

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   |                                      |                                                     |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|--------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CN230Q2D 003</b>                                                                                                                               | <b>Auftrags-Nr.:</b><br>Order no.:   | 168385896                                           | Seite 1 von 24<br>Page 1 of 24 |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                               | <b>Auftragsdatum:</b><br>Order date: | 2022-08-10                                          |                                |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                               | SZ DJI TECHNOLOGY CO., LTD.<br>Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street,<br>Nanshan District, Shenzhen, China |                                      |                                                     |                                |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                          | DJI Mini 3 Pro                                                                                                                                    |                                      |                                                     |                                |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                                   | MT3M3VZ                                                                                                                                           |                                      |                                                     |                                |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC and IC approval                                                                                                                               |                                      |                                                     |                                |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                                  | CFR47 FCC Part 15: Subpart E Section 15.407<br>RSS-247 Issue 2 February 2017<br>RSS-Gen Issue 5 March 2019                                        |                                      |                                                     |                                |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                                         | 2023-02-25                                                                                                                                        | Please refer to Photo Document       |                                                     |                                |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                                    | A003420984-005~008                                                                                                                                |                                      |                                                     |                                |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2023-03-07 - 2023-03-22                                                                                                                           |                                      |                                                     |                                |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                                  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                             |                                      |                                                     |                                |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                               | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                             |                                      |                                                     |                                |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass                                                                                                                                              |                                      |                                                     |                                |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                             | X <u>Breeze Jiang</u>                                                                                                                             |                                      | <b>genehmigt von:</b><br>authorized by:             | X <u>Lin Lin</u>               |
| <b>Datum:</b><br>Date: 2023-05-08                                                                                                                                                                                                                                                                                                                                                                                                                                             | Signed by: Breeze Jiang                                                                                                                           |                                      | <b>Ausstellungsdatum:</b><br>Issue date: 2023-05-08 | Signed by: Lin Lin             |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sachverständige(r)/Expert                                                                                                                         |                                      | <b>Stellung / Position:</b>                         | Sachverständige(r)/Expert      |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC ID: SS3-MT3M3VZ, IC: 11805A-MT3M3VZ, HVIN: MT3M3VZ<br>This report is for 5.8GHz SDR and 5.8GHz Wi-Fi.                                         |                                      |                                                     |                                |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                               | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged                                                                       |                                      |                                                     |                                |
| <p>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet<br/>         * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>                                                                                                                                                                     |                                                                                                                                                   |                                      |                                                     |                                |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/> <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> |                                                                                                                                                   |                                      |                                                     |                                |

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## TEST SUMMARY

### 5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

### 5.1.2 MAXIMUM OUTPUT POWER

RESULT: Pass

### 5.1.3 POWER SPECTRAL DENSITY

RESULT: Pass

### 5.1.4 99% BANDWIDTH

RESULT: Pass

### 5.1.5 6dB BANDWIDTH

RESULT: Pass

### 5.1.6 RADIATED SPURIOUS EMISSION

RESULT: Pass

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## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5.8GHz SDR

Appendix B: Test Results of 5.8GHz Wi-Fi

Appendix C: Photographs of the Test Set-up

## 2. Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: 694916

ISED Wireless Device Testing Laboratory: 25069

A2LA certification number: 5162.01

### 2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Radio Spectrum Testing (SRD-Tonscend)          |              |                   |              |            |
|------------------------------------------------|--------------|-------------------|--------------|------------|
| Equipment                                      | Manufacturer | Model             | Serial No.   | Cal. until |
| EXA Signal Analyzer, Multi-touch               | Keysight     | N9010B            | MY60241175   | 2023-10-10 |
| MXG X-Series RF Vector Signal Generator        | Keysight     | N5182B            | MY61250137   | 2023-10-10 |
| EXG X-Series Microwave Analog Signal Generator | Keysight     | N5173B            | MY61250141   | 2023-10-10 |
| DC power supply                                | Keysight     | E3642A            | MY61276100   | 2023-10-10 |
| Power Control Unit                             | Tonscend     | JS0806-4ADC       | N/A          | 2023-10-10 |
| Automation Control Unit                        | Tonscend     | JS0806-2          | 21C8060396   | 2023-10-10 |
| Test Software                                  | Tonscend     | JS1120-3          | N/A          | N/A        |
| Control PC                                     | Lenovo       | TianYi510S-071MB  | YLX23JMF     | N/A        |
| Shielding Room 8#                              | Albatross    | SR8               | APC17151-SR8 | 2024-06-22 |
| Unwanted Emission Testing (TS9975)             |              |                   |              |            |
| Equipment                                      | Manufacturer | Model             | Serial No.   | Cal. until |
| EMI Test Receiver                              | R&S          | ESR 7             | 102021       | 2023-08-02 |
| Signal Analyzer                                | R&S          | FSV 40            | 101439       | 2023-08-01 |
| System Controller Interface                    | R&S          | SCI-100           | S10010038    | N/A        |
| Filterbank                                     | R&S          | Wlan              | 100759       | 2023-08-01 |
| OSP                                            | R&S          | OSP 120           | 102040       | N/A        |
| Pre-amplifier                                  | R&S          | SCU08F1           | 08320031     | 2023-08-02 |
| Amplifier                                      | R&S          | SCU-18F           | 180070       | 2023-08-02 |
| Amplifier                                      | R&S          | SCU40A            | 100475       | 2023-08-02 |
| Trilog Broadband Antenna (30 MHz - 7 GHz)      | Schwarzbeck  | VULB 9162         | 193          | 2024-08-06 |
| Double-Ridged Antenna (1 -18 GHz)              | ETS-LINDGREN | 3117              | 00218717     | 2024-08-06 |
| Wideband Ridged Horn Antenna (18-40 GHz)       | Steatite     | QMS-00880         | 19067        | 2024-08-27 |
| Active Loop Antenna                            | Schwarzbeck  | FMZB 1513         | 302          | 2023-08-06 |
| Test software                                  | R&S          | EMC32 (V10.60.10) | N/A          | N/A        |
| Control PC                                     | Dell         | OptiPlex 7050     | 36NV9P2      | N/A        |
| 3m Semi-Anechoic Chamber                       | Albatross    | SAC-3m            | APC17151-SAC | 2024-06-22 |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Uncertainty of Measurement

