

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\  
 Data File : BF117887.D  
 Acq On : 20 Nov 2019 12:37  
 Operator : JU  
 Sample : K5908-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 21 03:05:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 18:36:07 2019  
 Response via : Initial Calibration

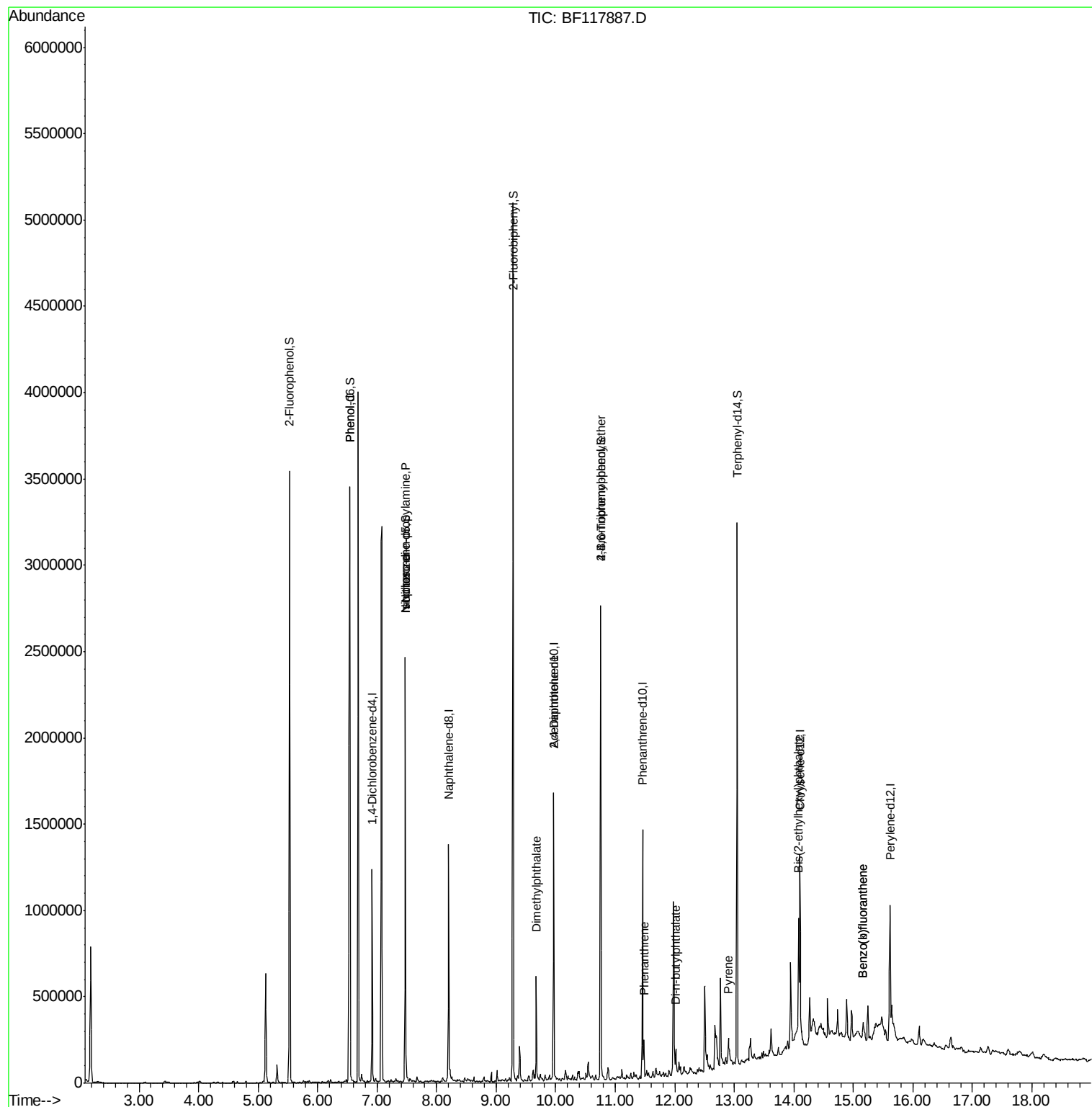
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-----------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.92  | 152  | 170606   | 20.00     | ng    | -0.01     |
| 21) Naphthalene-d8             | 8.20  | 136  | 652210   | 20.00     | ng    | -0.01     |
| 39) Acenaphthene-d10           | 9.96  | 164  | 313519   | 20.00     | ng    | -0.01     |
| 64) Phenanthrene-d10           | 11.46 | 188  | 467853   | 20.00     | ng    | -0.01     |
| 76) Chrysene-d12               | 14.10 | 240  | 297389   | 20.00     | ng    | -0.01     |
| 87) Perylene-d12               | 15.62 | 264  | 364875   | 20.00     | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |           |       |           |
| 5) 2-Fluorophenol              | 5.53  | 112  | 994790   | 103.21    | ng    | 0.00      |
| 7) Phenol-d6                   | 6.54  | 99   | 1258521  | 108.26    | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.47  | 82   | 772833   | 70.44     | ng    | -0.02     |
| 42) 2,4,6-Tribromophenol       | 10.76 | 330  | 313415   | 94.43     | ng    | -0.01     |
| 45) 2-Fluorobiphenyl           | 9.28  | 172  | 1425258  | 81.56     | ng    | -0.01     |
| 79) Terphenyl-d14              | 13.05 | 244  | 1078080  | 66.25     | ng    | -0.01     |
| Target Compounds               |       |      |          |           |       |           |
| 9) Benzaldehyde                | 6.46  | 77   | 946      | Below Cal |       | Qvalue 89 |
| 10) Phenol                     | 6.55  | 94   | 72264    | 5.982     | ng    | 89        |
| 19) n-Nitroso-di-n-propylamine | 7.47  | 70   | 107331   | 14.966    | ng    | # 75      |
| 25) Isophorone                 | 7.47  | 82   | 765306   | 38.058    | ng    | # 62      |
| 50) Dimethylphthalate          | 9.67  | 163  | 219354   | 9.977     | ng    | 98        |
| 57) 2,4-Dinitrotoluene         | 9.96  | 165  | 42280    | 6.917     | ng    | # 25      |
| 67) 4-Bromophenyl-phenylether  | 10.76 | 248  | 20216    | 4.005     | ng    | # 1       |
| 71) Phenanthrene               | 11.48 | 178  | 75871    | 3.226     | ng    | 95        |
| 74) Di-n-butylphthalate        | 12.02 | 149  | 52756    | 2.079     | ng    | 99        |
| 75) Fluoranthene               | 12.67 | 202  | 74408    | Below Cal |       | 98        |
| 78) Pyrene                     | 12.90 | 202  | 61415    | 2.555     | ng    | 99        |
| 84) Bis(2-ethylhexyl)phthalate | 14.08 | 149  | 186693   | 14.918    | ng    | 96        |
| 88) Benzo(b)fluoranthene       | 15.16 | 252  | 58940    | 2.486     | ng    | # 93      |
| 89) Benzo(k)fluoranthene       | 15.16 | 252  | 58940    | 2.639     | ng    | # 91      |

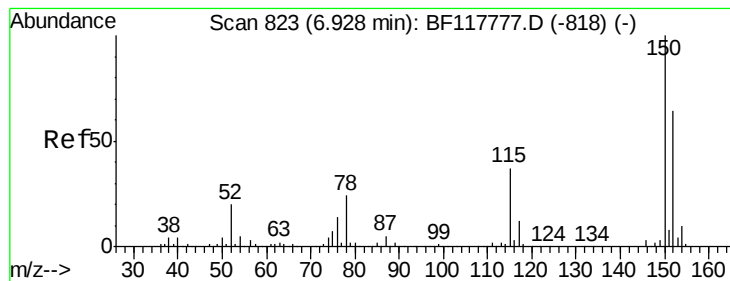
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Nov 21 03:05:50 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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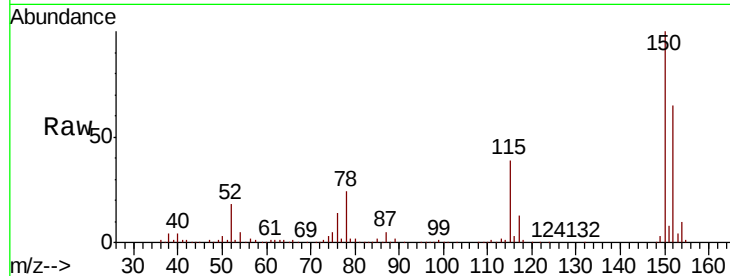


