

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\  
 Data File : BF097215.D  
 Acq On : 31 Jul 2017 18:37  
 Operator : SJ/JU  
 Sample : I4488-10  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-072717-D

Quant Time: Aug 01 00:57:10 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

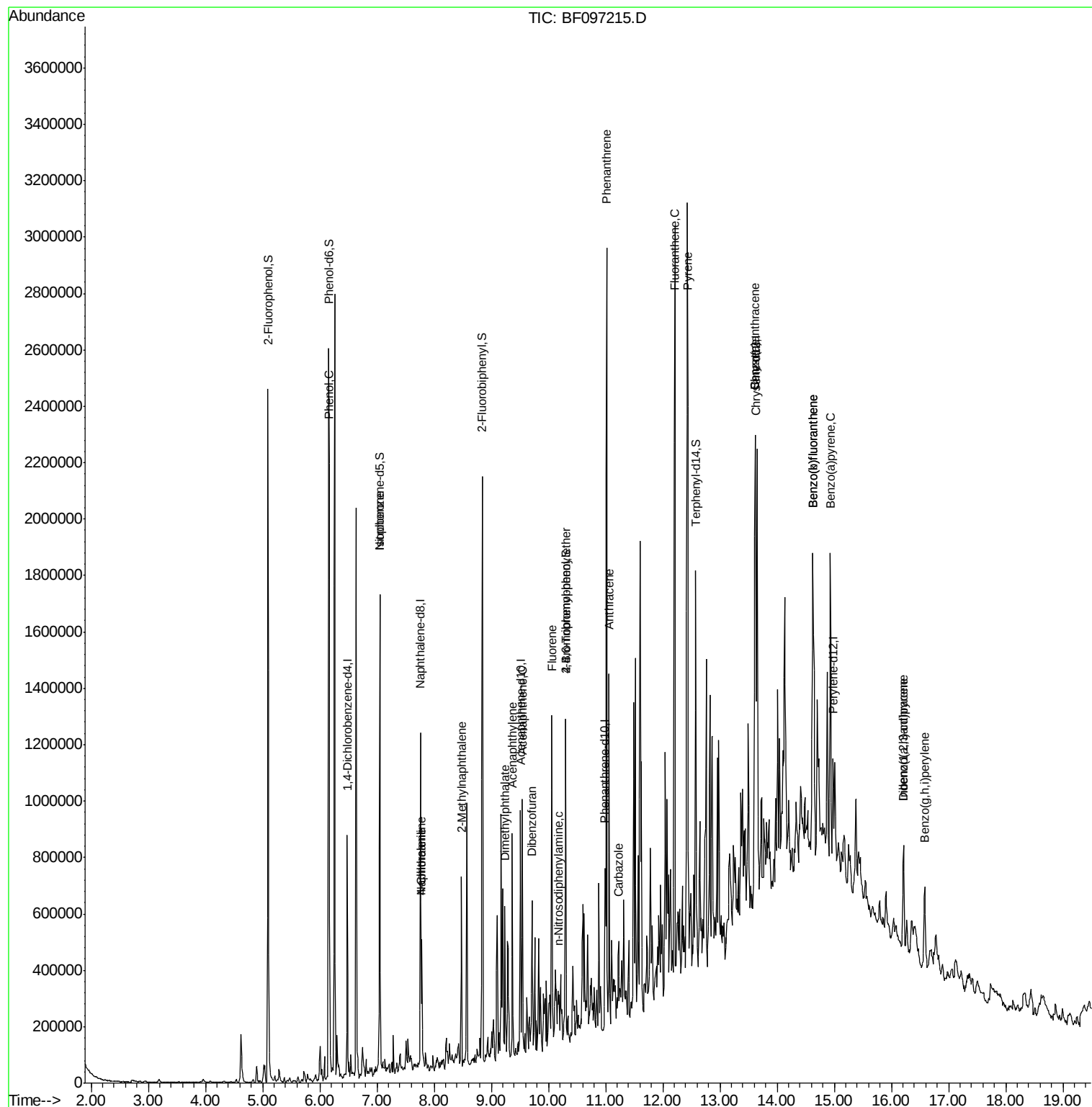
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4     | 6.48  | 152  | 120072   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8            | 7.76  | 136  | 463154   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10          | 9.51  | 164  | 149036   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10          | 10.99 | 188  | 215914   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12              | 13.63 | 240  | 179311   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12              | 14.98 | 264  | 160111   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds   |       |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.09  | 112  | 708687   | 88.97  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.16  | 99   | 934329   | 102.75 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.05  | 82   | 528107   | 66.89  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol      | 10.30 | 330  | 104337   | 88.61  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl          | 8.85  | 172  | 686308   | 78.15  | ng    | -0.02    |
| 78) Terphenyl-d14             | 12.57 | 244  | 428292   | 48.70  | ng    | -0.01    |
| Target Compounds              |       |      |          |        |       | Qvalue   |
| 10) Phenol                    | 6.17  | 94   | 53342    | 4.95   | ng    | 97       |
| 25) Isophorone                | 7.05  | 82   | 521831   | 33.75  | ng    | # 67     |
| 31) Naphthalene               | 7.79  | 128  | 199479   | 9.14   | ng    | 98       |
| 33) 4-Chloroaniline           | 7.78  | 127  | 26614    | 3.00   | ng    | # 29     |
| 37) 2-Methylnaphthalene       | 8.47  | 142  | 158523   | 11.47  | ng    | 97       |
| 48) Acenaphthylene            | 9.37  | 152  | 227141   | 15.80  | ng    | 97       |
| 49) Dimethylphthalate         | 9.24  | 163  | 147842   | 13.06  | ng    | 100      |
| 51) Acenaphthene              | 9.54  | 154  | 188733   | 22.28  | ng    | 97       |
| 54) Dibenzofuran              | 9.72  | 168  | 108665   | 9.63   | ng    | # 94     |
| 57) Fluorene                  | 10.06 | 166  | 309253   | 36.47  | ng    | 99       |
| 65) n-Nitrosodiphenylamine    | 10.17 | 169  | 17637    | 2.35   | ng    | # 86     |
| 66) 4-Bromophenyl-phenvlether | 10.30 | 248  | 6643     | 3.08   | ng    | # 1      |
| 70) Phenanthrene              | 11.02 | 178  | 1204581  | 104.12 | ng    | 100      |
| 71) Anthracene                | 11.06 | 178  | 454531   | 38.36  | ng    | 99       |
| 72) Carbazole                 | 11.23 | 167  | 70391    | 6.04   | ng    | 98       |
| 74) Fluoranthene              | 12.21 | 202  | 1358007  | 119.82 | ng    | 99       |
| 77) Pyrene                    | 12.43 | 202  | 1542635  | 105.09 | ng    | 99       |
| 80) Benzo(a)anthracene        | 13.62 | 228  | 784601   | 67.63  | ng    | 93       |
| 82) Chrysene                  | 13.62 | 228  | 784601   | 69.26  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene    | 16.22 | 276  | 216320   | 22.27  | ng    | 95       |
| 87) Benzo(b)fluoranthene      | 14.63 | 252  | 834332   | 86.69  | ng    | # 94     |
| 88) Benzo(k)fluoranthene      | 14.63 | 252  | 834332   | 90.97  | ng    | 99       |
| 89) Benzo(a)pyrene            | 14.93 | 252  | 512589   | 58.19  | ng    | 95       |
| 90) Dibenz(a,h)anthracene     | 16.22 | 278  | 64451    | 8.92   | ng    | # 79     |
| 91) Benzo(g,h,i)perylene      | 16.58 | 276  | 208462   | 27.52  | ng    | 96       |

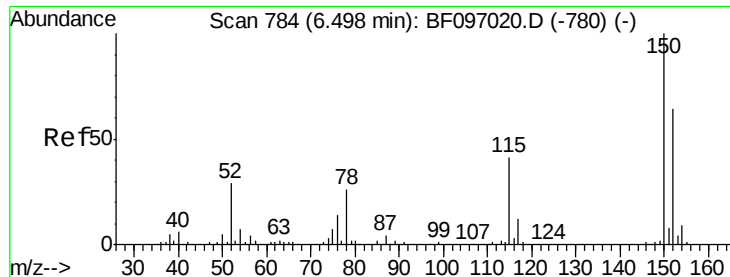
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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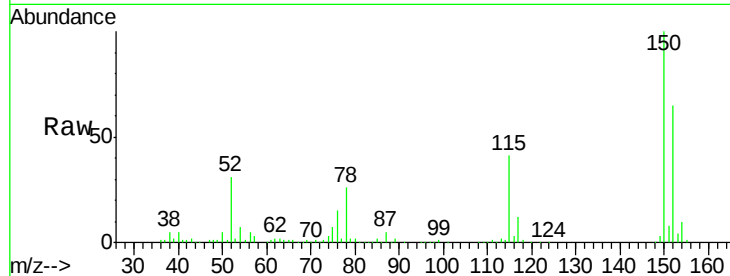


#1

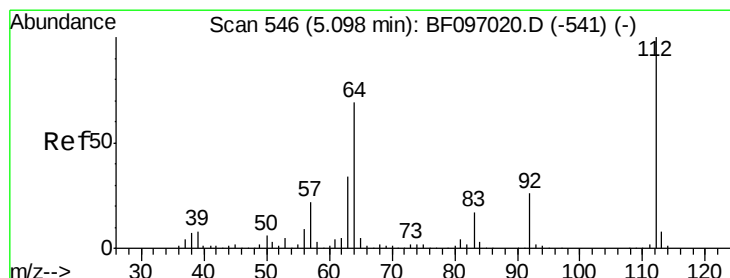
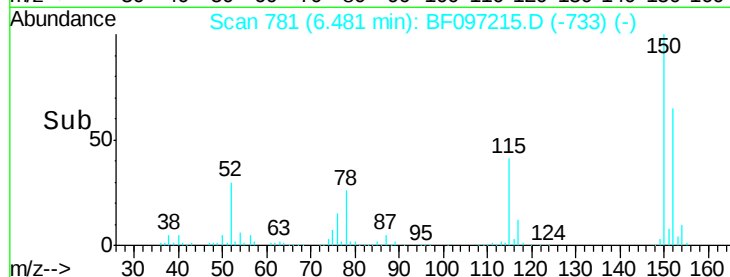
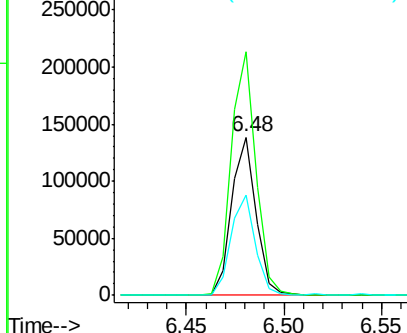
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.48 min Scan# 781  
 Delta R.T. -0.02 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-072717-D

Tot Ion:152 Resp: 120072  
 Ion Ratio Lower Upper  
 152 100  
 150 153.9 126.2 189.2  
 115 63.4 52.2 78.2



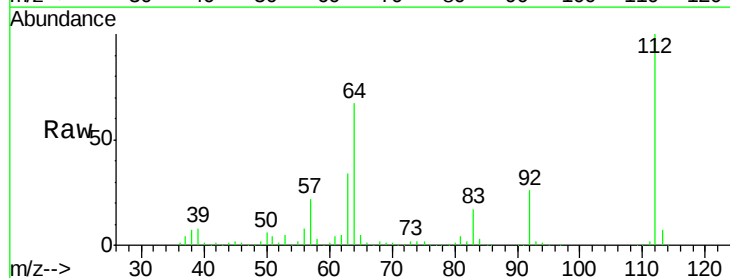
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



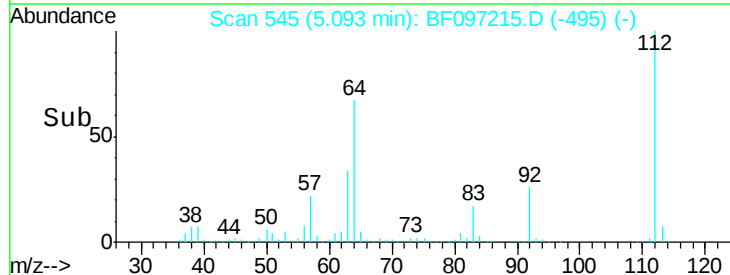
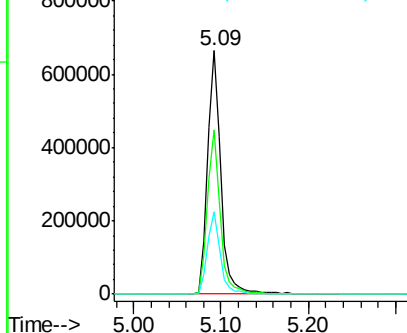
#5

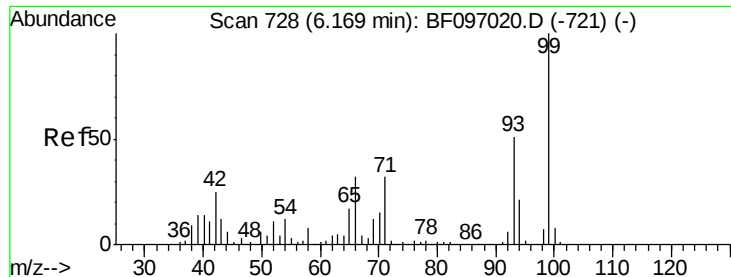
2-Fluorophenol  
 Concen: 88.97 ng  
 RT: 5.09 min Scan# 545  
 Delta R.T. -0.01 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

