

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122618\  
 Data File : BF111733.D  
 Acq On : 27 Dec 2018 00:13  
 Operator : JU/SJ  
 Sample : J6388-08  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

Quant Time: Dec 27 02:17:26 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.90  | 152  | 141302   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.19  | 136  | 477287   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.94  | 164  | 211372   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.43 | 188  | 376317   | 20.00 | ng    | 0.01     |
| 76) Chrysene-d12          | 14.07 | 240  | 317303   | 20.00 | ng    | 0.02     |
| 87) Perylene-d12          | 15.55 | 264  | 241663   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.55  | 112  | 1082237  | 130.55 | ng    | 0.03     |
| 7) Phenol-d6                | 6.55  | 99   | 1350781  | 128.04 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 843956   | 102.92 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.73 | 330  | 333068   | 133.36 | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 9.26  | 172  | 1302008  | 89.78  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.01 | 244  | 1217542  | 72.77  | ng    | 0.01     |

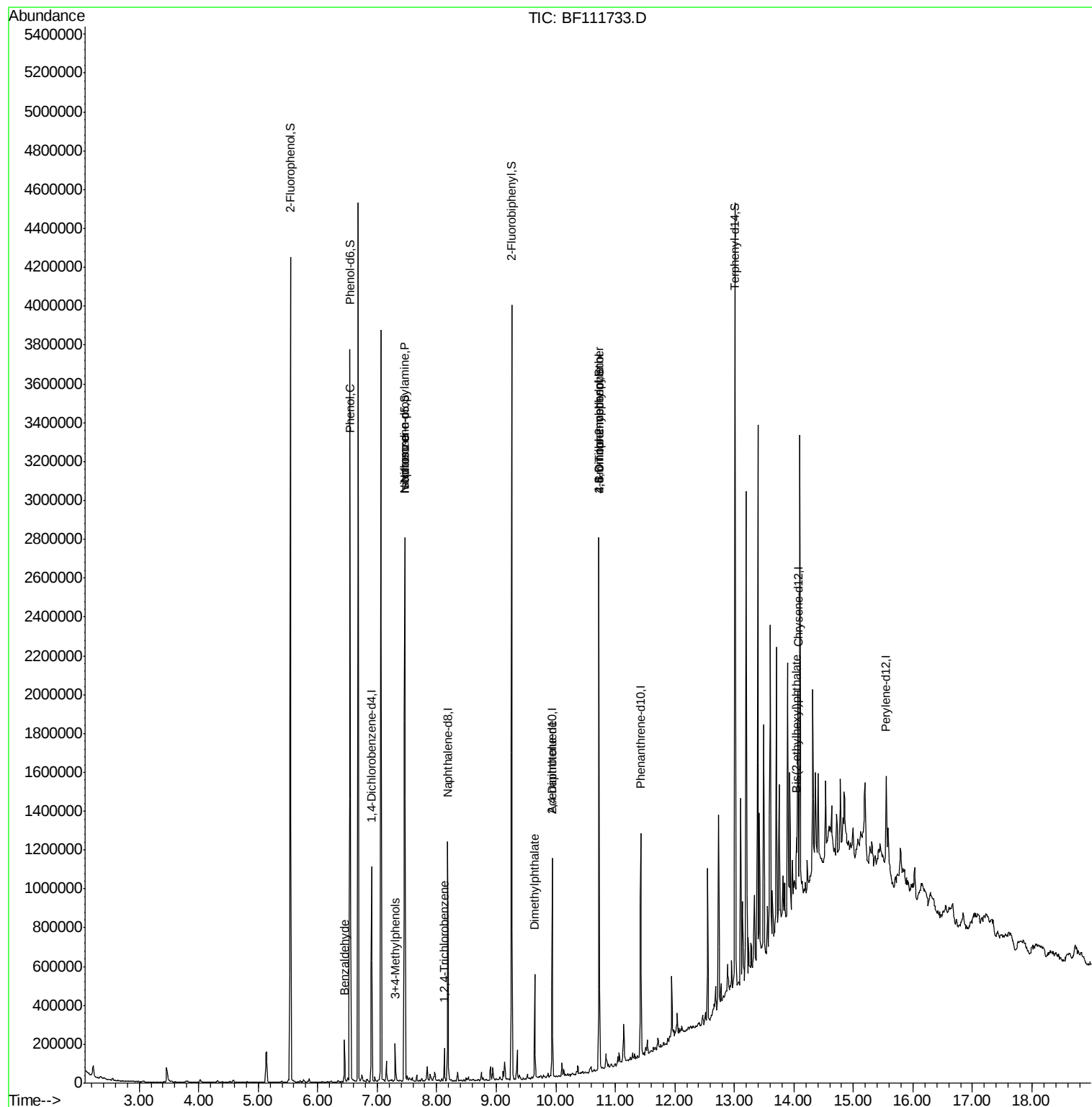
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.45  | 77   | 36194    | 4.988  | ng    | 100    |
| 10) Phenol                     | 6.56  | 94   | 110581   | 9.290  | ng    | 99     |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 115243   | 16.448 | ng    | # 79   |
| 20) 3+4-Methylphenols          | 7.30  | 107  | 43820    | 4.716  | ng    | # 57   |
| 25) Isophorone                 | 7.46  | 82   | 841313   | 57.795 | ng    | # 64   |
| 30) 1,2,4-Trichlorobenzene     | 8.13  | 180  | 25732    | 3.125  | ng    | 92     |
| 50) Dimethylphthalate          | 9.65  | 163  | 206165   | 13.338 | ng    | 97     |
| 57) 2,4-Dinitrotoluene         | 9.94  | 165  | 29381    | 7.932  | ng    | # 25   |
| 65) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 808      | 7.140  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.73 | 248  | 20678    | 4.430  | ng    | # 1    |
| 84) Bis(2-ethylhexyl)phthalate | 14.04 | 149  | 23215    | 2.018  | ng    | # 93   |

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

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QLast Update : Wed Dec 19 17:39:39 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.90 min Scan# 819

Delta R.T. 0.01 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Instrument :

BNA\_F

ClientSampleId :

P001-SS009-1218-01

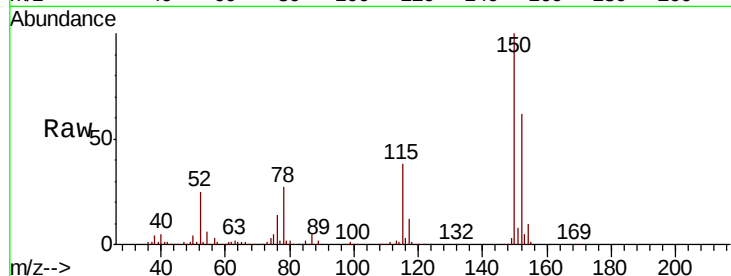
Tot Ion:152 Resp: 141302

Ion Ratio Lower Upper

152 100

150 161.0 126.6 189.8

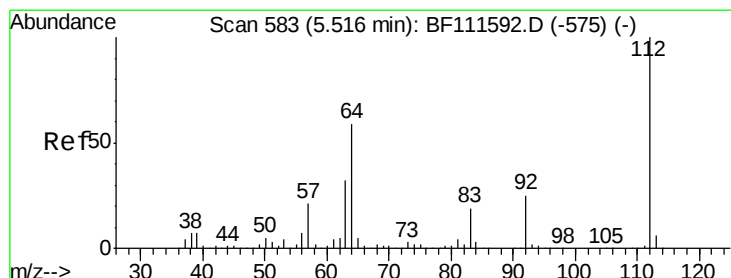
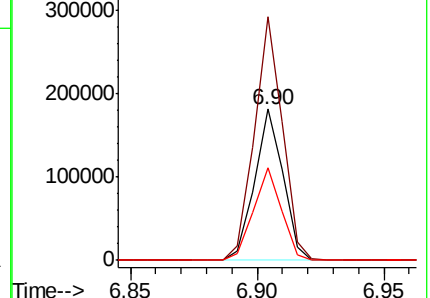
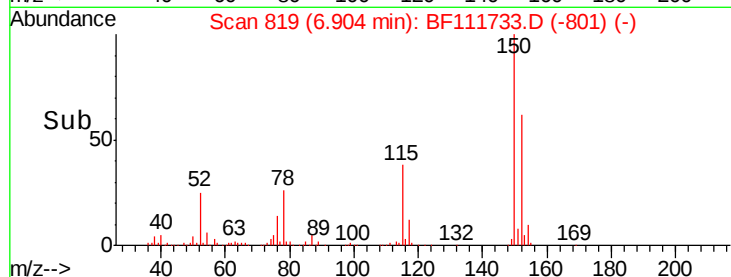
115 60.8 50.7 76.1



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: 130.551 ng

RT: 5.55 min Scan# 588

Delta R.T. 0.03 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

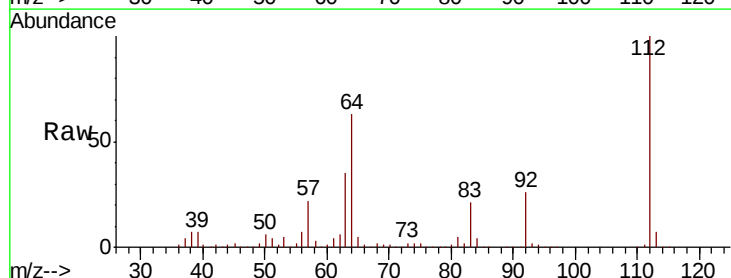
Tgt Ion:112 Resp: 1082237

Ion Ratio Lower Upper

112 100

64 62.8 51.8 77.6

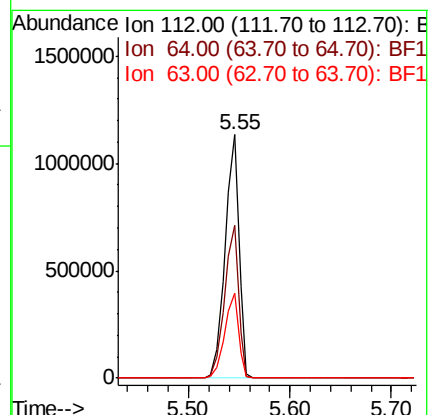
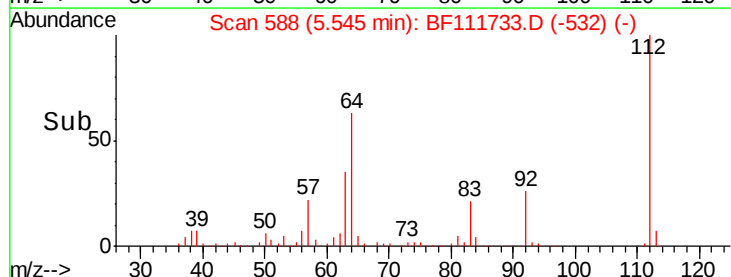
63 34.9 26.8 40.2

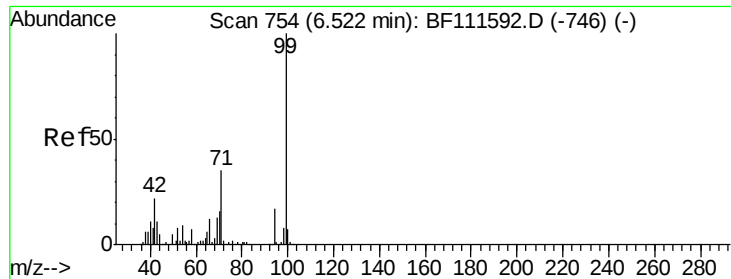


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 128.036 ng

RT: 6.55 min Scan# 758

Delta R.T. 0.02 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Instrument :

BNA\_F

ClientSampleId :

P001-SS009-1218-01

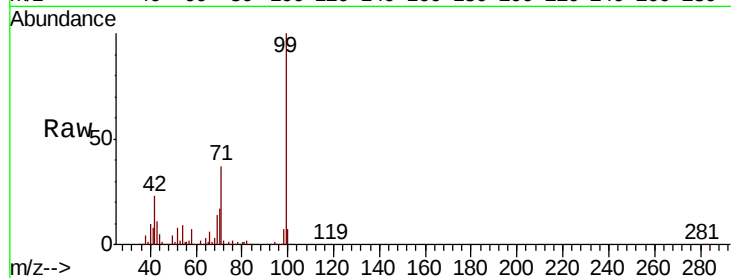
Tot Ion: 99 Resp: 1350781

Ion Ratio Lower Upper

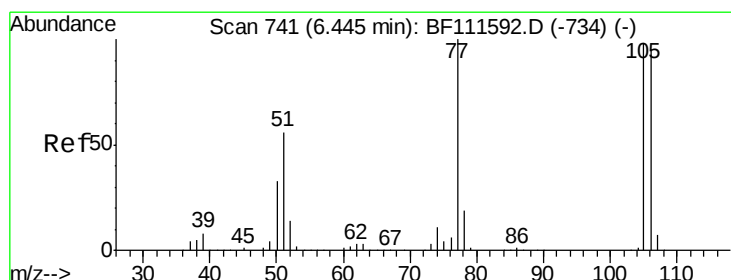
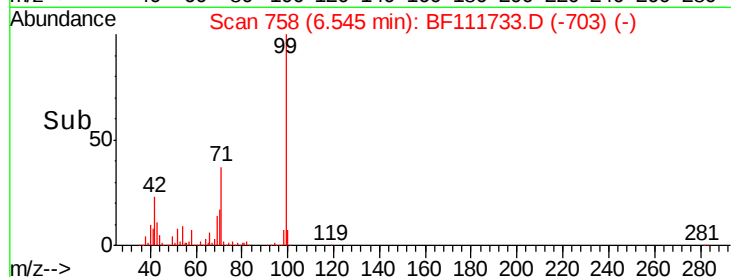
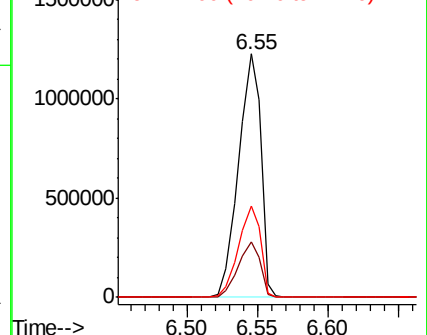
99 100

42 23.0 17.4 26.0

71 37.5 26.1 39.1



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



#9

Benzaldehyde

Concen: 4.988 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.01 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

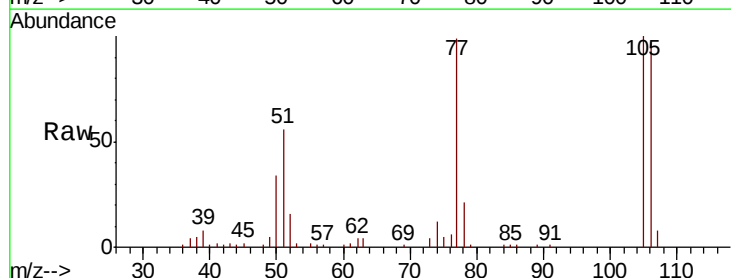
Tgt Ion: 77 Resp: 36194

Ion Ratio Lower Upper

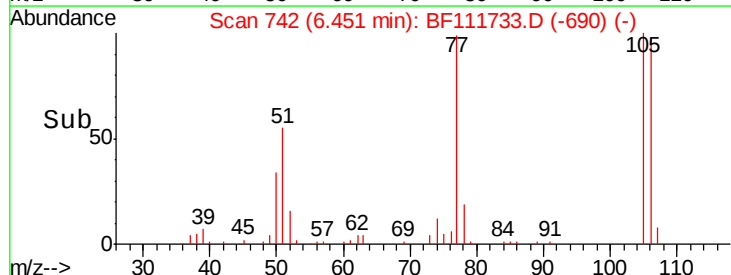
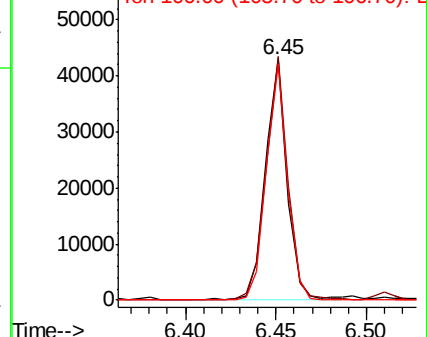
77 100

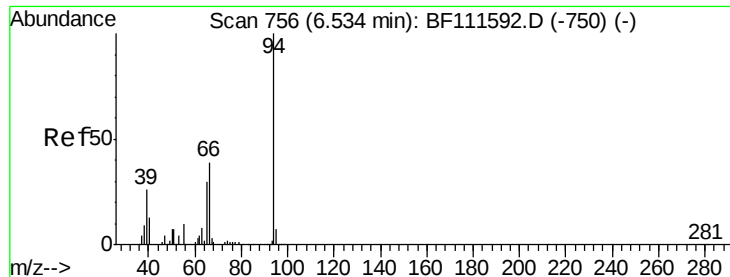
105 101.0 81.4 121.4

106 97.8 77.9 117.9



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 9.290 ng

RT: 6.56 min Scan# 760

Delta R.T. 0.02 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Instrument :

