

## FCC TEST REPORT

## FOR

5.8G Wireless kit

Test Model: WSK200

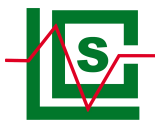
Prepared for : Origin Acoustics  
Address : 6975 S. Decatur Blvd, Las Vegas, Nevada United States

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd  
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,  
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Mail : webmaster@LCS-cert.com

Date of receipt of test sample : December 07, 2022  
Number of tested samples : 2  
Sample No. : A120122170-1, A120122170-2  
Sample number : Prototype  
Date of Test : December 07, 2022 ~ February 09, 2023  
Date of Report : February 09, 2023



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>FCC TEST REPORT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <b>FCC CFR 47 PART 15 C (15.249)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <b>Report Reference No. .... : LCSA120122170EA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Date of Issue..... : February 09, 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <b>Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Testing Location/ Procedure..... : Full application of Harmonised standards ■<br>Partial application of Harmonised standards □<br>Other standard testing method □                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Applicant's Name..... : Origin Acoustics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Address..... : 6975 S. Decatur Blvd, Las Vegas, Nevada United States                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <b>Test Specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Standard..... : FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Test Report Form No..... : LCSEMC-1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Master TRF..... : Dated 2011-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
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| <b>Test Item Description..... : 5.8G Wireless kit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Trade Mark..... : N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Test Model..... : WSK200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| Ratings..... : For AC Adapter Model: MKC-0500500HU<br>Input: 100-240V~, 50/60Hz, 0.4A<br>Output: 5V=500mA                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| <b>Result ..... : Positive</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |

Compiled by:

Rory Huang/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager

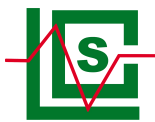


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**FCC -- TEST REPORT****Test Report No. : LCSA120122170EA**February 09, 2023

Date of issue

Test Model..... : WSK200

EUT..... : 5.8G Wireless kit

**Applicant..... : Origin Acoustics**

Address..... : 6975 S. Decatur Blvd, Las Vegas, Nevada United States

Telephone..... : /

Fax..... : /

**Manufacturer..... : Vistron (Dong Guan) Audio Equipment Co.,Ltd**

Address..... : NO.17 Ji Cai Street, Song Gang District, Qing Xi Town, Dong Guan City, Guang Dong Province, China.

Telephone..... : /

Fax..... : /

**Factory..... : Vistron (Dong Guan) Audio Equipment Co.,Ltd**

Address..... : NO.17 Ji Cai Street, Song Gang District, Qing Xi Town, Dong Guan City, Guang Dong Province, China.

Telephone..... : /

Fax..... : /

**Test Result****Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

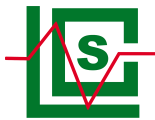


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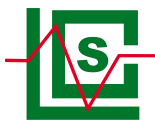
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## Revision History

| Report Version | Issue Date        | Revision Content | Revised By |
|----------------|-------------------|------------------|------------|
| 000            | February 09, 2023 | Initial Issue    | ---        |
|                |                   |                  |            |
|                |                   |                  |            |

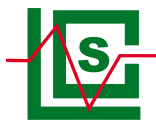




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## 1. GENERAL INFORMATION

### 1.1 Description of Device (EUT)

|                  |                                                                                              |
|------------------|----------------------------------------------------------------------------------------------|
| EUT              | : 5.8G Wireless kit                                                                          |
| Test Model       | : WSK200                                                                                     |
| Power Supply     | : For AC Adapter Model: MKC-0500500HU<br>Input: 100-240V~, 50/60Hz, 0.4A<br>Output: 5V=500mA |
| Hardware Version | : /                                                                                          |
| Software Version | : /                                                                                          |

#### 5.8G

|                     |                              |
|---------------------|------------------------------|
| Frequency Range     | : 5725MHz-5820MHz            |
| Channel Number      | : 96 Channels                |
| Channel Spacing     | : 1MHz                       |
| Modulation Type     | : GFSK                       |
| Antenna Description | : PCB Antenna, 1.55dBi(Max.) |

#### Channel list:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 5725            | 25      | 5749            | 49      | 5773            | 73      | 5797            |
| 2       | 5726            | 26      | 5750            | 50      | 5774            | 74      | 5798            |
| 3       | 5727            | 27      | 5751            | 51      | 5775            | 75      | 5799            |
| 4       | 5728            | 28      | 5752            | 52      | 5776            | 76      | 5800            |
| 5       | 5729            | 29      | 5753            | 53      | 5777            | 77      | 5801            |
| 6       | 5730            | 30      | 5754            | 54      | 5778            | 78      | 5802            |
| 7       | 5731            | 31      | 5755            | 55      | 5779            | 79      | 5803            |
| 8       | 5732            | 32      | 5756            | 56      | 5780            | 80      | 5804            |
| 9       | 5733            | 33      | 5757            | 57      | 5781            | 81      | 5805            |
| 10      | 5734            | 34      | 5758            | 58      | 5782            | 82      | 5806            |
| 11      | 5735            | 35      | 5759            | 59      | 5783            | 83      | 5807            |
| 12      | 5736            | 36      | 5760            | 60      | 5784            | 84      | 5808            |
| 13      | 5737            | 37      | 5761            | 61      | 5785            | 85      | 5809            |
| 14      | 5738            | 38      | 5762            | 62      | 5786            | 86      | 5810            |
| 15      | 5739            | 39      | 5763            | 63      | 5787            | 87      | 5811            |
| 16      | 5740            | 40      | 5764            | 64      | 5788            | 88      | 5812            |
| 17      | 5741            | 41      | 5765            | 65      | 5789            | 89      | 5813            |
| 18      | 5742            | 42      | 5766            | 66      | 5790            | 90      | 5814            |

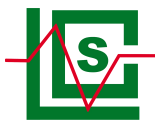


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|    |      |    |      |    |      |    |      |
|----|------|----|------|----|------|----|------|
| 19 | 5743 | 43 | 5767 | 67 | 5791 | 91 | 5815 |
| 20 | 5744 | 44 | 5768 | 68 | 5792 | 92 | 5816 |
| 21 | 5745 | 45 | 5769 | 69 | 5793 | 93 | 5817 |
| 22 | 5746 | 46 | 5770 | 70 | 5794 | 94 | 5818 |
| 23 | 5747 | 47 | 5771 | 71 | 5795 | 95 | 5819 |
| 24 | 5748 | 48 | 5772 | 72 | 5796 | 96 | 5820 |



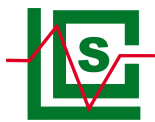
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## 1.2. Support Equipment List

| Manufacturer | Description | Model         | Serial Number | Certificate |
|--------------|-------------|---------------|---------------|-------------|
| Merryking    | ADAPTER     | MKC-0500500HU | --            | FCC         |

## 1.3. External I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| Type-C Port          | 1        | N/A   |

## 1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

## 1.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

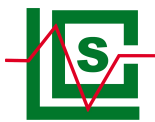
## 1.6. Measurement Uncertainty

| Test Item              | Frequency Range | Uncertainty | Note |
|------------------------|-----------------|-------------|------|
| Radiation Uncertainty  | 9KHz~30MHz      | ±3.10dB     | (1)  |
|                        | 30MHz~200MHz    | ±2.96dB     | (1)  |
|                        | 200MHz~1000MHz  | ±3.10dB     | (1)  |
|                        | 1GHz~26.5GHz    | ±3.80dB     | (1)  |
|                        | 26.5GHz~40GHz   | ±3.90dB     | (1)  |
| Conduction Uncertainty | 150kHz~30MHz    | ±1.63dB     | (1)  |
| Power disturbance      | 30MHz~300MHz    | ±1.60dB     | (1)  |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.







