

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\  
 Data File : BF118172.D  
 Acq On : 10 Dec 2019 19:30  
 Operator : JU  
 Sample : K6204-14  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 11 02:35:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

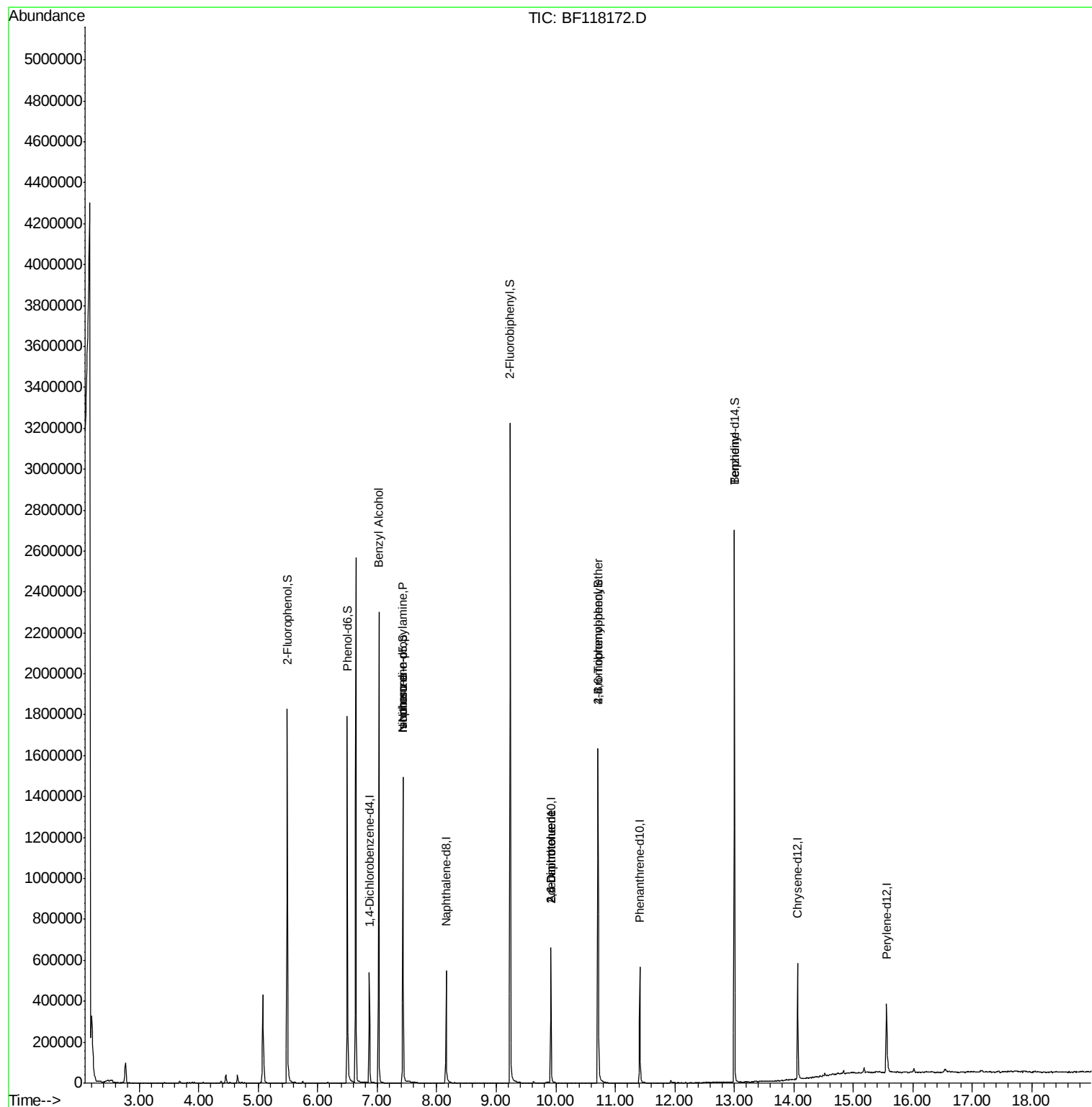
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 73899    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 272966   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 9.92  | 164  | 133436   | 20.00     | ng     | 0.00     |
| 64) Phenanthrene-d10           | 11.41 | 188  | 221653   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 14.06 | 240  | 189404   | 20.00     | ng     | 0.00     |
| 87) Perylene-d12               | 15.56 | 264  | 177157   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 568207   | 134.67    | ng     | 0.01     |
| 7) Phenol-d6                   | 6.50  | 99   | 630132   | 123.47    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 447075   | 92.14     | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.71 | 330  | 215179   | 132.74    | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 909000   | 103.66    | ng     | 0.00     |
| 79) Terphenyl-d14              | 13.00 | 244  | 968610   | 87.94     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.50  | 77   | 1026     | Below Cal | Qvalue | # 1      |
| 15) Benzyl Alcohol             | 7.03  | 79   | 8137     | 2.043 ng  | #      | 45       |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 61165    | 19.724 ng | #      | 78       |
| 25) Isophorone                 | 7.43  | 82   | 442005   | 53.737 ng | #      | 62       |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 16351    | 7.629 ng  | #      | 27       |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 16351    | 5.716 ng  | #      | 25       |
| 67) 4-Bromophenyl-phenylether  | 10.71 | 248  | 13648    | 5.394 ng  | #      | 1        |
| 77) Benzydine                  | 13.00 | 184  | 13017    | 2.611 ng  | #      | 92       |

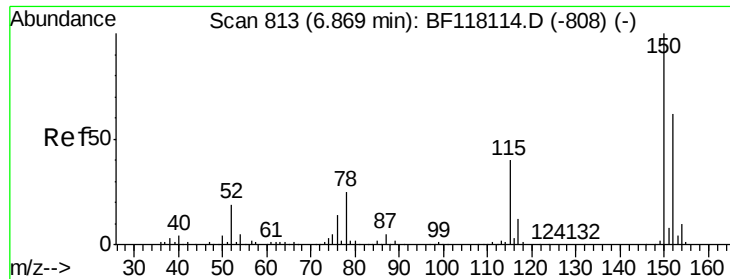
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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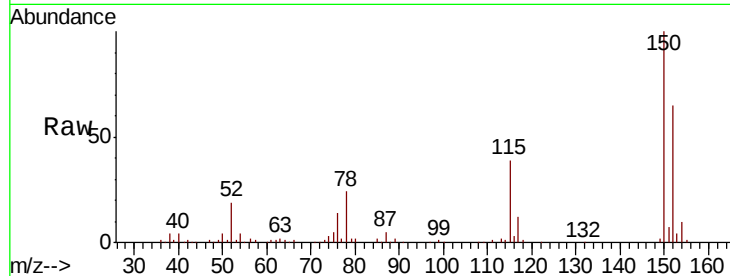