Tgt Ion:112 Resp: 708687  
 Ion Ratio Lower Upper  
 112 100  
 64 67.2 46.0 69.0  
 63 34.0 23.4 35.0



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





#7

Phenol-d6

Concen: 102.75 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

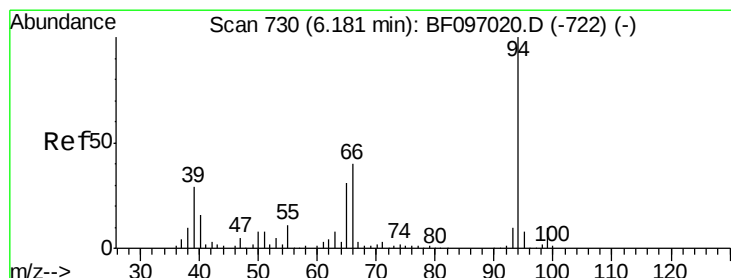
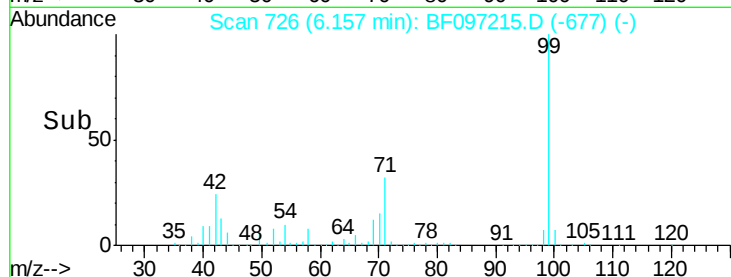
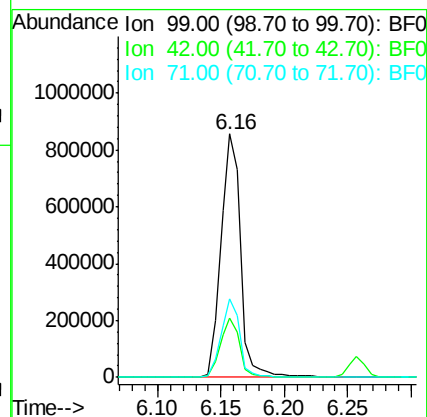
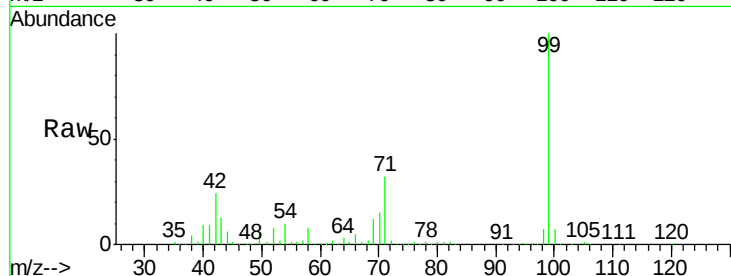
Tot Ion: 99 Resp: 934329

Ion Ratio Lower Upper

99 100

42 24.3 13.5 20.3#

71 32.2 24.5 36.7



#10

Phenol

Concen: 4.95 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

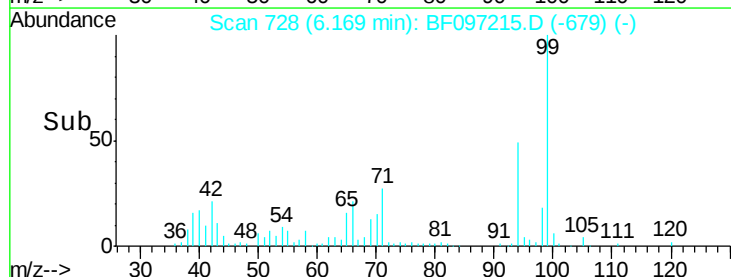
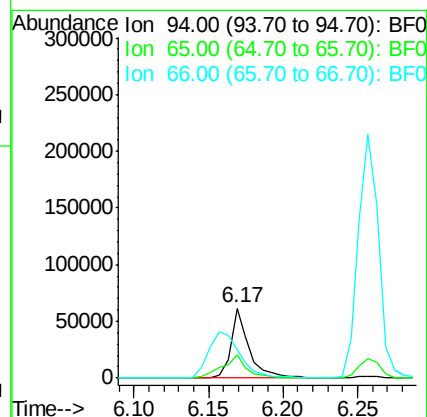
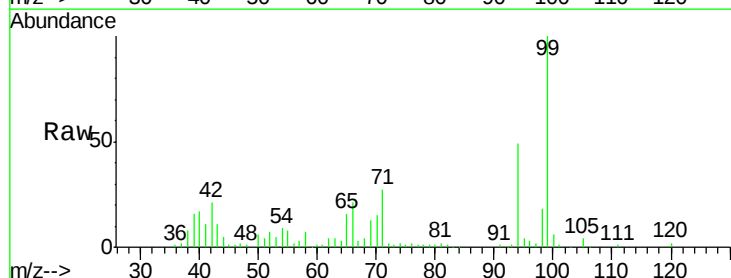
Tgt Ion: 94 Resp: 53342

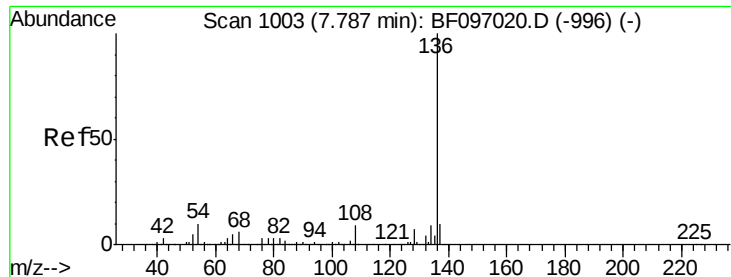
Ion Ratio Lower Upper

94 100

65 33.0 9.9 49.9

66 42.0 23.1 63.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.76 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

Tot Ion:136 Resp: 463154

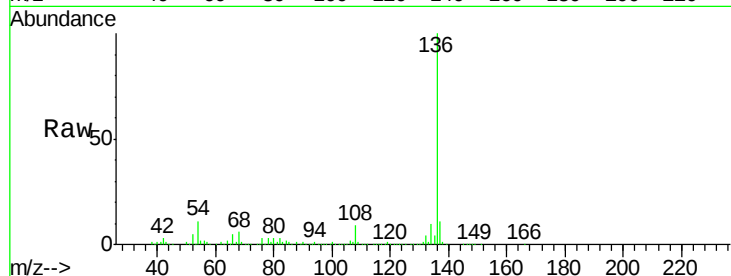
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 10.7 4.9 7.3#

68 6.2 4.1 6.1#

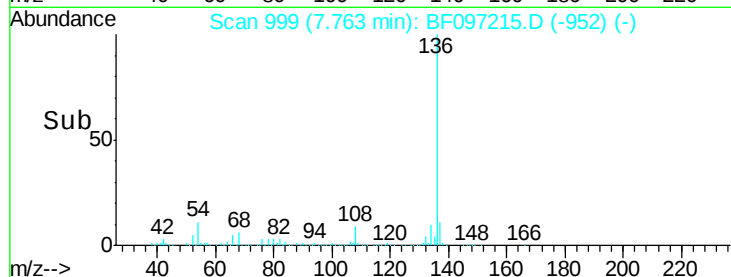


Abundance Ion 136.00 (135.70 to 136.70): E

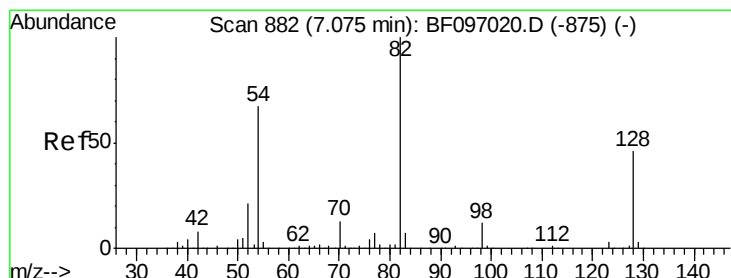
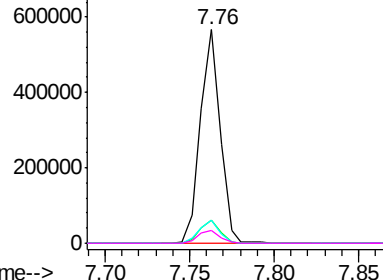
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 66.89 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

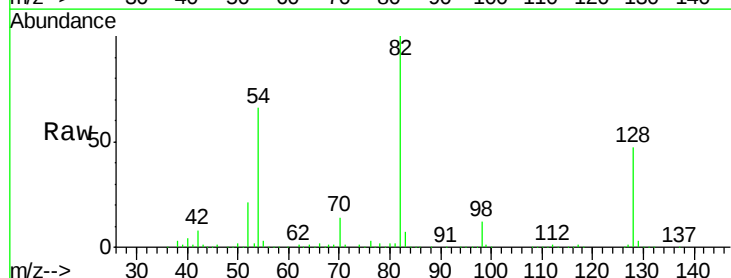
Tgt Ion: 82 Resp: 528107

Ion Ratio Lower Upper

82 100

128 46.7 34.0 51.0

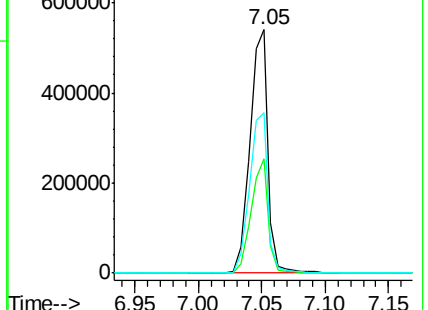
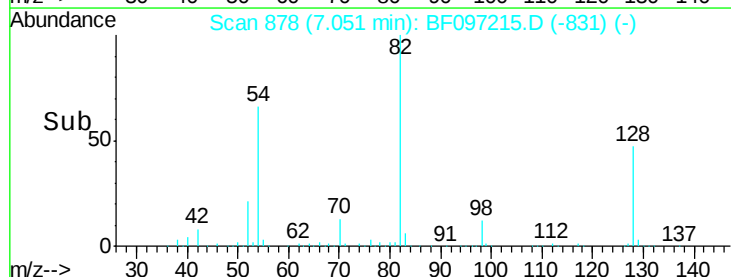
54 65.6 42.2 63.2#

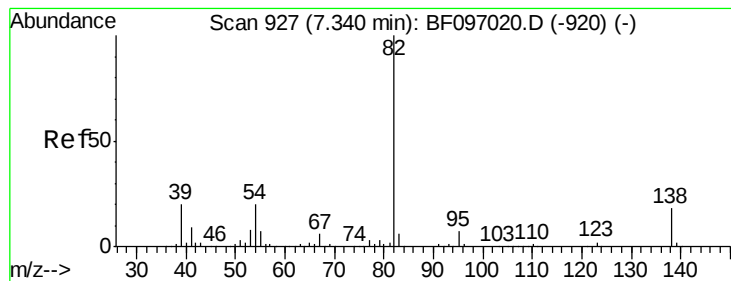


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 33.75 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.29 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

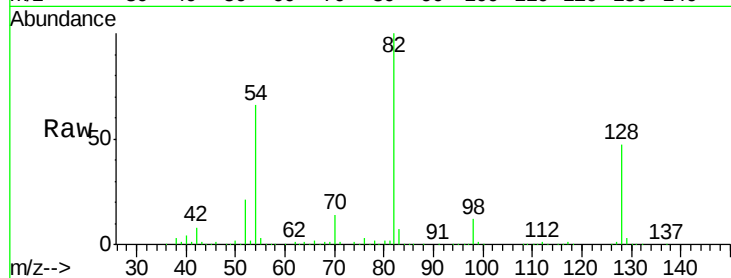
Tot Ion: 82 Resp: 521831

Ion Ratio Lower Upper

82 100

95 0.2 5.3 7.9#

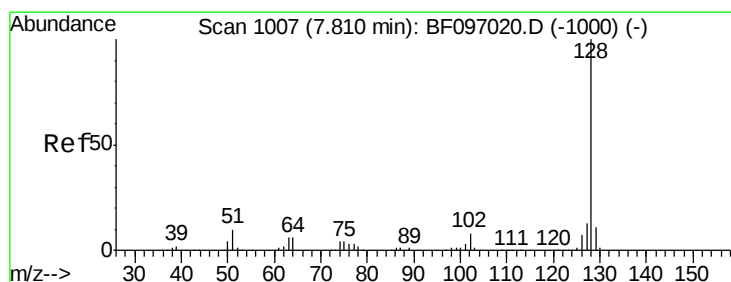
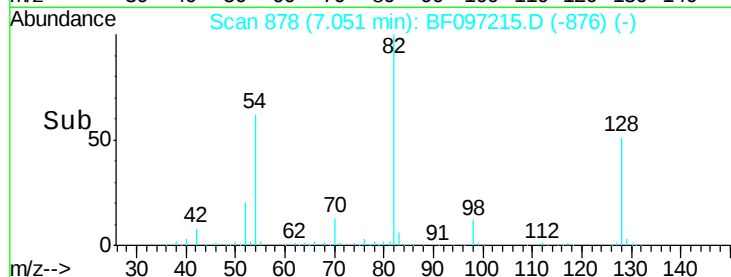
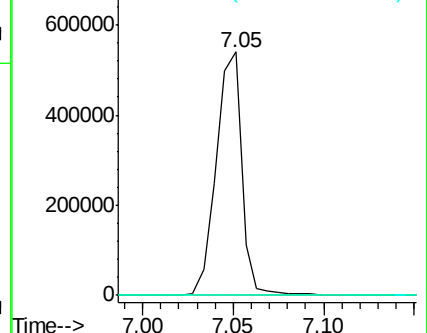
138 0.0 13.1 19.7#



