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TEST REPORT

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FCC ID: 2AXYP-OTW-323P-L Product: True Wireless Earbuds WSCT Model No.: OTW-323P Trade Mark: oraimo Report No.: WSCT-ANAB-R&E250300014A-BT Issued Date: 14 March 20255CT

Issued for: 27

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

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| WS Report N | O WSCT-ANAB-R | &E250300014A-BT WSCT WSCT |
| | Test Certif | |
| Pr | oduct: | True Wireless Earbuds WSCT WSCT WSCT |
| М | odel No.: | OTW-323P |
| | ditional W51 | oraimo WSCT WSCT WSCT |
| | odel: oplicant: | ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| WSCT Ma | anufacturer: WSL | ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| Da | ate of receipt: | 03 March 2025 |
| Da | ate of Test: | 04 March 2025 ~ 13 March 2025 W5CT W5CT |
| St | oplicable andards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |
| | | nent has been tested by World Standardization Certification & Testing |
| teci pro | hnical standards duct system, wh | Co., Ltd. and found compliance with the requirements set forth in the s mentioned above. The results of testing in this report apply only to the nich was tested. Other similar equipment will not necessarily produce the p production tolerance and measurement uncertainties. |
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| WSLT | WS | CT WSCT WSCT WSCT |
| | Tested By: | Wang Xiang Checked By: Circhi 9 |
| X | WSET WS | (Wang Xiang) WSET (Qin Shuiquan) WS UZSET WSET WSET WSET |
| WSET Ap | proved By: | (Li Huaibi) Date: March 2025 |
| () | WSET | WSET WSET WSET WSET |
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Test Result Summary 2.

| 2 | harrow harrow | | hand | | | |
|--|---|--|------------------|----------------|--|--|
| | Requirement | CFR 47 Section | Result | WSCT | | |
| | Antenna Requirement | §15.203/§15.247 (c) | PASS | | | |
| WSET | AC Power Line Conducted Emission | WSET §15.207 WSET | N/A | \checkmark | | |
| | Maximum conducted output | | PASS | WSET | | |
| WSET | 20dB Occupied Bandwidth | §15.247 (a)(1) §2.1049 | PASS | | | |
| | Carrier Frequencies Separation | §15.247 (a)(1) | PASS | \mathbf{i} | | |
| | Hopping Channel Number | §15.247 (a)(1) | PASS | WSET | | |
| \sim | Dwell Time | §15.247 (a)(1) | PASS | | | |
| WSET | Radiated Emission | §15.205/§15.209 §2.1053, §2.1057 W5 C7 | PASS | | | |
| | Band Edge | §15.247(d) §2.1051, §2.1057 | PASS | WISTER | | |
| Note: 1. PASS: Test item meets the requirement. 2. Fail: Test item does not meet the requirement. 3. N/A: Test case does not apply to the test object. | | | | | | |
| | 4. The test result judgment is decide | | WSET | WSET | | |
| WISET WISET WISET WISET | | | | | | |
| | WSET | $\langle X \rangle$ | \times | 7650 | | |
| WISET | WSET | WSET WSET | WSET Contraction | Group Shenzhen | | |
| | oll'an Industrial Park.No.58 and 60, Tangtou Avenue, Shiyan S | treet, Bao'an District, Shenzhen City, Guangdong Province, China | 朝世伝論測认证股份有限公司 | P11-02 | | |

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Report No.: WSCT-ANAB-R&E250300014A-BT

3. EUT Description

| | Product Name: | True Wireless Earbuds | VSCT |
|------------|---------------------|---|---------------|
| / | Model : | OTW-323P | |
| | Trade Mark: | oraimo | / |
| LI | Frequency Range: | 2402-2480MHz(TX/RX) | \checkmark |
| | Channel Separation: | 1MHz | \times |
| | Number of Channel: | 797 WSET WSET | VSET |
| (| Modulation Type: | GFSK, π/4-DQPSK, 8-DPSK | |
| C 7 | Antenna Type | Chip Antenna | / |
| | Antenna Gain: | 1,73dBi | $\overline{}$ |
| | Operating Voltage | Li-ion Polymer Battery: 451012 Nominal Voltage: 3.7V Rated Capacity: 35mAh/0.1295Wh Charging Box: 802035 Nominal Voltage: 3.7V Capacity:500mAh/3.7V/1.85Wh | VSET |
| -1 | Remark: | N/A. | \checkmark |

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Note:

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- 1. PASS: Test item meets the requirement. ws cr
- 2. Fail: Test item does not meet the requirement.

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- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK, 8DPSK

| | Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---------|-----------|---------|-----------|-----------|-----------|---------|--------------|
| | W05 C7 | 2402MHz | V20 [7 | 2422MHz | 40 | 2442MHz | 605 C | 2462MHz |
| 1 | 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| | | X | | X | | X | | \mathbf{X} |
| | 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| | 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| | \sim | | X | | | | | |
| | 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| | w19_77 | 2421MHz | 39.67 | 2441MHz | 59 | 2461MHz | WSC. | 7 |

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Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK modulation mode.

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polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| C 7 | Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|------------|-----------|-----------|------------|--------|------------|
| | \times | \times | \times | 1 | Χ Ι |

Note:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
 Grounding was established in accordance with the manufacturer's requirements and conditions for the intended

use.

3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1.Facilities

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All measurement facilities used to collect the measurement data are located at

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Shenzhen City, Guangdong Province, China.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

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ANAB - Certificate Number: AT-3951

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FAX:0086-755-8637680

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951



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5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %

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| confidence of approximately 95 %. | | | | |
|-----------------------------------|---------------|---|-------------------------|-------------------------|
| | No. | Item | MU | |
| WSET | ٦ | Conducted Emission Test WSCT WSCT | ±3.2dB/5_7 | $ \longrightarrow $ |
| | 2 | RF power, conducted | ±0.16dB | \times |
| | 3 | Spurious emissions, conducted | ±0.21dB | WSET |
| | 4 | All emissions, radiated(<1GHz) | ±4.7dB | |
| \wedge | 5 | All emissions, radiated(>1GHz) | ±4.7dB | |
| WSET | 6 | Temperature WSCT WSCT | ±0.5°CY5C7 | $ \longrightarrow $ |
| | 7 | Humidity | ±2.0% | \times |
| | wst | T WSET WSET WS | | WSET |
| $\overline{}$ | | \times | $\overline{\mathbf{X}}$ | |
| WSET | | WSET WSET WSET | WSET | / |
| 200267 | \mathbf{X} | | | \checkmark |
| | wst | T WSET WSET WS | ET | WSET |
| $\overline{\mathbf{X}}$ | | | | |
| WSET | | WSET WSET WSET | WSET | / |
| | \mathbf{X} | | | $\overline{\mathbf{X}}$ |
| | wst | T WSET WSET WS | T | WSET |
| \mathbf{X} | | \times \times \times | | |
| WSET | | WSET WSET WSET | WSET | / |
| | $\overline{}$ | | | \bigtriangledown |
| | wst | T WSET WSET WS | alione | |
| $\overline{\mathbf{V}}$ | | | 55 | Co Group |
| WSET | | WSET WSET WSET | WSI T | henzhen |
| | | Park No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province. China 🗐 💷 🖬 👘 👘 | N认证股份有限公司 | ATTOD |

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5.4. MEASUREMENT INSTRUMENTS

