

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112715\  
 Data File : BF083332.D  
 Acq On : 27 Nov 2015 16:36  
 Operator : UM/IZ  
 Sample : SSTDICC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 27 17:01:07 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 27 16:54:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 540394   | 20.00 | ng    | 0.06     |
| 21) Naphthalene-d8        | 7.85  | 136  | 603338   | 20.00 | ng    | -0.10    |
| 38) Acenaphthene-d10      | 9.60  | 164  | 300789   | 20.00 | ng    | -0.10    |
| 63) Phenanthrene-d10      | 11.07 | 188  | 514502   | 20.00 | ng    | -0.10    |
| 75) Chrysene-d12          | 13.69 | 240  | 333024   | 20.00 | ng    | -0.11    |
| 86) Perylene-d12          | 15.03 | 264  | 348074   | 20.00 | ng    | -0.14    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.14  | 112  | 868150   | 24.29 | ng    | -0.14    |
| 7) Phenol-d6                | 6.24  | 99   | 1134228  | 24.53 | ng    | -0.10    |
| 23) Nitrobenzene-d5         | 7.14  | 82   | 1066346  | 80.76 | ng    | -0.09    |
| 41) 2,4,6-Tribromophenol    | 10.39 | 330  | 220089   | 71.52 | ng    | -0.10    |
| 44) 2-Fluorobiphenyl        | 8.94  | 172  | 1583094  | 73.39 | ng    | -0.09    |
| 78) Terphenyl-d14           | 12.65 | 244  | 1116599  | 78.96 | ng    | -0.11    |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 2.17 | 88   | 1931     | 0.11  | ng    | # 18   |
| 3) Pyridine                    | 3.24 | 79   | 930      | 0.02  | ng    | # 33   |
| 6) Aniline                     | 6.23 | 93   | 761848   | 13.48 | ng    | 98     |
| 8) 2-Chlorophenol              | 6.35 | 128  | 468110   | 12.12 | ng    | 96     |
| 9) Benzaldehyde                | 6.34 | 77   | 25327    | 1.05  | ng    | 85     |
| 10) Phenol                     | 6.31 | 94   | 26398    | 0.47  | ng    | # 1    |
| 11) bis(2-Chloroethyl)ether    | 6.31 | 93   | 487274   | 12.20 | ng    | 93     |
| 12) 1,3-Dichlorobenzene        | 6.58 | 146  | 537997   | 12.20 | ng    | 96     |
| 13) 1,4-Dichlorobenzene        | 6.74 | 146  | 455212   | 10.21 | ng    | 93     |
| 14) 1,2-Dichlorobenzene        | 6.74 | 146  | 455212   | 11.23 | ng    | 96     |
| 15) Benzyl Alcohol             | 6.73 | 79   | 452416   | 11.71 | ng    | 99     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.87 | 45   | 853220   | 13.70 | ng    | # 58   |
| 17) 2-Methylphenol             | 6.86 | 107  | 387399   | 12.12 | ng    | 92     |
| 18) Hexachloroethane           | 7.07 | 117  | 183230   | 11.66 | ng    | # 80   |
| 19) n-Nitroso-di-n-propylamine | 7.14 | 70   | 145958   | 4.53  | ng    | # 80   |
| 20) 3+4-Methylphenols          | 7.02 | 107  | 509056   | 12.60 | ng    | 98     |
| 22) Acetophenone               | 6.99 | 105  | 694183   | 40.08 | ng    | # 94   |
| 24) Nitrobenzene               | 7.15 | 77   | 531708   | 37.69 | ng    | 95     |
| 25) Isophorone                 | 7.40 | 82   | 1010753  | 40.43 | ng    | 99     |
| 26) 2-Nitrophenol              | 7.47 | 139  | 229915   | 36.91 | ng    | # 80   |
| 27) 2,4-Dimethylphenol         | 7.54 | 122  | 405220   | 40.77 | ng    | 92     |
| 28) bis(2-Chloroethoxy)methane | 7.62 | 93   | 575444   | 39.59 | ng    | 99     |
| 29) 2,4-Dichlorophenol         | 7.72 | 162  | 363189   | 38.42 | ng    | 92     |
| 30) 1,2,4-Trichlorobenzene     | 7.80 | 180  | 409954   | 39.48 | ng    | 97     |
| 31) Naphthalene                | 7.87 | 128  | 1219132  | 37.44 | ng    | 99     |
| 32) Benzoic acid               | 7.68 | 122  | 189140   | 24.48 | ng    | 94     |
| 33) 4-Chloroaniline            | 7.94 | 127  | 560525   | 44.37 | ng    | # 88   |
| 34) Hexachlorobutadiene        | 8.00 | 225  | 227190   | 37.02 | ng    | 98     |
| 35) Caprolactam                | 8.32 | 113  | 112051   | 36.98 | ng    | 97     |
| 36) 4-Chloro-3-methylphenol    | 8.44 | 107  | 388883   | 35.51 | ng    | 95     |
| 37) 2-Methylnaphthalene        | 8.57 | 142  | 845156   | 39.99 | ng    | 96     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.73 | 216  | 362631   | 37.20 | ng    | 99     |
| 40) Hexachlorocyclopentadiene  | 8.73 | 237  | 174285   | 31.44 | ng    | 97     |
| 42) 2,4,6-Trichlorophenol      | 8.86 | 196  | 267190   | 38.27 | ng    | 97     |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112715\  
 Data File : BF083332.D  
 Acq On : 27 Nov 2015 16:36  
 Operator : UM/IZ  
 Sample : SSTDICC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

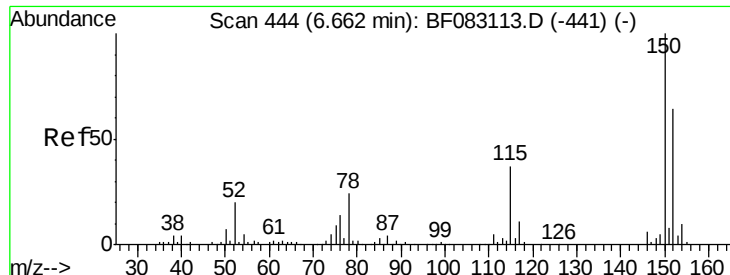
Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 27 17:01:07 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 27 16:54:01 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 43) 2,4,5-Trichlorophenol      | 8.90  | 196  | 273345   | 38.29 | nq    | 96       |
| 45) 1,1'-Biphenyl              | 9.03  | 154  | 951938   | 37.18 | nq    | 95       |
| 46) 2-Chloronaphthalene        | 9.05  | 162  | 758973   | 37.74 | nq    | 94       |
| 47) 2-Nitroaniline             | 9.15  | 65   | 280842   | 39.48 | nq    | 95       |
| 48) Acenaphthylene             | 9.46  | 152  | 1237031  | 39.70 | nq    | 99       |
| 49) Dimethylphthalate          | 9.35  | 163  | 923095   | 39.86 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.40  | 165  | 203330   | 39.13 | nq    | # 63     |
| 51) Acenaphthene               | 9.63  | 154  | 728381   | 38.41 | nq    | 99       |
| 52) 3-Nitroaniline             | 9.58  | 138  | 213452   | 38.53 | nq    | 99       |
| 53) 2,4-Dinitrophenol          | 9.68  | 184  | 71269    | 23.81 | nq    | # 80     |
| 54) Dibenzofuran               | 9.80  | 168  | 1010518  | 37.68 | nq    | 99       |
| 55) 4-Nitrophenol              | 9.76  | 139  | 128234   | 30.19 | nq    | # 82     |
| 56) 2,4-Dinitrotoluene         | 9.80  | 165  | 261137   | 39.66 | nq    | # 83     |
| 57) Fluorene                   | 10.15 | 166  | 850642   | 38.38 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 9.93  | 232  | 205530   | 35.09 | nq    | 99       |
| 59) Diethylphthalate           | 10.03 | 149  | 799258   | 34.67 | nq    | 95       |
| 60) 4-Chlorophenyl-phenylether | 10.15 | 204  | 381926   | 37.63 | nq    | # 79     |
| 61) 4-Nitroaniline             | 10.18 | 138  | 212976   | 39.05 | nq    | 95       |
| 62) Azobenzene                 | 10.30 | 77   | 1006960  | 38.27 | nq    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 10.20 | 198  | 119595   | 33.74 | nq    | # 49     |
| 65) n-Nitrosodiphenylamine     | 10.26 | 169  | 696046   | 39.78 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 237497   | 41.60 | nq    | 93       |
| 67) Hexachlorobenzene          | 10.68 | 284  | 239407   | 38.08 | nq    | # 82     |
| 68) Atrazine                   | 10.80 | 200  | 211867   | 41.69 | nq    | 99       |
| 69) Pentachlorophenol          | 10.89 | 266  | 120954   | 29.54 | nq    | 99       |
| 70) Phenanthrene               | 11.10 | 178  | 1204891  | 40.65 | nq    | 99       |
| 71) Anthracene                 | 11.14 | 178  | 1122554  | 37.12 | nq    | 98       |
| 72) Carbazole                  | 11.31 | 167  | 981968   | 36.53 | nq    | 97       |
| 73) Di-n-butylphthalate        | 11.66 | 149  | 1211116  | 36.91 | nq    | # 97     |
| 74) Fluoranthene               | 12.27 | 202  | 1072460  | 35.35 | nq    | 98       |
| 76) Benzidine                  | 12.41 | 184  | 424701   | 48.66 | nq    | 99       |
| 77) Pyrene                     | 12.50 | 202  | 1022182  | 44.93 | nq    | 98       |
| 79) Butylbenzylphthalate       | 13.13 | 149  | 358478   | 33.29 | nq    | # 84     |
| 80) Benzo(a)anthracene         | 13.68 | 228  | 785357   | 38.13 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.66 | 252  | 269467   | 37.59 | nq    | # 98     |
| 82) Chrysene                   | 13.71 | 228  | 669715   | 35.06 | nq    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.70 | 149  | 499278   | 35.50 | nq    | # 97     |
| 84) Di-n-octyl phthalate       | 14.31 | 149  | 872923   | 36.06 | nq    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.25 | 276  | 980307   | 56.43 | nq    | 96       |
| 87) Benzo(b)fluoranthene       | 14.71 | 252  | 1451559  | 61.03 | nq    | 99       |
| 88) Benzo(k)fluoranthene       | 14.71 | 252  | 1451559  | 81.92 | nq    | # 98     |
| 89) Benzo(a)pyrene             | 14.98 | 252  | 725027   | 36.92 | nq    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 16.26 | 278  | 820572   | 46.01 | nq    | 100      |
| 91) Benzo(g,h,i)perylene       | 16.61 | 276  | 830820   | 47.72 | nq    | # 94     |

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



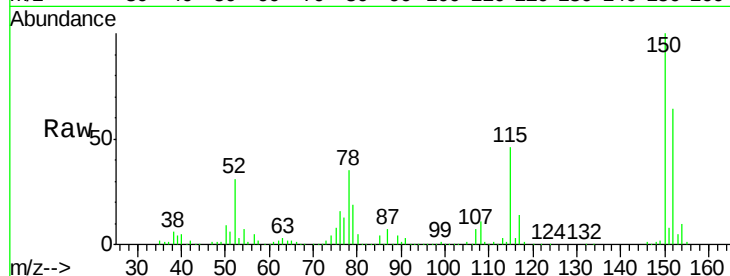


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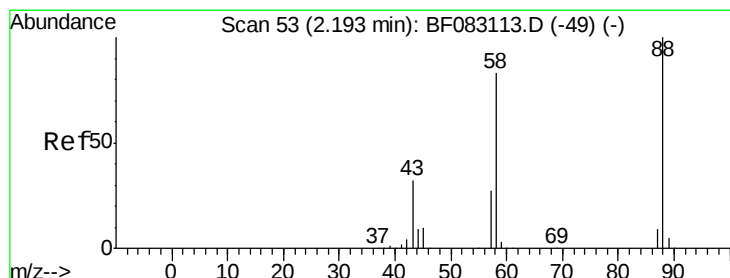
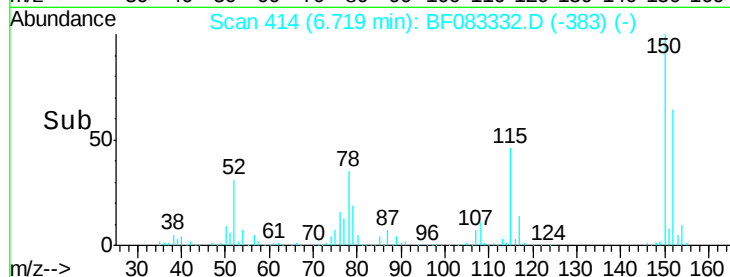
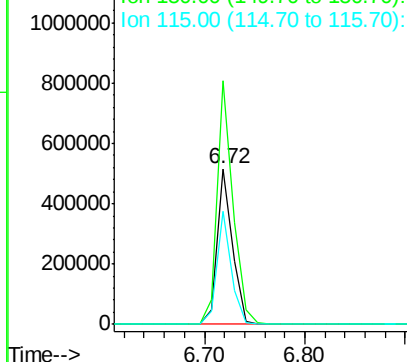
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 414  
Delta R.T. 0.06 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 540394  
Ion Ratio Lower Upper  
152 100  
150 156.8 125.8 188.8  
115 72.9 46.9 70.3#



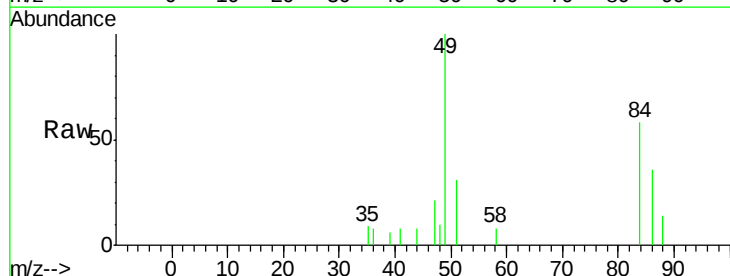
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



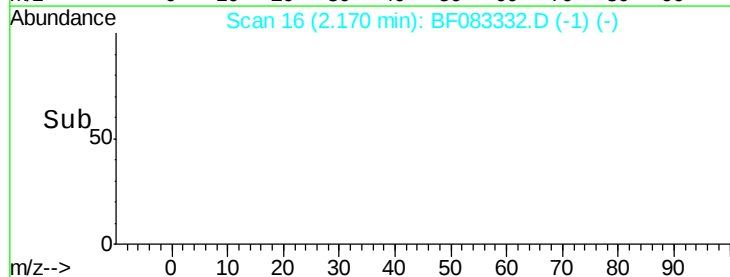
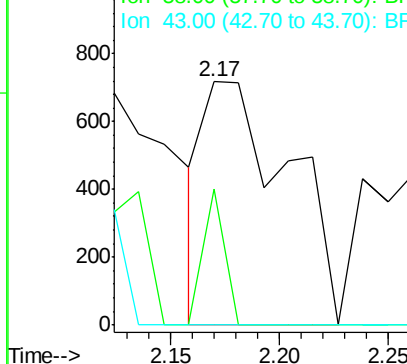
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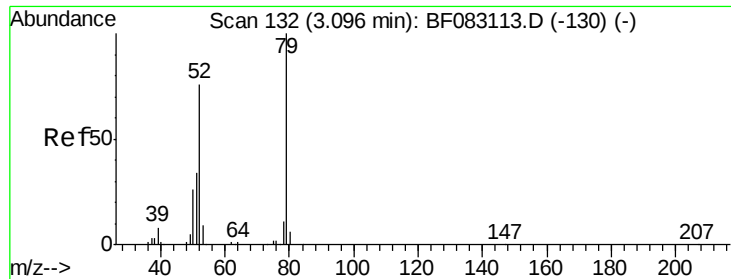
1,4-Dioxane  
Concen: 0.11 ng  
RT: 2.17 min Scan# 16  
Delta R.T. -0.02 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion: 88 Resp: 1931  
Ion Ratio Lower Upper  
88 100  
58 0.0 65.0 97.6#  
43 0.0 24.7 37.1#



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

Pvridine

Concen: 0.02 ng

RT: 3.24 min Scan# 110

Delta R.T. 0.15 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampled :

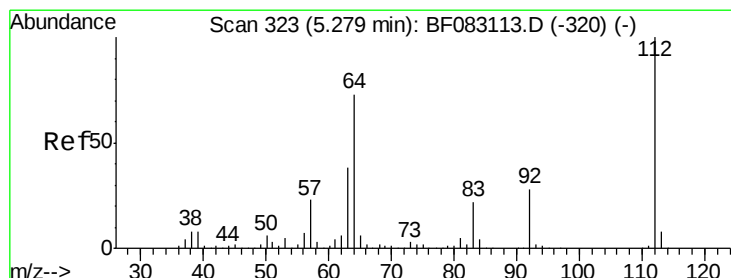
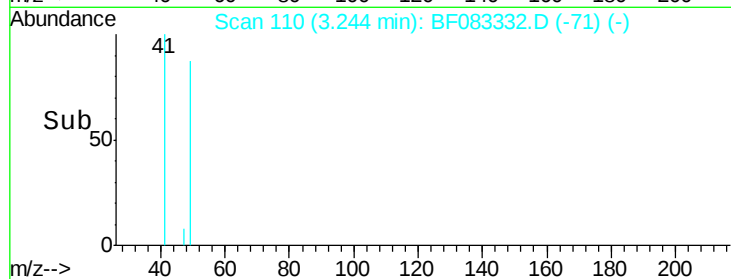
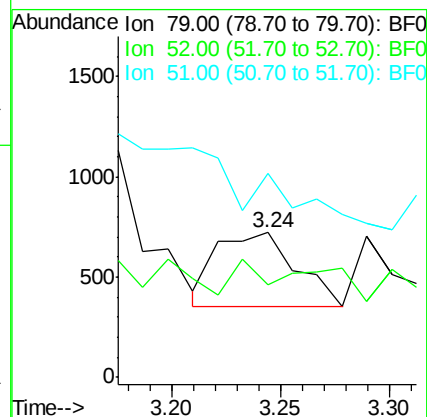
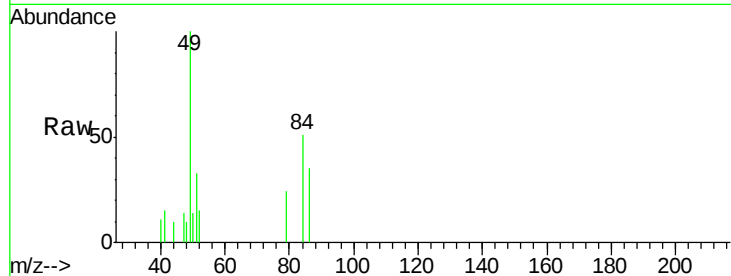
Tot Ion: 79 Resp: 930

Ion Ratio Lower Upper

79 100

52 64.0 60.7 91.1

51 140.7 27.9 41.9#



#5

2-Fluorophenol

Concen: 24.29 ng

RT: 5.14 min Scan# 276

Delta R.T. -0.14 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

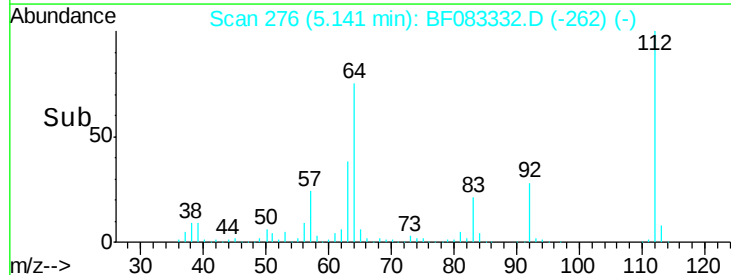
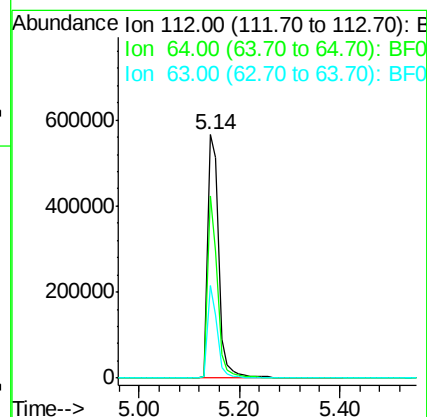
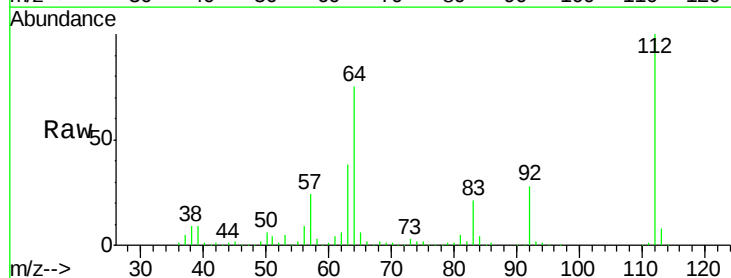
Tgt Ion: 112 Resp: 868150

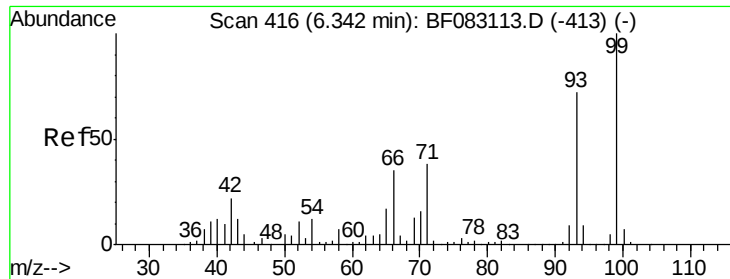
Ion Ratio Lower Upper

112 100

64 74.9 58.4 87.6

63 38.2 30.0 45.0





#6

Aniline

Concen: 13.48 ng

RT: 6.23 min Scan# 371

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampled :

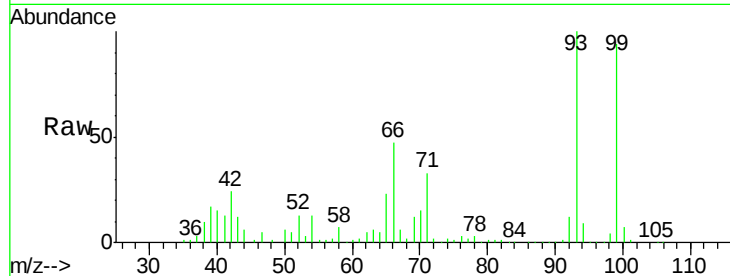
Tot Ion: 93 Resp: 761848

Ion Ratio Lower Upper

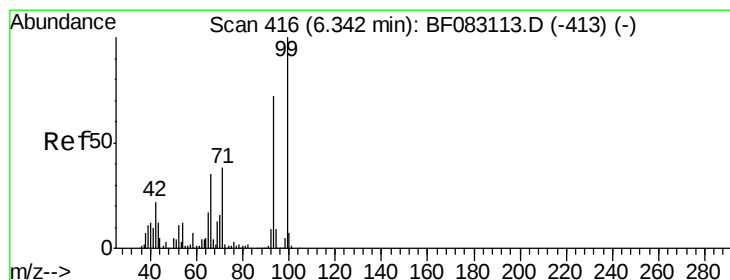
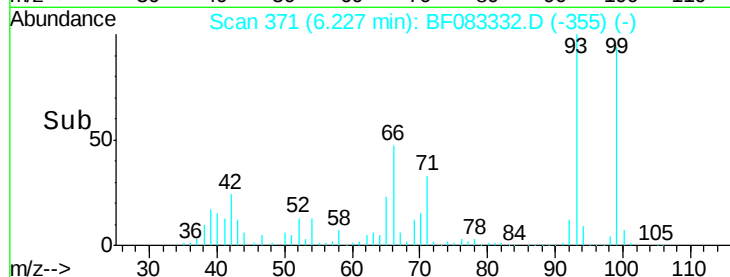
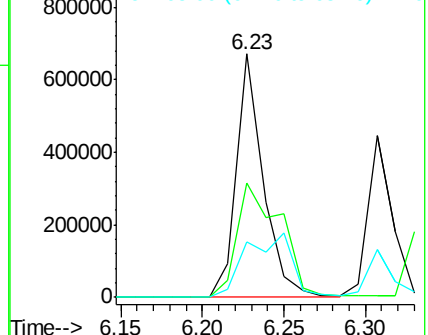
93 100

66 46.7 38.7 58.1

65 22.8 18.6 27.8



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: 24.53 ng

RT: 6.24 min Scan# 372

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

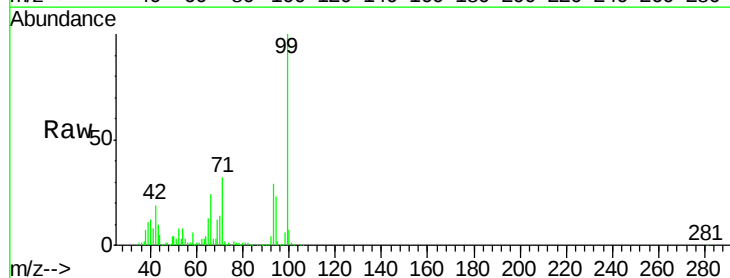
Tgt Ion: 99 Resp: 1134228

Ion Ratio Lower Upper

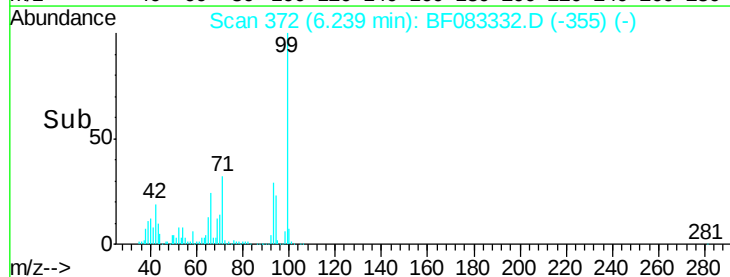
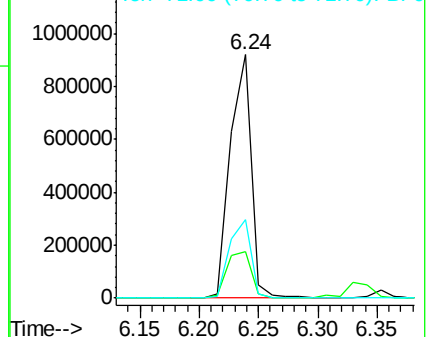
99 100

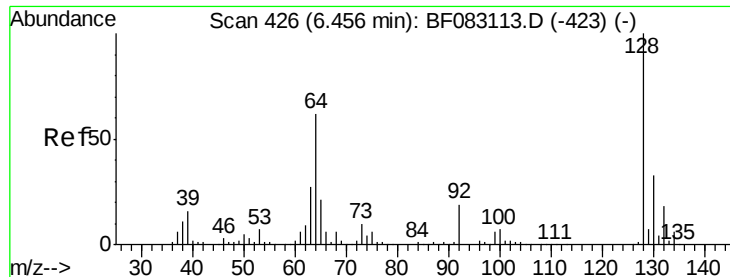
42 19.4 17.7 26.5

71 32.2 30.2 45.4



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: 12.12 ng

RT: 6.35 min Scan# 382

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

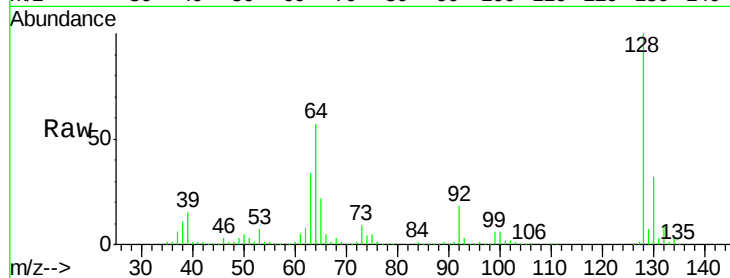
Tot Ion:128 Resp: 468110

Ion Ratio Lower Upper

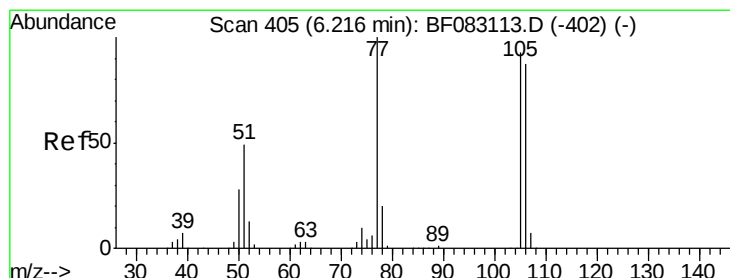
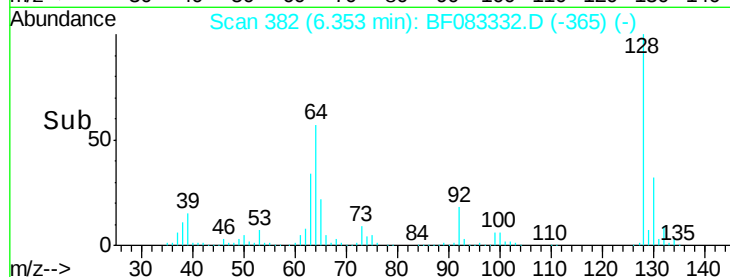
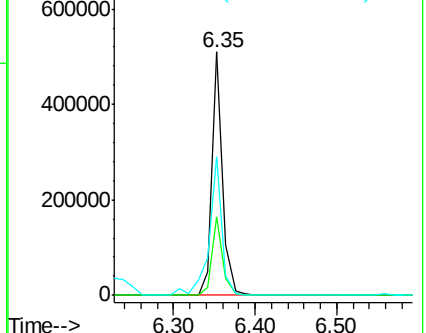
128 100

130 32.4 12.6 52.6

64 57.2 41.9 81.9



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): BFO



#9

Benzaldehyde

Concen: 1.05 ng

RT: 6.34 min Scan# 381

Delta R.T. 0.13 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

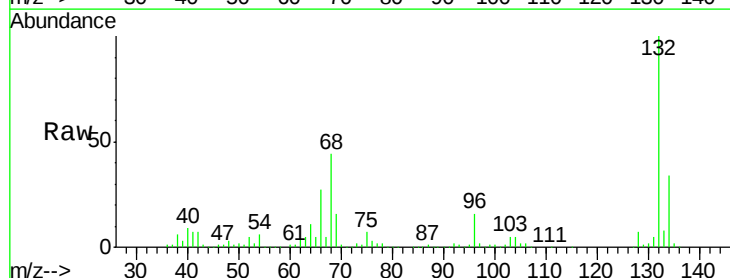
Tgt Ion: 77 Resp: 25327

Ion Ratio Lower Upper

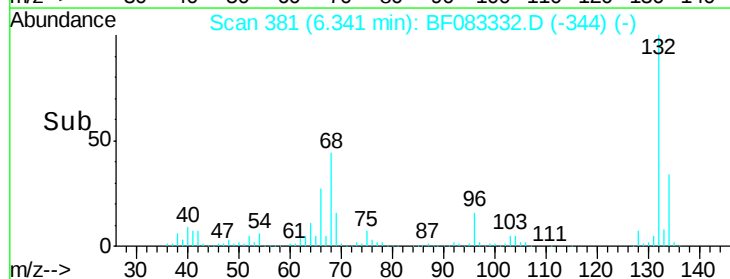
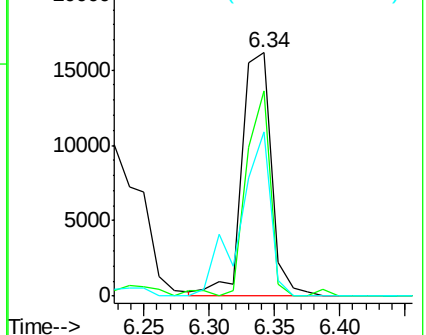
77 100

