

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042015\  
 Data File : BF078666.D  
 Acq On : 21 Apr 2015 4:20  
 Operator : TP/IZ  
 Sample : G1943-01MS 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Quant Time: Apr 21 05:05:53 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 21 03:43:19 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 5.85  | 152  | 28059    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.02  | 136  | 114168   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.20 | 164  | 57453    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 13.93 | 188  | 111622   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 17.79 | 240  | 116525   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 19.47 | 264  | 118044   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |       |       |    |       |
|--------------------------|-------|-----|-------|-------|----|-------|
| 5) 2-Fluorophenol        | 3.87  | 112 | 32492 | 19.09 | ng | 0.00  |
| 7) Phenol-d6             | 5.36  | 99  | 47775 | 22.40 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 6.79  | 82  | 27879 | 14.80 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 12.67 | 330 | 12768 | 26.80 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 10.02 | 172 | 68401 | 17.02 | ng | -0.01 |
| 78) Terphenyl-d14        | 16.46 | 244 | 76950 | 14.92 | ng | -0.01 |

## Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 1.44  | 88  | 1933  | 2.51  | ng | # 1    |
| 3) Pyridine                    | 1.98  | 79  | 7874  | 3.91  | ng | # 59   |
| 6) Aniline                     | 5.35  | 93  | 14391 | 4.76  | ng | # 86   |
| 8) 2-Chlorophenol              | 5.52  | 128 | 13929 | 6.92  | ng | 95     |
| 10) Phenol                     | 5.38  | 94  | 17435 | 6.82  | ng | 84     |
| 11) bis(2-Chloroethyl)ether    | 5.48  | 93  | 13107 | 7.13  | ng | 99     |
| 12) 1,3-Dichlorobenzene        | 5.75  | 146 | 13953 | 6.31  | ng | 96     |
| 13) 1,4-Dichlorobenzene        | 5.88  | 146 | 14250 | 6.40  | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 6.11  | 146 | 14040 | 6.73  | ng | 97     |
| 15) Benzyl Alcohol             | 6.14  | 79  | 11084 | 7.40  | ng | 89     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.38  | 45  | 17843 | 7.28  | ng | 70     |
| 17) 2-Methylphenol             | 6.36  | 107 | 11323 | 7.25  | ng | 94     |
| 18) Hexachloroethane           | 6.66  | 117 | 4546  | 6.06  | ng | # 81   |
| 19) n-Nitroso-di-n-propylamine | 6.58  | 70  | 10469 | 7.44  | ng | 93     |
| 20) 3+4-Methylphenols          | 6.64  | 107 | 14393 | 6.91  | ng | 97     |
| 22) Acetophenone               | 6.56  | 105 | 20008 | 7.52  | ng | # 95   |
| 24) Nitrobenzene               | 6.82  | 77  | 14480 | 7.35  | ng | # 78   |
| 25) Isophorone                 | 7.26  | 82  | 27505 | 7.69  | ng | 97     |
| 26) 2-Nitrophenol              | 7.38  | 139 | 6474  | 6.90  | ng | 97     |
| 27) 2,4-Dimethylphenol         | 7.54  | 122 | 13360 | 7.66  | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.69  | 93  | 17943 | 7.83  | ng | 97     |
| 29) 2,4-Dichlorophenol         | 7.84  | 162 | 11994 | 7.56  | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 7.94  | 180 | 13415 | 7.37  | ng | 99     |
| 31) Naphthalene                | 8.06  | 128 | 45874 | 7.72  | ng | 99     |
| 33) 4-Chloroaniline            | 8.22  | 127 | 14768 | 5.99  | ng | 98     |
| 34) Hexachlorobutadiene        | 8.31  | 225 | 7447  | 7.45  | ng | 94     |
| 35) Caprolactam                | 8.81  | 113 | 2116  | 4.47  | ng | 92     |
| 36) 4-Chloro-3-methylphenol    | 9.18  | 107 | 13131 | 8.20  | ng | # 84   |
| 37) 2-Methylnaphthalene        | 9.31  | 142 | 32051 | 7.94  | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.62  | 216 | 14102 | 7.92  | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 9.61  | 237 | 3773  | 11.32 | ng | 92     |
| 42) 2,4,6-Trichlorophenol      | 9.87  | 196 | 8997  | 8.01  | ng | 98     |
| 43) 2,4,5-Trichlorophenol      | 9.95  | 196 | 9500  | 8.10  | ng | # 91   |
| 45) 1,1'-Biphenyl              | 10.19 | 154 | 39263 | 8.35  | ng | 96     |

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 ALS Vial : 19 Sample Multiplier: 1

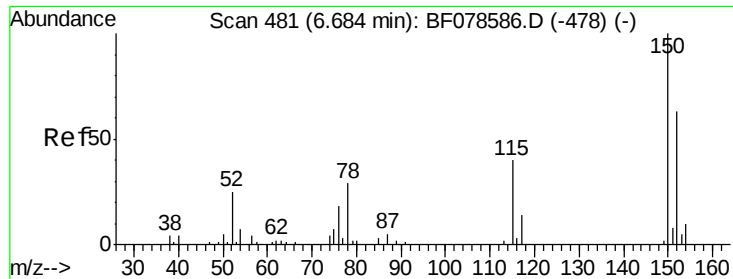
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Quant Time: Apr 21 05:05:53 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
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 QLast Update : Tue Apr 21 03:43:19 2015  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 46) 2-Chloronaphthalene        | 10.19 | 162  | 29975    | 8.11  | ng    | 98       |
| 47) 2-Nitroaniline             | 10.44 | 65   | 6891     | 7.53  | ng    | # 70     |
| 48) Acenaphthylene             | 10.94 | 152  | 50876    | 8.52  | ng    | 99       |
| 49) Dimethylphthalate          | 10.83 | 163  | 54267    | 12.57 | ng    | # 97     |
| 50) 2,6-Dinitrotoluene         | 10.92 | 165  | 7061     | 7.95  | ng    | # 55     |
| 51) Acenaphthene               | 11.26 | 154  | 30369    | 9.03  | ng    | 99       |
| 52) 3-Nitroaniline             | 11.21 | 138  | 6883     | 6.82  | ng    | # 84     |
| 54) Dibenzofuran               | 11.59 | 168  | 46539    | 9.06  | ng    | 99       |
| 55) 4-Nitrophenol              | 11.66 | 139  | 6397     | 11.07 | ng    | # 73     |
| 56) 2,4-Dinitrotoluene         | 11.67 | 165  | 8918     | 7.75  | ng    | # 87     |
| 57) Fluorene                   | 12.22 | 166  | 39863    | 9.58  | ng    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 11.86 | 232  | 6401     | 7.36  | ng    | # 93     |
| 59) Diethylphthalate           | 12.16 | 149  | 35191    | 8.46  | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 12.28 | 204  | 16475    | 8.60  | ng    | # 87     |
| 61) 4-Nitroaniline             | 12.33 | 138  | 6664     | 6.53  | ng    | 89       |
| 62) Azobenzene                 | 12.57 | 77   | 34102    | 8.98  | ng    | 90       |
| 64) 4,6-Dinitro-2-methylphenol | 12.41 | 198  | 1038     | 10.10 | ng    | 98       |
| 65) n-Nitrosodiphenylamine     | 12.51 | 169  | 30704    | 7.95  | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 13.18 | 248  | 9565     | 8.09  | ng    | 97       |
| 67) Hexachlorobenzene          | 13.22 | 284  | 10233    | 7.90  | ng    | 99       |
| 68) Atrazine                   | 13.59 | 200  | 9734     | 8.70  | ng    | 95       |
| 69) Pentachlorophenol          | 13.63 | 266  | 2616     | 11.87 | ng    | # 90     |
| 70) Phenanthrene               | 13.98 | 178  | 160642   | 24.88 | ng    | 100      |
| 71) Anthracene                 | 14.07 | 178  | 79219    | 12.45 | ng    | 99       |
| 72) Carbazole                  | 14.40 | 167  | 56449    | 9.47  | ng    | 99       |
| 73) Di-n-butylphthalate        | 15.09 | 149  | 58205    | 8.62  | ng    | 99       |
| 74) Fluoranthene               | 15.86 | 202  | 284322   | 41.76 | ng    | 95       |
| 76) Benzidine                  | 16.13 | 184  | 17831    | 3.97  | ng    | 98       |
| 77) Pyrene                     | 16.17 | 202  | 262076   | 35.83 | ng    | 96       |
| 79) Butylbenzylphthalate       | 17.15 | 149  | 25567    | 9.17  | ng    | 98       |
| 80) Benzo(a)anthracene         | 17.78 | 228  | 153645   | 22.16 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 17.79 | 252  | 18732    | 8.07  | ng    | # 98     |
| 82) Chrysene                   | 17.83 | 228  | 134882   | 20.71 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 17.92 | 149  | 38459    | 8.80  | ng    | # 96     |
| 84) Di-n-octyl phthalate       | 18.70 | 149  | 67238    | 9.36  | ng    | # 100    |
| 85) Indeno(1,2,3-cd)pyrene     | 20.63 | 276  | 111181   | 15.04 | ng    | # 86     |
| 87) Benzo(b)fluoranthene       | 19.06 | 252  | 248497   | 34.06 | ng    | # 96     |
| 88) Benzo(k)fluoranthene       | 19.06 | 252  | 249452   | 38.48 | ng    | # 96     |
| 89) Benzo(a)pyrene             | 19.42 | 252  | 122961   | 19.31 | ng    | # 97     |
| 90) Dibenzo(a,h)anthracene     | 20.65 | 278  | 59492    | 9.33  | ng    | 98       |
| 91) Benzo(g,h,i)perylene       | 20.94 | 276  | 94084    | 14.72 | ng    | 98       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.85 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

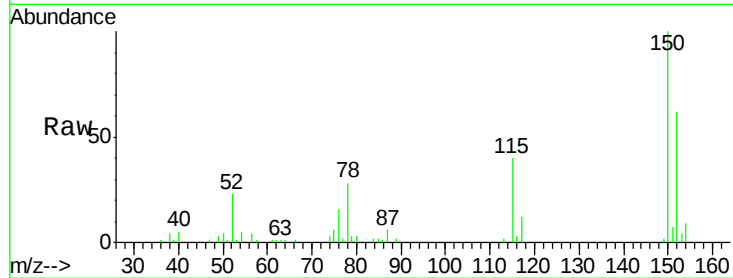
Tgt Ion:152 Resp: 28059

Ion Ratio Lower Upper

152 100

150 161.5 125.9 188.9

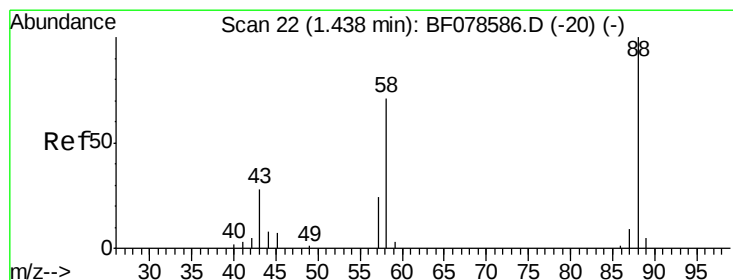
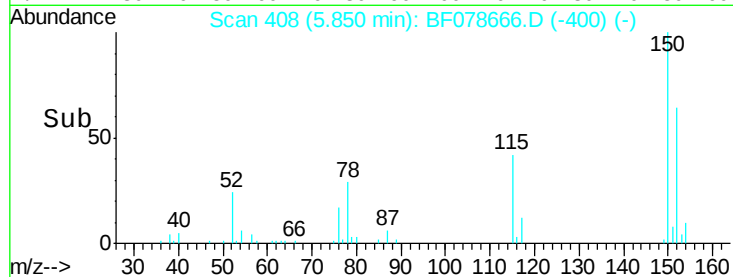
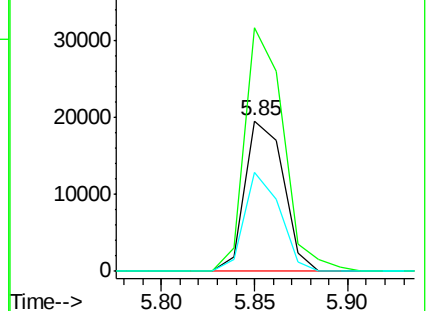
115 65.3 52.7 79.1



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: 2.51 ng

RT: 1.44 min Scan# 22

Delta R.T. 0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

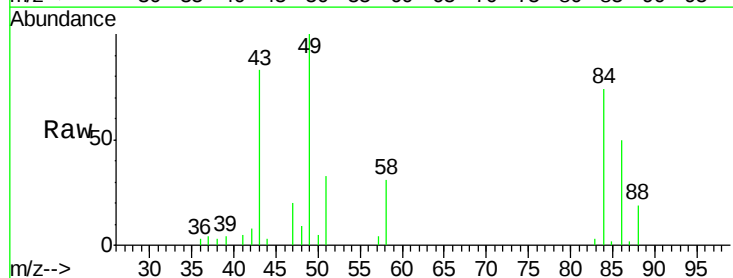
Tgt Ion: 88 Resp: 1933

Ion Ratio Lower Upper

88 100

58 485.3 56.9 85.3#

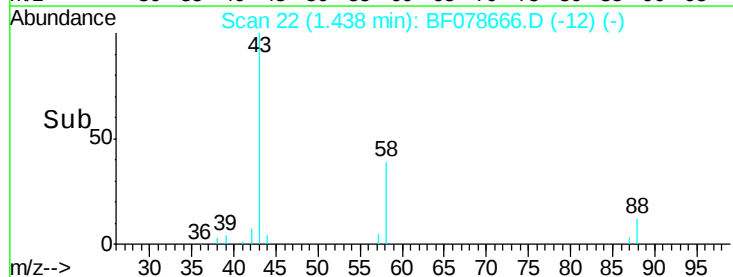
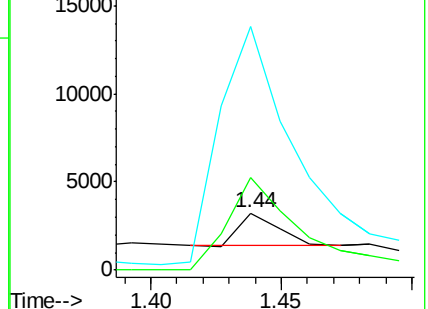
43 1364.5 21.4 32.2#

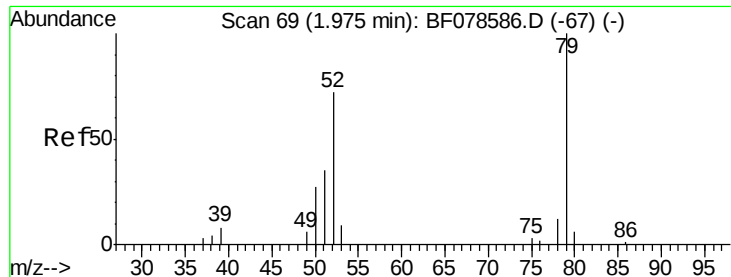


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 3.91 ng

RT: 1.98 min Scan# 69

Delta R.T. 0.07 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampled :

SP-A-1MS

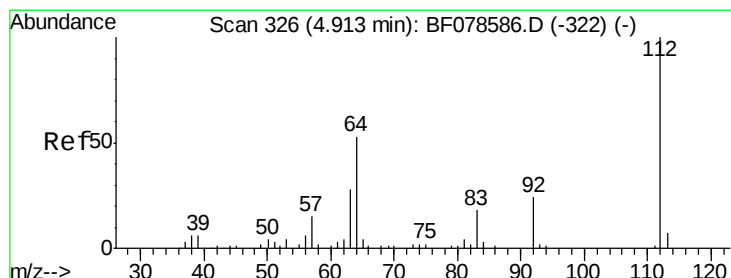
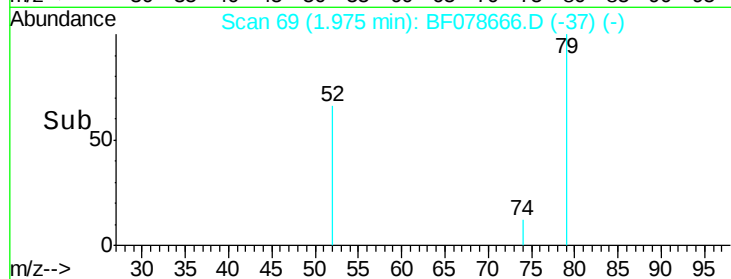
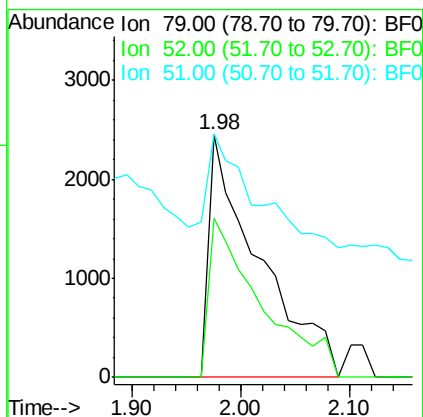
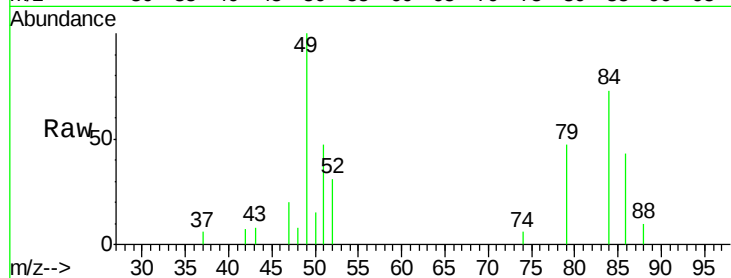
Tgt Ion: 79 Resp: 7874

Ion Ratio Lower Upper

79 100

52 65.5 52.4 78.6

51 100.4 24.9 37.3#



#5

2-Fluorophenol

Concen: 19.09 ng

RT: 3.87 min Scan# 235

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

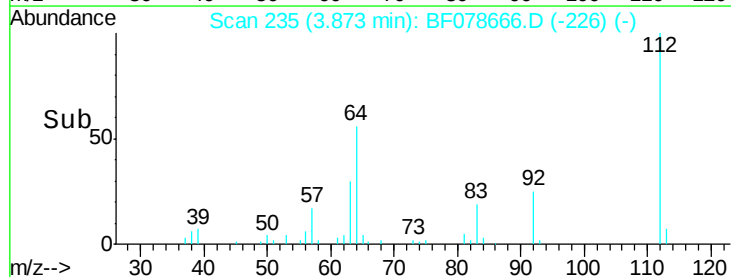
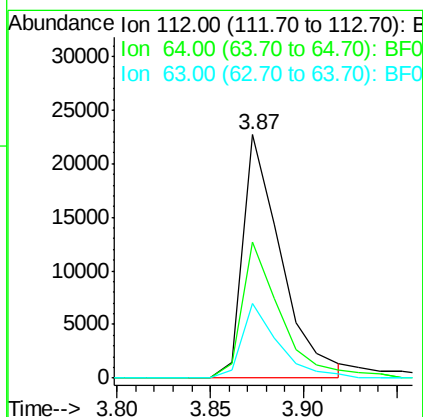
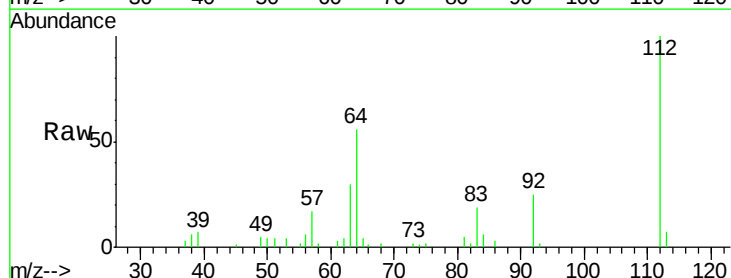
Tgt Ion: 112 Resp: 32492

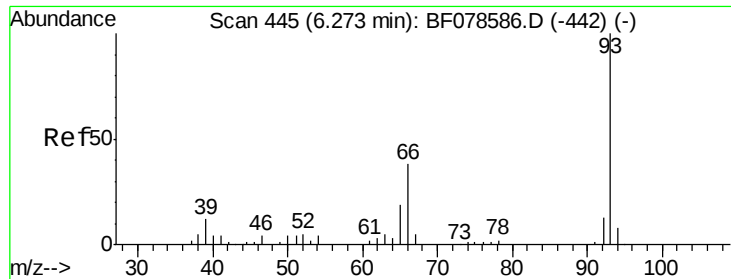
Ion Ratio Lower Upper

112 100

64 56.0 39.9 59.9

63 30.5 20.2 30.4#





#6

Aniline

Concen: 4.76 ng

RT: 5.35 min Scan# 364

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

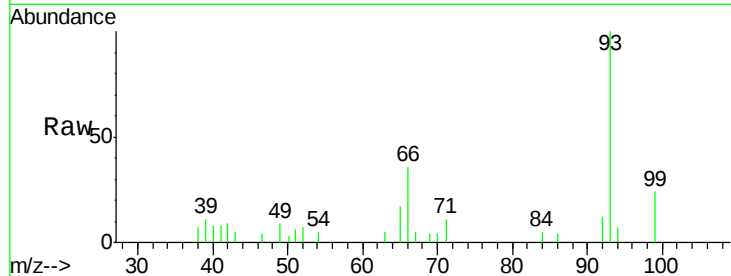
Tgt Ion: 93 Resp: 14391

Ion Ratio Lower Upper

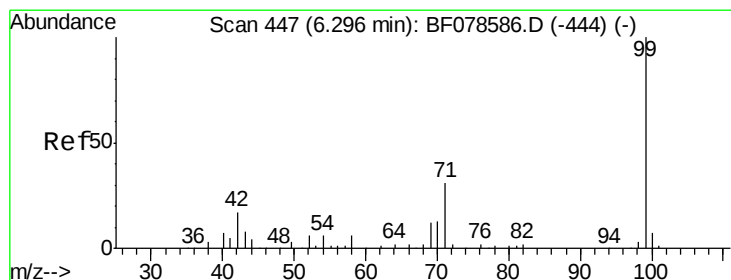
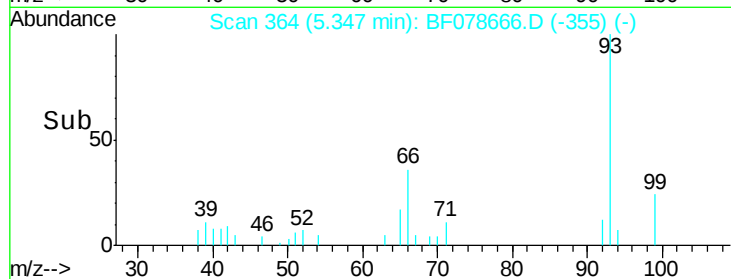
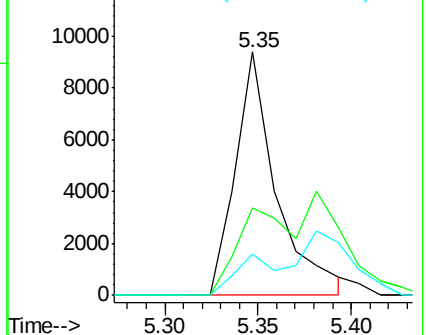
93 100

66 36.1 38.0 57.0#

65 17.0 16.3 24.5



Abundance Ion 93.00 (92.70 to 93.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 22.40 ng

RT: 5.36 min Scan# 365

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

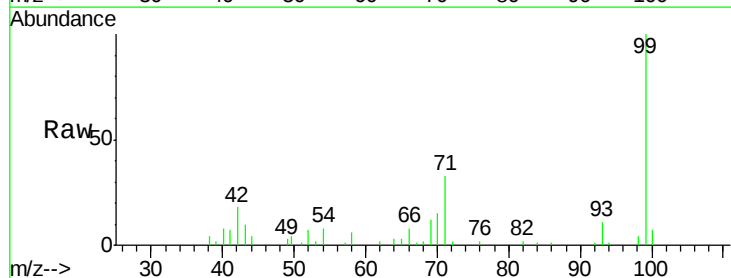
Tgt Ion: 99 Resp: 47775

Ion Ratio Lower Upper

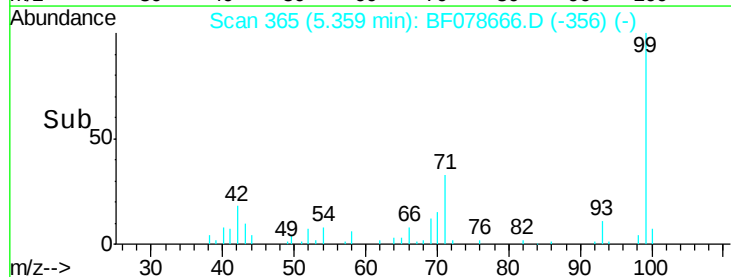
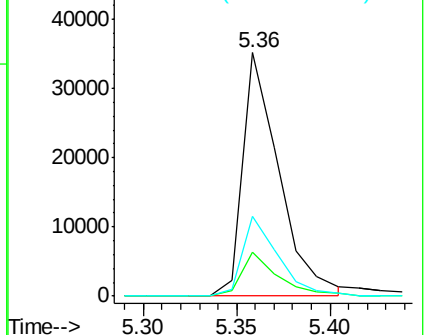
99 100

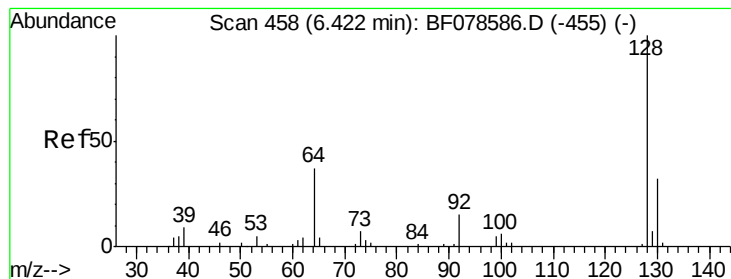
42 18.0 14.8 22.2

71 32.8 26.6 39.8



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





#8

2-Chlorophenol

Concen: 6.92 ng

RT: 5.52 min Scan# 379

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

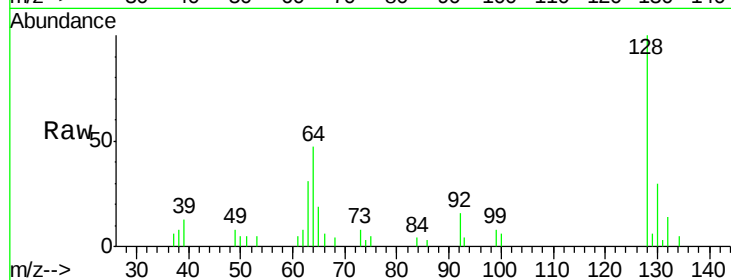
Tgt Ion: 128 Resp: 13929

Ion Ratio Lower Upper

128 100

130 29.9 12.3 52.3

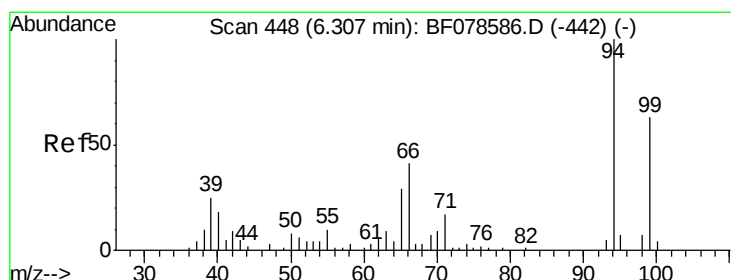
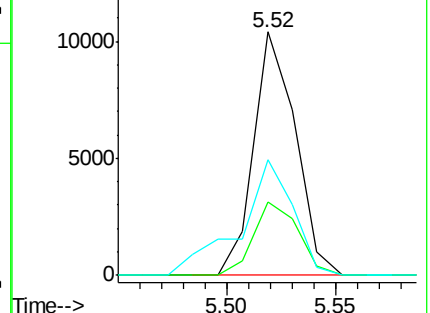
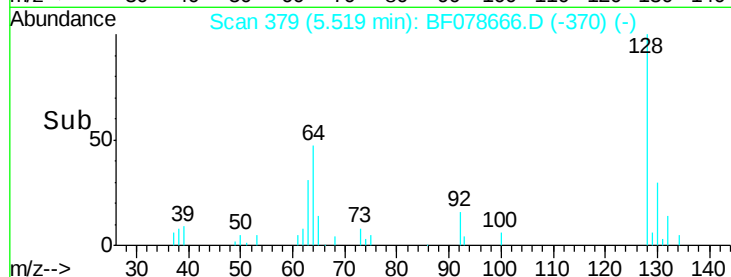
64 47.4 23.8 63.8



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0



#10

Phenol

Concen: 6.82 ng

RT: 5.38 min Scan# 367

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

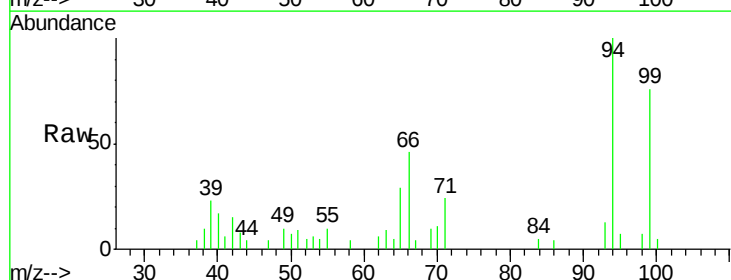
Tgt Ion: 94 Resp: 17435

Ion Ratio Lower Upper

94 100

65 28.7 4.9 44.9

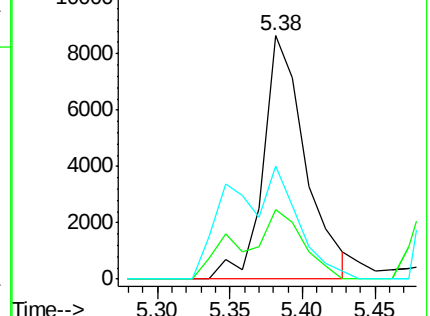
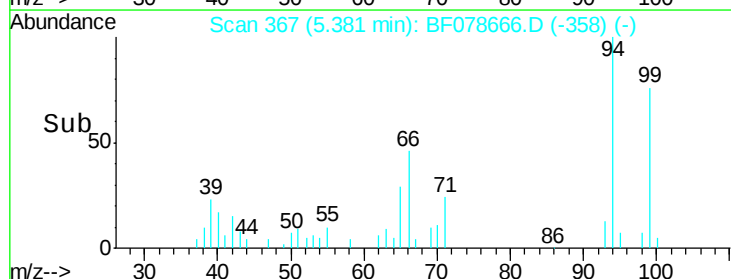
66 46.2 13.8 53.8

