

|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                 |                                                 |                                         |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                            | <b>CN26I7XU 002</b>                                                                                                             | <b>Auftrags-Nr.:</b><br>Order no.:              | 27222248                                | Seite 1 von 22<br>Page 1 of 22                                                        |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                   | N/A                                                                                                                             | <b>Auftragsdatum:</b><br>Order date:            | 2026-03-03                              |                                                                                       |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                        | Shining 3D Tech Co., Ltd.<br>No. 1398 Xiangbin Road, Wenyan Street, Xiaoshan District, Hangzhou, Zhejiang,<br>311258, P.R China |                                                 |                                         |                                                                                       |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                   | 3D Scanner                                                                                                                      |                                                 |                                         |                                                                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                            | EinScan Scanner                                                                                                                 |                                                 |                                         |                                                                                       |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                              | Test Report                                                                                                                     |                                                 |                                         |                                                                                       |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                           | CFR Title 47 FCC Part 15: Subpart E Section 15.407<br>RSS-247 Issue 4 July 2025<br>RSS-Gen Issue 5 February 2021                |                                                 |                                         |                                                                                       |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                  | 2026-04-27                                                                                                                      | Please refer to photo documents                 |                                         |                                                                                       |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                             | A004259268-001~014                                                                                                              |                                                 |                                         |                                                                                       |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                | 2026-05-20 - 2026-07-09                                                                                                         |                                                 |                                         |                                                                                       |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                           | Shenzhen PSI Testing Co., Ltd.                                                                                                  |                                                 |                                         |                                                                                       |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                        | TÜV Rheinland (Shenzhen) Co., Ltd.                                                                                              |                                                 |                                         |                                                                                       |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                 | Pass                                                                                                                            |                                                 |                                         |                                                                                       |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |                                                 | <b>genehmigt von:</b><br>authorized by: |  |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2026-07-15                                                                                                                      | <b>Ausstellungsdatum:</b><br>Issue date:        |                                         | 2026-07-15                                                                            |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                            | Sachverständige(r)/Expert                                                                                                       | <b>Stellung / Position:</b>                     |                                         | Sachverständige(r)/Expert                                                             |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | FCC ID: 2AMG4-ES4S<br>IC: 24652-ES4S<br>HVIN: EinScan Scanner<br>PMN: 3D Scanner                                                |                                                 |                                         |                                                                                       |
| <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                                                     |                                                 |                                         |                                                                                       |
| * 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                                                                      |
| 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.<br>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. |                                                                                                                                 |                                                 |                                         |                                                                                       |

**Prüfbericht-Nr.: CN26I7XU 002**  
**Test report no.:**

Seite 2 von 22  
Page 2 of 22

**Anmerkungen**  
*Remarks*

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>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 Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>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. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2 | <p>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: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>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: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| 3 | <p>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.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i><br/><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, 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 bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>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 115:2023, 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.</i></p>                                                                                                                                                                                                                                                                                       |

## ***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 FREQUENCY STABILITY**

*RESULT: Pass*

**5.1.5 26dB BANDWIDTH AND 99% BANDWIDTH**

*RESULT: Pass*

**5.1.6 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.7 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**5.1.8 CONDUCTED EMISSION ON AC MAINS**