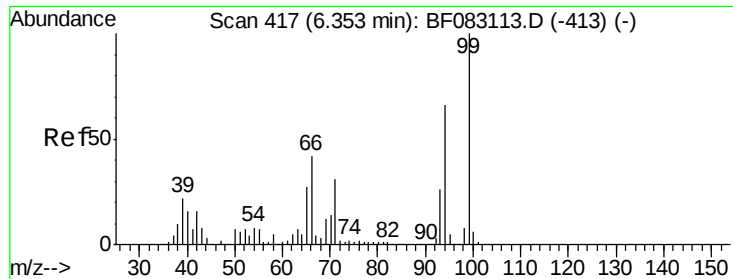
105 84.1 73.4 113.4

106 67.6 67.5 107.5



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





#10

Phenol

Concen: 0.47 ng

RT: 6.31 min Scan# 378

Delta R.T. -0.05 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

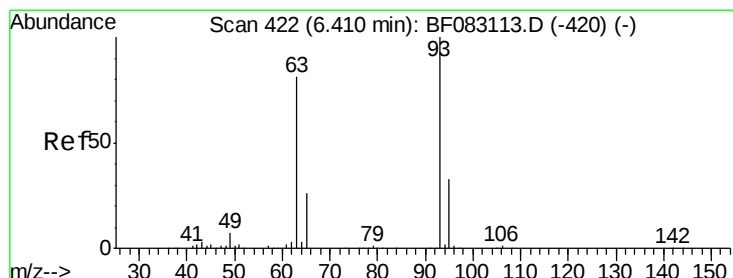
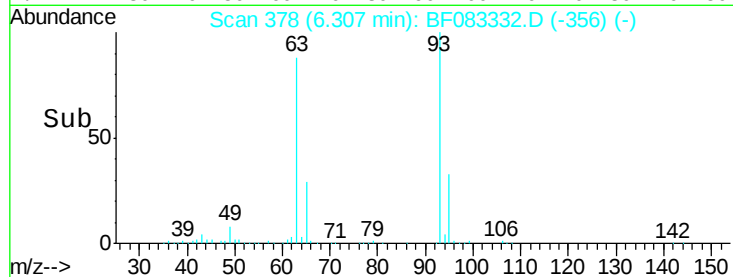
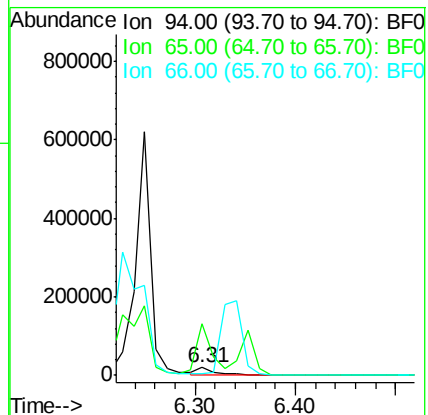
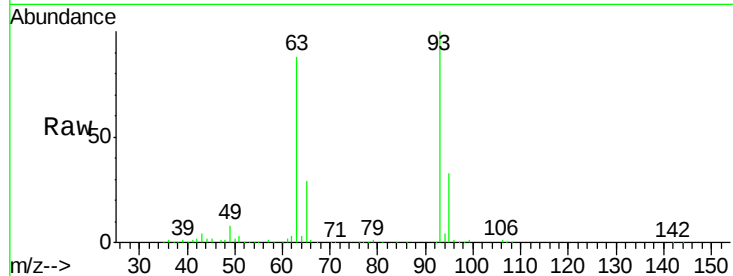
Tot Ion: 94 Resp: 26398

Ion Ratio Lower Upper

94 100

65 674.8 21.1 61.1#

66 24.1 43.1 83.1#



#11

bis(2-Chloroethyl)ether

Concen: 12.20 ng

RT: 6.31 min Scan# 378

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

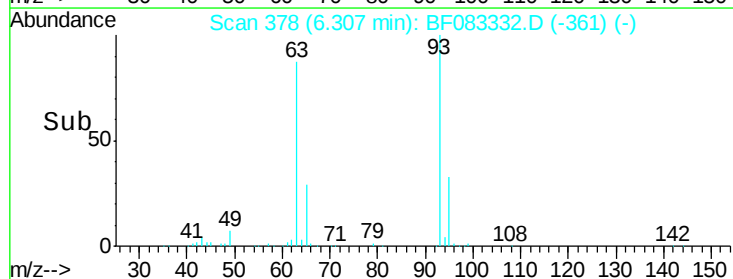
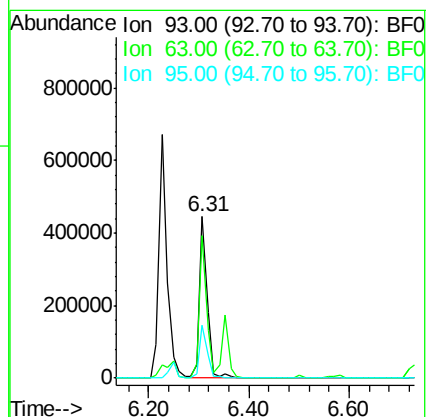
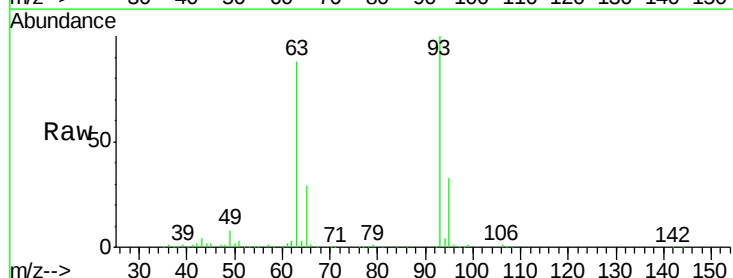
Tgt Ion: 93 Resp: 487274

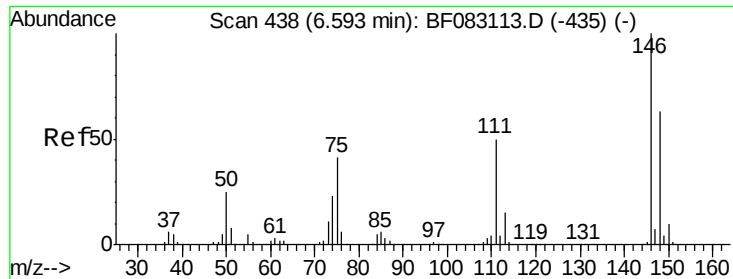
Ion Ratio Lower Upper

93 100

63 88.0 59.8 99.8

95 32.7 13.0 53.0





#12

1,3-Dichlorobenzene

Concen: 12.20 ng

RT: 6.58 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampled :

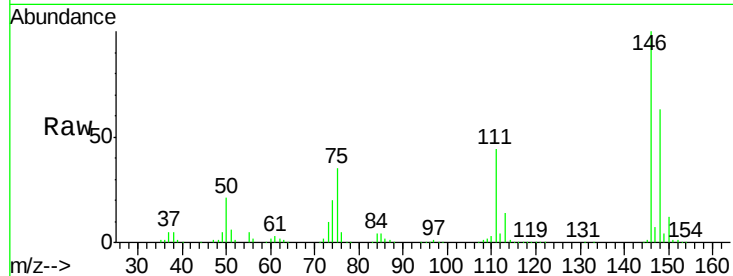
Tot Ion:146 Resp: 537997

Ion Ratio Lower Upper

146 100

148 63.0 50.2 75.2

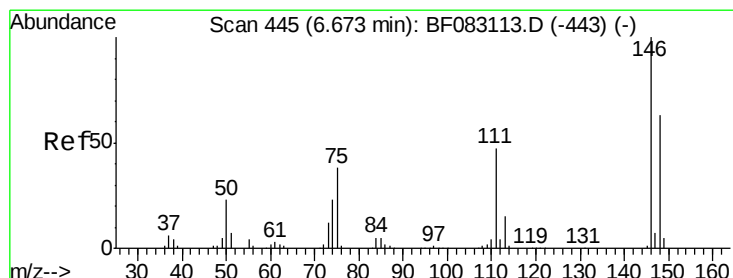
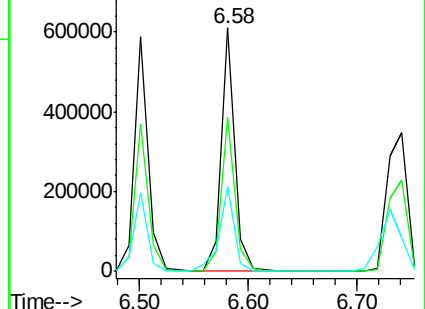
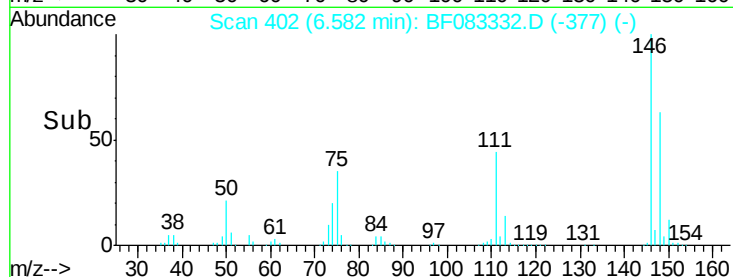
75 34.7 32.7 49.1



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0



#13

1,4-Dichlorobenzene

Concen: 10.21 ng

RT: 6.74 min Scan# 416

Delta R.T. 0.07 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

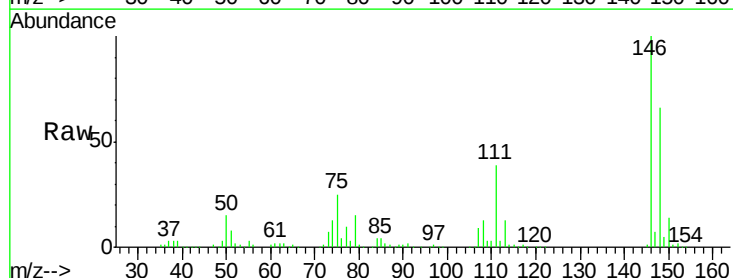
Tgt Ion:146 Resp: 455212

Ion Ratio Lower Upper

146 100

148 65.6 50.2 75.2

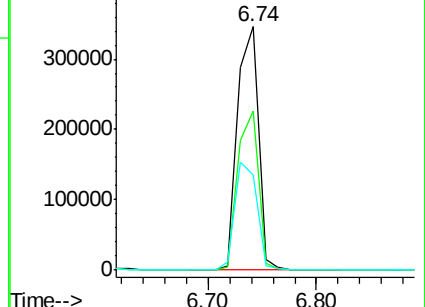
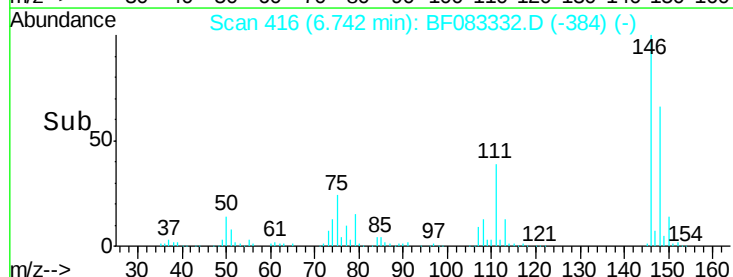
111 39.3 37.5 56.3

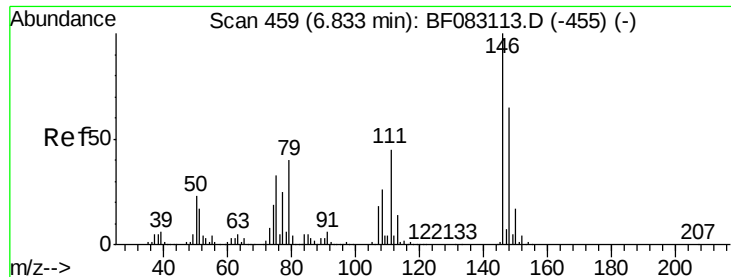


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 11.23 ng

RT: 6.74 min Scan# 416

Delta R.T. -0.09 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampled :

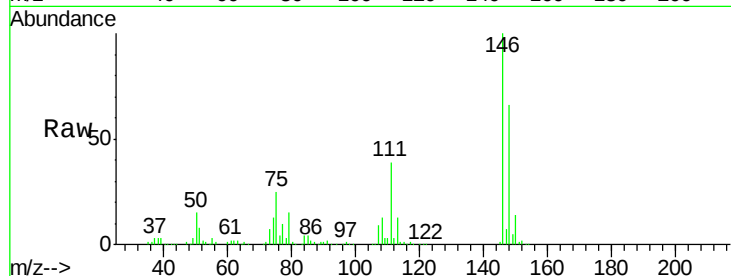
Tot Ion:146 Resp: 455212

Ion Ratio Lower Upper

146 100

148 65.6 51.8 77.6

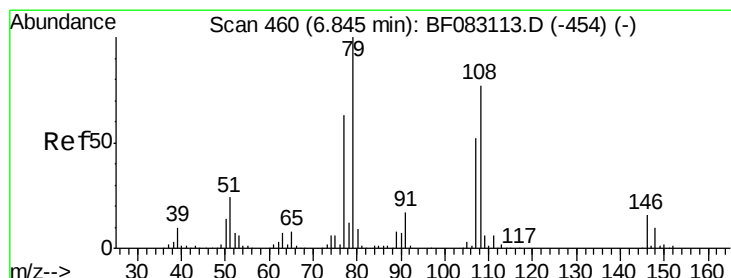
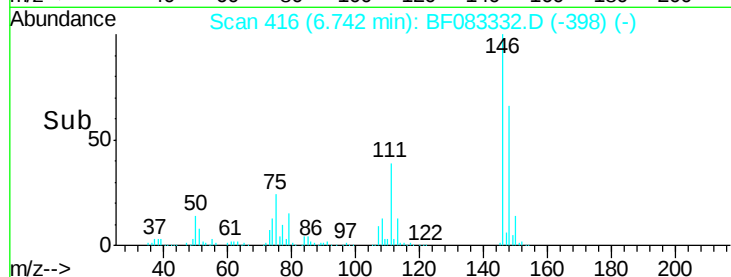
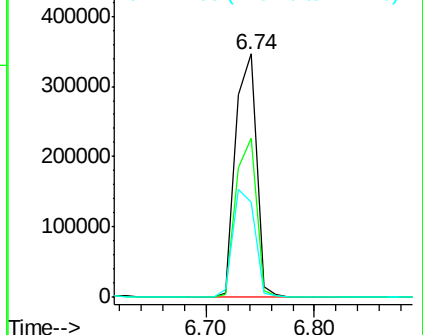
111 39.3 36.2 54.4



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



#15

Benzyl Alcohol

Concen: 11.71 ng

RT: 6.73 min Scan# 415

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

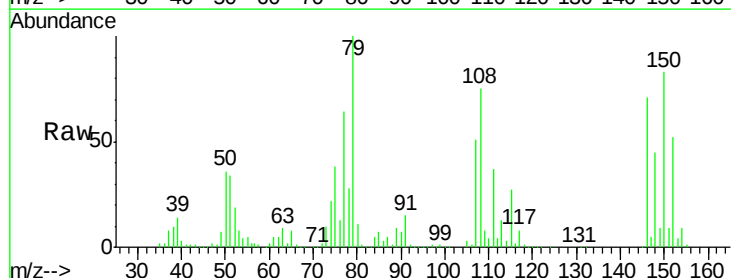
Tgt Ion: 79 Resp: 452416

Ion Ratio Lower Upper

79 100

108 75.1 61.4 92.2

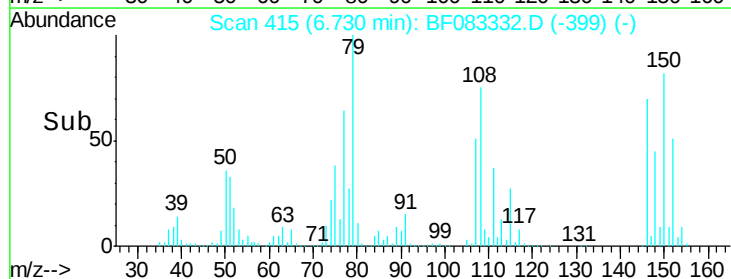
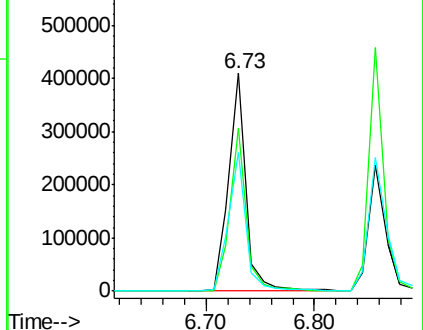
77 63.8 50.5 75.7

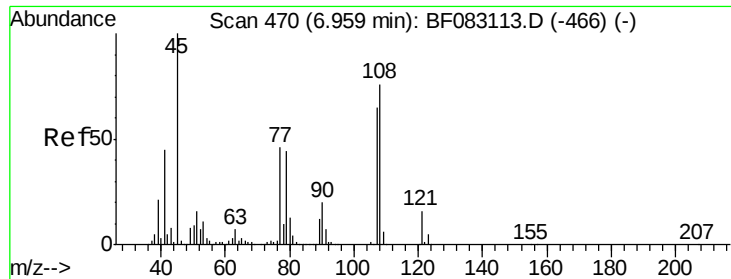


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

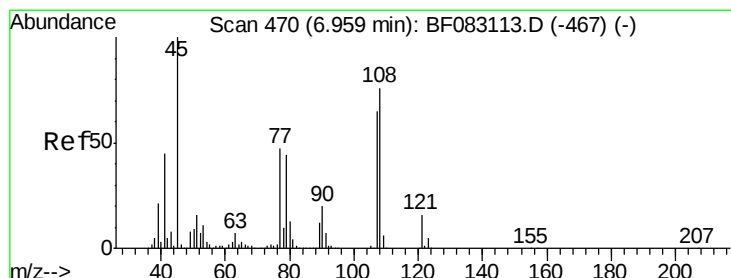
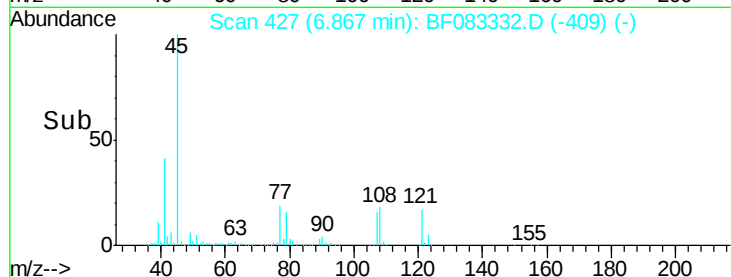
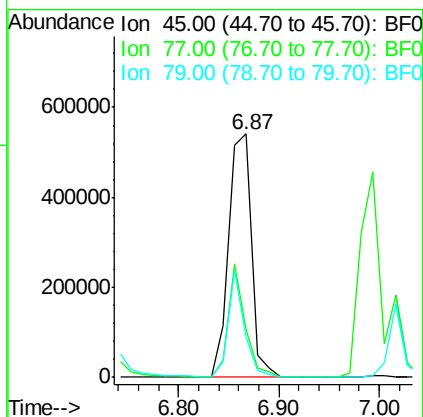
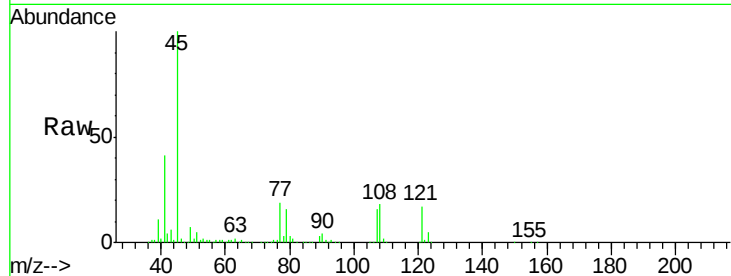




#16  
2,2'-oxvbis(1-Chloropropane)  
Concen: 13.70 ng  
RT: 6.87 min Scan# 427  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

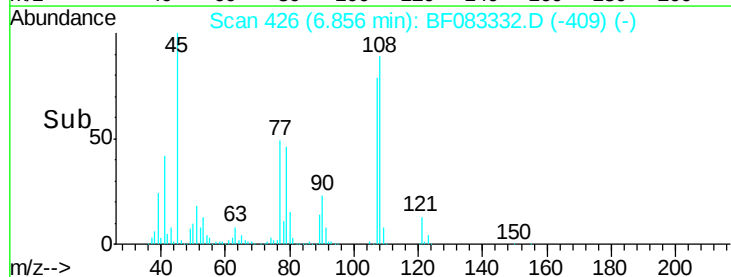
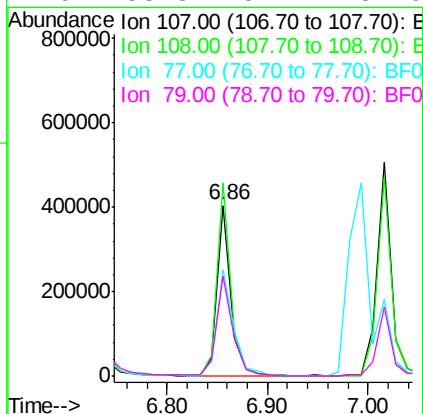
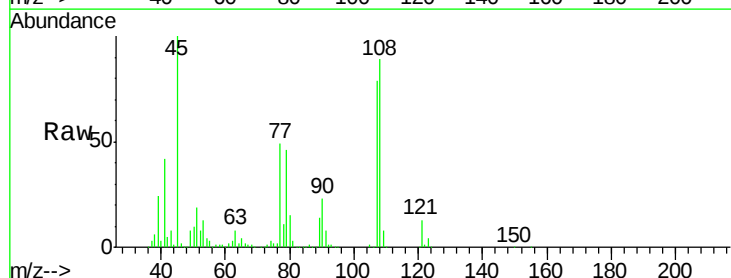
Instrument :  
BNA\_F  
ClientSampleId :

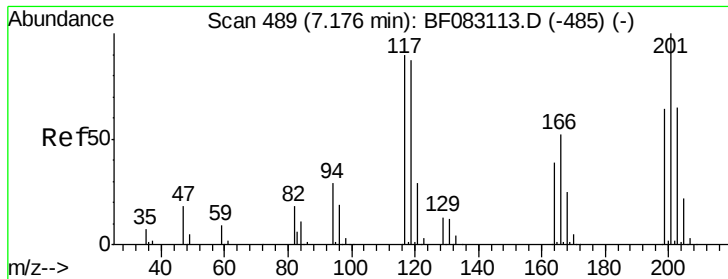
Tot Ion: 45 Resp: 853220  
Ion Ratio Lower Upper  
45 100  
77 19.5 26.7 66.7#  
79 16.3 24.3 64.3#



#17  
2-Methylphenol  
Concen: 12.12 ng  
RT: 6.86 min Scan# 426  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion: 107 Resp: 387399  
Ion Ratio Lower Upper  
107 100  
108 113.2 93.8 140.6  
77 62.4 57.4 86.0  
79 58.3 54.4 81.6

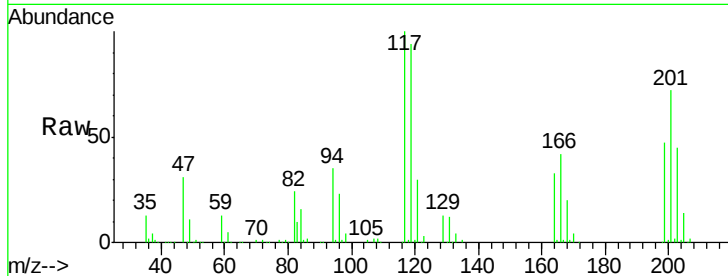




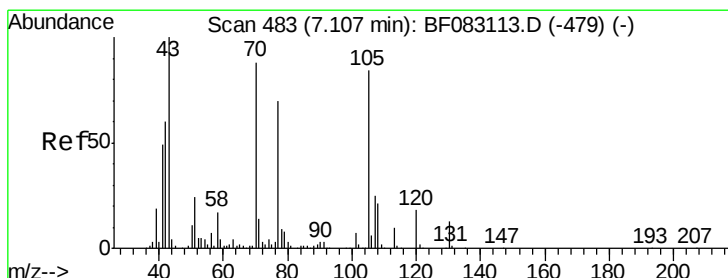
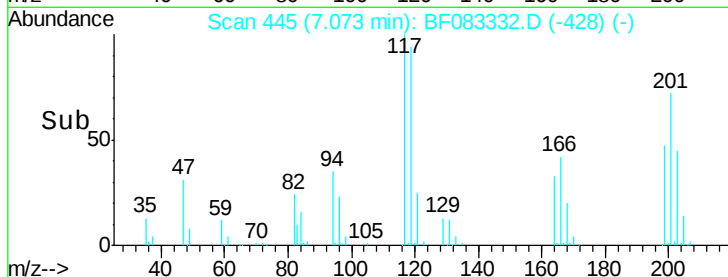
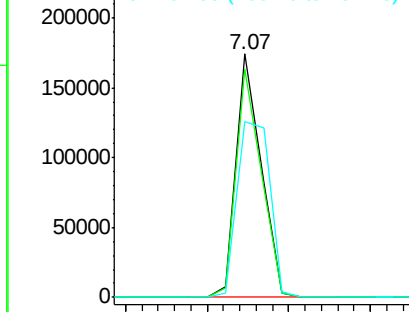
#18  
Hexachloroethane  
Concen: 11.66 ng  
RT: 7.07 min Scan# 445  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:117 Resp: 183230  
Ion Ratio Lower Upper  
117 100  
119 93.6 76.8 115.2  
201 72.4 88.6 133.0#

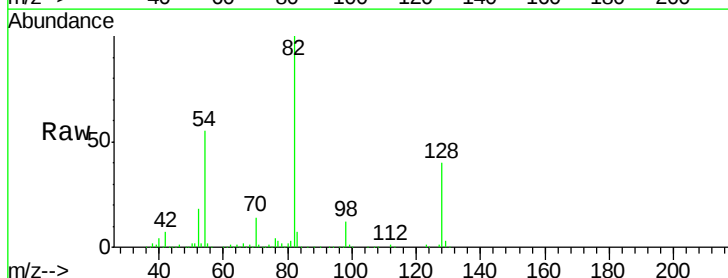


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

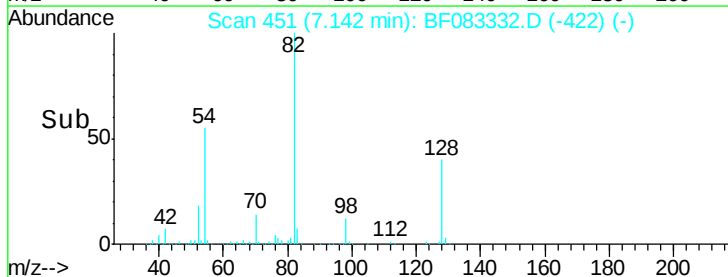
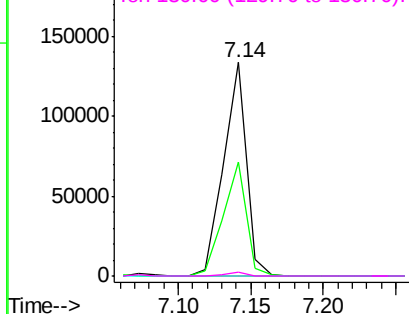


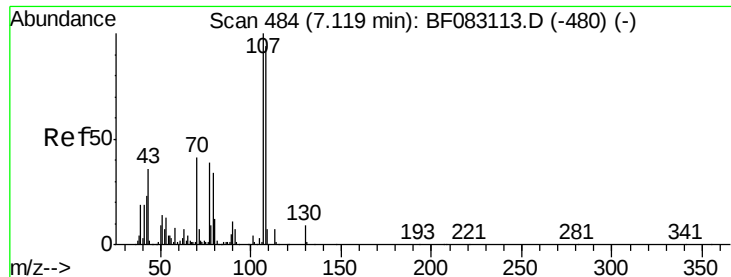
#19  
n-Nitroso-di-n-propylamine  
Concen: 4.53 ng  
RT: 7.14 min Scan# 451  
Delta R.T. 0.03 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion: 70 Resp: 145958  
Ion Ratio Lower Upper  
70 100  
42 53.6 54.5 81.7#  
101 0.0 6.6 9.8#  
130 1.8 11.5 17.3#



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

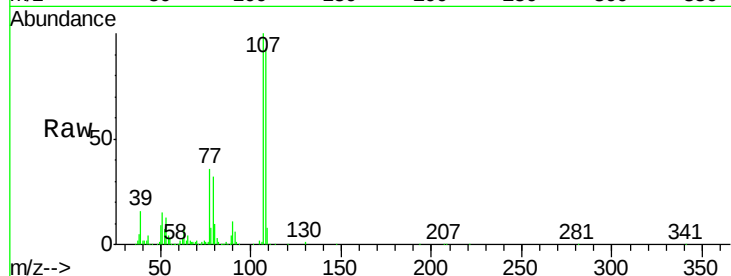




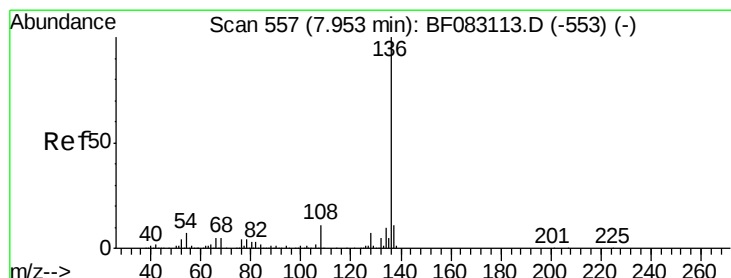
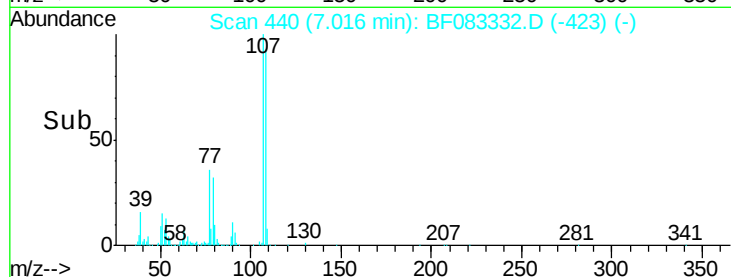
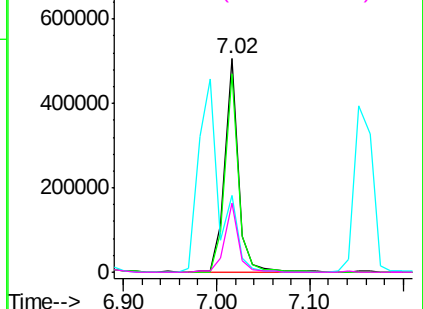
#20  
3+4-Methylphenols  
Concen: 12.60 ng  
RT: 7.02 min Scan# 440  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 107   | Resp: | 509056 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 93.0  | 73.8  | 113.8  |
| 77       | 36.2  | 19.1  | 59.1   |
| 79       | 32.2  | 13.7  | 53.7   |

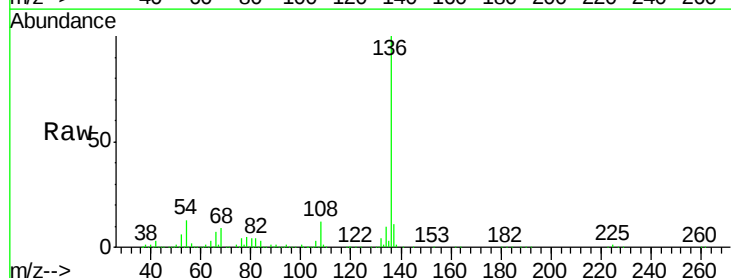


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0  
Ion 79.00 (78.70 to 79.70): BF0

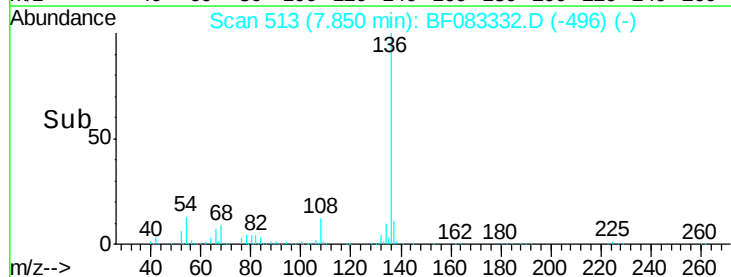
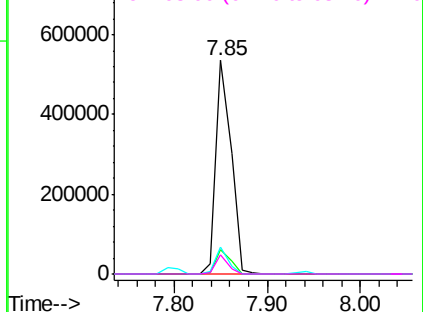


