

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122819\  
 Data File : BF118375.D  
 Acq On : 28 Dec 2019 19:53  
 Operator : JU  
 Sample : K6439-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 29 07:45:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 24 15:58:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 113090   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.14  | 136  | 441443   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 233870   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 461103   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 358867   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 341456   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.47  | 112  | 1048178  | 158.21 | ng    | 0.01     |
| 7) Phenol-d6                | 6.49  | 99   | 1338936  | 162.91 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 826828   | 107.13 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.70 | 330  | 492500   | 170.53 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.22  | 172  | 1702583  | 111.13 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.99 | 244  | 2223732  | 102.80 | ng    | 0.00     |

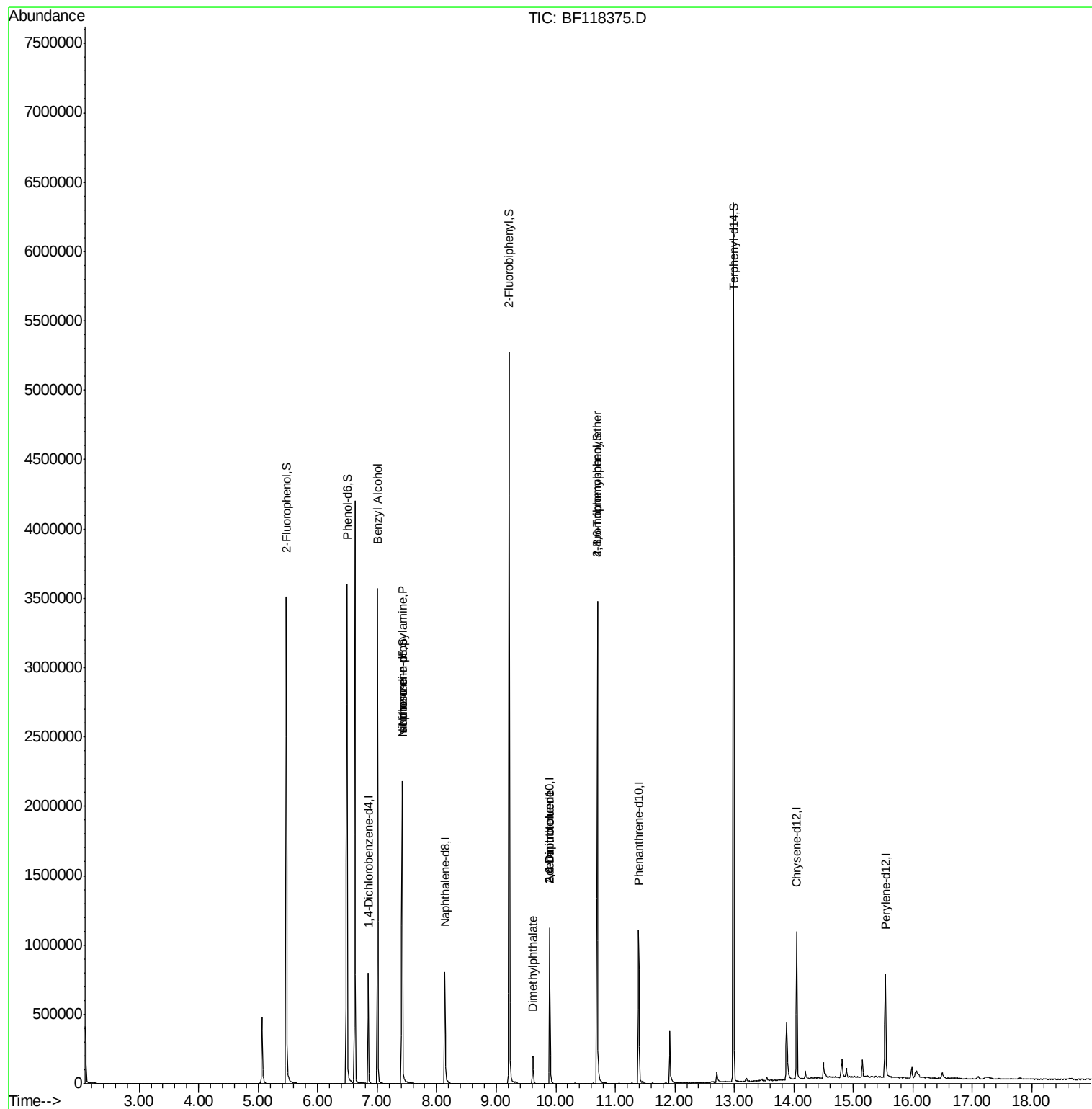
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 7.01  | 79   | 13540    | 2.164  | ng    | # 45   |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 110599   | 21.845 | ng    | # 77   |
| 25) Isophorone                 | 7.42  | 82   | 826823   | 61.468 | ng    | # 62   |
| 50) Dimethylphthalate          | 9.62  | 163  | 107435   | 6.120  | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 30065    | 7.944  | ng    | # 26   |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 30065    | 5.945  | ng    | # 29   |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 30113    | 5.580  | ng    | # 1    |

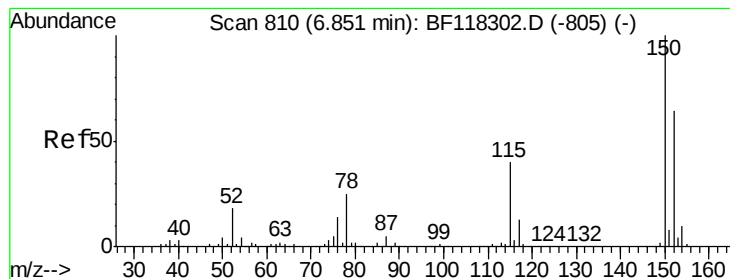
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