*RESULT: Pass*

## **Contents**

|              |                                                          |           |
|--------------|----------------------------------------------------------|-----------|
| <b>1</b>     | <b>GENERAL REMARKS .....</b>                             | <b>5</b>  |
| <b>1.1</b>   | <b>COMPLEMENTARY MATERIALS .....</b>                     | <b>5</b>  |
| <b>2</b>     | <b>TEST SITES .....</b>                                  | <b>6</b>  |
| <b>2.1</b>   | <b>TEST FACILITIES .....</b>                             | <b>6</b>  |
| <b>2.2</b>   | <b>LIST OF TEST AND MEASUREMENT INSTRUMENTS.....</b>     | <b>6</b>  |
| <b>2.3</b>   | <b>TRACEABILITY .....</b>                                | <b>7</b>  |
| <b>2.4</b>   | <b>CALIBRATION .....</b>                                 | <b>7</b>  |
| <b>2.5</b>   | <b>MEASUREMENT UNCERTAINTY.....</b>                      | <b>7</b>  |
| <b>2.6</b>   | <b>LOCATION OF ORIGINAL DATA.....</b>                    | <b>8</b>  |
| <b>2.7</b>   | <b>STATUS OF FACILITY USED FOR TESTING.....</b>          | <b>8</b>  |
| <b>3</b>     | <b>GENERAL PRODUCT INFORMATION .....</b>                 | <b>9</b>  |
| <b>3.1</b>   | <b>PRODUCT FUNCTION AND INTENDED USE.....</b>            | <b>9</b>  |
| <b>3.2</b>   | <b>RATINGS AND SYSTEM DETAILS .....</b>                  | <b>9</b>  |
| <b>3.3</b>   | <b>INDEPENDENT OPERATION MODES .....</b>                 | <b>10</b> |
| <b>3.4</b>   | <b>NOISE GENERATING AND NOISE SUPPRESSING PARTS.....</b> | <b>10</b> |
| <b>3.5</b>   | <b>SUBMITTED DOCUMENTS.....</b>                          | <b>10</b> |
| <b>4</b>     | <b>TEST SET-UP AND OPERATION MODES .....</b>             | <b>11</b> |
| <b>4.1</b>   | <b>PRINCIPLE OF CONFIGURATION SELECTION .....</b>        | <b>11</b> |
| <b>4.2</b>   | <b>TEST OPERATION AND TEST SOFTWARE.....</b>             | <b>11</b> |
| <b>4.3</b>   | <b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....</b> | <b>11</b> |
| <b>4.4</b>   | <b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....</b>    | <b>11</b> |
| <b>4.5</b>   | <b>TEST SETUP DIAGRAM .....</b>                          | <b>12</b> |
| <b>5</b>     | <b>TEST RESULTS .....</b>                                | <b>14</b> |
| <b>5.1</b>   | <b>TRANSMITTER REQUIREMENT &amp; TEST SUITES .....</b>   | <b>14</b> |
| <b>5.1.1</b> | <i>Antenna Requirement .....</i>                         | <i>14</i> |
| <b>5.1.2</b> | <i>Maximum Conducted Output Power .....</i>              | <i>15</i> |
| <b>5.1.3</b> | <i>Conducted Power Spectral Density .....</i>            | <i>16</i> |
| <b>5.1.4</b> | <i>Frequency Stability.....</i>                          | <i>17</i> |
| <b>5.1.5</b> | <i>26dB Bandwidth and 99% Bandwidth .....</i>            | <i>18</i> |
| <b>5.1.6</b> | <i>6dB Bandwidth .....</i>                               | <i>19</i> |
| <b>5.1.7</b> | <i>Radiated Spurious Emission .....</i>                  | <i>20</i> |
| <b>5.1.8</b> | <i>Conducted Emission on AC Mains.....</i>               | <i>21</i> |
| <b>6</b>     | <b>PHOTOGRAPHS OF THE TEST SET-UP .....</b>              | <b>22</b> |
| <b>7</b>     | <b>LIST OF TABLES.....</b>                               | <b>22</b> |

# 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 5GHz Wi-Fi

Appendix B: Photographs of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**Shenzhen PSI Testing Co., Ltd.**

1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104  
A2LA Certificate Number: 6975.01  
CNAS Registration Number: CNAS L19010

Note: TÜV Rheinland (Shenzhen) Co., Ltd. subcontracts the whole test to Shenzhen PSI Testing Co., Ltd., the tests at the test sites have been conducted under the supervision of a TÜV engineer

