

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
 Data File : BF118032.D  
 Acq On : 27 Nov 2019 6:54  
 Operator : JU  
 Sample : K6014-17  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 27 07:51:18 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

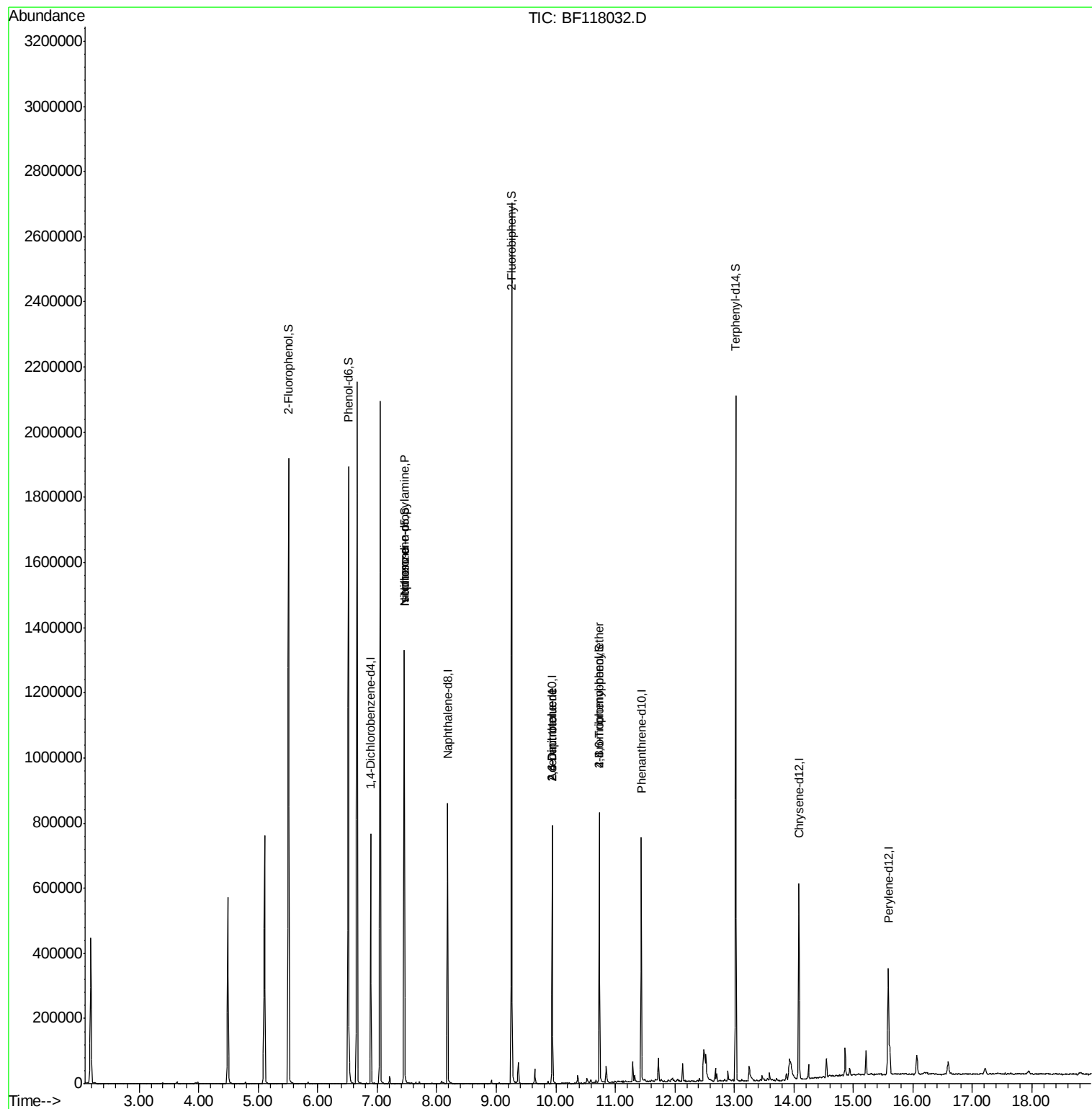
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 103707   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.18  | 136  | 373918   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.94  | 164  | 160927   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.43 | 188  | 250305   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 14.09 | 240  | 197803   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.59 | 264  | 156438   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 503324   | 85.91     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.52  | 99   | 714969   | 101.17    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 442010   | 70.27     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.73 | 330  | 100451   | 58.96     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.26  | 172  | 827267   | 92.22     | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.03 | 244  | 765766   | 70.75     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.66  | 77   | 13497    | Below Cal |       | 82       |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 57980    | 13.299 ng | #     | 72       |
| 25) Isophorone                 | 7.46  | 82   | 442006   | 38.340 ng | #     | 62       |
| 51) 2,6-Dinitrotoluene         | 9.94  | 165  | 20186    | 8.185 ng  | #     | 22       |
| 57) 2,4-Dinitrotoluene         | 9.94  | 165  | 20186    | 6.434 ng  | #     | 24       |
| 67) 4-Bromophenyl-phenylether  | 10.73 | 248  | 6372     | 2.359 ng  | #     | 1        |
| 75) Fluoranthene               | 12.65 | 202  | 520      | Below Cal |       | 63       |

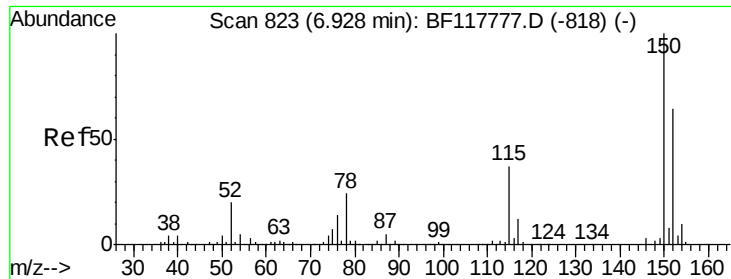
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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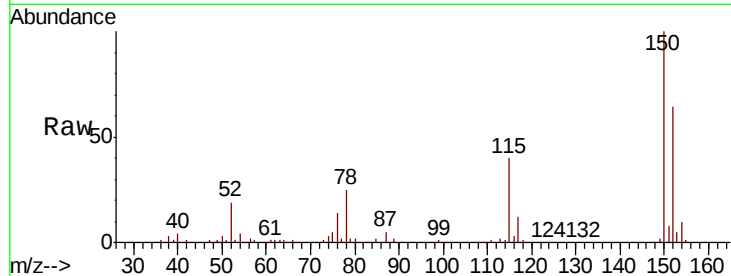




