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ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.3.1 (2024-09)

TEST REPORT

For

SHENZHEN TENDA TECHNOLOGY CO., LTD.

6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Tested Model: AX12 Pro

Report Type: Amended Report	Product Name: AX3000 Dual Band Gigabit Wi-Fi 6 Router
Report Number:	RSZA251230001-02ZM1
Report Date:	2026-04-21
Reviewed By:	Tim Wang
Approved By:	Kyle Xu
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan) Building 2 & 6, No.248, Chenghu Road, Development Zone, Yushan, Kunshan, Suzhou, Jiangsu, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

TABLE OF CONTENTS

REPORT REVISION HISTORY	4
GENERAL INFORMATION	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE.....	5
TEST METHODOLOGY	5
TEST FACILITY	5
MEASUREMENT UNCERTAINTY	6
SYSTEM TEST CONFIGURATION	7
DESCRIPTION OF TEST CONFIGURATION.....	7
EUT EXERCISE SOFTWARE.....	7
EQUIPMENT MODIFICATIONS.....	7
SUPPORT EQUIPMENT LIST AND DETAILS.....	7
EXTERNAL I/O CABLE	7
CONFIGURATION OF RADIATION TEST SETUP.....	8
SUMMARY OF TEST RESULTS.....	9
TEST EQUIPMENT LIST.....	10
§8.4 - AC MAINS POWER INPUT/OUTPUT PORTS	12
TEST SYSTEM SETUP	12
EMI TEST RECEIVER SETUP	13
TEST PROCEDURE	13
TEST DATA: SEE EXHIBIT A	13
§8.7 - WIRED NETWORK PORTS	14
TEST SYSTEM SETUP	14
EMI TEST RECEIVER SETUP	15
TEST PROCEDURE	15
TEST DATA: SEE EXHIBIT A	15
§8.2 - ENCLOSURE PORT	16
TEST SYSTEM SETUP	16
EMI TEST RECEIVER SETUP	18
TEST PROCEDURE	18
TEST DATA: SEE EXHIBIT A	18
§8.6 - FLICKER (AC MAINS INPUT PORT)	19
TEST SYSTEM SETUP	19
TEST STANDARD	19
TEST DATA: SEE EXHIBIT A	20
§9.3 - ELECTROSTATIC DISCHARGE.....	21
TEST SYSTEM SETUP	21
TEST STANDARD	21
TEST PROCEDURE.....	22
TEST DATA: SEE EXHIBIT A	22
§9.2 - RADIO FREQUENCY ELECTROMAGNETIC FIELD (80 MHZ – 6000 MHZ).....	23
TEST SYSTEM SETUP	23
TEST STANDARD	23
TEST PROCEDURE.....	24
TEST DATA: SEE EXHIBIT A	24
§9.4 - FAST TRANSIENTS, COMMON MODE	25
TEST SYSTEM SETUP	25
TEST STANDARD	25
TEST PROCEDURE.....	25
TEST DATA: SEE EXHIBIT A	25

§9.8 - SURGES	26
TEST SYSTEM SETUP	26
TEST STANDARD	26
TEST PROCEDURE	26
TEST DATA: SEE EXHIBIT A	26
§9.5 - RF COMMON MODE	27
TEST SYSTEM SETUP	27
TEST STANDARD	27
TEST PROCEDURE	27
TEST DATA: SEE EXHIBIT A	27
§9.7 - VOLTAGE DIPS AND INTERRUPTIONS.....	28
TEST SYSTEM SETUP	28
TEST STANDARD	28
TEST PROCEDURE	28
TEST DATA: SEE EXHIBIT A	28
EXHIBIT A - TEST DATA.....	29
AC MAINS POWER INPUT/OUTPUT PORTS	29
WIRED NETWORK PORTS	31
ENCLOSURE PORT.....	32
ELECTROSTATIC DISCHARGES.....	34
RADIO FREQUENCY ELECTROMAGNETIC FIELD	36
ELECTRICAL FAST TRANSIENTS/BURST	37
SURGES.....	38
CONTINUOUS INDUCED RF DISTURBANCES.....	40
VOLTAGE DIPS AND INTERRUPTIONS	41
EXHIBIT B - EUT PHOTOGRAPHS	42
EXHIBIT C - TEST SETUP PHOTOGRAPHS	54
CE - FRONT VIEW FOR POWER PORT	54
CE - LEFT VIEW FOR POWER PORT	54
CE - FRONT VIEW FOR SIGNAL PORT	55
CE - LEFT VIEW FOR SIGNAL PORT	55
RE - FRONT VIEW (BELOW 1 GHz)	56
RE - REAR VIEW (BELOW 1 GHz).....	56
RE - SIDE VIEW (ABOVE 1 GHz).....	57
FLICKER	57
ESD.....	58
RS (BELOW 1 GHz).....	58
RS (ABOVE 1 GHz)	59
EFT/B & SURGES & DIPS FOR POWER PORT	59
EFT/B FOR SIGNAL PORT	60
SURGE FOR SIGNAL PORT ☆	60
CS FOR POWER PORT.....	61
CS FOR SIGNAL PORT	61

REPORT REVISION HISTORY

Revision	Report Number	Release Date	Contents
R1V1	RSZA251230001-02Z	2026-02-10	Original Report Invalidated
R1V2	RSZA251230001-02ZM1	2026-04-21	1. Change "Applicant" to "Manufacturer" in the table on page 5. 2. Remove the note below the table on page 5. 3. Remove the "VBW" column from the EMI Test Receiver Setup section of the conducted emissions chapter.

Note: The amended report (Report No.: RSZA251230001-02ZM1) supersedes and replaces the previous issued report (Report No.: RSZA251230001-02Z). Please discard or destroy the previous issued report and dispose of it accordingly.

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Manufacturer:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Product Name:	AX3000 Dual Band Gigabit Wi-Fi 6 Router
Tested Model:	AX12 Pro
Power Supply:	DC 12 V from adapter
★Highest Operation Frequency:	5850 MHz

Adapter Information:

Model: BW0121201000WE

Input: AC 100 - 240V, 50/60Hz, 0.5A

Output: DC 12.0V 1.0A, 12.0W

All measurement and test data in this report was gathered from production samples serial number: RSZA251230001-1 (Assigned by the BACL (Kunshan).The EUT was received on 2025-12-30.)

Objective

This test report is prepared for SHENZHEN TENDA TECHNOLOGY CO., LTD. in accordance with:

ETSI EN 301 489-1 V2.2.3 (2019-11), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

ETSI EN 301 489-17 V3.3.1 (2024-09), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband and Wideband Data Transmission Systems.

The objective is to determine compliance with ETSI EN 301489-1 V2.2.3 (2019-11), ETSI EN 301 489-17 V3.3.1 (2024-09).

Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 489-1 V2.2.3 (2019-11).

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Building 2 & 6, No.248, Chenghu Road, Development Zone, Yushan, Kunshan, Suzhou, Jiangsu, China.

☆The test site used by Bay Area Compliance Laboratories Corp. (ShenZhen) to collect Surge (Wired Network Port) test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China. It’s CNAS code is “CNAS L2408”. This test item is covered by the CNAS accreditation scope at that time.

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the product as specified in CISPR 16-4-2. This uncertainty represents expanded uncertainty expressed at 95.45% confidence level using a coverage factor of k=2.

If U_{lab} is less than or equal to U_{cispR} , then: – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit.

$$u_c(y) = \sqrt{\sum_i c_i^2 u^2(x_i)}$$

Measurement		U_{cispR}	$U_{\text{lab}} = 2 u_c(y)$
Conducted disturbance at AC mains and other port power using a V-AMN	(150 kHz to 30 MHz)	3.4 dB	3.08 dB
Conducted disturbance at telecommunication port using AAN	(150 kHz to 30 MHz)	5.0 dB	4.92 dB
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1 000 MHz)	6.3 dB	4.98 dB
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB	3.68 dB

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical mode (as normally used by a typical user).

Test mode 1: Wi-Fi communication link (Worst Case)

Test mode 2: Wi-Fi standby

Note: For EMI, only worst case mode data was recorded in report.

EUT Exercise Software

No exercise software was used to test.

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

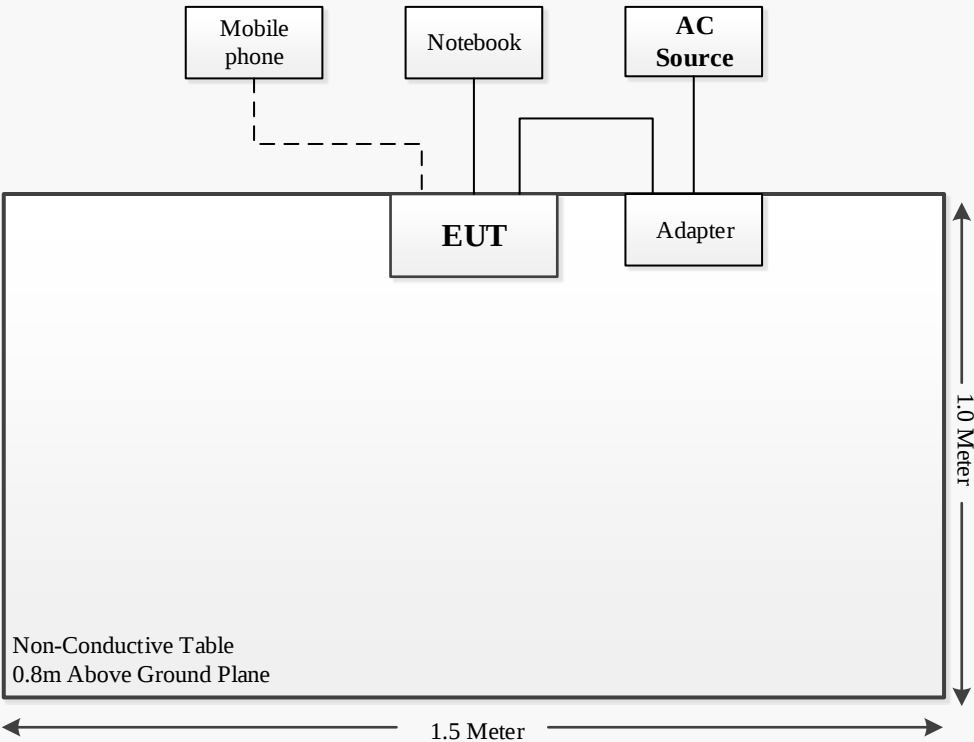
Manufacturer	Description	Model	Serial Number
TECNO	Mobile phone	CG8	352302590000885
Lenovo	Notebook	TP00072B	N/A

External I/O Cable

Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	AC Source	Adapter
Power Cable 2	1.5	Adapter	EUT
RJ45 Cable	3.0	EUT	Notebook

Configuration of Radiation Test Setup

Test mode 1:



SUMMARY OF TEST RESULTS

Test Requirements	Description of Test	Result
Reference to clauses EN 301 489-1 §7.1	Reference to clauses EN 301 489-1 §8.2 Enclosure port	Compliant
	Reference to clauses EN 301 489-1 §8.3 DC power input/output ports	Not Applicable (See Note 1)
	Reference to clauses EN 301 489-1 §8.4 AC mains power input/output ports	Compliant
	Reference to clauses EN 301 489-1 §8.5 Harmonic current emissions (AC mains input port)	Not Applicable (See Note 2)
	Reference to clauses EN 301 489-1 §8.6 Voltage fluctuations and flicker (AC mains input port)	Compliant
	Reference to clauses EN 301 489-1 §8.7 Wired network ports	Not Applicable (See Note 3)
Reference to clauses EN 301 489-1 §7.2	Reference to clauses EN 301 489-1 §9.3 Electrostatic discharge (EN 61000-4-2)	Compliant
	Reference to clauses EN 301 489-1 §9.2 Radio frequency electromagnetic field (80 MHz to 6000 MHz) (EN IEC 61000-4-3)	Compliant
	Reference to clauses EN 301 489-1 §9.4 Fast transients, common mode (EN 61000-4-4)	Compliant
	Reference to clauses EN 301 489-1 §9.8 Surges (EN 61000-4-5)	Compliant☆
	Reference to clauses EN 301 489-1 §9.5 Radio frequency, common mode (EN IEC 61000-4-6)	Compliant
	Reference to clauses EN 301 489-1 §9.7 Voltage dips and interruptions (EN IEC 61000-4-11)	Compliant
	Reference to clauses EN 301 489-1 §9.6 Transients and surges in the vehicular environment (ISO 7637-2)	Not Applicable (See Note 4)

Note:

1. The EUT intended for direct connection to a dedicated AC/DC power supply, then the measurement shall be performed on the AC power input port.
2. According to EN IEC 61000-3-2 section 7: Equipment with a rated power of 75 W or less, other than lighting equipment, are not included in this standard.
3. The EUT has no wired network ports.
4. This equipment will not in vehicular environment.

Immunity test performance criteria:

“Continuous phenomena” means: A, CT/CR. Reference to clauses EN 301 489-1 §6.1/ EN 301 489-17 §6.3

“Transient phenomena” means: B, C, TT/TR. Reference to clauses EN 301 489-1 §6.2/ EN 301 489-17 §6.4

Compliant☆: Wired Network Port was tested by Bay Area Compliance Laboratories Corp. (Shenzhen).

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
Rohde & Schwarz	EMI Test Receiver	ESR3	101746	2025-04-08	2026-04-07
Narda	Attenuator	10 dB	N/A	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	LISN	ENV216	101130	2025-04-08	2026-04-07
COM-POWER	ISN	CDN T8SE	34260011	2025-10-20	2026-10-19
Radiated Emissions Chamber 1# (30 MHz – 1 GHz)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
Narda	6 dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
Sonoma Instrument	Amplifier	310N	171205	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Rohde & Schwarz	Test Software	EMC32	V9.10.00	N/A	N/A
Voltage Fluctuations and Flicker					
EM TEST	Single-phase harmonic and flicker analyzer	DPA 500N	P1402129120	2025-04-08	2026-04-07
EM TEST	Single-phase AC voltage supply	ACS 500N	P1251107475	2025-04-08	2026-04-07
EM TEST	Test Software	net.control	Version 3.0.9	N/A	N/A
Radiated Emissions Chamber 2# (Above 1 GHz)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
Electro-Mechanics	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
A.H.Systems,inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
Rohde & Schwarz	Test Software	EMC32	V9.10.00	N/A	N/A
Continuous RF electromagnetic field disturbances					
Agilent	Signal Generator	E4428C	MY49070179	2025-04-08	2026-04-07
Agilent	Power Meter	E4419B	GB43312421	2025-08-28	2026-08-27
BACL Dongguan	Test software	IEC 61000-3&6	V2.7.7	N/A	N/A
AR	Power Amplifier	200W1000M3A	18062	2025-04-09	2026-04-08
Agilent	Power Sensor	8482A	US37295958	2025-04-08	2026-04-07
AR	Log-Periodic Antenna	ATL80M1G	350122	N/A	N/A
WERLATONE	Dual Directional Coupler	C5982-14	116140	N/A	N/A
AR	Power Amplifier	60S1G6	0369442	2025-04-09	2026-04-08
HEWLETT PACKARD	Power Sensor	8481A	2702A68993	2025-04-11	2026-04-10
ETS-LINDGREN	Horn Antenna	3115	6229	N/A	N/A
WERLATONE	Dual Directional Coupler	C10117-14	116227	N/A	N/A

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Continuous Induced RF Disturbances or Injected Currents – CS					
Agilent	Signal Generator	8648C	3537A01810	2025-04-08	2026-04-07
AR	Power Amplifier	25A250A	22832	2025-09-23	2026-09-22
WERLATONE INC. BREWSTER, N.Y.	High Power Directional Coupler	C1460	4518	N/A	N/A
Dressler	Attenuator	ATT 6/75	510020010004	2025-04-08	2026-04-07
BACL Dongguan	Test Software	Main_CS_Test_ 02.00.26.SP	0A.00.00	N/A	N/A
COM-POWER	CDN	CDN M225E	511098	2025-06-03	2026-06-02
COM-POWER	CDN	CDN T8E	581416	2025-06-03	2026-06-02
Electrostatic discharge					
TESEQ	ESD Simulator	NSG 438	1079	2025-04-11	2026-04-10
Electrical Fast Transients/Burst & Surges & Voltage Dips and Interruptions					
HTEC	Single-phase AC Faulty Power Supply	HV1P16T	214401	2025-06-05	2026-06-04
HTEC	Transient Integrated Immunity Generator	HCOMPACT 7	214402	2025-04-08	2026-04-07
Schaffner	Capacitive Coupling Clamp	CDN 125	240-9219	2025-04-11	2026-04-10

