



Spot Check Evaluation

APPLICANT : PAX Technology Limited
EQUIPMENT : UNATTENDED PAYMENT TERMINAL
BRAND NAME : PAX
MODEL NAME : IM25
FCC ID : V5PIM25BW
STANDARD : 47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
47 CFR Part 15 Subpart C §15.225
TEST DATE(S) : Jun. 12, 2024 ~ Jun. 27, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY

Table with 4 columns: REPORT NO., VERSION, DESCRIPTION, ISSUED DATE. Row 1: 452701-01A, Rev. 01, Initial issue of report, Jul. 04, 2024.

Conformity Assessment Condition:

- 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/maintainer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1. Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

1.2. Manufacturer

PAX Computer Technology (Shenzhen) Co., Ltd.

Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

1.3. Product Feature of Equipment Under Test

| Product Feature | |
|-----------------|--|
| Equipment | UNATTENDED PAYMENT TERMINAL |
| Brand Name | PAX |
| Model Name | IM25 |
| FCC ID | V5PIM25BW |
| SN Code | Conducted/DFS: 3080000706 Conduction: 3080000722 Radiation: 3080000707 |
| HW Version | NA |
| SW Version | NA |
| EUT Stage | Production Unit |

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The WLAN and Bluetooth cannot transmit simultaneously.

1.4. Modification of EUT

No modifications are made to the EUT during all test items.

1.5. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|------------|------------|--------------------------|--------|------------|------------|
| 1. | AC Adapter | N/A | ADS-65HI-19A-2 24065E | N/A | N/A | N/A |



1.6. Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| | | | |
|---------------------------|---|----------------------------|---------------------------------------|
| Test Firm | Sporton International Inc. (ShenZhen) | | |
| Test Site Location | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | TH01-SZ CO01-SZ DFS01-SZ | CN1256 | 421272 |

| | | | |
|---------------------------|---|----------------------------|---------------------------------------|
| Test Firm | Sporton International Inc. (ShenZhen) | | |
| Test Site Location | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | 03CH01-SZ 03CH03-SZ 03CH05-SZ | CN1256 | 421272 |

1.7. Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------------|-------------|
| 1. | 03CH01-SZ | AUDIX | E3 | 6.2009-8-24 |
| 2. | 03CH03-SZ | AUDIX | E3 | 6.2009-8-24 |
| 3. | 03CH05-SZ | AUDIX | E3 | 6.2009-8-24 |
| 4. | CO01-SZ | AUDIX | E3 | 6.120613b |
| 5. | DFS01-SZ | Sporton | Test Tools | 1.0 |



1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 484596 D01 Referencing Test Data v02r03
- ♦ 47 CFR Part 15 Subpart C §15.225
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.26-2015



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: IM25, FCC ID: V5PIM25BW) is electrically identical to the reference device (Model: IM25, FCC ID: V5PIM254GBW) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

ECR Data Referencing Inquiry has been approved by FCC, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report, For SAR Reference detail, please refer to FCC SAR report FA452701-01.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in standalone conditions.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: V5PIM25BW .

2.2 Model Difference Information

The **main** difference between FCC ID: V5PIM254GBW and FCC ID: V5PIM25BW is as below:

- Remove WWAN module and antenna corresponding.

Other differences and all the details of similarity and difference can be found in the confidential documents (IM25_Operational Description of Product Equality Declaration).



2.3 Reference detail Section:

| Rule Part | Equipment Class | Frequency Band (MHz) | Reference FCC ID (Parent) | Reference on test | Reference Title | FCC ID Filling (Variant) | Test on the variant | Data Referencing (Y/N) |
|-----------|-----------------|------------------------|---------------------------|-------------------|-----------------|--------------------------|---------------------|------------------------|
| 15C | DSS (BR/EDR) | 2400~2483.5 | V5PIM254GBW | Full test | FR452701A | V5PIM25BW | Spot check | Y, All test items |
| | DTS (BLE) | 2400~2483.5 | V5PIM254GBW | Full test | FR452701B | V5PIM25BW | Spot check | Y, All test items |
| | DTS (WLAN) | 2400~2483.5 | V5PIM254GBW | Full test | FR452701C | V5PIM25BW | Spot check | Y, All test items |
| | DXX (NFC) | 13.56 | V5PIM254GBW | Full test | FR452701D | V5PIM25BW | Spot check | Y, All test items |
| 15E | U-NII | 5180~5240 | V5PIM254GBW | Full test | FR452701E | V5PIM25BW | Spot check | Y, All test items |
| | | 5260~5320 | V5PIM254GBW | Full test | FR452701E | V5PIM25BW | Spot check | Y, All test items |
| | | 5500~5700 | V5PIM254GBW | Full test | FR452701E | V5PIM25BW | Spot check | Y, All test items |
| | | 5745~5825 | V5PIM254GBW | Full test | FR452701E | V5PIM25BW | Spot check | Y, All test items |
| | | 5260~5320 5500~5700 | V5PIM254GBW | Full test | FZ452701 | V5PIM25BW | Spot check | Y, All test items |