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| | | | | | | | \wedge |
|----|--|---------------------------|------------------|------------------|---------------------|---------------------|-----------------|
| | NAME OF EQUIPMENT | MANUFACTURER | MODEL | SERIAL NUMBER | Calibration Date | Calibration Due. | SET |
| X | Test software | < - | EZ-EMC | CON-03A | - | X | |
| | Test software | | MTS8310 | WETT | - / | | |
| | EMI Test Receiver | R&S | ESCI | 100005 | 11/05/2024 | 11/04/2025 | \checkmark |
| | LISN | AFJ | LS16 | 16010222119 | 11/05/2024 | 11/04/2025 | \times |
| | LISN(EUT) | Mestec | AN3016 | 04/10040 | 11/05/2024 | 11/04/2025 | SET |
| < | Universal Radio Communication Tester | R&S | CMU 200 | 1100.0008.02 | 11/05/2024 | 11/04/2025 | |
| [| Coaxial cable | Megalon | LMR400 | N/A | 11/05/2024 | 11/04/2025 | |
| | GPIB cable | Megalon | GPIB | N/A | 11/05/2024 | 11/04/2025 | \checkmark |
| | Spectrum Analyzer | R&S | FSU | 100114 | 11/05/2024 | 11/04/2025 | $\overline{\ }$ |
| _ | Pre Amplifier | H.P.CT | HP8447E 57 | 2945A02715 | 11/05/2024 | 11/04/2025 | SET |
| / | Pre-Amplifier | CDSI | PAP-1G18-38 | | 11/05/2024 | 11/04/2025 | |
| | Bi-log Antenna | SCHWARZBECK | VULB9168 | 01488 | 07/29/2024 | 07/28/2025 | |
| [] | 9*6*6 Anechoic | CT - V | ISET | WSET | 11/05/2024 | 11/04/2025 | |
| | Horn Antenna | COMPLIANCE ENGINEERING | CE18000 | | 11/05/2024 | 11/04/2025 | \times |
| | Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-631 | 11/05/2024 | 11/04/2025 | |
| | Cable | TIME MICROWAVE | LMR-400 | N-TYPE04 | 11/05/2024 | 11/04/2025 | 261 |
| K | System-Controller | ccs | N/A | N/A | N.C.R | N.C.R | |
| | Turn Table | ccs | N/A | N/A | N.C.R | N.C.R | |
| | Antenna Tower | CCS | N/A | N/A | N.C.R | N.C.R | $\overline{}$ |
| | RF cable | Murata | MXHQ87WA300 0 | - | 11/05/2024 | 11/04/2025 | $\overline{\ }$ |
| _ | Loop Antenna | EMCO | 6502 11 5 4 | 00042960 | 11/05/2024 | 11/04/2025 | SET |
| / | Horn Antenna | SCHWARZBECK | BBHA 9170 | 1123 | 11/05/2024 | 11/04/2025 | |
| 1 | Power meter | Anritsu | ML2487A | 6K00003613 | 11/05/2024 | 11/04/2025 | |
| Ľ | Power sensor | Anritsu | MX248XD | WSLIN | 11/05/2024 | 11/04/2025 | - |
| | Spectrum Analyzer | Keysight | N9010B | MY60241089 | 11/05/2024 | 11/04/2025 | X |
| | | | | | | / | |

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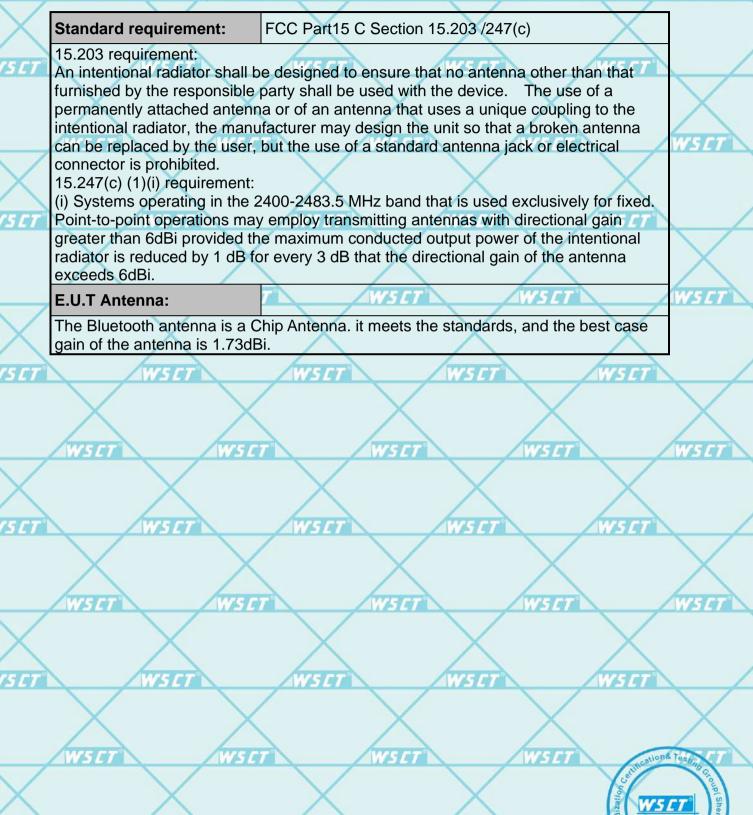
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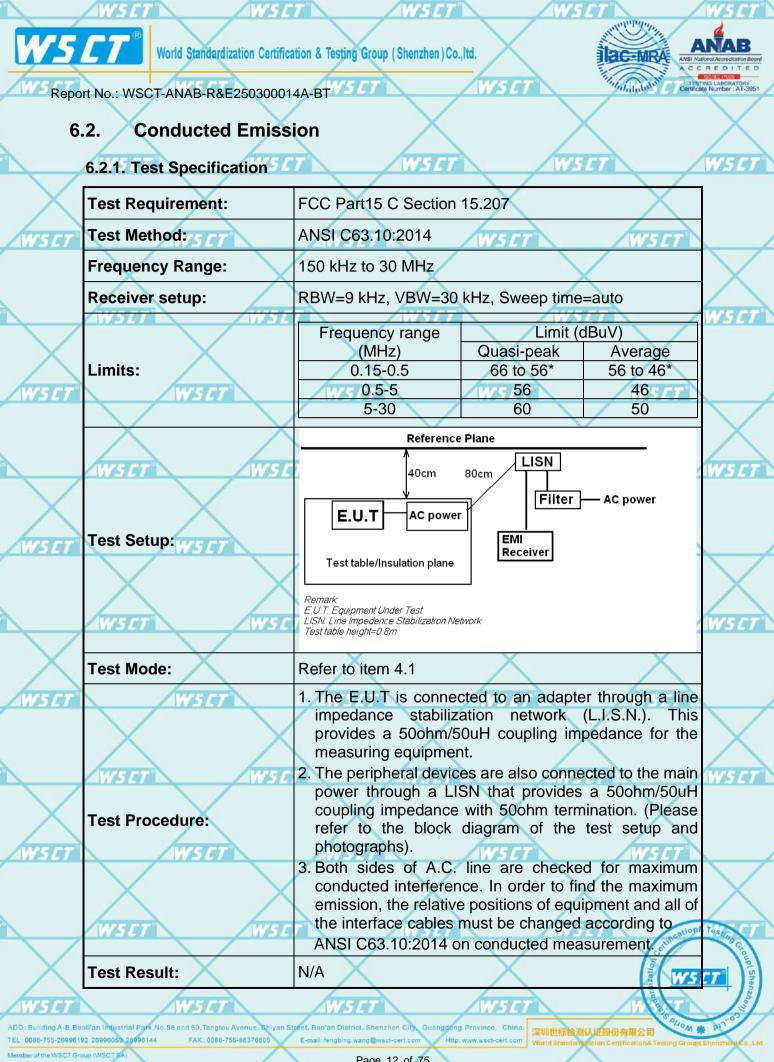
6. Test Results and Measurement Data

6.1.//s Antenna requirement



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6.2.2. Test data

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is so read worst.

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Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

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Note: EUT powered by battery not applicable

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6.3. Conducted Output Power

6.3.1. Test Specification

| X | X | | |
|---------------|-------------------|---|------------------|
| | Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | |
| 5 <i>CT</i> 1 | Test Method: | ANSI C63.10:2014 | |
| T | Limit: | Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. | <u> </u> |
| _ | Test Setup: | Spectrum Analyzer | WISTER |
| X | Test Mode: | Transmitting mode with modulation | |
| | Test Procedure: | Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. | WISTER |
| | Test Result: | PASS | \bigtriangleup |
| | /WSLT /WSL | | WSLI |

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6.3.2. Test Data

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| | GFSK mode | | | | | | |
|---------------|----------------|---|-------------|---------|--------------|--|--|
| $\left<$ | Test channel | Maximum conducted output power (dBm) | Limit (dBm) | Result | | | |
| | Lowest | -1.01 | 21 | PASS | | | |
| 5 <i>CT</i> ° | Middle | -0.21 | 21 | PASS | | | |
| | Highest | -0.62 | 21 | PASS | \mathbf{X} | | |
| | | horas la | | | wsc | | |
| -/ | Pi/4DQPSK mode | | | | | | |
| \times | Test channel | Maximum conducted output power (dBm) | Limit (dBm) | Result | | | |
| 5 <i>CT</i> ° | Lowest | -0.16527 | 215 [7] | PASS CT | | | |
| | Middle | 0.65 | 21 | PASS | \searrow | | |
| | Highest | 0.21 | 21 | PASS | | | |
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| | 8DPSK mode | | | | | | |
|---|--------------|---|-------------|--------|---|--|--|
| | Test channel | Maximum conducted output power (dBm) | Limit (dBm) | Result | | | |
| | Lowest | -1.02 | 21 | PASS | 7 | | |
| | Middle | -0.21 | 21 | PASS | | | |
| _ | Highest | wscr -0.59 | 21 | PASS | | | |
| | | | | | - | | |