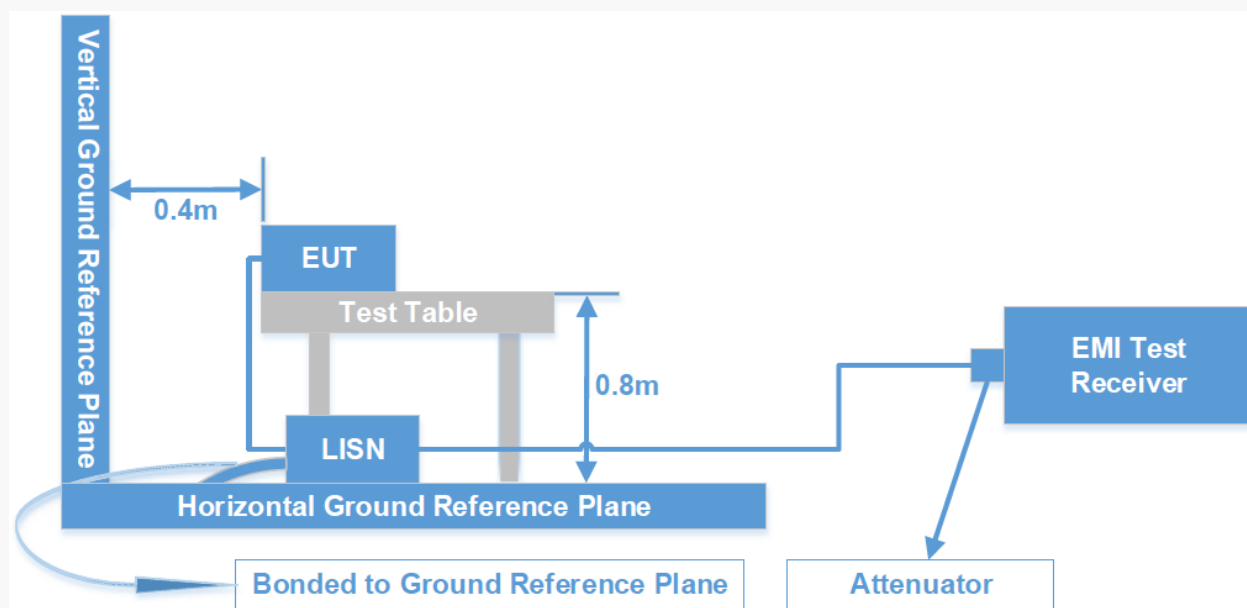
Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Surges(Wired Network Port)					
EM TEST	AC Source	MV2616	V0939105173	2025-09-11	2026-09-10
EM TEST	EMS Combination Tester	UCS 500 N5	V0939105172	2025-09-08	2026-09-07
EMC PARTNER	Surge CDN coupling decoupling network	CDN-UTP8 ED3	106326-1636	2025-09-22	2026-09-21
EM TEST	IEC.Control	V5.1.3.0	135689	N/A	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (ShenZhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

§ 8.4 - AC MAINS POWER INPUT/OUTPUT PORTS

Test System Setup



The setup of EUT is according with ETSI EN 301 489-1 measurement procedures. The specification used was with the ETSI EN 301 489-1 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

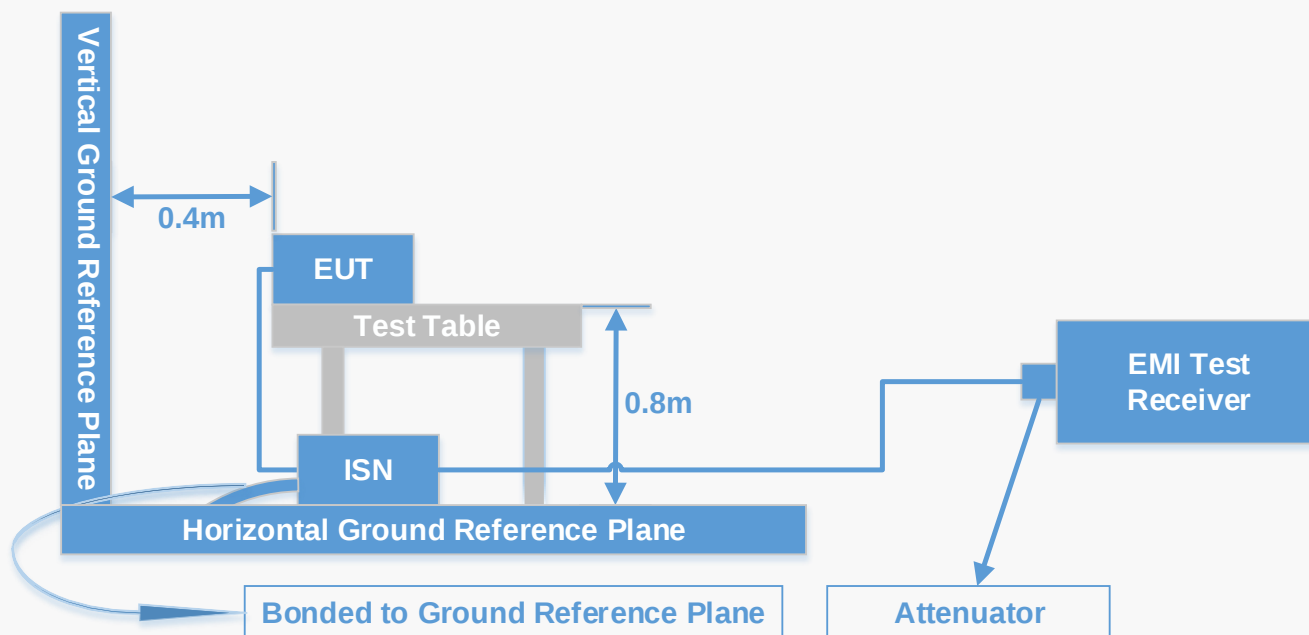
The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

Test Data: See Exhibit A

§8.7 - WIRED NETWORK PORTS

Test System Setup



The setup of EUT is according with ETSI EN 301 489-1 measurement procedures. The specification used was with the ETSI EN 301 489-1 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW
150 kHz - 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{ISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Level (dB}\mu\text{V)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

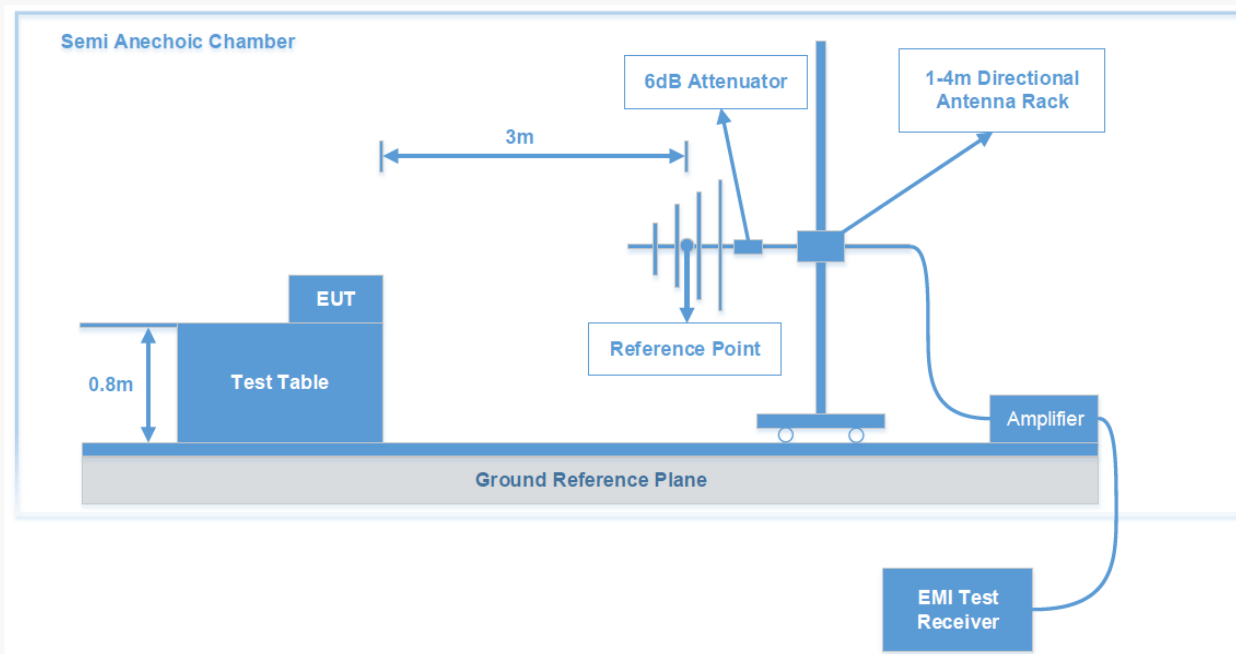
$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

Test Data: See Exhibit A

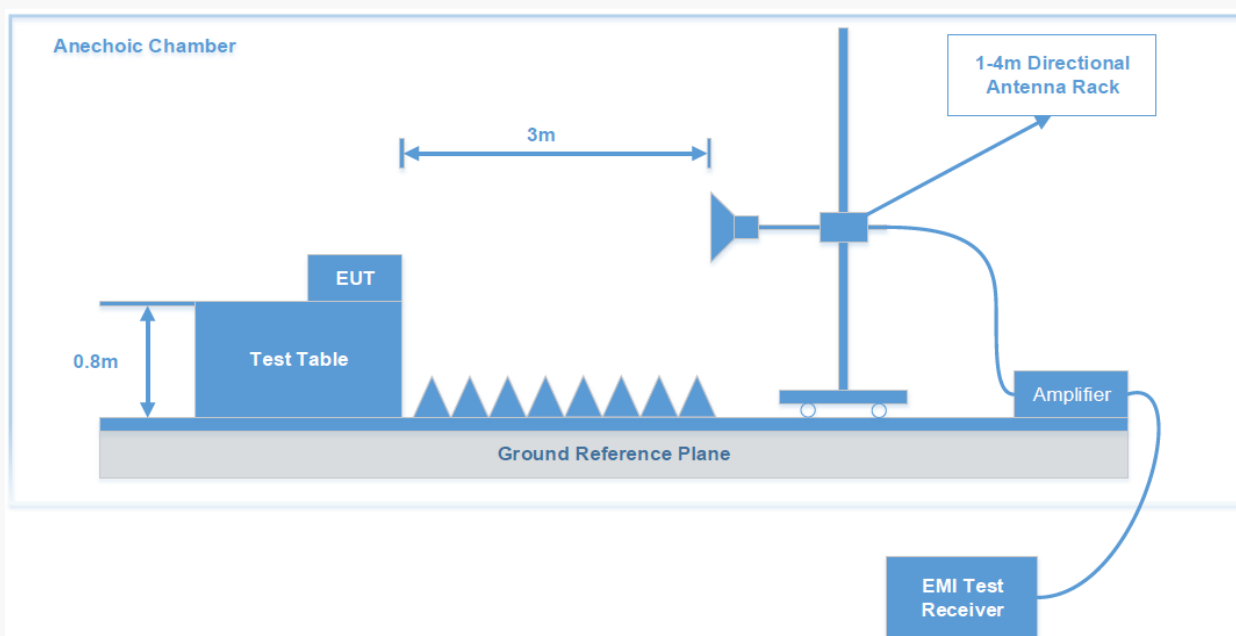
§8.2 - ENCLOSURE PORT

Test System Setup

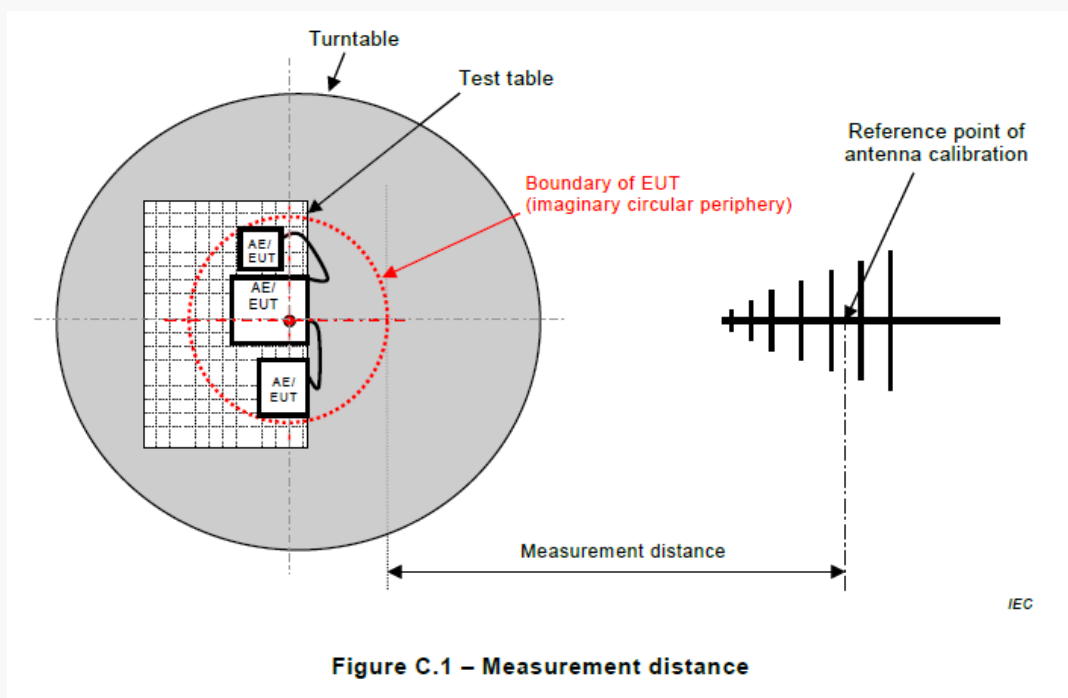
Below 1 GHz:



Above 1 GHz:



Radiated Top View:



The radiated emission tests were performed in the 3 meters, using the setup accordance with ETSI EN 301 489-1 measurement procedures. The specification used was with ETSI EN 301 489-1 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	3 MHz	/	Average

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 10 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier Gain (dB)

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a Margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

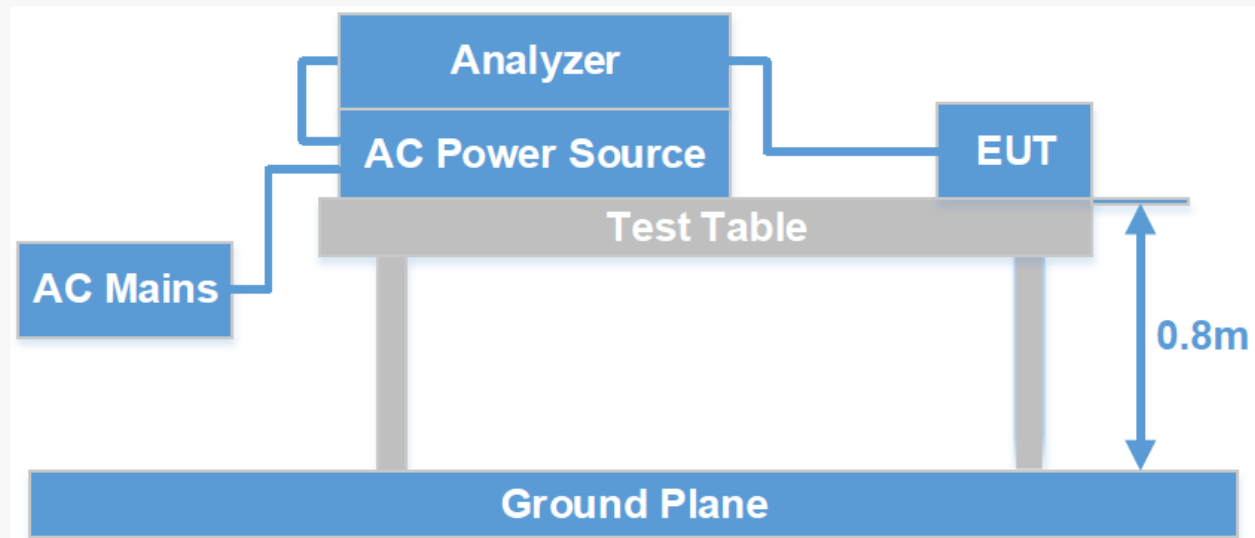
Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

Test Data: See Exhibit A

§8.6 - FLICKER (AC MAINS INPUT PORT)

Test System Setup



Test Standard

EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022-01

Flicker Test Limits

The limits shall be applicable to voltage fluctuations and flicker at the supply terminals of the equipment under test, measured or calculated according to clause 4 under test conditions described in clause 6 and annex A. Tests made to prove compliance with the limits are considered to be type tests.

The following limits apply:

- the value of P_{st} shall not be greater than 1,0;
- the value of P_{lt} shall not be greater than 0,65;
- T_{max} , the accumulated time value of $d(t)$ with a deviation exceeding 3,3 % during a single voltage change at the EUT terminals, shall not exceed 500 ms;
- the relative steady-state voltage change, d_c , shall not exceed 3,3 %;
- the maximum relative voltage change d_{max} , shall not exceed:
 - a) 4 % without additional conditions;
 - b) 6 % for equipment which is:
 - switched manually, or
 - switched automatically more frequently than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds), or manual restart, after a power supply interruption.

Note: The cycling frequency will be further limited by the P_{st} and P_{lt} limit. For example: a d_{max} of 6 % producing a rectangular voltage change characteristic twice per hour will give a P_{lt} of about 0,65.

c) 7 % for equipment which is:

- attended whilst in use (for example: hair dryers, vacuum cleaners, kitchen equipment such as mixers, garden equipment such as lawn mowers, portable tools such as electric drills), or
- switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds) or manual restart, after a power supply interruption.

In the case of equipment having several separately controlled circuits in accordance with 6.6, limits b) and c) shall apply only if there is delayed or manual restart after a power supply interruption; for all equipment with automatic switching which is energized immediately on restoration of supply after a power supply interruption, limits a) shall apply.

For all equipment with manual switching, limits b) or c) shall apply depending on the rate of switching typical of normal operation.

