

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\  
 Data File : BF116983.D  
 Acq On : 12 Sep 2019 10:44  
 Operator : HP/JU  
 Sample : PB122853BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 12 14:26:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 12 08:24:39 2019  
 Response via : Initial Calibration

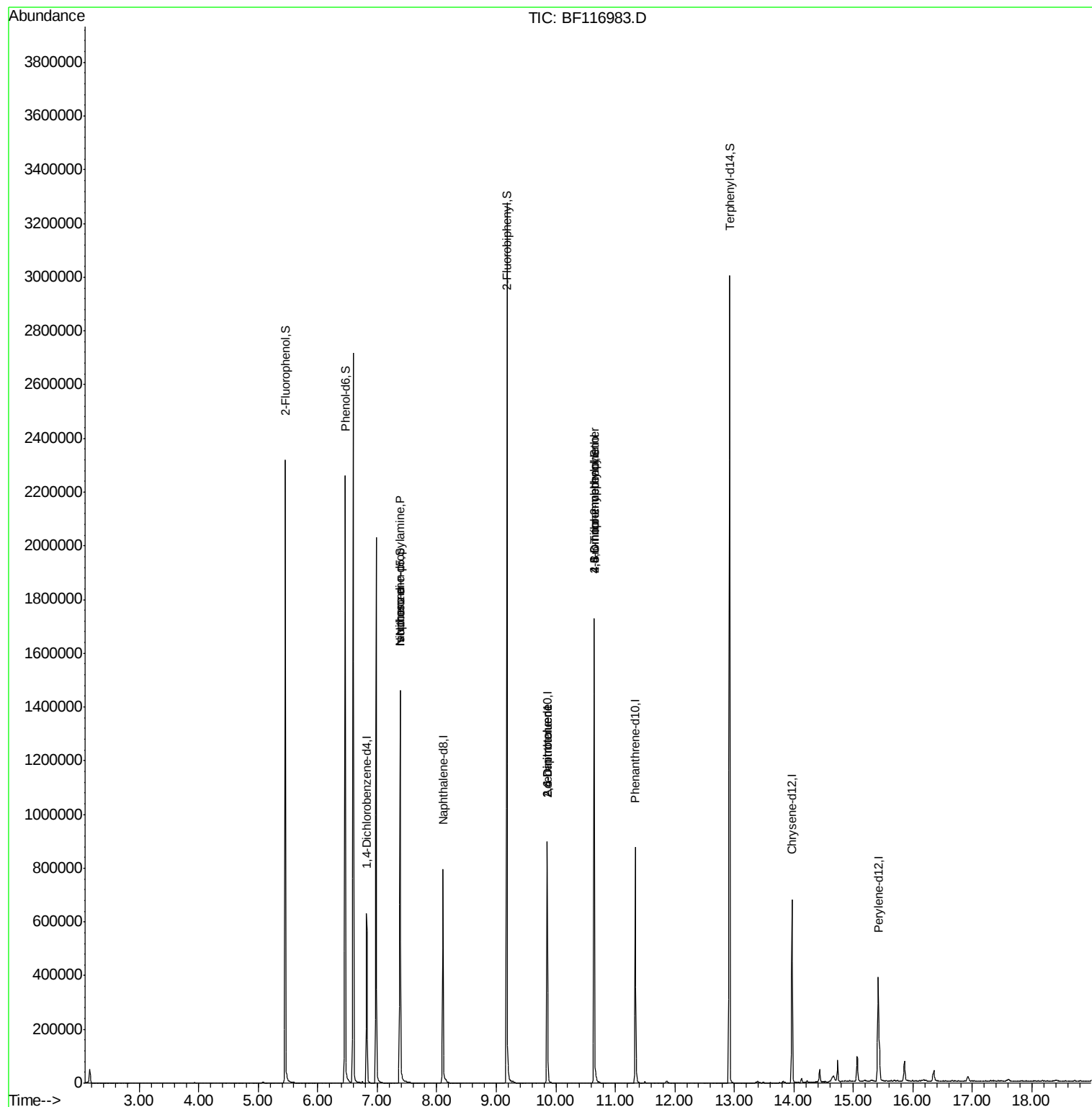
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 99785    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 395015   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.86  | 164  | 208788   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.34 | 188  | 341401   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.97 | 240  | 229089   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.42 | 264  | 187544   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 690449   | 112.10 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.46  | 99   | 921794   | 113.97 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 596858   | 86.26  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.65 | 330  | 201343   | 144.25 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.18  | 172  | 1058580  | 85.53  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.92 | 244  | 982152   | 79.31  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 79384    | 14.907 | ng    | # 79     |
| 25) Isophorone                 | 7.39  | 82   | 596854   | 42.568 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 9.86  | 165  | 26371    | 9.589  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 9.86  | 165  | 26371    | 7.842  | ng    | # 18     |
| 65) 4,6-Dinitro-2-methylphenol | 10.65 | 198  | 301      | 7.653  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.65 | 248  | 12506    | 3.606  | ng    | # 1      |

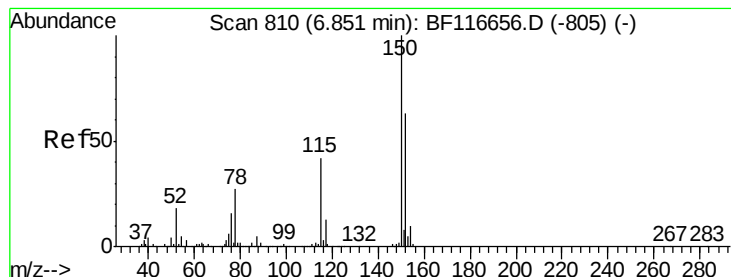
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\  
Data File : BF116983.D  
Acq On : 12 Sep 2019 10:44  
Operator : HP/JU  
Sample : PB122853BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Sep 12 14:26:16 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 12 08:24:39 2019  
Response via : Initial Calibration



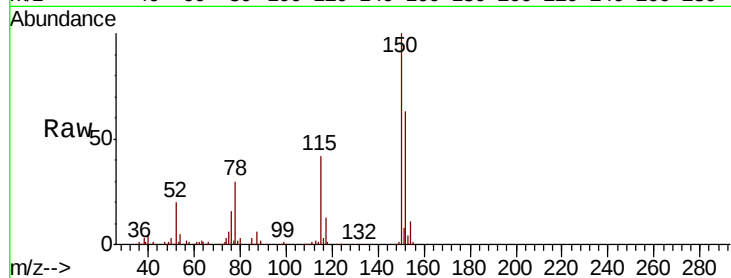


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. -0.01 min  
Lab File: BF116983.D  
Acq: 12 Sep 2019 10:44