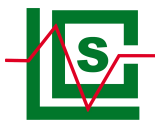
### 1.7. Description of Test Modes

Operates in the unlicensed ISM Band at 5.8GHz. With basic data rate feature, the data rates can be up to 1 Mb/s by modulating the RF carrier using GFSK techniques. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

| Mode of Operations     | Frequency Range (MHz) | Data Rate (Mbps) |
|------------------------|-----------------------|------------------|
| CW                     | 5725                  | /                |
|                        | 5775                  | /                |
|                        | 5820                  | /                |
| For Conducted Emission |                       |                  |
| Test Mode              | TX Mode               |                  |
| For Radiated Emission  |                       |                  |
| Test Mode              | TX Mode               |                  |

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX.





## 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

### 2.3. General Test Procedures

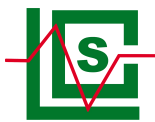
#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.





### 3. CONNECTION DIAGRAM OF TEST SYSTEM

#### 3.1. Justification

The system was configured for testing in a continuous transmit condition.

#### 3.2. EUT Exercise Software

Press the corresponding button, and change the channel.

#### 3.3. Special Accessories

N/A

#### 3.4. Block Diagram/Schematics

Please refer to the related document

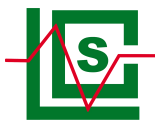
#### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### 3.6. Test Setup

Please refer to the test setup photo.





#### 4. SUMMARY OF TEST RESULTS

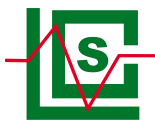
| Applied Standard: FCC Part 15 Subpart C §15.249               |                                |           |
|---------------------------------------------------------------|--------------------------------|-----------|
| FCC Rules                                                     | Description Of Test            | Result    |
| §15.203                                                       | Antenna Requirement            | Compliant |
| §15.207(a)                                                    | Power Line Conducted Emissions | Compliant |
| §15.205(a), §15.209(a),<br>§15.249(a), §15.249(b), §15.249(d) | Radiated Emissions Measurement | Compliant |
| §15.249 (d)                                                   | Band Edges Measurement         | Compliant |
| §15.215(c)                                                    | 20 dB Bandwidth                | Compliant |

Remark:

N/A\* - Not Applicable for this device!!!



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## 5. ANTENNA REQUIREMENT

### 5.1. Standard Applicable

According to § 15.203 and RSS-Gen, 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

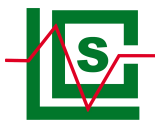
### 5.2. Antenna Connected Construction

The EUT use PCB Antenna and maximum antenna gain is 1.55dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

### 5.3. Results

Compliance





## 6. POWER LINE CONDUCTED EMISSIONS

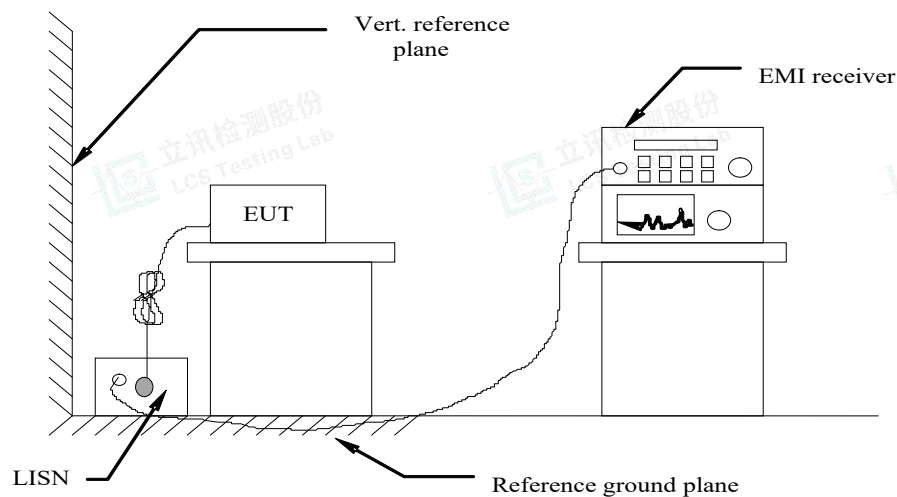
### 6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBμV) |          |
|-----------------------|---------------|----------|
|                       | Quasi-peak    | Average  |
| 0.15 to 0.50          | 66 to 56      | 56 to 46 |
| 0.50 to 5             | 56            | 46       |
| 5 to 30               | 60            | 50       |

\* Decreasing linearly with the logarithm of the frequency

### 6.2. Block Diagram of Test Setup



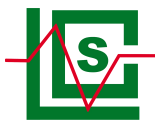
### 6.3. Test Results

**PASS.**

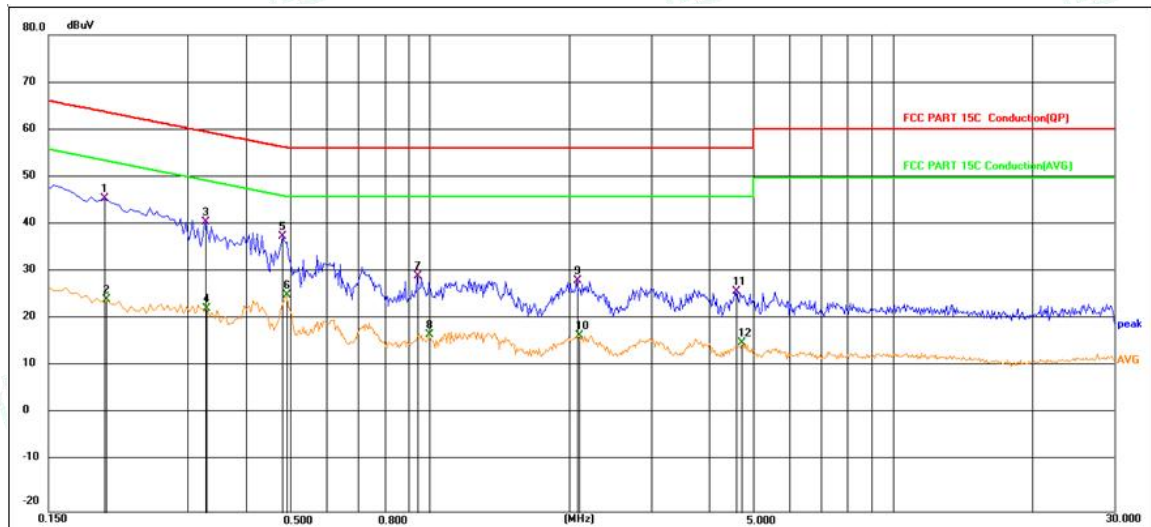
The test data please refer to following page.

|               |           |                |       |
|---------------|-----------|----------------|-------|
| Temperature   | 24.2°C    | Humidity       | 53.5% |
| Test Engineer | Jack Chen | Configurations | TX    |



