| | | | | |
|---|---|---|---|---|
| **Prüfbericht-Nr.:** *Test report no.*: | **CN26JC9X 002** | **Auftrags-Nr.:** *Order no.*: | 168585292 | Seite 1 von 23 *Page 1 of 23* |
| **Kunden-Referenz-Nr.:** *Client reference no.*: | N/A | **Auftragsdatum:** *Order date:* | 2025-11-16 | |
| **Auftraggeber:** *Client*: | Odyssey Robot LLC<br>Address: 21 Miller Alley Suite210, Pasadena, CA 91103 | | | |
| **Prüfgegenstand:** *Test item*: | Unmanned Aircraft | | | |
| **Bezeichnung / Typ-Nr.:** *Identification / Type no.*: | FMAWZOD | | | |
| **Auftrags-Inhalt:** *Order content*: | Test Report | | | |
| **Prüfgrundlage:** *Test specification*: | CFR Title 47 FCC Part 15: Subpart C Section 15.247<br>CFR Title 47 FCC Part 15: Subpart C Section 15.209 | | | |

| | | |
|---|---|---|
| **Wareneingangsdatum:** *Date of sample receipt*: | 2025-11-16 | Please refer to Photo Document |
| **Prüfmuster-Nr.:** *Test sample no:* | A004141367-001~007 | |
| **Prüfzeitraum:** *Testing period*: | 2025-11-20 - 2025-12-24 | |
| **Ort der Prüfung:** *Place of testing*: | TÜV Rheinland (Shenzhen) Co., Ltd. | |
| **Prüflaboratorium:** *Testing laboratory:* | TÜV Rheinland (Shenzhen) Co., Ltd. | |
| **Prüfergebnis*:** *Test result**: | Pass | |

| | | | |
|---|---|---|---|
| **geprüft von:** tested by: | x Bell Hu<br>Signed by: Bell Hu | **genehmigt von:** *authorized by*: | X Jonathan Li<br>Signed by: Jonathan Li |
| **Datum:** *Date:* 2026-01-09 | | **Ausstellungsdatum:** *Issue date:* 2026-01-09 | |
| **Stellung** / Position: | Sachverständige(r)/Expert | **Stellung** / Position: | Sachverständige(r)/Expert |

| | |
|---|---|
| **Sonstiges /** *Other*: | FCC ID: 2BSYT-FMAWZOD<br>This report is for 2.4GHz DTS. |

| | |
|---|---|
| **Zustand des Prüfgegenstandes bei Anlieferung:** *Condition of the test item at delivery*: | Prüfmuster vollständig und unbeschädigt<br>*Test item complete and undamaged* |

| | | | | |
|---|---|---|---|---|
| * Legende: | P(ass) = entspricht o.g. Prüfgrundlage(n) | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar | N/T = nicht getestet |
| ** 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* |

**Prüfbericht-Nr.: CN26JC9X 002**
*Test report no.:*



## Anmerkungen
*Remarks*

| | |
|---|---|
| **1** | Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.<br>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.<br><br>*The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.*<br>*Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.* |
| **2** | Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature<br><br>*As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature* |
| **3** | Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.<br>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.<br><br>*Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report.*<br>*Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.* |
| **4** | Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.<br><br>*The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the “Zero Guard Band Rule” and “Simple Acceptance” in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.* |

# *Test Summary*

**5.1.1 ANTENNA REQUIREMENT**
*RESULT: Pass*

**5.1.2 MAXIMUM CONDUCTED OUTPUT POWER**
*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**
*RESULT: Pass*

**5.1.4 6DB BANDWIDTH**
*RESULT: Pass*

**5.1.5 99% BANDWIDTH**
*RESULT: Pass*

**5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH**
*RESULT: Pass*

**5.1.7 RADIATED SPURIOUS EMISSION**
*RESULT: Pass*

**5.1.8 CONDUCTED EMISSION ON AC MAINS**
*RESULT: Pass*

# Contents

# 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 2.4GHz Wi-Fi
Appendix B: Test Results of 2.4GHz Band
Appendix C: Test Results of BLE
Appendix D: Photographs of the Test Set-up.

