

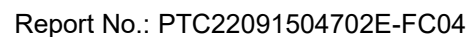


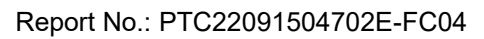
11A\_Ant1\_5745



11A\_Ant2\_5745









11N20SISO\_Ant1\_5745



11N20SISO\_Ant2\_5745





11N20SISO\_Ant1\_5785



11N20SISO\_Ant2\_5785





11N20SISO\_Ant1\_5825



11N20SISO\_Ant2\_5825





11N40SISO\_Ant1\_5755



11N40SISO\_Ant2\_5755





11N40SISO\_Ant1\_5795



11N40SISO\_Ant2\_5795





11AC20SISO\_Ant1\_5745



11AC20SISO\_Ant2\_5745





11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant2\_5785



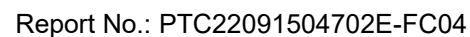


11AC20SISO\_Ant1\_5825



11AC20SISO\_Ant2\_5825





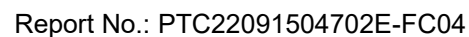


11AC40SISO\_Ant1\_5795



11AC40SISO\_Ant2\_5795





## 4.5 Peak Power Density

### 4.5.1 Applied procedures / Limit

1. For the band 5.150-5.250 GHz, the peak power spectral density shall not exceed 11 dBm in any 1000KHz band.
2. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 4.5.2 Test procedure

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01 . For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth ( $< 1$  MHz, or  $< 500$  kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
  - a) Set  $RBW \geq 1/T$ , where T is defined in section II.B.I.a).
  - b) Set  $VBW \geq 3$  RBW.
  - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/RBW)$  to the measured result, whereas RBW ( $< 500$  KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
  - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10\log(1\text{MHz}/RBW)$  to the measured result, whereas RBW ( $< 1$  MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
  - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

### 4.5.3 TEST SETUP



### 4.5.4 Deviation from standard

No deviation.



#### 4.5.5 Test results

| TestMode  | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|-----------|---------|----------------|------------------|----------------|---------|
| 11A       | Ant1    | 5180           | 4.69             | ≤11.00         | PASS    |
|           | Ant2    | 5180           | 4.8              | ≤11.00         | PASS    |
|           | Ant1    | 5220           | 4.77             | ≤11.00         | PASS    |
|           | Ant2    | 5220           | 4.92             | ≤11.00         | PASS    |
|           | Ant1    | 5240           | 4.68             | ≤11.00         | PASS    |
|           | Ant2    | 5240           | 5.6              | ≤11.00         | PASS    |
|           | Ant1    | 5745           | -0.14            | ≤30.00         | PASS    |
|           | Ant2    | 5745           | -0.04            | ≤30.00         | PASS    |
|           | Ant1    | 5785           | -0.87            | ≤30.00         | PASS    |
|           | Ant2    | 5785           | -0.17            | ≤30.00         | PASS    |
|           | Ant1    | 5825           | -1.61            | ≤30.00         | PASS    |
|           | Ant2    | 5825           | -0.65            | ≤30.00         | PASS    |
| 11N20SISO | Ant1    | 5180           | 4.79             | ≤11.00         | PASS    |
|           | Ant2    | 5180           | 5.09             | ≤11.00         | PASS    |
|           | Ant1    | 5220           | 4.25             | ≤11.00         | PASS    |
|           | Ant2    | 5220           | 4.98             | ≤11.00         | PASS    |
|           | Ant1    | 5240           | 4.47             | ≤11.00         | PASS    |
|           | Ant2    | 5240           | 4.92             | ≤11.00         | PASS    |
|           | Ant1    | 5745           | -0.84            | ≤30.00         | PASS    |
|           | Ant2    | 5745           | 0.01             | ≤30.00         | PASS    |
|           | Ant1    | 5785           | -1.02            | ≤30.00         | PASS    |
|           | Ant2    | 5785           | -0.09            | ≤30.00         | PASS    |
|           | Ant1    | 5825           | -1.85            | ≤30.00         | PASS    |
|           | Ant2    | 5825           | -0.88            | ≤30.00         | PASS    |
| 11N40SISO | Ant1    | 5190           | 1.14             | ≤11.00         | PASS    |
|           | Ant2    | 5190           | 1.75             | ≤11.00         | PASS    |
|           | Ant1    | 5230           | 1.09             | ≤11.00         | PASS    |
|           | Ant2    | 5230           | 1.72             | ≤11.00         | PASS    |
|           | Ant1    | 5755           | -3.63            | ≤30.00         | PASS    |
|           | Ant2    | 5755           | -3.62            | ≤30.00         | PASS    |
|           | Ant1    | 5795           | -4.35            | ≤30.00         | PASS    |
|           | Ant2    | 5795           | -3.2             | ≤30.00         | PASS    |



|            |      |      |       |              |      |
|------------|------|------|-------|--------------|------|
| 11AC20SISO | Ant1 | 5180 | 4.49  | $\leq 11.00$ | PASS |
|            | Ant2 | 5180 | 5.18  | $\leq 11.00$ | PASS |
|            | Ant1 | 5220 | 4.07  | $\leq 11.00$ | PASS |
|            | Ant2 | 5220 | 4.93  | $\leq 11.00$ | PASS |
|            | Ant1 | 5240 | 4.3   | $\leq 11.00$ | PASS |
|            | Ant2 | 5240 | 4.87  | $\leq 11.00$ | PASS |
|            | Ant1 | 5745 | -1.05 | $\leq 30.00$ | PASS |
|            | Ant2 | 5745 | -0.42 | $\leq 30.00$ | PASS |
|            | Ant1 | 5785 | 2.79  | $\leq 30.00$ | PASS |
|            | Ant2 | 5785 | -0.17 | $\leq 30.00$ | PASS |
|            | Ant1 | 5825 | -2    | $\leq 30.00$ | PASS |
|            | Ant2 | 5825 | -0.7  | $\leq 30.00$ | PASS |
| 11AC40SISO | Ant1 | 5190 | 1.05  | $\leq 11.00$ | PASS |
|            | Ant2 | 5190 | 1.61  | $\leq 11.00$ | PASS |
|            | Ant1 | 5230 | 1.05  | $\leq 11.00$ | PASS |
|            | Ant2 | 5230 | 2.23  | $\leq 11.00$ | PASS |
|            | Ant1 | 5755 | -3.82 | $\leq 30.00$ | PASS |
|            | Ant2 | 5755 | -3.12 | $\leq 30.00$ | PASS |
|            | Ant1 | 5795 | -4.01 | $\leq 30.00$ | PASS |
|            | Ant2 | 5795 | -3.24 | $\leq 30.00$ | PASS |
| 11AC80SISO | Ant1 | 5210 | -1.37 | $\leq 11.00$ | PASS |
|            | Ant2 | 5210 | -0.6  | $\leq 11.00$ | PASS |
|            | Ant1 | 5775 | -6.4  | $\leq 30.00$ | PASS |
|            | Ant2 | 5775 | -5.69 | $\leq 30.00$ | PASS |