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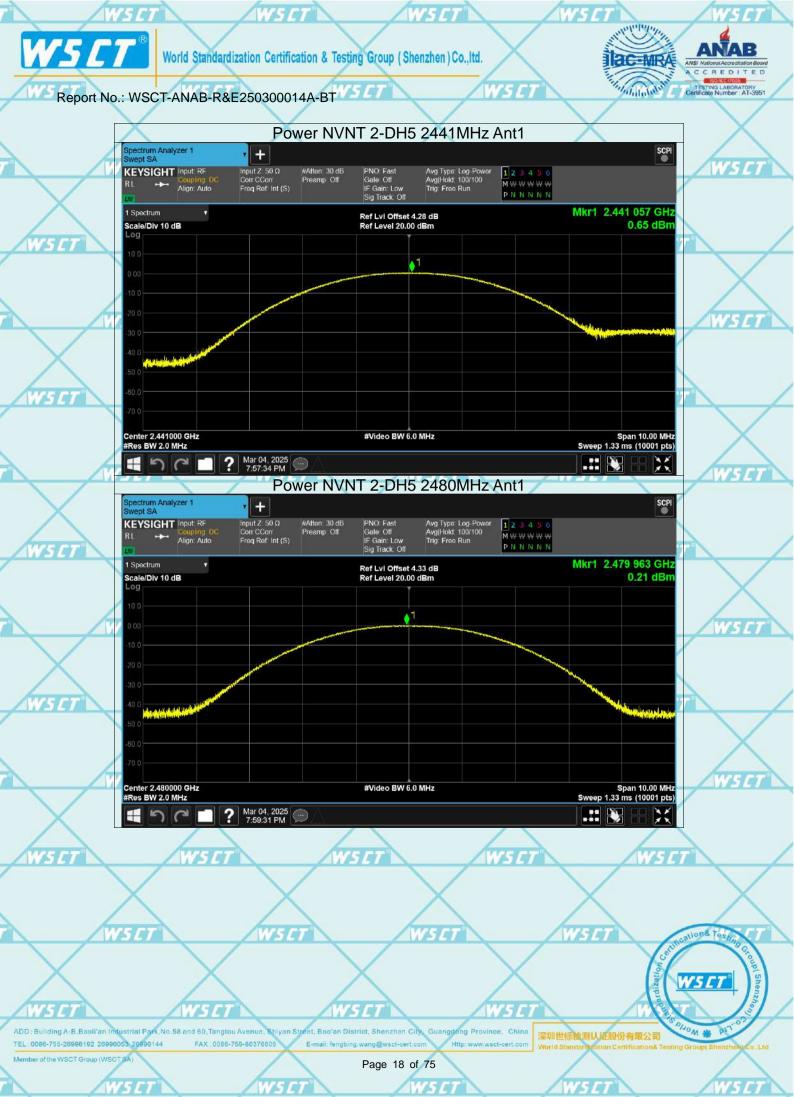
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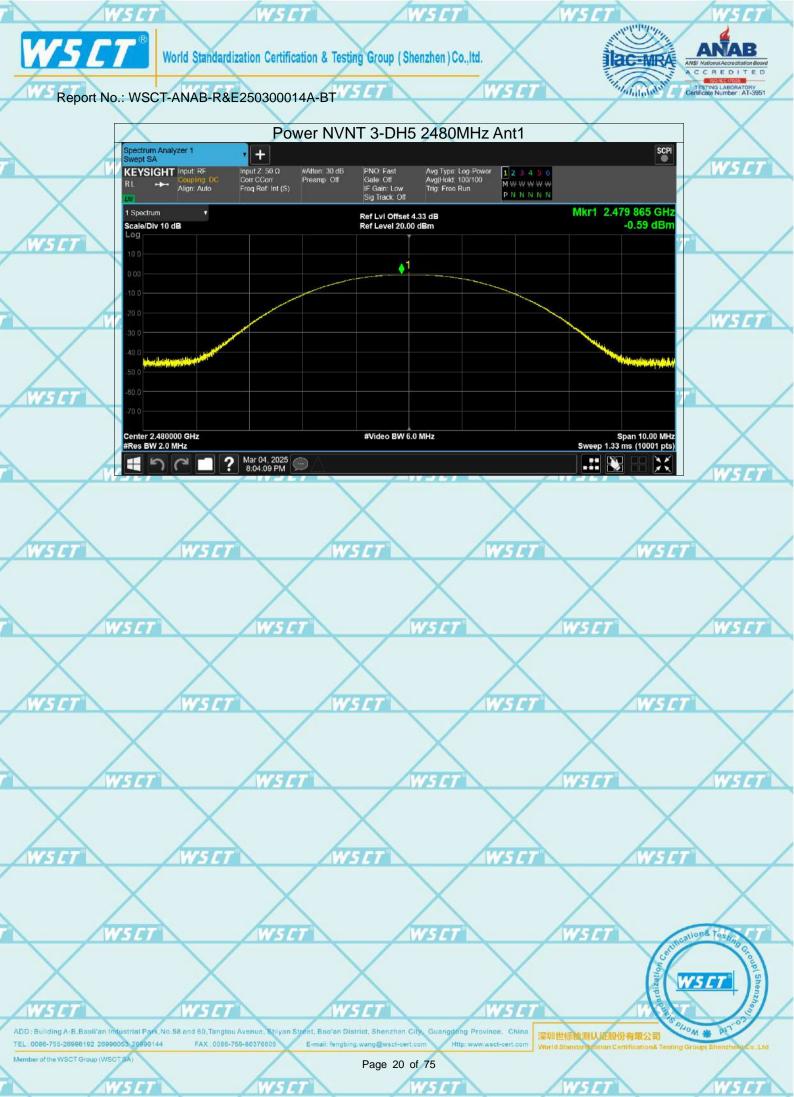
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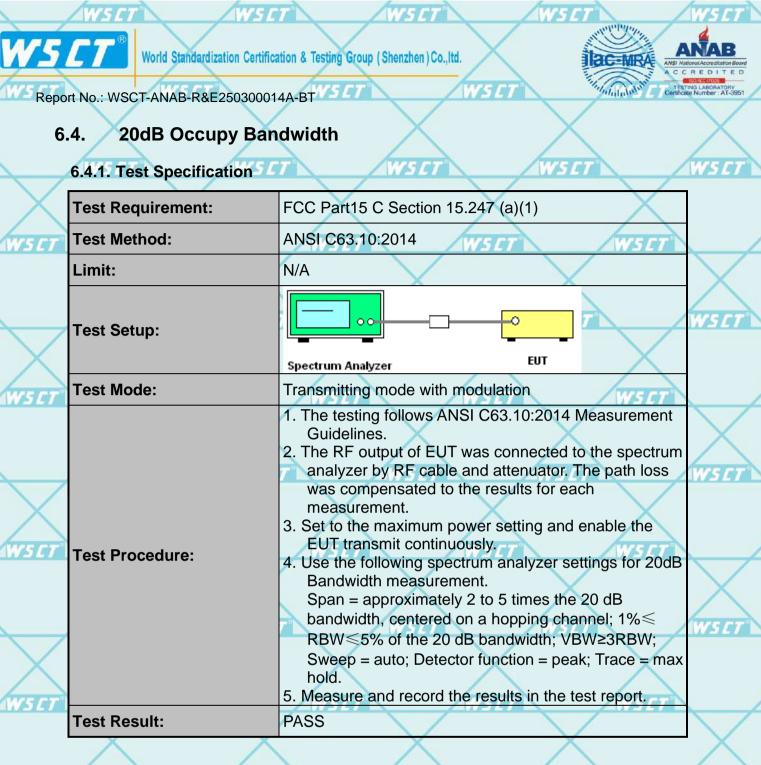