# 2 Test Sites

## 2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| **Radio Spectrum Testing (Band-Tonscend)** | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model** | **Serial No.** | **Cal. Date** | **Cal. until** |
| EXA Signal Analyzer, Multi-touch | Keysight | N9010B | MY60241175 | 23.09.2025 | 22.09.2026 |
| MXG X-Series RF Vector Signal Generator | Keysight | N5182B | MY61250137 | 23.09.2025 | 22.09.2026 |
| EXG X-Series Microwave Analog Signal Generator | Keysight | N5173B | MY61250141 | 23.09.2025 | 22.09.2026 |
| DC Power Supply | Keysight | E3642A | MY61276100 | 23.09.2025 | 22.09.2026 |
| Wireless Connectivity Tester | R&S | CMW270 | 102505 | 23.09.2025 | 22.09.2026 |
| Power Control Unit | Tonscend | JS0806-4ADC | N/A | 23.09.2025 | 22.09.2026 |
| Automation Control Unit | Tonscend | JS0806-2 | 21C8060396 | 23.09.2025 | 22.09.2026 |
| Test Software | Tonscend | JS1120-3 | N/A | N/A | N/A |
| Control PC | Lenovo | TianYi510S-071MB | YLX23JMF | N/A | N/A |
| Humid & Temp Programmable Tester | BOST | NTH090-60 | 19040801 | 25.02.2025 | 24.02.2026 |
| **Unwanted Emission Testing (TS9975)** | | | | | |
| **Equipment** | **Manufacturer** | **Model** | **Serial No.** | **Cal. Date** | **Cal. until** |
| EMI Test Receiver | R&S | ESR 7 | 102021 | 22.09.2025 | 21.09.2026 |
| Signal Analyzer | R&S | FSV 40 | 101439 | 22.09.2025 | 21.09.2026 |
| System Controller Interface | R&S | SCI-100 | S10010038 | N/A | N/A |
| Filterbank | R&S | Wlan | 100759 | 22.09.2025 | 21.09.2026 |
| OSP | R&S | OSP 120 | 102040 | N/A | N/A |
| Pre-amplifier | R&S | SCU08F1 | 08320031 | 22.09.2025 | 21.09.2026 |
| Amplifier | R&S | SCU-18F | 180070 | 22.09.2025 | 21.09.2026 |

| | | | | | |
|---|---|---|---|---|---|
| Amplifier | R&S | SCU40A | 100475 | 22.09.2025 | 21.09.2026 |
| Trilog Broadband Antenna (30 MHz - 7 GHz) | Schwarzbeck | VULB 9162 | 193 | 28.09.2024 | 27.09.2026 |
| Double-Ridged Antenna (1 -18 GHz) | ETS-LINDGREN | 3117 | 00218717 | 28.09.2024 | 27.09.2026 |
| Wideband Ridged Horn Antenna (18-40 GHz) | Steatite | QMS-00880 | 19067 | 28.09.2024 | 27.09.2026 |
| Active Loop Antenna | Schwarzbeck | FMZB 1513 | 302 | 28.09.2024 | 27.09.2026 |
| Test software | R&S | EMC32 (V10.60.10) | N/A | N/A | N/A |
| Control PC | Dell | OptiPlex 7050 | 36NV9P2 | N/A | N/A |
| 3m Semi-Anechoic Chamber | Albatross | SAC-3m | APC17151-SAC | 14.09.2024 | 13.09.2027 |

## 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 basics using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

**Table 2: Measurement Uncertainty**

| Parameter | Uncertainty (k=2) |
|---|---|
| RF output power, conducted | ± 0.99 dB |
| Occupied Channel Bandwidth | ± 2.08 % |
| RF power density, conducted | ± 0.99 dB |
| Unwanted Emissions, conducted | ± 0.89 dB |
| All emissions, radiated | ± 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 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for

certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 Unmanned Aircraft. It supports Bluetooth, 2.4GHz Wi-Fi, 5.8GHz Wi-Fi, 2.4GHz Band and 5.8GHz Band.

