

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020717\  
 Data File : BF092837.D  
 Acq On : 7 Feb 2017 19:23  
 Operator : SJ/MA  
 Sample : I1692-02MSD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Quant Time: Feb 07 23:50:14 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 30 14:50:05 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.91  | 152  | 170548   | 20.00 | ng    | -0.06    |
| 21) Naphthalene-d8        | 8.19  | 136  | 649583   | 20.00 | ng    | -0.07    |
| 38) Acenaphthene-d10      | 9.95  | 164  | 355268   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.44 | 188  | 442437   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 14.08 | 240  | 339482   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12          | 15.53 | 264  | 285476   | 20.00 | ng    | -0.08    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.53  | 112 | 1007026 | 101.30 | ng | -0.04 |
| 7) Phenol-d6             | 6.56  | 99  | 1278674 | 99.97  | ng | -0.05 |
| 23) Nitrobenzene-d5      | 7.47  | 82  | 1098401 | 94.16  | ng | -0.07 |
| 41) 2,4,6-Tribromophenol | 10.74 | 330 | 269032  | 104.70 | ng | -0.07 |
| 44) 2-Fluorobiphenyl     | 9.26  | 172 | 1712675 | 87.34  | ng | -0.07 |
| 78) Terphenyl-d14        | 13.01 | 244 | 1146259 | 79.34  | ng | -0.07 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.66 | 88  | 154429  | 28.75 | ng | 87     |
| 3) Pyridine                    | 3.38 | 79  | 330554  | 24.20 | ng | # 85   |
| 4) n-Nitrosodimethylamine      | 3.31 | 42  | 230008  | 35.86 | ng | 86     |
| 6) Aniline                     | 6.58 | 93  | 352557  | 20.21 | ng | # 54   |
| 8) 2-Chlorophenol              | 6.70 | 128 | 471592  | 43.00 | ng | 90     |
| 9) Benzaldehyde                | 6.45 | 77  | 139011  | 15.17 | ng | 90     |
| 10) Phenol                     | 6.57 | 94  | 538882  | 36.01 | ng | 85     |
| 11) bis(2-Chloroethyl)ether    | 6.65 | 93  | 526000  | 44.04 | ng | 94     |
| 12) 1,3-Dichlorobenzene        | 6.85 | 146 | 529001  | 41.18 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.92 | 146 | 513951  | 39.53 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.08 | 146 | 517238  | 41.61 | ng | 96     |
| 15) Benzyl Alcohol             | 7.06 | 79  | 444560  | 46.95 | ng | 96     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.18 | 45  | 922043  | 44.43 | ng | 98     |
| 17) 2-Methylphenol             | 7.17 | 107 | 436777  | 46.42 | ng | 97     |
| 18) Hexachloroethane           | 7.41 | 117 | 172351  | 38.83 | ng | # 86   |
| 19) n-Nitroso-di-n-propylamine | 7.32 | 70  | 334234  | 41.05 | ng | 92     |
| 20) 3+4-Methylphenols          | 7.32 | 107 | 491622  | 43.70 | ng | # 65   |
| 22) Acetophenone               | 7.32 | 105 | 656113  | 44.24 | ng | # 94   |
| 24) Nitrobenzene               | 7.49 | 77  | 557869  | 46.58 | ng | 99     |
| 25) Isophorone                 | 7.73 | 82  | 1039945 | 47.84 | ng | 96     |
| 26) 2-Nitrophenol              | 7.81 | 139 | 285163  | 50.08 | ng | # 86   |
| 27) 2,4-Dimethylphenol         | 7.85 | 122 | 456550  | 45.66 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.94 | 93  | 625806  | 43.47 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.05 | 162 | 419197  | 44.95 | ng | 91     |
| 30) 1,2,4-Trichlorobenzene     | 8.13 | 180 | 429655  | 42.75 | ng | 97     |
| 31) Naphthalene                | 8.21 | 128 | 1303557 | 39.59 | ng | 99     |
| 32) Benzoic acid               | 7.98 | 122 | 302857  | 52.64 | ng | 95     |
| 33) 4-Chloroaniline            | 8.27 | 127 | 126056  | 9.76  | ng | 99     |
| 34) Hexachlorobutadiene        | 8.33 | 225 | 215796  | 39.03 | ng | 99     |
| 35) Caprolactam                | 8.64 | 113 | 124864  | 42.57 | ng | # 36   |
| 36) 4-Chloro-3-methylphenol    | 8.76 | 107 | 481614  | 49.53 | ng | 90     |
| 37) 2-Methylnaphthalene        | 8.91 | 142 | 973493  | 46.04 | ng | 96     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.07 | 216 | 410577  | 41.17 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 9.06 | 237 | 132793  | 29.51 | ng | 97     |

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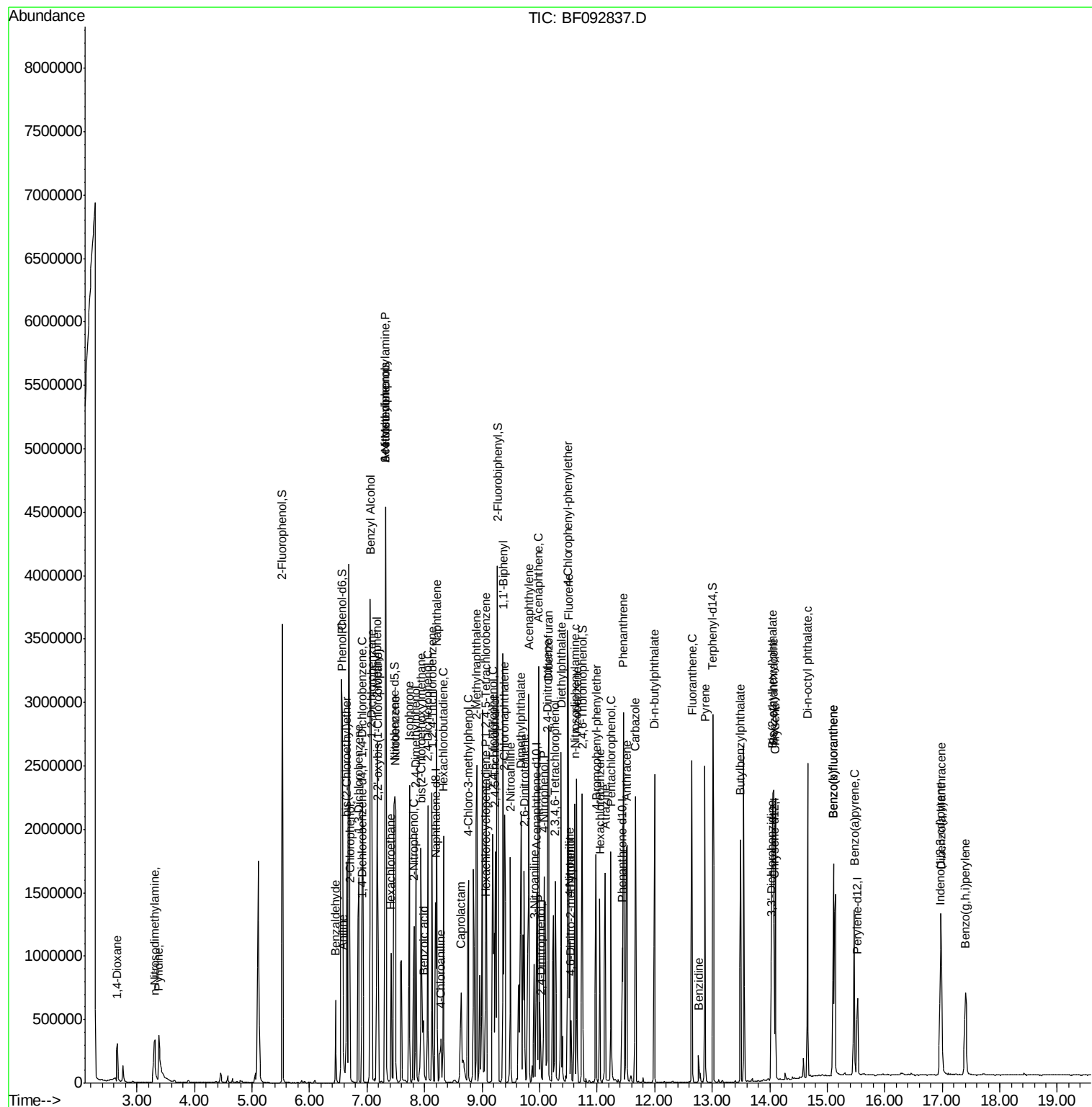
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.18  | 196  | 290574   | 44.34 | ng    | 91       |
| 43) 2,4,5-Trichlorophenol      | 9.23  | 196  | 300242   | 41.82 | ng    | 94       |
| 45) 1,1'-Biphenyl              | 9.37  | 154  | 1062536  | 41.30 | ng    | 97       |
| 46) 2-Chloronaphthalene        | 9.39  | 162  | 880355   | 43.75 | ng    | 95       |
| 47) 2-Nitroaniline             | 9.49  | 65   | 321288   | 47.48 | ng    | 98       |
| 48) Acenaphthylene             | 9.81  | 152  | 1443473  | 41.52 | ng    | 99       |
| 49) Dimethylphthalate          | 9.68  | 163  | 1171372  | 48.95 | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.73  | 165  | 216469   | 41.89 | ng    | # 73     |
| 51) Acenaphthene               | 9.98  | 154  | 893937   | 43.01 | ng    | 96       |
| 52) 3-Nitroaniline             | 9.90  | 138  | 143021   | 24.18 | ng    | 94       |
| 53) 2,4-Dinitrophenol          | 10.02 | 184  | 101427   | 41.03 | ng    | 93       |
| 54) Dibenzofuran               | 10.16 | 168  | 1231197  | 44.29 | ng    | 93       |
| 55) 4-Nitrophenol              | 10.08 | 139  | 325463   | 76.41 | ng    | 91       |
| 56) 2,4-Dinitrotoluene         | 10.14 | 165  | 326577   | 47.47 | ng    | # 86     |
| 57) Fluorene                   | 10.50 | 166  | 917108   | 42.88 | ng    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.27 | 232  | 214616   | 44.81 | ng    | 100      |
| 59) Diethylphthalate           | 10.37 | 149  | 1089643  | 48.32 | ng    | 96       |
| 60) 4-Chlorophenyl-phenylether | 10.49 | 204  | 420724   | 40.95 | ng    | 88       |
| 61) 4-Nitroaniline             | 10.52 | 138  | 222364   | 36.71 | ng    | 89       |
| 62) Azobenzene                 | 10.65 | 77   | 956782   | 41.07 | ng    | 96       |
| 64) 4,6-Dinitro-2-methylphenol | 10.54 | 198  | 67674    | 26.40 | ng    | # 36     |
| 65) n-Nitrosodiphenylamine     | 10.61 | 169  | 770683   | 54.53 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.98 | 248  | 237339   | 51.35 | ng    | 91       |
| 67) Hexachlorobenzene          | 11.05 | 284  | 221462   | 48.48 | ng    | 98       |
| 68) Atrazine                   | 11.14 | 200  | 234165   | 51.63 | ng    | 97       |
| 69) Pentachlorophenol          | 11.24 | 266  | 210089   | 88.28 | ng    | 96       |
| 70) Phenanthrene               | 11.46 | 178  | 1095964  | 43.24 | ng    | 98       |
| 71) Anthracene                 | 11.52 | 178  | 1176928  | 46.24 | ng    | 97       |
| 72) Carbazole                  | 11.66 | 167  | 920267   | 37.82 | ng    | 99       |
| 73) Di-n-butylphthalate        | 12.00 | 149  | 1438510  | 54.66 | ng    | # 96     |
| 74) Fluoranthene               | 12.65 | 202  | 1037080  | 39.66 | ng    | 95       |
| 76) Benzidine                  | 12.76 | 184  | 107288   | 7.42  | ng    | 96       |
| 77) Pyrene                     | 12.88 | 202  | 1010795  | 39.79 | ng    | 98       |
| 79) Butylbenzylphthalate       | 13.49 | 149  | 517823   | 50.19 | ng    | # 81     |
| 80) Benzo(a)anthracene         | 14.07 | 228  | 895116   | 43.11 | ng    | 100      |
| 81) 3,3'-Dichlorobenzidine     | 14.03 | 252  | 268612   | 36.29 | ng    | # 96     |
| 82) Chrysene                   | 14.10 | 228  | 686018   | 35.29 | ng    | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 14.05 | 149  | 694296   | 49.21 | ng    | # 94     |
| 84) Di-n-octyl phthalate       | 14.66 | 149  | 1125212  | 48.97 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.97 | 276  | 681710   | 45.27 | ng    | 95       |
| 87) Benzo(b)fluoranthene       | 15.11 | 252  | 809886   | 43.10 | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 15.11 | 252  | 809886   | 49.92 | ng    | 98       |
| 89) Benzo(a)pyrene             | 15.47 | 252  | 749734   | 46.13 | ng    | 97       |
| 90) Dibenzo(a,h)anthracene     | 16.98 | 278  | 581525   | 44.27 | ng    | 96       |
| 91) Benzo(g,h,i)perylene       | 17.40 | 276  | 552060   | 41.60 | ng    | # 90     |

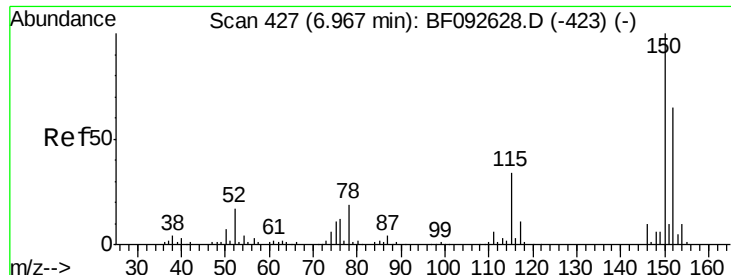
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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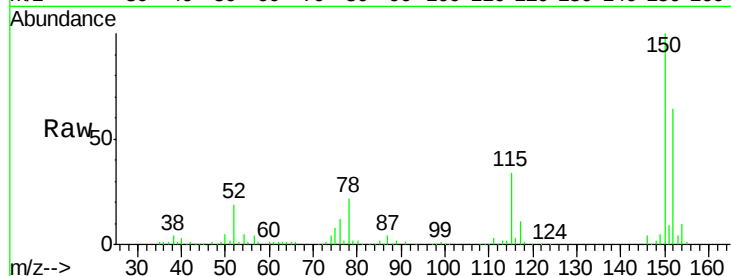




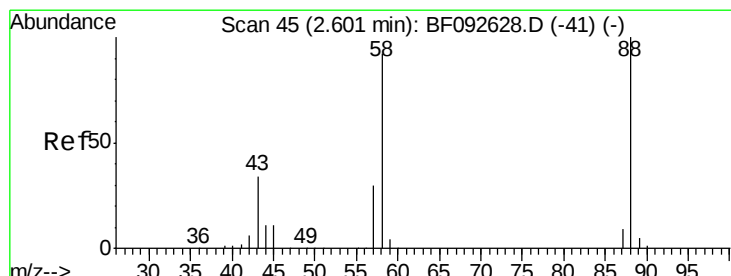
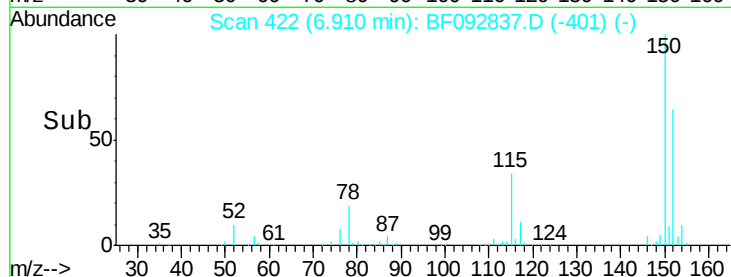
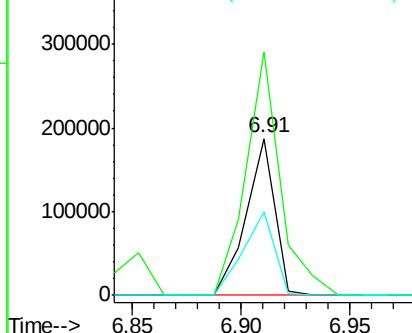
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.91 min Scan# 422  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
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Tgt Ion:152 Resp: 170548  
 Ion Ratio Lower Upper  
 152 100  
 150 155.3 124.9 187.3  
 115 53.1 46.0 69.0

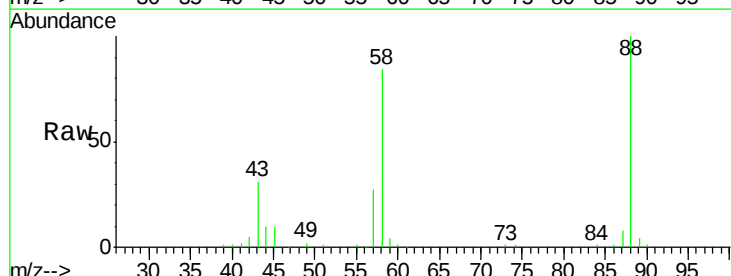


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

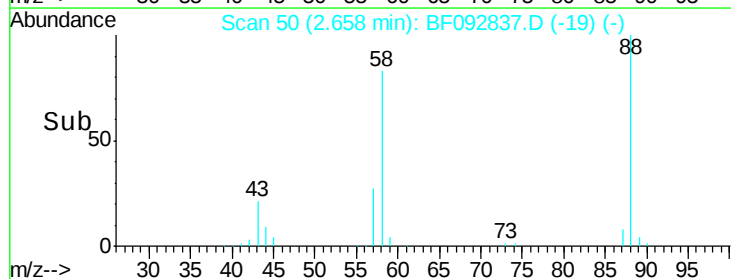
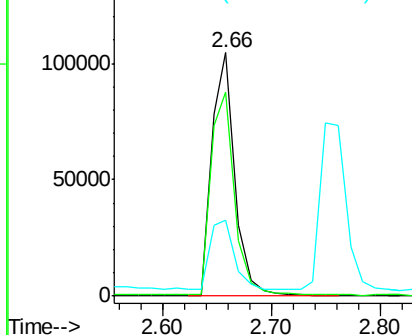


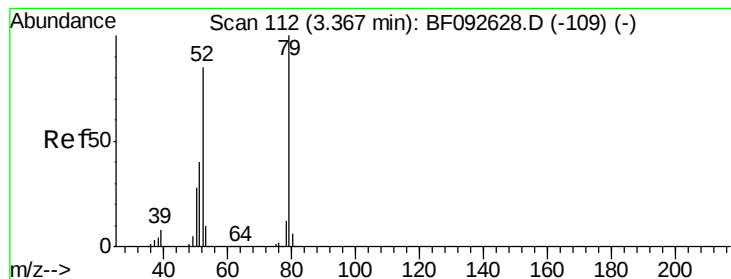
#2  
 1,4-Dioxane  
 Concen: 28.75 ng  
 RT: 2.66 min Scan# 50  
 Delta R.T. 0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion: 88 Resp: 154429  
 Ion Ratio Lower Upper  
 88 100  
 58 85.6 57.8 86.8  
 43 30.6 22.3 33.5



Abundance Ion 88.00 (87.70 to 88.70): BF0  
 Ion 58.00 (57.70 to 58.70): BF0  
 Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 24.20 ng

RT: 3.38 min Scan# 113

Delta R.T. 0.01 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

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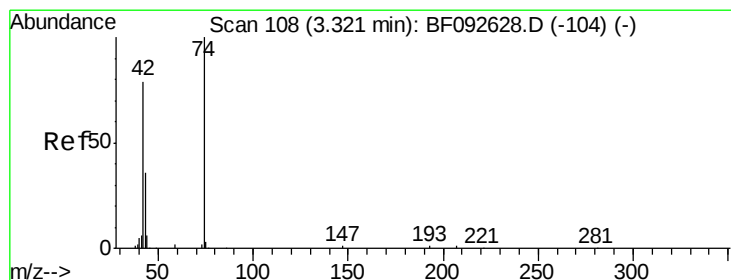
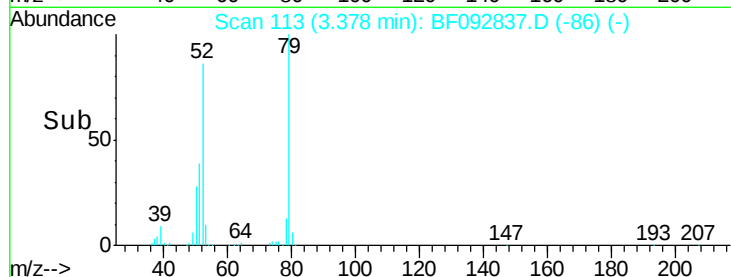
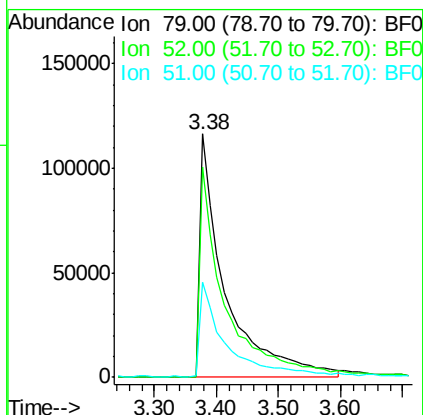
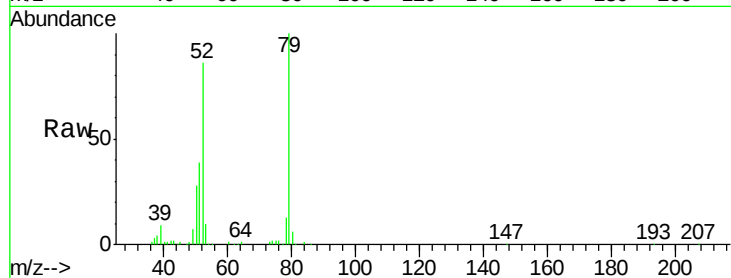
Tgt Ion: 79 Resp: 330554

Ion Ratio Lower Upper

79 100

52 86.2 57.1 85.7#

51 39.0 27.3 40.9



#4

n-Nitrosodimethylamine

Concen: 35.86 ng

RT: 3.31 min Scan# 107

Delta R.T. -0.01 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

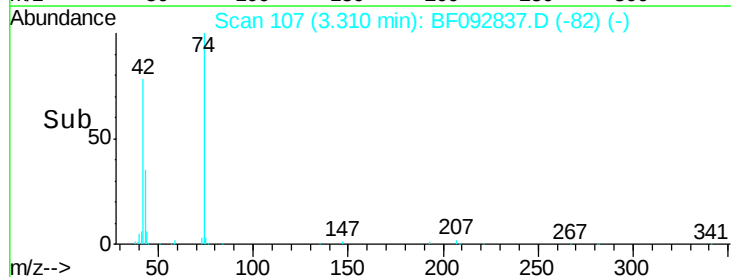
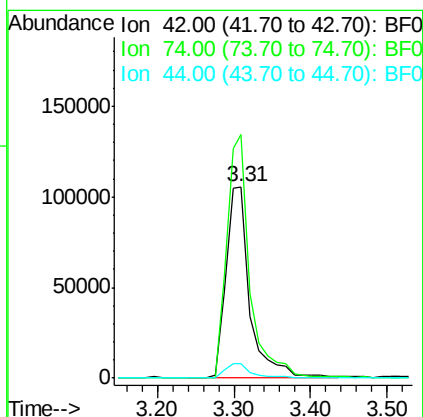
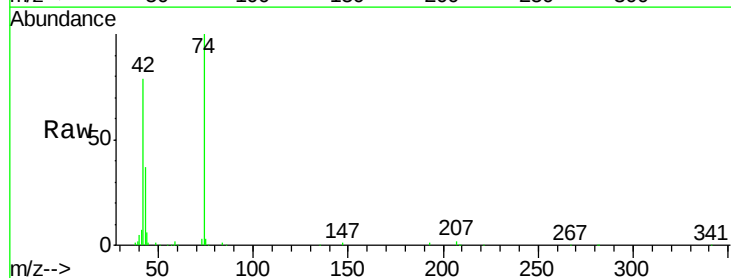
Tgt Ion: 42 Resp: 230008

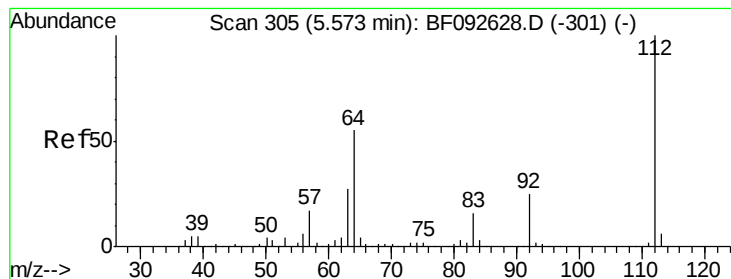
Ion Ratio Lower Upper

42 100

74 127.4 117.0 175.4

44 7.6 5.5 8.3





#5

2-Fluorophenol

Concen: 101.30 ng

RT: 5.53 min Scan# 301

Delta R.T. -0.04 min

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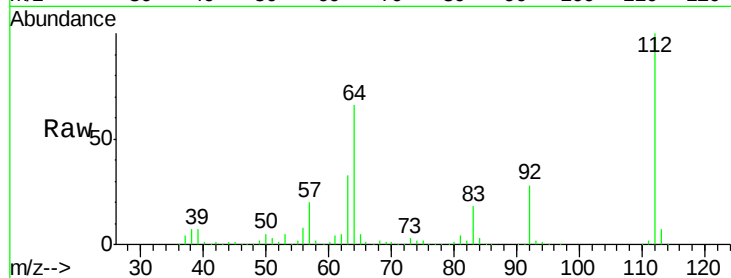
Tgt Ion: 112 Resp: 1007026

Ion Ratio Lower Upper

112 100

64 66.2 46.1 69.1

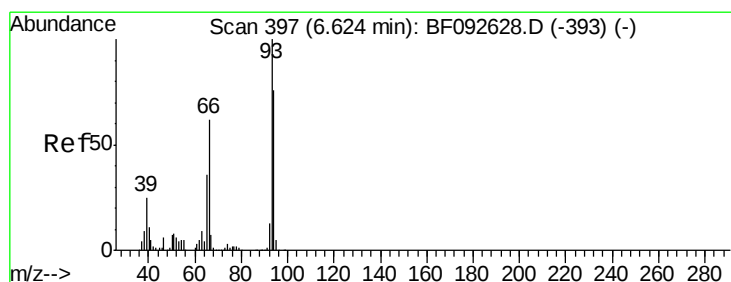
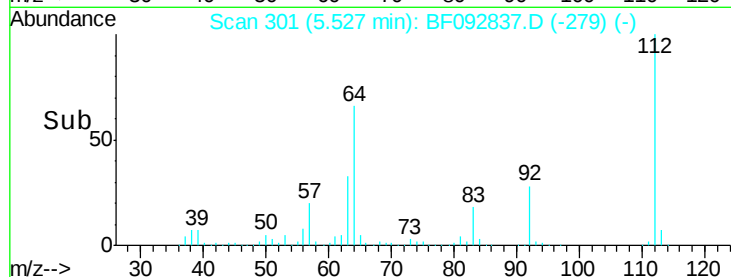
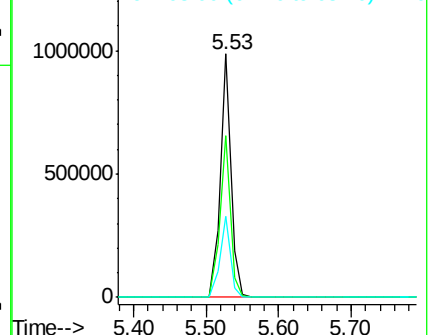
63 33.2 23.8 35.6



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



#6

Aniline

Concen: 20.21 ng

RT: 6.58 min Scan# 393

Delta R.T. -0.05 min

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Acq: 7 Feb 2017 19:23

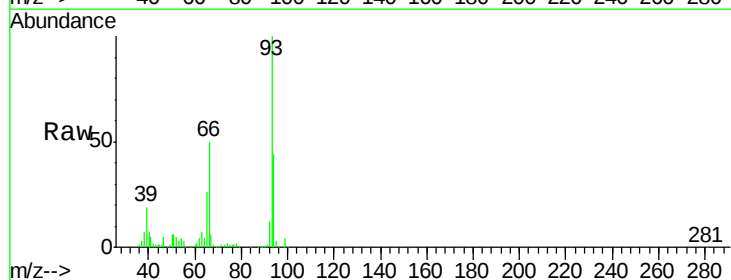
Tgt Ion: 93 Resp: 352557

Ion Ratio Lower Upper

93 100

66 49.8 76.2 114.2#

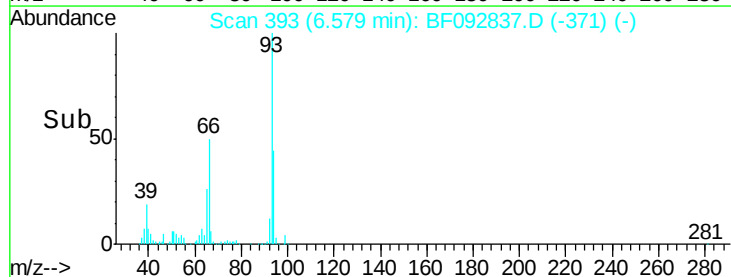
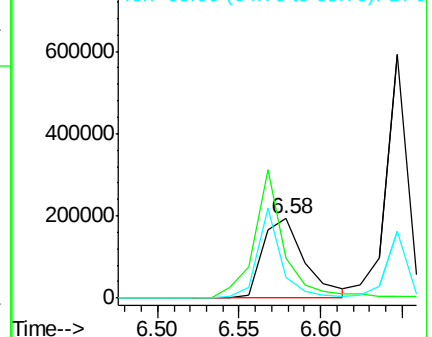
65 26.4 49.3 73.9#

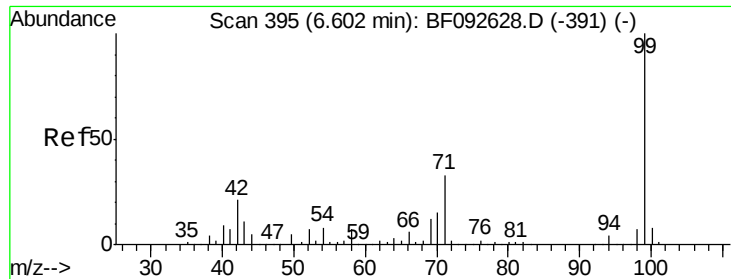


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 99.97 ng

RT: 6.56 min Scan# 391

Delta R.T. -0.05 min

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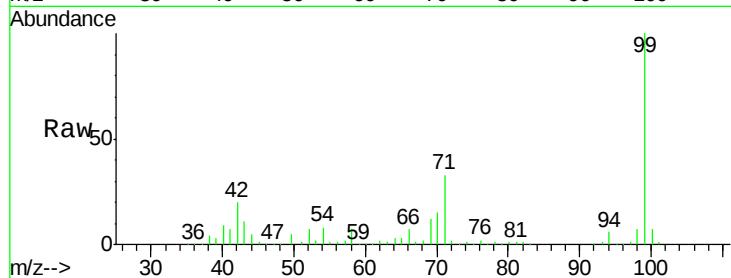
Tgt Ion: 99 Resp: 1278674