The value of the measurement uncertainty of each parameter is listed as below:

Table 2: Measurement Uncertainty

| Parameter                     | Uncertainty   |
|-------------------------------|---------------|
| RF output power, conducted    | $\pm 0.99$ dB |
| Occupied Channel Bandwidth    | $\pm 2.08$ %  |
| RF power density, conducted   | $\pm 0.99$ dB |
| Unwanted Emissions, conducted | $\pm 0.89$ dB |
| All emissions, radiated       | $\pm 4.17$ dB |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT (**E**quipment **U**nder **T**est) is a DJI Mini 3 PRO. It supports Bluetooth, 2.4GHz SDR, 2.4GHz Wi-Fi, 5.8GHz Wi-Fi, 5.8GHz SDR and GNSS functions.

\*remark: SDR means specific defined radio, and cannot changes radio specification via software/firmware by end-users.

Note: When the EUT is in charging by the adapter, wireless functions will be disabled.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 3: Technical Specification

| General Information of EUT            | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kind of Equipment                     | DJI Mini 3 Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Type Designation                      | MT3M3VZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operating Voltage                     | AC 100-240V, 50/60Hz input via AC/DC adapter or Battery operated (7.38V)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Testing Voltage                       | Full charged battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Extreme Temperature Range             | -10°C ~ 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Radiofrequency operating mode         | 1) Bluetooth: operating within 2400-2483.5MHz, Bluetooth BLE, 1Mbps&2Mbps<br>2) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/10MHz/20MHz/40MHz Bandwidth<br>3) 2.4GHz Wi-Fi: operating within 2400-2483.5MHz, supports 20MHz/40MHz Bandwidth and IEEE 802.11 b/g/n20/n40<br>4) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/10MHz/20MHz/40MHz Bandwidth<br>5) 5.8GHz Wi-Fi: operating within 5725-5850MHz, supports 20MHz/40MHz/80MHz Bandwidth and IEEE 802.11 a/n20/n40/ac20/ac40/ac80 |
| Technical Specification of 5.8GHz SDR |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating Frequency                   | 5728.5-5846.5MHz for 1.4MHz Bandwidth<br>5730.12-5848.12MHz for 1.4MHz Bandwidth (CA mode)<br>5727.5-5844.5MHz for 3MHz Bandwidth<br>5730.2-5847.2MHz for 3MHz Bandwidth (CA mode)<br>5730.5-5844.5MHz for 10MHz Bandwidth<br>5735.5-5839.5MHz for 20MHz Bandwidth<br>5745.5-5829.5MHz for 40MHz Bandwidth                                                                                                                                                                                                                       |
| Type of Modulation                    | OFDM (QPSK, 16QAM, 64QAM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Channel Number                        | 60 channels for 1.4MHz Bandwidth<br>60 channels for 1.4MHz Bandwidth (CA mode)<br>40 channels for 3MHz Bandwidth<br>40 channels for 3MHz Bandwidth (CA mode)<br>115 channels for 10MHz Bandwidth<br>105 channels for 20MHz Bandwidth<br>85 channels for 40MHz Bandwidth                                                                                                                                                                                                                                                          |

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| Channel Separation                             | 2MHz for 1.4MHz Bandwidth<br>2MHz for 1.4MHz Bandwidth (CA mode)<br>3MHz for 3MHz Bandwidth<br>3MHz for 3MHz Bandwidth (CA mode)<br>1MHz for 10MHz Bandwidth<br>1MHz for 20MHz Bandwidth<br>1MHz for 40MHz Bandwidth |
| Antenna System                                 | The SDR mode employing 4 integral antennas, only 1TX2RX mode supported.                                                                                                                                              |
| Antenna Gain                                   | Ant 2: 3.5 dBi Max                                                                                                                                                                                                   |
| <b>Technical Specification of 5.8GHz Wi-Fi</b> |                                                                                                                                                                                                                      |
| Operating Frequency                            | 5745–5825MHz for 802.11 a/n20/n40/ac20/ac40/ac80                                                                                                                                                                     |
| Type of Modulation                             | OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)                                                                                                                                                                                   |
| Data Rate                                      | 6/9/12/18/24/36/48/54 Mbps for 802.11a<br>MCS 0 ~ MCS 7 for 802.11 n20/n40<br>VHT-MCS 0 ~ VHT-MCS 8 for 802.11 ac20<br>VHT-MCS 0 ~ VHT-MCS 9 for 802.11 ac40<br>VHT-MCS 0 ~ VHT-MCS 9 for 802.11 ac80                |
| Channel Number                                 | 5 channels for 802.11a/n20/ac20<br>2 channels for 802.11n40/ac40<br>1 channels for 802.11ac80                                                                                                                        |
| Channel Separation                             | 20MHz, 40MHz, 80MHz                                                                                                                                                                                                  |
| Antenna System                                 | 1 integral Antenna ( only the Ant 3 is for BLE and Wi-Fi)                                                                                                                                                            |
| Antenna Gain                                   | 3.5dBi                                                                                                                                                                                                               |