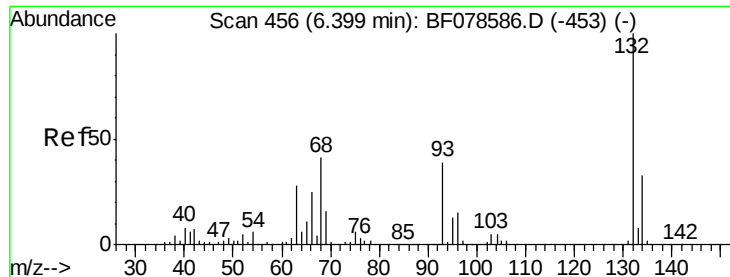


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

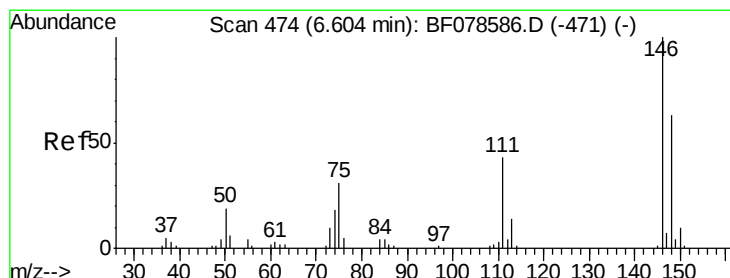
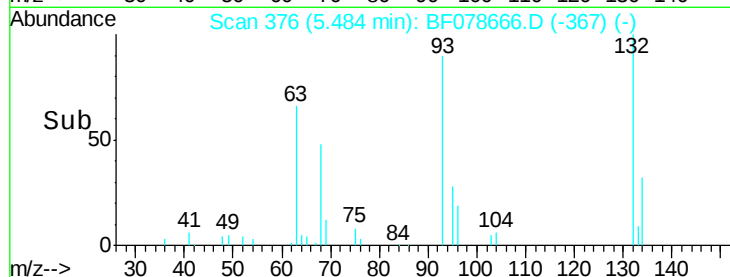
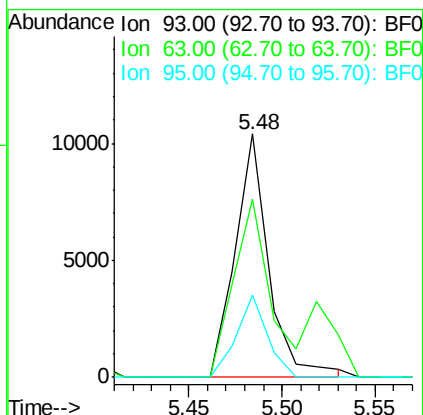
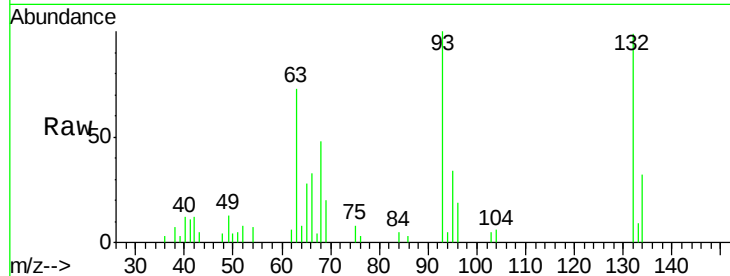




#11  
bis(2-Chloroethyl)ether  
Concen: 7.13 ng  
RT: 5.48 min Scan# 376  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

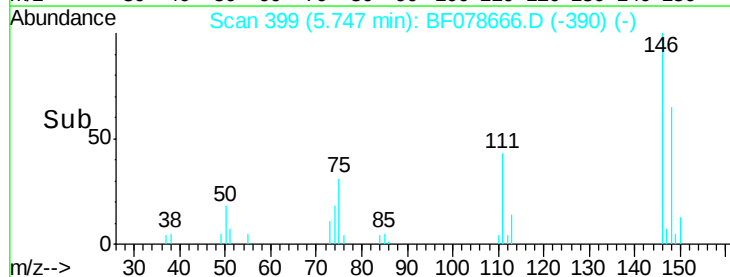
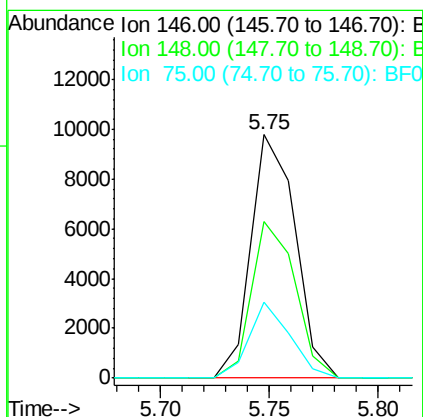
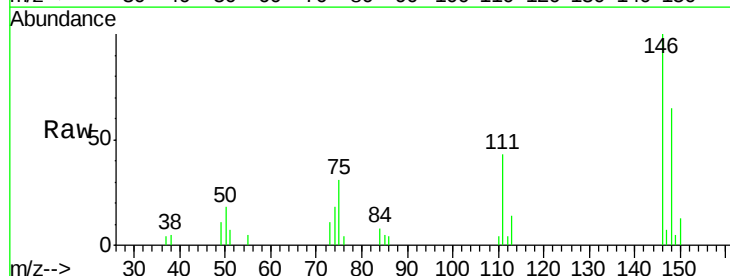
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

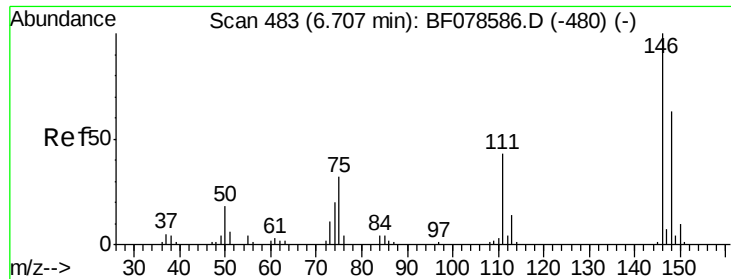
Tgt Ion: 93 Resp: 13107  
Ion Ratio Lower Upper  
93 100  
63 73.3 54.6 94.6  
95 33.6 13.6 53.6



#12  
1,3-Dichlorobenzene  
Concen: 6.31 ng  
RT: 5.75 min Scan# 399  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion: 146 Resp: 13953  
Ion Ratio Lower Upper  
146 100  
148 64.5 49.1 73.7  
75 31.2 26.6 40.0

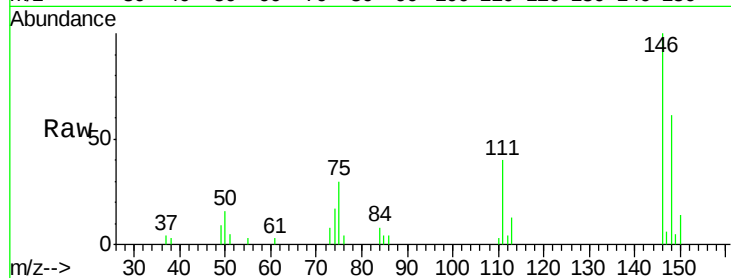




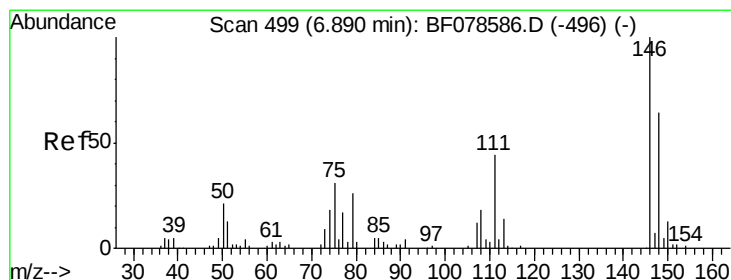
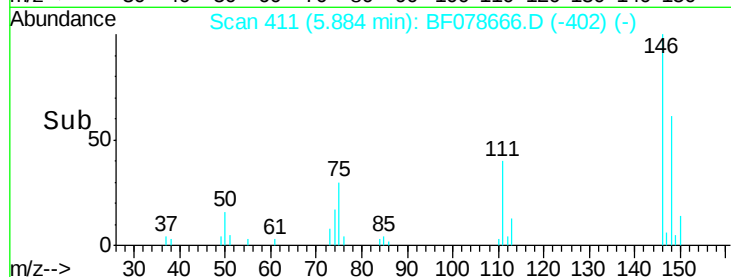
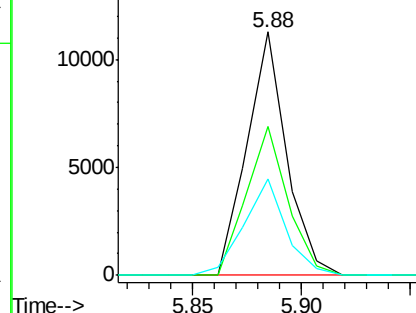
#13  
 1,4-Dichlorobenzene  
 Concen: 6.40 ng  
 RT: 5.88 min Scan# 411  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Tgt Ion:146 Resp: 14250  
 Ion Ratio Lower Upper  
 146 100  
 148 61.3 51.4 77.0  
 111 39.8 35.0 52.4

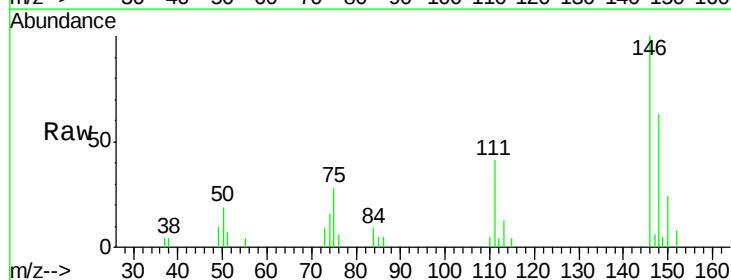


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

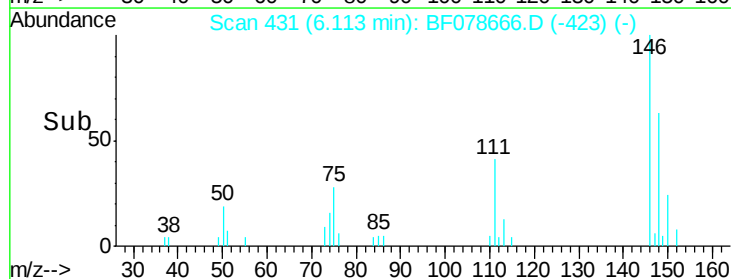
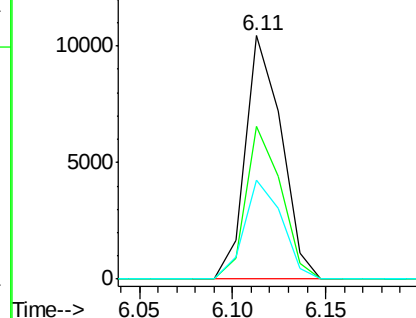


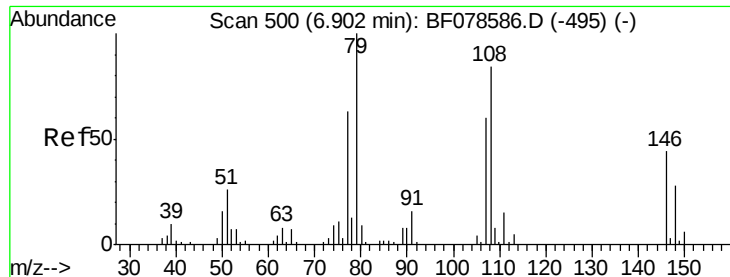
#14  
 1,2-Dichlorobenzene  
 Concen: 6.73 ng  
 RT: 6.11 min Scan# 431  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:146 Resp: 14040  
 Ion Ratio Lower Upper  
 146 100  
 148 62.6 50.2 75.4  
 111 40.9 36.1 54.1



Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 7.40 ng

RT: 6.14 min Scan# 433

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

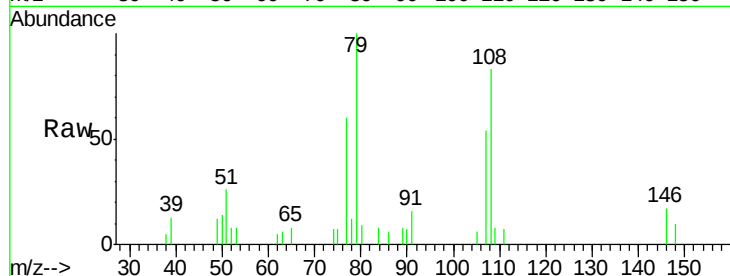
Tgt Ion: 79 Resp: 11084

Ion Ratio Lower Upper

79 100

108 83.4 57.6 86.4

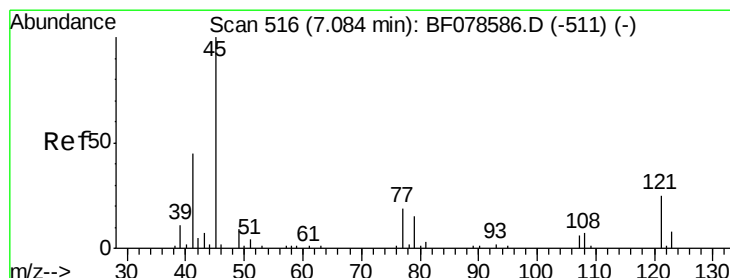
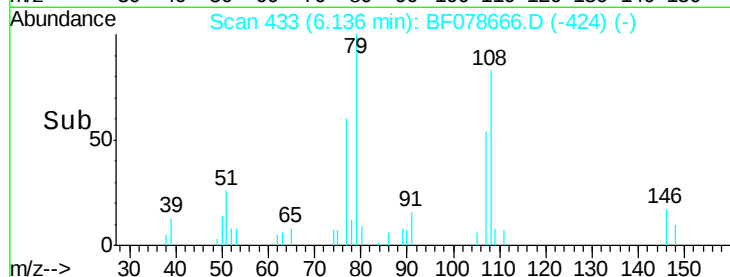
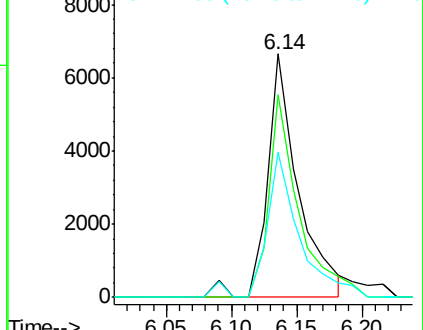
77 59.7 53.5 80.3



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



#16

2,2'-oxybis(1-Chloropropane)

Concen: 7.28 ng

RT: 6.38 min Scan# 454

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

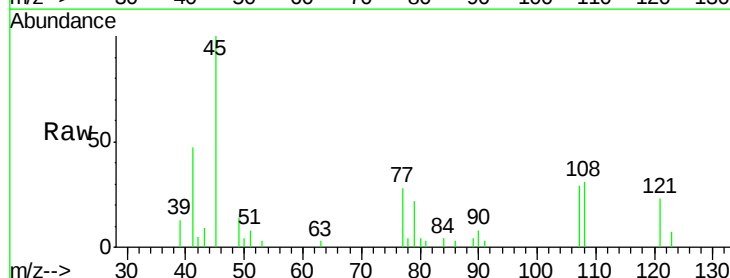
Tgt Ion: 45 Resp: 17843

Ion Ratio Lower Upper

45 100

77 27.9 0.0 34.5

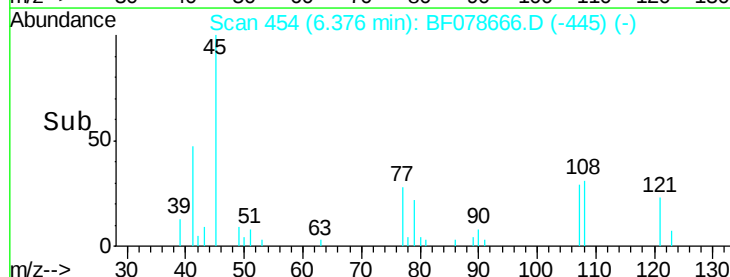
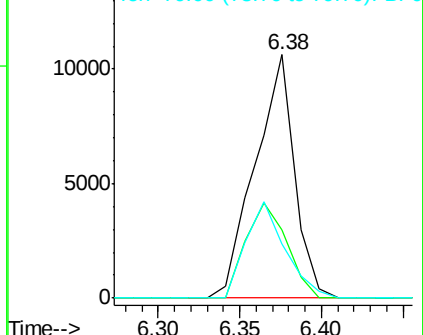
79 22.0 0.0 31.9

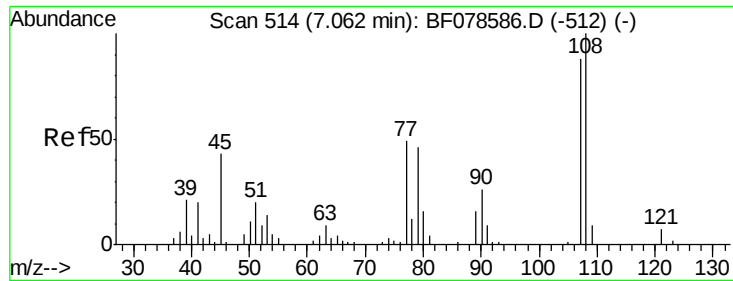


Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

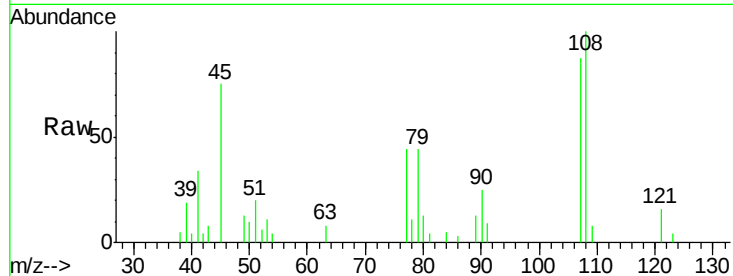




#17  
2-Methylphenol  
Concen: 7.25 ng  
RT: 6.36 min Scan# 453  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 114.8 | 90.3  | 135.5 |
| 77      | 50.8  | 35.5  | 53.3  |
| 79      | 50.9  | 34.2  | 51.4  |



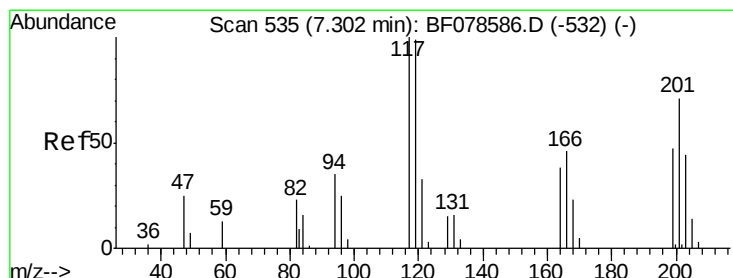
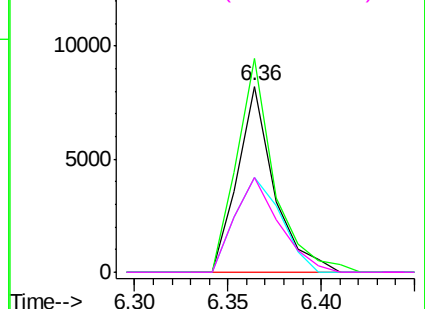
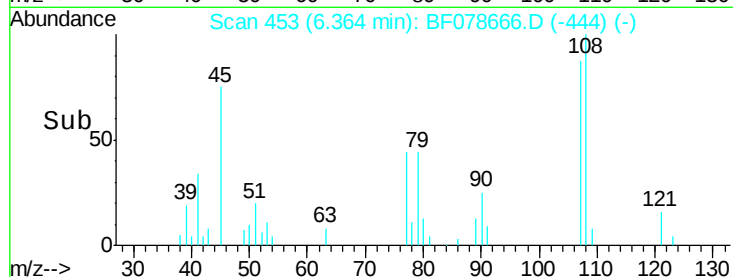
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

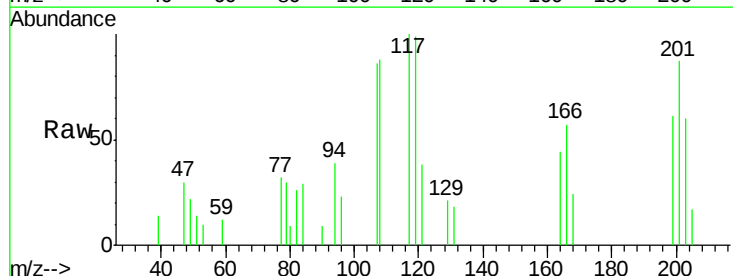
Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18  
Hexachloroethane  
Concen: 6.06 ng  
RT: 6.66 min Scan# 479  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 99.4  | 77.0  | 115.6  |
| 201     | 86.6  | 98.1  | 147.1# |

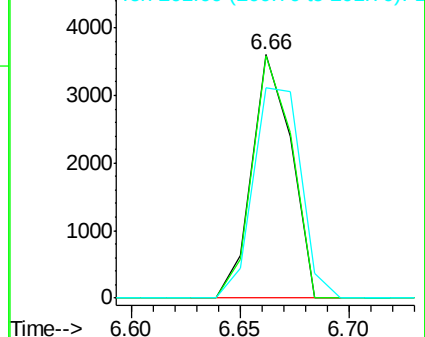
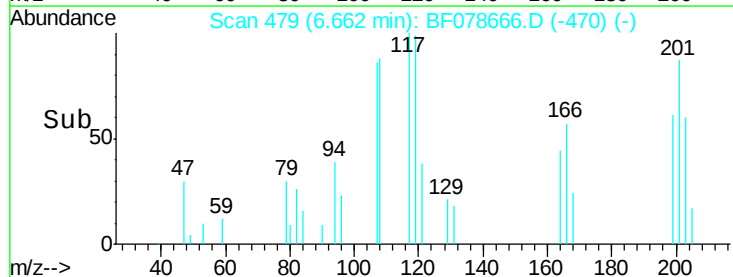


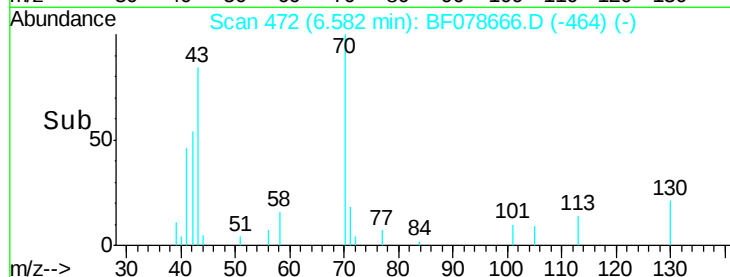
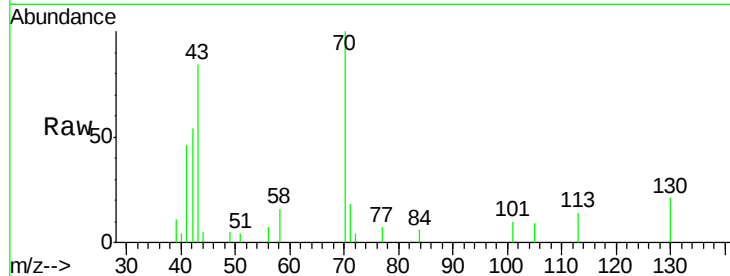
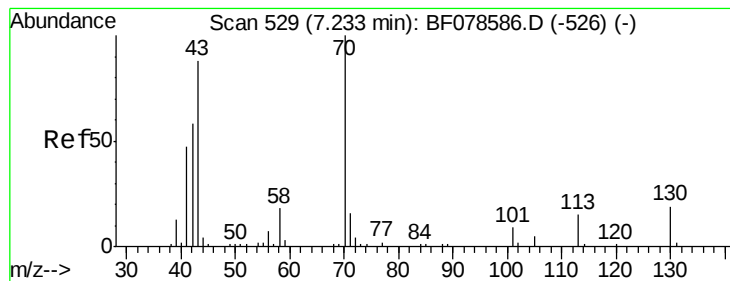
Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 7.44 ng

RT: 6.58 min Scan# 472

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

Tgt Ion: 70 Resp: 10469

Ion Ratio Lower Upper

70 100

42 54.3 38.9 58.3

101 9.7 8.3 12.5

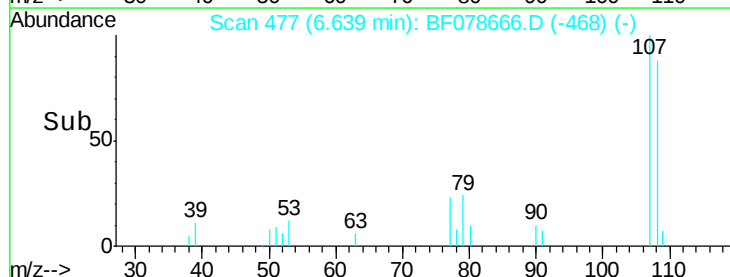
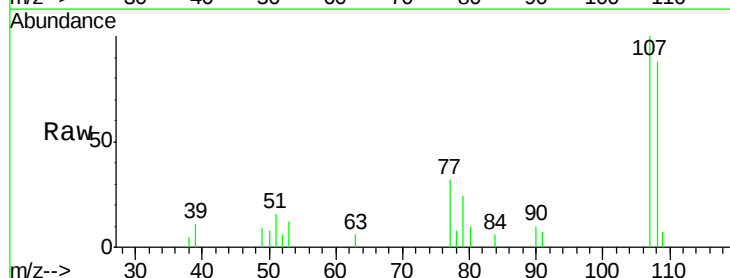
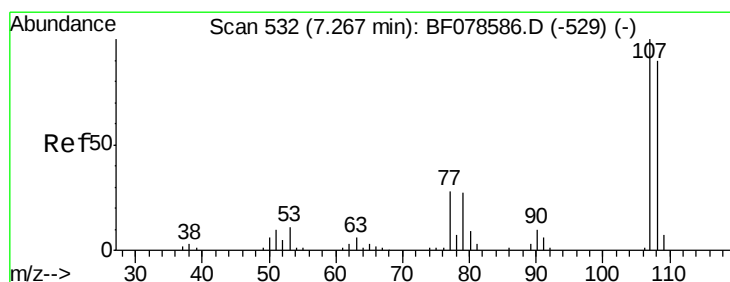
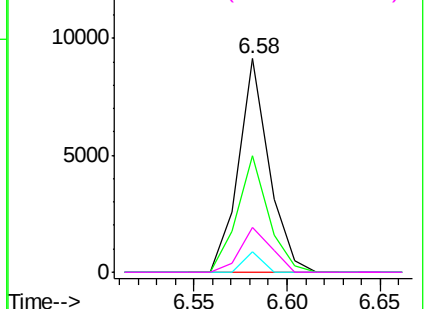
130 20.9 19.8 29.8

Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#20

3+4-Methylphenols

Concen: 6.91 ng

RT: 6.64 min Scan# 477

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Tgt Ion: 107 Resp: 14393

Ion Ratio Lower Upper

107 100

108 88.3 64.4 104.4

77 31.7 9.7 49.7

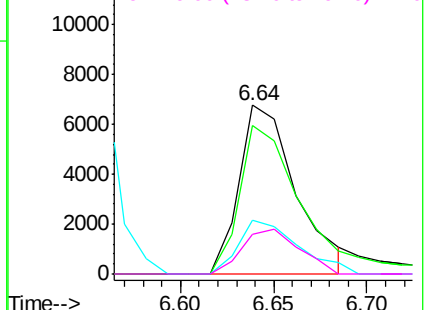
79 23.9 4.0 44.0

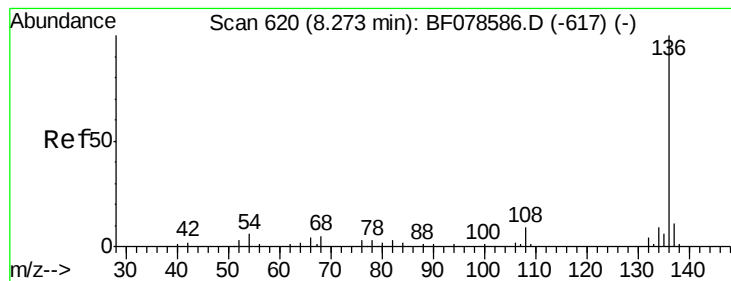
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 598

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

Tgt Ion:136 Resp: 114168

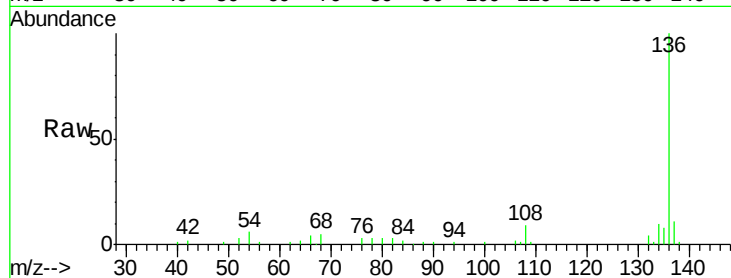
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.4

54 6.0 7.0 10.6#

68 4.9 5.4 8.2#

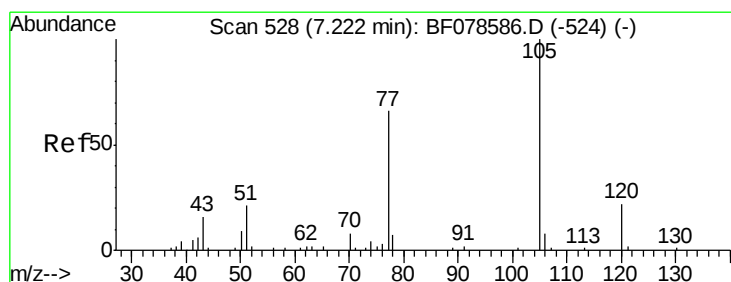
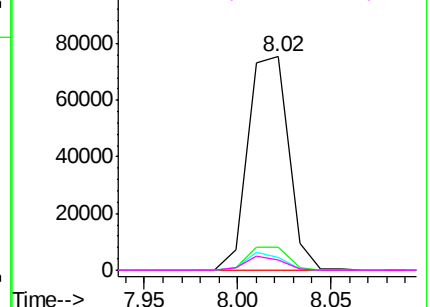
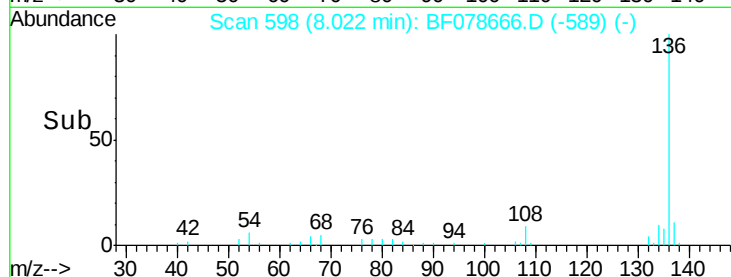


