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Shenzhen Branch**

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Report No.: SZEM170500530604  
Page: 1 of 56

## **TEST REPORT**

**Application No.:** SZEM1705005306CR  
**Applicant:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Applicant:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO. 18 Gaoxin  
South 4th Ave, Nanshan District, Shenzhen, China  
**Manufacturer:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Manufacturer:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO. 18 Gaoxin  
South 4th Ave, Nanshan District, Shenzhen, China  
**Factory:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Factory:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO. 18 Gaoxin  
South 4th Ave, Nanshan District, Shenzhen, China  
**Equipment Under Test (EUT):**  
**EUT Name:** C1  
**Model No.:** GL358wD  
**Trade mark:** DJI  
**FCC ID:** SS3-GL358WD1705  
**Standards:** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2017-05-31  
**Date of Test:** 2017-06-02 to 2017-06-19  
**Date of Issue:** 2017-06-23

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>Pass*</b> |
|----------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.



Jack Zhang  
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2017-06-23 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                                                                                    |  |  |
|--------------------------|--|------------------------------------------------------------------------------------|--|--|
| Authorized for issue by: |  |                                                                                    |  |  |
|                          |  |   |  |  |
|                          |  | <hr/> Hank Yan /Project Engineer                                                   |  |  |
|                          |  |  |  |  |
|                          |  | <hr/> Eric Fu /Reviewer                                                            |  |  |



## 2 Test Summary

| Radio Spectrum Technical Requirement |                                  |        |                                      |        |
|--------------------------------------|----------------------------------|--------|--------------------------------------|--------|
| Item                                 | Standard                         | Method | Requirement                          | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart E 15.407 | N/A    | 47 CFR Part 15, Subpart C 15.203     | Pass   |
| Transmission in the Absence of Data  | 47 CFR Part 15, Subpart E 15.407 | N/A    | 47 CFR Part 15, Subpart E 15.407 (c) | Pass   |

N/A: Not applicable

| Radio Spectrum Matter Part                            |                                  |                                |                                              |        |
|-------------------------------------------------------|----------------------------------|--------------------------------|----------------------------------------------|--------|
| Item                                                  | Standard                         | Method                         | Requirement                                  | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart E 15.407 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207             | Pass   |
| 99% Bandwidth                                         | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 II D                | N/A                                          | Pass   |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band )         | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 D02 II C 2          | 47 CFR Part 15, Subpart E 15.407 (e)         | Pass   |
| Maximum Conducted output power                        | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 D02 II E            | 47 CFR Part 15, Subpart E 15.407 (a)         | Pass   |
| Peak Power spectrum density                           | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 D02 II F            | 47 CFR Part 15, Subpart E 15.407 (a)         | Pass   |
| Radiated Emissions                                    | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 D02 II G            | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | Pass   |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 D02 II G            | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | Pass   |
| Frequency Stability                                   | 47 CFR Part 15, Subpart E 15.407 | ANSI C63.10 (2013) Section 6.8 | 47 CFR Part 15, Subpart E 15.407 (g)         | Pass   |

N/A: Not applicable



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## 4 General Information

### 4.1 Details of E.U.T.

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Power supply:        | DC 3.7V Li-ion Battery<br>Charged by DC 5V via USB port |
| Operation Frequency: | 5745MHz to 5825MHz                                      |
| Modulation Type:     | OFDM                                                    |
| Channel Numbers:     | 17                                                      |
| Antenna Type:        | PCB Antenna                                             |
| Antenna Gain:        | 3.1dBi (2x2 MIMO)                                       |

| Channel list |           |         |           |         |           |         |           |
|--------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel      | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1            | 5745.00   | 6       | 5770.00   | 11      | 5795.00   | 16      | 5820.00   |
| 2            | 5750.00   | 7       | 5775.00   | 12      | 5800.00   | 17      | 5825.00   |
| 3            | 5755.00   | 8       | 5780.00   | 13      | 5805.00   |         |           |
| 4            | 5760.00   | 9       | 5785.00   | 14      | 5810.00   |         |           |
| 5            | 5765.00   | 10      | 5790.00   | 15      | 5815.00   |         |           |

| Selected Test Channel      |           |
|----------------------------|-----------|
| Channel                    | Frequency |
| The lowest channel (CH1)   | 5745MHz   |
| The middle channel (CH9)   | 5785MHz   |
| The highest channel (CH17) | 5825MHz   |

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.



### 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.25 \times 10^{-8}$   |
| 2   | Duty cycle                      | 0.37%                   |
| 3   | Occupied Bandwidth              | 3%                      |
| 4   | RF conducted power              | 0.75dB                  |
| 5   | RF power density                | 2.84dB                  |
| 6   | Conducted Spurious emissions    | 0.75dB                  |
| 7   | RF Radiated power               | 4.5dB (below 1GHz)      |
|     |                                 | 4.8dB (above 1GHz)      |
| 8   | Radiated Spurious emission test | 4.5dB (30MHz-1GHz)      |
|     |                                 | 4.8dB (1GHz-18GHz)      |
| 9   | Temperature test                | 1 °C                    |
| 10  | Humidity test                   | 3%                      |
| 11  | Supply voltages                 | 1.5%                    |
| 12  | Time                            | 3%                      |



#### **4.4 Test Location**

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.  
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### **4.5 Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

#### **4.6 Deviation from Standards**

None

#### **4.7 Abnormalities from Standard Conditions**

None





## 5 Equipment List

| RF Conducted Test |                 |          |              |            |              |
|-------------------|-----------------|----------|--------------|------------|--------------|
| Equipment         | Manufacturer    | Model No | Inventory No | Cal Date   | Cal Due Date |
| DC Power Supply   | ZhaoXin         | RXN-305D | SEM011-02    | 2016-10-09 | 2017-10-09   |
| Spectrum Analyzer | Rohde & Schwarz | FSP      | SEM004-06    | 2016-10-09 | 2017-10-09   |
| Power Meter       | Rohde & Schwarz | NRVS     | SEM014-02    | 2016-10-09 | 2017-10-09   |

| Radiated Spurious Emissions    |                          |                   |              |            |              |
|--------------------------------|--------------------------|-------------------|--------------|------------|--------------|
| Equipment                      | Manufacturer             | Model No          | Inventory No | Cal Date   | Cal Due Date |
| 3m Semi-Anechoic Chamber       | AUDIX                    | N/A               | SEM001-02    | 2017-05-10 | 2018-05-10   |
| EXA Spectrum Analyzer          | Agilent Technologies Inc | N9010A            | SEM004-09    | 2016-07-19 | 2017-07-19   |
| BiConiLog Antenna (26-3000MHz) | ETS-Lindgren             | 3142C             | SEM003-02    | 2014-11-15 | 2017-11-15   |
| Amplifier (0.1-1300MHz)        | HP                       | 8447D             | SEM005-02    | 2016-10-09 | 2017-10-09   |
| Horn Antenna (1-18GHz)         | Rohde & Schwarz          | HF907             | SEM003-07    | 2015-06-14 | 2018-06-14   |
| Horn Antenna (18-26GHz)        | ETS-Lindgren             | 3160              | SEM003-12    | 2014-11-24 | 2017-11-24   |
| Horn Antenna(26GHz-40GHz)      | A.H.Systems, inc.        | SAS-573           | SEM003-13    | 2015-02-12 | 2018-02-12   |
| Low Noise Amplifier            | Black Diamond Series     | BDLNA-0118-352810 | SEM005-05    | 2016-10-09 | 2017-10-09   |
| Band filter                    | Amindeon                 | Asi 3314          | SEM023-01    | N/A        | N/A          |

| General used equipment          |                                           |          |              |            |              |
|---------------------------------|-------------------------------------------|----------|--------------|------------|--------------|
| Equipment                       | Manufacturer                              | Model No | Inventory No | Cal Date   | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory  | ZJ1-2B   | SEM002-03    | 2016-10-12 | 2017-10-12   |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory  | ZJ1-2B   | SEM002-04    | 2016-10-12 | 2017-10-12   |
| Humidity/ Temperature Indicator | Mingle                                    | N/A      | SEM002-08    | 2016-10-12 | 2017-10-12   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3     | SEM002-01    | 2017-04-18 | 2018-04-18   |

## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

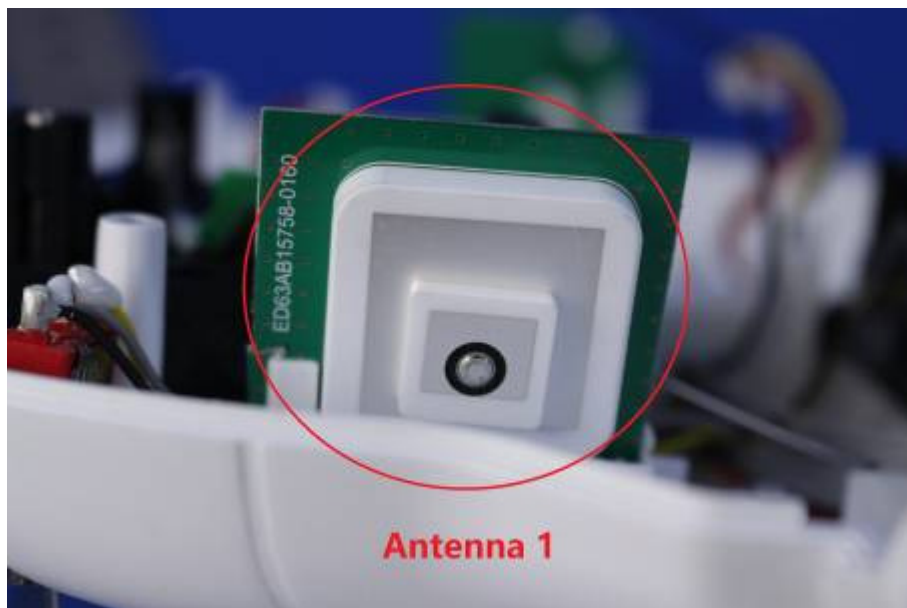
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

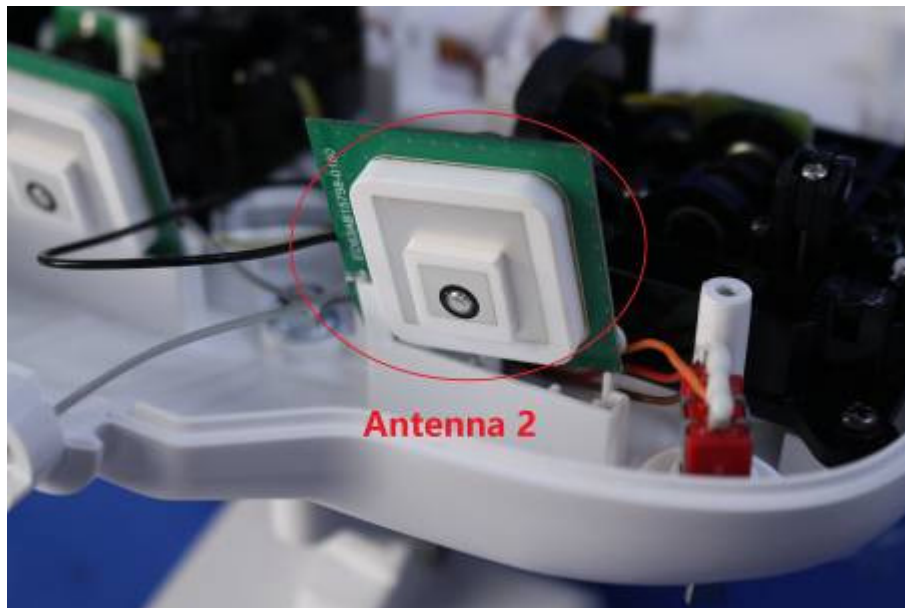
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.1dBi.

Direction Gain = 3.1dBi + 10 x log(2) = 6.1dBi

Ant1



Ant2





## **6.2 Transmission in the Absence of Data**

### **6.2.1 Test Requirement:**

47 CFR Part 15, Subpart E 15.407 (c)

### **6.2.2 Conclusion**

Standard Requirement:

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 signalling 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 a description of how this requirement is met.

EUT Details:

RF chip (AR9342) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207  
Test Method: ANSI C63.10 (2013) Section 6.2  
Limit:

| Frequency range (MHz) | Limit (dBuV) |           |
|-----------------------|--------------|-----------|
|                       | Quasi-peak   | Average   |
| 0.15-0.5              | 66 to 56*    | 56 to 46* |
| 0.5-5                 | 56           | 46        |
| 5-30                  | 60           | 50        |

\* Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Pretest these f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

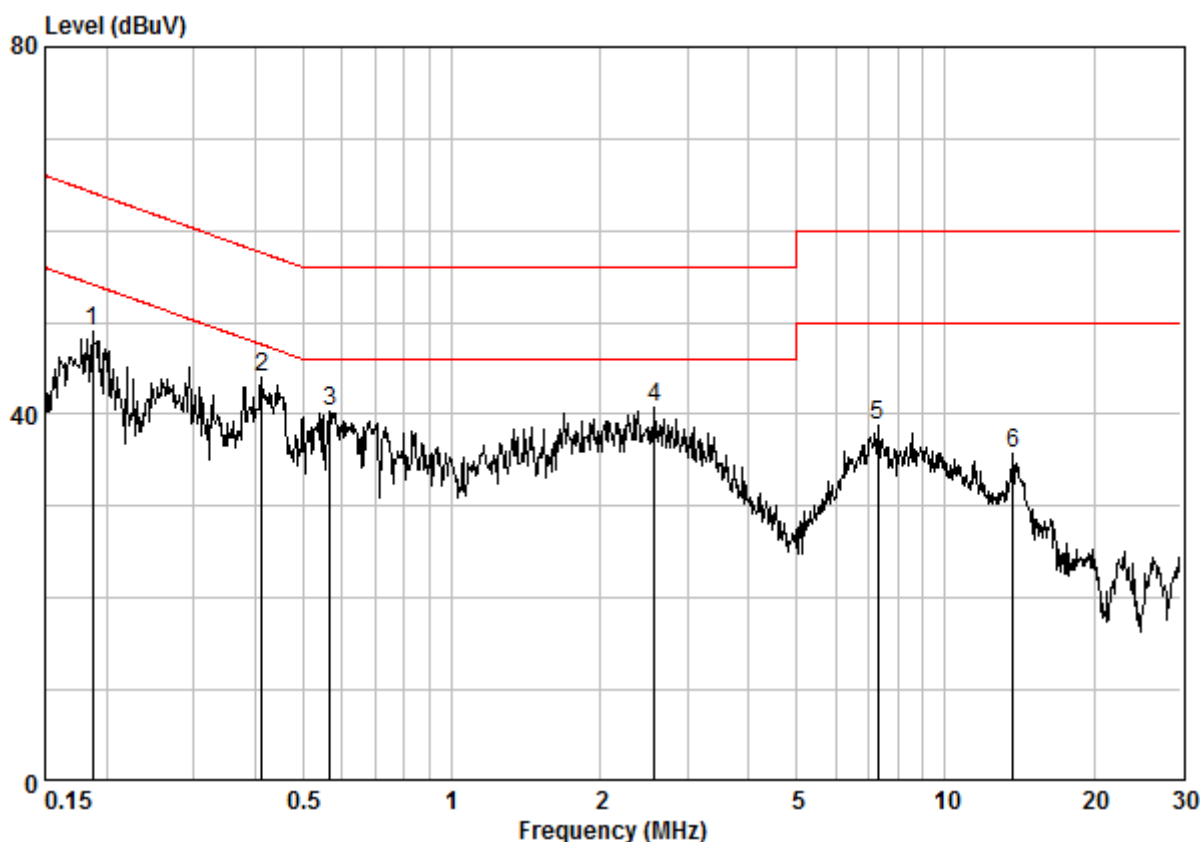
mode to find the g:Charge + TX mode\_Keep the EUT in charging and continuously transmitting with modulation mode.

worst case:  
The worst case g:Charge + TX mode\_Keep the EUT in charging and continuously transmitting with modulation mode.  
for final test:

#### 7.1.2 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

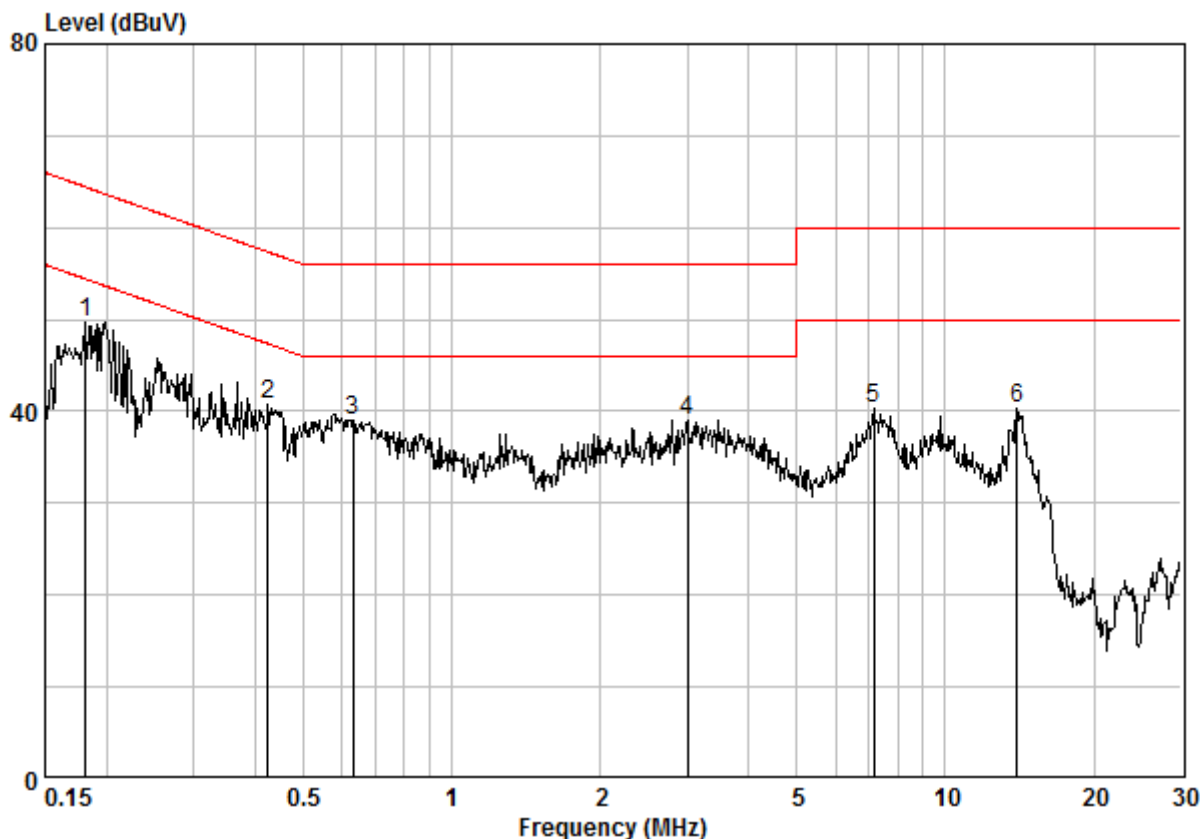
Mode:g; Line:Live Line



Site : Shielding Room  
Condition : CE LINE  
Job No. : 05306CR  
Test Mode : g

|   | Freq    | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|-------------|------------|-------|------------|------------|--------|
|   | MHz     | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |        |
| 1 | 0.18738 | 0.02       | 9.64        | 39.39      | 49.05 | 54.15      | -5.10      | Peak   |
| 2 | 0.41266 | 0.02       | 9.64        | 34.42      | 44.08 | 47.59      | -3.51      | Peak   |
| 3 | 0.56709 | 0.02       | 9.65        | 30.59      | 40.26 | 46.00      | -5.74      | Peak   |
| 4 | 2.581   | 0.03       | 9.68        | 30.97      | 40.68 | 46.00      | -5.32      | Peak   |
| 5 | 7.290   | 0.09       | 9.80        | 28.90      | 38.79 | 50.00      | -11.21     | Peak   |
| 6 | 13.695  | 0.15       | 9.93        | 25.72      | 35.80 | 50.00      | -14.20     | Peak   |

Mode:g; Line:Neutral Line



Site : Shielding Room  
Condition : CE NEUTRAL  
Job No. : 05306CR  
Test Mode : g

|   | Freq    | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|-------------|------------|-------|------------|------------|--------|
|   | MHz     | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |        |
| 1 | 0.18152 | 0.02       | 9.63        | 40.13      | 49.78 | 54.42      | -4.64      | Peak   |
| 2 | 0.42373 | 0.02       | 9.63        | 31.06      | 40.71 | 47.37      | -6.66      | Peak   |
| 3 | 0.63048 | 0.02       | 9.63        | 29.35      | 39.00 | 46.00      | -7.00      | Peak   |
| 4 | 3.009   | 0.03       | 9.67        | 29.33      | 39.03 | 46.00      | -6.97      | Peak   |
| 5 | 7.175   | 0.08       | 9.77        | 30.56      | 40.42 | 50.00      | -9.59      | Peak   |
| 6 | 13.989  | 0.15       | 9.95        | 30.30      | 40.40 | 50.00      | -9.60      | Peak   |

## 7.2 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

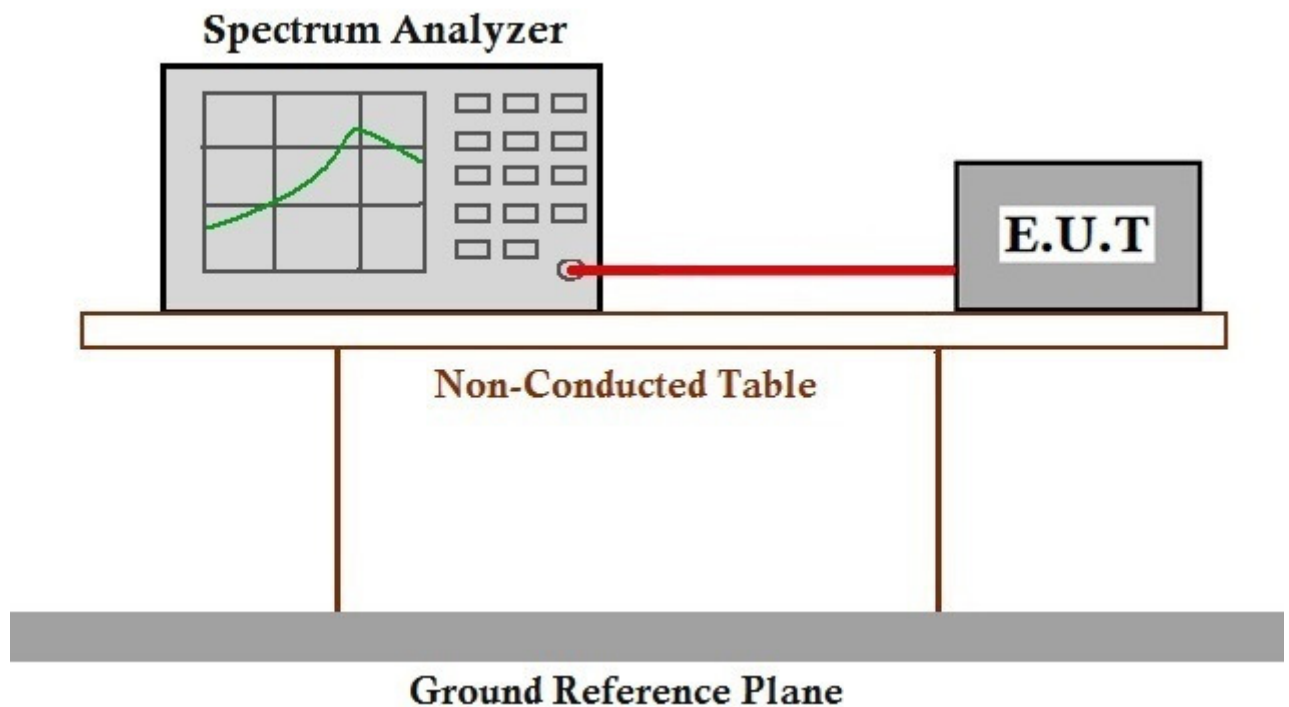
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Test mode f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



### 7.3 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)  
 Test Method: KDB 789033 D02 II C 2  
 Limit:  $\geq 500$  kHz

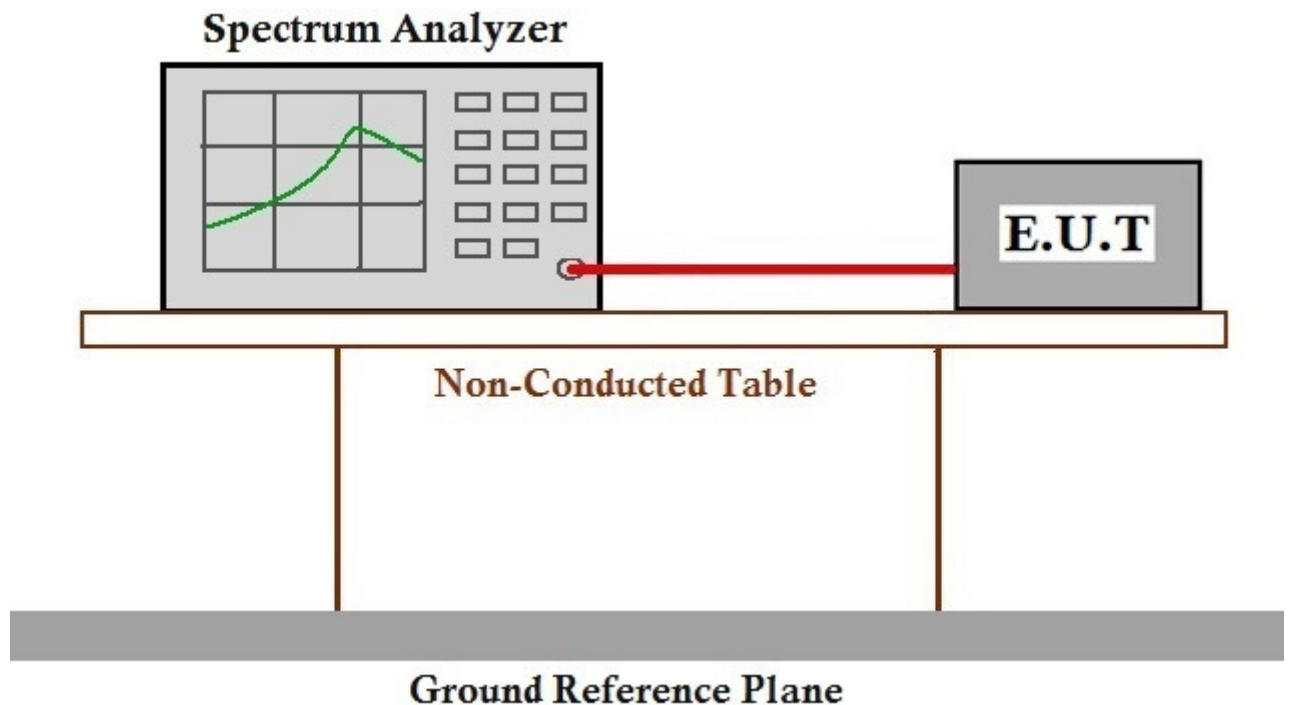
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Test mode f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



#### 7.4 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

| Frequency band(MHz) | Limit                                                                            |
|---------------------|----------------------------------------------------------------------------------|
| 5150-5250           | $\leq 1\text{W}(30\text{dBm})$ for master device                                 |
|                     | $\leq 250\text{mW}(24\text{dBm})$ for client device                              |
| 5250-5350           | $\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$ |
| 5470-5725           | $\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$ |
| 5725-5850           | $\leq 1\text{W}(30\text{dBm})$                                                   |

Remark: \*Where B is the 26dB emission bandwidth in MHz.

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

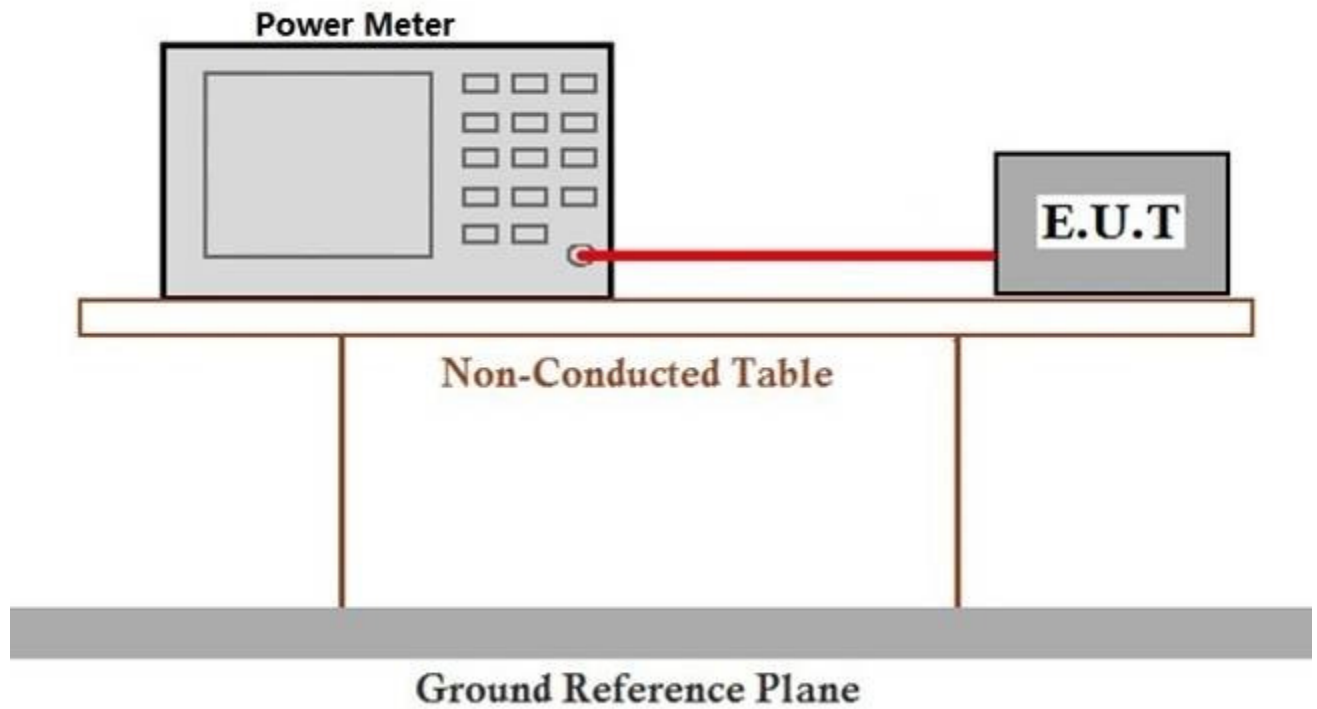
#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Test mode f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

#### 7.4.2 Test Setup Diagram



#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

## 7.5 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)  
Test Method: KDB 789033 D02 II F  
Limit:

| Frequency band(MHz) | Limit                            |
|---------------------|----------------------------------|
| 5150-5250           | ≤17dBm in 1MHz for master device |
|                     | ≤11dBm in 1MHz for client device |
| 5250-5350           | ≤11dBm in 1MHz for client device |
| 5470-5725           | ≤11dBm in 1MHz for client device |
| 5725-5850           | ≤30dBm in 500 kHz                |

Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

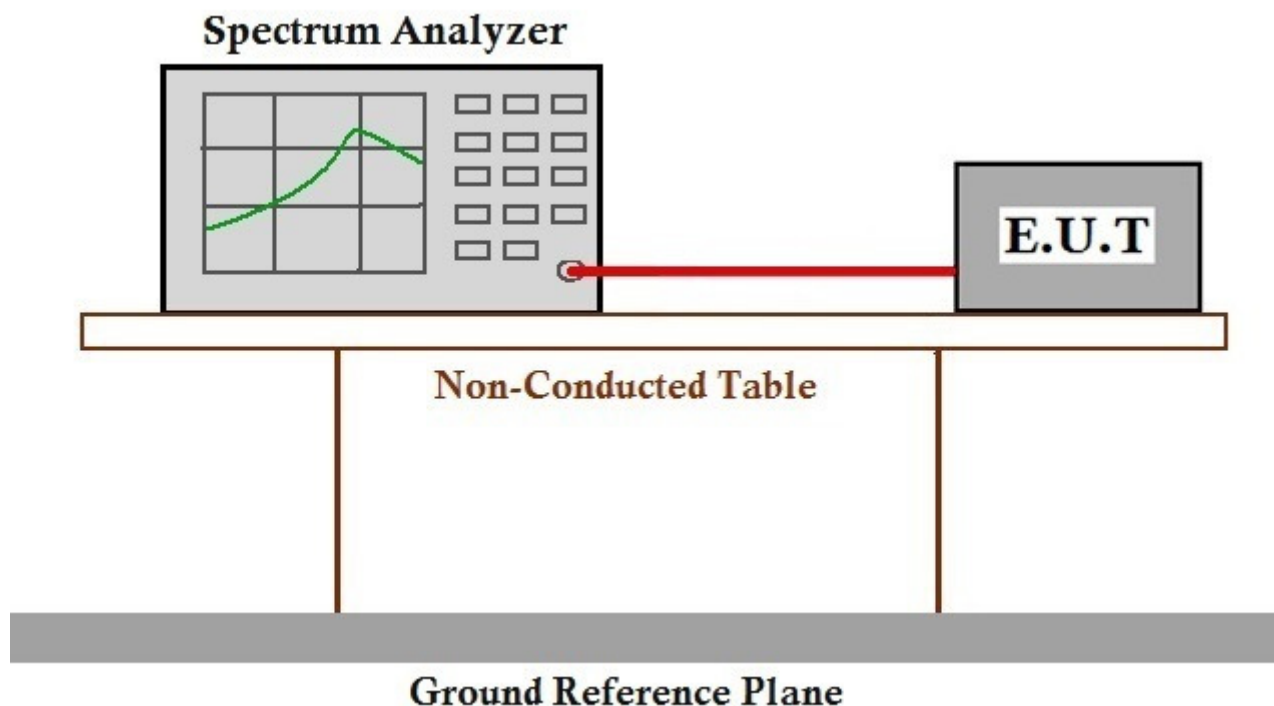
### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Test mode f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

