

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102116\  
 Data File : BF090715.D  
 Acq On : 21 Oct 2016 16:13  
 Operator : UM/SJ  
 Sample : PB94239BS  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

Quant Time: Oct 21 20:16:05 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 21 17:36:31 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 292350   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.14  | 136  | 1246526  | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 636664   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 955683   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.03 | 240  | 702364   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.46 | 264  | 466885   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.48  | 112 | 1766658 | 97.46  | ng | 0.02 |
| 7) Phenol-d6             | 6.50  | 99  | 2444234 | 99.55  | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.42  | 82  | 1556984 | 68.51  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.69 | 330 | 576634  | 114.43 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 2760795 | 67.32  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.97 | 244 | 2254891 | 73.58  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.65 | 88  | 270448  | 25.78 | ng | 85     |
| 3) Pyridine                    | 3.37 | 79  | 753581  | 30.66 | ng | # 77   |
| 4) n-Nitrosodimethylamine      | 3.32 | 42  | 289746  | 34.45 | ng | 84     |
| 6) Aniline                     | 6.52 | 93  | 699083  | 25.11 | ng | # 34   |
| 8) 2-Chlorophenol              | 6.65 | 128 | 766952  | 35.25 | ng | 90     |
| 9) Benzaldehyde                | 6.41 | 77  | 138907  | 10.35 | ng | # 75   |
| 10) Phenol                     | 6.51 | 94  | 831380  | 30.12 | ng | # 47   |
| 11) bis(2-Chloroethyl)ether    | 6.60 | 93  | 852620  | 36.77 | ng | 91     |
| 12) 1,3-Dichlorobenzene        | 6.79 | 146 | 729400  | 33.37 | ng | # 90   |
| 13) 1,4-Dichlorobenzene        | 6.87 | 146 | 809996  | 34.94 | ng | # 92   |
| 14) 1,2-Dichlorobenzene        | 7.02 | 146 | 747800  | 32.95 | ng | # 89   |
| 15) Benzyl Alcohol             | 7.00 | 79  | 604565  | 36.25 | ng | # 75   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.14 | 45  | 1101242 | 31.71 | ng | 75     |
| 17) 2-Methylphenol             | 7.13 | 107 | 599829  | 36.58 | ng | # 79   |
| 18) Hexachloroethane           | 7.37 | 117 | 305149  | 32.42 | ng | 91     |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70  | 579818  | 31.71 | ng | # 72   |
| 20) 3+4-Methylphenols          | 7.27 | 107 | 727317  | 37.42 | ng | # 66   |
| 22) Acetophenone               | 7.27 | 105 | 1020145 | 36.72 | ng | # 79   |
| 24) Nitrobenzene               | 7.45 | 77  | 842802  | 34.21 | ng | # 74   |
| 25) Isophorone                 | 7.69 | 82  | 1602641 | 37.25 | ng | # 89   |
| 26) 2-Nitrophenol              | 7.75 | 139 | 374607  | 37.22 | ng | # 45   |
| 27) 2,4-Dimethylphenol         | 7.80 | 122 | 652985  | 36.59 | ng | # 79   |
| 28) bis(2-Chloroethoxy)methane | 7.89 | 93  | 922254  | 39.18 | ng | # 93   |
| 29) 2,4-Dichlorophenol         | 8.01 | 162 | 585642  | 39.98 | ng | 95     |
| 30) 1,2,4-Trichlorobenzene     | 8.09 | 180 | 635909  | 36.89 | ng | 97     |
| 31) Naphthalene                | 8.17 | 128 | 2224151 | 36.48 | ng | 96     |
| 32) Benzoic acid               | 7.94 | 122 | 355788  | 31.38 | ng | # 61   |
| 33) 4-Chloroaniline            | 8.21 | 127 | 434391  | 19.21 | ng | # 84   |
| 34) Hexachlorobutadiene        | 8.28 | 225 | 334638  | 34.53 | ng | 98     |
| 35) Caprolactam                | 8.59 | 113 | 114090  | 27.27 | ng | # 69   |
| 36) 4-Chloro-3-methylphenol    | 8.70 | 107 | 618068  | 36.28 | ng | # 78   |
| 37) 2-Methylnaphthalene        | 8.85 | 142 | 1368353 | 38.40 | ng | # 90   |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.02 | 216 | 591919  | 34.43 | ng | # 97   |
| 40) Hexachlorocyclopentadiene  | 9.01 | 237 | 732375  | 90.75 | ng | 96     |

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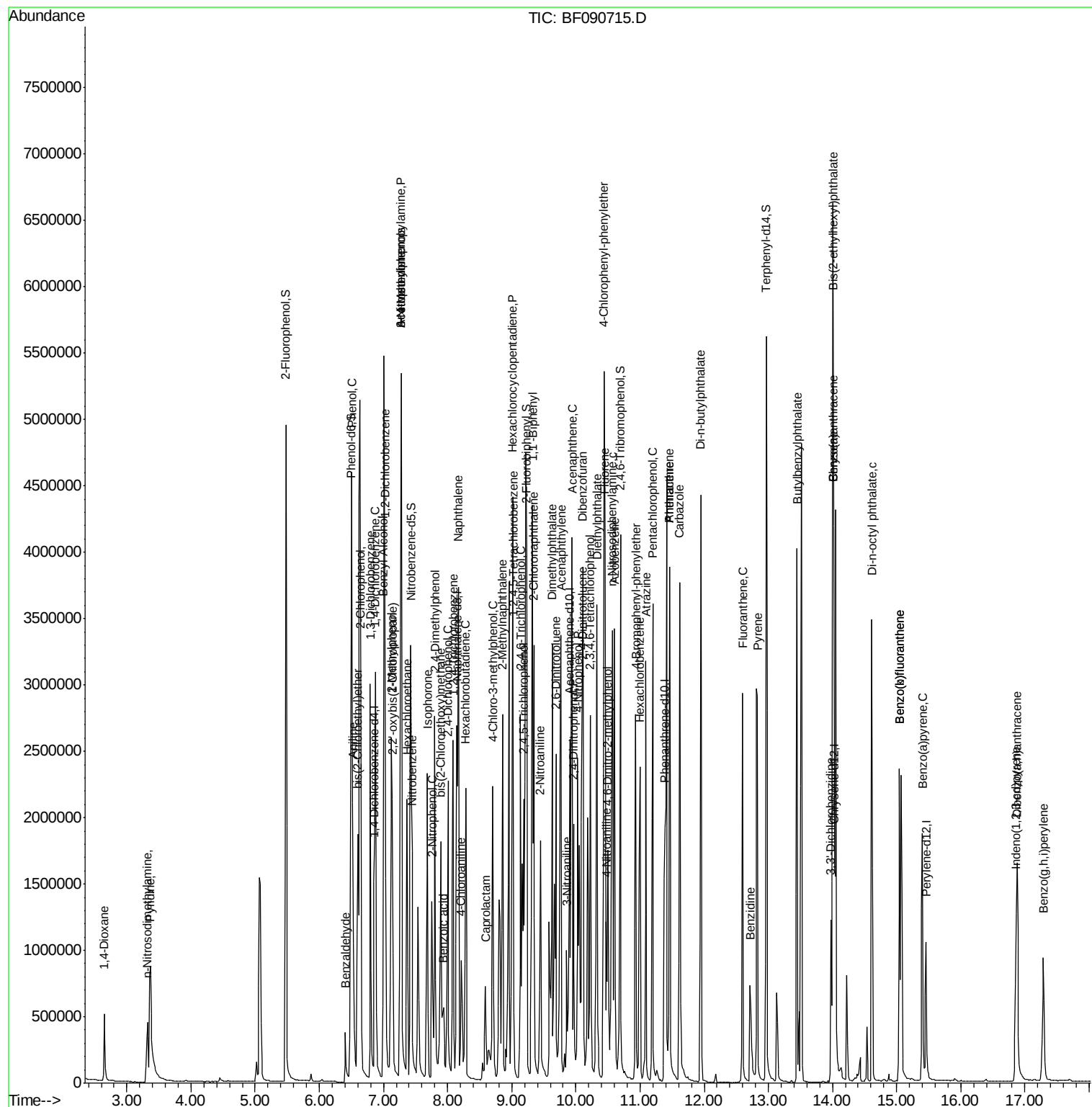
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.14  | 196  | 424706   | 39.84 | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.18  | 196  | 376130   | 34.77 | nq    | # 92     |
| 45) 1,1'-Biphenyl              | 9.32  | 154  | 1583705  | 31.68 | nq    | 90       |
| 46) 2-Chloronaphthalene        | 9.34  | 162  | 1264797  | 34.03 | nq    | # 88     |
| 47) 2-Nitroaniline             | 9.45  | 65   | 454914   | 36.88 | nq    | # 76     |
| 48) Acenaphthylene             | 9.77  | 152  | 2032911  | 35.85 | nq    | 96       |
| 49) Dimethylphthalate          | 9.63  | 163  | 1487674  | 37.19 | nq    | # 97     |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 307836   | 35.78 | nq    | # 51     |
| 51) Acenaphthene               | 9.94  | 154  | 1438765  | 38.22 | nq    | 89       |
| 52) 3-Nitroaniline             | 9.86  | 138  | 214765   | 21.72 | nq    | # 66     |
| 53) 2,4-Dinitrophenol          | 9.96  | 184  | 328951   | 70.86 | nq    | # 33     |
| 54) Dibenzofuran               | 10.11 | 168  | 1814618  | 39.79 | nq    | # 86     |
| 55) 4-Nitrophenol              | 10.03 | 139  | 467075   | 77.11 | nq    | # 46     |
| 56) 2,4-Dinitrotoluene         | 10.10 | 165  | 448449   | 42.65 | nq    | # 96     |
| 57) Fluorene                   | 10.45 | 166  | 1434330  | 37.96 | nq    | 92       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.22 | 232  | 335261   | 39.49 | nq    | 92       |
| 59) Diethylphthalate           | 10.33 | 149  | 1475902  | 35.57 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.44 | 204  | 668252   | 38.69 | nq    | # 89     |
| 61) 4-Nitroaniline             | 10.47 | 138  | 332740   | 33.22 | nq    | # 43     |
| 62) Azobenzene                 | 10.60 | 77   | 1783466  | 36.71 | nq    | 86       |
| 64) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 199406   | 34.02 | nq    | 77       |
| 65) n-Nitrosodiphenylamine     | 10.57 | 169  | 1204582  | 39.34 | nq    | 90       |
| 66) 4-Bromophenyl-phenylether  | 10.93 | 248  | 392122   | 42.32 | nq    | 98       |
| 67) Hexachlorobenzene          | 11.00 | 284  | 446001   | 40.79 | nq    | # 81     |
| 68) Atrazine                   | 11.09 | 200  | 369805   | 43.76 | nq    | 84       |
| 69) Pentachlorophenol          | 11.19 | 266  | 505197   | 75.01 | nq    | 97       |
| 70) Phenanthrene               | 11.46 | 178  | 1839719  | 37.77 | nq    | 95       |
| 71) Anthracene                 | 11.46 | 178  | 1852356  | 34.29 | nq    | 95       |
| 72) Carbazole                  | 11.62 | 167  | 1739890  | 38.52 | nq    | # 93     |
| 73) Di-n-butylphthalate        | 11.95 | 149  | 2208987  | 37.70 | nq    | # 96     |
| 74) Fluoranthene               | 12.60 | 202  | 1845517  | 39.16 | nq    | 88       |
| 76) Benzidine                  | 12.72 | 184  | 560819   | 35.96 | nq    | 98       |
| 77) Pyrene                     | 12.83 | 202  | 1815118  | 37.00 | nq    | 95       |
| 79) Butylbenzylphthalate       | 13.45 | 149  | 973914   | 43.19 | nq    | 91       |
| 80) Benzo(a)anthracene         | 14.02 | 228  | 1503047  | 39.10 | nq    | 96       |
| 81) 3,3'-Dichlorobenzidine     | 13.97 | 252  | 304917   | 22.89 | nq    | 99       |
| 82) Chrysene                   | 14.02 | 228  | 1503047  | 40.07 | nq    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 14.01 | 149  | 1214869  | 37.66 | nq    | # 96     |
| 84) Di-n-octyl phthalate       | 14.61 | 149  | 1875714  | 38.31 | nq    | # 93     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.86 | 276  | 922690   | 28.19 | nq    | # 94     |
| 87) Benzo(b)fluoranthene       | 15.05 | 252  | 1130313  | 39.37 | nq    | # 89     |
| 88) Benzo(k)fluoranthene       | 15.05 | 252  | 1130313  | 39.18 | nq    | # 90     |
| 89) Benzo(a)pyrene             | 15.40 | 252  | 1006121  | 37.35 | nq    | # 88     |
| 90) Dibenzo(a,h)anthracene     | 16.88 | 278  | 798454   | 30.87 | nq    | # 88     |
| 91) Benzo(g,h,i)perylene       | 17.29 | 276  | 729612   | 29.09 | nq    | # 84     |

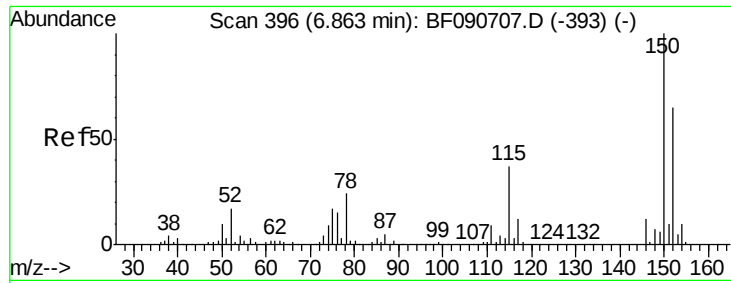
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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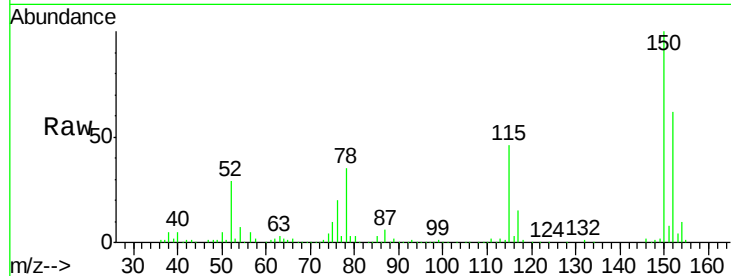


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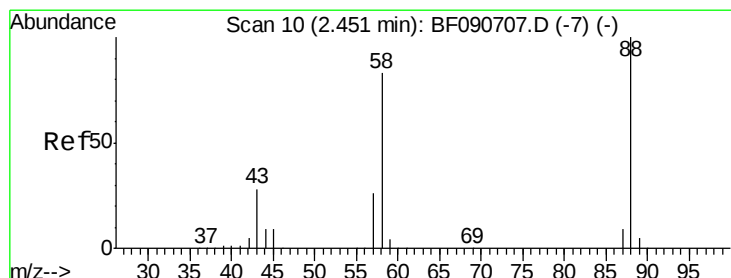
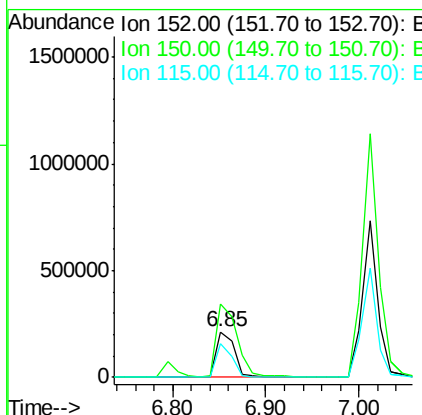
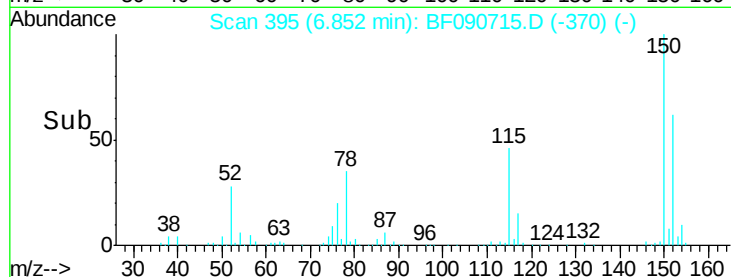
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 395  
Delta R.T. -0.01 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

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Tot Ion:152 Resp: 292350  
Ion Ratio Lower Upper  
152 100  
150 161.0 124.7 187.1  
115 73.6 39.0 58.4#



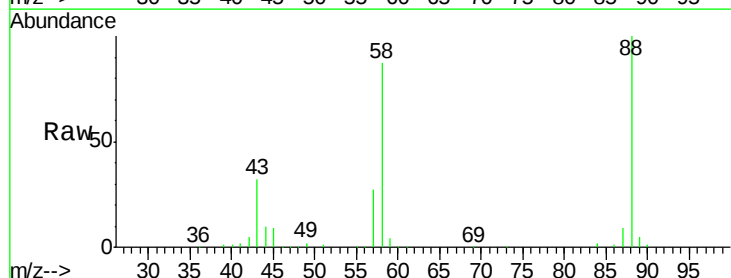
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



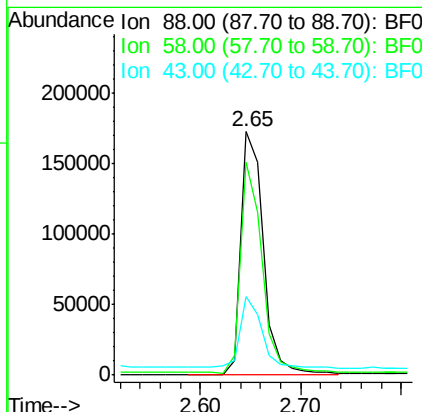
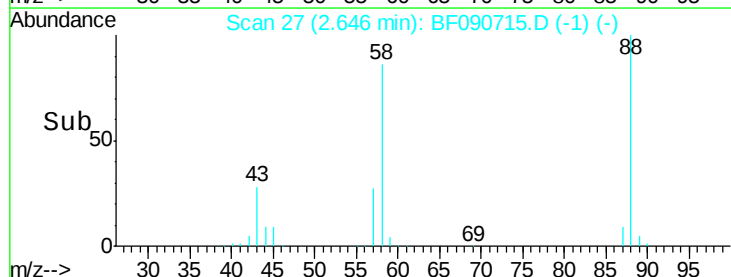
#2

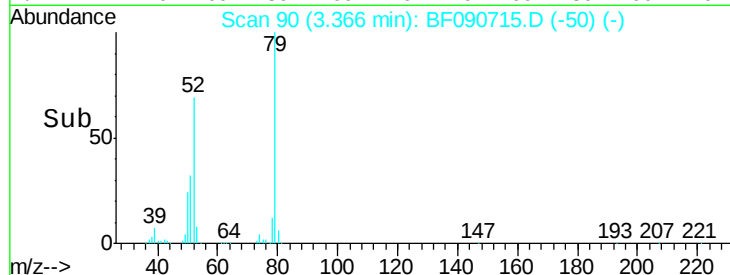
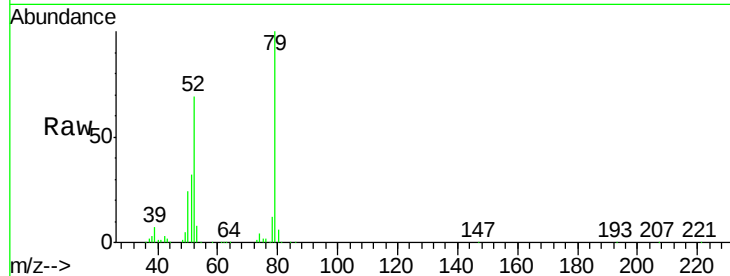
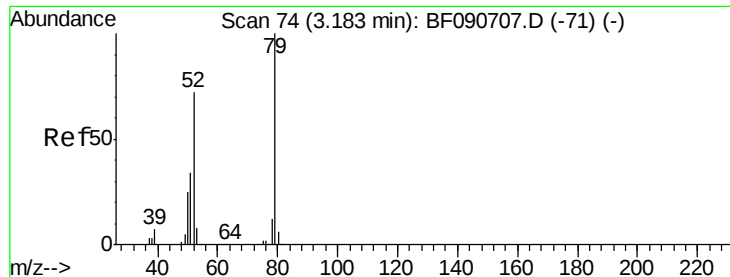
1,4-Dioxane  
Concen: 25.78 ng  
RT: 2.65 min Scan# 27  
Delta R.T. 0.16 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion: 88 Resp: 270448  
Ion Ratio Lower Upper  
88 100  
58 80.9 77.7 116.5  
43 27.4 26.6 40.0



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

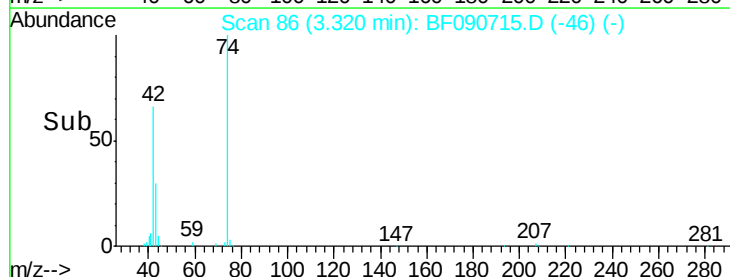
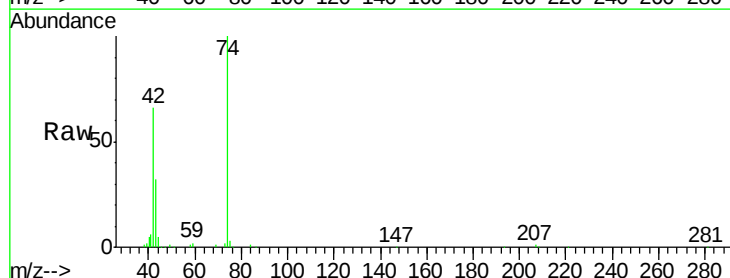
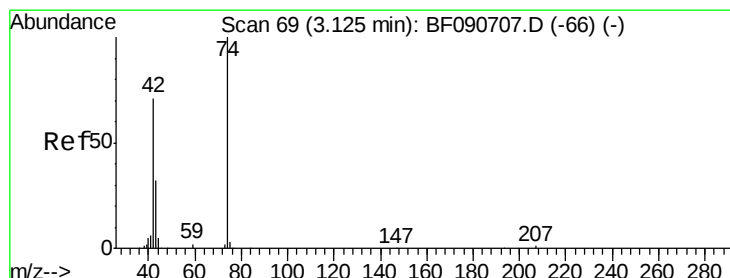
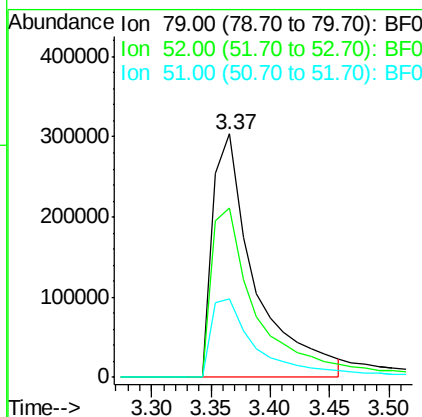




#3  
 Pvrindine  
 Concen: 30.66 ng  
 RT: 3.37 min Scan# 90  
 Delta R.T. 0.16 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

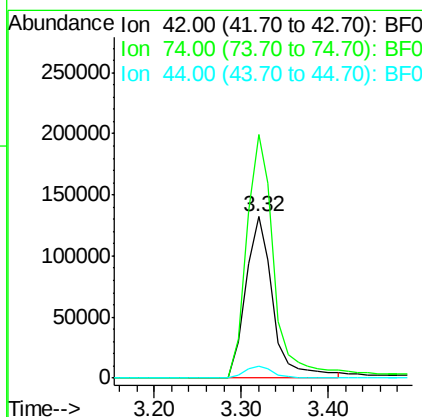
Instrument :  
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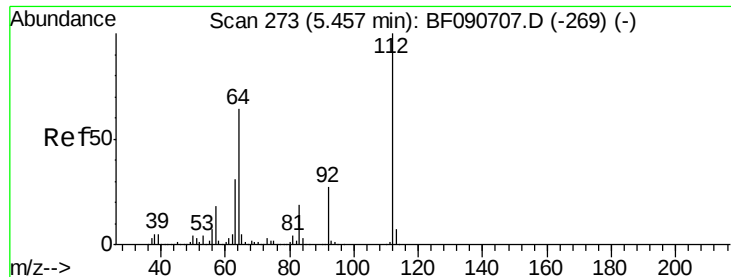
Tot Ion: 79 Resp: 753581  
 Ion Ratio Lower Upper  
 79 100  
 52 69.4 76.8 115.2#  
 51 32.5 32.2 48.4



#4  
 n-Nitrosodimethylamine  
 Concen: 34.45 ng  
 RT: 3.32 min Scan# 86  
 Delta R.T. 0.16 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Tgt Ion: 42 Resp: 289746  
 Ion Ratio Lower Upper  
 42 100  
 74 150.8 105.0 157.6  
 44 7.2 6.6 10.0





#5

2-Fluorophenol

Concen: 97.46 ng

RT: 5.48 min Scan# 275

Delta R.T. 0.02 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

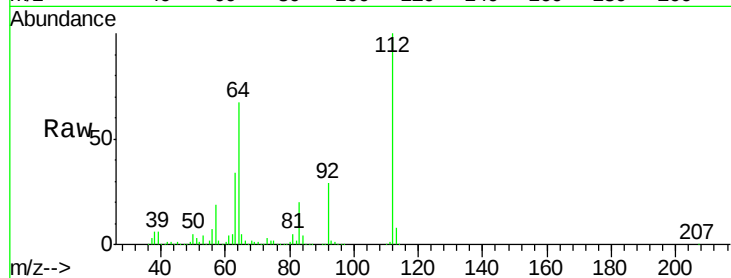
Tot Ion:112 Resp: 1766658

Ion Ratio Lower Upper

112 100

64 67.0 39.7 59.5#

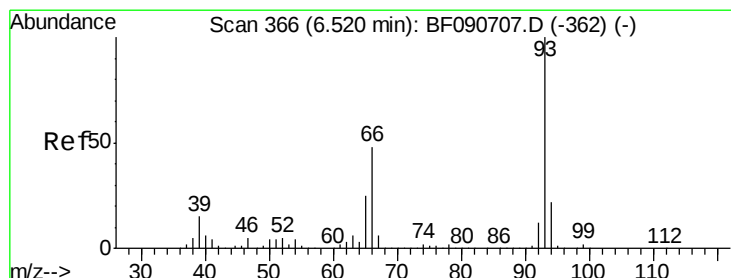
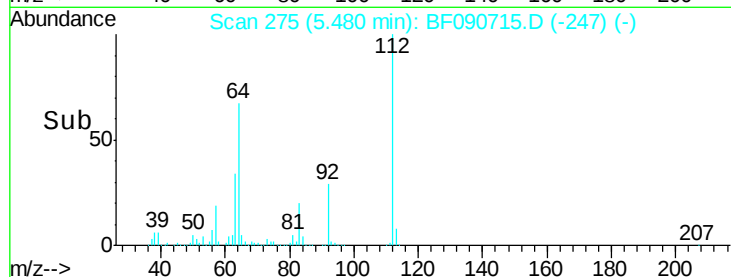
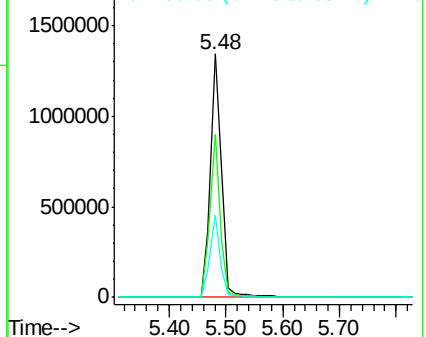
63 33.7 17.4 26.0#



Abundance Ion 112.00 (111.70 to 112.70): BF0

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 25.11 ng

RT: 6.52 min Scan# 366

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

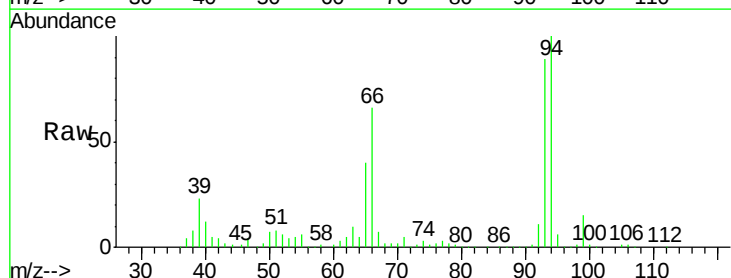
Tgt Ion: 93 Resp: 699083

Ion Ratio Lower Upper

93 100

66 73.7 27.2 40.8#

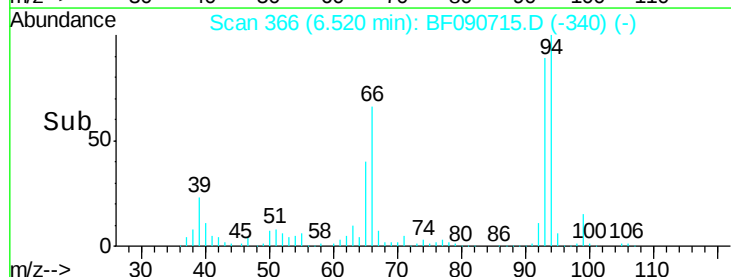
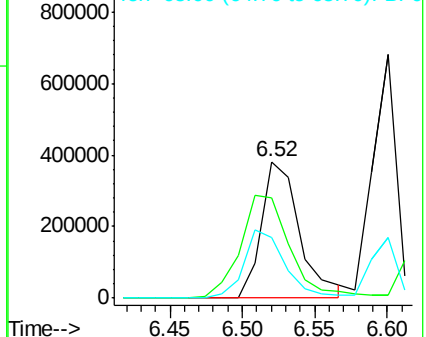
65 44.7 14.7 22.1#

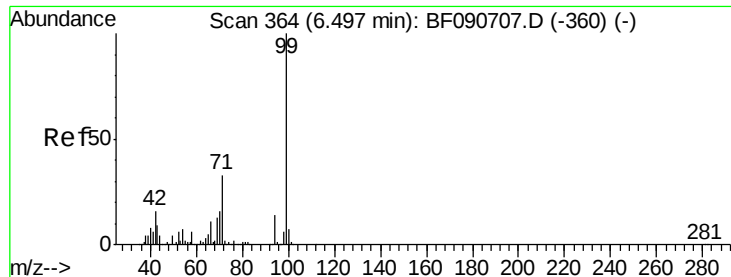


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 99.55 ng

RT: 6.50 min Scan# 364

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

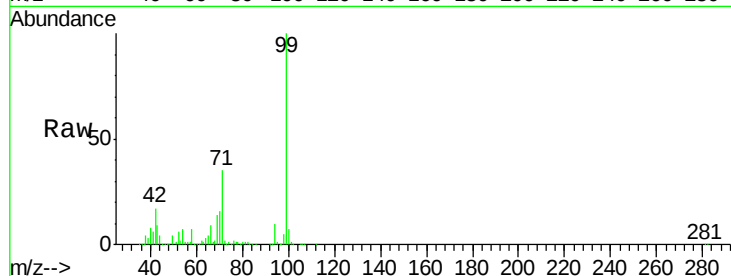
Tot Ion: 99 Resp: 2444234

Ion Ratio Lower Upper

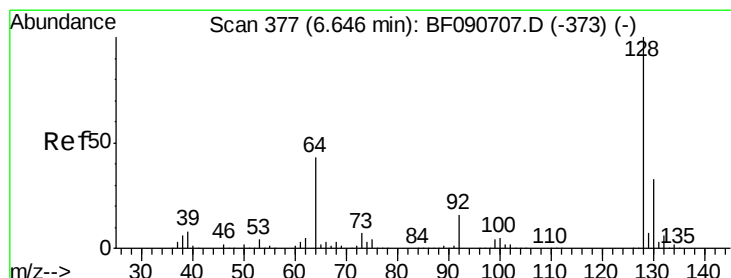
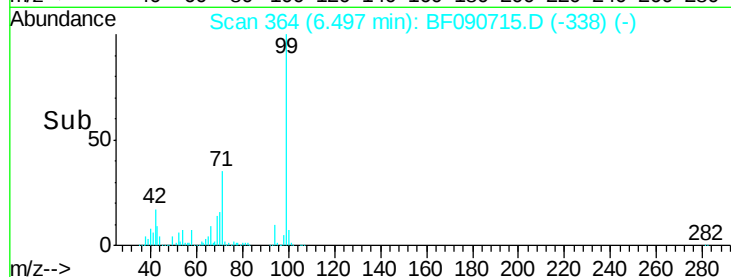
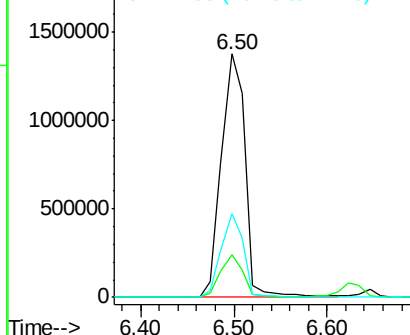
99 100