**Table 4: RF Channel and Frequency of 5.8GHz SDR**

| <b>5.8GHz 1.4MHzBandwidth</b> |                        |                   |                        |                   |                        |
|-------------------------------|------------------------|-------------------|------------------------|-------------------|------------------------|
| <b>RF Channel</b>             | <b>Frequency (MHz)</b> | <b>RF Channel</b> | <b>Frequency (MHz)</b> | <b>RF Channel</b> | <b>Frequency (MHz)</b> |
| 1                             | 5728.5                 | 21                | 5768.5                 | 41                | 5808.5                 |
| 2                             | 5730.5                 | 22                | 5770.5                 | 42                | 5810.5                 |
| 3                             | 5732.5                 | 23                | 5772.5                 | 43                | 5812.5                 |
| 4                             | 5734.5                 | 24                | 5774.5                 | 44                | 5814.5                 |
| 5                             | 5736.5                 | 25                | 5776.5                 | 45                | 5816.5                 |
| 6                             | 5738.5                 | 26                | 5778.5                 | 46                | 5818.5                 |
| 7                             | 5740.5                 | 27                | 5780.5                 | 47                | 5820.5                 |
| 8                             | 5742.5                 | 28                | 5782.5                 | 48                | 5822.5                 |
| 9                             | 5744.5                 | 29                | 5784.5                 | 49                | 5824.5                 |
| 10                            | 5746.5                 | 30                | 5786.5                 | 50                | 5826.5                 |
| 11                            | 5748.5                 | 31                | 5788.5                 | 51                | 5828.5                 |
| 12                            | 5750.5                 | 32                | 5790.5                 | 52                | 5830.5                 |
| 13                            | 5752.5                 | 33                | 5792.5                 | 53                | 5832.5                 |
| 14                            | 5754.5                 | 34                | 5794.5                 | 54                | 5834.5                 |
| 15                            | 5756.5                 | 35                | 5796.5                 | 55                | 5836.5                 |
| 16                            | 5758.5                 | 36                | 5798.5                 | 56                | 5838.5                 |
| 17                            | 5760.5                 | 37                | 5800.5                 | 57                | 5840.5                 |
| 18                            | 5762.5                 | 38                | 5802.5                 | 58                | 5842.5                 |
| 19                            | 5764.5                 | 39                | 5804.5                 | 59                | 5844.5                 |
| 20                            | 5766.5                 | 40                | 5806.5                 | 60                | 5846.5                 |

| <b>5.8GHz 1.4MHz Bandwidth (CA Mode)</b> |                        |                   |                        |                   |                        |
|------------------------------------------|------------------------|-------------------|------------------------|-------------------|------------------------|
| <b>RF Channel</b>                        | <b>Frequency (MHz)</b> | <b>RF Channel</b> | <b>Frequency (MHz)</b> | <b>RF Channel</b> | <b>Frequency (MHz)</b> |
| 1                                        | 5730.12                | 21                | 5770.12                | 41                | 5810.12                |
| 2                                        | 5732.12                | 22                | 5772.12                | 42                | 5812.12                |
| 3                                        | 5734.12                | 23                | 5774.12                | 43                | 5814.12                |
| 4                                        | 5736.12                | 24                | 5776.12                | 44                | 5816.12                |
| 5                                        | 5738.12                | 25                | 5778.12                | 45                | 5818.12                |
| 6                                        | 5740.12                | 26                | 5780.12                | 46                | 5820.12                |
| 7                                        | 5742.12                | 27                | 5782.12                | 47                | 5822.12                |
| 8                                        | 5744.12                | 28                | 5784.12                | 48                | 5824.12                |
| 9                                        | 5746.12                | 29                | 5786.12                | 49                | 5826.12                |
| 10                                       | 5748.12                | 30                | 5788.12                | 50                | 5828.12                |
| 11                                       | 5750.12                | 31                | 5790.12                | 51                | 5830.12                |
| 12                                       | 5752.12                | 32                | 5792.12                | 52                | 5832.12                |
| 13                                       | 5754.12                | 33                | 5794.12                | 53                | 5834.12                |
| 14                                       | 5756.12                | 34                | 5796.12                | 54                | 5836.12                |
| 15                                       | 5758.12                | 35                | 5798.12                | 55                | 5838.12                |
| 16                                       | 5760.12                | 36                | 5800.12                | 56                | 5840.12                |