#1

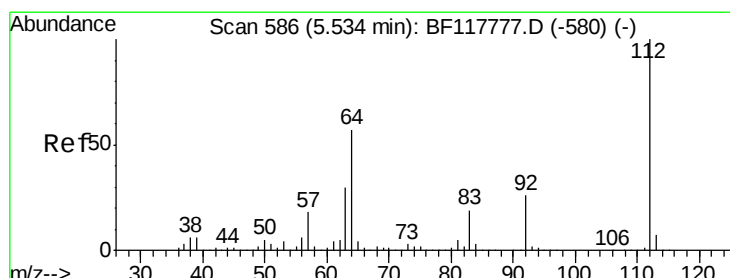
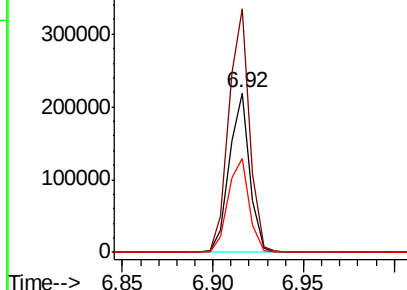
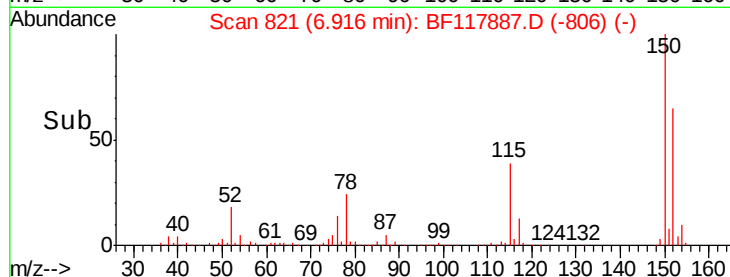
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.9 | 125.3 | 187.9 |
| 115     | 59.2  | 47.0  | 70.4  |



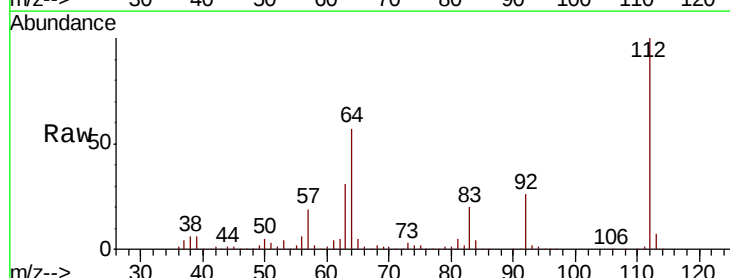
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



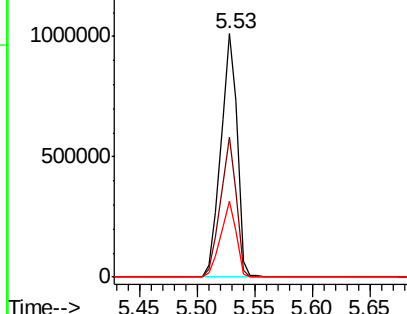
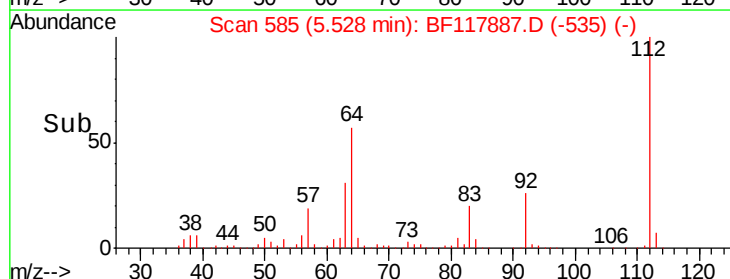
#5

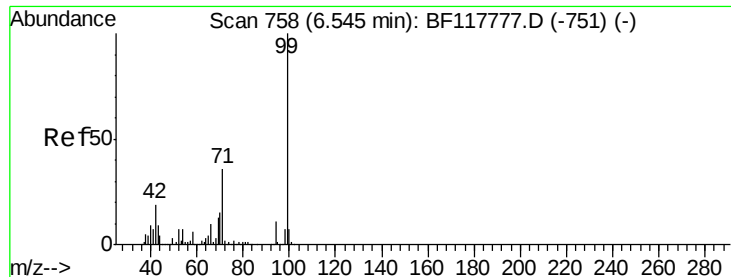
2-Fluorophenol  
Concen: 103.213 ng  
RT: 5.53 min Scan# 585  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 45.6  | 68.4  |
| 63      | 31.0  | 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: 108.258 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

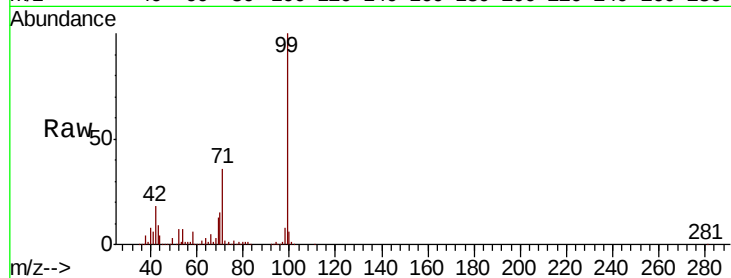
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1258521

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.8  | 14.9  | 22.3  |
| 71  | 35.7  | 28.6  | 43.0  |

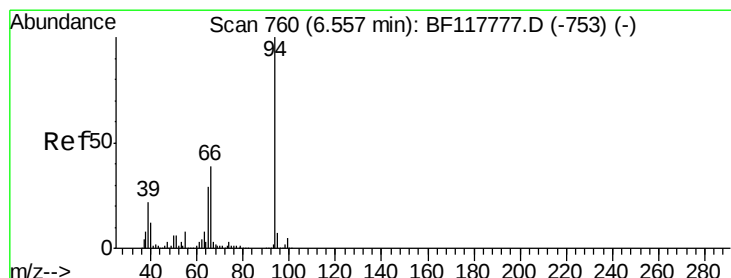
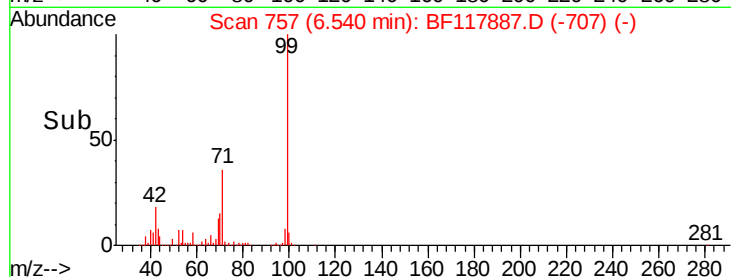
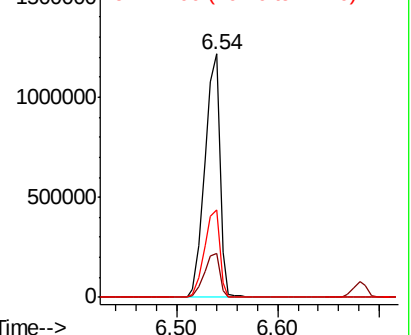


Abundance

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: 5.982 ng

RT: 6.55 min Scan# 758

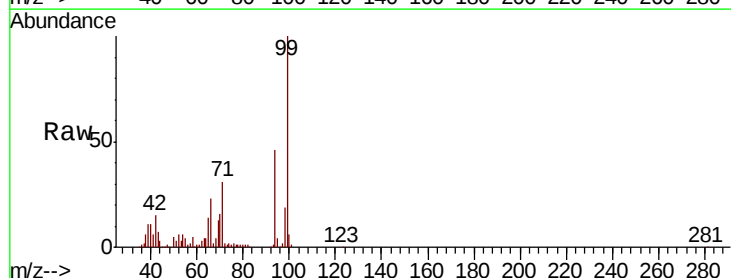
Delta R.T. -0.01 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

Tgt Ion: 94 Resp: 72264

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 30.5  | 8.9   | 48.9  |
| 66  | 49.4  | 18.7  | 58.7  |

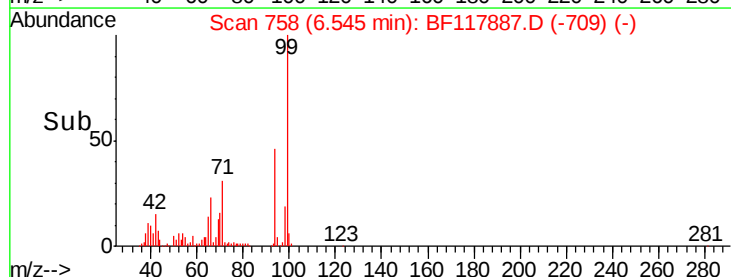
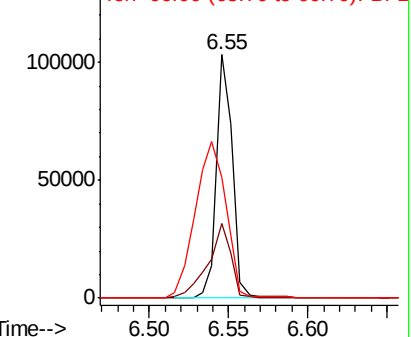


