

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\  
 Data File : BF099200.D  
 Acq On : 7 Oct 2017 18:00  
 Operator : SJ/JU  
 Sample : I5678-01MSD 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Quant Time: Oct 08 04:44:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Oct 08 03:54:40 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 121967   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 461055   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 176625   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 264811   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.03 | 240  | 217870   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.51 | 264  | 173506   | 20.00 | ng    | 0.01     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.48  | 112 | 216949 | 28.32 | ng | 0.00 |
| 7) Phenol-d6             | 6.49  | 99  | 249717 | 26.42 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 137553 | 19.13 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.69 | 330 | 34880  | 24.13 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.22  | 172 | 262019 | 24.77 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.97 | 244 | 183342 | 19.14 | ng | 0.00 |

## Target Compounds

|                                |      |     |        |        |    | Qvalue |
|--------------------------------|------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.64 | 88  | 24271  | 6.632  | ng | 99     |
| 3) Pyridine                    | 3.46 | 79  | 64419  | 6.506  | ng | 98     |
| 4) n-Nitrosodimethylamine      | 3.36 | 42  | 29955  | 7.135  | ng | 89     |
| 6) Aniline                     | 6.53 | 93  | 63195  | 4.954  | ng | 96     |
| 8) 2-Chlorophenol              | 6.65 | 128 | 74963  | 8.640  | ng | 95     |
| 9) Benzaldehyde                | 6.42 | 77  | 30405  | 5.546  | ng | 95     |
| 10) Phenol                     | 6.50 | 94  | 100793 | 9.535  | ng | 94     |
| 11) bis(2-Chloroethyl)ether    | 6.60 | 93  | 71274  | 8.673  | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 6.80 | 146 | 80859  | 8.899  | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.88 | 146 | 82371  | 8.910  | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 7.03 | 146 | 77831  | 9.111  | ng | 98     |
| 15) Benzyl Alcohol             | 7.00 | 79  | 57315  | 8.266  | ng | 94     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45  | 105625 | 8.250  | ng | 97     |
| 17) 2-Methylphenol             | 7.12 | 107 | 61135  | 8.611  | ng | 95     |
| 18) Hexachloroethane           | 7.37 | 117 | 19784  | 5.953  | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70  | 48936  | 8.109  | ng | 94     |
| 20) 3+4-Methylphenols          | 7.27 | 107 | 77562  | 8.636  | ng | # 59   |
| 22) Acetophenone               | 7.27 | 105 | 102621 | 9.187  | ng | # 96   |
| 24) Nitrobenzene               | 7.45 | 77  | 70719  | 8.671  | ng | 96     |
| 25) Isophorone                 | 7.68 | 82  | 128984 | 8.678  | ng | 100    |
| 26) 2-Nitrophenol              | 7.76 | 139 | 21782  | 5.554  | ng | 92     |
| 27) 2,4-Dimethylphenol         | 7.80 | 122 | 62547  | 8.445  | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.89 | 93  | 85220  | 9.200  | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.00 | 162 | 53984  | 8.490  | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 8.09 | 180 | 60027  | 9.438  | ng | 100    |
| 31) Naphthalene                | 8.17 | 128 | 219195 | 10.123 | ng | 100    |
| 33) 4-Chloroaniline            | 8.22 | 127 | 57922  | 6.405  | ng | 96     |
| 34) Hexachlorobutadiene        | 8.28 | 225 | 29475  | 8.998  | ng | 97     |
| 35) Caprolactam                | 8.56 | 113 | 15479  | 7.589  | ng | # 85   |
| 36) 4-Chloro-3-methylphenol    | 8.69 | 107 | 53226  | 7.447  | ng | 98     |
| 37) 2-Methylnaphthalene        | 8.86 | 142 | 148997 | 10.585 | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.02 | 216 | 50178  | 9.526  | ng | 99     |
| 42) 2,4,6-Trichlorophenol      | 9.14 | 196 | 31015  | 8.311  | ng | 97     |
| 43) 2,4,5-Trichlorophenol      | 9.18 | 196 | 31929  | 8.571  | ng | 94     |

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 ALS Vial : 17 Sample Multiplier: 1

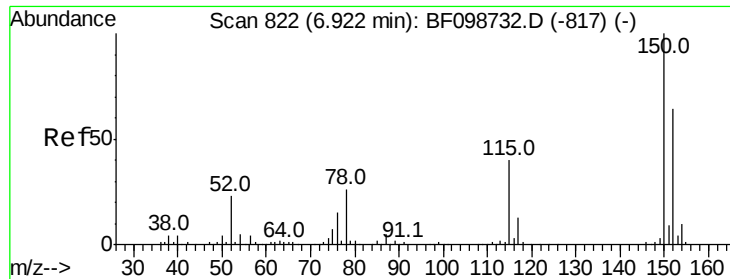
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Quant Time: Oct 08 04:44:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
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 QLast Update : Sun Oct 08 03:54:40 2017  
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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 45) 1,1'-Biphenyl              | 9.32  | 154  | 154512   | 10.179 | nq    | 97       |
| 46) 2-Chloronaphthalene        | 9.35  | 162  | 111968   | 9.824  | nq    | 97       |
| 47) 2-Nitroaniline             | 9.45  | 65   | 32271    | 9.247  | nq    | 92       |
| 48) Acenaphthylene             | 9.76  | 152  | 182717   | 10.472 | nq    | 99       |
| 49) Dimethylphthalate          | 9.62  | 163  | 162339   | 12.178 | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.68  | 165  | 19820    | 6.829  | nq    | 99       |
| 51) Acenaphthene               | 9.93  | 154  | 116059   | 10.501 | nq    | 99       |
| 52) 3-Nitroaniline             | 9.85  | 138  | 31130    | 9.199  | nq    | # 98     |
| 54) Dibenzofuran               | 10.10 | 168  | 163261   | 11.095 | nq    | 100      |
| 55) 4-Nitrophenol              | 10.02 | 139  | 29775    | 10.406 | nq    | 89       |
| 56) 2,4-Dinitrotoluene         | 10.09 | 165  | 22751    | 6.040  | nq    | # 96     |
| 57) Fluorene                   | 10.45 | 166  | 141727   | 11.983 | nq    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.23 | 232  | 20308    | 7.892  | nq    | # 96     |
| 59) Diethylphthalate           | 10.32 | 149  | 120014   | 9.213  | nq    | 98       |
| 60) 4-Chlorophenyl-phenylether | 10.44 | 204  | 48742    | 9.174  | nq    | 99       |
| 61) 4-Nitroaniline             | 10.46 | 138  | 31480    | 9.643  | nq    | 87       |
| 62) Azobenzene                 | 10.60 | 77   | 98784    | 8.248  | nq    | 95       |
| 65) n-Nitrosodiphenylamine     | 10.56 | 169  | 94315    | 10.281 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 10.93 | 248  | 25661    | 9.900  | nq    | 99       |
| 67) Hexachlorobenzene          | 11.00 | 284  | 24623    | 8.894  | nq    | 96       |
| 68) Atrazine                   | 11.08 | 200  | 27137    | 9.832  | nq    | 99       |
| 69) Pentachlorophenol          | 11.19 | 266  | 17340    | 10.064 | nq    | 96       |
| 70) Phenanthrene               | 11.42 | 178  | 328652   | 23.186 | nq    | 99       |
| 71) Anthracene                 | 11.46 | 178  | 191408   | 13.198 | nq    | 98       |
| 72) Carbazole                  | 11.62 | 167  | 149715   | 10.541 | nq    | 98       |
| 73) Di-n-butylphthalate        | 11.94 | 149  | 166532   | 9.741  | nq    | 99       |
| 74) Fluoranthene               | 12.60 | 202  | 353647   | 24.639 | nq    | 99       |
| 76) Benzidine                  | 12.72 | 184  | 53670    | 6.660  | nq    | 96       |
| 77) Pvrene                     | 12.83 | 202  | 341643   | 20.564 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.44 | 149  | 67691    | 8.670  | nq    | 95       |
| 80) Benzo(a)anthracene         | 14.02 | 228  | 199786   | 15.144 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.98 | 252  | 43201    | 8.933  | nq    | 98       |
| 82) Chrysene                   | 14.06 | 228  | 194550   | 15.490 | nq    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 14.00 | 149  | 101462   | 9.437  | nq    | # 98     |
| 84) Di-n-octyl phthalate       | 14.61 | 149  | 174251   | 10.066 | nq    | # 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.99 | 276  | 109477   | 10.896 | nq    | 97       |
| 87) Benzo(b)fluoranthene       | 15.07 | 252  | 168867   | 15.830 | nq    | # 95     |
| 88) Benzo(k)fluoranthene       | 15.10 | 252  | 131022   | 12.435 | nq    | 99       |
| 89) Benzo(a)pyrene             | 15.44 | 252  | 146478   | 14.958 | nq    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 17.00 | 278  | 74283    | 9.479  | nq    | # 92     |
| 91) Benzo(g,h,i)perylene       | 17.44 | 276  | 95092    | 12.276 | nq    | 95       |

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



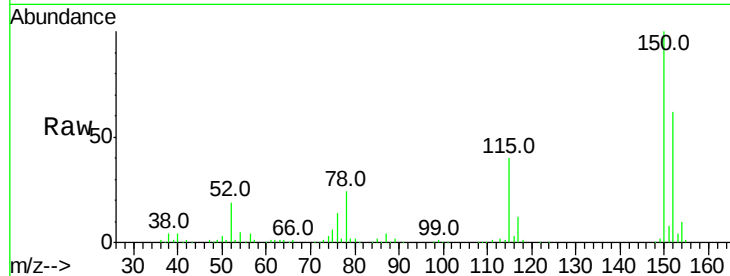


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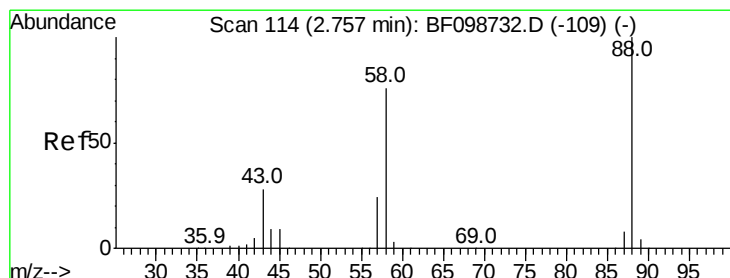
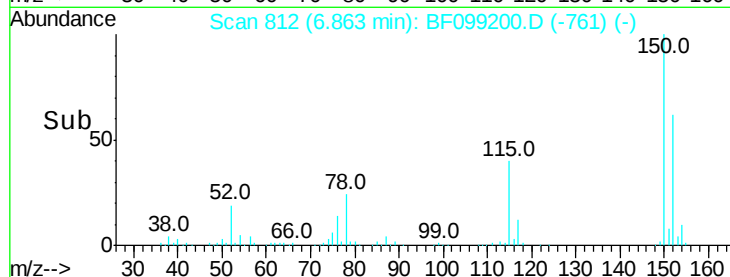
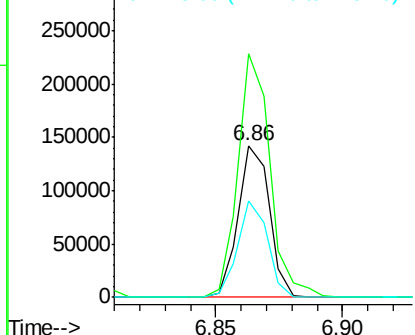
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

Tot Ion:152 Resp: 121967  
Ion Ratio Lower Upper  
152 100  
150 160.5 124.6 186.8  
115 63.5 50.1 75.1



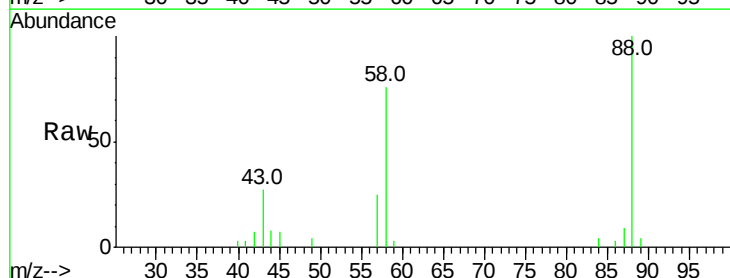
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



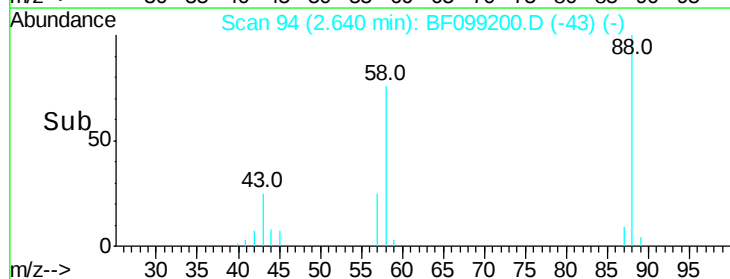
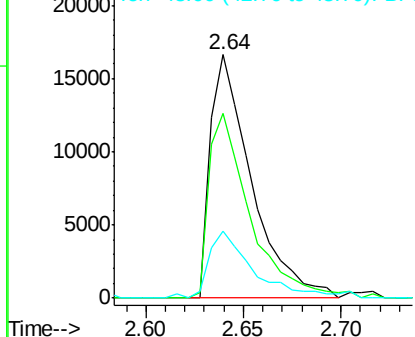
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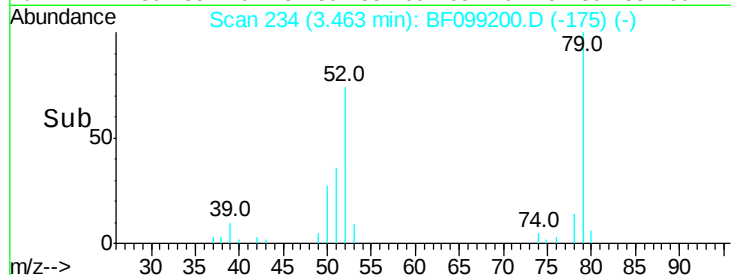
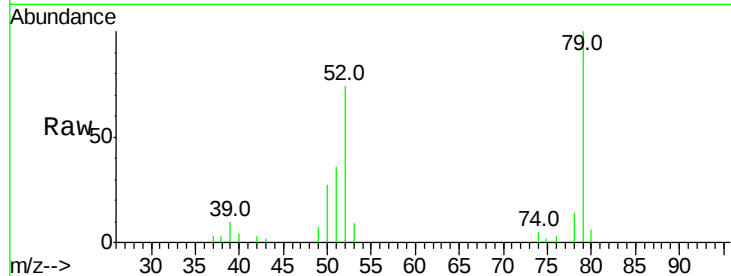
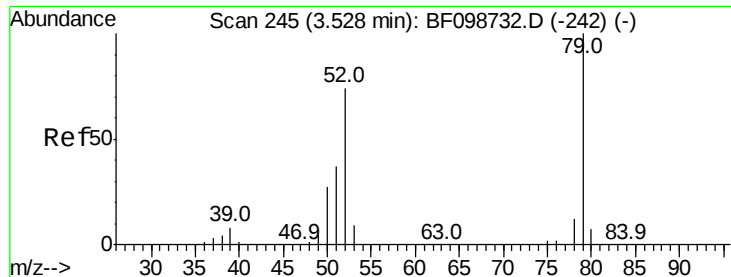
1,4-Dioxane  
Concen: 6.632 ng  
RT: 2.64 min Scan# 94  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion: 88 Resp: 24271  
Ion Ratio Lower Upper  
88 100  
58 76.8 62.6 93.8  
43 30.5 24.6 37.0



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

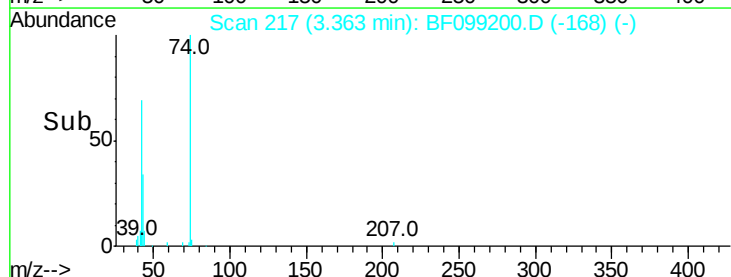
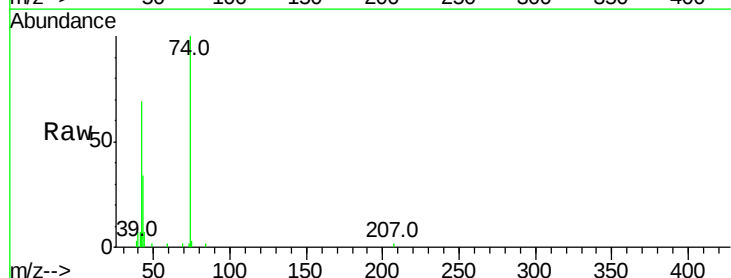
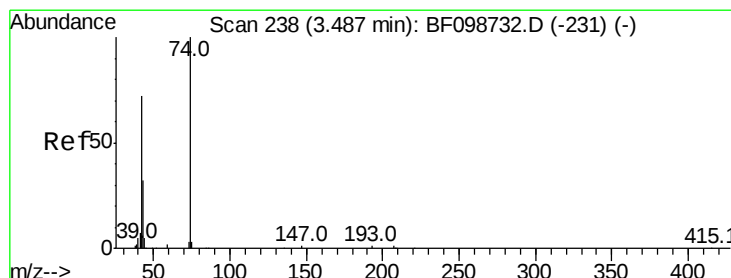
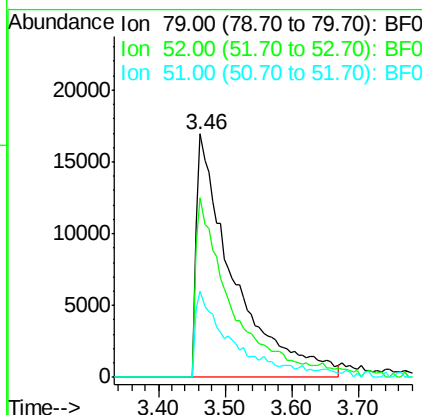




#3  
 Pvridine  
 Concen: 6.506 ng  
 RT: 3.46 min Scan# 234  
 Delta R.T. 0.05 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

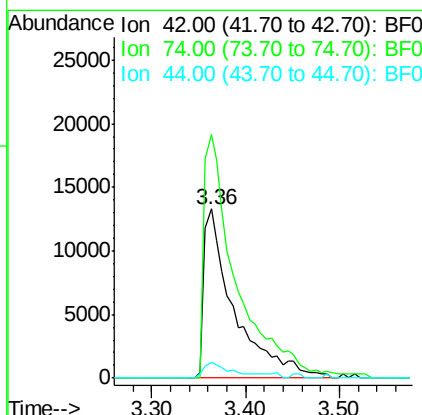
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion: 79 Resp: 64419  
 Ion Ratio Lower Upper  
 79 100  
 52 73.7 59.8 89.6  
 51 35.6 29.8 44.8



#4  
 n-Nitrosodimethylamine  
 Concen: 7.135 ng  
 RT: 3.36 min Scan# 217  
 Delta R.T. -0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion: 42 Resp: 29955  
 Ion Ratio Lower Upper  
 42 100  
 74 144.1 104.9 157.3  
 44 9.7 6.9 10.3





#5

2-Fluorophenol

Concen: 28.316 ng

RT: 5.48 min Scan# 577

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

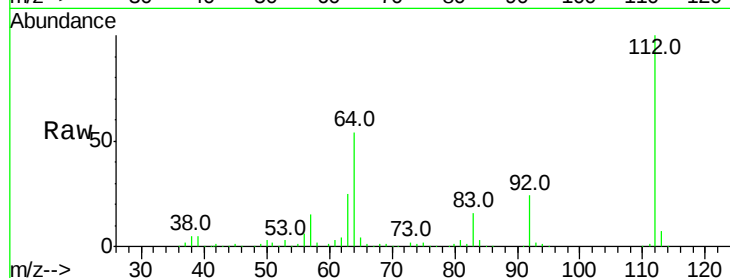
Tot Ion:112 Resp: 216949

Ion Ratio Lower Upper

112 100

64 54.3 47.9 71.9

63 25.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

300000

200000

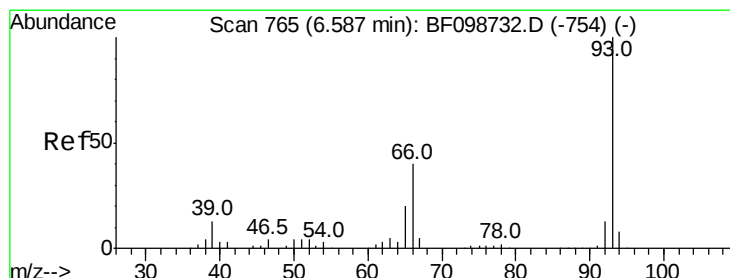
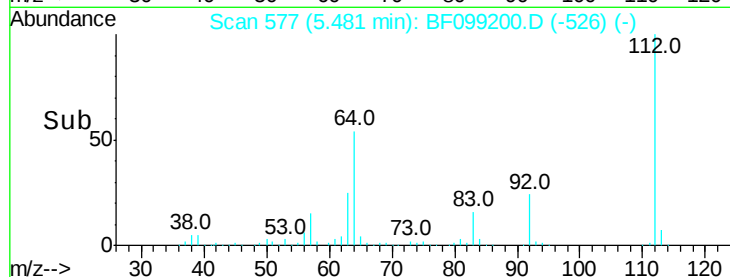
100000

0

5.48

5.40 5.45 5.50 5.55 5.60

Time-->



#6

Aniline

Concen: 4.954 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

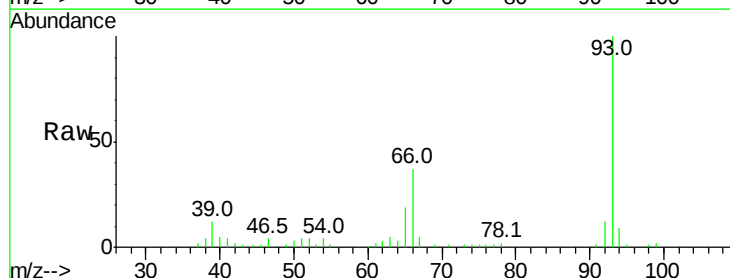
Tgt Ion: 93 Resp: 63195

Ion Ratio Lower Upper

93 100

66 37.4 32.2 48.2

65 18.9 16.4 24.6



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

120000

100000

80000

60000

40000

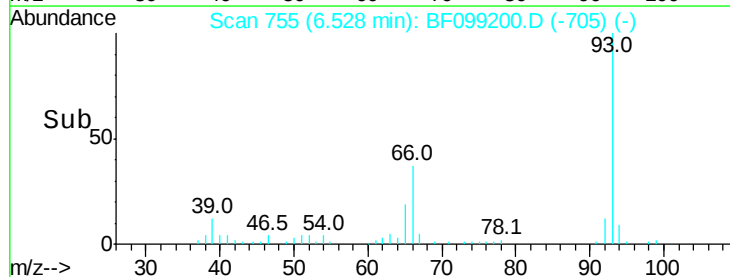
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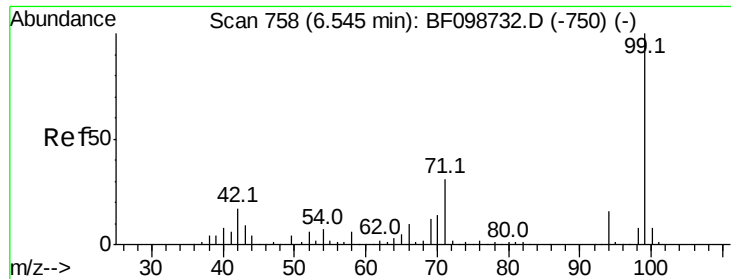
0

6.53

6.45 6.50 6.55 6.60

Time-->





#7

Phenol-d6

Concen: 26.421 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

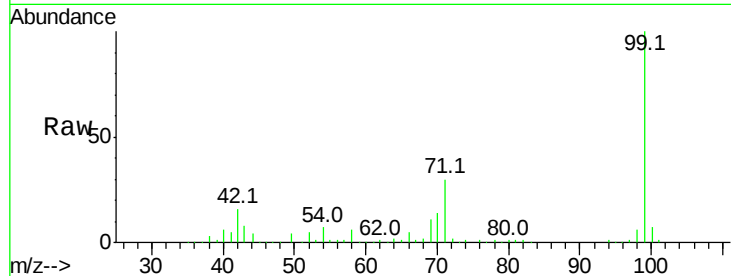
Tot Ion: 99 Resp: 249717

Ion Ratio Lower Upper

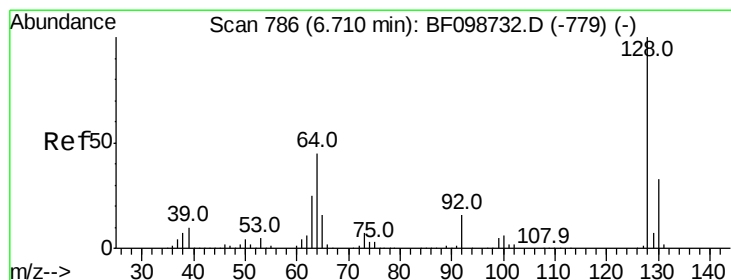
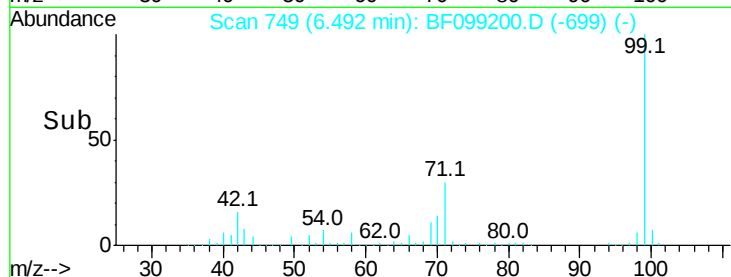
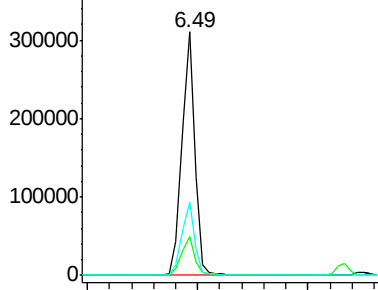
99 100

42 15.8 14.5 21.7

71 30.4 25.4 38.0



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: 8.640 ng

RT: 6.65 min Scan# 776

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

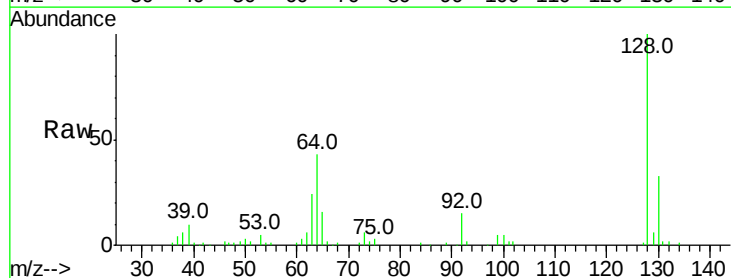
Tgt Ion: 128 Resp: 74963

Ion Ratio Lower Upper

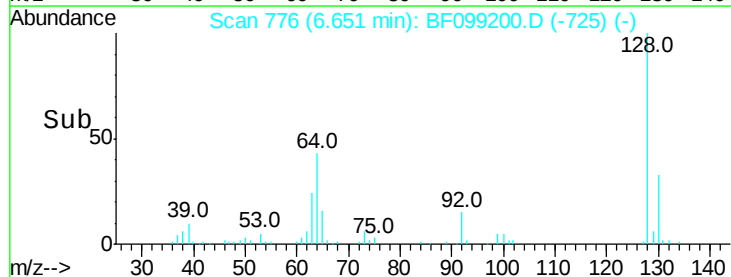
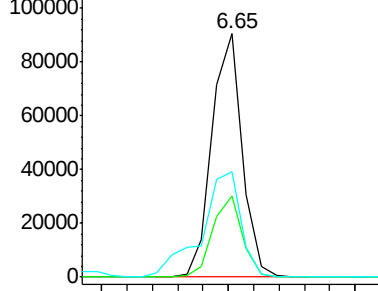
128 100

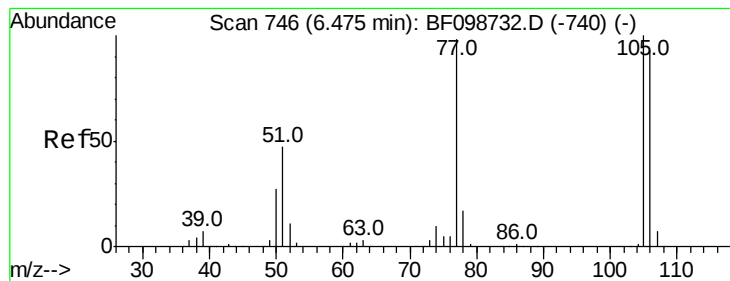
130 33.1 13.0 53.0

64 43.4 29.4 69.4



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: 5.546 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