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



11A\_Ant1\_5180



11A\_Ant2\_5180





11A\_Ant1\_5220



11A\_Ant2\_5220





11A\_Ant1\_5240



11A\_Ant2\_5240





11A\_Ant1\_5745



11A\_Ant2\_5745





11A\_Ant1\_5785



11A\_Ant2\_5785





11A\_Ant1\_5825



11A\_Ant2\_5825





11N20SISO\_Ant1\_5180



11N20SISO\_Ant2\_5180





11N20SISO\_Ant1\_5220



11N20SISO\_Ant2\_5220





11N20SISO\_Ant1\_5240



11N20SISO\_Ant2\_5240





11N20SISO\_Ant1\_5745



11N20SISO\_Ant2\_5745





11N20SISO\_Ant1\_5785



11N20SISO\_Ant2\_5785





11N20SISO\_Ant1\_5825



11N20SISO\_Ant2\_5825





11N40SISO\_Ant1\_5190



11N40SISO\_Ant2\_5190





11N40SISO\_Ant1\_5230



11N40SISO\_Ant2\_5230





11N40SISO\_Ant1\_5755



11N40SISO\_Ant2\_5755





11N40SISO\_Ant1\_5795



11N40SISO\_Ant2\_5795





11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant2\_5180





11AC20SISO\_Ant1\_5220



11AC20SISO\_Ant2\_5220





11AC20SISO\_Ant1\_5240



11AC20SISO\_Ant2\_5240





11AC20SISO\_Ant1\_5745



11AC20SISO\_Ant2\_5745





11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant2\_5785





11AC20SISO\_Ant1\_5825



11AC20SISO\_Ant2\_5825





11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant2\_5190





11AC40SISO\_Ant1\_5230



11AC40SISO\_Ant2\_5230





11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant2\_5755





11AC40SISO\_Ant1\_5795



11AC40SISO\_Ant2\_5795





11AC80SISO\_Ant1\_5210



11AC80SISO\_Ant2\_5210





11AC80SISO\_Ant1\_5775



11AC80SISO\_Ant2\_5775





## 4.6 Maximum Peak Output Power

### 4.6.1 Applied procedures / Limit

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

#### FCC Part15 (15.407) , Subpart E

| Section               | Test Item         | Limit                   | Frequency Range (MHz) | Result |
|-----------------------|-------------------|-------------------------|-----------------------|--------|
| 15.407(E)<br>(ii)/(3) | Peak Output Power | 0.25 watt or 23.9794dBm | 5150-5250             | PASS   |
|                       |                   | 1 watt or 30dBm         | 5725-5850             | PASS   |

### 4.6.2 Test procedure

KDB 789033 D02v01r01 - Section E) 3) b) Method PM-G

The EUT was directly connected to the spectrum .

Average power measurements were perform only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### 4.6.3 Test Setup





Report No.: PTC22091504702E-FC04

#### **4.6.4 Deviation from standard**

No deviation.

#### 4.6.5 Test results

| Test Mode     | Antenna | Frequency [MHz] | Set Power | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---------------|---------|-----------------|-----------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A           | Ant1    | 5180            | ---       | 14.02               | 97.22          | 0.12            | 14.14        | ≤23.98      | PASS    |
|               | Ant2    | 5180            | ---       | 14.09               | 97.20          | 0.12            | 14.21        | ≤23.98      | PASS    |
|               | Ant1    | 5220            | ---       | 13.87               | 96.53          | 0.15            | 14.02        | ≤23.98      | PASS    |
|               | Ant2    | 5220            | ---       | 14.45               | 97.22          | 0.12            | 14.57        | ≤23.98      | PASS    |
|               | Ant1    | 5240            | ---       | 14.33               | 97.22          | 0.12            | 14.45        | ≤23.98      | PASS    |
|               | Ant2    | 5240            | ---       | 14.41               | 97.22          | 0.12            | 14.53        | ≤23.98      | PASS    |
|               | Ant1    | 5745            | ---       | 11.37               | 97.22          | 0.12            | 11.49        | ≤30.00      | PASS    |
|               | Ant2    | 5745            | ---       | 11.56               | 97.22          | 0.12            | 11.68        | ≤30.00      | PASS    |
|               | Ant1    | 5785            | ---       | 11.02               | 97.20          | 0.12            | 11.14        | ≤30.00      | PASS    |
|               | Ant2    | 5785            | ---       | 11.76               | 97.20          | 0.12            | 11.88        | ≤30.00      | PASS    |
|               | Ant1    | 5825            | ---       | 10.16               | 97.22          | 0.12            | 10.28        | ≤30.00      | PASS    |
|               | Ant2    | 5825            | ---       | 10.93               | 97.22          | 0.12            | 11.05        | ≤30.00      | PASS    |
| 11N20SI<br>SO | Ant1    | 5180            | ---       | 14.23               | 97.01          | 0.13            | 14.36        | ≤23.98      | PASS    |
|               | Ant2    | 5180            | ---       | 14.53               | 97.04          | 0.13            | 14.66        | ≤23.98      | PASS    |
|               | MIMO    | 5180            | ---       | ---                 | ---            | ---             | 17.52        | ≤23.98      | PASS    |
|               | Ant1    | 5220            | ---       | 13.69               | 96.30          | 0.16            | 13.85        | ≤23.98      | PASS    |
|               | Ant2    | 5220            | ---       | 14.41               | 97.01          | 0.13            | 14.54        | ≤23.98      | PASS    |
|               | MIMO    | 5220            | ---       | ---                 | ---            | ---             | 17.22        | ≤23.98      | PASS    |
|               | Ant1    | 5240            | ---       | 14.22               | 96.30          | 0.16            | 14.38        | ≤23.98      | PASS    |
|               | Ant2    | 5240            | ---       | 14.21               | 97.01          | 0.13            | 14.34        | ≤23.98      | PASS    |
|               | MIMO    | 5240            | ---       | ---                 | ---            | ---             | 17.37        | ≤23.98      | PASS    |
|               | Ant1    | 5745            | ---       | 11.08               | 97.01          | 0.13            | 11.21        | ≤30.00      | PASS    |
|               | Ant2    | 5745            | ---       | 11.51               | 97.01          | 0.13            | 11.64        | ≤30.00      | PASS    |
|               | MIMO    | 5745            | ---       | ---                 | ---            | ---             | 14.44        | ≤30.00      | PASS    |
|               | Ant1    | 5785            | ---       | 10.88               | 96.30          | 0.16            | 11.04        | ≤30.00      | PASS    |
|               | Ant2    | 5785            | ---       | 11.74               | 97.04          | 0.13            | 11.87        | ≤30.00      | PASS    |
|               | MIMO    | 5785            | ---       | ---                 | ---            | ---             | 14.49        | ≤30.00      | PASS    |
|               | Ant1    | 5825            | ---       | 9.96                | 97.04          | 0.13            | 10.09        | ≤30.00      | PASS    |
|               | Ant2    | 5825            | ---       | 11.01               | 97.04          | 0.13            | 11.14        | ≤30.00      | PASS    |
|               | MIMO    | 5825            | ---       | ---                 | ---            | ---             | 13.66        | ≤30.00      | PASS    |
| 11N40SI<br>SO | Ant1    | 5190            | ---       | 13.41               | 94.20          | 0.26            | 13.67        | ≤23.98      | PASS    |
|               | Ant2    | 5190            | ---       | 13.92               | 94.20          | 0.26            | 14.18        | ≤23.98      | PASS    |