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.7 | 126.2 | 189.2 |
| 115     | 67.1  | 50.2  | 75.2  |

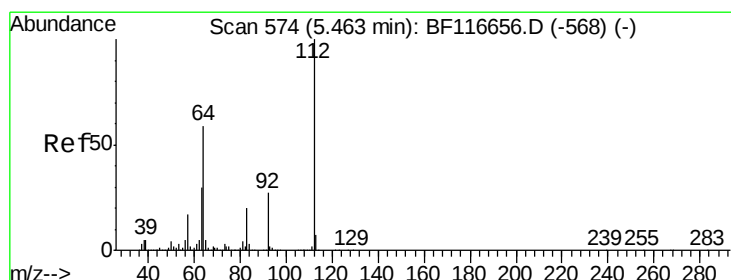
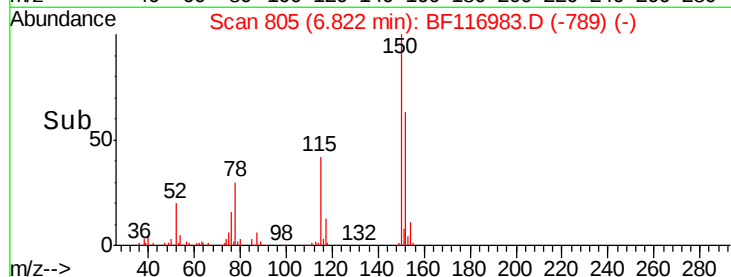
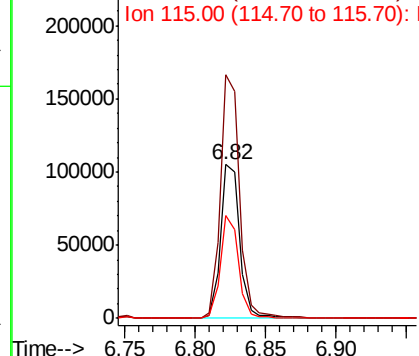


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

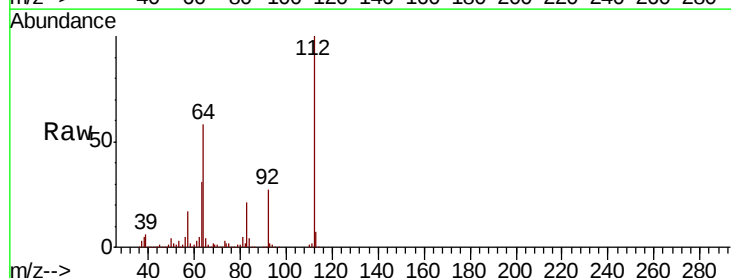
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 112.098 ng  
RT: 5.46 min Scan# 573  
Delta R.T. 0.02 min  
Lab File: BF116983.D  
Acq: 12 Sep 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.4  | 47.1  | 70.7  |
| 63      | 30.9  | 25.4  | 38.0  |

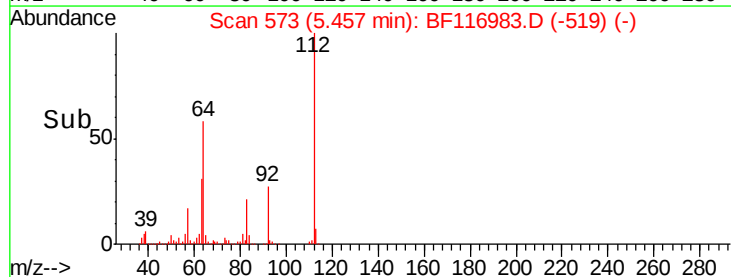
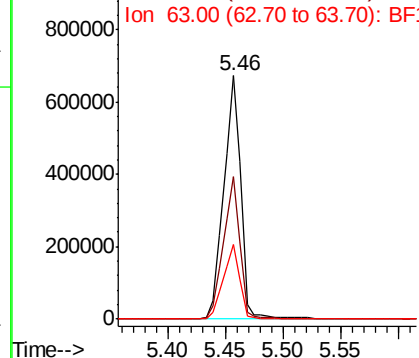


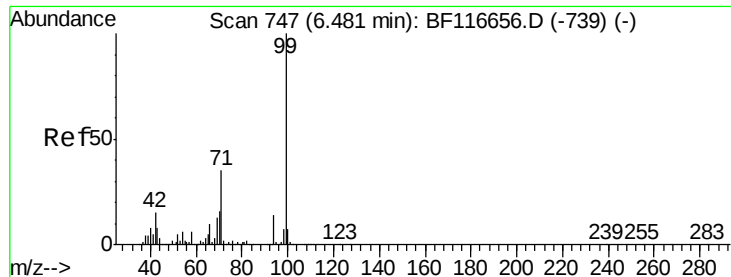
Abundance

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: 113.972 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.00 min

Lab File: BF116983.D

Acq: 12 Sep 2019 10:44

Instrument :

BNA\_F

ClientSampleId :

