

## CFR 47 FCC PART 22 H CFR 47 FCC PART 24 E CFR 47 FCC PART 27

## **TEST REPORT**

For

#### **5G Smart Phone**

#### **MODEL NUMBER: S6702X**

#### **REPORT NUMBER: 4791041023-1-RF-7**

ISSUE DATE: Jan. 12, 2024

#### FCC ID:2ADINS6702X

Prepared for

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Prepared by

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#### **Revision History**

| Rev. | Issue Date    | Revisions     | Revised By |
|------|---------------|---------------|------------|
| V0   | Jan. 12, 2024 | Initial Issue | \          |

Note:

1. This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27> when < Simple Acceptance > decision rule is applied.



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## **1. ATTESTATION OF TEST RESULTS**

#### Applicant Information

| Company Name: | Sun Cupid Technology (HK) Ltd.                    |
|---------------|---|
| Address:      | 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, |
|               | Kowloon Hong Kong                                 |

#### Manufacturer Information

| Company Name: | Sun Cupid Technology (HK) Ltd.                    |
|---------------|---|
| Address:      | 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, |
|               | Kowloon Hong Kong                                 |

#### EUT Information

| EUT Name:             | 5G Smart Phone                |
|-----------------------|-------------------------------|
| Model:                | S6702X                        |
| Series Model:         | B30 Pro, NUU B30 Pro          |
| Brand:                | NUU                           |
| Sample Received Date: | October 26, 2023              |
| Sample Status:        | Normal                        |
| Sample ID:            | 6616020                       |
| Date of Tested:       | Oct. 26, 2023 to Jan. 5, 2024 |

| APPLICABLE STANDARDS  |      |  |  |  |
|-----------------------|------|--|--|--|
| STANDARD TEST RESULTS |      |  |  |  |
| CFR 47 FCC PART 22 H  | PASS |  |  |  |
| CFR 47 FCC PART 24 E  | PASS |  |  |  |
| CFR 47 FCC PART 27    | PASS |  |  |  |

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27.

## 3. FACILITIES AND ACCREDITATION

|  | A2LA (Certificate No.: 4102.01)  |  |  |
|--|--|--|--|
|  | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.  |  |  |
|  | has been assessed and proved to be in compliance with A2LA.            |  |  |
|  | FCC (FCC Designation No.: CN1187)                                      |  |  |
|  | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.  |  |  |
|  | Has been recognized to perform compliance testing on equipment subject |  |  |
|  | to the Commission's Delcaration of Conformity (DoC) and Certification  |  |  |
|  | rules  |  |  |
|  | ISED (Company No.: 21320)  |  |  |
| Accreditation  | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.  |  |  |
| Certificate  | has been registered and fully described in a report filed with ISED.   |  |  |
| The Company Number is 21320 and the test lab Conformity Assess |  |  |  |
| Body Identifier (CABID) is CN0046.                             |  |  |  |
|  | VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)         |  |  |
|  | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.  |  |  |
|  | has been assessed and proved to be in compliance with VCCI, the        |  |  |
| Membership No. is 3793.  |  |  |  |
|  | Facility Name:   |  |  |
|  | Chamber D, the VCCI registration No. is G-20192 and R-20202.           |  |  |
|  | Shielding Room B, the VCCI registration No. is C-20153 and T-20155.    |  |  |

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



## 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

## 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item  | Uncertainty             |  |  |  |
|--|-------------------------|--|--|--|
| Conduction emission  | 3.62 dB                 |  |  |  |
| Radiated Emission<br>(Included Fundamental Emission) (9 kHz ~ 30 MHz)  | 2.2 dB                  |  |  |  |
| Radiated Emission<br>(Included Fundamental Emission) (30 MHz ~ 1 GHz)  | 4.00 dB                 |  |  |  |
|  | 5.78 dB (1 GHz-18 GHz)  |  |  |  |
| Radiated Emission<br>(Included Fundamental Emission) (1 GHz to 40 GHz)   | 5.23dB (18 GHz-26 GHz)  |  |  |  |
|  | 5.64 dB (26 GHz-40 GHz) |  |  |  |
| Bandwidth  | 1.1 %                   |  |  |  |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2. |                         |  |  |  |



## 5. EQUIPMENT UNDER TEST

## 5.1. DESCRIPTION OF EUT

| EUT Name:         | 5G Smart Phone  |
|-------------------|---|
| Model:            | S6702X  |
| Series Model:     | B30 Pro, NUU B30 Pro  |
| Model Difference: | B30 Pro, NUU B30 Pro have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with S6702X. The difference lies only the model number. all these changes do not degrade the unwanted emissions of the certified product. |

## 5.2. TEST CHANNEL CONFIGURATION

| Band         | Mode        | Low        | Middle     | High       |  |
|--------------|-------------|------------|------------|------------|--|
| WCDMA Band 2 | HSDPA/HSUPA | 9262       | 9400       | 9538       |  |
|              | NODPAINOUPA | 1852.4 MHz | 1880.0 MHz | 1907.6 MHz |  |
| WCDMA Band 4 | HSDPA/HSUPA | 1312       | 1413       | 1513       |  |
|              |             | 1712.4 MHz | 1732.6 MHz | 1752.6 MHz |  |
| WCDMA Band 5 | HSDPA/HSUPA | 4132       | 4182       | 4233       |  |
|              |             | 826.4 MHz  | 836.4 MHz  | 846.6 MHz  |  |



## 5.3. MAXIMUM ERP/EIRP POWER AND EMISSION DESIGNATOR

#### WCDMA Band2

| Part 24            |      | _                           |                                     |             |                     |                        |
|--------------------|------|-----------------------------|-------------------------------------|-------------|---------------------|------------------------|
| EIRP Limit(W)      | 2.0  |                             |                                     |             |                     |                        |
| Antenna Gain (dBi) | -0.9 |                             |                                     |             |                     |                        |
| Mode               |      | Frequency<br>Range<br>(MHz) | Conducted<br>Average power<br>(dBm) | EIRP<br>(W) | 99%<br>OBW<br>(MHz) | Emission<br>Designator |
| REL. 99            |      |                             | 20.93                               | 0.101       | 4.163               | 4M16F9W                |
| HSDPA              |      | 1852.4 ~ 1907.6             | 19.93                               | 0.080       | 4.165               | 4M17F9W                |
| HSUPA              |      |                             | 19.93                               | 0.080       | 4.161               | 4M16F9W                |

#### WCDMA Band4

| Part 27            |      | _                           |                                     |             |                     |                        |
|--------------------|------|-----------------------------|-------------------------------------|-------------|---------------------|------------------------|
| EIRP Limit(W)      | 1.0  |                             |                                     |             |                     |                        |
| Antenna Gain (dBi) | -0.1 |                             |                                     |             |                     |                        |
| Mode               |      | Frequency<br>Range<br>(MHz) | Conducted<br>Average power<br>(dBm) | EIRP<br>(W) | 99%<br>OBW<br>(MHz) | Emission<br>Designator |
| REL. 99            |      |                             | 21.03                               | 0.130       | 4.167               | 4M17F9W                |
| HSDPA              |      | 1712.4 ~ 1752.6             | 20.04                               | 0.103       | 4.165               | 4M17F9W                |
| HSUPA              |      |                             | 20.01                               | 0.103       | 4.163               | 4M16F9W                |

#### WCDMA Band5

| Part 22            |      | _                           |                                     |            |                     |                        |
|--------------------|------|-----------------------------|-------------------------------------|------------|---------------------|------------------------|
| ERP Limit(W)       | 7.0  |                             |                                     |            |                     |                        |
| Antenna Gain (dBi) | -3.9 |                             |                                     |            |                     |                        |
| Mode               |      | Frequency<br>Range<br>(MHz) | Conducted<br>Average power<br>(dBm) | ERP<br>(W) | 99%<br>OBW<br>(MHz) | Emission<br>Designator |
| REL. 99            |      |                             | 23.39                               | 0.054      | 4.175               | 4M18F9W                |
| HSDPA              |      | 826.4 ~ 846.6               | 22.55                               | 0.045      | 4.178               | 4M18F9W                |
| HSUPA              |      |                             | 22.39                               | 0.043      | 4.168               | 4M17F9W                |



## 5.4. WORST-CASE CONFIGURATION AND MODE

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was the worst-case orientation.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There were no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz were tested at the low, mid, high channel and the worst configuration. Only the worst result is reported.



## 5.5. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna | Band         | Antenna Type | MAX Antenna Gain (dBi) |
|---------|--------------|--------------|------------------------|
| Ant0    | WCDMA Band 2 | FPC          | -0.9                   |
| Ant0    | WCDMA Band 4 | FPC          | 0.1                    |
| Ant0    | WCDMA Band 5 | FPC          | -3.9                   |

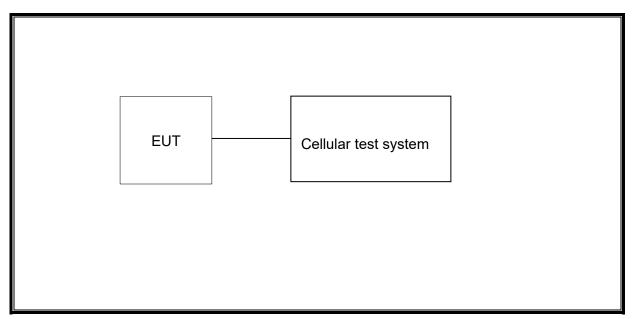
| Band         | Transmit and<br>Receive Mode | Description  |
|--------------|------------------------------|--|
| WCDMA Band 2 | ⊠1TX, 2RX                    | Ant0 antenna can be used as<br>transmitting/receiving antenna, DIV antenna can<br>be used as receiving antenna |
| WCDMA Band 4 | ⊠1TX, 2RX                    | Ant0 antenna can be used as<br>transmitting/receiving antenna, DIV antenna can<br>be used as receiving antenna |
| WCDMA Band 5 | ⊠1TX, 2RX                    | Ant0 antenna can be used as<br>transmitting/receiving antenna, DIV antenna can<br>be used as receiving antenna |

Note: The value of the antenna gain was declared by customer.

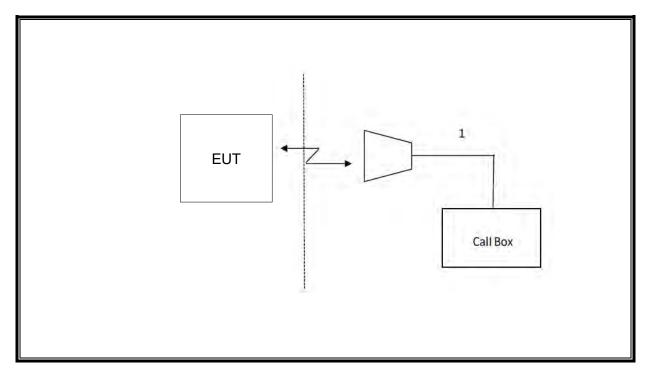


## 5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated





#### **Antenna Terminal Test** Instrument Manufacturer Model No. Serial No. Last Cal. Next Cal. Used Equipment FSV40 S422060001 $\overline{\mathbf{A}}$ Spectrum Analyzer R&S Oct.12, 2023 Oct.11, 2024 Wideband Radio $\checkmark$ Communication R&S 155523 Oct.12, 2023 Oct.11, 2024 CMW500 Tester $\overline{\mathbf{N}}$ **DC Power Supply** 3662A A1512015 Oct.12, 2023 Oct.11, 2024 Array Software Name Description Manufacturer Version Used JS1120 RF Auto Test $\mathbf{\nabla}$ Tonsend Cellular Test System Tonsend 3.1.46 System **Radiated Test** Instrument Manufacturer Model No. Serial No. Last Cal. Next Cal. Used Equipment **KESIGHT** $\checkmark$ MXE EMI Receiver N9038A MY56400036 Oct.12, 2023 Oct.11, 2024 HLP-Hybrid Log $\checkmark$ TDK 130959 Aug.02, 2021 Aug.01, 2024 Periodic Antenna 3003C $\checkmark$ Preamplifier HP 8447D 2944A09099 Oct.12, 2023 Oct.11, 2024 **EMI** Measurement $\checkmark$ R&S ESR26 101377 Oct.12, 2023 Oct.11, 2024 Receiver $\checkmark$ Horn Antenna TDK HRN-0118 130940 July 20, 2021 July 19, 2024 $\overline{\mathbf{V}}$ Schwarzbeck BBHA9170 July 20, 2021 July 19, 2024 Horn Antenna 697 PA-02-TRS-305- $\checkmark$ Preamplifier TDK Oct.12, 2023 Oct.11, 2024 00067 0118 TRS-307-PA-02-2 Oct.12, 2023 $\checkmark$ Preamplifier TDK Oct.11, 2024 00003 $\overline{\mathbf{A}}$ 80000 Loop antenna Schwarzbeck 1519B Dec.14, 2021 Dec.13, 2024 **WHKX10-**2700- $\checkmark$ **High Pass Filter** Wi 3000-23 Oct.12, 2023 Oct.11, 2024 18000-40SS Software Manufacturer Used Description Name Version $\checkmark$ Test Software for Radiated disturbance Farad EZ-EMC Ver. UL-3A1

6. MEASURING INSTRUMENT AND SOFTWARE USED



## 7. ANTENNA TERMINAL TEST RESULTS

## 7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

#### RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

#### LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP. 27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

In addition, when the transmitter power is measured in terms of average value, the peak-toaverage ratio of the power shall not exceed 13 dB.

#### TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6

ERP/ EIRP = PMeas + GT - LC

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

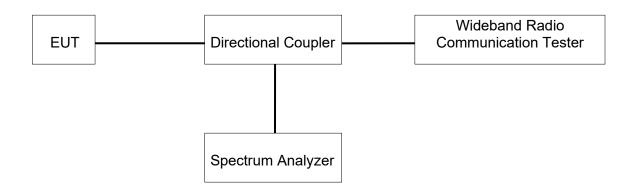
PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

#### TEST SETUP





| Temperature         | 23.2°C | Relative Humidity | 52.6%     |
|---------------------|--------|-------------------|-----------|
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3.87 V |

#### **RESULTS**

Please refer to Appendix A.



## 7.2. PEAK TO AVERAGE RADIO

#### <u>LIMITS</u>

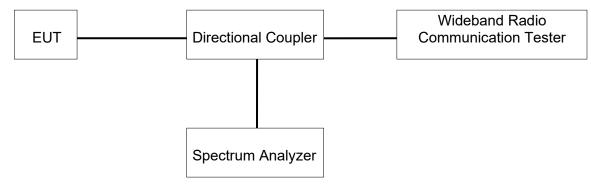
In addition, when the transmitter power is measured in terms of average value, the peak-toaverage ratio of the power shall not exceed 13 dB.

#### TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

#### TEST SETUP



#### TEST ENVIRONMENT

| Temperature         | 23.2°C | Relative Humidity | 52.6%     |
|---------------------|--------|-------------------|-----------|
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3.87 V |

#### **RESULTS**

Middle was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix B.



## 7.3. OCCUPIED BANDWIDTH

#### RULE PART(S)

FCC: §2.1049

#### <u>LIMITS</u>

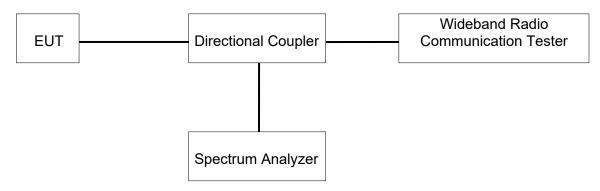
For reporting purposes only.

#### TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

#### TEST SETUP



#### TEST ENVIRONMENT

| Temperature         | 23.2°C | Relative Humidity | 52.6%     |
|---------------------|--------|-------------------|-----------|
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3.87 V |

#### **RESULTS**

There is no limit required and power is the same for low, middle and high channel, therefore, only middle channel was tested.

Please refer to Appendix C.



## 7.4. BAND EDGE EMISSIONS

#### RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53

#### LIMITS

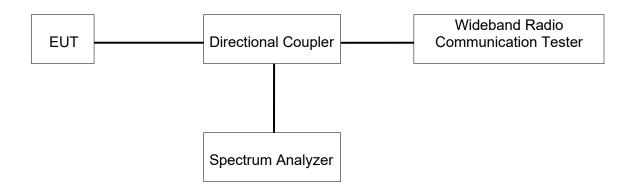
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P) dB$ .

#### TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01 The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
- b) Set VBW  $\geq$  3 × RBW;
- c) Set span  $\geq$  1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points  $\geq 2^{*}$ Span/RBW;
- g) Trace mode = Average (100);





#### **TEST ENVIRONMENT**

| Temperature         | 23.2°C | Relative Humidity | 52.6%     |
|---------------------|--------|-------------------|-----------|
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3.87 V |

#### **RESULTS**

Please refer to Appendix D.



## 7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

#### RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

#### <u>LIMITS</u>

FCC: §22.901, §22.917, §24.238

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 PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

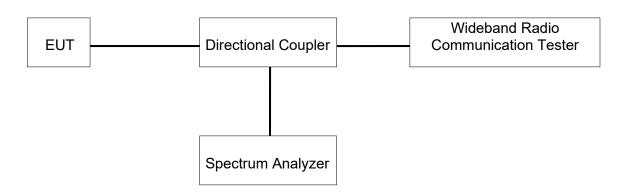
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz (Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)

- b) Set VBW  $\geq$  3 × RBW;
- c) Set span  $\geq$  1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

#### TEST SETUP





| Temperature         | 23.2°C | Relative Humidity | 52.6%     |
|---------------------|--------|-------------------|-----------|
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3.87 V |

## <u>RESULTS</u>

Please refer to Appendix E.



7.6.

#### Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54

**FREQUENCY STABILITY** 

#### LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

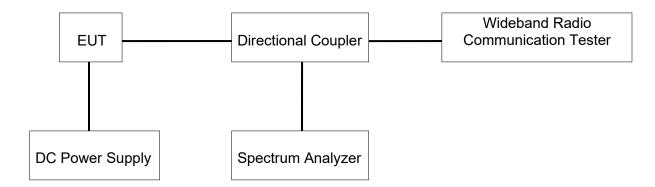
#### TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

|                             | Normal Test Conditions               | Extreme Test Conditions                  |  |
|-----------------------------|--------------------------------------|--|--|
| Relative Humidity           | 45 % - 75 %                          | /  |  |
| <b>Atmospheric Pressure</b> | 100 kPa ~102 kPa                     | /  |  |
| Tomporatura                 | T <sub>N</sub> (Normal Temperature): | T <sub>L</sub> (Low Temperature): -30 °C |  |
| Temperature                 | 24.7 °C                              | T <sub>н</sub> (High Temperature): 50 °C |  |
| Supply Voltage              | V <sub>N</sub> (Normal Voltage):     | V <sub>L</sub> (Low Voltage): DC 3.3V    |  |
| Supply Voltage              | DC 3.87 V                            | V <sub>H</sub> (High Voltage): DC 4.5 V  |  |



#### TEST SETUP



#### TEST ENVIRONMENT

| Temperature         | 23.2°C | Relative Humidity | 52.6% |
|---------------------|--------|-------------------|-------|
| Atmosphere Pressure | 101kPa | Test Voltage      | /     |

#### **RESULTS**

The peak frequency error is recorded (worst-case).

Please refer to Appendix F.



# 8.1. AppendixA: Effective (Isotropic) Radiated Power Output Data 8.1.1. Test Result

|          | Band 2       | ļ      | Average Power (dB | m)     |
|----------|--------------|--------|-------------------|--------|
|          |              | 9262CH | 9400CH            | 9538CH |
|          | 12.2kbps RMC | 20.93  | 20.80             | 20.67  |
| WCDMA    | 64kbps RMC   | 20.73  | 20.65             | 20.54  |
| VVCDIVIA | 144kbps RMC  | 20.74  | 20.68             | 20.53  |
|          | 384kbps RMC  | 20.75  | 20.66             | 20.55  |
|          | Subtest 1    | 19.93  | 19.81             | 19.67  |
| HSDPA    | Subtest 2    | 19.68  | 19.80             | 19.67  |
| HSDFA    | Subtest 3    | 19.67  | 19.79             | 19.68  |
|          | Subtest 4    | 19.68  | 19.80             | 19.68  |
|          | Subtest 1    | 17.58  | 17.77             | 17.66  |
|          | Subtest 2    | 17.65  | 17.77             | 17.67  |
| HSUPA    | Subtest 3    | 17.66  | 17.76             | 17.64  |
|          | Subtest 4    | 17.66  | 17.76             | 17.65  |
|          | Subtest 5    | 19.93  | 19.80             | 19.69  |

| Band 4 |              | Average Power (dBm) |        |        |  |
|--------|--------------|---------------------|--------|--------|--|
|        |              | 1312CH              | 1413CH | 1513CH |  |
|        | 12.2kbps RMC | 20.90               | 20.96  | 21.03  |  |
| WCDMA  | 64kbps RMC   | 20.71               | 20.80  | 20.91  |  |
| WCDIMA | 144kbps RMC  | 20.80               | 20.76  | 20.91  |  |
|        | 384kbps RMC  | 20.78               | 20.81  | 20.89  |  |
|        | Subtest 1    | 19.91               | 19.96  | 20.02  |  |
| HSDPA  | Subtest 2    | 20.03               | 19.96  | 20.03  |  |
| HSDPA  | Subtest 3    | 20.02               | 19.94  | 20.02  |  |
|        | Subtest 4    | 20.04               | 19.97  | 20.03  |  |
|        | Subtest 1    | 17.91               | 17.91  | 17.96  |  |
|        | Subtest 2    | 17.98               | 17.91  | 17.98  |  |
| HSUPA  | Subtest 3    | 17.98               | 17.94  | 17.98  |  |
|        | Subtest 4    | 17.98               | 17.91  | 17.98  |  |
|        | Subtest 5    | 19.89               | 19.94  | 20.01  |  |



|          | Band 5       |        | Average Power (dBm) |        |  |  |
|----------|--------------|--------|---------------------|--------|--|--|
| Danu S   |              | 4132CH | 4183CH              | 4233CH |  |  |
|          | 12.2kbps RMC | 23.20  | 23.26               | 23.39  |  |  |
| WCDMA    | 64kbps RMC   | 23.03  | 23.15               | 23.24  |  |  |
| VVCDIVIA | 144kbps RMC  | 23.04  | 23.16               | 23.24  |  |  |
|          | 384kbps RMC  | 23.05  | 23.14               | 23.20  |  |  |
|          | Subtest 1    | 22.21  | 22.24               | 22.48  |  |  |
| HSDPA    | Subtest 2    | 22.55  | 22.25               | 22.41  |  |  |
| HSDPA    | Subtest 3    | 22.51  | 22.24               | 22.47  |  |  |
|          | Subtest 4    | 22.53  | 22.24               | 22.38  |  |  |
|          | Subtest 1    | 20.77  | 20.28               | 20.38  |  |  |
|          | Subtest 2    | 20.34  | 20.31               | 20.36  |  |  |
| HSUPA    | Subtest 3    | 20.37  | 20.29               | 20.37  |  |  |
|          | Subtest 4    | 20.40  | 20.30               | 20.35  |  |  |
|          | Subtest 5    | 22.28  | 22.32               | 22.39  |  |  |