#1

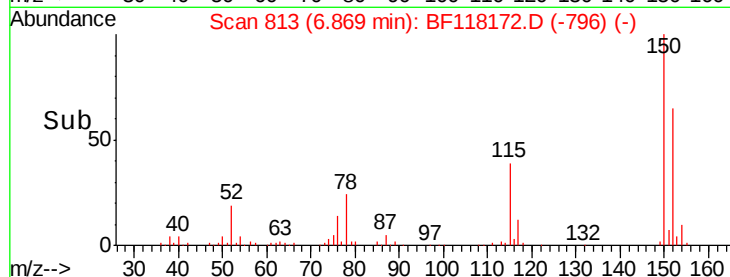
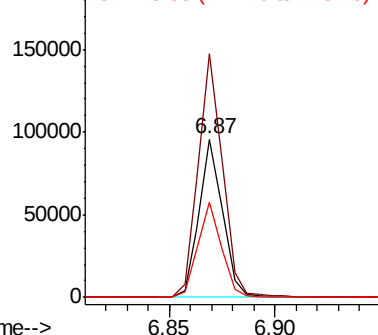
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 73899  
Ion Ratio Lower Upper  
152 100  
150 154.1 128.3 192.5  
115 60.1 51.1 76.7



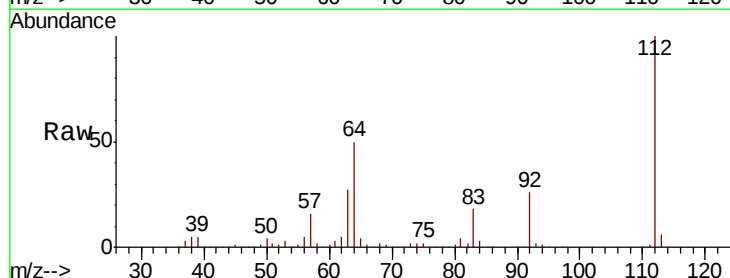
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



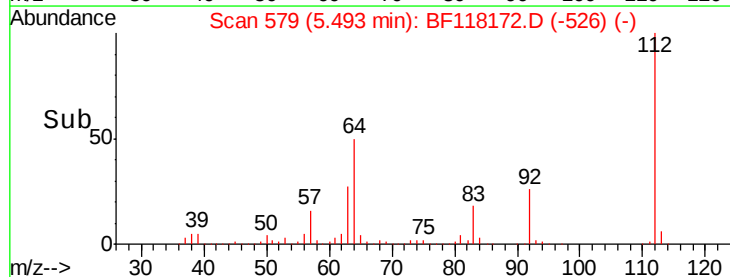
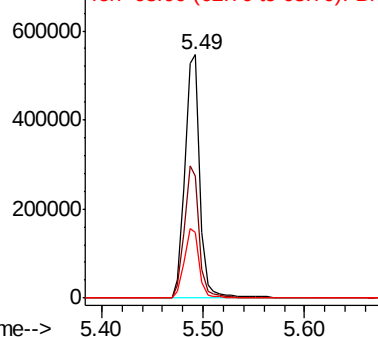
#5

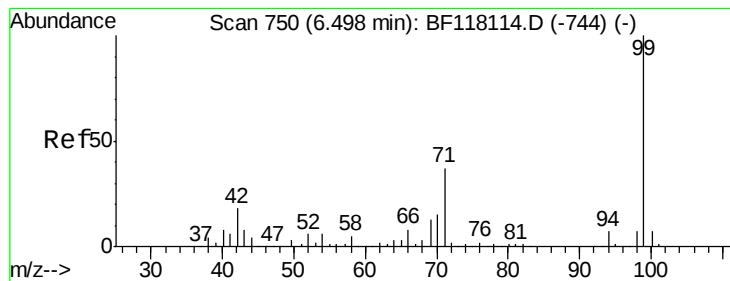
2-Fluorophenol  
Concen: 134.670 ng  
RT: 5.49 min Scan# 579  
Delta R.T. 0.01 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Tgt Ion:112 Resp: 568207  
Ion Ratio Lower Upper  
112 100  
64 50.0 41.3 61.9  
63 26.9 22.4 33.6



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: 123.475 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF118172.D

Acq: 10 Dec 2019 19:30

Instrument :

BNA\_F

ClientSampleId :

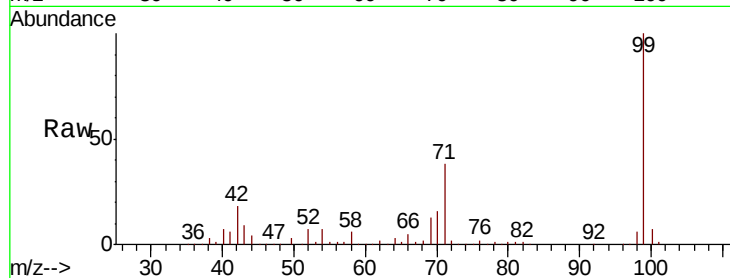
Tot Ion: 99 Resp: 630132

Ion Ratio Lower Upper

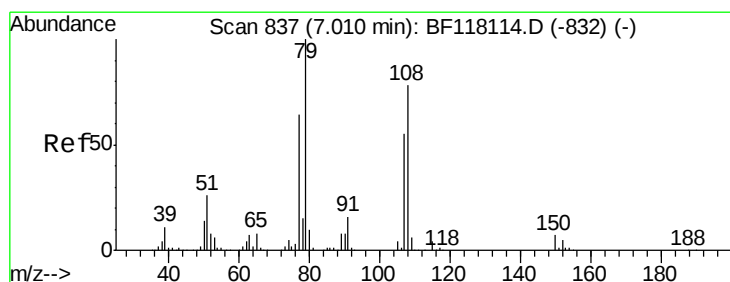
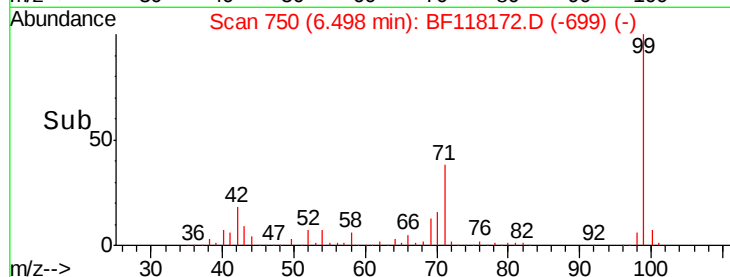
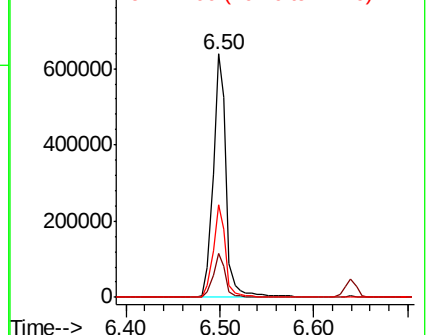
99 100

42 18.2 14.1 21.1

71 37.9 29.7 44.5



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



#15

Benzyl Alcohol

Concen: 2.043 ng

RT: 7.03 min Scan# 840

Delta R.T. 0.02 min

Lab File: BF118172.D

Acq: 10 Dec 2019 19:30

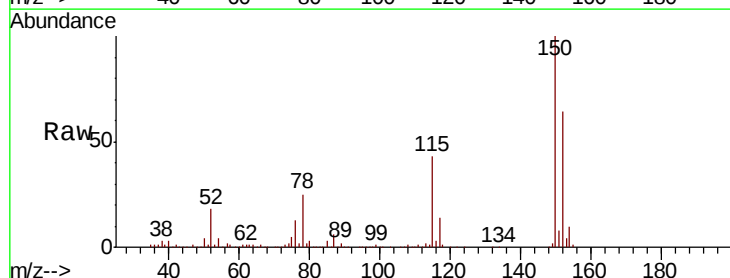
Tgt Ion: 79 Resp: 8137

Ion Ratio Lower Upper

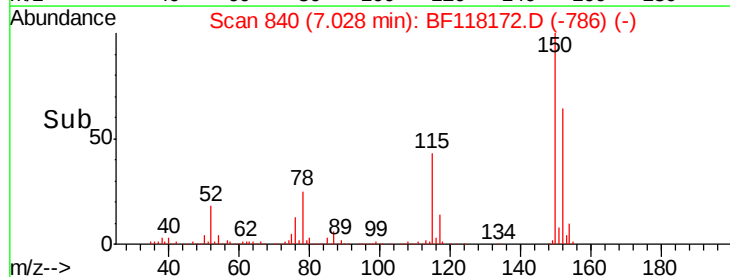
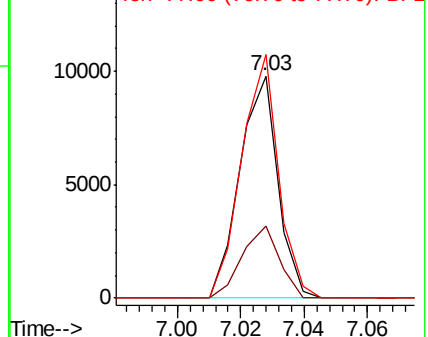
79 100

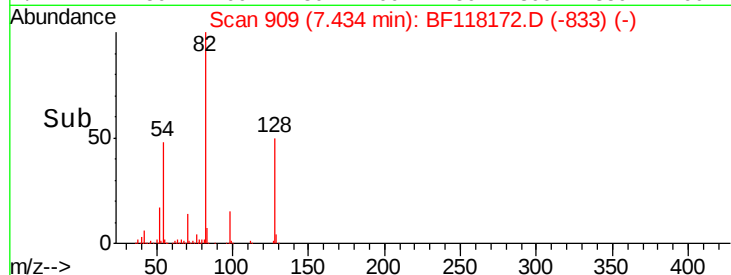
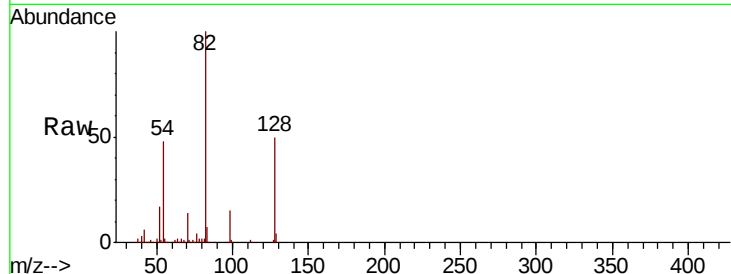
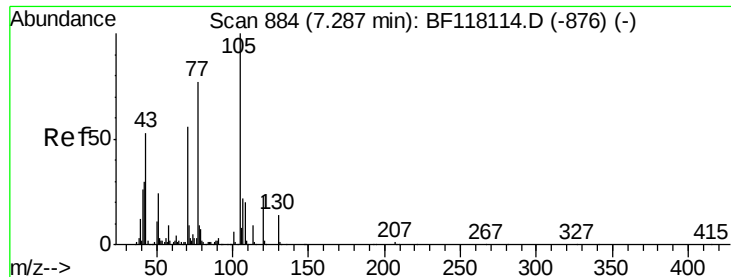
108 32.1 62.7 94.1#

77 109.4 51.4 77.2#



Abundance Ion 79.00 (78.70 to 79.70): BF1  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1

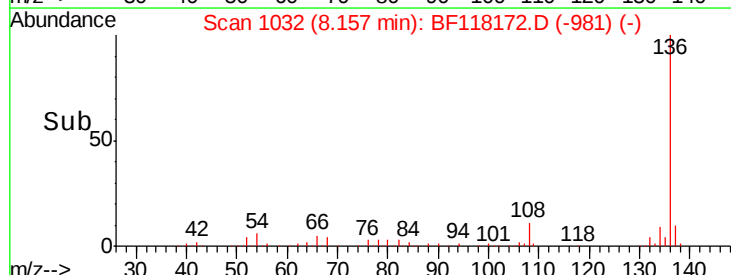
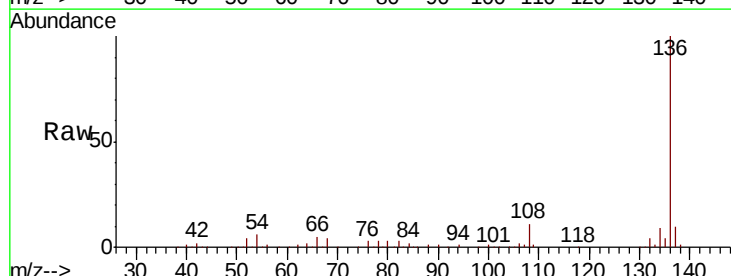
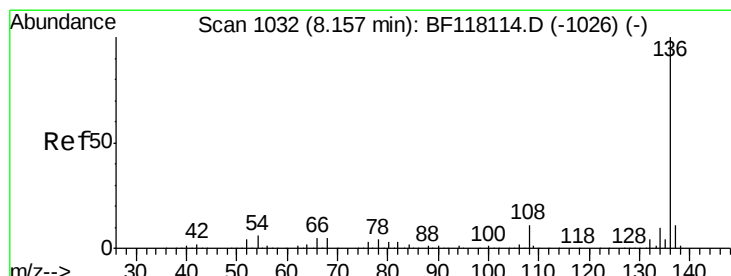
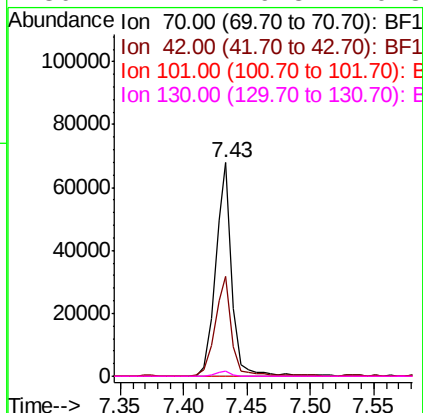




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.724 ng  
RT: 7.43 min Scan# 909  
Delta R.T. 0.15 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