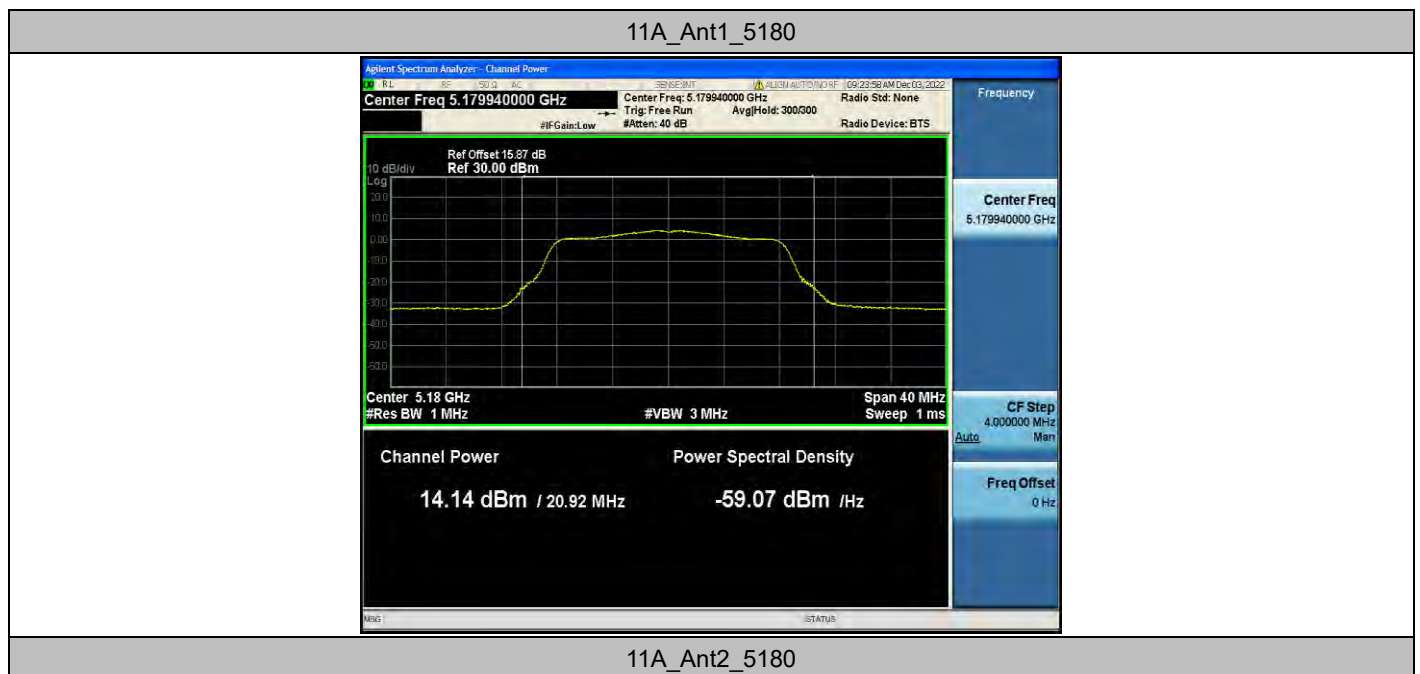


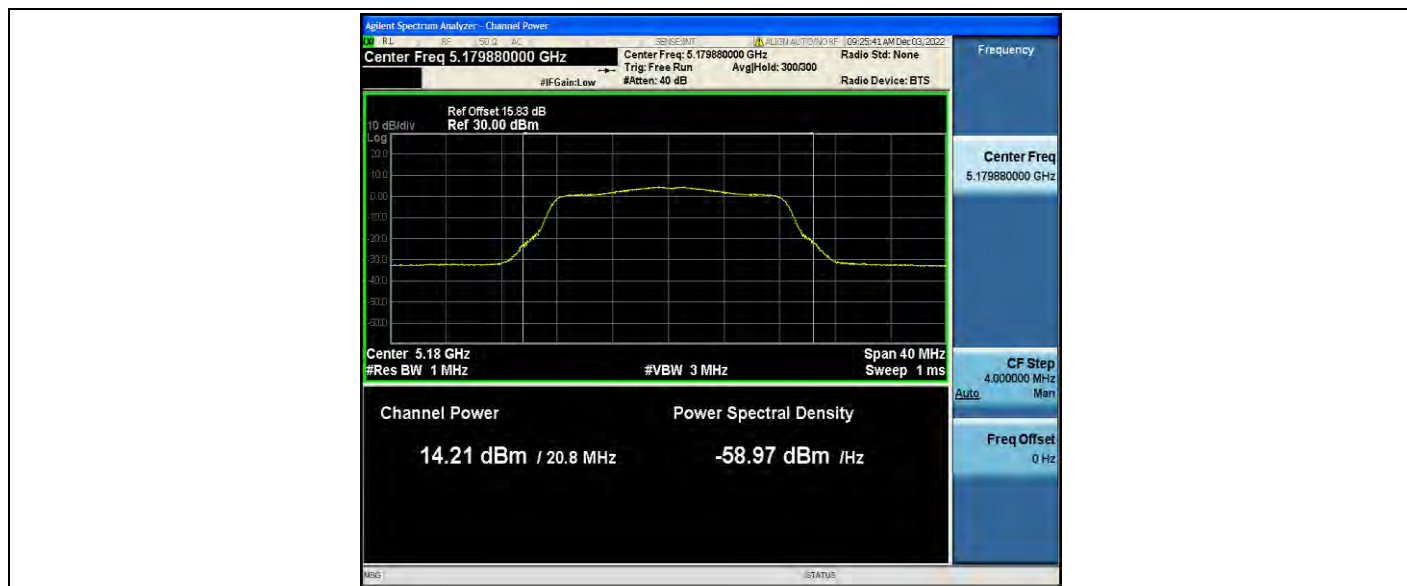
|                |      |      |     |       |       |      |       |        |      |
|----------------|------|------|-----|-------|-------|------|-------|--------|------|
|                | MIMO | 5190 | --- | ---   | ---   | ---  | 16.94 | ≤23.98 | PASS |
|                | Ant1 | 5230 | --- | 13.41 | 92.75 | 0.33 | 13.74 | ≤23.98 | PASS |
|                | Ant2 | 5230 | --- | 13.83 | 94.20 | 0.26 | 14.09 | ≤23.98 | PASS |
|                | MIMO | 5230 | --- | ---   | ---   | ---  | 16.93 | ≤23.98 | PASS |
|                | Ant1 | 5755 | --- | 11.03 | 94.20 | 0.26 | 11.29 | ≤30.00 | PASS |
|                | Ant2 | 5755 | --- | 11.51 | 94.20 | 0.26 | 11.77 | ≤30.00 | PASS |
|                | MIMO | 5755 | --- | ---   | ---   | ---  | 14.55 | ≤30.00 | PASS |
|                | Ant1 | 5795 | --- | 10.81 | 94.20 | 0.26 | 11.07 | ≤30.00 | PASS |
|                | Ant2 | 5795 | --- | 11.70 | 94.20 | 0.26 | 11.96 | ≤30.00 | PASS |
|                | MIMO | 5795 | --- | ---   | ---   | ---  | 14.55 | ≤30.00 | PASS |
| 11AC20<br>SISO | Ant1 | 5180 | --- | 14.15 | 97.06 | 0.13 | 14.28 | ≤23.98 | PASS |
|                | Ant2 | 5180 | --- | 14.41 | 97.04 | 0.13 | 14.54 | ≤23.98 | PASS |
|                | MIMO | 5180 | --- | ---   | ---   | ---  | 17.42 | ≤23.98 | PASS |
|                | Ant1 | 5220 | --- | 13.63 | 97.06 | 0.13 | 13.76 | ≤23.98 | PASS |
|                | Ant2 | 5220 | --- | 14.42 | 96.32 | 0.16 | 14.58 | ≤23.98 | PASS |
|                | MIMO | 5220 | --- | ---   | ---   | ---  | 17.20 | ≤23.98 | PASS |
|                | Ant1 | 5240 | --- | 14.19 | 97.04 | 0.13 | 14.32 | ≤23.98 | PASS |
|                | Ant2 | 5240 | --- | 14.14 | 97.06 | 0.13 | 14.27 | ≤23.98 | PASS |
|                | MIMO | 5240 | --- | ---   | ---   | ---  | 17.31 | ≤23.98 | PASS |
|                | Ant1 | 5745 | --- | 11.05 | 97.06 | 0.13 | 11.18 | ≤30.00 | PASS |
|                | Ant2 | 5745 | --- | 11.42 | 97.06 | 0.13 | 11.55 | ≤30.00 | PASS |
|                | MIMO | 5745 | --- | ---   | ---   | ---  | 14.38 | ≤30.00 | PASS |
|                | Ant1 | 5785 | --- | 11.08 | 97.06 | 0.13 | 11.21 | ≤30.00 | PASS |
|                | Ant2 | 5785 | --- | 11.90 | 97.06 | 0.13 | 12.03 | ≤30.00 | PASS |
|                | MIMO | 5785 | --- | ---   | ---   | ---  | 14.65 | ≤30.00 | PASS |
|                | Ant1 | 5825 | --- | 10.10 | 97.06 | 0.13 | 10.23 | ≤30.00 | PASS |
|                | Ant2 | 5825 | --- | 11.10 | 96.32 | 0.16 | 11.26 | ≤30.00 | PASS |
|                | MIMO | 5825 | --- | ---   | ---   | ---  | 13.79 | ≤30.00 | PASS |
| 11AC40<br>SISO | Ant1 | 5190 | --- | 13.33 | 92.86 | 0.32 | 13.65 | ≤23.98 | PASS |
|                | Ant2 | 5190 | --- | 13.67 | 94.29 | 0.26 | 13.93 | ≤23.98 | PASS |
|                | MIMO | 5190 | --- | ---   | ---   | ---  | 16.80 | ≤23.98 | PASS |
|                | Ant1 | 5230 | --- | 13.60 | 94.29 | 0.26 | 13.86 | ≤23.98 | PASS |
|                | Ant2 | 5230 | --- | 14.19 | 94.29 | 0.26 | 14.45 | ≤23.98 | PASS |
|                | MIMO | 5230 | --- | ---   | ---   | ---  | 17.18 | ≤23.98 | PASS |
|                | Ant1 | 5755 | --- | 11.22 | 94.29 | 0.26 | 11.48 | ≤30.00 | PASS |
|                | Ant2 | 5755 | --- | 11.82 | 92.86 | 0.32 | 12.14 | ≤30.00 | PASS |
|                | MIMO | 5755 | --- | ---   | ---   | ---  | 14.83 | ≤30.00 | PASS |
|                | Ant1 | 5795 | --- | 10.92 | 94.29 | 0.26 | 11.18 | ≤30.00 | PASS |