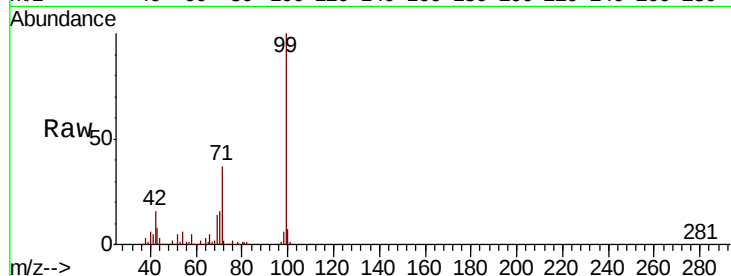
Tot Ion: 99 Resp: 921794

Ion Ratio Lower Upper

99 100

42 15.9 12.0 18.0

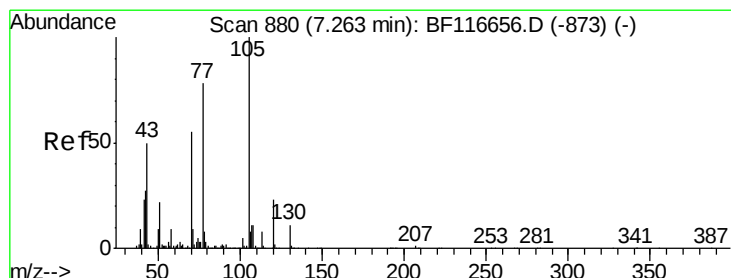
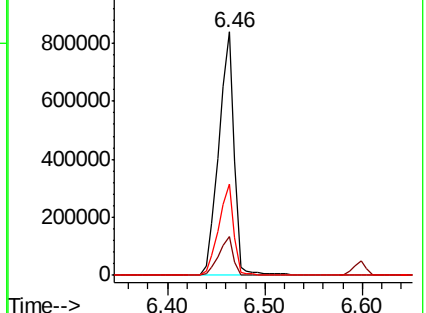
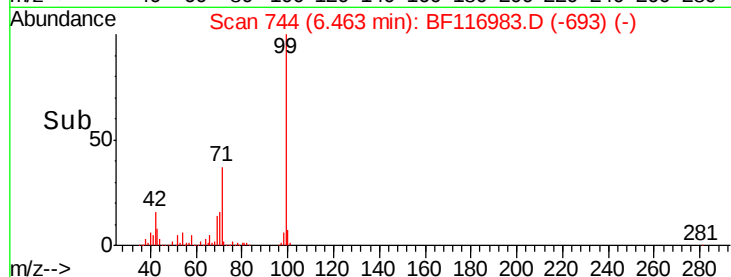
71 37.4 29.7 44.5



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: 14.907 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

Lab File: BF116983.D

Acq: 12 Sep 2019 10:44

Tgt Ion: 70 Resp: 79384

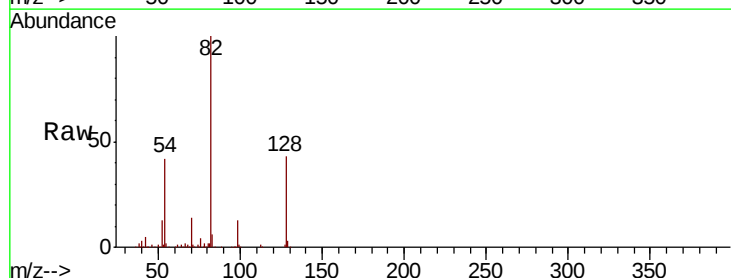
Ion Ratio Lower Upper

70 100

42 37.5 37.0 55.4

101 0.0 7.4 11.2#

130 2.4 16.0 24.0#

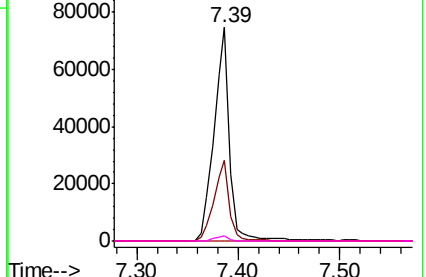
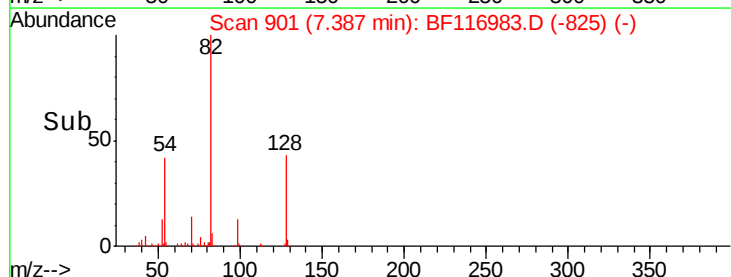


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

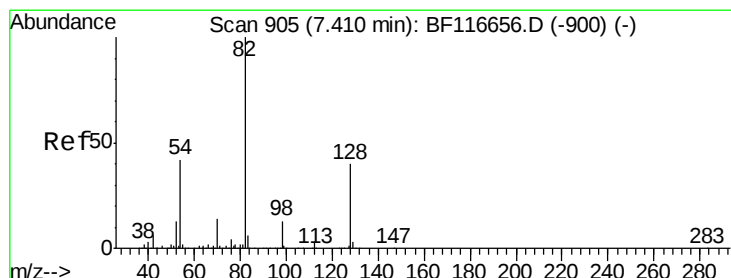
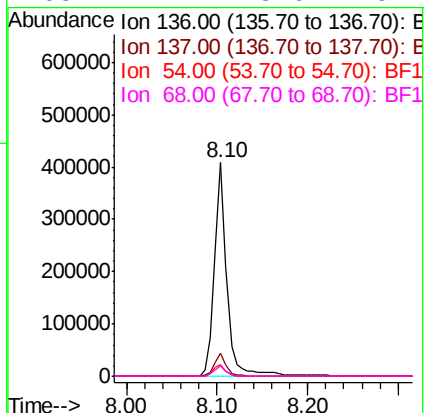
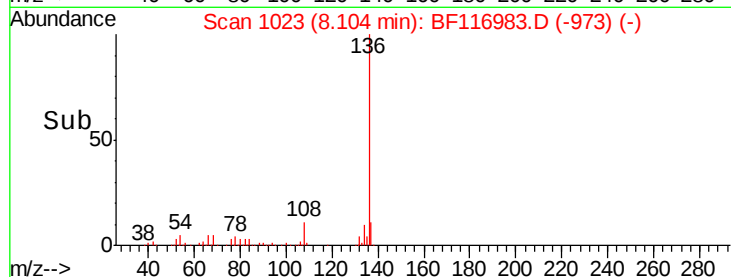
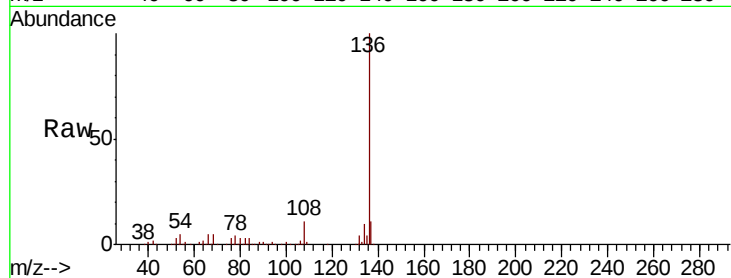




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1023  
Delta R.T. -0.01 min  
Lab File: BF116983.D  
Acq: 12 Sep 2019 10:44