Abundance

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

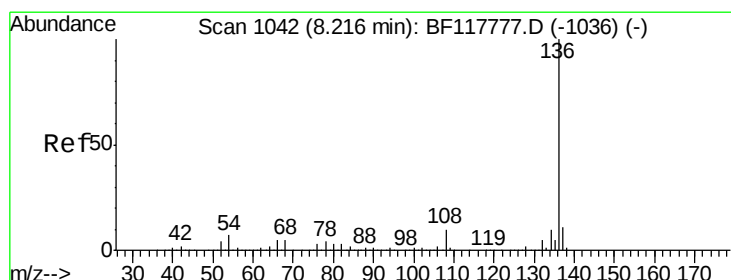
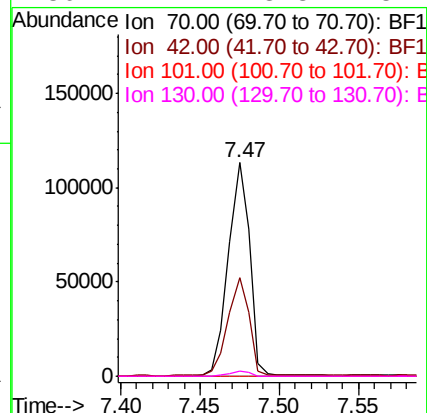
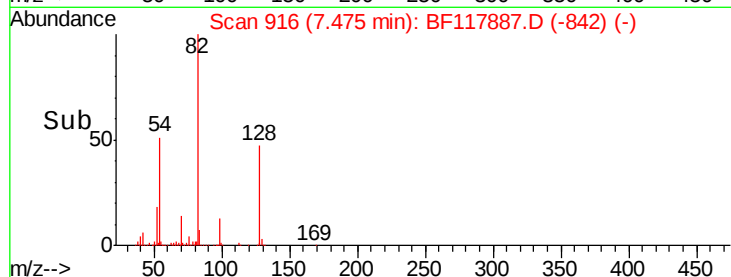
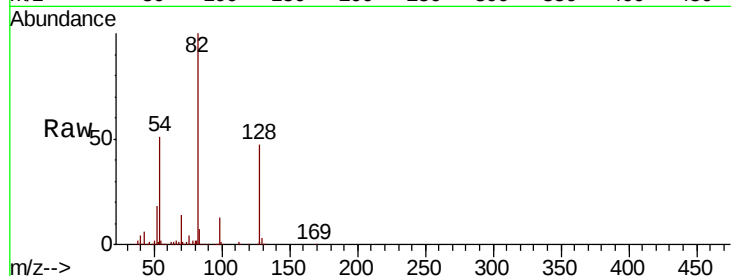




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.966 ng  
RT: 7.47 min Scan# 916  
Delta R.T. 0.14 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

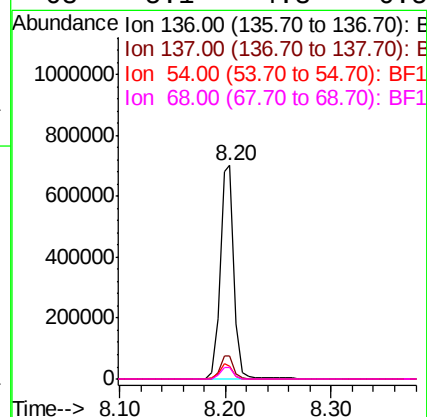
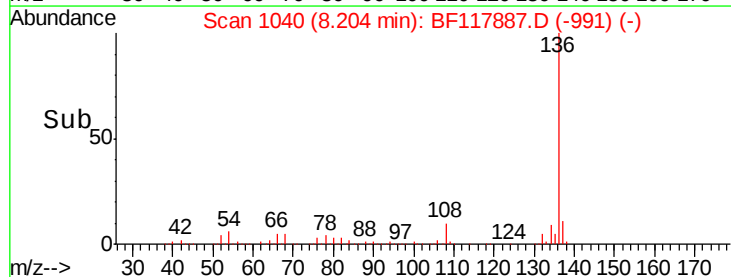
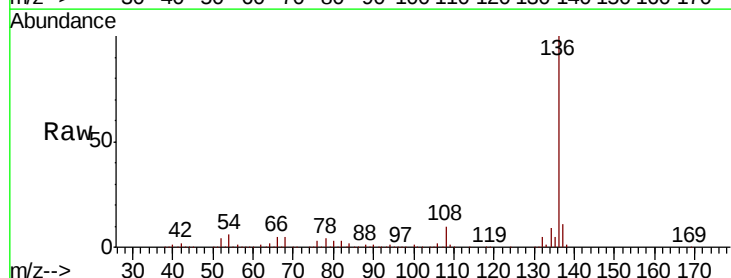
Instrument :  
BNA\_F  
ClientSampleId :

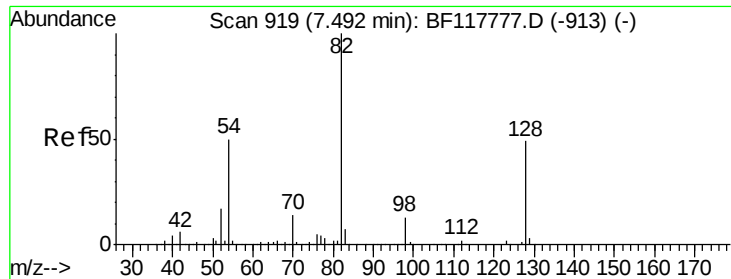
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 46.5  | 47.4  | 71.2# |
| 101     | 0.0   | 8.4   | 12.6# |
| 130     | 2.2   | 18.8  | 28.2# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.6  | 9.0   | 13.4  |
| 54      | 6.2   | 5.4   | 8.2   |
| 68      | 5.1   | 4.3   | 6.5   |

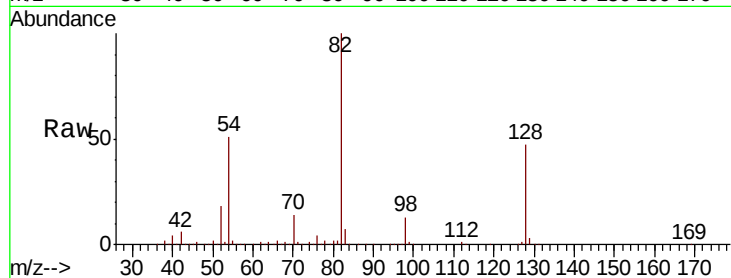




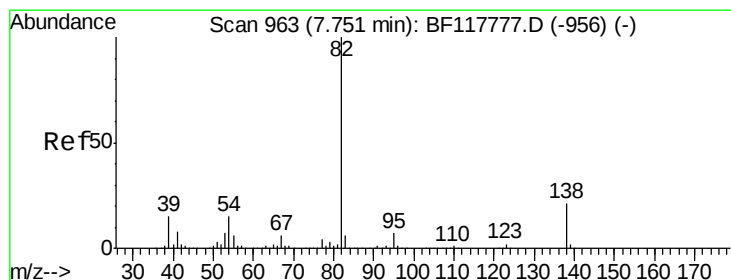
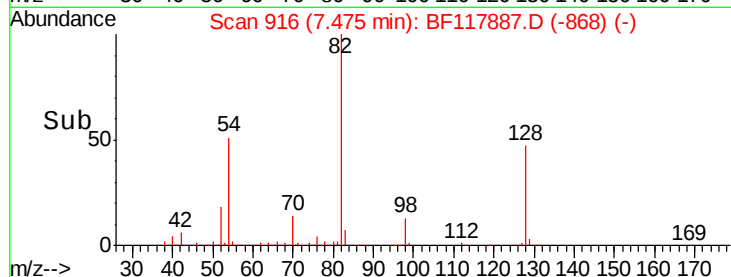
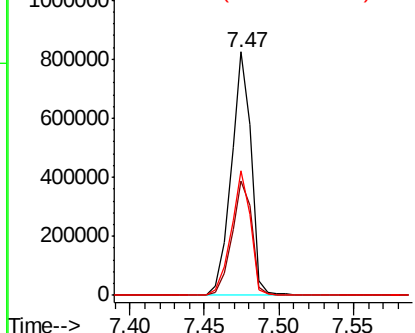
#23  
Nitrobenzene-d5  
Concen: 70.440 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 772833 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.0  | 38.9  | 58.3   |
| 54        | 51.3  | 39.8  | 59.6   |

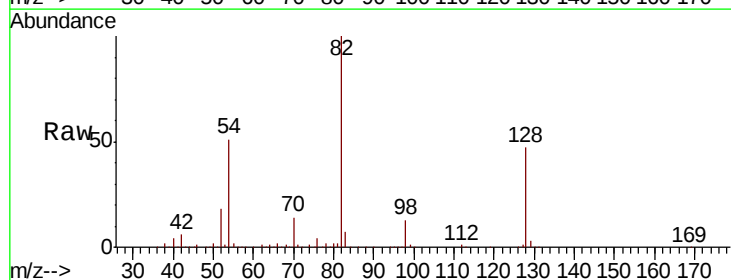


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

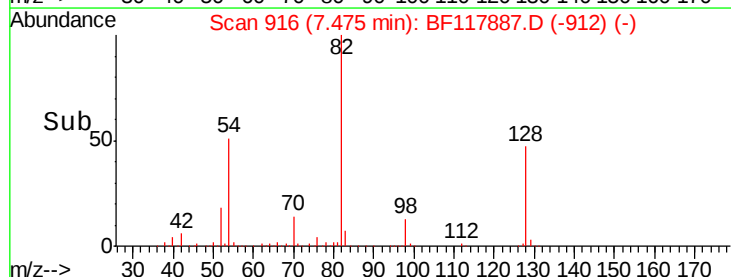
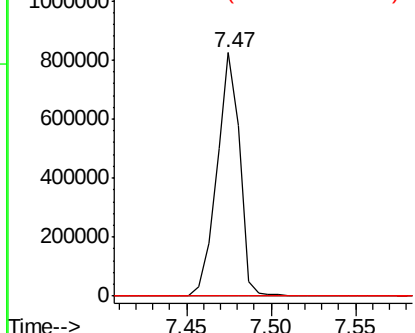


