

## MEASUREMENT REPORT

### FCC PART 24 & 27

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**FCC ID:** HD5-EDA711

**Applicant:** Honeywell International Inc.  
Honeywell Safety and Productivity Solution

**Application Type:** Certification

**Product:** Tablet

**Model No.:** EDA71-1

**Brand Name:** Honeywell

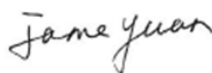
**FCC Classification:** PCS Licensed Transmitter (PCB)

**FCC Rule Part(s):** Part 24 Subpart E  
Part 27 Subpart L & H & F & M & N

**Test Procedure(s):** ANSI C63.26-2015, KDB 971168 D01v03r01

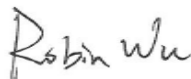
**Test Date:** July 06 ~ Aug 15, 2020

Reviewed By:



( Jame Yuan )

Approved By:



( Robin Wu )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

### Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2001RSU044-U8 | Rev. 01 | Initial Report | 08-18-2020 | Valid |
|               |         |                |            |       |

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## General Information

|                              |                                                                                    |
|------------------------------|------------------------------------------------------------------------------------|
| <b>Applicant:</b>            | Honeywell International Inc.<br>Honeywell Safety and Productivity Solutions        |
| <b>Applicant Address:</b>    | 9680 Old Bailes Road, Fort Mill, SC 29707 United States                            |
| <b>Manufacturer:</b>         | Honeywell International Inc.<br>Honeywell Safety and Productivity Solutions        |
| <b>Manufacturer Address:</b> | 9680 Old Bailes Road, Fort Mill, SC 29707 United States                            |
| <b>Test Site:</b>            | MRT Technology (Suzhou) Co., Ltd                                                   |
| <b>Test Site Address:</b>    | D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China |

## Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is an FCC registered (MRT Designation No. CN1166) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.



## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The measurement facility compliant with the test site requirements specified in ANSI C63.4-2014.



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                         |                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------|
| Product Name            | Tablet                                                                                                  |
| Model No.               | EDA71-1                                                                                                 |
| Serial No.              | 20087B1290                                                                                              |
| Hardware Version        | IDH63_MB_V2.0.0                                                                                         |
| Software Version        | 213.01.00.0009E                                                                                         |
| IMEI                    | 990013560217445                                                                                         |
| Wi-Fi Specification     | 802.11a/b/g/n/ac                                                                                        |
| Bluetooth Version       | v4.2 dual mode                                                                                          |
| NFC Working Frequency   | 13.56MHz                                                                                                |
| Satellite               | GPS / GLONASS / BDS                                                                                     |
| GSM Operating Band      | GSM850 / PCS1900                                                                                        |
| WCDMA Operating Band    | Band II / IV / V                                                                                        |
| CDMA2000 Operating Band | BC0 / BC1                                                                                               |
| LTE Operating Band      | FDD Band: 2 / 4 / 7 / 12 / 13 / 17<br>TDD Band: 38 / 41                                                 |
| <b>Accessories</b>      |                                                                                                         |
| USB Adapter             | Model No.: ADS-12B-06 05010E<br>Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A<br>Output Power: 5VDC 2.0A |
| Li-ion Battery 1#       | Model No.: BAT-EDA50US<br>Capacitance: 4000mAh/15.2Wh<br>Rated Voltage: 3.8V                            |
| Li-ion Battery 2#       | Model No.: EDA70-EXT<br>Capacitance: 8850mAh/33.45Wh<br>Rated Voltage: 3.78V                            |
| USB CUP                 | Model No.: EDA70-UC<br>Input: 5VDC 2.0A                                                                 |

## 2.2. Product Specification Subjective to this Report

|                                                      |                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Band                                     | LTE Band 2, 4, 7, 12, 13, 17, 38, 41                                                                                                                                                                                                                                                                                                                              |
| FDD T <sub>x</sub> Frequency Range:                  | Band 2: 1850 ~ 1910 MHz; Band 4: 1710 ~ 1755 MHz<br>Band 7: 2500 ~ 2570 MHz; Band 12: 699 ~ 716 MHz<br>Band 13: 777 ~ 787 MHz; Band 17: 704 ~ 716 MHz                                                                                                                                                                                                             |
| FDD R <sub>x</sub> Frequency Range:                  | Band 2: 1930 ~ 1990 MHz; Band 4: 2110 ~ 2155 MHz<br>Band 7: 2620 ~ 2690 MHz; Band 12: 729 ~ 746 MHz<br>Band 13: 746 ~ 756 MHz; Band 17: 734 ~ 746 MHz                                                                                                                                                                                                             |
| TDD T <sub>x</sub> & R <sub>x</sub> Frequency Range: | Band 38: 2570 ~ 2620 MHz; Band 41: 2496 ~ 2690 MHz;                                                                                                                                                                                                                                                                                                               |
| Bandwidth                                            | LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 13: 5MHz / 10MHz<br>LTE Band 17: 5MHz / 10MHz<br>LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz |
| Type of Modulation                                   | QPSK / 16-QAM                                                                                                                                                                                                                                                                                                                                                     |
| Antenna Gain                                         | Band 2: 1.0dBi; Band 4: 1.0dBi; Band 7: 0.0dBi<br>Band 12: -2.0dBi; Band 13: -1.0dBi; Band 17: -2.0dBi<br>Band 38 & Band 41: 0.0dBi                                                                                                                                                                                                                               |

Note 1: For other features of this EUT, test report will be issued separately.

Note 2: All product information is provided by the manufacturer.

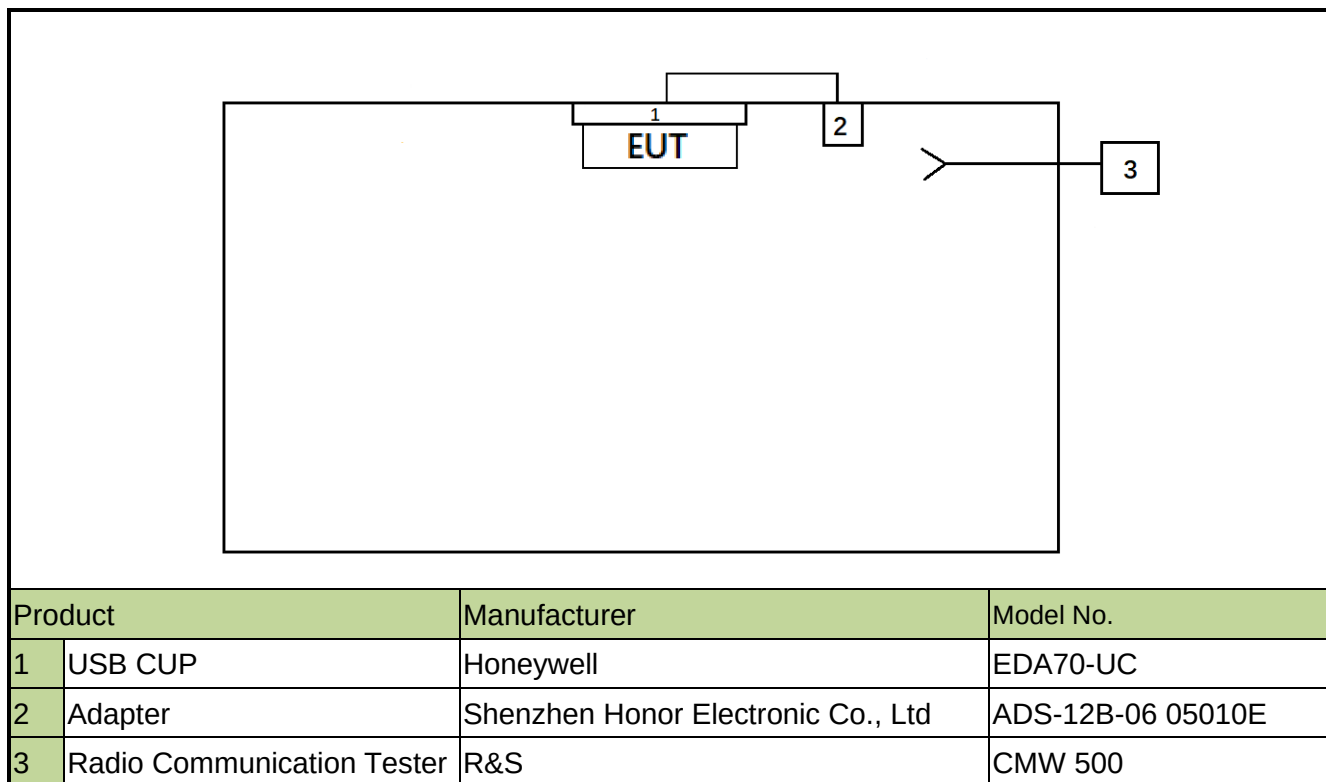
Note 3: LTE Band 41 (2496 ~ 2690 MHz) overlaps the entire frequency range of LTE Band 38 (2570 ~ 2620 MHz). Therefore, test data provided in this report covers Band 38 as well as Band 41.