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



#31

Naphthalene

Concen: 9.14 ng

RT: 7.79 min Scan# 1003

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

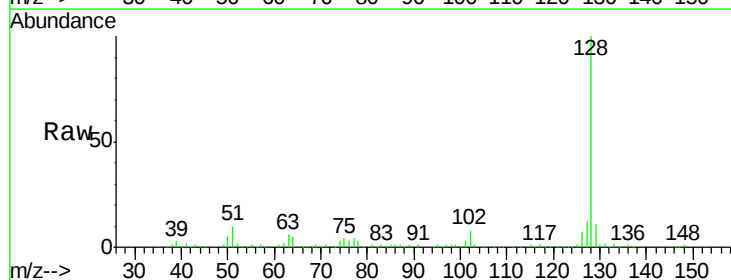
Tgt Ion: 128 Resp: 199479

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.6

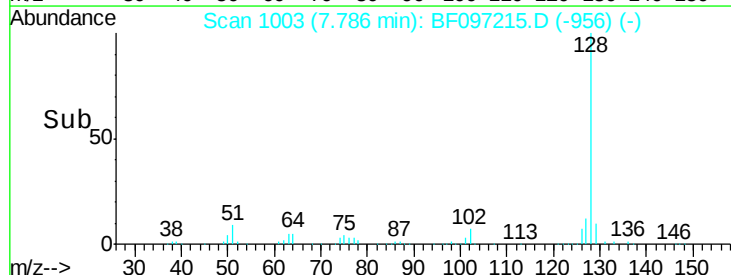
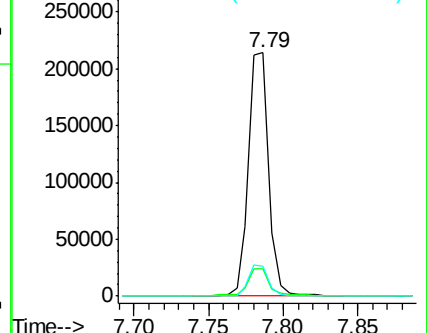
127 12.4 10.8 16.2

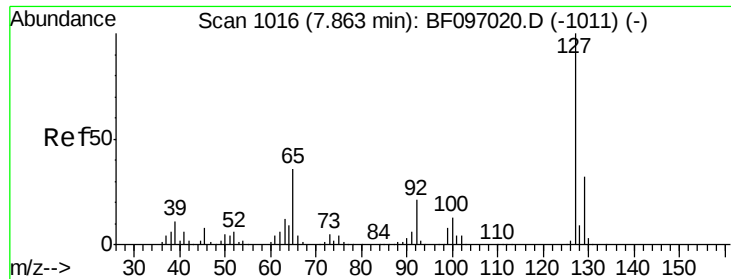


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

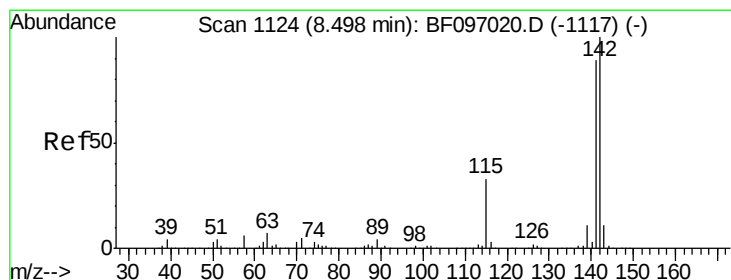
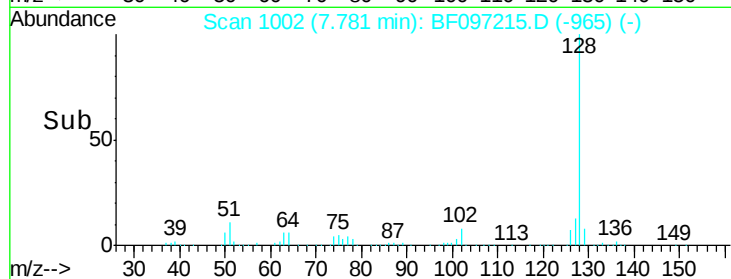
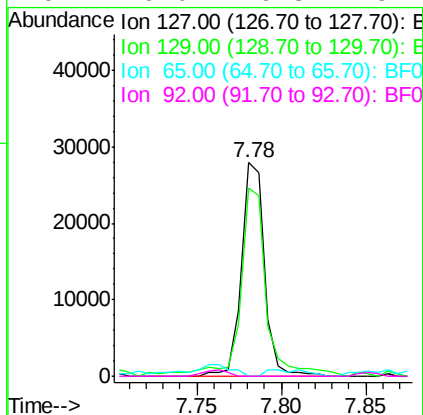
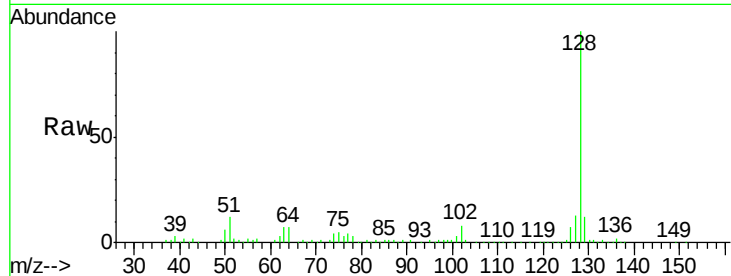




#33  
 4-Chloroaniline  
 Concen: 3.00 ng  
 RT: 7.78 min Scan# 1002  
 Delta R.T. -0.08 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

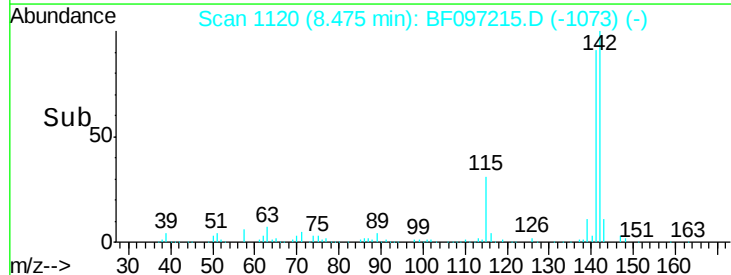
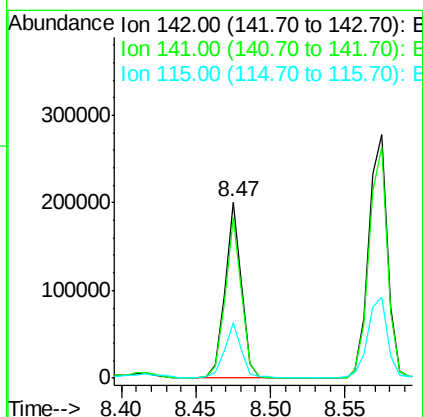
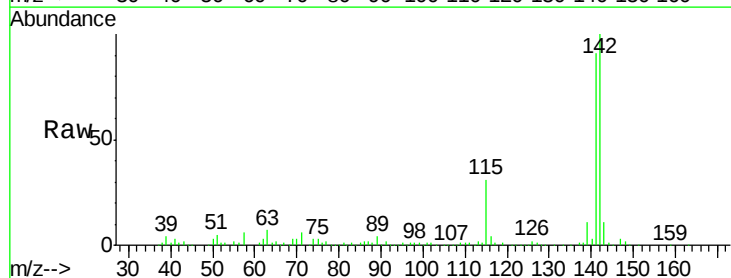
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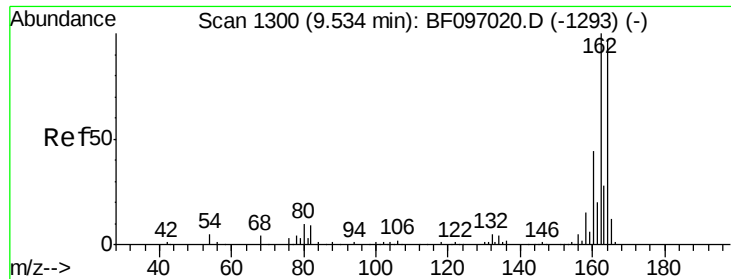
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 26614 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 87.9  | 26.2  | 39.2# |
| 65       | 0.0   | 27.8  | 41.8# |
| 92       | 0.0   | 16.8  | 25.2# |



#37  
 2-Methylnaphthalene  
 Concen: 11.47 ng  
 RT: 8.47 min Scan# 1120  
 Delta R.T. -0.02 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 158523 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 90.9  | 71.3  | 106.9  |
| 115      | 31.4  | 27.1  | 40.7   |

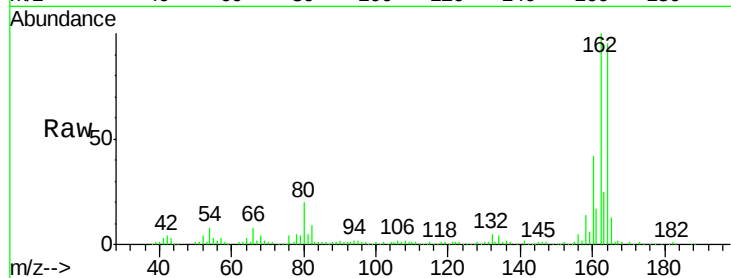




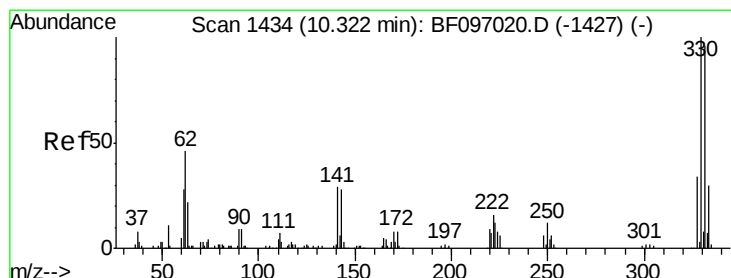
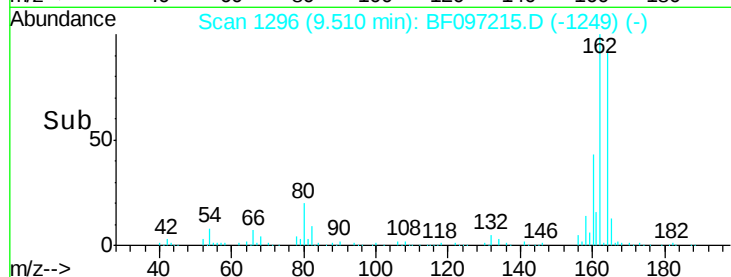
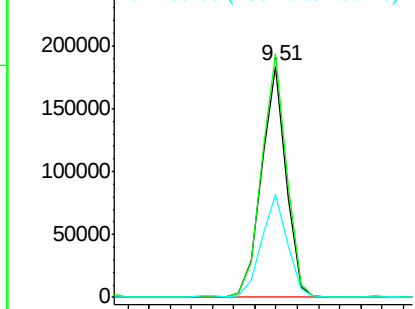
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.51 min Scan# 1296  
Delta R.T. -0.02 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

Tot Ion:164 Resp: 149036  
Ion Ratio Lower Upper  
164 100  
162 105.4 82.6 123.8  
160 44.6 36.2 54.2

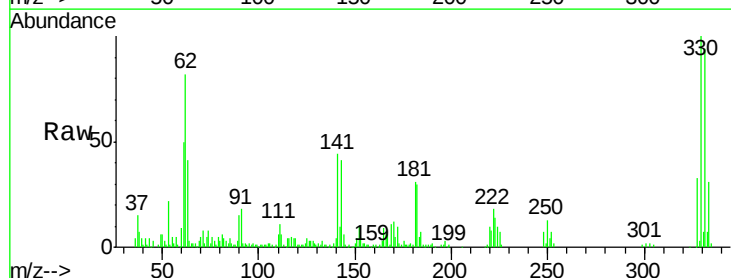


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

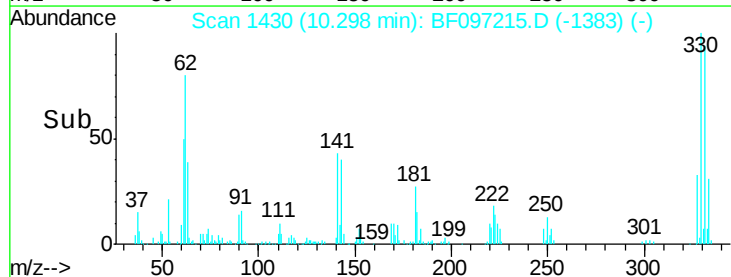
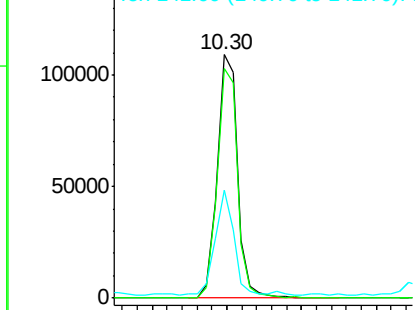


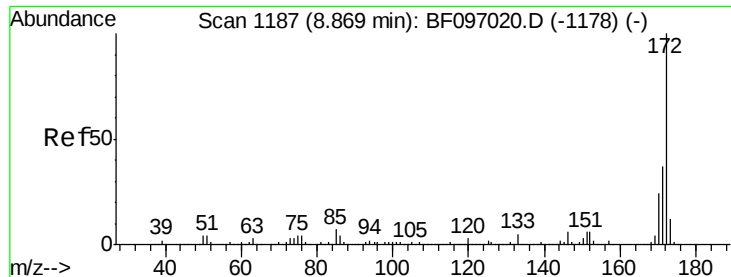
#41  
2,4,6-Tribromophenol  
Concen: 88.61 ng  
RT: 10.30 min Scan# 1430  
Delta R.T. -0.02 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Tgt Ion:330 Resp: 104337  
Ion Ratio Lower Upper  
330 100  
332 95.2 76.6 115.0  
141 38.3 31.4 47.2