**AC Conducted Emission @ AC 120V/60Hz (worst case)**

Line



| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB)    | (dBuV) | (dBuV) | (dB)   |        |
| 1   | 0.1996    | 26.01   | 19.63   | 45.64  | 63.63  | -17.99 | QP     |
| 2   | 0.1997    | 4.91    | 19.63   | 24.54  | 53.62  | -29.08 | AVG    |
| 3   | 0.3301    | 21.08   | 19.63   | 40.71  | 59.45  | -18.74 | QP     |
| 4   | 0.3303    | 2.94    | 19.63   | 22.57  | 49.44  | -26.87 | AVG    |
| 5   | 0.4831    | 18.03   | 19.64   | 37.67  | 56.29  | -18.62 | QP     |
| 6   | 0.4921    | 5.79    | 19.64   | 25.43  | 46.13  | -20.70 | AVG    |
| 7   | 0.9421    | 9.78    | 19.65   | 29.43  | 56.00  | -26.57 | QP     |
| 8   | 1.0005    | -2.54   | 19.65   | 17.11  | 46.00  | -28.89 | AVG    |
| 9   | 2.0851    | 8.76    | 19.68   | 28.44  | 56.00  | -27.56 | QP     |
| 10  | 2.0896    | -2.64   | 19.68   | 17.04  | 46.00  | -28.96 | AVG    |
| 11  | 4.6186    | 6.51    | 19.70   | 26.21  | 56.00  | -29.79 | QP     |
| 12  | 4.7401    | -4.23   | 19.70   | 15.47  | 46.00  | -30.53 | AVG    |



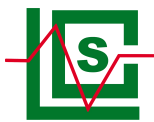
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

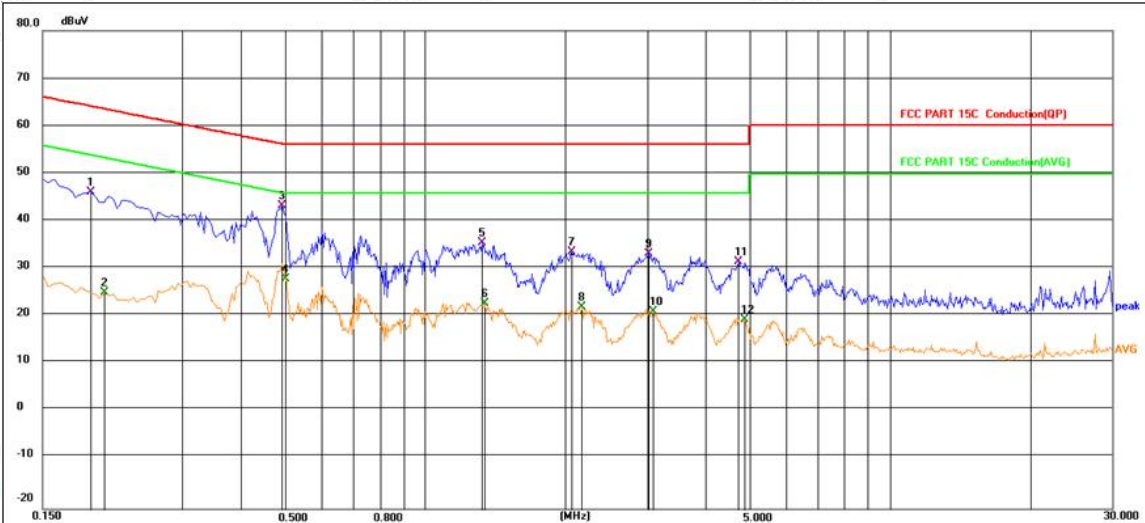
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity





Neutral

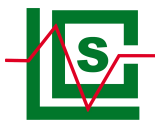


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1906             | 26.72             | 19.63           | 46.35            | 64.01           | -17.66         | QP     |
| 2   | 0.2041             | 5.57              | 19.63           | 25.20            | 53.44           | -28.24         | AVG    |
| 3   | 0.4921             | 23.82             | 19.64           | 43.46            | 56.13           | -12.67         | QP     |
| 4   | 0.5011             | 8.48              | 19.65           | 28.13            | 46.00           | -17.87         | AVG    |
| 5   | 1.3290             | 15.96             | 19.66           | 35.62            | 56.00           | -20.38         | QP     |
| 6   | 1.3381             | 3.43              | 19.66           | 23.09            | 46.00           | -22.91         | AVG    |
| 7   | 2.0626             | 14.02             | 19.68           | 33.70            | 56.00           | -22.30         | QP     |
| 8   | 2.1705             | 2.49              | 19.69           | 22.18            | 46.00           | -23.82         | AVG    |
| 9   | 3.0256             | 13.61             | 19.75           | 33.36            | 56.00           | -22.64         | QP     |
| 10  | 3.1021             | 1.46              | 19.76           | 21.22            | 46.00           | -24.78         | AVG    |
| 11  | 4.7356             | 11.83             | 19.80           | 31.63            | 56.00           | -24.37         | QP     |
| 12  | 4.8931             | -0.22             | 19.80           | 19.58            | 46.00           | -26.42         | AVG    |

\*\*\*Note:

- 1). Pre-scan all modes and recorded the worst case results in this report(CW).
- 2). Measurement = Reading + Correct, Margin = Measurement – Limit.  
Correct Factor= Lism Factor+Cable Factor





## 7. RADIATED EMISSION MEASUREMENT

### 7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

| Fundamental Frequency | Field Strength of fundamental (millivolts/meter) | Field Strength of harmonics (microvolts/meter) |
|-----------------------|--------------------------------------------------|------------------------------------------------|
| 902-928MHz            | 50                                               | 500                                            |
| 2400-2483.5MHz        | 50                                               | 500                                            |
| 5725-5875MHz          | 50                                               | 500                                            |
| 24.0-24.25GHz         | 250                                              | 2500                                           |

| Frequencies (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                             |

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

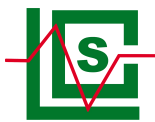
Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

### 7.2. Instruments Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter                        | Setting                                           |
|-------------------------------------------|---------------------------------------------------|
| Attenuation                               | Auto                                              |
| Start Frequency                           | 1000 MHz                                          |
| Stop Frequency                            | 10 <sup>th</sup> carrier harmonic                 |
| RB / VB (Emission in restricted band)     | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |





| Receiver Parameter     | Setting                                    |
|------------------------|--------------------------------------------|
| Attenuation            | Auto                                       |
| Start ~ Stop Frequency | 9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG  |
| Start ~ Stop Frequency | 150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB/VB 120kHz/1MHz for QP   |

### 7.3. Test Procedure

#### 1) Sequence of testing 9 kHz to 30 MHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

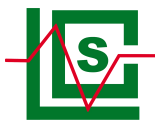
##### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

##### Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.





## 2) Sequence of testing 30 MHz to 1 GHz

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

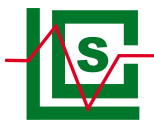
### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.





### 3) Sequence of testing 1 GHz to 18 GHz

#### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### Premeasurement:

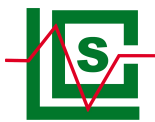
- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.