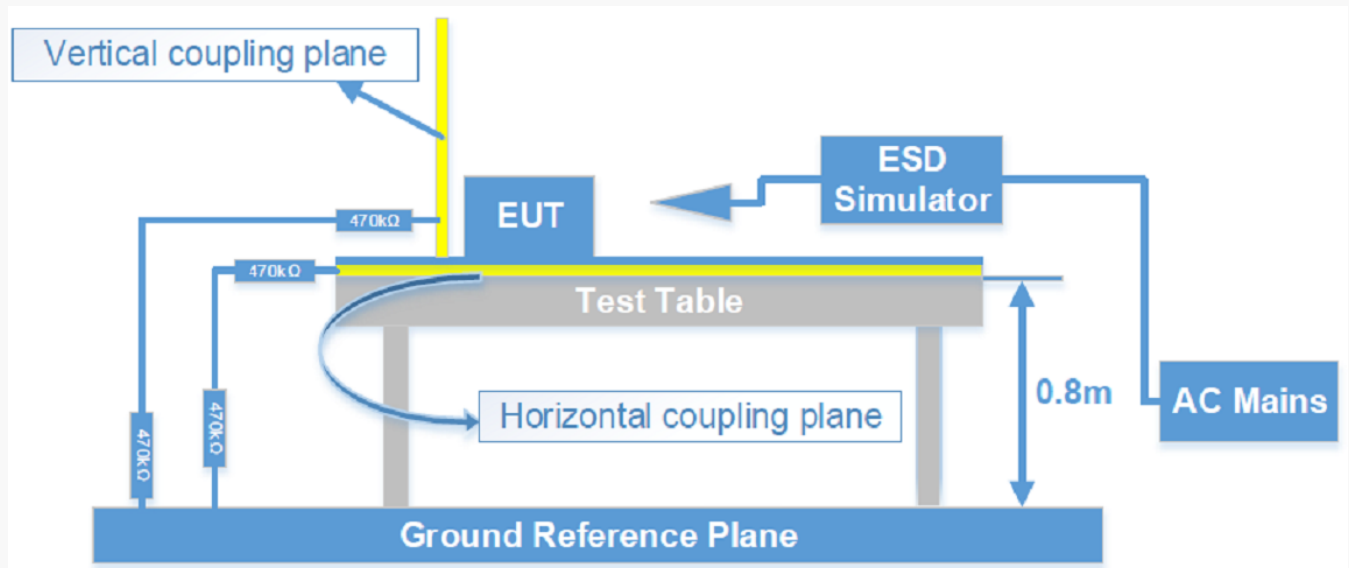
P_{st} and P_{lt} requirements shall not be applied to voltage changes caused by manual switching.

The limits shall not be applied to voltage changes associated with emergency switching or emergency interruptions.

Test Data: See Exhibit A

§9.3 - ELECTROSTATIC DISCHARGE

Test System Setup



EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on an insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 m * 0.8 m metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 kΩ resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5mm thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

Test Standard

ETSI EN 301 489-1 V2.2.3 (2019-11) / EN IEC 61000-4-2:2025▲

Test Level

Level	Test Voltage Contact Discharge (±kV)	Test Voltage Air Discharge (±kV)
1	2	2
2	4	4
3	6	8
4	8	15
X	Special	Special

Performance criterion: B**Test Procedure****Air Discharge:**

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Contact Discharge:

All the procedure shall be same as Section 8.3.1 of EN 61000-4-2, except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1 m from the EUT and with the discharge electrode touching the coupling plane.

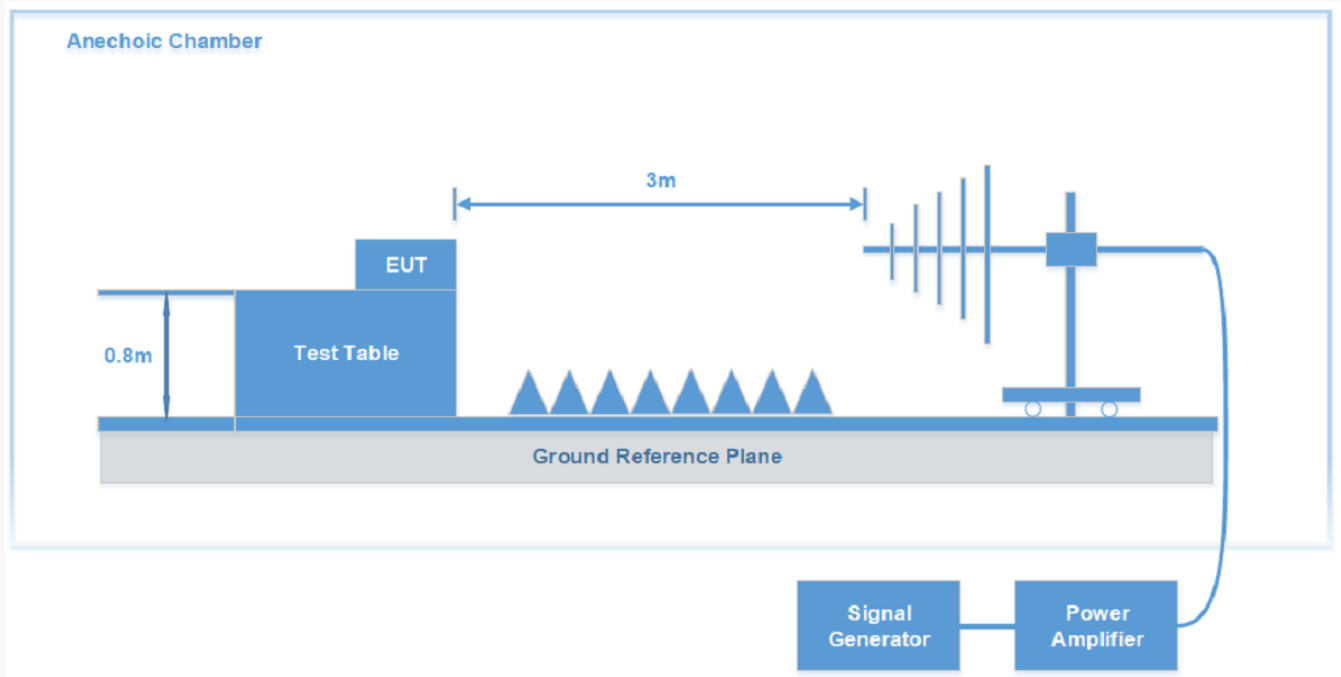
Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5 m * 0.5 m, is placed parallel to, and positioned at a distance of 0.1 m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

Test Data: See Exhibit A

§9.2 - RADIO FREQUENCY ELECTROMAGNETIC FIELD (80 MHZ – 6000 MHZ)

Test System Setup



Test Standard

ETSI EN 301 489-1 V2.2.3 (2019-11) / EN IEC 61000-4-3:2020

Test Level

Level	Field Strength (V/m)
1	1
2	3
3	10
4	30
X	Special

Performance Criterion: A

Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor EUT.

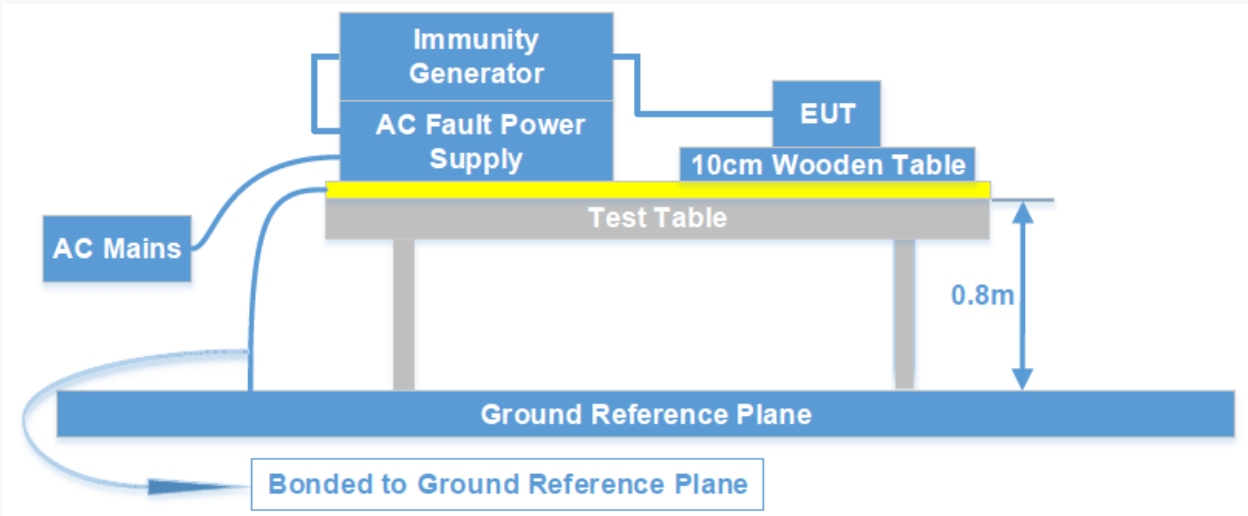
All the scanning conditions are as follows:

Condition of Test	Remarks
Field Strength	3 V/m
Radiated Signal	AM 80%, 1 kHz sine wave
Scanning Frequency	80 - 6000 MHz
Dwell Time	3 Sec.
Frequency Step	1 %

Test Data: See Exhibit A

§9.4 - FAST TRANSIENTS, COMMON MODE

Test System Setup



Test Standard

ETSI EN 301 489-1 V2.2.3 (2019-11) / EN 61000-4-4:2012

Test Level

Open Circuit Output Test Voltage ±10%				
Level	Power ports, earth port (PE)		Signal and control ports	
	Voltage(kV)	Repetition frequency(kHz)	Voltage(kV)	Repetition frequency(kHz)
1	0.5	5 or 100	0.25	5 or 100
2	1		0.5	
3	2		1	
4	4		2	
X	Special	Special	Special	Special

Performance Criterion: B

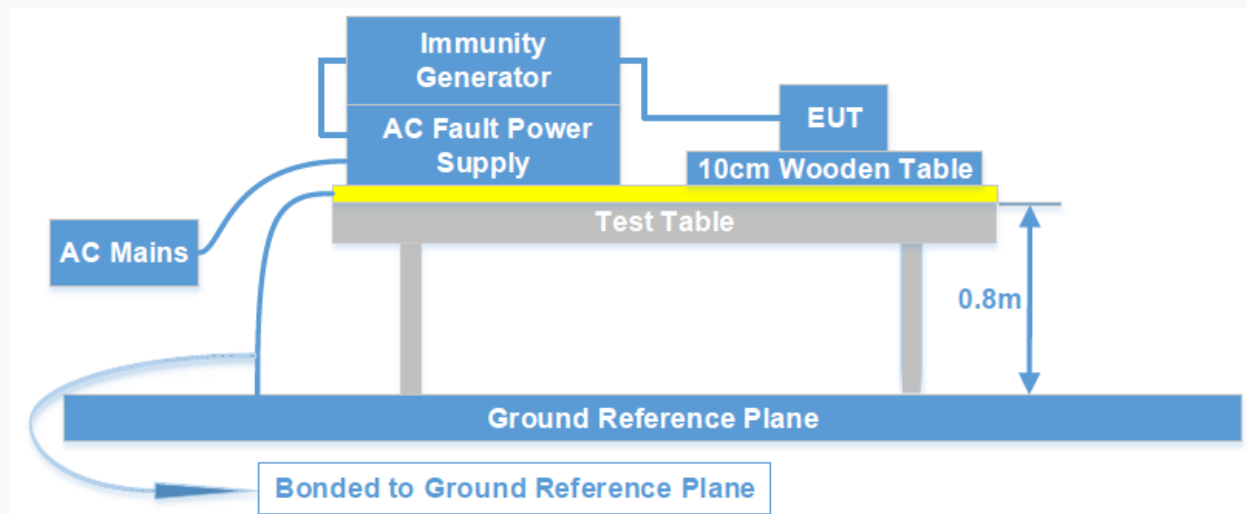
Test Procedure

The EUT was arranged for Power Line Coupling and for I/O Line Coupling through a capacitive clamp, where applicable. (Note: The I/O coupling test using a capacitive clamp is performed on the I/O interface cables that are longer in length than 3 meters.) A metal ground plane 2.4 meters by 2.0 meters was placed between the floor and the table and is connected to the earth by a 2.0 meters ground rod. The ground rod is connected to the test facility’s electrical earth.

Test Data: See Exhibit A

§9.8 - SURGES

Test System Setup



Test Standard

ETSI EN 301 489-1 V2.2.3 (2019-11) / EN 61000-4-5:2014+A1:2017

Test Level and Performance Criterion

Level	Open Circuit Output Test Voltage $\pm 10\%$ (kV)		Performance Criterion	
	Line-to-line	Line-to-ground	AC Mains	Signal Port
1	---	0.5	---	---
2	0.5	1	---	---
3	1	2	B	---
4	2	4	---	---
X	Special	Special	---	---

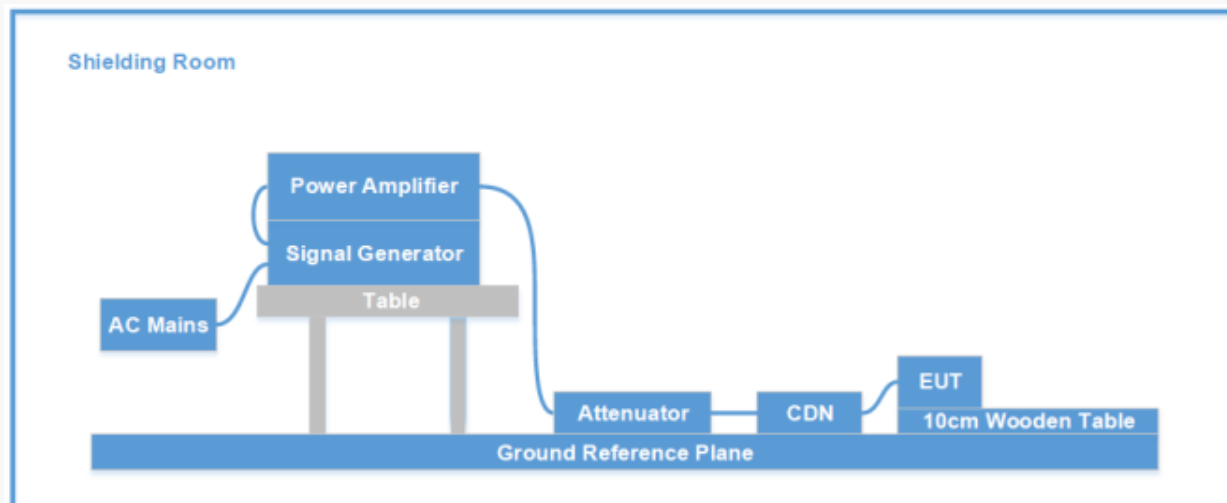
Test Procedure

1. For line to line coupling mode, provide a 1.2/50 μ s voltage surge (at open-circuit condition) and an 8/20 μ s current surge into a short circuit.
2. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
3. Different phase angles are done individually.
4. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

Test Data: See Exhibit A

§9.5 - RF COMMON MODE

Test System Setup



Test Standard

ETSI EN 301 489-1 V2.2.3 (2019-11) / EN IEC 61000-4-6:2023

Test Level

Level	Voltage Level (V)
1	1
2	3
3	10
X	Special

Performance Criterion: A

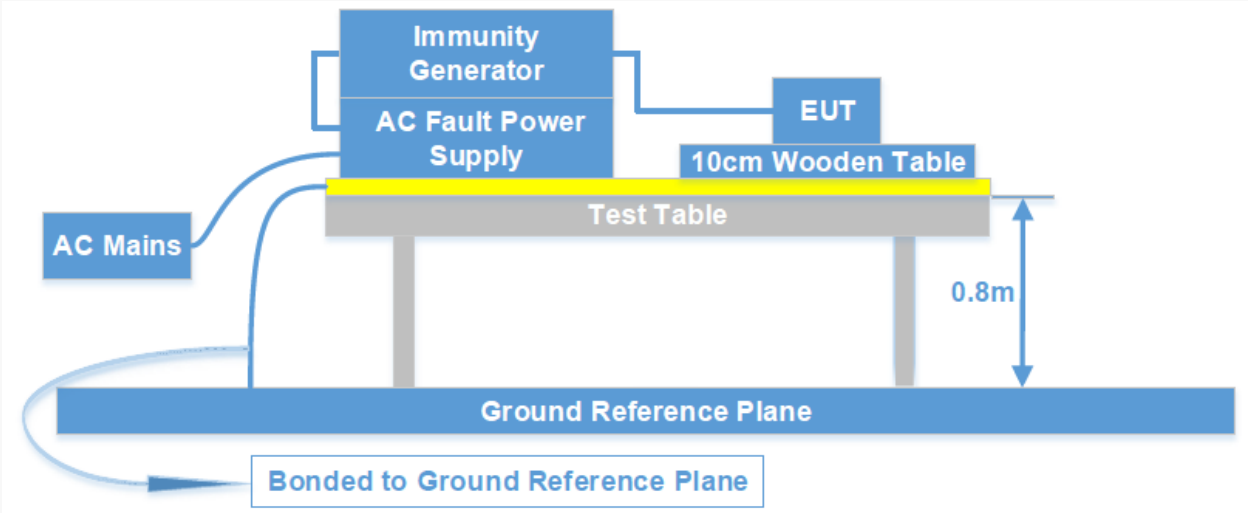
Test Procedure

1. Let the EUT work in test mode and test it.
2. The EUT are placed on an insulating support 0.1 m high above a ground reference plane. A CDN (coupling and decoupling device) is placed on the ground plane about 0.3 m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
3. The disturbance signal described below is injected to EUT through CDN.
4. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
5. The frequency range is swept from 150 kHz to 80 MHz using 3 V signal level, and with the disturbance signal 80 % amplitude modulated with a 1 kHz sine wave.
6. The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1 % of the preceding frequency value.
7. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

Test Data: See Exhibit A

§9.7 - VOLTAGE DIPS AND INTERRUPTIONS

Test System Setup



Test Standard

ETSI EN 301 489-1 V2.2.3 (2019-11) / EN IEC 61000-4-11:2020+AC:2022-10

Test Level and Performance Criterion

Test Level	Cycle	Performance Criterion
Voltage dips: 0 % residual voltage	0.5	B
Voltage dips: 0 % residual voltage	1	B
Voltage dips: 70 % residual voltage	25	C
Voltage interruptions: 0 % residual voltage	250	C