42 17.4 13.7 20.5

71 34.5 14.2 21.2#



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: 35.25 ng

RT: 6.65 min Scan# 377

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

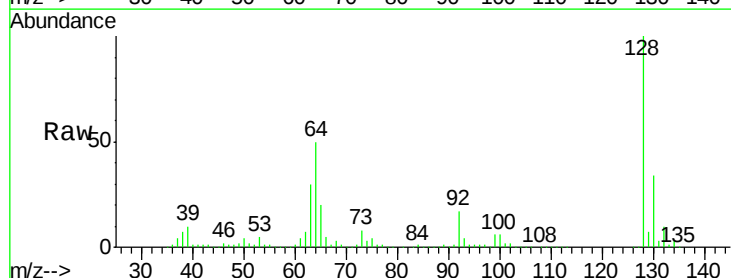
Tgt Ion:128 Resp: 766952

Ion Ratio Lower Upper

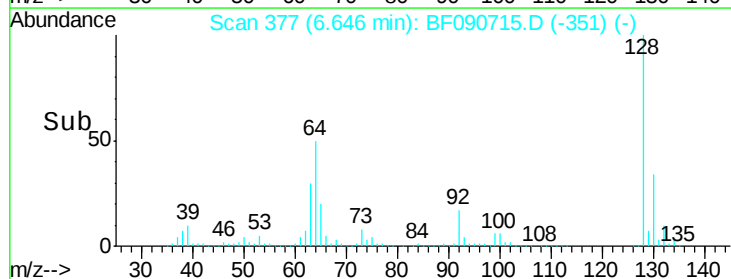
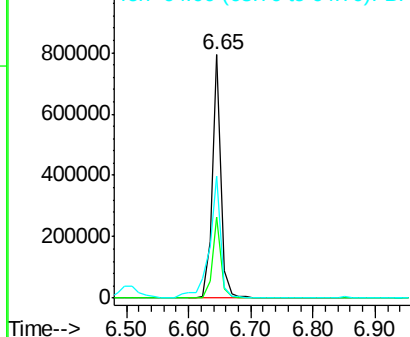
128 100

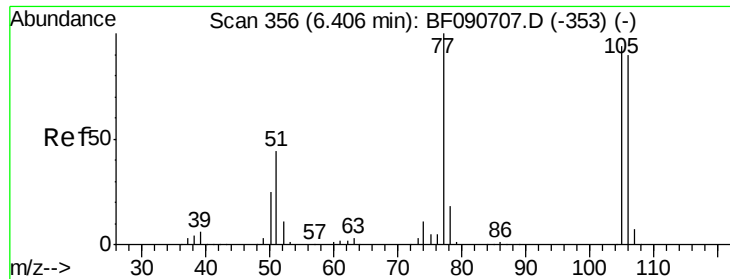
130 33.5 12.2 52.2

64 50.3 20.5 60.5



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 10.35 ng

RT: 6.41 min Scan# 356

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampled :

PB94239BS

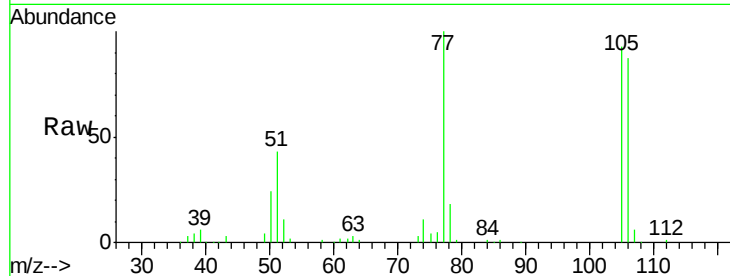
Tot Ion: 77 Resp: 138907

Ion Ratio Lower Upper

77 100

105 93.3 91.6 131.6

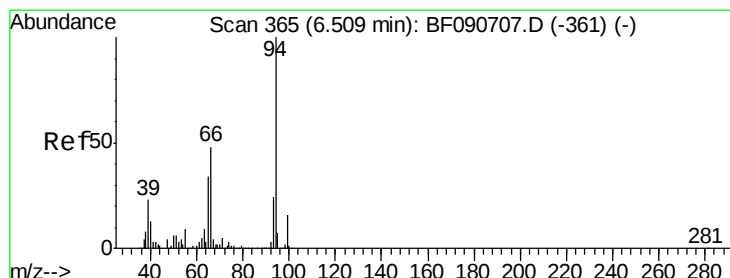
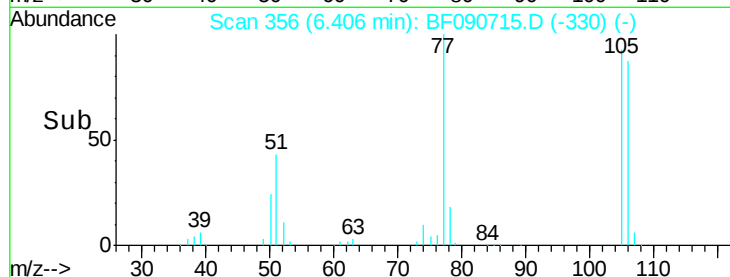
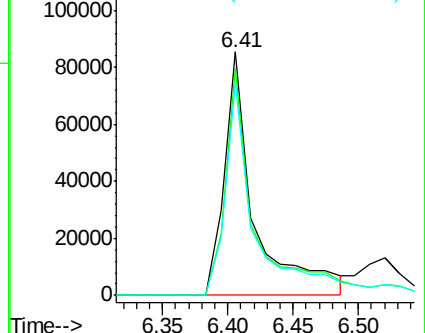
106 87.5 102.6 142.6#



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 30.12 ng

RT: 6.51 min Scan# 365

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

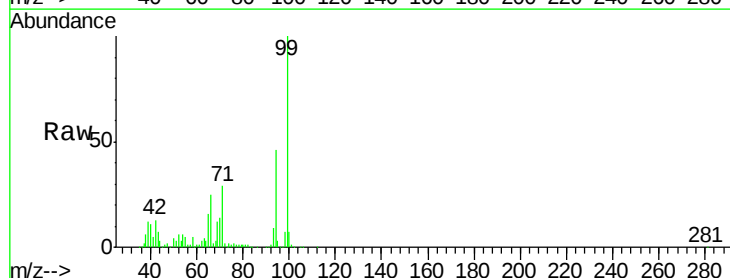
Tgt Ion: 94 Resp: 831380

Ion Ratio Lower Upper

94 100

65 36.1 0.7 40.7

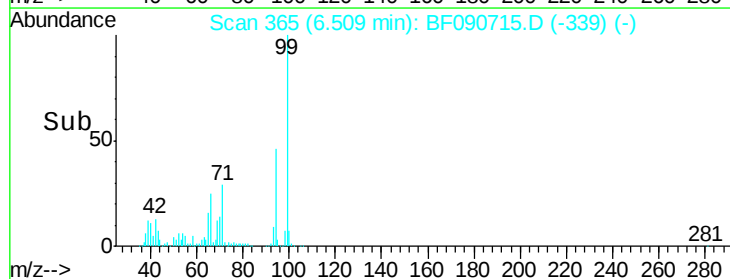
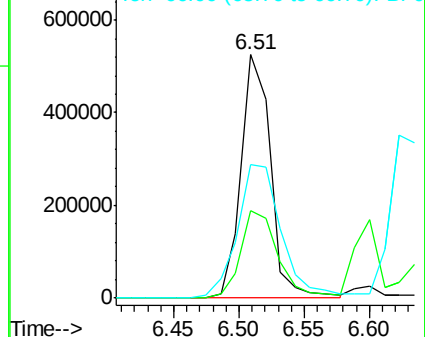
66 54.7 0.8 40.8#

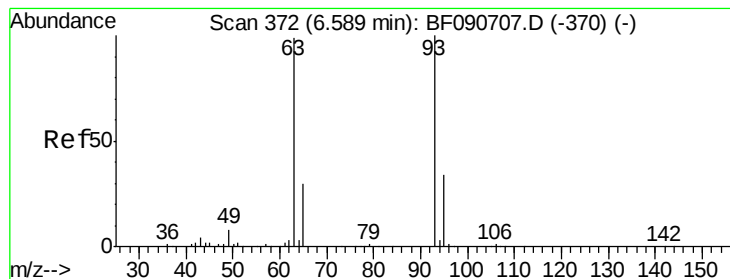


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 36.77 ng

RT: 6.60 min Scan# 373

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

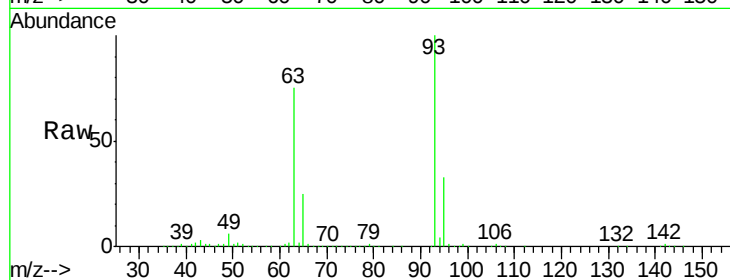
Tot Ion: 93 Resp: 852620

Ion Ratio Lower Upper

93 100

63 75.0 65.6 105.6

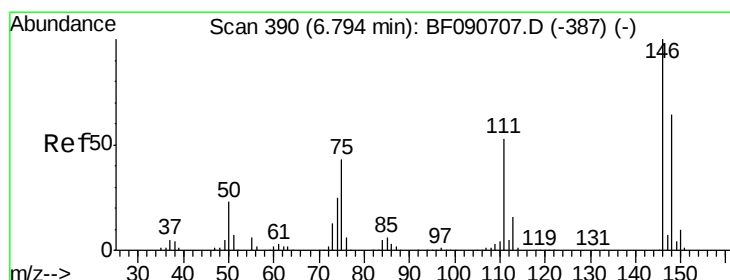
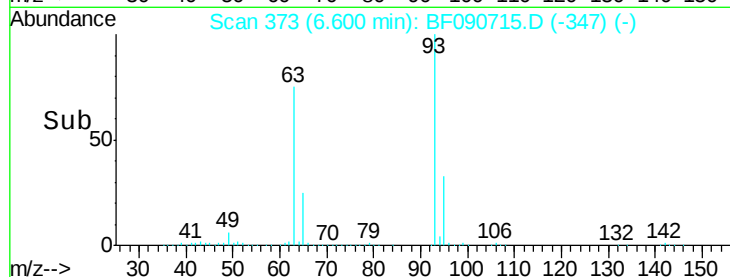
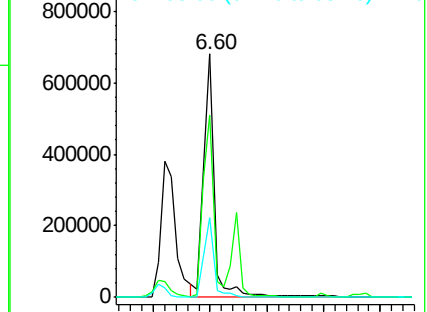
95 32.6 13.6 53.6



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0



#12

1,3-Dichlorobenzene

Concen: 33.37 ng

RT: 6.79 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

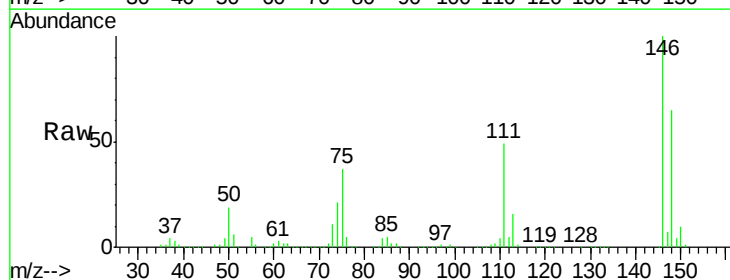
Tgt Ion: 146 Resp: 729400

Ion Ratio Lower Upper

146 100

148 64.9 51.0 76.4

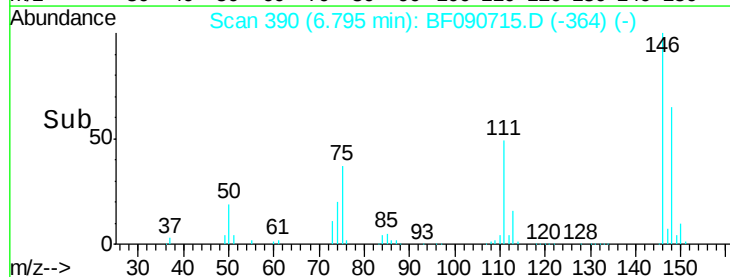
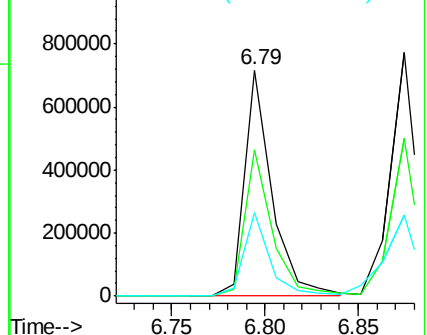
75 37.2 15.0 22.6#

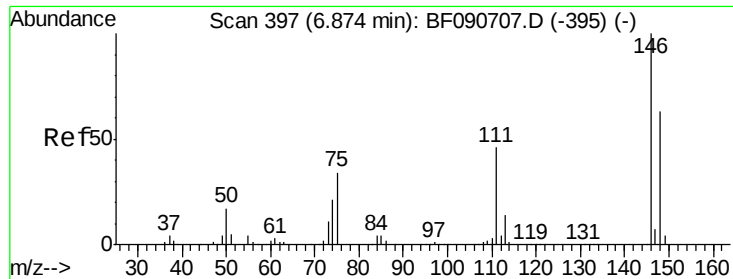


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0

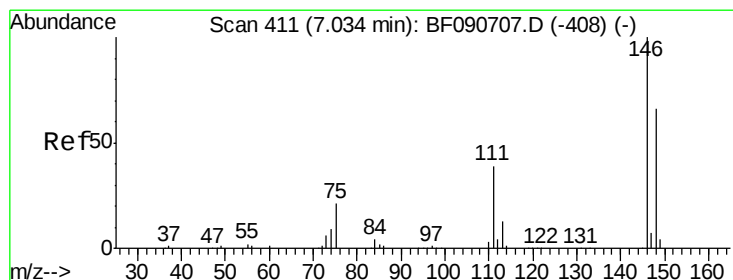
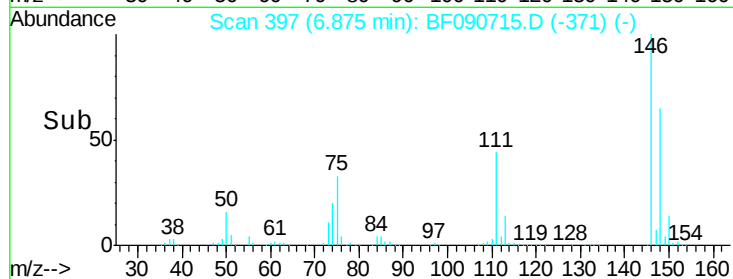
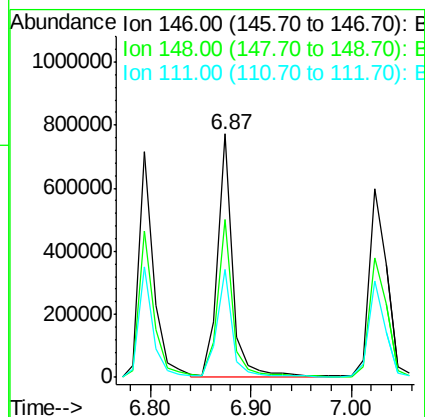
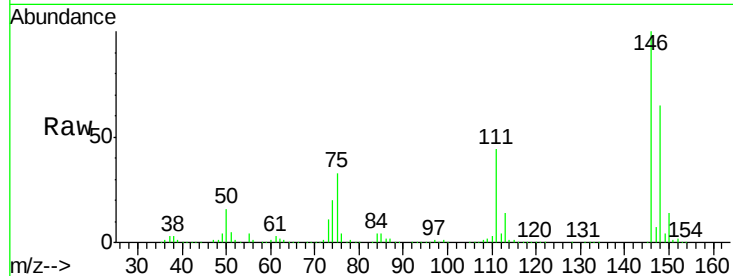




#13  
 1,4-Dichlorobenzene  
 Concen: 34.94 ng  
 RT: 6.87 min Scan# 397  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

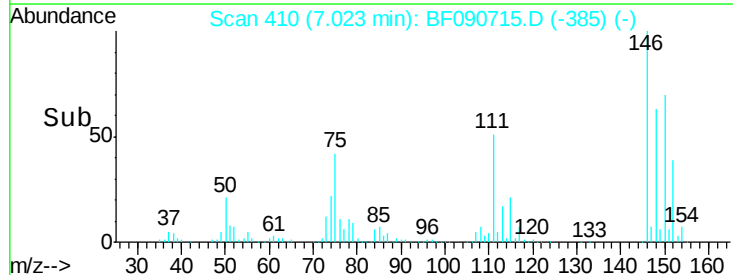
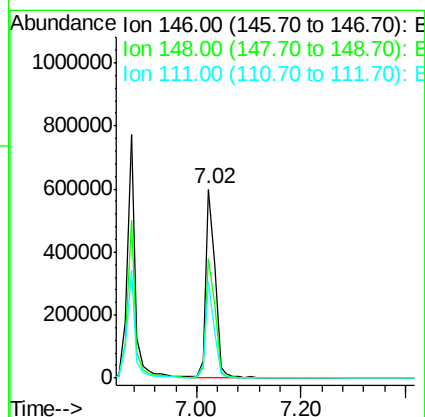
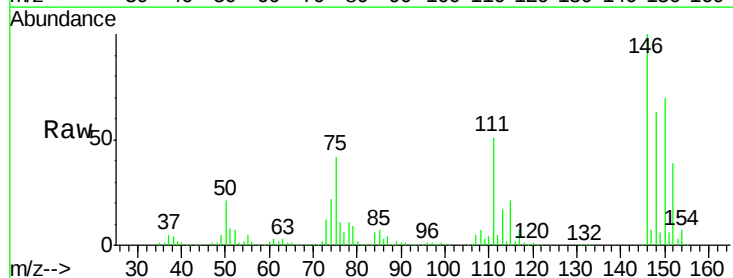
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

Tot Ion:146 Resp: 809996  
 Ion Ratio Lower Upper  
 146 100  
 148 64.6 51.8 77.6  
 111 44.4 24.9 37.3#



#14  
 1,2-Dichlorobenzene  
 Concen: 32.95 ng  
 RT: 7.02 min Scan# 410  
 Delta R.T. -0.01 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Tgt Ion:146 Resp: 747800  
 Ion Ratio Lower Upper  
 146 100  
 148 63.0 52.7 79.1  
 111 51.2 28.8 43.2#





#15

Benzyl Alcohol

Concen: 36.25 ng

RT: 7.00 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampled :

PB94239BS

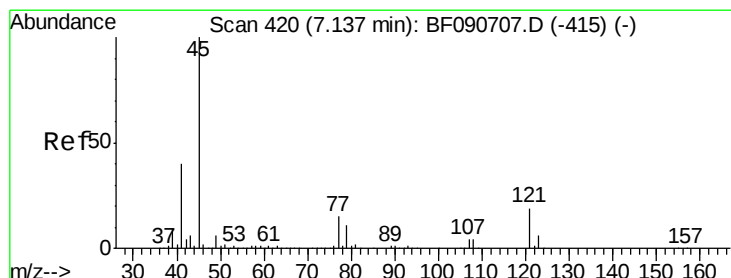
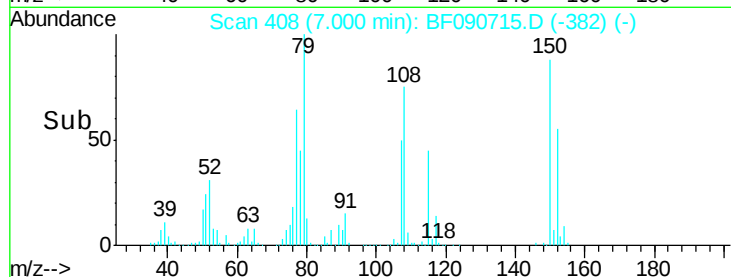
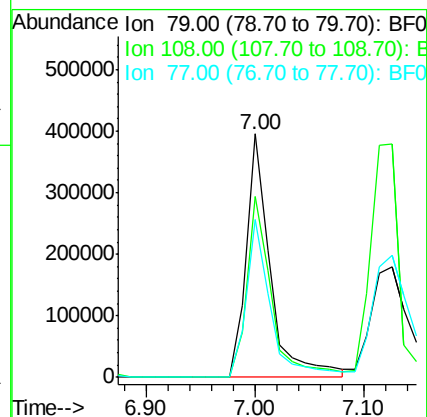
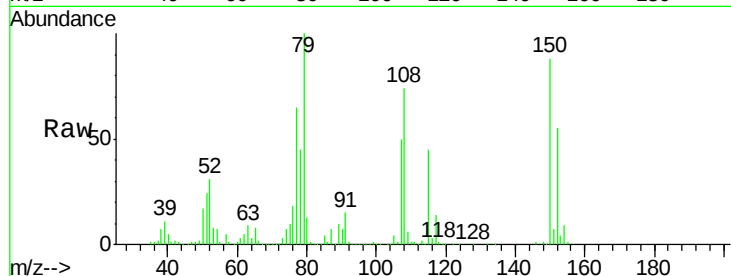
Tot Ion: 79 Resp: 604565

Ion Ratio Lower Upper

79 100

108 74.5 88.6 132.8#

77 64.6 47.0 70.4



#16

2,2'-oxybis(1-Chloropropane)

Concen: 31.71 ng

RT: 7.14 min Scan# 420

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

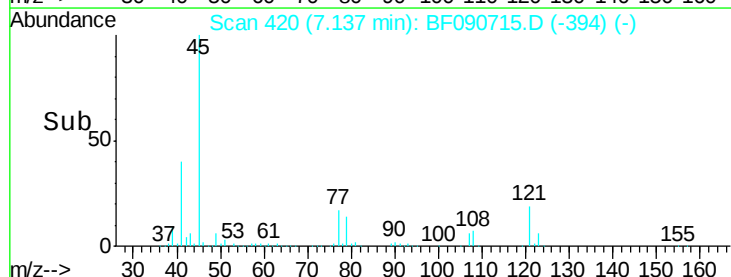
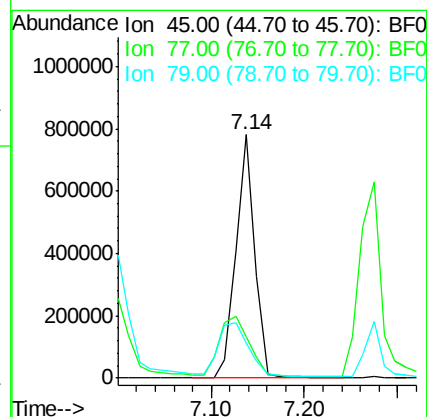
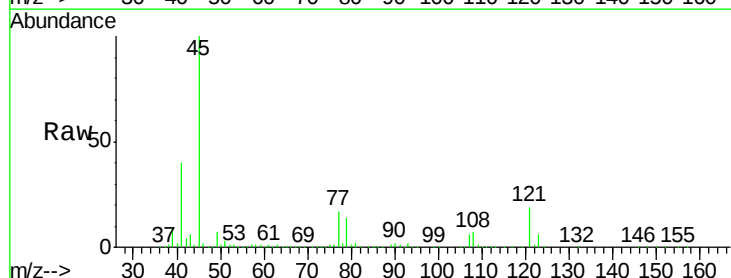
Tgt Ion: 45 Resp: 1101242

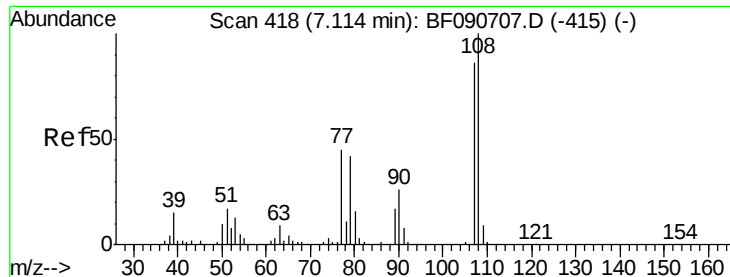
Ion Ratio Lower Upper

45 100

77 17.1 0.0 28.1

79 14.2 0.0 26.0





#17

2-Methylphenol

Concen: 36.58 ng

RT: 7.13 min Scan# 419

Delta R.T. 0.01 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

Tot Ion:107 Resp: 599829

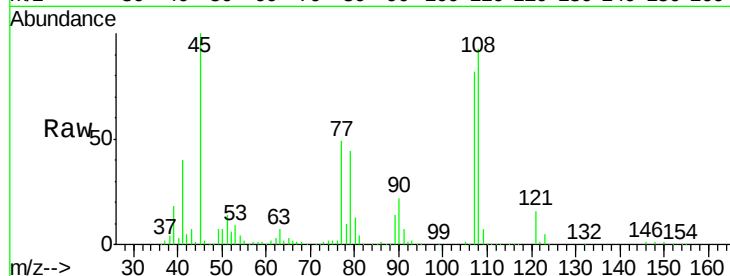
Ion Ratio Lower Upper

107 100

108 114.5 96.6 145.0

77 59.9 23.3 34.9#

79 54.2 22.0 33.0#

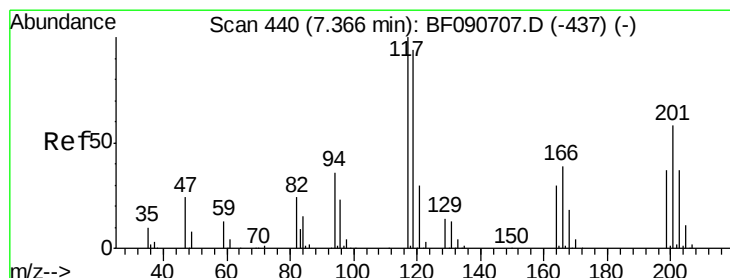
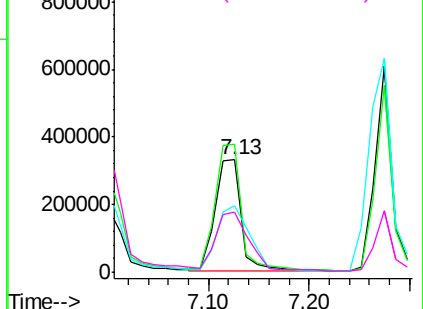
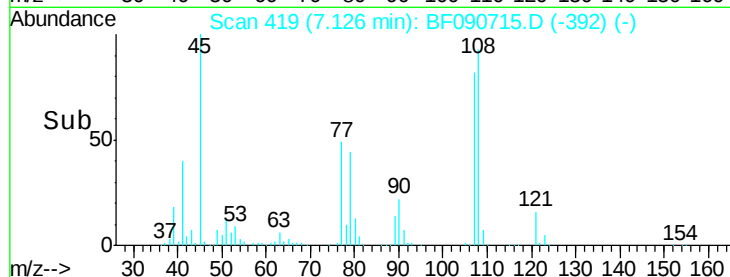


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18

Hexachloroethane

Concen: 32.42 ng

RT: 7.37 min Scan# 440

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

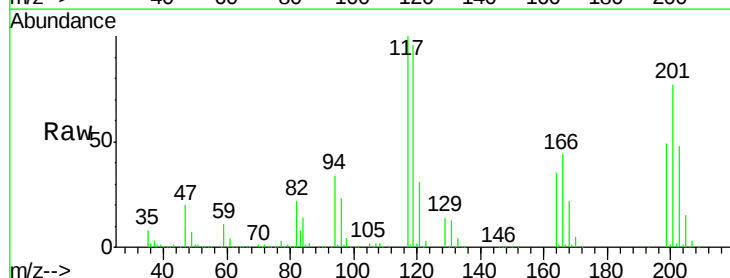
Tgt Ion:117 Resp: 305149

Ion Ratio Lower Upper

117 100

119 95.9 83.8 125.6

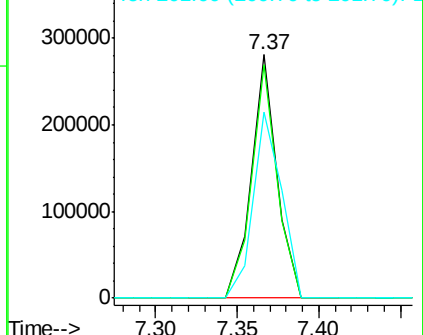
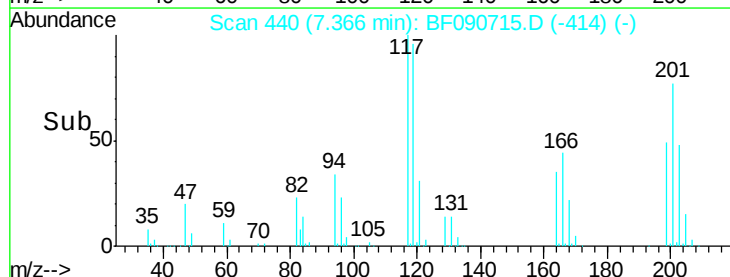
201 76.6 55.1 82.7

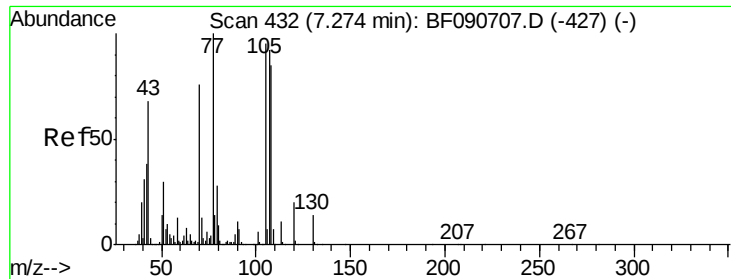


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

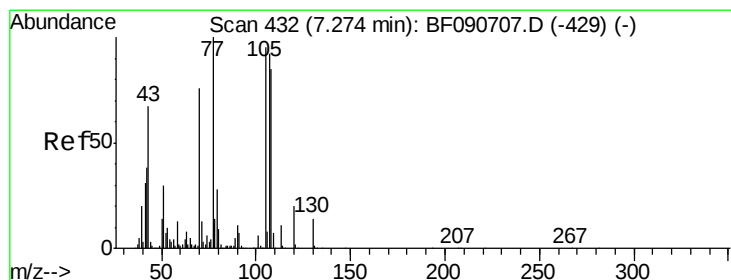
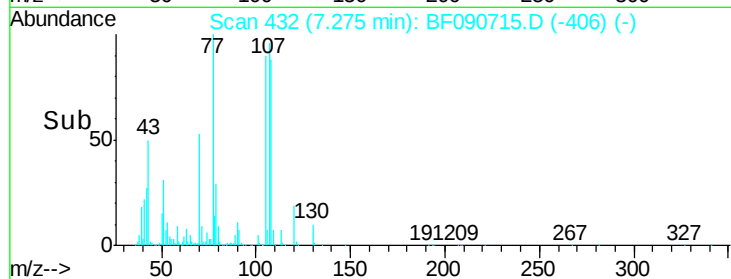
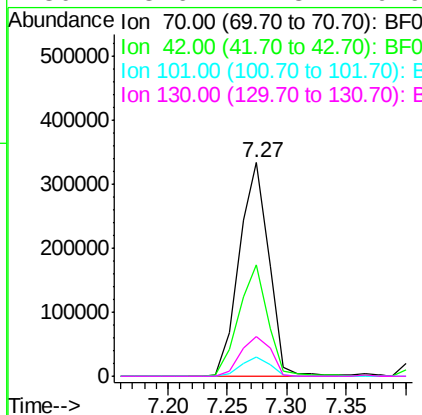
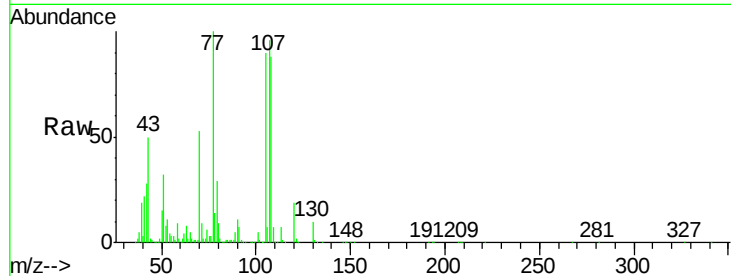