BNA\_F

ClientSampleId :

P001-SS009-1218-01

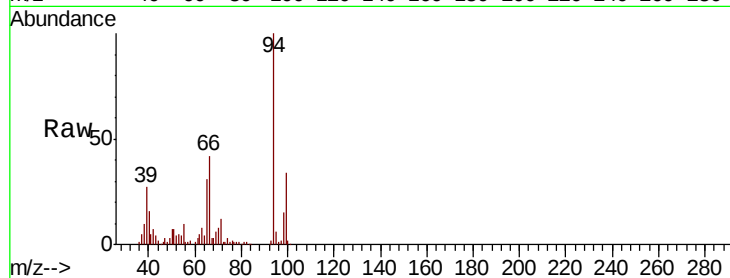
Tot Ion: 94 Resp: 110581

Ion Ratio Lower Upper

94 100

65 30.6 11.7 51.7

66 41.5 21.0 61.0

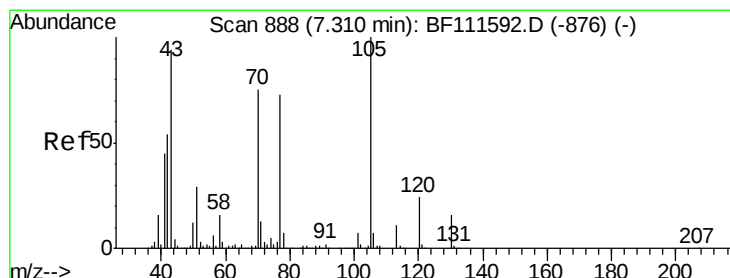
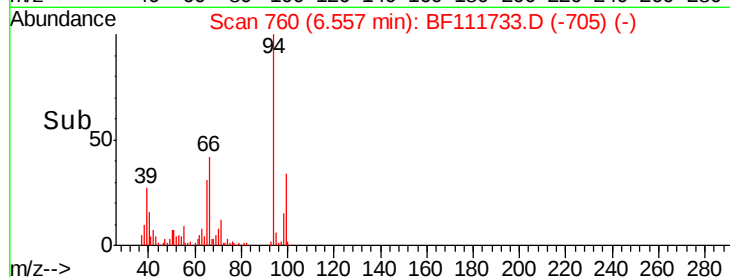
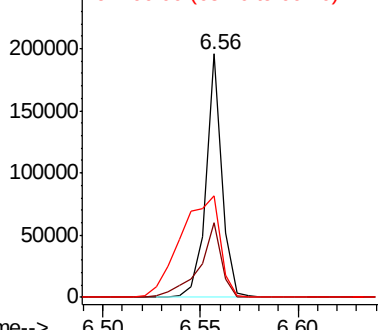


Abundance

Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 16.448 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.15 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Tgt Ion: 70 Resp: 115243

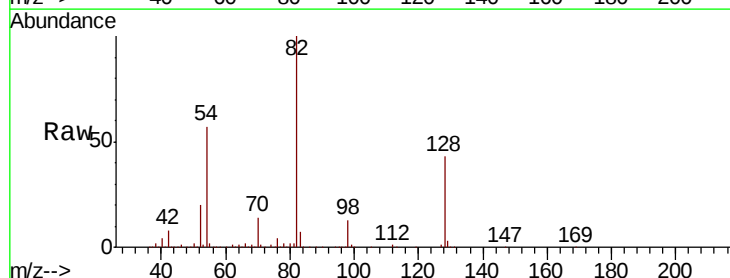
Ion Ratio Lower Upper

70 100

42 55.8 53.2 79.8

101 0.0 8.2 12.4#

130 2.1 18.1 27.1#



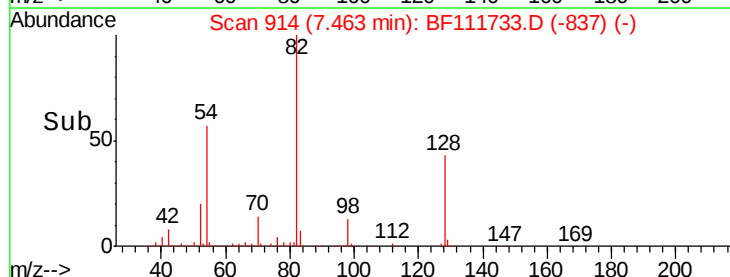
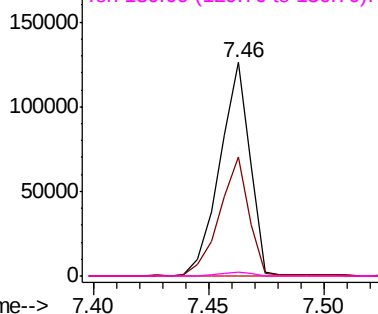
Abundance

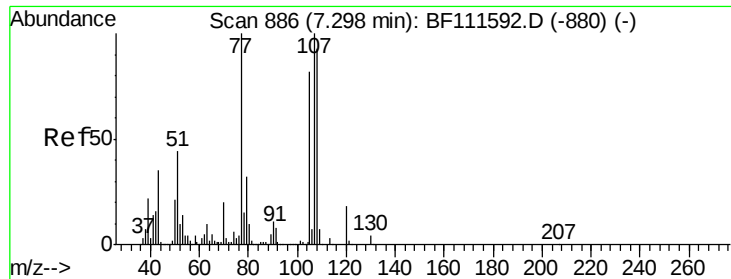
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

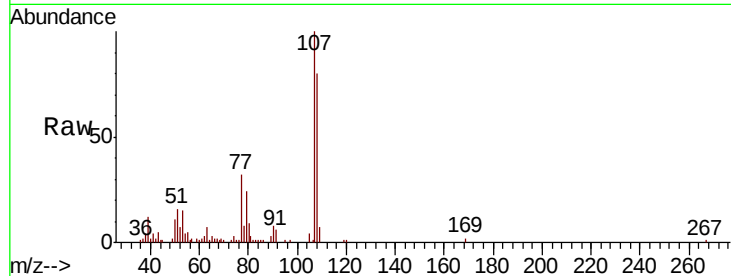




#20  
3+4-Methylphenols  
Concen: 4.716 ng  
RT: 7.30 min Scan# 887  
Delta R.T. 0.01 min  
Lab File: BF111733.D  
Acq: 27 Dec 2018 00:13

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS009-1218-01

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 80.5  | 72.1  | 112.1  |
| 77      | 32.3  | 94.1  | 134.1# |
| 79      | 24.1  | 9.8   | 49.8   |



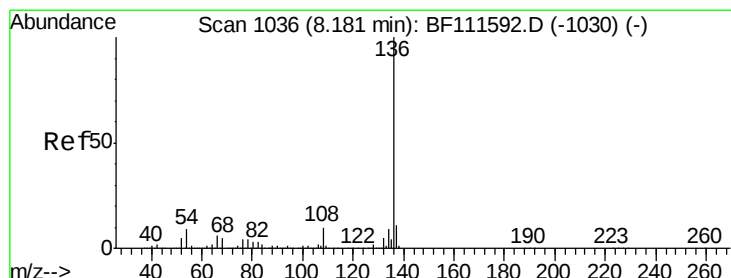
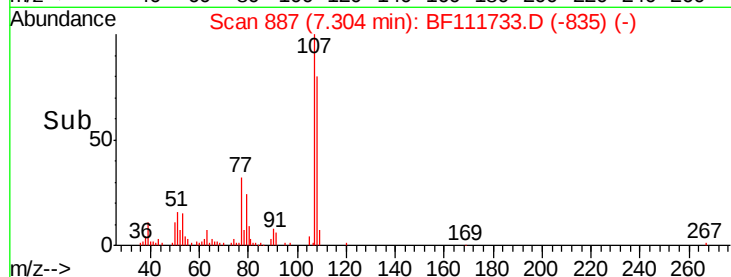
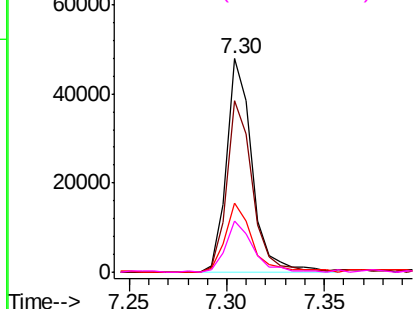
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.19 min Scan# 1037  
Delta R.T. 0.01 min  
Lab File: BF111733.D  
Acq: 27 Dec 2018 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.9  | 9.1   | 13.7  |
| 54      | 8.3   | 7.7   | 11.5  |
| 68      | 4.9   | 4.9   | 7.3   |