Abundance Ion 136.00 (135.70 to 136.70): E

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: 7.52 ng

RT: 6.56 min Scan# 470

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Tgt Ion:105 Resp: 20008

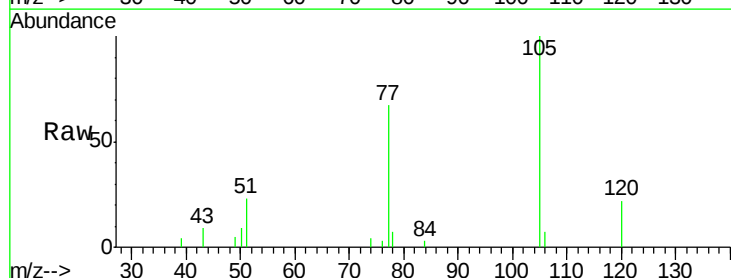
Ion Ratio Lower Upper

105 100

71 0.0 5.5 8.3#

51 22.5 16.0 24.0

120 22.3 17.8 26.6

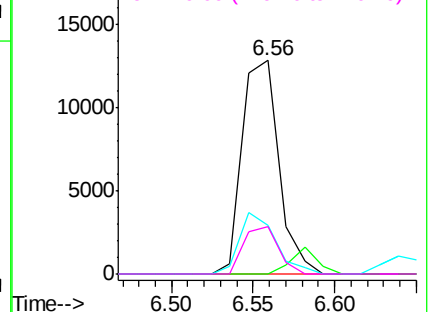
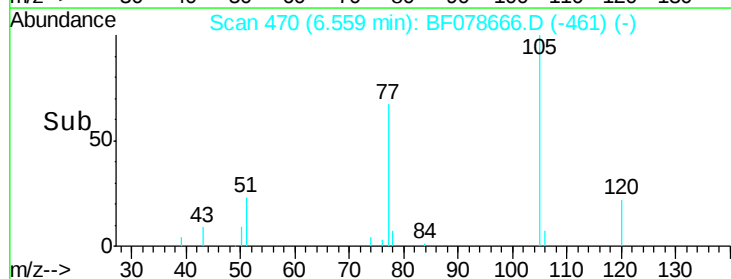


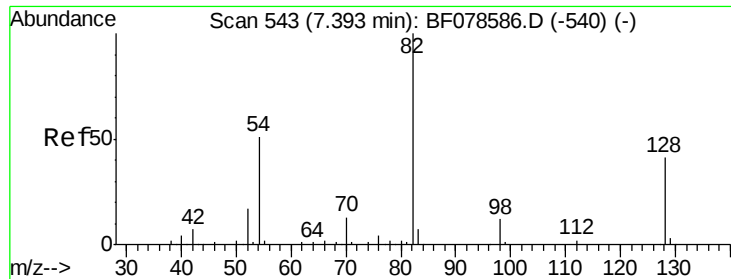
Abundance Ion 105.00 (104.70 to 105.70): E

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

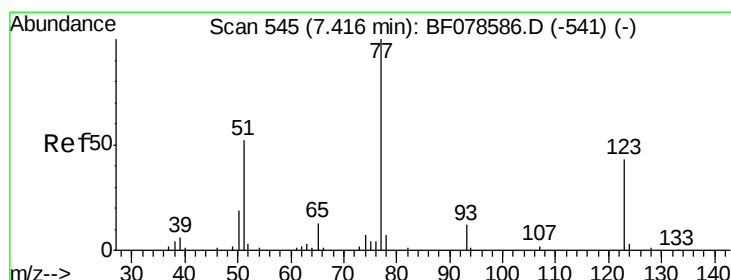
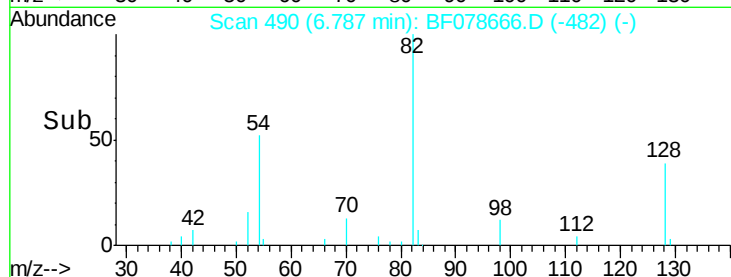
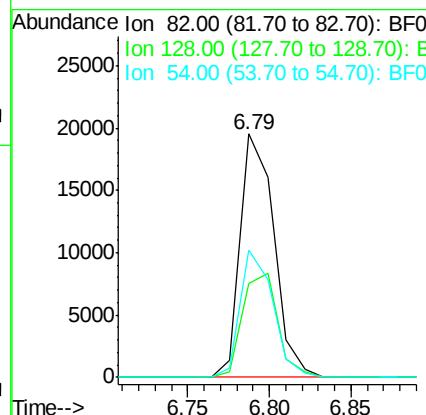
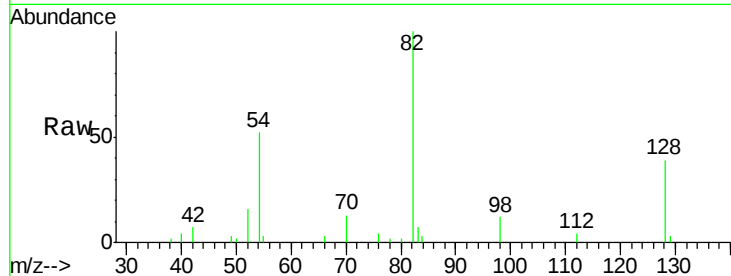




#23  
 Nitrobenzene-d5  
 Concen: 14.80 ng  
 RT: 6.79 min Scan# 490  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

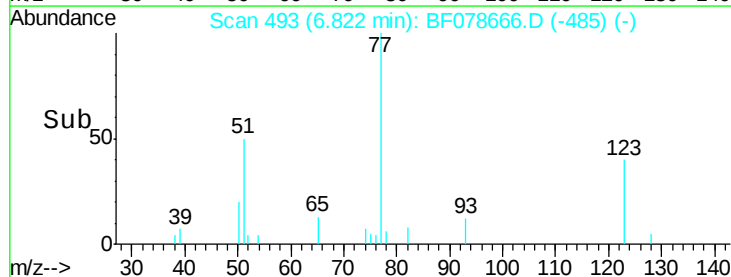
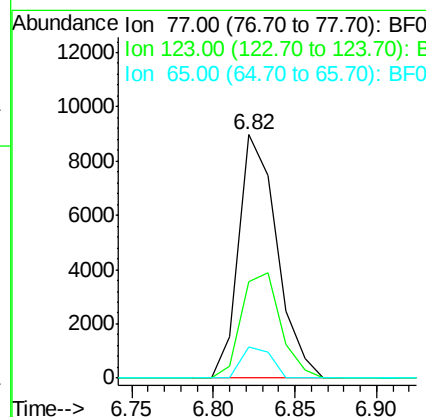
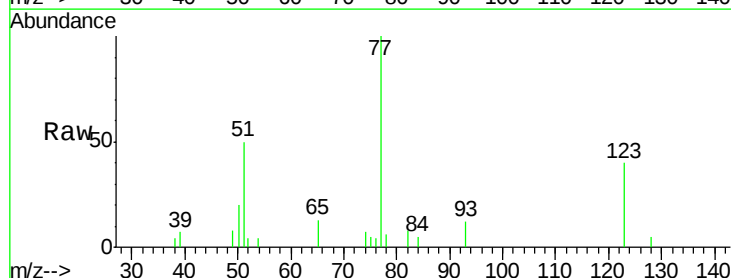
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

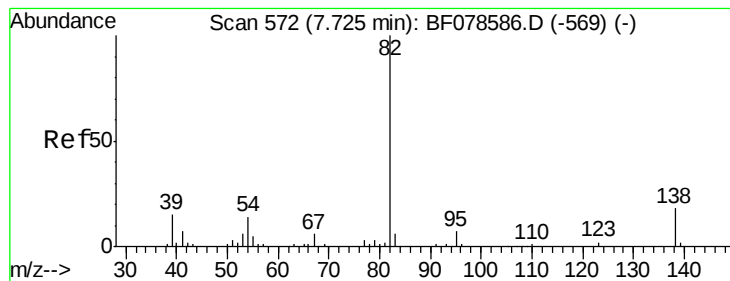
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.7  | 31.8  | 47.8  |
| 54      | 52.0  | 41.5  | 62.3  |



#24  
 Nitrobenzene  
 Concen: 7.35 ng  
 RT: 6.82 min Scan# 493  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 39.6  | 46.9  | 70.3# |
| 65      | 12.8  | 9.5   | 14.3  |





#25

Isophorone

Concen: 7.69 ng

RT: 7.26 min Scan# 531

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

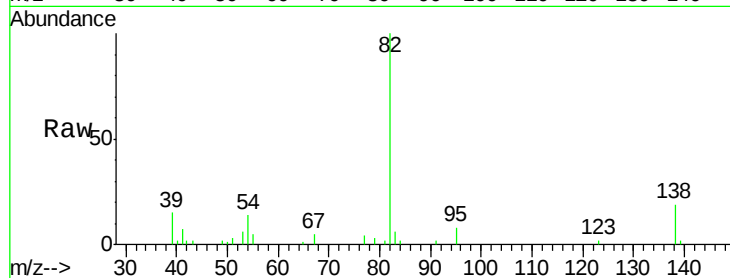
Tgt Ion: 82 Resp: 27505

Ion Ratio Lower Upper

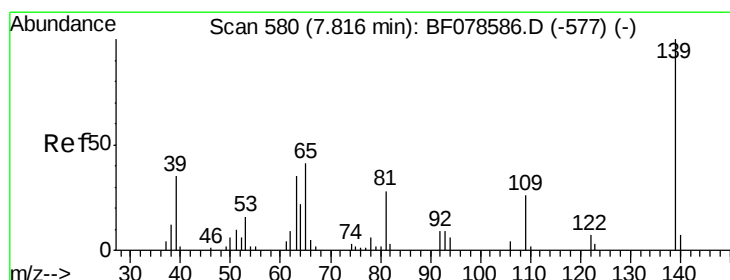
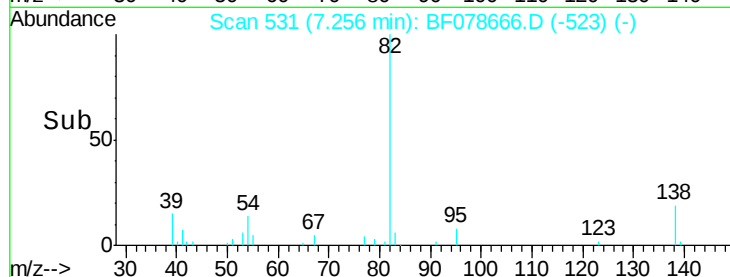
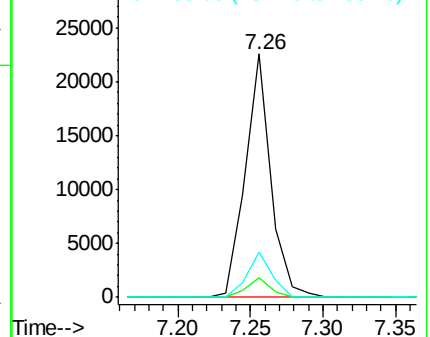
82 100

95 7.9 5.7 8.5

138 18.6 15.8 23.8



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 6.90 ng

RT: 7.38 min Scan# 542

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

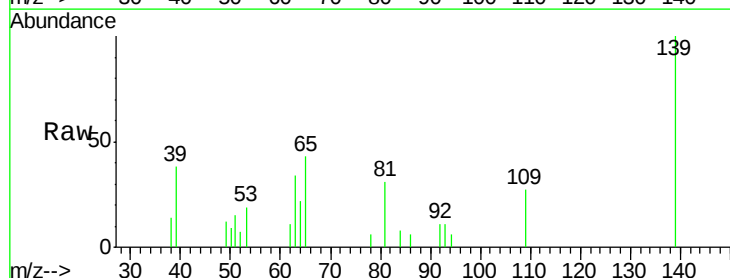
Tgt Ion: 139 Resp: 6474

Ion Ratio Lower Upper

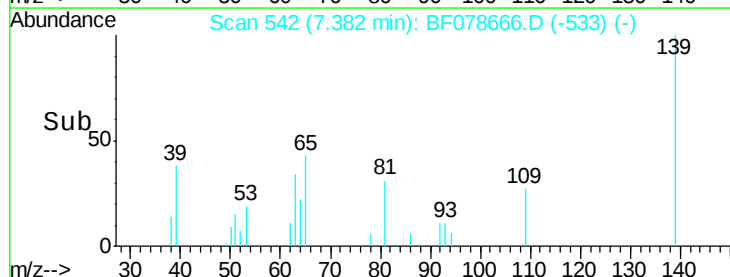
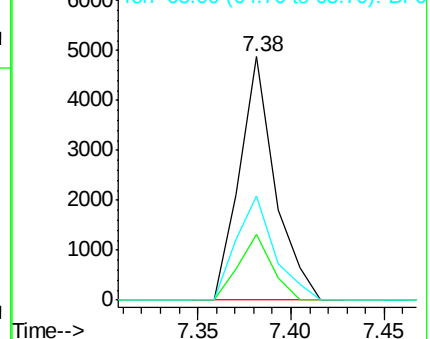
139 100

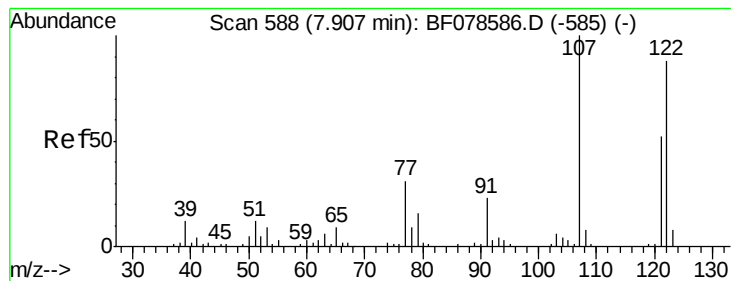
109 26.9 19.8 29.8

65 42.5 32.7 49.1



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

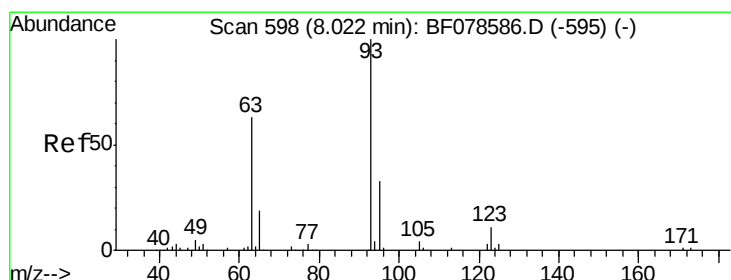
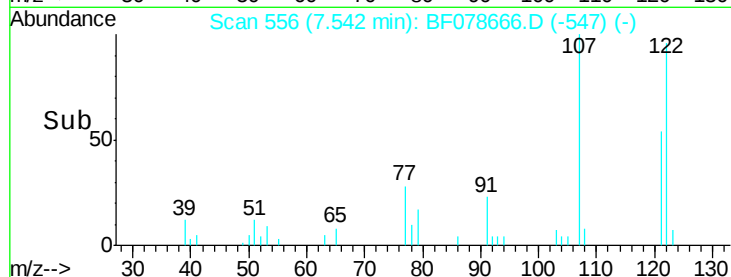
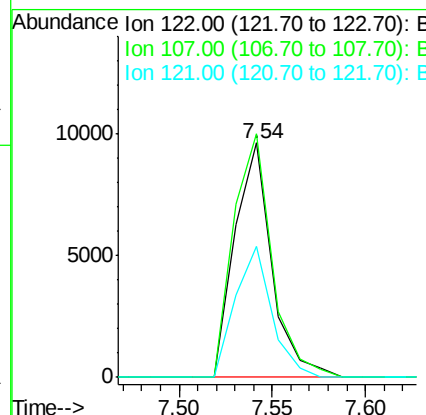
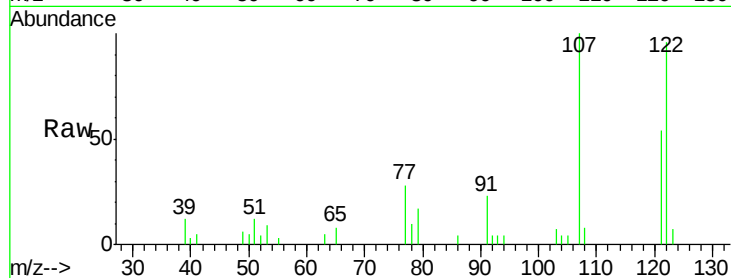




#27  
 2,4-Dimethylphenol  
 Concen: 7.66 ng  
 RT: 7.54 min Scan# 556  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

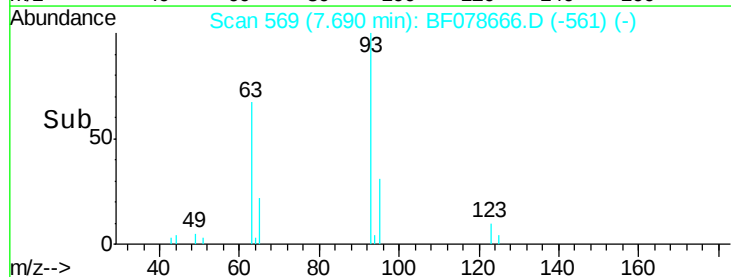
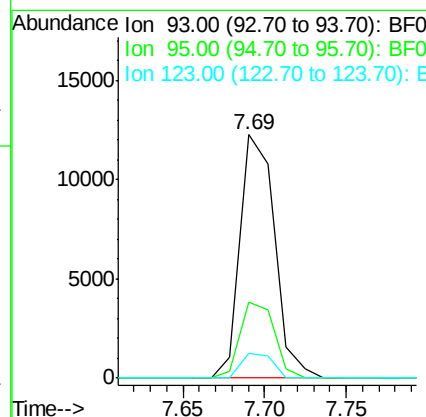
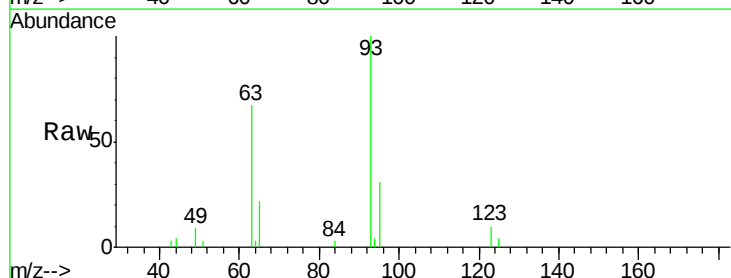
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

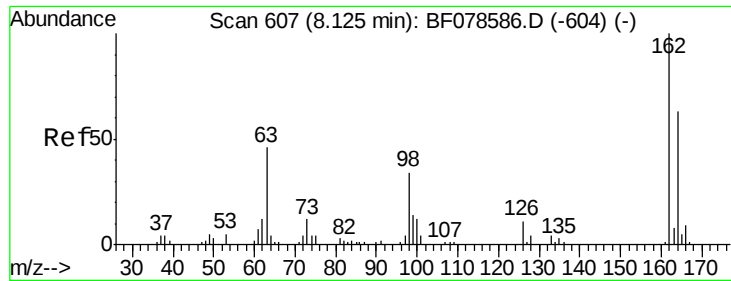
Tgt Ion: 122 Resp: 13360  
 Ion Ratio Lower Upper  
 122 100  
 107 103.9 84.6 127.0  
 121 56.1 46.0 69.0



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 7.83 ng  
 RT: 7.69 min Scan# 569  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion: 93 Resp: 17943  
 Ion Ratio Lower Upper  
 93 100  
 95 31.0 26.3 39.5  
 123 10.2 9.1 13.7

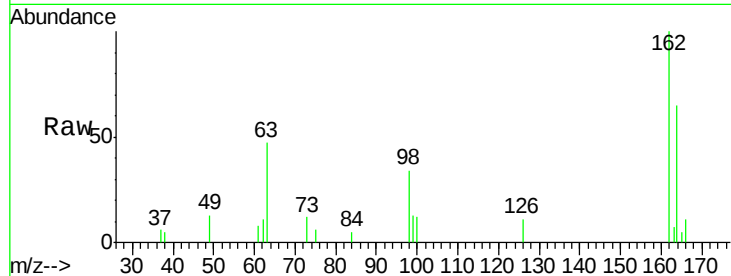




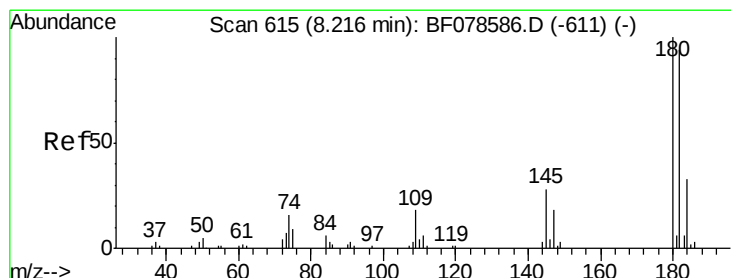
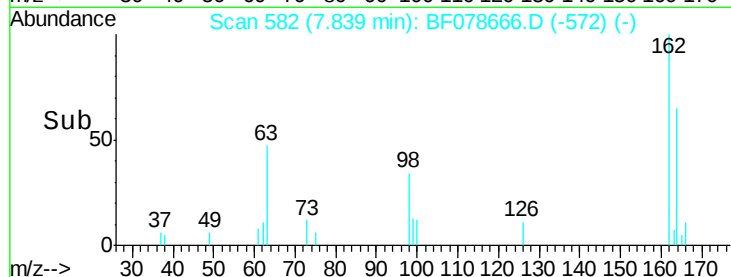
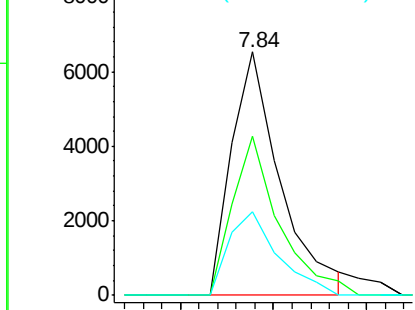
#29  
 2,4-Dichlorophenol  
 Concen: 7.56 ng  
 RT: 7.84 min Scan# 582  
 Delta R.T. 0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Tgt Ion:162 Resp: 11994  
 Ion Ratio Lower Upper  
 162 100  
 164 65.2 47.0 87.0  
 98 34.2 9.2 49.2

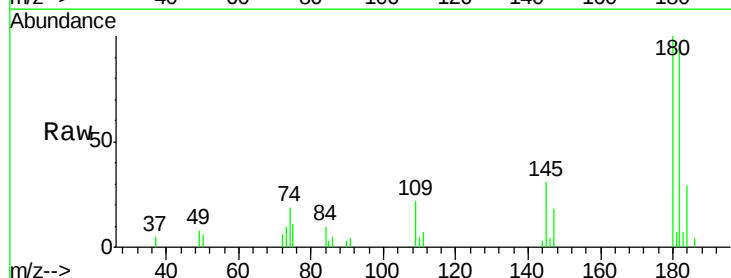


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 164.00 (163.70 to 164.70): E  
 Ion 98.00 (97.70 to 98.70): BF0

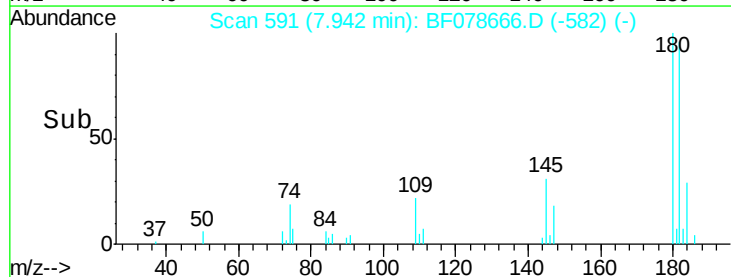
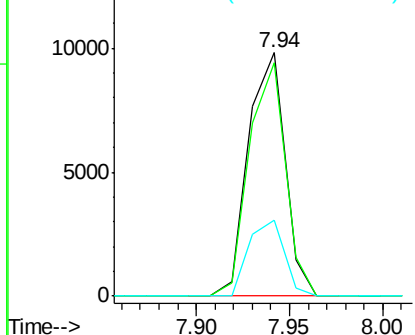


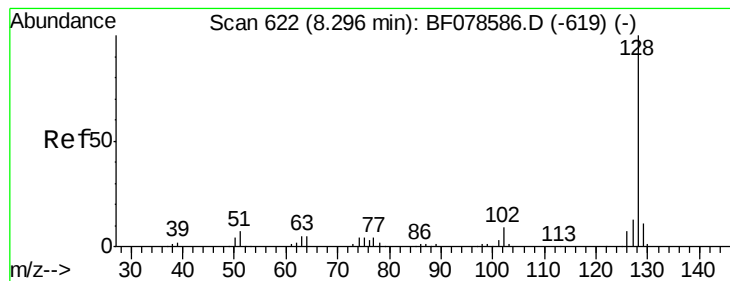
#30  
 1,2,4-Trichlorobenzene  
 Concen: 7.37 ng  
 RT: 7.94 min Scan# 591  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:180 Resp: 13415  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 76.9 115.3  
 145 31.1 22.5 33.7



Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 7.72 ng

RT: 8.06 min Scan# 601

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

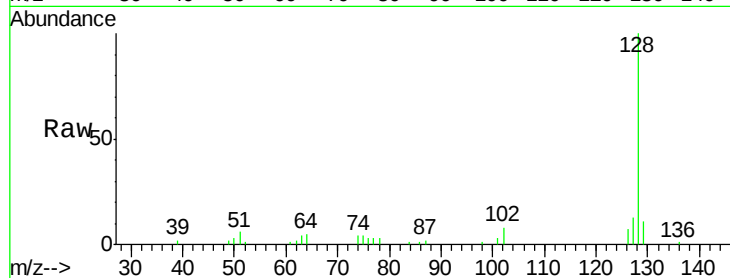
Tgt Ion:128 Resp: 45874

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

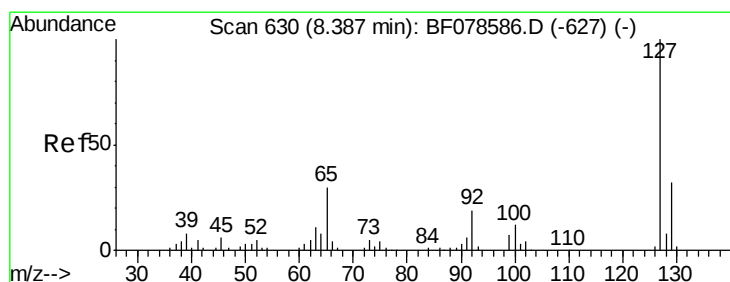
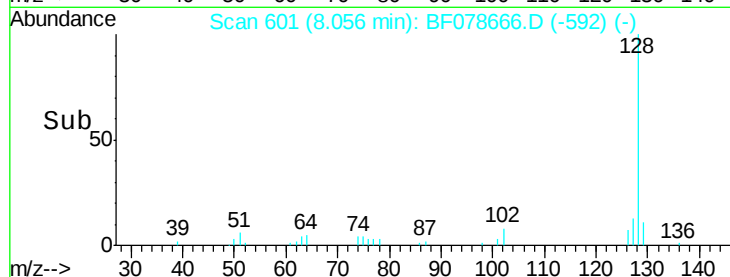
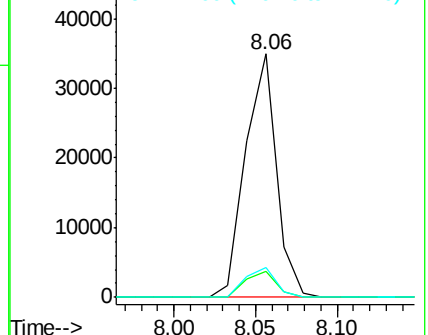
127 12.5 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33

4-Chloroaniline

Concen: 5.99 ng

RT: 8.22 min Scan# 615

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Tgt Ion:127 Resp: 14768

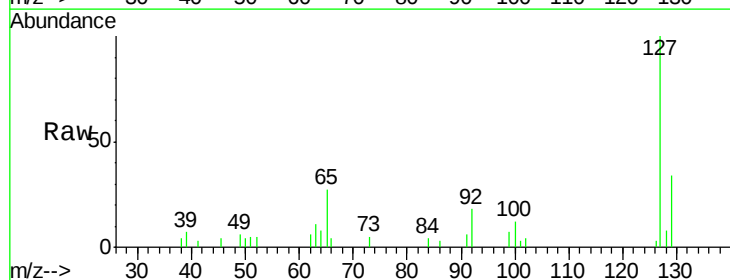
Ion Ratio Lower Upper

127 100

129 34.1 25.5 38.3

65 27.1 21.7 32.5

92 18.1 14.6 21.8

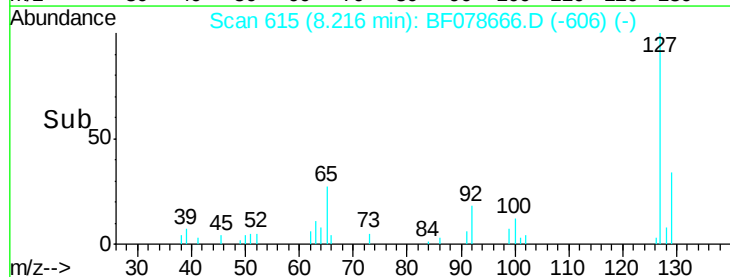
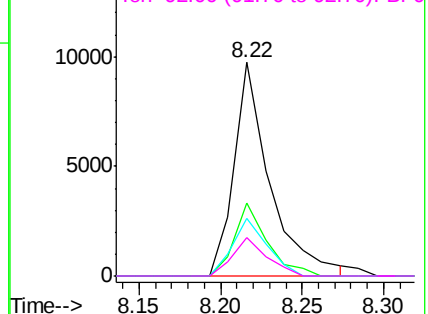


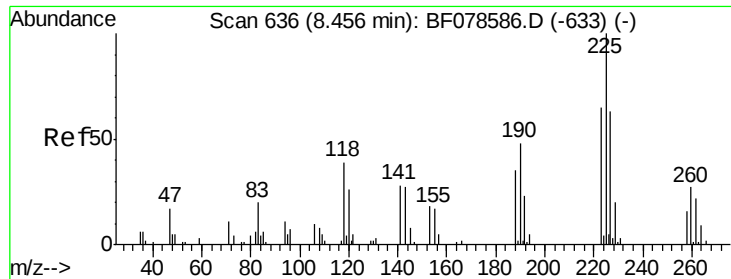
Abundance Ion 127.00 (126.70 to 127.70): E

