

## Appendix E for KSCR2401000129AT-B66

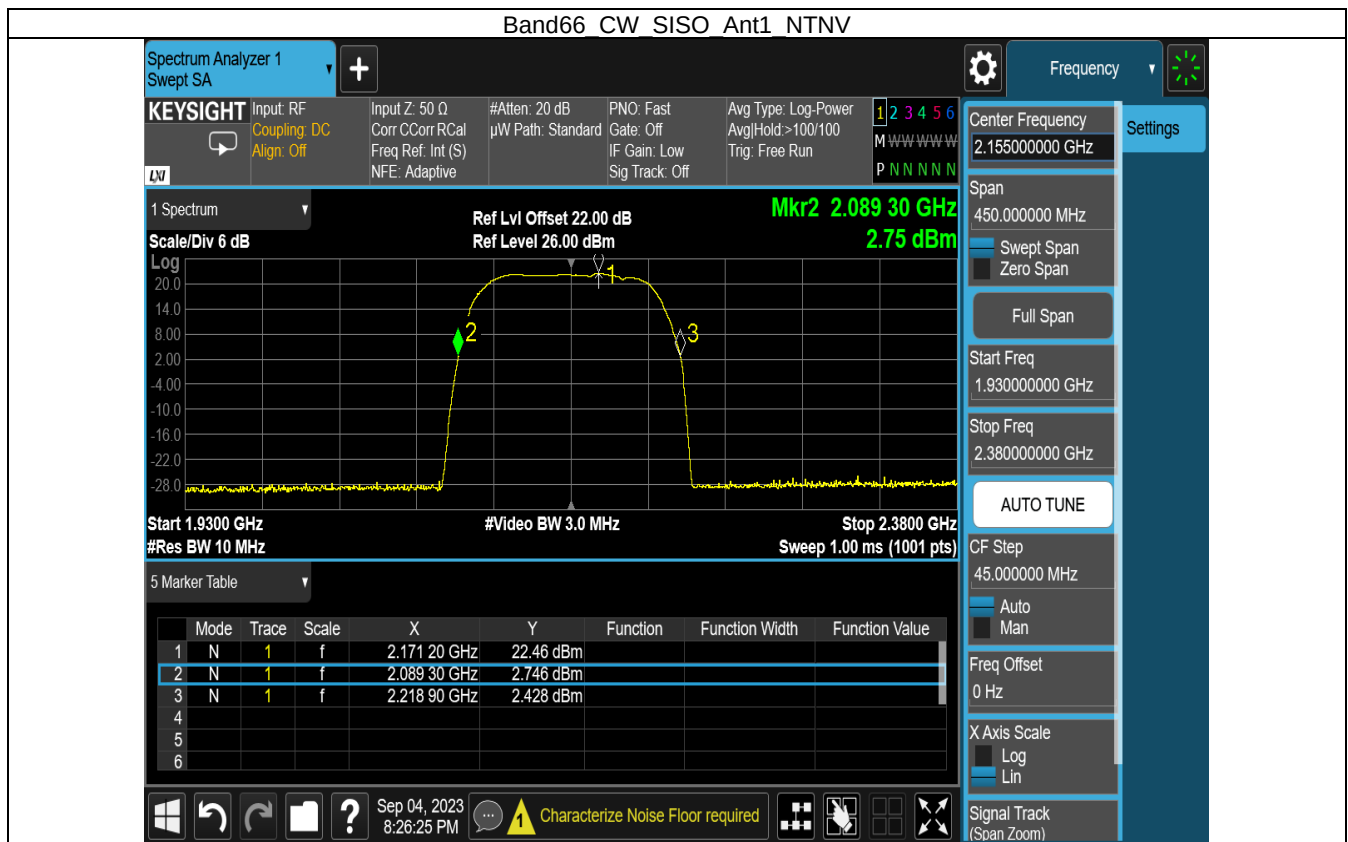
### 1. Out of band rejection

#### 1.1 Band66

##### 1.1.1 Test Result

| Band: 66 / NTNV |                             |         |     |          |          |          |         |
|-----------------|-----------------------------|---------|-----|----------|----------|----------|---------|
| Signal          | Sweep Frequency Range (MHz) | TX Type | ANT | F0 (MHz) | FL (MHz) | FH (MHz) | Verdict |
| CW              | 1930 - 2380                 | SISO    | 1   | 2171.2   | 2089.3   | 2218.9   | Pass    |

##### 1.1.2 Test Graph



## 2. AGC threshold

### 2.1 Band66

#### 2.1.1 Test Result

| Band: 66 / NTNV |                 |         |     |                     |         |
|-----------------|-----------------|---------|-----|---------------------|---------|
| Signal          | Frequency (MHz) | TX Type | ANT | AGC Threshold (dBm) | Verdict |
| AWGN            | 2171.2          | SISO    | 1   | -3                  | Pass    |
| GMSK            | 2171.2          | SISO    | 1   | -3                  | Pass    |

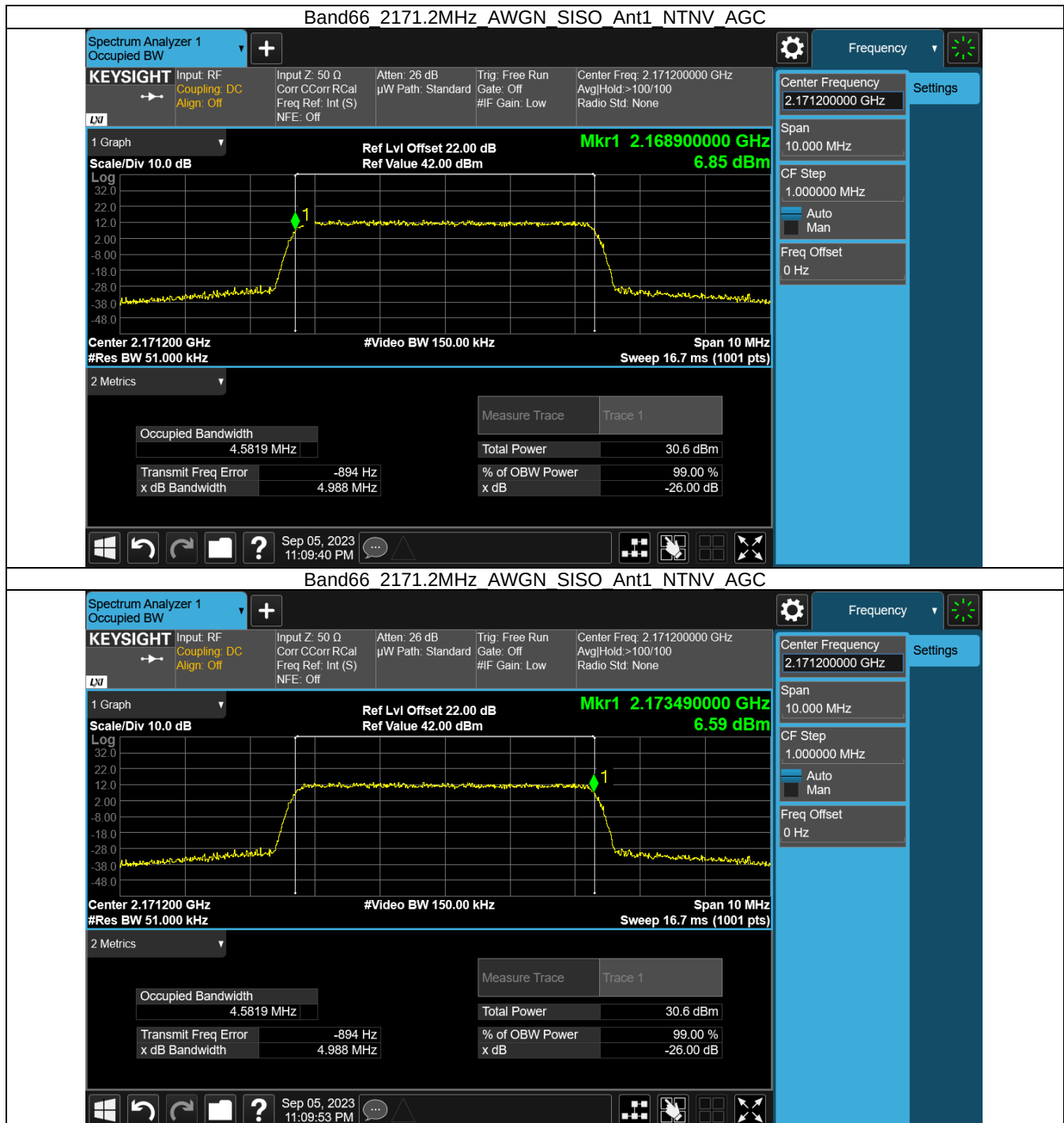
## 3. Input-versus-output signal comparison