### 2.3. Maximum Power, Frequency Tolerance, and Emission Designator

| LTE Band 2  |                    |            |                    | QPSK            | 16QAM           |
|-------------|--------------------|------------|--------------------|-----------------|-----------------|
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 1.4         | 1850.7 ~ 1909.3    | 1M09G7D    | -                  | 0.0964          | 0.0863          |
| 3           | 1851.5 ~ 1908.5    | 2M69G7D    | -                  | 0.0953          | 0.0828          |
| 5           | 1852.5 ~ 1907.5    | 4M48G7D    | -                  | 0.0946          | 0.0849          |
| 10          | 1855.0 ~ 1905.0    | 8M94G7D    | -                  | 0.0973          | 0.0787          |
| 15          | 1857.5 ~ 1902.5    | 13M4G7D    | -                  | 0.0962          | 0.0820          |
| 20          | 1860.0 ~ 1900.0    | 17M9G7D    | 0.0131             | 0.0968          | 0.0798          |
| LTE Band 4  |                    |            |                    | QPSK            | 16QAM           |
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 1.4         | 1710.7 ~ 1754.3    | 1M08G7D    | -                  | 0.0959          | 0.0869          |
| 3           | 1711.5 ~ 1753.5    | 2M69G7D    | -                  | 0.0964          | 0.0793          |
| 5           | 1712.5 ~ 1752.5    | 4M47G7D    | -                  | 0.0964          | 0.0807          |
| 10          | 1715.0 ~ 1750.0    | 8M94G7D    | -                  | 0.0966          | 0.0826          |
| 15          | 1717.5 ~ 1747.5    | 13M4G7D    | -                  | 0.0966          | 0.0851          |
| 20          | 1720.0 ~ 1745.0    | 17M9G7D    | 0.0169             | 0.0953          | 0.0830          |
| LTE Band 7  |                    |            |                    | QPSK            | 16QAM           |
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 5           | 2502.5 ~ 2567.5    | 4M48G7D    | -                  | 0.1130          | 0.0964          |
| 10          | 2505.0 ~ 2565.0    | 8M94G7D    | -                  | 0.1146          | 0.0995          |
| 15          | 2507.5 ~ 2562.5    | 13M4G7D    | -                  | 0.1138          | 0.0931          |
| 20          | 2510.0 ~ 2560.0    | 17M9G7D    | 0.0132             | 0.1161          | 0.0863          |
| LTE Band 12 |                    |            |                    | QPSK            | 16QAM           |
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 1.4         | 699.7 ~ 715.3      | 1M08G7D    | -                  | 0.0964          | 0.0815          |
| 3           | 700.5 ~ 714.5      | 2M69G7D    | -                  | 0.0975          | 0.0834          |
| 5           | 701.5 ~ 713.5      | 4M48G7D    | -                  | 0.0984          | 0.0713          |
| 10          | 704.0 ~ 711.0      | 8M95G7D    | 0.0459             | 0.1009          | 0.0815          |

| LTE Band 13 |                    |            |                    | QPSK            | 16QAM           |
|-------------|--------------------|------------|--------------------|-----------------|-----------------|
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 5           | 779.5 ~ 784.5      | 4M48G7D    | -                  | 0.0935          | 0.0729          |
| 10          | 782.0              | 8M92G7D    | 0.0208             | 0.0929          | 0.0745          |
| LTE Band 17 |                    |            |                    | QPSK            | 16QAM           |
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max ERP<br>(W)  | Max EIRP<br>(W) |
| 5           | 706.5 ~ 713.5      | 4M49G7D    |                    | 0.0957          | 0.0710          |
| 10          | 709.0 ~ 711.0      | 8M92G7D    | 0.0268             | 0.0962          | 0.0752          |
| LTE Band 38 |                    |            |                    | QPSK            | 16QAM           |
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 5           | 2502.5 - 2567.5    | 4M47G7D    | -                  | 0.2884          | 0.1968          |
| 10          | 2575.0 ~ 2615.0    | 8M94G7D    | -                  | 0.2618          | 0.2360          |
| 15          | 2577.5 ~ 2612.5    | 13M4G7D    | -                  | 0.2780          | 0.2104          |
| 20          | 2580 ~ 2610.0      | 17M8G7D    | 0.0311             | 0.2931          | 0.2213          |
| LTE Band 41 |                    |            |                    | QPSK            | 16QAM           |
| BW<br>(MHz) | Frequency<br>(MHz) | Designator | Tolerance<br>(ppm) | Max EIRP<br>(W) | Max EIRP<br>(W) |
| 5           | 2498.5 ~ 2687.5    | 4M47G7D    | -                  | 0.2723          | 0.2070          |
| 10          | 2501.0 ~ 2685.0    | 8M94G7D    | -                  | 0.2761          | 0.2636          |
| 15          | 2503.5 ~ 2682.5    | 13M4G7D    | -                  | 0.2754          | 0.2280          |
| 20          | 2506.0 ~ 2680.0    | 17M8G7D    | 0.0325             | 0.2931          | 0.2472          |

## 2.4. Description of Test Configuration and Software



## 2.5. Test Environment Condition

|                     |              |
|---------------------|--------------|
| Ambient Temperature | 15°C~35°C    |
| Relative Humidity   | 20%RH ~75%RH |

## 2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

### 3. TEST EQUIPMENT CALIBRATION DATE

#### Radiated Emission - AC1

| Instrument                          | Manufacturer | Type No.    | Asset No.   | Cali. Interval | Cali. Due Date |
|-------------------------------------|--------------|-------------|-------------|----------------|----------------|
| EMI Test Receiver                   | R&S          | ESR7        | MRTSUE06001 | 1 year         | 2021/08/01     |
| Wideband Radio Communication Tester | R&S          | CMW 500     | MRTSUE06243 | 1 year         | 2020/11/07     |
| PXA Signal Analyzer                 | Keysight     | 9030B       | MRTSUE06395 | 1 year         | 2020/09/03     |
| Loop Antenna                        | Schwarzbeck  | FMZB 1519   | MRTSUE06025 | 1 year         | 2020/11/10     |
| Bilog Period Antenna                | Schwarzbeck  | VULB 9168   | MRTSUE06172 | 1 year         | 2021/03/31     |
| Broad Band Horn Antenna             | Schwarzbeck  | BBHA 9120D  | MRTSUE06023 | 1 year         | 2020/10/13     |
| Broad Band Horn Antenna             | Schwarzbeck  | BBHA 9170   | MRTSUE06597 | 1 year         | 2021/02/23     |
| Microwave System Amplifier          | Agilent      | 83017A      | MRTSUE06076 | 1 year         | 2020/11/15     |
| Preamplifier                        | Schwarzbeck  | BBV 9721    | MRTSUE06121 | 1 year         | 2021/06/11     |
| Thermohygrometer                    | Testo        | 608-H1      | MRTSUE06403 | 1 year         | 2021/08/08     |
| Anechoic Chamber                    | TDK          | Chamber-AC1 | MRTSUE06212 | 1 year         | 2021/04/30     |

#### Radiated Emission - AC2

| Instrument                          | Manufacturer | Type No.    | Asset No.   | Cali. Interval | Cali. Due Date |
|-------------------------------------|--------------|-------------|-------------|----------------|----------------|
| Spectrum Analyzer                   | Keysight     | N9038A      | MRTSUE06125 | 1 year         | 2021/08/01     |
| Wideband Radio Communication Tester | R&S          | CMW 500     | MRTSUE06243 | 1 year         | 2020/11/07     |
| Loop Antenna                        | Schwarzbeck  | FMZB 1519   | MRTSUE06025 | 1 year         | 2020/11/10     |
| Bilog Period Antenna                | Schwarzbeck  | VULB 9162   | MRTSUE06022 | 1 year         | 2020/10/13     |
| Horn Antenna                        | Schwarzbeck  | BBHA9120D   | MRTSUE06171 | 1 year         | 2020/10/27     |
| Broad Band Horn Antenna             | Schwarzbeck  | BBHA 9170   | MRTSUE06597 | 1 year         | 2021/02/23     |
| Broadband Coaxial Preamplifier      | Schwarzbeck  | BBV 9718    | MRTSUE06176 | 1 year         | 2020/11/15     |
| Preamplifier                        | Schwarzbeck  | BBV 9721    | MRTSUE06121 | 1 year         | 2021/06/11     |
| Temperature/Humidity Meter          | Minggao      | ETH529      | MRTSUE06170 | 1 year         | 2020/12/15     |
| Anechoic Chamber                    | RIKEN        | Chamber-AC2 | MRTSUE06213 | 1 year         | 2021/04/30     |

## Conducted Test Equipment

| Instrument                             | Manufacturer | Type No.    | Asset No.   | Cali. Interval | Cali. Due Date |
|----------------------------------------|--------------|-------------|-------------|----------------|----------------|
| EXA Signal Analyzer                    | Agilent      | N9020A      | MRTSUE06106 | 1 year         | 2021/04/15     |
| EXA Signal Analyzer                    | Keysight     | N9010B      | MRTSUE06452 | 1 year         | 2021/07/11     |
| Signal Analyzer                        | R&S          | FSV40       | MRTSUE06218 | 1 year         | 2021/04/15     |
| Wideband Radio<br>Communication Tester | R&S          | CMW 500     | MRTSUE06243 | 1 year         | 2020/11/07     |
| Power Meter                            | Agilent      | U2021XA     | MRTSUE06030 | 1 year         | 2020/11/18     |
| USB wideband power sensor              | Keysight     | U2021XA     | MRTSUE06446 | 1 year         | 2021/06/30     |
| USB wideband power sensor              | Keysight     | U2021XA     | MRTSUE06447 | 1 year         | 2021/06/30     |
| Bluetooth Test Set                     | Anritsu      | MT8852B-042 | MRTSUE06389 | 1 year         | 2021/06/13     |
| Audio Analyzer                         | Agilent      | U8903B      | MRTSUE06143 | 1 year         | 2021/06/13     |
| Attenuator                             | MVE          | 6dB         | MRTSUE06534 | 1 year         | 2020/12/12     |
| Attenuator                             | MVE          | 10dB        | MRTSUE06543 | 1 year         | 2020/12/12     |
| Modulation Analyzer                    | HP           | 8901A       | MRTSUE06098 | 1 year         | 2020/10/10     |
| Wideband Radio<br>Communication Tester | R&S          | CMW 500     | MRTSUE06243 | 1 year         | 2020/11/07     |
| DC Power Supply                        | GWINSTEK     | DPS-3303C   | MRTSUE06064 | N/A            | N/A            |
| Temperature & Humidity<br>Chamber      | BAOYT        | BYH-150CL   | MRTSUE06051 | 1 year         | 2020/11/07     |
| Thermohygrometer                       | testo        | 608-H1      | MRTSUE06401 | 1 year         | 2021/08/08     |

| Software     | Version | Function          |
|--------------|---------|-------------------|
| EMI Software | V3      | EMI Test Software |

#### 4. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Radiated Disturbance</b>                                                                                                                                                                                                             |
| Measurement Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>Horizontal: 9kHz~300MHz: 5.04dB<br>300MHz~1GHz: 4.95dB<br>1GHz~40GHz: 6.40dB<br>Vertical: 9kHz~300MHz: 5.24dB<br>300MHz~1GHz: 6.03dB<br>1GHz~40GHz: 6.40dB |
| <b>Spurious Emissions, Conducted</b>                                                                                                                                                                                                    |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>0.78dB                                                                                                                                                       |
| <b>Output Power</b>                                                                                                                                                                                                                     |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>1.13dB                                                                                                                                                       |
| <b>Occupied Bandwidth</b>                                                                                                                                                                                                               |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>0.28%                                                                                                                                                        |

