

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\  
 Data File : BF115856.D  
 Acq On : 31 Jul 2019 10:15  
 Operator : HP/JU  
 Sample : PB121703BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 31 18:37:24 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 2019  
 Response via : Initial Calibration

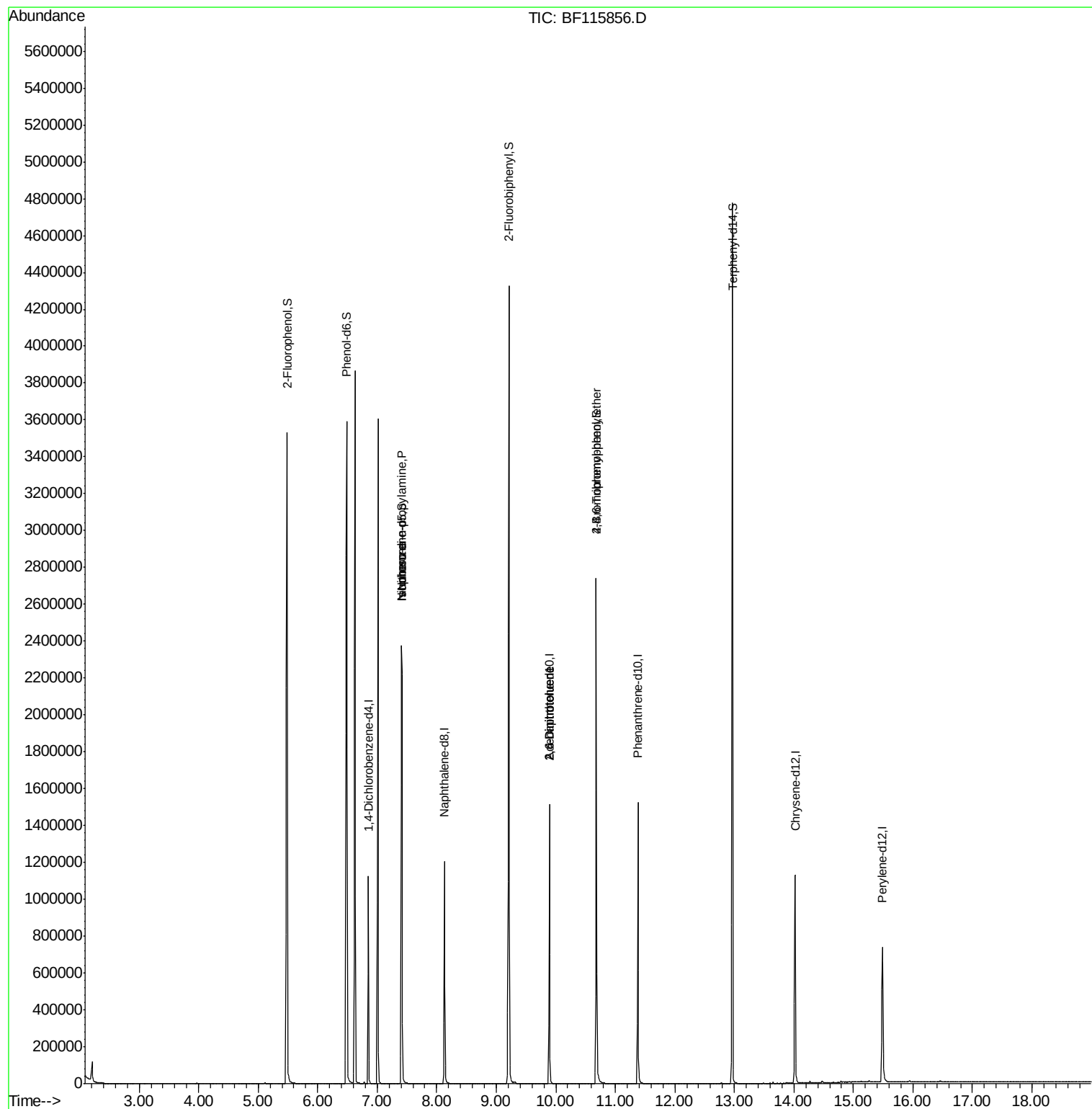
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 154827   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 585613   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.89  | 164  | 311957   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.38 | 188  | 556527   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.02 | 240  | 426378   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.49 | 264  | 396931   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 1142518  | 123.53 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.49  | 99   | 1484454  | 127.22 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 953172   | 93.95  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.69 | 330  | 403103   | 133.28 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.22  | 172  | 1623106  | 97.46  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.97 | 244  | 1801254  | 89.02  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 126864   | 17.545 | ng    | # 79     |
| 25) Isophorone                 | 7.41  | 82   | 944402   | 48.683 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 9.89  | 165  | 39704    | 8.601  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene         | 9.89  | 165  | 39704    | 6.460  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 10.69 | 248  | 24570    | 4.124  | ng    | # 1      |

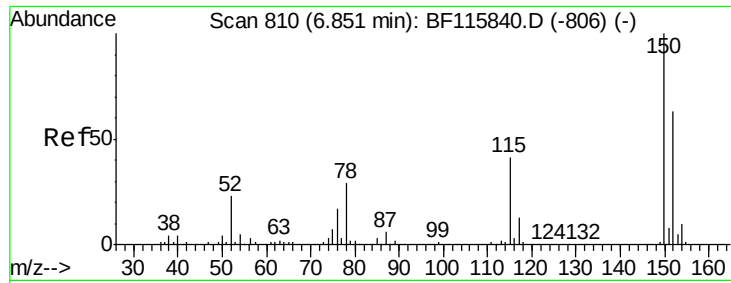
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\  
Data File : BF115856.D  
Acq On : 31 Jul 2019 10:15  
Operator : HP/JU  
Sample : PB121703BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jul 31 18:37:24 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 31 15:31:51 2019  
Response via : Initial Calibration