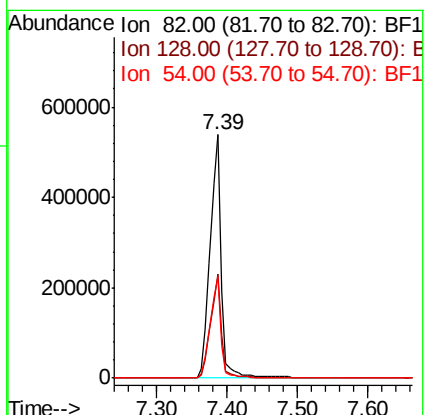
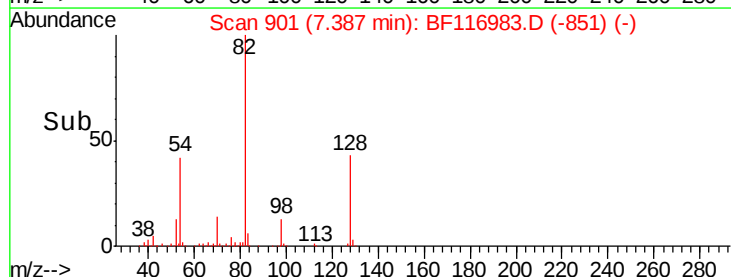
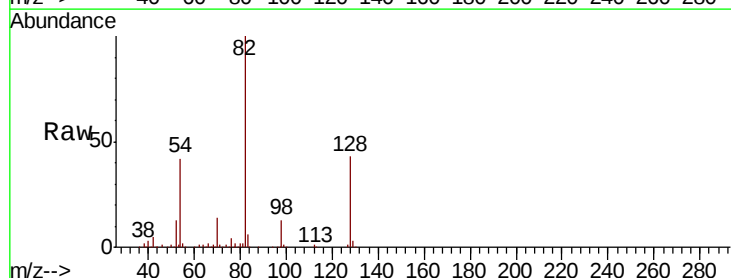
Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 395015   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 8.5 12.7 |
| 54          | 5.2   | 3.8 5.8  |
| 68          | 4.7   | 3.6 5.4  |



#23  
Nitrobenzene-d5  
Concen: 86.258 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BF116983.D  
Acq: 12 Sep 2019 10:44

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 596858    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.9  | 35.0 52.4 |
| 54          | 41.6  | 32.6 48.8 |





#25

Isophorone

Concen: 42.568 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.26 min

Lab File: BF116983.D

Acq: 12 Sep 2019 10:44

Instrument :

BNA\_F

ClientSampleId :

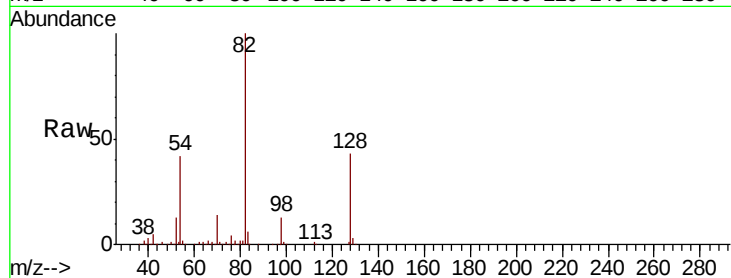
Tot Ion: 82 Resp: 596854

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

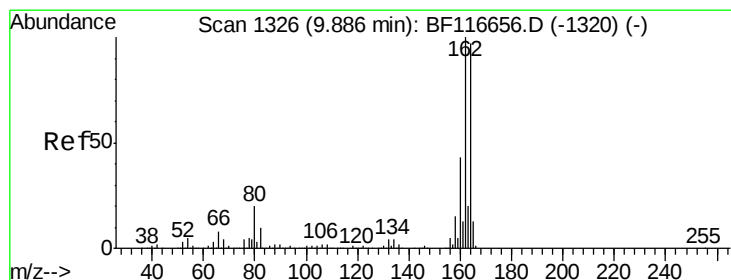
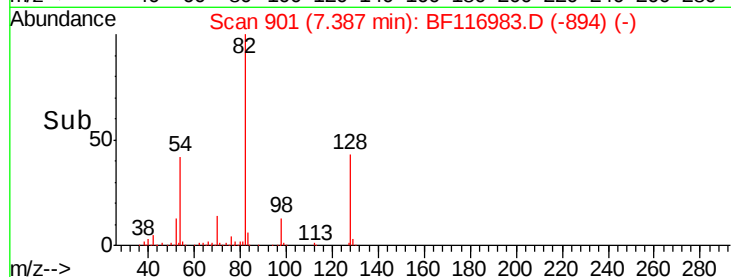
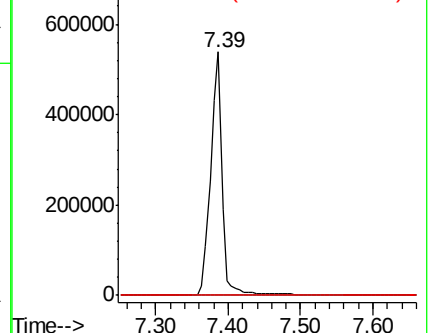
138 0.0 13.4 20.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1321

Delta R.T. 0.00 min

Lab File: BF116983.D

Acq: 12 Sep 2019 10:44

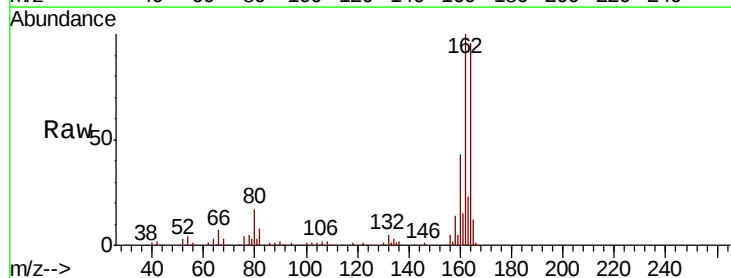
Tgt Ion: 164 Resp: 208788

Ion Ratio Lower Upper

164 100

162 104.1 81.8 122.6

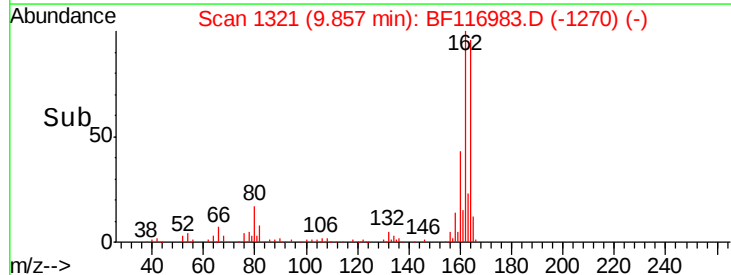
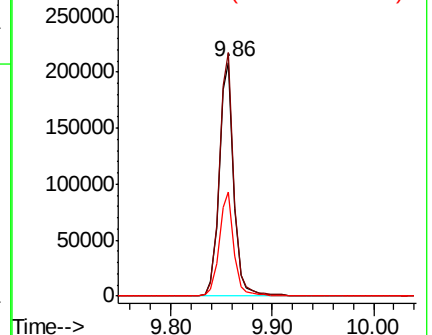
160 44.6 35.7 53.5