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

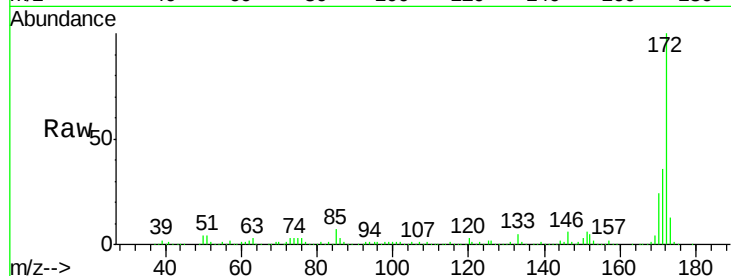




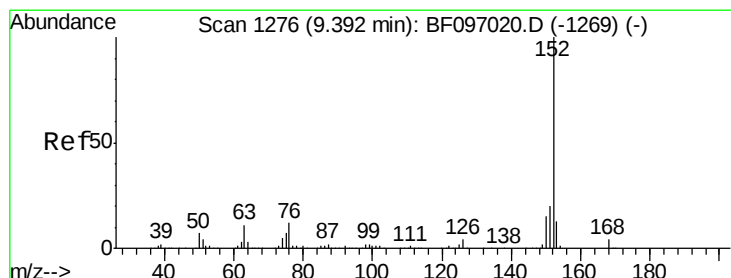
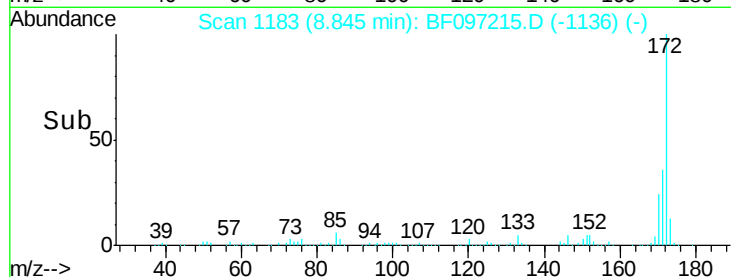
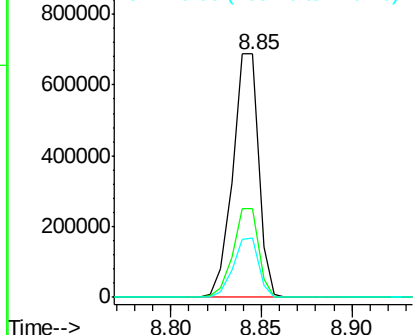
#44  
2-Fluorobiphenyl  
Concen: 78.15 ng  
RT: 8.85 min Scan# 1183  
Delta R.T. -0.02 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

Tot Ion:172 Resp: 686308  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.6 44.4  
170 24.2 19.8 29.8

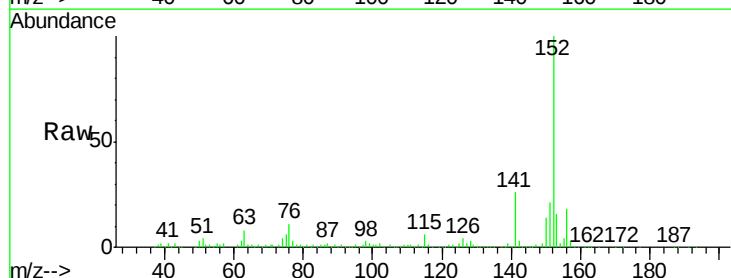


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

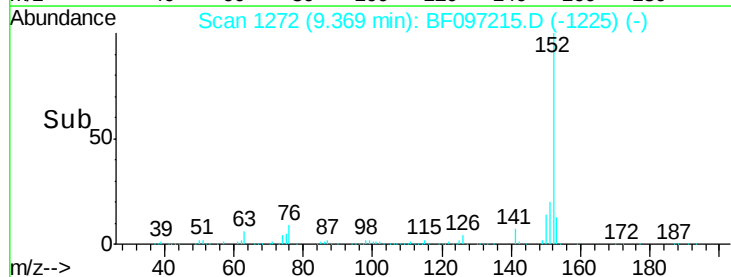
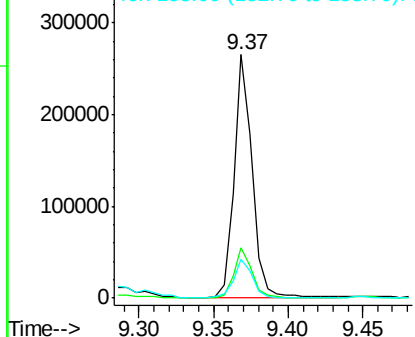


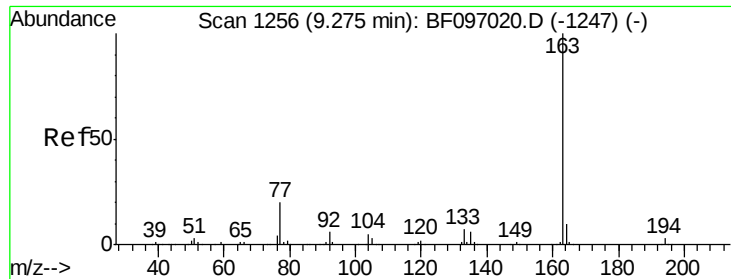
#48  
Acenaphthylene  
Concen: 15.80 ng  
RT: 9.37 min Scan# 1272  
Delta R.T. -0.02 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Tgt Ion:152 Resp: 227141  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.8 25.2  
153 15.8 10.8 16.2



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

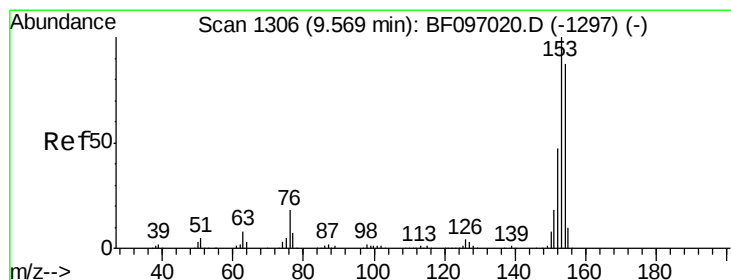
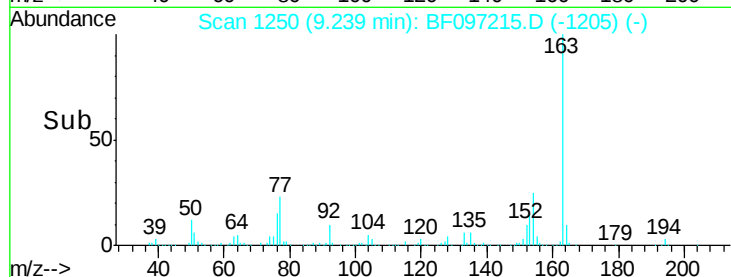
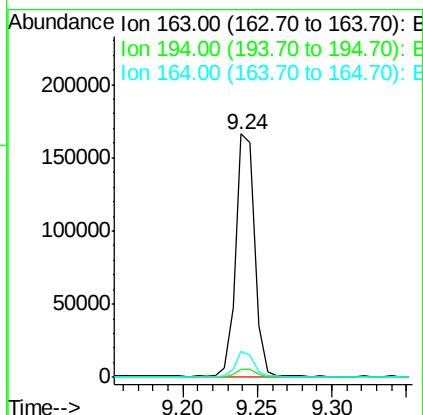
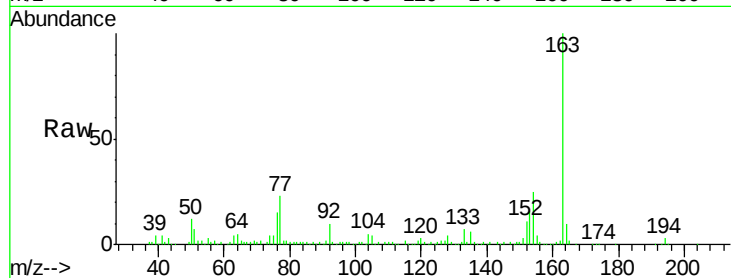




#49  
Dimethylphthalate  
Concen: 13.06 ng  
RT: 9.24 min Scan# 1250  
Delta R.T. -0.04 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

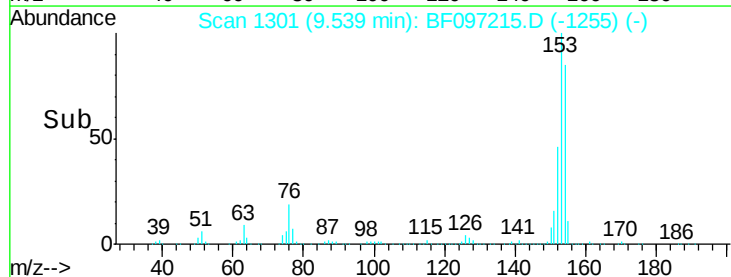
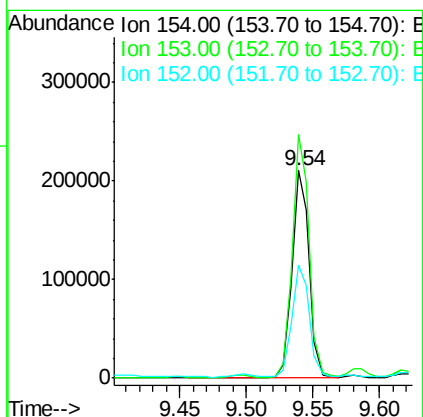
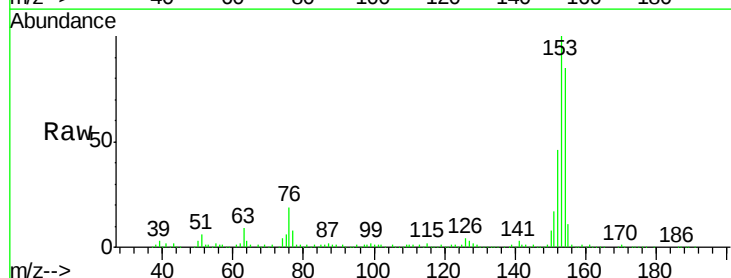
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

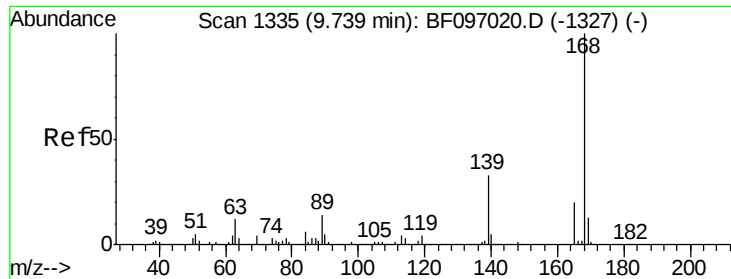
Tot Ion:163 Resp: 147842  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.6 4.0  
164 10.4 8.4 12.6



#51  
Acenaphthene  
Concen: 22.28 ng  
RT: 9.54 min Scan# 1301  
Delta R.T. -0.03 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Tgt Ion:154 Resp: 188733  
Ion Ratio Lower Upper  
154 100  
153 117.5 90.5 135.7  
152 54.3 43.6 65.4

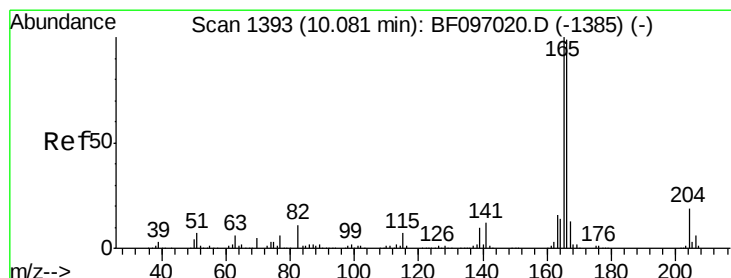
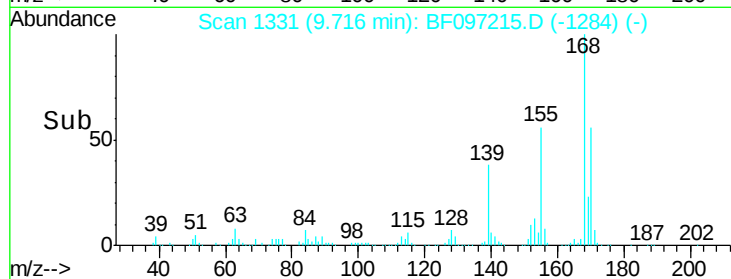
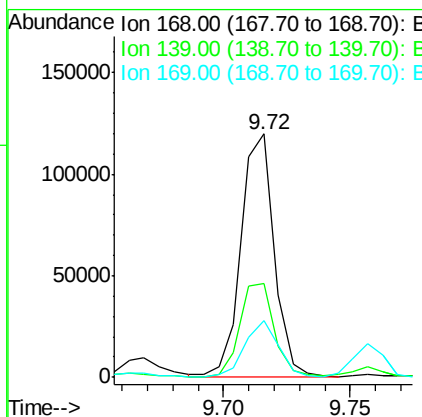
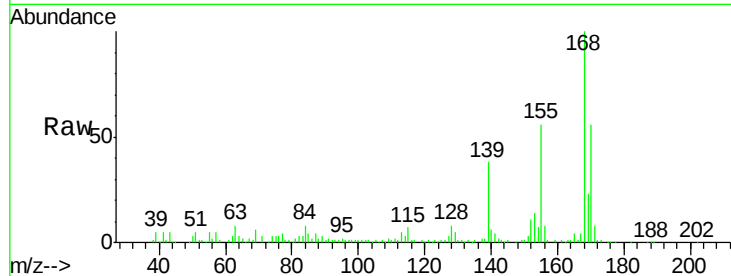




