



Report No.: SUCR260100007401

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## TEST REPORT

**Application No.:** SUCR2601000074AT  
**Applicant:** TVS Motor Company Limited  
**Address of Applicant:** P.B N0.4 Harita, Hosur-635109, Tamil Nadu, India  
**Manufacturer:** TVS Motor Company Limited  
**Address of Manufacturer:** P.B N0.4 Harita, Hosur-635109, Tamil Nadu, India  
**Equipment Under Test (EUT):**  
**EUT Name:** Instrument Cluster  
**Model No.:** 0000N7161459  
**FCC ID:** 2BUVH-N7161459  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2026-01-29  
**Date of Test:** 2026-03-03 to 2026-03-09  
**Date of Issue:** 2026-03-18

**Test Result:**

**Pass\***

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

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| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 01              | Original    | 2026-03-18 | /      |

|                          |  |                               |  |
|--------------------------|--|-------------------------------|--|
| Authorized for issue by: |  |                               |  |
| Tested By                |  | Hayley Zhang                  |  |
|                          |  | Hayley Zhang/Project Engineer |  |
| Approved By              |  | Cedar cheng                   |  |
|                          |  | Cedar Cheng /Reviewer         |  |



## 2 Test Summary

| Radio Spectrum Technical Requirement                                                     |                                  |        |                                                 |        |
|------------------------------------------------------------------------------------------|----------------------------------|--------|-------------------------------------------------|--------|
| Item                                                                                     | Standard                         | Method | Requirement                                     | Result |
| Antenna Requirement                                                                      | 47 CFR Part 15, Subpart C 15.247 | N/A    | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass   |
| Other requirements<br>Frequency Hopping<br>Spread Spectrum<br>System Hopping<br>Sequence |                                  | N/A    | 47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)  | Pass   |

| Radio Spectrum Matter Part                            |                                  |                                                   |                                           |        |
|-------------------------------------------------------|----------------------------------|---------------------------------------------------|-------------------------------------------|--------|
| Item                                                  | Standard                         | Method                                            | Requirement                               | Result |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 7.8.8 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Below 1GHz                |                                  | ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5        | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz                |                                  | ANSI C63.10-2020/Cor1-2023 Section 6.6 & 7.8.8    | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Maximum Conducted Output Power                        |                                  | ANSI C63.10-2020/Cor1-2023 Section 7.8.5          | 47 CFR Part 15, Subpart C 15.247(b)(1)    | Pass   |

### Remark:

This test report (Report No.: SUCR260100007401 issue on 2026-03-18) is based on the original test report (Report No.: TERF2211002511E2 issue on 2023-03-22).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions and Maximum Conducted Output Power are tested, other data is refer to the original report TERF2211002511E2 issue on 2023-03-22.

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## 4 General Information

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

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Operation Frequency:        | 2402MHz to 2480MHz                      |
| Modulation Type:            | GFSK, pi/4DQPSK, 8DPSK                  |
| Number of Channels:         | 79                                      |
| Channel Spacing:            | 1MHz                                    |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Antenna Type:               | SMD Loop Antenna (ANT2)                 |
| Antenna Gain:               | 0.5dBi (ANT2)                           |

### 4.2 Environment Parameter

| Environment Parameter | Selected Values During Tests    |                                  |
|-----------------------|---------------------------------|----------------------------------|
| Relative Humidity     | 43-44%                          |                                  |
| Value                 | Temperature(°C)                 | Voltage(V)                       |
| NTNV                  | 22-23                           | 13.5                             |
| Note:                 |                                 |                                  |
| NV:Normal Voltage     | LV:Low Extreme Test Voltage     | HV:High Extreme Test Voltage     |
| NT:Normal Temperature | LT:Low Extreme Test Temperature | HT:High Extreme Test Temperature |

### 4.3 Description of Support Units

| Description                                     | Manufacturer | Model No. | Serial No. |
|-------------------------------------------------|--------------|-----------|------------|
| --                                              | --           | --        | --         |
| The EUT has been tested as an independent unit. |              |           |            |

### 4.4 Measurement Uncertainty & Decision Rule

| No. | Item               | Measurement Uncertainty           |
|-----|--------------------|-----------------------------------|
| 1   | RF conducted power | $\pm 0.75\text{dB}$               |
| 2   | RF Radiated power  | $\pm 1.56\text{dB}$ (9KHz-30MHz)  |
|     |                    | $\pm 4.80\text{dB}$ (30MHz-1GHz)  |
|     |                    | $\pm 4.80\text{dB}$ (1GHz-18GHz)  |
|     |                    | $\pm 4.80\text{dB}$ (18GHz-40GHz) |
| 3   | Temperature test   | $\pm 1^{\circ}\text{C}$           |
| 4   | Humidity test      | $\pm 3\%$                         |
| 5   | Supply voltages    | $\pm 1\%$                         |
| 6   | Time               | $\pm 3\%$                         |

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results  
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

#### 4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)  
Pilot Free Trade Zone

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

#### 4.6 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1312)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number:717327

• **ISED (CAB Identifier: CN0120)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None