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit

2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \tag{1}$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB}, \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \tag{2}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for spot check for each rule entry and technology is listed as below:



| Mode | Test Item | V5PIM254GBW Parent Worst mode Test Result | V5PIM25BW Variant Check Test Result | Deviation | Limit |
|-------------------------------|---|---|-------------------------------------|-----------|-------|
| BT 1Mbps (DH5-CH00) | Number of Channels (N) | 79 | 79 | 0 | 3 |
| | Hopping Channel Separation (MHz) | 0.986 | 0.994 | 0.008 | 3 |
| | Dwell Time of Each Channel(s) | 0.31 | 0.31 | 0 | 3 |
| | 20dB Bandwidth(MHz) | 1.074 | 1.070 | 0.004 | 3 |
| | 99% Bandwidth(MHz) | 0.899 | 0.917 | 0.018 | 3 |
| | Conducted Band Edges(dBm) | -46.22 | -46.77 | 0.55 | 3 |
| | Conducted Spurious Emission(dBm) | -36.38 | -38.13 | 1.75 | 3 |
| BT 1Mbps (DH5-CH78) | Radiated Band Edges and Radiated Spurious Emission (dBuV/m) | 49.79 | 49.25 | 0.54 | 3 |
| BT | AC Conducted Emission (dBuV) | 35.69 | 35.69 | 0 | 3 |
| BLE (1M-CH0) | 6dB Bandwidth (MHz) | 0.678 | 0.674 | 0.004 | 3 |
| | 99% Bandwidth (MHz) | 1.047 | 1.049 | 0.002 | 3 |
| | Power Spectral Density (dBm/3KHz) | -12.54 | -12.93 | 0.39 | 3 |
| | Conducted Band Edges and Spurious Emission (dBm) | -52.73 | -51.57 | 1.16 | 3 |
| | Conducted Spurious Emission (dBm) | -46.41 | -47.69 | 1.28 | 3 |
| BLE (1M-CH39) | Radiated Band Edges and Spurious Emission (dBuV/m) | 39.48 | 38.65 | 0.83 | 3 |
| BLE | AC Conducted Emission (dBuV) | 35.69 | 35.69 | 0 | 3 |
| WLAN 2.4G (802.11n HT20-CH01) | 6dB Bandwidth (MHz) | 15.20 | 15.16 | 0.04 | 3 |
| | 99% Bandwidth (MHz) | 17.78 | 17.83 | 0.05 | 3 |
| | Power Spectral Density (dBm/3KHz) | -8.79 | -9.09 | 0.3 | 3 |
| | Conducted Band Edges and Spurious Emission (dBm) | -33.15 | -32.21 | 0.94 | 3 |
| | Conducted Spurious Emission (dBm) | -46.37 | -47.77 | 1.4 | 3 |
| WLAN 2.4G (802.11n HT20-CH01) | Radiated Band Edges and Spurious Emission (dBuV/m) | 47.74 | 45.77 | 1.97 | 3 |
| WLAN 2.4G | AC Conducted Emission (dBuV) | 35.88 | 35.88 | 0 | 3 |



| Mode | Test Item | V5PIM254GBW Parent Worst mode Test Result | V5PIM25BW Variant Check Test Result | Deviation | Limit |
|------------------------------|--|---|-------------------------------------|-----------|-------|
| NFC | 20dB Emission Bandwidth (MHz) | 2.577 | 2.577 | 0 | 3 |
| | 99% Occupied Bandwidth (MHz) | 2.178 | 2.178 | 0 | 3 |
| | Frequency Stability(ppm) | 36.4676 | 34.292 | 2.1756 | 3 |
| | Field Strength of Fundamental (dBuV/m) | 67.29 | 66.51 | 0.78 | 3 |
| | Radiated Spurious Emissions (dBuV/m) | 30.45 | 31.61 | 1.16 | 3 |
| | AC Conducted Emission | 36.49 | 34.29 | 2.20 | 3 |
| WLAN 5G (802.11n HT20 CH116) | 26dB&99% Bandwidth (MHz) | 21.54 | 21.78 | 0.24 | 3 |
| | Power Spectral Density (dBm/MHz) | 4.33 | 3.56 | 0.77 | 3 |
| WLAN 5G (802.11n HT40 CH62) | Radiated Band Edges and Spurious Emission (dBuV/m) | 53.77 | 53.26 | 0.51 | 3 |
| WLAN 5G | AC Conducted Emission (dBuV) | 35.80 | 35.80 | 0 | 3 |
| WLAN 5G | DFS (s) | 0.984433 | 0.455215 | 0.529218 | 3 |