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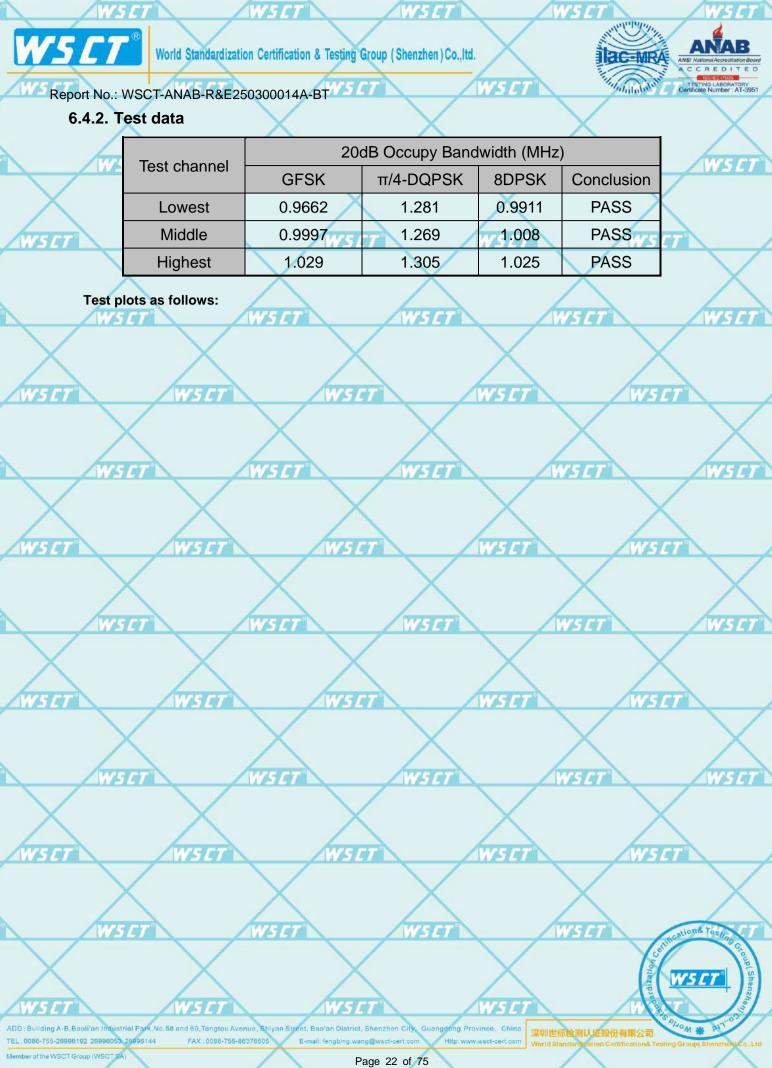
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6.5. Carrier Frequencies Separation

6.5.1. Test Specification 5 CT

| \times | Test Requirement: | FCC Part15 C Section 15.247 (a)(1) | |
|----------|-------------------|---|--------------------|
| WSET | Test Method: | ANSI C63.10:2014 WSET WSET | |
| | Limit: | Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater. | WSET |
| WSET | Test Setup: | Spectrum Analyzer EUT | |
| | Test Mode: | Hopping mode | \bigtriangledown |
| WSET | Test Procedure: | The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. | WSET WSET |
| | Test Result: | PASS | \bigvee |
| | WSET WSE | T WSET WSET | WSET |
| WSET | WISET | WSET WSET WSET | |
| | XX | $ \times \times $ | X |

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6.5.2. Test data

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| | Antonia | | | | WSFT | |
|------------|--------------|---|------------------------------|--------|-----------|--|
| / | GFSK mode | | | | | |
| X | Test channel | Carrier Frequencies Separation (MHz) | Limit ((2/3*20dB BW MHz)) | Result | | |
| [7 | Lowest | 0.996 | 0.644 | PASS 7 | | |
| | Middle | 0.996 | 0.667 | PASS | \times | |
| | Highest | 1.002 | 0.686 | PASS | $ \land $ | |
| | AWSLI | | | | WSLT | |

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| Pi/4 DQPSK mode | | | | | | | |
|-----------------|---|------------------------------|----------|--|--|--|--|
| Test channel | Carrier Frequencies Separation (MHz) | Limit ((2/3*20dB BW MHz)) | Result | | | | |
| Lowest | 1.006 | 0.854 | PASS | | | | |
| Middle | 1.002 | 0.846 | PASS | | | | |
| Highest | WSCT 0.998 | SET 0.870 | SET PASS | | | | |
| | | | | | | | |

| | 8DPSK mode | | | | | |
|---|--------------|---|------------------------------|--------|---|--|
| | Test channel | Carrier Frequencies Separation (MHz) | Limit ((2/3*20dB BW MHz)) | Result | | |
| | Lowest | 1.002 | 0.661 | PASS | | |
| | Middle | 1.014 | 0.672 | PASS | 1 | |
| / | Highest | 1.004 | 0.683 | PASS | W | |

Test plots as follows:

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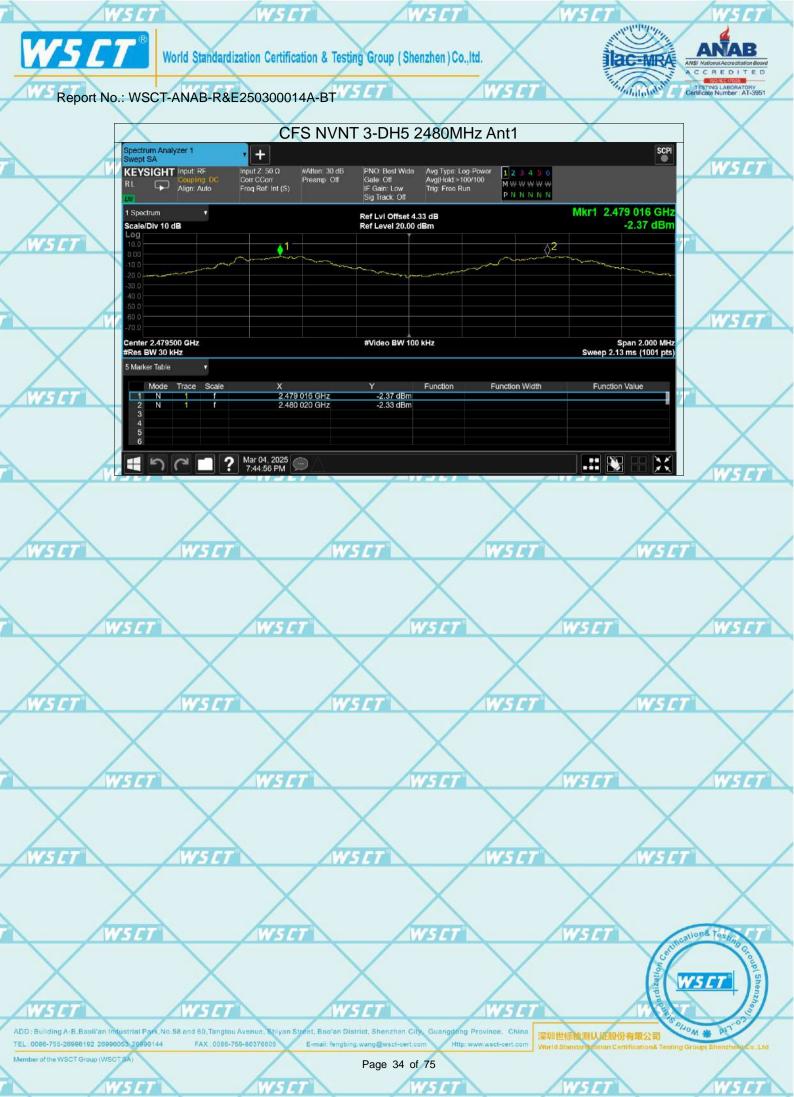
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6.6. Hopping Channel Number

6.6.1. Test Specification

| X | X X X | | | |
|-------------------|---|--------------------|--|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) | | | |
| Test Method: | ANSI C63.10:2014 | | | |
| Limit: | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. | | | |
| Test Setup: | Spectrum Analyzer | WSET | | |
| Test Mode: | Hopping mode | \bigtriangledown | | |
| Test Procedure: | The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. | WSET WSET | | |
| Test Result: | PASS | | | |
| | | ME19/ | | |