Ion Ratio Lower Upper

99 100

42 20.4 15.6 23.4

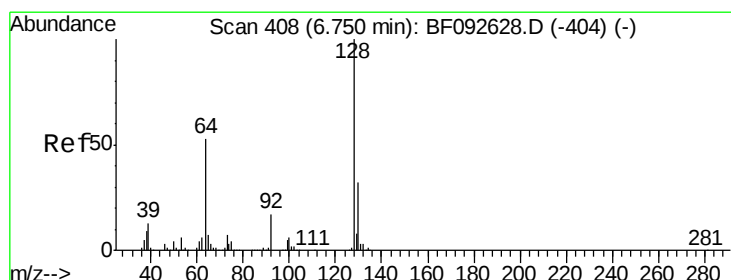
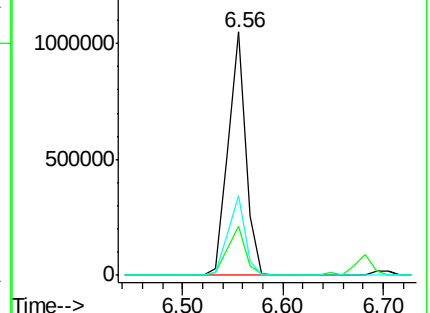
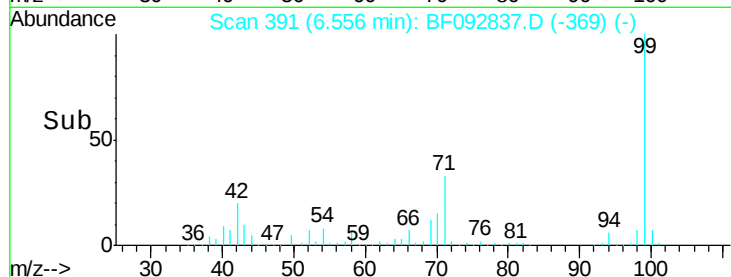
71 32.8 27.5 41.3



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: 43.00 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.05 min

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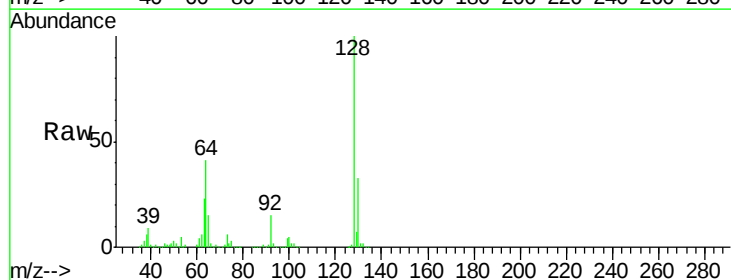
Tgt Ion: 128 Resp: 471592

Ion Ratio Lower Upper

128 100

130 33.4 12.3 52.3

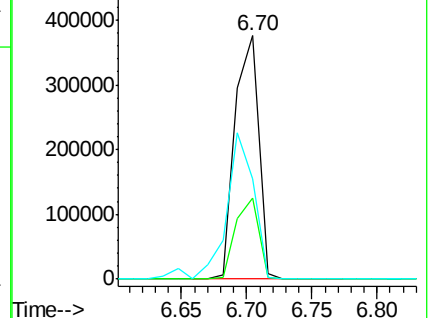
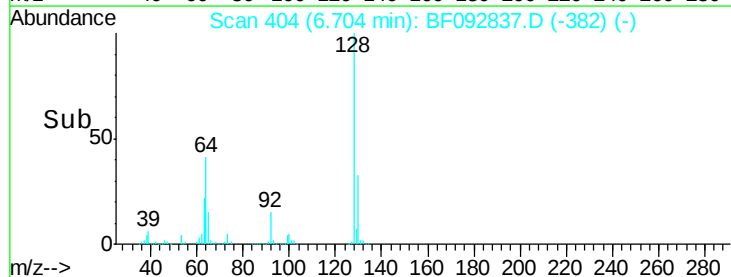
64 41.4 32.2 72.2



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: 15.17 ng

RT: 6.45 min Scan# 382

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

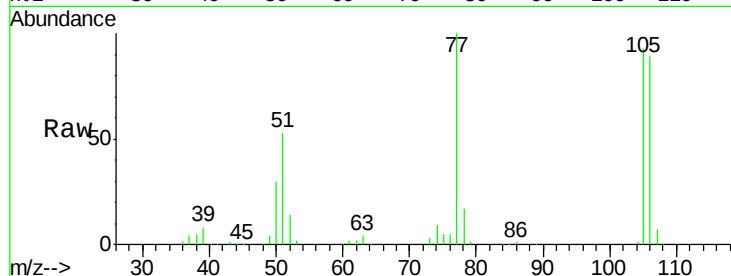
Tgt Ion: 77 Resp: 139011

Ion Ratio Lower Upper

77 100

105 92.7 83.9 123.9

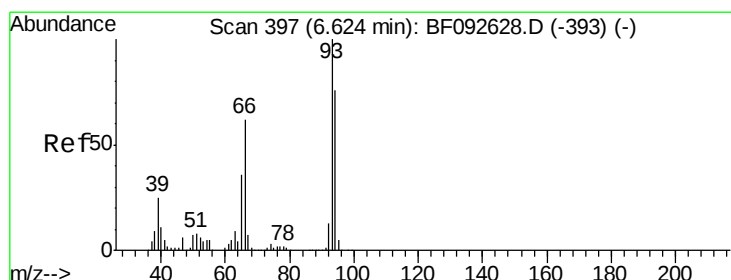
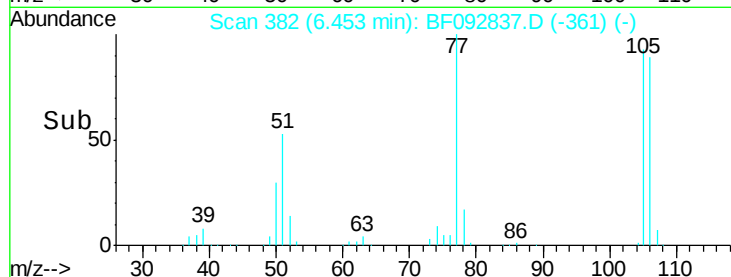
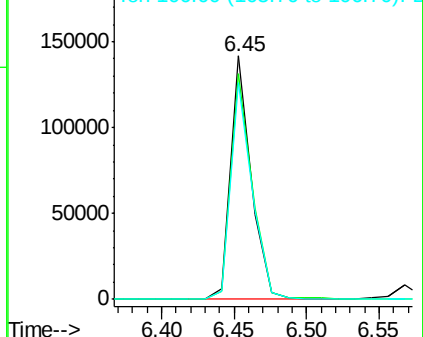
106 89.0 77.6 117.6



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 36.01 ng

RT: 6.57 min Scan# 392

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

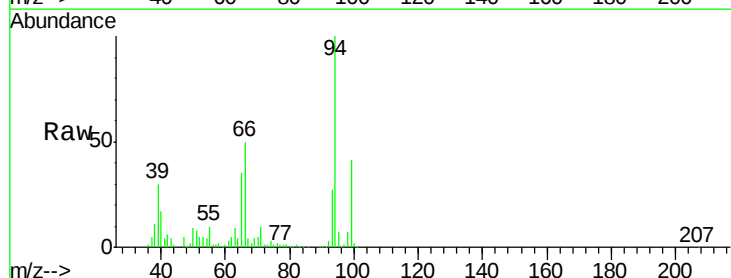
Tgt Ion: 94 Resp: 538882

Ion Ratio Lower Upper

94 100

65 34.9 21.4 61.4

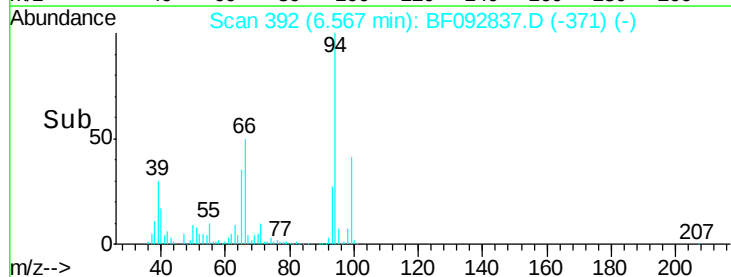
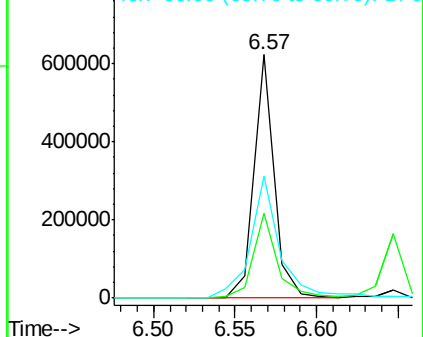
66 50.0 44.0 84.0

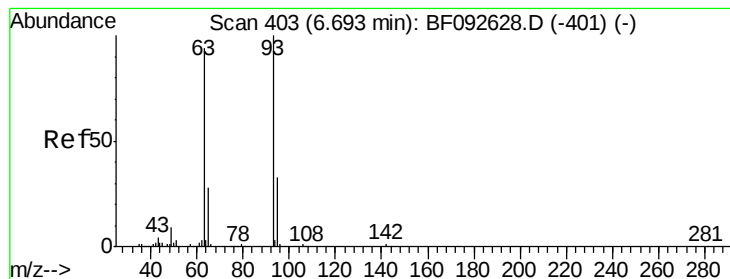


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 44.04 ng

RT: 6.65 min Scan# 399

Delta R.T. -0.05 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

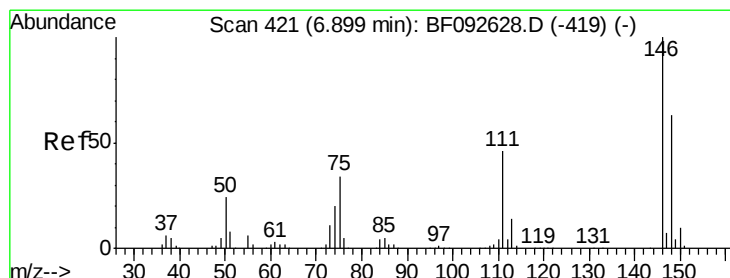
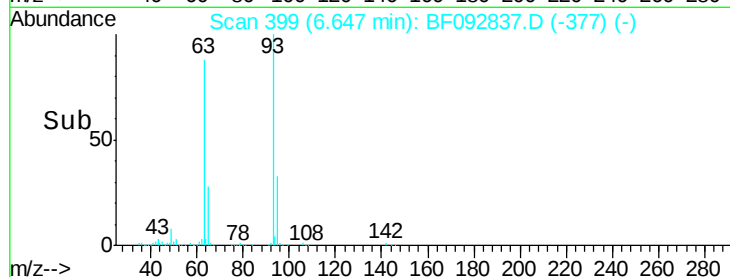
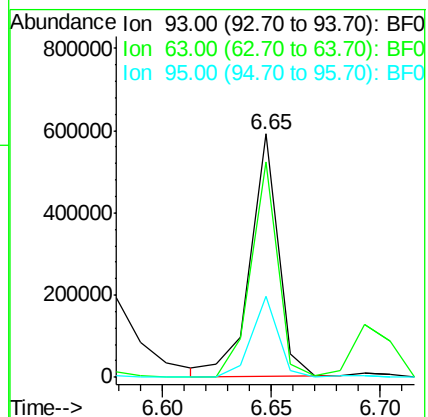
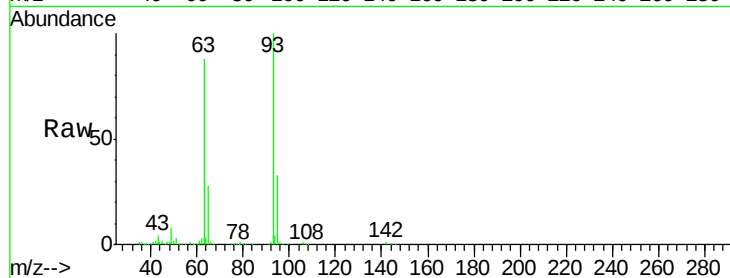
Tgt Ion: 93 Resp: 526000

Ion Ratio Lower Upper

93 100

63 88.2 60.4 100.4

95 33.0 12.8 52.8



#12

1,3-Dichlorobenzene

Concen: 41.18 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.05 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

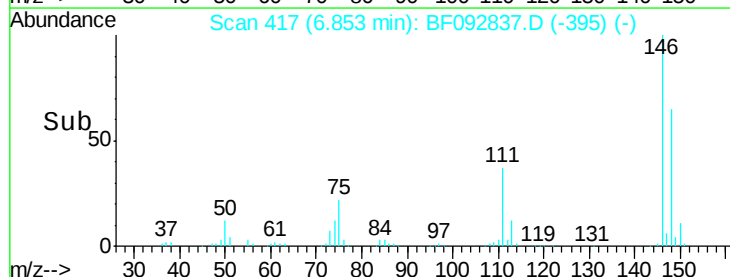
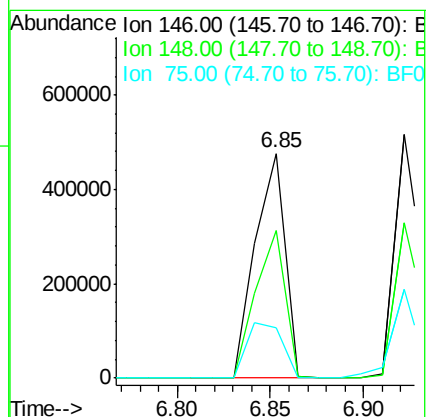
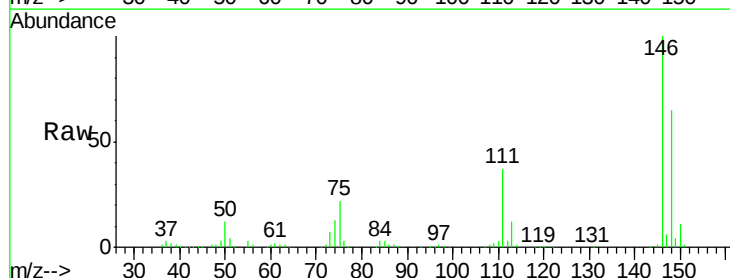
Tgt Ion: 146 Resp: 529001

Ion Ratio Lower Upper

146 100

148 65.4 53.4 80.0

75 22.2 18.5 27.7

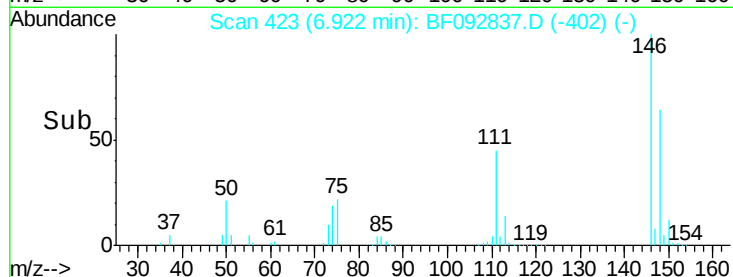
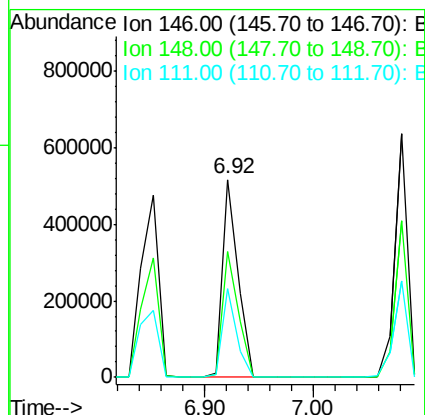
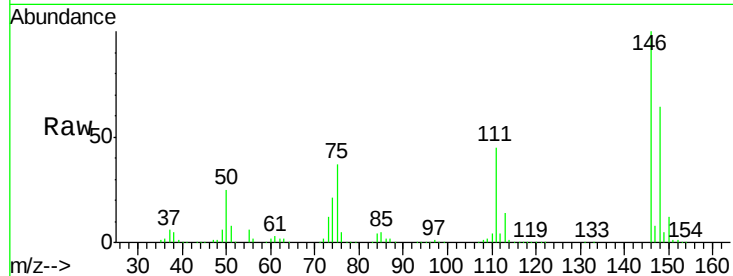




#13  
 1,4-Dichlorobenzene  
 Concen: 39.53 ng  
 RT: 6.92 min Scan# 423  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

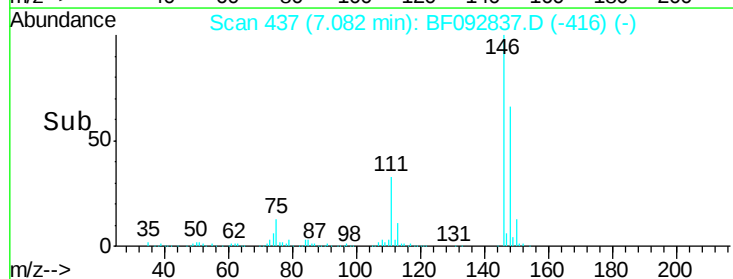
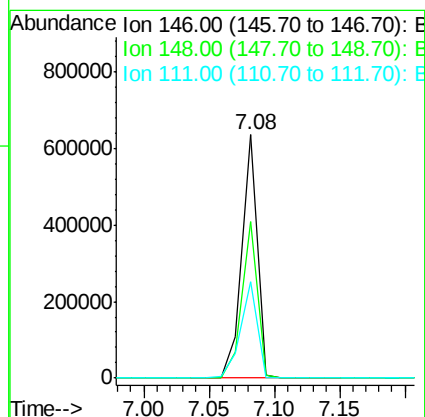
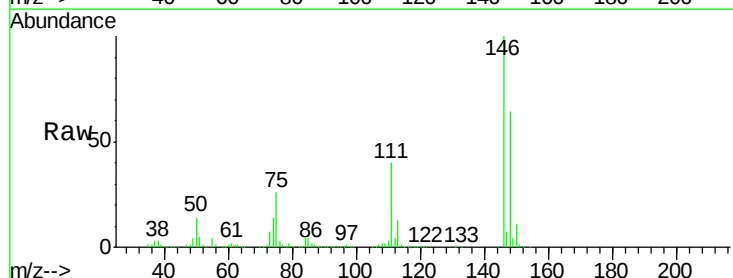
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

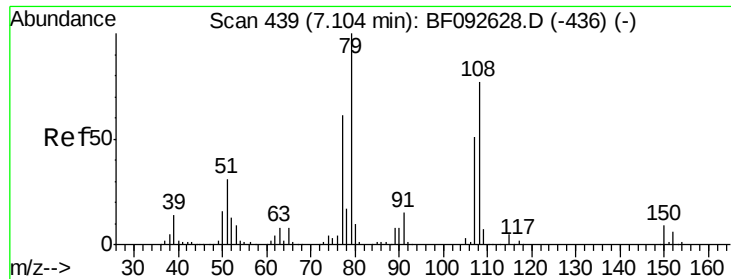
Tgt Ion:146 Resp: 513951  
 Ion Ratio Lower Upper  
 146 100  
 148 63.6 50.6 76.0  
 111 44.8 36.2 54.4



#14  
 1,2-Dichlorobenzene  
 Concen: 41.61 ng  
 RT: 7.08 min Scan# 437  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:146 Resp: 517238  
 Ion Ratio Lower Upper  
 146 100  
 148 64.3 52.2 78.2  
 111 39.8 36.2 54.2

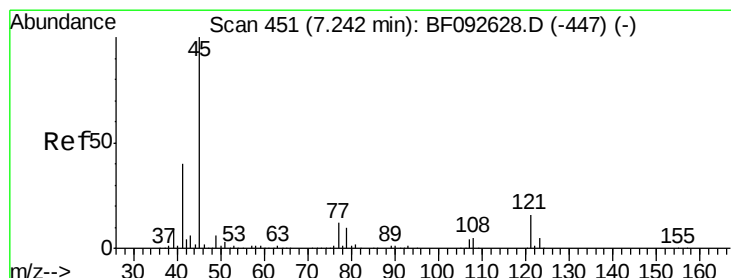
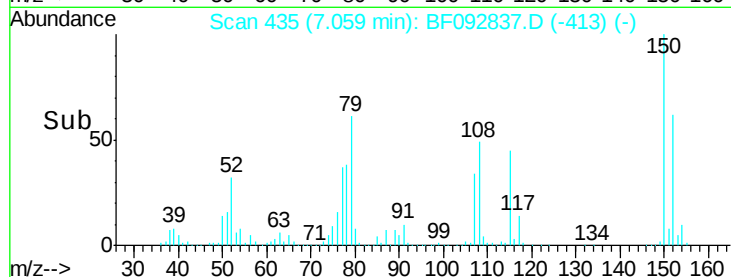
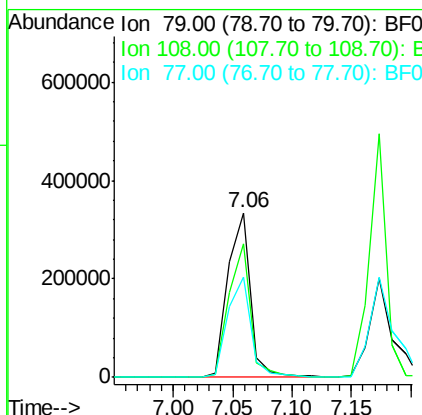
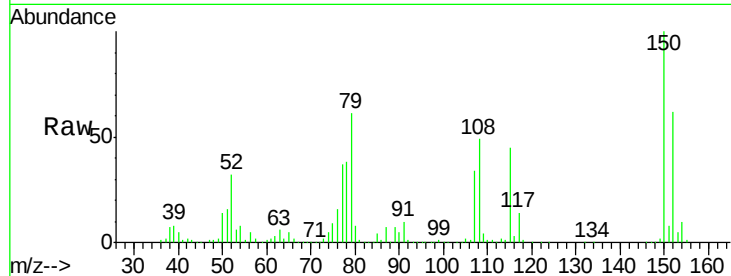




#15  
Benzyl Alcohol  
Concen: 46.95 ng  
RT: 7.06 min Scan# 435  
Delta R.T. -0.05 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

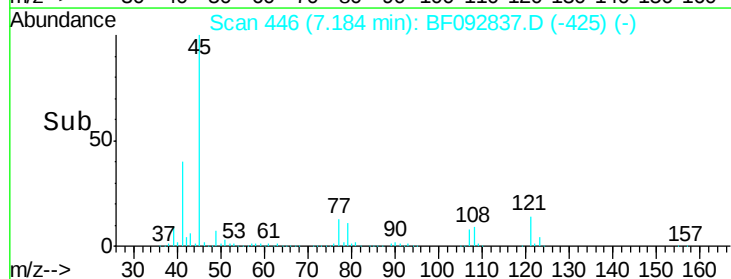
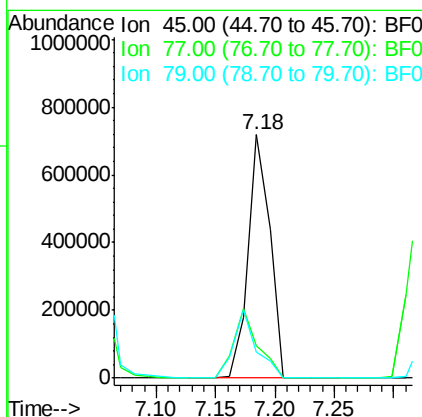
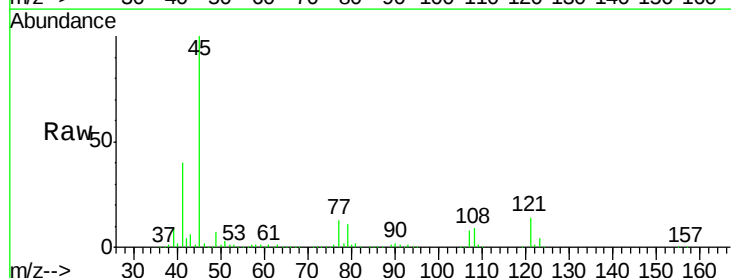
Instrument :  
BNA\_F  
ClientSampleId :  
ROLL-OFF-15-40-COMPMSD

Tgt Ion: 79 Resp: 444560  
Ion Ratio Lower Upper  
79 100  
108 80.6 61.4 92.0  
77 61.0 50.9 76.3



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 44.43 ng  
RT: 7.18 min Scan# 446  
Delta R.T. -0.06 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

Tgt Ion: 45 Resp: 922043  
Ion Ratio Lower Upper  
45 100  
77 13.3 0.0 34.6  
79 10.6 0.0 31.2

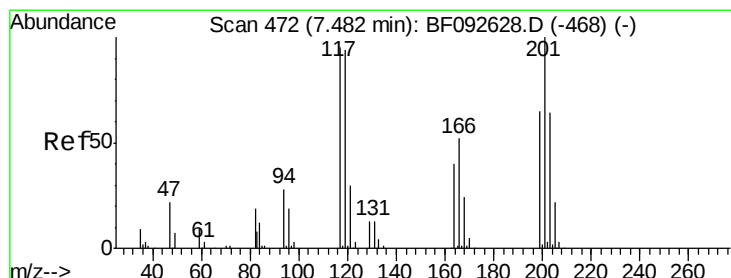
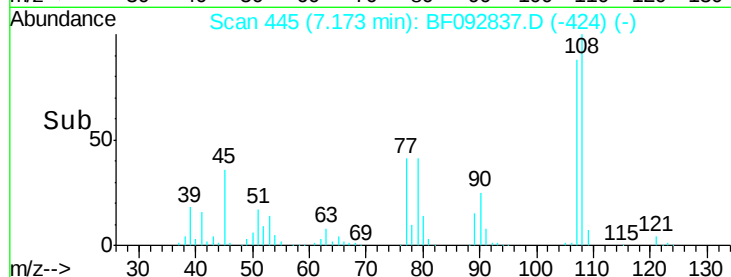
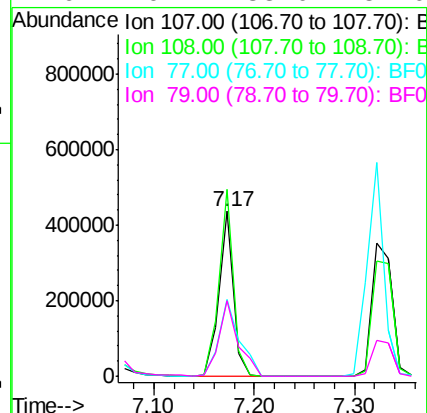
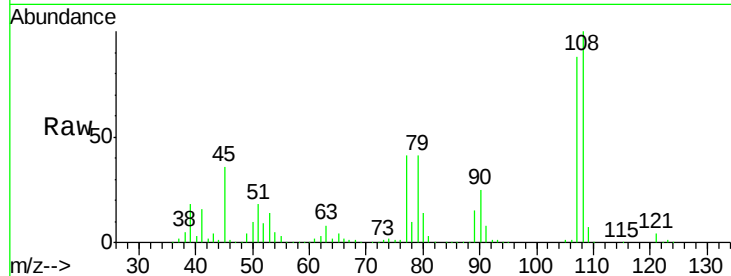




#17  
2-Methylphenol  
Concen: 46.42 ng  
RT: 7.17 min Scan# 445  
Delta R.T. -0.06 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

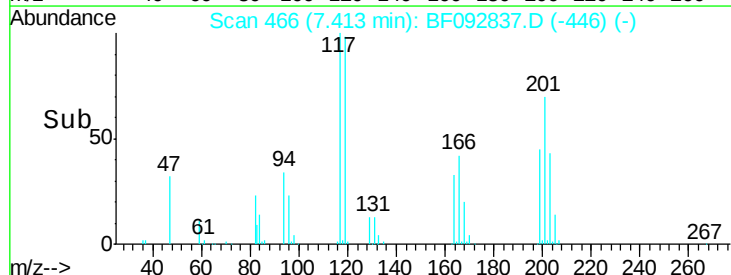
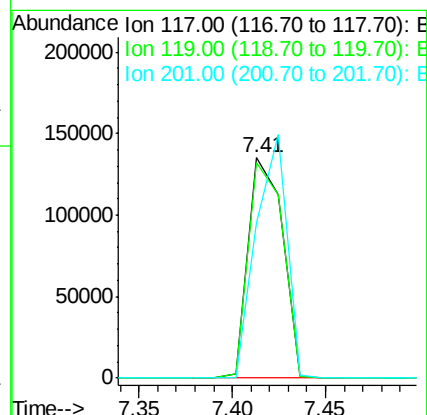
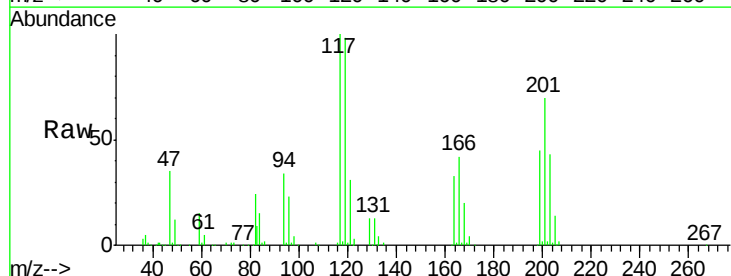
Instrument :  
BNA\_F  
ClientSampleId :  
ROLL-OFF-15-40-COMPMSD

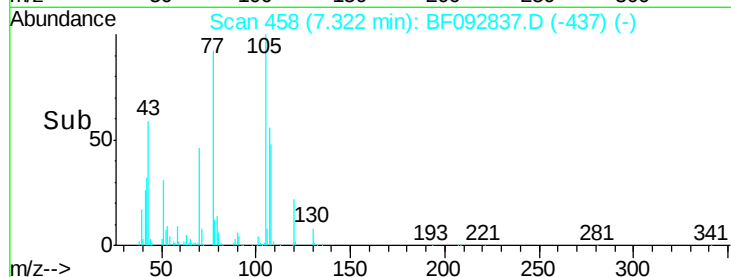
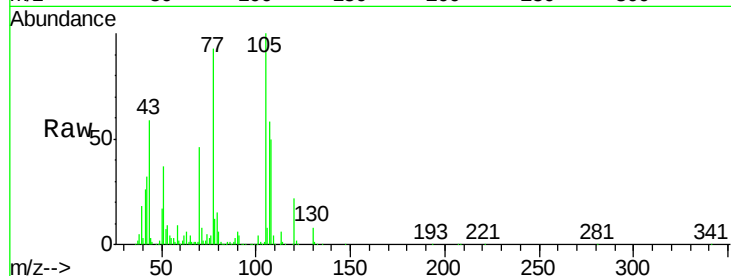
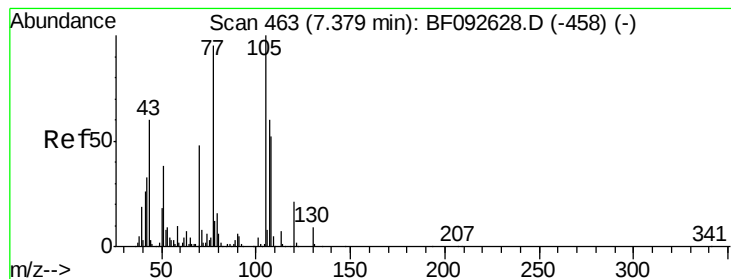
Tgt Ion:107 Resp: 436777  
Ion Ratio Lower Upper  
107 100  
108 113.4 93.0 139.6  
77 46.9 39.8 59.8  
79 46.2 38.0 57.0



#18  
Hexachloroethane  
Concen: 38.83 ng  
RT: 7.41 min Scan# 466  
Delta R.T. -0.07 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

Tgt Ion:117 Resp: 172351  
Ion Ratio Lower Upper  
117 100  
119 97.8 78.1 117.1  
201 70.2 78.6 117.8#