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

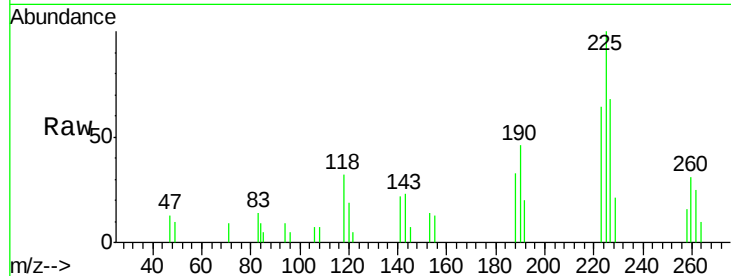




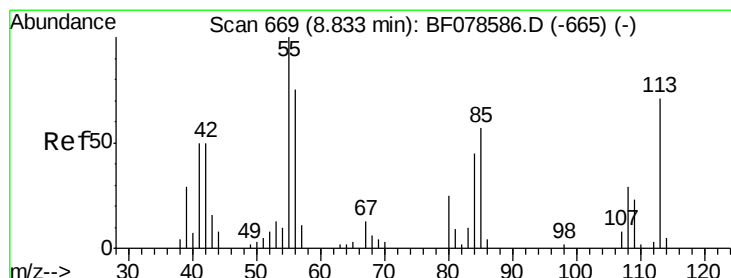
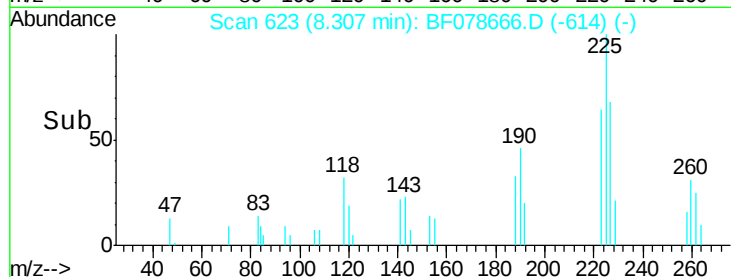
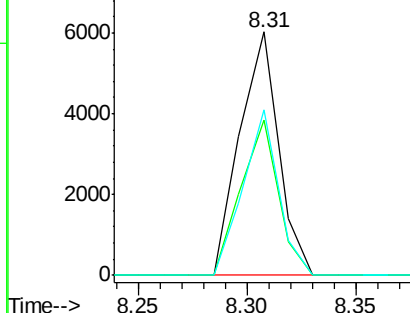
#34  
Hexachlorobutadiene  
Concen: 7.45 ng  
RT: 8.31 min Scan# 623  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

Tgt Ion: 225 Resp: 7447  
Ion Ratio Lower Upper  
225 100  
223 64.0 47.5 71.3  
227 67.8 50.2 75.2

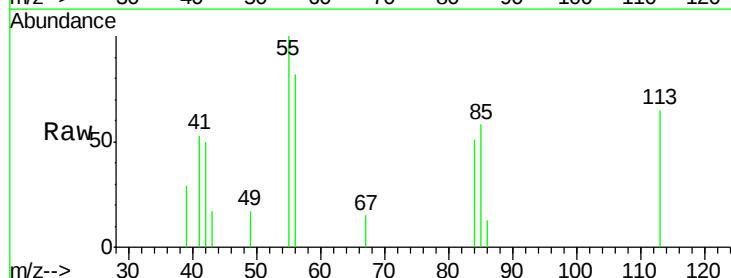


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

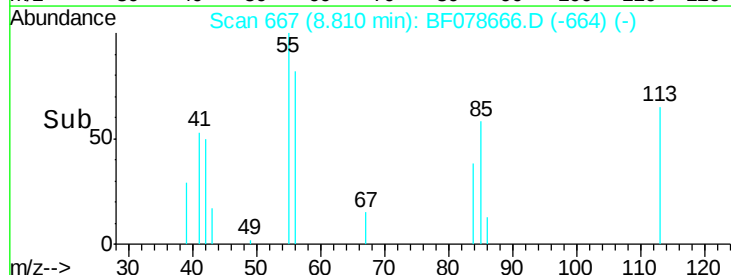
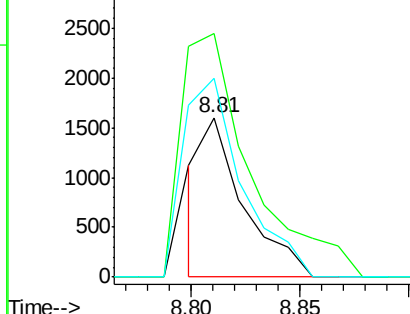


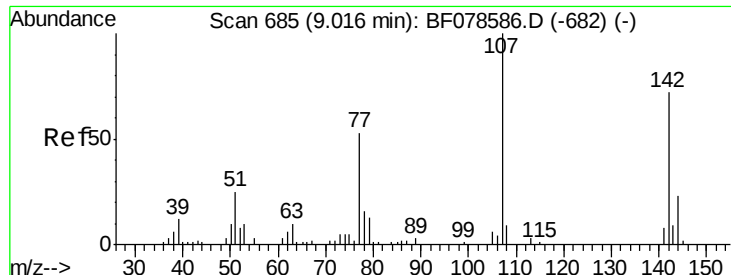
#35  
Caprolactam  
Concen: 4.47 ng  
RT: 8.81 min Scan# 667  
Delta R.T. -0.07 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion: 113 Resp: 2116  
Ion Ratio Lower Upper  
113 100  
55 152.7 151.9 191.9  
56 124.9 106.1 146.1



Abundance Ion 113.00 (112.70 to 113.70): E  
Ion 55.00 (54.70 to 55.70): BF0  
Ion 56.00 (55.70 to 56.70): BF0

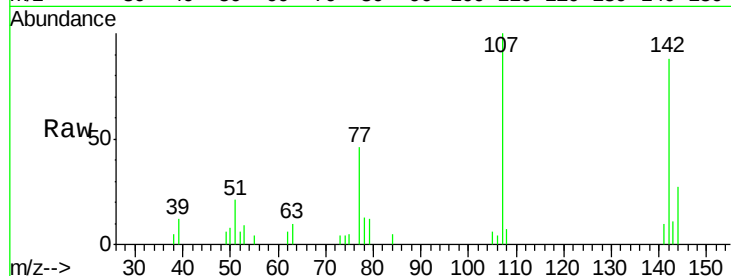




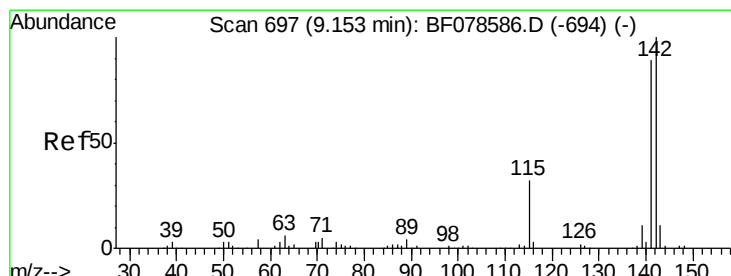
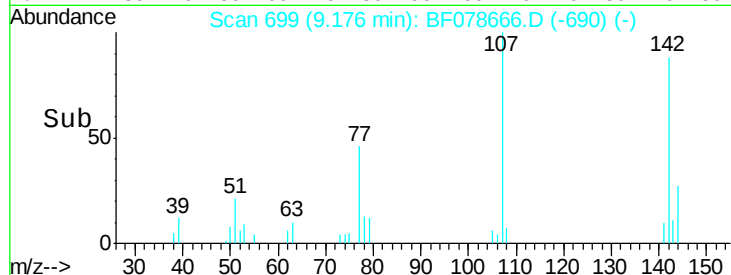
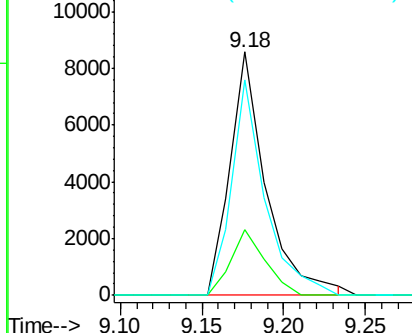
#36  
 4-Chloro-3-methylphenol  
 Concen: 8.20 ng  
 RT: 9.18 min Scan# 699  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Tgt Ion:107 Resp: 13131  
 Ion Ratio Lower Upper  
 107 100  
 144 26.8 18.2 27.2  
 142 88.3 58.0 87.0#

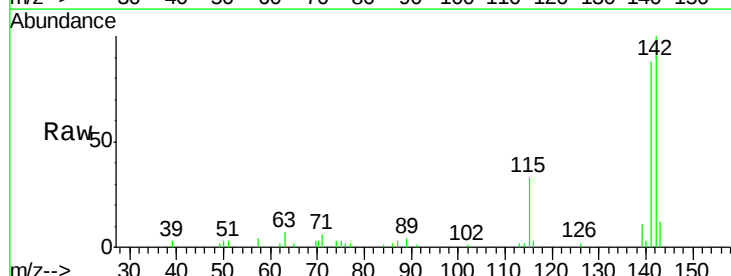


Abundance Ion 107.00 (106.70 to 107.70): E  
 Ion 144.00 (143.70 to 144.70): E  
 Ion 142.00 (141.70 to 142.70): E

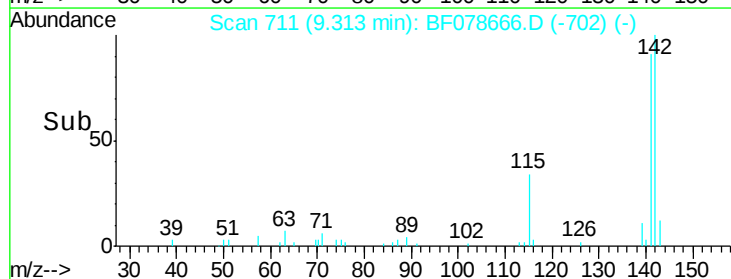
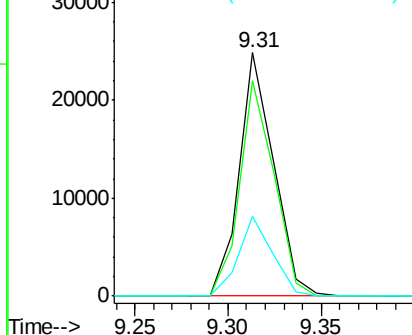


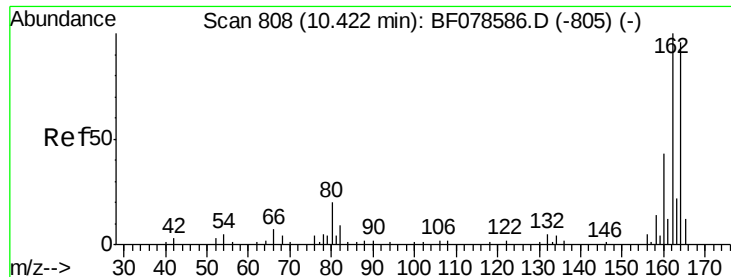
#37  
 2-Methylnaphthalene  
 Concen: 7.94 ng  
 RT: 9.31 min Scan# 711  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:142 Resp: 32051  
 Ion Ratio Lower Upper  
 142 100  
 141 88.3 70.3 105.5  
 115 32.8 24.6 37.0



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: 11.20 min Scan# 876

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

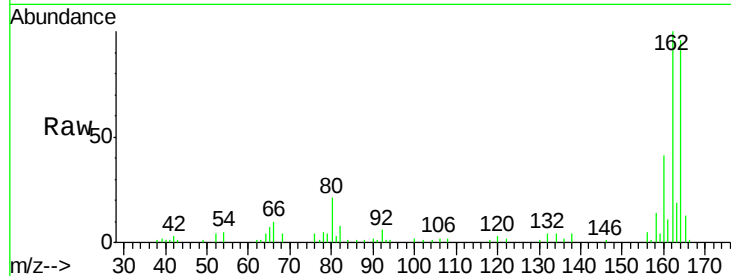
Tgt Ion:164 Resp: 57453

Ion Ratio Lower Upper

164 100

162 104.2 82.2 123.2

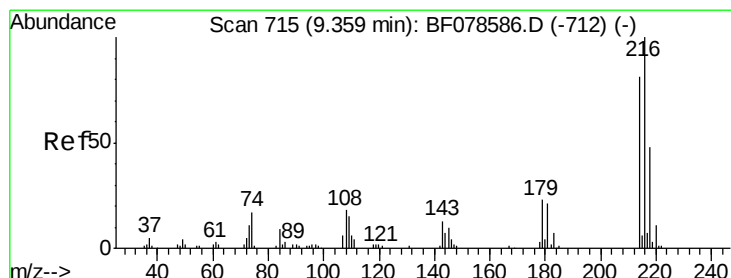
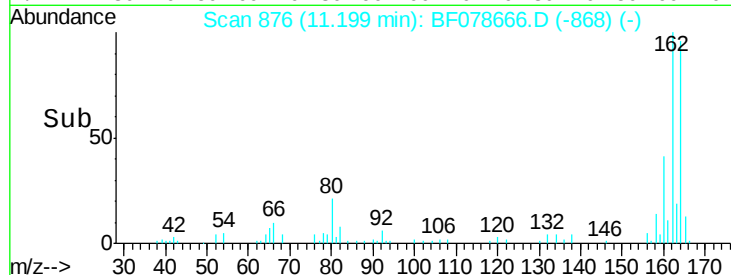
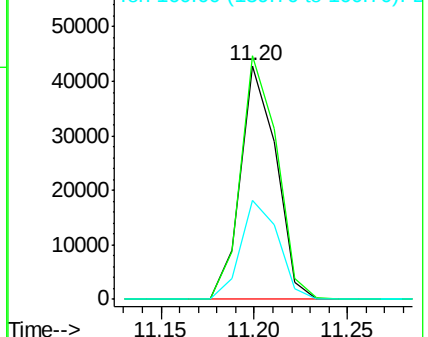
160 42.2 34.7 52.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#39

1,2,4,5-Tetrachlorobenzene

Concen: 7.92 ng

RT: 9.62 min Scan# 738

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Tgt Ion:216 Resp: 14102

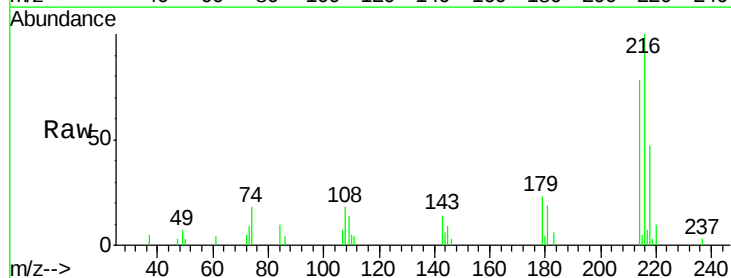
Ion Ratio Lower Upper

216 100

214 75.3 62.0 93.0

179 21.2 17.3 25.9

108 17.6 14.6 21.8

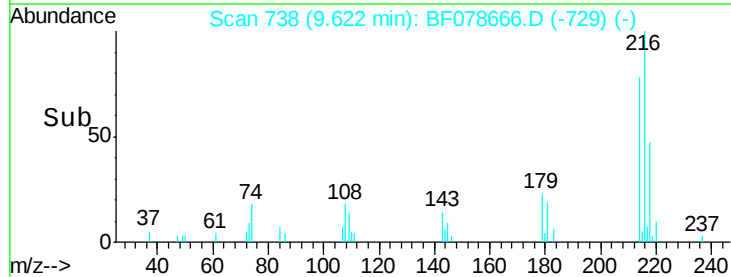
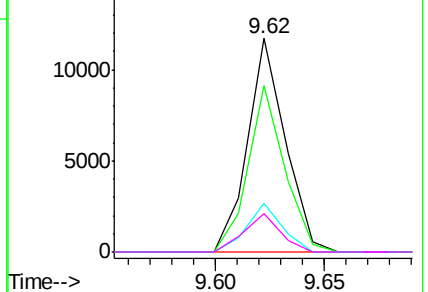


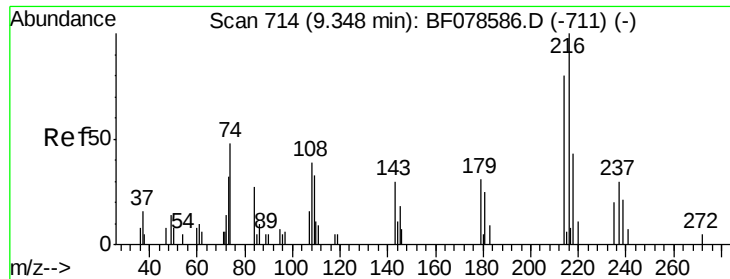
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E

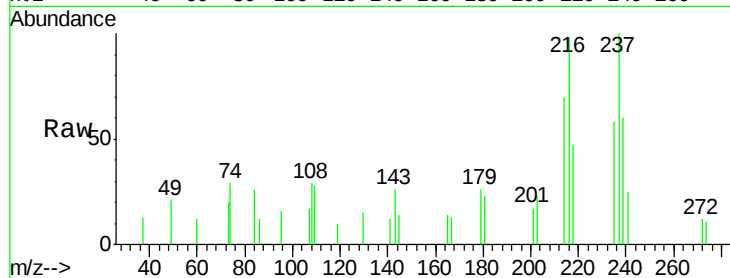




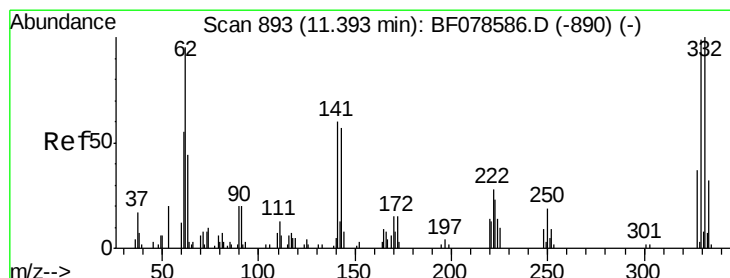
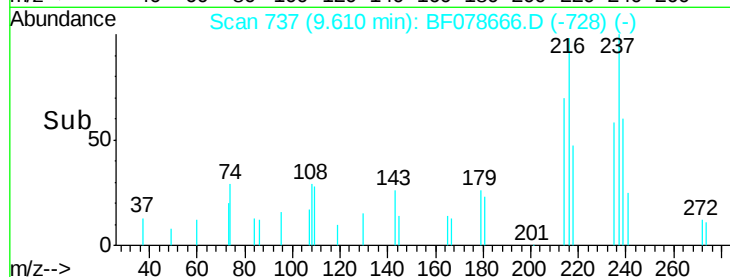
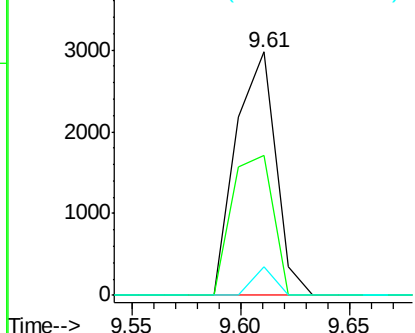
#40  
Hexachlorocyclopentadiene  
Concen: 11.32 ng  
RT: 9.61 min Scan# 737  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

Tgt Ion: 237 Resp: 3773  
Ion Ratio Lower Upper  
237 100  
235 57.6 44.1 84.1  
272 11.8 0.0 34.4

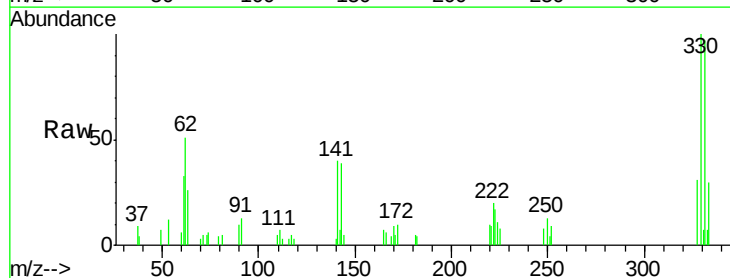


Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E

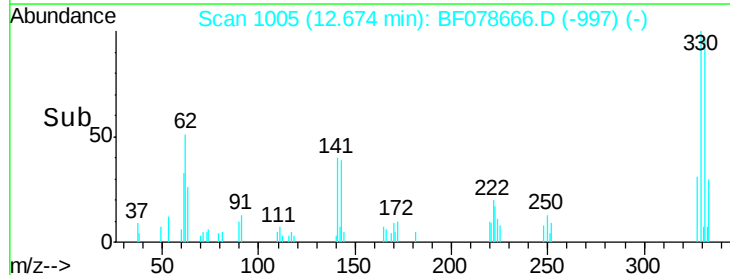
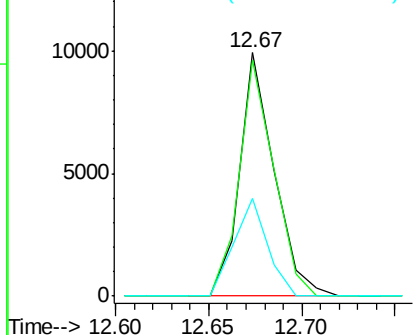


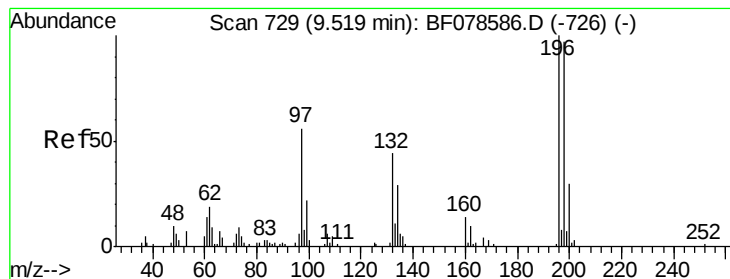
#41  
2,4,6-Tribromophenol  
Concen: 26.80 ng  
RT: 12.67 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion: 330 Resp: 12768  
Ion Ratio Lower Upper  
330 100  
332 97.4 78.6 117.8  
141 39.0 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





#42

2,4,6-Trichlorophenol

Concen: 8.01 ng

RT: 9.87 min Scan# 760

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

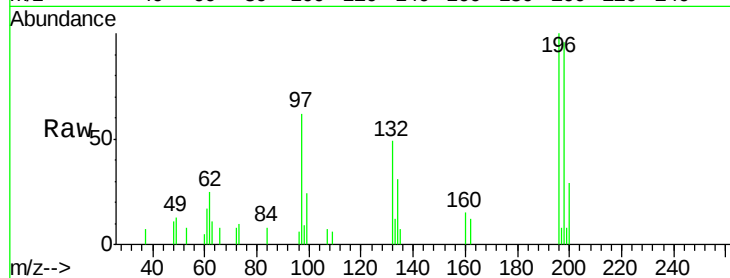
Tgt Ion:196 Resp: 8997

Ion Ratio Lower Upper

196 100

198 96.2 75.4 113.2

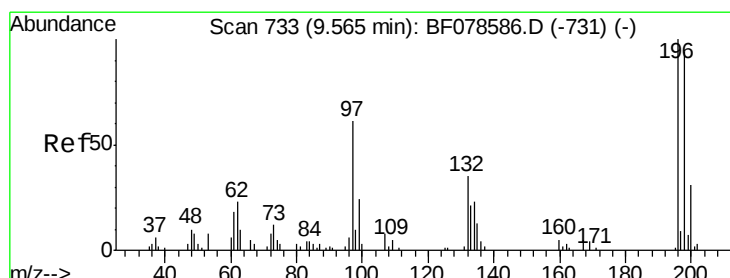
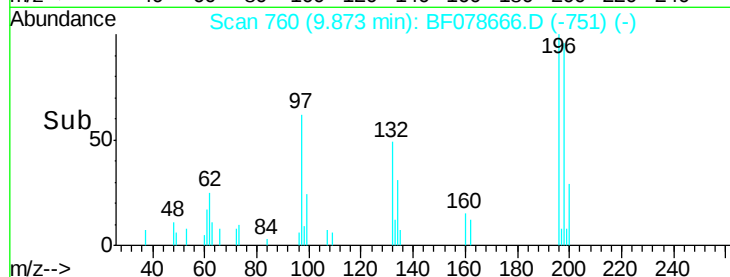
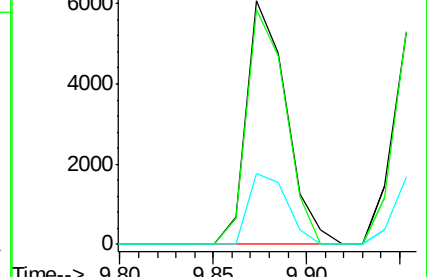
200 28.9 24.0 36.0



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#43

2,4,5-Trichlorophenol

Concen: 8.10 ng

RT: 9.95 min Scan# 767

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Tgt Ion:196 Resp: 9500

Ion Ratio Lower Upper

196 100

198 100.4 76.6 115.0

97 47.8 50.6 75.8#

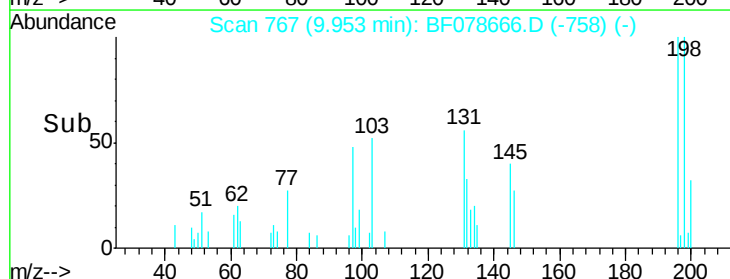
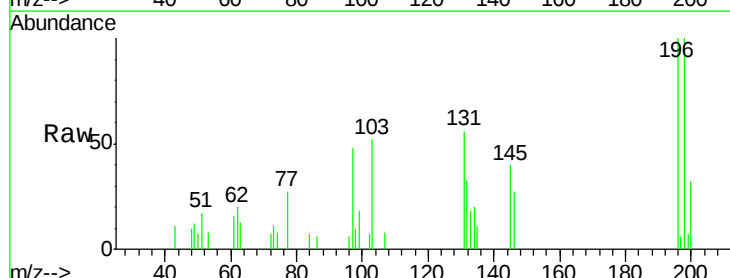
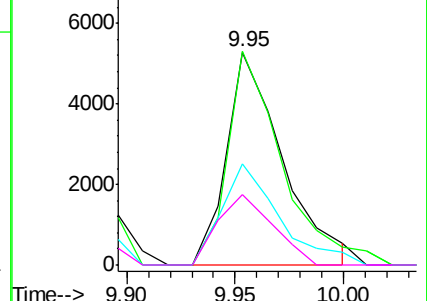
132 33.0 27.7 41.5

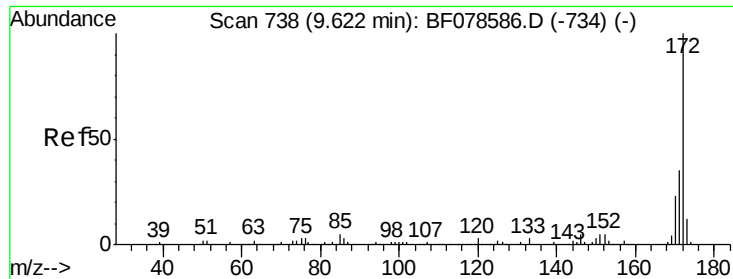
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF0

Ion 132.00 (131.70 to 132.70): E

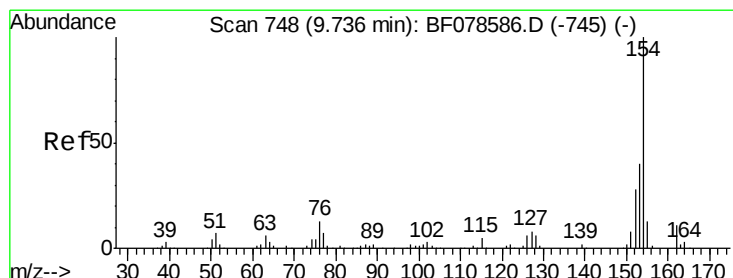
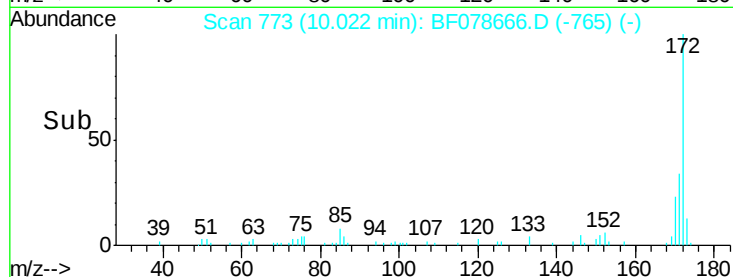
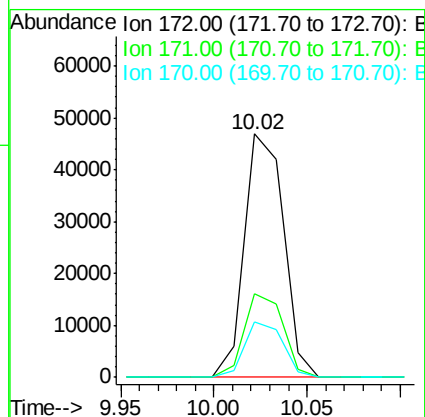
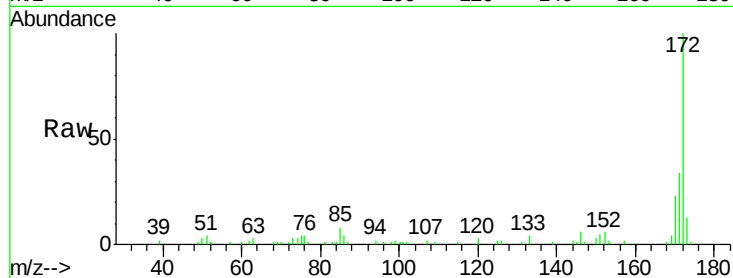




#44  
2-Fluorobiphenyl  
Concen: 17.02 ng  
RT: 10.02 min Scan# 773  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

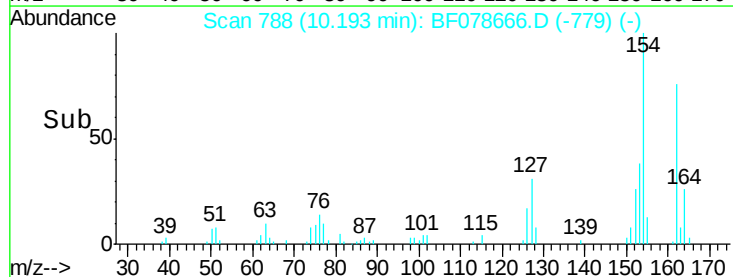
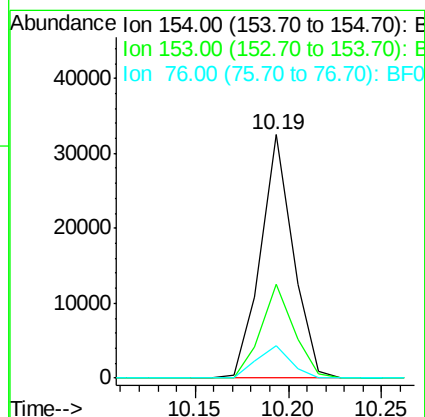
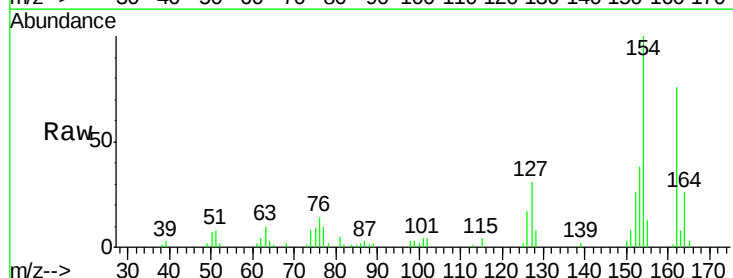
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

