

## 2. Maximum Conducted Output Power

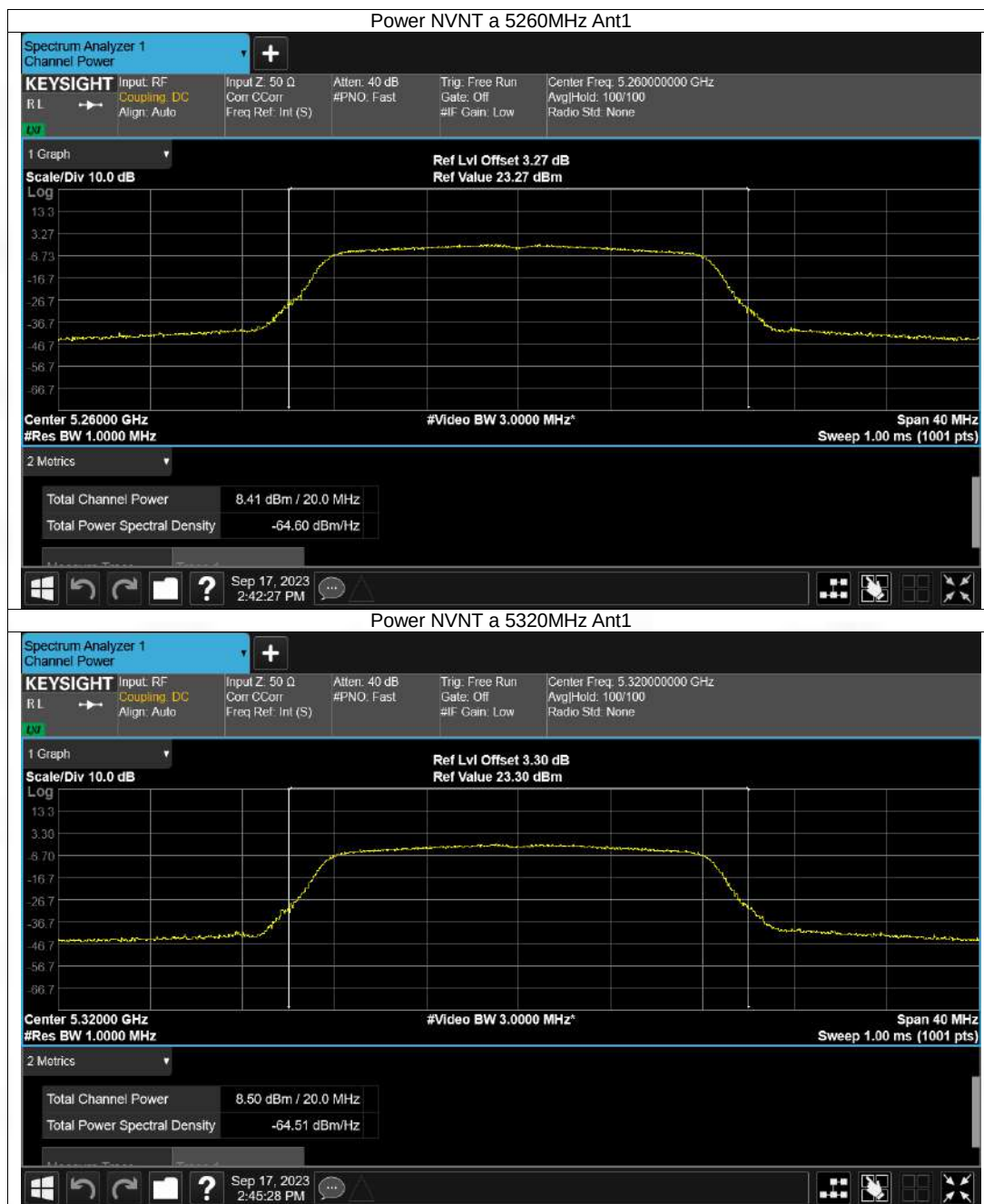
### 2.1 Power

#### 2.1.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| a    | 5180            | Ant1    | 11.1                  | 0                | 8.57              | 24          | Pass    |
| a    | 5240            | Ant1    | 11.15                 | 0                | <b>8.72</b>       | 24          | Pass    |
| a    | 5260            | Ant1    | 11.2                  | 0                | 8.41              | 24          | Pass    |
| a    | 5320            | Ant1    | 13.06                 | 0                | <b>8.5</b>        | 24          | Pass    |
| a    | 5500            | Ant1    | 12.1                  | 0                | 8.3               | 24          | Pass    |
| a    | 5700            | Ant1    | 14.25                 | 0                | <b>8.9</b>        | 24          | Pass    |
| a    | 5745            | Ant1    | 12.9                  | 0                | 8.46              | 30          | Pass    |
| a    | 5825            | Ant1    | 11.89                 | 0                | <b>8.8</b>        | 30          | Pass    |
| n20  | 5180            | Ant1    | 11.87                 | 0                | 8.29              | 24          | Pass    |
| n20  | 5240            | Ant1    | 11.42                 | 0                | 8.55              | 24          | Pass    |
| n20  | 5260            | Ant1    | 11.52                 | 0                | 8.17              | 24          | Pass    |
| n20  | 5320            | Ant1    | 13.29                 | 0                | 8.28              | 24          | Pass    |
| n20  | 5500            | Ant1    | 12.35                 | 0                | 8.13              | 24          | Pass    |
| n20  | 5700            | Ant1    | 14.68                 | 0                | 8.72              | 24          | Pass    |
| n20  | 5745            | Ant1    | 13.28                 | 0                | 8.37              | 30          | Pass    |
| n20  | 5825            | Ant1    | 12.26                 | 0                | 8.61              | 30          | Pass    |
| n40  | 5190            | Ant1    | 10.41                 | 0                | 8.02              | 24          | Pass    |
| n40  | 5230            | Ant1    | 10.09                 | 0                | 8.05              | 24          | Pass    |
| n40  | 5270            | Ant1    | 10.41                 | 0                | 7.81              | 24          | Pass    |
| n40  | 5310            | Ant1    | 11.62                 | 0                | 7.89              | 24          | Pass    |
| n40  | 5510            | Ant1    | 10.76                 | 0                | 7.84              | 24          | Pass    |
| n40  | 5670            | Ant1    | 13.21                 | 0                | 8.3               | 24          | Pass    |
| n40  | 5755            | Ant1    | 11.57                 | 0                | 8.09              | 30          | Pass    |
| n40  | 5795            | Ant1    | 10.96                 | 0                | 8.28              | 30          | Pass    |
| ac20 | 5180            | Ant1    | 11                    | 0                | 8.28              | 24          | Pass    |
| ac20 | 5240            | Ant1    | 10.54                 | 0                | 8.53              | 24          | Pass    |
| ac20 | 5260            | Ant1    | 10.62                 | 0                | 8.23              | 24          | Pass    |
| ac20 | 5320            | Ant1    | 12.35                 | 0                | 8.25              | 24          | Pass    |
| ac20 | 5500            | Ant1    | 11.4                  | 0                | 8.19              | 24          | Pass    |
| ac20 | 5700            | Ant1    | 13.71                 | 0                | 8.65              | 24          | Pass    |
| ac20 | 5745            | Ant1    | 12.36                 | 0                | 8.25              | 30          | Pass    |
| ac20 | 5825            | Ant1    | 11.38                 | 0                | 8.62              | 30          | Pass    |
| ac40 | 5190            | Ant1    | 10.43                 | 0                | 8.07              | 24          | Pass    |
| ac40 | 5230            | Ant1    | 10.12                 | 0                | 8.11              | 24          | Pass    |
| ac40 | 5270            | Ant1    | 10.34                 | 0                | 7.69              | 24          | Pass    |
| ac40 | 5310            | Ant1    | 11.56                 | 0                | 7.92              | 24          | Pass    |
| ac40 | 5510            | Ant1    | 10.74                 | 0                | 8.09              | 24          | Pass    |
| ac40 | 5670            | Ant1    | 13.21                 | 0                | 8.38              | 24          | Pass    |
| ac40 | 5755            | Ant1    | 11.57                 | 0                | 8.05              | 30          | Pass    |
| ac40 | 5795            | Ant1    | 10.93                 | 0                | 8.36              | 30          | Pass    |
| ac80 | 5210            | Ant1    | 9.97                  | 0                | 7.72              | 24          | Pass    |
| ac80 | 5290            | Ant1    | 10.75                 | 0                | 7.58              | 24          | Pass    |
| ac80 | 5530            | Ant1    | 10.79                 | 0                | 8                 | 24          | Pass    |
| ac80 | 5610            | Ant1    | 11.95                 | 0                | 7.4               | 24          | Pass    |
| ac80 | 5775            | Ant1    | 11.01                 | 0                | 7.84              | 30          | Pass    |