## 5 Equipment List

| Item                     | Equipment                                 | Manufacturer                  | Model            | Inventory No  | Cal Date   | Cal. Due Date |
|--------------------------|-------------------------------------------|-------------------------------|------------------|---------------|------------|---------------|
| <b>RF Conducted Test</b> |                                           |                               |                  |               |            |               |
| 1                        | Signal Analyzer                           | ROHDE&SCHWARZ                 | FSW43            | SUWI-01-02-04 | 2026/1/14  | 2027/1/13     |
| 2                        | Signal Analyzer                           | KEYSIGHT                      | N9020A           | SUWI-01-02-15 | 2025/11/21 | 2026/11/20    |
| 3                        | MXG Vector signal genitor                 | KEYSIGHT                      | N5182B           | SUWI-01-38-01 | 2026/1/14  | 2027/1/13     |
| 4                        | Signal Generator                          | ROHDE&SCHWARZ                 | SMW200A          | SUWI-01-07-08 | 2026/1/14  | 2027/1/13     |
| 5                        | Signal Generator                          | ROHDE&SCHWARZ                 | SMW100A          | SUWI-01-08-01 | 2026/1/14  | 2027/1/13     |
| 6                        | MXG Vector Signal Generator               | ROHDE&SCHWARZ                 | SMR20            | SUWI-01-33-01 | 2025/11/21 | 2026/11/20    |
| 7                        | Wideband Radio Communication Tester       | ROHDE&SCHWARZ                 | CMW500           | SUWI-01-16-13 | 2025/5/8   | 2026/5/7      |
| 8                        | Wideband Radio Communication Test Station | Anritsu                       | MT8000A          | SUWI-01-34-02 | 2025/11/21 | 2026/11/20    |
| 9                        | Wideband Radio Communication Tester       | Anritsu                       | MT8821C          | SUWI-01-26-03 | 2025/11/21 | 2026/11/20    |
| 10                       | Power meter                               | Anritsu                       | ML2495A          | SUWI-01-31-01 | 2025/11/21 | 2026/11/20    |
| 11                       | Pulse power sensor                        | Anritsu                       | MA2411B          | SUWI-01-32-01 | 2025/11/21 | 2026/11/20    |
| 12                       | DC Power Supply                           | HYELEC                        | HY3005B          | SUWI-01-18-01 | 2026/1/14  | 2027/1/13     |
| 13                       | Temperature and humidity meter            | MingGao                       | TH101B           | SUWI-01-01-07 | 2026/2/11  | 2027/2/10     |
| 14                       | Temperature Chamber                       | GIANT FORCE                   | ICT-017-40-SP-SD | SUWI-01-13-02 | 2025/5/7   | 2026/5/6      |
| 15                       | Measurement Software                      | TST                           | TST 272 V2.02    | SUWI-03-55-03 | NCR        | NCR           |
| 16                       | RF Control unit                           | TST                           | TSCB3023R2       | SUWI-02-20-01 | NCR        | NCR           |
| 17                       | RFCables                                  | Tonscend                      | NA               | SUWI-01-03-01 | NCR        | NCR           |
| <b>RF Radiated Test</b>  |                                           |                               |                  |               |            |               |
| 1                        | Semi-Anechoic Chamber                     | Brilliant-emc                 | N/A              | SUWI-04-02-01 | 2023/6/3   | 2026/6/2      |
| 2                        | Signal Analyzer                           | ROHDE&SCHWARZ                 | FSW43            | SUWI-01-02-04 | 2026/1/14  | 2027/1/13     |
| 3                        | Signal Analyzer                           | KEYSIGHT                      | N9020A           | SUWI-01-02-09 | 2025/11/21 | 2026/11/20    |
| 4                        | Test receiver                             | ROHDE&SCHWARZ                 | ESR7             | SUWI-01-10-01 | 2026/1/14  | 2027/1/13     |
| 5                        | Signal Generator                          | ROHDE&SCHWARZ                 | SMW100A          | SUWI-01-18-01 | 2026/1/14  | 2027/1/13     |
| 6                        | Receiving antenna                         | SCHWRZBECK<br>MESS-ELEKTRONIK | VULB 9168        | SUWI-01-11-04 | 2025/9/10  | 2027/9/9      |
| 7                        | Receiving antenna                         | SCHWRZBECK<br>MESS-ELEKTRONIK | BBHA 9120D       | SUWI-01-11-02 | 2025/5/7   | 2027/5/6      |
| 8                        | Receiving antenna                         | SCHWRZBECK<br>MESS-ELEKTRONIK | BBHA 9170        | SUWI-01-11-03 | 2025/5/7   | 2027/5/6      |
| 9                        | Active Loop Antenna                       | SCHWRZBECK<br>MESS-ELEKTRONIK | FMZB 1519B       | SUWI-01-21-01 | 2025/5/7   | 2027/5/6      |
| 10                       | Amplifier                                 | Tonscend                      | TAP9K3G40        | SUWI-01-14-01 | 2026/1/14  | 2027/1/13     |
| 11                       | Amplifier                                 | Tonscend                      | TAP01018050      | SUWI-01-14-02 | 2026/1/14  | 2027/1/13     |
| 12                       | Amplifier                                 | Tonscend                      | TAP18040048      | SUWI-01-14-03 | 2026/1/14  | 2027/1/13     |
| 13                       | Wideband Radio Communication Tester       | Anritsu                       | MT8820C          | SUWI-01-26-01 | 2025/11/21 | 2026/11/20    |
| 14                       | Wideband Radio Communication Tester       | Anritsu                       | MT8821C          | SUWI-01-26-03 | 2025/8/25  | 2026/8/24     |
| 15                       | Wideband Radio Communication Tester       | ROHDE&SCHWARZ                 | CMW500           | SUWI-01-16-09 | 2025/8/26  | 2026/8/25     |
| 16                       | Radio Communication Analyzer              | StarPoint                     | SP9500E          | SUWI-01-28-02 | 2025/11/21 | 2026/11/20    |



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|    |                                |               |                 |               |           |           |
|----|--------------------------------|---------------|-----------------|---------------|-----------|-----------|
| 17 | Signal Generator               | ROHDE&SCHWARZ | SMB100A         | SUWI-01-08-01 | 2026/1/14 | 2027/1/13 |
| 18 | DC Power Supply                | HYELEC        | HY3005B         | SUWI-01-18-01 | 2026/1/14 | 2027/1/13 |
| 19 | Temperature and humidity meter | MingGao       | TH101B          | SUWI-01-01-05 | 2026/2/11 | 2027/2/10 |
| 20 | Measurement Software           | Tonscend      | JS32-RE 4.0.0.0 | SUWI-02-09-06 | NCR       | NCR       |
| 21 | RF Control unit                | Tonscend      | JS0806-1        | SUWI-02-20-01 | NCR       | NCR       |
| 22 | RFCables                       | Tonscend      | NA              | SUWI-01-03-02 | NCR       | NCR       |

Remark: NCR=No Calibration Requirement.

## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is SMD Loop Antenna and no consideration of replacement. The best case gain of the antenna is 0.5dBi.

Antenna location: Refer to internal photo.

## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other



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user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

## 7 Radio Spectrum Matter Test Results

### 7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 7.8.8

Limit:

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

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

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

Operating Environment:

Temperature: 23 °C

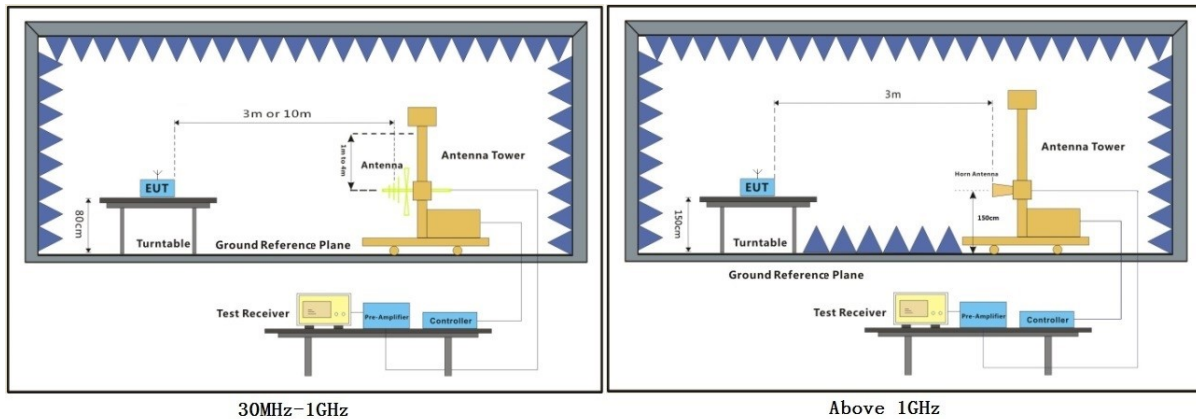
Humidity: 43 % RH

Atmospheric Pressure: 1021 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                        |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

