# TEST REPORT

| | |
|---|---|
| **Applicant:** | Quectel Wireless Solutions Co., Ltd. |
| **EUT Description:** | Smart Module with Wi-Fi 5G & Bluetooth |
| **Model:** | SG565D-WF |
| **Brand:** | QUECTEL |
| **FCC ID:** | XMR2025SG565DWF |
| **Standards:** | FCC 47 CFR Part 15 Subpart C |
| **Date of Receipt:** | 2025/11/17 |
| **Date of Test:** | 2025/11/17 to 2025/12/29 |
| **Date of Issue:** | 2025/12/29 |

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.

ACCREDITED
CERTIFICATE #7088.01

**Jim Huang**
**Approved By:**

**Carey Chen**
**Reviewed By:**


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# Revision History

| Rev. | Issue Date | Description | Revised by |
|---|---|---|---|
| 01 | 2025/12/29 | Original | Carey Chen |


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# Summary of Test Results

| Clause | FCC Part | Test Items | Result |
|---|---|---|---|
| 4.1 | §15.203/15.247(b) | Antenna Requirement | Reference report TCWA25030013002 |
| 4.2 | §15.207 | AC Power Line Conducted Emission | |
| 4.3 | §15.247 (b)(3) | Output Power | |
| 4.4 | §15.247 (a)(2) | Occupied Bandwidth | |
| 4.5 | §15.247 (e) | Power Spectral Density | |
| 4.6 | §15.247(d) | Band Edge for Conducted Emissions | |
| 4.7 | §15.247(d) | Spurious RF Conducted Emissions | |
| 4.8 | §15.205<br>§15.209 | Radiated Spurious emissions and Band Edge | PASS |
| Test Method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024,<br>KDB 558074 D01 15.247 Mesa Guidance v05r02.<br>Remark: Pass is EUT meets standard requirements. | | | |

Remark:

In this report the worst data of Radiated Spurious emissions and Band Edge were spot checked, and all the other data please refer to the previous report with report number (TCWA25030013002).


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# 1 General Description

## 1.1 Lab Information

### 1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014
Tel.: +86-755-27212361
Contact Email: info@towewireless.com

### 1.1.2 Test Facility / Accreditations

**A2LA (Certificate Number: 7088.01)**
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

**FCC Designation No.: CN1353**
Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

**ISED CAB identifier: CN0152**
Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0152
Company Number: 31000

## 1.2 Client Information

### 1.2.1 Applicant

| | |
|---|---|
| Applicant: | Quectel Wireless Solutions Co., Ltd. |
| Address: | No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China |

### 1.2.2 Manufacturer

| | |
|---|---|
| Manufacturer: | Quectel Wireless Solutions Co., Ltd. |
| Address: | No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China |


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## 1.3 Product Information

| | | |
|---|---|---|
| EUT Description: | Smart Module with Wi-Fi 5G & Bluetooth | |
| Model: | SG565D-WF | |
| Brand: | QUECTEL | |
| Hardware Version: | R1.0 | |
| Software Version: | SG5X5DWFPAR03A01 | |
| SN: | D1Y25IS2B000056 | |
| Bluetooth version: | Bluetooth V5.0 | |
| Support Mode: | ☒LE 1M PHY:1Mbps | ☐LE 2M PHY:2Mbps |
| Modulation Type: | GFSK | |
| Frequency Range: | 2400 ~ 2483.5MHz | |
| Channel Frequency: | 2402 ~ 2480MHz | |
| Channel Number: | 40 | |
| Antenna Type: | ☒ External, ☐ Integrated | |
| Antenna Gain: | Ant0 (dBi) | |
| | 0.47 | |
| Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description. | | |


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# 2 Test Configuration

## 2.1 Test Channel

| Operation Frequency of each channel for GFSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Channel** | **Frequency** | **Channel** | **Frequency** | **Channel** | **Frequency** | **Channel** | **Frequency** |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

Remark:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test Channel | Test Frequency |
|---|---|
| The Lowest channel(CH0) | 2402MHz |
| The Middle channel(CH19) | 2440MHz |
| The Highest channel(CH39) | 2480MHz |


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## 2.2 Worst-case configuration and Mode

| | |
|---|---|
| Modulation Type | LE 1M PHY |
| Transmitting mode | Keep the EUT was programmed to be in continuously transmitting mode |
| Normal Link | Keep the EUT operation to normal function. |

