

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122819\  
 Data File : BF118371.D  
 Acq On : 28 Dec 2019 18:01  
 Operator : JU  
 Sample : K6438-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 29 07:03:08 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

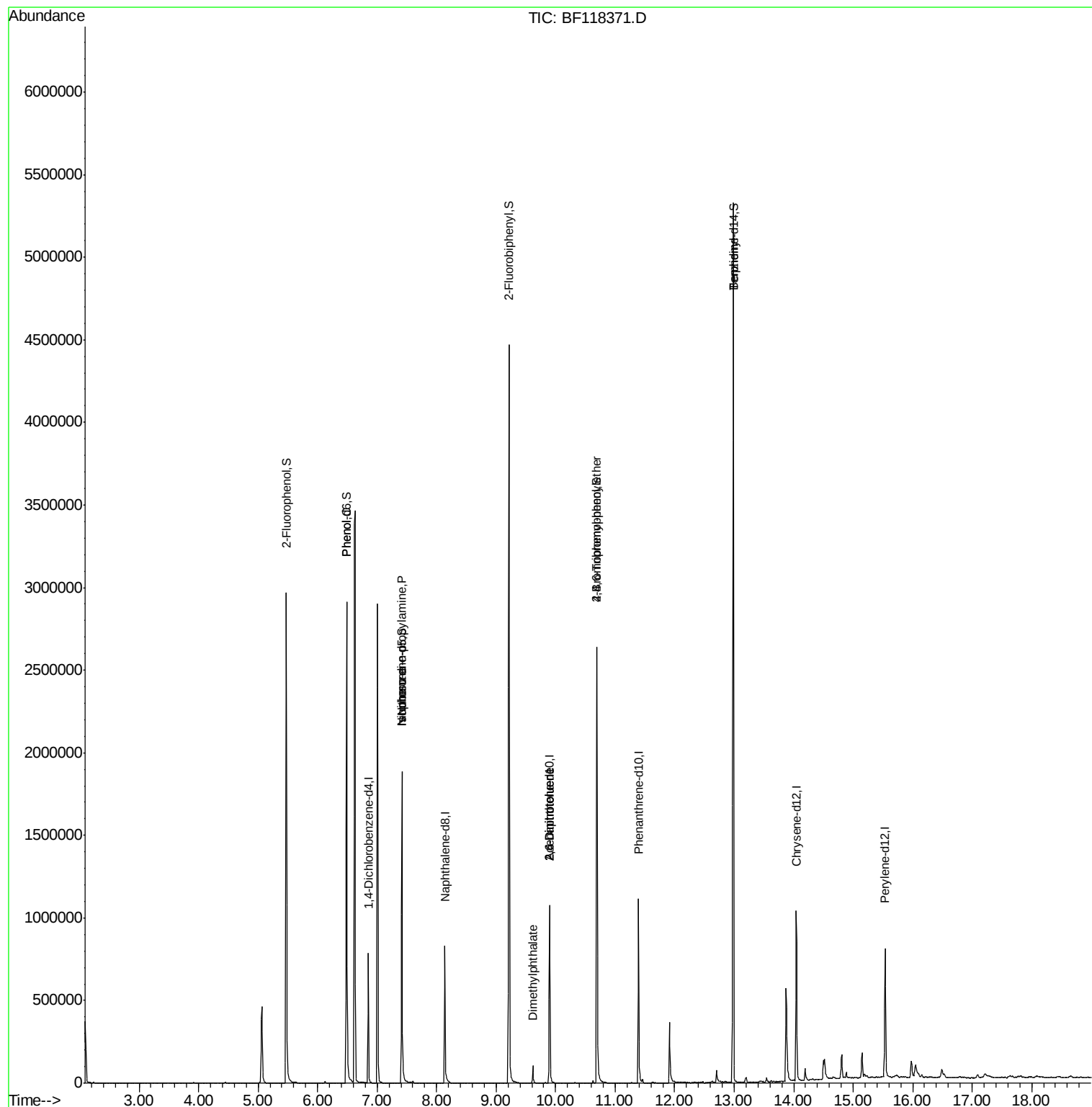
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 113717   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.14  | 136  | 439459   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.90  | 164  | 233314   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.39 | 188  | 456854   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.04 | 240  | 352066   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.54 | 264  | 345746   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 903404   | 135.61 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.49  | 99   | 1142127  | 138.20 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.42  | 82   | 679937   | 88.49  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 402619   | 139.74 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.22  | 172  | 1371418  | 89.73  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.99 | 244  | 1777462  | 83.76  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.50  | 94   | 33143    | 3.568  | ng    | 80       |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 91176    | 17.909 | ng    | # 78     |
| 25) Isophorone                 | 7.42  | 82   | 679930   | 50.776 | ng    | # 62     |
| 50) Dimethylphthalate          | 9.62  | 163  | 56570    | 3.230  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 29575    | 7.833  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 29575    | 5.862  | ng    | # 28     |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 24794    | 4.637  | ng    | # 1      |
| 77) Benzidine                  | 12.99 | 184  | 24332    | 2.522  | ng    | # 95     |

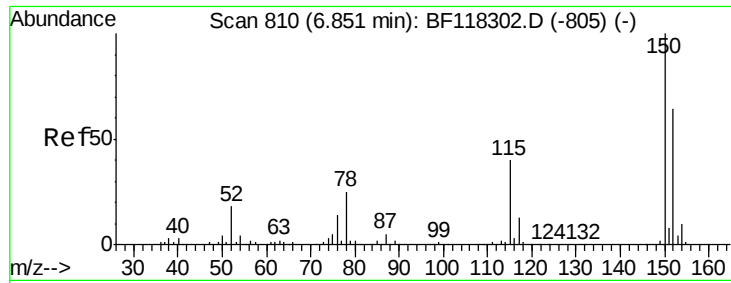
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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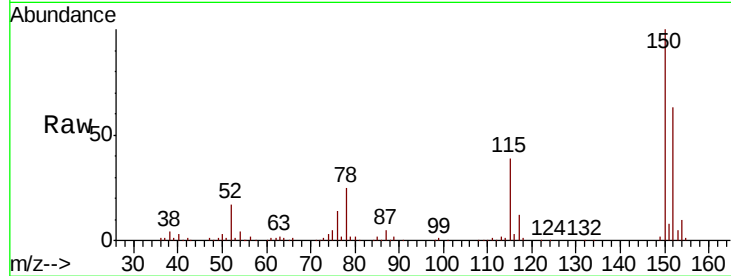