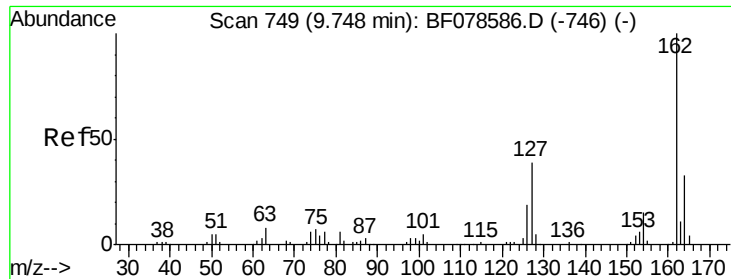
Tgt Ion:172 Resp: 68401  
Ion Ratio Lower Upper  
172 100  
171 34.4 28.6 42.8  
170 22.5 18.5 27.7



#45  
1,1'-Biphenyl  
Concen: 8.35 ng  
RT: 10.19 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion:154 Resp: 39263  
Ion Ratio Lower Upper  
154 100  
153 38.4 20.0 60.0  
76 13.6 0.0 30.6

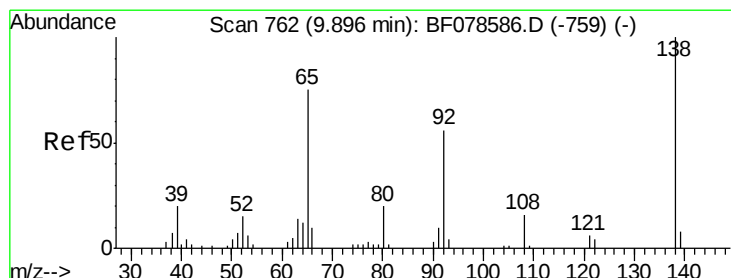
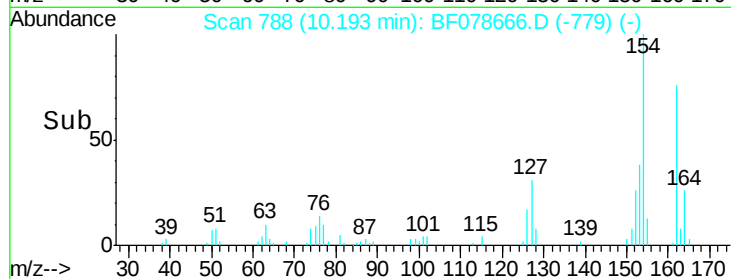
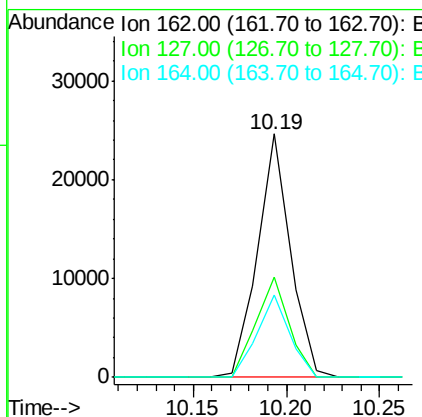
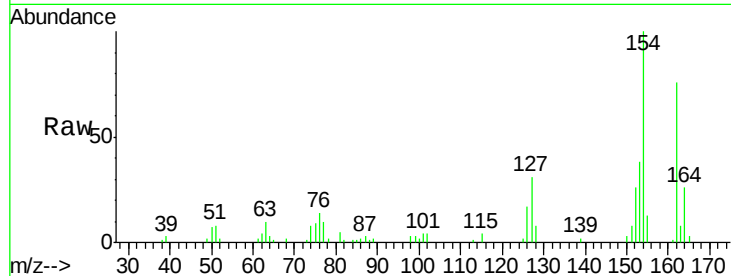




#46  
 2-Chloronaphthalene  
 Concen: 8.11 ng  
 RT: 10.19 min Scan# 788  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

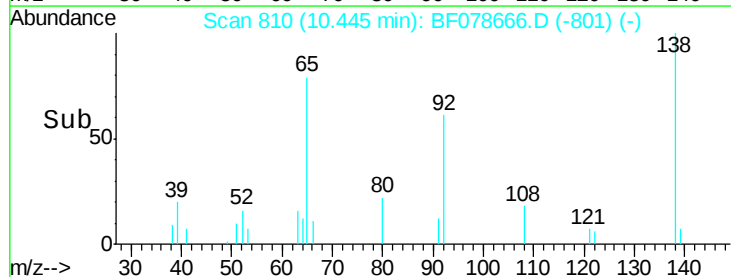
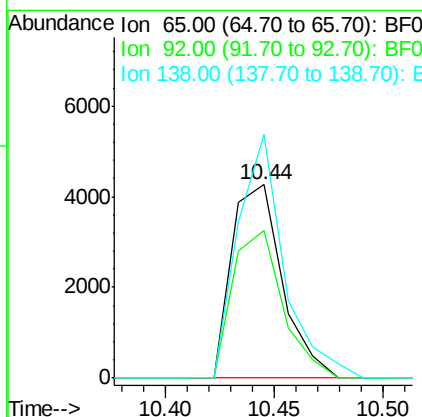
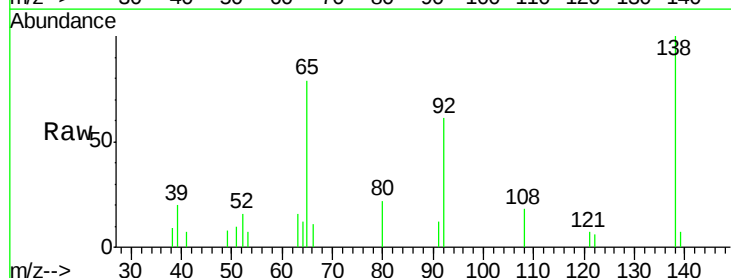
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

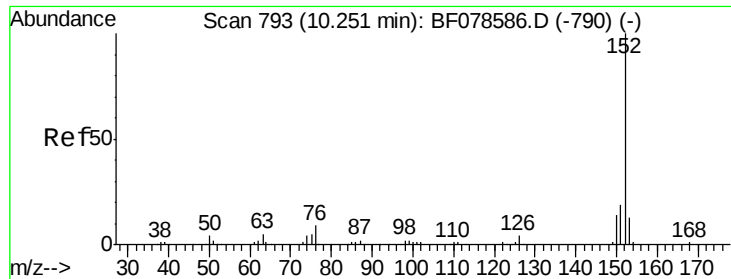
Tgt Ion: 162 Resp: 29975  
 Ion Ratio Lower Upper  
 162 100  
 127 41.4 32.6 49.0  
 164 33.8 26.0 39.0



#47  
 2-Nitroaniline  
 Concen: 7.53 ng  
 RT: 10.44 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion: 65 Resp: 6891  
 Ion Ratio Lower Upper  
 65 100  
 92 76.3 51.3 76.9  
 138 126.0 70.4 105.6#





#48

Acenaphthylene

Concen: 8.52 ng

RT: 10.94 min Scan# 853

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

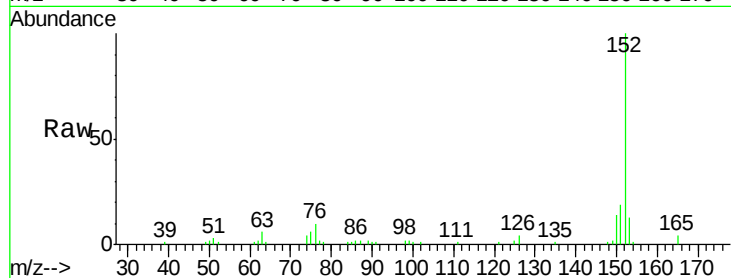
Tgt Ion:152 Resp: 50876

Ion Ratio Lower Upper

152 100

151 19.4 15.7 23.5

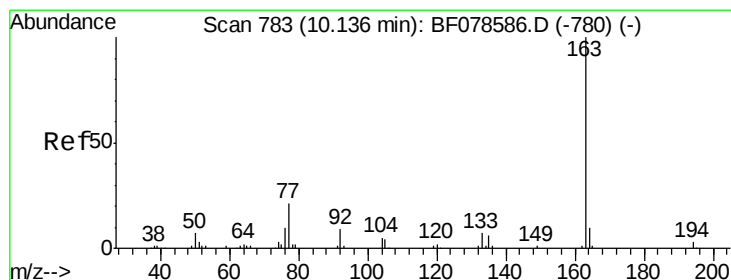
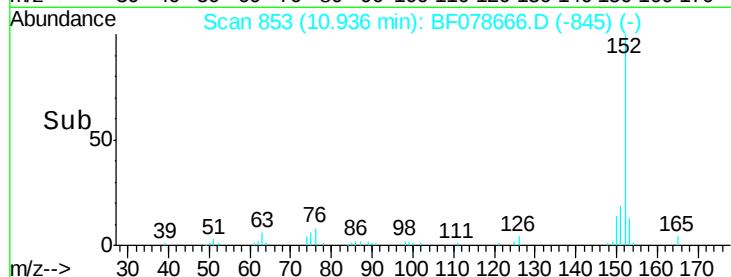
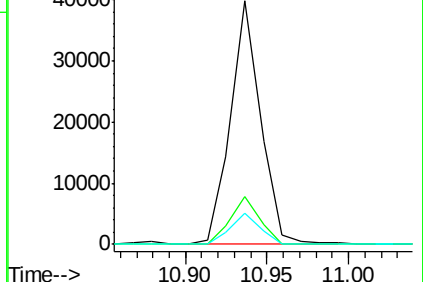
153 13.0 10.2 15.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 12.57 ng

RT: 10.83 min Scan# 844

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

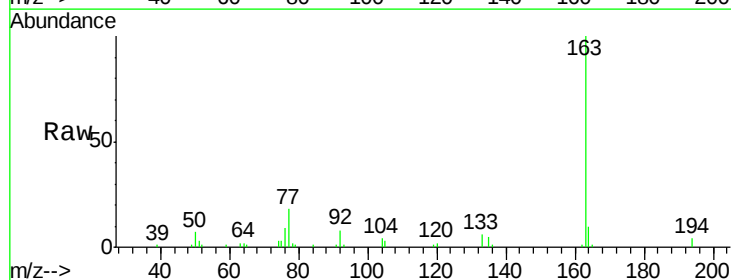
Tgt Ion:163 Resp: 54267

Ion Ratio Lower Upper

163 100

194 3.7 2.3 3.5#

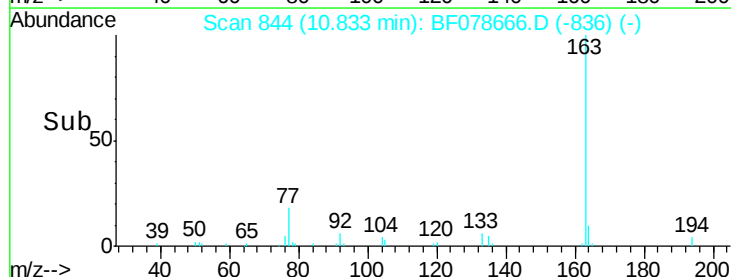
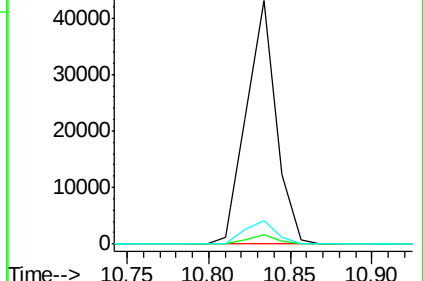
164 9.8 8.6 13.0

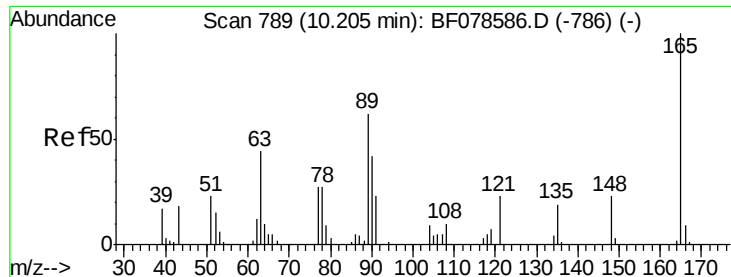


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

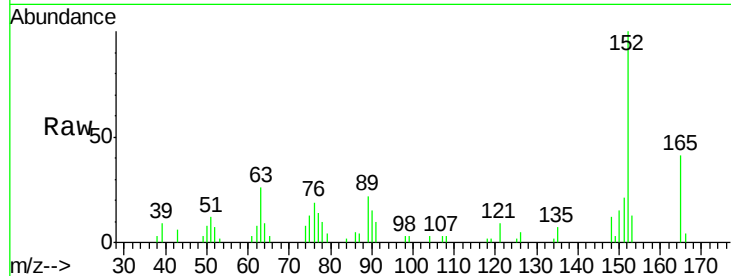




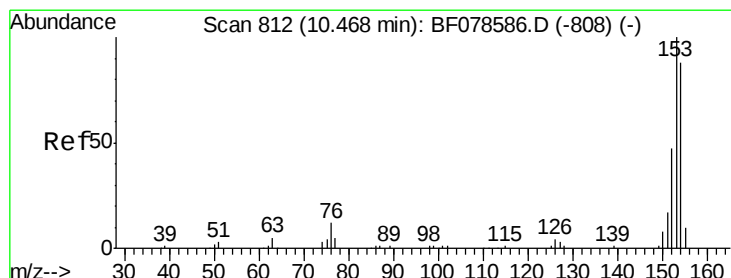
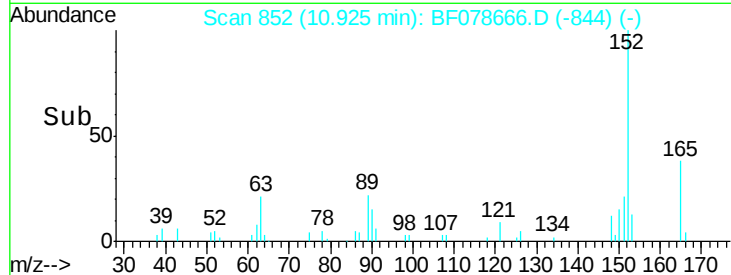
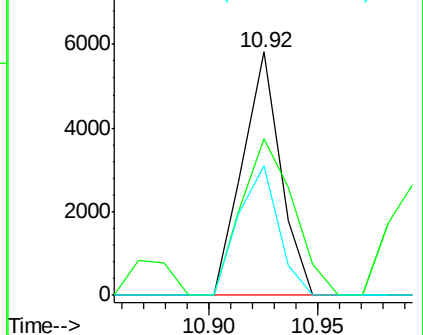
#50  
 2,6-Dinitrotoluene  
 Concen: 7.95 ng  
 RT: 10.92 min Scan# 852  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Tgt Ion:165 Resp: 7061  
 Ion Ratio Lower Upper  
 165 100  
 63 64.2 24.1 36.1#  
 89 53.3 28.9 43.3#

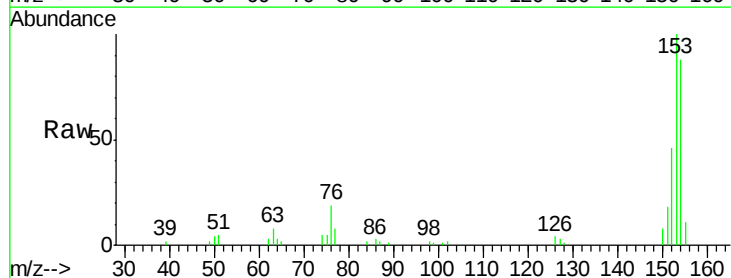


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

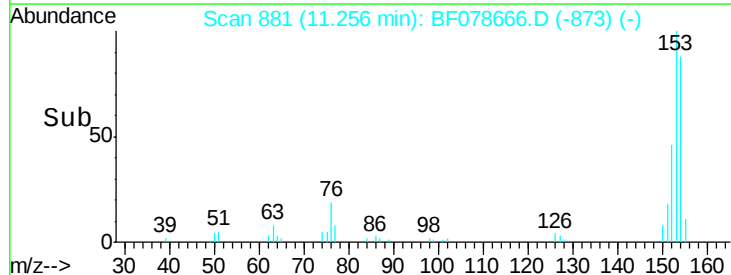
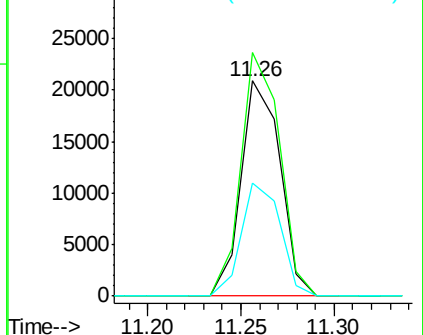


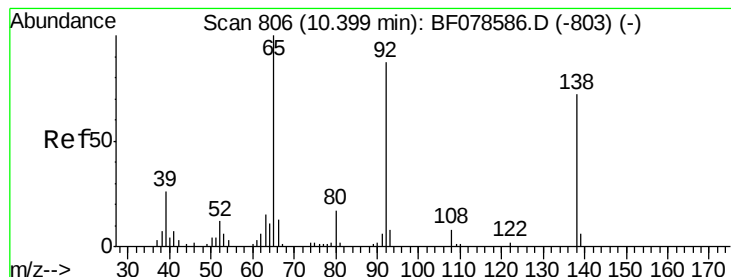
#51  
 Acenaphthene  
 Concen: 9.03 ng  
 RT: 11.26 min Scan# 881  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:154 Resp: 30369  
 Ion Ratio Lower Upper  
 154 100  
 153 113.3 91.4 137.2  
 152 52.4 43.0 64.6



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E





#52

3-Nitroaniline

Concen: 6.82 ng

RT: 11.21 min Scan# 877

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

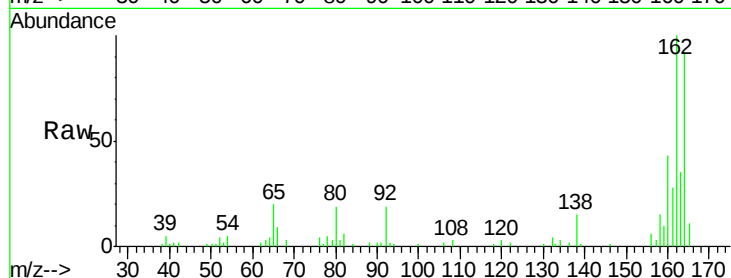
Tgt Ion:138 Resp: 6883

Ion Ratio Lower Upper

138 100

108 23.5 8.2 12.4#

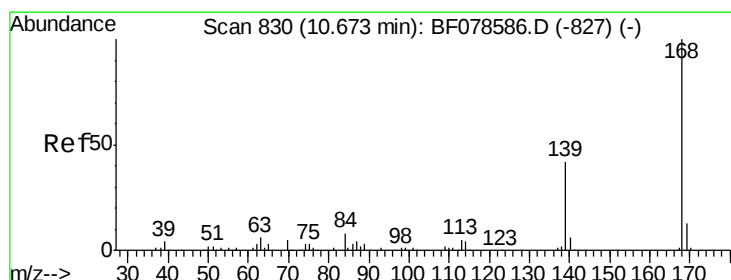
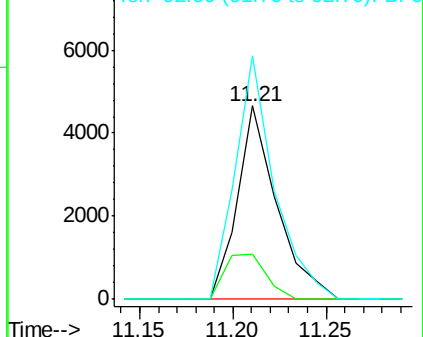
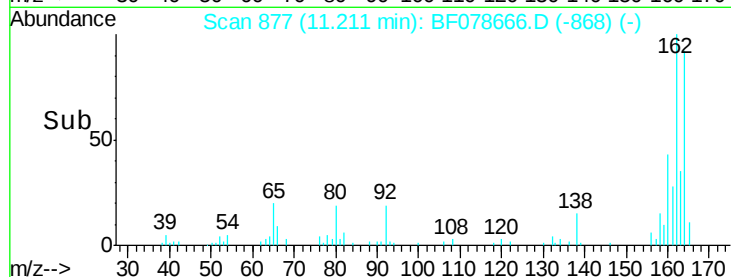
92 125.9 88.4 132.6



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0



#54

Dibenzofuran

Concen: 9.06 ng

RT: 11.59 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

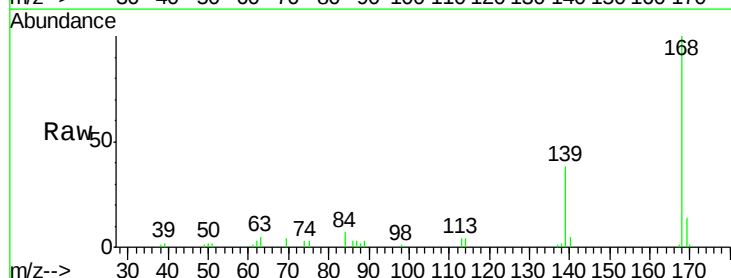
Tgt Ion:168 Resp: 46539

Ion Ratio Lower Upper

168 100

139 38.2 31.0 46.4

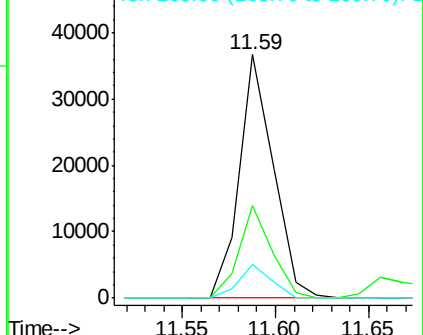
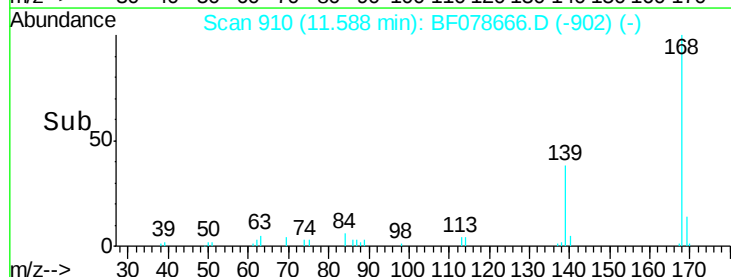
169 13.8 10.7 16.1

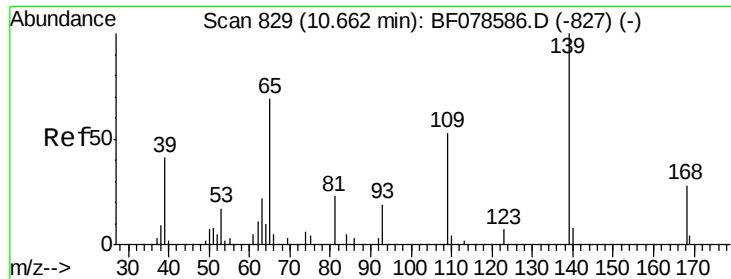


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

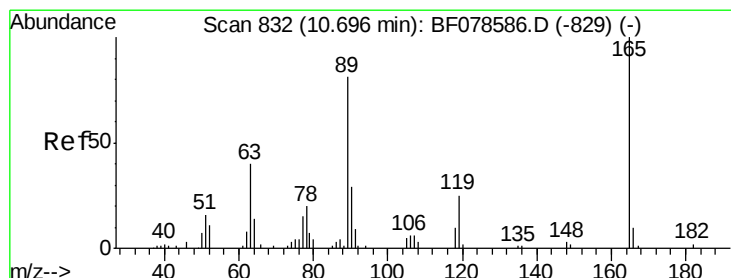
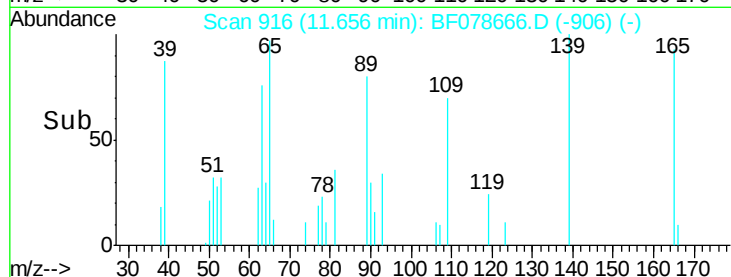
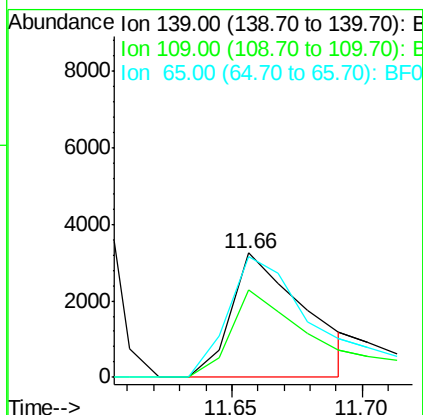
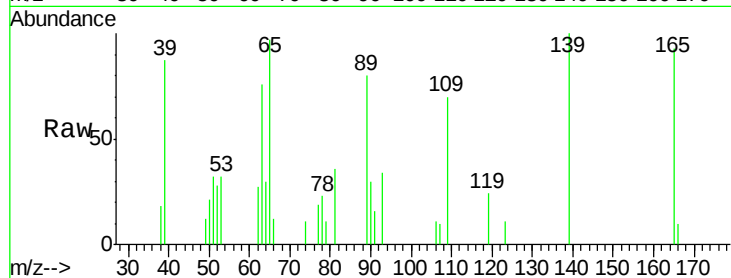




#55  
4-Nitrophenol  
Concen: 11.07 ng  
RT: 11.66 min Scan# 916  
Delta R.T. 0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

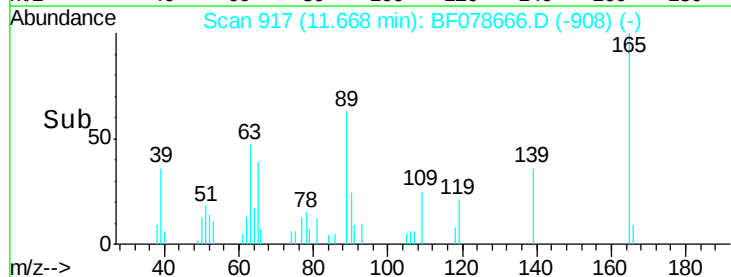
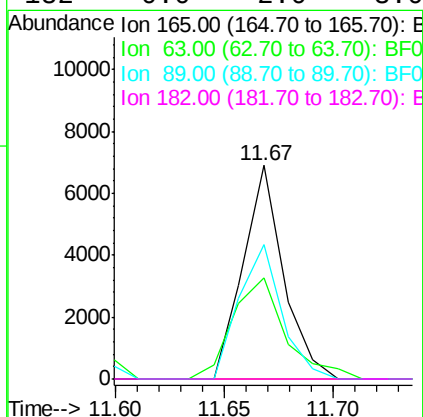
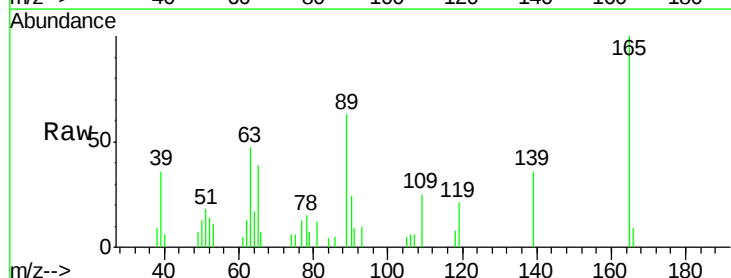
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

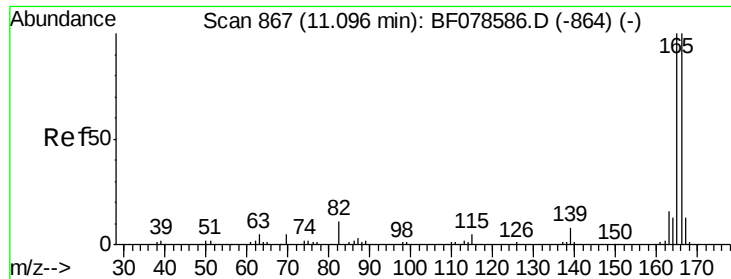
Tgt Ion:139 Resp: 6397  
Ion Ratio Lower Upper  
139 100  
109 70.1 36.7 76.7  
65 97.2 49.9 89.9#



#56  
2,4-Dinitrotoluene  
Concen: 7.75 ng  
RT: 11.67 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion:165 Resp: 8918  
Ion Ratio Lower Upper  
165 100  
63 47.1 26.5 39.7#  
89 62.7 46.4 69.6  
182 0.0 2.0 3.0#

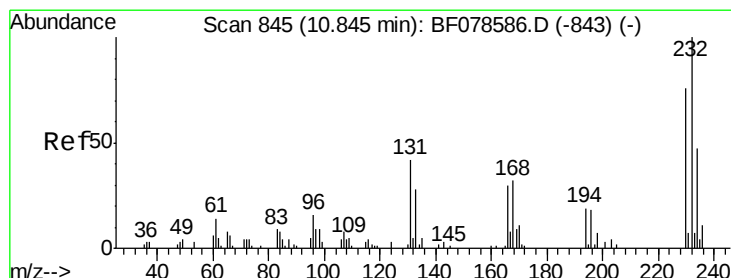
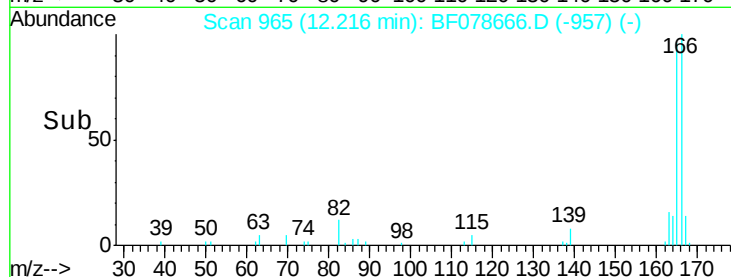
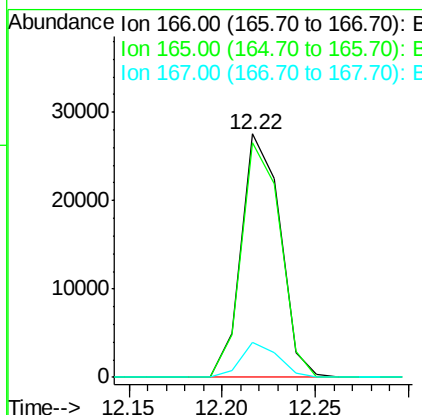
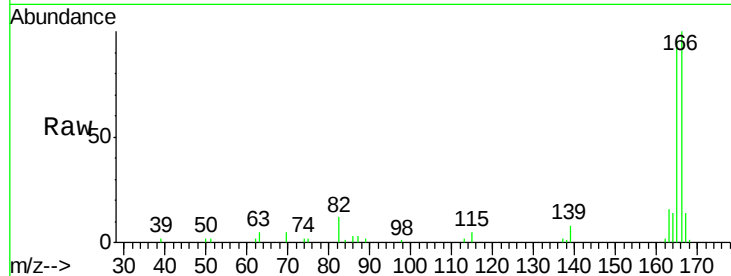




