

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF081616\  
 Data File : BF089753.D  
 Acq On : 17 Aug 2016 9:59  
 Operator : UM/SJ  
 Sample : H4145-14  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 9536

Quant Time: Aug 17 10:45:19 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 16 19:45:04 2016  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |        |
|-------------------------------|--------|------|----------|--------|-------|----------|--------|
| -----                         |        |      |          |        |       |          |        |
| Internal Standards            |        |      |          |        |       |          |        |
| 1) 1,4-Dichlorobenzene-d4     | 6.696  | 152  | 647678   | 20.00  | ng    | 0.00     |        |
| 21) Naphthalene-d8            | 7.987  | 136  | 2664396  | 20.00  | ng    | 0.00     |        |
| 38) Acenaphthene-d10          | 9.736  | 164  | 1238848  | 20.00  | ng    | 0.00     |        |
| 63) Phenanthrene-d10          | 11.222 | 188  | 2399783  | 20.00  | ng    | 0.01     |        |
| 75) Chrysene-d12              | 13.919 | 240  | 1360216  | 20.00  | ng    | 0.02     |        |
| 86) Perylene-d12              | 15.428 | 264  | 1516027  | 20.00  | ng    | 0.02     |        |
| System Monitoring Compounds   |        |      |          |        |       |          |        |
| 5) 2-Fluorophenol             | 5.290  | 112  | 4254297  | 109.60 | ng    | 0.01     |        |
| 7) Phenol-d6                  | 6.341  | 99   | 5952407  | 120.56 | ng    | 0.01     |        |
| 23) Nitrobenzene-d5           | 7.267  | 82   | 3577928  | 82.00  | ng    | 0.00     |        |
| 41) 2,4,6-Tribromophenol      | 10.525 | 330  | 1292922  | 107.88 | ng    | 0.00     |        |
| 44) 2-Fluorobiphenyl          | 9.073  | 172  | 5665495  | 73.38  | ng    | 0.00     |        |
| 78) Terphenyl-d14             | 12.811 | 244  | 5047190  | 110.85 | ng    | 0.00     |        |
| Target Compounds              |        |      |          |        |       |          | Qvalue |
| 4) n-Nitrosodimethylamine     | 2.901  | 42   | 2517465  | 121.46 | ng    |          | 89     |
| 9) Benzaldehyde               | 6.467  | 77   | 103368   | 3.16   | ng    |          | 84     |
| 12) 1,3-Dichlorobenzene       | 6.719  | 146  | 1339199  | 27.14  | ng    |          | 96     |
| 13) 1,4-Dichlorobenzene       | 6.719  | 146  | 1339199  | 26.79  | ng    |          | 97     |
| 14) 1,2-Dichlorobenzene       | 6.879  | 146  | 2546758  | 53.42  | ng    |          | 98     |
| 18) Hexachloroethane          | 7.222  | 117  | 967485   | 52.80  | ng    | #        | 88     |
| 19) n-Nitroso-di-n-propyla... | 7.267  | 70   | 469888   | 14.53  | ng    | #        | 76     |
| 24) Nitrobenzene              | 7.290  | 77   | 2539341  | 51.73  | ng    | #        | 87     |
| 25) Isophorone                | 7.530  | 82   | 9189052  | 105.25 | ng    | #        | 89     |
| 26) 2-Nitrophenol             | 7.542  | 139  | 220169   | 9.53   | ng    | #        | 76     |
| 28) bis(2-Chloroethoxy)met... | 7.747  | 93   | 2632526  | 49.62  | ng    |          | 97     |
| 31) Naphthalene               | 8.010  | 128  | 7552361  | 63.15  | ng    | #        | 90     |
| 33) 4-Chloroaniline           | 8.010  | 127  | 1233330  | 22.29  | ng    | #        | 35     |
| 34) Hexachlorobutadiene       | 8.136  | 225  | 1052724  | 51.22  | ng    |          | 99     |
| 37) 2-Methylnaphthalene       | 8.696  | 142  | 3692453  | 45.36  | ng    | #        | 96     |
| 40) Hexachlorocyclopentadiene | 8.867  | 237  | 2206376  | 124.31 | ng    |          | 98     |
| 46) 2-Chloronaphthalene       | 9.199  | 162  | 8535554  | 111.02 | ng    | #        | 88     |
| 49) Dimethylphthalate         | 9.473  | 163  | 7612578  | 84.92  | ng    |          | 96     |
| 50) 2,6-Dinitrotoluene        | 9.542  | 165  | 1532143  | 75.52  | ng    | #        | 58     |
| 54) Dibenzofuran              | 9.953  | 168  | 7502925  | 76.34  | ng    |          | 96     |
| 55) 4-Nitrophenol             | 9.953  | 139  | 3327603  | 183.37 | ng    | #        | 16     |
| 56) 2,4-Dinitrotoluene        | 9.930  | 165  | 1685545  | 64.63  | ng    | #        | 71     |
| 59) Diethylphthalate          | 10.182 | 149  | 7598166  | 83.60  | ng    | #        | 88     |
| 60) 4-Chlorophenyl-phenyle... | 10.296 | 204  | 4194628  | 107.59 | ng    |          | 97     |
| 62) Azobenzene                | 10.410 | 77   | 759031   | 8.84   | ng    | #        | 24     |
| 65) n-Nitrosodiphenylamine    | 10.410 | 169  | 5704517  | 75.75  | ng    |          | 93     |
| 66) 4-Bromophenyl-phenylether | 10.776 | 248  | 1957231  | 78.75  | ng    | #        | 70     |
| 67) Hexachlorobenzene         | 10.833 | 284  | 1286204  | 46.56  | ng    | #        | 75     |
| 70) Phenanthrene              | 11.256 | 178  | 10749921 | 91.14  | ng    | #        | 85     |
| 71) Anthracene                | 11.256 | 178  | 10749921 | 87.22  | ng    | #        | 86     |
| 73) Di-n-butylphthalate       | 11.805 | 149  | 9060081  | 63.79  | ng    | #        | 90     |
| 74) Fluoranthene              | 12.662 | 202  | 11811291 | 99.66  | ng    |          | 83     |
| 77) Pyrene                    | 12.662 | 202  | 11867572 | 133.32 | ng    | #        | 84     |

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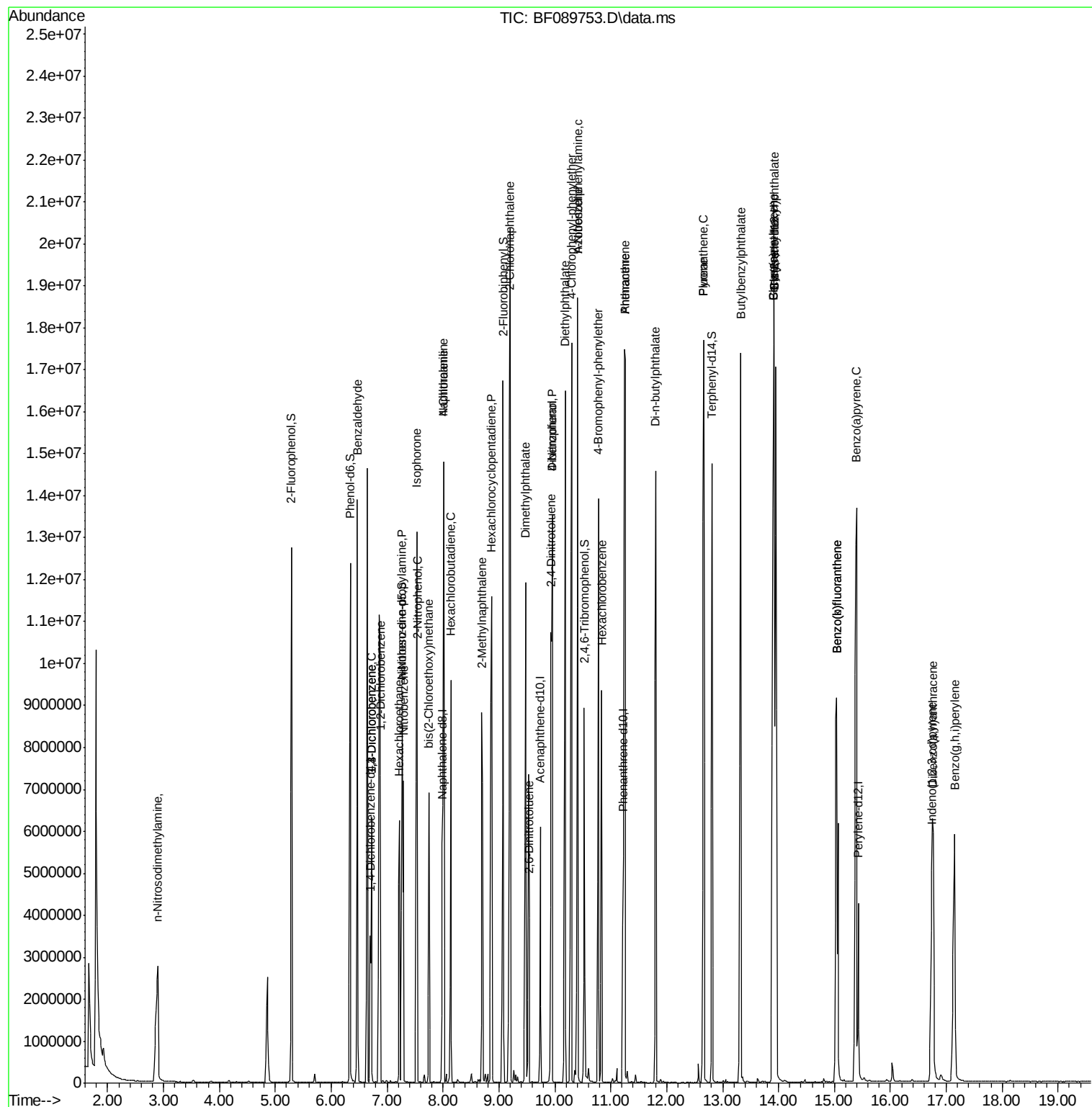
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 79) Butylbenzylphthalate      | 13.325 | 149  | 7356870  | 164.75 | ng    | 97       |
| 80) Benzo(a)anthracene        | 13.908 | 228  | 12311998 | 155.80 | ng    | 90       |
| 82) Chrysene                  | 13.908 | 228  | 12311998 | 173.10 | ng    | 94       |
| 83) Bis(2-ethylhexyl)phtha... | 13.919 | 149  | 3287683  | 55.63  | ng    | # 99     |
| 85) Indeno(1,2,3-cd)pyrene    | 16.743 | 276  | 4814471  | 79.45  | ng    | 99       |
| 87) Benzo(b)fluoranthene      | 15.040 | 252  | 8486849  | 88.35  | ng    | # 93     |
| 88) Benzo(k)fluoranthene      | 15.040 | 252  | 8491465  | 107.40 | ng    | # 96     |
| 89) Benzo(a)pyrene            | 15.394 | 252  | 10627376 | 134.00 | ng    | 95       |
| 90) Dibenzo(a,h)anthracene    | 16.765 | 278  | 3201298  | 51.26  | ng    | 98       |
| 91) Benzo(a,h,i)perylene      | 17.154 | 276  | 5924249  | 93.21  | ng    | 97       |

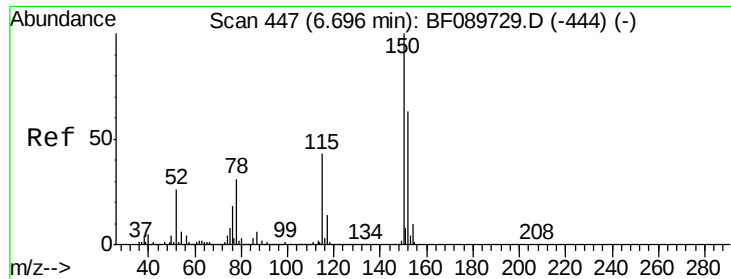
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.696 min Scan# 44

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

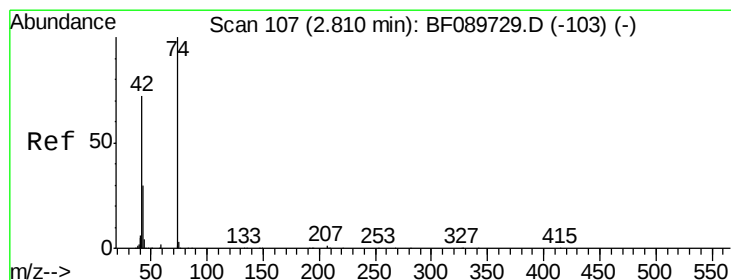
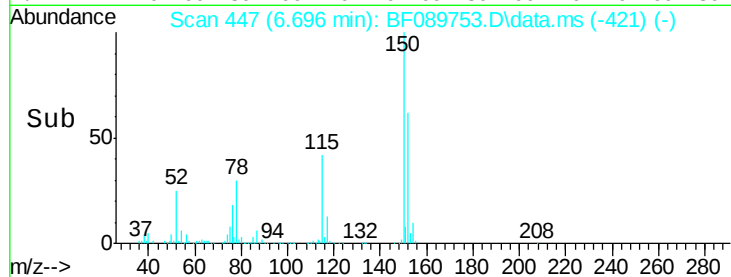
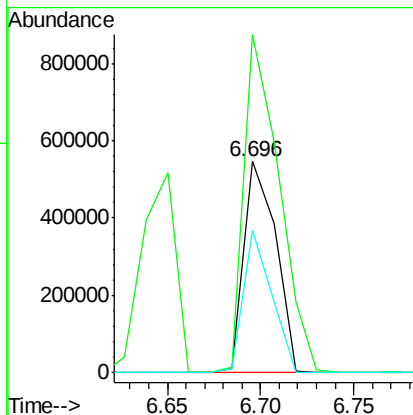
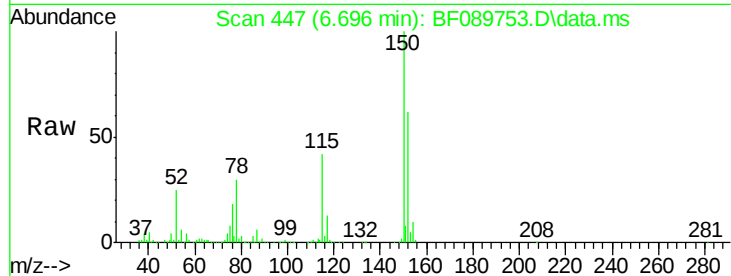
Tot Ion:152 Resp: 647678

Ion Ratio Lower Upper

152 100

150 160.1 125.3 187.9

115 67.3 40.9 61.3#



#4

n-Nitrosodimethylamine

Concen: 121.46 ng

RT: 2.901 min Scan# 115

Delta R.T. 0.091 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

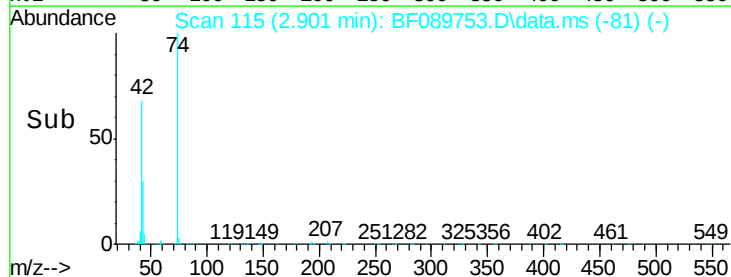
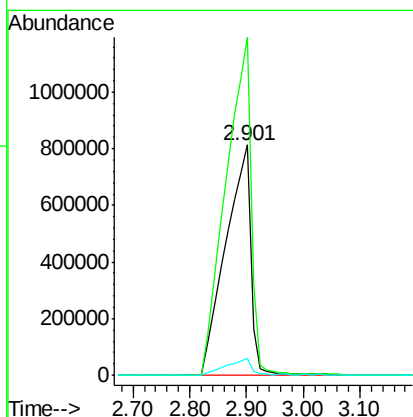
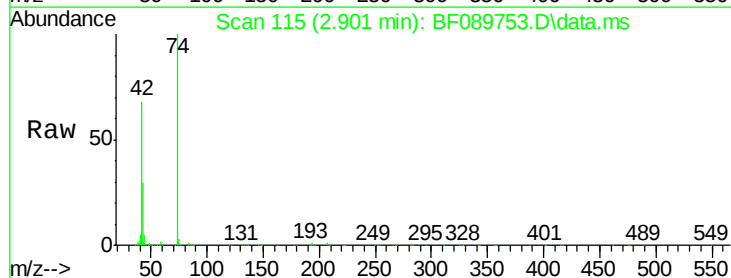
Tgt Ion: 42 Resp: 2517465

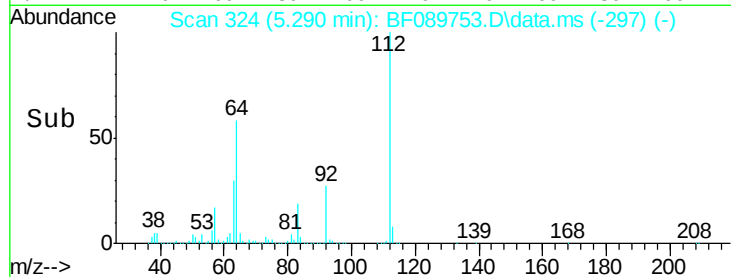
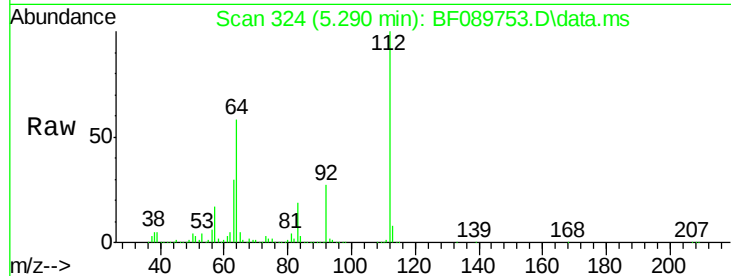
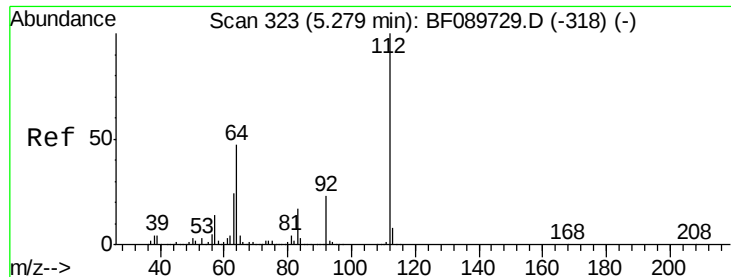
Ion Ratio Lower Upper

42 100

74 146.7 106.2 159.2

44 7.2 6.9 10.3





#5

2-Fluorophenol

Concen: 109.60 ng

RT: 5.290 min Scan# 32

Delta R.T. 0.012 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

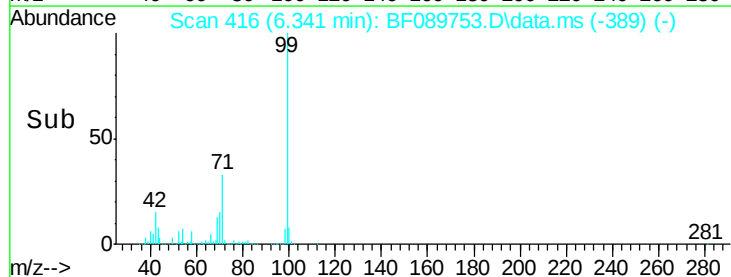
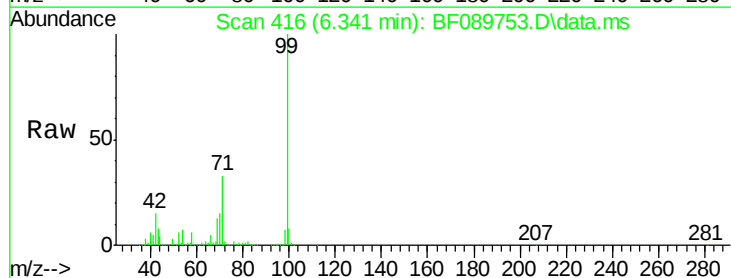
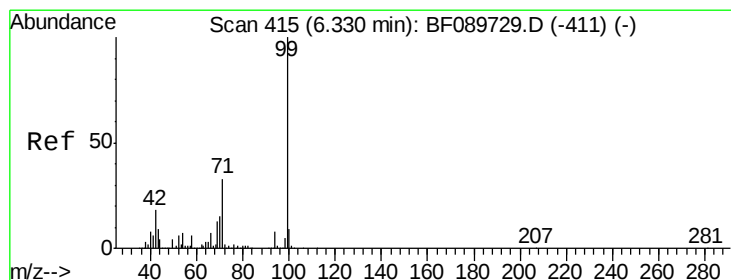
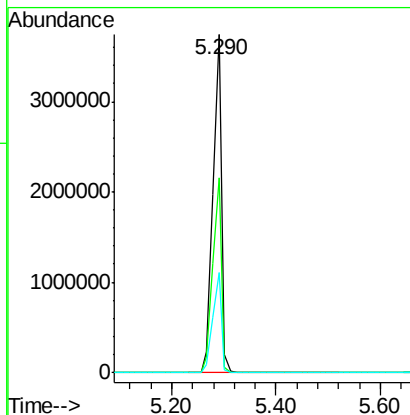
Tot Ion:112 Resp: 4254297