#54  
 Dibenzofuran  
 Concen: 9.63 ng  
 RT: 9.72 min Scan# 1331  
 Delta R.T. -0.02 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

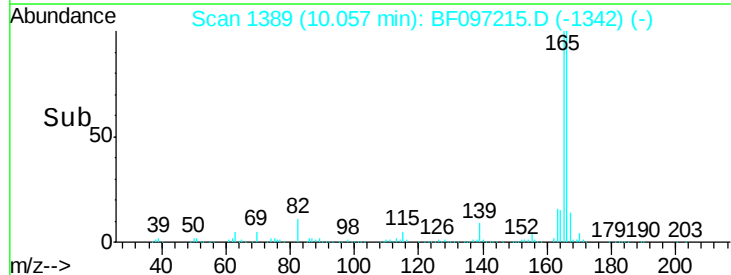
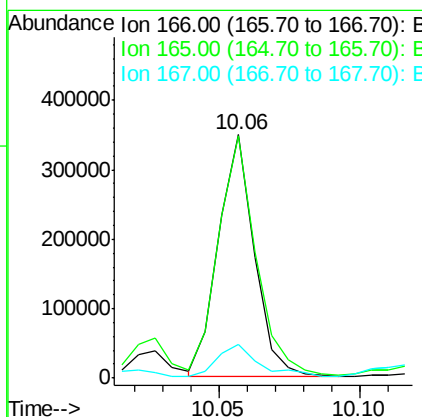
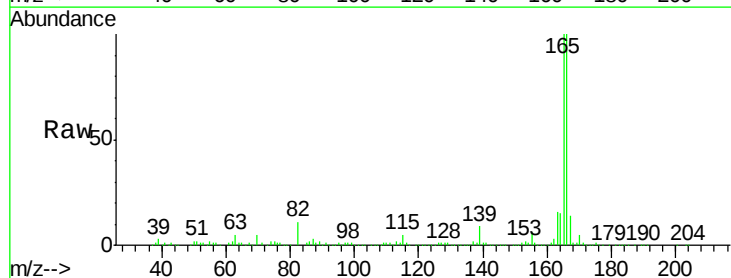
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-072717-D

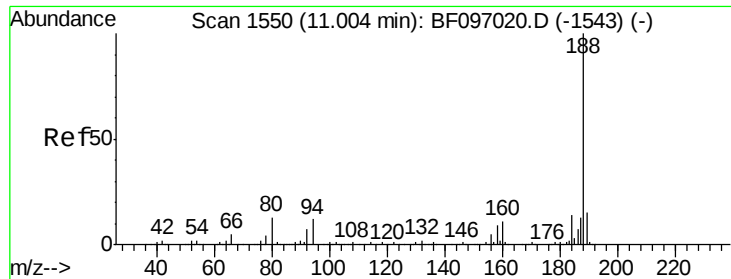
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 38.3  | 30.6  | 45.8  |
| 169     | 23.2  | 10.8  | 16.2  |



#57  
 Fluorene  
 Concen: 36.47 ng  
 RT: 10.06 min Scan# 1389  
 Delta R.T. -0.02 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.7  | 78.8  | 118.2 |
| 167     | 13.9  | 10.6  | 16.0  |

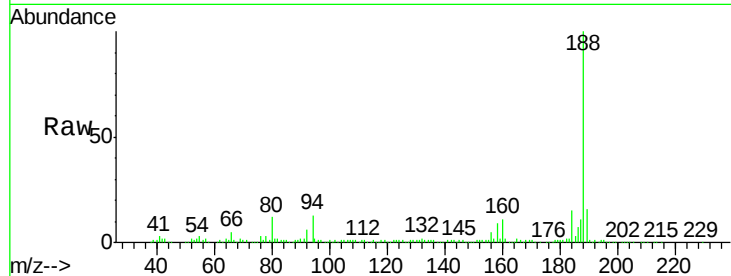




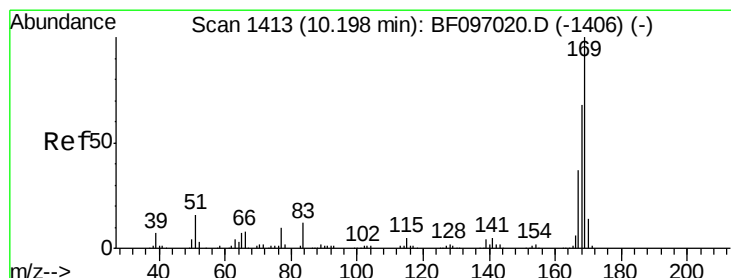
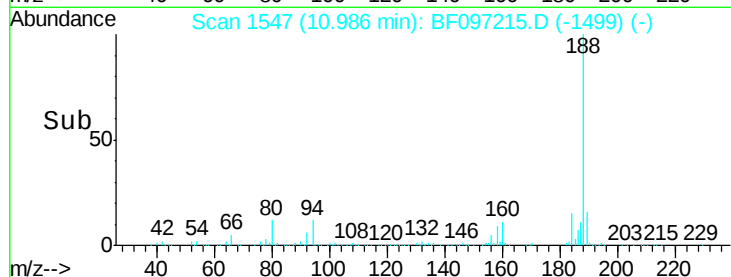
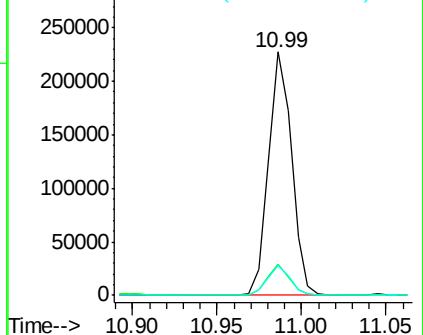
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

Tot Ion:188 Resp: 215914  
Ion Ratio Lower Upper  
188 100  
94 12.7 9.4 14.2  
80 12.3 10.2 15.2

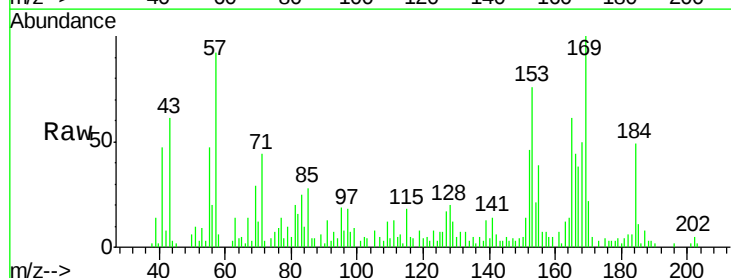


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

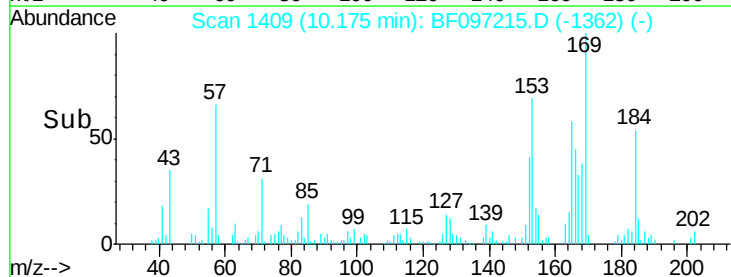
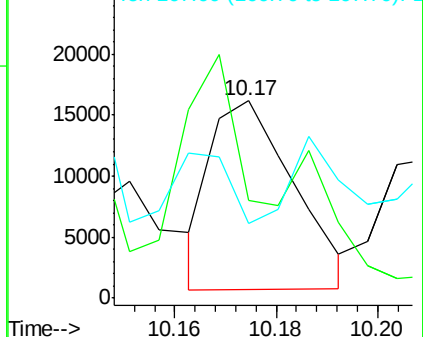


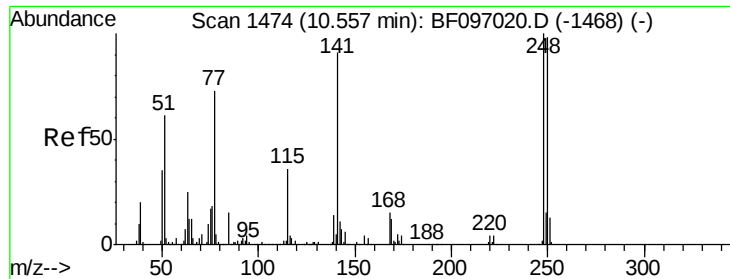
#65  
n-Nitrosodiphenylamine  
Concen: 2.35 ng  
RT: 10.17 min Scan# 1409  
Delta R.T. -0.02 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Tgt Ion:169 Resp: 17637  
Ion Ratio Lower Upper  
169 100  
168 49.8 53.2 79.8#  
167 38.1 29.5 44.3



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

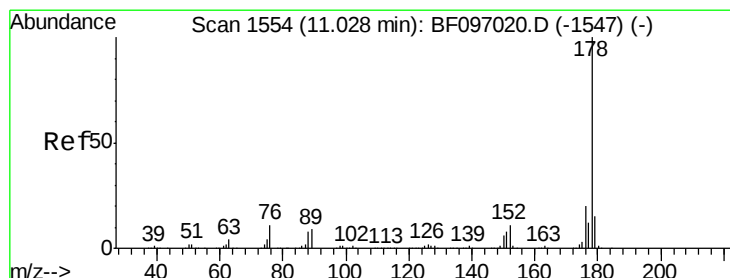
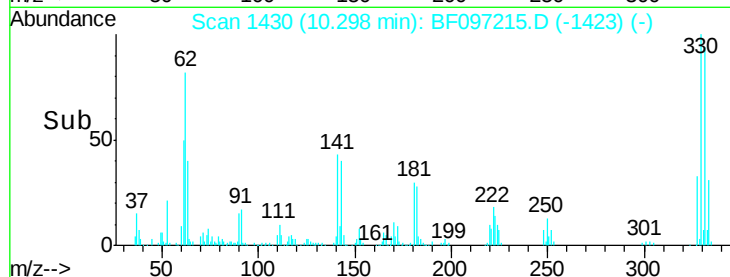
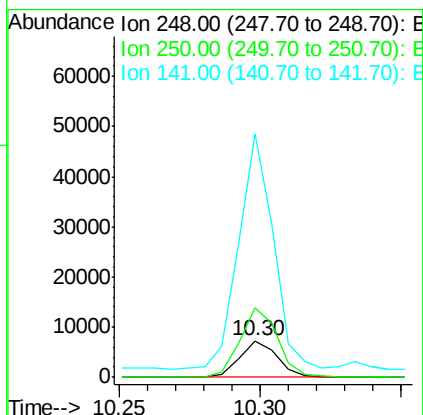
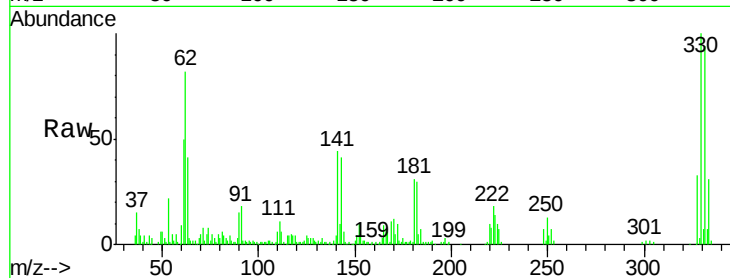




#66  
 4-Bromophenyl-phenylether  
 Concen: 3.08 ng  
 RT: 10.30 min Scan# 1430  
 Delta R.T. -0.26 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

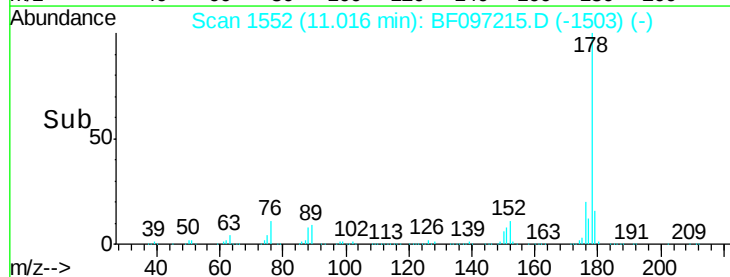
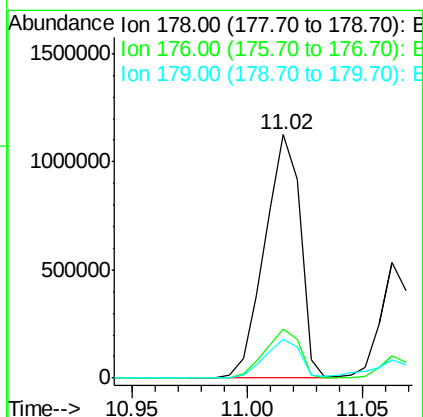
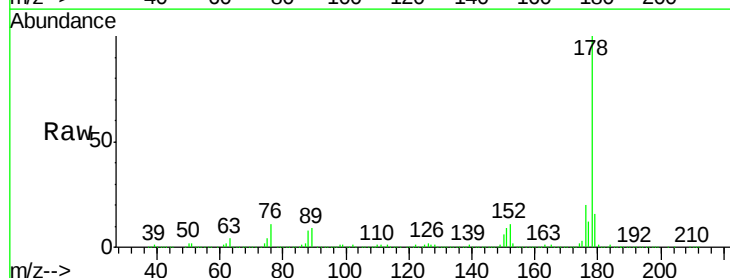
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-072717-D