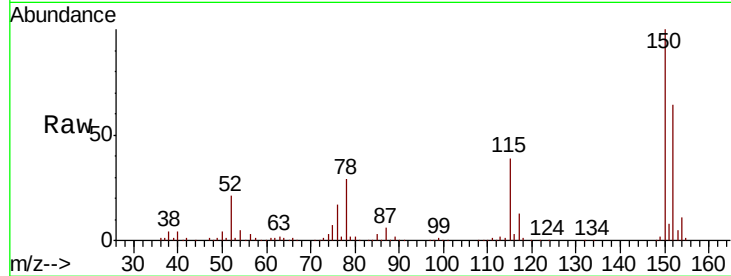


#1

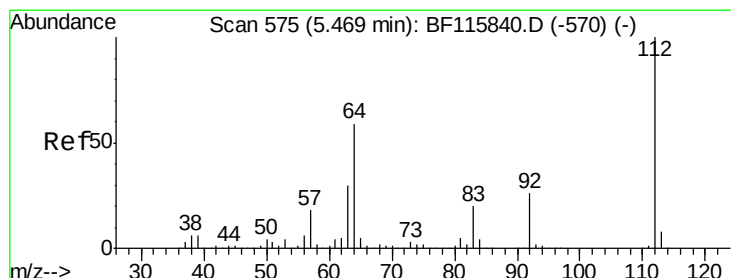
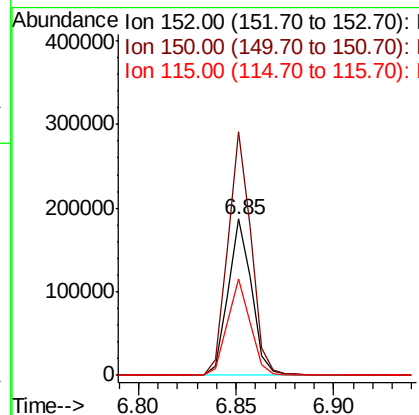
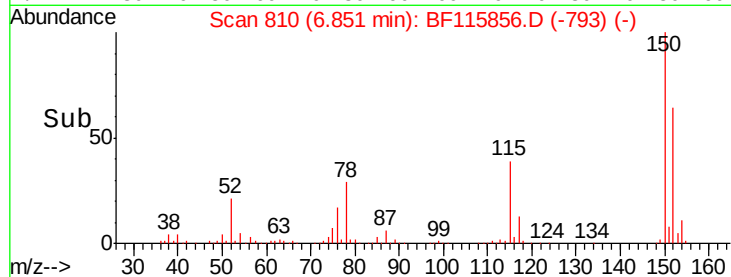
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BF115856.D  
Acq: 31 Jul 2019 10:15

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 154827  
Ion Ratio Lower Upper  
152 100  
150 156.1 127.4 191.0  
115 61.4 51.8 77.8



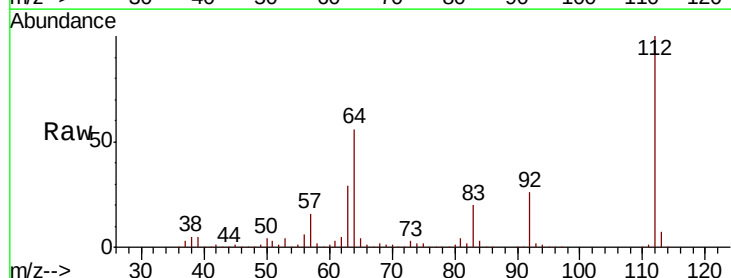
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



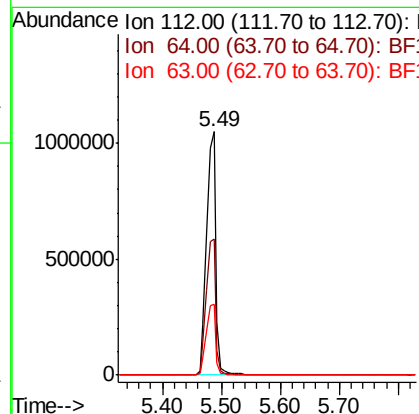
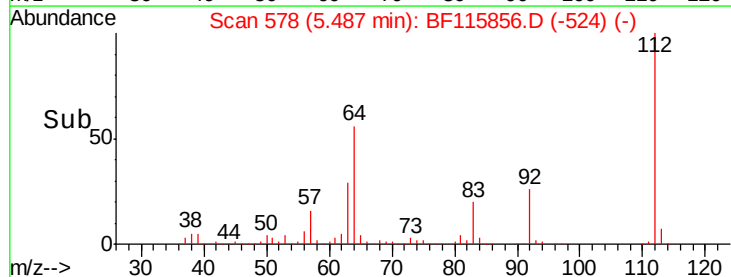
#5

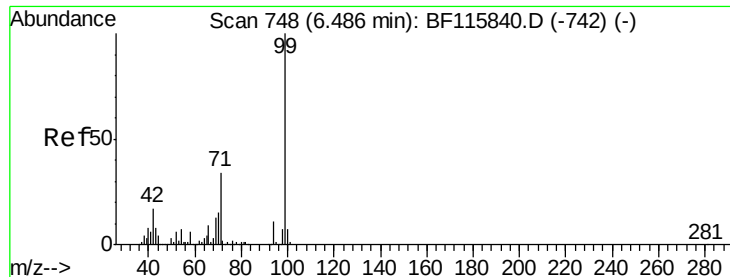
2-Fluorophenol  
Concen: 123.534 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.02 min  
Lab File: BF115856.D  
Acq: 31 Jul 2019 10:15

Tgt Ion:112 Resp: 1142518  
Ion Ratio Lower Upper  
112 100  
64 55.9 46.8 70.2  
63 29.0 24.2 36.2



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: 127.217 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF115856.D

Acq: 31 Jul 2019 10:15

Instrument :

BNA\_F

ClientSampleId :