## 2.3 Support Unit used in test

| Description | Manufacturer | Model | Serial Number |
|---|---|---|---|
| Development Board* | Quectel | SMART-5G-EVB | E1Q22HV3A000015 |
| Development Board* | Quectel | SG555D-WF-TE-A | E1Y24KM4M000002 |
| Remark: *the information are provided by applicant. | | | |

## 2.4 Test Environment

| | |
|---|---|
| **Temperature:** | Normal: 15℃ ~ 35℃ |
| **Humidity:** | 45-56 % RH Ambient |
| **Voltage:** | DC 4.00V (Module Input) |
| Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment. | |

## 2.5 Test RF Cable

**For all conducted test items**: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.

## 2.6 Modifications

No modifications were made during testing.


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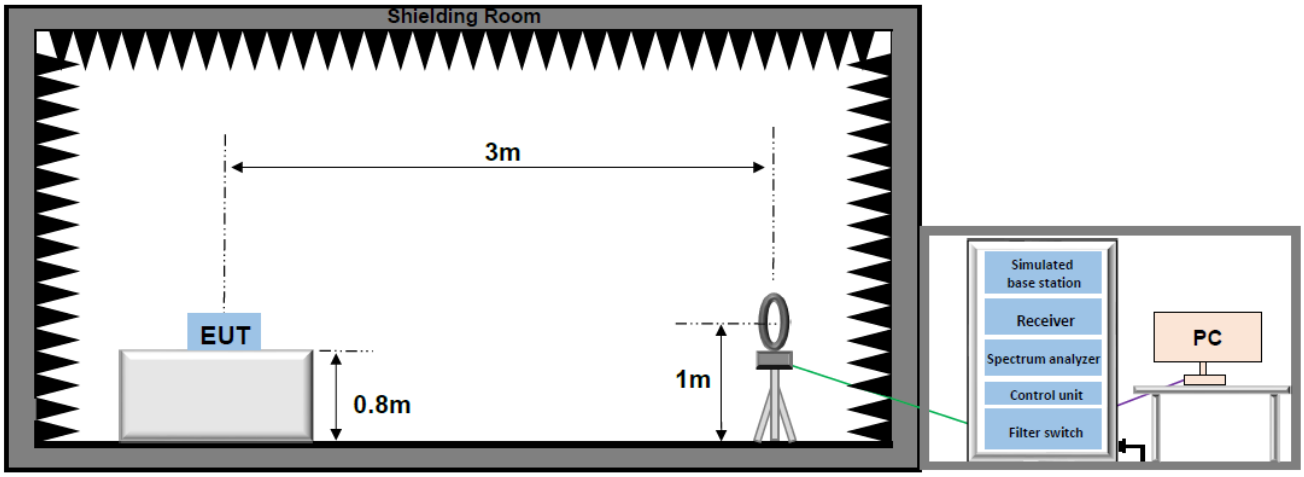
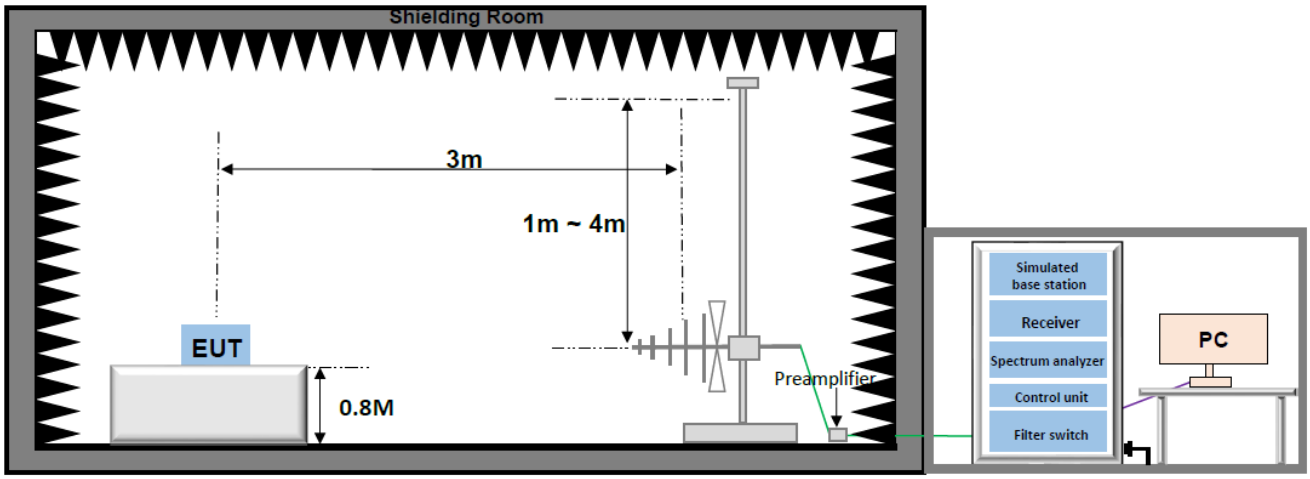
## 2.7 Test Setup Diagram