|                |      |      |     |       |       |      |       |        |      |
|----------------|------|------|-----|-------|-------|------|-------|--------|------|
|                | Ant2 | 5795 | --- | 11.91 | 92.86 | 0.32 | 12.23 | ≤30.00 | PASS |
|                | MIMO | 5795 | --- | ---   | ---   | ---  | 14.75 | ≤30.00 | PASS |
| 11AC80<br>SISO | Ant1 | 5210 | --- | 13.29 | 89.19 | 0.50 | 13.79 | ≤23.98 | PASS |
|                | Ant2 | 5210 | --- | 14.31 | 88.89 | 0.51 | 14.82 | ≤23.98 | PASS |
|                | MIMO | 5210 | --- | ---   | ---   | ---  | 17.35 | ≤23.98 | PASS |
|                | Ant1 | 5775 | --- | 11.45 | 88.89 | 0.51 | 11.96 | ≤30.00 | PASS |
|                | Ant2 | 5775 | --- | 12.02 | 88.89 | 0.51 | 12.53 | ≤30.00 | PASS |
|                | MIMO | 5775 | --- | ---   | ---   | ---  | 15.26 | ≤30.00 | PASS |

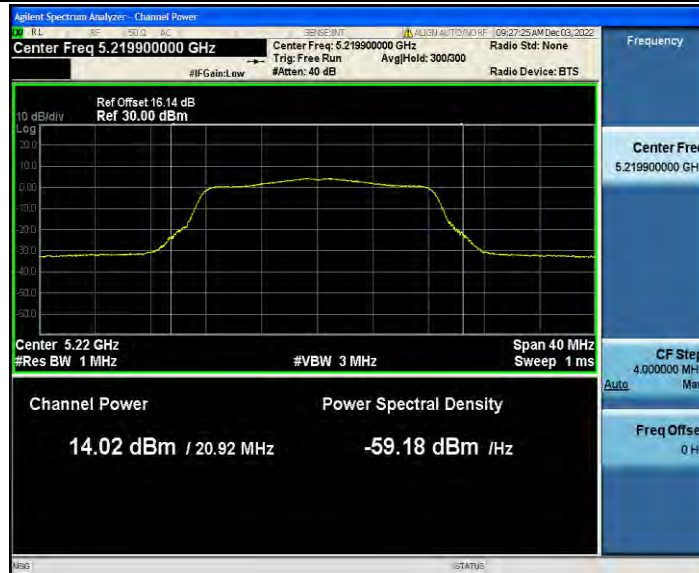
Note: The Duty Cycle Factor is compensated in the graph.