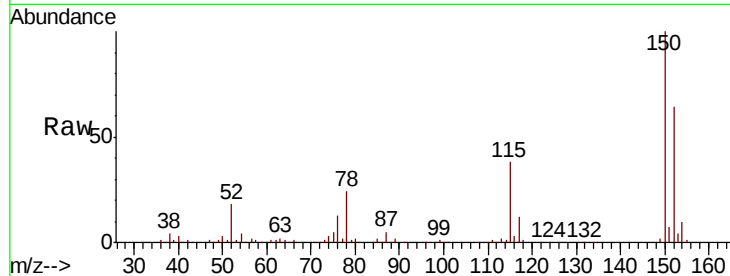


#1

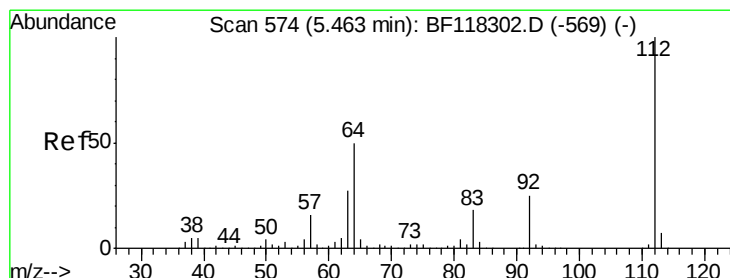
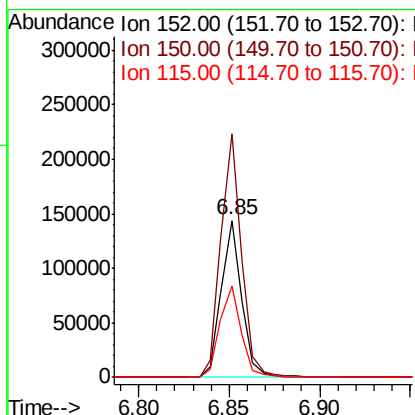
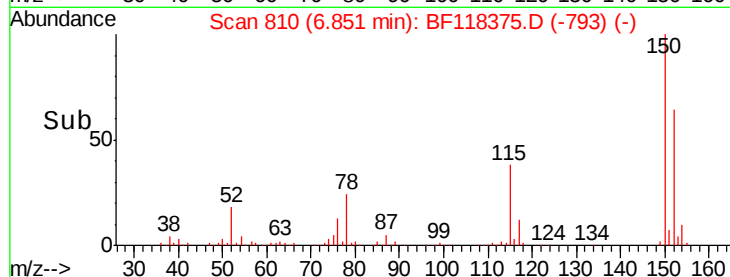
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.00 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 113090  
Ion Ratio Lower Upper  
152 100  
150 155.2 125.4 188.2  
115 58.3 50.2 75.4



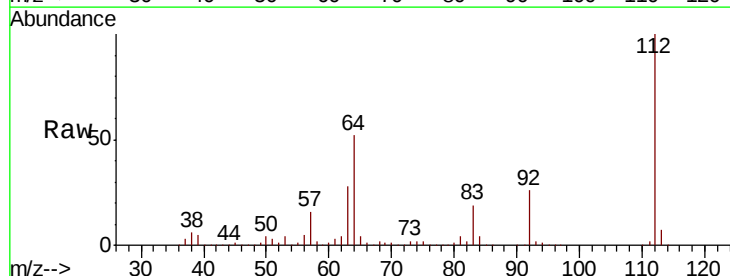
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



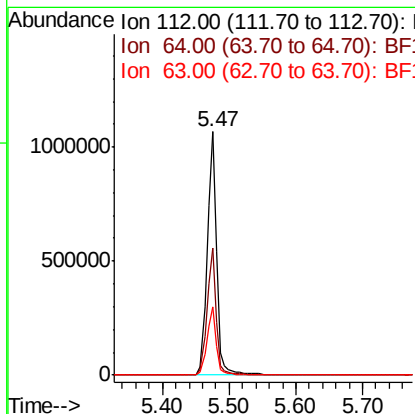
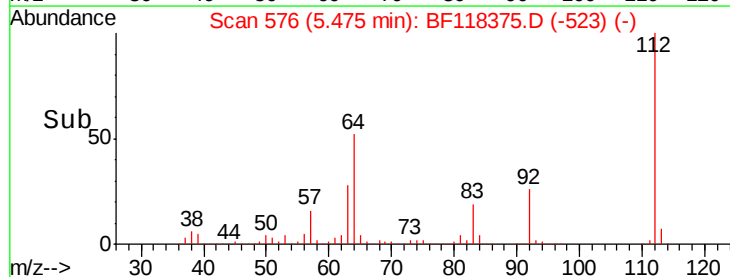
#5

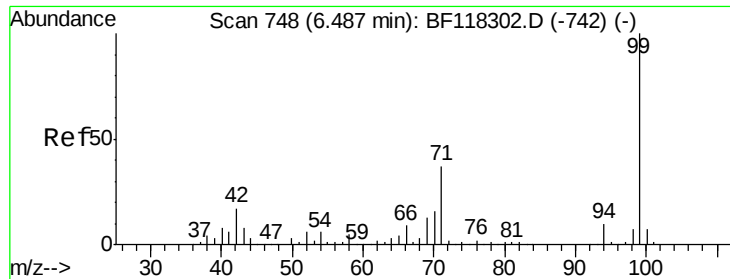
2-Fluorophenol  
Concen: 158.213 ng  
RT: 5.47 min Scan# 576  
Delta R.T. 0.01 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Tgt Ion:112 Resp: 1048178  
Ion Ratio Lower Upper  
112 100  
64 52.4 39.7 59.5  
63 28.2 21.7 32.5



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: 162.915 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118375.D

Acq: 28 Dec 2019 19:53

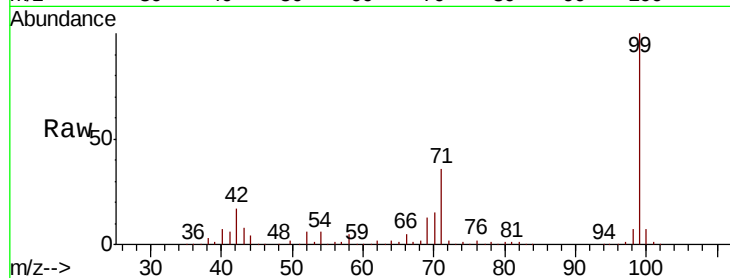
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1338936

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.8  | 13.5  | 20.3  |
| 71  | 35.9  | 29.4  | 44.2  |

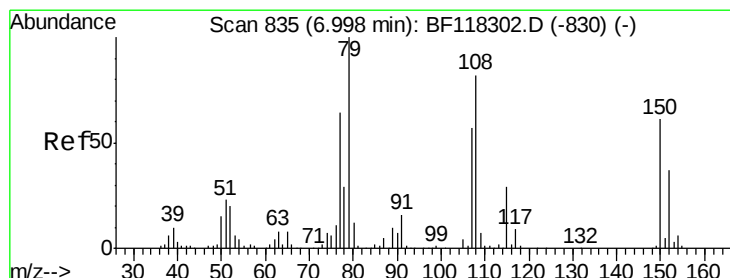
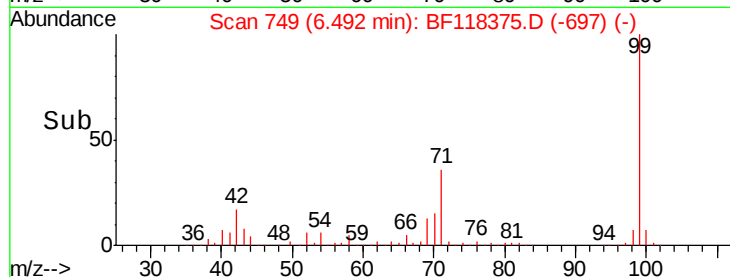