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| 17 | 5762.12 | 37 | 5802.12 | 57 | 5842.12 |
| 18 | 5764.12 | 38 | 5804.12 | 58 | 5844.12 |
| 19 | 5766.12 | 39 | 5806.12 | 59 | 5846.12 |
| 20 | 5768.12 | 40 | 5808.12 | 60 | 5848.12 |

| 5.8GHz 3MHz Bandwidth |                 |            |                 |            |                 |
|-----------------------|-----------------|------------|-----------------|------------|-----------------|
| RF Channel            | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
| 1                     | 5727.5          | 15         | 5769.5          | 29         | 5811.5          |
| 2                     | 5730.5          | 16         | 5772.5          | 30         | 5814.5          |
| 3                     | 5733.5          | 17         | 5775.5          | 31         | 5817.5          |
| 4                     | 5736.5          | 18         | 5778.5          | 32         | 5820.5          |
| 5                     | 5739.5          | 19         | 5781.5          | 33         | 5823.5          |
| 6                     | 5742.5          | 20         | 5784.5          | 34         | 5826.5          |
| 7                     | 5745.5          | 21         | 5787.5          | 35         | 5829.5          |
| 8                     | 5748.5          | 22         | 5790.5          | 36         | 5832.5          |
| 9                     | 5751.5          | 23         | 5793.5          | 37         | 5835.5          |
| 10                    | 5754.5          | 24         | 5796.5          | 38         | 5838.5          |
| 11                    | 5757.5          | 25         | 5799.5          | 39         | 5841.5          |
| 12                    | 5760.5          | 26         | 5802.5          | 40         | 5844.5          |
| 13                    | 5763.5          | 27         | 5805.5          | /          | /               |
| 14                    | 5766.5          | 28         | 5808.5          | /          | /               |

| 5.8GHz 3MHz Bandwidth CA Mode |                 |            |                 |            |                 |
|-------------------------------|-----------------|------------|-----------------|------------|-----------------|
| RF Channel                    | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
| 1                             | 5730.2          | 15         | 5772.2          | 29         | 5814.2          |
| 2                             | 5733.2          | 16         | 5775.2          | 30         | 5817.2          |
| 3                             | 5736.2          | 17         | 5778.2          | 31         | 5820.2          |
| 4                             | 5739.2          | 18         | 5781.2          | 32         | 5823.2          |
| 5                             | 5742.2          | 19         | 5784.2          | 33         | 5826.2          |
| 6                             | 5745.2          | 20         | 5787.2          | 34         | 5829.2          |
| 7                             | 5748.2          | 21         | 5790.2          | 35         | 5832.2          |
| 8                             | 5751.2          | 22         | 5793.2          | 36         | 5835.2          |
| 9                             | 5754.2          | 23         | 5796.2          | 37         | 5838.2          |
| 10                            | 5757.2          | 24         | 5799.2          | 38         | 5841.2          |
| 11                            | 5760.2          | 25         | 5802.2          | 39         | 5844.2          |
| 12                            | 5763.2          | 26         | 5805.2          | 40         | 5847.2          |
| 13                            | 5766.2          | 27         | 5808.2          | /          | /               |
| 14                            | 5769.2          | 28         | 5811.2          | /          | /               |

| 5.8GHz 10MHzBandwidth |                 |            |                 |            |                 |
|-----------------------|-----------------|------------|-----------------|------------|-----------------|
| RF Channel            | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
| 1                     | 5730.5          | 40         | 5769.5          | 79         | 5808.5          |
| 2                     | 5731.5          | 41         | 5770.5          | 80         | 5809.5          |
| 3                     | 5732.5          | 42         | 5771.5          | 81         | 5810.5          |
| 4                     | 5733.5          | 43         | 5772.5          | 82         | 5811.5          |
| 5                     | 5734.5          | 44         | 5773.5          | 83         | 5812.5          |
| 6                     | 5735.5          | 45         | 5774.5          | 84         | 5813.5          |
| 7                     | 5736.5          | 46         | 5775.5          | 85         | 5814.5          |
| 8                     | 5737.5          | 47         | 5776.5          | 86         | 5815.5          |
| 9                     | 5738.5          | 48         | 5777.5          | 87         | 5816.5          |
| 10                    | 5739.5          | 49         | 5778.5          | 88         | 5817.5          |
| 11                    | 5740.5          | 50         | 5779.5          | 89         | 5818.5          |
| 12                    | 5741.5          | 51         | 5780.5          | 90         | 5819.5          |
| 13                    | 5742.5          | 52         | 5781.5          | 91         | 5820.5          |
| 14                    | 5743.5          | 53         | 5782.5          | 92         | 5821.5          |
| 15                    | 5744.5          | 54         | 5783.5          | 93         | 5822.5          |
| 16                    | 5745.5          | 55         | 5784.5          | 94         | 5823.5          |
| 17                    | 5746.5          | 56         | 5785.5          | 95         | 5824.5          |
| 18                    | 5747.5          | 57         | 5786.5          | 96         | 5825.5          |
| 19                    | 5748.5          | 58         | 5787.5          | 97         | 5826.5          |
| 20                    | 5749.5          | 59         | 5788.5          | 98         | 5827.5          |
| 21                    | 5750.5          | 60         | 5789.5          | 99         | 5828.5          |
| 22                    | 5751.5          | 61         | 5790.5          | 100        | 5829.5          |
| 23                    | 5752.5          | 62         | 5791.5          | 101        | 5830.5          |
| 24                    | 5753.5          | 63         | 5792.5          | 102        | 5831.5          |
| 25                    | 5754.5          | 64         | 5793.5          | 103        | 5832.5          |
| 26                    | 5755.5          | 65         | 5794.5          | 104        | 5833.5          |
| 27                    | 5756.5          | 66         | 5795.5          | 105        | 5834.5          |
| 28                    | 5757.5          | 67         | 5796.5          | 106        | 5835.5          |
| 29                    | 5758.5          | 68         | 5797.5          | 107        | 5836.5          |
| 30                    | 5759.5          | 69         | 5798.5          | 108        | 5837.5          |
| 31                    | 5760.5          | 70         | 5799.5          | 109        | 5838.5          |
| 32                    | 5761.5          | 71         | 5800.5          | 110        | 5839.5          |
| 33                    | 5762.5          | 72         | 5801.5          | 111        | 5840.5          |
| 34                    | 5763.5          | 73         | 5802.5          | 112        | 5841.5          |
| 35                    | 5764.5          | 74         | 5803.5          | 113        | 5842.5          |
| 36                    | 5765.5          | 75         | 5804.5          | 114        | 5843.5          |
| 37                    | 5766.5          | 76         | 5805.5          | 115        | 5844.5          |
| 38                    | 5767.5          | 77         | 5806.5          | /          | /               |
| 39                    | 5768.5          | 78         | 5807.5          | /          | /               |