#1

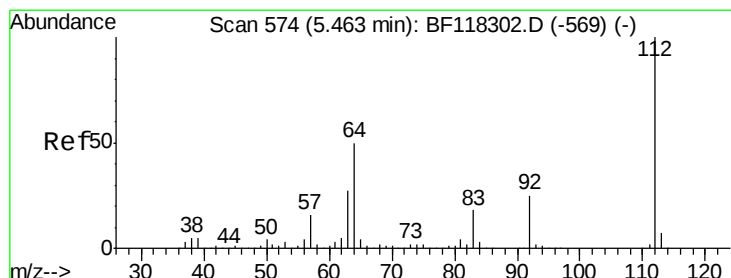
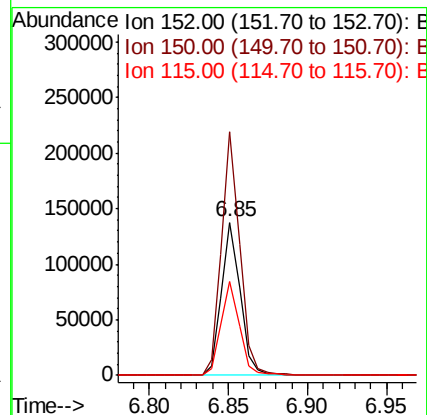
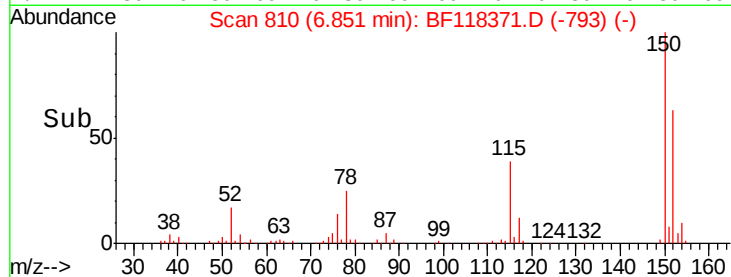
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.00 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 113717  
Ion Ratio Lower Upper  
152 100  
150 158.7 125.4 188.2  
115 61.6 50.2 75.4



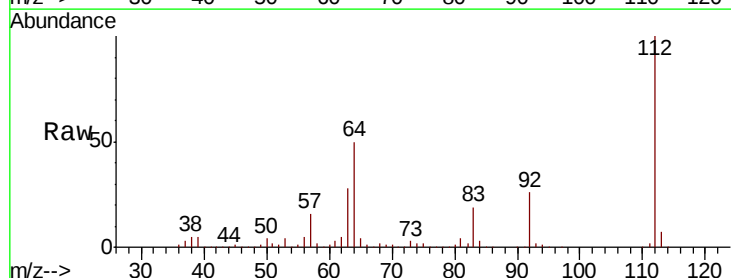
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



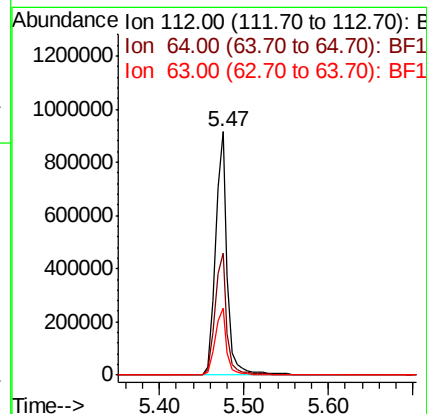
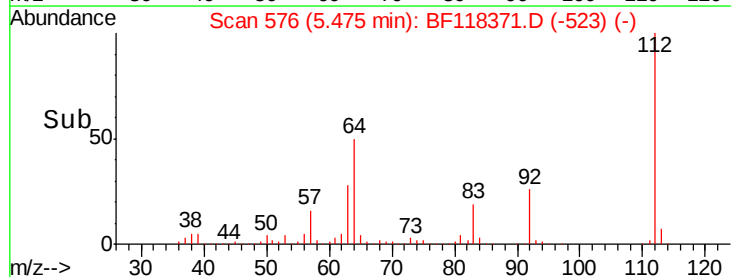
#5

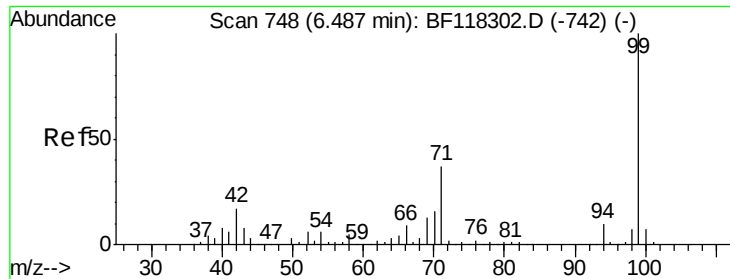
2-Fluorophenol  
Concen: 135.609 ng  
RT: 5.47 min Scan# 576  
Delta R.T. 0.01 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Tgt Ion:112 Resp: 903404  
Ion Ratio Lower Upper  
112 100  
64 50.1 39.7 59.5  
63 27.5 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: 138.202 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

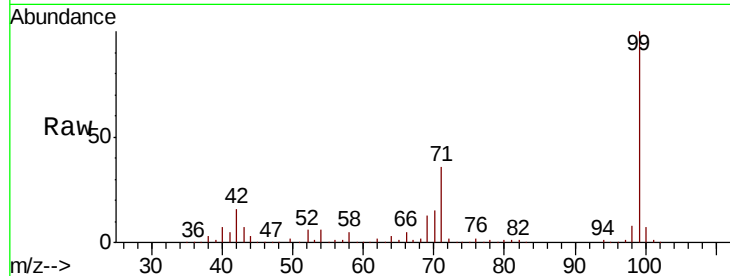
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1142127

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.1  | 13.5  | 20.3  |
| 71  | 36.0  | 29.4  | 44.2  |

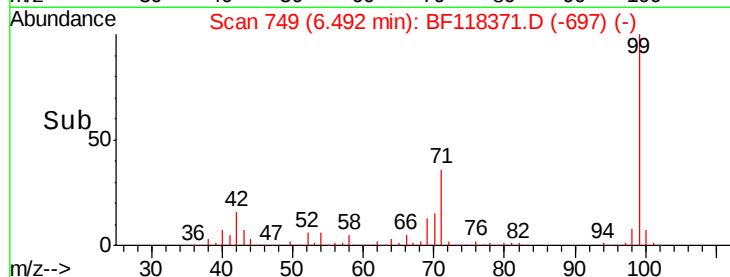


Abundance

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



6.49

1000000

500000

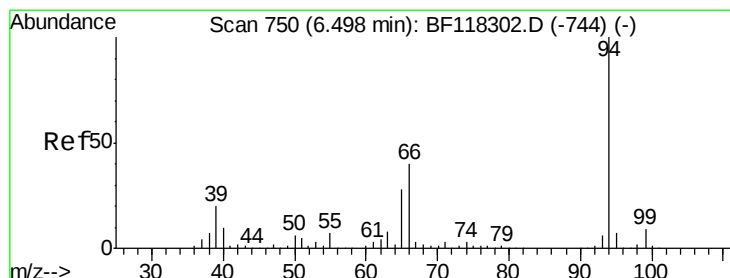
0

Time-->

6.40

6.50

6.60



#10

Phenol

Concen: 3.568 ng

RT: 6.50 min Scan# 750

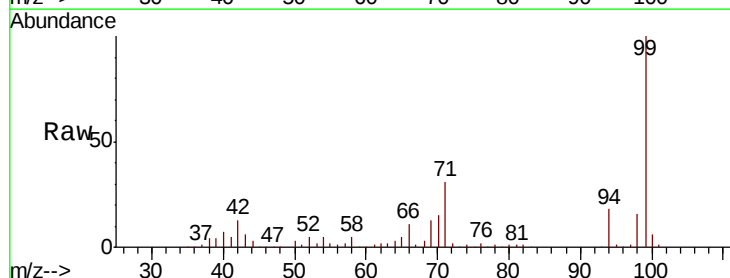
Delta R.T. -0.00 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