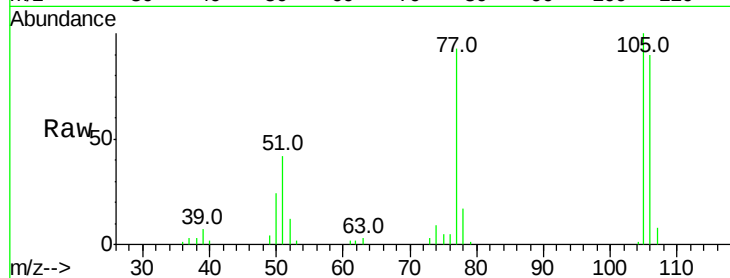
Tot Ion: 77 Resp: 30405

Ion Ratio Lower Upper

77 100

105 107.5 81.1 121.1

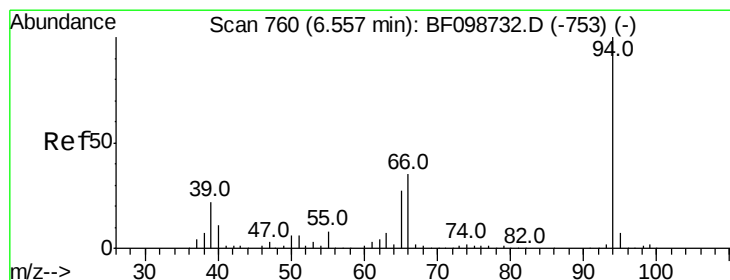
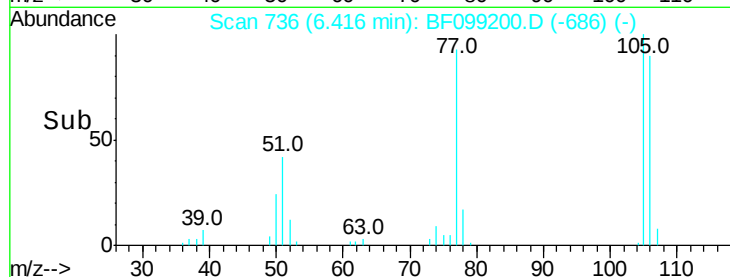
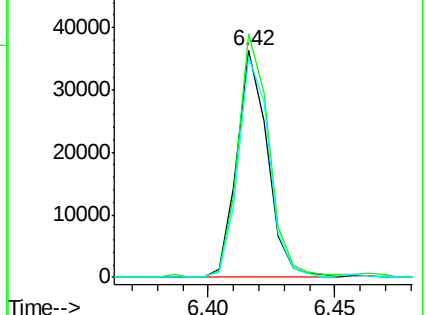
106 97.2 74.5 114.5



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: 9.535 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

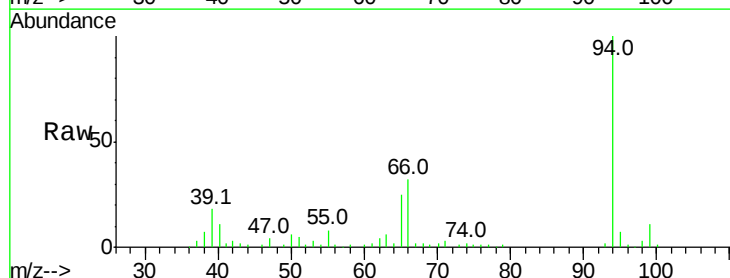
Tgt Ion: 94 Resp: 100793

Ion Ratio Lower Upper

94 100

65 25.0 7.9 47.9

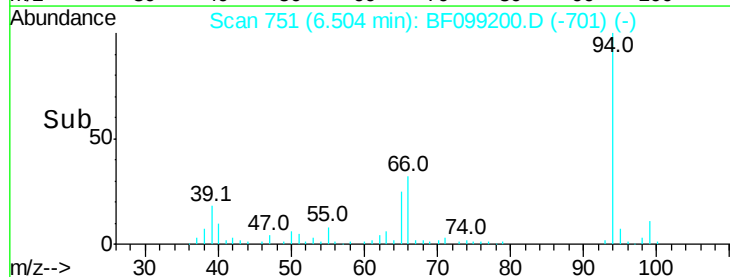
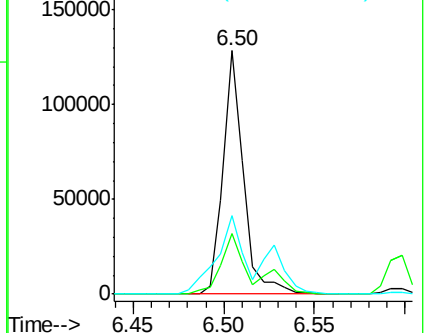
66 32.4 16.2 56.2



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: 8.673 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

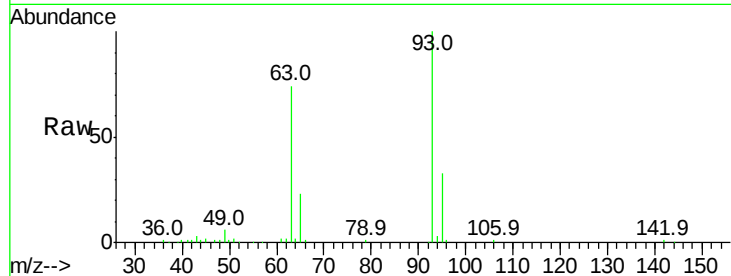
Tot Ion: 93 Resp: 71274

Ion Ratio Lower Upper

93 100

63 73.5 58.6 98.6

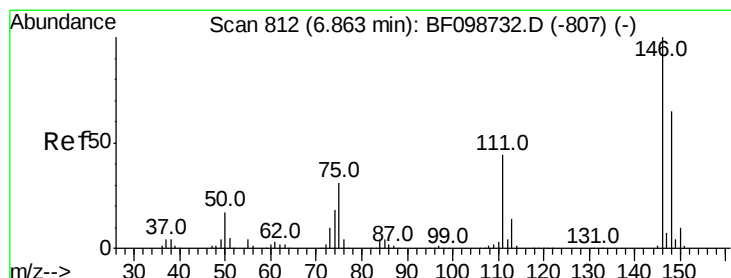
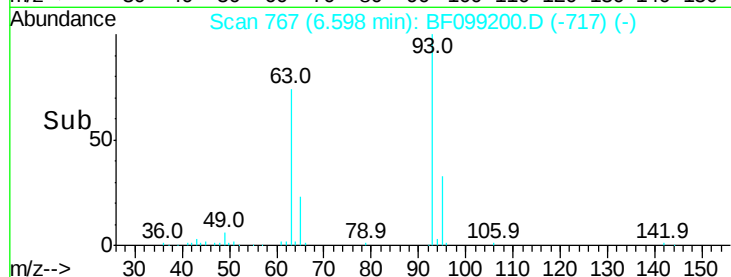
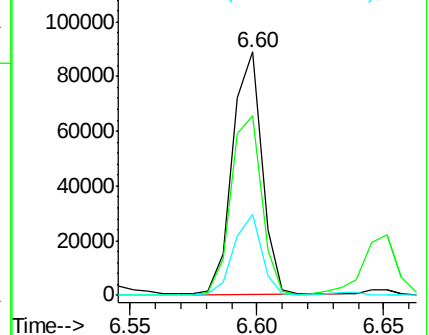
95 33.2 11.8 51.8



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: 8.899 ng

RT: 6.80 min Scan# 802

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

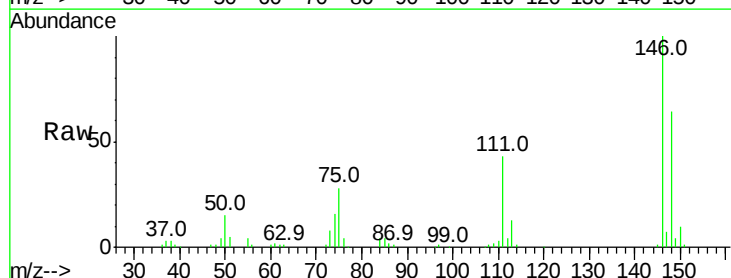
Tgt Ion: 146 Resp: 80859

Ion Ratio Lower Upper

146 100

148 64.1 51.8 77.8

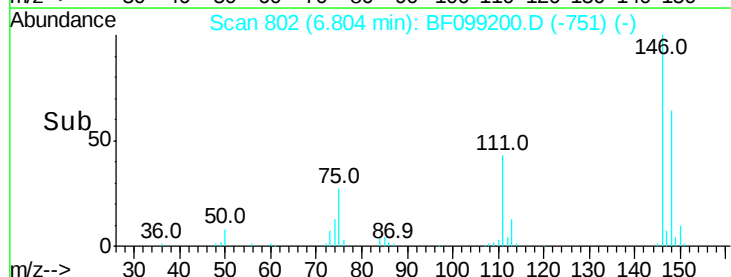
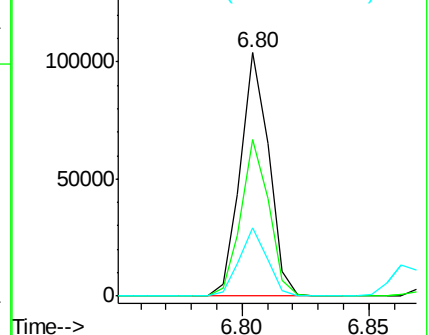
75 28.2 24.2 36.4

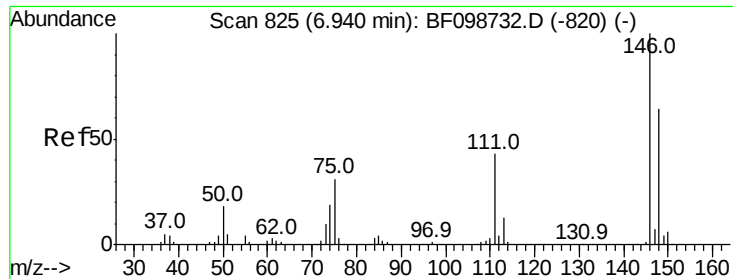


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0





#13

1,4-Dichlorobenzene

Concen: 8.910 ng

RT: 6.88 min Scan# 815

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

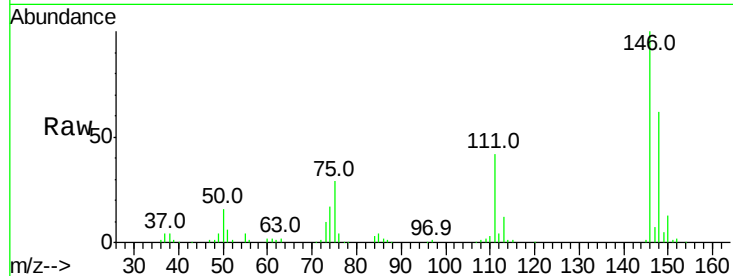
Tot Ion:146 Resp: 82371

Ion Ratio Lower Upper

146 100

148 62.3 50.8 76.2

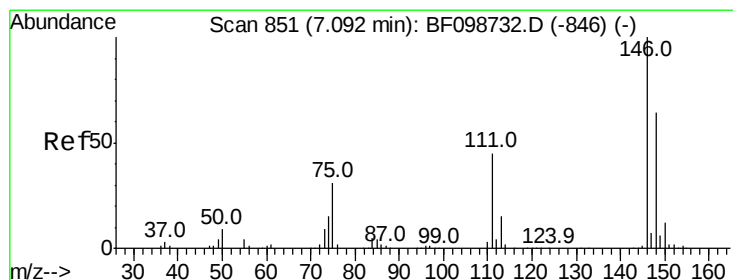
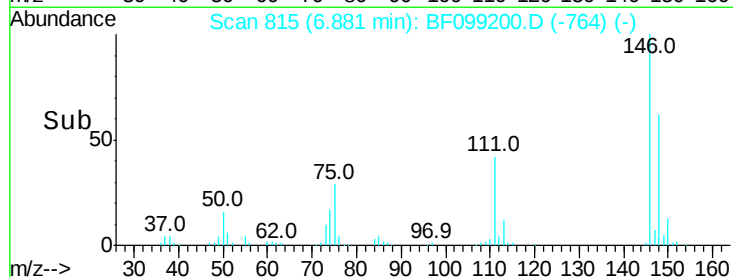
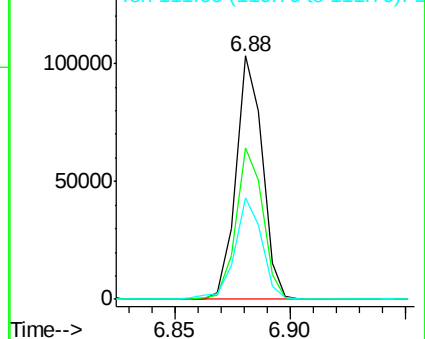
111 41.8 34.2 51.2



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 9.111 ng

RT: 7.03 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

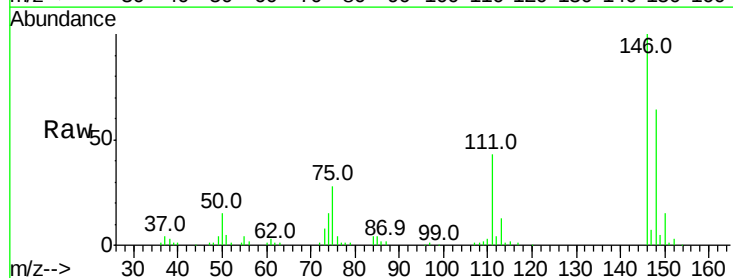
Tgt Ion:146 Resp: 77831

Ion Ratio Lower Upper

146 100

148 63.6 50.6 75.8

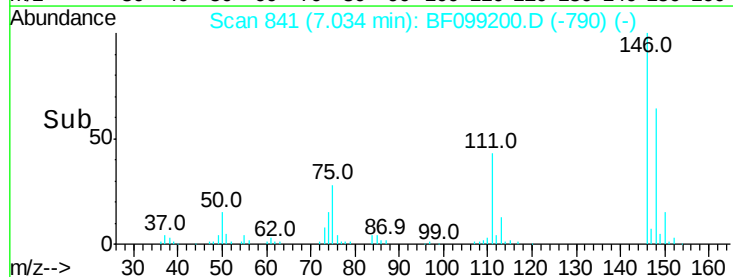
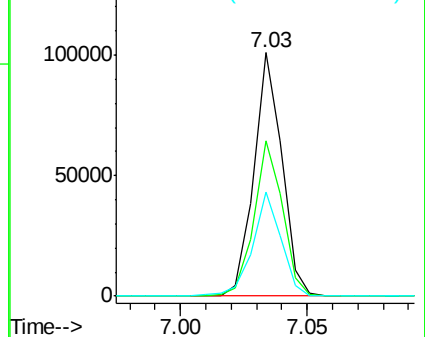
111 43.0 36.0 54.0

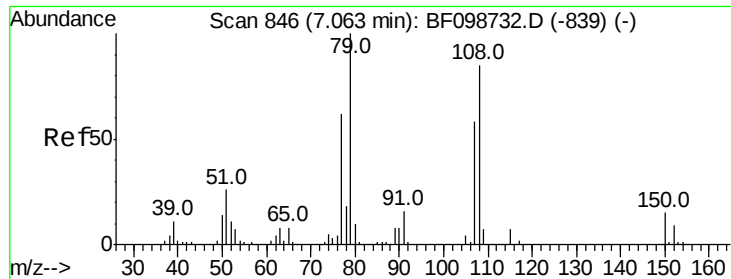


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 8.266 ng

RT: 7.00 min Scan# 836

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

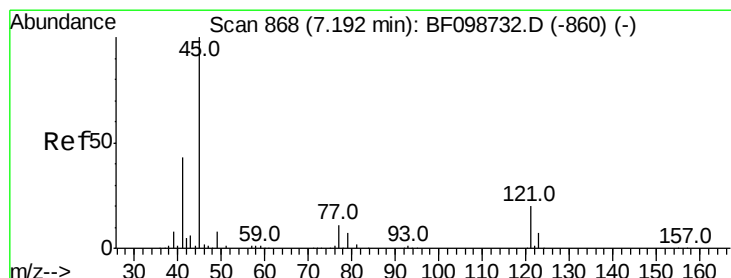
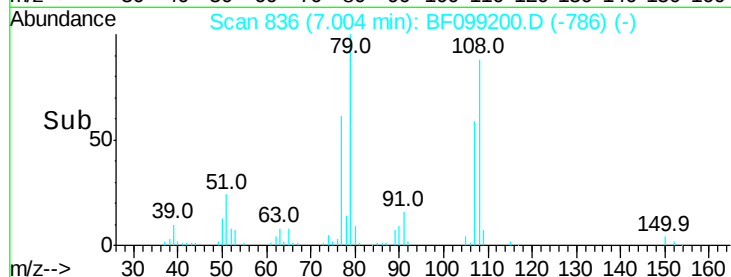
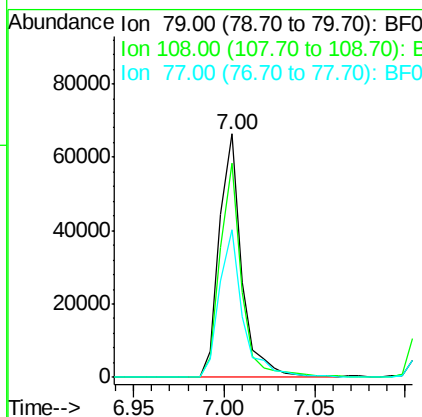
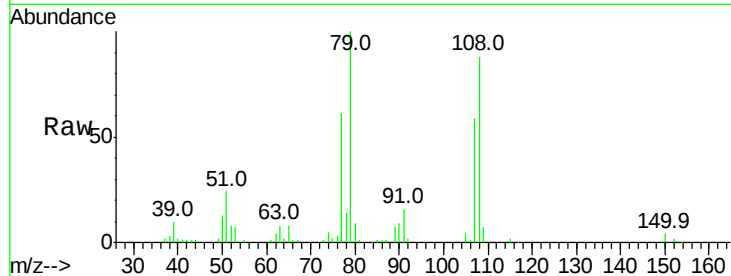
Tot Ion: 79 Resp: 57315

Ion Ratio Lower Upper

79 100

108 88.1 65.1 97.7

77 60.9 50.6 75.8



#16

2,2'-oxybis(1-chloropropane)

Concen: 8.250 ng

RT: 7.13 min Scan# 858

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

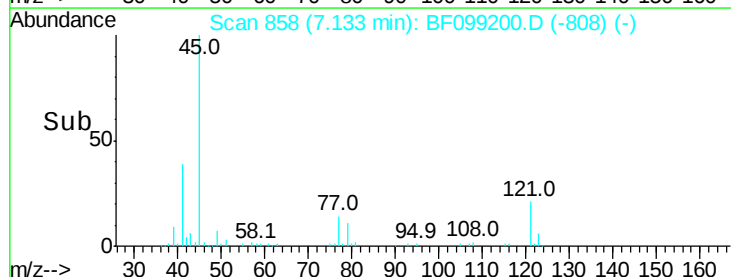
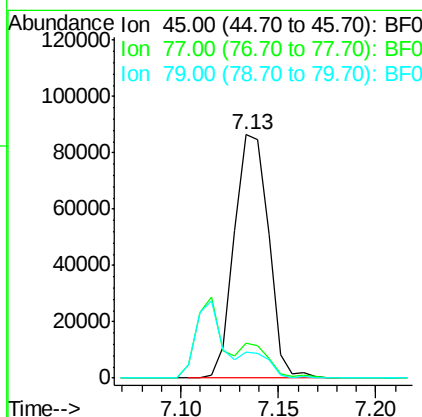
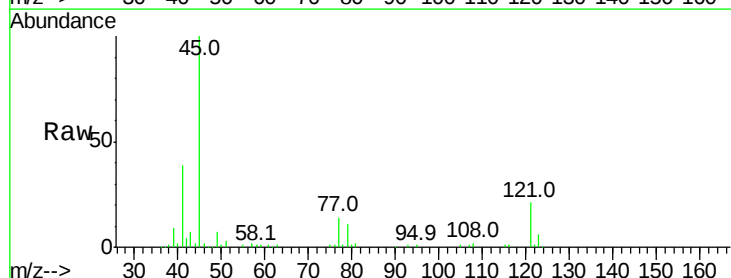
Tgt Ion: 45 Resp: 105625

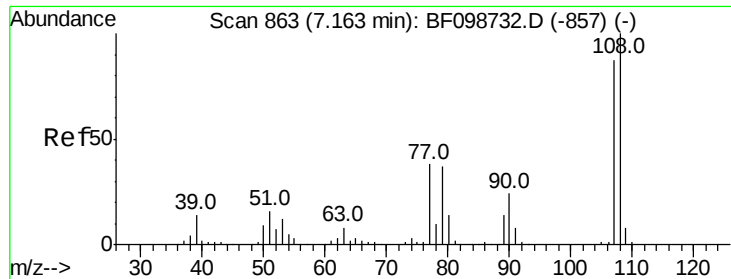
Ion Ratio Lower Upper

45 100

77 14.1 0.0 32.9

79 10.5 0.0 29.6

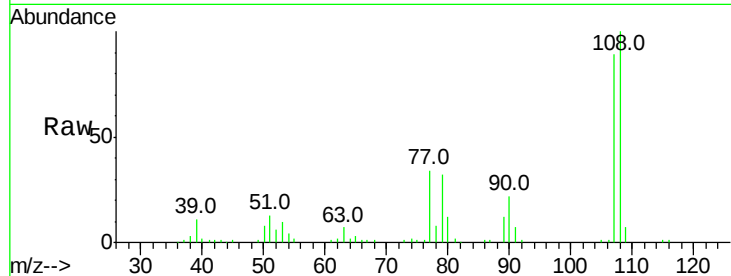




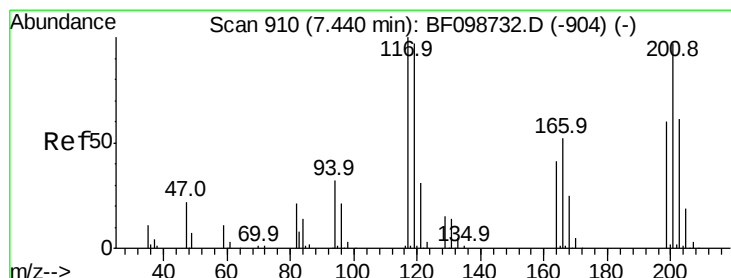
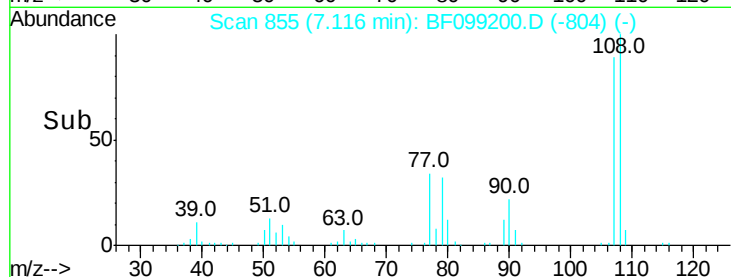
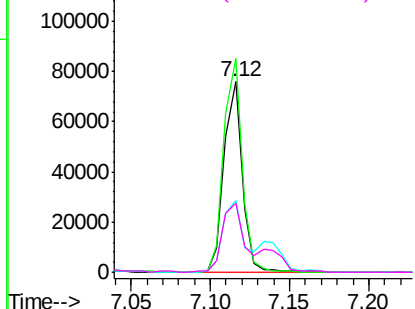
#17  
2-Methylphenol  
Concen: 8.611 ng  
RT: 7.12 min Scan# 855  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

Tot Ion:107 Resp: 61135  
Ion Ratio Lower Upper  
107 100  
108 112.1 91.7 137.5  
77 37.9 33.8 50.8  
79 36.4 33.8 50.8

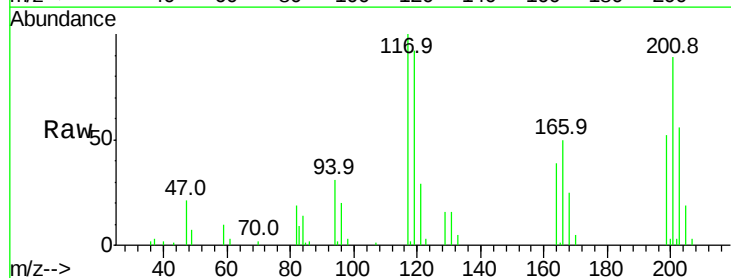


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0  
Ion 79.00 (78.70 to 79.70): BF0

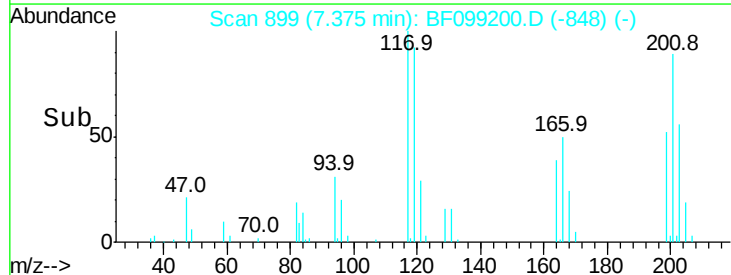
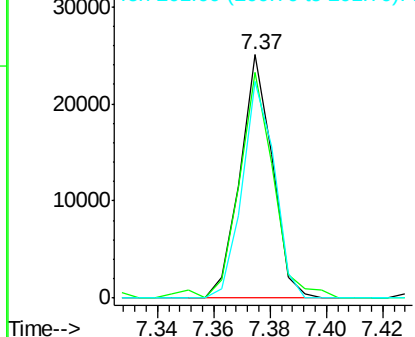


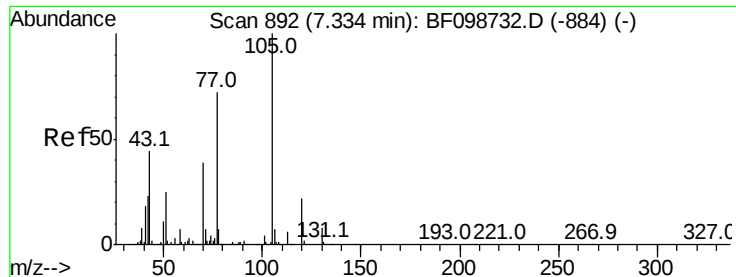
#18  
Hexachloroethane  
Concen: 5.953 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:117 Resp: 19784  
Ion Ratio Lower Upper  
117 100  
119 92.4 75.8 113.8  
201 89.0 75.7 113.5



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

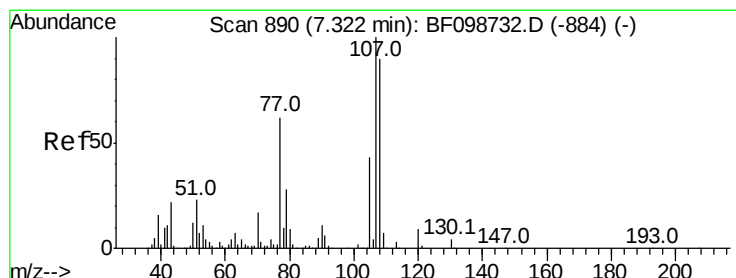
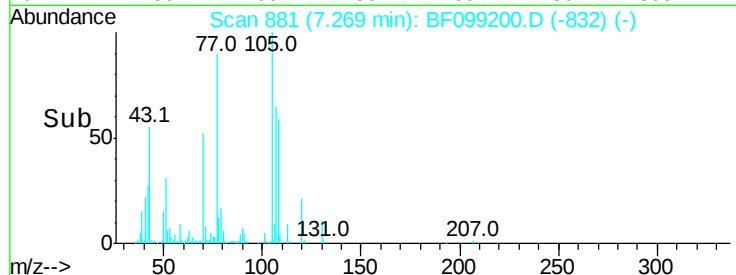
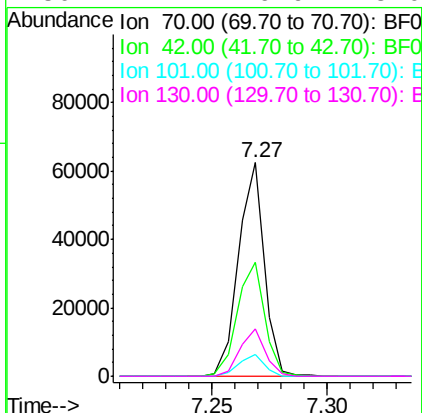
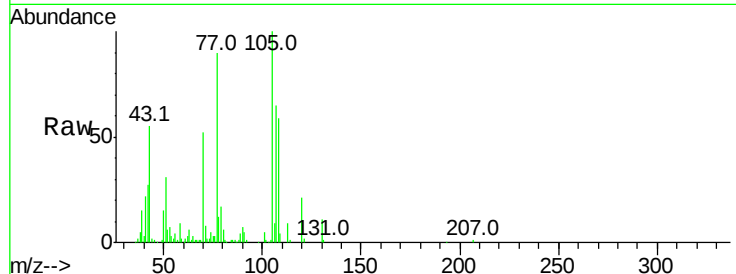




#19  
n-Nitroso-di-n-propylamine  
Concen: 8.109 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

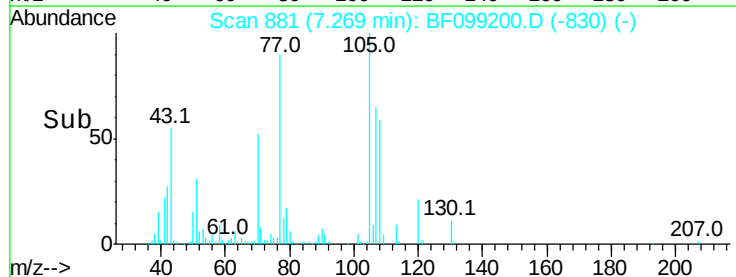
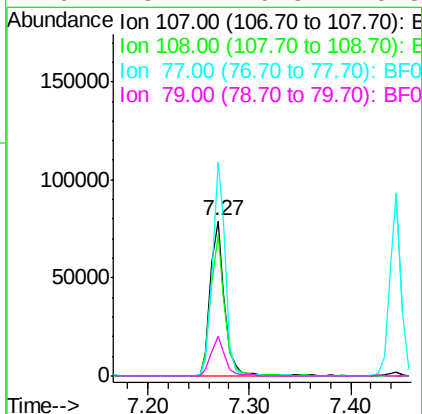
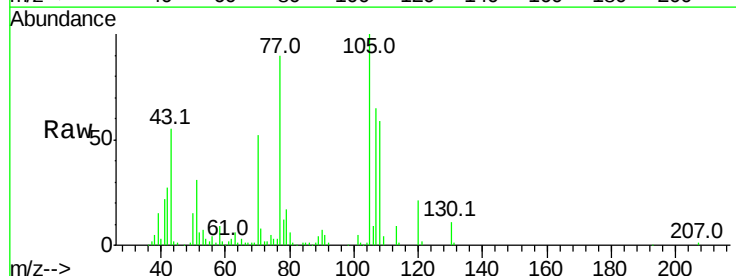
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 53.2  | 47.5  | 71.3  |
| 101     | 9.9   | 7.4   | 11.2  |
| 130     | 22.2  | 16.6  | 25.0  |



#20  
3+4-Methylphenols  
Concen: 8.636 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 90.7  | 68.2  | 108.2 |
| 77      | 137.8 | 26.7  | 66.7# |
| 79      | 25.7  | 6.3   | 46.3  |

