```
In [1]: from SRT_control_lib_test import *
```

```
importing SRT library
```

```
In [2]: srt = Antenna()
```

```
In [3]: srt.serialport = 'ttyUSB0'
```

```
In [4]: srt.port = srt.init_com()
```

```
In [5]: srt.load_parameters('parametersV01')
```

```
azlim1 = -90.0 azlim2 = 265.0
ellim1 = 8.0 ellim2 = 85.0
loaded parameters file <module 'parametersV01' from 'parametersV01.pyc'>
```

```
In [6]: srt.stow_antenna()
```

```
Sending Antenna to Stow
azimuth at stow position
elevation at stow position
Antenna stowed, az: -90.0 el: 8.0 azcount: 0 elcount: 0
```

In [7]: `srt.azel_thread(10,30)`

```
region 123: 100
az: 10.0 azzcount: 474.074074074 el: 30 ellcount: 123.473797201
current position: az: -90.0 el: 8.0
sending:    move 3 50 received: ['M', '50', '3\r'] az: -90.0 el: 17.7071095
877
sending:    move 1 50 received: ['M', '50', '1\r'] az: -79.34765625 el: 17.
7071095877
sending:    move 3 50 received: ['M', '50', '3\r'] az: -79.34765625 el: 26.
6245371301
sending:    move 1 50 received: ['M', '50', '1\r'] az: -68.6953125 el: 26.6
245371301
sending:    move 3 20 received: ['M', '20', '3\r'] az: -68.6953125 el: 30.1
669782407
sending:    move 1 50 received: ['M', '50', '1\r'] az: -58.04296875 el: 30.
1669782407
sending:    move 2 1 received: ['M', '1', '2\r'] az: -58.04296875 el: 29.84
13606456
sending:    move 1 50 received: ['M', '50', '1\r'] az: -47.390625 el: 29.84
13606456
sending:    move 3 1 received: ['M', '1', '3\r'] az: -47.390625 el: 30.2482
621274
sending:    move 1 50 received: ['M', '50', '1\r'] az: -36.73828125 el: 30.
2482621274
sending:    move 2 2 received: ['M', '2', '2\r'] az: -36.73828125 el: 29.75
98350949
sending:    move 1 50 received: ['M', '50', '1\r'] az: -26.0859375 el: 29.7
598350949
sending:    move 3 1 received: ['M', '1', '3\r'] az: -26.0859375 el: 30.166
9782407
sending:    move 1 50 received: ['M', '50', '1\r'] az: -15.43359375 el: 30.
1669782407
sending:    move 2 1 received: ['M', '1', '2\r'] az: -15.43359375 el: 29.84
13606456
sending:    move 1 50 received: ['M', '50', '1\r'] az: -4.78125 el: 29.8413
606456
sending:    move 3 1 received: ['M', '1', '3\r'] az: -4.78125 el: 30.248262
1274
sending:    move 1 50 received: ['M', '50', '1\r'] az: 5.87109375 el: 30.24
82621274
sending:    move 2 2 received: ['M', '2', '2\r'] az: 5.87109375 el: 29.7598
350949
sending:    move 1 20 received: ['M', '20', '1\r'] az: 10.1953125 el: 29.75
98350949
sending:    move 3 1 received: ['M', '1', '3\r'] az: 10.1953125 el: 30.1669
782407
movimiento terminado
azcount: 950.0 elcount: 249.0
sending:    move 0 1 received: ['M', '1', '0\r'] az: 9.984375 el: 30.166978
2407
```

In [9]: `srt.set_freq(1420.4, '3')`

In [11]:
```
srt.spectra_thread()
```

```
1221.68889859 1221.68889859
av: 1.0 avc: 0.0
avspec 1256.92596914 1256.92471222
avspecc 0 0.0

1221.68889859 1221.68889859
av: 1.0 avc: 0.0
avspec 1256.92596914 1256.92471222
avspecc 0 0.0
freq request enviado
recibido
1217.23711294 1217.23711294
av:
```

In [9]:

In [19]:

In [ ]: