

Test Report

Applicant: Ningbo Reawant International Trading Co., Ltd.

Product Name: wall niche

Brand Name: N/A

Model No.: RT801, RT802, RT803

Remark: Only the model RT801 was tested, The electrical circuit design, layout, components used and internal wiring are identical, Only the model name and appearance colour are different.

Date of Receipt : Jan.09,2026

Date of Test: Jan.12,2026

Date of Report: Jan.13,2026

Prepared by: Shenzhen Most Technology Service Co., Ltd.

The EMC testing has been performed on the submitted samples and found in compliance with the council EMC Regulations 2016(S I 2016/1091).

Shenzhen Most Technology Service Co., Ltd.
East A, 1/F., New Aolin Factory Buiding, Langshan Erlu, North Area, Hi-Tech
Industrial Park, Nanshan District, Shenzhen, Guangdong, China
Phone: 86-755-86026850
Fax: 86-755- 26013350
[http:// www.szmost.com](http://www.szmost.com)

TABLE OF CONTENTS

Description	Page
Test Report Declaration.....	4
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT)	5
1.2. Operational Mode(s) of EUT	5
1.3. Test Voltage(s) of EUT	5
2. DESCRIPTION OF TEST STANDARD	6
3. LABORATORY INFORMATION	7
3.1. Laboratory Name	7
3.2. Location	7
3.3. Test facility	7
3.4. Measurement Uncertainty	7
4. SUMMARY OF TEST RESULTS	8
5. BLOCK DIAGRAM OF TEST SETUP	9
5.1. Block Diagram of connection between EUT and simulation-EMI	9
5.2. Block Diagram of connection between EUT and simulation-EMS	9
6. TEST INSTRUMENT USED	10
6.1. For Conducted Disturbance at Mains Terminals Emission Test	10
6.2. For Radiation Test (In Anechoic Chamber)(Below 1000MHz)	10
6.3. For Radiation Test (In Anechoic Chamber)(Above 1000MHz)	10
6.4. For Electrostatic Discharge Immunity Test	11
6.5. For Electrical Fast Transient/Burst Immunity Test	11
6.6. For Surge Test	11
6.7. For Injected Currents Susceptibility Test	11
6.8. For Voltage Dips and Interruptions Test	11
6.9. For RF Strength Susceptibility Test	11
6.10. For Harmonic / Flicker Test	12
6.11. For Magnetic Test (In Shielding Room)	12
7. CONDUCTED DISTURBANCE AT MAINS TERMINALS TEST	13
7.1. Configuration of Test System	13
7.2. Test Standard	13
7.3. Power Line Conducted Disturbance at Mains Terminals Limit	13
7.4. Test Procedure	13
7.5. Conducted Disturbance at Mains Terminals Test Results	14
8. MAGNETIC TEST	15
8.1. Configuration of Test System	15
8.2. Test Standard	15
8.3. Magnetic Field Emission Limit	15
8.4. Test Procedure	15
8.5. Radiated Disturbance Test Results	16
9. RADIATED DISTURBANCE TEST	17
9.1. Configuration of Test System	17
9.2. Test Standard	17
9.3. Radiated Disturbance Limit	17
9.4. Test Procedure	17
9.5. Radiated Disturbance Test Results	18
10. HARMONIC CURRENT TEST	19
10.1. Configuration of Test System	19
10.2. Test Standard	19
10.3. Test Limits	19
10.4. Test Results	19
11. VOLTAGE FLUCTUATIONS & FLICKER TEST	21
11.1. Configuration of Test System	21
11.2. Test Standard	21

11.3. Test Limits	21
11.4. Test Results: N/A	21
12. IMMUNITY PERFORMANCE CRITERIA	22
13. ELECTROSTATIC DISCHARGE IMMUNITY TEST	23
13.1. Configuration of Test System	23
13.2. Test Standard	23
13.3. Severity Levels and Performance Criterion	24
13.4. Test Procedure	24
13.5. Test Results	24
14. RF FIELD STRENGTH SUSCEPTIBILITY TEST	26
14.1. Configuration of Test System	26
14.2. Test Standard	26
14.3. Severity Levels and Performance Criterion	26
14.4. Test Procedure	27
14.5. Test Results	27
15. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST	29
15.1. Configuration of Test System	29
15.2. Test Standard	29
15.3. Severity Levels and Performance Criterion	29
15.4. Test Procedure	30
15.5. Test Results	30
16. SURGE TEST	32
16.1. Configuration of Test System	32
16.2. Test Standard	32
16.3. Severity Levels and Performance Criterion	32
16.4. Test Procedure	33
16.5. Test Results	33
17. INJECTED CURRENTS SUSCEPTIBILITY TEST	35
17.1. Configuration of Test System	35
17.2. Test Standard	35
17.3. Severity Levels and Performance Criterion	35
17.4. Test Procedure	36
17.5. Test Results	36
18. MAGNETIC FIELD IMMUNITY TEST	38
18.1. Configuration of Test System	38
18.2. Test Standard	38
18.3. Severity Levels and Performance Criterion	38
18.4. Test Procedure	39
18.5. Test Results	39
19. VOLTAGE DIPS AND INTERRUPTIONS TEST	40
19.1. Configuration of Test System	40
19.2. Test Standard	40
19.3. Severity Levels and Performance Criterion	40
19.4. Test Procedure	40
19.5. Test Results	40
APPENDIX I	(2 pages)
APPENDIX II	(2 pages)
APPENDIX III(Test Photos)	(2 pages)
APPENDIX IV(Photos of the EUT)	(2 pages)

TEST REPORT DECLARATION

Report Number	MTEB26010101	
Applicant	Ningbo Reawant International Trading Co., Ltd.	
	Room 1601-3, Building 2, Chengnan Business Building, Yinzhou District, Ningbo City, Zhejiang Province	
Manufacturer	Ningbo Reawant International Trading Co., Ltd.	
	Room 1601-3, Building 2, Chengnan Business Building, Yinzhou District, Ningbo City, Zhejiang Province	
Product	Product Name	wall niche
	Model No.	RT801
	Power Supply	DC 12V by Adapter
Test Result	The EUT was found compliant with the requirement(s) of the standards.	
Standard	BS EN IEC55015:2019+A11:2020, BS EN IEC61000-3-2:2019+A2:2024, BS EN 61000-3-3:2013+A2:2021, BS EN IEC61547:2023	
*Note The above device has been tested by Shenzhen Most Technology Service Co., Ltd. To determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test record, data evaluation & Equipment Under Test (EUT) configurations represented are contained in this test report and Shenzhen Most Technology Service Co., Ltd. Is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the requirement of the above standards. This report applies to above tested sample only. This report shall not be reproduced except in full, without written approval of Shenzhen Most Technology Service Co., Ltd., this document may be altered or revised by Shenzhen Most Technology Service Co., Ltd., personal only, and shall be noted in the revision of the document.		
Prepared by		
	Ekaterina Zhang(Engineer)	
Reviewed by		
	Sunny Deng(Engineer)	
Approved by		
	Yvette Zhou(Manager)	



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	wall niche
Model Number	:	RT801, RT802, RT803
Remark	:	Use RT801 for all tests

1.2. Operational Mode(s) of EUT

Order Number	:	Test Mode(s)
1	:	ON

1.3. Test Voltage(s) of EUT

Order Number	:	Test Voltage(s)
1	:	DC 12V by Adapter

2. DESCRIPTION OF TEST STANDARD

The intention of this publication is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

The following referenced standard are indispensable for the application of this report.

Referenced Description below:

BS EN IEC55015:2019+A11:2020

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

BS EN IEC61000-3-2:2019+A2:2024

Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).

BS EN 61000-3-3:2013+A2:2021

Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

BS EN IEC61547:2023

Equipment for general lighting purposes - EMC immunity requirements.

3. LABORATORY INFORMATION

3.1.Laboratory Name

Shenzhen Most Technology Service Co., Ltd.