### 2.2 List of Test and Measurement Instruments

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

| Item | Equipment                     | Manufacturer  | Model No.         | Serial No.              | Firmware Version | Last Cal.  | Cal. Interval |
|------|-------------------------------|---------------|-------------------|-------------------------|------------------|------------|---------------|
| 1.   | 9*6*6 anechoic chamber        | SKET          | 9*6*6             | N/A                     | /                | 2025.12.18 | 3 Year        |
| 2.   | Test Receiver                 | Rohde&Schwarz | ESCI 7            | 101032/003              | 4.42 SP3         | 2025.12.18 | 1 Year        |
| 3.   | Loop Antenna                  | Schwarz beck  | FMZB 1519B        | 00128                   | /                | 2025.01.02 | 2 Year        |
| 4.   | Bilog Antenna                 | Schwarz beck  | VULB 9168         | 01448                   | /                | 2025.01.02 | 2 Year        |
| 5.   | Spectrum Analyzer             | Rohde&Schwarz | FSV-40N           | 101648                  | 3.70             | 2025.12.18 | 1 Year        |
| 6.   | Horn Antenna                  | Schwarz beck  | BBHA 9120 D       | 02706                   | /                | 2025.01.02 | 2 Year        |
| 7.   | Amplifier                     | SKET          | LAPA_01G18 G-45dB | SK2022032901            | /                | 2025.12.18 | 1 Year        |
| 8.   | Horn Antenna                  | Schwarz beck  | BBHA 9170         | 00946                   | /                | 2024.12.31 | 2 Year        |
| 9.   | Amplifier                     | SKET          | LNPA_0118G-45     | SK2020010801            | /                | 2025.12.18 | 1 Year        |
| 10.  | RF Power Probe                | Rohde&Schwarz | NRP-Z11           | 1138.3004.02-117725-vh  | /                | 2025.12.18 | 1 Year        |
| 11.  | RF Power Probe                | Rohde&Schwarz | NRP-Z11           | 1138.3004.02-1111533-Fz | /                | 2025.12.18 | 1 Year        |
| 12.  | Vector Signal Generator       | Agilent       | N5182A            | MY47420724              | /                | 2025.12.18 | 1 Year        |
| 13.  | Analog signal generator       | Agilent       | N5181A            | MY50145363              | /                | 2025.12.18 | 1 Year        |
| 14.  | Comprehensive Test Instrument | Rohde&Schwarz | CMW 500           | 145266                  | /                | 2025.12.18 | 1 Year        |
| 15.  | Spectrum Analyzer             | Agilent       | N9020A            | MY51281067              | A.14.03          | 2025.12.18 | 1 Year        |
| 16.  | Temp. & Humid Chamber         | Auchno        | 9606              | /                       | /                | 2025.12.18 | 1 Year        |
| 17.  | Regulated DC Power Supply     | Xinouhua      | ADC120V10A        | 202211251638            |                  | 2025.12.18 | 1 Year        |

**For Test Software Information**

| Item | Software Name | Manufacturer | Version |
|------|---------------|--------------|---------|
| RE   | EMC-I         | Farad        | PSI-3A1 |
| RF   | RTS           | TACHOY       | V1.0.0  |

For Power Line Conducted Emission Test Equipment:

| Item | Equipment     | Manufacturer  | Model No. | Serial No. | Firmware Version | Last Cal.  | Cal. Interval |
|------|---------------|---------------|-----------|------------|------------------|------------|---------------|
| 1.   | Test Receiver | Rohde&Schwarz | ESCI 7    | 101032/003 | 4.42 SP3         | 2025.12.18 | 1 Year        |
| 2.   | L.I.S.N.      | Rohde&Schwarz | ENV 216   | 102282     | /                | 2025.12.18 | 1 Year        |
| 3.   | L.I.S.N.      | RFT           | NNB111    | 13835240   | /                | 2025.12.18 | 1 Year        |

For Test Software Information

| Item | Software Name | Manufacturer | Version |
|------|---------------|--------------|---------|
| CE   | EZ-EMC        | Farad        | PSI-3A1 |

## 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 Measurement Uncertainty

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

**Table 2: Measurement Uncertainty**

| Parameter                                             | Uncertainty |
|-------------------------------------------------------|-------------|
| Power Line Conducted Emissions Test                   | 2.13dB      |
| Radiation Emission test in 3m chamber(Below 30MHz)    | 4.07dB      |
| Radiation Emission test in 3m chamber(30MHz to 1GHz)  | 4.51dB      |
| Radiation Emission test in 3m chamber(1GHz to 18GHz)  | 5.07dB      |
| Radiation Emission test in 3m chamber(18GHz to 40GHz) | 5.21dB      |
| Radio Frequency                                       | 48.24KHz    |
| Conducted RF Power                                    | 0.41dB      |
| Power Spectral Density                                | 0.39 dB     |
| Occupied-Bandwidth                                    | 968Hz       |
| Duty Cycle                                            | 1%          |
| Conducted-Spurious Emission                           | 1.26dB      |

## 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) Co., Ltd. File for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Shenzhen PSI Testing Co., Ltd. Test facility located at 1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104 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 product is 3D Scanner. It supports 5GHz Wi-Fi functions.

