

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112519\  
 Data File : BF117995.D  
 Acq On : 26 Nov 2019 5:01  
 Operator : JU  
 Sample : K5840-09 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 26 06:06:38 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 05:38:20 2019  
 Response via : Initial Calibration

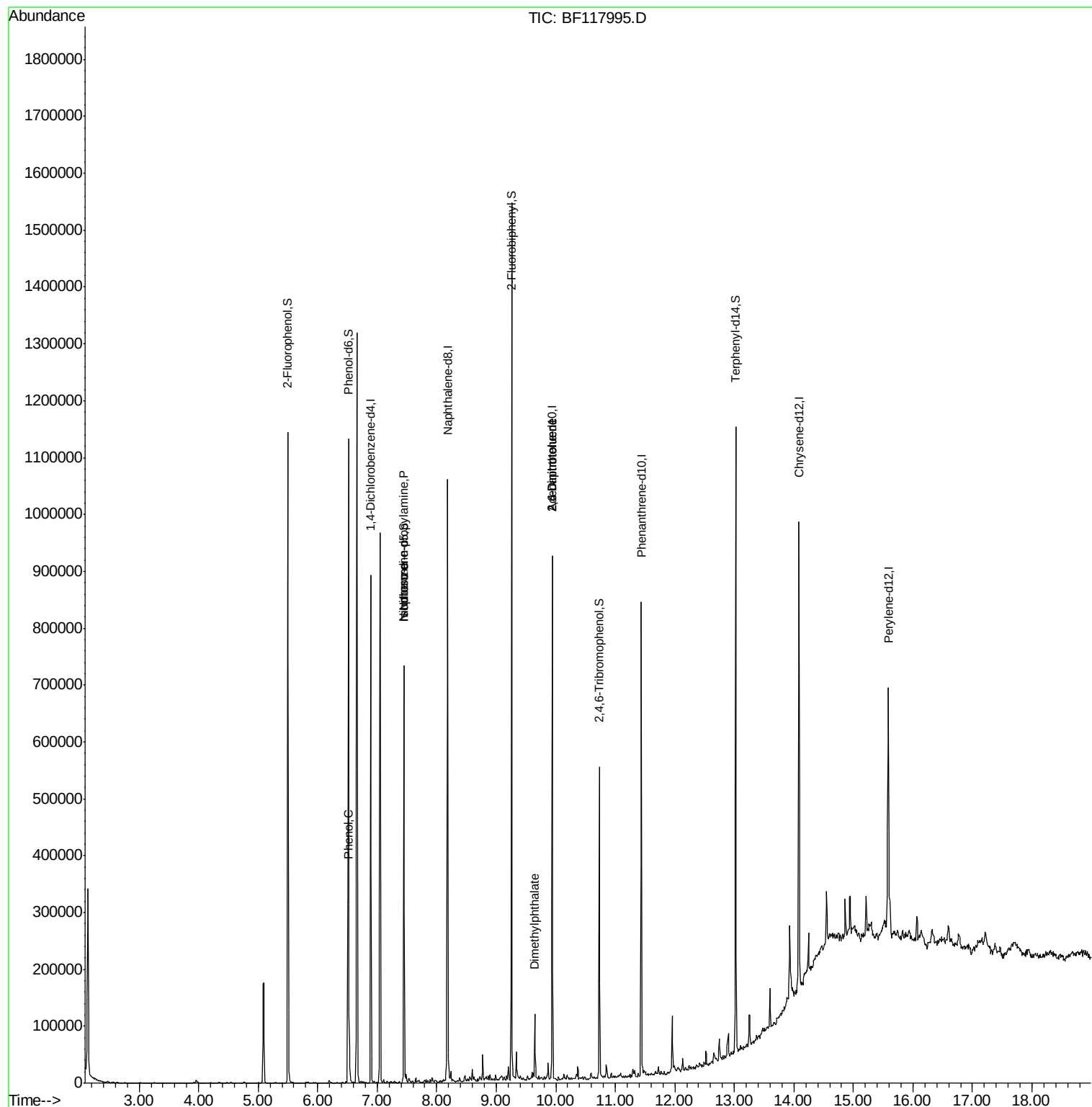
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 119869   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.18  | 136  | 426429   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.94  | 164  | 182188   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.43 | 188  | 286558   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 14.09 | 240  | 238443   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.59 | 264  | 205264   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 296560   | 43.79     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 368862   | 45.16     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 203215   | 28.33     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.73 | 330  | 67202    | 34.84     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.26  | 172  | 396273   | 39.02     | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.02 | 244  | 351553   | 26.95     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.66  | 77   | 7118     | Below Cal |       | 83       |
| 10) Phenol                     | 6.53  | 94   | 19378    | 2.283 ng  |       | 97       |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 27205    | 5.399 ng  | #     | 76       |
| 25) Isophorone                 | 7.45  | 82   | 203212   | 15.456 ng | #     | 62       |
| 50) Dimethylphthalate          | 9.65  | 163  | 37705    | 2.951 ng  |       | 97       |
| 51) 2,6-Dinitrotoluene         | 9.94  | 165  | 23418    | 8.387 ng  | #     | 23       |
| 57) 2,4-Dinitrotoluene         | 9.94  | 165  | 23418    | 6.593 ng  | #     | 25       |
| 75) Fluoranthene               | 12.65 | 202  | 6105     | Below Cal |       | 96       |

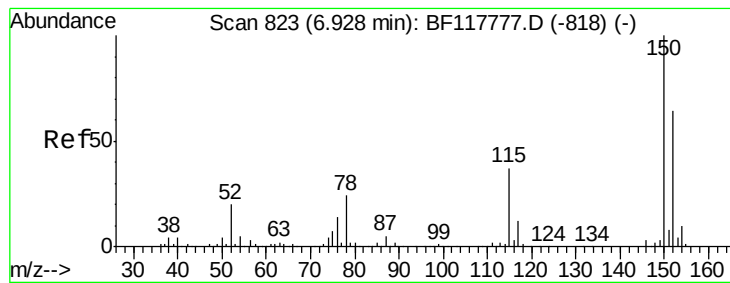
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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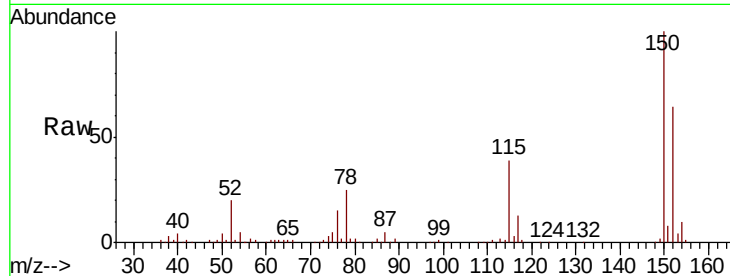