Test Procedure

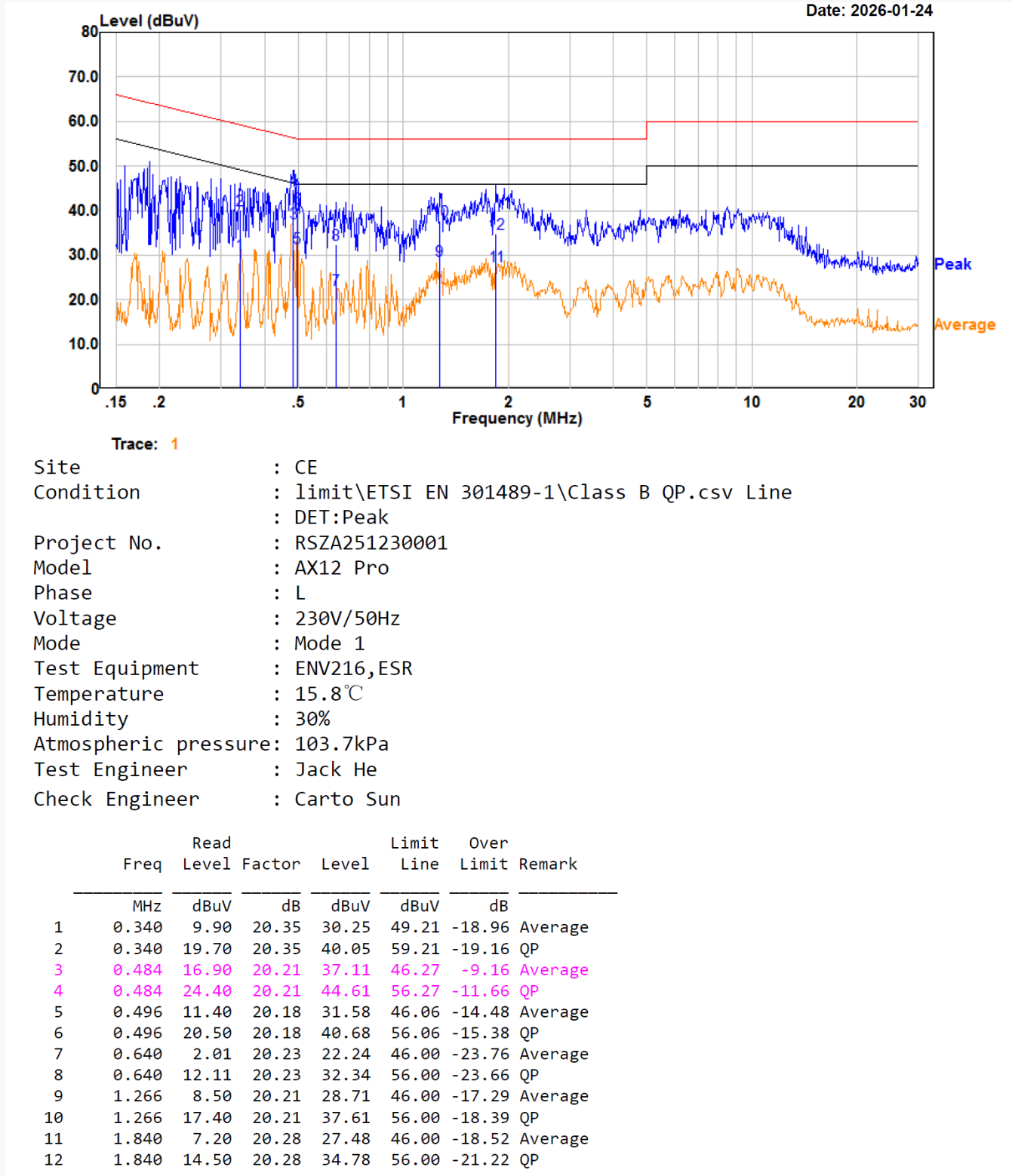
1. The interruption is introduced at selected phase angles with specified duration.
2. Record any degradation of performance.

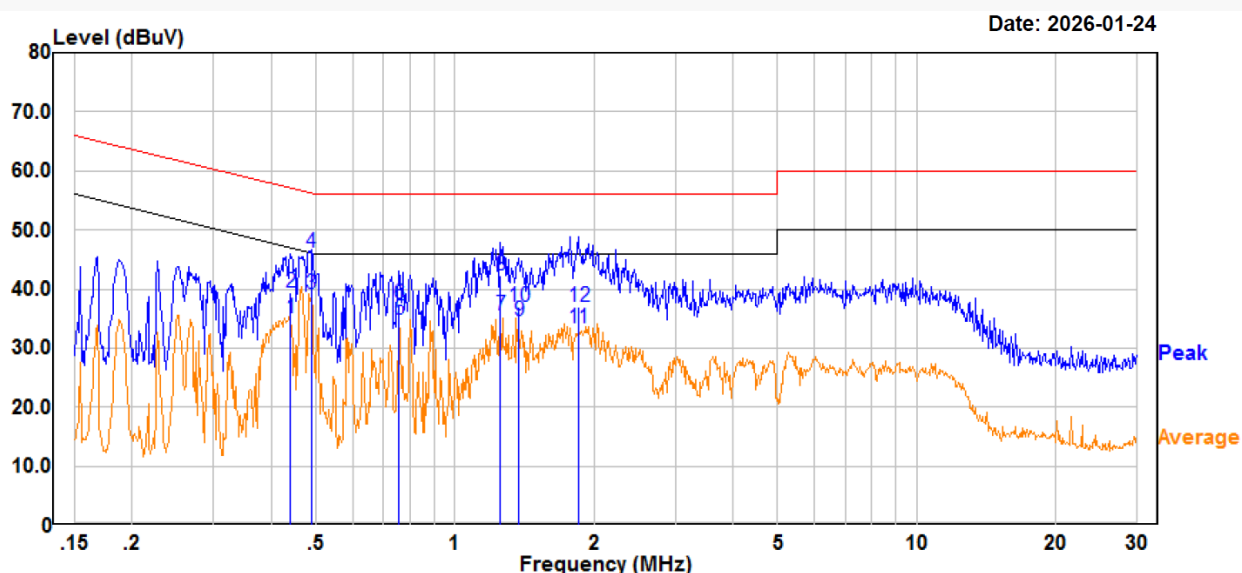
Test Data: See Exhibit A

EXHIBIT A - TEST DATA

AC MAINS POWER INPUT/OUTPUT PORTS

Test mode 1:



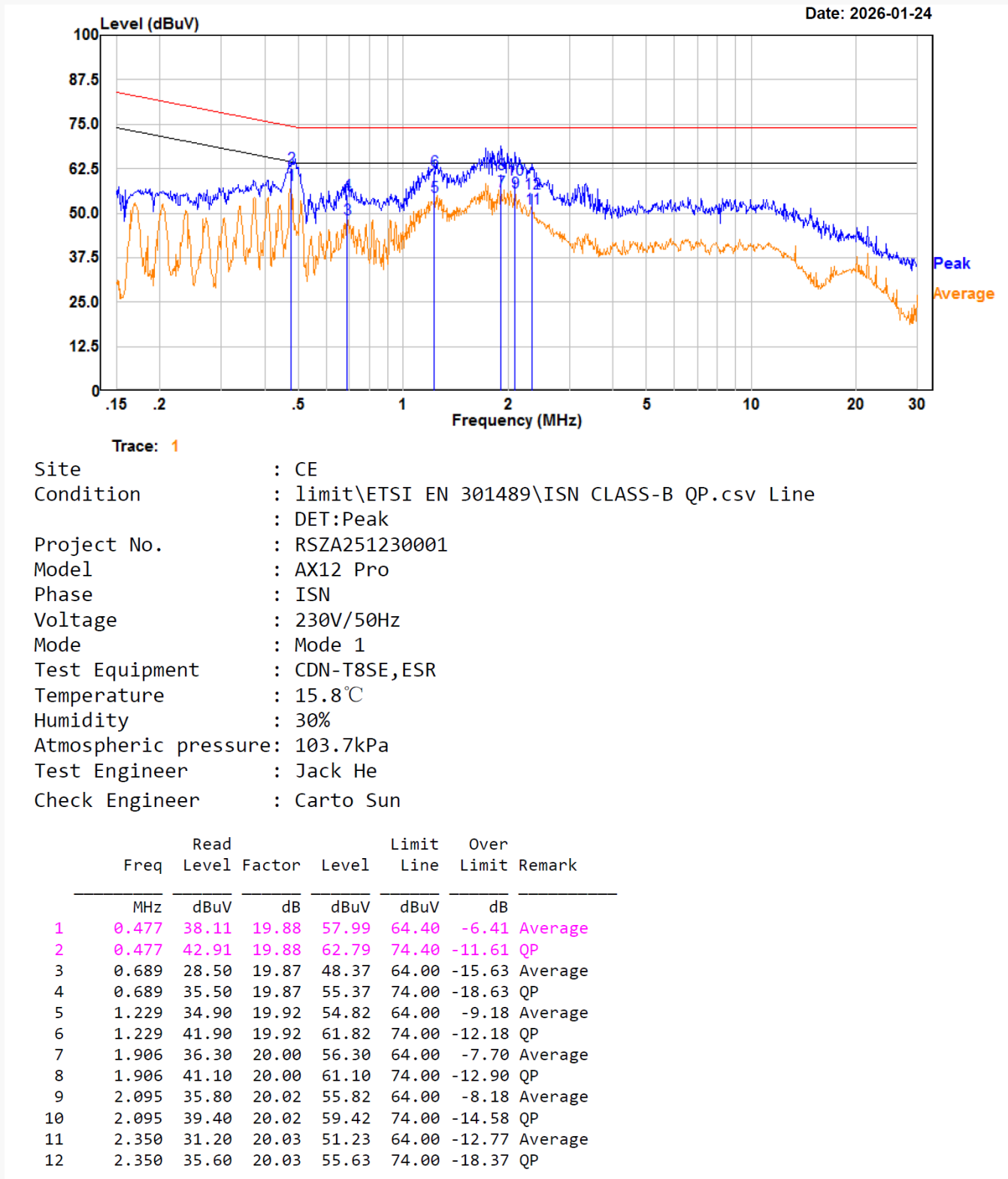


Trace: 1

Site : CE
 Condition : limit\ETSI EN 301489-1\Class B QP.csv Neutral
 : DET:Peak
 Project No. : RSZA251230001
 Model : AX12 Pro
 Phase : N
 Voltage : 230V/50Hz
 Mode : Mode 1
 Test Equipment : ENV216, ESR
 Temperature : 15.8°C
 Humidity : 30%
 Atmospheric pressure: 103.7kPa
 Test Engineer : Jack He
 Check Engineer : Carto Sun

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.440	14.80	20.31	35.11	47.06	-11.95	Average
2	0.440	19.20	20.31	39.51	57.06	-17.55	QP
3	0.489	19.00	20.22	39.22	46.19	-6.97	Average
4	0.489	26.00	20.22	46.22	56.19	-9.97	QP
5	0.758	14.60	20.23	34.83	46.00	-11.17	Average
6	0.758	17.30	20.23	37.53	56.00	-18.47	QP
7	1.254	15.40	20.21	35.61	46.00	-10.39	Average
8	1.254	22.00	20.21	42.21	56.00	-13.79	QP
9	1.378	14.40	20.22	34.62	46.00	-11.38	Average
10	1.378	16.70	20.22	36.92	56.00	-19.08	QP
11	1.850	13.10	20.27	33.37	46.00	-12.63	Average
12	1.850	16.60	20.27	36.87	56.00	-19.13	QP

WIRED NETWORK PORTS



ENCLOSURE PORT

Test mode 1

Below 1 GHz:

Common Information

Project No:RSZA251230001

EUT Model:AX12 Pro

Test Mode:Mode 1

Standard:ETSI EN 301 489-1

Test Equipment:ESCI, JB3, 310N

Receiver Setting:RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto

Temperature:15.9℃

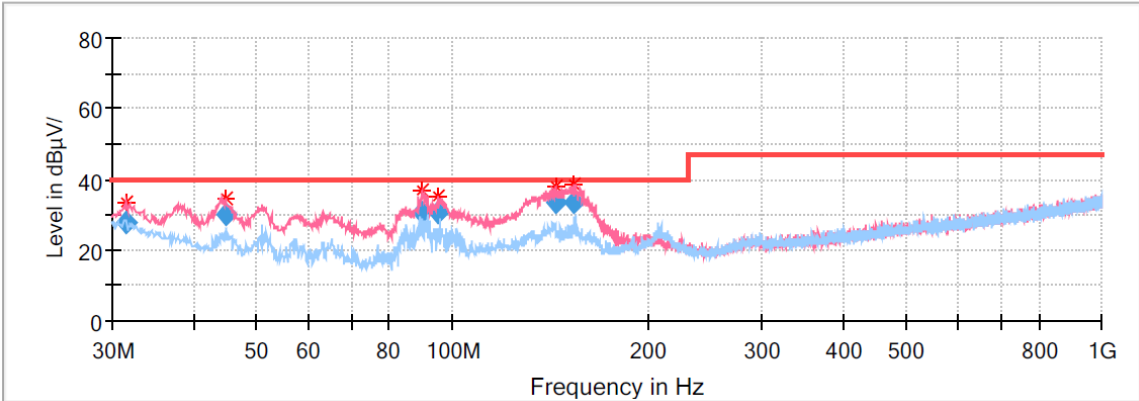
Humidity:37%

Barometric Pressure:102.8kPa

Test Engineer:Scarf Yang

Check Engineer:Carto Sun

Test Date:2026/1/10



Final Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.576250	27.59	40.00	12.41	V	-5.9
44.913750	30.11	40.00	9.89	V	-13.9
89.897500	30.59	40.00	9.41	V	-16.9
94.990000	30.59	40.00	9.41	V	-15.5
144.460000	33.38	40.00	6.62	V	-11.5
154.281250	33.42	40.00	6.58	V	-11.9

Above 1 GHz:

Common Information

Project No.: RSZA251230001

EUT Model: AX12 Pro

Test Mode: Mode 1

Standard: ETSI EN 301 489-1

Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 16.2°C

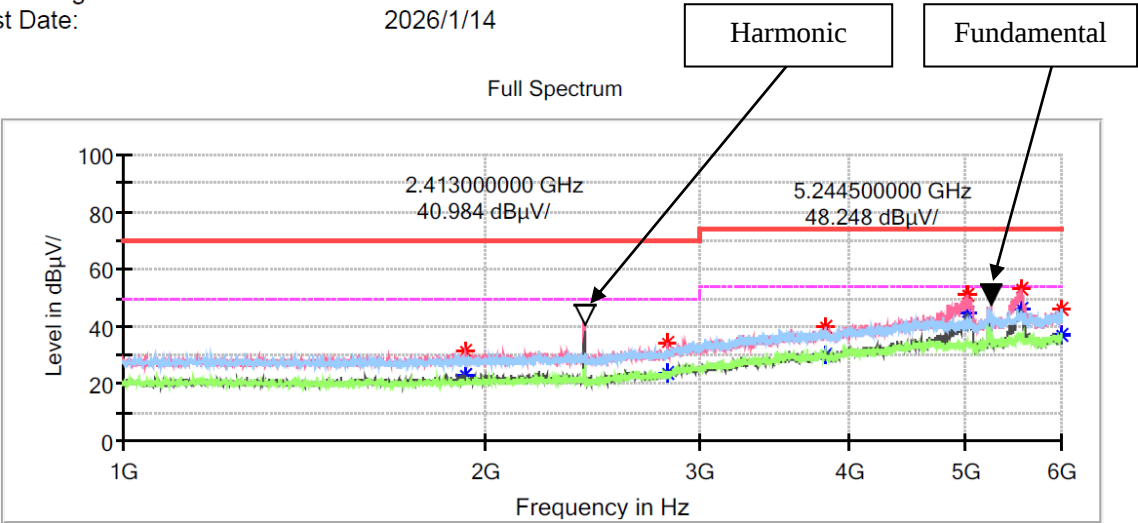
Humidity: 43%

Atmospheric Pressure: 102.2kPa

Test Engineer: Destine Hu

Check Engineer: Carto Sun

Test Date: 2026/1/14



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1923.000000	---	23.07	50.00	26.93	V	-10.5
1923.000000	31.26	---	70.00	38.74	V	-10.5
2822.500000	---	23.95	50.00	26.05	V	-8.6
2822.500000	34.03	---	70.00	35.97	V	-8.6
3819.000000	---	30.17	54.00	23.83	H	-5.4
3819.000000	39.52	---	74.00	34.48	H	-5.4
5006.000000	50.86	---	74.00	23.14	V	-2.9
5006.000000	---	44.68	54.00	9.32	V	-2.9
5550.000000	---	46.20	54.00	7.80	V	-1.6
5550.000000	53.09	---	74.00	20.91	V	-1.6
5998.000000	---	37.36	54.00	16.64	H	-0.6
5998.000000	45.95	---	74.00	28.05	H	-0.6

ELECTROSTATIC DISCHARGES

Test mode 1-2:

Project No.	RSZA251230001	Temperature (°C)	16.6°C
Applicant	SHENZHEN TENDA TECHNOLOGY CO., LTD	Humidity (%RH)	35%RH
Product Name	AX3000 Dual Band Gigabit Wi-Fi 6 Router	ATM Pressure (kPa)	103.3kPa
Tested Model	AX12 Pro	Test Voltage	230V/50Hz
Test Standard	ETSI EN 301 489-1 / -17	Performance Criterion	☐ A; ☒ B; ☐ C; ☐ D
Operation Mode	Mode 1-2		