Abundance

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: 2.164 ng

RT: 7.01 min Scan# 837

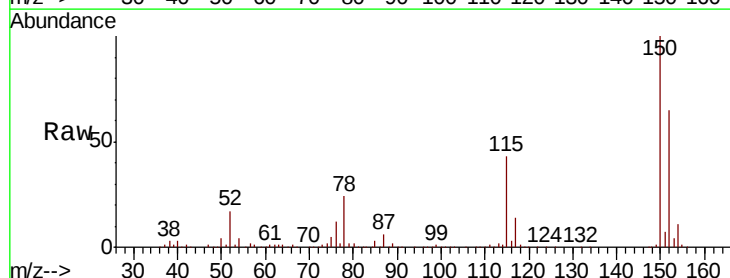
Delta R.T. 0.01 min

Lab File: BF118375.D

Acq: 28 Dec 2019 19:53

Tgt Ion: 79 Resp: 13540

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 108 | 30.0  | 65.4  | 98.0# |
| 77  | 104.3 | 51.4  | 77.0# |

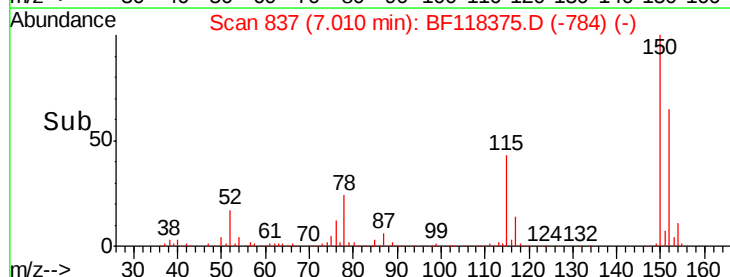


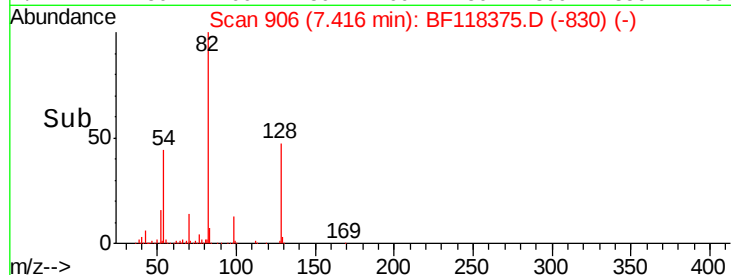
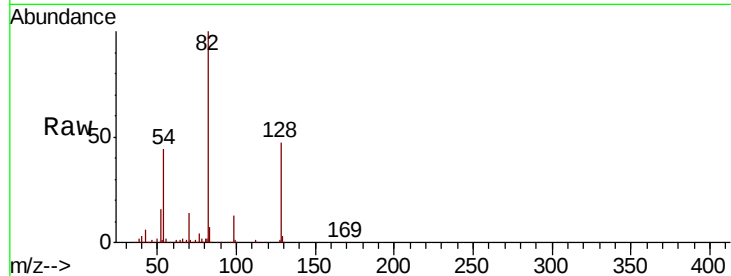
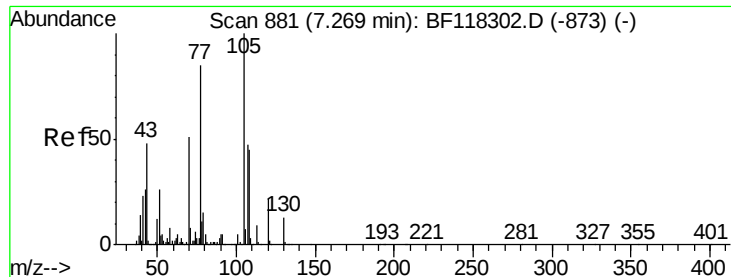
Abundance

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

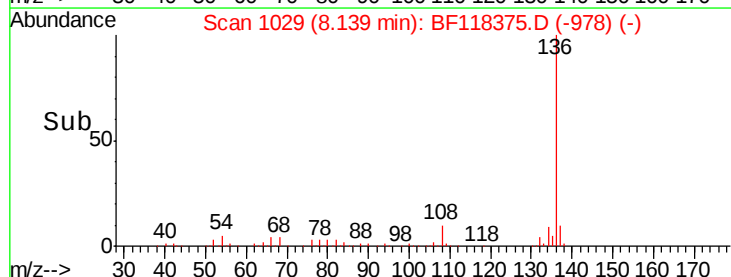
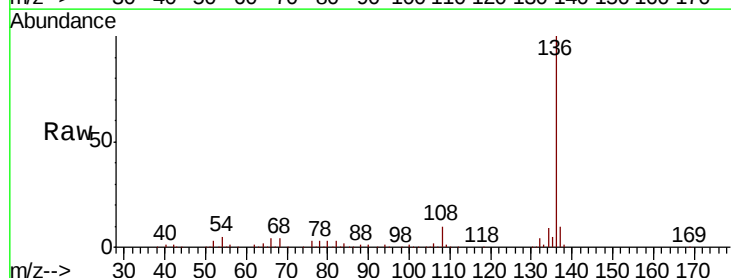
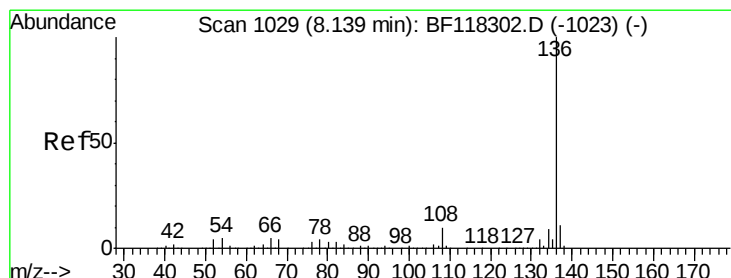
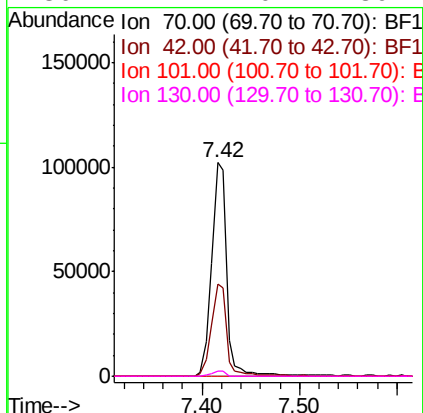




#19  
n-Nitroso-di-n-propylamine  
Concen: 21.845 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.15 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

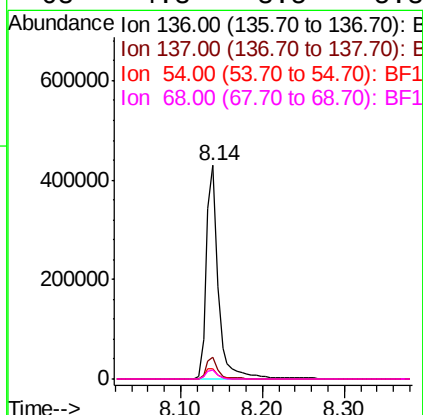
Instrument :  
BNA\_F  
ClientSampleId :