### 7.5.2 Test Setup Diagram



### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

## 7.6 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

### 7.6.1 E.U.T. Operation

Operating Environment:

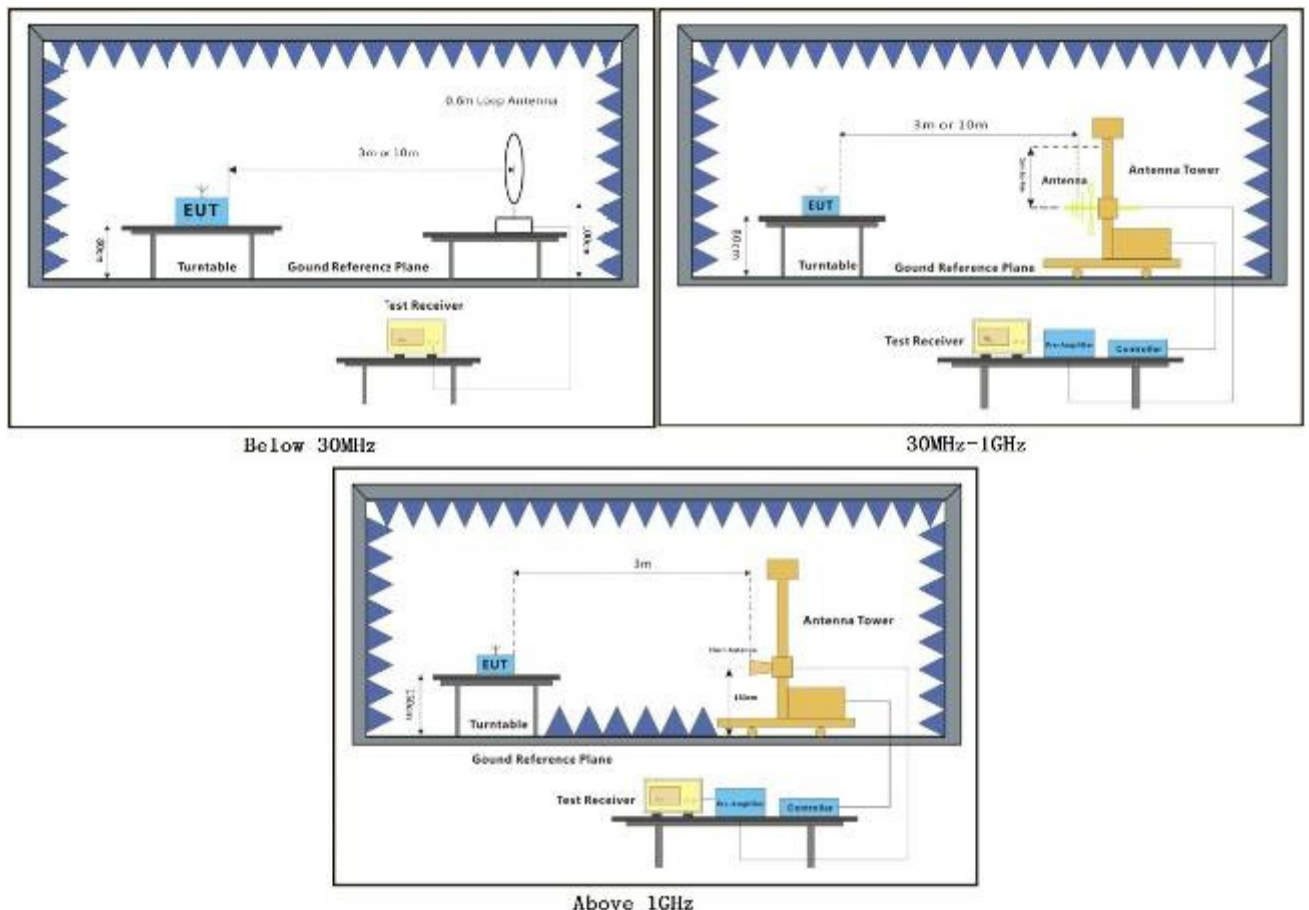
Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Pretest these f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

mode to find the g:Charge + TX mode\_Keep the EUT in charging and continuously transmitting with worst case: modulation mode.

The worst case g:Charge + TX mode\_Keep the EUT in charging and continuously transmitting with for final test: modulation mode.

### 7.6.2 Test Setup Diagram





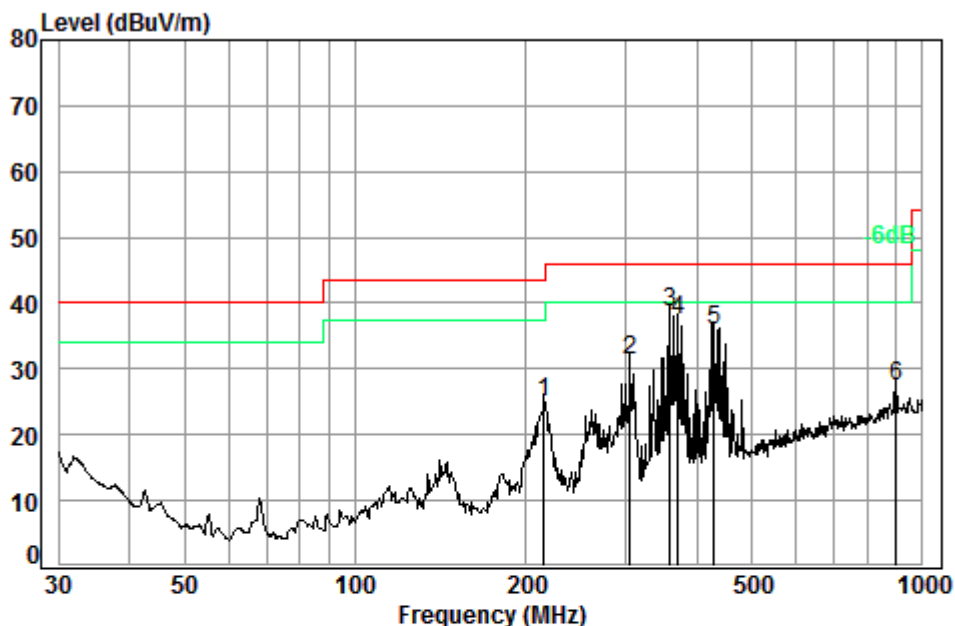
### **7.6.3 Measurement Procedure and Data**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

**Below 1GHz:**

For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

Mode:g; Polarization:Horizontal; Modulation Type:OFDM; bandwidth:5MHz; Channel:Low



Condition: 3m HORIZONTAL

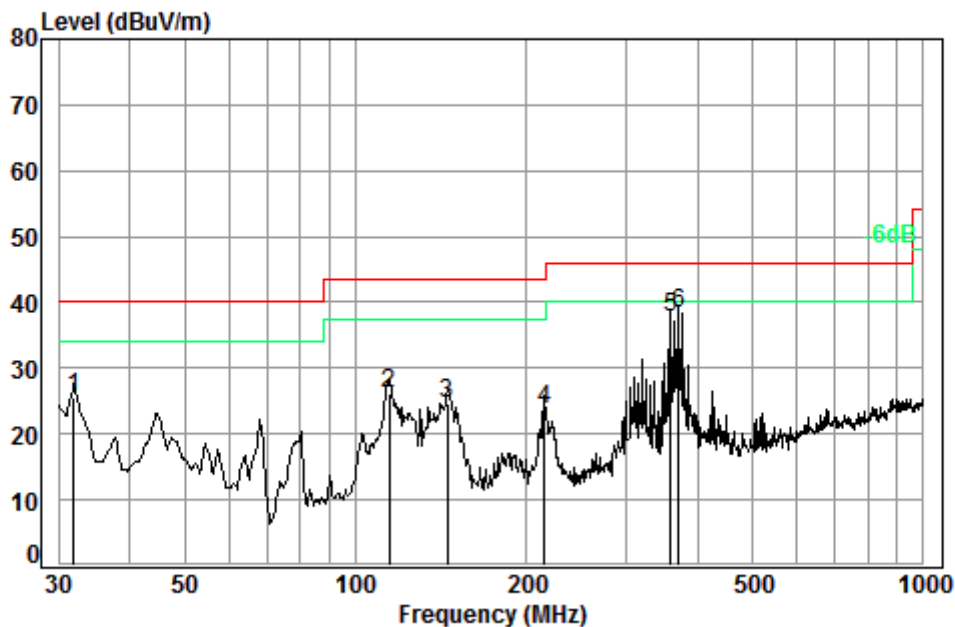
Job No. : 05304CR/5306CR

Test mode: g

|      | Freq   | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit |
|------|--------|------------|------------|---------------|------------|--------|------------|------------|
|      | MHz    | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |
| 1    | 215.27 | 1.49       | 10.99      | 26.65         | 39.24      | 25.07  | 43.50      | -18.43     |
| 2    | 305.68 | 1.92       | 14.10      | 26.44         | 41.73      | 31.31  | 46.00      | -14.69     |
| 3 pp | 359.19 | 2.09       | 14.67      | 26.85         | 48.81      | 38.72  | 46.00      | -7.28      |
| 4    | 370.70 | 2.12       | 15.64      | 26.93         | 46.45      | 37.28  | 46.00      | -8.72      |
| 5    | 429.52 | 2.33       | 16.49      | 27.31         | 44.52      | 36.03  | 46.00      | -9.97      |
| 6    | 900.15 | 3.60       | 23.20      | 26.78         | 27.48      | 27.50  | 46.00      | -18.50     |



Mode:g; Polarization:Vertical; Modulation Type:OFDM; bandwidth:5MHz; Channel:Low



Condition: 3m VERTICAL

Job No. : 05304CR/5306CR

Test mode: g

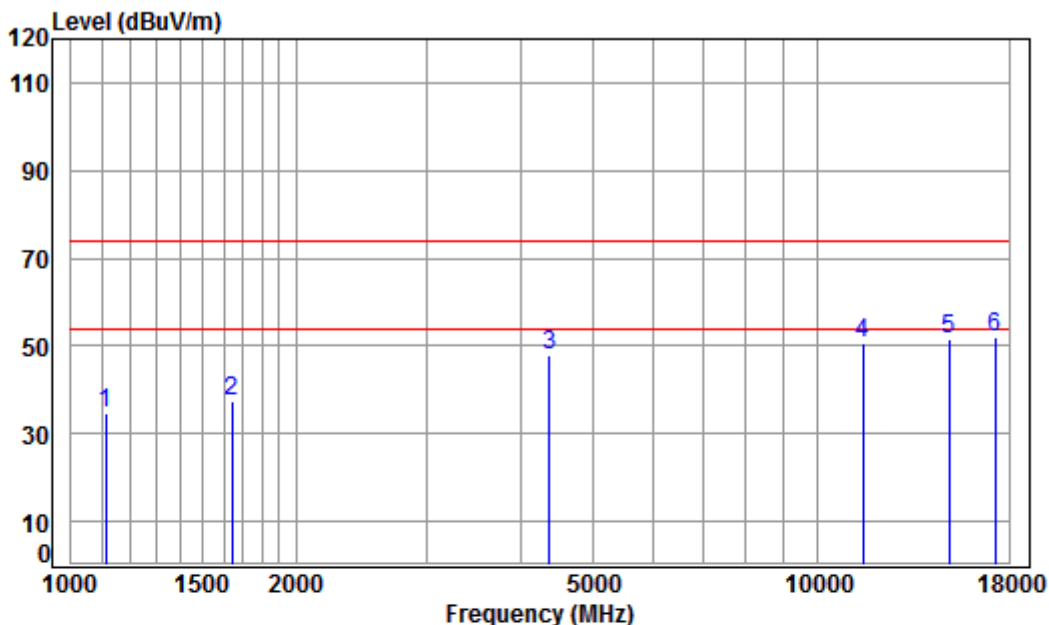
|      | Freq   | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit |
|------|--------|------------|------------|---------------|------------|--------|------------|------------|
|      | MHz    | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |
| 1    | 31.95  | 0.60       | 17.61      | 27.35         | 34.71      | 25.57  | 40.00      | -14.43     |
| 2    | 114.51 | 1.24       | 8.28       | 27.10         | 43.85      | 26.27  | 43.50      | -17.23     |
| 3    | 145.35 | 1.31       | 8.58       | 26.93         | 41.72      | 24.68  | 43.50      | -18.82     |
| 4    | 215.27 | 1.49       | 10.99      | 26.65         | 37.96      | 23.79  | 43.50      | -19.71     |
| 5    | 359.19 | 2.09       | 14.67      | 26.85         | 47.89      | 37.80  | 46.00      | -8.20      |
| 6 pp | 370.70 | 2.12       | 15.64      | 26.93         | 47.49      | 38.32  | 46.00      | -7.68      |





**Above 1GHz:**

Mode:g; Polarization:Horizontal; Modulation Type:OFDM; bandwidth:5MHz; Channel:Low



Condition: 3m HORIZONTAL

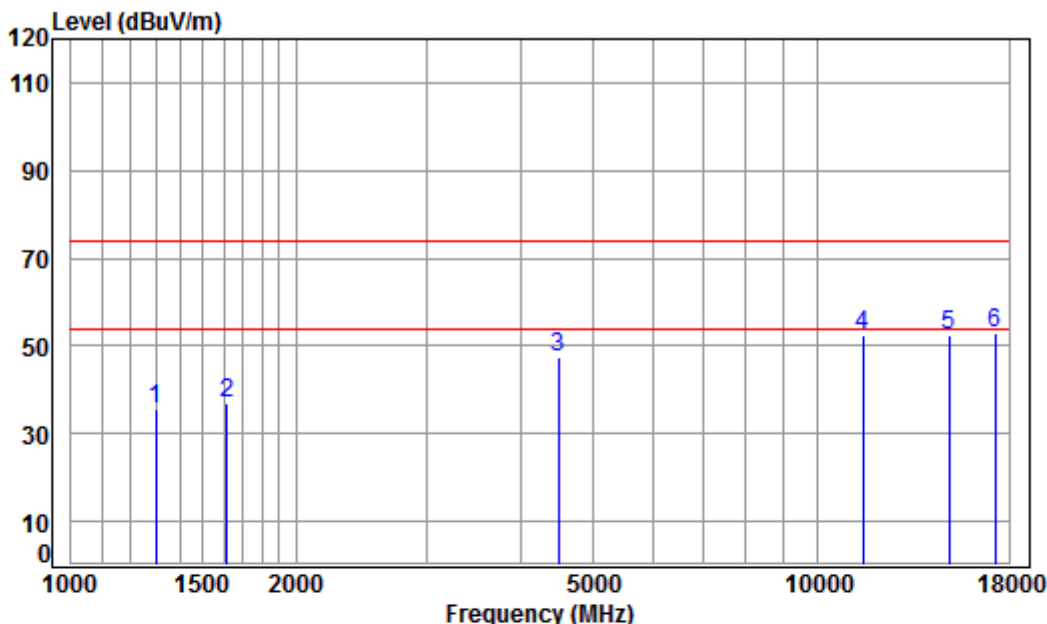
Job No: : 05304CR\05306CR

Mode: : 5745 TX RSE

|   | Freq        | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1112.872    | 3.95       | 24.03      | 38.09               | 44.56      | 34.45  | 74.00      | -39.55     | peak   |
| 2 | 1644.019    | 4.64       | 26.44      | 38.04               | 44.35      | 37.39  | 74.00      | -36.61     | peak   |
| 3 | 4367.058    | 7.13       | 33.60      | 38.18               | 45.15      | 47.70  | 74.00      | -26.30     | peak   |
| 4 | 11490.000   | 12.33      | 38.09      | 35.50               | 35.64      | 50.56  | 74.00      | -23.44     | peak   |
| 5 | 14960.120   | 14.84      | 41.23      | 38.90               | 34.49      | 51.66  | 74.00      | -22.34     | peak   |
| 6 | pp17235.000 | 17.60      | 43.08      | 36.18               | 27.29      | 51.79  | 74.00      | -22.21     | peak   |