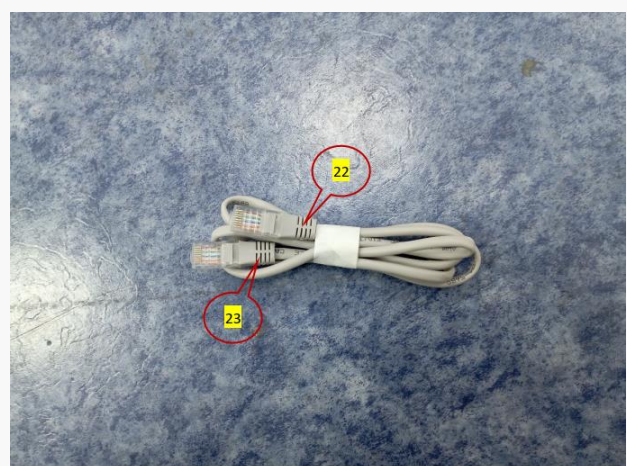
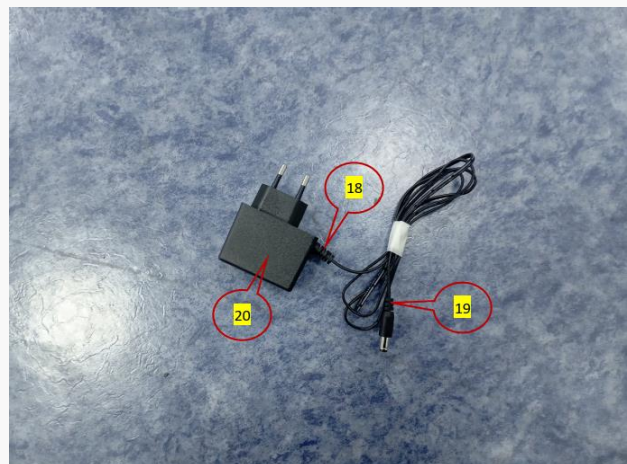
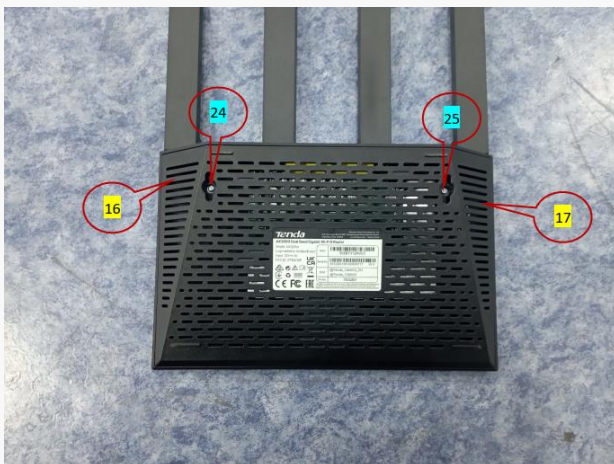
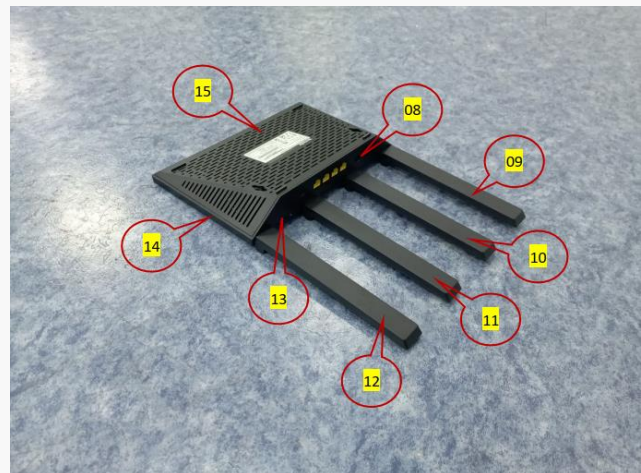
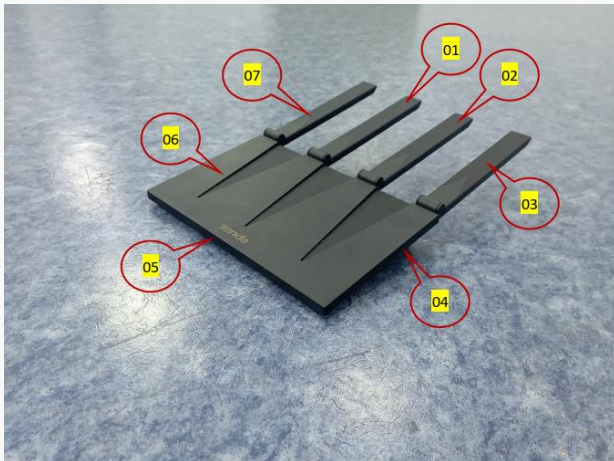
Test Data

Discharge Type	Test Ports Location	Test Levels				
		± 2 kV	± 4 kV	± 6 kV	± 8 kV	± 15 kV
Air Discharge	01-23	A	A	/	A	/
Contact Discharge	24-25	/	A	/	/	/
Contact HCP	Front Side	/	A	/	/	/
	Back Side	/	A	/	/	/
	Left Side	/	A	/	/	/
	Right Side	/	A	/	/	/
Contact VCP	Front Side	/	A	/	/	/
	Back Side	/	A	/	/	/
	Left Side	/	A	/	/	/
	Right Side	/	A	/	/	/
Remark:						

- Performance Criterion:**
- A: Normal performance within limits specified by the manufacturer, requestor or purchaser.
 - B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
 - C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention.
 - D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

Test Result: ☒ Pass ☐ Fail	Test Engineer: Leah Li	Test Date: 2026/01/28
	Check Engineer: Carlo Sun	Check Date: 2026/01/28

Test point as follows:



RADIO FREQUENCY ELECTROMAGNETIC FIELD

Test mode 1-2:

Project No.	RSZA251230001	Temperature (°C)	16.6°C
Applicant	SHENZHEN TENDA TECHNOLOGY CO., LTD	Humidity (%RH)	35%RH
Product Name	AX3000 Dual Band Gigabit Wi-Fi 6 Router	ATM Pressure (kPa)	103.3kPa
Tested Model	AX12 Pro	Test Voltage	230V/50Hz
Test Standard	ETSI EN 301 489-1 / -17	Performance Criterion	☒ A; ☐ B; ☐ C; ☐ D
Operation Mode	Mode 1-2		

Test Data

Freq. Range (MHz)	Front Side (<u> 3 </u> V/m)		Rear Side (<u> 3 </u> V/m)		Left Side (<u> 3 </u> V/m)		Right Side (<u> 3 </u> V/m)	
	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal
80~1000	A	A	A	A	A	A	A	A
1000~6000	A	A	A	A	A	A	A	A

Remark:**Performance Criterion:**

- A: Normal performance within limits specified by the manufacturer, requestor or purchaser.
 B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
 C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention.
 D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

Test Result: ☒ Pass ☐ Fail	Test Engineer: Leah Li	Test Date: 2026/01/28
	Check Engineer: Carto Sun	Check Date: 2026/01/28

Note:

1. "A" stands for, during the test, the equipment shall: continue to operate as intended; not unintentionally transmit; not unintentionally change its operating state; not unintentionally change critical stored data.
2. "Wi-Fi link" is to monitor mobile phone to connect EUT and monitor the connection state.
3. "Wi-Fi standby" is to monitor the EUT in standby mode to unintentional transmission does not occur.

ELECTRICAL FAST TRANSIENTS/BURST

Test mode 1-2:

Project No.	RSZA251230001	Temperature (°C)	16.6°C
Applicant	SHENZHEN TENDA TECHNOLOGY CO., LTD	Humidity (%RH)	35%RH
Product Name	AX3000 Dual Band Gigabit Wi-Fi 6 Router	ATM Pressure (kPa)	103.3kPa
Tested Model	AX12 Pro	Test Voltage	230V/50Hz
Test Standard	ETSI EN 301 489-1 / -17	Performance Criterion	☐ A; ☒ B; ☐ C; ☐ D
Operation Mode	Mode 1-2		

Test Data

Repetition Frequency: ☒ 5 kHz, ☐ 100 kHz									
Test Ports		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
AC mains power ports	L	/	/	A	A	/	/	/	/
	N	/	/	A	A	/	/	/	/
	L + N	/	/	A	A	/	/	/	/
Signal ports		A	A	/	/	/	/	/	/
Remark:									

Performance Criterion:

- A: Normal performance within limits specified by the manufacturer, requestor or purchaser.
- B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
- C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention.
- D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

Test Result: ☒ Pass ☐ Fail	Test Engineer: Leah Li	Test Date:2026/01/28
	Check Engineer: Carto Sun	Check Date:2026/01/28

SURGES

Test mode 1-2:

For Power Port

Project No.	RSZA251230001	Temperature (°C)	16.6°C
Applicant	SHENZHEN TENDA TECHNOLOGY CO., LTD	Humidity (%RH)	35%RH
Product Name	AX3000 Dual Band Gigabit Wi-Fi 6 Router	ATM Pressure (kPa)	103.3kPa
Tested Model	AX12 Pro	Test Voltage	230V/50Hz
Test Standard	ETSI EN 301 489-1 / -17	Performance Criterion	☐ A; ☒ B; ☐ C; ☐ D
Operation Mode	Mode 1-2		

Test Data

Combination wave: ☒ 1.2/50µs (8/20µs); ☐ 10/700µs (5/320µs)									
Test Ports		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
AC mains power ports	L - N	A	A	A	A	/	/	/	/
Remark:									

- Performance Criterion:**
- A: Normal performance within limits specified by the manufacturer, requestor or purchaser.
 - B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
 - C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention.
 - D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

Test Result: ☒ Pass ☐ Fail	Test Engineer: Leah Li	Test Date:2026/01/28
	Check Engineer: Carto Sun	Check Date:2026/01/28

For Signal Port ☆

Project No.:	RSZA251230001
EUT Number:	
Operating Mode:	Mode 1-2
Test Standard:	ETSI EN 301 489-1/-17

Test Details

Surges

Environmental Conditions	26.4℃,54%RH , 100.7kPa
Test Date	2026-2-7
Test Mode	Mode 1-2
Test Engineer	Jason. Li

Port	Level	Voltage	Poll	Path	Criterion
AC Main	1	0.5kV	±	/	/
	2	1kV	±	/	/
	3	2kV	±	/	/
	4	4kV	±	/	/
Signal Port (RJ45)	1	0.5kV	±	/	/
	2	1kV	+	Line- Line	B
	2	1kV	-	Line- Line	A
	3	2kV	±	/	/
	4	4kV	±	/	/

Performance criterion: B

Note: The result of +1kV is B, because some of the package data was lost under testing. The communication self-recovered after finished testing.

Result: Pass

Checked By :

Carto Sun

CONTINUOUS INDUCED RF DISTURBANCES

Test mode 1-2:

Project No.	RSZA251230001	Temperature (°C)	16.6°C
Applicant	SHENZHEN TENDA TECHNOLOGY CO., LTD	Humidity (%RH)	35%RH
Product Name	AX3000 Dual Band Gigabit Wi-Fi 6 Router	ATM Pressure (kPa)	103.3kPa
Tested Model	AX12 Pro	Test Voltage	230V/50Hz
Test Standard	ETSI EN 301 489-1 / -17	Performance Criterion	☒ A; ☐ B; ☐ C; ☐ D
Operation Mode	Mode 1-2		

Test Data

Test Ports	Test Equipment	Frequency Range (MHz)	Voltage Level (e.m.f.) U ₀			
			1 V	3 V	3 to 1 V	10 V
Mains power input ports	CDN M225E	0.15-80	/	A	/	/
Signal ports	CDN T8E	0.15-80	/	A	/	/
Remark:						

Performance Criterion:

- A: Normal performance within limits specified by the manufacturer, requestor or purchaser.
- B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
- C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention.
- D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

Test Result: ☒ Pass ☐ Fail	Test Engineer: Leah Li	Test Date:2026/01/28
	Check Engineer: Carto Sun	Check Date:2026/01/28

VOLTAGE DIPS AND INTERRUPTIONS

Test mode 1-2:

Project No.	RSZA251230001	Temperature (°C)	16.6°C
Applicant	SHENZHEN TENDA TECHNOLOGY CO., LTD	Humidity (%RH)	35%RH
Product Name	AX3000 Dual Band Gigabit Wi-Fi 6 Router	ATM Pressure (kPa)	103.3kPa
Tested Model	AX12 Pro	Test Voltage	230V/50Hz
Test Standard	ETSI EN 301 489-1 / -17		
Operation Mode	Mode 1-2		

Test Data

Test Level	Number of Cycles/Periods	Phase Angle	Performance Criterion	Performance Level
Voltage dip: 0% residual voltage	0.5	0/90/180/270	B	A
Voltage dip: 0% residual voltage	1	0/90/180/270	B	A
Voltage dip: 70% residual voltage	25	0/90/180/270	C	B
Voltage interruptions: 0% residual voltage	250	0/90/180/270	C	B
Remark: "B" stands for the equipment stops working during the test. After the test, this phenomenon will be self-recoverable and operate as intended after recovering.				

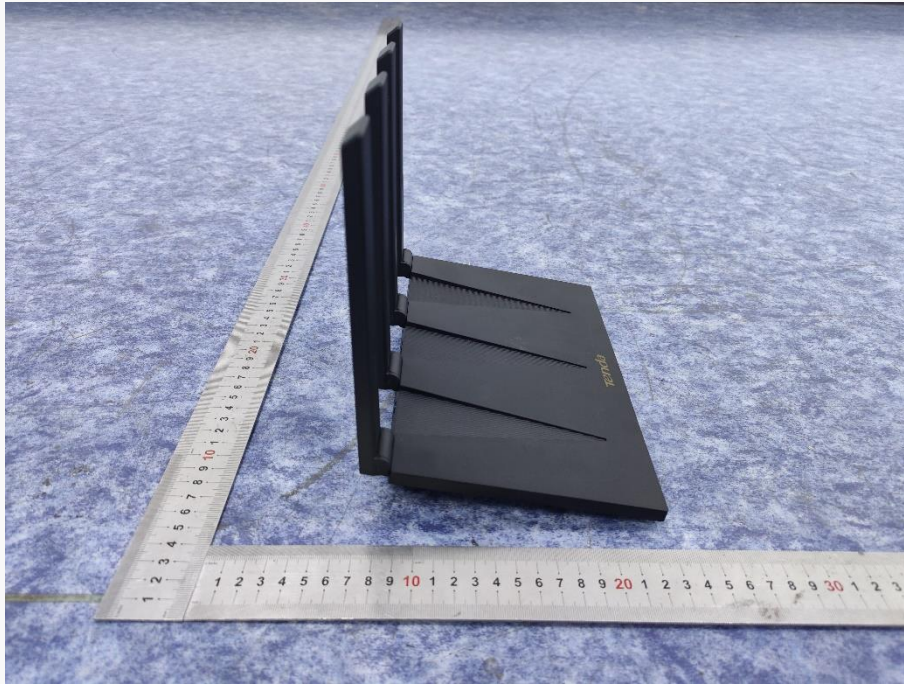
Performance criterion:

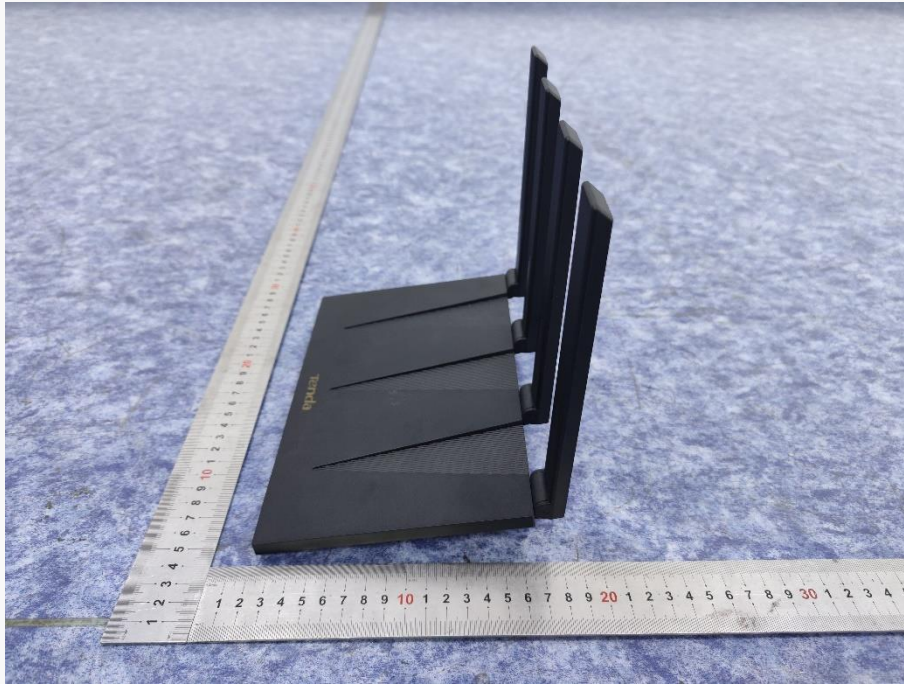
- A: Normal performance within limits specified by the manufacturer, requestor or purchaser.
B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention.
D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