#1

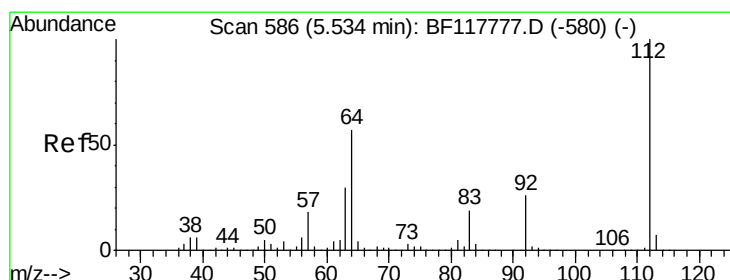
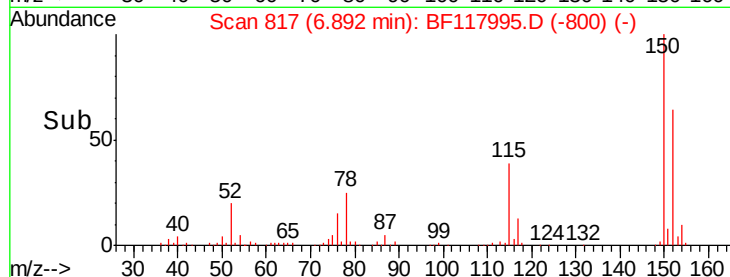
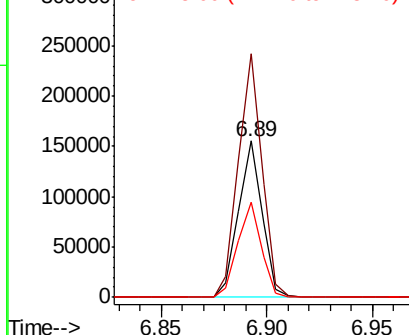
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. 0.00 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 119869  
Ion Ratio Lower Upper  
152 100  
150 156.0 125.3 187.9  
115 60.7 47.0 70.4



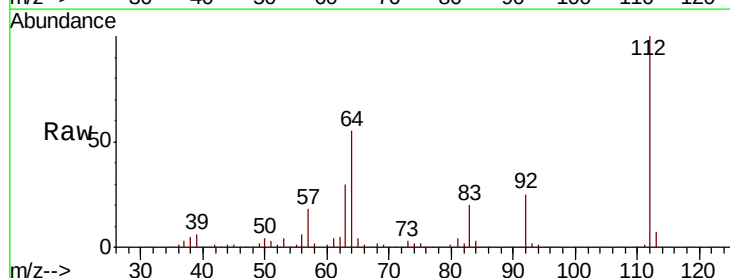
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



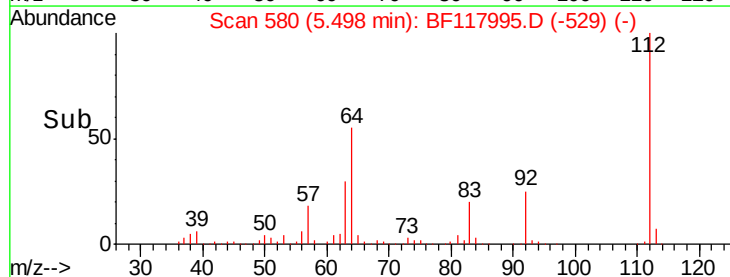
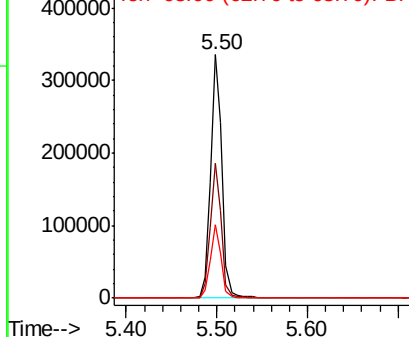
#5

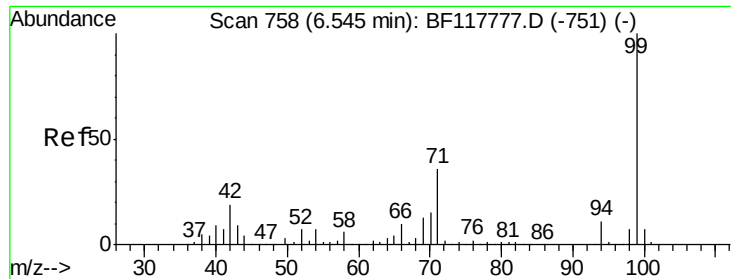
2-Fluorophenol  
Concen: 43.793 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.00 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Tgt Ion:112 Resp: 296560  
Ion Ratio Lower Upper  
112 100  
64 55.4 45.6 68.4  
63 30.4 24.1 36.1



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: 45.160 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF117995.D

Acq: 26 Nov 2019 5:01

Instrument :

BNA\_F

ClientSampled :

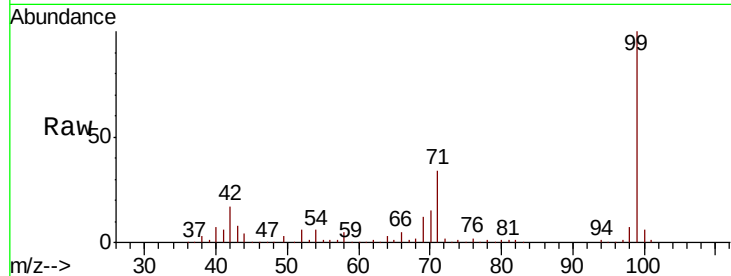
Tot Ion: 99 Resp: 368862

Ion Ratio Lower Upper

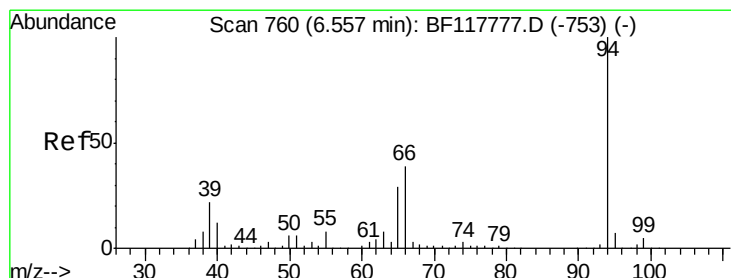
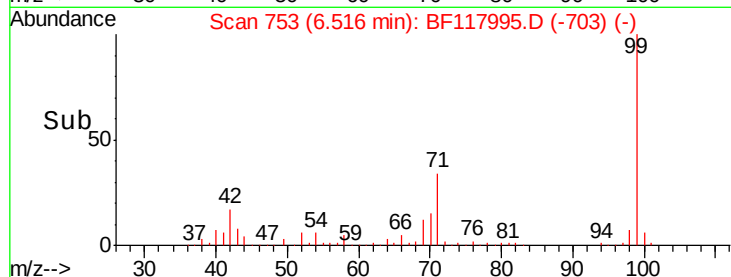
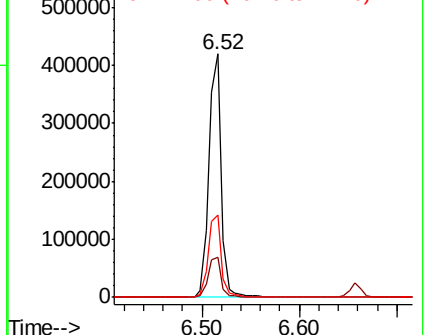
99 100

42 16.5 14.9 22.3

71 34.0 28.6 43.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.283 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF117995.D