## 8.2. AppendixB:Peak-to-Average Ratio 8.2.1. Test Result

**REL99**:

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 3.16                      | 13        | PASS    |
| Band4 | 1413    | 3.12                      | 13        | PASS    |
| Band5 | 4182    | 3.14                      | 13        | PASS    |

#### HSDPA:

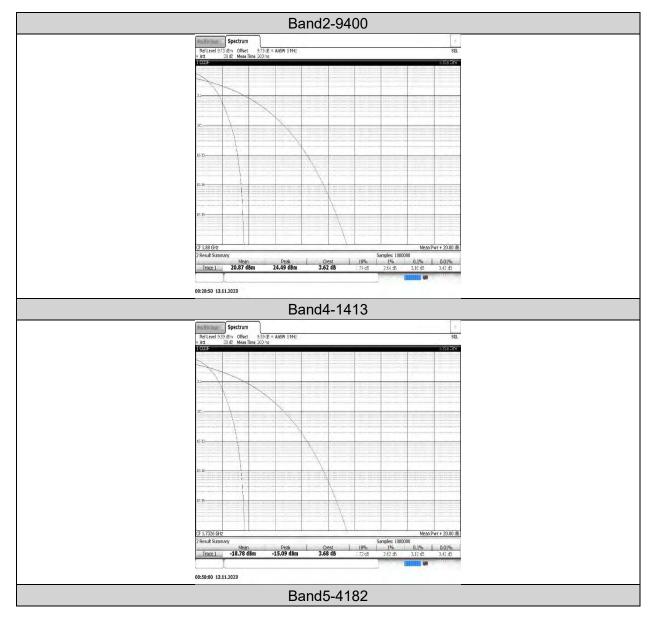
| Band  | Channel | SubTest | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 4       | 3.88                      | 13        | PASS    |
| Band4 | 1413    | 4       | 3.94                      | 13        | PASS    |
| Band5 | 4182    | 4       | 3.9                       | 13        | PASS    |

#### HSUPA:

| Band  | Channel | SubTest | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------|---------------------------|-----------|---------|
| Band2 | 9400    | 5       | 4.34                      | 13        | PASS    |
| Band4 | 1413    | 5       | 4.32                      | 13        | PASS    |
| Band5 | 4182    | 5       | 4.2                       | 13        | PASS    |

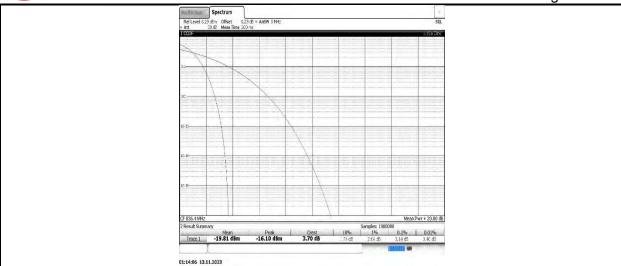


## 8.2.1. Test Graphs

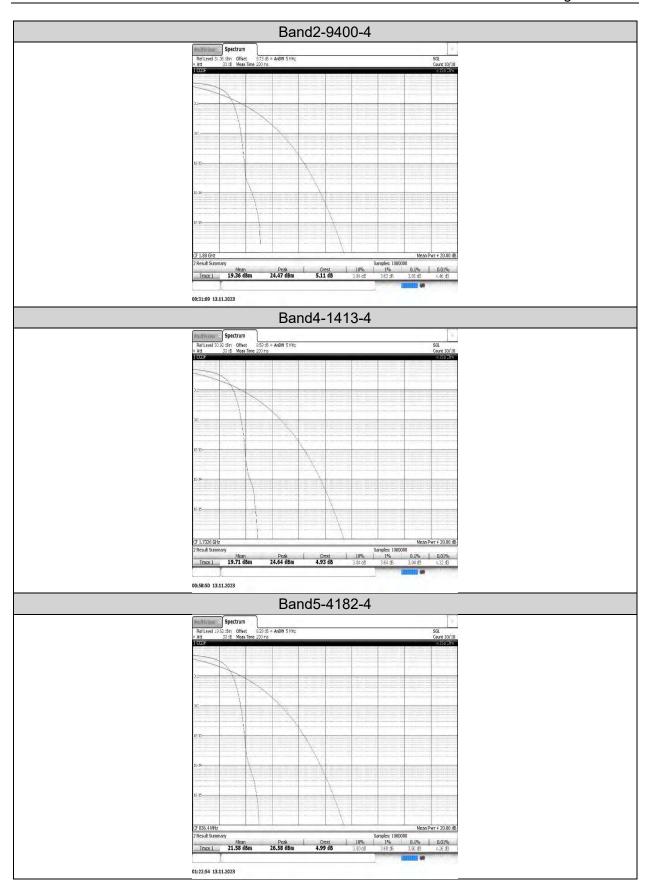




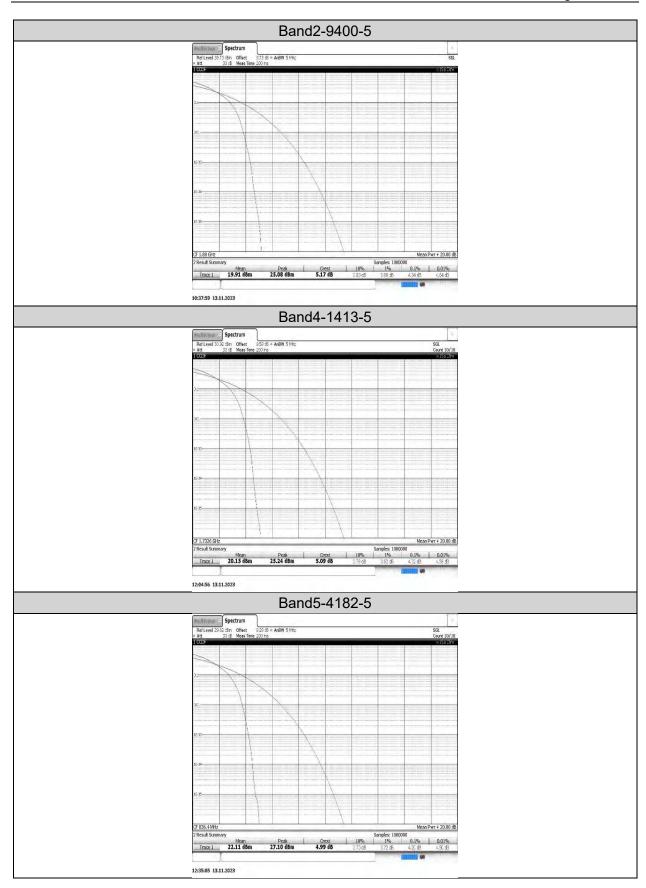
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# 8.3. AppendixC:26dB Bandwidth and Occupied Bandwidth 8.3.1. Test Result

**REL99**:

| Band  | Channel | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9400    | 4.163                       | 4.73                    |            | PASS    |
| Band4 | 1413    | 4.167                       | 4.73                    |            | PASS    |
| Band5 | 4182    | 4.175                       | 4.74                    |            | PASS    |

HSDPA:

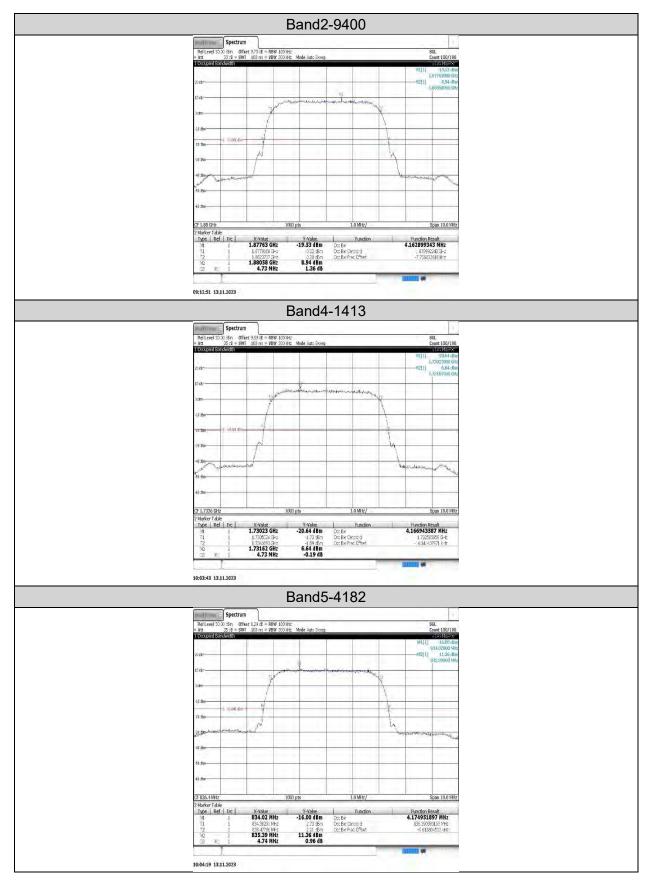
| Band  | Channel | SubTest | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9400    | 4       | 4.165                       | 4.72                    |            | PASS    |
| Band4 | 1413    | 4       | 4.165                       | 4.71                    |            | PASS    |
| Band5 | 4182    | 4       | 4.178                       | 4.72                    |            | PASS    |

HSUPA:

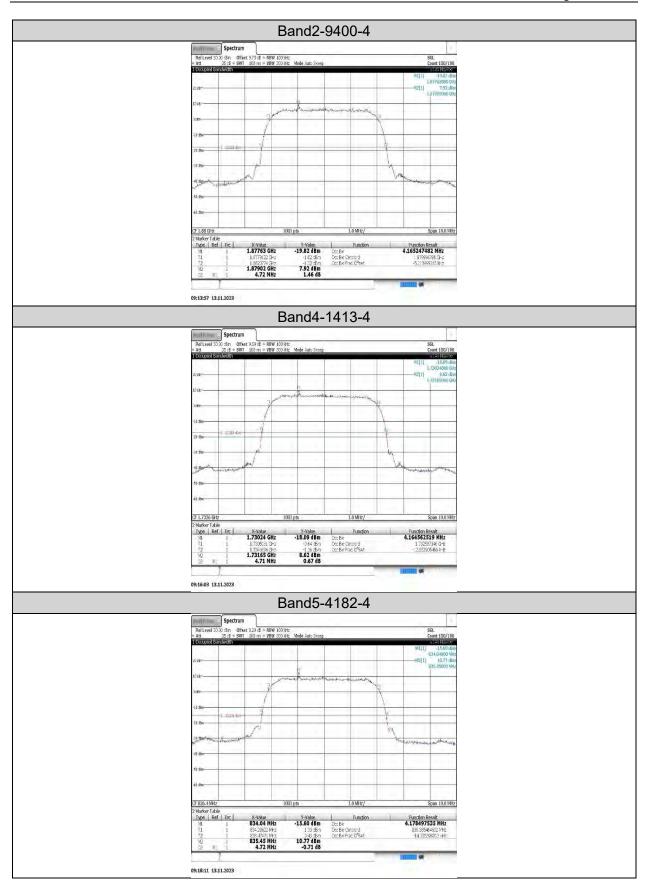
| Band  | Channel | SubTest | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band2 | 9400    | 5       | 4.161                       | 4.72                    |            | PASS    |
| Band4 | 1413    | 5       | 4.163                       | 4.71                    |            | PASS    |
| Band5 | 4182    | 5       | 4.168                       | 4.72                    |            | PASS    |



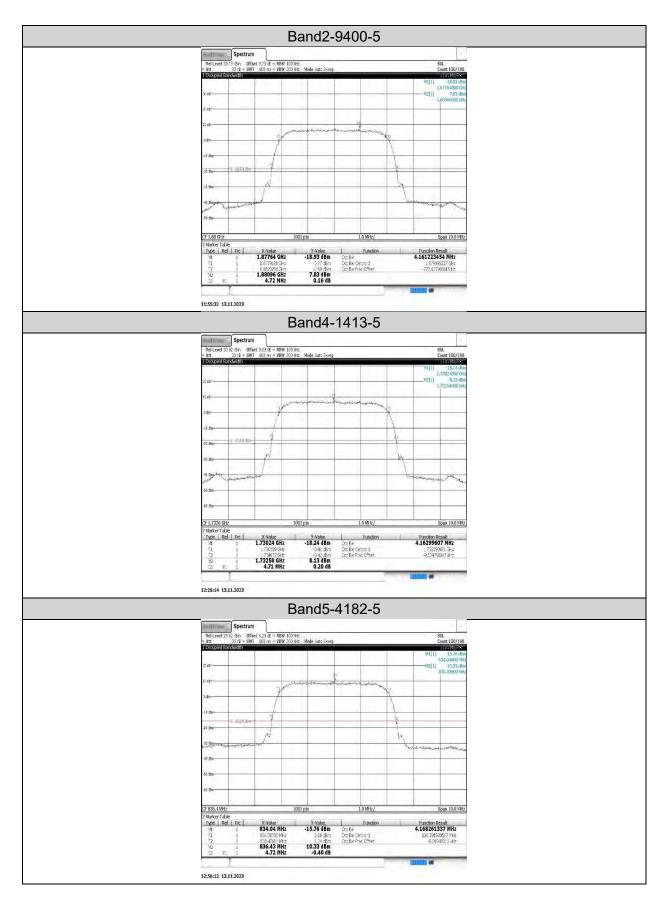
## 8.3.2. Test Graphs













## 8.4. AppendixD:Band Edge 8.4.1. Test Result

**REL99**:

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 1849.88         | -30.13       | -13        | PASS    |
| Band2 | 9538    | 1910.11         | -30.53       | -13        | PASS    |
| Band4 | 1312    | 1709.88         | -30.98       | -13        | PASS    |
| Band4 | 1513    | 1755.00         | -33.07       | -13        | PASS    |
| Band5 | 4132    | 824.00          | -28.66       | -13        | PASS    |
| Band5 | 4233    | 849.00          | -27.35       | -13        | PASS    |

#### HSDPA:

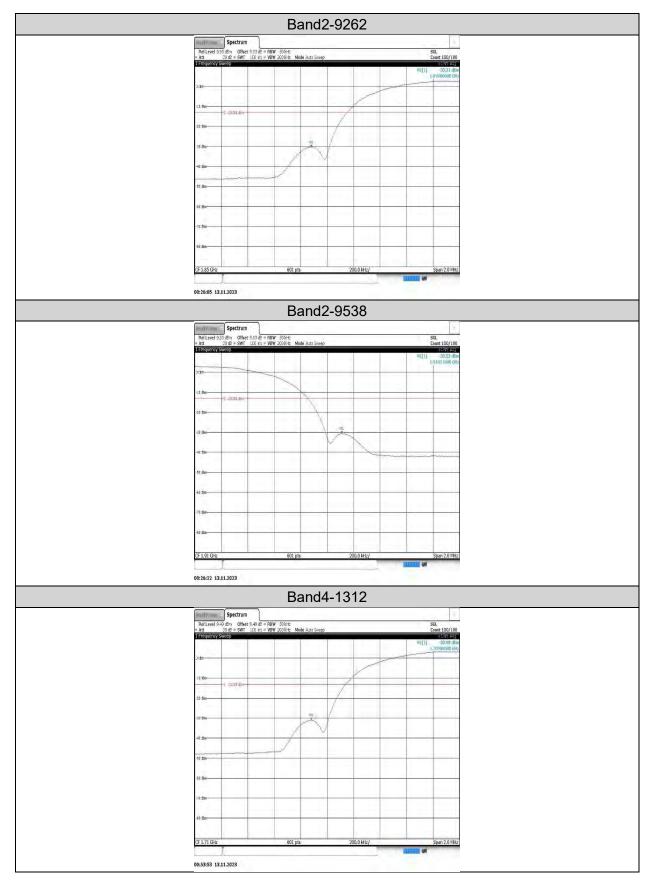
| Band  | Channel | SubTest | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 4       | 1850.00         | -33.60       | -13        | PASS    |
| Band2 | 9538    | 4       | 1910.12         | -33.64       | -13        | PASS    |
| Band4 | 1312    | 4       | 1709.88         | -33.41       | -13        | PASS    |
| Band4 | 1513    | 4       | 1755.12         | -34.32       | -13        | PASS    |
| Band5 | 4132    | 4       | 823.87          | -54.25       | -13        | PASS    |
| Band5 | 4233    | 4       | 849.13          | -45.17       | -13        | PASS    |

#### HSUPA:

| Band  | Channel | SubTest | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 5       | 1849.87         | -31.85       | -13        | PASS    |
| Band2 | 9538    | 5       | 1910.12         | -36.11       | -13        | PASS    |
| Band4 | 1312    | 5       | 1709.87         | -31.94       | -13        | PASS    |
| Band4 | 1513    | 5       | 1755.13         | -33.66       | -13        | PASS    |
| Band5 | 4132    | 5       | 823.87          | -30.95       | -13        | PASS    |
| Band5 | 4233    | 5       | 849.13          | -29.14       | -13        | PASS    |

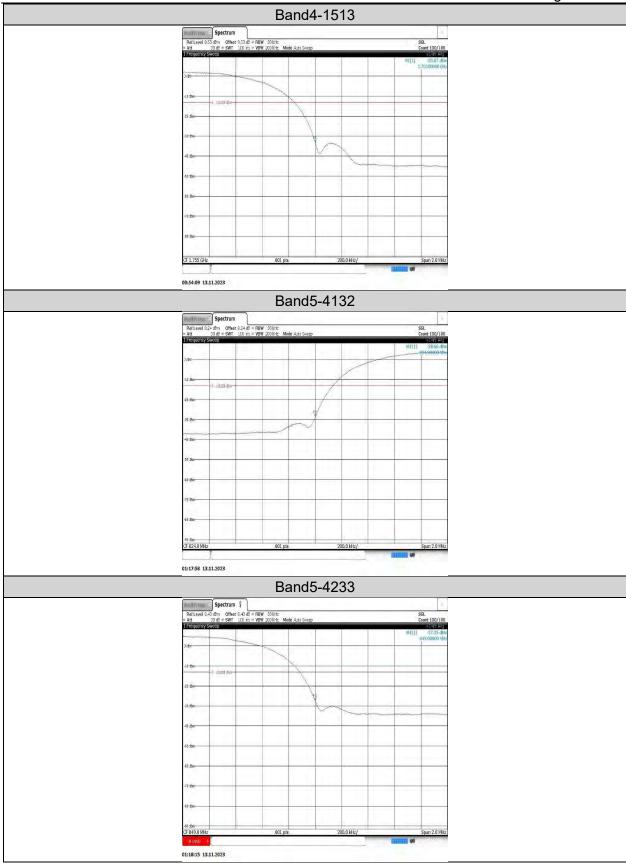


## 8.4.2. Test Graphs



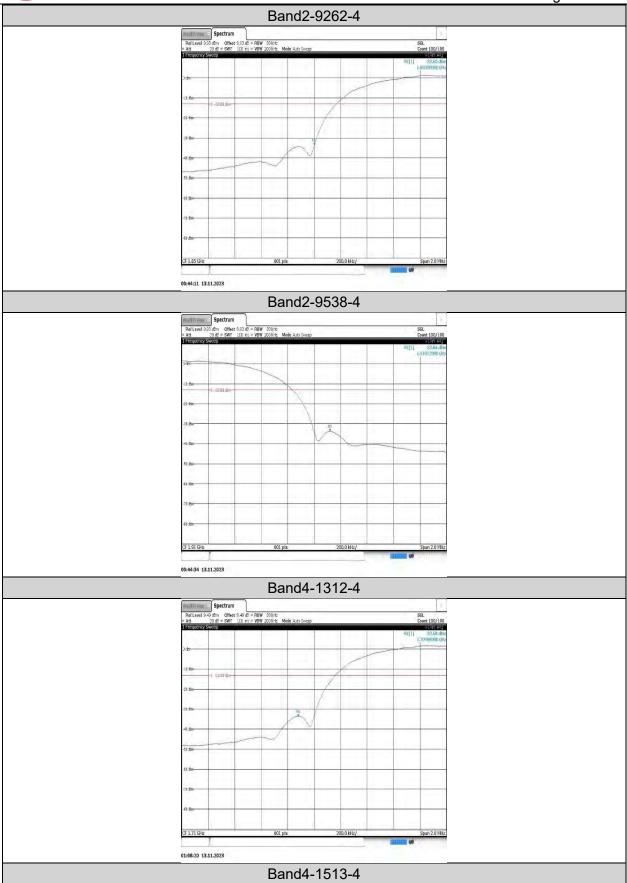


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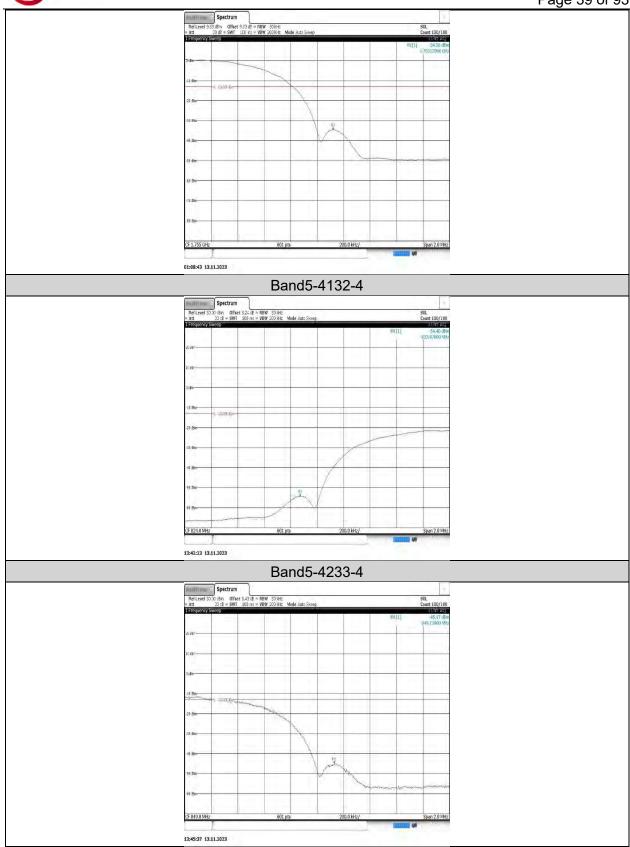