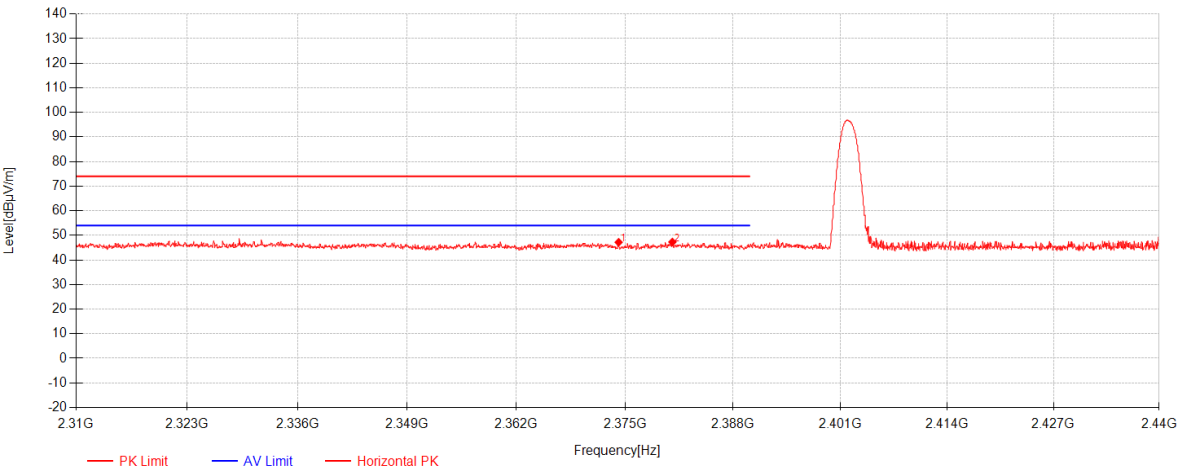
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters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

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



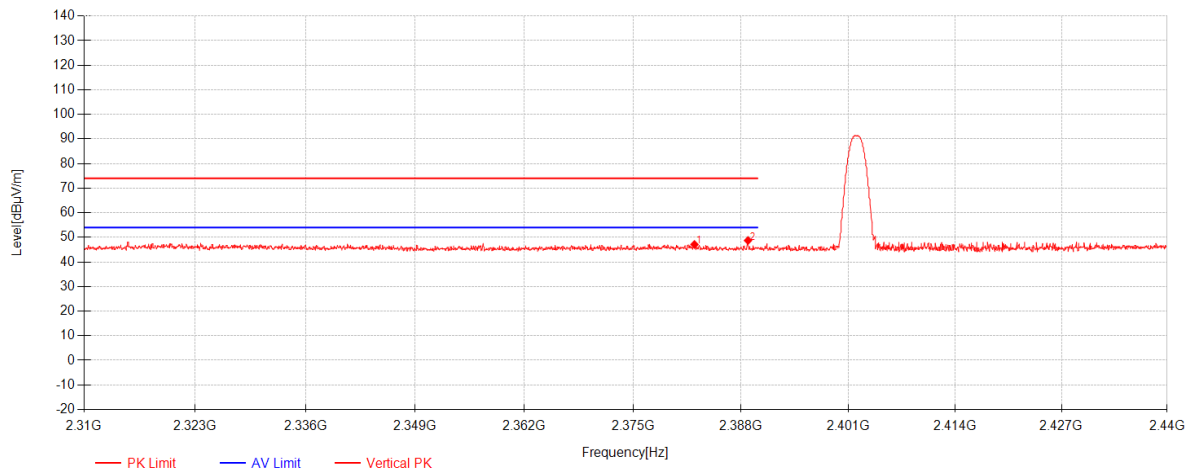
BT\_DH5\_TX\_CH\_00\_Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 2374.2414       | 43.70          | 26.97     | -23.50      | 47.18          | 74.00          | 26.82       | Horizontal |
| -         | -               | -              | -         | -           | 22.36          | 54.00          | 31.64       | -          |
| 2         | 2380.7002       | 43.80          | 26.99     | -23.50      | 47.28          | 74.00          | 26.72       | Horizontal |
| -         | -               | -              | -         | -           | 22.46          | 54.00          | 31.54       | -          |

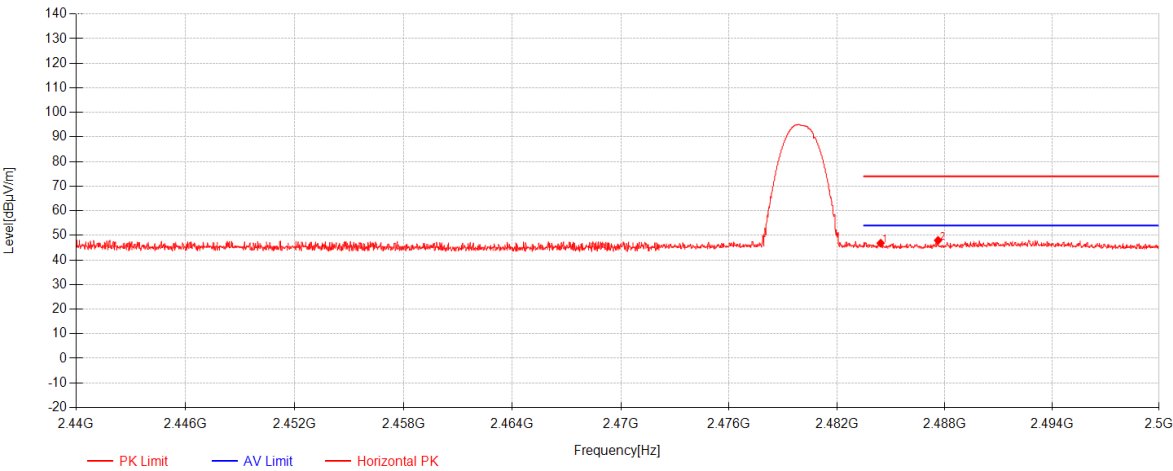


BT\_DH5\_TX\_CH\_00\_Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2382.3908       | 43.63          | 26.99     | -23.51      | 47.11          | 74.00          | 26.89       | Vertical |
| -         | -               | -              | -         | -           | 22.29          | 54.00          | 31.71       | -        |
| 2         | 2388.8496       | 45.25          | 27.00     | -23.52      | 48.73          | 74.00          | 25.27       | Vertical |
| -         | -               | -              | -         | -           | 23.91          | 54.00          | 30.09       | -        |

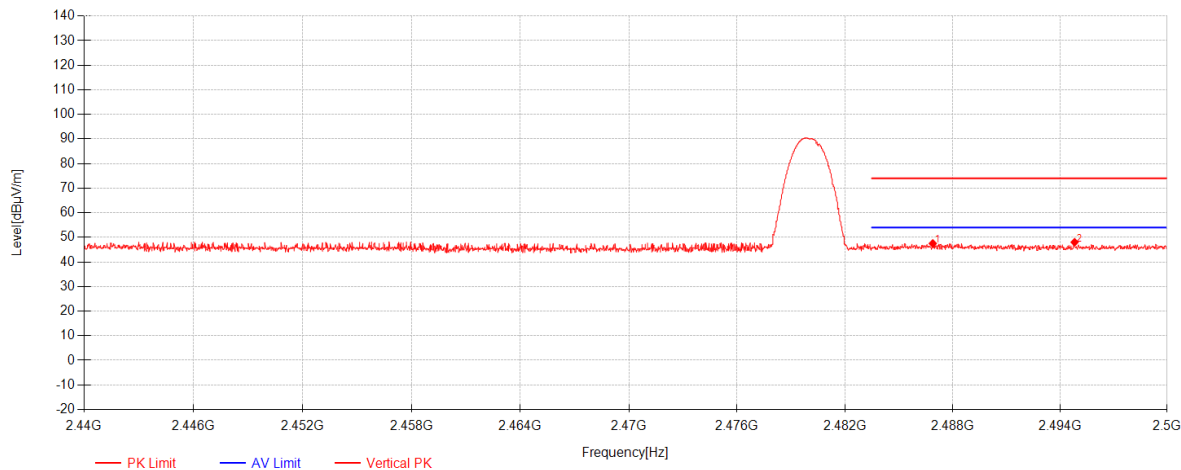
BT\_DH5\_TX\_CH\_78\_Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 2484.4348       | 42.84          | 27.17     | -23.18      | 46.84          | 74.00          | 27.16       | Horizontal |
| -         | -               | -              | -         | -           | 22.02          | 54.00          | 31.98       | -          |
| 2         | 2487.6359       | 43.93          | 27.18     | -23.16      | 47.95          | 74.00          | 26.05       | Horizontal |
| -         | -               | -              | -         | -           | 23.13          | 54.00          | 30.87       | -          |