#57  
**Fluorene**  
 Concen: 9.58 ng  
 RT: 12.22 min Scan# 965  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

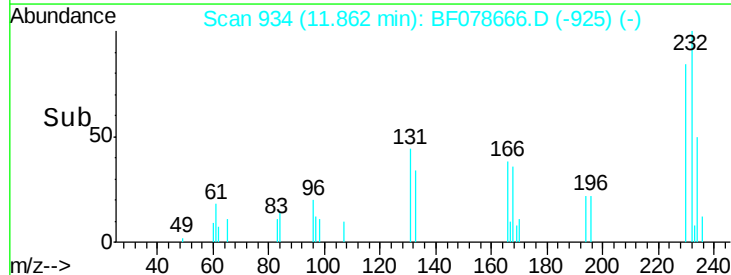
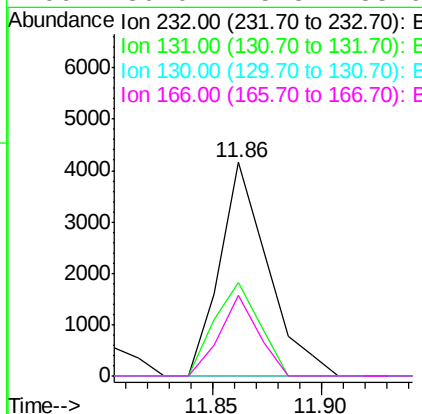
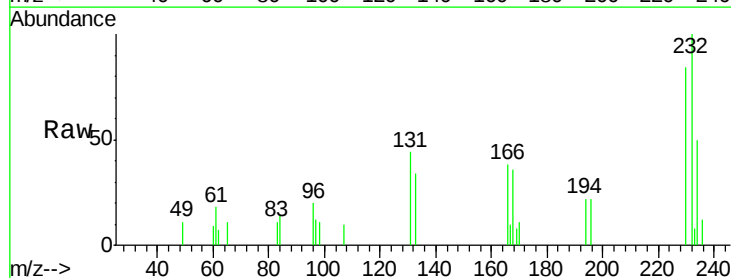
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

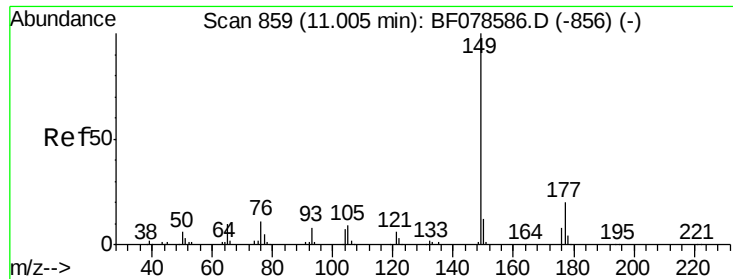
Tgt Ion:166 Resp: 39863  
 Ion Ratio Lower Upper  
 166 100  
 165 96.3 78.9 118.3  
 167 14.1 10.7 16.1



#58  
**2,3,4,6-Tetrachlorophenol**  
 Concen: 7.36 ng  
 RT: 11.86 min Scan# 934  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:232 Resp: 6401  
 Ion Ratio Lower Upper  
 232 100  
 131 40.6 37.8 56.8  
 130 0.0 1.5 2.3#  
 166 30.0 25.8 38.6

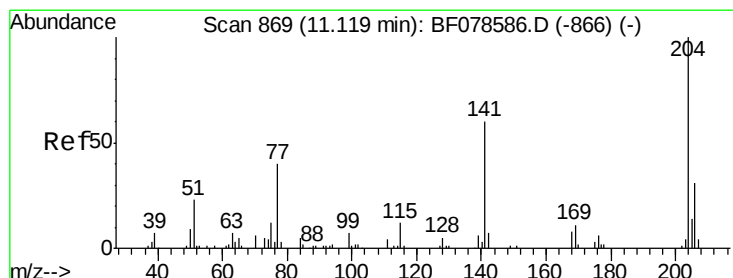
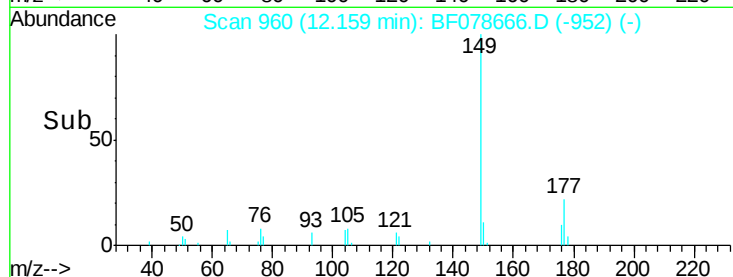
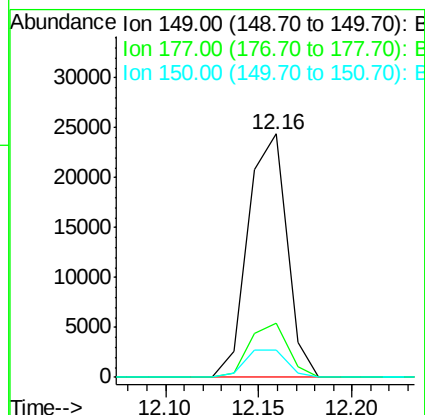
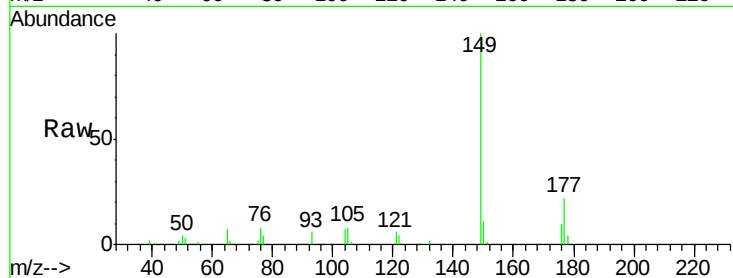




#59  
Diethylphthalate  
Concen: 8.46 ng  
RT: 12.16 min Scan# 960  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

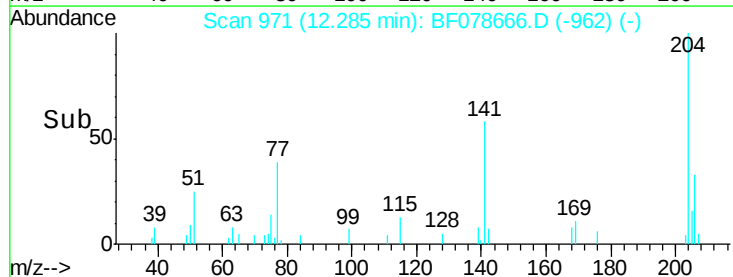
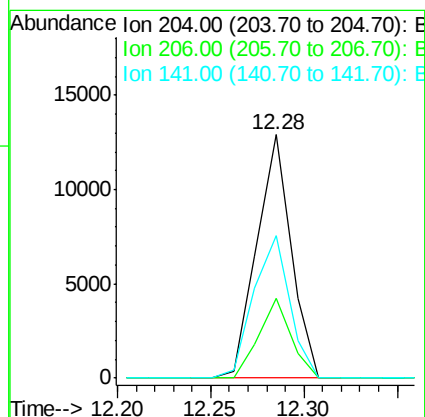
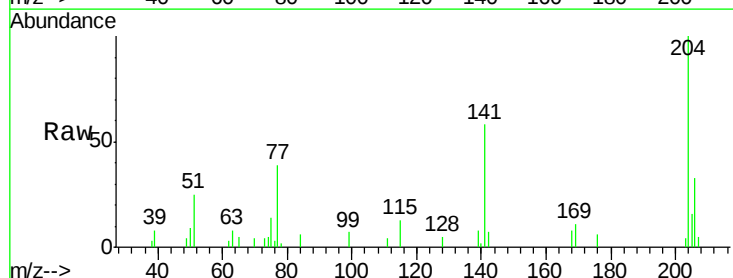
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

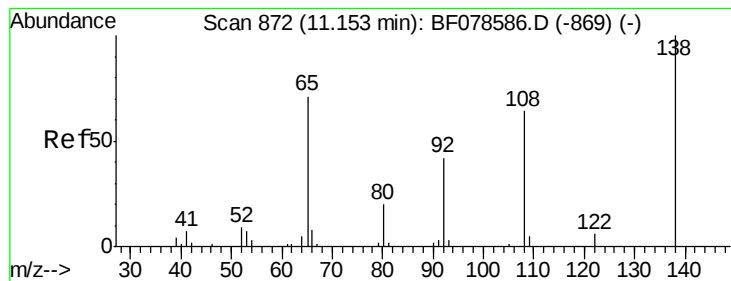
Tgt Ion:149 Resp: 35191  
Ion Ratio Lower Upper  
149 100  
177 22.4 17.4 26.2  
150 11.3 9.4 14.2



#60  
4-Chlorophenyl-phenylether  
Concen: 8.60 ng  
RT: 12.28 min Scan# 971  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion:204 Resp: 16475  
Ion Ratio Lower Upper  
204 100  
206 32.7 25.6 38.4  
141 58.5 35.4 53.0#





#61

4-Nitroaniline

Concen: 6.53 ng

RT: 12.33 min Scan# 975

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

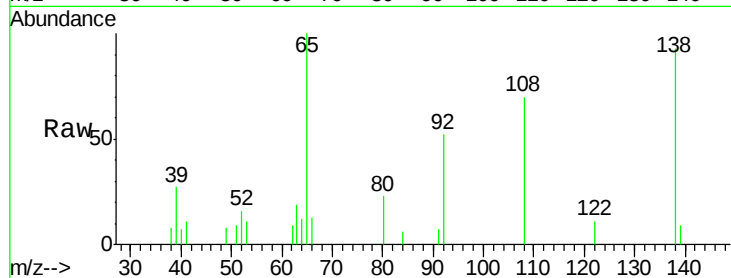
Tgt Ion:138 Resp: 6664

Ion Ratio Lower Upper

138 100

92 56.0 27.3 67.3

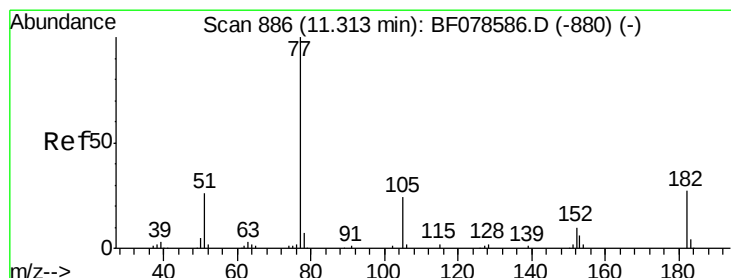
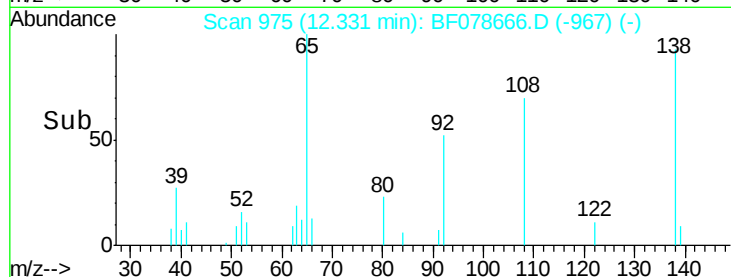
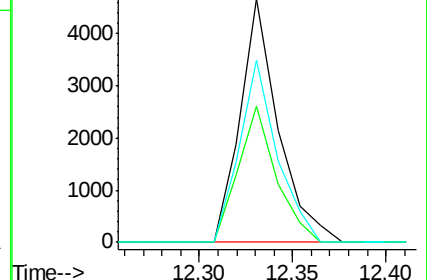
108 75.0 47.2 87.2



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 8.98 ng

RT: 12.57 min Scan# 996

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Tgt Ion: 77 Resp: 34102

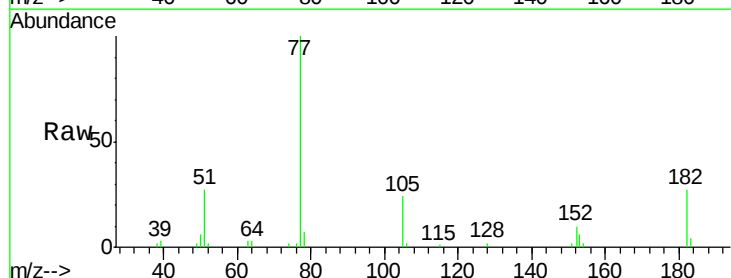
Ion Ratio Lower Upper

77 100

182 26.9 0.0 36.8

105 23.5 0.3 40.3

51 27.2 9.1 49.1

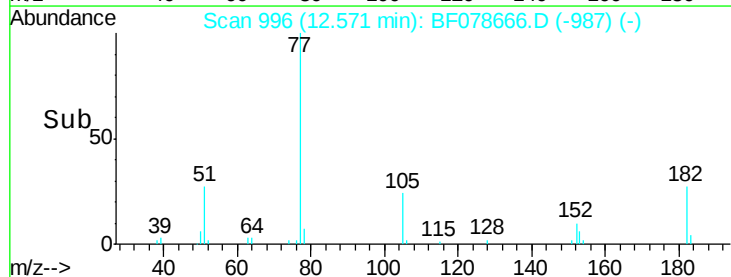
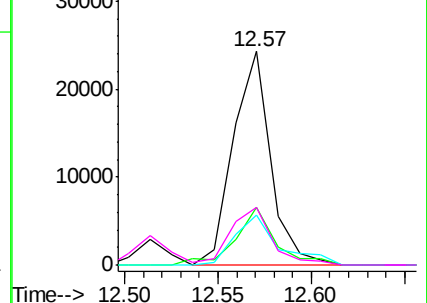


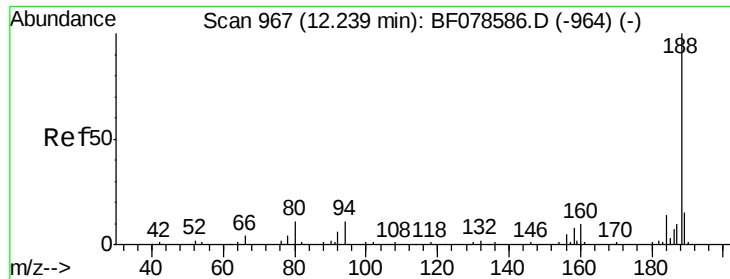
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0

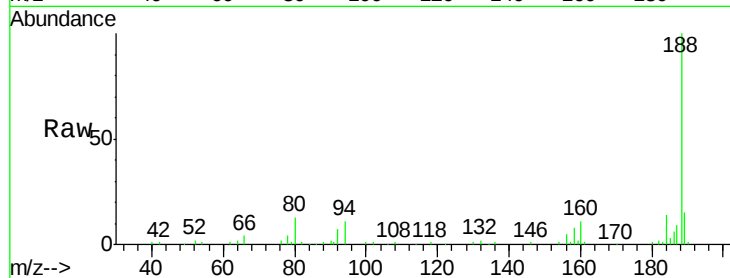




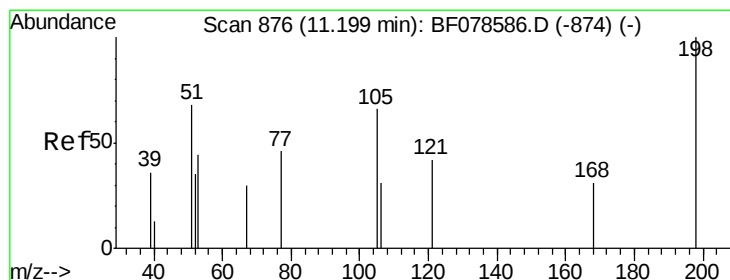
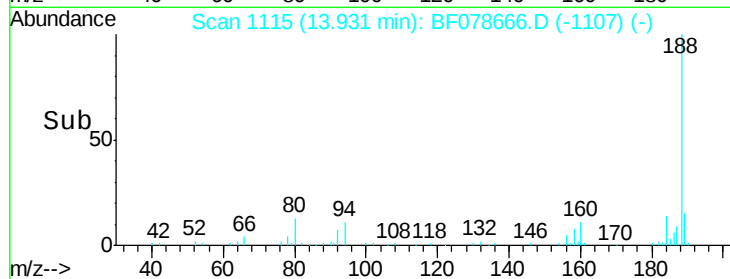
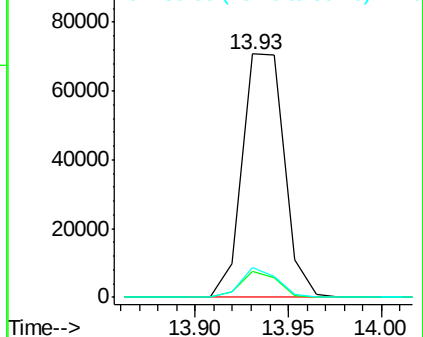
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 13.93 min Scan# 1115  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Tgt Ion:188 Resp: 111622  
 Ion Ratio Lower Upper  
 188 100  
 94 10.8 9.0 13.4  
 80 12.5 9.5 14.3

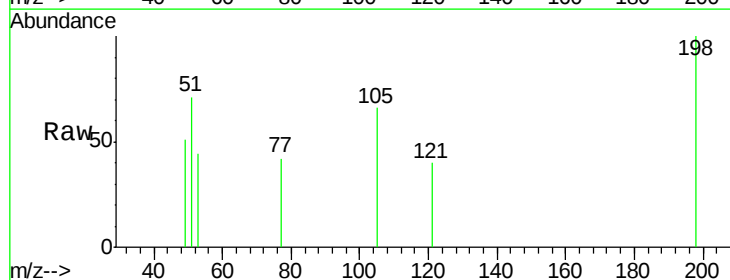


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

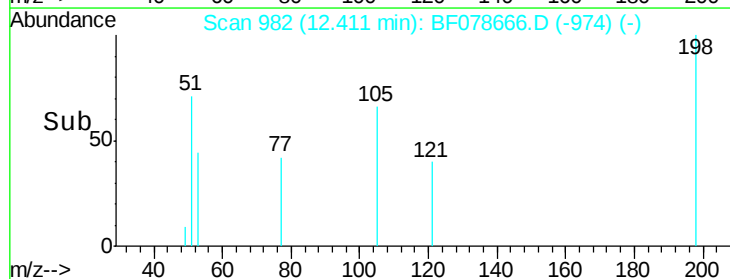
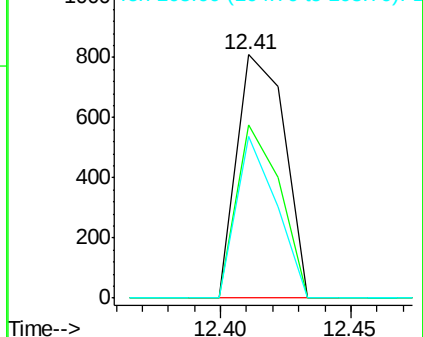


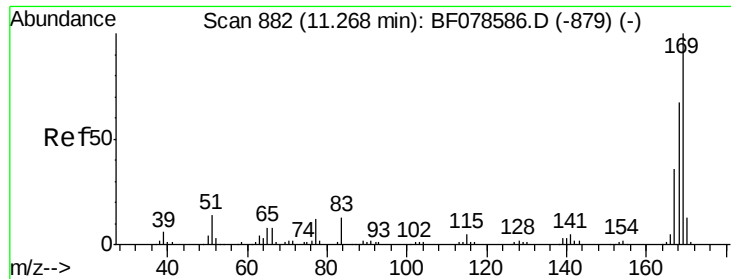
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 10.10 ng  
 RT: 12.41 min Scan# 982  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:198 Resp: 1038  
 Ion Ratio Lower Upper  
 198 100  
 51 71.1 48.6 88.6  
 105 66.3 45.8 85.8



Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF0  
 Ion 105.00 (104.70 to 105.70): E

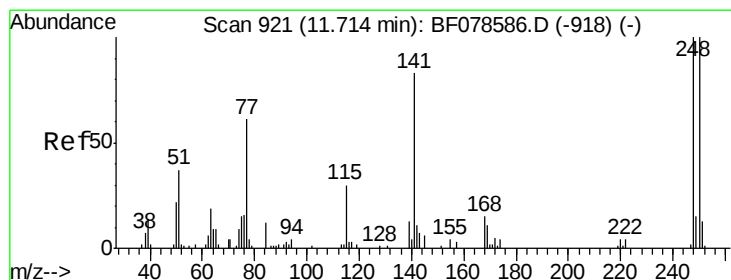
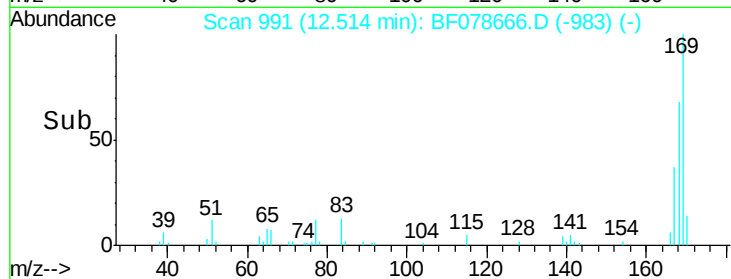
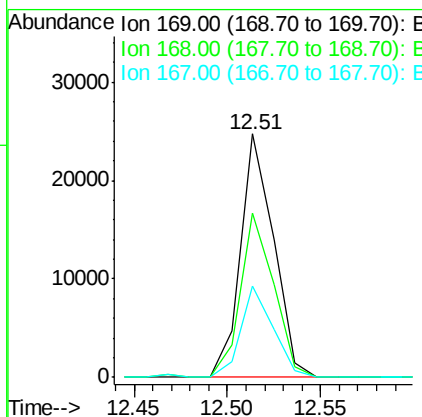
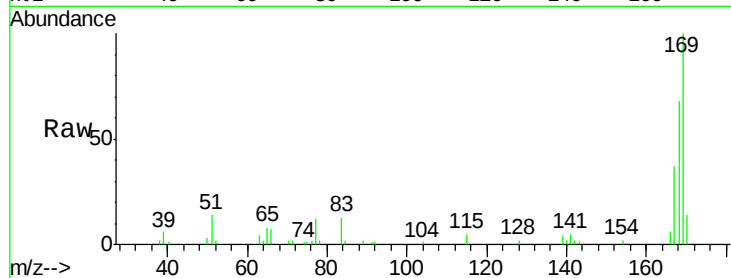




#65  
 n-Nitrosodiphenylamine  
 Concen: 7.95 ng  
 RT: 12.51 min Scan# 991  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

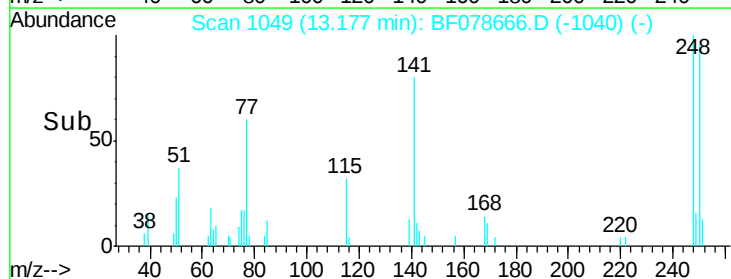
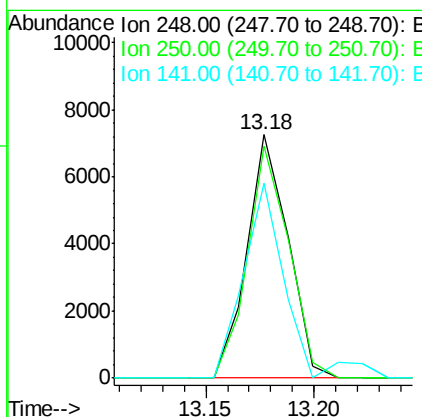
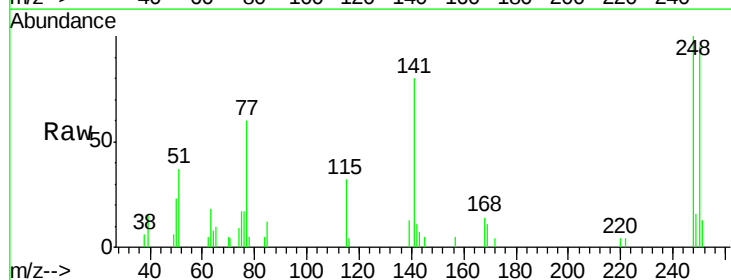
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

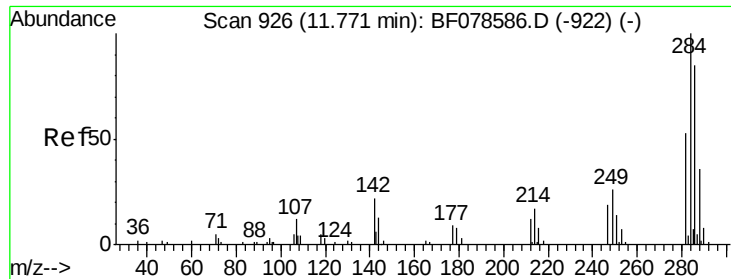
Tgt Ion:169 Resp: 30704  
 Ion Ratio Lower Upper  
 169 100  
 168 67.6 55.0 82.4  
 167 37.4 29.3 43.9



#66  
 4-Bromophenyl-phenylether  
 Concen: 8.09 ng  
 RT: 13.18 min Scan# 1049  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion:248 Resp: 9565  
 Ion Ratio Lower Upper  
 248 100  
 250 95.1 78.2 117.2  
 141 80.0 66.4 99.6

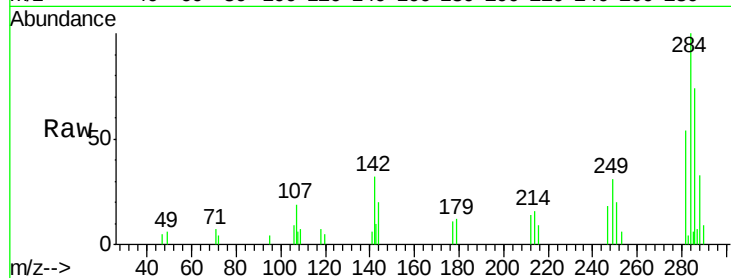




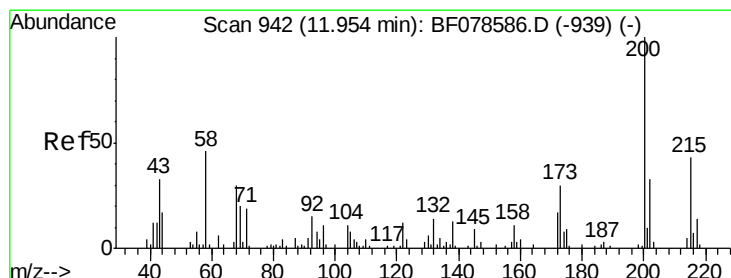
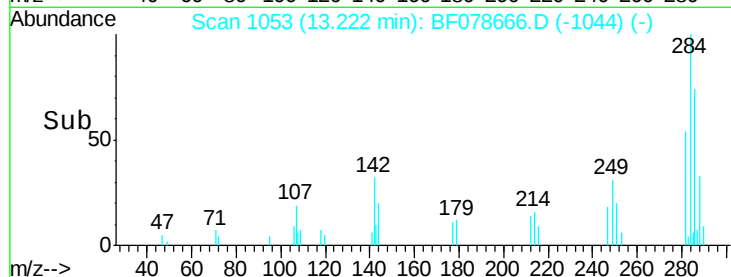
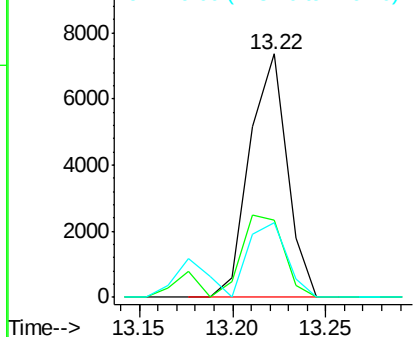
#67  
Hexachlorobenzene  
Concen: 7.90 ng  
RT: 13.22 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

Tgt Ion: 284 Resp: 10233  
Ion Ratio Lower Upper  
284 100  
142 31.8 24.5 36.7  
249 30.6 24.8 37.2

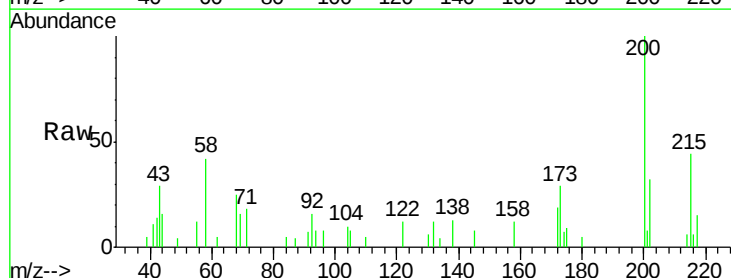


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

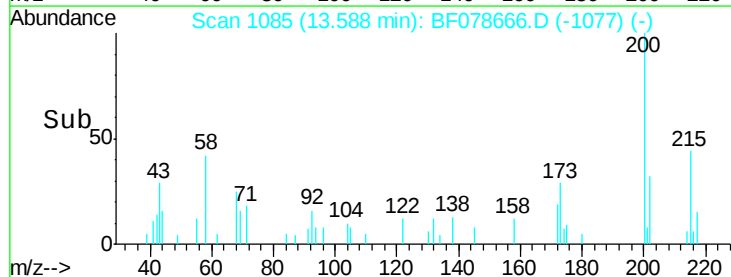
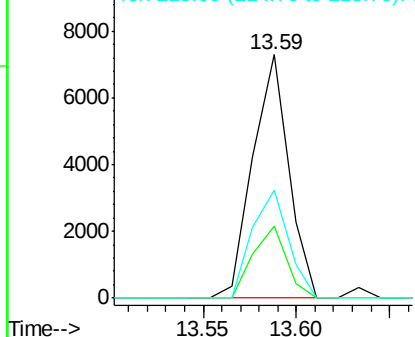


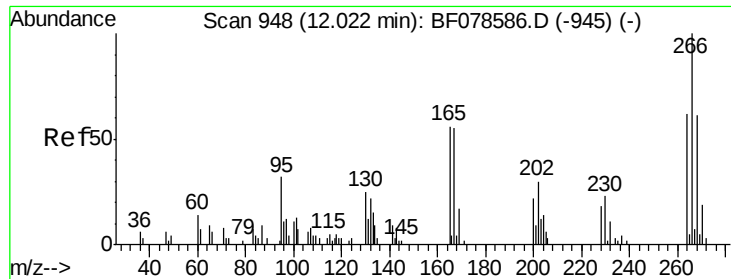
#68  
Atrazine  
Concen: 8.70 ng  
RT: 13.59 min Scan# 1085  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion: 200 Resp: 9734  
Ion Ratio Lower Upper  
200 100  
173 29.4 6.9 46.9  
215 44.1 27.1 67.1



