



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

# TEST REPORT

FCC Part 22 Subpart H / Part 24 Subpart E/ Part 27

Report Reference No.....: CTA26040100302

FCC ID.....: 2A3DR-AGMP3

Compiled by

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Date of issue.....: Jun. 10, 2026

Testing Laboratory Name .....: Shenzhen CTA Testing Technology Co., Ltd.

Address .....: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name .....: AGM MOBILE LIMITED

Address .....: ROOM 1L, 7/F, LANE UP, 4 KIN FAT LANE, TUEN MUN HK China

Test specification .....

Standard .....: FCC CFR Title 47 Part 2, Part 22H, Part 24E and Part 27  
ANSI/TIA-603-E-2016  
KDB 971168 D01

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Test item description.....: 4G smart PAD Tablet

Trade Mark .....: AGM

Manufacturer .....: AGM MOBILE LIMITED

Model/Type reference.....: AGM\_P3\_COMPACT

Listed Models .....: AGM\_P3, AGM\_P3\_PRO

Ratings .....: Input: 5V === 3A 15.0W or 9V === 2.22A 19.98W or 12V === 1.67A 20.0W Max  
Battery: 3.85V 7200mAh

Modulation .....: QPSK

Frequency.....: UMTS Band II, UMTS Band IV, UMTS Band V

Result.....: PASS

# TEST REPORT

Equipment under Test : 4G smart PAD Tablet

Model /Type : AGM\_P3\_COMPACT

Listed Models : AGM\_P3, AGM\_P3\_PRO

Model Difference : The PCB board, circuit, structure and internal of these models are the same, only model number and colour are different for these model. So the tests were performed on model AGM\_P3\_COMPACT and the test results for the main test model can cover the listed models.

**Applicant** : **AGM MOBILE LIMITED**

Address : ROOM 1L, 7/F, LANE UP, 4 KIN FAT LANE, TUEN MUN HK China

**Manufacturer** : **AGM MOBILE LIMITED**

Address : ROOM 1L, 7/F, LANE UP, 4 KIN FAT LANE, TUEN MUN HK China

**Factory** : **GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD.**

Address : AGM TECHNOLOGY PARK, NO.187 LIANFA ROAD, TONGQIAO TOWN, ZHONGKAI HIGH-TECH DISTRICT, HUIZHOU CITY, P.R.CHINA

| Test result | Pass * |
|-------------|--------|
|-------------|--------|

\* In the configuration tested, the EUT complied with the standards specified page 4.

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.

## Contents

|     |                                                                  |    |
|-----|------------------------------------------------------------------|----|
| 1   | SUMMARY .....                                                    | 4  |
| 1.1 | TEST STANDARDS .....                                             | 4  |
| 1.2 | Test Description.....                                            | 4  |
| 1.3 | Address of the test laboratory .....                             | 4  |
| 1.4 | Test Facility .....                                              | 5  |
| 1.5 | Statement of the measurement uncertainty .....                   | 5  |
| 2   | GENERAL INFORMATION .....                                        | 6  |
| 2.1 | Environmental conditions .....                                   | 6  |
| 2.2 | General Description of EUT .....                                 | 6  |
| 2.3 | Description of Test Modes and Test Frequency .....               | 7  |
| 2.4 | Equipments Used during the Test .....                            | 8  |
| 2.5 | Related Submittal(s) / Grant (s) .....                           | 9  |
| 2.6 | Modifications .....                                              | 9  |
| 3   | TEST CONDITIONS AND RESULTS .....                                | 10 |
| 3.1 | Output Power .....                                               | 10 |
| 3.2 | Occupied Bandwidth .....                                         | 14 |
| 3.3 | Band Edge compliance .....                                       | 17 |
| 3.4 | Spurious Emission .....                                          | 19 |
| 3.5 | Peak-to-Average Ratio (PAR) .....                                | 29 |
| 3.6 | Frequency Stability under Temperature & Voltage Variations ..... | 32 |
| 4   | Test Setup Photos of the EUT .....                               | 34 |
| 5   | External and Internal Photos of the EUT .....                    | 35 |

# 1 SUMMARY

## 1.1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 2:](#) FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[FCC Part 22 Subpart H:](#) PRIVATE LAND MOBILE RADIO SERVICES.

[FCC Part 24 Subpart E:](#) PUBLIC MOBILE SERVICES

[FCC Part 27:](#) MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[ANSI/TIA-603-E-2016:](#) Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[ANSI C63.10-2013](#) Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

[FCC KDB971168D01](#) Power Meas License Digital Systems

## 1.2 Test Description

| Test Item                              | Section in CFR 47                                                     | Result |
|----------------------------------------|-----------------------------------------------------------------------|--------|
| RF Output Power                        | Part 2.1046<br>Part 22.913 (a)(2)<br>Part 24.232 (c)<br>Part 27.50(d) | Pass   |
| Peak-to-Average Ratio                  | Part 24.232 (d)<br>Part 27.50(d)                                      | Pass   |
| 99% & -26 dB Occupied Bandwidth        | Part 2.1049<br>Part 22.917<br>Part 24.238                             | Pass   |
| Spurious Emissions at Antenna Terminal | Part 2.1051<br>Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53(h)    | Pass   |
| Field Strength of Spurious Radiation   | Part 2.1053<br>Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53(h)    | Pass   |
| Out of band emission, Band Edge        | Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53(h)                   | Pass   |
| Frequency stability                    | Part 2.1055<br>Part 22.355<br>Part 24.235<br>Part 27.54               | Pass   |

## 1.3 Address of the test laboratory

**Shenzhen CTA Testing Technology Co., Ltd.**

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

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.

## 1.4 Test Facility

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

**FCC-Registration No.: 517856 Designation Number: CN1318**

Shenzhen CTA Testing Technology Co., Ltd. Has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

**Industry Canada Registration Number. Is: 27890 CAB identifier: CN0127**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

**A2LA-Lab Cert. No.: 6534.01**

Shenzhen CTA Testing Technology Co., Ltd. Has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

## 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. 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.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

| Test                                     | Range       | Measurement Uncertainty | Notes |
|------------------------------------------|-------------|-------------------------|-------|
| Radiated Emission                        | 9KHz~30MHz  | 3.02 dB                 | (1)   |
| Radiated Emission                        | 30~1000MHz  | 4.06 dB                 | (1)   |
| Radiated Emission                        | 1~18GHz     | 5.14 dB                 | (1)   |
| Radiated Emission                        | 18-40GHz    | 5.38 dB                 | (1)   |
| Conducted Disturbance                    | 0.15~30MHz  | 2.14 dB                 | (1)   |
| Output Peak power                        | 30MHz~18GHz | 0.55 dB                 | (1)   |
| Power spectral density                   | /           | 0.57 dB                 | (1)   |
| Spectrum bandwidth                       | /           | 1.1%                    | (1)   |
| Radiated spurious emission (30MHz-1GHz)  | 30~1000MHz  | 4.10 dB                 | (1)   |
| Radiated spurious emission (1GHz-18GHz)  | 1~18GHz     | 4.32 dB                 | (1)   |
| Radiated spurious emission (18GHz-40GHz) | 18-40GHz    | 5.54 dB                 | (1)   |
| Time                                     | /           | ±2%                     | (1)   |

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

## 2 GENERAL INFORMATION

### 2.1 Environmental conditions

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Apr. 01, 2026 |
| Testing commenced on           | : | Apr. 01, 2026 |
| Testing concluded on           | : | Jun. 10, 2026 |

During the measurement the environmental conditions were within the listed ranges:

|                     |         |
|---------------------|---------|
| Normal Temperature: | 25°C    |
| Relative Humidity:  | 55 %    |
| Air Pressure:       | 101 kPa |

### 2.2 General Description of EUT

|                       |                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | 4G smart PAD Tablet                                                                                                                |
| Model/Type reference: | AGM_P3_COMPACT                                                                                                                     |
| Power supply:         | Input: 5V === 3A 15.0W or 9V === 2.22A 19.98W or 12V === 1.67A 20.0W Max<br>Battery: 3.85V 7200mAh                                 |
| Adapter information:  | Model: HJ-PD20W-US<br>Input: AC 100-240V 50/60Hz 0.8A<br>Output: 5V === 3A 15.0W or 9V === 2.22A 19.98W or 12V === 1.67A 20.0W Max |
| Hardware version:     | V1.0                                                                                                                               |
| Software version:     | V1.0                                                                                                                               |
| Testing sample ID :   | CTA260401003-1# (Engineer sample)<br>CTA260401003-2# (Normal sample)                                                               |
| <b>WCDMA</b>          |                                                                                                                                    |
| Operation Band:       | FDD Band II & Band IV & Band V                                                                                                     |
| Power Class:          | Power Class 3                                                                                                                      |
| Modulation Type:      | QPSK for WCDMA/HSUPA/HSDPA, 16QAM for HSPA+                                                                                        |
| Release Version:      | R8                                                                                                                                 |
| Antenna type:         | FPC Antenna                                                                                                                        |
| Antenna gain:         | FDD Band II: 2.71dBi<br>FDD Band IV: 2.46dBi<br>FDD Band V: -0.96dBi                                                               |

Note: For more details, refer to the user's manual of the EUT.

### 2.3 Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CUM200 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation : the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

#### Test Frequency:

| FDD Band II |                 | FDD Band IV |                 | FDD Band V |                 |
|-------------|-----------------|-------------|-----------------|------------|-----------------|
| Channel     | Frequency (MHz) | Channel     | Frequency (MHz) | Channel    | Frequency (MHz) |
| 9262        | 1852.4          | 1312        | 1712.4          | 4132       | 826.40          |
| 9400        | 1880.0          | 1413        | 1732.6          | 4182       | 836.40          |
| 9538        | 1907.6          | 1513        | 1752.6          | 4233       | 846.60          |

#### Test Modes:

The test mode(s) are selected according to relevant radio technology specifications.

| Test Mode | Test Modes Description        |
|-----------|-------------------------------|
| Mode 1    | WCDMA system, QPSK modulation |
| Mode 2    | HSDPA system, QPSK modulation |
| Mode 3    | HSUPA system, QPSK modulation |

Note:

1. As HSDPA and HSUPA with the same emission designator, test result recorded in this report at the worst case Mode 4 with RCM 12.2Kbps only after exploratory scan.