#### 4) Sequence of testing above 18 GHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

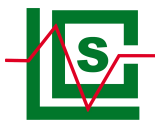
##### Premeasurement:

- The antenna is moved spherical over the EUT in different polarizations of the antenna.

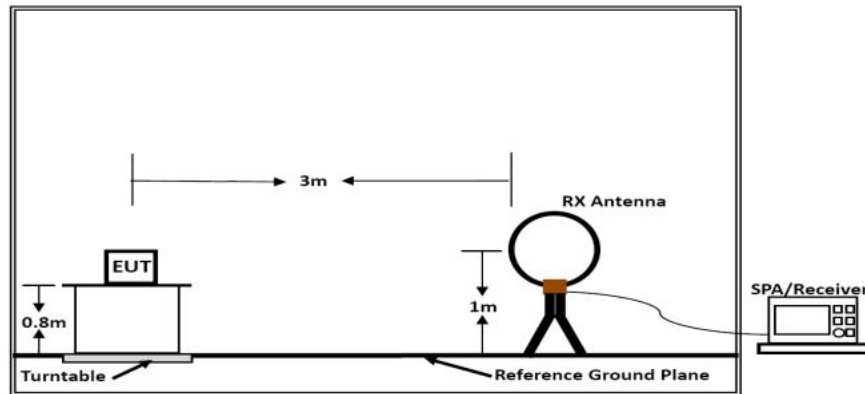
##### Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

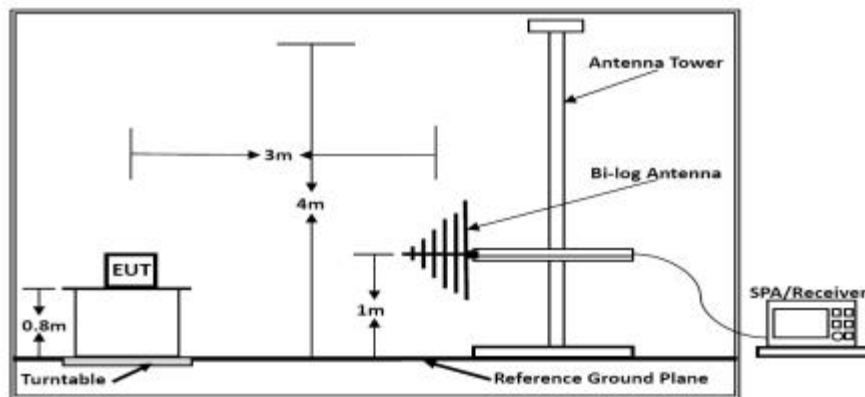




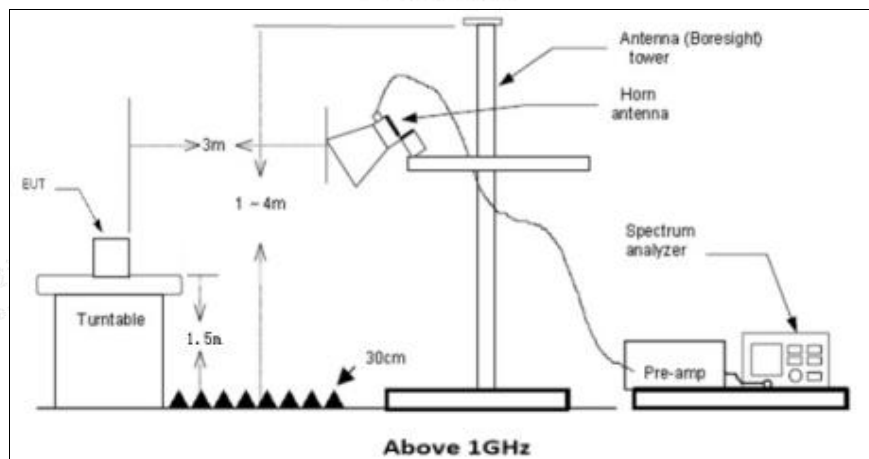
#### 7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

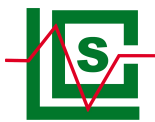
Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

#### 7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.







## 7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

|               |           |                |       |
|---------------|-----------|----------------|-------|
| Temperature   | 23.8℃     | Humidity       | 52.1% |
| Test Engineer | Jack Chen | Configurations | TX    |

| Freq.<br>(MHz) | Level<br>(dBuV) | Over Limit<br>(dB) | Over Limit<br>(dBuV) | Remark   |
|----------------|-----------------|--------------------|----------------------|----------|
| -              | -               | -                  | -                    | See Note |

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

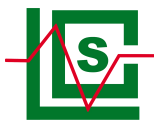
## 7.7. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

|               |           |                |       |
|---------------|-----------|----------------|-------|
| Temperature   | 23.8℃     | Humidity       | 52.1% |
| Test Engineer | Jack Chen | Configurations | TX    |

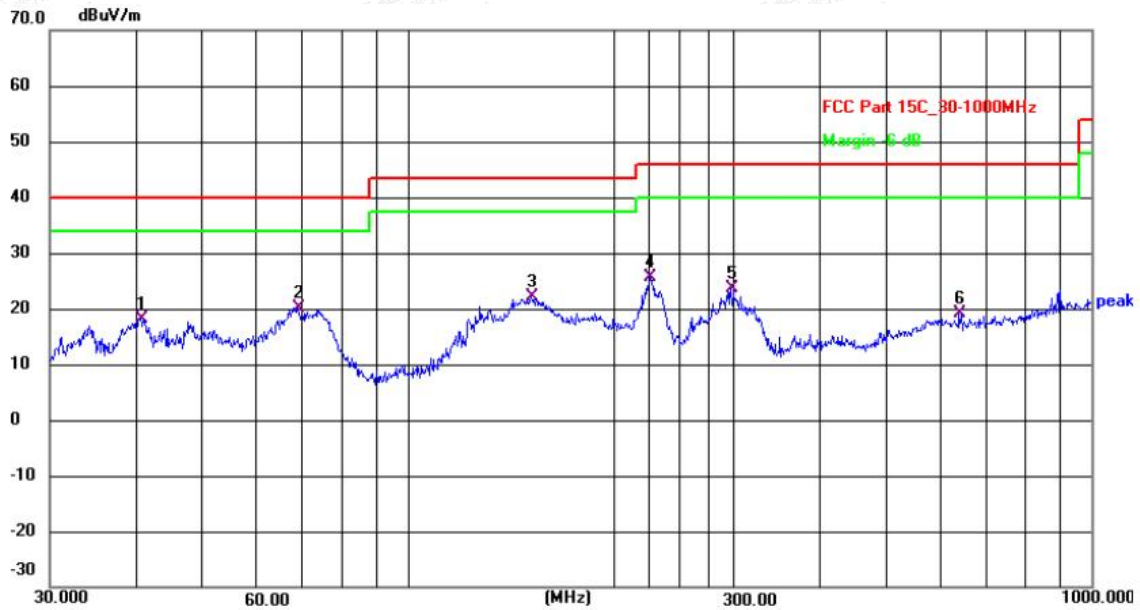
**PASS.**

The test data please refer to following page.





Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 40.7016         | 35.65          | -17.45        | 18.20          | 40.00          | -21.80      | QP       |
| 2   | 69.1141         | 39.54          | -19.41        | 20.13          | 40.00          | -19.87      | QP       |
| 3   | 151.5972        | 41.92          | -19.80        | 22.12          | 43.50          | -21.38      | QP       |
| 4   | 226.0994        | 42.25          | -16.70        | 25.55          | 46.00          | -20.45      | QP       |
| 5   | 297.2241        | 39.12          | -15.60        | 23.52          | 46.00          | -22.48      | QP       |
| 6   | 640.6110        | 30.18          | -11.05        | 19.13          | 46.00          | -26.87      | QP       |

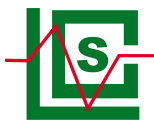


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Horizontal

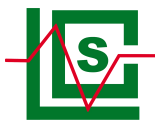


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 53.5052         | 33.07          | -17.67        | 15.40          | 40.00          | -24.60      | QP       |
| 2   | 74.9191         | 40.84          | -19.67        | 21.17          | 40.00          | -18.83      | QP       |
| 3   | 151.5972        | 35.99          | -19.80        | 16.19          | 43.50          | -27.31      | QP       |
| 4   | 228.4904        | 40.15          | -16.59        | 23.56          | 46.00          | -22.44      | QP       |
| 5   | 303.5437        | 40.15          | -15.42        | 24.73          | 46.00          | -21.27      | QP       |
| 6   | 640.6110        | 31.69          | -11.05        | 20.64          | 46.00          | -25.36      | QP       |

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (CW).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level – Limit,  
Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor





## 7.8. Results for Radiated Emissions (1 – 40 GHz)

## Channel 6 / 5725 MHz

| Field Strength of Fundamental (TX-5725 MHz) |      |                             |                              |                     |                    |        |
|---------------------------------------------|------|-----------------------------|------------------------------|---------------------|--------------------|--------|
| Frequency (MHz)                             | Pol. | Measure Result (PK, dBuV/m) | Measure Result (AVG, dBuV/m) | Peak Limit (dBuV/m) | AVG Limit (dBuV/m) | Result |
| 5725.25                                     | H    | 93.43                       | 83.74                        | 114                 | 94                 | Pass   |
| 5725.25                                     | V    | 94.27                       | 84.22                        | 114                 | 94                 | Pass   |

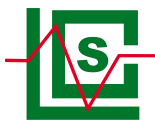
| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 11460     | 55.51              | 33.06          | 35.04        | 3.94         | 57.47           | 74.00        | -16.53    | Peak    | Horizontal |
| 11460     | 42.81              | 33.06          | 35.04        | 3.94         | 44.77           | 54.00        | -9.23     | Average | Horizontal |
| 11460     | 57.77              | 33.06          | 35.04        | 3.94         | 59.73           | 74.00        | -14.27    | Peak    | Vertical   |
| 11460     | 42.89              | 33.06          | 35.04        | 3.94         | 44.85           | 54.00        | -9.15     | Average | Vertical   |

## Channel 51 / 5775 MHz

| Field Strength of Fundamental (TX-5775 MHz) |      |                             |                              |                     |                    |        |
|---------------------------------------------|------|-----------------------------|------------------------------|---------------------|--------------------|--------|
| Frequency (MHz)                             | Pol. | Measure Result (PK, dBuV/m) | Measure Result (AVG, dBuV/m) | Peak Limit (dBuV/m) | AVG Limit (dBuV/m) | Result |
| 5775.10                                     | H    | 91.34                       | 83.71                        | 114                 | 94                 | Pass   |
| 5775.10                                     | V    | 93.68                       | 83.64                        | 114                 | 94                 | Pass   |

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 11550     | 55.91              | 33.16          | 35.15        | 3.96         | 57.88           | 74.00        | -16.12    | Peak    | Horizontal |
| 11550     | 44.07              | 33.16          | 35.15        | 3.96         | 46.04           | 54.00        | -7.96     | Average | Horizontal |
| 11550     | 60.08              | 33.16          | 35.15        | 3.96         | 62.05           | 74.00        | -11.95    | Peak    | Vertical   |
| 11550     | 45.53              | 33.16          | 35.15        | 3.96         | 47.50           | 54.00        | -6.50     | Average | Vertical   |





## Channel 96 / 5820 MHz

| Field Strength of Fundamental (TX-5820 MHz) |      |                             |                              |                     |                    |        |
|---------------------------------------------|------|-----------------------------|------------------------------|---------------------|--------------------|--------|
| Frequency (MHz)                             | Pol. | Measure Result (PK, dBuV/m) | Measure Result (AVG, dBuV/m) | Peak Limit (dBuV/m) | AVG Limit (dBuV/m) | Result |
| 5820.17                                     | H    | 95.39                       | 82.21                        | 114                 | 94                 | Pass   |
| 5820.17                                     | V    | 95.75                       | 83.17                        | 114                 | 94                 | Pass   |

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 11640     | 59.68              | 33.26          | 35.14        | 3.98         | 61.78           | 74.00        | -12.22    | Peak    | Horizontal |
| 11640     | 44.60              | 33.26          | 35.14        | 3.98         | 46.70           | 54.00        | -7.30     | Average | Horizontal |
| 11640     | 54.19              | 33.26          | 35.14        | 3.98         | 56.29           | 74.00        | -17.71    | Peak    | Vertical   |
| 11640     | 44.48              | 33.26          | 35.14        | 3.98         | 46.58           | 54.00        | -7.42     | Average | Vertical   |

## Notes:

- 1). Measuring frequencies from 9 KHz - 10<sup>th</sup> harmonic (ex. 40GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz - 10<sup>th</sup> harmonic (ex. 40GHz) were made with an instrument using Peak detector mode.
- 3). 18~25 GHz at least have 20dB margin. No recording in the test report.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit,  
Factor = Antenna Factor + Cable Loss - Preamp Factor



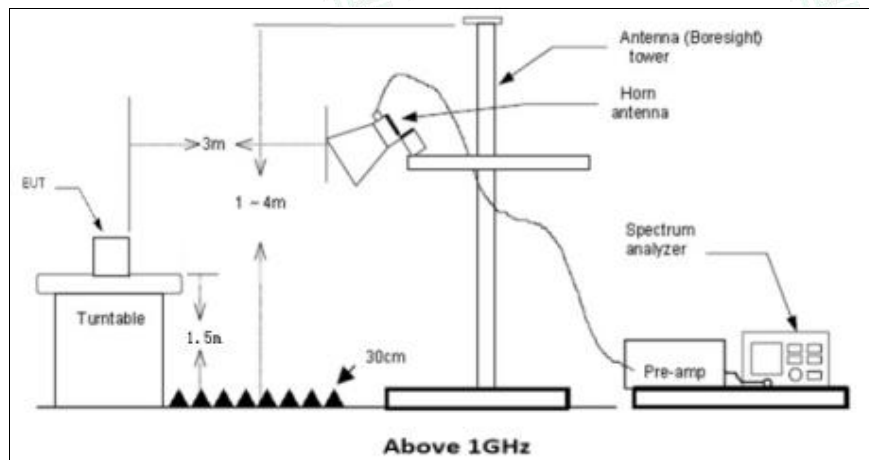
## 8. RESULTS FOR BAND EDGE TESTING

### 8.1. Standard Applicable

According to FCC §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

### 8.2. Test Setup Layout



### 8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

### 8.4. Test Procedures

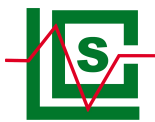
#### 3) Sequence of testing 1 GHz to 18 GHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.