Ion Ratio Lower Upper

112 100

64 57.5 45.0 67.4

63 29.7 23.1 34.7



#7

Phenol-d6

Concen: 120.56 ng

RT: 6.341 min Scan# 416

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

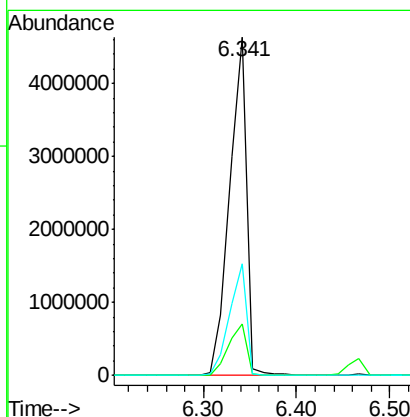
Tgt Ion: 99 Resp: 5952407

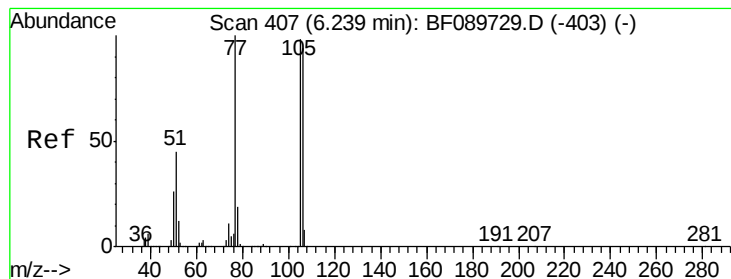
Ion Ratio Lower Upper

99 100

42 15.0 12.2 18.4

71 32.9 23.8 35.8





#9

Benzaldehyde

Concen: 3.16 ng

RT: 6.467 min Scan# 42

Delta R.T. 0.229 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

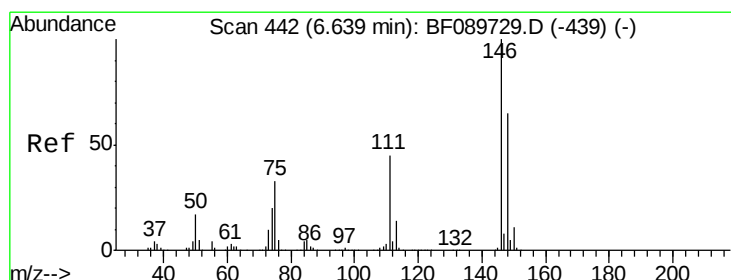
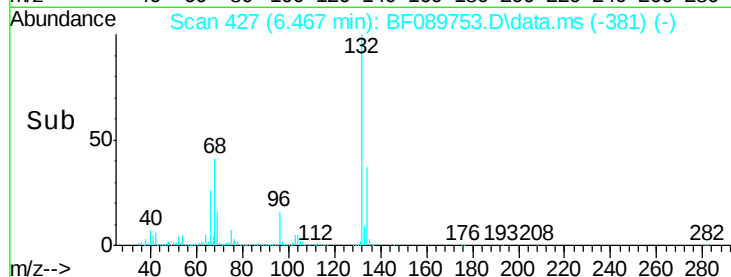
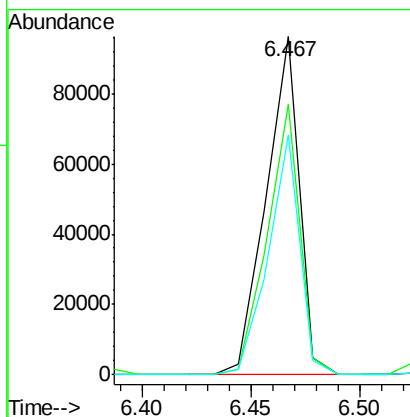
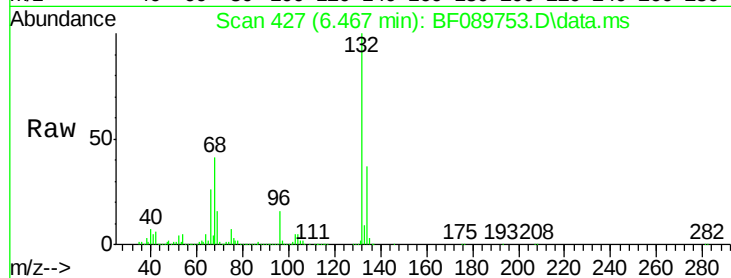
Tot Ion: 77 Resp: 103368

Ion Ratio Lower Upper

77 100

105 80.0 73.3 113.3

106 71.0 68.6 108.6



#12

1,3-Dichlorobenzene

Concen: 27.14 ng

RT: 6.719 min Scan# 449

Delta R.T. 0.080 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

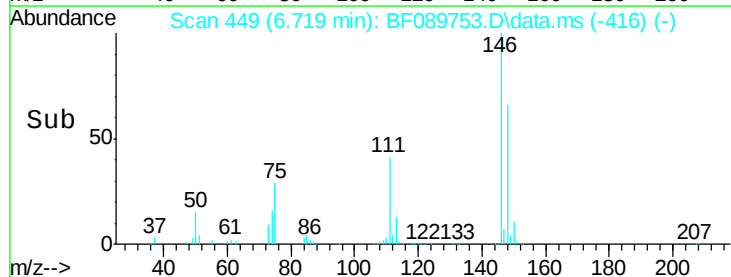
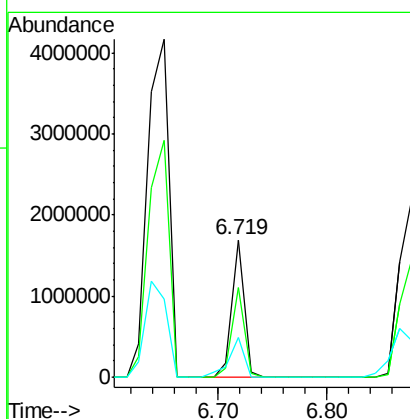
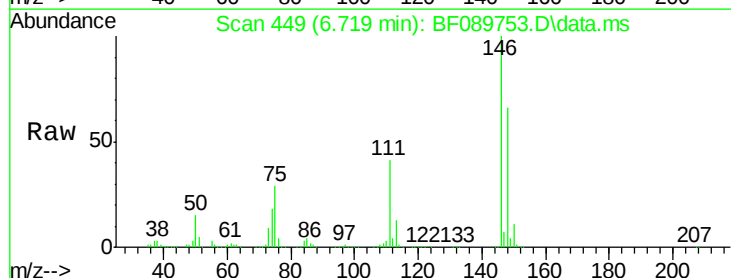
Tgt Ion: 146 Resp: 1339199

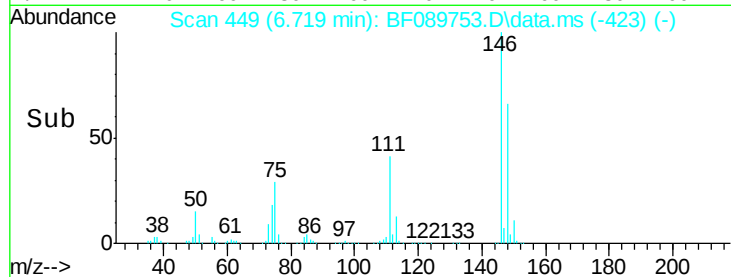
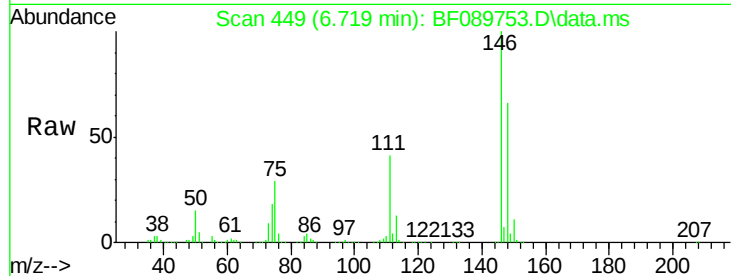
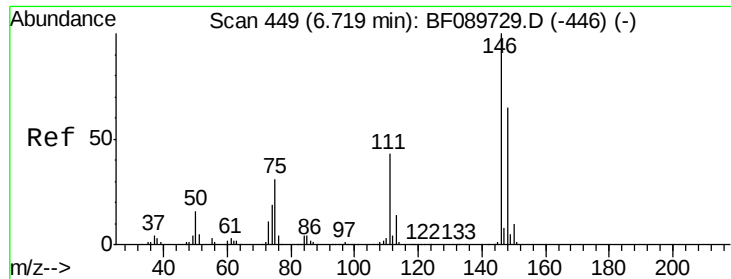
Ion Ratio Lower Upper

146 100

148 65.6 51.0 76.4

75 29.2 27.0 40.6

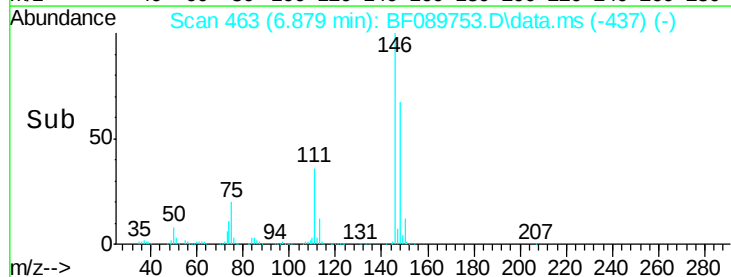
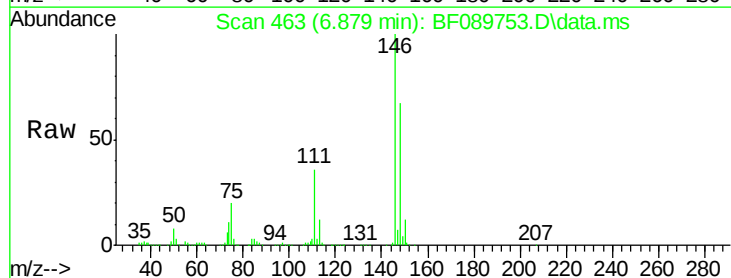
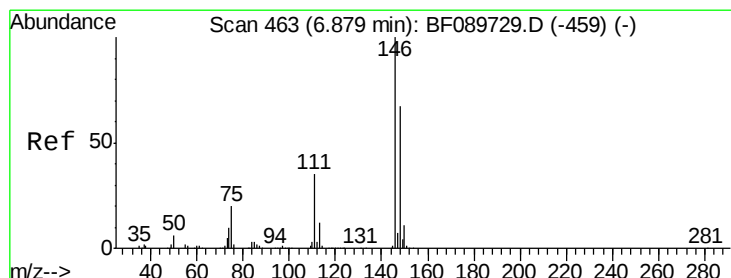
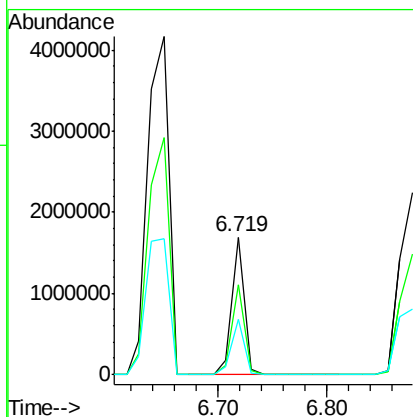




#13  
1,4-Dichlorobenzene  
Concen: 26.79 ng  
RT: 6.719 min Scan# 44  
Delta R.T. -0.000 min  
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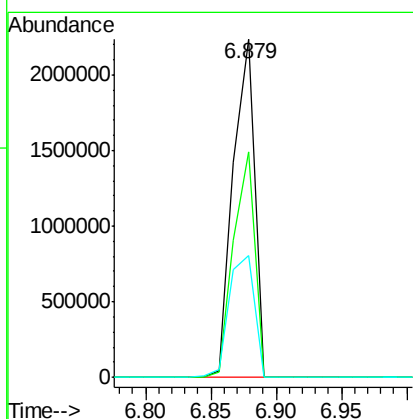
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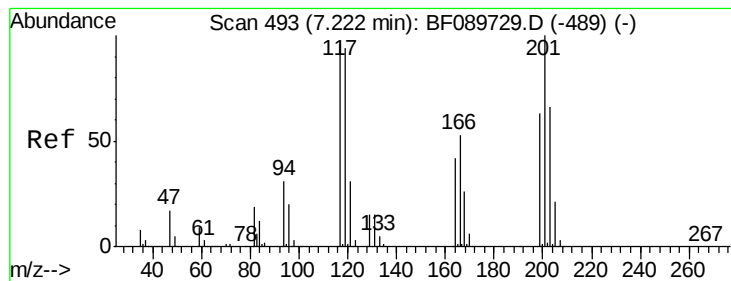
Tot Ion:146 Resp: 1339199  
Ion Ratio Lower Upper  
146 100  
148 65.6 51.0 76.6  
111 40.5 34.6 52.0



#14  
1,2-Dichlorobenzene  
Concen: 53.42 ng  
RT: 6.879 min Scan# 463  
Delta R.T. -0.000 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:146 Resp: 2546758  
Ion Ratio Lower Upper  
146 100  
148 66.7 52.2 78.2  
111 36.1 29.8 44.6





#18

Hexachloroethane

Concen: 52.80 ng

RT: 7.222 min Scan# 49

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
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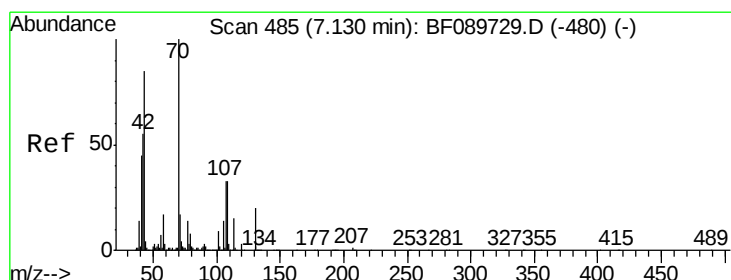
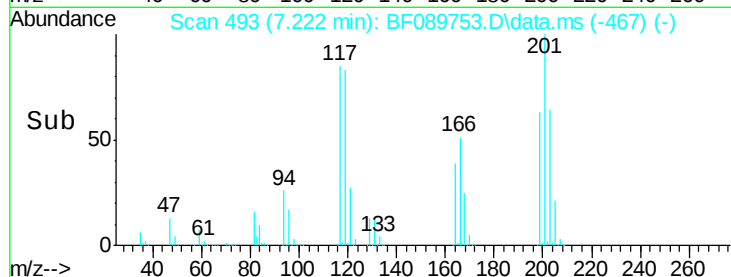
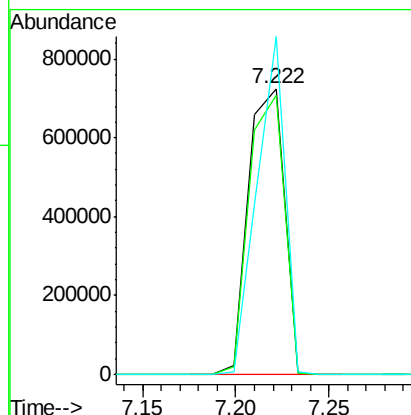
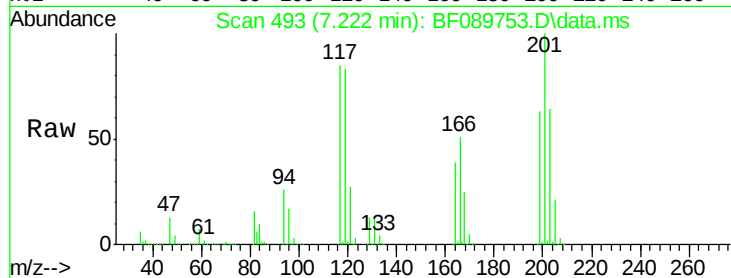
Tot Ion:117 Resp: 967485

Ion Ratio Lower Upper

117 100

119 97.8 77.1 115.7

201 118.2 76.9 115.3#



#19

n-Nitroso-di-n-propylamine

Concen: 14.53 ng

RT: 7.267 min Scan# 497

Delta R.T. 0.137 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Tgt Ion: 70 Resp: 469888

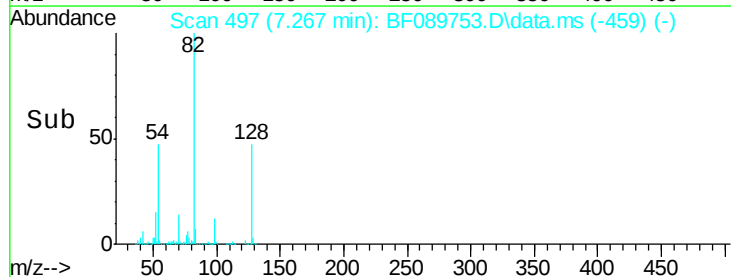
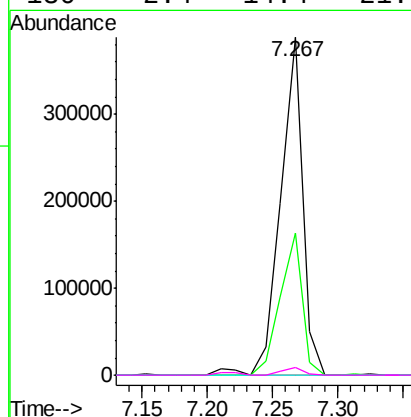
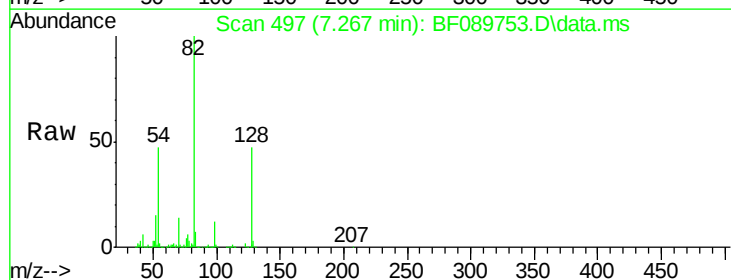
Ion Ratio Lower Upper

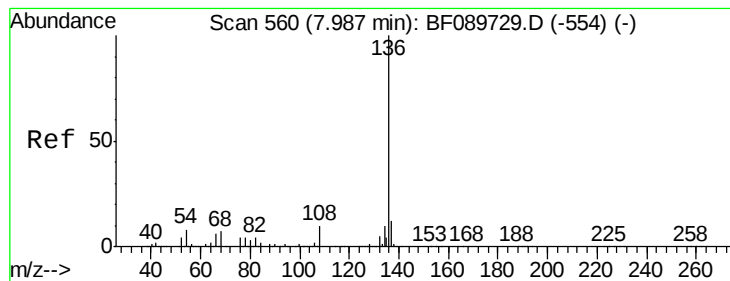
70 100

42 42.2 46.3 69.5#

101 0.0 7.0 10.6#

130 2.4 14.4 21.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.987 min Scan# 56

Delta R.T. -0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

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ClientSampleId :

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Tot Ion:136 Resp: 2664396

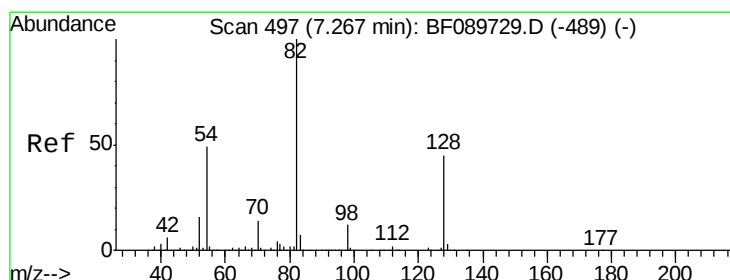
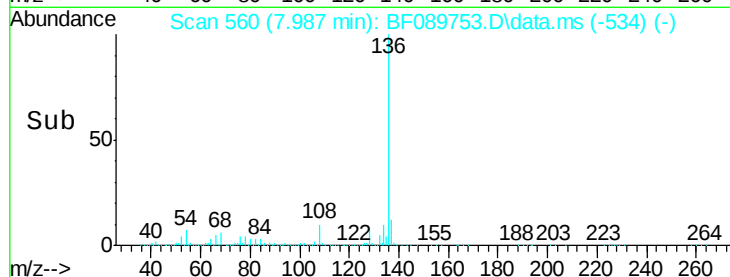
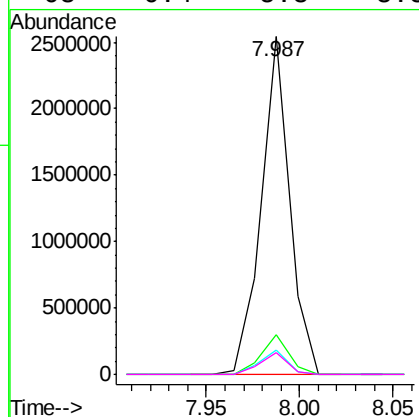
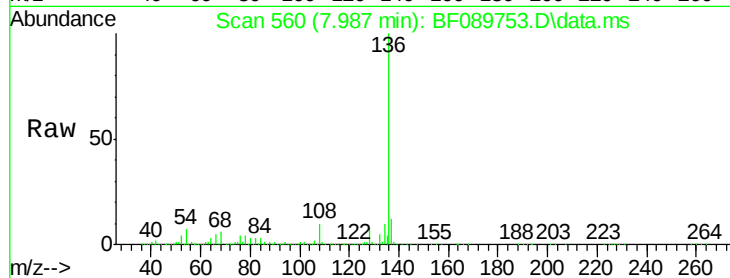
Ion Ratio Lower Upper

