

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031518\  
 Data File : BF103677.D  
 Acq On : 15 Mar 2018 19:21  
 Operator : JU/SJ  
 Sample : J1888-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-ACIDS-WP

Quant Time: Mar 16 04:51:16 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 15 18:31:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 163016   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 678001   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 319161   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 584413   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.14 | 240  | 506360   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.67 | 264  | 464479   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.59  | 112  | 1208351  | 112.74 | ng    | 0.01     |
| 7) Phenol-d6                | 6.59  | 99   | 1515910  | 115.61 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 886376   | 91.17  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 365912   | 133.34 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1563490  | 78.14  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.09 | 244  | 1672348  | 76.66  | ng    | 0.00     |

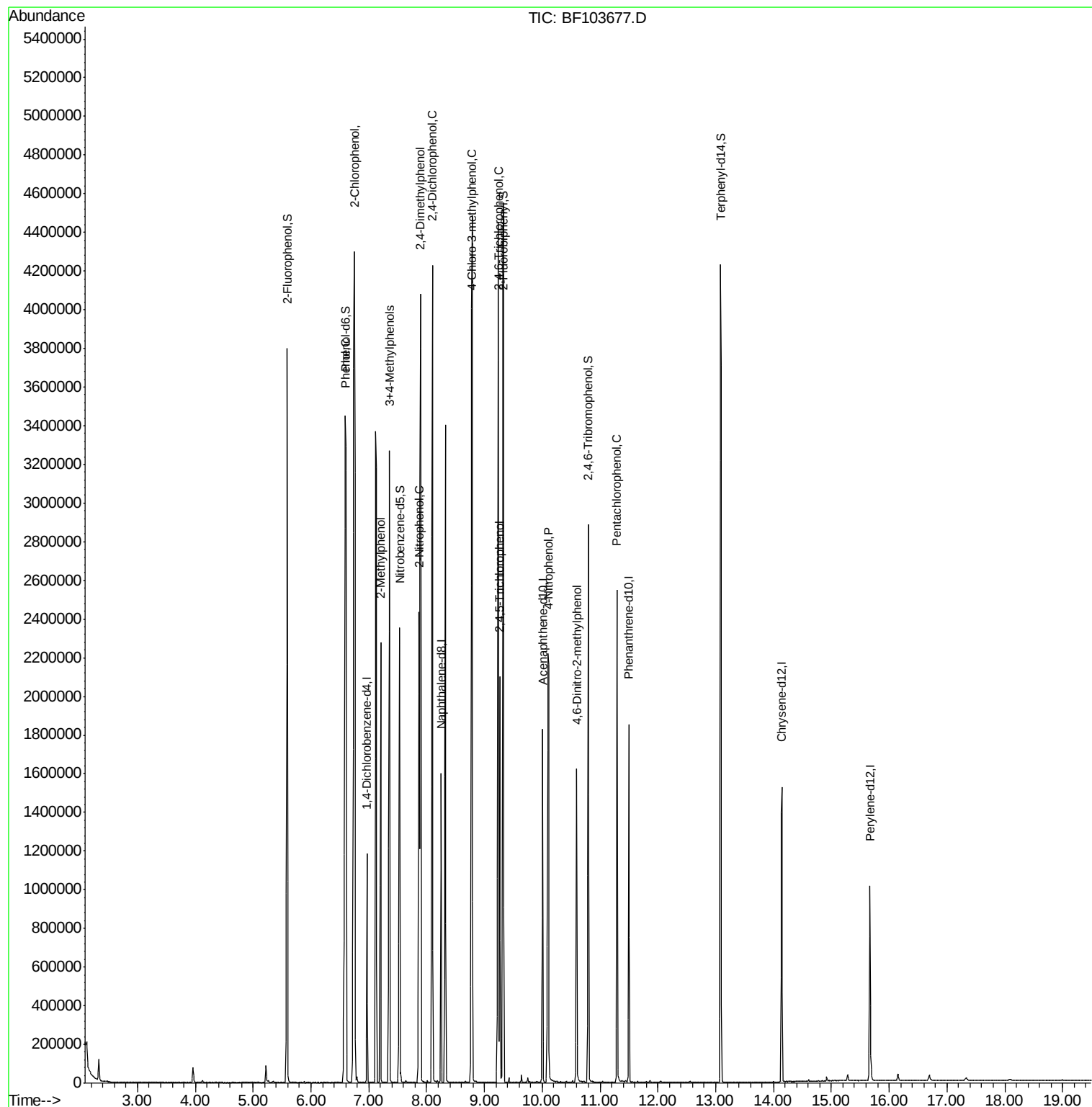
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|--------------------------------|-------|------|----------|---------|-------|--------|
| 8) 2-Chlorophenol              | 6.76  | 128  | 1201229  | 106.990 | ng    | 97     |
| 10) Phenol                     | 6.61  | 94   | 1178640  | 84.591  | ng    | 96     |
| 17) 2-Methylphenol             | 7.20  | 107  | 419504   | 41.958  | ng    | 99     |
| 20) 3+4-Methylphenols          | 7.36  | 107  | 900768   | 70.990  | ng    | 87     |
| 26) 2-Nitrophenol              | 7.87  | 139  | 440906   | 90.995  | ng    | 95     |
| 27) 2,4-Dimethylphenol         | 7.89  | 122  | 1004179  | 104.148 | ng    | 98     |
| 29) 2,4-Dichlorophenol         | 8.10  | 162  | 1048438  | 119.520 | ng    | 98     |
| 36) 4-Chloro-3-methylphenol    | 8.79  | 107  | 1094474  | 113.176 | ng    | 98     |
| 42) 2,4,6-Trichlorophenol      | 9.24  | 196  | 757207   | 130.015 | ng    | 98     |
| 43) 2,4,5-Trichlorophenol      | 9.27  | 196  | 245116   | 37.289  | ng    | 99     |
| 55) 4-Nitrophenol              | 10.11 | 139  | 501538   | 110.481 | ng    | 95     |
| 64) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 201786   | 74.858  | ng    | 83     |
| 69) Pentachlorophenol          | 11.29 | 266  | 267685   | 67.987  | ng    | 97     |

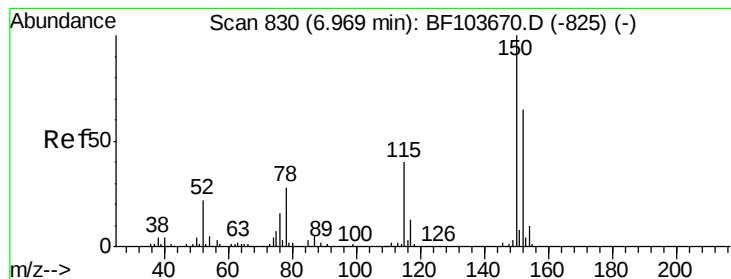
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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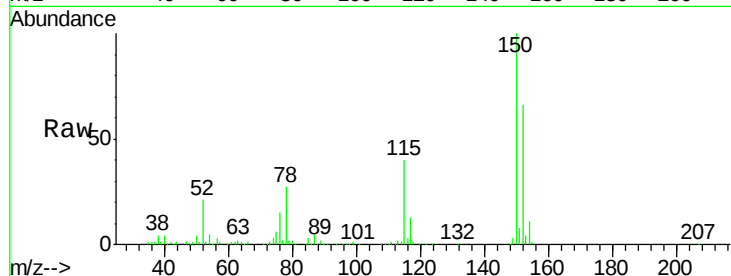


#1

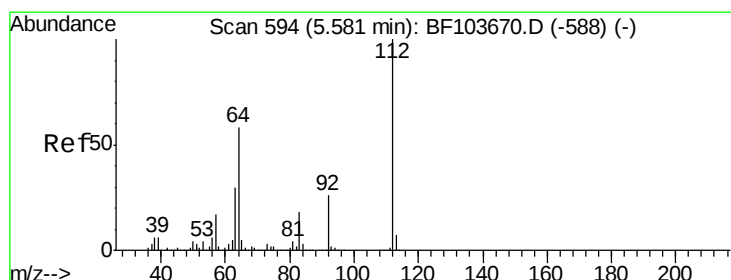
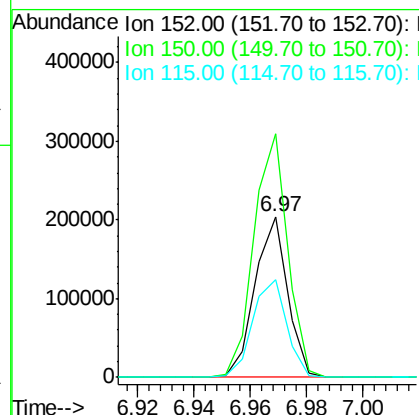
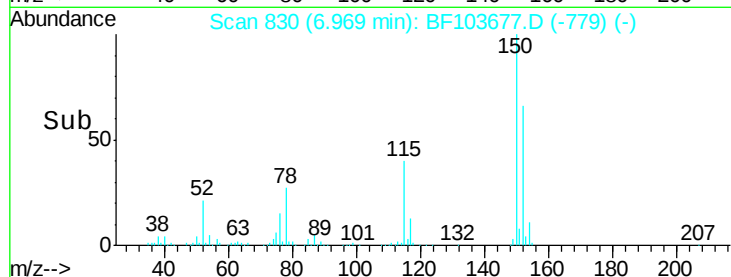
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 830  
Delta R.T. 0.00 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

Instrument :  
BNA\_F  
ClientSampleId :  
PT-ACIDS-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.7 | 124.6 | 186.8 |
| 115     | 60.9  | 50.1  | 75.1  |