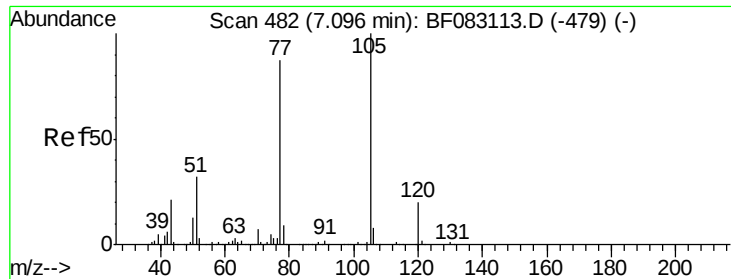
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.85 min Scan# 513  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 603338 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.7   | 13.1   |
| 54       | 12.6  | 5.8   | 8.6#   |
| 68       | 8.9   | 3.8   | 5.8#   |



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

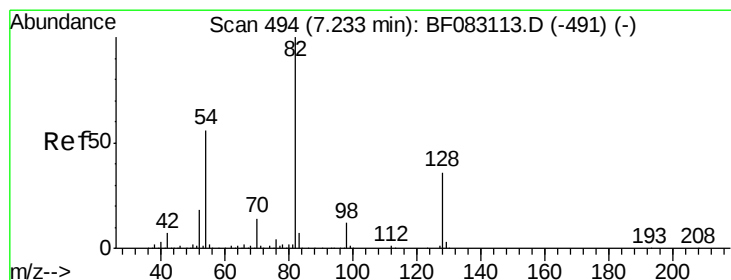
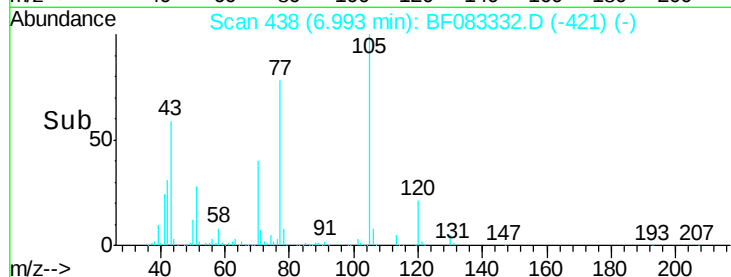
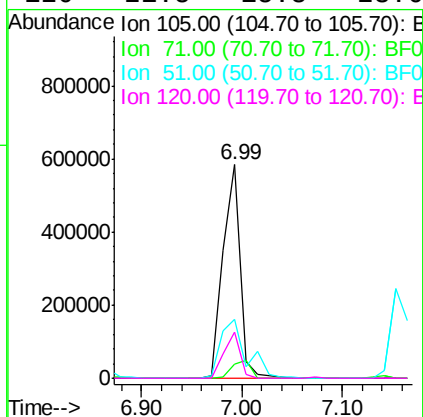
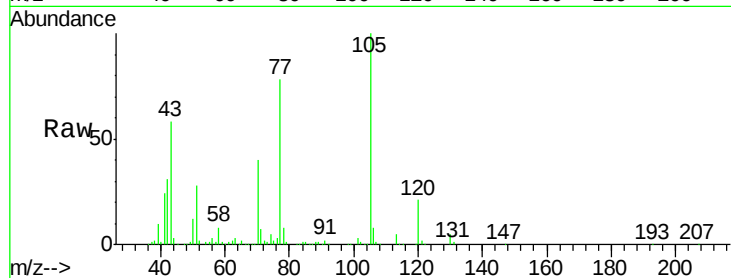




#22  
Acetophenone  
Concen: 40.08 ng  
RT: 6.99 min Scan# 438  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

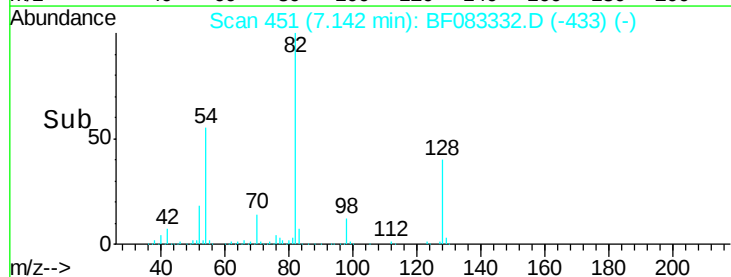
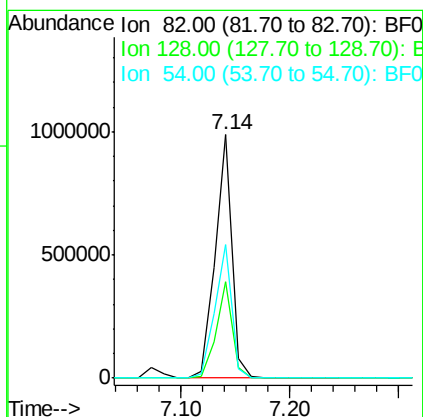
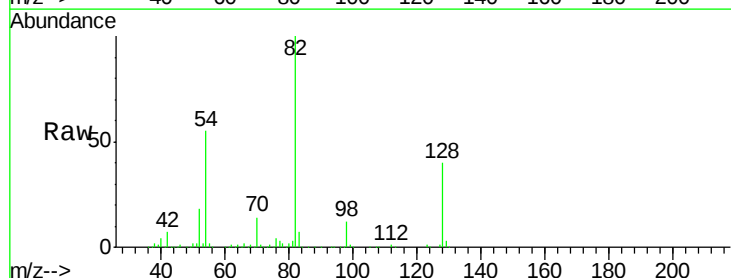
Instrument :  
BNA\_F  
ClientSampleId :

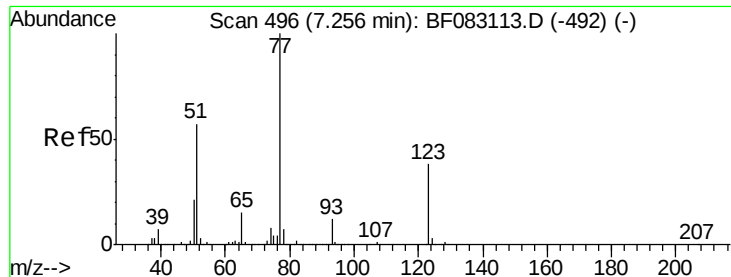
Tot Ion:105 Resp: 694183  
Ion Ratio Lower Upper  
105 100  
71 6.9 1.0 1.4#  
51 27.8 25.6 38.4  
120 21.5 15.8 23.6



#23  
Nitrobenzene-d5  
Concen: 80.76 ng  
RT: 7.14 min Scan# 451  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion: 82 Resp: 1066346  
Ion Ratio Lower Upper  
82 100  
128 39.7 28.5 42.7  
54 54.8 44.6 67.0

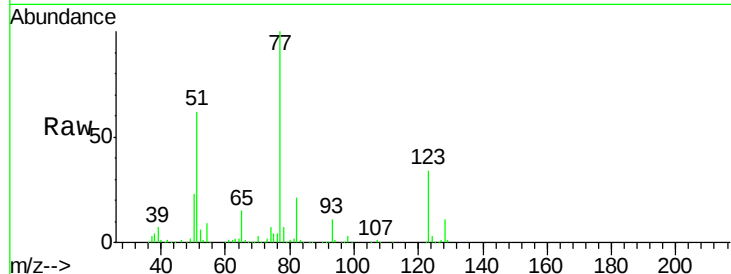




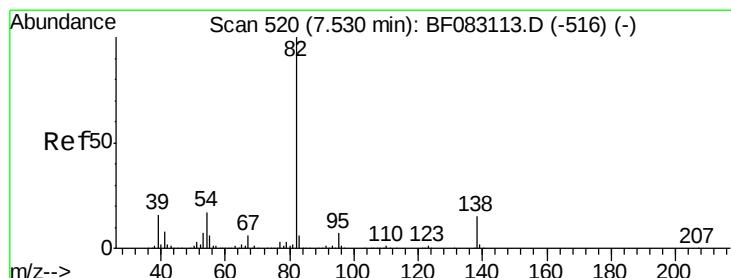
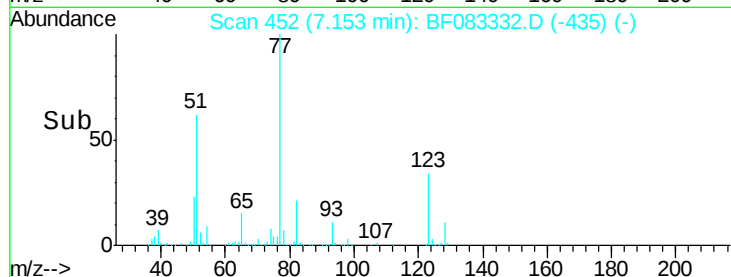
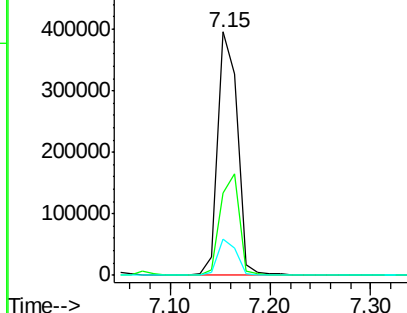
#24  
 Nitrobenzene  
 Concen: 37.69 ng  
 RT: 7.15 min Scan# 452  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 77   | Resp  | 531708 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 123       | 33.8 | 30.1  | 45.1   |
| 65        | 14.8 | 11.6  | 17.4   |

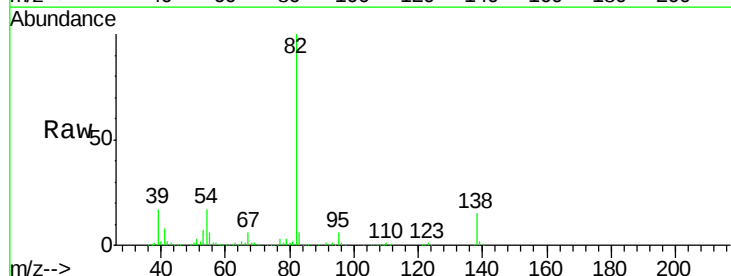


Abundance Ion 77.00 (76.70 to 77.70): BF0  
 Ion 123.00 (122.70 to 123.70): BF0  
 Ion 65.00 (64.70 to 65.70): BF0

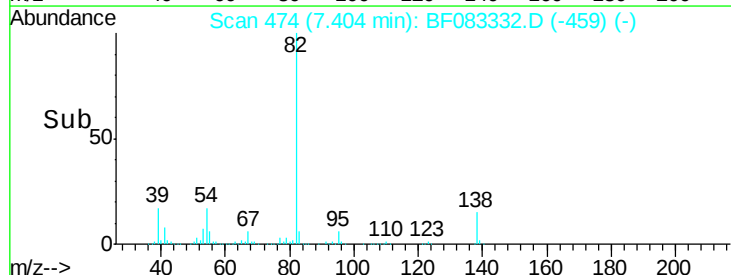
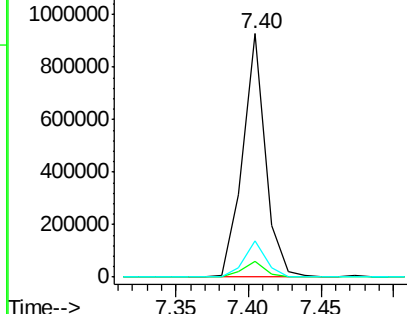


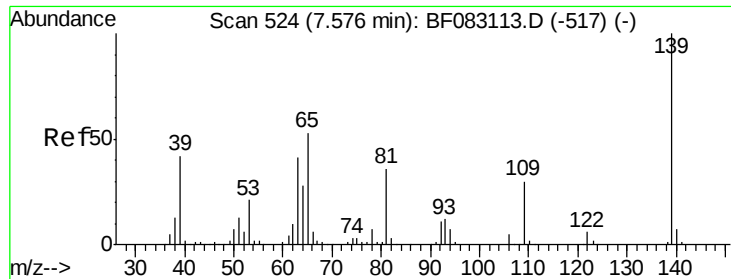
#25  
 Isophorone  
 Concen: 40.43 ng  
 RT: 7.40 min Scan# 474  
 Delta R.T. -0.13 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

| Tgt Ion   | 82   | Resp  | 1010753 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 95        | 6.4  | 5.8   | 8.8     |
| 138       | 14.9 | 11.6  | 17.4    |



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

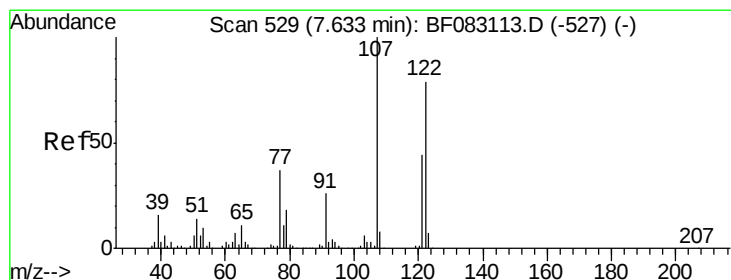
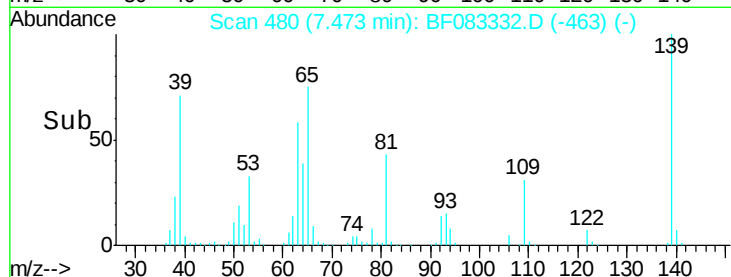
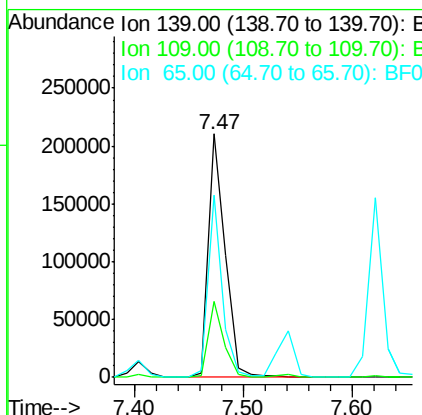
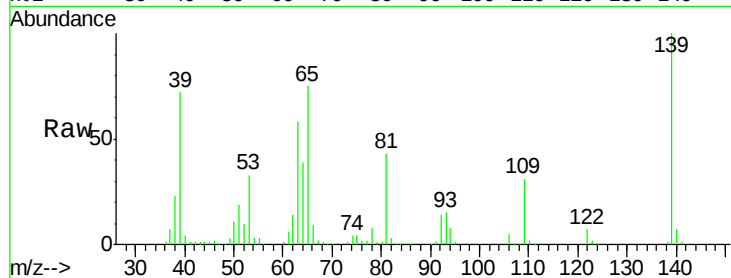




#26  
2-Nitrophenol  
Concen: 36.91 ng  
RT: 7.47 min Scan# 480  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

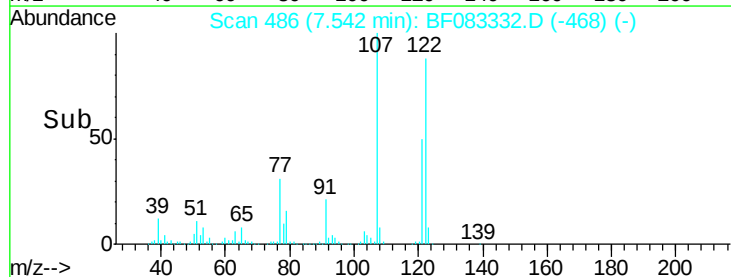
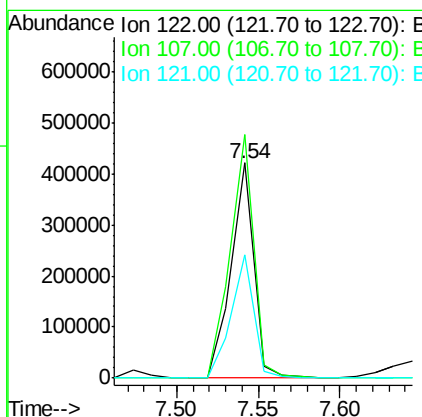
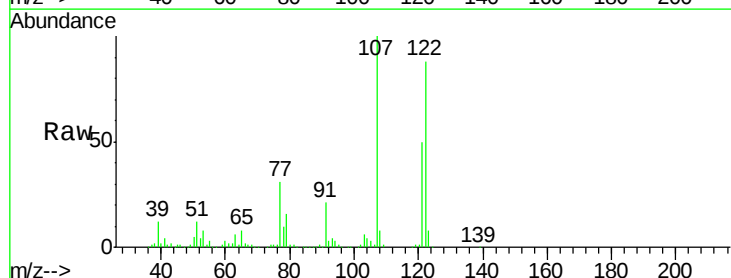
Instrument :  
BNA\_F  
ClientSampled :

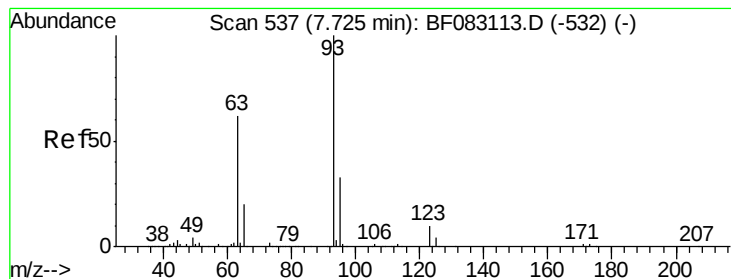
Tot Ion:139 Resp: 229915  
Ion Ratio Lower Upper  
139 100  
109 31.3 23.9 35.9  
65 75.0 42.7 64.1#



#27  
2,4-Dimethylphenol  
Concen: 40.77 ng  
RT: 7.54 min Scan# 486  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:122 Resp: 405220  
Ion Ratio Lower Upper  
122 100  
107 113.2 101.1 151.7  
121 57.1 44.9 67.3





#28

bis(2-Chloroethoxy)methane

Concen: 39.59 ng

RT: 7.62 min Scan# 493

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

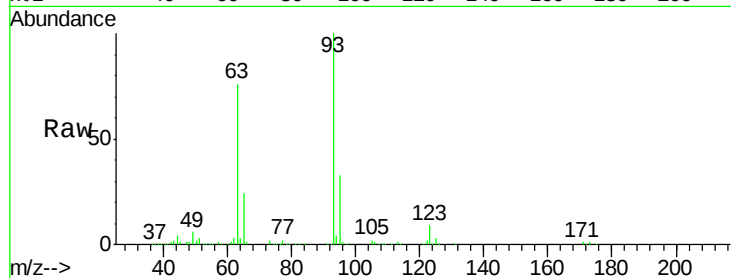
Tot Ion: 93 Resp: 575444

Ion Ratio Lower Upper

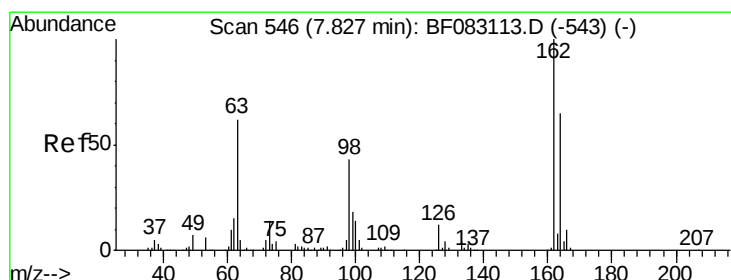
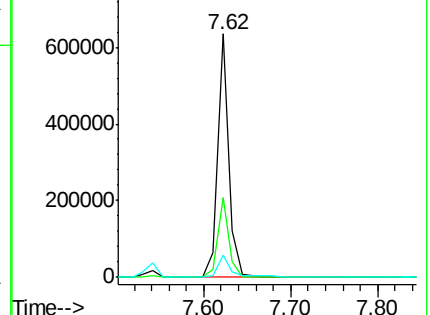
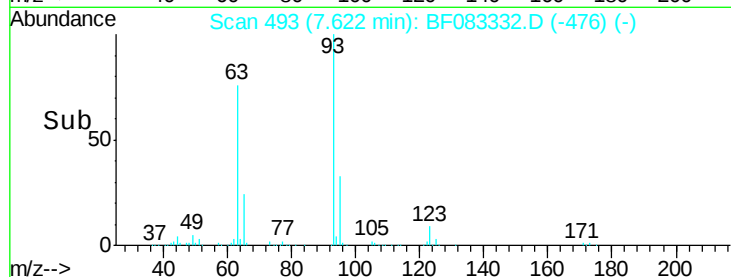
93 100

95 32.9 26.5 39.7

123 9.3 8.1 12.1



Abundance Ion 93.00 (92.70 to 93.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 123.00 (122.70 to 123.70): BF0



#29

2,4-Dichlorophenol

Concen: 38.42 ng

RT: 7.72 min Scan# 502

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

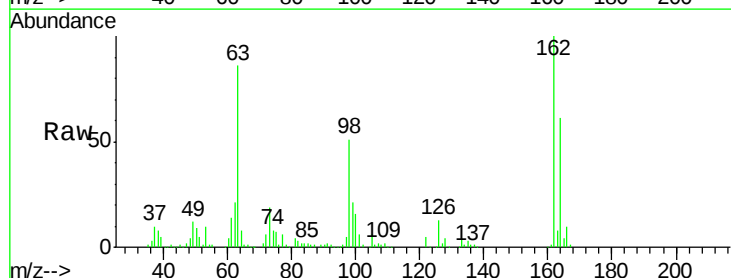
Tgt Ion: 162 Resp: 363189

Ion Ratio Lower Upper

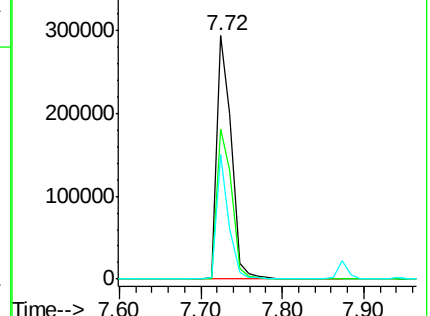
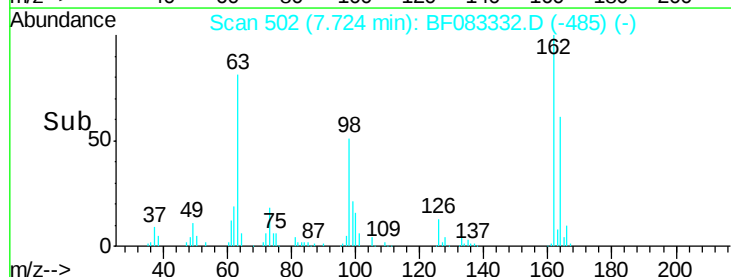
162 100

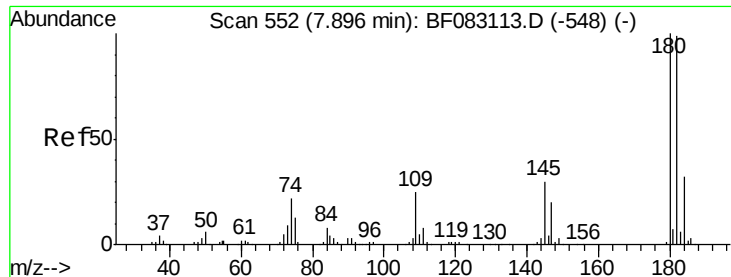
164 61.5 44.8 84.8

98 51.1 23.1 63.1



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

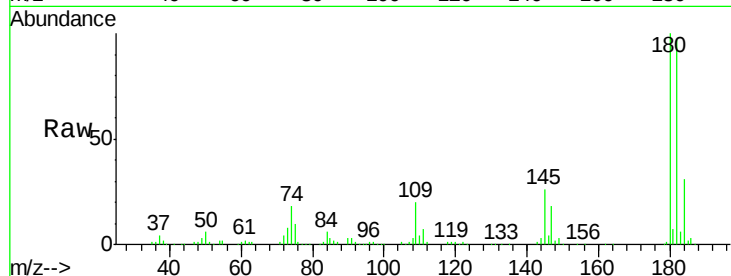




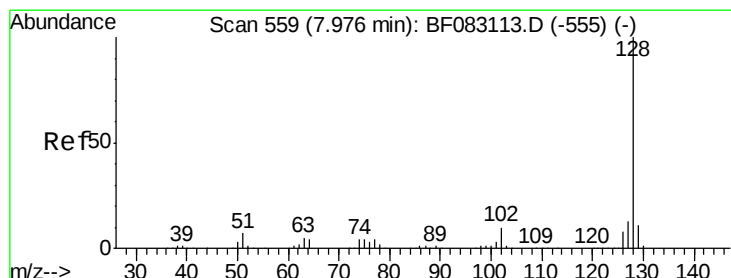
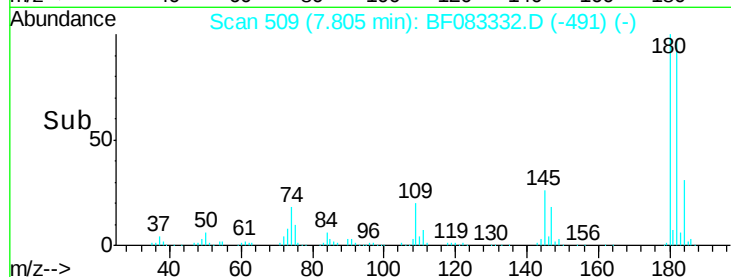
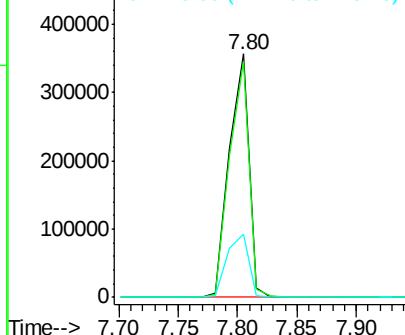
#30  
1,2,4-Trichlorobenzene  
Concen: 39.48 ng  
RT: 7.80 min Scan# 509  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:180 Resp: 409954  
Ion Ratio Lower Upper  
180 100  
182 96.9 79.0 118.6  
145 25.8 24.2 36.2

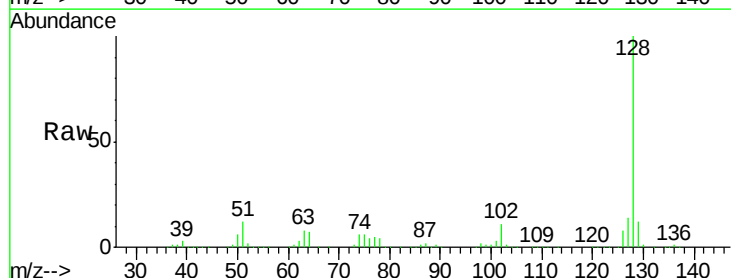


Abundance Ion 180.00 (179.70 to 180.70): E  
Ion 182.00 (181.70 to 182.70): E  
Ion 145.00 (144.70 to 145.70): E

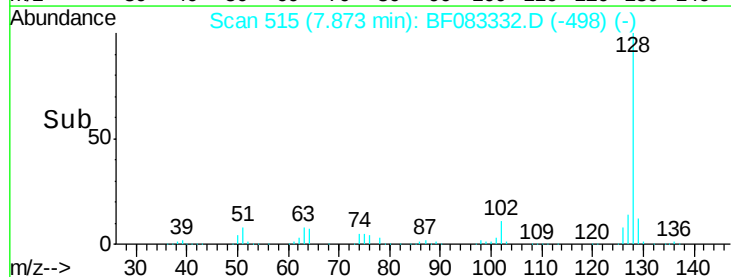
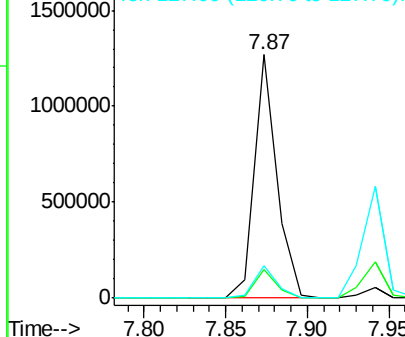


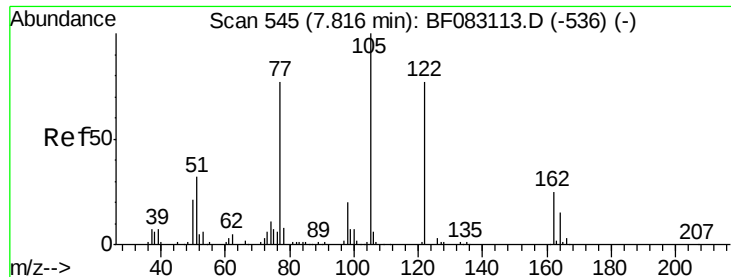
#31  
Naphthalene  
Concen: 37.44 ng  
RT: 7.87 min Scan# 515  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:128 Resp: 1219132  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.0 13.4  
127 13.5 10.6 15.8



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





#32

Benzoic acid

Concen: 24.48 ng

RT: 7.68 min Scan# 498

Delta R.T. -0.14 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

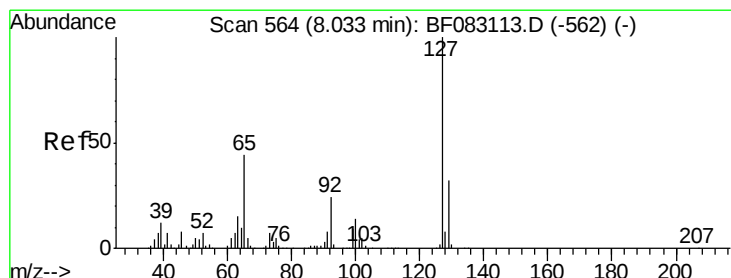
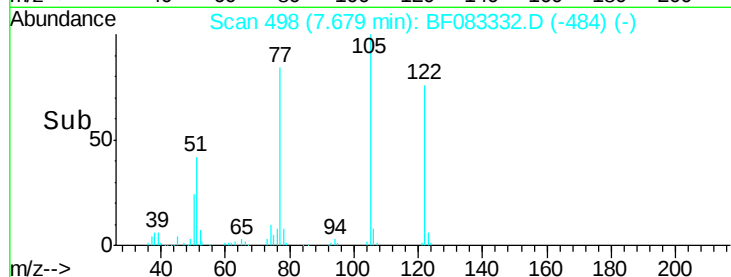
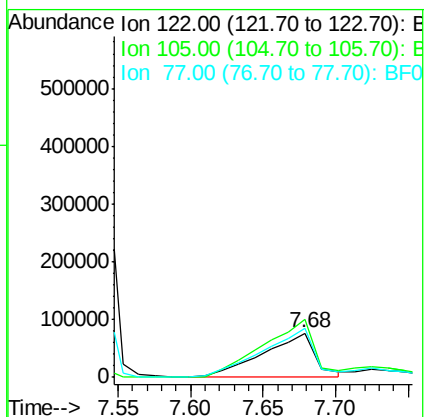
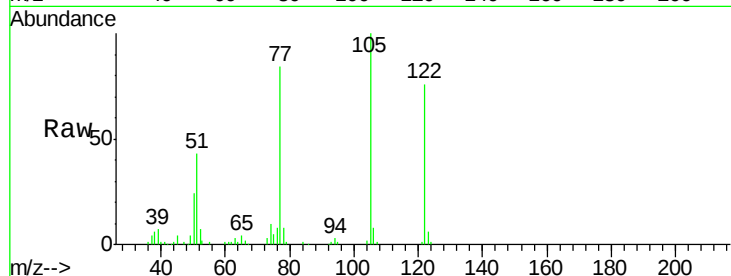
Tot Ion:122 Resp: 189140