136 100

137 11.8 9.2 13.8

54 7.4 7.2 10.8

68 6.4 5.8 8.8



#23

Nitrobenzene-d5

Concen: 82.00 ng

RT: 7.267 min Scan# 497

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

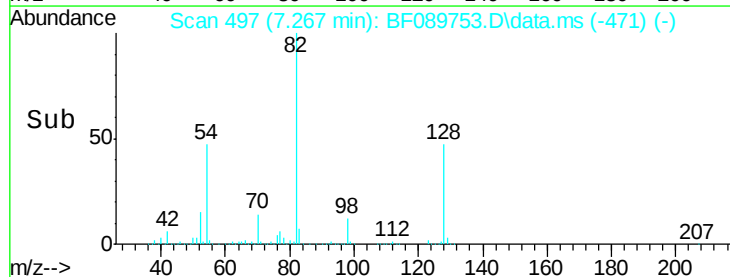
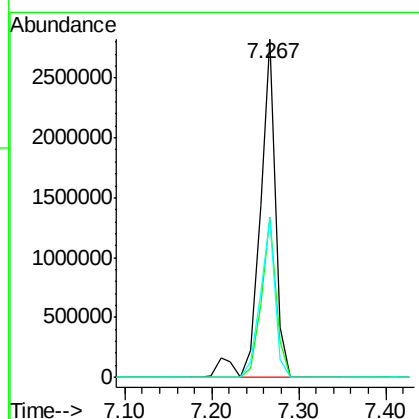
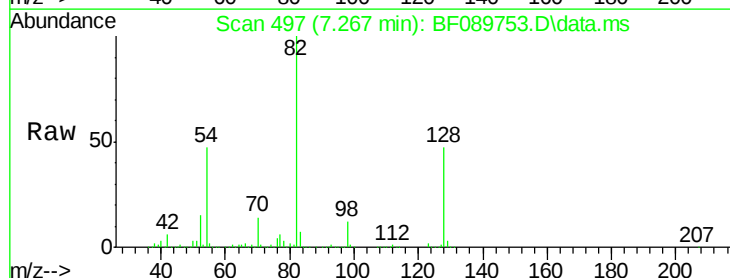
Tgt Ion: 82 Resp: 3577928

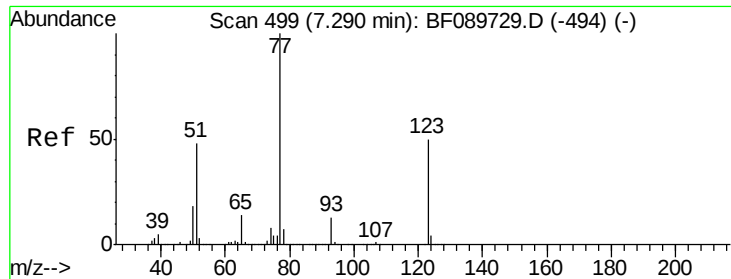
Ion Ratio Lower Upper

82 100

128 47.4 34.4 51.6

54 47.0 40.3 60.5





#24

Nitrobenzene

Concen: 51.73 ng

RT: 7.290 min Scan# 49

Delta R.T. -0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

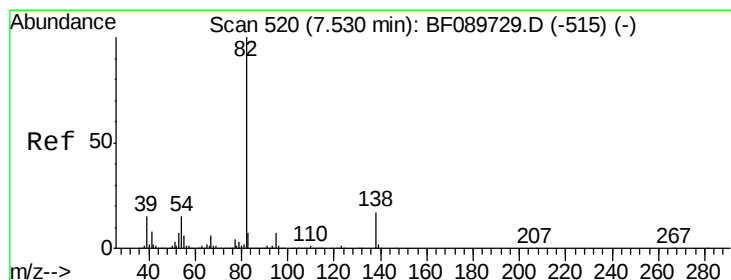
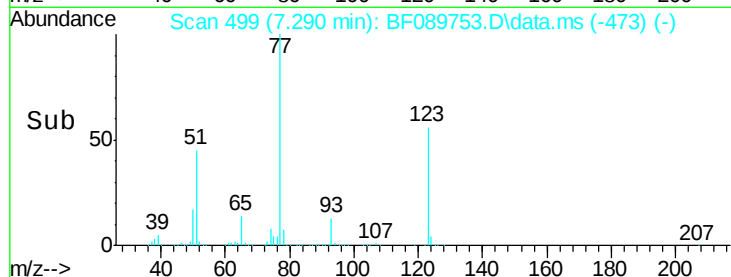
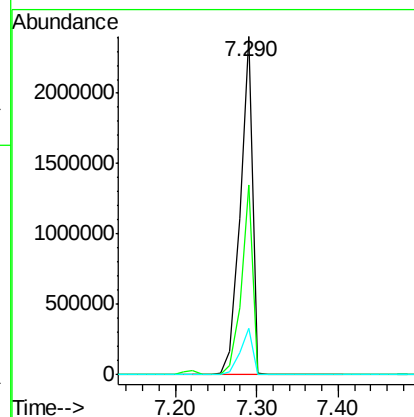
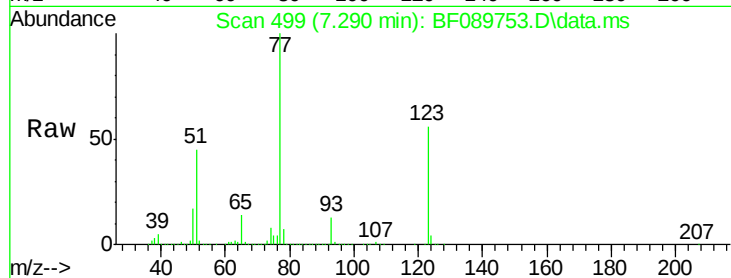
Tot Ion: 77 Resp: 2539341

Ion Ratio Lower Upper

77 100

123 56.1 36.2 54.2#

65 13.5 10.6 15.8



#25

Isophorone

Concen: 105.25 ng

RT: 7.530 min Scan# 520

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

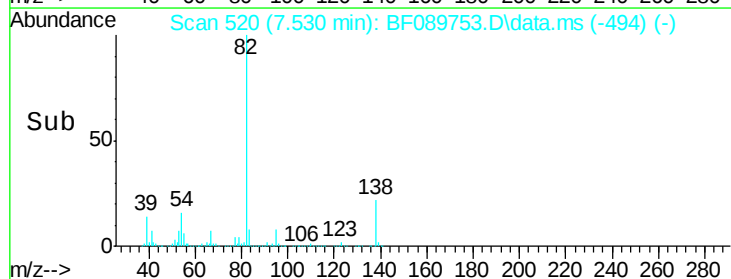
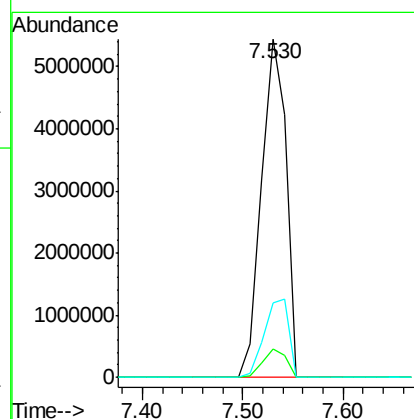
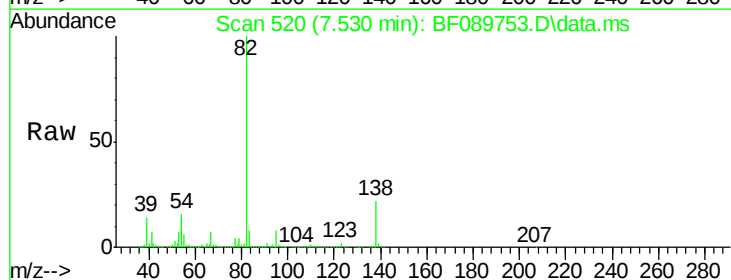
Tgt Ion: 82 Resp: 9189052

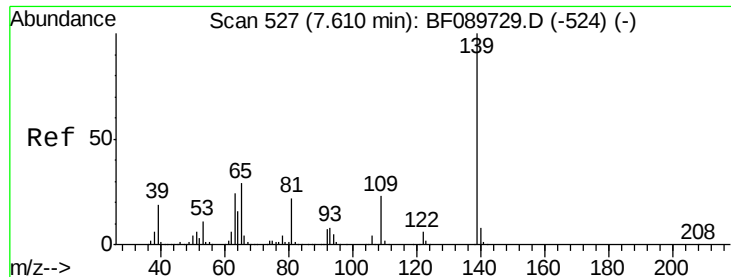
Ion Ratio Lower Upper

82 100

95 8.3 5.3 7.9#

138 21.9 13.0 19.4#





#26

2-Nitrophenol

Concen: 9.53 ng

RT: 7.542 min Scan# 521

Delta R.T. -0.069 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

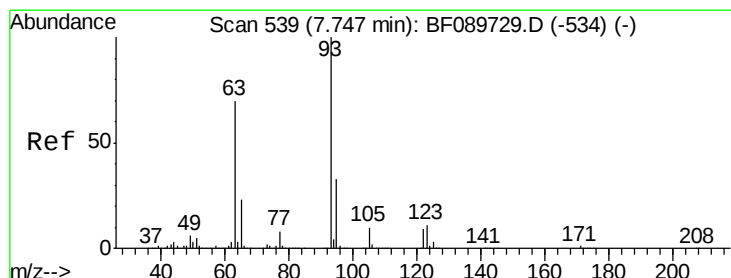
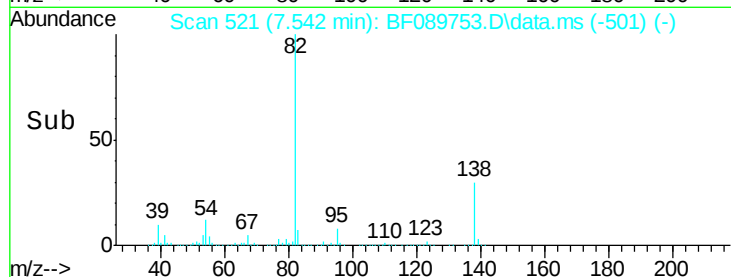
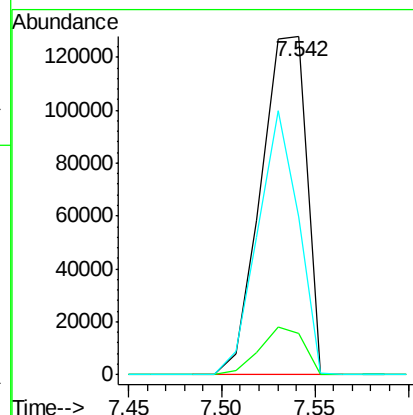
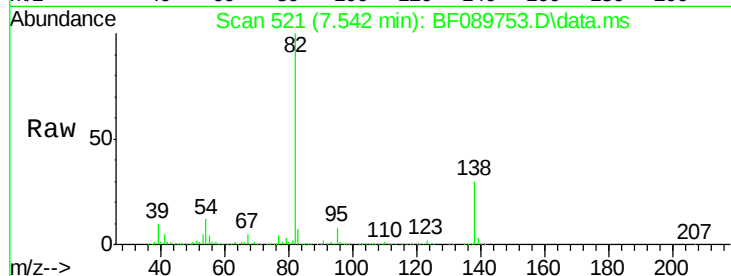
Tot Ion:139 Resp: 220169

Ion Ratio Lower Upper

139 100

109 12.3 19.5 29.3#

65 46.8 26.5 39.7#



#28

bis(2-Chloroethoxy)methane

Concen: 49.62 ng

RT: 7.747 min Scan# 539

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

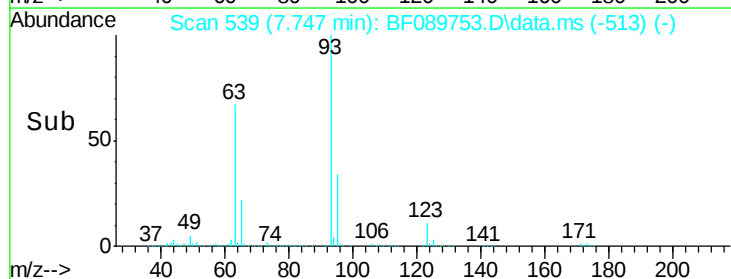
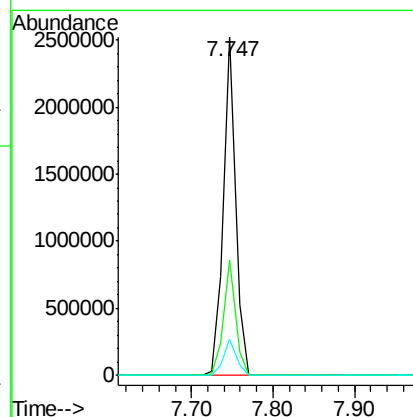
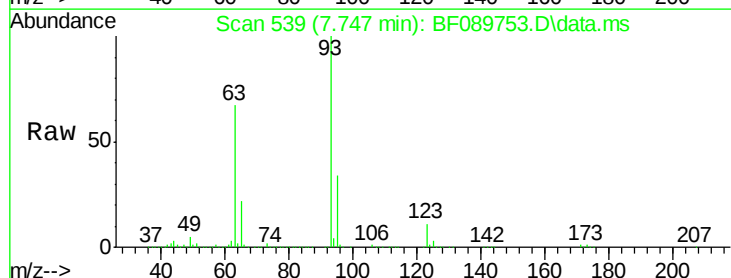
Tgt Ion: 93 Resp: 2632526

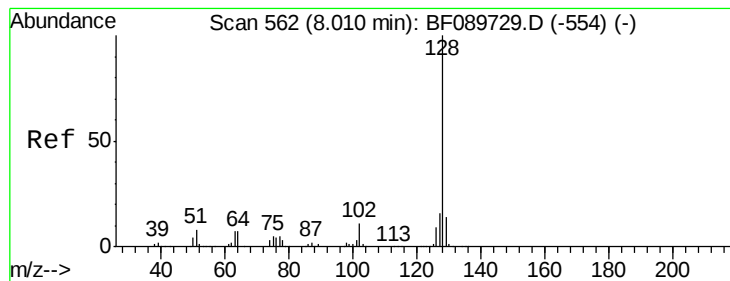
Ion Ratio Lower Upper

93 100

95 34.3 25.5 38.3

123 10.7 8.5 12.7





#31

Naphthalene

Concen: 63.15 ng

RT: 8.010 min Scan# 56

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

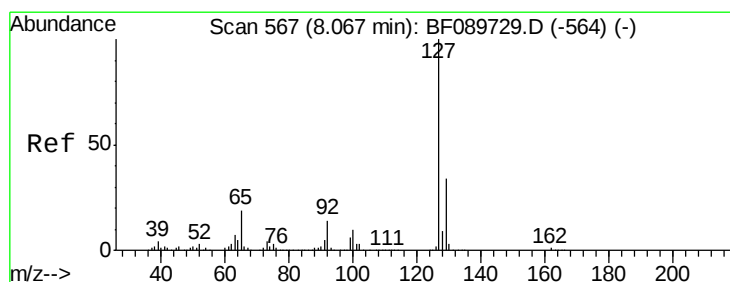
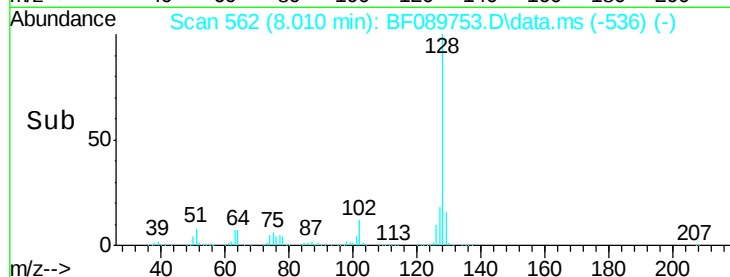
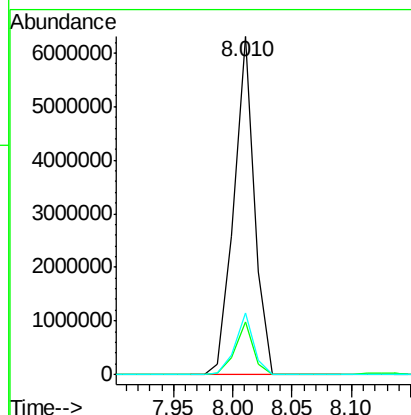
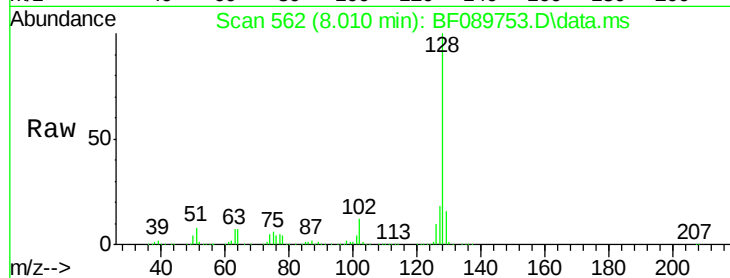
Instrument :

BNA\_F

ClientSampleId :  
9536

Tot Ion:128 Resp: 7552361

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 15.6  | 9.5   | 14.3# |
| 127 | 18.2  | 11.3  | 16.9# |



#33

4-Chloroaniline

Concen: 22.29 ng

RT: 8.010 min Scan# 562

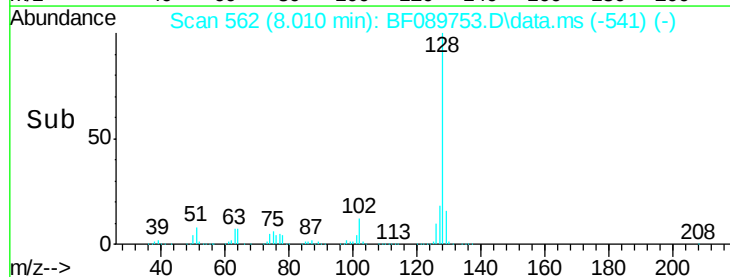
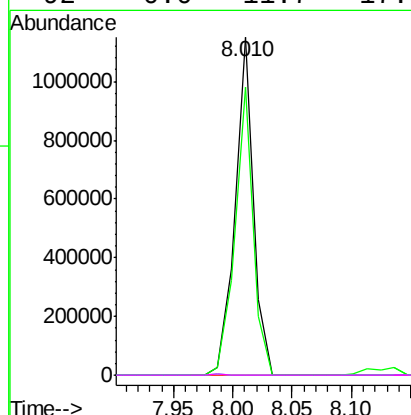
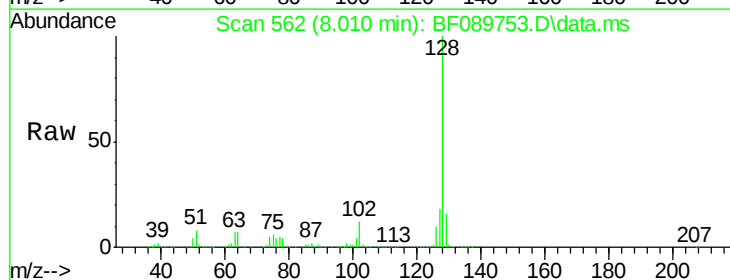
Delta R.T. -0.057 min

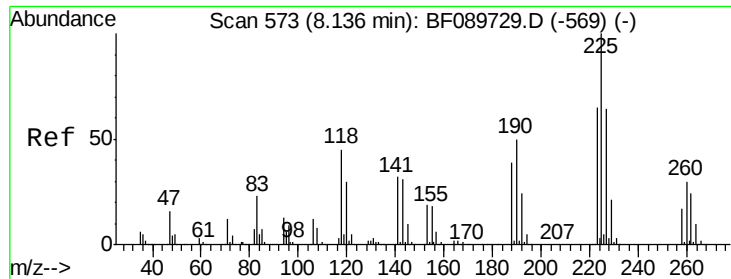
Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Tgt Ion:127 Resp: 1233330