#19

n-Nitroso-di-n-propylamine

Concen: 41.05 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

Tgt Ion: 70 Resp: 334234

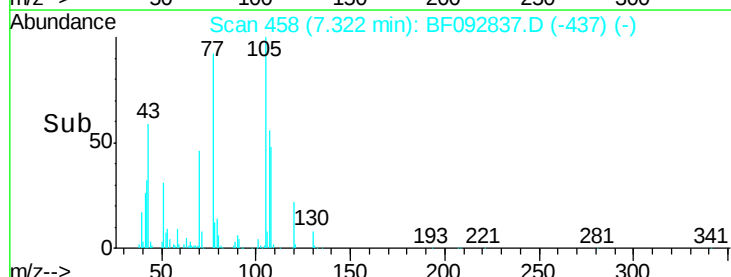
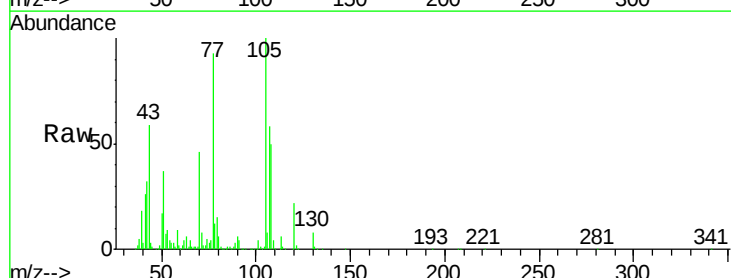
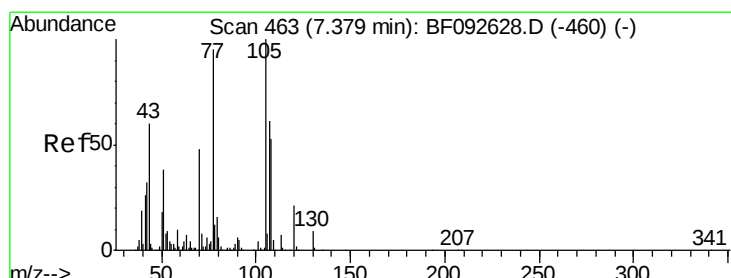
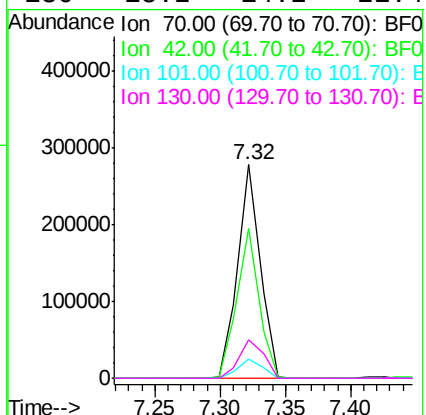
Ion Ratio Lower Upper

70 100

42 70.3 49.4 74.0

101 9.0 7.4 11.2

130 18.2 14.2 21.4



#20

3+4-Methylphenols

Concen: 43.70 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Tgt Ion: 107 Resp: 491622

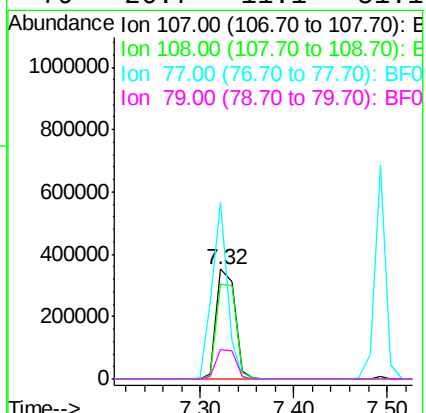
Ion Ratio Lower Upper

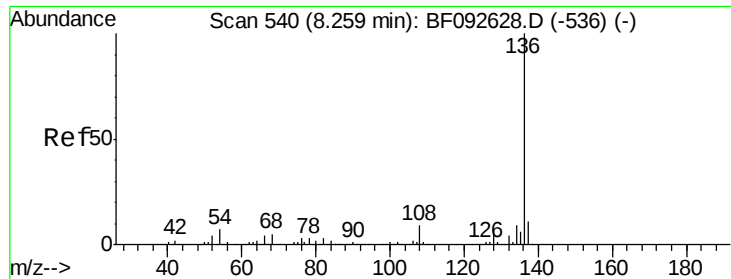
107 100

108 86.5 73.0 113.0

77 160.3 71.3 111.3#

79 26.7 11.1 51.1

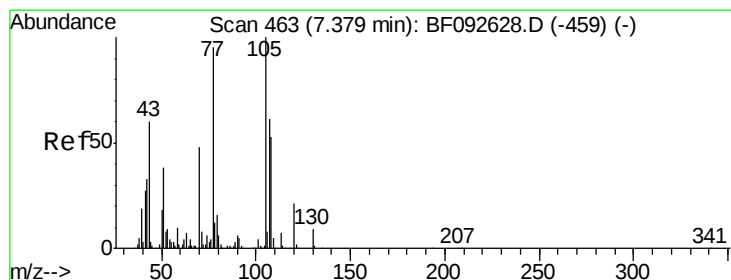
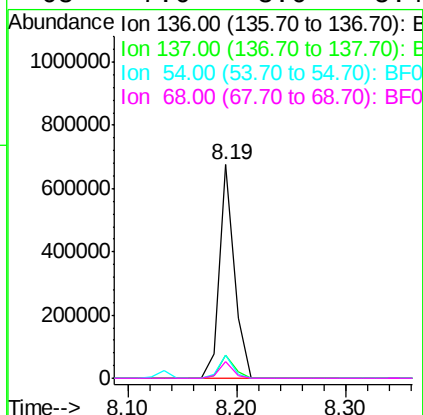
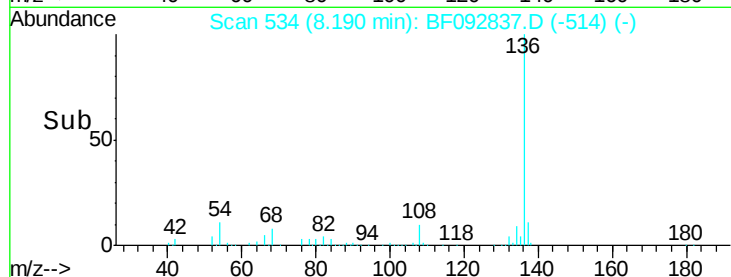
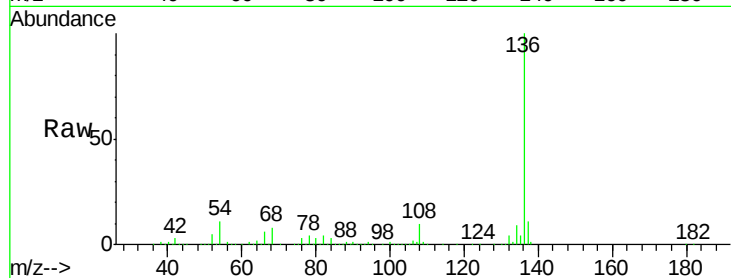




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.19 min Scan# 534  
Delta R.T. -0.07 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

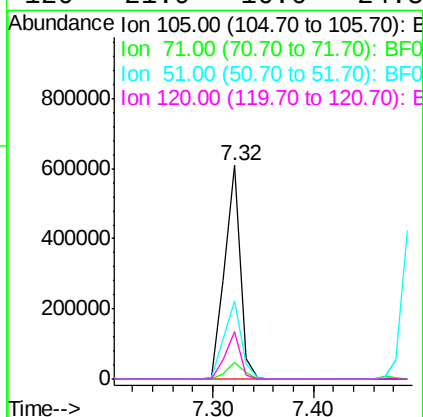
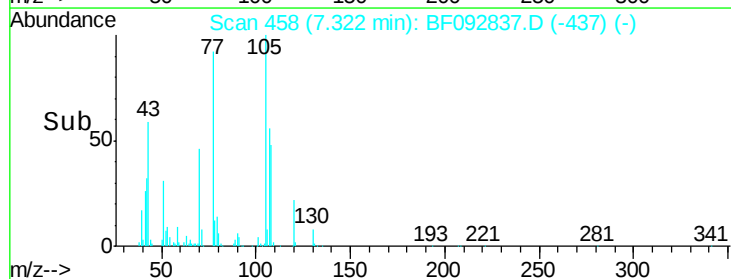
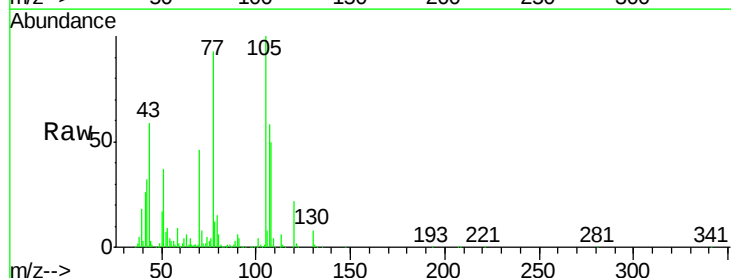
Instrument :  
BNA\_F  
ClientSampleId :  
ROLL-OFF-15-40-COMPMSD

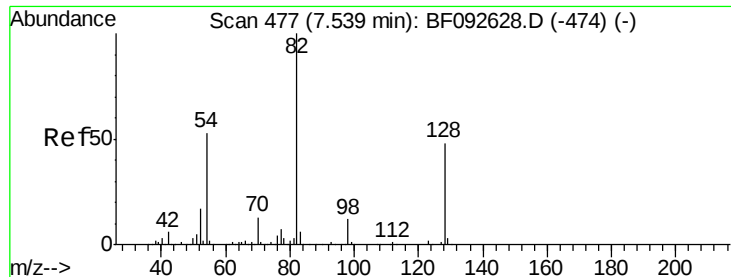
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 649583 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.4   | 12.6   |
| 54       | 11.0  | 4.5   | 6.7#   |
| 68       | 7.6   | 3.6   | 5.4#   |



#22  
Acetophenone  
Concen: 44.24 ng  
RT: 7.32 min Scan# 458  
Delta R.T. -0.06 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 656113 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 7.9   | 3.2   | 4.8#   |
| 51       | 36.6  | 26.2  | 39.4   |
| 120      | 21.9  | 16.6  | 24.8   |

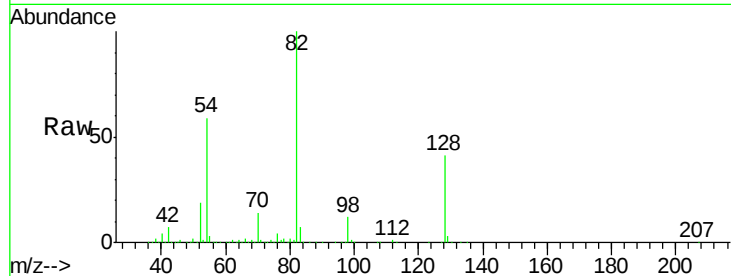




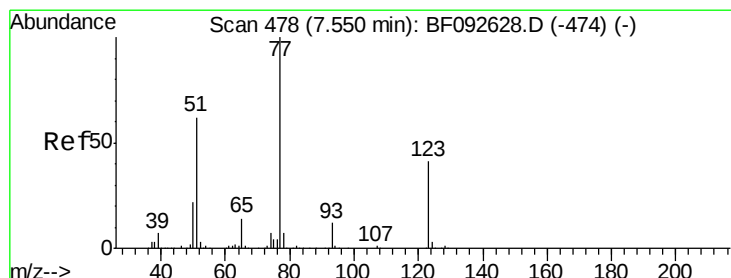
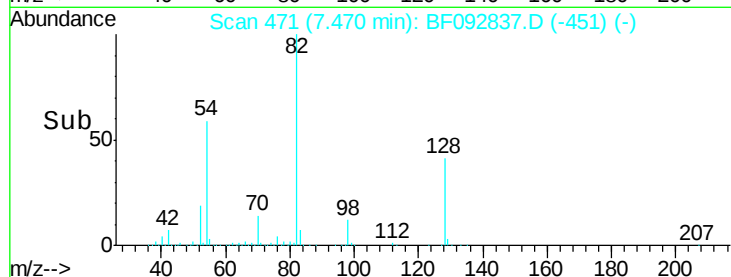
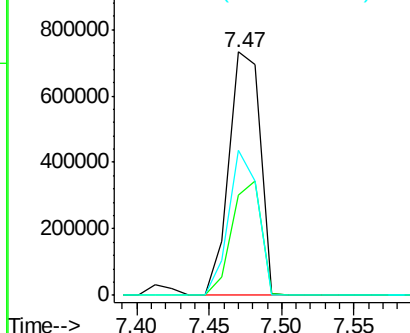
#23  
 Nitrobenzene-d5  
 Concen: 94.16 ng  
 RT: 7.47 min Scan# 471  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Tgt Ion: 82 Resp: 1098401  
 Ion Ratio Lower Upper  
 82 100  
 128 41.1 34.6 52.0  
 54 59.4 39.5 59.3#

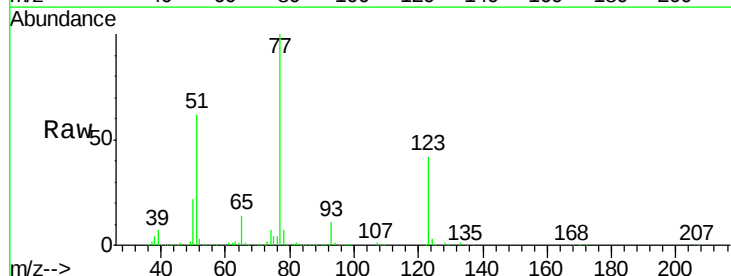


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

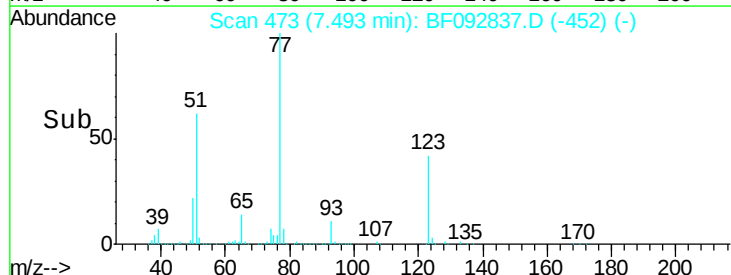
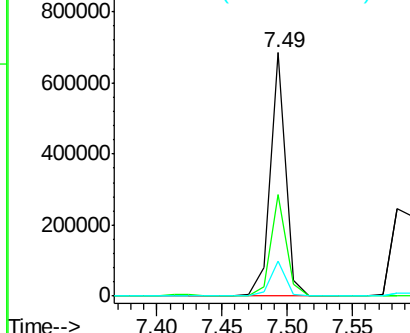


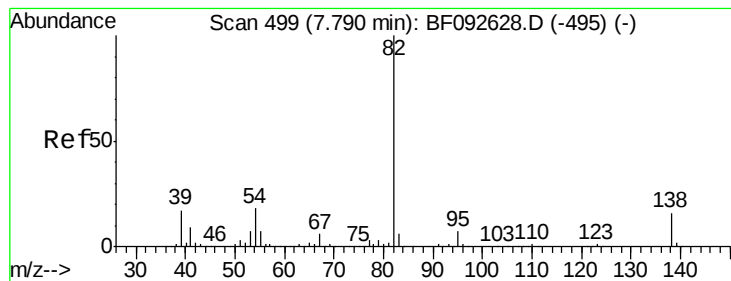
#24  
 Nitrobenzene  
 Concen: 46.58 ng  
 RT: 7.49 min Scan# 473  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion: 77 Resp: 557869  
 Ion Ratio Lower Upper  
 77 100  
 123 41.6 33.0 49.4  
 65 14.3 11.2 16.8



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: 47.84 ng

RT: 7.73 min Scan# 494

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

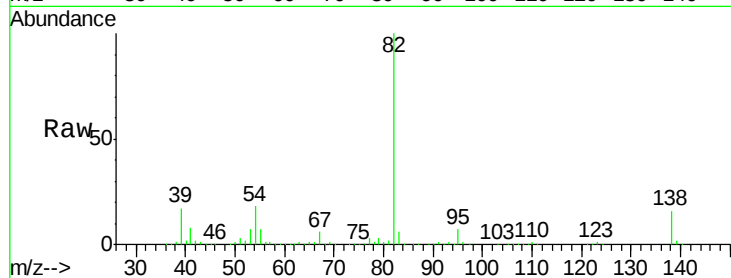
Tgt Ion: 82 Resp: 1039945

Ion Ratio Lower Upper

82 100

95 6.5 5.6 8.4

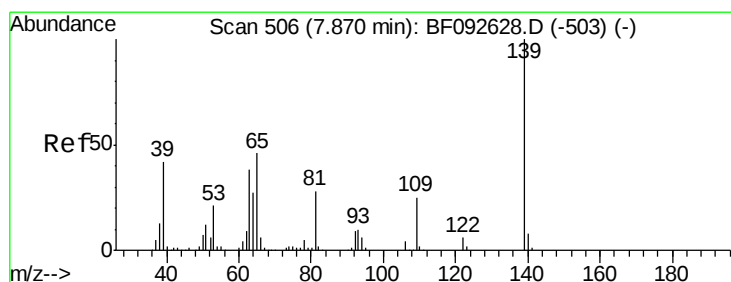
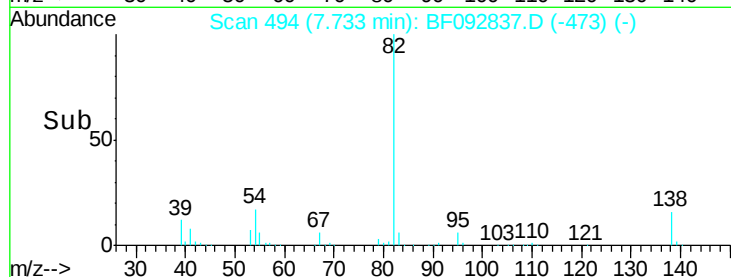
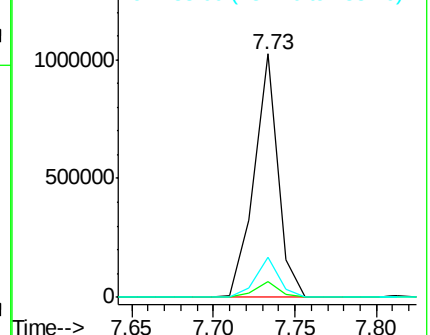
138 16.3 14.6 22.0



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 50.08 ng

RT: 7.81 min Scan# 501

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

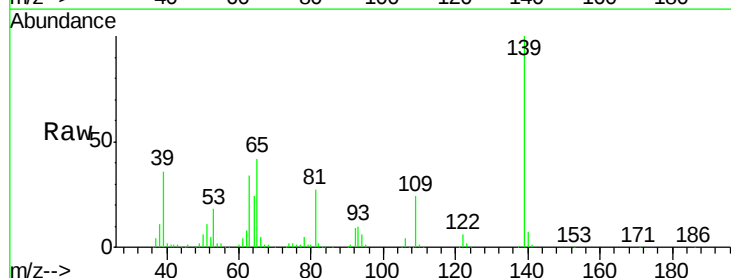
Tgt Ion: 139 Resp: 285163

Ion Ratio Lower Upper

139 100

109 23.5 23.3 34.9

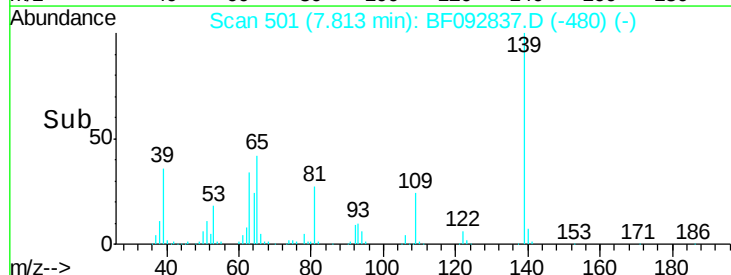
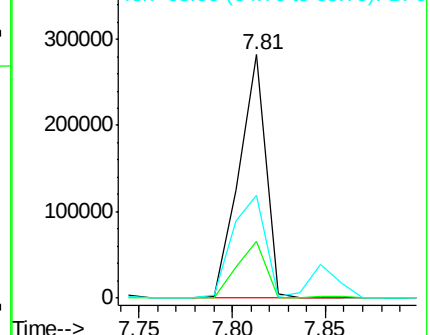
65 42.3 42.7 64.1#

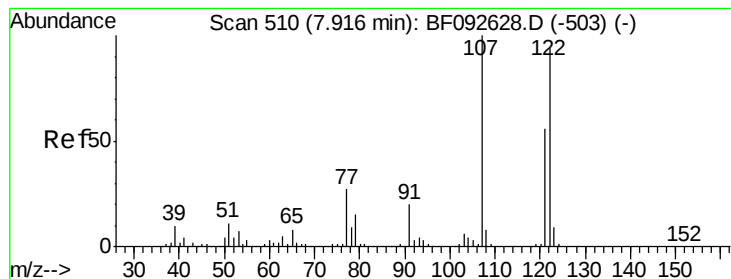


Abundance Ion 139.00 (138.70 to 139.70): BF0

Ion 109.00 (108.70 to 109.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

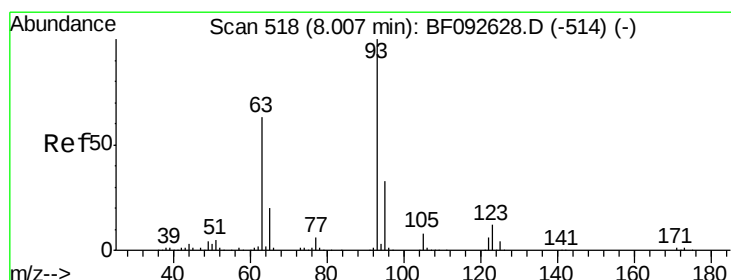
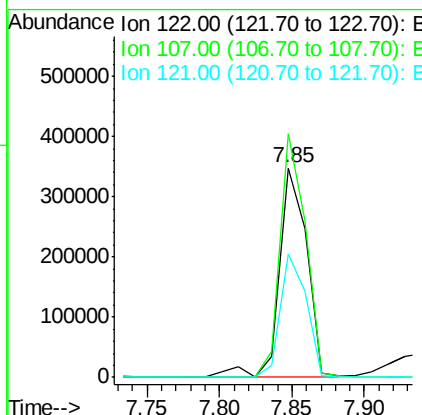
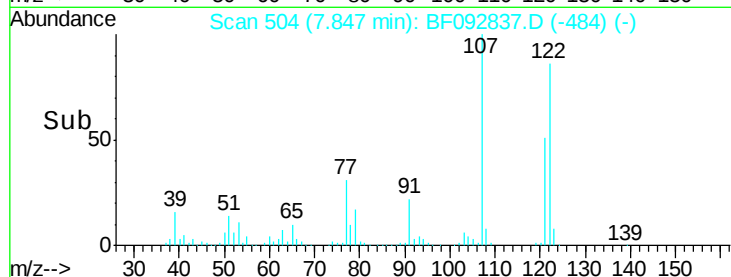
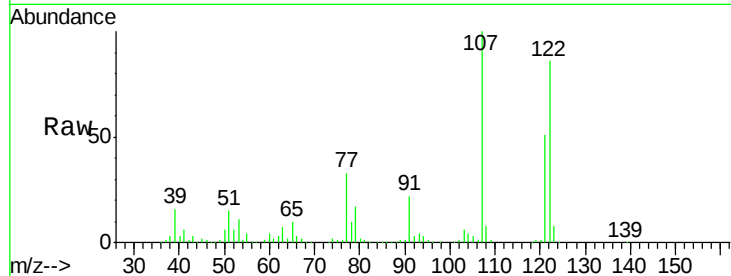




#27  
 2,4-Dimethylphenol  
 Concen: 45.66 ng  
 RT: 7.85 min Scan# 504  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

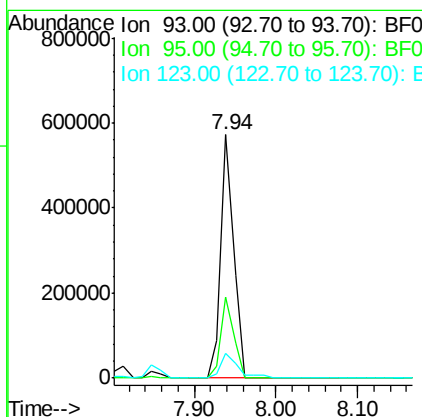
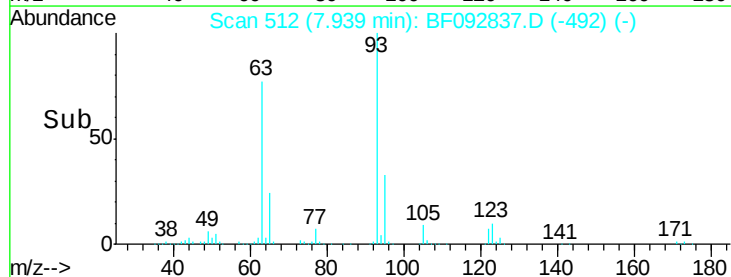
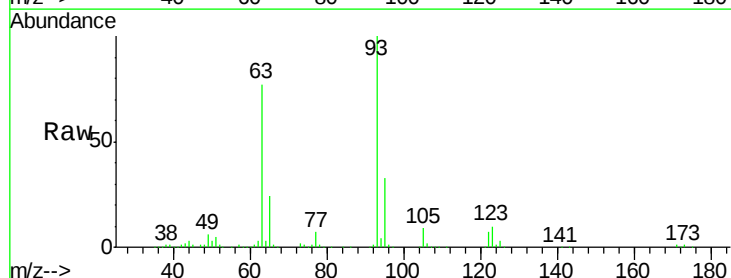
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

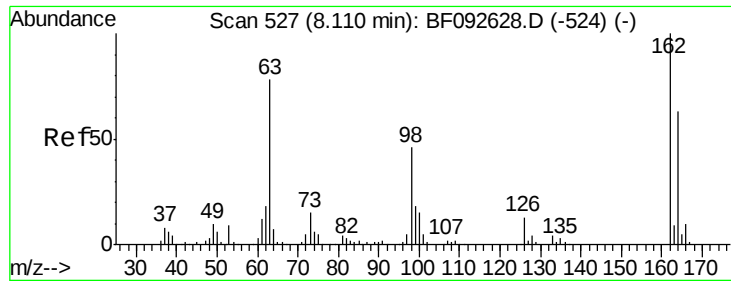
Tgt Ion:122 Resp: 456550  
 Ion Ratio Lower Upper  
 122 100  
 107 116.2 94.1 141.1  
 121 58.8 46.0 69.0



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 43.47 ng  
 RT: 7.94 min Scan# 512  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion: 93 Resp: 625806  
 Ion Ratio Lower Upper  
 93 100  
 95 33.5 26.5 39.7  
 123 10.2 8.6 13.0

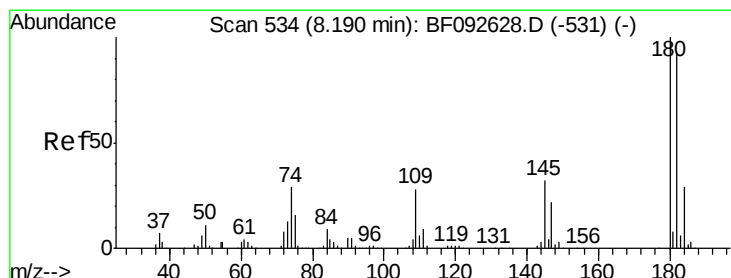
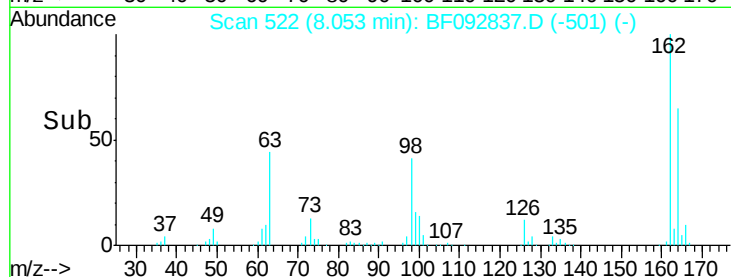
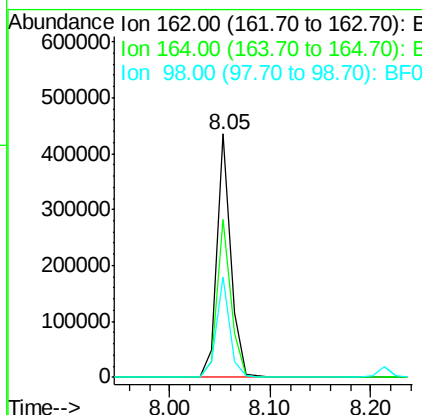
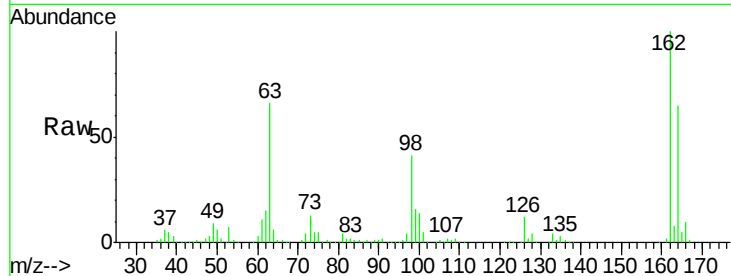




#29  
 2,4-Dichlorophenol  
 Concen: 44.95 ng  
 RT: 8.05 min Scan# 522  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

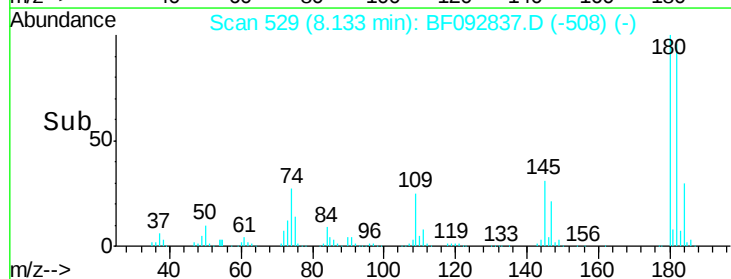
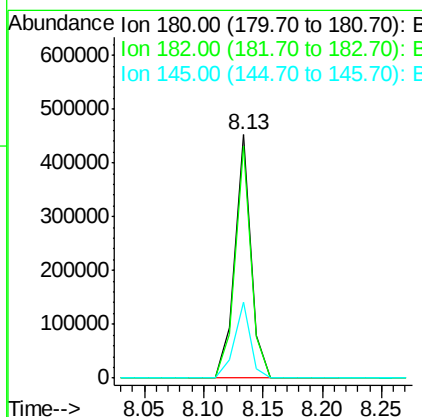
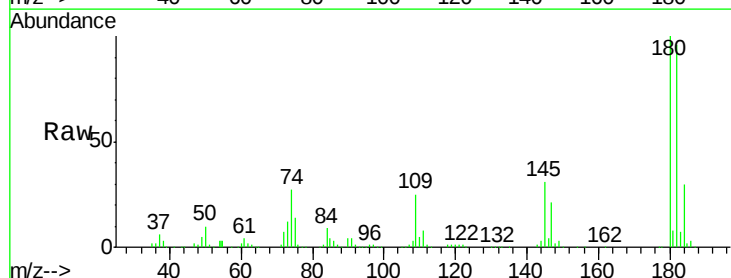
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.6  | 46.8  | 86.8  |
| 98      | 41.0  | 9.1   | 49.1  |



#30  
 1,2,4-Trichlorobenzene  
 Concen: 42.75 ng  
 RT: 8.13 min Scan# 529  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 78.2  | 117.4 |
| 145     | 31.0  | 21.6  | 32.4  |