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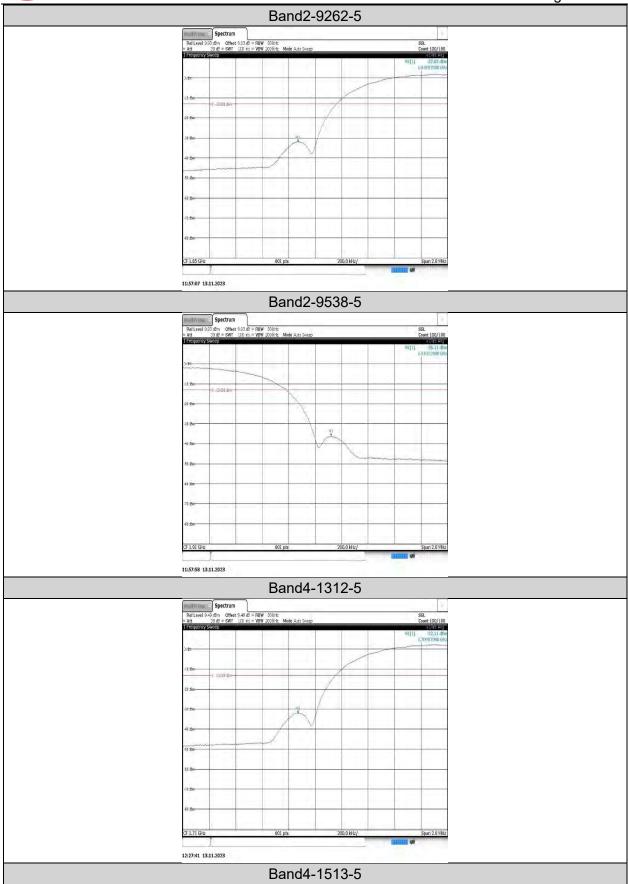


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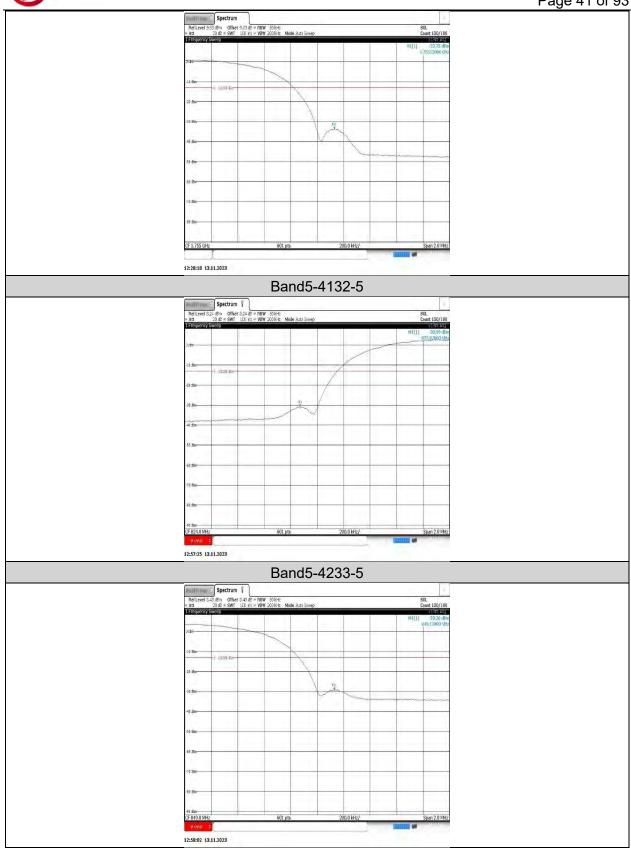


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## 8.5. AppendixE:Conducted SpuriousEmission 8.5.1. Test Result

| Band  | Channel | Fre             | equency Range<br>(Mhz)   | Frequency<br>(dBm) | Result<br>(dBm) | Limit<br>(dBm) | Verdict        |
|-------|---------|-----------------|--------------------------|--------------------|-----------------|----------------|----------------|
| Band2 | 9262    | 0.009~0.15MHz   |                          | 0.02               | -85.79          | -43            | PASS           |
| Band2 | 9262    | 0.15~30MHz      |                          | 17.09              | -68.13          | -23            | PASS           |
| Band2 | 9262    | 30~1000MHz      |                          | 972.99             | -44.86          | -13            | PASS           |
| Band2 | 9262    |                 | 0~20000MHz               | 7043.9             | -36.65          | -13            | PASS           |
| Band2 | 9400    |                 | 09~0.15MHz               | 0.01               | -87.1           | -43            | PASS           |
| Band2 | 9400    |                 | .15~30MHz                | 6.33               | -67.79          | -23            | PASS           |
| Band2 | 9400    | 30~1000MHz      |                          | 859.5              | -45.43          | -13            | PASS           |
| Band2 | 9400    | 100             | 0~20000MHz               | 7969.2             | -36.62          | -13            | PASS           |
| Band2 | 9538    |                 | 09~0.15MHz               | 0.01               | -84.55          | -43            | PASS           |
| Band2 | 9538    |                 | .15~30MHz                | 0.31               | -67.95          | -23            | PASS           |
| Band2 | 9538    |                 | 0~1000MHz                | 954.33             | -45.14          | -13            | PASS           |
| Band2 | 9538    |                 | 0~20000MHz               | 7190.2             | -37.47          | -13            | PASS           |
| Band4 | 1312    |                 | 09~0.15MHz               | 0.01               | -85.99          | -43            | PASS           |
| Band4 | 1312    |                 | .15~30MHz                | 9.35               | -69.01          | -23            | PASS           |
| Band4 | 1312    |                 | 0~1000MHz                | 957.11             | -45.75          | -13            | PASS           |
| Band4 | 1312    |                 | 0~20000MHz               | 7121.8             | -36.95          | -13            | PASS           |
| Band4 | 1413    |                 | 09~0.15MHz               | 0.03               | -86.91          | -43            | PASS           |
| Band4 | 1413    |                 | .15~30MHz                | 3.34               | -69.03          | -23            | PASS           |
| Band4 | 1413    |                 | 0~1000MHz                | 818.6              | -45.42          | -13            | PASS           |
| Band4 | 1413    | -               | 0~20000MHz               | 7889.4             | -37.16          | -13            | PASS           |
| Band4 | 1513    |                 | 009~0.15MHz              | 0.01               | -86.46          | -43            | PASS           |
| Band4 | 1513    |                 | .15~30MHz                | 1.15               | -68.71          | -23            | PASS           |
| Band4 | 1513    |                 | 0~1000MHz                | 559.65             | -45.64          | -13            | PASS           |
| Band4 | 1513    |                 | 0~20000MHz               | 7928.67            | -36.96          | -13            | PASS           |
| Band5 | 4132    |                 | 09~0.15MHz               | 0.01               | -85.67          | -33            | PASS           |
| Band5 | 4132    |                 | .15~30MHz                | 9.73               | -69.27          | -13            | PASS           |
| Band5 | 4132    | 30~1000MHz      |                          | 642.17             | -54.38          | -13            | PASS           |
| Band5 | 4132    | 1000~10000MHz   |                          | 7082.15            | -38.93          | -13            | PASS           |
| Band5 | 4182    | 0.009~0.15MHz   |                          | 0.02               | -86.54          | -33            | PASS           |
| Band5 | 4182    | 0.15~30MHz      |                          | 2.3                | -68.68          | -13            | PASS           |
| Band5 | 4182    | 30~1000MHz      |                          | 609.12             | -54.6           | -13            | PASS           |
| Band5 | 4182    | 1000~10000MHz   |                          | 7186.24            | -38.69          | -13            | PASS           |
| Band5 | 4233    | 0.009~0.15MHz   |                          | 0.01               | -85.41          | -33            | PASS           |
| Band5 | 4233    | 0.15~30MHz      |                          | 14.07              | -68.29          | -13            | PASS           |
| Band5 | 4233    | 30~1000MHz      |                          | 547.53             | -53.72          | -13            | PASS           |
| Band5 | 4233    | 100             | 1000~10000MHz            |                    | -38.88          | -13            | PASS           |
|       |         | •               |                          | 7078.85            |                 | •              |                |
| Band  | Channel | SubTest         | Frequency Range<br>(Mhz) | Frequency<br>(dBm) | Result<br>(dBm) | Limit<br>(dBm) | Verdict        |
| Band2 | 9262    | 4               | 0.15~30MHz               | 1.67               | -68.42          | -23            | PASS           |
| Band2 | 9262    | 4               | 30~1000MHz               | 549.43             | -45.05          | -13            | PASS           |
| Band2 | 9262    | 4               | 1000~20000MHz            | 7904.6             | -36.9           | -13            | PASS           |
| Band2 | 9262    | 4               | 0.009~0.15MHz            | 0.01               | -86.49          | -43            | PASS           |
| Band2 | 9400    | 4 0.009~0.15MHz |                          | 0.01               | -86.95          | -43            | PASS           |
| Band2 | 9400    | 4 0.15~30MHz    |                          | 0.3                | -67.84          | -23            | PASS           |
| Band2 | 9400    | 4 30~1000MHz    |                          | 455.32             | -45.14          | -13            | PASS           |
|       | 0.100   |                 | 4000 00000               | 7404 00            | 07.11           | 10             | <b>D</b> 1 0 C |

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7124.33

-37.11

-13

PASS

1000~20000MHz

9400

4

Band2



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| Band2 9538 4 0.009~0.15MHz 0.01 -86.09 -43 PASS   Band2 9538 4 1000~2000MHz 7013.5 -36.87 -13 PASS   Band2 9538 4 0.15~30MHz 2.27 -68.46 -23 PASS   Band2 9538 4 30~1000MHz 962.28 -45.42 -13 PASS   Band4 1312 4 0.009~0.15MHz 0.01 -86.47 -43 PASS   Band4 1312 4 0.15~30MHz 27.74 -69.13 -23 PASS   Band4 1312 4 1000~20000MHz 905.25 -45.38 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 0.009~0.00MHz 558.42 -45.23 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS  |       |      |   | Page          | 43 01 93 |        |     |      |
|---|-------|------|---|---------------|----------|--------|-----|------|
| Band2 9538 4 0.15~30MHz 2.27 -68.46 -23 PASS   Band2 9538 4 30~1000MHz 962.28 -45.42 -13 PASS   Band4 1312 4 0.009~0.15MHz 0.01 -86.47 -43 PASS   Band4 1312 4 0.15~30MHz 27.74 -69.13 -23 PASS   Band4 1312 4 30~1000MHz 905.25 -45.38 -13 PASS   Band4 1312 4 1000~20000MHz 7102.8 -36.54 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 30~1000MHz 558.42 -45.23 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band   | Band2 | 9538 | 4 | 0.009~0.15MHz | 0.01     | -86.09 | -43 | PASS |
| Band2 9538 4 30~1000MHz 962.28 -45.42 -13 PASS   Band4 1312 4 0.009~0.15MHz 0.01 -86.47 -43 PASS   Band4 1312 4 0.15~30MHz 27.74 -69.13 -23 PASS   Band4 1312 4 30~1000MHz 905.25 -45.38 -13 PASS   Band4 1312 4 1000~20000MHz 7102.8 -36.54 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 0.007~20000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS  | Band2 | 9538 | 4 | 1000~20000MHz | 7013.5   | -36.87 | -13 | PASS |
| Band4 1312 4 0.009~0.15MHz 0.01 -86.47 -43 PASS   Band4 1312 4 0.15~30MHz 27.74 -69.13 -23 PASS   Band4 1312 4 30~1000MHz 905.25 -45.38 -13 PASS   Band4 1312 4 1000~20000MHz 7102.8 -36.54 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 0.00~20000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1413 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 0.009~0.15MHz 0.55 -68.01 -23 PASS  | Band2 | 9538 | 4 | 0.15~30MHz    | 2.27     | -68.46 | -23 | PASS |
| Band4 1312 4 0.15~30MHz 27.74 -69.13 -23 PASS   Band4 1312 4 30~1000MHz 905.25 -45.38 -13 PASS   Band4 1312 4 1000~20000MHz 7102.8 -36.54 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 0.007~20000MHz 558.42 -45.23 -13 PASS   Band4 1413 4 1000~20000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.15~30MHz 0.01 -87.3 -43 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 0.007000MHz 7131.3 -36.64 -13 PASS <t< td=""><td>Band2</td><td>9538</td><td>4</td><td>30~1000MHz</td><td>962.28</td><td>-45.42</td><td>-13</td><td>PASS</td></t<>   | Band2 | 9538 | 4 | 30~1000MHz    | 962.28   | -45.42 | -13 | PASS |
| Band4 1312 4 30~1000MHz 905.25 -45.38 -13 PASS   Band4 1312 4 1000~20000MHz 7102.8 -36.54 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 30~1000MHz 558.42 -45.23 -13 PASS   Band4 1413 4 30~1000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.15~30MHz 0.01 -87.3 -43 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 30~1000MHz 976.54 -45.69 -13 PASS   Band5 4132 4 30~1000MHz 7027.85 -38.85 -13 PASS   Band   | Band4 | 1312 | 4 | 0.009~0.15MHz | 0.01     | -86.47 | -43 | PASS |
| Band4 1312 4 1000~20000MHz 7102.8 -36.54 -13 PASS   Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 30~1000MHz 558.42 -45.23 -13 PASS   Band4 1413 4 1000~20000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.009~0.15MHz 0.01 -87.3 -43 PASS   Band4 1513 4 0.15~30MHz 0.055 -68.01 -23 PASS   Band4 1513 4 30~1000MHz 976.54 -45.69 -13 PASS   Band4 1513 4 1000~20000MHz 7131.3 -36.64 -13 PASS   Band5 4132 4 30~1000MHz 553.99 -54.55 -13 PASS   | Band4 | 1312 | 4 | 0.15~30MHz    | 27.74    | -69.13 | -23 | PASS |
| Band4 1413 4 0.15~30MHz 14.08 -68.18 -23 PASS   Band4 1413 4 30~1000MHz 558.42 -45.23 -13 PASS   Band4 1413 4 1000~20000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.009~0.15MHz 0.01 -87.3 -43 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 0.00~1000MHz 976.54 -45.69 -13 PASS   Band5 4132 4 30~1000MHz 553.99 -54.55 -13 PASS   Band5 4132 4 0.00~10000MHz 7027.85 -38.85 -13 PASS <t< td=""><td>Band4</td><td>1312</td><td>4</td><td>30~1000MHz</td><td>905.25</td><td>-45.38</td><td>-13</td><td>PASS</td></t<>   | Band4 | 1312 | 4 | 30~1000MHz    | 905.25   | -45.38 | -13 | PASS |
| Band4 1413 4 30~1000MHz 558.42 -45.23 -13 PASS   Band4 1413 4 1000~20000MHz 6931.8 -36.77 -13 PASS   Band4 1413 4 0.009~0.15MHz 0.08 -86.64 -43 PASS   Band4 1513 4 0.009~0.15MHz 0.01 -87.3 -43 PASS   Band4 1513 4 0.15~30MHz 0.55 -68.01 -23 PASS   Band4 1513 4 30~1000MHz 976.54 -45.69 -13 PASS   Band4 1513 4 30~1000MHz 976.54 -45.69 -13 PASS   Band4 1513 4 30~1000MHz 7131.3 -36.64 -13 PASS   Band5 4132 4 30~10000MHz 553.99 -54.55 -13 PASS   Band5 4132 4 0.15~30MHz 0.2 -68.74 -13 PASS   Ban   | Band4 | 1312 | 4 | 1000~20000MHz | 7102.8   | -36.54 | -13 | PASS |
| Band4141341000~20000MHz6931.8-36.77-13PASSBand4141340.009~0.15MHz0.08-86.64-43PASSBand4151340.009~0.15MHz0.01-87.3-43PASSBand4151340.15~30MHz0.55-68.01-23PASSBand41513430~1000MHz976.54-45.69-13PASSBand4151341000~20000MHz7131.3-36.64-13PASSBand4151341000~20000MHz755.99-54.55-13PASSBand54132430~1000MHz553.99-54.55-13PASSBand5413240.009~0.15MHz0.2-68.74-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.15~30MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.02-86.94-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASS<   | Band4 | 1413 | 4 | 0.15~30MHz    | 14.08    | -68.18 | -23 | PASS |
| Band4141340.009~0.15MHz0.08-86.64-43PASSBand4151340.009~0.15MHz0.01-87.3-43PASSBand4151340.15~30MHz0.55-68.01-23PASSBand41513430~1000MHz976.54-45.69-13PASSBand4151341000~20000MHz7131.3-36.64-13PASSBand4151341000~20000MHz7131.3-36.64-13PASSBand54132430~1000MHz553.99-54.55-13PASSBand5413241000~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.02-86.94-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.89-13PASSBand5423340.009~0.15MHz0.01-86.31-33   | Band4 | 1413 | 4 | 30~1000MHz    | 558.42   | -45.23 | -13 | PASS |
| Band4151340.009~0.15MHz0.01-87.3-43PASSBand4151340.15~30MHz0.55-68.01-23PASSBand41513430~1000MHz976.54-45.69-13PASSBand4151341000~20000MHz7131.3-36.64-13PASSBand54132430~1000MHz553.99-54.55-13PASSBand5413241000~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.02-86.94-33PASSBand5418240.009~0.15MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.89-13PASSBand5423340.009~0.15MHz0.01-86.31-33P   | Band4 | 1413 | 4 | 1000~20000MHz | 6931.8   | -36.77 | -13 | PASS |
| Band4151340.15~30MHz0.55-68.01-23PASSBand41513430~1000MHz976.54-45.69-13PASSBand4151341000~20000MHz7131.3-36.64-13PASSBand54132430~1000MHz553.99-54.55-13PASSBand5413241000~10000MHz7027.85-38.85-13PASSBand5413240.00~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.02-86.94-33PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.25-68.89-13PASSBand5423340.15~30MHz0.25-68.89-13 <t< td=""><td>Band4</td><td>1413</td><td>4</td><td>0.009~0.15MHz</td><td>0.08</td><td>-86.64</td><td>-43</td><td>PASS</td></t<> | Band4 | 1413 | 4 | 0.009~0.15MHz | 0.08     | -86.64 | -43 | PASS |
| Band41513430~1000MHz976.54-45.69-13PASSBand4151341000~20000MHz7131.3-36.64-13PASSBand54132430~1000MHz553.99-54.55-13PASSBand5413241000~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.02-86.94-33PASSBand5418240.009~0.15MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.15~30MHz0.25-68.89-13PASSBand5423340.15~30MHz0.25-68.89-13PASS  | Band4 | 1513 | 4 | 0.009~0.15MHz | 0.01     | -87.3  | -43 | PASS |
| Band4151341000~20000MHz7131.3-36.64-13PASSBand54132430~1000MHz553.99-54.55-13PASSBand5413241000~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.009~0.15MHz0.02-86.94-33PASSBand5418240.009~0.15MHz13.86-67.53-13PASSBand5418240.009~0.15MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.25-68.89-13PASS  | Band4 | 1513 | 4 | 0.15~30MHz    | 0.55     | -68.01 | -23 | PASS |
| Band54132430~1000MHz553.99-54.55-13PASSBand5413241000~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.15~30MHz13.86-67.53-13PASSBand54182430~1000MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.25-68.89-13PASSBand5423340.15~30MHz0.25-68.89-13PASS   | Band4 | 1513 | 4 | 30~1000MHz    | 976.54   | -45.69 | -13 | PASS |
| Band5413241000~10000MHz7027.85-38.85-13PASSBand5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand5418240.15~30MHz13.86-67.53-13PASSBand54182430~1000MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.25-68.89-13PASS   | Band4 | 1513 | 4 | 1000~20000MHz | 7131.3   | -36.64 | -13 | PASS |
| Band5413240.15~30MHz0.2-68.74-13PASSBand5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand54182430~1000MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423341000~10000MHz7158.64-38.74-13PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.15~30MHz0.25-68.89-13PASS  | Band5 | 4132 | 4 | 30~1000MHz    | 553.99   | -54.55 | -13 | PASS |
| Band5413240.009~0.15MHz0.02-86.94-33PASSBand5418240.15~30MHz13.86-67.53-13PASSBand54182430~1000MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.15~30MHz0.25-68.89-13PASS   | Band5 | 4132 | 4 | 1000~10000MHz | 7027.85  | -38.85 | -13 | PASS |
| Band5418240.15~30MHz13.86-67.53-13PASSBand54182430~1000MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423341000~10000MHz7158.64-38.74-13PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.15~30MHz0.25-68.89-13PASS  | Band5 | 4132 | 4 | 0.15~30MHz    | 0.2      | -68.74 | -13 | PASS |
| Band54182430~1000MHz529.81-54.04-13PASSBand5418241000~10000MHz7967.12-38.72-13PASSBand5418240.009~0.15MHz0.01-86.69-33PASSBand5423341000~10000MHz7158.64-38.74-13PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.15~30MHz0.25-68.89-13PASS  | Band5 | 4132 | 4 | 0.009~0.15MHz | 0.02     | -86.94 | -33 | PASS |
| Band5 4182 4 1000~10000MHz 7967.12 -38.72 -13 PASS   Band5 4182 4 0.009~0.15MHz 0.01 -86.69 -33 PASS   Band5 4233 4 1000~10000MHz 7158.64 -38.74 -13 PASS   Band5 4233 4 0.009~0.15MHz 0.01 -86.31 -33 PASS   Band5 4233 4 0.009~0.15MHz 0.01 -86.31 -33 PASS   Band5 4233 4 0.15~30MHz 0.25 -68.89 -13 PASS  | Band5 | 4182 | 4 | 0.15~30MHz    | 13.86    | -67.53 | -13 | PASS |
| Band5418240.009~0.15MHz0.01-86.69-33PASSBand5423341000~10000MHz7158.64-38.74-13PASSBand5423340.009~0.15MHz0.01-86.31-33PASSBand5423340.15~30MHz0.25-68.89-13PASS  | Band5 | 4182 | 4 | 30~1000MHz    | 529.81   | -54.04 | -13 | PASS |
| Band5 4233 4 1000~10000MHz 7158.64 -38.74 -13 PASS   Band5 4233 4 0.009~0.15MHz 0.01 -86.31 -33 PASS   Band5 4233 4 0.15~30MHz 0.25 -68.89 -13 PASS   | Band5 | 4182 | 4 | 1000~10000MHz | 7967.12  | -38.72 | -13 | PASS |
| Band5 4233 4 0.009~0.15MHz 0.01 -86.31 -33 PASS   Band5 4233 4 0.15~30MHz 0.25 -68.89 -13 PASS  | Band5 | 4182 | 4 | 0.009~0.15MHz | 0.01     | -86.69 | -33 | PASS |
| Band5 4233 4 0.15~30MHz 0.25 -68.89 -13 PASS  | Band5 | 4233 | 4 | 1000~10000MHz | 7158.64  | -38.74 | -13 | PASS |
|   | Band5 | 4233 | 4 | 0.009~0.15MHz | 0.01     | -86.31 | -33 | PASS |
| Band5 4233 4 30~1000MHz 534.46 -54.71 -13 PASS  | Band5 | 4233 | 4 | 0.15~30MHz    | 0.25     | -68.89 | -13 | PASS |
|   | Band5 | 4233 | 4 | 30~1000MHz    | 534.46   | -54.71 | -13 | PASS |

| Band  | Channel | SubTest | Frequency Range<br>(Mhz) | Frequency<br>(dBm) | Result<br>(dBm) | Limit<br>(dBm) | Verdict |
|-------|---------|---------|--------------------------|--------------------|-----------------|----------------|---------|
| Band2 | 9262    | 5       | 0.15~30MHz               | 10.46              | -68.33          | -23            | PASS    |
| Band2 | 9262    | 5       | 30~1000MHz               | 668.42             | -45.55          | -13            | PASS    |
| Band2 | 9262    | 5       | 1000~20000MHz            | 7017.93            | -37.45          | -13            | PASS    |
| Band2 | 9262    | 5       | 0.009~0.15MHz            | 0.02               | -86.44          | -43            | PASS    |
| Band2 | 9400    | 5       | 0.009~0.15MHz            | 0.02               | -86.52          | -43            | PASS    |
| Band2 | 9400    | 5       | 0.15~30MHz               | 0.54               | -68.06          | -23            | PASS    |
| Band2 | 9400    | 5       | 30~1000MHz               | 901.79             | -45.85          | -13            | PASS    |
| Band2 | 9400    | 5       | 1000~20000MHz            | 6974.23            | -37.23          | -13            | PASS    |
| Band2 | 9538    | 5       | 0.009~0.15MHz            | 0.01               | -85.2           | -43            | PASS    |
| Band2 | 9538    | 5       | 1000~20000MHz            | 6964.1             | -37.13          | -13            | PASS    |
| Band2 | 9538    | 5       | 0.15~30MHz               | 9.9                | -69.06          | -23            | PASS    |
| Band2 | 9538    | 5       | 30~1000MHz               | 965.36             | -45.33          | -13            | PASS    |
| Band4 | 1312    | 5       | 0.009~0.15MHz            | 0.02               | -87.09          | -43            | PASS    |
| Band4 | 1312    | 5       | 0.15~30MHz               | 6.03               | -69.21          | -23            | PASS    |
| Band4 | 1312    | 5       | 30~1000MHz               | 926.53             | -45.53          | -13            | PASS    |
| Band4 | 1312    | 5       | 1000~20000MHz            | 7913.47            | -37.25          | -13            | PASS    |
| Band4 | 1413    | 5       | 0.15~30MHz               | 6.61               | -68.82          | -23            | PASS    |
| Band4 | 1413    | 5       | 30~1000MHz               | 836.12             | -45.49          | -13            | PASS    |
| Band4 | 1413    | 5       | 1000~20000MHz            | 7032.5             | -37.63          | -13            | PASS    |
| Band4 | 1413    | 5       | 0.009~0.15MHz            | 0.02               | -85.11          | -43            | PASS    |