Ion Ratio Lower Upper

122 100

105 131.5 109.7 149.7

77 111.0 79.7 119.7



#33

4-Chloroaniline

Concen: 44.37 ng

RT: 7.94 min Scan# 521

Delta R.T. -0.09 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Tgt Ion:127 Resp: 560525

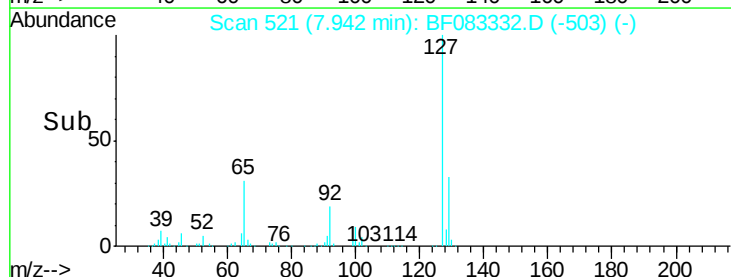
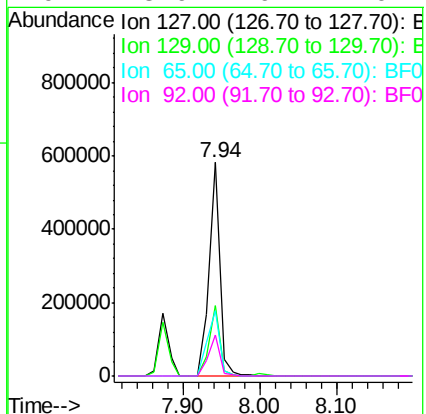
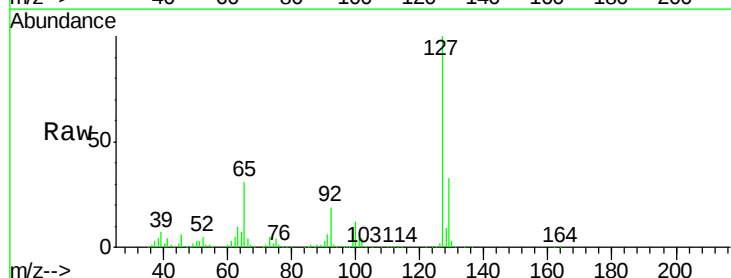
Ion Ratio Lower Upper

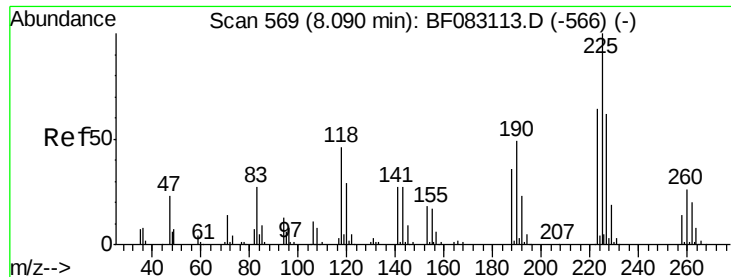
127 100

129 33.0 25.7 38.5

65 30.9 35.5 53.3#

92 18.9 19.4 29.2#

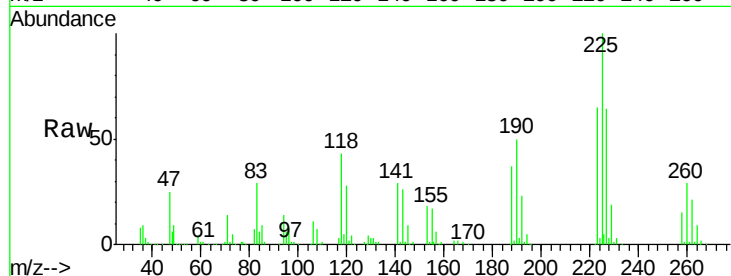




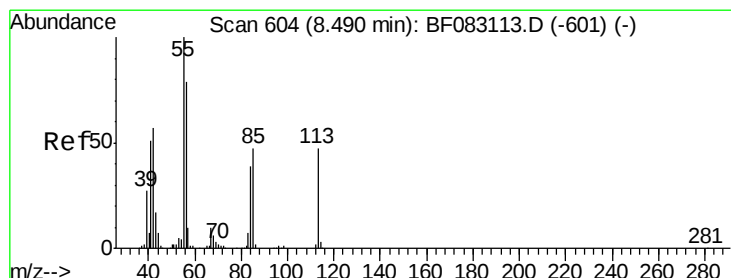
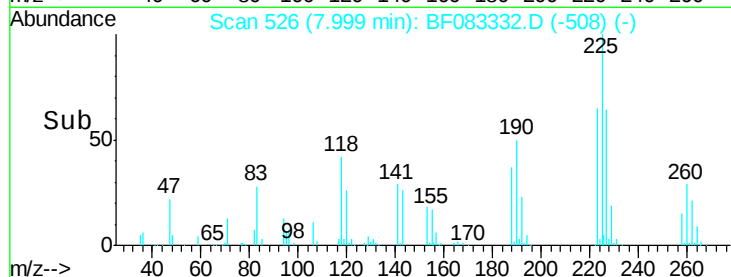
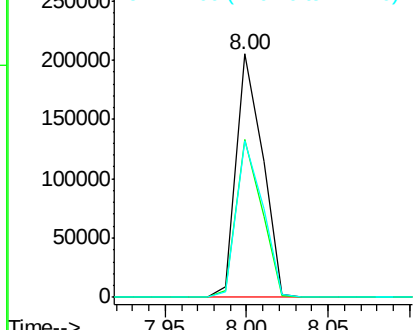
#34  
Hexachlorobutadiene  
Concen: 37.02 ng  
RT: 8.00 min Scan# 526  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:225 Resp: 227190  
Ion Ratio Lower Upper  
225 100  
223 64.6 51.3 76.9  
227 64.2 49.8 74.8

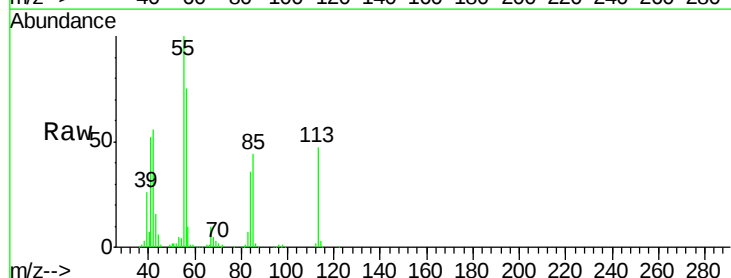


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

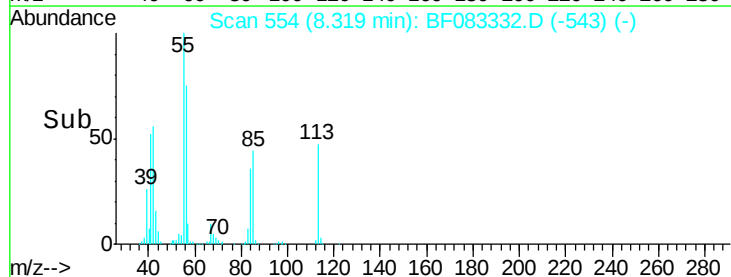
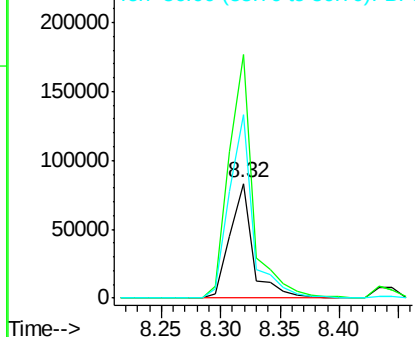


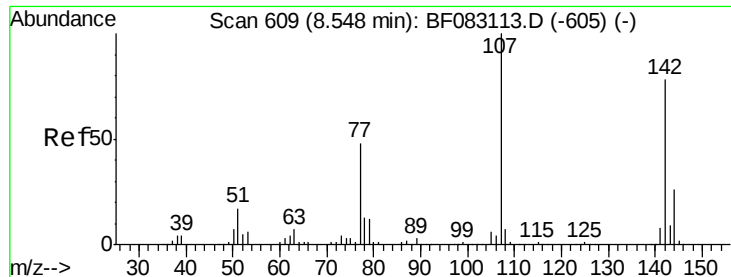
#35  
Caprolactam  
Concen: 36.98 ng  
RT: 8.32 min Scan# 554  
Delta R.T. -0.17 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:113 Resp: 112051  
Ion Ratio Lower Upper  
113 100  
55 212.6 192.6 232.6  
56 160.3 148.6 188.6



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

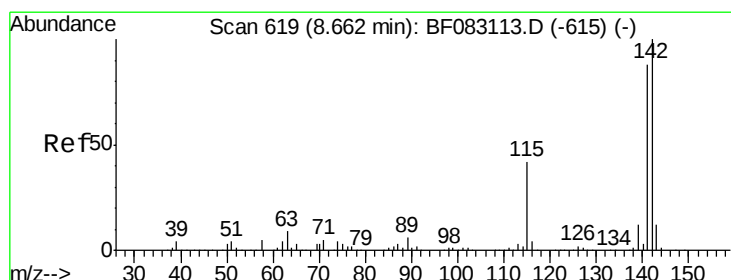
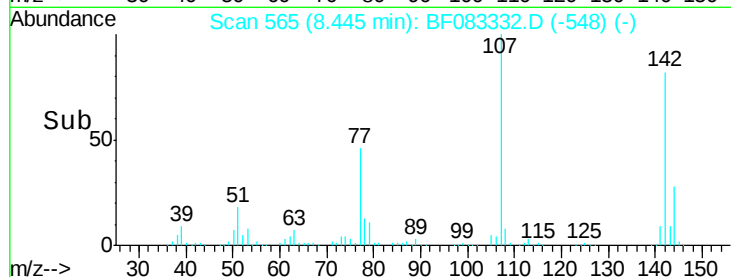
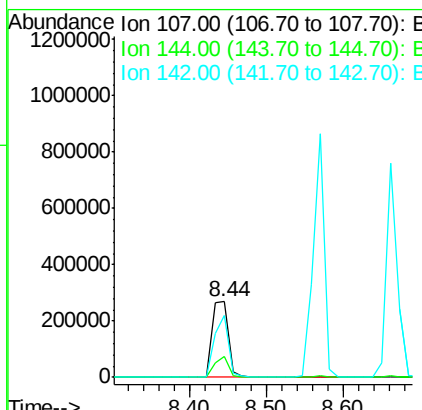
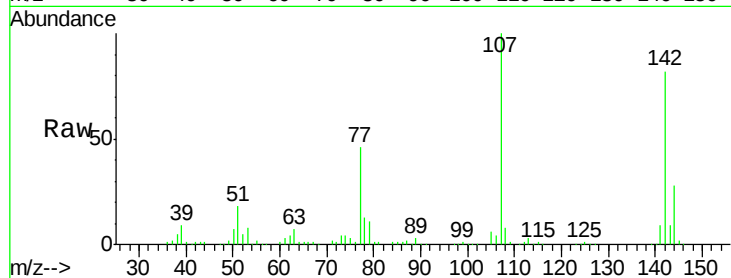




#36  
 4-Chloro-3-methylphenol  
 Concen: 35.51 ng  
 RT: 8.44 min Scan# 565  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

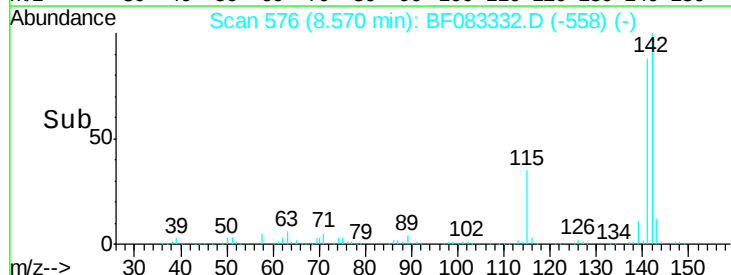
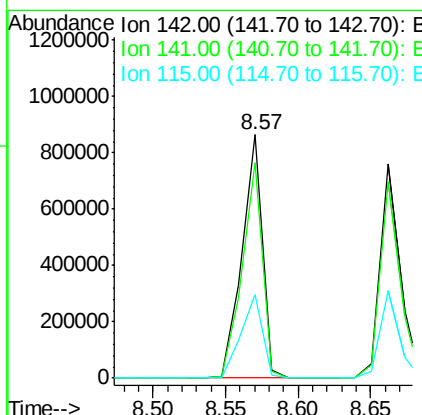
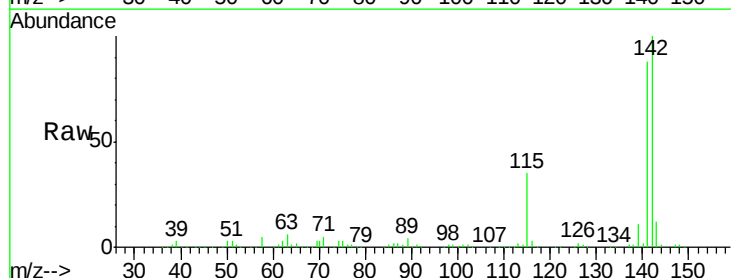
Instrument :  
 BNA\_F  
 ClientSampled :

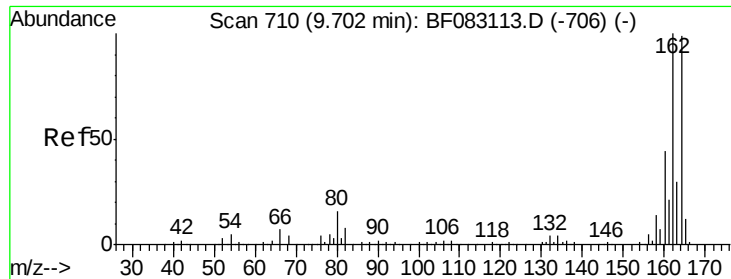
Tot Ion:107 Resp: 388883  
 Ion Ratio Lower Upper  
 107 100  
 144 27.7 20.8 31.2  
 142 82.4 62.1 93.1



#37  
 2-Methylnaphthalene  
 Concen: 39.99 ng  
 RT: 8.57 min Scan# 576  
 Delta R.T. -0.09 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Tgt Ion:142 Resp: 845156  
 Ion Ratio Lower Upper  
 142 100  
 141 88.5 70.3 105.5  
 115 34.5 33.4 50.2

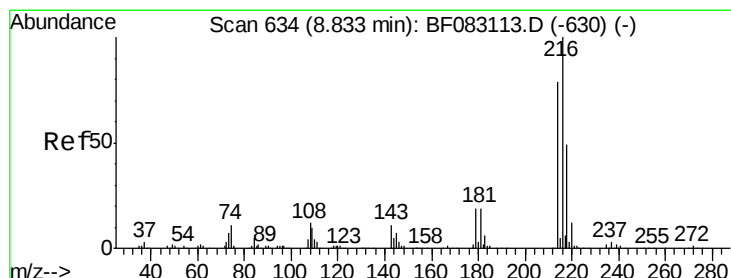
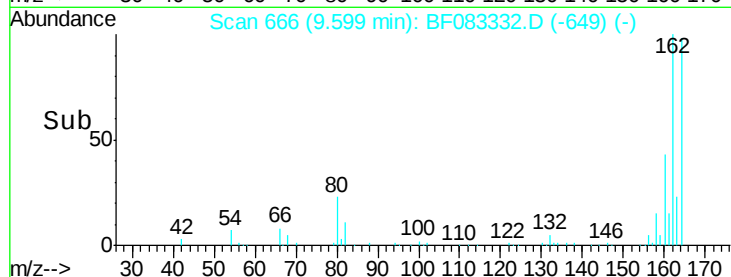
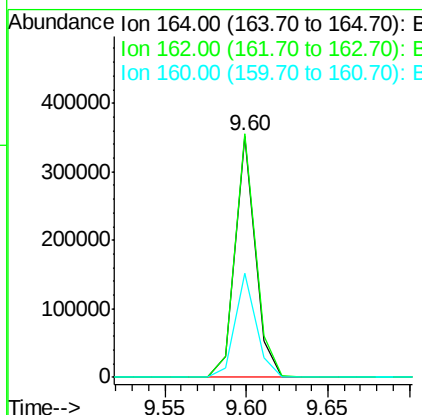
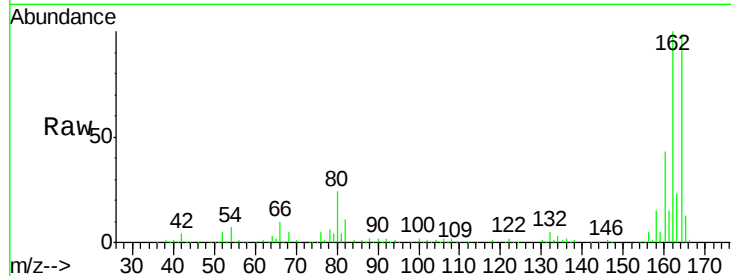




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.60 min Scan# 666  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

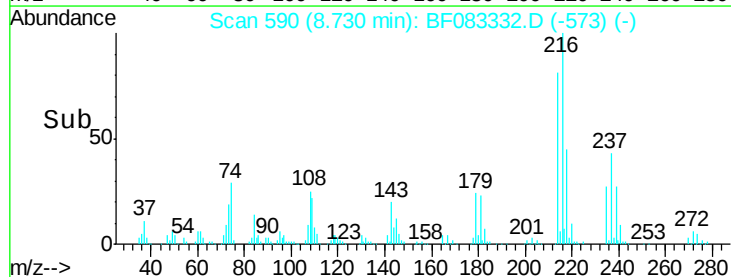
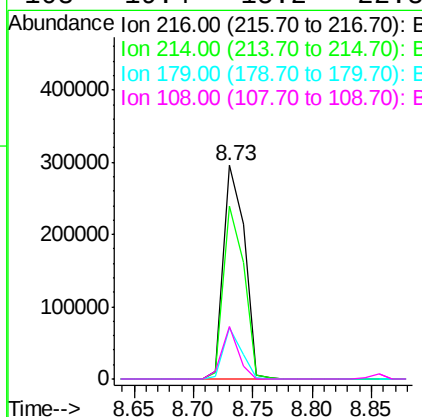
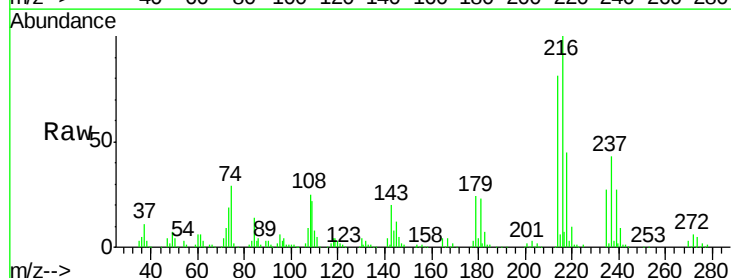
Instrument :  
BNA\_F  
ClientSampleId :

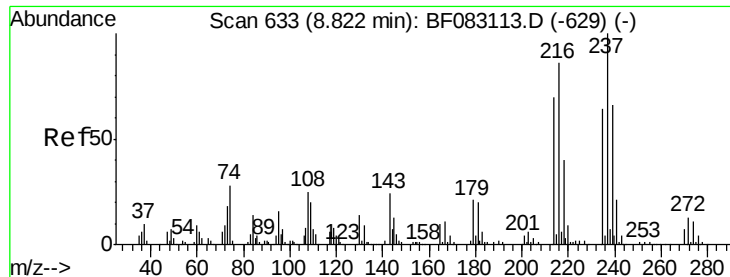
Tot Ion:164 Resp: 300789  
Ion Ratio Lower Upper  
164 100  
162 100.9 81.2 121.8  
160 43.0 35.6 53.4



#39  
1,2,4,5-Tetrachlorobenzene  
Concen: 37.20 ng  
RT: 8.73 min Scan# 590  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:216 Resp: 362631  
Ion Ratio Lower Upper  
216 100  
214 78.7 63.8 95.8  
179 20.8 17.0 25.6  
108 19.4 15.2 22.8

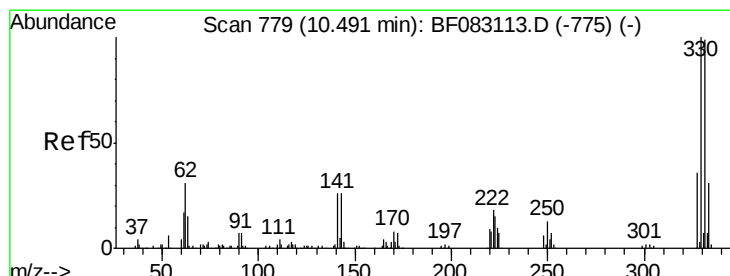
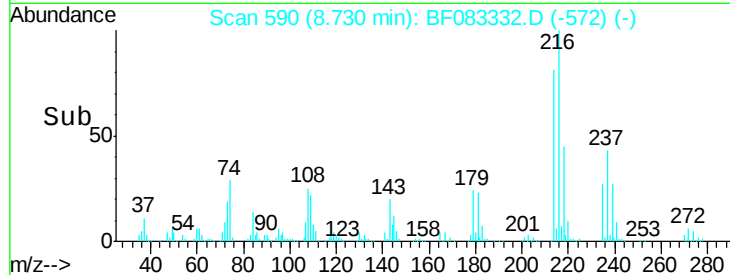
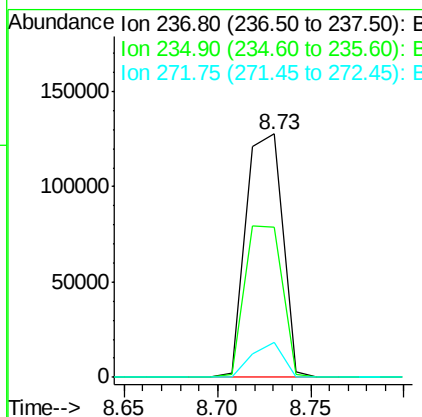
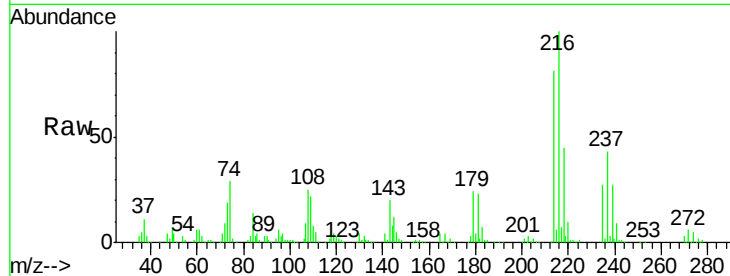




#40  
Hexachlorocyclopentadiene  
Concen: 31.44 ng  
RT: 8.73 min Scan# 590  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

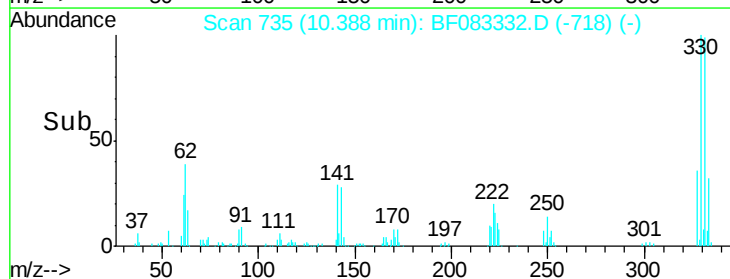
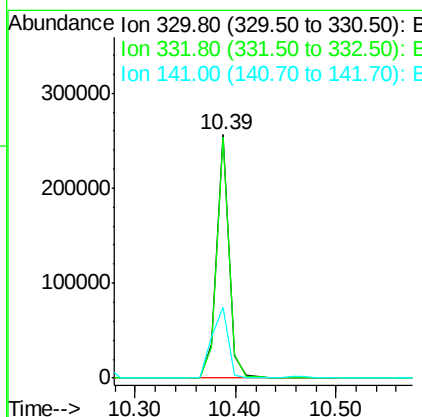
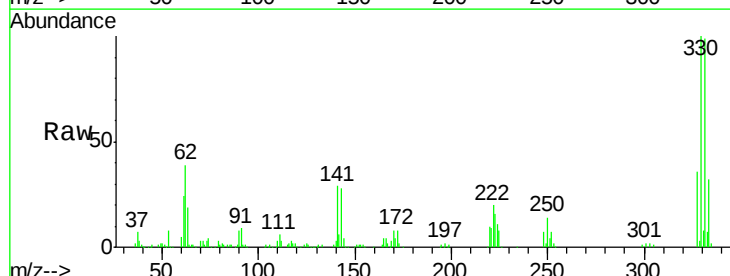
Instrument :  
BNA\_F  
ClientSampleId :

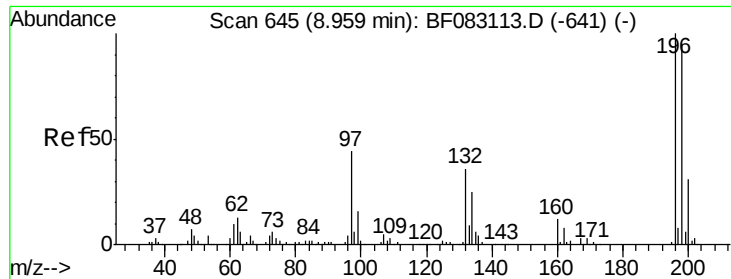
Tot Ion:237 Resp: 174285  
Ion Ratio Lower Upper  
237 100  
235 61.6 43.5 83.5  
272 14.4 0.0 33.1



#41  
2,4,6-Tribromophenol  
Concen: 71.52 ng  
RT: 10.39 min Scan# 735  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:330 Resp: 220089  
Ion Ratio Lower Upper  
330 100  
332 98.7 77.7 116.5  
141 38.1 29.7 44.5

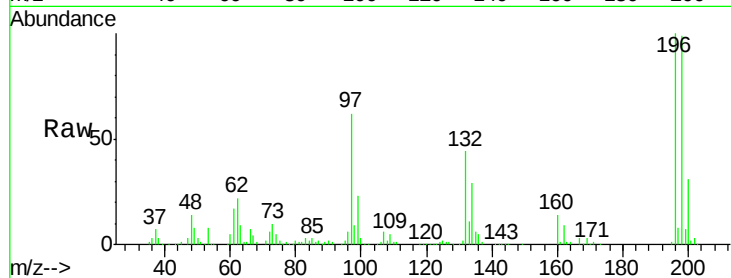




#42  
 2,4,6-Trichlorophenol  
 Concen: 38.27 ng  
 RT: 8.86 min Scan# 601  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion   | 196   | Resp  | 267190 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 98.6  | 75.9  | 113.9  |
| 200       | 31.1  | 24.5  | 36.7   |

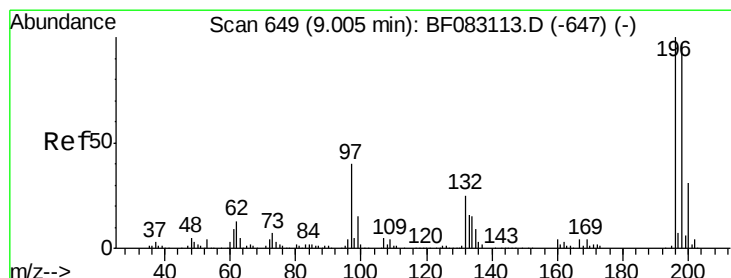
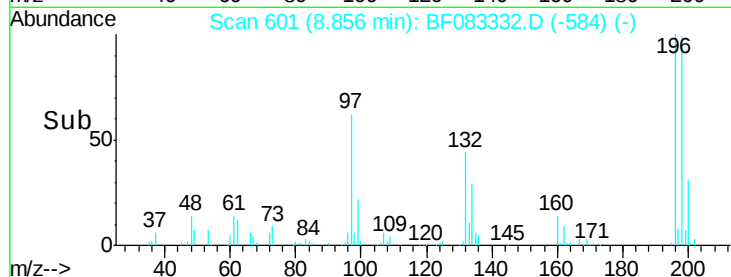
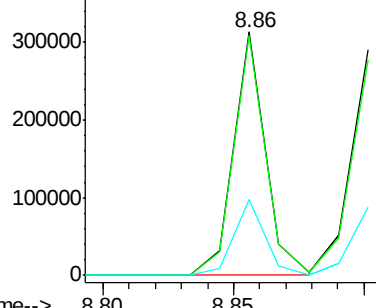


Abundance

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: 38.29 ng  
 RT: 8.90 min Scan# 605  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

| Tgt Ion   | 196   | Resp  | 273345 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 95.6  | 77.6  | 116.4  |
| 97        | 47.1  | 32.6  | 48.8   |
| 132       | 26.3  | 19.8  | 29.8   |

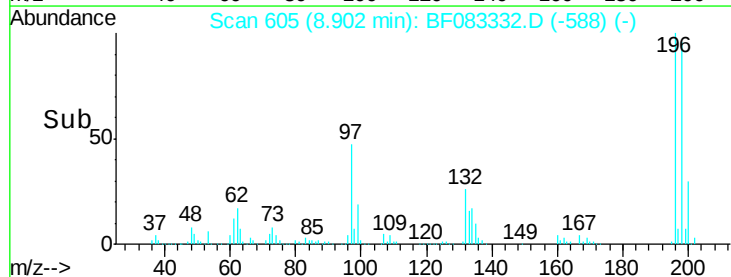
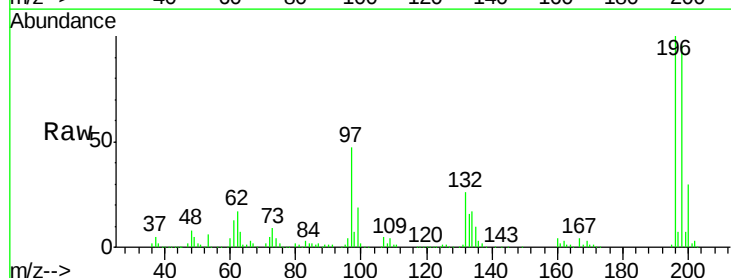
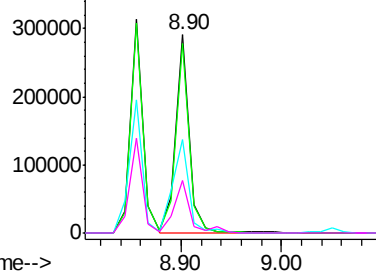
Abundance

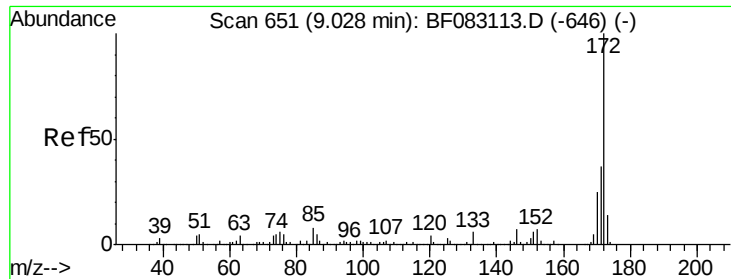
Ion 196.00 (195.70 to 196.70): E

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

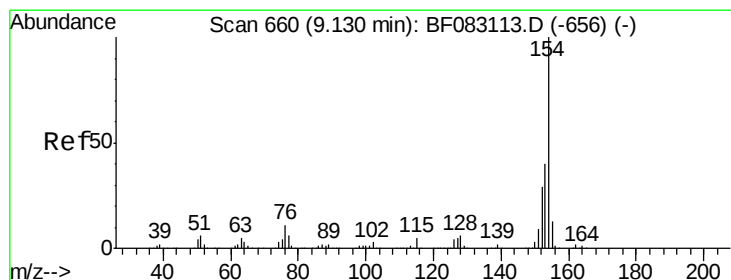
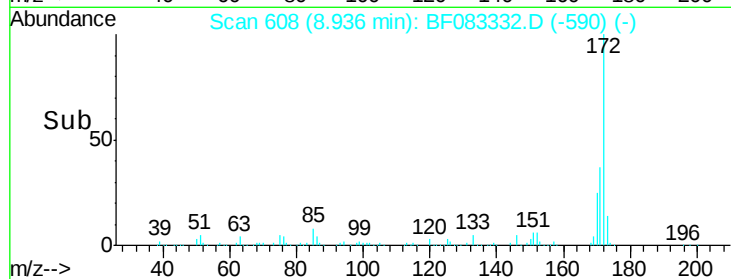
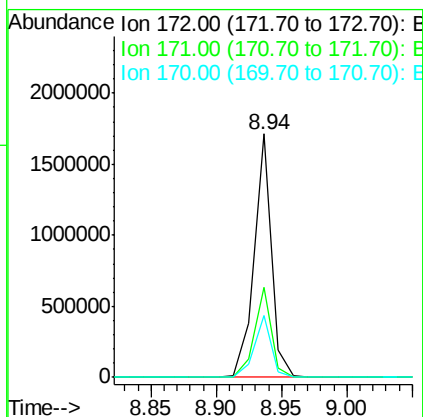
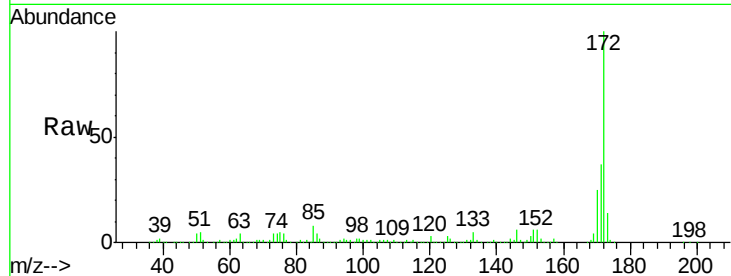