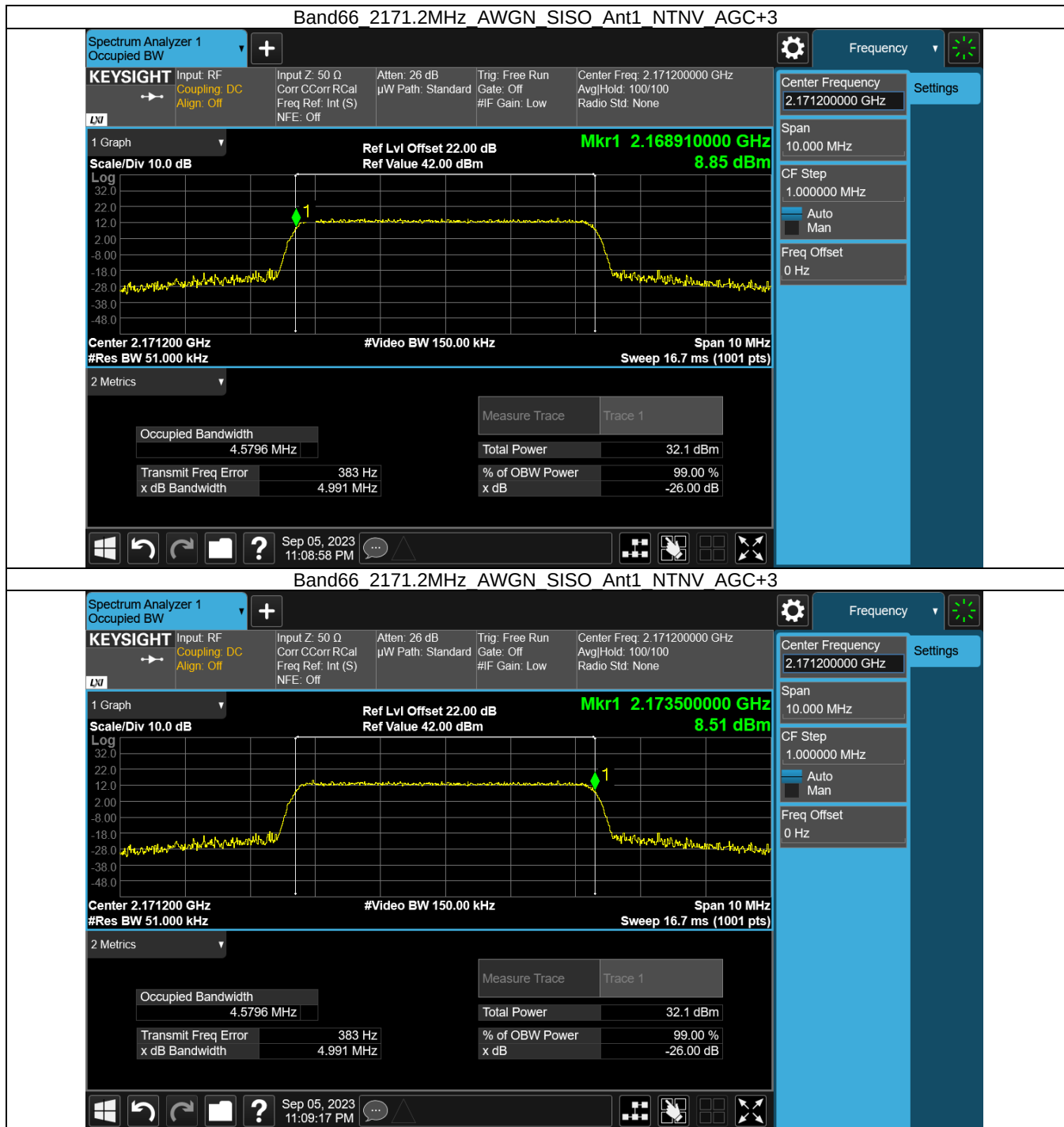
### 3.1 Band66\_OBW

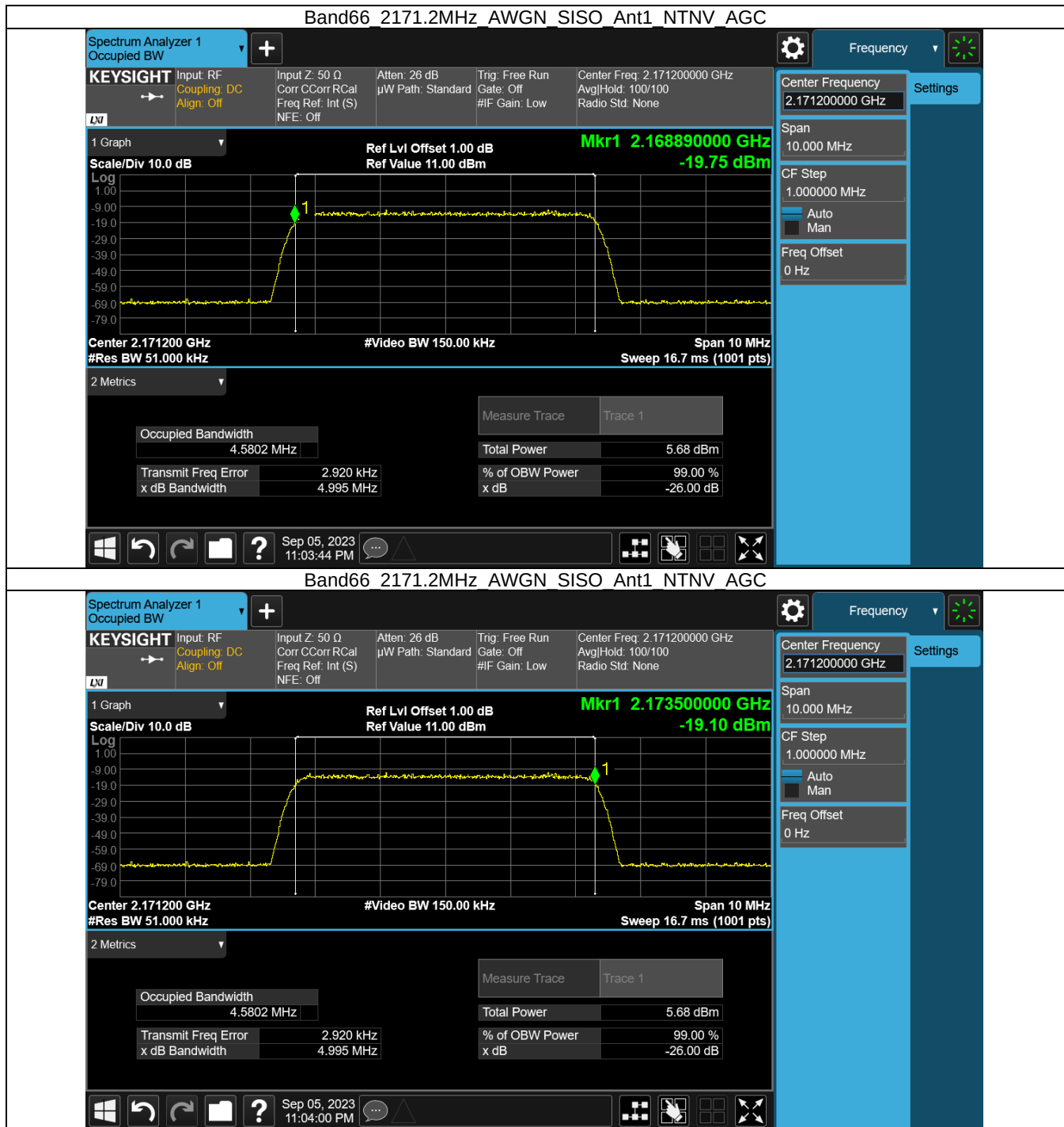
#### 3.1.1 Test Result

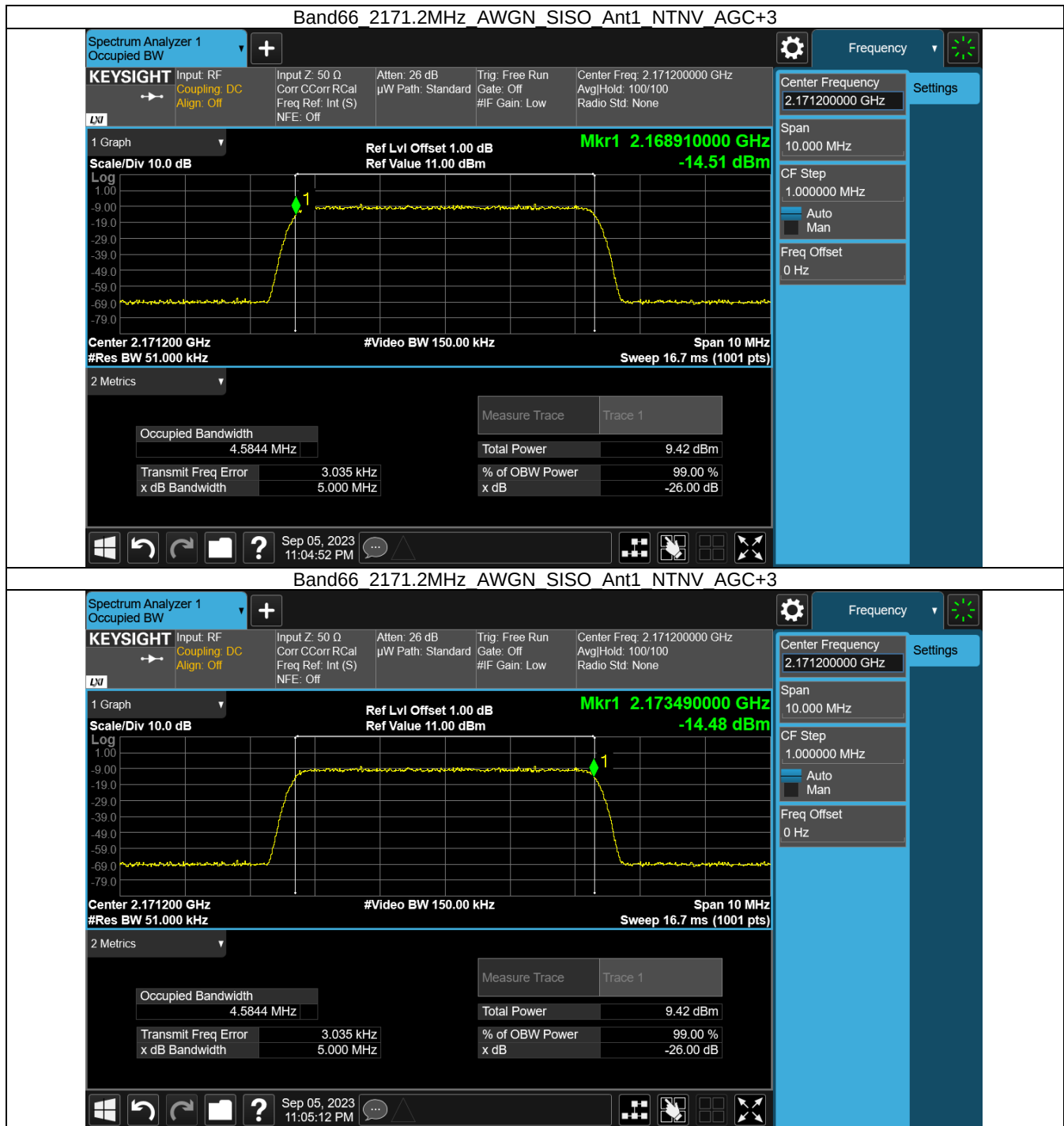
| Band: 66 / NTNV |             |                 |         |     |               |         |                 |           |         |
|-----------------|-------------|-----------------|---------|-----|---------------|---------|-----------------|-----------|---------|
| Signal          |             |                 | TX Type | ANT | 99% OBW (MHz) |         | Discrepancy (%) | Limit (%) | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Output        | Input   |                 |           |         |
| AWGN            | -3          | 2171.2          | SISO    | 1   | 4.5819        | 4.5802  | 0.0371          | 5         | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 4.5796        | 4.5844  | -0.1050         | 5         | Pass    |
| GMSK            | -3          | 2171.2          | SISO    | 1   | 0.24588       | 0.24575 | 0.0529          | 5         | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 0.24586       | 0.24575 | 0.0448          | 5         | Pass    |