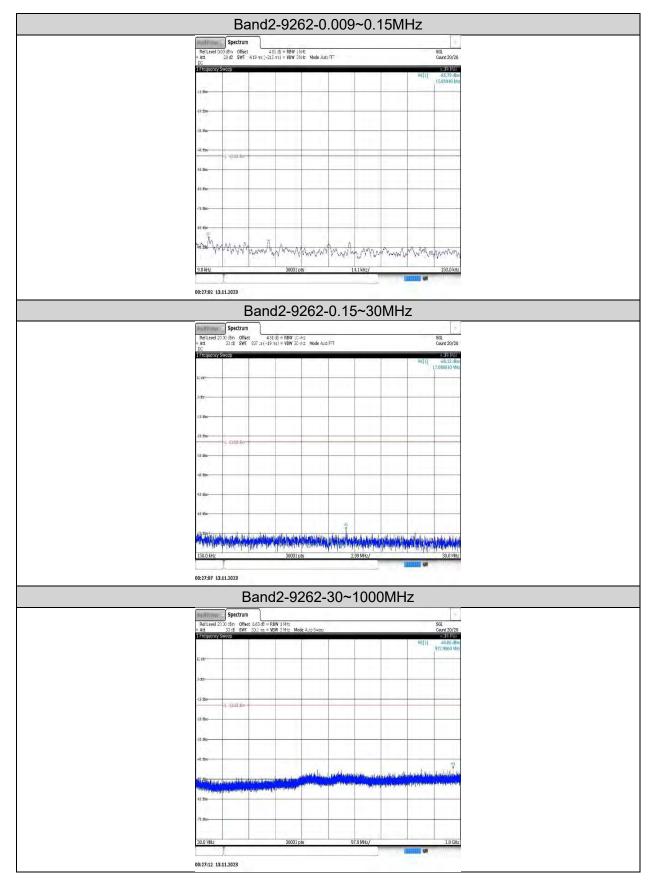
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|       |      |   |               |         |        | Page | 44 OT 93 |
|-------|------|---|---------------|---------|--------|------|----------|
| Band4 | 1513 | 5 | 0.009~0.15MHz | 0.01    | -86.59 | -43  | PASS     |
| Band4 | 1513 | 5 | 0.15~30MHz    | 0.29    | -69.3  | -23  | PASS     |
| Band4 | 1513 | 5 | 30~1000MHz    | 579.02  | -46.13 | -13  | PASS     |
| Band4 | 1513 | 5 | 1000~20000MHz | 6926.73 | -37.06 | -13  | PASS     |
| Band5 | 4132 | 5 | 30~1000MHz    | 489.97  | -54.8  | -13  | PASS     |
| Band5 | 4132 | 5 | 1000~10000MHz | 7085.45 | -38.61 | -13  | PASS     |
| Band5 | 4132 | 5 | 0.15~30MHz    | 0.31    | -68.13 | -13  | PASS     |
| Band5 | 4132 | 5 | 0.009~0.15MHz | 0.02    | -84.93 | -33  | PASS     |
| Band5 | 4182 | 5 | 0.15~30MHz    | 10.17   | -67.92 | -13  | PASS     |
| Band5 | 4182 | 5 | 30~1000MHz    | 548.63  | -53.53 | -13  | PASS     |
| Band5 | 4182 | 5 | 1000~10000MHz | 7046.45 | -39.07 | -13  | PASS     |
| Band5 | 4182 | 5 | 0.009~0.15MHz | 0.01    | -85.92 | -33  | PASS     |
| Band5 | 4233 | 5 | 1000~10000MHz | 7072.25 | -38.85 | -13  | PASS     |
| Band5 | 4233 | 5 | 0.009~0.15MHz | 0.02    | -85.23 | -33  | PASS     |
| Band5 | 4233 | 5 | 0.15~30MHz    | 0.49    | -68.47 | -13  | PASS     |
| Band5 | 4233 | 5 | 30~1000MHz    | 481.54  | -53.57 | -13  | PASS     |

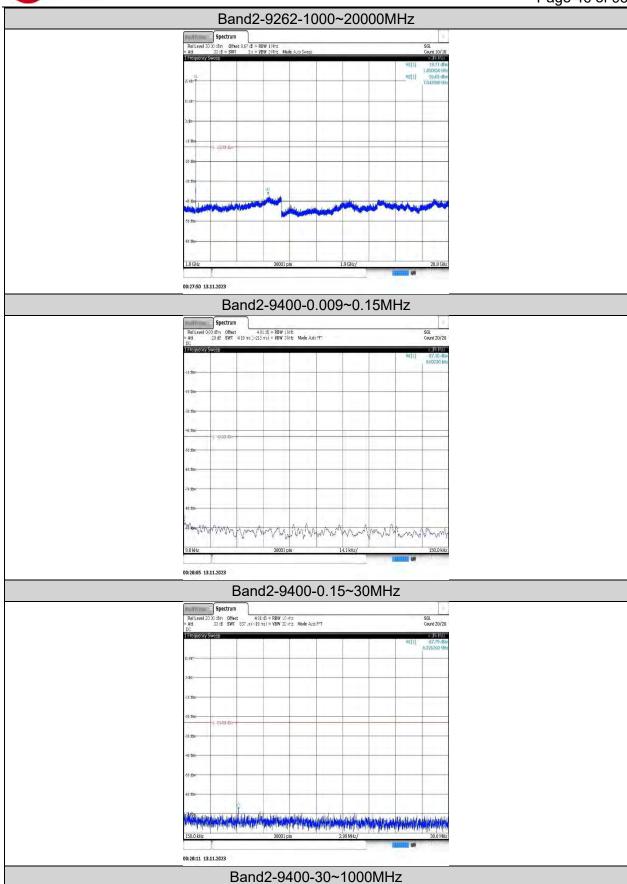




## 8.5.2. Test Graphs

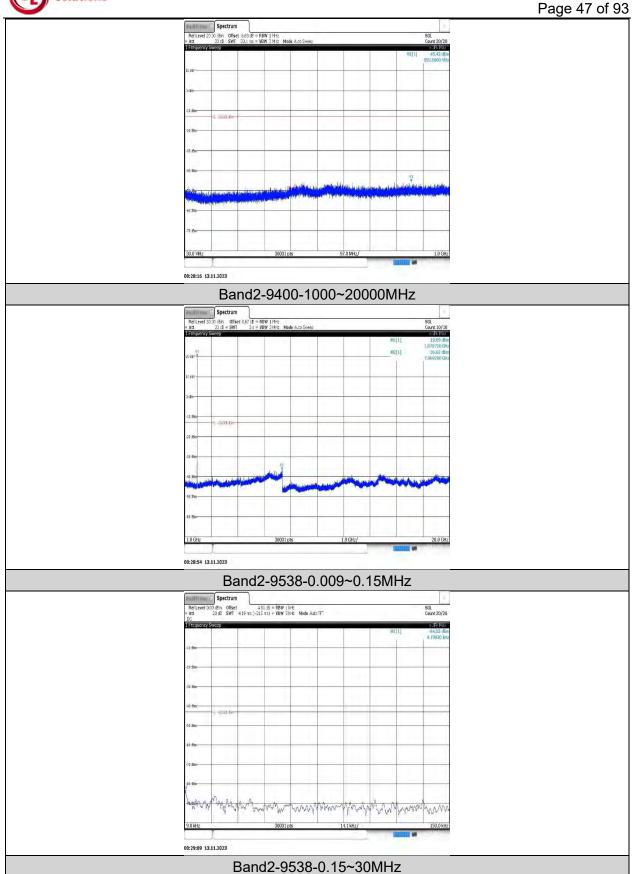






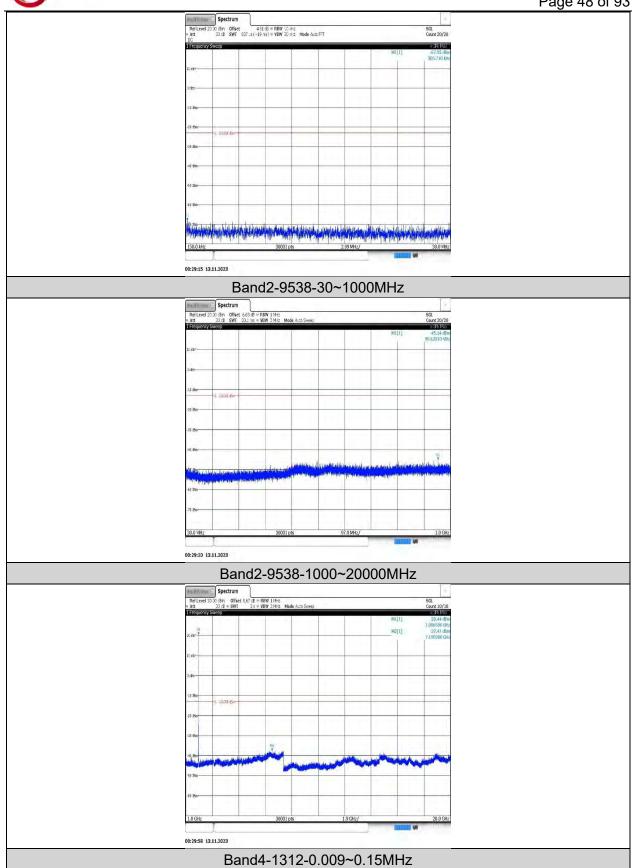


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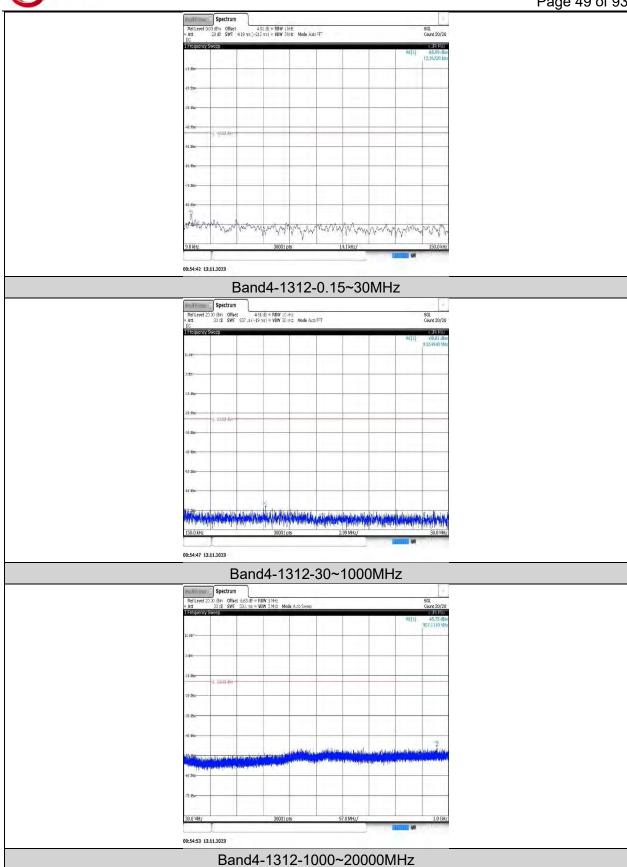


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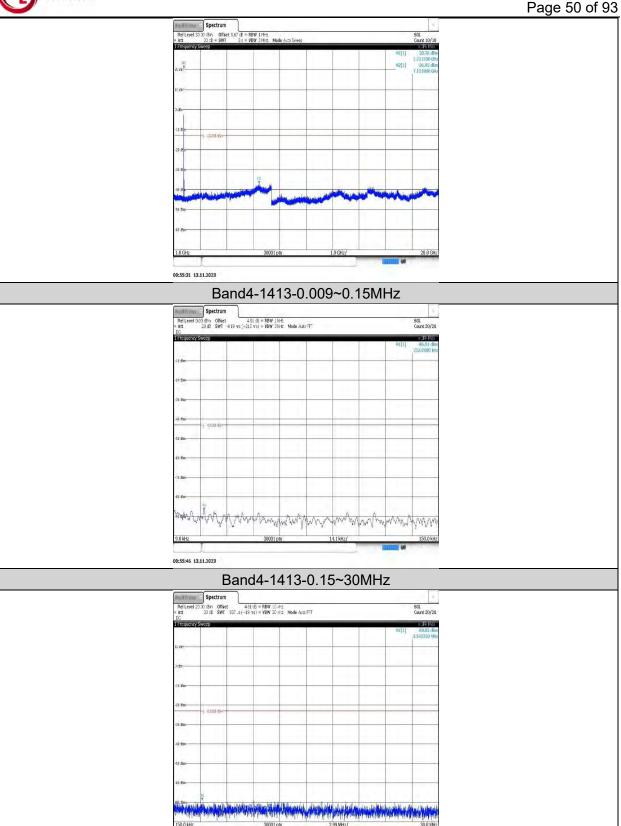


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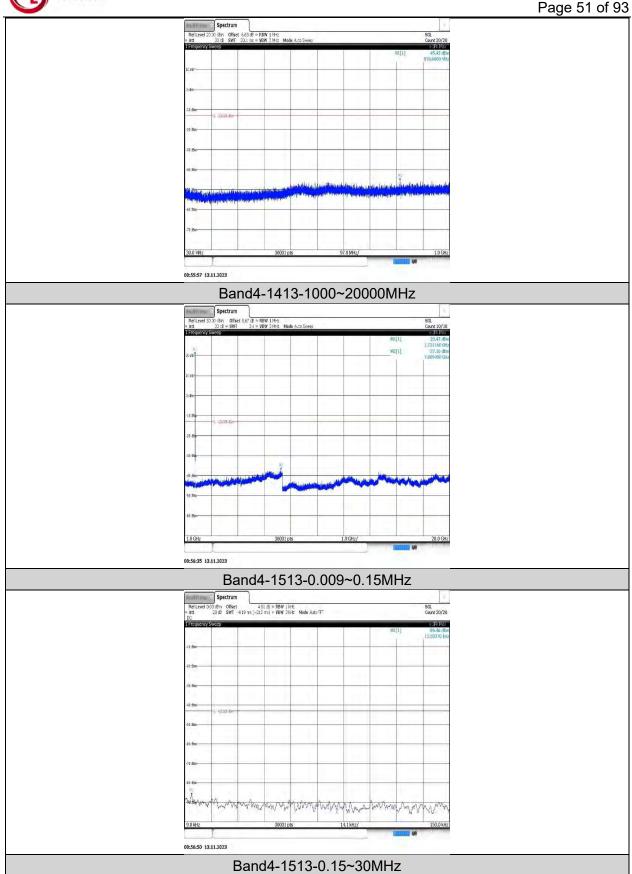


Band4-1413-30~1000MHz

00:55:51 13.11.2023

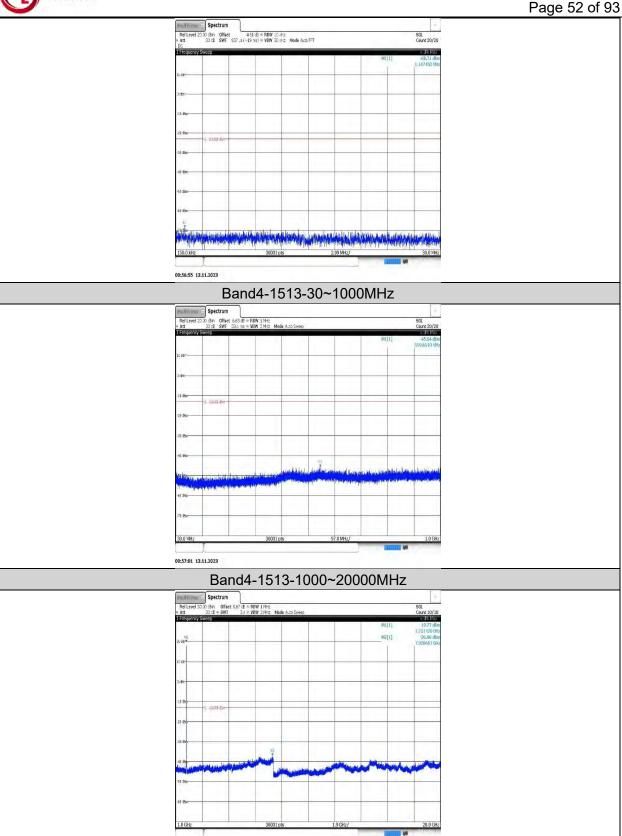


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# REPORT NO.: 4791041023-1-RF-7



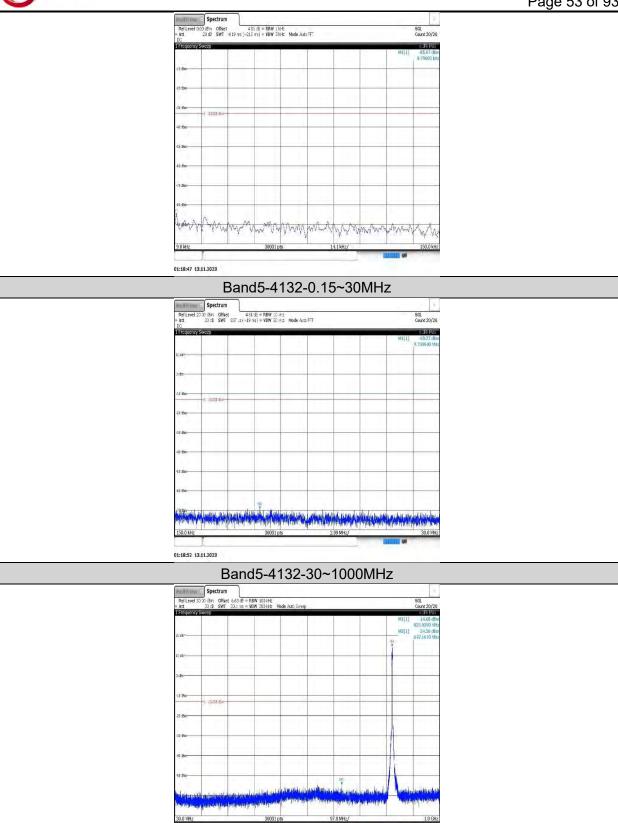
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Band5-4132-0.009~0.15MHz

00:57:39 13.11.2023



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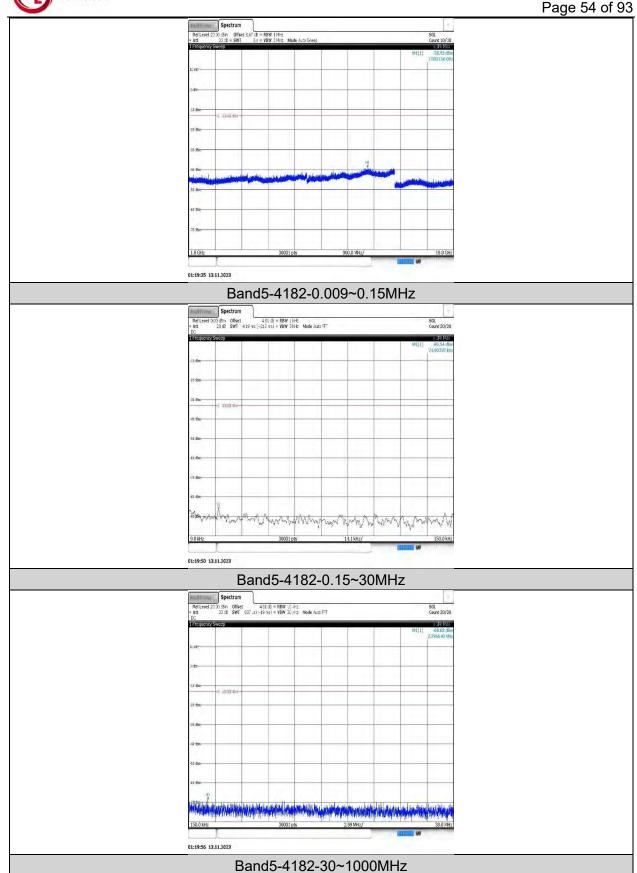
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Band5-4132-1000~10000MHz