#44  
2-Fluorobiphenyl  
Concen: 73.39 ng  
RT: 8.94 min Scan# 608  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

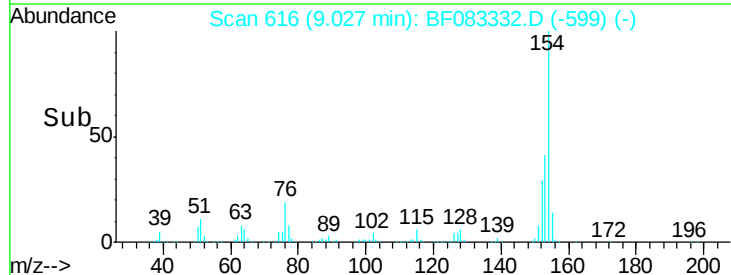
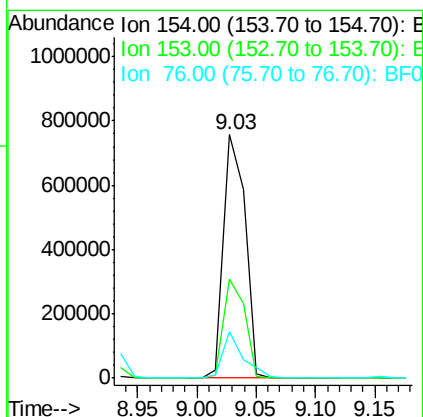
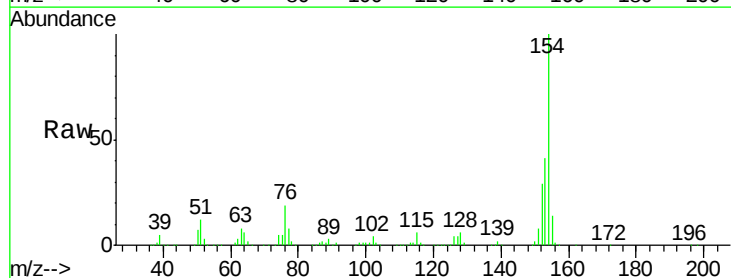
Instrument :  
BNA\_F  
ClientSampleId :

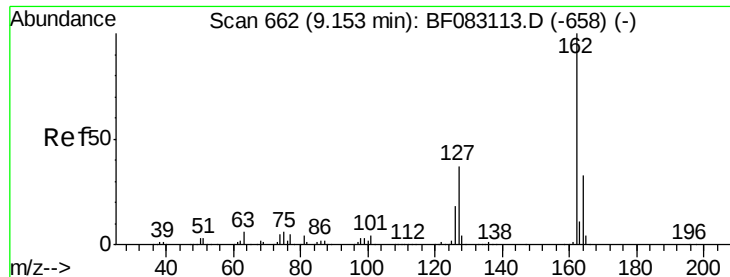
Tot Ion:172 Resp: 1583094  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.5 44.3  
170 25.2 19.9 29.9



#45  
1,1'-Biphenyl  
Concen: 37.18 ng  
RT: 9.03 min Scan# 616  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:154 Resp: 951938  
Ion Ratio Lower Upper  
154 100  
153 40.8 20.5 60.5  
76 18.9 0.0 31.2

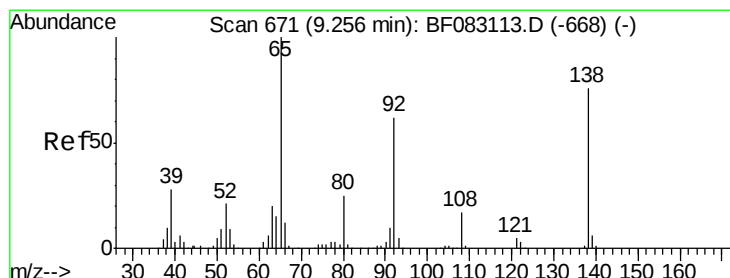
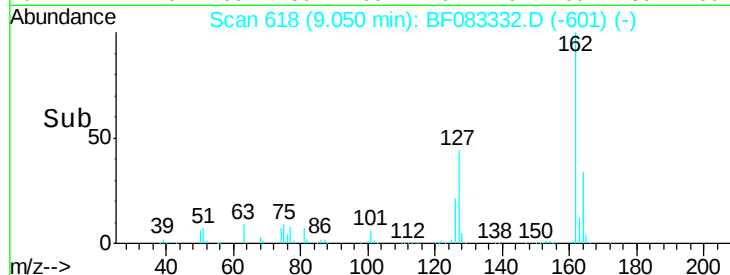
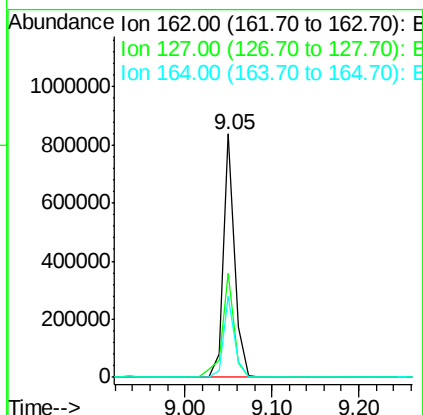
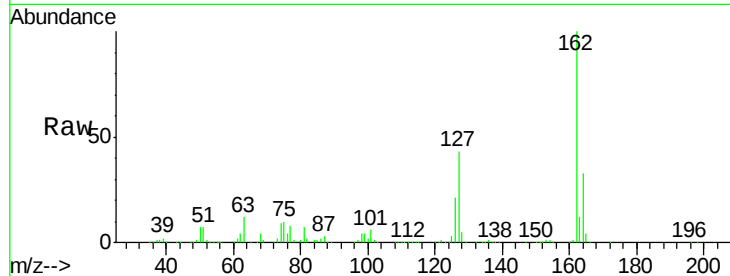




#46  
2-Chloronaphthalene  
Concen: 37.74 ng  
RT: 9.05 min Scan# 618  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

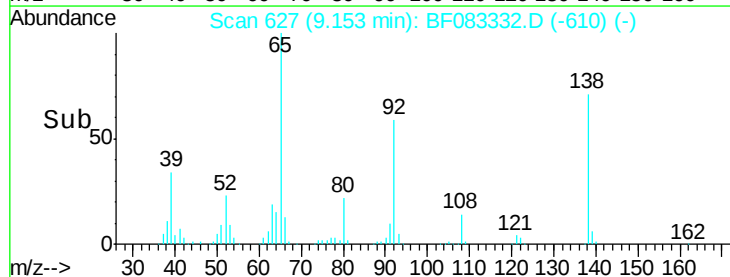
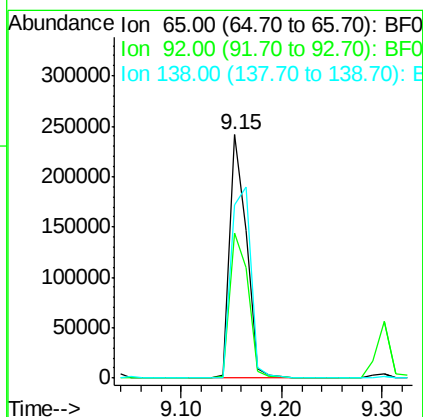
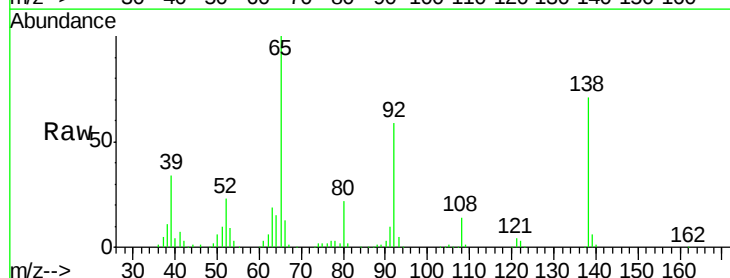
Instrument :  
BNA\_F  
ClientSampleId :

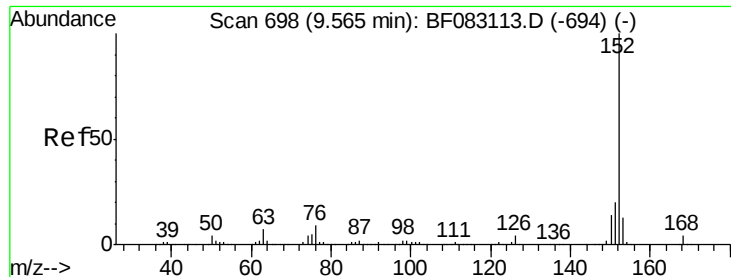
Tot Ion:162 Resp: 758973  
Ion Ratio Lower Upper  
162 100  
127 43.0 29.4 44.2  
164 33.4 26.2 39.4



#47  
2-Nitroaniline  
Concen: 39.48 ng  
RT: 9.15 min Scan# 627  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion: 65 Resp: 280842  
Ion Ratio Lower Upper  
65 100  
92 59.5 49.5 74.3  
138 70.9 60.7 91.1





#48

Acenaphthylene

Concen: 39.70 ng

RT: 9.46 min Scan# 654

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

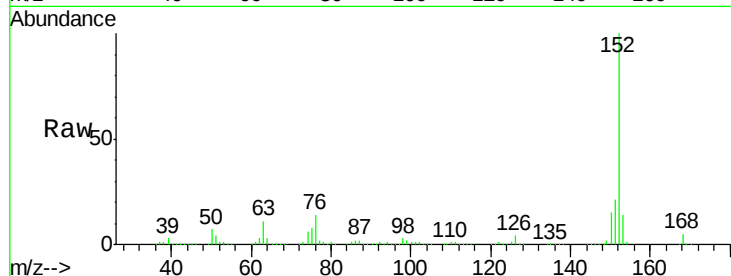
Tot Ion:152 Resp: 1237031

Ion Ratio Lower Upper

152 100

151 21.0 16.3 24.5

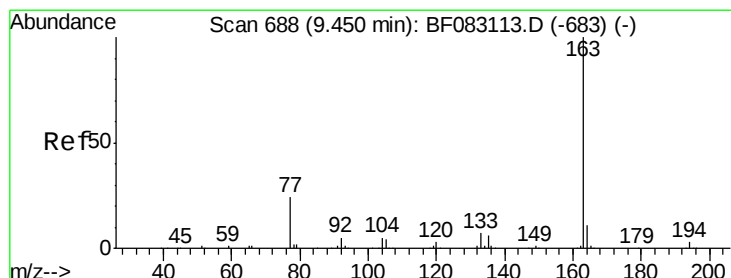
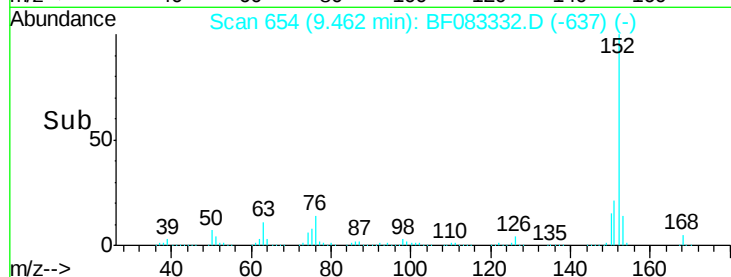
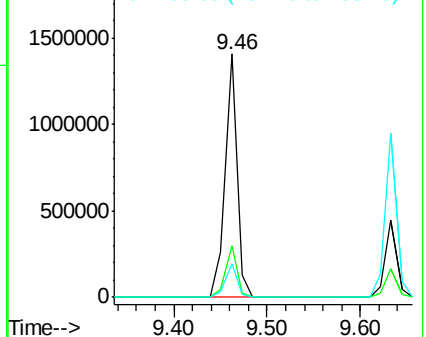
153 13.7 10.8 16.2



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: 39.86 ng

RT: 9.35 min Scan# 644

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

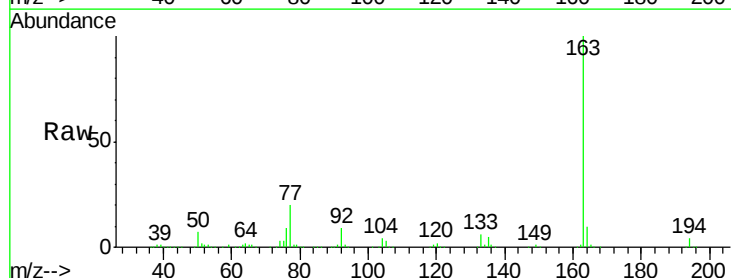
Tgt Ion:163 Resp: 923095

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

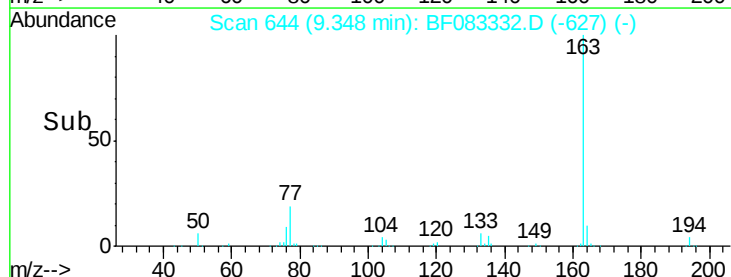
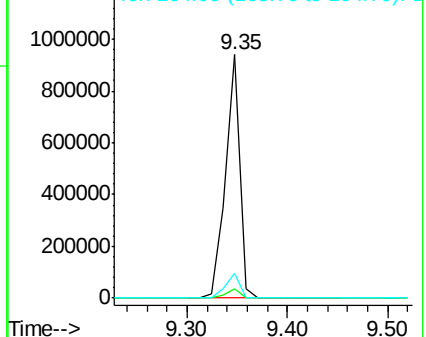
164 10.2 8.6 12.8

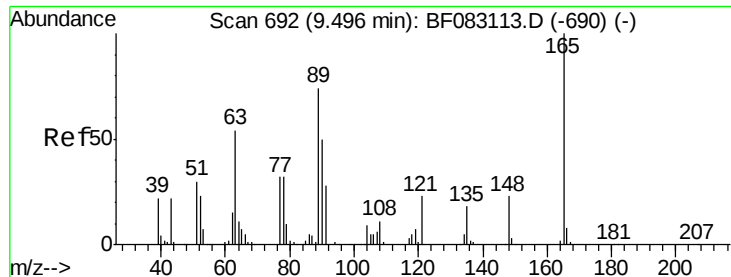


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

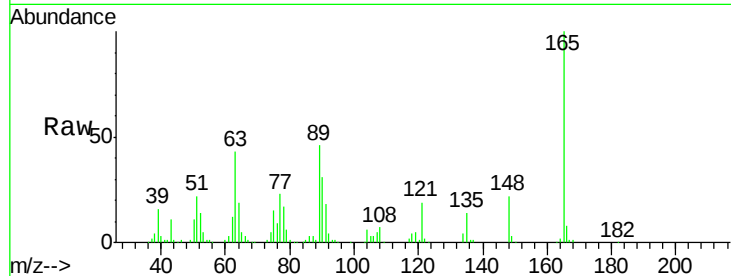




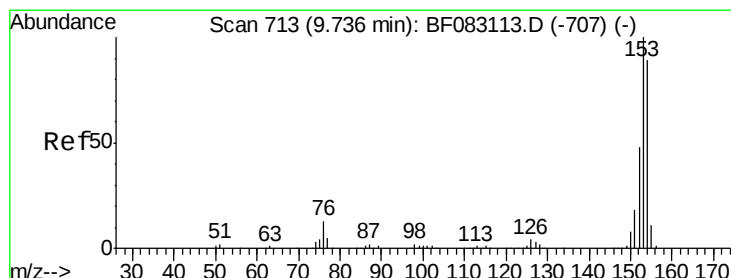
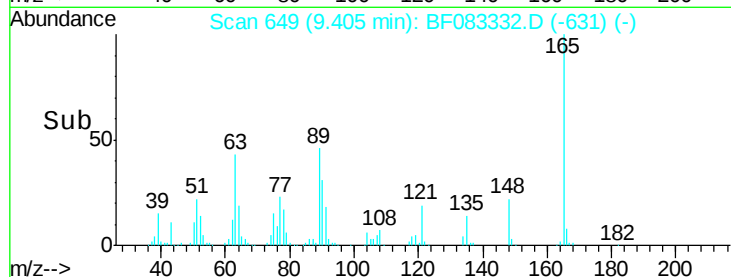
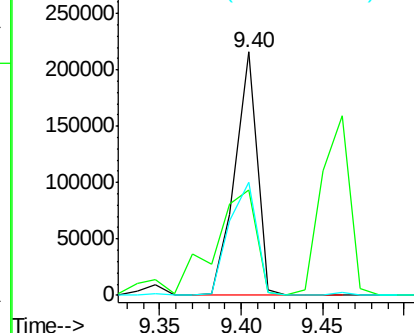
#50  
2,6-Dinitrotoluene  
Concen: 39.13 ng  
RT: 9.40 min Scan# 649  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 203330  
Ion Ratio Lower Upper  
165 100  
63 43.1 62.5 93.7#  
89 46.3 59.1 88.7#

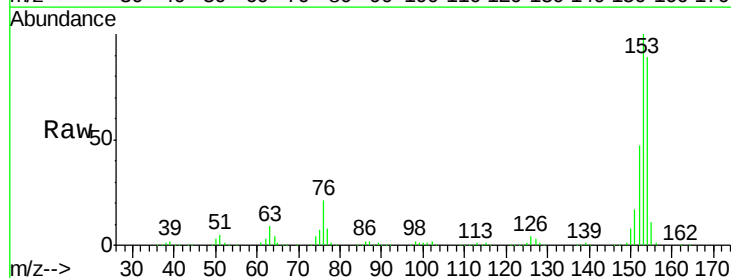


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

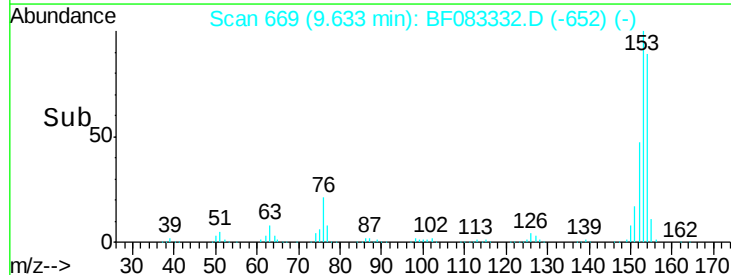
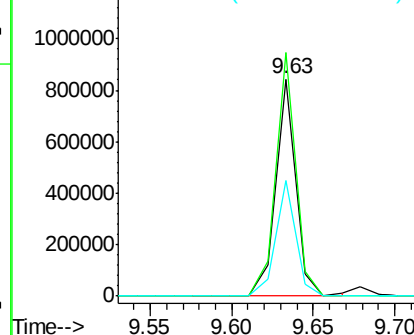


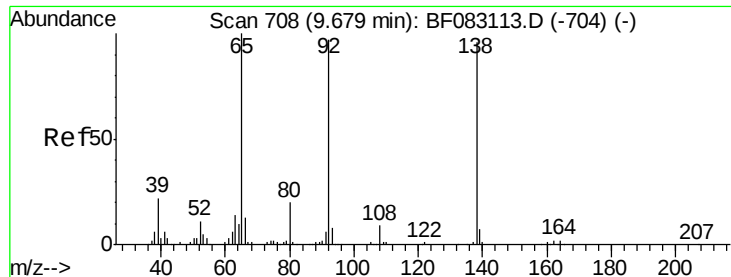
#51  
Acenaphthene  
Concen: 38.41 ng  
RT: 9.63 min Scan# 669  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:154 Resp: 728381  
Ion Ratio Lower Upper  
154 100  
153 112.3 89.6 134.4  
152 53.3 43.3 64.9



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: 38.53 ng

RT: 9.58 min Scan# 664

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

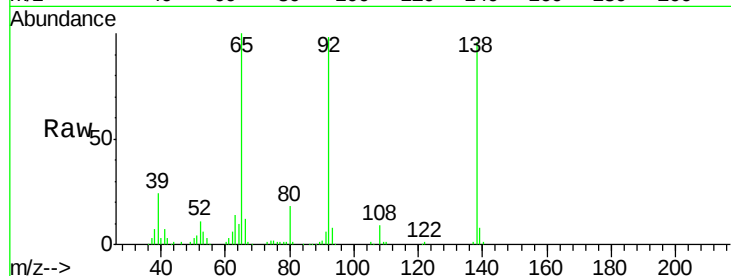
Tot Ion:138 Resp: 213452

Ion Ratio Lower Upper

138 100

108 9.2 7.8 11.6

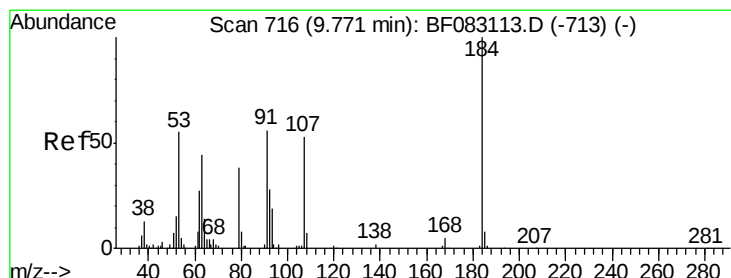
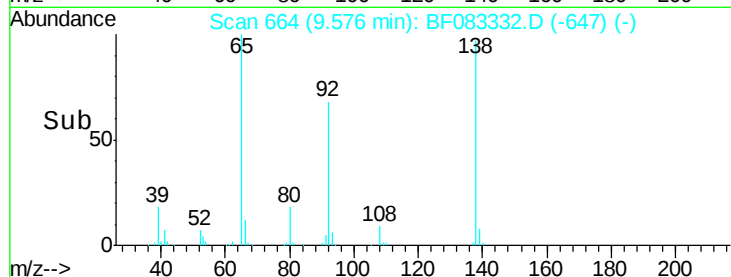
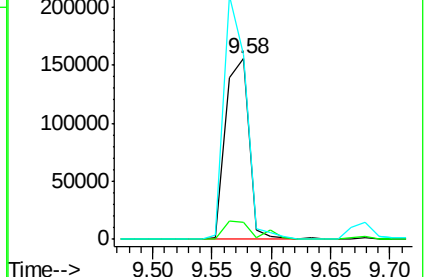
92 102.2 81.1 121.7



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



#53

2,4-Dinitrophenol

Concen: 23.81 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.09 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

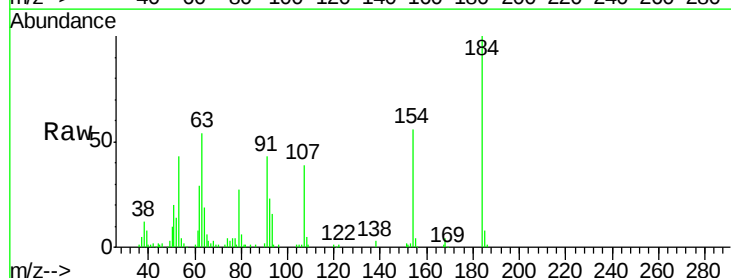
Tgt Ion:184 Resp: 71269

Ion Ratio Lower Upper

184 100

63 54.2 60.5 90.7#

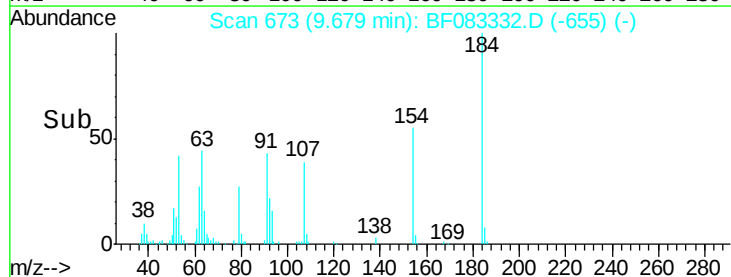
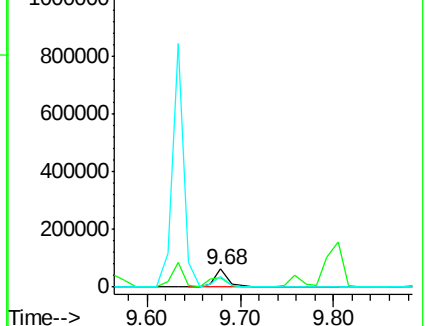
154 56.0 54.3 81.5

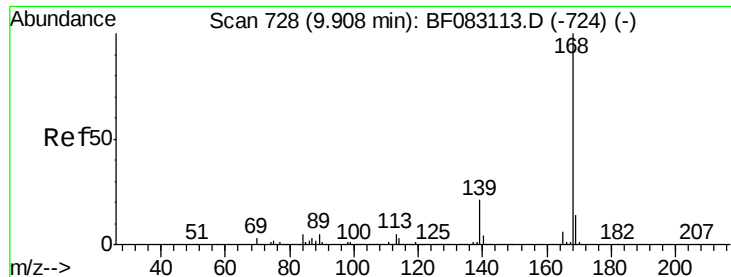


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

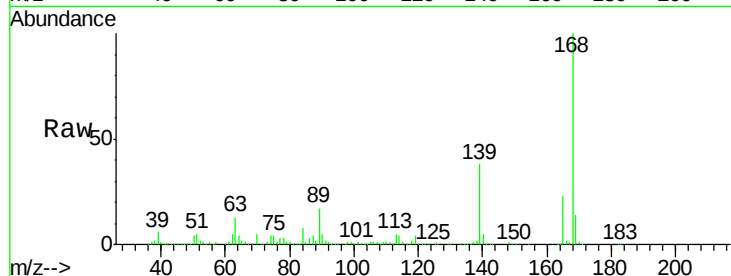




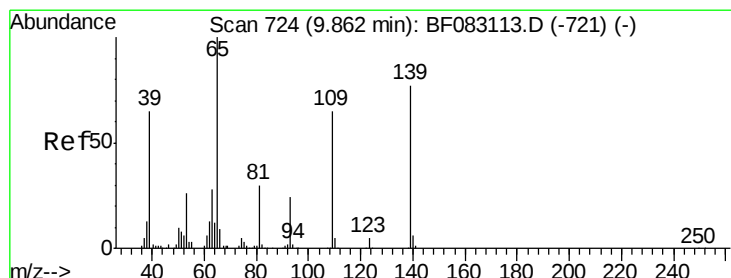
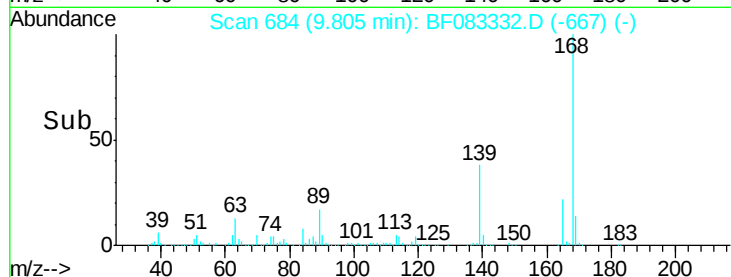
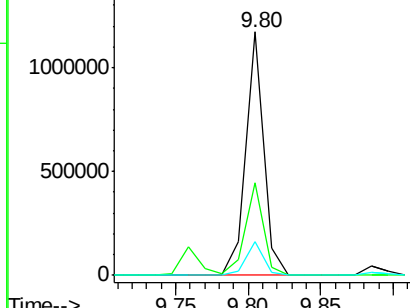
#54  
Dibenzenofuran  
Concen: 37.68 ng  
RT: 9.80 min Scan# 684  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:168 Resp: 1010518  
Ion Ratio Lower Upper  
168 100  
139 38.3 30.2 45.2  
169 14.1 10.9 16.3

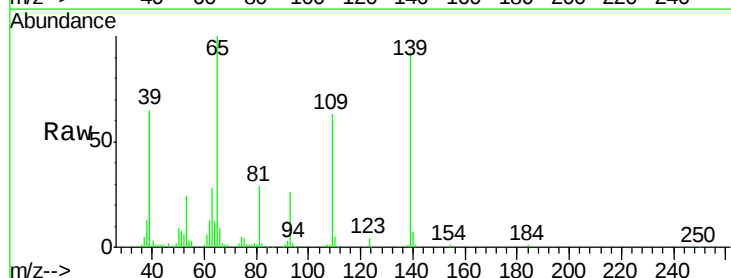


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

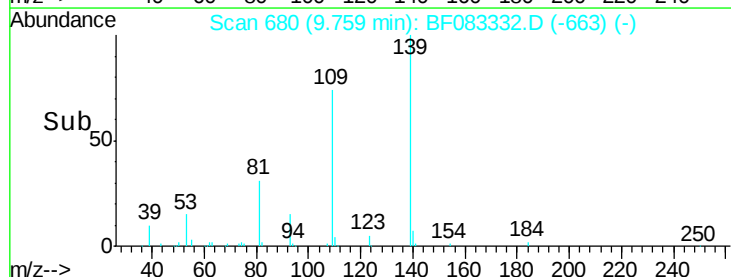
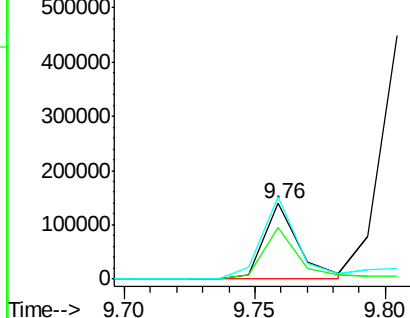


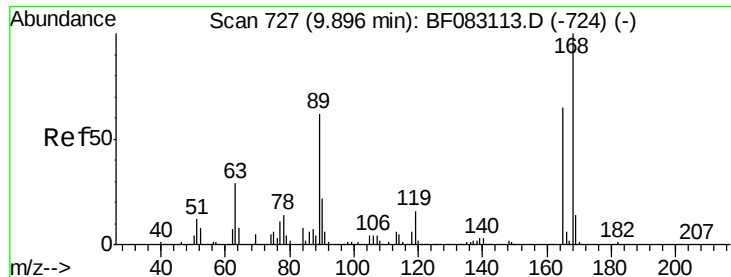
#55  
4-Nitrophenol  
Concen: 30.19 ng  
RT: 9.76 min Scan# 680  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:139 Resp: 128234  
Ion Ratio Lower Upper  
139 100  
109 68.3 64.0 104.0  
65 108.6 109.5 149.5#