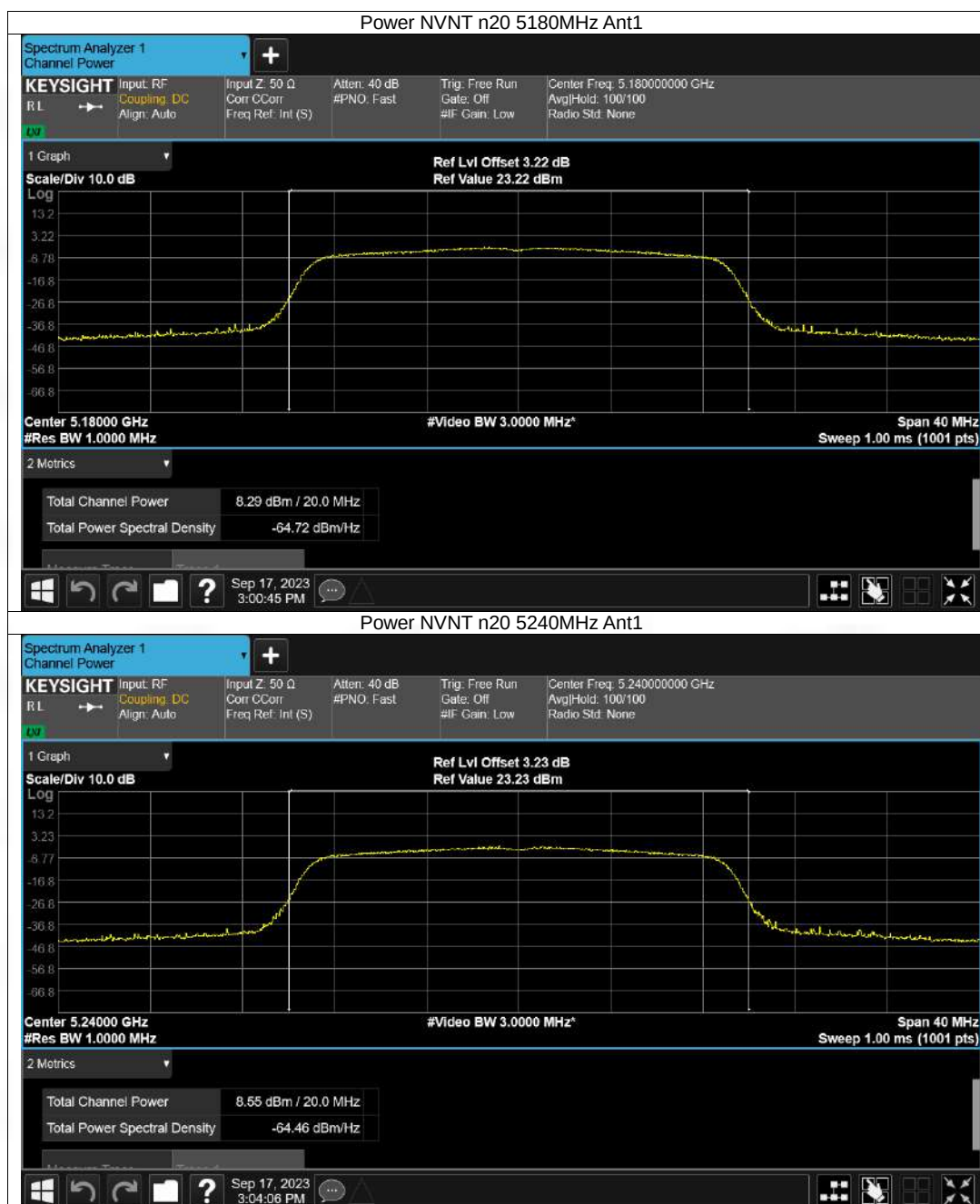
#### 2.1.2 Test Graph











































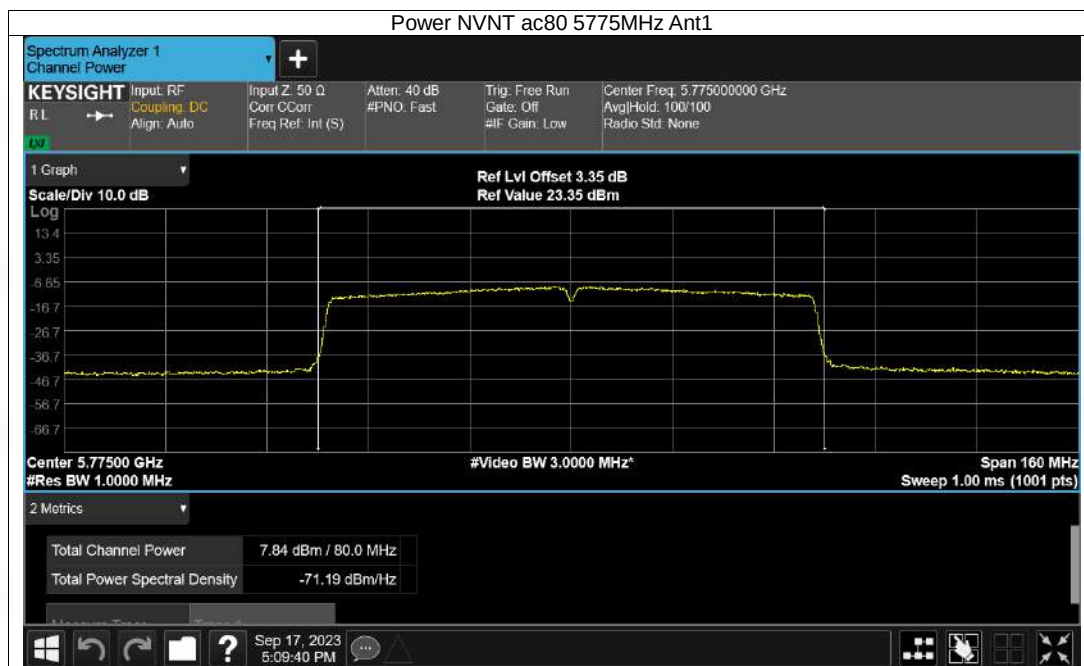












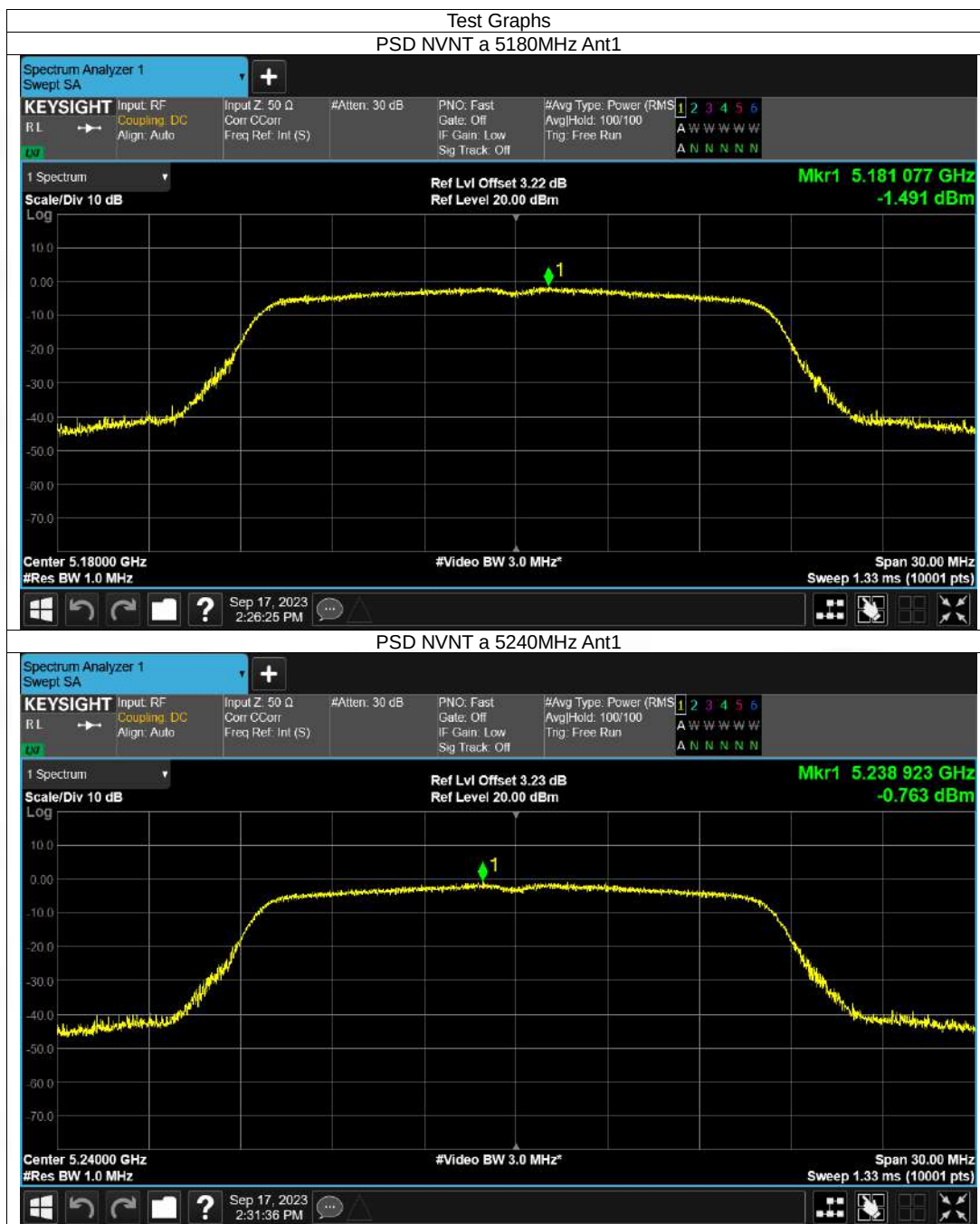
### 3. Maximum Power Spectral Density

#### 3.1 PSD

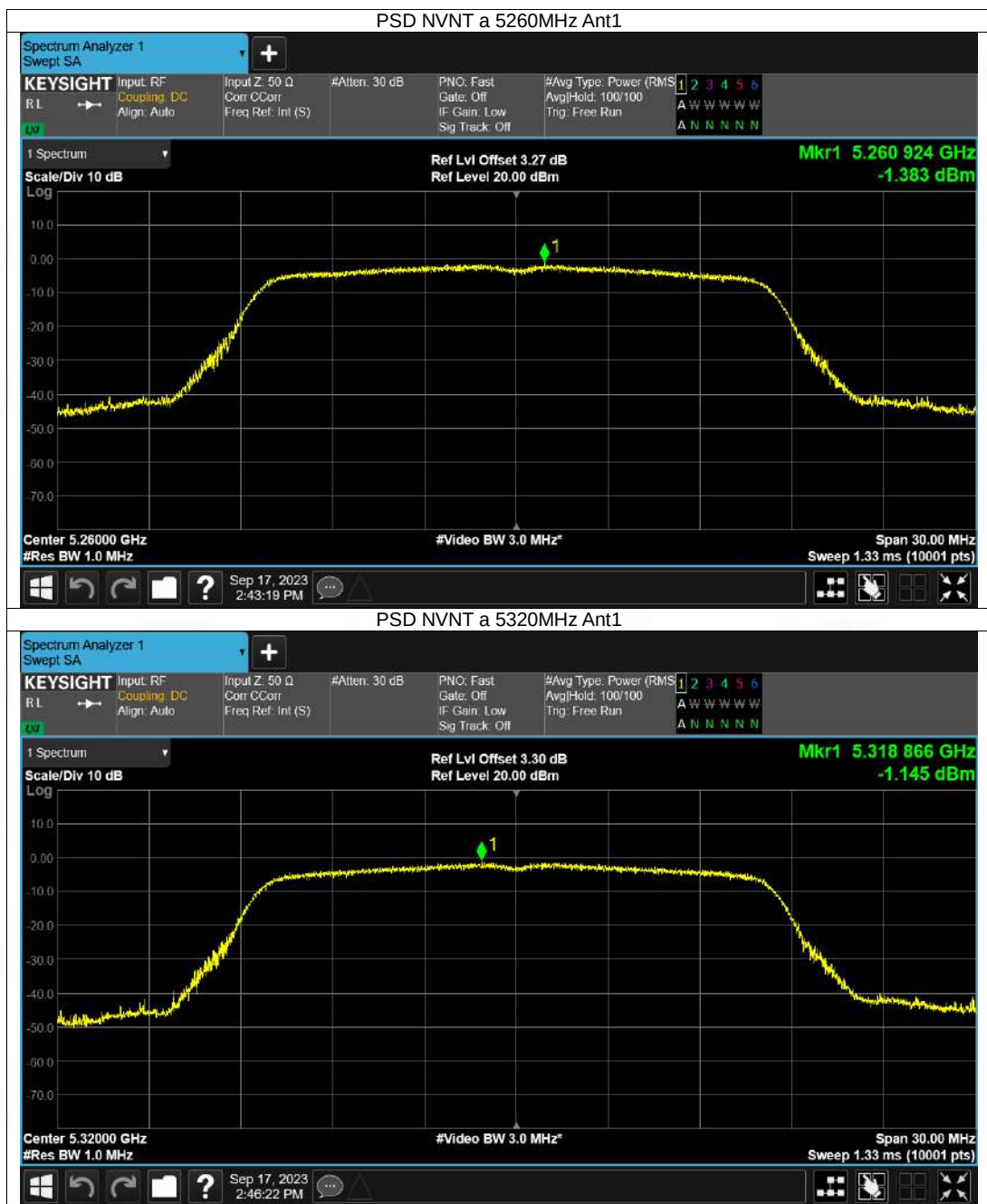
##### 3.1.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| a    | 5180            | Ant1    | 1.26                | 0                | -1.49           | 11          | Pass    |
| a    | 5240            | Ant1    | 1.41                | 0                | -0.76           | 11          | Pass    |
| a    | 5260            | Ant1    | 1.49                | 0                | -1.38           | 11          | Pass    |
| a    | 5320            | Ant1    | 3.63                | 0                | -1.15           | 11          | Pass    |
| a    | 5500            | Ant1    | 2.47                | 0                | -1.1            | 11          | Pass    |
| a    | 5700            | Ant1    | 4.39                | 0                | -1.14           | 11          | Pass    |
| a    | 5745            | Ant1    | 0.13                | 0                | -4.43           | 30          | Pass    |
| a    | 5825            | Ant1    | -0.84               | 0                | -3.63           | 30          | Pass    |
| n20  | 5180            | Ant1    | 2.13                | 0                | -1.66           | 11          | Pass    |
| n20  | 5240            | Ant1    | 1.39                | 0                | -1.25           | 11          | Pass    |
| n20  | 5260            | Ant1    | 1.68                | 0                | -1.89           | 11          | Pass    |
| n20  | 5320            | Ant1    | 3.43                | 0                | -1.63           | 11          | Pass    |
| n20  | 5500            | Ant1    | 2.58                | 0                | -1.74           | 11          | Pass    |
| n20  | 5700            | Ant1    | 4.55                | 0                | -1.55           | 11          | Pass    |
| n20  | 5745            | Ant1    | 0.02                | 0                | -4.87           | 30          | Pass    |
| n20  | 5825            | Ant1    | -0.74               | 0                | -4.53           | 30          | Pass    |
| n40  | 5190            | Ant1    | -2.38               | 0                | -4.73           | 11          | Pass    |
| n40  | 5230            | Ant1    | -2.44               | 0                | -4.72           | 11          | Pass    |
| n40  | 5270            | Ant1    | -2.09               | 0                | -4.97           | 11          | Pass    |
| n40  | 5310            | Ant1    | -1.39               | 0                | -4.97           | 11          | Pass    |
| n40  | 5510            | Ant1    | -2.09               | 0                | -4.7            | 11          | Pass    |
| n40  | 5670            | Ant1    | 0.25                | 0                | -4.39           | 11          | Pass    |
| n40  | 5755            | Ant1    | -4.41               | 0                | -7.65           | 30          | Pass    |
| n40  | 5795            | Ant1    | -4.71               | 0                | -7.47           | 30          | Pass    |
| ac20 | 5180            | Ant1    | 0.88                | 0                | -1.83           | 11          | Pass    |
| ac20 | 5240            | Ant1    | 0.63                | 0                | -1.25           | 11          | Pass    |
| ac20 | 5260            | Ant1    | 0.96                | 0                | -1.64           | 11          | Pass    |
| ac20 | 5320            | Ant1    | 2.57                | 0                | -1.79           | 11          | Pass    |
| ac20 | 5500            | Ant1    | 1.66                | 0                | -1.68           | 11          | Pass    |
| ac20 | 5700            | Ant1    | 3.57                | 0                | -1.25           | 11          | Pass    |
| ac20 | 5745            | Ant1    | -0.68               | 0                | -4.89           | 30          | Pass    |
| ac20 | 5825            | Ant1    | -1.81               | 0                | -4.58           | 30          | Pass    |
| ac40 | 5190            | Ant1    | -2.24               | 0                | -4.75           | 11          | Pass    |
| ac40 | 5230            | Ant1    | -2.12               | 0                | -4.51           | 11          | Pass    |
| ac40 | 5270            | Ant1    | -2.14               | 0                | -5.07           | 11          | Pass    |
| ac40 | 5310            | Ant1    | -1.19               | 0                | -4.82           | 11          | Pass    |
| ac40 | 5510            | Ant1    | -1.98               | 0                | -4.69           | 11          | Pass    |
| ac40 | 5670            | Ant1    | 0.38                | 0                | -4.11           | 11          | Pass    |
| ac40 | 5755            | Ant1    | -4.46               | 0                | -7.91           | 30          | Pass    |
| ac40 | 5795            | Ant1    | -5.02               | 0                | -7.45           | 30          | Pass    |
| ac80 | 5210            | Ant1    | -5.88               | 0                | -8.58           | 11          | Pass    |
| ac80 | 5290            | Ant1    | -4.76               | 0                | -8.31           | 11          | Pass    |
| ac80 | 5530            | Ant1    | -4.77               | 0                | -7.68           | 11          | Pass    |
| ac80 | 5610            | Ant1    | -3.62               | 0                | -8.38           | 11          | Pass    |
| ac80 | 5775            | Ant1    | -7.53               | 0                | -11.12          | 30          | Pass    |