Tgt Ion: 94 Resp: 33143

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 30.3  | 7.8   | 47.8  |
| 66  | 59.5  | 20.4  | 60.4  |

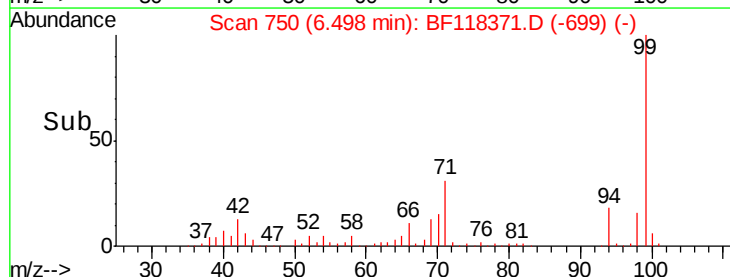


Abundance

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



150000

100000

50000

0

Time-->

6.45

6.50

6.55

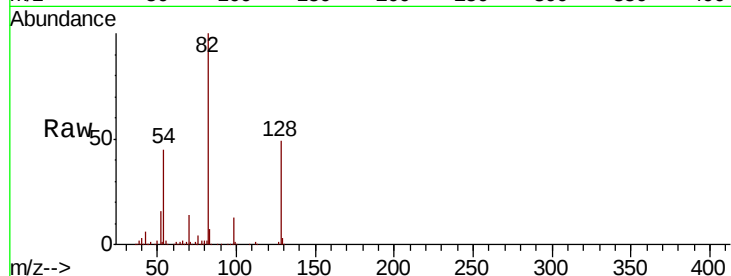
6.60



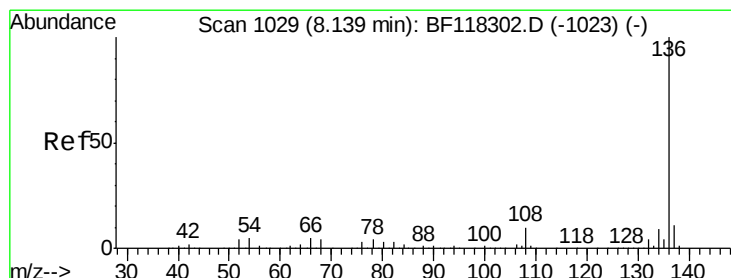
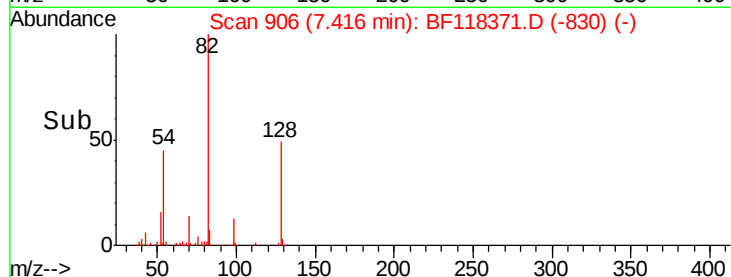
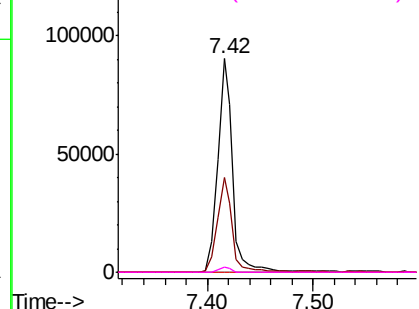
#19  
n-Nitroso-di-n-propylamine  
Concen: 17.909 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.15 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 70 Resp: 91176  
Ion Ratio Lower Upper  
70 100  
42 44.1 41.1 61.7  
101 0.0 8.3 12.5#  
130 2.6 20.1 30.1#

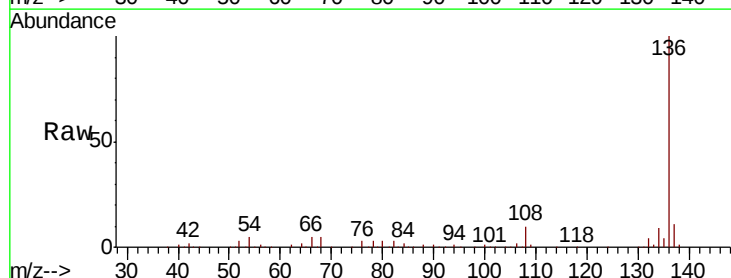


Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E

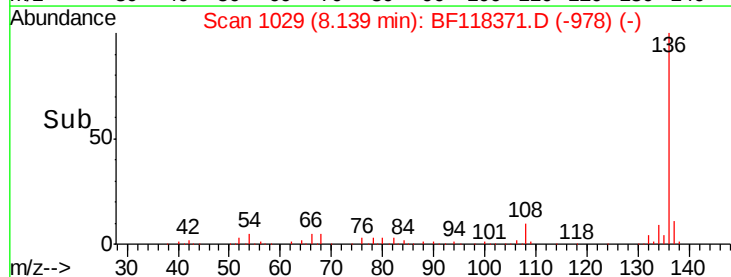
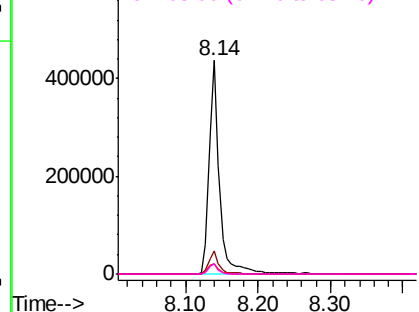


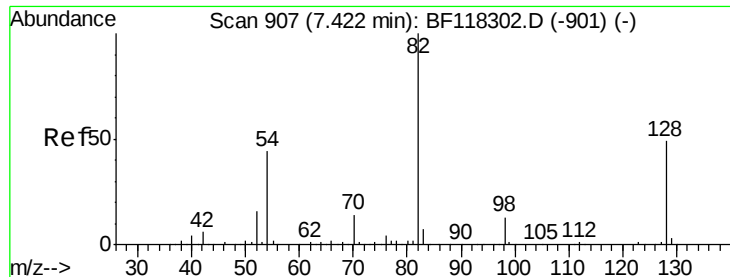
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. -0.00 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Tgt Ion:136 Resp: 439459  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.9 13.3  
54 5.0 4.2 6.4  
68 4.5 3.5 5.3