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

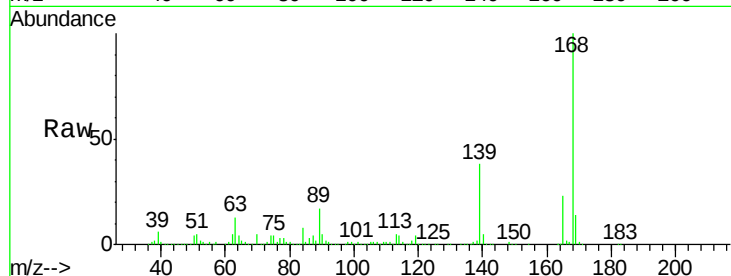




#56  
 2,4-Dinitrotoluene  
 Concen: 39.66 ng  
 RT: 9.80 min Scan# 684  
 Delta R.T. -0.09 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 59.7  | 54.5  | 81.7  |
| 89      | 75.1  | 77.3  | 115.9 |
| 182     | 2.2   | 1.8   | 2.6   |

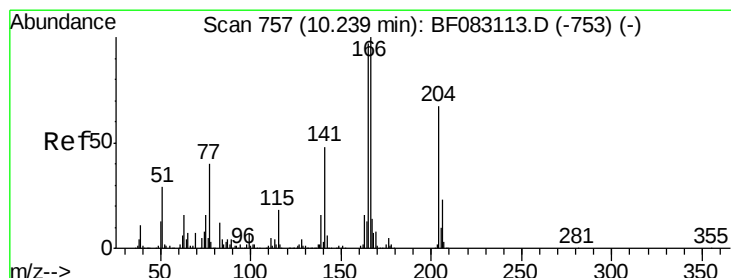
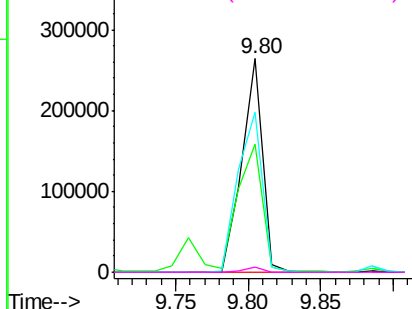
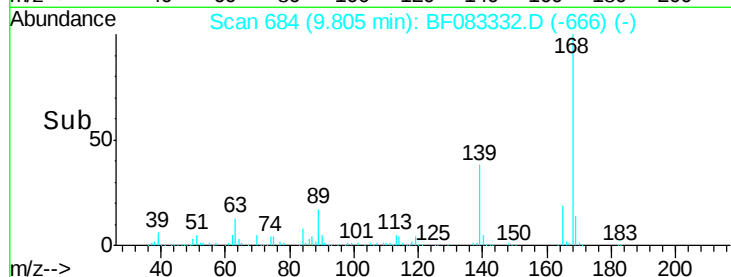


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

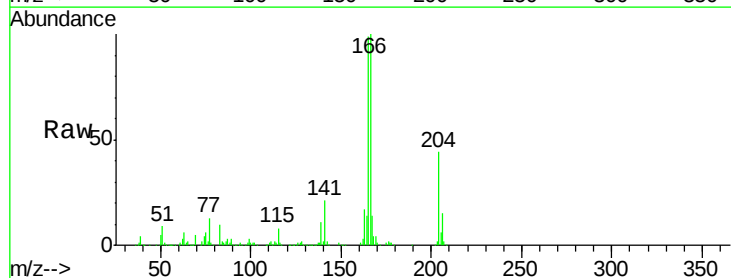
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57  
 Fluorene  
 Concen: 38.38 ng  
 RT: 10.15 min Scan# 714  
 Delta R.T. -0.09 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

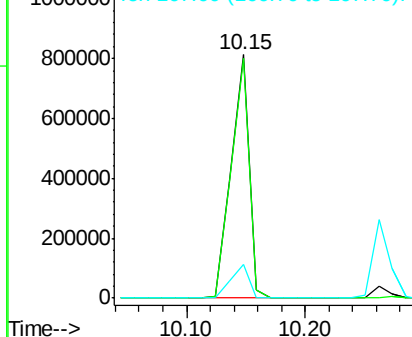
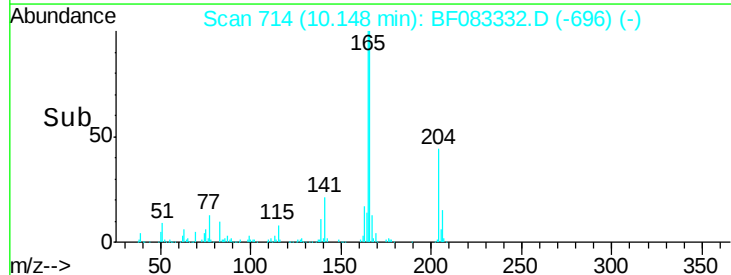
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.7  | 78.0  | 117.0 |
| 167     | 13.7  | 11.3  | 16.9  |

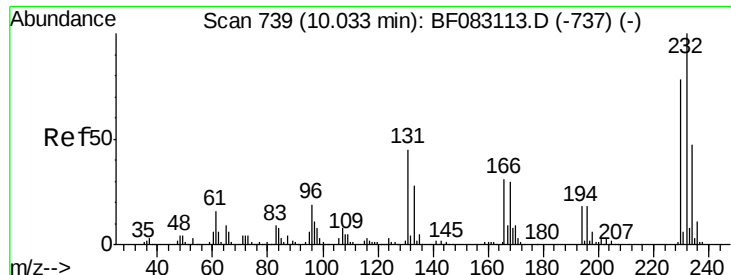


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

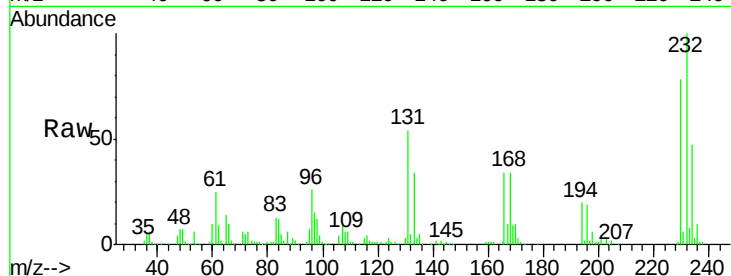




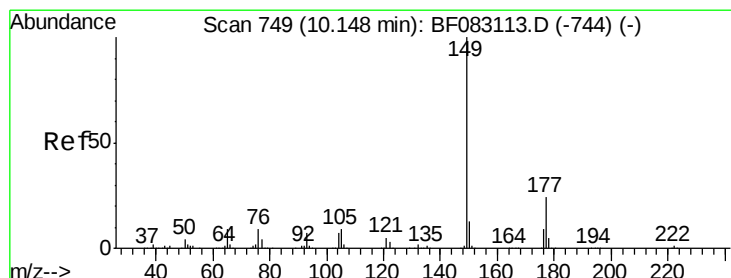
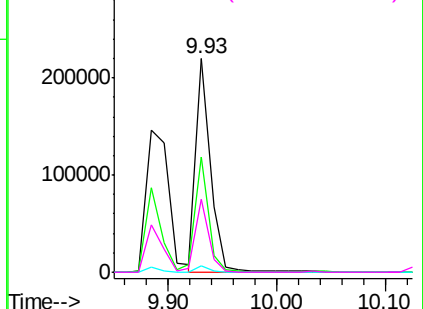
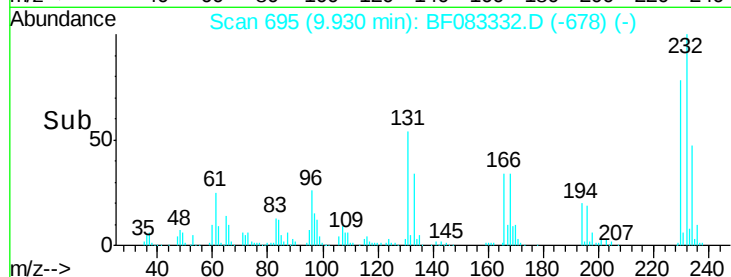
#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 35.09 ng  
 RT: 9.93 min Scan# 695  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:232 Resp: 205530  
 Ion Ratio Lower Upper  
 232 100  
 131 48.6 38.6 57.8  
 130 2.5 1.9 2.9  
 166 32.0 25.4 38.0

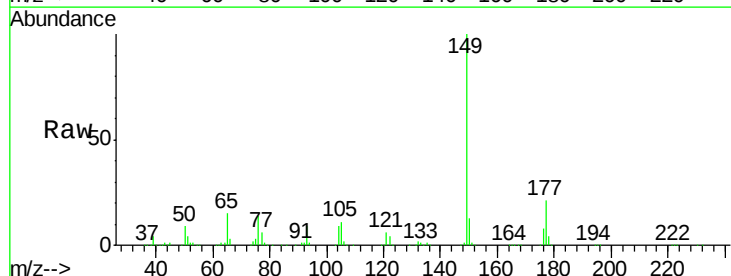


Abundance Ion 232.00 (231.70 to 232.70): E  
 Ion 131.00 (130.70 to 131.70): E  
 Ion 130.00 (129.70 to 130.70): E  
 Ion 166.00 (165.70 to 166.70): E

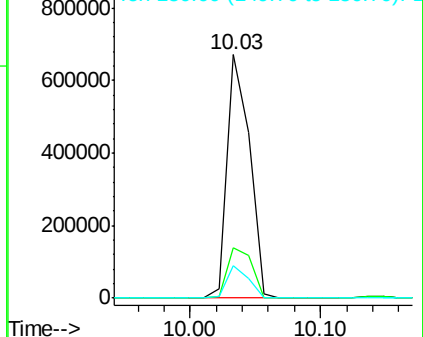
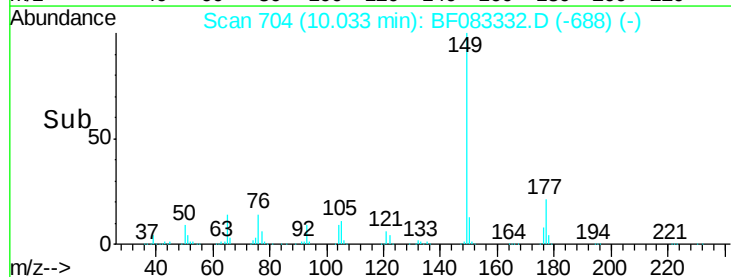


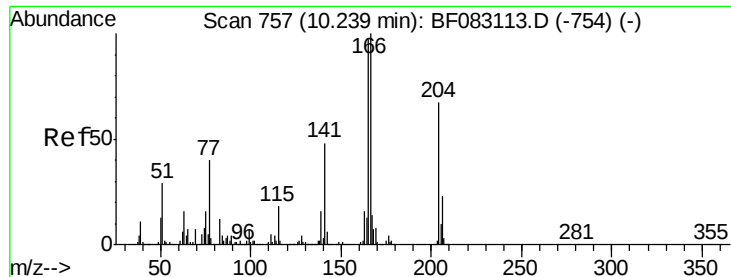
#59  
 Diethylphthalate  
 Concen: 34.67 ng  
 RT: 10.03 min Scan# 704  
 Delta R.T. -0.11 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Tgt Ion:149 Resp: 799258  
 Ion Ratio Lower Upper  
 149 100  
 177 20.7 19.4 29.2  
 150 13.2 10.2 15.2



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 177.00 (176.70 to 177.70): E  
 Ion 150.00 (149.70 to 150.70): E

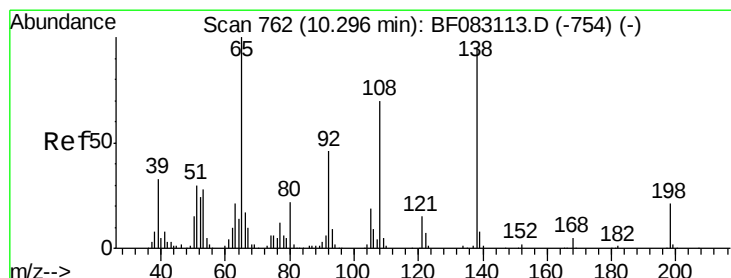
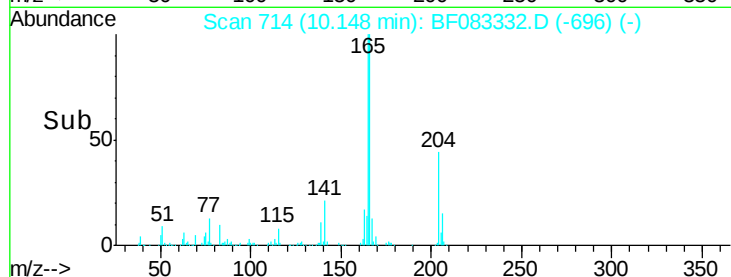
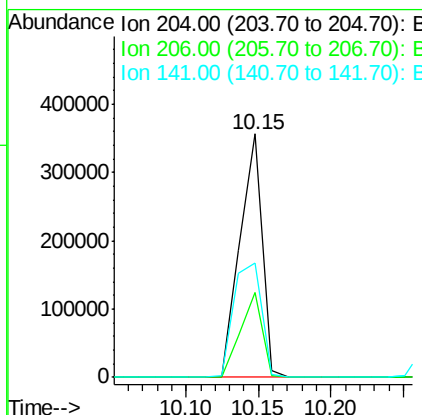
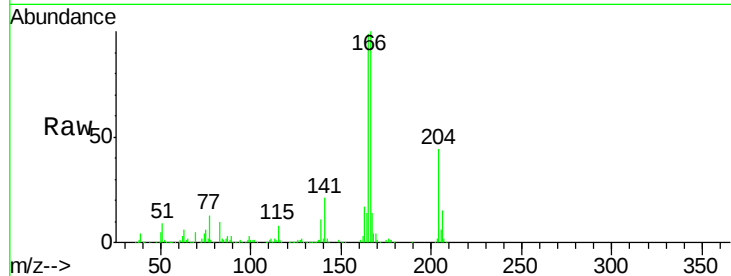




#60  
4-Chlorophenyl-phenylether  
Concen: 37.63 ng  
RT: 10.15 min Scan# 714  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

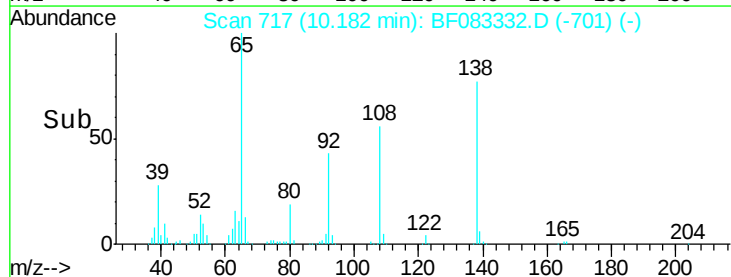
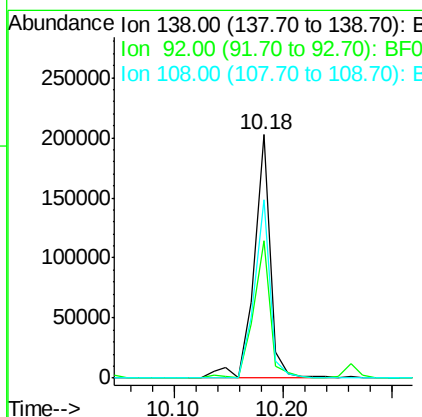
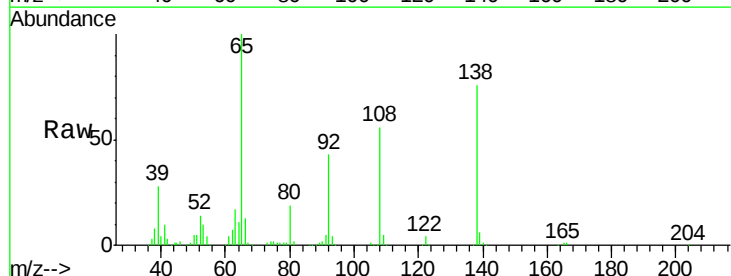
Instrument :  
BNA\_F  
ClientSampleId :

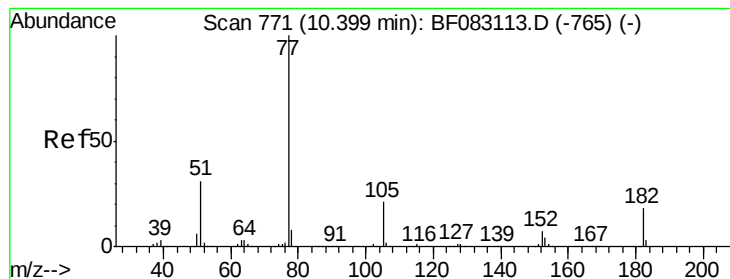
Tot Ion:204 Resp: 381926  
Ion Ratio Lower Upper  
204 100  
206 34.8 27.4 41.0  
141 46.9 57.4 86.2#



#61  
4-Nitroaniline  
Concen: 39.05 ng  
RT: 10.18 min Scan# 717  
Delta R.T. -0.11 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:138 Resp: 212976  
Ion Ratio Lower Upper  
138 100  
92 56.6 28.4 68.4  
108 73.0 53.5 93.5





#62

Azobenzene

Concen: 38.27 ng

RT: 10.30 min Scan# 727

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 77 Resp: 1006960

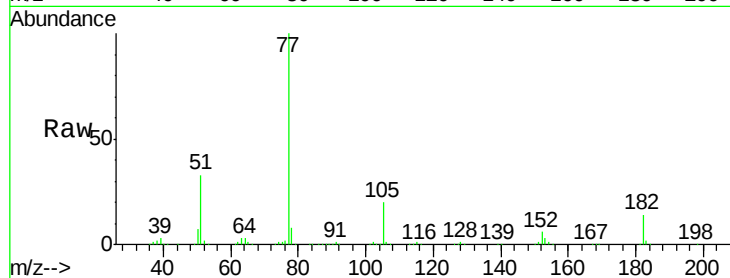
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 182 | 14.2  | 0.0   | 38.3  |
| 105 | 19.6  | 1.2   | 41.2  |
| 51  | 32.8  | 11.1  | 51.1  |

77 100

182 14.2 0.0 38.3

105 19.6 1.2 41.2

51 32.8 11.1 51.1

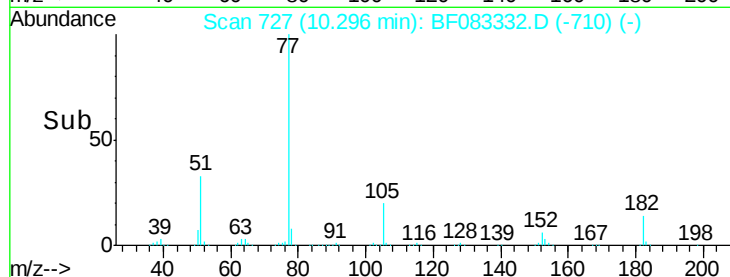


Abundance Ion 77.00 (76.70 to 77.70): BF0

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



Time-->

10.30

800000

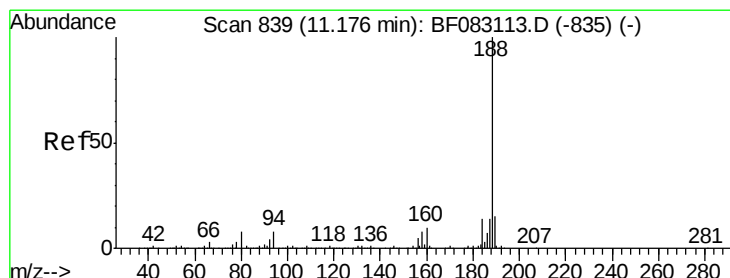
600000

400000

200000

0

10.20 10.30 10.40



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.07 min Scan# 795

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

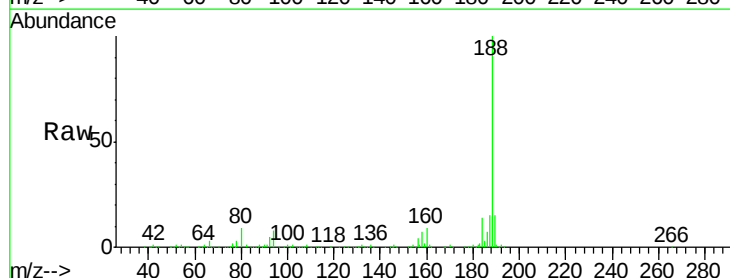
Tgt Ion: 188 Resp: 514502

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 8.1   | 6.0   | 9.0   |
| 80  | 9.4   | 6.7   | 10.1  |

188 100

94 8.1 6.0 9.0

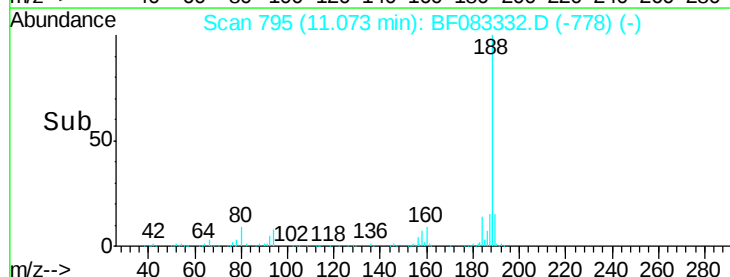
80 9.4 6.7 10.1



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



Time-->

11.07

600000

500000

400000

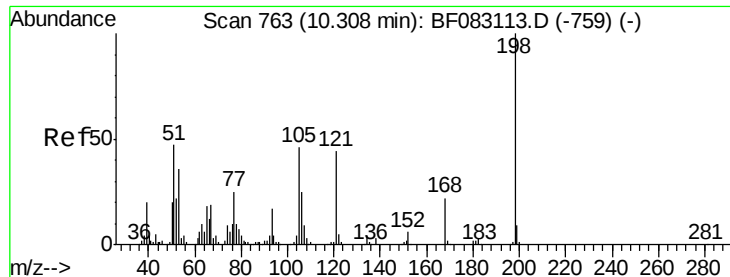
300000

200000

100000

0

11.00 11.10 11.20



#64

4,6-Dinitro-2-methylphenol

Concen: 33.74 ng

RT: 10.20 min Scan# 719

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

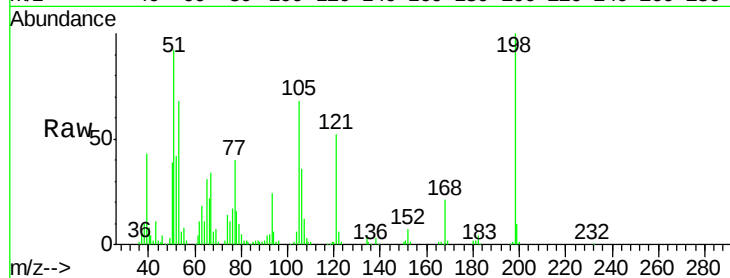
Tot Ion:198 Resp: 119595

Ion Ratio Lower Upper

198 100

51 92.2 27.0 67.0#

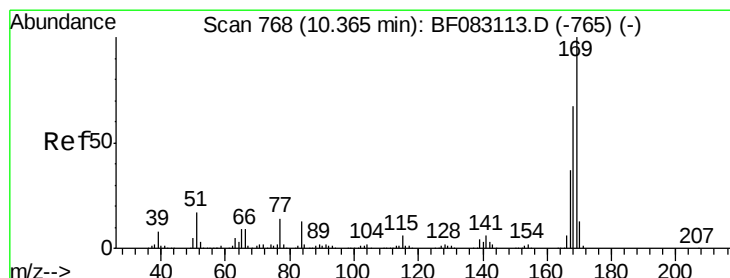
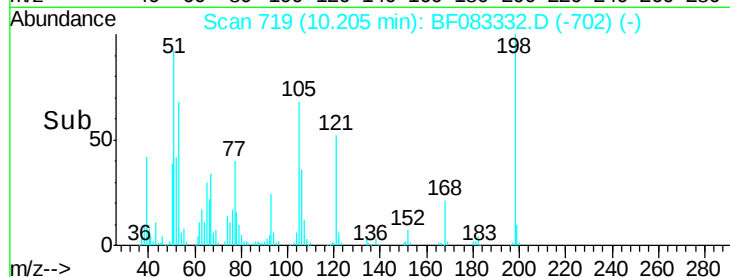
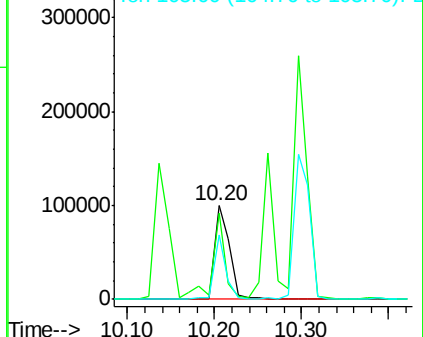
105 68.4 26.1 66.1#



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: 39.78 ng

RT: 10.26 min Scan# 724

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

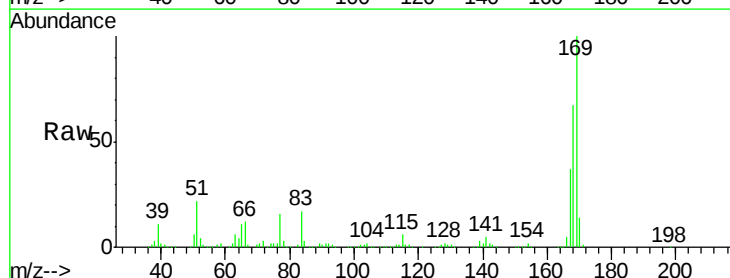
Tgt Ion:169 Resp: 696046

Ion Ratio Lower Upper

169 100

168 66.7 53.8 80.6

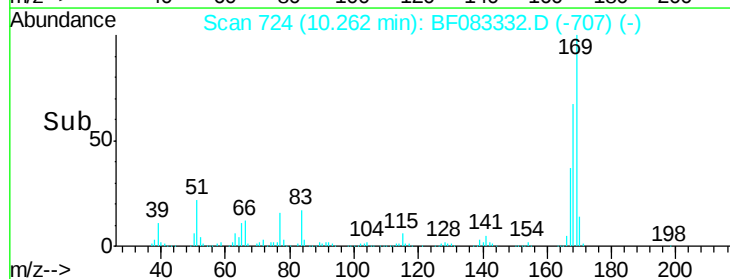
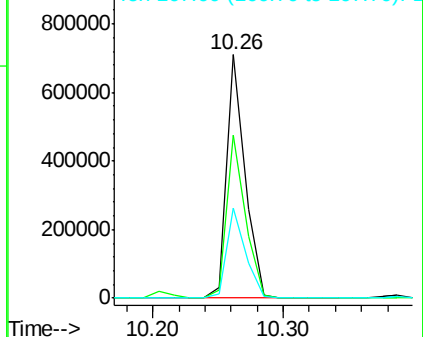
167 37.0 29.8 44.8

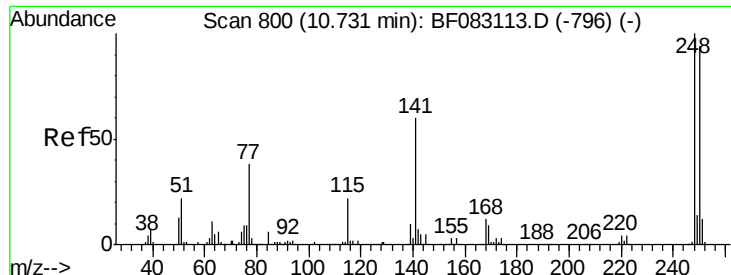


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

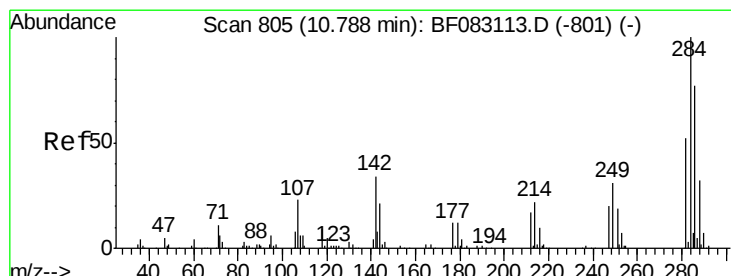
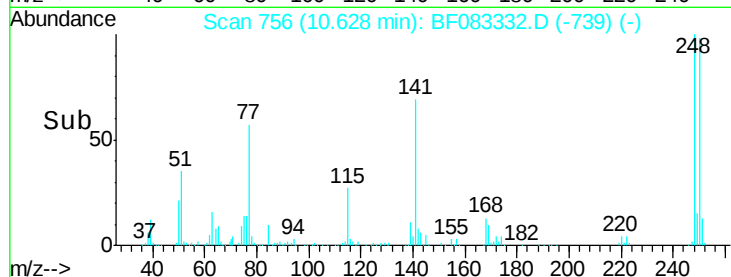
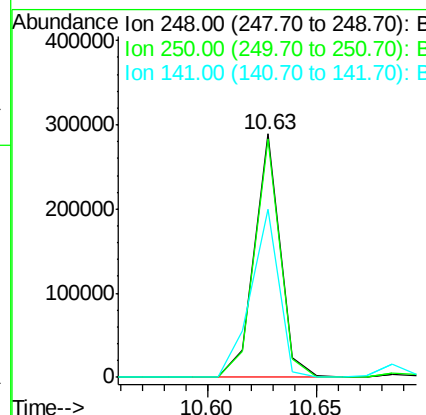
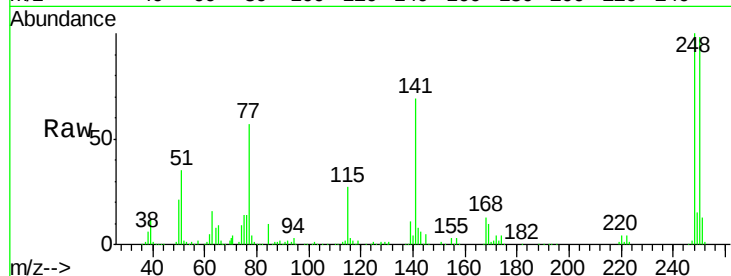




#66  
4-Bromophenyl-phenylether  
Concen: 41.60 ng  
RT: 10.63 min Scan# 756  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

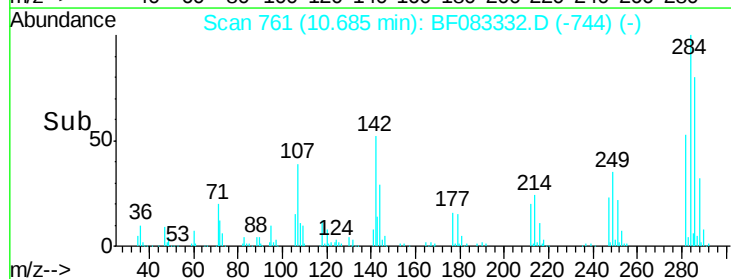
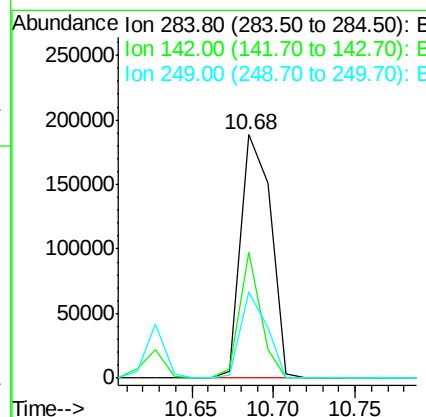
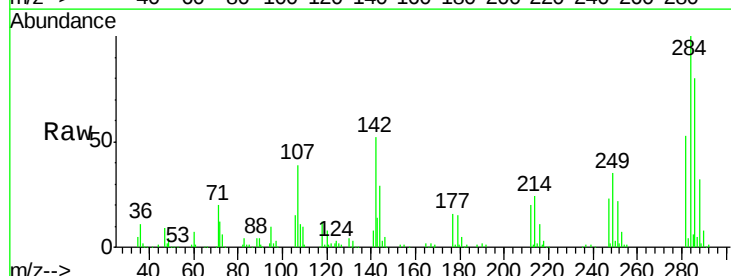
Instrument :  
BNA\_F  
ClientSampleId :