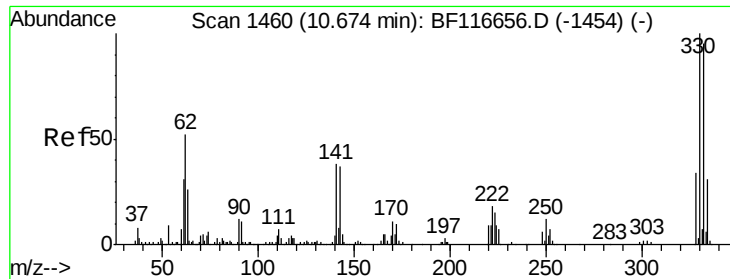


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

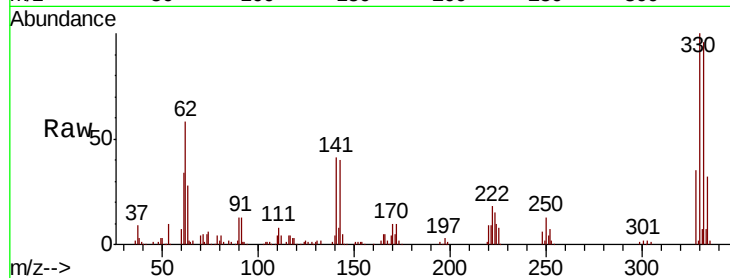




#42  
 2,4,6-Tribromophenol  
 Concen: 144.250 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. 0.00 min  
 Lab File: BF116983.D  
 Acq: 12 Sep 2019 10:44

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 75.9  | 113.9 |
| 141     | 44.2  | 35.6  | 53.4  |

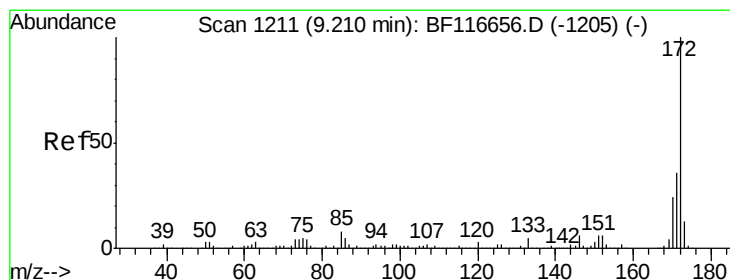
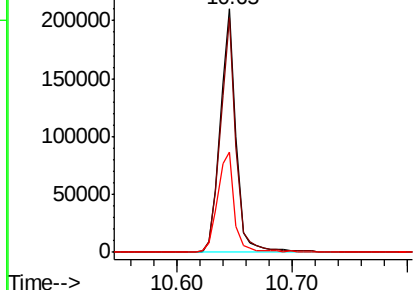
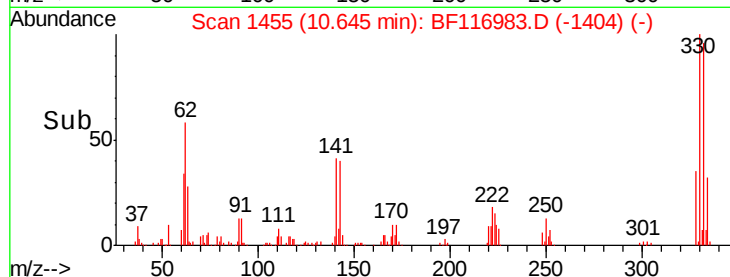


Abundance

Ion 329.80 (329.50 to 330.50): E

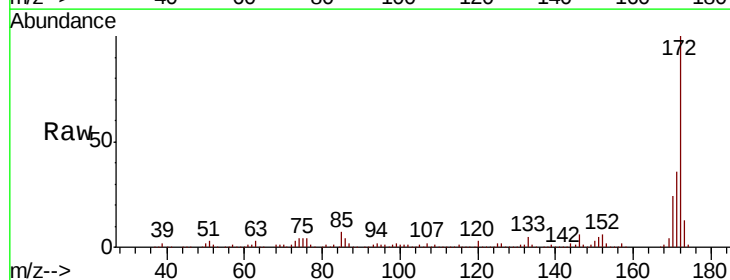
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 85.528 ng  
 RT: 9.18 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: BF116983.D  
 Acq: 12 Sep 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.1  | 43.7  |
| 170     | 24.1  | 19.2  | 28.8  |

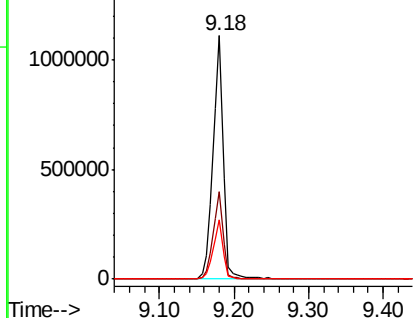
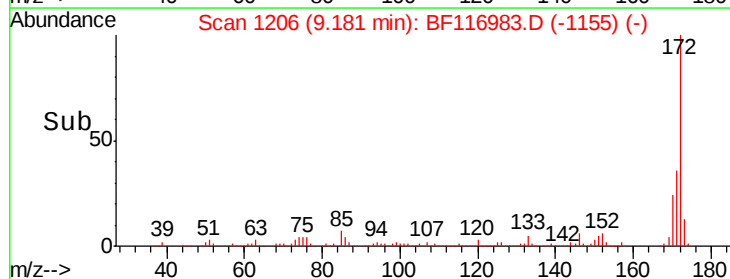


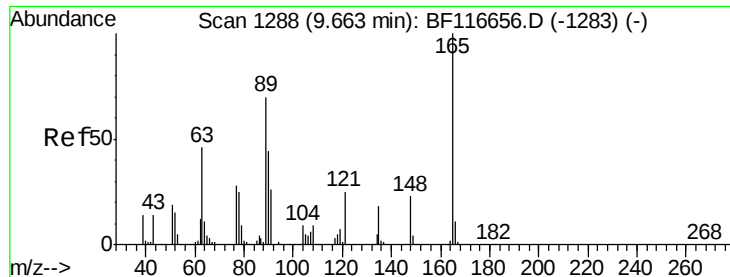
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 9.589 ng