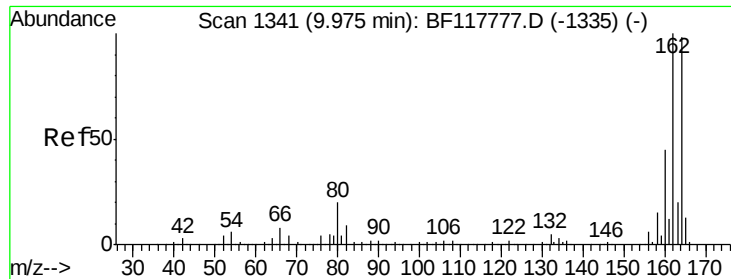
#25  
Isophorone  
Concen: 38.058 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.28 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

| Tgt Ion   | 82    | Resp  | 765306 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.1   | 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

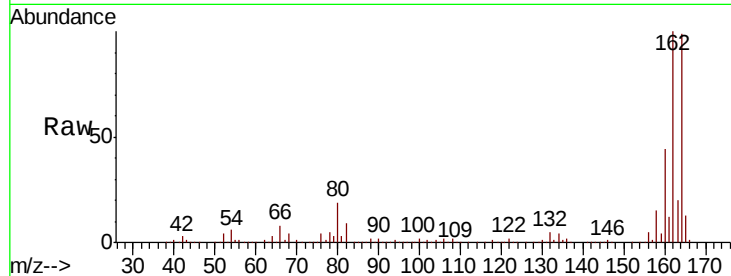




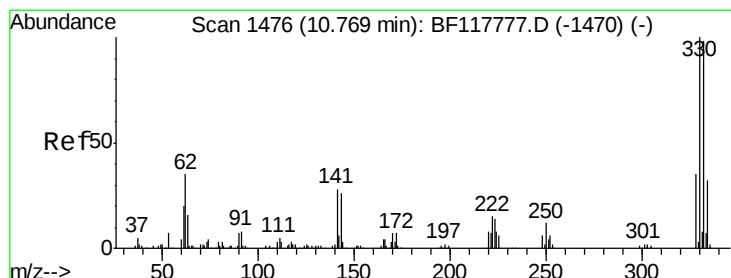
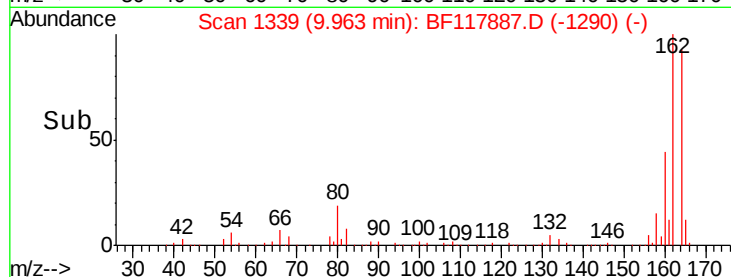
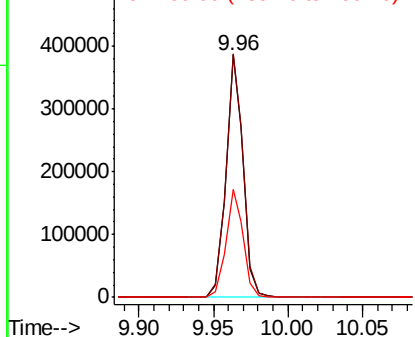
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.96 min Scan# 1339  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 313519  
Ion Ratio Lower Upper  
164 100  
162 100.6 81.3 121.9  
160 44.4 36.6 55.0

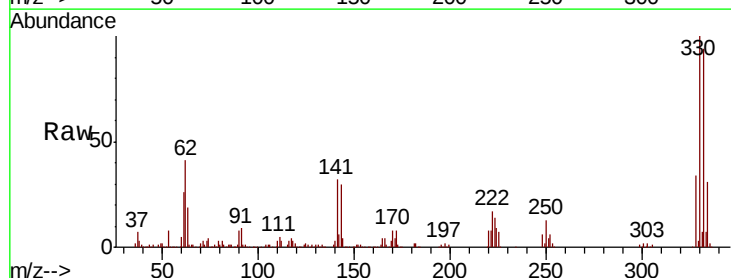


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

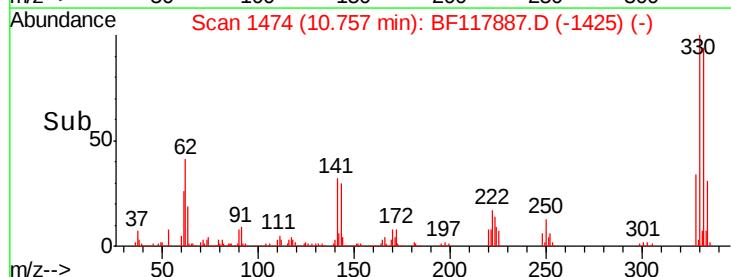
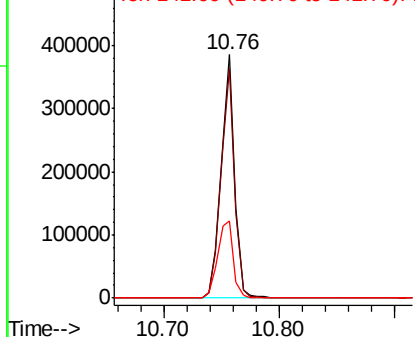


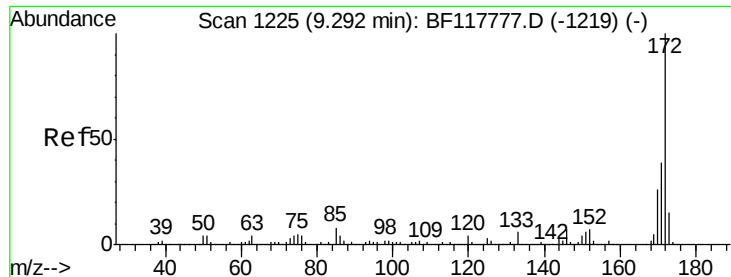
#42  
2,4,6-Tribromophenol  
Concen: 94.425 ng  
RT: 10.76 min Scan# 1474  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Tgt Ion:330 Resp: 313415  
Ion Ratio Lower Upper  
330 100  
332 95.4 76.7 115.1  
141 37.1 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

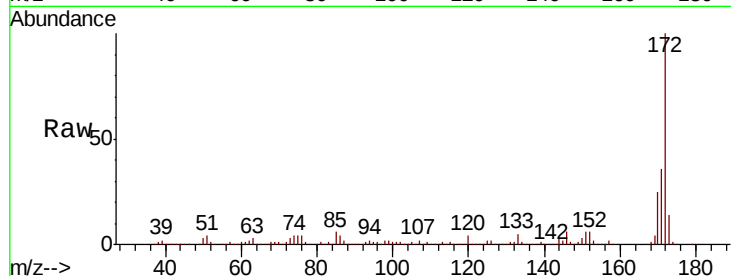




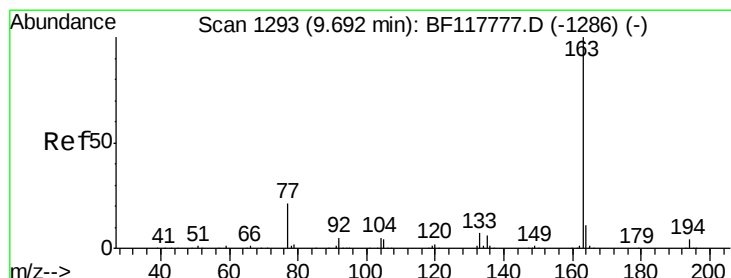
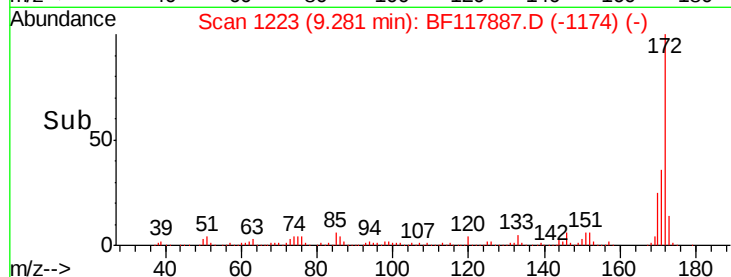
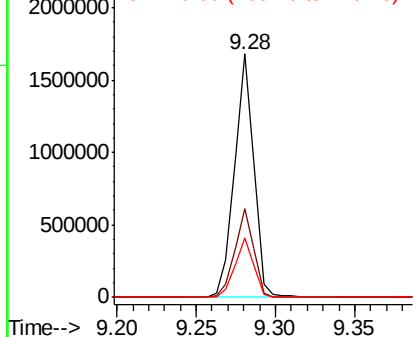
#45  
2-Fluorobiphenyl  
Concen: 81.557 ng  
RT: 9.28 min Scan# 1223  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1425258  
Ion Ratio Lower Upper  
172 100  
171 36.4 30.9 46.3  
170 24.6 21.0 31.4