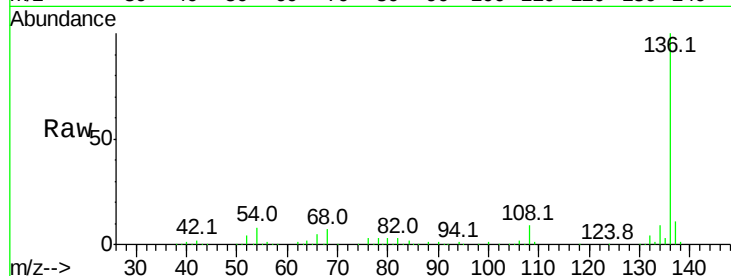




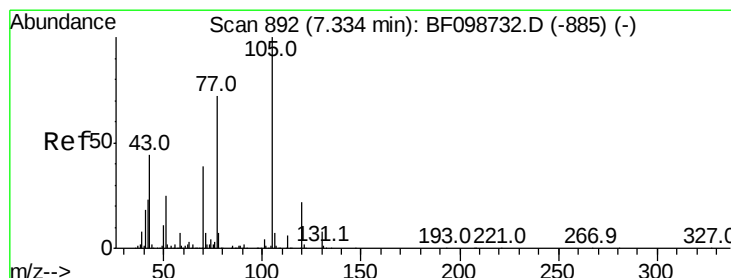
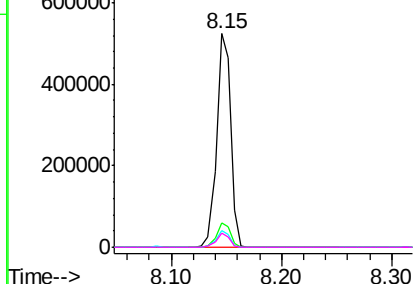
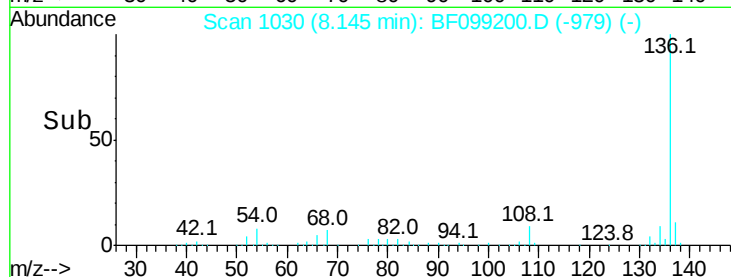
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 461055 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.9   | 13.3   |
| 54       | 7.9   | 6.6   | 9.8    |
| 68       | 6.6   | 5.0   | 7.4    |

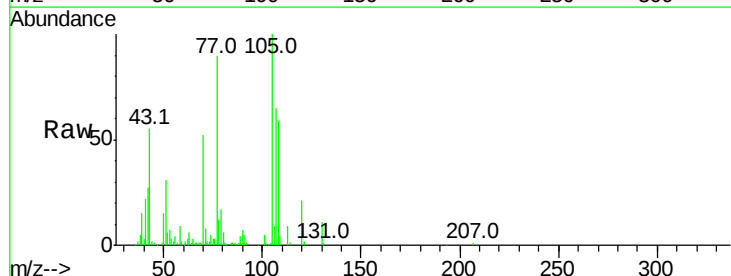


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

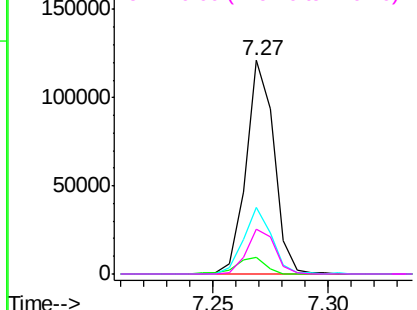
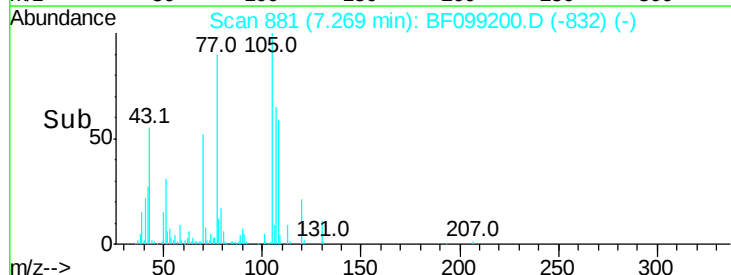


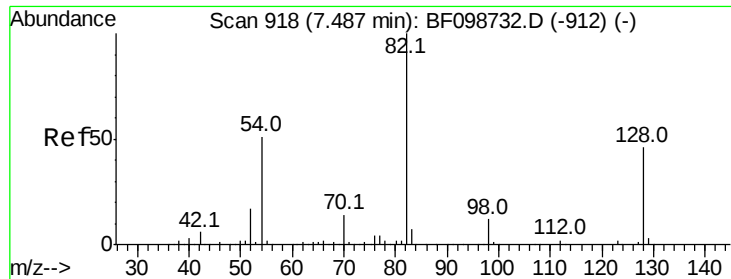
#22  
Acetophenone  
Concen: 9.187 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 102621 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 8.0   | 4.4   | 6.6#   |
| 51       | 31.3  | 22.3  | 33.5   |
| 120      | 21.0  | 16.9  | 25.3   |



Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BF0  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 120.00 (119.70 to 120.70): E

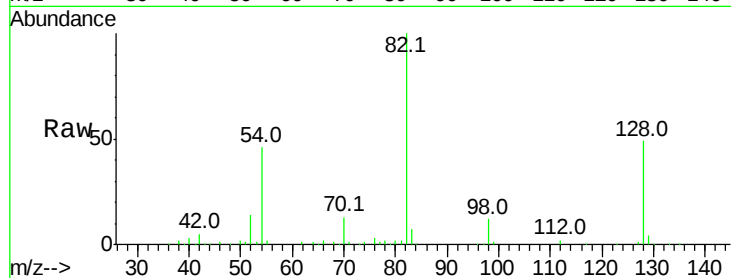




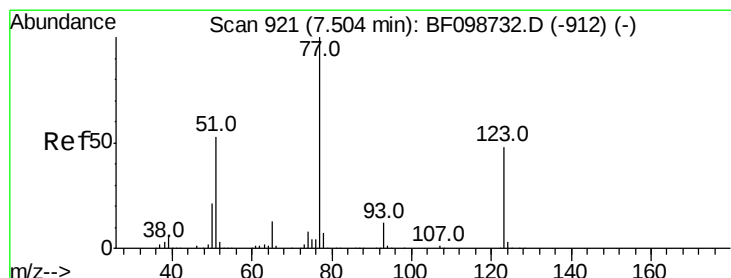
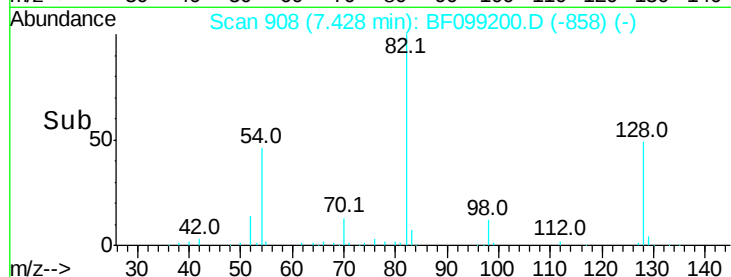
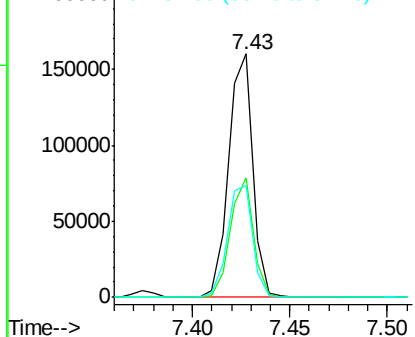
#23  
Nitrobenzene-d5  
Concen: 19.133 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

Tot Ion: 82 Resp: 137553  
Ion Ratio Lower Upper  
82 100  
128 49.0 36.1 54.1  
54 45.7 41.4 62.2

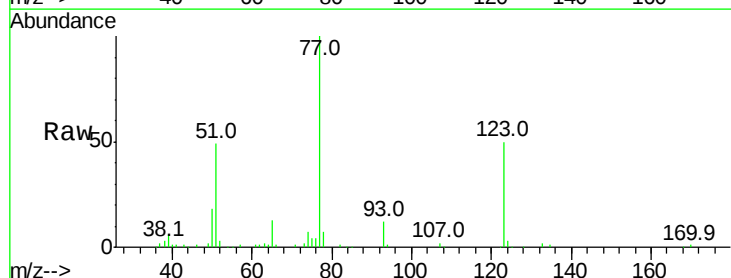


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0

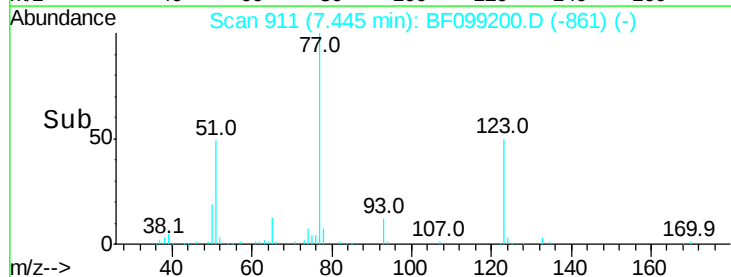
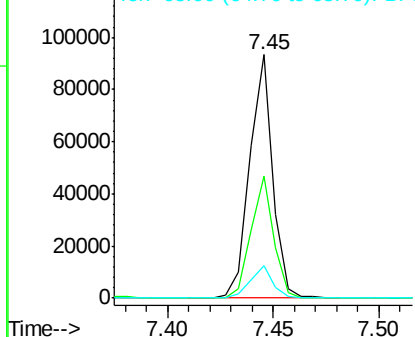


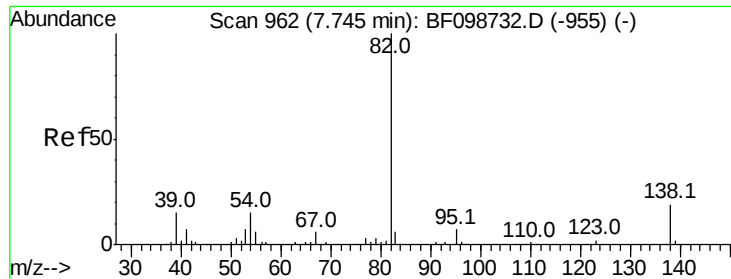
#24  
Nitrobenzene  
Concen: 8.671 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion: 77 Resp: 70719  
Ion Ratio Lower Upper  
77 100  
123 50.2 37.9 56.9  
65 13.1 11.0 16.4



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





#25

Isophorone

Concen: 8.678 ng

RT: 7.68 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

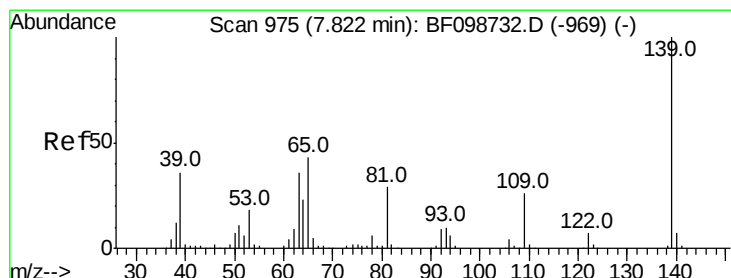
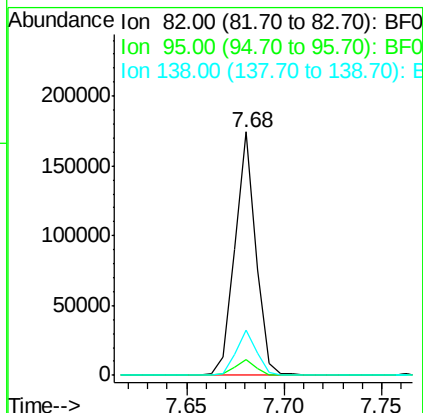
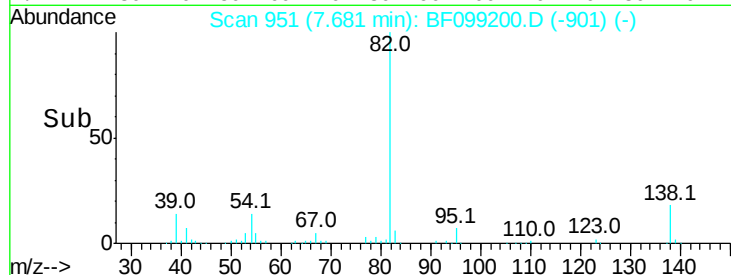
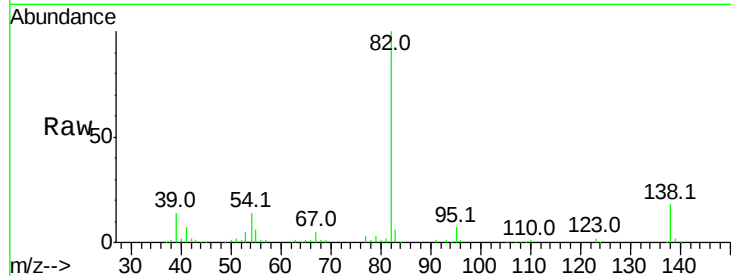
Tot Ion: 82 Resp: 128984

Ion Ratio Lower Upper

82 100

95 6.7 5.2 7.8

138 18.4 14.9 22.3



#26

2-Nitrophenol

Concen: 5.554 ng

RT: 7.76 min Scan# 965

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

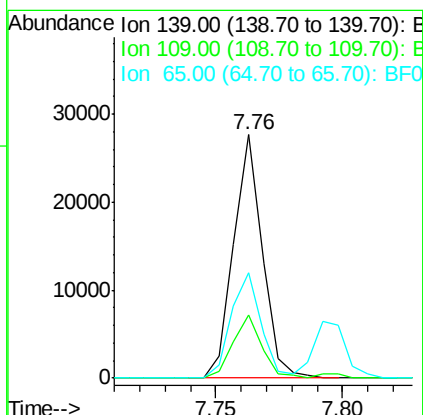
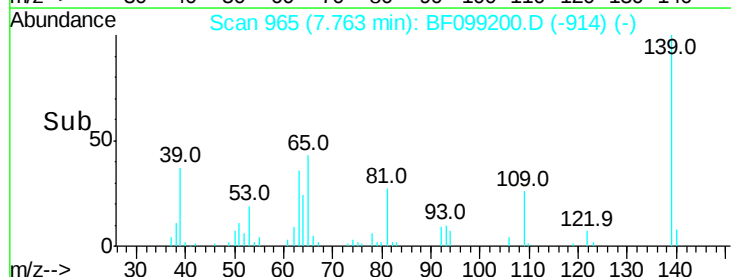
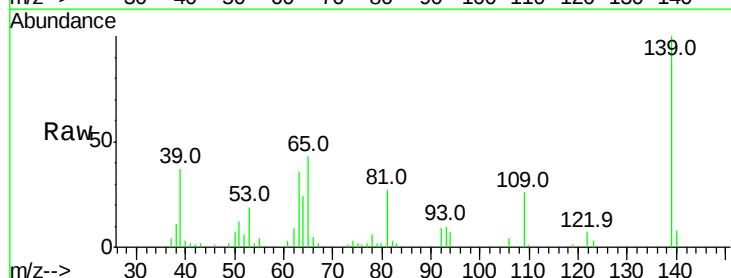
Tgt Ion: 139 Resp: 21782

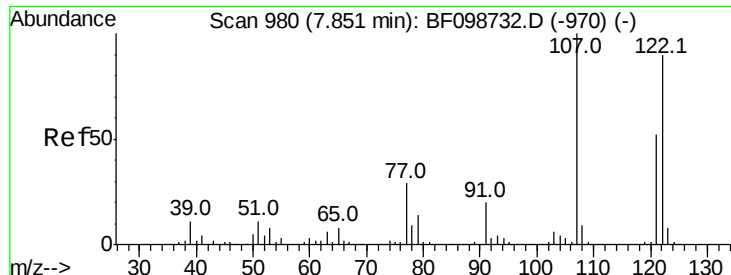
Ion Ratio Lower Upper

139 100

109 26.1 22.7 34.1

65 43.4 40.5 60.7



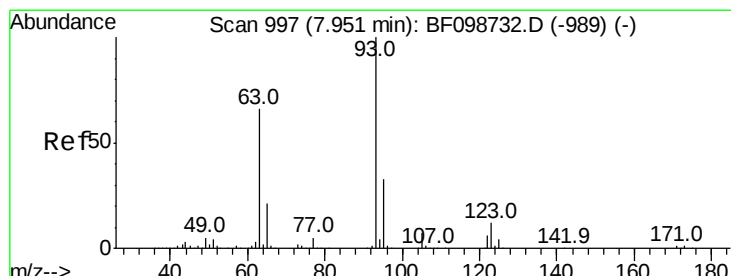
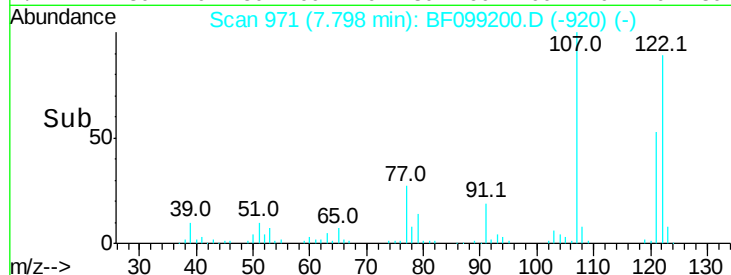
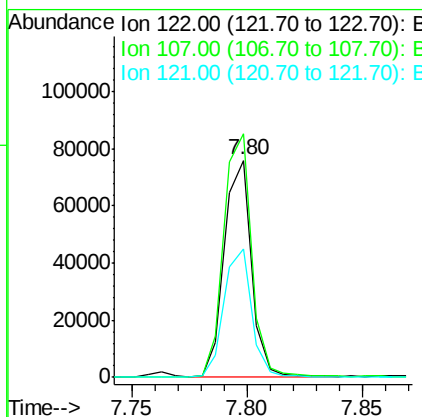
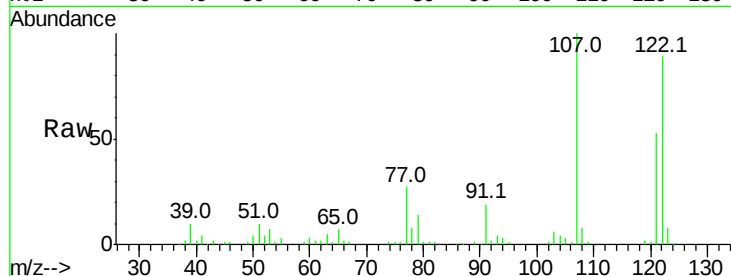


#27  
 2,4-Dimethylphenol  
 Concen: 8.445 ng  
 RT: 7.80 min Scan# 971  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion:122 Resp: 62547  

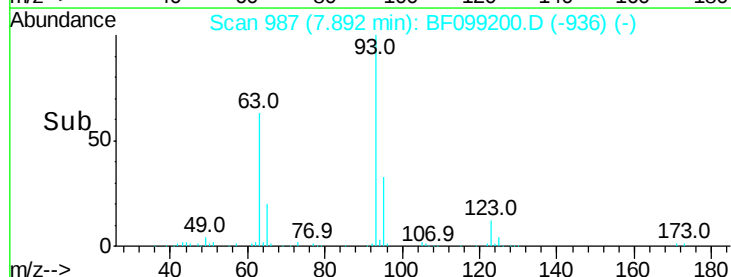
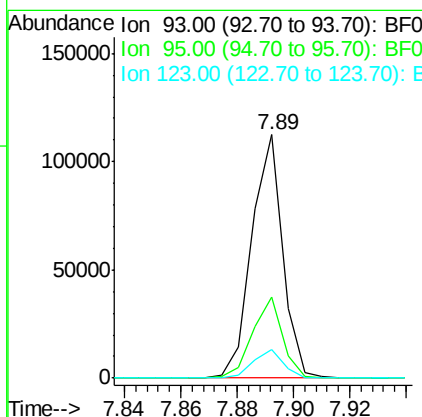
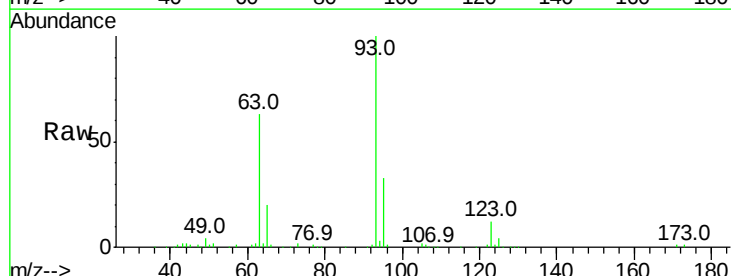
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 122 | 100   |       |       |
| 107 | 112.2 | 91.2  | 136.8 |
| 121 | 59.1  | 47.2  | 70.8  |

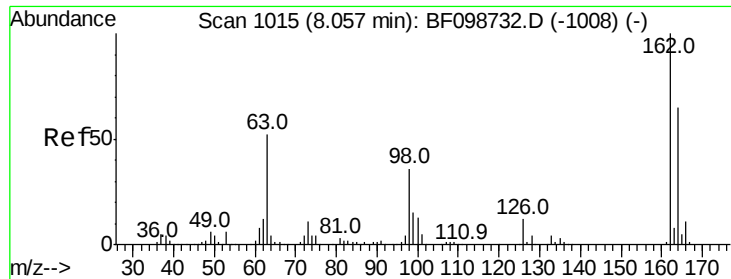


#28  
 bis(2-Chloroethoxy)methane  
 Concen: 9.200 ng  
 RT: 7.89 min Scan# 987  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion: 93 Resp: 85220  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 95  | 33.3  | 26.3  | 39.5  |
| 123 | 11.8  | 9.8   | 14.6  |

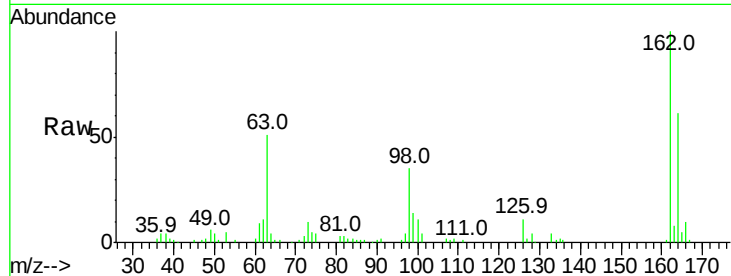




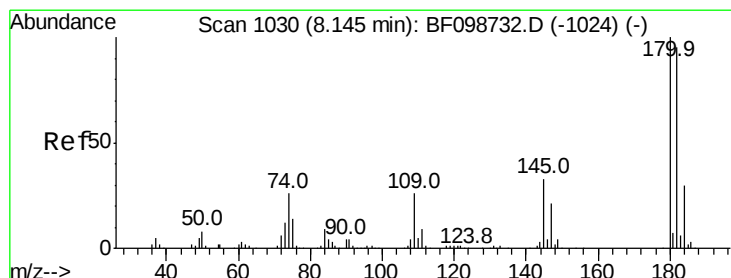
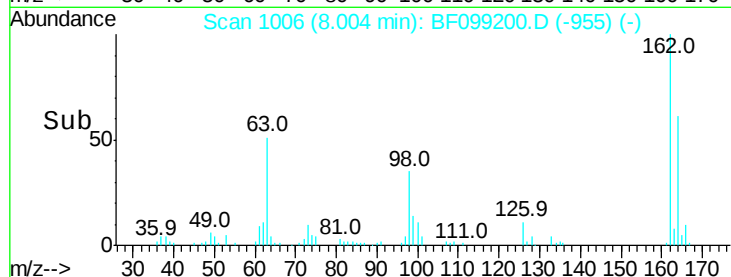
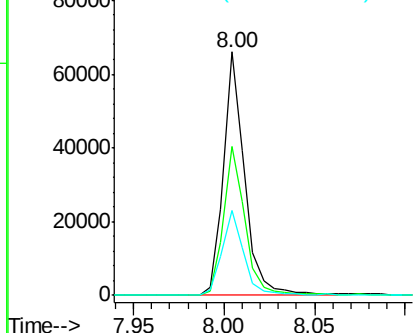
#29  
 2,4-Dichlorophenol  
 Concen: 8.490 ng  
 RT: 8.00 min Scan# 1006  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion:162 Resp: 53984  
 Ion Ratio Lower Upper  
 162 100  
 164 61.3 42.7 82.7  
 98 34.9 18.1 58.1

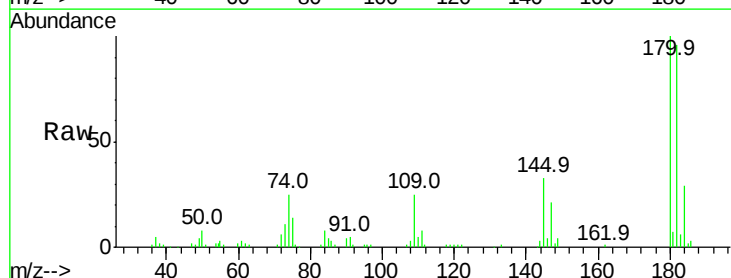


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 164.00 (163.70 to 164.70): E  
 Ion 98.00 (97.70 to 98.70): BFO

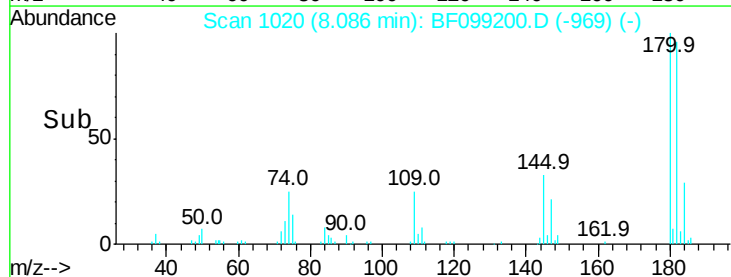
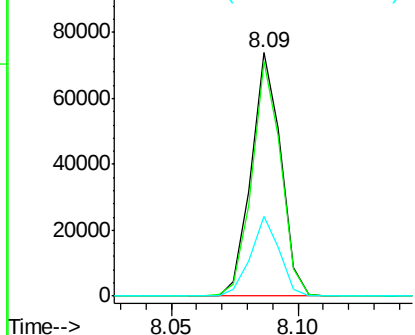


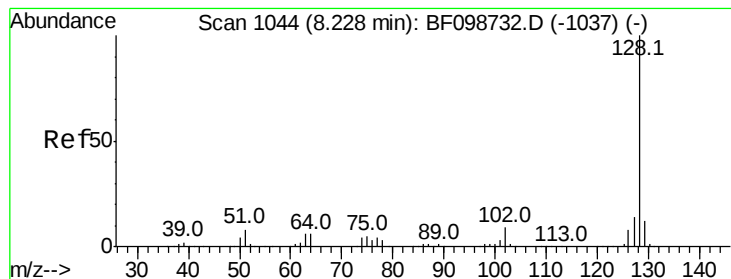
#30  
 1,2,4-Trichlorobenzene  
 Concen: 9.438 ng  
 RT: 8.09 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion:180 Resp: 60027  
 Ion Ratio Lower Upper  
 180 100  
 182 96.3 76.8 115.2  
 145 32.9 26.5 39.7



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





#31

Naphthalene

Concen: 10.123 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

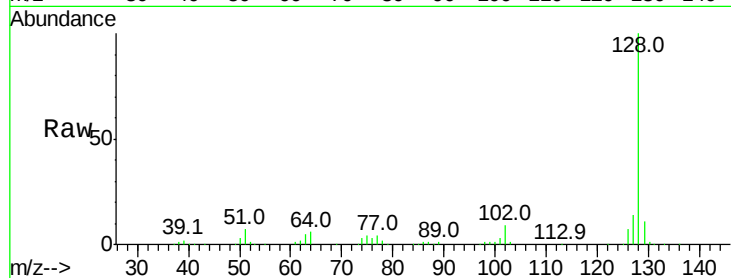
Tot Ion:128 Resp: 219195

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

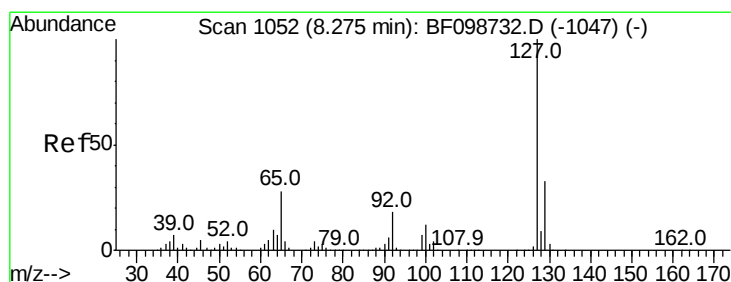
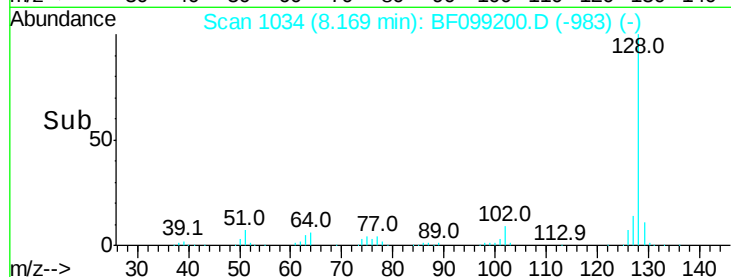
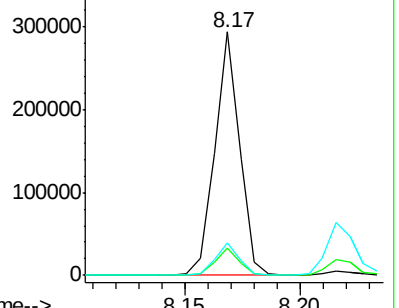
127 13.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33

4-Chloroaniline

Concen: 6.405 ng

RT: 8.22 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Tgt Ion:127 Resp: 57922