### 2.7.1 Radiated Configuration

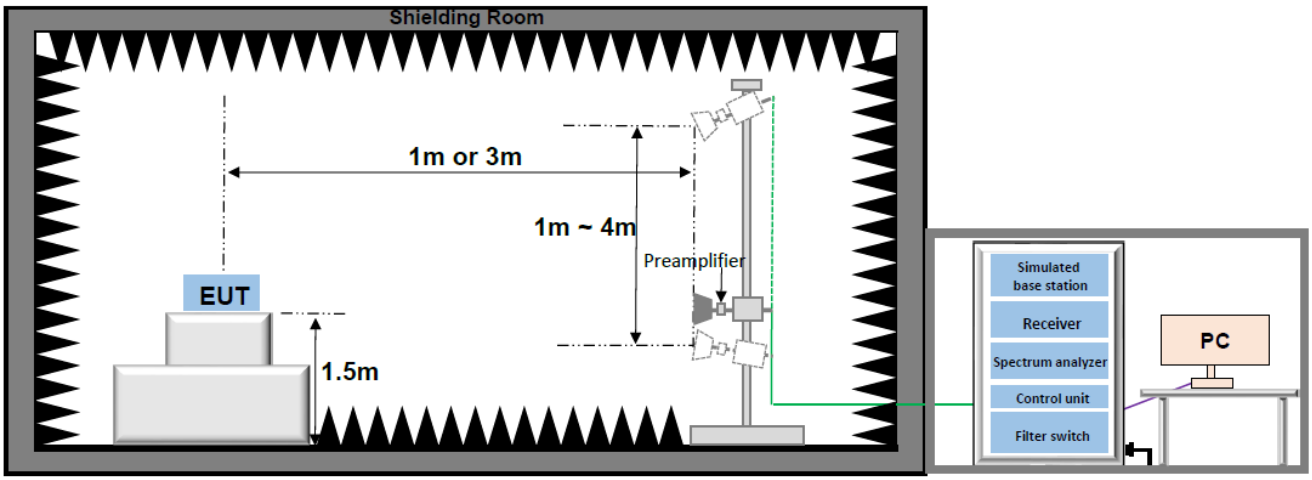
Setup 1




Setup 2




Setup 3





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# 3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

## 3.1 Test Equipment List

| Radiated Emission | | | | | |
|---|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **S.N.** | **Last Due** | **Cal Due** |
| Biconic Logarithmic Periodic Antennas | Schwarzbeck | VULB9163 | 1643 | 2023/06/25 | 2026/06/24 |
| Double-Ridged Horn Antennas | Schwarzbeck | BBHA 9120D | 2809 | 2023/06/25 | 2026/06/24 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 1290 | 2023/06/25 | 2026/06/24 |
| Loop Antenna | Schwarzbeck | FMZB 1519C | 1519C-028 | 2023/06/29 | 2026/06/28 |
| Signal Analyzer | Keysight | N9020A | MY49100252 | 2025/03/11 | 2026/03/10 |
| EXA Signal Analyzer, Multi-touch | Keysight | N9010B | MY63440541 | 2025/05/29 | 2026/05/28 |
| Wideband Radio Communication Tester | R&S | CMW500 | 150645 | 2025/03/11 | 2026/03/10 |
| Low Noise Amplifier | Tonscend | TAP9K3G40 | AP23A8060273 | 2025/03/11 | 2027/03/10 |
| Low Noise Amplifier | Tonscend | TAP01018050 | AP22G806258 | 2025/03/11 | 2027/03/10 |
| Low Noise Amplifier | Tonscend | TAP18040048 | AP22G806247 | 2025/03/11 | 2027/03/10 |
| Hygrometer | BINGYU | HTC-1 | N/A | 2025/07/25 | 2026/07/24 |
| Band Reject Filter Group | Townshend | JS0806-F | 23A806F0652 | N/A | N/A |
| Test Software | Tonscend | TS+ | Version: 5.0.0 | N/A | N/A |