RT: 9.86 min Scan# 1321

Delta R.T. 0.21 min

Lab File: BF116983.D

Acq: 12 Sep 2019 10:44

Instrument :

BNA\_F

ClientSampleId :

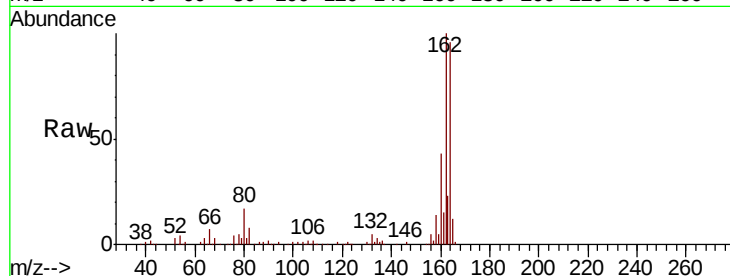
Tot Ion:165 Resp: 26371

Ion Ratio Lower Upper

165 100

63 0.0 38.0 57.0#

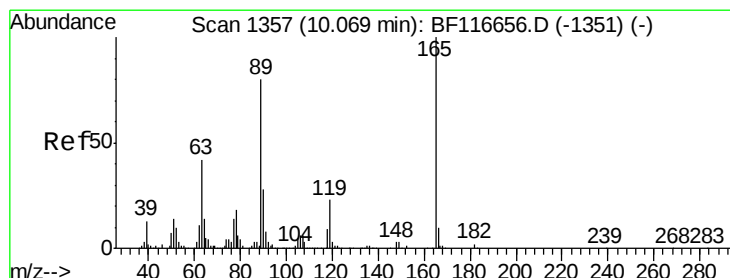
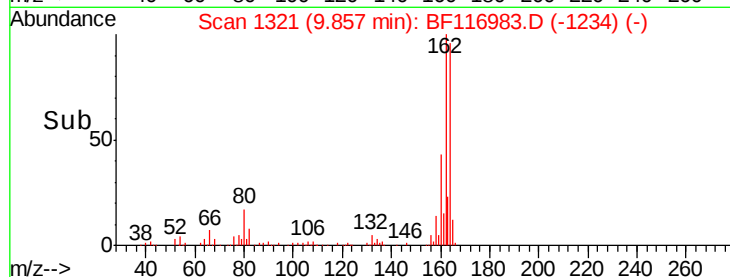
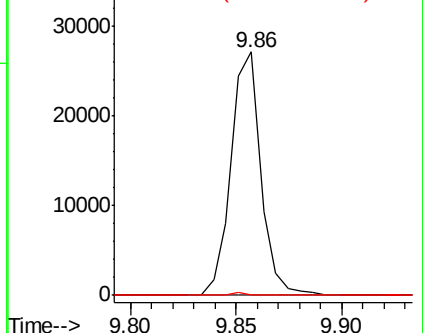
89 0.0 44.1 66.1#



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: 7.842 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.19 min

Lab File: BF116983.D

Acq: 12 Sep 2019 10:44

Tgt Ion:165 Resp: 26371

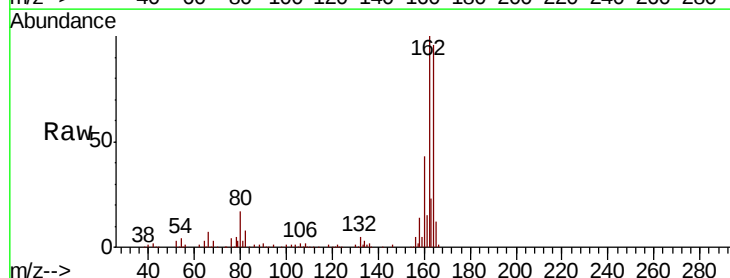
Ion Ratio Lower Upper

165 100

63 0.0 36.2 54.2#

89 0.0 66.1 99.1#

182 0.0 1.8 2.8#

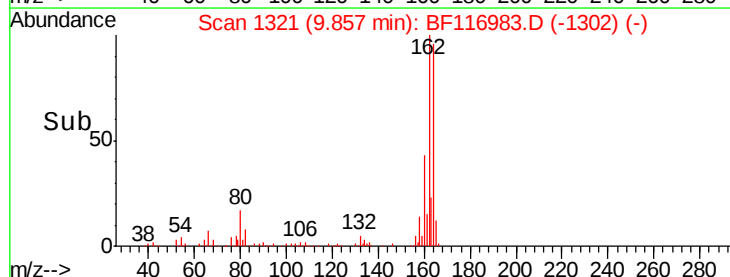
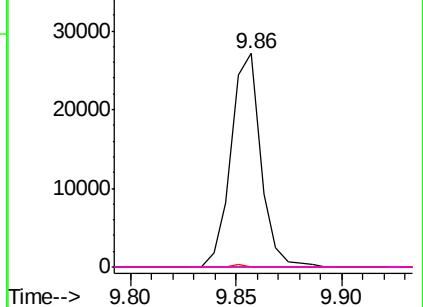


Abundance Ion 165.00 (164.70 to 165.70): E

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

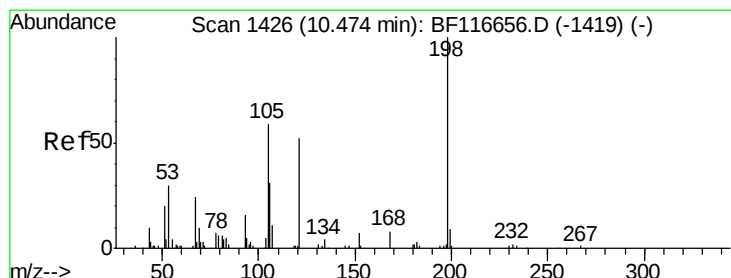
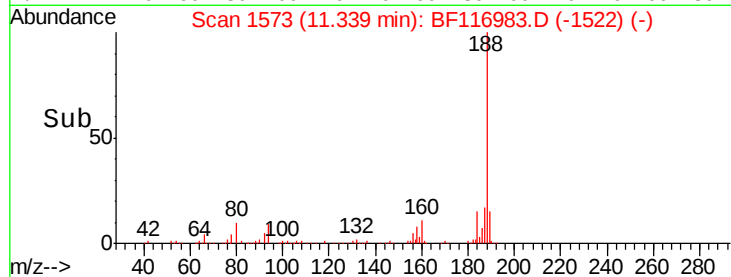
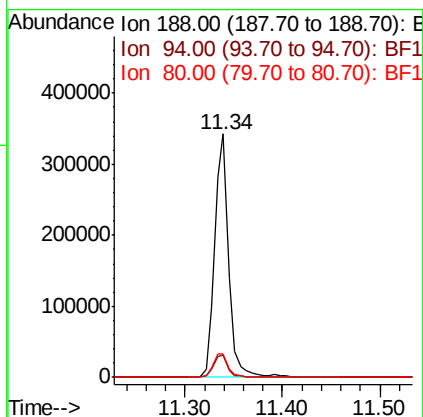
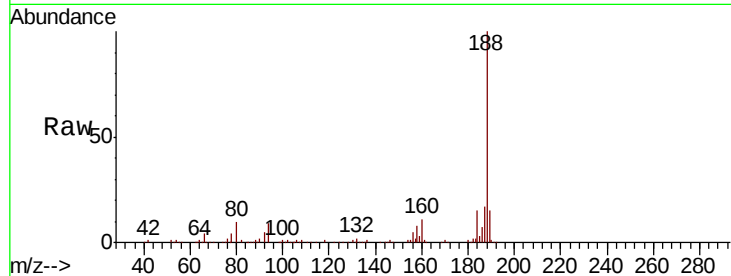