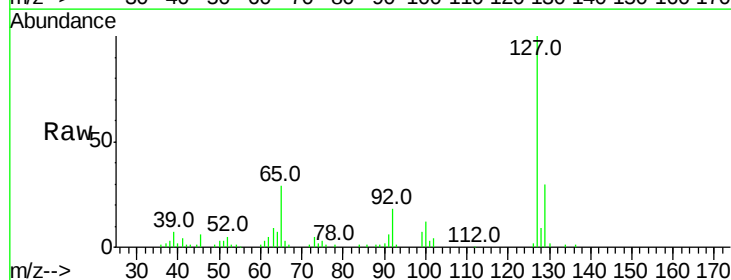
Ion Ratio Lower Upper

127 100

129 29.9 25.9 38.9

65 28.6 25.0 37.4

92 18.4 15.2 22.8

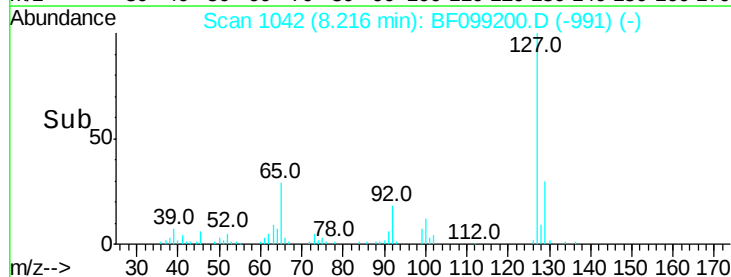
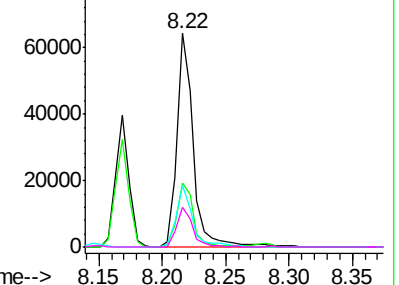


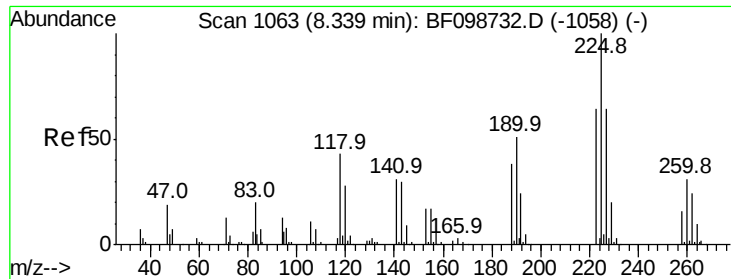
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

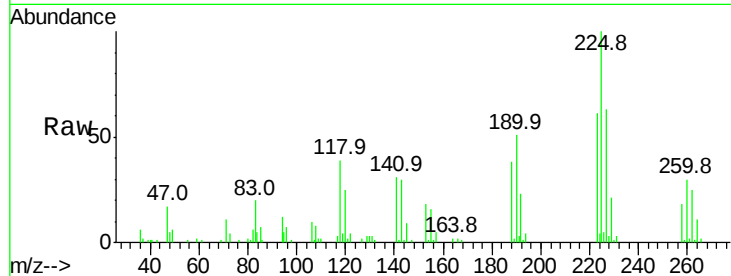




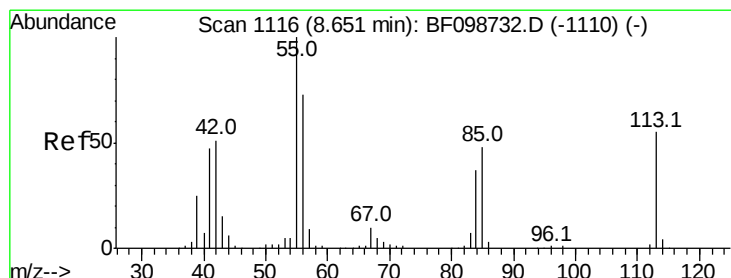
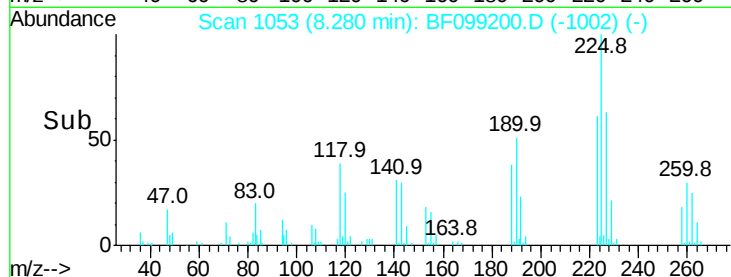
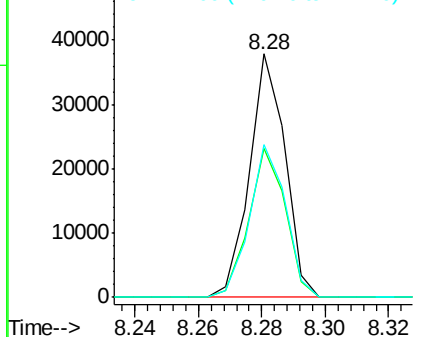
#34  
Hexachlorobutadiene  
Concen: 8.998 ng  
RT: 8.28 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

Tot Ion:225 Resp: 29475  
Ion Ratio Lower Upper  
225 100  
223 61.4 50.6 76.0  
227 62.8 51.9 77.9

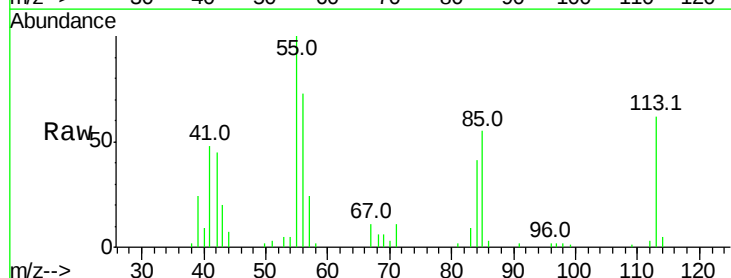


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

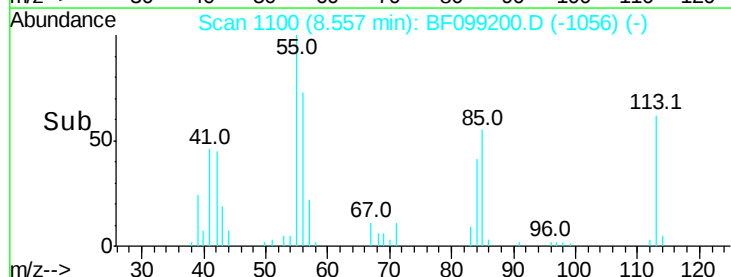
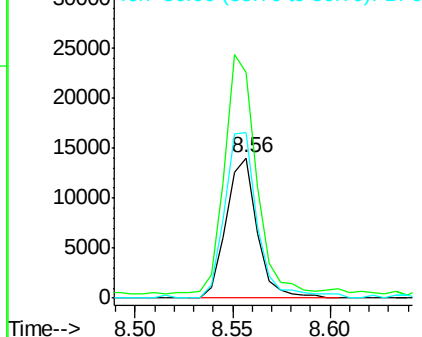


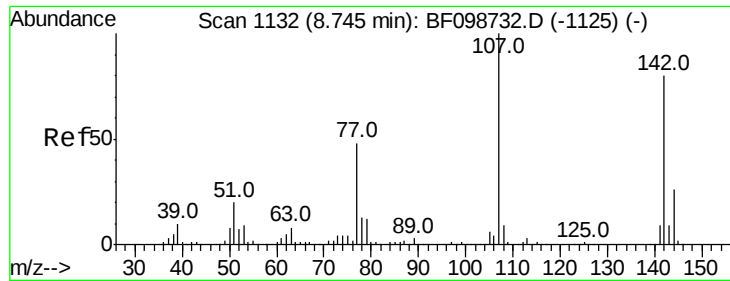
#35  
Caprolactam  
Concen: 7.589 ng  
RT: 8.56 min Scan# 1100  
Delta R.T. -0.04 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:113 Resp: 15479  
Ion Ratio Lower Upper  
113 100  
55 161.0 163.3 203.3#  
56 117.3 115.7 155.7



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

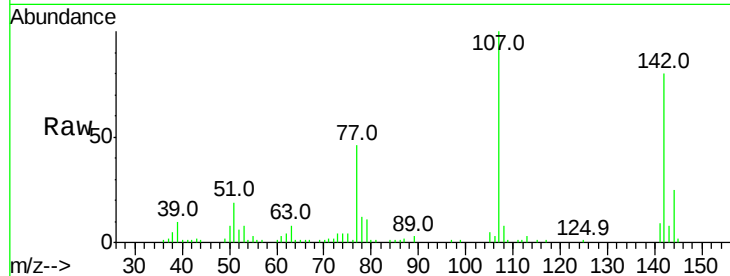




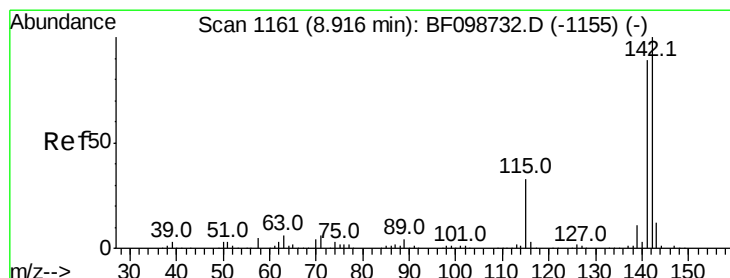
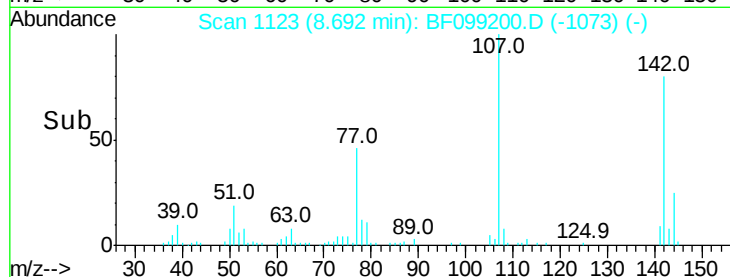
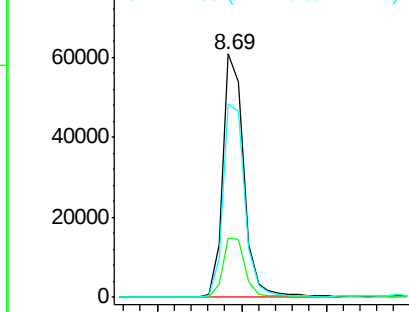
#36  
4-Chloro-3-methylphenol  
Concen: 7.447 ng  
RT: 8.69 min Scan# 1123  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

Tot Ion:107 Resp: 53226  
Ion Ratio Lower Upper  
107 100  
144 24.6 20.5 30.7  
142 79.5 62.0 93.0

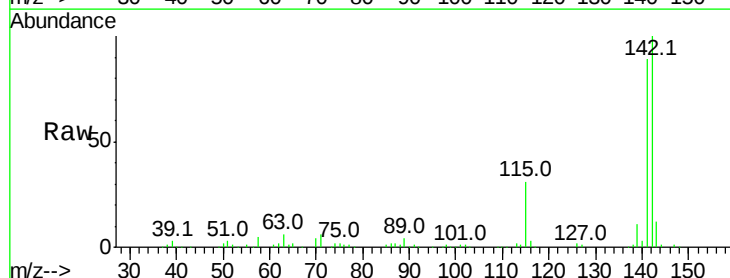


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 144.00 (143.70 to 144.70): E  
Ion 142.00 (141.70 to 142.70): E

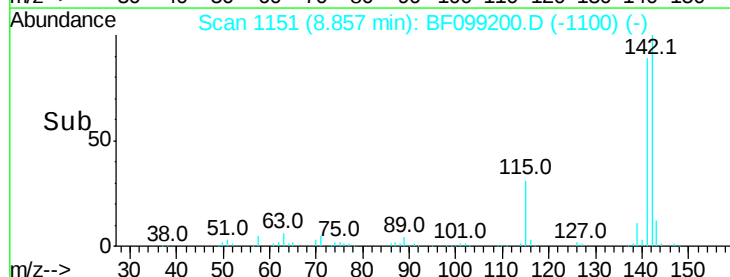
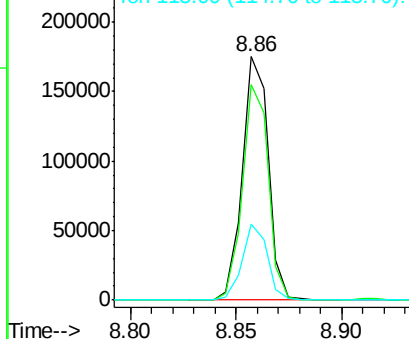


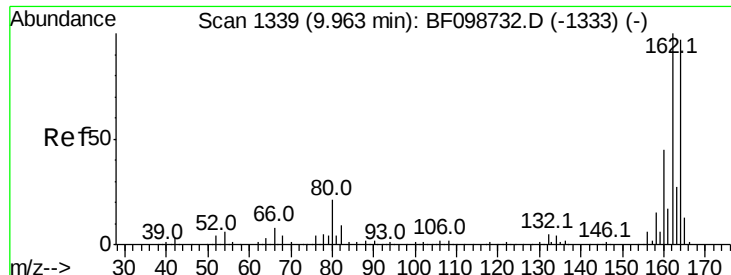
#37  
2-Methylnaphthalene  
Concen: 10.585 ng  
RT: 8.86 min Scan# 1151  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:142 Resp: 148997  
Ion Ratio Lower Upper  
142 100  
141 88.6 70.8 106.2  
115 31.0 26.1 39.1



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

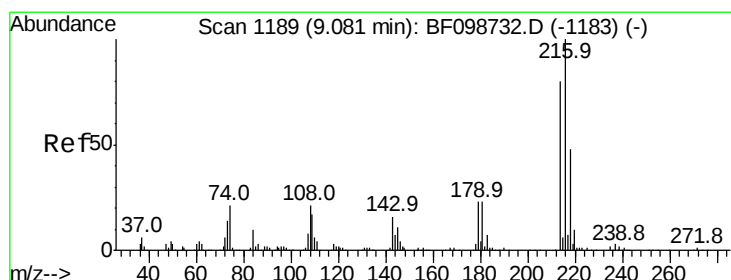
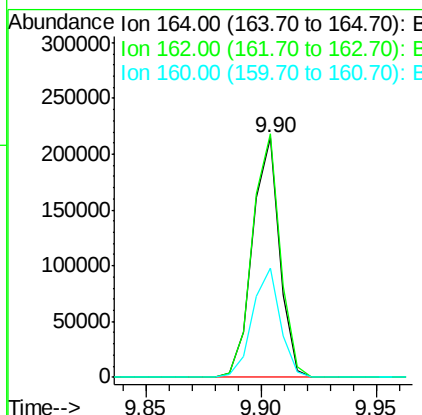
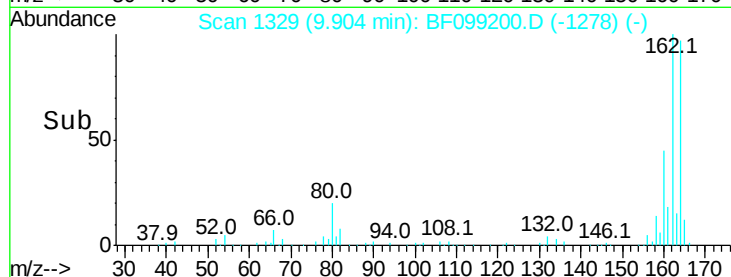
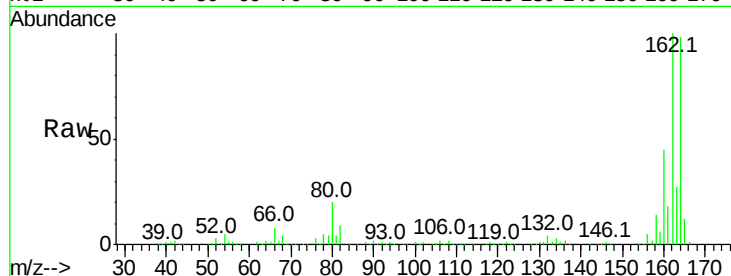




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1329  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

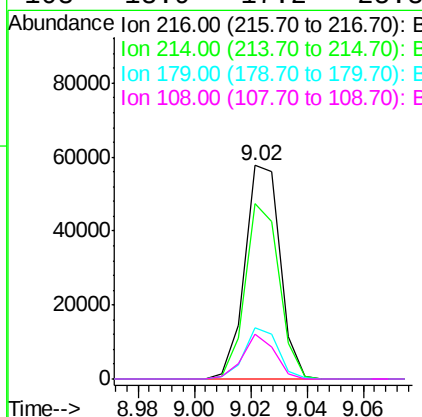
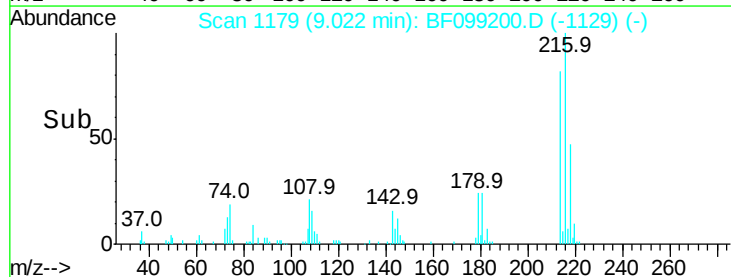
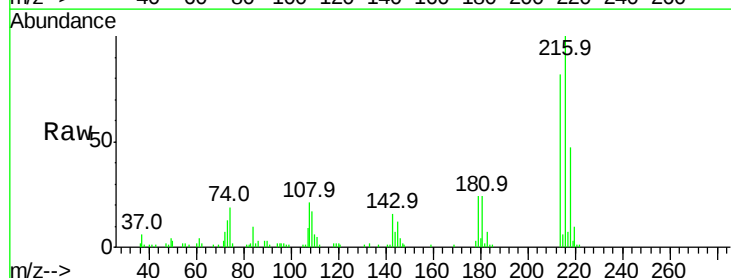
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

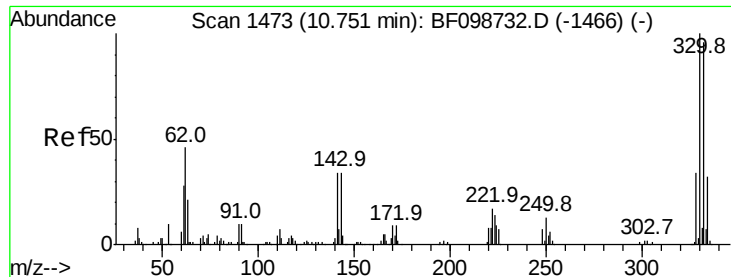
Tot Ion:164 Resp: 176625  
Ion Ratio Lower Upper  
164 100  
162 101.8 86.1 129.1  
160 45.5 38.3 57.5



#39  
1,2,4,5-Tetrachlorobenzene  
Concen: 9.526 ng  
RT: 9.02 min Scan# 1179  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:216 Resp: 50178  
Ion Ratio Lower Upper  
216 100  
214 79.1 63.0 94.4  
179 23.2 18.1 27.1  
108 18.9 17.2 25.8

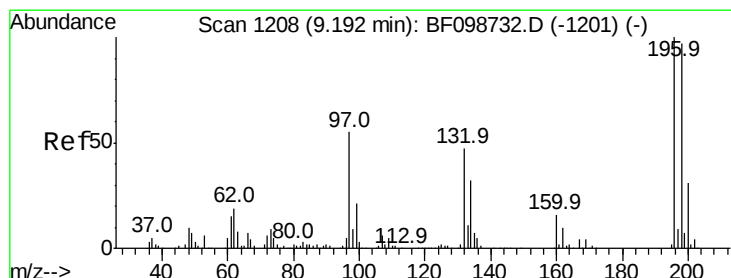
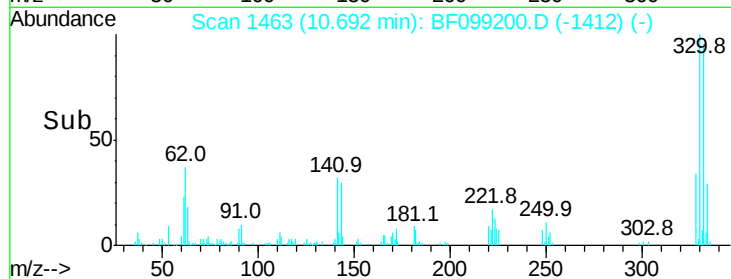
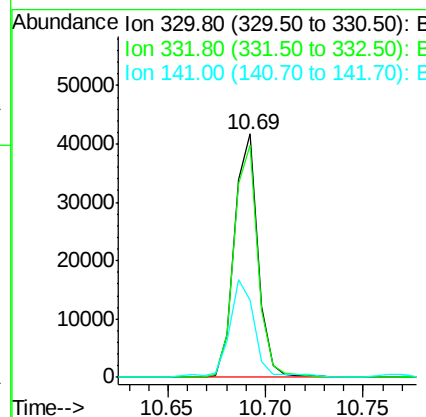
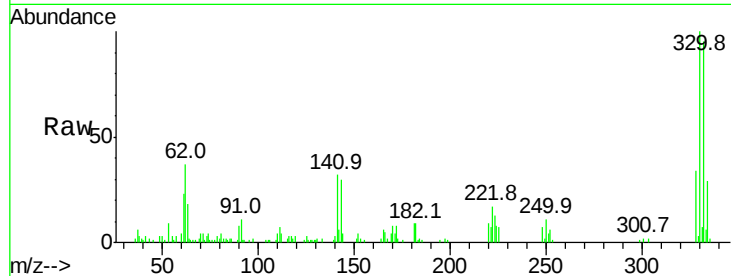




#41  
 2,4,6-Tribromophenol  
 Concen: 24.134 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

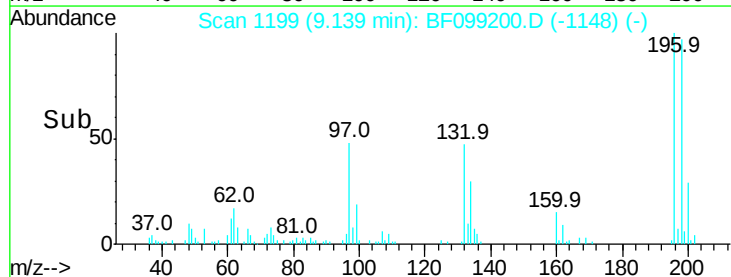
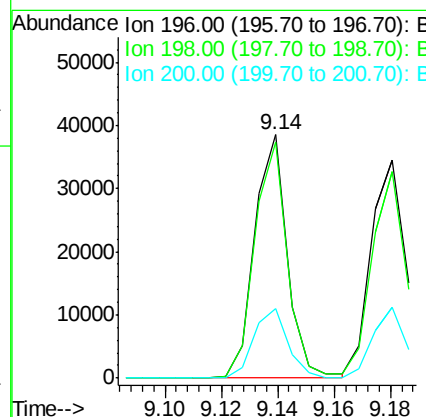
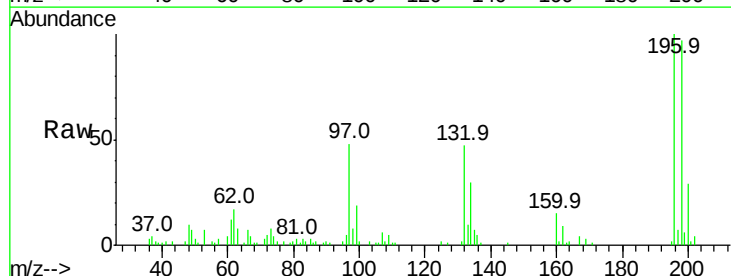
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

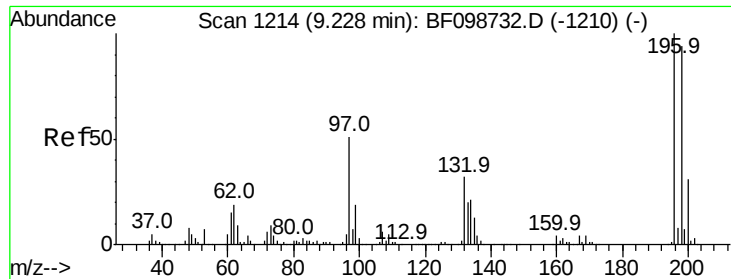
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 77.0  | 115.6 |
| 141     | 43.6  | 29.9  | 44.9  |



#42  
 2,4,6-Trichlorophenol  
 Concen: 8.311 ng  
 RT: 9.14 min Scan# 1199  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 96.7  | 75.7  | 113.5 |
| 200     | 28.5  | 24.5  | 36.7  |

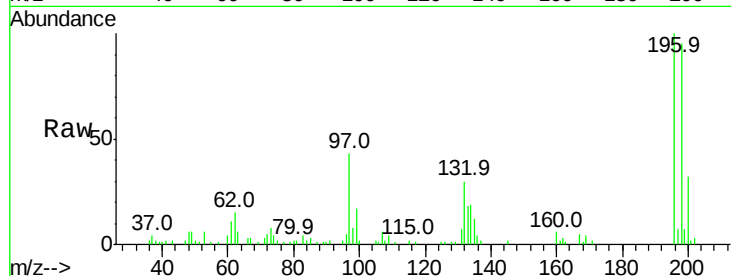




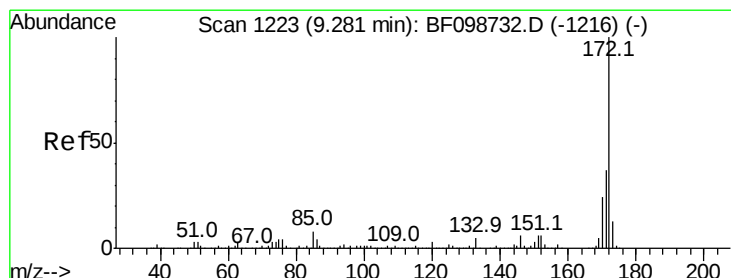
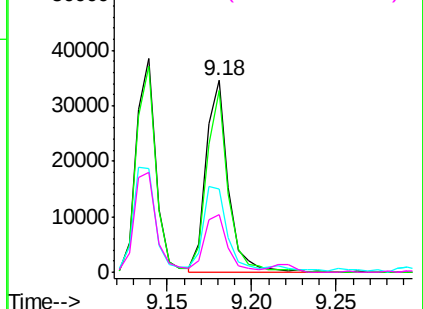
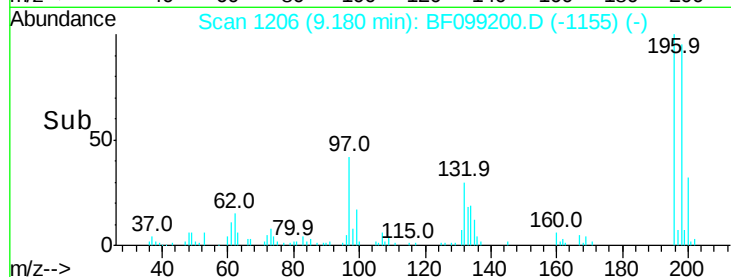
#43  
 2,4,5-Trichlorophenol  
 Concen: 8.571 ng  
 RT: 9.18 min Scan# 1206  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

| Tot Ion: | 196   | Resp: | 31929 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 196      | 100   |       |       |
| 198      | 94.5  | 74.6  | 112.0 |
| 97       | 43.3  | 42.9  | 64.3  |
| 132      | 30.3  | 26.3  | 39.5  |

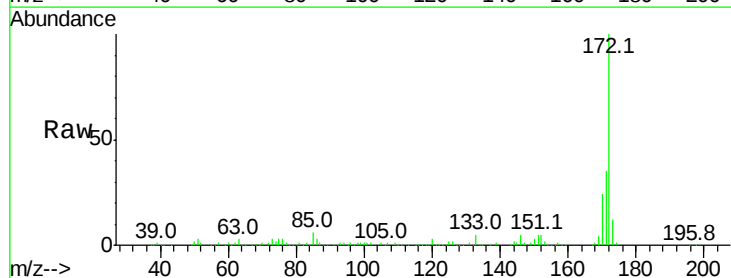


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF0  
 Ion 132.00 (131.70 to 132.70): E

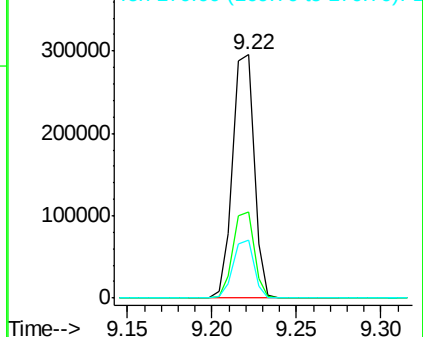
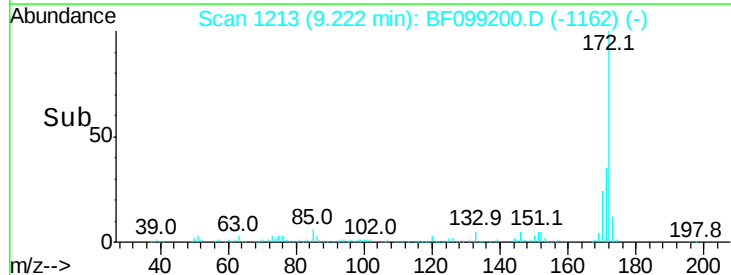


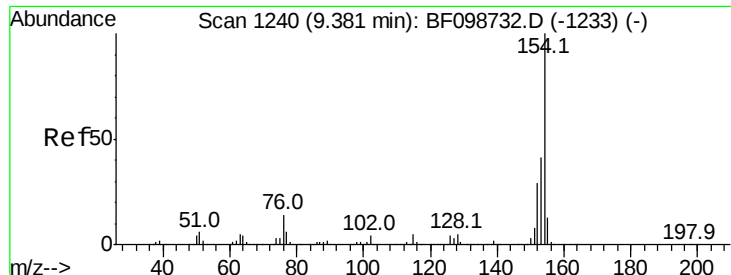
#44  
 2-Fluorobiphenyl  
 Concen: 24.765 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

| Tgt Ion: | 172   | Resp: | 262019 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 35.3  | 29.7  | 44.5   |
| 170      | 23.6  | 19.6  | 29.4   |