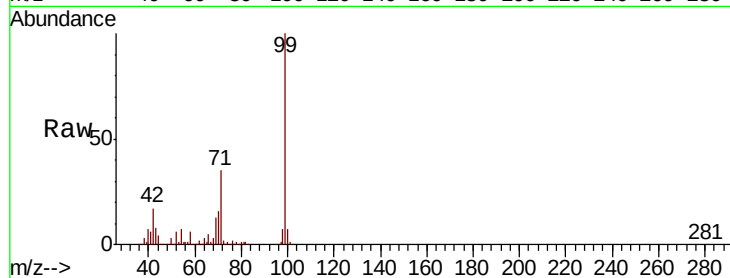
Tot Ion: 99 Resp: 1484454

Ion Ratio Lower Upper

99 100

42 17.3 13.8 20.6

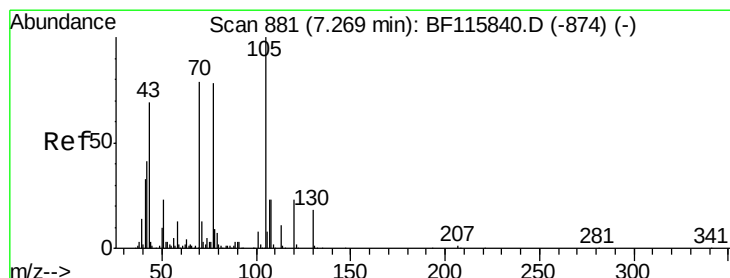
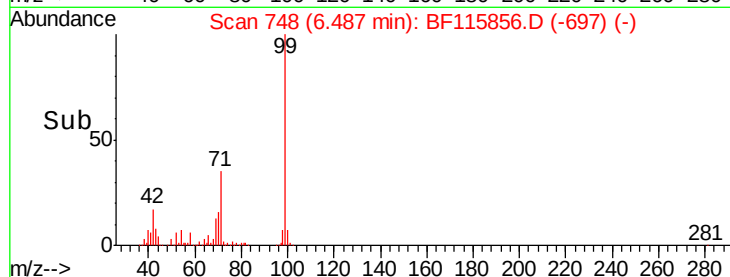
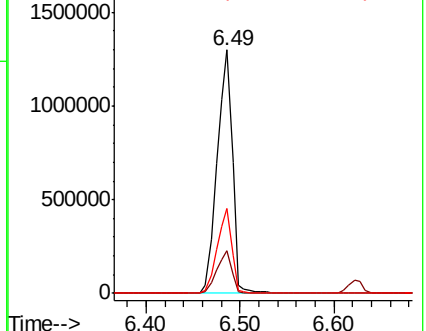
71 34.6 27.1 40.7



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: 17.545 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF115856.D

Acq: 31 Jul 2019 10:15

Tgt Ion: 70 Resp: 126864

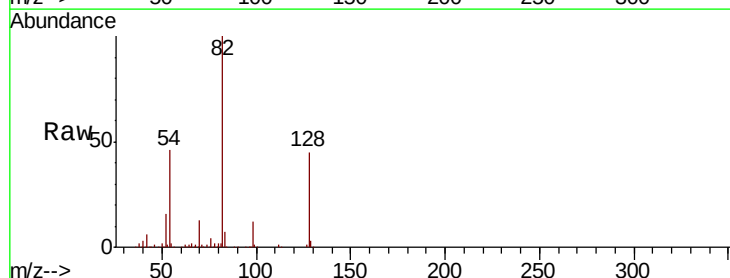
Ion Ratio Lower Upper

70 100

42 44.9 41.8 62.8

101 0.0 7.7 11.5#

130 2.2 17.8 26.6#

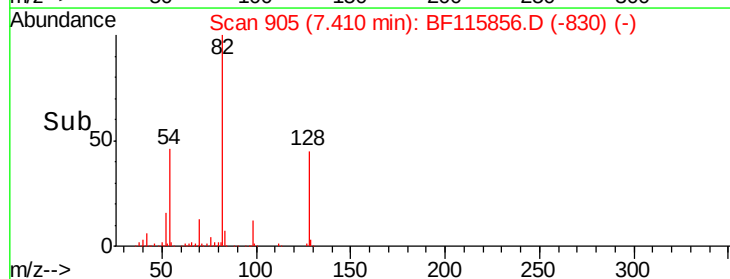
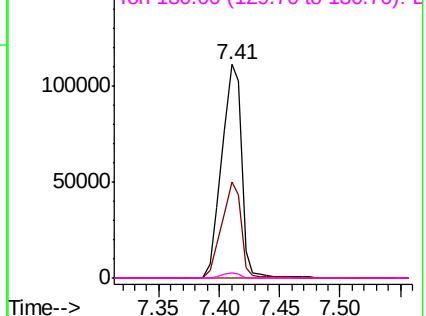


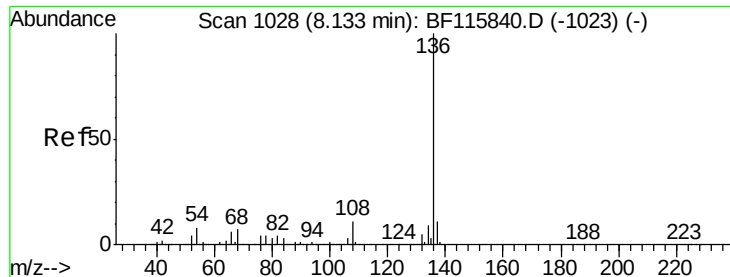
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

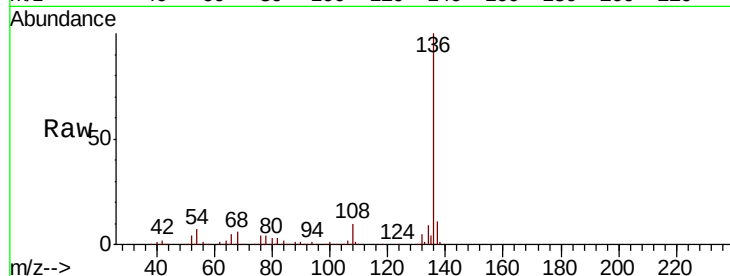




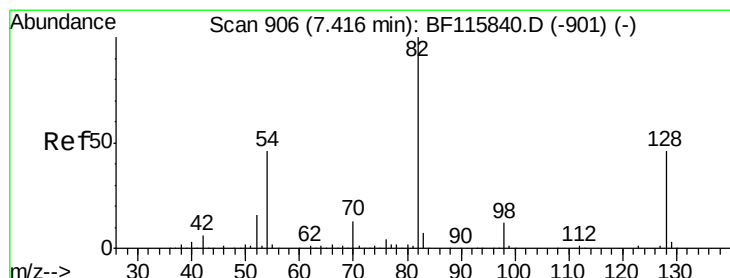
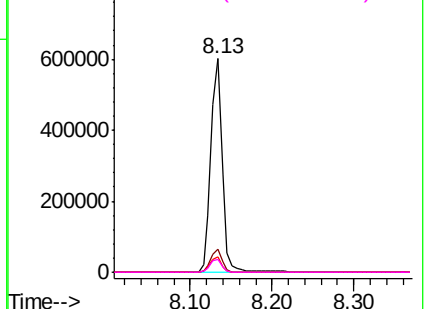
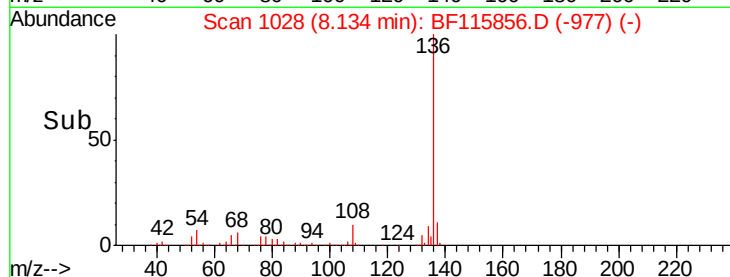
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. 0.00 min  
Lab File: BF115856.D  
Acq: 31 Jul 2019 10:15