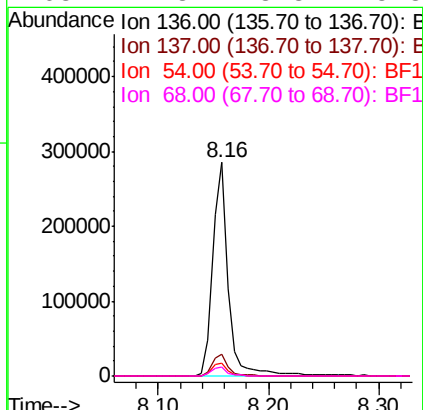
Instrument :  
BNA\_F  
ClientSampleId :

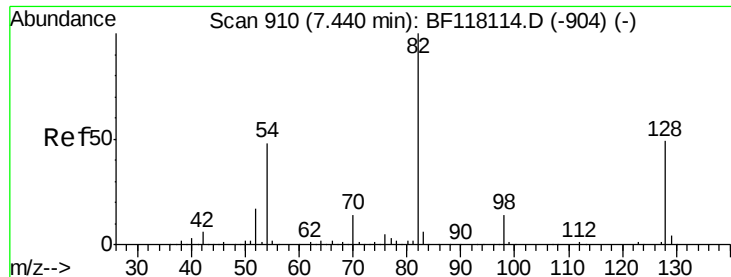
Tot Ion: 70 Resp: 61165  
Ion Ratio Lower Upper  
70 100  
42 46.7 43.2 64.8  
101 0.0 8.1 12.1#  
130 2.7 19.8 29.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.00 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Tgt Ion: 136 Resp: 272966  
Ion Ratio Lower Upper  
136 100  
137 10.4 9.0 13.6  
54 6.1 5.0 7.6  
68 4.3 3.8 5.8

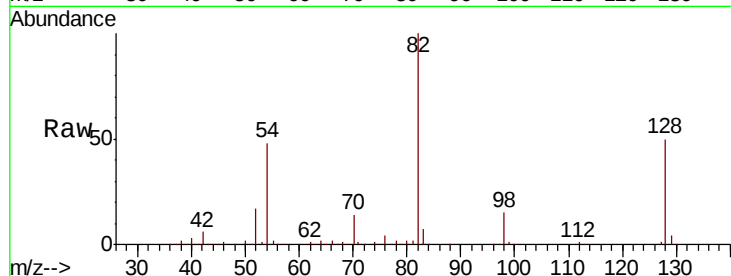




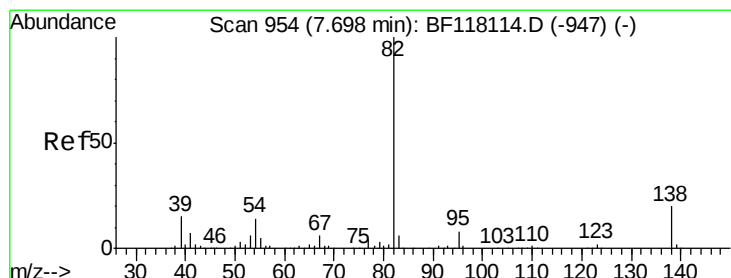
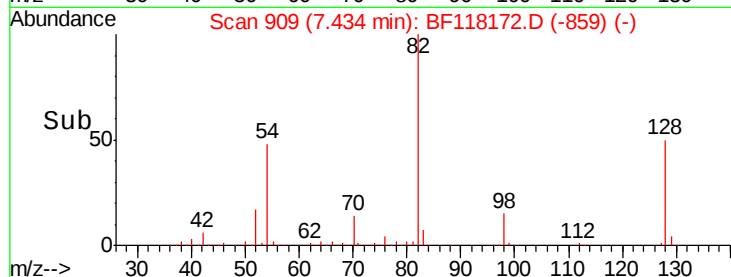
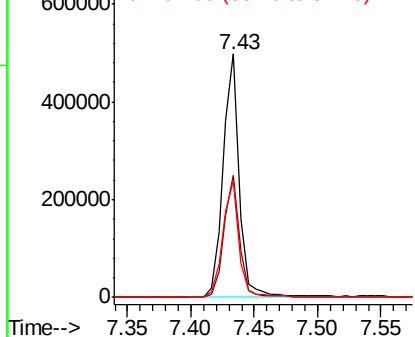
#23  
Nitrobenzene-d5  
Concen: 92.141 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 447075  
Ion Ratio Lower Upper  
82 100  
128 50.2 39.1 58.7  
54 48.1 38.2 57.2

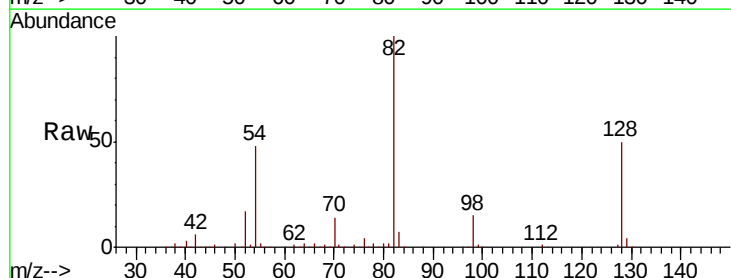


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

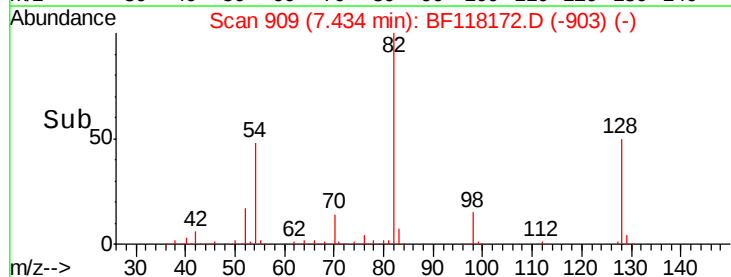
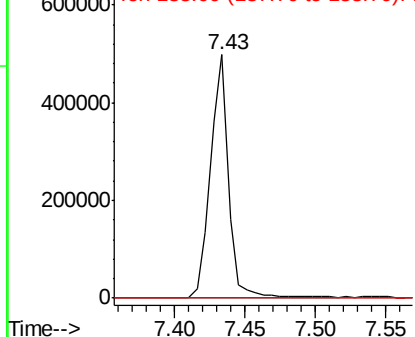


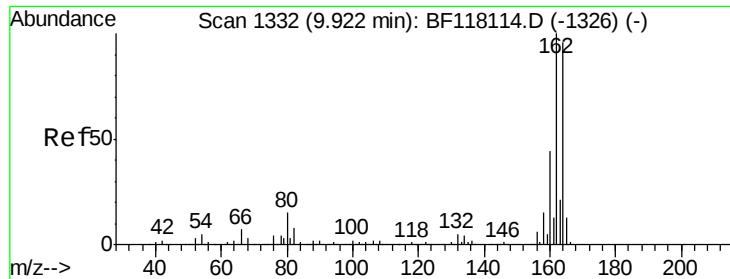
#25  
Isophorone  
Concen: 53.737 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.26 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Tgt Ion: 82 Resp: 442005  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.3 9.5#  
138 0.0 16.3 24.5#