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

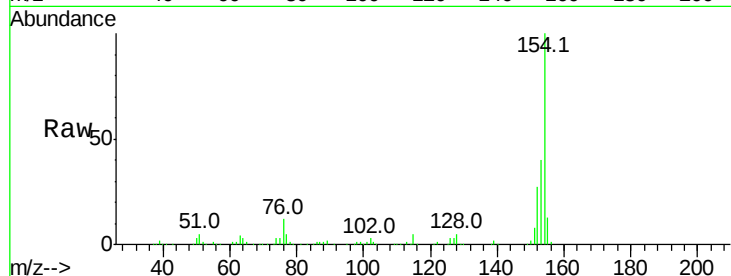




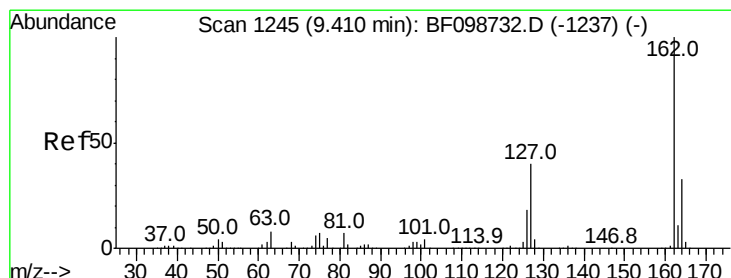
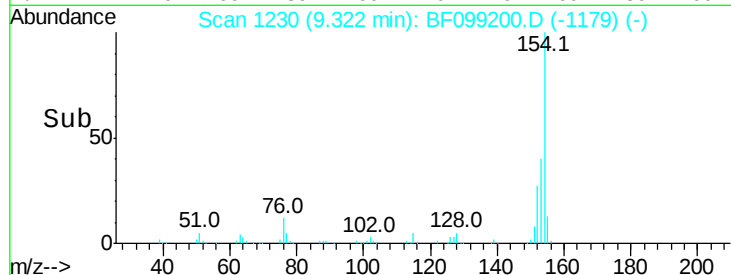
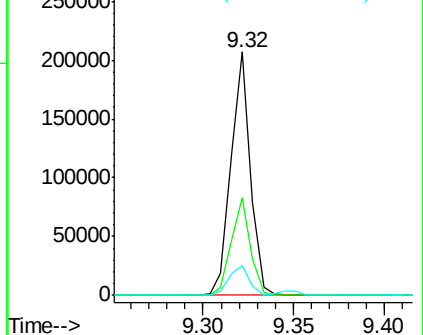
#45  
 1,1'-Biphenyl  
 Concen: 10.179 ng  
 RT: 9.32 min Scan# 1230  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion:154 Resp: 154512  
 Ion Ratio Lower Upper  
 154 100  
 153 39.9 21.3 61.3  
 76 12.5 0.0 34.0

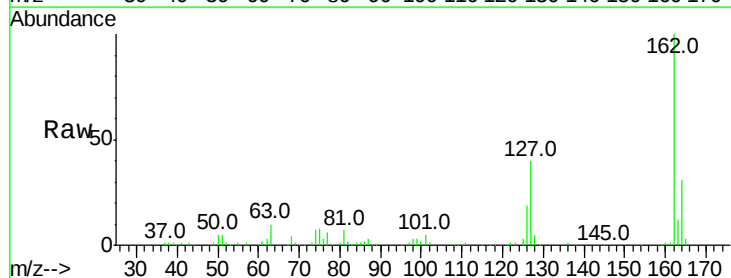


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF0

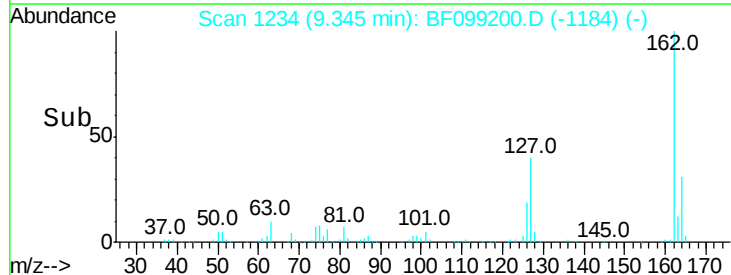
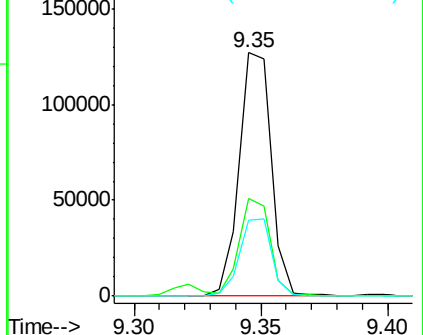


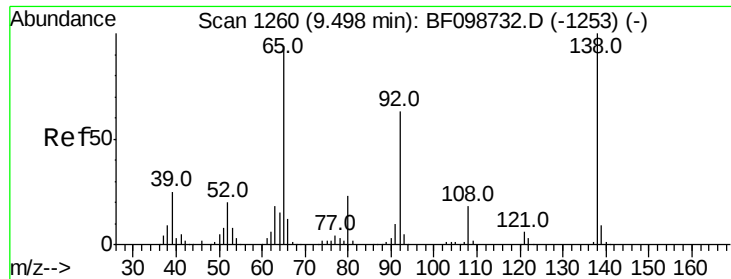
#46  
 2-Chloronaphthalene  
 Concen: 9.824 ng  
 RT: 9.35 min Scan# 1234  
 Delta R.T. -0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion:162 Resp: 111968  
 Ion Ratio Lower Upper  
 162 100  
 127 40.1 33.9 50.9  
 164 31.3 26.5 39.7



Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 9.247 ng

RT: 9.45 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

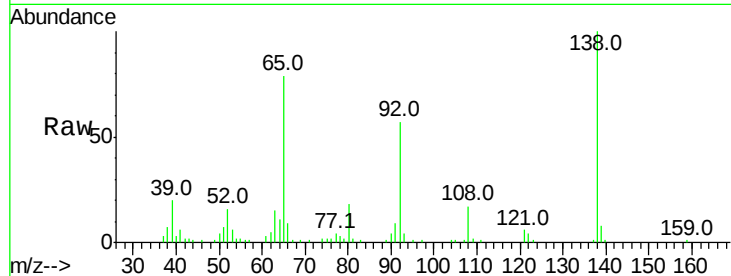
Tot Ion: 65 Resp: 32271

Ion Ratio Lower Upper

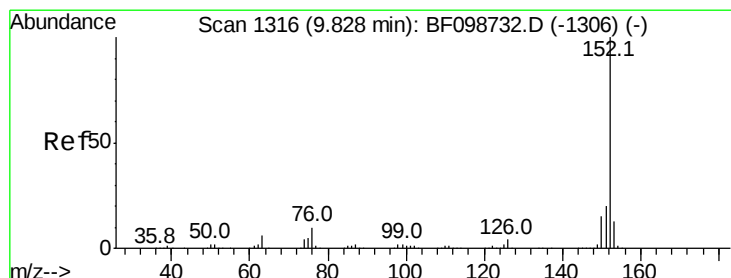
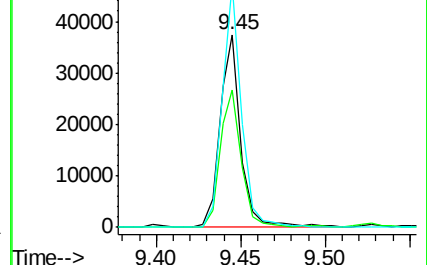
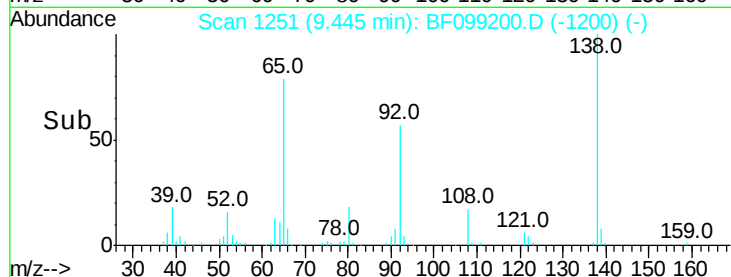
65 100

92 71.5 55.8 83.6

138 126.5 91.2 136.8



Abundance Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#48

Acenaphthylene

Concen: 10.472 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

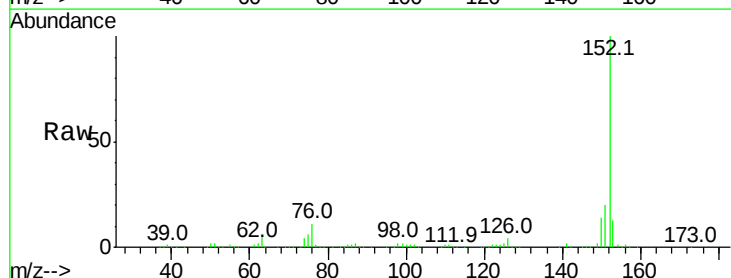
Tgt Ion:152 Resp: 182717

Ion Ratio Lower Upper

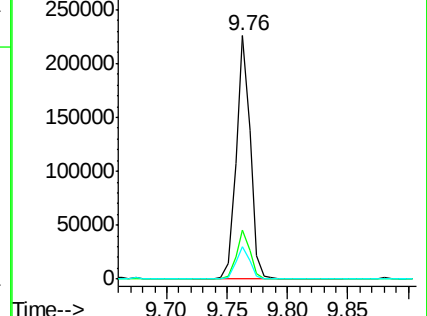
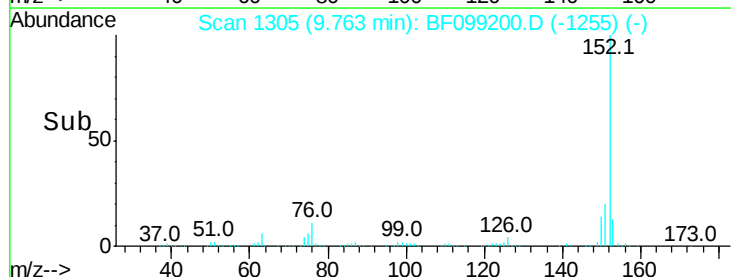
152 100

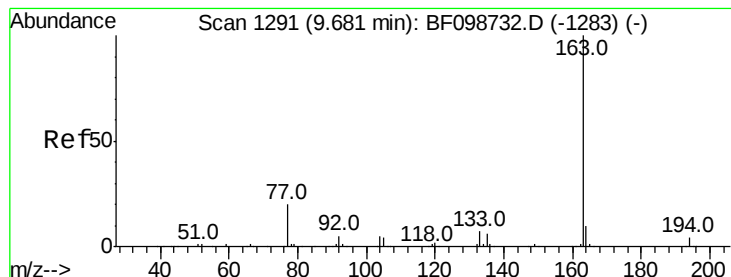
151 20.0 16.3 24.5

153 13.3 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 12.178 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

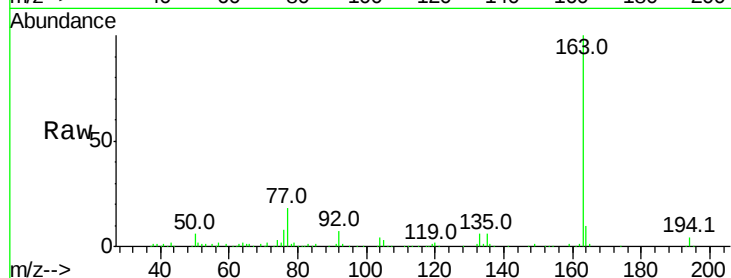
Tot Ion:163 Resp: 162339

Ion Ratio Lower Upper

163 100

194 3.8 2.7 4.1

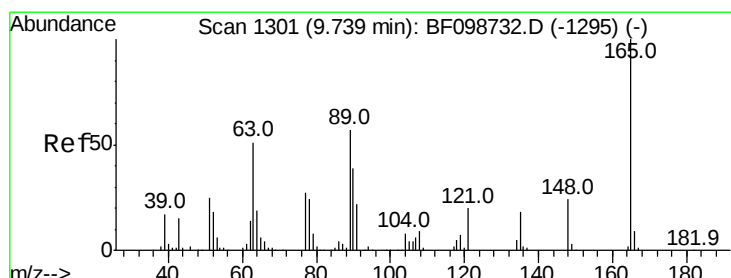
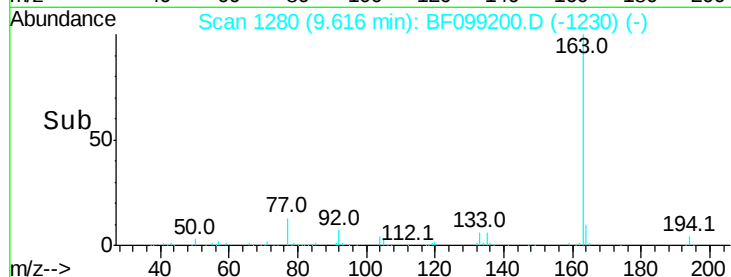
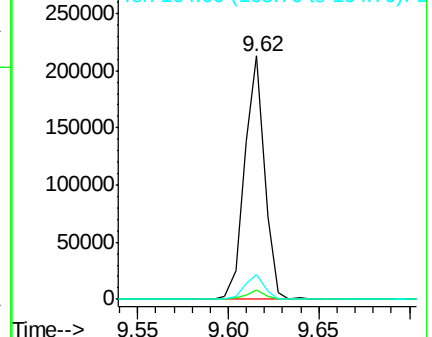
164 10.2 8.2 12.2



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: 6.829 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

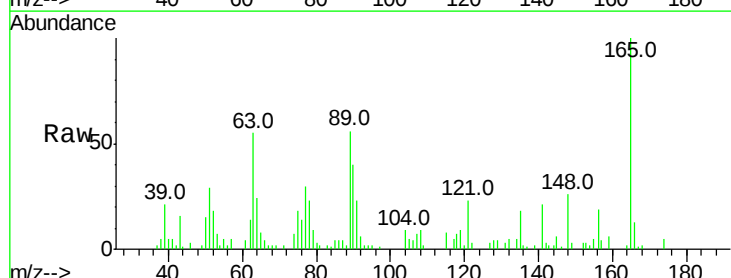
Tgt Ion:165 Resp: 19820

Ion Ratio Lower Upper

165 100

63 55.5 44.7 67.1

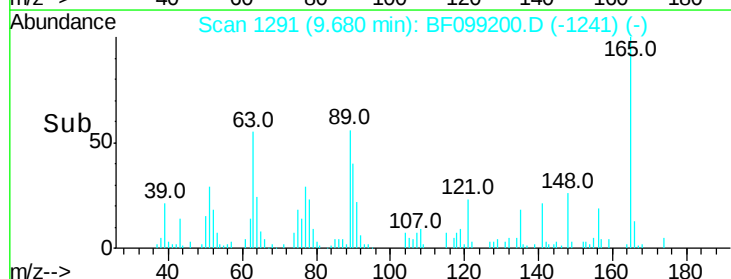
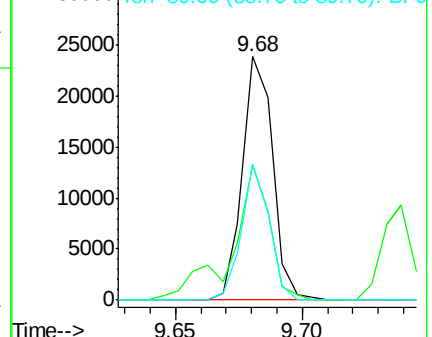
89 55.7 44.0 66.0

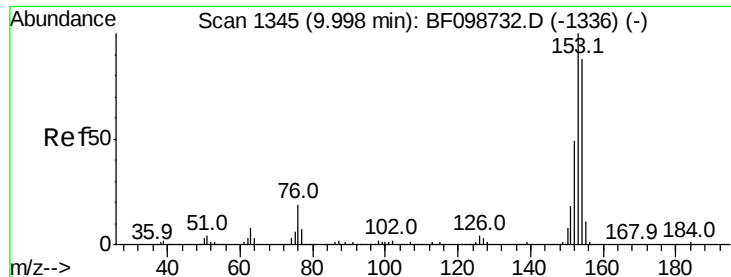


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 10.501 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

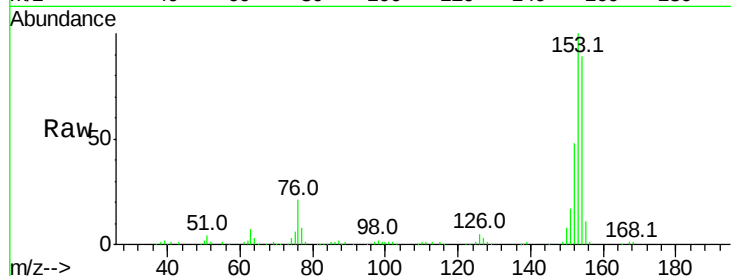
Tot Ion:154 Resp: 116059

Ion Ratio Lower Upper

154 100

153 112.7 91.2 136.8

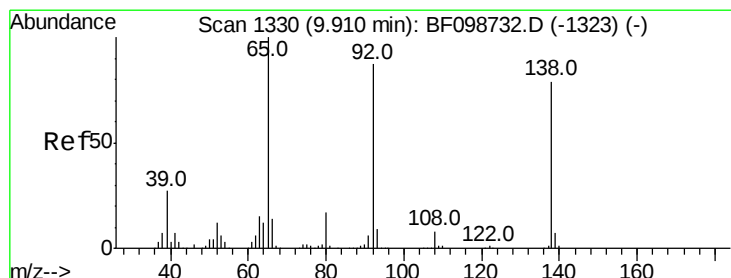
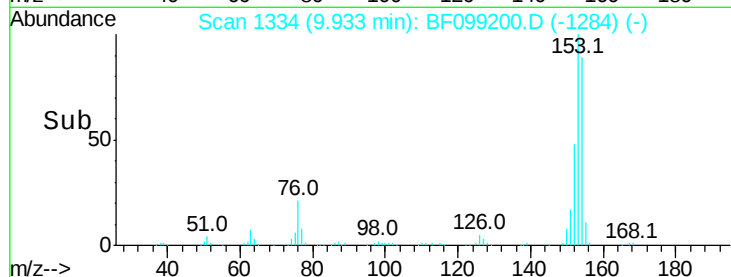
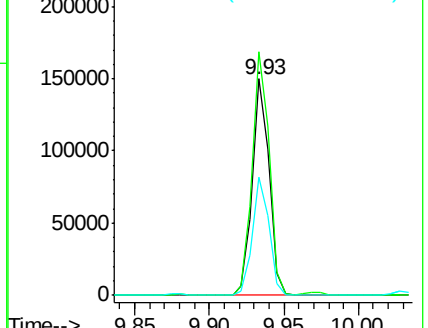
152 54.6 43.8 65.8



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: 9.199 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

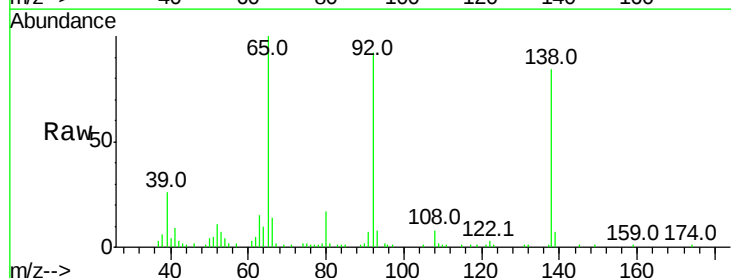
Tgt Ion:138 Resp: 31130

Ion Ratio Lower Upper

138 100

108 9.0 9.4 14.0#

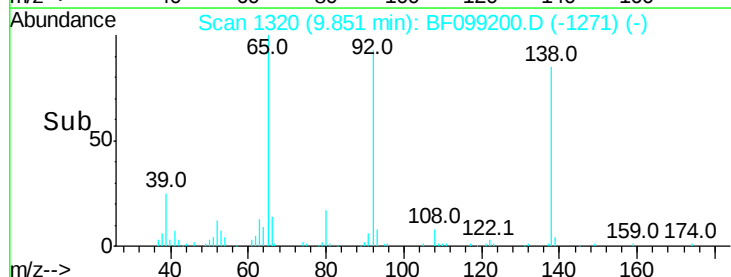
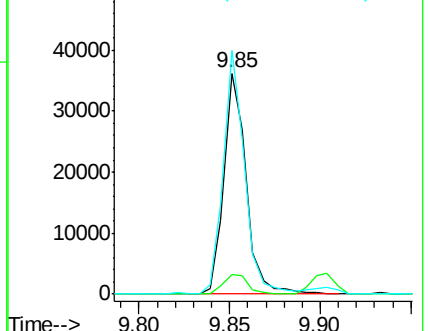
92 110.2 89.4 134.2

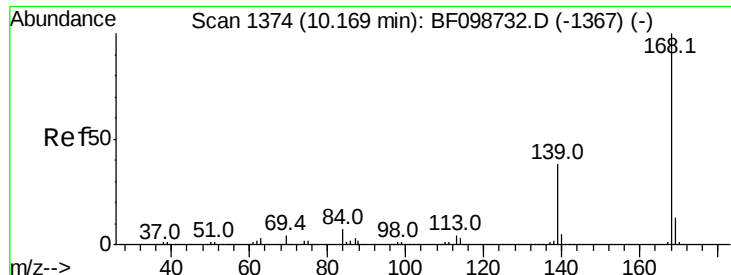


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





#54

Dibenzofuran

Concen: 11.095 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

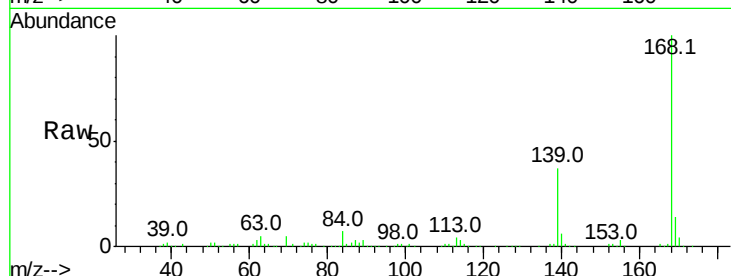
Tot Ion:168 Resp: 163261

Ion Ratio Lower Upper

168 100

139 37.3 30.1 45.1

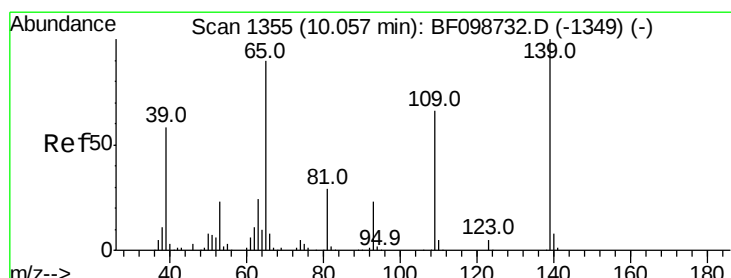
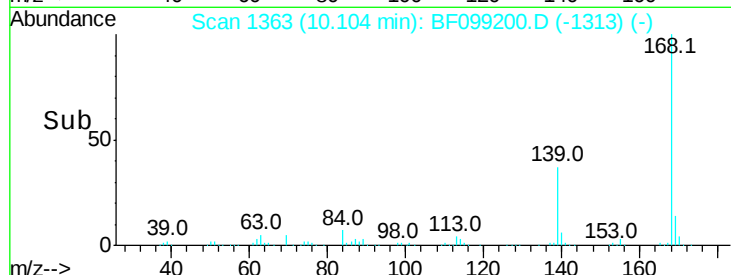
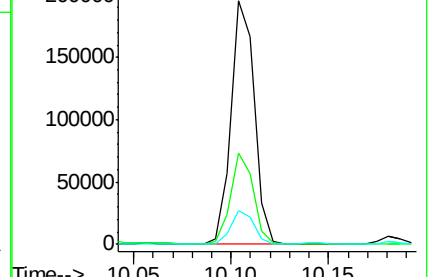
169 13.7 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 10.406 ng

RT: 10.02 min Scan# 1348

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

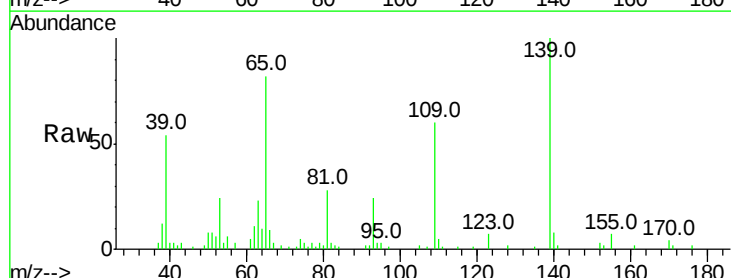
Tgt Ion:139 Resp: 29775

Ion Ratio Lower Upper

139 100

109 59.8 48.4 88.4

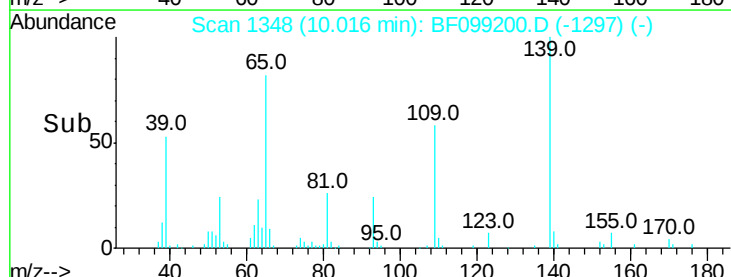
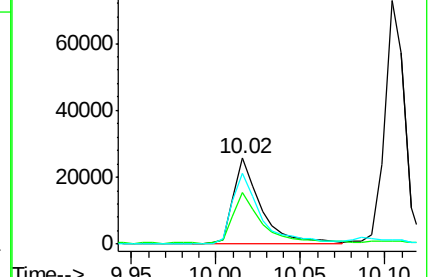
65 82.2 72.6 112.6

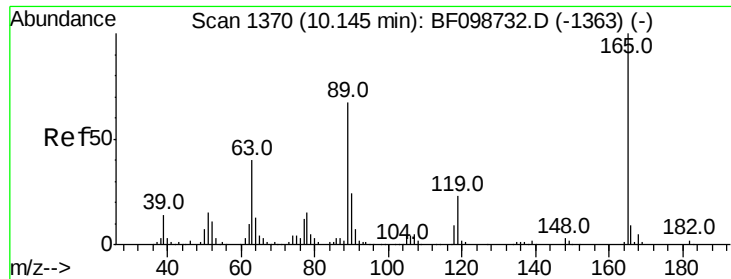


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.040 ng

RT: 10.09 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

Tot Ion:165 Resp: 22751

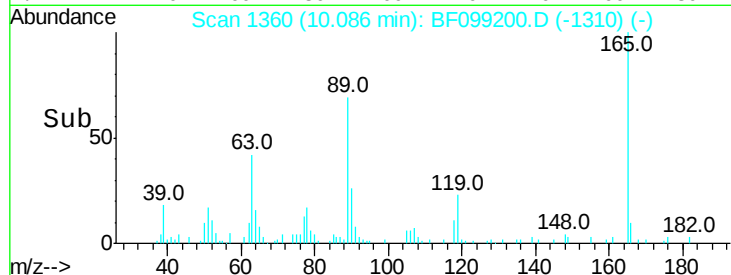
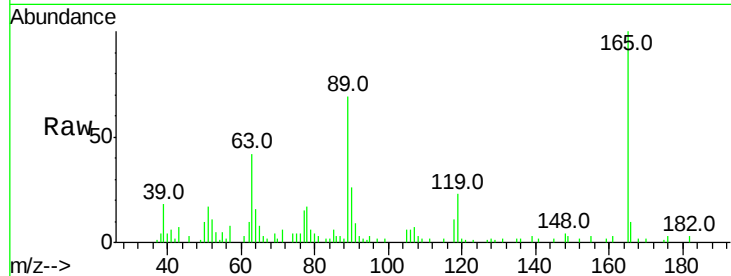
Ion Ratio Lower Upper

165 100

63 42.5 36.4 54.6

89 69.3 57.8 86.6

182 2.6 1.6 2.4#

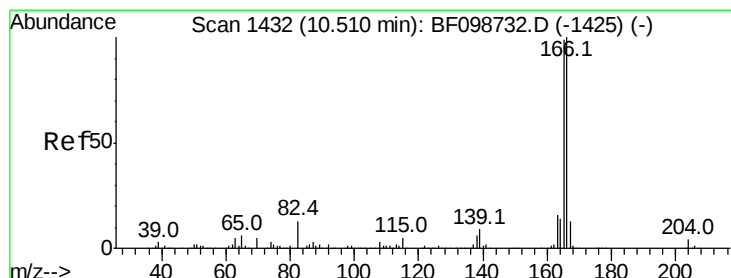
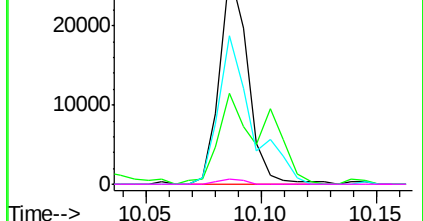


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 11.983 ng

RT: 10.45 min Scan# 1422

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

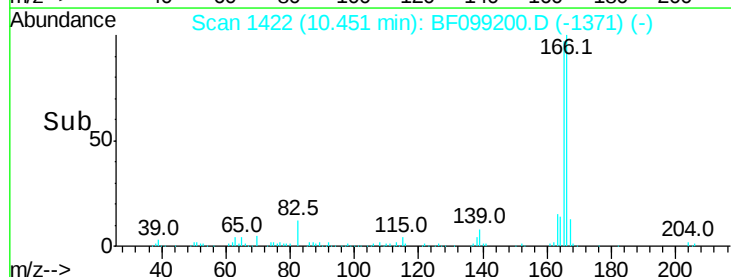
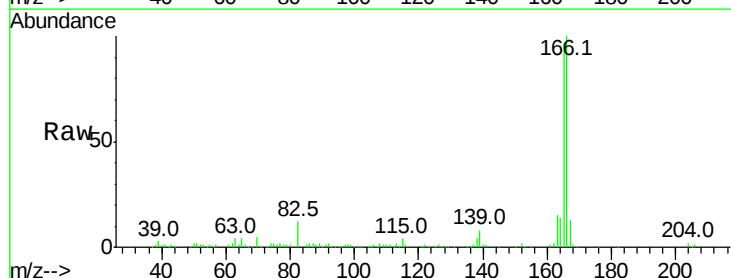
Tgt Ion:166 Resp: 141727