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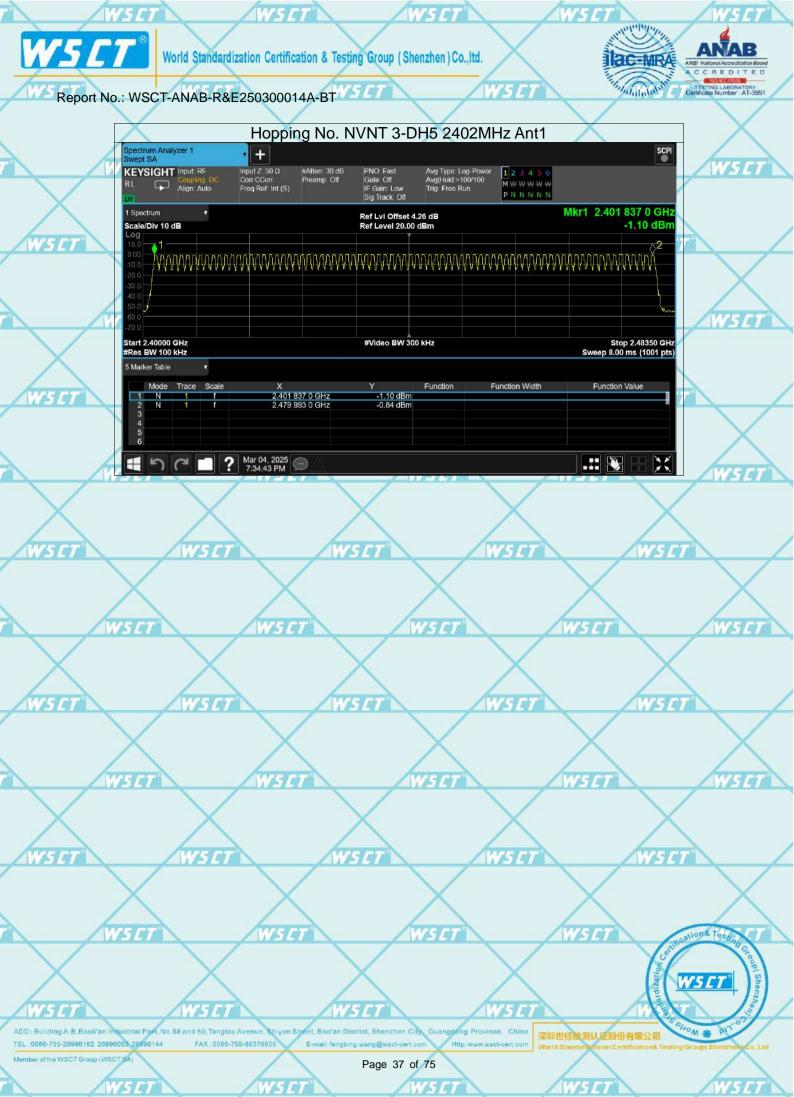
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| | Test dat | a | X | | \times | | Х | | . X |
| | 4 | Mode | | Hopping chan numbers | inel | Limit | | Result | WSET |
| X | GFSK, | , P/4-DQPSK | , 8DPSK | 79 | | 15 | 5 | PASS | |
| WSET | | /WSLT | | WSLT | | WSLT | | WSLT | \backslash |
| | Test plots | as follows: | \sim | Test Grap | he | | \searrow | | \sim |
| | \wedge | < | Hopping | No. NVNT 1-DF | | MHz Ant1 | \wedge | | \wedge |
| | Swept SA | | + | | | | | SCPI | WSET |
| | RL | Coupling DC C | | imp Off Gate Off | Avg Type: Log-Pow Avg[Hold:>100/100 Trig: Free Run | | | | |
| WSFT | 1 Spectru Scale/Di Log | | () | Ref LvI Offset 4.26 Ref Level 20.00 dE | | | Mkr1 2.4 | 01 837 0 GHz -1.11 dBm | |
| | 10.0 | 1 โกลกลกทกกุลกกกุลกา | งกุลกุลกุลกุล | VANANANAN | กกกกกกกก | กกกกกกกกกก | νουκανά | <mark>2</mark> ۸۸۸۸۸۸ | |
| 6 | -20.0 -30.0 | 141244444444444444444444444444444444444 | ******** | KUTIKKAID RULDADAAA | C14411444 | * * * * * * * * * * * * * * * * | A A A A A A A A A A | 1405001 | |
| | -40.0 | | | | | | | - Mart | WSET |
| \sim | -70.0 | 0000 GHz | | #Video BW 300 k | Hz | | | Stop 2.48350 GHz | |
| \wedge | | V 100 kHz | | | | | | 8.00 ms (1001 pts) | |
| WSET | | Node Trace Scale | X 2.401 837 0 | | Function | Function Width | Func | tion Value | \land |
| | 2 3 4 5 | N 1 f | 2.479 909 5 | | | | | | X |
| | | า ๙ 🗖 ? ' | Mar 04, 2025 | <u></u> | | | | | WSET |
| \sim | | | | No. NVNT 2-DH | 15 2402N | MHz Ant1 | | | |
| \sim | Swept S/ | | + put Ζ: 50 Ω #Ath | en: 30 dB PNO: Fast | Avg Type: Log-Pow | ver 123456 | | SCPI | |
| WSET | RL | Coupling DC C | | imp Off Gate Off | Avg Hold >100/100 Trig: Free Run | M \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | \land |
| | 1 Spectru Scale/Di | | | Ref Lvi Offset 4.26 Ref Level 20.00 dE | | | Mkr1 2.4 | 01 837 0 GHz -2.89 dBm | |
| | Log 10.0 | 1 | | | | | | <u>2</u> | \wedge |
| | -10.0 | | hunnu | ᠋ᢣᠺᡧᠺᡊᡘᠯᡰᠬᠯᢑᡳᡘᢌᡀᠺ᠋ᡘᠯᠵᡘ | nnhann | nnnnnnn | www.ww | mary | WSET |
| | -30.0 | | | | | | | | |
| | -60.0 | | | | | | | | |
| WSET | | 0000 GHz V 100 kHz | | #Video BW 300 k | Hz | | | Stop 2.48350 GHz 8.00 ms (1001 pts) | |
| | 5 Marker | Table 🔹 | x | Y | Function | Function Width | Func | tion Value | |
| 2 | | N 1 f N 1 f | 2.401 837 0 2.479 993 0 | GHz -2.89 dBm | | | | | |
| | 4 5 | | | | | | | (cat) | one testing Cr |
| X | | า ๙ 🗖 ? ' | Mar 04, 2025 | | | | | | SCT Ste |
| WSET | | WSET | | WSET | / | WSET | الريقية إريك | | SLT Shenzhen |
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| TEL: 0088-755-2899619 Member of the WSCT Gro | ~ | 144 FAX : 0086-755- | 80376805 E+r | nall fengbing wang@wsct-cert.com Page 36 of | X | wsct-cert.com World | Standard nation | Certification& Testing Gr | oup(Shenzhen)CoLtd |
| | WSET | | WSET | W | SET | - / | WSET | | WSET |



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6.7. Dwell Time

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6.7.1. Test Specification 5

| X | Test Requirement: | FCC Part15 C Section 15.247 (a)(1) | |
|--------------------|-------------------|--|--|
| WSET | Test Method: | ANSI C63.10:2014 W5CT W5CT | |
| | Limit: | The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. | |
| X | Test Setup: | Spectrum Analyzer EUT | |
| WSET | Test Mode: | Hopping mode WSCT WSCT | |
| WSET WSET | Test Procedure: | The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report. | |
| | Test Result: | PASS | |
| \bigtriangledown | | | |

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6.7.2. Test Data

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| | / | | | / | | | | | |
|---|-------|-----------|------------|------------------|-------|--------------|-------|---------|--|
| | Mode | Frequency | Pulse Time | Total Dwell Time | Burst | Period Time | Limit | Verdict | |
| | | (MHz) | (ms) | (ms) | Count | (ms) | (ms) | | |
| / | 1-DH1 | 2402 | 0.383 | 122.177 | 319 | 31600 | 400 | Pass | |
| | 1-DH1 | 2441 | 0.383 | 121.794 | 318 | 31600 | 400 | Pass | |
| | 1-DH1 | 2480 | 0.383 | 121.794 | 318 | 31600 | 400 | Pass | |
| 1 | 1-DH3 | 2402 | 1.639 | 257.323 | 157 🧹 | 31600 | 400 | Pass | |
| 7 | 1-DH3 | 2441 | 1.639 🚽 | 252.406 | 154 | 31600 | 400 | Pass | |
| | 1-DH3 | 2480 | 1.639 | 258.962 | 158 | 31600 | 400 | Pass | |
| | 1-DH5 | 2402 | 2.887 | 291.587 | 101 | 31600 | 400 | Pass | |
| | 1-DH5 | 2441 | 2.887 | 297.361 | 103 | 31600 | 400 | Pass | |
| | 1-DH5 | 2480 | 2.887 | 282.926 | 98 | 31600 🧹 | 400 | Pass | |
| | | | | | | | | | |

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Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate (1600 / 4 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

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2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

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Test plots as follows:

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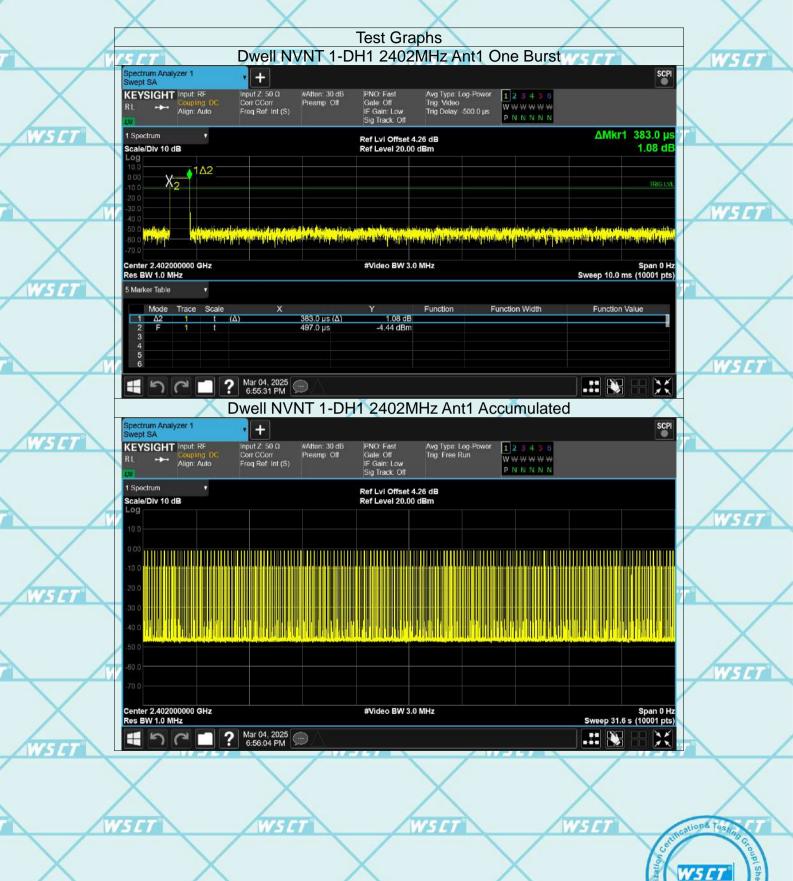
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6.8. **Pseudorandom Frequency Hopping Sequence**

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. 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.

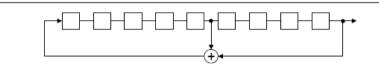
EUT Pseudorandom Frequency Hopping Sequence

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)

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Linear Feedback Shift Register for Generation of the PRBS sequence

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An example of Pseudorandom Frequency Hopping Sequence as follow:

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Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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6.9. Conducted Band Edge Measurement

6.9.1. Test Specification 5 CT

| X | Test Requirement: | FCC Part15 C Section 15.247 (d) | |
|-------------------------|---|--|--------------------|
| WSET | Test Method: | ANSI C63.10:2014 WSET WSET | |
| $\overline{\mathbf{X}}$ | Limit: | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits. | WSET |
| WSET | Test Setup: | | \bigtriangledown |
| | Test Mode: | Transmitting mode with modulation | \wedge |
| WSET | | The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. | WS ET |
| \times | Test Procedure: | Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. | WSET |
| WSLT | | Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. | \mathbf{X} |
| | Test Result: | PASS | WSET |
| WSET | WSET | WSET WSET WSET | |
| | WSET WSE | (X X) | Testin |
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| | oll'an Industrial Park.No.58 and 60, Tangtou Avenue, Shiyan S 12 26996053 28996144 FAX : 0086-755-86376805 | geet, Bao'an District, Shenzhen City, Guangdong Province, China. E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com World Standard cotton Certifications Testing Groups | PHT OF |
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Report No.: WSCT-ANAB-R&E250300014A-BT

6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (d) |
|-------------------|---|
| Test Method: | ANSI C63.10:2014 |
| Limit: | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits. |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. |
| Test Result: | PASS |
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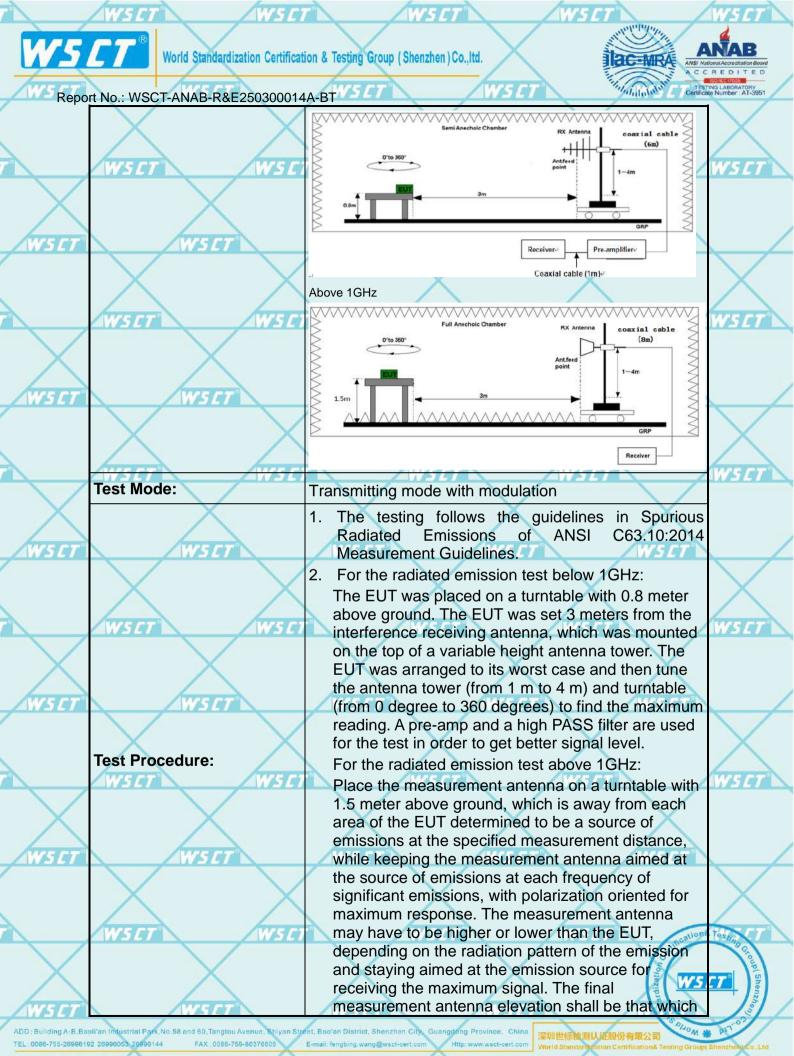


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Report No.: WSCT-ANAB-R&E250300014A-BT