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

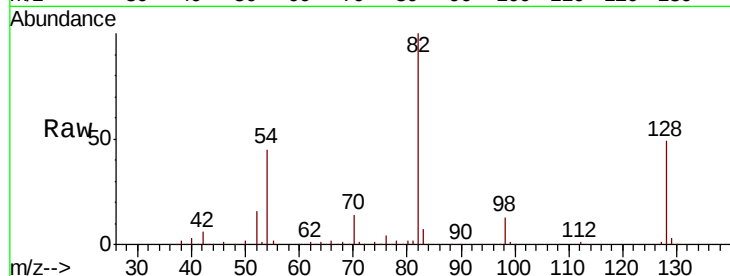




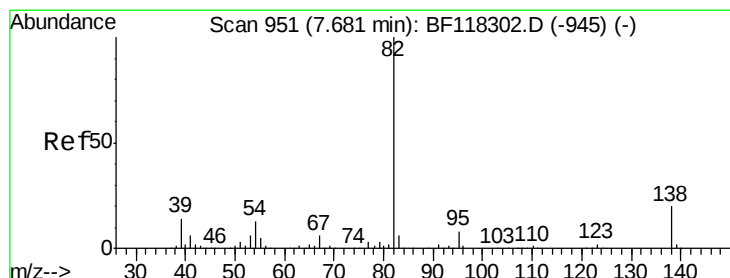
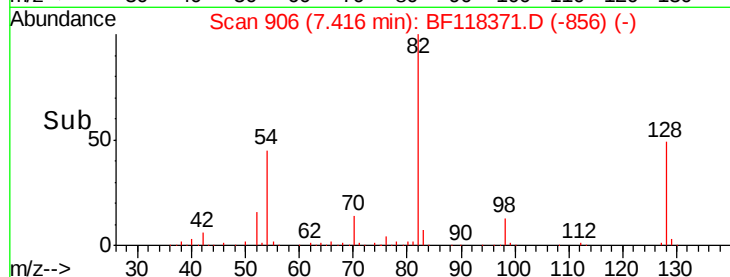
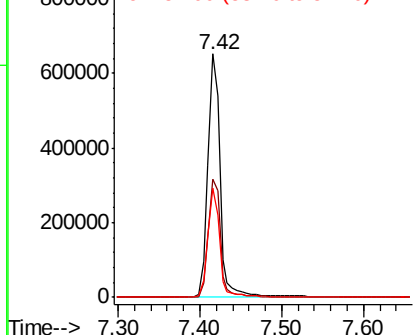
#23  
Nitrobenzene-d5  
Concen: 88.493 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82   | Resp  | 679937 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 48.6 | 39.6  | 59.4   |
| 54        | 45.0 | 34.9  | 52.3   |

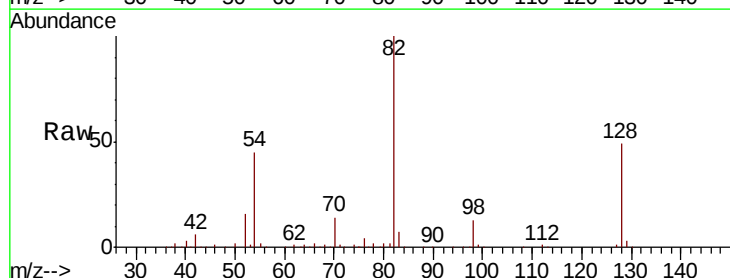


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

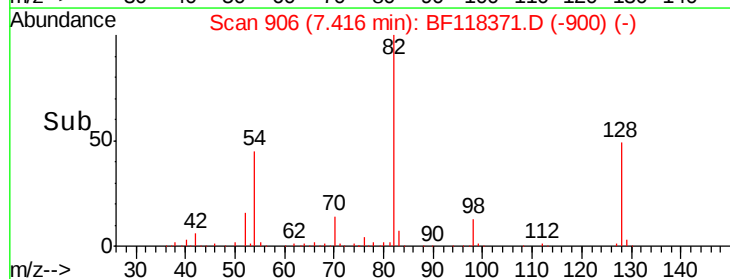
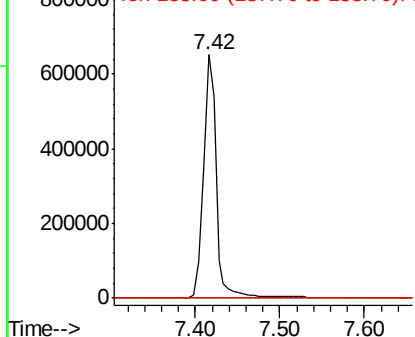


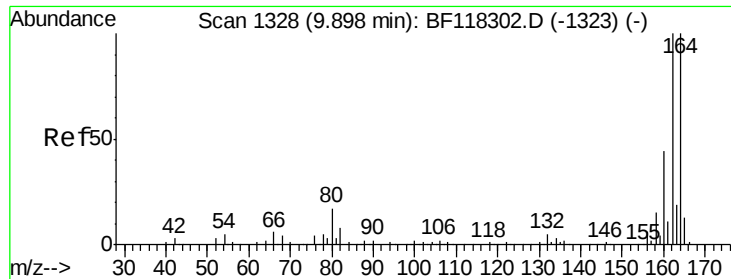
#25  
Isophorone  
Concen: 50.776 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.26 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

| Tgt Ion   | 82  | Resp  | 679930 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 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: BF118371.D

Acq: 28 Dec 2019 18:01

Instrument :

BNA\_F

ClientSampleId :

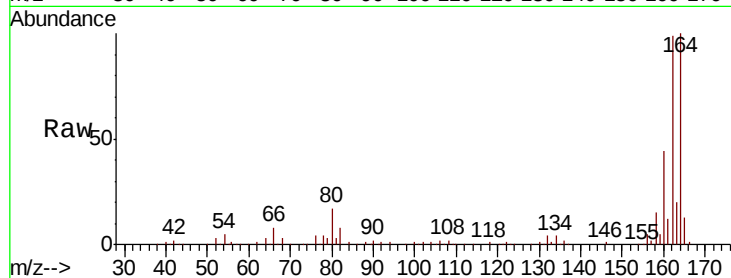
Tot Ion:164 Resp: 233314

Ion Ratio Lower Upper

164 100

162 99.5 80.0 120.0

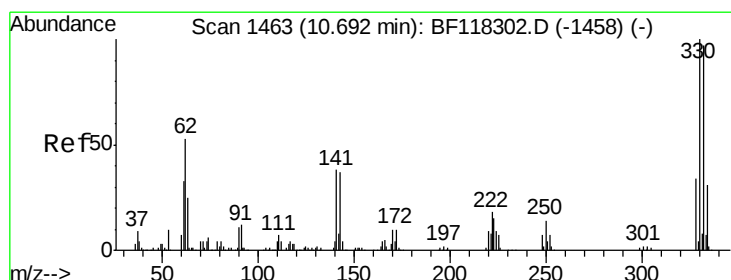
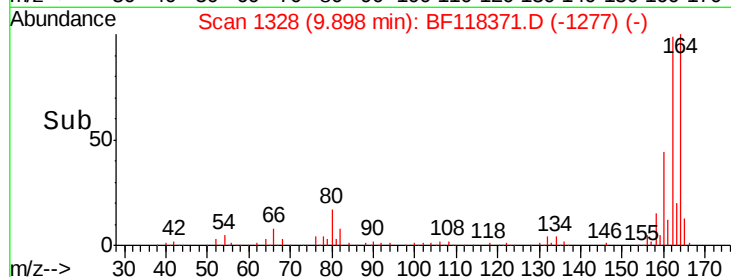
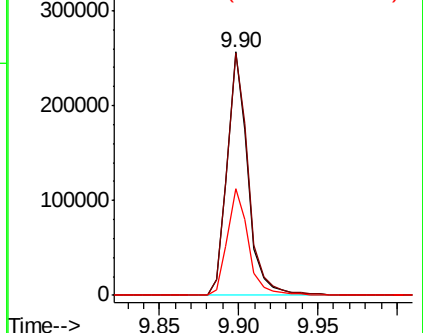
160 44.0 34.8 52.2