## 3.2 Measurement Uncertainty

| Parameter | $U_{lab}$ |
|---|---|
| Radiated Emissions(9kHz~30MHz) | 2.40dB |
| Radiated Emissions(30MHz~1000MHz) | 4.66dB |
| Radiated Emissions(1GHz~18GHz) | 5.42dB |
| Radiated Emissions(18GHz~40GHz) | 5.46dB |

Uncertainty figures are valid to a confidence level of 95%


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# 4 Test Results

## 4.1 Radiated Spurious Emissions and Band Edge

**Limits**

Spurious emissions are permitted in an of the frequency bands:

| MHz | MHz | MHz | MHz | GHz | GHz |
|---|---|---|---|---|---|
| 0.090 - 0.110 | 12.29 - 12.293 | 149.9 - 150.05 | 1660 - 1710 | 4.5 - 5.15 | 14.47 - 14.5 |
| 0.495 - 0.505 | 12.51975 - 1252025 | 156.52475 - 156.52525 | 1718.8 - 1722.2 | 5.35 - 5.46 | 15.35 - 16.2 |
| 2.1735 - 2.1905 | 12.5767 - 12.57725 | 156.7 - 156.9 | 2200 - 2300 | 7.25 - 7.75 | 17.7 - 21.4 |
| 4.125 - 128 | 13.36 - 13.41 | 162.0125 - 167.17 | 2310 - 2390 | 8.025 - 8.5 | 22.01 - 23.12 |
| 4.17725 - 4.17775 | 16.42 - 16.423 | 167.72 - 173.2 | 2483.5 - 2500 | 9.0 - 9.2 | 23.6 - 24.0 |
| 4.20725 - 4.20775 | 16.69475 - 16.69525 | 240 - 285 | 2655 - 2900 | 9.3 - 9.5 | 31.2 - 31.8 |
| 6.215 - 6.218 | 1680425 - 1680475 | 322 - 335.4 | 3260 - 3267 | 10.6 - 12.7 | 36.43 - 36.5 |
| 6.26775 - 6.26825 | 25.5 - 25.67 | 399.9 - 410 | 3332 - 3339 | 13.25 - 13.4 | |
| 6.31175 - 6.31225 | 37.5 - 38.25 | 608 - 614 | 3345.8 - 3358 | | |
| 8.291 - 8.294 | 73 - 74.6 | 960 - 1240 | 3600 - 4400 | | |
| 8.362 - 8.366 | 74.8 - 75.2 | 1300 - 1427 | | | |
| 8.37625 - 8.38675 | 108 - 121.94 | 1435 - 1626.5 | | | |
| 8.41425 - 8.41475 | 123 - 138 | 1645.5 - 1646.5 | | | |

Radiated disturbance of an intentional radiator:

| Frequency | Field strength (μV/m) | Limit (dBμV/m | Remark | Measurement distance (m) |
|---|---|---|---|---|
| 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| 1.705MHz-30MHz | 30 | - | - | 30 |
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 500 | 74.0 | Peak | 3 |
| | | 54.0 | Average | |

**Test Procedure**

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 6.4 & 6.5 & 6.6

**Test Settings**

1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
4. For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.


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7. spectrum analyzer setting:
   Measurements Below 1000MHz: RBW = 120 kHz; VBW ≥ 300 kHz; Detector = Peak
   Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = Peak
   Average Measurements Above 1000MHz:
   RBW = 1 MHz, VBW ≥ 1/T, with peak detector for average measurements.
8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:
   Level = Reading(dBμV) + Factor(dB):
   Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
   AF = Antenna Factor(dB/m)
   Margin = Limit(dBμV/m) – Level(dBμV/m)
9. Repeat above procedures until all frequencies measured was complete.
10. Measure and record the results in the test report.

**Test Notes**

1. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
2. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
3. These frequencies which near "-" should be ignored because they are Fundamental frequency.