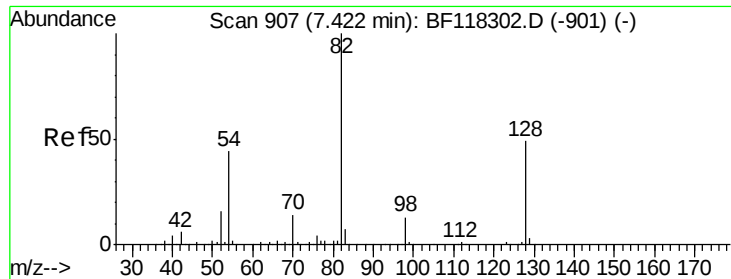
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 43.4  | 41.1  | 61.7  |
| 101     | 0.0   | 8.3   | 12.5# |
| 130     | 2.4   | 20.1  | 30.1# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. -0.00 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.4  | 8.9   | 13.3  |
| 54      | 5.0   | 4.2   | 6.4   |
| 68      | 4.3   | 3.5   | 5.3   |

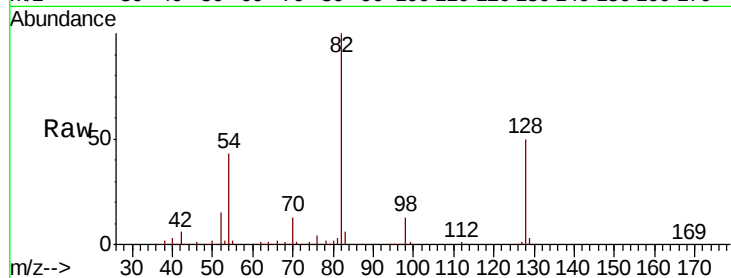




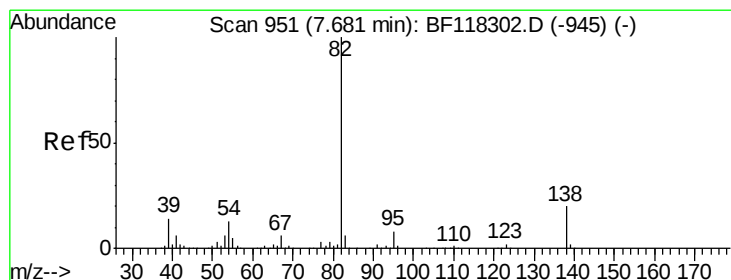
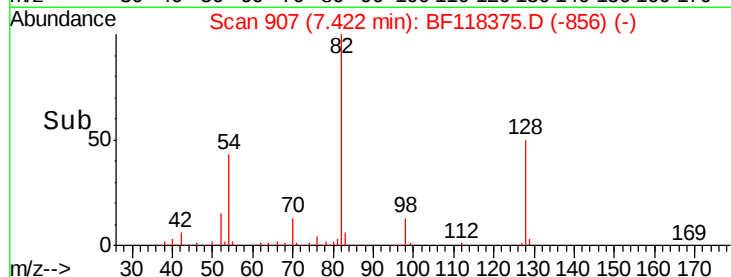
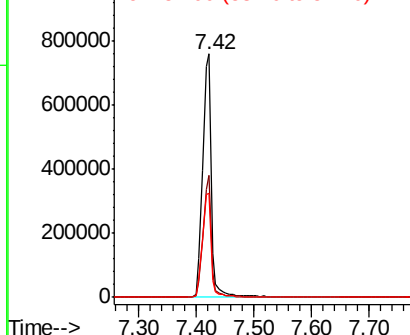
#23  
Nitrobenzene-d5  
Concen: 107.127 ng  
RT: 7.42 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.9  | 39.6  | 59.4  |
| 54      | 42.5  | 34.9  | 52.3  |

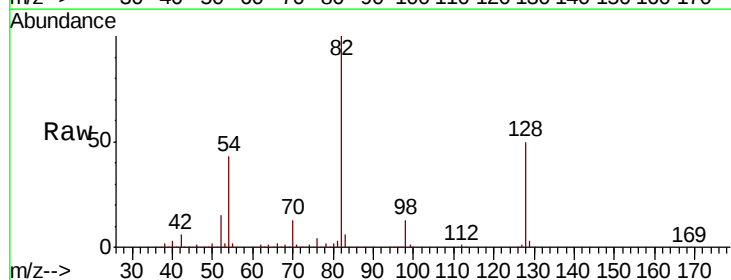


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

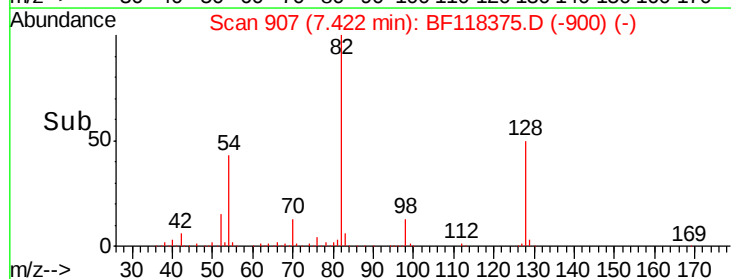
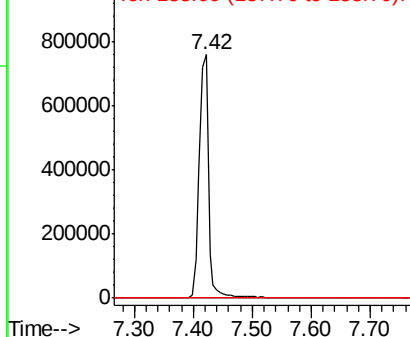


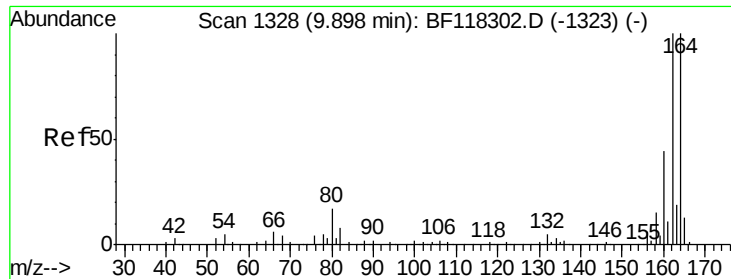
#25  
Isophorone  
Concen: 61.468 ng  
RT: 7.42 min Scan# 907  
Delta R.T. -0.26 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 6.3   | 9.5#  |
| 138     | 0.0   | 16.2  | 24.2# |