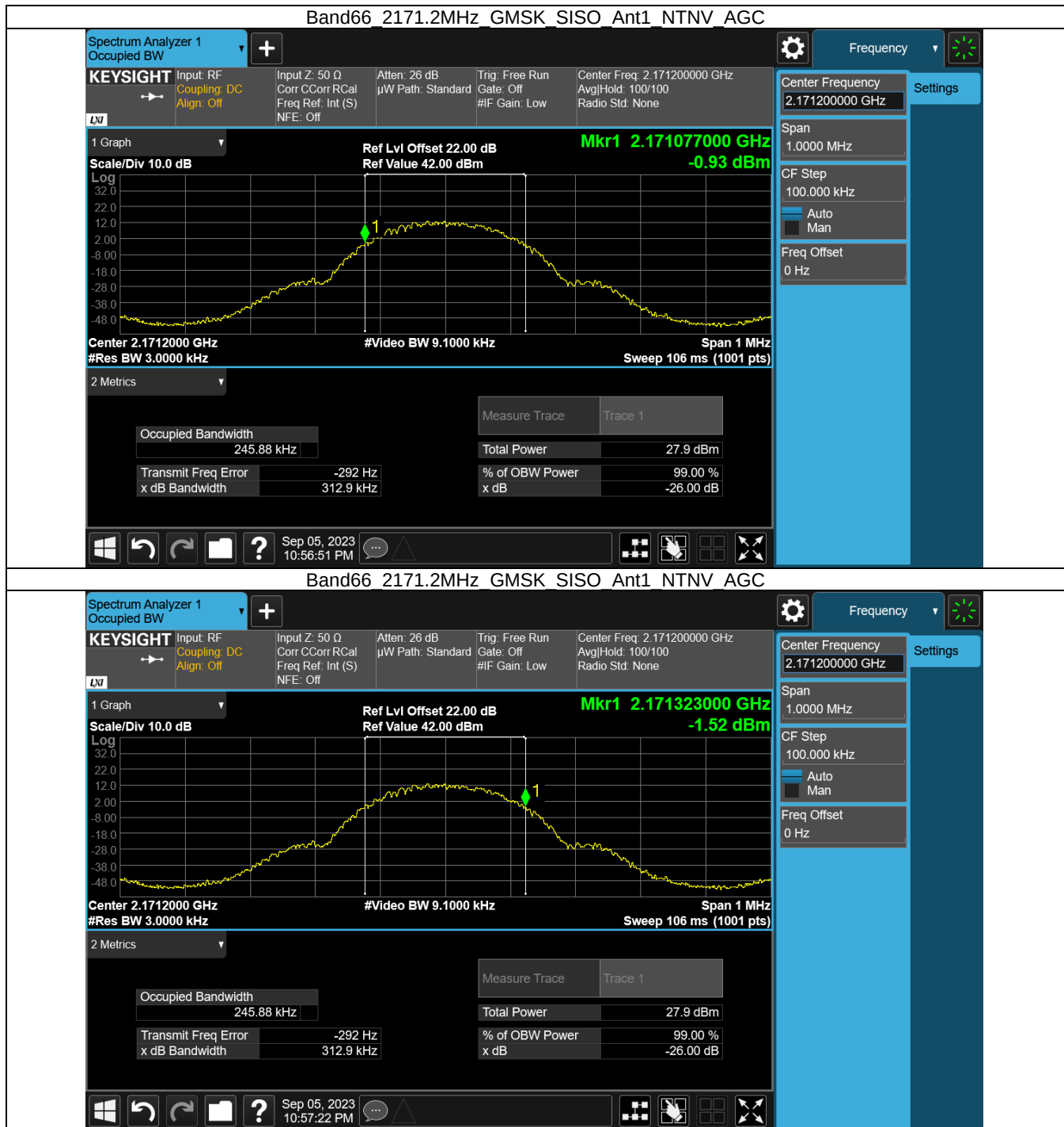
## 3.1.2 Test Graph



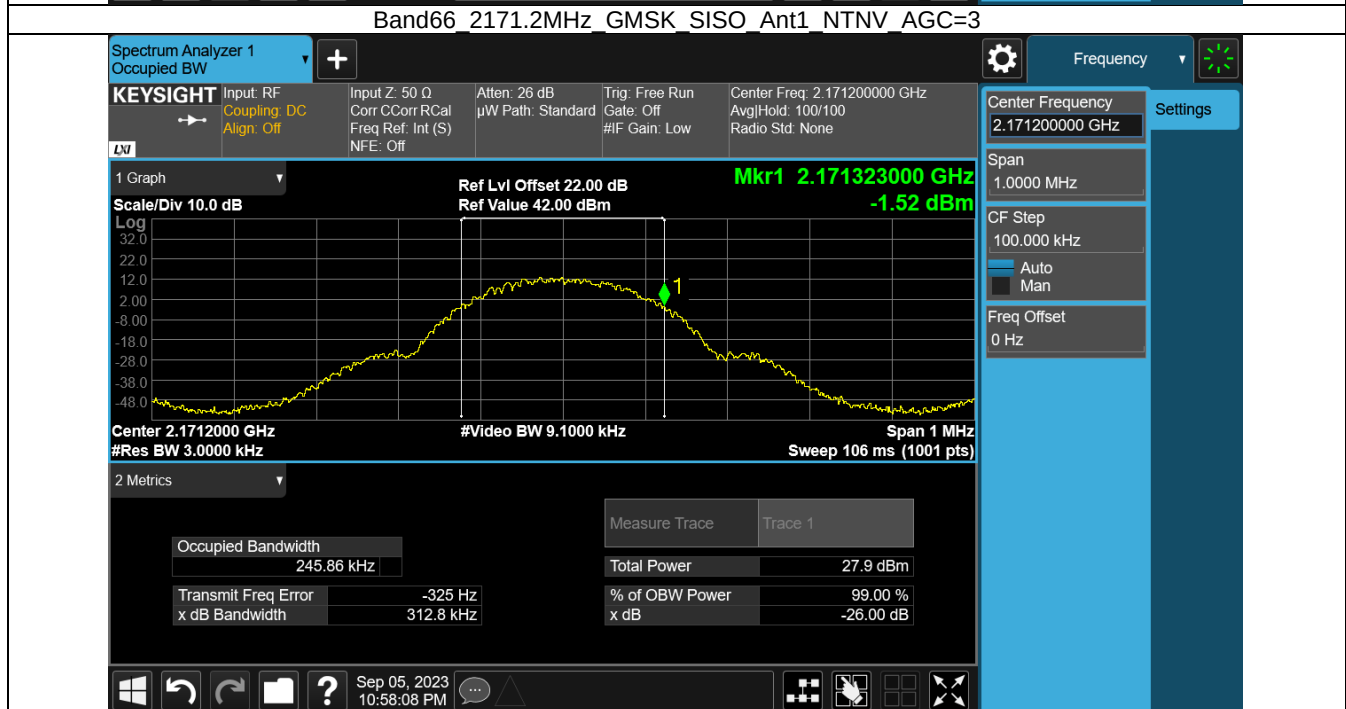
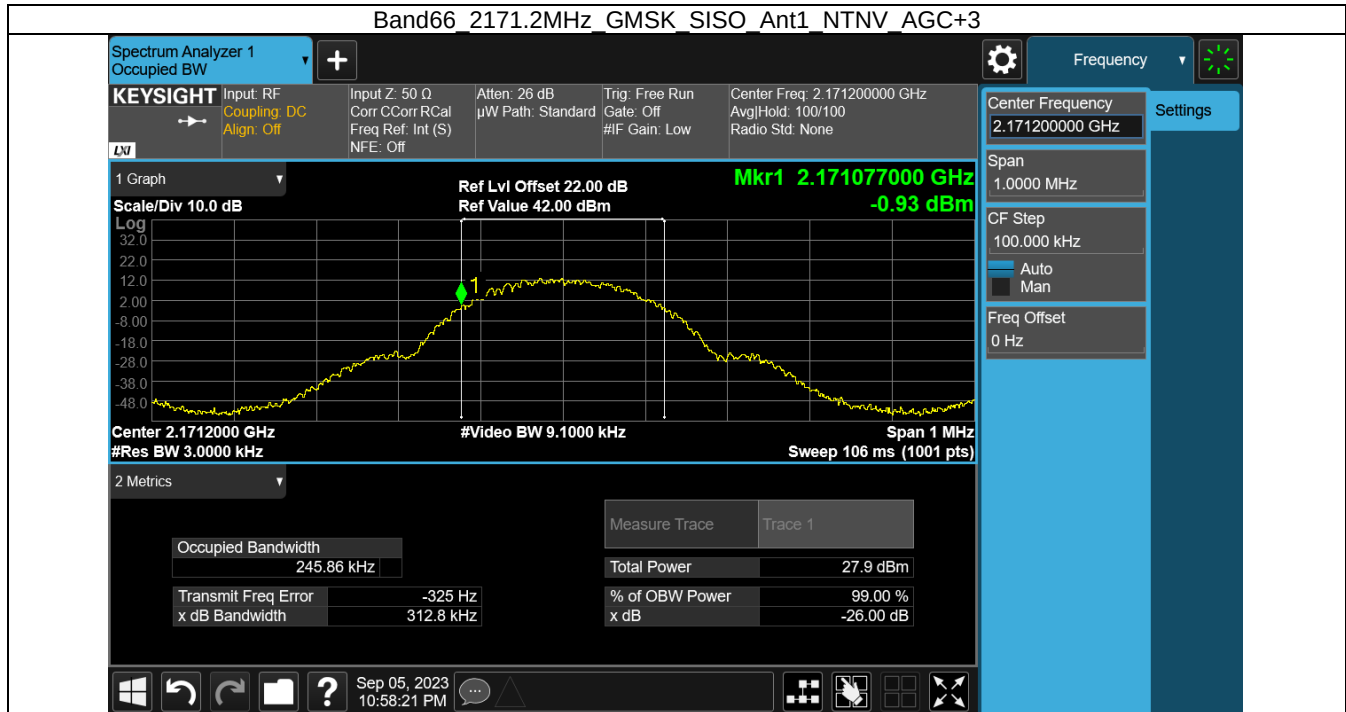