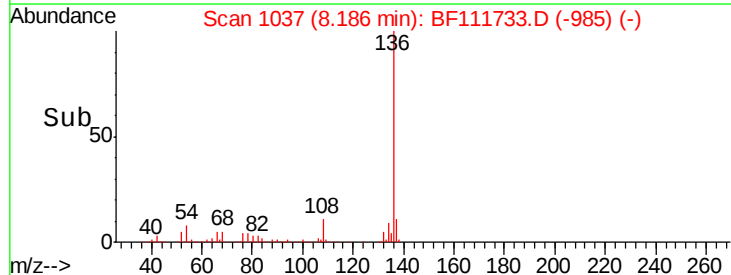
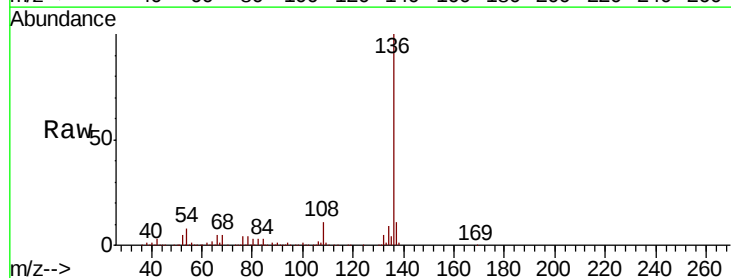
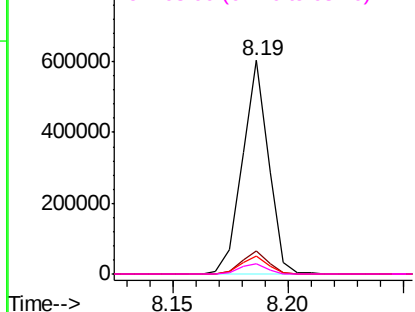
Abundance

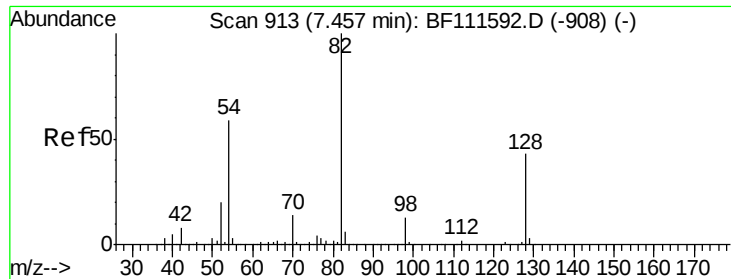
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

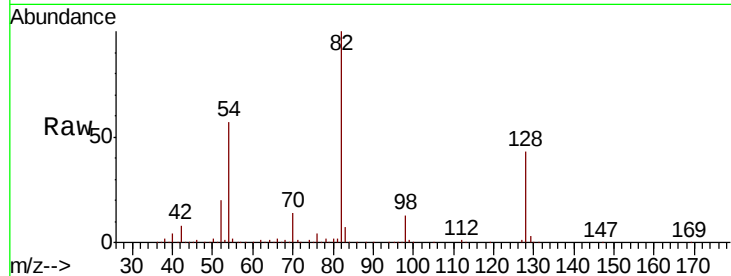




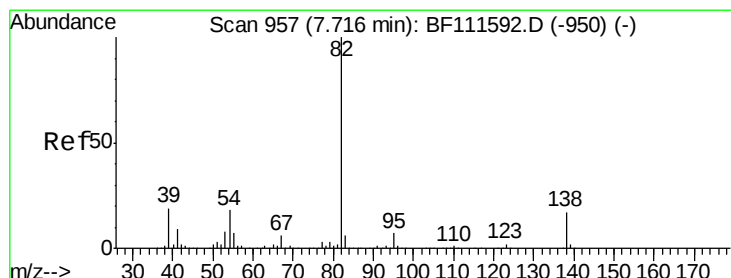
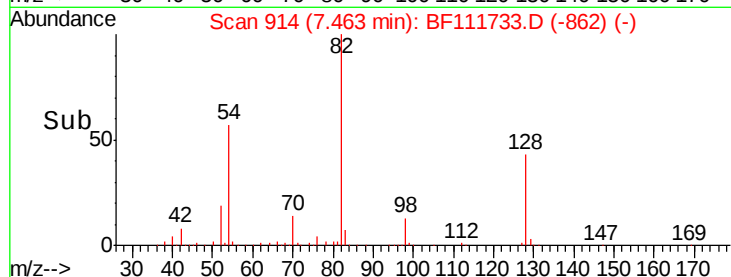
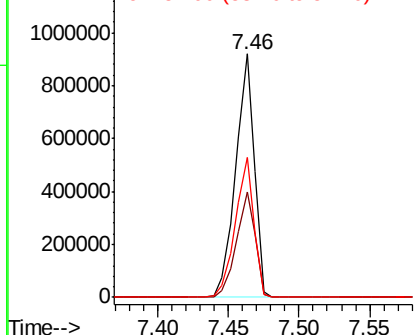
#23  
 Nitrobenzene-d5  
 Concen: 102.925 ng  
 RT: 7.46 min Scan# 914  
 Delta R.T. 0.01 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

| Tot Ion   | 82    | Resp  | 843956 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.3  | 37.4  | 56.2   |
| 54        | 57.5  | 47.6  | 71.4   |

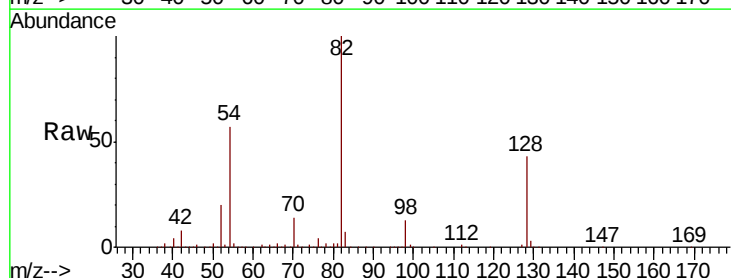


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

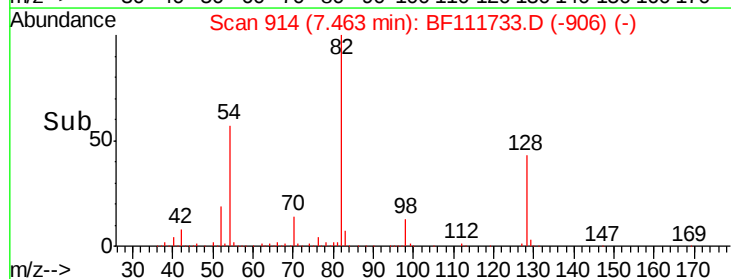
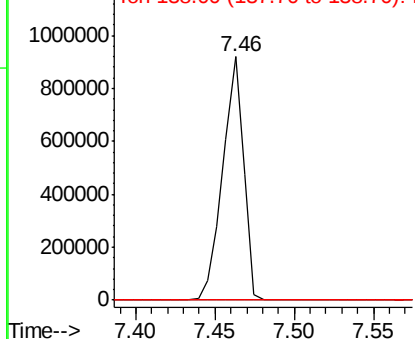


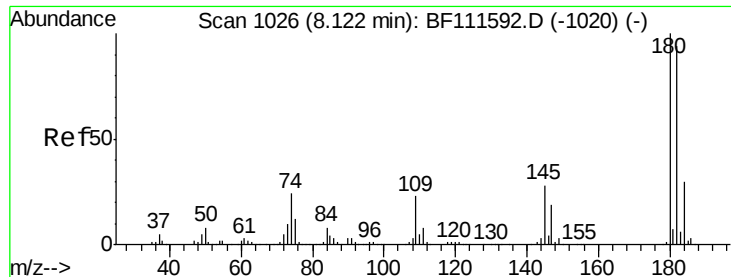
#25  
 Isophorone  
 Concen: 57.795 ng  
 RT: 7.46 min Scan# 914  
 Delta R.T. -0.25 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

| Tgt Ion   | 82    | Resp  | 841313 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.4   | 8.2#   |
| 138       | 0.0   | 15.1  | 22.7#  |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1