**Test Setup**

Refer to section 2.7.1 for details.

**Measuring Instruments**

The measuring equipment is listed in the section 3.1 of this test report.

**Test Result**

The detailed test data see: **Appendix.**


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# 5 Test Setup Photos

The detailed test data see: **Appendix-A BTWIFI Setup Photos**


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# Appendix

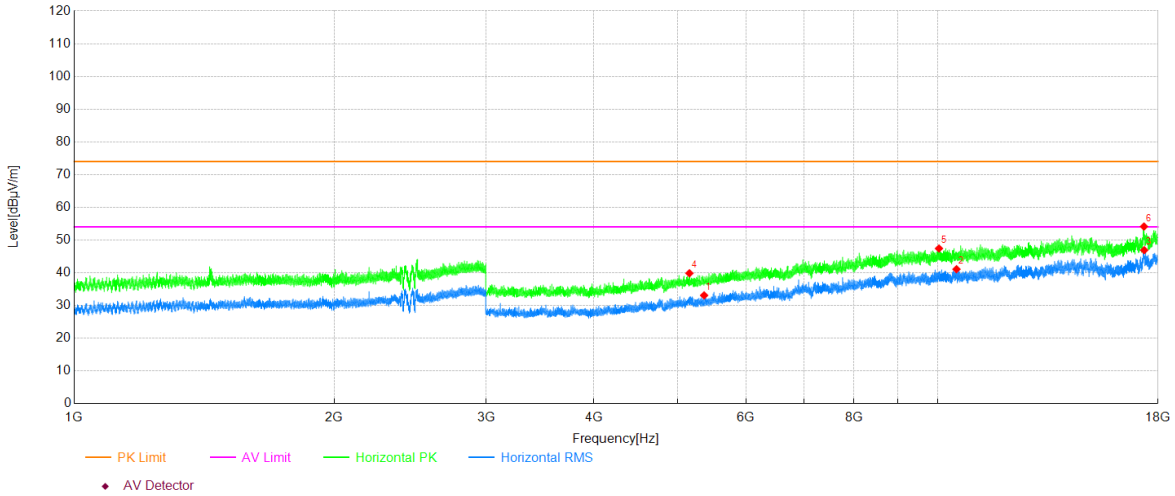
## Radiated Spurious Emissions

## Test for spot check:

### Test Result

| Project Information | | | |
|---|---|---|---|
| Mode: | BLE_1M | Band: | - |
| Bandwidth | - | Channel | 39 |
| SN: | D1Y25IS2B000056 | Engineer: | Tian Shuo |
| Remark: | - | | |

**Test Graph**




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Verdict |
| 1 | 5365.00 | 39.78 | -6.68 | 33.10 | 54.00 | 20.90 | Horizontal | PASS |
| 2 | 10516.00 | 37.15 | 3.94 | 41.09 | 54.00 | 12.91 | Horizontal | PASS |
| 3 | 17349.00 | 34.09 | 12.82 | 46.91 | 54.00 | 7.09 | Horizontal | PASS |
| 4 | 5159.50 | 46.59 | -6.74 | 39.85 | 74.00 | 34.15 | Horizontal | PASS |
| 5 | 10035.50 | 43.72 | 3.70 | 47.42 | 74.00 | 26.58 | Horizontal | PASS |
| 6 | 17340.00 | 41.73 | 12.40 | 54.13 | 74.00 | 19.87 | Horizontal | PASS |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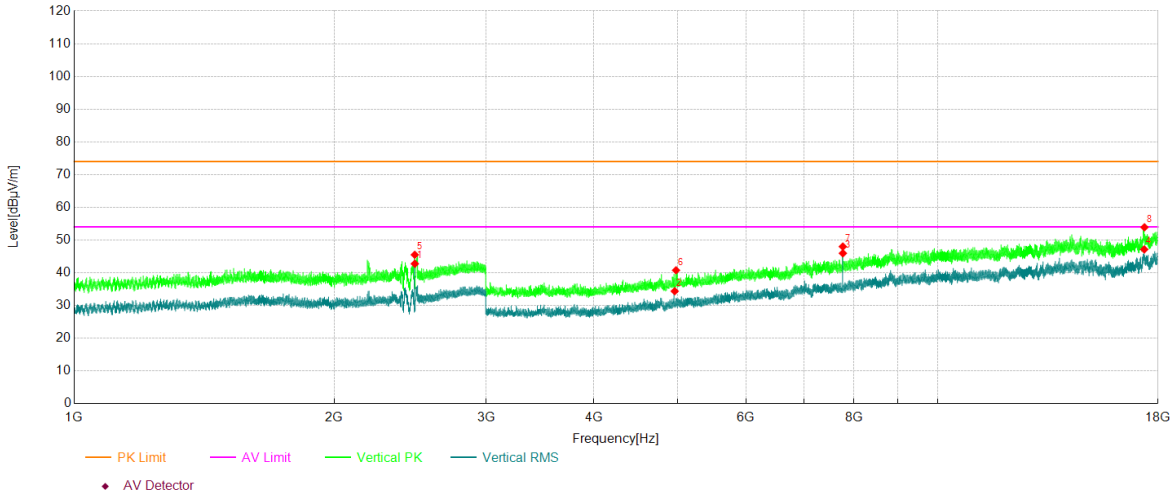
| Project Information | | | |
|---|---|---|---|
| Mode: | BLE_1M | Band: | - |
| Bandwidth | - | Channel | 39 |
| SN: | D1Y25IS2B000056 | Engineer: | Tian Shuo |
| Remark: | - | | |