| 5.8GHz 20MHz Bandwidth |                 |            |                 |            |                 |
|------------------------|-----------------|------------|-----------------|------------|-----------------|
| RF Channel             | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
| 1                      | 5735.5          | 36         | 5770.5          | 71         | 5805.5          |
| 2                      | 5736.5          | 37         | 5771.5          | 72         | 5806.5          |
| 3                      | 5737.5          | 38         | 5772.5          | 73         | 5807.5          |
| 4                      | 5738.5          | 39         | 5773.5          | 74         | 5808.5          |
| 5                      | 5739.5          | 40         | 5774.5          | 75         | 5809.5          |
| 6                      | 5740.5          | 41         | 5775.5          | 76         | 5810.5          |
| 7                      | 5741.5          | 42         | 5776.5          | 77         | 5811.5          |
| 8                      | 5742.5          | 43         | 5777.5          | 78         | 5812.5          |
| 9                      | 5743.5          | 44         | 5778.5          | 79         | 5813.5          |
| 10                     | 5744.5          | 45         | 5779.5          | 80         | 5814.5          |
| 11                     | 5745.5          | 46         | 5780.5          | 81         | 5815.5          |
| 12                     | 5746.5          | 47         | 5781.5          | 82         | 5816.5          |
| 13                     | 5747.5          | 48         | 5782.5          | 83         | 5817.5          |
| 14                     | 5748.5          | 49         | 5783.5          | 84         | 5818.5          |
| 15                     | 5749.5          | 50         | 5784.5          | 85         | 5819.5          |
| 16                     | 5750.5          | 51         | 5785.5          | 86         | 5820.5          |
| 17                     | 5751.5          | 52         | 5786.5          | 87         | 5821.5          |
| 18                     | 5752.5          | 53         | 5787.5          | 88         | 5822.5          |
| 19                     | 5753.5          | 54         | 5788.5          | 89         | 5823.5          |
| 20                     | 5754.5          | 55         | 5789.5          | 90         | 5824.5          |
| 21                     | 5755.5          | 56         | 5790.5          | 91         | 5825.5          |
| 22                     | 5756.5          | 57         | 5791.5          | 92         | 5826.5          |
| 23                     | 5757.5          | 58         | 5792.5          | 93         | 5827.5          |
| 24                     | 5758.5          | 59         | 5793.5          | 94         | 5828.5          |
| 25                     | 5759.5          | 60         | 5794.5          | 95         | 5829.5          |
| 26                     | 5760.5          | 61         | 5795.5          | 96         | 5830.5          |
| 27                     | 5761.5          | 62         | 5796.5          | 97         | 5831.5          |
| 28                     | 5762.5          | 63         | 5797.5          | 98         | 5832.5          |
| 29                     | 5763.5          | 64         | 5798.5          | 99         | 5833.5          |
| 30                     | 5764.5          | 65         | 5799.5          | 100        | 5834.5          |
| 31                     | 5765.5          | 66         | 5800.5          | 101        | 5835.5          |
| 32                     | 5766.5          | 67         | 5801.5          | 102        | 5836.5          |
| 33                     | 5767.5          | 68         | 5802.5          | 103        | 5837.5          |
| 34                     | 5768.5          | 69         | 5803.5          | 104        | 5838.5          |
| 35                     | 5769.5          | 70         | 5804.5          | 105        | 5839.5          |