## 5. TEST RESULT

### 5.1. Summary

| FCC Part Section(s)                                     | Test Description                                                      | Test Limit                                                            | Test Condition | Test Result | Reference                  |
|---------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|----------------|-------------|----------------------------|
| 2.1049                                                  | Occupied bandwidth                                                    | N/A                                                                   | Conducted      | Pass        | Section 5.2                |
| 2.1051 ,24.238(a)<br>27.53(h),27.53(g),<br>27.53(c)(2)  | Band Edge<br>/Conducted Spurious<br>Emissions (band 2,<br>4,12,13,17) | $< 43 + \log_{10} (P[\text{Watts}])$                                  |                | Pass        | Section 5.3<br>Section 5.4 |
| 27.53(m)(4)                                             | Band Edge<br>/Conducted Spurious<br>Emissions (band 7,<br>38, 41)     | 27.53(m)(4) / $< 55 + \log_{10} (P[\text{Watts}])$                    |                |             |                            |
| 24.232(d)                                               | Peak-Average Ratio                                                    | $< 13 \text{ dB}$                                                     |                | Pass        | Section 5.5                |
| 2.1046                                                  | Transmitter<br>Conducted Output<br>Power                              | N/A                                                                   |                | Pass        | Section 5.6                |
| 27.50(b)(10)<br>27.50(c)(10)                            | Effective Radiated<br>Power (LTE Band<br>12,13,17)                    | $< 3 \text{ Watts max. ERP}$                                          |                | Pass        |                            |
| 24.232(c),<br>27.50(h)(2)                               | Equivalent Isotropic<br>Radiated Power<br>(LTE Band 2, 7, 38,<br>41)  | $< 2 \text{ Watts max. EIRP}$                                         |                |             |                            |
| 27.50(d)(4)                                             | Equivalent Isotropic<br>Radiated Power<br>(LTE Band 4)                | $< 1 \text{ Watts max. EIRP}$                                         |                | Pass        |                            |
| 24.235, 27.54                                           | Frequency Stability                                                   | Within authorized<br>frequency block                                  | Radiated       | Pass        | Section 5.7                |
| 2.1053, 24.238(a),<br>27.53(g), 27.53(h)<br>27.53(c)(2) | Undesirable<br>Emissions                                              | $> 43 + \log_{10} (P[\text{Watts}])$ for<br>all out-of-band emissions |                | Pass        | Section 5.8                |
| 2.1053, 27.53(m)(4)                                     |                                                                       | $> 55 + \log_{10} (P[\text{Watts}])$ for<br>all out-of-band emissions |                |             |                            |

**Notes:**

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Occupied Bandwidth, Channel Band Edge, Radiated & Conducted Spurious Emission were presented in the test report.

## 5.2. Occupied Bandwidth

### 5.2.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

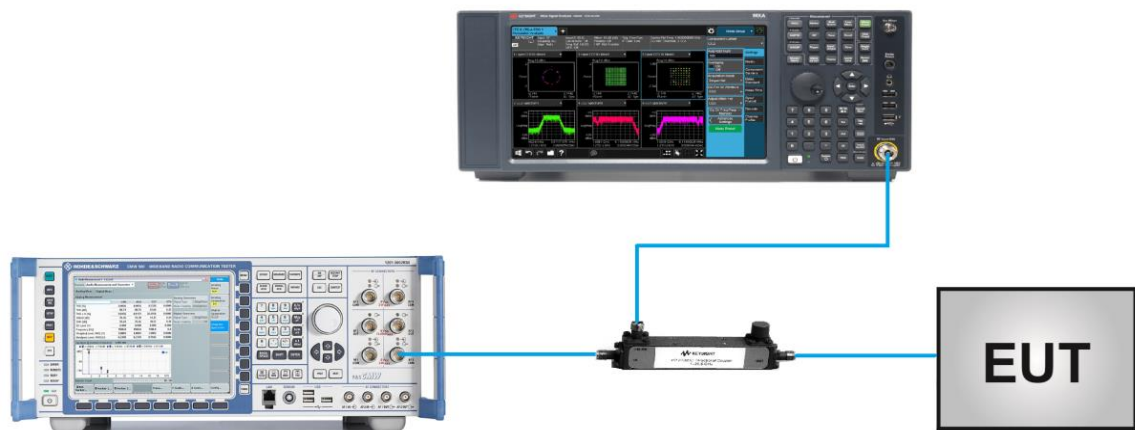
### 5.2.2. Test Procedure used

ANSI C63.26-2015 - Section 5.4.3& Section 5.4.4

### 5.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

### 5.2.4. Test Setup



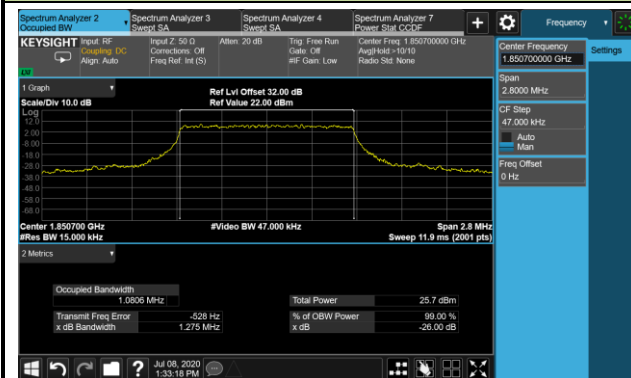
### 5.2.5. Test Result

|               |           |           |            |
|---------------|-----------|-----------|------------|
| Product       | Tablet    | Test Site | SR5        |
| Test Engineer | Candy Luo | Test Date | 2020/07/08 |
| Test Band     | Band 2    |           |            |

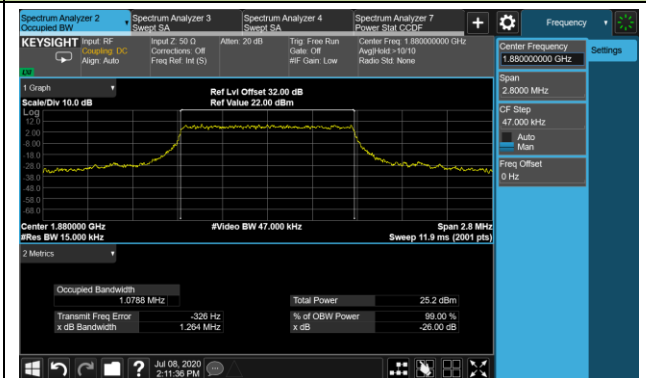
| Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) |
|--------------------|--------------------|------------------------|-------------------------|
| Low Channel        |                    |                        |                         |
| 1850.7             | 1.4                | 1.08                   | 1.28                    |
| 1851.5             | 3                  | 2.69                   | 2.95                    |
| 1852.5             | 5                  | 4.46                   | 4.93                    |
| 1855.0             | 10                 | 8.94                   | 9.70                    |
| 1857.5             | 15                 | 13.39                  | 14.49                   |
| 1860.0             | 20                 | 17.89                  | 19.36                   |
| Middle Channel     |                    |                        |                         |
| 1880.0             | 1.4                | 1.08                   | 1.26                    |
| 1880.0             | 3                  | 2.68                   | 2.93                    |
| 1880.0             | 5                  | 4.48                   | 4.94                    |
| 1880.0             | 10                 | 8.92                   | 9.68                    |
| 1880.0             | 15                 | 13.34                  | 14.35                   |
| 1880.0             | 20                 | 17.83                  | 18.97                   |
| High Channel       |                    |                        |                         |
| 1909.3             | 1.4                | 1.09                   | 1.25                    |
| 1908.5             | 3                  | 2.69                   | 2.93                    |
| 1907.5             | 5                  | 4.47                   | 4.93                    |
| 1905.0             | 10                 | 8.92                   | 9.64                    |
| 1902.5             | 15                 | 13.35                  | 14.42                   |
| 1900.0             | 20                 | 17.80                  | 19.14                   |