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 127 | 100   |       |       |
| 129 | 85.4  | 27.0  | 40.6# |
| 65  | 0.0   | 14.7  | 22.1# |
| 92  | 0.0   | 11.7  | 17.5# |

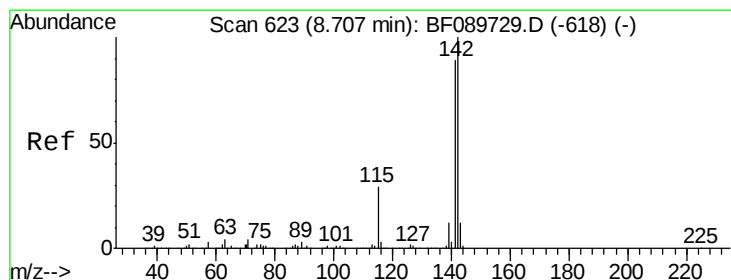
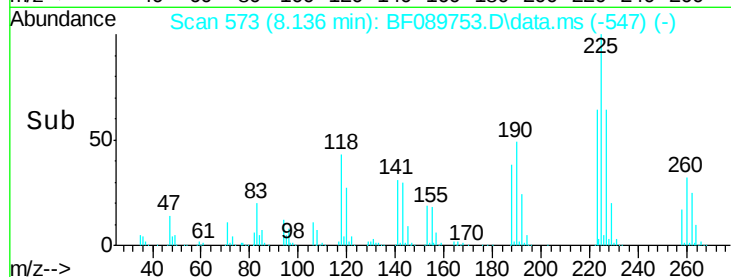
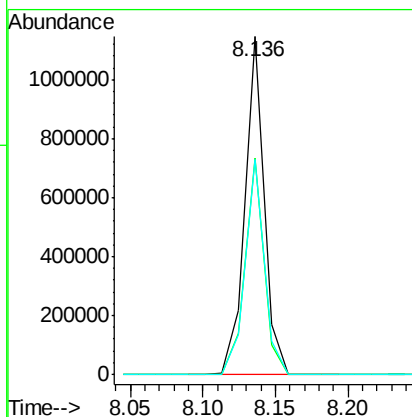
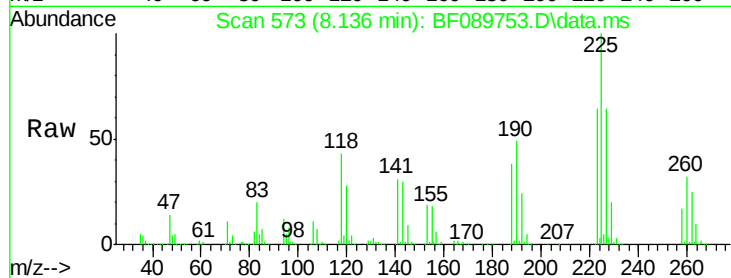




#34  
Hexachlorobutadiene  
Concen: 51.22 ng  
RT: 8.136 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

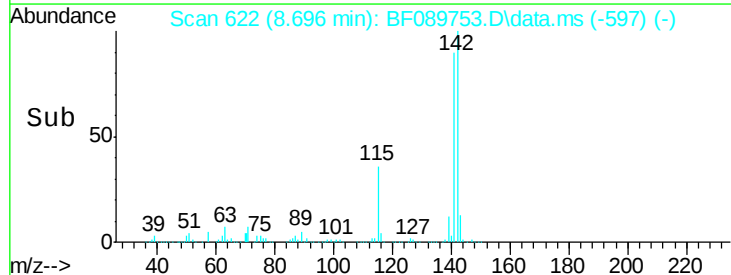
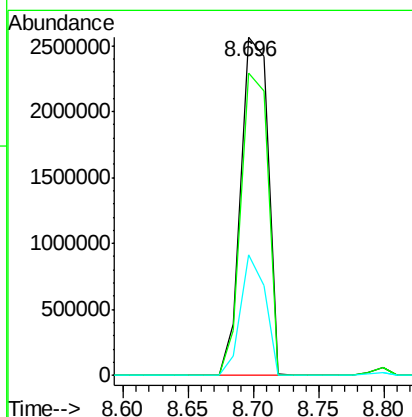
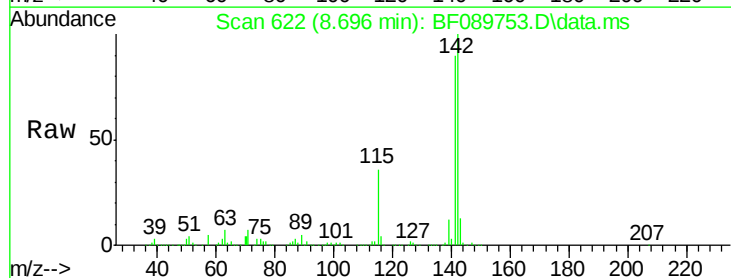
Instrument :  
BNA\_F  
ClientSampleId :  
9536

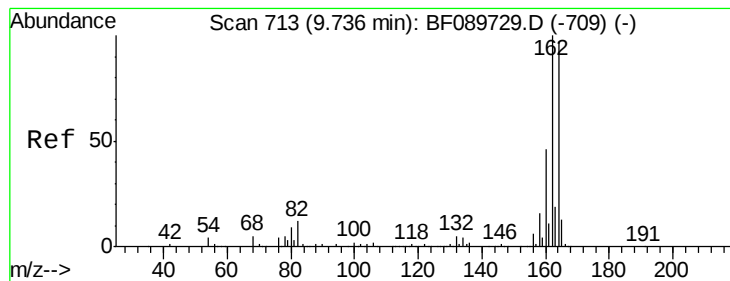
Tot Ion:225 Resp: 1052724  
Ion Ratio Lower Upper  
225 100  
223 64.0 51.0 76.6  
227 63.6 49.8 74.6



#37  
2-Methylnaphthalene  
Concen: 45.36 ng  
RT: 8.696 min Scan# 622  
Delta R.T. -0.011 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:142 Resp: 3692453  
Ion Ratio Lower Upper  
142 100  
141 89.6 71.4 107.2  
115 35.7 22.7 34.1#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.736 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

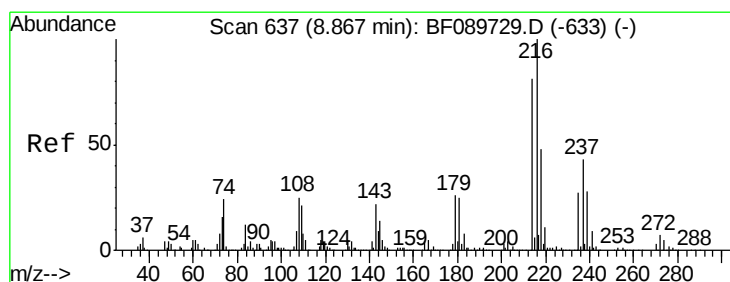
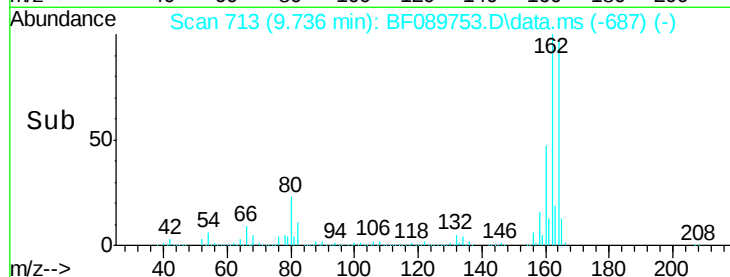
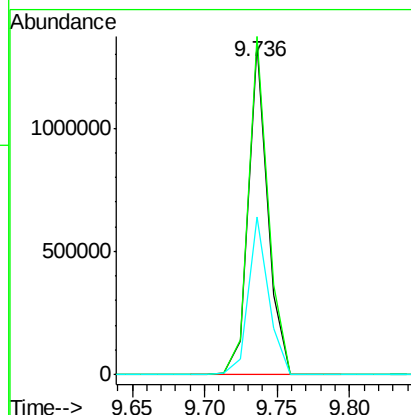
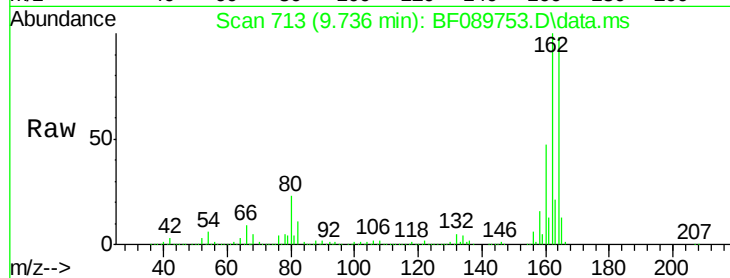
Tot Ion:164 Resp: 1238848

Ion Ratio Lower Upper

164 100

162 102.5 81.4 122.2

160 47.9 37.8 56.6



#40

Hexachlorocyclopentadiene

Concen: 124.31 ng

RT: 8.867 min Scan# 637

Delta R.T. -0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

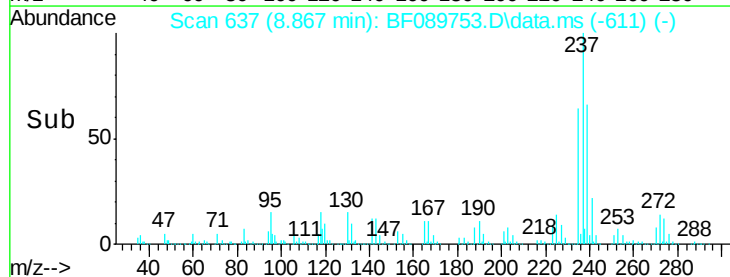
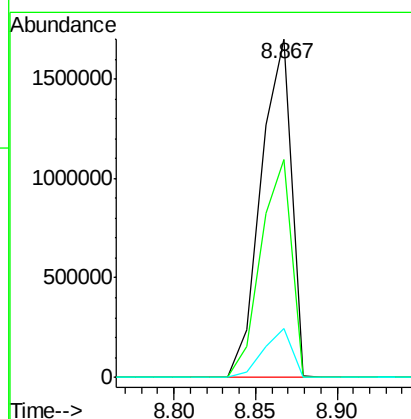
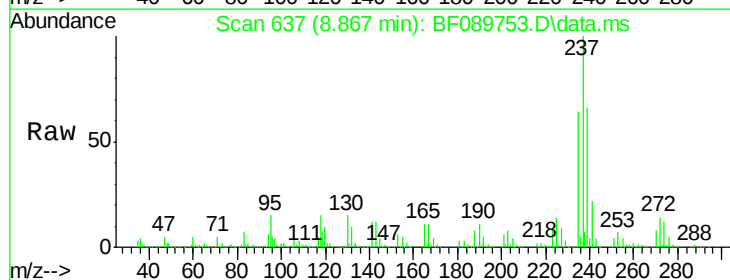
Tgt Ion:237 Resp: 2206376

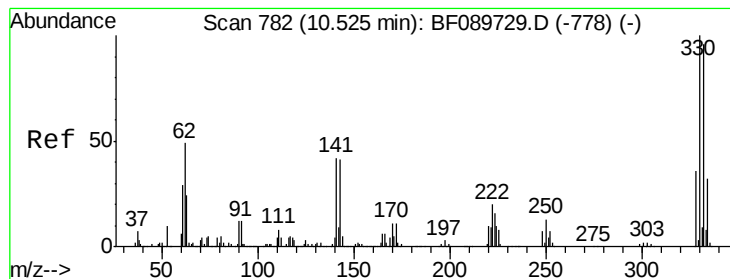
Ion Ratio Lower Upper

237 100

235 64.3 43.7 83.7

272 14.5 0.0 31.6

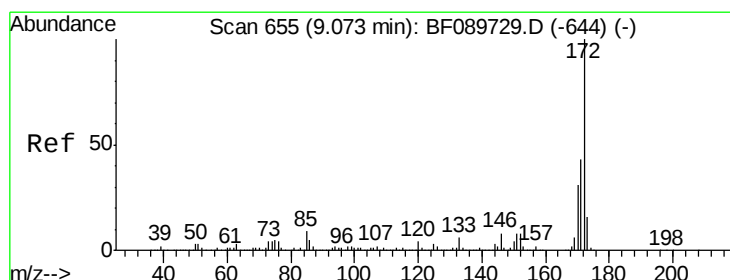
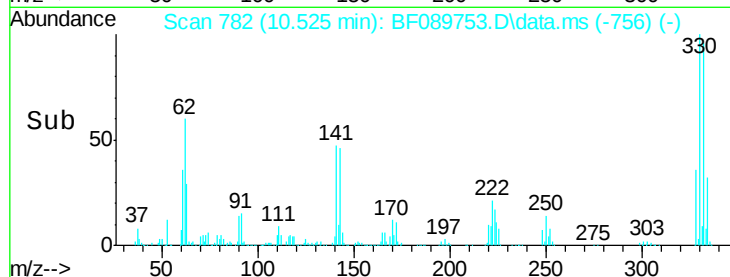
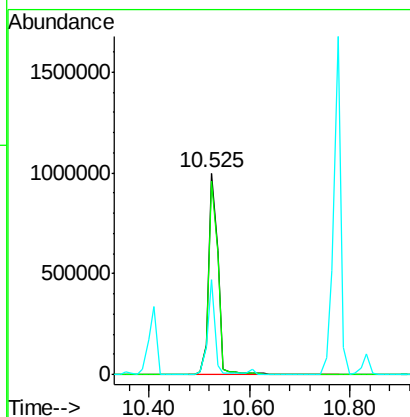
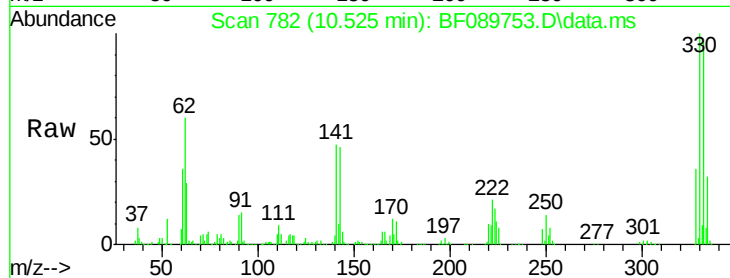




#41  
 2,4,6-Tribromophenol  
 Concen: 107.88 ng  
 RT: 10.525 min Scan# 781  
 Delta R.T. 0.000 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

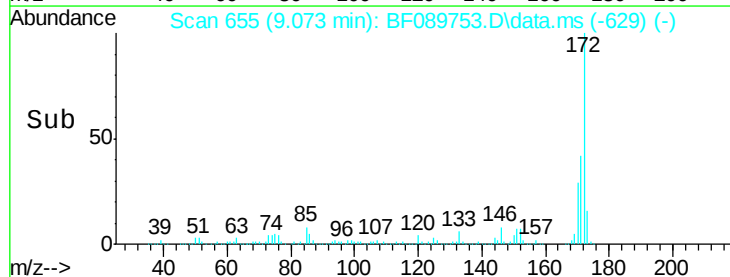
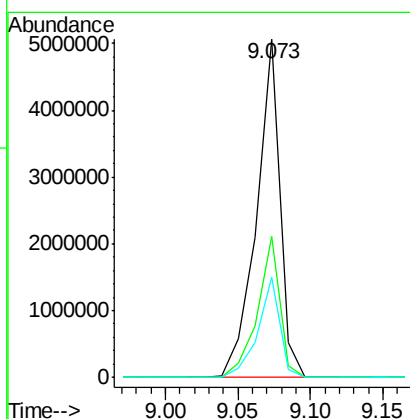
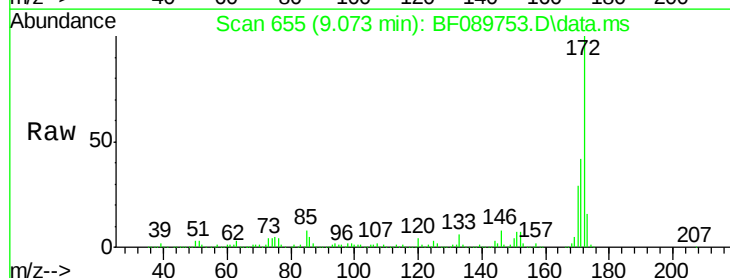
Instrument :  
 BNA\_F  
 ClientSampleId :  
 9536

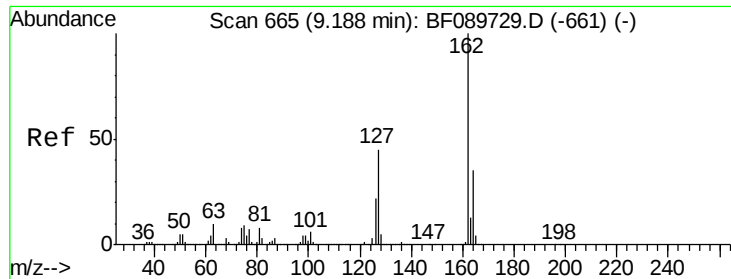
Tot Ion:330 Resp: 1292922  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 76.7 115.1  
 141 36.6 30.2 45.2



#44  
 2-Fluorobiphenyl  
 Concen: 73.38 ng  
 RT: 9.073 min Scan# 655  
 Delta R.T. 0.000 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

Tgt Ion:172 Resp: 5665495  
 Ion Ratio Lower Upper  
 172 100  
 171 41.7 30.5 45.7  
 170 29.5 20.6 31.0

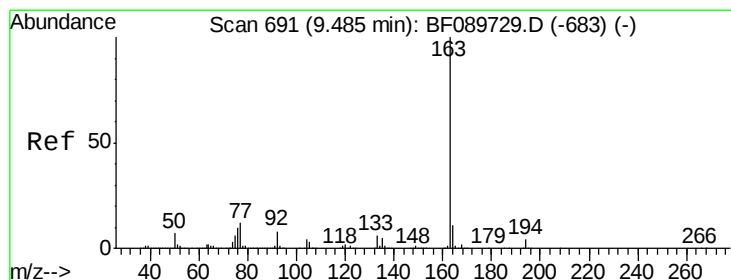
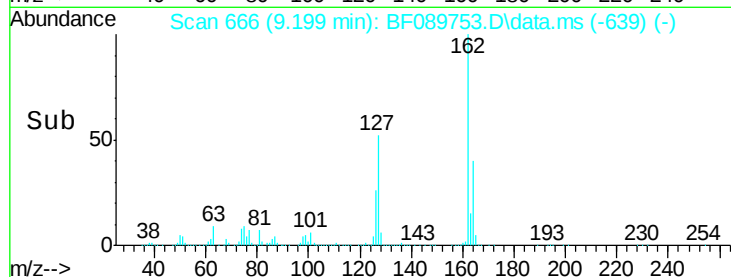
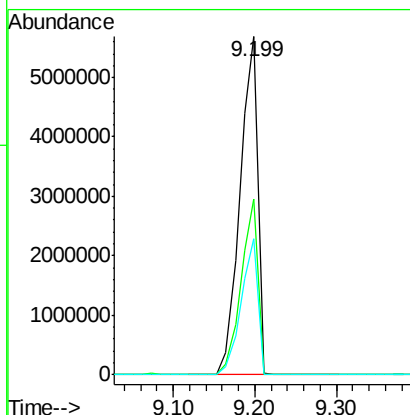
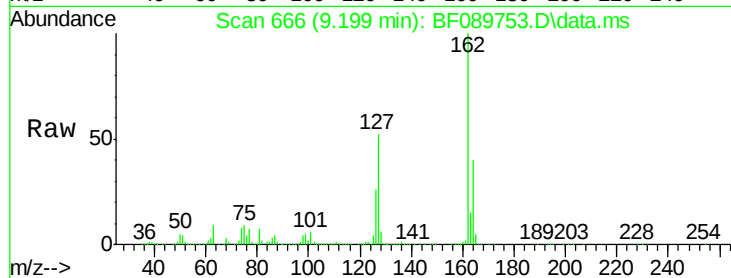




#46  
2-Chloronaphthalene  
Concen: 111.02 ng  
RT: 9.199 min Scan# 66  
Delta R.T. 0.011 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