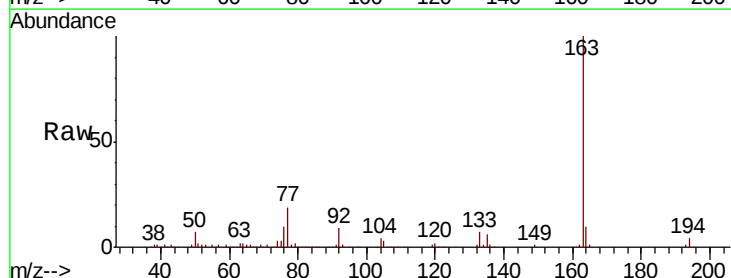


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

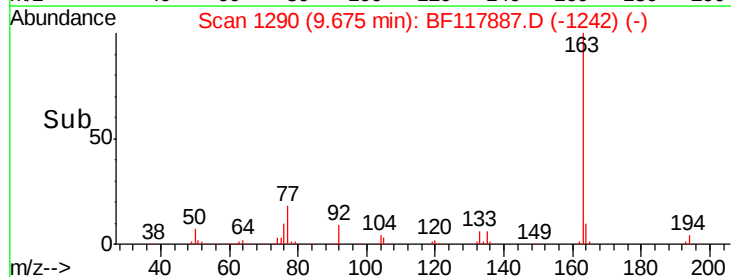
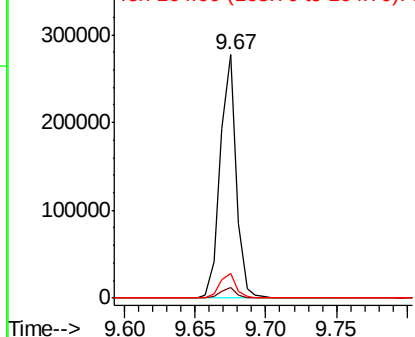


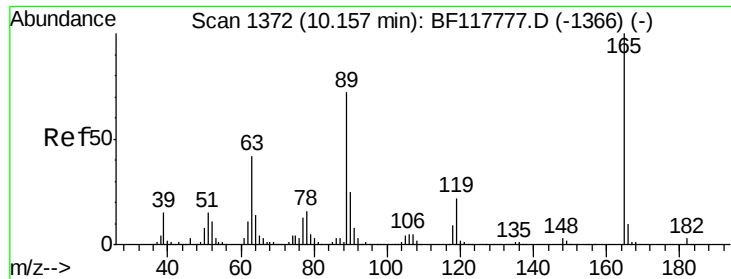
#50  
Dimethylphthalate  
Concen: 9.977 ng  
RT: 9.67 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Tgt Ion:163 Resp: 219354  
Ion Ratio Lower Upper  
163 100  
194 4.3 3.3 4.9  
164 10.1 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

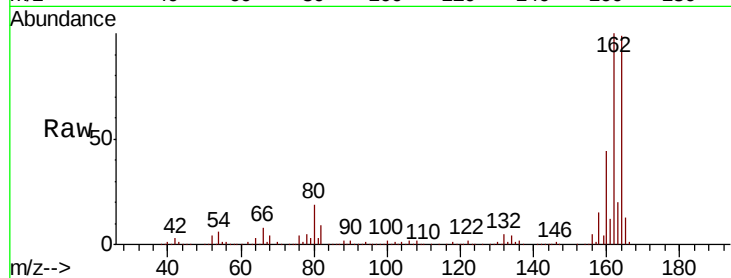




#57  
2,4-Dinitrotoluene  
Concen: 6.917 ng  
RT: 9.96 min Scan# 1339  
Delta R.T. -0.19 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 33.7  | 50.5# |
| 89      | 1.7   | 57.3  | 85.9# |
| 182     | 0.0   | 2.3   | 3.5#  |



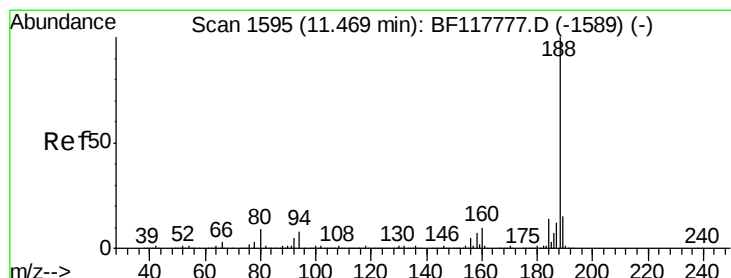
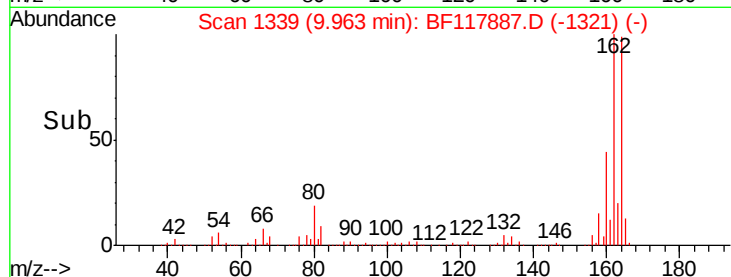
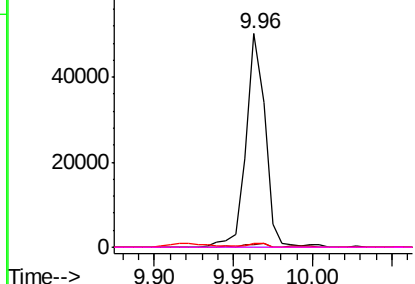
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

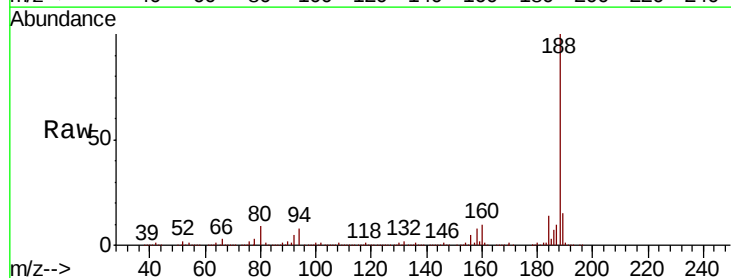
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.46 min Scan# 1593  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.0   | 6.6   | 10.0  |
| 80      | 8.7   | 7.2   | 10.8  |

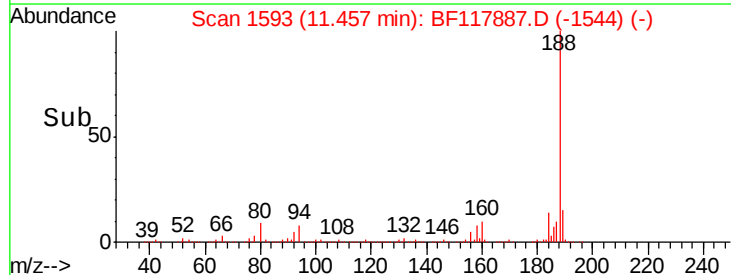
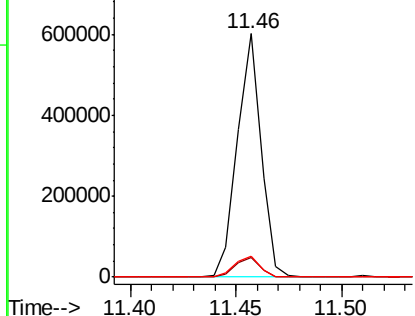