#31

Naphthalene

Concen: 39.59 ng

RT: 8.21 min Scan# 536

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

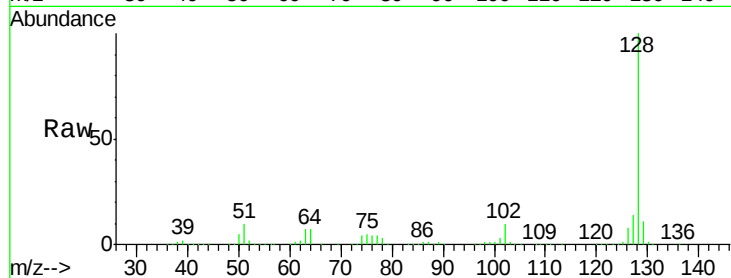
Tgt Ion:128 Resp: 1303557

Ion Ratio Lower Upper

128 100

129 11.3 9.5 14.3

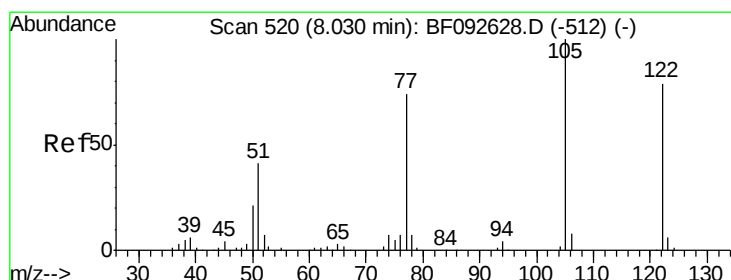
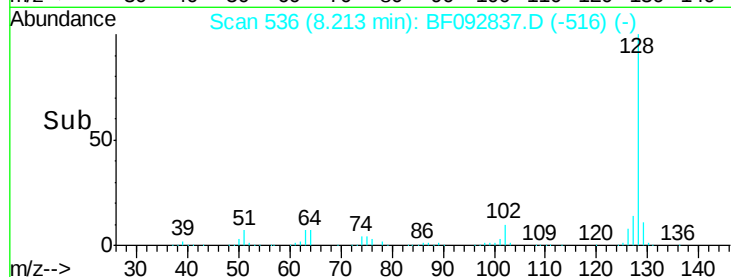
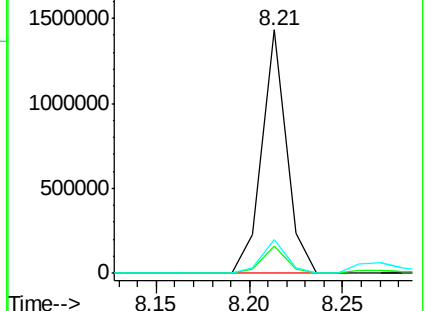
127 13.7 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 52.64 ng

RT: 7.98 min Scan# 516

Delta R.T. -0.05 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

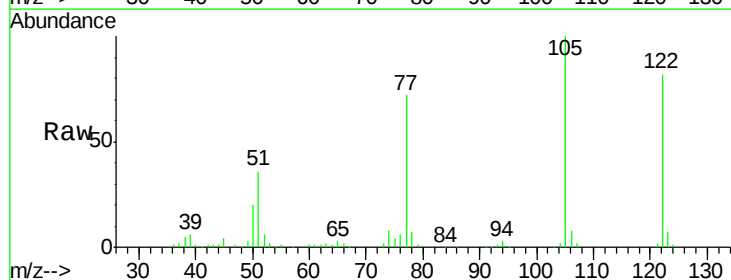
Tgt Ion:122 Resp: 302857

Ion Ratio Lower Upper

122 100

105 121.8 107.2 147.2

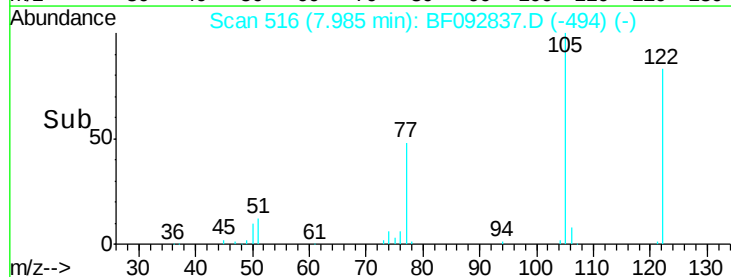
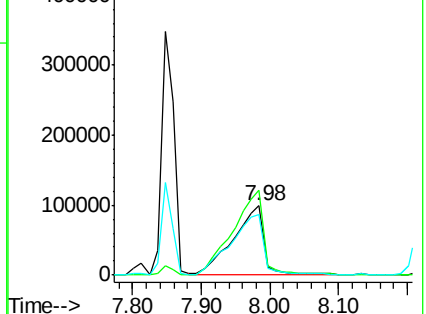
77 88.1 74.5 114.5

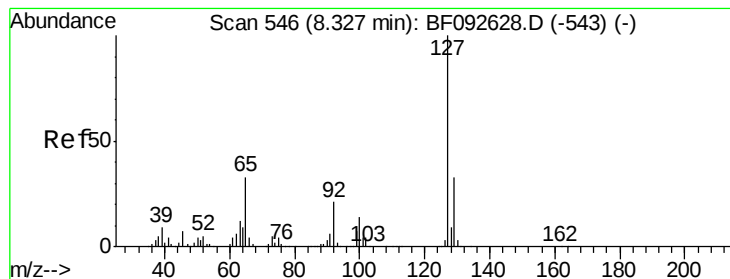


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





#33

4-Chloroaniline

Concen: 9.76 ng

RT: 8.27 min Scan# 541

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

Tgt Ion:127 Resp: 126056

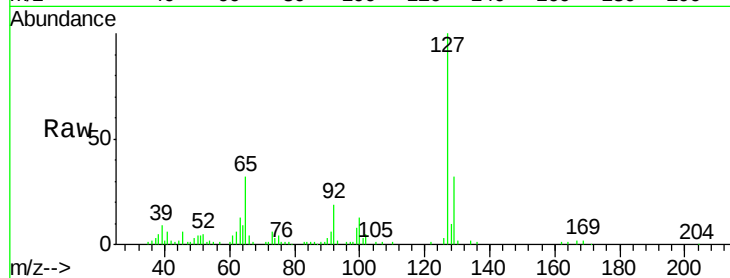
Ion Ratio Lower Upper

127 100

129 32.0 26.3 39.5

65 31.9 25.8 38.8

92 19.5 16.1 24.1

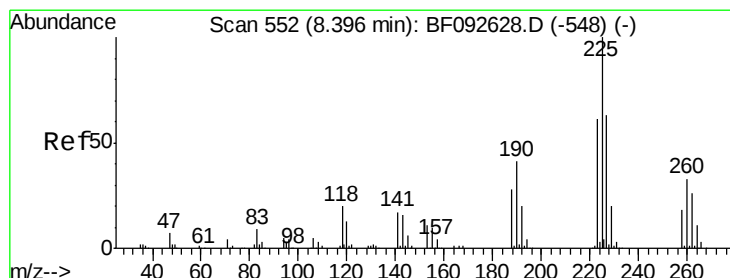
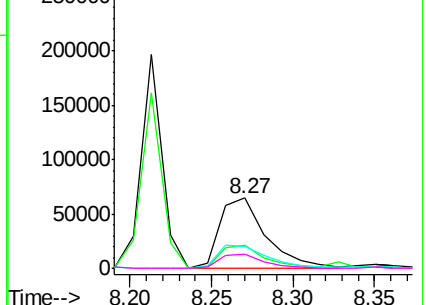
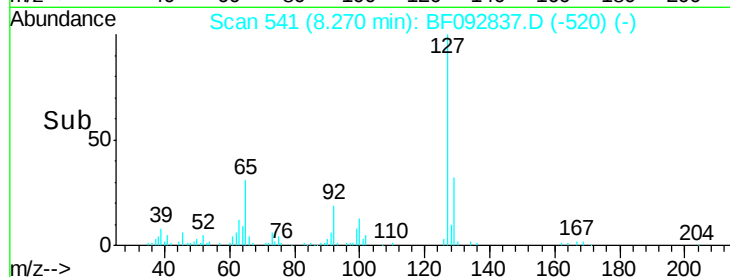


Abundance Ion 127.00 (126.70 to 127.70): E

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: 39.03 ng

RT: 8.33 min Scan# 546

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

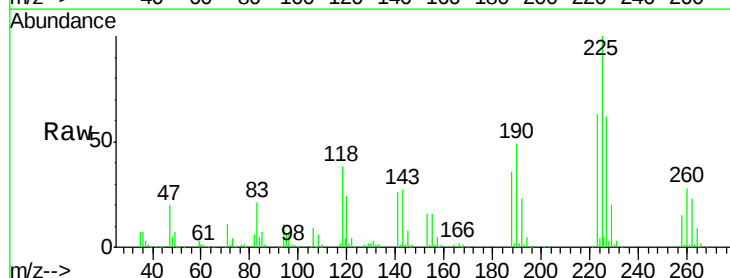
Tgt Ion:225 Resp: 215796

Ion Ratio Lower Upper

225 100

223 63.2 51.0 76.6

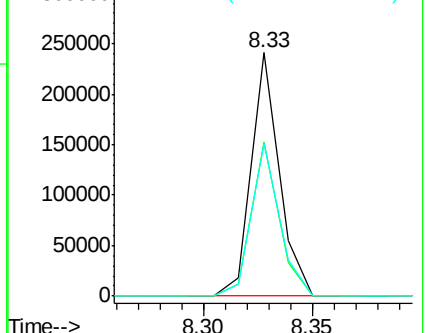
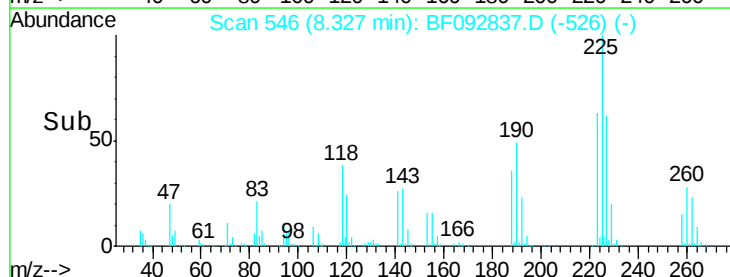
227 62.5 50.6 76.0



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: 42.57 ng

RT: 8.64 min Scan# 573

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

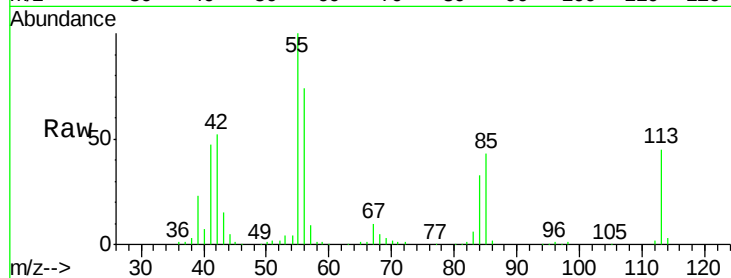
Tgt Ion:113 Resp: 124864

Ion Ratio Lower Upper

113 100

55 221.1 119.2 159.2#

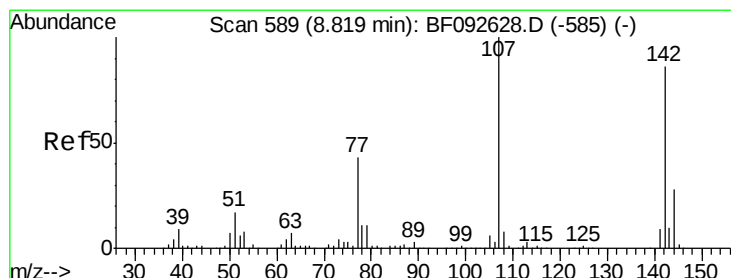
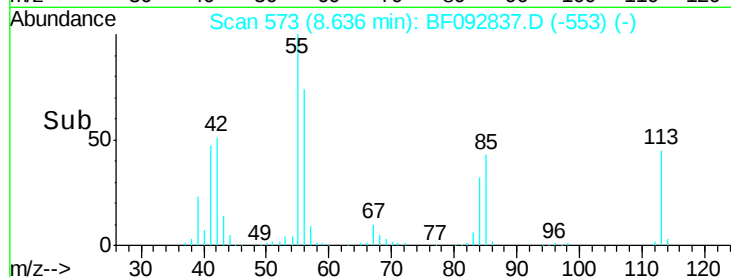
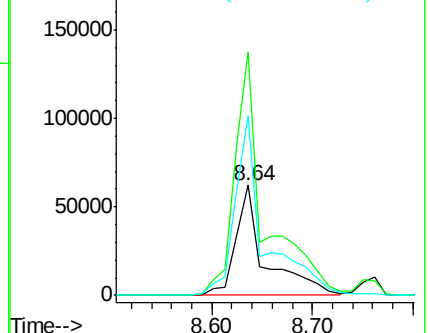
56 163.5 83.8 123.8#



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: 49.53 ng

RT: 8.76 min Scan# 584

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

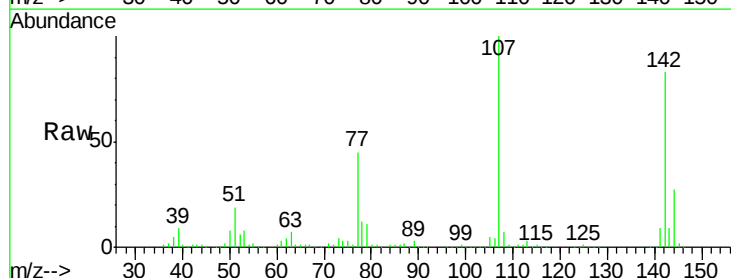
Tgt Ion:107 Resp: 481614

Ion Ratio Lower Upper

107 100

144 27.1 19.3 28.9

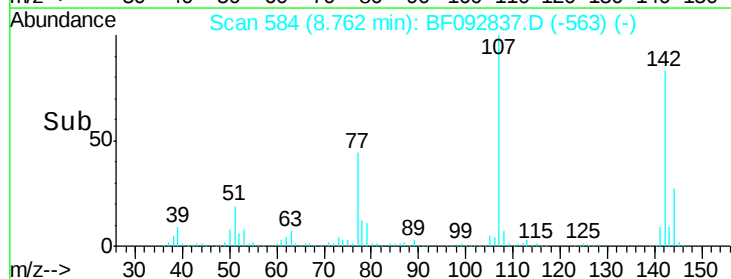
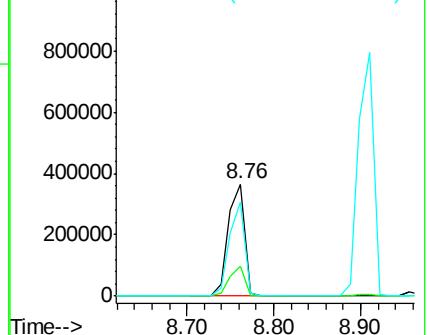
142 83.4 59.0 88.6

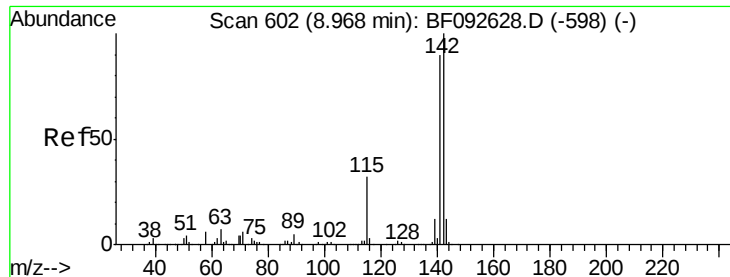


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

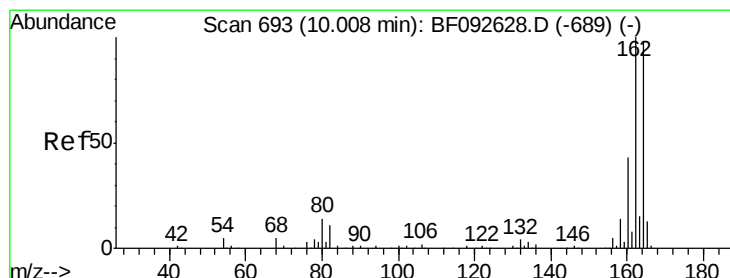
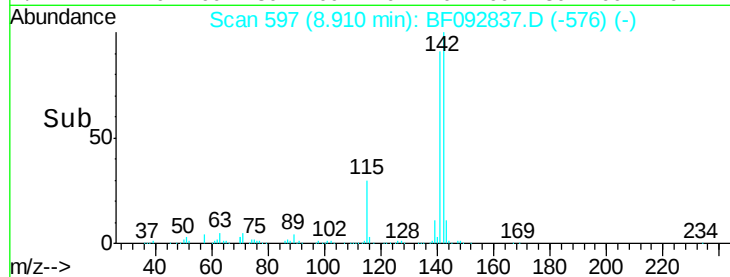
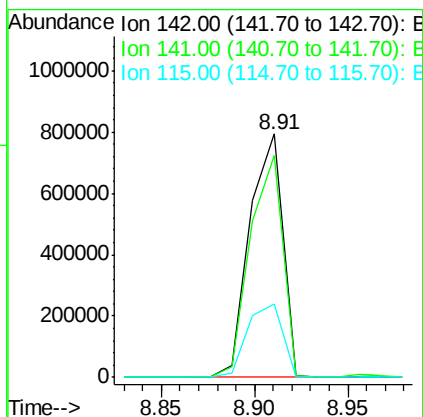
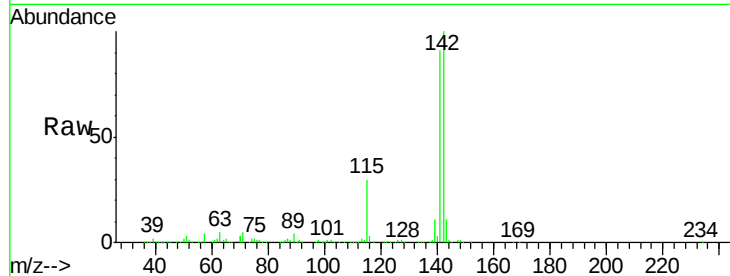




#37  
 2-Methylnaphthalene  
 Concen: 46.04 ng  
 RT: 8.91 min Scan# 597  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

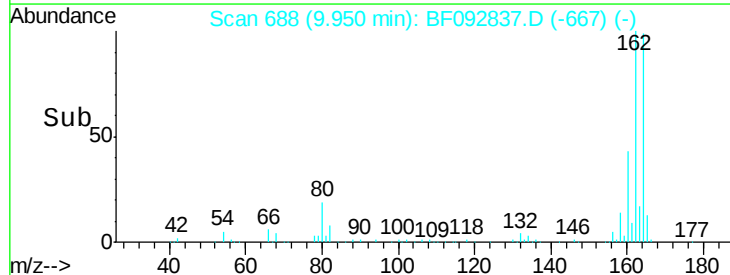
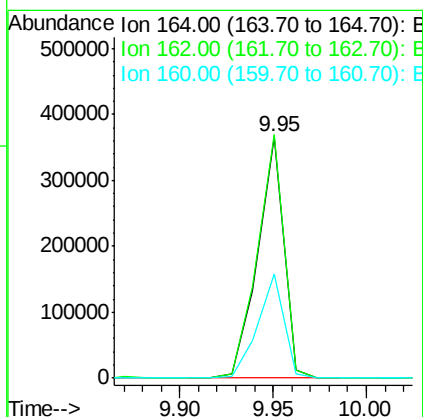
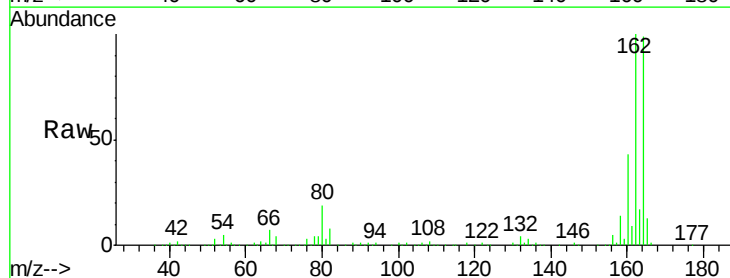
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

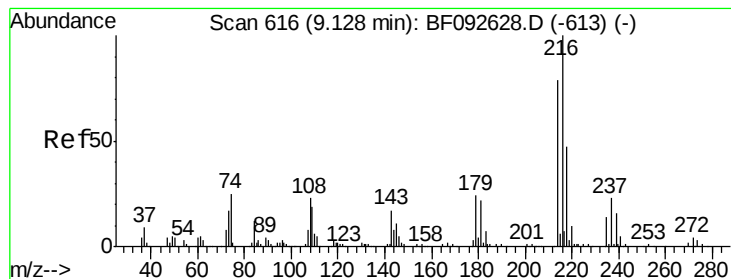
Tgt Ion:142 Resp: 973493  
 Ion Ratio Lower Upper  
 142 100  
 141 91.3 71.0 106.6  
 115 30.4 28.3 42.5



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.95 min Scan# 688  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:164 Resp: 355268  
 Ion Ratio Lower Upper  
 164 100  
 162 100.8 80.2 120.2  
 160 43.3 36.9 55.3





#39

1,2,4,5-Tetrachlorobenzene

Concen: 41.17 ng

RT: 9.07 min Scan# 611

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

Tgt Ion:216 Resp: 410577

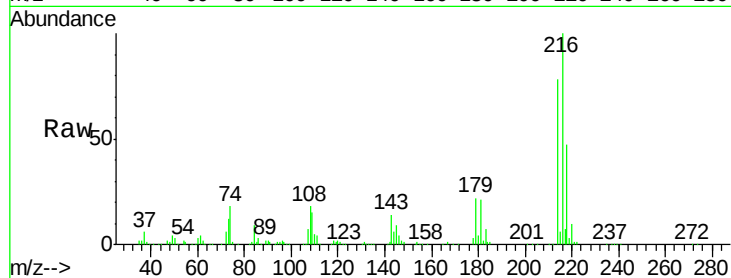
Ion Ratio Lower Upper

216 100

214 78.6 63.4 95.0

179 21.9 17.4 26.2

108 19.4 15.6 23.4

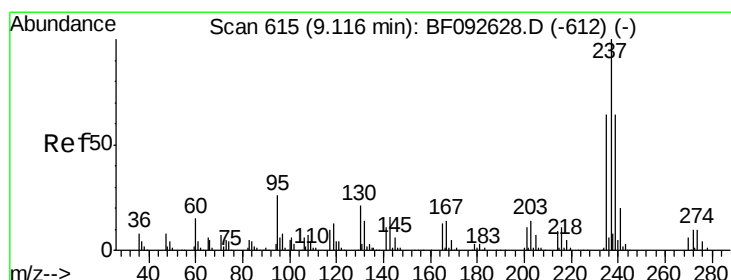
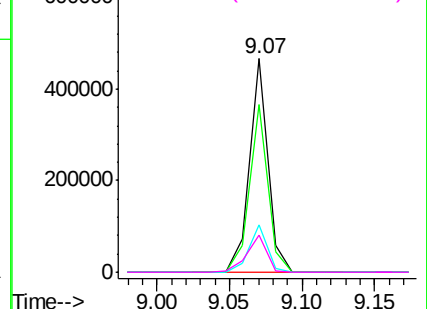
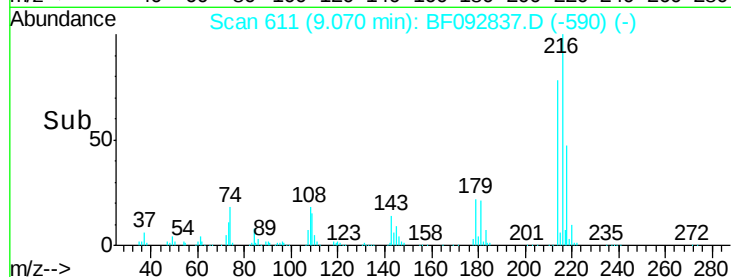


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 29.51 ng

RT: 9.06 min Scan# 610

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

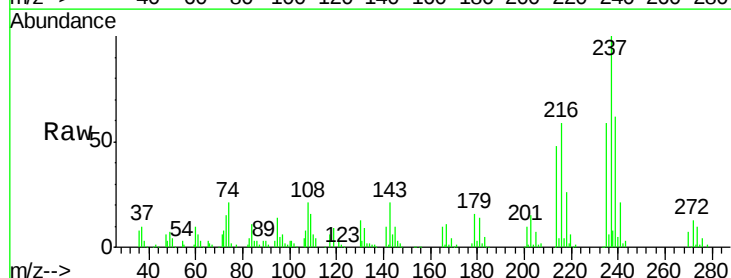
Tgt Ion:237 Resp: 132793

Ion Ratio Lower Upper

237 100

235 59.3 41.2 81.2

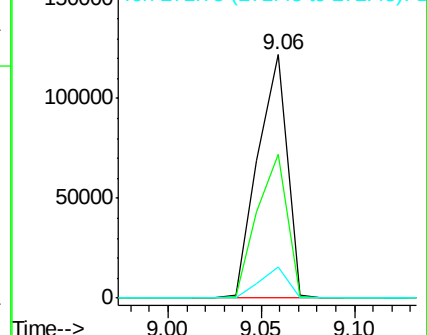
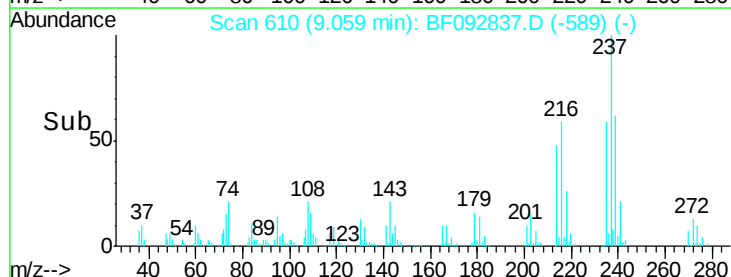
272 12.9 0.0 35.4



Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

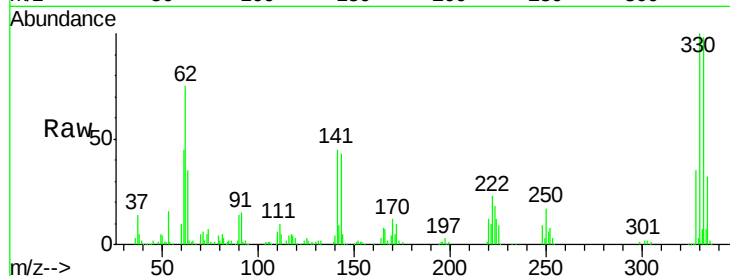




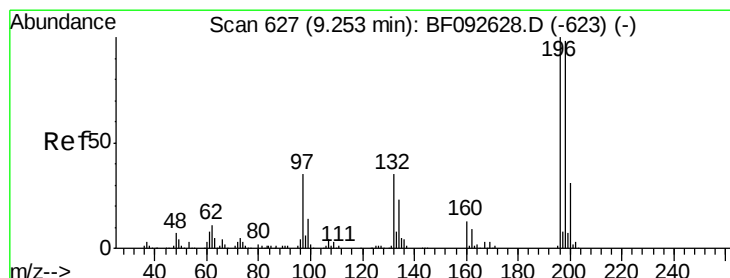
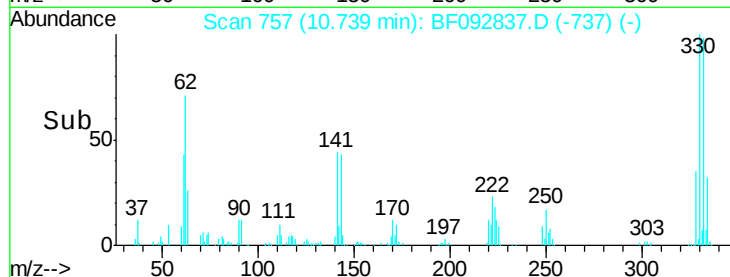
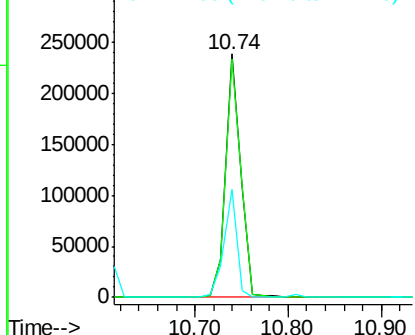
#41  
 2,4,6-Tribromophenol  
 Concen: 104.70 ng  
 RT: 10.74 min Scan# 757  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Tgt Ion:330 Resp: 269032  
 Ion Ratio Lower Upper  
 330 100  
 332 98.9 77.4 116.2  
 141 37.5 34.1 51.1

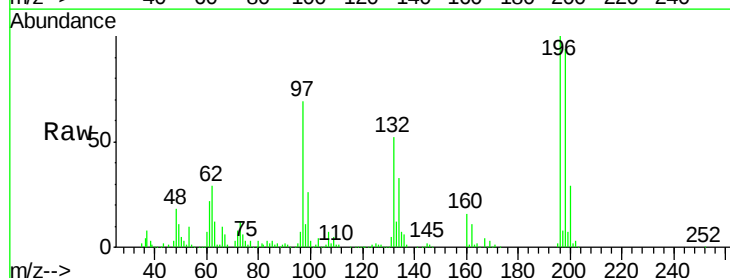


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

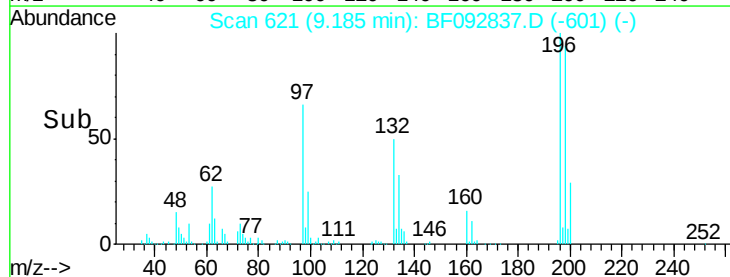
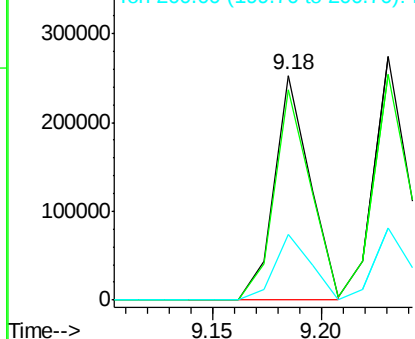


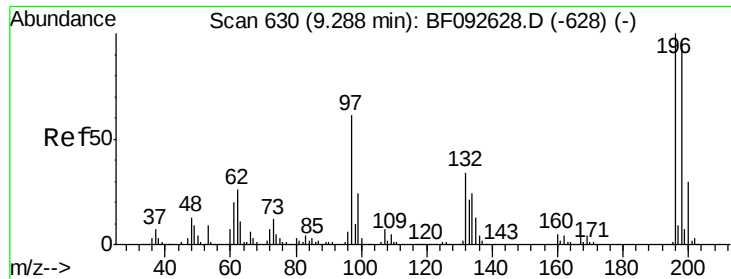
#42  
 2,4,6-Trichlorophenol  
 Concen: 44.34 ng  
 RT: 9.18 min Scan# 621  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:196 Resp: 290574  
 Ion Ratio Lower Upper  
 196 100  
 198 93.7 82.1 123.1  
 200 29.2 27.0 40.4



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

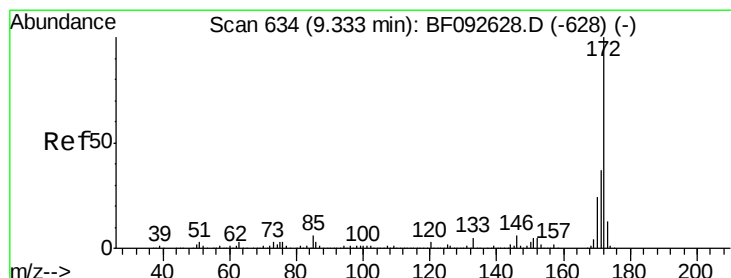
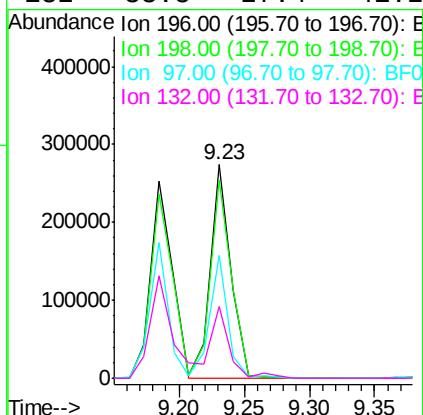
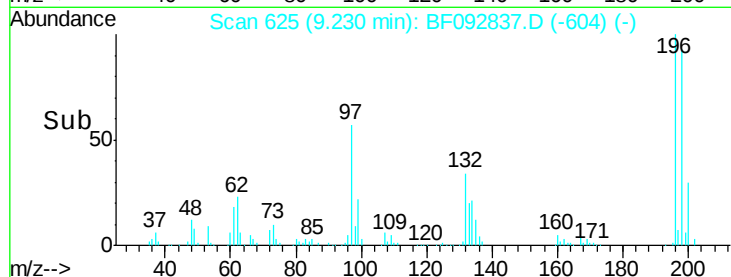
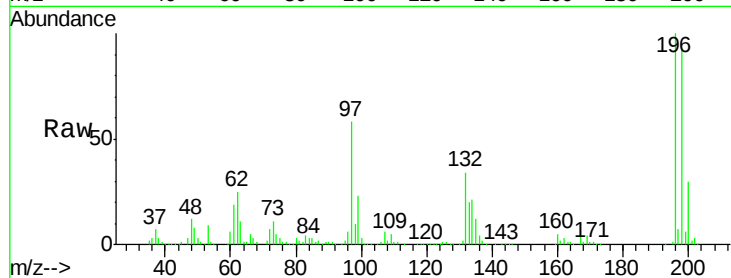