3.2.Location

East A, 1/F., New Aolin Factory Buiding, Langshan Erlu, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

3.3.Test facility

3m Anechoic Chamber	: Nov. 28, 2012 File on Federal Communication Commission Registration Number:490827
Shielding Room	: Nov. 28, 2012 File on Federal Communication Commission Registration Number:490827
EMC Lab.	: Accredited by TUV Rheinland Shenzhen Audit Report: UA 50149851 Mar. 12, 2009 Accredited by Industry Canada Registration Number: 7103A-1 Oct. 22, 2012 Accredited by TIMCO Registration Number: Q1460 March 28, 2010

3.4.Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Disturbance Test	1.25dB
2.	Uncertainty for Radiated Disturbance Test	3.15dB

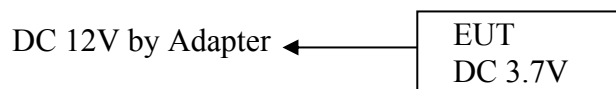
4. SUMMARY OF TEST RESULTS

EMISSION			
Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	BS EN IEC55015:2019+A11:2020	---	PASS
Magnetic test	BS EN IEC55015:2019+A11:2020	---	PASS
Radiated disturbance	BS EN IEC55015:2019+A11:2020	---	PASS
Harmonic current emissions	BS EN IEC61000-3-2:2019 +A2:2024	Class C	PASS
Voltage fluctuations & flicker	BS EN 61000-3-3:2013 +A2:2021	---	N/A
IMMUNITY (BS EN IEC61547:2023)			
Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	BS EN 61000-4-2:2009	B	PASS
Radio-frequency, Continuous radiated disturbance	BS EN IEC61000-4-3:2020	A	PASS
Electrical fast transient (EFT)	BS EN 61000-4-4:2012	B	PASS
Surge (Input a.c. power ports)	BS EN 61000-4-5:2014+A1:2017	B	PASS
Radio-frequency, Continuous conducted disturbance	BS EN 61000-4-6:2014	A	PASS
Power frequency magnetic field	BS EN 61000-4-8:2010	A	N/A (See Note2)
Voltage dips, 100% reduction	BS EN IEC61000-4-11:2020	B	PASS
Voltage dips, 30% reduction		C	PASS
Note1: N/A is an abbreviation for Not Applicable.			
Note2: See test data result remarks.			

5. BLOCK DIAGRAM OF TEST SETUP

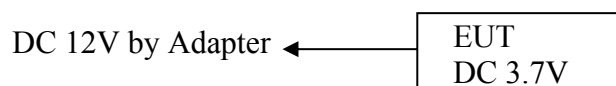
The equipments are installed test to meet BS EN IEC55015 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. EUT was tested in normal configuration (Please See following Block diagrams)

5.1. Block Diagram of connection between EUT and simulation-EMI



(EUT: wall niche)

5.2. Block Diagram of connection between EUT and simulation-EMS



(EUT: wall niche)

6. TEST INSTRUMENT USED

6.1. For Conducted Disturbance at Mains Terminals Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESPI	101202	Mar. 04, 25	1 Year
2.	L.I.S.N.	Rohde & Schwarz	ENV216	100093	Mar. 04, 25	1 Year
3.	Coaxial Switch	Anritsu Corp	MP59B	6200283933	Mar. 04, 25	1 Year
4.	Terminator	Hubersuhner	50Ω	No.1	Mar. 04, 25	1 Year
5.	RF Cable	SchwarzBeck	N/A	No.1	Mar. 04, 25	1 Year
6.	Testing software	Fala	EZ-EMC(CE)	Ver.con-03A1	/	/

6.2. For Radiation Test (In Anechoic Chamber)(Below 1000MHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	100492	Mar. 04, 25	1 Year
2.	Bilog Antenna	Sunol	JB3	A121206	Nov. 22, 25	1 Year
3.	Cable	Times	N/A	NO.1	Mar. 04, 25	1 Year
4.	Cable	Times	N/A	NO.2	Mar. 04, 25	1 Year
5.	Cable	Times	N/A	NO.3	Mar. 04, 25	1 Year
6.	DC Power Filter	DuoJi	DL2&30B	N/A	N/A	N/A
7.	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	N/A	N/A
8.	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	N/A	N/A
9.	Testing software	Fala	EZ-EMC(RE)	Ver.FA-03A1	/	/