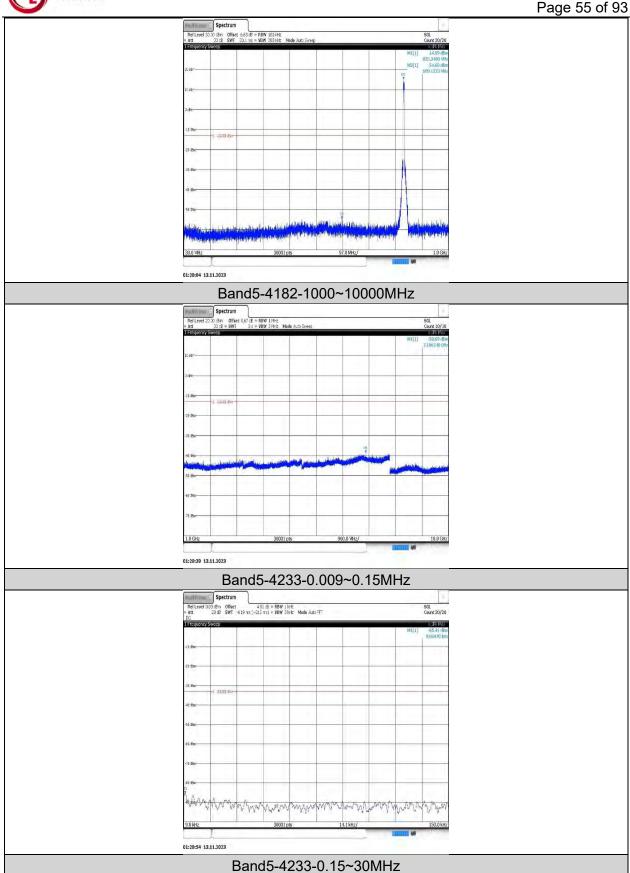
01:19:00 13.11.2023



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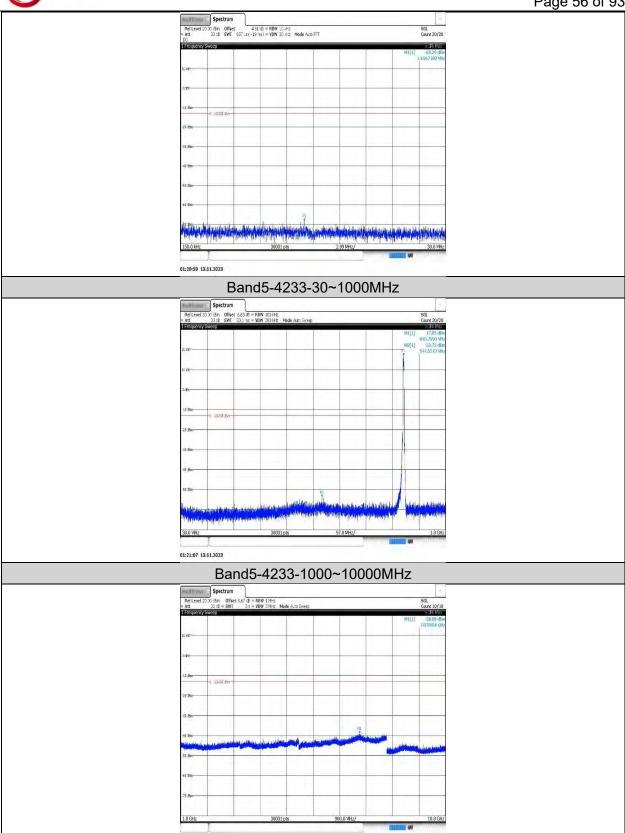




Solutions



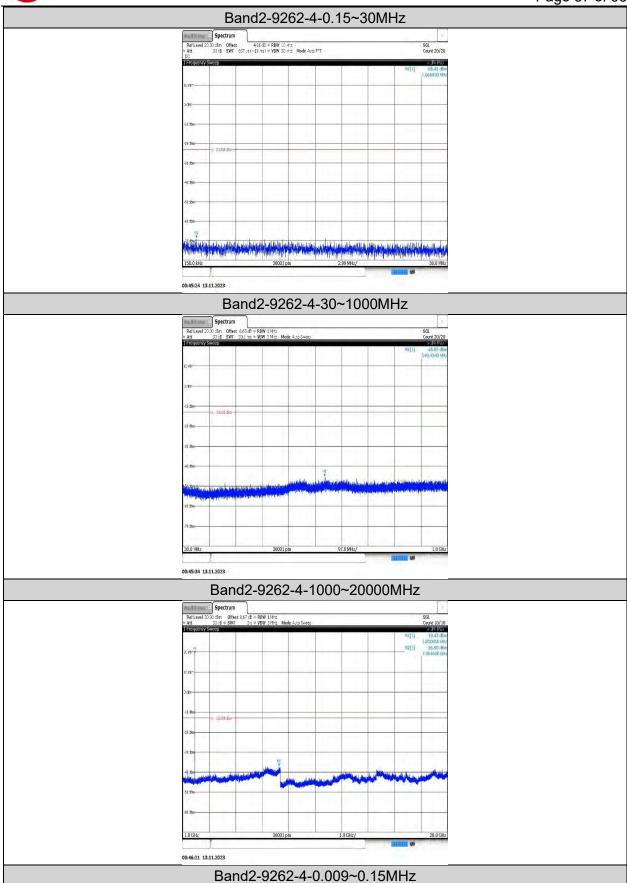
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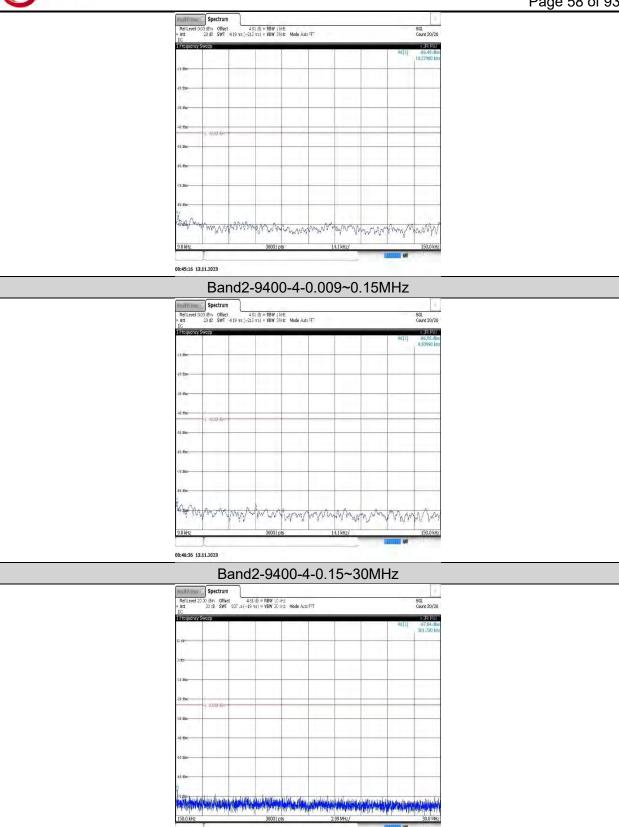
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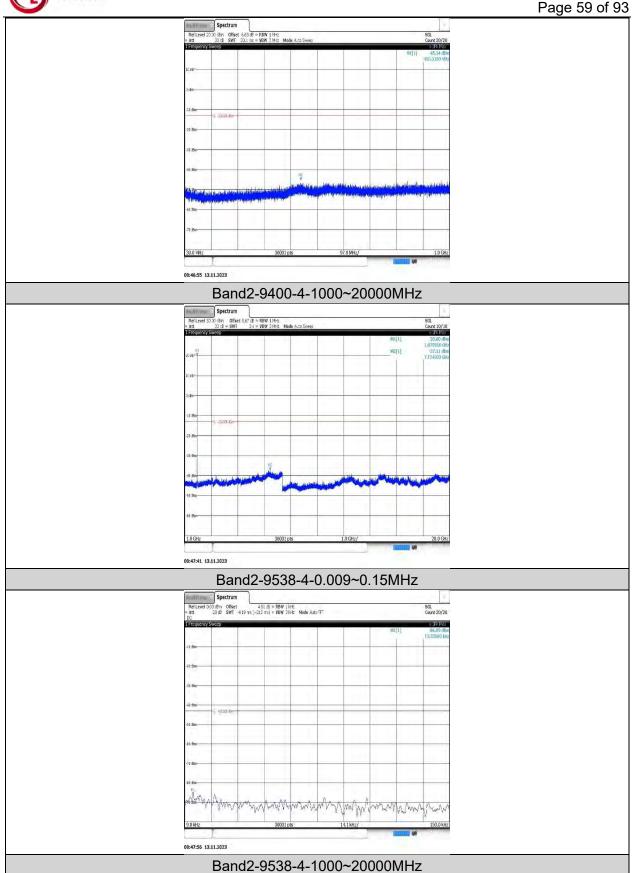
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Band2-9400-4-30~1000MHz

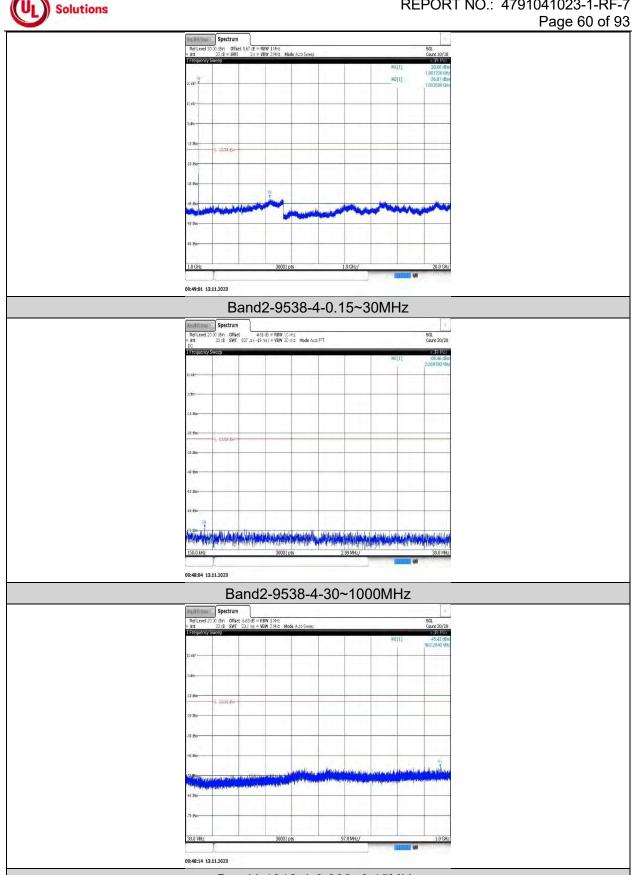
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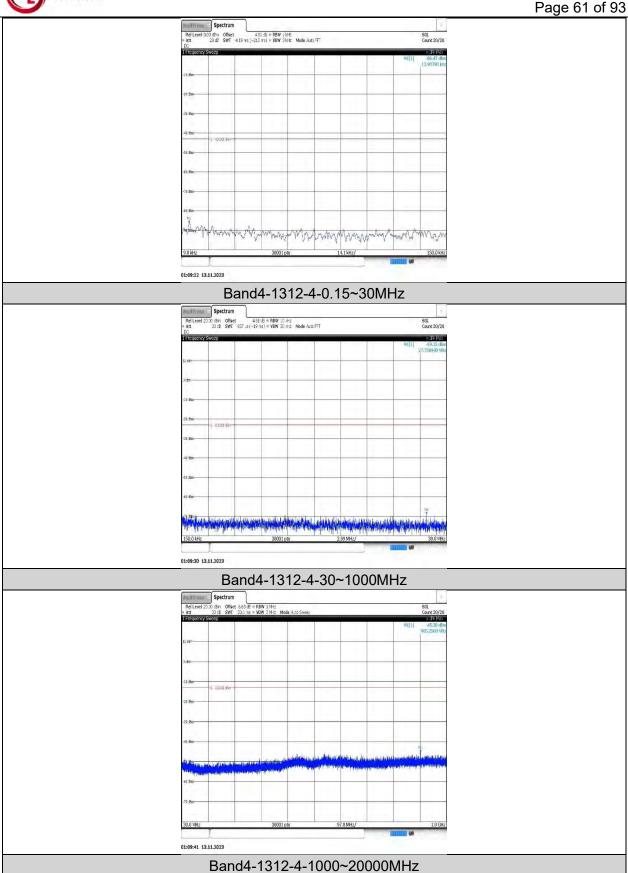




Band4-1312-4-0.009~0.15MHz

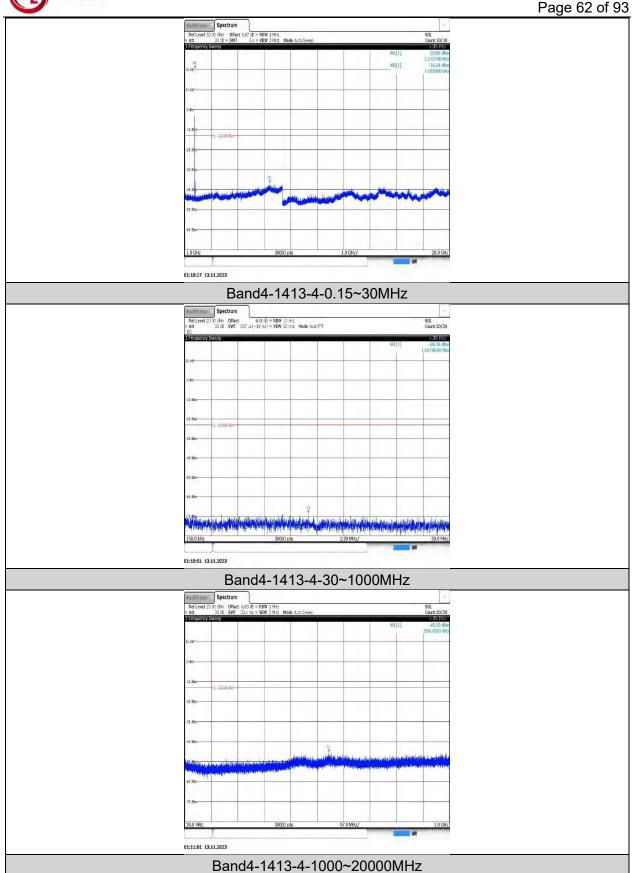


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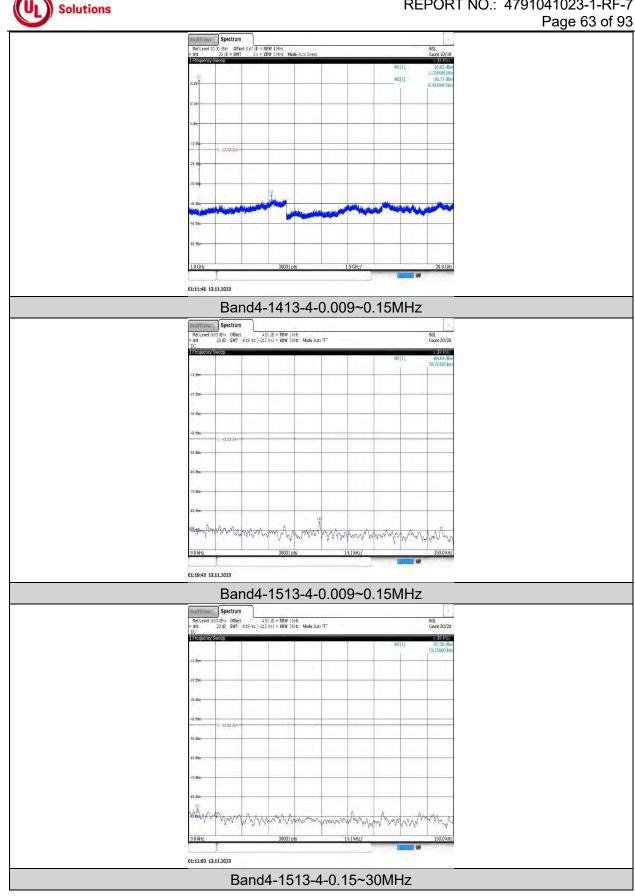




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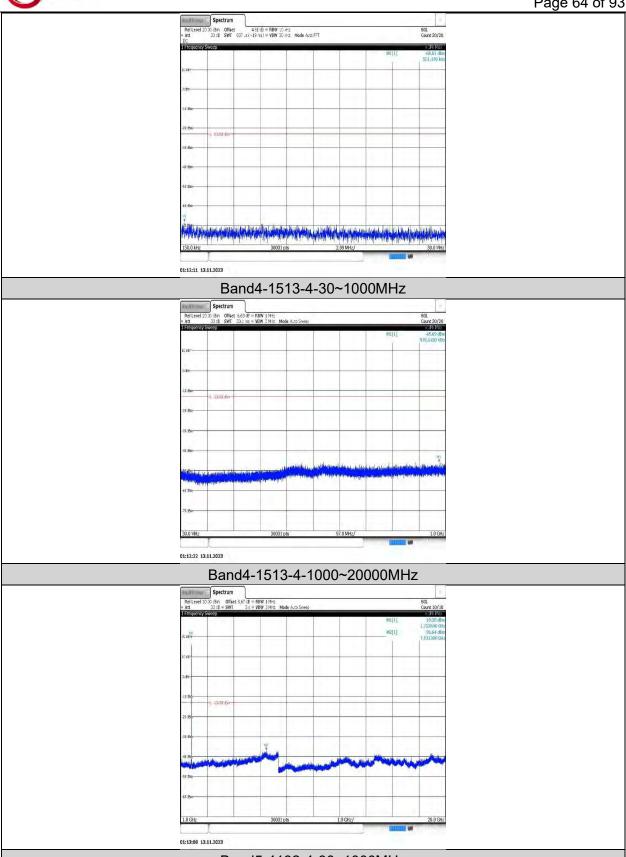




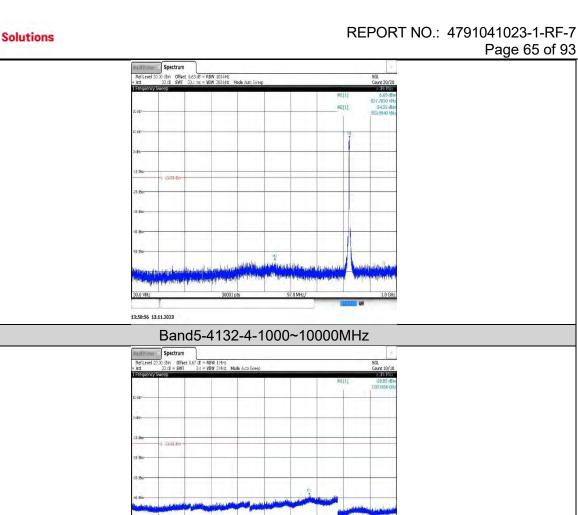


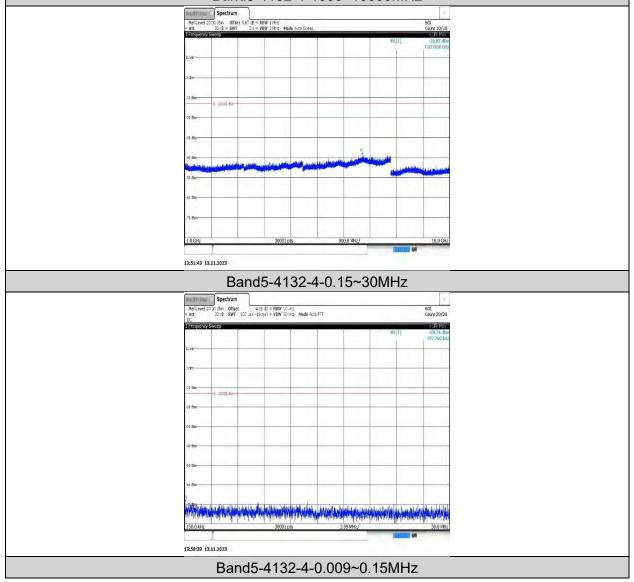


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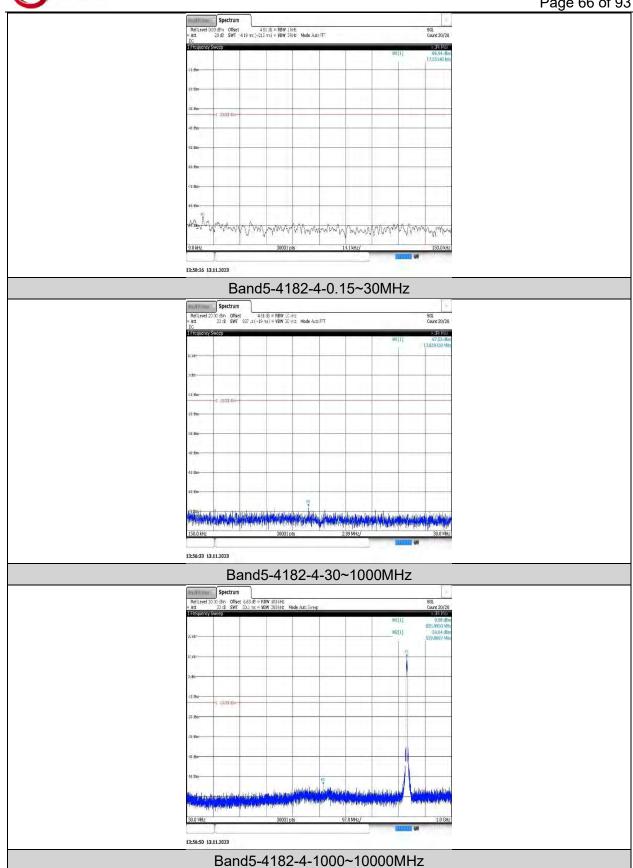
Band5-4132-4-30~1000MHz