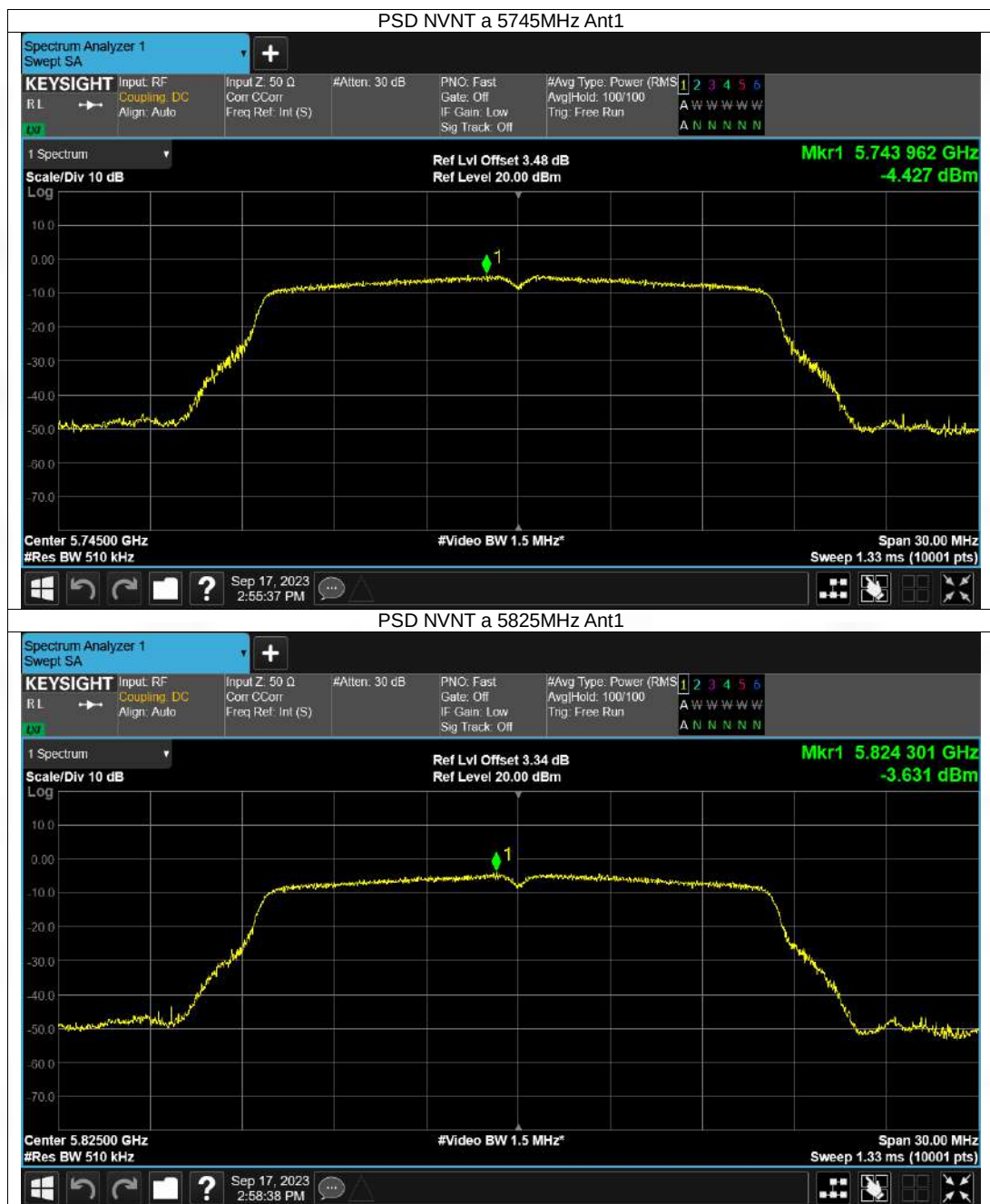
##### 3.1.2 Test Graph

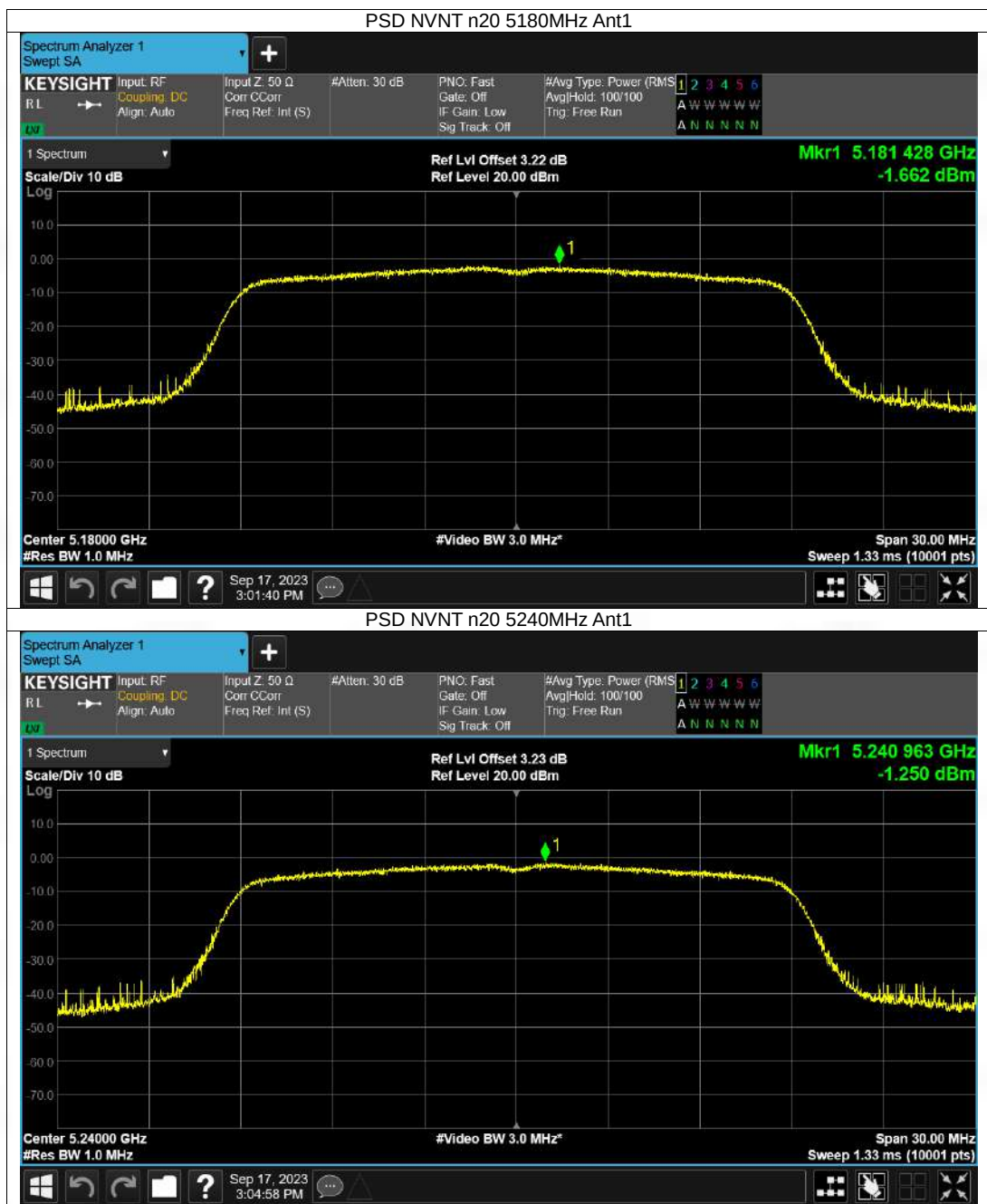


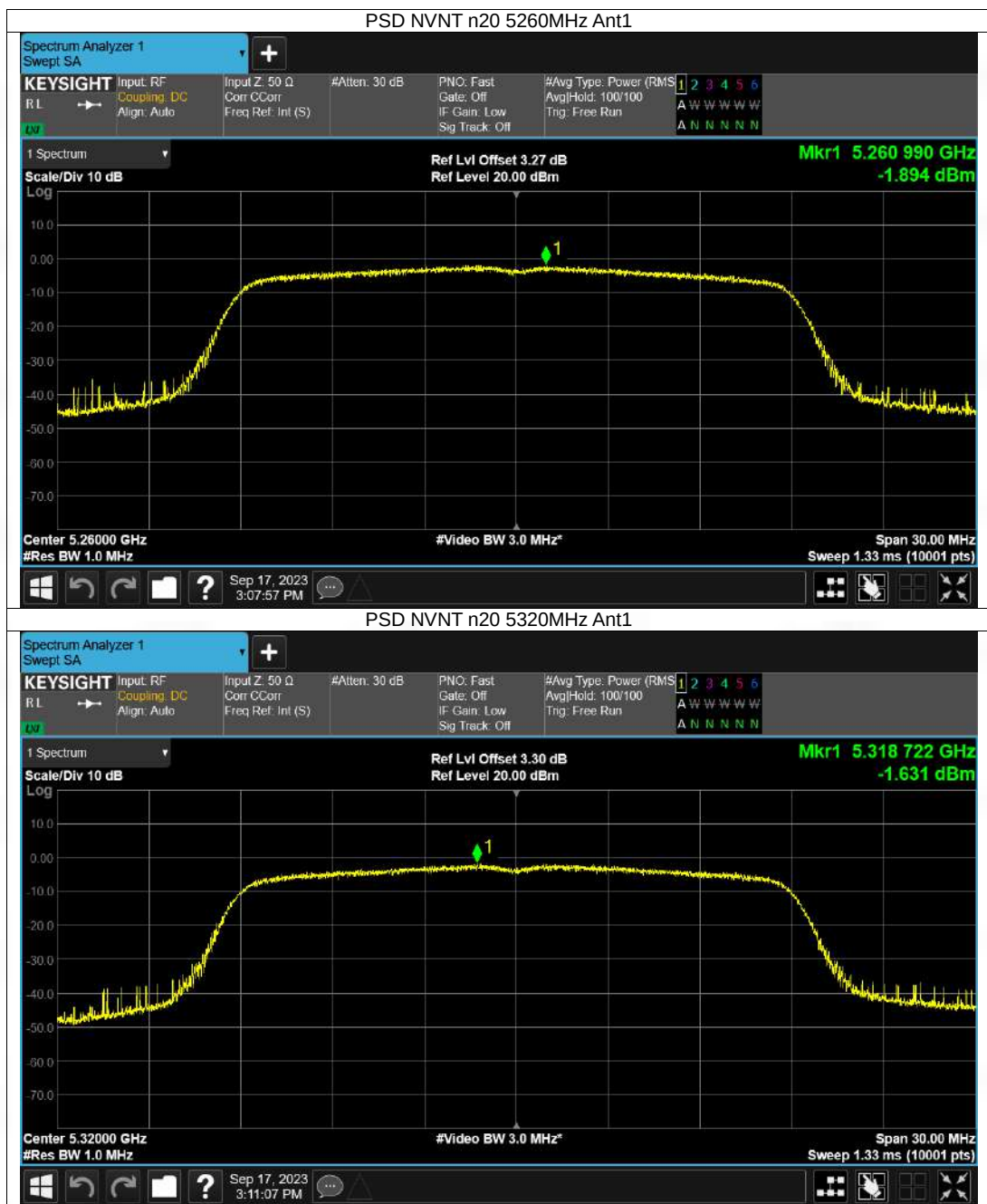




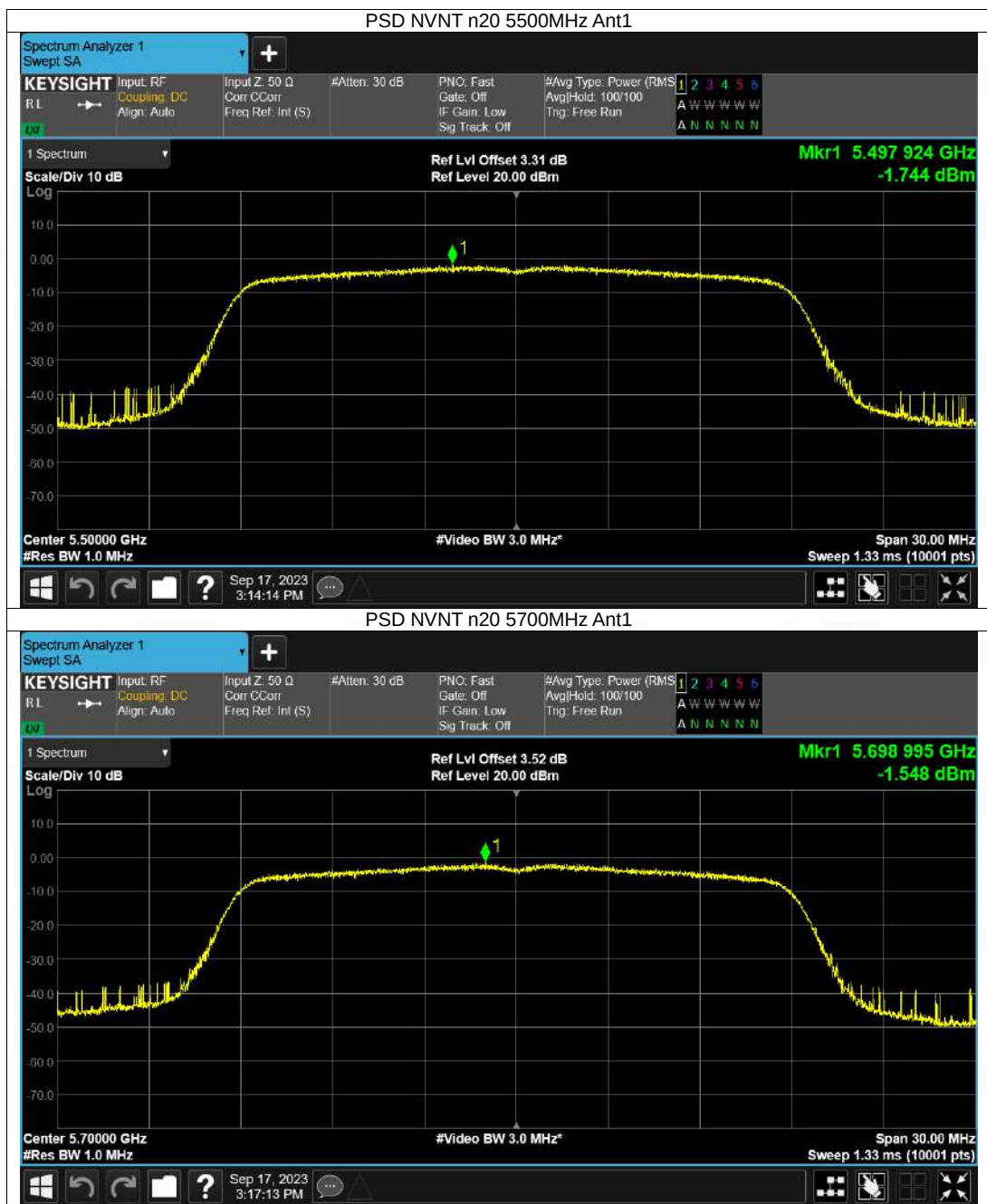




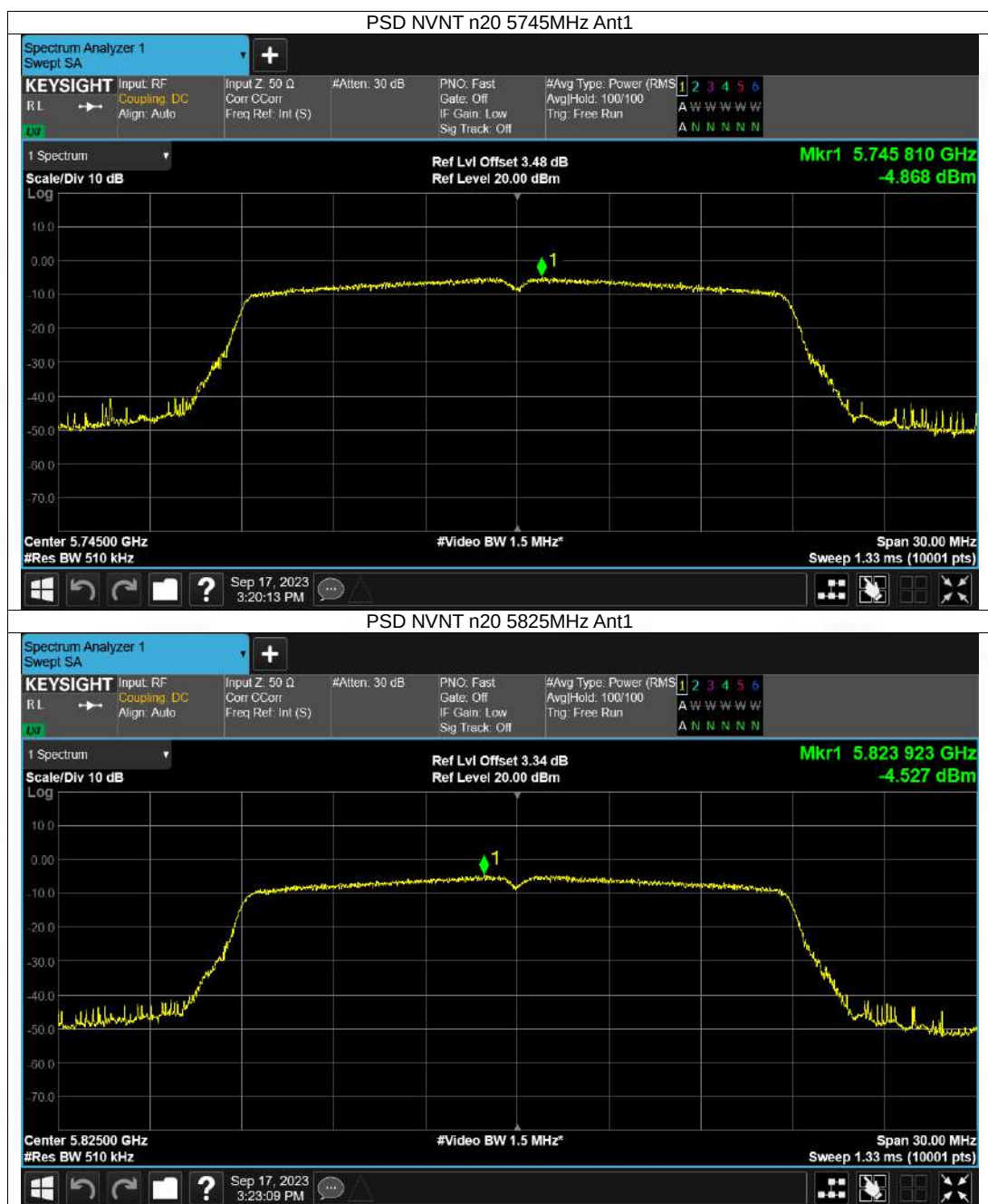


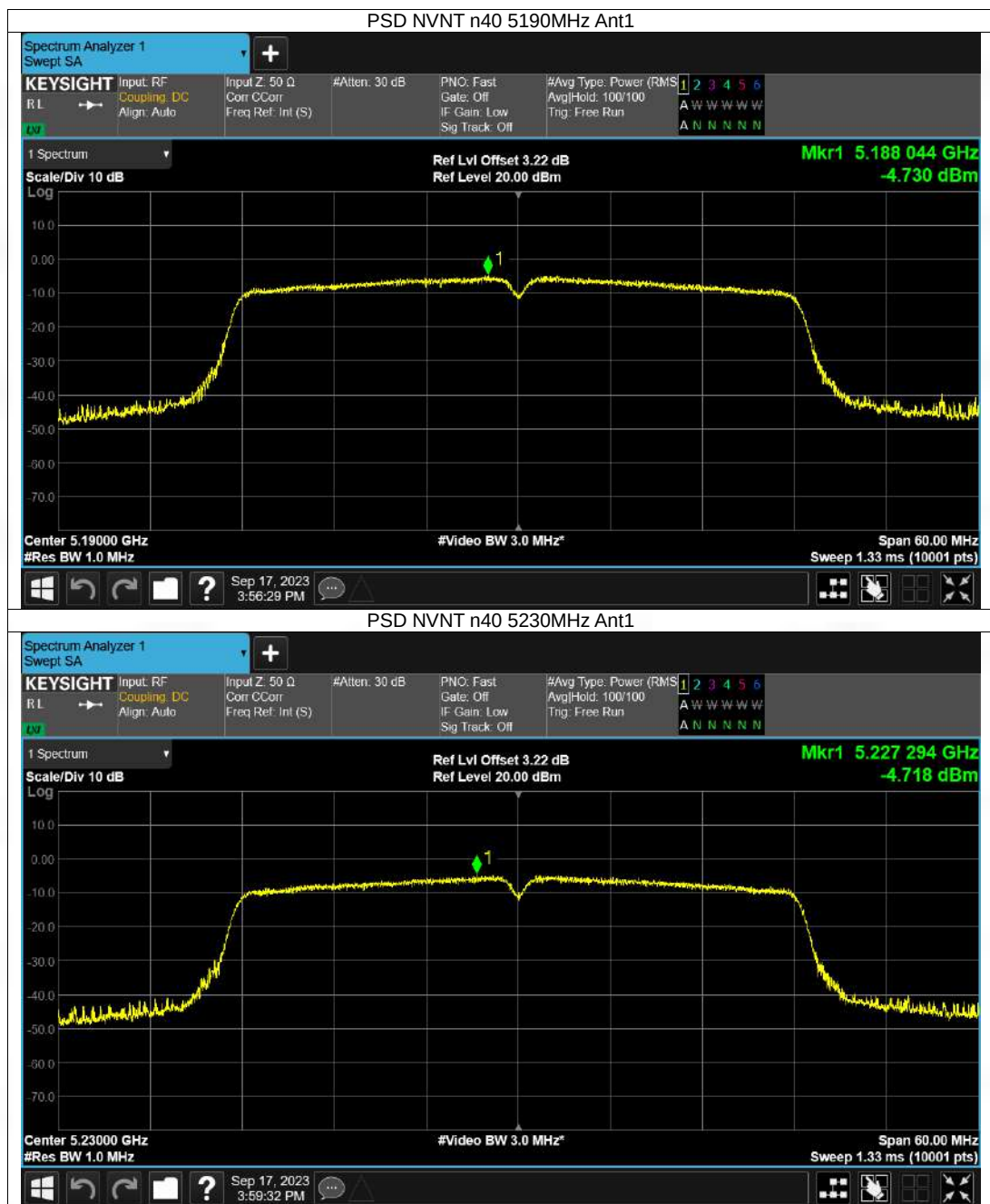


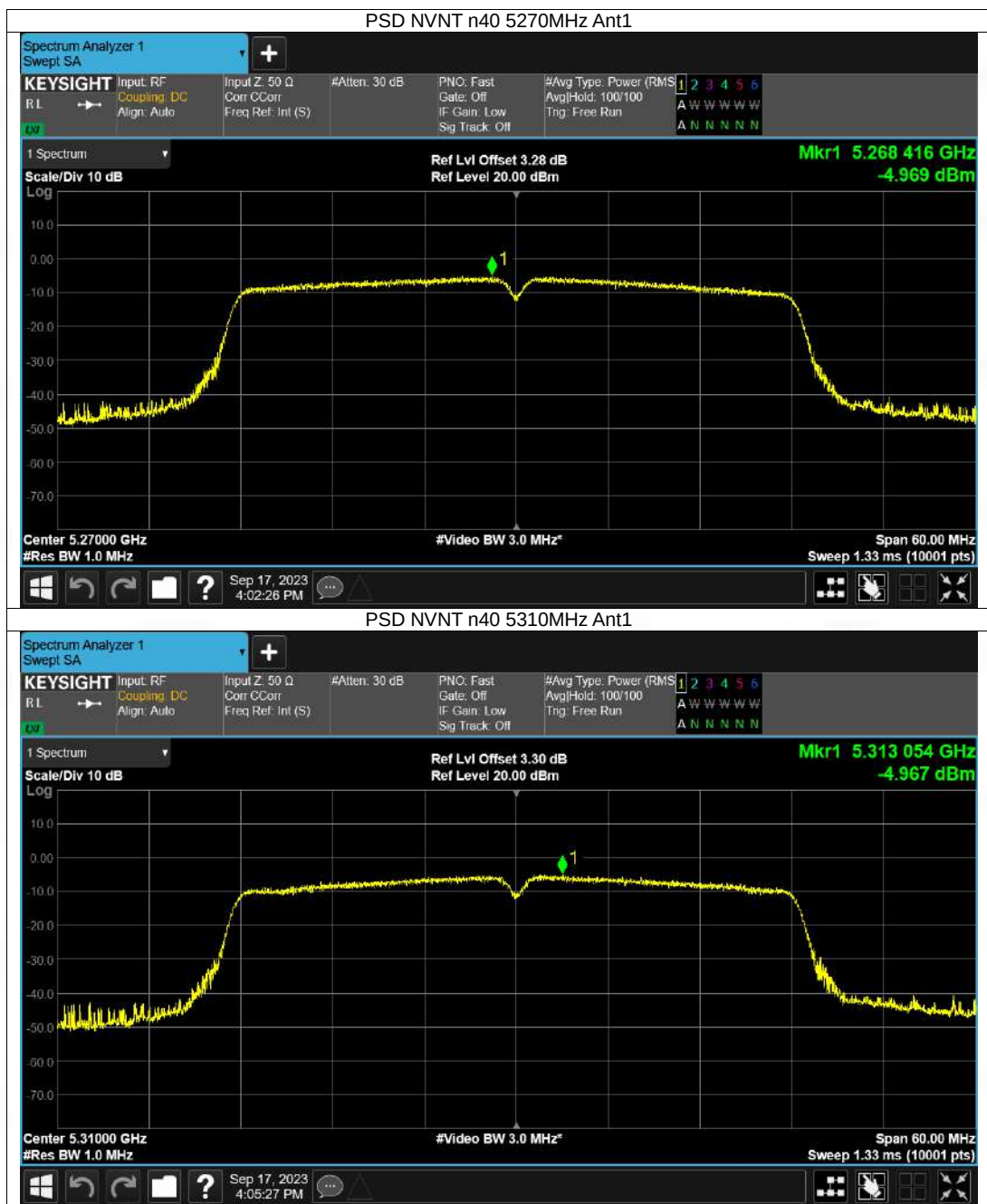


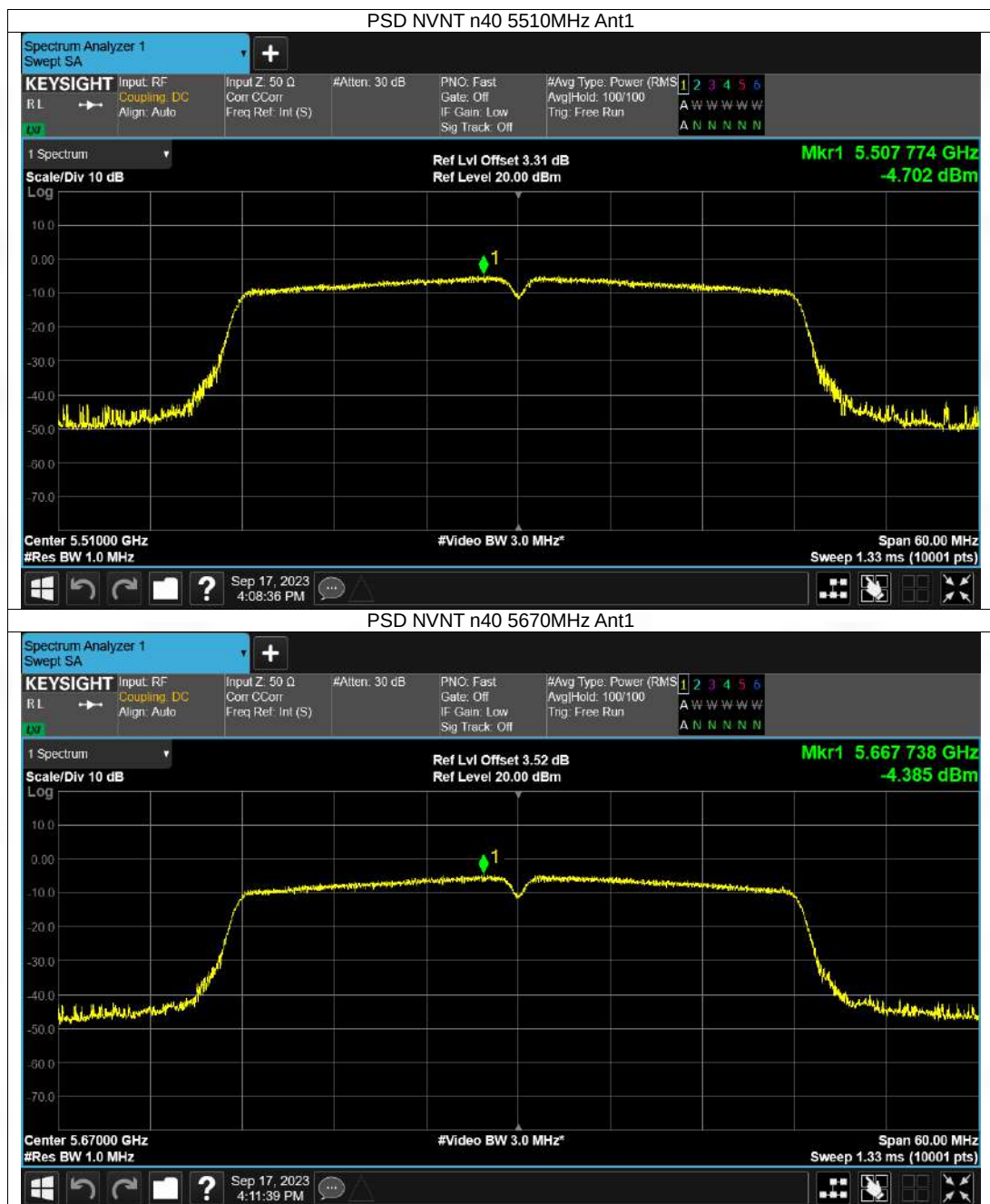


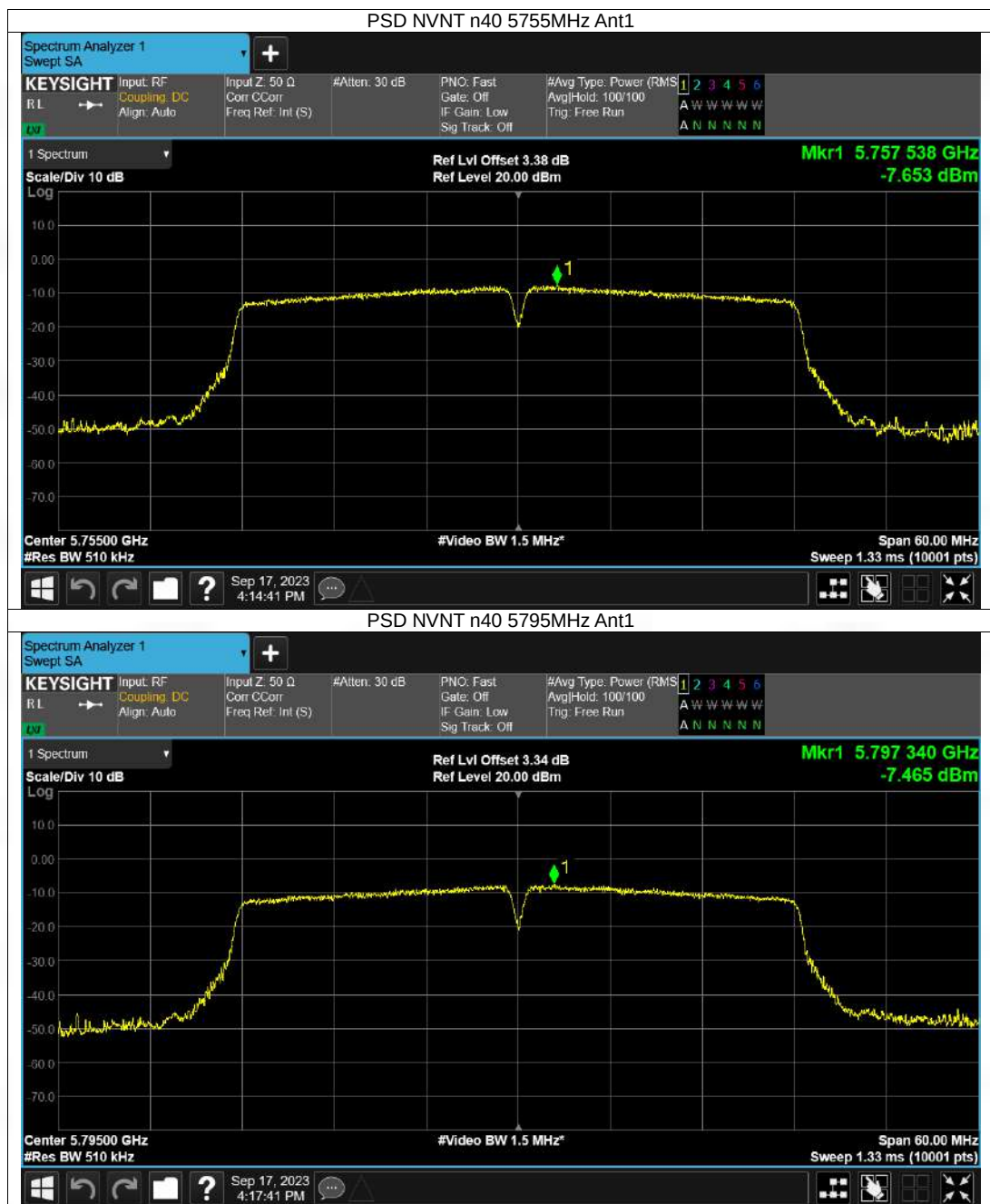




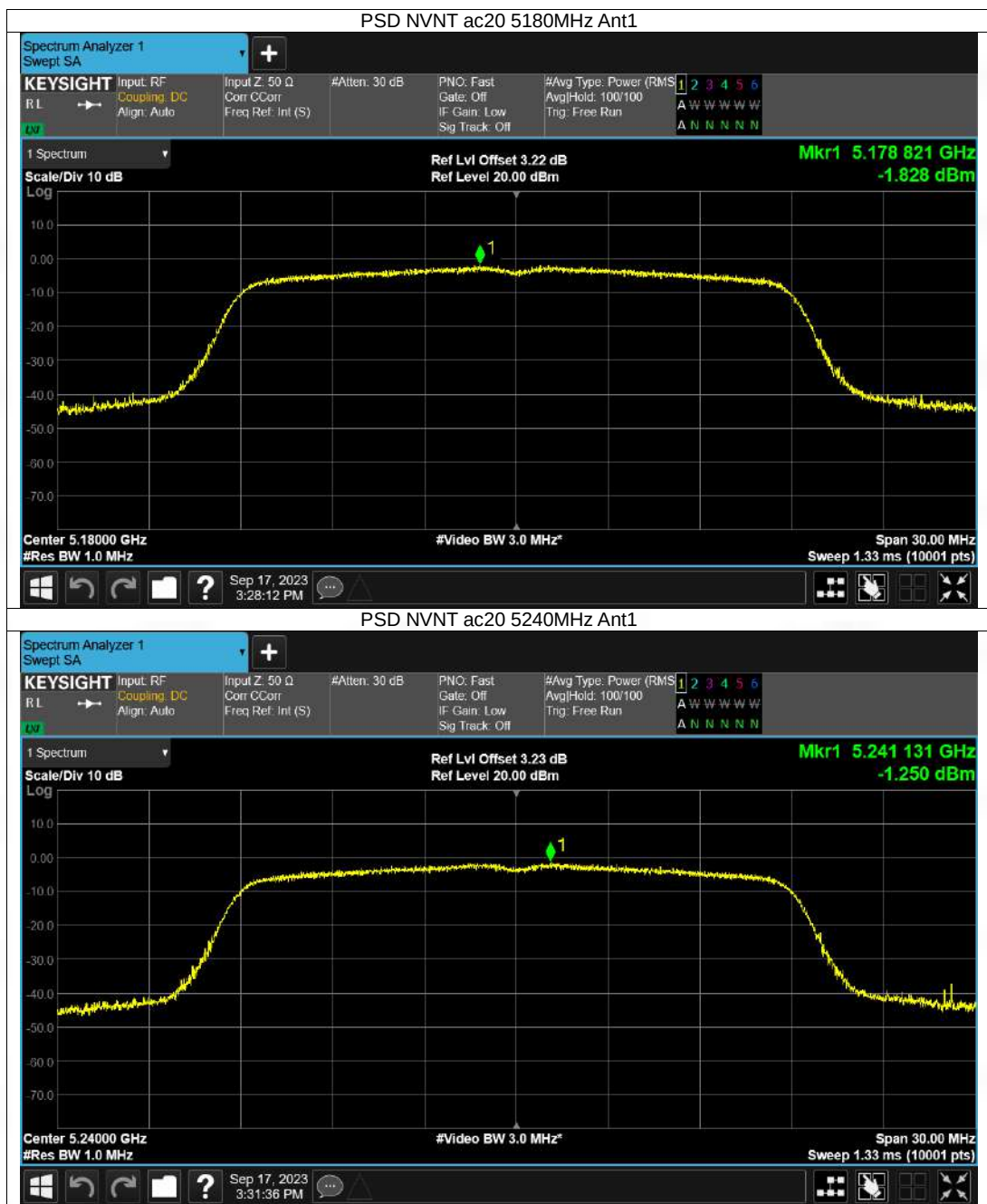




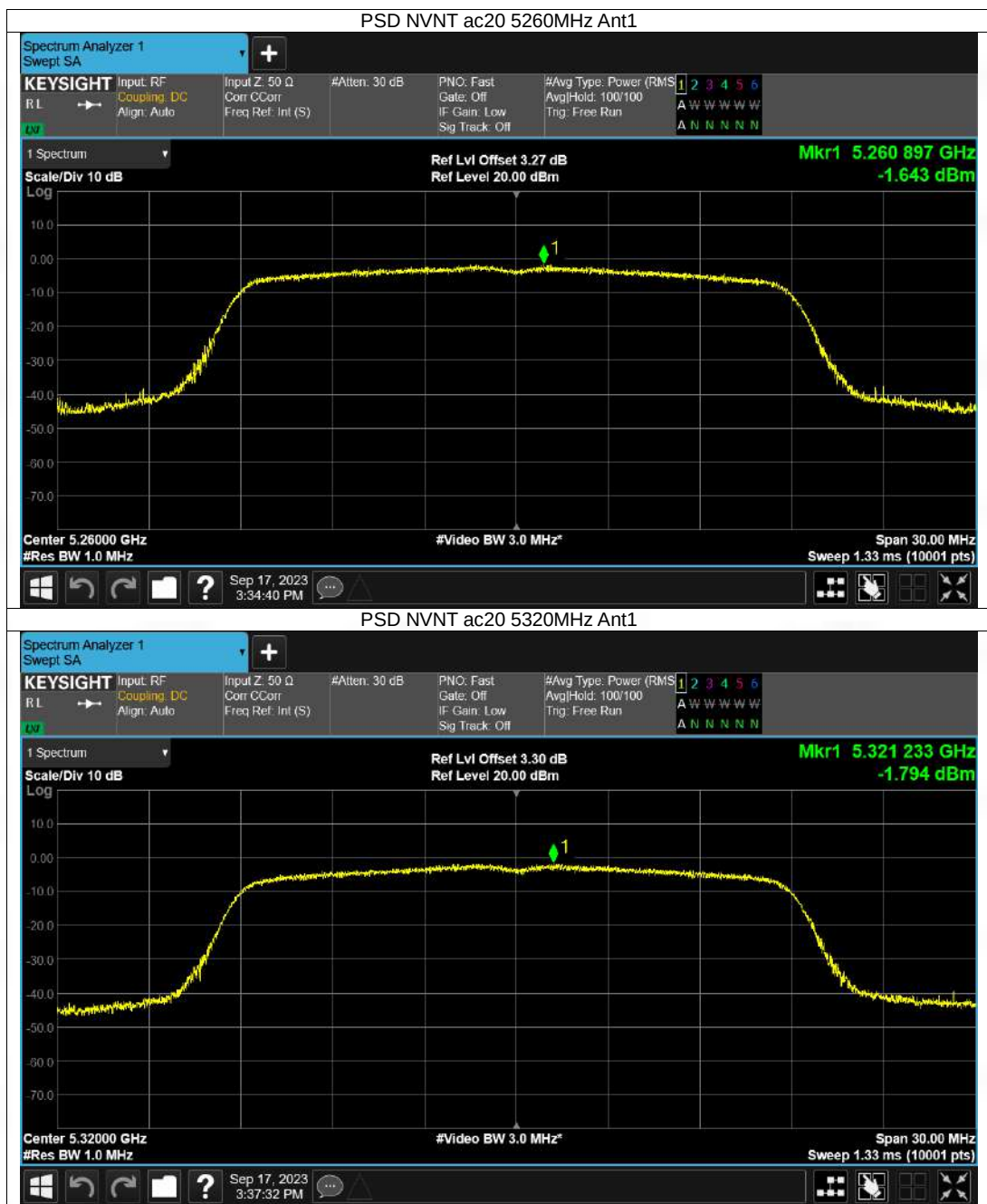


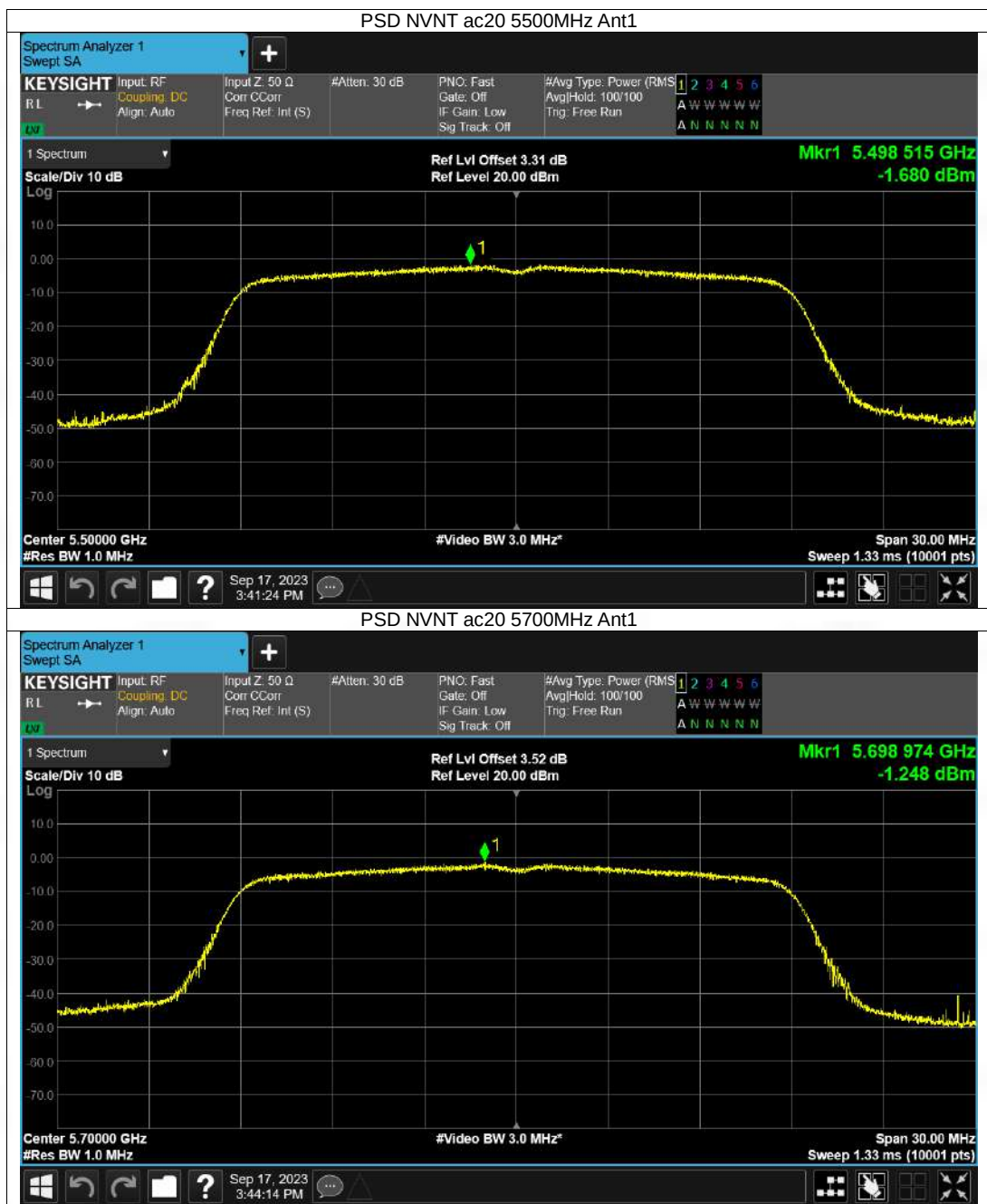


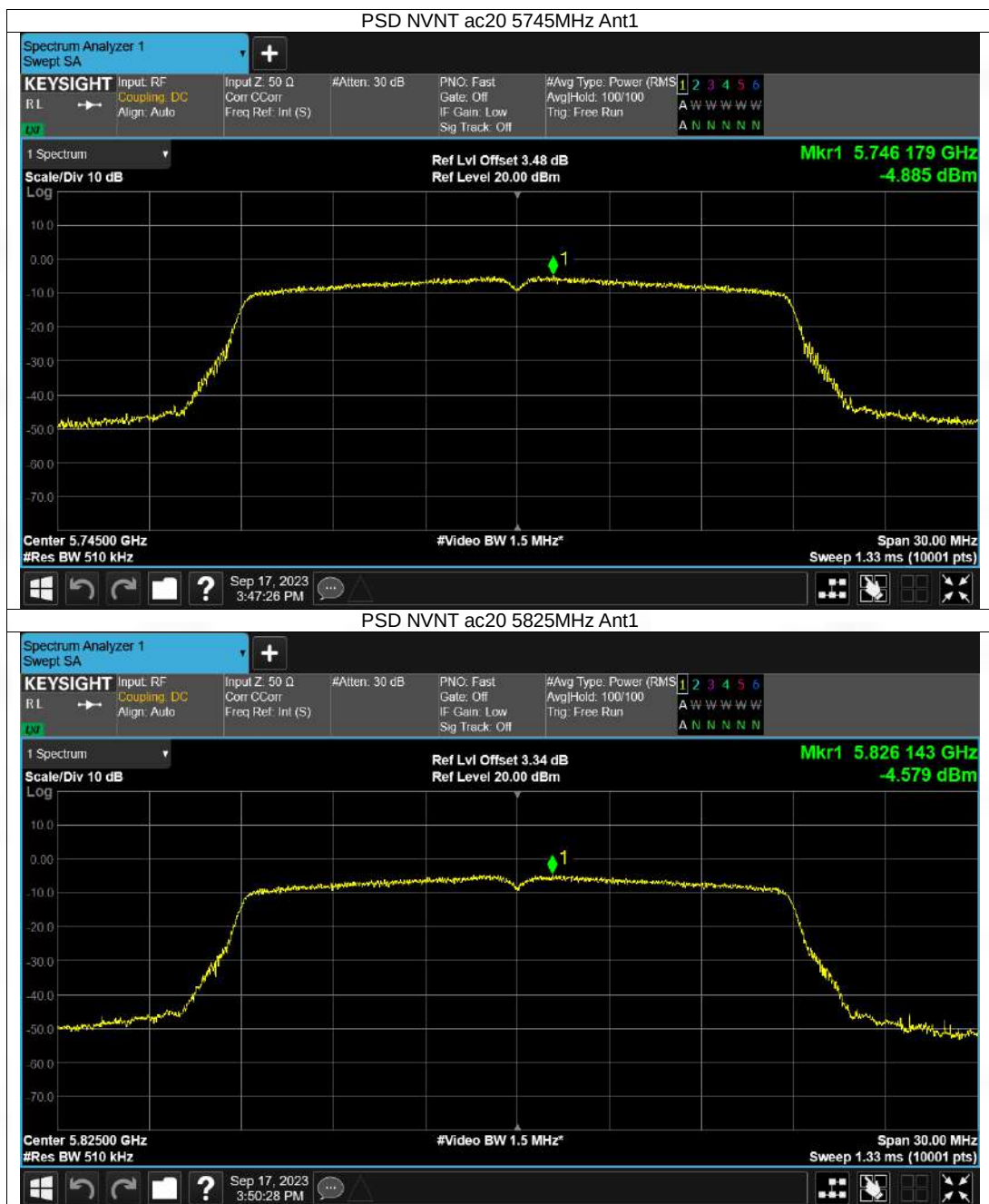


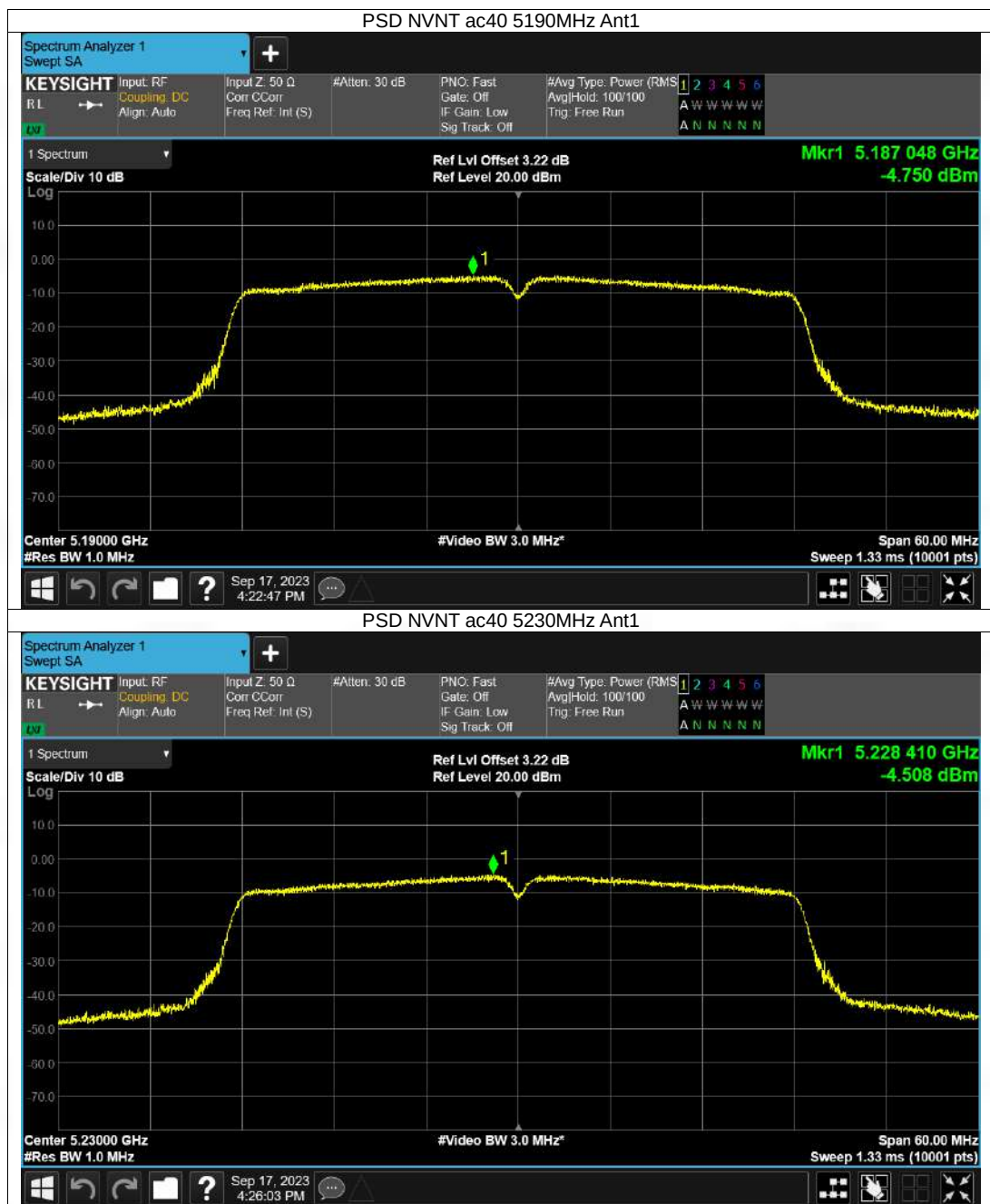


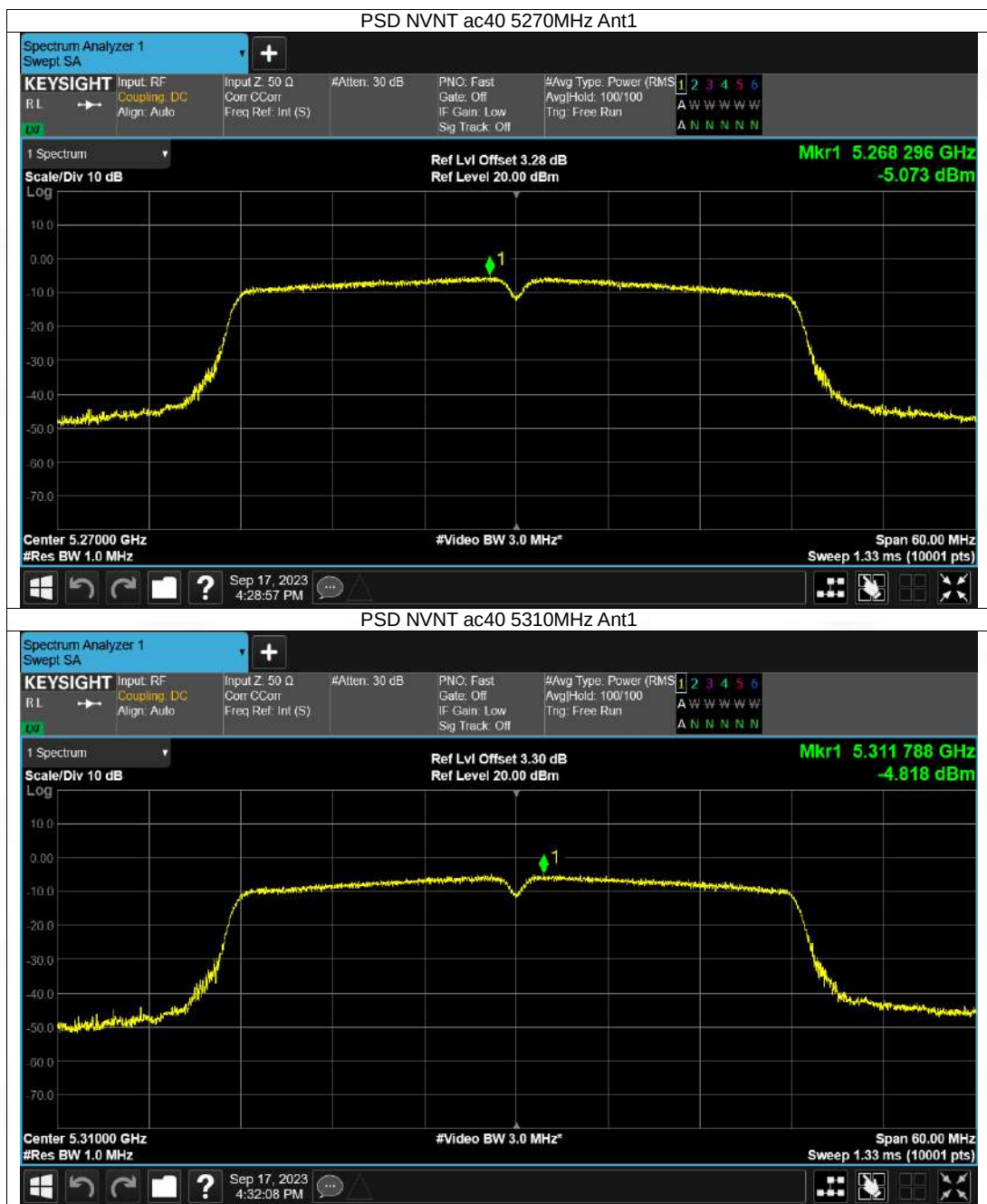




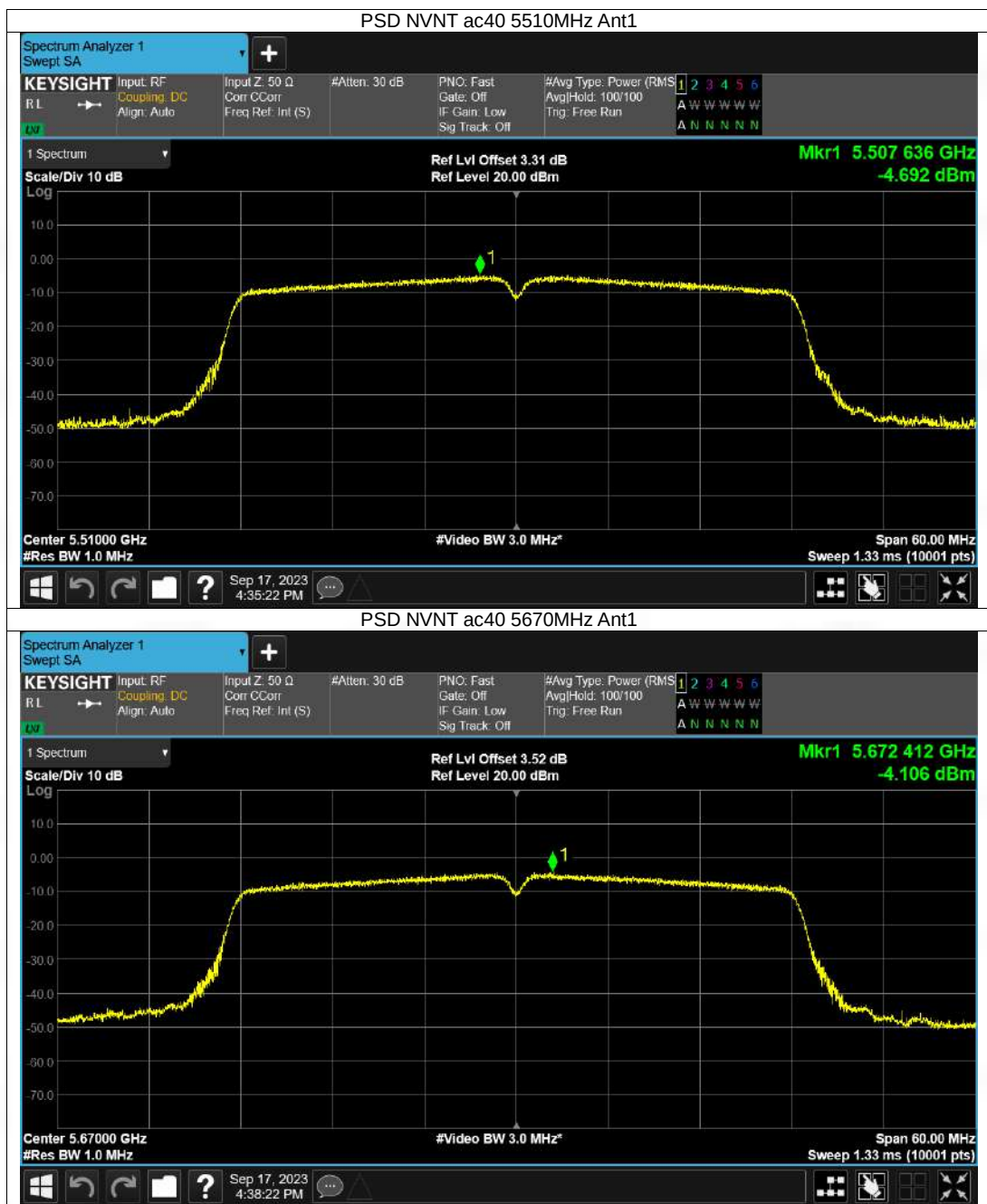




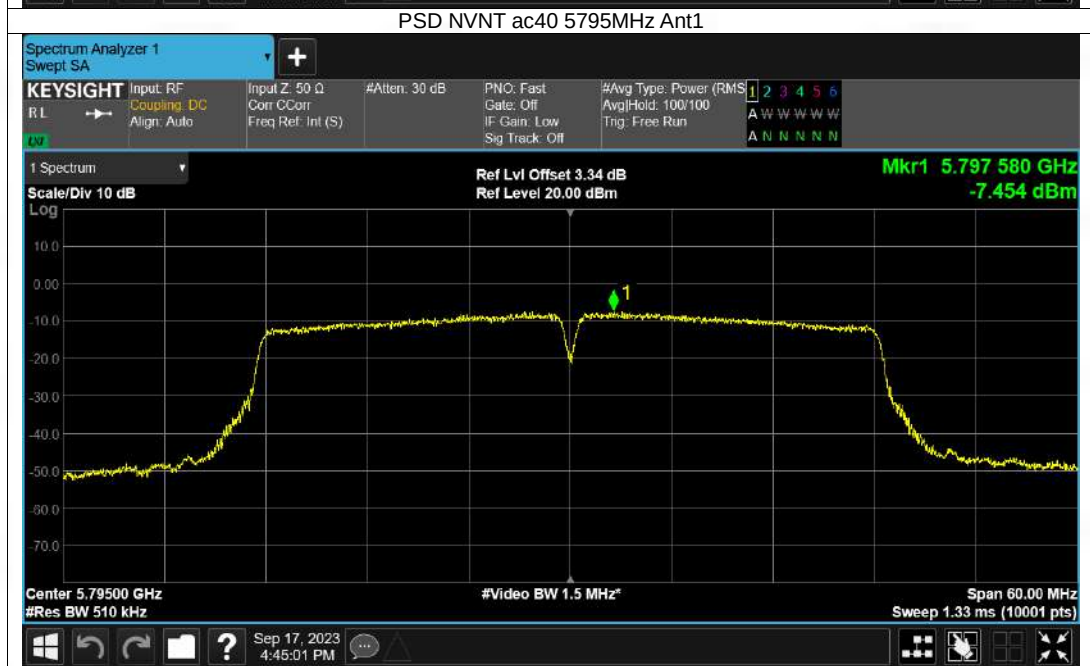
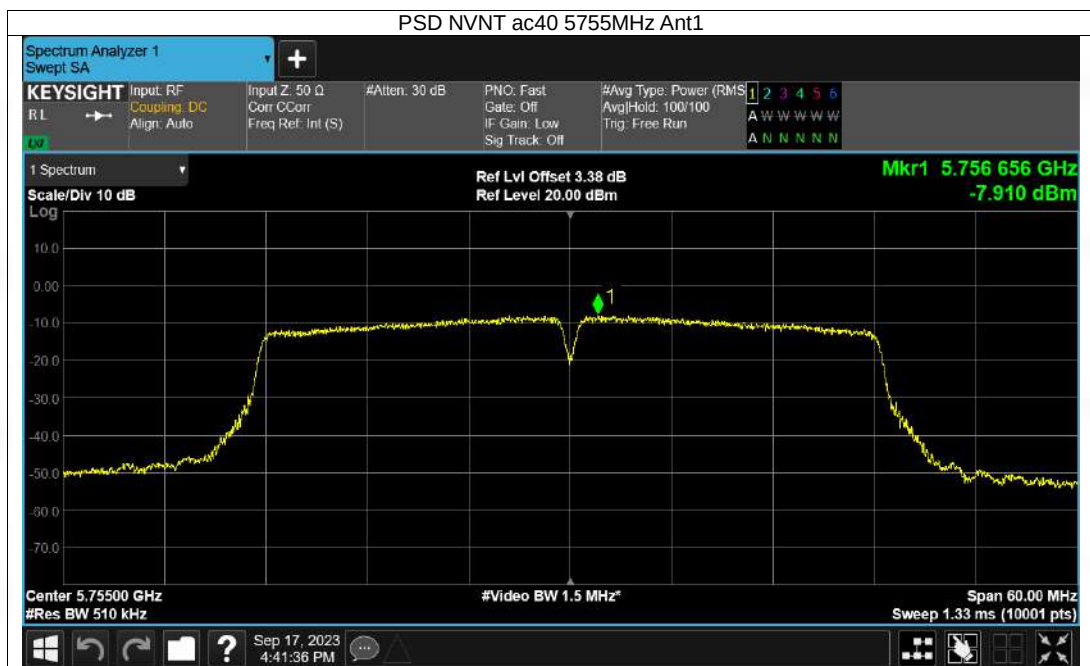


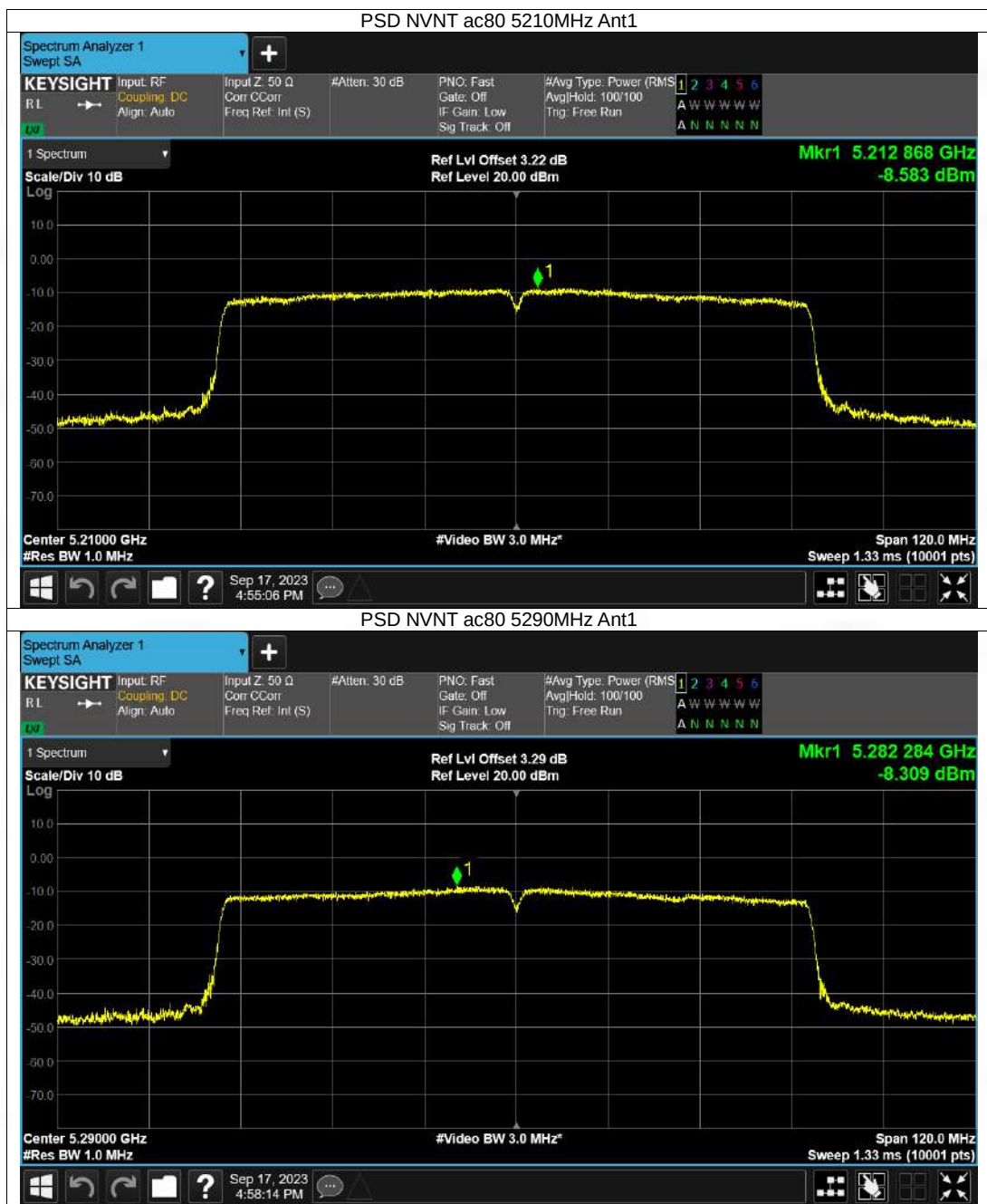


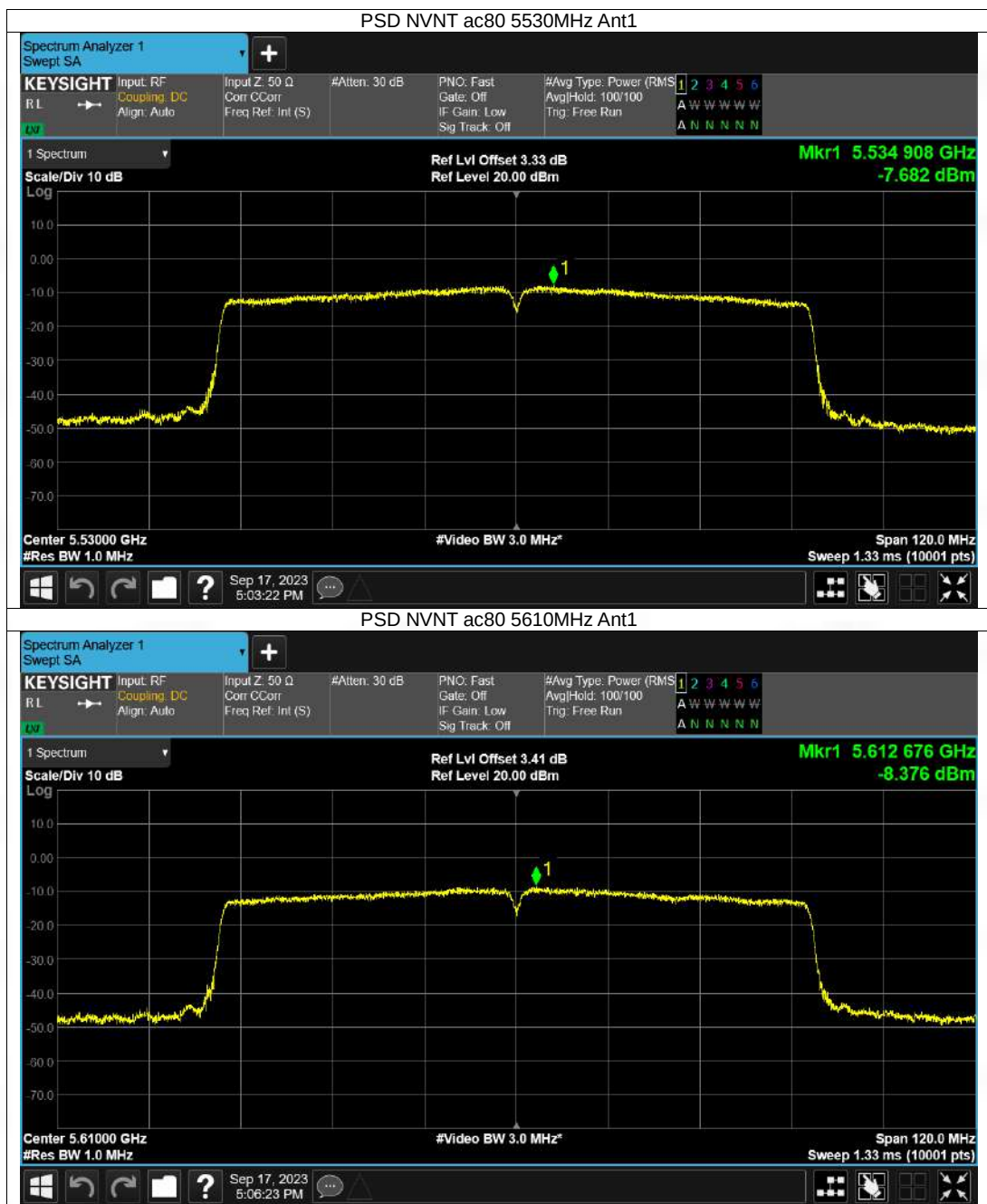


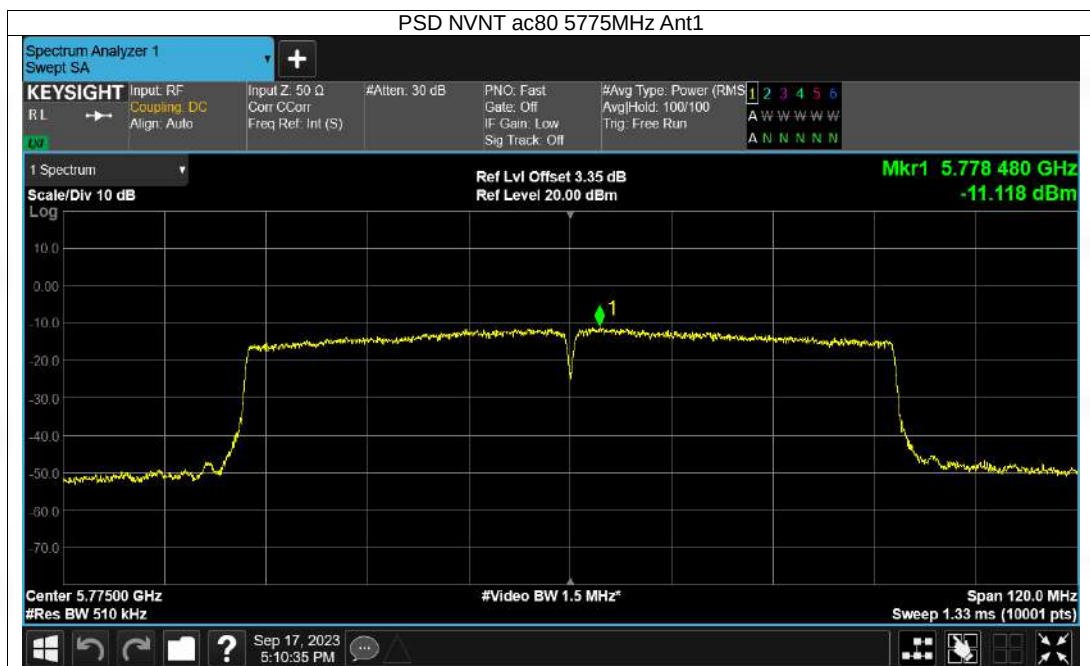












## 4. Frequency Stability

### 4.1 Ant1

#### 4.1.1 Test Result

| Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| a    | 5180            | Ant1    | 5180                     | 0                    | 0               | 25          | Pass    |
| a    | 5240            | Ant1    | 5239.98                  | -20000               | -3.82           | 25          | Pass    |
| a    | 5260            | Ant1    | 5259.96                  | -40000               | -7.6            | 25          | Pass    |
| a    | 5320            | Ant1    | 5320                     | 0                    | 0               | 25          | Pass    |
| a    | 5500            | Ant1    | 5500                     | 0                    | 0               | 25          | Pass    |
| a    | 5700            | Ant1    | 5699.96                  | -40000               | -7.02           | 25          | Pass    |
| a    | 5745            | Ant1    | 5744.96                  | -40000               | -6.96           | 25          | Pass    |
| a    | 5825            | Ant1    | 5825                     | 0                    | 0               | 25          | Pass    |
| n20  | 5180            | Ant1    | 5179.96                  | -40000               | -7.72           | 25          | Pass    |