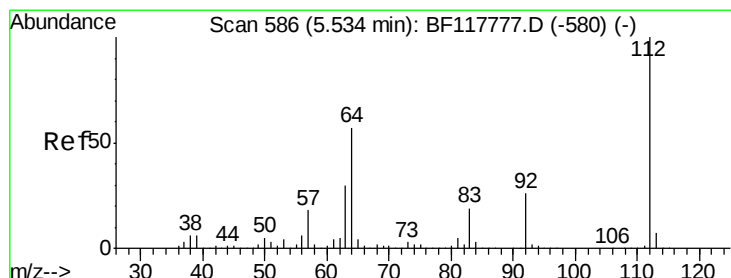
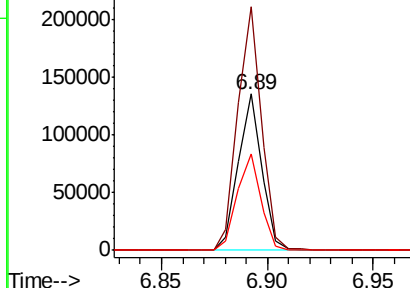
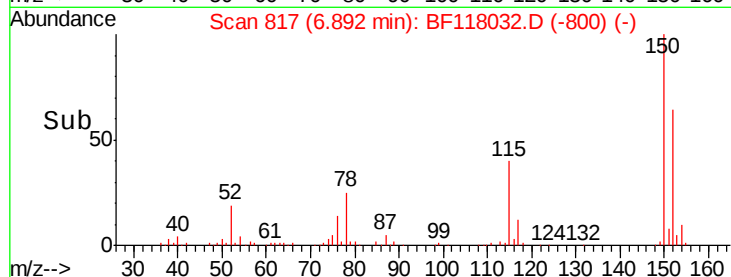
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.89 min Scan# 817  
 Delta R.T. -0.00 min  
 Lab File: BF118032.D  
 Acq: 27 Nov 2019 6:54

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 103707  
 Ion Ratio Lower Upper  
 152 100  
 150 155.6 125.3 187.9  
 115 61.9 47.0 70.4

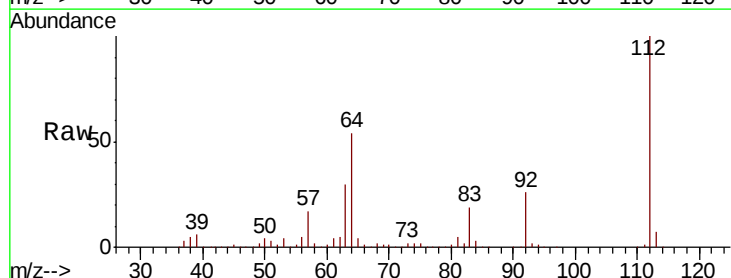


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

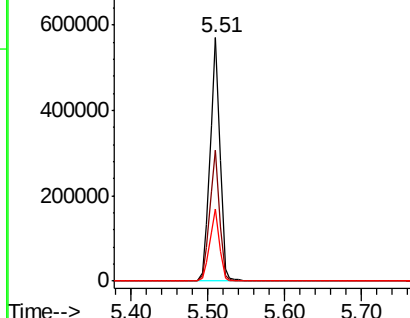
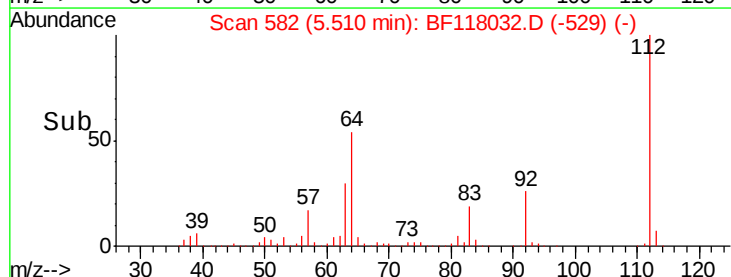


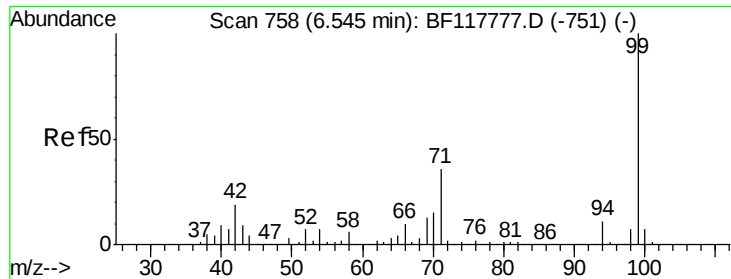
#5  
 2-Fluorophenol  
 Concen: 85.909 ng  
 RT: 5.51 min Scan# 582  
 Delta R.T. 0.01 min  
 Lab File: BF118032.D  
 Acq: 27 Nov 2019 6:54

Tgt Ion:112 Resp: 503324  
 Ion Ratio Lower Upper  
 112 100  
 64 53.9 45.6 68.4  
 63 29.6 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: 101.175 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

Instrument :

BNA\_F

ClientSampled :

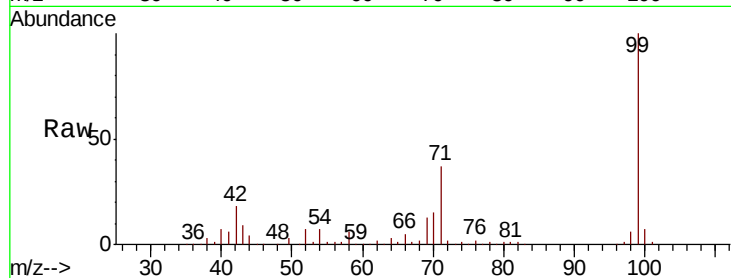
Tot Ion: 99 Resp: 714969

Ion Ratio Lower Upper

99 100

42 17.8 14.9 22.3

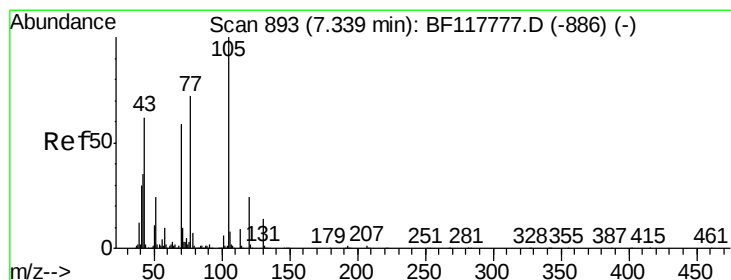
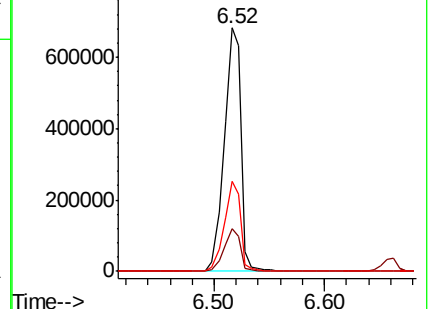
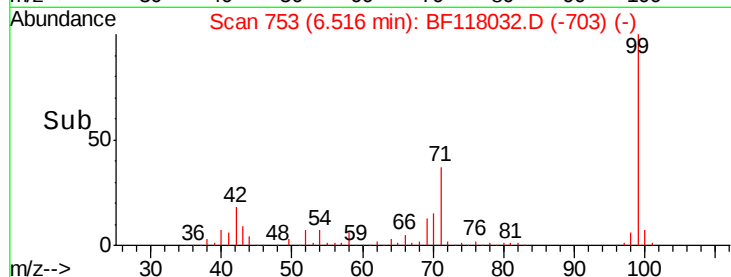
71 37.0 28.6 43.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 13.299 ng