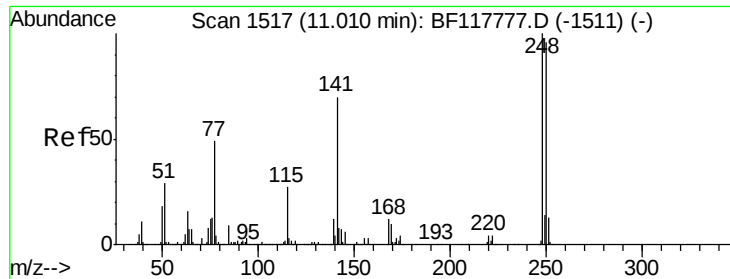
Abundance

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

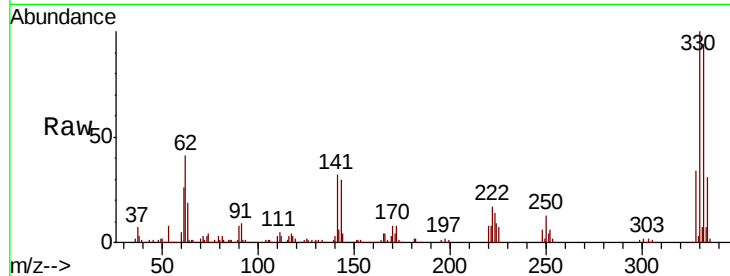




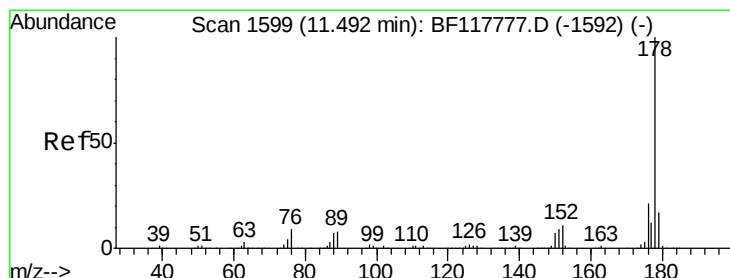
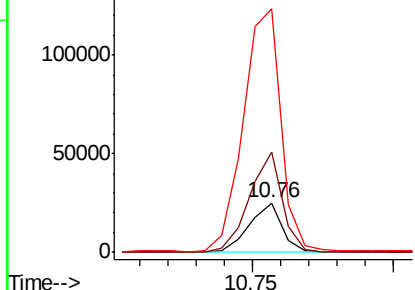
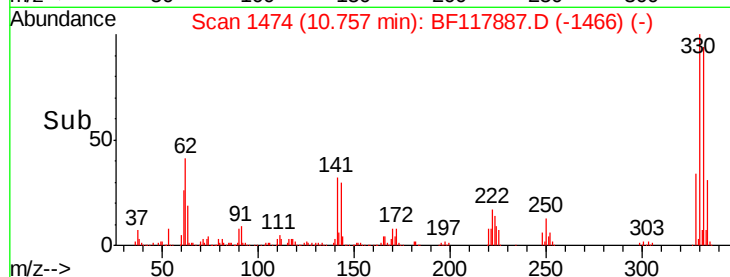
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.005 ng  
 RT: 10.76 min Scan# 1474  
 Delta R.T. -0.25 min  
 Lab File: BF117887.D  
 Acq: 20 Nov 2019 12:37

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 20216  
 Ion Ratio Lower Upper  
 248 100  
 250 202.5 76.6 115.0#  
 141 494.3 55.9 83.9#

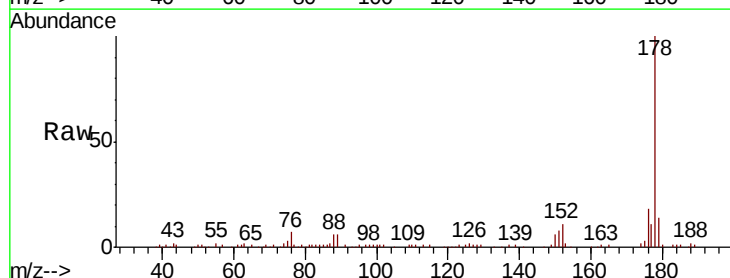


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

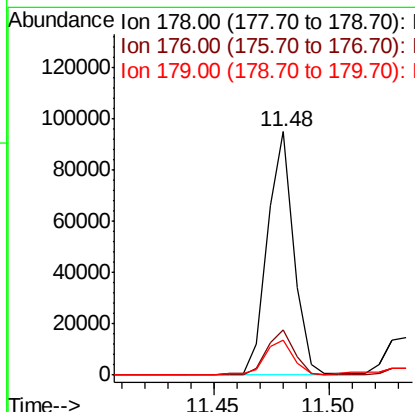
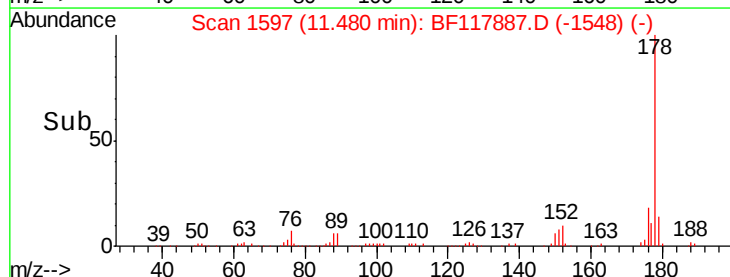


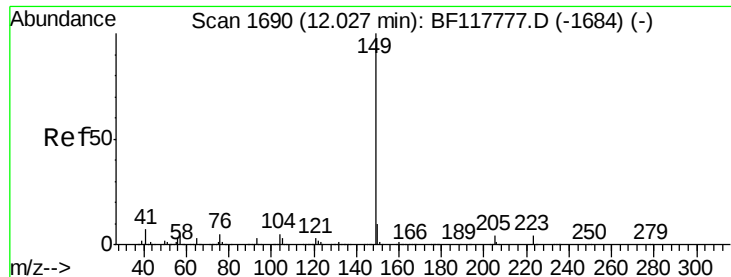
#71  
 Phenanthrene  
 Concen: 3.226 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. -0.01 min  
 Lab File: BF117887.D  
 Acq: 20 Nov 2019 12:37

Tgt Ion:178 Resp: 75871  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 16.6 25.0  
 179 14.1 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#74

Di-n-butylphthalate

Concen: 2.079 ng

RT: 12.02 min Scan# 1688

Delta R.T. -0.01 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

Instrument :

BNA\_F

ClientSampleId :

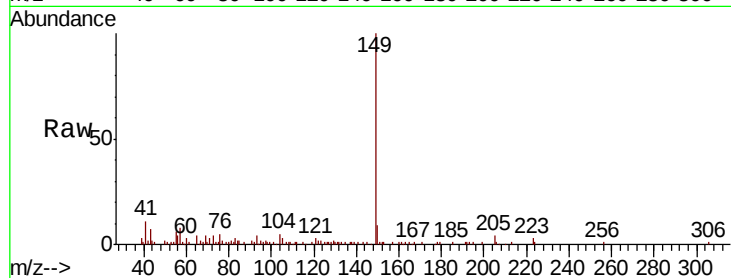
Tot Ion:149 Resp: 52756

Ion Ratio Lower Upper

149 100

150 9.3 7.9 11.9

104 5.0 4.2 6.4

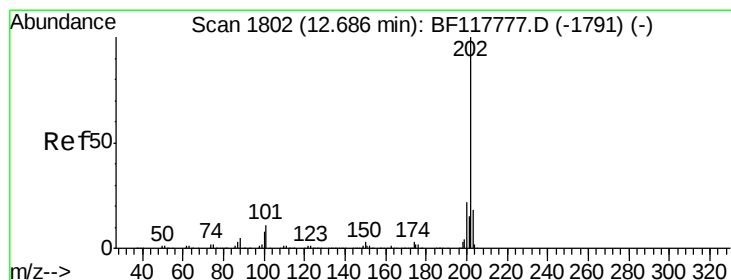
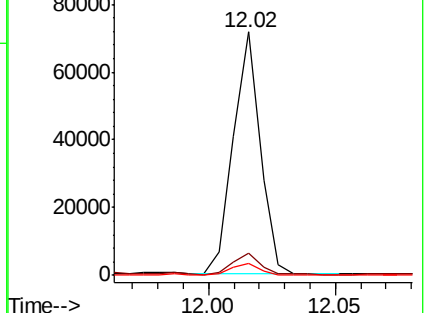
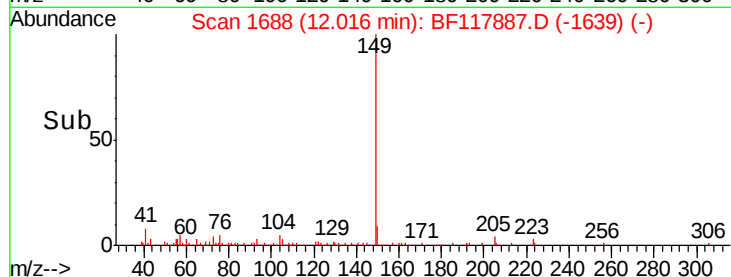


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Fluoranthene

Concen: Below Cal

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

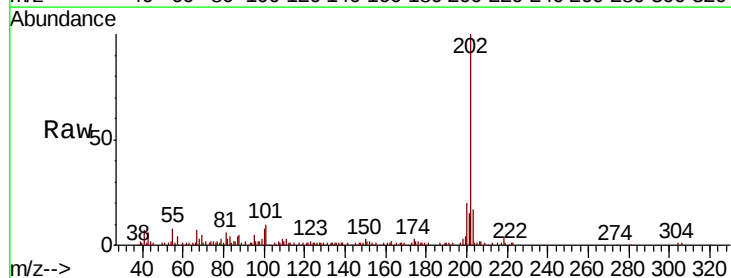
Tgt Ion:202 Resp: 74408

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.1

203 17.4 0.0 38.2

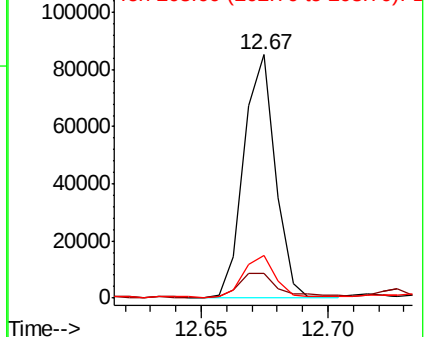
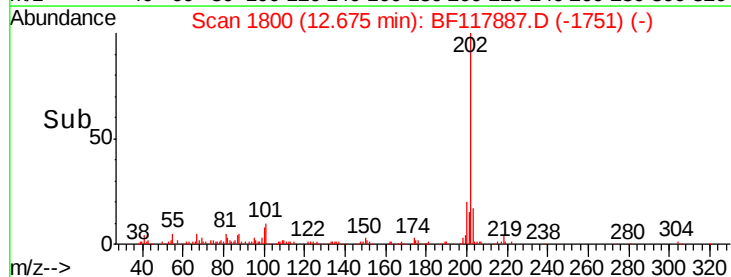