| n20  | 5240            | Ant1    | 5239.98                  | -20000               | -3.82           | 25          | Pass    |
| n20  | 5260            | Ant1    | 5259.94                  | -60000               | -11.41          | 25          | Pass    |
| n20  | 5320            | Ant1    | 5319.98                  | -20000               | -3.76           | 25          | Pass    |
| n20  | 5500            | Ant1    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| n20  | 5700            | Ant1    | 5699.96                  | -40000               | -7.02           | 25          | Pass    |
| n20  | 5745            | Ant1    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| n20  | 5825            | Ant1    | 5824.96                  | -40000               | -6.87           | 25          | Pass    |
| n40  | 5190            | Ant1    | 5189.96                  | -40000               | -7.71           | 25          | Pass    |
| n40  | 5230            | Ant1    | 5229.96                  | -40000               | -7.65           | 25          | Pass    |
| n40  | 5270            | Ant1    | 5269.96                  | -40000               | -7.59           | 25          | Pass    |
| n40  | 5310            | Ant1    | 5310                     | 0                    | 0               | 25          | Pass    |
| n40  | 5510            | Ant1    | 5509.96                  | -40000               | -7.26           | 25          | Pass    |
| n40  | 5670            | Ant1    | 5669.96                  | -40000               | -7.05           | 25          | Pass    |
| n40  | 5755            | Ant1    | 5755                     | 0                    | 0               | 25          | Pass    |
| n40  | 5795            | Ant1    | 5794.96                  | -40000               | -6.9            | 25          | Pass    |
| ac20 | 5180            | Ant1    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| ac20 | 5240            | Ant1    | 5239.98                  | -20000               | -3.82           | 25          | Pass    |
| ac20 | 5260            | Ant1    | 5260                     | 0                    | 0               | 25          | Pass    |