RT: 7.46 min Scan# 913

Delta R.T. 0.15 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

Tgt Ion: 70 Resp: 57980

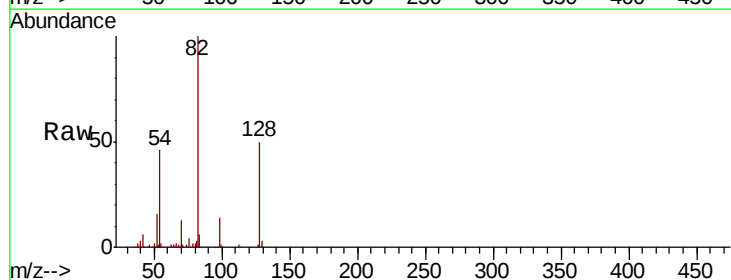
Ion Ratio Lower Upper

70 100

42 42.9 47.4 71.2#

101 0.0 8.4 12.6#

130 2.1 18.8 28.2#

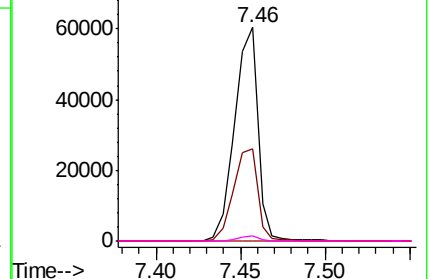
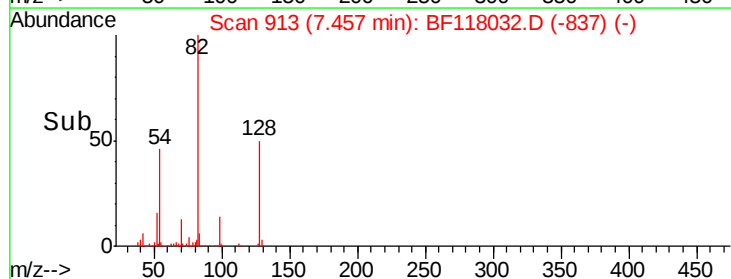


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

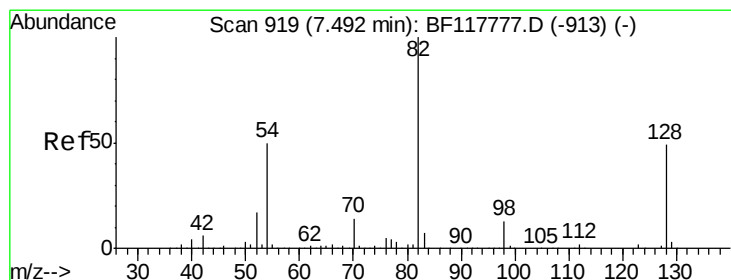
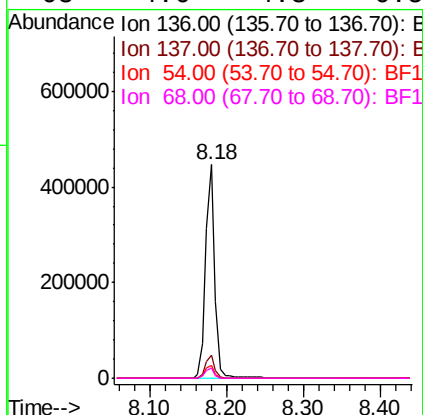
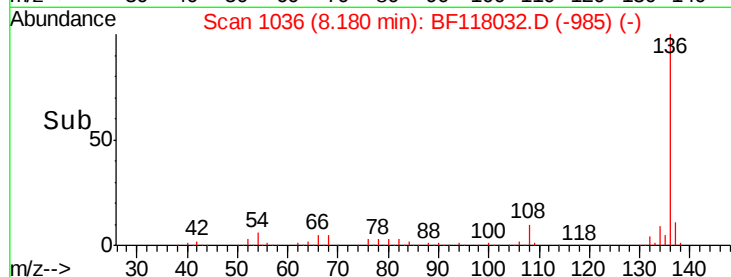
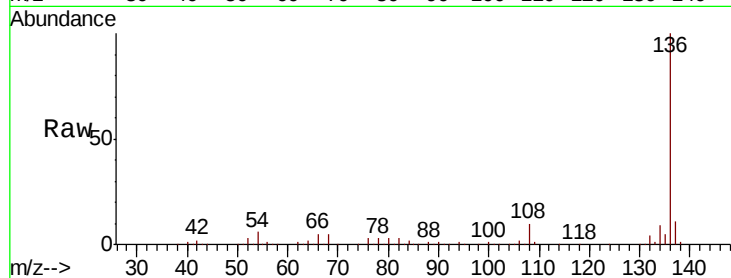




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: BF118032.D  
Acq: 27 Nov 2019 6:54

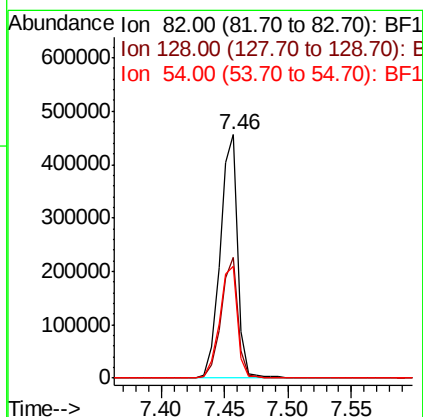
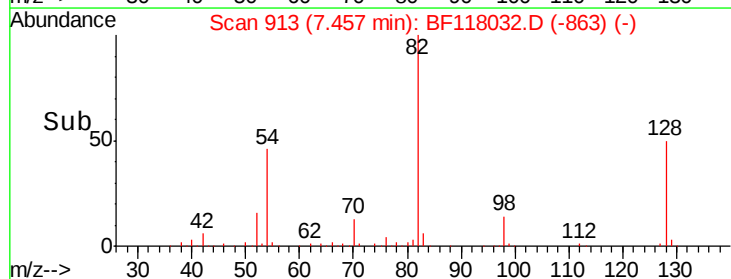
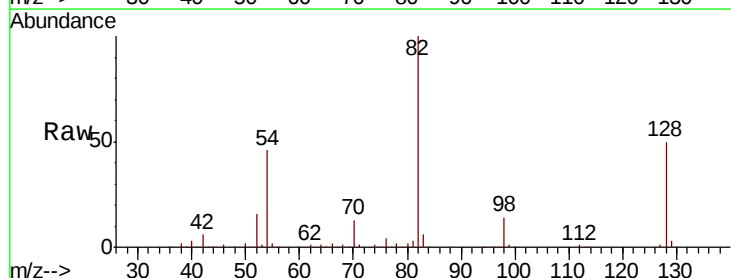
Instrument :  
BNA\_F  
ClientSampleId :