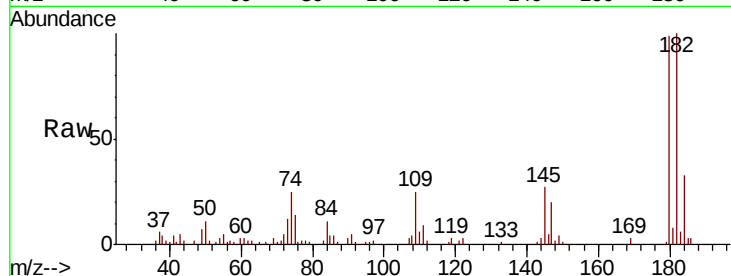




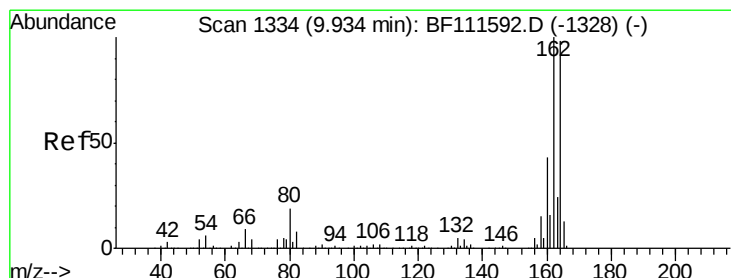
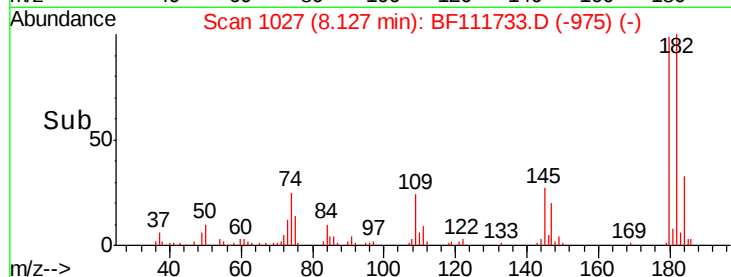
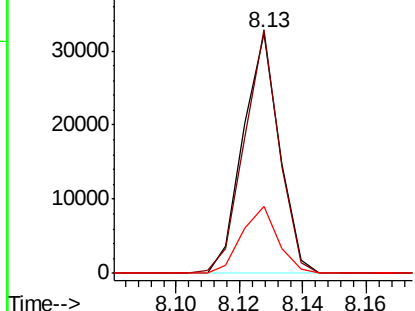
#30  
 1,2,4-Trichlorobenzene  
 Concen: 3.125 ng  
 RT: 8.13 min Scan# 1027  
 Delta R.T. 0.01 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

Tot Ion:180 Resp: 25732  
 Ion Ratio Lower Upper  
 180 100  
 182 101.4 75.6 113.4  
 145 27.7 26.7 40.1

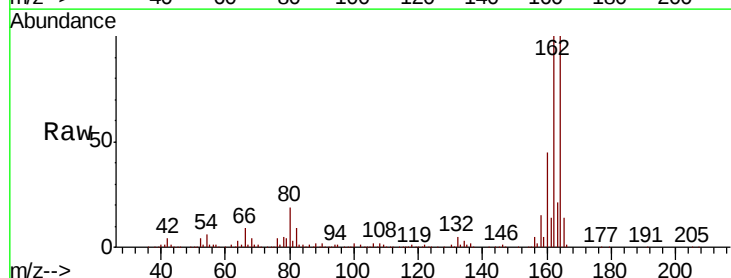


Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E

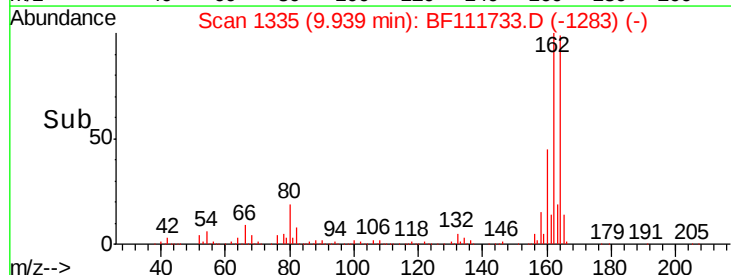
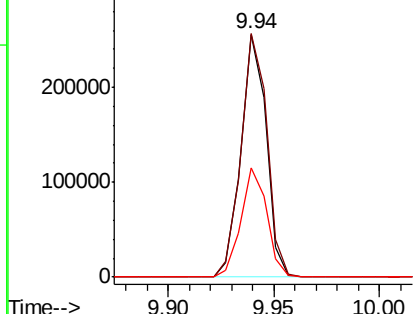


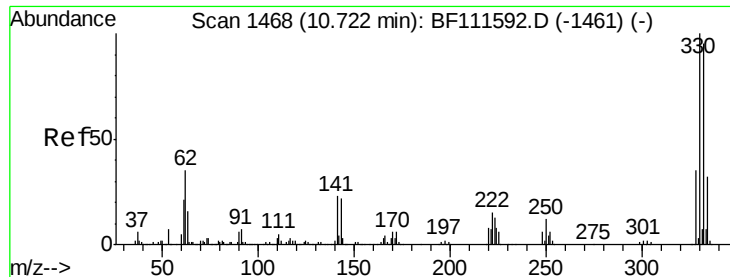
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.94 min Scan# 1335  
 Delta R.T. 0.01 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

Tgt Ion:164 Resp: 211372  
 Ion Ratio Lower Upper  
 164 100  
 162 100.3 81.4 122.0  
 160 45.0 35.7 53.5



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

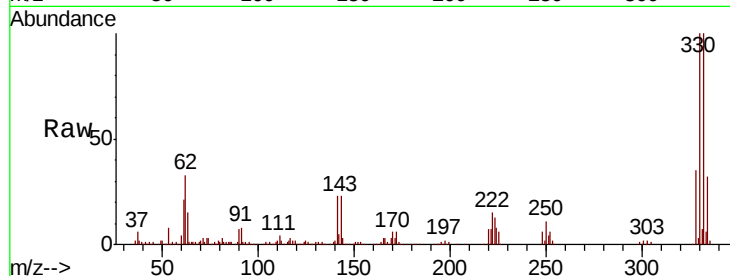




#42  
 2,4,6-Tribromophenol  
 Concen: 133.359 ng  
 RT: 10.73 min Scan# 1470  
 Delta R.T. 0.01 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.0  | 114.0 |
| 141     | 31.3  | 31.0  | 46.6  |

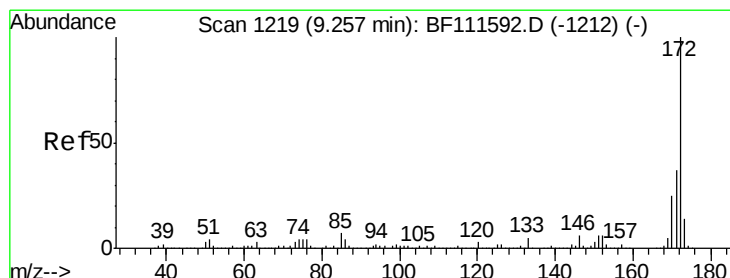
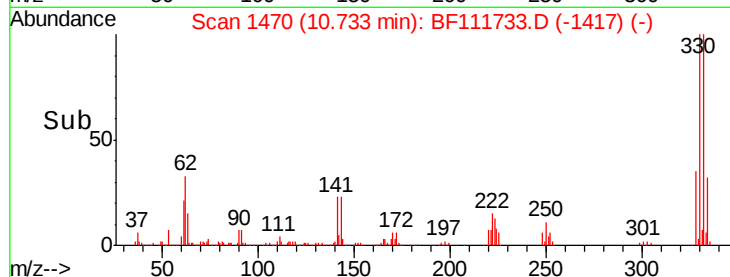
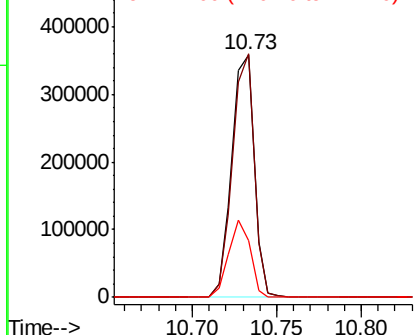