Acq: 26 Nov 2019 5:01

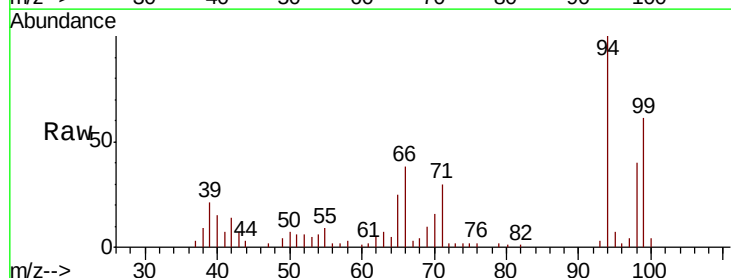
Tgt Ion: 94 Resp: 19378

Ion Ratio Lower Upper

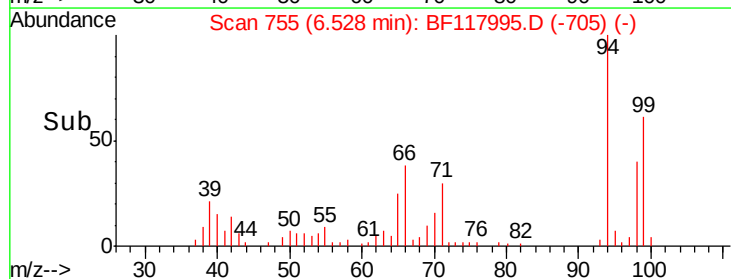
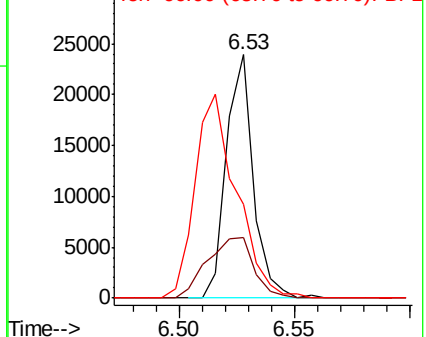
94 100

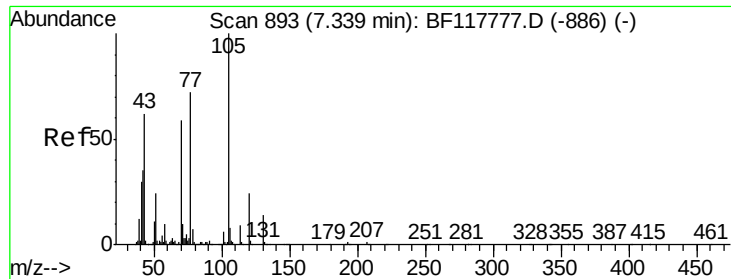
65 24.9 8.9 48.9

66 38.4 18.7 58.7



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

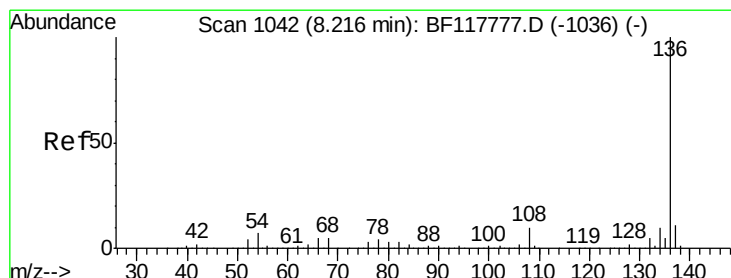
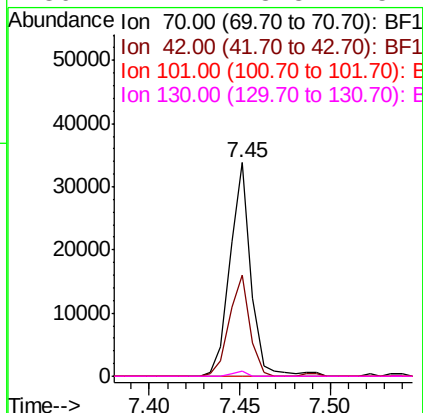
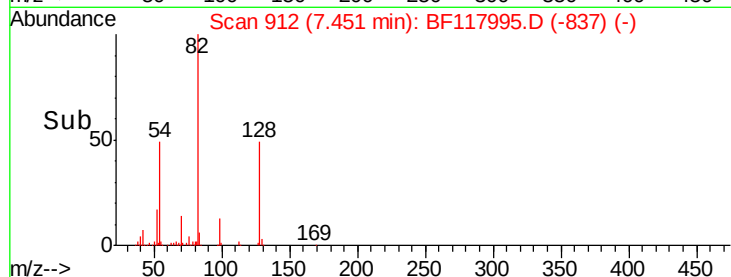
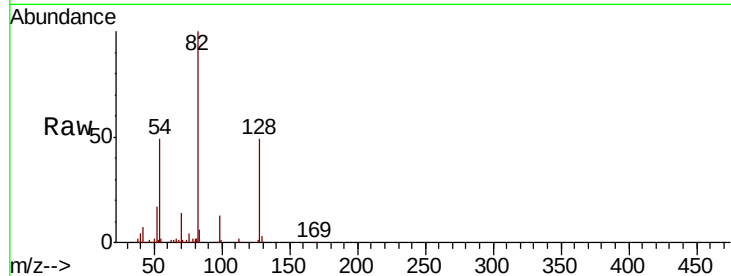




#19  
n-Nitroso-di-n-propylamine  
Concen: 5.399 ng  
RT: 7.45 min Scan# 912  
Delta R.T. 0.14 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

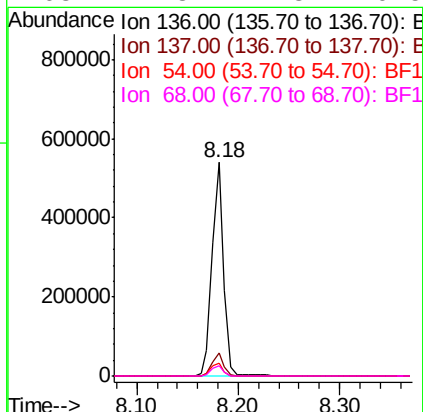
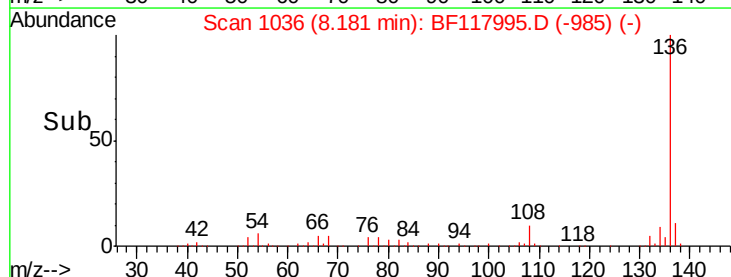
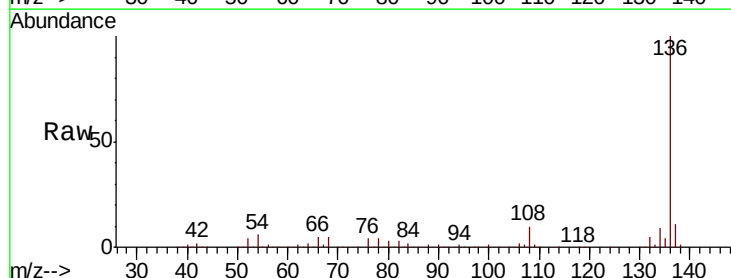
Instrument :  
BNA\_F  
ClientSampleId :