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: 139.737 ng

RT: 10.70 min Scan# 1464

Delta R.T. 0.01 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

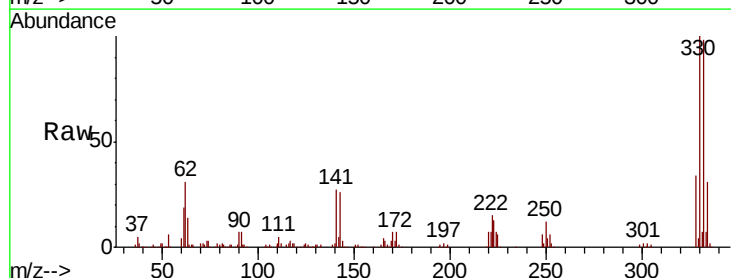
Tgt Ion:330 Resp: 402619

Ion Ratio Lower Upper

330 100

332 96.4 76.6 114.8

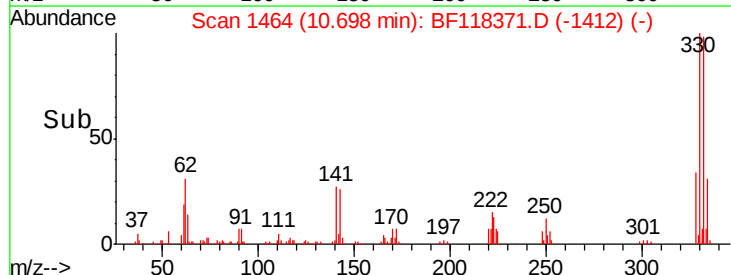
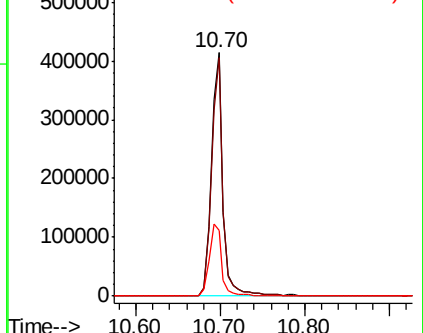
141 32.1 26.0 39.0

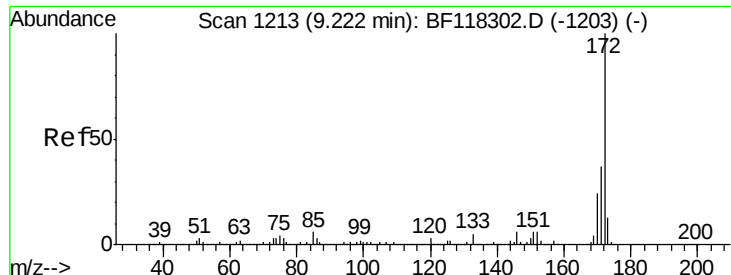


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

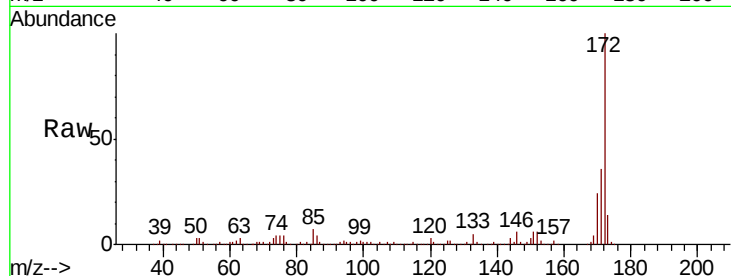




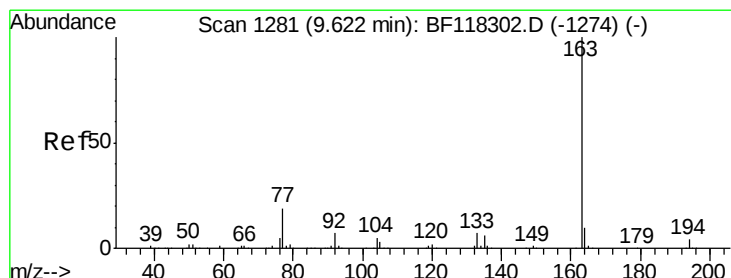
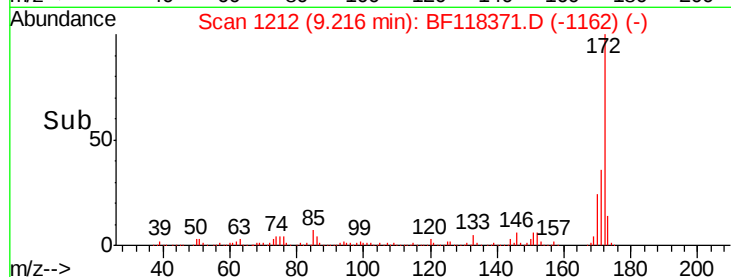
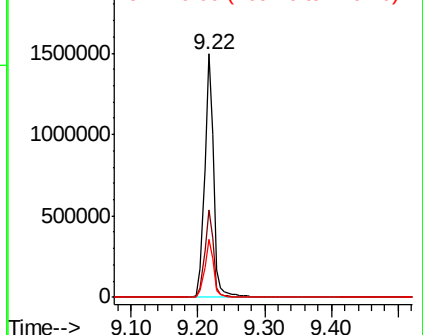
#45  
2-Fluorobiphenyl  
Concen: 89.726 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1371418  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.3 43.9  
170 23.7 19.2 28.8

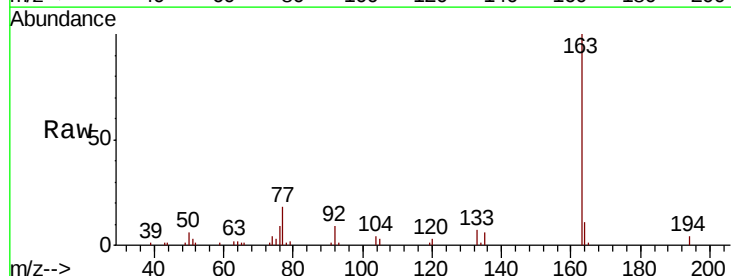


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

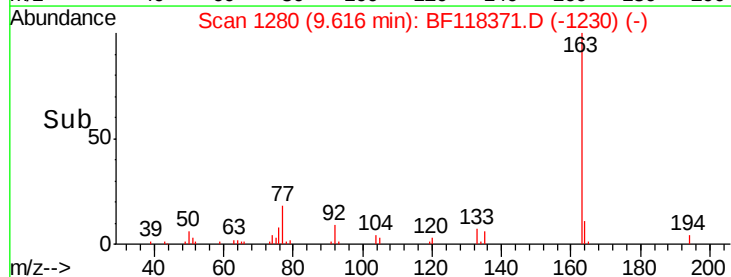
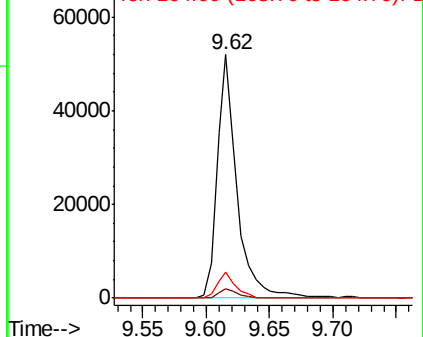