#43  
 2,4,5-Trichlorophenol  
 Concen: 41.82 ng  
 RT: 9.23 min Scan# 625  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

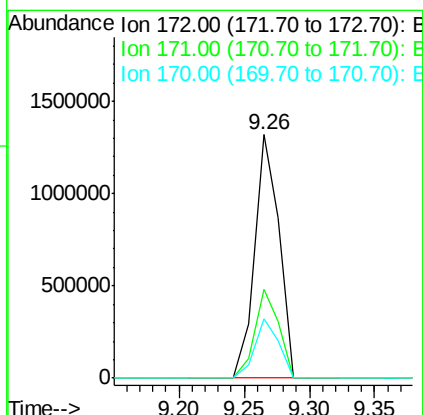
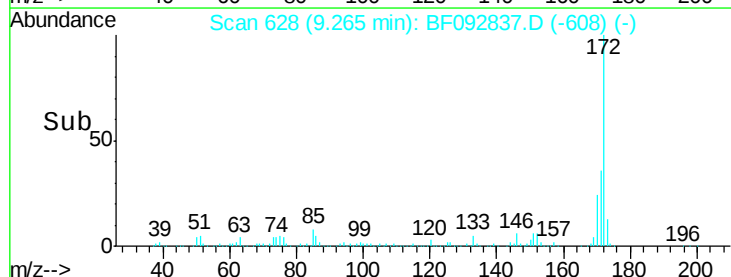
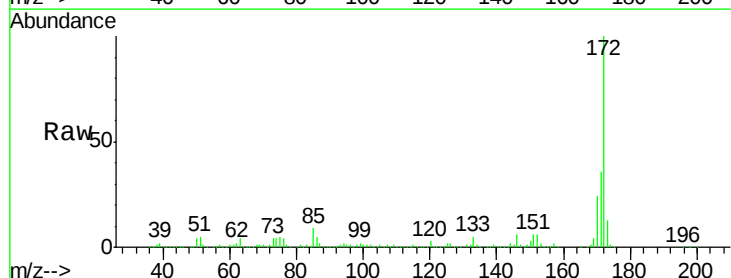
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Tgt Ion:196 Resp: 300242  
 Ion Ratio Lower Upper  
 196 100  
 198 92.9 79.4 119.2  
 97 57.7 51.5 77.3  
 132 33.8 27.4 41.2



#44  
 2-Fluorobiphenyl  
 Concen: 87.34 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:172 Resp: 1712675  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.4 44.0  
 170 24.3 20.2 30.4





#45

1,1'-Biphenyl

Concen: 41.30 ng

RT: 9.37 min Scan# 637

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

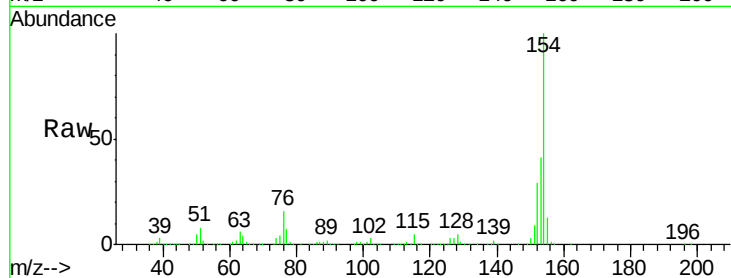
Tgt Ion:154 Resp: 1062536

Ion Ratio Lower Upper

154 100

153 40.9 20.9 60.9

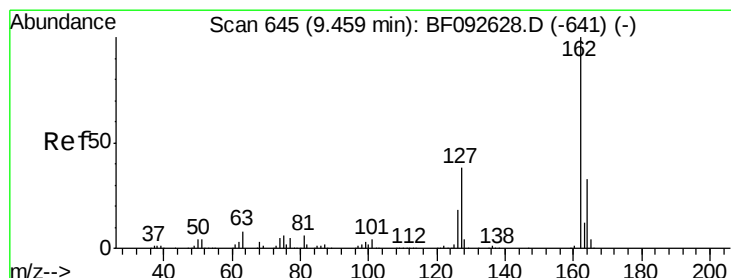
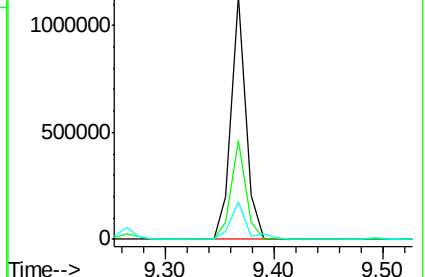
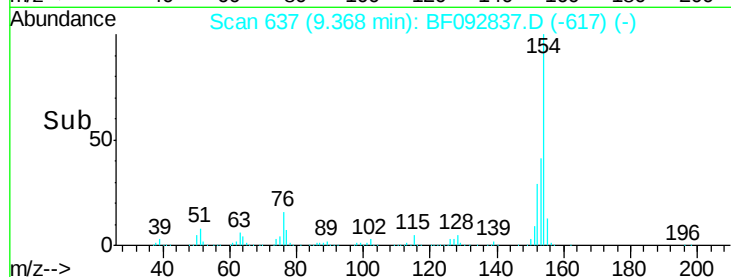
76 15.6 0.0 30.5



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: 43.75 ng

RT: 9.39 min Scan# 639

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

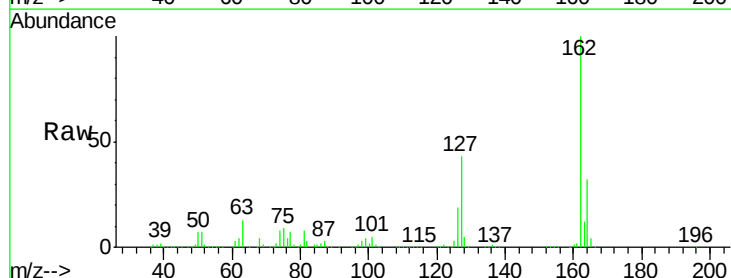
Tgt Ion:162 Resp: 880355

Ion Ratio Lower Upper

162 100

127 42.6 30.7 46.1

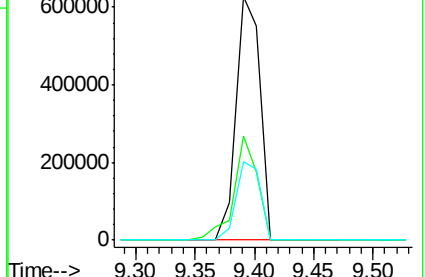
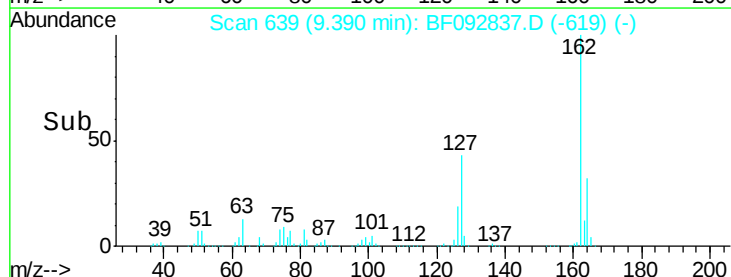
164 32.3 27.6 41.4

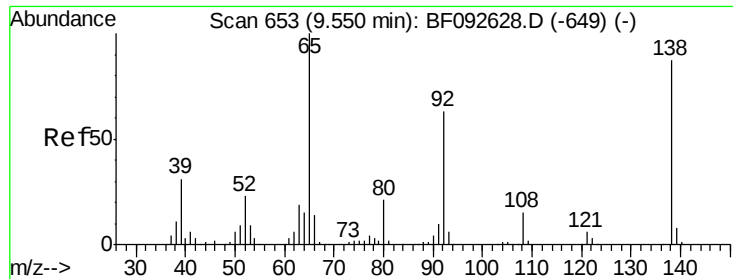


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

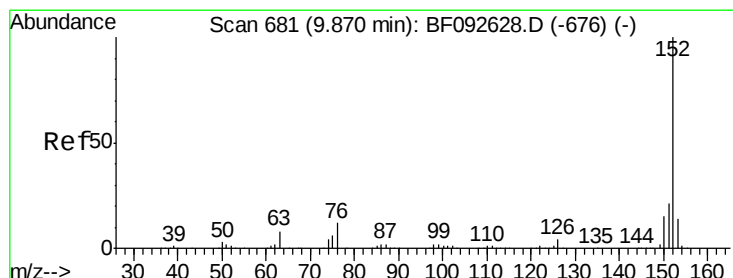
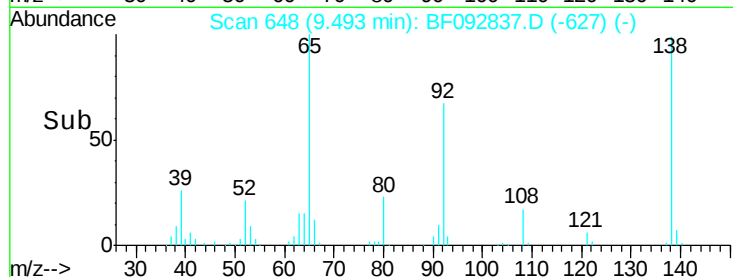
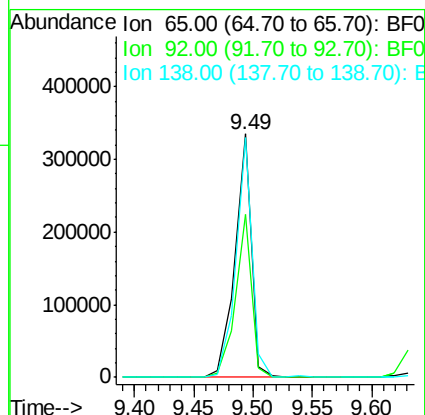
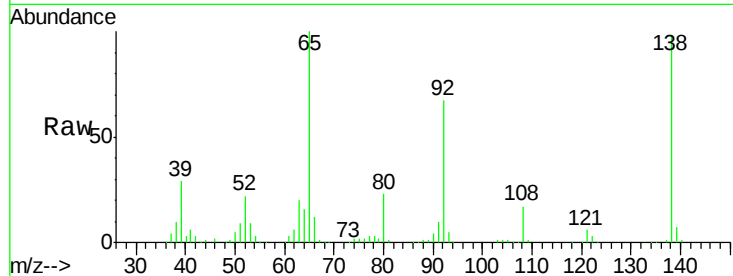




#47  
 2-Nitroaniline  
 Concen: 47.48 ng  
 RT: 9.49 min Scan# 648  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

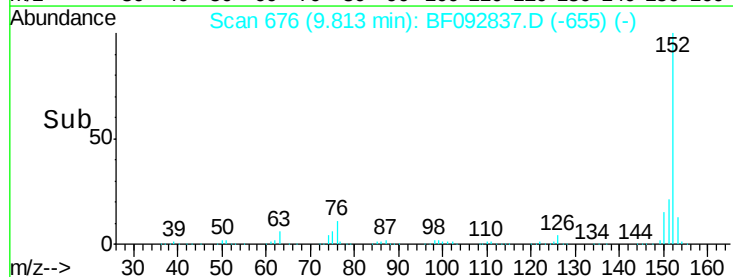
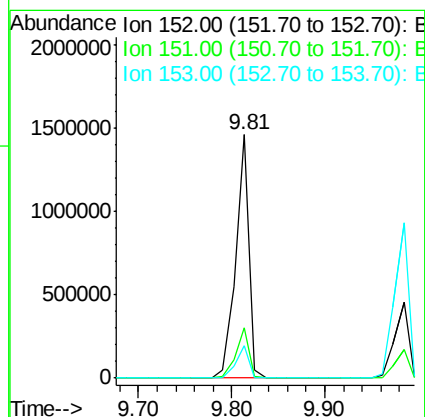
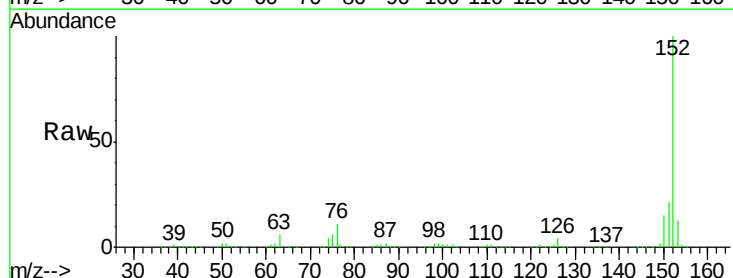
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

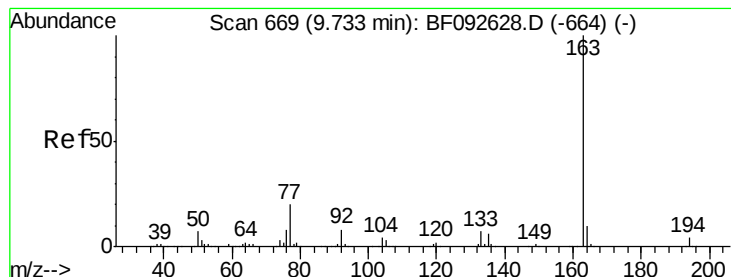
Tgt Ion: 65 Resp: 321288  
 Ion Ratio Lower Upper  
 65 100  
 92 66.7 53.9 80.9  
 138 98.4 76.8 115.2



#48  
 Acenaphthylene  
 Concen: 41.52 ng  
 RT: 9.81 min Scan# 676  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion: 152 Resp: 1443473  
 Ion Ratio Lower Upper  
 152 100  
 151 20.9 16.9 25.3  
 153 13.3 11.4 17.2





#49

Dimethylphthalate

Concen: 48.95 ng

RT: 9.68 min Scan# 664

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

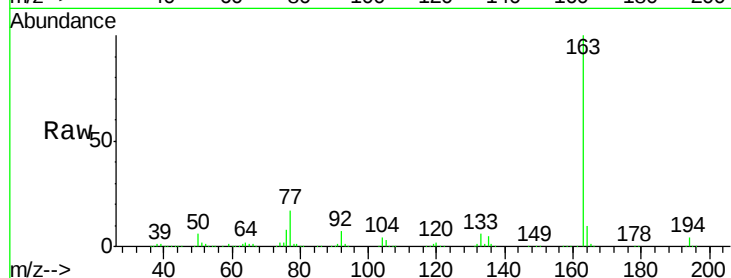
Tgt Ion:163 Resp: 1171372

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.4

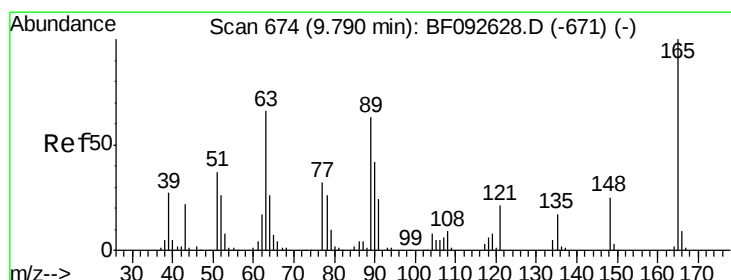
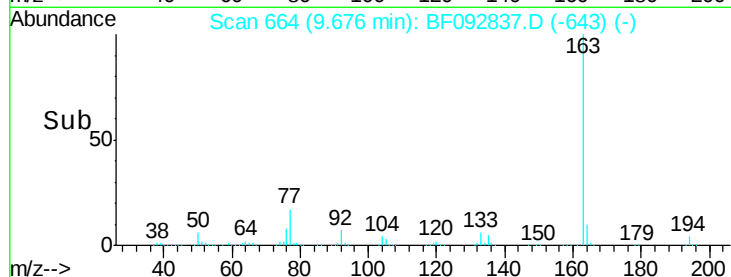
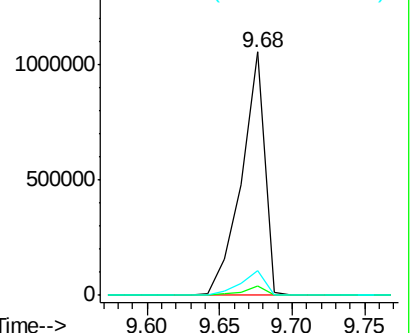
164 10.2 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 41.89 ng

RT: 9.73 min Scan# 669

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

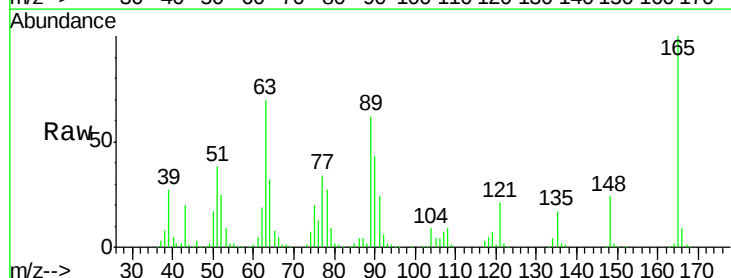
Tgt Ion:165 Resp: 216469

Ion Ratio Lower Upper

165 100

63 70.2 36.2 54.4#

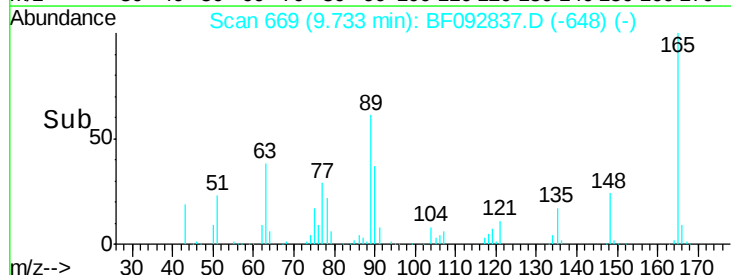
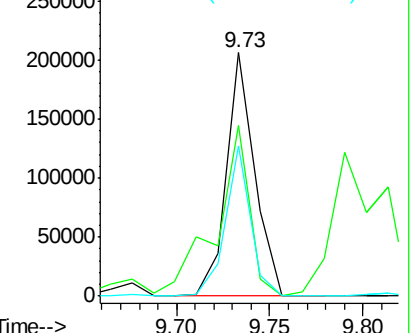
89 61.7 40.2 60.4#

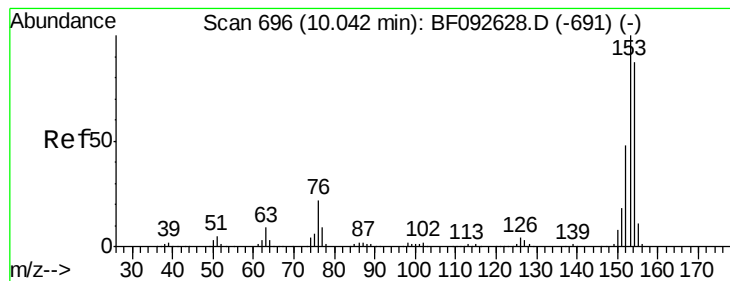


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 43.01 ng

RT: 9.98 min Scan# 691

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

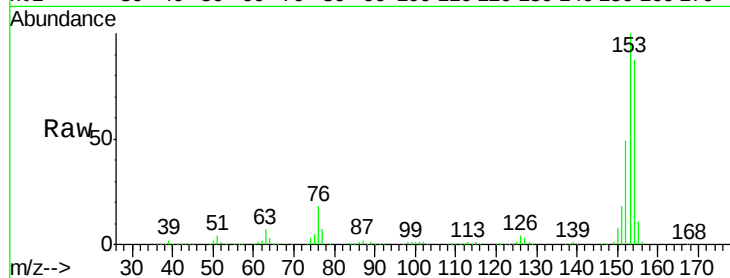
Tgt Ion:154 Resp: 893937

Ion Ratio Lower Upper

154 100

153 114.6 88.6 133.0

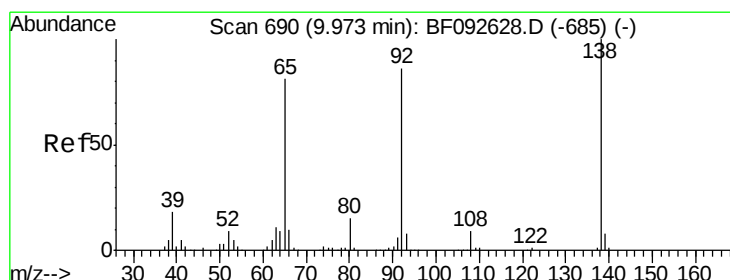
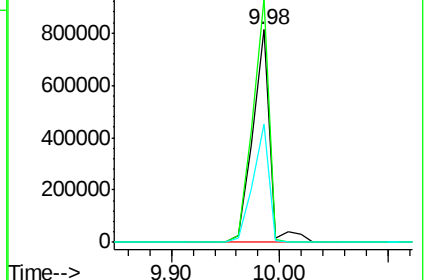
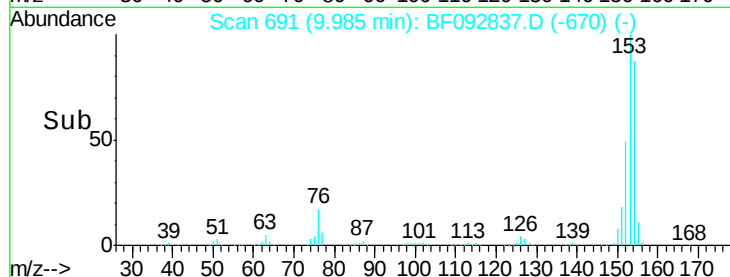
152 55.7 41.6 62.4



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: 24.18 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

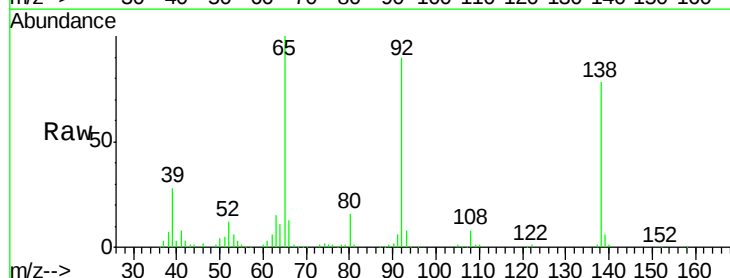
Tgt Ion:138 Resp: 143021

Ion Ratio Lower Upper

138 100

108 10.6 8.5 12.7

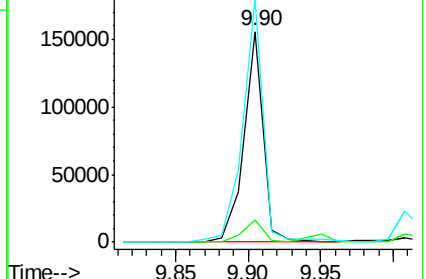
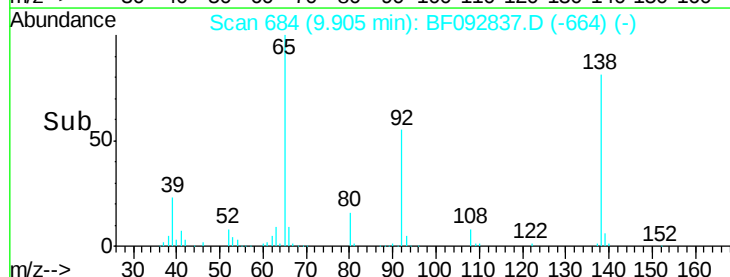
92 115.4 97.8 146.8

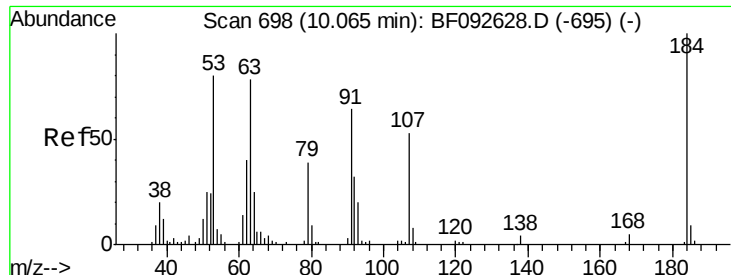


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

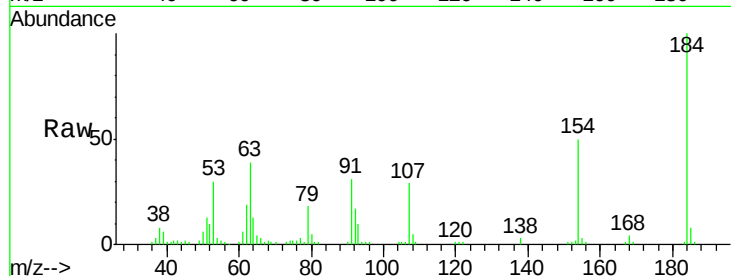




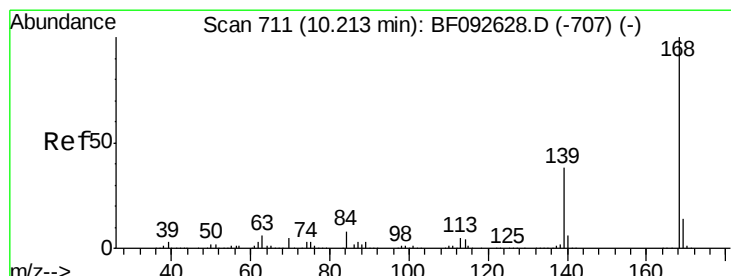
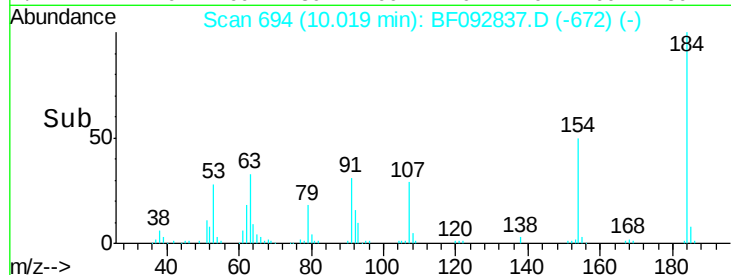
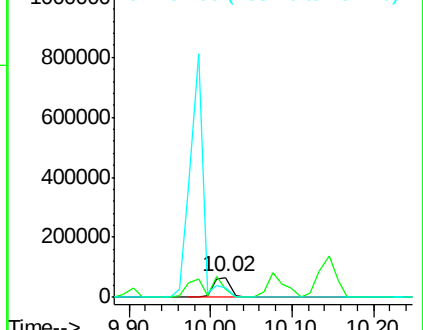
#53  
 2,4-Dinitrophenol  
 Concen: 41.03 ng  
 RT: 10.02 min Scan# 694  
 Delta R.T. -0.04 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Tgt Ion:184 Resp: 101427  
 Ion Ratio Lower Upper  
 184 100  
 63 38.7 28.4 42.6  
 154 50.0 44.3 66.5

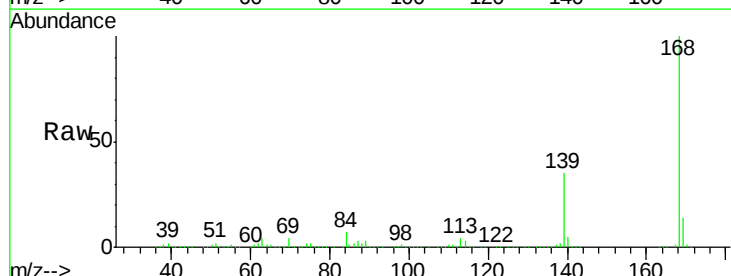


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 154.00 (153.70 to 154.70): E

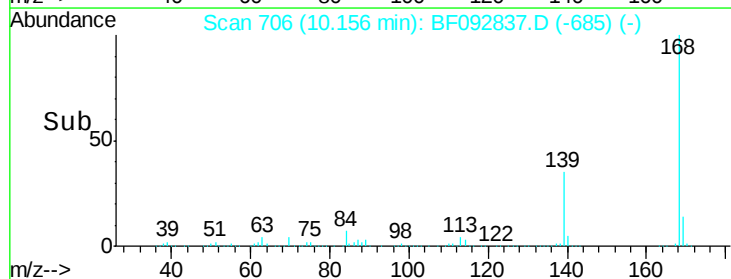
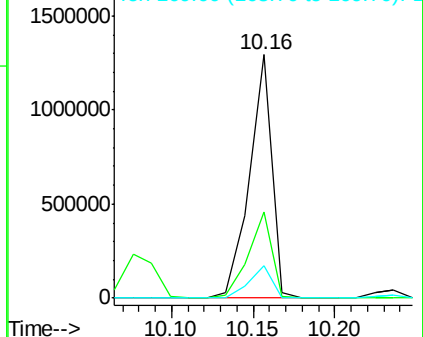


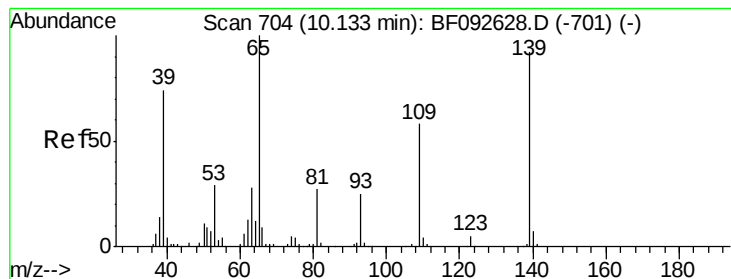
#54  
 Dibenzofuran  
 Concen: 44.29 ng  
 RT: 10.16 min Scan# 706  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:168 Resp: 1231197  
 Ion Ratio Lower Upper  
 168 100  
 139 35.5 32.6 49.0  
 169 13.5 11.3 16.9



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: 76.41 ng

RT: 10.08 min Scan# 699

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

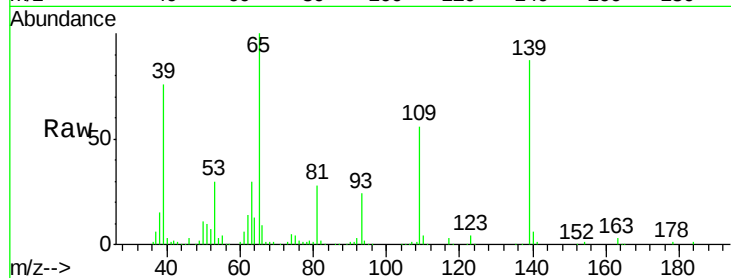
Tgt Ion:139 Resp: 325463

Ion Ratio Lower Upper

139 100

109 64.7 52.2 92.2

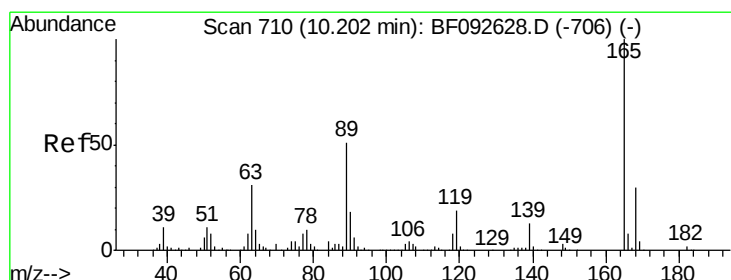
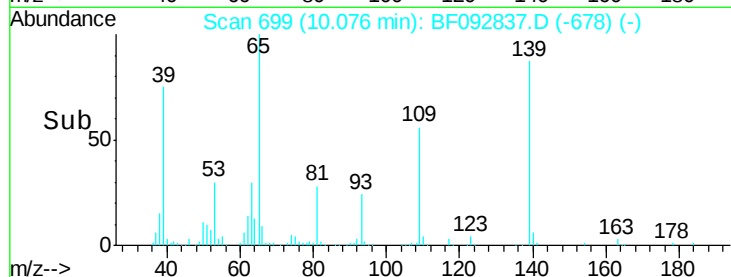
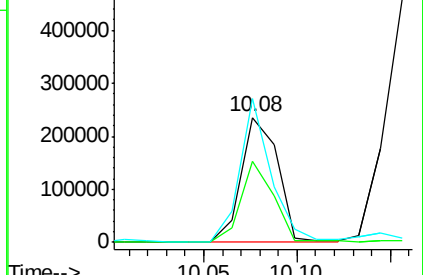
65 114.8 85.8 125.8