| 5.8GHz 40MHz Bandwidth |                 |            |                 |            |                 |
|------------------------|-----------------|------------|-----------------|------------|-----------------|
| RF Channel             | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
| 1                      | 5745.5          | 30         | 5774.5          | 59         | 5803.5          |
| 2                      | 5746.5          | 31         | 5775.5          | 60         | 5804.5          |
| 3                      | 5747.5          | 32         | 5776.5          | 61         | 5805.5          |
| 4                      | 5748.5          | 33         | 5777.5          | 62         | 5806.5          |
| 5                      | 5749.5          | 34         | 5778.5          | 63         | 5807.5          |
| 6                      | 5750.5          | 35         | 5779.5          | 64         | 5808.5          |
| 7                      | 5751.5          | 36         | 5780.5          | 65         | 5809.5          |
| 8                      | 5752.5          | 37         | 5781.5          | 66         | 5810.5          |
| 9                      | 5753.5          | 38         | 5782.5          | 67         | 5811.5          |
| 10                     | 5754.5          | 39         | 5783.5          | 68         | 5812.5          |
| 11                     | 5755.5          | 40         | 5784.5          | 69         | 5813.5          |
| 12                     | 5756.5          | 41         | 5785.5          | 70         | 5814.5          |
| 13                     | 5757.5          | 42         | 5786.5          | 71         | 5815.5          |
| 14                     | 5758.5          | 43         | 5787.5          | 72         | 5816.5          |
| 15                     | 5759.5          | 44         | 5788.5          | 73         | 5817.5          |
| 16                     | 5760.5          | 45         | 5789.5          | 74         | 5818.5          |
| 17                     | 5761.5          | 46         | 5790.5          | 75         | 5819.5          |
| 18                     | 5762.5          | 47         | 5791.5          | 76         | 5820.5          |
| 19                     | 5763.5          | 48         | 5792.5          | 77         | 5821.5          |
| 20                     | 5764.5          | 49         | 5793.5          | 78         | 5822.5          |
| 21                     | 5765.5          | 50         | 5794.5          | 79         | 5823.5          |
| 22                     | 5766.5          | 51         | 5795.5          | 80         | 5824.5          |
| 23                     | 5767.5          | 52         | 5796.5          | 81         | 5825.5          |
| 24                     | 5768.5          | 53         | 5797.5          | 82         | 5826.5          |
| 25                     | 5769.5          | 54         | 5798.5          | 83         | 5827.5          |
| 26                     | 5770.5          | 55         | 5799.5          | 84         | 5828.5          |
| 27                     | 5771.5          | 56         | 5800.5          | 85         | 5829.5          |
| 28                     | 5772.5          | 57         | 5801.5          | /          | /               |
| 29                     | 5773.5          | 58         | 5802.5          | /          | /               |

Table 5: RF Channel and Frequency of 5.8GHz Wi-Fi

| U-NII-3         |                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 20MHz Bandwidth |                 | 40MHz Bandwidth |                 | 80MHz Bandwidth |                 |
| Channel         | Frequency (MHz) | Channel         | Frequency (MHz) | Channel         | Frequency (MHz) |
| 149             | 5745            | 151             | 5755            | 155             | 5775            |
| 153             | 5765            | 159             | 5795            |                 |                 |
| 157             | 5785            |                 |                 |                 |                 |
| 161             | 5805            |                 |                 |                 |                 |
| 165             | 5825            |                 |                 |                 |                 |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5.8GHz SDR wireless transmitting mode
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- B. On, 5.8GHz Wi-Fi wireless transmitting mode
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- C. On, Normal Operation
- D. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Application Form

- User Manual

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model MT3M3VZ in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N       |
|-------------|--------------|-------|-----------|
| Laptop      | Lenovo       | T480  | PF-16A6N8 |