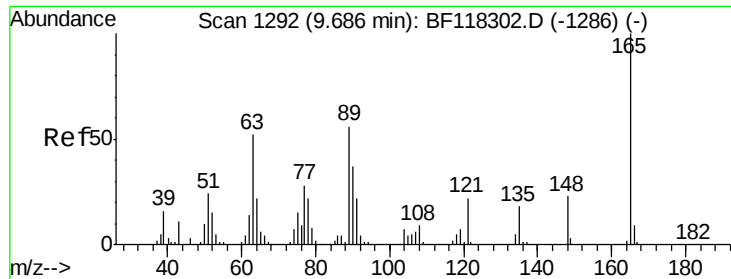
#50  
Dimethylphthalate  
Concen: 3.230 ng  
RT: 9.62 min Scan# 1280  
Delta R.T. -0.01 min  
Lab File: BF118371.D  
Acq: 28 Dec 2019 18:01

Tgt Ion:163 Resp: 56570  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.2 4.8  
164 10.5 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: 7.833 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.21 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

Instrument :

BNA\_F

ClientSampleId :

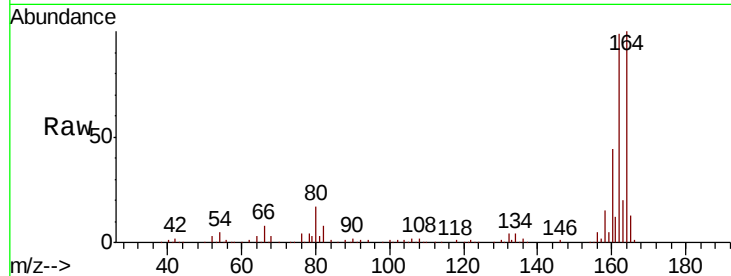
Tot Ion:165 Resp: 29575

Ion Ratio Lower Upper

165 100

63 0.0 42.2 63.4#

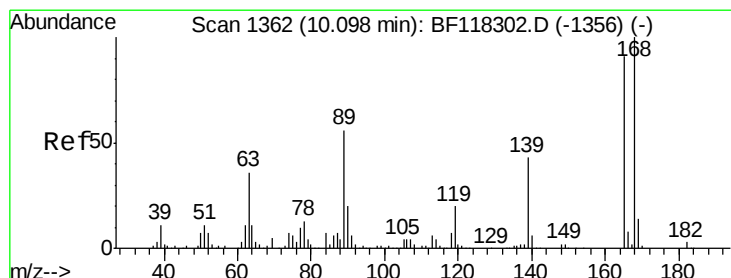
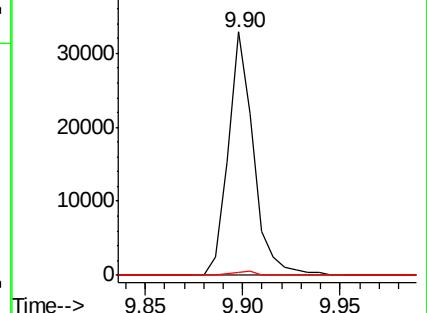
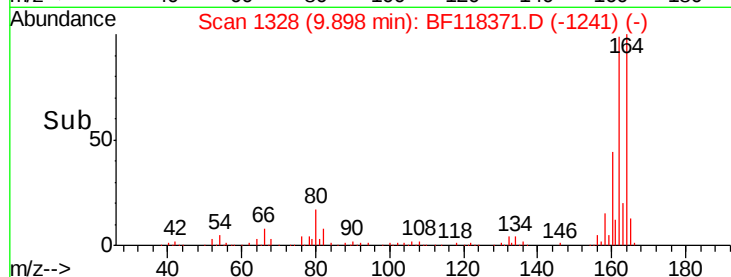
89 1.0 44.4 66.6#



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: 5.862 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.20 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

Tgt Ion:165 Resp: 29575

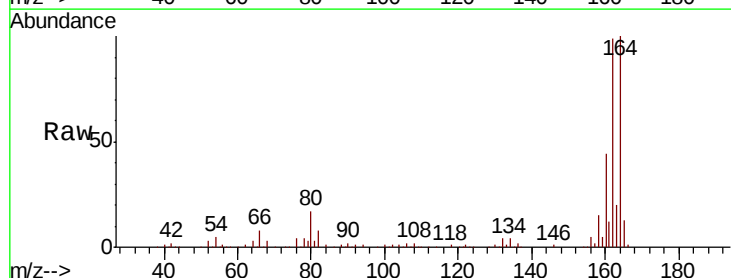
Ion Ratio Lower Upper

165 100

63 0.0 32.0 48.0#

89 1.0 49.3 73.9#

182 0.0 2.4 3.6#

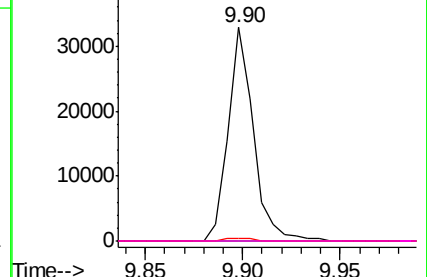
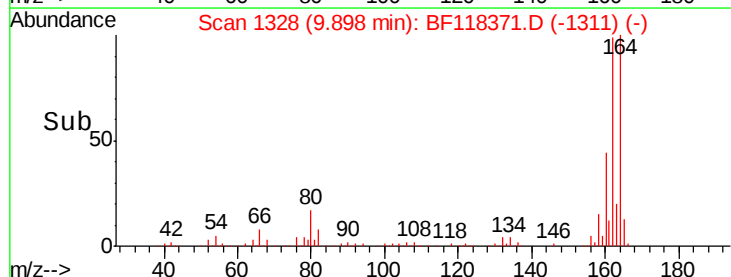


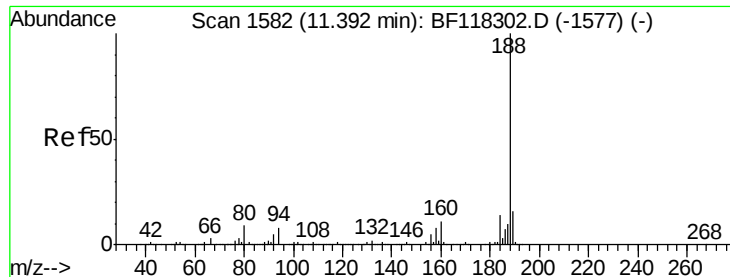
Abundance Ion 165.00 (164.70 to 165.70): E

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: BF118371.D

Acq: 28 Dec 2019 18:01

Instrument :

BNA\_F

ClientSampleId :