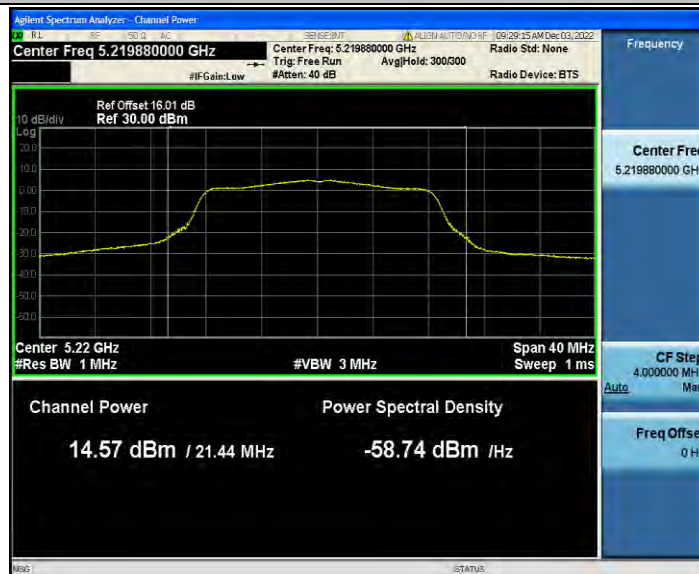




11A\_Ant1\_5220

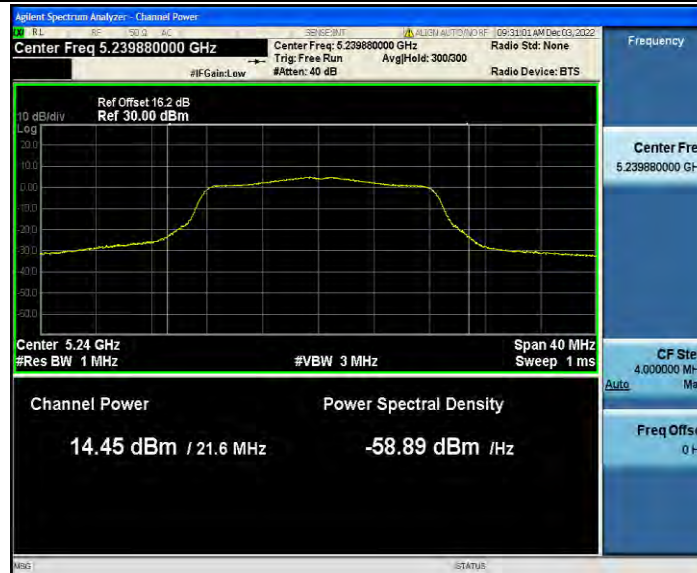


11A\_Ant2\_5220





11A\_Ant1\_5240



11A\_Ant2\_5240

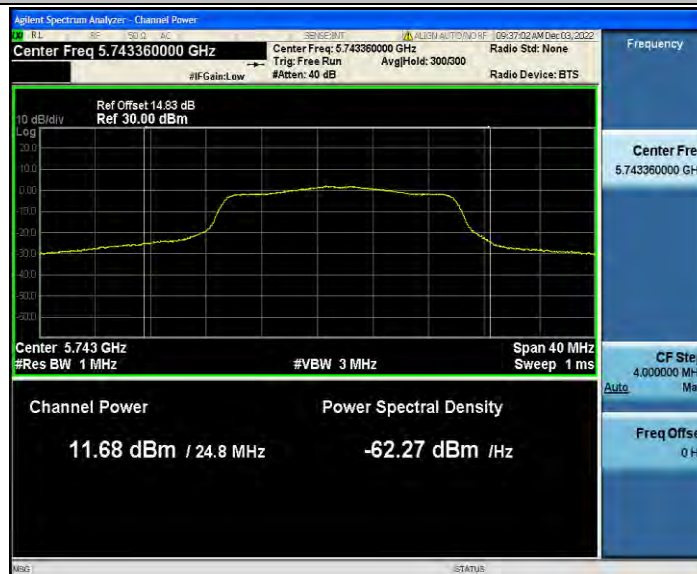




11A\_Ant1\_5745



11A\_Ant2\_5745





## 11A\_Ant1\_5785



## 11A\_Ant2\_5785





## 11A\_Ant1\_5825



## 11A\_Ant2\_5825





11N20SISO\_Ant1\_5180



11N20SISO\_Ant2\_5180





11N20SISO\_Ant1\_5220



11N20SISO\_Ant2\_5220





11N20SISO\_Ant1\_5240

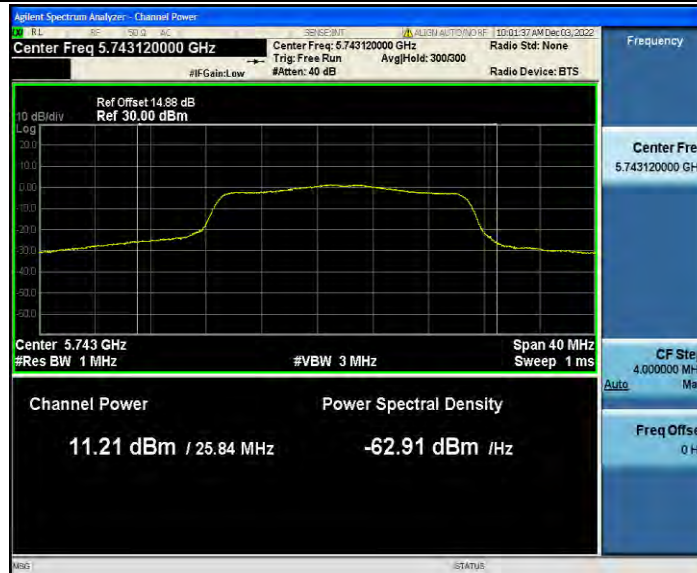


11N20SISO\_Ant2\_5240

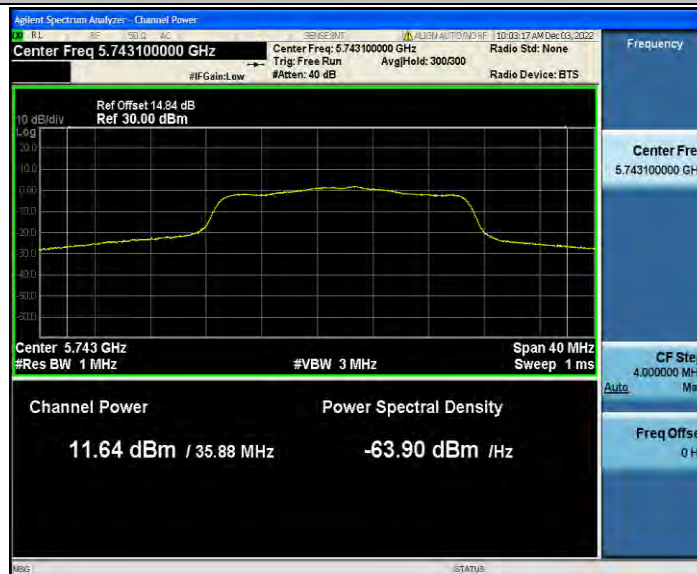




11N20SISO\_Ant1\_5745



11N20SISO\_Ant2\_5745





## 11N20SISO\_Ant1\_5785



## 11N20SISO\_Ant2\_5785





11N20SISO\_Ant1\_5825



11N20SISO\_Ant2\_5825





11N40SISO\_Ant1\_5190

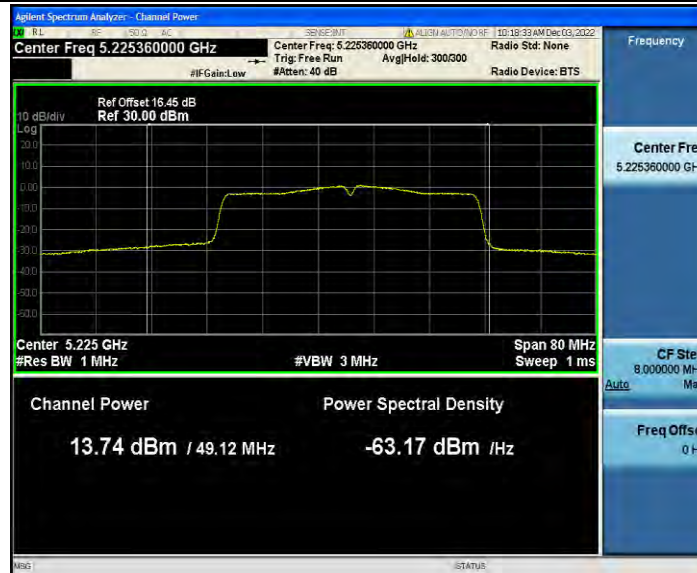


11N40SISO\_Ant2\_5190





11N40SISO\_Ant1\_5230



11N40SISO\_Ant2\_5230





11N40SISO\_Ant1\_5755



11N40SISO\_Ant2\_5755





11N40SISO\_Ant1\_5795



11N40SISO\_Ant2\_5795





11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant2\_5180





## 11AC20SISO\_Ant1\_5220



## 11AC20SISO\_Ant2\_5220





11AC20SISO\_Ant1\_5240



11AC20SISO\_Ant2\_5240





## 11AC20SISO\_Ant1\_5745



## 11AC20SISO\_Ant2\_5745





## 11AC20SISO\_Ant1\_5785



## 11AC20SISO\_Ant2\_5785





11AC20SISO\_Ant1\_5825



11AC20SISO\_Ant2\_5825





11AC40SISO\_Ant1\_5190

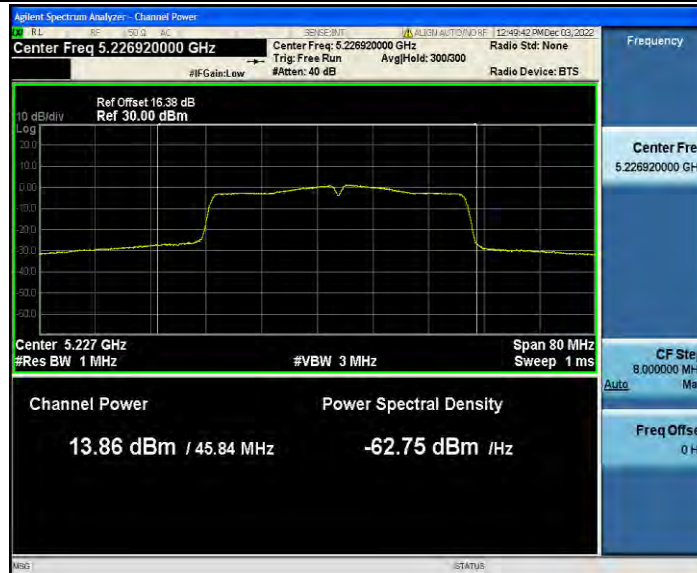


11AC40SISO\_Ant2\_5190





11AC40SISO\_Ant1\_5230



11AC40SISO\_Ant2\_5230





## 11AC40SISO\_Ant1\_5755



## 11AC40SISO\_Ant2\_5755





11AC40SISO\_Ant1\_5795



11AC40SISO\_Ant2\_5795





11AC80SISO\_Ant1\_5210

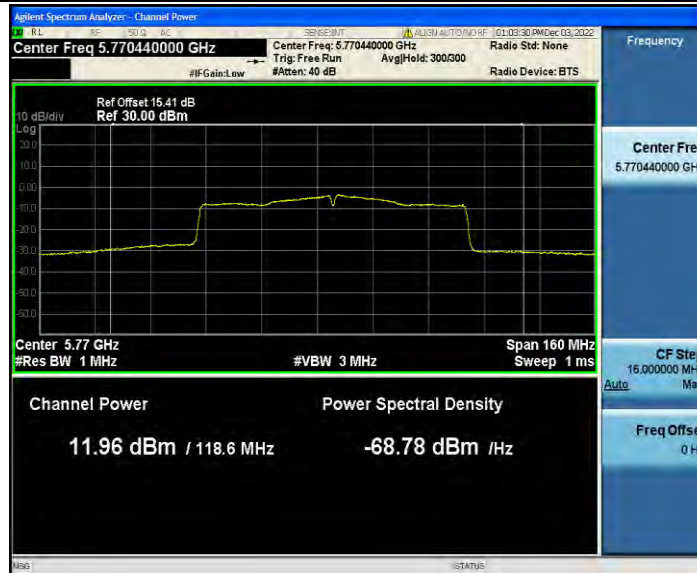


11AC80SISO\_Ant2\_5210





11AC80SISO\_Ant1\_5775



11AC80SISO\_Ant2\_5775





Report No.: PTC22091504702E-FC04



## **4.7 FREQUENCY STABILITY MEASUREMENT**

### **4.7.1 Applied procedures / Limit**

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an Emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

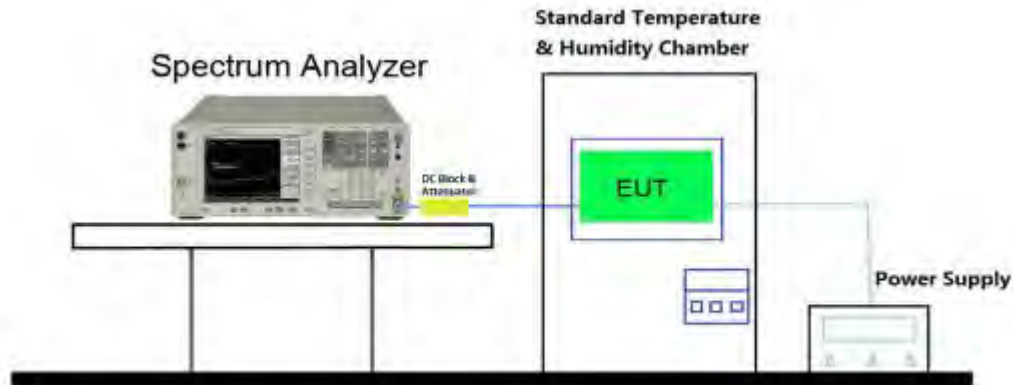
### **4.7.2 Test procedure**

1. The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20oC operating frequency as reference frequency. Turn EUT off and set the chamber temperature to  $-20^{\circ}\text{C}$ . After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with  $10^{\circ}\text{C}$  increased per stage until the highest temperature of  $+50^{\circ}\text{C}$  reached.