### 4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

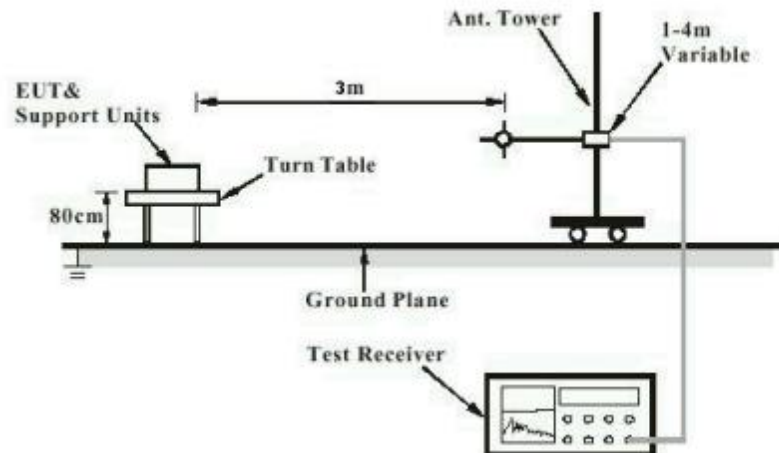


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

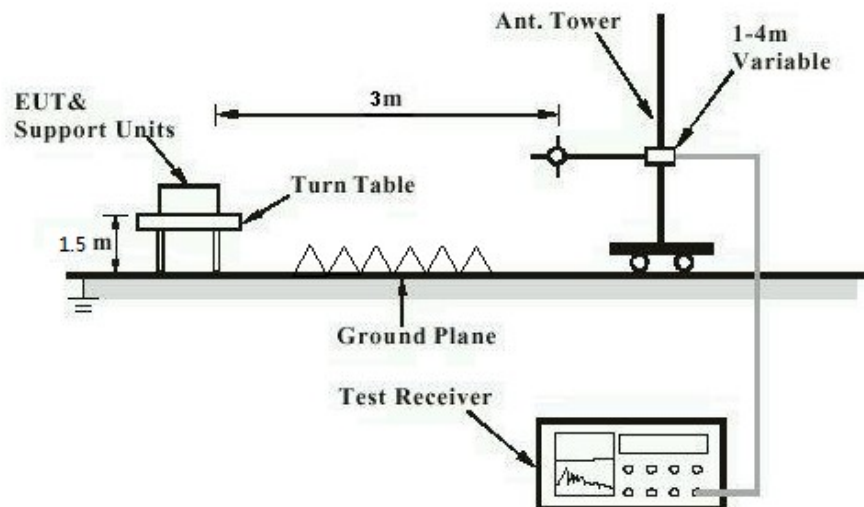
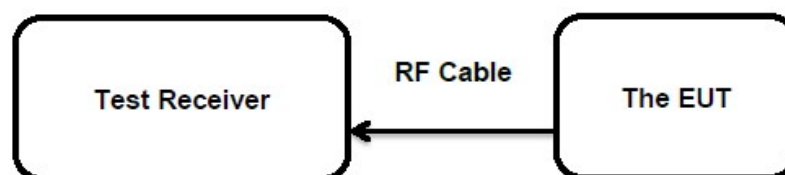


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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## 5. Test Results

### 5.1 Radio Test Requirement & Test Suites (5GHz Bands)

#### 5.1.1 Antenna Requirement

**RESULT:**

**Pass**

**Test Specification**

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has internal antennas, the Maximum antenna gain is 3.5dBi for 5.8GHz SDR and 3.5dBi for 5.8GHz Wi-Fi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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**5.1.2 Maximum output power**
**RESULT:**
**Pass**
**Test Specification**

|                   |   |                                                       |
|-------------------|---|-------------------------------------------------------|
| Test standard     | : | FCC Part 15.407 (a)                                   |
|                   | : | RSS-247 clause 6.2                                    |
| Basic standard    | : | ANSI C63.10:2013                                      |
| Limits            | : | Max conducted output power <1W (30dBm) (5725-5850MHz) |
| Kind of test site | : | Shielded Room                                         |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2023-03-07 to 2023-03-22 |
| Input voltage        | : | Full Battery             |
| Operation mode       | : | A, B                     |
| Test channel         | : | Low / Middle / High      |
| Ambient temperature  | : | 25 °C                    |
| Relative humidity    | : | 45 %                     |
| Atmospheric pressure | : | 101 kPa                  |

**Table 7: Test Result of Maximum Conducted Output Power, 5.8GHz SDR**

| Test Mode    | Test Channel (MHz) | Measured Power |        | Limit (W) |
|--------------|--------------------|----------------|--------|-----------|
|              |                    | (dBm)          | (W)    |           |
| 1.4MHz BW    | 5728.5             | 12.38          | 0.0173 | < 1.0     |
|              | 5786.5             | 12.43          | 0.0175 |           |
|              | 5846.5             | 11.78          | 0.0151 |           |
| 1.4MHz BW CA | 5730.12            | 12.44          | 0.0175 |           |
|              | 5788.12            | 12.09          | 0.0162 |           |
|              | 5848.12            | 11.64          | 0.0146 |           |
| 3MHz BW      | 5727.5             | 12.39          | 0.0173 |           |
|              | 5784.5             | 12.02          | 0.0159 |           |
|              | 5844.5             | 12.32          | 0.0171 |           |
| 3MHz BW CA   | 5730.2             | 12.36          | 0.0172 |           |
|              | 5787.2             | 11.96          | 0.0157 |           |
|              | 5847.2             | 12.27          | 0.0169 |           |
| 10MHz BW     | 5730.5             | <b>21.89</b>   | 0.1545 |           |
|              | 5787.5             | 21.64          | 0.1459 |           |
|              | 5844.5             | 21.19          | 0.1315 |           |
| 20MHz BW     | 5735.5             | 21.74          | 0.1493 |           |
|              | 5787.5             | 21.46          | 0.1400 |           |
|              | 5839.5             | 21.11          | 0.1291 |           |
| 40MHz BW     | 5745.5             | 20.33          | 0.1079 |           |
|              | 5787.5             | 20.91          | 0.1233 |           |
|              | 5829.5             | 20.61          | 0.1151 |           |

1. Max. e.i.r.p.= 21.89dBm+3.5dBi=25.39dBm, which is less than 36dBm=4W.  
 2. All Ant ports tested, only the worst-case (Ant 2) reported.  
 3. A duty cycle of greater than 98% used in testing, the DC factors have been considered for test results as well.