| Test Item | Mode | V5PIM254GBW Parent Worst mode Test Result | V5PIM25BW Variant Check Test Result | Deviation | Limit |
|------------------------------|--------------------|---|-------------------------------------|-----------|-------|
| Conducted Output Power (dBm) | BT BR/EDR | 6.83 | 6.75 | 0.08 | 3 |
| | BLE 1M/2Mbps | 3.36 | 3.22 | 0.14 | 3 |
| | 11b, 2.4GHz | 18.5 | 18.44 | 0.06 | 3 |
| | 11g, 2.4GHz | 23.27 | 23.22 | 0.05 | 3 |
| | 11n HT20, 2.4GHz | 23.35 | 23.14 | 0.21 | 3 |
| | 11a | 14.76 | 14.7 | 0.06 | 3 |
| | 11n HT20 | 14.83 | 14.72 | 0.11 | 3 |
| | 11n HT40 | 13.79 | 13.65 | 0.14 | 3 |
| | 11ac VHT80 | 10.59 | 10.52 | 0.07 | 3 |
| | 11a, 5.8GHz | 14.45 | 14.3 | 0.15 | 3 |
| | 11n HT20, 5.8GHz | 14.78 | 14.66 | 0.12 | 3 |
| | 11n HT40, 5.8GHz | 13.89 | 13.75 | 0.14 | 3 |
| | 11ac VHT80, 5.8GHz | 10.64 | 10.55 | 0.09 | 3 |



Conclusion:

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

The same detection mechanism/software/antenna gain is used in the variant of DFS. Hence, all test cases refer to parent report.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 List of Measuring Equipment

For BT/WIFI2.4G:

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|--------------|------------------------------|--------------|------------------------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 09, 2024 | Jun. 27, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ) |
| Pulse Power Sensor | Anritsu | MA2411B | 1339473 | 30MHz~40GHz | Dec. 29, 2023 | Jun. 27, 2024 | Dec. 28, 2024 | Conducted (TH01-SZ) |
| Power Meter | Anritsu | ML2495A | 1218010 | 50MHz Bandwidth | Aug. 21, 2023 | Jun. 27, 2024 | Aug. 20, 2024 | Conducted (TH01-SZ) |
| Thermo meter | Anymetre | JR593 | #7 | - 10°C ~ 50°C 10%RH~99%RH | Apr. 09, 2024 | Jun. 27, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ) |
| EMI Test Receiver&SA | Agilent | N9038A | MY52260185 | 20Hz~26.5GHz | Dec. 27, 2023 | Jun. 25, 2024 | Dec. 26, 2024 | Radiation (03CH01-SZ) |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY55150213 | 10Hz~44GHz | Jul. 07, 2023 | Jun. 25, 2024 | Jul. 06, 2024 | Radiation (03CH01-SZ) |
| Loop Antenna | R&S | HFH2-Z2 | 100354 | 9kHz~30MHz | Jul. 28, 2022 | Jun. 25, 2024 | Jul. 27, 2024 | Radiation (03CH01-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35407 | 30MHz-2GHz | Oct. 24, 2023 | Jun. 25, 2024 | Oct. 23, 2025 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00119436 | 1GHz~18GHz | Jul. 08, 2023 | Jun. 25, 2024 | Jul. 07, 2024 | Radiation (03CH01-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18GHz-40GHz | Apr. 09, 2024 | Jun. 25, 2024 | Apr. 08, 2025 | Radiation (03CH01-SZ) |
| LF Amplifier | Burgeon | BPA-530 | 102209 | 0.01~3000Mhz | Apr. 09, 2024 | Jun. 25, 2024 | Apr. 08, 2025 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | AMF-7D-0010 1800-30-10P-R | 1943528 | 1GHz~18GHz | Oct. 18, 2023 | Jun. 25, 2024 | Oct. 17, 2024 | Radiation (03CH01-SZ) |
| HF Amplifier | KEYSIGHT | 83017A | MY53270105 | 0.5GHz~26.5GHz | Oct. 18, 2023 | Jun. 25, 2024 | Oct. 17, 2024 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 07, 2023 | Jun. 25, 2024 | Jul. 06, 2024 | Radiation (03CH01-SZ) |
| AC Power Source | Chroma | 61601 | 616010001985 | N/A | Oct. 18, 2023 | Jun. 25, 2024 | Oct. 17, 2024 | Radiation (03CH01-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | Jun. 25, 2024 | NCR | Radiation (03CH01-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | Jun. 25, 2024 | NCR | Radiation (03CH01-SZ) |
| EMI Receiver | R&S | ESR7 | 101630 | 9kHz~7GHz; | Jul. 06, 2023 | Jun. 19, 2024 | Jul. 05, 2024 | Conduction (CO01-SZ) |
| AC LISN | R&S | ENV216 | 100063 | 9kHz~30MHz | Aug. 21, 2023 | Jun. 19, 2024 | Aug. 20, 2024 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | EMCO | 3816/2SH | 00103892 | 9kHz~30MHz | Oct. 16, 2023 | Jun. 19, 2024 | Oct. 15, 2024 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000891 | 100Vac~250Vac | Jul. 07, 2023 | Jun. 19, 2024 | Jul. 06, 2024 | Conduction (CO01-SZ) |