| ac20 | 5320            | Ant1    | 5319.98                  | -20000               | -3.76           | 25          | Pass    |
| ac20 | 5500            | Ant1    | 5499.96                  | -40000               | -7.27           | 25          | Pass    |
| ac20 | 5700            | Ant1    | 5699.98                  | -20000               | -3.51           | 25          | Pass    |
| ac20 | 5745            | Ant1    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| ac20 | 5825            | Ant1    | 5824.98                  | -20000               | -3.43           | 25          | Pass    |
| ac40 | 5190            | Ant1    | 5189.96                  | -40000               | -7.71           | 25          | Pass    |
| ac40 | 5230            | Ant1    | 5229.96                  | -40000               | -7.65           | 25          | Pass    |
| ac40 | 5270            | Ant1    | 5270                     | 0                    | 0               | 25          | Pass    |
| ac40 | 5310            | Ant1    | 5310.04                  | 40000                | 7.53            | 25          | Pass    |
| ac40 | 5510            | Ant1    | 5509.96                  | -40000               | -7.26           | 25          | Pass    |
| ac40 | 5670            | Ant1    | 5670                     | 0                    | 0               | 25          | Pass    |
| ac40 | 5755            | Ant1    | 5754.96                  | -40000               | -6.95           | 25          | Pass    |
| ac40 | 5795            | Ant1    | 5794.96                  | -40000               | -6.9            | 25          | Pass    |
| ac80 | 5210            | Ant1    | 5210                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5290            | Ant1    | 5290                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5530            | Ant1    | 5529.92                  | -80000               | -14.47          | 25          | Pass    |
| ac80 | 5610            | Ant1    | 5610                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5775            | Ant1    | 5775                     | 0                    | 0               | 25          | Pass    |