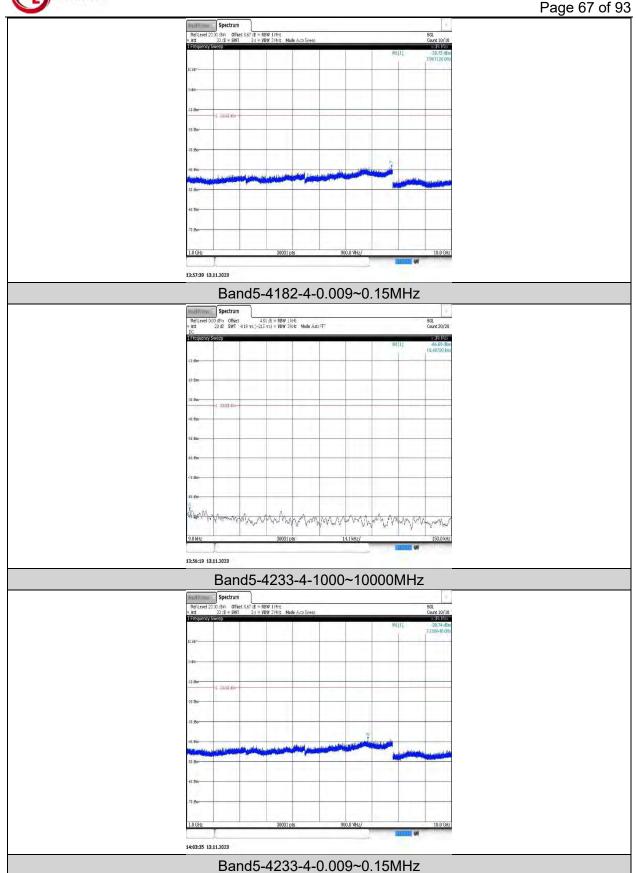


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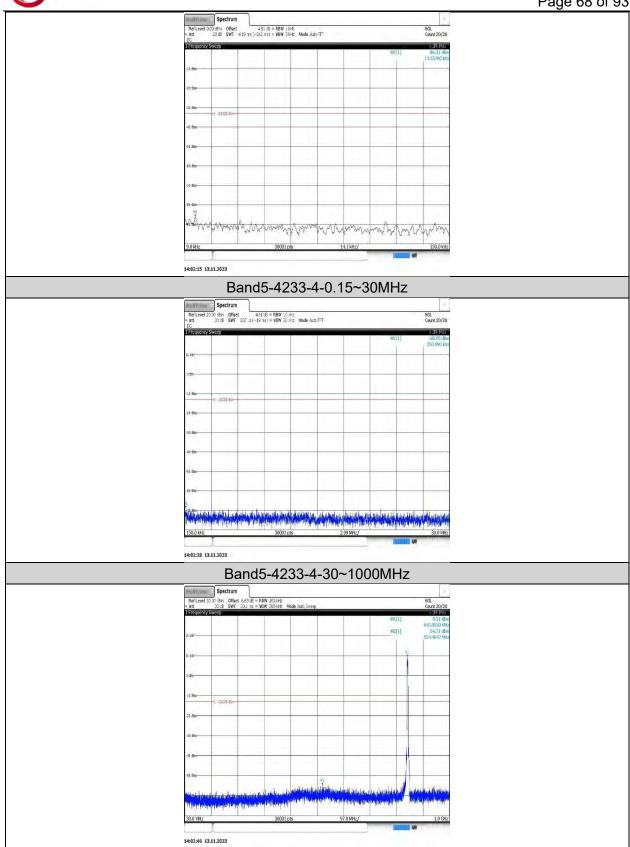


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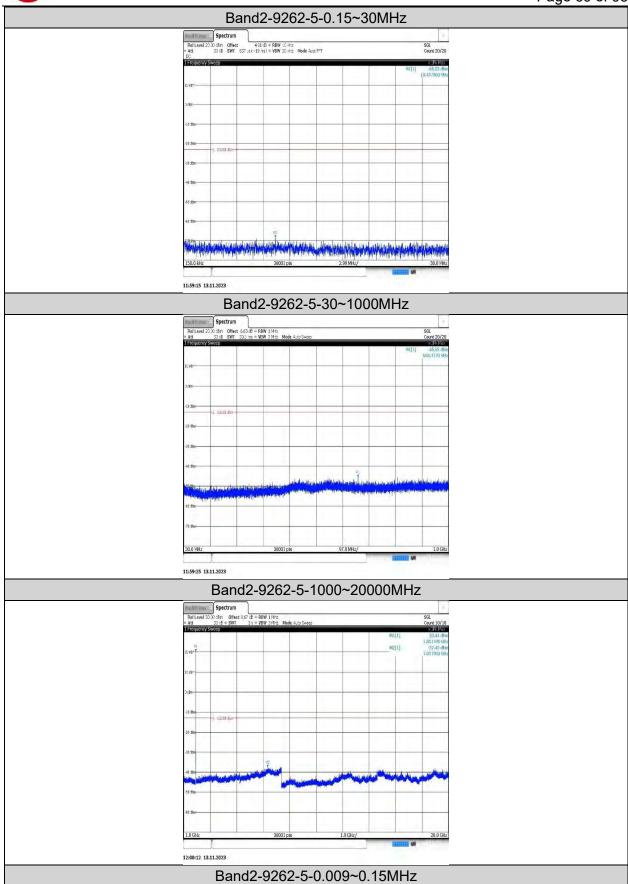




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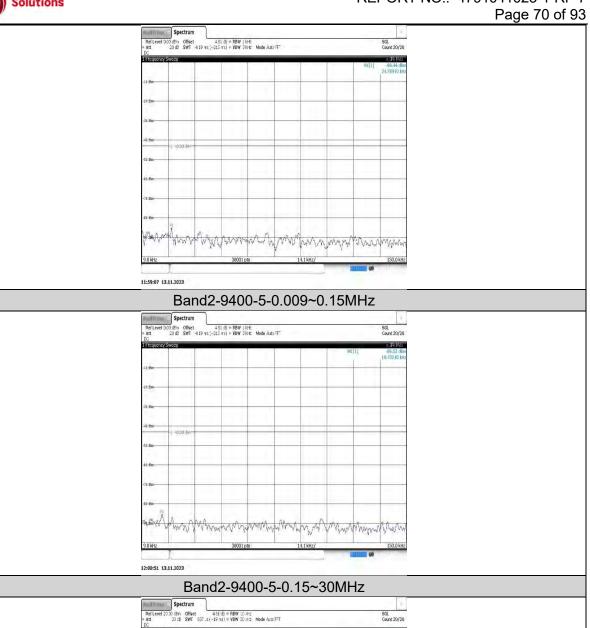


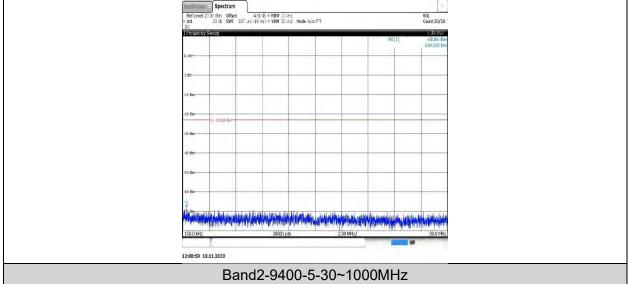






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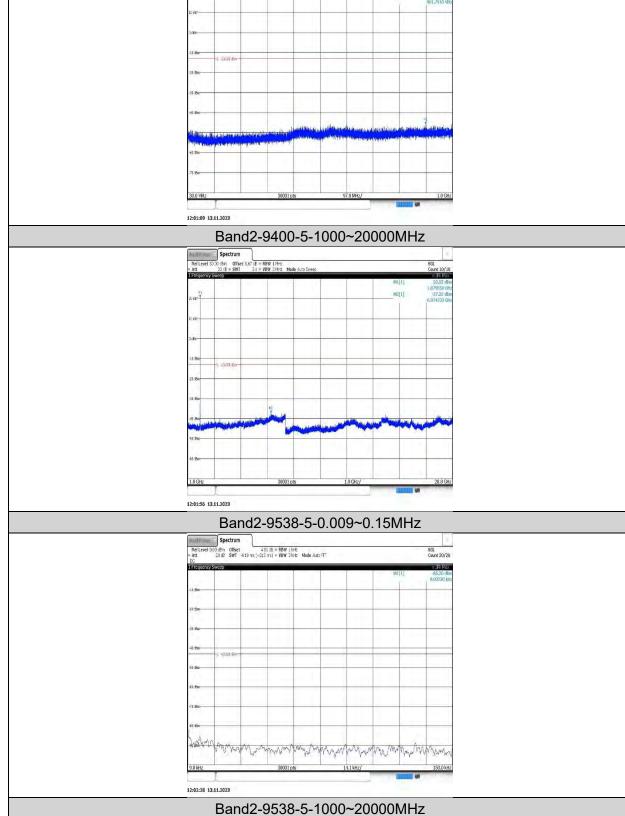






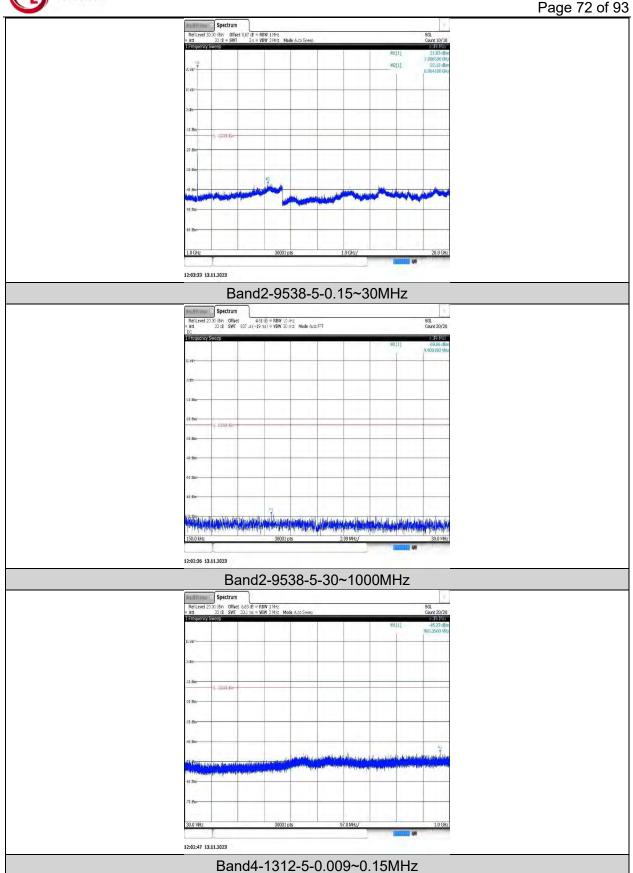
Spectrum 20.00 dBm Offset 30 cB SWT

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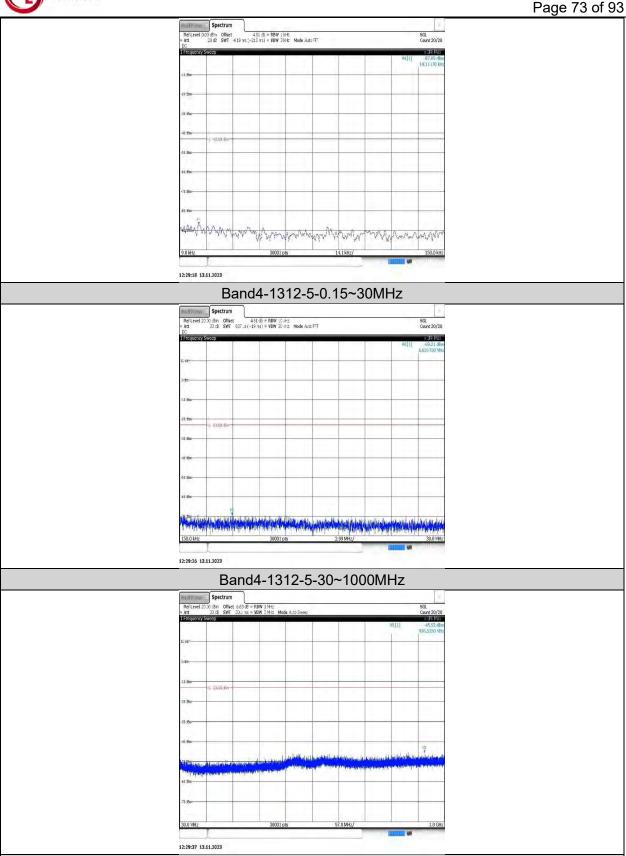


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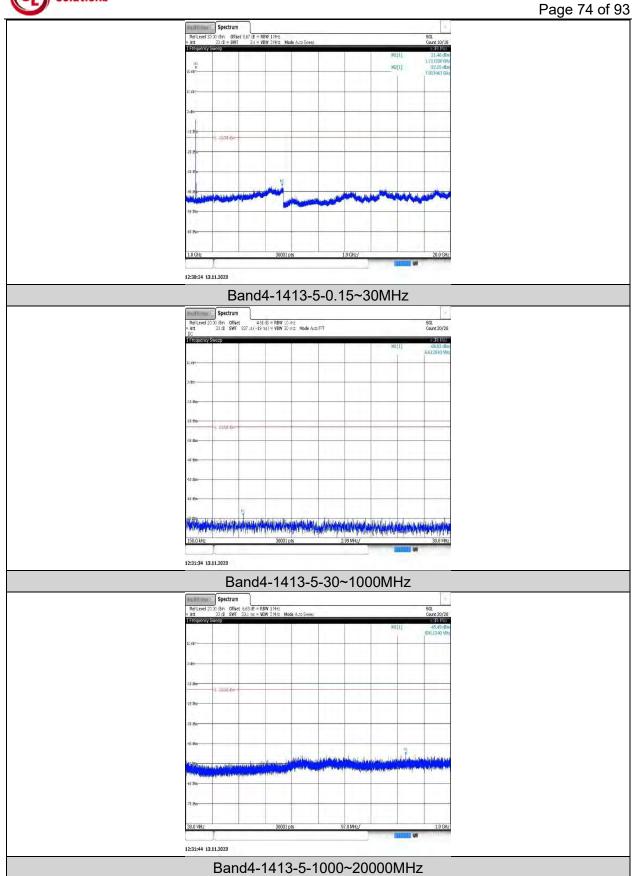
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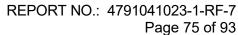


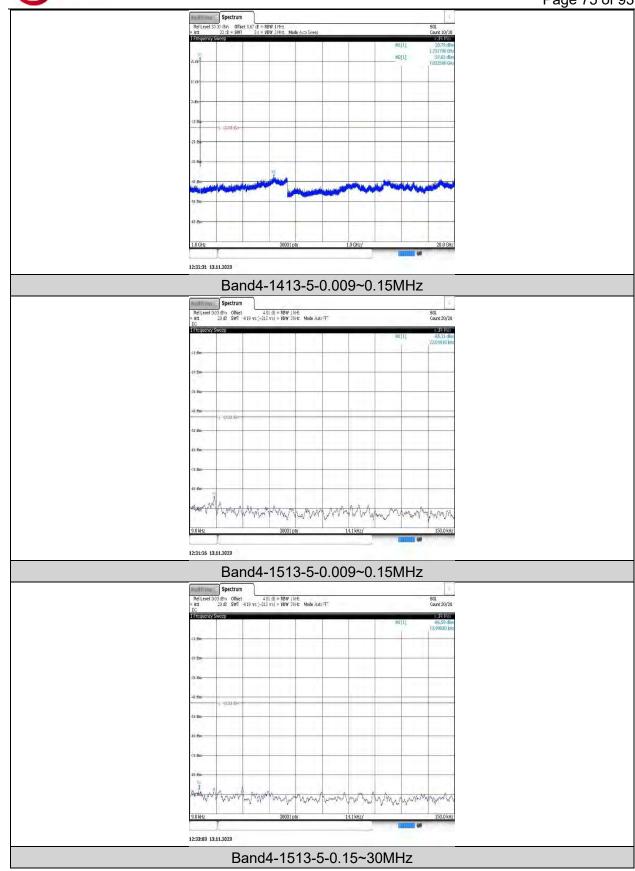
Band4-1312-5-1000~20000MHz



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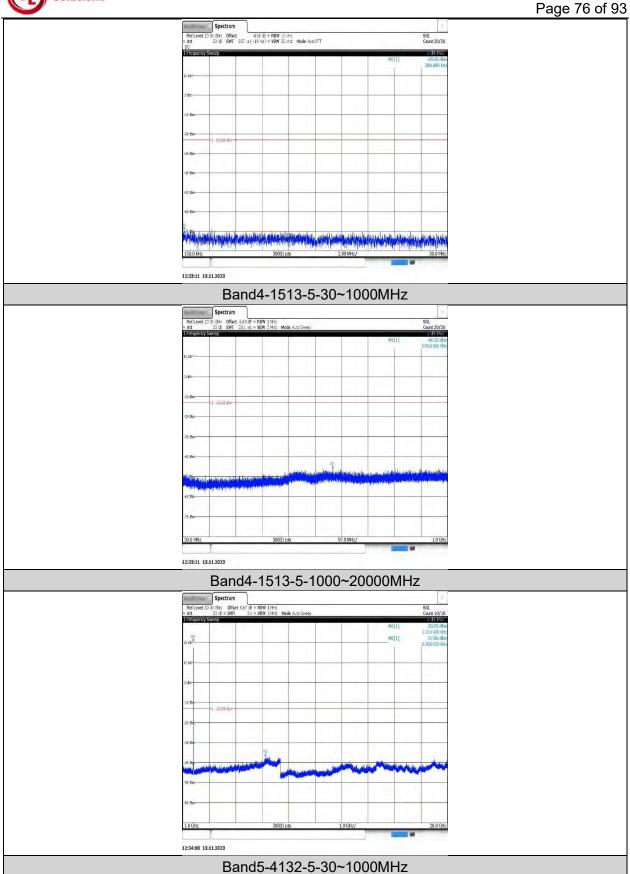




Solutions

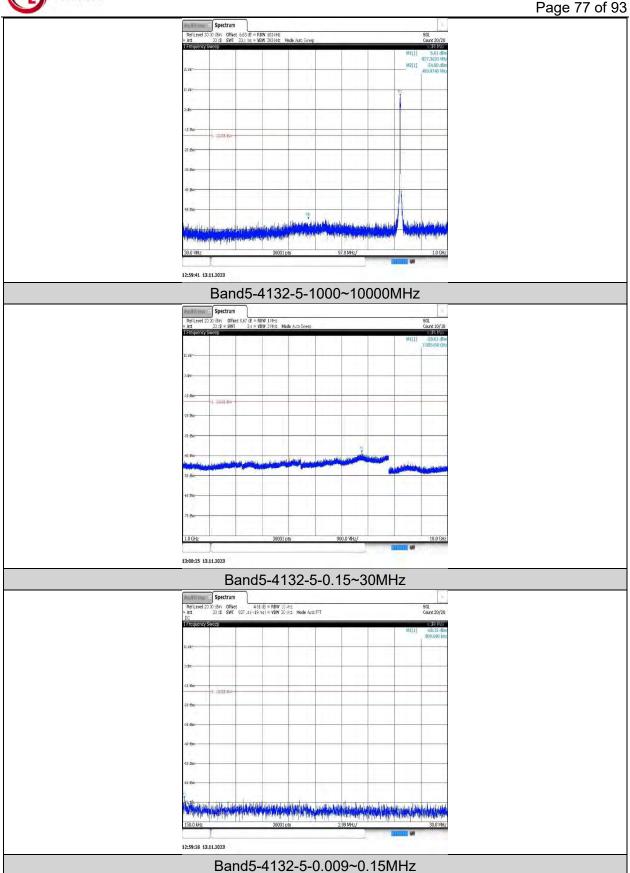


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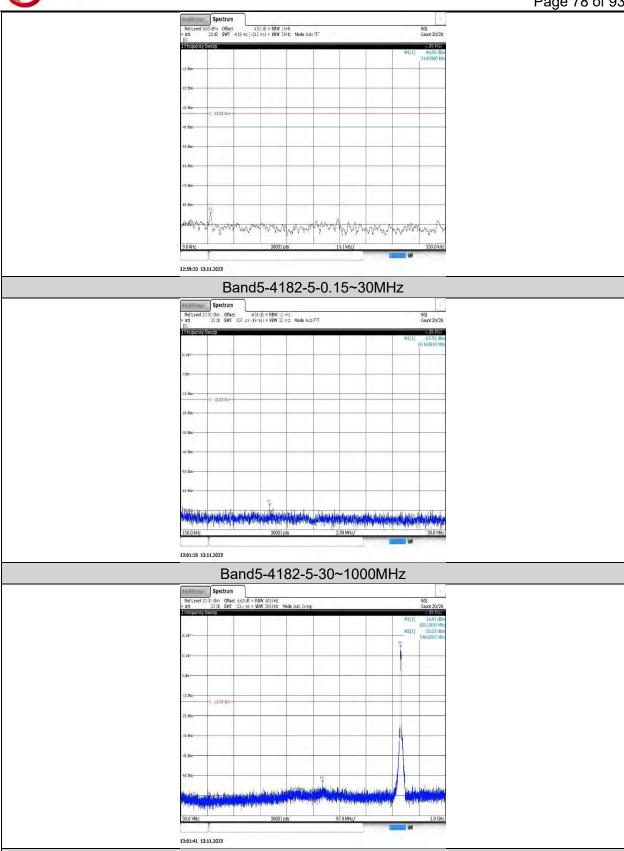


# REPORT NO.: 4791041023-1-RF-7





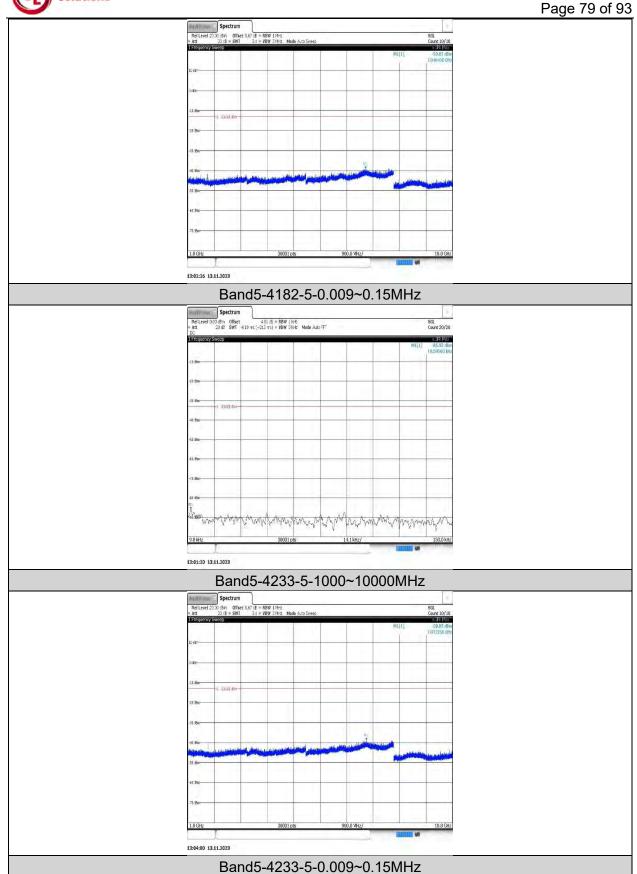
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Band5-4182-5-1000~10000MHz