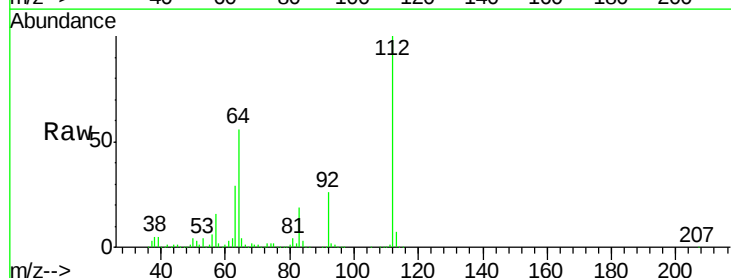
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



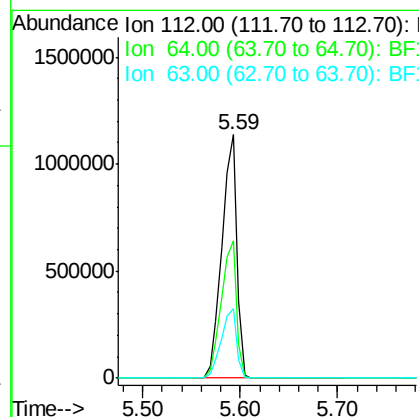
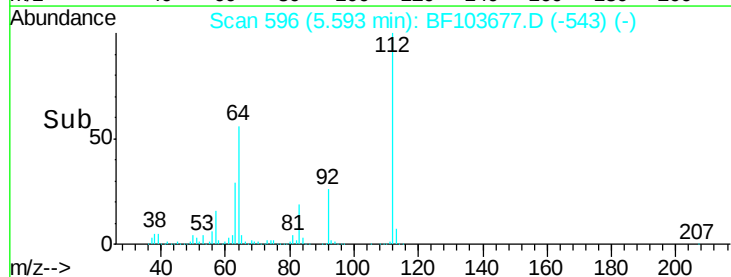
#5

2-Fluorophenol  
Concen: 112.743 ng  
RT: 5.59 min Scan# 596  
Delta R.T. 0.01 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.2  | 47.9  | 71.9  |
| 63      | 28.6  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 115.609 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.01 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

Instrument :

BNA\_F

ClientSampleId :

PT-ACIDS-WP

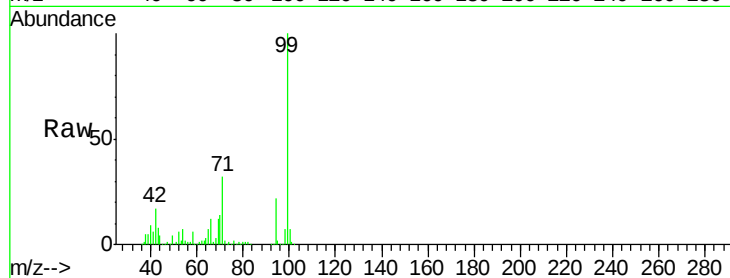
Tot Ion: 99 Resp: 1515910

Ion Ratio Lower Upper

99 100

42 16.8 14.5 21.7

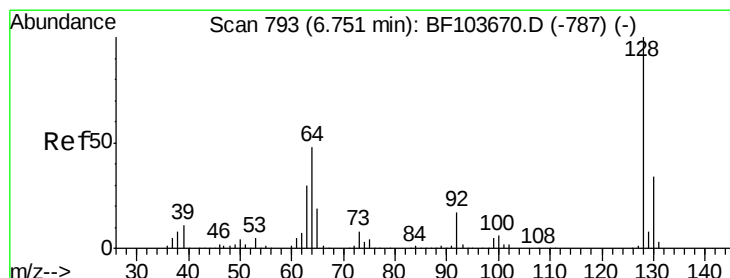
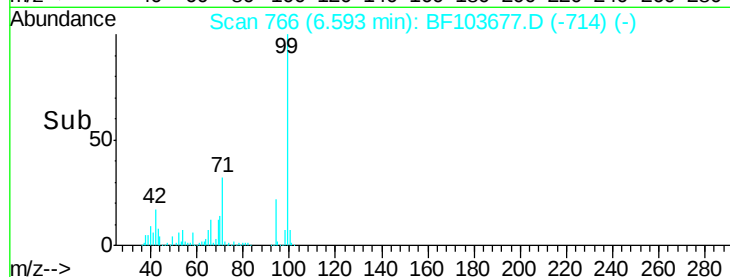
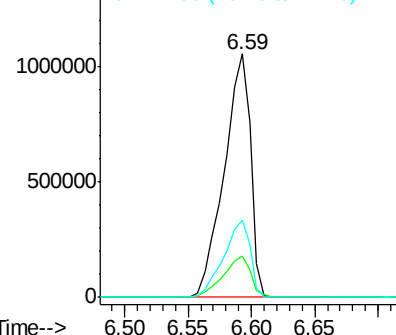
71 31.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 106.990 ng

RT: 6.76 min Scan# 794

Delta R.T. 0.01 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

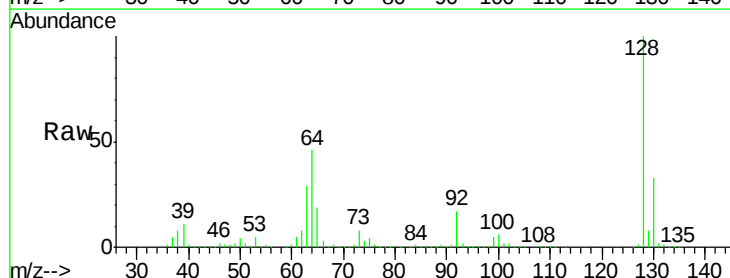
Tgt Ion: 128 Resp: 1201229

Ion Ratio Lower Upper

128 100

130 33.3 13.0 53.0

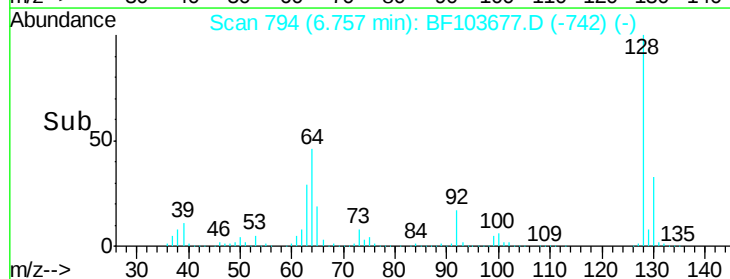
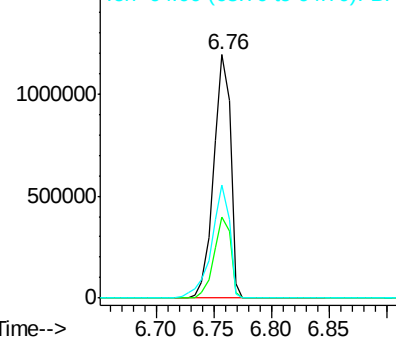
64 46.2 29.4 69.4

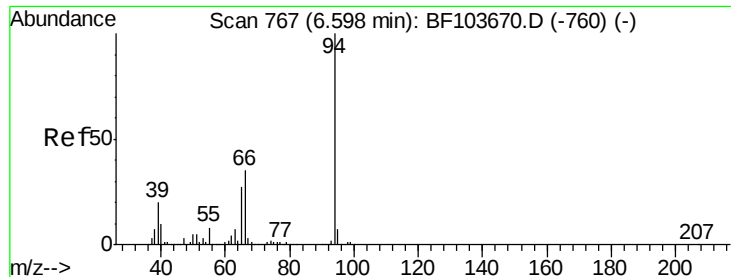


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF1

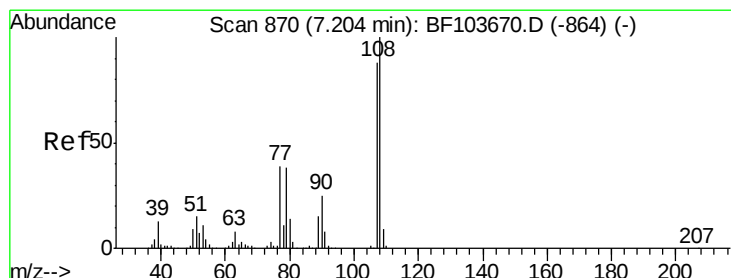
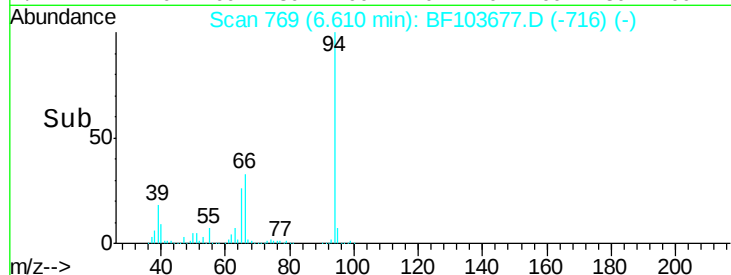
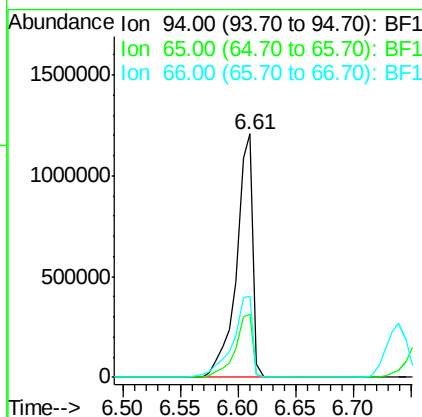
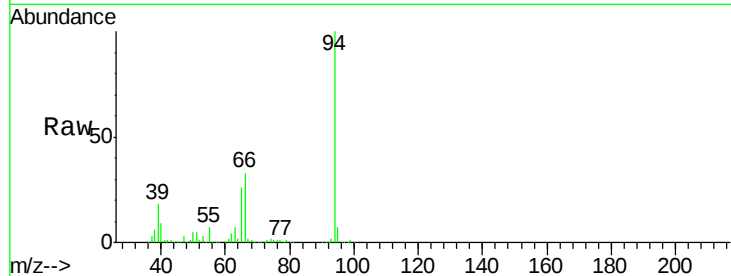