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 585613      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 9.1 13.7    |
| 54          | 6.9   | 6.1 9.1     |
| 68          | 5.9   | 5.4 8.2     |

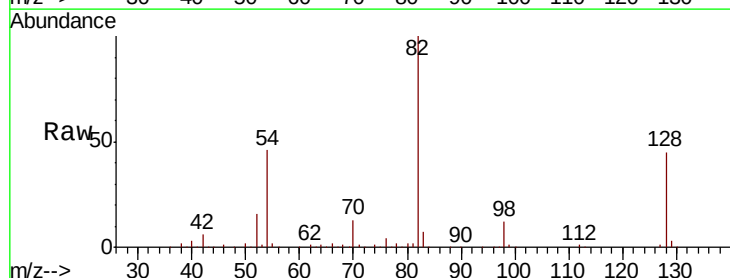


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

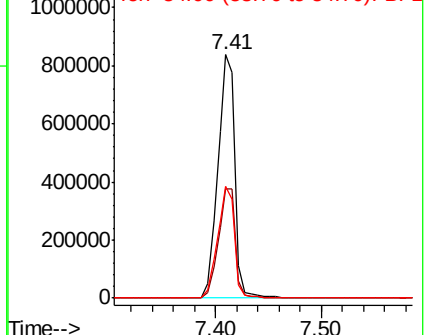
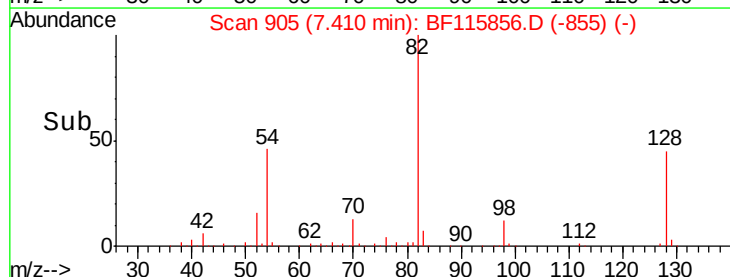


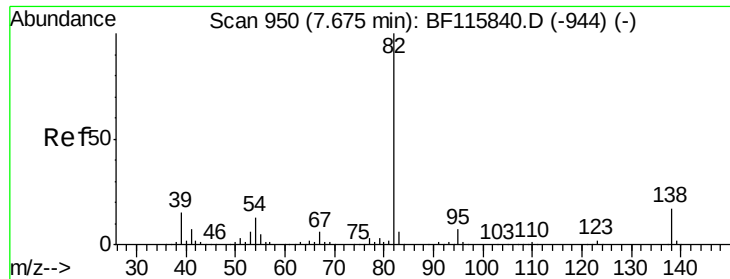
#23  
Nitrobenzene-d5  
Concen: 93.953 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF115856.D  
Acq: 31 Jul 2019 10:15

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 953172      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.8  | 36.6 55.0   |
| 54          | 45.7  | 36.6 55.0   |



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





#25

Isophorone

Concen: 48.683 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF115856.D

Acq: 31 Jul 2019 10:15

Instrument :

BNA\_F

ClientSampled :

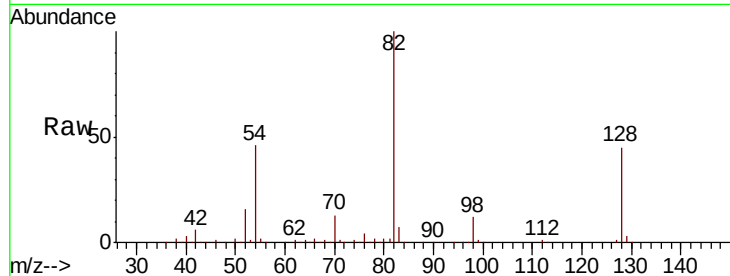
Tot Ion: 82 Resp: 944402

Ion Ratio Lower Upper

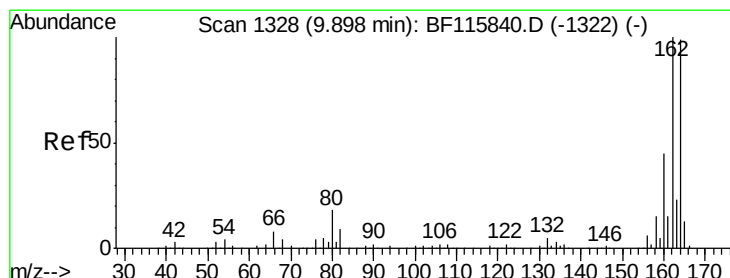
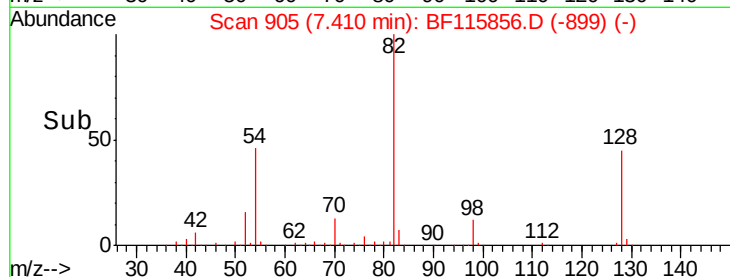
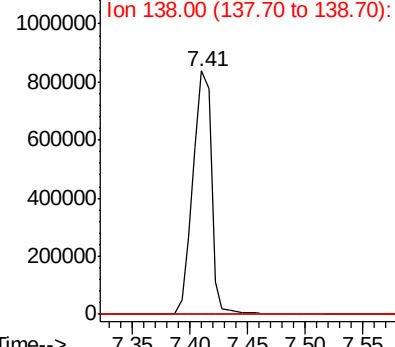
82 100