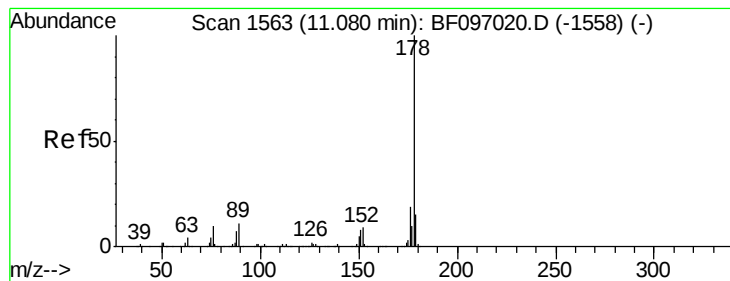
Tot Ion:248 Resp: 6643  
 Ion Ratio Lower Upper  
 248 100  
 250 189.3 76.8 115.2#  
 141 668.1 68.6 103.0#



#70  
 Phenanthrene  
 Concen: 104.12 ng  
 RT: 11.02 min Scan# 1552  
 Delta R.T. -0.01 min  
 Lab File: BF097215.D  
 Acq: 31 Jul 2017 18:37

Tgt Ion:178 Resp: 1204581  
 Ion Ratio Lower Upper  
 178 100  
 176 20.4 16.2 24.4  
 179 15.8 12.6 19.0





#71

Anthracene

Concen: 38.36 ng

RT: 11.06 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

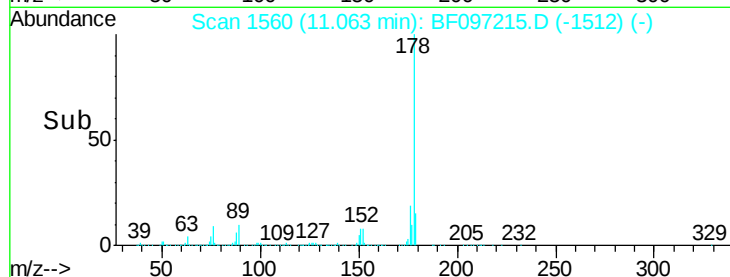
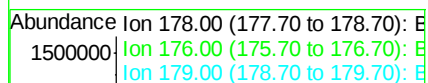
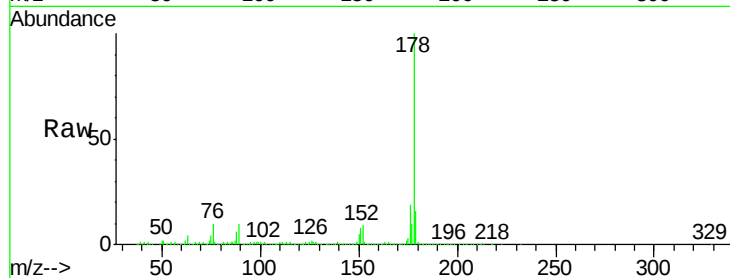
Tot Ion:178 Resp: 454531

Ion Ratio Lower Upper

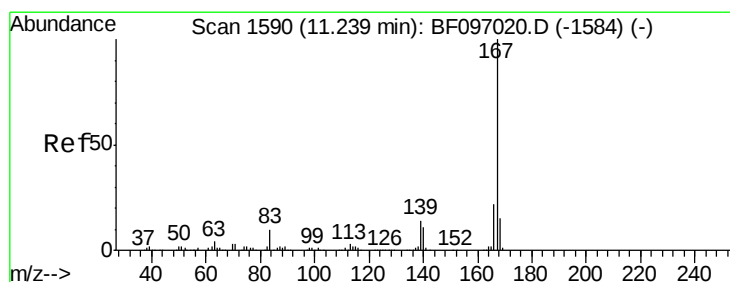
178 100

176 19.5 15.8 23.8

179 15.7 12.7 19.1



Time-->



#72

Carbazole

Concen: 6.04 ng

RT: 11.23 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

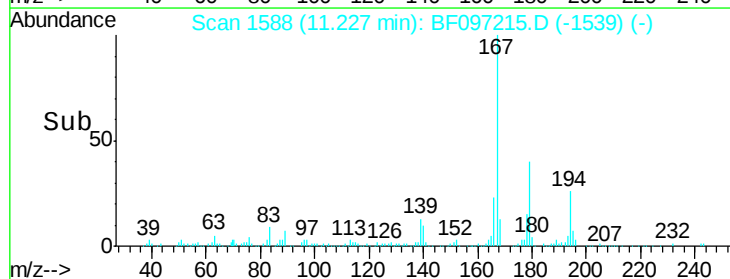
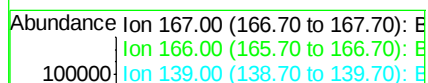
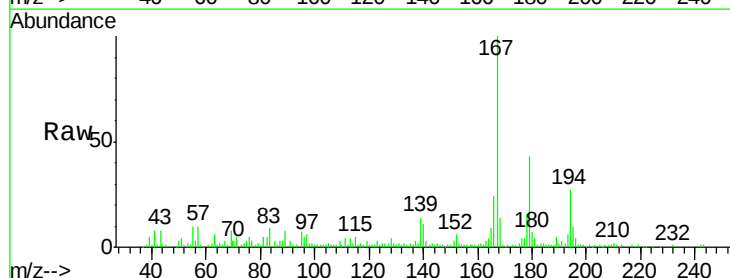
Tgt Ion:167 Resp: 70391

Ion Ratio Lower Upper

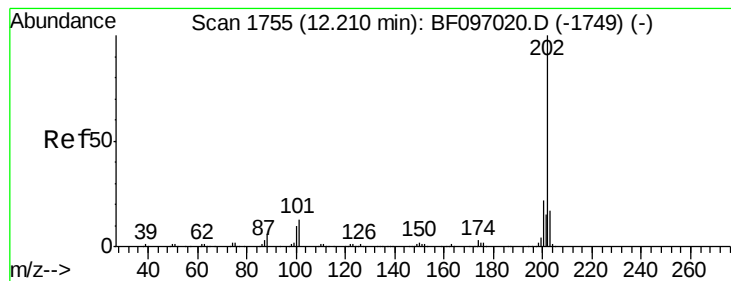
167 100

166 23.8 18.1 27.1

139 14.4 11.7 17.5



Time-->



#74

Fluoranthene

Concen: 119.82 ng

RT: 12.21 min Scan# 1755

Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

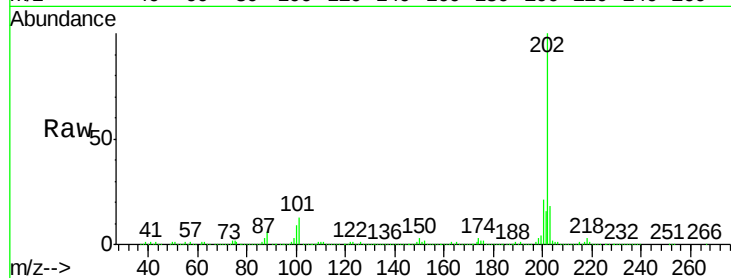
Tot Ion:202 Resp: 1358007

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

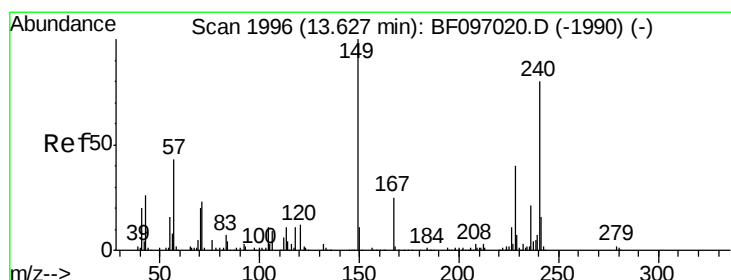
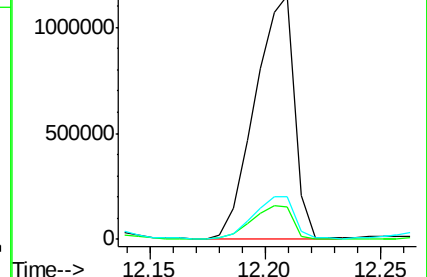
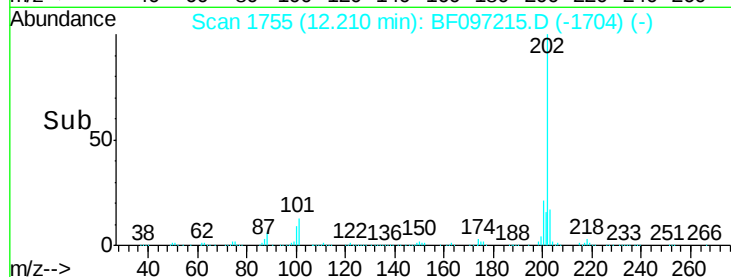
203 17.6 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.63 min Scan# 1996

Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

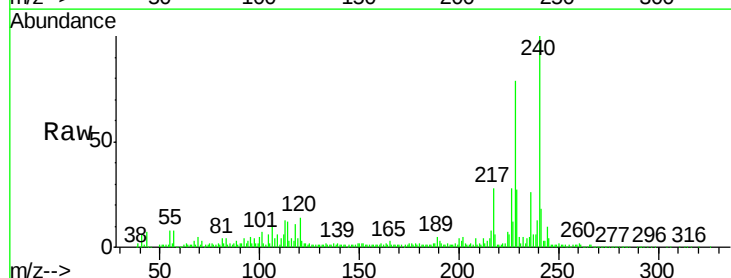
Tgt Ion:240 Resp: 179311

Ion Ratio Lower Upper

240 100

120 13.6 5.8 8.8#

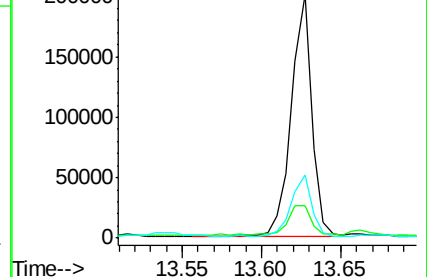
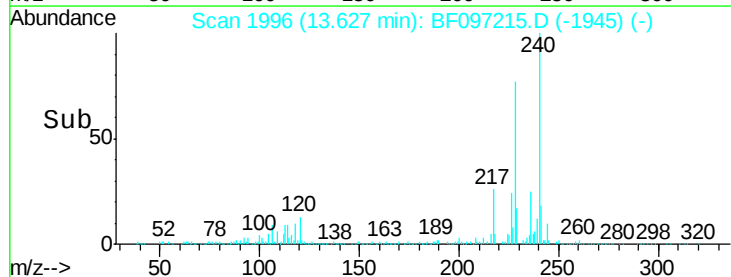
236 26.0 20.5 30.7

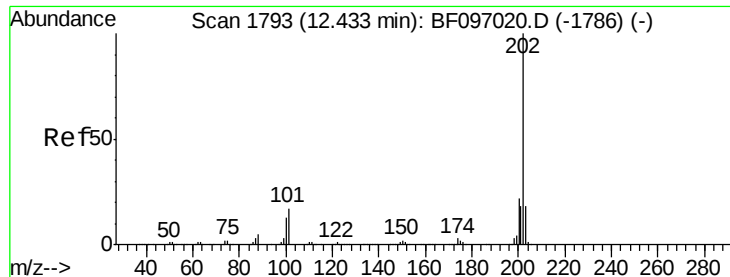


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 105.09 ng

RT: 12.43 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

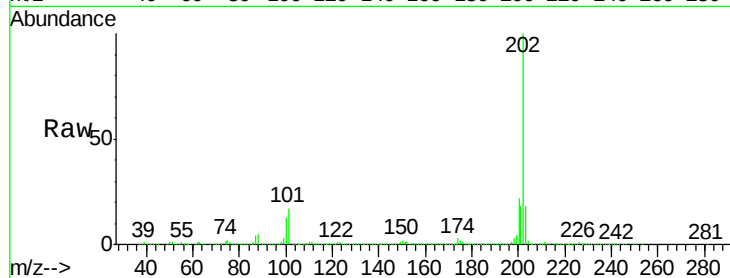
Tot Ion:202 Resp: 1542635

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

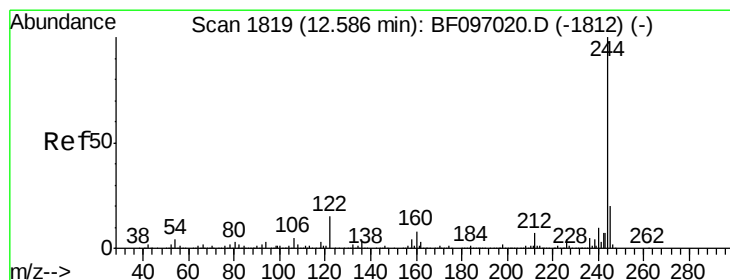
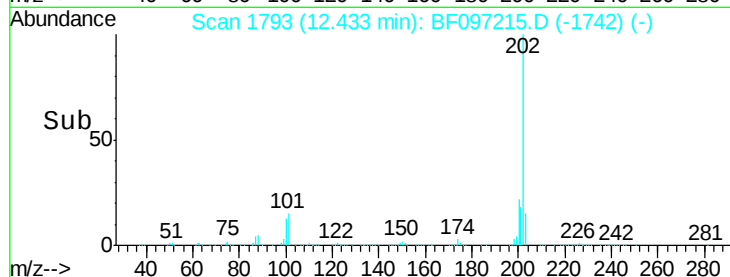
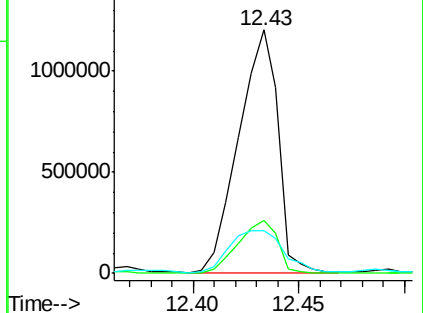
203 17.6 14.4 21.6