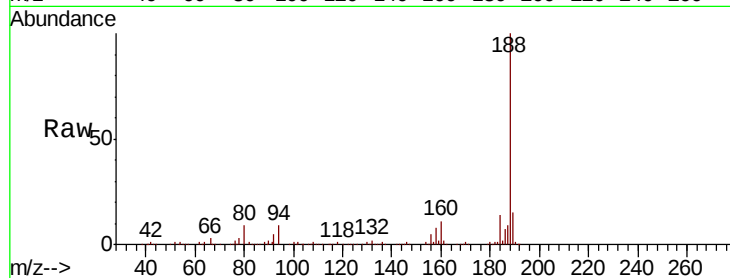
Tot Ion:188 Resp: 456854

Ion Ratio Lower Upper

188 100

94 8.7 6.7 10.1

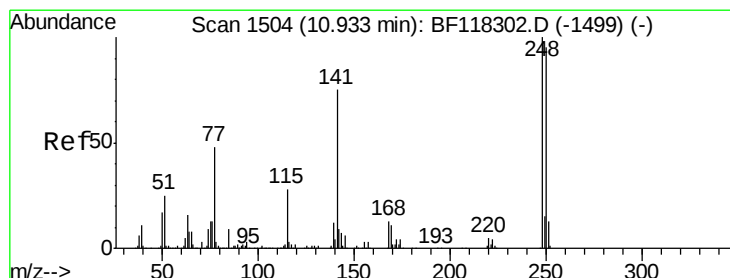
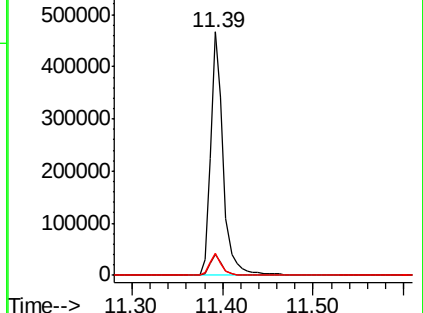
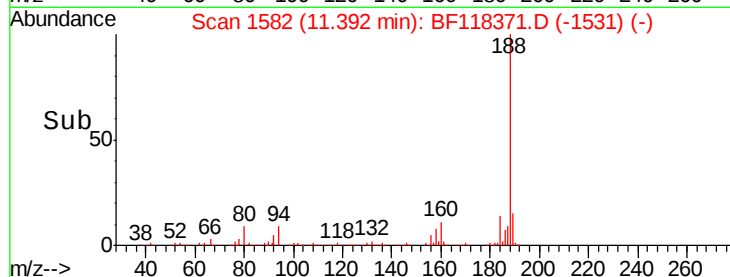
80 9.3 7.2 10.8



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: 4.637 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.24 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

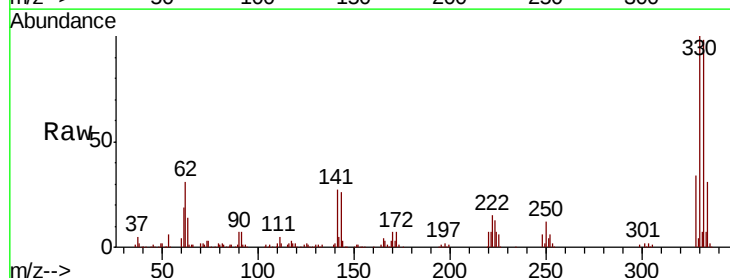
Tgt Ion:248 Resp: 24794

Ion Ratio Lower Upper

248 100

250 205.8 76.4 114.6#

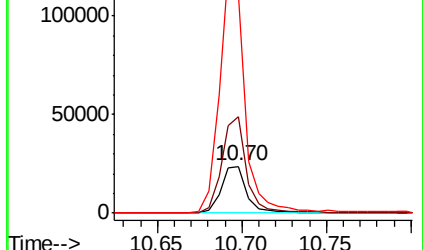
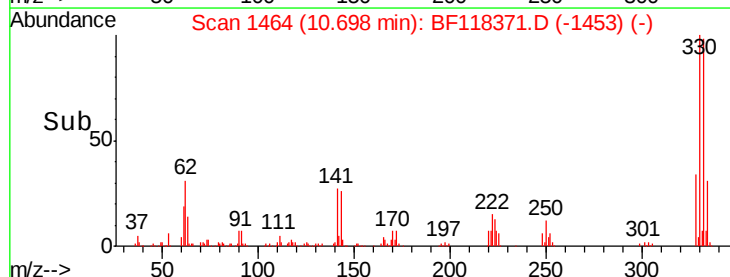
141 470.1 60.2 90.2#

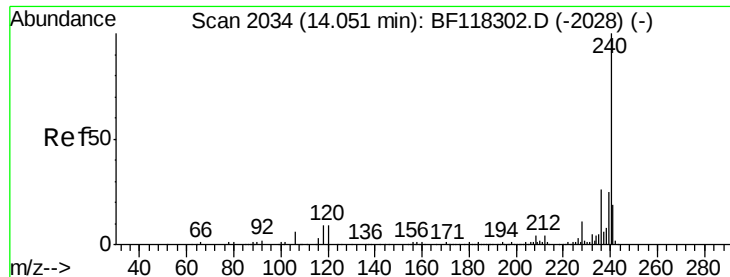


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

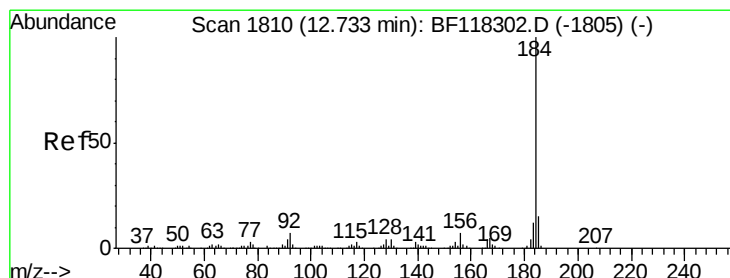
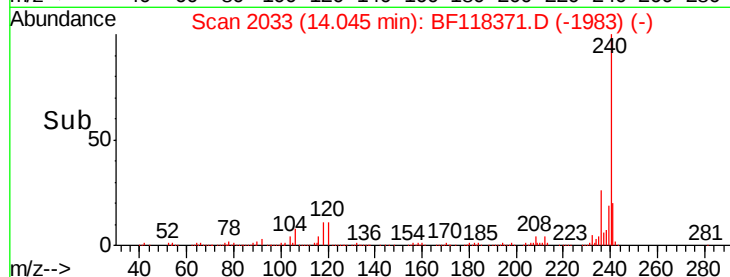
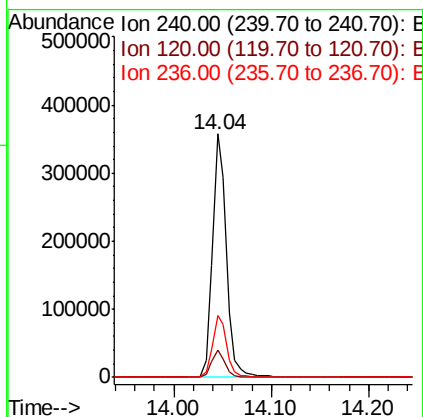
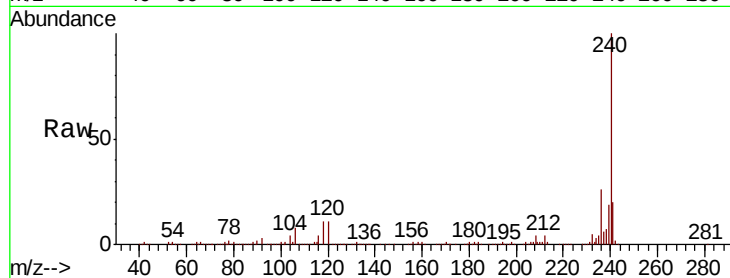