95 0.0 5.5 8.3#

138 0.0 13.9 20.9#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF115856.D

Acq: 31 Jul 2019 10:15

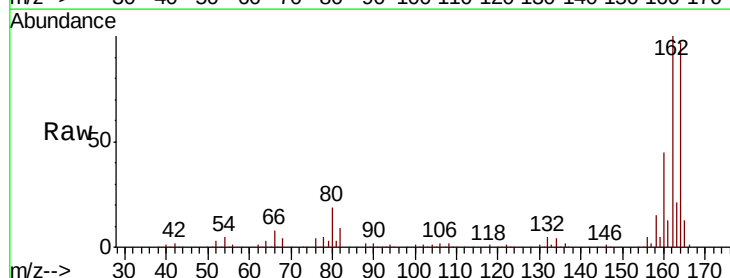
Tgt Ion:164 Resp: 311957

Ion Ratio Lower Upper

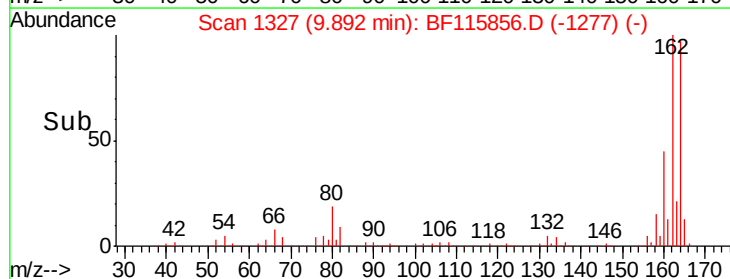
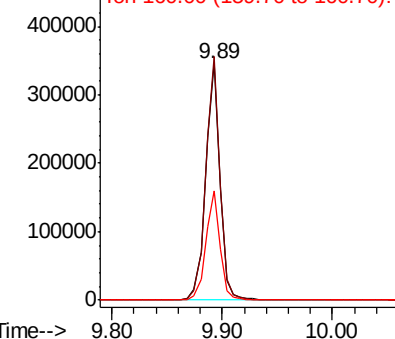
164 100

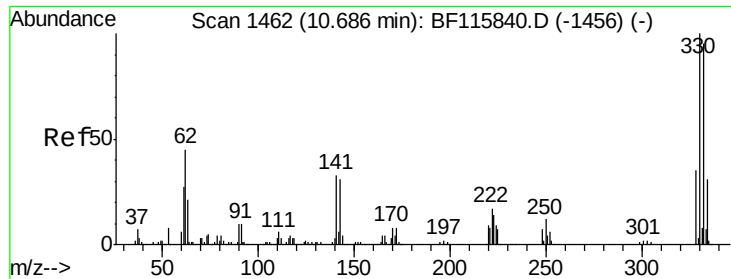
162 102.7 80.8 121.2

160 46.2 36.2 54.4



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

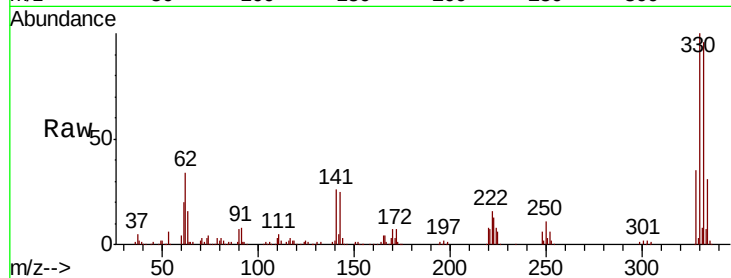




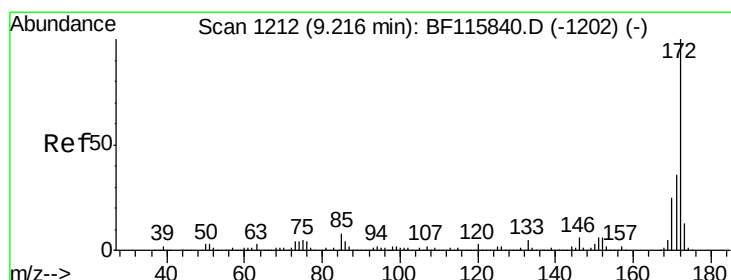
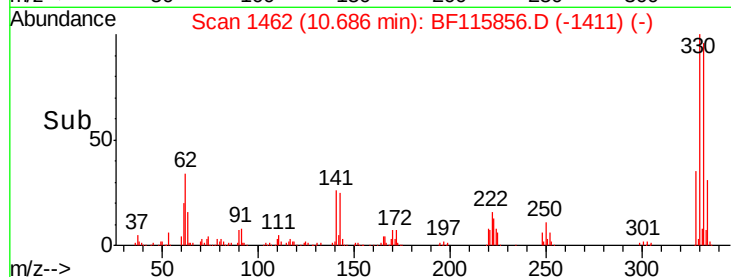
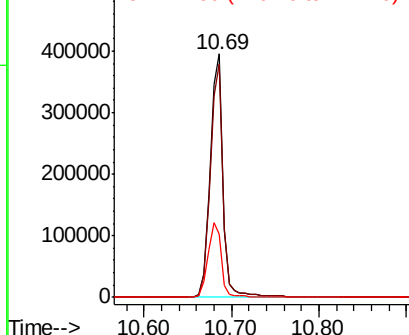
#42  
 2,4,6-Tribromophenol  
 Concen: 133.279 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. 0.00 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 403103  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 77.7 116.5  
 141 33.0 28.1 42.1

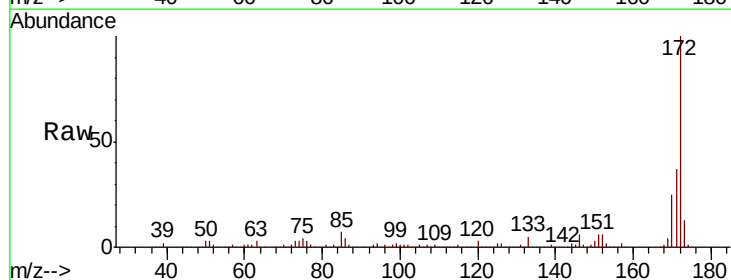


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

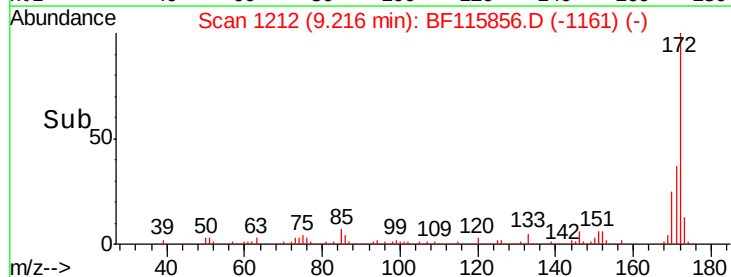
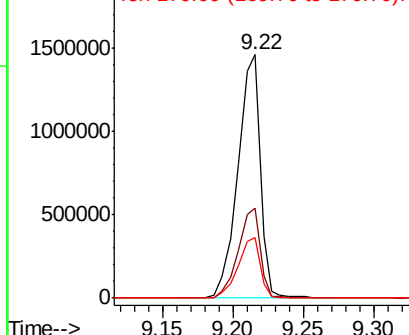