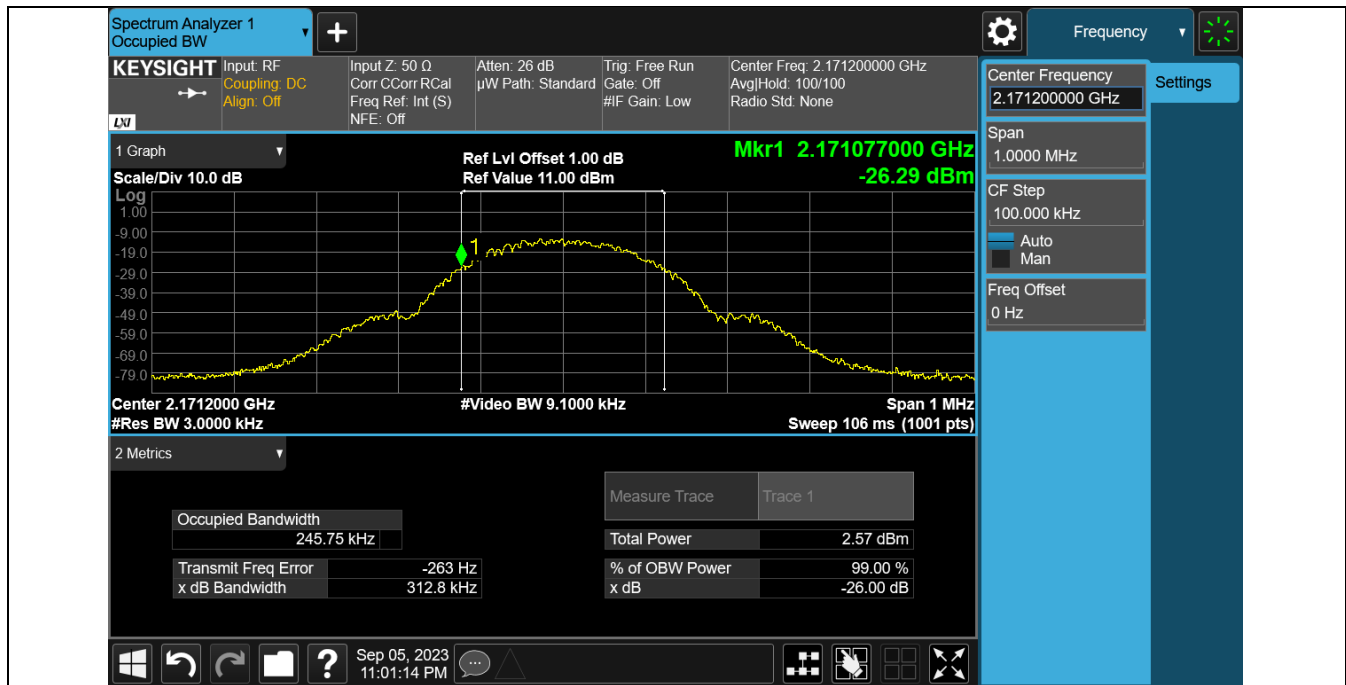




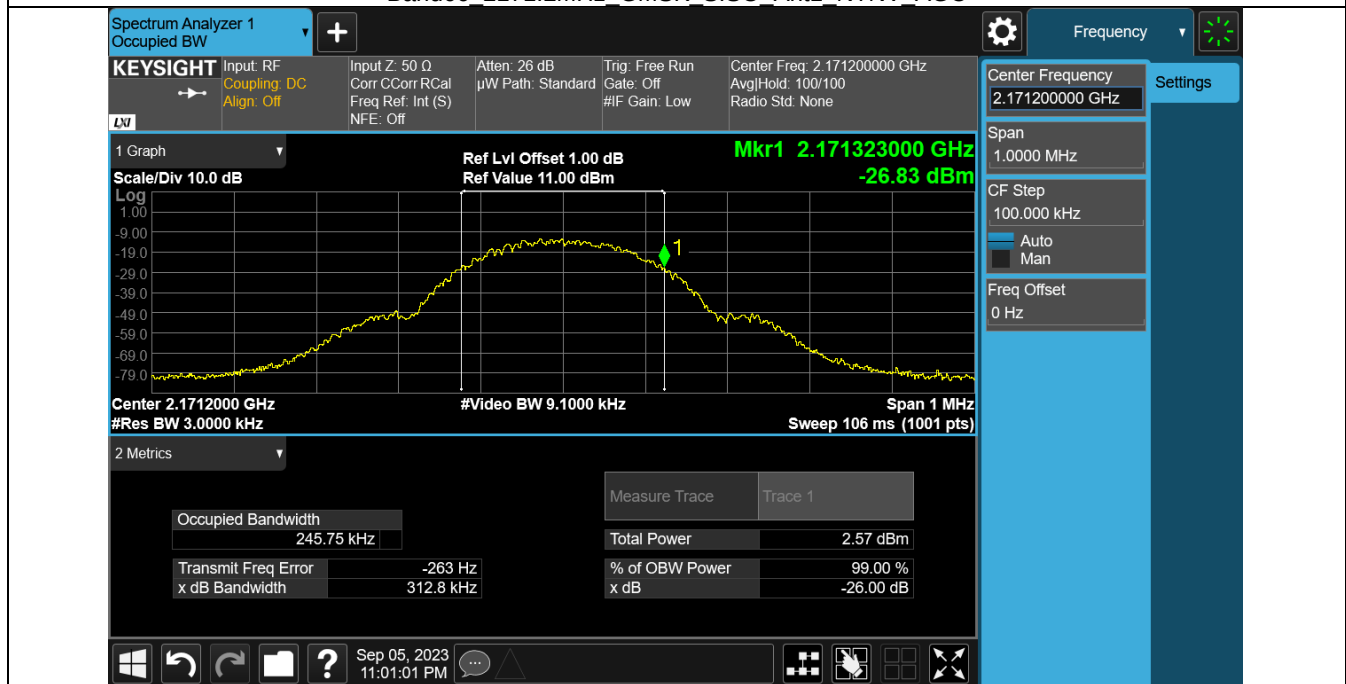








Band66 2171.2MHz GMSK SISO Ant1 NTN AGC



Band66 2171.2MHz GMSK SISO Ant1 NTN AGC+3

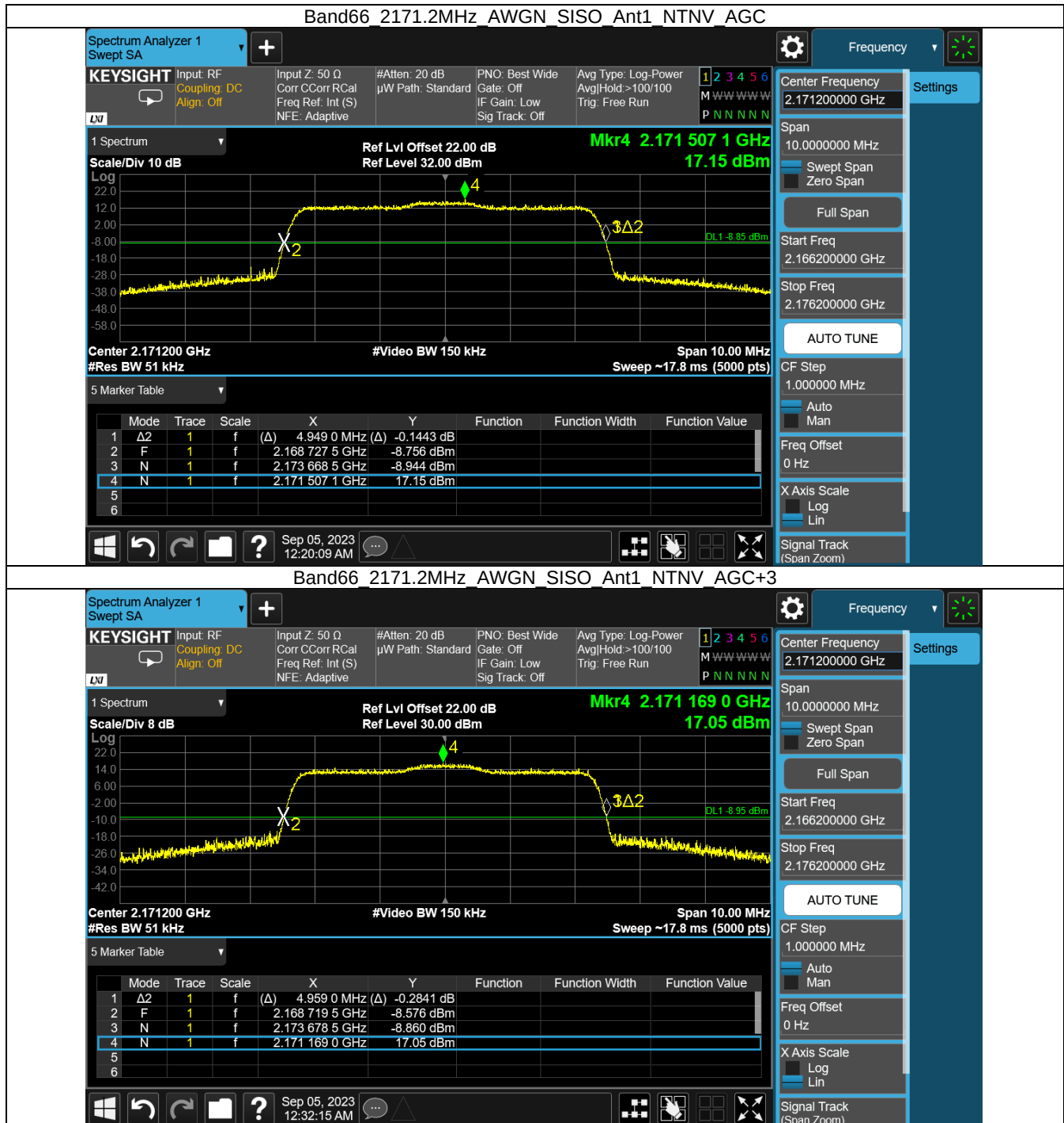


## 3.2 Band66\_EBW

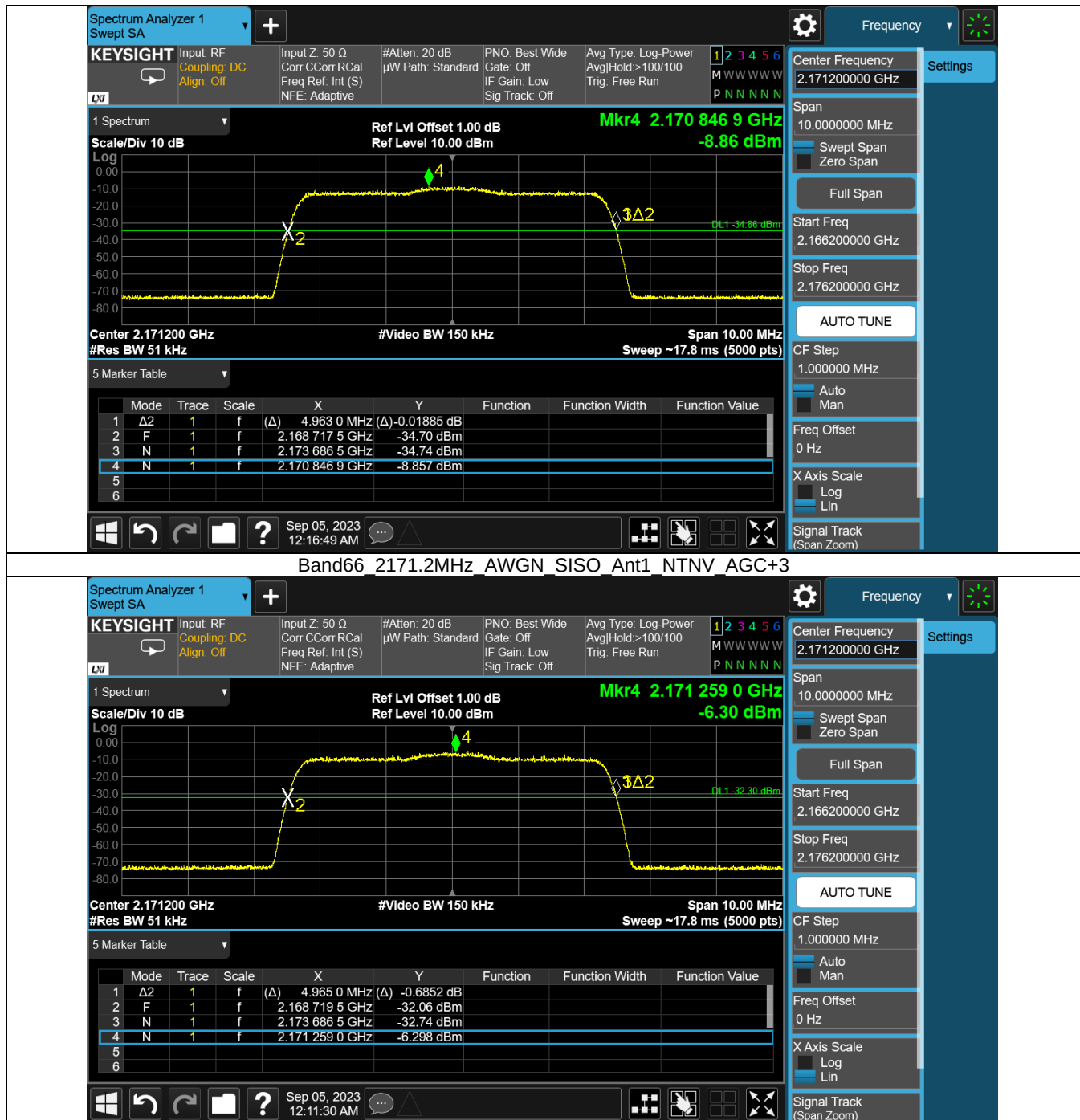
### 3.2.1 Test Result

| Band: 66 / NTNV |             |                 |         |     |                |         |                 |           |         |
|-----------------|-------------|-----------------|---------|-----|----------------|---------|-----------------|-----------|---------|
| Signal          |             |                 | TX Type | ANT | 26dB EBW (MHz) |         | Discrepancy (%) | Limit (%) | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Output         | Input   |                 |           |         |
| AWGN            | -3          | 2171.2          | SISO    | 1   | 4.949          | 4.963   | -0.282          | 5         | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 4.959          | 4.965   | -0.121          | 5         | Pass    |
| GMSK            | -3          | 2171.2          | SISO    | 1   | 0.31266        | 0.31426 | -0.509          | 5         | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 0.31286        | 0.31306 | -0.064          | 5         | Pass    |