## 2.4 Equipments Used during the Test

| Item.                                  | Test Equipment                                              | Manufacturer     | Model No.             | Equipment No. | Calibration Date | Calibration Due Date |
|----------------------------------------|-------------------------------------------------------------|------------------|-----------------------|---------------|------------------|----------------------|
| <b>RF Radiation Test Equipment</b>     |                                                             |                  |                       |               |                  |                      |
| <input checked="" type="checkbox"/> 1  | EMI Test Receiver                                           | R&S              | ESCI                  | CTA-306       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 2  | Spectrum analyzer                                           | R&S              | FSV40-N               | CTA-344       | 2025/05/17       | 2026/05/16           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 3  | Ultra-Broadband Antenna                                     | Schwarzbeck      | VULB9163              | CTA-310       | 2023/10/17       | 2026/10/16           |
| <input checked="" type="checkbox"/> 4  | Horn Antenna                                                | Schwarzbeck      | BBHA 9120D            | CTA-309       | 2023/10/13       | 2026/10/12           |
| <input checked="" type="checkbox"/> 5  | Loop Antenna                                                | Zhinan           | ZN30900C              | CTA-311       | 2023/10/17       | 2026/10/16           |
| <input checked="" type="checkbox"/> 6  | Horn Antenna                                                | Schwarzbeck      | BBHA 9170             | CTA-346       | 2025/05/18       | 2028/05/17           |
| <input checked="" type="checkbox"/> 7  | Amplifier                                                   | Schwarzbeck      | BBV9745               | CTA-312       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 8  | Amplifier                                                   | Tonscend         | TAP-011840            | CTA-313       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 9  | Amplifier                                                   | SKET             | LNPA 1840G-50         | CTA-345       | 2025/05/17       | 2026/05/16           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 10 | 6dB attenuator                                              | Shanghaihuaxiang | GZL-TS5-6-6           | CTA-347       | 2025/05/17       | 2026/05/16           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 11 | RF cable                                                    | SKET             | RF Cable (9kHz-1GHz)  | CTA-360       | 2025/09/25       | 2026/09/24           |
| <input checked="" type="checkbox"/> 12 | RF cable                                                    | SKET             | RF Cable (1GHz-18GHz) | CTA-361       | 2025/09/25       | 2026/09/24           |
| <input checked="" type="checkbox"/> 13 | Coaxial cable (1GHz-40GHz)                                  | SKET             | RE-04-D               | CTA-348       | 2025/05/20       | 2026/05/19           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 14 | Coaxial cable (1GHz-40GHz)                                  | SKET             | RE-04-M               | CTA-349       | 2025/05/20       | 2026/05/19           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 15 | Coaxial cable (1GHz-40GHz)                                  | SKET             | RE-04-L               | CTA-350       | 2025/05/20       | 2026/05/19           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 16 | Temperature and humidity meter                              | Chigo            | ZG-7020               | CTA-328       | 2025/07/31       | 2026/07/30           |
| <input type="checkbox"/> 17            | 2.4G Filter                                                 | HX Microwave     | HXLBQ-DZA61           | CTA-365       | 2025/07/31       | 2026/07/30           |
| <input type="checkbox"/> 18            | 5G Filter                                                   | CONCEPT          | CNF05150M058 50Q16A   | CTA-366       | 2025/07/31       | 2026/07/30           |
| <input checked="" type="checkbox"/> 19 | High-Pass Filter                                            | XingBo           | XBLBQ-GTA18           | CTA-402       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 20 | High-Pass Filter                                            | XingBo           | XBLBQ-GTA27           | CTA-403       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 21 | High-Pass Filter                                            | XingBo           | XBLBQ-GTA10           | CTA-364       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 22 | EMI Test Software                                           | Tonscend         | TS@JS32-RE            | 5.0.0.2       | N/A              | N/A                  |
| <b>RF Conducted Test Equipment</b>     |                                                             |                  |                       |               |                  |                      |
| <input checked="" type="checkbox"/> 1  | Spectrum Analyzer                                           | Agilent          | N9020A                | CTA-342       | 2025/07/30       | 2026/07/29           |
| <input type="checkbox"/> 2             | Spectrum analyzer                                           | R&S              | FSV40-N               | CTA-344       | 2025/05/17       | 2026/05/16           |
|                                        |                                                             |                  |                       |               | 2026/05/16       | 2027/05/15           |
| <input checked="" type="checkbox"/> 3  | RF Coaxial Cable                                            | SKET             | RF Cable (9kHz-40GHz) | CTA-368       | 2025/07/30       | 2026/07/29           |
| <input checked="" type="checkbox"/> 4  | Temperature and humidity meter                              | ZG-7020          | Chigo                 | CTA-329       | 2025/07/31       | 2026/07/30           |
| <input checked="" type="checkbox"/> 5  | Programmable Constant Temperature And Humidity Test Chamber | DONGGUAN JINGYU  | HT-H-408              | CTA-053       | 2025/07/30       | 2026/07/29           |
| <input type="checkbox"/> 6             | Vector Signal generator                                     | Agilent          | N5182A                | CTA-305       | 2025/07/30       | 2026/07/29           |
| <input type="checkbox"/> 7             | Analog Signal Generator                                     | R&S              | E4421B                | CTA-304       | 2025/07/30       | 2026/07/29           |

|                                        |                                     |          |             |         |            |            |
|----------------------------------------|-------------------------------------|----------|-------------|---------|------------|------------|
| <input checked="" type="checkbox"/> 8  | WIDEBAND RADIO COMMUNICATION TESTER | R&S      | CMW500      | CTA-302 | 2025/07/30 | 2026/07/29 |
| <input checked="" type="checkbox"/> 9  | Automatic control unit              | Tonscend | JS0806-2    | CTA-351 | 2025/07/30 | 2026/07/29 |
| <input checked="" type="checkbox"/> 10 | RF Test Software                    | Tonscend | TS@JS1120-3 | 3.1.65  | N/A        | N/A        |
| <input checked="" type="checkbox"/> 11 | RF Test Software                    | Tonscend | TS@JS1120   | 3.1.46  | N/A        | N/A        |
| <input checked="" type="checkbox"/> 12 | RF Connection Cable                 | N/A      | N/A         | 1#      | Each time  | N/A        |

## 2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with of the FCC Part 22 and Part 24 and Part 27 Rules.

## 2.6 Modifications

No modifications were implemented to meet testing criteria.

### 3 TEST CONDITIONS AND RESULTS

#### 3.1 Output Power

##### LIMIT

WCDMA Band V: 7W

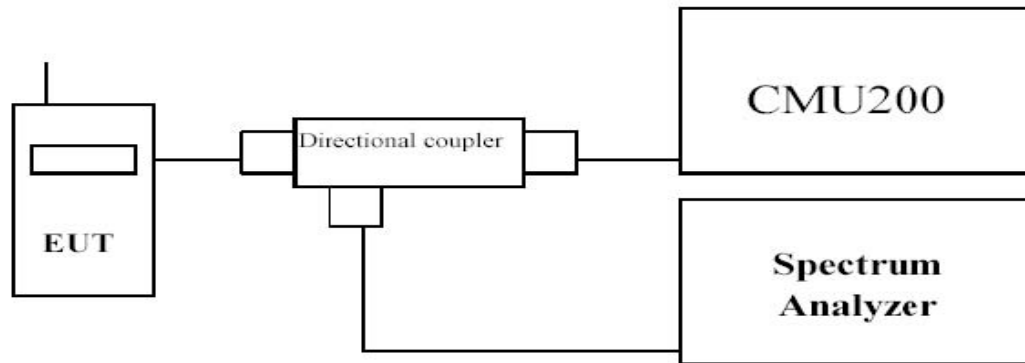
WCDMA Band II: 2W

WCDMA Band IV: 1W

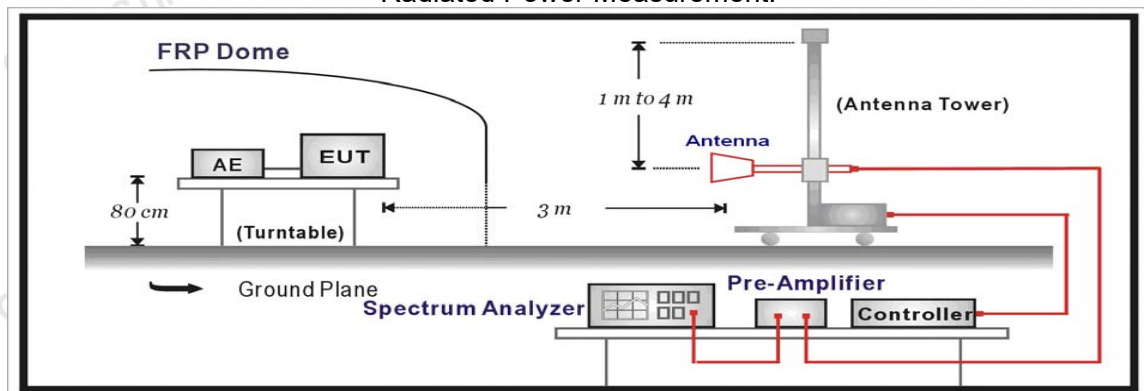
The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 Db.

##### TEST CONFIGURATION

###### Conducted Power Measurement



###### Radiated Power Measurement:



##### TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

###### Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Coupler.
- EUT Communicate with CMU200 then selects a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

###### Radiated Power Measurement:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- The output of the test antenna shall be connected to the measuring receiver.
- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.

- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i) The transmitter shall be replaced by a substitution antenna.
- j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k) The substitution antenna shall be connected to a calibrated signal generator.
- l) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.

**TEST RESULTS****Conducted Measurement:**

| Item  | Band         | FDD Band II result (dBm) |       |       |
|-------|--------------|--------------------------|-------|-------|
|       |              | Test Channel             |       |       |
|       | ARFCN        | 9262                     | 9400  | 9538  |
| RMC   | 12.2kbps RMC | 23.55                    | 23.57 | 23.57 |
| HSDPA | Sub – Test 1 | 23.60                    | 23.57 | 23.52 |
|       | Sub – Test 2 | 22.97                    | 22.93 | 22.92 |
|       | Sub – Test 3 | 22.80                    | 22.82 | 22.86 |
|       | Sub – Test 4 | 22.81                    | 22.77 | 22.70 |
| HSUPA | Sub – Test 1 | 22.71                    | 22.77 | 22.74 |
|       | Sub – Test 2 | 22.78                    | 22.74 | 22.85 |
|       | Sub – Test 3 | 22.86                    | 22.82 | 22.88 |
|       | Sub – Test 4 | 22.77                    | 22.74 | 22.80 |
|       | Sub – Test 5 | 22.88                    | 22.88 | 22.87 |

| Item  | Band         | FDD Band IV result (dBm) |       |       |
|-------|--------------|--------------------------|-------|-------|
|       |              | Test Channel             |       |       |
|       | ARFCN        | 1312                     | 1412  | 1513  |
| RMC   | 12.2kbps RMC | 23.54                    | 23.68 | 23.64 |
| HSDPA | Sub - Test 1 | 23.58                    | 23.58 | 23.59 |
|       | Sub - Test 2 | 22.95                    | 22.93 | 22.98 |
|       | Sub - Test 3 | 22.80                    | 22.83 | 22.80 |
|       | Sub - Test 4 | 22.70                    | 22.78 | 22.83 |
| HSUPA | Sub - Test 1 | 22.71                    | 22.73 | 22.83 |
|       | Sub - Test 2 | 22.86                    | 22.71 | 22.80 |
|       | Sub - Test 3 | 22.86                    | 22.87 | 22.83 |
|       | Sub - Test 4 | 22.71                    | 22.80 | 22.79 |
|       | Sub - Test 5 | 22.85                    | 22.87 | 22.83 |

| Item  | Band         | FDD Band V result (dBm) |       |       |
|-------|--------------|-------------------------|-------|-------|
|       |              | Test Channel            |       |       |
|       | ARFCN        | 4132                    | 4182  | 4233  |
| RMC   | 12.2kbps RMC | 23.60                   | 23.62 | 23.72 |
| HSDPA | Sub - Test 1 | 23.54                   | 23.54 | 23.41 |
|       | Sub - Test 2 | 22.94                   | 22.91 | 22.91 |
|       | Sub - Test 3 | 22.86                   | 22.86 | 22.87 |
|       | Sub - Test 4 | 22.75                   | 22.77 | 22.80 |
| HSUPA | Sub - Test 1 | 22.78                   | 22.72 | 22.76 |
|       | Sub - Test 2 | 22.87                   | 22.72 | 22.84 |
|       | Sub - Test 3 | 22.88                   | 22.89 | 22.84 |
|       | Sub - Test 4 | 22.72                   | 22.73 | 22.81 |
|       | Sub - Test 5 | 22.82                   | 22.81 | 22.88 |

**Radiated Measurement:**

Note: 1. The field strength of radiation emission was measured in the following position: EUT stand-up position (Zaxis), lie-down position (X, Y axis). The data show in this report only with the worst case setup. After exploratory measurement the worst case of Z axis was reported.