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

#### 3.2 Ratings and System Details

**Table 3: General Information of EUT**

| General Information of EUT                   | Value                                                                                                                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kind of Equipment:                           | 3D Scanner                                                                                                                                                                          |
| Type Designation:                            | EinScan Scanner                                                                                                                                                                     |
| FCC ID:                                      | 2AMG4-ES4S                                                                                                                                                                          |
| IC:                                          | 24652-ES4S                                                                                                                                                                          |
| HVIN:                                        | EinScan Scanner                                                                                                                                                                     |
| PMN:                                         | 3D Scanner                                                                                                                                                                          |
| Operating Voltage:                           | DC 3.636V by battery and/or DC 20V via the AC/DC adapter                                                                                                                            |
| Test Voltage:                                | Fully charged battery or AC 120V, 60Hz                                                                                                                                              |
| Adapter:                                     | Manufacturer: inyuanpower<br>Model: TYPE-C1001C<br>Input: 100-240V AC<br>Output: DC 5V/3A, DC 9V/3A, DC 15V/3A, DC 20V/5A, 100W Max                                                 |
| <b>Technical Specification of 5GHz Wi-Fi</b> |                                                                                                                                                                                     |
| Operating Frequency:                         | 5180-5240MHz, 5745-5825MHz                                                                                                                                                          |
| Protocol:                                    | 802.11 a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80                                                                                                                                      |
| Channel Number:                              | 5180-5240MHz, 7CHs<br>5745-5825MHz, 8CHs                                                                                                                                            |
| Type of Modulation:                          | OFDM, OFDMA                                                                                                                                                                         |
| Data Rate:                                   | 6/9/12/18/24/36/48/54 Mbps for 802.11a<br>MCS0~MCS7 for 802.11n<br>MCS0~MCS9 for 802.11ac<br>MCS0~MCS 11 for 802.11ax<br>(All data rates considered, only the Worst-cases reported) |
| Channel Separation:                          | 20MHz, 40MHz, 80MHz                                                                                                                                                                 |
| Antenna Type:                                | Integral Antenna                                                                                                                                                                    |
| Antenna Number:                              | 2Tx2Rx                                                                                                                                                                              |
| Antenna Gain:                                | 5180-5240MHz:<br>4.5 dBi for ANT1/2<br>5745-5825MHz:<br>0.68 dBi for ANT1/2<br>(Provided by the Client)                                                                             |
| RU Mode for 802.11ax:                        | <input checked="" type="checkbox"/> Full RU, <input type="checkbox"/> Single RU                                                                                                     |

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.

**Table 4: RF Channel and Frequency of 5GHz Wi-Fi**

| U-NII-1         |                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 20MHz Bandwidth |                 | 40MHz Bandwidth |                 | 80MHz Bandwidth |                 |
| Channel         | Frequency (MHz) | Channel         | Frequency (MHz) | Channel         | Frequency (MHz) |
| 36              | 5180            | 38              | 5190            | 42              | 5210            |
| 40              | 5200            | 46              | 5230            |                 |                 |
| 44              | 5220            |                 |                 |                 |                 |
| 48              | 5240            |                 |                 |                 |                 |

| 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, 5G Wi-Fi wireless transmitting mode
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. On, Charging + Normal working
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- FCC/IC Label and Location Info

## 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 tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *EinScan Scanner* in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

| Description     | Manufacturer              | Model           | Remark  |
|-----------------|---------------------------|-----------------|---------|
| Notebook PC     | Dell                      | Latitude 3490   | 2TJSXR2 |
| Router          | G-link                    | GL-MT3000       | N/A     |
| USB Hub         | UGREEN                    | CM636           | N/A     |
| Optical Tracker | Shining 3D Tech Co., Ltd. | EinScan Tracker | N/A     |