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

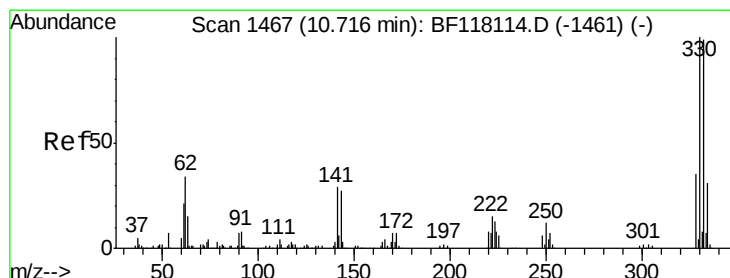
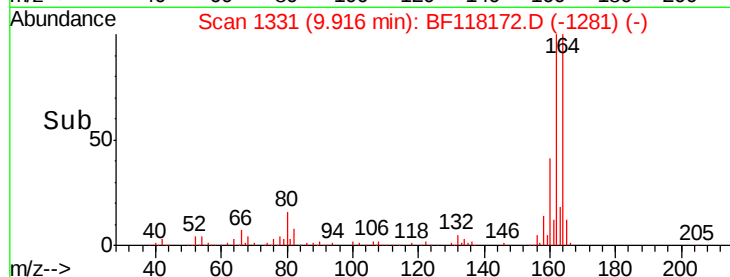
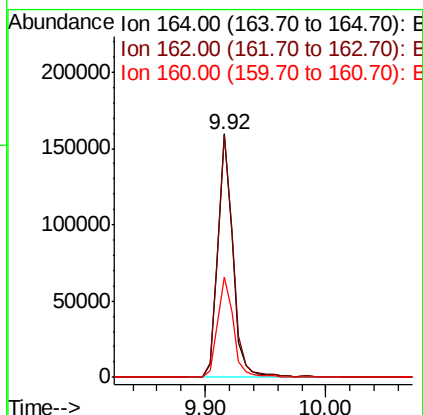
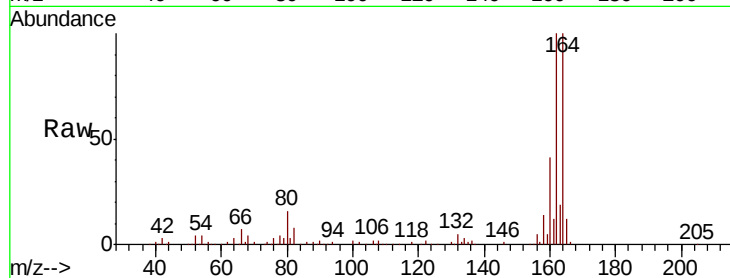




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.01 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

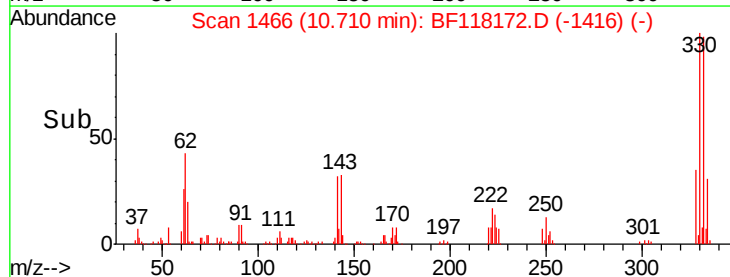
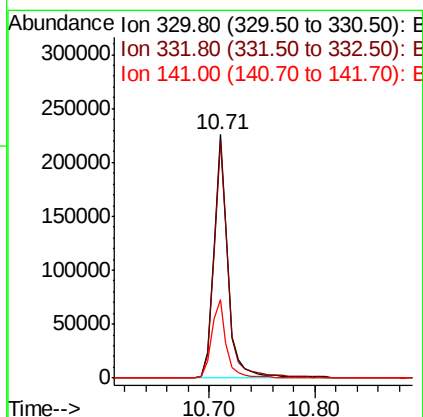
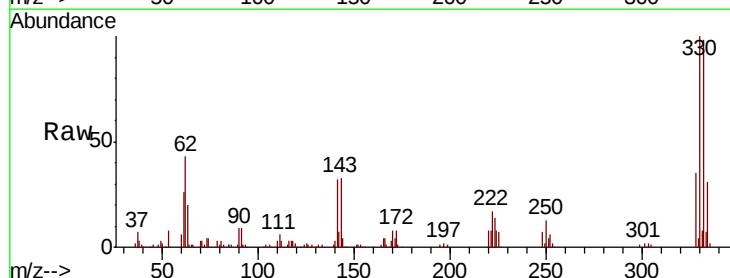
Instrument :  
 BNA\_F  
 ClientSampleId :

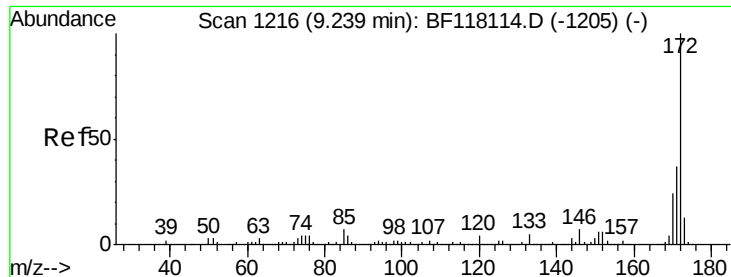
Tot Ion:164 Resp: 133436  
 Ion Ratio Lower Upper  
 164 100  
 162 99.8 83.4 125.0  
 160 41.0 36.6 54.8



#42  
 2,4,6-Tribromophenol  
 Concen: 132.744 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

Tgt Ion:330 Resp: 215179  
 Ion Ratio Lower Upper  
 330 100  
 332 98.0 78.1 117.1  
 141 33.2 26.9 40.3