**Premeasurement:**

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

**Final measurement:**

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

**8.5. Measuring Instruments and Setting**

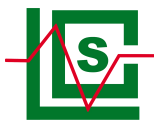
|               |           |                |       |
|---------------|-----------|----------------|-------|
| Temperature   | 23.5°C    | Humidity       | 52.1% |
| Test Engineer | Jack Chen | Configurations | TX    |

PASS

**Remark:**

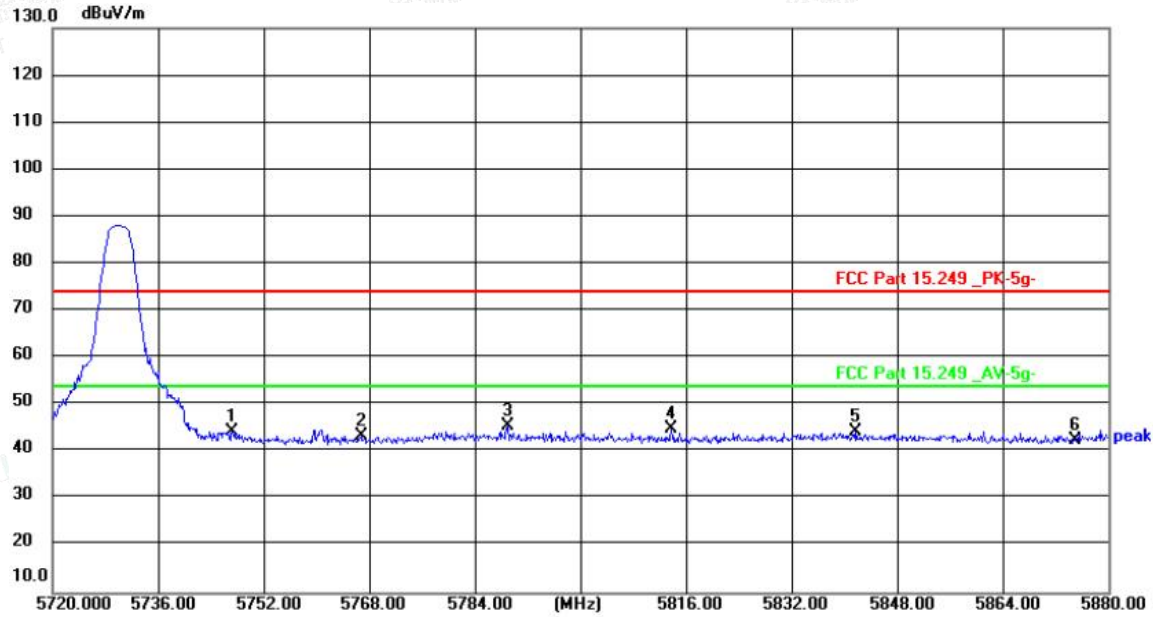
1. *The other emission levels were very low against the limit.*
2. *The average measurement was not performed when the peak measured data under the limit of average detection.*
3. *Please refer to following test plots;*





Channel Frequency 5725MHz

Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 5747.200        | 47.85          | -3.44         | 44.41          | 74.00          | -29.59      | peak     |
| 2   | 5766.720        | 46.78          | -3.47         | 43.31          | 74.00          | -30.69      | peak     |
| 3   | 5788.960        | 48.94          | -3.49         | 45.45          | 74.00          | -28.55      | peak     |
| 4   | 5813.760        | 48.54          | -3.52         | 45.02          | 74.00          | -28.98      | peak     |
| 5   | 5841.760        | 47.97          | -3.54         | 44.43          | 74.00          | -29.57      | peak     |
| 6   | 5875.000        | 46.19          | -3.57         | 42.62          | 74.00          | -31.38      | peak     |

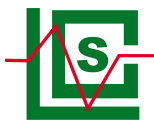


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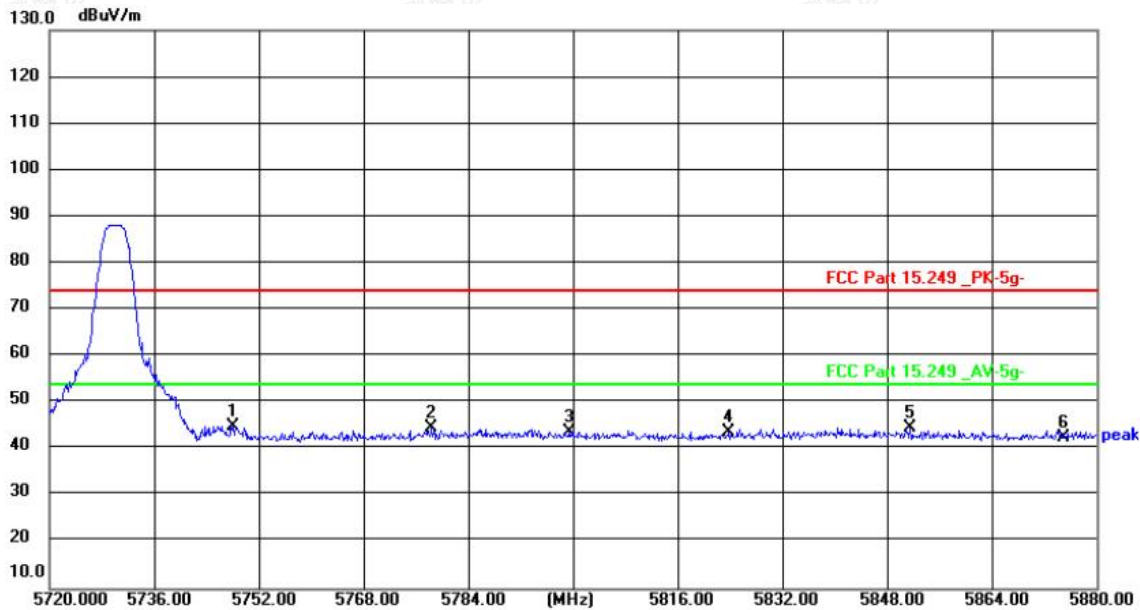
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Scan code to check authenticity