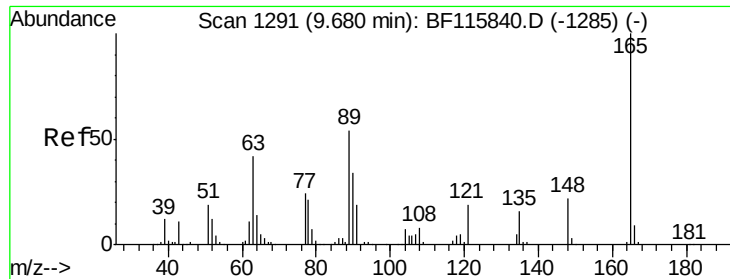
#45  
 2-Fluorobiphenyl  
 Concen: 97.456 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. 0.00 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

Tgt Ion:172 Resp: 1623106  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.1 43.7  
 170 24.9 20.1 30.1



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

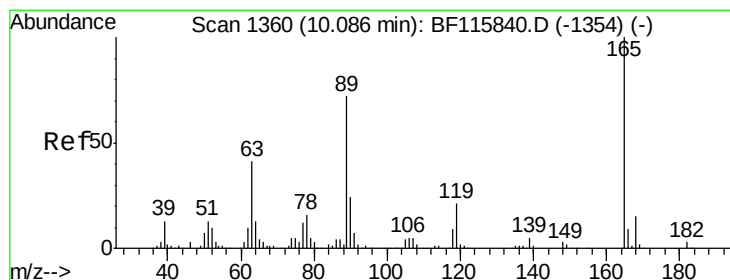
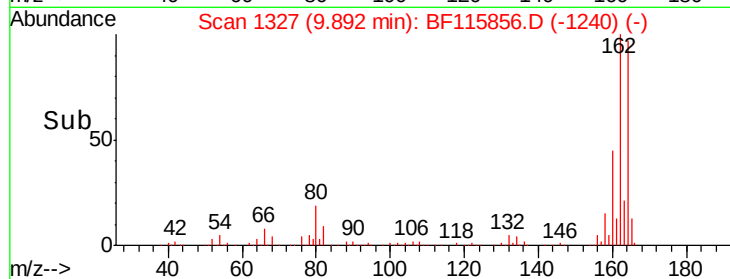
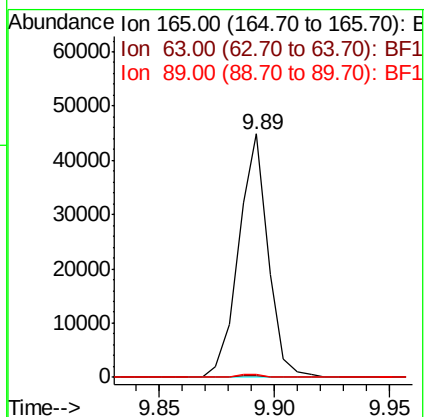
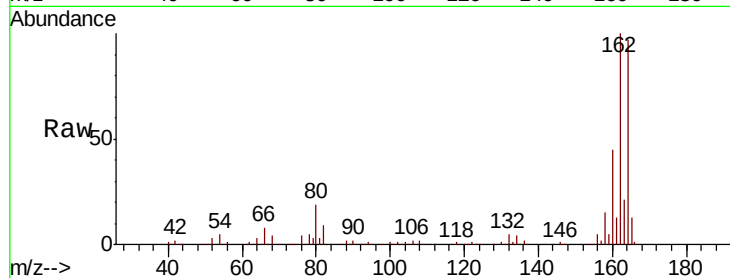




#51  
 2,6-Dinitrotoluene  
 Concen: 8.601 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. 0.21 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

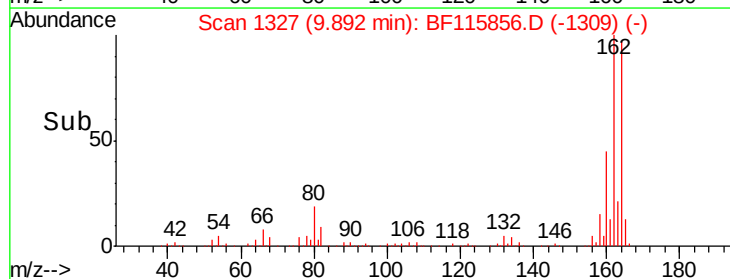
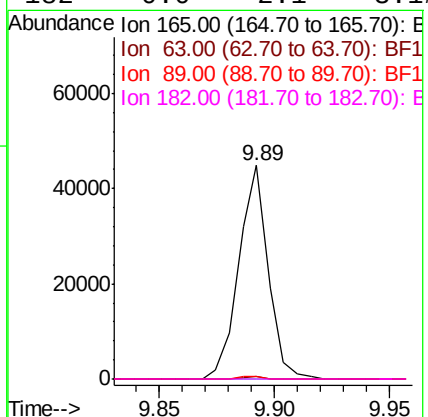
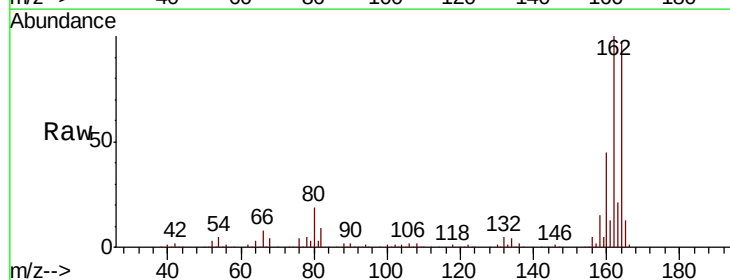
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 39.4  | 59.2# |
| 89      | 1.4   | 43.0  | 64.6# |