## LTE Band 2 99% & 26dB Occupied Bandwidth

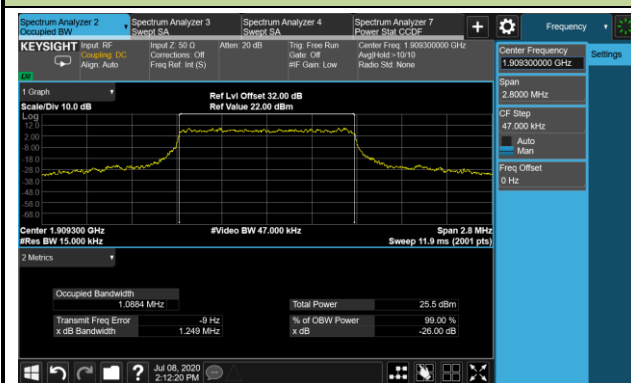
### Low CH. / 1.4MHz



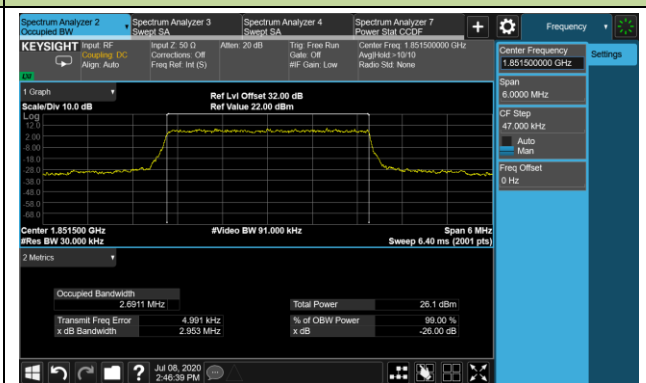
### Mid CH. / 1.4MHz



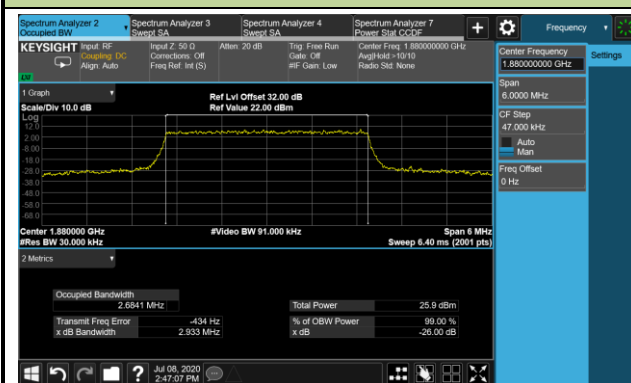
### High CH. / 1.4MHz



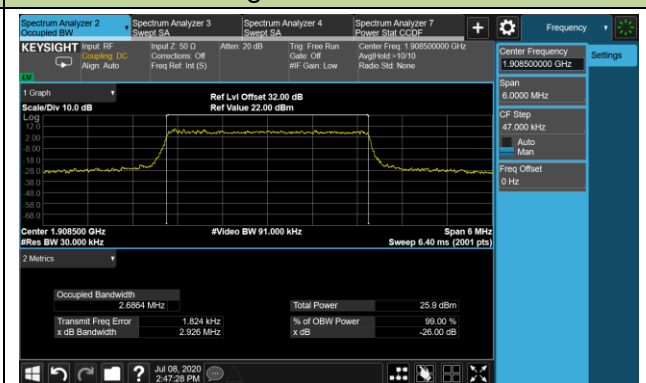
### Low CH. / 3MHz



### Mid CH. / 3MHz

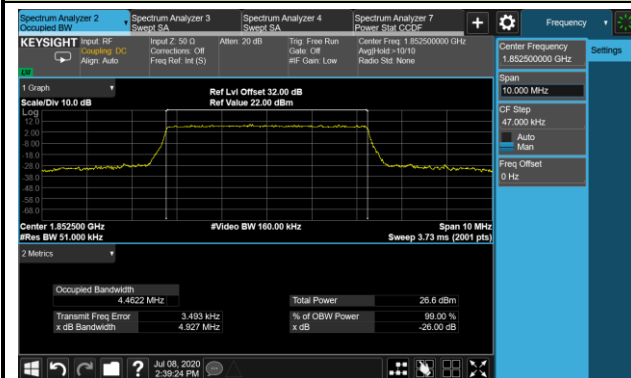


### High CH. / 3MHz

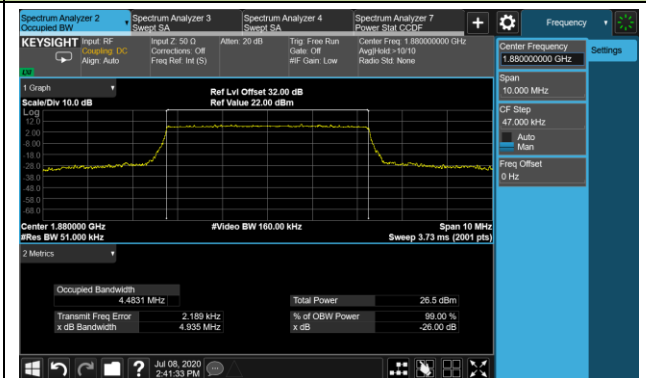


## LTE Band 2 99% & 26dB Occupied Bandwidth

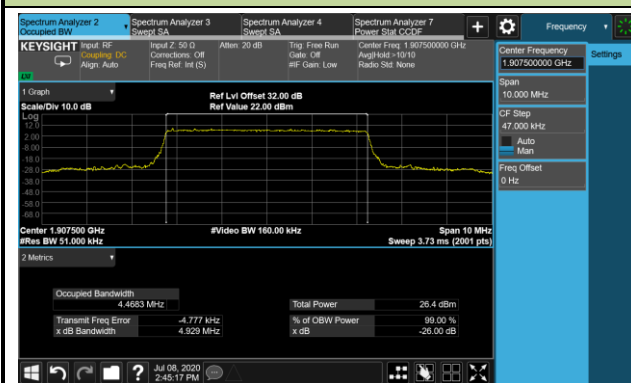
### Low CH. / 5MHz



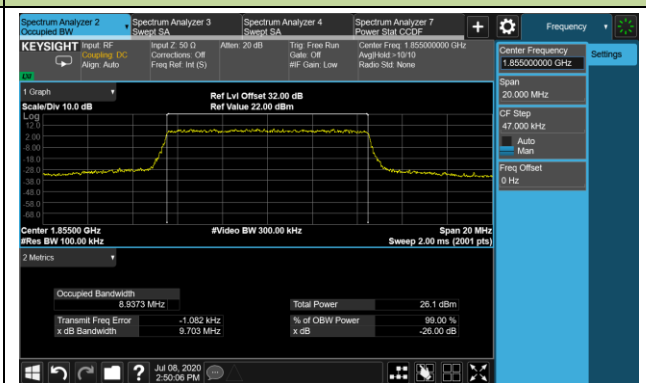
### Mid CH. / 5MHz



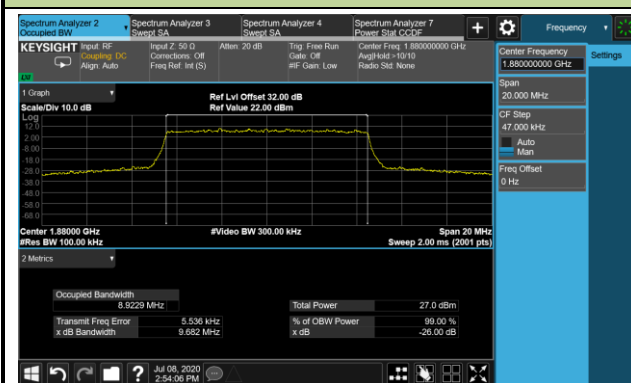
### High CH. / 5MHz



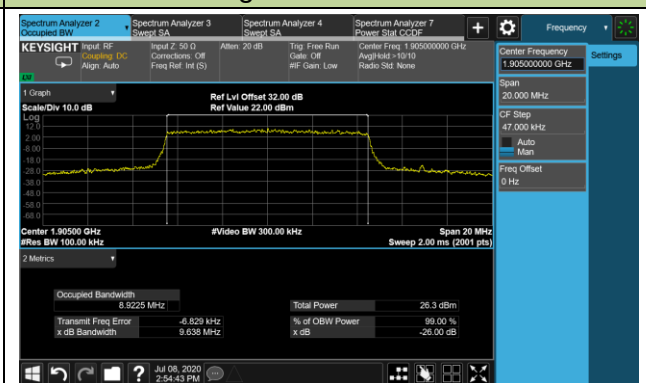
### Low CH. / 10MHz



### Mid CH. / 10MHz

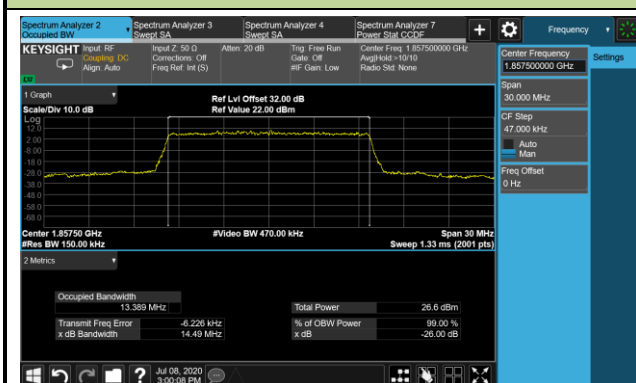


### High CH. / 10MHz

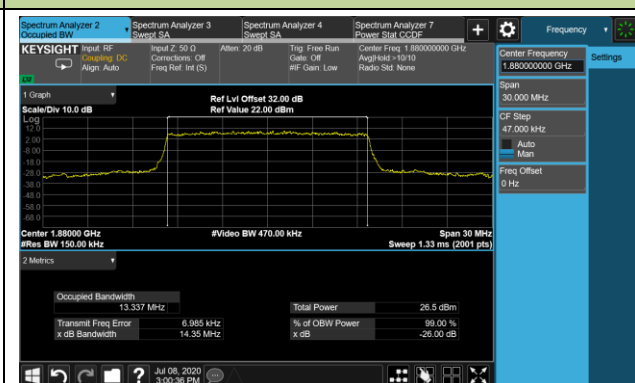


## LTE Band 2 99% & 26dB Occupied Bandwidth

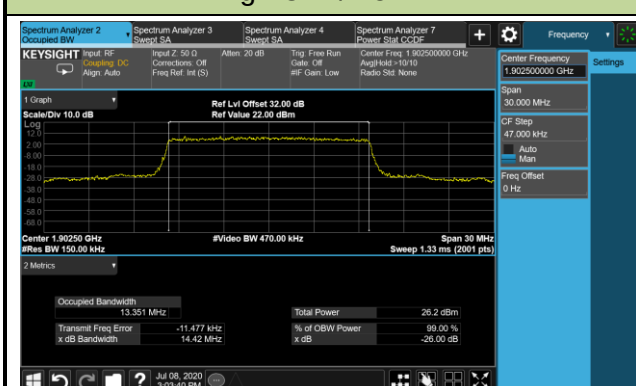
### Low CH. / 15MHz



### Mid CH. / 15MHz



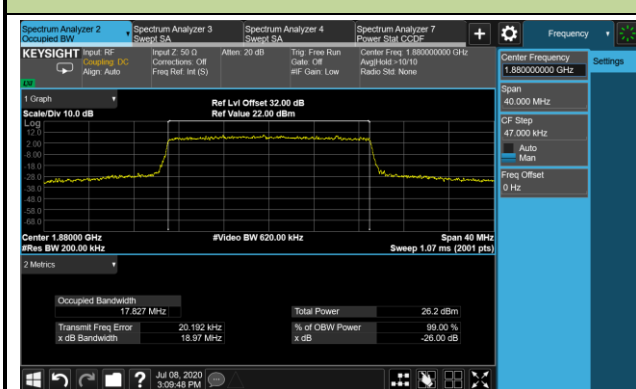
### High CH. / 15MHz



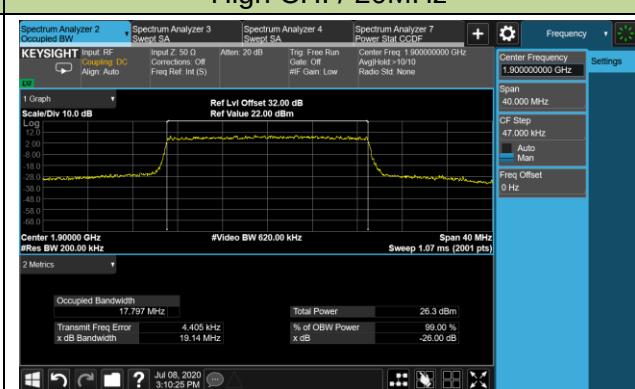
### Low CH. / 20MHz



### Mid CH. / 20MHz



### High CH. / 20MHz

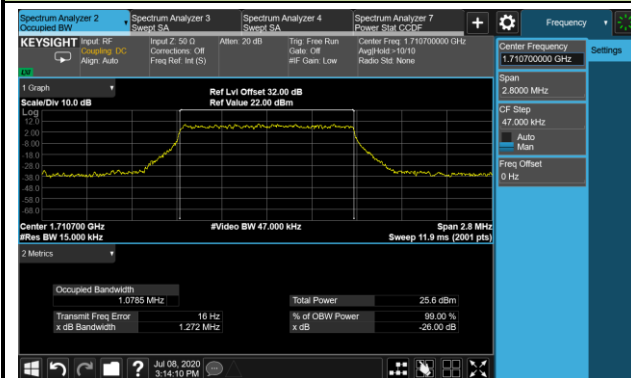


|               |           |           |            |
|---------------|-----------|-----------|------------|
| Product       | Tablet    | Test Site | SR5        |
| Test Engineer | Candy Luo | Test Date | 2020/07/08 |
| Test Band     | Band 4    |           |            |