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

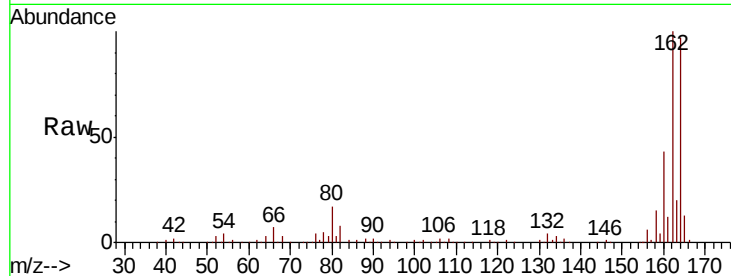




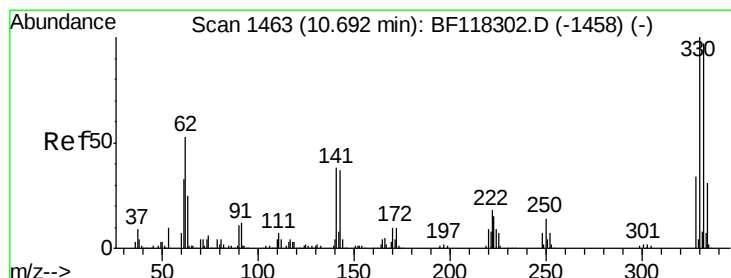
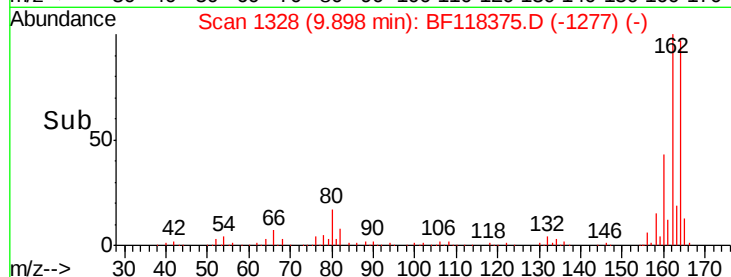
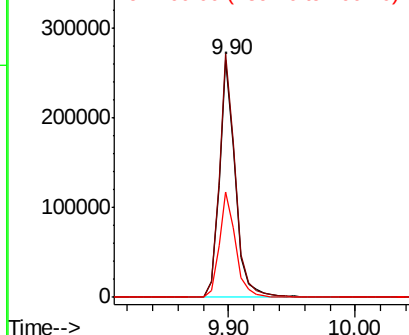
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.00 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 233870  
Ion Ratio Lower Upper  
164 100  
162 102.6 80.0 120.0  
160 44.2 34.8 52.2

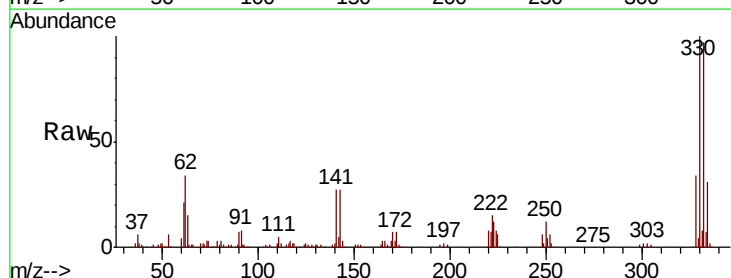


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

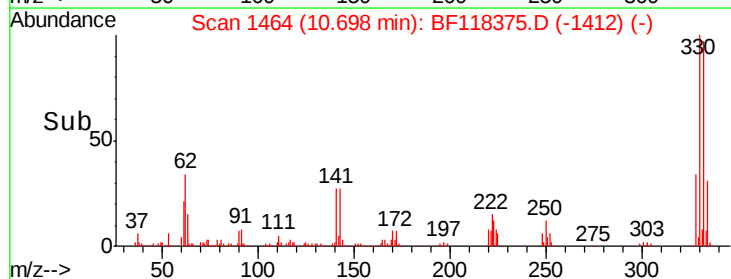
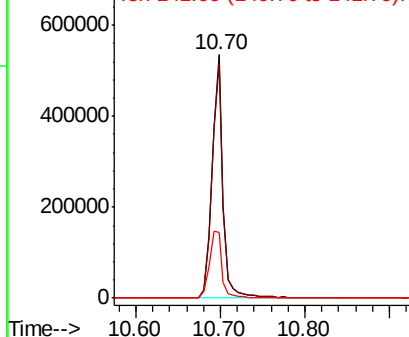


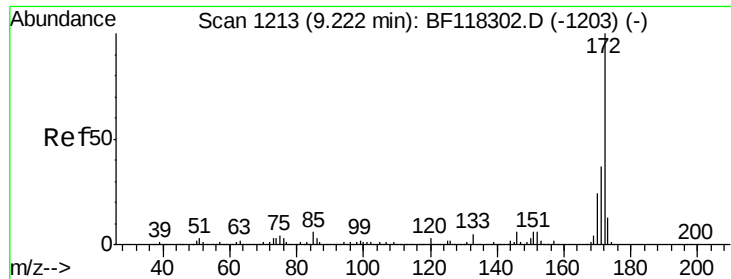
#42  
2,4,6-Tribromophenol  
Concen: 170.526 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. 0.01 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Tgt Ion:330 Resp: 492500  
Ion Ratio Lower Upper  
330 100  
332 98.0 76.6 114.8  
141 31.8 26.0 39.0



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

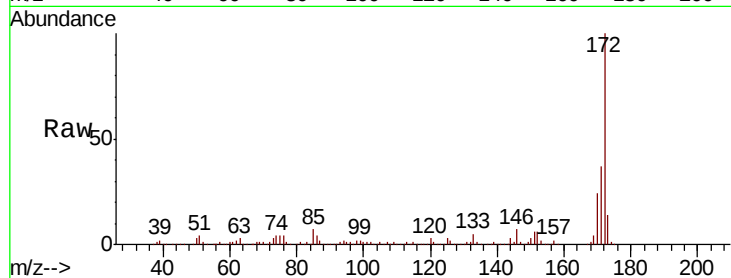




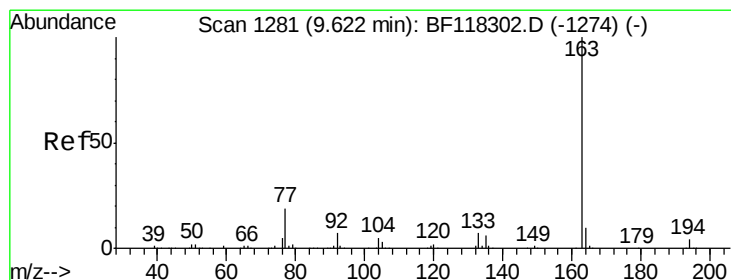
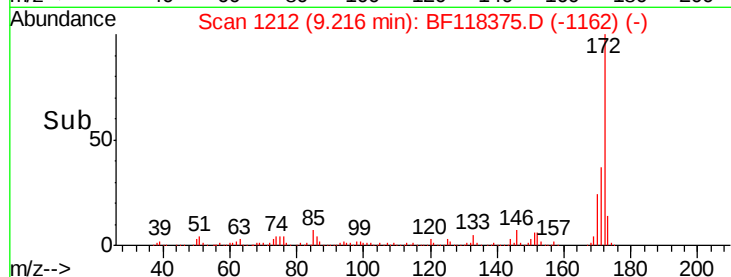
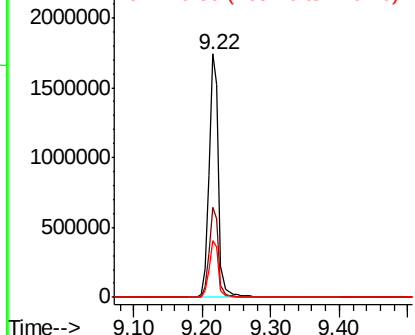
#45  
2-Fluorobiphenyl  
Concen: 111.128 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1702583  
Ion Ratio Lower Upper  
172 100  
171 36.8 29.3 43.9  
170 23.6 19.2 28.8