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

## 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

| General Information of EUT | Value |
|---|---|
| Kind of Equipment | Unmanned Aircraft |
| Type Designation | FMAWZOD |
| FCC ID | 2BSYT-FMAWZOD |
| Operating Voltage | AC 100-240V, 50/60Hz input via AC/DC adapter`<br>or Battery operated (DC 7.3V) |
| Testing Voltage | AC 120V, 60Hz or Built-in battery |
| Operating Temperature Range | -10°C ~ 40 °C |
| Radiofrequency operating mode | 1) 2.4GHz Band: operating within 2400-2483.5MHz, supports 10MHz/20MHz/40MHz Bandwidth<br>2) 5.8GHz Band: operating within 5725-5850MHz, supports 10MHz/20MHz/40MHz Bandwidth<br>3) Bluetooth LE & 2.4GHz Wi-Fi: operating within 2400-2483.5MHz<br>4) 5.8GHz Wi-Fi: operating within 5725-5850MHz |
| **Technical Specification of 2.4GHz Band** | |
| Operating Frequency: | 2408.48-2466.48MHz for 10MHz Bandwidth<br>2414.48-2460.48MHz for 20MHz Bandwidth<br>2424.48-2450.48MHz for 40MHz Bandwidth |
| Type of Modulation: | OFDM |
| Channel Number: | 59 channels for 10MHz Bandwidth<br>47 channels for 20MHz Bandwidth<br>27 channels for 40MHz Bandwidth |
| Antenna Type: | Integral Antennas |
| Antenna Number: | 2 antennas, 1Tx2Rx (ANT1 or ANT2) |
| Antenna Gain: | 0.9 dBi Max for Ant 1/Ant 2 (Provided by the Client) |
| The type of wideband data transmission equipment: | DTS |
| **Technical Specification of 2.4GHz Wi-Fi** | |
| Operating Frequency: | 2412 - 2462 MHz for 802.11b/g/n(HT20)<br>2422 - 2452 MHz for 802.11n(HT40) |
| Type of Modulation: | DSSS, OFDM |
| Data Rate: | 1/2/5.5/11 Mbps for 802.11b<br>6/9/12/18/24/36/48/54 Mbps for 802.11g<br>MCS0 ~ MCS7 for 802.11n |
| Channel Number: | 11 channels for 802.11b/g/n(HT20) |

| | |
|---|---|
| | 7 channels for 802.11n(HT40) |
| Channel Separation: | 5 MHz |
| Antenna Type: | Integral Antenna |
| Antenna Number: | 1Tx1Rx |
| Antenna Gain: | 0.9 dBi Max (Provided by the Client) |
| The type of wideband data transmission equipment: | DTS |
| **Technical Specification of Bluetooth LE** | |
| Operating Frequency: | 2402 MHz to 2480 MHz |
| Type of Modulation: | GFSK |
| Channel Number: | 40 channels |
| Channel Separation: | 2MHz |
| Data Rate: | 1Mbps, 2Mbps |
| Antenna Type: | Integral Antenna |
| Antenna Number: | 1Tx1Rx |
| Antenna Gain: | 0.9 dBi (Provided by the Client) |

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

## 3.3 Independent Operation Modes

The basic operation modes are:

A. On, 2.4GHz Band wireless transmitting mode
   1) Low Channel
   2) Middle Channel
   3) High Channel

B. On, Bluetooth transmitting mode (BLE)
   1) Low Channel
   2) Middle Channel
   3) High Channel

C. On, 2.4GHz Wi-Fi
   1) Low Channel
   2) Middle Channel
   3) High Channel

## 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

## 3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

# 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 and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10-2020.

## 4.3 Special Accessories and Auxiliary Equipment

**Table 4: List of Accessories and Auxiliary Equipment**

| Description | Manufacturer | Model | S/N | Rating |
|---|---|---|---|---|
| Laptop | Lenovo | T480 | PF-16A6N8 | / |
| AC/DC adapter | Shenzhen HONOR ELECTRONIC CO | PD-65US1 | -- | -- |

## 4.4 Countermeasures to Achieve EMC 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)**

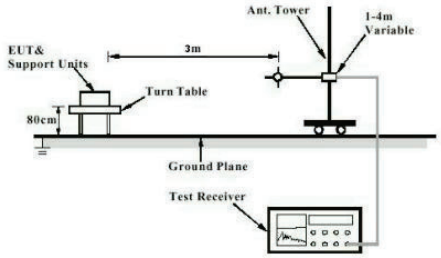



**Diagram of Measurement Configuration for Radiation Test (Above 1GHz)**

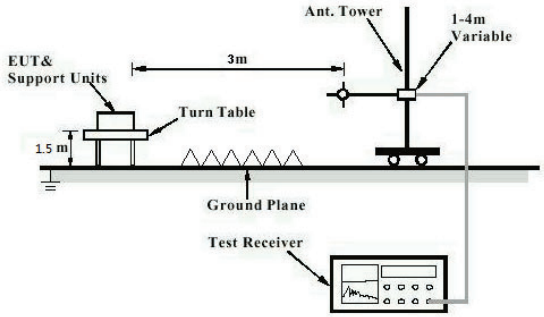



**Diagram of Measurement Configuration for Conducted Transmitter Measurement**

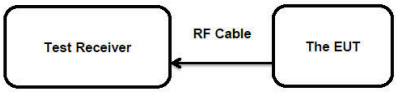
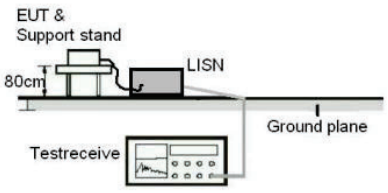