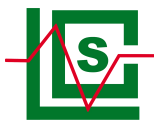


Vertical

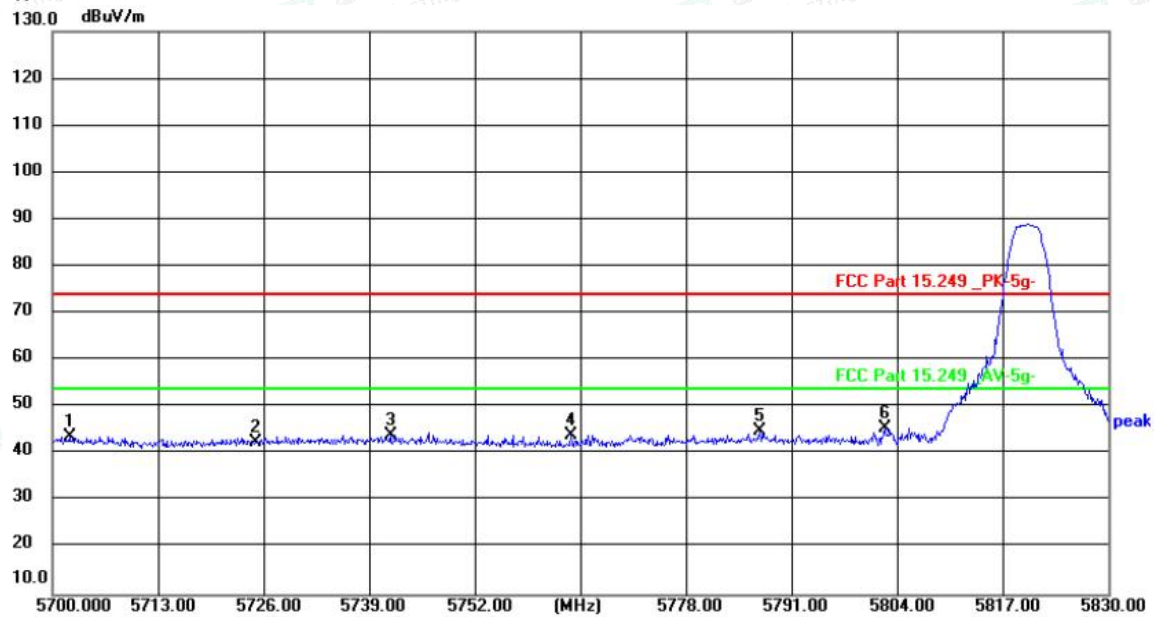


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 5748.000        | 48.29          | -3.44         | 44.85          | 74.00          | -29.15      | peak     |
| 2   | 5778.400        | 48.07          | -3.47         | 44.60          | 74.00          | -29.40      | peak     |
| 3   | 5799.360        | 47.33          | -3.50         | 43.83          | 74.00          | -30.17      | peak     |
| 4   | 5823.840        | 47.27          | -3.52         | 43.75          | 74.00          | -30.25      | peak     |
| 5   | 5851.520        | 48.19          | -3.54         | 44.65          | 74.00          | -29.35      | peak     |
| 6   | 5875.000        | 46.14          | -3.57         | 42.57          | 74.00          | -31.43      | peak     |



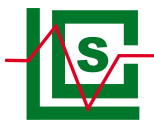


Channel Frequency 5820MHz  
Horizontal

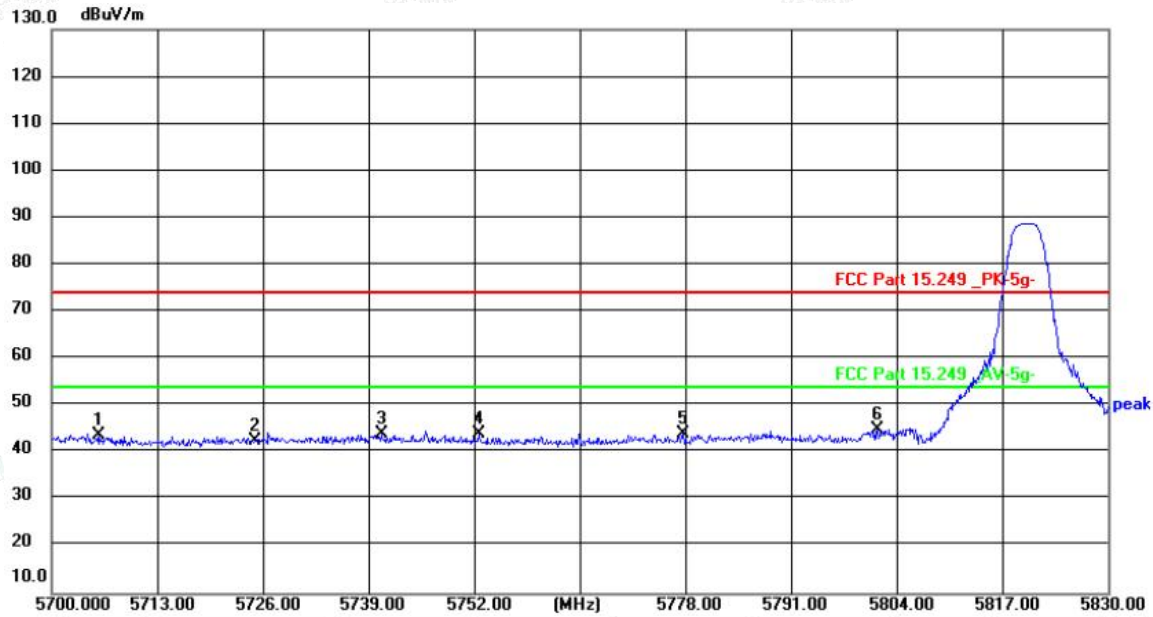


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 5702.080        | 47.23          | -3.40         | 43.83          | 74.00          | -30.17      | peak     |
| 2   | 5725.000        | 46.09          | -3.42         | 42.67          | 74.00          | -31.33      | peak     |
| 3   | 5741.600        | 47.49          | -3.44         | 44.05          | 74.00          | -29.95      | peak     |
| 4   | 5763.830        | 47.44          | -3.46         | 43.98          | 74.00          | -30.02      | peak     |
| 5   | 5787.100        | 48.41          | -3.48         | 44.93          | 74.00          | -29.07      | peak     |
| 6   | 5802.440        | 48.94          | -3.50         | 45.44          | 74.00          | -28.56      | peak     |





## Vertical



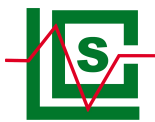
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 5705.720        | 47.11          | -3.41         | 43.70          | 74.00          | -30.30      | peak     |
| 2   | 5725.000        | 46.02          | -3.42         | 42.60          | 74.00          | -31.40      | peak     |
| 3   | 5740.560        | 47.37          | -3.44         | 43.93          | 74.00          | -30.07      | peak     |
| 4   | 5752.520        | 47.38          | -3.45         | 43.93          | 74.00          | -30.07      | peak     |
| 5   | 5777.740        | 47.39          | -3.47         | 43.92          | 74.00          | -30.08      | peak     |
| 6   | 5801.660        | 48.34          | -3.50         | 44.84          | 74.00          | -29.16      | peak     |

## Notes:

Measured Level = Reading Level + Factor, Margin = Measured Level – Limit,  
Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor





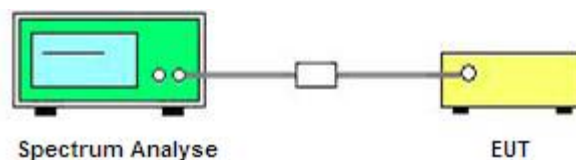


## 9. 20 DB BANDWIDTH MEASUREMENT

### 9.1. Standard Applicable

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 9.2. Block Diagram of Test Setup



### 9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 10MHz

RBW = 100KHz

VBW = 300KHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).