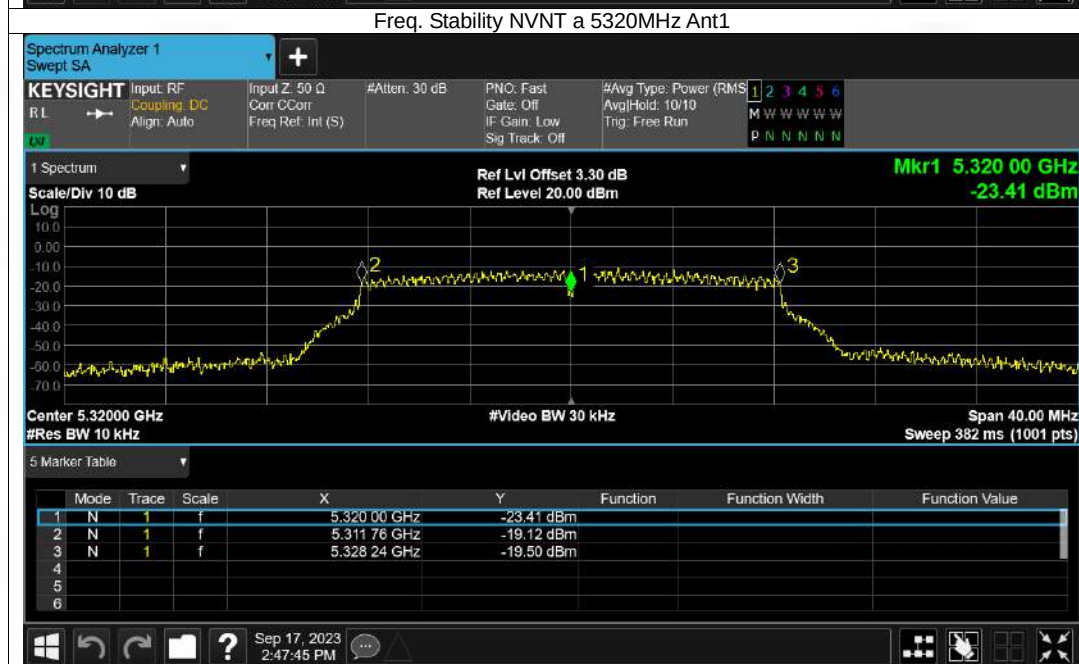
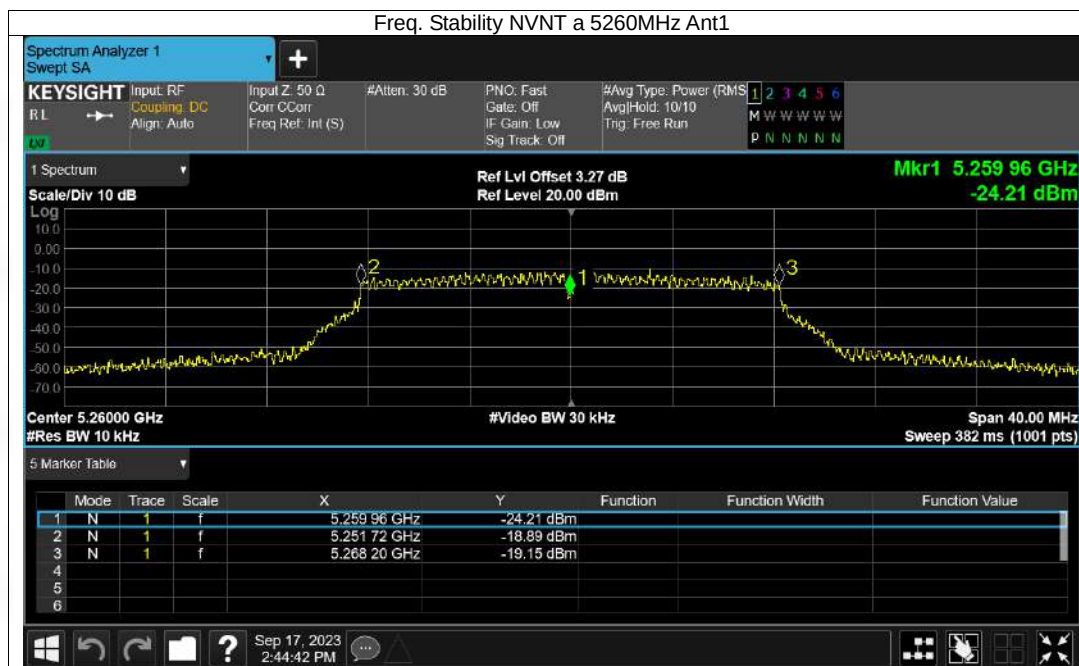
|                                     |
|-------------------------------------|
| Test Graphs                         |
| Freq. Stability NVNT a 5180MHz Ant1 |

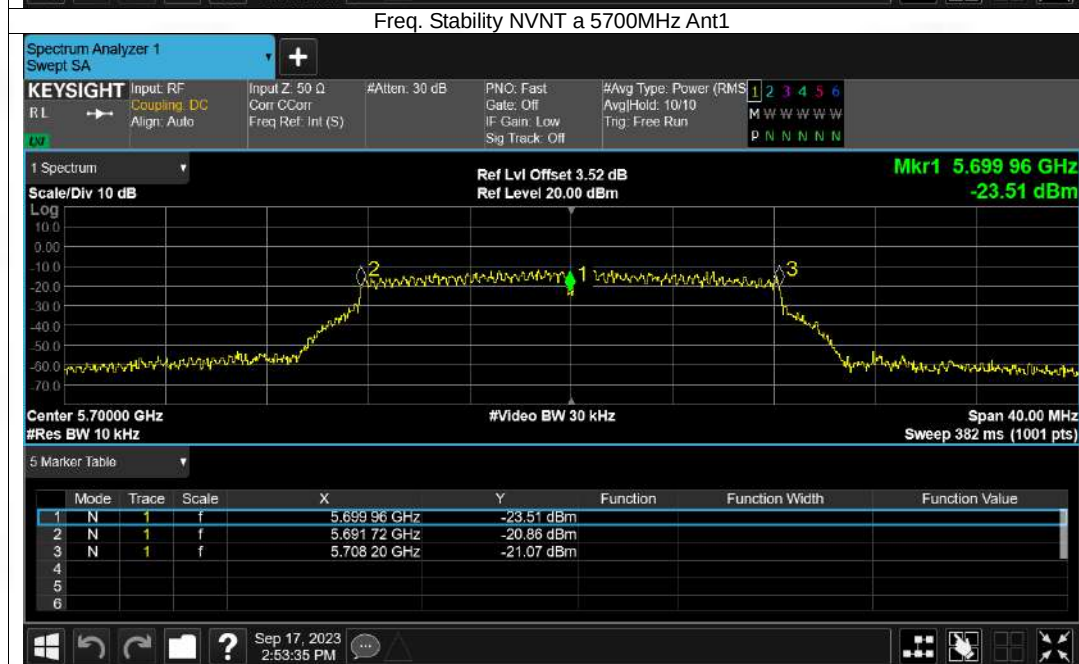
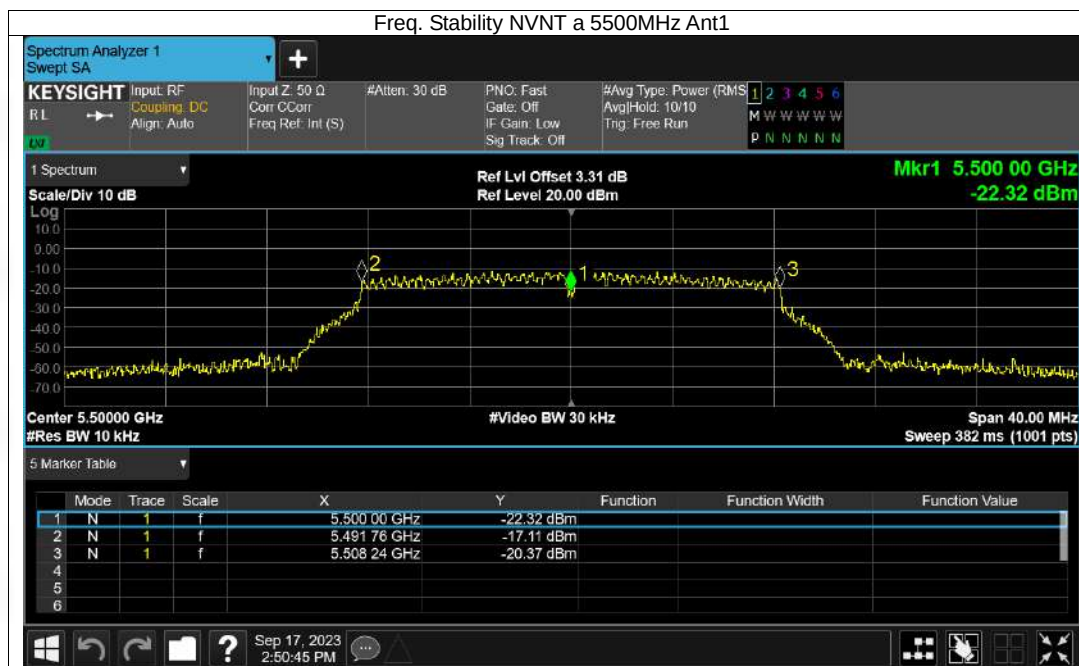


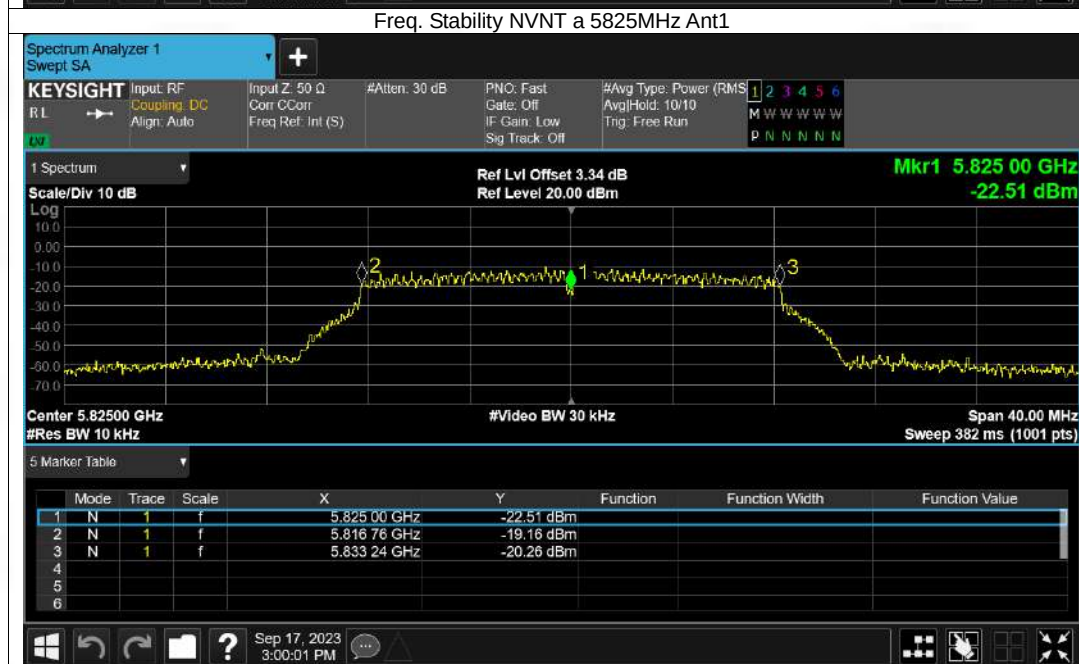
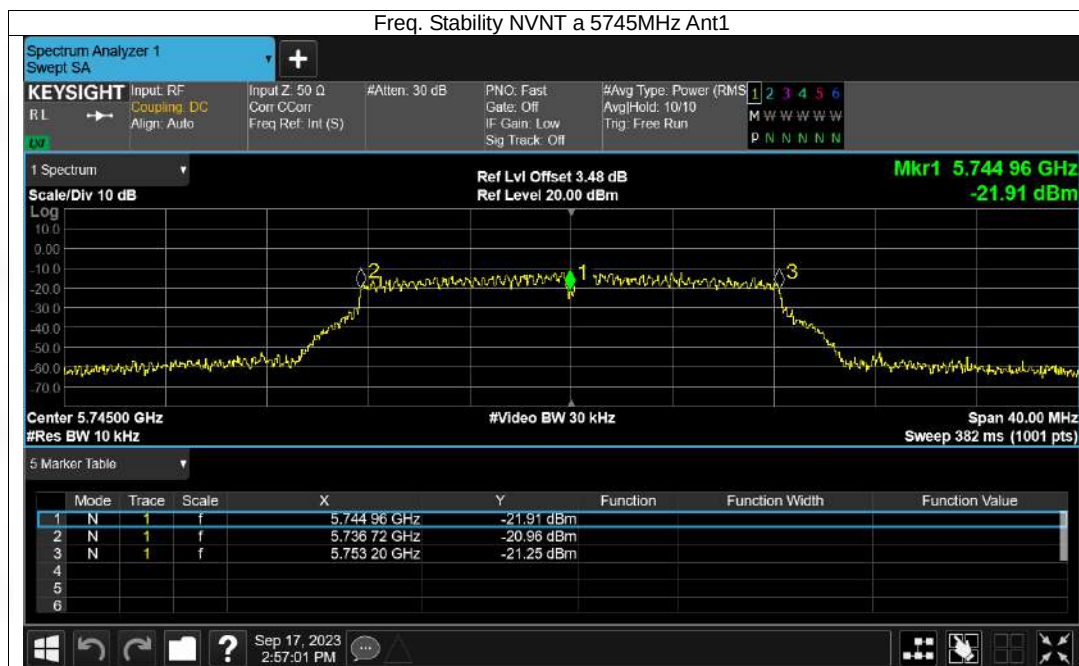
Freq. Stability NVNT a 5240MHz Ant1











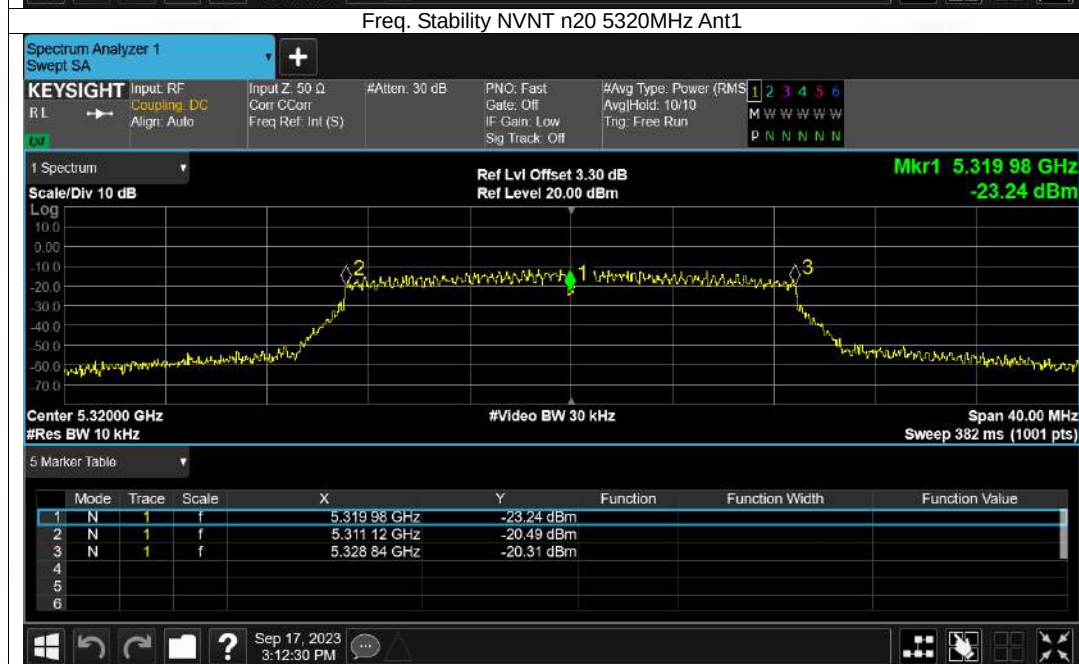
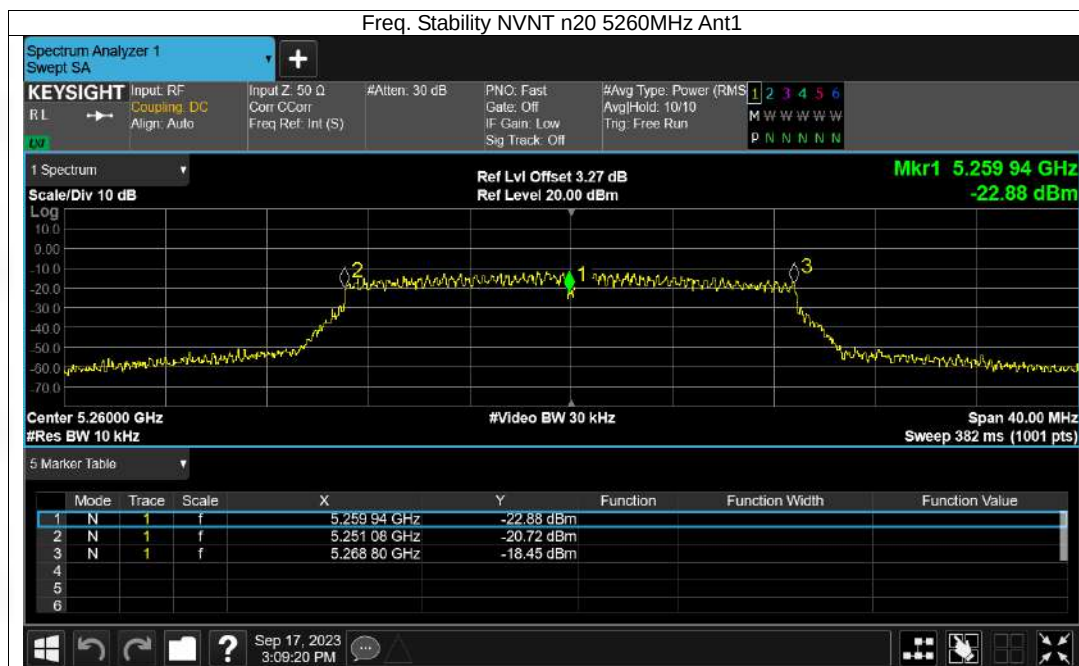
# Freq. Stability NVNT n20 5180MHz Ant1