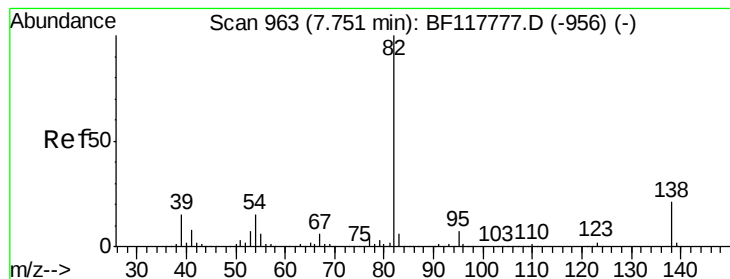
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 373918   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.8  | 9.0 13.4 |
| 54          | 6.2   | 5.4 8.2  |
| 68          | 4.6   | 4.3 6.5  |



#23  
Nitrobenzene-d5  
Concen: 70.271 ng  
RT: 7.46 min Scan# 913  
Delta R.T. -0.01 min  
Lab File: BF118032.D  
Acq: 27 Nov 2019 6:54

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 442010    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 49.7  | 38.9 58.3 |
| 54          | 45.9  | 39.8 59.6 |





#25

Isophorone

Concen: 38.340 ng

RT: 7.46 min Scan# 913

Delta R.T. -0.26 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

Instrument :

BNA\_F

ClientSampleId :

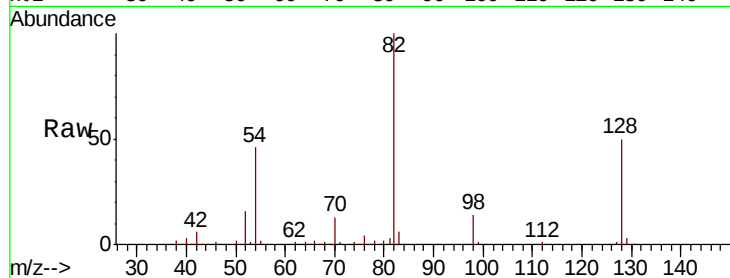
Tot Ion: 82 Resp: 442006

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

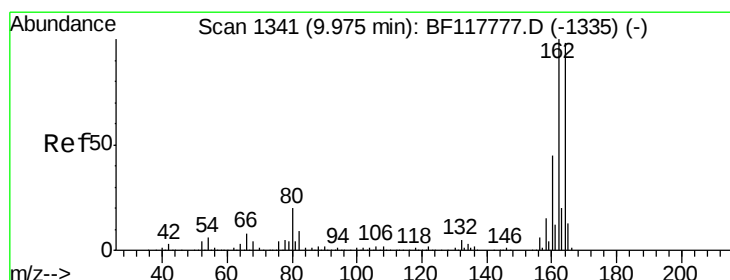
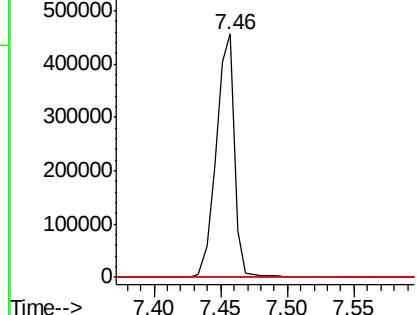
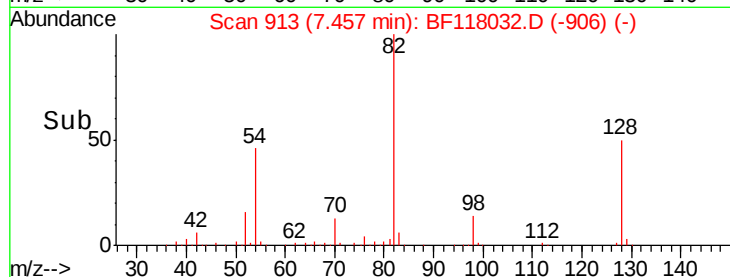
138 0.0 16.5 24.7#



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: BF118032.D

Acq: 27 Nov 2019 6:54

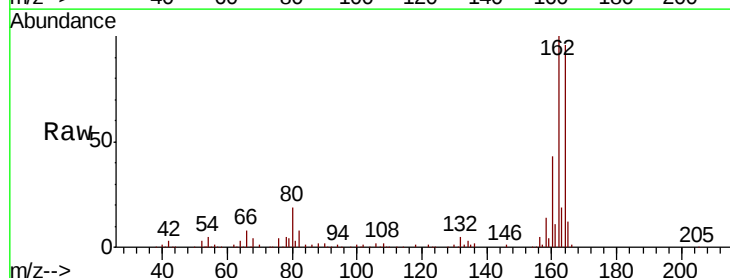
Tgt Ion: 164 Resp: 160927

Ion Ratio Lower Upper

164 100

162 103.8 81.3 121.9

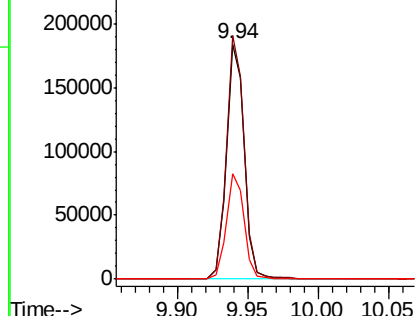
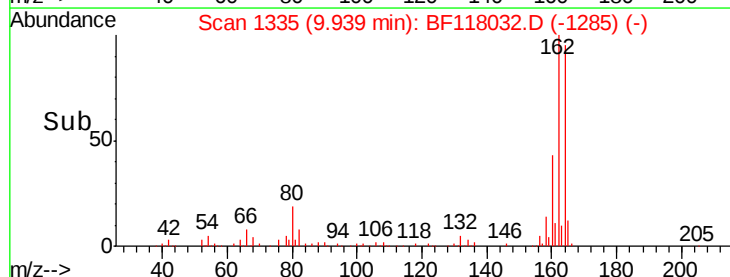
160 44.9 36.6 55.0