#10  
Phenol  
Concen: 84.591 ng  
RT: 6.61 min Scan# 769  
Delta R.T. 0.01 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

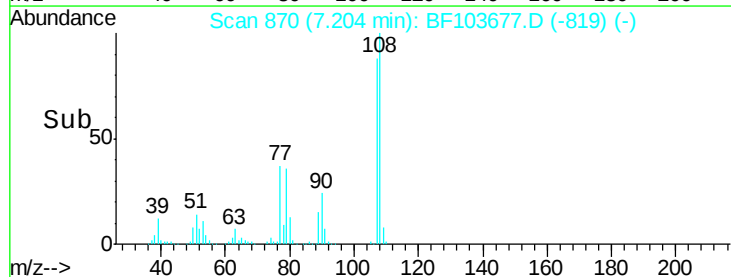
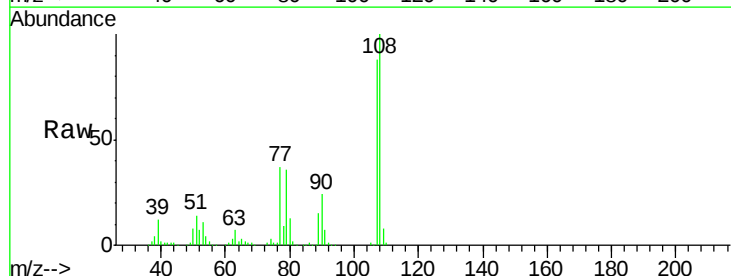
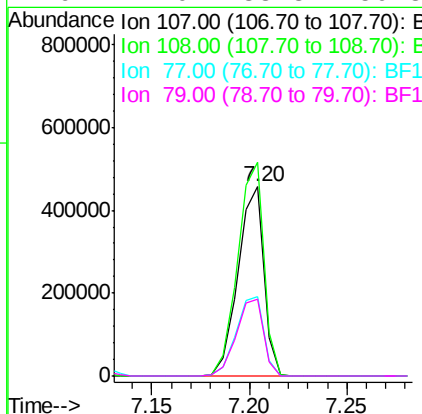
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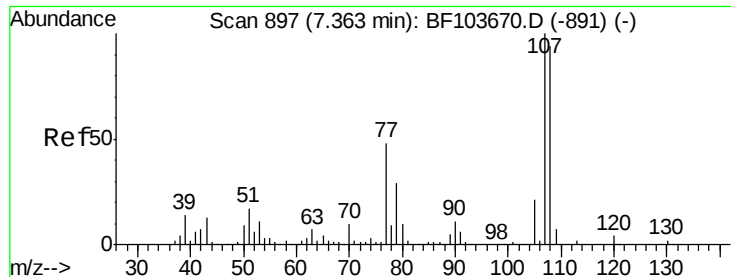
Tot Ion: 94 Resp: 1178640  
Ion Ratio Lower Upper  
94 100  
65 25.9 7.9 47.9  
66 33.4 16.2 56.2



#17  
2-Methylphenol  
Concen: 41.958 ng  
RT: 7.20 min Scan# 870  
Delta R.T. 0.00 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

Tgt Ion: 107 Resp: 419504  
Ion Ratio Lower Upper  
107 100  
108 113.1 91.7 137.5  
77 42.3 33.8 50.8  
79 41.0 33.8 50.8

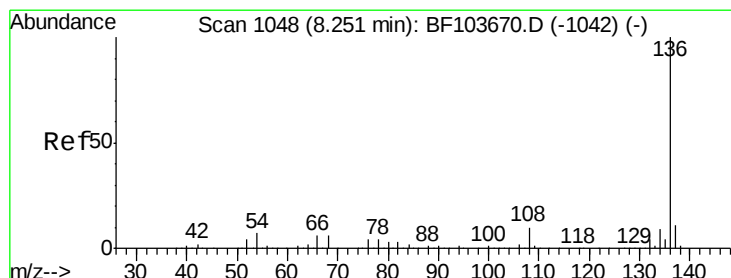
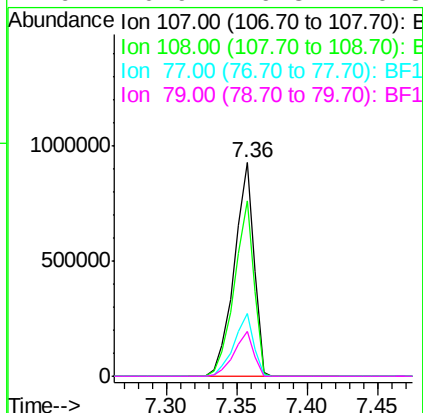
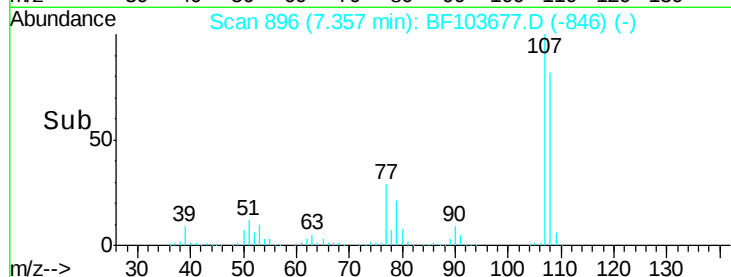
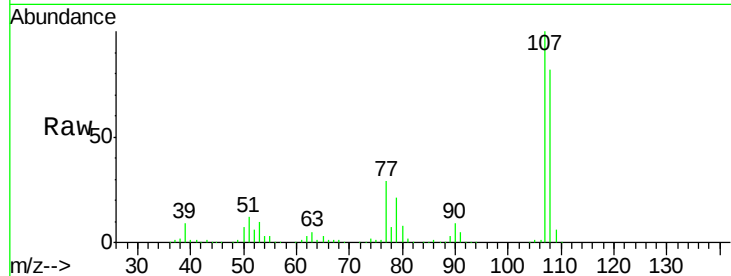




#20  
3+4-Methylphenols  
Concen: 70.990 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

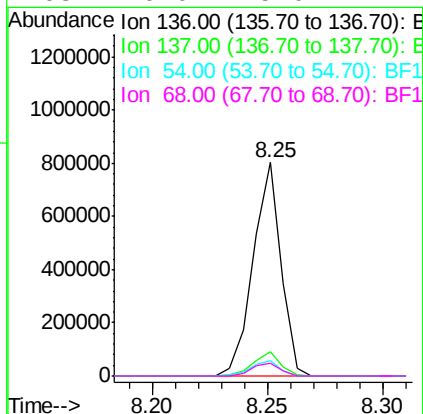
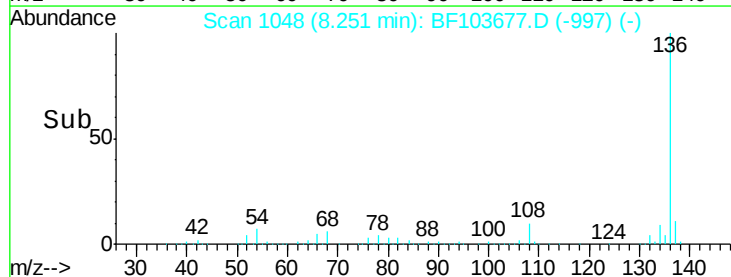
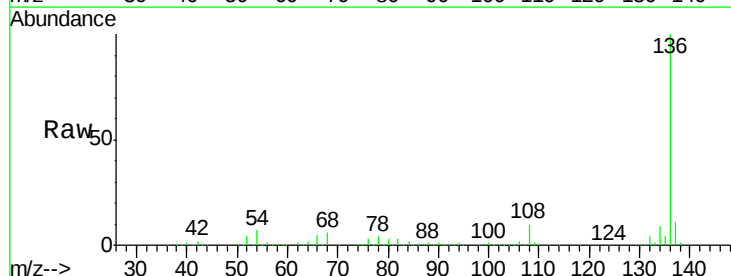
Instrument :  
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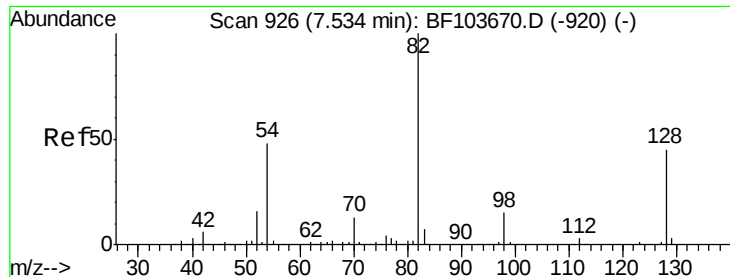
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 107   | Resp: | 900768 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 81.8  | 68.2  | 108.2  |
| 77       | 29.3  | 26.7  | 66.7   |
| 79       | 20.9  | 6.3   | 46.3   |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1048  
Delta R.T. 0.00 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 678001 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 7.1   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |

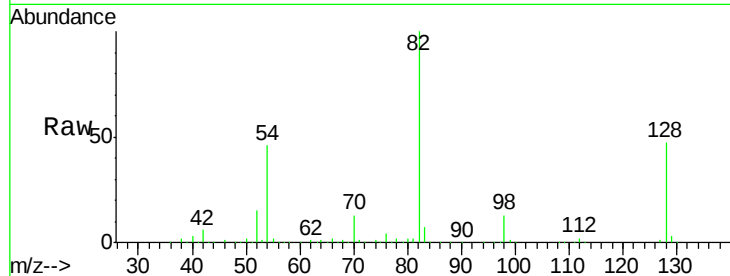




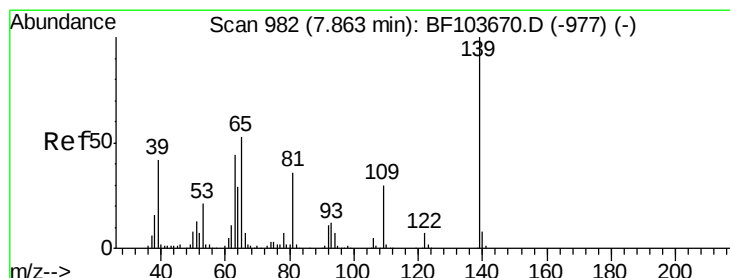
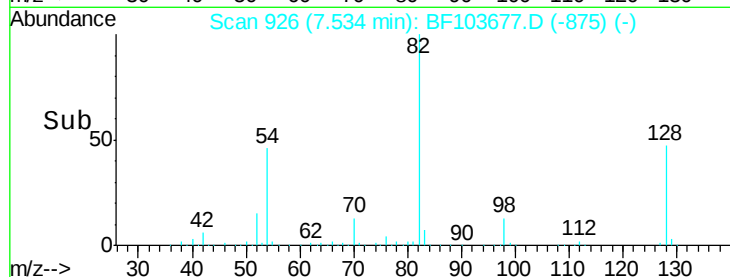
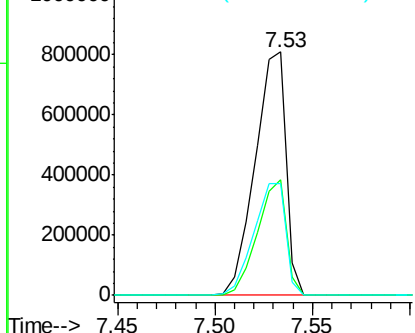
#23  
 Nitrobenzene-d5  
 Concen: 91.168 ng  
 RT: 7.53 min Scan# 926  
 Delta R.T. 0.00 min  
 Lab File: BF103677.D  
 Acq: 15 Mar 2018 19:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-ACIDS-WP

Tot Ion: 82 Resp: 886376  
 Ion Ratio Lower Upper  
 82 100  
 128 47.4 36.1 54.1  
 54 45.7 41.4 62.2

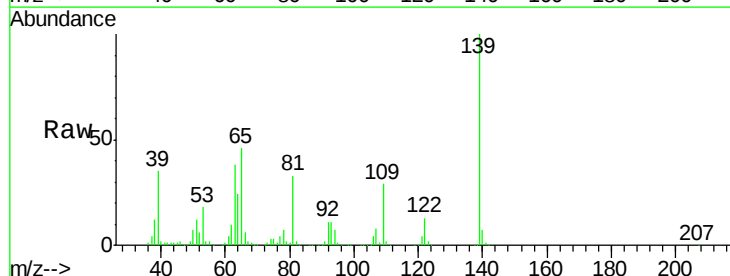


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

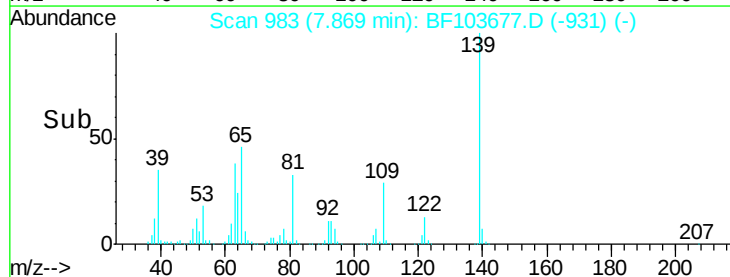
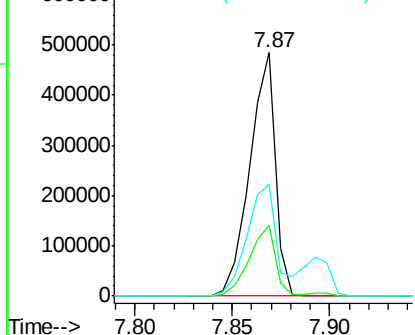


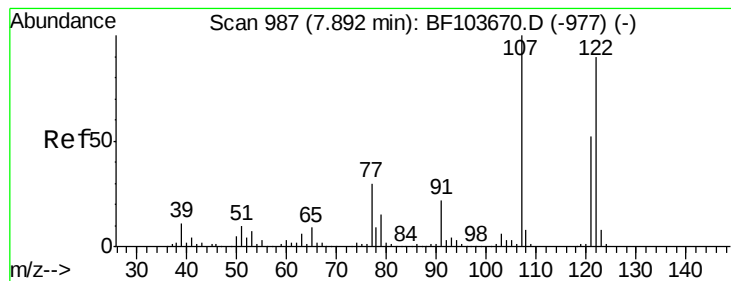
#26  
 2-Nitrophenol  
 Concen: 90.995 ng  
 RT: 7.87 min Scan# 983  
 Delta R.T. 0.01 min  
 Lab File: BF103677.D  
 Acq: 15 Mar 2018 19:21

Tgt Ion: 139 Resp: 440906  
 Ion Ratio Lower Upper  
 139 100  
 109 28.8 22.7 34.1  
 65 45.9 40.5 60.7



Abundance Ion 139.00 (138.70 to 139.70): BF1  
 Ion 109.00 (108.70 to 109.70): BF1  
 Ion 65.00 (64.70 to 65.70): BF1





#27

2,4-Dimethylphenol

Concen: 104.148 ng

RT: 7.89 min Scan# 987

Delta R.T. 0.00 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

Instrument :

BNA\_F

ClientSampleId :

PT-ACIDS-WP

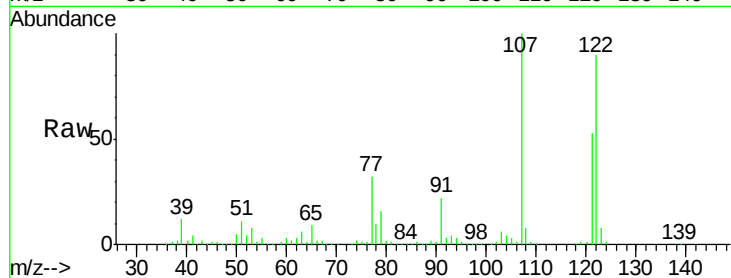
Tot Ion:122 Resp: 1004179

Ion Ratio Lower Upper

122 100

107 110.5 91.2 136.8

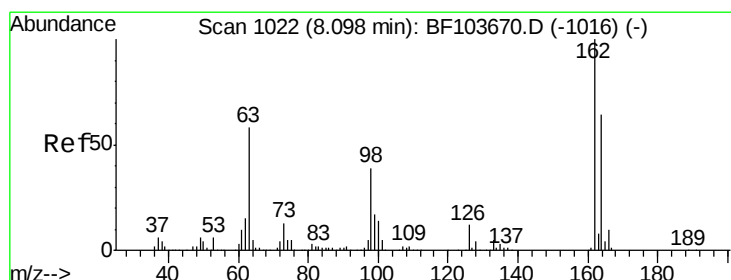
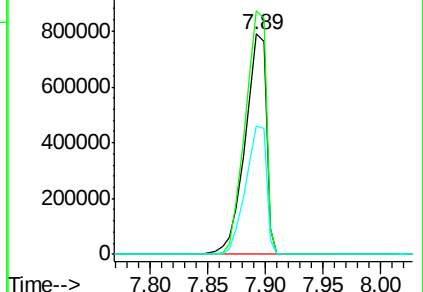
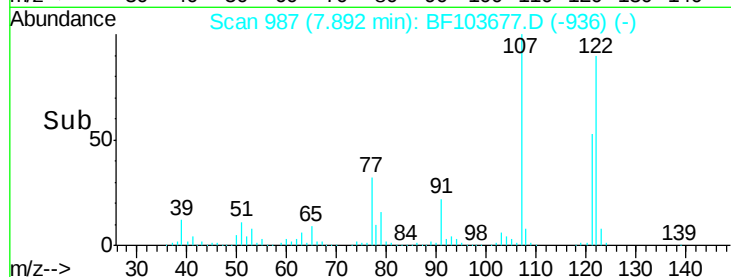
121 58.4 47.2 70.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#29