### 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)

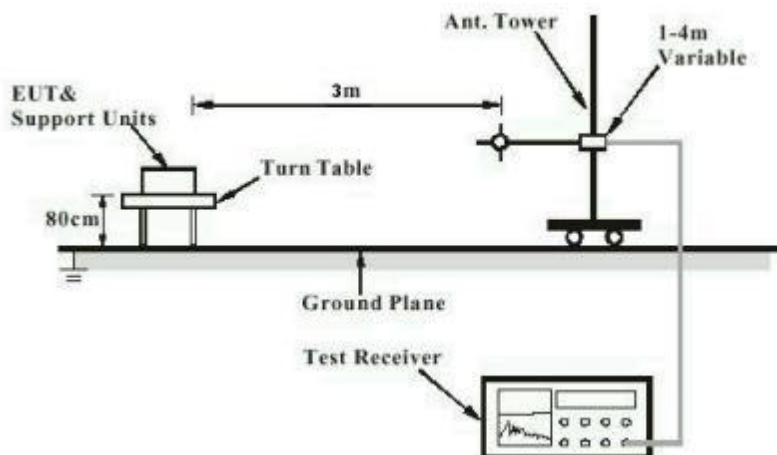
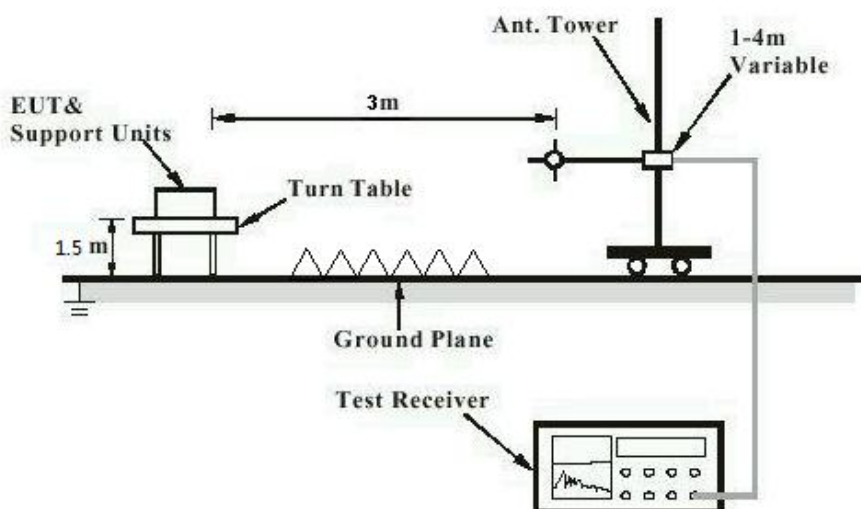
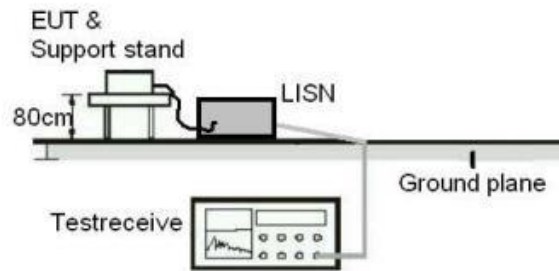


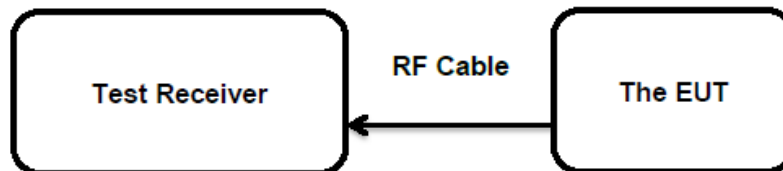
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

**Pass**

**Test Specification**

Test standard : FCC Part 15.203  
RSS-247 clause 6.8

The EUT has 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 15.407(a)(1)&(2)&(4)<br>RSS-247 clause 7.3                                                                                                                                                                                                                                              |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024                                                                                                                                                                                                                                  |
| Limits            | : FCC:<br><250mW (24dBm) (5150-5250MHz)<br><1W (30dBm) (5725-5850MHz)<br><br>IC:<br>* Max e.i.r.p.<200mW (23dBm) (5150-5250MHz)<br>*200 mW (23dBm) or 10 dBm + 10 logB, where B is the 99% emission<br>bandwidth in MHz, where is lesser.<br>Max conducted output power <1W (30dBm) (5725-5850MHz) |
| Kind of test site | : Shielded Room                                                                                                                                                                                                                                                                                    |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2026-05-22 to 2026-07-09 |
| Input voltage        | : Fully charged battery    |
| Operation mode       | : A                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 24 °C                    |
| Relative humidity    | : 56 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN26I7XU 002  
Test Report No.:Seite 16 von 22  
Page 16 of 22