#19  
n-Nitroso-di-n-propylamine  
Concen: 31.71 ng  
RT: 7.27 min Scan# 432  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

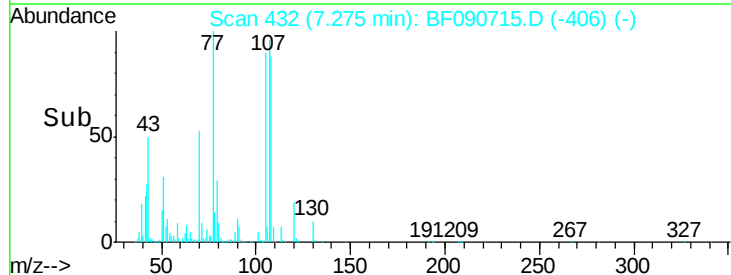
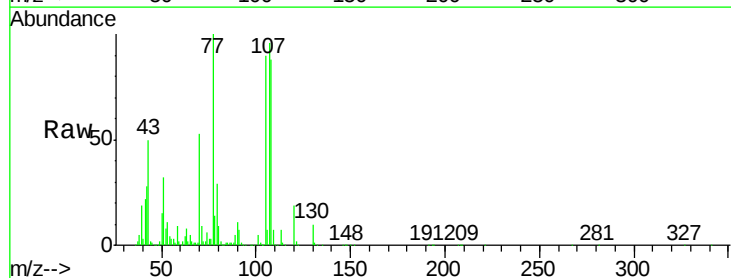
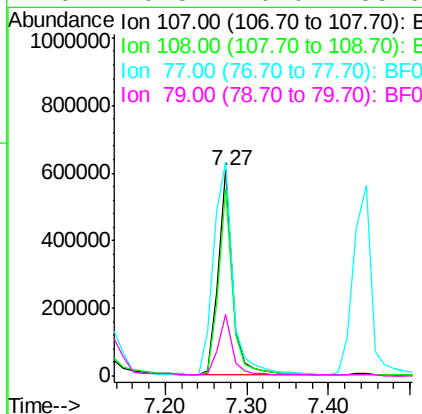
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

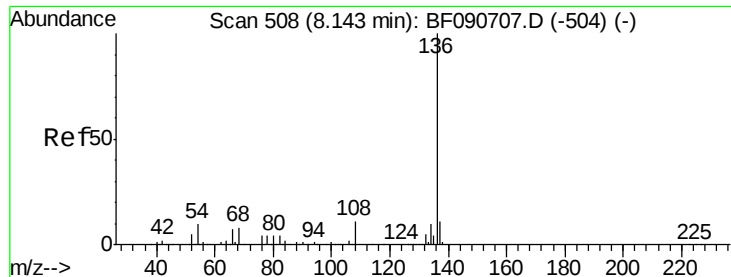
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 52.1  | 63.8  | 95.6# |
| 101     | 9.1   | 9.2   | 13.8# |
| 130     | 18.6  | 27.3  | 40.9# |



#20  
3+4-Methylphenols  
Concen: 37.42 ng  
RT: 7.27 min Scan# 432  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 91.0  | 74.6  | 114.6 |
| 77      | 103.8 | 0.7   | 40.7# |
| 79      | 29.8  | 0.0   | 38.9  |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 508

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

Tot Ion:136 Resp: 1246526

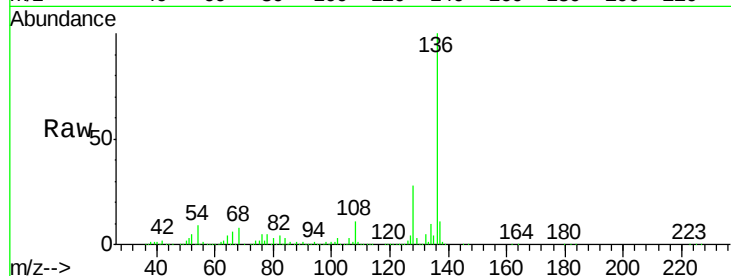
Ion Ratio Lower Upper

136 100

137 11.4 9.0 13.6

54 9.0 8.2 12.2

68 7.9 5.8 8.6

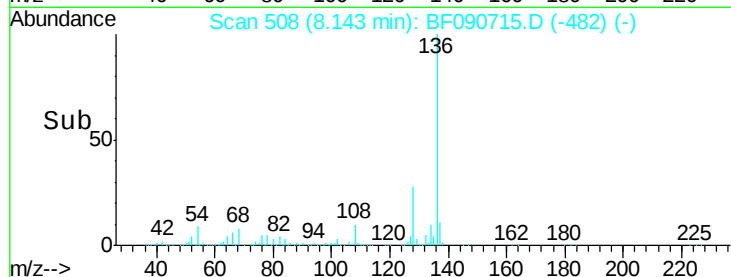


Abundance Ion 136.00 (135.70 to 136.70): E

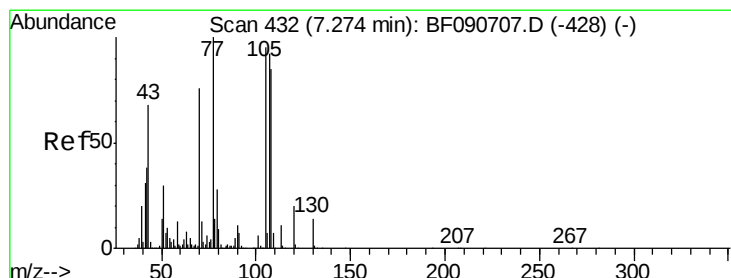
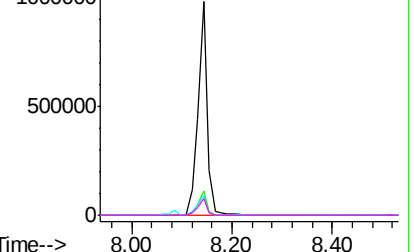
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#22

Acetophenone

Concen: 36.72 ng

RT: 7.27 min Scan# 432

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Tgt Ion:105 Resp: 1020145

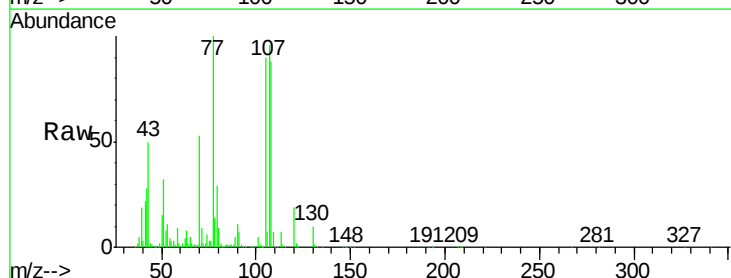
Ion Ratio Lower Upper

105 100

71 10.1 4.7 7.1#

51 34.9 22.0 33.0#

120 21.6 30.1 45.1#

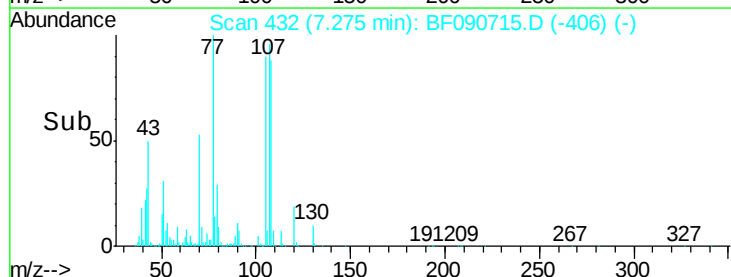


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

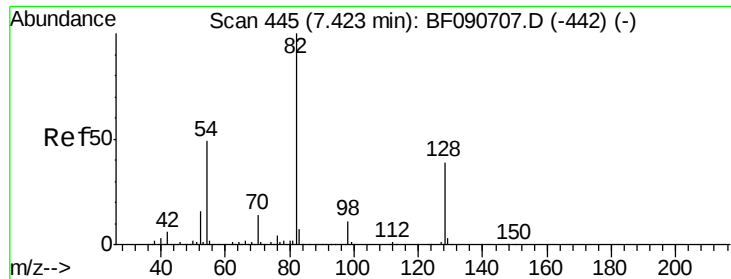
Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



Time-->

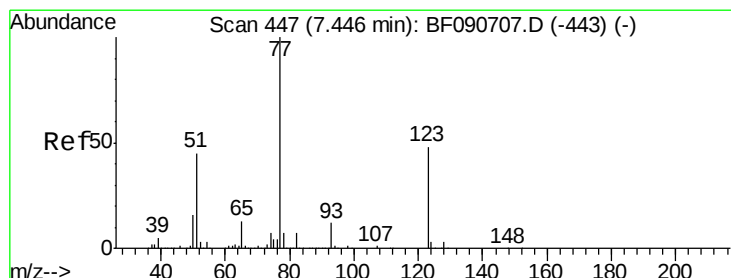
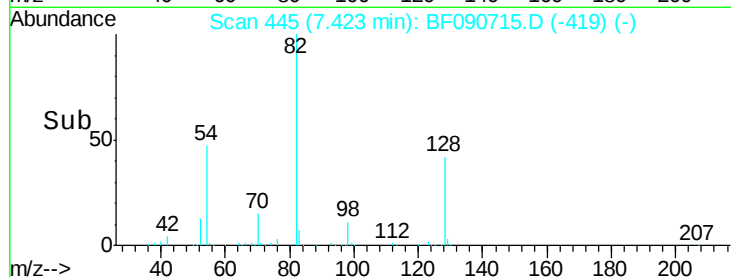
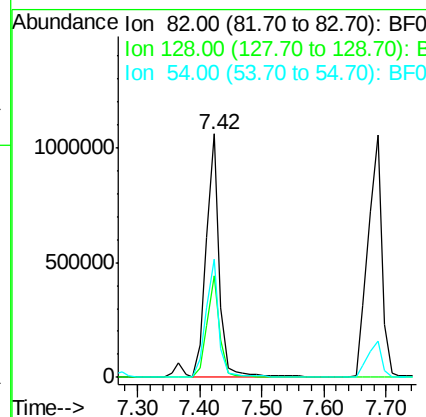
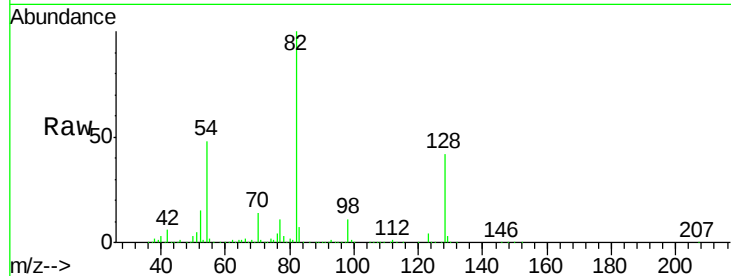




#23  
Nitrobenzene-d5  
Concen: 68.51 ng  
RT: 7.42 min Scan# 445  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

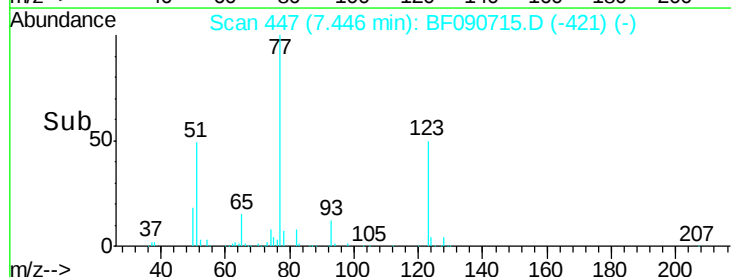
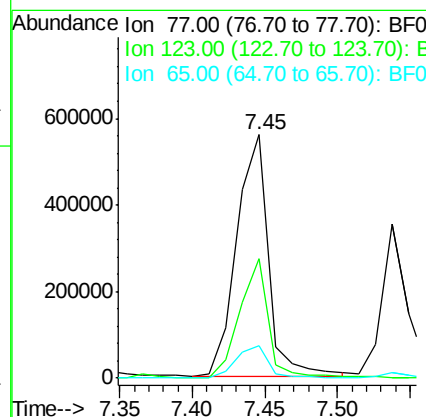
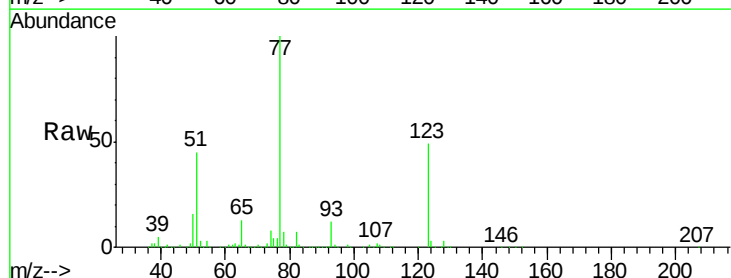
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

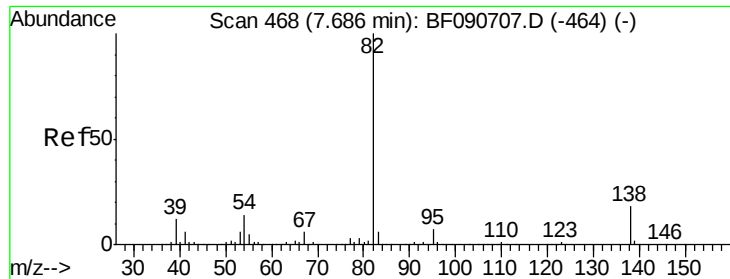
Tot Ion: 82 Resp: 1556984  
Ion Ratio Lower Upper  
82 100  
128 41.6 51.0 76.6#  
54 48.4 47.5 71.3



#24  
Nitrobenzene  
Concen: 34.21 ng  
RT: 7.45 min Scan# 447  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion: 77 Resp: 842802  
Ion Ratio Lower Upper  
77 100  
123 49.0 59.8 89.8#  
65 13.2 10.2 15.4





#25

Isophorone

Concen: 37.25 ng

RT: 7.69 min Scan# 468

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampled :

PB94239BS

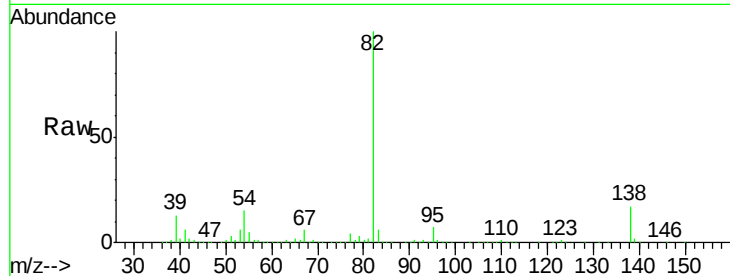
Tot Ion: 82 Resp: 1602641

Ion Ratio Lower Upper

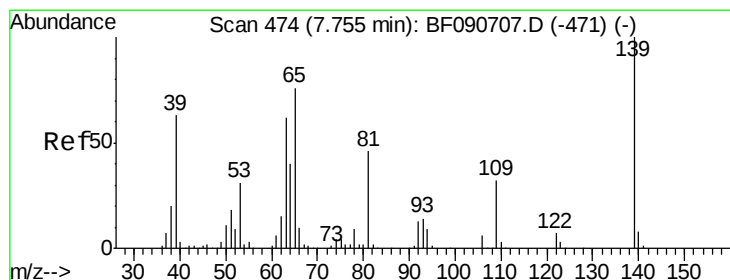
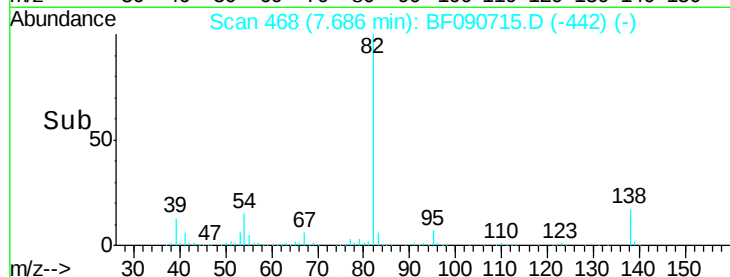
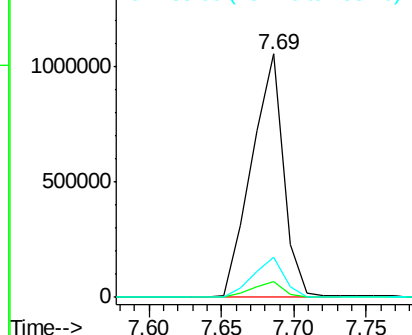
82 100

95 6.6 4.0 6.0#

138 16.6 18.3 27.5#



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: 37.22 ng

RT: 7.75 min Scan# 474

Delta R.T. -0.01 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

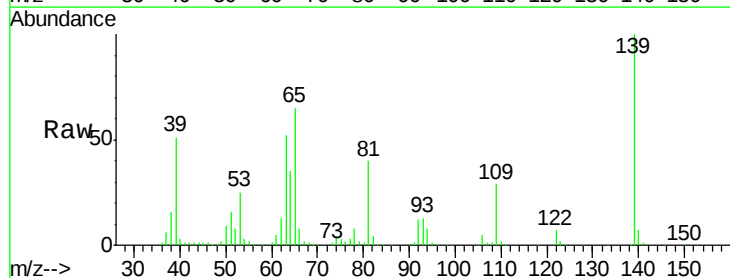
Tgt Ion: 139 Resp: 374607

Ion Ratio Lower Upper

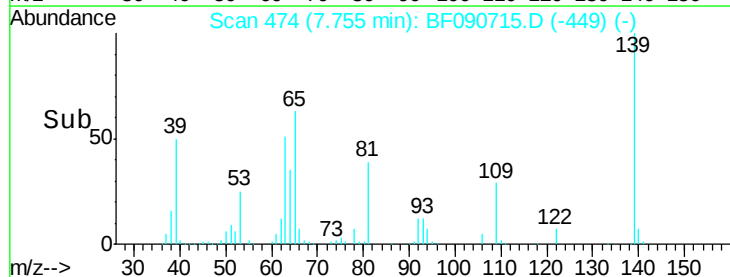
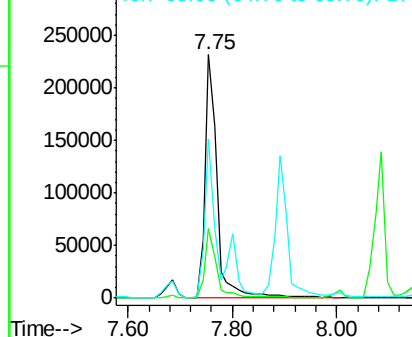
139 100

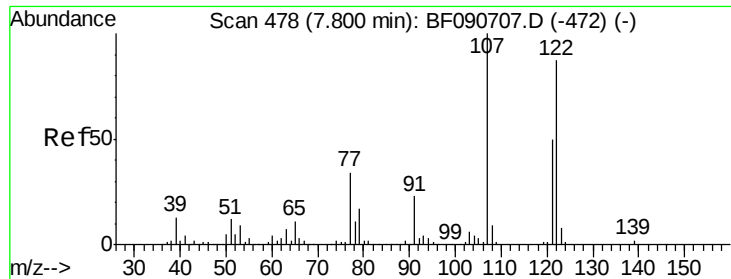
109 28.7 11.0 16.4#

65 65.1 24.7 37.1#



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





#27

2,4-Dimethylphenol

Concen: 36.59 ng

RT: 7.80 min Scan# 478

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

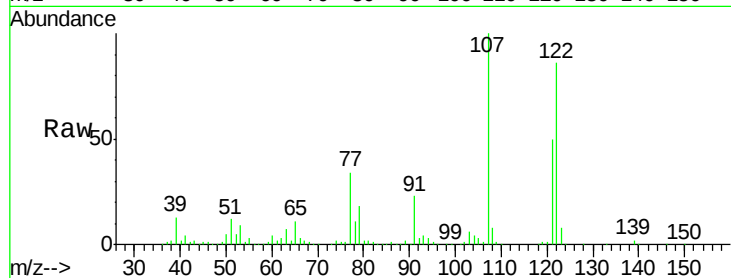
Tot Ion:122 Resp: 652985

Ion Ratio Lower Upper

122 100

107 116.2 71.8 107.6#

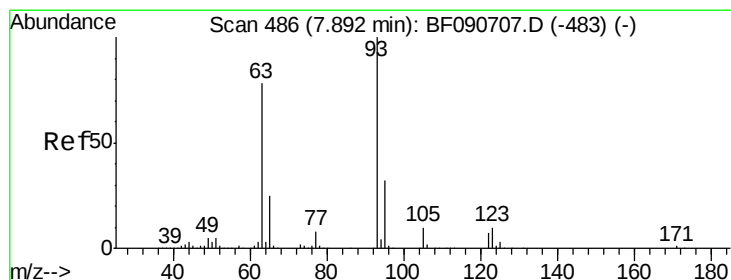
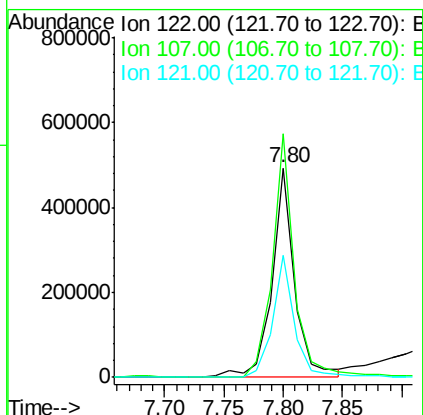
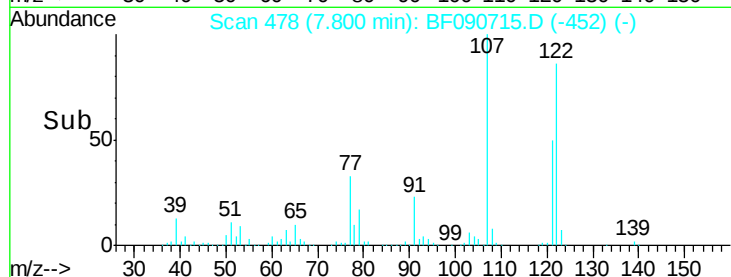
121 58.3 42.3 63.5



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 39.18 ng

RT: 7.89 min Scan# 486

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

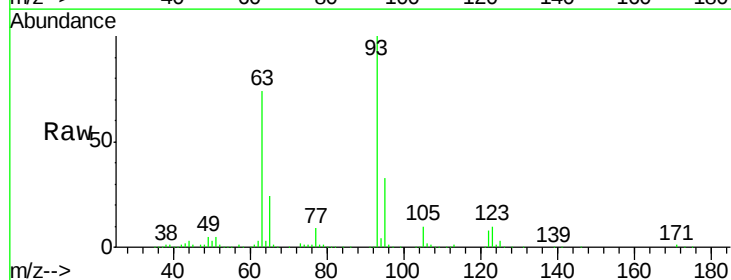
Tgt Ion: 93 Resp: 922254

Ion Ratio Lower Upper

93 100

95 32.6 27.5 41.3

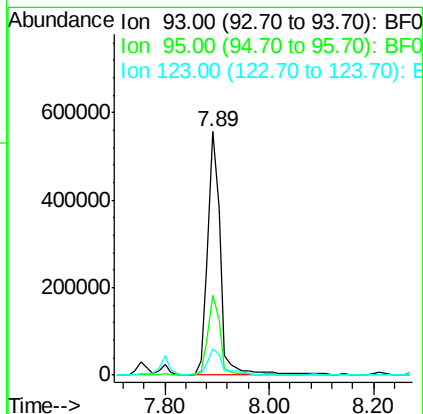
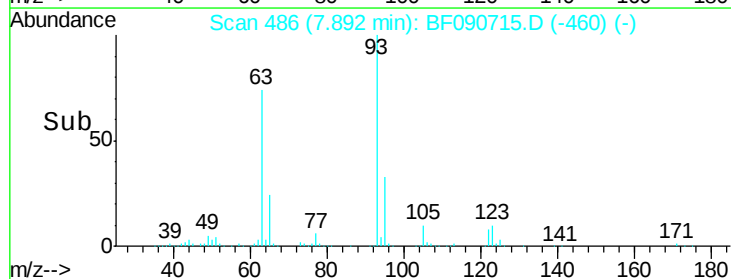
123 10.5 13.7 20.5#

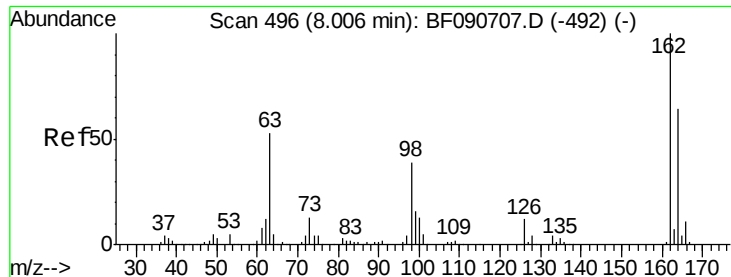


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 123.00 (122.70 to 123.70): E

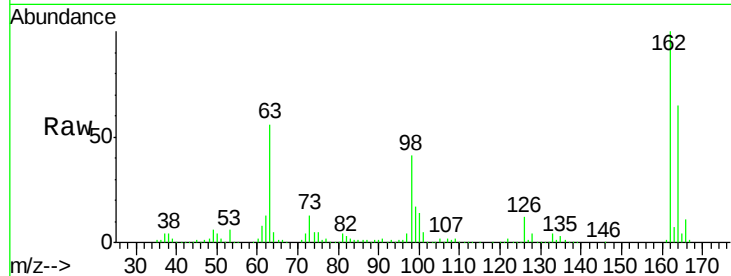




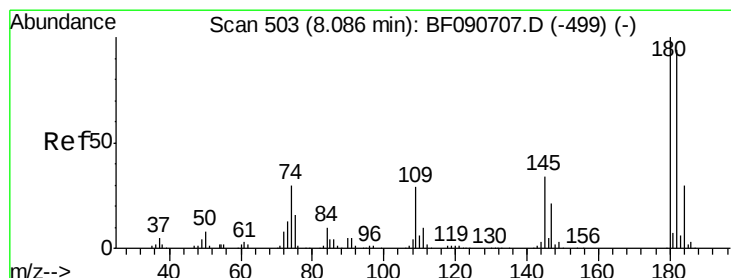
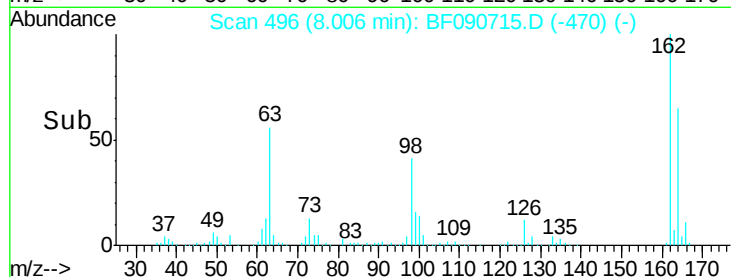
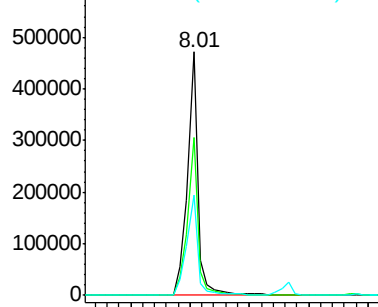
#29  
2,4-Dichlorophenol  
Concen: 39.98 ng  
RT: 8.01 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

Tot Ion:162 Resp: 585642  
Ion Ratio Lower Upper  
162 100  
164 64.7 44.9 84.9  
98 41.2 13.0 53.0

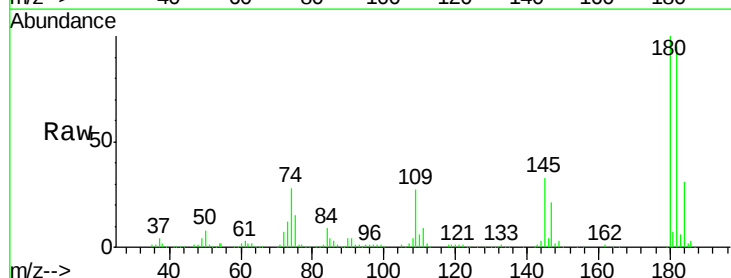


Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 164.00 (163.70 to 164.70): E  
Ion 98.00 (97.70 to 98.70): BF0

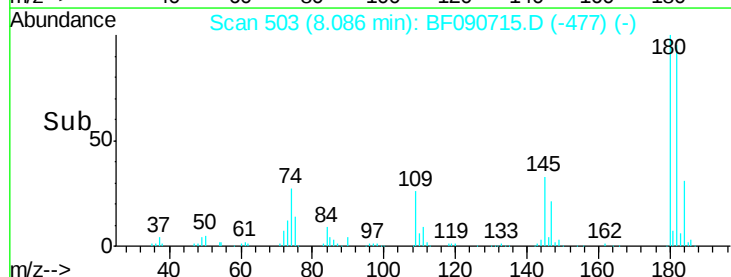
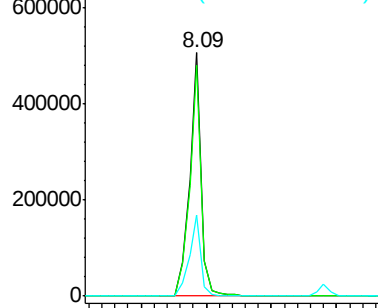


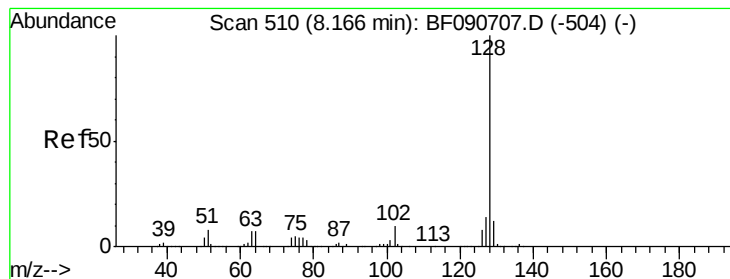
#30  
1,2,4-Trichlorobenzene  
Concen: 36.89 ng  
RT: 8.09 min Scan# 503  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:180 Resp: 635909  
Ion Ratio Lower Upper  
180 100  
182 95.0 77.1 115.7  
145 33.2 23.3 34.9



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: 36.48 ng

RT: 8.17 min Scan# 510

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

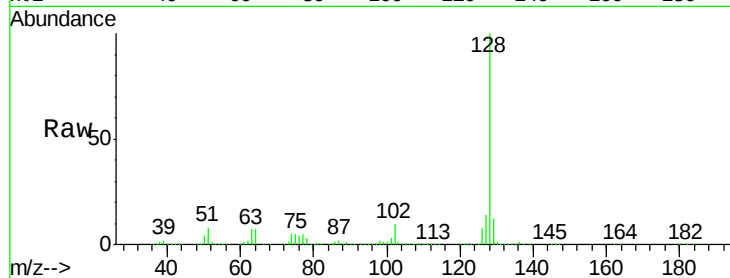
Tot Ion:128 Resp: 2224151

Ion Ratio Lower Upper

128 100

129 11.9 8.4 12.6

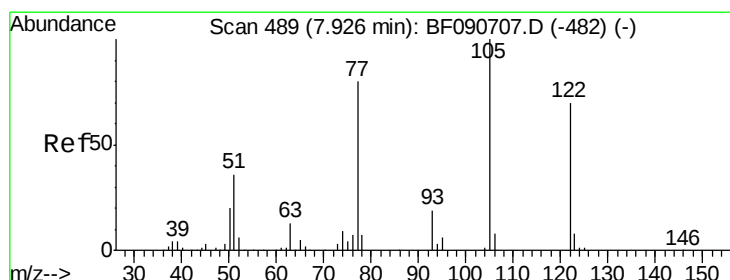
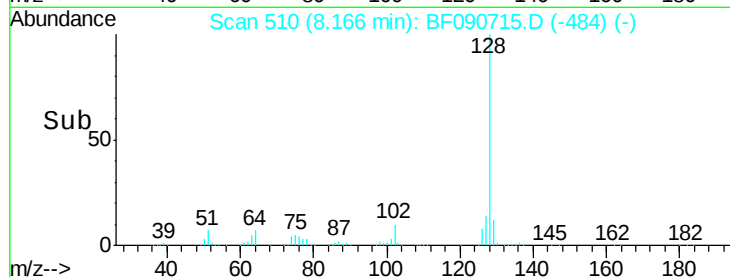
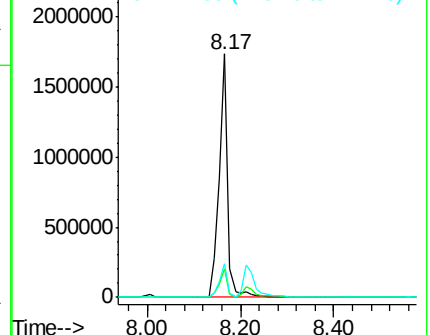
127 13.9 9.9 14.9