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: 47.47 ng

RT: 10.14 min Scan# 705

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Tgt Ion:165 Resp: 326577

Ion Ratio Lower Upper

165 100

63 44.3 40.2 60.4

89 62.4 62.5 93.7#

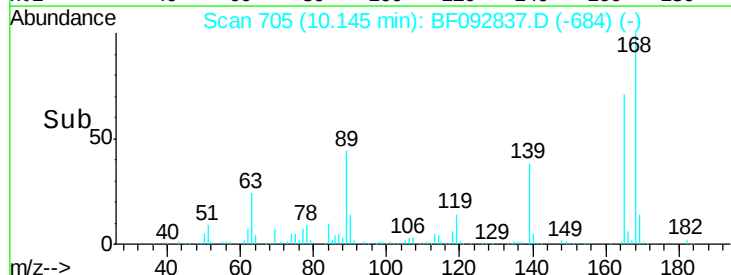
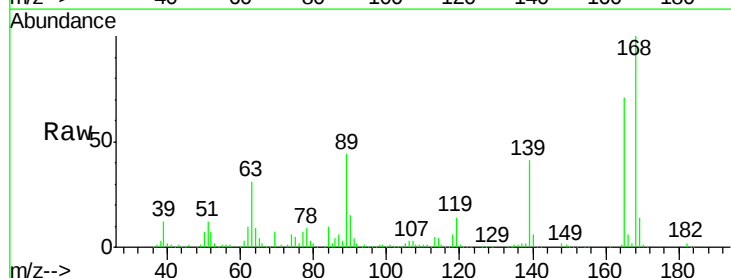
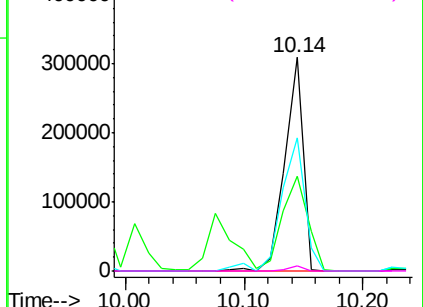
182 2.2 1.8 2.8

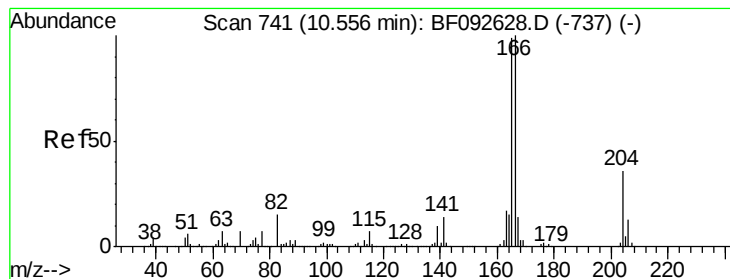
Abundance Ion 165.00 (164.70 to 165.70): E

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: 42.88 ng

RT: 10.50 min Scan# 736

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

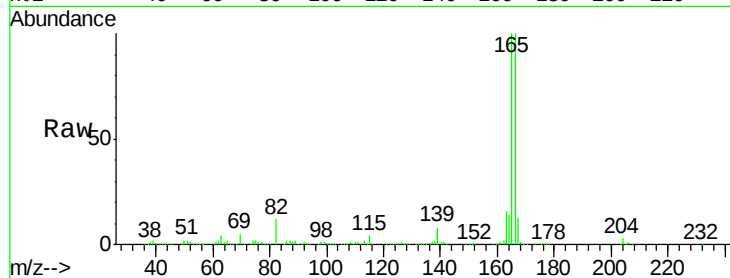
Tgt Ion:166 Resp: 917108

Ion Ratio Lower Upper

166 100

165 99.5 77.8 116.8

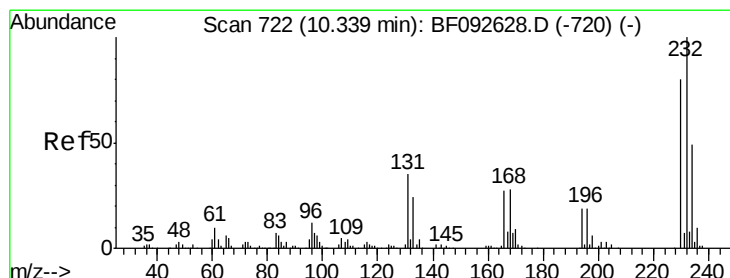
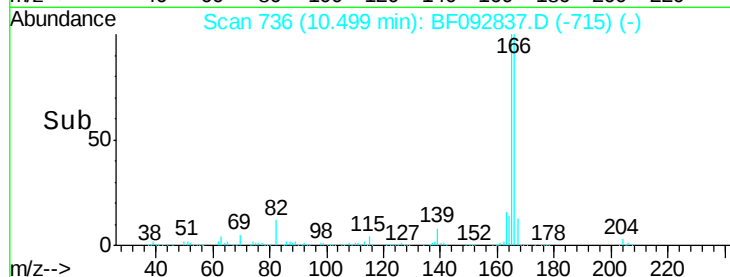
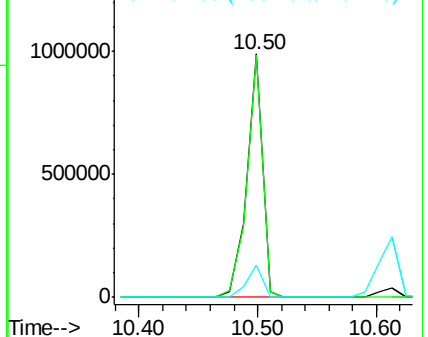
167 13.3 10.8 16.2



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: 44.81 ng

RT: 10.27 min Scan# 716

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Tgt Ion:232 Resp: 214616

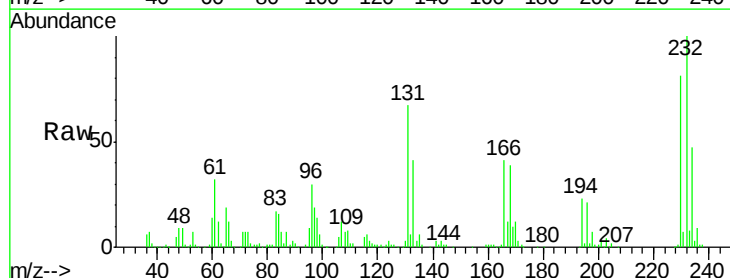
Ion Ratio Lower Upper

232 100

131 50.0 40.1 60.1

130 2.1 1.8 2.8

166 33.3 26.6 39.8

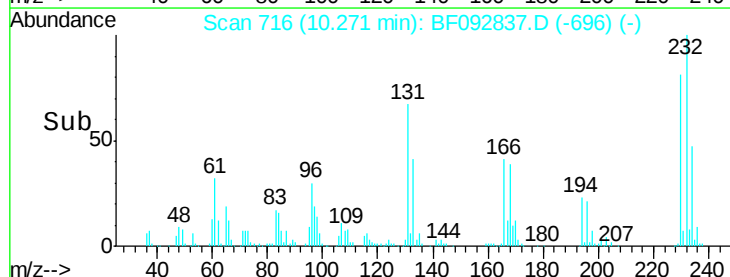
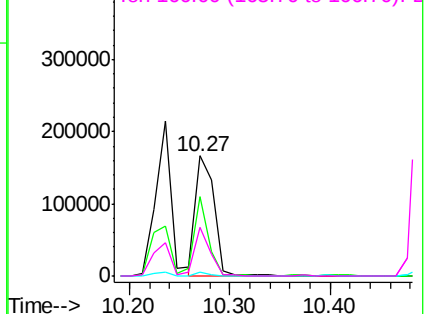


Abundance Ion 232.00 (231.70 to 232.70): E

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: 48.32 ng

RT: 10.37 min Scan# 725

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

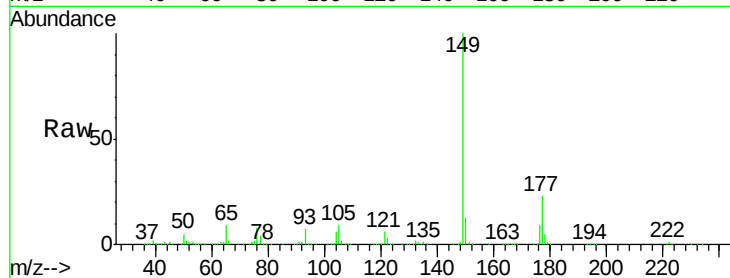
Tgt Ion:149 Resp: 1089643

Ion Ratio Lower Upper

149 100

177 23.2 16.6 25.0

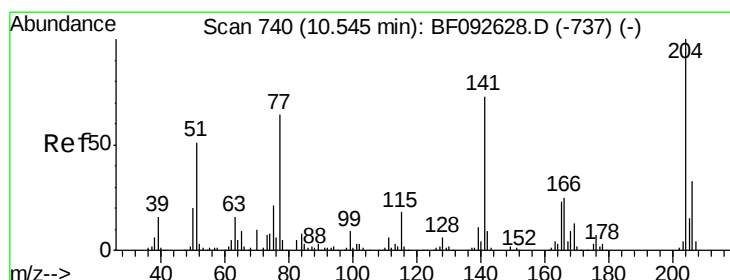
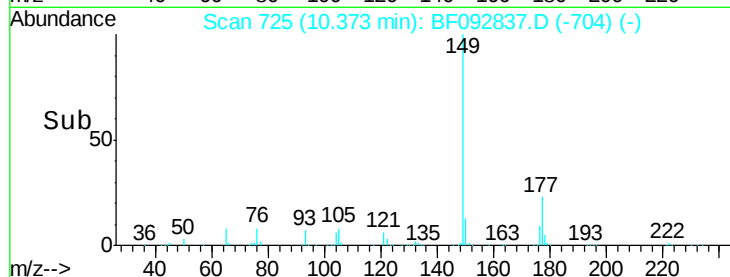
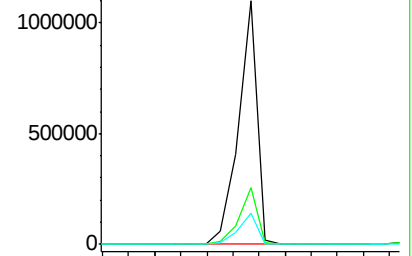
150 12.6 10.4 15.6



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: 40.95 ng

RT: 10.49 min Scan# 735

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

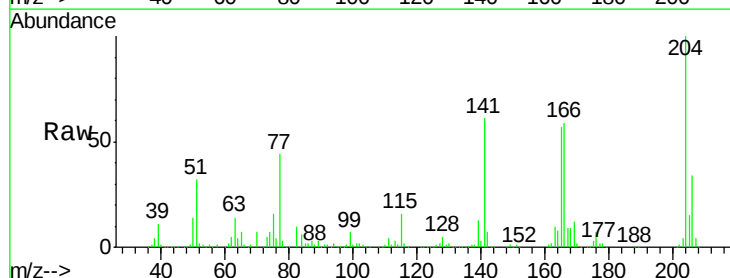
Tgt Ion:204 Resp: 420724

Ion Ratio Lower Upper

204 100

206 33.8 25.8 38.6

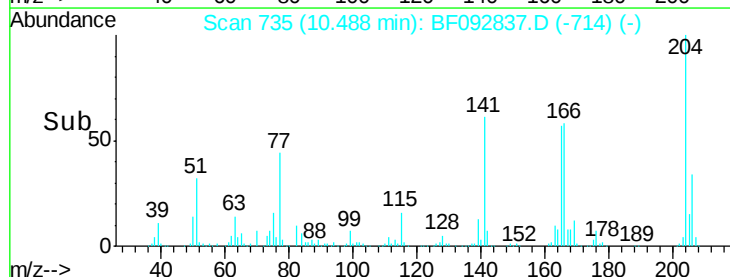
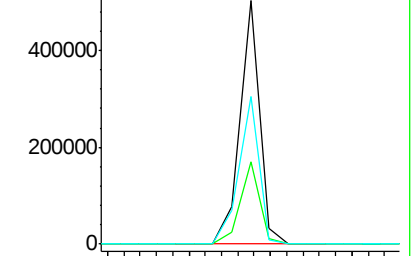
141 60.6 59.4 89.0

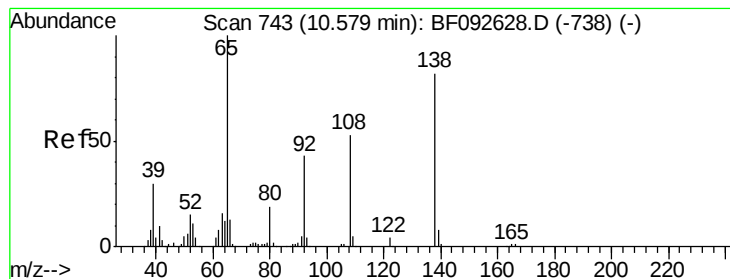


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#61

4-Nitroaniline

Concen: 36.71 ng

RT: 10.52 min Scan# 738

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

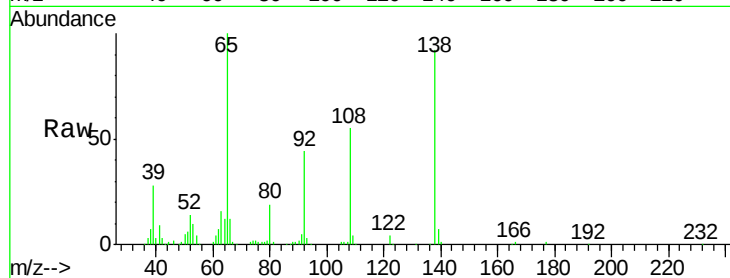
Tgt Ion:138 Resp: 222364

Ion Ratio Lower Upper

138 100

92 48.2 31.7 71.7

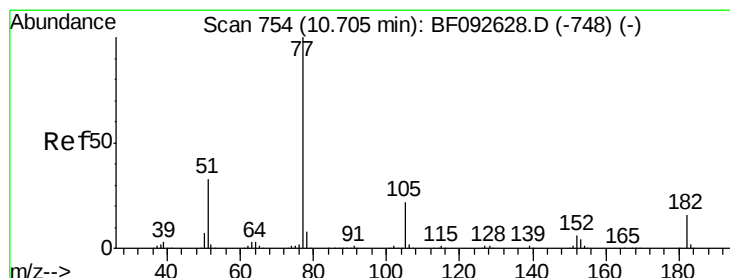
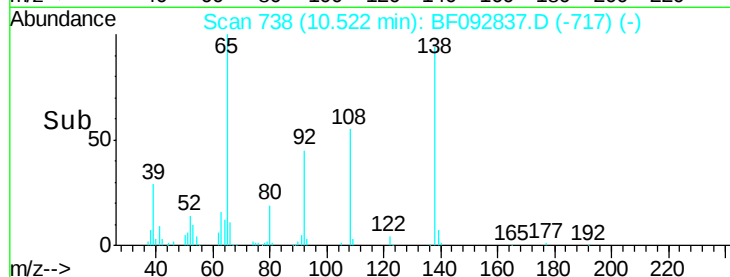
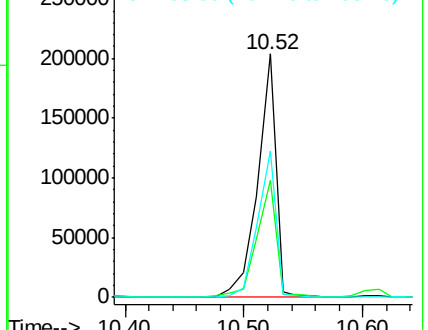
108 59.8 52.6 92.6



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 41.07 ng

RT: 10.65 min Scan# 749

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Tgt Ion: 77 Resp: 956782

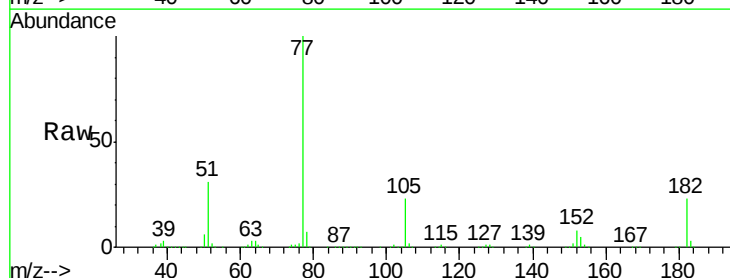
Ion Ratio Lower Upper

77 100

182 23.3 0.0 39.3

105 23.4 2.3 42.3

51 30.6 8.9 48.9

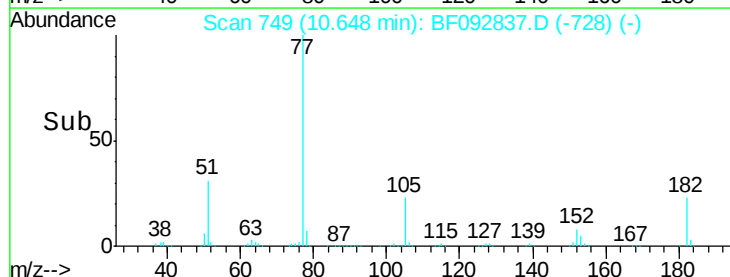
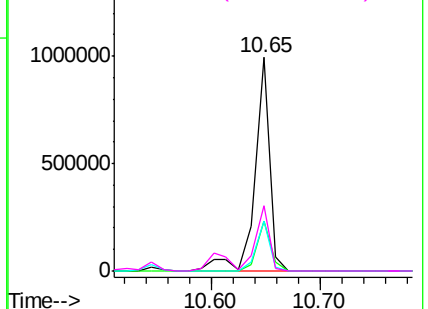


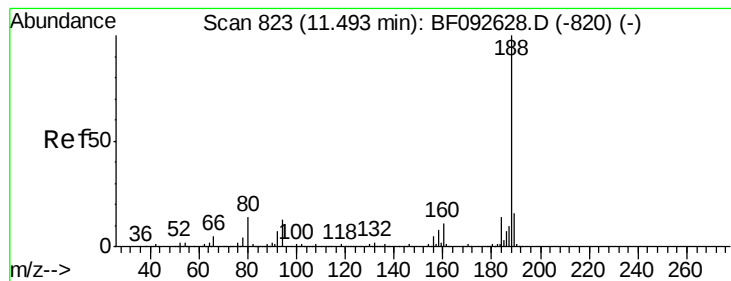
Abundance Ion 77.00 (76.70 to 77.70): BF0

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: 20.00 ng

RT: 11.44 min Scan# 818

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

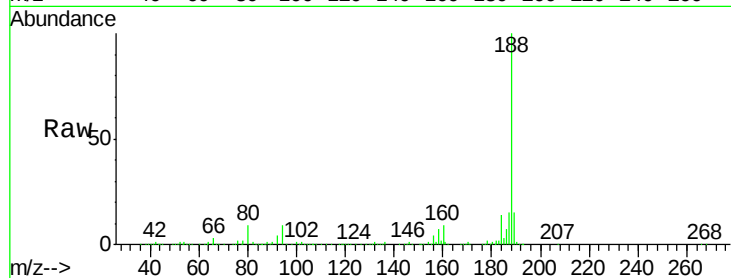
Tgt Ion:188 Resp: 442437

Ion Ratio Lower Upper

188 100

94 8.6 10.0 15.0#

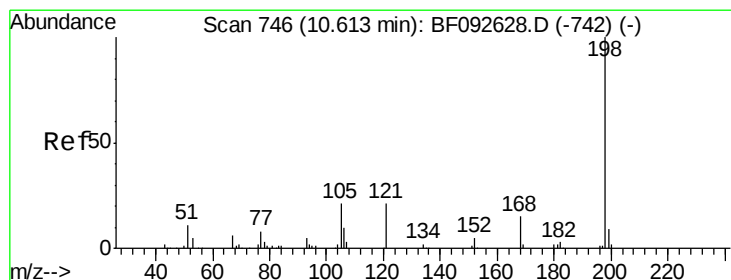
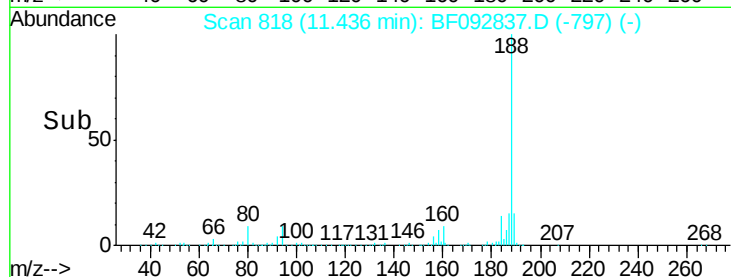
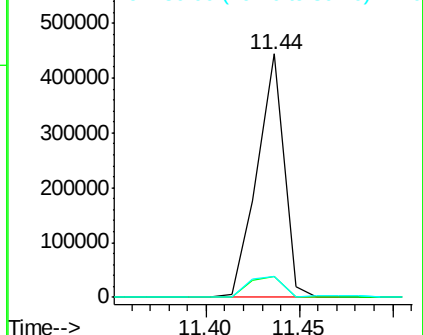
80 8.6 11.2 16.8#



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



#64

4,6-Dinitro-2-methylphenol

Concen: 26.40 ng

RT: 10.54 min Scan# 740

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

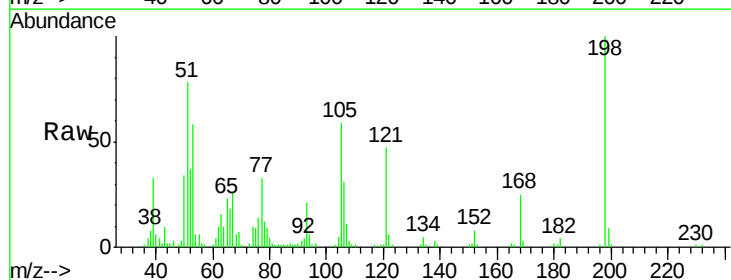
Tgt Ion:198 Resp: 67674

Ion Ratio Lower Upper

198 100

51 78.4 6.7 46.7#

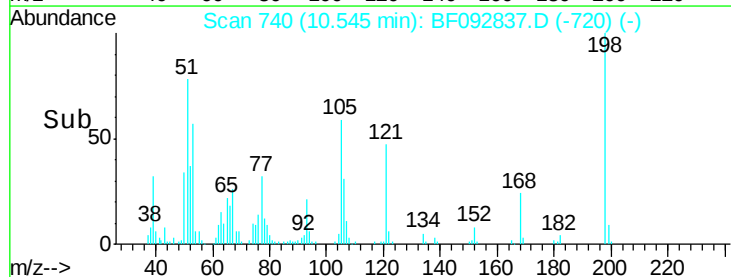
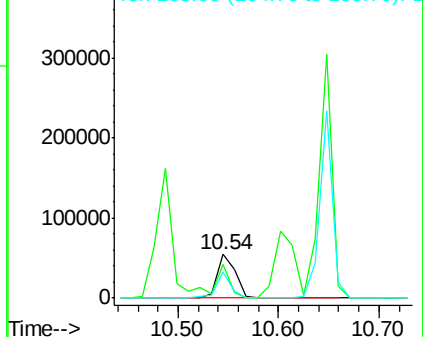
105 58.8 16.6 56.6#

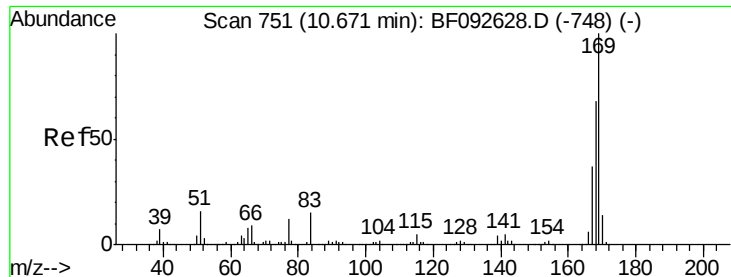


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 54.53 ng

RT: 10.61 min Scan# 746

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

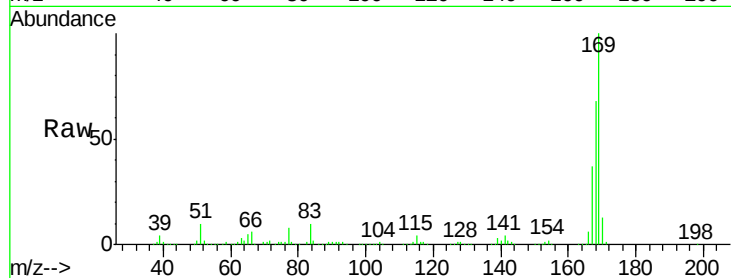
Tgt Ion:169 Resp: 770683

Ion Ratio Lower Upper

169 100

168 67.5 54.2 81.2

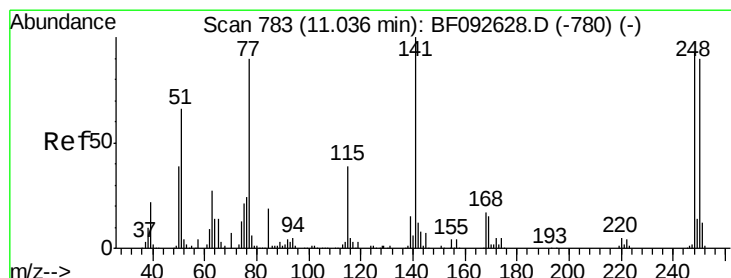
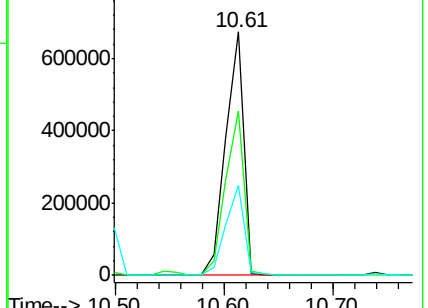
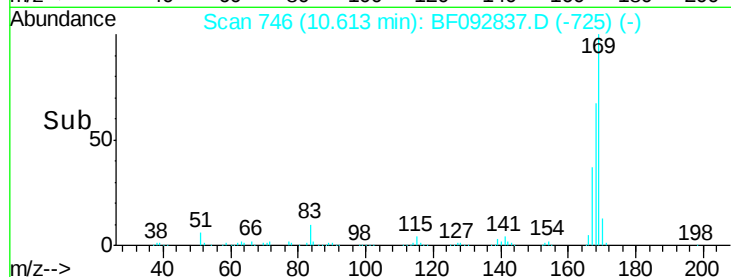
167 36.8 30.2 45.4



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: 51.35 ng

RT: 10.98 min Scan# 778

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

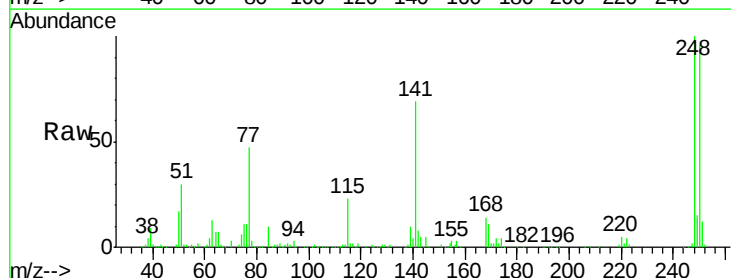
Tgt Ion:248 Resp: 237339

Ion Ratio Lower Upper

248 100

250 96.1 76.9 115.3

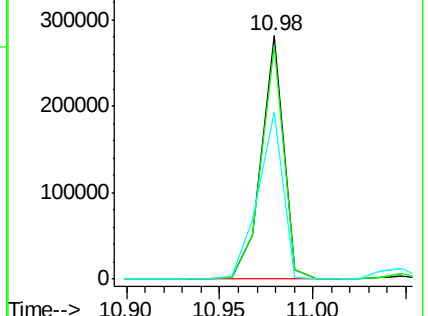
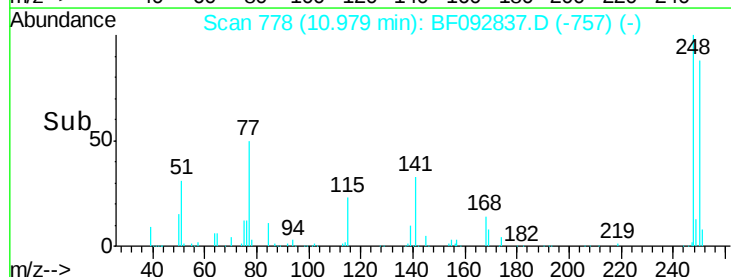
141 68.6 68.2 102.4



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

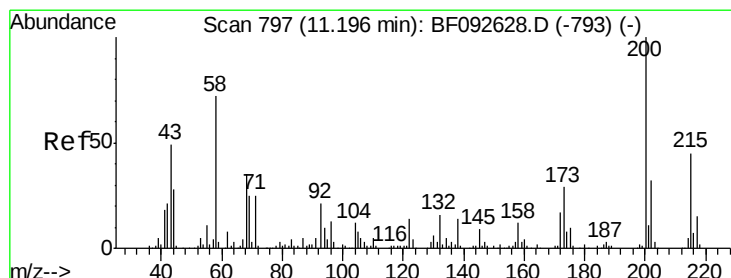
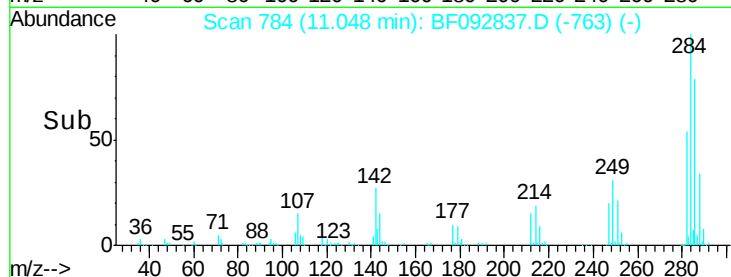
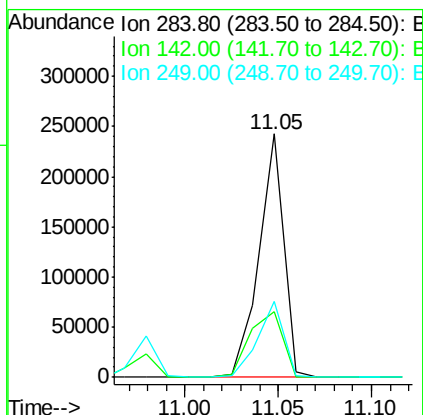
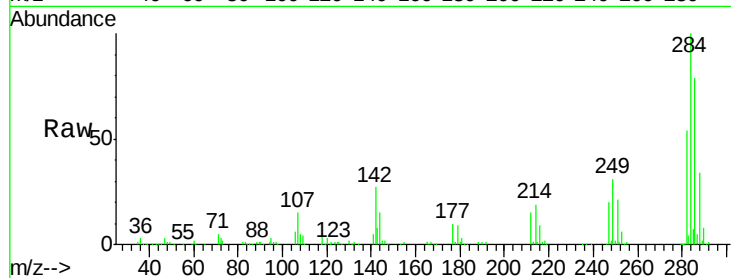