Note: 2. We test the H direction and V direction and V direction is worse.

**WCDMA BAND II**

| Channel | P <sub>Mea</sub><br>(dBm) | P <sub>cl</sub><br>(dB) | G <sub>a</sub><br>Antenna<br>Gain(dB) | P <sub>Ag</sub><br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|---------|---------------------------|-------------------------|---------------------------------------|-------------------------|---------------|----------------|----------------|--------------|
| 9262    | -16.11                    | 3.41                    | 10.24                                 | 33.6                    | 24.32         | 33.01          | -8.69          | V            |
| 9400    | -15.55                    | 3.49                    | 10.24                                 | 33.6                    | 24.80         | 33.01          | -8.21          | V            |
| 9538    | -15.97                    | 3.55                    | 10.23                                 | 33.6                    | 24.31         | 33.01          | -8.70          | V            |

**WCDMA BAND IV**

| Channel | P <sub>Mea</sub><br>(dBm) | P <sub>cl</sub><br>(dB) | G <sub>a</sub><br>Antenna<br>Gain(dB) | P <sub>Ag</sub><br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|---------|---------------------------|-------------------------|---------------------------------------|-------------------------|---------------|----------------|----------------|--------------|
| 1312    | -17.17                    | 3.15                    | 9.58                                  | 33.6                    | 22.86         | 30.00          | -7.14          | V            |
| 1413    | -17.26                    | 3.17                    | 9.62                                  | 33.6                    | 22.79         | 30.00          | -7.21          | V            |
| 1513    | -17.16                    | 3.26                    | 9.71                                  | 33.6                    | 22.89         | 30.00          | -7.11          | V            |

**WCDMA BAND V**

| Channel | P <sub>Mea</sub><br>(dBm) | P <sub>cl</sub><br>(dB) | G <sub>a</sub><br>Antenna<br>Gain(dB) | Correction<br>(dB) | P <sub>Ag</sub><br>(dB) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|---------|---------------------------|-------------------------|---------------------------------------|--------------------|-------------------------|--------------|----------------|----------------|--------------|
| 4132    | -16.99                    | 2.42                    | 8.45                                  | 36.82              | 2.15                    | 23.71        | 38.45          | -14.74         | V            |
| 4182    | -16.61                    | 2.46                    | 8.45                                  | 36.82              | 2.15                    | 24.05        | 38.45          | -14.40         | V            |
| 4233    | -16.93                    | 2.53                    | 8.36                                  | 36.82              | 2.15                    | 23.57        | 38.45          | -14.88         | V            |

**Remark:**

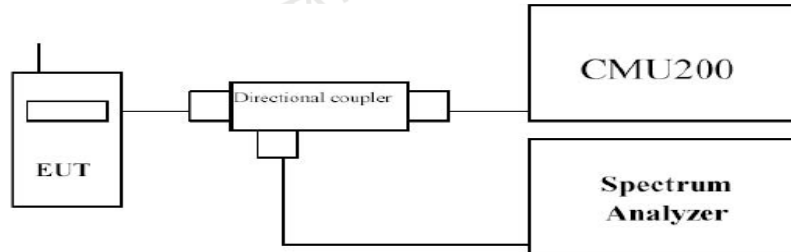
1.  $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$
2.  $ERP = EIRP - 2.15dBi$  as EIRP by subtracting the gain of the dipole.

### 3.2 Occupied Bandwidth

#### LIMIT

N/A

#### TEST CONFIGURATION



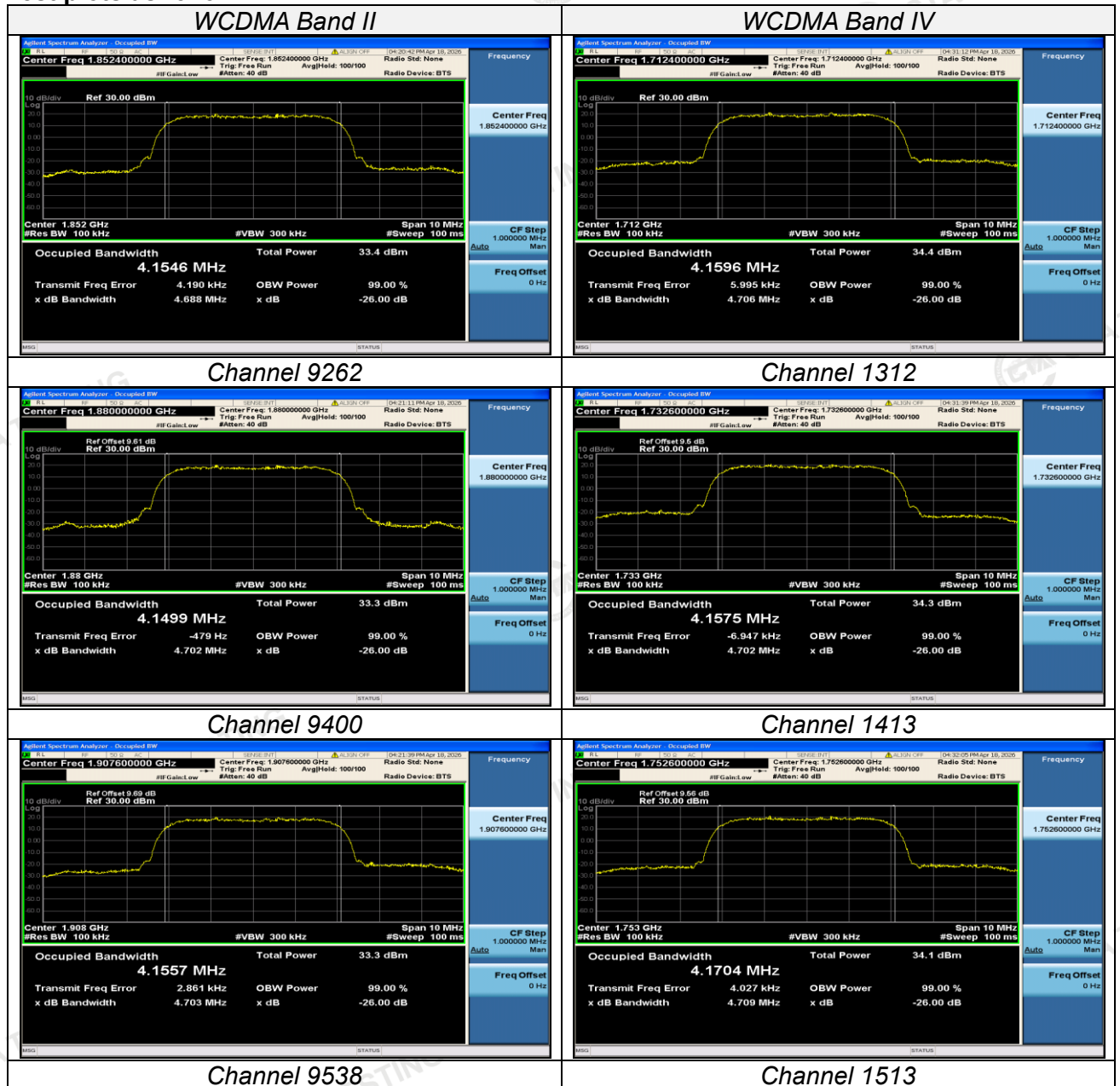
#### TEST PROCEDURE

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW,  $VBW \geq 3$  times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