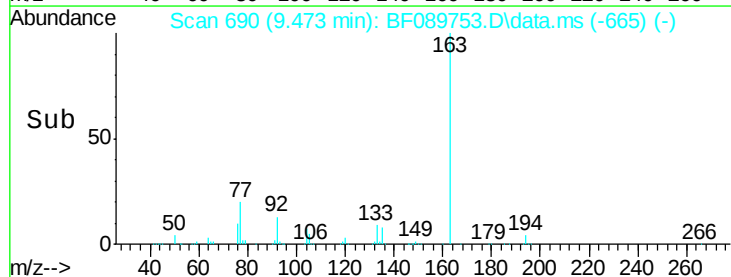
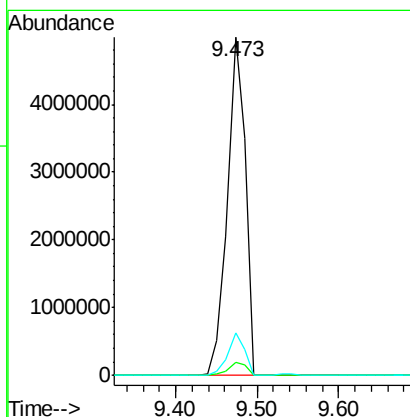
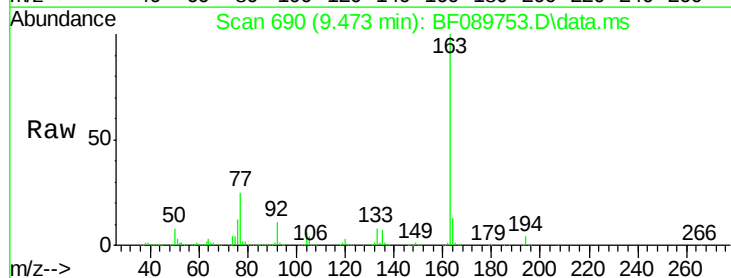
Instrument :  
BNA\_F  
ClientSampleId :  
9536

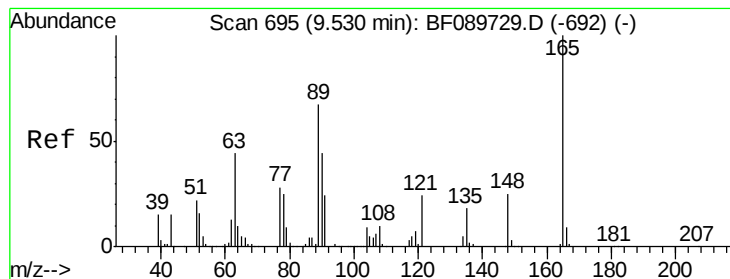
Tot Ion:162 Resp: 853554  
Ion Ratio Lower Upper  
162 100  
127 51.8 35.5 53.3  
164 40.3 26.6 40.0#



#49  
Dimethylphthalate  
Concen: 84.92 ng  
RT: 9.473 min Scan# 690  
Delta R.T. -0.011 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:163 Resp: 7612578  
Ion Ratio Lower Upper  
163 100  
194 3.8 2.6 3.8  
164 12.6 8.6 12.8





#50

2,6-Dinitrotoluene

Concen: 75.52 ng

RT: 9.542 min Scan# 69

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

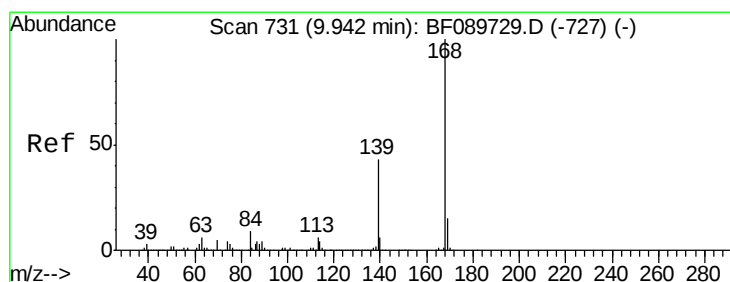
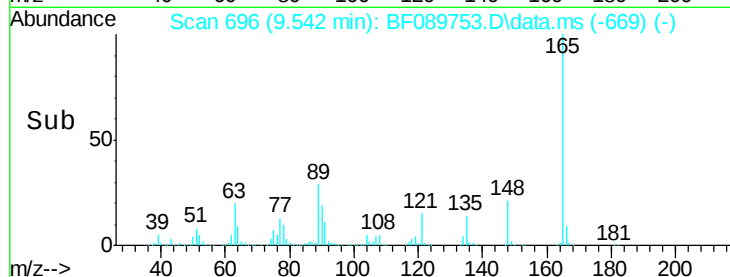
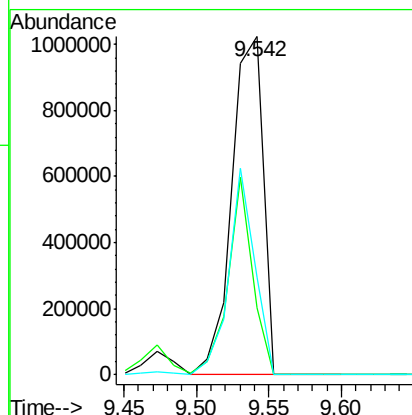
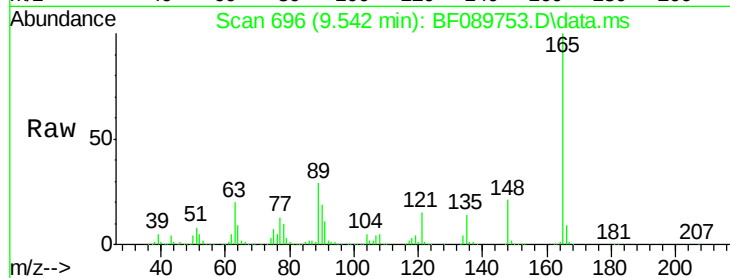
Tot Ion:165 Resp: 1532143

Ion Ratio Lower Upper

165 100

63 19.6 41.7 62.5#

89 28.7 44.6 67.0#



#54

Dibenzofuran

Concen: 76.34 ng

RT: 9.953 min Scan# 732

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

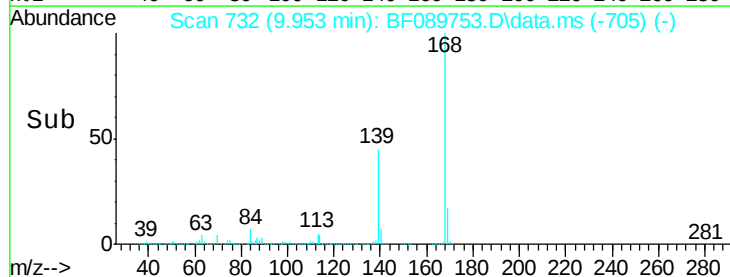
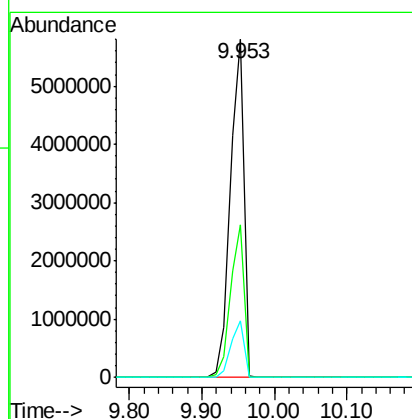
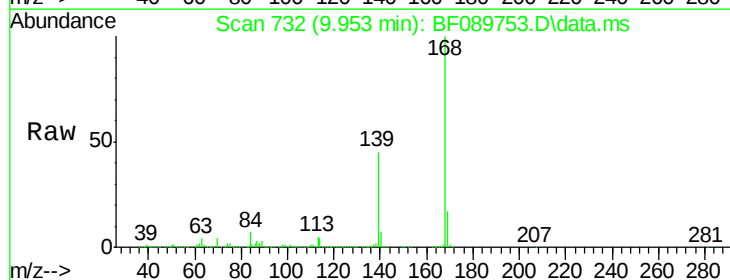
Tgt Ion:168 Resp: 7502925

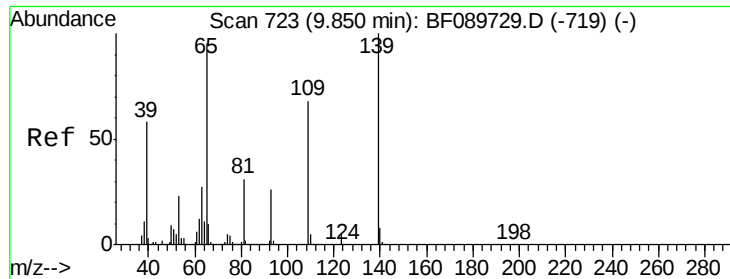
Ion Ratio Lower Upper

168 100

139 45.1 34.6 52.0

169 16.8 11.5 17.3

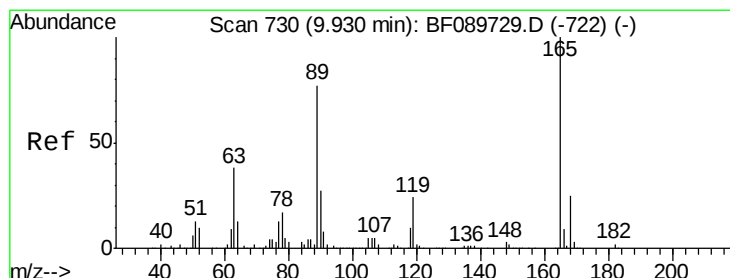
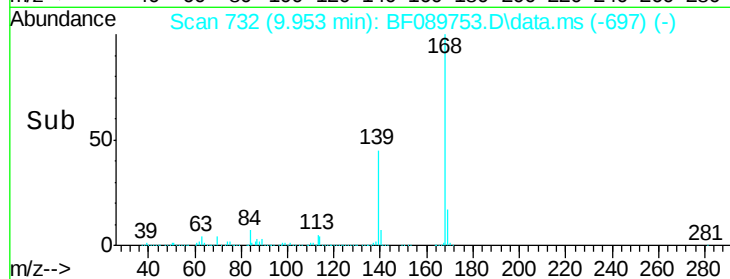
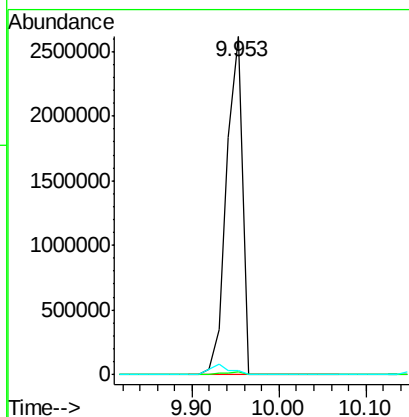
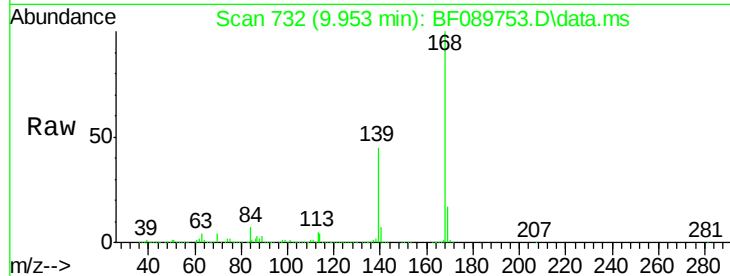




#55  
4-Nitrophenol  
Concen: 183.37 ng  
RT: 9.953 min Scan# 731  
Delta R.T. 0.103 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

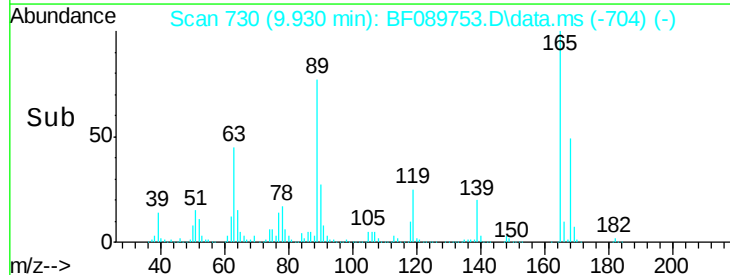
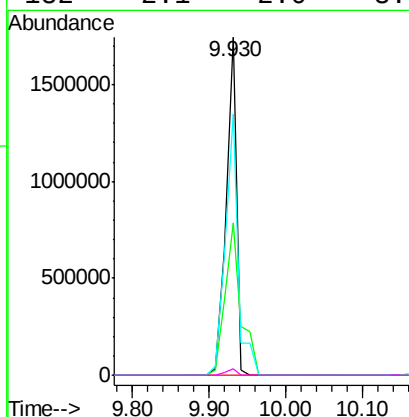
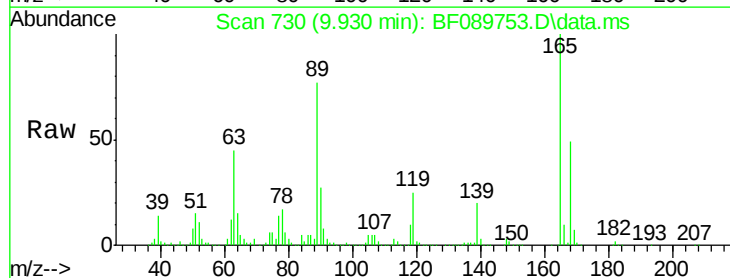
Instrument :  
BNA\_F  
ClientSampleId :  
9536

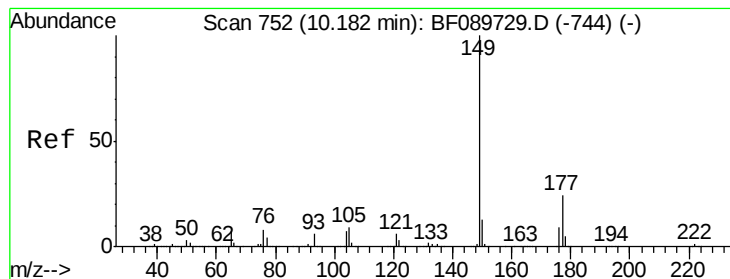
Tot Ion:139 Resp: 3327603  
Ion Ratio Lower Upper  
139 100  
109 0.7 43.0 83.0#  
65 1.0 55.7 95.7#



#56  
2,4-Dinitrotoluene  
Concen: 64.63 ng  
RT: 9.930 min Scan# 730  
Delta R.T. -0.000 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:165 Resp: 1685545  
Ion Ratio Lower Upper  
165 100  
63 45.0 23.7 35.5#  
89 77.4 44.0 66.0#  
182 2.1 2.0 3.0





#59

Diethylphthalate

Concen: 83.60 ng

RT: 10.182 min Scan# 75

Delta R.T. -0.000 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

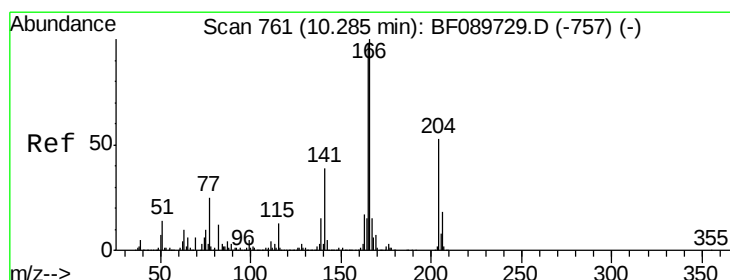
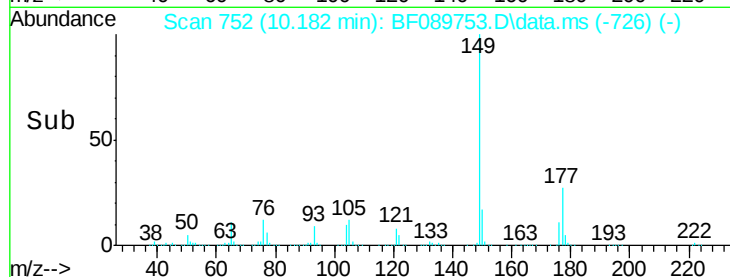
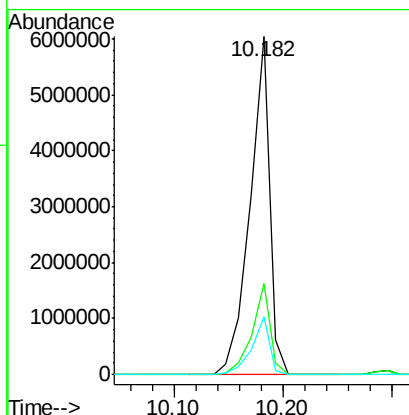
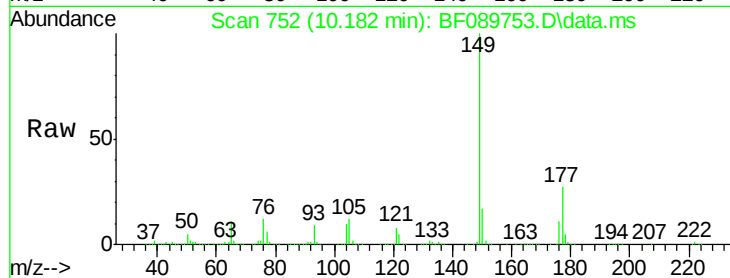
Tot Ion:149 Resp: 7598166

Ion Ratio Lower Upper

149 100

177 26.9 16.6 25.0#

150 16.9 10.5 15.7#



#60

4-Chlorophenyl-phenylether

Concen: 107.59 ng

RT: 10.296 min Scan# 762

Delta R.T. 0.012 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

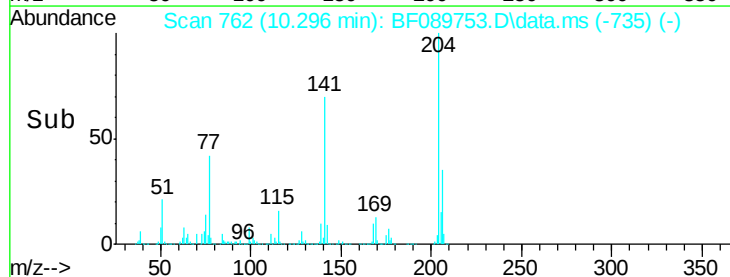
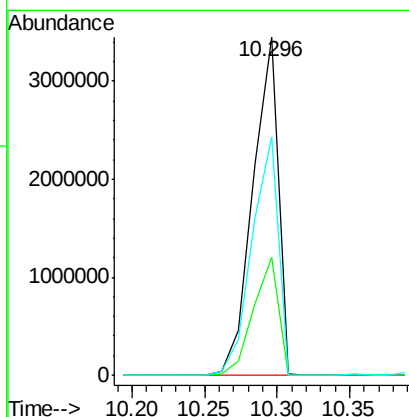
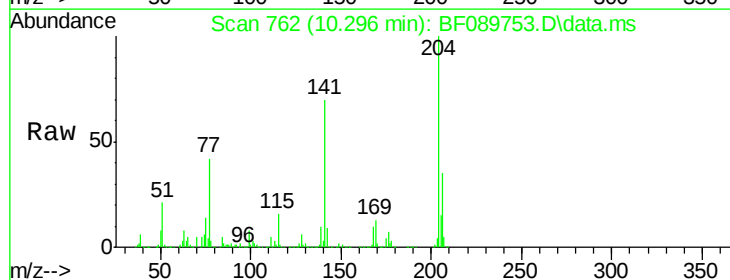
Tgt Ion:204 Resp: 4194628

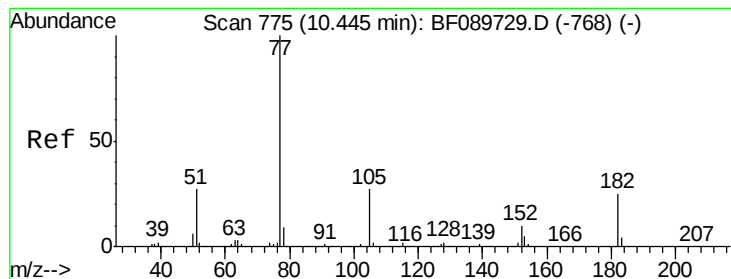
Ion Ratio Lower Upper

204 100

206 34.9 26.5 39.7

141 70.4 54.1 81.1





#62

Azobenzene

Concen: 8.84 ng

RT: 10.410 min Scan# 77

Delta R.T. -0.034 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

Tot Ion: 77 Resp: 759031

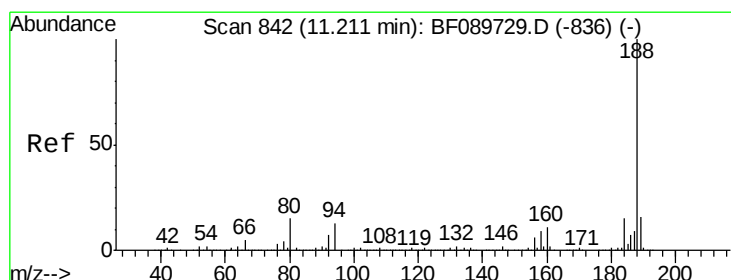
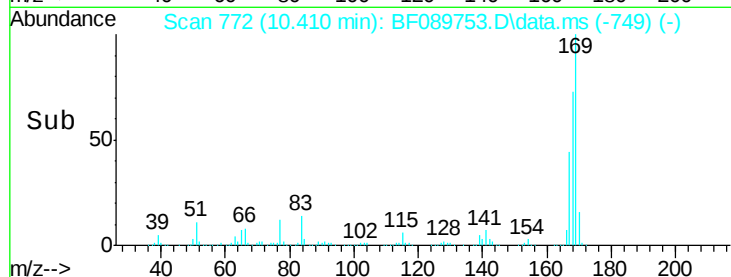
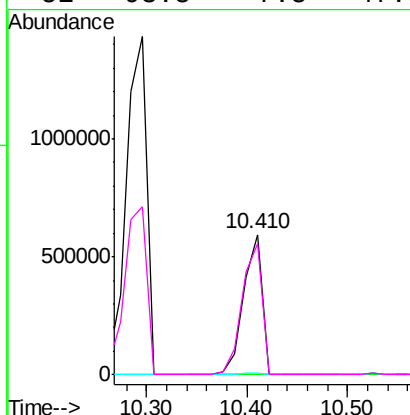
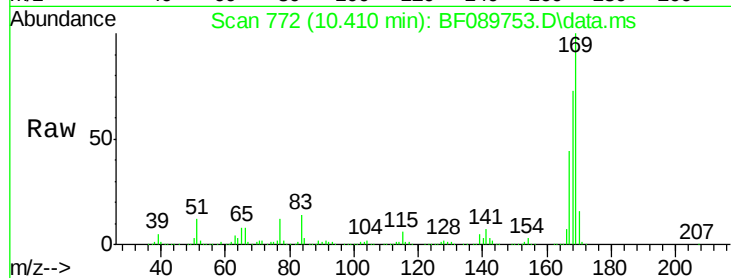
Ion Ratio Lower Upper