Mode:g; Polarization:Vertical; Modulation Type:OFDM; bandwidth:5MHz; Channel:Low



Condition: 3m VERTICAL

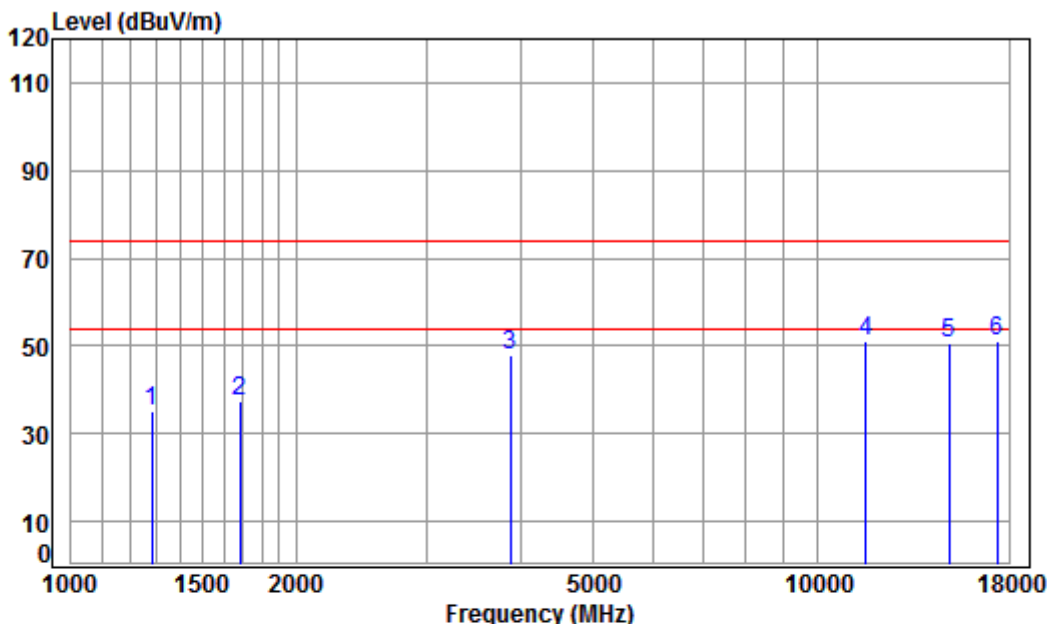
Job No: : 05304CR\05306CR

Mode: : 5745 TX RSE

|   | Freq      | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz       | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1300.858  | 4.22       | 24.96      | 38.07               | 44.40      | 35.51  | 74.00      | -38.49     | peak   |
| 2 | 1615.754  | 4.61       | 26.32      | 38.04               | 44.16      | 37.05  | 74.00      | -36.95     | peak   |
| 3 | 4495.125  | 7.27       | 33.60      | 38.25               | 44.97      | 47.59  | 74.00      | -26.41     | peak   |
| 4 | 11490.000 | 12.33      | 38.09      | 35.50               | 37.72      | 52.64  | 74.00      | -21.36     | peak   |
| 5 | 14960.120 | 14.84      | 41.23      | 38.90               | 35.44      | 52.61  | 74.00      | -21.39     | peak   |
| 6 | 17235.000 | 17.60      | 43.08      | 36.18               | 28.35      | 52.85  | 74.00      | -21.15     | peak   |



Mode:g; Polarization:Horizontal; Modulation Type:OFDM; bandwidth:5MHz; Channel:middle

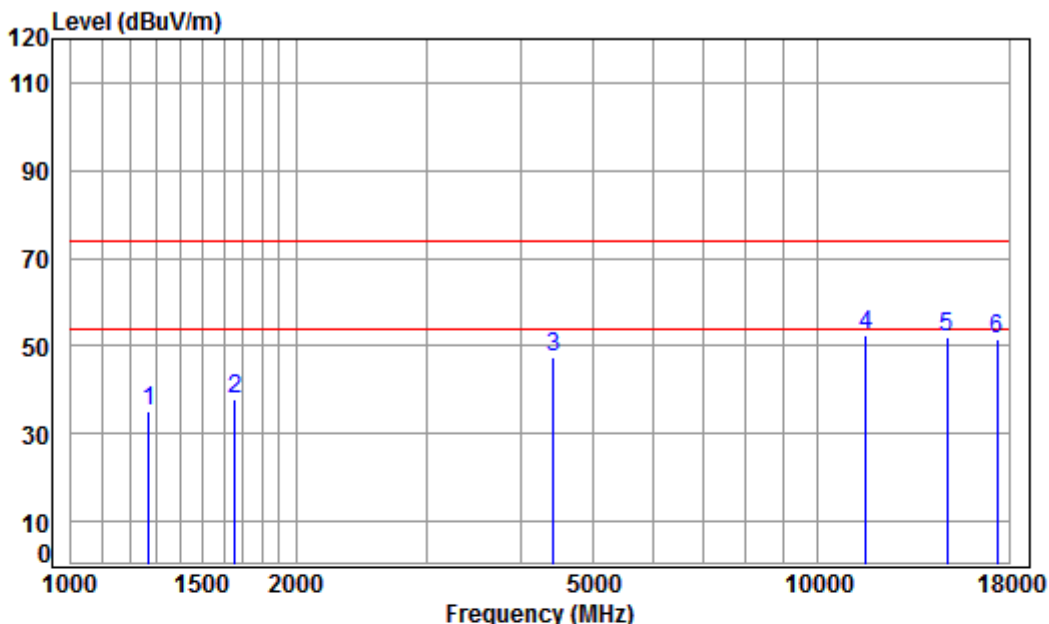


Condition: 3m HORIZONTAL  
Job No: : 05304CR\05306CR  
Mode: : 5785 TX RSE

|   | Freq      | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|   | MHz       | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1 | 1282.193  | 4.20       | 24.87      | 38.07         | 44.17      | 35.17  | 74.00  | -38.83 | peak   |
| 2 | 1682.477  | 4.69       | 26.60      | 38.03         | 44.10      | 37.36  | 74.00  | -36.64 | peak   |
| 3 | 3867.831  | 6.60       | 33.25      | 37.99         | 45.97      | 47.83  | 74.00  | -26.17 | peak   |
| 4 | 11570.000 | 12.34      | 38.17      | 35.51         | 35.94      | 50.94  | 74.00  | -23.06 | peak   |
| 5 | 14960.120 | 14.84      | 41.23      | 38.90         | 33.31      | 50.48  | 74.00  | -23.52 | peak   |
| 6 | 17355.000 | 17.93      | 43.23      | 36.12         | 26.24      | 51.28  | 74.00  | -22.72 | peak   |



Mode:g; Polarization:Vertical; Modulation Type:OFDM; bandwidth:5MHz; Channel:middle



Condition: 3m VERTICAL

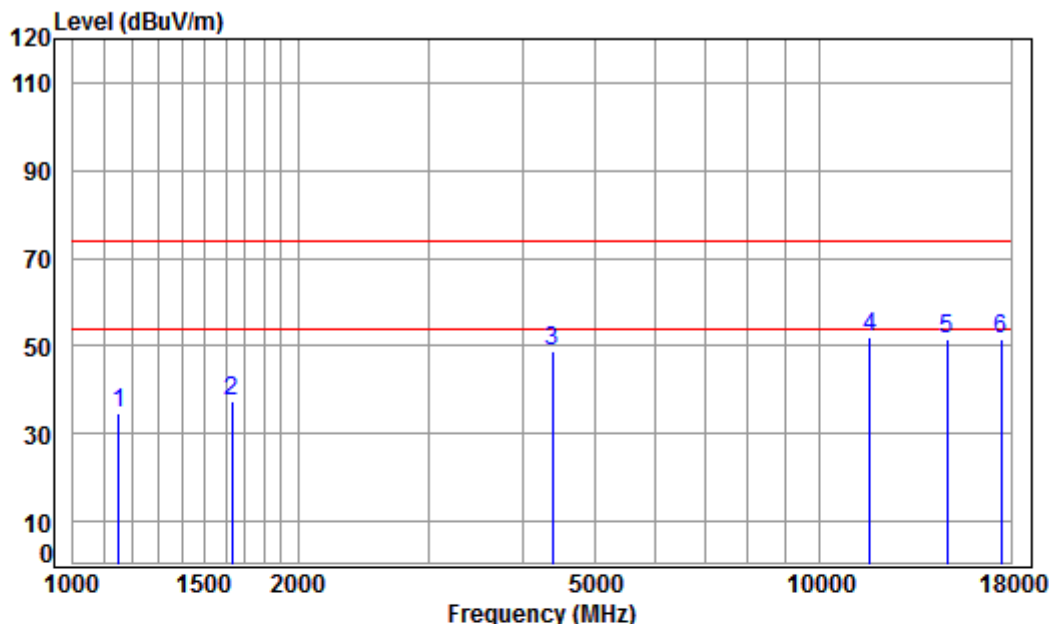
Job No: : 05304CR\05306CR

Mode: : 5785 TX RSE

|   | Freq        | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|---|-------------|------------|------------|---------------|------------|--------|--------|--------|--------|
|   | MHz         | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1 | 1271.123    | 4.18       | 24.82      | 38.07         | 44.06      | 34.99  | 74.00  | -39.01 | peak   |
| 2 | 1658.337    | 4.66       | 26.50      | 38.03         | 44.51      | 37.64  | 74.00  | -36.36 | peak   |
| 3 | 4417.841    | 7.19       | 33.60      | 38.21         | 44.81      | 47.39  | 74.00  | -26.61 | peak   |
| 4 | pp11570.000 | 12.34      | 38.17      | 35.51         | 37.41      | 52.41  | 74.00  | -21.59 | peak   |
| 5 | 14873.890   | 14.82      | 41.08      | 38.91         | 34.97      | 51.96  | 74.00  | -22.04 | peak   |
| 6 | 17355.000   | 17.93      | 43.23      | 36.12         | 26.70      | 51.74  | 74.00  | -22.26 | peak   |



Mode:g; Polarization:Horizontal; Modulation Type:OFDM; bandwidth:5MHz; Channel:High



Condition: 3m HORIZONTAL

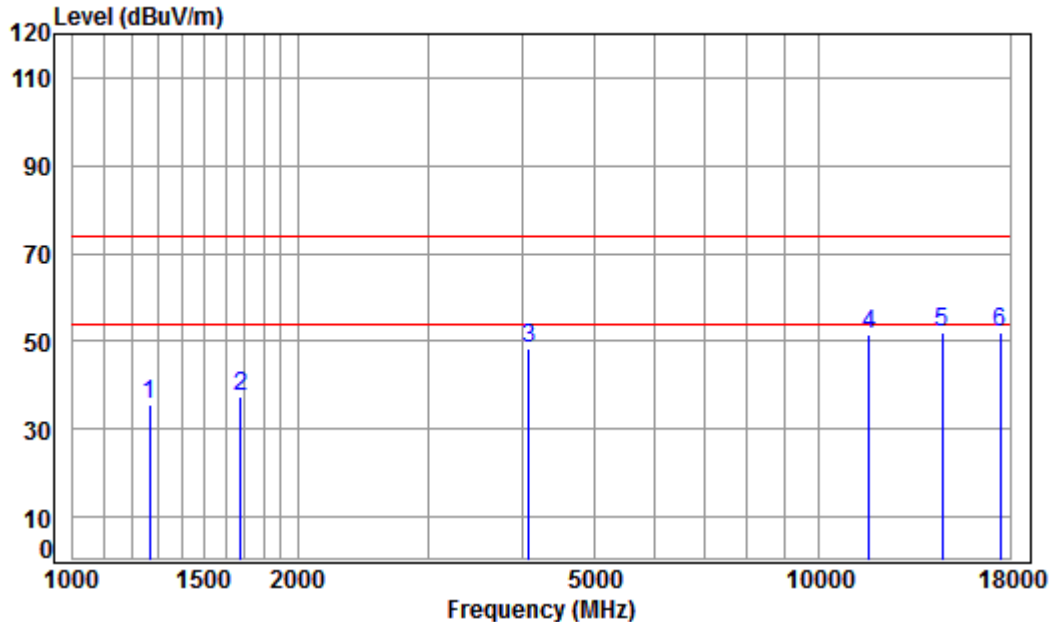
Job No: : 05304CR\05306CR

Mode: : 5825 TX RSE

|   | Freq        | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1152.148    | 4.01       | 24.24      | 38.08               | 44.65      | 34.82  | 74.00      | -39.18     | peak   |
| 2 | 1634.543    | 4.63       | 26.40      | 38.04               | 44.27      | 37.26  | 74.00      | -36.74     | peak   |
| 3 | 4379.699    | 7.15       | 33.60      | 38.19               | 46.25      | 48.81  | 74.00      | -25.19     | peak   |
| 4 | pp11650.000 | 12.35      | 38.25      | 35.53               | 36.78      | 51.85  | 74.00      | -22.15     | peak   |
| 5 | 14788.150   | 14.80      | 40.92      | 38.92               | 34.71      | 51.51  | 74.00      | -22.49     | peak   |
| 6 | 17475.000   | 18.25      | 43.37      | 36.06               | 25.98      | 51.54  | 74.00      | -22.46     | peak   |



Mode:g; Polarization:Vertical; Modulation Type:OFDM; bandwidth:5MHz; Channel:High



Condition: 3m VERTICAL

Job No: : 05304CR\05306CR

Mode: : 5825 TX RSE

|   | Freq        | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|------------|------------|---------------|------------|--------|------------|------------|--------|
|   | MHz         | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1267.454    | 4.18       | 24.80      | 38.07         | 44.51      | 35.42  | 74.00      | -38.58     | peak   |
| 2 | 1677.621    | 4.68       | 26.58      | 38.03         | 44.06      | 37.29  | 74.00      | -36.71     | peak   |
| 3 | 4086.182    | 6.80       | 33.60      | 38.04         | 45.82      | 48.18  | 74.00      | -25.82     | peak   |
| 4 | 11650.000   | 12.35      | 38.25      | 35.53         | 36.70      | 51.77  | 74.00      | -22.23     | peak   |
| 5 | pp14618.170 | 14.75      | 40.62      | 38.94         | 35.80      | 52.23  | 74.00      | -21.77     | peak   |
| 6 | 17475.000   | 18.25      | 43.37      | 36.06         | 26.33      | 51.89  | 74.00      | -22.11     | peak   |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



## 7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| Above 960      | 500                              | 3                            |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.7.1 E.U.T. Operation

Operating Environment:

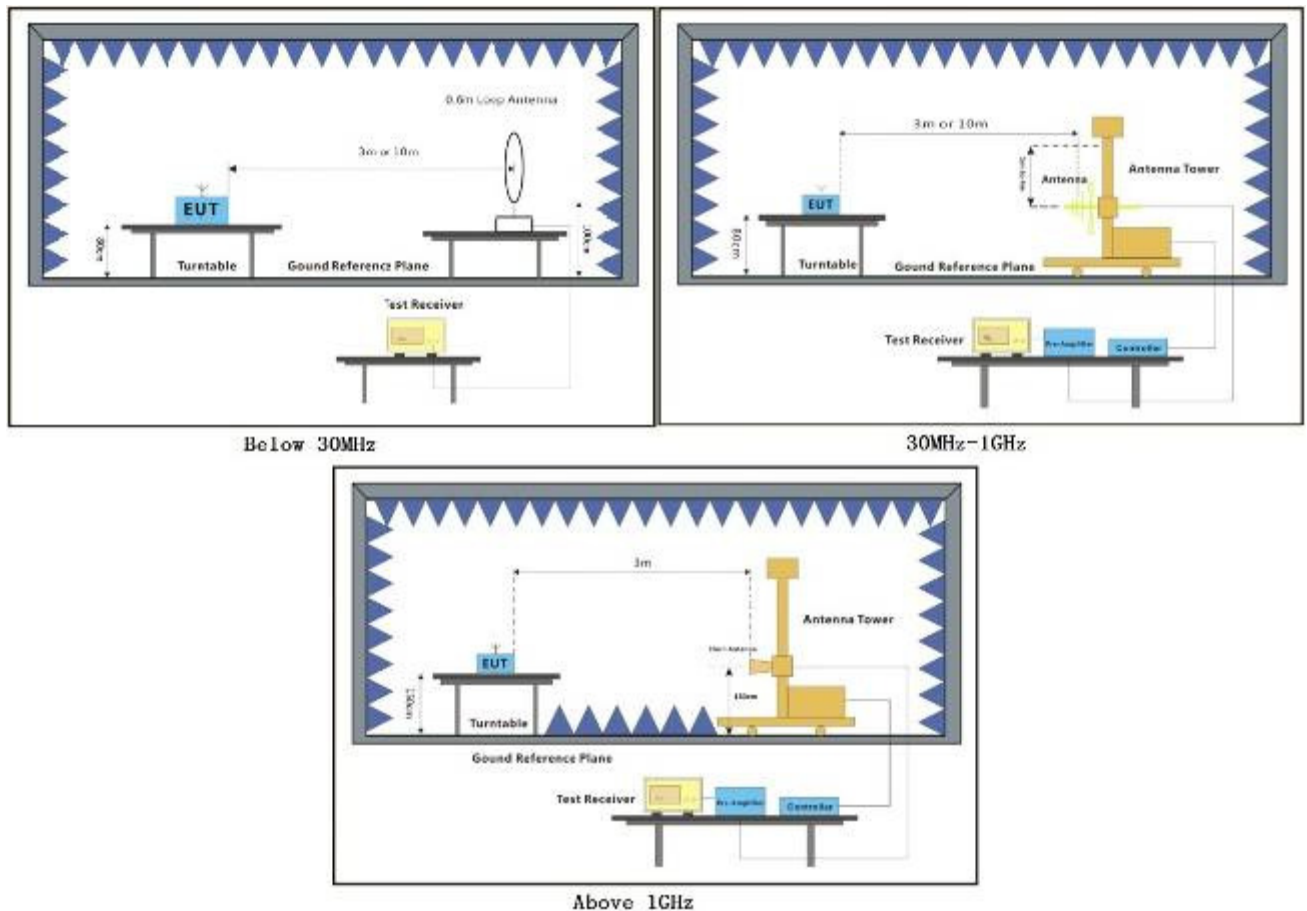
Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar

Pretest these f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

mode to find the g:Charge + TX mode\_Keep the EUT in charging and continuously transmitting with modulation mode.