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: 31.38 ng

RT: 7.94 min Scan# 490

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

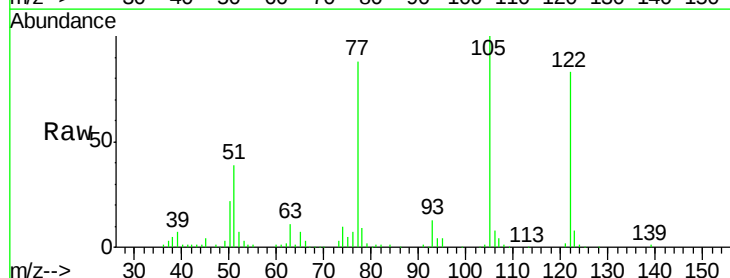
Tgt Ion:122 Resp: 355788

Ion Ratio Lower Upper

122 100

105 120.7 76.1 116.1#

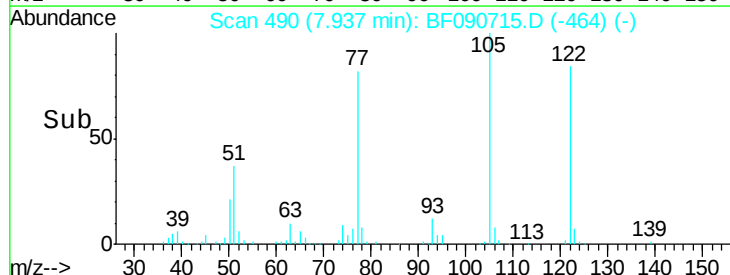
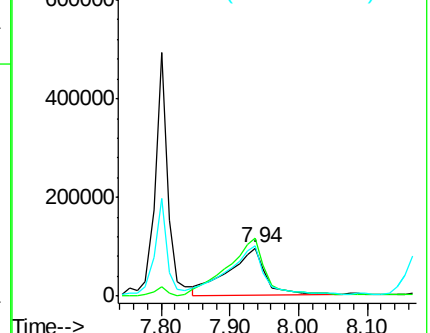
77 105.9 40.5 80.5#

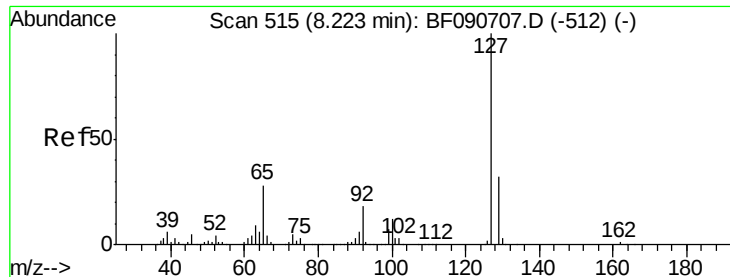


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

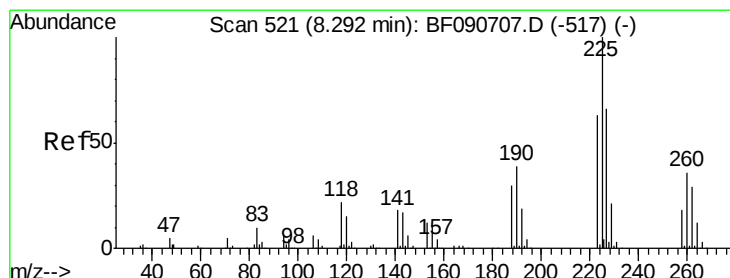
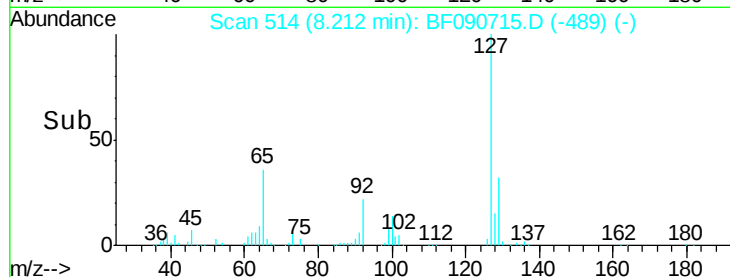
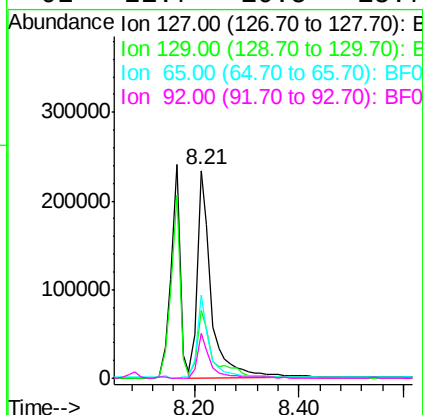
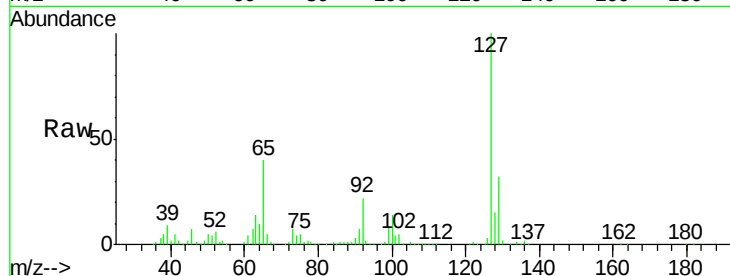




#33  
4-Chloroaniline  
Concen: 19.21 ng  
RT: 8.21 min Scan# 514  
Delta R.T. -0.01 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

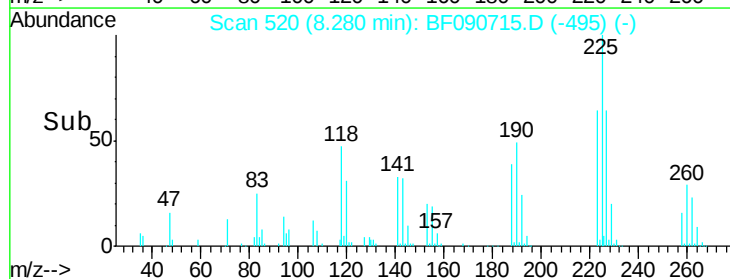
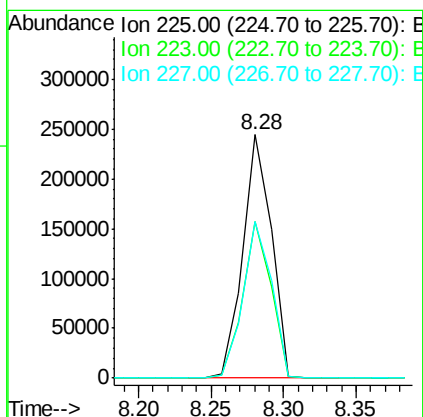
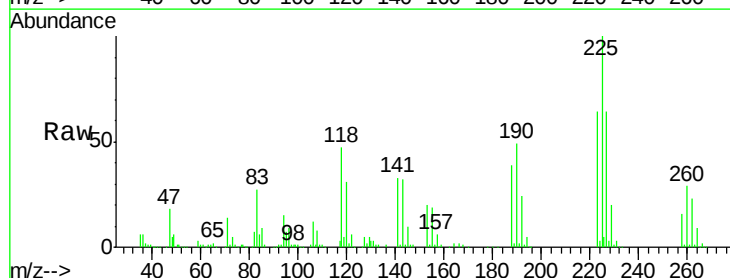
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

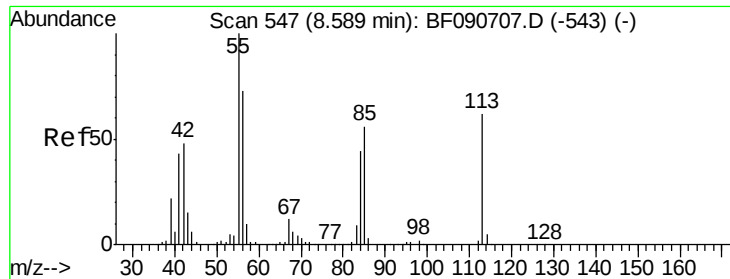
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 32.4  | 25.8  | 38.6  |
| 65      | 39.9  | 17.9  | 26.9  |
| 92      | 21.7  | 10.5  | 15.7  |



#34  
Hexachlorobutadiene  
Concen: 34.53 ng  
RT: 8.28 min Scan# 520  
Delta R.T. -0.01 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.5  | 50.2  | 75.2  |
| 227     | 64.4  | 52.2  | 78.2  |





#35

Caprolactam

Concen: 27.27 ng

RT: 8.59 min Scan# 547

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

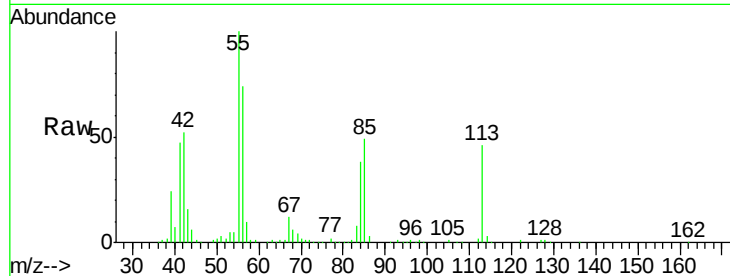
Tot Ion:113 Resp: 114090

Ion Ratio Lower Upper

113 100

55 215.1 152.4 192.4#

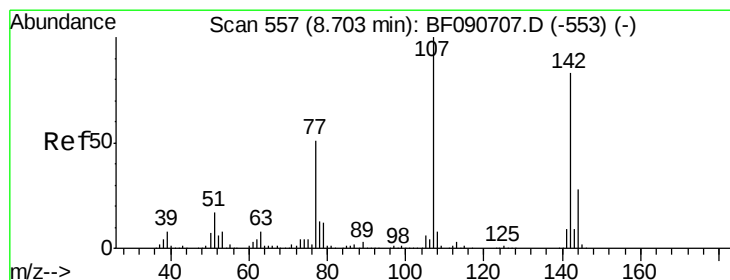
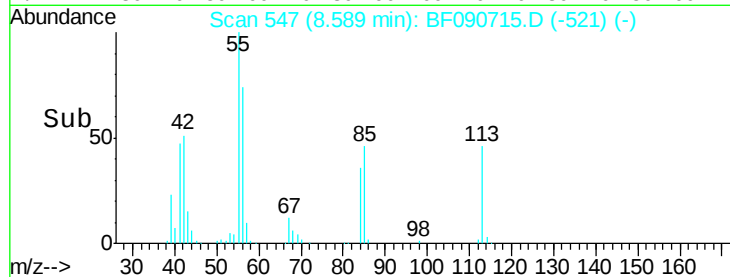
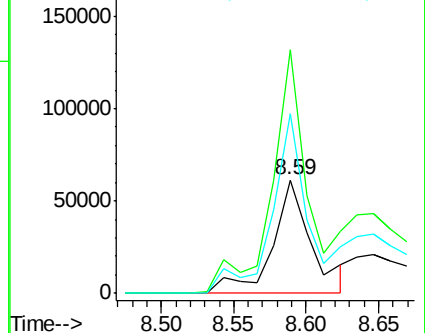
56 159.0 104.6 144.6#



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: 36.28 ng

RT: 8.70 min Scan# 557

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

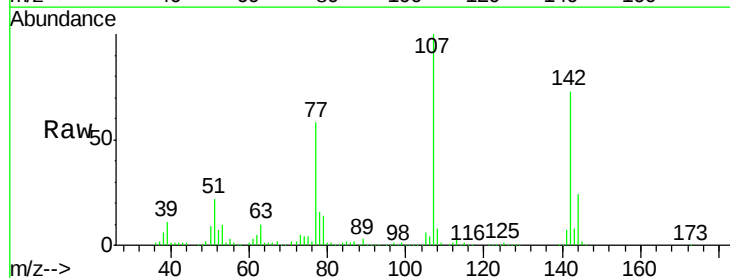
Tgt Ion:107 Resp: 618068

Ion Ratio Lower Upper

107 100

144 23.6 25.4 38.0#

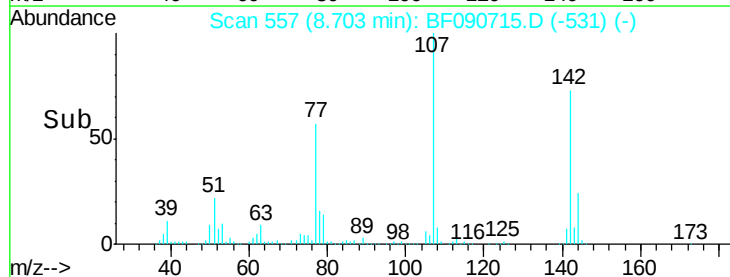
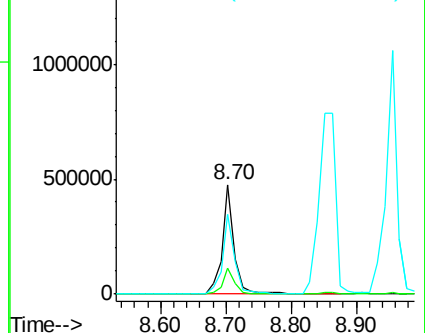
142 73.2 77.3 115.9#

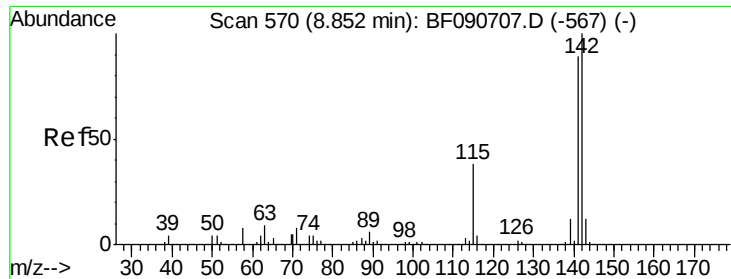


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

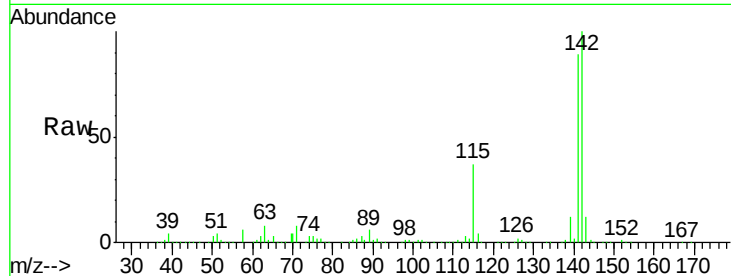




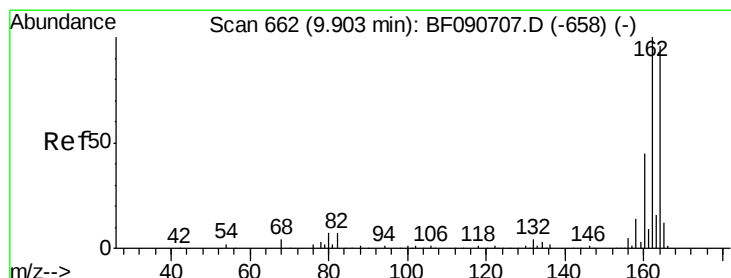
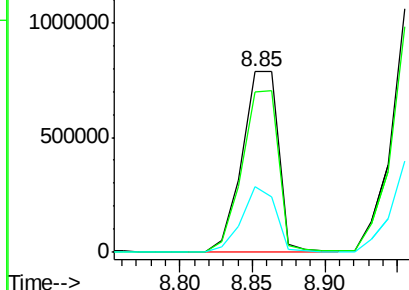
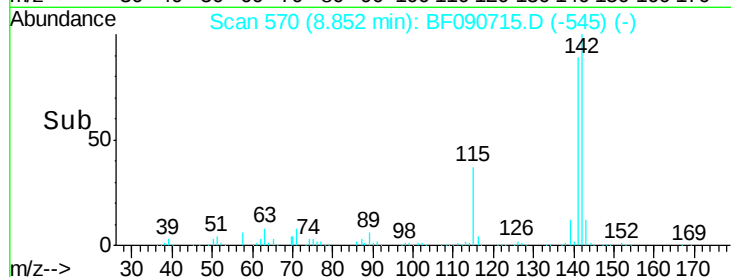
#37  
2-Methylnaphthalene  
Concen: 38.40 ng  
RT: 8.85 min Scan# 570  
Delta R.T. -0.01 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Instrument :  
BNA\_F  
ClientSampled :  
PB94239BS

Tot Ion:142 Resp: 1368353  
Ion Ratio Lower Upper  
142 100  
141 89.0 67.5 101.3  
115 36.5 18.2 27.2#

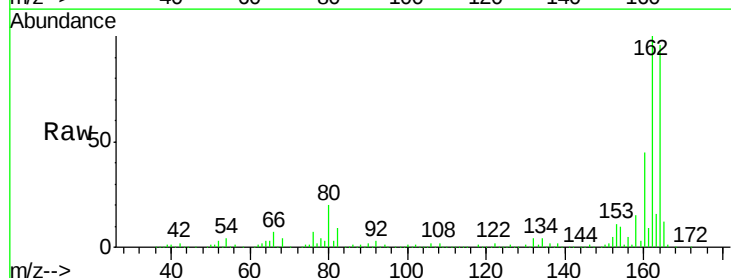


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

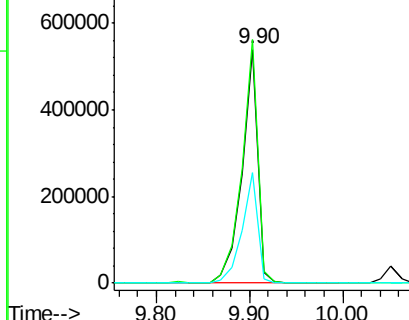
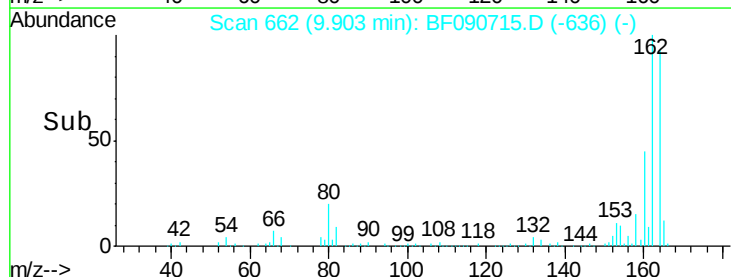


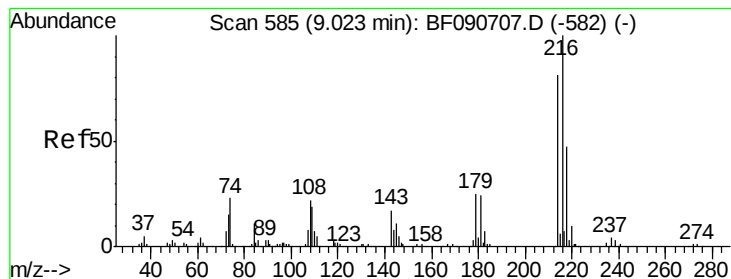
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.90 min Scan# 662  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:164 Resp: 636664  
Ion Ratio Lower Upper  
164 100  
162 104.3 75.2 112.8  
160 47.2 31.5 47.3



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





#39

1,2,4,5-Tetrachlorobenzene

Concen: 34.43 ng

RT: 9.02 min Scan# 585

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

Tot Ion:216 Resp: 591919

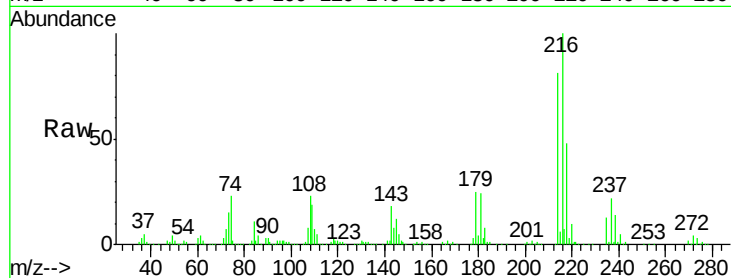
Ion Ratio Lower Upper

216 100

214 79.5 63.5 95.3

179 23.5 16.6 24.8

108 24.5 16.3 24.5#

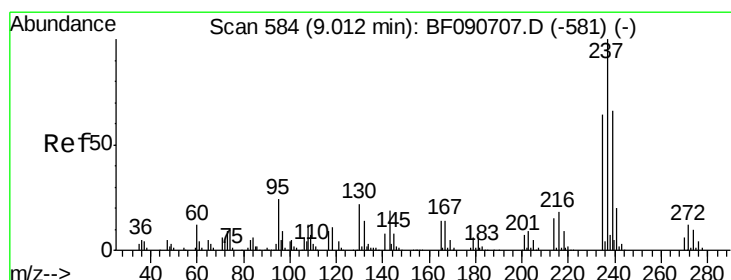
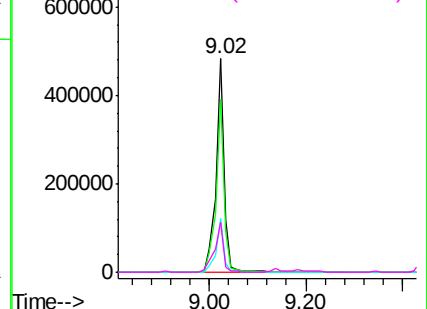
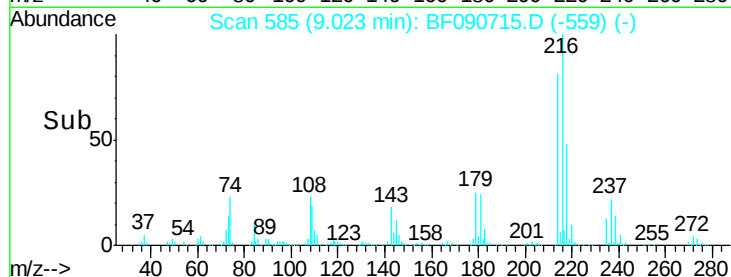


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 90.75 ng

RT: 9.01 min Scan# 584

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

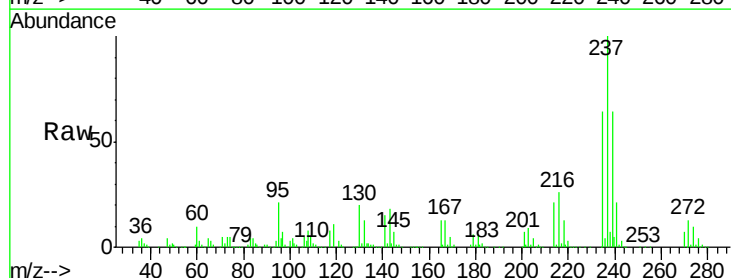
Tgt Ion:237 Resp: 732375

Ion Ratio Lower Upper

237 100

235 63.9 42.0 82.0

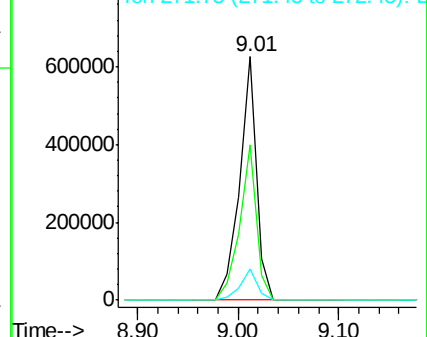
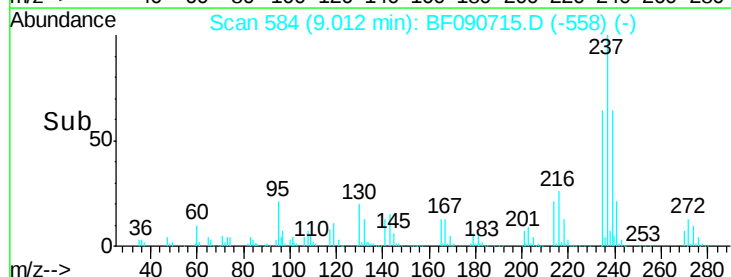
272 12.7 0.0 36.1

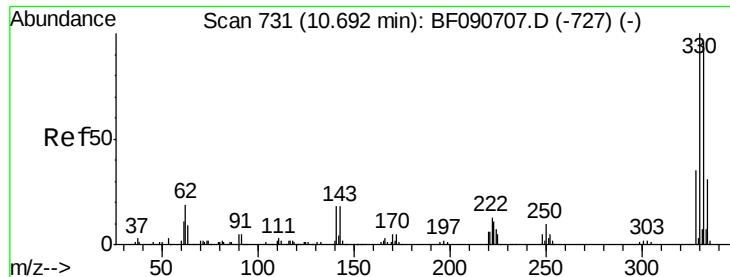


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

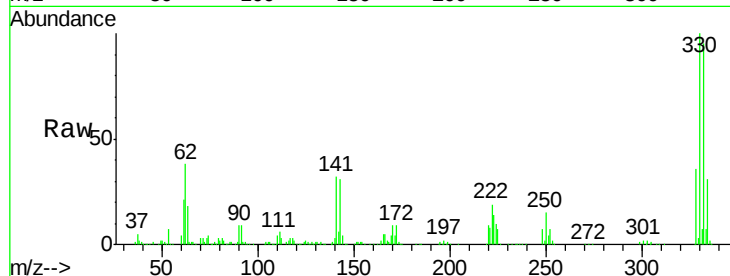




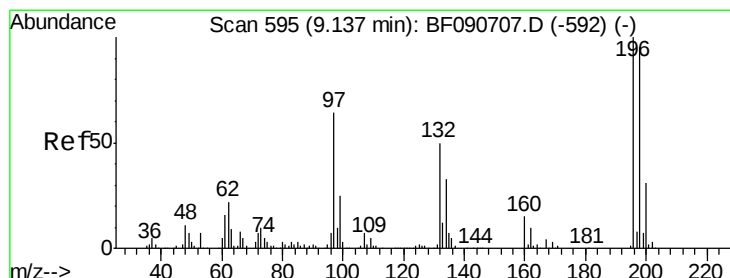
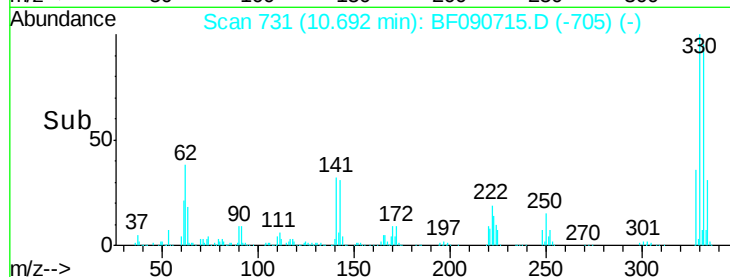
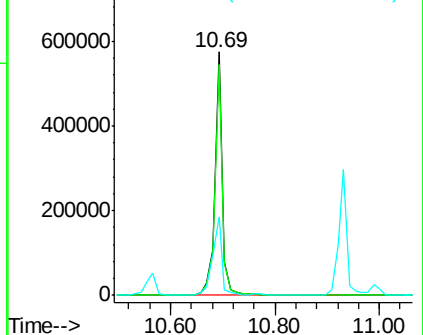
#41  
 2,4,6-Tribromophenol  
 Concen: 114.43 ng  
 RT: 10.69 min Scan# 731  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 76.6  | 114.8 |
| 141     | 38.7  | 29.7  | 44.5  |

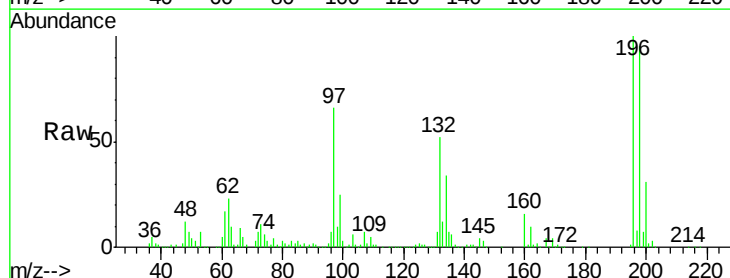


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

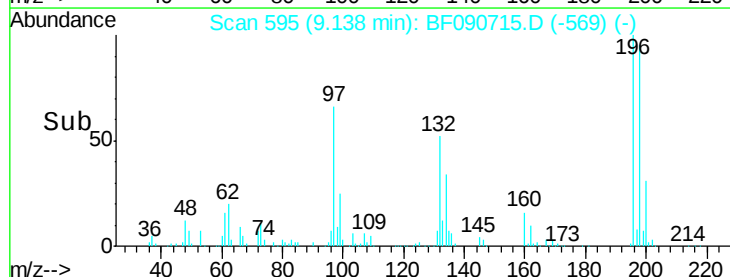
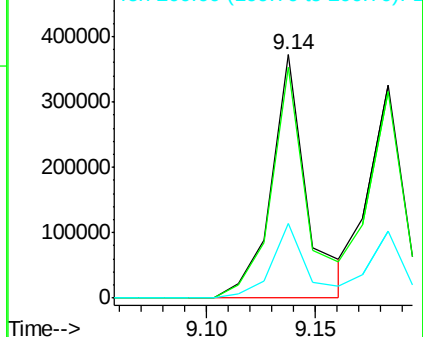


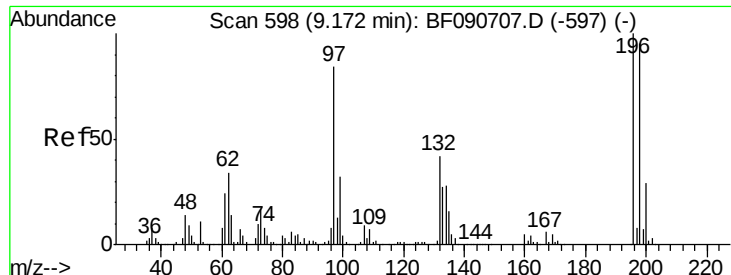
#42  
 2,4,6-Trichlorophenol  
 Concen: 39.84 ng  
 RT: 9.14 min Scan# 595  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 94.9  | 75.7  | 113.5 |
| 200     | 30.8  | 23.9  | 35.9  |



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

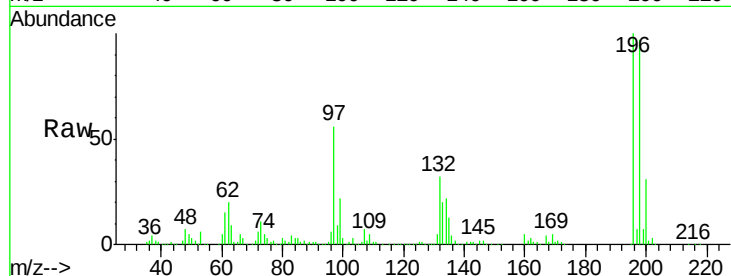




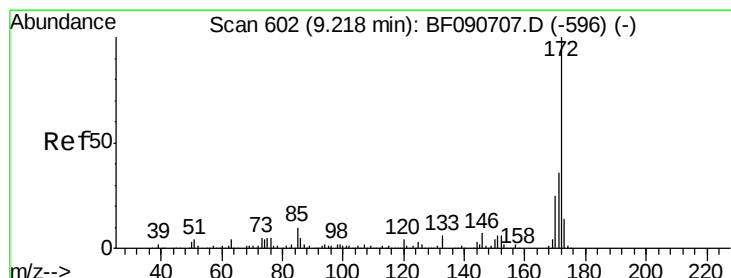
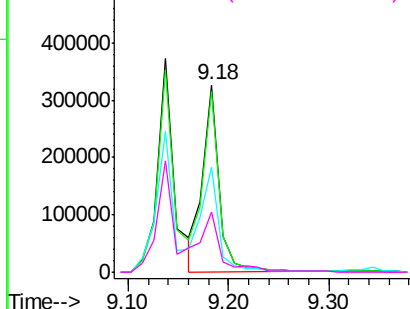
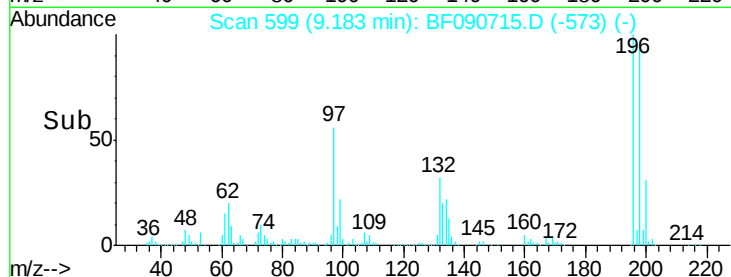
#43  
 2,4,5-Trichlorophenol  
 Concen: 34.77 ng  
 RT: 9.18 min Scan# 599  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