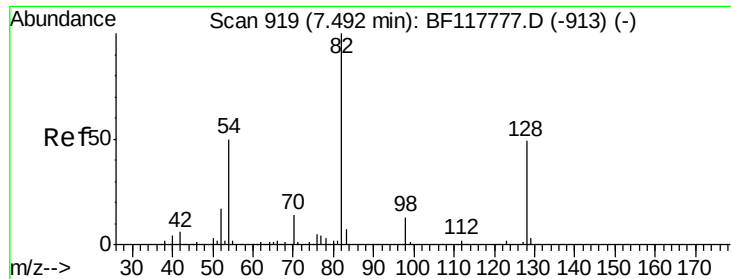
Tot Ion: 70 Resp: 27205  
Ion Ratio Lower Upper  
70 100  
42 47.6 47.4 71.2  
101 0.0 8.4 12.6#  
130 2.7 18.8 28.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. 0.00 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Tgt Ion: 136 Resp: 426429  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.4  
54 6.2 5.4 8.2  
68 4.8 4.3 6.5

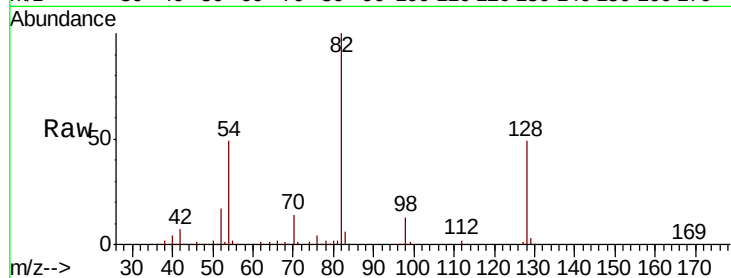




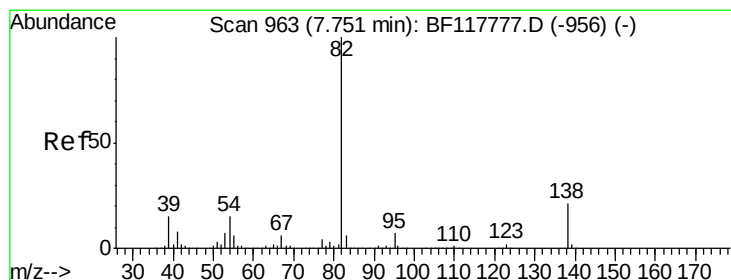
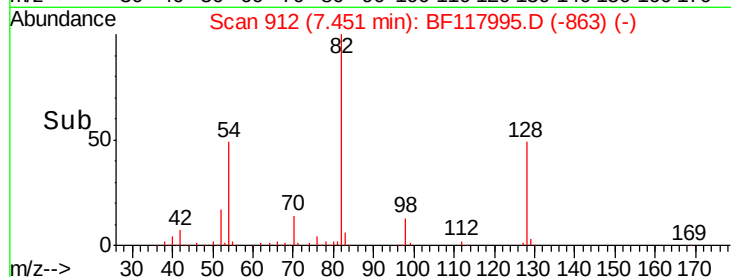
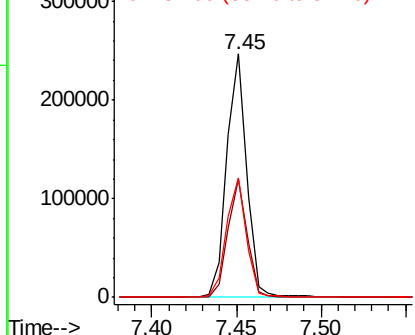
#23  
Nitrobenzene-d5  
Concen: 28.329 ng  
RT: 7.45 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 203215 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 48.8  | 38.9  | 58.3   |
| 54        | 49.1  | 39.8  | 59.6   |

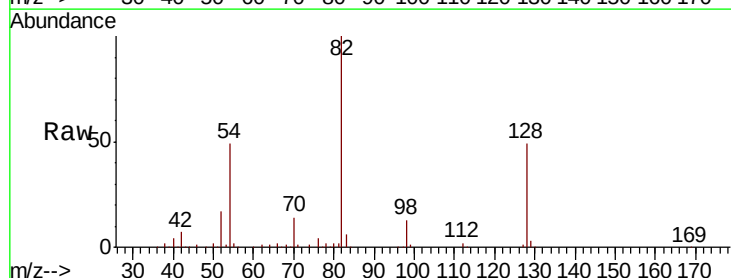


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

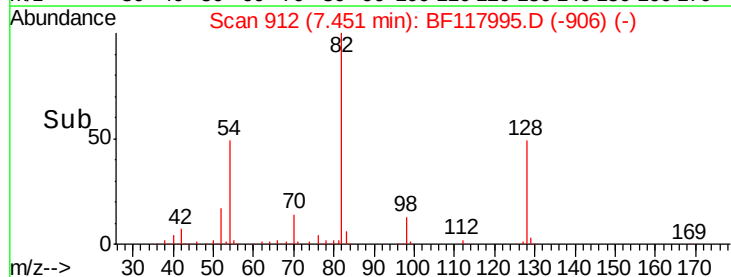
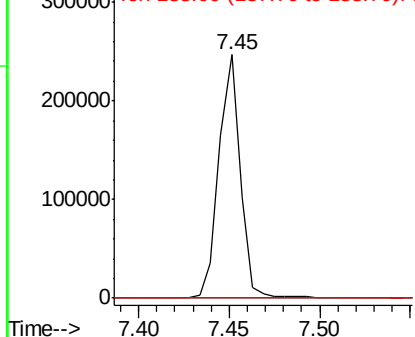


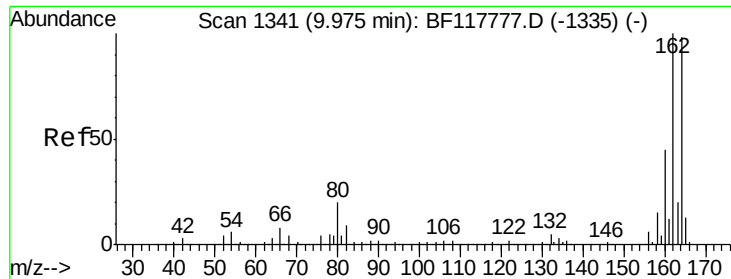
#25  
Isophorone  
Concen: 15.456 ng  
RT: 7.45 min Scan# 912  
Delta R.T. -0.26 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

| Tgt Ion   | 82    | Resp  | 203212 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.8   | 8.8#   |
| 138       | 0.0   | 16.5  | 24.7#  |