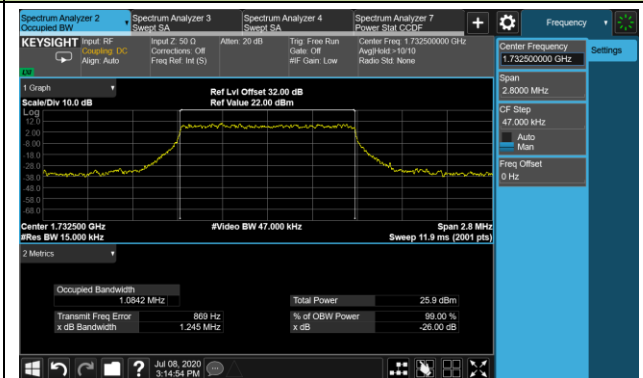
| Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) |
|--------------------|--------------------|------------------------|-------------------------|
| Low Channel        |                    |                        |                         |
| 1710.7             | 1.4                | 1.08                   | 1.27                    |
| 1711.5             | 3                  | 2.68                   | 2.94                    |
| 1712.5             | 5                  | 4.46                   | 4.90                    |
| 1715               | 10                 | 8.94                   | 9.60                    |
| 1717.5             | 15                 | 13.36                  | 14.46                   |
| 1720               | 20                 | 17.79                  | 19.19                   |
| Middle Channel     |                    |                        |                         |
| 1732.5             | 1.4                | 1.08                   | 1.25                    |
| 1732.5             | 3                  | 2.68                   | 2.90                    |
| 1732.5             | 5                  | 4.47                   | 4.91                    |
| 1732.5             | 10                 | 8.94                   | 9.77                    |
| 1732.5             | 15                 | 13.39                  | 14.49                   |
| 1732.5             | 20                 | 17.84                  | 19.04                   |
| High Channel       |                    |                        |                         |
| 1754.3             | 1.4                | 1.08                   | 1.26                    |
| 1753.5             | 3                  | 2.69                   | 2.92                    |
| 1752.5             | 5                  | 4.47                   | 4.93                    |
| 1750               | 10                 | 8.92                   | 9.62                    |
| 1747.5             | 15                 | 13.36                  | 14.29                   |
| 1745               | 20                 | 17.85                  | 19.09                   |