**Table 8: Test Result of Maximum Conducted Output Power, 5.8GHz Wi-Fi**

| Test Mode                                                                                                                                                                                                                                | Data Rate | Test Channel | Measured Power |        | Limit (W) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|----------------|--------|-----------|
|                                                                                                                                                                                                                                          |           |              | (dBm)          | (W)    |           |
| 802.11a                                                                                                                                                                                                                                  | 6 Mbps    | 149          | 13.83          | 0.0242 | < 1.0     |
|                                                                                                                                                                                                                                          |           | 157          | 13.99          | 0.0251 |           |
|                                                                                                                                                                                                                                          |           | 165          | 13.76          | 0.0238 |           |
| 802.11n (HT20)                                                                                                                                                                                                                           | MCS0      | 149          | 13.66          | 0.0232 |           |
|                                                                                                                                                                                                                                          |           | 157          | 13.82          | 0.0241 |           |
|                                                                                                                                                                                                                                          |           | 165          | 13.58          | 0.0228 |           |
| 802.11n (HT40)                                                                                                                                                                                                                           | MCS0      | 151          | 12.26          | 0.0168 |           |
|                                                                                                                                                                                                                                          |           | 159          | 12.46          | 0.0176 |           |
| 802.11ac (HT20)                                                                                                                                                                                                                          | MCS0      | 149          | 13.83          | 0.0242 |           |
|                                                                                                                                                                                                                                          |           | 157          | 14.00          | 0.0251 |           |
|                                                                                                                                                                                                                                          |           | 165          | 13.75          | 0.0237 |           |
| 802.11ac (HT40)                                                                                                                                                                                                                          | MCS0      | 151          | 12.40          | 0.0174 |           |
|                                                                                                                                                                                                                                          |           | 159          | 12.73          | 0.0187 |           |
| 802.11ac (HT80)                                                                                                                                                                                                                          | MCS0      | 155          | 14.53          | 0.0284 |           |
| Max. e.i.r.p.=14.53dBm+3.5dBi=18.03dBm, which is less than 36dBm=4W.<br>A duty cycle of greater than 98% used in testing for all modes except for 802.11ac80 (92.42%), and the DC factors have been considered for test results as well. |           |              |                |        |           |

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 3.5dBi  
 e.i.r.p.=P<sub>(Peak power)</sub>+ G, which is far below the 4 W

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**5.1.3 Power Spectral Density****RESULT:****Pass****Test Specification**

|                   |   |                              |
|-------------------|---|------------------------------|
| Test standard     | : | FCC Part 15.407 (a)          |
|                   | : | RSS-247 clause 6.2           |
| Basic standard    | : | ANSI C63.10:2013             |
|                   | : | FCC:                         |
|                   | : | <30dBm/500KHz (5725-5850MHz) |
| Limits            | : |                              |
|                   | : | IC:                          |
|                   | : | <30dBm/500KHz (5725-5850MHz) |
| Kind of test site | : | Shielded Room                |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2023-03-07 to 2023-03-22 |
| Input voltage        | : | Full Battery             |
| Operation mode       | : | A, B                     |
| Test channel         | : | Low / Middle / High      |
| Ambient temperature  | : | 25 °C                    |
| Relative humidity    | : | 45 %                     |
| Atmospheric pressure | : | 101 kPa                  |

Refer to attached Appendix A, B for details of test data.

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#### 5.1.4 99% Bandwidth

**RESULT:**

**Pass**

**Test Specification**

|                   |   |                    |
|-------------------|---|--------------------|
| Test standard     | : | FCC Part 15.407    |
|                   | : | RSS-Gen Clause 6.6 |
| Basic standard    | : | ANSI C63.10:2013   |
| Limits            | : | N/A                |
| Kind of test site | : | Shielded Room      |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2023-03-07 to 2023-03-22 |
| Input voltage        | : | Full Battery             |
| Operation mode       | : | A, B                     |
| Test channel         | : | Low / Middle / High      |
| Ambient temperature  | : | 25 °C                    |
| Relative humidity    | : | 45 %                     |
| Atmospheric pressure | : | 101 kPa                  |

Refer to attached Appendix A, B for details of test data.

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#### 5.1.5 6dB Bandwidth

##### RESULT:

**Pass**

##### Test Specification

|                   |   |                                |
|-------------------|---|--------------------------------|
| Test standard     | : | FCC Part 15.407 (e)            |
|                   | : | RSS-247 clause 6.2.4.1         |
| Basic standard    | : | ANSI C63.10:2013               |
| Limits            | : | At least 500KHz (5725-5850MHz) |
| Kind of test site | : | Shielded Room                  |

##### Test Setup

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2023-03-07 to 2023-03-22 |
| Input voltage        | : | Full Battery             |
| Operation mode       | : | A, B                     |
| Test channel         | : | Low / Middle / High      |
| Ambient temperature  | : | 25 °C                    |
| Relative humidity    | : | 45 %                     |
| Atmospheric pressure | : | 101 kPa                  |

Refer to attached Appendix A, B for details of test data.

### 5.1.6 Radiated Spurious Emission

#### RESULT:

**Pass**

#### Test Specification

Test standard : FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209  
RSS-247 clause 6.2 & RSS-GEN clause 8.9 and 8.10  
Basic standard : ANSI C63.10:2013

#### Limits

- For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.
- For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- Restricted Bands meet the requirement of 15.209 limit and RSS-GEN

#### Kind of test site

- : 3m Semi-Anechoic Chamber (below 1GHz)
- : 3m Anechoic Chamber (above 1GHz)

#### Test Setup

Date of testing : 2023-03-14 to 2023-03-17  
Input voltage : Full Battery  
Operation mode : A, B  
Test channel : Low / Middle / High  
Ambient temperature : Refer to test result  
Relative humidity : Refer to test result  
Atmospheric pressure : 101 kPa

Refer to attached Appendix A, B for details of test data.

## 6. Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C.

## 7. List of Tables

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