**Diagram of Measurement Configuration for Mains Conduction Measurement**



# 5 Test Results

## 5.1 Transmitter Requirement & Test Suites

### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(b)(4) and Part 15.203 |
| Limit | : | the use of antennas with directional gains that do not exceed 6 dBi |

According to the manufacturer declared, the EUT have Integral Antennas, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

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

Refer to EUT Photo for further details.

## 5.1.2 Maximum Conducted Output Power

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(b)(3) |
| Basic standard | : | ANSI C63.10-2020 |
| Limits | : | < 1 W (Maximum Conducted Power) |
| Kind of test site | : | Shielded Room |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | DC 7.3V by battery |
| Operation mode | : | A, B, C |
| Test channel | : | Low / Middle / High |
| Ambient temperature | : | 25 ℃ |
| Relative humidity | : | 45 % |
| Atmospheric pressure | : | 101 kPa |

For details refer to following test result.

**Table 5: Test Result of Maximum Conducted Output Power, 2.4GHz Band**

Both Antenna ports (Port 1# and Port 2#) tested, only the worst-case reported.

| Test Mode | Test Channel (MHz) | Measured Average Power | | Limit (W) |
|---|---|---|---|---|
| | | (dBm) | (W) | |
| 10MHz BW | 2408.48 | 24.09 | 0.256 | < 1.0 |
| | 2437.48 | **26.66** | **0.463** | |
| | 2466.48 | 24.51 | 0.282 | |
| 20MHz BW | 2414.48 | 22.52 | 0.179 | |
| | 2415.48 | 23.26 | 0.212 | |
| | 2437.48 | 26.16 | 0.413 | |
| | 2460.48 | 23.06 | 0.202 | |
| 40MHz BW | 2424.48 | 20.03 | 0.101 | |
| | 2426.48 | 24.73 | 0.297 | |
| | 2437.48 | 26.29 | 0.426 | |
| | 2450.48 | 23.17 | 0.207 | |
| **Maximum Measured Value** | | **26.66** | **0.463** | |

Note:
1) The cable loss is taken into account in results, e.i.r.p.=$P_{(power)}$+ G
2) Antenna gain(G) of 2.4GHz: 0.9dBi

**Table 6: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi**

| Test Mode | Data Rate | Frequency (MHz) | Measured Peak Conducted Power | | Measured average Conducted Power (For reference only) | | Limit (W) |
|---|---|---|---|---|---|---|---|
| | | | (dBm) | (W) | (dBm) | (W) | |
| 802.11b | 1 Mbps | 2412 | 18.34 | 0.0682 | 15.40 | 0.0347 | < 1.0 |
| | | 2437 | 17.39 | 0.0548 | 14.95 | 0.0313 | |
| | | 2462 | 17.9 | 0.0617 | 14.87 | 0.0307 | |
| 802.11g | 6 Mbps | 2412 | 19.19 | 0.0830 | 14.69 | 0.0294 | |
| | | 2437 | 18.83 | 0.0764 | 14.62 | 0.0290 | |
| | | 2462 | 19.66 | 0.0925 | 15.26 | 0.0336 | |
| 802.11n (HT20) | MCS0 | 2412 | 19.43 | 0.0877 | 14.74 | 0.0298 | |
| | | 2437 | 19.09 | 0.0811 | 14.59 | 0.0288 | |
| | | 2462 | 19.95 | 0.0989 | 15.26 | 0.0336 | |
| 802.11n (HT40) | MCS0 | 2422 | 18.46 | 0.0701 | 13.73 | 0.0236 | |
| | | 2437 | 18.28 | 0.0673 | 13.69 | 0.0234 | |
| | | 2452 | 18.17 | 0.0656 | 13.56 | 0.0227 | |
| **Maximum Measured Value** | | | 19.95 | 0.0989 | / | | |

Note:
1) The cable loss is taken into account in results, e.i.r.p.=$P_{(power)}$+ G
2) Antenna gain(G) of 2.4GH: 0.9dBi