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

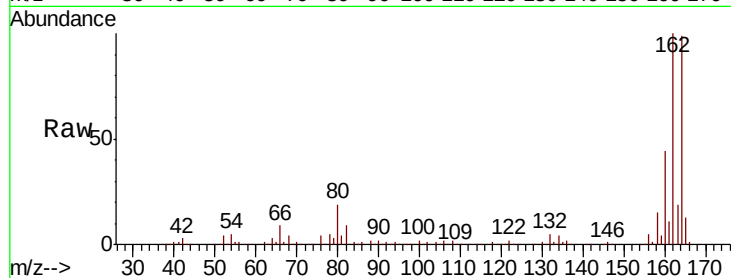




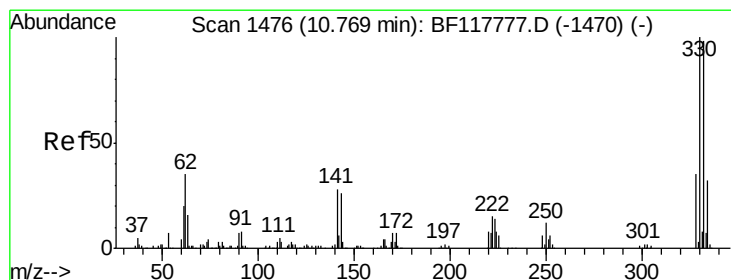
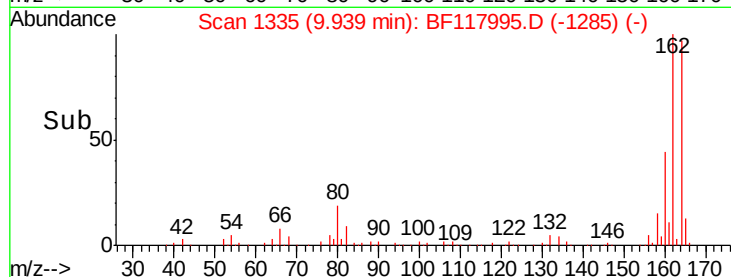
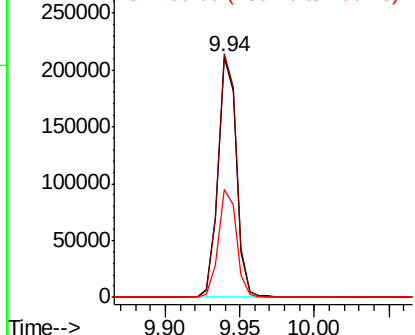
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. -0.01 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:164 Resp: 182188  
Ion Ratio Lower Upper  
164 100  
162 101.4 81.3 121.9  
160 44.9 36.6 55.0

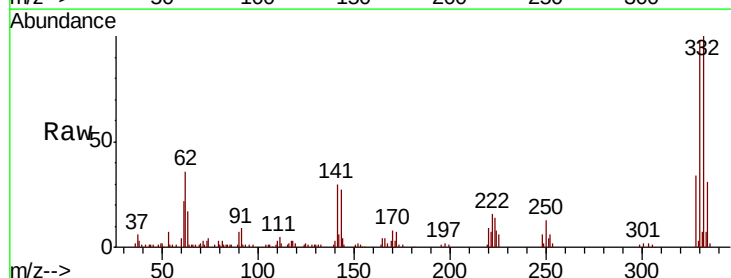


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

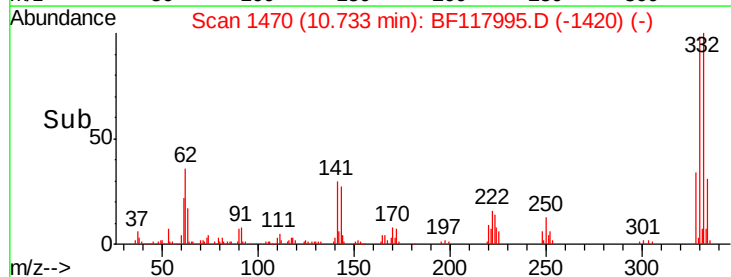
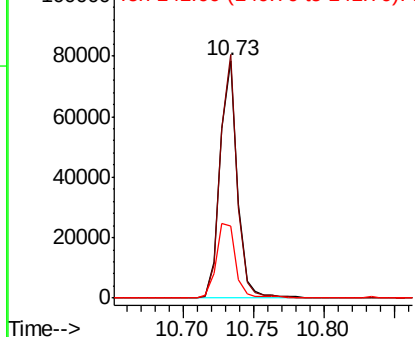


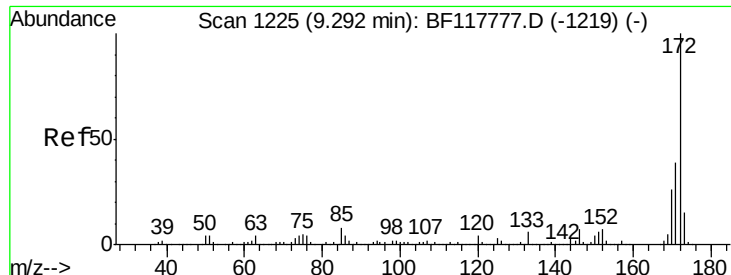
#42  
2,4,6-Tribromophenol  
Concen: 34.841 ng  
RT: 10.73 min Scan# 1470  
Delta R.T. -0.01 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Tgt Ion:330 Resp: 67202  
Ion Ratio Lower Upper  
330 100  
332 98.7 76.7 115.1  
141 35.4 27.7 41.5



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

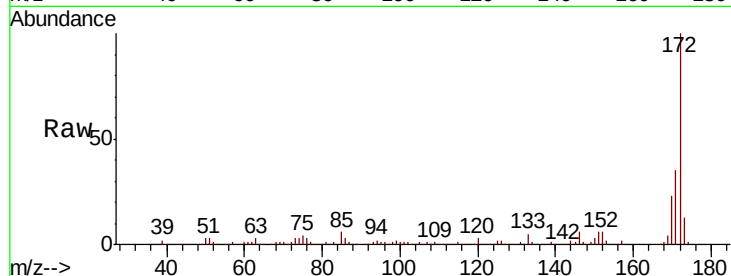




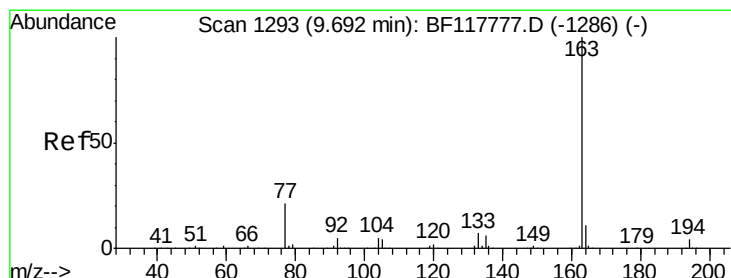
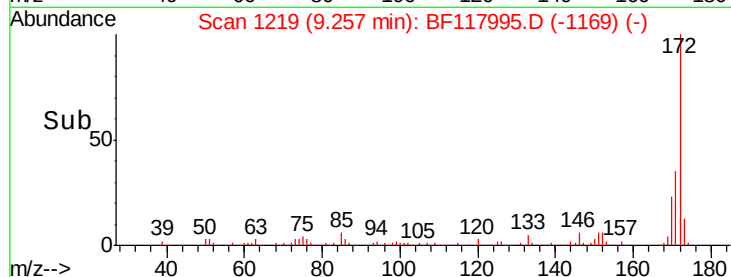
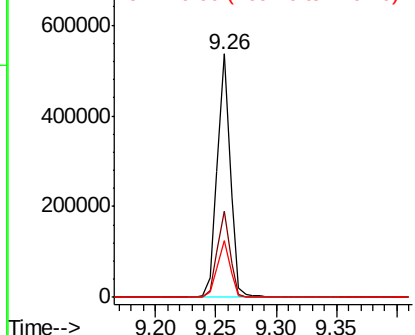
#45  
2-Fluorobiphenyl  
Concen: 39.022 ng  
RT: 9.26 min Scan# 1219  
Delta R.T. -0.01 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 30.9  | 46.3  |
| 170     | 23.5  | 21.0  | 31.4  |