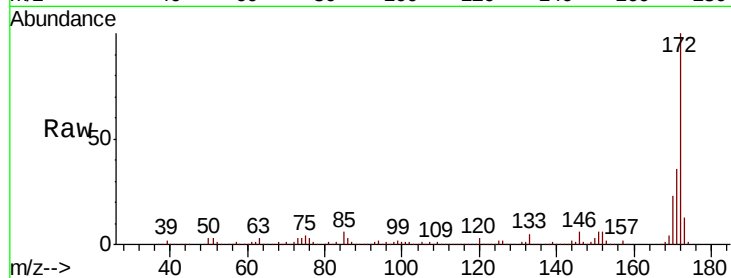




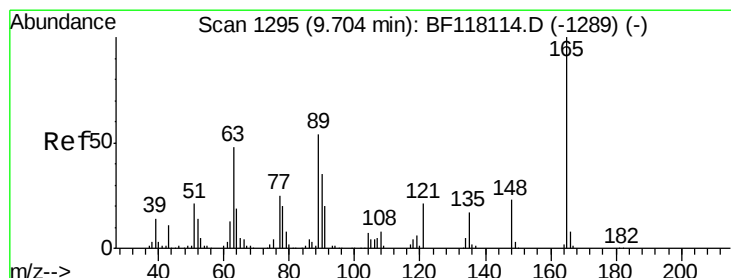
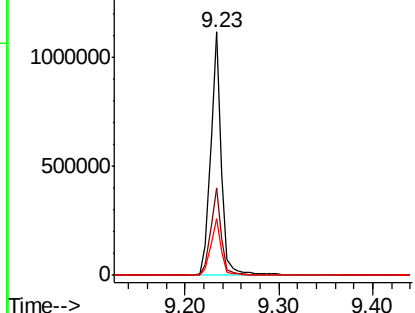
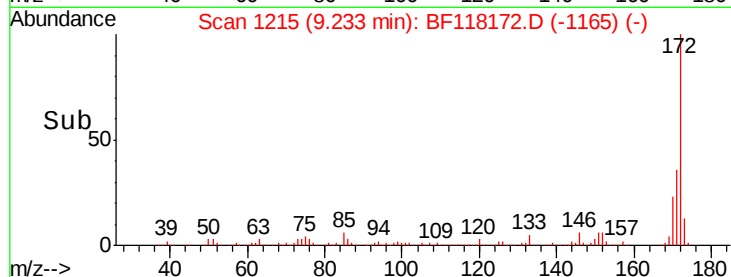
#45  
 2-Fluorobiphenyl  
 Concen: 103.658 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.01 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.2  | 43.8  |
| 170     | 23.1  | 19.4  | 29.2  |

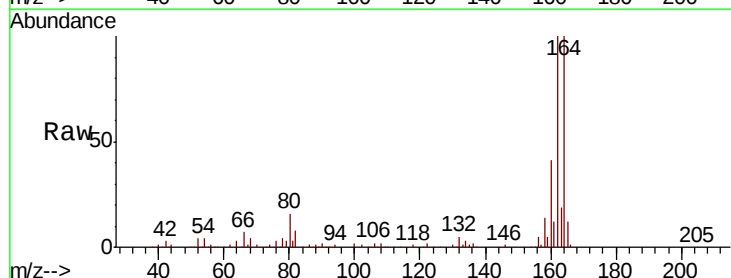


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

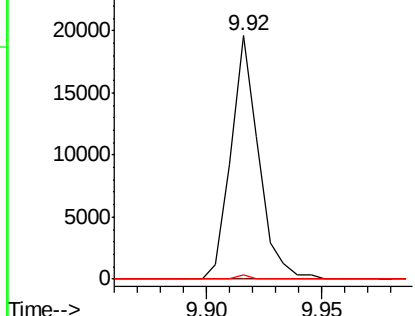
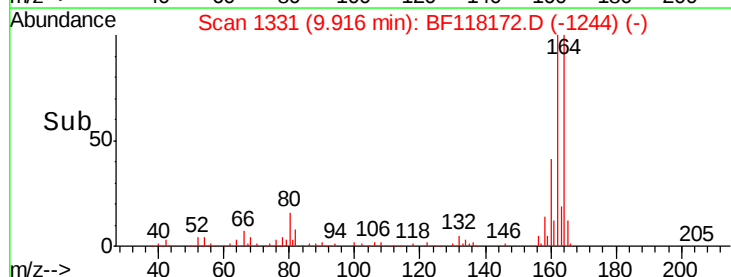


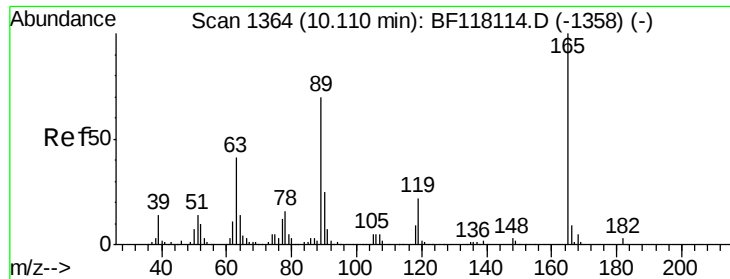
#51  
 2,6-Dinitrotoluene  
 Concen: 7.629 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. 0.21 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 41.4  | 62.0# |
| 89      | 1.8   | 42.9  | 64.3# |



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

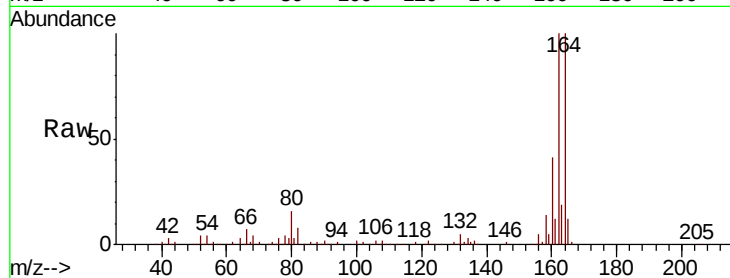




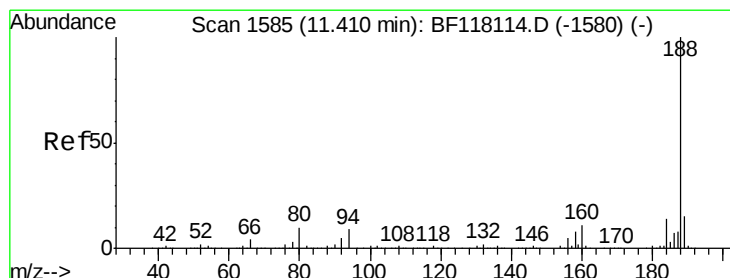
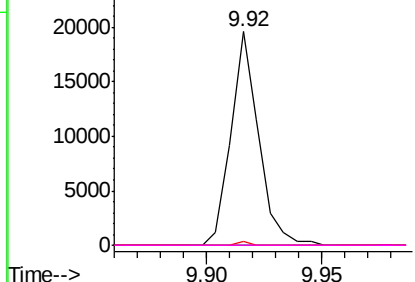
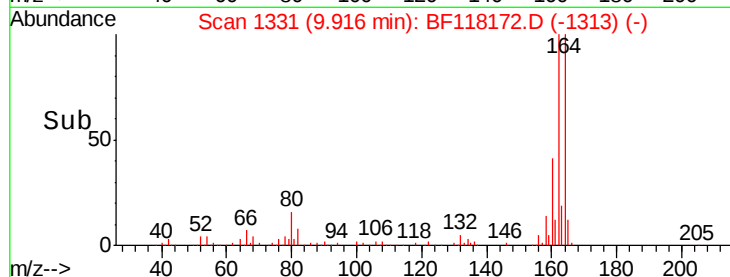
#57  
 2,4-Dinitrotoluene  
 Concen: 5.716 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.19 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 16351  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 32.6 49.0#  
 89 1.8 56.1 84.1#  
 182 0.0 2.1 3.1#