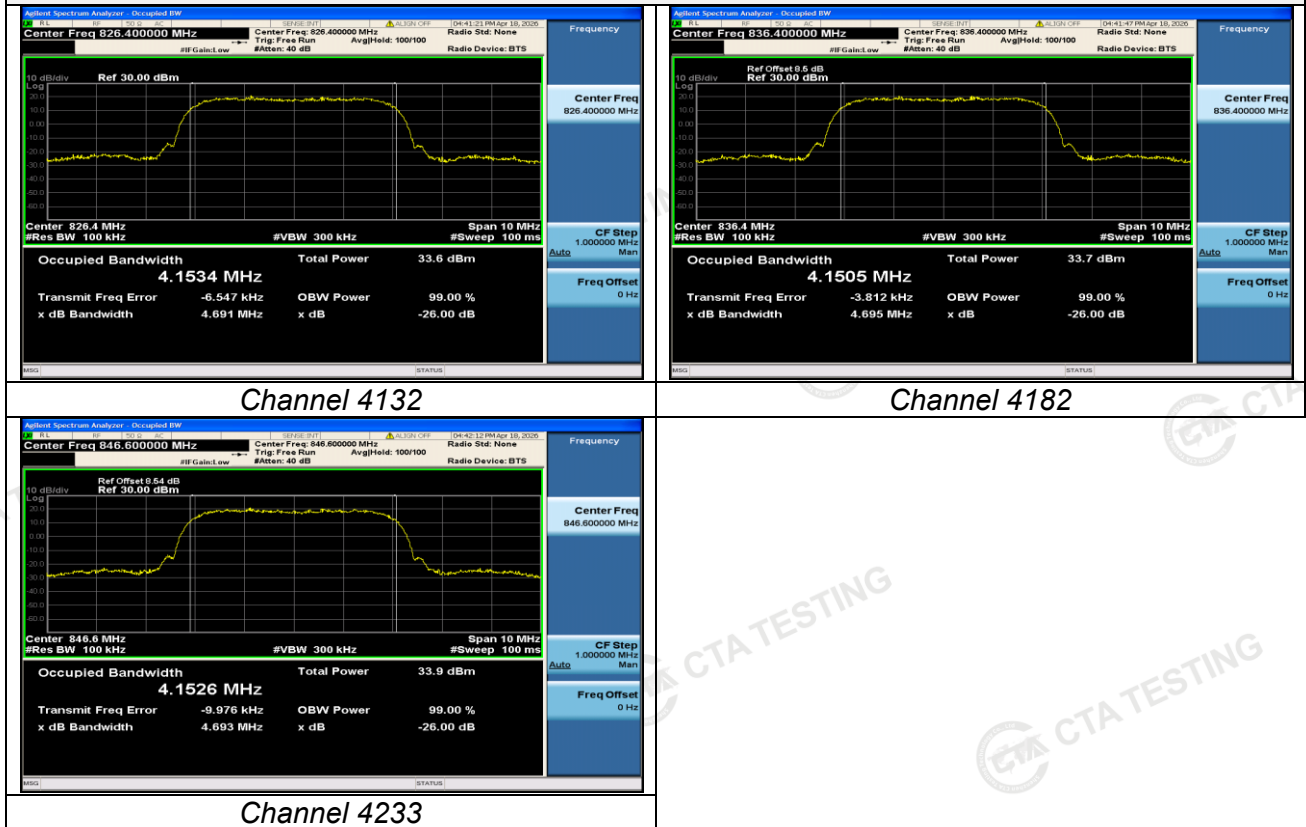
#### TEST RESULTS

| EUT Mode             | Channel | Frequency (MHz) | 99% Occupy bandwidth (MHz) | -26dB bandwidth (MHz) |
|----------------------|---------|-----------------|----------------------------|-----------------------|
| WCDMA Band II (QPSK) | 9262    | 1852.4          | 4.1546                     | 4.688                 |
|                      | 9400    | 1880.0          | 4.1499                     | 4.702                 |
|                      | 9538    | 1907.6          | 4.1557                     | 4.703                 |
| WCDMA Band VI (QPSK) | 1312    | 1712.4          | 4.1596                     | 4.706                 |
|                      | 1413    | 1732.6          | 4.1575                     | 4.702                 |
|                      | 1513    | 1752.6          | 4.1704                     | 4.709                 |
| WCDMA Band V (QPSK)  | 4132    | 826.4           | 4.1534                     | 4.691                 |
|                      | 4182    | 836.4           | 4.1505                     | 4.695                 |
|                      | 4233    | 846.6           | 4.1526                     | 4.693                 |

Test plots as follow:



## WCDMA Band V

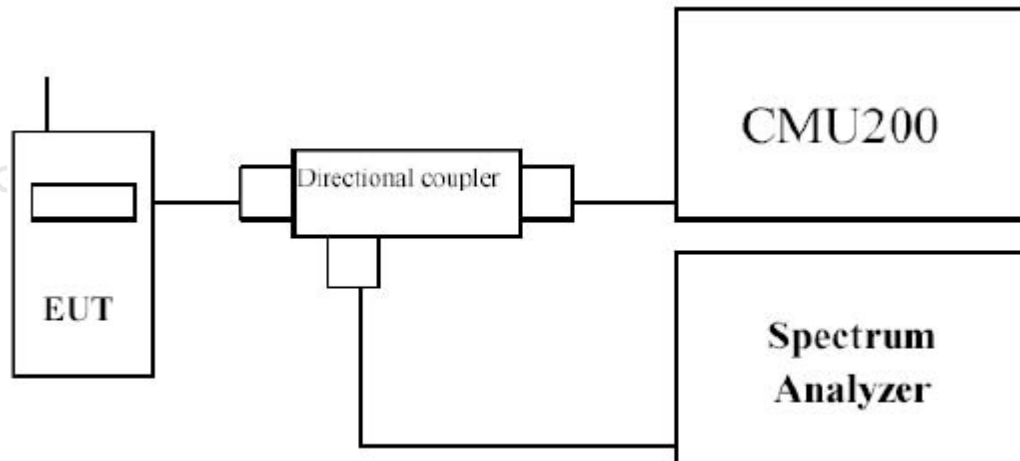


### 3.3 Band Edge compliance

#### LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10\log(P)$  dB.

#### TEST CONFIGURATION

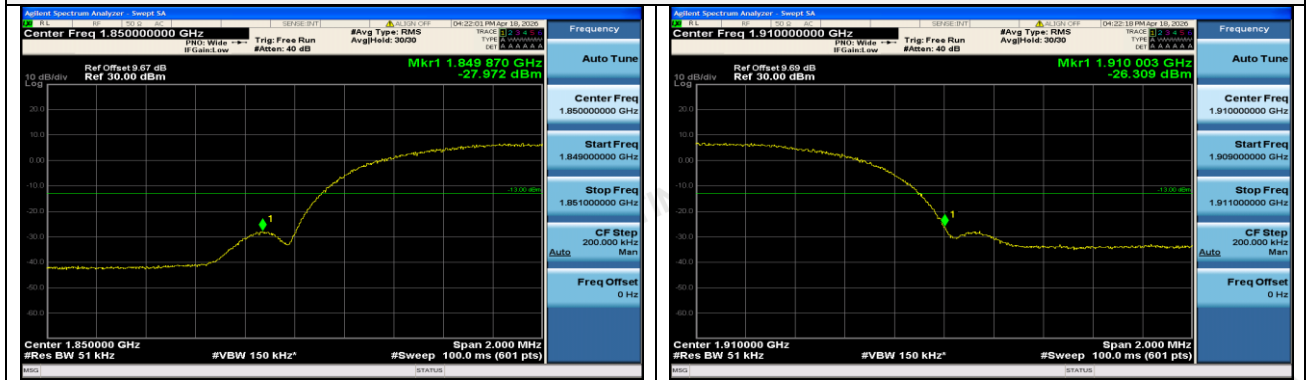


#### TEST PROCEDURE

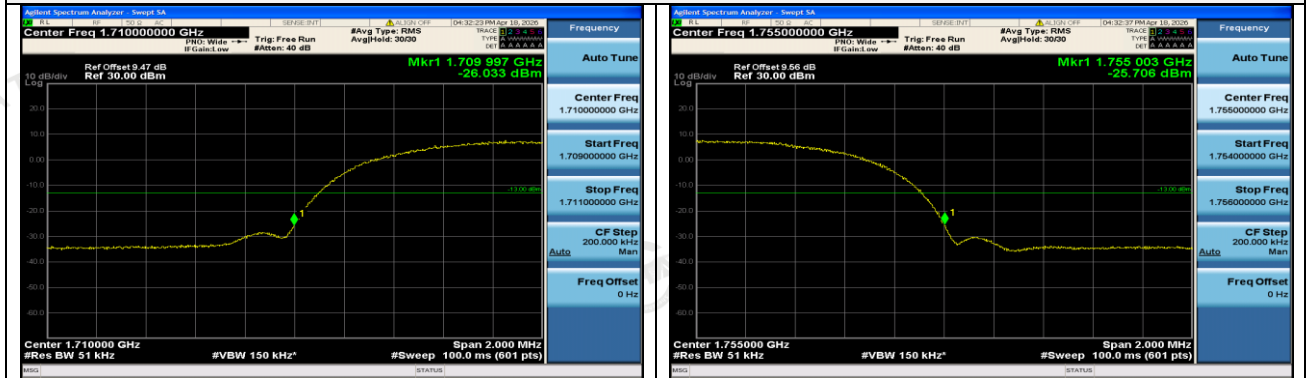
In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

#### TEST RESULTS

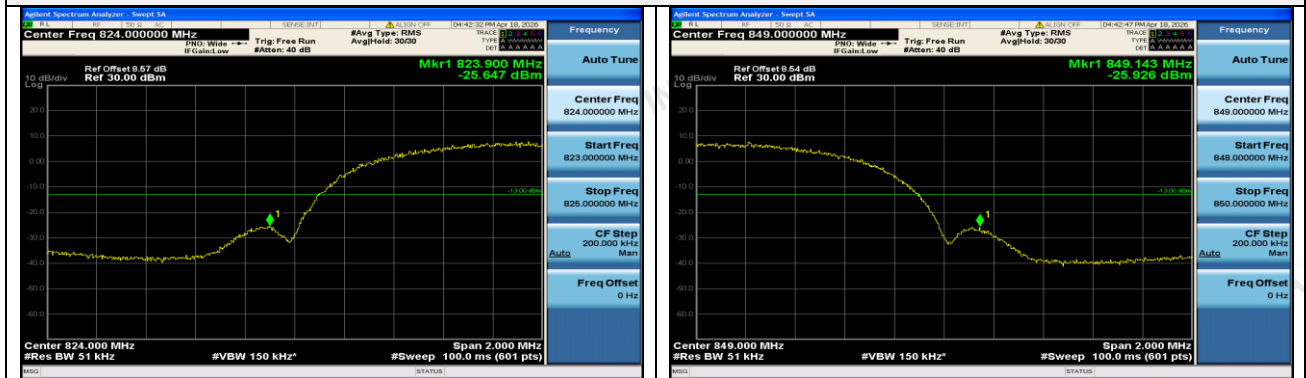
## WCDMA Band II



## WCDMA Band IV



## WCDMA Band V



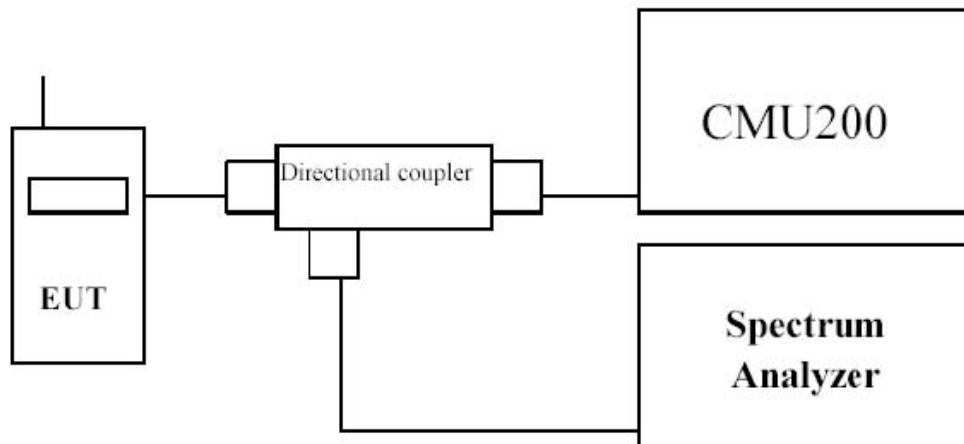
### 3.4 Spurious Emission

#### LIMIT

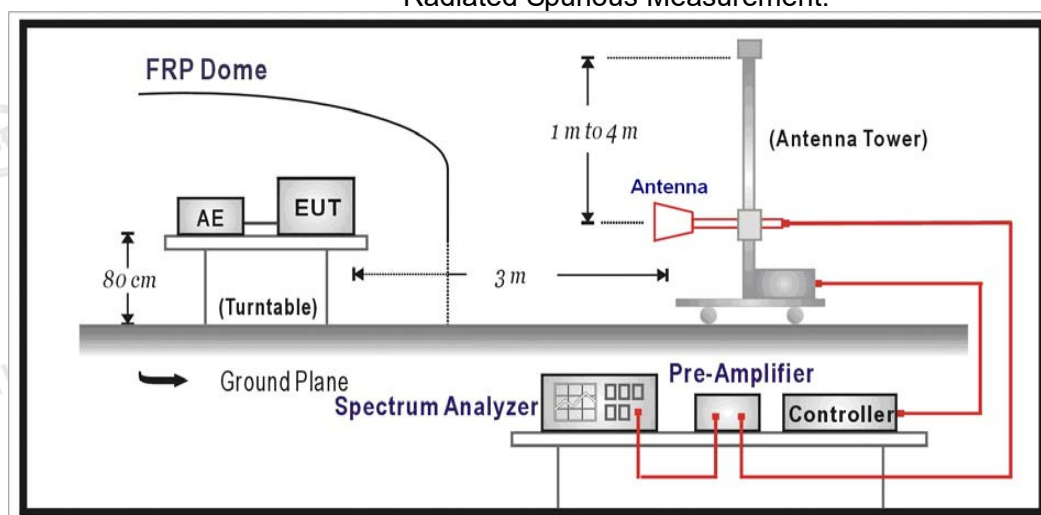
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10\log(P)$  dB.

#### TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



#### TEST PROCEDURE

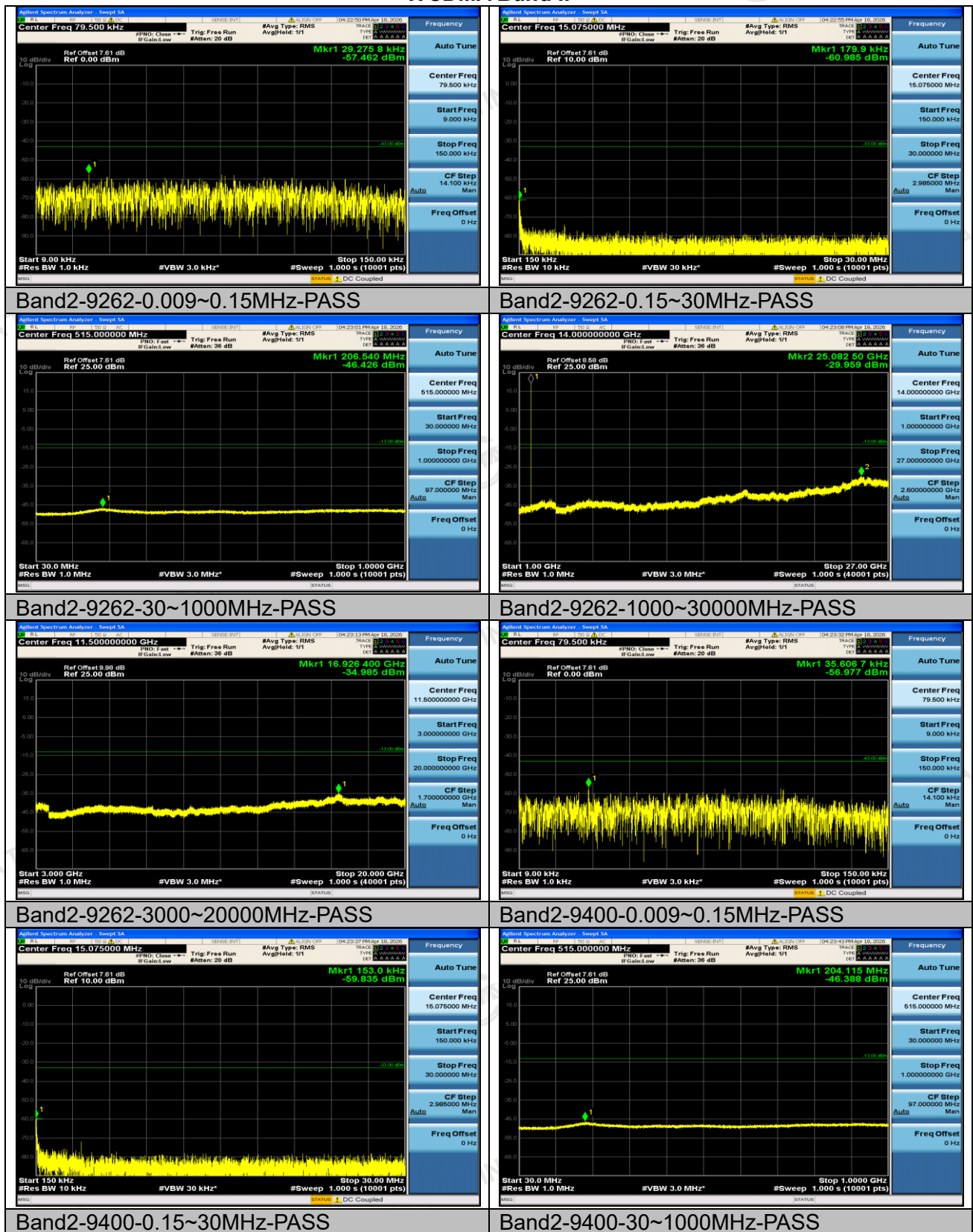
The EUT was setup according to EIA/TIA 603C

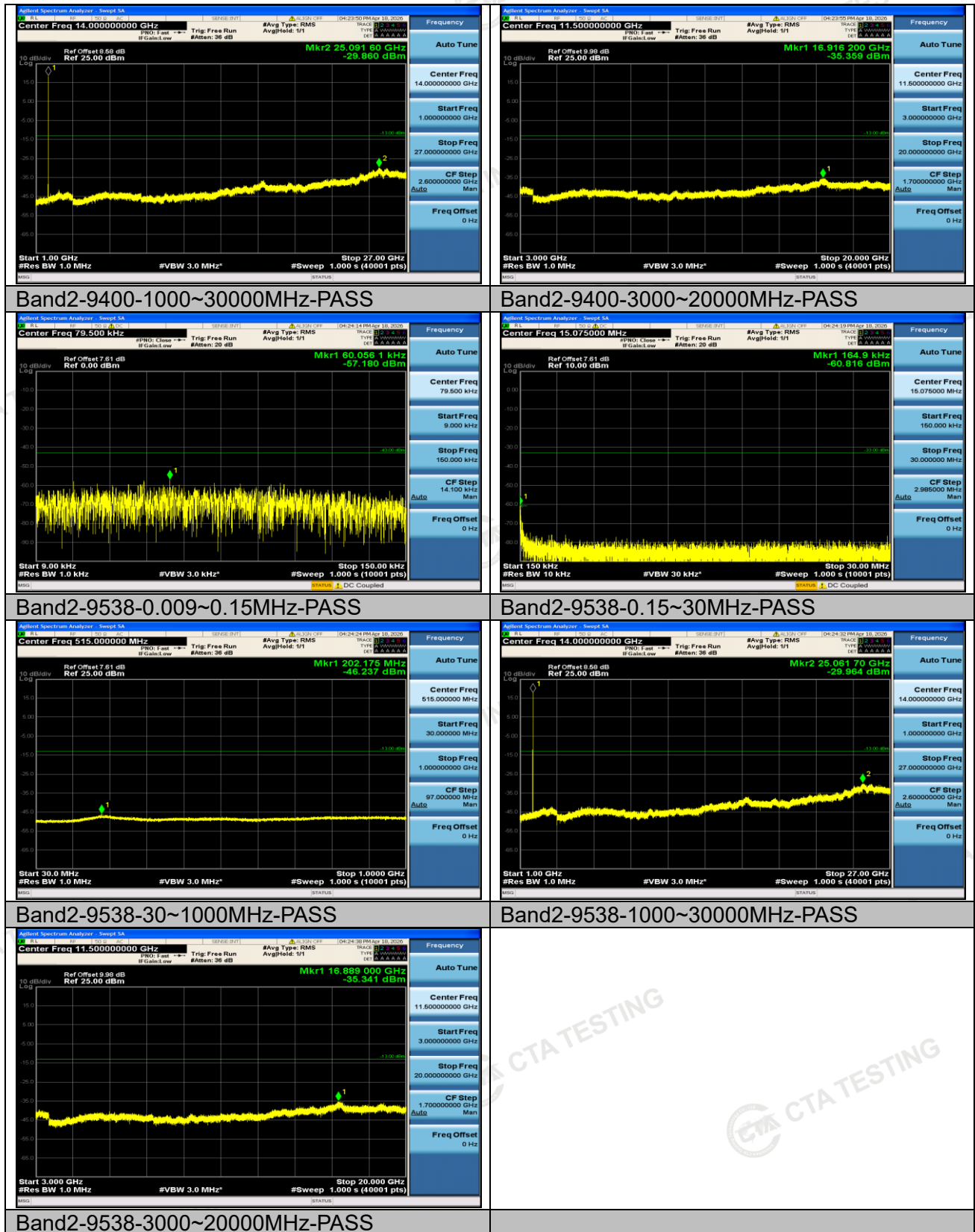
##### **Conducted Spurious Measurement:**

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Coupler.
- EUT Communicate with CMU200 then selects a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set at 1MHz for Part 22 and 1MHz for Part 24, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

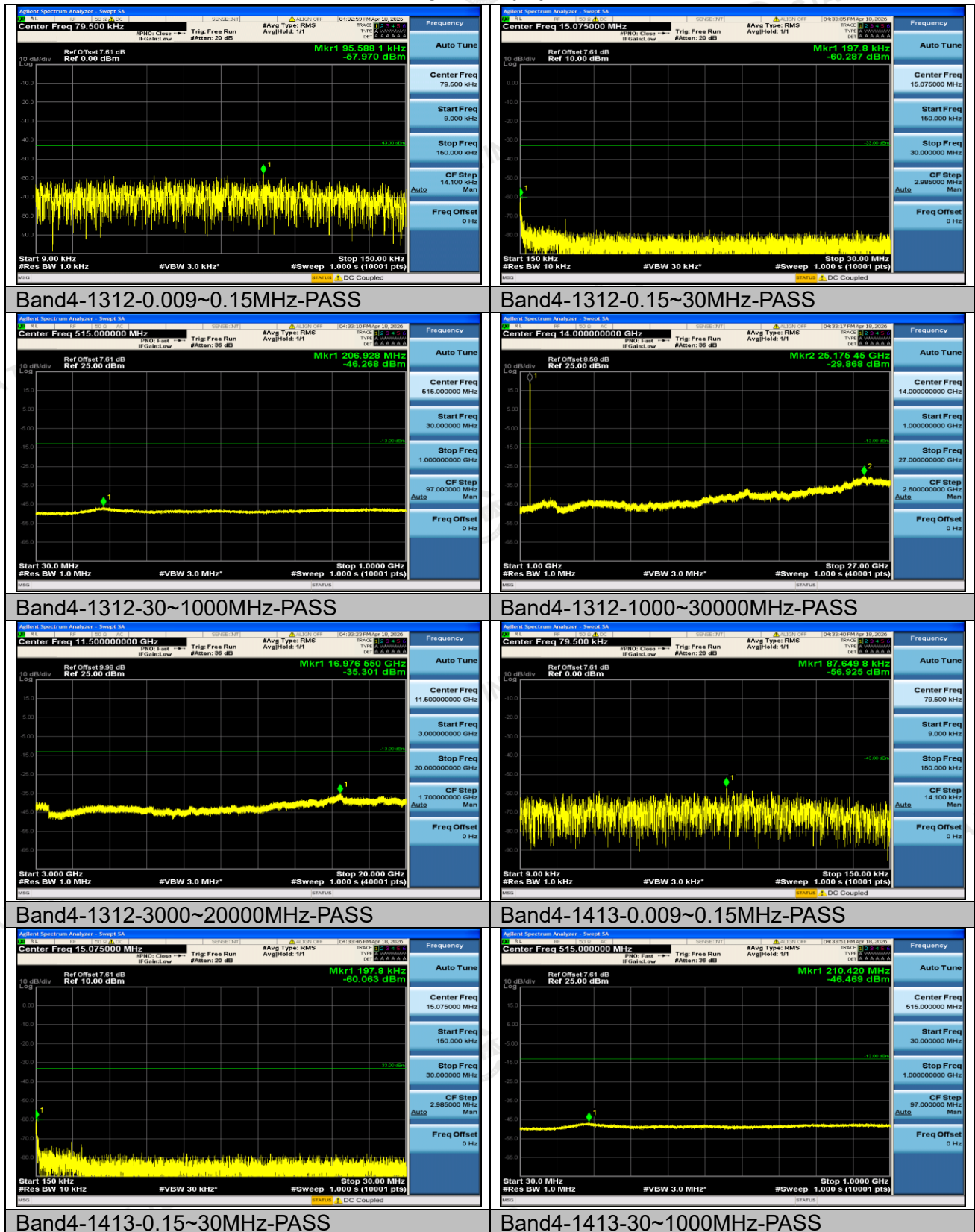
##### **Radiated Spurious Measurement:**