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: 48.70 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

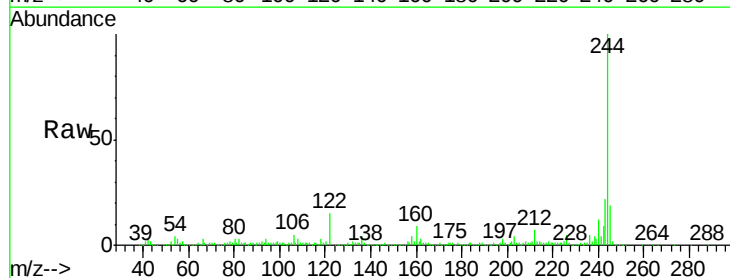
Tgt Ion:244 Resp: 428292

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

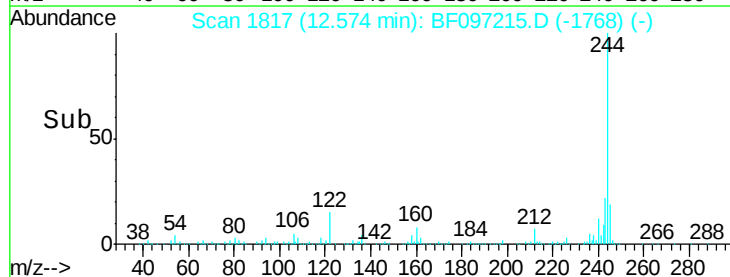
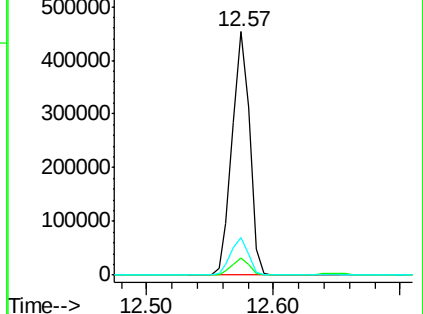
122 15.3 10.3 15.5

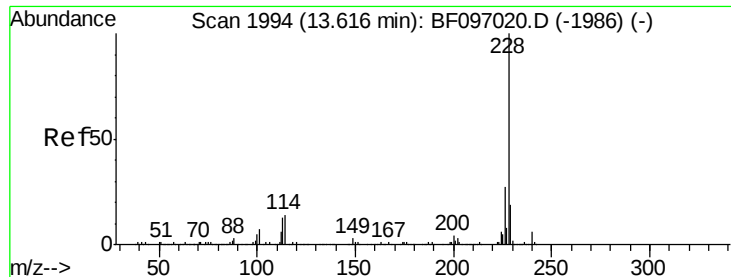


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

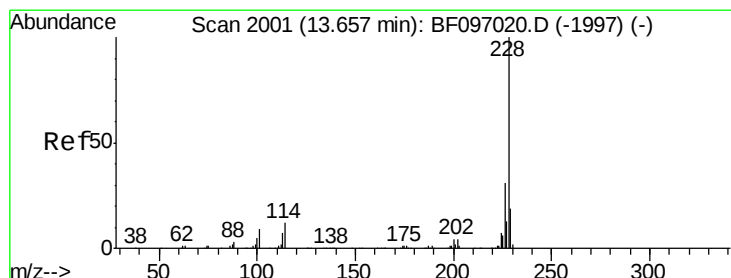
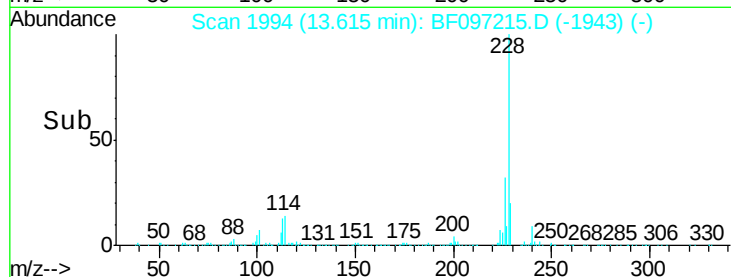
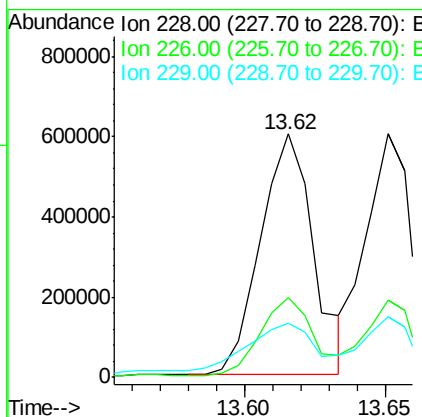
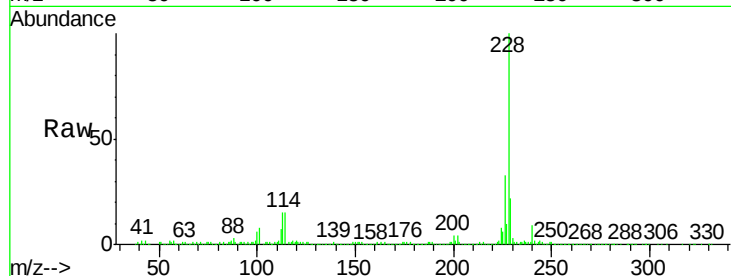




#80  
Benzo(a)anthracene  
Concen: 67.63 ng  
RT: 13.62 min Scan# 1994  
Delta R.T. -0.00 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

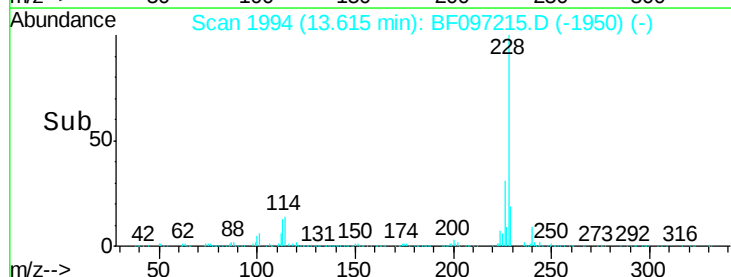
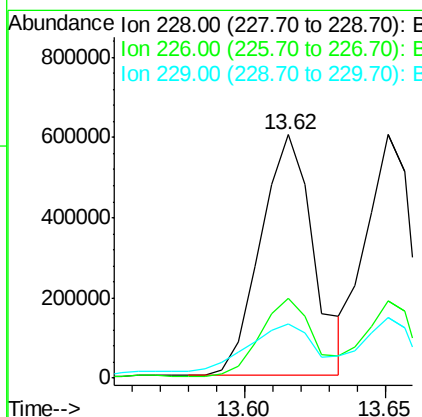
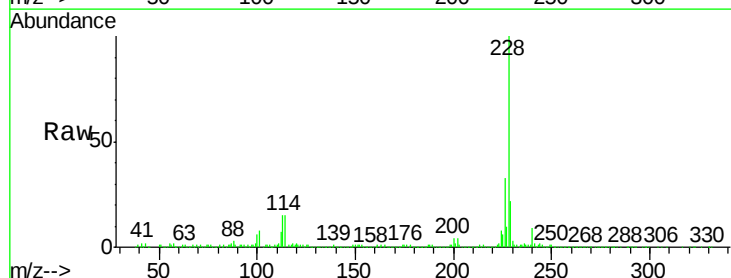
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

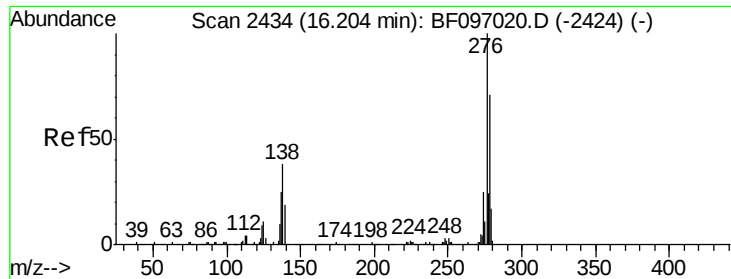
Tot Ion:228 Resp: 784601  
Ion Ratio Lower Upper  
228 100  
226 33.0 22.6 33.8  
229 22.2 16.3 24.5



#82  
Chrysene  
Concen: 69.26 ng  
RT: 13.62 min Scan# 1994  
Delta R.T. -0.04 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Tgt Ion:228 Resp: 784601  
Ion Ratio Lower Upper  
228 100  
226 33.0 24.9 37.3  
229 22.2 15.8 23.6

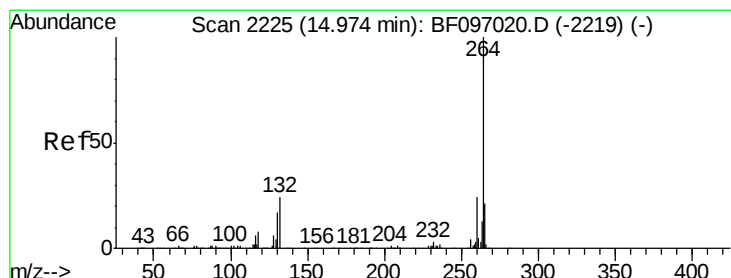
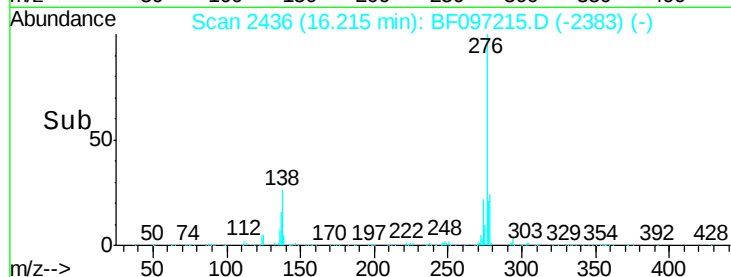
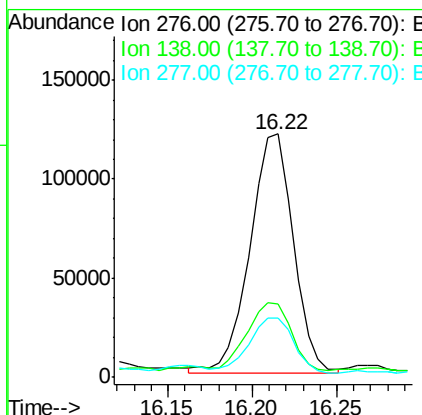
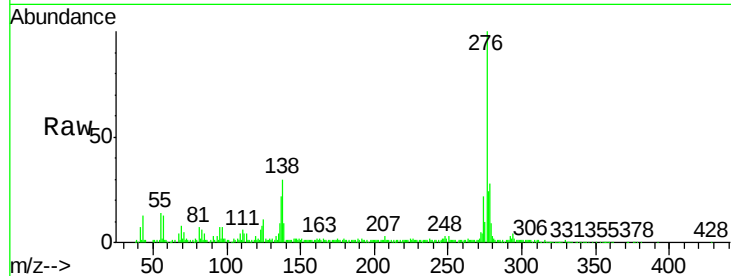




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 22.27 ng  
RT: 16.22 min Scan# 2436  
Delta R.T. 0.01 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

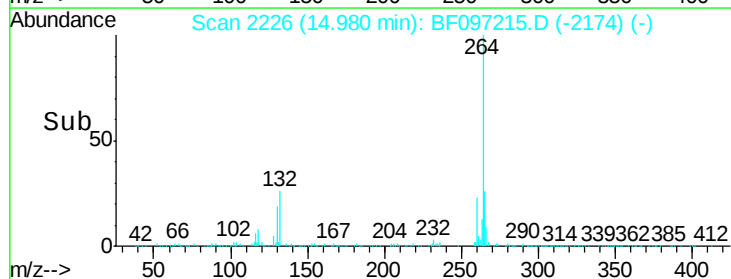
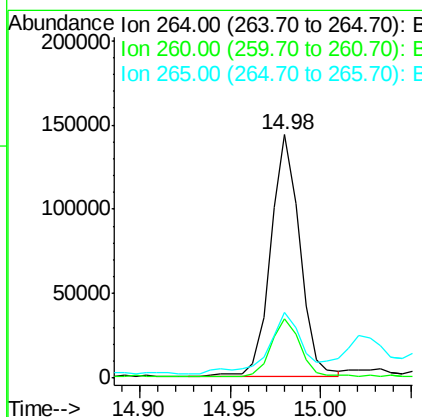
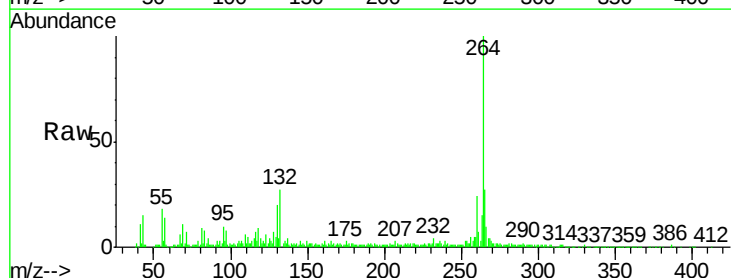
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