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: 58.960 ng

RT: 10.73 min Scan# 1470

Delta R.T. -0.01 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

Instrument :

BNA\_F

ClientSampleId :

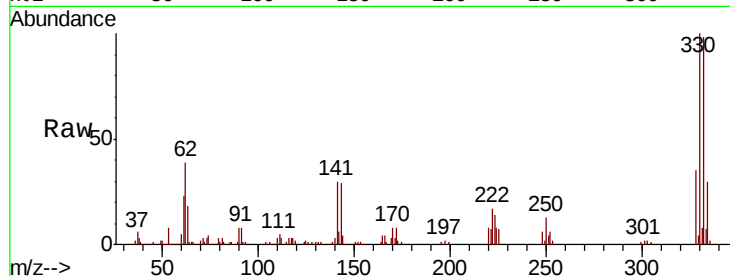
Tot Ion:330 Resp: 100451

Ion Ratio Lower Upper

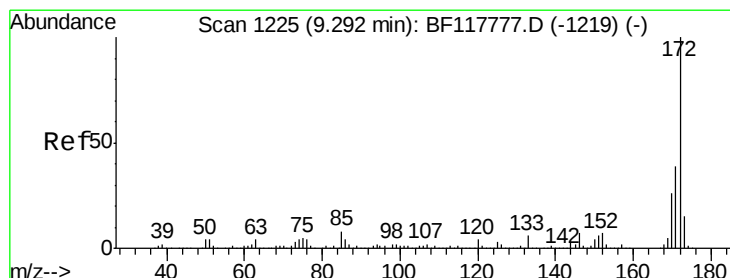
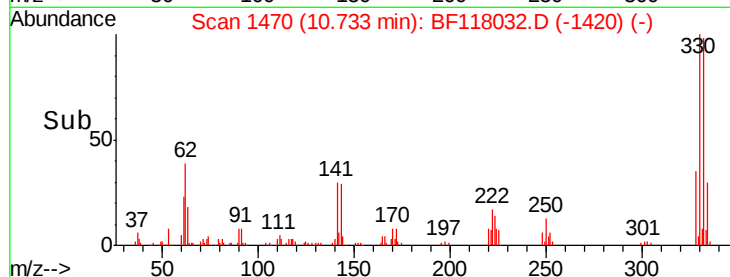
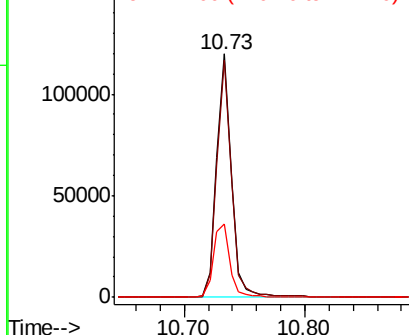
330 100

332 97.0 76.7 115.1

141 33.8 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: 92.225 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.01 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

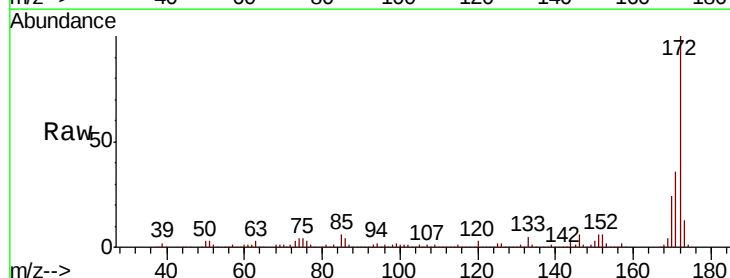
Tgt Ion:172 Resp: 827267

Ion Ratio Lower Upper

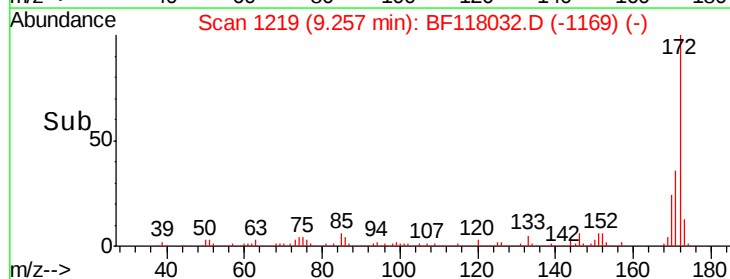
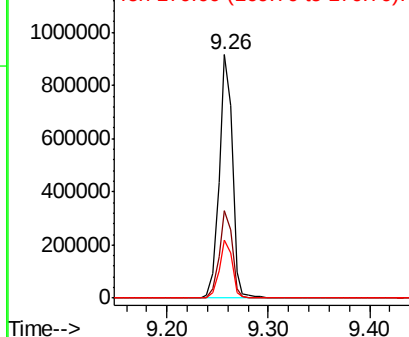
172 100

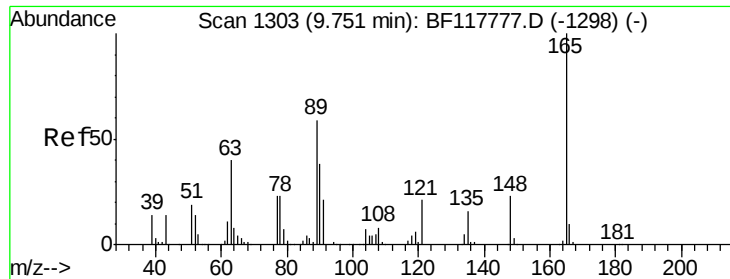
171 35.7 30.9 46.3

170 23.7 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





#51

2,6-Dinitrotoluene

Concen: 8.185 ng

RT: 9.94 min Scan# 1335

Delta R.T. 0.21 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

Instrument :

BNA\_F

ClientSampleId :