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.34 min Scan# 1573  
Delta R.T. 0.00 min  
Lab File: BF116983.D  
Acq: 12 Sep 2019 10:44

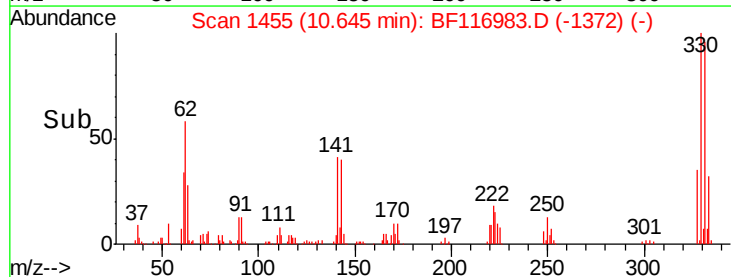
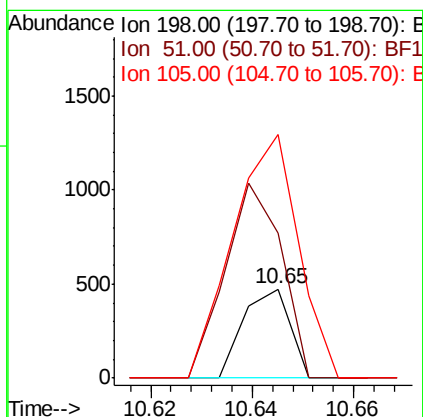
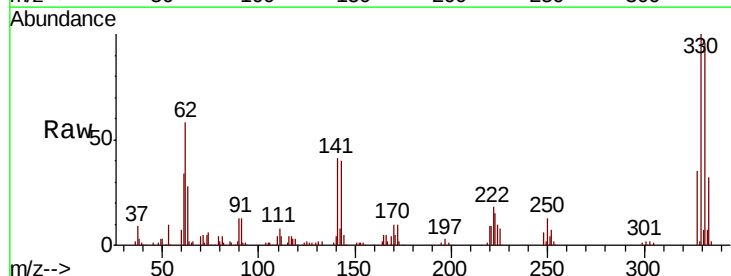
Instrument :  
BNA\_F  
ClientSampleId :

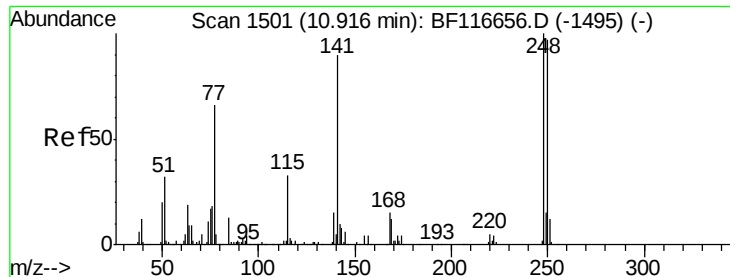
Tot Ion:188 Resp: 341401  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.4 11.2  
80 9.9 8.5 12.7



#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.653 ng  
RT: 10.65 min Scan# 1455  
Delta R.T. 0.19 min  
Lab File: BF116983.D  
Acq: 12 Sep 2019 10:44

Tgt Ion:198 Resp: 301  
Ion Ratio Lower Upper  
198 100  
51 163.3 26.3 66.3#  
105 274.4 40.0 80.0#

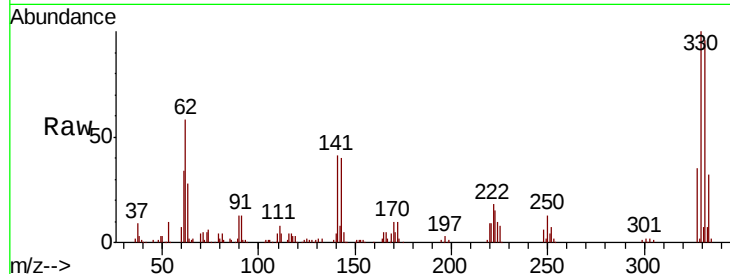




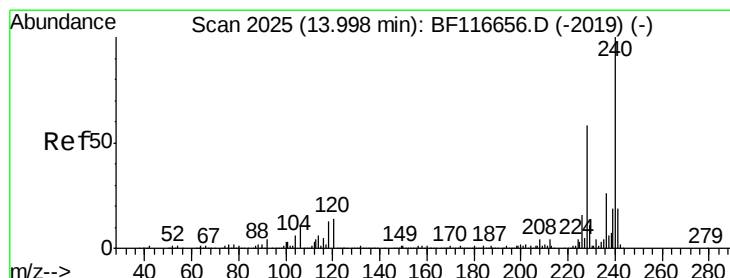
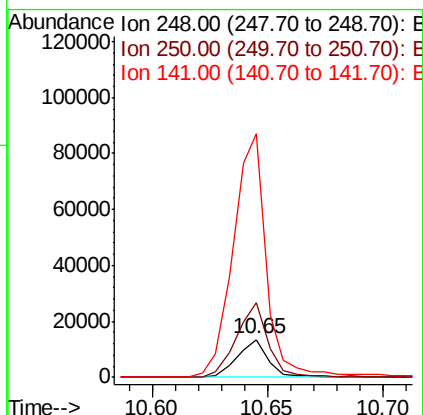
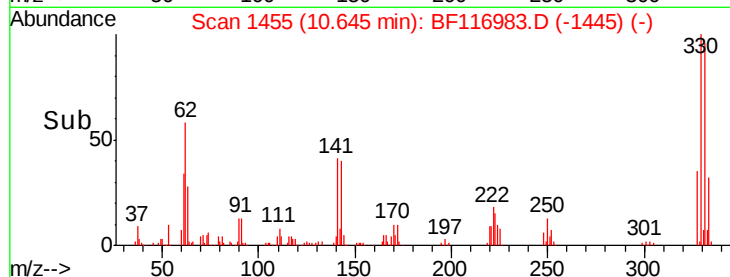
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.606 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. -0.24 min  
 Lab File: BF116983.D  
 Acq: 12 Sep 2019 10:44