6.3. For Radiation Test (In Anechoic Chamber)(Above 1000MHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9020A	/	Mar. 04, 25	1 Year
2	Pre- Amplifier	MW	KA-LNA18-40-01	24001	Mar. 04, 25	1 Year
3	Horn Antenna	Schwarzback	BBHA9120D	D69250	Mar. 16, 25	1 Year
4	RF Cable(below1GHz)	Times	9kHz-1GHz	RF Cable No.1	Mar. 04, 25	1 Year
5	RF Cable(above1GHz)	Times	1-18G	RF Cable No.2	Mar. 04, 25	1 Year
6	DC Power Filter	DuoJi	DL2×30B	N/A	N/A	N/A
7	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	N/A	N/A
8	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	N/A	N/A
9.	Testing software	Fala	EZ-EMC(RE)	Ver.FA-03A1	/	/

6.4.For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	Zhongsheng	ESD-203AX	023K14538	Mar. 05, 25	1 Year

6.5.For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EFT tester	Prima	EFT61004TA	/	Mar. 04, 25	1 Year

6.6.For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Generator	Prima	SUG61005TB	/	Mar. 04, 25	1 Year

6.7.For Injected Currents Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	ROHDE & SCHWARZ	SMB 100A	104277	Mar. 04, 25	1 Year
2.	CDN	LionCEL	CDN-M3-16	170702	NCR	NCR
3.	Power amplifier	rflight	NTWPA-00010475	14103467	Mar. 04, 25	1 Year
4.	Electromagnetic injection clamp	SCHAFFNER	KEMZ 801	15806	Mar. 04, 25	1 Year
5.	CDN	CYBERTEK	EM 5070	/	Mar. 04, 25	1 Year
6.	Attenuator	SUNWAVE	SJ-50-06DB	SW01020213394	Mar. 04, 25	1 Year

6.8.For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Cycle drop generator	Prima	DRP61011TA	/	Mar. 04, 25	1 Year

6.9.For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	IFR	2032	203002/100	Mar. 04, 25	1 Year
2.	Amplifier	A&R	150W1000	301584	NCR	NCR
3.	Dual Directional Coupler	A&R	DC6080	301508	Mar. 04, 25	1 Year
4.	Power Sensor	Anritsu	MA2491A	32263	Mar. 04, 25	1 Year
5.	Power Meter	R&S	NRVS	100444	Mar. 04, 25	1 Year
6.	Field Monitor	A&R	FM5004	300329	Mar. 04, 25	1 Year
7.	Field Probe	A&R	FP5000	300221	Mar. 04, 25	1 Year
8.	Log-periodic Antenna	A&R	AT1080	16512	Mar. 04, 25	1 Year
9.	RF Cable	MIYAZAKI	N/A	No.1/No.2	Mar. 04, 25	1 Year

6.10. For Harmonic / Flicker Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	AC Power Source	Kikusui	AC40MA	LM003232	Mar. 05, 25	1 Year
2.	Test Analyzer	Kikusui	KHA1000	LM003720	Mar. 05, 25	1 Year
3.	Line Impedance Network	Kikusui	LIN40MA-PCR-L	LM002352	Mar. 05, 25	1 Year

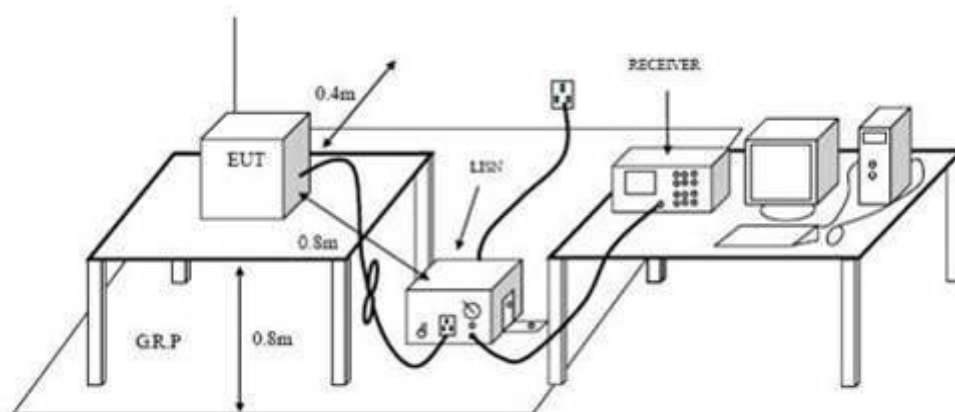
6.11. For Magnetic Test (In Shielding Room)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Mar. 04, 25	1 Year
2.	Loop Antenna	Laplace	RF300	8006	Mar. 04, 25	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Mar. 04, 25	1 Year
4.	Coaxial Switch	Anritsu Corp	MP59B	6200283933	Mar. 04, 25	1 Year