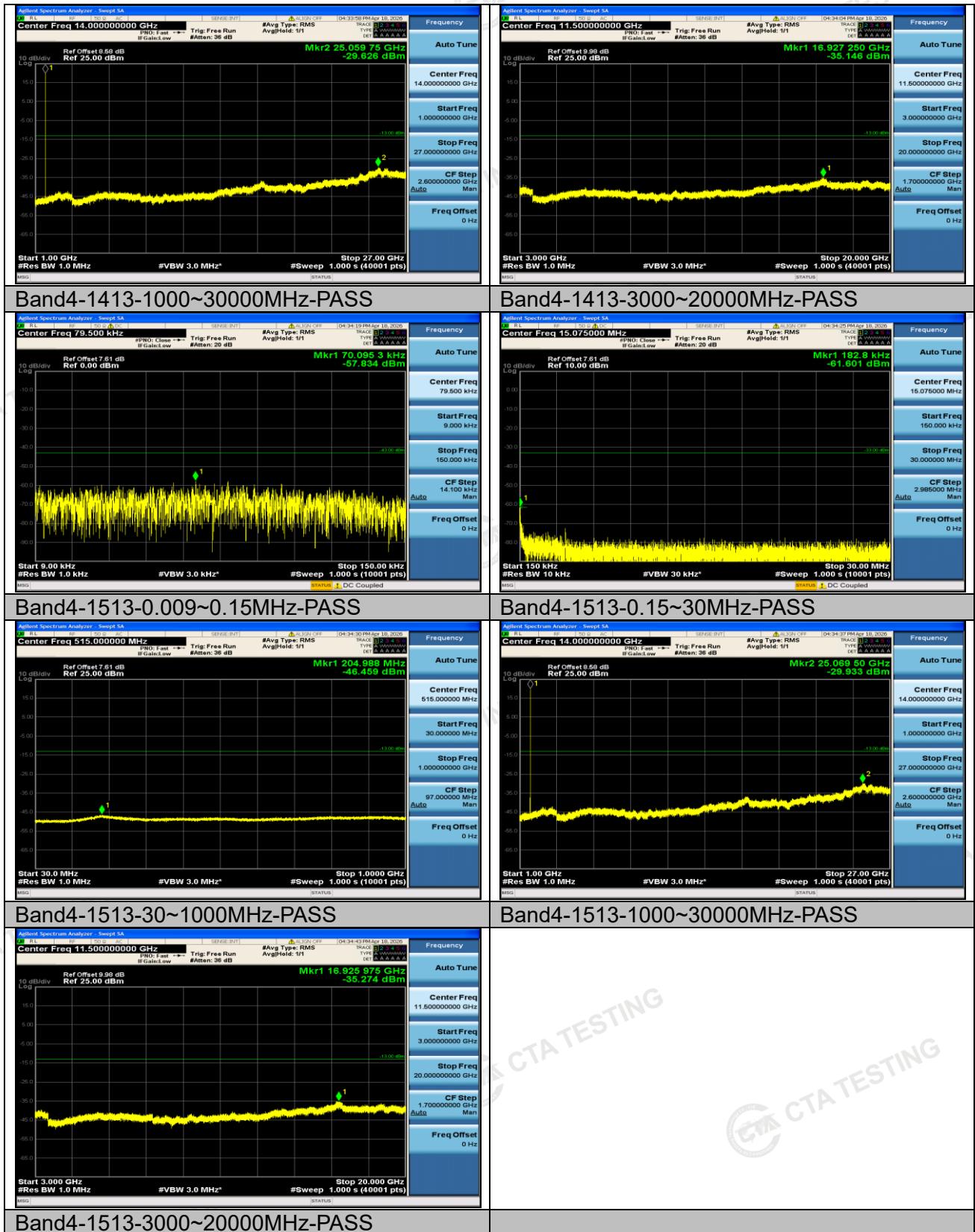
- a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
- d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i) The transmitter shall be replaced by a substitution antenna.
- j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k) The substitution antenna shall be connected to a calibrated signal generator.
- l) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q) The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz and 1MHz for above 1GHz. The frequency range was checked up to 10th harmonic.
- r) Test site anechoic chamber refer to ANSI C63.4.