Tot Ion:196 Resp: 376130  
 Ion Ratio Lower Upper  
 196 100  
 198 96.7 75.4 113.0  
 97 56.2 33.3 49.9#  
 132 32.5 24.6 37.0

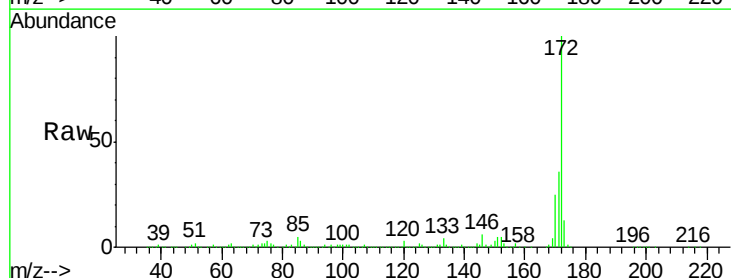


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF0  
 Ion 132.00 (131.70 to 132.70): E

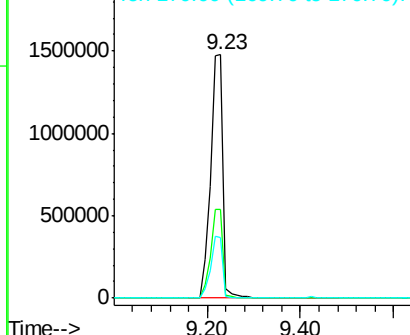
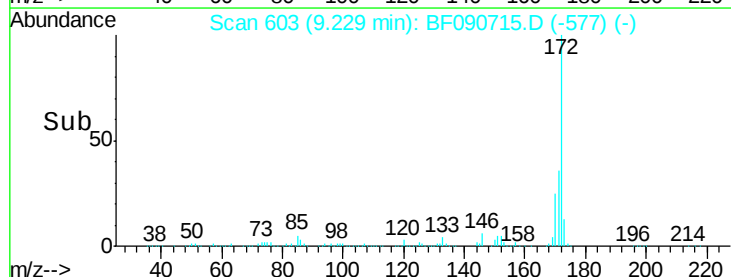


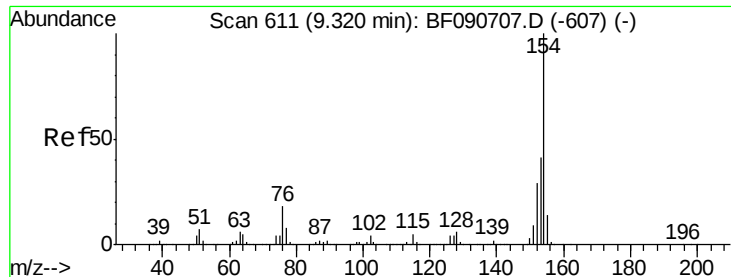
#44  
 2-Fluorobiphenyl  
 Concen: 67.32 ng  
 RT: 9.23 min Scan# 603  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Tgt Ion:172 Resp: 2760795  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 26.1 39.1  
 170 24.8 17.4 26.2



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

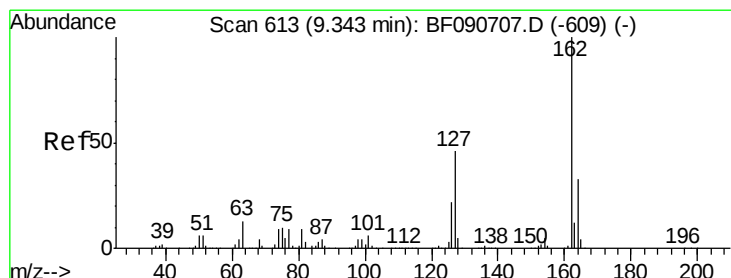
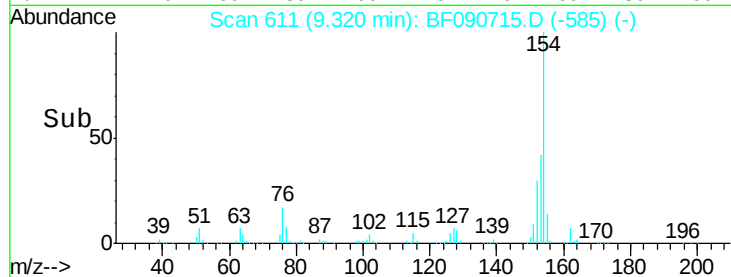
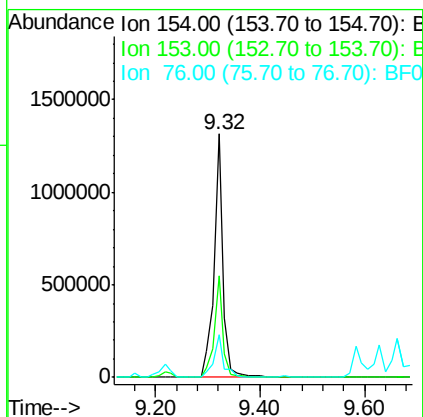
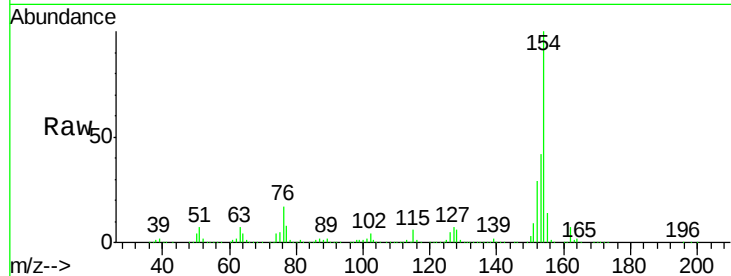




#45  
 1,1'-Biphenyl  
 Concen: 31.68 ng  
 RT: 9.32 min Scan# 611  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

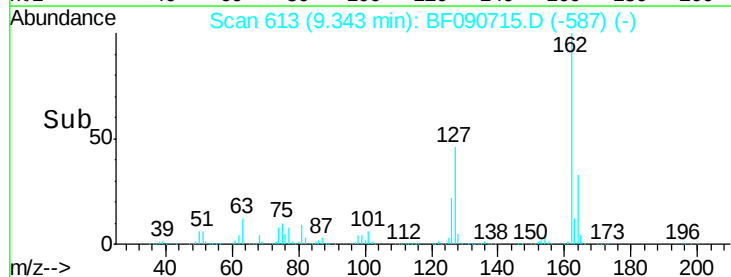
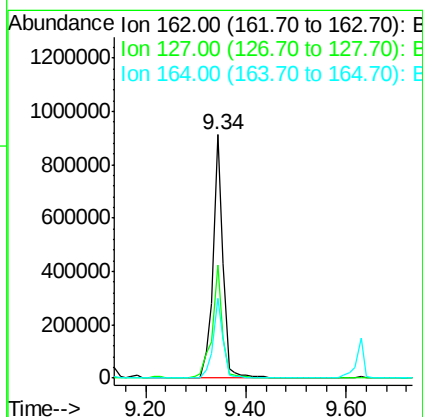
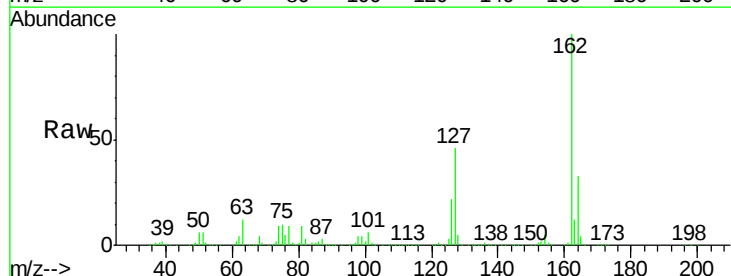
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

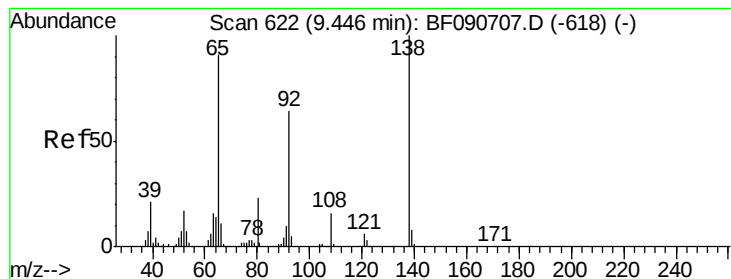
Tot Ion:154 Resp: 1583705  
 Ion Ratio Lower Upper  
 154 100  
 153 41.9 17.1 57.1  
 76 17.5 0.0 31.6



#46  
 2-Chloronaphthalene  
 Concen: 34.03 ng  
 RT: 9.34 min Scan# 613  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Tgt Ion:162 Resp: 1264797  
 Ion Ratio Lower Upper  
 162 100  
 127 46.3 27.6 41.4#  
 164 33.0 25.4 38.2





#47

2-Nitroaniline

Concen: 36.88 ng

RT: 9.45 min Scan# 622

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

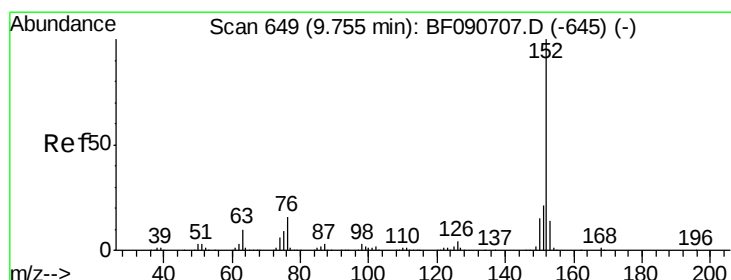
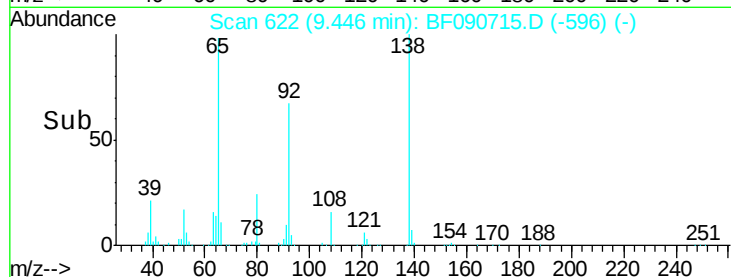
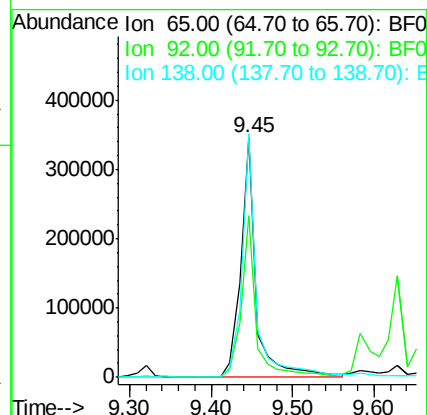
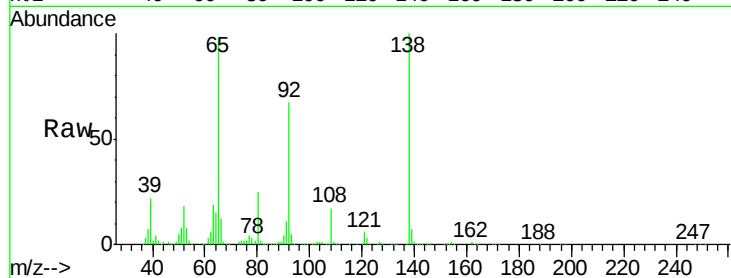
Tot Ion: 65 Resp: 454914

Ion Ratio Lower Upper

65 100

92 67.8 55.4 83.0

138 101.8 115.5 173.3#



#48

Acenaphthylene

Concen: 35.85 ng

RT: 9.77 min Scan# 650

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

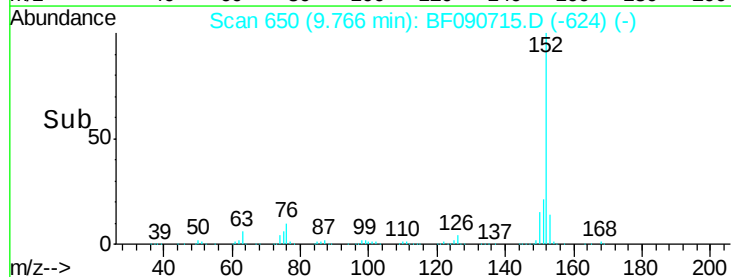
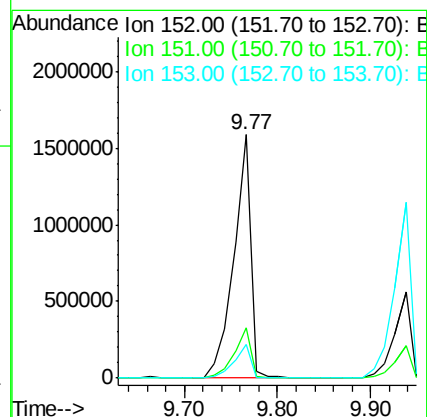
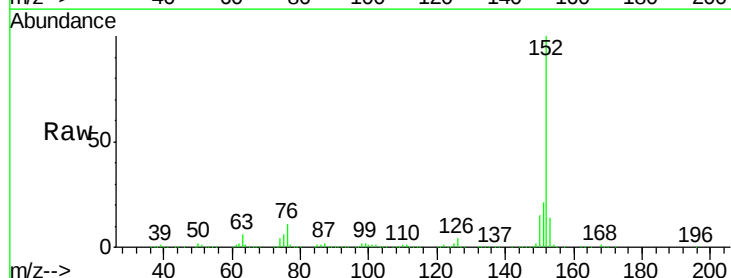
Tgt Ion: 152 Resp: 2032911

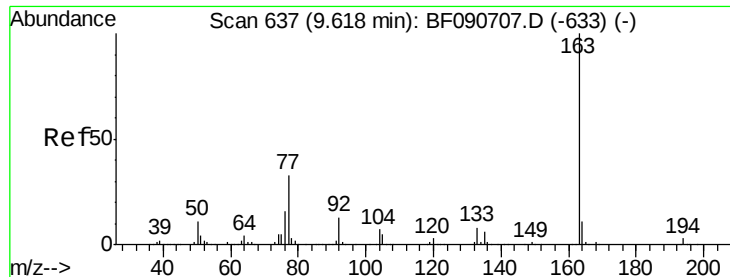
Ion Ratio Lower Upper

152 100

151 20.9 14.6 22.0

153 13.8 10.3 15.5

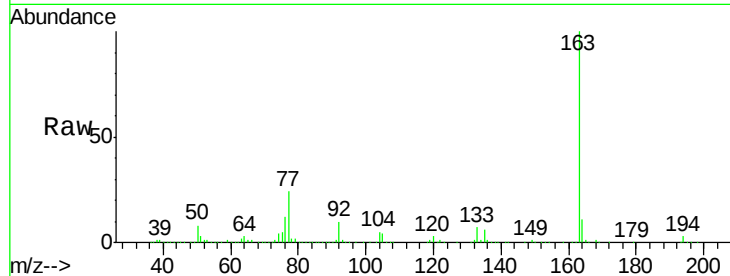




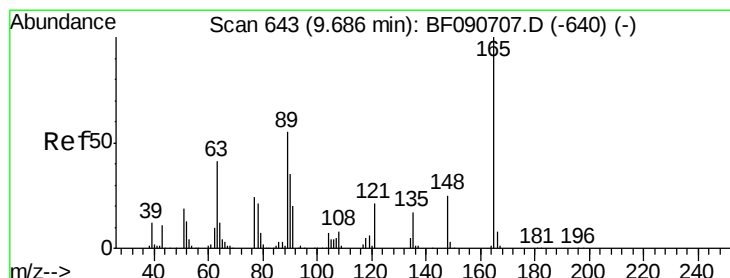
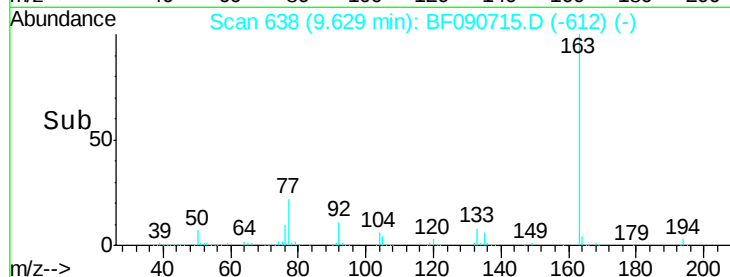
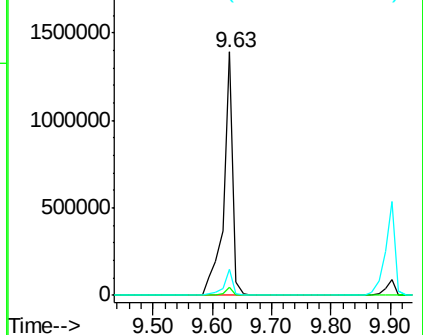
#49  
Dimethylphthalate  
Concen: 37.19 ng  
RT: 9.63 min Scan# 638  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

Tot Ion:163 Resp: 1487674  
Ion Ratio Lower Upper  
163 100  
194 3.4 4.4 6.6#  
164 10.7 8.3 12.5

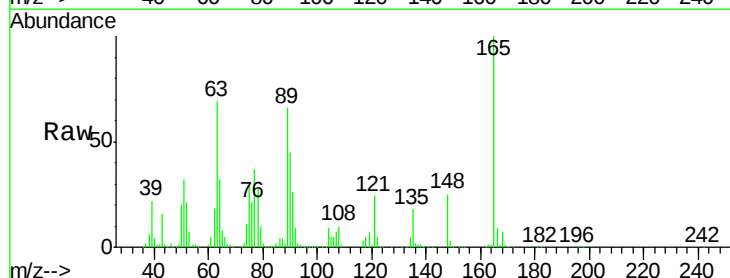


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

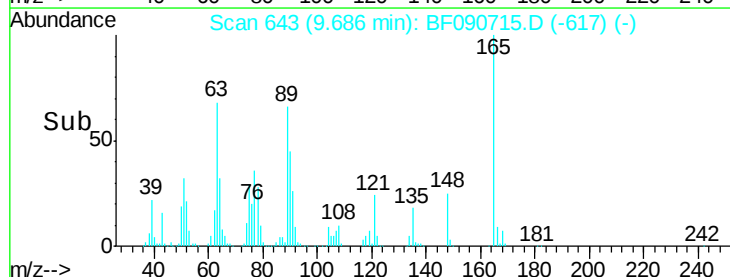
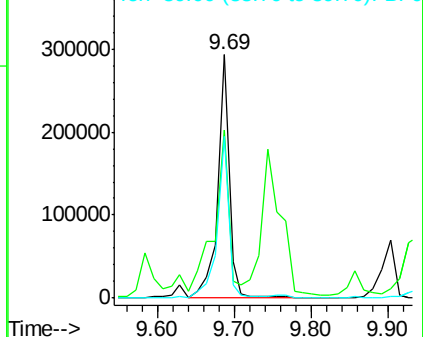


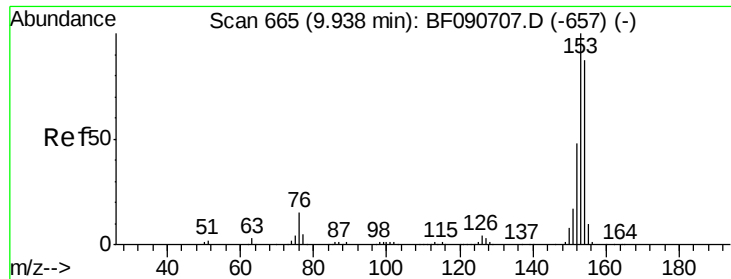
#50  
2,6-Dinitrotoluene  
Concen: 35.78 ng  
RT: 9.69 min Scan# 643  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:165 Resp: 307836  
Ion Ratio Lower Upper  
165 100  
63 69.2 32.3 48.5#  
89 66.5 28.6 43.0#



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: 38.22 ng

RT: 9.94 min Scan# 665

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

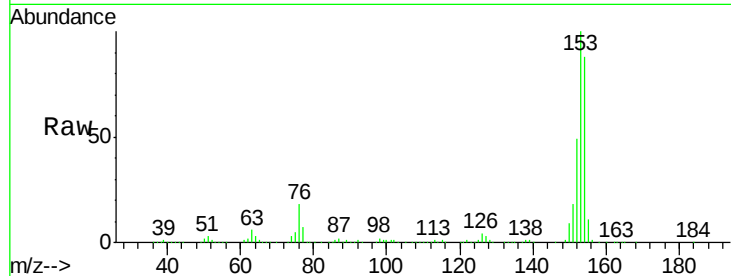
Tot Ion:154 Resp: 1438765

Ion Ratio Lower Upper

154 100

153 113.5 82.1 123.1

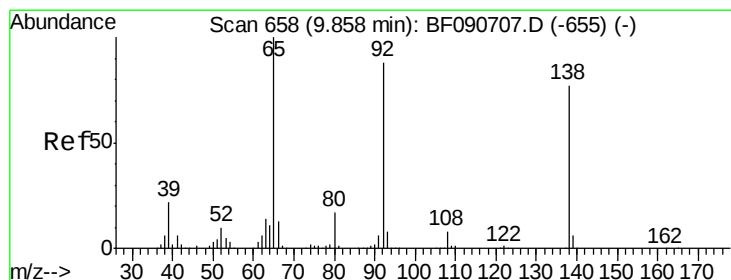
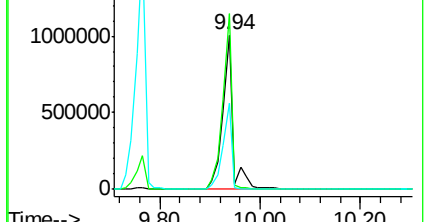
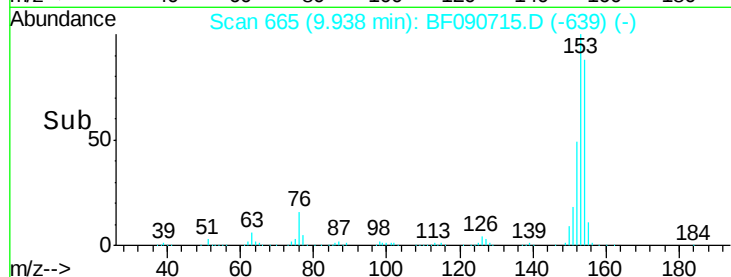
152 55.5 37.9 56.9



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: 21.72 ng

RT: 9.86 min Scan# 658

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

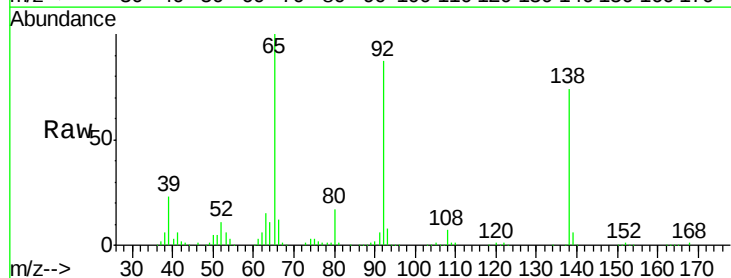
Tgt Ion:138 Resp: 214765

Ion Ratio Lower Upper

138 100

108 9.7 5.7 8.5#

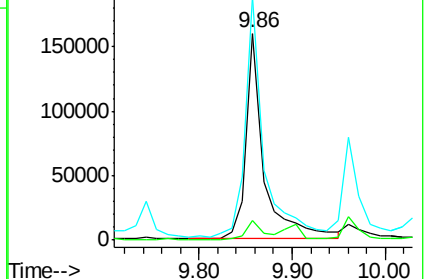
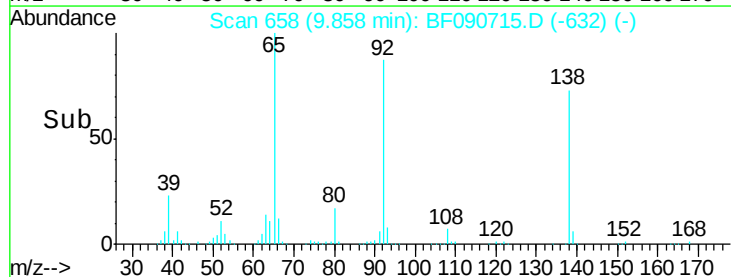
92 117.7 67.7 101.5#

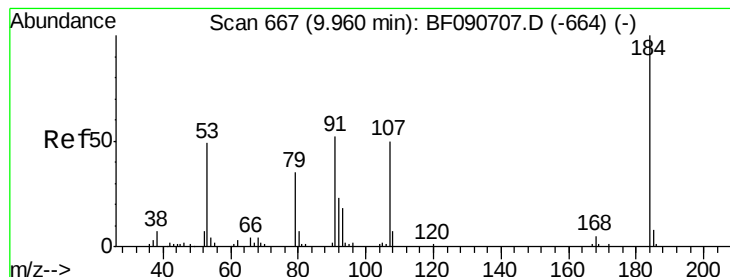


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





#53

2,4-Dinitrophenol

Concen: 70.86 ng

RT: 9.96 min Scan# 667

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

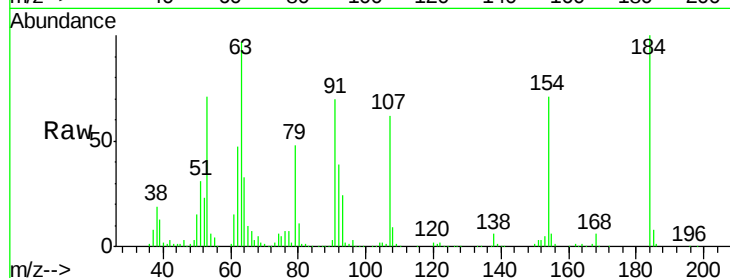
Tot Ion:184 Resp: 328951

Ion Ratio Lower Upper

184 100

63 97.5 35.4 53.2#

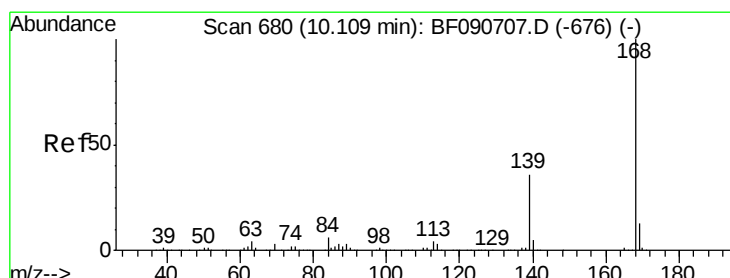
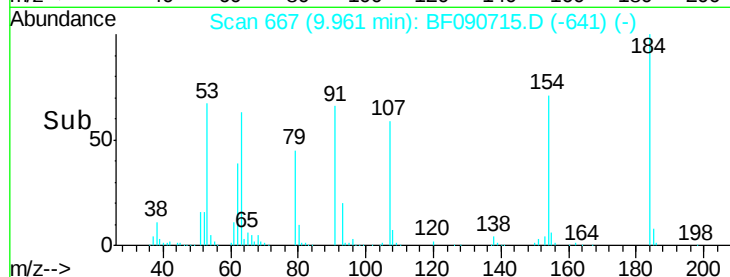
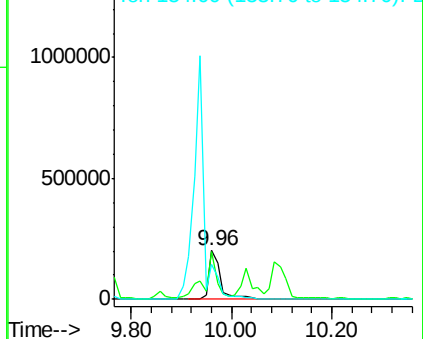
154 71.2 32.2 48.4#



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

Dibenzofuran

Concen: 39.79 ng

RT: 10.11 min Scan# 680

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

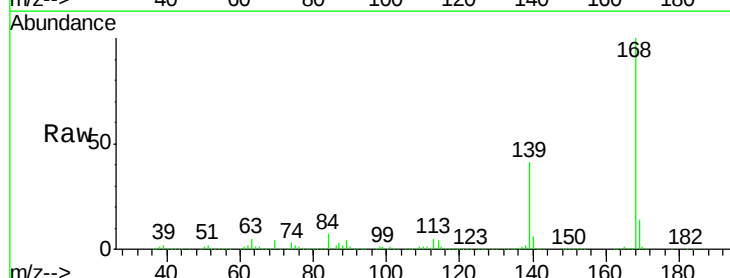
Tgt Ion:168 Resp: 1814618

Ion Ratio Lower Upper

168 100

139 40.6 24.2 36.2#

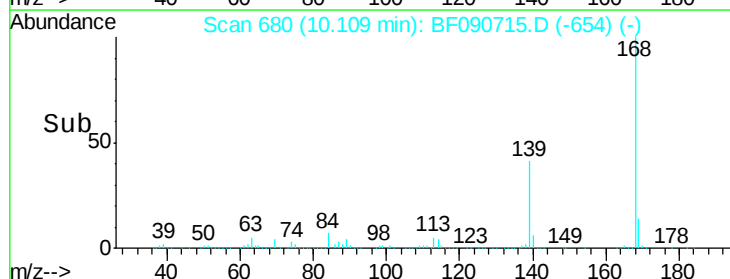
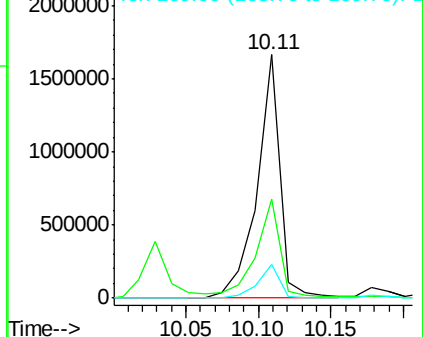
169 14.1 10.6 15.8

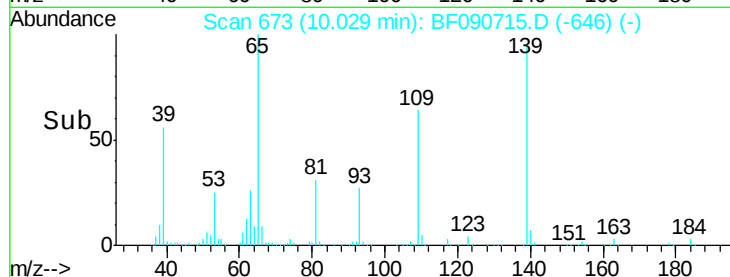
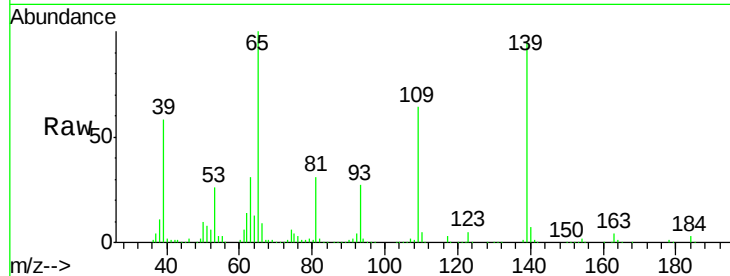
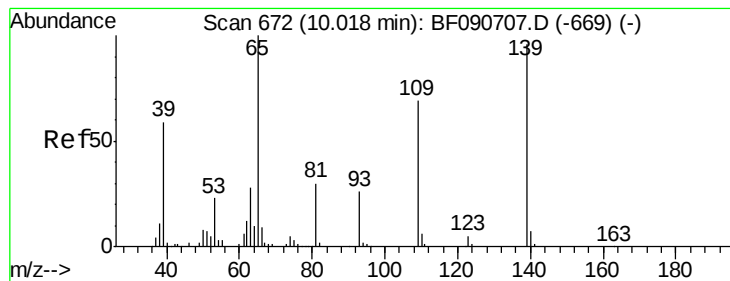