77 100

182 0.0 5.6 45.6#

105 1.2 4.0 44.0#

51 93.8 7.8 47.8#



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.222 min Scan# 843

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

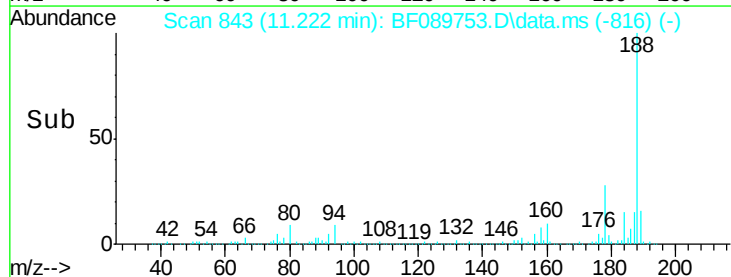
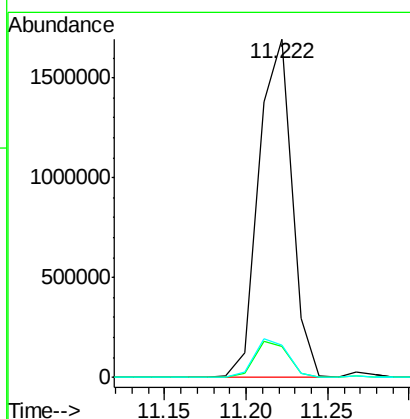
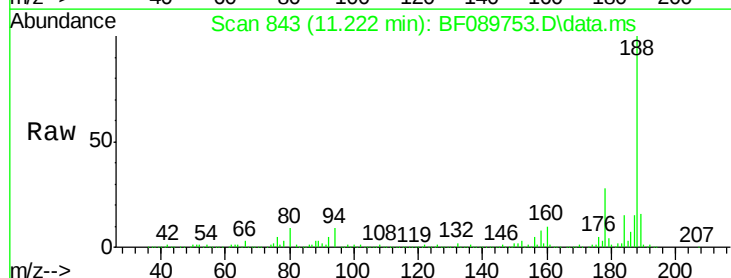
Tgt Ion: 188 Resp: 2399783

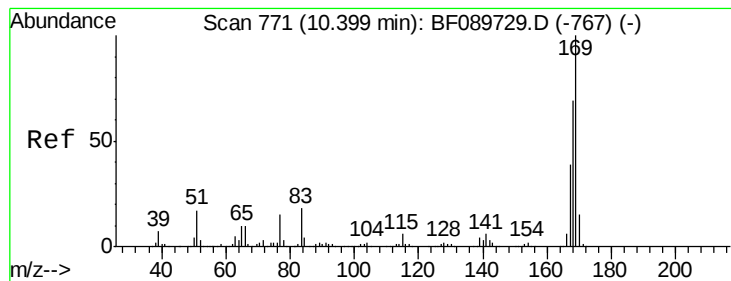
Ion Ratio Lower Upper

188 100

94 9.2 10.2 15.2#

80 9.4 10.9 16.3#





#65

n-Nitrosodiphenylamine

Concen: 75.75 ng

RT: 10.410 min Scan# 771

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

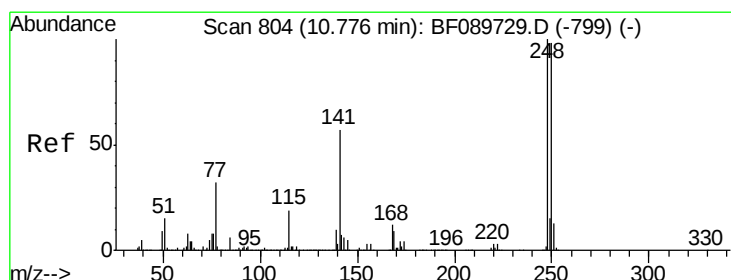
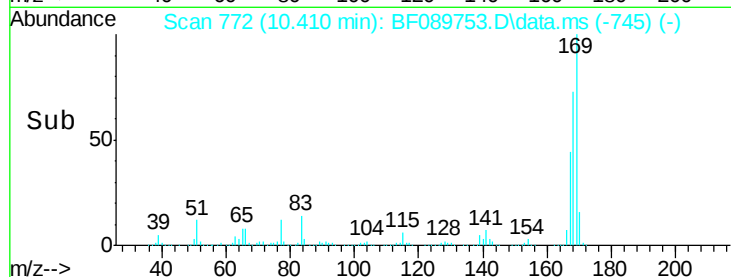
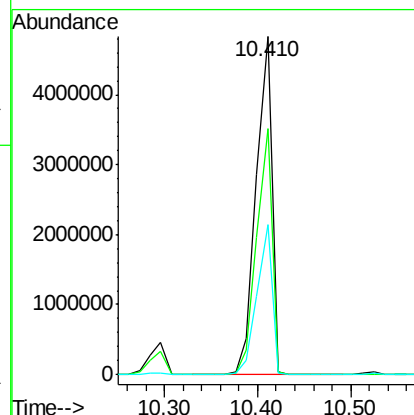
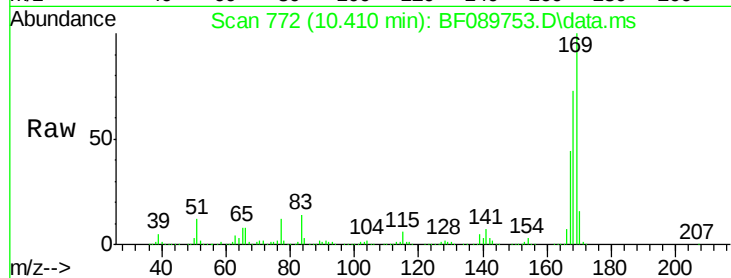
BNA\_F

ClientSampleId :

9536

Tot Ion:169 Resp: 5704517

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 169 | 100   |       |       |
| 168 | 72.8  | 54.6  | 82.0  |
| 167 | 44.3  | 30.6  | 45.8  |



#66

4-Bromophenyl-phenylether

Concen: 78.75 ng

RT: 10.776 min Scan# 804

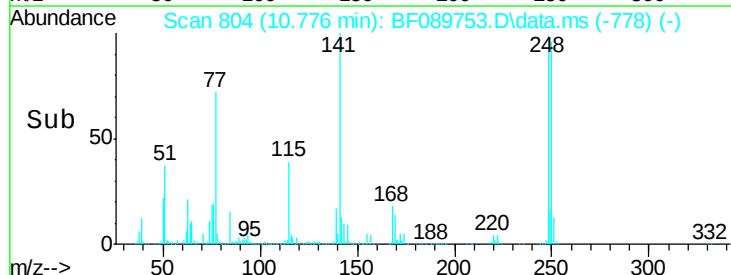
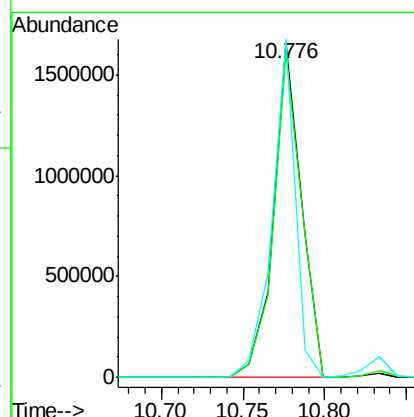
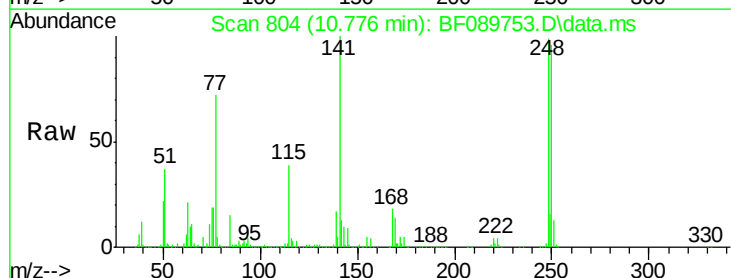
Delta R.T. -0.000 min

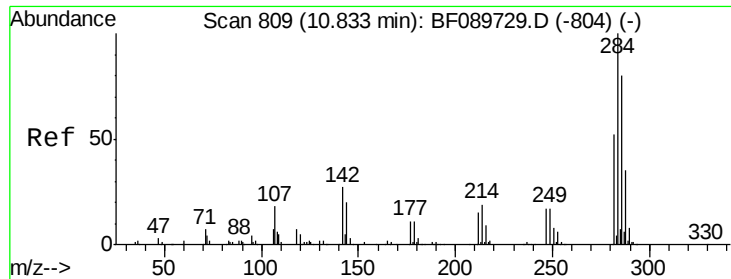
Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Tgt Ion:248 Resp: 1957231

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 248 | 100   |       |       |
| 250 | 96.5  | 78.6  | 117.8 |
| 141 | 100.8 | 31.4  | 47.2# |

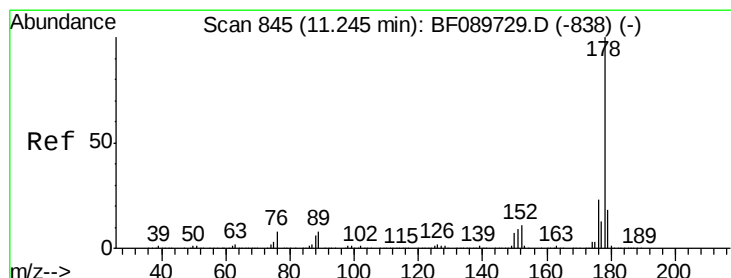
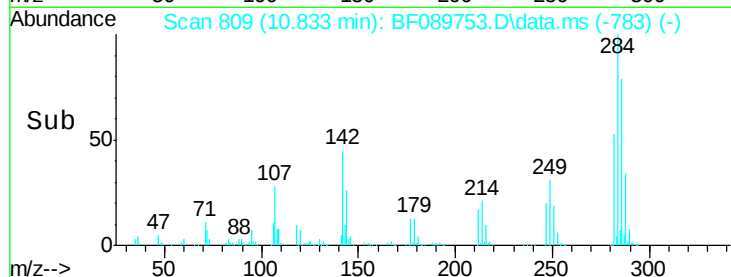
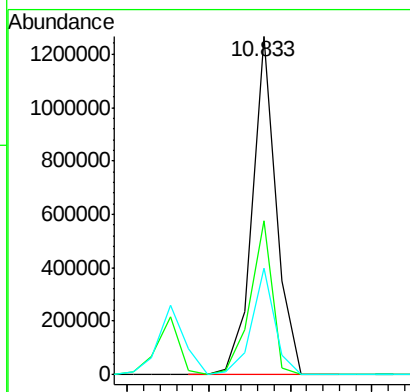
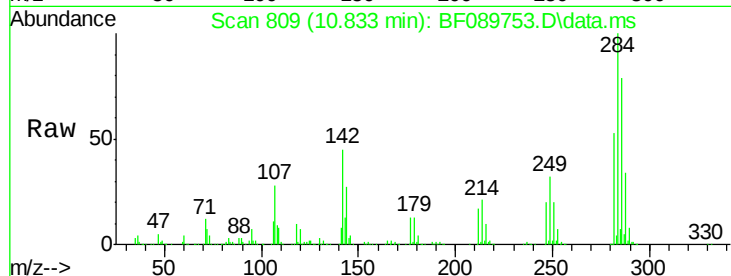




#67  
Hexachlorobenzene  
Concen: 46.56 ng  
RT: 10.833 min Scan# 809  
Delta R.T. -0.000 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

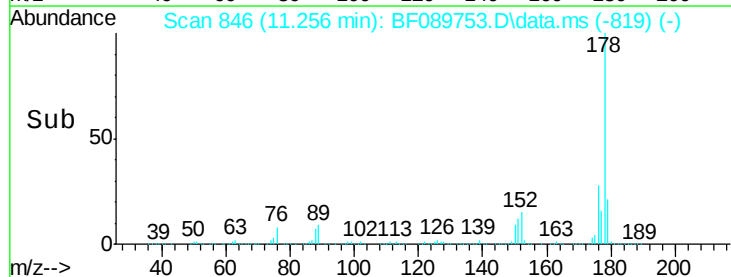
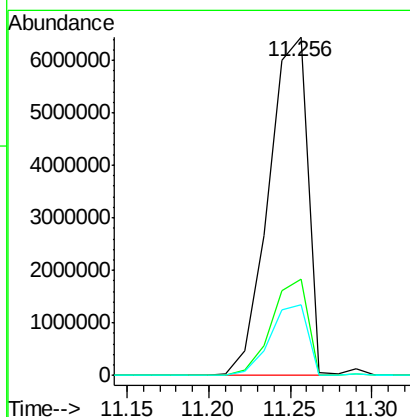
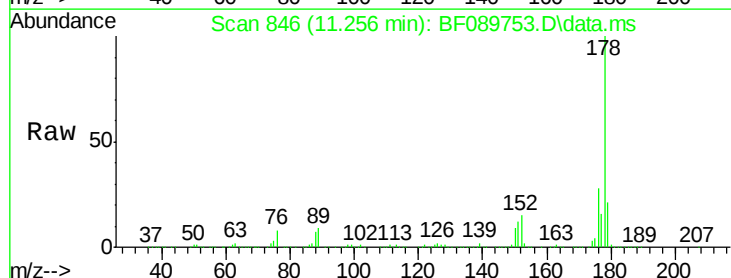
Instrument :  
BNA\_F  
ClientSampleId :  
9536

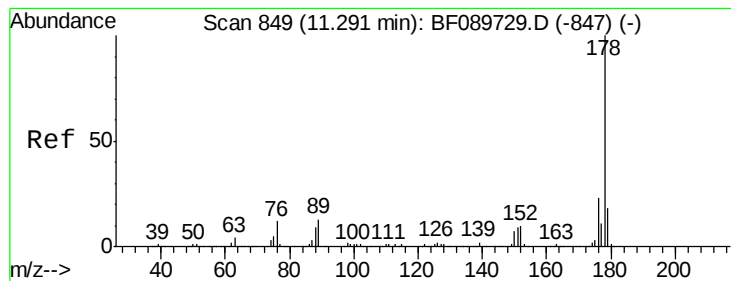
Tot Ion:284 Resp: 1286204  
Ion Ratio Lower Upper  
284 100  
142 45.4 17.4 26.2#  
249 31.6 22.8 34.2



#70  
Phenanthrene  
Concen: 91.14 ng  
RT: 11.256 min Scan# 846  
Delta R.T. 0.012 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:178 Resp:10749921  
Ion Ratio Lower Upper  
178 100  
176 28.3 16.4 24.6#  
179 20.7 12.5 18.7#





#71

Anthracene

Concen: 87.22 ng

RT: 11.256 min Scan# 84

Delta R.T. -0.034 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

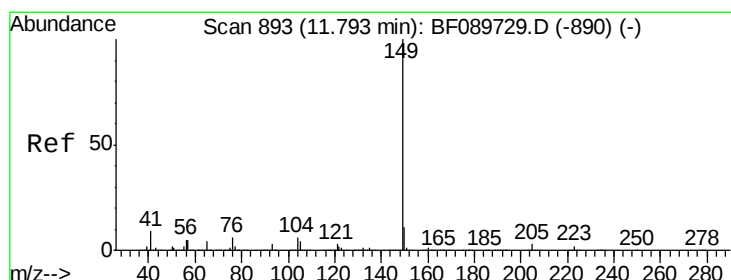
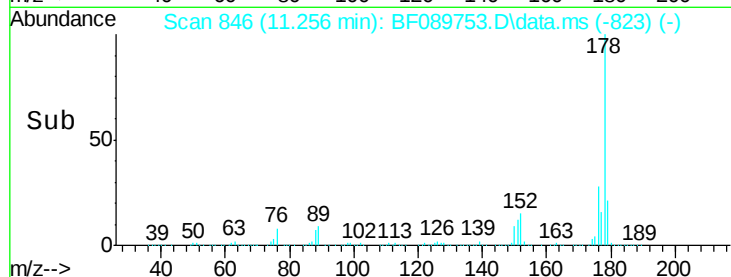
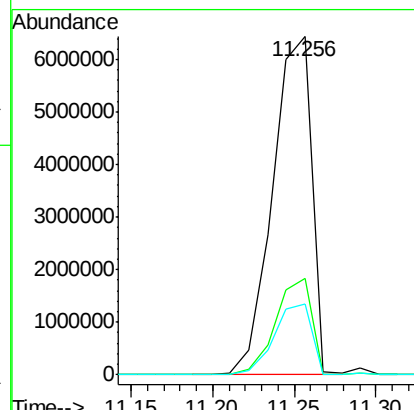
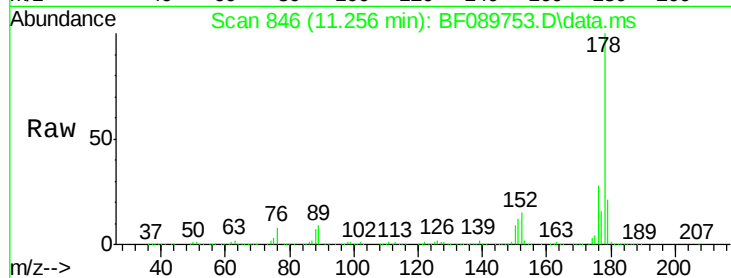
Tot Ion:178 Resp:10749921

Ion Ratio Lower Upper

178 100

176 28.3 16.4 24.6#

179 20.7 13.1 19.7#



#73

Di-n-butylphthalate

Concen: 63.79 ng

RT: 11.805 min Scan# 894

Delta R.T. 0.012 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

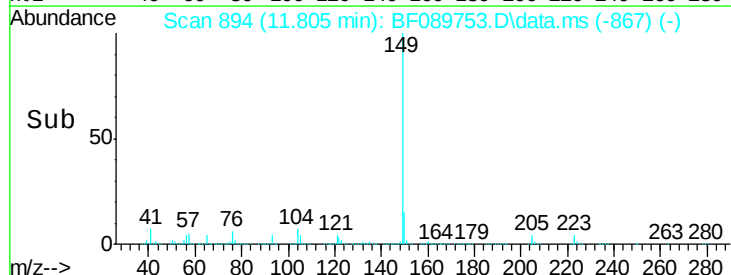
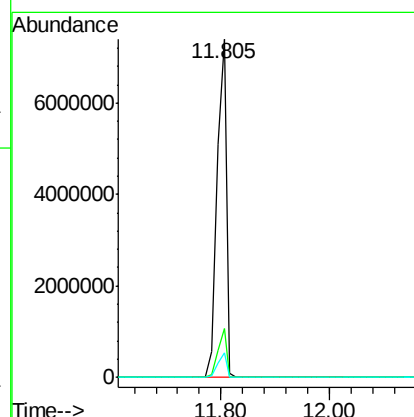
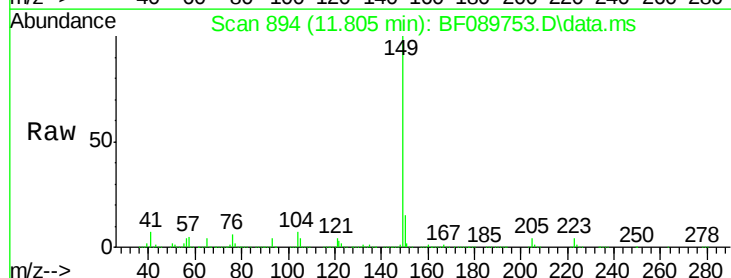
Tgt Ion:149 Resp: 9060081