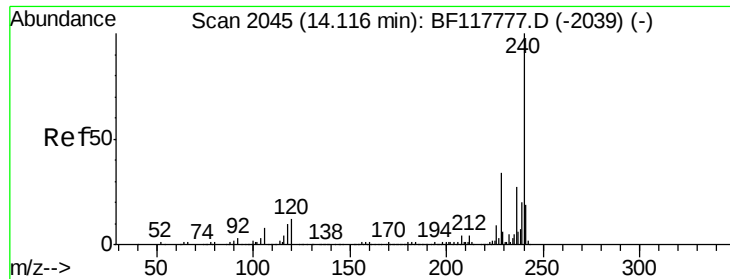
Abundance

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

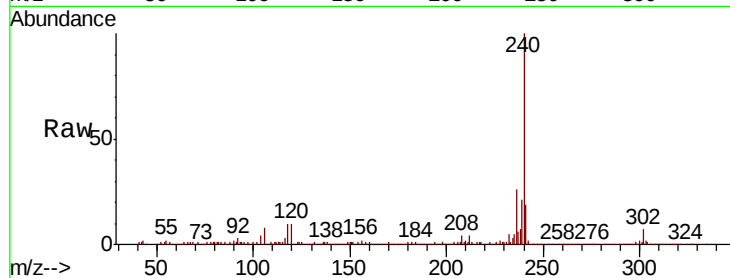




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.10 min Scan# 2043  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.4  | 9.5   | 14.3  |
| 236     | 26.3  | 21.3  | 31.9  |

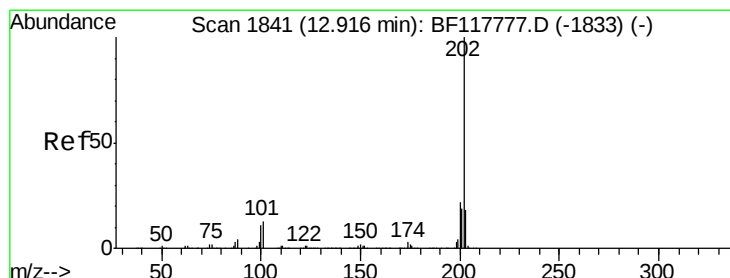
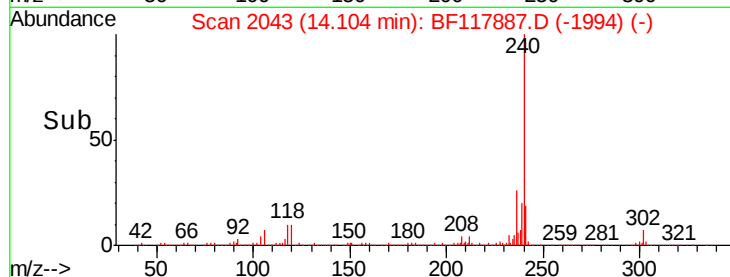
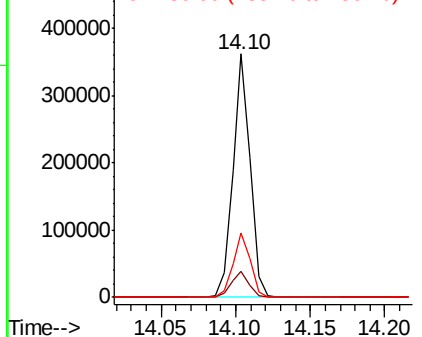


Abundance

Ion 240.00 (239.70 to 240.70): E

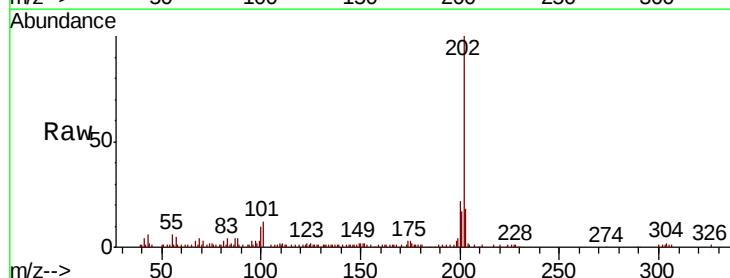
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78  
Pyrene  
Concen: 2.555 ng  
RT: 12.90 min Scan# 1839  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.7  | 17.8  | 26.8  |
| 203     | 17.6  | 14.6  | 22.0  |

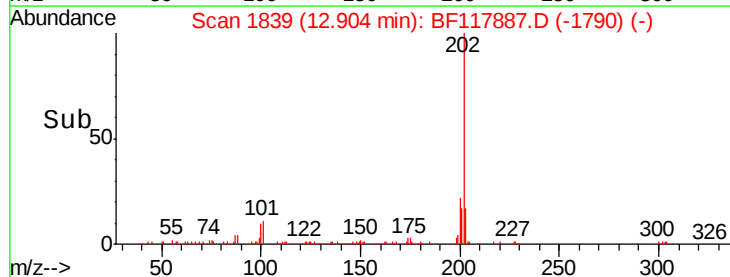
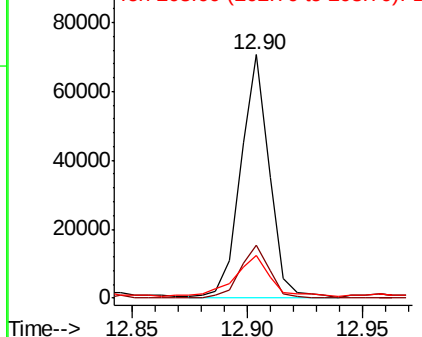


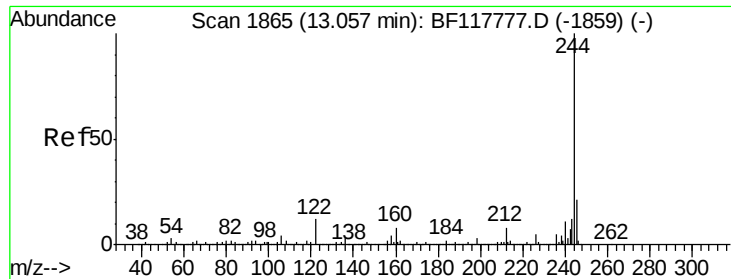
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 66.254 ng

RT: 13.05 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

Instrument :

BNA\_F

ClientSampleId :

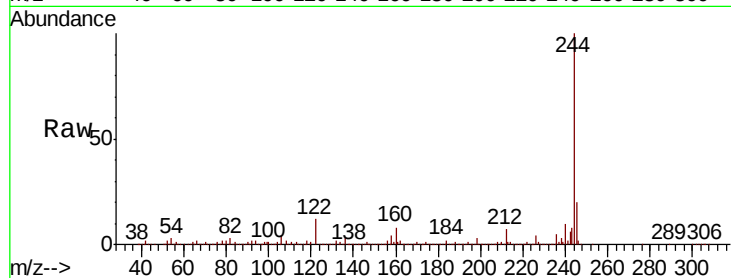
Tot Ion:244 Resp: 1078080

Ion Ratio Lower Upper

244 100

212 7.5 6.3 9.5

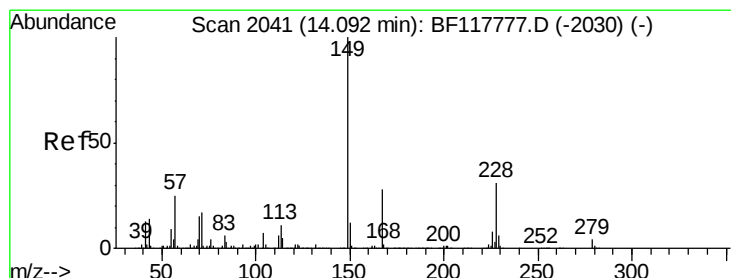
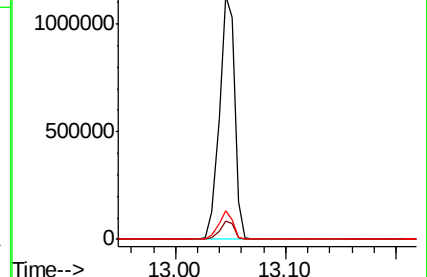
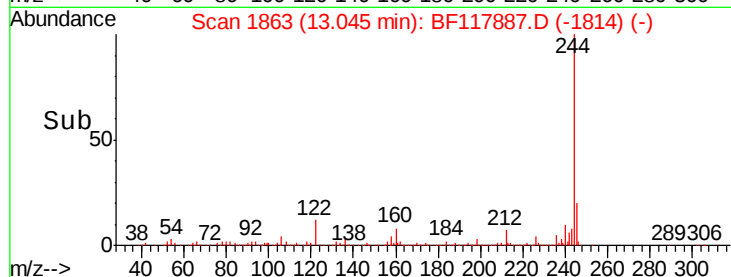
122 11.6 9.4 14.2