## LTE Band 4 99% & 26dB Occupied Bandwidth

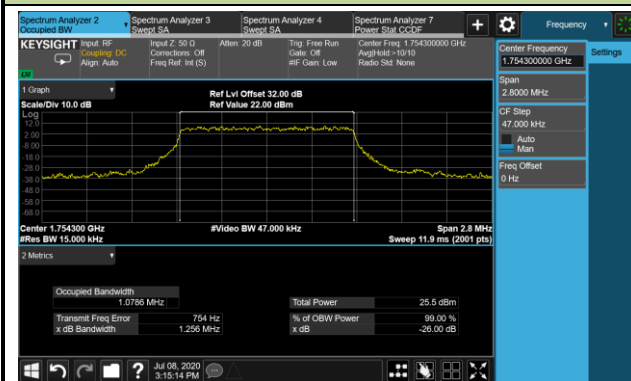
### Low CH. / 1.4MHz



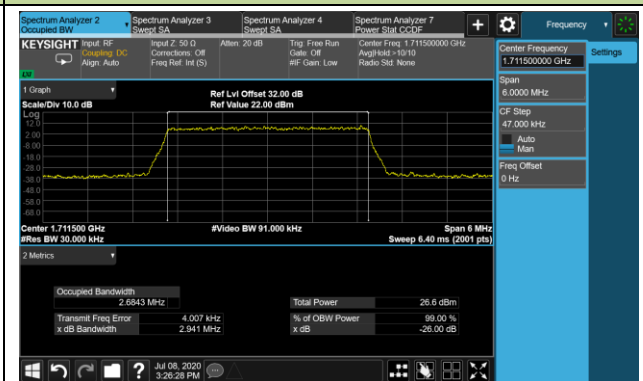
### Mid CH. / 1.4MHz



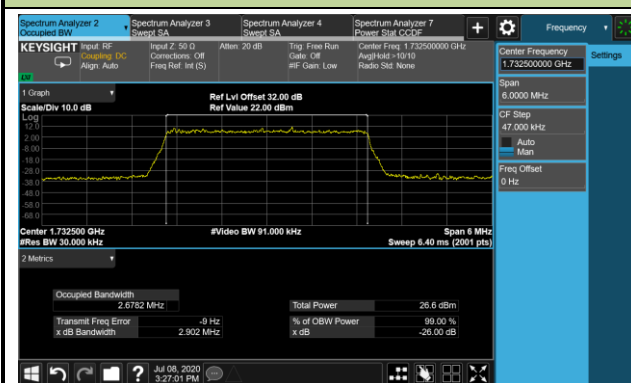
### High CH. / 1.4MHz



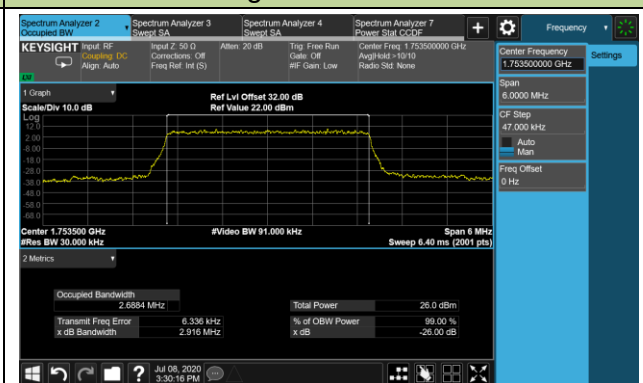
### Low CH. / 3MHz



### Mid CH. / 3MHz

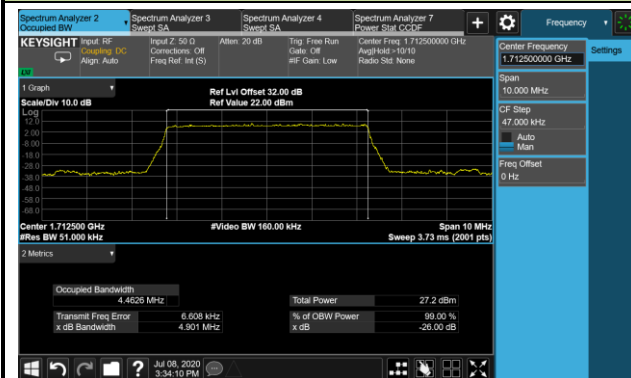


### High CH. / 3MHz

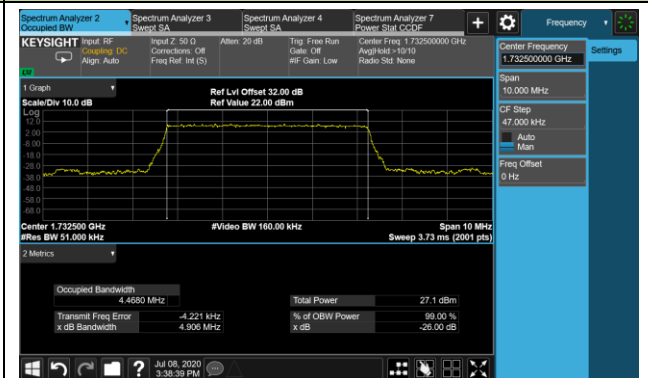


## LTE Band 4 99% & 26dB Occupied Bandwidth

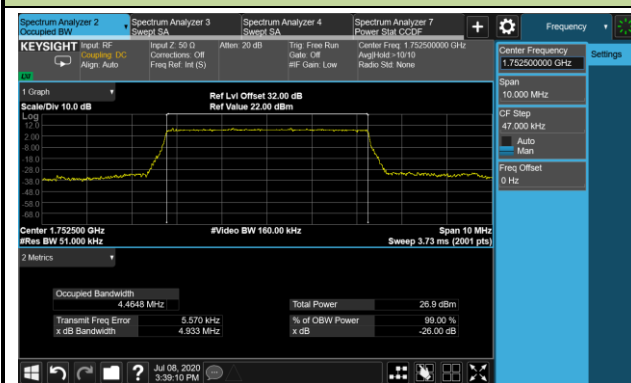
### Low CH. / 5MHz



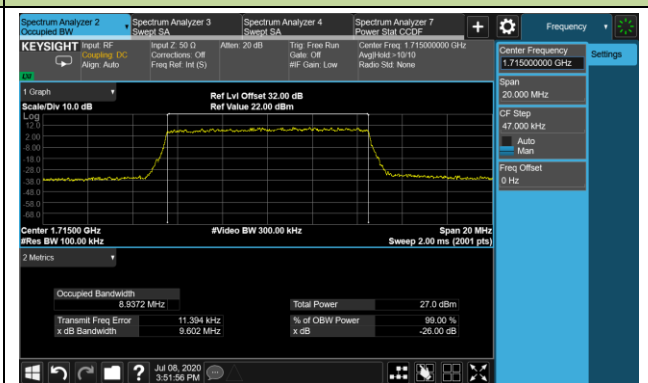
### Mid CH. / 5MHz



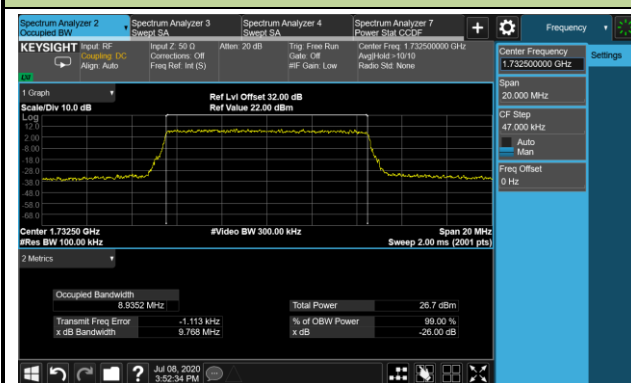
### High CH. / 5MHz



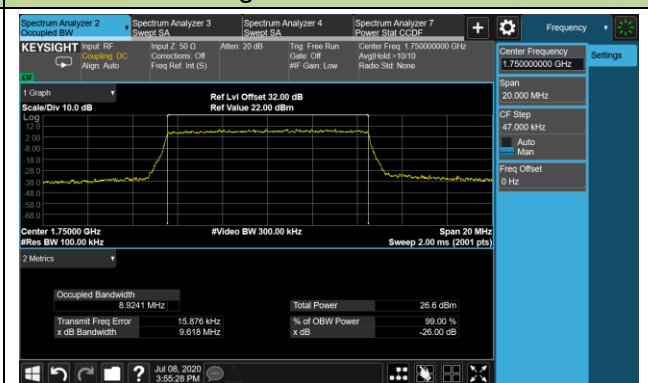
### Low CH. / 10MHz



### Mid CH. / 10MHz

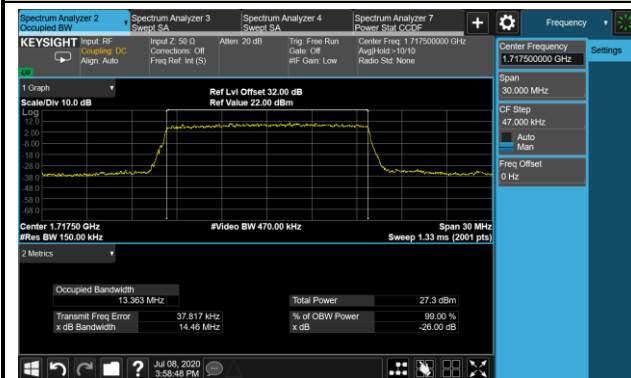


### High CH. / 10MHz

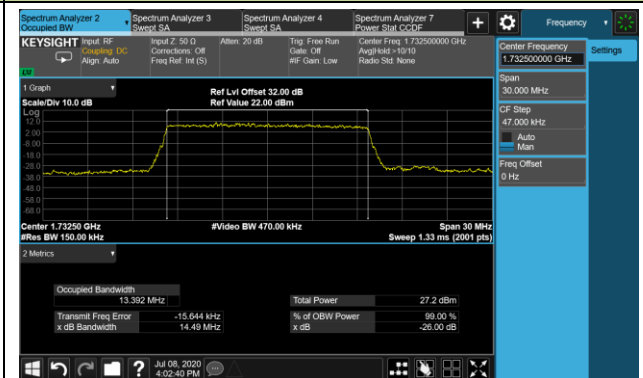


## LTE Band 4 99% & 26dB Occupied Bandwidth

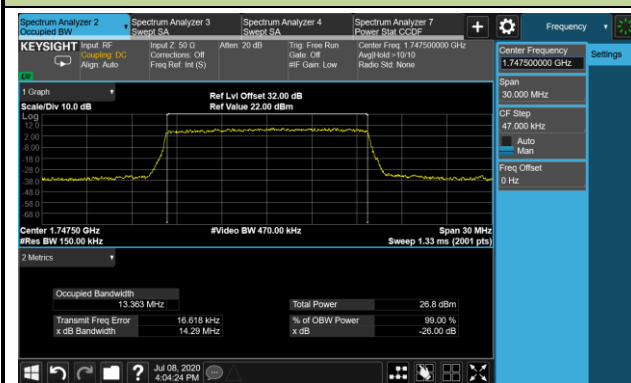
### Low CH. / 15MHz



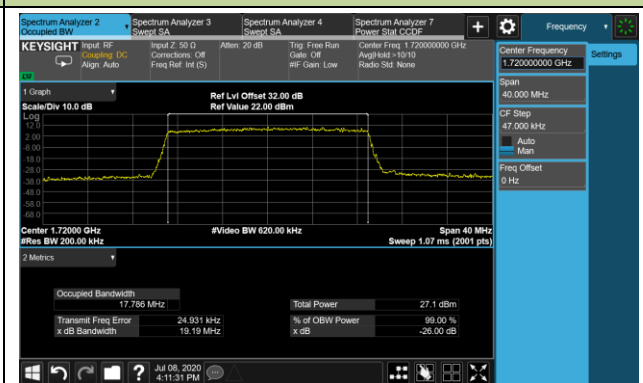
### Mid CH. / 15MHz



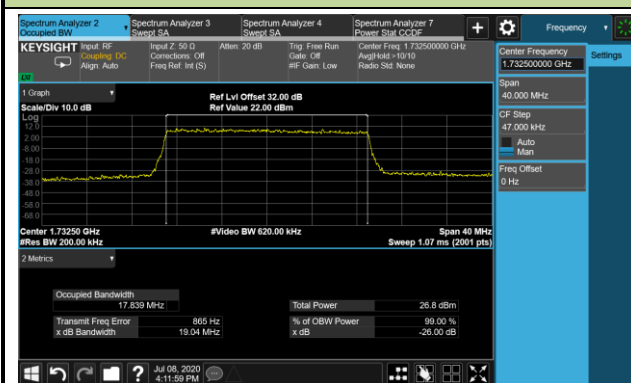
### High CH. / 15MHz



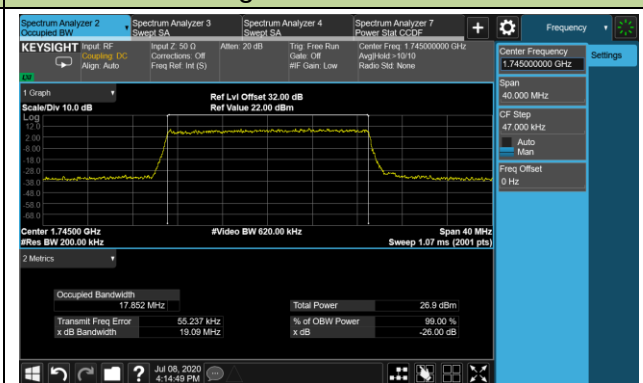
### Low CH. / 20MHz



### Mid CH. / 20MHz



### High CH. / 20MHz

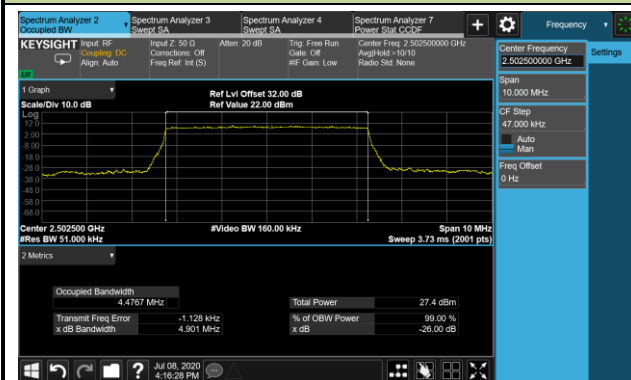


|               |           |           |            |
|---------------|-----------|-----------|------------|
| Product       | Tablet    | Test Site | SR5        |
| Test Engineer | Candy Luo | Test Date | 2020/07/08 |
| Test Band     | Band 7    |           |            |

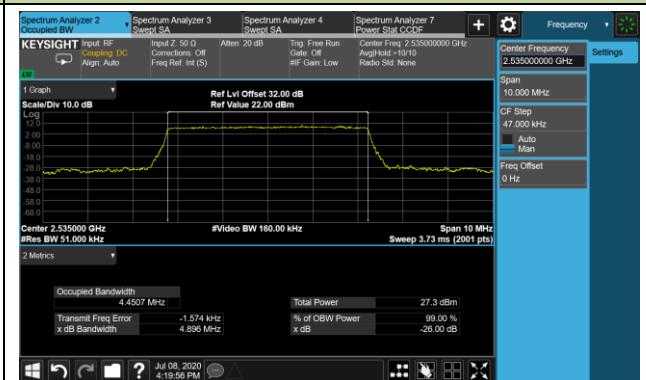
| Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) |
|--------------------|--------------------|------------------------|-------------------------|
| Lowest Channel     |                    |                        |                         |
| 2502.5             | 5                  | 4.48                   | 4.90                    |
| 2505               | 10                 | 8.94                   | 9.78                    |
| 2507.5             | 15                 | 13.38                  | 14.49                   |
| 2510               | 20                 | 17.80                  | 18.99                   |
| Middle Channel     |                    |                        |                         |
| 2535               | 5                  | 4.45                   | 4.90                    |
| 2535               | 10                 | 8.93                   | 9.81                    |
| 2535               | 15                 | 13.41                  | 14.41                   |
| 2535               | 20                 | 17.82                  | 19.13                   |
| High Channel       |                    |                        |                         |
| 2567.5             | 5                  | 4.48                   | 4.94                    |
| 2565               | 10                 | 8.94                   | 9.69                    |
| 2562.5             | 15                 | 13.39                  | 14.51                   |
| 2560               | 20                 | 17.87                  | 19.33                   |