NCR: No Calibration Required.



For NFC:

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|---------------------------|-----------|--------------|-----------------|------------------|---------------|---------------|-----------------------|
| EMI Test Receiver | R&S | ESR7 | 102261 | 9kHz~7GHz | Apr. 09, 2024 | Jun. 12, 2024 | Apr. 08, 2025 | Radiation (03CH05-SZ) |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY59071191 | 10Hz~44GHz | Apr. 09, 2024 | Jun. 12, 2024 | Apr. 08, 2025 | Radiation (03CH05-SZ) |
| Loop Antenna | R&S | HFH2-Z2 | 100354 | 9kHz~30MHz | Jul. 28, 2022 | Jun. 12, 2024 | Jul. 27, 2024 | Radiation (03CH05-SZ) |
| Log-periodic Antenna | SCHWARZBECK | VULB 9168 | 01001 | 20MHz~1.5GHz | Jul. 08, 2023 | Jun. 12, 2024 | Jul. 07, 2024 | Radiation (03CH05-SZ) |
| Amplifier | EM Electronics | EM330 | 060756 | 0.01Hz~3000MHz | Apr. 09, 2024 | Jun. 12, 2024 | Apr. 08, 2025 | Radiation (03CH05-SZ) |
| AC Power Source | APC | AFV-S-600 | F119050013 | N/A | Oct. 18, 2023 | Jun. 12, 2024 | Oct. 17, 2024 | Radiation (03CH05-SZ) |
| Turn Table | EMEC | T-200-S-1 | 060925-T | 0~360 degree | NCR | Jun. 12, 2024 | NCR | Radiation (03CH05-SZ) |
| Antenna Mast | EMEC | MBS-400-1 | 060927 | 1 m~4 m | NCR | Jun. 12, 2024 | NCR | Radiation (03CH05-SZ) |
| EMI Receiver | R&S | ESR7 | 101630 | 9kHz~7GHz; | Jul. 06, 2023 | Jun. 19, 2024 | Jul. 05, 2024 | Conduction (CO01-SZ) |
| AC LISN | R&S | ENV216 | 100063 | 9kHz~30MHz | Aug. 21, 2023 | Jun. 19, 2024 | Aug. 20, 2024 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | EMCO | 3816/2SH | 00103892 | 9kHz~30MHz | Oct. 16, 2023 | Jun. 19, 2024 | Oct. 15, 2024 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000891 | 100Vac~250Vac | Jul. 07, 2023 | Jun. 19, 2024 | Jul. 06, 2024 | Conduction (CO01-SZ) |
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 09, 2024 | Jun. 27, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ) |
| Thermal Chamber | Ten Billion Hongzhangroup | LP-150U | H2014081803 | -40~+150°C | Jul. 05, 2023 | Jun. 27, 2024 | Jul. 04, 2024 | Conducted (TH01-SZ) |

NCR: No Calibration Required.