2,4-Dichlorophenol

Concen: 119.520 ng

RT: 8.10 min Scan# 1023

Delta R.T. 0.01 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

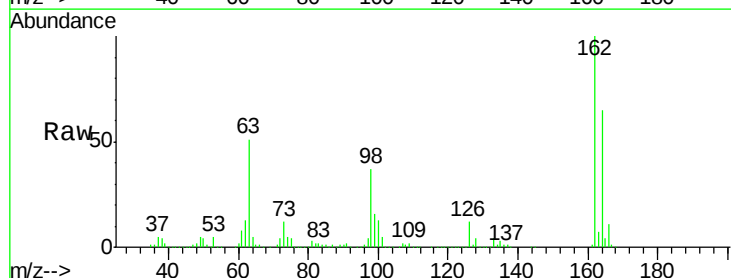
Tgt Ion:162 Resp: 1048438

Ion Ratio Lower Upper

162 100

164 65.1 42.7 82.7

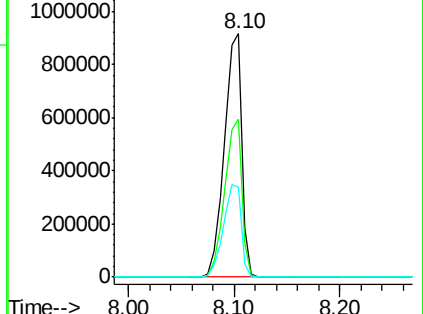
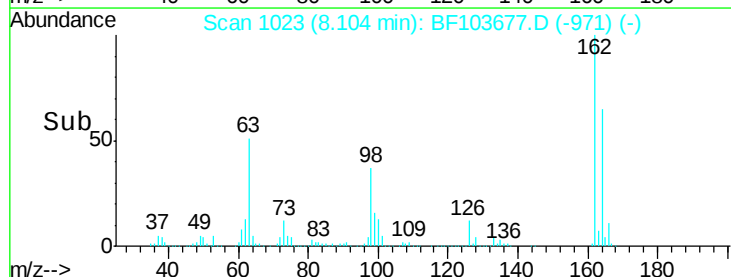
98 37.1 18.1 58.1

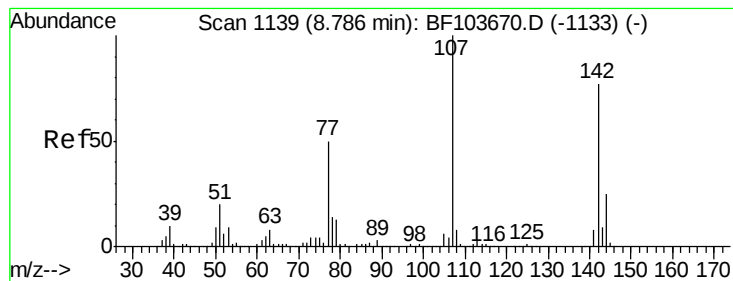


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF1





#36

4-Chloro-3-methylphenol

Concen: 113.176 ng

RT: 8.79 min Scan# 1139

Delta R.T. 0.00 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

Instrument :

BNA\_F

ClientSampleId :

PT-ACIDS-WP

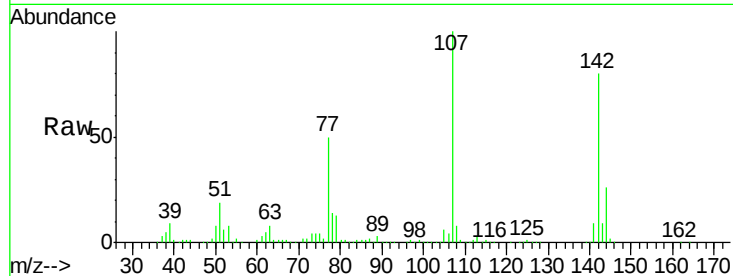
Tot Ion:107 Resp: 1094474

Ion Ratio Lower Upper

107 100

144 26.3 20.5 30.7

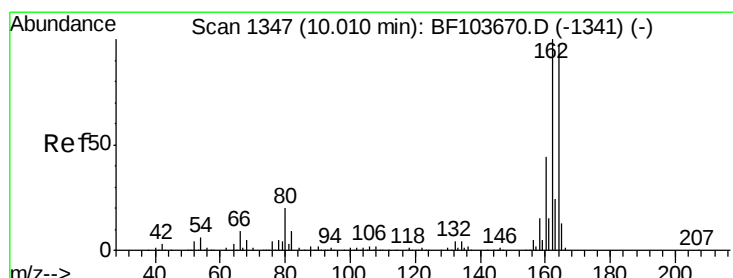
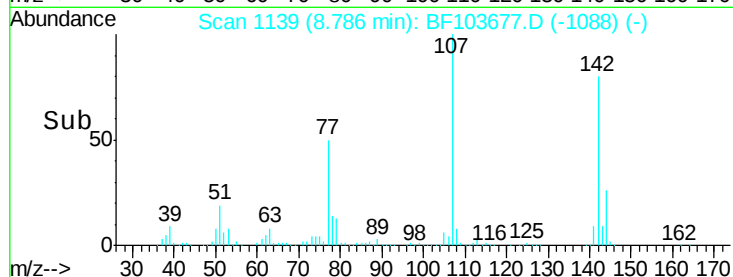
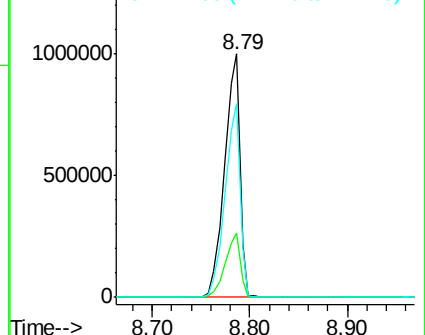
142 79.5 62.0 93.0



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1346

Delta R.T. -0.01 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

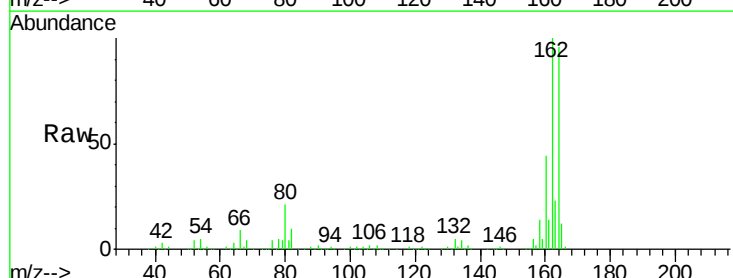
Tgt Ion:164 Resp: 319161

Ion Ratio Lower Upper

164 100

162 104.1 86.1 129.1

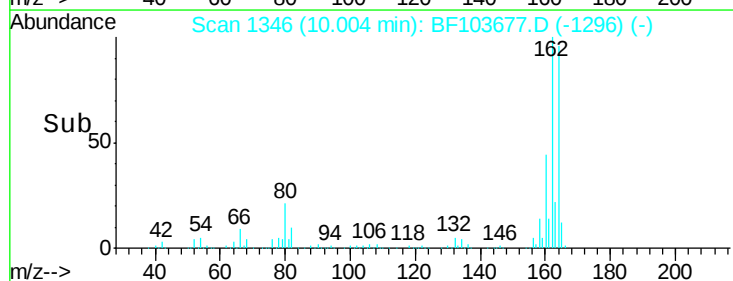
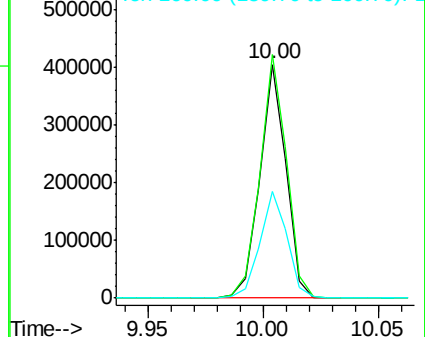
160 45.8 38.3 57.5

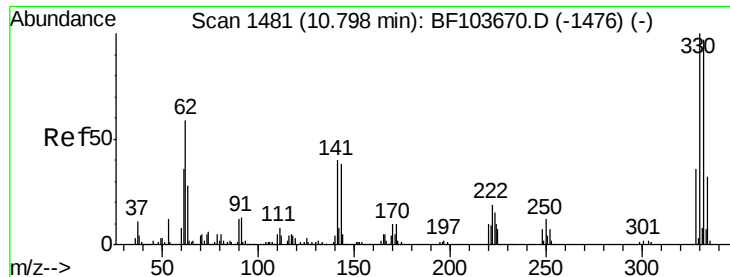


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

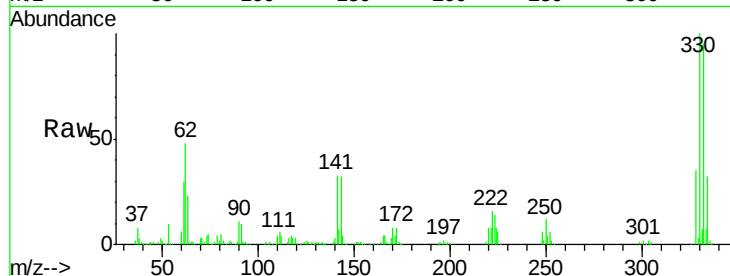




#41  
 2,4,6-Tribromophenol  
 Concen: 133.342 ng  
 RT: 10.80 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: BF103677.D  
 Acq: 15 Mar 2018 19:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-ACIDS-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 77.0  | 115.6 |
| 141     | 36.1  | 29.9  | 44.9  |