Ion Ratio Lower Upper

166 100

165 96.7 79.8 119.8

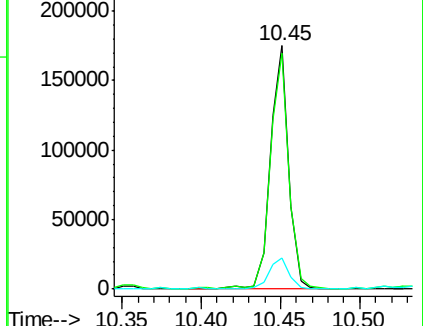
167 13.0 10.6 16.0

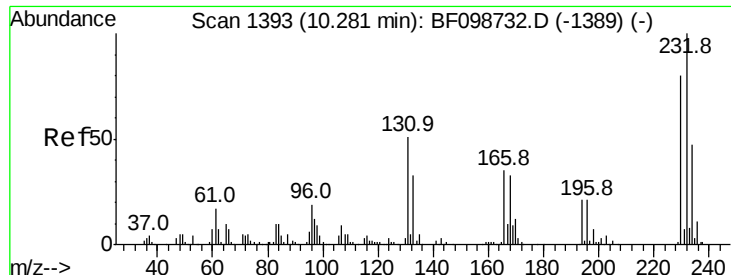


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

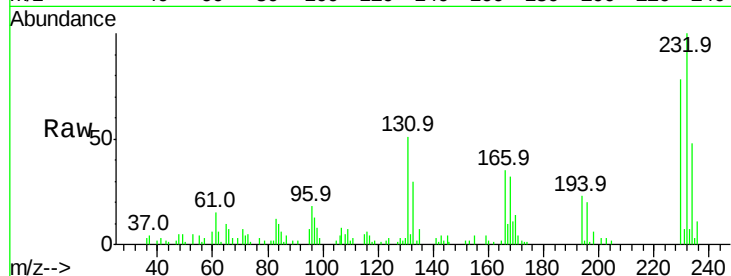




#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 7.892 ng  
 RT: 10.23 min Scan# 1384  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 59.2  | 43.8  | 65.8  |
| 130     | 3.6   | 2.1   | 3.1   |
| 166     | 35.8  | 27.8  | 41.6  |

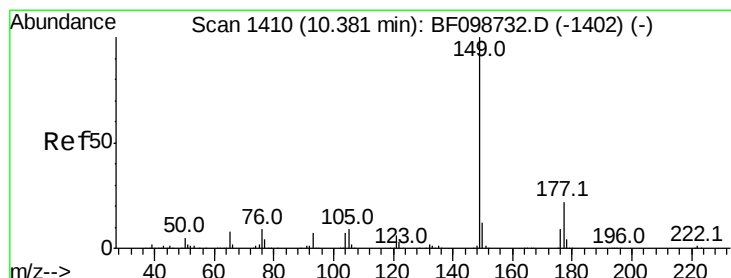
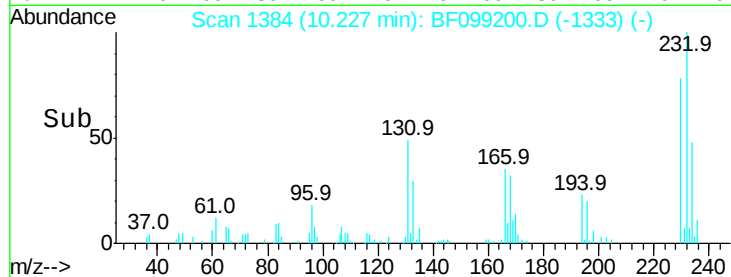
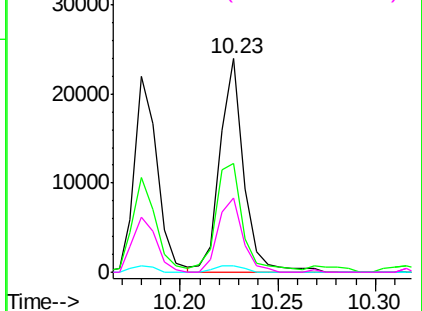


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

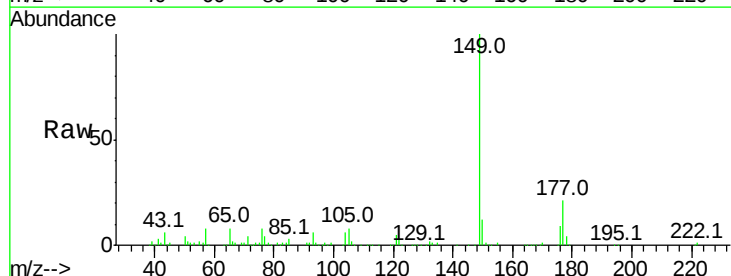
Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#59  
 Diethylphthalate  
 Concen: 9.213 ng  
 RT: 10.32 min Scan# 1399  
 Delta R.T. -0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

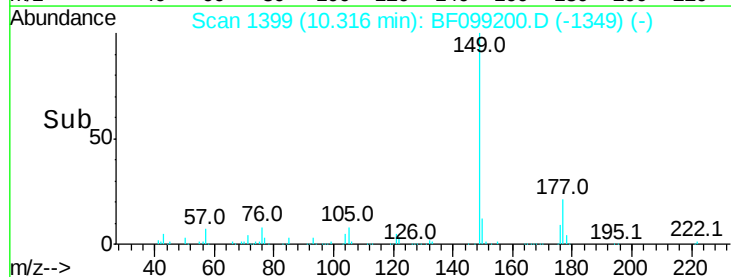
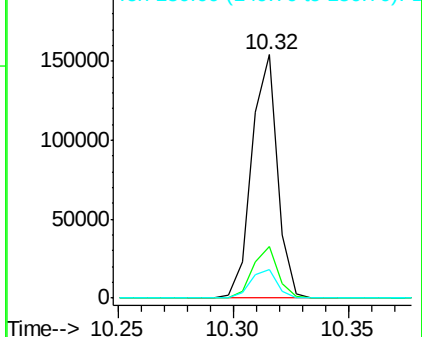
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 21.1  | 16.1  | 24.1  |
| 150     | 11.9  | 10.1  | 15.1  |

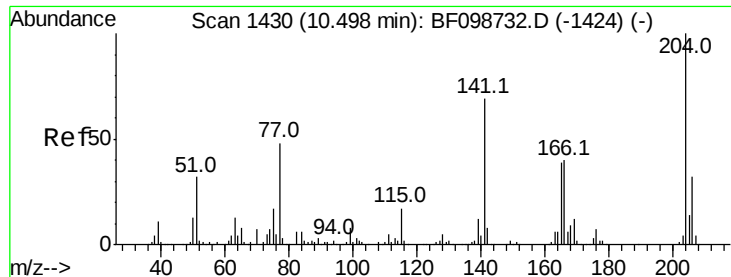


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

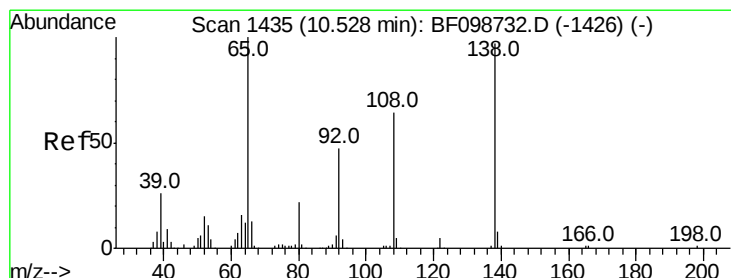
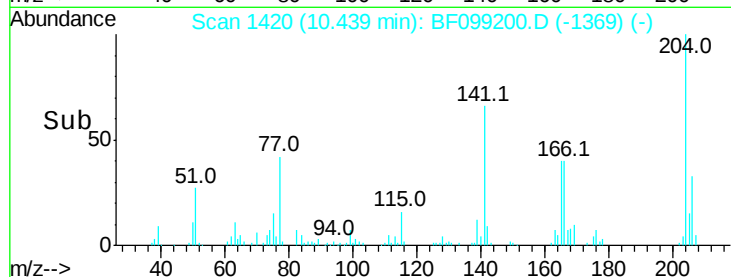
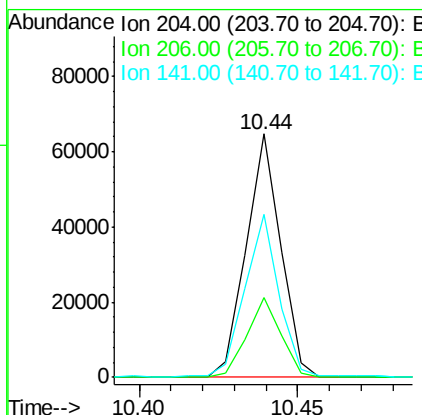
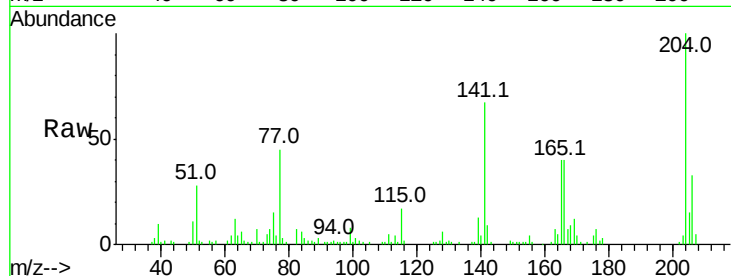




#60  
4-Chlorophenyl-phenylether  
Concen: 9.174 ng  
RT: 10.44 min Scan# 1420  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

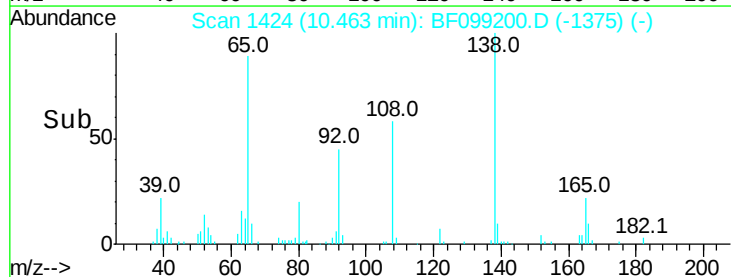
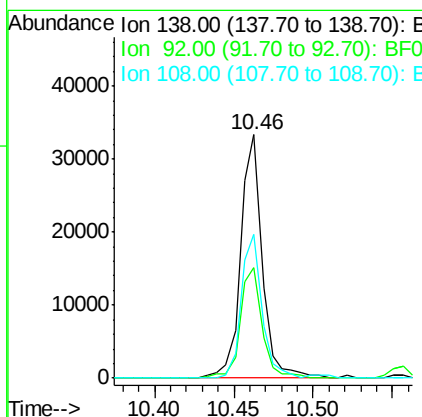
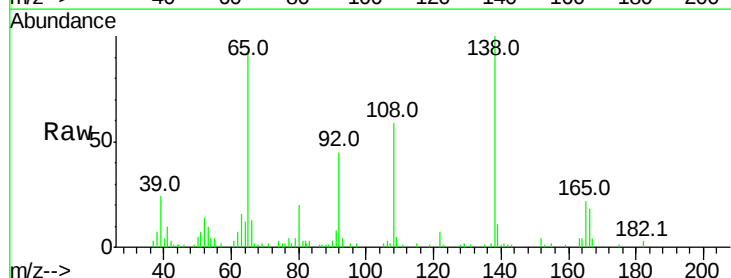
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

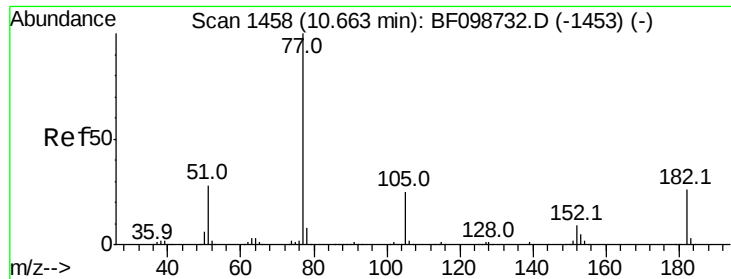
Tot Ion:204 Resp: 48742  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.5 39.7  
141 67.1 54.6 81.8



#61  
4-Nitroaniline  
Concen: 9.643 ng  
RT: 10.46 min Scan# 1424  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:138 Resp: 31480  
Ion Ratio Lower Upper  
138 100  
92 45.1 30.2 70.2  
108 59.0 52.5 92.5





#62

Azobenzene

Concen: 8.248 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

Tot Ion: 77 Resp: 98784

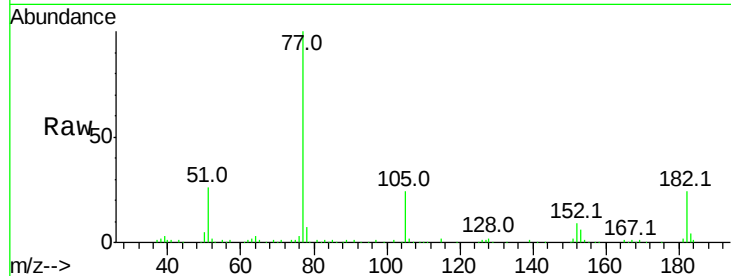
Ion Ratio Lower Upper

77 100

182 24.3 1.7 41.7

105 24.5 3.0 43.0

51 26.0 9.9 49.9

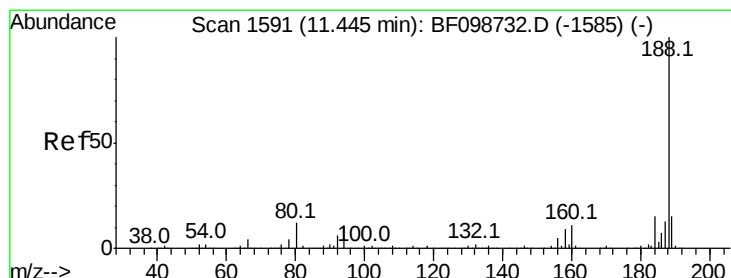
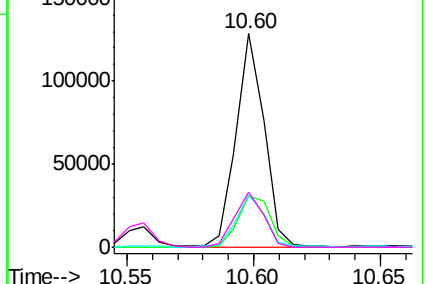
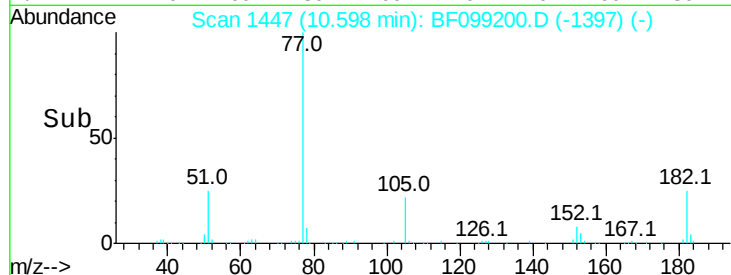


Abundance Ion 77.00 (76.70 to 77.70): BF0

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: 20.000 ng

RT: 11.39 min Scan# 1582

Delta R.T. 0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

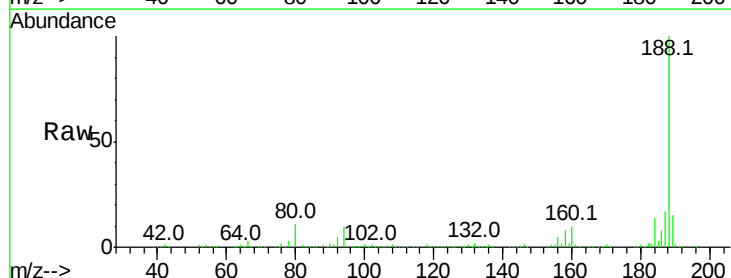
Tgt Ion: 188 Resp: 264811

Ion Ratio Lower Upper

188 100

94 9.6 8.5 12.7

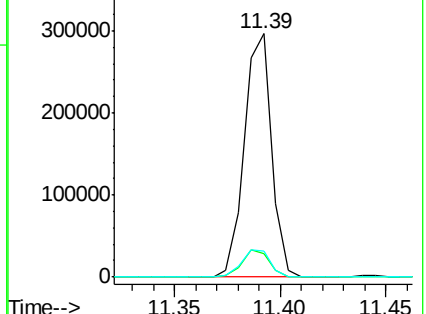
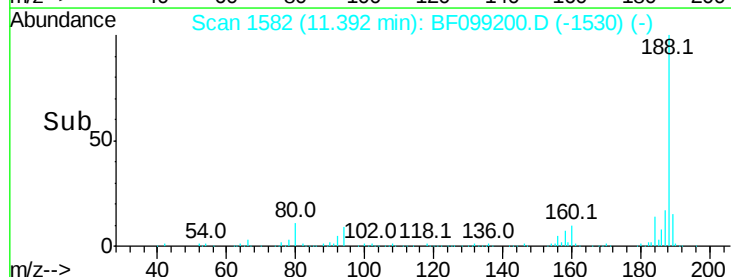
80 10.7 9.2 13.8

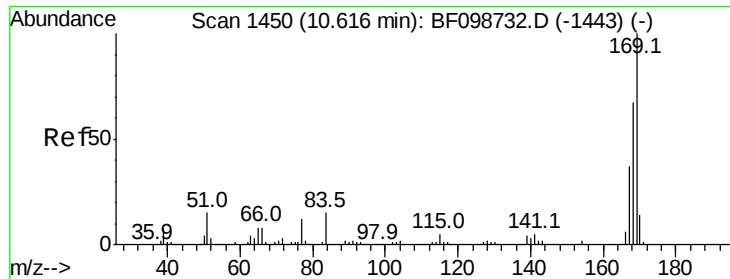


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

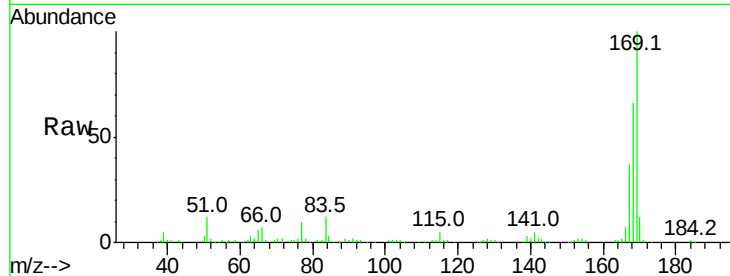




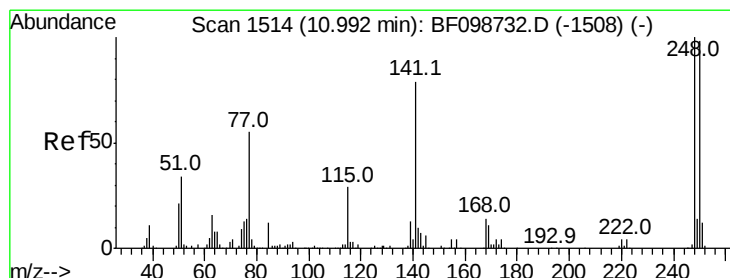
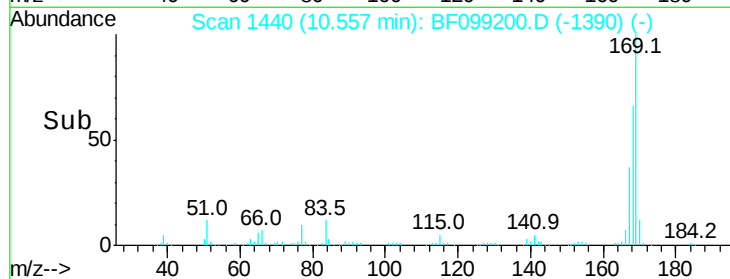
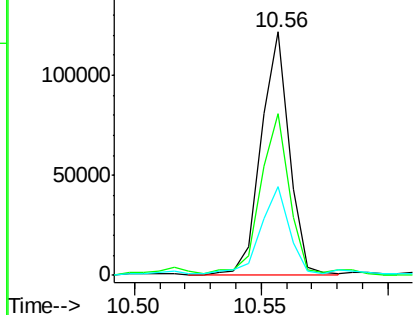
#65  
 n-Nitrosodiphenylamine  
 Concen: 10.281 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion:169 Resp: 94315  
 Ion Ratio Lower Upper  
 169 100  
 168 66.4 54.4 81.6  
 167 36.5 29.8 44.6

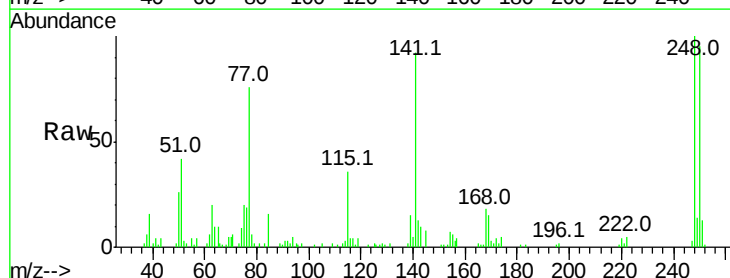


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

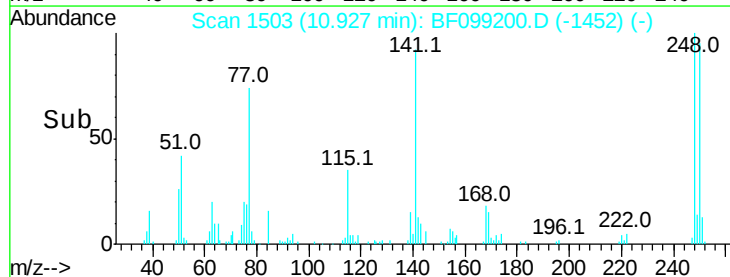
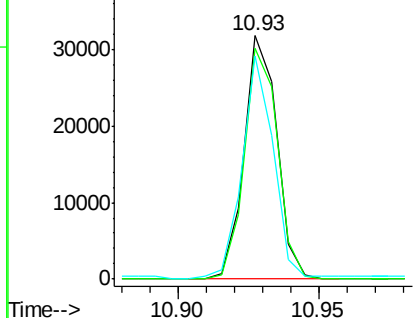


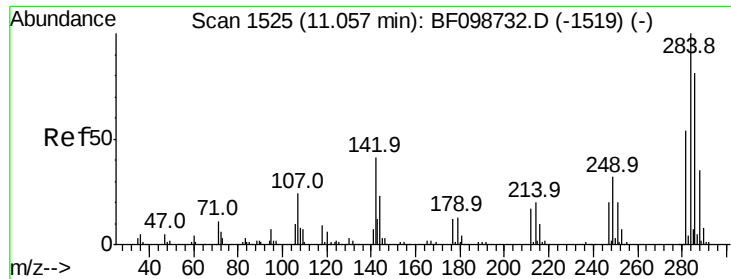
#66  
 4-Bromophenyl-phenylether  
 Concen: 9.900 ng  
 RT: 10.93 min Scan# 1503  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion:248 Resp: 25661  
 Ion Ratio Lower Upper  
 248 100  
 250 94.9 76.9 115.3  
 141 91.6 74.4 111.6



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

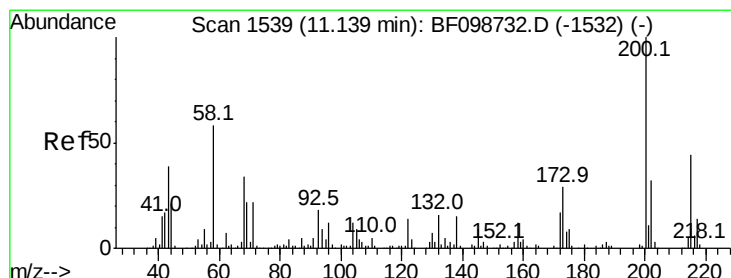
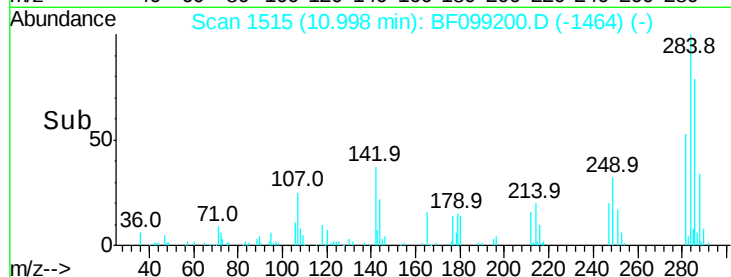
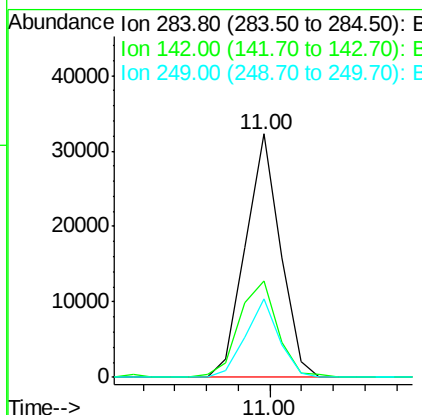
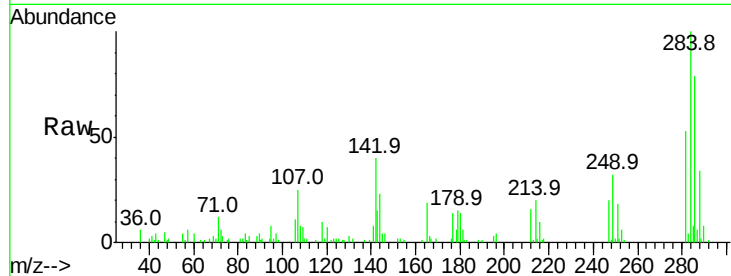




#67  
Hexachlorobenzene  
Concen: 8.894 ng  
RT: 11.00 min Scan# 1515  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

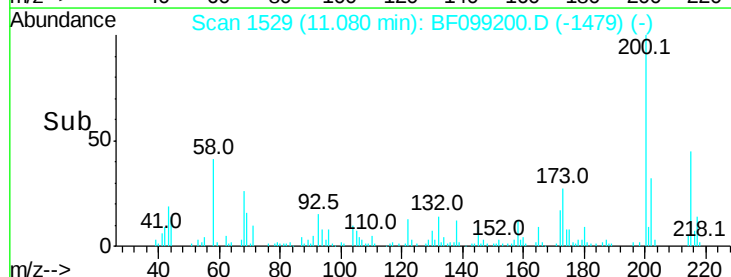
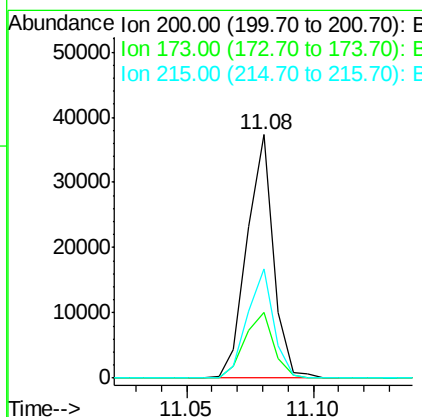
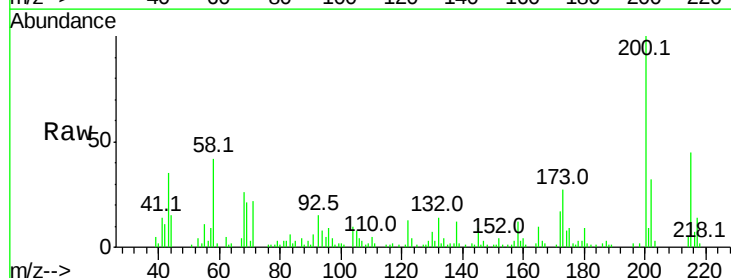
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

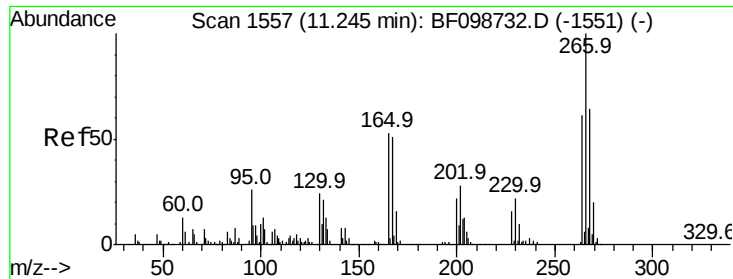
Tot Ion:284 Resp: 24623  
Ion Ratio Lower Upper  
284 100  
142 39.6 34.6 52.0  
249 32.0 24.8 37.2



#68  
Atrazine  
Concen: 9.832 ng  
RT: 11.08 min Scan# 1529  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:200 Resp: 27137  
Ion Ratio Lower Upper  
200 100  
173 27.2 8.6 48.6  
215 44.7 25.1 65.1