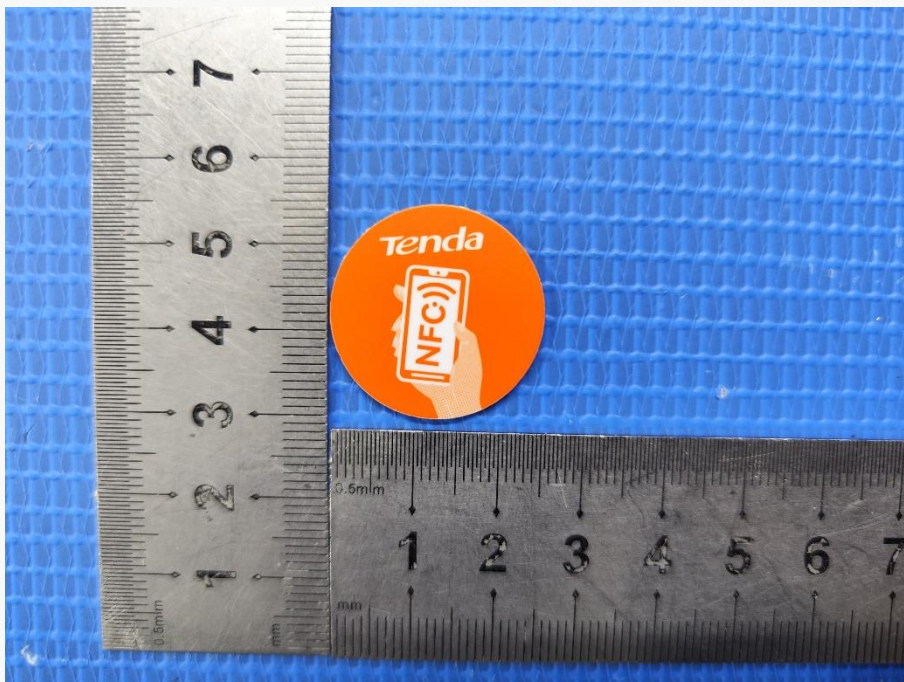
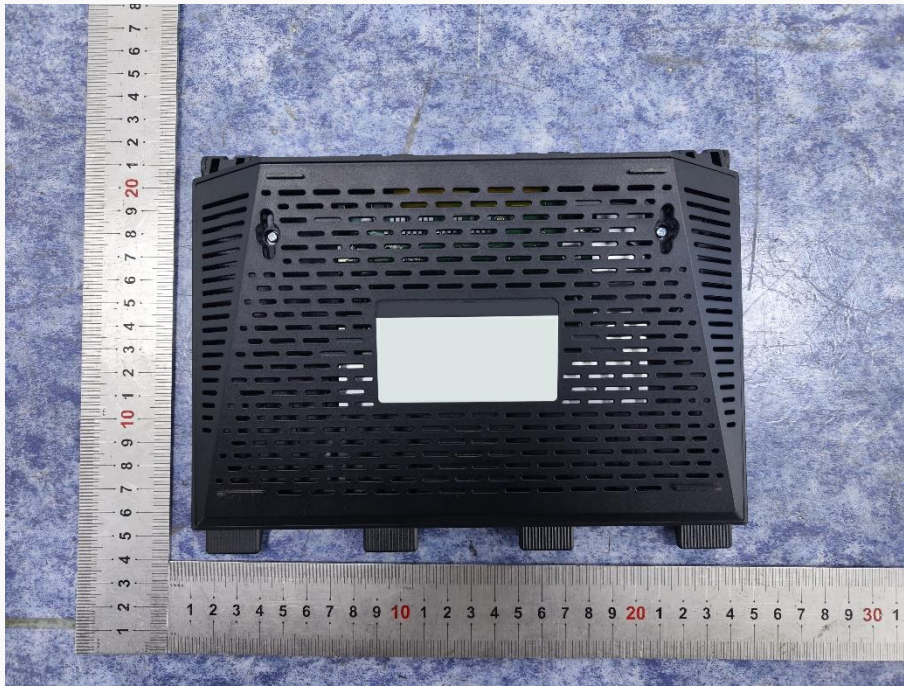
Test Result: ☒ Pass ☐ Fail	Test Engineer: Leah Li	Test Date: 2026/01/28
	Check Engineer: Carlo Sun	Check Date: 2026/01/28

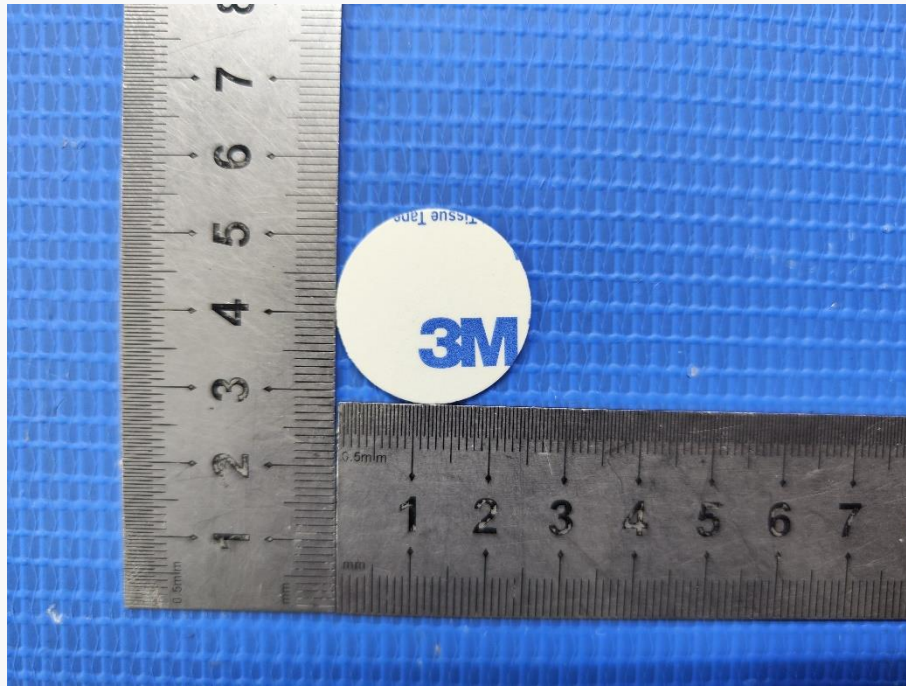
EXHIBIT B - EUT PHOTOGRAPHS



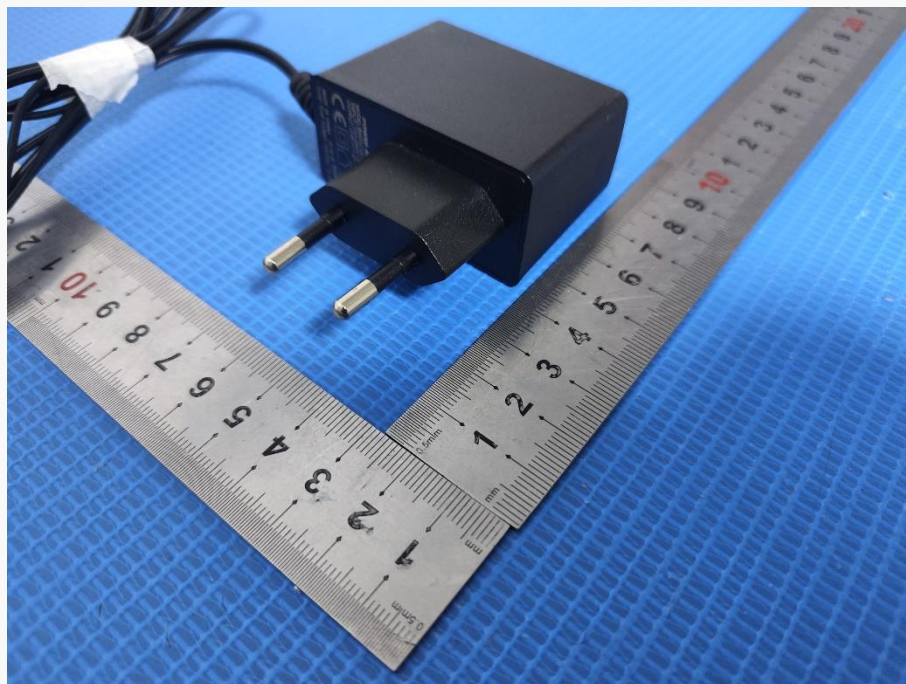


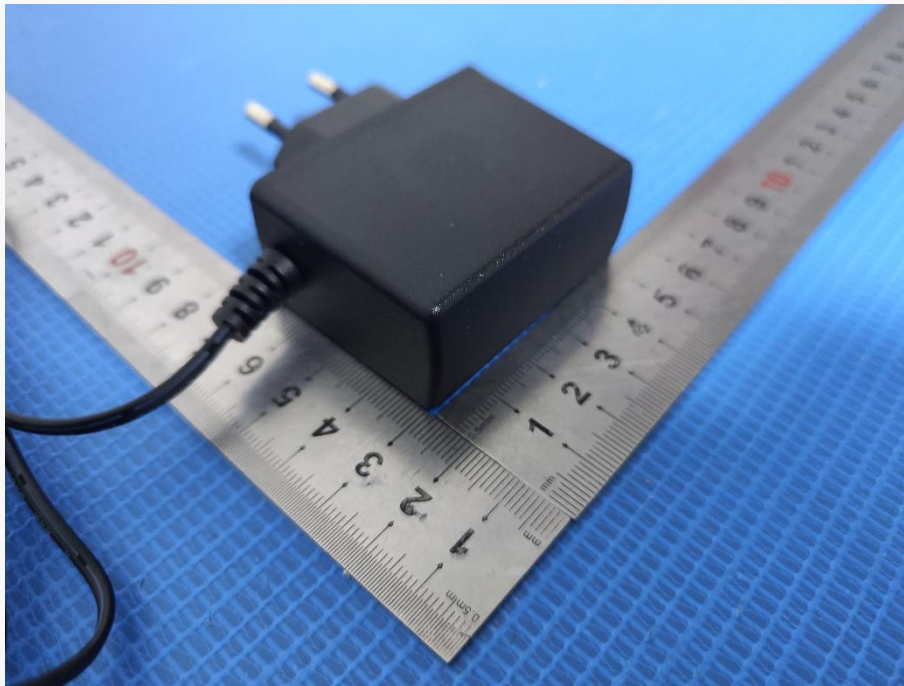


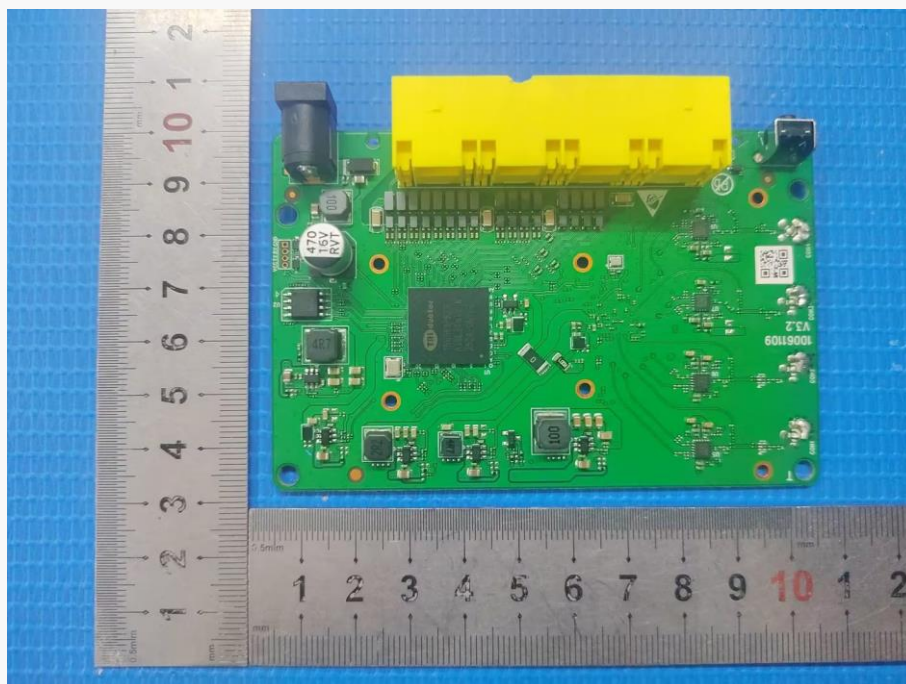
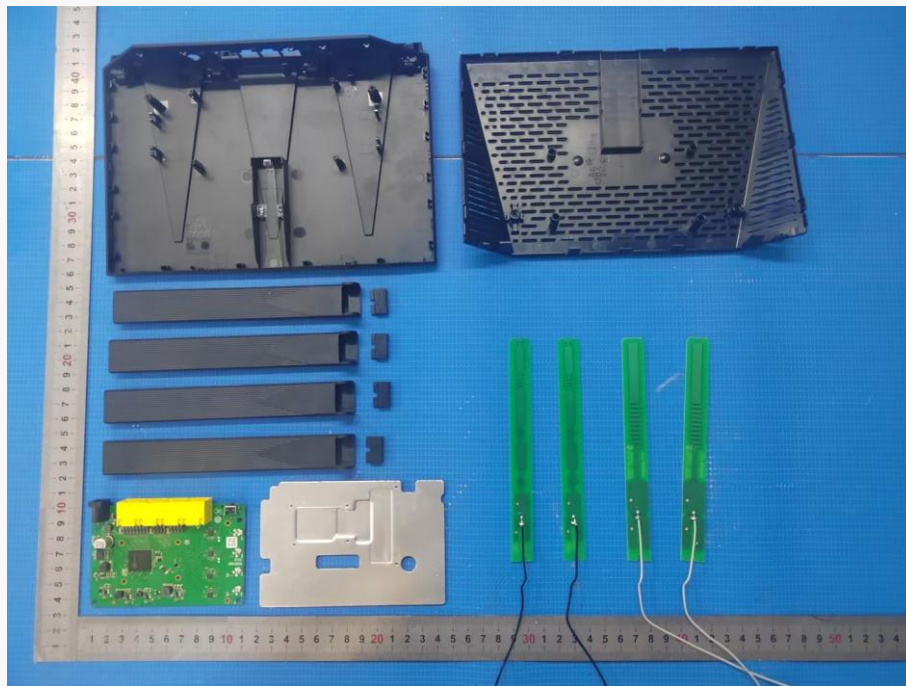


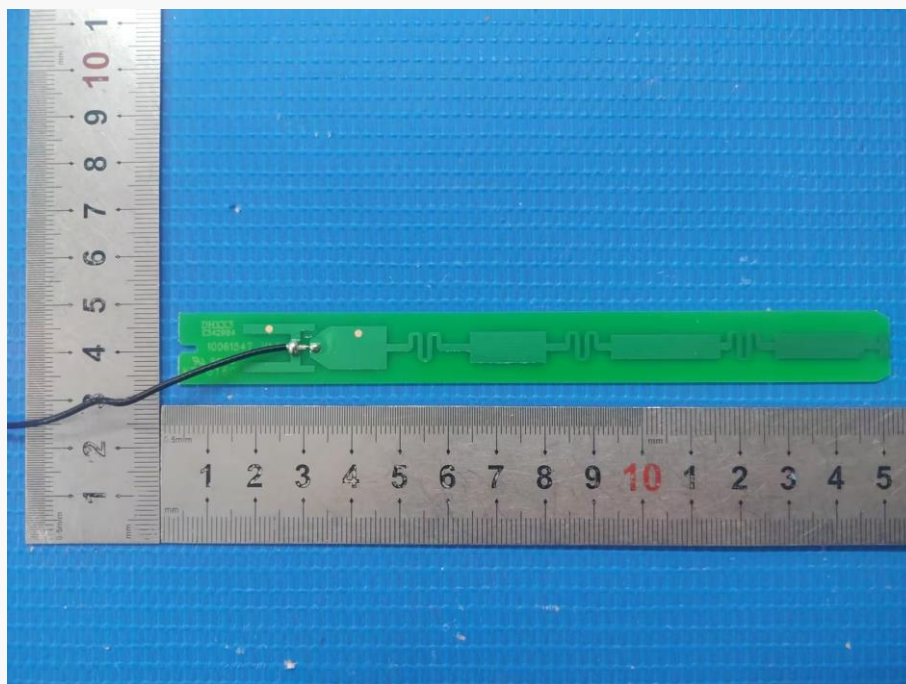
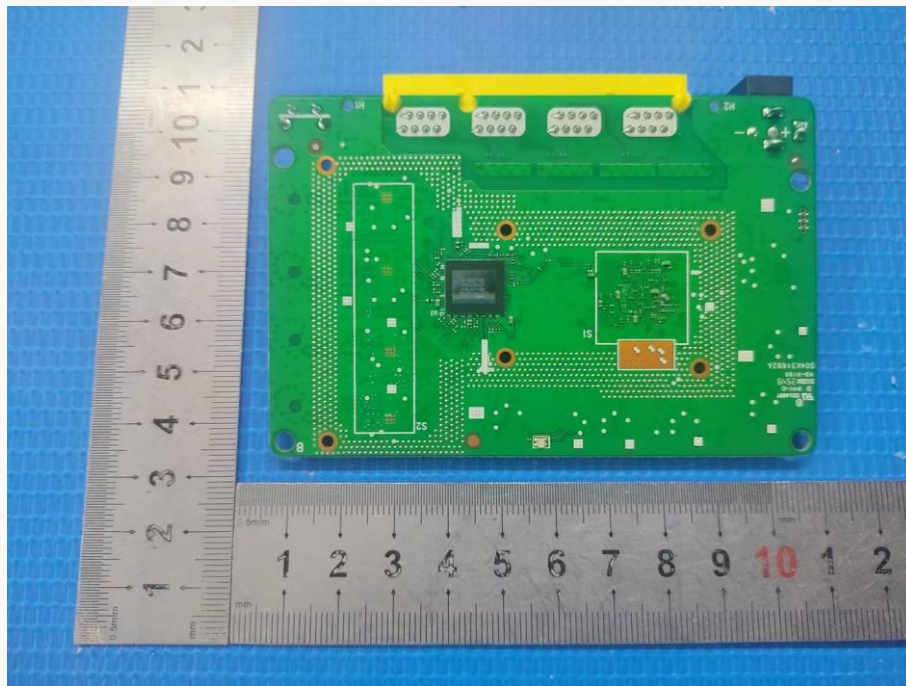