**Test Graph**




**Data List**

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Verdict |
|---|---|---|---|---|---|---|---|---|
| 1 | 2480.30 | 40.39 | 2.37 | 42.76 | - | - | Vertical | NA |
| 2 | 4960.50 | 41.92 | -7.55 | 34.37 | 54.00 | 19.63 | Vertical | PASS |
| 3 | 7767.00 | 47.05 | -1.10 | 45.95 | 54.00 | 8.05 | Vertical | PASS |
| 4 | 17350.50 | 34.30 | 12.84 | 47.14 | 54.00 | 6.86 | Vertical | PASS |
| 5 | 2480.20 | 43.13 | 2.37 | 45.50 | - | - | Vertical | NA |
| 6 | 4978.00 | 48.34 | -7.57 | 40.77 | 74.00 | 33.23 | Vertical | PASS |
| 7 | 7767.00 | 49.11 | -1.10 | 48.01 | 74.00 | 25.99 | Vertical | PASS |
| 8 | 17359.50 | 41.41 | 12.49 | 53.90 | 74.00 | 20.10 | Vertical | PASS |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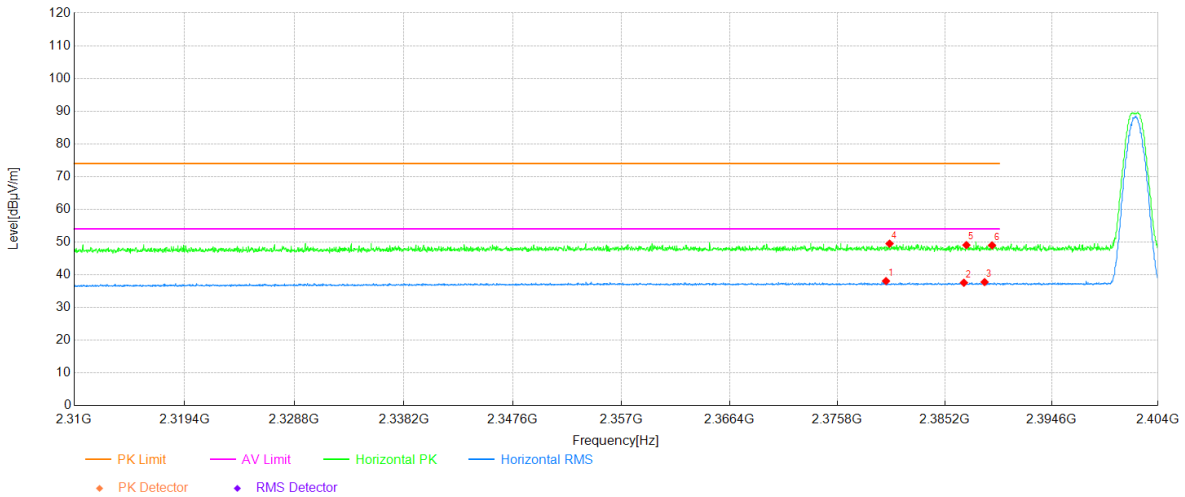
# Radiated Band Edge