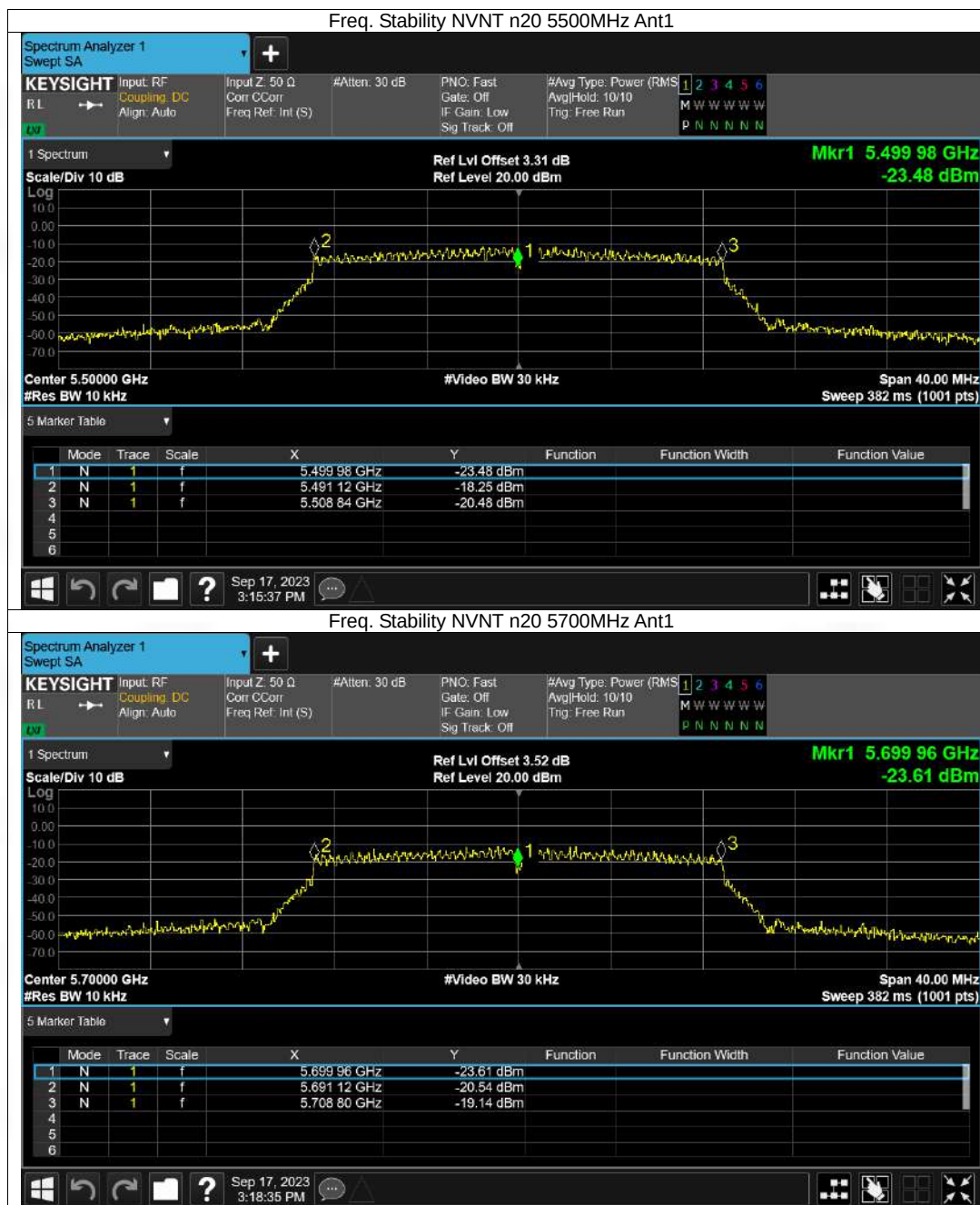


# Freq. Stability NVNT n20 5240MHz Ant1

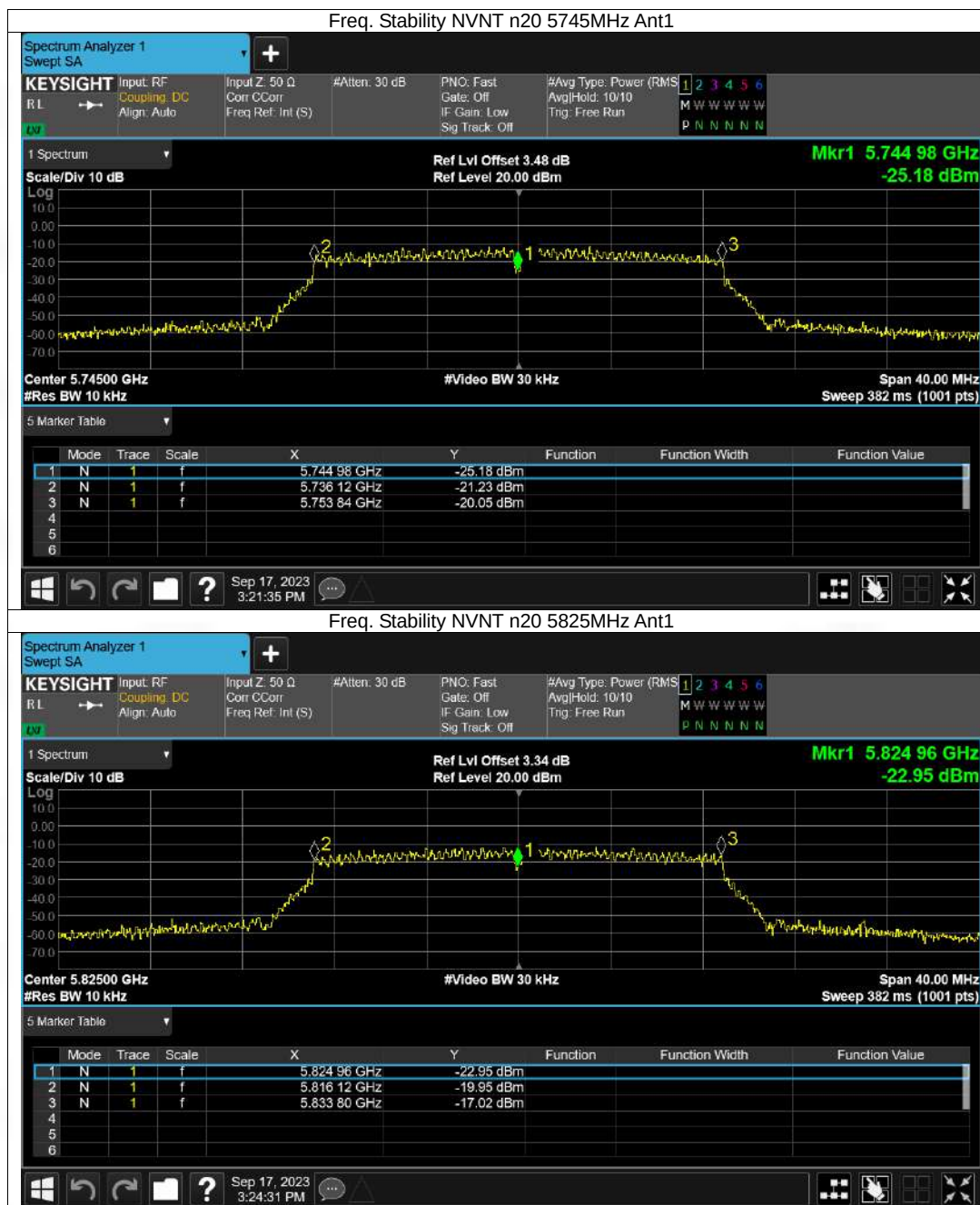












# Freq. Stability NVNT n40 5190MHz Ant1



# Freq. Stability NVNT n40 5230MHz Ant1





# Freq. Stability NVNT n40 5510MHz Ant1



# Freq. Stability NVNT n40 5670MHz Ant1



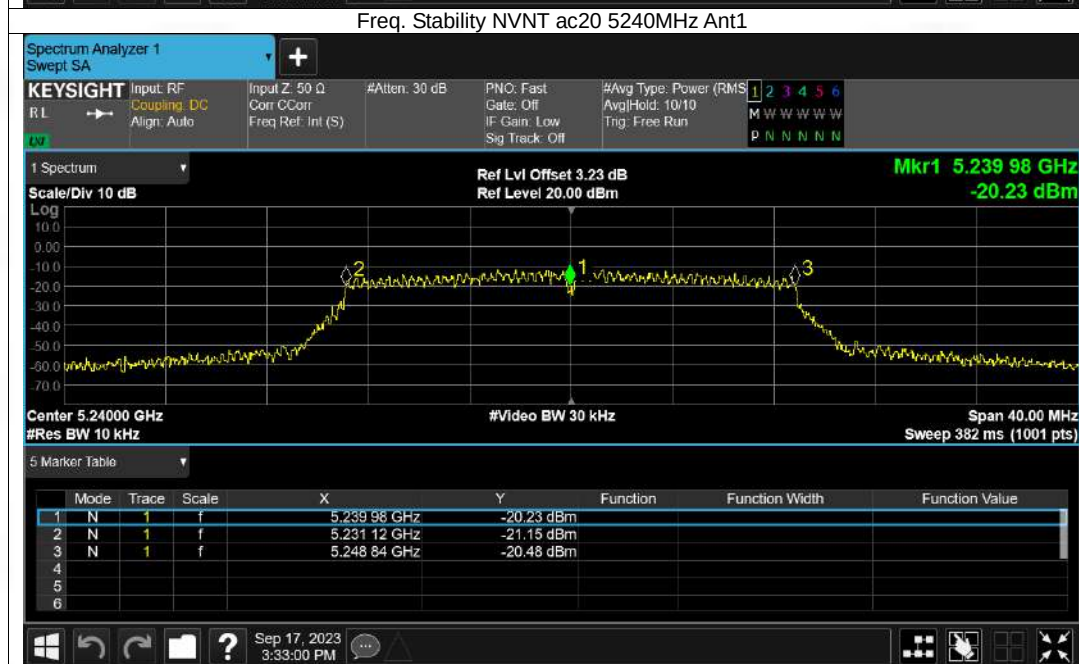
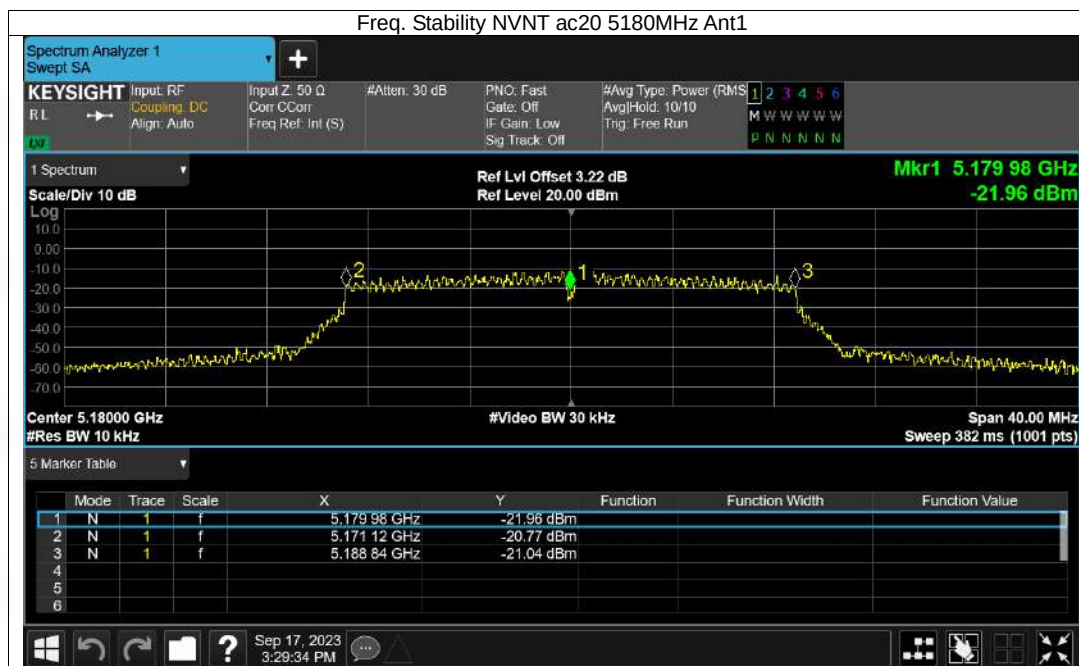


# Freq. Stability NVNT n40 5755MHz Ant1

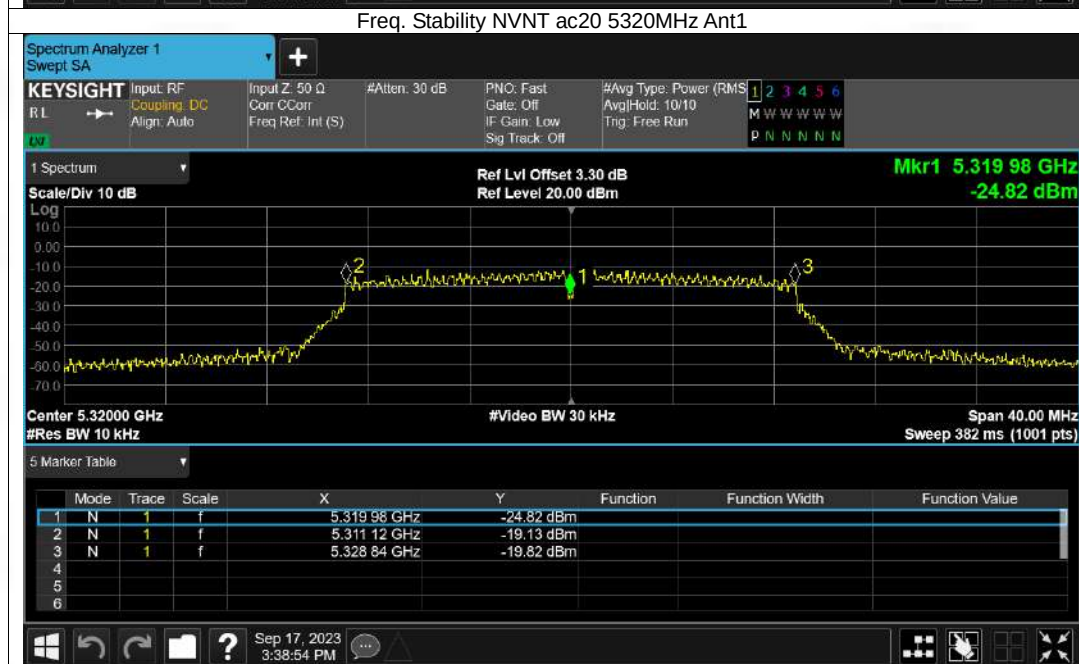
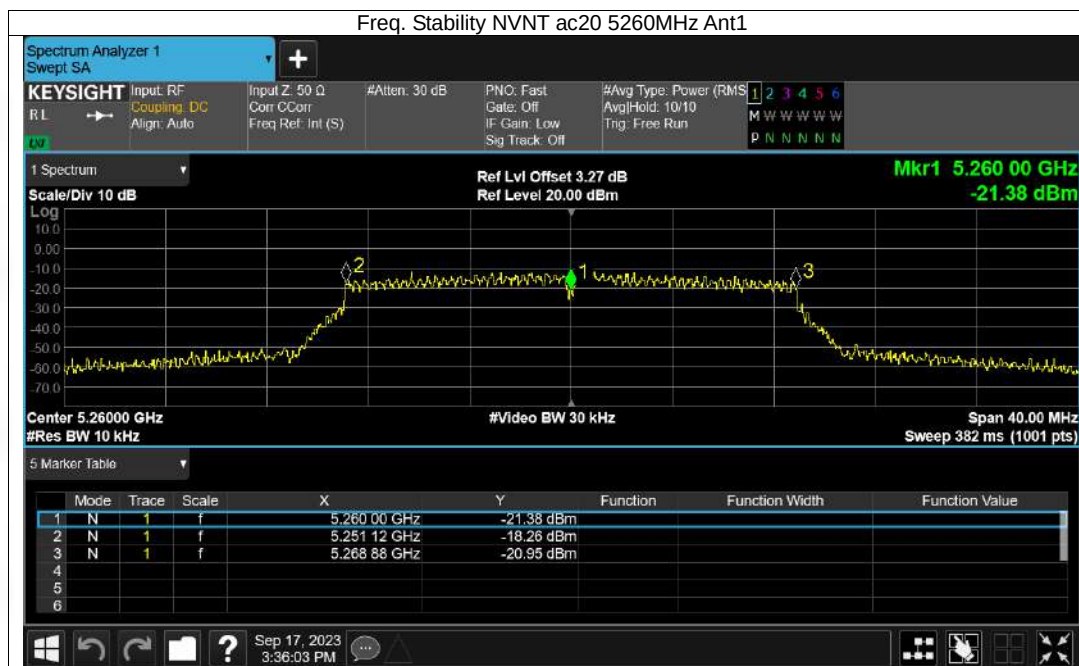