**TEST RESULTS****Conducted Measurement:****WCDMA Band II**

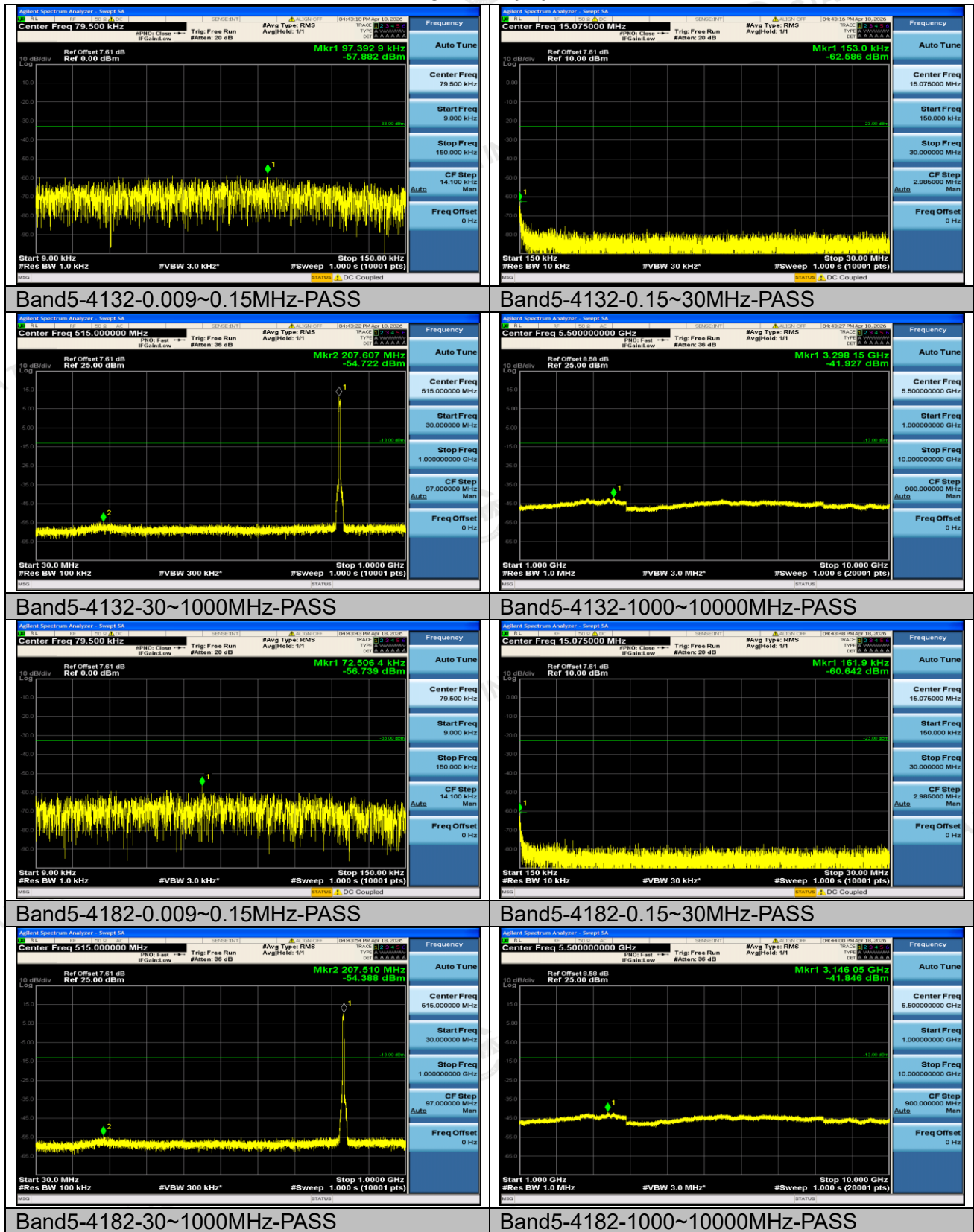


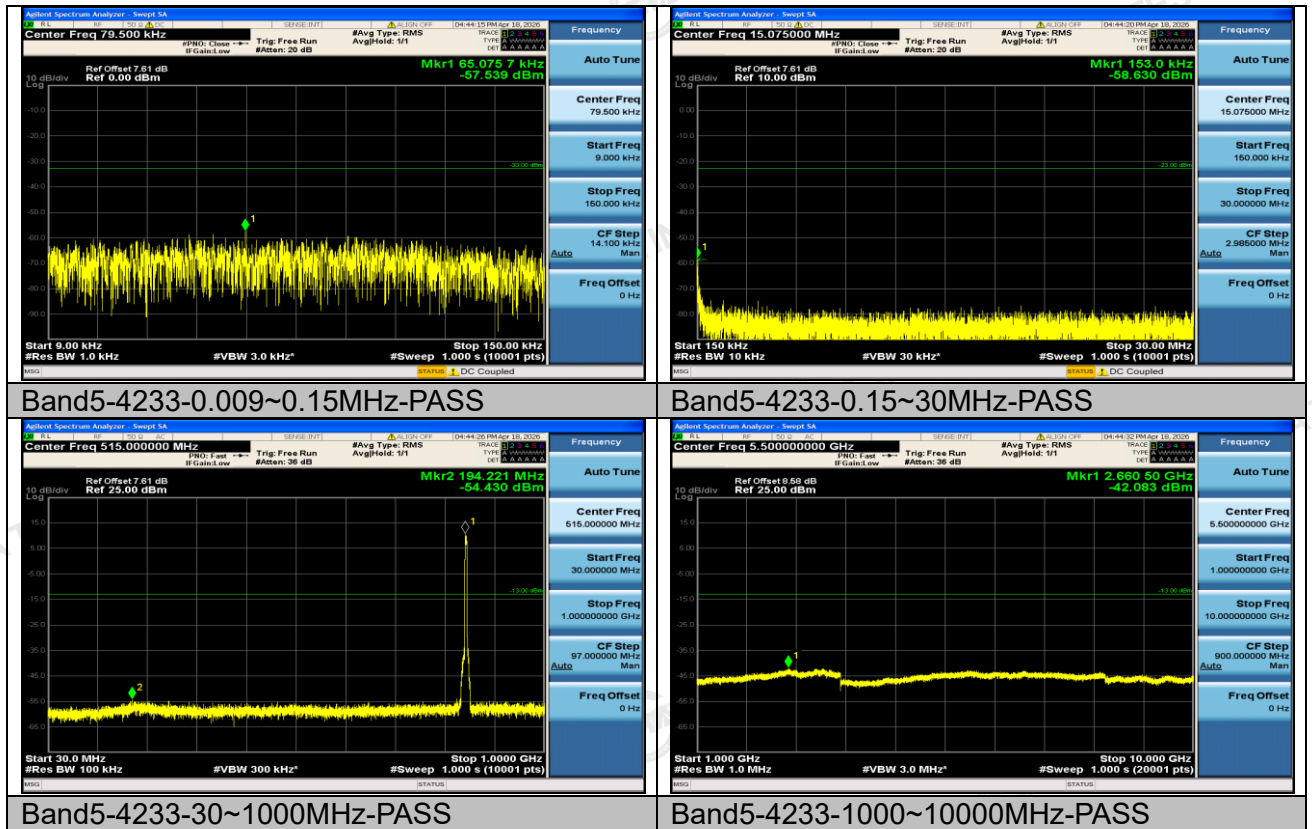
### WCDMA Band IV





## WCDMA Band V





**Radiated Measurement:****WCDMA Band II**

| Channel | Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Distance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---------|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 9262    | 3704.80         | -43.12                 | 4.27                 | 3.00     | 12.34                           | -35.05          | -13.00      | -22.05      | H            |
|         | 5557.20         | -47.71                 | 4.99                 | 3.00     | 13.52                           | -39.18          | -13.00      | -26.18      | H            |
|         | 3704.80         | -42.83                 | 4.27                 | 3.00     | 12.34                           | -34.76          | -13.00      | -21.76      | V            |
|         | 5557.20         | -50.71                 | 4.99                 | 3.00     | 13.52                           | -42.18          | -13.00      | -29.18      | V            |
| 9400    | 3760.00         | -44.08                 | 4.38                 | 3.00     | 12.34                           | -36.12          | -13.00      | -23.12      | H            |
|         | 5640.00         | -48.58                 | 5.01                 | 3.00     | 13.58                           | -40.01          | -13.00      | -27.01      | H            |
|         | 3760.00         | -44.29                 | 4.38                 | 3.00     | 12.34                           | -36.33          | -13.00      | -23.33      | V            |
|         | 5640.00         | -54.28                 | 5.01                 | 3.00     | 13.58                           | -45.71          | -13.00      | -32.71      | V            |
| 9538    | 3815.20         | -41.79                 | 4.47                 | 3.00     | 12.45                           | -33.81          | -13.00      | -20.81      | H            |
|         | 5722.80         | -54.30                 | 5.23                 | 3.00     | 13.66                           | -45.87          | -13.00      | -32.87      | H            |
|         | 3815.20         | -44.43                 | 4.47                 | 3.00     | 12.45                           | -36.45          | -13.00      | -23.45      | V            |
|         | 5722.80         | -52.45                 | 5.23                 | 3.00     | 13.66                           | -44.02          | -13.00      | -31.02      | V            |

**WCDMA Band IV**

| Channel | Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Distance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---------|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1312    | 3424.80         | -44.18                 | 3.98                 | 3.00     | 10.98                           | -37.18          | -13.00      | -24.18      | H            |
|         | 5137.20         | -51.07                 | 4.11                 | 3.00     | 11.47                           | -43.71          | -13.00      | -30.71      | H            |
|         | 3424.80         | -44.49                 | 3.98                 | 3.00     | 10.98                           | -37.49          | -13.00      | -24.49      | V            |
|         | 5137.20         | -47.16                 | 4.11                 | 3.00     | 11.47                           | -39.80          | -13.00      | -26.80      | V            |
| 1413    | 3465.20         | -46.00                 | 4.01                 | 3.00     | 11.25                           | -38.76          | -13.00      | -25.76      | H            |
|         | 5197.80         | -46.23                 | 4.15                 | 3.00     | 11.58                           | -38.80          | -13.00      | -25.80      | H            |
|         | 3465.20         | -45.04                 | 4.01                 | 3.00     | 11.25                           | -37.80          | -13.00      | -24.80      | V            |
|         | 5197.80         | -49.22                 | 4.15                 | 3.00     | 11.58                           | -41.79          | -13.00      | -28.79      | V            |
| 1513    | 3505.20         | -44.64                 | 4.07                 | 3.00     | 11.33                           | -37.38          | -13.00      | -24.38      | H            |
|         | 5275.80         | -47.46                 | 4.21                 | 3.00     | 11.67                           | -40.00          | -13.00      | -27.00      | H            |
|         | 3505.20         | -42.02                 | 4.07                 | 3.00     | 11.33                           | -34.76          | -13.00      | -21.76      | V            |
|         | 5275.80         | -55.15                 | 4.21                 | 3.00     | 11.67                           | -47.69          | -13.00      | -34.69      | V            |

**WCDMA Band V**

| Channel | Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Distance | G <sub>a</sub> Antenna Gain (dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---------|-----------------|------------------------|----------------------|----------|----------------------------------|-----------------|-------------|-------------|--------------|
| 4132    | 1652.80         | -40.90                 | 3.02                 | 3.00     | 9.58                             | -34.34          | -13.00      | -21.34      | H            |
|         | 2479.20         | -47.02                 | 3.51                 | 3.00     | 10.72                            | -39.81          | -13.00      | -26.81      | H            |
|         | 1652.80         | -45.64                 | 3.02                 | 3.00     | 9.68                             | -38.98          | -13.00      | -25.98      | V            |
|         | 2479.20         | -49.51                 | 3.51                 | 3.00     | 10.72                            | -42.30          | -13.00      | -29.30      | V            |
| 4182    | 1672.80         | -45.32                 | 3.14                 | 3.00     | 9.61                             | -38.85          | -13.00      | -25.85      | H            |
|         | 2509.20         | -53.17                 | 3.59                 | 3.00     | 10.77                            | -45.99          | -13.00      | -32.99      | H            |
|         | 1672.80         | -44.60                 | 3.14                 | 3.00     | 9.61                             | -38.13          | -13.00      | -25.13      | V            |
|         | 2509.20         | -48.96                 | 3.59                 | 3.00     | 10.77                            | -41.78          | -13.00      | -28.78      | V            |
| 4233    | 1693.20         | -40.09                 | 3.24                 | 3.00     | 9.77                             | -33.56          | -13.00      | -20.56      | H            |
|         | 2539.80         | -50.52                 | 3.65                 | 3.00     | 10.89                            | -43.28          | -13.00      | -30.28      | H            |
|         | 1693.20         | -44.26                 | 3.24                 | 3.00     | 9.77                             | -37.73          | -13.00      | -24.73      | V            |
|         | 2539.80         | -49.32                 | 3.65                 | 3.00     | 10.89                            | -42.08          | -13.00      | -29.08      | V            |

Remark:

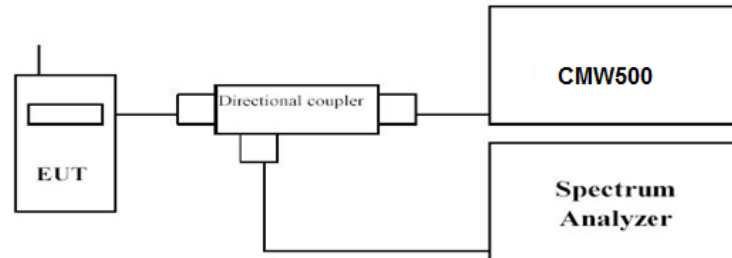
1.  $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
2. We were not recorded other points as values lower than limits.
3.  $Margin = EIRP - Limit$

### 3.5 Peak-to-Average Ratio (PAR)

#### LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

#### TEST CONFIGURATION

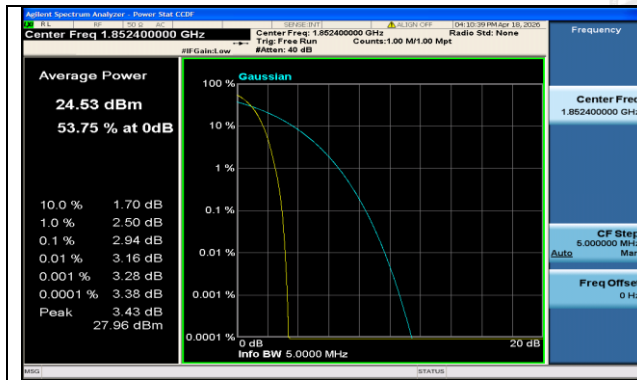


#### TEST PROCEDURE

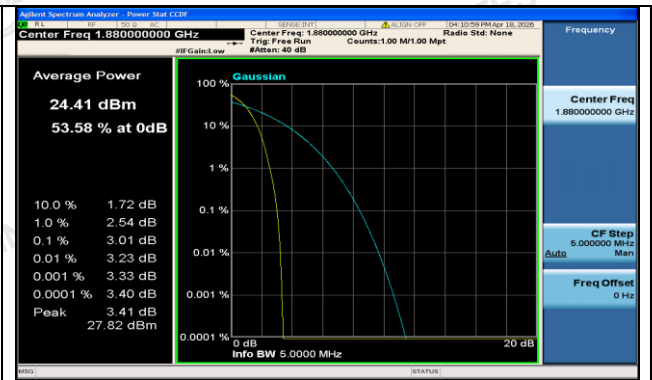
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows: 1). for continuous transmissions, set to 1 ms, 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

#### TEST RESULTS

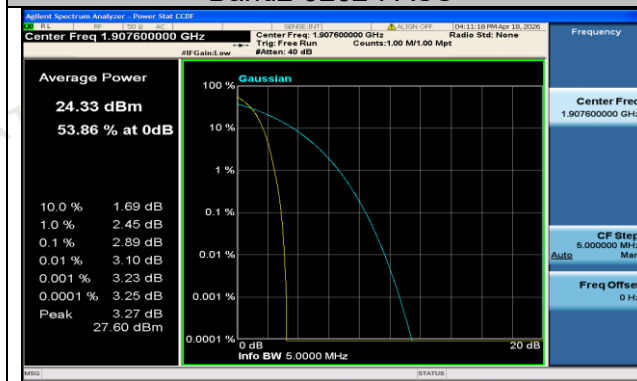
| Test mode     | Channel | Frequency (MHz) | PAPR Value (dB) | Limits (dB) | Verdict |
|---------------|---------|-----------------|-----------------|-------------|---------|
| WCDMA Band II | 9262    | 1852.4          | 2.94            | 13.0        | Pass    |
|               | 9400    | 1880.0          | 3.01            | 13.0        | Pass    |
|               | 9538    | 1907.6          | 2.89            | 13.0        | Pass    |
| WCDMA Band IV | 1312    | 1712.4          | 2.81            | 13.0        | Pass    |
|               | 1413    | 1732.6          | 3.06            | 13.0        | Pass    |
|               | 1513    | 1752.6          | 2.78            | 13.0        | Pass    |
| WCDMA Band V  | 4132    | 826.4           | 3.02            | 13.0        | Pass    |
|               | 4182    | 836.4           | 3.09            | 13.0        | Pass    |
|               | 4233    | 846.6           | 3.04            | 13.0        | Pass    |