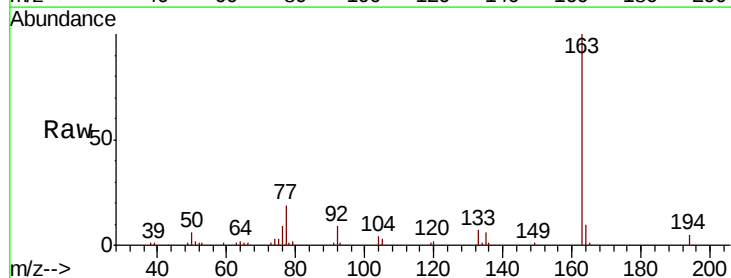


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

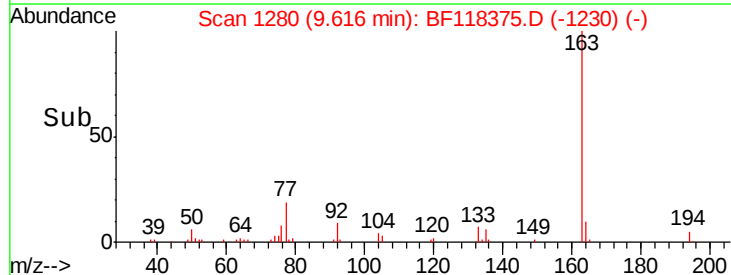
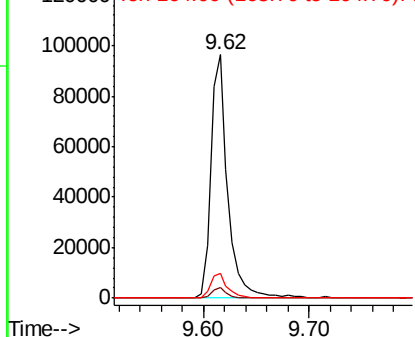


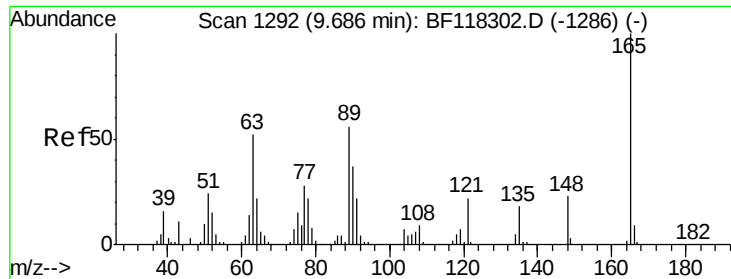
#50  
Dimethylphthalate  
Concen: 6.120 ng  
RT: 9.62 min Scan# 1280  
Delta R.T. -0.01 min  
Lab File: BF118375.D  
Acq: 28 Dec 2019 19:53

Tgt Ion:163 Resp: 107435  
Ion Ratio Lower Upper  
163 100  
194 4.6 3.2 4.8  
164 10.2 7.9 11.9



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

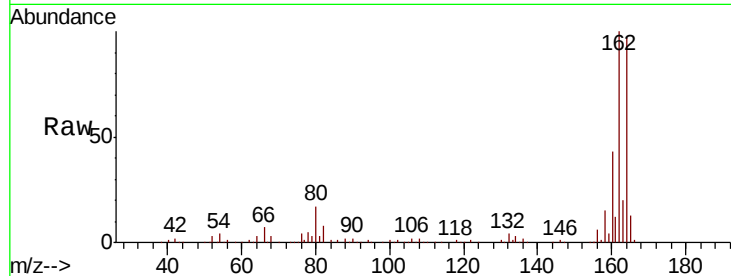




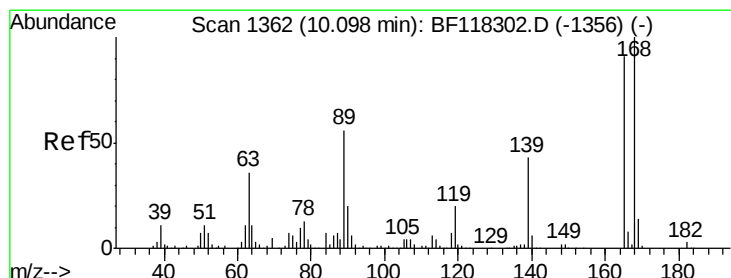
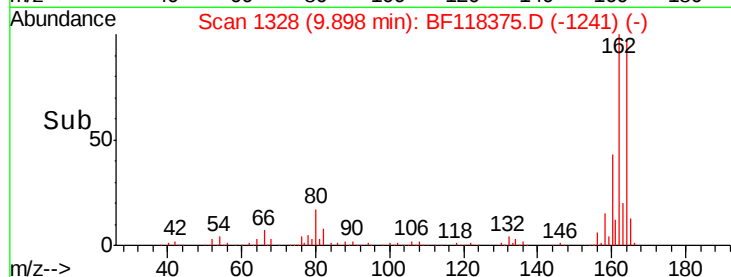
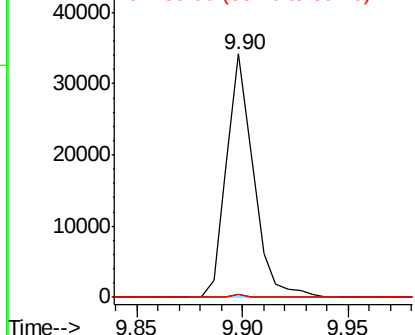
#51  
 2,6-Dinitrotoluene  
 Concen: 7.944 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. 0.21 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 42.2  | 63.4# |
| 89      | 1.2   | 44.4  | 66.6# |