The worst case g:Charge + TX mode\_Keep the EUT in charging and continuously transmitting with modulation mode.

### 7.7.2 Test Setup Diagram





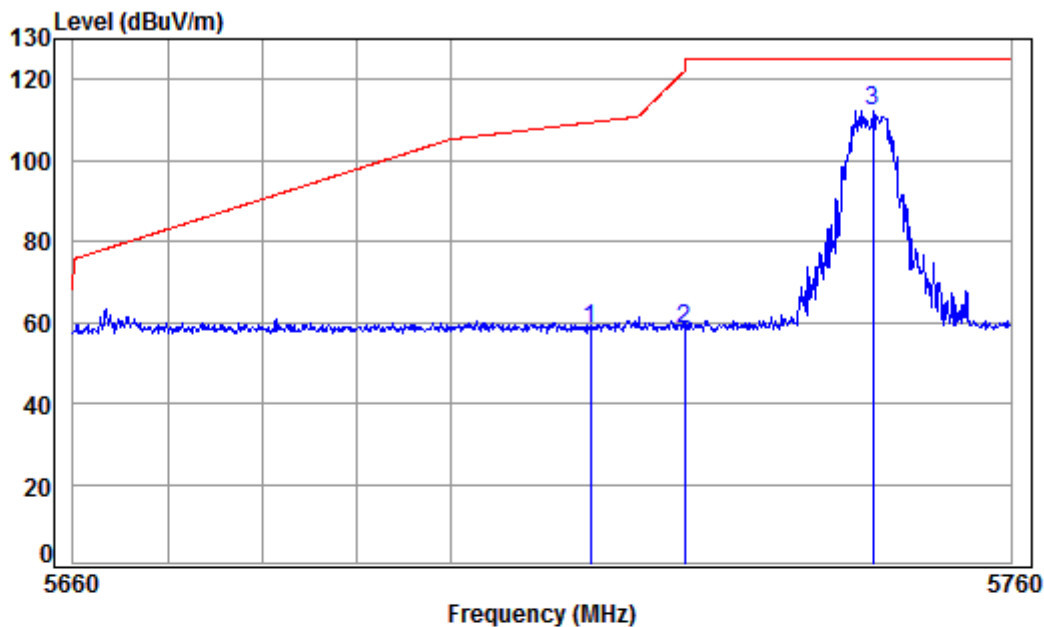


### **7.7.3 Measurement Procedure and Data**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.



Mode:g; Polarization:Horizontal; Modulation Type:OFDM; bandwidth:5MHz; Channel:Low



Condition: 3m HORIZONTAL

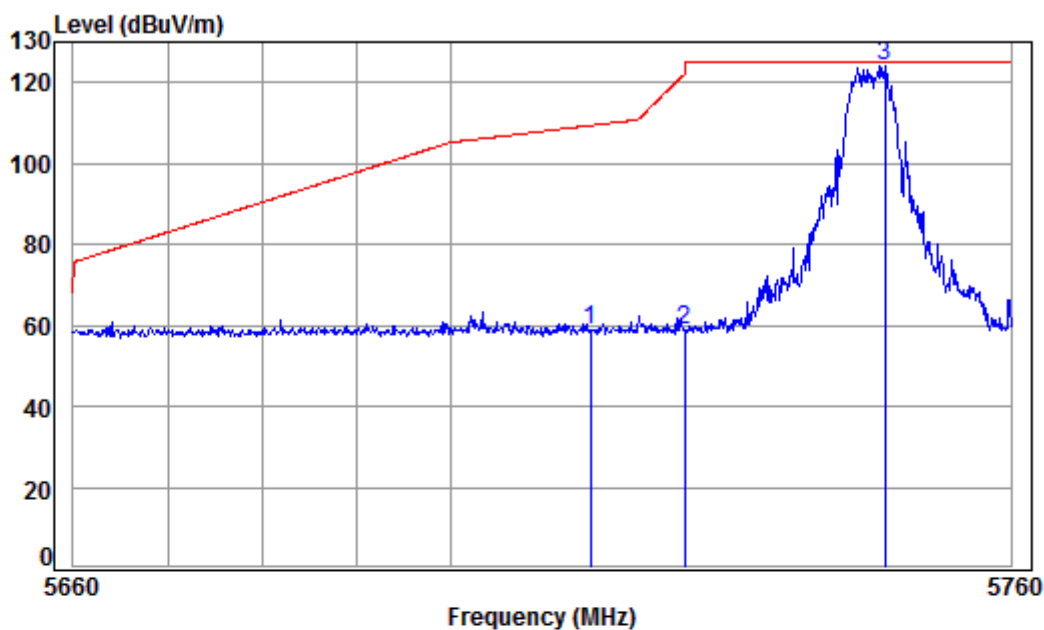
Job No: : 05304CR\05306CR

Mode: : 5745 Band edge

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 5715.000 | 8.47       | 34.53      | 38.36               | 53.57      | 58.21  | 109.40     | -51.19     | peak   |
| 2    | 5725.000 | 8.48       | 34.54      | 38.35               | 53.66      | 58.33  | 122.20     | -63.87     | peak   |
| 3 pp | 5745.190 | 8.50       | 34.55      | 38.35               | 107.66     | 112.36 | 125.20     | -12.84     | peak   |



Mode:g; Polarization:Vertical; Modulation Type:OFDM; bandwidth:5MHz; Channel:Low



Condition: 3m VERTICAL

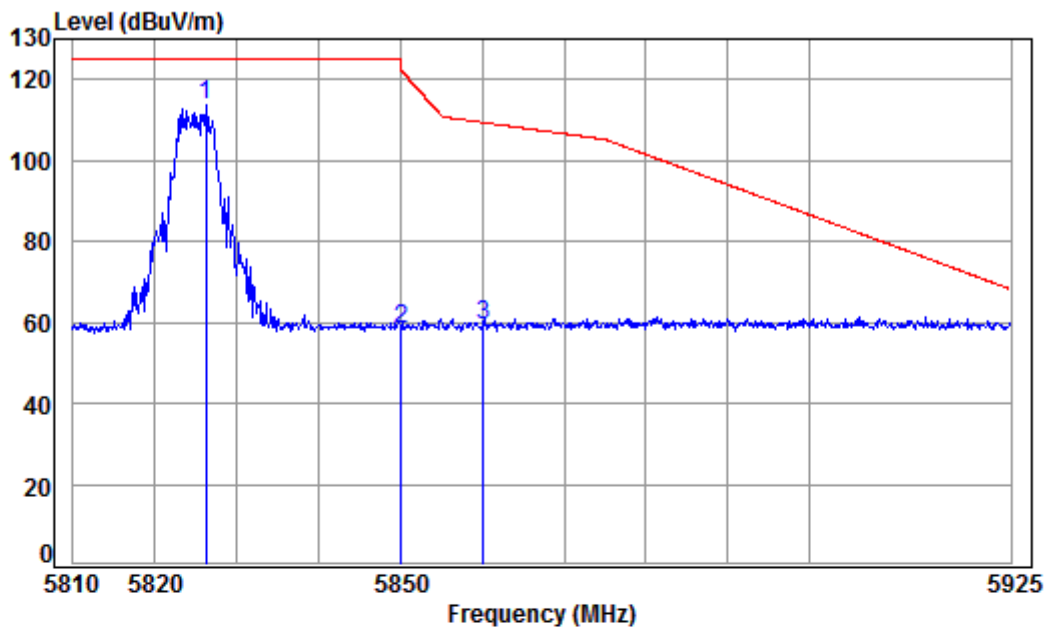
Job No: : 05304CR\05306CR

Mode: : 5745 Band edge

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |             |
|------|----------|-------|--------|--------|--------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB          |
| 1    | 5715.000 | 8.47  | 34.53  | 38.36  | 54.18  | 58.82  | 109.40 | -50.58 peak |
| 2    | 5725.000 | 8.48  | 34.54  | 38.35  | 53.96  | 58.63  | 122.20 | -63.57 peak |
| 3 pp | 5746.498 | 8.50  | 34.55  | 38.35  | 119.30 | 124.00 | 125.20 | -1.20 peak  |



Mode:g; Polarization:Horizontal; Modulation Type:OFDM; bandwidth:5MHz; Channel:High



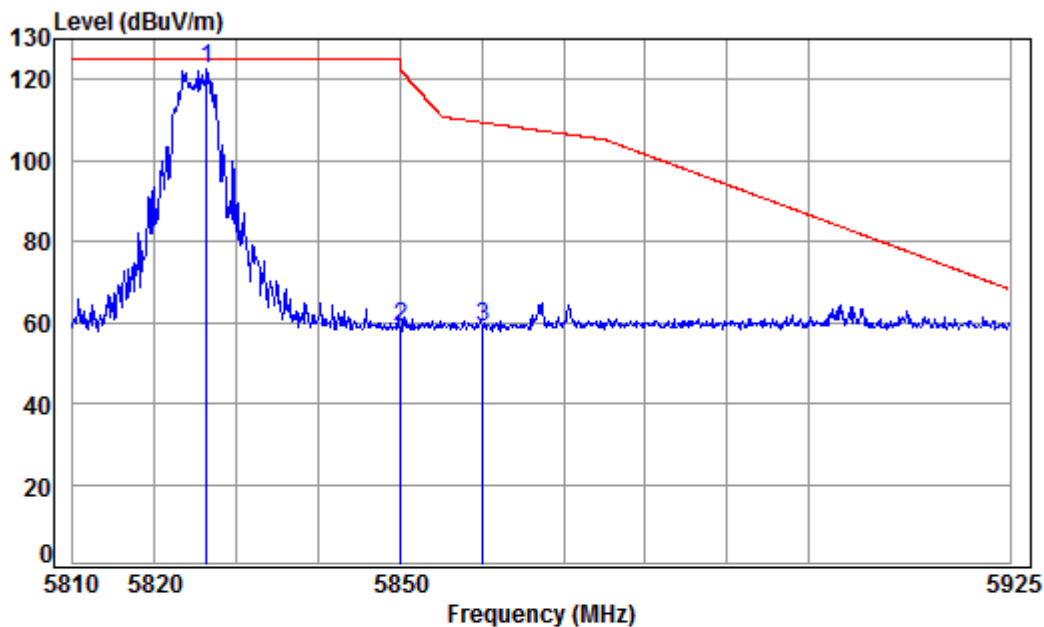
Condition: 3m HORIZONTAL

Job No: : 05304CR\05306CR

Mode: : 5825 Band edge

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |        |
| 1 pp | 5826.193 | 8.58  | 34.60  | 38.33  | 108.90 | 113.75 | 125.20 | -11.45 | peak   |
| 2    | 5850.000 | 8.60  | 34.61  | 38.33  | 53.43  | 58.31  | 122.20 | -63.89 | peak   |
| 3    | 5860.000 | 8.61  | 34.62  | 38.33  | 54.64  | 59.54  | 109.40 | -49.86 | peak   |

Mode:g; Polarization:Vertical; Modulation Type:OFDM; bandwidth:5MHz; Channel:High



Condition: 3m VERTICAL

Job No: : 05304CR\05306CR

Mode: : 5825 Band edge

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |        |
| 1 pp | 5826.307 | 8.58  | 34.60  | 38.33  | 117.54 | 122.39 | 125.20 | -2.81  | peak   |
| 2    | 5850.000 | 8.60  | 34.61  | 38.33  | 53.95  | 58.83  | 122.20 | -63.37 | peak   |
| 3    | 5860.000 | 8.61  | 34.62  | 38.33  | 54.01  | 58.91  | 109.40 | -50.49 | peak   |

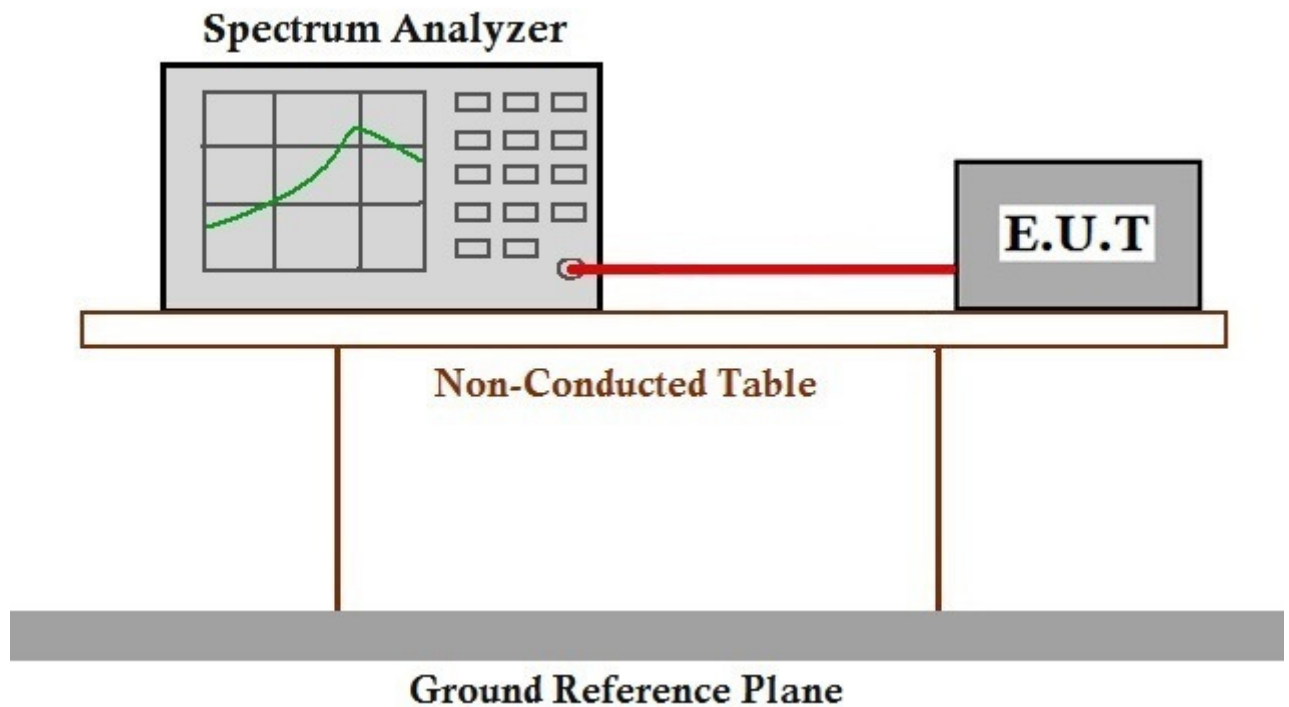
## 7.8 Frequency Stability

Test Requirement: 47 CFR Part 15, Subpart E 15.407 (g)  
Test Method: ANSI C63.10 (2013) Section 6.8  
Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### 7.8.1 E.U.T. Operation

Operating Environment:  
Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1005 mbar  
Test mode f:TX mode\_Keep the EUT in continuously transmitting with modulation mode.