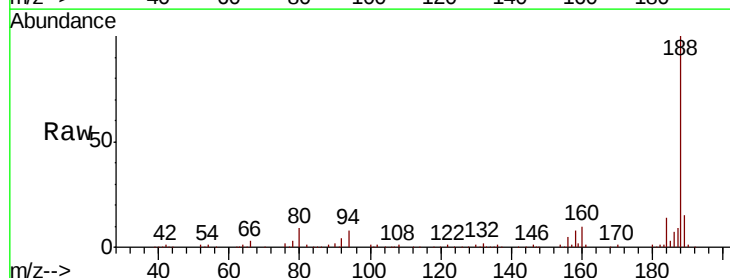


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

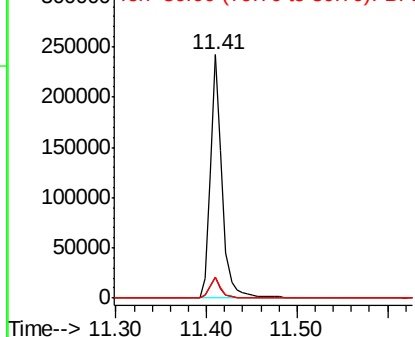
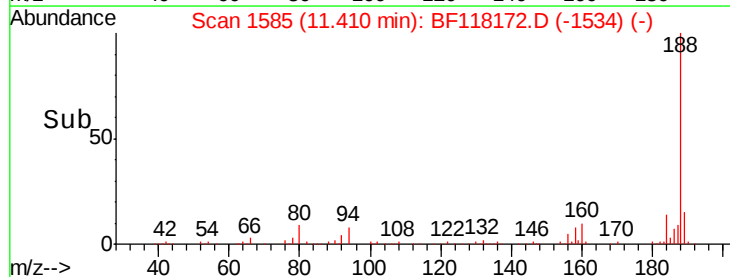


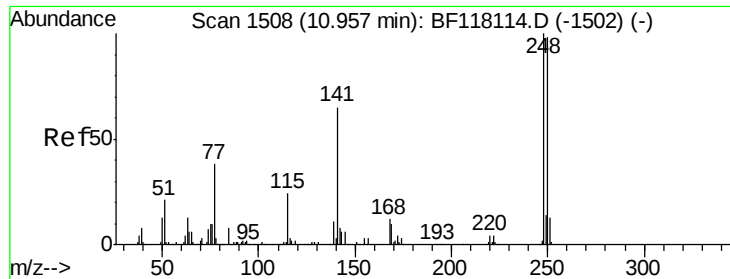
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.00 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

Tgt Ion:188 Resp: 221653  
 Ion Ratio Lower Upper  
 188 100  
 94 8.5 7.1 10.7  
 80 8.8 7.9 11.9



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

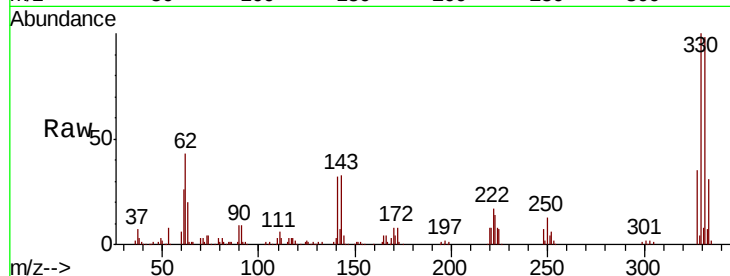




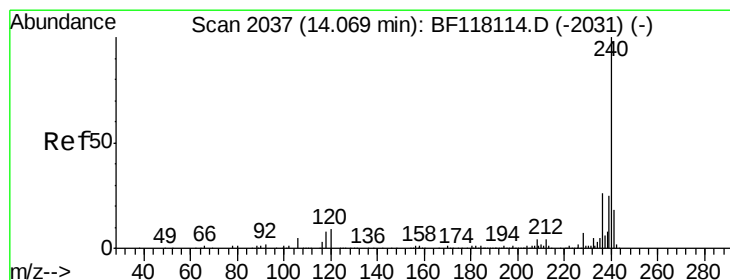
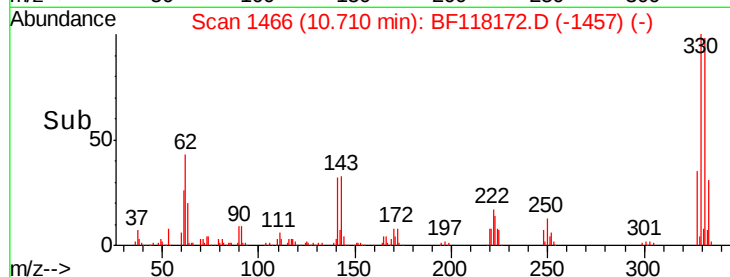
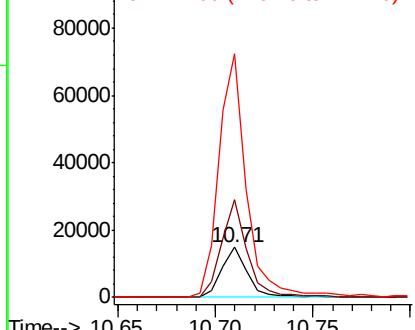
#67  
4-Bromophenyl-phenylether  
Concen: 5.394 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.25 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 13648  
Ion Ratio Lower Upper  
248 100  
250 194.8 78.3 117.5#  
141 486.8 52.2 78.4#

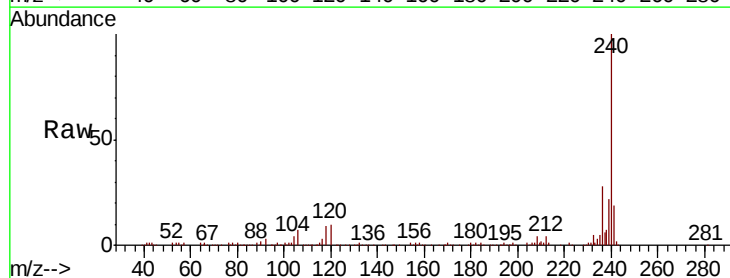


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

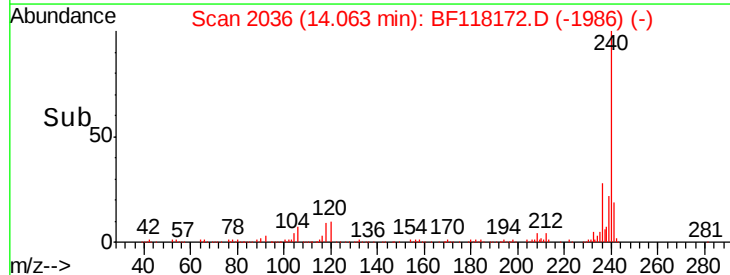
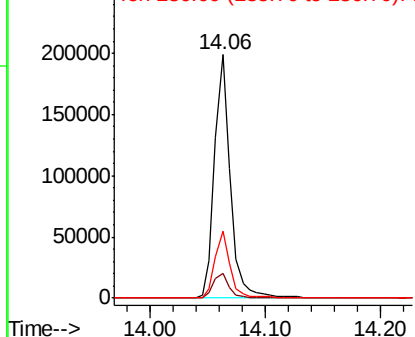