### **4.7.3 Deviation from standard**

No deviation.

### **4.7.4 Test setup**



#### 4.7.5 Test results

| Voltage  |         |                 |               |                  |                |                 |             |         |
|----------|---------|-----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode | Antenna | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A      | Ant1    | 5180            | NV            | NT               | -23000.00      | -4.440154       | 20          | PASS    |
|          |         |                 | LV            | NT               | -26000.00      | -5.019305       | 20          | PASS    |
|          |         |                 | HV            | NT               | -28000.00      | -5.405405       | 20          | PASS    |
|          | Ant2    | 5180            | NV            | NT               | -22000.00      | -4.247104       | 20          | PASS    |
|          |         |                 | LV            | NT               | -23000.00      | -4.440154       | 20          | PASS    |
|          |         |                 | HV            | NT               | -24000.00      | -4.633205       | 20          | PASS    |
|          | Ant1    | 5220            | NV            | NT               | -27000.00      | -5.172414       | 20          | PASS    |
|          | Ant2    | 5220            | NV            | NT               | -32000.00      | -6.130268       | 20          | PASS    |
|          |         |                 | LV            | NT               | -32000.00      | -6.130268       | 20          | PASS    |
|          |         |                 | HV            | NT               | -32000.00      | -6.130268       | 20          | PASS    |
|          | Ant1    | 5240            | NV            | NT               | -33000.00      | -6.297710       | 20          | PASS    |
|          |         |                 | LV            | NT               | -33000.00      | -6.297710       | 20          | PASS    |
|          |         |                 | HV            | NT               | -33000.00      | -6.297710       | 20          | PASS    |
|          | Ant2    | 5240            | NV            | NT               | -33000.00      | -6.297710       | 20          | PASS    |
|          |         |                 | LV            | NT               | -32000.00      | -6.106870       | 20          | PASS    |
|          |         |                 | HV            | NT               | -32000.00      | -6.106870       | 20          | PASS    |
|          | Ant1    | 5745            | NV            | NT               | -35000.00      | -6.092254       | 20          | PASS    |
|          |         |                 | LV            | NT               | -35000.00      | -6.092254       | 20          | PASS    |
|          |         |                 | HV            | NT               | -35000.00      | -6.092254       | 20          | PASS    |
|          | Ant2    | 5745            | NV            | NT               | -35000.00      | -6.092254       | 20          | PASS    |



|    |      |      |    |           |           |           |      |      |
|----|------|------|----|-----------|-----------|-----------|------|------|
|    |      |      | LV | NT        | -35000.00 | -6.092254 | 20   | PASS |
|    |      |      | HV | NT        | -35000.00 | -6.092254 | 20   | PASS |
|    | Ant1 | 5785 | NV | NT        | -35000.00 | -6.050130 | 20   | PASS |
|    |      |      | LV | NT        | -34000.00 | -5.877269 | 20   | PASS |
|    |      |      | HV | NT        | -34000.00 | -5.877269 | 20   | PASS |
|    | Ant2 | 5785 | NV | NT        | -34000.00 | -5.877269 | 20   | PASS |
|    |      |      | LV | NT        | -33000.00 | -5.704408 | 20   | PASS |
|    |      |      | HV | NT        | -33000.00 | -5.704408 | 20   | PASS |
|    | Ant1 | 5825 | NV | NT        | -35000.00 | -6.008584 | 20   | PASS |
|    |      |      | LV | NT        | -34000.00 | -5.836910 | 20   | PASS |
|    |      |      | HV | NT        | -34000.00 | -5.836910 | 20   | PASS |
|    | Ant2 | 5825 | NV | NT        | -35000.00 | -6.008584 | 20   | PASS |
| LV |      |      | NT | -34000.00 | -5.836910 | 20        | PASS |      |
| HV |      |      | NT | -34000.00 | -5.836910 | 20        | PASS |      |

|           |      |      |    |    |           |           |    |      |
|-----------|------|------|----|----|-----------|-----------|----|------|
| 11N40SISO | Ant1 | 5190 | NV | NT | -17000.00 | -3.275530 | 20 | PASS |
|           |      |      | LV | NT | -18000.00 | -3.468208 | 20 | PASS |
|           |      |      | HV | NT | -20000.00 | -3.853565 | 20 | PASS |
|           | Ant2 | 5190 | NV | NT | -33000.00 | -6.358382 | 20 | PASS |
|           |      |      | LV | NT | -32000.00 | -6.165703 | 20 | PASS |
|           |      |      | HV | NT | -32000.00 | -6.165703 | 20 | PASS |
|           | Ant1 | 5230 | NV | NT | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | LV | NT | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | HV | NT | -32000.00 | -6.118547 | 20 | PASS |
|           | Ant2 | 5230 | NV | NT | -33000.00 | -6.309751 | 20 | PASS |
|           |      |      | LV | NT | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | HV | NT | -32000.00 | -6.118547 | 20 | PASS |
|           | Ant1 | 5755 | NV | NT | -35000.00 | -6.081668 | 20 | PASS |
|           |      |      | LV | NT | -35000.00 | -6.081668 | 20 | PASS |
|           |      |      | HV | NT | -35000.00 | -6.081668 | 20 | PASS |
|           | Ant2 | 5755 | NV | NT | -35000.00 | -6.081668 | 20 | PASS |
|           |      |      | LV | NT | -34000.00 | -5.907906 | 20 | PASS |
|           |      |      | HV | NT | -33000.00 | -5.734144 | 20 | PASS |
|           | Ant1 | 5795 | NV | NT | -35000.00 | -6.039689 | 20 | PASS |
|           |      |      | LV | NT | -34000.00 | -5.867127 | 20 | PASS |
|           |      |      | HV | NT | -34000.00 | -5.867127 | 20 | PASS |
|           | Ant2 | 5795 | NV | NT | -33000.00 | -5.694564 | 20 | PASS |
|           |      |      | LV | NT | -33000.00 | -5.694564 | 20 | PASS |
|           |      |      | HV | NT | -33000.00 | -5.694564 | 20 | PASS |



|                |      |      |    |    |           |           |    |      |
|----------------|------|------|----|----|-----------|-----------|----|------|
| 11AC80SIS<br>O | Ant1 | 5210 | NV | NT | -32000.00 | -6.142035 | 20 | PASS |
|                |      |      | LV | NT | -33000.00 | -6.333973 | 20 | PASS |
|                |      |      | HV | NT | -32000.00 | -6.142035 | 20 | PASS |
|                | Ant2 | 5210 | NV | NT | -33000.00 | -6.333973 | 20 | PASS |
|                |      |      | LV | NT | -32000.00 | -6.142035 | 20 | PASS |
|                |      |      | HV | NT | -32000.00 | -6.142035 | 20 | PASS |
|                | Ant1 | 5775 | NV | NT | -35000.00 | -6.060606 | 20 | PASS |
|                |      |      | LV | NT | -35000.00 | -6.060606 | 20 | PASS |
|                |      |      | HV | NT | -35000.00 | -6.060606 | 20 | PASS |
|                | Ant2 | 5775 | NV | NT | -34000.00 | -5.887446 | 20 | PASS |
|                |      |      | LV | NT | -34000.00 | -5.887446 | 20 | PASS |
|                |      |      | HV | NT | -34000.00 | -5.887446 | 20 | PASS |