### 7.8.2 Test Setup Diagram



### 7.8.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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|            |      |                 |      |
|------------|------|-----------------|------|
| Test mode: | OFDM | Frequency(MHz): | 5745 |
|------------|------|-----------------|------|

| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Result |
|------------------|--------------|----------------------------|--------|
| 40               | 3.7          | 5744.4709                  | Pass   |
| 30               |              | 5744.4713                  | Pass   |
| 20               |              | 5744.4722                  | Pass   |
| 10               |              | 5744.4716                  | Pass   |
| 0                |              | 5744.4711                  | Pass   |
| 25               | 4.2          | 5744.4710                  | Pass   |
|                  | 3.7          | 5744.4713                  | Pass   |
|                  | 3.6          | 5744.4723                  | Pass   |

|            |      |                 |      |
|------------|------|-----------------|------|
| Test mode: | OFDM | Frequency(MHz): | 5785 |
|------------|------|-----------------|------|

| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Result |
|------------------|--------------|----------------------------|--------|
| 40               | 3.7          | 5784.5893                  | Pass   |
| 30               |              | 5784.5902                  | Pass   |
| 20               |              | 5784.5911                  | Pass   |
| 10               |              | 5784.5908                  | Pass   |
| 0                |              | 5784.5903                  | Pass   |
| 25               | 4.2          | 5784.5897                  | Pass   |
|                  | 3.7          | 5784.5902                  | Pass   |
|                  | 3.6          | 5784.5911                  | Pass   |

|            |      |                 |      |
|------------|------|-----------------|------|
| Test mode: | OFDM | Frequency(MHz): | 5825 |
|------------|------|-----------------|------|

| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Result |
|------------------|--------------|----------------------------|--------|
| 40               | 3.7          | 5824.6184                  | Pass   |
| 30               |              | 5824.6189                  | Pass   |
| 20               |              | 5824.6198                  | Pass   |
| 10               |              | 5824.6191                  | Pass   |
| 0                |              | 5824.6187                  | Pass   |
| 25               | 4.2          | 5824.6179                  | Pass   |
|                  | 3.7          | 5824.6189                  | Pass   |
|                  | 3.6          | 5824.6197                  | Pass   |

## 8 Photographs

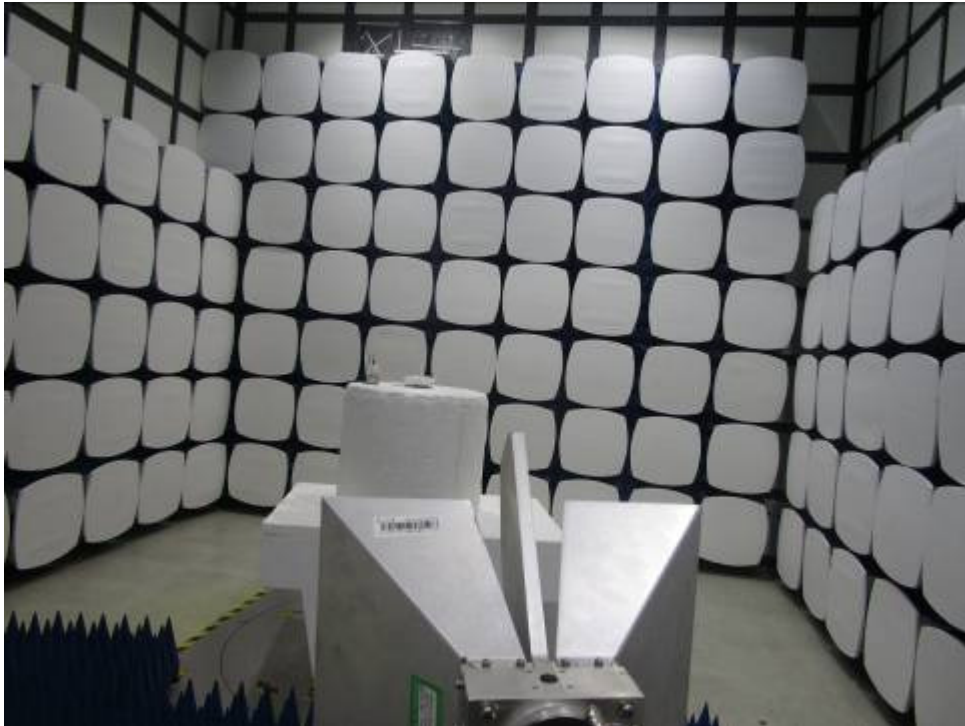
### 8.1 Conducted Emissions at AC Power Line (150kHz-30MHz) Test Setup



### 8.2 Radiated Spurious Emissions Test Setup









### **8.3 EUT Constructional Details**

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1705005306CR.

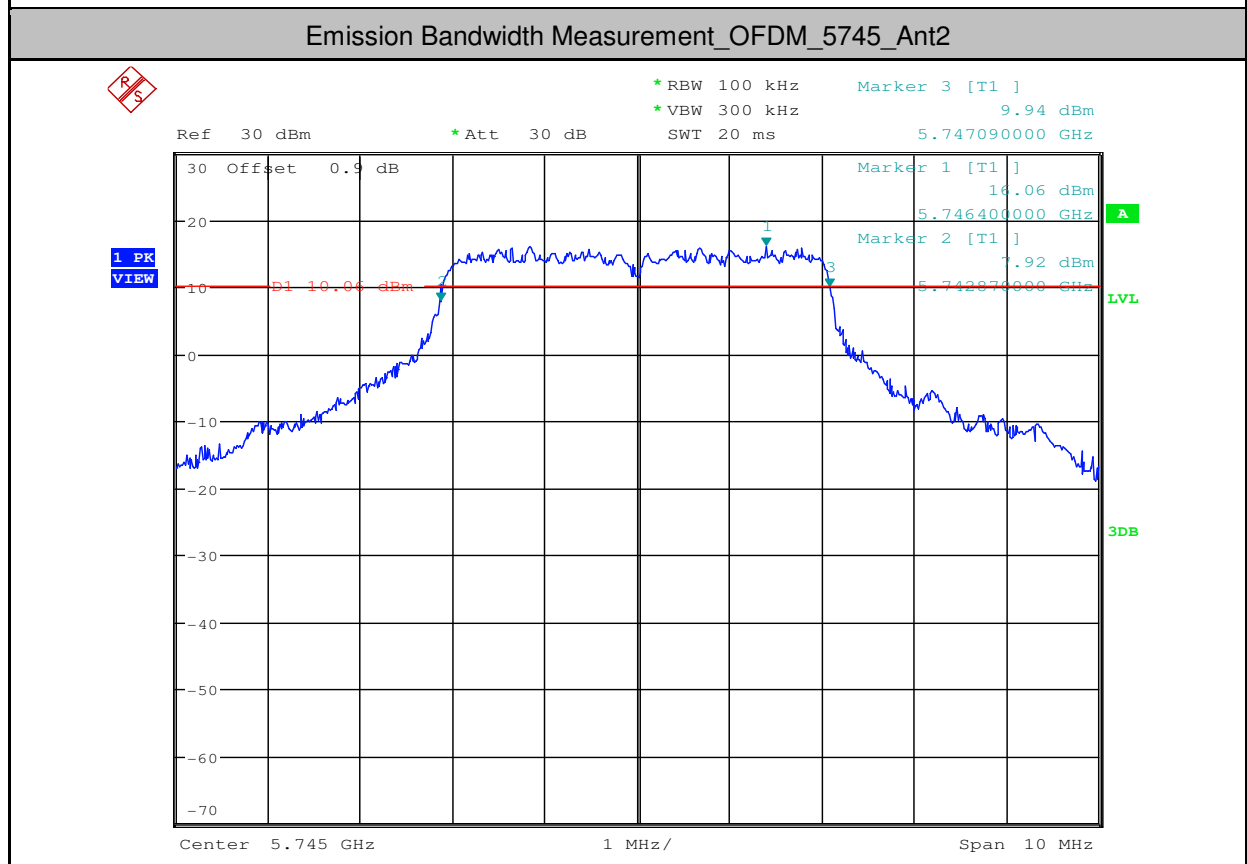
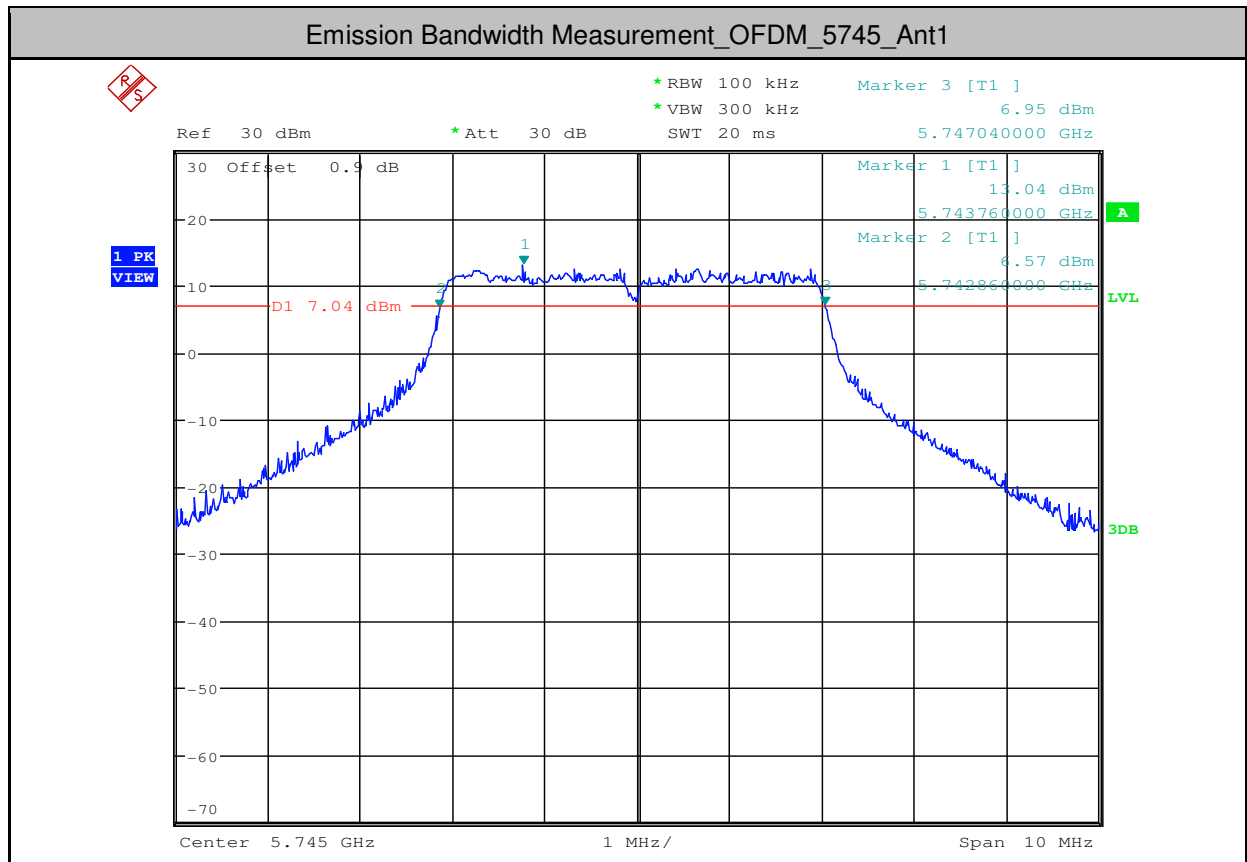


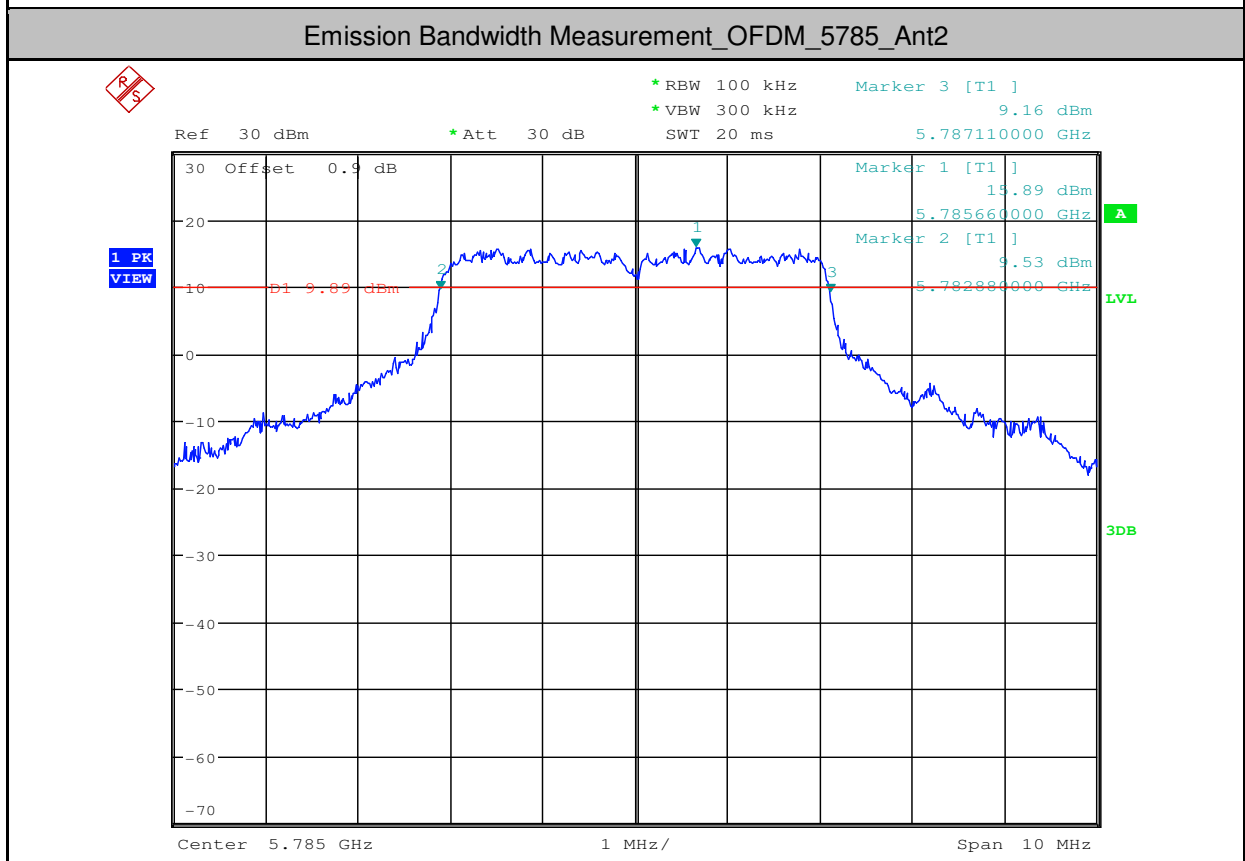
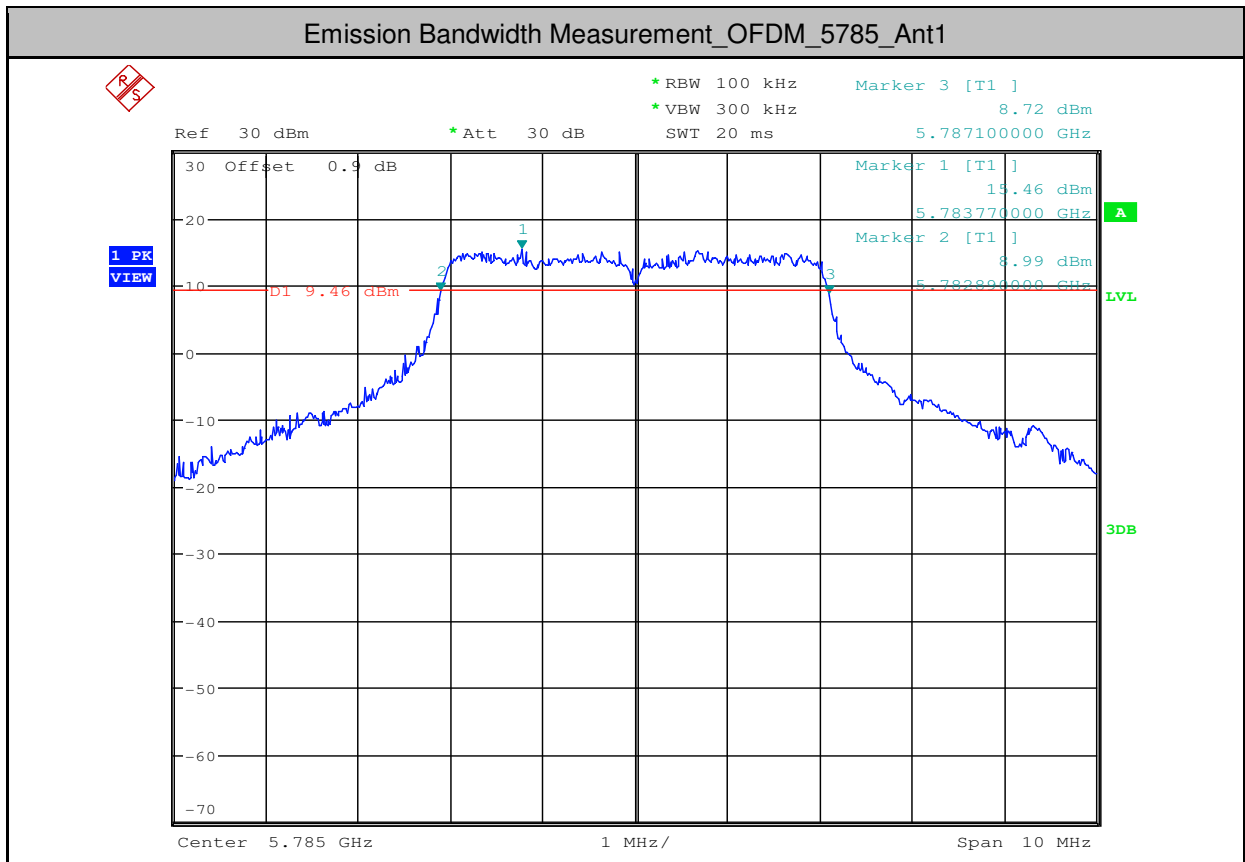
## 9 Appendix