For WIFI5G:

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|----------------------|--------------------------|--------------|------------------------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 09, 2024 | Jun. 27, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ) |
| Pulse Power Sensor | Anritsu | MA2411B | 1339473 | 30MHz~40GHz | Dec. 29, 2023 | Jun. 27, 2024 | Dec. 28, 2024 | Conducted (TH01-SZ) |
| Power Meter | Anritsu | ML2495A | 1218010 | 50MHz Bandwidth | Aug. 21, 2023 | Jun. 27, 2024 | Aug. 20, 2024 | Conducted (TH01-SZ) |
| Thermo meter | Anymetre | JR593 | #7 | - 10°C ~ 50°C 10%RH~99%RH | Apr. 09, 2024 | Jun. 27, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ) |
| EMI Test Receiver&SA | KEYSIGHT | N9038A | MY54450083 | 20Hz~8.4GHz | Apr. 09, 2024 | Jun. 26, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY55150246 | 10Hz~44GHz; | Apr. 09, 2024 | Jun. 26, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Loop Antenna | R&S | HFH2-Z2 | 100354 | 9kHz~30MHz | Jul. 28, 2022 | Jun. 26, 2024 | Jul. 27, 2024 | Radiation (03CH03-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35408 | 30MHz~2GHz | Aug. 20, 2023 | Jun. 26, 2024 | Aug. 19, 2025 | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-1355 | 1GHz~18GHz | Apr. 09, 2024 | Jun. 26, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 07, 2023 | Jun. 26, 2024 | Jul. 06, 2024 | Radiation (03CH03-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18Ghz~40GHz | Apr. 09, 2024 | Jun. 26, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Amplifier | Burgeon | BPA-530 | 102211 | 0.01Hz ~3000MHz | Oct. 18, 2023 | Jun. 26, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| HF Amplifier | MITEQ | AMF-7D-00101800-30-10P-R | 1943528 | 1GHz~18GHz | Oct. 18, 2023 | Jun. 26, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| Amplifier | Agilent Technologies | 83017A | MY39501302 | 500MHz~26.5GHz | Dec. 27, 2023 | Jun. 26, 2024 | Dec. 26, 2024 | Radiation (03CH03-SZ) |
| AC Power Source | Chroma | 61601 | 616010002729 | N/A | Oct. 18, 2023 | Jun. 26, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | Jun. 26, 2024 | NCR | Radiation (03CH03-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | Jun. 26, 2024 | NCR | Radiation (03CH03-SZ) |
| EMI Receiver | R&S | ESR7 | 101630 | 9kHz~7GHz; | Jul. 06, 2023 | Jun. 19, 2024 | Jul. 05, 2024 | Conduction (CO01-SZ) |
| AC LISN | R&S | ENV216 | 100063 | 9kHz~30MHz | Aug. 21, 2023 | Jun. 19, 2024 | Aug. 20, 2024 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | EMCO | 3816/2SH | 00103892 | 9kHz~30MHz | Oct. 16, 2023 | Jun. 19, 2024 | Oct. 15, 2024 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000891 | 100Vac~250Vac | Jul. 07, 2023 | Jun. 19, 2024 | Jul. 06, 2024 | Conduction (CO01-SZ) |
| MXG-B RF Vector Signal Generator | Keysight | N5182B | MY56200424 | 9kHz~6GHz | Apr. 09, 2024 | May 18, 2024 | Apr. 08, 2025 | DFS (DFS01-SZ) |
| Combiner | TOJOIN | PS-2AM-0460 | SZE14011007 | 0.4~6GHz | Sep. 05, 2023 | May 18, 2024 | Sep. 04, 2024 | DFS (DFS01-SZ) |

NCR: No Calibration Required

4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement (BT/WIFI2.4G/5G)

| Test Item | Uncertainty |
|--|-------------|
| Conducted Spurious Emission & Bandedge | ±1.34 dB |
| Occupied Channel Bandwidth | ±0.012 MHz |
| Conducted Power | ±1.34 dB |
| Conducted Power Spectral Density | ±1.32 dB |
| Frequency | ±1.3 Hz |

Uncertainty of Conducted Measurement (DFS)

| Test Item | Uncertainty |
|-----------------------------------|-------------|
| Conducted Generated signal Levels | ±0.62 dB |
| Conducted Time | 0.38% |

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.5 dB |
|---|--------|



03CH01-SZ(BT/WIFI2.4G):

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.8 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.2 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.3 dB |
|---|--------|

03CH03-SZ(WIFI5G):

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.9dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---|-------|



03CH05-SZ(NFC):

Uncertainty of Conducted Measurement

| Test Item | Uncertainty |
|----------------------------|-------------|
| Occupied Channel Bandwidth | ±0.012 MHz |
| Frequency | ±1.3 Hz |

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.5 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.2 dB |
|---|--------|

-----THE END-----