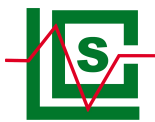
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## 9.4. Test Results

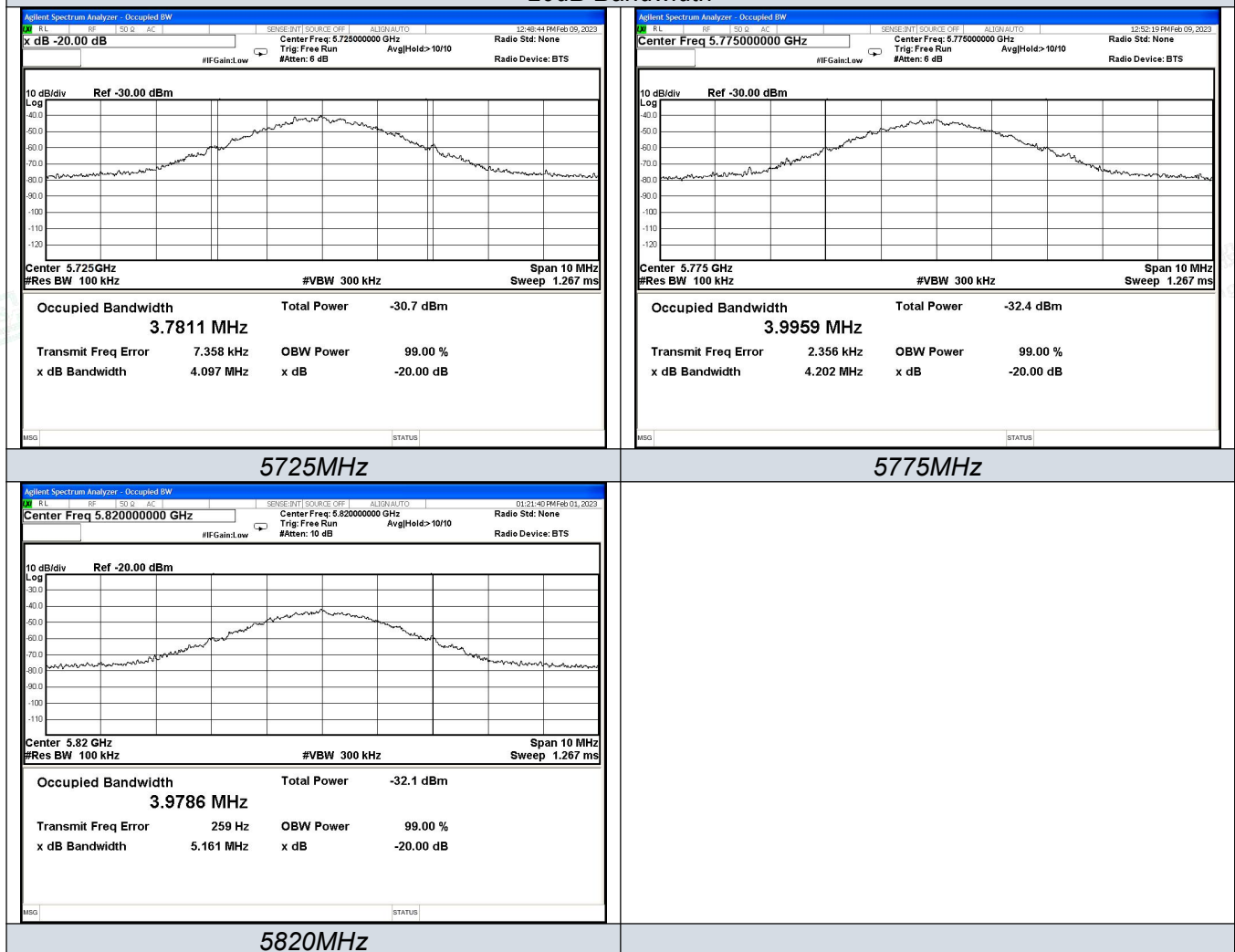
|               |           |          |       |
|---------------|-----------|----------|-------|
| Temperature   | 23.8°C    | Humidity | 52.1% |
| Test Engineer | Jack Chen |          |       |

| Test Result of 20dB Bandwidth Measurement |                     |                      |               |
|-------------------------------------------|---------------------|----------------------|---------------|
| Test Frequency (MHz)                      | 99% Bandwidth (MHz) | 20dB Bandwidth (MHz) | Limit (kHz)   |
| 5725                                      | 3.781               | 4.097                | Non-Specified |
| 5775                                      | 3.995               | 4.202                | Non-Specified |
| 5820                                      | 3.978               | 5.151                | Non-Specified |

Remark:

1. Test results including cable loss;
2. Please refer following test plots;

## 20dB Bandwidth

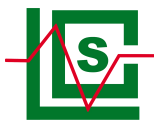


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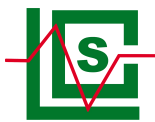
Scan code to check authenticity



## 10. LIST OF MEASURING EQUIPMENT

| Item | Equipment                      | Manufacturer      | Model No.   | Serial No.      | Cal Date   | Due Date   |
|------|--------------------------------|-------------------|-------------|-----------------|------------|------------|
| 1    | MXA Signal Analyzer            | Agilent           | N9020A      | MY49100060      | 2022-10-29 | 2023-10-28 |
| 2    | DC Power Supply                | Agilent           | E3642A      | N/A             | 2022-10-29 | 2023-10-28 |
| 3    | Temperature & Humidity Chamber | GUANGZHOU GOGNWEN | GDS-100     | 70932           | 2022-10-06 | 2023-10-05 |
| 4    | EMI Test Software              | AUDIX             | E3          | /               | N/A        | N/A        |
| 5    | 3m Semi Anechoic Chamber       | SIDT FRANKONIA    | SAC-3M      | 03CH03-HY       | 2022-06-16 | 2023-06-15 |
| 6    | Positioning Controller         | Max-Full          | MF7802BS    | MF780208586     | N/A        | N/A        |
| 7    | Active Loop Antenna            | SCHWARZBECK       | FMZB 1519B  | 00005           | 2021-08-29 | 2024-08-28 |
| 8    | By-log Antenna                 | SCHWARZBECK       | VULB9163    | 9163-470        | 2021-09-12 | 2024-09-11 |
| 9    | Horn Antenna                   | SCHWARZBECK       | BBHA 9120D  | 9120D-1925      | 2021-09-05 | 2024-09-04 |
| 10   | EMI Test Receiver              | R&S               | ESR 7       | 101181          | 2022-06-16 | 2023-06-15 |
| 11   | RS SPECTRUM ANALYZER           | R&S               | FSP40       | 100503          | 2022-10-29 | 2023-10-28 |
| 12   | Broadband Preamplifier         | /                 | BP-01M18G   | P190501         | 2022-06-16 | 2023-06-15 |
| 13   | EMI Test Receiver              | R&S               | ESPI        | 101940          | 2022-08-18 | 2023-08-17 |
| 14   | Artificial Mains               | R&S               | ENV216      | 101288          | 2022-06-16 | 2023-06-15 |
| 15   | 10dB Attenuator                | SCHWARZBECK       | MTS-IMP-136 | 261115-001-0032 | 2022-06-16 | 2023-06-15 |
| 16   | EMI Test Software              | Farad             | EZ          | /               | N/A        | N/A        |





## 11. TEST SETUP PHOTOGRAPHS OF THE EUT

Please refer to separated files for Test Setup Photos of the EUT.

## 12. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

## 13. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