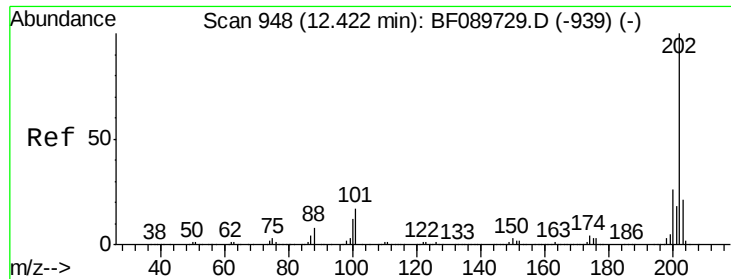
Ion Ratio Lower Upper

149 100

150 14.5 7.9 11.9#

104 7.3 4.3 6.5#





#74

Fluoranthene

Concen: 99.66 ng

RT: 12.662 min Scan# 96

Delta R.T. 0.240 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

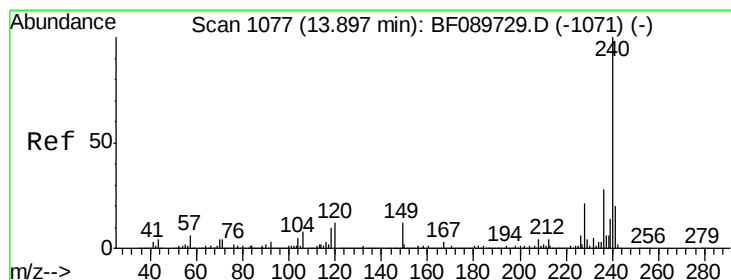
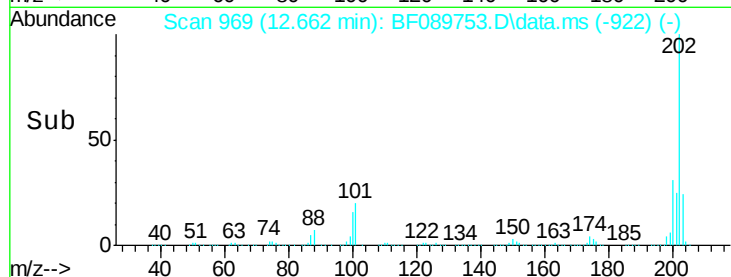
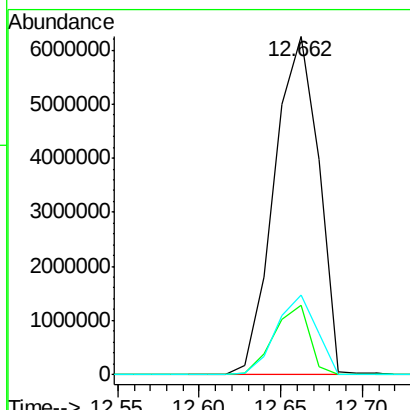
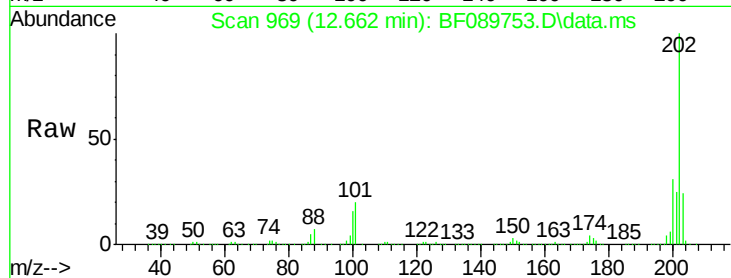
Tot Ion:202 Resp:11811291

Ion Ratio Lower Upper

202 100

101 20.4 0.0 31.2

203 23.6 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.919 min Scan# 1079

Delta R.T. 0.023 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

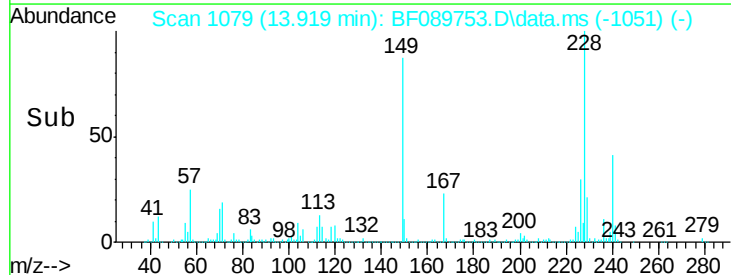
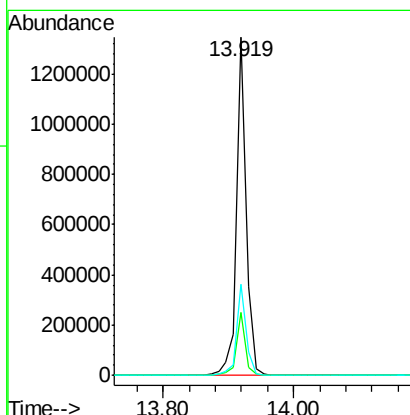
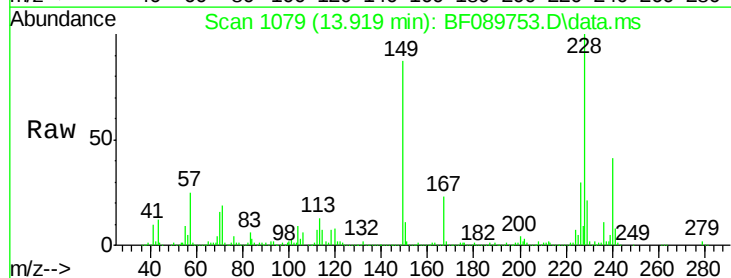
Tgt Ion:240 Resp: 1360216

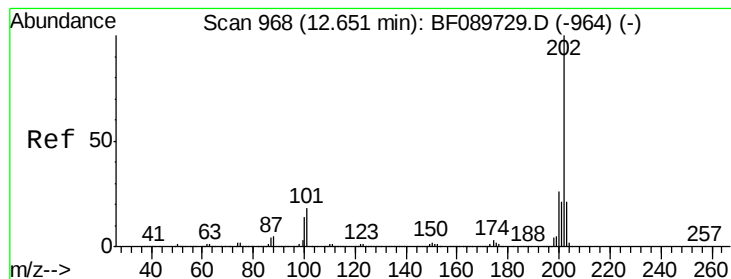
Ion Ratio Lower Upper

240 100

120 18.6 8.3 12.5#

236 26.8 21.3 31.9





#77

Pvrene

Concen: 133.32 ng

RT: 12.662 min Scan# 96

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

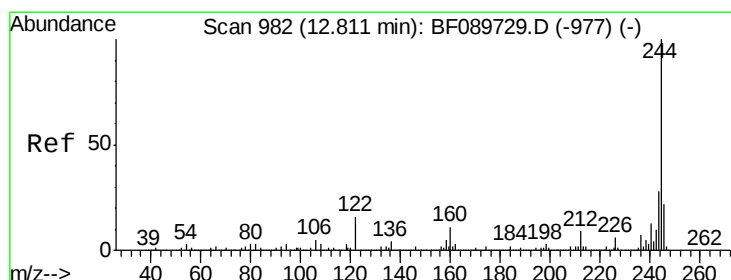
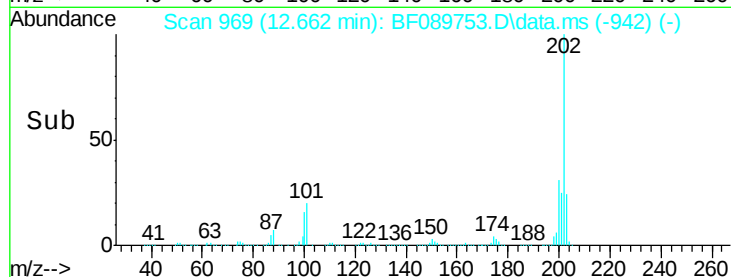
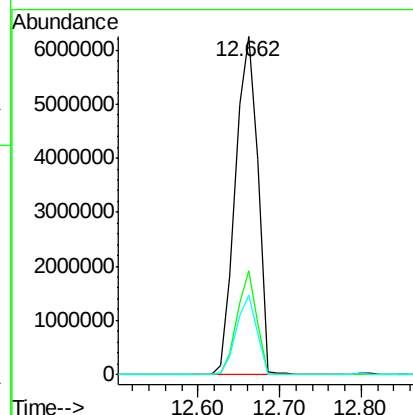
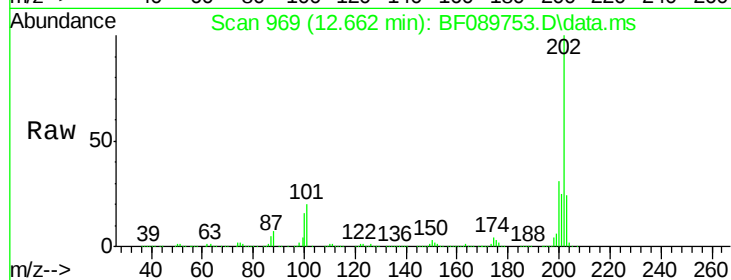
Instrument :

BNA\_F

ClientSampleId :  
9536

Tot Ion:202 Resp:11867572

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 30.6  | 17.8  | 26.6# |
| 203 | 23.6  | 14.2  | 21.4# |



#78

Terphenyl-d14

Concen: 110.85 ng

RT: 12.811 min Scan# 982

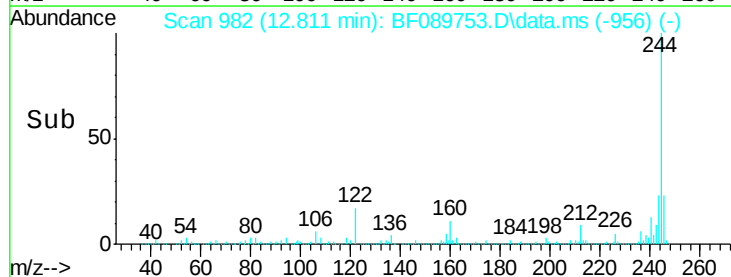
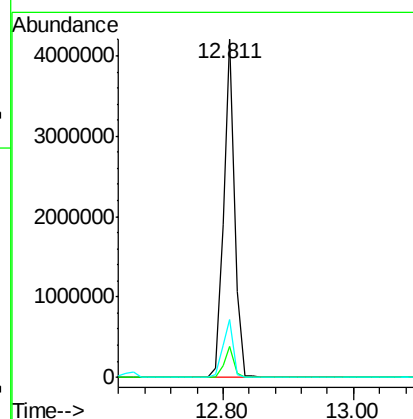
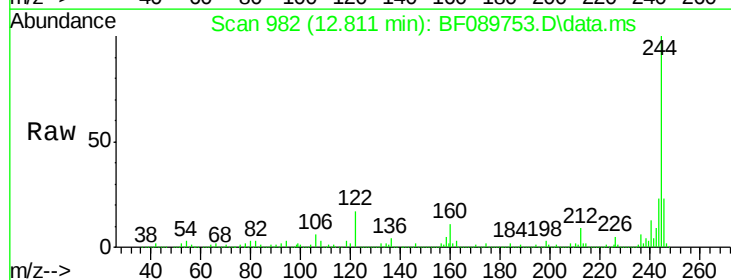
Delta R.T. 0.001 min

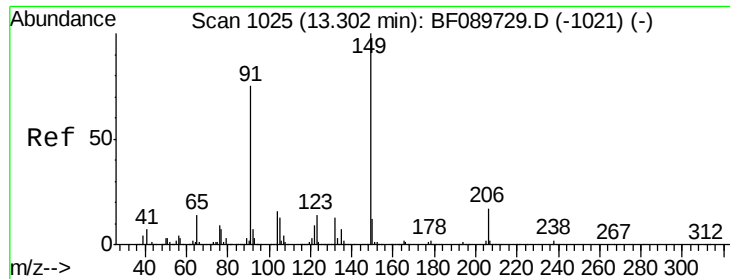
Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Tgt Ion:244 Resp: 5047190

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.3   | 6.3   | 9.5   |
| 122 | 17.0  | 12.0  | 18.0  |

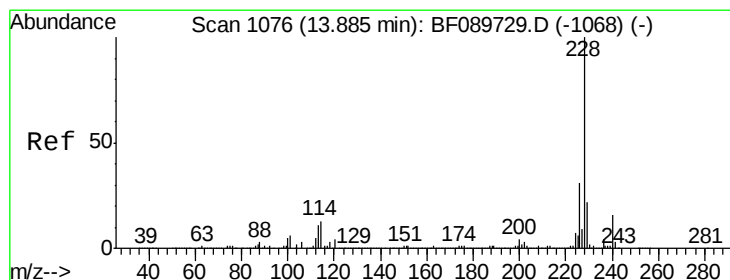
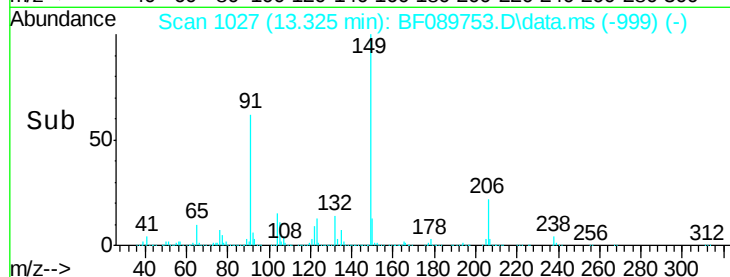
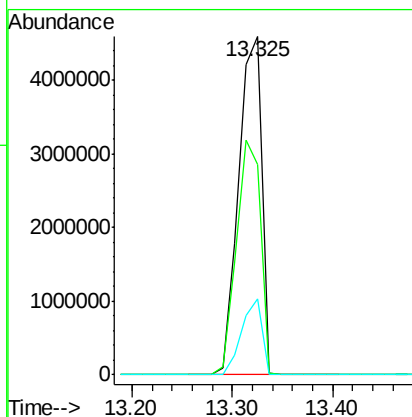
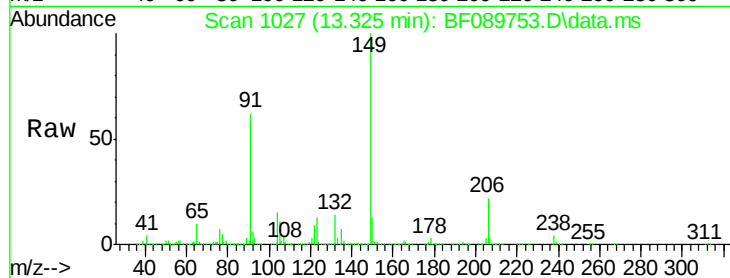




#79  
Butylbenzylphthalate  
Concen: 164.75 ng  
RT: 13.325 min Scan# 1025  
Delta R.T. 0.023 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

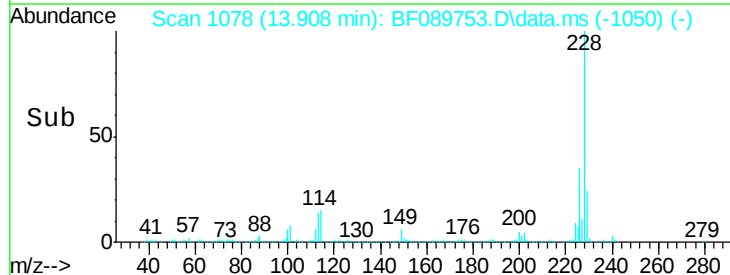
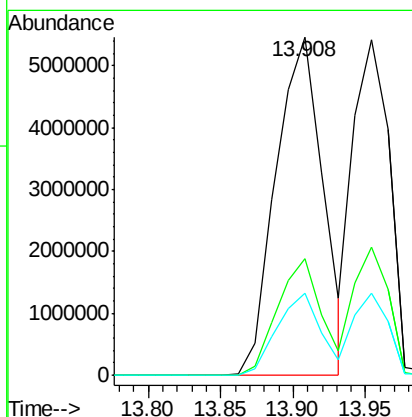
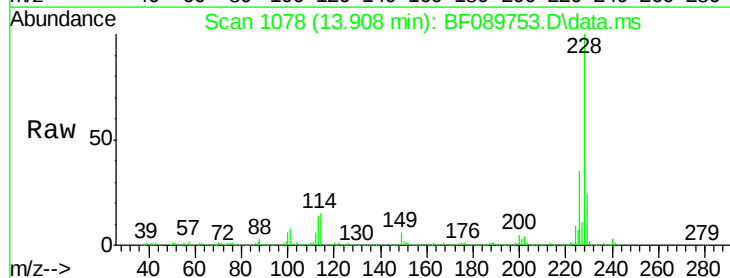
Instrument :  
BNA\_F  
ClientSampleId :  
9536

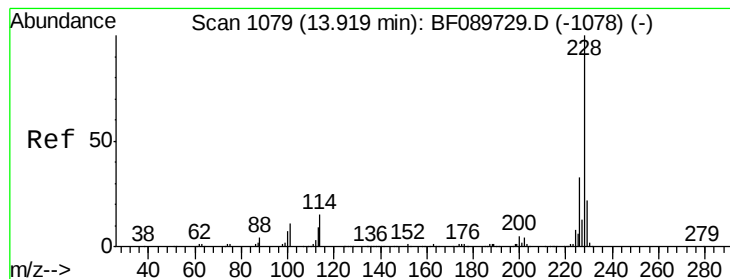
Tot Ion:149 Resp: 7356870  
Ion Ratio Lower Upper  
149 100  
91 62.2 50.7 76.1  
206 22.2 15.5 23.3



#80  
Benzo(a)anthracene  
Concen: 155.80 ng  
RT: 13.908 min Scan# 1078  
Delta R.T. 0.023 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:228 Resp:12311998  
Ion Ratio Lower Upper  
228 100  
226 34.6 23.2 34.8  
229 24.3 16.2 24.4





#82

Chrysene

Concen: 173.10 ng

RT: 13.908 min Scan# 1079

Delta R.T. -0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

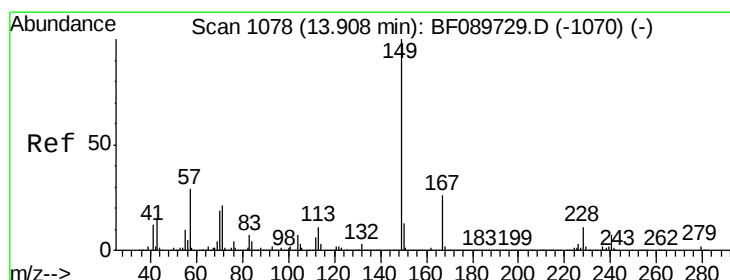
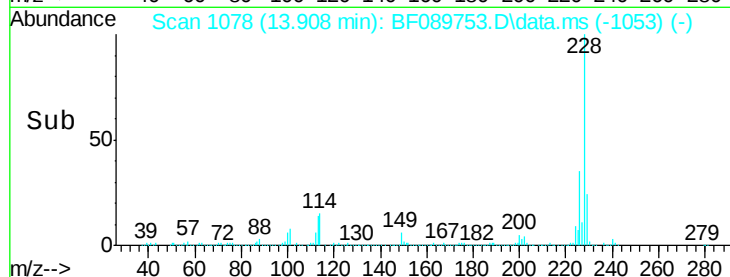
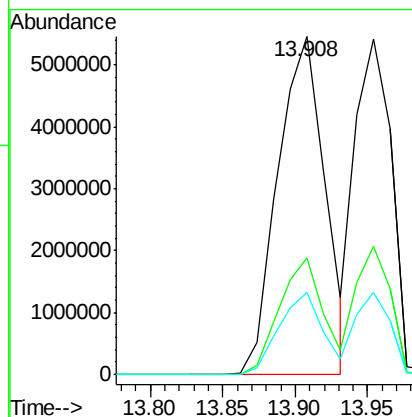
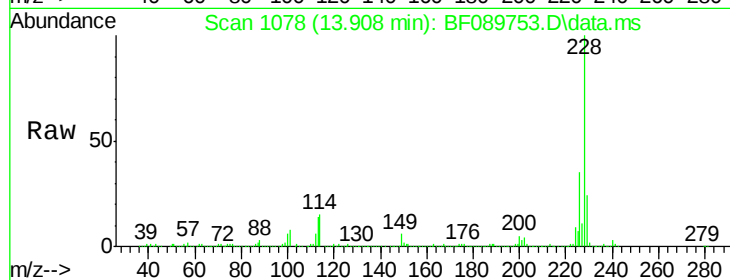
Tot Ion:228 Resp:12311998