**Table 7: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE**

| Test Mode | Data Rate | Test Frequency (MHz) | Measured Peak Power | | Limit (W) |
|---|---|---|---|---|---|
| | | | (dBm) | (W) | |
| Bluetooth LE | 1 Mbps | 2402 | 5.65 | 0.0037 | < 1.0 |
| | | 2440 | 6.16 | 0.0041 | |
| | | 2480 | 6.59 | 0.0046 | |
| | 2 Mbps | 2402 | 5.65 | 0.0037 | |
| | | 2440 | 6.19 | 0.0042 | |
| | | 2480 | 6.62 | 0.0046 | |
| **Maximum Measured Value** | | | **6.62** | **0.0046** | |

Note:
1) The cable loss is taken into account in results, e.i.r.p.=$P_{(power)}$+ G
2) Antenna gain(G) of 2.4GHz: 0.9dBi

## 5.1.3 Conducted Power Spectral Density

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(e) |
| Basic standard | : | ANSI C63.10-2020 |
| Limits | : | 8 dBm / 3kHz |
| Kind of test site | : | Shielded Room |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | DC 7.3V by battery |
| Operation mode | : | A, B, C |
| Test channel | : | Low / Middle / High |
| Ambient temperature | : | 25 ℃ |
| Relative humidity | : | 45 % |
| Atmospheric pressure | : | 101 kPa |

For the measurement records, refer to the appendixes A, B and C

## 5.1.4 6dB Bandwidth

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(a)(2) |
| Basic standard | : | ANSI C63.10-2020 |
| Limits | : | > 500 kHz |
| Kind of test site | : | Shielded Room |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | DC 7.3V by battery |
| Operation mode | : | A, B, C |
| Test channel | : | Low / Middle / High |
| Ambient temperature | : | 25 ℃ |
| Relative humidity | : | 45 % |
| Atmospheric pressure | : | 101 kPa |

For the measurement records, refer to the appendixes A, B and C

## 5.1.5 99% Bandwidth

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(a) |
| Basic standard | : | ANSI C63.10-2020 |
| Kind of test site | : | Shielded Room |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | DC 7.3V by battery |
| Operation mode | : | A, B, C |
| Test channel | : | Low / Middle / High |
| Ambient temperature | : | 25 ℃ |
| Relative humidity | : | 45 % |
| Atmospheric pressure | : | 101 kPa |

For the measurement records, refer to the appendixes A, B and C

## 5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(d) |
| Basic standard | : | ANSI C63.10-2020 |
| Limits | : | For Compliance with the peak conducted power limits: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);<br>For Compliance with the conducted power limits: 30dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);<br>In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a) |
| Kind of test site | : | Shielded Room |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | DC 7.3V by battery |
| Operation mode | : | A, B, C |
| Test channel | : | Low / Middle / High |
| Ambient temperature | : | 25 ℃ |
| Relative humidity | : | 45 % |
| Atmospheric pressure | : | 101 kPa |

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendixes A, B and C

## 5.1.7 Radiated Spurious Emission

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.247(d) & FCC Part 15.205 |
| Basic standard | : | ANSI C63.10-2020 |
| Limits | : | Refer to 15.209(a) of FCC part 15.247(d) |
| Kind of test site | : | 3m Semi-anechoic Chamber |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | DC 7.3V by battery |
| Operation mode | : | A, B, C |
| Test channel | : | Low / Middle / High |
| Ambient temperature | : | Refer to test result |
| Relative humidity | : | Refer to test result |
| Atmospheric pressure | : | 101 kPa |

Remark:
Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendixes A, B and C

## 5.1.8 Conducted Emission on AC Mains

**RESULT:** **Pass**

**Test Specification**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.207(a) |
| Basic standard | : | ANSI C63.10-2020 |
| Frequency range | : | 0.15 – 30MHz |
| Limits | : | FCC Part 15.207(a) |
| Kind of test site | : | Shielded Room |

**Test Setup**

| | | |
|---|---|---|
| Date of testing | : | 2025-11-20 - 2025-12-24 |
| Input voltage | : | AC 120V, 60Hz |
| Operation mode | : | A, B, C |
| Ambient temperature | : | 24.2 ℃ |
| Relative humidity | : | 52.2 % |
| Atmospheric pressure | : | 101 kPa |

For the measurement records, refer to the appendixes A, B and C

# 6 Photographs of the Test Set-Up

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

# 7 List of Tables