## LTE Band 7 99% & 26dB Occupied Bandwidth

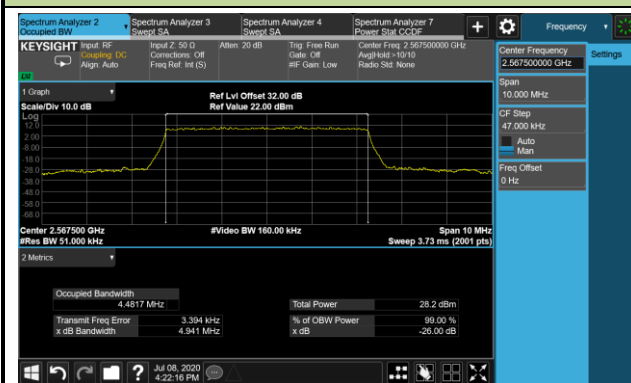
### Low CH. / 5MHz



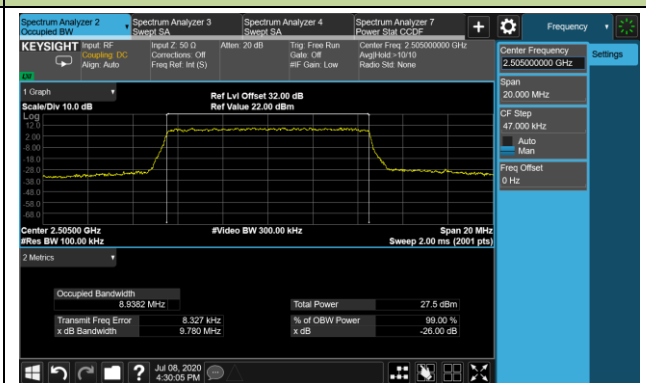
### Mid CH. / 5MHz



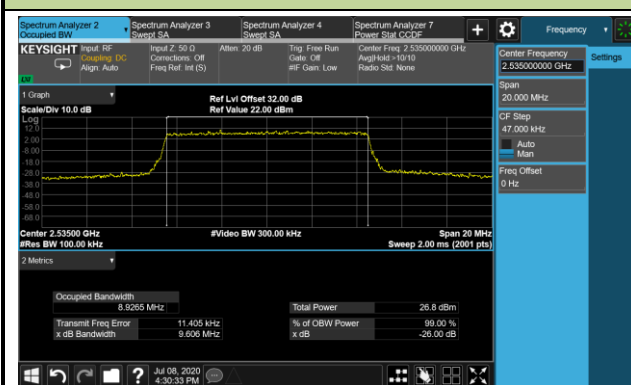
### High CH. / 5MHz



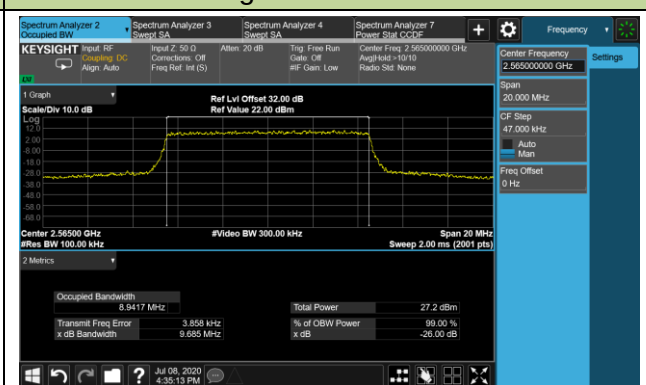
### Low CH. / 10MHz



### Mid CH. / 10MHz

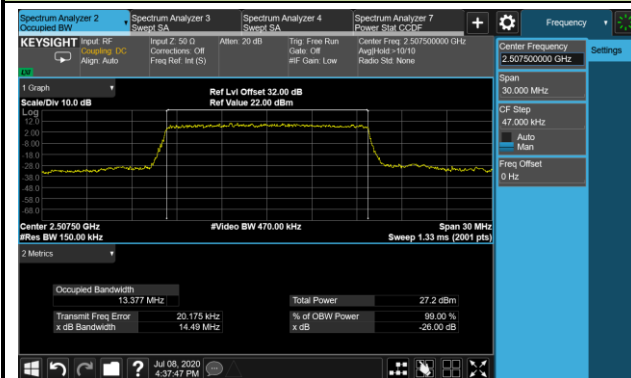


### High CH. / 10MHz

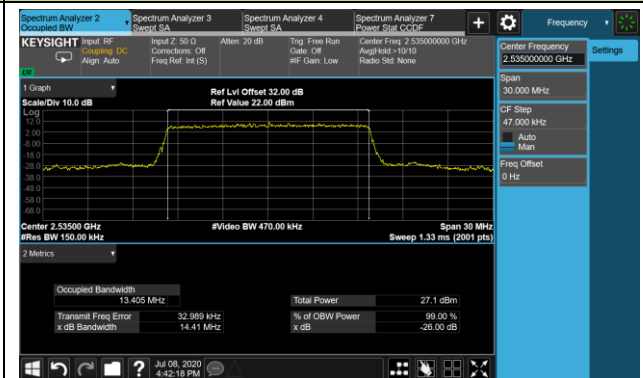


## LTE Band 7 99% & 26dB Occupied Bandwidth

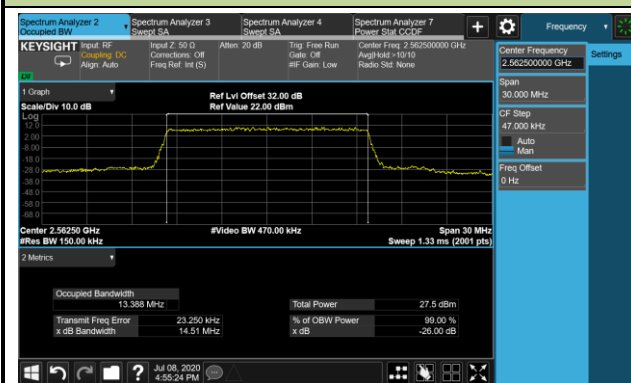
### Low CH. / 15MHz



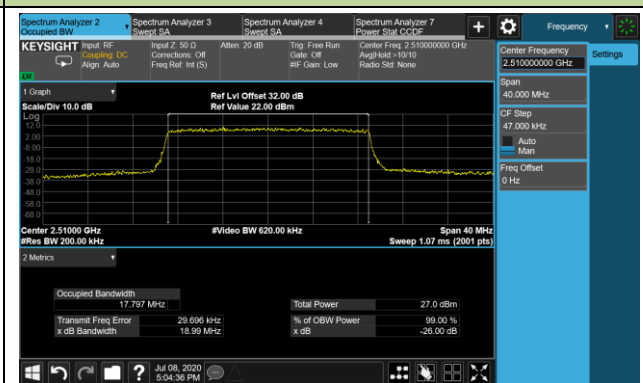
### Mid CH. / 15MHz



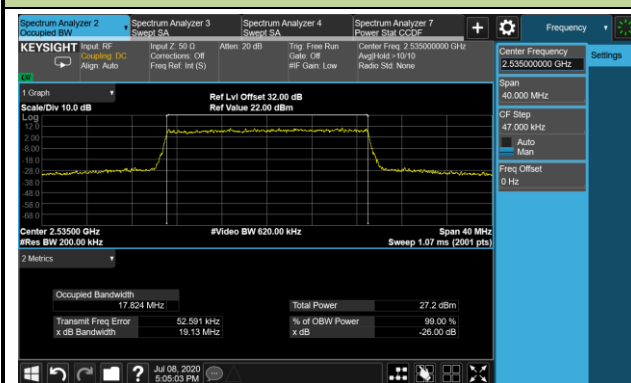
### High CH. / 15MHz



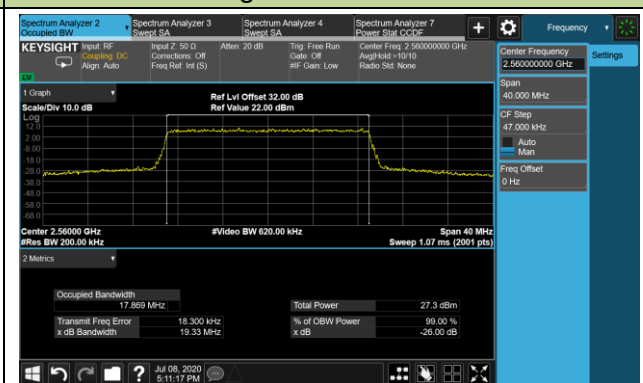
### Low CH. / 20MHz



### Mid CH. / 20MHz



### High CH. / 20MHz

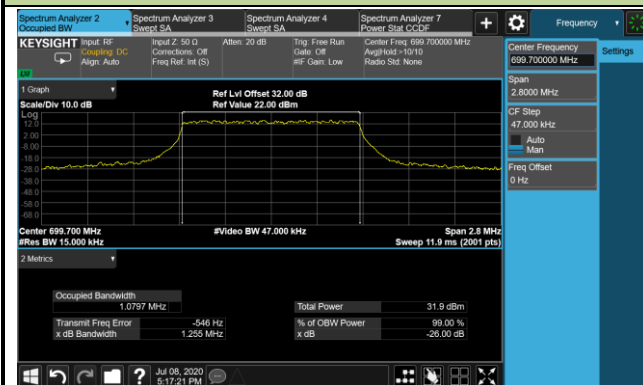


|               |           |           |            |
|---------------|-----------|-----------|------------|
| Product       | Tablet    | Test Site | SR5        |
| Test Engineer | Candy Luo | Test Date | 2020/07/08 |
| Test Band     | Band 12   |           |            |

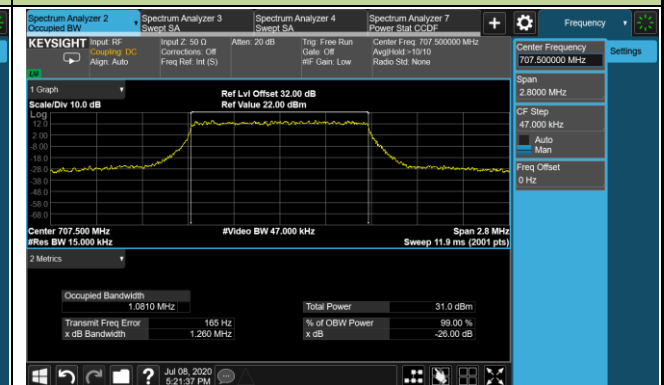
| Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) |
|--------------------|--------------------|------------------------|-------------------------|
| Lowest Channel     |                    |                        |                         |
| 699.7              | 1.4                | 1.08                   | 1.26                    |
| 700.5              | 3                  | 2.69                   | 2.94                    |
| 701.5              | 5                  | 4.46                   | 4.89                    |
| 704.0              | 10                 | 8.95                   | 9.75                    |
| Middle Channel     |                    |                        |                         |
| 707.5              | 1.4                | 1.08                   | 1.26                    |
| 707.5              | 3                  | 2.68                   | 2.90                    |
| 707.5              | 5                  | 4.48                   | 4.93                    |
| 707.5              | 10                 | 8.93                   | 9.59                    |
| High Channel       |                    |                        |                         |
| 715.3              | 1.4                | 1.08                   | 1.26                    |
| 714.5              | 3                  | 2.69                   | 2.92                    |
| 713.5              | 5                  | 4.48                   | 4.89                    |
| 711.0              | 10                 | 8.93                   | 9.62                    |