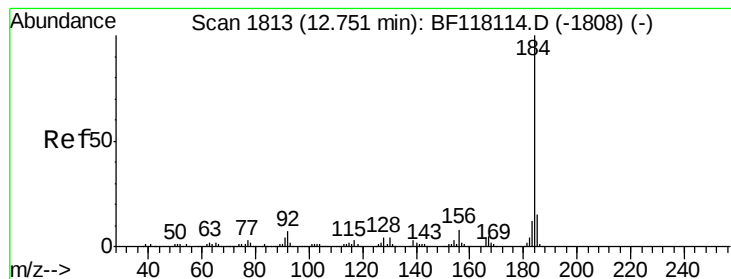
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. -0.01 min  
Lab File: BF118172.D  
Acq: 10 Dec 2019 19:30

Tgt Ion:240 Resp: 189404  
Ion Ratio Lower Upper  
240 100  
120 9.9 7.1 10.7  
236 27.6 21.0 31.6



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

Benzidine

Concen: 2.611 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.25 min

Lab File: BF118172.D

Acq: 10 Dec 2019 19:30

Instrument :

BNA\_F

ClientSampleId :

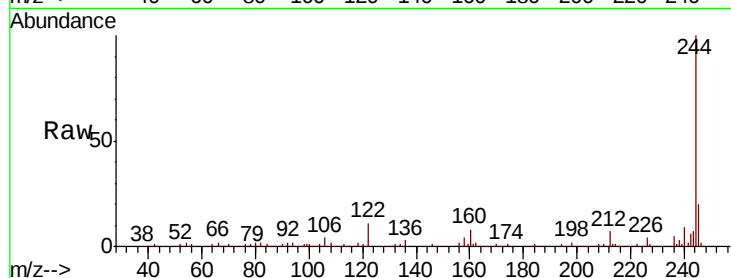
Tot Ion:184 Resp: 13017

Ion Ratio Lower Upper

184 100

185 17.6 12.3 18.5

183 7.9 9.9 14.9#

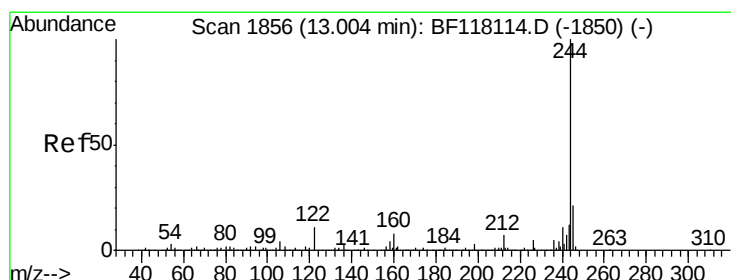
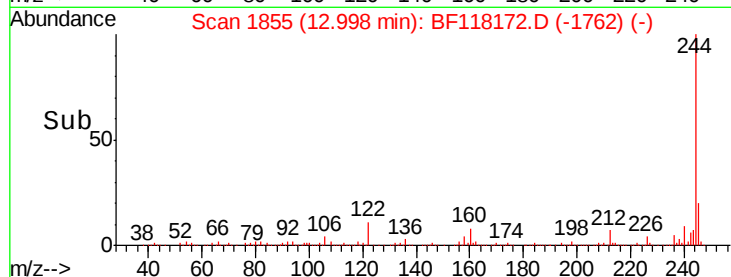
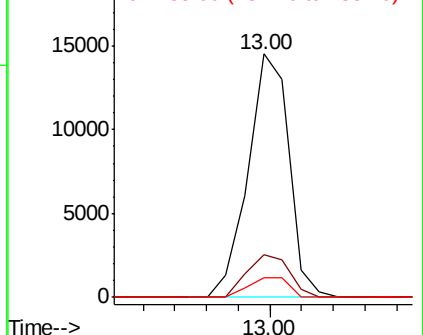


Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 87.942 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BF118172.D

Acq: 10 Dec 2019 19:30

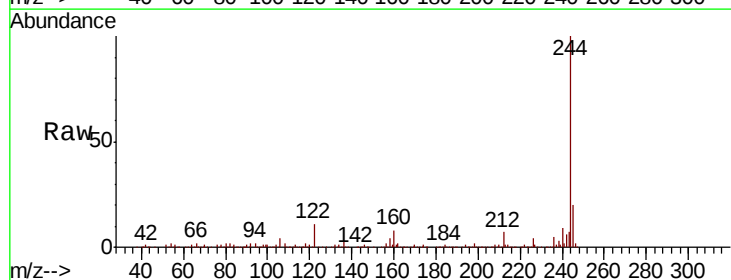
Tgt Ion:244 Resp: 968610

Ion Ratio Lower Upper

244 100

212 6.6 5.9 8.9

122 11.4 9.0 13.6

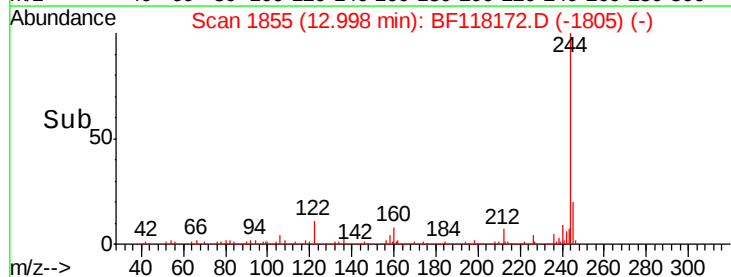
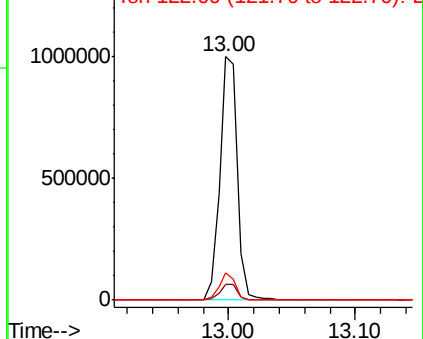


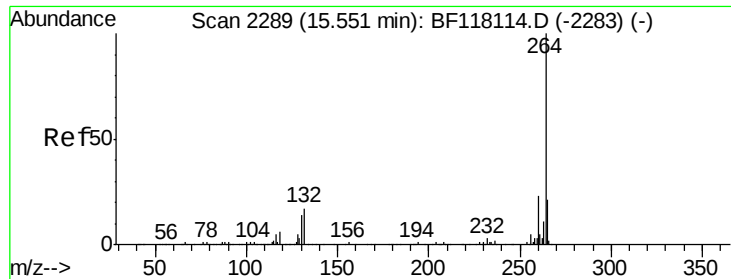
Abundance

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





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.56 min Scan# 2290  
 Delta R.T. 0.01 min  
 Lab File: BF118172.D  
 Acq: 10 Dec 2019 19:30

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 18.6  | 28.0  |
| 265     | 21.1  | 16.8  | 25.2  |