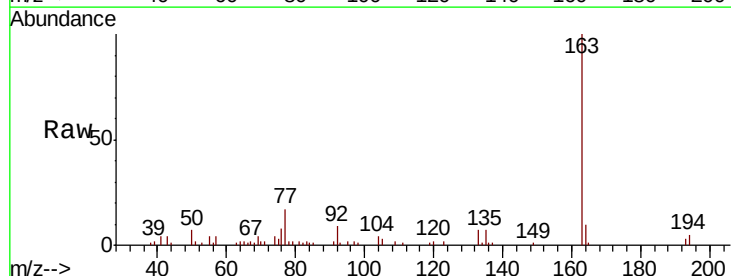


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

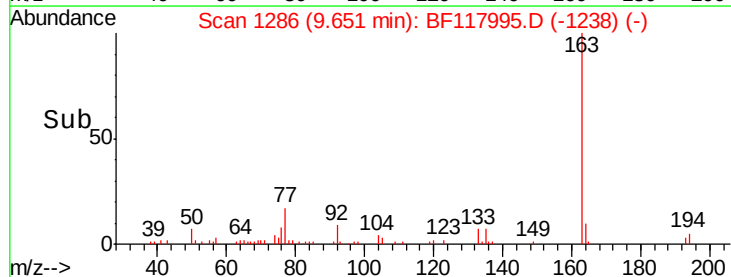
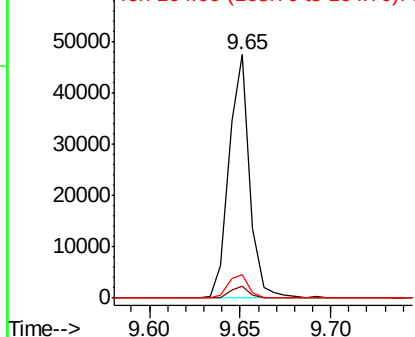


#50  
Dimethylphthalate  
Concen: 2.951 ng  
RT: 9.65 min Scan# 1286  
Delta R.T. -0.02 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

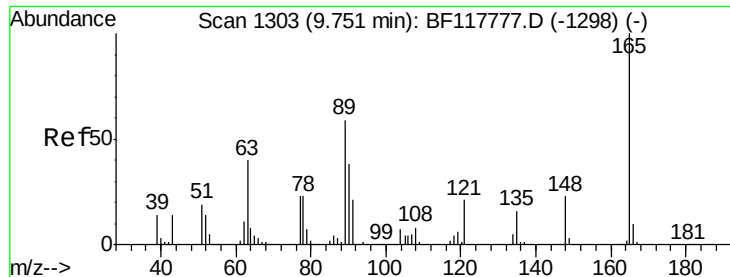
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.8   | 3.3   | 4.9   |
| 164     | 9.7   | 8.7   | 13.1  |



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



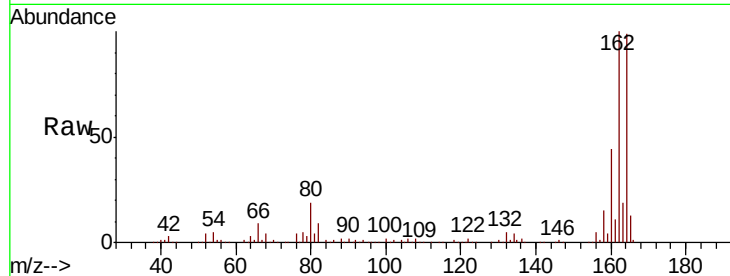




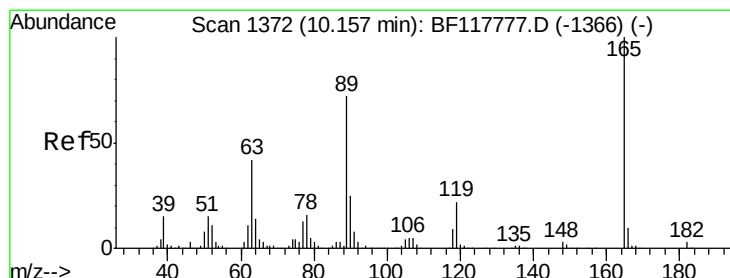
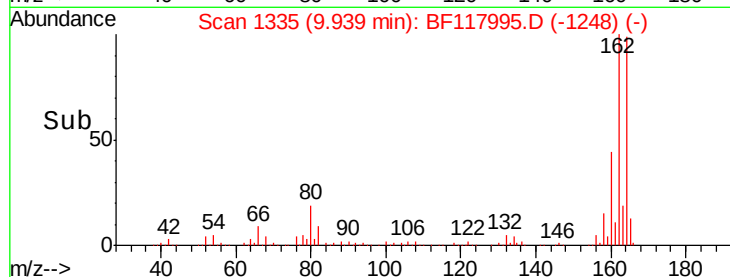
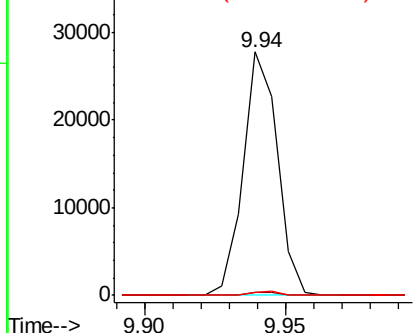
#51  
 2,6-Dinitrotoluene  
 Concen: 8.387 ng  
 RT: 9.94 min Scan# 1335  
 Delta R.T. 0.21 min  
 Lab File: BF117995.D  
 Acq: 26 Nov 2019 5:01

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 46.0  | 69.0# |
| 89      | 1.3   | 47.7  | 71.5# |