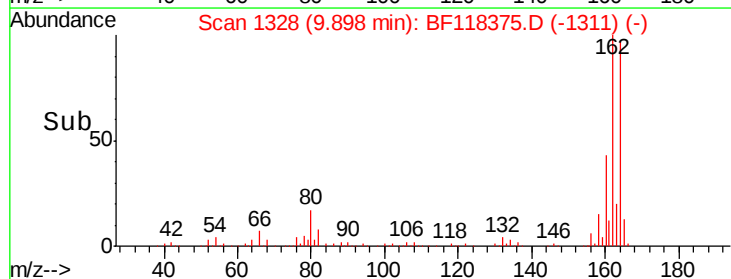
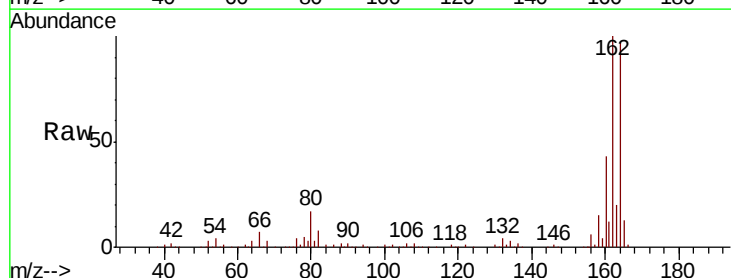
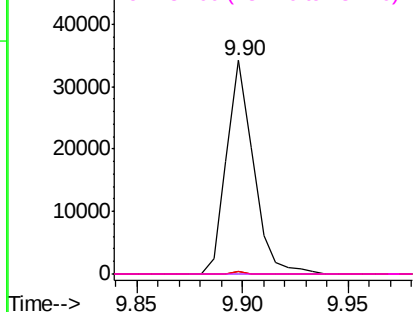
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

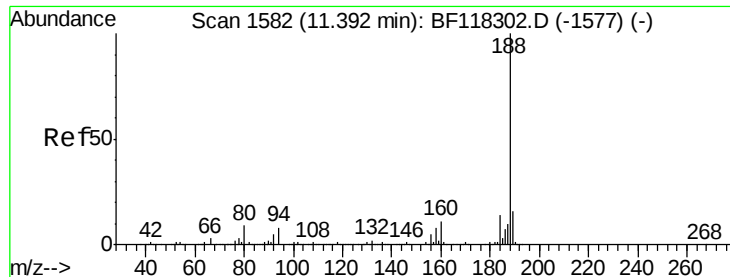


#57  
 2,4-Dinitrotoluene  
 Concen: 5.945 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.20 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 32.0  | 48.0# |
| 89      | 1.2   | 49.3  | 73.9# |
| 182     | 0.0   | 2.4   | 3.6#  |

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

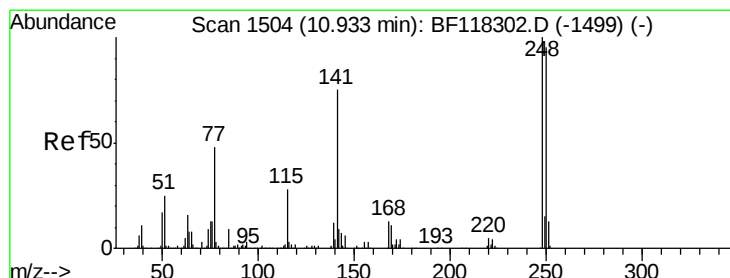
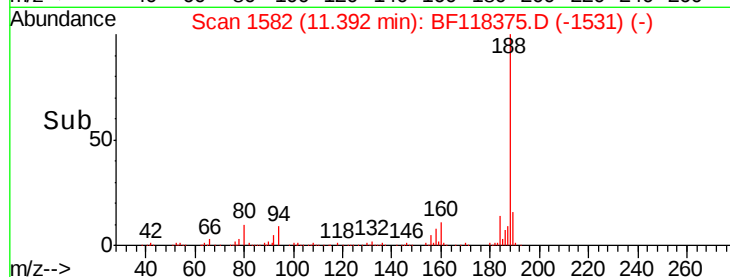
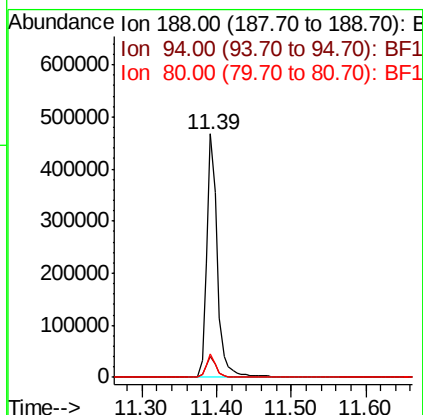
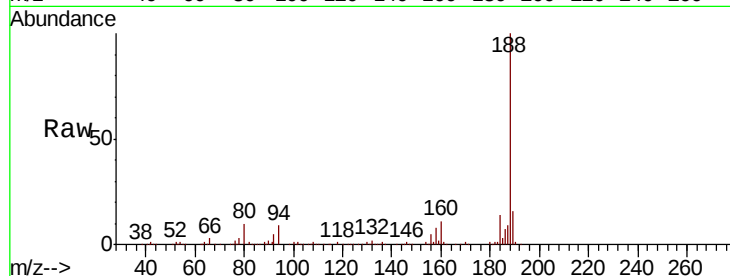




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1582  
 Delta R.T. -0.00 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

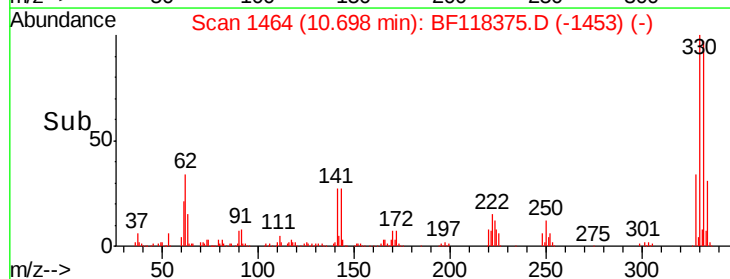
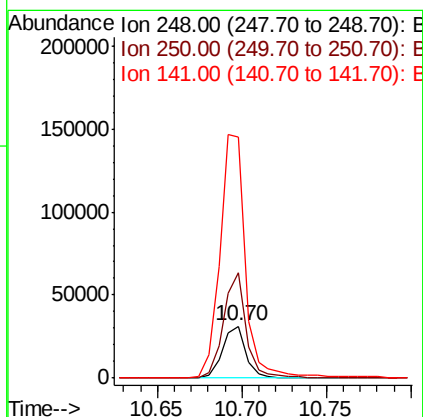
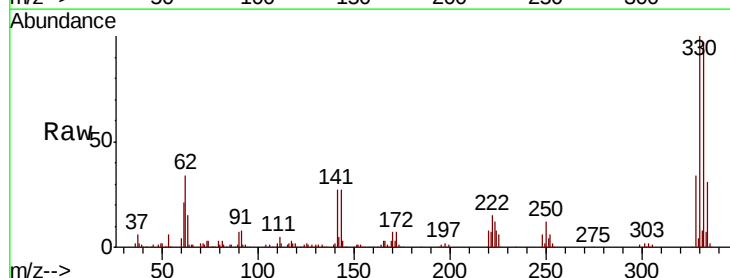
Instrument :  
 BNA\_F  
 ClientSampleId :