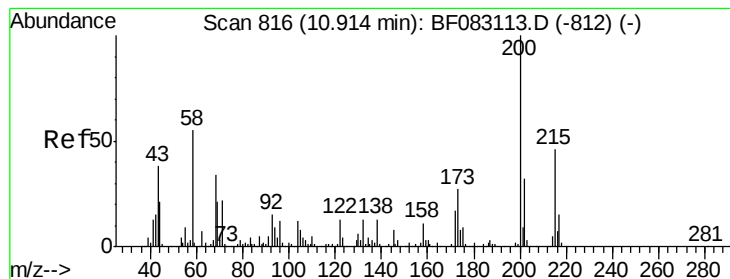
Tot Ion:248 Resp: 237497  
Ion Ratio Lower Upper  
248 100  
250 97.9 75.4 113.2  
141 69.1 48.1 72.1



#67  
Hexachlorobenzene  
Concen: 38.08 ng  
RT: 10.68 min Scan# 761  
Delta R.T. -0.10 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:284 Resp: 239407  
Ion Ratio Lower Upper  
284 100  
142 51.6 27.6 41.4#  
249 35.2 25.5 38.3





#68

Atrazine

Concen: 41.69 ng

RT: 10.80 min Scan# 771

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

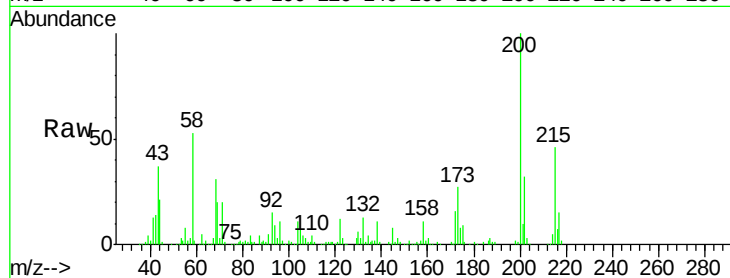
Tot Ion:200 Resp: 211867

Ion Ratio Lower Upper

200 100

173 27.2 7.2 47.2

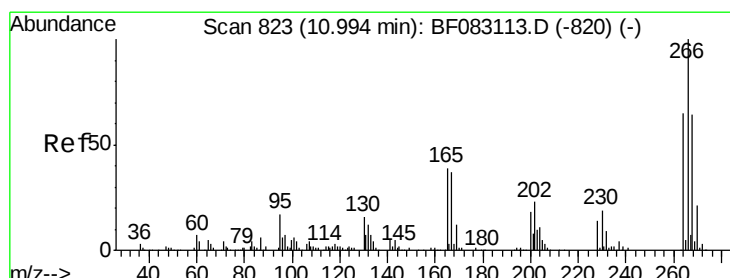
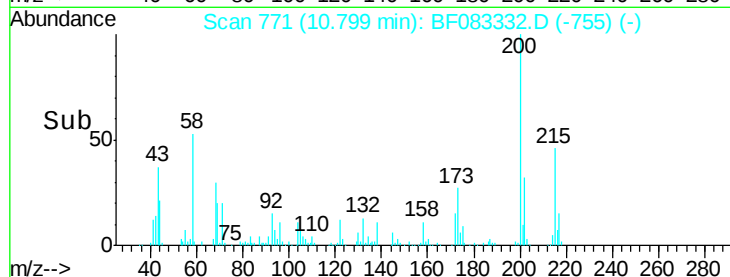
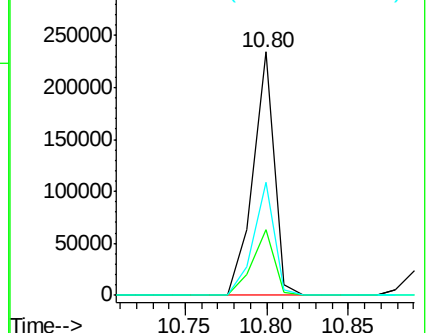
215 46.4 25.7 65.7



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: 29.54 ng

RT: 10.89 min Scan# 779

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

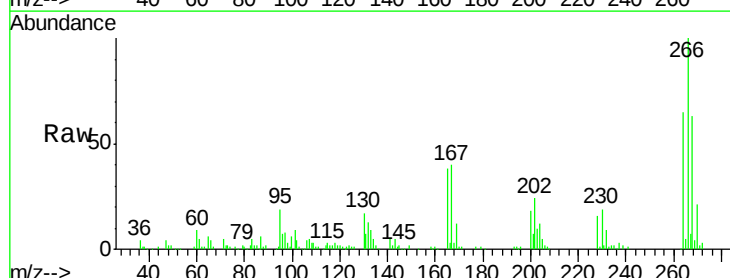
Tgt Ion:266 Resp: 120954

Ion Ratio Lower Upper

266 100

268 63.3 51.4 77.0

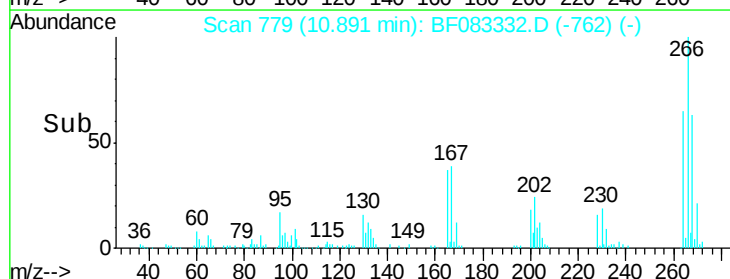
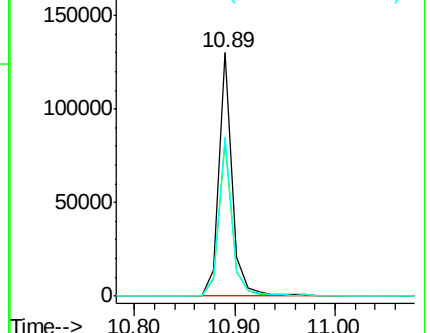
264 65.1 51.7 77.5

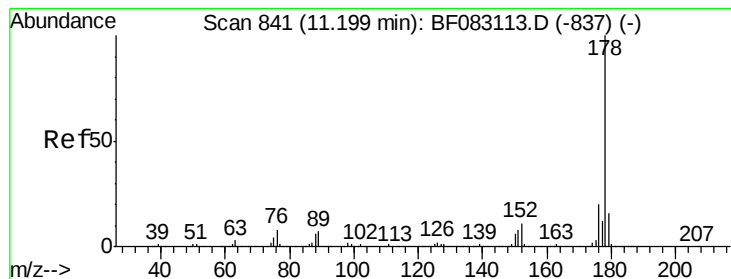


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 40.65 ng

RT: 11.10 min Scan# 797

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

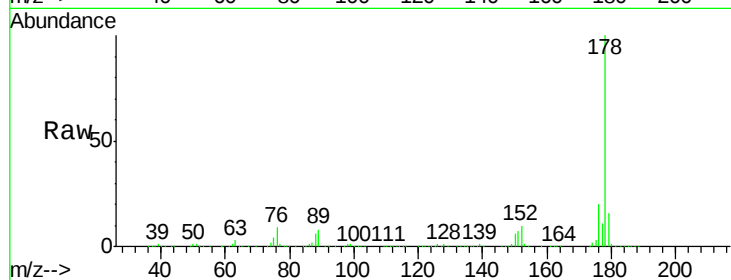
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 1204891

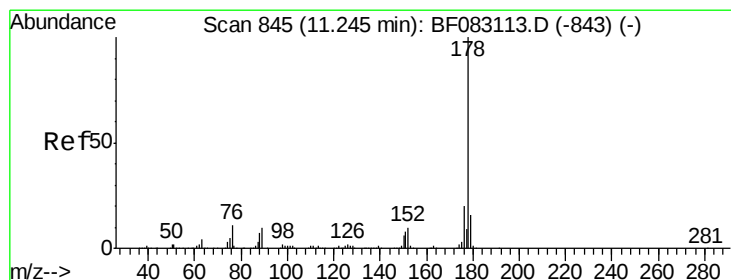
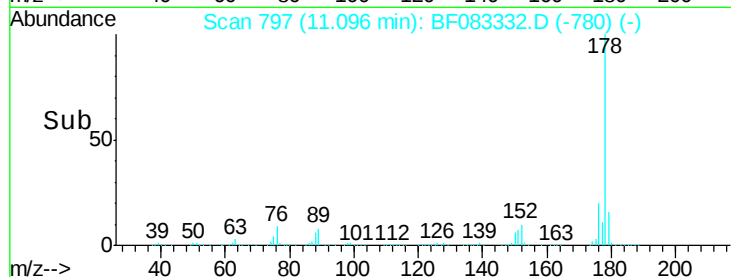
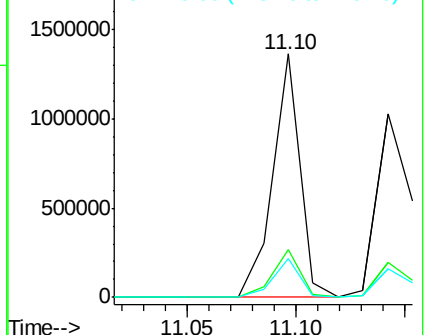
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.8  | 16.2  | 24.2  |
| 179 | 16.0  | 12.8  | 19.2  |



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: 37.12 ng

RT: 11.14 min Scan# 801

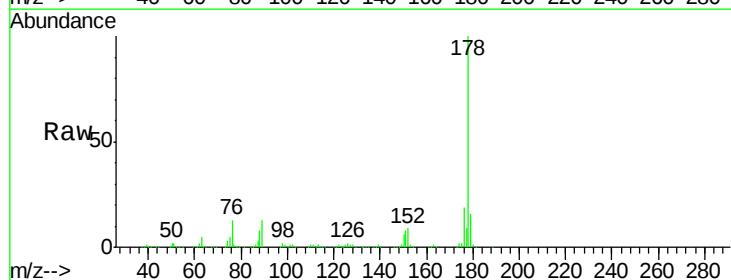
Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Tgt Ion:178 Resp: 1122554

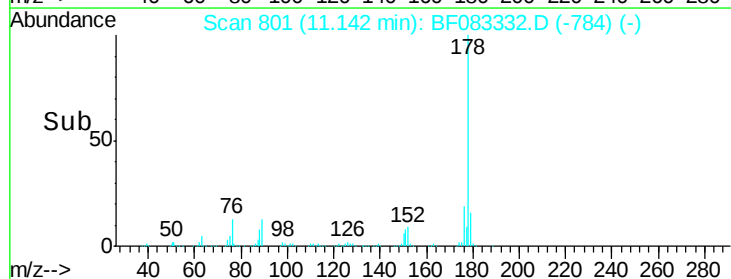
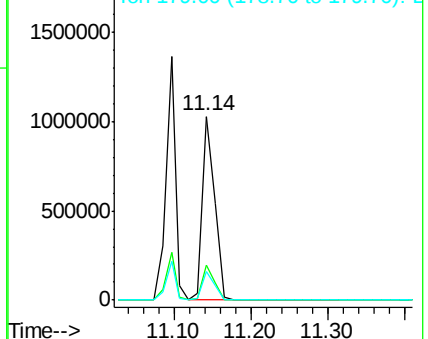
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.8  | 15.6  | 23.4  |
| 179 | 15.6  | 13.2  | 19.8  |

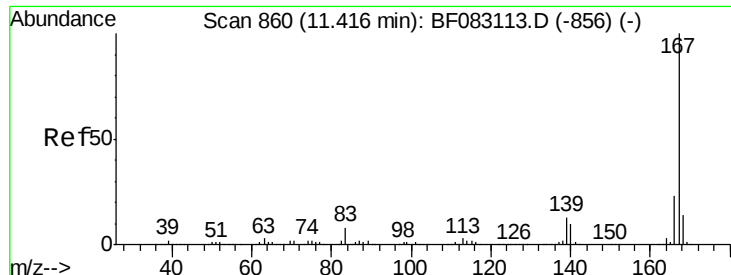


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

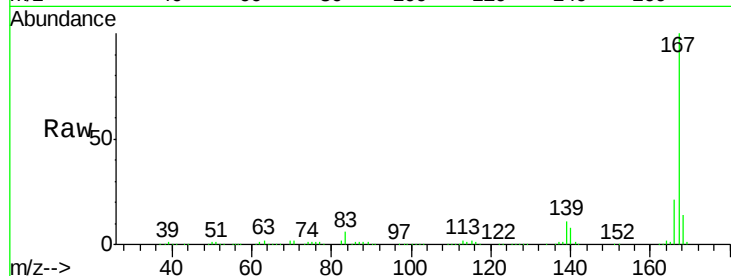




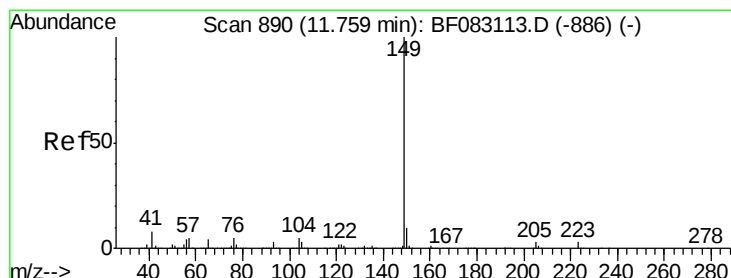
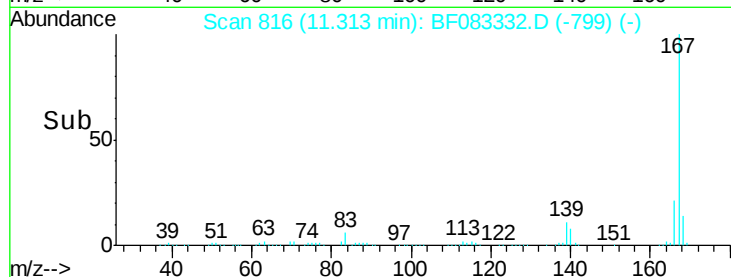
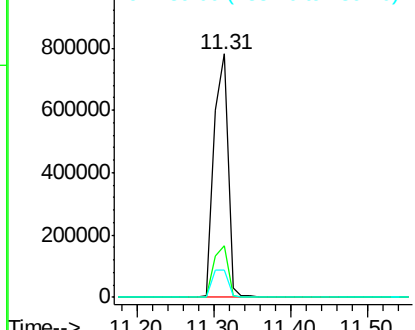
#72  
 Carbazole  
 Concen: 36.53 ng  
 RT: 11.31 min Scan# 816  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:167 Resp: 981968  
 Ion Ratio Lower Upper  
 167 100  
 166 21.3 18.0 27.0  
 139 11.1 10.5 15.7

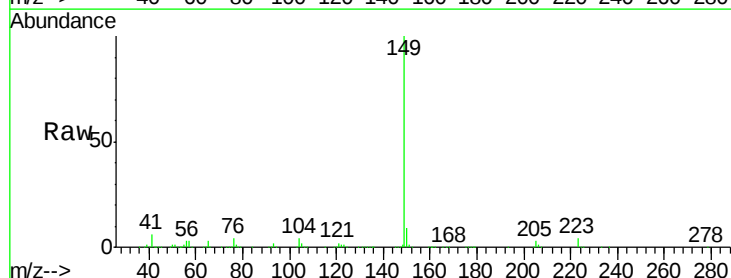


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

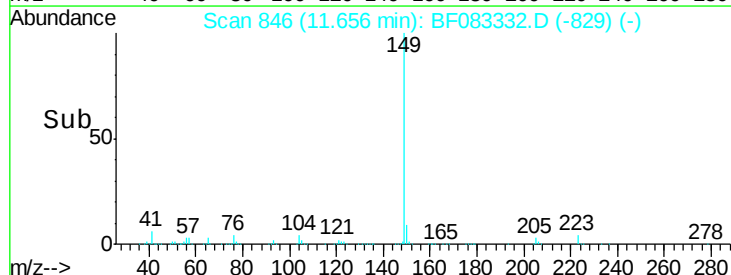
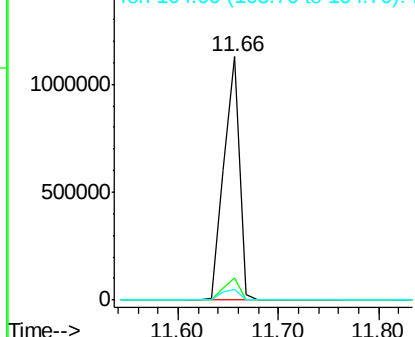


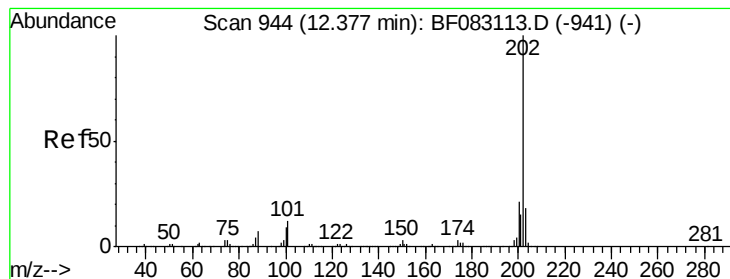
#73  
 Di-n-butylphthalate  
 Concen: 36.91 ng  
 RT: 11.66 min Scan# 846  
 Delta R.T. -0.10 min  
 Lab File: BF083332.D  
 Acq: 27 Nov 2015 16:36

Tgt Ion:149 Resp: 1211116  
 Ion Ratio Lower Upper  
 149 100  
 150 9.2 8.0 12.0  
 104 4.1 4.4 6.6#



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 35.35 ng

RT: 12.27 min Scan# 900

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

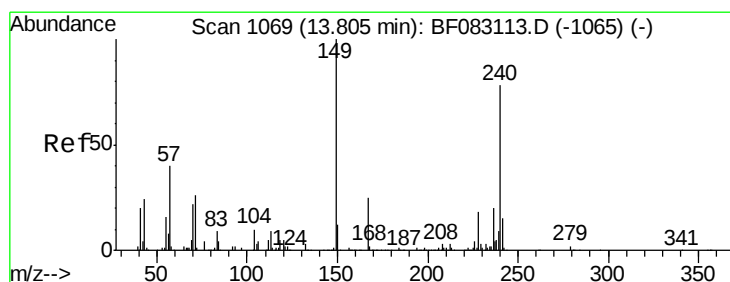
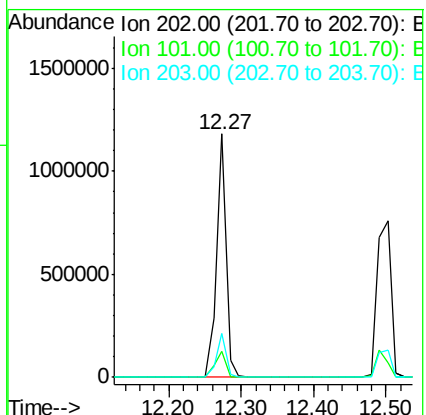
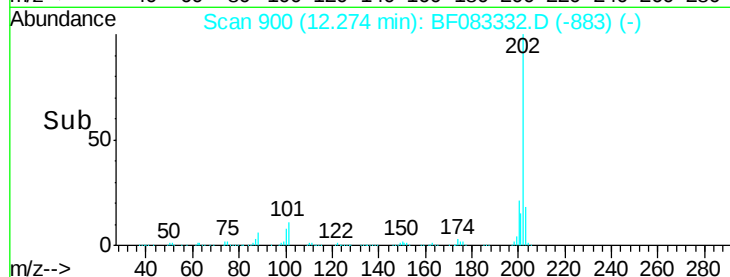
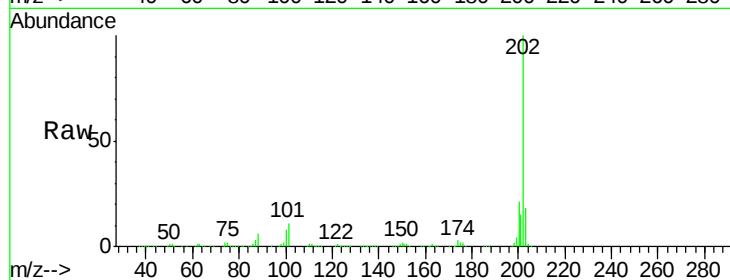
Tot Ion:202 Resp: 1072460

Ion Ratio Lower Upper

202 100

101 10.9 0.0 32.3

203 17.9 0.0 38.4



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.69 min Scan# 1024

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

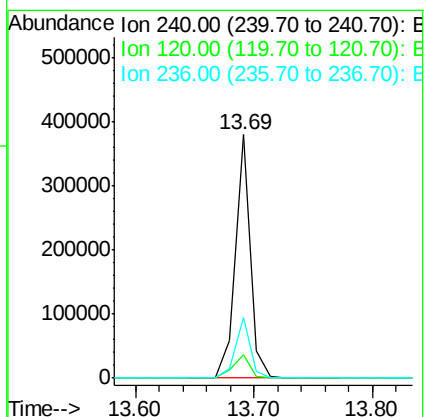
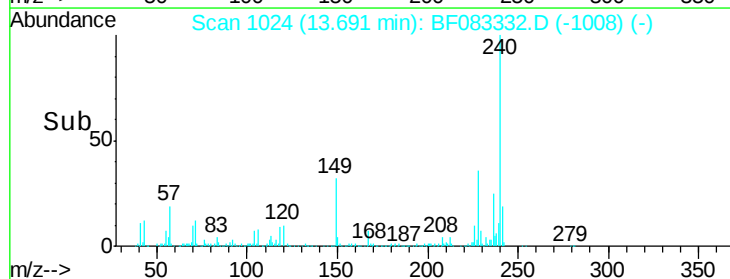
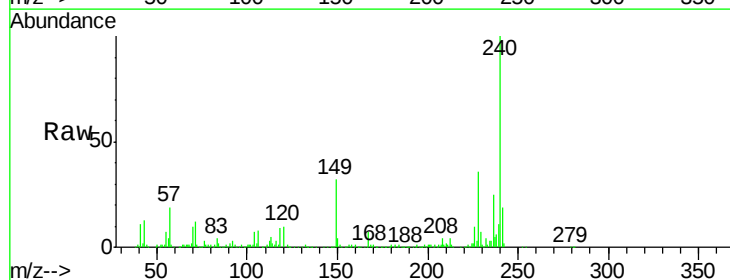
Tgt Ion:240 Resp: 333024

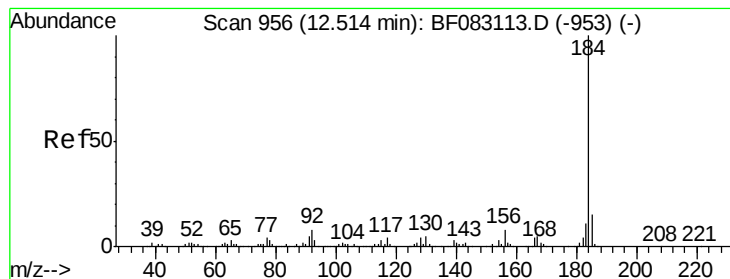
Ion Ratio Lower Upper

240 100

120 9.8 5.4 8.2#

236 25.1 20.6 31.0





#76

Benzidine

Concen: 48.66 ng

RT: 12.41 min Scan# 912

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

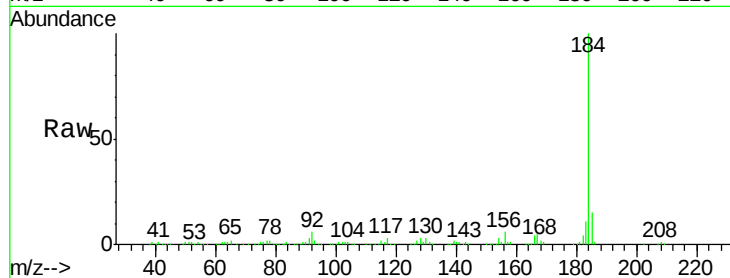
Tot Ion:184 Resp: 424701

Ion Ratio Lower Upper

184 100

185 15.3 11.7 17.5

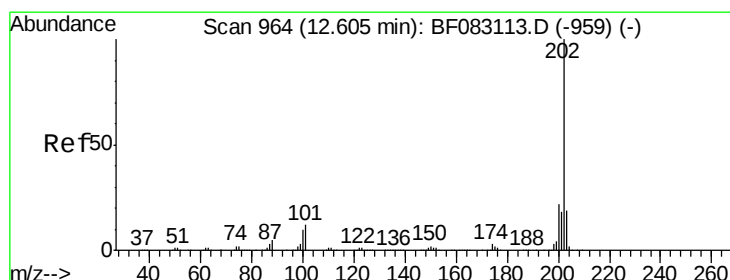
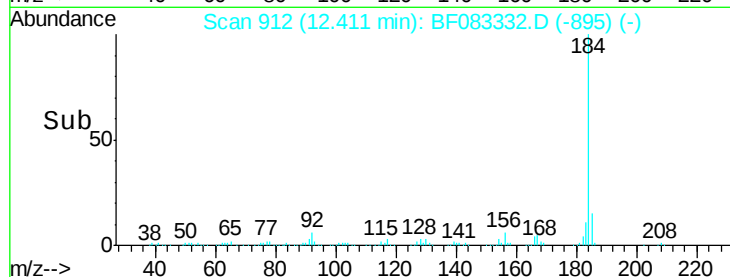
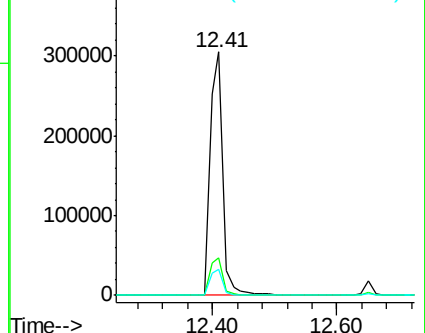
183 10.8 8.8 13.2



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 44.93 ng

RT: 12.50 min Scan# 920

Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

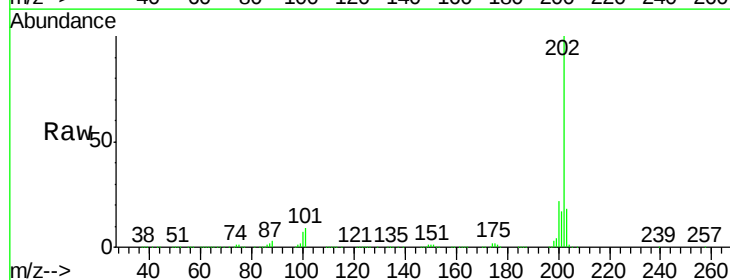
Tgt Ion:202 Resp: 1022182

Ion Ratio Lower Upper

202 100

200 21.7 17.8 26.6

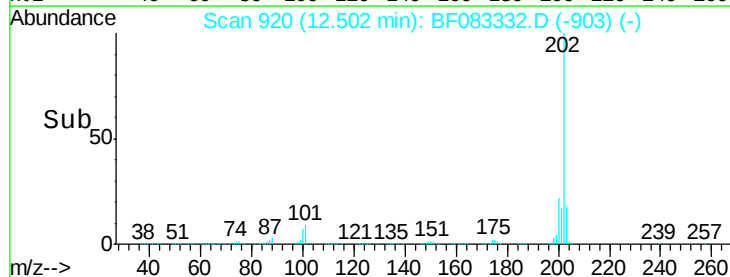
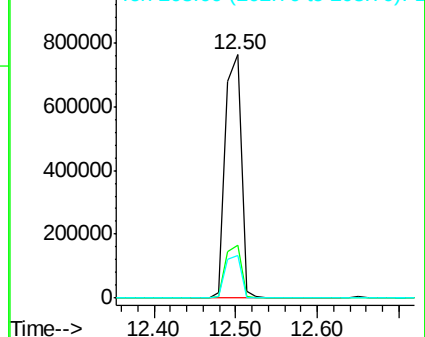
203 17.7 15.0 22.4

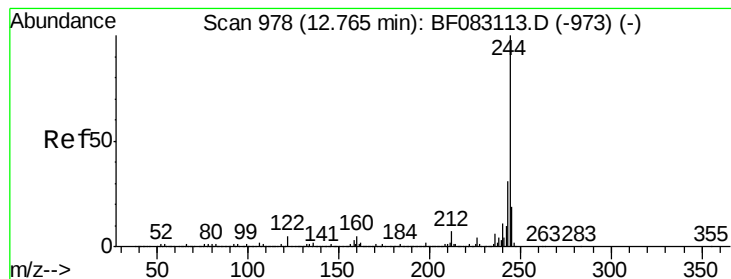


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 78.96 ng

RT: 12.65 min Scan# 933

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

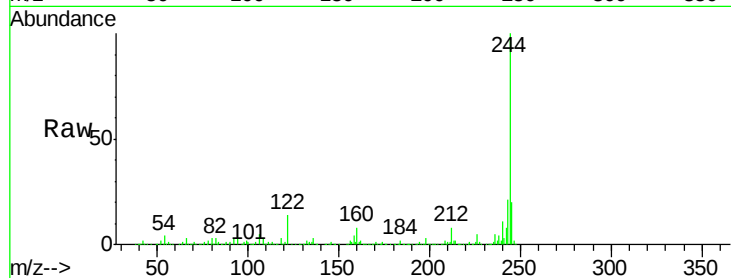
Tot Ion:244 Resp: 1116599

Ion Ratio Lower Upper

244 100

212 7.7 5.4 8.2

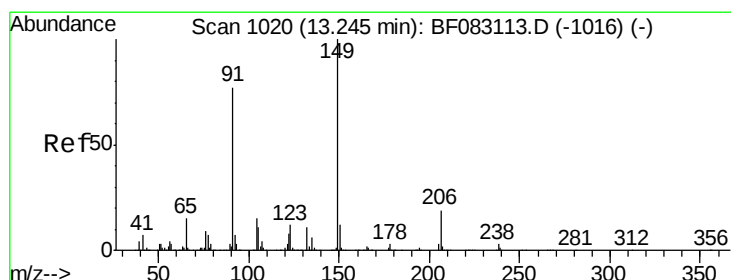
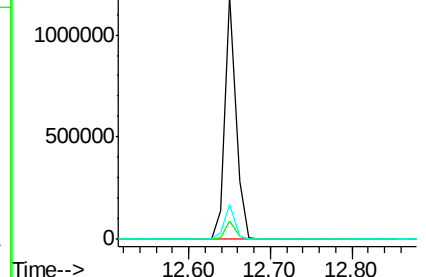
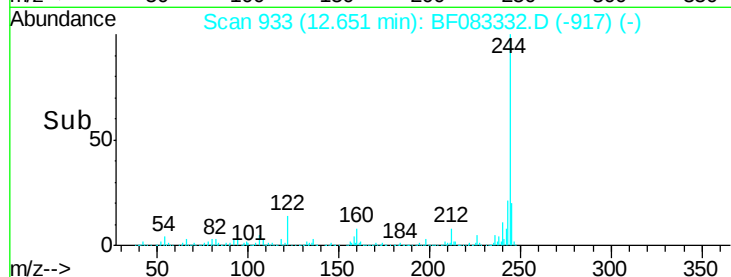
122 14.4 4.3 6.5#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 33.29 ng

RT: 13.13 min Scan# 975

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

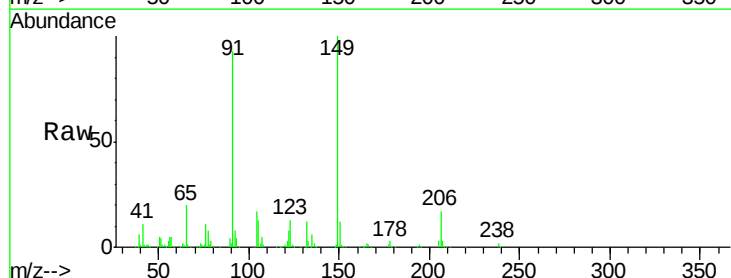
Tgt Ion:149 Resp: 358478

Ion Ratio Lower Upper

149 100

91 93.5 61.5 92.3#

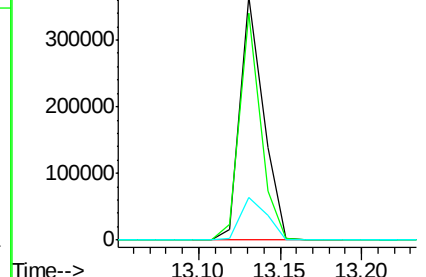
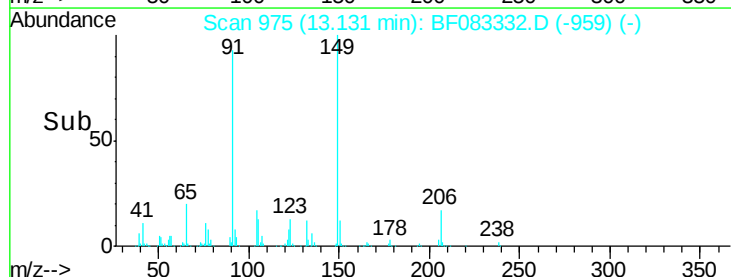
206 17.3 15.3 22.9