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 77.11 ng

RT: 10.03 min Scan# 673

Delta R.T. 0.01 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

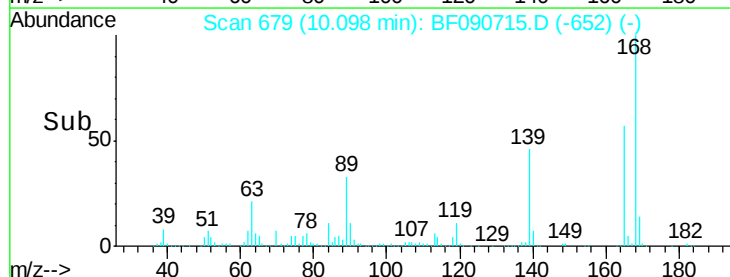
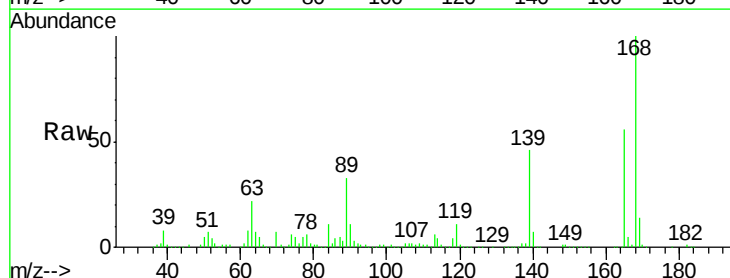
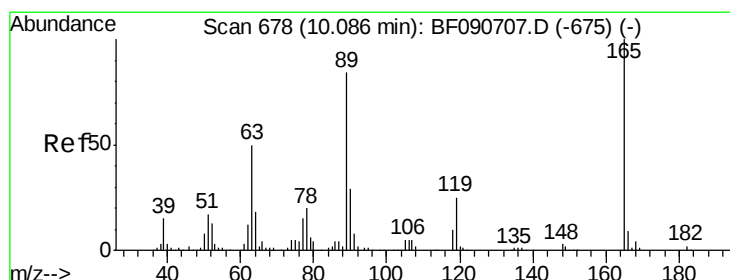
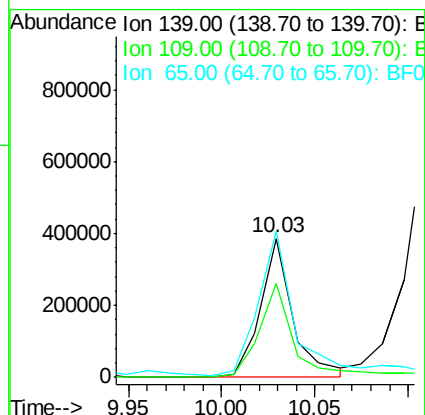
Tot Ion:139 Resp: 467075

Ion Ratio Lower Upper

139 100

109 67.3 12.7 52.7#

65 105.8 45.9 85.9#



#56

2,4-Dinitrotoluene

Concen: 42.65 ng

RT: 10.10 min Scan# 679

Delta R.T. 0.01 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Tgt Ion:165 Resp: 448449

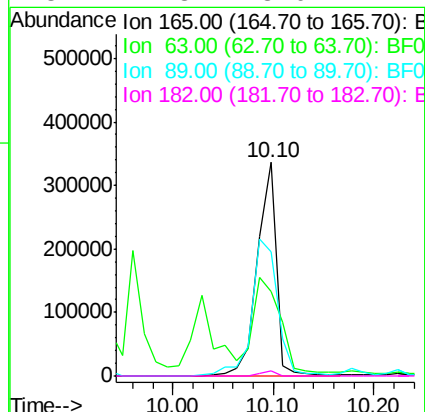
Ion Ratio Lower Upper

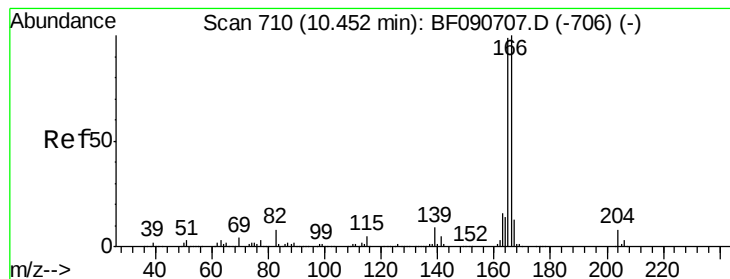
165 100

63 39.4 29.8 44.6

89 58.4 44.5 66.7

182 2.3 3.0 4.4#





#57

Fluorene

Concen: 37.96 ng

RT: 10.45 min Scan# 710

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

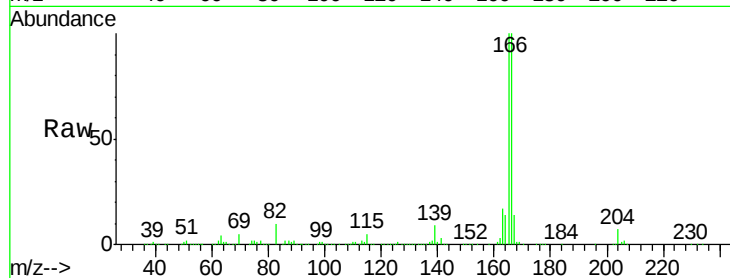
Tot Ion:166 Resp: 1434330

Ion Ratio Lower Upper

166 100

165 99.8 72.6 109.0

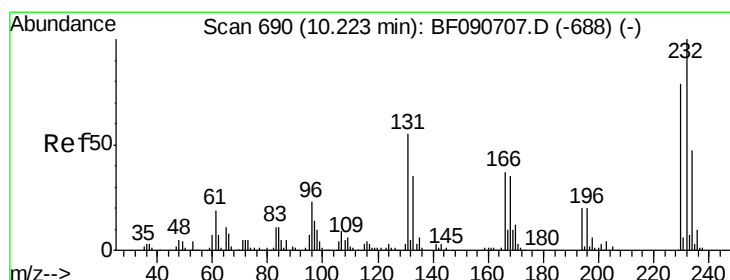
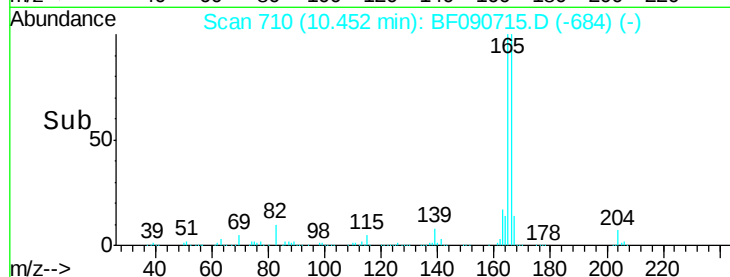
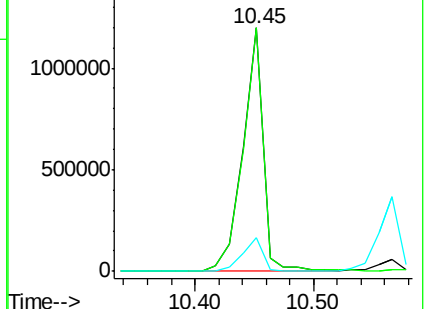
167 13.7 10.6 16.0



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: 39.49 ng

RT: 10.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Tgt Ion:232 Resp: 335261

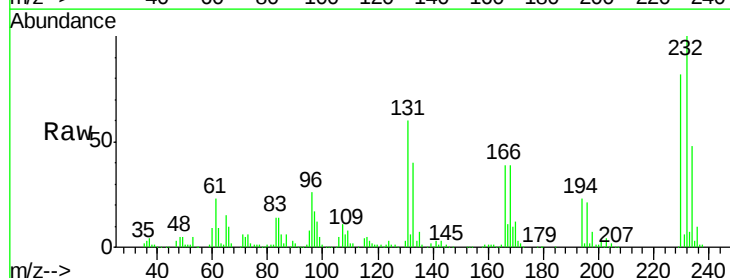
Ion Ratio Lower Upper

232 100

131 55.3 38.5 57.7

130 2.5 1.8 2.6

166 34.2 25.0 37.6

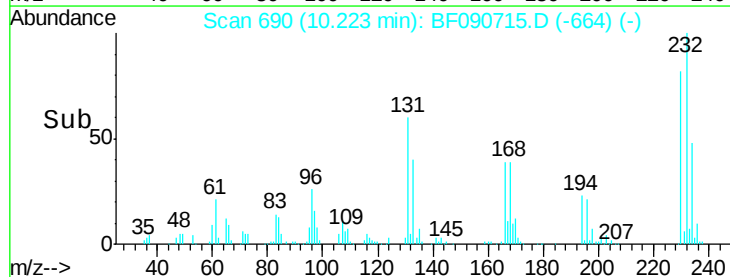
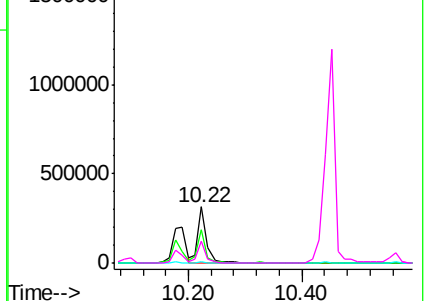


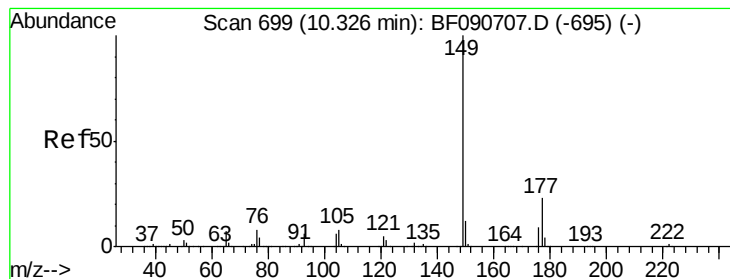
Abundance Ion 232.00 (231.70 to 232.70): E

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: 35.57 ng

RT: 10.33 min Scan# 699

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

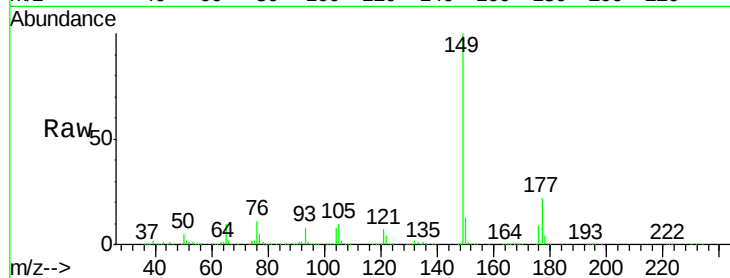
Tot Ion:149 Resp: 1475902

Ion Ratio Lower Upper

149 100

177 21.8 17.5 26.3

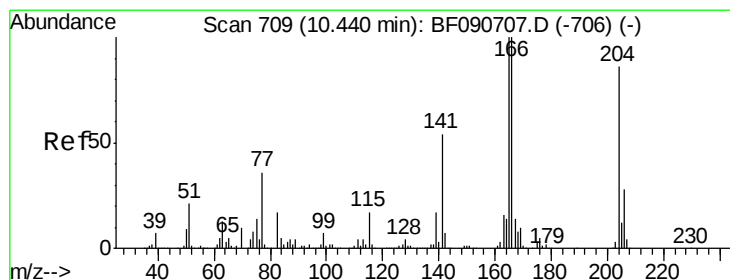
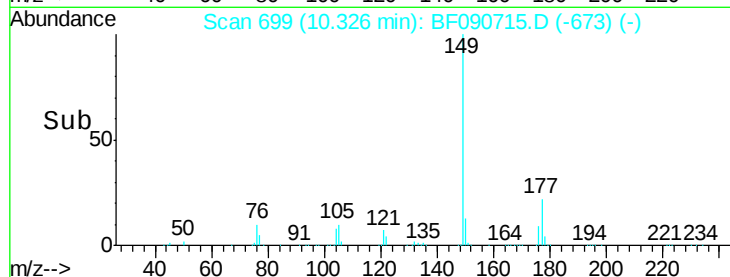
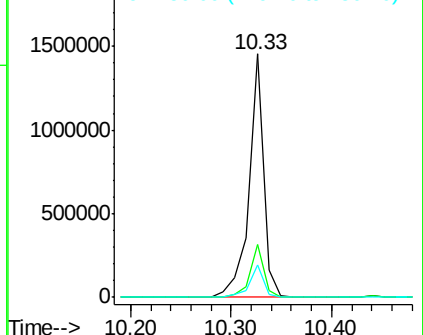
150 13.1 9.4 14.2



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: 38.69 ng

RT: 10.44 min Scan# 709

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

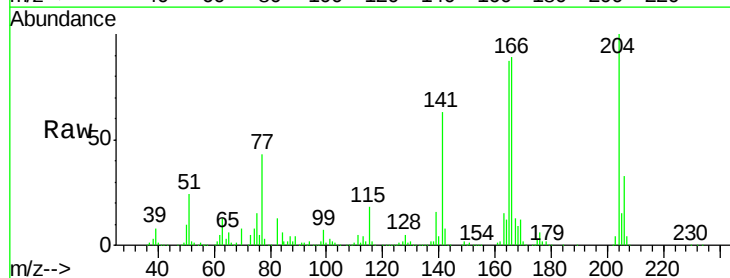
Tgt Ion:204 Resp: 668252

Ion Ratio Lower Upper

204 100

206 33.4 24.8 37.2

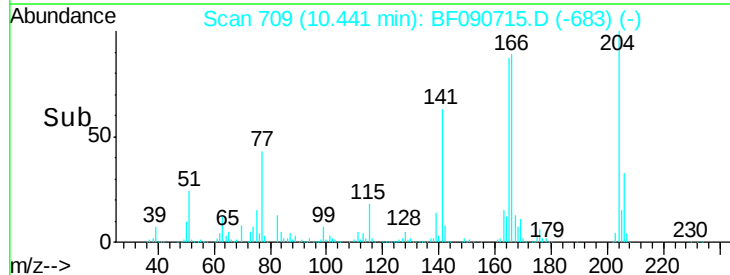
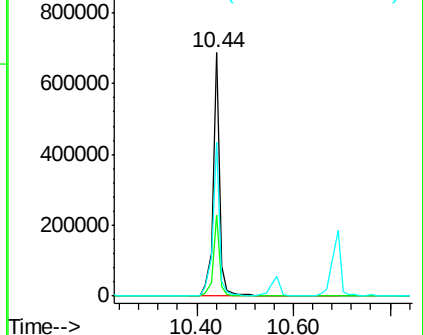
141 63.5 42.2 63.4#

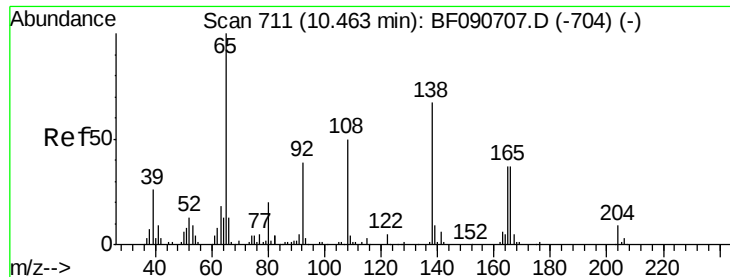


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#61

4-Nitroaniline

Concen: 33.22 ng

RT: 10.47 min Scan# 712

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

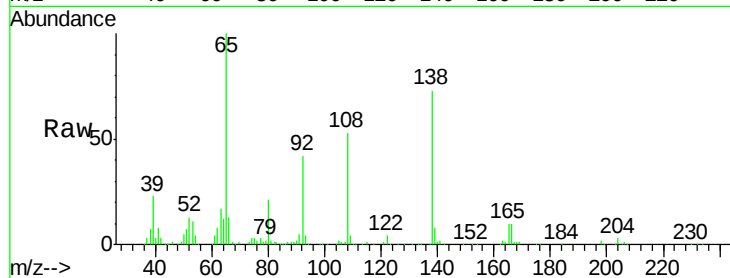
Tot Ion:138 Resp: 332740

Ion Ratio Lower Upper

138 100

92 57.0 12.6 52.6#

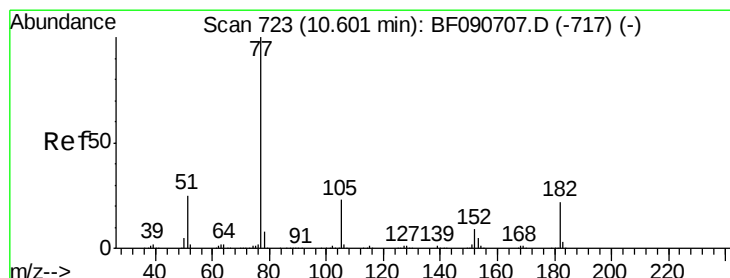
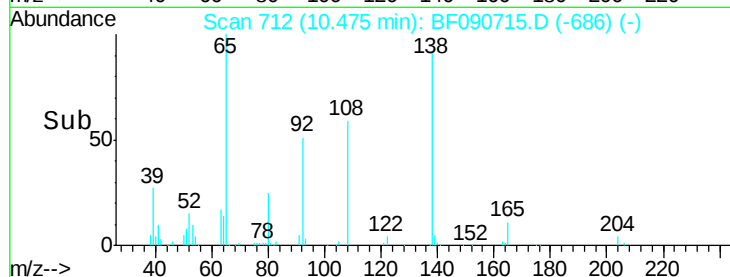
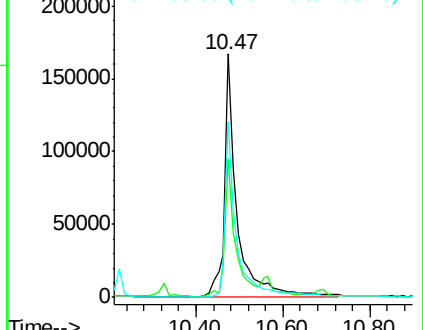
108 72.2 12.4 52.4#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 36.71 ng

RT: 10.60 min Scan# 723

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Tgt Ion: 77 Resp: 1783466

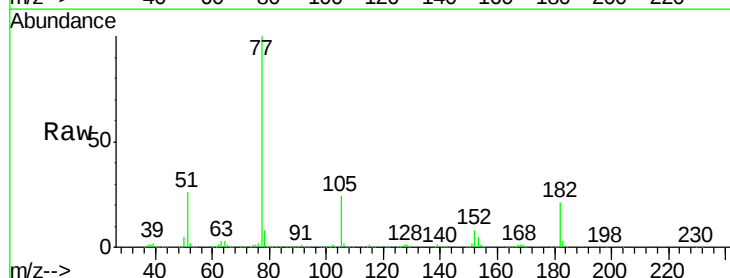
Ion Ratio Lower Upper

77 100

182 20.6 15.1 55.1

105 23.9 3.4 43.4

51 26.0 12.0 52.0

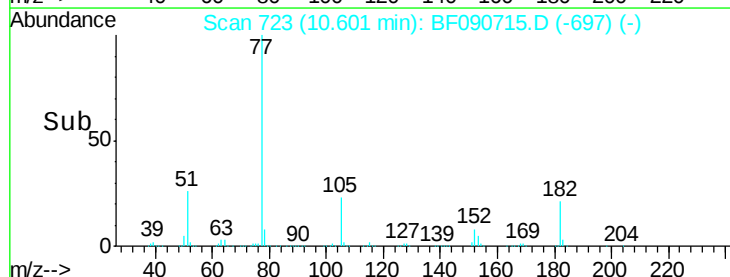
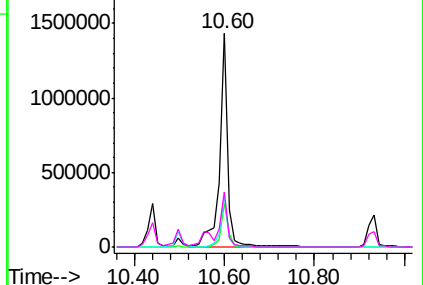


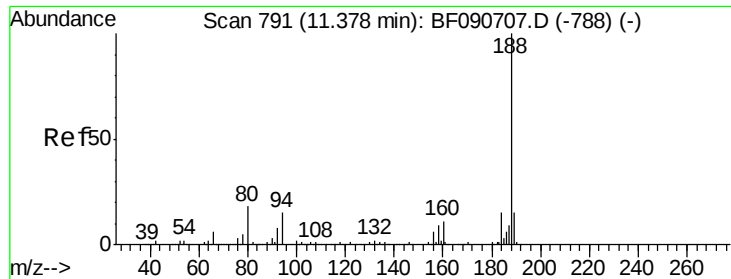
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0

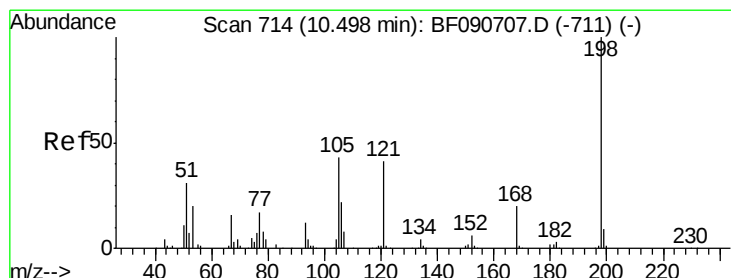
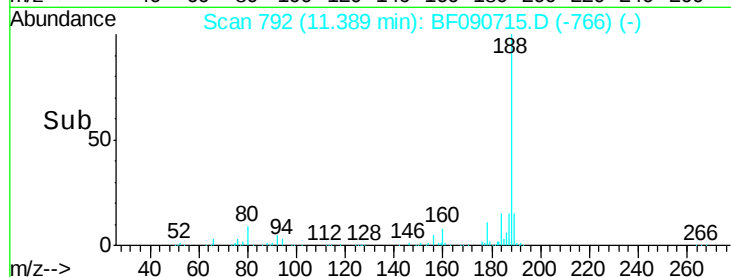
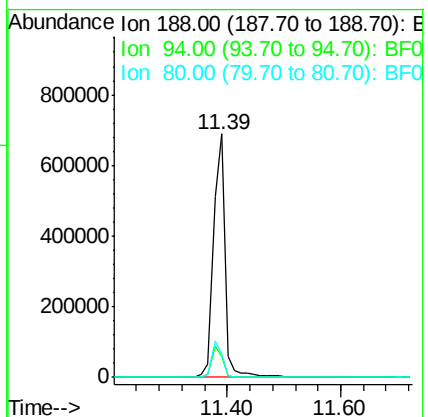
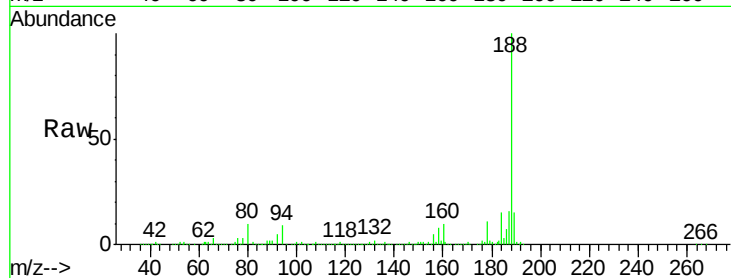




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 792  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

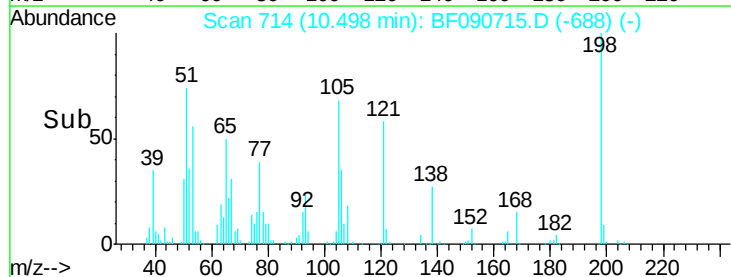
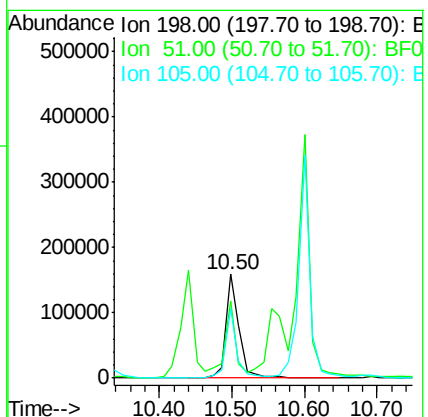
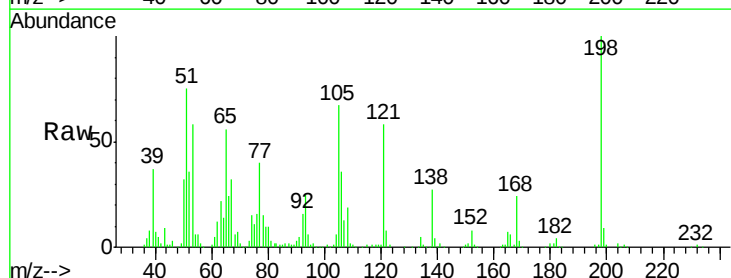
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

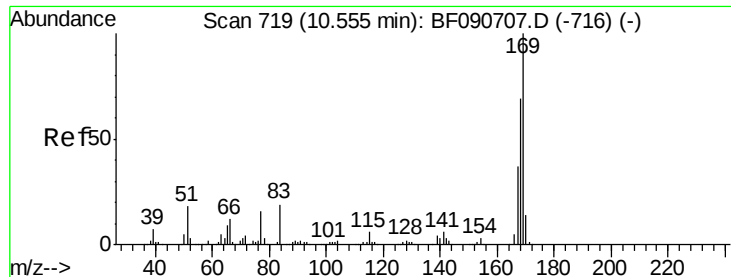
Tot Ion:188 Resp: 955683  
Ion Ratio Lower Upper  
188 100  
94 8.8 11.1 16.7#  
80 9.7 11.0 16.4#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 34.02 ng  
RT: 10.50 min Scan# 714  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:198 Resp: 199406  
Ion Ratio Lower Upper  
198 100  
51 74.6 39.6 79.6  
105 67.2 28.5 68.5

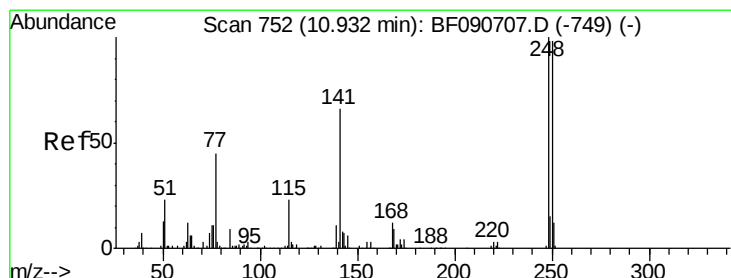
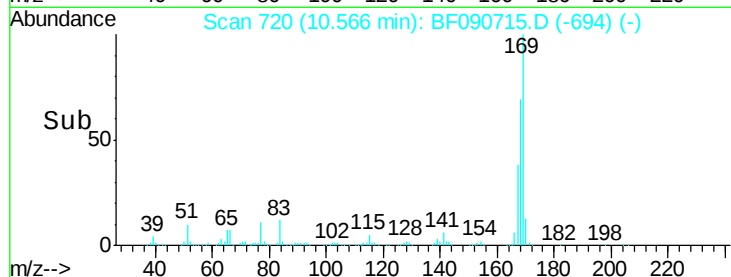
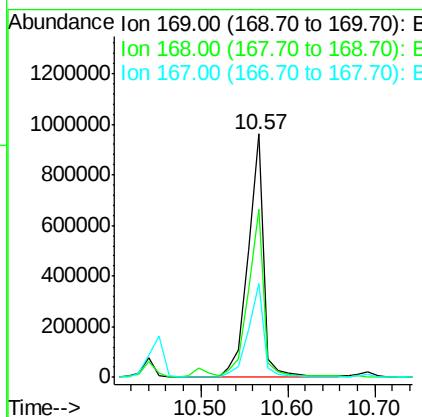
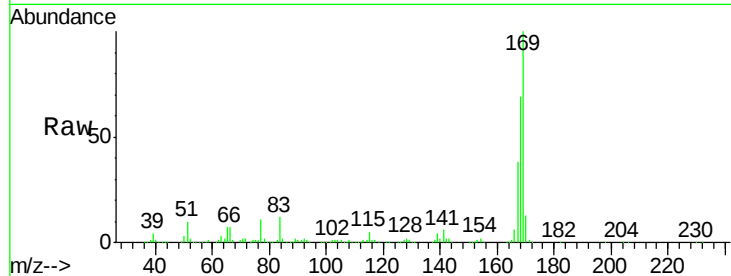




#65  
n-Nitrosodiphenylamine  
Concen: 39.34 ng  
RT: 10.57 min Scan# 720  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

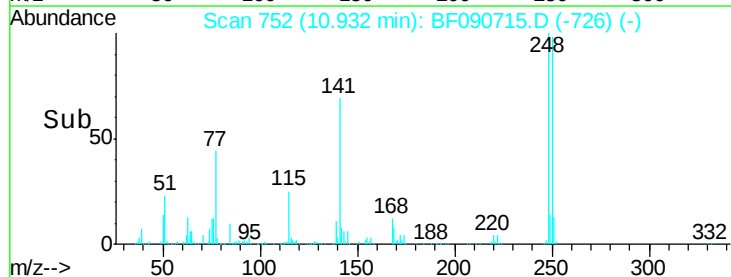
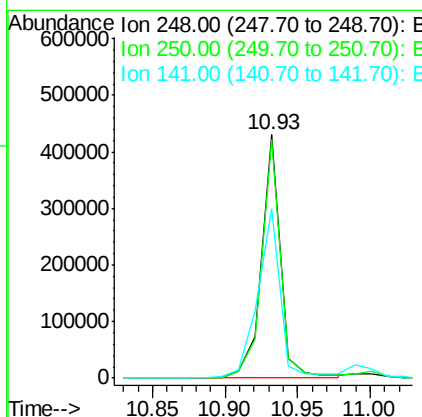
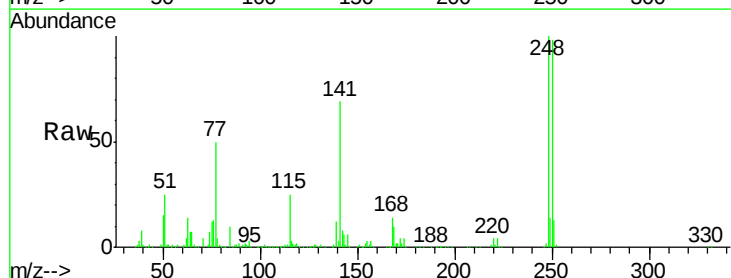
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

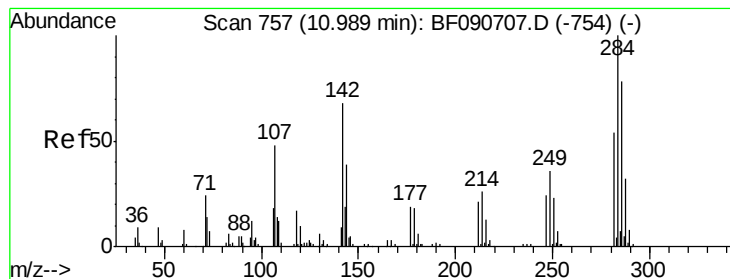
Tot Ion:169 Resp: 1204582  
Ion Ratio Lower Upper  
169 100  
168 69.3 48.9 73.3  
167 38.5 26.2 39.4



#66  
4-Bromophenyl-phenylether  
Concen: 42.32 ng  
RT: 10.93 min Scan# 752  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:248 Resp: 392122  
Ion Ratio Lower Upper  
248 100  
250 97.8 78.5 117.7  
141 69.4 59.0 88.6