#67  
Hexachlorobenzene  
Concen: 48.48 ng  
RT: 11.05 min Scan# 784  
Delta R.T. -0.06 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

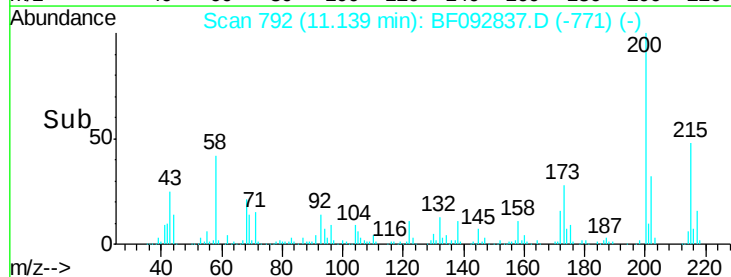
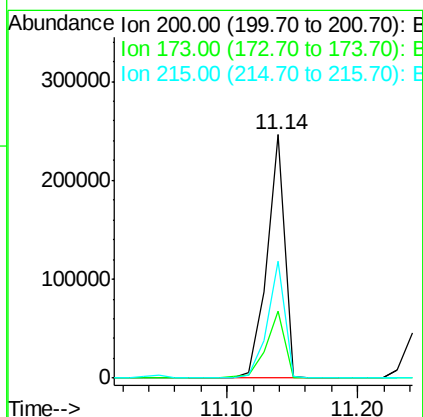
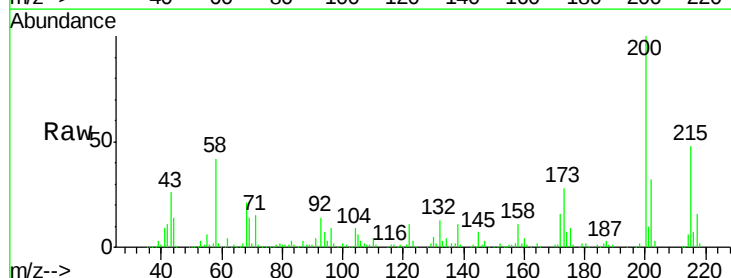
Instrument :  
BNA\_F  
ClientSampleId :  
ROLL-OFF-15-40-COMPMSD

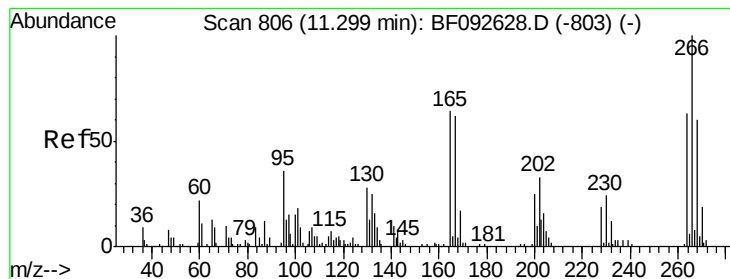
Tgt Ion: 284 Resp: 221462  
Ion Ratio Lower Upper  
284 100  
142 26.9 22.6 33.8  
249 31.1 25.4 38.0



#68  
Atrazine  
Concen: 51.63 ng  
RT: 11.14 min Scan# 792  
Delta R.T. -0.06 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

Tgt Ion: 200 Resp: 234165  
Ion Ratio Lower Upper  
200 100  
173 27.6 9.6 49.6  
215 47.8 25.7 65.7





#69

Pentachlorophenol

Concen: 88.28 ng

RT: 11.24 min Scan# 801

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

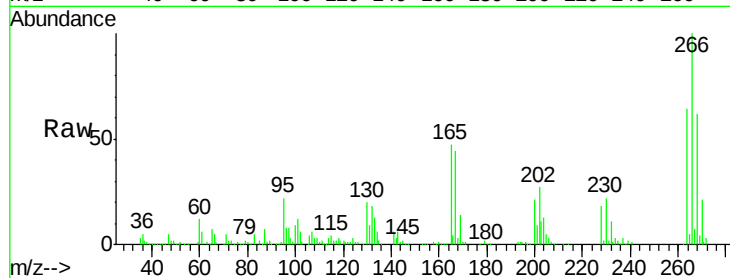
Tgt Ion:266 Resp: 210089

Ion Ratio Lower Upper

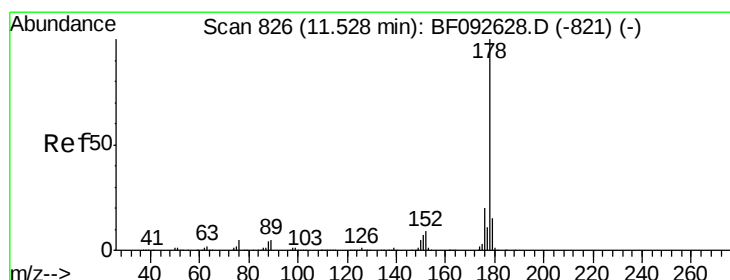
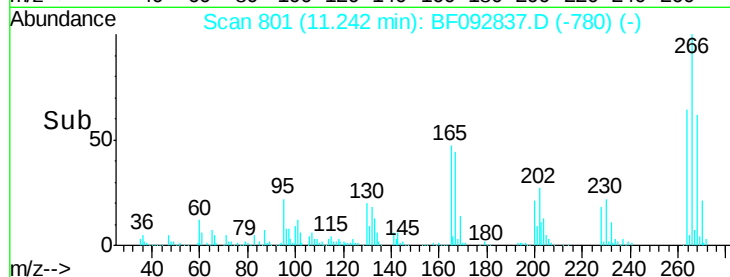
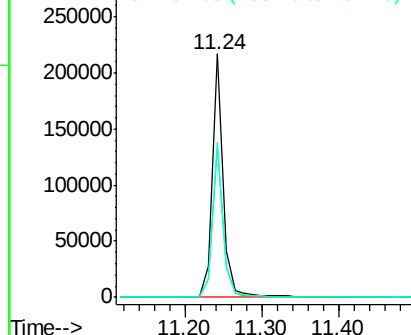
266 100

268 61.9 53.3 79.9

264 64.0 50.3 75.5



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



#70

Phenanthrene

Concen: 43.24 ng

RT: 11.46 min Scan# 820

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

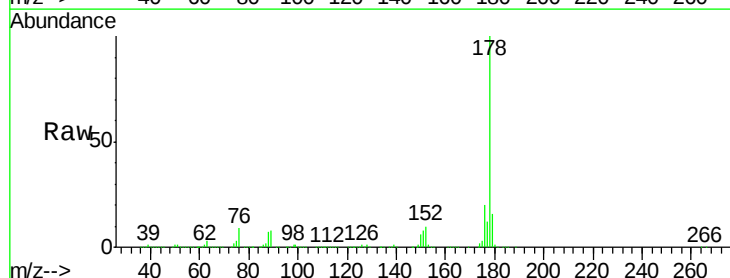
Tgt Ion:178 Resp: 1095964

Ion Ratio Lower Upper

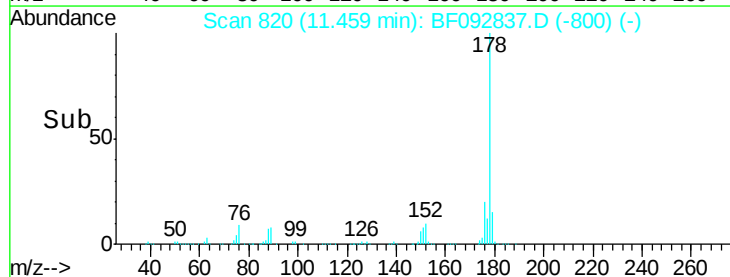
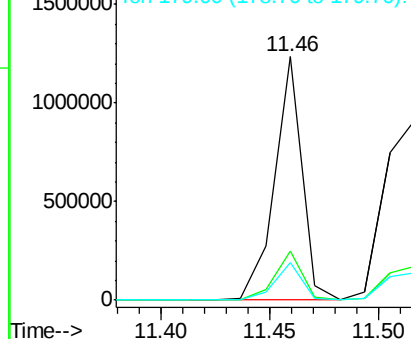
178 100

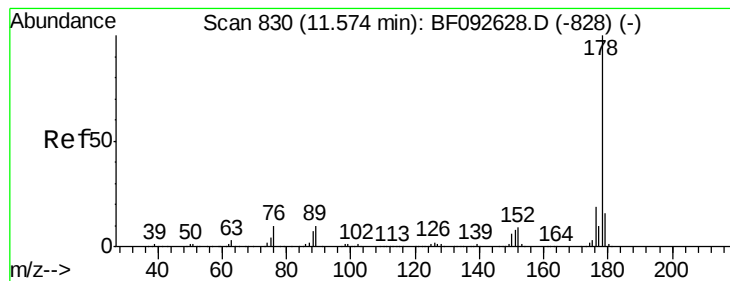
176 20.0 16.6 25.0

179 15.5 12.8 19.2



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





#71

Anthracene

Concen: 46.24 ng

RT: 11.52 min Scan# 825

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

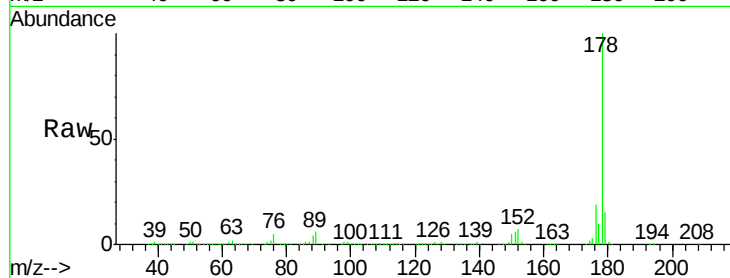
Tgt Ion:178 Resp: 1176928

Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

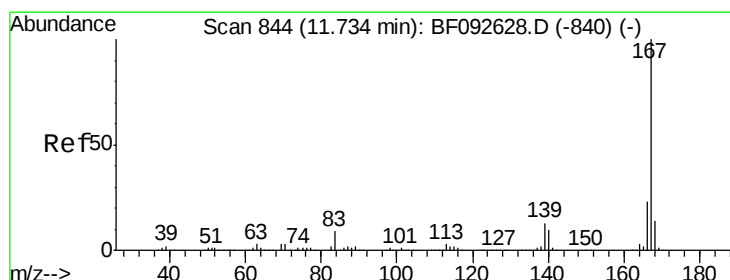
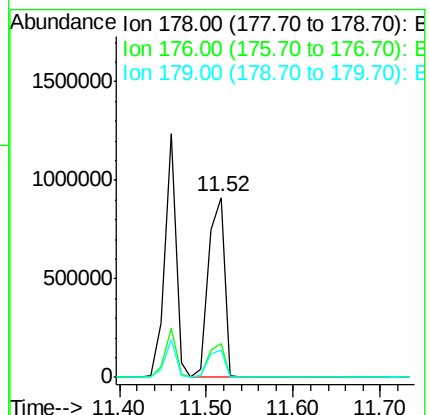
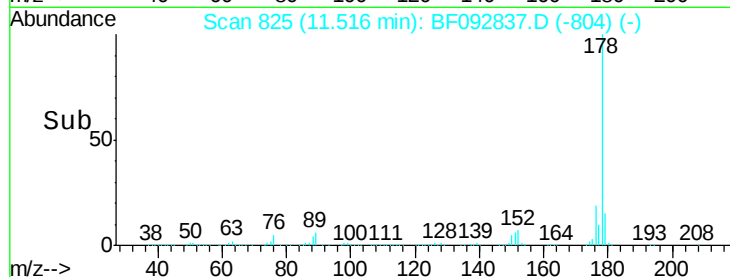
179 15.2 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 37.82 ng

RT: 11.66 min Scan# 838

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

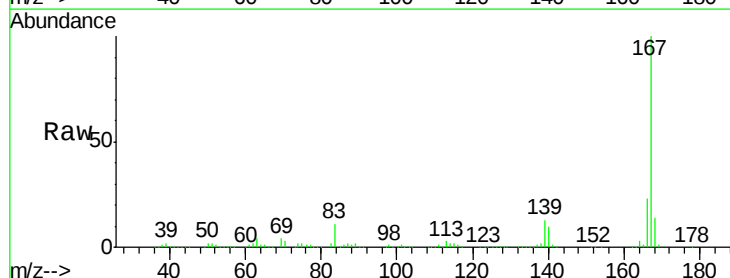
Tgt Ion:167 Resp: 920267

Ion Ratio Lower Upper

167 100

166 22.6 18.2 27.2

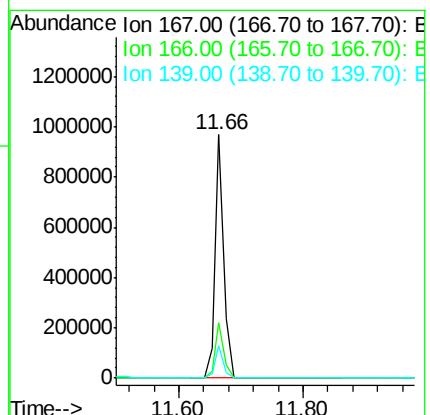
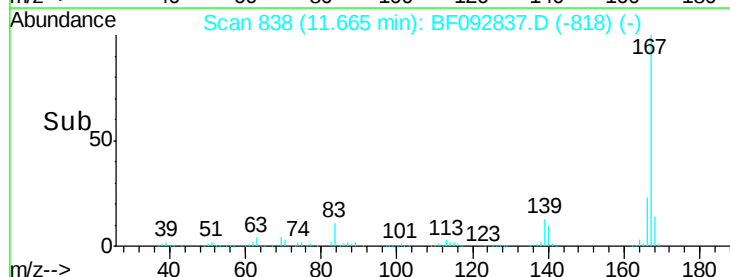
139 13.4 11.4 17.2

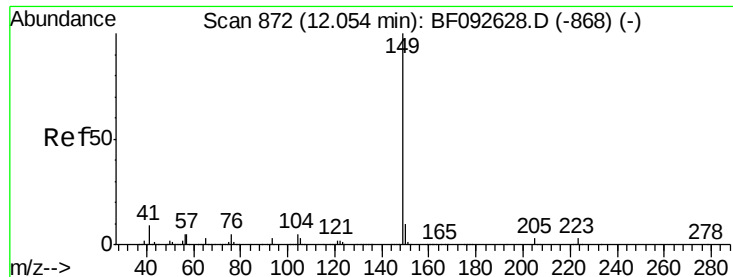


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 54.66 ng

RT: 12.00 min Scan# 867

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

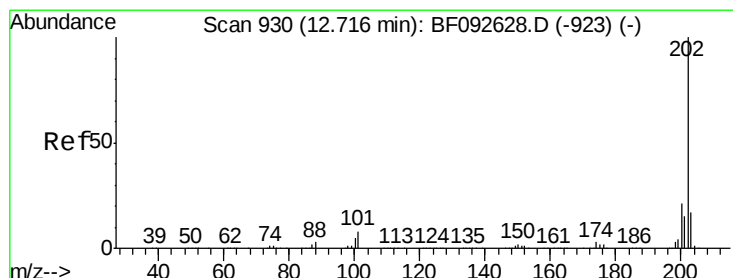
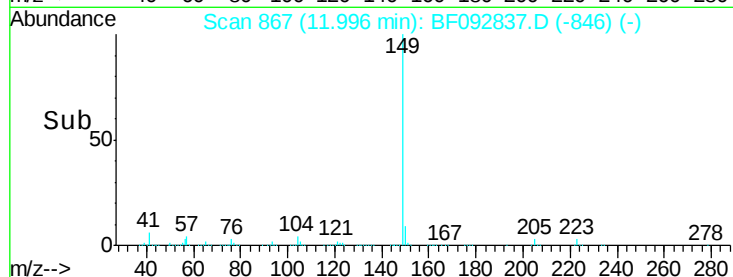
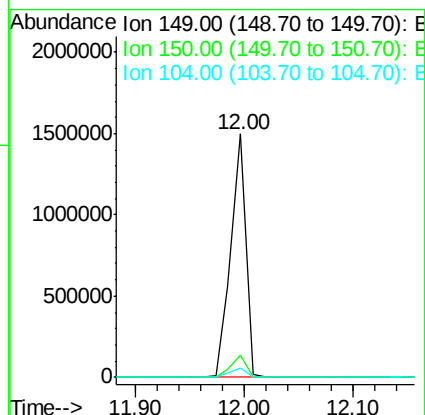
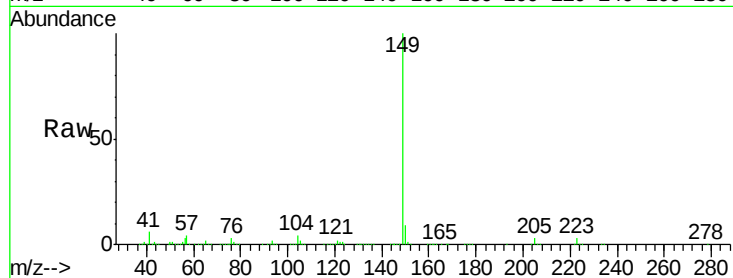
Tgt Ion:149 Resp: 1438510

Ion Ratio Lower Upper

149 100

150 9.2 8.1 12.1

104 3.8 4.6 7.0#



#74

Fluoranthene

Concen: 39.66 ng

RT: 12.65 min Scan# 924

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

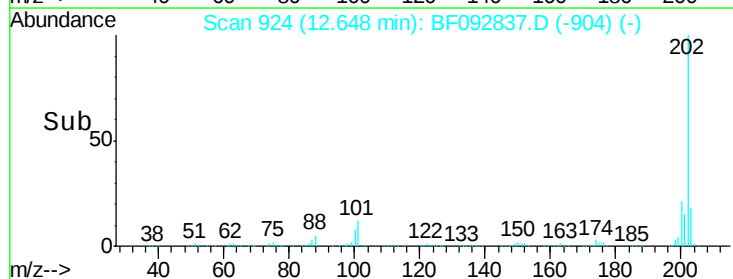
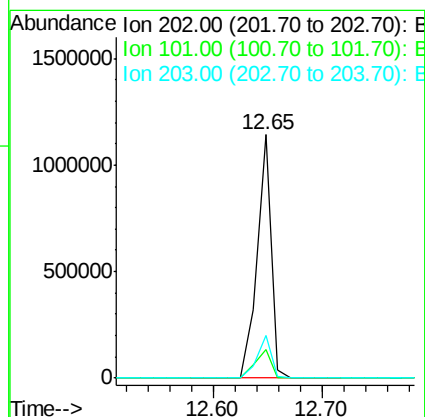
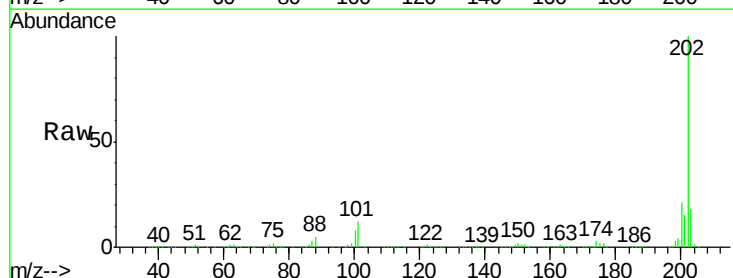
Tgt Ion:202 Resp: 1037080

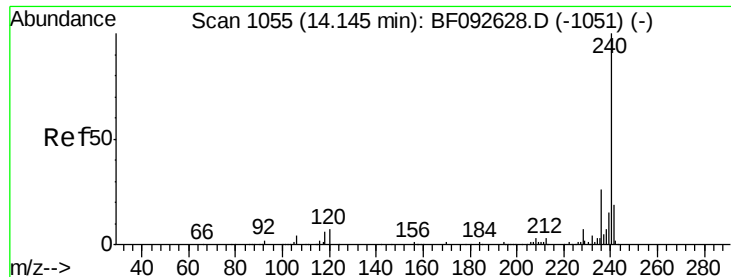
Ion Ratio Lower Upper

202 100

101 11.5 0.0 34.6

203 17.6 0.0 38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

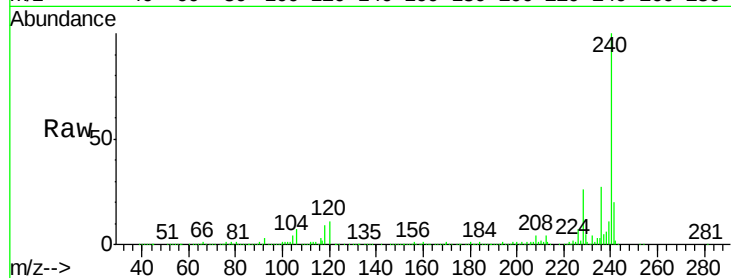
Tgt Ion:240 Resp: 339482

Ion Ratio Lower Upper

240 100

120 10.5 12.9 19.3#

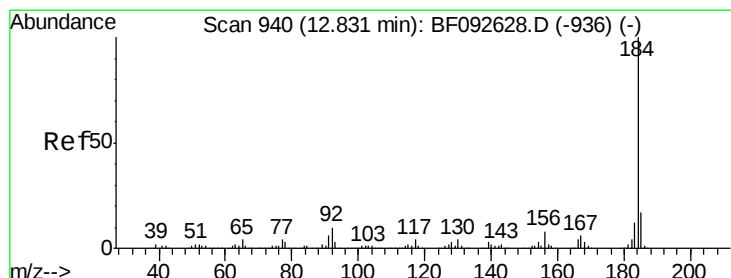
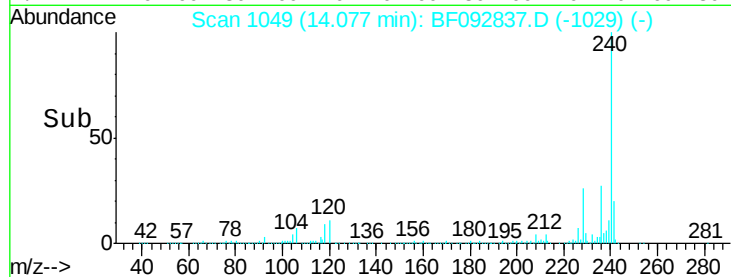
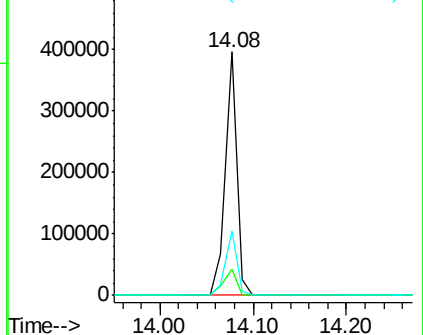
236 26.5 20.9 31.3



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: 7.42 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.07 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

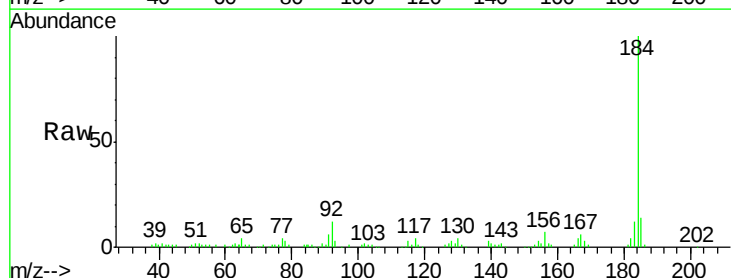
Tgt Ion:184 Resp: 107288

Ion Ratio Lower Upper

184 100

185 14.4 13.4 20.0

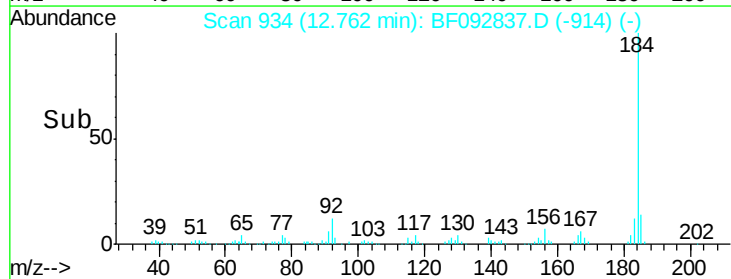
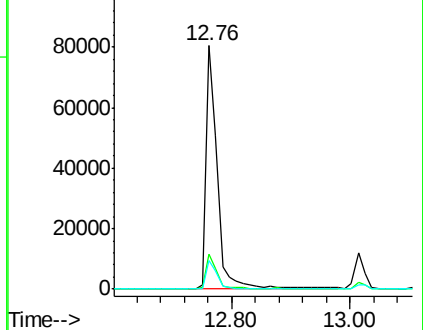
183 11.9 9.2 13.8

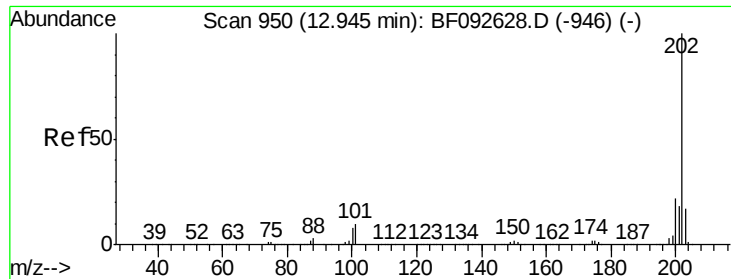


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

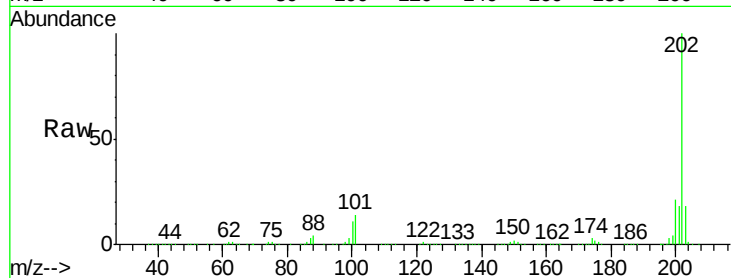




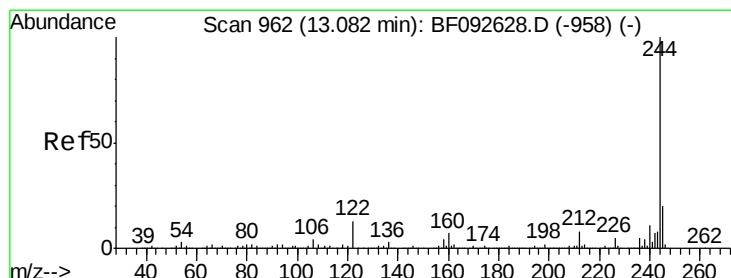
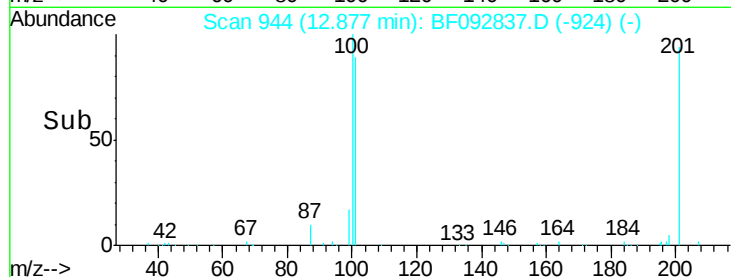
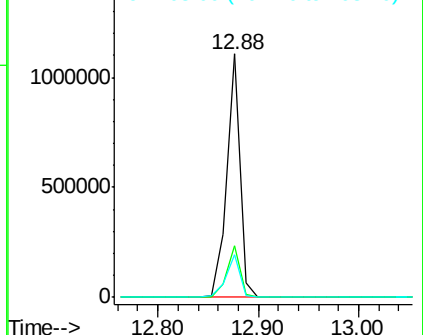
#77  
 Pyrene  
 Concen: 39.79 ng  
 RT: 12.88 min Scan# 944  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Tgt Ion: 202 Resp: 1010795  
 Ion Ratio Lower Upper  
 202 100  
 200 21.4 17.7 26.5  
 203 17.7 14.7 22.1

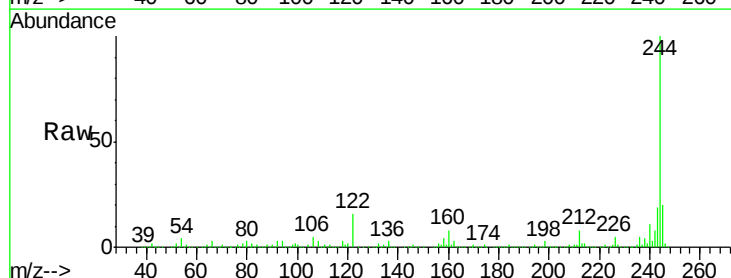


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

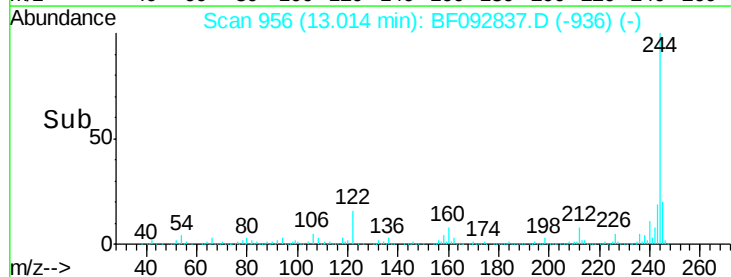
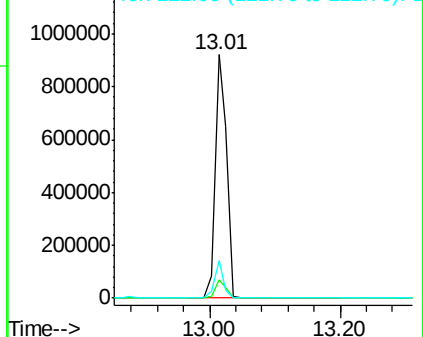


#78  
 Terphenyl-d14  
 Concen: 79.34 ng  
 RT: 13.01 min Scan# 956  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion: 244 Resp: 1146259  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.2 9.2  
 122 15.5 11.4 17.2



Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 50.19 ng

RT: 13.49 min Scan# 998

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

Instrument :

BNA\_F

ClientSampleId :

ROLL-OFF-15-40-COMPMSD

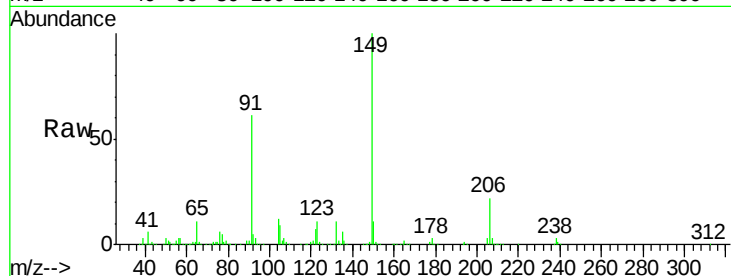
Tgt Ion:149 Resp: 517823

Ion Ratio Lower Upper

149 100

91 60.8 63.9 95.9#

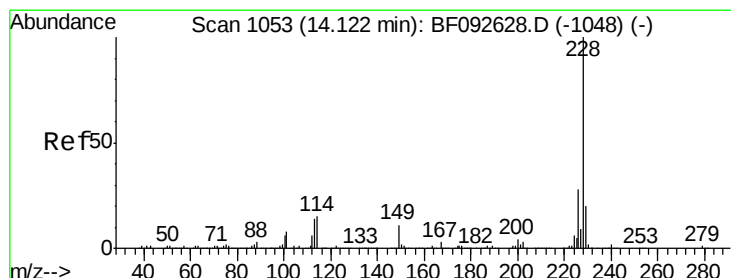
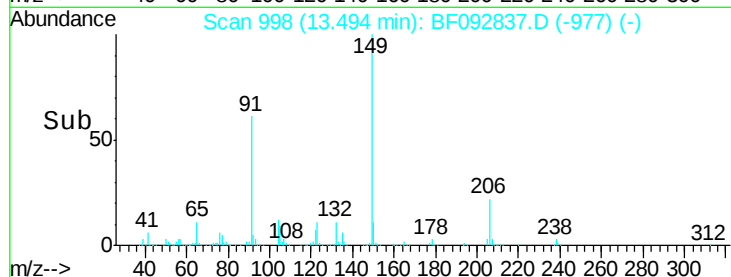
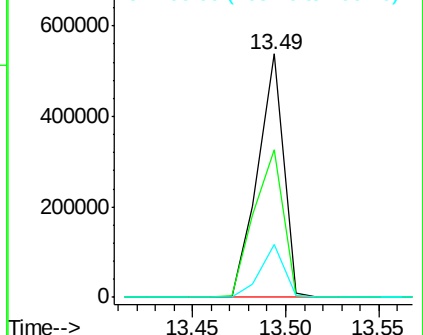
206 21.6 14.6 21.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 43.11 ng