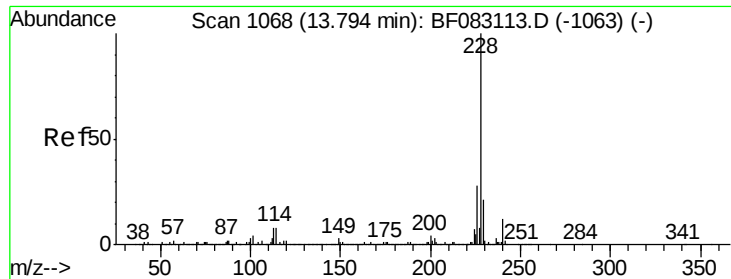


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E

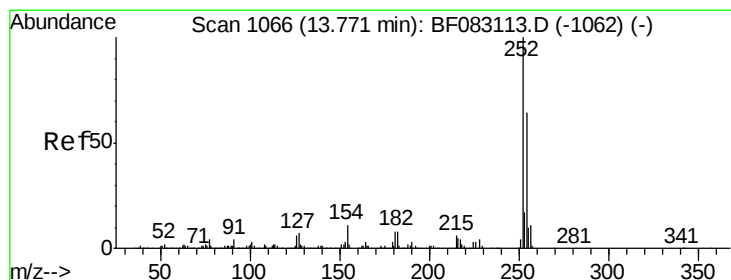
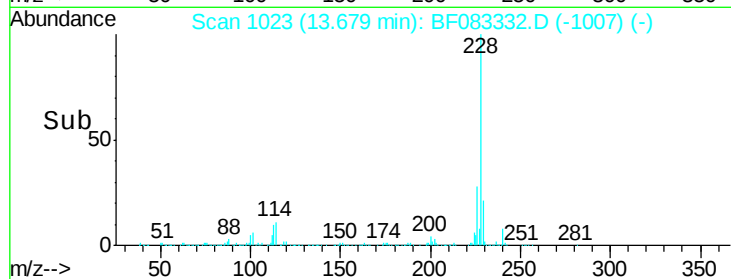
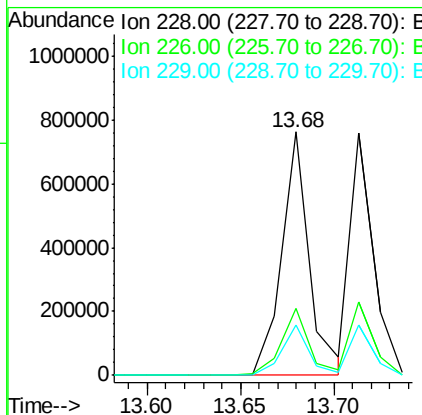
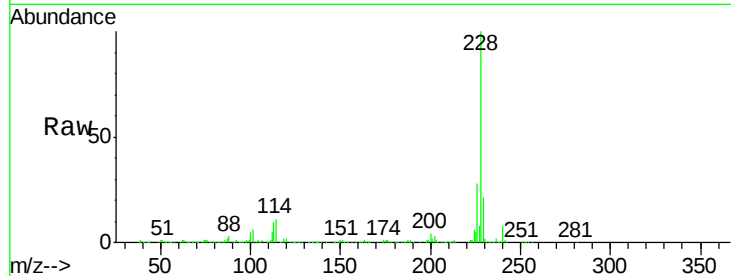




#80  
Benzo(a)anthracene  
Concen: 38.13 ng  
RT: 13.68 min Scan# 1023  
Delta R.T. -0.11 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

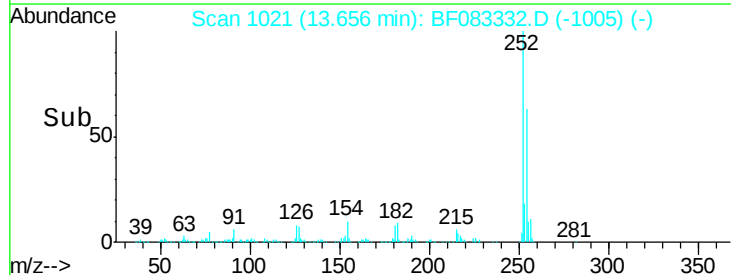
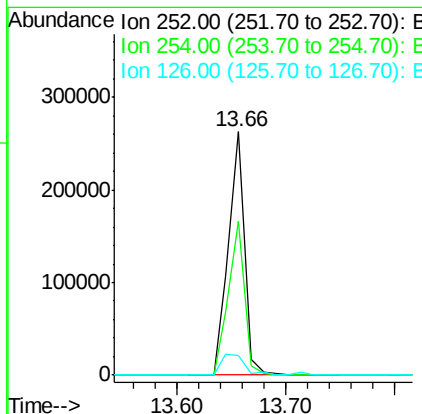
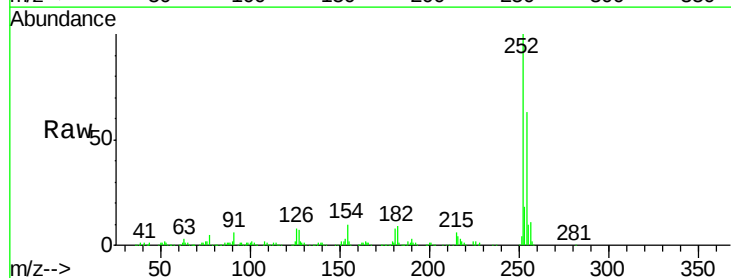
Instrument :  
BNA\_F  
ClientSampled :

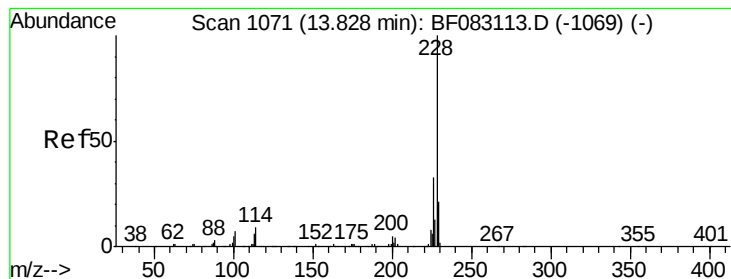
Tot Ion:228 Resp: 785357  
Ion Ratio Lower Upper  
228 100  
226 27.5 22.6 33.8  
229 20.6 16.6 24.8



#81  
3,3'-Dichlorobenzidine  
Concen: 37.59 ng  
RT: 13.66 min Scan# 1021  
Delta R.T. -0.11 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:252 Resp: 269467  
Ion Ratio Lower Upper  
252 100  
254 63.4 51.5 77.3  
126 7.8 5.2 7.8#





#82

Chrysene

Concen: 35.06 ng

RT: 13.71 min Scan# 1026

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

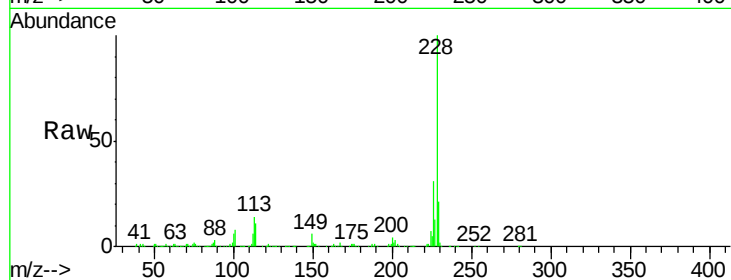
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:228 Resp: 669715

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.5  | 25.5  | 38.3  |
| 229 | 20.7  | 16.6  | 25.0  |

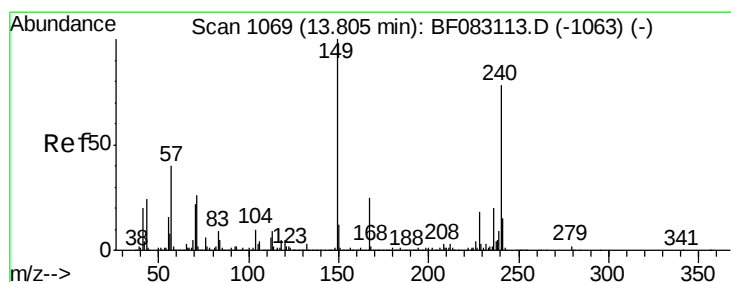
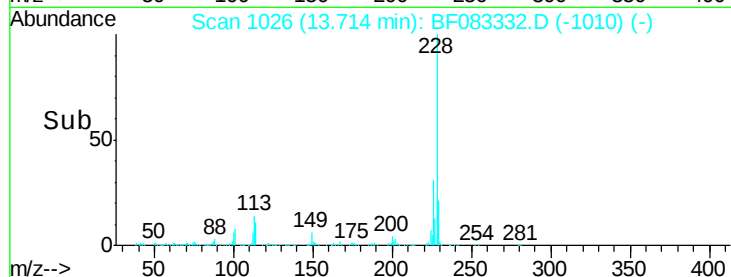
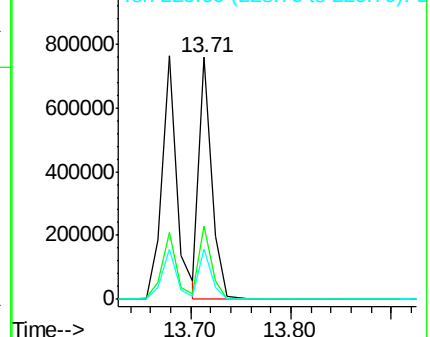


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 35.50 ng

RT: 13.70 min Scan# 1025

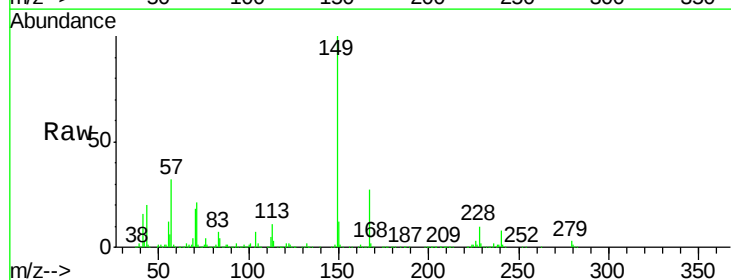
Delta R.T. -0.10 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Tgt Ion:149 Resp: 499278

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 26.7  | 20.1  | 30.1  |
| 279 | 3.0   | 1.7   | 2.5   |

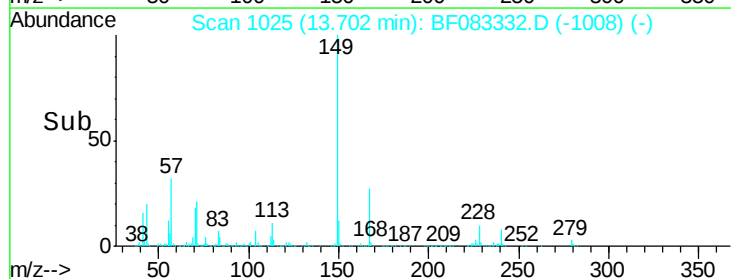
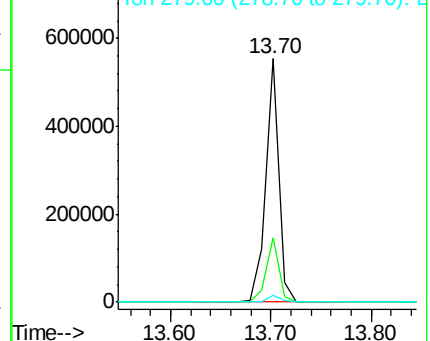


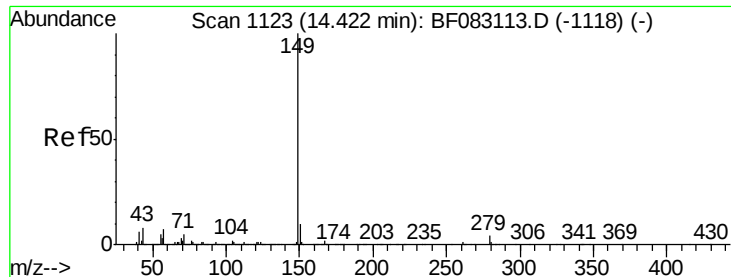
Abundance

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: 36.06 ng

RT: 14.31 min Scan# 1078

Delta R.T. -0.11 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Instrument :

BNA\_F

ClientSampleId :

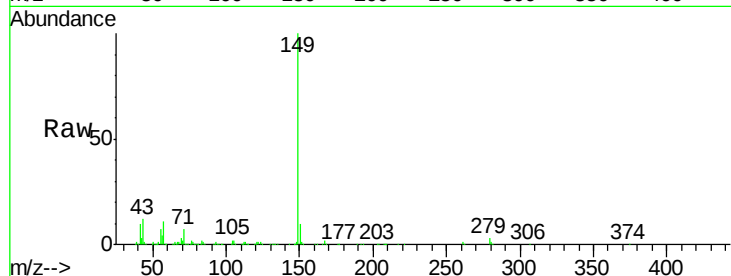
Tot Ion:149 Resp: 872923

Ion Ratio Lower Upper

149 100

167 1.6 1.2 1.8

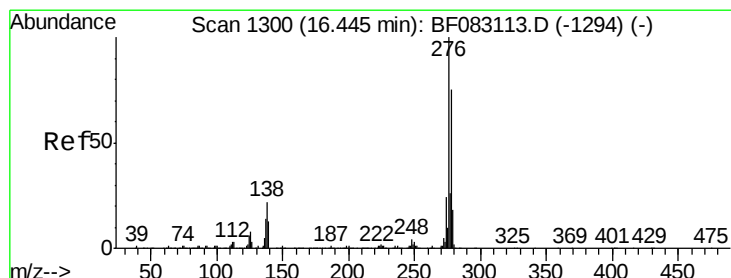
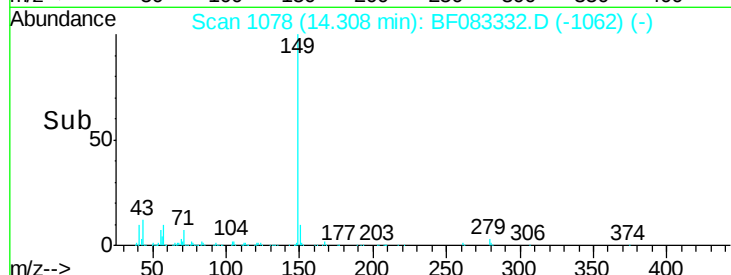
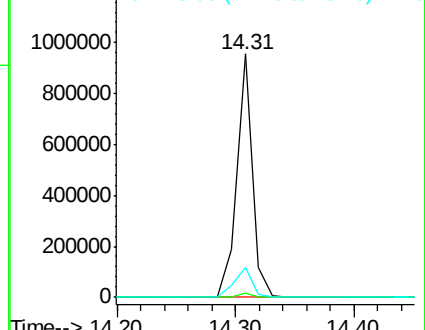
43 14.0 9.5 14.3



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: 56.43 ng

RT: 16.25 min Scan# 1248

Delta R.T. -0.19 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

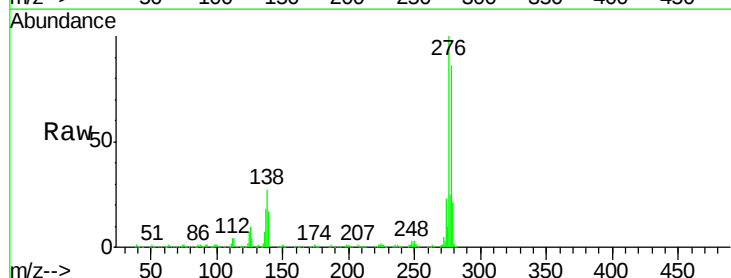
Tgt Ion:276 Resp: 980307

Ion Ratio Lower Upper

276 100

138 26.1 18.0 27.0

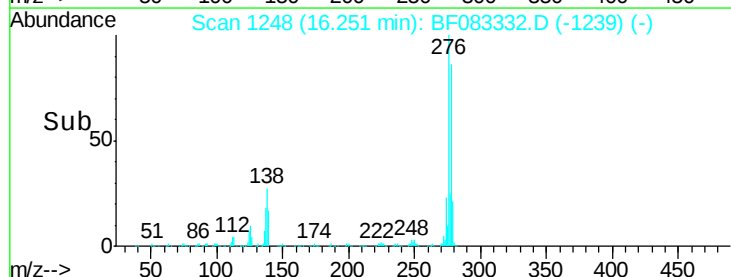
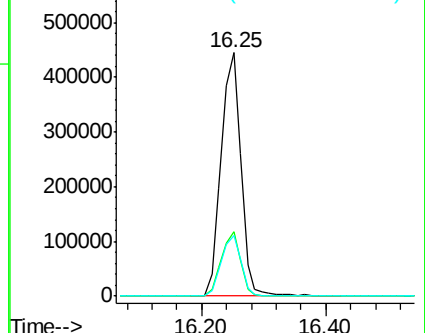
277 24.8 20.2 30.4

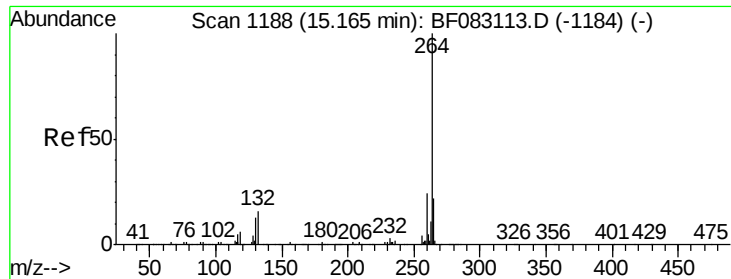


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

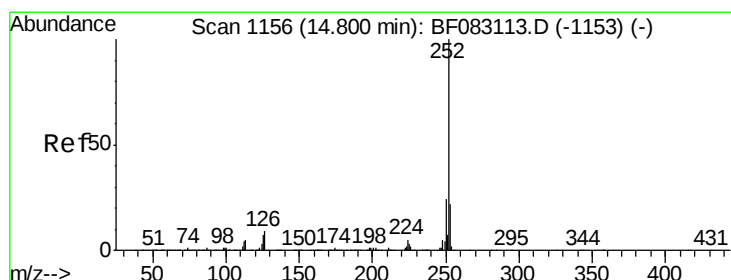
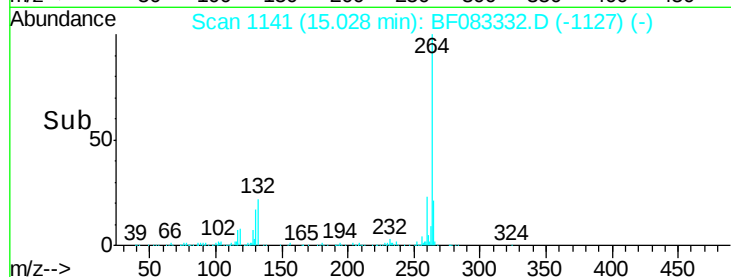
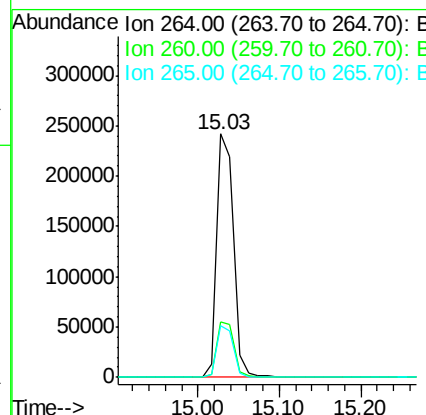
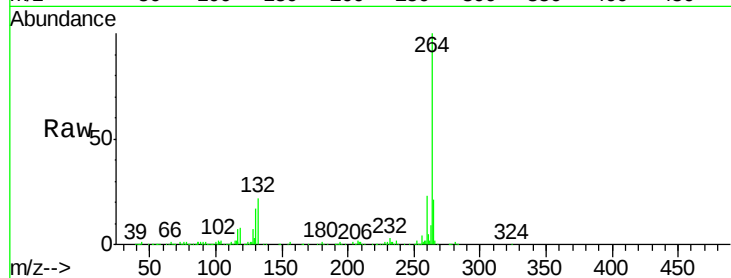




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.03 min Scan# 1141  
Delta R.T. -0.14 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

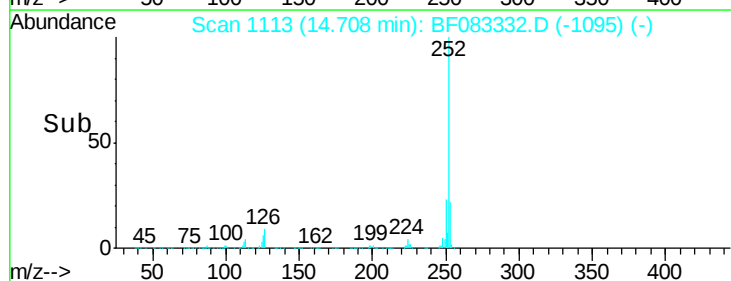
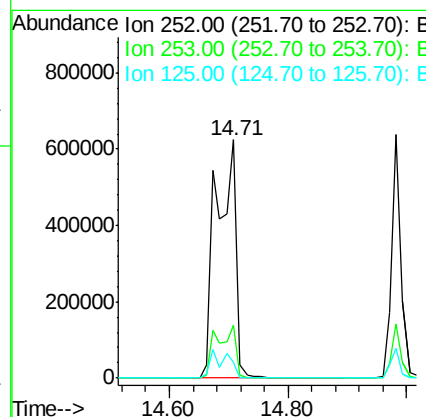
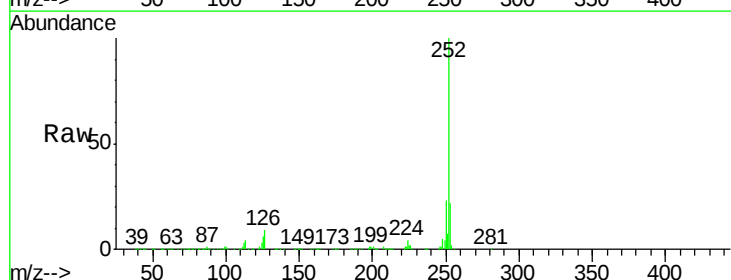
Instrument :  
BNA\_F  
ClientSampleId :

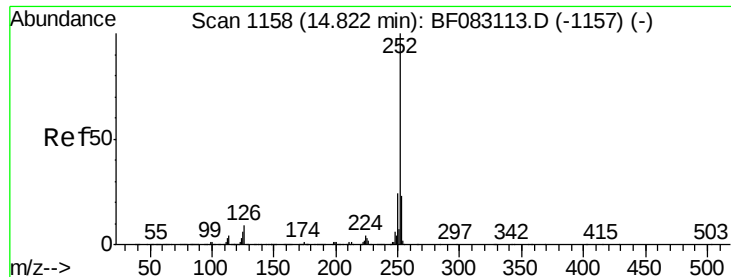
Tot Ion:264 Resp: 348074  
Ion Ratio Lower Upper  
264 100  
260 23.0 19.1 28.7  
265 21.1 18.2 27.4



#87  
Benzo(b)fluoranthene  
Concen: 61.03 ng  
RT: 14.71 min Scan# 1113  
Delta R.T. -0.09 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:252 Resp: 1451559  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.7 26.5  
125 6.4 5.6 8.4

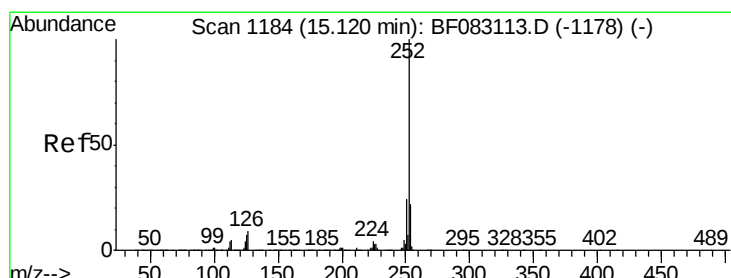
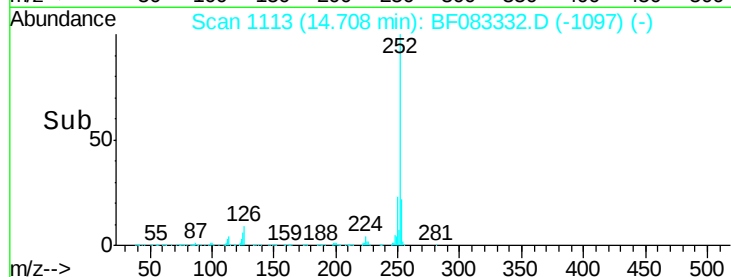
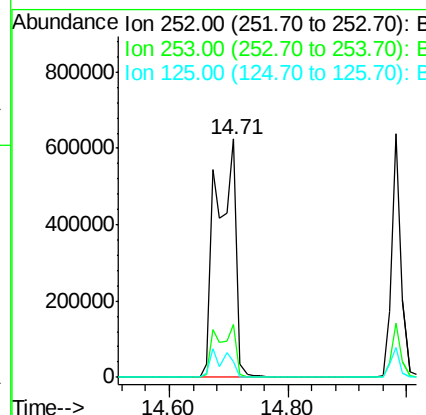
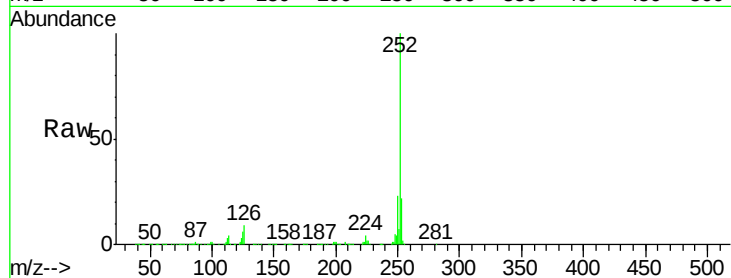




#88  
Benzo(k)fluoranthene  
Concen: 81.92 ng  
RT: 14.71 min Scan# 1113  
Delta R.T. -0.11 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

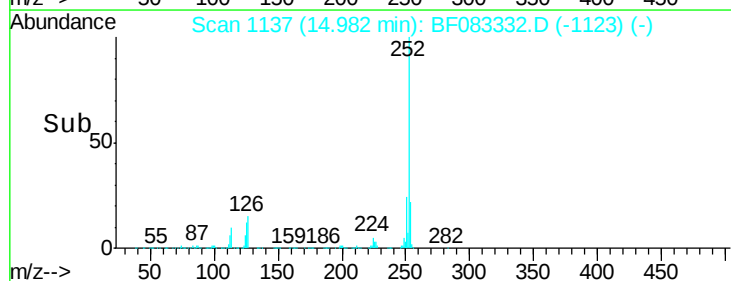
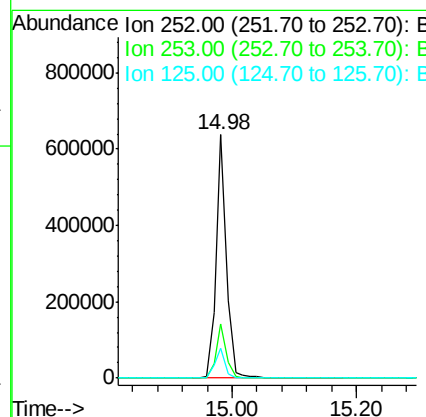
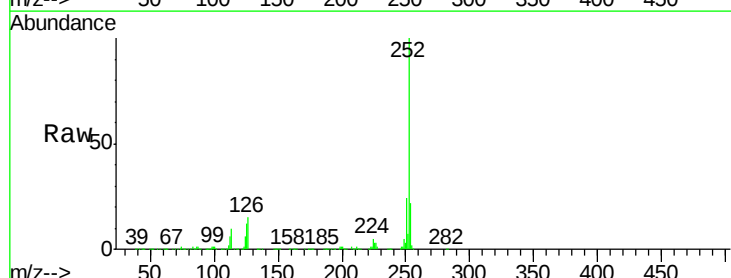
Instrument :  
BNA\_F  
ClientSampleId :

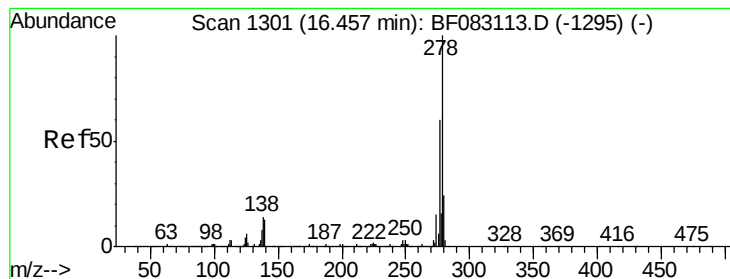
Tot Ion:252 Resp: 1451559  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.2 27.2  
125 6.4 6.8 10.2#



#89  
Benzo(a)pyrene  
Concen: 36.92 ng  
RT: 14.98 min Scan# 1137  
Delta R.T. -0.14 min  
Lab File: BF083332.D  
Acq: 27 Nov 2015 16:36

Tgt Ion:252 Resp: 725027  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.5 26.3  
125 12.1 5.4 8.0#





#90

Dibenzo(a,h)anthracene

Concen: 46.01 ng

RT: 16.26 min Scan# 1249

Delta R.T. -0.19 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

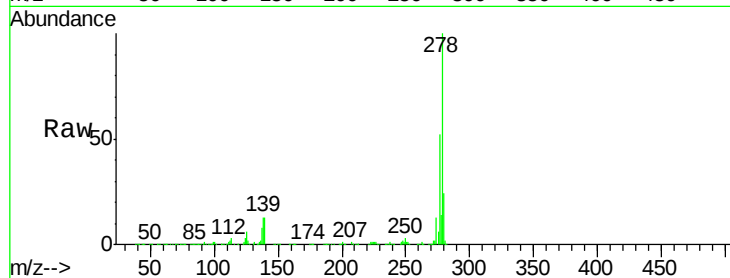
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:278 Resp: 820572

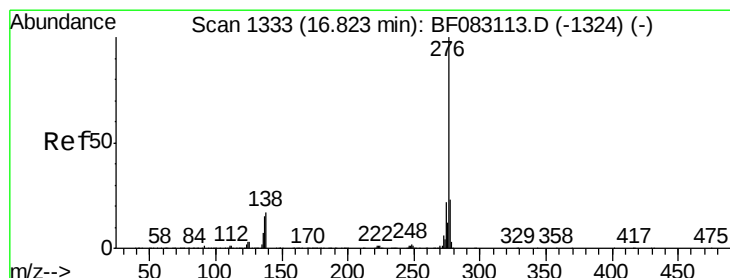
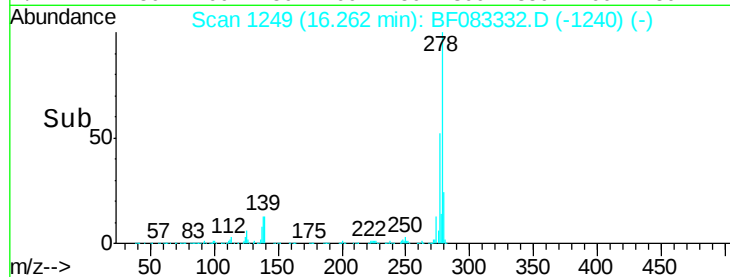
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 13.1  | 10.7  | 16.1  |
| 279 | 24.0  | 19.3  | 28.9  |



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: 47.72 ng

RT: 16.61 min Scan# 1279

Delta R.T. -0.22 min

Lab File: BF083332.D

Acq: 27 Nov 2015 16:36

Tgt Ion:276 Resp: 830820

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 23.9  | 18.7  | 28.1  |
| 138 | 23.5  | 13.9  | 20.9  |