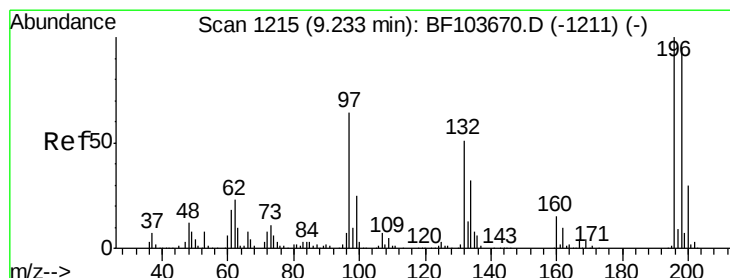
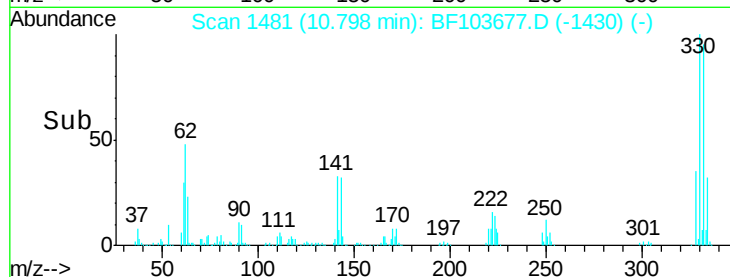
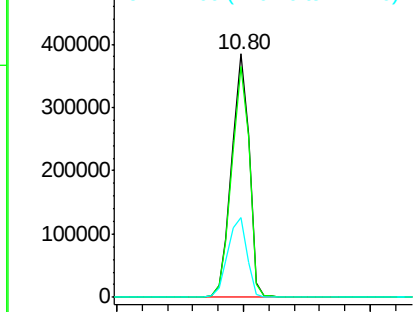


Abundance

Ion 329.80 (329.50 to 330.50): E

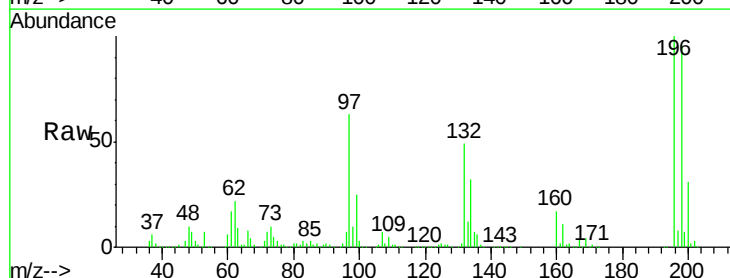
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#42  
 2,4,6-Trichlorophenol  
 Concen: 130.015 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. 0.01 min  
 Lab File: BF103677.D  
 Acq: 15 Mar 2018 19:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 96.3  | 75.7  | 113.5 |
| 200     | 31.3  | 24.5  | 36.7  |

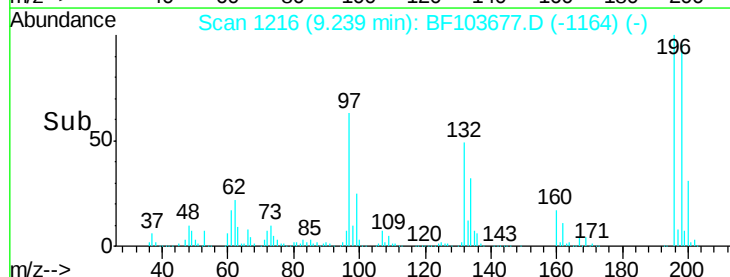
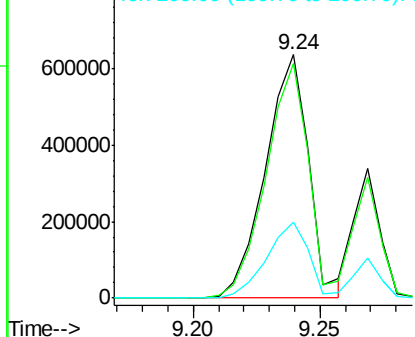


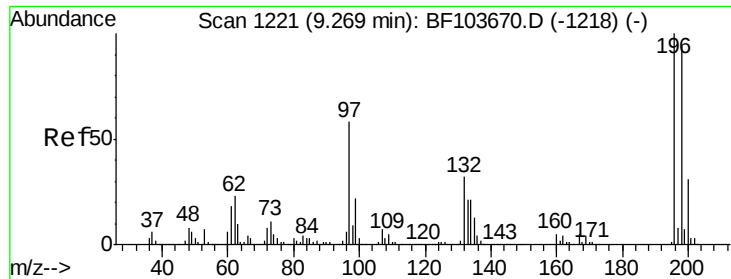
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E

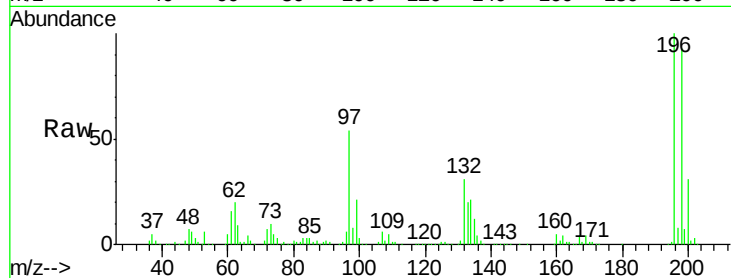




#43  
 2,4,5-Trichlorophenol  
 Concen: 37.289 ng  
 RT: 9.27 min Scan# 1221  
 Delta R.T. 0.00 min  
 Lab File: BF103677.D  
 Acq: 15 Mar 2018 19:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-ACIDS-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 92.6  | 74.6  | 112.0 |
| 97      | 54.2  | 42.9  | 64.3  |
| 132     | 30.6  | 26.3  | 39.5  |



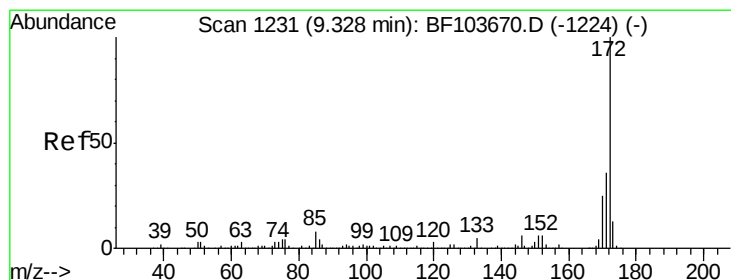
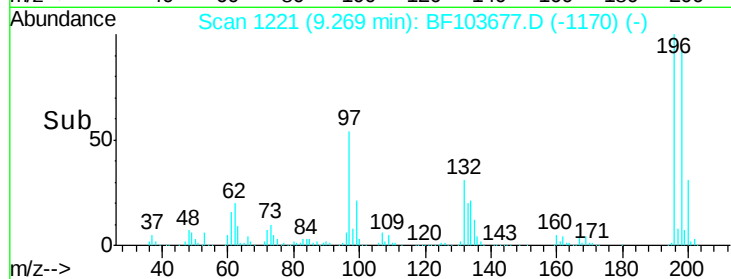
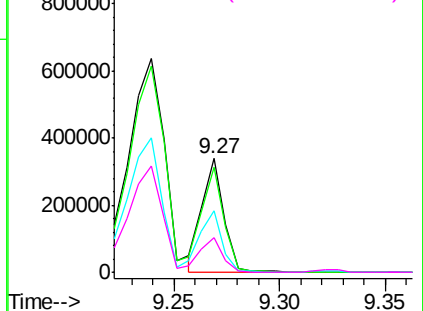
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

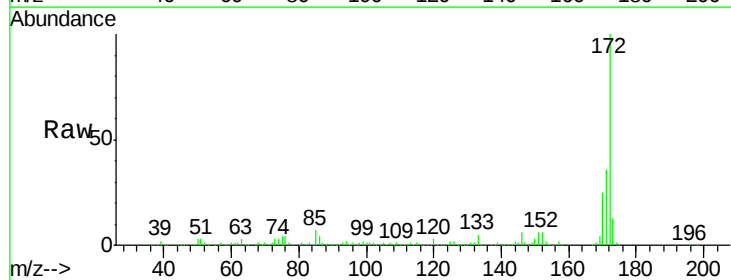
Ion 97.00 (96.70 to 97.70): BF1

Ion 132.00 (131.70 to 132.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 78.142 ng  
 RT: 9.33 min Scan# 1231  
 Delta R.T. 0.00 min  
 Lab File: BF103677.D  
 Acq: 15 Mar 2018 19:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.7  | 44.5  |
| 170     | 24.6  | 19.6  | 29.4  |

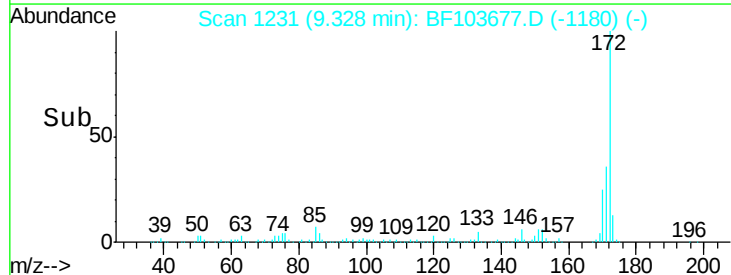
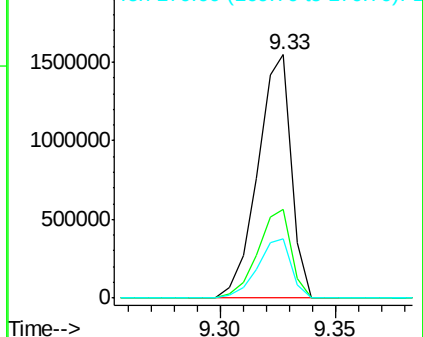


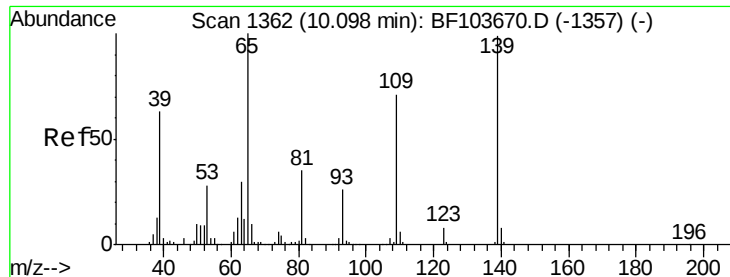
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