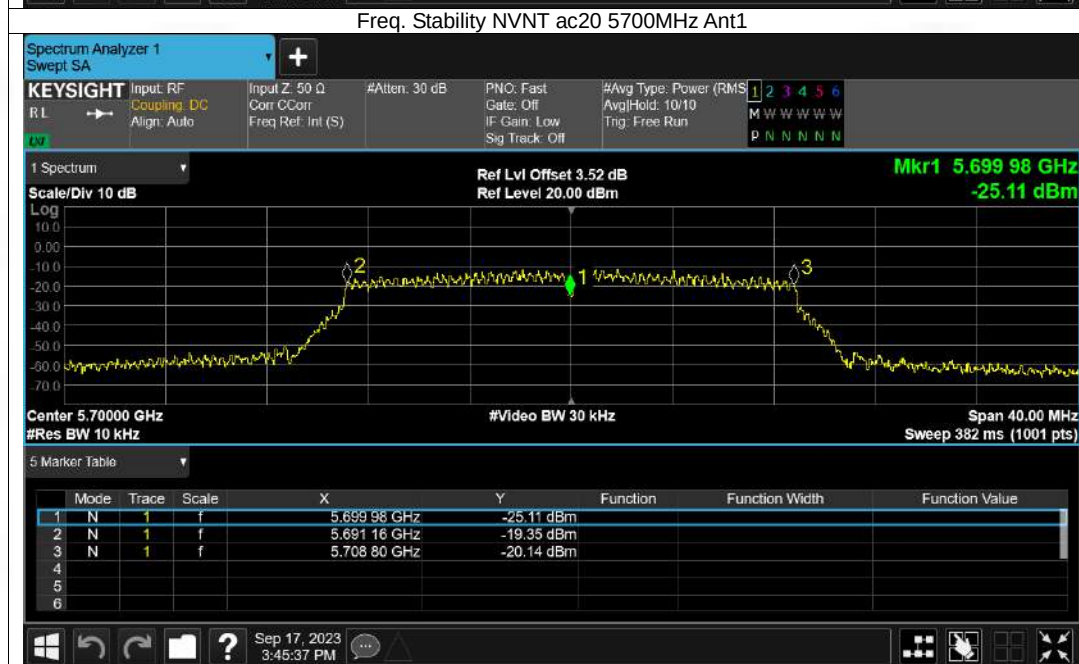
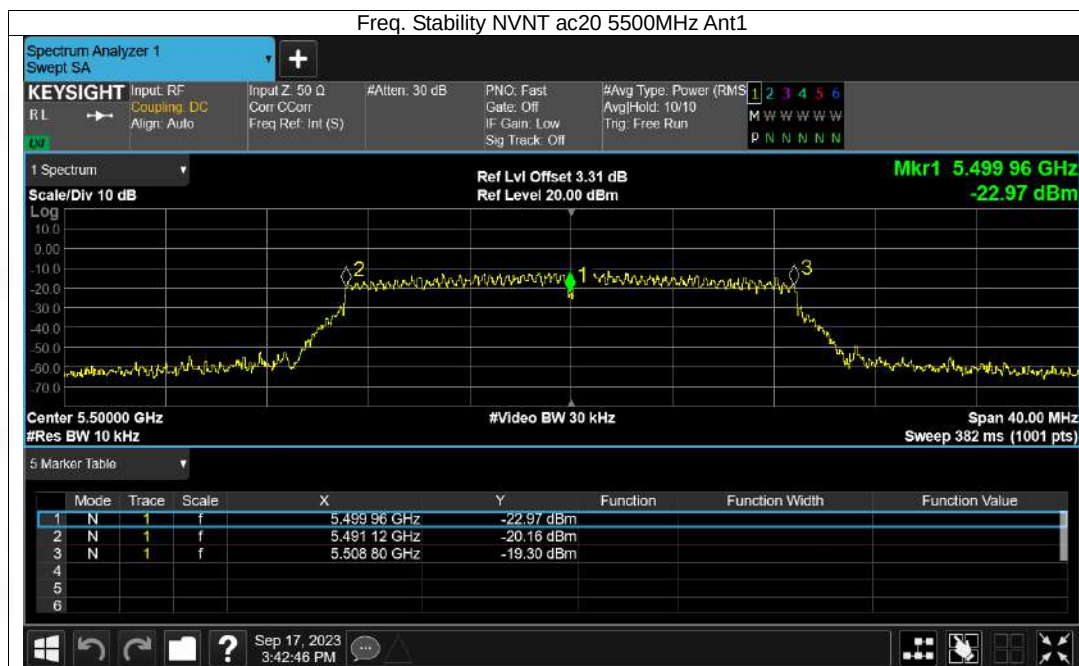
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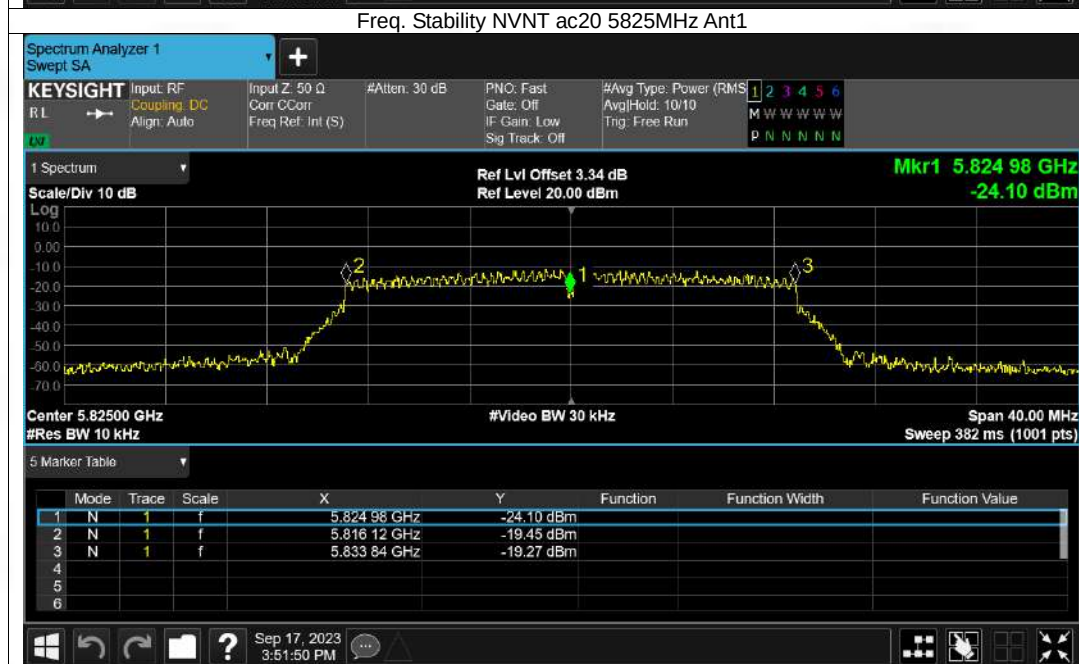
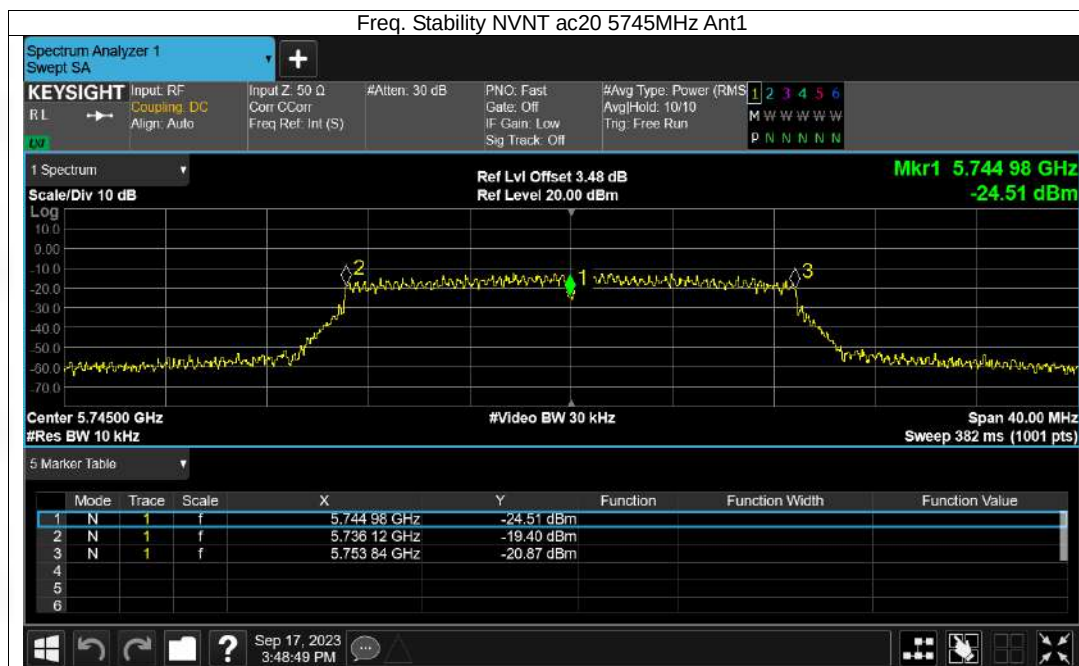


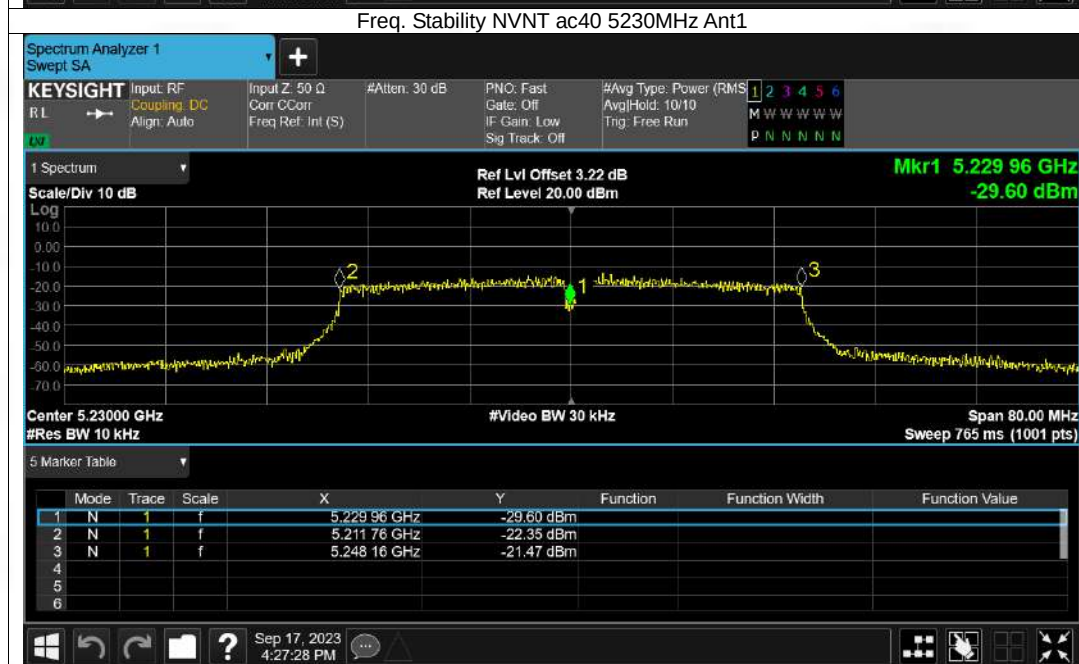
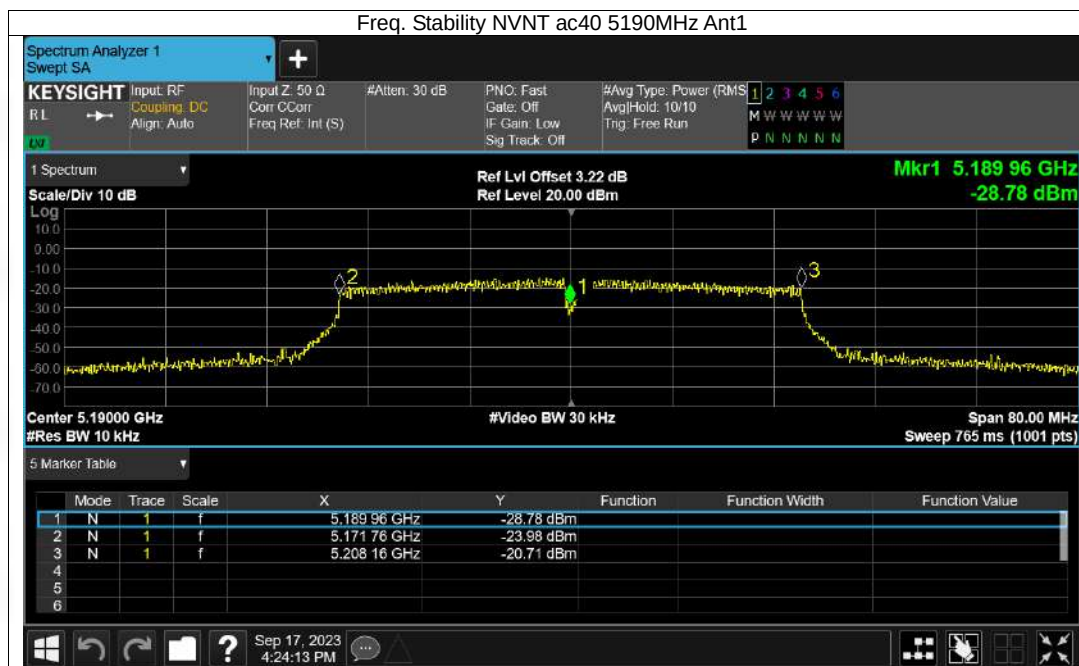














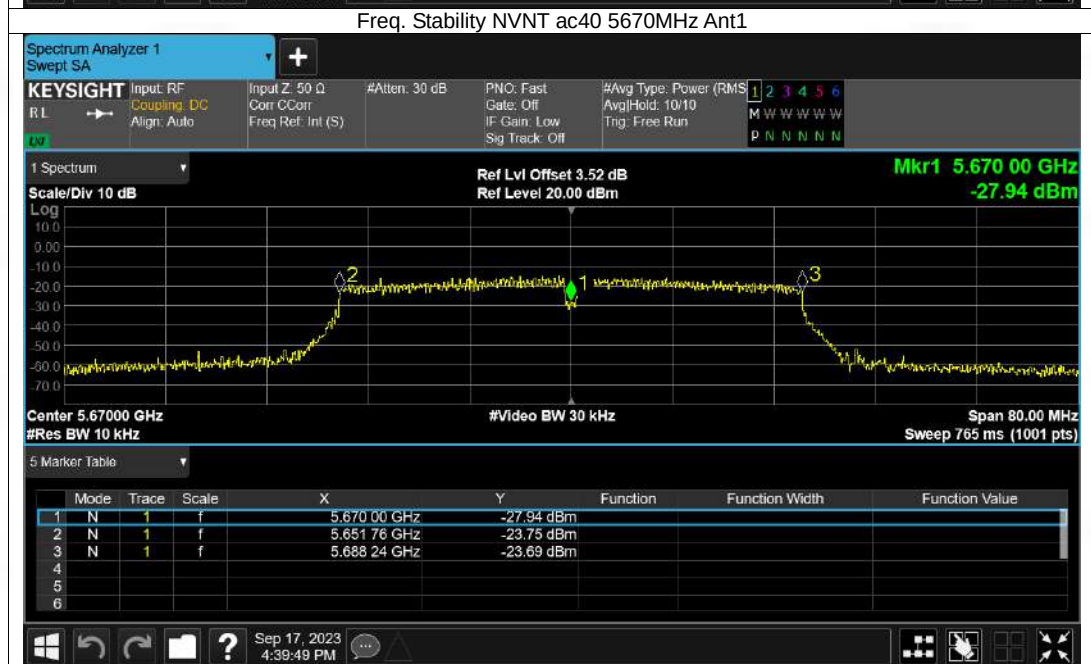
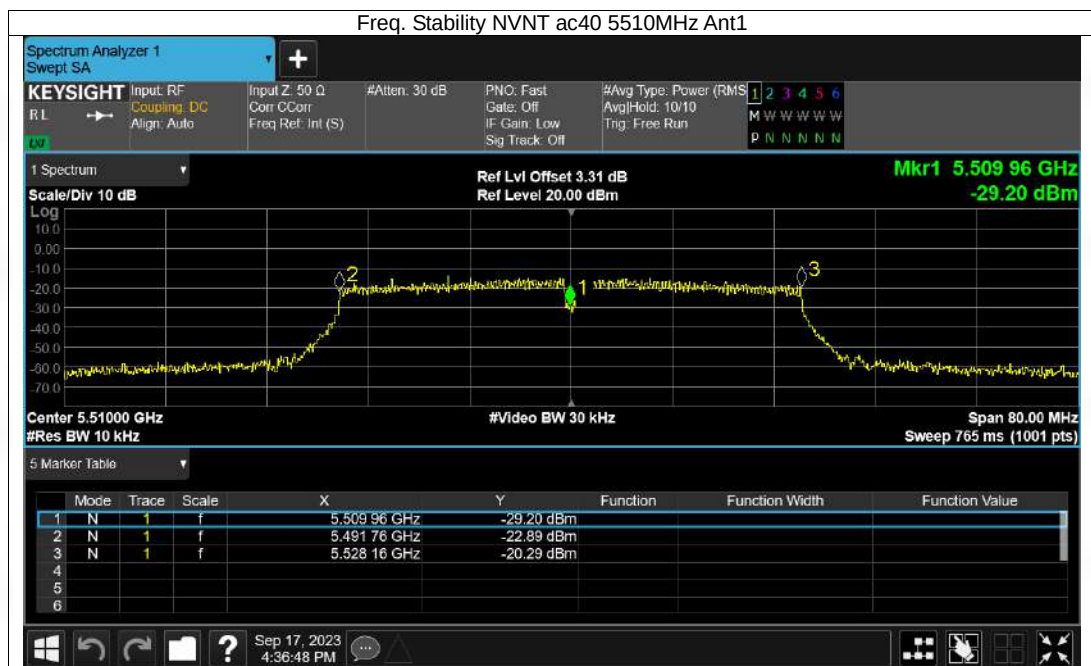
# Freq. Stability NVNT ac40 5270MHz Ant1



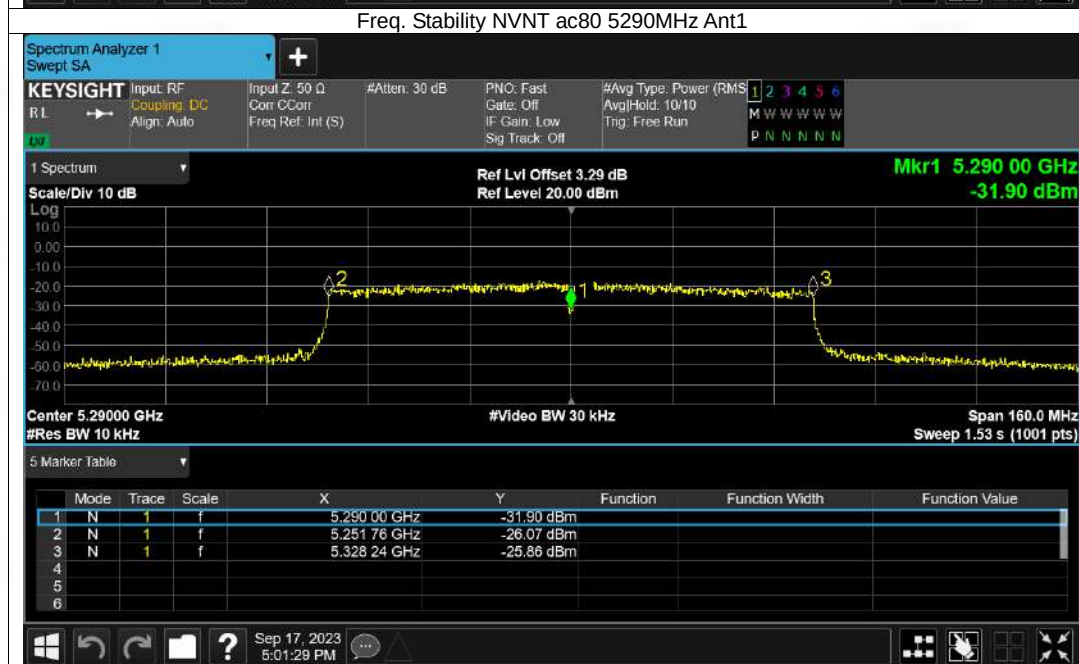
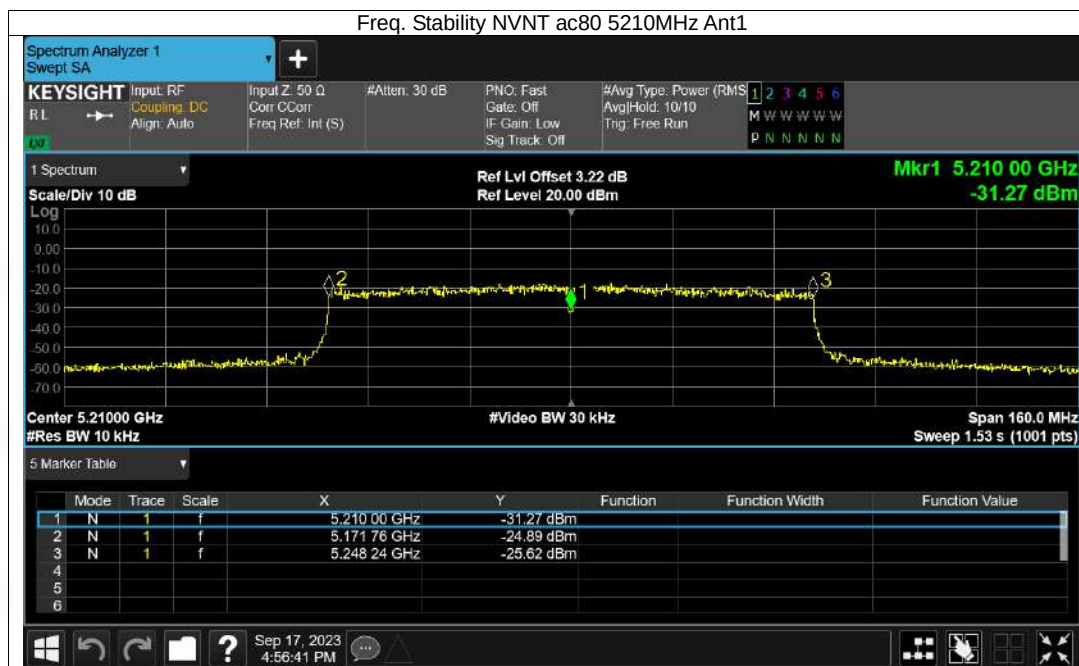
# Freq. Stability NVNT ac40 5310MHz Ant1



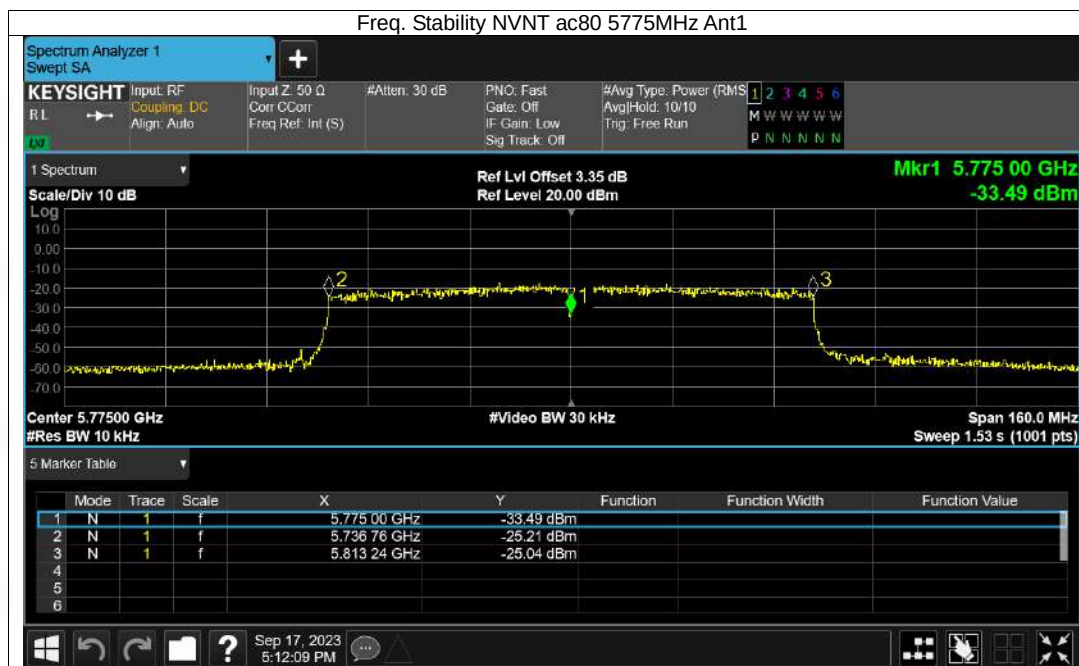
















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