## 3.2.2 Test Graph



Band66 2171.2MHz AWGN SISO Ant1 NTN AGC









## 4. Input/output power and amplifier/booster gain

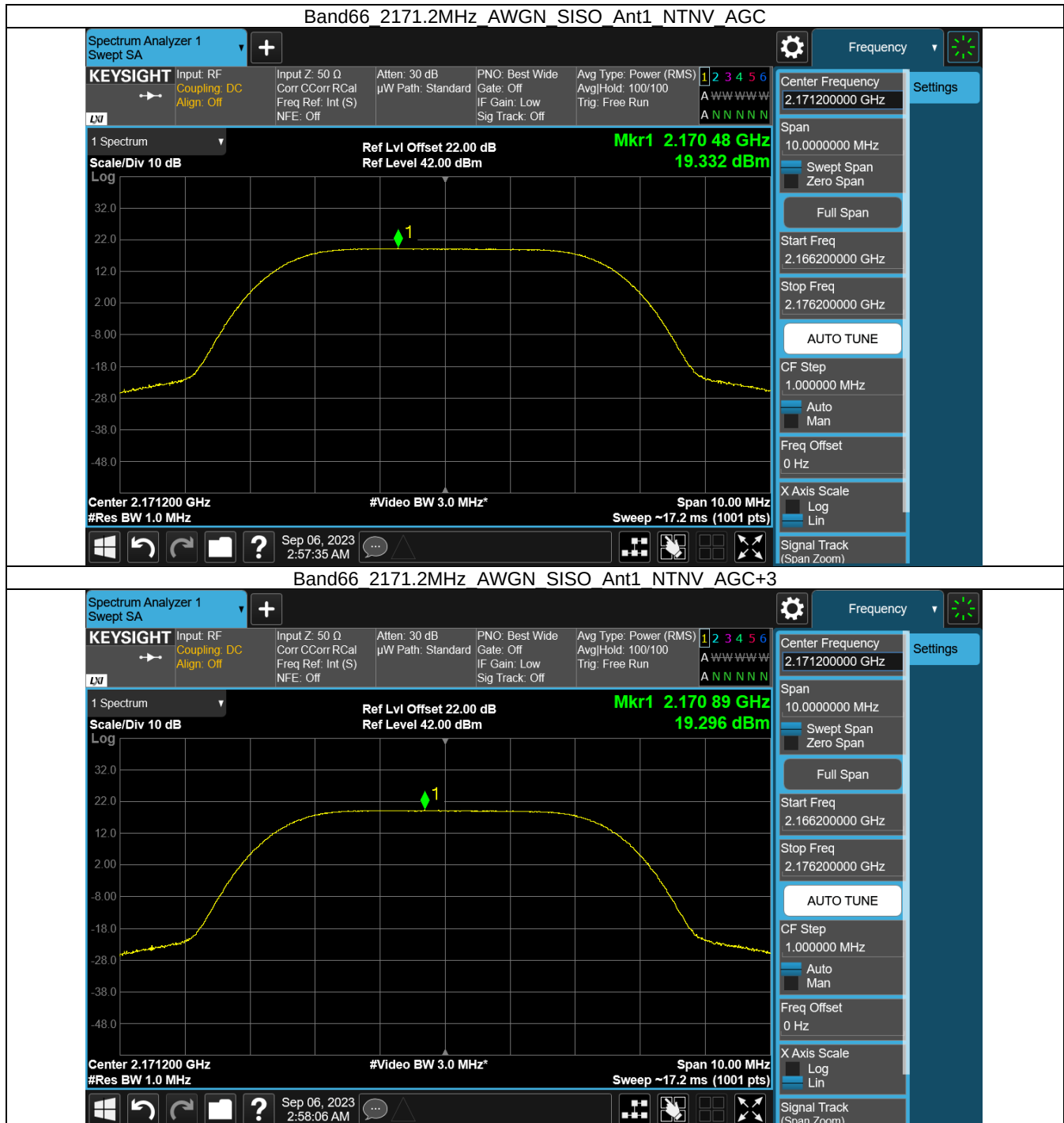
### 4.1 Band66\_EIRP

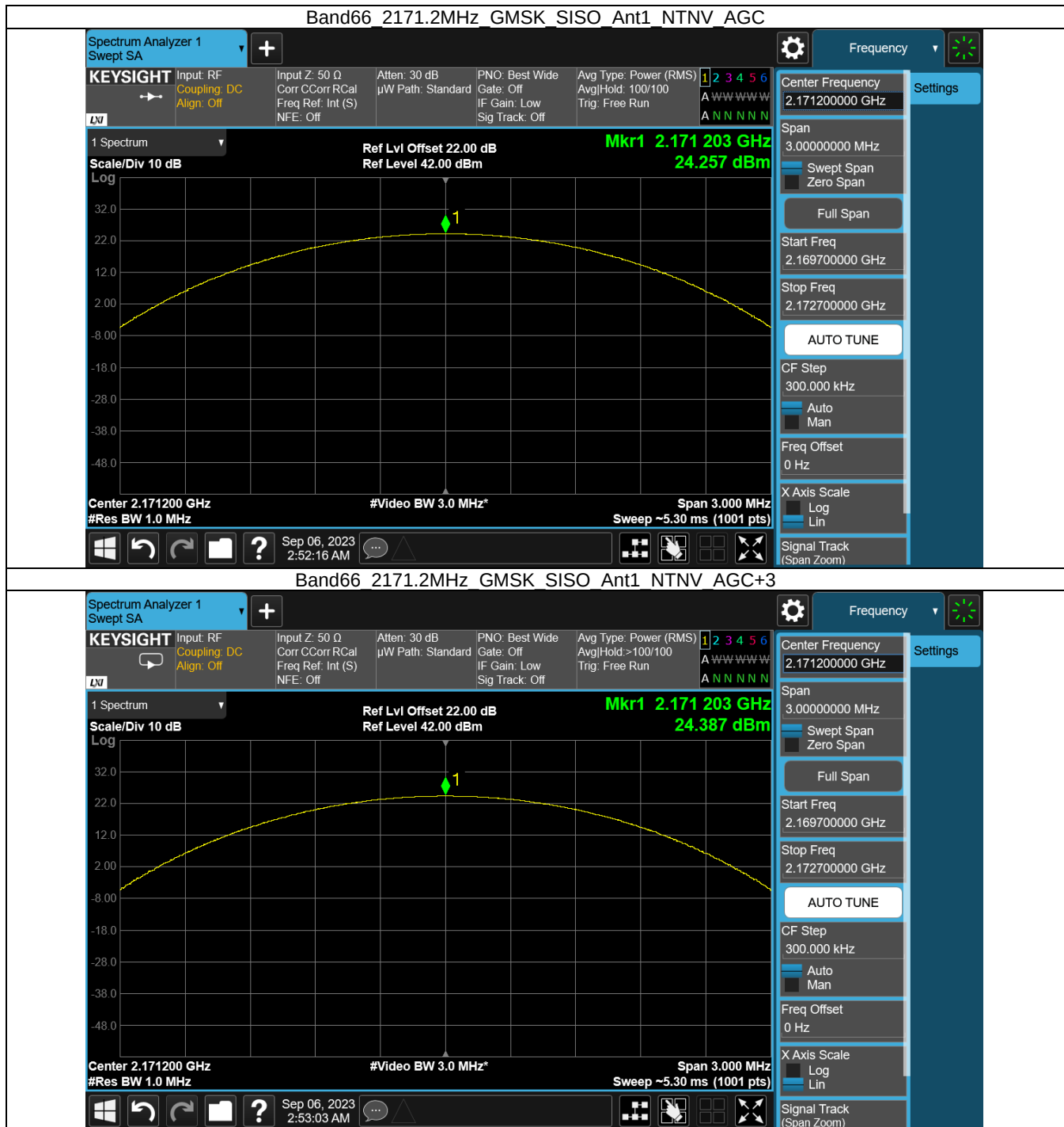
#### 4.1.1 Test Result

| Band: 66 / NTNV |             |                 |         |     |                           |       |                |         |                   |         |
|-----------------|-------------|-----------------|---------|-----|---------------------------|-------|----------------|---------|-------------------|---------|
| Signal          |             |                 | TX Type | ANT | Conducted Power (dBm/MHz) |       | EIRP (dBm/MHz) |         | Booster Gain (dB) | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Output                    | Input | Result         | Limit   |                   |         |
| AWGN            | -3          | 2171.2          | SISO    | 1   | 19.332                    | -7.72 | 24.762         | <=62.15 | 27.052            | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 19.296                    | -3.69 | 24.726         | <=62.15 | /                 | Pass    |
| GMSK            | -3          | 2171.2          | SISO    | 1   | 24.257                    | -3.12 | 29.687         | <=62.15 | 27.377            | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 24.387                    | 0.65  | 29.817         | <=62.15 | /                 | Pass    |

| 2110MHz-2200MHz / NTNV |                 |             |               |                   |                          |            |           |
|------------------------|-----------------|-------------|---------------|-------------------|--------------------------|------------|-----------|
| Operation Band         | Frequency (MHz) | Signal Type | Signal Level  | Input Power (dBm) | Total Output Power (dBm) | EIRP (dBm) | Gain (dB) |
| 2110MHz-2200MHz        | 2171.2          | AWGN        | Pre-AGC       | -3                | 24.45                    | 29.88      | /         |
|                        |                 |             | 3dB Above AGC | 0                 | 24.49                    | 29.92      | /         |
|                        | 2171.2          | GMSK        | Pre-AGC       | -3                | 24.53                    | 29.96      | /         |
|                        |                 |             | 3dB Above AGC | 0                 | 24.58                    | 30.01      | /         |