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF118371.D  
 Acq: 28 Dec 2019 18:01

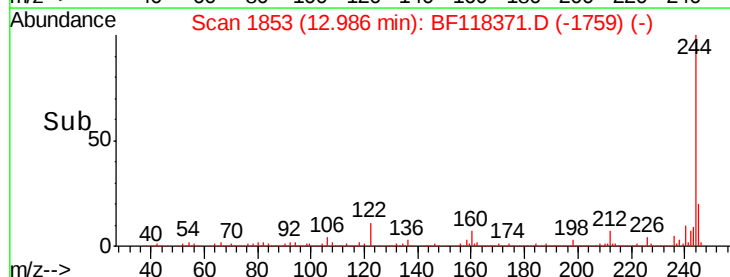
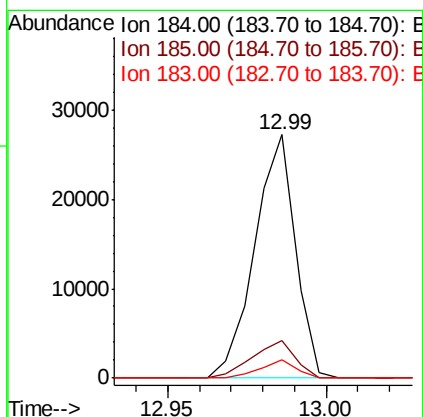
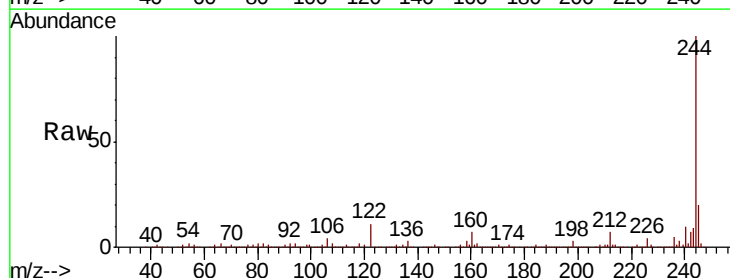
Instrument :  
 BNA\_F  
 ClientSampleId :

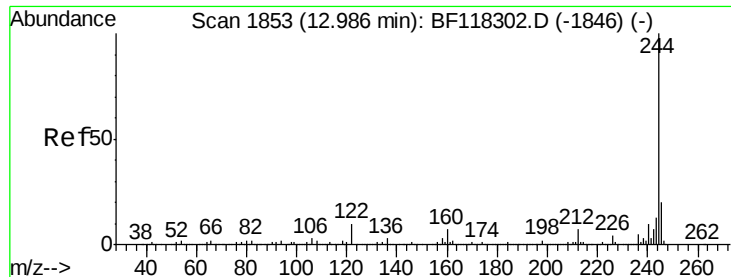
Tot Ion:240 Resp: 352066  
 Ion Ratio Lower Upper  
 240 100  
 120 11.1 7.1 10.7#  
 236 25.5 21.0 31.6



#77  
 Benzidine  
 Concen: 2.522 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. 0.25 min  
 Lab File: BF118371.D  
 Acq: 28 Dec 2019 18:01

Tgt Ion:184 Resp: 24332  
 Ion Ratio Lower Upper  
 184 100  
 185 15.6 12.3 18.5  
 183 7.5 9.4 14.2#





#79

Terphenyl-d14

Concen: 83.759 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.00 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

Instrument :

BNA\_F

ClientSampleId :

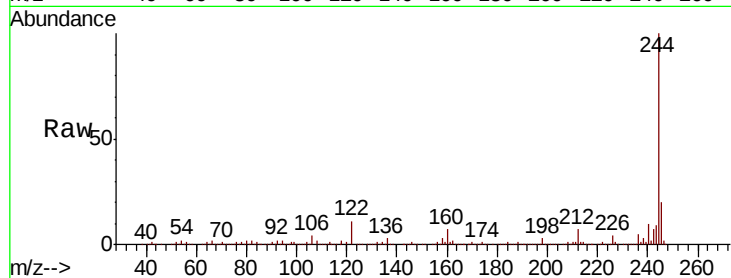
Tot Ion:244 Resp: 1777462

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.2

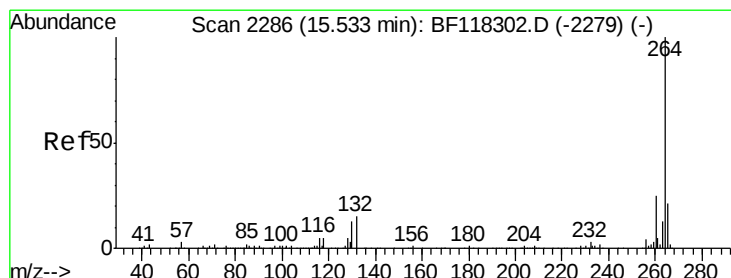
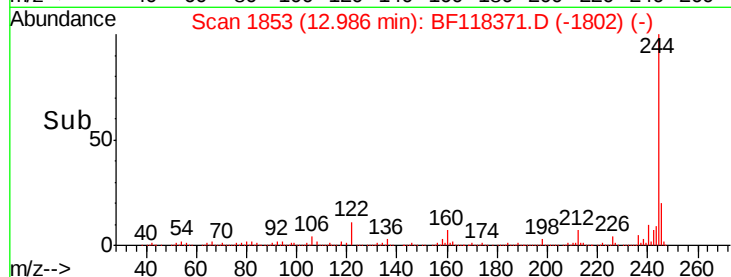
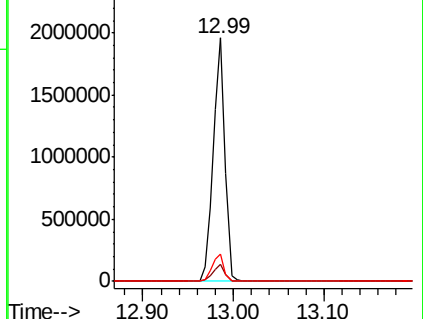
122 11.4 7.8 11.8



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

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2287

Delta R.T. 0.01 min

Lab File: BF118371.D

Acq: 28 Dec 2019 18:01

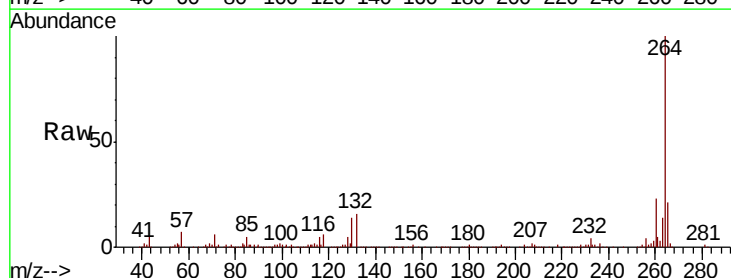
Tgt Ion:264 Resp: 345746

Ion Ratio Lower Upper

264 100

260 23.3 19.8 29.6

265 21.5 17.0 25.4



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