6.11. Radiated Spurious Emission Measurement

| | | | $ \land $ | | | | | > |
|------------------------|--|---|---------------------|---------------------------------|------------------|--------------------------|---------------|------------------------|
| | 6.11.1. Test Specification | | WSET | | /WSI | | | ws C 7 |
| | Test Requirement: | FCC Part15 C | Section | 15.209 | | | / | |
| \sim | Test Method: | ANSI C63.10:2 | 2014 | \wedge | | | | |
| WSET | Frequency Range: | 9 kHz to 25 G | Hz | WSCT | 1 | W5 | CT \ | |
| | Measurement Distance: | 3 m | $\overline{\nabla}$ | | | / | | \searrow |
| | Antenna Polarization: | Horizontal & V | 'ertical | | | | | \land |
| | WSET | Frequency | Detector | RBW | VBW | Remark | | WSET |
| | \sim | | Quasi-peak | 200Hz | 1kHz | Quasi-peak | Value | |
| | Dessiver Catury | | Quasi-peak | 9kHz | 30kHz | Quasi-peak | Value | |
| WSET | Receiver Setup: | 30MHz 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak | /alue | |
| | | ************************************ | Peak | 1MHz | 3MHz | Peak Valu | | |
| | \times \times | Above 1GHz | Peak | 1MHz | 10Hz | Average Va | alue | \mathbf{X} |
| | | _ | | Field Stre | ngth | Measurem | ent | $\langle \rangle$ |
| | WSCT WSCT | Frequency | MSLI I | (microvolts/ | meter) | Distance (me | | WSET |
| | | 0.009-0.49 | | 2400/F(K | | 300 | / | |
| | X | 0.490-1.70 | 5 | 24000/F(I 30 | (HZ) | <u> </u> | | |
| | | 30-88 | | 100 | X | 3 | | |
| WSET | WSLT | 88-216 | | 150 | | 3-7 | | |
| | Limit: | 216-960 | | 200 | | 3 | | V |
| | \wedge | Above 960 | | 500 | | 3 | | \wedge |
| | WSET WSET | | WS CEIL | Strength | Measurer | ment | | WSET |
| 1 | | Frequency | | olts/meter) | Distant | | ctor | and and a start of the |
| X | X | $- \times$ | | 500 | (meter: 3 | s) Avera | age | |
| | | Above 1GHz | | 5000 | 3 | Pea | | |
| WSET | WST | For radiated emiss | ions below 3 | SOMH ₇ | | 1115 | | |
| | \vee \vee | | | | | / | | \bigvee |
| | \wedge | Distar | nce = 3m | | | Computer | | \wedge |
| | WSET WSET | + | | ~ | | | | WSFT |
| | | Į. | |) _ | Pre -A | mplifier | / | 12171 |
| X | Test setup: | EUT | 7 | | | | | |
| | | | urn table | | r | | | |
| WSET | WSET | | | | | eceiver | 71 | |
| | | | Ground F | Plane | | | | \bigvee |
| | \wedge \times | | Ground P | lane | | | | \wedge |
| $\mathbf{\lambda}$ | WATER AND | 30MHz to 1GHz | WASTER | | 100 | | ujona 1 | Tes. FT |
| | | | | $\mathbf{\mathbf{\nabla}}$ | ure | | alicationa | San Cr |
| X | X | X | | X | | thow | - | 2 |
| | | | | | | ardiza | W5C | 7 Shenzh |
| WSET | WSET | WSET | | AWSET | 2 | W | | - Contraction |
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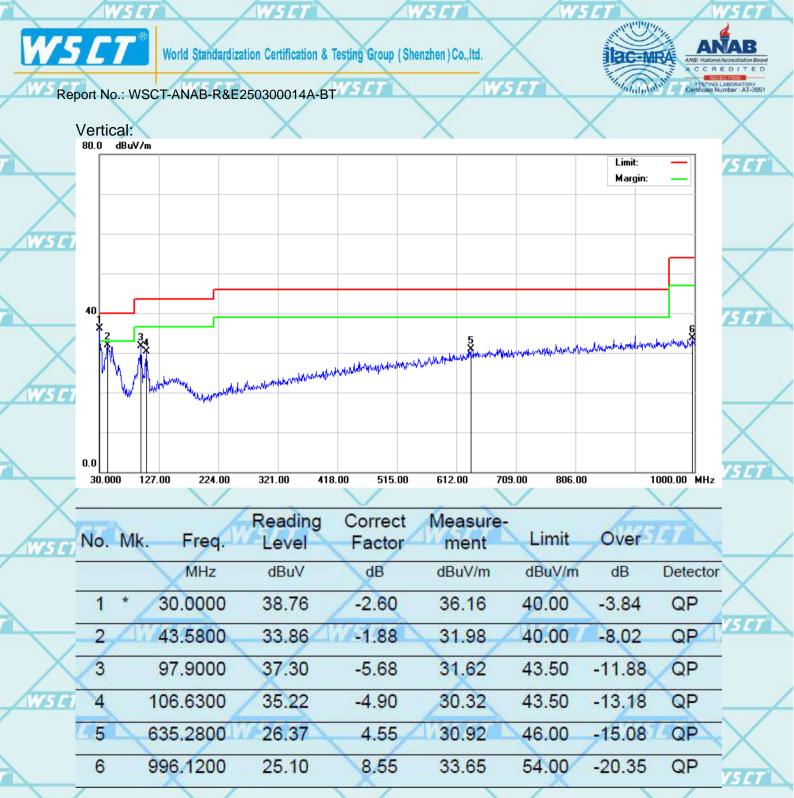


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Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit $(dB\mu V) =$ Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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| | 1 - 0 | ited Data Lis | 1 | | | | | | | | |
|--------------|-------|----------------|---------------------|----------------|-------------------|---------------|-----------------------|------------|----------|-------|---------|
| 5 <i>C1</i> | NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
| | 1 | 2425.6250 | 50.37 | 7.66 | 42.71 | 74 | -23.63 | 358.6 | Vertical | PK | Pass |
| | 1 | 2425.6250 | 36.38 | 7.66 | 28.72 | 54 | -17.62 | 358.6 | Vertical | AV | Pass |
| | 2 | 3833.1250 | 48.84 | 11.2 | 37.64 | 74 | -25.16 | 85.8 | Vertical | PK | Pass |
| 1 | 2 | 3833.1250 | 39.34 | 11.2 | 28.14 | 54 | -14.66 | 85.8 | Vertical | AV | Pass |
| \mathbf{X} | 3 | 5742.5000 | 56.19 | 21.17 | 35.02 | 74 | -17 <mark>.</mark> 81 | 220.8 | Vertical | PK | Pass |
| ~ | 3 | 5742.5000 | 46.92 | 21.17 | 25.75 | 54 | -7.08 | 220.8 | Vertical | AV | Pass |
| 5 <i>C</i> 7 | 4 | 11914.5000 | 46.75 | 38.68 | 8.07 | 74 | -27.25 | 357.1 | Vertical | PK | Pass |
| | 4 | 11914.5000 | 39.42 | 38.68 | 0.74 | 54 | -14.58 | 357.1 | Vertical | AV | Pass |
| | 5 | 14290.5000 | 49.95 | 41.12 | 8.83 | 74 | -24.05 | 360.1 | Vertical | PK | Pass |
| | 5 | 14290.5000 | 42.13 | 41.12 | 1.01 | 54 | -11.87 | 360.1 | Vertical | AV | Pass |
| | 6 | 17917.5000 | 53.69 | 45.95 | 7.74 | 74 | -20.31 | 281.4 | Vertical | PK | Pass |
| | 6 | 17917.5000 | 46.31 | 45.95 | 0.36 | 54 | -7.69 | 281.4 | Vertical | AV | Pass |



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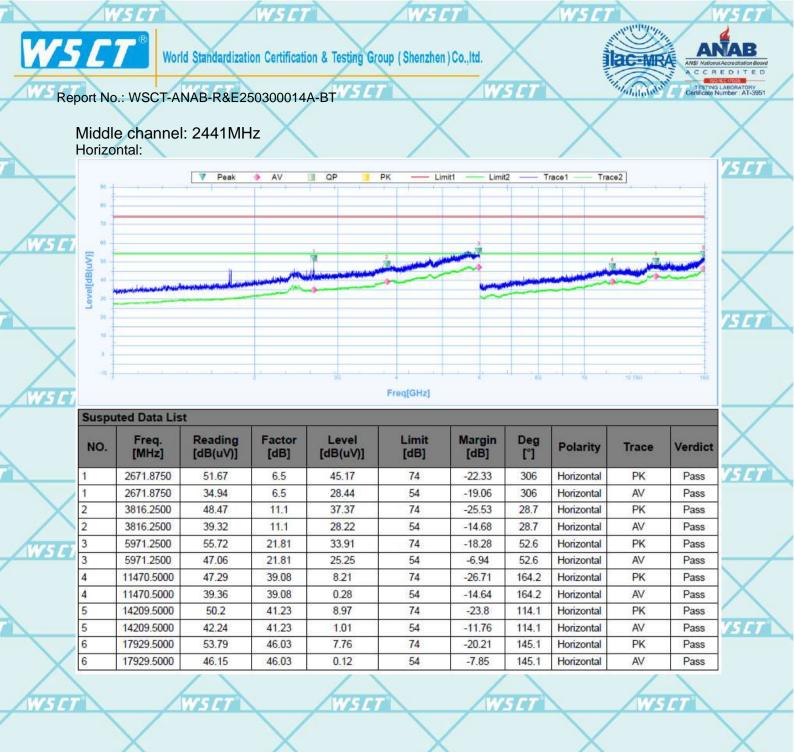
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|-------|----------------|---------------------|----------------|-------------------|---------------|-----------------------|------------|----------|-------|---------|
| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
| 1 | 2426.2500 | 49.92 | 7.66 | 42.26 | 74 | -24.08 | 358.8 | Vertical | PK | Pass |
| 1 | 2426.2500 | 36.49 | 7.66 | 28.83 | 54 | -17 <mark>.</mark> 51 | 358.8 | Vertical | AV | Pass |
| 2 | 3922.5000 | 48.68 | 11.91 | 36.77 | 74 | -25.32 | 289 | Vertical | PK | Pass |
| 2 | 3922.5000 | 39.57 | 11.91 | 27.66 | 54 | -14.43 | 289 | Vertical | AV | Pass |
| 3 | 5739.3750 | 71.57 | 21.18 | 50.39 | 74 | -2.43 | 358.6 | Vertical | PK | Pass |
| 3 | 5739.3750 | 46.91 | 21.18 | 25.73 | 54 | -7.09 | 358.6 | Vertical | AV | Pass |
| 4 | 11563.5000 | 47.42 | 38.99 | 8.43 | 74 | -26.58 | 192.9 | Vertical | PK | Pass |
| 4 | 11563.5000 | 39.13 | 38.99 | 0.14 | 54 | -14.87 | 192.9 | Vertical | AV | Pass |
| 5 | 14286.0000 | 50.14 | 41.13 | 9.01 | 74 | -23.86 | 190.6 | Vertical | PK | Pass |
| 5 | 14286.0000 | 42.17 | 41.13 | 1.04 | 54 | -11.83 | 190.6 | Vertical | AV | Pass |
| 6 | 17997.0000 | 54.35 | 46.48 | 7.87 | 74 | -19.65 | 231.2 | Vertical | PK | Pass |
| 6 | 17997.0000 | 47.08 | 46.48 | 0.6 | 54 | -6.92 | 231.2 | Vertical | AV | Pass |