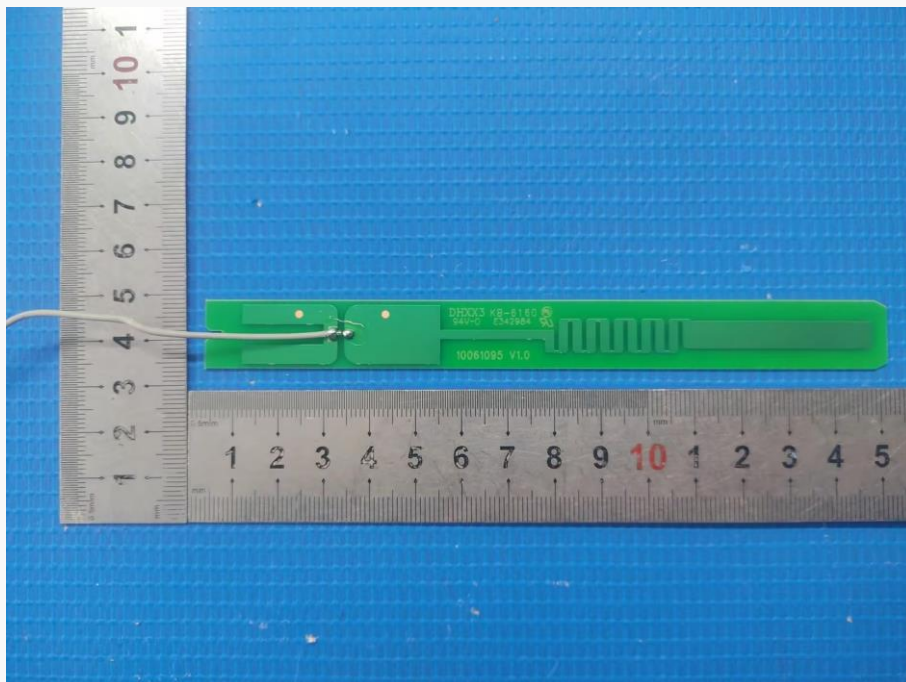
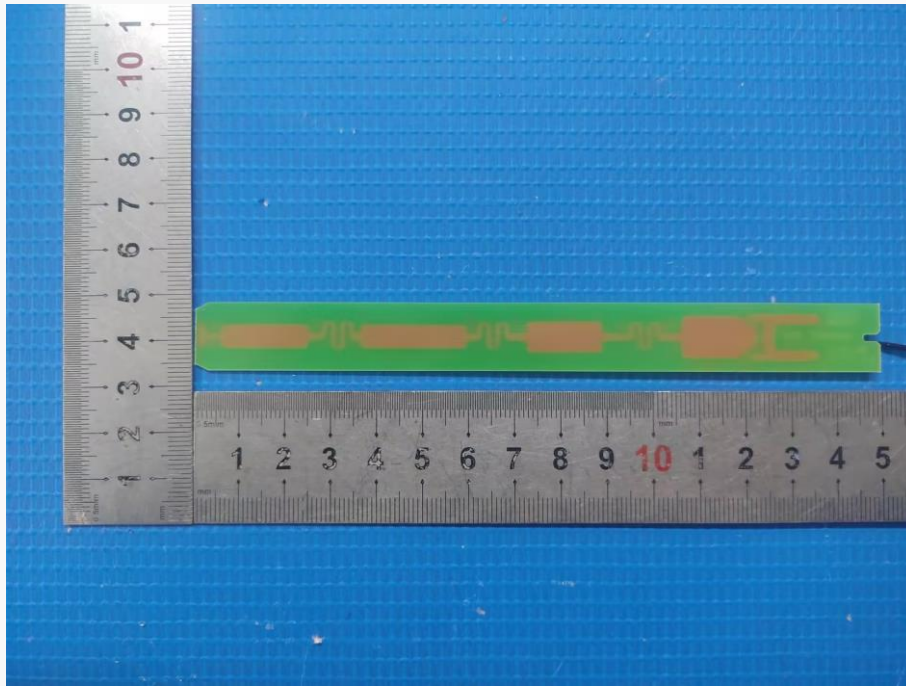
adapter

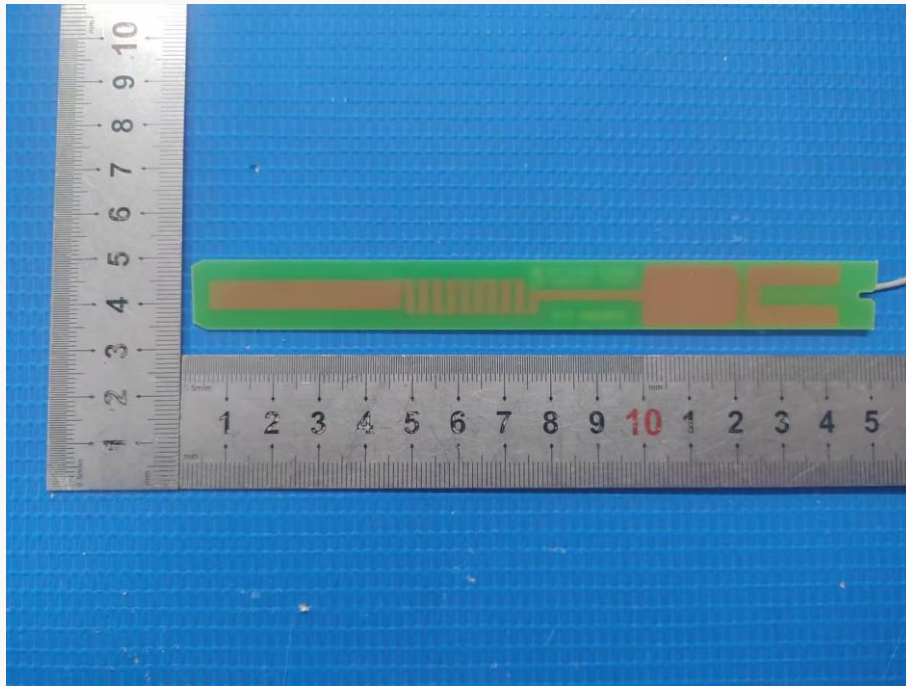


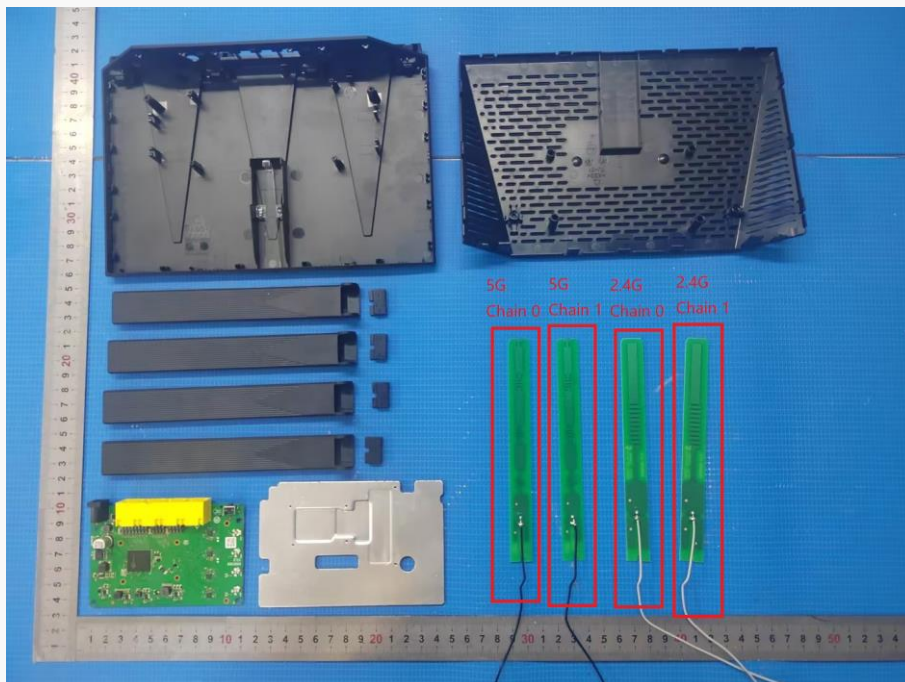












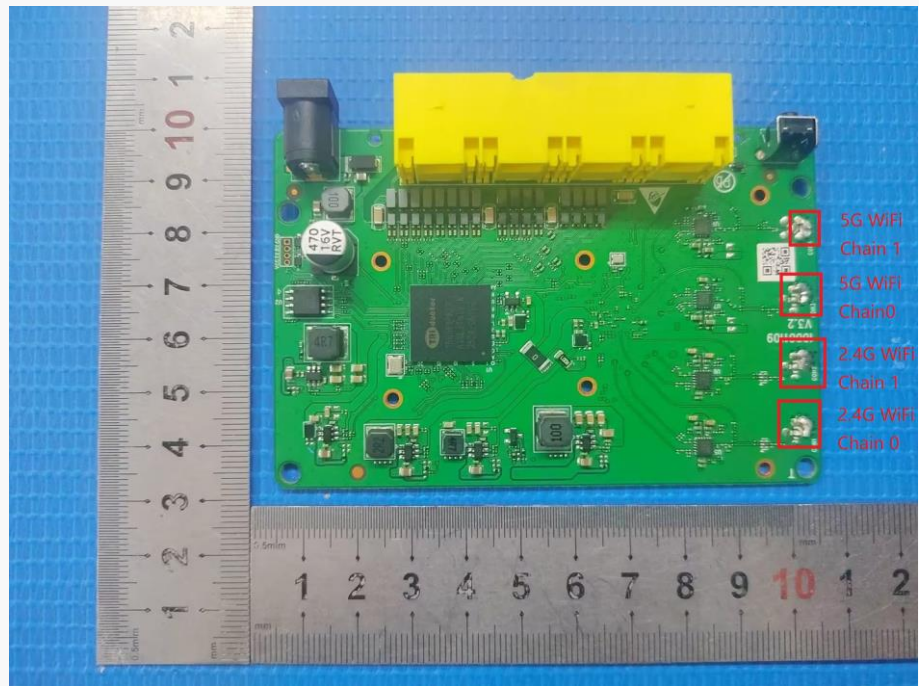
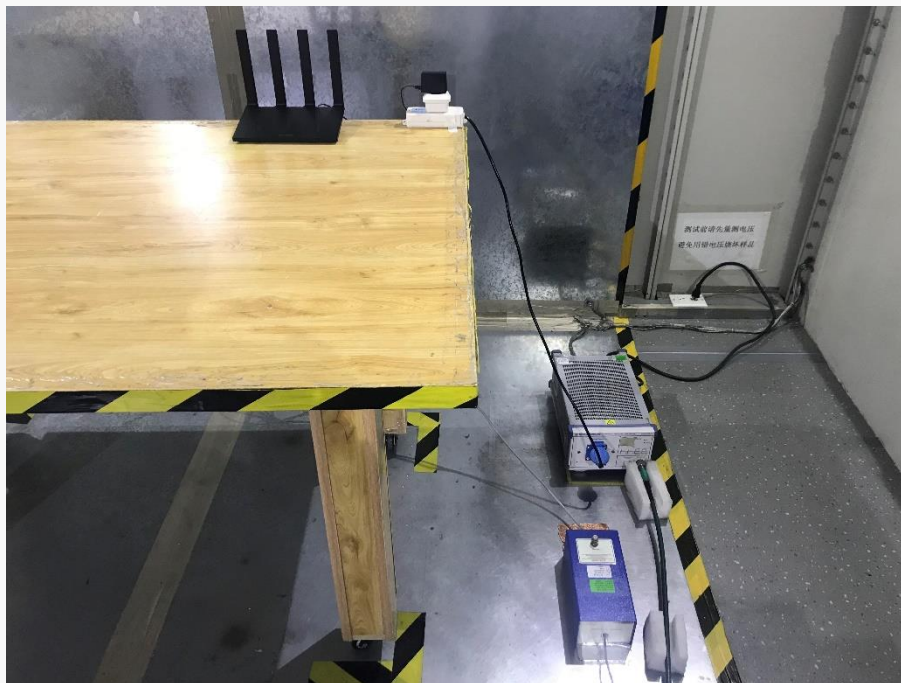


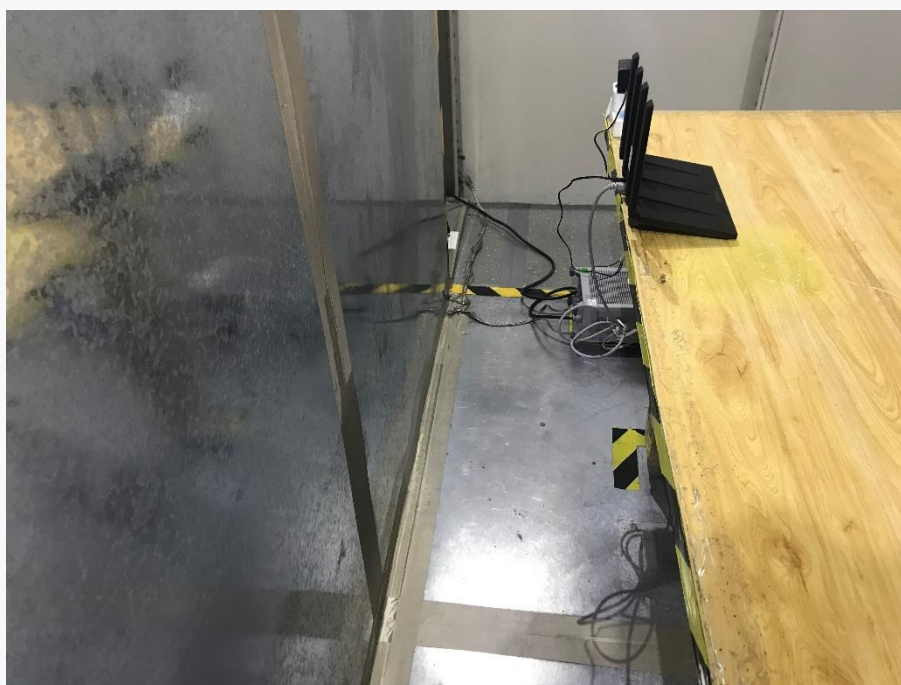
EXHIBIT C - TEST SETUP PHOTOGRAPHS

Test mode 1-2:

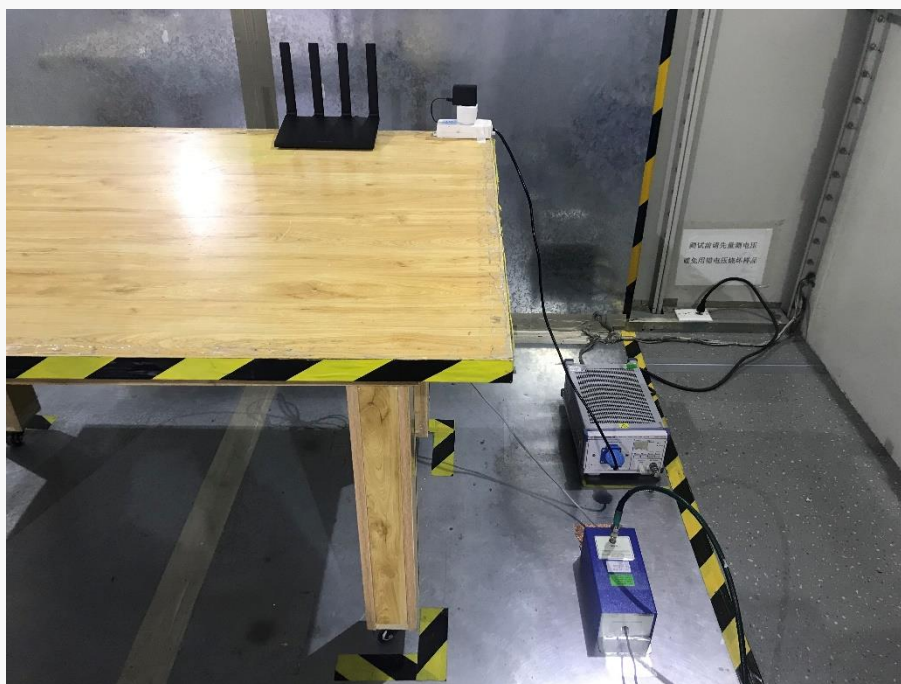
CE - Front View for Power Port



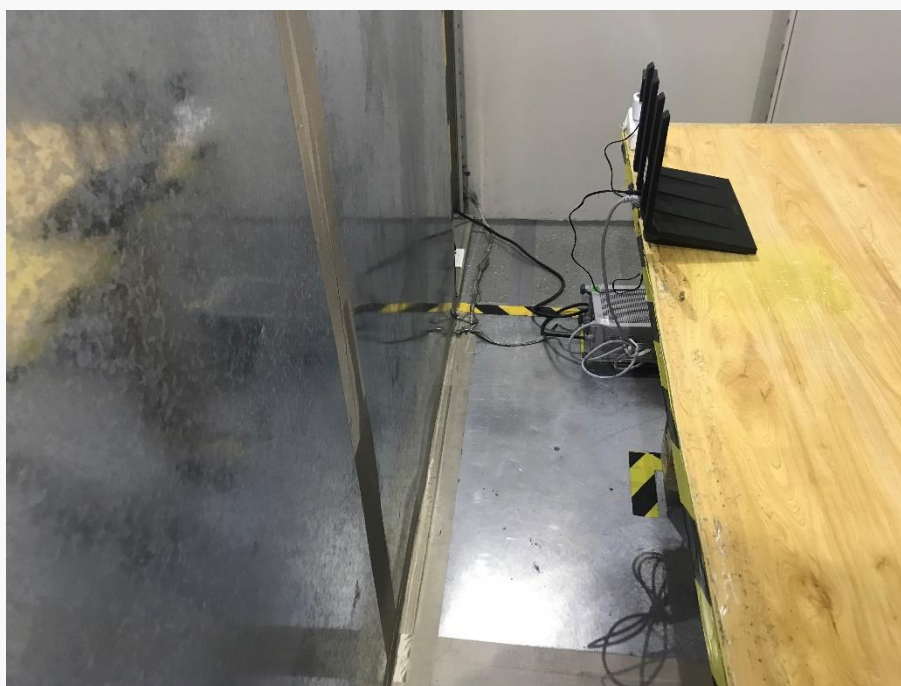
CE - Left View for Power Port



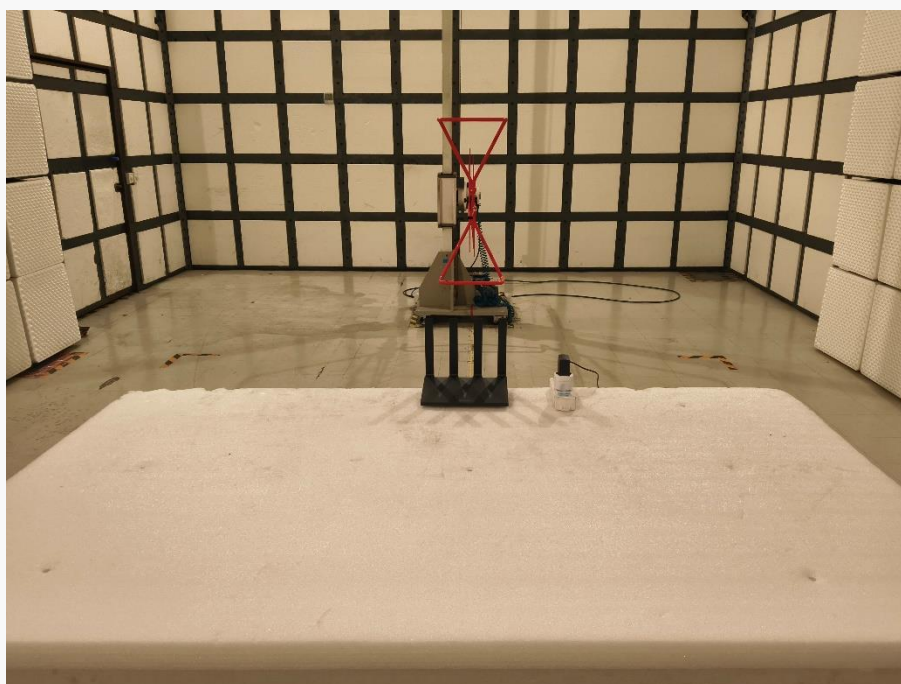
CE - Front View for Signal Port



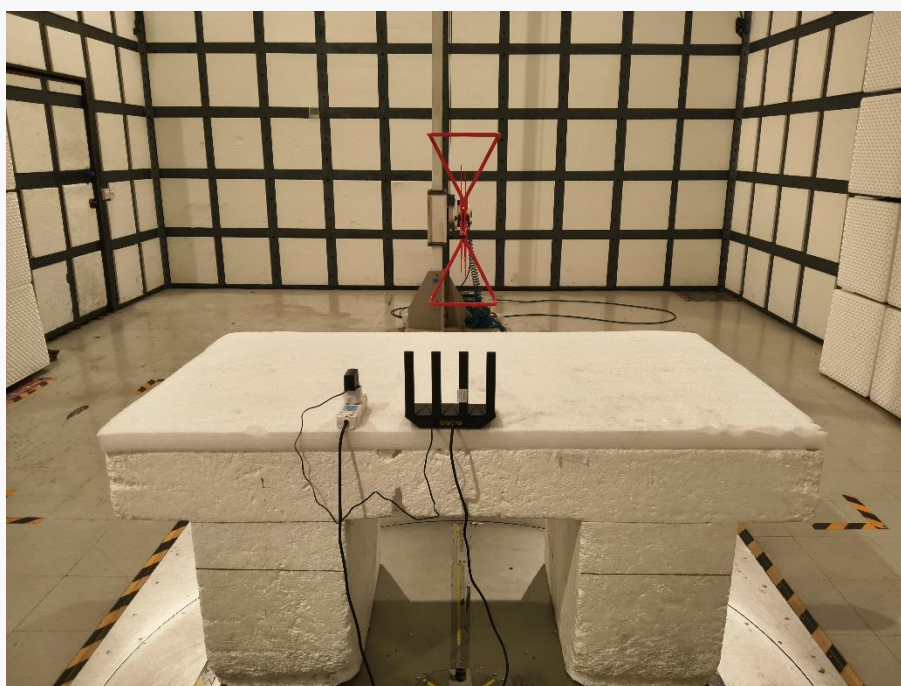
CE - Left View for Signal Port



RE - Front View (Below 1 GHz)



RE - Rear View (Below 1 GHz)



RE - Side View (Above 1 GHz)

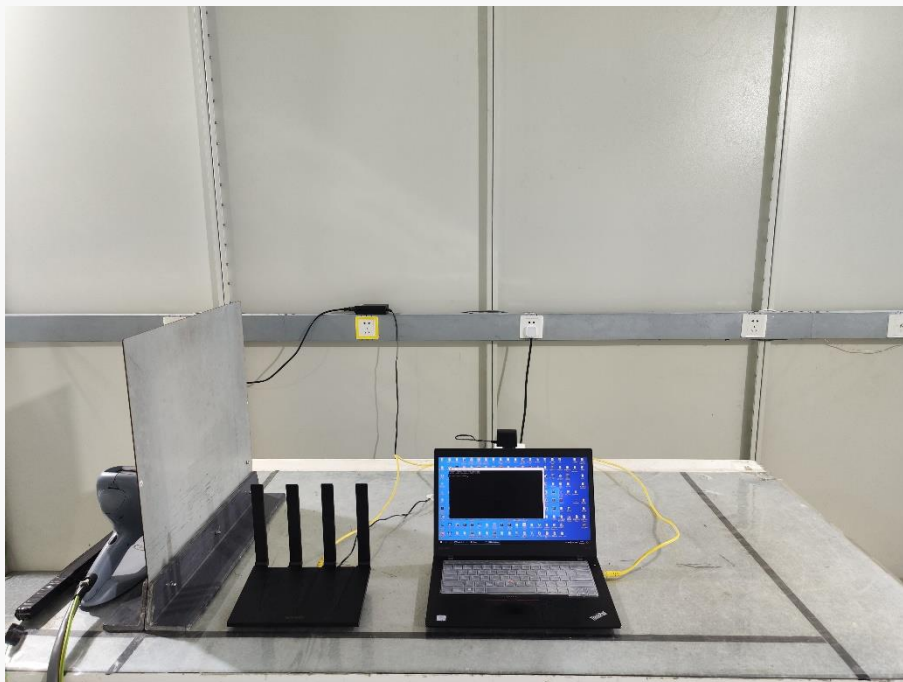


Flicker

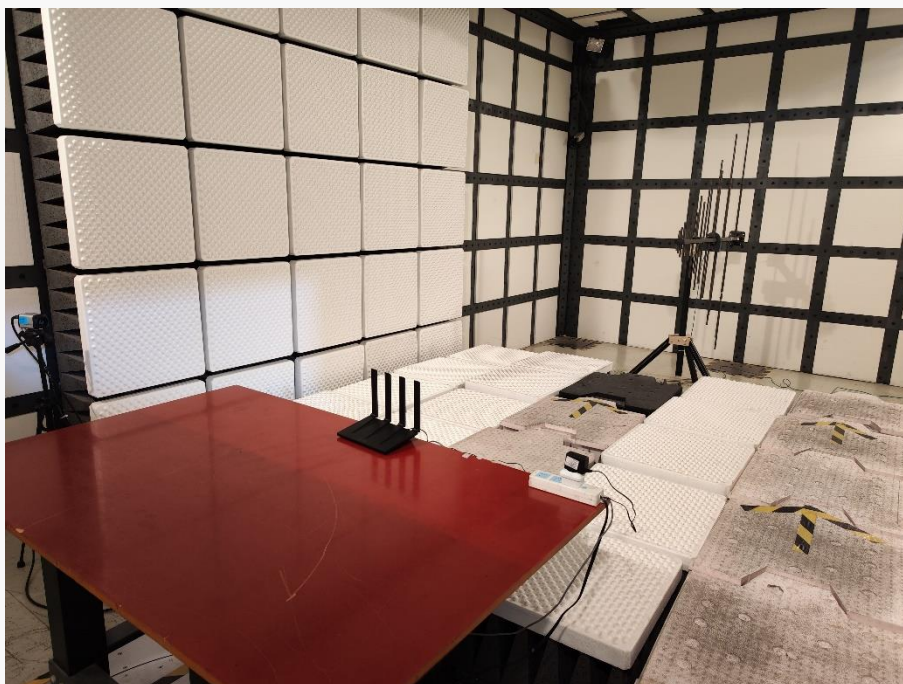


Test mode 1-2:

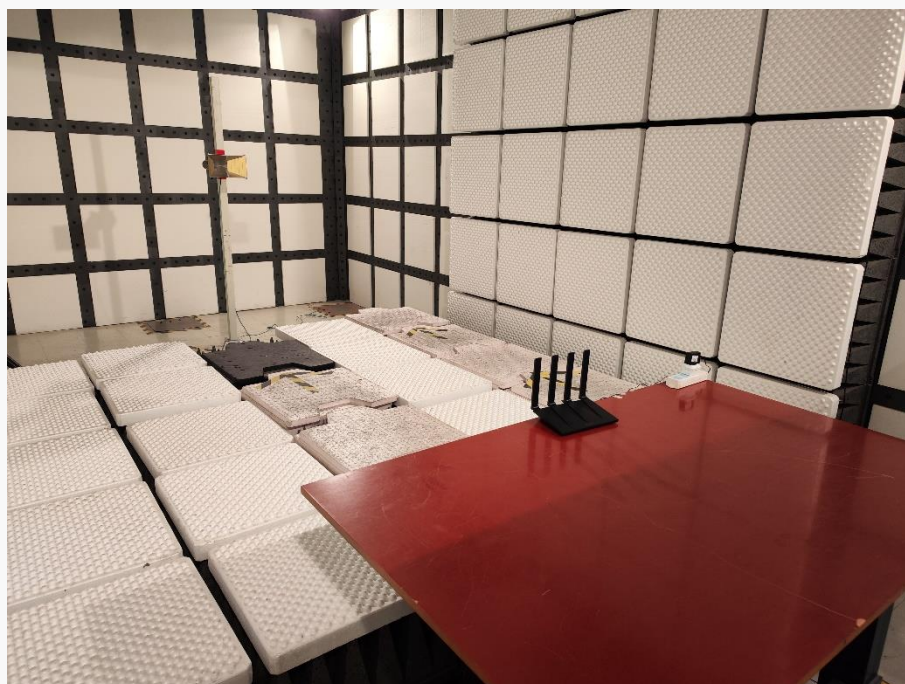
ESD



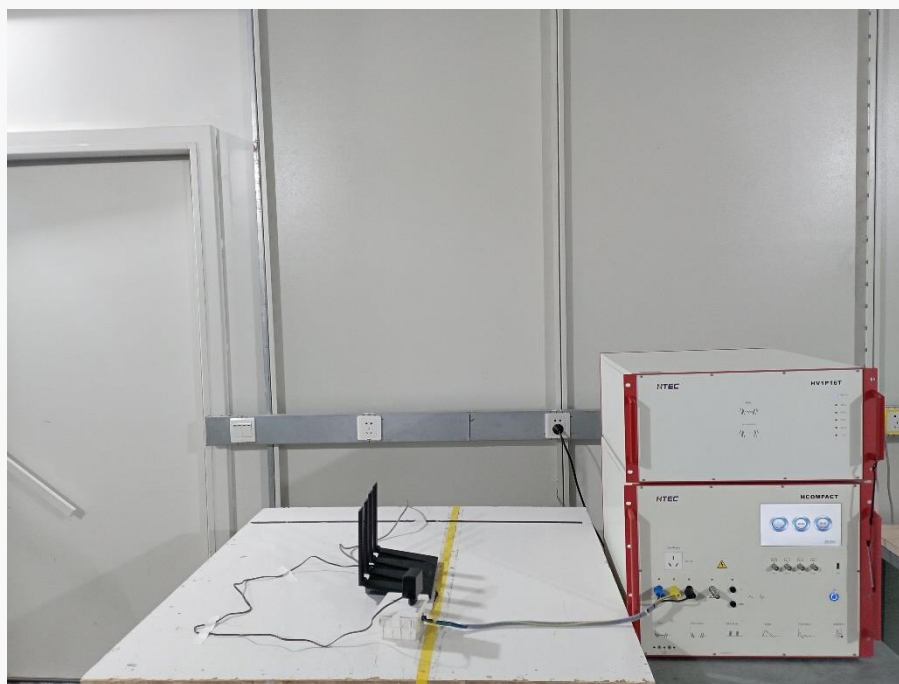
RS (Below 1 GHz)



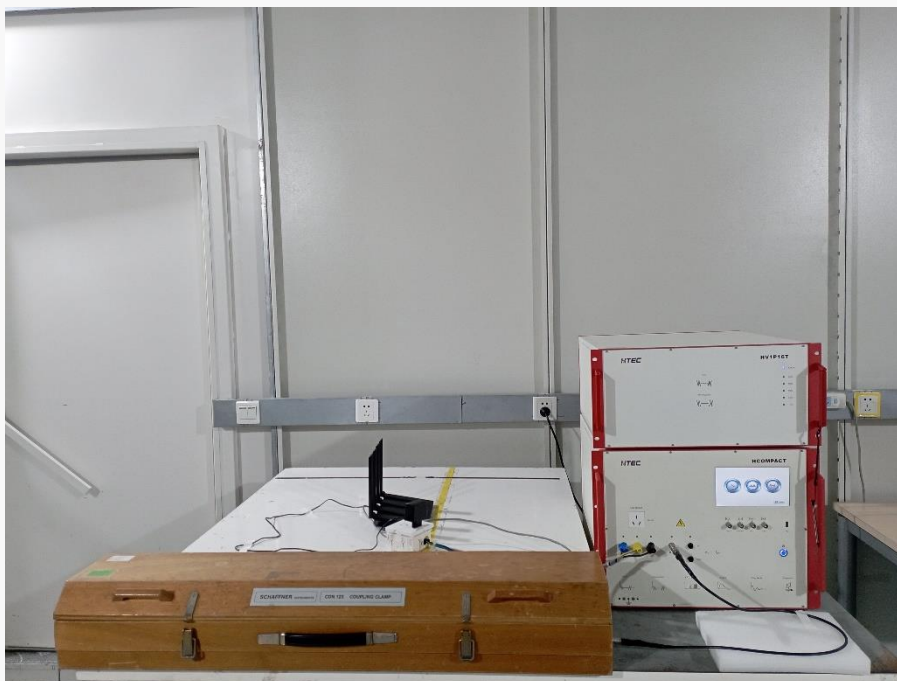
RS (Above 1 GHz)



EFT/B & Surges & Dips for Power Port



EFT/B for Signal Port



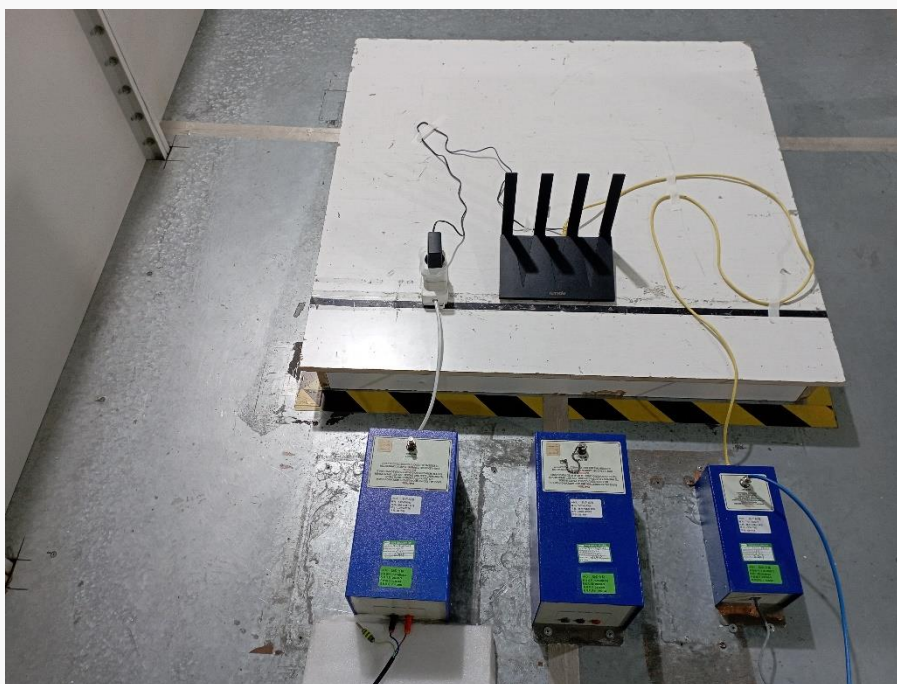
Surge for Signal Port☆



CS for Power Port



CS for Signal Port



Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s). This report must not be duplicated or used in part without prior written consent from the laboratory.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.
6. This report may contain data that are measured by the subcontractor and shall be marked with an asterisk “☆”.
7. This report may contain data that is not covered by the accreditation scope and shall be marked with ▲.

***** END OF REPORT *****