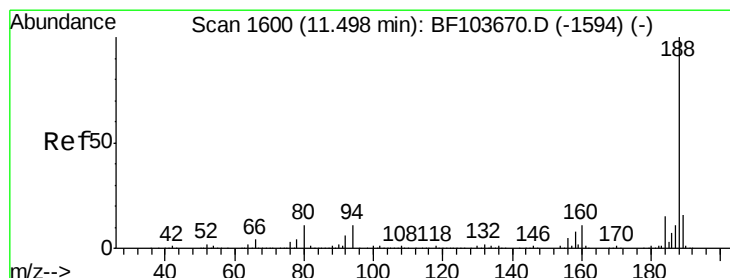
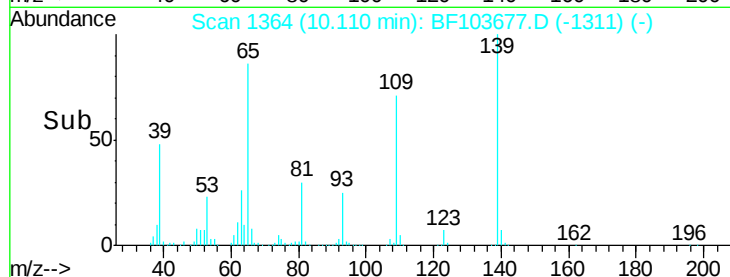
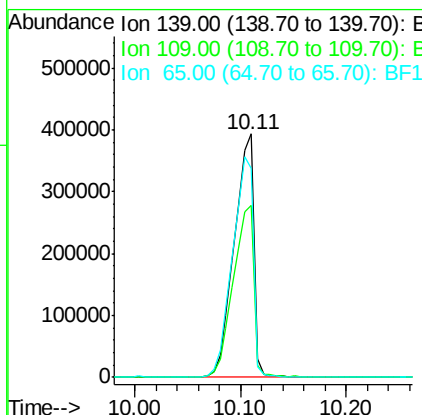
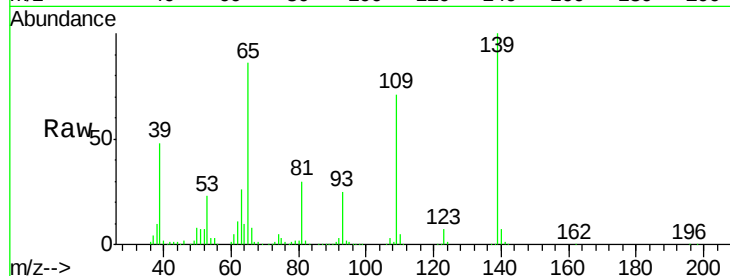




#55  
4-Nitrophenol  
Concen: 110.481 ng  
RT: 10.11 min Scan# 1364  
Delta R.T. 0.01 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

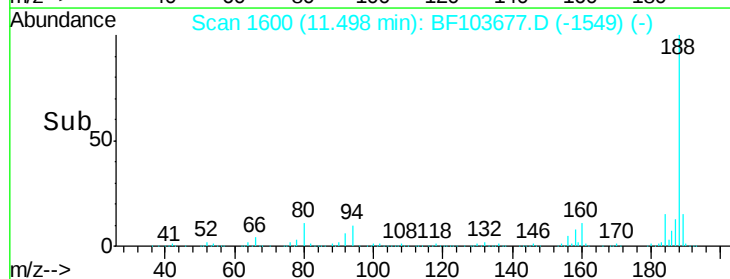
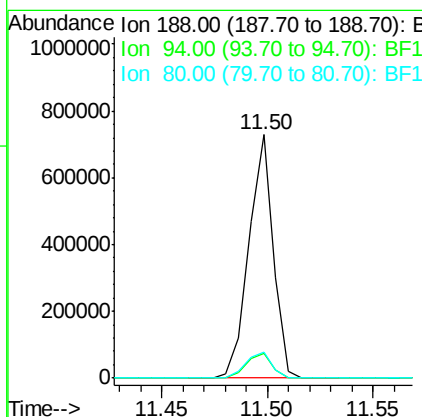
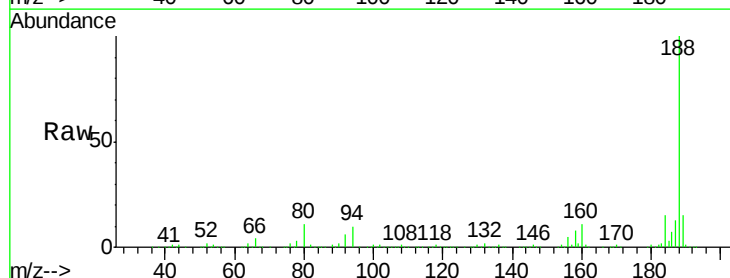
Instrument :  
BNA\_F  
ClientSampleId :  
PT-ACIDS-WP

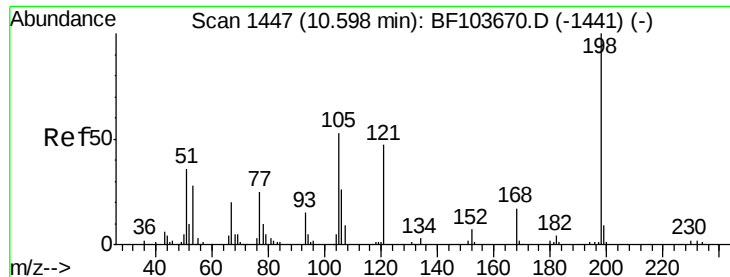
Tot Ion:139 Resp: 501538  
Ion Ratio Lower Upper  
139 100  
109 70.6 48.4 88.4  
65 85.8 72.6 112.6



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

Tgt Ion:188 Resp: 584413  
Ion Ratio Lower Upper  
188 100  
94 10.4 8.5 12.7  
80 10.9 9.2 13.8

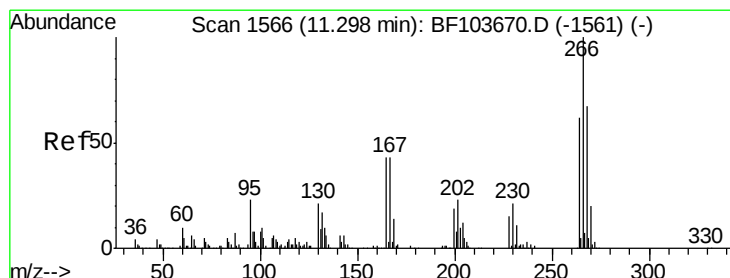
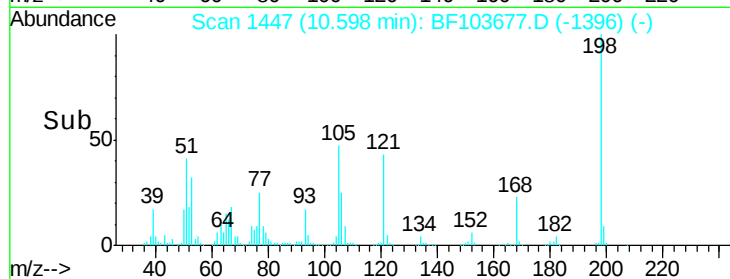
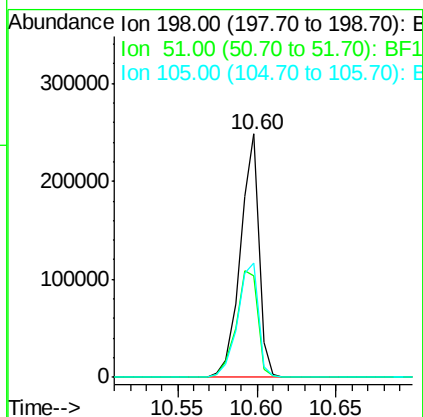
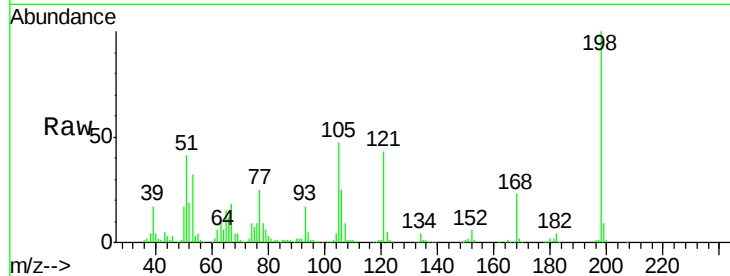




#64  
4,6-Dinitro-2-methylphenol  
Concen: 74.858 ng  
RT: 10.60 min Scan# 1447  
Delta R.T. 0.00 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