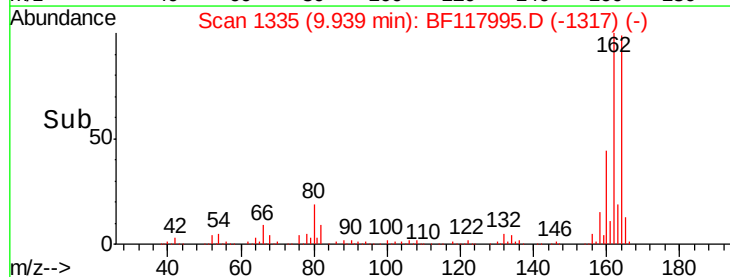
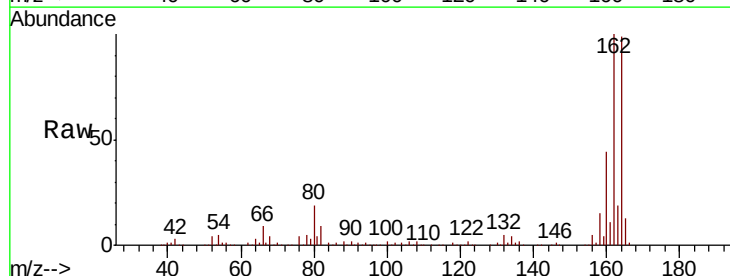
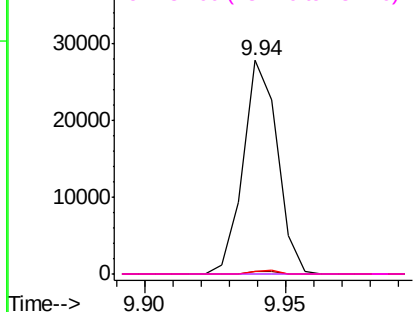
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

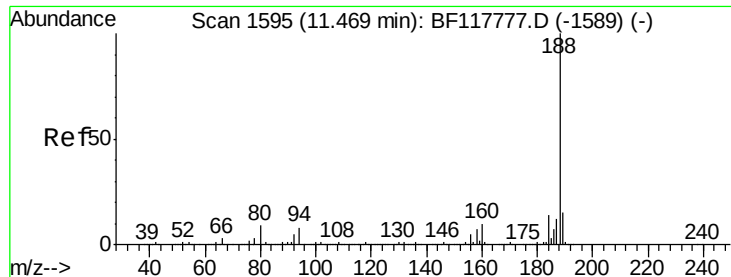


#57  
 2,4-Dinitrotoluene  
 Concen: 6.593 ng  
 RT: 9.94 min Scan# 1335  
 Delta R.T. -0.19 min  
 Lab File: BF117995.D  
 Acq: 26 Nov 2019 5:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 33.7  | 50.5# |
| 89      | 1.3   | 57.3  | 85.9# |
| 182     | 0.0   | 2.3   | 3.5#  |

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

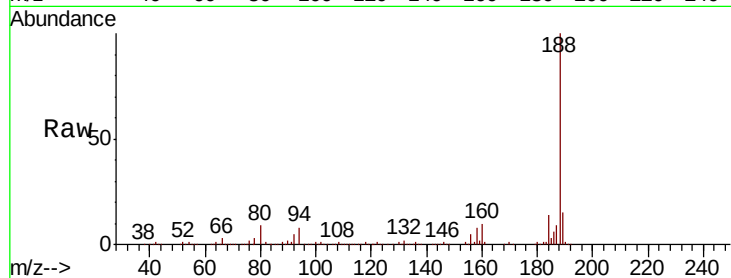




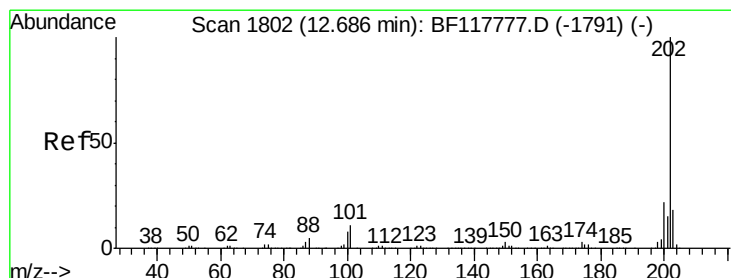
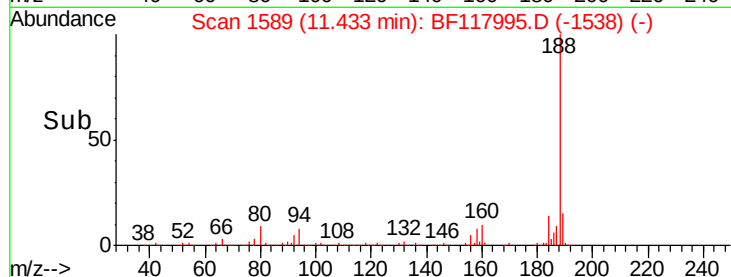
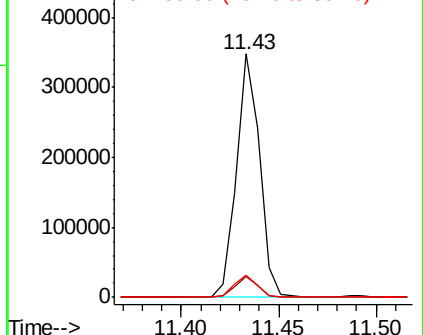
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.43 min Scan# 1589  
Delta R.T. 0.00 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 286558  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.6 10.0  
80 8.9 7.2 10.8

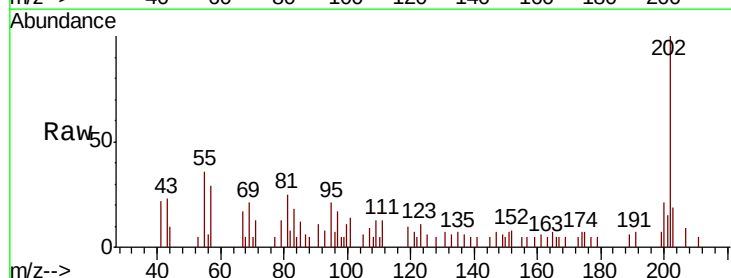


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

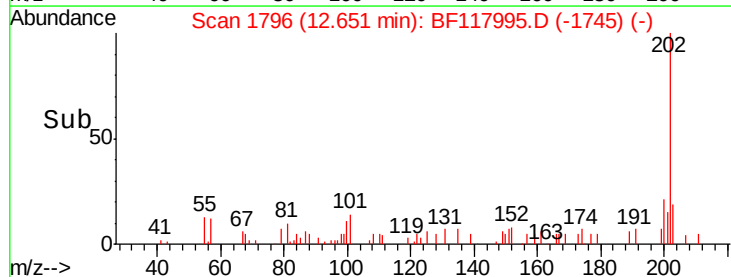
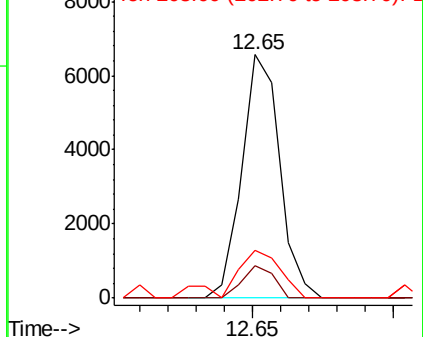