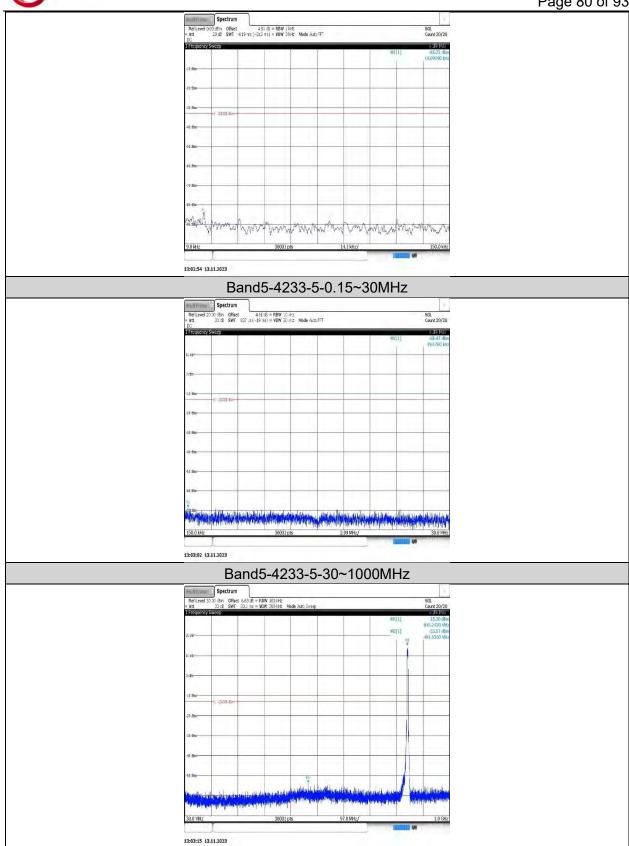


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# 8.6. AppendixF:Frequency Stability 8.6.1. Test Result

|       |         |                  | Volta               | ige               |                    |                |         |
|-------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band  | Channel | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| Band2 | 9400    | VL               | NT                  | 3.05              | 0.001622           | ±2.5           | PASS    |
| Band2 | 9400    | VN               | NT                  | 2.28              | 0.001213           | ±2.5           | PASS    |
| Band2 | 9400    | VH               | NT                  | 3.38              | 0.001798           | ±2.5           | PASS    |
| Band4 | 1413    | VL               | NT                  | 0.14              | 0.000081           | ±2.5           | PASS    |
| Band4 | 1413    | VN               | NT                  | -3.57             | -0.002060          | ±2.5           | PASS    |
| Band4 | 1413    | VH               | NT                  | -0.18             | -0.000104          | ±2.5           | PASS    |
| Band5 | 4182    | VL               | NT                  | -0.16             | -0.000191          | ±2.5           | PASS    |
| Band5 | 4182    | VN               | NT                  | -1.54             | -0.001841          | ±2.5           | PASS    |
| Band5 | 4182    | VH               | NT                  | 0.32              | 0.000383           | ±2.5           | PASS    |

|       | -       | -                | Ter                 | nperature         | -                  | -              |         |
|-------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band  | Channel | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| Band2 | 9400    | NV               | -30                 | 3.32              | 0.001766           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | -20                 | 3.63              | 0.001931           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | -10                 | 3.60              | 0.001915           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | 0                   | 3.86              | 0.002053           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | 10                  | 3.47              | 0.001846           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | 20                  | 3.97              | 0.002112           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | 30                  | 3.18              | 0.001691           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | 40                  | 3.30              | 0.001755           | ±2.5           | PASS    |
| Band2 | 9400    | NV               | 50                  | 3.78              | 0.002011           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | -30                 | -0.26             | -0.000150          | ±2.5           | PASS    |
| Band4 | 1413    | NV               | -20                 | 0.77              | 0.000444           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | -10                 | 0.16              | 0.000092           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | 0                   | 0.11              | 0.000063           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | 10                  | 0.75              | 0.000433           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | 20                  | 1.12              | 0.000646           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | 30                  | -0.34             | -0.000196          | ±2.5           | PASS    |
| Band4 | 1413    | NV               | 40                  | 0.35              | 0.000202           | ±2.5           | PASS    |
| Band4 | 1413    | NV               | 50                  | 0.53              | 0.000306           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | -30                 | 0.14              | 0.000167           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | -20                 | 0.46              | 0.000550           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | -10                 | 0.69              | 0.000825           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | 0                   | 1.21              | 0.001447           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | 10                  | 1.25              | 0.001495           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | 20                  | 0.80              | 0.000956           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | 30                  | 0.52              | 0.000622           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | 40                  | 0.12              | 0.000143           | ±2.5           | PASS    |
| Band5 | 4182    | NV               | 50                  | 1.62              | 0.001937           | ±2.5           | PASS    |



|       |         |         |                  | Voltage             | 9                 |                    |                |         |
|-------|---------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band  | Channel | SubTest | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| Band2 | 9400    | 1       | VL               | NT                  | 4.33              | 0.002303           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | VN               | NT                  | 2.49              | 0.001324           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | VH               | NT                  | 4.12              | 0.002191           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | VL               | NT                  | 3.38              | 0.001798           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | VN               | NT                  | 3.05              | 0.001622           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | VH               | NT                  | 4.23              | 0.002250           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | VL               | NT                  | 3.48              | 0.001851           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | VN               | NT                  | 4.07              | 0.002165           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | VH               | NT                  | 3.93              | 0.002090           | ±2.5           | PASS    |
| Band2 | 9400    | 4       | VL               | NT                  | 2.84              | 0.001511           | ±2.5           | PASS    |
| Band2 | 9400    | 4       | VN               | NT                  | 3.25              | 0.001729           | ±2.5           | PASS    |
| Band2 | 9400    | 4       | VH               | NT                  | 3.45              | 0.001835           | ±2.5           | PASS    |
| Band4 | 1413    | 4       | VL               | NT                  | 0.17              | 0.000098           | ±2.5           | PASS    |
| Band4 | 1413    | 4       | VN               | NT                  | -0.01             | -0.000006          | ±2.5           | PASS    |
| Band4 | 1413    | 4       | VH               | NT                  | 1.04              | 0.000600           | ±2.5           | PASS    |
| Band5 | 4182    | 4       | VL               | NT                  | 1.23              | 0.001471           | ±2.5           | PASS    |
| Band5 | 4182    | 4       | VN               | NT                  | 0.36              | 0.000430           | ±2.5           | PASS    |
| Band5 | 4182    | 4       | VH               | NT                  | 0.44              | 0.000526           | ±2.5           | PASS    |

|       |         |         |                  | Temperat            | ure               |                    |                |         |
|-------|---------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band  | Channel | SubTest | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| Band2 | 9400    | 1       | NV               | -30                 | 3.39              | 0.001803           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | -20                 | 3.32              | 0.001766           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | -10                 | 3.62              | 0.001926           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 0                   | 3.31              | 0.001761           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 10                  | 3.78              | 0.002011           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 20                  | 4.65              | 0.002473           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 30                  | 4.19              | 0.002229           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 40                  | 4.03              | 0.002144           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 50                  | 4.27              | 0.002271           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | -30                 | 3.81              | 0.002027           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | -20                 | 4.34              | 0.002309           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | -10                 | 3.33              | 0.001771           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 0                   | 2.79              | 0.001484           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 10                  | 3.50              | 0.001862           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 20                  | 3.04              | 0.001617           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 30                  | 4.10              | 0.002181           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 40                  | 3.71              | 0.001973           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 50                  | 3.49              | 0.001856           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | NV               | -30                 | 3.25              | 0.001729           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | NV               | -20                 | 3.67              | 0.001952           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | NV               | -10                 | 3.86              | 0.002053           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | NV               | 0                   | 4.89              | 0.002601           | ±2.5           | PASS    |



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|       |      |   |    |     |      |          | 0    |      |
|-------|------|---|----|-----|------|----------|------|------|
| Band2 | 9400 | 3 | NV | 10  | 3.73 | 0.001984 | ±2.5 | PASS |
| Band2 | 9400 | 3 | NV | 20  | 3.62 | 0.001926 | ±2.5 | PASS |
| Band2 | 9400 | 3 | NV | 30  | 4.33 | 0.002303 | ±2.5 | PASS |
| Band2 | 9400 | 3 | NV | 40  | 4.24 | 0.002255 | ±2.5 | PASS |
| Band2 | 9400 | 3 | NV | 50  | 4.06 | 0.002160 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | -30 | 3.30 | 0.001755 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | -20 | 3.93 | 0.002090 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | -10 | 3.34 | 0.001777 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | 0   | 3.24 | 0.001723 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | 10  | 2.62 | 0.001394 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | 20  | 3.27 | 0.001739 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | 30  | 3.61 | 0.001920 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | 40  | 3.91 | 0.002080 | ±2.5 | PASS |
| Band2 | 9400 | 4 | NV | 50  | 3.00 | 0.001596 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | -30 | 0.79 | 0.000456 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | -20 | 0.62 | 0.000358 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | -10 | 1.04 | 0.000600 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | 0   | 0.51 | 0.000294 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | 10  | 1.07 | 0.000618 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | 20  | 2.10 | 0.001212 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | 30  | 1.14 | 0.000658 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | 40  | 1.44 | 0.000831 | ±2.5 | PASS |
| Band4 | 1413 | 4 | NV | 50  | 0.76 | 0.000439 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | -30 | 1.01 | 0.001208 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | -20 | 0.92 | 0.001100 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | -10 | 1.14 | 0.001363 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | 0   | 1.92 | 0.002296 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | 10  | 0.90 | 0.001076 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | 20  | 0.65 | 0.000777 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | 30  | 1.21 | 0.001447 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | 40  | 0.97 | 0.001160 | ±2.5 | PASS |
| Band5 | 4182 | 4 | NV | 50  | 0.85 | 0.001016 | ±2.5 | PASS |



|       |         |         |                  | Voltage             | 9                 |                    |                |         |
|-------|---------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band  | Channel | SubTest | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| Band2 | 9400    | 1       | VL               | NT                  | 4.94              | 0.002628           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | VN               | NT                  | 3.63              | 0.001931           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | VH               | NT                  | 4.75              | 0.002527           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | VL               | NT                  | 4.86              | 0.002585           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | VN               | NT                  | 4.44              | 0.002362           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | VH               | NT                  | 4.87              | 0.002590           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | VL               | NT                  | 4.96              | 0.002638           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | VN               | NT                  | 4.43              | 0.002356           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | VH               | NT                  | 5.29              | 0.002814           | ±2.5           | PASS    |
| Band2 | 9400    | 4       | VL               | NT                  | 5.16              | 0.002745           | ±2.5           | PASS    |
| Band2 | 9400    | 4       | VN               | NT                  | 4.40              | 0.002340           | ±2.5           | PASS    |
| Band2 | 9400    | 4       | VH               | NT                  | 5.71              | 0.003037           | ±2.5           | PASS    |
| Band2 | 9400    | 5       | VL               | NT                  | 5.48              | 0.002915           | ±2.5           | PASS    |
| Band2 | 9400    | 5       | VN               | NT                  | 4.94              | 0.002628           | ±2.5           | PASS    |
| Band2 | 9400    | 5       | VH               | NT                  | 5.18              | 0.002755           | ±2.5           | PASS    |
| Band4 | 1413    | 5       | VL               | NT                  | 3.03              | 0.001749           | ±2.5           | PASS    |
| Band4 | 1413    | 5       | VN               | NT                  | 1.97              | 0.001137           | ±2.5           | PASS    |
| Band4 | 1413    | 5       | VH               | NT                  | 2.70              | 0.001558           | ±2.5           | PASS    |
| Band5 | 4182    | 5       | VL               | NT                  | 2.46              | 0.002941           | ±2.5           | PASS    |
| Band5 | 4182    | 5       | VN               | NT                  | 1.96              | 0.002343           | ±2.5           | PASS    |
| Band5 | 4182    | 5       | VH               | NT                  | 2.24              | 0.002678           | ±2.5           | PASS    |

|       |         |         |                  | Temperat            | ure               |                    |                |         |
|-------|---------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band  | Channel | SubTest | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| Band2 | 9400    | 1       | NV               | -30                 | 5.05              | 0.002686           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | -20                 | 4.82              | 0.002564           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | -10                 | 5.31              | 0.002824           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 0                   | 5.23              | 0.002782           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 10                  | 5.22              | 0.002777           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 20                  | 4.98              | 0.002649           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 30                  | 5.21              | 0.002771           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 40                  | 5.26              | 0.002798           | ±2.5           | PASS    |
| Band2 | 9400    | 1       | NV               | 50                  | 5.28              | 0.002809           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | -30                 | 4.97              | 0.002644           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | -20                 | 4.93              | 0.002622           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | -10                 | 5.39              | 0.002867           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 0                   | 5.45              | 0.002899           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 10                  | 5.56              | 0.002957           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 20                  | 4.66              | 0.002479           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 30                  | 5.25              | 0.002793           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 40                  | 5.35              | 0.002846           | ±2.5           | PASS    |
| Band2 | 9400    | 2       | NV               | 50                  | 5.09              | 0.002707           | ±2.5           | PASS    |
| Band2 | 9400    | 3       | NV               | -30                 | 4.89              | 0.002601           | ±2.5           | PASS    |



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| Band2 9400 3 NV -20 5.46 0.002904 +2.5 PASS   Band2 9400 3 NV 0 5.32 0.002803 ±2.5 PASS   Band2 9400 3 NV 0 4.53 0.002410 ±2.5 PASS   Band2 9400 3 NV 20 5.11 0.002718 ±2.5 PASS   Band2 9400 3 NV 30 5.66 0.003011 ±2.5 PASS   Band2 9400 4 NV -30 5.33 0.002835 ±2.5 PASS   Band2 9400 4 NV -30 5.45 0.002691 ±2.5 PASS   Band2 9400 4 NV -10 5.06 0.002651 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002351 ±2.5 PASS   Band2 9400 4 NV 20   | -     |      |   |    |     |      |          |      | 00 01 00 |
|---|-------|------|---|----|-----|------|----------|------|----------|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 3 | NV | -20 | 5.46 | 0.002904 | ±2.5 | PASS     |
| Band2 9400 3 NV 10 4.53 0.002410 ±2.5 PASS   Band2 9400 3 NV 20 5.11 0.002718 ±2.5 PASS   Band2 9400 3 NV 40 5.66 0.002803 ±2.5 PASS   Band2 9400 4 NV -50 5.45 0.002803 ±2.5 PASS   Band2 9400 4 NV -30 5.33 0.002805 ±2.5 PASS   Band2 9400 4 NV -10 5.09 0.002707 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002351 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002851 ±2.5 PASS   Band2 9400 4 NV 40 5.36 0.002851 ±2.5 PASS   Band2 9400 5 NV 4   | Band2 | 9400 | 3 | NV | -10 | 5.42 | 0.002883 | ±2.5 | PASS     |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   | Band2 | 9400 |   | NV | 0   | 5.34 | 0.002840 | ±2.5 | PASS     |
| Band2 9400 3 NV 30 5.57 0.002963 ±2.5 PASS   Band2 9400 3 NV 40 5.66 0.003011 ±2.5 PASS   Band2 9400 4 NV -30 5.33 0.002835 ±2.5 PASS   Band2 9400 4 NV -20 5.09 0.002707 ±2.5 PASS   Band2 9400 4 NV -10 5.06 0.002851 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002351 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002651 ±2.5 PASS   Band2 9400 4 NV 40 5.36 0.002766 ±2.5 PASS   Band2 9400 5 NV -30 5.14 0.002766 ±2.5 PASS   Band2 9400 5 NV  | Band2 | 9400 | 3 | NV | 10  | 4.53 | 0.002410 | ±2.5 | PASS     |
| Band2 9400 3 NV 40 5.66 0.003011 ±2.5 PASS   Band2 9400 3 NV 50 5.45 0.002835 ±2.5 PASS   Band2 9400 4 NV -30 5.33 0.002835 ±2.5 PASS   Band2 9400 4 NV -20 5.09 0.002707 ±2.5 PASS   Band2 9400 4 NV -10 5.06 0.002631 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002351 ±2.5 PASS   Band2 9400 4 NV 30 4.48 0.002851 ±2.5 PASS   Band2 9400 4 NV 50 5.20 0.002766 ±2.5 PASS   Band2 9400 5 NV -30 5.14 0.002766 ±2.5 PASS   Band2 9400 5 NV  | Band2 | 9400 | 3 | NV | 20  | 5.11 | 0.002718 | ±2.5 | PASS     |
| Band2 9400 3 NV 50 5.45 0.002899 ±2.5 PASS   Band2 9400 4 NV -30 5.33 0.002305 ±2.5 PASS   Band2 9400 4 NV -10 5.06 0.002691 ±2.5 PASS   Band2 9400 4 NV 0 4.86 0.002585 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002331 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002331 ±2.5 PASS   Band2 9400 4 NV 30 4.48 0.002351 ±2.5 PASS   Band2 9400 4 NV 50 5.20 0.002766 ±2.5 PASS   Band2 9400 5 NV -20 5.01 0.002665 ±2.5 PASS   Band2 9400 5 NV 10   | Band2 | 9400 |   | NV | 30  | 5.57 | 0.002963 | ±2.5 | PASS     |
| Band2 9400 4 NV -30 5.33 0.002835 ±2.5 PASS   Band2 9400 4 NV -20 5.09 0.002707 ±2.5 PASS   Band2 9400 4 NV -10 5.06 0.002685 ±2.5 PASS   Band2 9400 4 NV 0 4.86 0.002532 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002532 ±2.5 PASS   Band2 9400 4 NV 30 4.48 0.002851 ±2.5 PASS   Band2 9400 4 NV 50 5.20 0.002766 ±2.5 PASS   Band2 9400 5 NV -30 5.14 0.00265 ±2.5 PASS   Band2 9400 5 NV -10 5.64 0.03000 ±2.5 PASS   Band2 9400 5 NV 20   | Band2 | 9400 |   | NV | 40  | 5.66 | 0.003011 | ±2.5 | PASS     |
| Band2 9400 4 NV -20 5.09 0.002707 ±2.5 PASS   Band2 9400 4 NV -10 5.06 0.002691 ±2.5 PASS   Band2 9400 4 NV 0 4.86 0.002535 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002351 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002532 ±2.5 PASS   Band2 9400 4 NV 30 4.48 0.002383 ±2.5 PASS   Band2 9400 4 NV 50 5.20 0.002766 ±2.5 PASS   Band2 9400 5 NV -20 5.01 0.002665 ±2.5 PASS   Band2 9400 5 NV -10 5.64 0.003000 ±2.5 PASS   Band2 9400 5 NV 2   | Band2 | 9400 | 3 | NV | 50  | 5.45 | 0.002899 | ±2.5 | PASS     |
| Band2 9400 4 NV -10 5.06 0.002691 ±2.5 PASS   Band2 9400 4 NV 0 4.86 0.002585 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002532 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002331 ±2.5 PASS   Band2 9400 4 NV 30 4.48 0.002383 ±2.5 PASS   Band2 9400 4 NV 40 5.36 0.002766 ±2.5 PASS   Band2 9400 5 NV -20 5.01 0.002665 ±2.5 PASS   Band2 9400 5 NV -10 5.01 0.002665 ±2.5 PASS   Band2 9400 5 NV 0 5.64 0.003000 ±2.5 PASS   Band2 9400 5 NV 20<   | Band2 | 9400 | 4 | NV | -30 | 5.33 | 0.002835 | ±2.5 | PASS     |
| Band2 9400 4 NV 0 4.86 0.002585 ±2.5 PASS   Band2 9400 4 NV 10 4.42 0.002351 ±2.5 PASS   Band2 9400 4 NV 20 4.76 0.002383 ±2.5 PASS   Band2 9400 4 NV 30 4.48 0.002383 ±2.5 PASS   Band2 9400 4 NV 40 5.36 0.002766 ±2.5 PASS   Band2 9400 5 NV -30 5.14 0.002734 ±2.5 PASS   Band2 9400 5 NV -20 5.01 0.002665 ±2.5 PASS   Band2 9400 5 NV 0 5.64 0.003000 ±2.5 PASS   Band2 9400 5 NV 20 5.33 0.002852 ±2.5 PASS   Band2 9400 5 NV 30 </td <td>Band2</td> <td>9400</td> <td>4</td> <td>NV</td> <td>-20</td> <td>5.09</td> <td>0.002707</td> <td>±2.5</td> <td>PASS</td> | Band2 | 9400 | 4 | NV | -20 | 5.09 | 0.002707 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | -10 | 5.06 | 0.002691 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | 0   | 4.86 | 0.002585 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | 10  | 4.42 | 0.002351 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | 20  | 4.76 | 0.002532 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | 30  | 4.48 | 0.002383 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | 40  | 5.36 | 0.002851 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 4 | NV | 50  | 5.20 | 0.002766 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 5 | NV | -30 | 5.14 | 0.002734 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 | 5 | NV | -20 | 5.01 | 0.002665 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 |   | NV | -10 | 5.01 | 0.002665 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 |   | NV | 0   | 5.64 | 0.003000 | ±2.5 | PASS     |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   | Band2 | 9400 | 5 | NV | 10  | 5.88 | 0.003128 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 |   | NV | 20  | 5.33 | 0.002835 | ±2.5 | PASS     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Band2 | 9400 |   | NV | 30  | 4.74 | 0.002521 | ±2.5 | PASS     |
| Band4 1413 5 NV -30 2.27 0.001310 ±2.5 PASS   Band4 1413 5 NV -20 3.15 0.001818 ±2.5 PASS   Band4 1413 5 NV -10 2.60 0.001501 ±2.5 PASS   Band4 1413 5 NV 0 2.43 0.001403 ±2.5 PASS   Band4 1413 5 NV 0 2.43 0.001616 ±2.5 PASS   Band4 1413 5 NV 10 2.80 0.001616 ±2.5 PASS   Band4 1413 5 NV 20 2.60 0.001501 ±2.5 PASS   Band4 1413 5 NV 30 2.57 0.001483 ±2.5 PASS   Band4 1413 5 NV 40 2.78 0.001605 ±2.5 PASS   Band5 4182 5 NV -30   | Band2 | 9400 |   | NV | 40  | 4.91 | 0.002612 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band2 | 9400 |   | NV | 50  | 4.61 | 0.002452 | ±2.5 | PASS     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Band4 | 1413 |   | NV | -30 | 2.27 | 0.001310 | ±2.5 | PASS     |
| Band414135NV02.430.001403±2.5PASSBand414135NV102.800.001616±2.5PASSBand414135NV202.600.001501±2.5PASSBand414135NV302.570.001483±2.5PASSBand414135NV302.570.001483±2.5PASSBand414135NV402.780.001605±2.5PASSBand414135NV502.520.001454±2.5PASSBand541825NV-302.050.002451±2.5PASSBand541825NV-202.500.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV302.600.002929±2.5PASSBand541825NV402.450.002929±2.5PASS          | Band4 | 1413 |   | NV | -20 | 3.15 |          | ±2.5 | PASS     |
| Band4 1413 5 NV 10 2.80 0.001616 ±2.5 PASS   Band4 1413 5 NV 20 2.60 0.001501 ±2.5 PASS   Band4 1413 5 NV 30 2.57 0.001483 ±2.5 PASS   Band4 1413 5 NV 30 2.57 0.001605 ±2.5 PASS   Band4 1413 5 NV 40 2.78 0.001605 ±2.5 PASS   Band4 1413 5 NV 50 2.52 0.001454 ±2.5 PASS   Band5 4182 5 NV -30 2.05 0.002451 ±2.5 PASS   Band5 4182 5 NV -20 2.50 0.002451 ±2.5 PASS   Band5 4182 5 NV 0 2.12 0.002774 ±2.5 PASS   Band5 4182 5 NV 10<   | Band4 | 1413 |   | NV | -10 | 2.60 | 0.001501 | ±2.5 | PASS     |
| Band414135NV202.600.001501±2.5PASSBand414135NV302.570.001483±2.5PASSBand414135NV402.780.001605±2.5PASSBand414135NV502.520.001454±2.5PASSBand414135NV502.520.001454±2.5PASSBand541825NV-302.050.002451±2.5PASSBand541825NV-202.500.002989±2.5PASSBand541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASSBand541825NV402.450.002929±2.5PASS  | Band4 | 1413 |   | NV | 0   | 2.43 | 0.001403 | ±2.5 | PASS     |
| Band414135NV302.570.001483±2.5PASSBand414135NV402.780.001605±2.5PASSBand414135NV502.520.001454±2.5PASSBand541825NV-302.050.002451±2.5PASSBand541825NV-202.500.002989±2.5PASSBand541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS  | Band4 | 1413 |   | NV | 10  | 2.80 | 0.001616 | ±2.5 | PASS     |
| Band414135NV402.780.001605±2.5PASSBand414135NV502.520.001454±2.5PASSBand541825NV-302.050.002451±2.5PASSBand541825NV-202.500.002989±2.5PASSBand541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS  |       | 1413 | 5 | NV | 20  | 2.60 | 0.001501 | ±2.5 | PASS     |
| Band414135NV502.520.001454±2.5PASSBand541825NV-302.050.002451±2.5PASSBand541825NV-202.500.002989±2.5PASSBand541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS  | Band4 | 1413 |   | NV | 30  | 2.57 | 0.001483 | ±2.5 | PASS     |
| Band541825NV-302.050.002451±2.5PASSBand541825NV-202.500.002989±2.5PASSBand541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS  | Band4 | 1413 | 5 | NV | 40  | 2.78 | 0.001605 | ±2.5 | PASS     |
| Band541825NV-202.500.002989±2.5PASSBand541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV102.700.003228±2.5PASSBand541825NV202.700.003109±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS   | Band4 | 1413 | 5 | NV | 50  | 2.52 | 0.001454 | ±2.5 | PASS     |
| Band541825NV-102.320.002774±2.5PASSBand541825NV02.120.002535±2.5PASSBand541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS  | Band5 | 4182 | 5 | NV | -30 | 2.05 | 0.002451 | ±2.5 | PASS     |
| Band5 4182 5 NV 0 2.12 0.002535 ±2.5 PASS   Band5 4182 5 NV 10 2.34 0.002798 ±2.5 PASS   Band5 4182 5 NV 20 2.70 0.003228 ±2.5 PASS   Band5 4182 5 NV 20 2.70 0.003228 ±2.5 PASS   Band5 4182 5 NV 30 2.60 0.003109 ±2.5 PASS   Band5 4182 5 NV 40 2.45 0.002929 ±2.5 PASS  | Band5 | 4182 |   | NV | -20 | 2.50 | 0.002989 | ±2.5 | PASS     |
| Band541825NV102.340.002798±2.5PASSBand541825NV202.700.003228±2.5PASSBand541825NV302.600.003109±2.5PASSBand541825NV402.450.002929±2.5PASS  | Band5 | 4182 | 5 | NV | -10 | 2.32 | 0.002774 | ±2.5 | PASS     |
| Band5 4182 5 NV 20 2.70 0.003228 ±2.5 PASS   Band5 4182 5 NV 30 2.60 0.003109 ±2.5 PASS   Band5 4182 5 NV 40 2.45 0.002929 ±2.5 PASS  | Band5 | 4182 | 5 | NV | 0   | 2.12 | 0.002535 | ±2.5 | PASS     |
| Band5 4182 5 NV 30 2.60 0.003109 ±2.5 PASS   Band5 4182 5 NV 40 2.45 0.002929 ±2.5 PASS   | Band5 | 4182 |   | NV | 10  | 2.34 | 0.002798 | ±2.5 | PASS     |
| Band5 4182 5 NV 40 2.45 0.002929 ±2.5 PASS  | Band5 | 4182 | 5 | NV | 20  | 2.70 | 0.003228 | ±2.5 | PASS     |
|   | Band5 | 4182 | 5 | NV | 30  | 2.60 | 0.003109 | ±2.5 | PASS     |
| Band5 4182 5 NV 50 2.79 0.003336 ±2.5 PASS  | Band5 | 4182 | 5 | NV | 40  | 2.45 | 0.002929 | ±2.5 | PASS     |
|   | Band5 | 4182 | 5 | NV | 50  | 2.79 | 0.003336 | ±2.5 | PASS     |