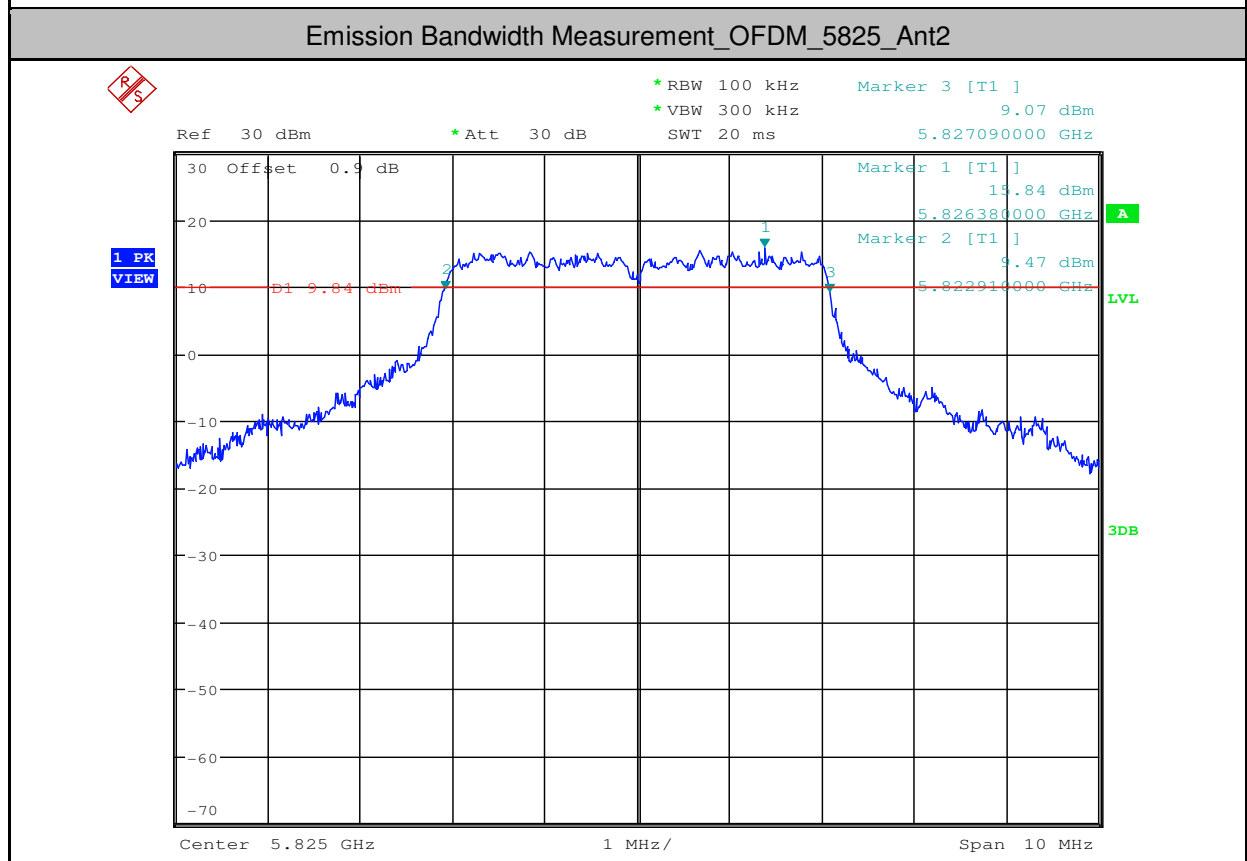
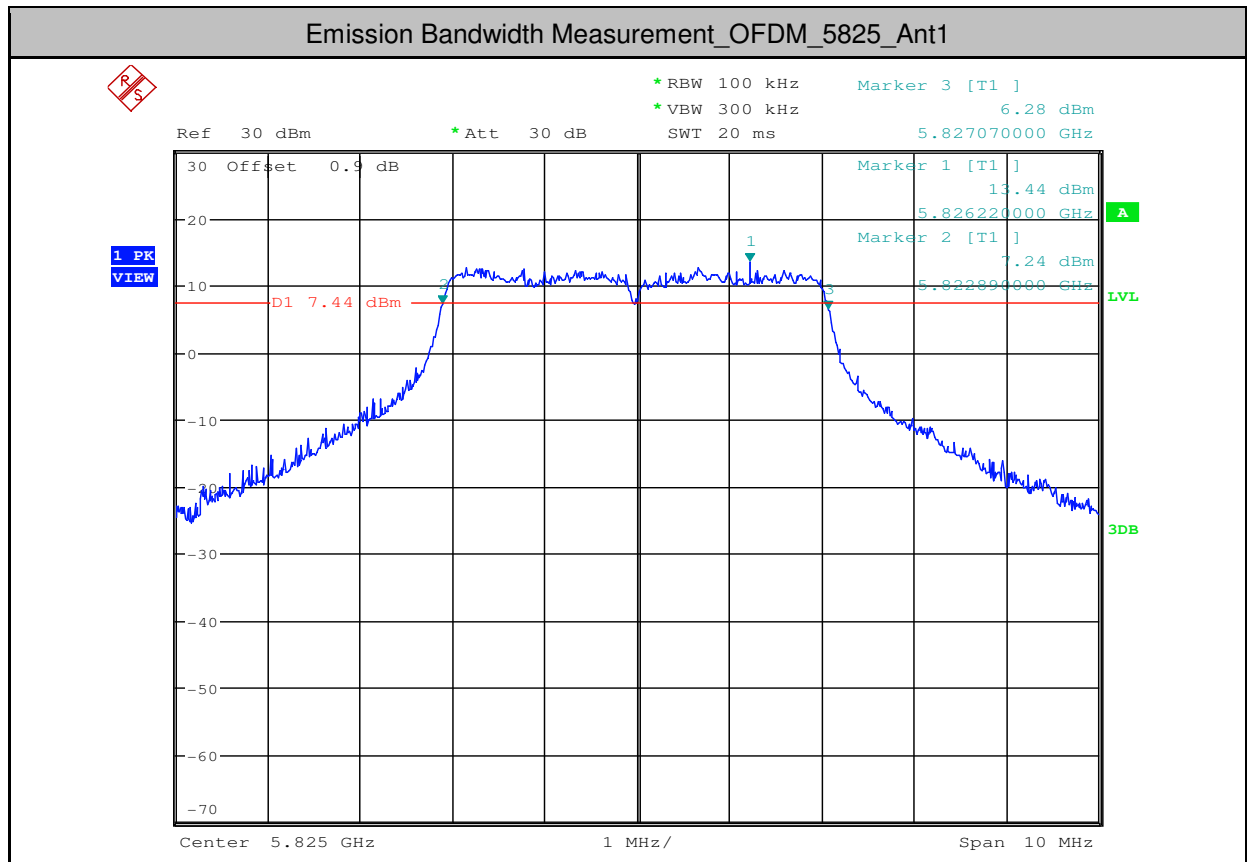
### 9.1 Appendix 15.407

#### 1.Emission Bandwidth Measurement

| Test Mode | Test Channel | Ant  | EBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------|------------|---------|
| OFDM      | 5745         | Ant1 | 4.180    | $\geq 0.5$ | PASS    |
| OFDM      | 5745         | Ant2 | 4.220    | $\geq 0.5$ | PASS    |
| OFDM      | 5785         | Ant1 | 4.210    | $\geq 0.5$ | PASS    |
| OFDM      | 5785         | Ant2 | 4.230    | $\geq 0.5$ | PASS    |
| OFDM      | 5825         | Ant1 | 4.180    | $\geq 0.5$ | PASS    |
| OFDM      | 5825         | Ant2 | 4.180    | $\geq 0.5$ | PASS    |