BT\_DH5\_TX\_CH\_78\_Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2486.8956       | 43.50          | 27.18     | -23.17      | 47.51          | 74.00          | 26.49       | Vertical |
| -         | -               | -              | -         | -           | 22.69          | 54.00          | 31.31       | -        |
| 2         | 2494.8183       | 43.97          | 27.19     | -23.13      | 48.03          | 74.00          | 25.97       | Vertical |
| -         | -               | -              | -         | -           | 23.21          | 54.00          | 30.79       | -        |

## 7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5

Limit:

| Frequency (MHz) | Field strength<br>(microvolts/meter) | Measurement distance<br>(meters) | Field strength<br>(dB $\mu$ V/m@3m) |
|-----------------|--------------------------------------|----------------------------------|-------------------------------------|
| 0.009-0.490     | 2400/F(kHz)                          | 300                              | 128.5 to 93.8                       |
| 0.490-1.705     | 24000/F(kHz)                         | 30                               | 73.8 to 62.9                        |
| 1.705-30.0      | 30                                   | 30                               | 69.60                               |
| 30-88           | 100                                  | 3                                | 40.0                                |
| 88-216          | 150                                  | 3                                | 43.5                                |
| 216-960         | 200                                  | 3                                | 46.0                                |
| 960-1000        | 500                                  | 3                                | 54.0                                |

Note: The emission limits for the range 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

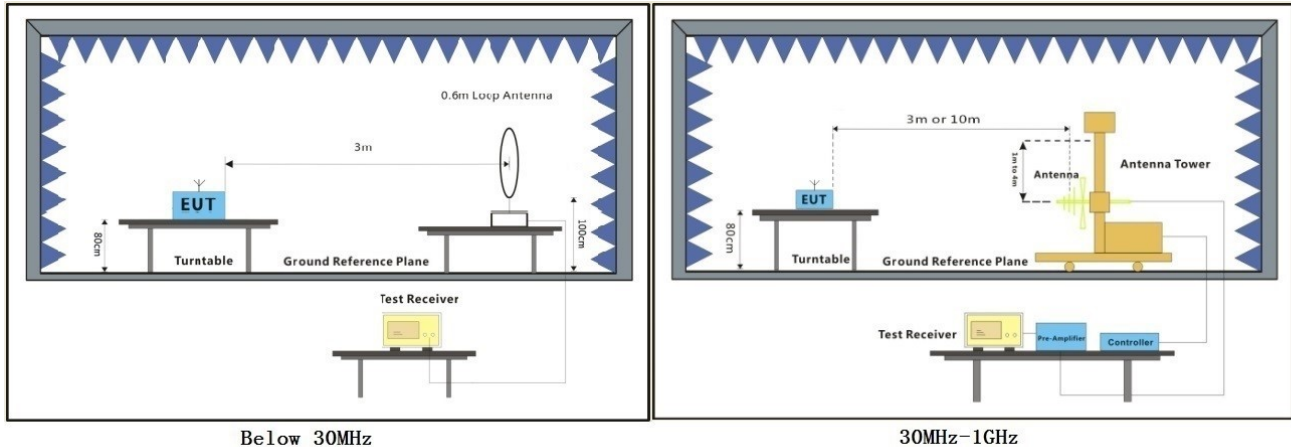
Humidity: 44 % RH

Atmospheric Pressure: 1021 mbar

### 7.2.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                        |
|--------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

## 7.2.3 Test Setup Diagram



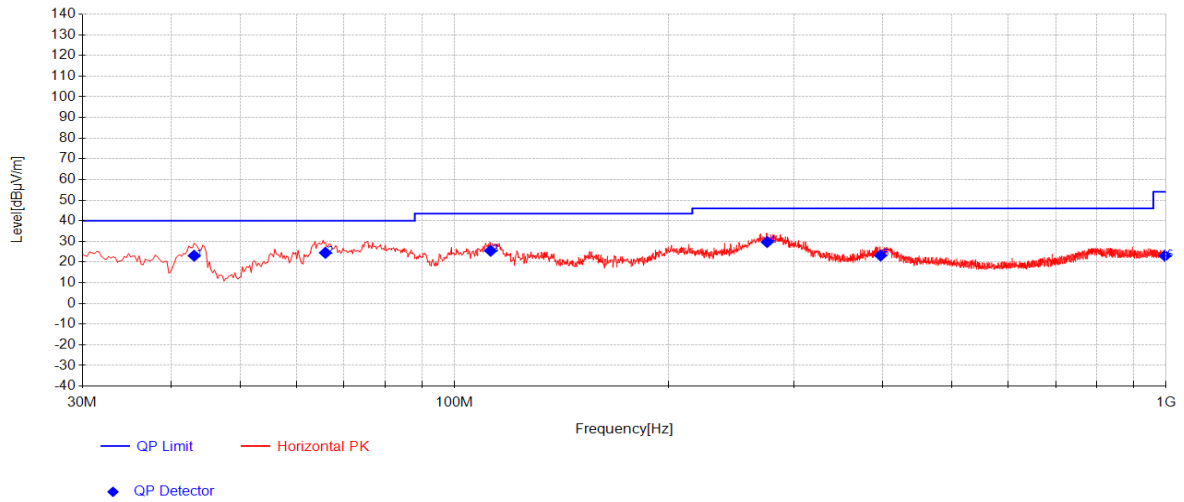
## 7.2.4 Measurement Procedure and Data

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

Remark:

- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

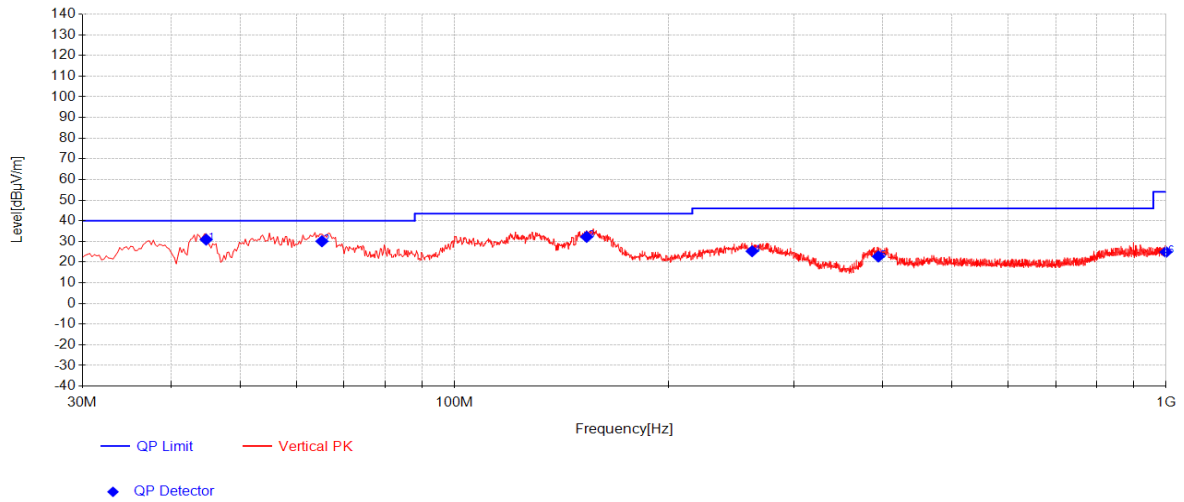
Test Mode: 00; Polarity: Horizontal



#### Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-----------|-------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| 1   | 43.095          | 43.62          | 13.29     | -33.81      | 23.11             | 40.00             | 16.89          | 152         | 52        | Horizontal |
| 2   | 65.89           | 46.93          | 11.06     | -33.48      | 24.52             | 40.00             | 15.48          | 174         | 331       | Horizontal |
| 3   | 112.45          | 47.83          | 10.63     | -32.97      | 25.49             | 43.50             | 18.01          | 162         | 166       | Horizontal |
| 4   | 275.1675        | 49.25          | 12.23     | -31.77      | 29.71             | 46.00             | 16.29          | 184         | 83        | Horizontal |
| 5   | 397.145         | 38.52          | 15.71     | -31.04      | 23.20             | 46.00             | 22.80          | 143         | 124       | Horizontal |
| 6   | 996.8475        | 26.43          | 24.47     | -27.83      | 23.07             | 54.00             | 30.93          | 110         | 144       | Horizontal |

Test Mode: 00; Polarity: Vertical



### Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-----------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| 1   | 44.7925         | 51.34          | 13.34     | -33.78      | 30.91             | 40.00             | 9.09           | 123         | 203       | Vertical |
| 2   | 65.1625         | 52.36          | 11.22     | -33.49      | 30.09             | 40.00             | 9.91           | 169         | 68        | Vertical |
| 3   | 153.4325        | 52.11          | 12.77     | -32.64      | 32.23             | 43.50             | 11.27          | 185         | 49        | Vertical |
| 4   | 262.0725        | 45.36          | 11.77     | -31.87      | 25.27             | 46.00             | 20.73          | 187         | 89        | Vertical |
| 5   | 394.235         | 38.16          | 15.63     | -31.05      | 22.74             | 46.00             | 23.26          | 123         | 0         | Vertical |
| 6   | 1000            | 28.19          | 24.50     | -27.80      | 24.89             | 54.00             | 29.11          | 154         | 184       | Vertical |

### 7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.6 & 7.8.8

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000     | 500                              | 3                            |

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is  $20\log(1/3) = -9.54\text{dB}$  (for 1m test distance).

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

Operating Environment:

Temperature: 23 °C

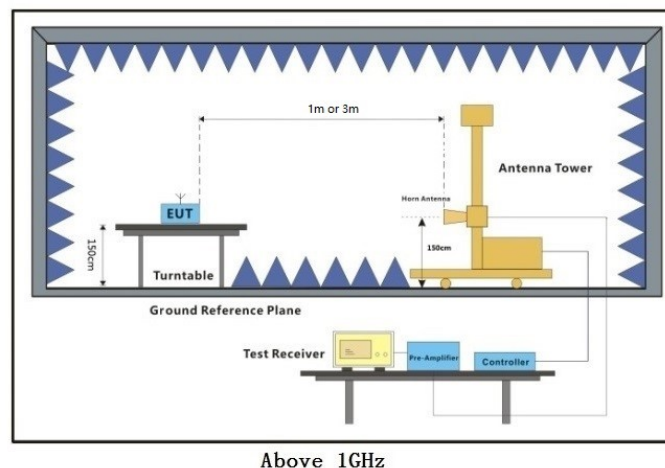
Humidity: 43 % RH

Atmospheric Pressure: 1021 mbar

#### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                        |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

#### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

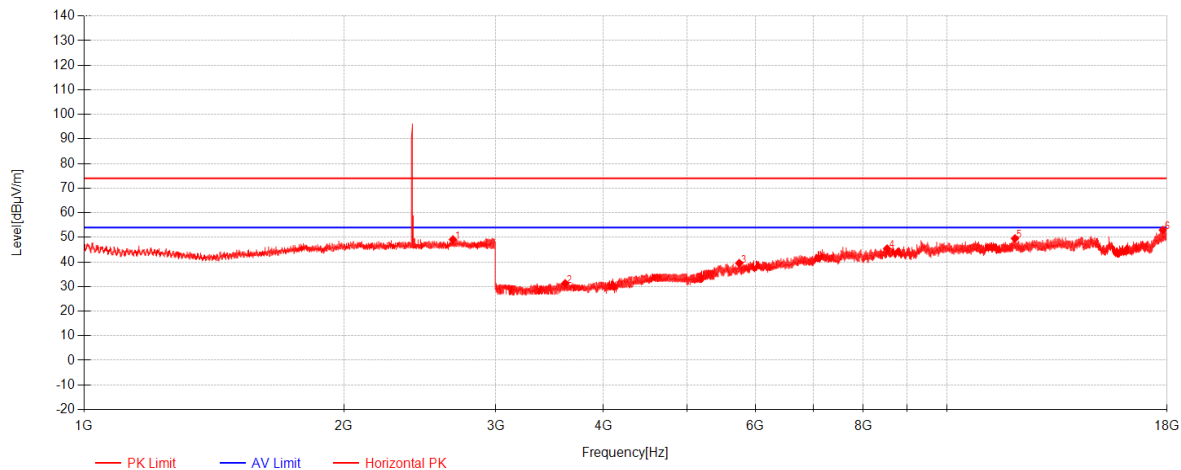
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

#### Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

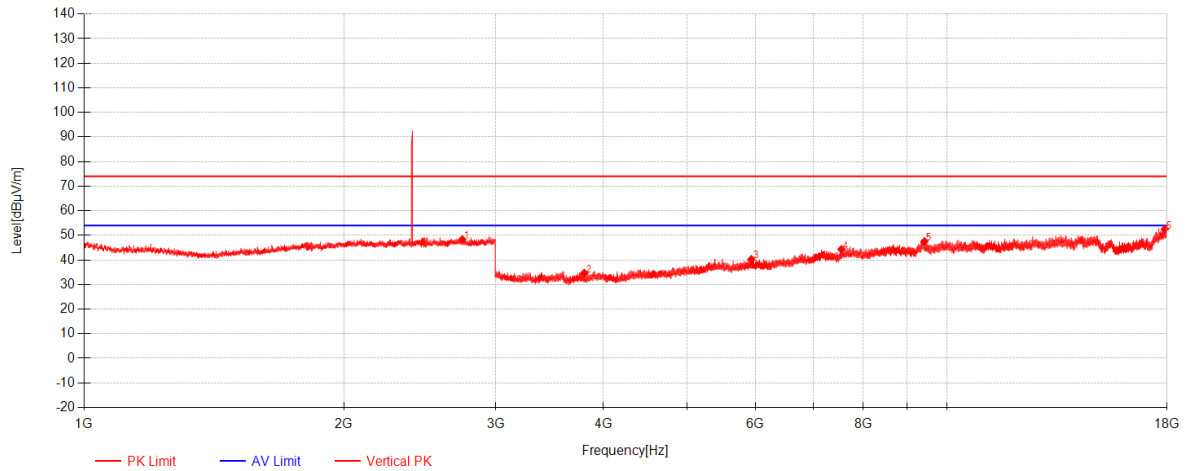


BT\_DH5\_TX\_CH\_00\_Horizontal



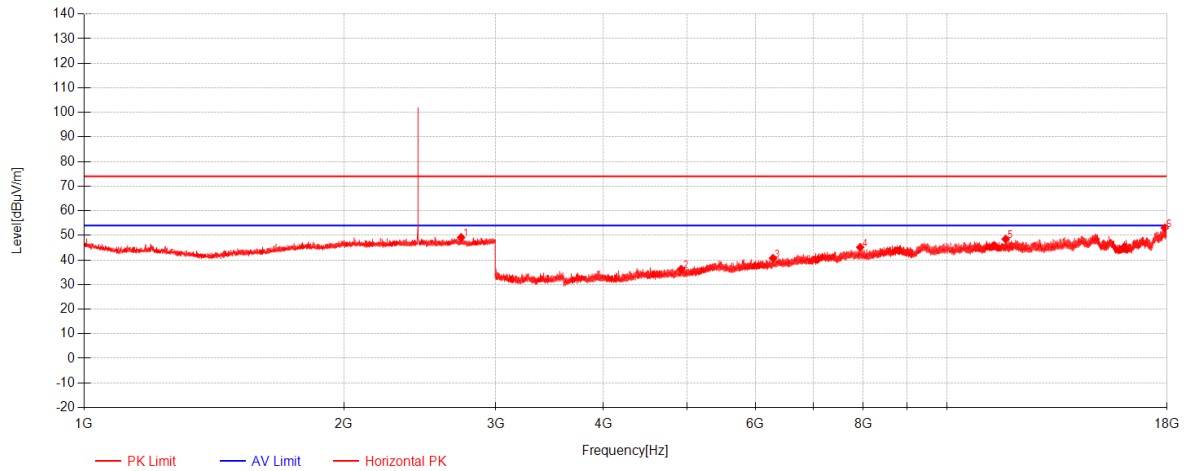
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 2676            | 44.71          | 27.52     | -23.13      | 49.10          | 74.00          | 24.90       | Horizontal |
| -         | -               | -              | -         | -           | 24.28          | 54.00          | 29.72       | -          |
| 2         | 3610.5          | 50.89          | 28.68     | -48.30      | 31.26          | 74.00          | 41.74       | Horizontal |
| -         | -               | -              | -         | -           | 6.44           | 54.00          | 47.56       | -          |
| 3         | 5746.125        | 54.37          | 32.70     | -47.56      | 39.50          | 74.00          | 34.50       | Horizontal |
| -         | -               | -              | -         | -           | 14.68          | 54.00          | 39.32       | -          |
| 4         | 8526.75         | 52.71          | 36.88     | -44.20      | 45.39          | 74.00          | 28.61       | Horizontal |
| -         | -               | -              | -         | -           | 20.57          | 54.00          | 33.43       | -          |
| 5         | 11993.625       | 49.59          | 39.40     | -39.46      | 49.53          | 74.00          | 24.47       | Horizontal |
| -         | -               | -              | -         | -           | 24.71          | 54.00          | 29.29       | -          |
| 6         | 17799.375       | 47.56          | 43.60     | -38.19      | 52.96          | 74.00          | 21.04       | Horizontal |
| -         | -               | -              | -         | -           | 28.14          | 54.00          | 25.86       | -          |

## BT\_DH5\_TX\_CH\_00\_Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2744.3333       | 43.79          | 27.64     | -23.10      | 48.33          | 74.00          | 25.67       | Vertical |
| -         | -               | -              | -         | -           | 23.51          | 54.00          | 30.49       | -        |
| 2         | 3799.5          | 53.85          | 28.98     | -48.18      | 34.65          | 74.00          | 39.35       | Vertical |
| -         | -               | -              | -         | -           | 9.83           | 54.00          | 44.17       | -        |
| 3         | 5934.375        | 54.73          | 32.77     | -47.27      | 40.23          | 74.00          | 33.77       | Vertical |
| -         | -               | -              | -         | -           | 15.41          | 54.00          | 38.59       | -        |
| 4         | 7547.625        | 53.33          | 36.39     | -45.41      | 44.31          | 74.00          | 29.69       | Vertical |
| -         | -               | -              | -         | -           | 19.49          | 54.00          | 34.51       | -        |
| 5         | 9416.625        | 52.43          | 37.98     | -42.94      | 47.48          | 74.00          | 26.52       | Vertical |
| -         | -               | -              | -         | -           | 22.66          | 54.00          | 31.34       | -        |
| 6         | 17891.25        | 46.51          | 44.15     | -38.15      | 52.50          | 74.00          | 21.50       | Vertical |
| -         | -               | -              | -         | -           | 27.68          | 54.00          | 26.32       | -        |

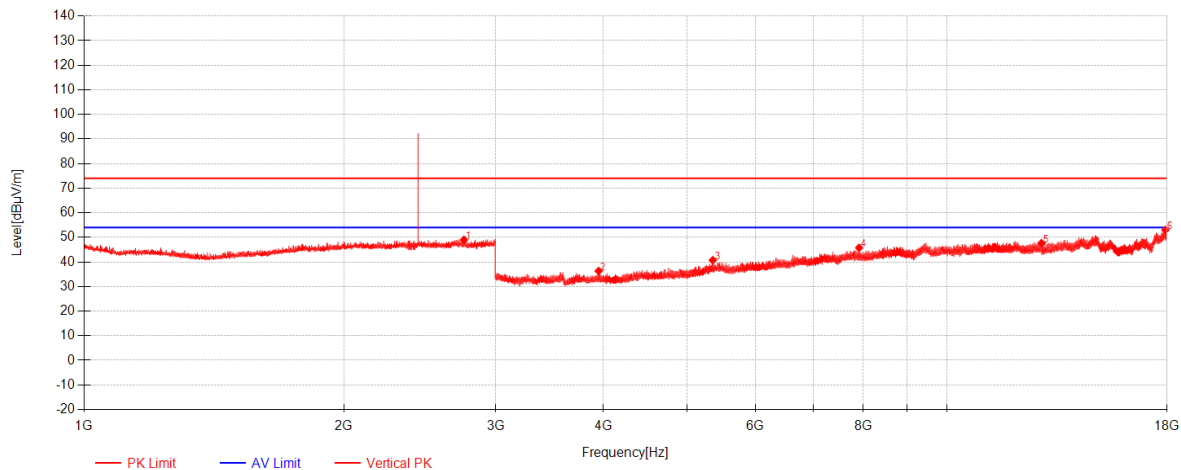
## BT\_DH5\_TX\_CH\_39\_Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 2735.3333       | 44.60          | 27.62     | -23.07      | 49.15          | 74.00          | 24.85       | Horizontal |
| -         | -               | -              | -         | -           | 24.33          | 54.00          | 29.67       | -          |
| 2         | 4921.875        | 53.23          | 31.03     | -48.03      | 36.23          | 74.00          | 37.77       | Horizontal |
| -         | -               | -              | -         | -           | 11.41          | 54.00          | 42.59       | -          |
| 3         | 6287.625        | 54.15          | 33.89     | -47.35      | 40.69          | 74.00          | 33.31       | Horizontal |
| -         | -               | -              | -         | -           | 15.87          | 54.00          | 38.13       | -          |
| 4         | 7935.375        | 53.87          | 36.31     | -45.04      | 45.14          | 74.00          | 28.86       | Horizontal |
| -         | -               | -              | -         | -           | 20.32          | 54.00          | 33.68       | -          |
| 5         | 11700.375       | 48.70          | 39.43     | -39.66      | 48.47          | 74.00          | 25.53       | Horizontal |
| -         | -               | -              | -         | -           | 23.65          | 54.00          | 30.35       | -          |
| 6         | 17885.625       | 47.09          | 44.11     | -38.16      | 53.05          | 74.00          | 20.95       | Horizontal |
| -         | -               | -              | -         | -           | 28.23          | 54.00          | 25.77       | -          |