Abundance

Ion 329.80 (329.50 to 330.50): E

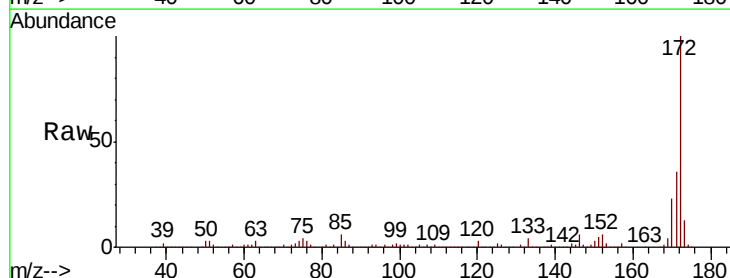
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 89.784 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. 0.01 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 33.0  | 49.4  |
| 170     | 23.5  | 22.3  | 33.5  |

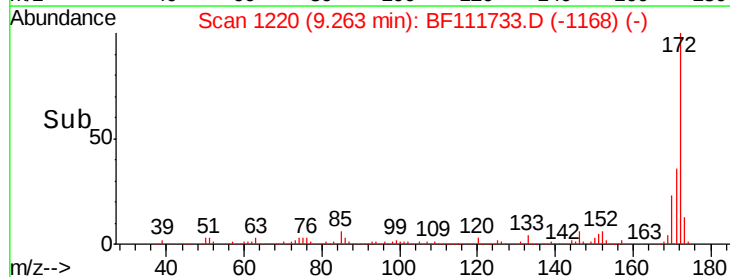
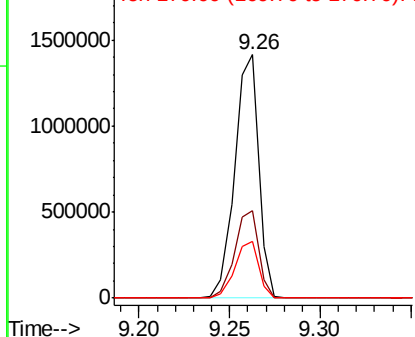


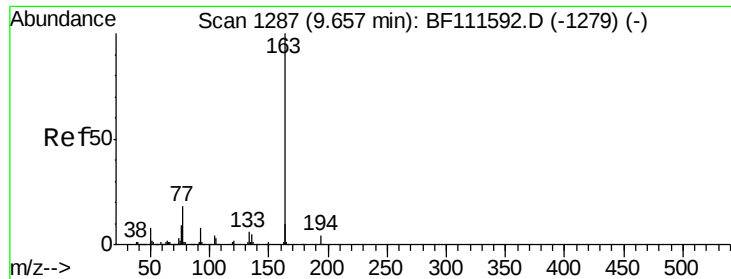
Abundance

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





#50

Dimethylphthalate

Concen: 13.338 ng

RT: 9.65 min Scan# 1286

Delta R.T. -0.01 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Instrument :

BNA\_F

ClientSampleId :

P001-SS009-1218-01

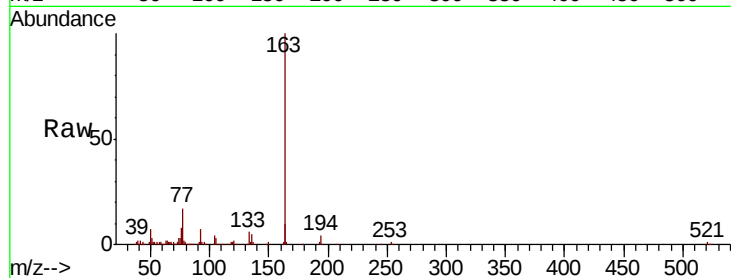
Tot Ion:163 Resp: 206165

Ion Ratio Lower Upper

163 100

194 4.3 3.0 4.6

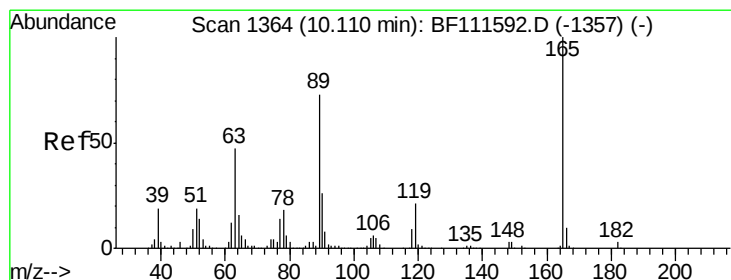
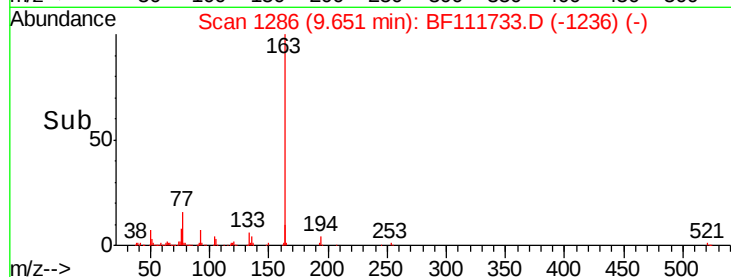
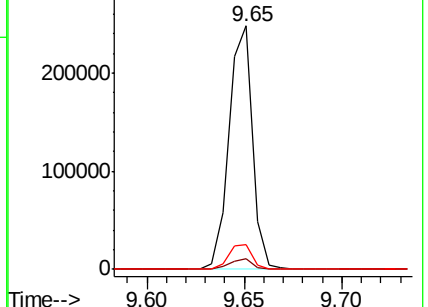
164 9.9 8.9 13.3



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 7.932 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.17 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Tgt Ion:165 Resp: 29381

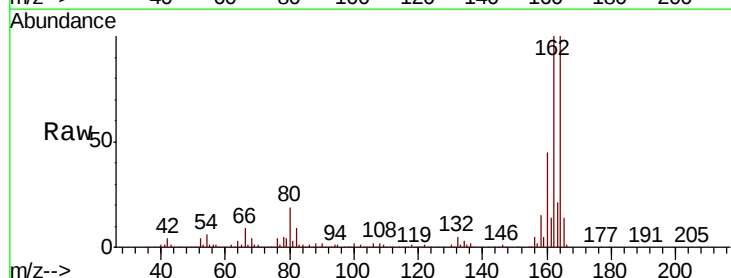
Ion Ratio Lower Upper

165 100

63 1.2 34.6 52.0#

89 1.8 56.2 84.4#

182 0.0 1.8 2.6#

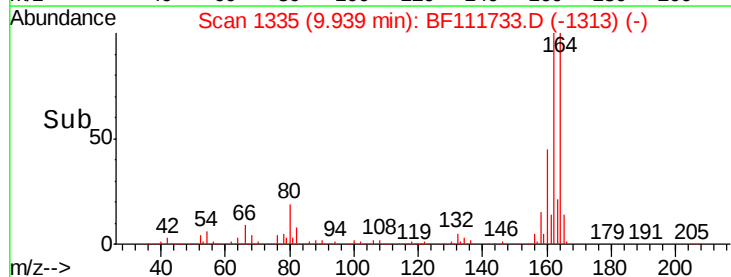
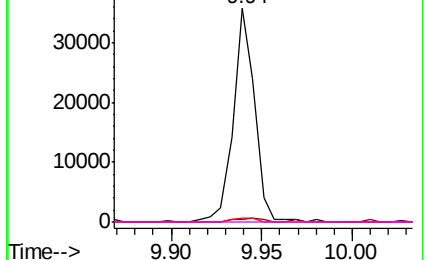


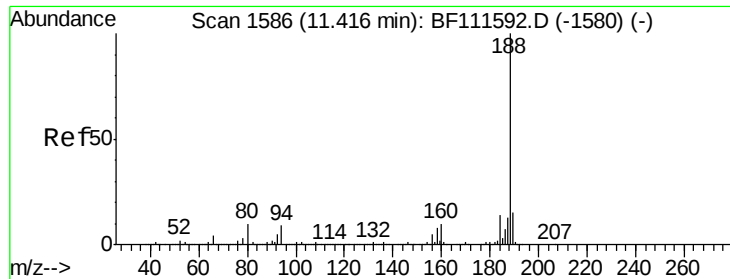
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