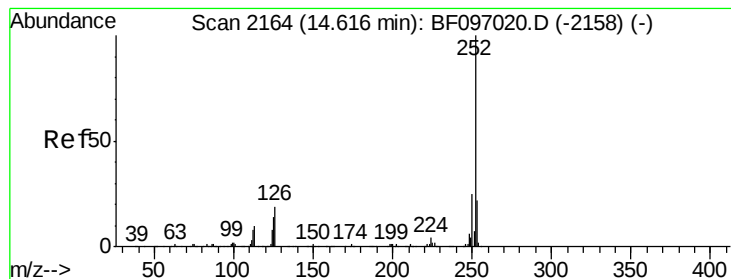
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.5  | 27.8  | 41.6  |
| 277     | 23.9  | 20.2  | 30.4  |



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 14.98 min Scan# 2226  
Delta R.T. 0.01 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.5  | 29.3  |
| 265     | 27.2  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 86.69 ng

RT: 14.63 min Scan# 2166

Delta R.T. 0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

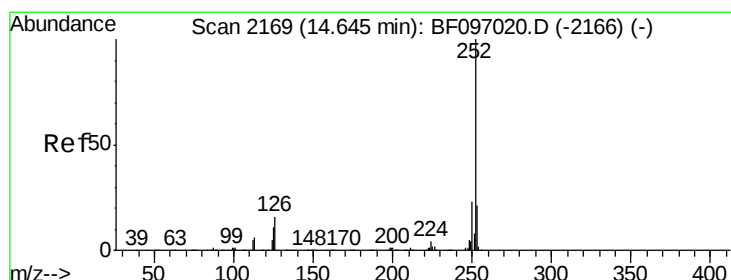
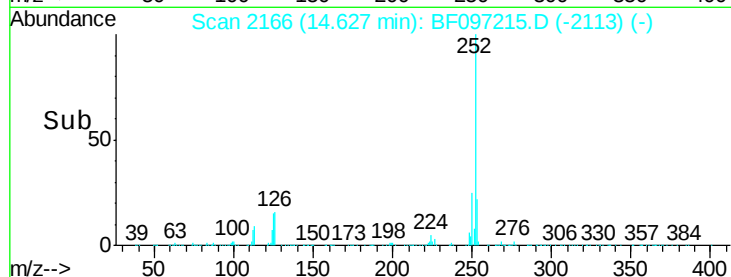
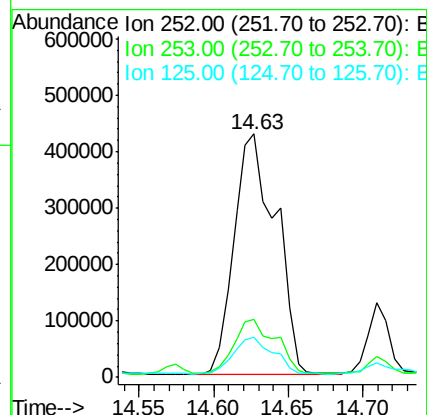
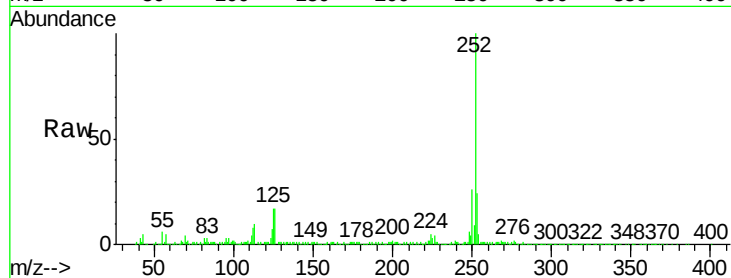
Tot Ion:252 Resp: 834332

Ion Ratio Lower Upper

252 100

253 23.9 18.1 27.1

125 16.7 9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 90.97 ng

RT: 14.63 min Scan# 2166

Delta R.T. -0.02 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

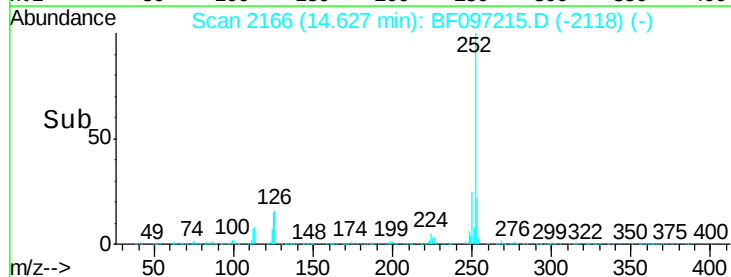
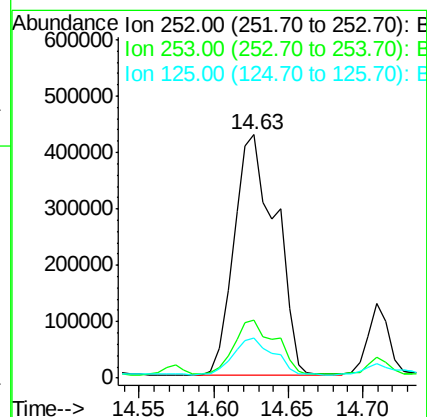
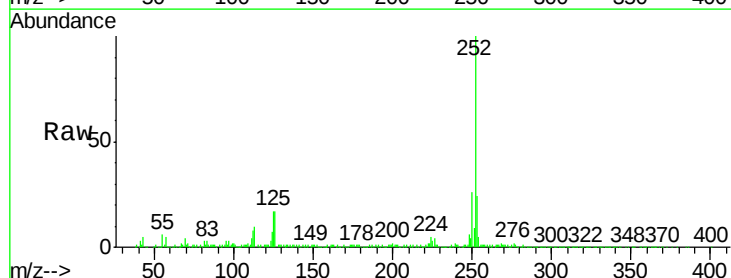
Tgt Ion:252 Resp: 834332

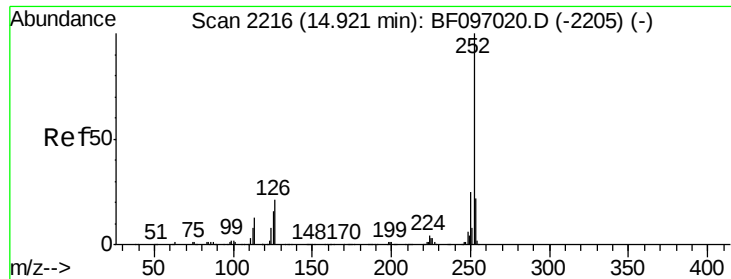
Ion Ratio Lower Upper

252 100

253 23.9 18.4 27.6

125 16.7 13.1 19.7

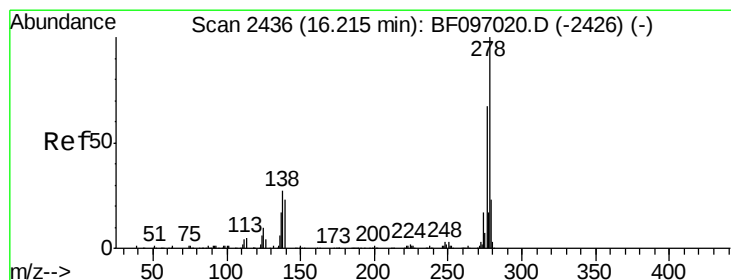
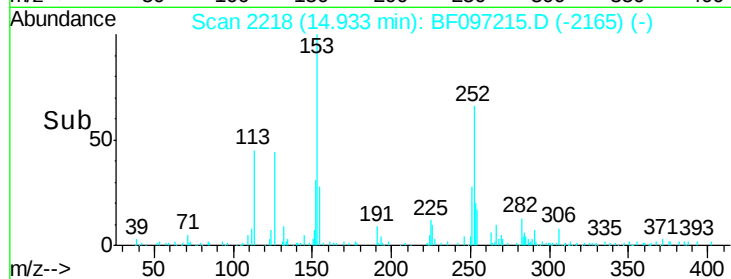
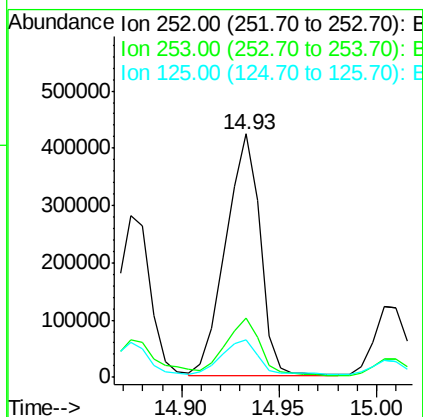
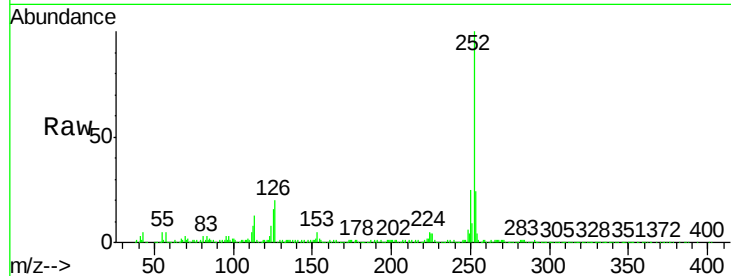




#89  
Benzo(a)pyrene  
Concen: 58.19 ng  
RT: 14.93 min Scan# 2218  
Delta R.T. 0.01 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

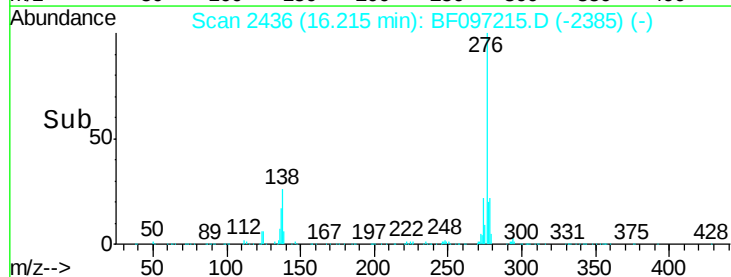
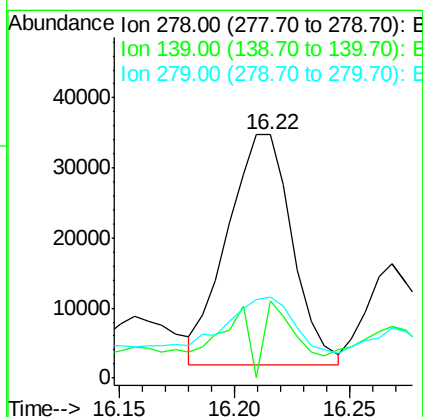
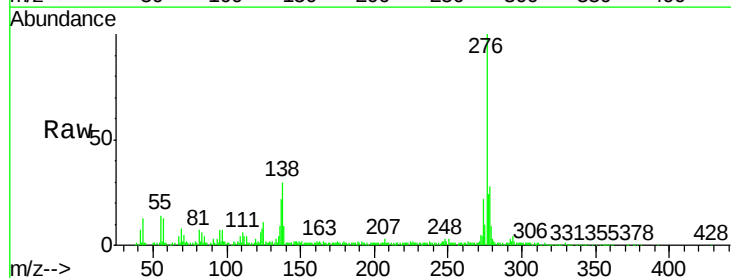
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-072717-D

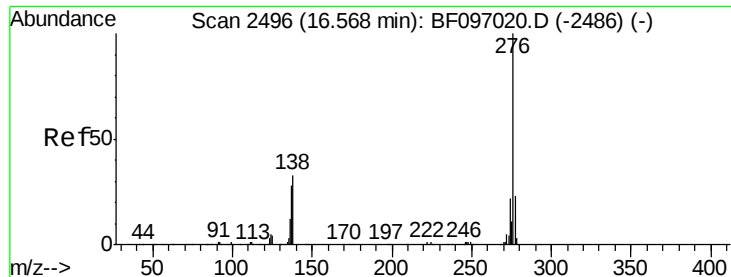
Tot Ion: 252 Resp: 512589  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.5 26.3  
125 15.5 11.0 16.4



#90  
Dibenzo(a,h)anthracene  
Concen: 8.92 ng  
RT: 16.22 min Scan# 2436  
Delta R.T. -0.00 min  
Lab File: BF097215.D  
Acq: 31 Jul 2017 18:37

Tgt Ion: 278 Resp: 64451  
Ion Ratio Lower Upper  
278 100  
139 31.6 16.6 24.8#  
279 33.2 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 27.52 ng

RT: 16.58 min Scan# 2498

Delta R.T. 0.01 min

Lab File: BF097215.D

Acq: 31 Jul 2017 18:37

Instrument :

BNA\_F

ClientSampleId :

CL-02-072717-D

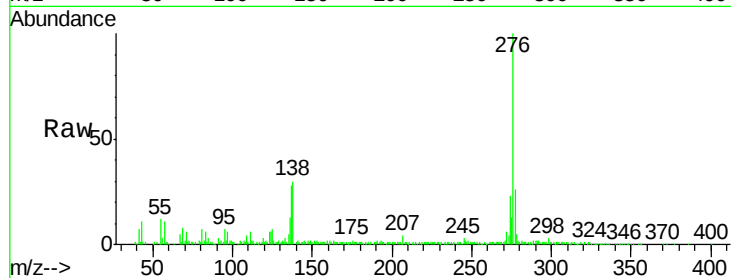
Tot Ion: 276 Resp: 208462

Ion Ratio Lower Upper

276 100

277 25.9 18.6 28.0

138 30.2 25.4 38.0



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