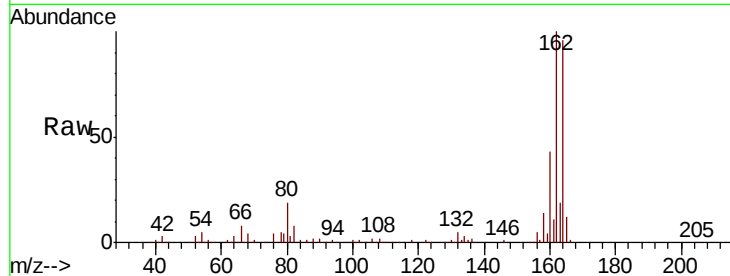
Tot Ion:165 Resp: 20186

Ion Ratio Lower Upper

165 100

63 1.3 46.0 69.0#

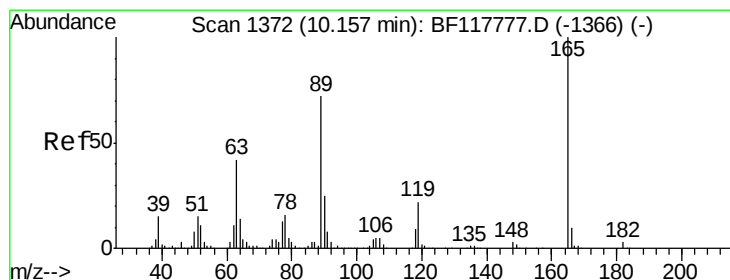
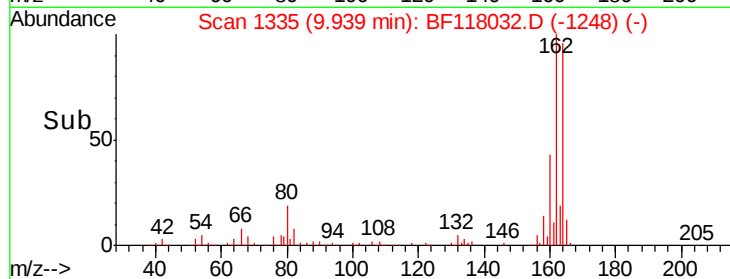
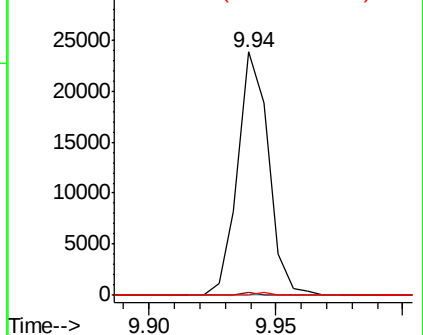
89 0.0 47.7 71.5#



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: 6.434 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.19 min

Lab File: BF118032.D

Acq: 27 Nov 2019 6:54

Tgt Ion:165 Resp: 20186

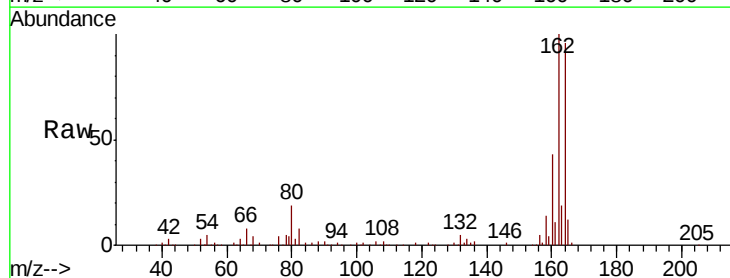
Ion Ratio Lower Upper

165 100

63 1.3 33.7 50.5#

89 0.0 57.3 85.9#

182 0.0 2.3 3.5#

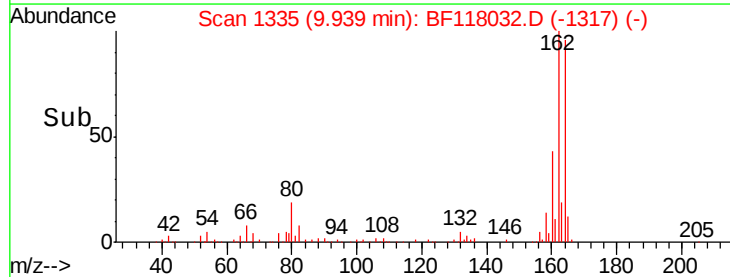
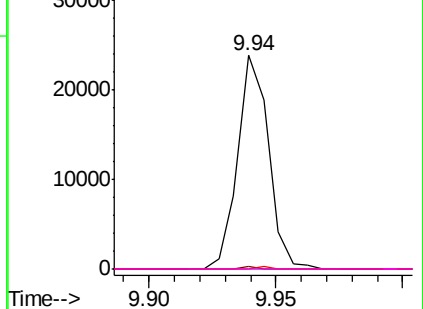


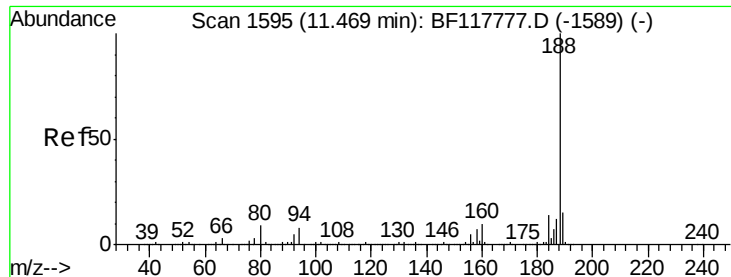
Abundance Ion 165.00 (164.70 to 165.70): E

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

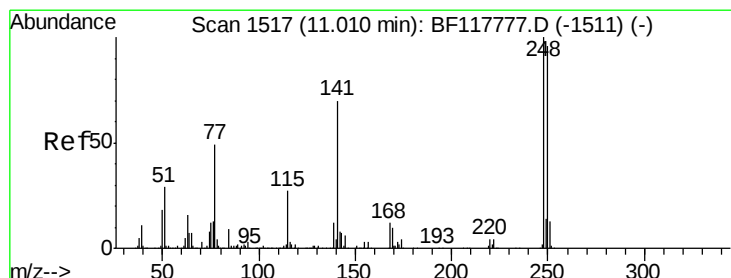
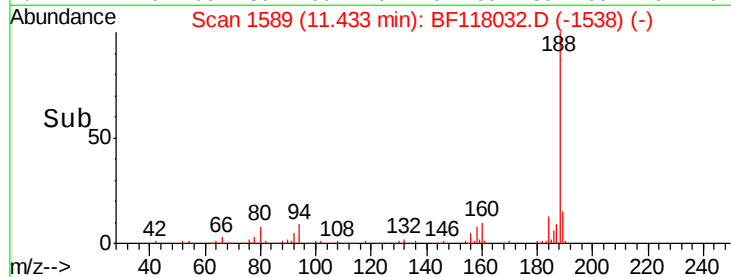
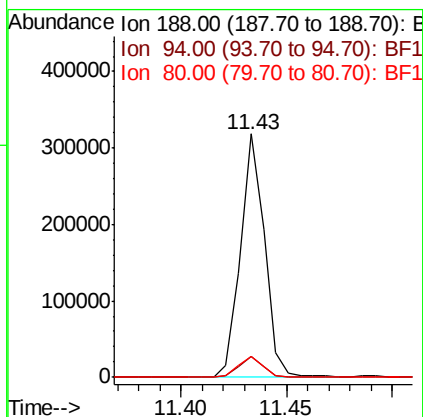
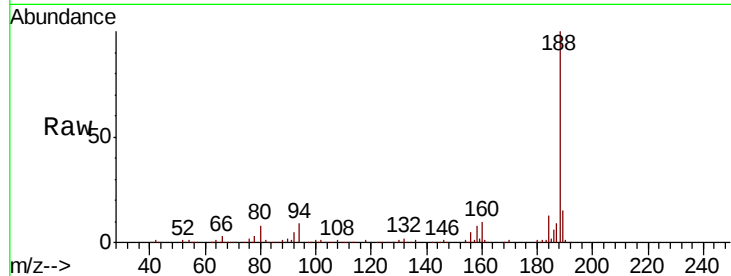