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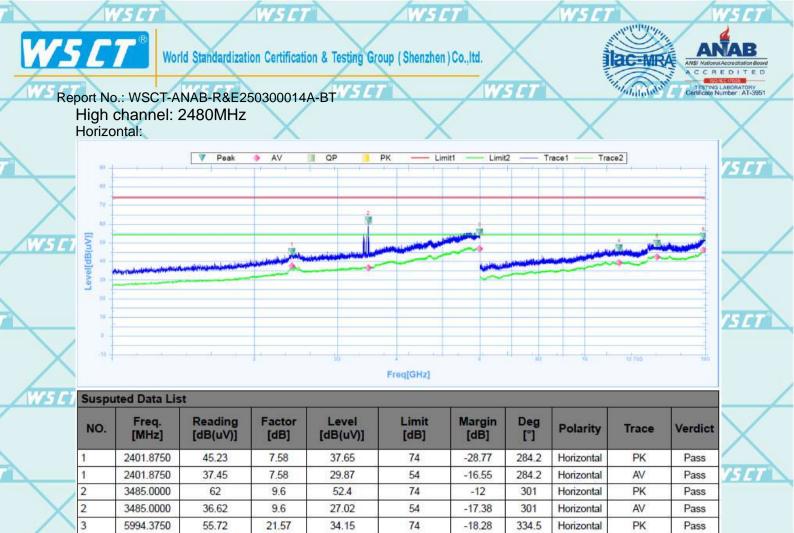
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5994.3750 46.88 21.57 25.31 54 -7.12 334.5 -26.73 11838.0000 47.27 38.75 8.52 74 337.6 11838.0000 39.25 38.75 0.5 54 -14.75 337.6 14230.5000 49.66 41.2 8.46 74 -24.34 218.1 14230.5000 42.44 41.2 1.24 54 -11.56 218.1 17850.0000 53.31 45.5 7.81 74 -20.69 0.4 17850.0000 46.09 45.5 0.59 54 -7.91 0.4

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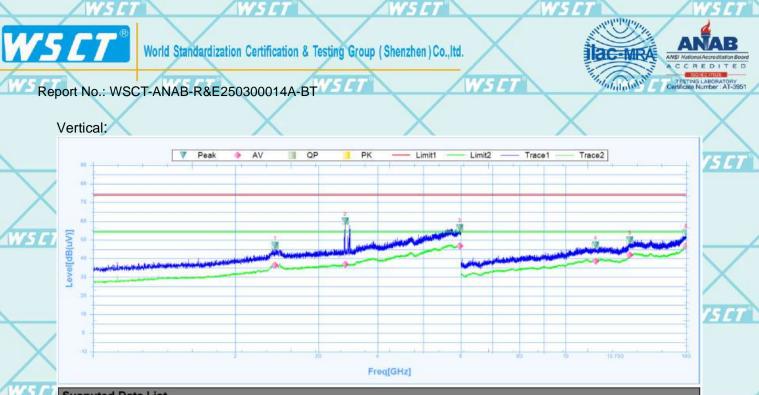
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| Suspu | uted Data Lis | st | | | | | | | | |
|-------|----------------|---------------------|----------------|----------------------|---------------|---------------------------------------|------------|----------|-------|--------|
| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdic |
| 1 | 2426.2500 | 47.08 | 7.66 | 39. <mark>4</mark> 2 | 74 | -26.92 | 350.7 | Vertical | PK | Pass |
| 1 | 2426.2500 | 36.44 | 7.66 | 28.78 | 54 | -17.56 | 350.7 | Vertical | AV | Pass |
| 2 | 3416.8750 | 59.99 | 9,45 | 50.54 | 74 | -14.01 | 30.8 | Vertical | PK | Pass |
| 2 | 3416.8750 | 36.81 | 9.45 | 27.36 | 54 | -17.19 | 30.8 | Vertical | AV | Pass |
| 3 | 5966.8750 | 56.53 | 21.86 | 34.67 | 74 | -17.47 | 269.8 | Vertical | PK | Pass |
| 3 | 5966.8750 | 46.89 | 21.86 | 25.03 | 54 | -7.11 | 269.8 | Vertical | AV | Pass |
| 4 | 11575.5000 | 47.24 | 38.98 | 8.26 | 74 | -26.76 | 292 | Vertical | PK | Pass |
| 4 | 11575.5000 | 38.72 | 38.98 | -0.26 | 54 | -15.28 | 292 | Vertical | AV | Pass |
| 5 | 13677.0000 | 49.81 | 40.66 | 9.15 | 74 | -24.19 | 0.6 | Vertical | PK | Pass |
| 5 | 13677.0000 | 42.02 | 40.66 | 1.36 | 54 | -11.98 | 0.6 | Vertical | AV | Pass |
| 6 | 17998.5000 | 53.64 | 46.49 | 7.15 | 74 | -20.36 | 0.3 | Vertical | PK | Pass |
| 6 | 17998.5000 | 46.89 | 46.49 | 0.4 | 54 | -7.11 | 0.3 | Vertical | AV | Pass |
| Noto: | ··· | Y | **: | X | | · · · · · · · · · · · · · · · · · · · | X | | | V. |

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The emission levels of other frequencies are very lower than the limit and not show in test report. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

Data of measurement shown "-"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

5. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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Report No.: WSCT-ANAB-R&E250300014A-BT

6.11.3. **Restricted Bands Requirements**

5/6 Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK)mode have been tested, and the worst result GFSK model was report as below

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| | as below | \sim | | \sim | | | | |
|------------|----------------|-----------------|-------------------|-------------------|----------|--------|-------|----------|
| | Frequency | Reading | Correct Factor | Emission Level | Limit | Margin | Polar | Detector |
| V5 [] | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| | X | | V | Low Cha | nnel 🗸 | | X | |
| | 2387 | 62.72 | -8.76 | 53.96 | 74 | 20.04 | H | PK |
| | 2387 | 54.03 | -8.76 | 45.27 | 545 [] | 8.73 | Hws | AV |
| | 2387 | 63.45 | -8.73 | 54.72 | 74 | 19.28 | V | PK |
| X | 2387 | 54.63 | -8.73 | 45.90 | 54 | 8.10 | V | AV |
| | 2390 | 62.21 | -8.76 | 53.45 | 74 | 20.55 | Н | PK |
| V5 C1 | 2390 | 54.99 | -8.76 | 46.23 | 54 | 7.77 | Ĥ | AV |
| | 2390 | 62.32 | -8.73 | 53.59 | 74 | 20.41 | VX | PK |
| | 2390 | 57.86 | -8.73 | 49.13 | 54 | 4.87 | V | AV |
| _ | WSET | | ZWSLT | High Cha | nnel | | WSL | |
| \searrow | 2483.5 | 61.00 | -8.17 | 52.83 | 74 | 21.17 | Н | PK |
| \wedge | 2483.5 | 53.39 | -8.17 | 45.22 | 54 | 8.78 | н | AV |
| V5 [] | 2483.5 | 62.41 | -8.17 | 54.24 | 74 | 19.76 | V | PK |
| | 2483.5 | 53.08 | -8.17 | 44.91 | 54 | 9.09 | V | AV |
| | Note: Fred - E | mission frequen | ov in MHz | | X | | | |

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Note: Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = Attenuation factor + Cable loss

Level $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard

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Margin $(dB) = Level (dB\mu V) - Limits (dB\mu V)$

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