Abundance Ion 200.00 (199.70 to 200.70): E  
Ion 173.00 (172.70 to 173.70): E  
Ion 215.00 (214.70 to 215.70): E

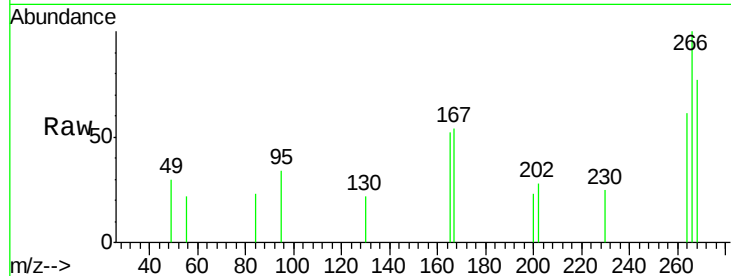




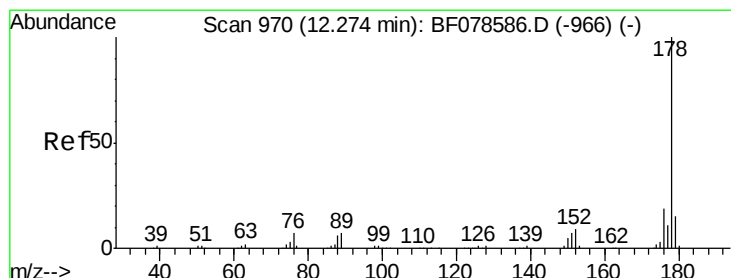
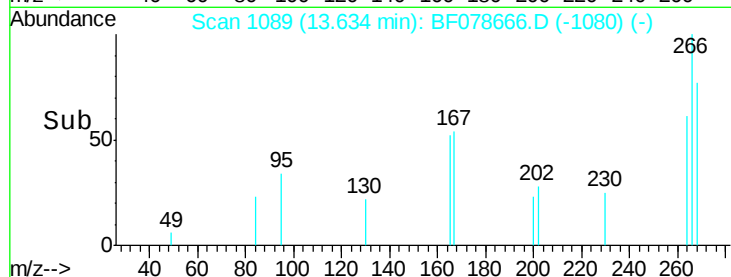
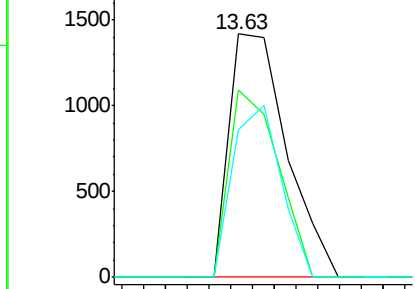
#69  
 Pentachlorophenol  
 Concen: 11.87 ng  
 RT: 13.63 min Scan# 1089  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

Tgt Ion: 266 Resp: 2616  
 Ion Ratio Lower Upper  
 266 100  
 268 76.8 50.1 75.1#  
 264 60.6 50.0 75.0

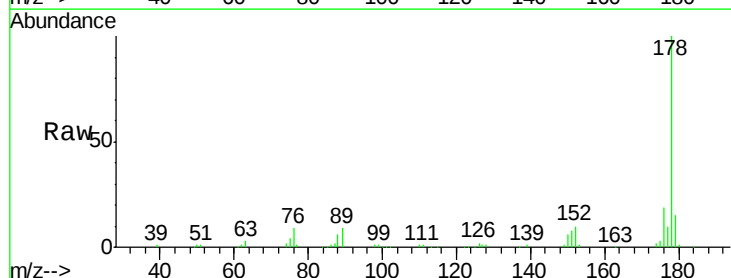


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

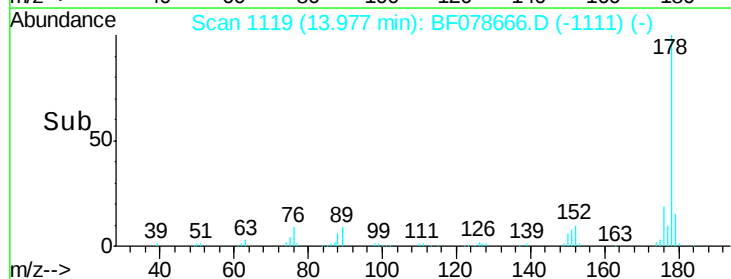
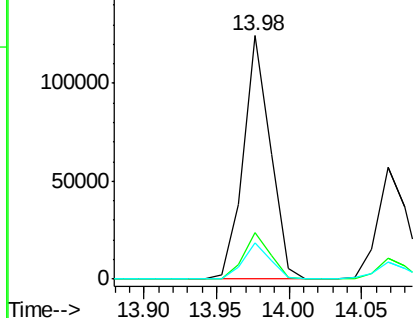


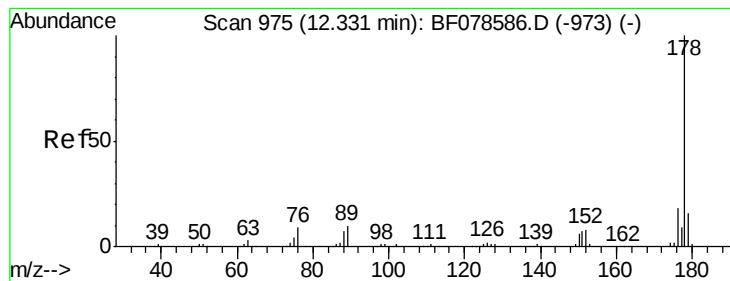
#70  
 Phenanthrene  
 Concen: 24.88 ng  
 RT: 13.98 min Scan# 1119  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion: 178 Resp: 160642  
 Ion Ratio Lower Upper  
 178 100  
 176 19.0 15.4 23.0  
 179 15.0 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 12.45 ng

RT: 14.07 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

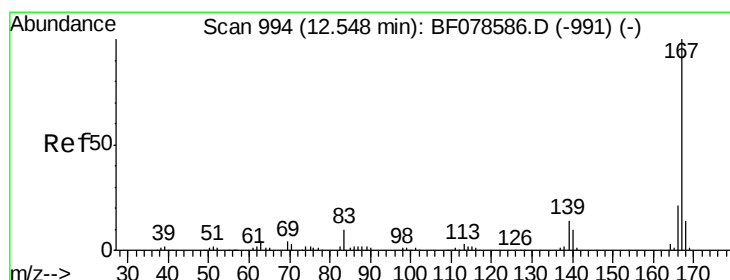
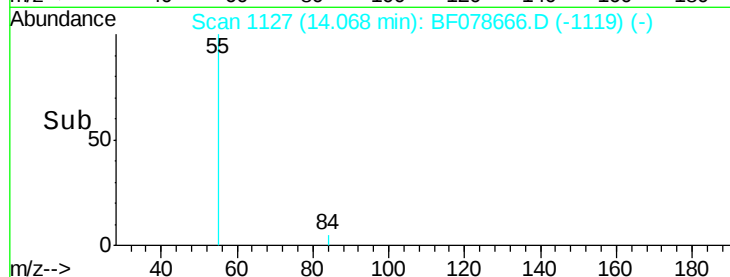
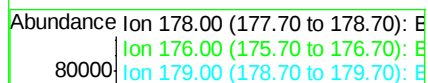
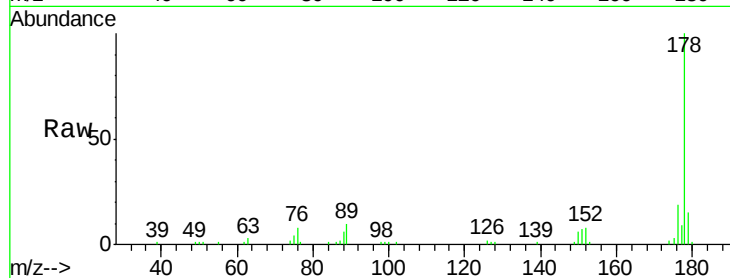
Tgt Ion:178 Resp: 79219

Ion Ratio Lower Upper

178 100

176 19.0 14.8 22.2

179 15.4 12.4 18.6



#72

Carbazole

Concen: 9.47 ng

RT: 14.40 min Scan# 1156

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

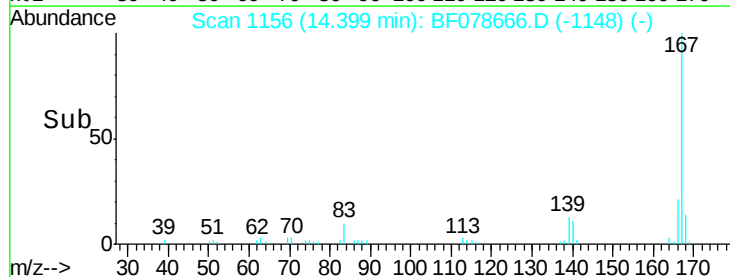
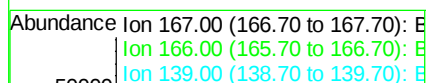
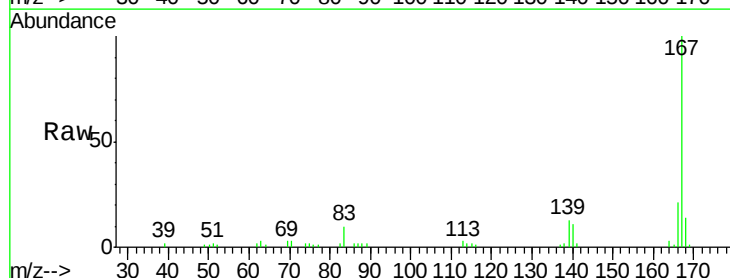
Tgt Ion:167 Resp: 56449

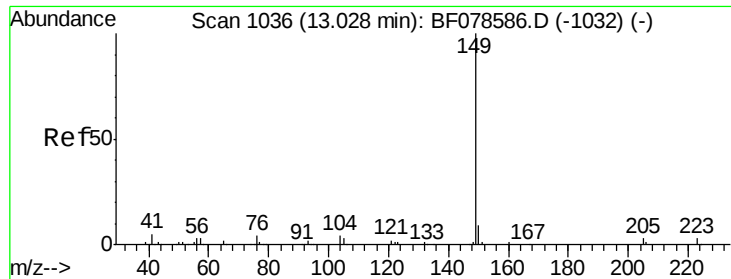
Ion Ratio Lower Upper

167 100

166 20.7 16.8 25.2

139 13.1 10.0 15.0

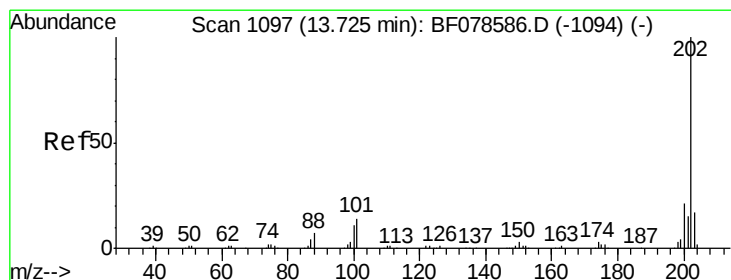
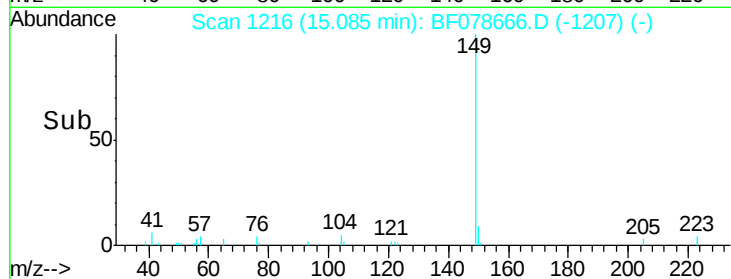
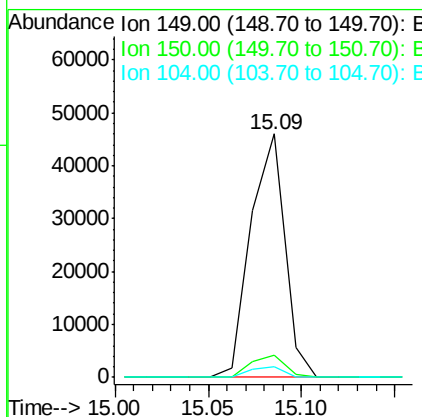
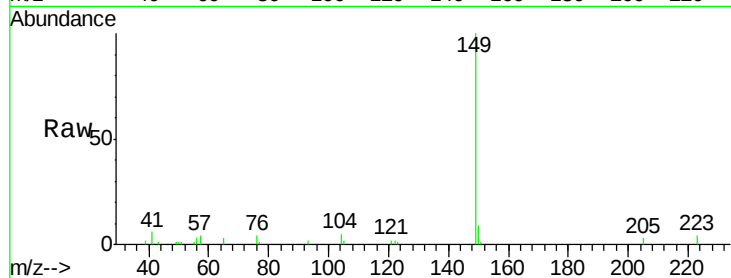




#73  
Di-n-butylphthalate  
Concen: 8.62 ng  
RT: 15.09 min Scan# 1216  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

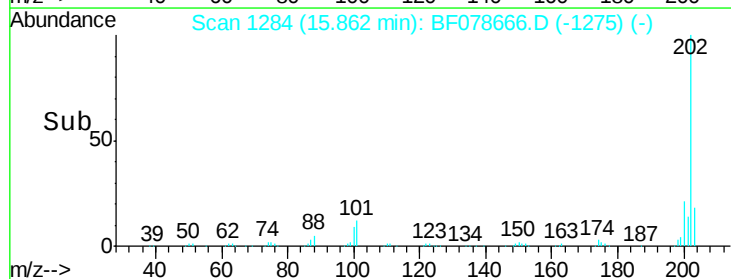
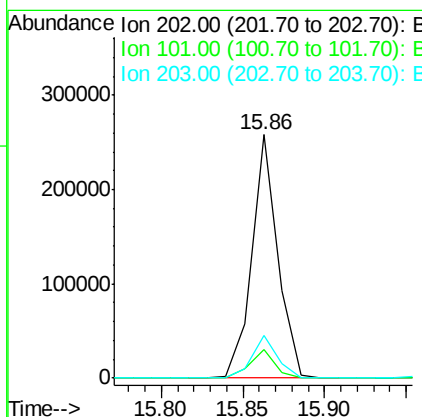
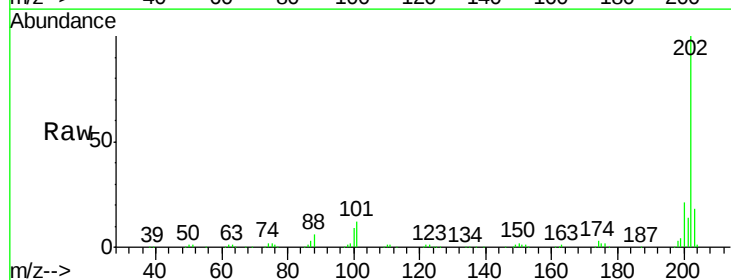
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

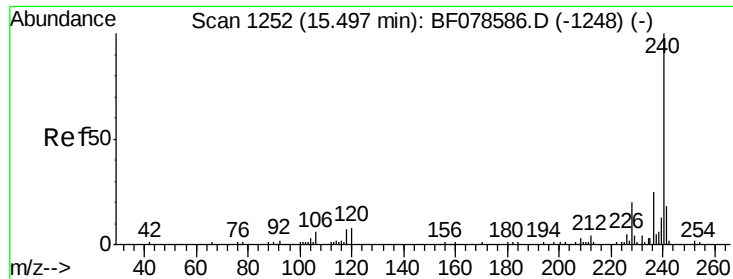
Tgt Ion:149 Resp: 58205  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.1 10.7  
104 4.5 3.8 5.6



#74  
Fluoranthene  
Concen: 41.76 ng  
RT: 15.86 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion:202 Resp: 284322  
Ion Ratio Lower Upper  
202 100  
101 11.7 0.0 35.2  
203 17.6 0.0 38.5

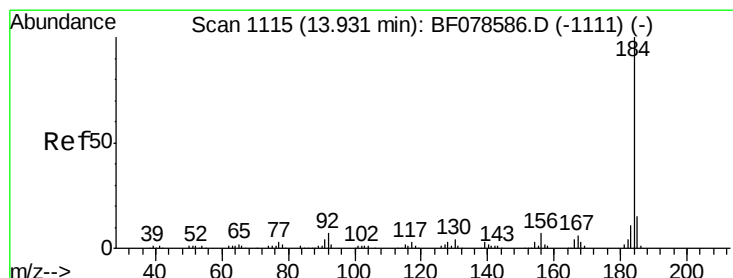
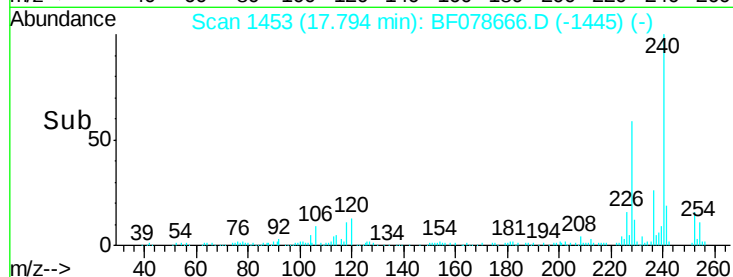
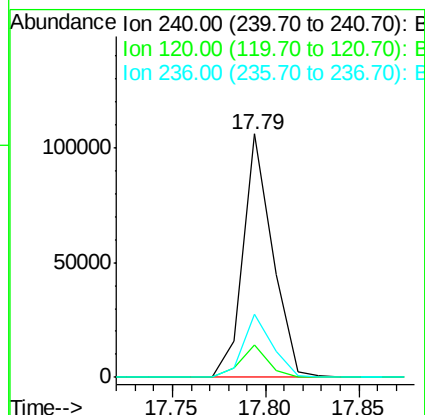
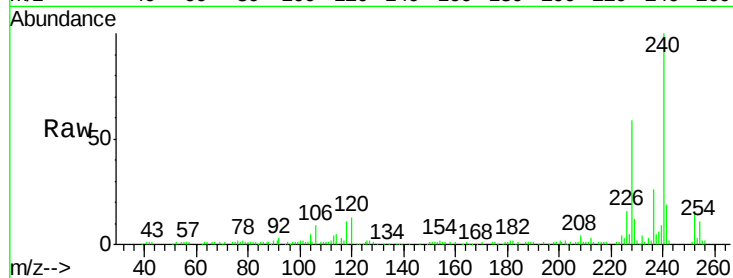




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 17.79 min Scan# 1453  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

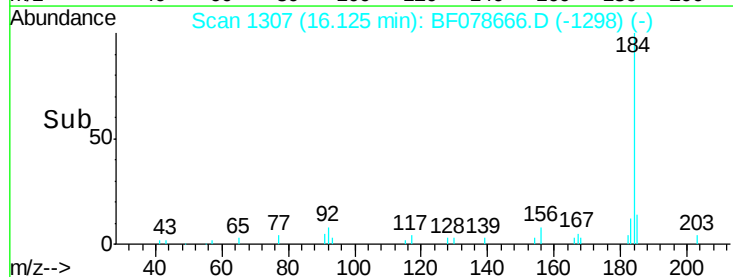
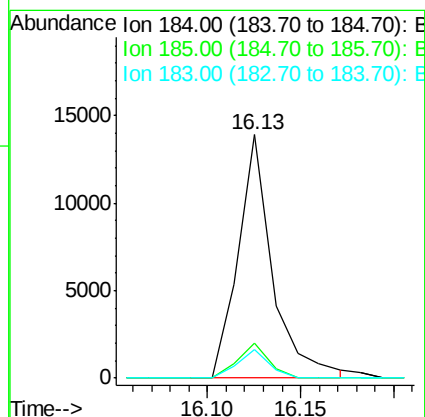
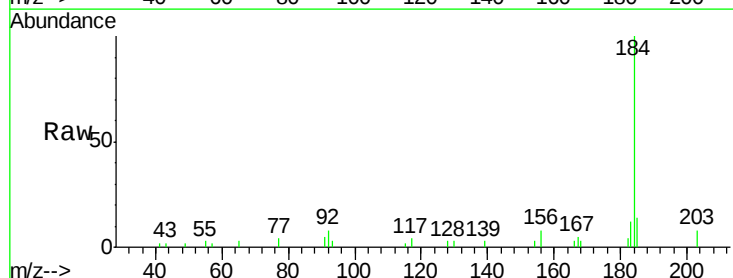
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

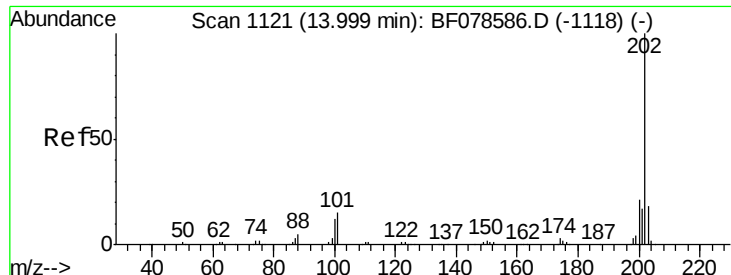
Tgt Ion:240 Resp: 116525  
Ion Ratio Lower Upper  
240 100  
120 13.1 7.1 10.7#  
236 25.8 21.4 32.2



#76  
Benzidine  
Concen: 3.97 ng  
RT: 16.13 min Scan# 1307  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion:184 Resp: 17831  
Ion Ratio Lower Upper  
184 100  
185 14.1 12.2 18.2  
183 11.7 9.5 14.3

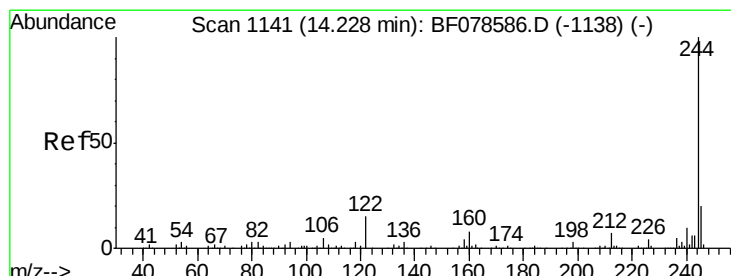
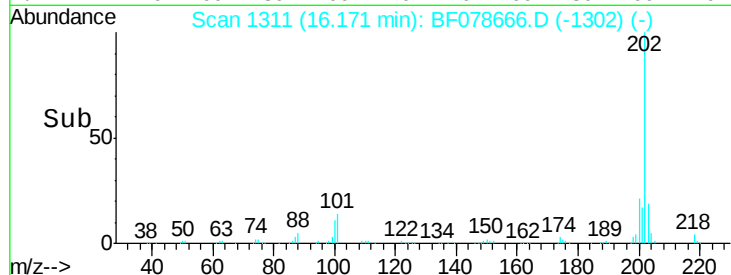
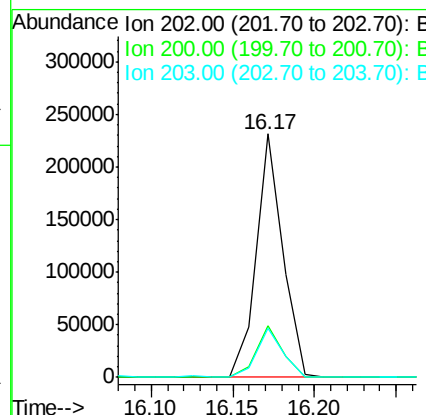
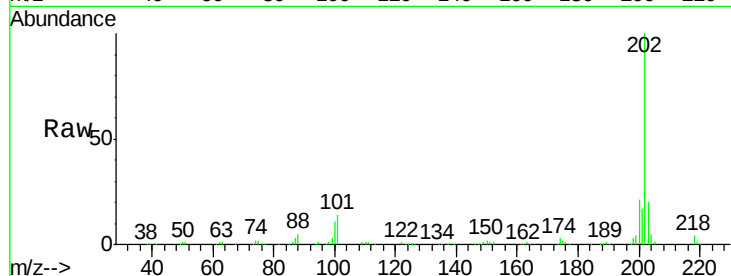




#77  
 Pyrene  
 Concen: 35.83 ng  
 RT: 16.17 min Scan# 1311  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

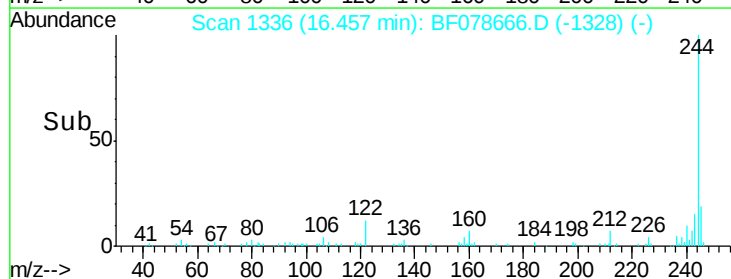
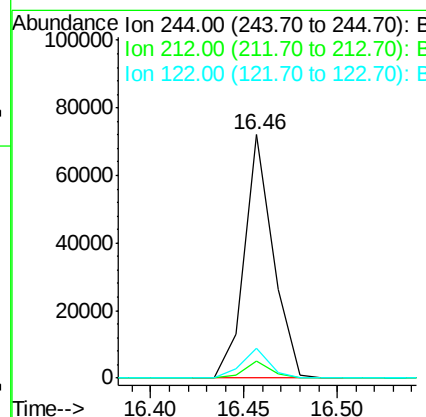
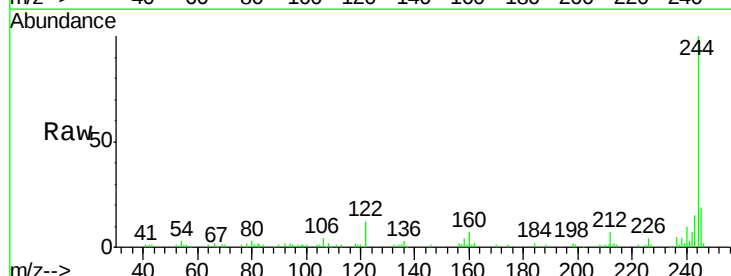
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

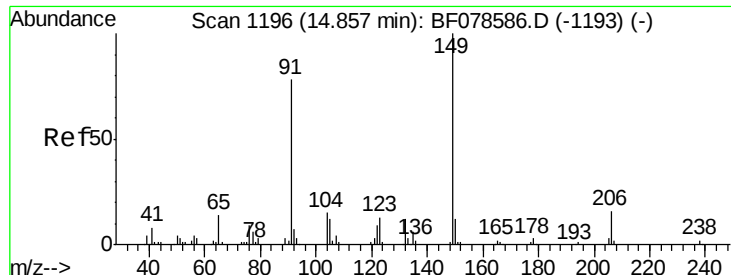
Tgt Ion: 202 Resp: 262076  
 Ion Ratio Lower Upper  
 202 100  
 200 21.1 16.3 24.5  
 203 20.1 13.8 20.6



#78  
 Terphenyl-d14  
 Concen: 14.92 ng  
 RT: 16.46 min Scan# 1336  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion: 244 Resp: 76950  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.0 7.4  
 122 12.1 7.1 10.7#

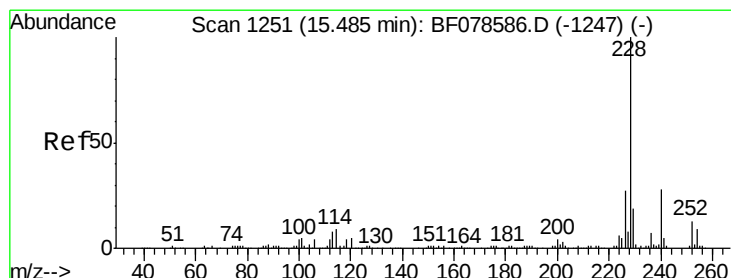
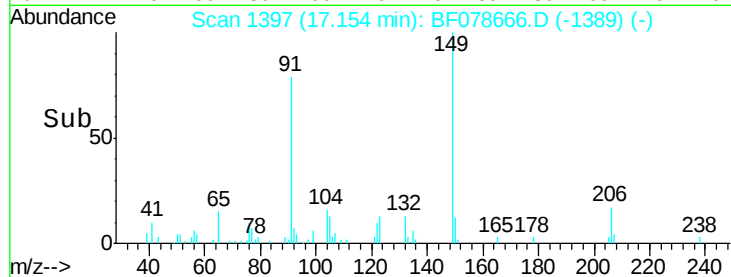
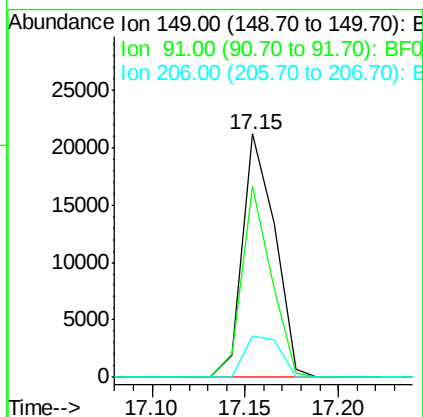
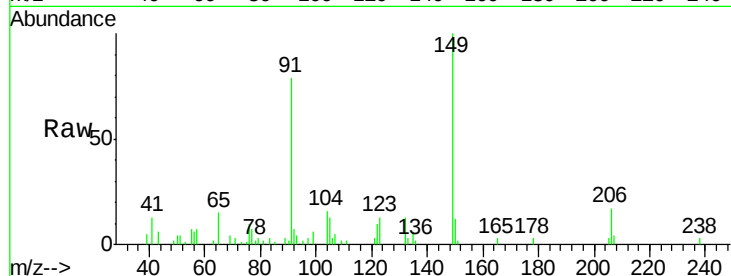




#79  
Butylbenzylphthalate  
Concen: 9.17 ng  
RT: 17.15 min Scan# 1397  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

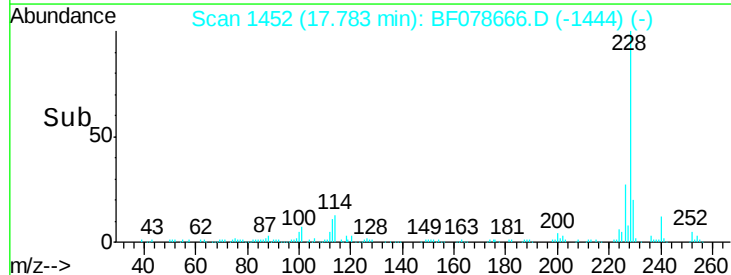
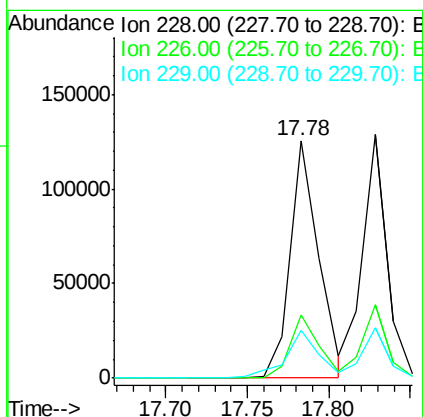
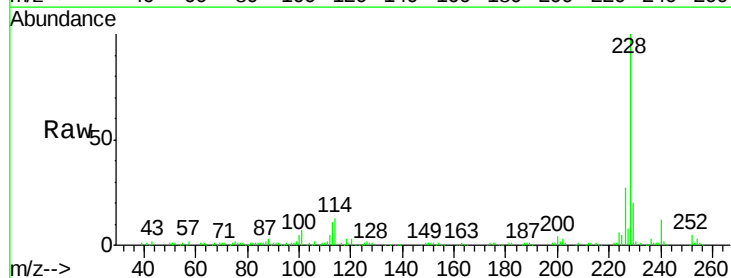
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