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 12506  
 Ion Ratio Lower Upper  
 248 100  
 250 197.5 77.0 115.4#  
 141 646.4 70.2 105.2#

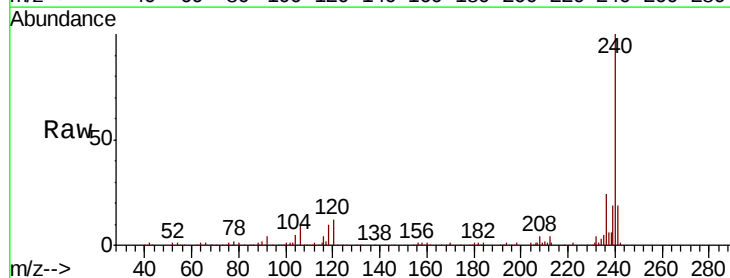


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

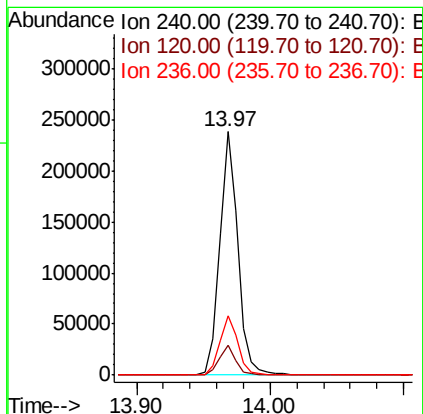
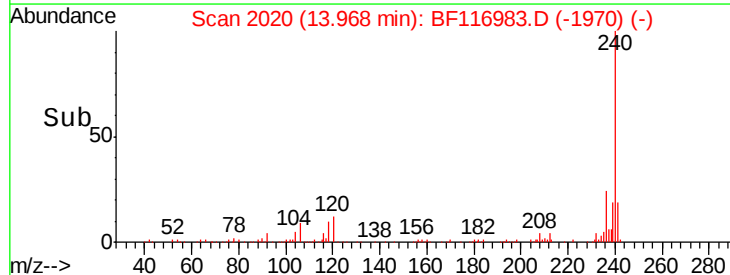


#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.97 min Scan# 2020  
 Delta R.T. -0.01 min  
 Lab File: BF116983.D  
 Acq: 12 Sep 2019 10:44

Tgt Ion:240 Resp: 229089  
 Ion Ratio Lower Upper  
 240 100  
 120 12.2 9.1 13.7  
 236 24.3 20.9 31.3



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

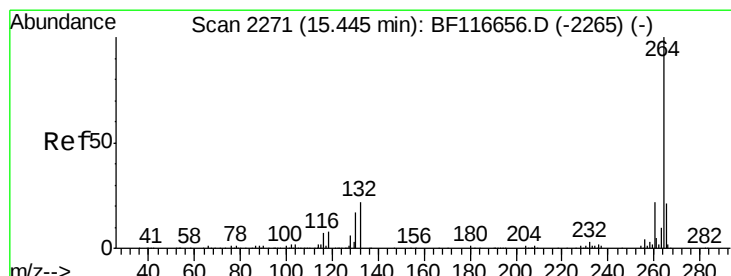
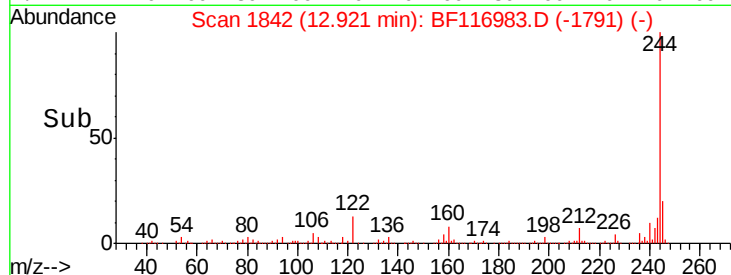
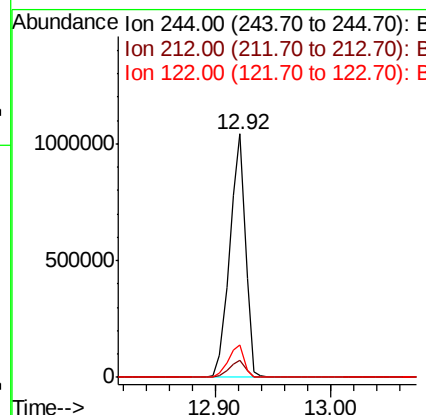
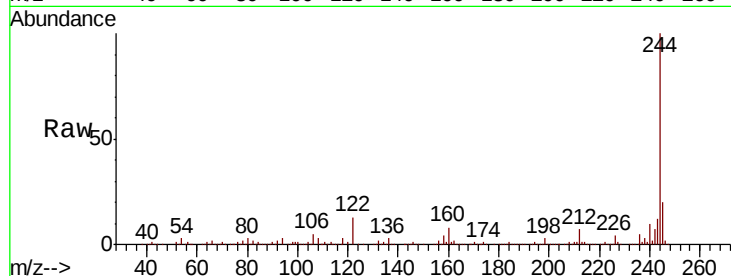




#79  
 Terphenyl-d14  
 Concen: 79.311 ng  
 RT: 12.92 min Scan# 1842  
 Delta R.T. 0.00 min  
 Lab File: BF116983.D  
 Acq: 12 Sep 2019 10:44

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:244 Resp: 982152  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.7 8.5  
 122 13.5 11.5 17.3



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2266  
 Delta R.T. 0.00 min  
 Lab File: BF116983.D  
 Acq: 12 Sep 2019 10:44

Tgt Ion:264 Resp: 187544  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.0 28.4  
 265 21.4 17.9 26.9