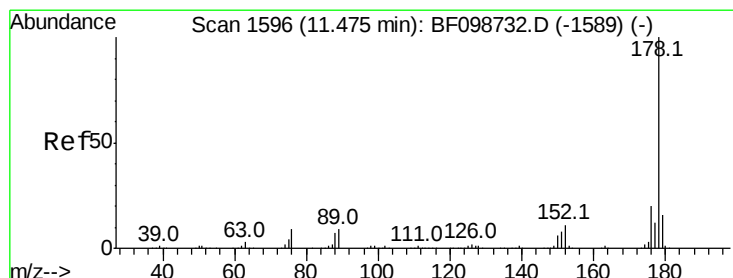
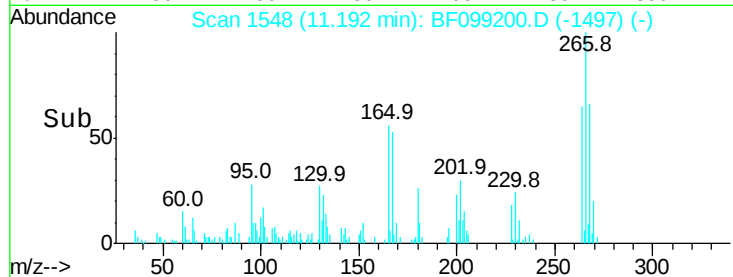
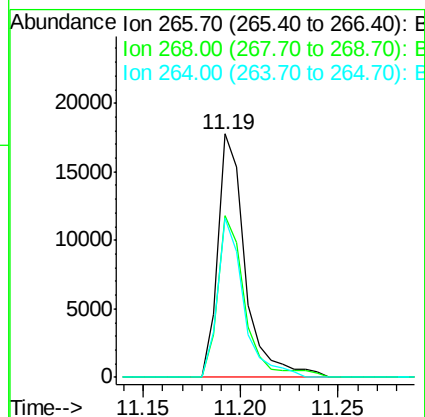
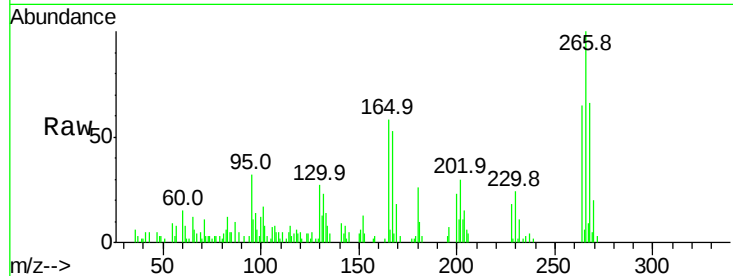




#69  
 Pentachlorophenol  
 Concen: 10.064 ng  
 RT: 11.19 min Scan# 1548  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

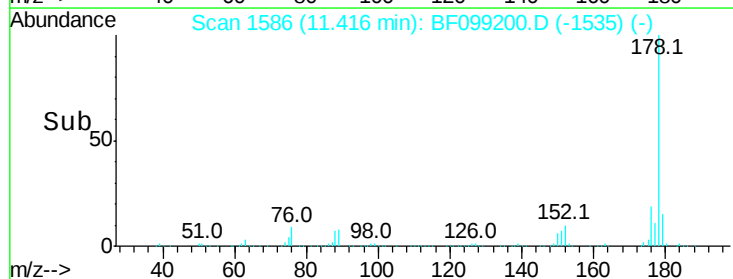
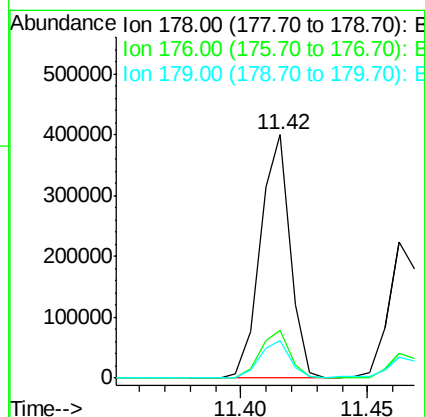
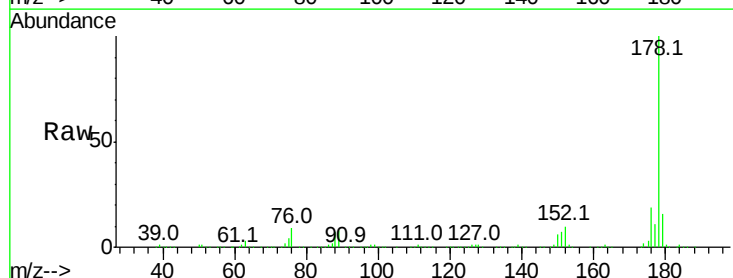
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

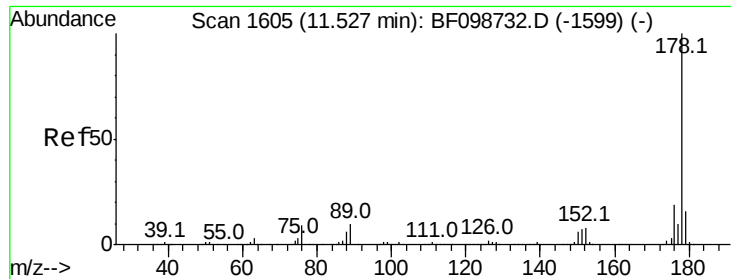
Tot Ion:266 Resp: 17340  
 Ion Ratio Lower Upper  
 266 100  
 268 66.2 51.1 76.7  
 264 65.2 49.5 74.3



#70  
 Phenanthrene  
 Concen: 23.186 ng  
 RT: 11.42 min Scan# 1586  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion:178 Resp: 328652  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 15.8 23.8  
 179 15.5 13.0 19.6

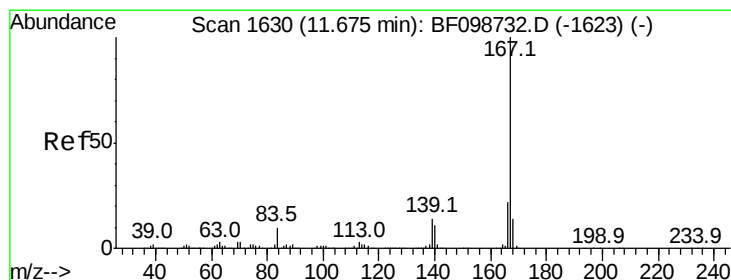
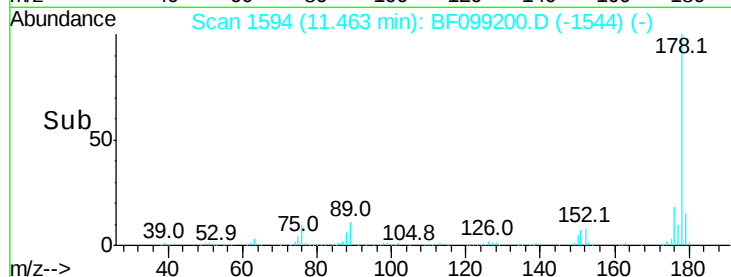
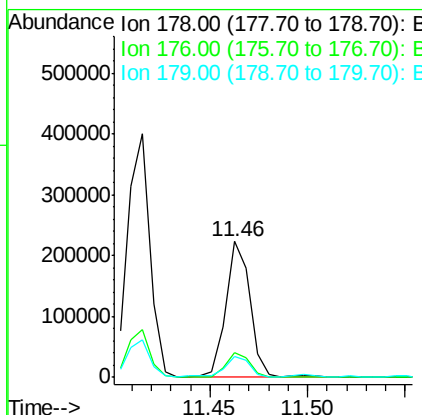
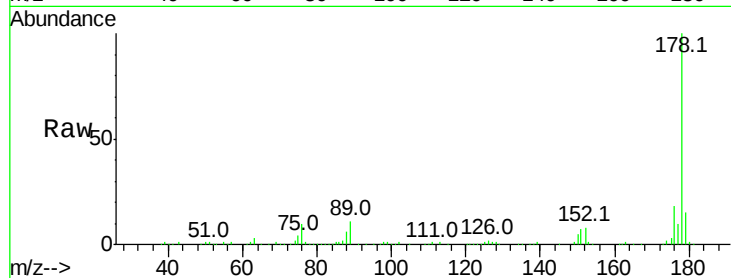




#71  
 Anthracene  
 Concen: 13.198 ng  
 RT: 11.46 min Scan# 1594  
 Delta R.T. -0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

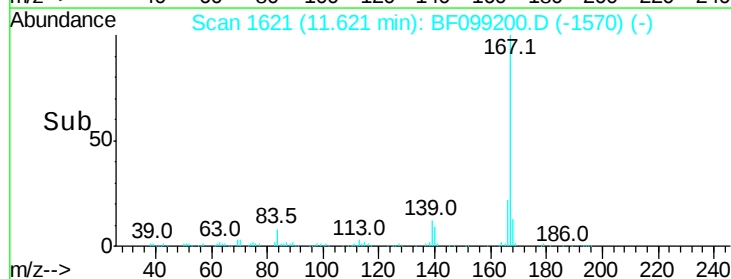
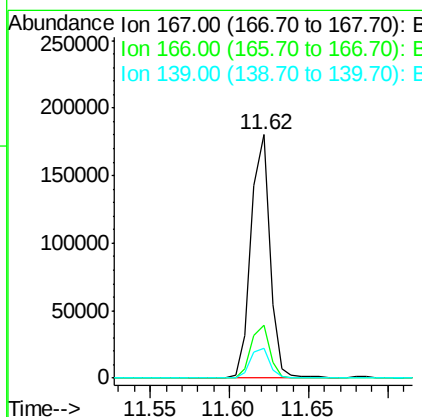
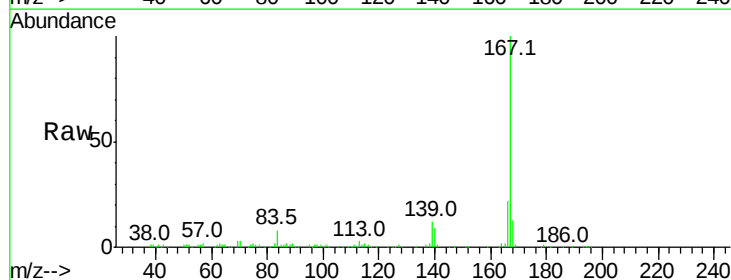
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

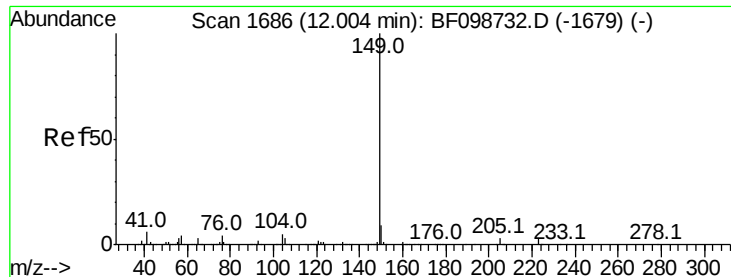
Tot Ion:178 Resp: 191408  
 Ion Ratio Lower Upper  
 178 100  
 176 18.0 15.4 23.2  
 179 15.4 12.6 19.0



#72  
 Carbazole  
 Concen: 10.541 ng  
 RT: 11.62 min Scan# 1621  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion:167 Resp: 149715  
 Ion Ratio Lower Upper  
 167 100  
 166 21.7 17.6 26.4  
 139 12.1 10.9 16.3

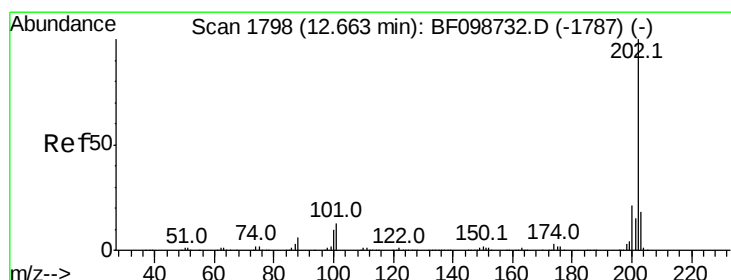
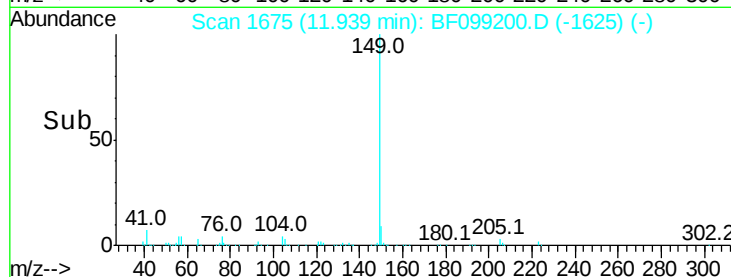
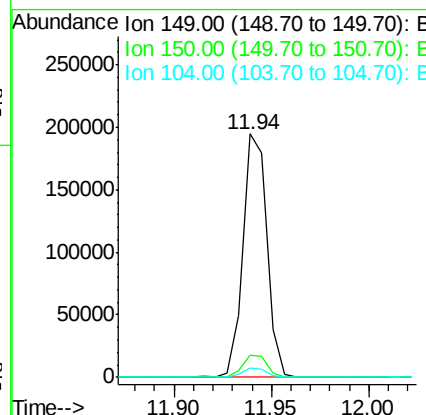
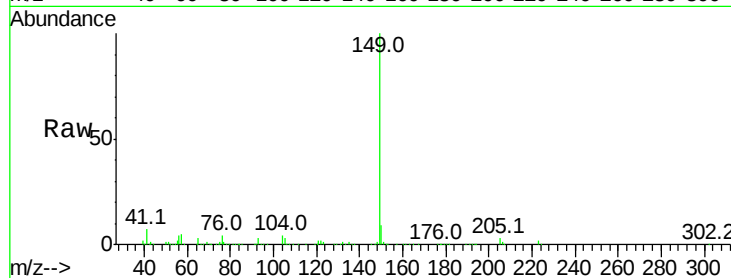




#73  
Di-n-butylphthalate  
Concen: 9.741 ng  
RT: 11.94 min Scan# 1675  
Delta R.T. -0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

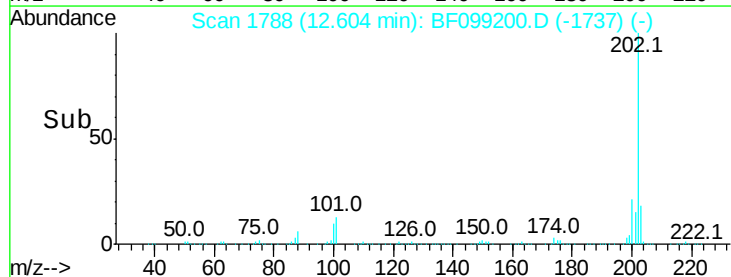
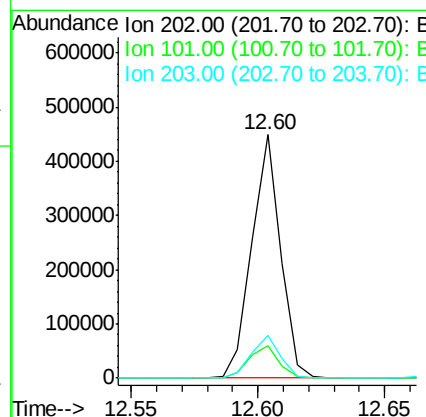
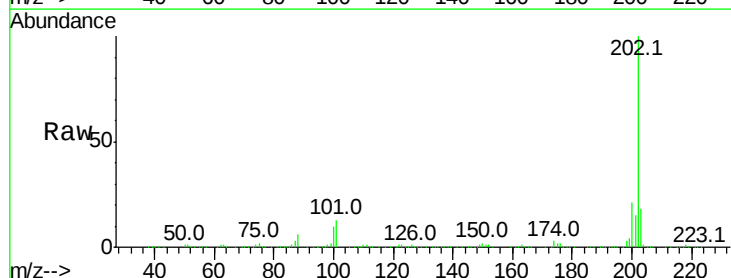
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

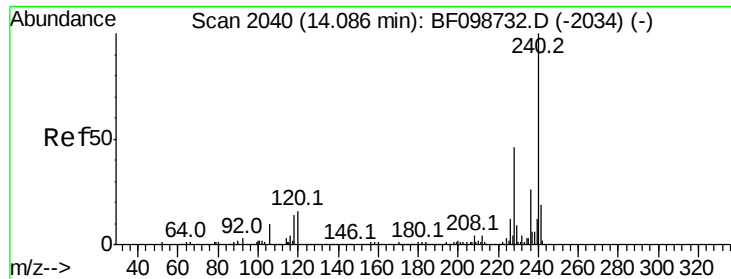
Tot Ion:149 Resp: 166532  
Ion Ratio Lower Upper  
149 100  
150 9.4 7.8 11.6  
104 4.1 3.8 5.8



#74  
Fluoranthene  
Concen: 24.639 ng  
RT: 12.60 min Scan# 1788  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:202 Resp: 353647  
Ion Ratio Lower Upper  
202 100  
101 13.3 0.0 34.1  
203 17.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

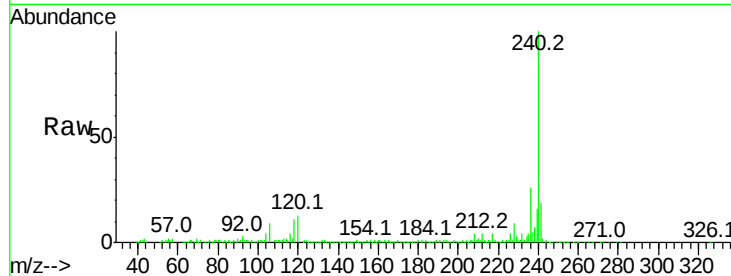
Tot Ion:240 Resp: 217870

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

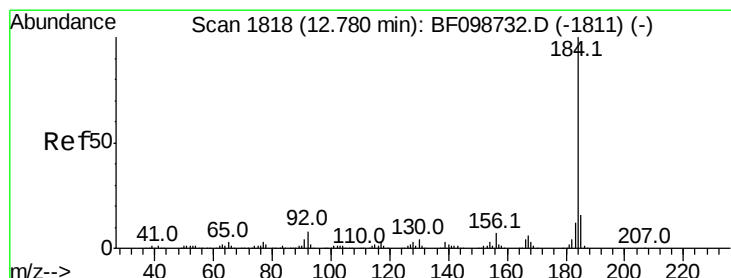
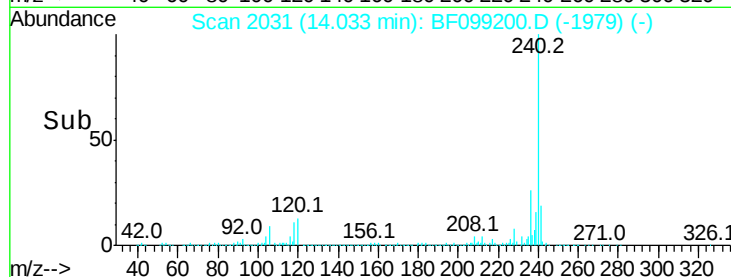
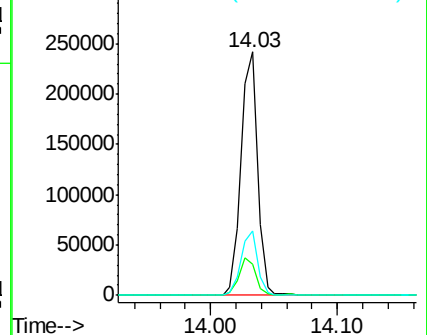
236 26.4 20.7 31.1



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: 6.660 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.00 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

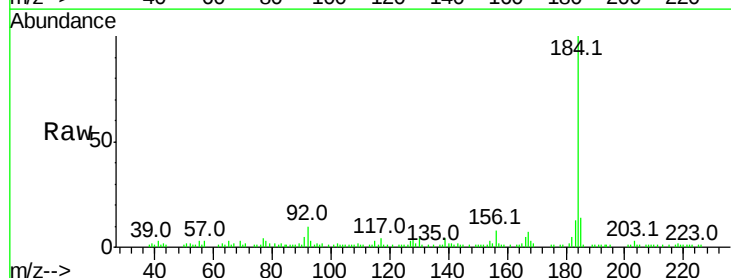
Tgt Ion:184 Resp: 53670

Ion Ratio Lower Upper

184 100

185 14.4 12.6 18.8

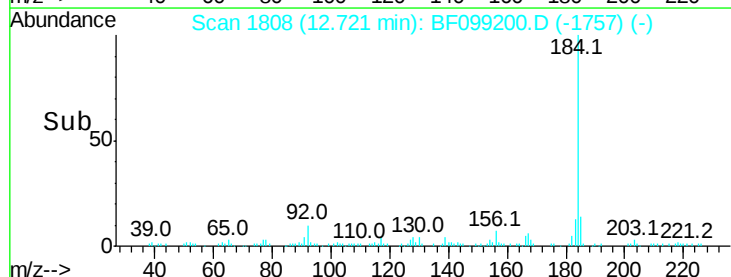
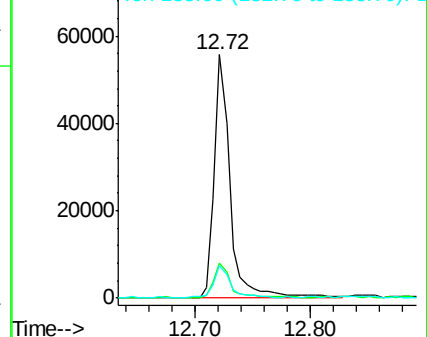
183 13.3 9.3 13.9

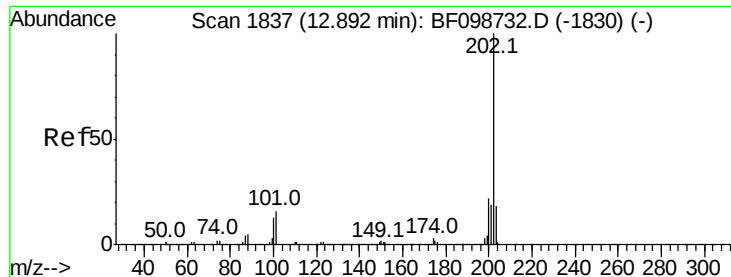


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

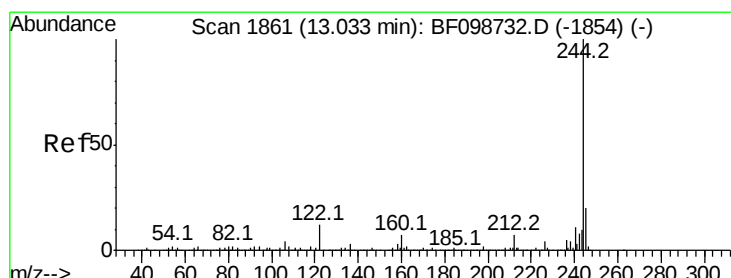
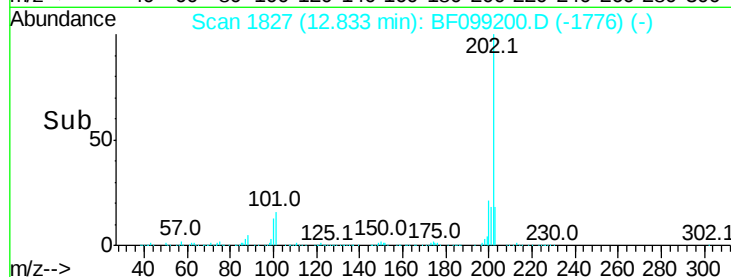
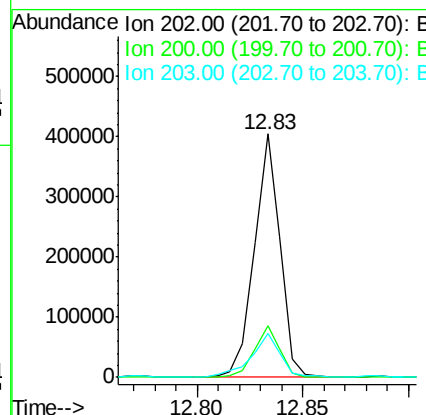
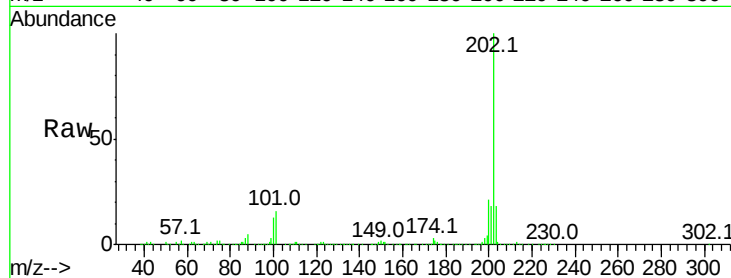




#77  
Pvrene  
Concen: 20.564 ng  
RT: 12.83 min Scan# 1827  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

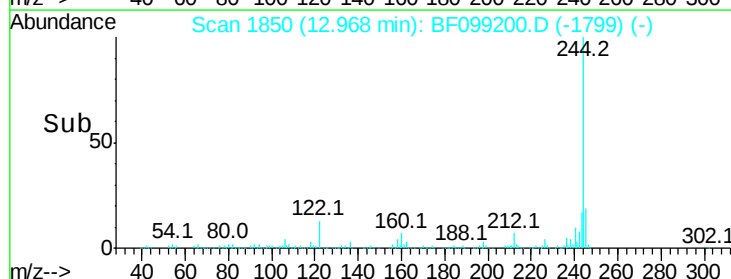
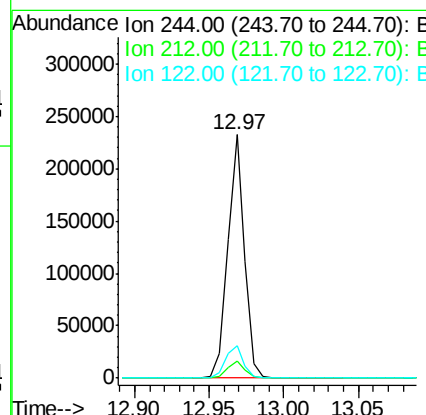
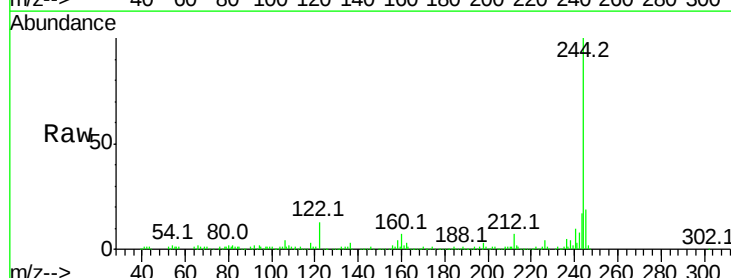
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

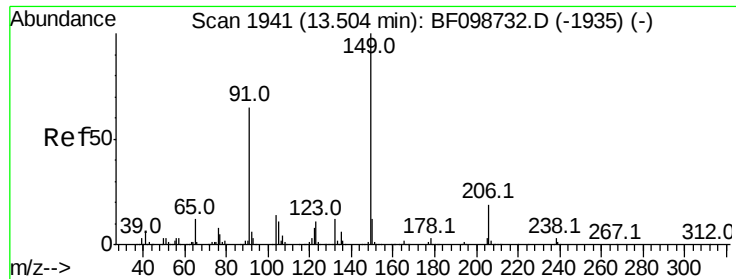
Tot Ion:202 Resp: 341643  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.4 26.2  
203 17.9 14.3 21.5



#78  
Terphenyl-d14  
Concen: 19.138 ng  
RT: 12.97 min Scan# 1850  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:244 Resp: 183342  
Ion Ratio Lower Upper  
244 100  
212 7.0 5.4 8.0  
122 13.4 11.0 16.4

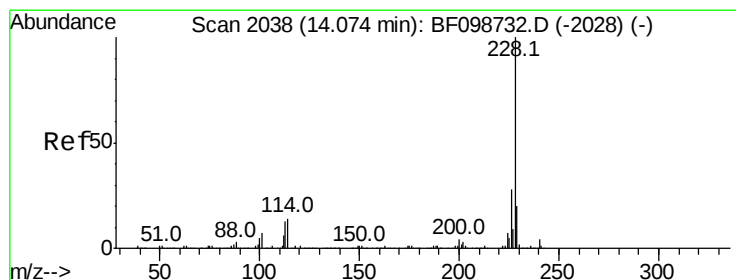
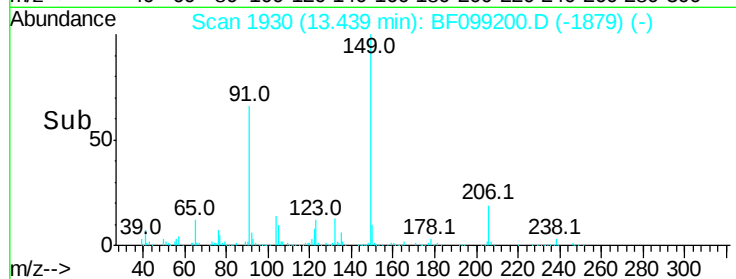
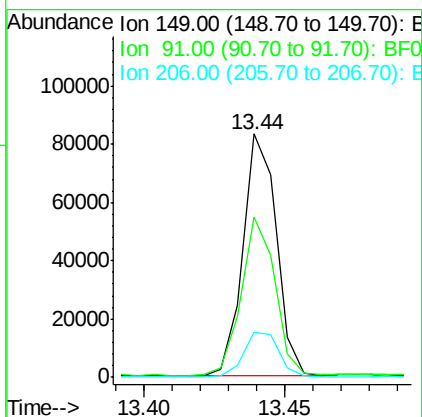
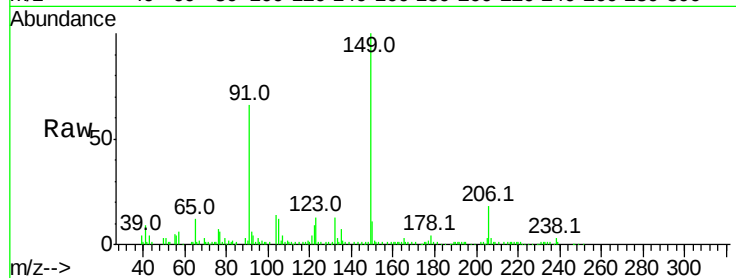




#79  
 Butylbenzylphthalate  
 Concen: 8.670 ng  
 RT: 13.44 min Scan# 1930  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