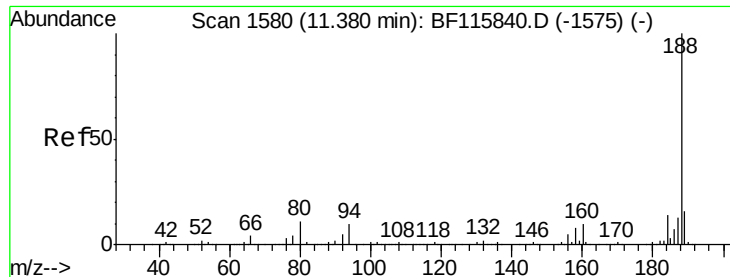


#57  
 2,4-Dinitrotoluene  
 Concen: 6.460 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. -0.19 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 33.2  | 49.8# |
| 89      | 1.4   | 57.3  | 85.9# |
| 182     | 0.0   | 2.1   | 3.1#  |



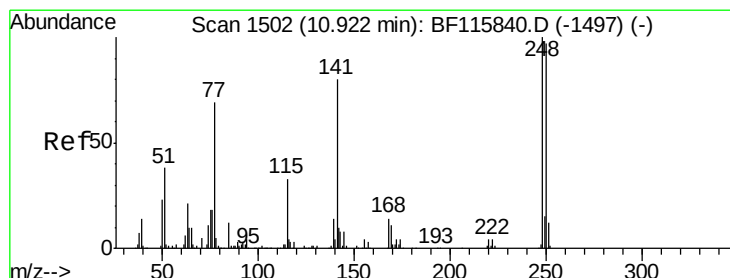
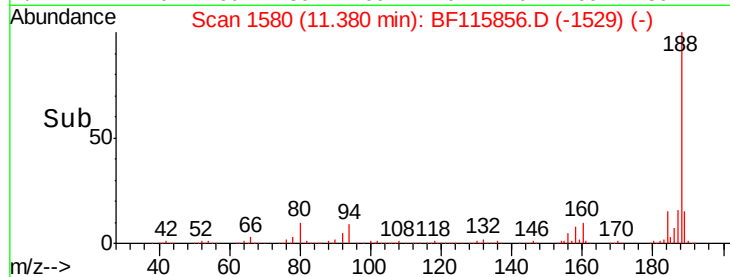
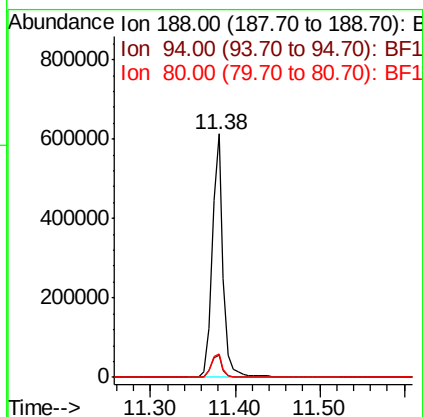
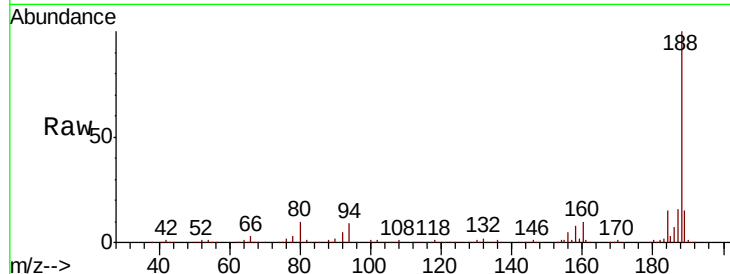




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.38 min Scan# 1580  
 Delta R.T. 0.00 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

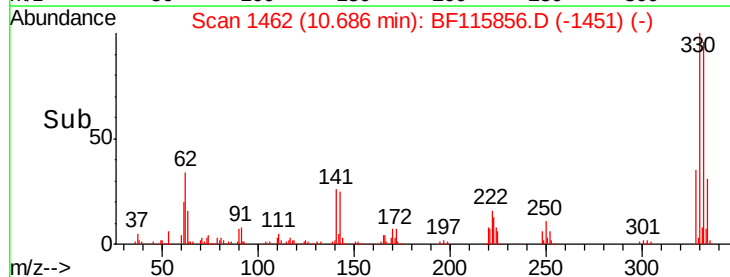
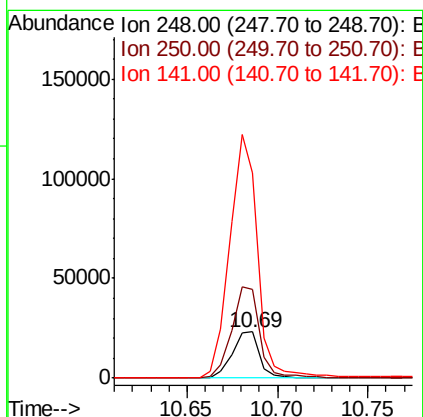
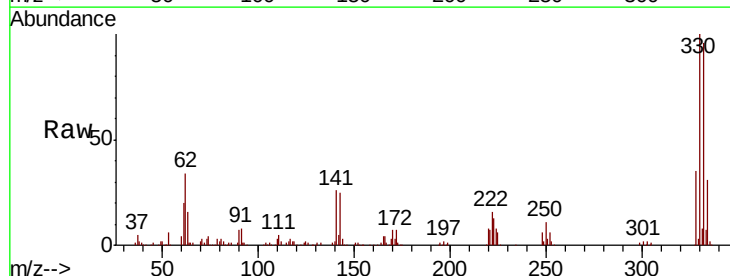
Instrument :  
 BNA\_F  
 ClientSampleId :

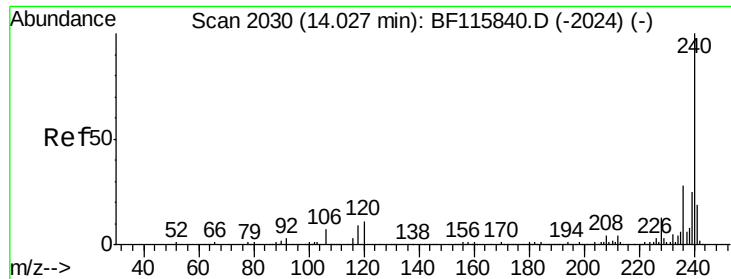
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.9   | 8.0   | 12.0  |
| 80      | 9.7   | 8.6   | 12.8  |



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.124 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. -0.24 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 191.7 | 77.8  | 116.6# |
| 141     | 445.8 | 64.3  | 96.5#  |