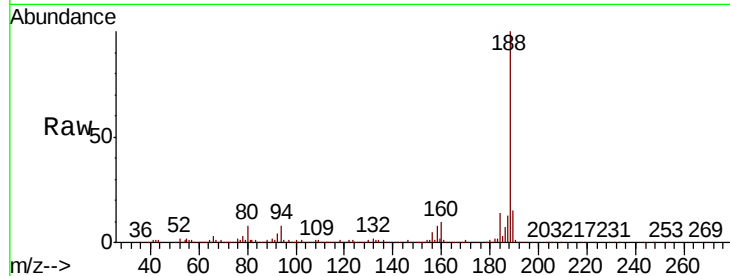




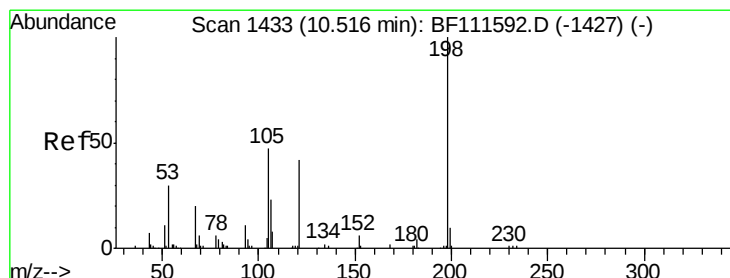
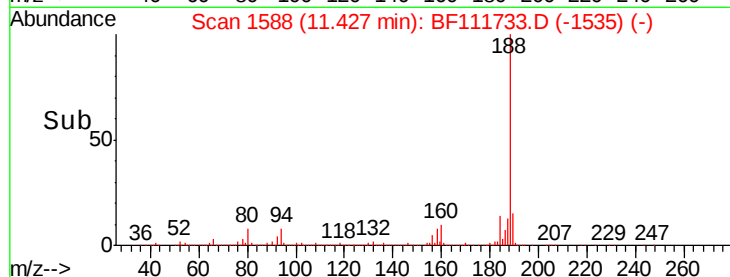
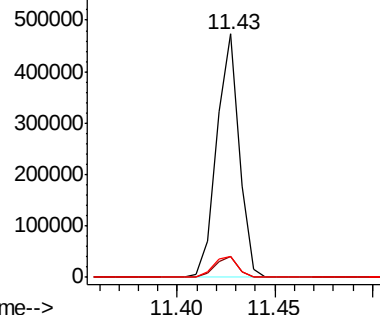
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. 0.01 min  
Lab File: BF111733.D  
Acq: 27 Dec 2018 00:13

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS009-1218-01

Tot Ion:188 Resp: 376317  
Ion Ratio Lower Upper  
188 100  
94 8.5 9.6 14.4#  
80 8.5 9.8 14.6#

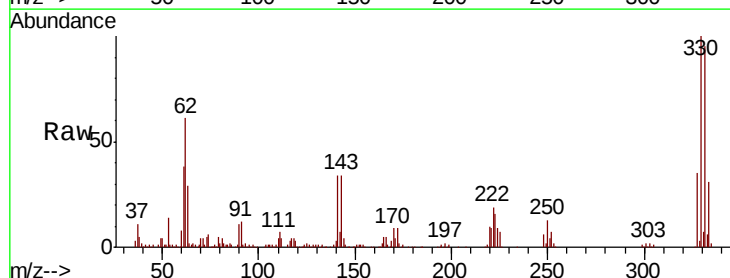


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

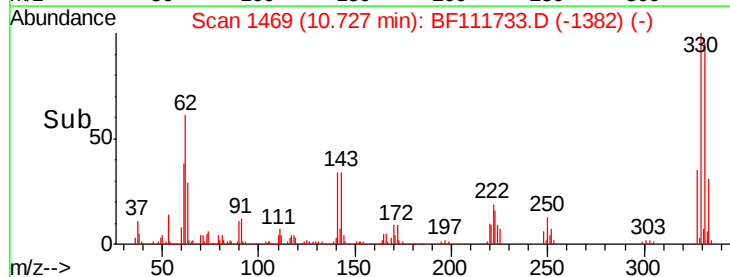
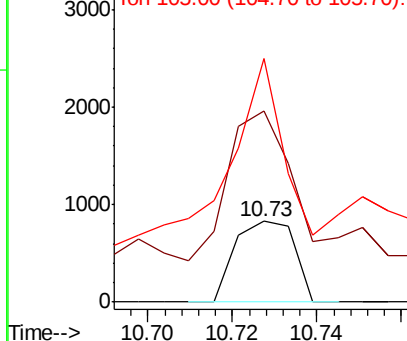


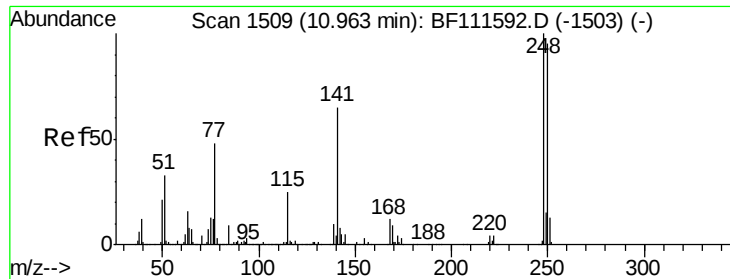
#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.140 ng  
RT: 10.73 min Scan# 1469  
Delta R.T. 0.21 min  
Lab File: BF111733.D  
Acq: 27 Dec 2018 00:13

Tgt Ion:198 Resp: 808  
Ion Ratio Lower Upper  
198 100  
51 238.1 48.0 88.0#  
105 302.8 34.0 74.0#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

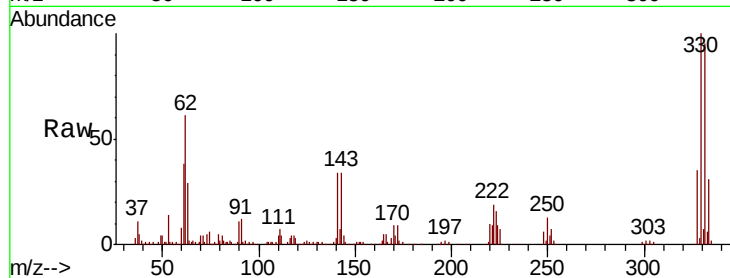




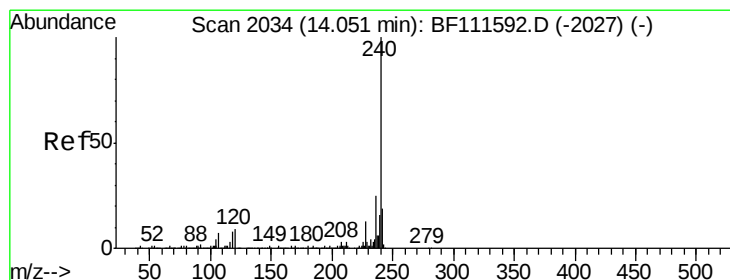
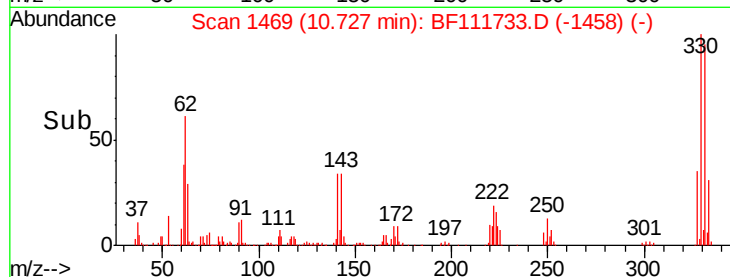
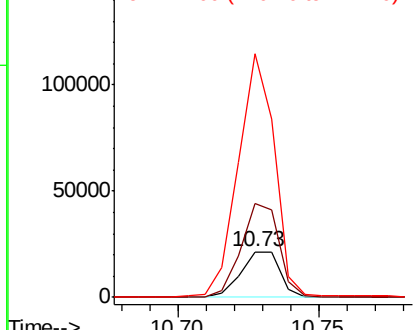
#67  
4-Bromophenyl-phenylether  
Concen: 4.430 ng  
RT: 10.73 min Scan# 1469  
Delta R.T. -0.24 min  
Lab File: BF111733.D  
Acq: 27 Dec 2018 00:13

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS009-1218-01

Tot Ion:248 Resp: 20678  
Ion Ratio Lower Upper  
248 100  
250 208.8 77.0 115.4#  
141 538.4 63.0 94.6#