| Temperature |         |                 |               |                  |                |                 |             |         |
|-------------|---------|-----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode    | Antenna | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A         | Ant1    | 5180            | NV            | -30              | -28000.00      | -5.405405       | 20          | PASS    |
|             |         |                 | NV            | -20              | -29000.00      | -5.598456       | 20          | PASS    |
|             |         |                 | NV            | -10              | -29000.00      | -5.598456       | 20          | PASS    |
|             |         |                 | NV            | 0                | -30000.00      | -5.791506       | 20          | PASS    |
|             |         |                 | NV            | 10               | -30000.00      | -5.791506       | 20          | PASS    |
|             |         |                 | NV            | 20               | -30000.00      | -5.791506       | 20          | PASS    |
|             |         |                 | NV            | 30               | -30000.00      | -5.791506       | 20          | PASS    |
|             |         |                 | NV            | 40               | -30000.00      | -5.791506       | 20          | PASS    |
|             |         |                 | NV            | 50               | -30000.00      | -5.791506       | 20          | PASS    |
|             | Ant2    | 5180            | NV            | -30              | -24000.00      | -4.633205       | 20          | PASS    |
|             |         |                 | NV            | -20              | -24000.00      | -4.633205       | 20          | PASS    |
|             |         |                 | NV            | -10              | -25000.00      | -4.826255       | 20          | PASS    |
|             |         |                 | NV            | 0                | -25000.00      | -4.826255       | 20          | PASS    |
|             |         |                 | NV            | 10               | -25000.00      | -4.826255       | 20          | PASS    |
|             |         |                 | NV            | 20               | -25000.00      | -4.826255       | 20          | PASS    |
|             |         |                 | NV            | 30               | -25000.00      | -4.826255       | 20          | PASS    |
|             |         |                 | NV            | 40               | -25000.00      | -4.826255       | 20          | PASS    |
|             |         |                 | NV            | 50               | -26000.00      | -5.019305       | 20          | PASS    |
|             |         | 5220            | NV            | -30              | -32000.00      | -6.130268       | 20          | PASS    |
|             |         |                 | NV            | -20              | -32000.00      | -6.130268       | 20          | PASS    |
|             |         |                 | NV            | -10              | -32000.00      | -6.130268       | 20          | PASS    |
|             |         |                 | NV            | 0                | -32000.00      | -6.130268       | 20          | PASS    |



|  |      |      |    |     |           |           |    |      |
|--|------|------|----|-----|-----------|-----------|----|------|
|  |      |      | NV | 10  | -32000.00 | -6.130268 | 20 | PASS |
|  |      |      | NV | 20  | -32000.00 | -6.130268 | 20 | PASS |
|  |      |      | NV | 30  | -32000.00 | -6.130268 | 20 | PASS |
|  |      |      | NV | 40  | -32000.00 | -6.130268 | 20 | PASS |
|  |      |      | NV | 50  | -32000.00 | -6.130268 | 20 | PASS |
|  | Ant1 | 5240 | NV | -30 | -33000.00 | -6.297710 | 20 | PASS |
|  |      |      | NV | -20 | -33000.00 | -6.297710 | 20 | PASS |
|  |      |      | NV | -10 | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 0   | -33000.00 | -6.297710 | 20 | PASS |
|  |      |      | NV | 10  | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 20  | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 30  | -33000.00 | -6.297710 | 20 | PASS |
|  |      |      | NV | 40  | -33000.00 | -6.297710 | 20 | PASS |
|  |      |      | NV | 50  | -33000.00 | -6.297710 | 20 | PASS |
|  | Ant2 | 5240 | NV | -30 | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | -20 | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | -10 | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 0   | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 10  | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 20  | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 30  | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 40  | -32000.00 | -6.106870 | 20 | PASS |
|  |      |      | NV | 50  | -32000.00 | -6.106870 | 20 | PASS |
|  | Ant1 | 5745 | NV | -30 | -35000.00 | -6.092254 | 20 | PASS |
|  |      |      | NV | -20 | -35000.00 | -6.092254 | 20 | PASS |
|  |      |      | NV | -10 | -35000.00 | -6.092254 | 20 | PASS |
|  |      |      | NV | 0   | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 10  | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 20  | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 30  | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 40  | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 50  | -34000.00 | -5.918190 | 20 | PASS |
|  | Ant2 | 5745 | NV | -30 | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | -20 | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | -10 | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 0   | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 10  | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 20  | -34000.00 | -5.918190 | 20 | PASS |



|  |      |      |    |     |           |           |    |      |
|--|------|------|----|-----|-----------|-----------|----|------|
|  |      |      | NV | 30  | -34000.00 | -5.918190 | 20 | PASS |
|  |      |      | NV | 40  | -33000.00 | -5.744125 | 20 | PASS |
|  |      |      | NV | 50  | -33000.00 | -5.744125 | 20 | PASS |
|  | Ant1 | 5785 | NV | -30 | -33000.00 | -5.704408 | 20 | PASS |
|  |      |      | NV | -20 | -33000.00 | -5.704408 | 20 | PASS |
|  |      |      | NV | -10 | -33000.00 | -5.704408 | 20 | PASS |
|  |      |      | NV | 0   | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 10  | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 20  | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 30  | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 40  | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 50  | -32000.00 | -5.531547 | 20 | PASS |
|  | Ant2 | 5785 | NV | -30 | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | -20 | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | -10 | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 0   | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 10  | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 20  | -32000.00 | -5.531547 | 20 | PASS |
|  |      |      | NV | 30  | -31000.00 | -5.358686 | 20 | PASS |
|  |      |      | NV | 40  | -31000.00 | -5.358686 | 20 | PASS |
|  |      |      | NV | 50  | -31000.00 | -5.358686 | 20 | PASS |
|  | Ant1 | 5825 | NV | -30 | -34000.00 | -5.836910 | 20 | PASS |
|  |      |      | NV | -20 | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | -10 | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 0   | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 10  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 20  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 30  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 40  | -33000.00 | -5.665236 | 20 | PASS |
|  | Ant2 | 5825 | NV | 50  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | -30 | -34000.00 | -5.836910 | 20 | PASS |
|  |      |      | NV | -20 | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | -10 | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 0   | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 10  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 20  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 30  | -33000.00 | -5.665236 | 20 | PASS |
|  |      |      | NV | 40  | -33000.00 | -5.665236 | 20 | PASS |



|           |      |      |    |     |           |           |    |      |
|-----------|------|------|----|-----|-----------|-----------|----|------|
|           |      |      | NV | 50  | -33000.00 | -5.665236 | 20 | PASS |
| 11N40SISO | Ant1 | 5190 | NV | -30 | -21000.00 | -4.046243 | 20 | PASS |
|           |      |      | NV | -20 | -21000.00 | -4.046243 | 20 | PASS |
|           |      |      | NV | -10 | -23000.00 | -4.431599 | 20 | PASS |
|           |      |      | NV | 0   | -23000.00 | -4.431599 | 20 | PASS |
|           |      |      | NV | 10  | -23000.00 | -4.431599 | 20 | PASS |
|           |      |      | NV | 20  | -23000.00 | -4.431599 | 20 | PASS |
|           |      |      | NV | 30  | -23000.00 | -4.431599 | 20 | PASS |
|           |      |      | NV | 40  | -24000.00 | -4.624277 | 20 | PASS |
|           |      |      | NV | 50  | -24000.00 | -4.624277 | 20 | PASS |
|           | Ant2 | 5190 | NV | -30 | -32000.00 | -6.165703 | 20 | PASS |
|           |      |      | NV | -20 | -32000.00 | -6.165703 | 20 | PASS |
|           |      |      | NV | -10 | -32000.00 | -6.165703 | 20 | PASS |
|           |      |      | NV | 0   | -31000.00 | -5.973025 | 20 | PASS |
|           |      |      | NV | 10  | -31000.00 | -5.973025 | 20 | PASS |
|           |      |      | NV | 20  | -31000.00 | -5.973025 | 20 | PASS |
|           |      |      | NV | 30  | -31000.00 | -5.973025 | 20 | PASS |
|           |      |      | NV | 40  | -31000.00 | -5.973025 | 20 | PASS |
|           |      |      | NV | 50  | -31000.00 | -5.973025 | 20 | PASS |
|           | Ant1 | 5230 | NV | -30 | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | -20 | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | -10 | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 0   | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 10  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 20  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 30  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 40  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 50  | -32000.00 | -6.118547 | 20 | PASS |
|           | Ant2 | 5230 | NV | -30 | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | -20 | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | -10 | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 0   | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 10  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 20  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 30  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 40  | -32000.00 | -6.118547 | 20 | PASS |
|           |      |      | NV | 50  | -31000.00 | -5.927342 | 20 | PASS |
|           | Ant1 | 5755 | NV | -30 | -35000.00 | -6.081668 | 20 | PASS |