## LTE Band 12 99% & 26dB Occupied Bandwidth

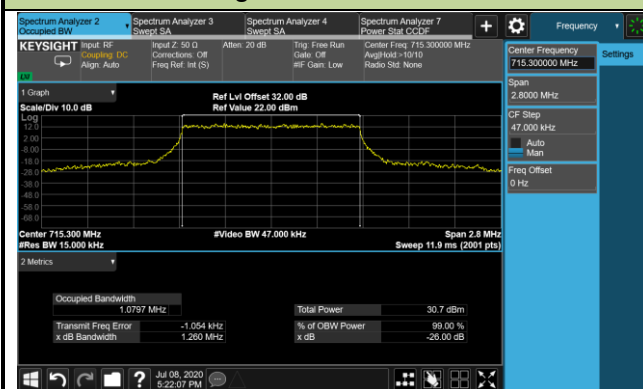
### Low CH. / 1.4MHz



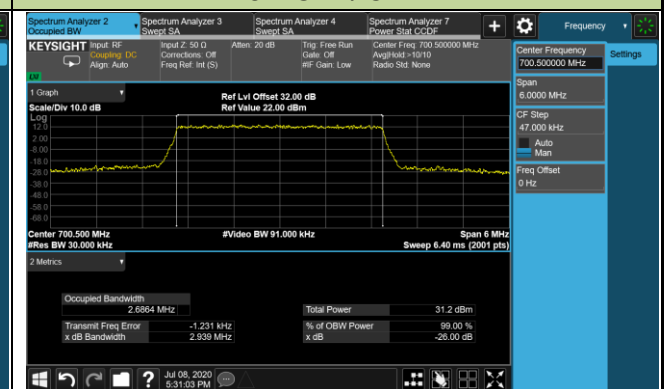
### Mid CH. / 1.4MHz



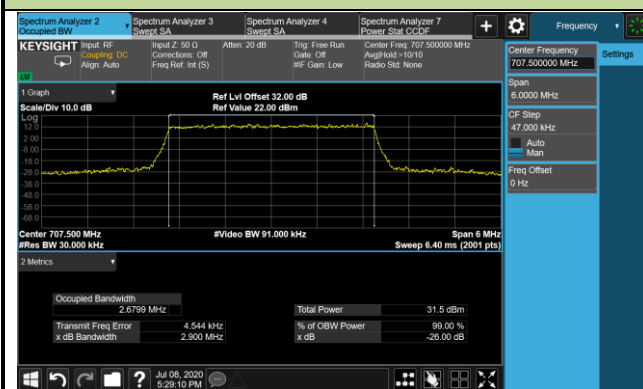
### High CH. / 1.4MHz



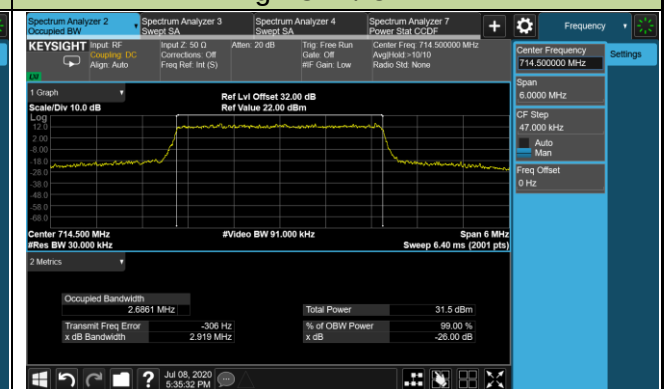
### Low CH. / 3MHz



### Mid CH. / 3MHz

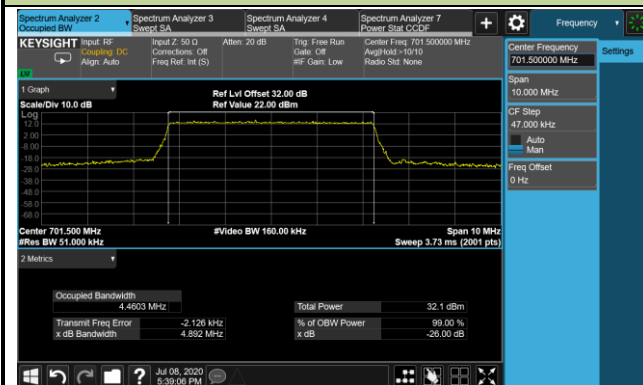


### High CH. / 3MHz

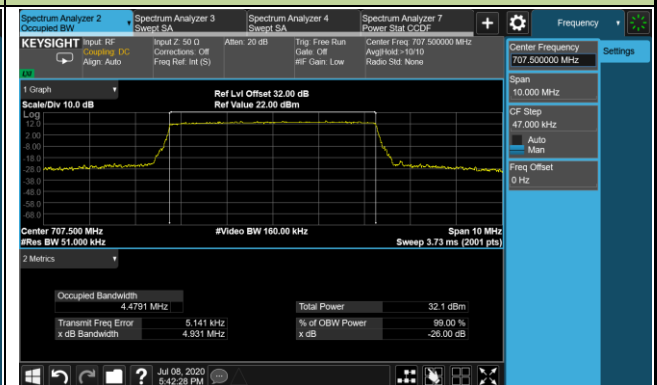


## LTE Band 12 99% & 26dB Occupied Bandwidth

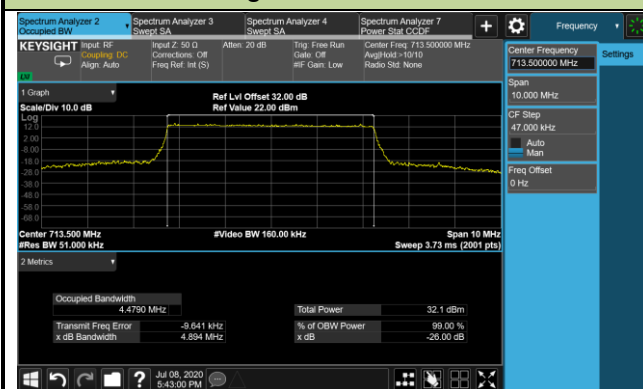
### Low CH. / 5MHz



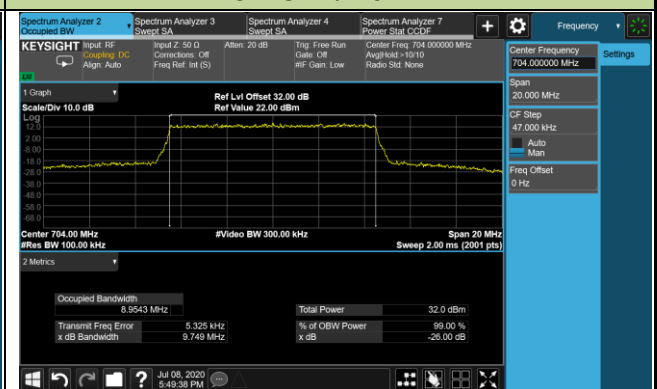
### Mid CH. / 5MHz



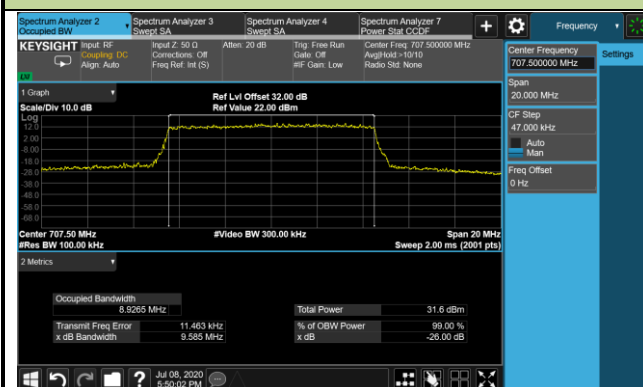
### High CH. / 5MHz



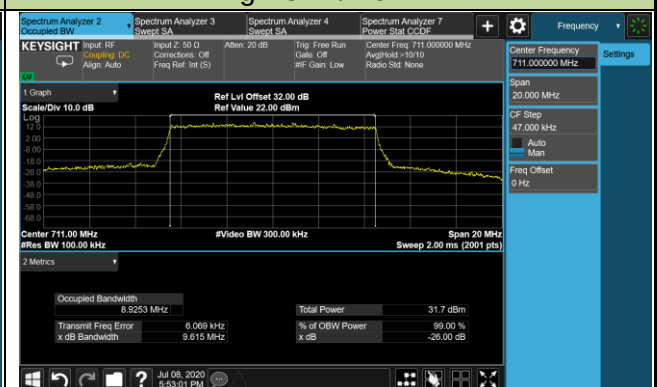
### Low CH. / 10MHz



### Mid CH. / 10MHz



### High CH. / 10MHz



|               |           |           |            |
|---------------|-----------|-----------|------------|
| Product       | Tablet    | Test Site | SR5        |
| Test Engineer | Candy Luo | Test Date | 2020/07/09 |
| Test Band     | Band 13   |           |            |

| Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) |
|--------------------|--------------------|------------------------|-------------------------|
| Lowest Channel     |                    |                        |                         |
| 779.5              | 5                  | 4.47                   | 4.93                    |
| 782                | 10                 | 8.92                   | 9.69                    |
| Middle Channel     |                    |                        |                         |
| 782                | 5                  | 4.45                   | 4.91                    |
| 782                | 10                 | 8.92                   | 9.69                    |
| High Channel       |                    |                        |                         |
| 784.5              | 5                  | 4.48                   | 4.86                    |
| 782                | 10                 | 8.92                   | 9.66                    |