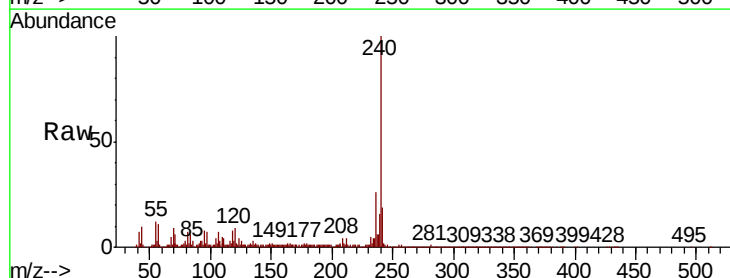


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

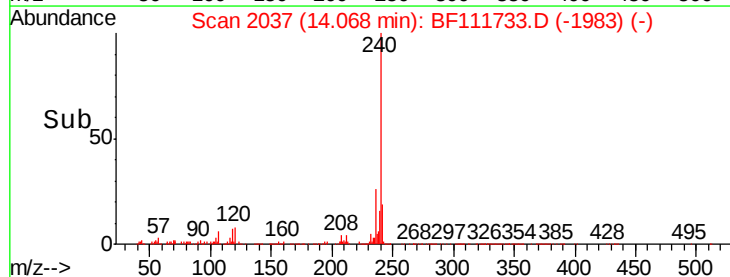
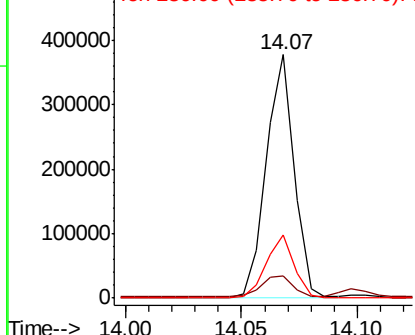


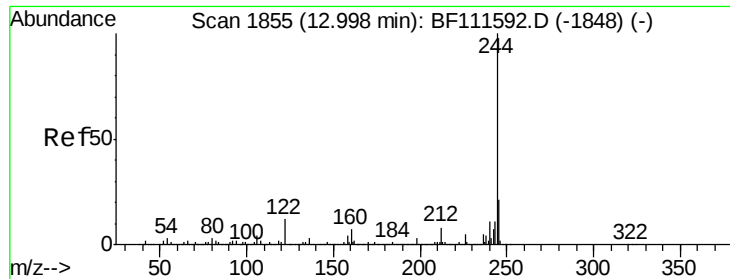
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. 0.02 min  
Lab File: BF111733.D  
Acq: 27 Dec 2018 00:13

Tgt Ion:240 Resp: 317303  
Ion Ratio Lower Upper  
240 100  
120 9.4 12.2 18.2#  
236 25.8 20.2 30.2



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





#79

Terphenyl-d14

Concen: 72.769 ng

RT: 13.01 min Scan# 1857

Delta R.T. 0.01 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

Instrument :

BNA\_F

ClientSampleId :

P001-SS009-1218-01

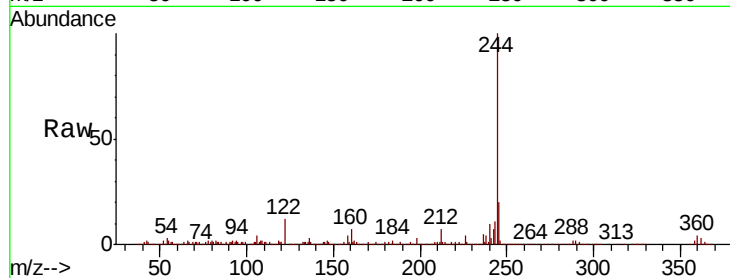
Tot Ion:244 Resp: 1217542

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

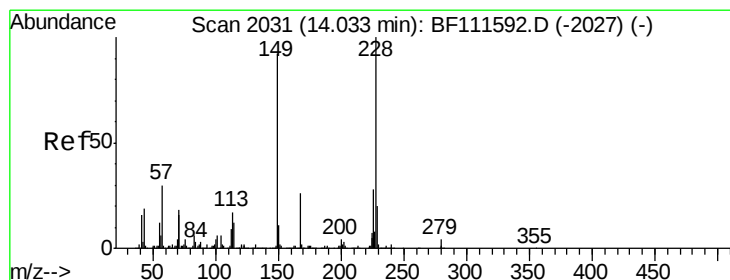
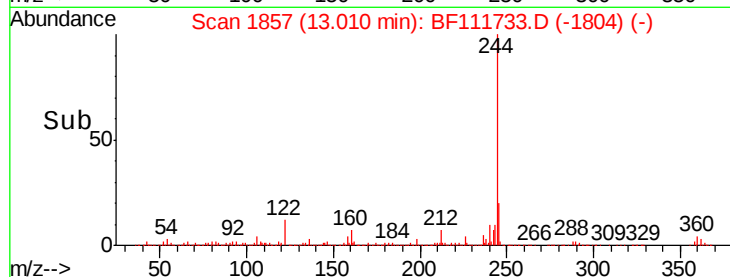
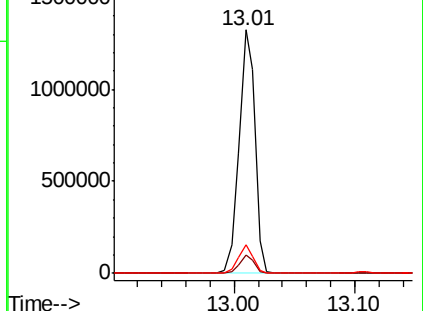
122 11.6 13.1 19.7#



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.018 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF111733.D

Acq: 27 Dec 2018 00:13

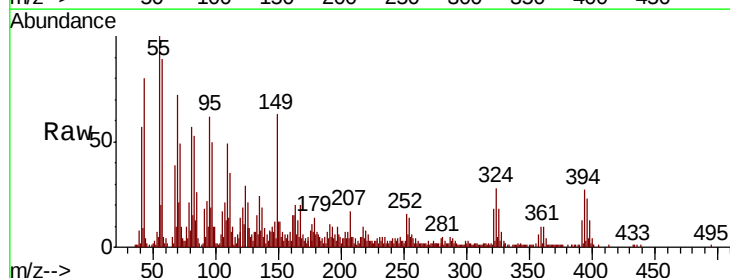
Tgt Ion:149 Resp: 23215

Ion Ratio Lower Upper

149 100

167 31.6 22.5 33.7

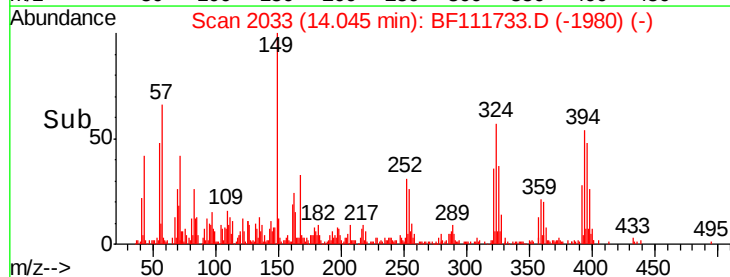
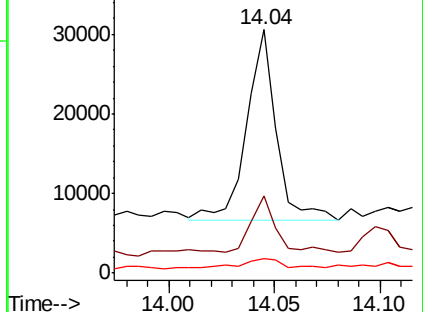
279 6.0 2.6 4.0#

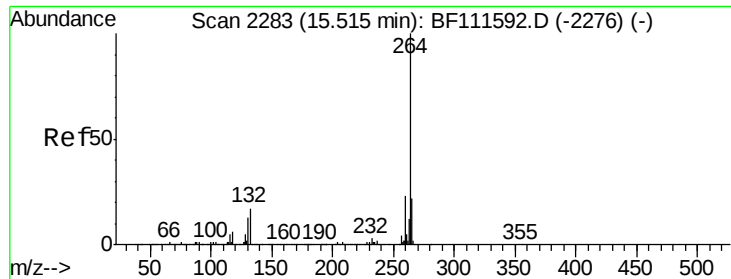


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

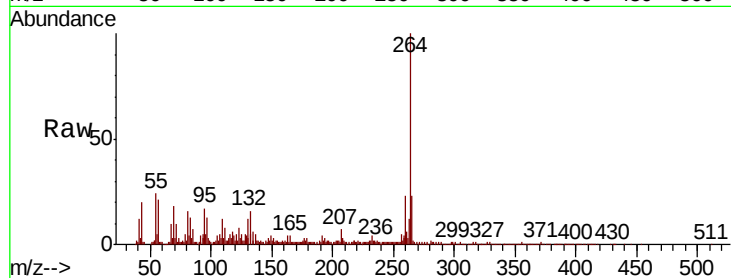




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.55 min Scan# 2289  
 Delta R.T. 0.04 min  
 Lab File: BF111733.D  
 Acq: 27 Dec 2018 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 18.3  | 27.5  |
| 265     | 22.6  | 17.7  | 26.5  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