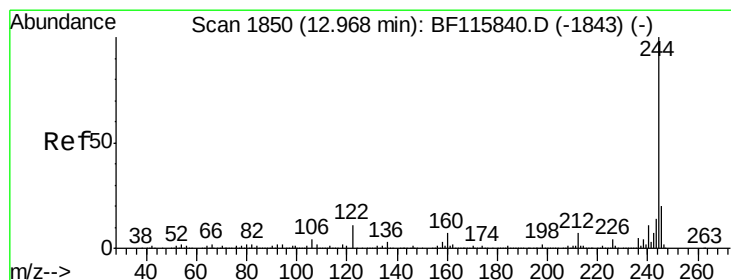
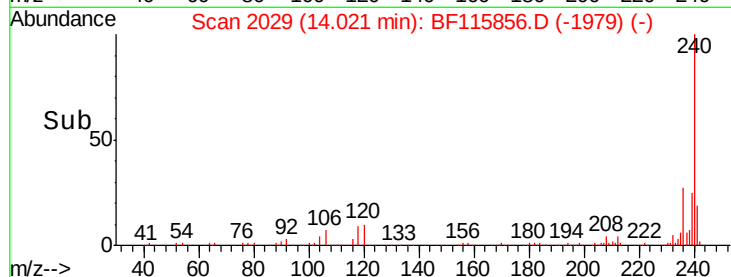
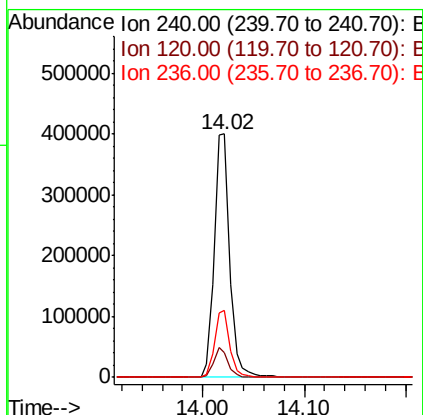
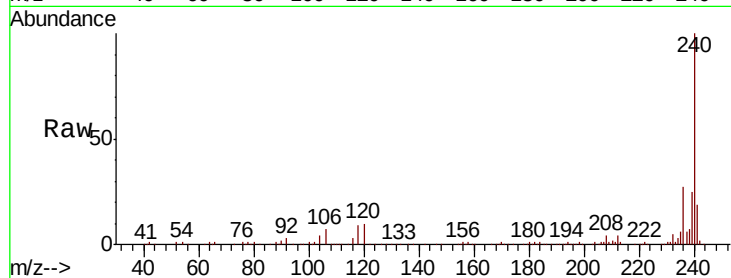




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

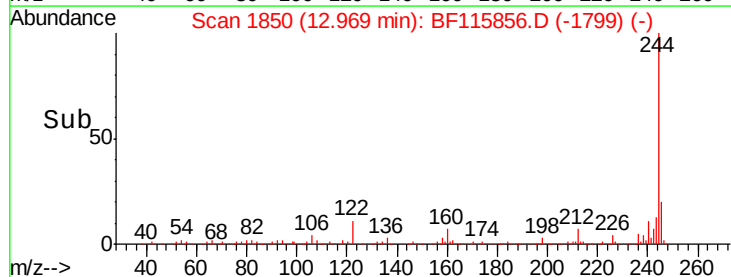
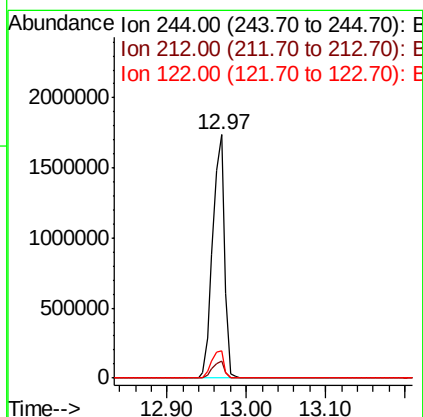
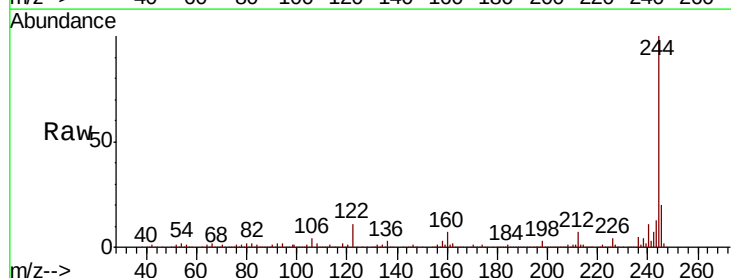
Instrument :  
 BNA\_F  
 ClientSampleId :

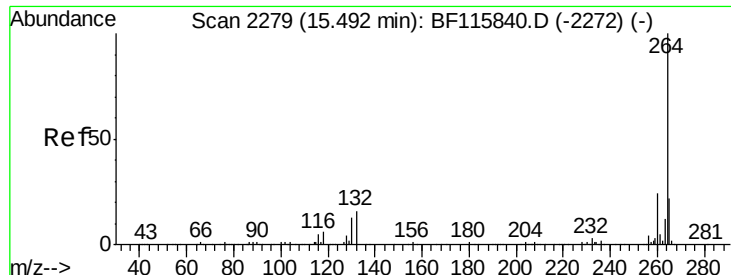
Tot Ion:240 Resp: 426378  
 Ion Ratio Lower Upper  
 240 100  
 120 10.3 8.5 12.7  
 236 27.4 22.2 33.2



#79  
 Terphenyl-d14  
 Concen: 89.018 ng  
 RT: 12.97 min Scan# 1850  
 Delta R.T. 0.00 min  
 Lab File: BF115856.D  
 Acq: 31 Jul 2019 10:15

Tgt Ion:244 Resp: 1801254  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.6 8.4  
 122 11.1 8.6 13.0

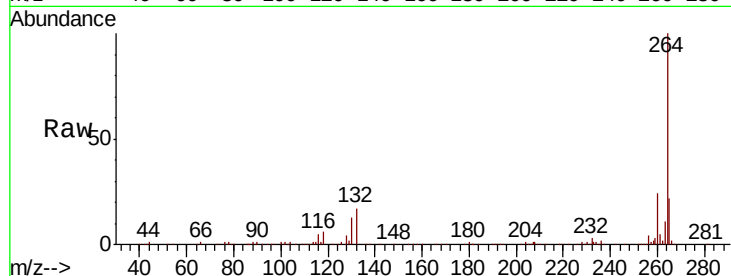




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.49 min Scan# 2278  
Delta R.T. -0.01 min  
Lab File: BF115856.D  
Acq: 31 Jul 2019 10:15

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 396931 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.2  | 19.4  | 29.2   |
| 265      | 21.9  | 17.5  | 26.3   |



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