## Test for spot check:

### Test Result

| Project Information | | | |
|---|---|---|---|
| Mode: | BLE_1M | Band: | - |
| Bandwidth | - | Channel | 0 |
| SN: | D1Y25IS2B000056 | Engineer: | Tian Shuo |
| Remark: | - | | |

**Test Graph**




**Data List**

| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity | Verdict |
|---|---|---|---|---|---|---|---|---|
| 1 | 2380.05 | 36.66 | 1.43 | 38.09 | 54.00 | 15.91 | Horizontal | PASS |
| 2 | 2386.89 | 36.15 | 1.42 | 37.57 | 54.00 | 16.43 | Horizontal | PASS |
| 3 | 2388.70 | 36.34 | 1.43 | 37.77 | 54.00 | 16.23 | Horizontal | PASS |
| 4 | 2380.37 | 48.08 | 1.43 | 49.51 | 74.00 | 24.49 | Horizontal | PASS |
| 5 | 2387.11 | 47.65 | 1.42 | 49.07 | 74.00 | 24.93 | Horizontal | PASS |
| 6 | 2389.36 | 47.56 | 1.43 | 48.99 | 74.00 | 25.01 | Horizontal | PASS |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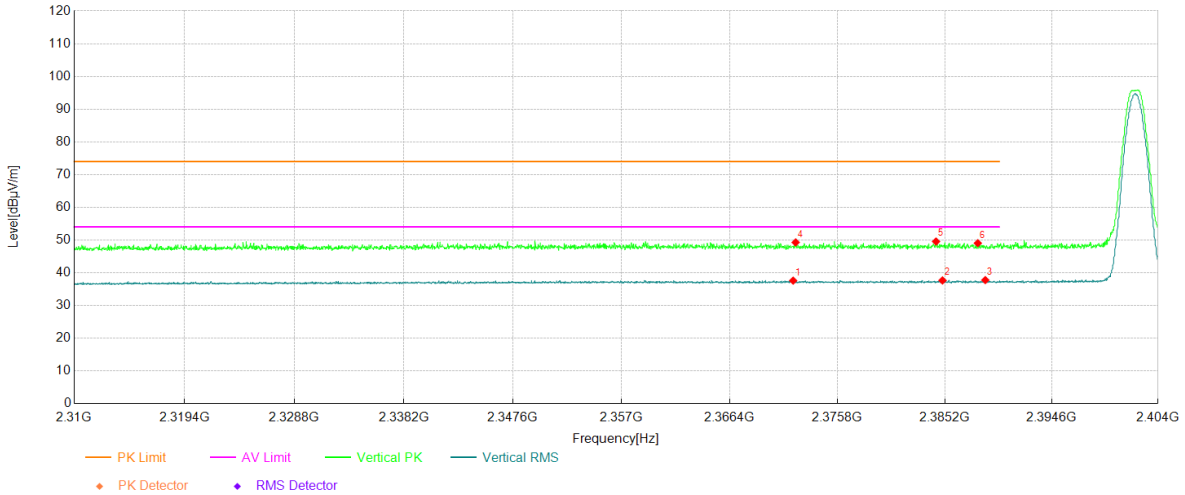
| Project Information | | | |
|---|---|---|---|
| Mode: | BLE_1M | Band: | - |
| Bandwidth | - | Channel | 0 |
| SN: | D1Y25IS2B000056 | Engineer: | Tian Shuo |
| Remark: | - | | |

**Test Graph**




**Data List**

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Verdict |
|---|---|---|---|---|---|---|---|---|
| 1 | 2371.94 | 36.17 | 1.43 | 37.60 | 54.00 | 16.40 | Vertical | PASS |
| 2 | 2385.01 | 36.23 | 1.43 | 37.66 | 54.00 | 16.34 | Vertical | PASS |
| 3 | 2388.77 | 36.34 | 1.43 | 37.77 | 54.00 | 16.23 | Vertical | PASS |
| 4 | 2372.15 | 47.85 | 1.43 | 49.28 | 74.00 | 24.72 | Vertical | PASS |
| 5 | 2384.44 | 48.13 | 1.43 | 49.56 | 74.00 | 24.44 | Vertical | PASS |
| 6 | 2388.11 | 47.62 | 1.43 | 49.05 | 74.00 | 24.95 | Vertical | PASS |

~The End~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