#67

Hexachlorobenzene

Concen: 40.79 ng

RT: 11.00 min Scan# 758

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

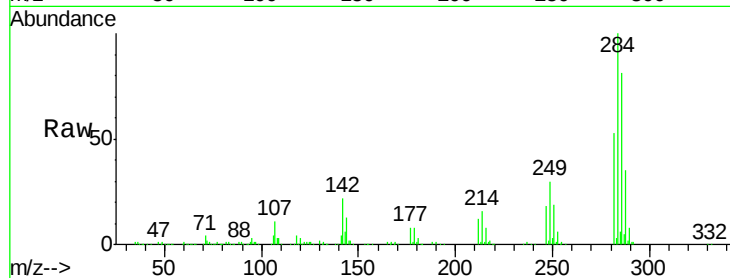
Tot Ion:284 Resp: 446001

Ion Ratio Lower Upper

284 100

142 21.7 29.5 44.3#

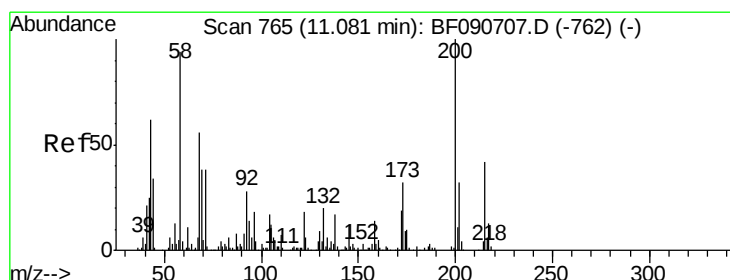
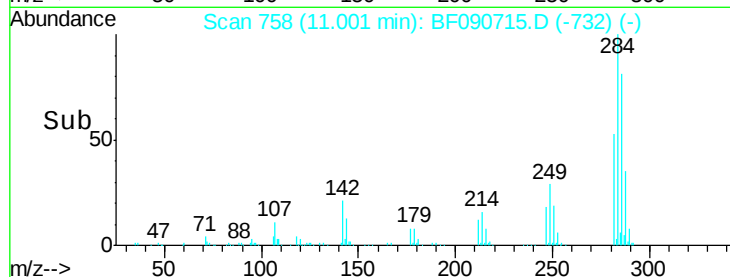
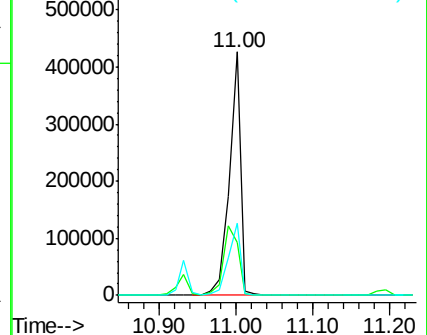
249 29.6 19.5 29.3#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 43.76 ng

RT: 11.09 min Scan# 766

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

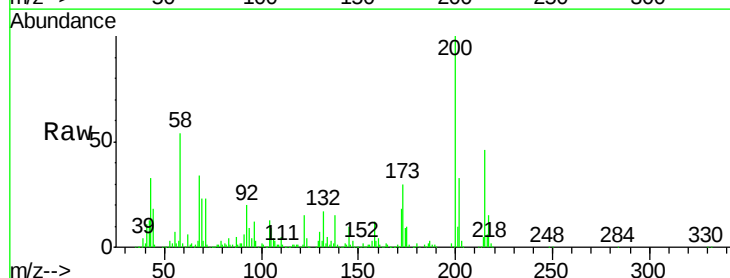
Tgt Ion:200 Resp: 369805

Ion Ratio Lower Upper

200 100

173 30.1 13.2 53.2

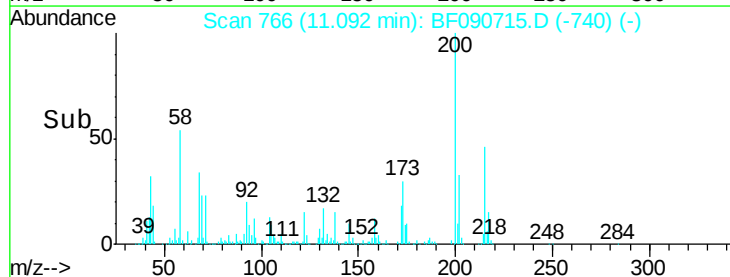
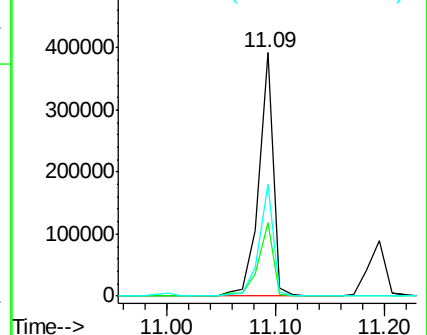
215 45.7 41.8 81.8

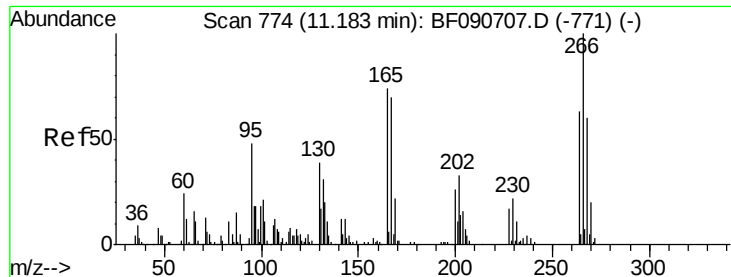


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

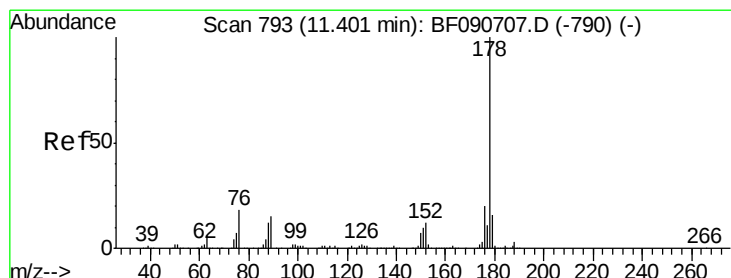
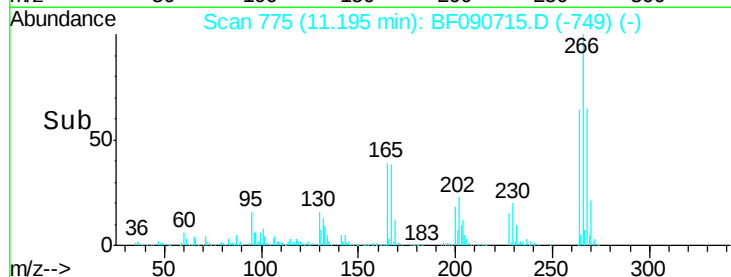
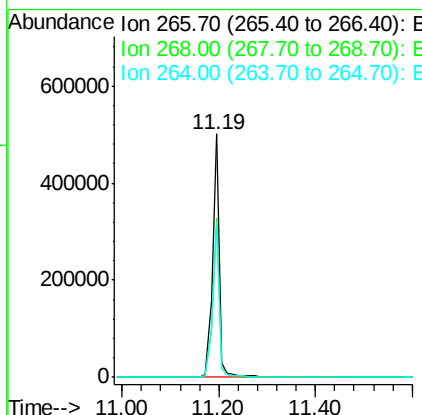
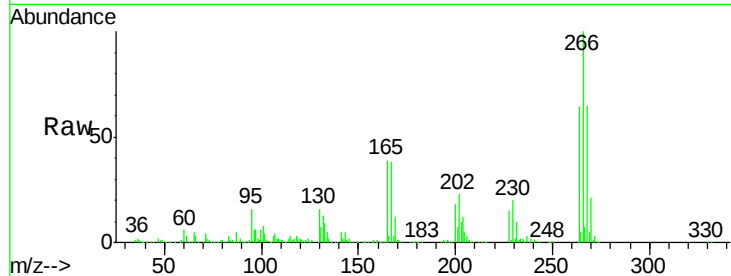




#69  
 Pentachlorophenol  
 Concen: 75.01 ng  
 RT: 11.19 min Scan# 775  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

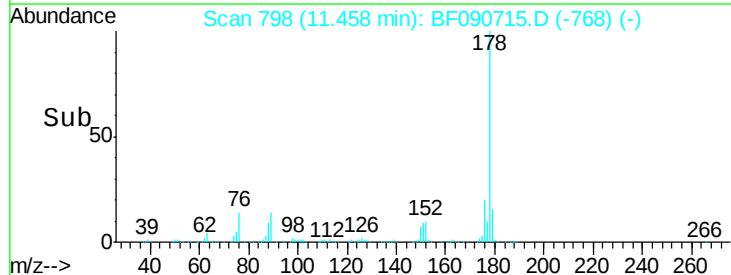
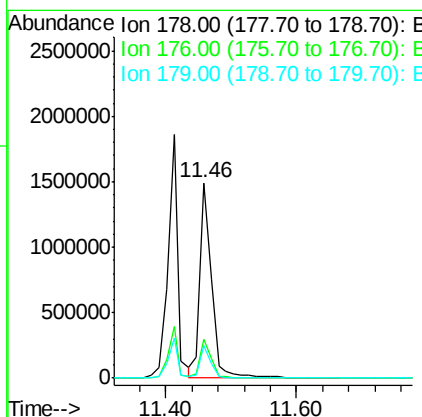
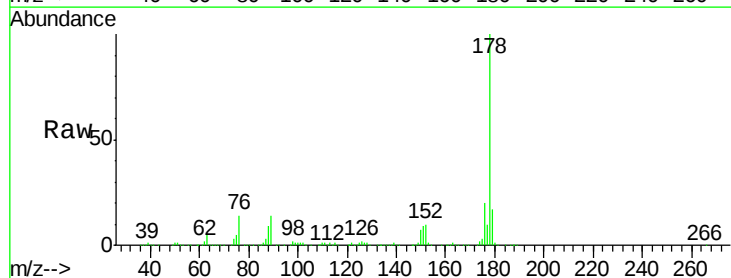
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

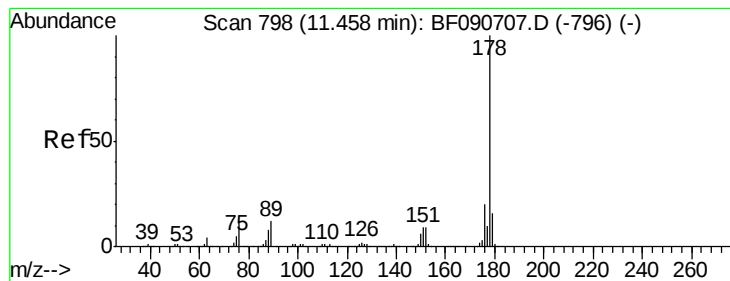
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 65.1  | 49.8  | 74.6  |
| 264     | 64.0  | 50.2  | 75.2  |



#70  
 Phenanthrene  
 Concen: 37.77 ng  
 RT: 11.46 min Scan# 798  
 Delta R.T. 0.05 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.1  | 13.8  | 20.8  |
| 179     | 16.5  | 12.2  | 18.2  |





#71

Anthracene

Concen: 34.29 ng

RT: 11.46 min Scan# 798

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

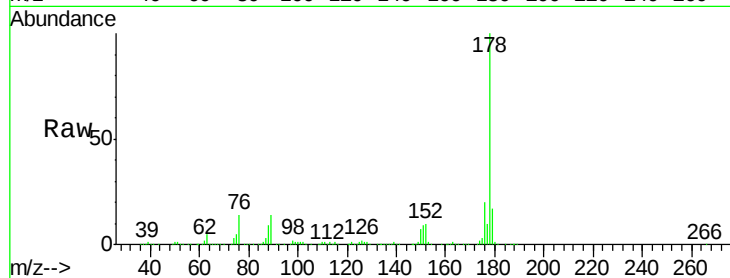
Tot Ion:178 Resp: 1852356

Ion Ratio Lower Upper

178 100

176 20.1 14.1 21.1

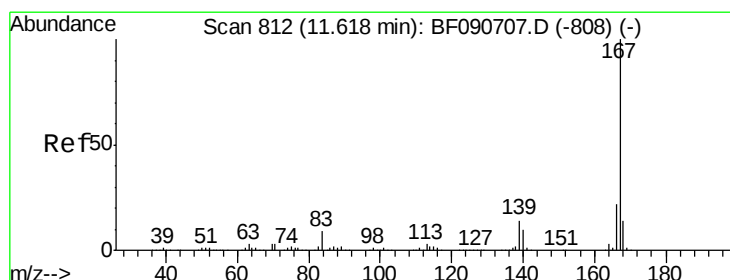
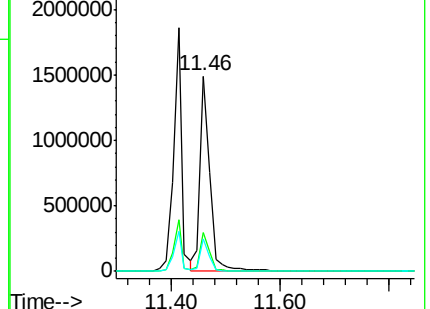
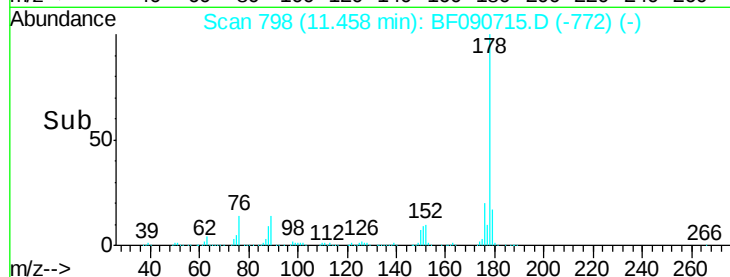
179 16.5 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 38.52 ng

RT: 11.62 min Scan# 812

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

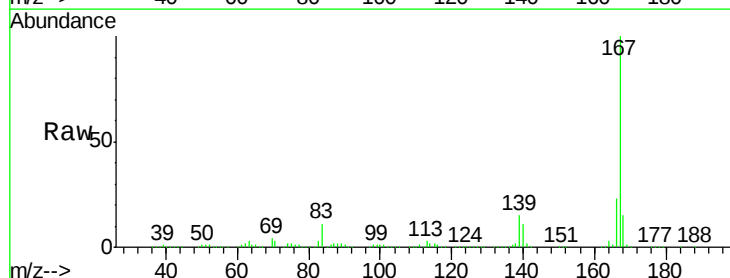
Tgt Ion:167 Resp: 1739890

Ion Ratio Lower Upper

167 100

166 22.8 15.7 23.5

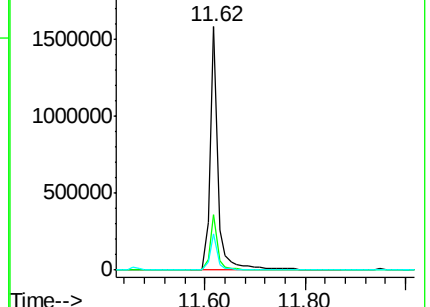
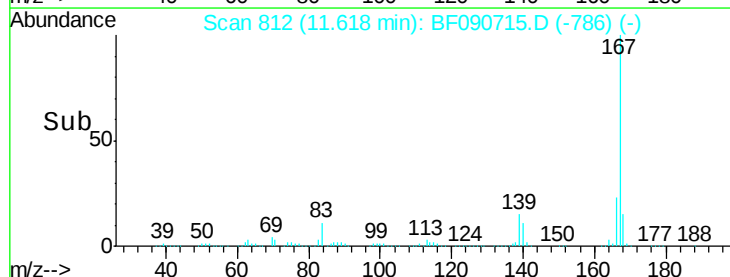
139 14.9 9.5 14.3#

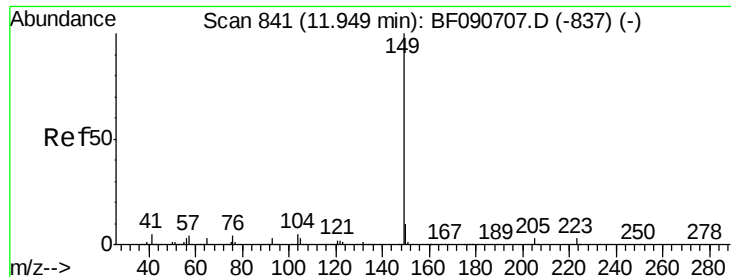


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 37.70 ng

RT: 11.95 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

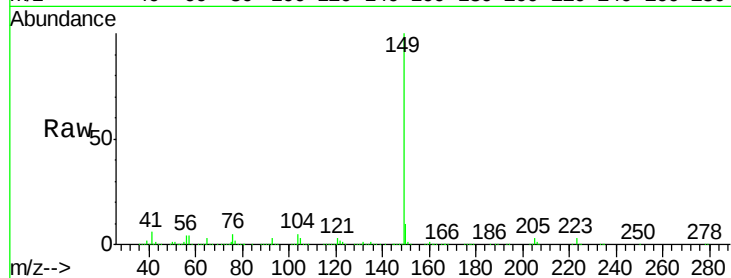
Tot Ion:149 Resp: 2208987

Ion Ratio Lower Upper

149 100

150 10.4 7.4 11.2

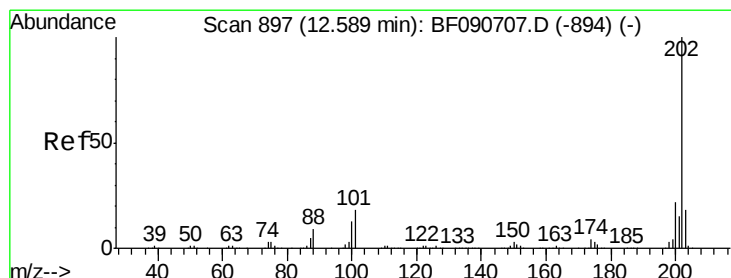
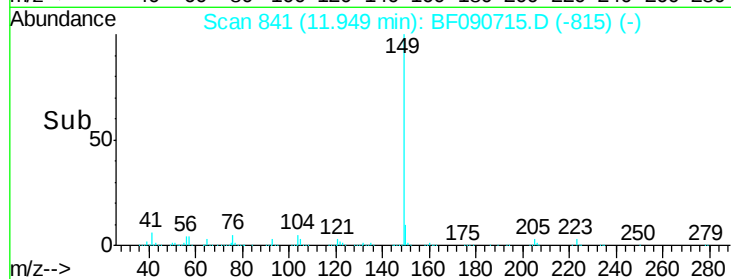
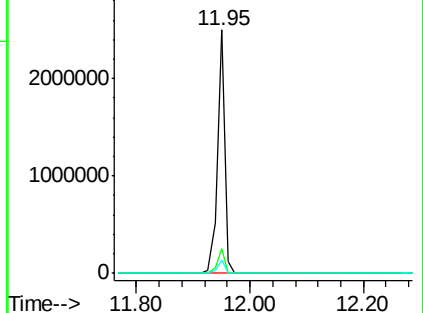
104 5.4 2.4 3.6#



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: 39.16 ng

RT: 12.60 min Scan# 898

Delta R.T. 0.01 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

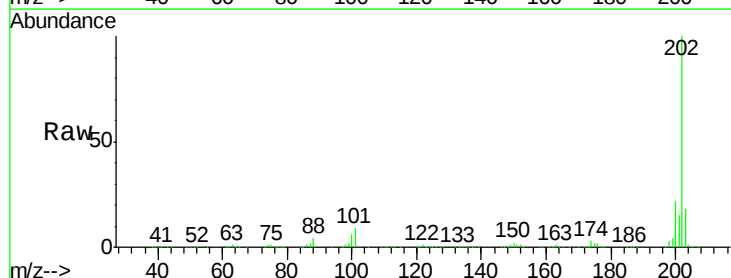
Tgt Ion:202 Resp: 1845517

Ion Ratio Lower Upper

202 100

101 8.7 0.0 38.3

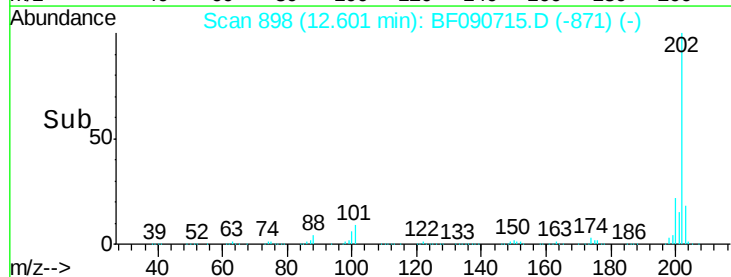
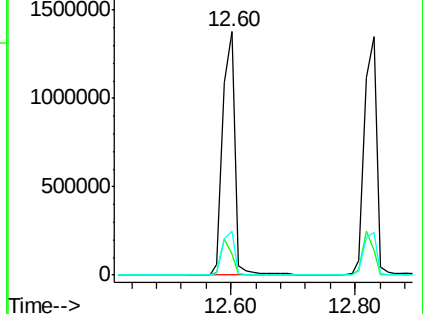
203 18.1 0.0 37.3

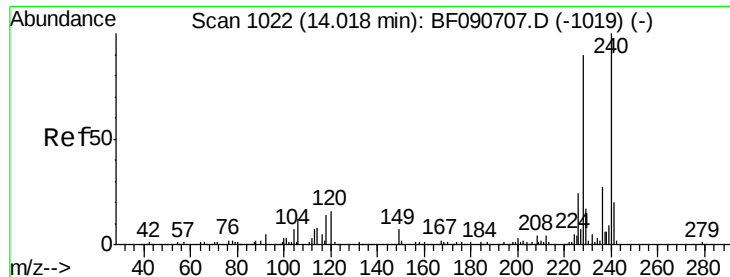


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 1023

Delta R.T. 0.01 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

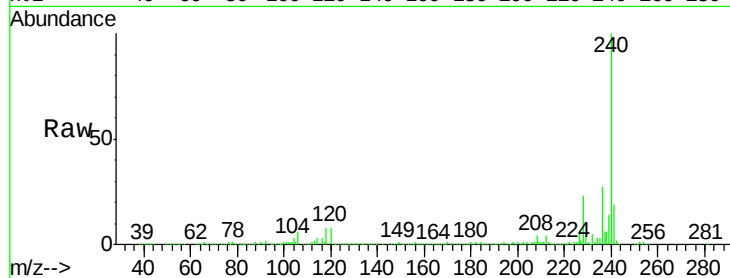
Tot Ion:240 Resp: 702364

Ion Ratio Lower Upper

240 100

120 8.4 16.2 24.2#

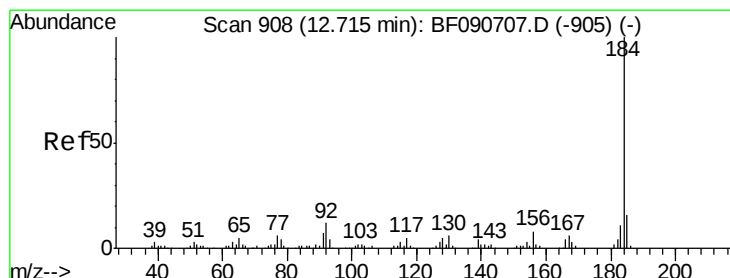
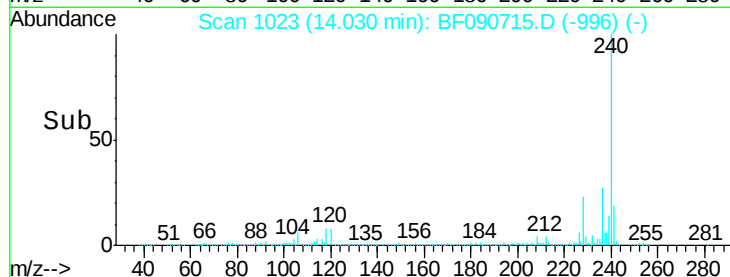
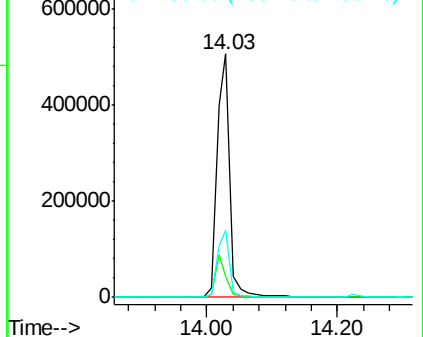
236 27.4 18.4 27.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 35.96 ng

RT: 12.72 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

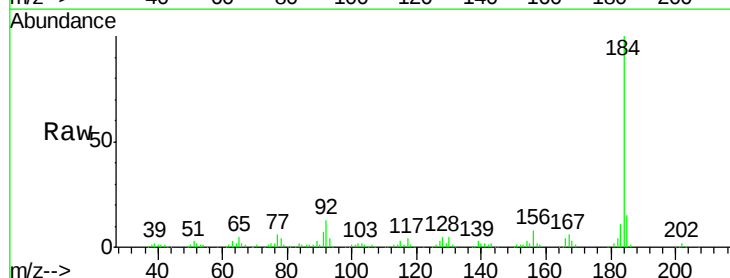
Tgt Ion:184 Resp: 560819

Ion Ratio Lower Upper

184 100

185 15.2 11.8 17.6

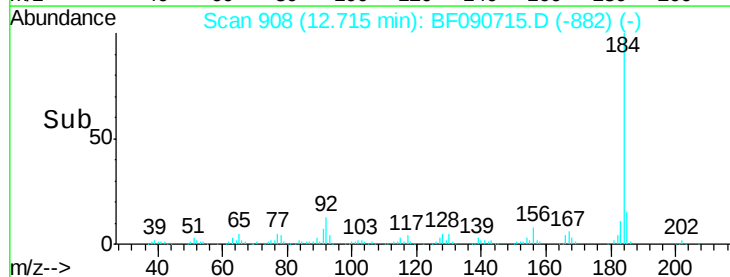
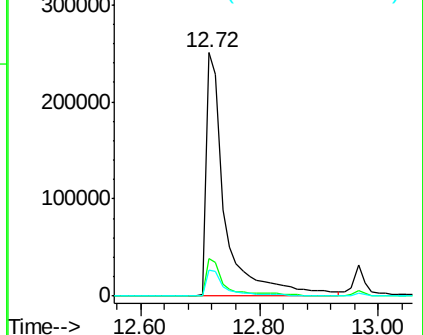
183 10.9 7.6 11.4

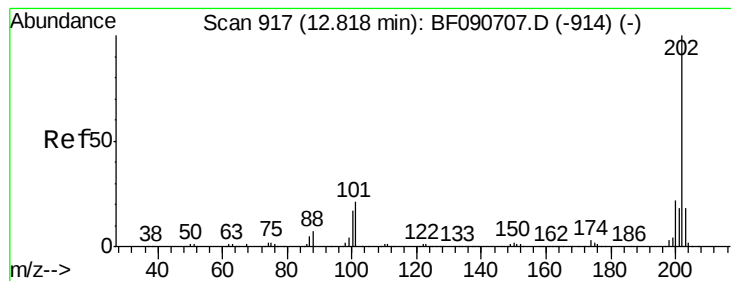


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 37.00 ng

RT: 12.83 min Scan# 918

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

Instrument :

BNA\_F

ClientSampleId :

PB94239BS

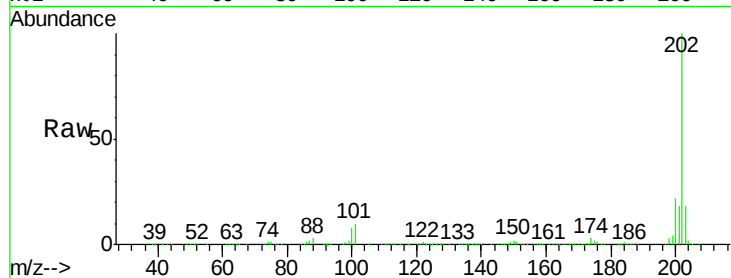
Tot Ion:202 Resp: 1815118

Ion Ratio Lower Upper

202 100

200 22.4 15.0 22.4

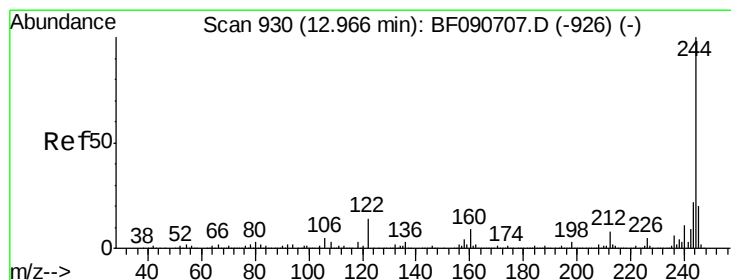
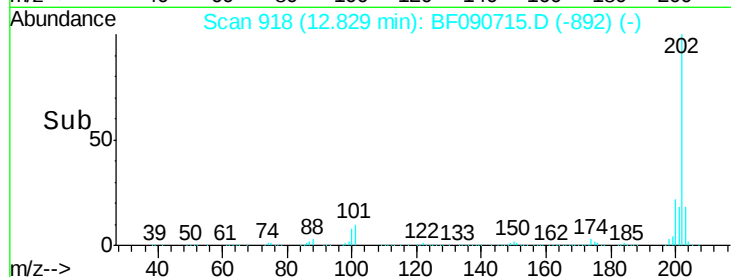
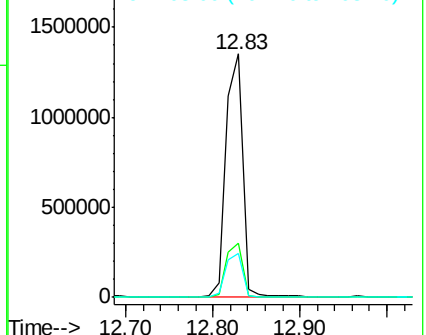
203 18.1 14.1 21.1



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: 73.58 ng

RT: 12.97 min Scan# 930

Delta R.T. 0.00 min

Lab File: BF090715.D

Acq: 21 Oct 2016 16:13

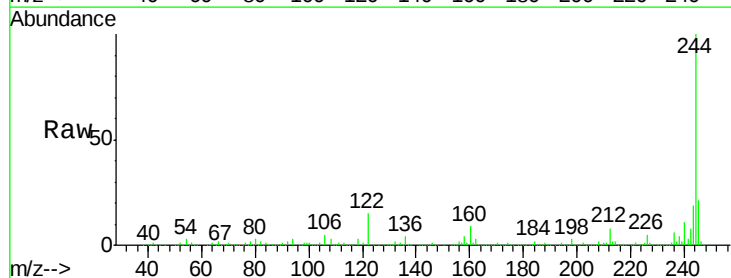
Tgt Ion:244 Resp: 2254891

Ion Ratio Lower Upper

244 100

212 8.0 4.3 6.5#

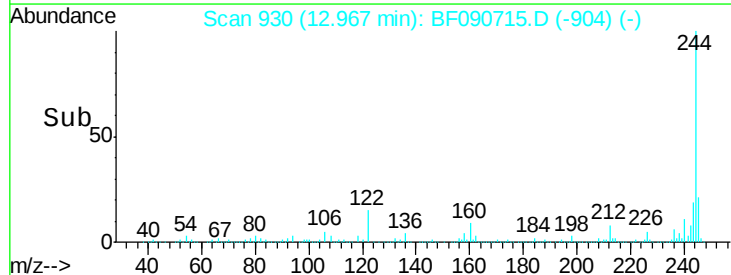
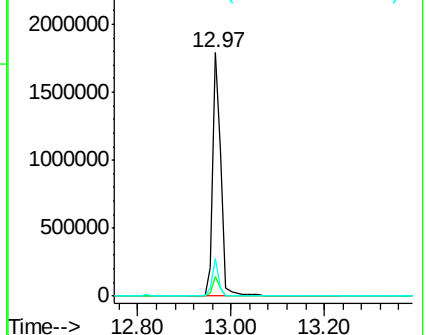
122 15.3 17.4 26.2#