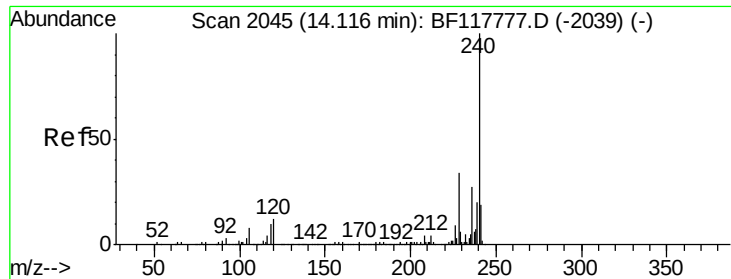
#75  
Fluoranthene  
Concen: Below Cal  
RT: 12.65 min Scan# 1796  
Delta R.T. 0.00 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Tgt Ion:202 Resp: 6105  
Ion Ratio Lower Upper  
202 100  
101 13.5 0.0 31.1  
203 19.4 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

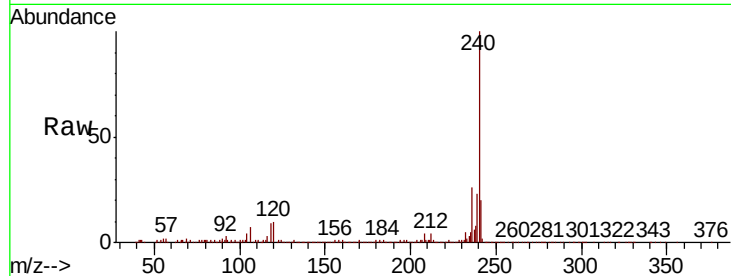




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.09 min Scan# 2040  
 Delta R.T. 0.00 min  
 Lab File: BF117995.D  
 Acq: 26 Nov 2019 5:01

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.2  | 9.5   | 14.3  |
| 236     | 26.3  | 21.3  | 31.9  |



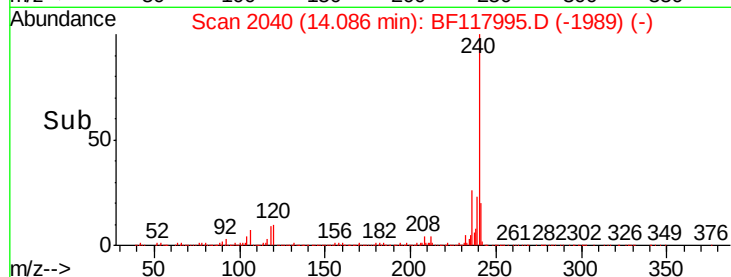
Abundance

Ion 240.00 (239.70 to 240.70): E

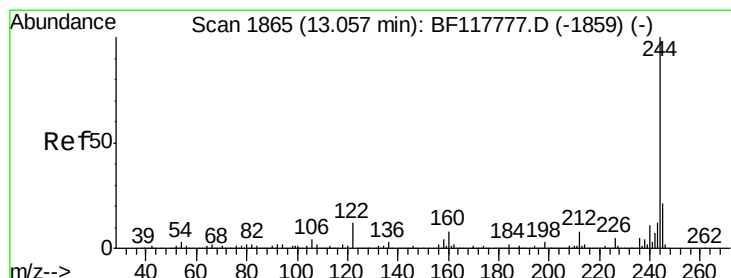
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.09

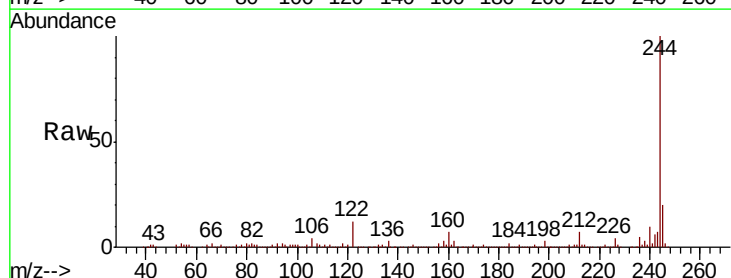


Time--> 14.00 14.10



#79  
 Terphenyl-d14  
 Concen: 26.946 ng  
 RT: 13.02 min Scan# 1859  
 Delta R.T. -0.01 min  
 Lab File: BF117995.D  
 Acq: 26 Nov 2019 5:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 6.3   | 9.5   |
| 122     | 11.5  | 9.4   | 14.2  |



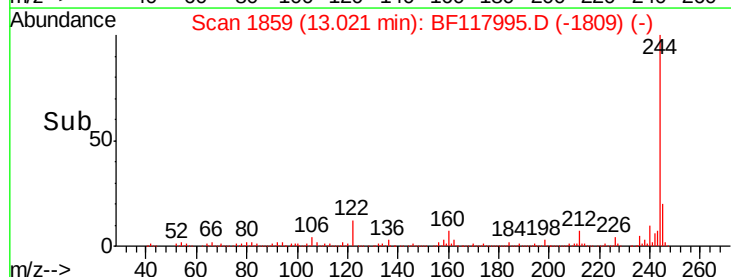
Abundance

Ion 244.00 (243.70 to 244.70): E

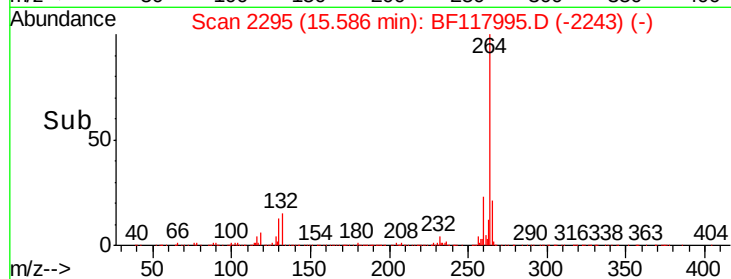
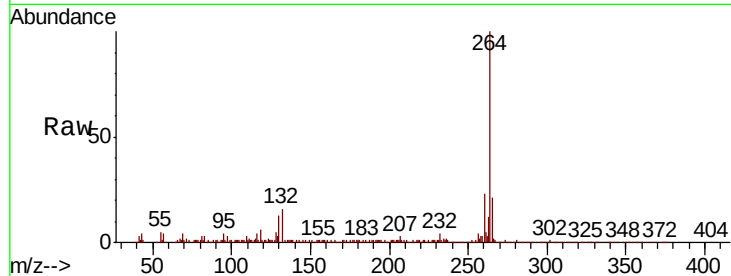
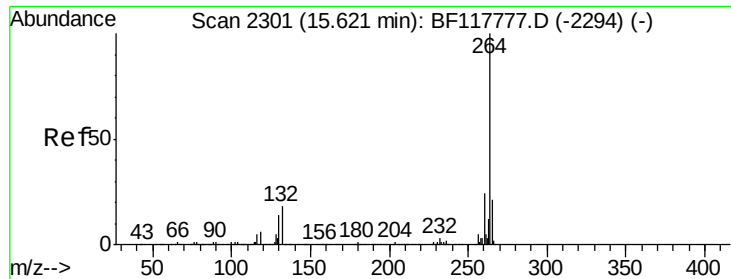
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

13.02



Time--> 12.95 13.00 13.05 13.10



#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.59 min Scan# 2295  
Delta R.T. 0.01 min  
Lab File: BF117995.D  
Acq: 26 Nov 2019 5:01

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 205264 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.7  | 19.4  | 29.0   |
| 265      | 21.3  | 17.1  | 25.7   |