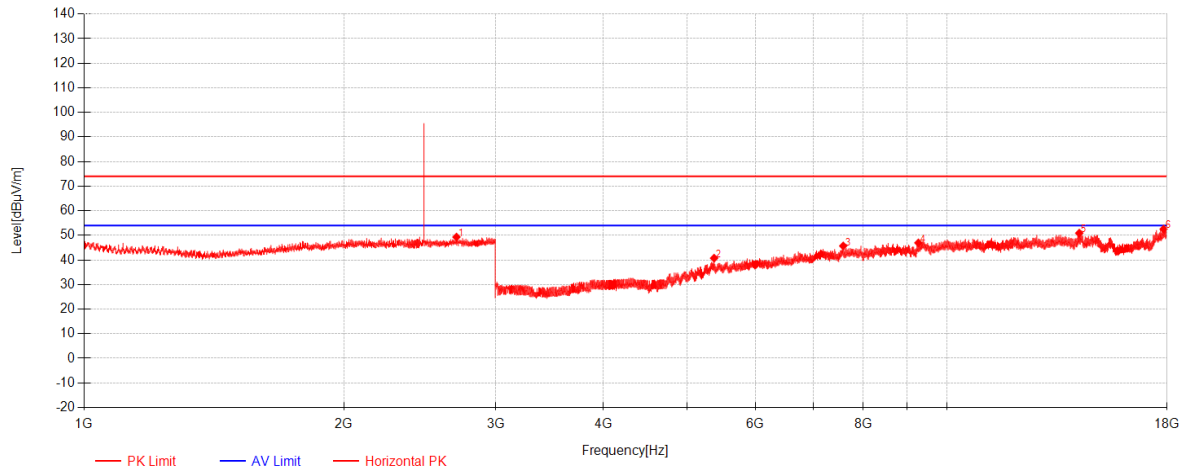


BT\_DH5\_TX\_CH\_39\_Vertical



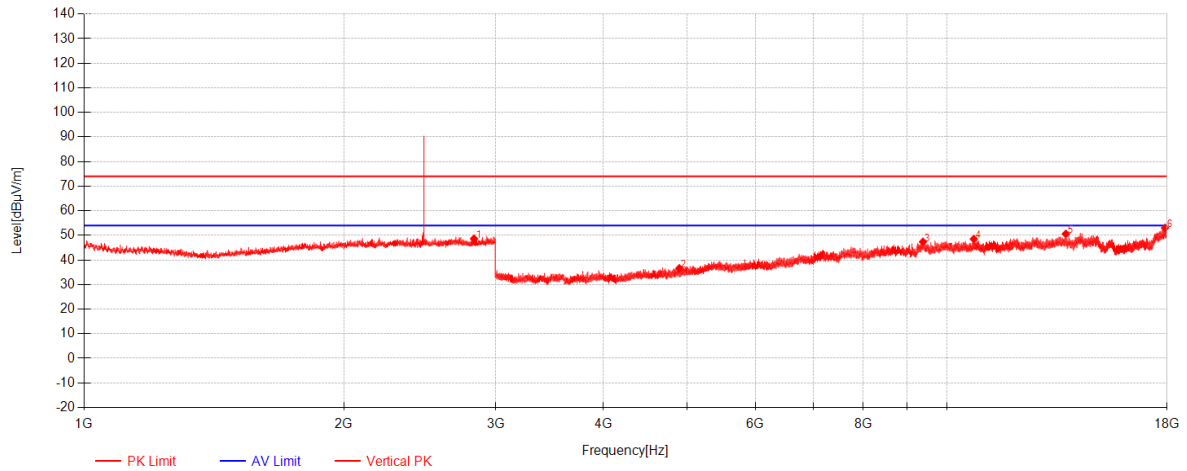
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2756.3333       | 44.46          | 27.66     | -23.14      | 48.98          | 74.00          | 25.02       | Vertical |
| -         | -               | -              | -         | -           | 24.16          | 54.00          | 29.84       | -        |
| 2         | 3948            | 55.33          | 29.22     | -48.24      | 36.31          | 74.00          | 37.69       | Vertical |
| -         | -               | -              | -         | -           | 11.49          | 54.00          | 42.51       | -        |
| 3         | 5353.875        | 56.26          | 32.19     | -47.75      | 40.70          | 74.00          | 33.30       | Vertical |
| -         | -               | -              | -         | -           | 15.88          | 54.00          | 38.12       | -        |
| 4         | 7912.5          | 54.74          | 36.32     | -45.31      | 45.75          | 74.00          | 28.25       | Vertical |
| -         | -               | -              | -         | -           | 20.93          | 54.00          | 33.07       | -        |
| 5         | 12871.875       | 48.16          | 38.88     | -39.39      | 47.64          | 74.00          | 26.36       | Vertical |
| -         | -               | -              | -         | -           | 22.82          | 54.00          | 31.18       | -        |
| 6         | 17916.75        | 46.96          | 44.30     | -38.28      | 52.98          | 74.00          | 21.02       | Vertical |
| -         | -               | -              | -         | -           | 28.16          | 54.00          | 25.84       | -        |

## BT\_DH5\_TX\_CH\_78\_Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 2701.6667       | 44.72          | 27.56     | -22.97      | 49.32          | 74.00          | 24.68       | Horizontal |
| -         | -               | -              | -         | -           | 24.50          | 54.00          | 29.50       | -          |
| 2         | 5373            | 56.23          | 32.24     | -47.74      | 40.74          | 74.00          | 33.26       | Horizontal |
| -         | -               | -              | -         | -           | 15.92          | 54.00          | 38.08       | -          |
| 3         | 7583.25         | 54.15          | 36.38     | -44.84      | 45.70          | 74.00          | 28.30       | Horizontal |
| -         | -               | -              | -         | -           | 20.88          | 54.00          | 33.12       | -          |
| 4         | 9268.5          | 52.26          | 37.78     | -43.09      | 46.95          | 74.00          | 27.05       | Horizontal |
| -         | -               | -              | -         | -           | 22.13          | 54.00          | 31.87       | -          |
| 5         | 14240.625       | 49.20          | 40.28     | -38.56      | 50.91          | 74.00          | 23.09       | Horizontal |
| -         | -               | -              | -         | -           | 26.09          | 54.00          | 27.91       | -          |
| 6         | 17832.75        | 46.94          | 43.80     | -38.18      | 52.56          | 74.00          | 21.44       | Horizontal |
| -         | -               | -              | -         | -           | 27.74          | 54.00          | 26.26       | -          |