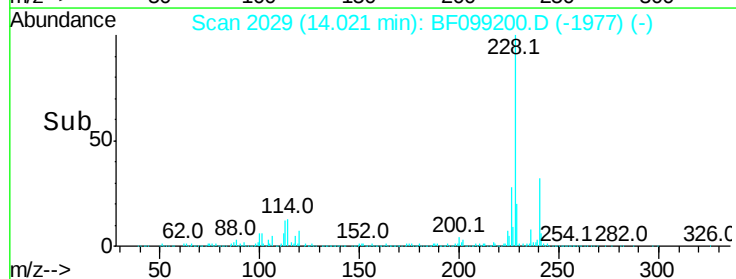
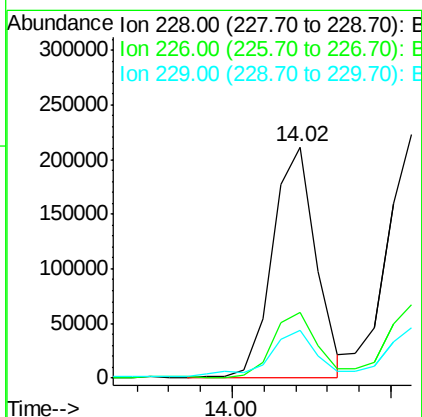
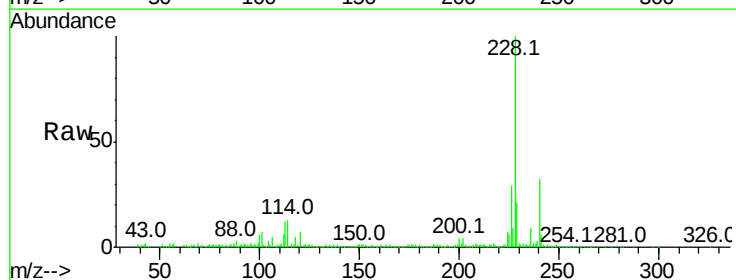
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

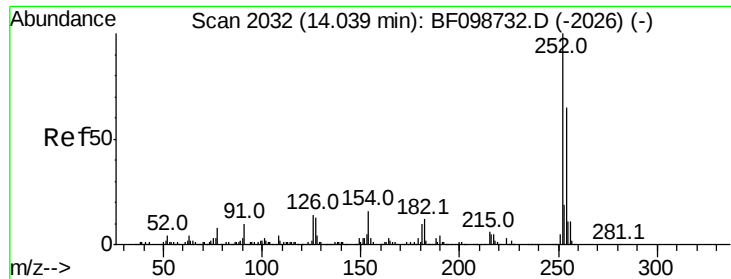
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 149   | Resp: | 67691 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 91       | 66.0  | 56.8  | 85.2  |
| 206      | 18.4  | 14.1  | 21.1  |



#80  
 Benzo(a)anthracene  
 Concen: 15.144 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. 0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 199786 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 28.6  | 22.6  | 33.8   |
| 229      | 20.5  | 15.8  | 23.6   |

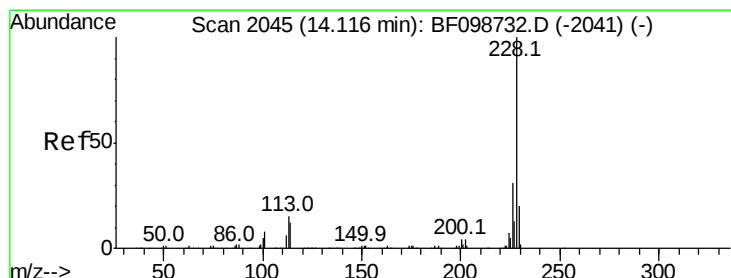
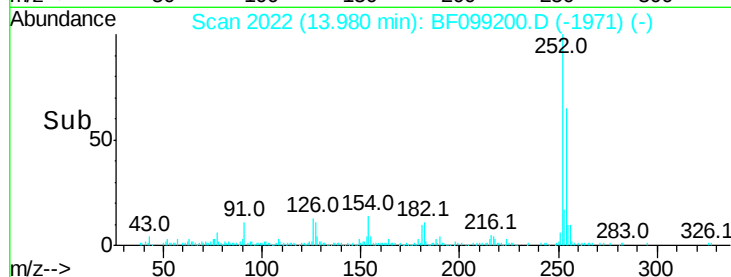
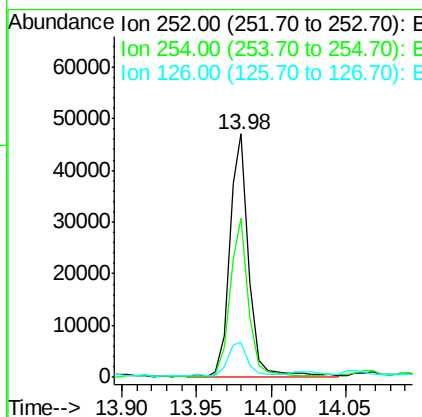
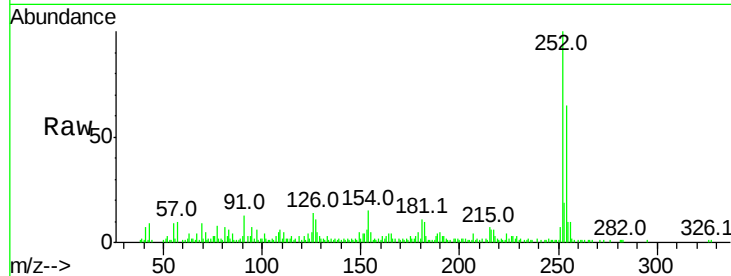




#81  
 3,3'-Dichlorobenzidine  
 Concen: 8.933 ng  
 RT: 13.98 min Scan# 2022  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

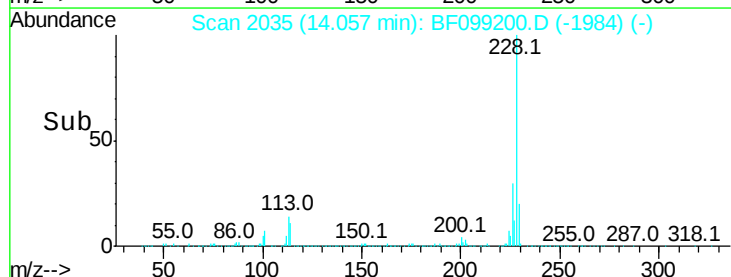
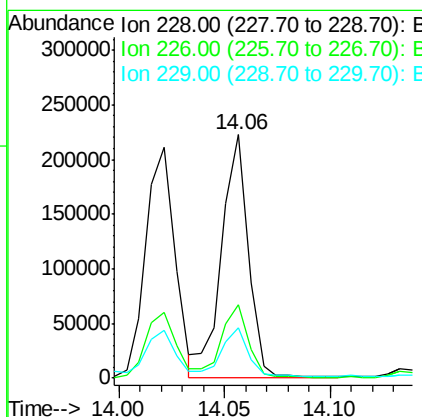
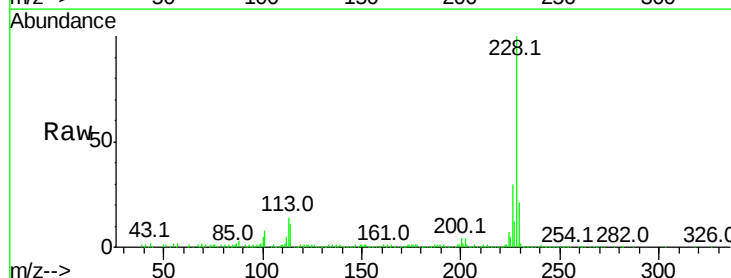
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

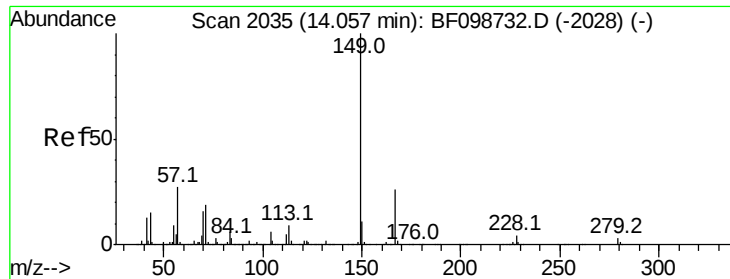
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 65.3  | 50.4  | 75.6  |
| 126     | 14.1  | 11.3  | 16.9  |



#82  
 Chrysene  
 Concen: 15.490 ng  
 RT: 14.06 min Scan# 2035  
 Delta R.T. -0.00 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 25.0  | 37.6  |
| 229     | 20.7  | 16.2  | 24.4  |

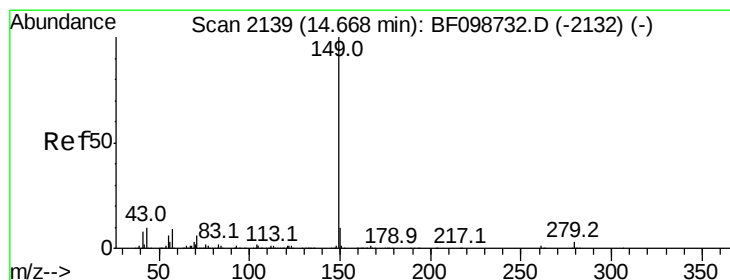
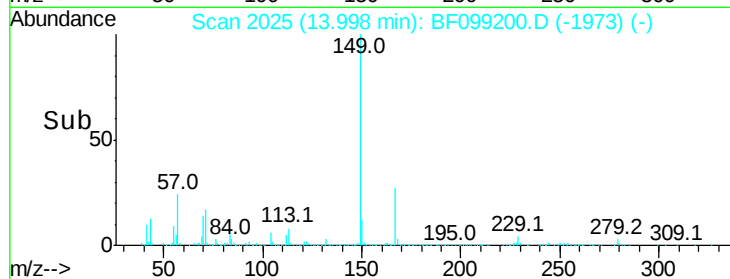
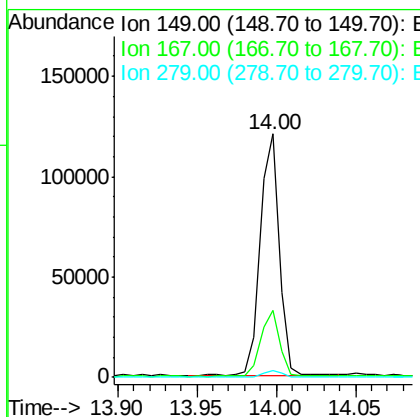
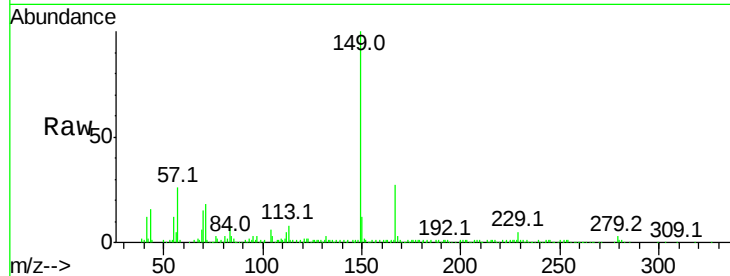




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 9.437 ng  
 RT: 14.00 min Scan# 2025  
 Delta R.T. 0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

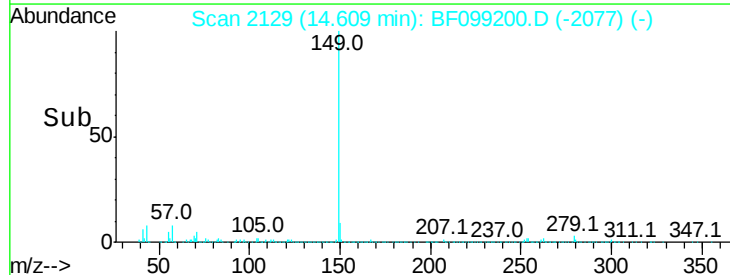
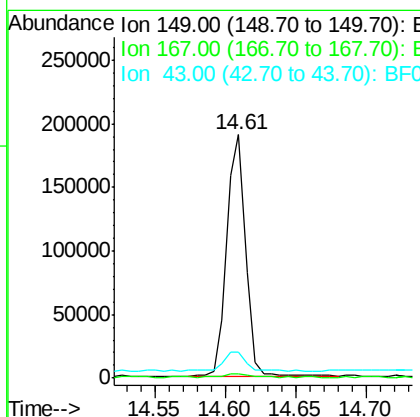
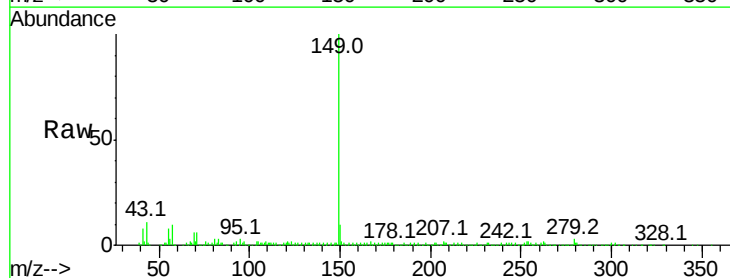
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

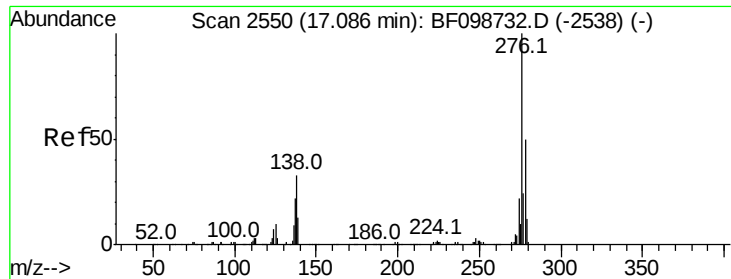
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.4  | 21.3  | 31.9  |
| 279     | 3.0   | 3.0   | 4.4   |



#84  
 Di-n-octyl phthalate  
 Concen: 10.066 ng  
 RT: 14.61 min Scan# 2129  
 Delta R.T. 0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.9   | 1.2   | 1.8   |
| 43      | 9.7   | 8.4   | 12.6  |

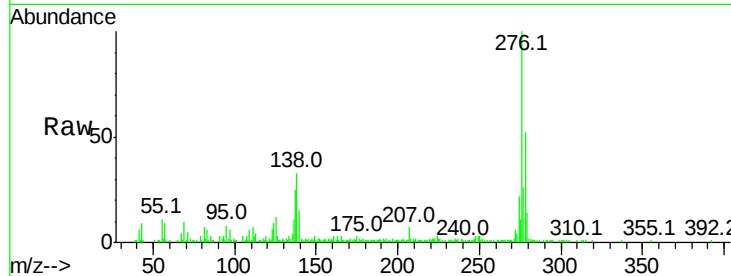




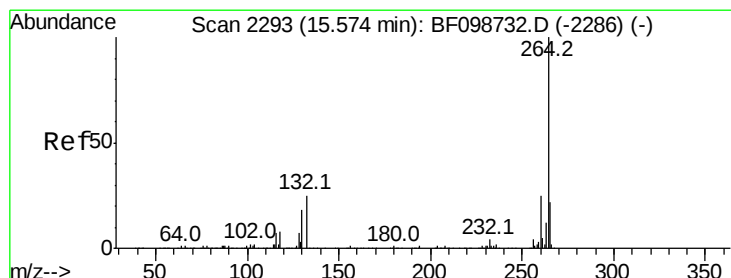
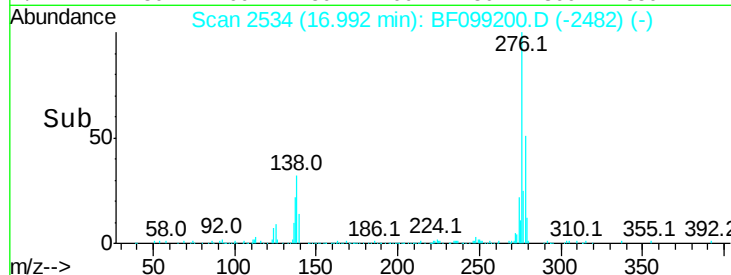
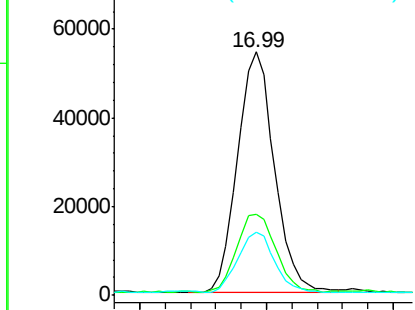
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.896 ng  
 RT: 16.99 min Scan# 2534  
 Delta R.T. 0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion:276 Resp: 109477  
 Ion Ratio Lower Upper  
 276 100  
 138 34.6 25.0 37.6  
 277 25.0 20.1 30.1

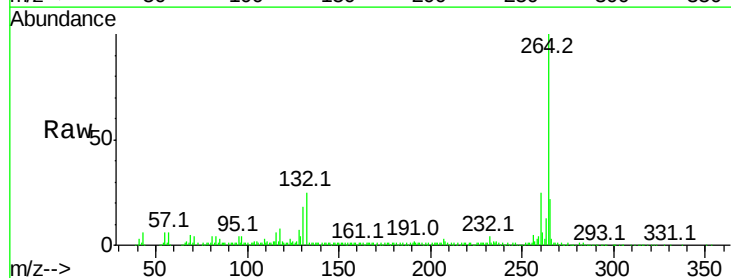


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

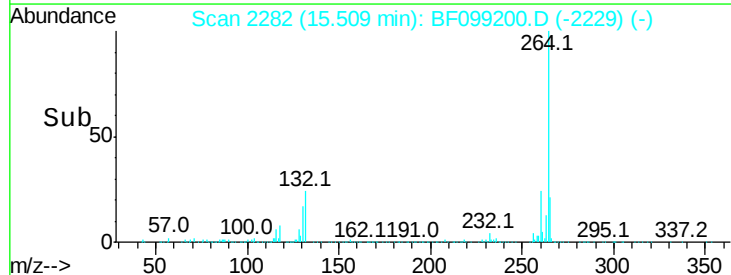
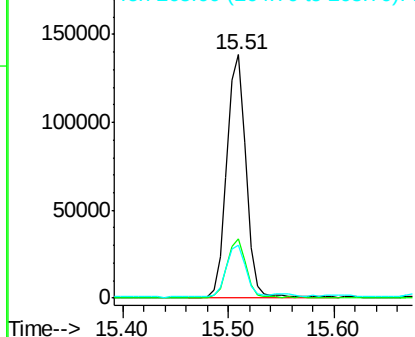


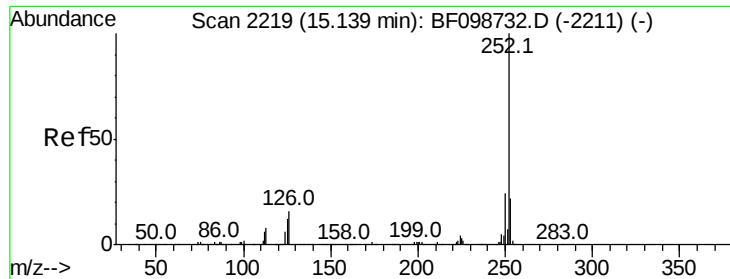
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.51 min Scan# 2282  
 Delta R.T. 0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Tgt Ion:264 Resp: 173506  
 Ion Ratio Lower Upper  
 264 100  
 260 24.6 19.2 28.8  
 265 21.8 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 15.830 ng

RT: 15.07 min Scan# 2208

Delta R.T. 0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

Instrument :

BNA\_F

ClientSampleId :

OR-03-100417MSD

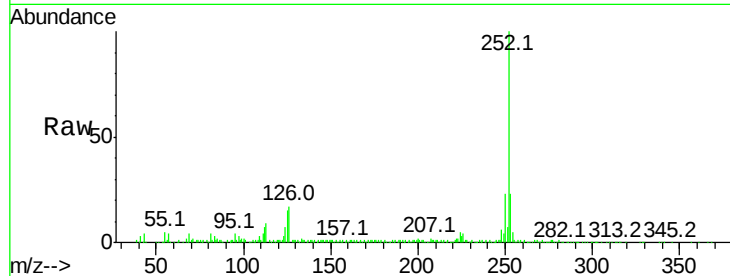
Tot Ion:252 Resp: 168867

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

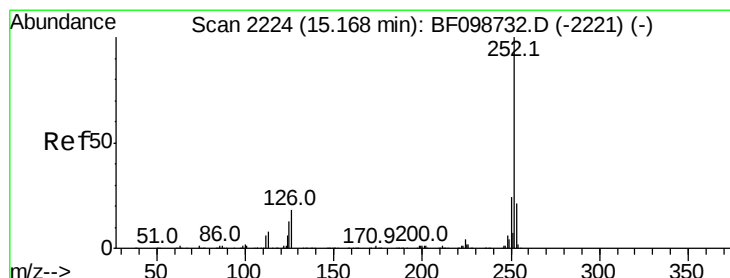
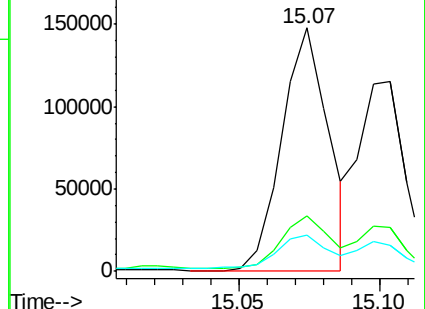
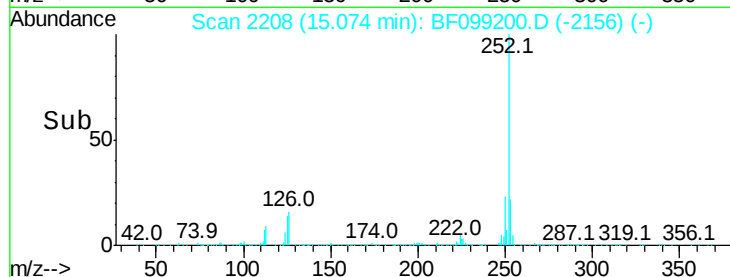
125 14.8 9.0 13.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 12.435 ng

RT: 15.10 min Scan# 2213

Delta R.T. 0.01 min

Lab File: BF099200.D

Acq: 7 Oct 2017 18:00

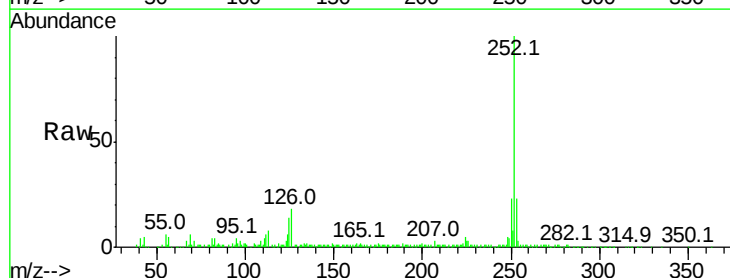
Tgt Ion:252 Resp: 131022

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

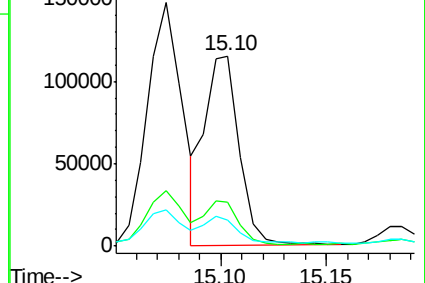
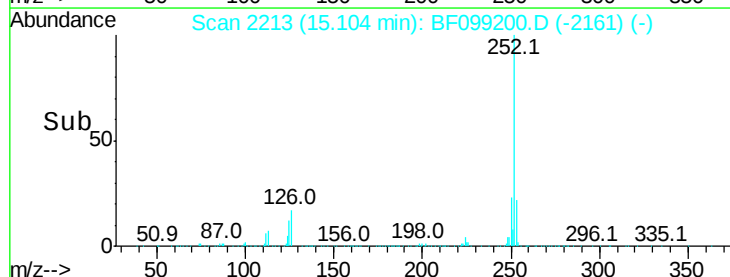
125 13.7 10.2 15.2

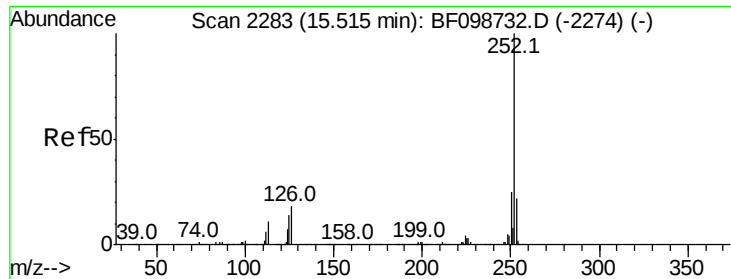


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

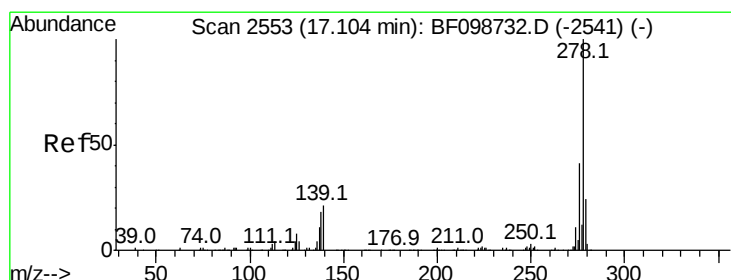
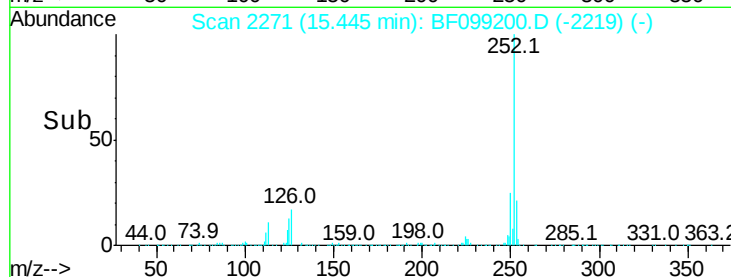
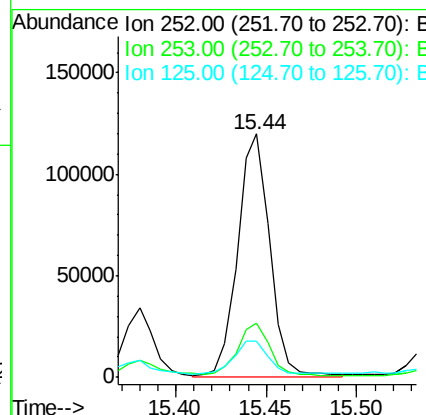
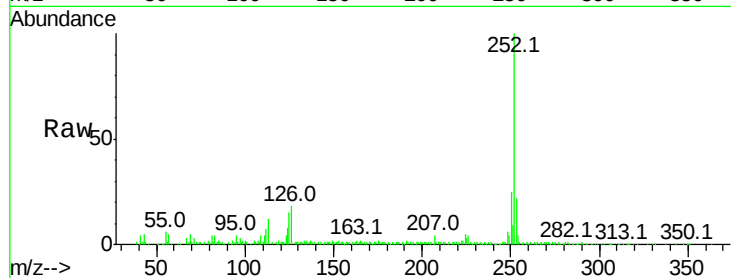




#89  
Benzo(a)pyrene  
Concen: 14.958 ng  
RT: 15.44 min Scan# 2271  
Delta R.T. 0.01 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

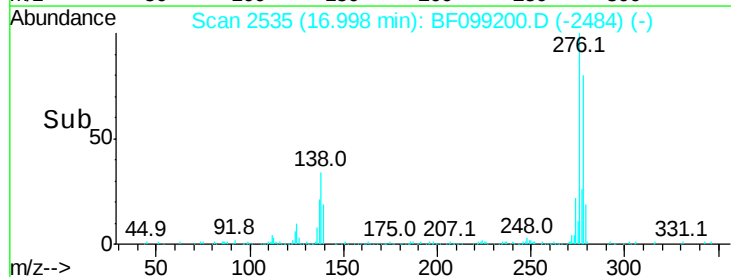
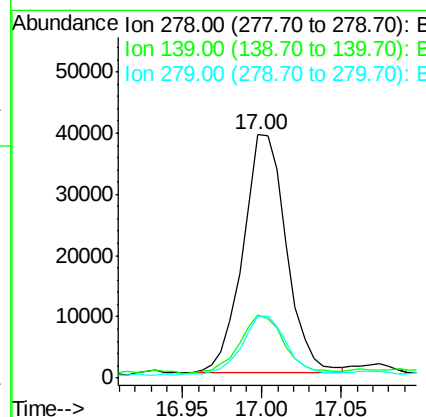
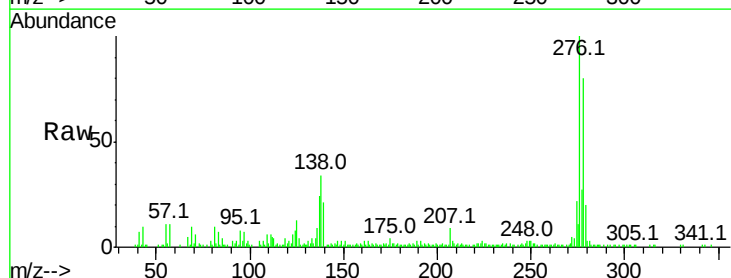
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100417MSD

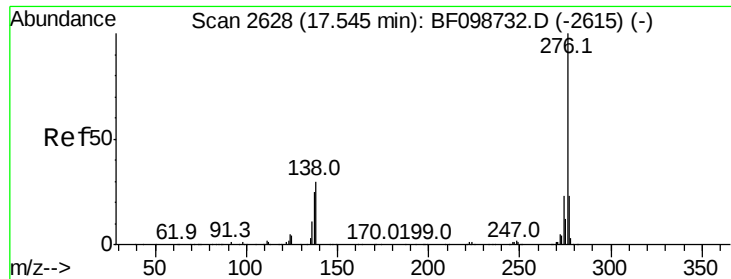
Tot Ion:252 Resp: 146478  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.1 25.7  
125 14.9 9.8 14.6#



#90  
Dibenzo(a,h)anthracene  
Concen: 9.479 ng  
RT: 17.00 min Scan# 2535  
Delta R.T. -0.00 min  
Lab File: BF099200.D  
Acq: 7 Oct 2017 18:00

Tgt Ion:278 Resp: 74283  
Ion Ratio Lower Upper  
278 100  
139 26.0 15.9 23.9#  
279 25.4 19.0 28.4





#91  
 Benzo(a,h,i)perylene  
 Concen: 12.276 ng  
 RT: 17.44 min Scan# 2611  
 Delta R.T. 0.01 min  
 Lab File: BF099200.D  
 Acq: 7 Oct 2017 18:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100417MSD

Tot Ion: 276 Resp: 95092  
 Ion Ratio Lower Upper  
 276 100  
 277 23.4 17.9 26.9  
 138 31.2 21.8 32.8