## 4.1.2 Test Graph



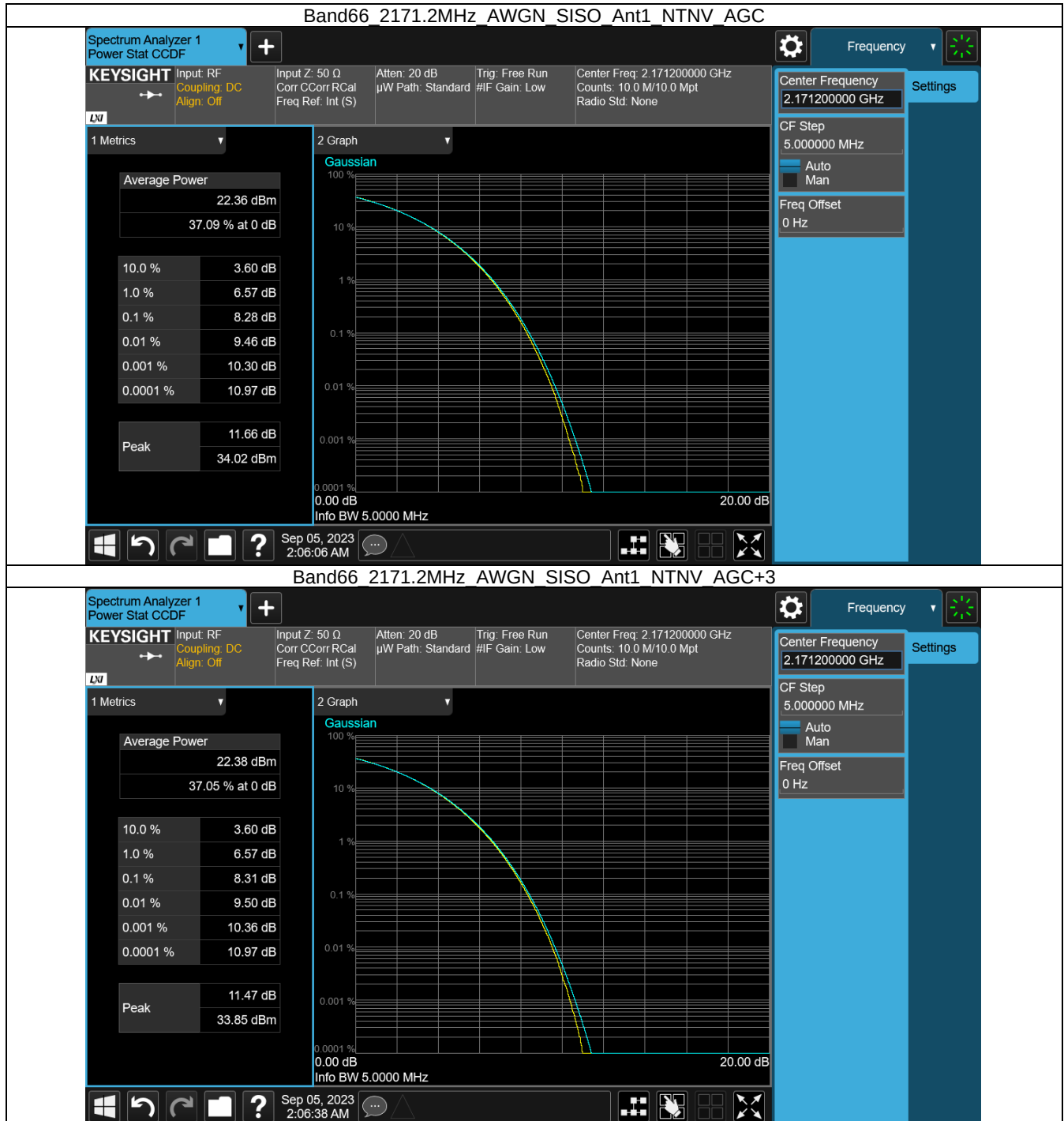


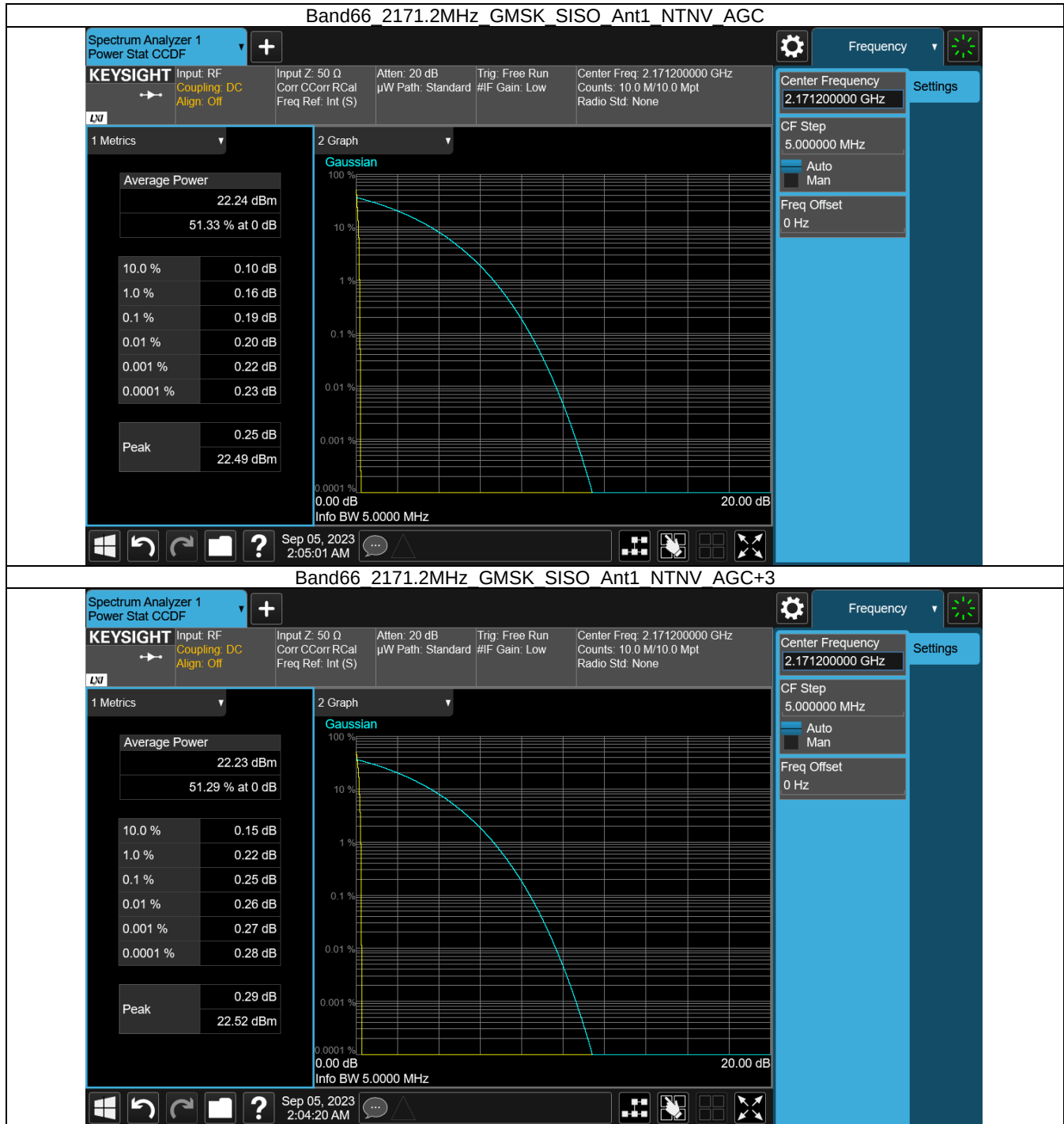
## 4.2 Band66\_PAPR

### 4.2.1 Test Result

| Band: 66 / NTNV |             |                 |         |     |           |       |         |
|-----------------|-------------|-----------------|---------|-----|-----------|-------|---------|
| Signal          |             |                 | TX Type | ANT | PAPR (dB) |       | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Result    | Limit |         |
| AWGN            | -3          | 2171.2          | SISO    | 1   | 8.28      | <=13  | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 8.31      | <=13  | Pass    |
| GMSK            | -3          | 2171.2          | SISO    | 1   | 0.19      | <=13  | Pass    |
|                 | 0           | 2171.2          | SISO    | 1   | 0.21      | <=13  | Pass    |

## 4.2.2 Test Graph





## 5. Out-of-band/out-of-block (including intermodulation) emissions

### 5.1 Band66

#### 5.1.1 Test Result

| Band: 66 / NTNV |      |             |                 |         |         |     |           |                     |         |
|-----------------|------|-------------|-----------------|---------|---------|-----|-----------|---------------------|---------|
| Signal          |      |             |                 | Channel | TX Type | ANT | OOB (dBm) |                     | Verdict |
| Input           | Type | Level (dBm) | Frequency (MHz) |         |         |     | Result    | Limit               |         |
| Two             | AWGN | -3          | 2112.5          | LCH     | SISO    | 1   | -24.663   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2112.5          | LCH     | SISO    | 1   | -23.312   | Refer To Test Graph | Pass    |
| One             | AWGN | -3          | 2112.5          | LCH     | SISO    | 1   | -25.422   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2112.5          | LCH     | SISO    | 1   | -24.751   | Refer To Test Graph | Pass    |
| Two             | AWGN | -3          | 2177.5          | HCH     | SISO    | 1   | -22.165   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2177.5          | HCH     | SISO    | 1   | -21.570   | Refer To Test Graph | Pass    |
| One             | AWGN | -3          | 2177.5          | HCH     | SISO    | 1   | -22.742   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2177.5          | HCH     | SISO    | 1   | -21.512   | Refer To Test Graph | Pass    |
| Two             | GMSK | -3          | 2110.2          | LCH     | SISO    | 1   | -34.562   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2110.2          | LCH     | SISO    | 1   | -32.284   | Refer To Test Graph | Pass    |
| One             | GMSK | -3          | 2110.2          | LCH     | SISO    | 1   | -34.908   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2110.2          | LCH     | SISO    | 1   | -32.241   | Refer To Test Graph | Pass    |
| Two             | GMSK | -3          | 2179.8          | HCH     | SISO    | 1   | -34.016   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2179.8          | HCH     | SISO    | 1   | -30.327   | Refer To Test Graph | Pass    |
| One             | GMSK | -3          | 2179.8          | HCH     | SISO    | 1   | -32.614   | Refer To Test Graph | Pass    |
|                 |      | 0           | 2179.8          | HCH     | SISO    | 1   | -31.076   | Refer To Test Graph | Pass    |

## 5.1.2 Test Graph