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 14.918 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

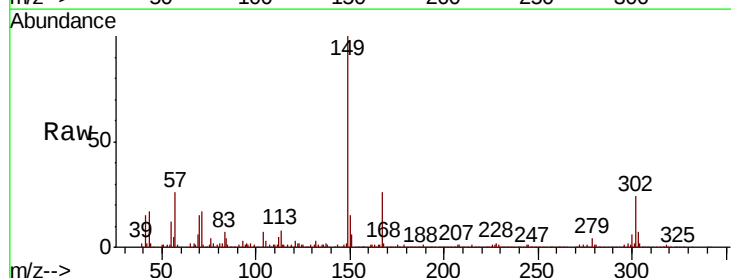
Tgt Ion:149 Resp: 186693

Ion Ratio Lower Upper

149 100

167 25.5 22.2 33.2

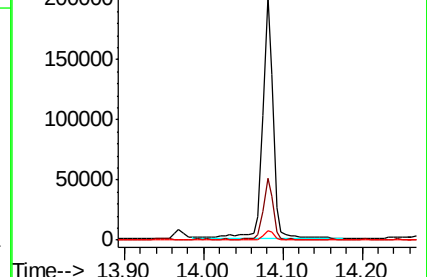
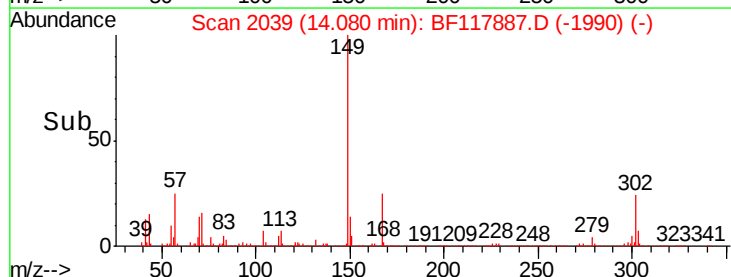
279 3.8 3.4 5.2

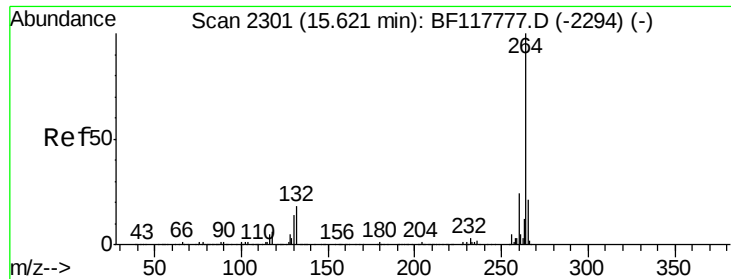


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

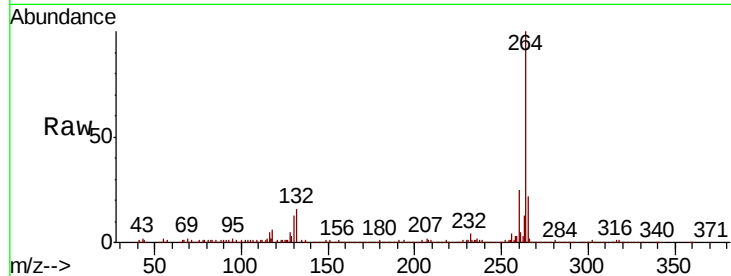




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.62 min Scan# 2300  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.4  | 29.0  |
| 265     | 21.8  | 17.1  | 25.7  |

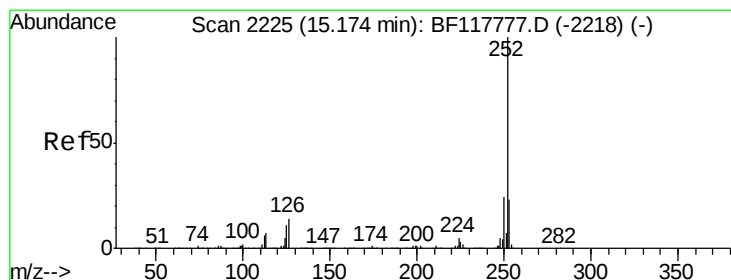
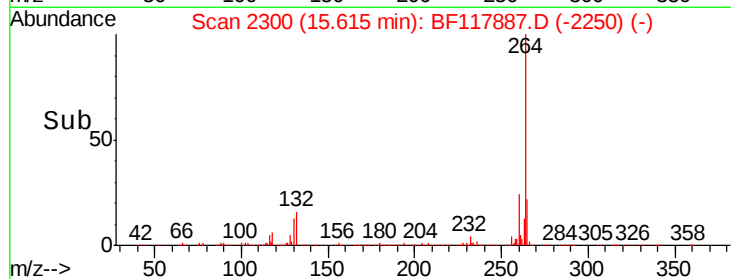
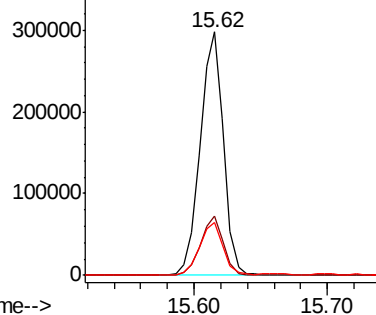


Abundance

Ion 264.00 (263.70 to 264.70): E

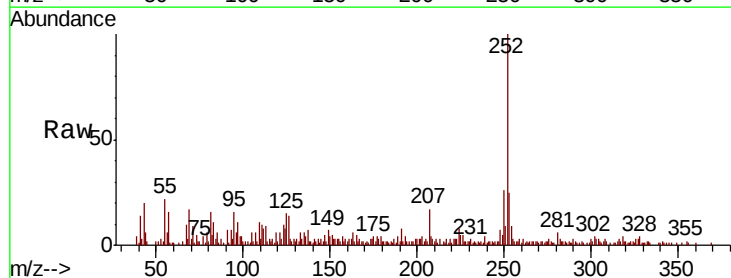
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88  
Benzo(b)fluoranthene  
Concen: 2.486 ng  
RT: 15.16 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF117887.D  
Acq: 20 Nov 2019 12:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 18.0  | 27.0  |
| 125     | 14.5  | 8.6   | 13.0  |

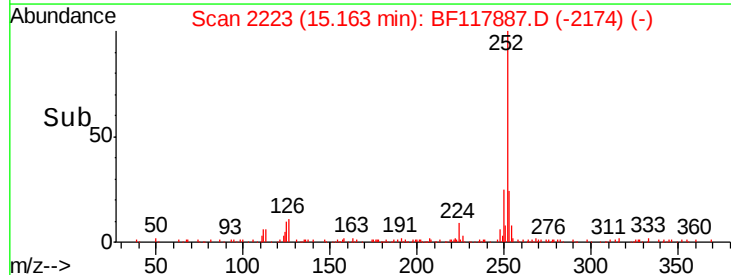
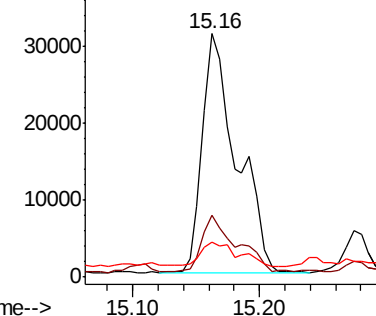


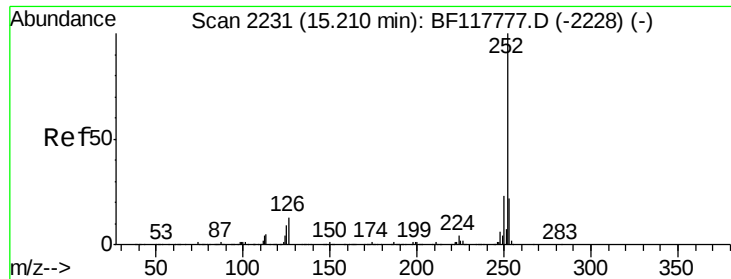
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 2.639 ng

RT: 15.16 min Scan# 2223

Delta R.T. -0.05 min

Lab File: BF117887.D

Acq: 20 Nov 2019 12:37

Instrument :

BNA\_F

ClientSampleId :

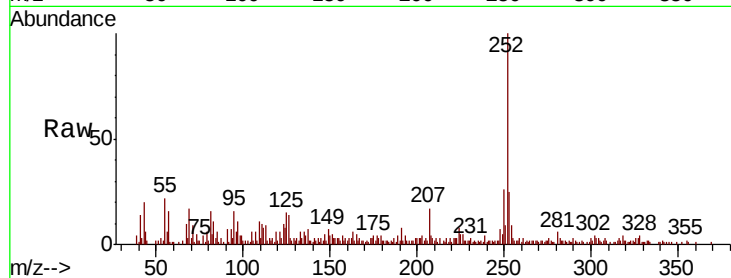
Tot Ion:252 Resp: 58940

Ion Ratio Lower Upper

252 100

253 25.2 17.5 26.3

125 14.5 7.9 11.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