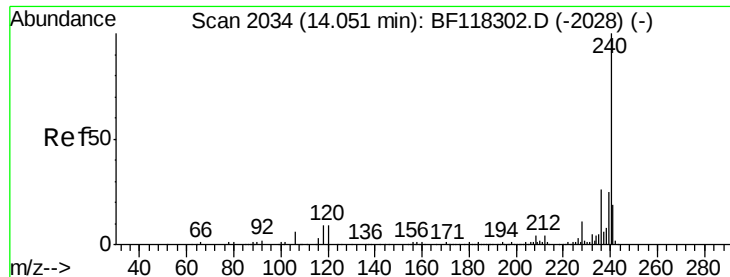
Tot Ion:188 Resp: 461103  
 Ion Ratio Lower Upper  
 188 100  
 94 8.5 6.7 10.1  
 80 9.6 7.2 10.8



#67  
 4-Bromophenyl-phenylether  
 Concen: 5.580 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.24 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

Tgt Ion:248 Resp: 30113  
 Ion Ratio Lower Upper  
 248 100  
 250 202.1 76.4 114.6#  
 141 463.3 60.2 90.2#

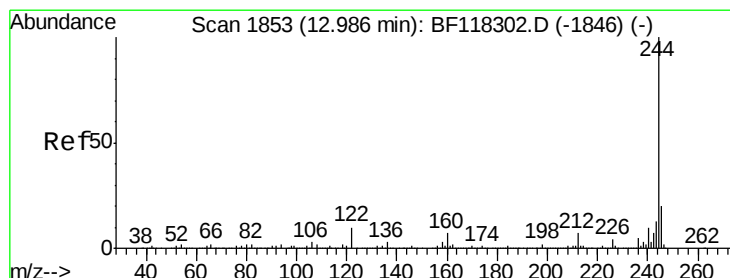
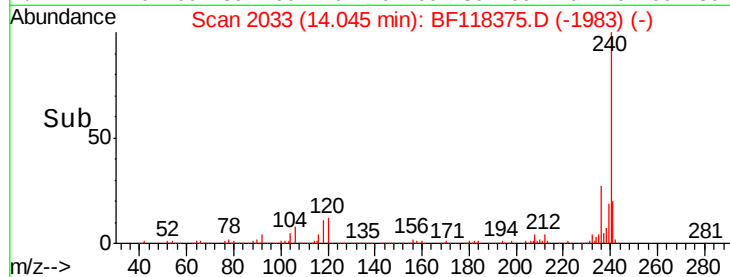
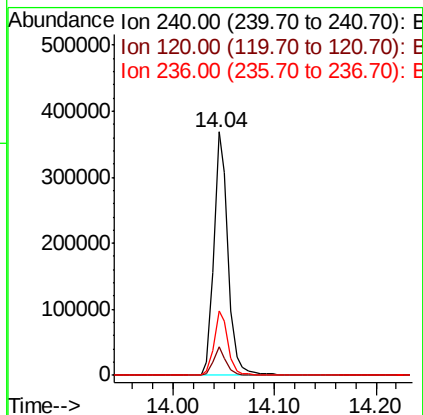
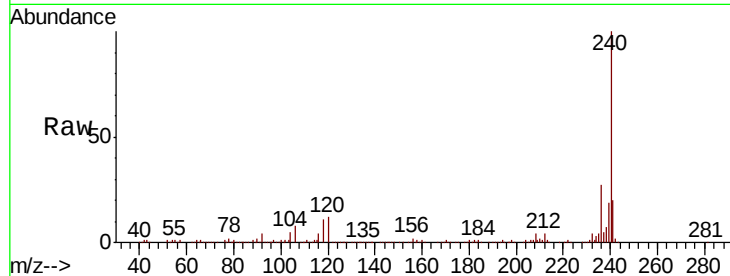




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

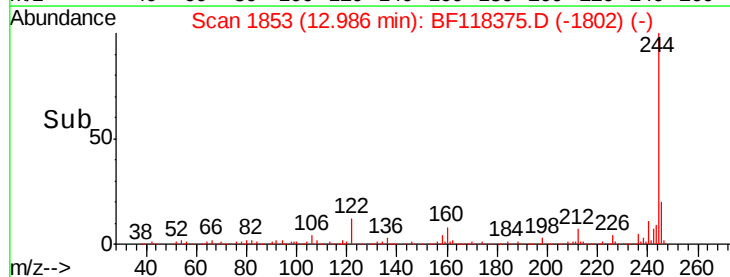
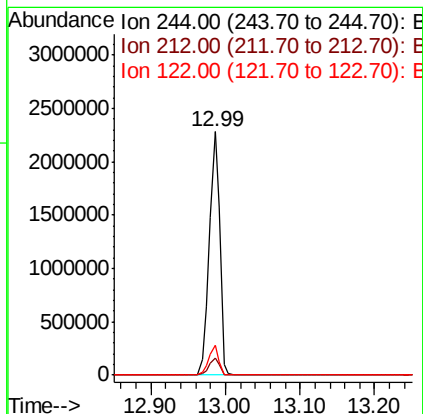
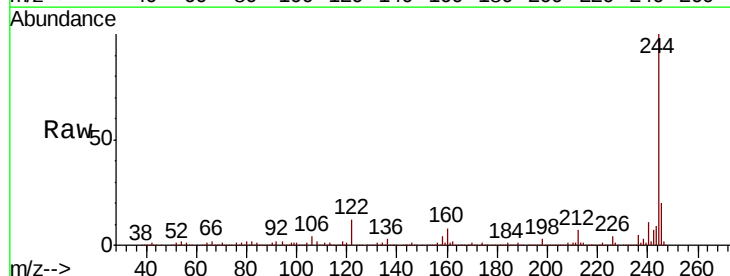
Instrument :  
 BNA\_F  
 ClientSampleId :

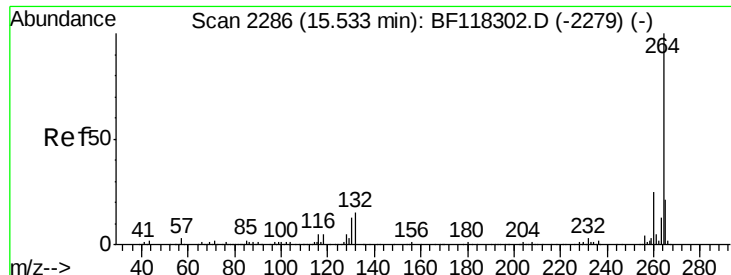
Tot Ion:240 Resp: 358867  
 Ion Ratio Lower Upper  
 240 100  
 120 11.8 7.1 10.7#  
 236 26.5 21.0 31.6



#79  
 Terphenyl-d14  
 Concen: 102.802 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

Tgt Ion:244 Resp: 2223732  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.4 8.2  
 122 12.3 7.8 11.8#





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.54 min Scan# 2287  
 Delta R.T. 0.01 min  
 Lab File: BF118375.D  
 Acq: 28 Dec 2019 19:53

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.8  | 29.6  |
| 265     | 20.9  | 17.0  | 25.4  |