RT: 14.07 min Scan# 1048

Delta R.T. -0.06 min

Lab File: BF092837.D

Acq: 7 Feb 2017 19:23

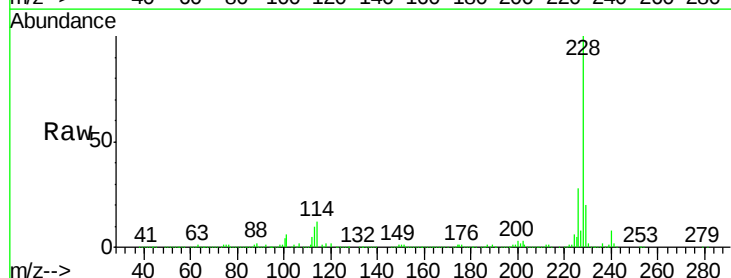
Tgt Ion:228 Resp: 895116

Ion Ratio Lower Upper

228 100

226 28.0 22.4 33.6

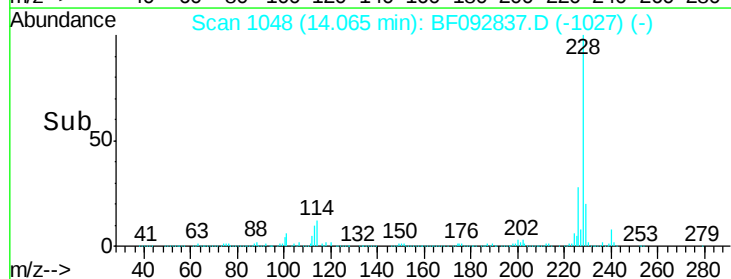
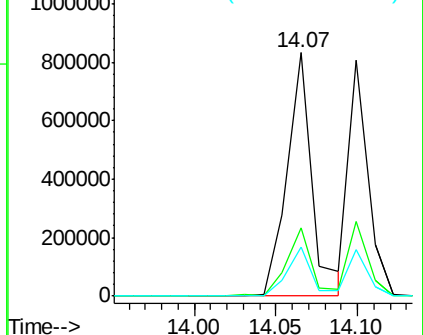
229 20.2 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

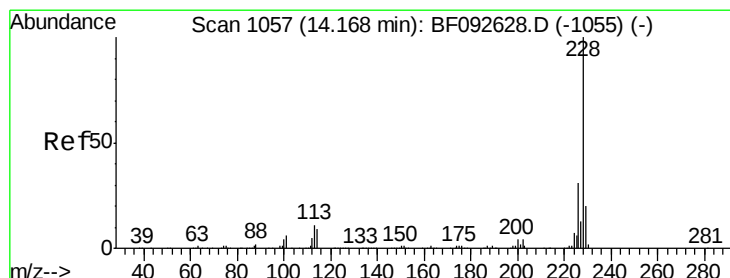
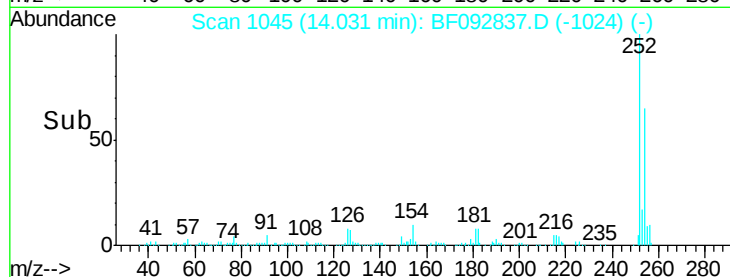
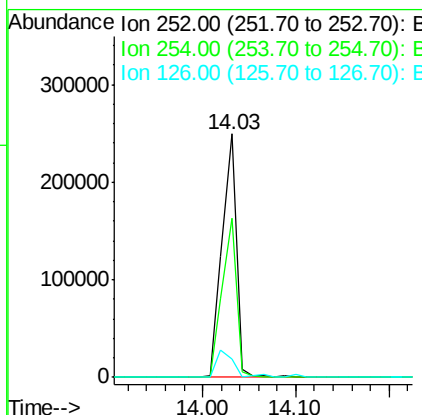
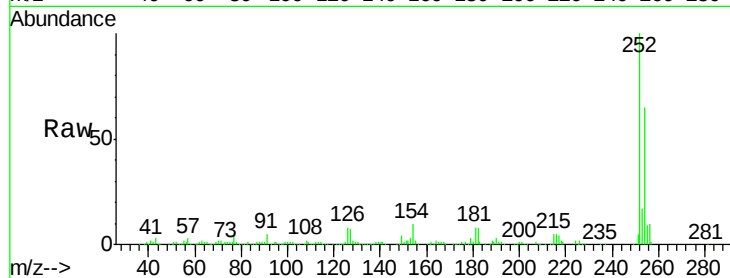




#81  
 3,3'-Dichlorobenzidine  
 Concen: 36.29 ng  
 RT: 14.03 min Scan# 1045  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

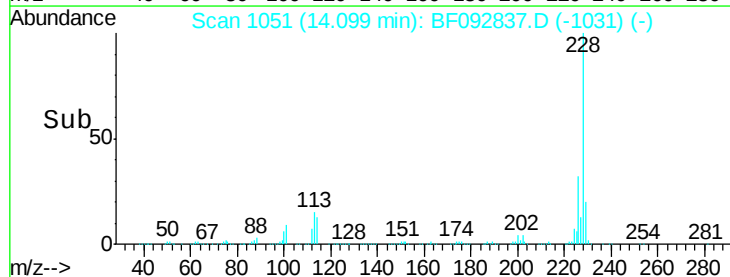
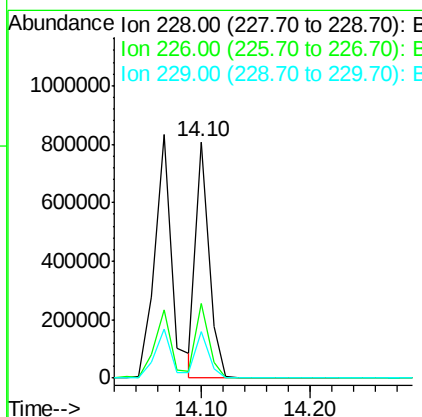
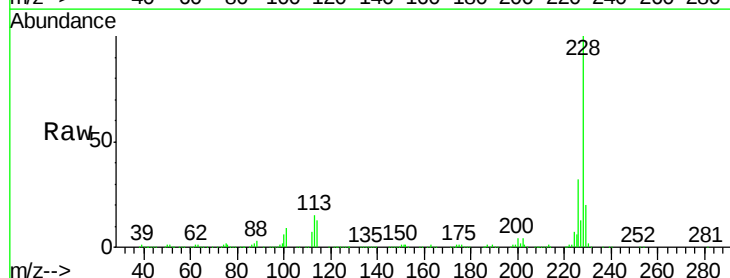
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

Tgt Ion:252 Resp: 268612  
 Ion Ratio Lower Upper  
 252 100  
 254 65.4 52.3 78.5  
 126 7.6 13.6 20.4#



#82  
 Chrysene  
 Concen: 35.29 ng  
 RT: 14.10 min Scan# 1051  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:228 Resp: 686018  
 Ion Ratio Lower Upper  
 228 100  
 226 31.5 25.4 38.0  
 229 19.9 16.2 24.2

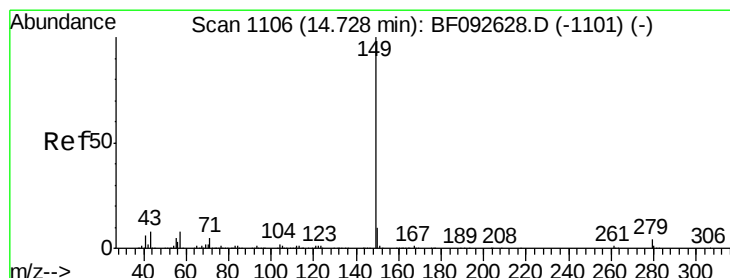
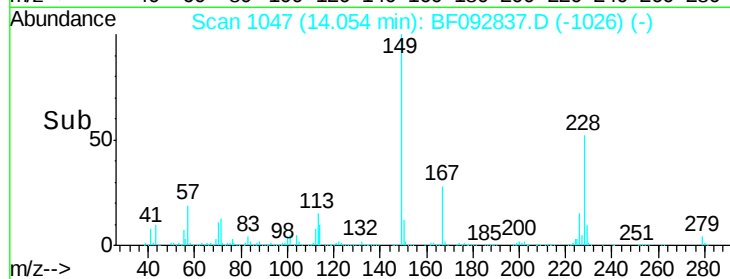
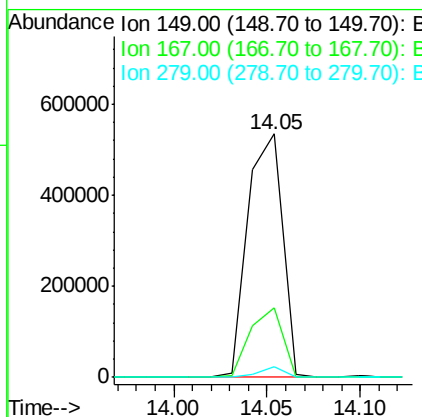
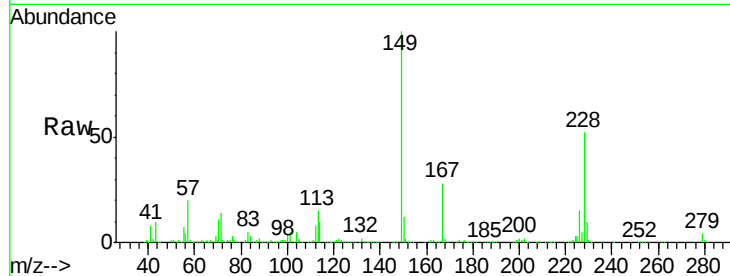




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 49.21 ng  
 RT: 14.05 min Scan# 1047  
 Delta R.T. -0.06 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

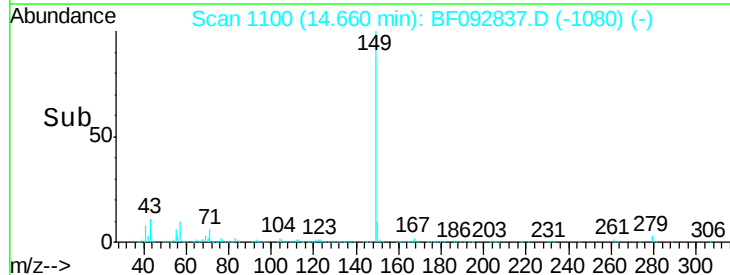
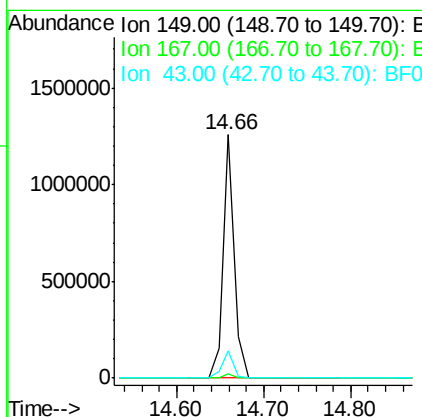
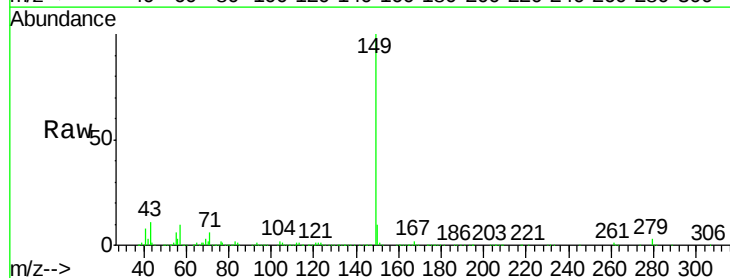
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

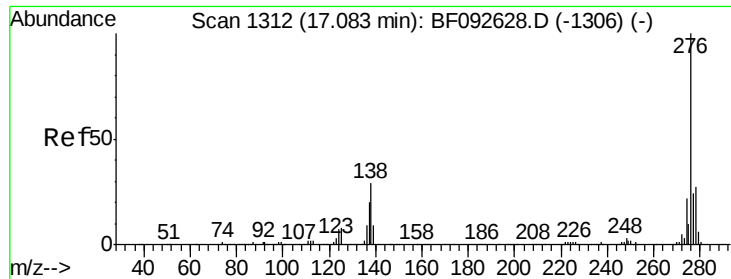
Tgt Ion:149 Resp: 694296  
 Ion Ratio Lower Upper  
 149 100  
 167 28.4 20.2 30.4  
 279 4.5 1.8 2.8#



#84  
 Di-n-octyl phthalate  
 Concen: 48.97 ng  
 RT: 14.66 min Scan# 1100  
 Delta R.T. -0.07 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion:149 Resp: 1125212  
 Ion Ratio Lower Upper  
 149 100  
 167 1.7 1.3 1.9  
 43 11.4 8.9 13.3

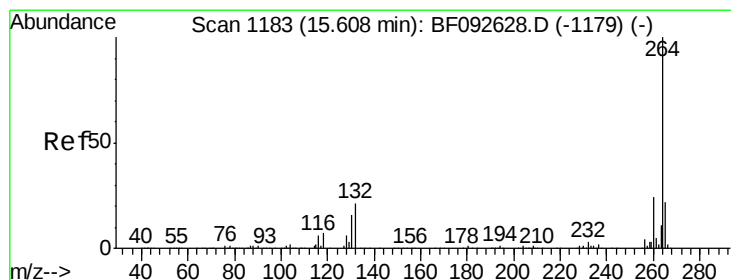
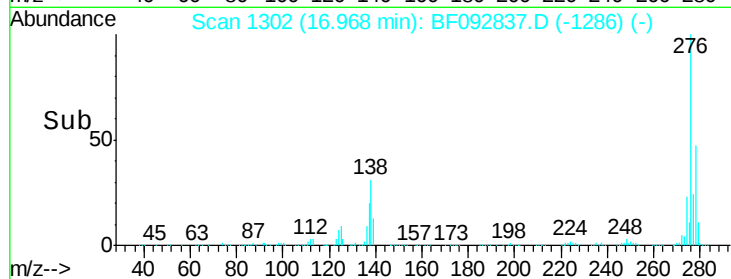
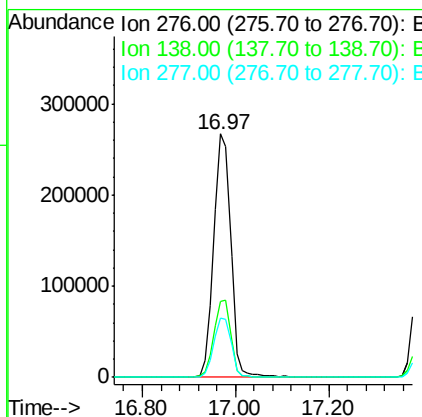
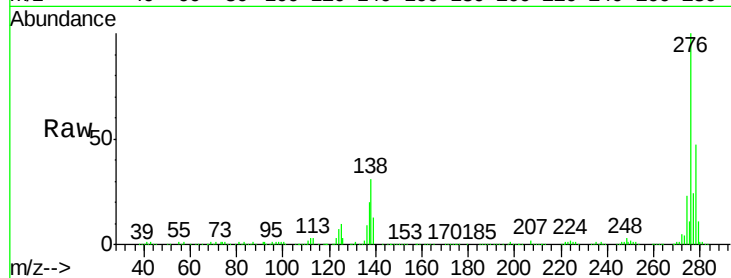




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 45.27 ng  
 RT: 16.97 min Scan# 1302  
 Delta R.T. -0.11 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

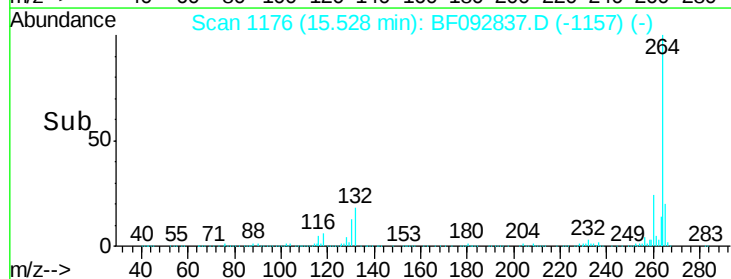
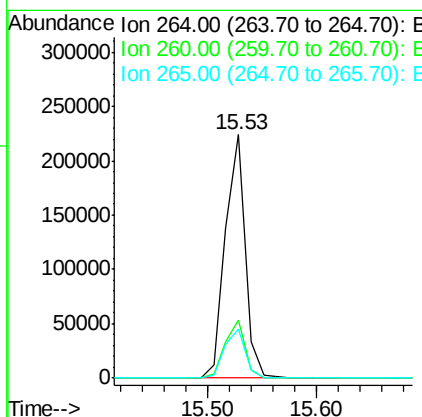
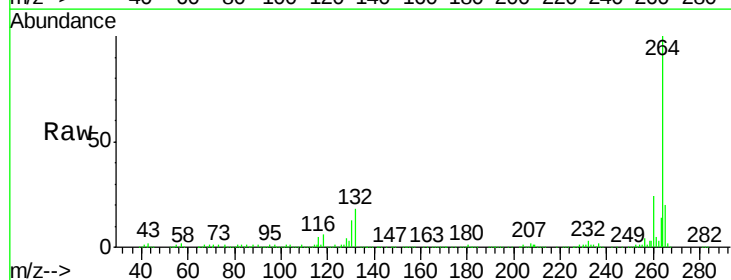
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

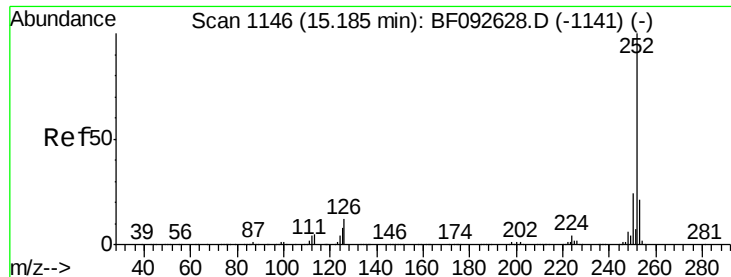
Tgt Ion: 276 Resp: 681710  
 Ion Ratio Lower Upper  
 276 100  
 138 31.8 21.8 32.6  
 277 24.8 20.2 30.4



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.53 min Scan# 1176  
 Delta R.T. -0.08 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Tgt Ion: 264 Resp: 285476  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 19.2 28.8  
 265 20.3 17.4 26.0

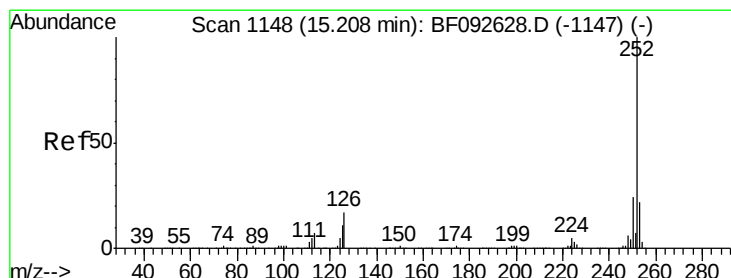
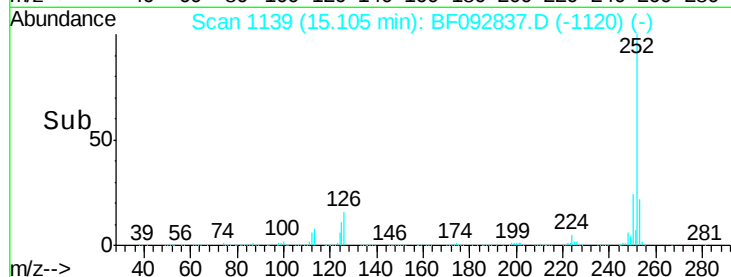
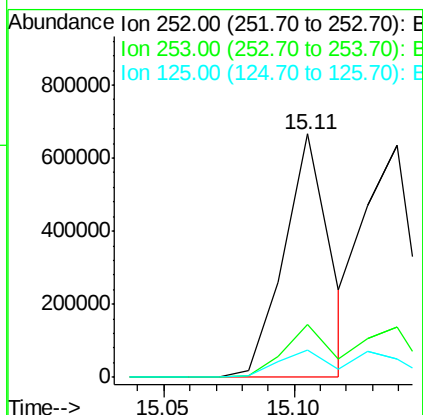
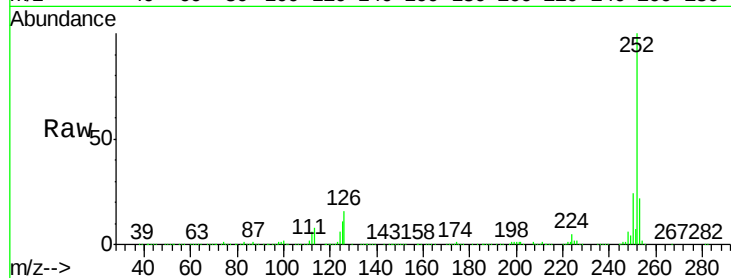




#87  
Benzo(b)fluoranthene  
Concen: 43.10 ng  
RT: 15.11 min Scan# 1139  
Delta R.T. -0.08 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

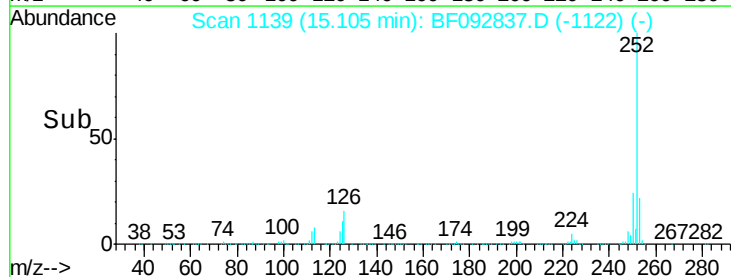
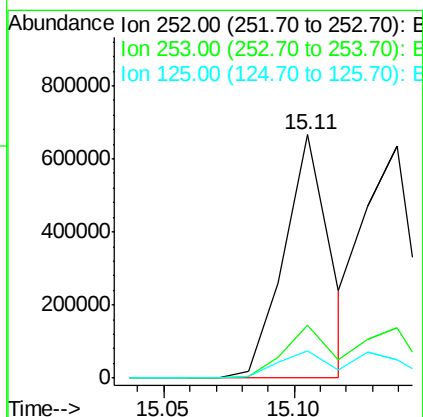
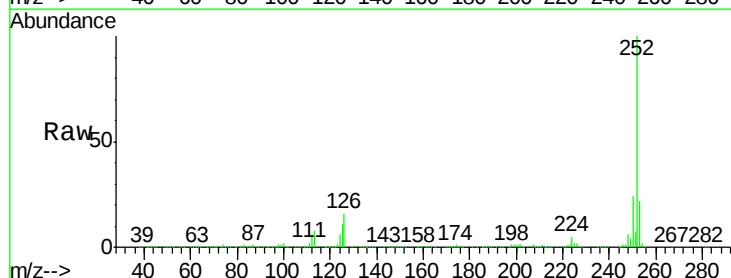
Instrument :  
BNA\_F  
ClientSampleId :  
ROLL-OFF-15-40-COMPMSD

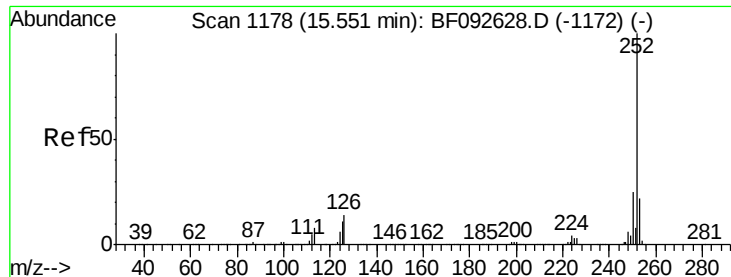
Tgt Ion:252 Resp: 809886  
Ion Ratio Lower Upper  
252 100  
253 22.0 18.2 27.4  
125 11.5 9.8 14.6



#88  
Benzo(k)fluoranthene  
Concen: 49.92 ng  
RT: 15.11 min Scan# 1139  
Delta R.T. -0.10 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

Tgt Ion:252 Resp: 809886  
Ion Ratio Lower Upper  
252 100  
253 22.0 18.5 27.7  
125 11.5 8.9 13.3

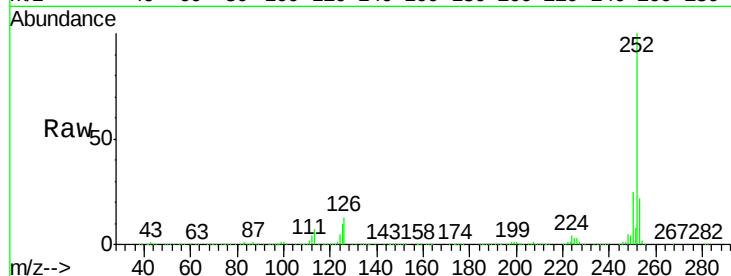




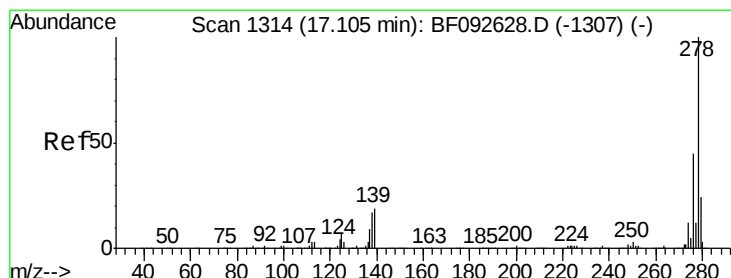
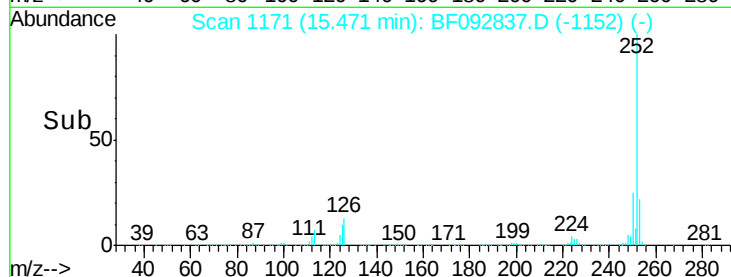
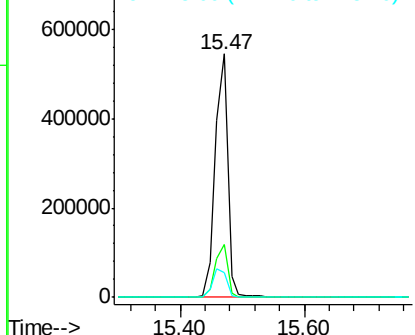
#89  
Benzo(a)pyrene  
Concen: 46.13 ng  
RT: 15.47 min Scan# 1171  
Delta R.T. -0.08 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

Instrument :  
BNA\_F  
ClientSampleId :  
ROLL-OFF-15-40-COMPMSD

Tgt Ion: 252 Resp: 749734  
Ion Ratio Lower Upper  
252 100  
253 21.9 18.2 27.2  
125 10.1 10.0 15.0

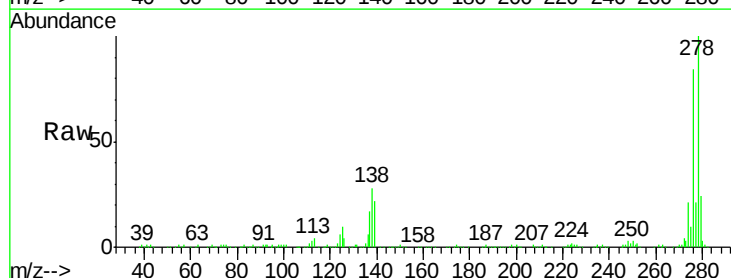


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

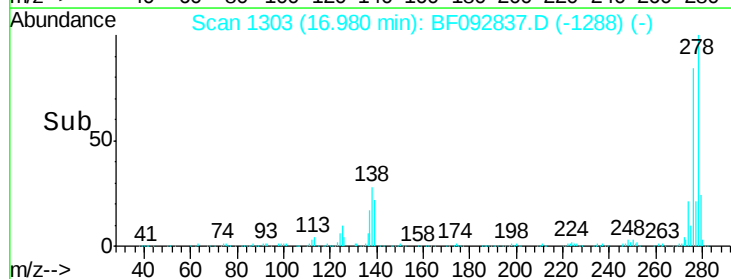
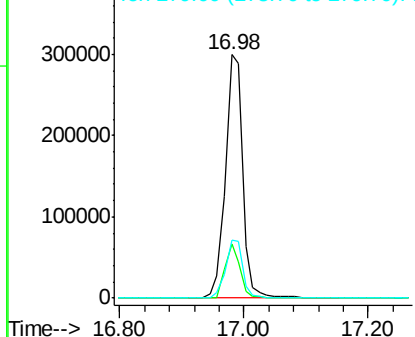


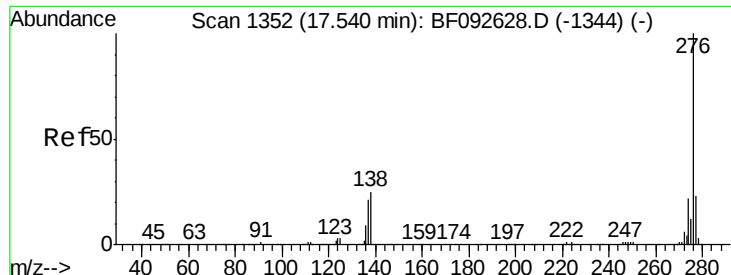
#90  
Dibenzo(a,h)anthracene  
Concen: 44.27 ng  
RT: 16.98 min Scan# 1303  
Delta R.T. -0.13 min  
Lab File: BF092837.D  
Acq: 7 Feb 2017 19:23

Tgt Ion: 278 Resp: 581525  
Ion Ratio Lower Upper  
278 100  
139 22.0 14.8 22.2  
279 23.9 19.8 29.6



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E

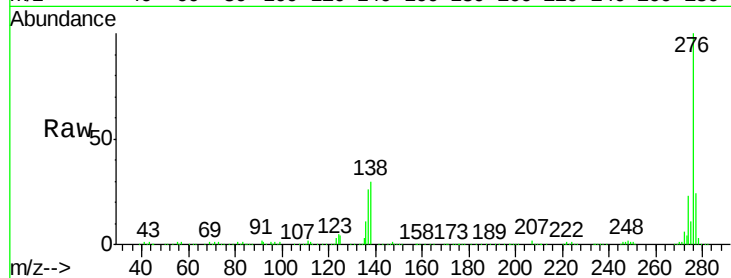




#91  
 Benzo(g,h,i)perylene  
 Concen: 41.60 ng  
 RT: 17.40 min Scan# 1340  
 Delta R.T. -0.14 min  
 Lab File: BF092837.D  
 Acq: 7 Feb 2017 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLL-OFF-15-40-COMPMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 19.2  | 28.8  |
| 138     | 29.7  | 16.0  | 24.0  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