Ion Ratio Lower Upper

228 100

226 34.6 25.4 38.0

229 24.3 16.5 24.7



#83

Bis(2-ethylhexyl)phthalate

Concen: 55.63 ng

RT: 13.919 min Scan# 1079

Delta R.T. 0.011 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

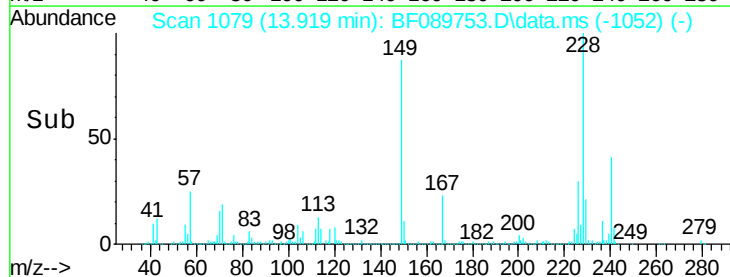
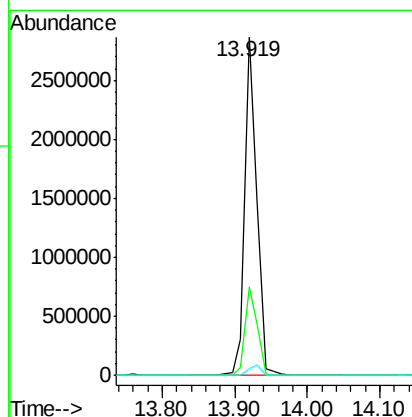
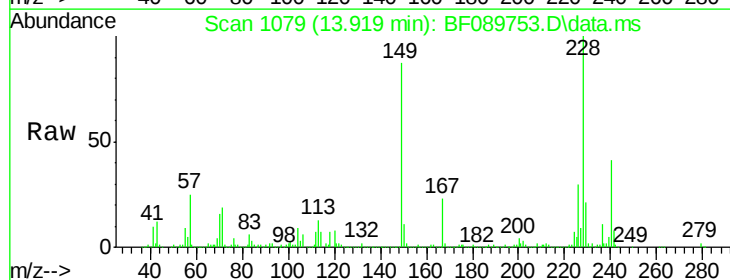
Tgt Ion:149 Resp: 3287683

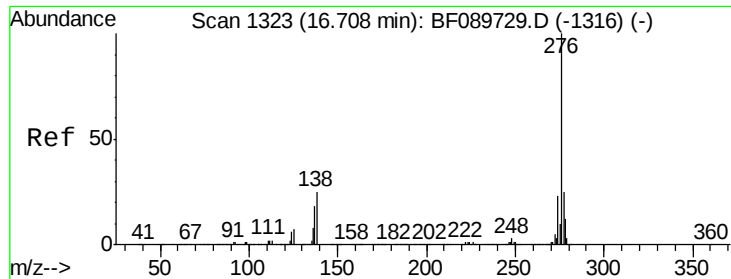
Ion Ratio Lower Upper

149 100

167 26.3 21.2 31.8

279 2.0 2.9 4.3#

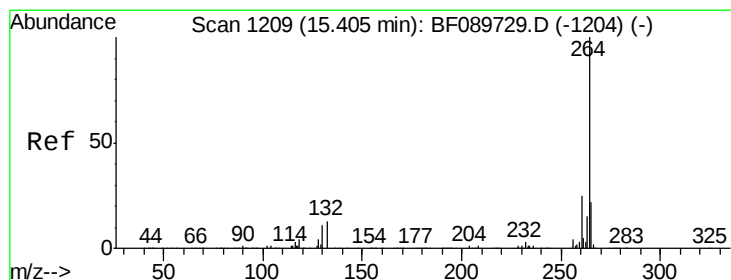
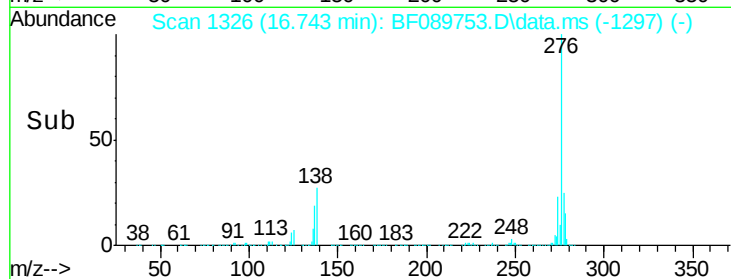
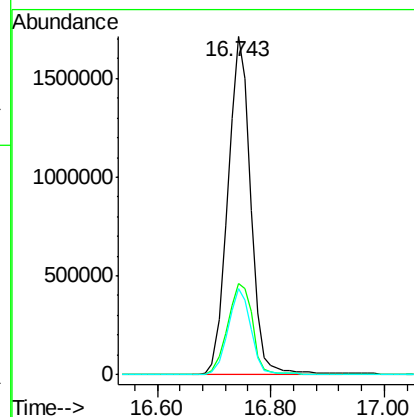
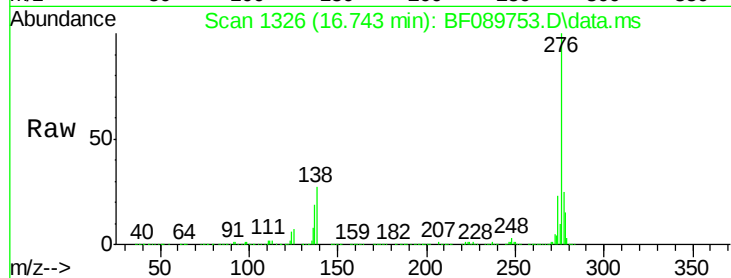




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 79.45 ng  
RT: 16.743 min Scan# 1323  
Delta R.T. 0.034 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

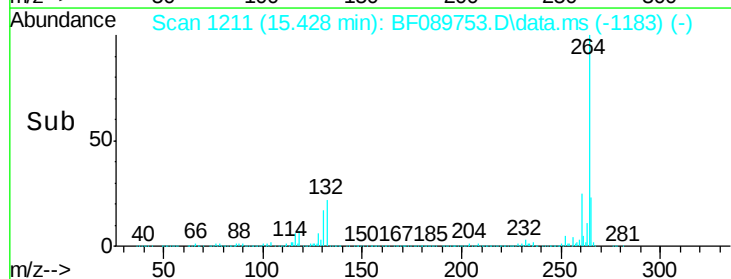
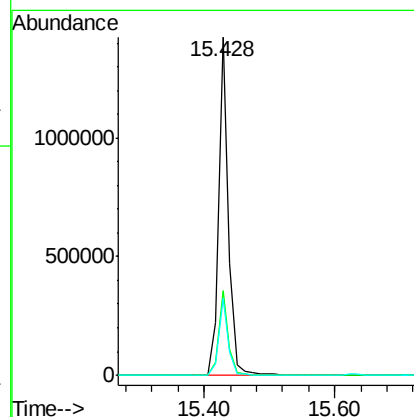
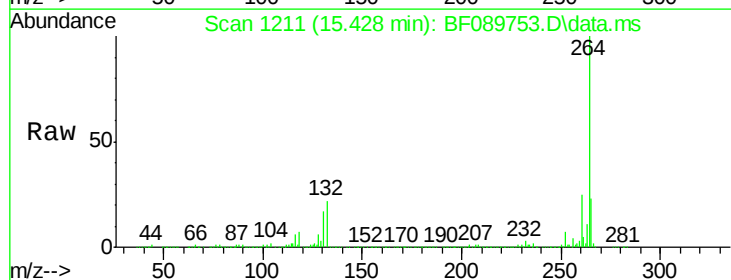
Instrument :  
BNA\_F  
ClientSampleId :  
9536

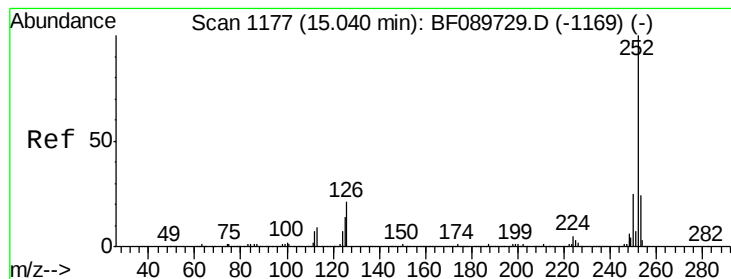
Tot Ion:276 Resp: 4814471  
Ion Ratio Lower Upper  
276 100  
138 29.4 24.6 36.8  
277 25.6 20.4 30.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.428 min Scan# 1211  
Delta R.T. 0.023 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:264 Resp: 1516027  
Ion Ratio Lower Upper  
264 100  
260 25.1 20.2 30.2  
265 22.7 17.4 26.2





#87

Benzo(b)fluoranthene

Concen: 88.35 ng

RT: 15.040 min Scan# 1177

Delta R.T. 0.034 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :  
9536

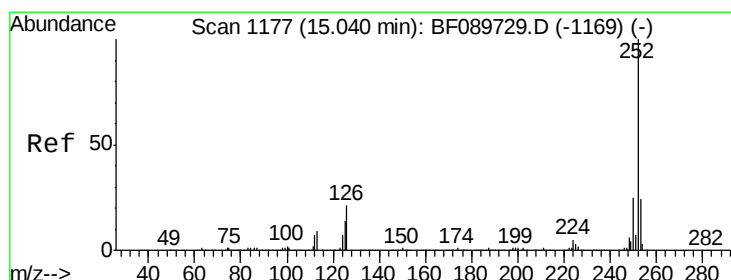
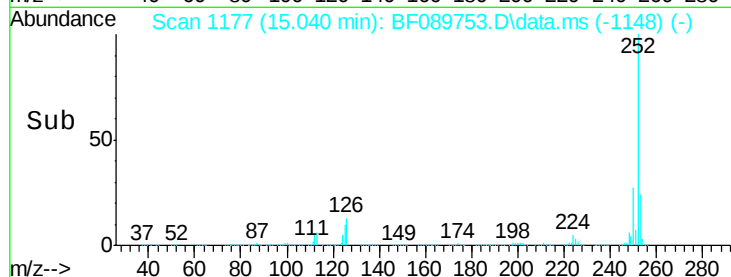
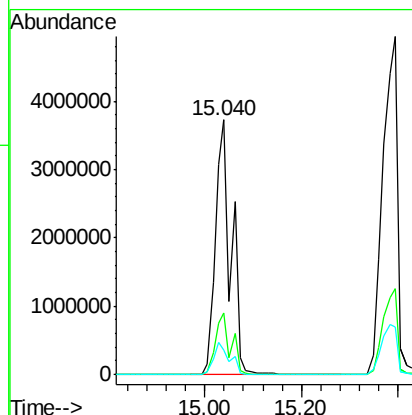
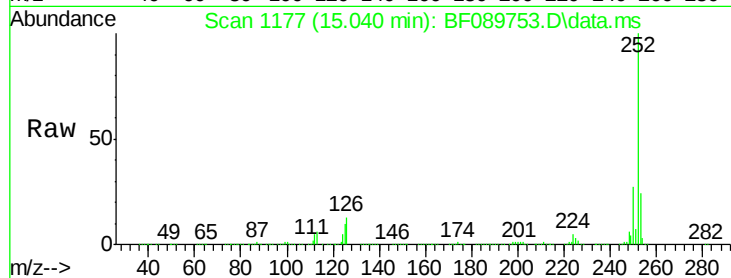
Tot Ion:252 Resp: 8486849

Ion Ratio Lower Upper

252 100

253 24.3 17.8 26.8

125 9.6 11.4 17.2#



#88

Benzo(k)fluoranthene

Concen: 107.40 ng

RT: 15.040 min Scan# 1177

Delta R.T. 0.001 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

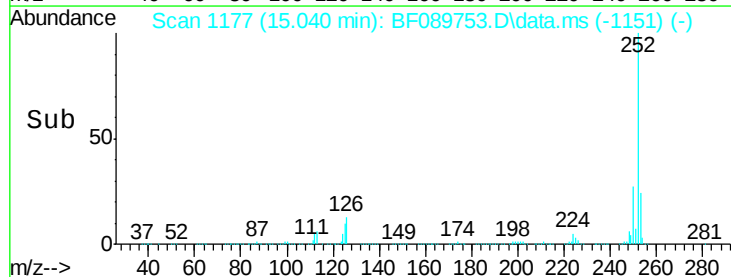
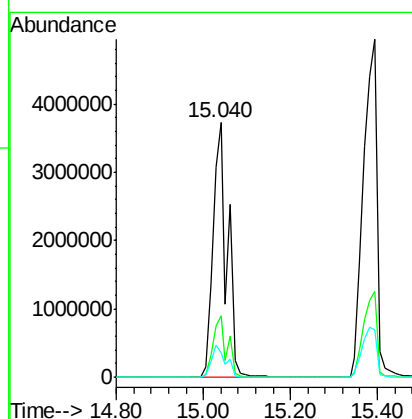
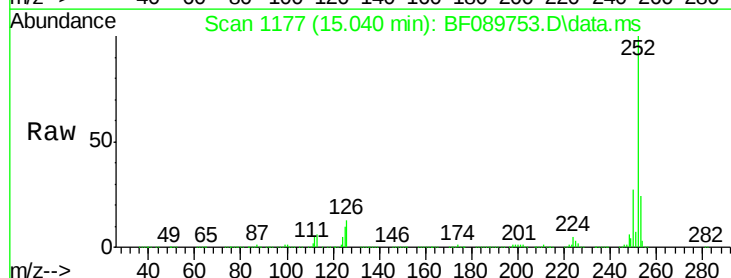
Tgt Ion:252 Resp: 8491465

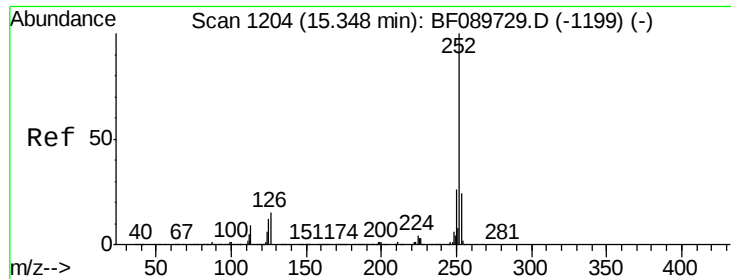
Ion Ratio Lower Upper

252 100

253 24.3 18.4 27.6

125 9.6 9.8 14.6#





#89

Benzo(a)pyrene

Concen: 134.00 ng

RT: 15.394 min Scan# 12

Delta R.T. 0.046 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

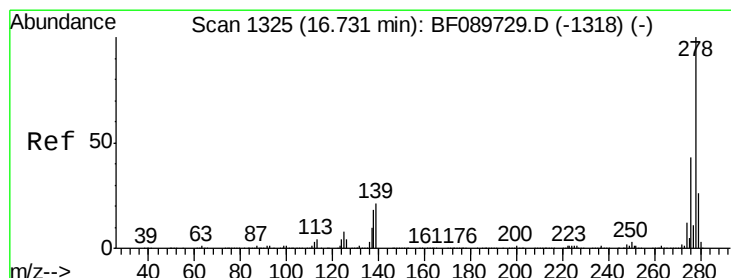
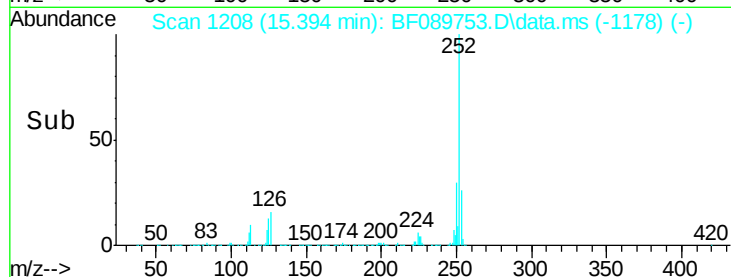
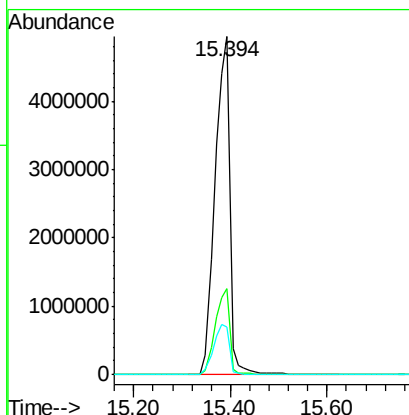
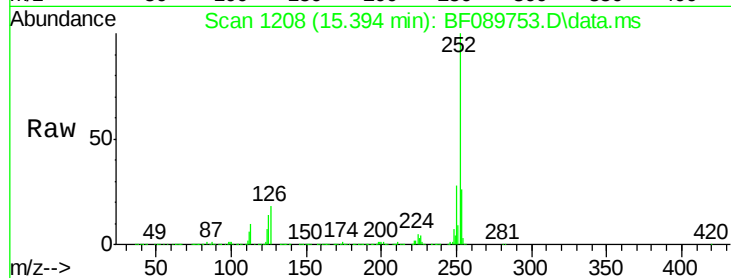
Tot Ion:252 Resp:10627376

Ion Ratio Lower Upper

252 100

253 25.6 17.8 26.8

125 14.0 11.7 17.5



#90

Dibenzo(a,h)anthracene

Concen: 51.26 ng

RT: 16.765 min Scan# 1328

Delta R.T. 0.034 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

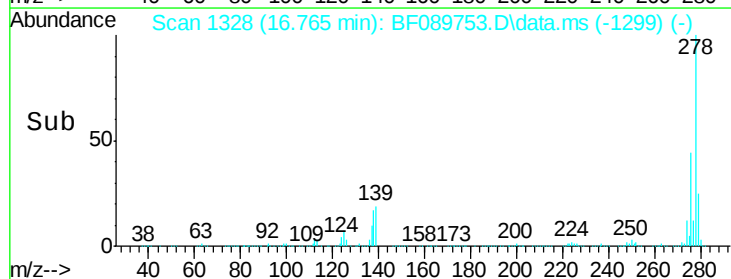
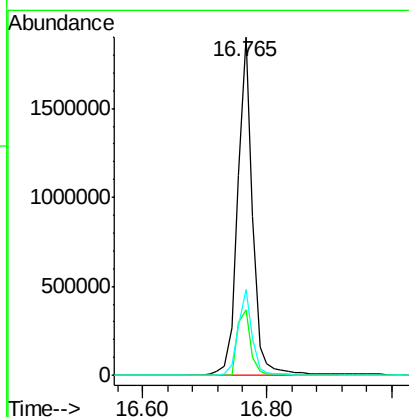
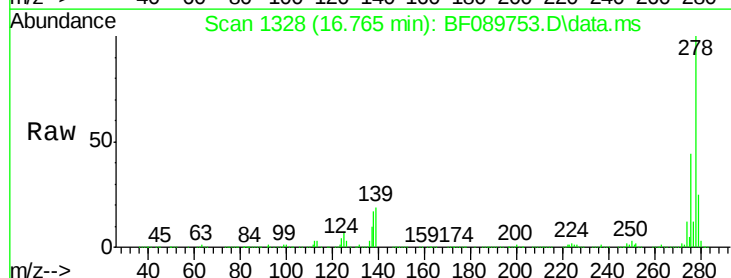
Tgt Ion:278 Resp: 3201298

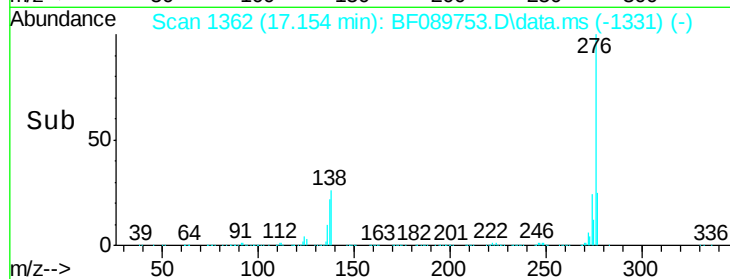
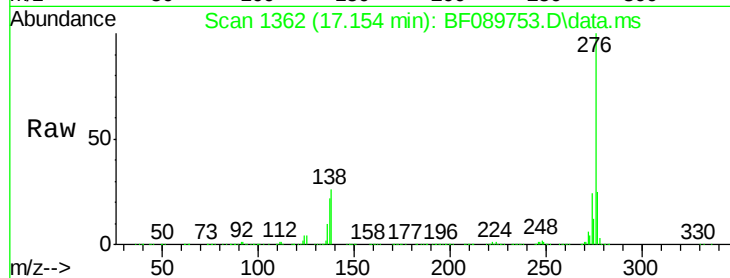
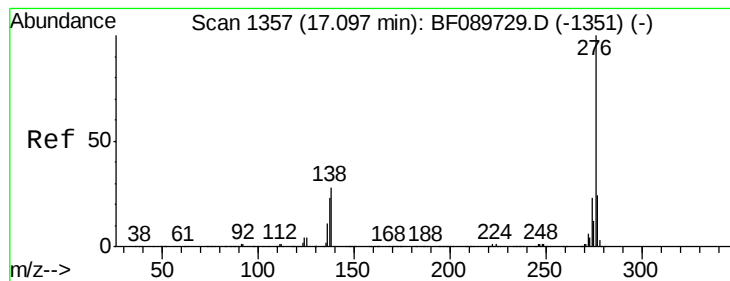
Ion Ratio Lower Upper

278 100

139 19.4 14.9 22.3

279 25.4 19.2 28.8





#91

Benzo(a,h,i)perylene

Concen: 93.21 ng

RT: 17.154 min Scan# 13

Delta R.T. 0.057 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

Tot Ion:276 Resp: 5924249

Ion Ratio Lower Upper

276 100

277 24.8 19.2 28.8

138 25.7 22.1 33.1