# 9. RADIATED SPURIOUS EMISSIONS

#### LIMIT

FCC: §24.238(a) (WCDMA Band 2)

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  $43 + 10 \log (P) dB$ .

#### FCC: §22.917(a) (WCDMA Band 5)

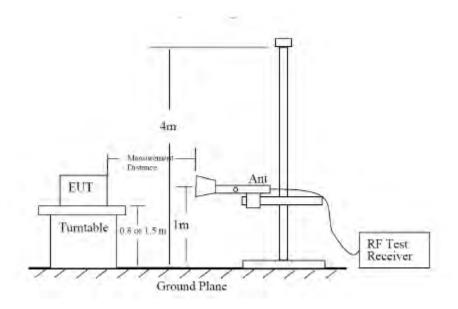
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 10g (P) dB.

#### FCC: §27.53(h) (WCDMA Band 4)

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 PROCEDURE

Following the test configuration shown below, radiated emissions measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in section 5.5.1 of ANSI C63.26-2015. The field strength measurement method by using a test site validated to the requirement of ANSI C63.4 is an alternative method to the substitution measurement.





#### Radiated Power Measurement Calculation According to ANSI C63.26-2015

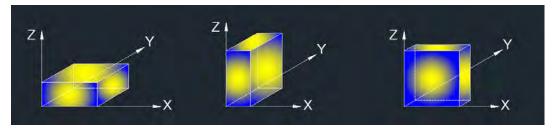
- a) E (dBµV/m) = Measured amplitude level (dBµV) + Cable Loss (dB)+ Antenna Factor (dB/m).
- b) È (dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m).
- c)  $\dot{E} (dB\mu V/m) = EIRP (dBm) 20l0g(D) + 104.8$ , where D is the measurement distance (in the far field region) in m.
- d) EIRP (dBm) = E (dBµV/m) + 20l0g(D) 104.8, where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is at 3m, then 20\*Log(3) = 9.5424

Then, EIRP (dBm) = E (dB $\mu$ V/m) + 9.5424 - 104.8 = E (dB $\mu$ V/m) - 95.2576

X axis, Y axis, Z axis positions:



Note: The EUT was investigated in three orthogonal orientations X/Y/Z on ANT0 to determine the worst-case orientation. X orientation is finally determined the worst.

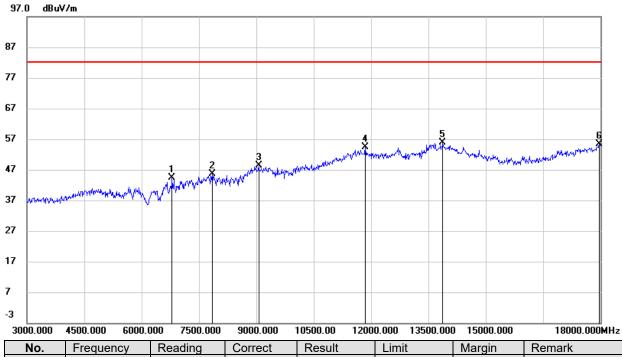


Temperature22.9°CRelative Humidity58.3%Atmosphere Pressure101kPaTest Voltage/

#### **RESULTS**

#### WCDMA Band 2

HSDPA- Low Channel- Horizontal



| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 6795.000  | 38.68   | 5.68    | 44.36    | 82.25    | -37.89 | peak   |
| 2   | 7845.000  | 39.26   | 6.32    | 45.58    | 82.25    | -36.67 | peak   |
| 3   | 9060.000  | 37.95   | 10.51   | 48.46    | 82.25    | -33.79 | peak   |
| 4   | 11850.000 | 36.87   | 17.56   | 54.43    | 82.25    | -27.82 | peak   |
| 5   | 13875.000 | 34.19   | 21.70   | 55.89    | 82.25    | -26.36 | peak   |
| 6   | 17970.000 | 29.86   | 25.51   | 55.37    | 82.25    | -26.88 | peak   |

HSDPA- Low Channel- Vertical

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 4995.000  | 42.21   | 0.43    | 42.64    | 82.25    | -39.61 | peak   |
| 2   | 8985.000  | 37.97   | 10.37   | 48.34    | 82.25    | -33.91 | peak   |
| 3   | 10230.000 | 36.78   | 12.46   | 49.24    | 82.25    | -33.01 | peak   |
| 4   | 11535.000 | 36.64   | 16.70   | 53.34    | 82.25    | -28.91 | peak   |
| 5   | 13635.000 | 34.46   | 21.19   | 55.65    | 82.25    | -26.60 | peak   |
| 6   | 17925.000 | 29.55   | 25.25   | 54.80    | 82.25    | -27.45 | peak   |



#### HSDPA- Mid Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 7170.000  | 37.15   | 6.56    | 43.71    | 82.25    | -38.54 | peak   |
| 2   | 9135.000  | 37.48   | 10.55   | 48.03    | 82.25    | -34.22 | peak   |
| 3   | 12045.000 | 35.25   | 17.93   | 53.18    | 82.25    | -29.07 | peak   |
| 4   | 12675.000 | 36.09   | 17.99   | 54.08    | 82.25    | -28.17 | peak   |
| 5   | 13530.000 | 34.82   | 20.96   | 55.78    | 82.25    | -26.47 | peak   |
| 6   | 17940.000 | 30.12   | 25.34   | 55.46    | 82.25    | -26.79 | peak   |

#### HSDPA- Mid Channel- Vertical

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 5865.000  | 40.32   | 1.88    | 42.20    | 82.25    | -40.05 | peak   |
| 2   | 7635.000  | 38.92   | 6.33    | 45.25    | 82.25    | -37.00 | peak   |
| 3   | 9105.000  | 37.39   | 10.53   | 47.92    | 82.25    | -34.33 | peak   |
| 4   | 11865.000 | 35.68   | 17.59   | 53.27    | 82.25    | -28.98 | peak   |
| 5   | 13590.000 | 34.73   | 21.09   | 55.82    | 82.25    | -26.43 | peak   |
| 6   | 17910.000 | 29.95   | 25.16   | 55.11    | 82.25    | -27.14 | peak   |

#### HSDPA- High Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 5715.000  | 40.07   | 1.46    | 41.53    | 82.25    | -40.72 | peak   |
| 2   | 7890.000  | 39.14   | 6.31    | 45.45    | 82.25    | -36.80 | peak   |
| 3   | 8985.000  | 38.58   | 10.37   | 48.95    | 82.25    | -33.30 | peak   |
| 4   | 11805.000 | 36.13   | 17.43   | 53.56    | 82.25    | -28.69 | peak   |
| 5   | 13890.000 | 34.11   | 21.72   | 55.83    | 82.25    | -26.42 | peak   |
| 6   | 17970.000 | 29.79   | 25.51   | 55.30    | 82.25    | -26.95 | peak   |

#### HSDPA- High Channel- Vertical

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 4995.000  | 40.95   | 0.43    | 41.38    | 82.25    | -40.87 | peak   |
| 2   | 7770.000  | 38.97   | 6.31    | 45.28    | 82.25    | -36.97 | peak   |
| 3   | 9180.000  | 37.79   | 10.56   | 48.35    | 82.25    | -33.90 | peak   |
| 4   | 12735.000 | 35.65   | 18.12   | 53.77    | 82.25    | -28.48 | peak   |
| 5   | 13950.000 | 33.72   | 21.86   | 55.58    | 82.25    | -26.67 | peak   |
| 6   | 17985.000 | 30.20   | 25.60   | 55.80    | 82.25    | -26.45 | peak   |



## WCDMA Band 4

#### HSDPA- Low Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 7500.000  | 38.67   | 6.33    | 45.00    | 82.25    | -37.25 | peak   |
| 2   | 9135.000  | 37.17   | 10.55   | 47.72    | 82.25    | -34.53 | peak   |
| 3   | 10035.000 | 37.29   | 12.08   | 49.37    | 82.25    | -32.88 | peak   |
| 4   | 11910.000 | 35.44   | 17.72   | 53.16    | 82.25    | -29.09 | peak   |
| 5   | 13635.000 | 34.00   | 21.19   | 55.19    | 82.25    | -27.06 | peak   |
| 6   | 18000.000 | 29.21   | 25.69   | 54.90    | 82.25    | -27.35 | peak   |

#### HSDPA- Low Channel- Vertical

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 7035.000  | 37.66   | 6.67    | 44.33    | 82.25    | -37.92 | peak   |
| 2   | 7875.000  | 38.36   | 6.31    | 44.67    | 82.25    | -37.58 | peak   |
| 3   | 8985.000  | 37.82   | 10.37   | 48.19    | 82.25    | -34.06 | peak   |
| 4   | 11790.000 | 36.07   | 17.38   | 53.45    | 82.25    | -28.80 | peak   |
| 5   | 13620.000 | 33.86   | 21.15   | 55.01    | 82.25    | -27.24 | peak   |
| 6   | 17985.000 | 29.92   | 25.60   | 55.52    | 82.25    | -26.73 | peak   |

#### HSDPA- Mid Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 4875.000  | 40.79   | -0.03   | 40.76    | 82.25    | -41.49 | peak   |
| 2   | 7890.000  | 39.84   | 6.31    | 46.15    | 82.25    | -36.10 | peak   |
| 3   | 10215.000 | 36.50   | 12.43   | 48.93    | 82.25    | -33.32 | peak   |
| 4   | 11730.000 | 36.26   | 17.22   | 53.48    | 82.25    | -28.77 | peak   |
| 5   | 13980.000 | 33.69   | 21.92   | 55.61    | 82.25    | -26.64 | peak   |
| 6   | 17985.000 | 30.23   | 25.60   | 55.83    | 82.25    | -26.42 | peak   |

#### HSDPA- Mid Channel- Vertical

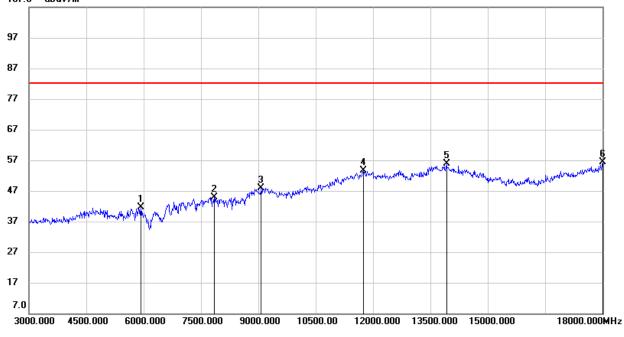
| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 7755.000  | 38.48   | 6.31    | 44.79    | 82.25    | -37.46 | peak   |
| 2   | 10155.000 | 36.85   | 12.32   | 49.17    | 82.25    | -33.08 | peak   |
| 3   | 12120.000 | 35.68   | 17.87   | 53.55    | 82.25    | -28.70 | peak   |
| 4   | 13815.000 | 34.11   | 21.56   | 55.67    | 82.25    | -26.58 | peak   |
| 5   | 16980.000 | 33.60   | 20.80   | 54.40    | 82.25    | -27.85 | peak   |
| 6   | 17985.000 | 29.66   | 25.60   | 55.26    | 82.25    | -26.99 | peak   |

#### HSDPA- High Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 7770.000  | 38.61   | 6.31    | 44.92    | 82.25    | -37.33 | peak   |
| 2   | 9240.000  | 37.63   | 10.58   | 48.21    | 82.25    | -34.04 | peak   |
| 3   | 11055.000 | 37.19   | 14.96   | 52.15    | 82.25    | -30.10 | peak   |
| 4   | 11895.000 | 35.53   | 17.68   | 53.21    | 82.25    | -29.04 | peak   |
| 5   | 13590.000 | 34.26   | 21.09   | 55.35    | 82.25    | -26.90 | peak   |
| 6   | 17775.000 | 30.87   | 24.36   | 55.23    | 82.25    | -27.02 | peak   |



# HSDPA- High Channel- Vertical 107.0 dBuV/m



| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 5925.000  | 39.64   | 2.04    | 41.68    | 82.25    | -40.57 | peak   |
| 2   | 7845.000  | 38.56   | 6.32    | 44.88    | 82.25    | -37.37 | peak   |
| 3   | 9075.000  | 37.35   | 10.52   | 47.87    | 82.25    | -34.38 | peak   |
| 4   | 11745.000 | 36.29   | 17.27   | 53.56    | 82.25    | -28.69 | peak   |
| 5   | 13920.000 | 34.03   | 21.79   | 55.82    | 82.25    | -26.43 | peak   |
| 6   | 18000.000 | 30.64   | 25.69   | 56.33    | 82.25    | -25.92 | peak   |



### WCDMA Band 5

#### HSDPA- Low Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 1648.000  | 48.35   | -12.22  | 36.13    | 82.25    | -46.12 | peak   |
| 2   | 3529.000  | 43.79   | -5.77   | 38.02    | 82.25    | -44.23 | peak   |
| 3   | 5662.000  | 40.75   | 0.89    | 41.64    | 82.25    | -40.61 | peak   |
| 4   | 6805.000  | 37.19   | 5.23    | 42.42    | 82.25    | -39.83 | peak   |
| 5   | 7903.000  | 38.96   | 5.66    | 44.62    | 82.25    | -37.63 | peak   |
| 6   | 8938.000  | 37.85   | 9.31    | 47.16    | 82.25    | -35.09 | peak   |

#### HSDPA- Low Channel- Vertical

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 1495.000  | 48.56   | -12.74  | 35.82    | 82.25    | -46.43 | peak   |
| 2   | 2494.000  | 46.22   | -8.52   | 37.70    | 82.25    | -44.55 | peak   |
| 3   | 4996.000  | 42.23   | -0.17   | 42.06    | 82.25    | -40.19 | peak   |
| 4   | 6787.000  | 37.58   | 5.14    | 42.72    | 82.25    | -39.53 | peak   |
| 5   | 7642.000  | 38.70   | 5.69    | 44.39    | 82.25    | -37.86 | peak   |
| 6   | 9226.000  | 37.82   | 9.83    | 47.65    | 82.25    | -34.60 | peak   |

#### HSDPA- Mid Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2692.000  | 44.93   | -7.91   | 37.02    | 82.25    | -45.23 | peak   |
| 2   | 3736.000  | 44.91   | -5.21   | 39.70    | 82.25    | -42.55 | peak   |
| 3   | 4888.000  | 41.23   | -0.60   | 40.63    | 82.25    | -41.62 | peak   |
| 4   | 5671.000  | 40.93   | 0.91    | 41.84    | 82.25    | -40.41 | peak   |
| 5   | 7633.000  | 38.65   | 5.68    | 44.33    | 82.25    | -37.92 | peak   |
| 6   | 9199.000  | 37.81   | 9.82    | 47.63    | 82.25    | -34.62 | peak   |

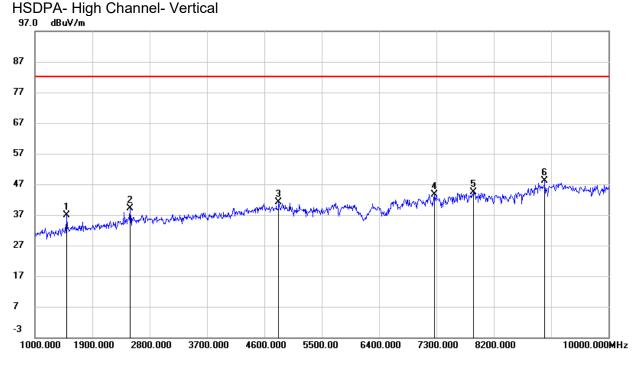
#### HSDPA- Mid Channel- Vertical

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 1495.000  | 48.01   | -12.74  | 35.27    | 82.25    | -46.98 | peak   |
| 2   | 2494.000  | 48.19   | -8.52   | 39.67    | 82.25    | -42.58 | peak   |
| 3   | 4114.000  | 42.88   | -3.94   | 38.94    | 82.25    | -43.31 | peak   |
| 4   | 4996.000  | 41.63   | -0.17   | 41.46    | 82.25    | -40.79 | peak   |
| 5   | 7642.000  | 39.46   | 5.69    | 45.15    | 82.25    | -37.10 | peak   |
| 6   | 9307.000  | 37.96   | 9.86    | 47.82    | 82.25    | -34.43 | peak   |

#### HSDPA- High Channel- Horizontal

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 1684.000  | 48.16   | -12.10  | 36.06    | 82.25    | -46.19 | peak   |
| 2   | 3556.000  | 43.29   | -5.70   | 37.59    | 82.25    | -44.66 | peak   |
| 3   | 4807.000  | 41.60   | -0.92   | 40.68    | 82.25    | -41.57 | peak   |
| 4   | 7030.000  | 37.04   | 6.18    | 43.22    | 82.25    | -39.03 | peak   |
| 5   | 7714.000  | 38.70   | 5.68    | 44.38    | 82.25    | -37.87 | peak   |
| 6   | 8965.000  | 37.95   | 9.49    | 47.44    | 82.25    | -34.81 | peak   |





| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 1495.000  | 49.52   | -12.74  | 36.78    | 82.25    | -45.47 | peak   |
| 2   | 2494.000  | 47.63   | -8.52   | 39.11    | 82.25    | -43.14 | peak   |
| 3   | 4825.000  | 42.08   | -0.84   | 41.24    | 82.25    | -41.01 | peak   |
| 4   | 7264.000  | 37.76   | 5.93    | 43.69    | 82.25    | -38.56 | peak   |
| 5   | 7876.000  | 38.68   | 5.66    | 44.34    | 82.25    | -37.91 | peak   |
| 6   | 9001.000  | 38.31   | 9.74    | 48.05    | 82.25    | -34.20 | peak   |

Remark: All the modulation WCDMA, HSDPA, HSUPA have been tested at low, middle, high channels, only the worst modulation show in the test report.

# **END OF REPORT**