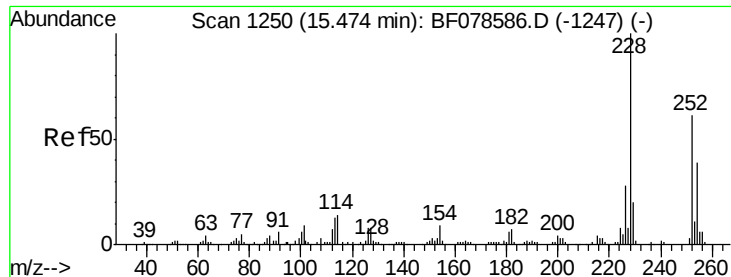
Tgt Ion:149 Resp: 25567  
Ion Ratio Lower Upper  
149 100  
91 78.5 64.2 96.2  
206 17.2 12.6 18.8



#80  
Benzo(a)anthracene  
Concen: 22.16 ng  
RT: 17.78 min Scan# 1452  
Delta R.T. -0.01 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion:228 Resp: 153645  
Ion Ratio Lower Upper  
228 100  
226 26.6 21.3 31.9  
229 19.9 15.4 23.2

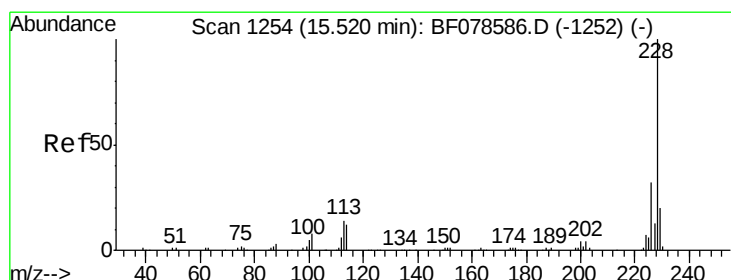
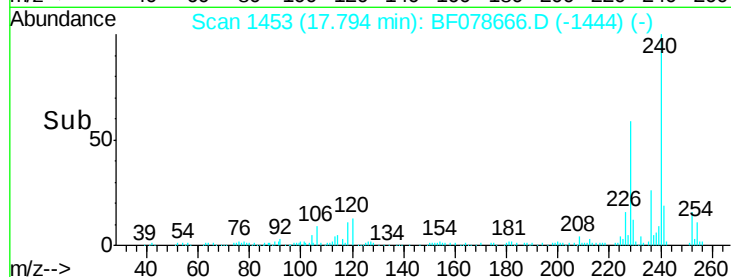
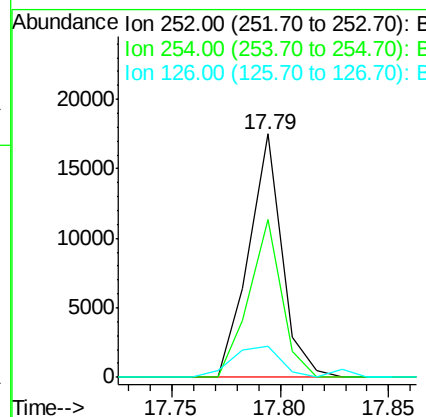
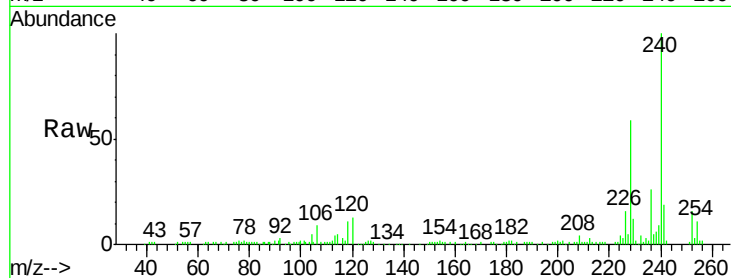




#81  
 3,3'-Dichlorobenzidine  
 Concen: 8.07 ng  
 RT: 17.79 min Scan# 1453  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

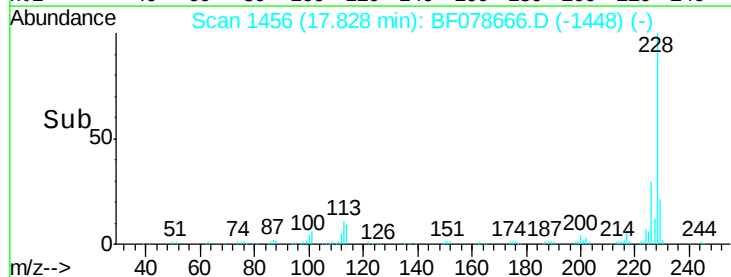
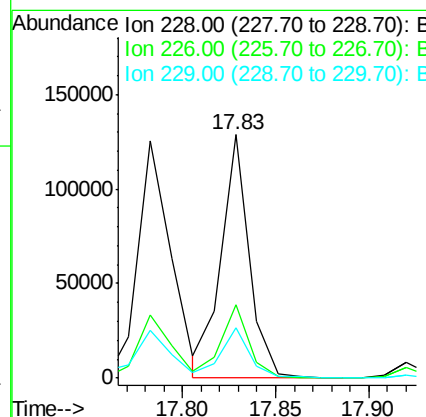
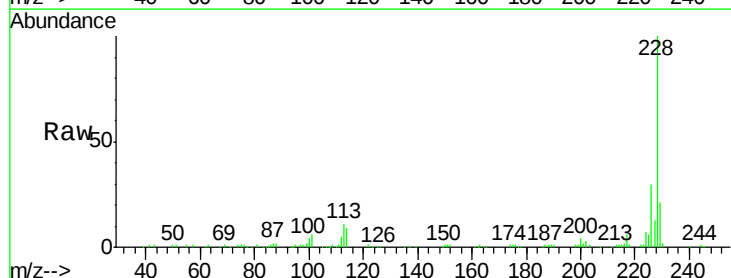
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

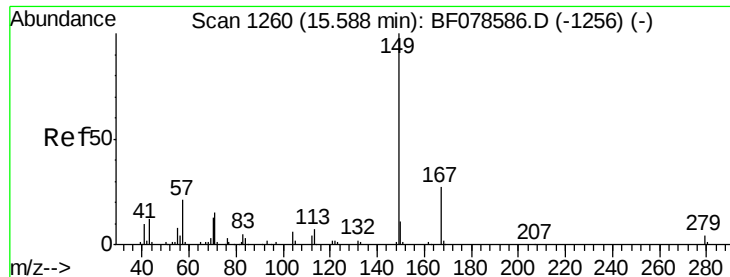
Tgt Ion: 252 Resp: 18732  
 Ion Ratio Lower Upper  
 252 100  
 254 64.7 51.2 76.8  
 126 13.0 6.3 9.5#



#82  
 Chrysene  
 Concen: 20.71 ng  
 RT: 17.83 min Scan# 1456  
 Delta R.T. -0.01 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

Tgt Ion: 228 Resp: 134882  
 Ion Ratio Lower Upper  
 228 100  
 226 29.9 24.2 36.4  
 229 20.6 15.8 23.8





#83

Bis(2-ethylhexyl)phthalate

Concen: 8.80 ng

RT: 17.92 min Scan# 1464

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

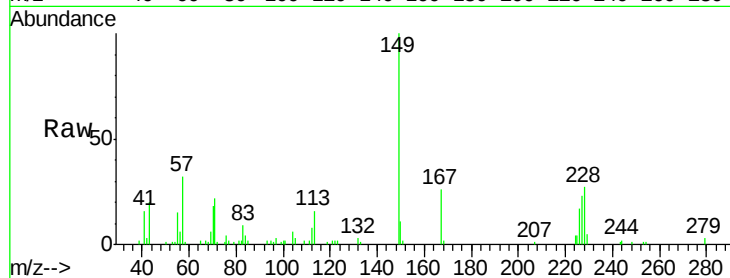
Tgt Ion:149 Resp: 38459

Ion Ratio Lower Upper

149 100

167 25.6 22.2 33.2

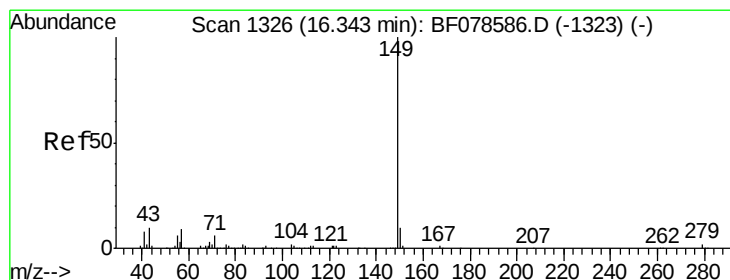
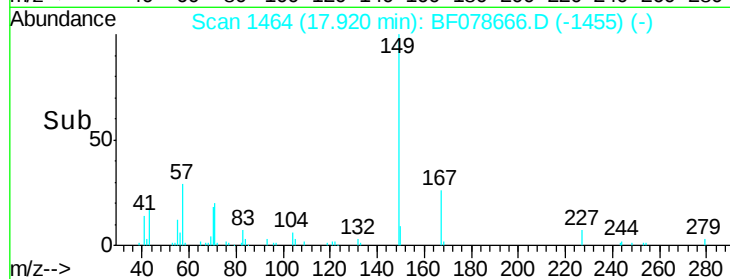
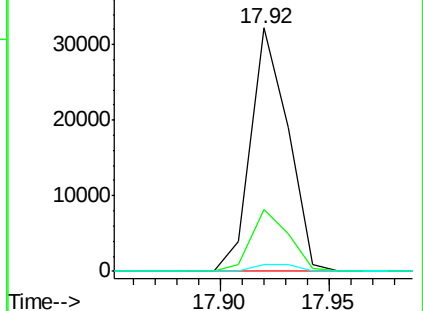
279 2.6 3.2 4.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 9.36 ng

RT: 18.70 min Scan# 1532

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

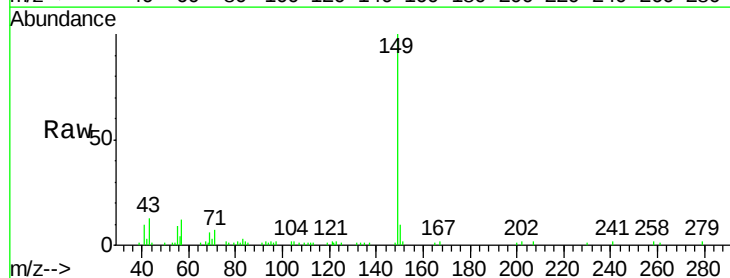
Tgt Ion:149 Resp: 67238

Ion Ratio Lower Upper

149 100

167 1.7 0.0 0.0#

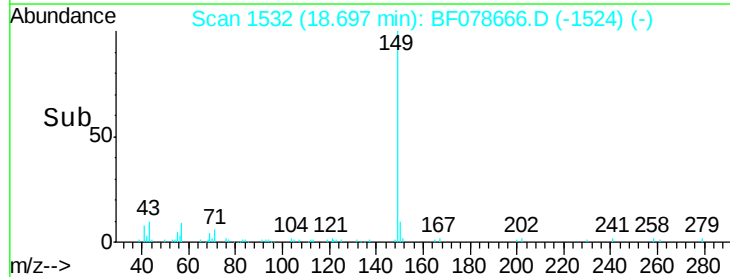
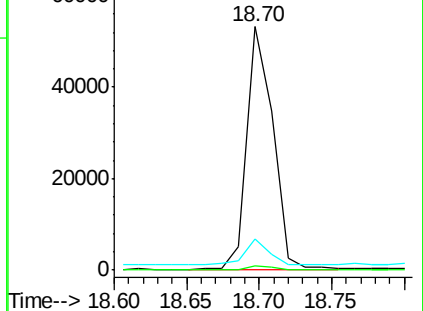
43 9.5 0.0 0.0#

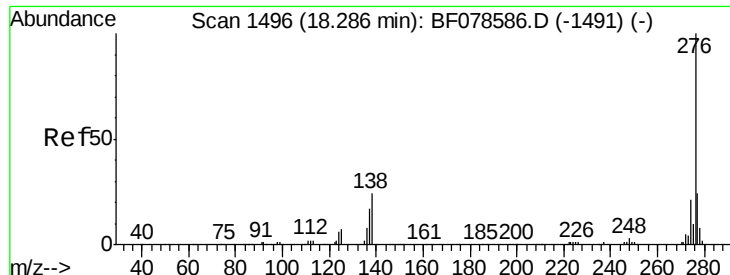


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

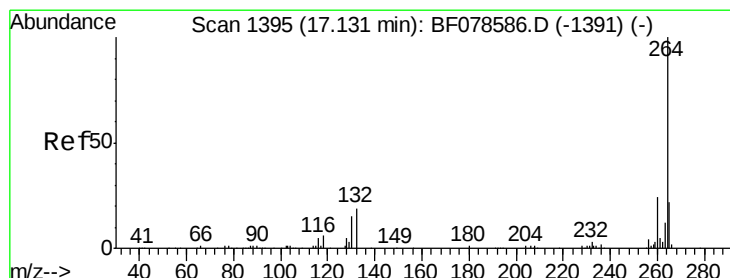
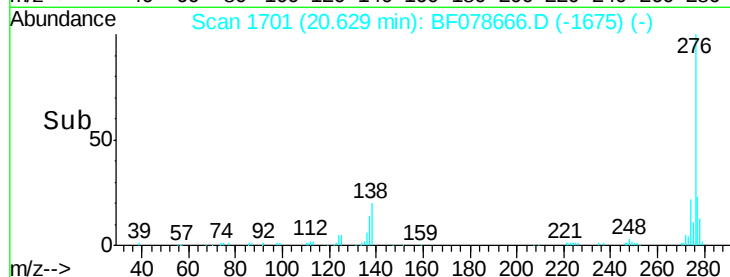
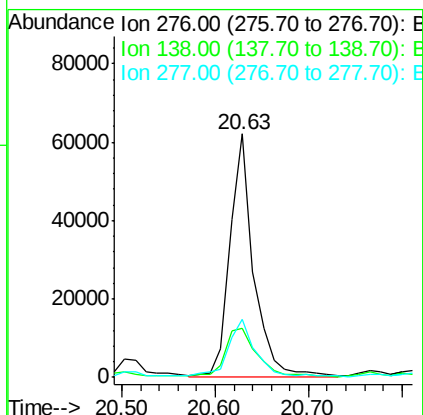
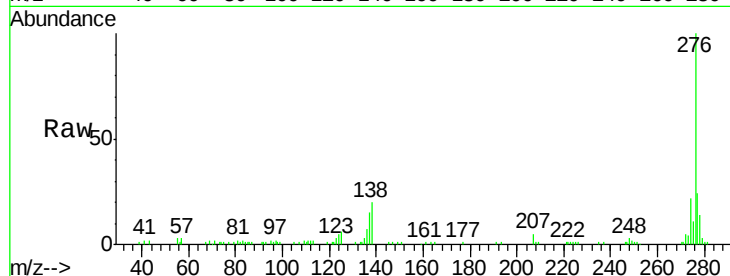




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 15.04 ng  
 RT: 20.63 min Scan# 1701  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

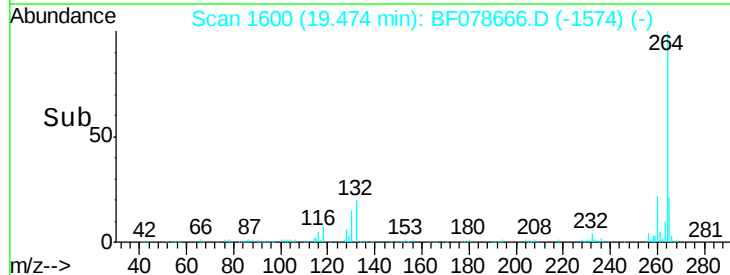
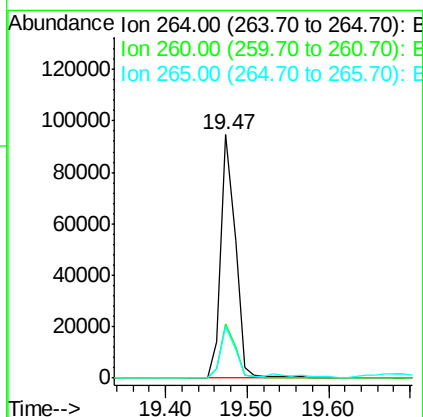
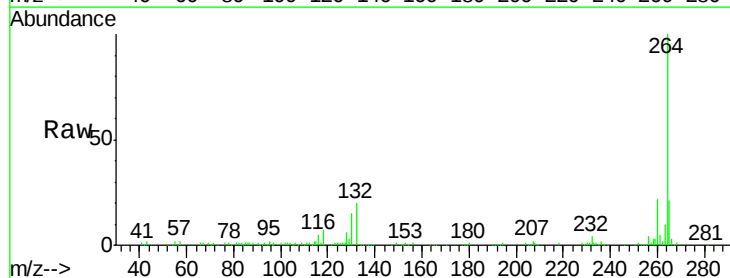
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A-1MS

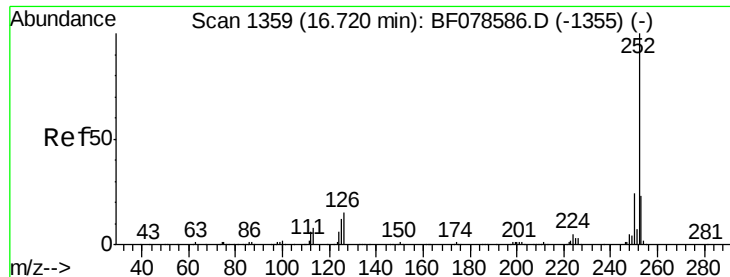
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.6  | 16.9  | 25.3# |
| 277     | 25.1  | 15.8  | 23.6# |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 19.47 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: BF078666.D  
 Acq: 21 Apr 2015 4:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.3  | 18.6  | 27.8  |
| 265     | 21.1  | 17.0  | 25.6  |

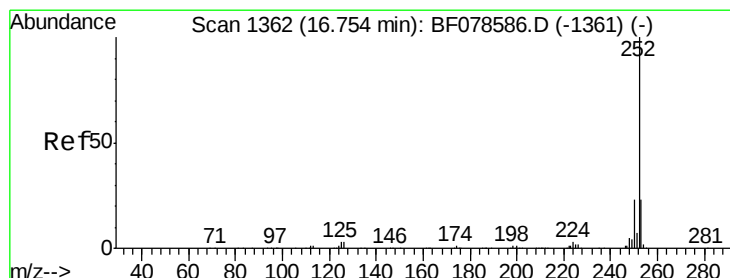
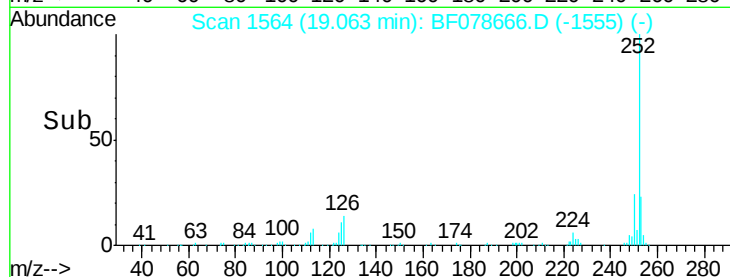
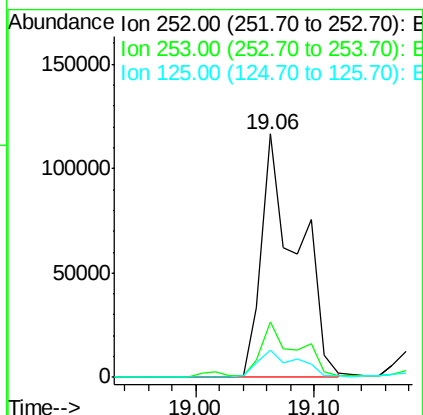
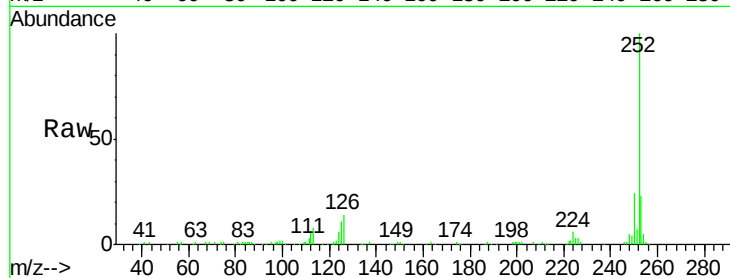




#87  
Benzo(b)fluoranthene  
Concen: 34.06 ng  
RT: 19.06 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

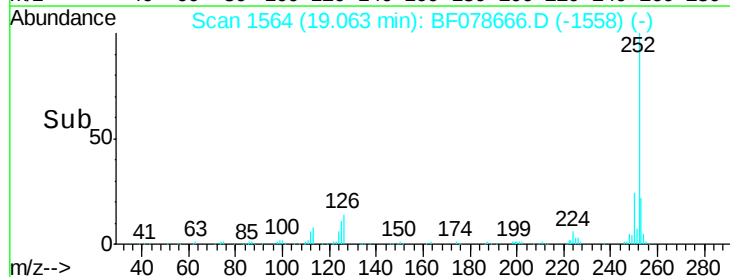
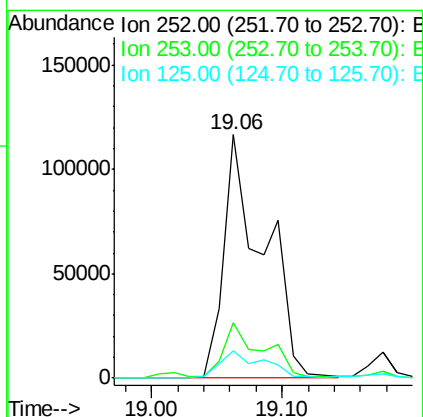
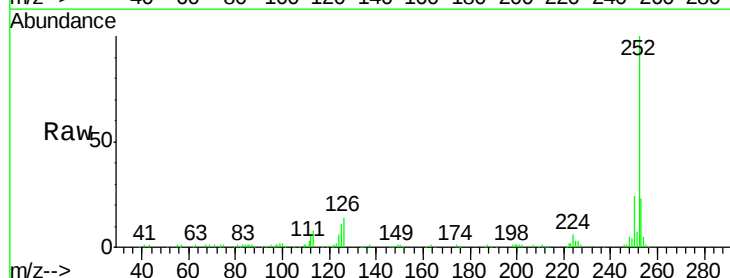
Instrument :  
BNA\_F  
ClientSampleId :  
SP-A-1MS

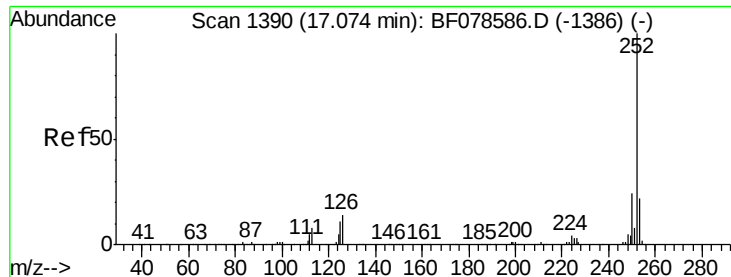
Tgt Ion: 252 Resp: 248497  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.2 25.8  
125 11.3 7.0 10.4#



#88  
Benzo(k)fluoranthene  
Concen: 38.48 ng  
RT: 19.06 min Scan# 1564  
Delta R.T. -0.03 min  
Lab File: BF078666.D  
Acq: 21 Apr 2015 4:20

Tgt Ion: 252 Resp: 249452  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.5 26.3  
125 11.3 11.6 17.4#





#89

Benzo(a)pyrene

Concen: 19.31 ng

RT: 19.42 min Scan# 1595

Delta R.T. -0.00 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

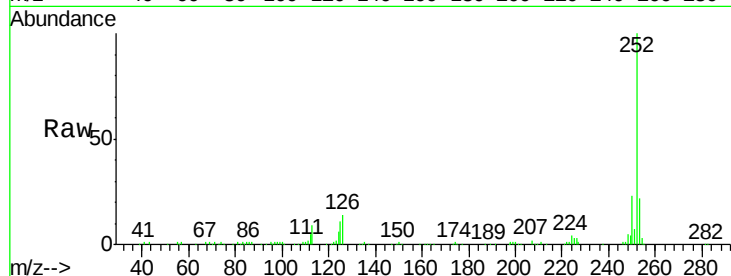
Tgt Ion:252 Resp: 122961

Ion Ratio Lower Upper

252 100

253 21.7 16.8 25.2

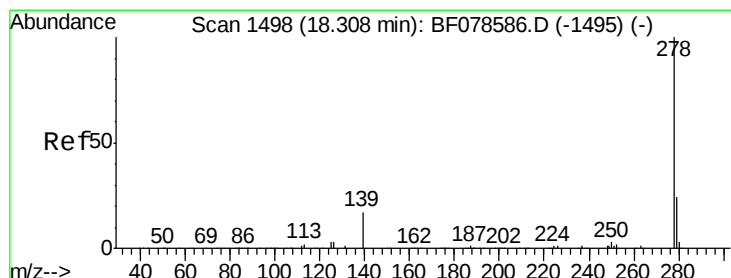
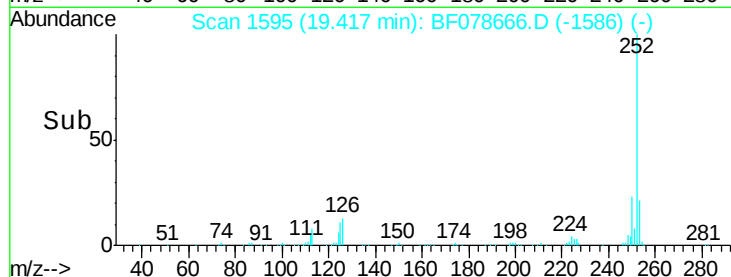
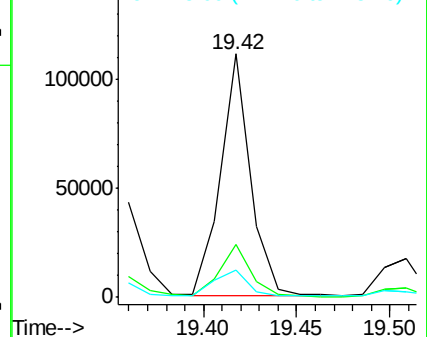
125 11.2 7.4 11.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 9.33 ng

RT: 20.65 min Scan# 1703

Delta R.T. 0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

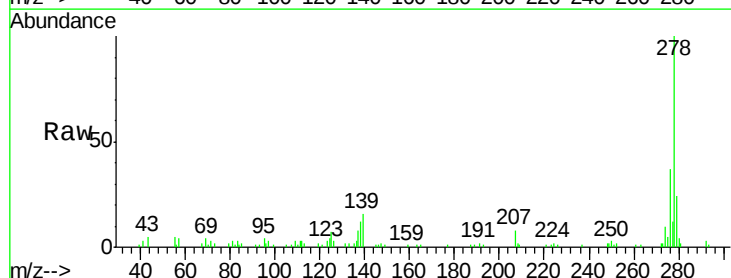
Tgt Ion:278 Resp: 59492

Ion Ratio Lower Upper

278 100

139 15.5 13.6 20.4

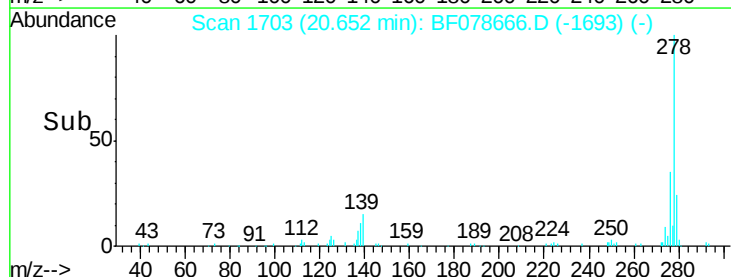
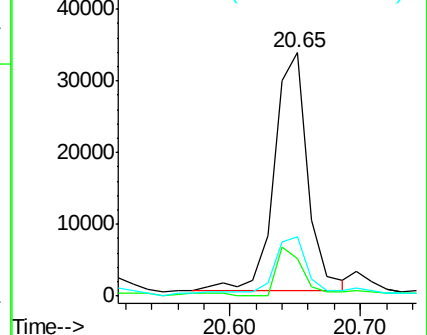
279 24.4 19.0 28.6

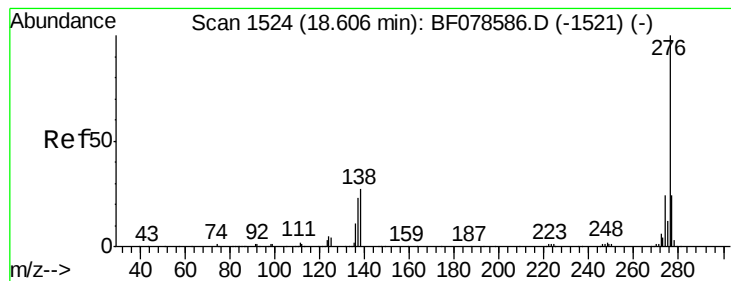


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 14.72 ng

RT: 20.94 min Scan# 1728

Delta R.T. -0.01 min

Lab File: BF078666.D

Acq: 21 Apr 2015 4:20

Instrument :

BNA\_F

ClientSampleId :

SP-A-1MS

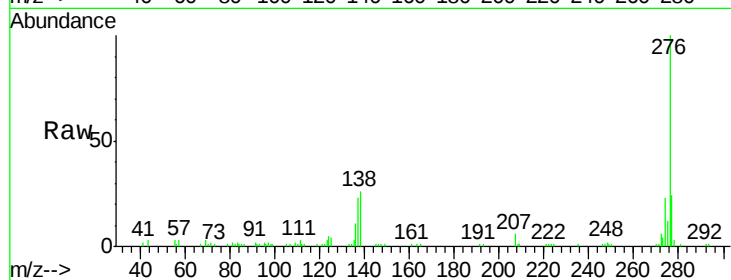
Tgt Ion: 276 Resp: 94084

Ion Ratio Lower Upper

276 100

277 24.1 19.0 28.4

138 26.5 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