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.43 min Scan# 1589  
 Delta R.T. -0.00 min  
 Lab File: BF118032.D  
 Acq: 27 Nov 2019 6:54

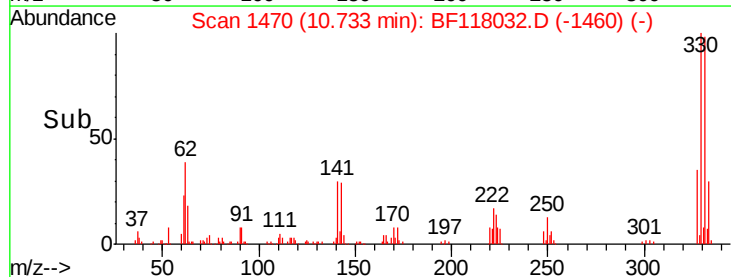
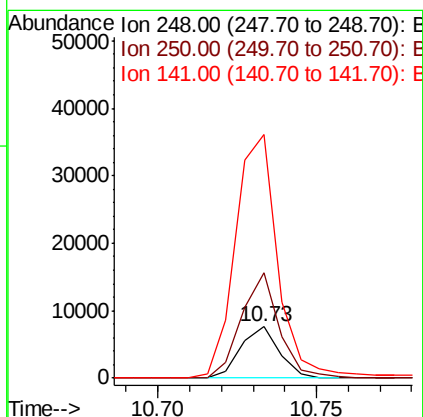
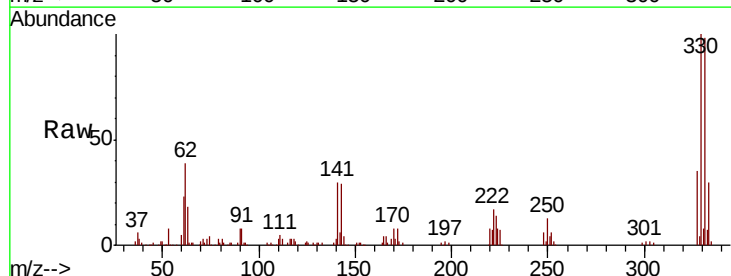
Instrument :  
 BNA\_F  
 ClientSampleId :

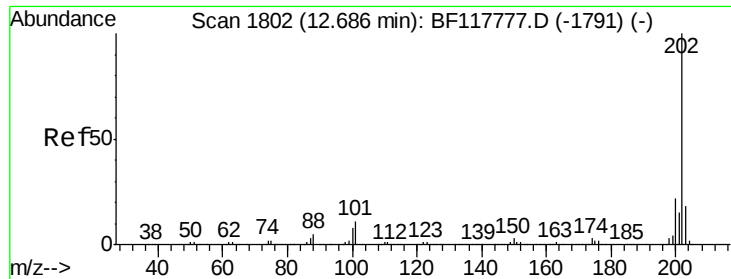
Tot Ion:188 Resp: 250305  
 Ion Ratio Lower Upper  
 188 100  
 94 8.8 6.6 10.0  
 80 8.5 7.2 10.8



#67  
 4-Bromophenyl-phenylether  
 Concen: 2.359 ng  
 RT: 10.73 min Scan# 1470  
 Delta R.T. -0.24 min  
 Lab File: BF118032.D  
 Acq: 27 Nov 2019 6:54

Tgt Ion:248 Resp: 6372  
 Ion Ratio Lower Upper  
 248 100  
 250 207.6 76.6 115.0#  
 141 477.2 55.9 83.9#

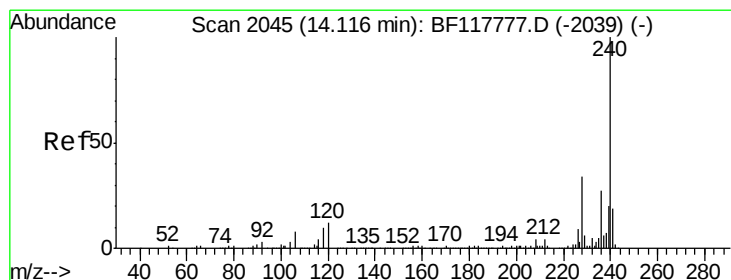
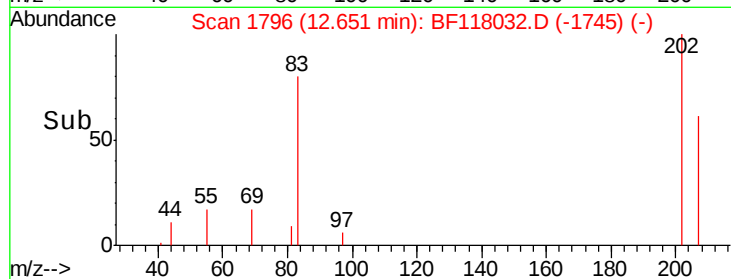
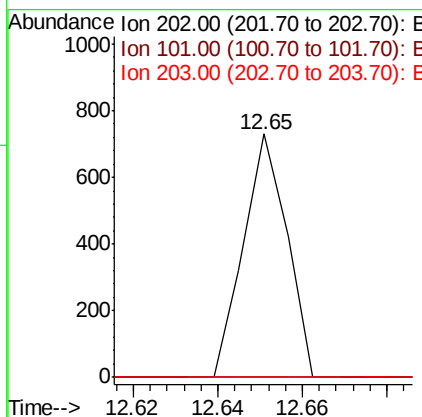
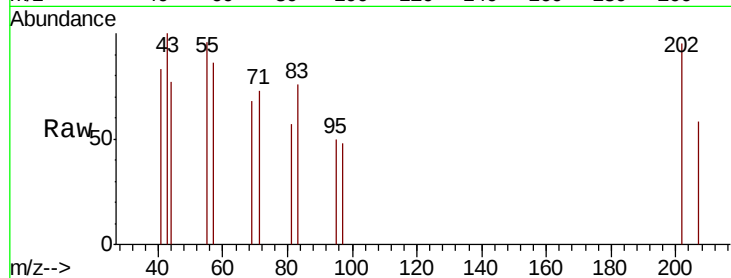