## BT\_DH5\_TX\_CH\_78\_Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2831.3333       | 44.02          | 27.80     | -23.19      | 48.63          | 74.00          | 25.37       | Vertical |
| -         | -               | -              | -         | -           | 23.81          | 54.00          | 30.19       | -        |
| 2         | 4896.75         | 53.65          | 30.97     | -48.03      | 36.59          | 74.00          | 37.41       | Vertical |
| -         | -               | -              | -         | -           | 11.77          | 54.00          | 42.23       | -        |
| 3         | 9381            | 52.44          | 37.93     | -43.02      | 47.36          | 74.00          | 26.64       | Vertical |
| -         | -               | -              | -         | -           | 22.54          | 54.00          | 31.46       | -        |
| 4         | 10746.75        | 50.07          | 39.32     | -40.87      | 48.52          | 74.00          | 25.48       | Vertical |
| -         | -               | -              | -         | -           | 23.70          | 54.00          | 30.30       | -        |
| 5         | 13734.75        | 49.02          | 39.90     | -38.33      | 50.59          | 74.00          | 23.41       | Vertical |
| -         | -               | -              | -         | -           | 25.77          | 54.00          | 28.23       | -        |
| 6         | 17902.5         | 46.97          | 44.22     | -38.17      | 53.02          | 74.00          | 20.98       | Vertical |
| -         | -               | -              | -         | -           | 28.20          | 54.00          | 25.80       | -        |

## 7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)  
Test Method: ANSI C63.10-2020/Cor1-2023 Section 7.8.5

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

### 7.4.1 E.U.T. Operation

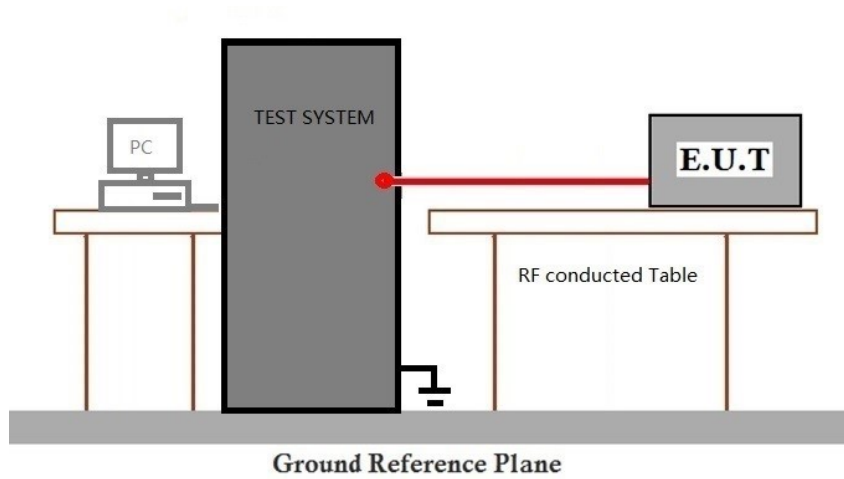
Operating Environment:

Temperature: 22 °C Humidity: 43 % RH Atmospheric Pressure: 1021 mbar

### 7.4.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                        |
|--------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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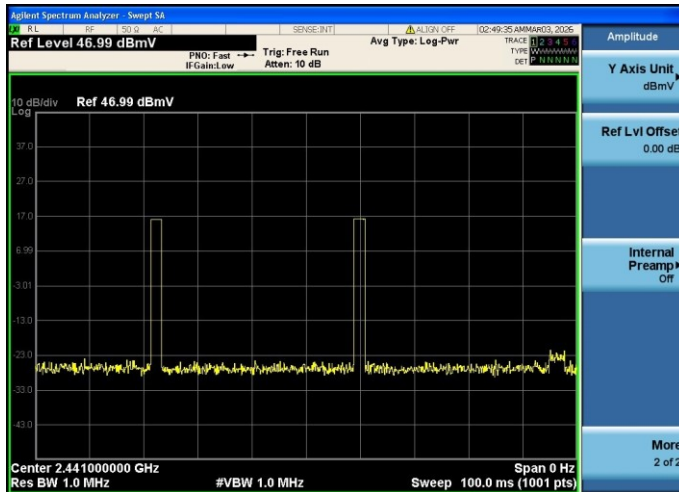
## 8 Test Setup Photo

Refer to Appendix\_Photos of Test Setup for SUCR2601000074AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix\_External Photos for SUCR2601000074AT and Appendix\_Internal Photos for SUCR2601000074AT

## 10 Appendix



Count Pulses=2

| Ant2      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 1.000                    | 0.966                | $\geq 0.644$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.000                    | 1.289                | $\geq 0.859$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 1.000                    | 1.311                | $\geq 0.874$ | Pass    |

Note:

Channel separation correction

DH5: Channel Separation  $\geq 1$ MHz, Channel separation correction=1

2DH5: Channel Separation  $\geq 1$ MHz, Channel separation correction=1

3DH5: Channel Separation  $\geq 1$ MHz, Channel separation correction=1

Overlapping channel correction

DH5: Overlapping channel correction = 0, 20dB Bandwidth < Channel Separation

2DH5: Overlapping channel correction = 1, 20dB Bandwidth > Channel Separation

3DH5: Overlapping channel correction = 1, 20dB Bandwidth > Channel Separation

| Test mode | Dwell time per 100 ms | Channel separation correction | Overlapping channel correction | Maximum dwell time |
|-----------|-----------------------|-------------------------------|--------------------------------|--------------------|
| DH5       | 2*2.871               | 1                             | 0                              | 5.742              |
| 2DH5      | 2*2.871               | 1                             | 1                              | 11.484             |
| 3DH5      | 2*2.871               | 1                             | 1                              | 11.484             |



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Note: Maximum dwell time per 1MHz= Dwell time per 100 ms per Channel\*(Channel separation correction+ Overlapping channel correction)

| Test Mode | Correction Factor |
|-----------|-------------------|
| DH5       | -24.82            |
| 2DH5      | -18.80            |
| 3DH5      | -18.80            |

Correction Factor=20\*log(Maximum dwell time in 100 ms/100)

## 1. Maximum Conducted Output Power

### 1.1 Test Result

#### 1.1.1 Power

| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |         | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|---------|---------|
|           |         |                 |             | ANT2                                      | Limit   |         |
| GFSK      | SISO    | 2402            | DH5         | 13.32                                     | <=30    | Pass    |
|           |         | 2441            | DH5         | 13.11                                     | <=30    | Pass    |
|           |         | 2480            | DH5         | 12.63                                     | <=30    | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 7.11                                      | <=20.97 | Pass    |
|           |         | 2441            | 2DH5        | 6.98                                      | <=20.97 | Pass    |
|           |         | 2480            | 2DH5        | 7.19                                      | <=20.97 | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 7.32                                      | <=20.97 | Pass    |
|           |         | 2441            | 3DH5        | 7.01                                      | <=20.97 | Pass    |
|           |         | 2480            | 3DH5        | 7.28                                      | <=20.97 | Pass    |

Note1: Antenna Gain: Ant2: 0.5dBi;

- End of the Report -