### 5.1.3 Conducted Power Spectral Density

**RESULT:****Pass****Test Specification**

|                   |                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : FCC part 15.407(a)<br>RSS-247 clause 7.3                                                                                                                            |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024<br>KDB 789033 D02 v01r03                                                                            |
| Limits            | : FCC:<br><11dBm/MHz (5150-5250MHz)<br><30dBm/500kHz (5725-5850MHz)<br><br>IC:<br>e.i.r.p. spectral density <10dBm/MHz (5150-5250MHz)<br><30dBm/500kHz (5725-5850MHz) |
| Kind of test site | : Shielded Room                                                                                                                                                       |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2026-05-22 to 2026-07-09 |
| Input voltage        | : Fully charged battery    |
| Operation mode       | : A                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 24 °C                    |
| Relative humidity    | : 56 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

### 5.1.4 Frequency Stability

**RESULT:****Pass****Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC Part 15.407(g)<br>RSS-Gen Clause 6.11                       |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Limits            | : Within assigned bands                                           |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2026-05-22 to 2026-07-09 |
| Input voltage        | : Fully charged battery    |
| Operation mode       | : A                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 24 °C                    |
| Relative humidity    | : 56 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

**Prüfbericht - Nr.: CN26I7XU 002**  
Test Report No.:

Seite 18 von 22  
Page 18 of 22

### 5.1.5 26dB Bandwidth and 99% Bandwidth

**RESULT:**

**Pass**

**Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC Part 15.407<br>RSS-Gen Clause 6.7                           |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Limits            | : N/A                                                             |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2026-05-22 to 2026-07-09 |
| Input voltage        | : Fully charged battery    |
| Operation mode       | : A                        |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : 24 °C                    |
| Relative humidity    | : 56 %                     |
| Atmospheric pressure | : 101 kPa                  |

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN26I7XU 002**  
Test Report No.:Seite 19 von 22  
Page 19 of 22

### 5.1.6 6dB Bandwidth

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407(e)  
RSS-247 clause 7.3.4.2

Basic standard : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+  
C63.10a:2024

Limits : At least 500kHz (5725-5850MHz)

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2026-05-22 to 2026-07-09

Input voltage : Fully charged battery

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 24 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

### 5.1.7 Radiated Spurious Emission

**RESULT:****Pass****Test Specification**

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209<br>RSS-247 clause 7.3 & RSS-GEN clause 8.9 and 8.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024<br>KDB 789033 D02 v01r03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Limits            | : <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• Restricted Bands meet the requirement of 15.209 limit and RSS-GEN</li></ul> |
| Kind of test site | : 3m Semi-anechoic Chamber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Test Setup**

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : 2026-06-30 to 2026-07-01 |
| Input voltage        | : Fully charged battery    |
| Operation mode       | : A                        |
| 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 appendix A.

Prüfbericht - Nr.: CN26I7XU 002  
Test Report No.:Seite 21 von 22  
Page 21 of 22

### 5.1.8 Conducted Emission on AC Mains

**RESULT:****Pass****Test Specification**

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Test standard     | : FCC Part 15.207(a)<br>RSS-Gen Section 8.8                       |
| Basic standard    | : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+<br>C63.10a:2024 |
| Frequency range   | : 0.15 – 30MHz                                                    |
| Classification    | : Class B                                                         |
| Limits            | : FCC Part 15.207(a)<br>RSS-Gen Table 4                           |
| Kind of test site | : Shielded Room                                                   |

**Test Setup**

|                      |                        |
|----------------------|------------------------|
| Date of testing      | : 2026-05-20           |
| Input voltage        | : AC 120V, 60Hz        |
| Operation mode       | : B                    |
| Ambient temperature  | : Refer to test result |
| Relative humidity    | : Refer to test result |
| Atmospheric pressure | : 101 kPa              |

For the measurement records, refer to the appendix A.

## 6 Photographs of the Test Set-Up

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

## 7 List of Tables

|                                                           |    |
|-----------------------------------------------------------|----|
| Table 1: List of Test and Measurement Equipment.....      | 6  |
| Table 2: Measurement Uncertainty.....                     | 7  |
| Table 3: General Information of EUT .....                 | 9  |
| Table 4: RF Channel and Frequency of 5GHz Wi-Fi.....      | 10 |
| Table 5: List of Accessories and Auxiliary Equipment..... | 11 |