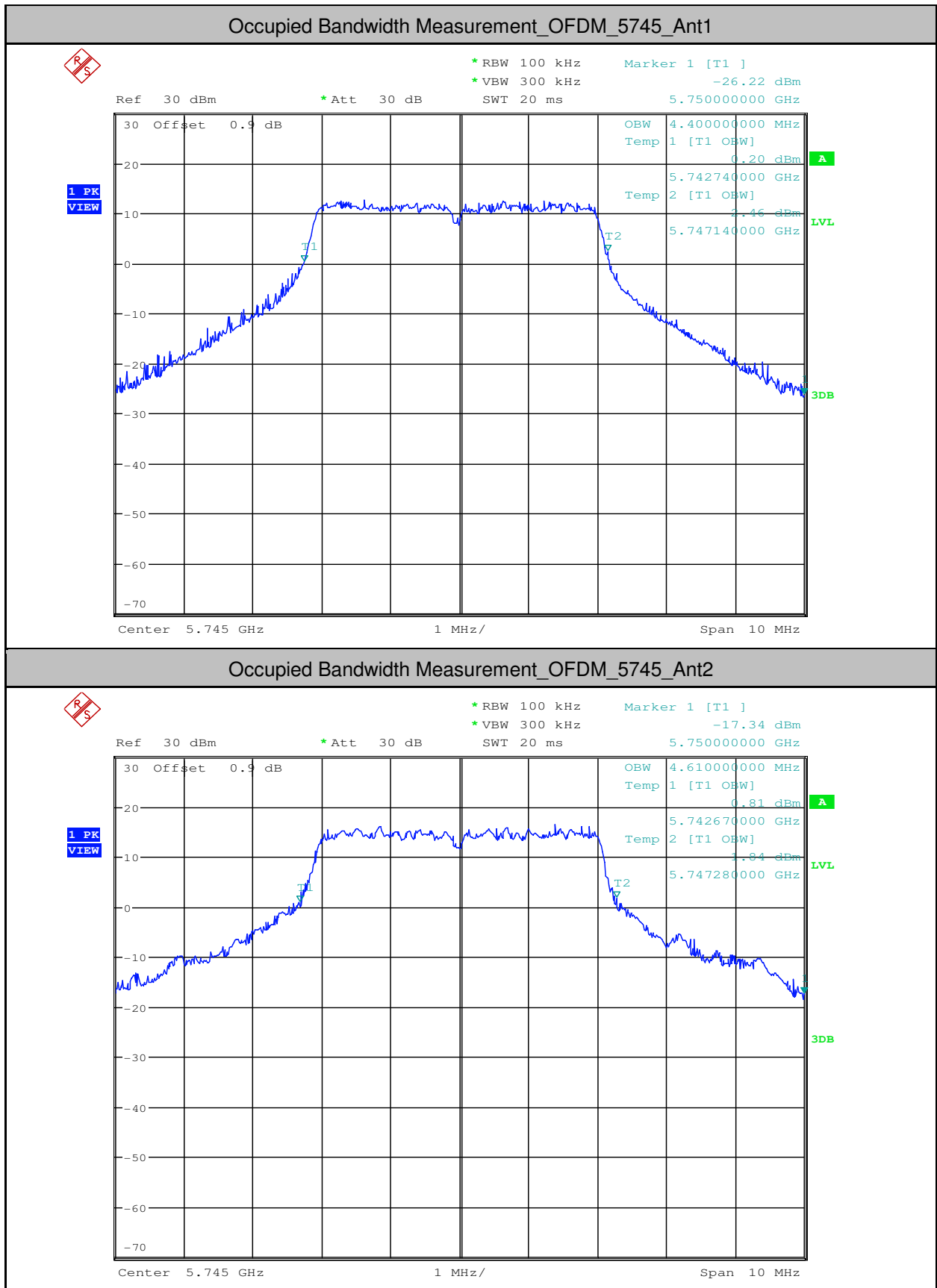




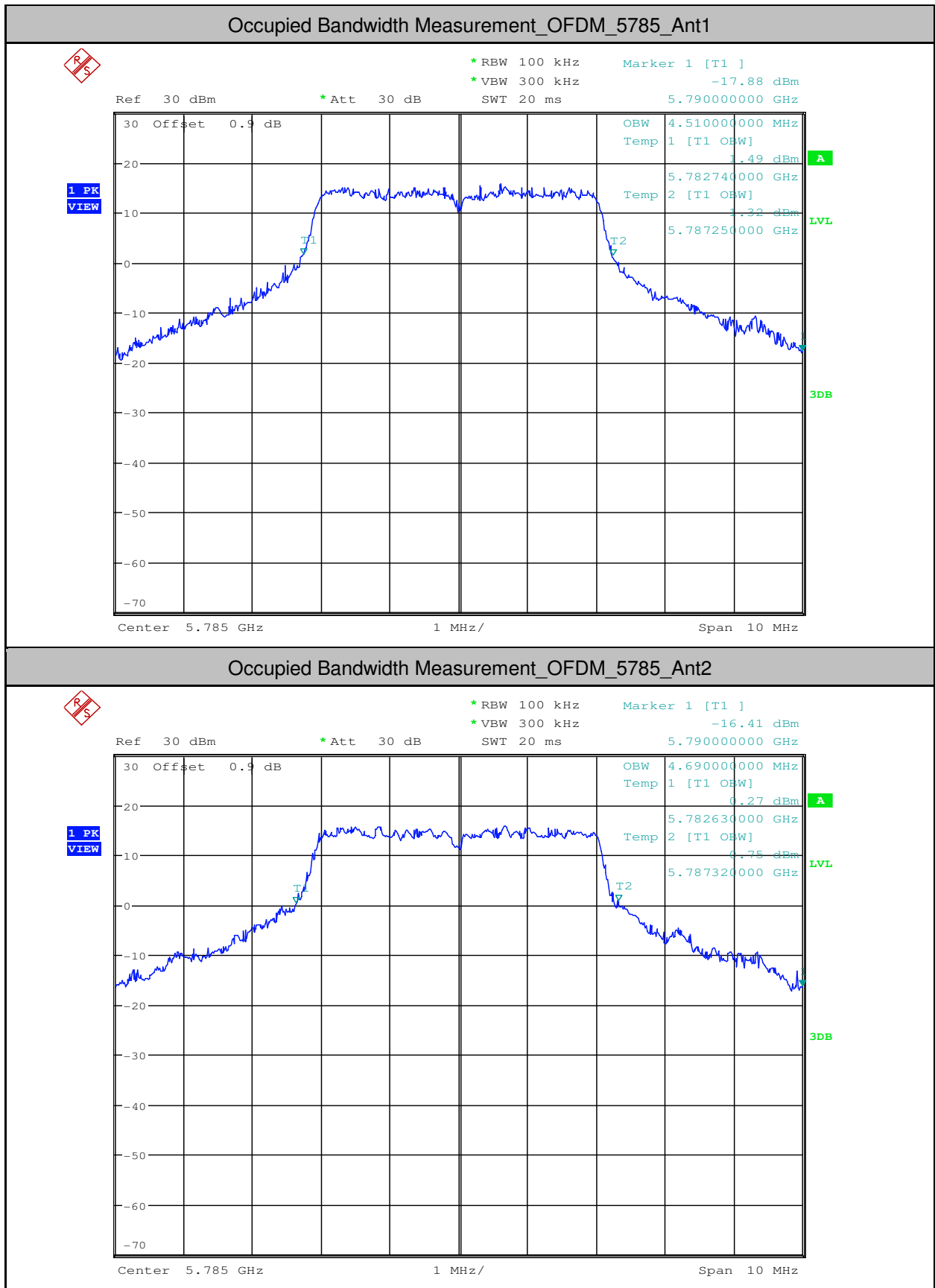


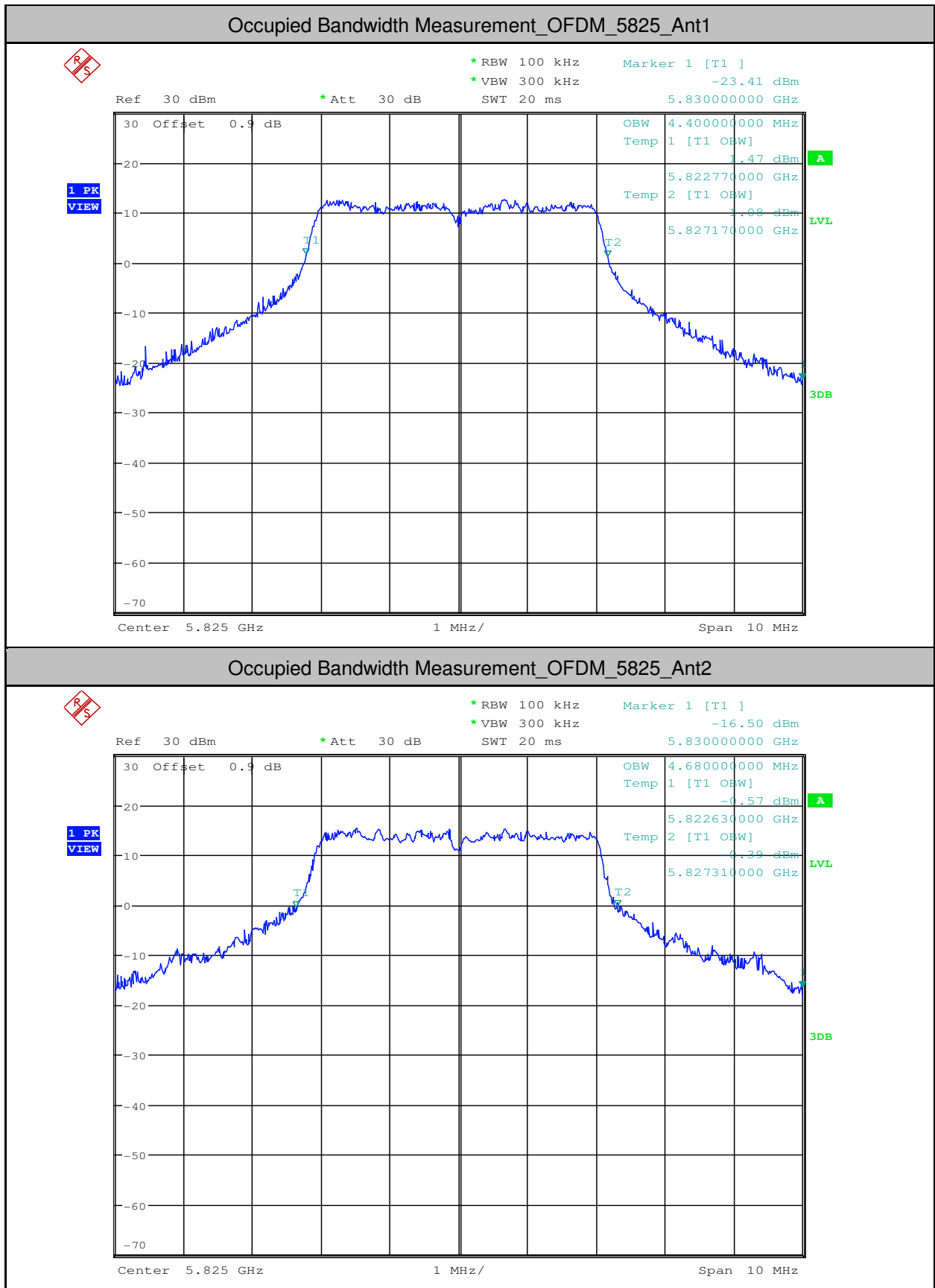
## 2.Occupied Bandwidth Measurement

| Test Mode | Test Channel | Ant  | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------|------------|---------|
| OFDM      | 5745         | Ant1 | 4.400    | ---        | PASS    |
| OFDM      | 5745         | Ant2 | 4.610    | ---        | PASS    |
| OFDM      | 5785         | Ant1 | 4.510    | ---        | PASS    |
| OFDM      | 5785         | Ant2 | 4.690    | ---        | PASS    |
| OFDM      | 5825         | Ant1 | 4.400    | ---        | PASS    |
| OFDM      | 5825         | Ant2 | 4.680    | ---        | PASS    |











### 3.Maximum Conduct Output Power

| Frequency<br>(MHz) | Conducted Output Power (dBm) |       |       | Limit (dBm) | Result |
|--------------------|------------------------------|-------|-------|-------------|--------|
|                    | Ant1                         | Ant2  | Total |             |        |
| 5745.00            | 22.64                        | 21.58 | 25.15 | 29.90       | Pass   |
| 5785.00            | 22.91                        | 21.32 | 25.20 | 29.90       | Pass   |
| 5825.00            | 22.21                        | 21.67 | 24.96 | 29.90       | Pass   |

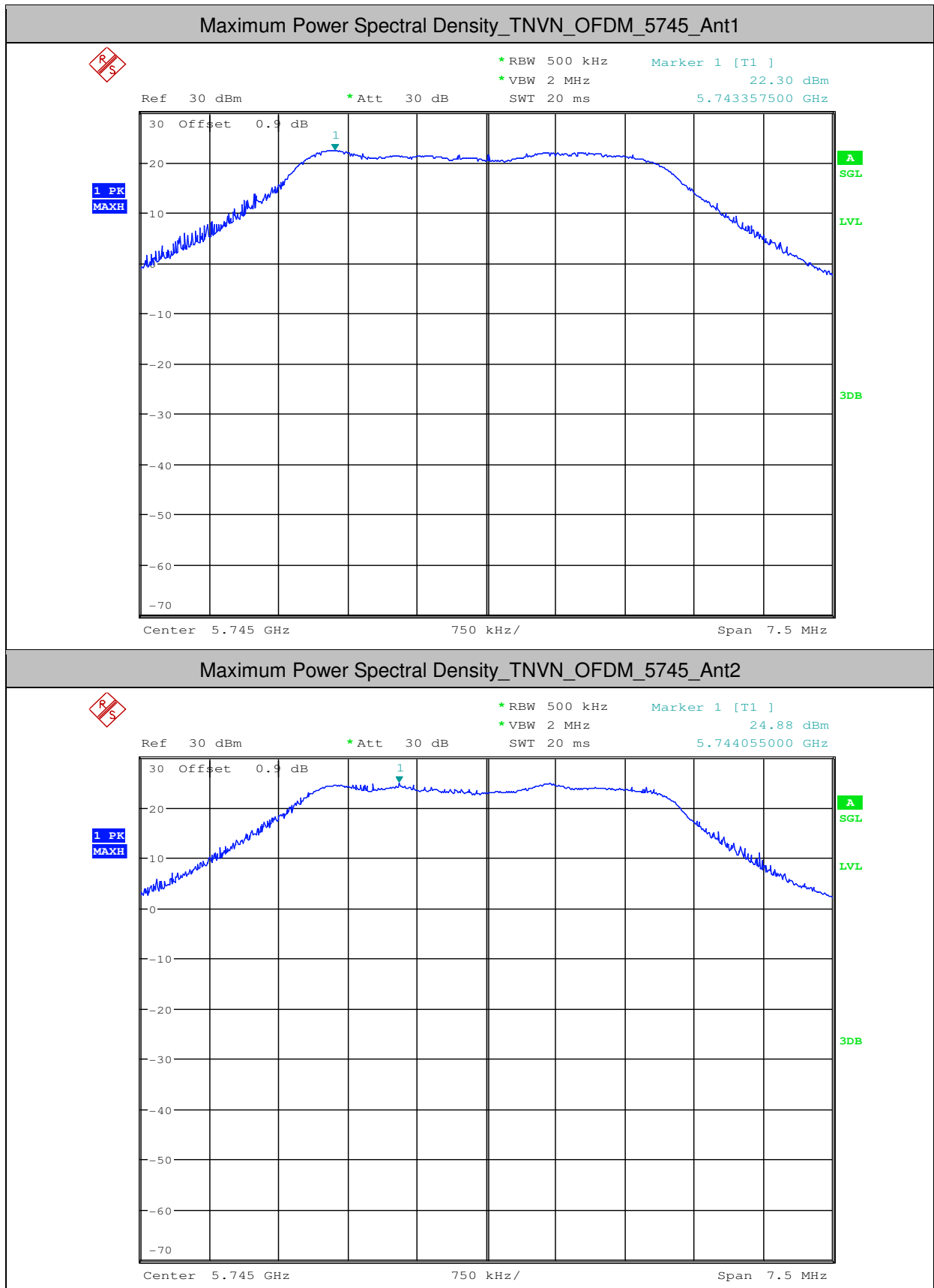
### 4.Maximum Power Spectral Density

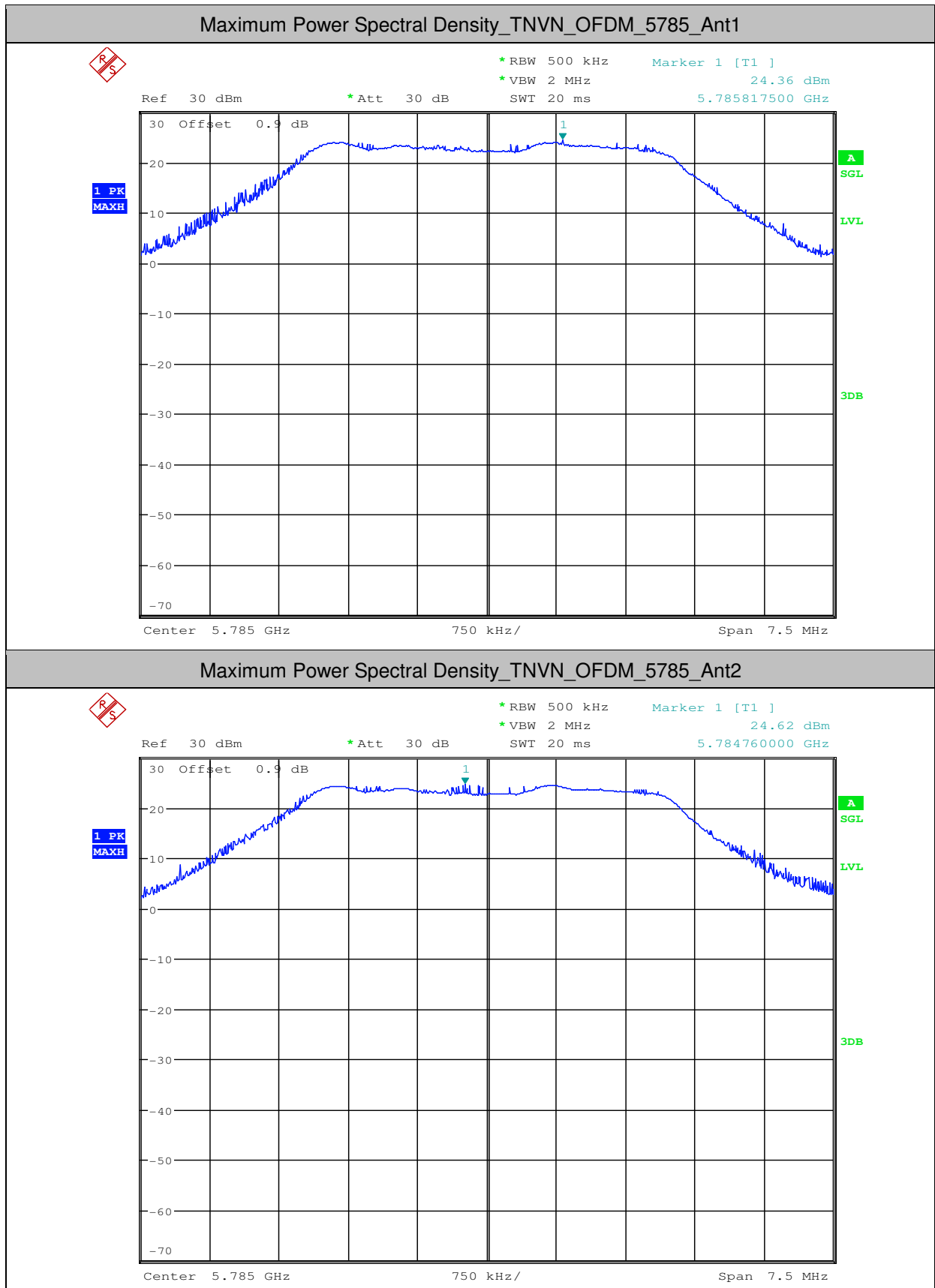
| Frequency<br>(MHz) | Maximum power spectral density (dBm/500kHz) |       |       | Limit<br>(dBm/500kHz) | Result |
|--------------------|---------------------------------------------|-------|-------|-----------------------|--------|
|                    | Ant1                                        | Ant2  | Total |                       |        |
| 5745.00            | 22.38                                       | 24.96 | 26.87 | 29.90                 | Pass   |
| 5785.00            | 24.44                                       | 24.70 | 27.58 | 29.90                 | Pass   |
| 5825.00            | 21.94                                       | 24.25 | 26.26 | 29.90                 | Pass   |

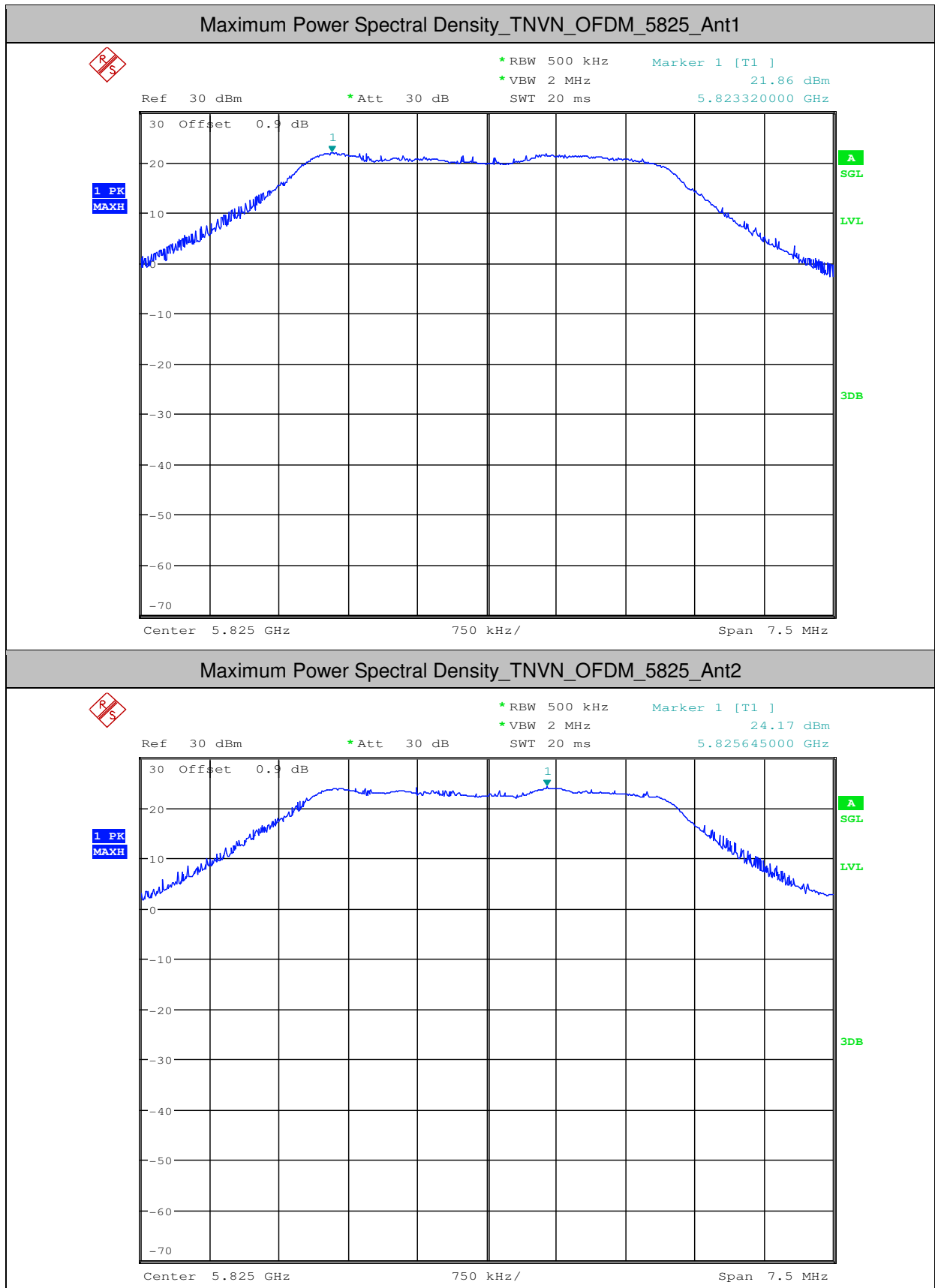
#### Remark:

PSD = Measured PSD + Duty factor

PSD: Maximum Power Spectral Density









**5.Duty Cycle (x)**

| Test Mode | Ant  | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|------|---------------|-----------------------|
| OFDM      | Ant1 | 98.15         | 0.08                  |
| OFDM      | Ant2 | 98.15         | 0.08                  |