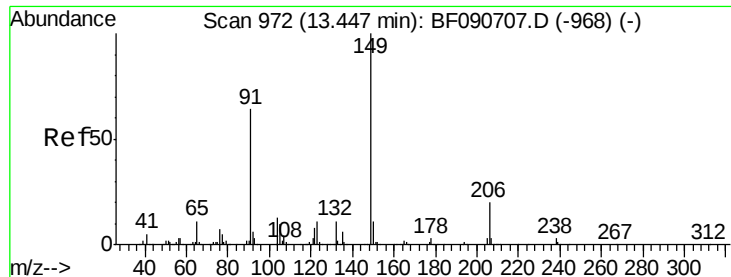


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

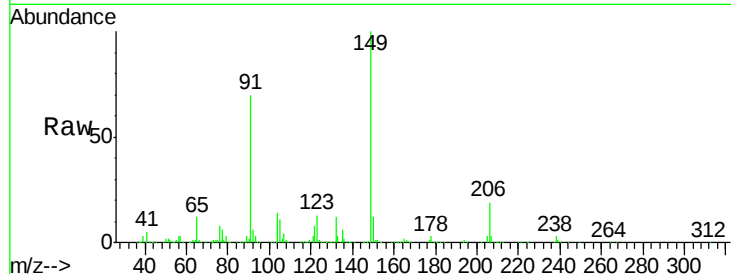




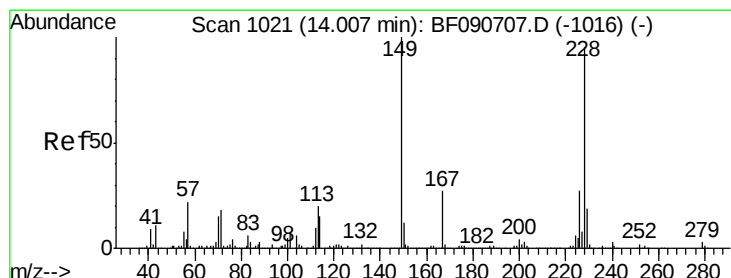
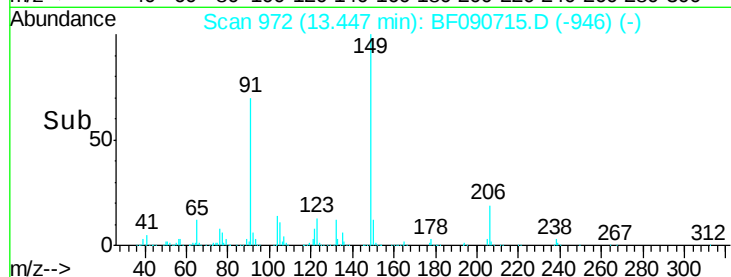
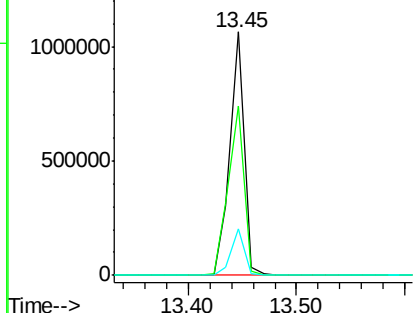
#79  
Butylbenzylphthalate  
Concen: 43.19 ng  
RT: 13.45 min Scan# 972  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Instrument :  
BNA\_F  
ClientSampled :  
PB94239BS

Tot Ion:149 Resp: 973914  
Ion Ratio Lower Upper  
149 100  
91 69.6 48.6 72.8  
206 19.1 14.9 22.3

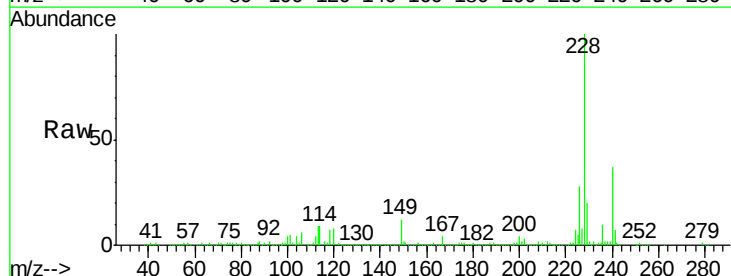


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BF0  
Ion 206.00 (205.70 to 206.70): E

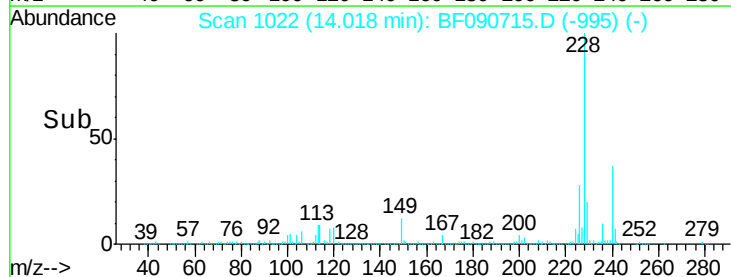
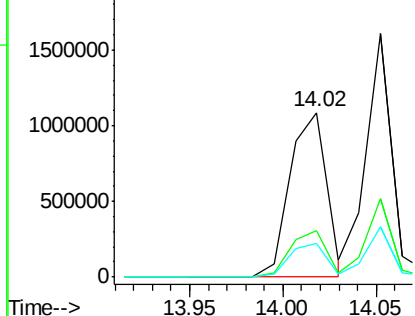


#80  
Benzo(a)anthracene  
Concen: 39.10 ng  
RT: 14.02 min Scan# 1022  
Delta R.T. 0.01 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:228 Resp: 1503047  
Ion Ratio Lower Upper  
228 100  
226 28.3 20.0 30.0  
229 20.2 15.4 23.2



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

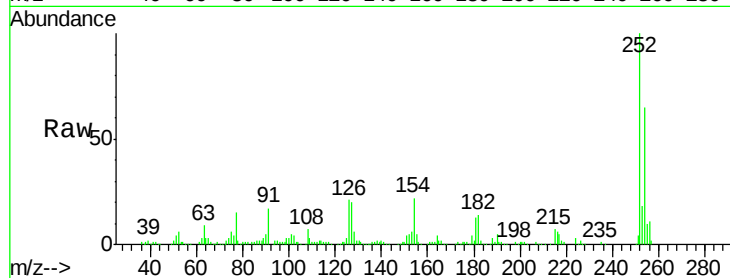




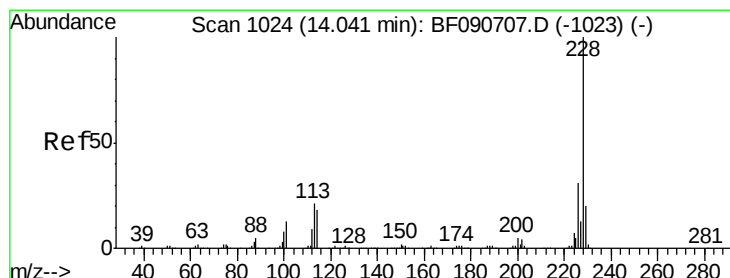
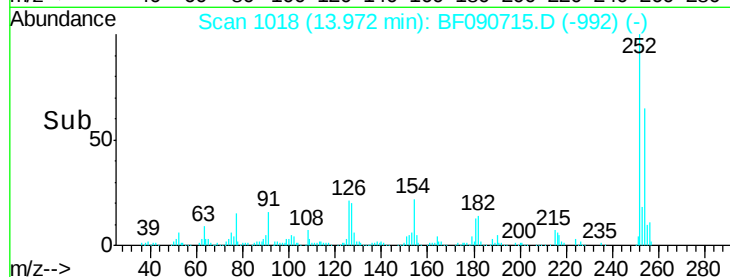
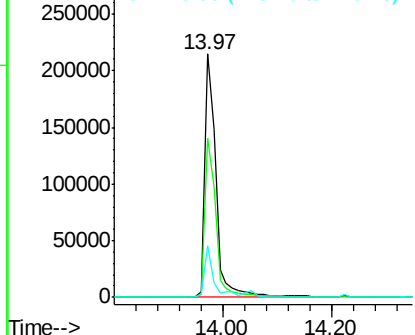
#81  
 3,3'-Dichlorobenzidine  
 Concen: 22.89 ng  
 RT: 13.97 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 65.5  | 51.4  | 77.2  |
| 126     | 21.0  | 16.4  | 24.6  |

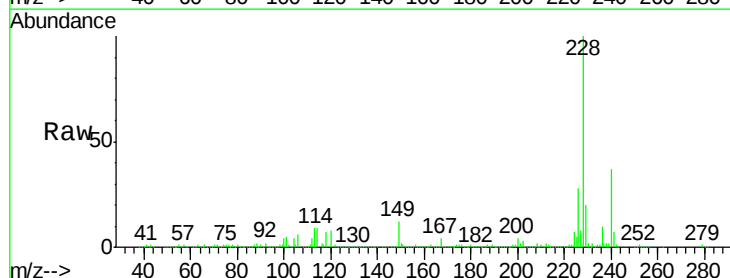


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

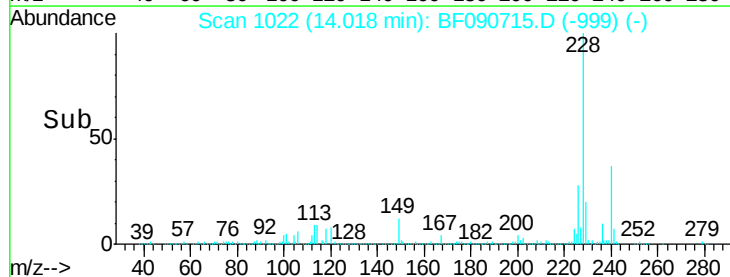
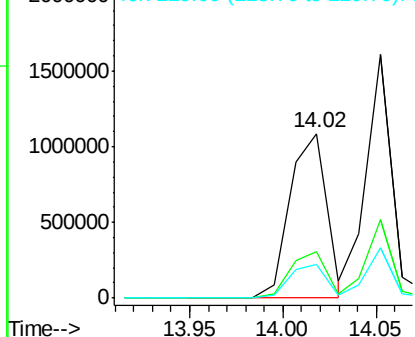


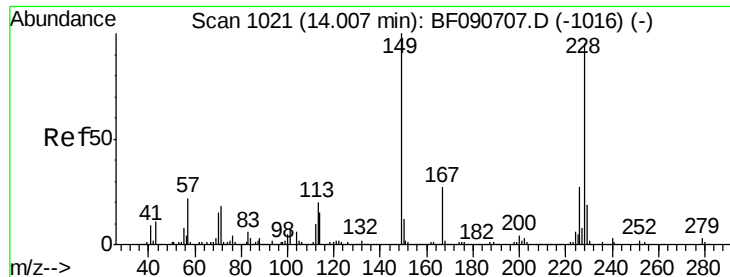
#82  
 Chrysene  
 Concen: 40.07 ng  
 RT: 14.02 min Scan# 1022  
 Delta R.T. -0.03 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 21.0  | 31.4  |
| 229     | 20.2  | 15.6  | 23.4  |



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

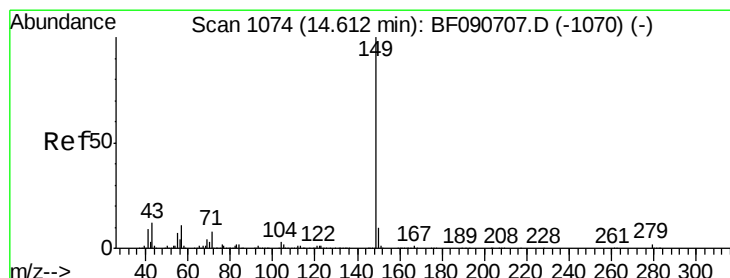
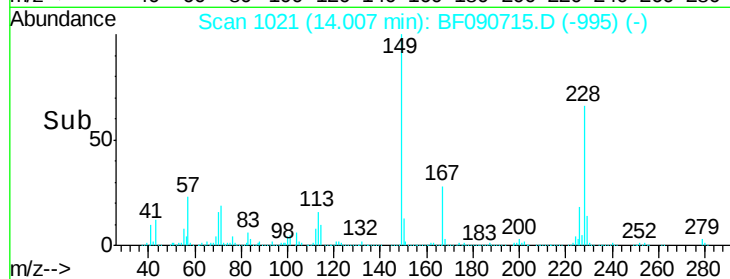
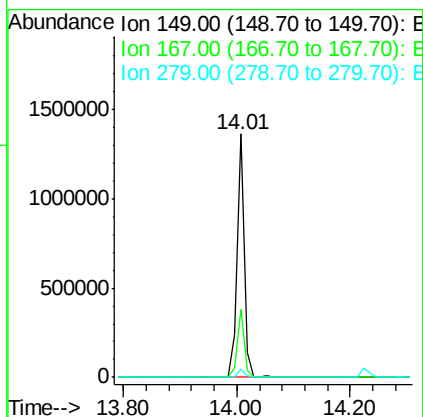
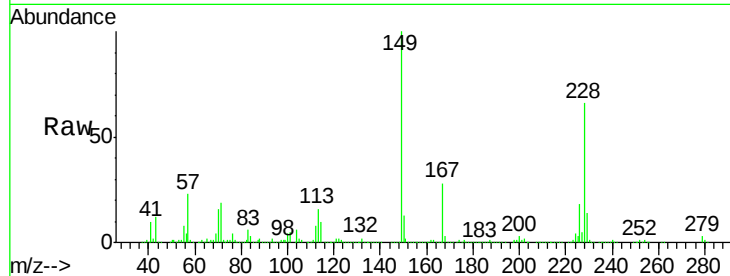




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 37.66 ng  
 RT: 14.01 min Scan# 1021  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

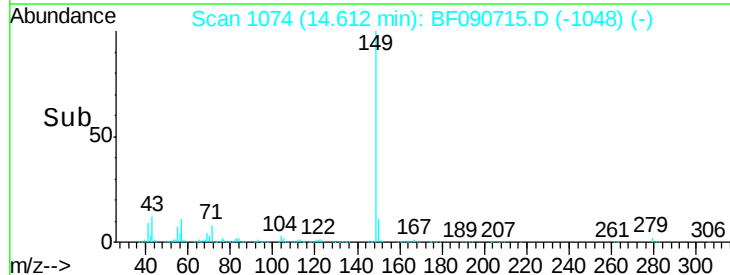
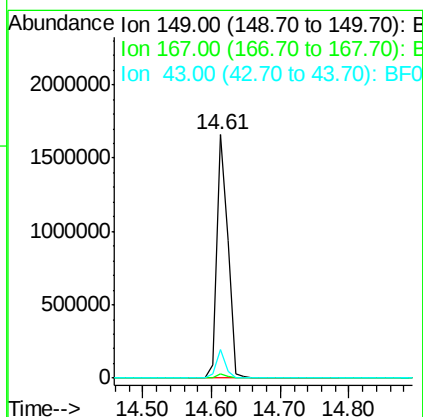
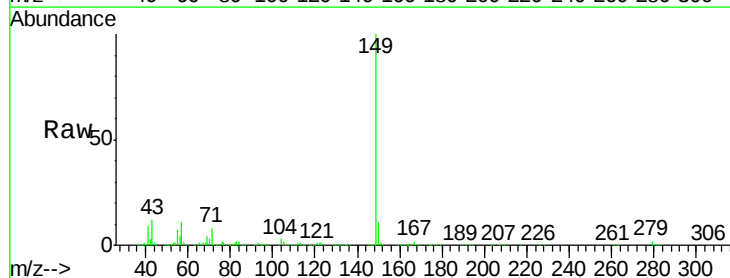
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

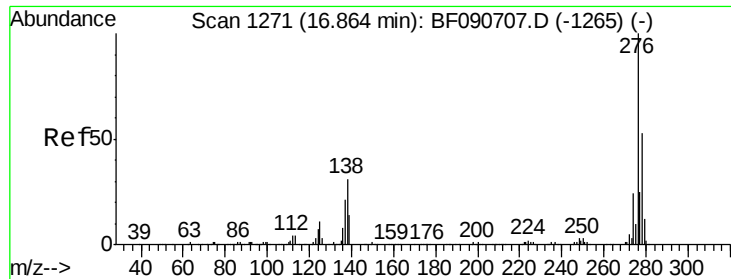
Tot Ion:149 Resp: 1214869  
 Ion Ratio Lower Upper  
 149 100  
 167 27.9 24.2 36.2  
 279 3.3 3.8 5.6#



#84  
 Di-n-octyl phthalate  
 Concen: 38.31 ng  
 RT: 14.61 min Scan# 1074  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Tgt Ion:149 Resp: 1875714  
 Ion Ratio Lower Upper  
 149 100  
 167 1.6 1.0 1.6#  
 43 9.8 10.2 15.2#

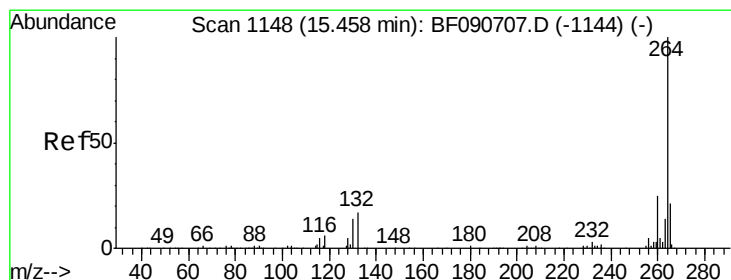
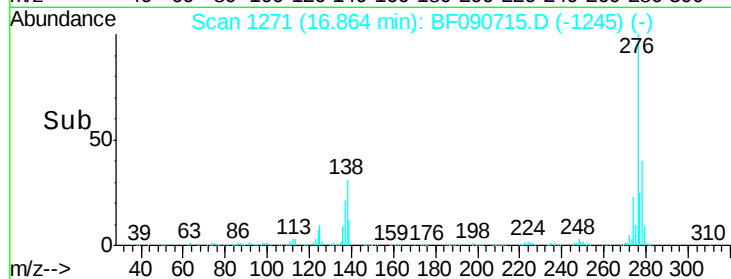
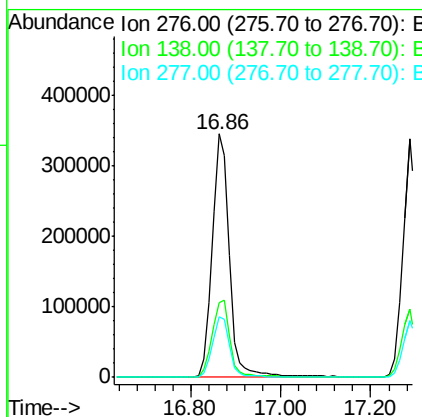
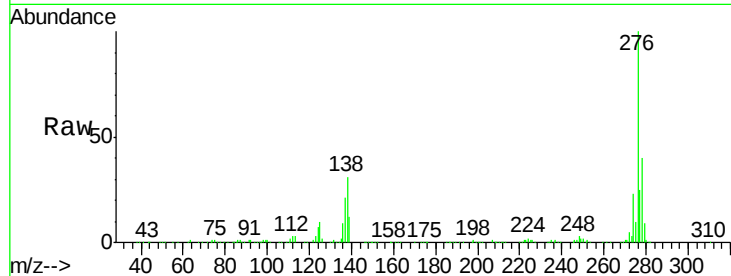




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 28.19 ng  
 RT: 16.86 min Scan# 1271  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

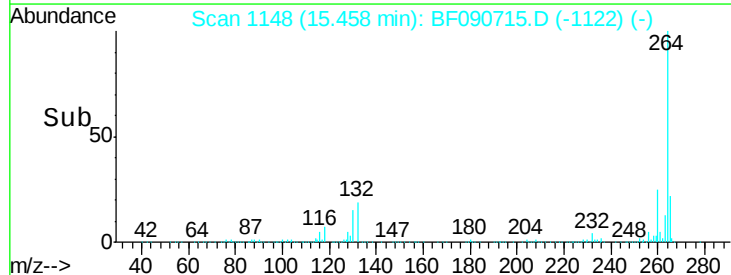
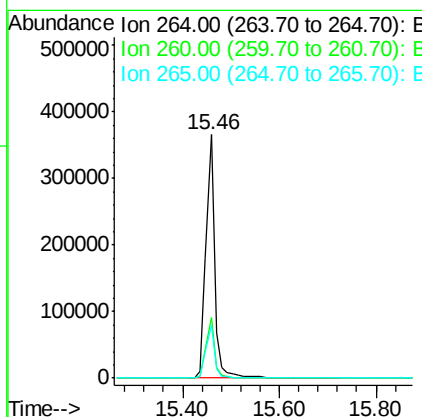
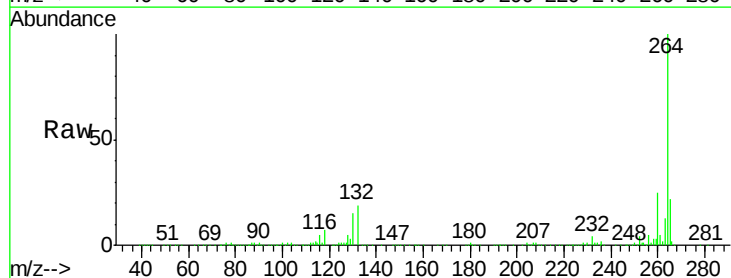
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

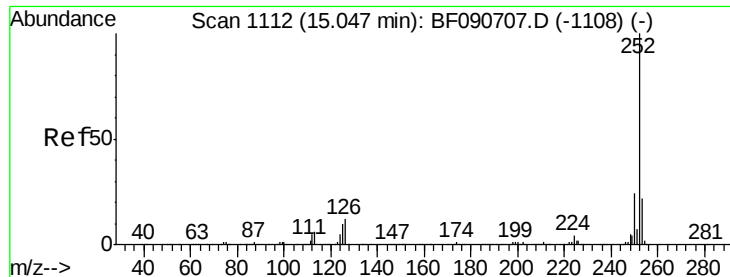
Tot Ion:276 Resp: 922690  
 Ion Ratio Lower Upper  
 276 100  
 138 33.4 25.7 38.5  
 277 25.4 15.6 23.4#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.46 min Scan# 1148  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Tgt Ion:264 Resp: 466885  
 Ion Ratio Lower Upper  
 264 100  
 260 24.6 16.7 25.1  
 265 21.5 17.2 25.8

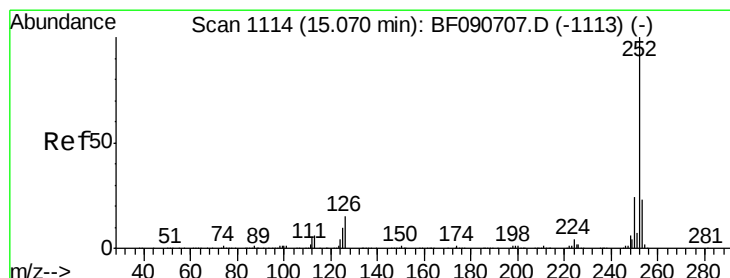
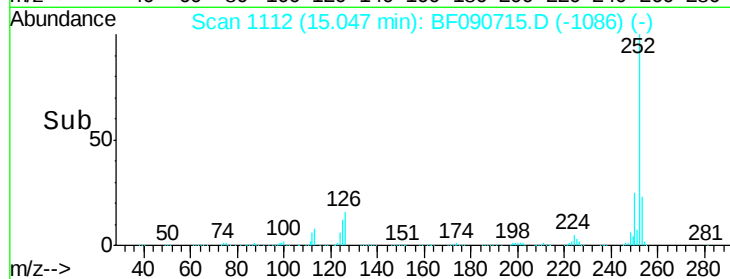
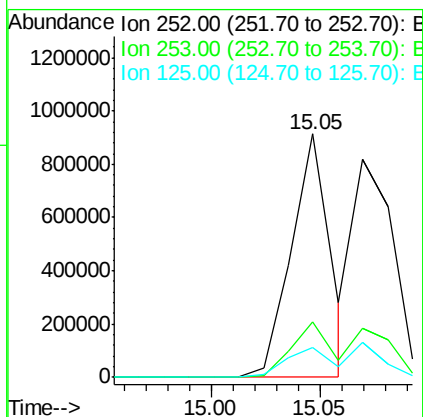
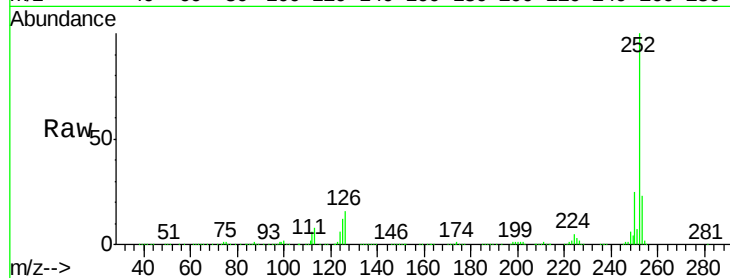




#87  
Benzo(b)fluoranthene  
Concen: 39.37 ng  
RT: 15.05 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

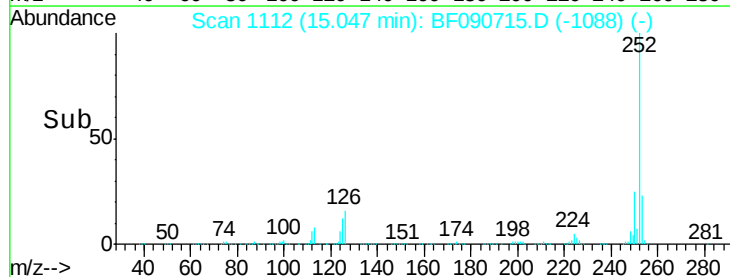
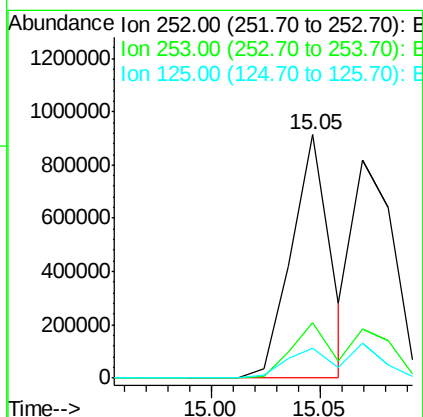
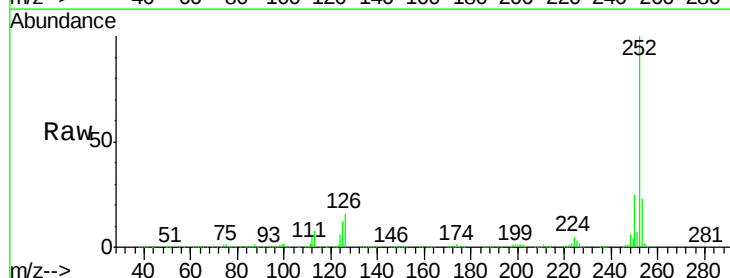
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

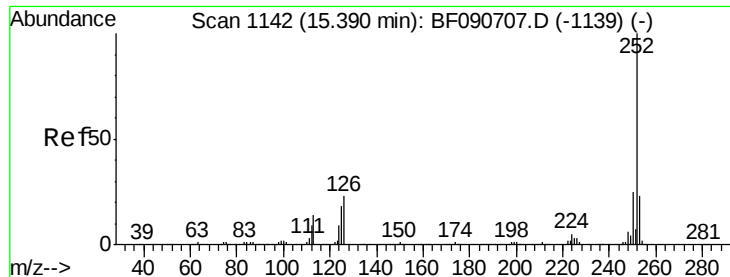
Tot Ion:252 Resp: 1130313  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.5 26.3  
125 12.0 17.1 25.7#



#88  
Benzo(k)fluoranthene  
Concen: 39.18 ng  
RT: 15.05 min Scan# 1112  
Delta R.T. -0.02 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:252 Resp: 1130313  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.0 25.4  
125 12.0 16.0 24.0#

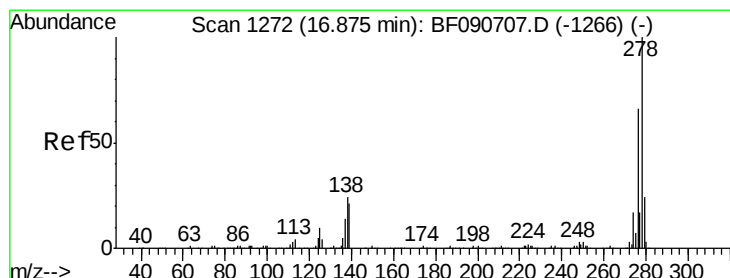
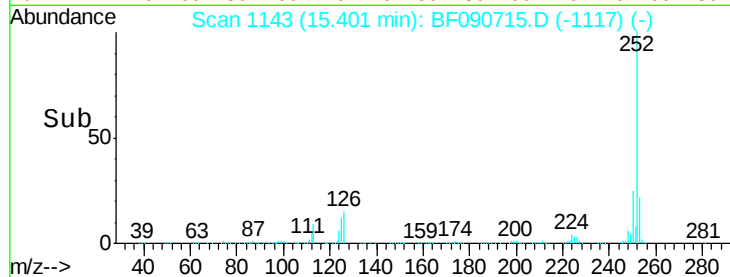
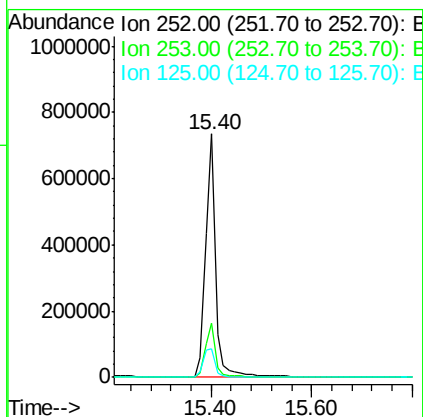
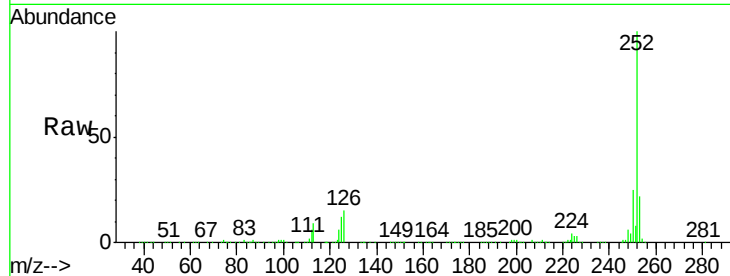




#89  
Benzo(a)pyrene  
Concen: 37.35 ng  
RT: 15.40 min Scan# 1143  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

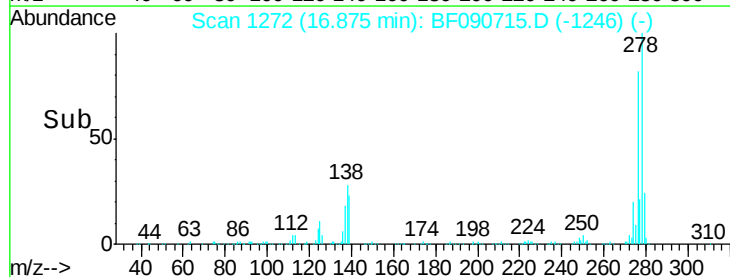
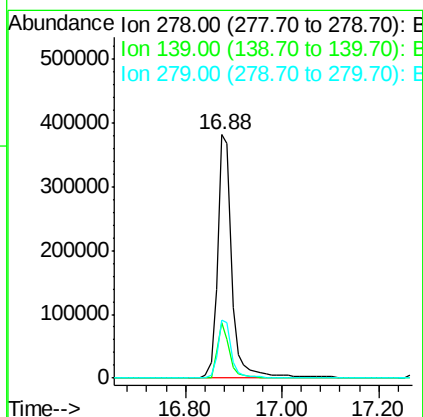
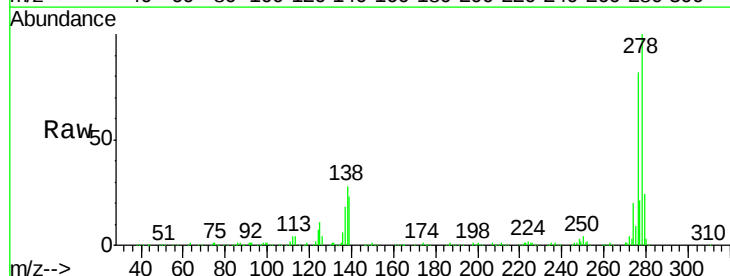
Instrument :  
BNA\_F  
ClientSampleId :  
PB94239BS

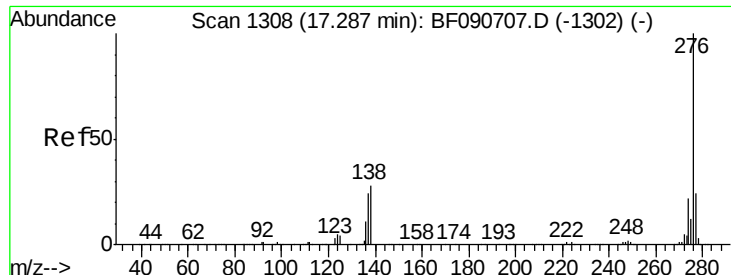
Tot Ion:252 Resp: 1006121  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.2 25.8  
125 12.0 18.0 27.0#



#90  
Dibenzo(a,h)anthracene  
Concen: 30.87 ng  
RT: 16.88 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: BF090715.D  
Acq: 21 Oct 2016 16:13

Tgt Ion:278 Resp: 798454  
Ion Ratio Lower Upper  
278 100  
139 22.7 26.3 39.5#  
279 24.1 18.2 27.4





#91  
 Benzo(a,h,i)perylene  
 Concen: 29.09 ng  
 RT: 17.29 min Scan# 1308  
 Delta R.T. 0.00 min  
 Lab File: BF090715.D  
 Acq: 21 Oct 2016 16:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94239BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.7  | 17.8  | 26.6  |
| 138     | 28.7  | 34.6  | 51.8  |