|                |      |      |    |     |           |           |    |      |
|----------------|------|------|----|-----|-----------|-----------|----|------|
|                |      |      | NV | -20 | -35000.00 | -6.081668 | 20 | PASS |
|                |      |      | NV | -10 | -35000.00 | -6.081668 | 20 | PASS |
|                |      |      | NV | 0   | -35000.00 | -6.081668 | 20 | PASS |
|                |      |      | NV | 10  | -34000.00 | -5.907906 | 20 | PASS |
|                |      |      | NV | 20  | -34000.00 | -5.907906 | 20 | PASS |
|                |      |      | NV | 30  | -34000.00 | -5.907906 | 20 | PASS |
|                |      |      | NV | 40  | -34000.00 | -5.907906 | 20 | PASS |
|                |      |      | NV | 50  | -34000.00 | -5.907906 | 20 | PASS |
|                | Ant2 | 5755 | NV | -30 | -33000.00 | -5.734144 | 20 | PASS |
|                |      |      | NV | -20 | -33000.00 | -5.734144 | 20 | PASS |
|                |      |      | NV | -10 | -33000.00 | -5.734144 | 20 | PASS |
|                |      |      | NV | 0   | -33000.00 | -5.734144 | 20 | PASS |
|                |      |      | NV | 10  | -32000.00 | -5.560382 | 20 | PASS |
|                |      |      | NV | 20  | -32000.00 | -5.560382 | 20 | PASS |
|                |      |      | NV | 30  | -33000.00 | -5.734144 | 20 | PASS |
|                |      |      | NV | 40  | -32000.00 | -5.560382 | 20 | PASS |
|                |      |      | NV | 50  | -33000.00 | -5.734144 | 20 | PASS |
|                | Ant1 | 5795 | NV | -30 | -33000.00 | -5.694564 | 20 | PASS |
|                |      |      | NV | -20 | -33000.00 | -5.694564 | 20 | PASS |
|                |      |      | NV | -10 | -33000.00 | -5.694564 | 20 | PASS |
|                |      |      | NV | 0   | -33000.00 | -5.694564 | 20 | PASS |
|                |      |      | NV | 10  | -33000.00 | -5.694564 | 20 | PASS |
|                |      |      | NV | 20  | -32000.00 | -5.522002 | 20 | PASS |
|                |      |      | NV | 30  | -32000.00 | -5.522002 | 20 | PASS |
|                |      |      | NV | 40  | -32000.00 | -5.522002 | 20 | PASS |
|                |      |      | NV | 50  | -32000.00 | -5.522002 | 20 | PASS |
|                | Ant2 | 5795 | NV | -30 | -32000.00 | -5.522002 | 20 | PASS |
|                |      |      | NV | -20 | -32000.00 | -5.522002 | 20 | PASS |
|                |      |      | NV | -10 | -32000.00 | -5.522002 | 20 | PASS |
|                |      |      | NV | 0   | -31000.00 | -5.349439 | 20 | PASS |
|                |      |      | NV | 10  | -31000.00 | -5.349439 | 20 | PASS |
|                |      |      | NV | 20  | -31000.00 | -5.349439 | 20 | PASS |
|                |      |      | NV | 30  | -31000.00 | -5.349439 | 20 | PASS |
|                |      |      | NV | 40  | -31000.00 | -5.349439 | 20 | PASS |
|                |      |      | NV | 50  | -31000.00 | -5.349439 | 20 | PASS |
| 11AC80SIS<br>O | Ant1 | 5210 | NV | -30 | -33000.00 | -6.333973 | 20 | PASS |
|                |      |      | NV | -20 | -33000.00 | -6.333973 | 20 | PASS |
|                |      |      | NV | -10 | -33000.00 | -6.333973 | 20 | PASS |



|  |      |      |    |     |           |           |    |      |
|--|------|------|----|-----|-----------|-----------|----|------|
|  |      |      | NV | 0   | -33000.00 | -6.333973 | 20 | PASS |
|  |      |      | NV | 10  | -33000.00 | -6.333973 | 20 | PASS |
|  |      |      | NV | 20  | -33000.00 | -6.333973 | 20 | PASS |
|  |      |      | NV | 30  | -33000.00 | -6.333973 | 20 | PASS |
|  |      |      | NV | 40  | -33000.00 | -6.333973 | 20 | PASS |
|  |      |      | NV | 50  | -33000.00 | -6.333973 | 20 | PASS |
|  | Ant2 | 5210 | NV | -30 | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | -20 | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | -10 | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | 0   | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | 10  | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | 20  | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | 30  | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | 40  | -32000.00 | -6.142035 | 20 | PASS |
|  |      |      | NV | 50  | -32000.00 | -6.142035 | 20 | PASS |
|  | Ant1 | 5775 | NV | -30 | -35000.00 | -6.060606 | 20 | PASS |
|  |      |      | NV | -20 | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | -10 | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | 0   | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | 10  | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | 20  | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | 30  | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | 40  | -34000.00 | -5.887446 | 20 | PASS |
|  |      |      | NV | 50  | -33000.00 | -5.714286 | 20 | PASS |
|  | Ant2 | 5775 | NV | -30 | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | -20 | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | -10 | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | 0   | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | 10  | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | 20  | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | 30  | -32000.00 | -5.541126 | 20 | PASS |
|  |      |      | NV | 40  | -33000.00 | -5.714286 | 20 | PASS |
|  |      |      | NV | 50  | -32000.00 | -5.541126 | 20 | PASS |



## **4.8 AUTOMATICALLY DISCONTINUE TRANSMISSION**

### **4.8.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **4.8.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION**

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

## **4.9 ANTENNA REQUIREMENT**

### **4.9.1 STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

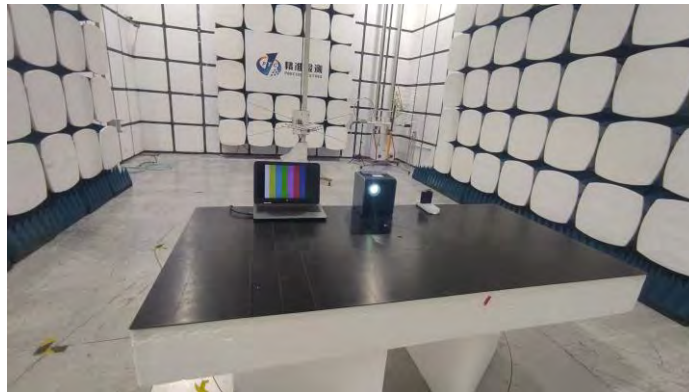
### **4.9.2 EUT ANTENNA**

The EUT'S antenna, permanent attached antenna, is Fpcb Antenna. The antenna's gain is 1.61dBi and meets the requirement.

## 5 Photographs

### 5.1 Radiated Emission Test Setup

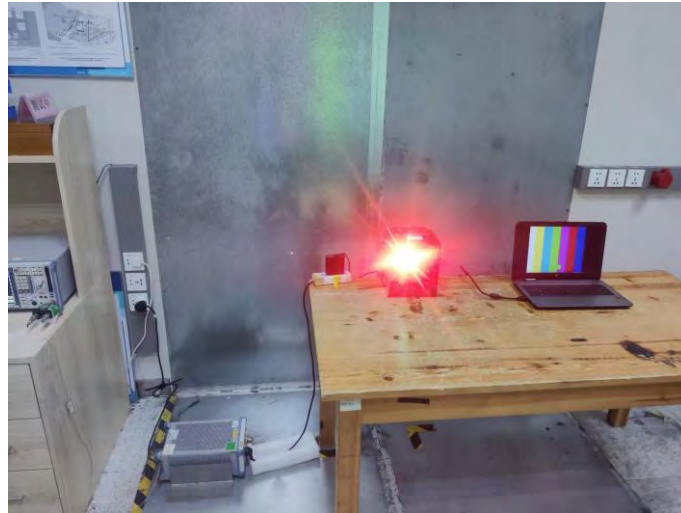
**Below 1G**



**Above 1G**



## 5.2 Conduction Emission Test Setup





Report No.: PTC22091504702E-FC04

### **5.3 EUT Constructional Details**

Reference file "EUT photo"

**\*\*End of report\*\***