#75  
Fluoranthene  
Concen: Below Cal  
RT: 12.65 min Scan# 1796  
Delta R.T. -0.00 min  
Lab File: BF118032.D  
Acq: 27 Nov 2019 6:54

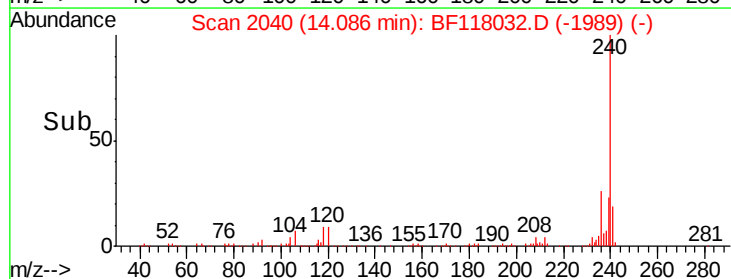
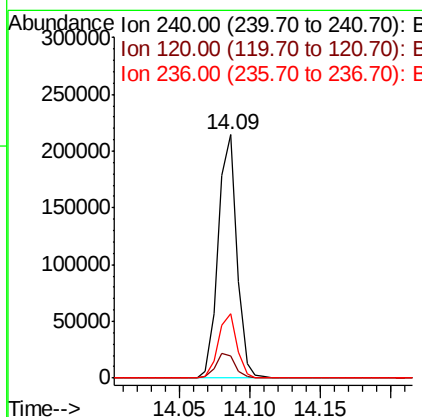
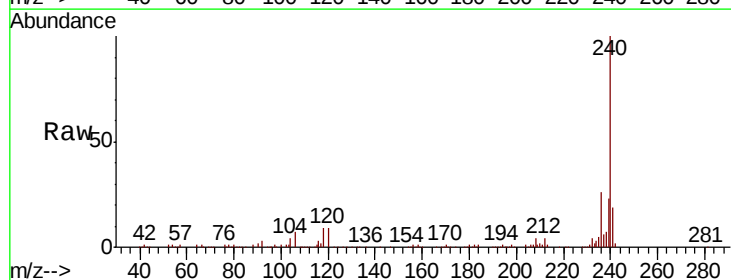
Instrument :  
BNA\_F  
ClientSampleId :

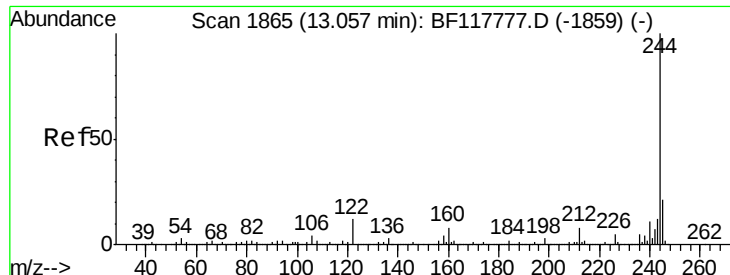
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 0.0   | 31.1  |
| 203     | 0.0   | 0.0   | 38.2  |



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.09 min Scan# 2040  
Delta R.T. -0.00 min  
Lab File: BF118032.D  
Acq: 27 Nov 2019 6:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.2   | 9.5   | 14.3# |
| 236     | 26.5  | 21.3  | 31.9  |

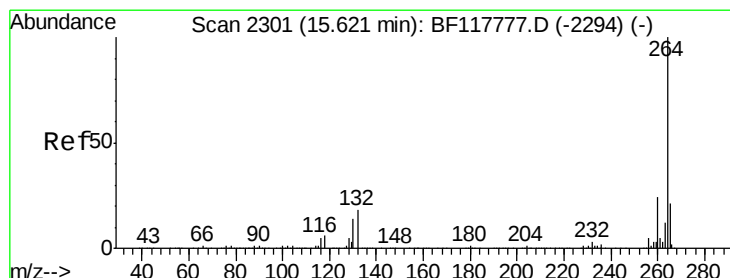
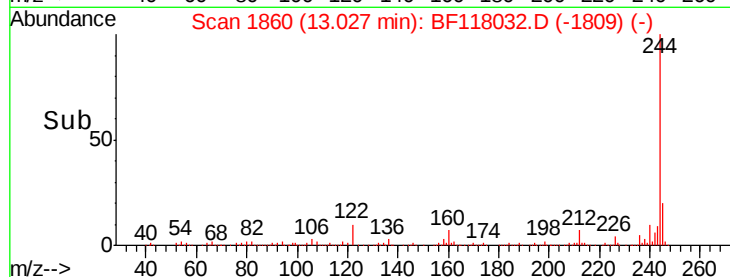
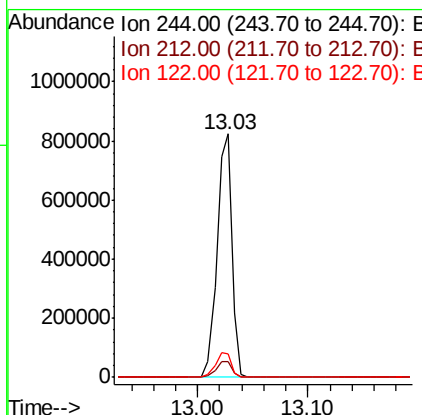
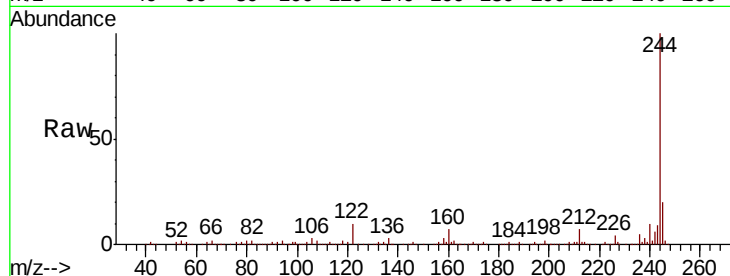




#79  
 Terphenyl-d14  
 Concen: 70.753 ng  
 RT: 13.03 min Scan# 1860  
 Delta R.T. -0.00 min  
 Lab File: BF118032.D  
 Acq: 27 Nov 2019 6:54

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 6.3   | 9.5   |
| 122     | 9.6   | 9.4   | 14.2  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.59 min Scan# 2295  
 Delta R.T. 0.01 min  
 Lab File: BF118032.D  
 Acq: 27 Nov 2019 6:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.4  | 29.0  |
| 265     | 21.6  | 17.1  | 25.7  |