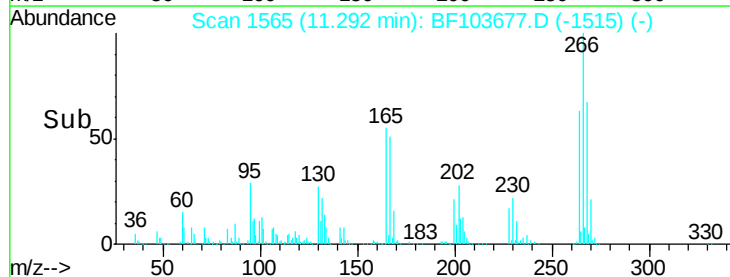
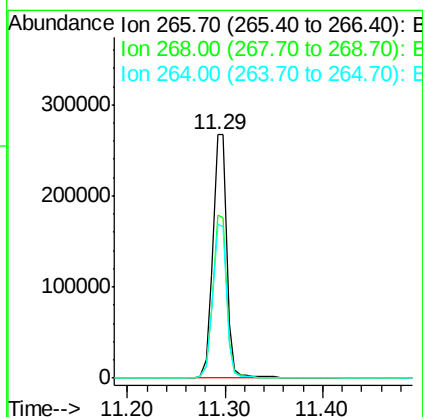
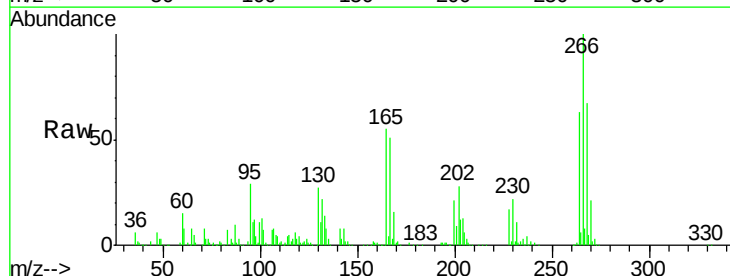
Instrument :  
BNA\_F  
ClientSampleId :  
PT-ACIDS-WP

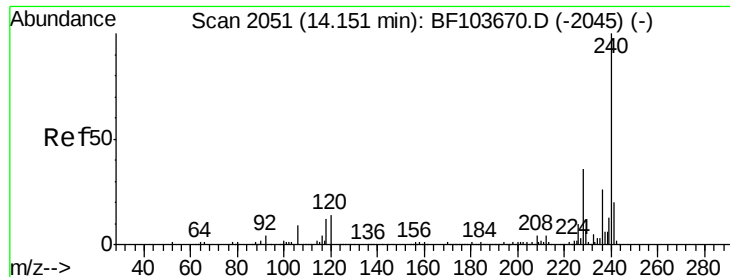
| Tot Ion   | 198  | Resp  | 201786 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 51        | 41.5 | 37.7  | 77.7   |
| 105       | 46.8 | 36.3  | 76.3   |



#69  
Pentachlorophenol  
Concen: 67.987 ng  
RT: 11.29 min Scan# 1565  
Delta R.T. -0.01 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

| Tgt Ion   | 266  | Resp  | 267685 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 268       | 66.9 | 51.1  | 76.7   |
| 264       | 63.3 | 49.5  | 74.3   |





#75

Chrvsene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2050

Delta R.T. -0.01 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

Instrument :

BNA\_F

ClientSampleId :

PT-ACIDS-WP

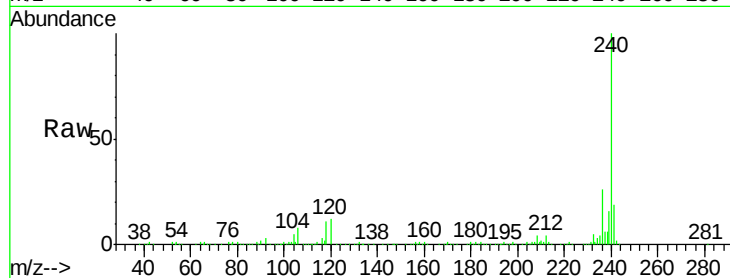
Tot Ion:240 Resp: 506360

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

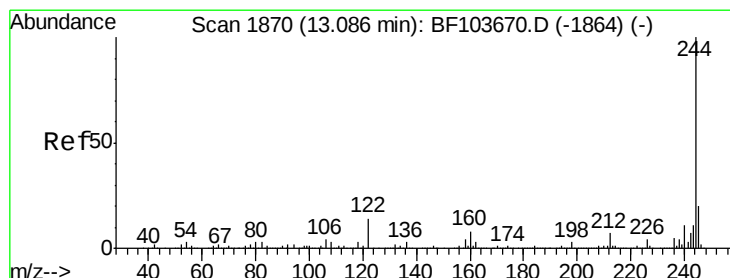
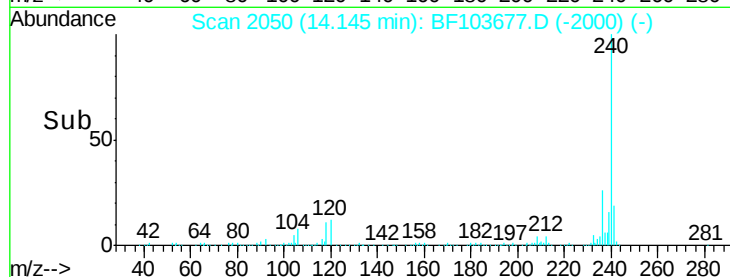
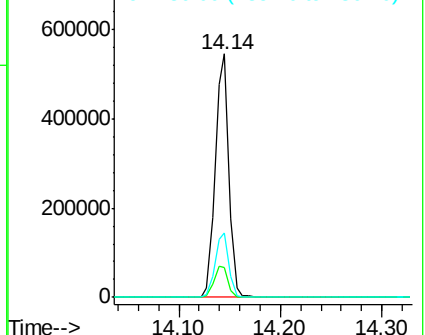
236 26.4 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 76.660 ng

RT: 13.09 min Scan# 1870

Delta R.T. 0.00 min

Lab File: BF103677.D

Acq: 15 Mar 2018 19:21

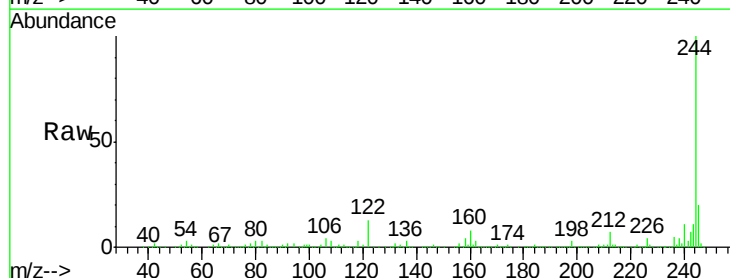
Tgt Ion:244 Resp: 1672348

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

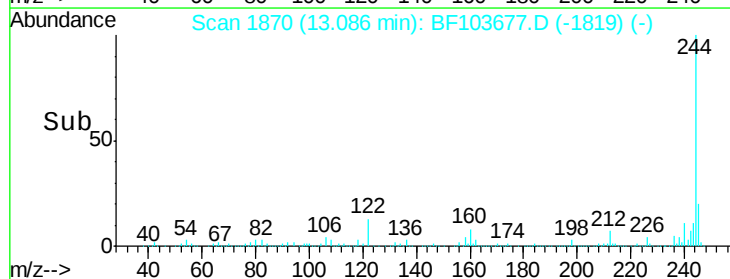
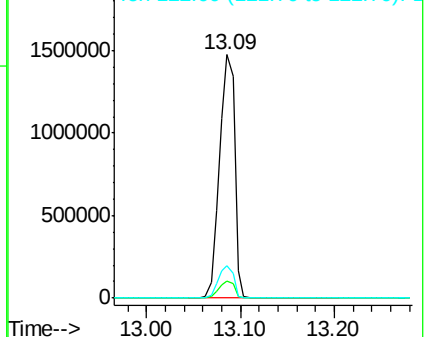
122 13.1 11.0 16.4

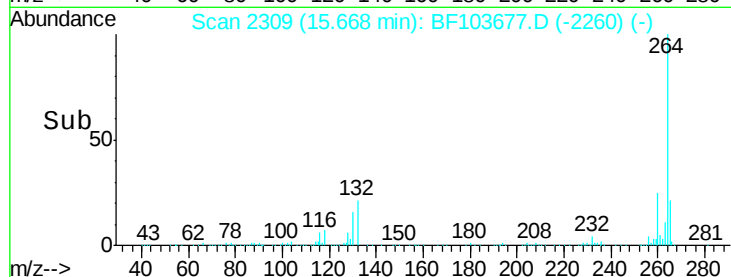
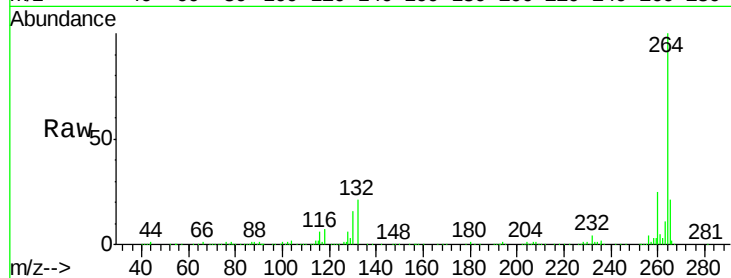
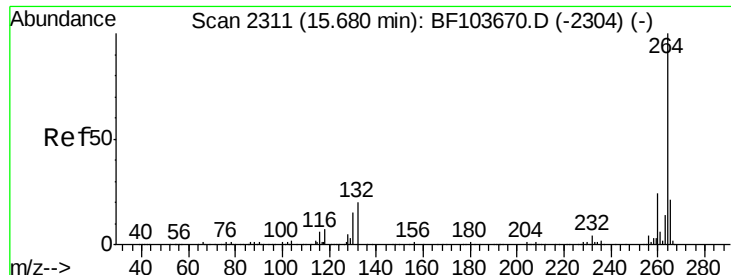


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2309  
Delta R.T. -0.01 min  
Lab File: BF103677.D  
Acq: 15 Mar 2018 19:21

Instrument :  
BNA\_F  
ClientSampleId :  
PT-ACIDS-WP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 19.2  | 28.8  |
| 265     | 21.5  | 17.5  | 26.3  |