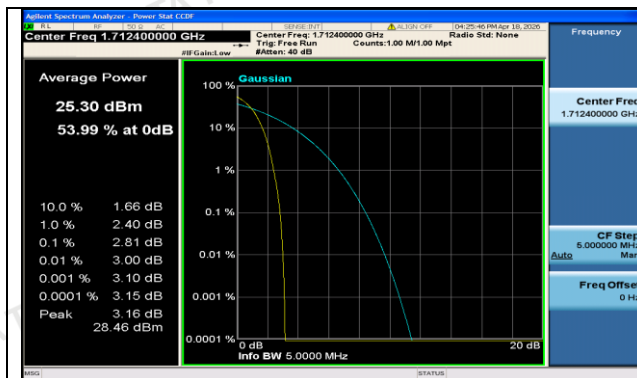
Band2-9262-PASS



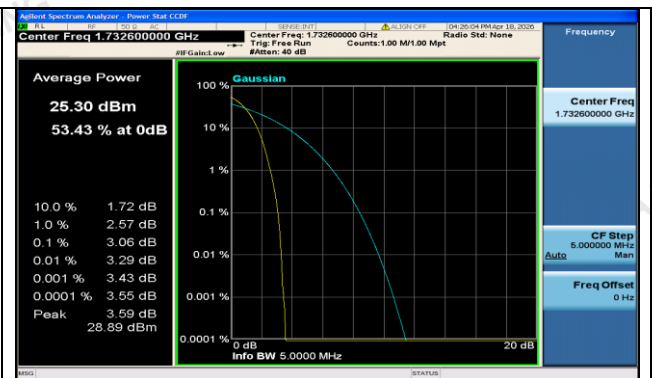
Band2-9400-PASS



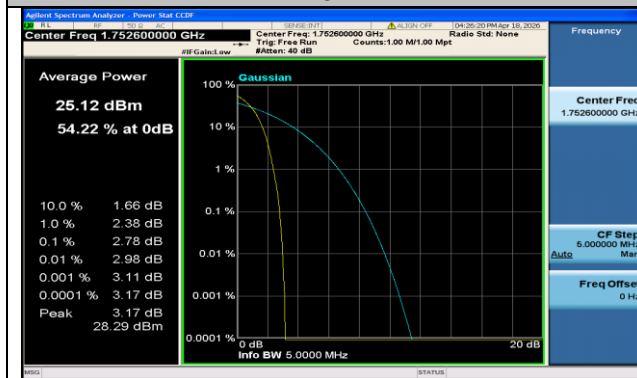
Band2-9538-PASS



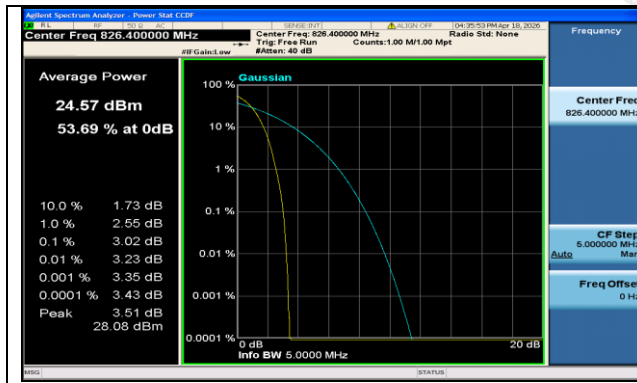
Band4-1312-PASS



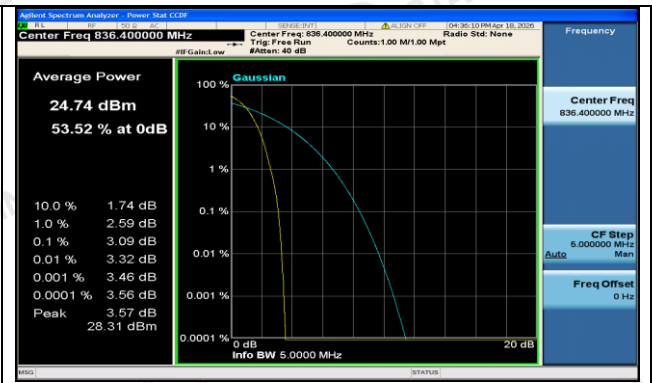
Band4-1413-PASS



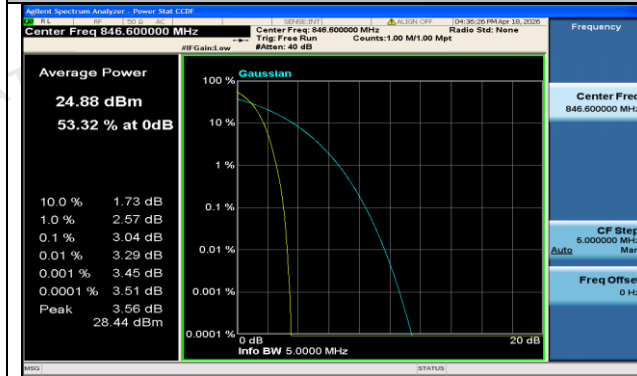
Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



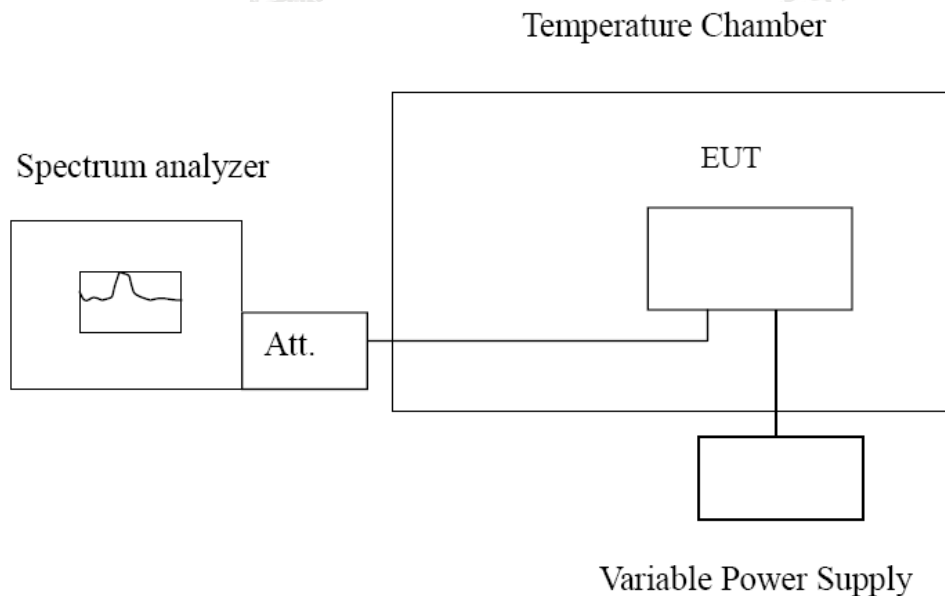
Band5-4233-PASS

### 3.6 Frequency Stability under Temperature & Voltage Variations

#### LIMIT

Cellular Band:  $\pm 2.5$  ppm PCS Band: Within the authorized frequency block

#### TEST CONFIGURATION



#### TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

##### **Frequency Stability under Temperature Variations:**

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

##### **Frequency Stability under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

#### TEST RESULTS

| Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880MHz |                  |                 |        |             |        |
|------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Voltage ( V )                                                          | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                        |                  | Hz              | ppm    |             |        |
| 3.85                                                                   | -30              | 3               | 0.002  | ± 2.5       | Pass   |
|                                                                        | -20              | 6               | 0.003  |             |        |
|                                                                        | -10              | 1               | 0.001  |             |        |
|                                                                        | 0                | 18              | 0.010  |             |        |
|                                                                        | 10               | -6              | -0.003 |             |        |
|                                                                        | 20               | 13              | 0.007  |             |        |
|                                                                        | 30               | -13             | -0.007 |             |        |
|                                                                        | 40               | -13             | -0.007 |             |        |
|                                                                        | 50               | 3               | 0.002  |             |        |
| 4.20                                                                   | 25               | 14              | 0.007  |             |        |
| End point 3.40                                                         | 25               | -17             | -0.009 |             |        |

| Reference Frequency: WCDMA Band IV Middle channel=1413 channel=1732.6MHz |                  |                 |        |             |        |
|--------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Voltage ( V )                                                            | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm    |             |        |
| 3.85                                                                     | -30              | 14              | 0.008  | ± 2.5       | Pass   |
|                                                                          | -20              | 4               | 0.002  |             |        |
|                                                                          | -10              | -15             | -0.009 |             |        |
|                                                                          | 0                | 10              | 0.006  |             |        |
|                                                                          | 10               | -4              | -0.002 |             |        |
|                                                                          | 20               | -13             | -0.008 |             |        |
|                                                                          | 30               | 0               | 0.000  |             |        |
|                                                                          | 40               | 9               | 0.005  |             |        |
|                                                                          | 50               | -20             | -0.012 |             |        |
| 4.20                                                                     | 25               | 4               | 0.002  |             |        |
| End point 3.40                                                           | 25               | 11              | 0.006  |             |        |

| Reference Frequency: WCDMA Band V Middle channel=4182 channel=836.4MHz |                  |                 |        |             |        |
|------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Voltage ( V )                                                          | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                        |                  | Hz              | ppm    |             |        |
| 3.85                                                                   | -30              | -9              | -0.011 | ± 2.5       | Pass   |
|                                                                        | -20              | 17              | 0.020  |             |        |
|                                                                        | -10              | 5               | 0.006  |             |        |
|                                                                        | 0                | 9               | 0.011  |             |        |
|                                                                        | 10               | 7               | 0.008  |             |        |
|                                                                        | 20               | -10             | -0.012 |             |        |
|                                                                        | 30               | -6              | -0.007 |             |        |
|                                                                        | 40               | -10             | -0.012 |             |        |
|                                                                        | 50               | 5               | 0.006  |             |        |
| 4.20                                                                   | 25               | 7               | 0.008  |             |        |
| End point 3.40                                                         | 25               | 19              | 0.023  |             |        |

#### 4 Test Setup Photos of the EUT





## 5 External and Internal Photos of the EUT

Reference to the test report No.CTA26040100301.

\*\*\*\*\* End of Report \*\*\*\*\*