7. CONDUCTED DISTURBANCE AT MAINS

TERMINALS TEST

7.1. Configuration of Test System



7.2. Test Standard

BS EN IEC55015:2019+A11:2020

7.3. Power Line Conducted Disturbance at Mains Terminals Limit

Frequency (MHz)	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
0.009 ~ 0.05	110	-
0.05 ~ 0.15	90 to 80*	-
0.15 ~ 0.50	66 to 56*	56 to 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. At the transition frequency, the lower limit applies.

2. *The limit decreases linearly with the logarithm of the frequency in the Frequency in the ranges 50KHz to 150KHz and 150KHz to 0.5MHz.

7.4. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to BS EN IEC55015 on conducted Disturbance test.

The bandwidth setting on the test receiver is 200Hz(frequency range from 9KHz to 150KHz) and 9KHz (frequency range from 150KHz to 30MHz)

The frequency range from 9kHz to 30MHz is checked. The test result are reported on Section 7.5.

7.5. Conducted Disturbance at Mains Terminals Test Results

7.5.1. Test Results: **PASS**

7.5.2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

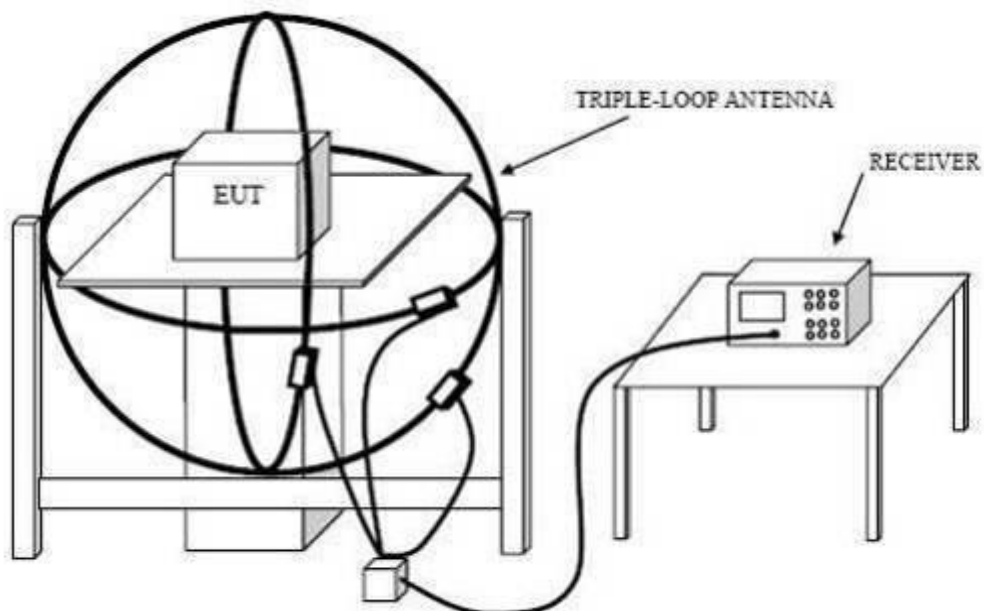
7.5.3. Emission Level= Correct Factor + Reading Level.

7.5.4. The test data and the scanning waveform are attached within Appendix I.

Note : All test modes are performed, only the worst case is recorded in this report.

8. MAGNETIC TEST

8.1. Configuration of Test System



8.2. Test Standard

BS EN IEC55015:2019+A11:2020

8.3. Magnetic Field Emission Limit

Frequency (MHz)	Limits for loop diameter (dBuA)
	2m
0.009~0.07	88
0.07~0.15	88~58*
0.15~3.00	58~22*
3.00~30.0	22

Note: 1. At the transition frequency the lower limit applies.

2. *decreasing linearly with logarithm of the frequency.

8.4. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coax switch.

The frequency range from 9 KHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9 KHz to 150 KHz, the bandwidth of the field strength meter (R&S test receiver ESCI) is set at 200Hz. For frequency band 150 KHz to 30MHz, the bandwidth is set at 9 KHz.

The test result are reported on Section 8.5.

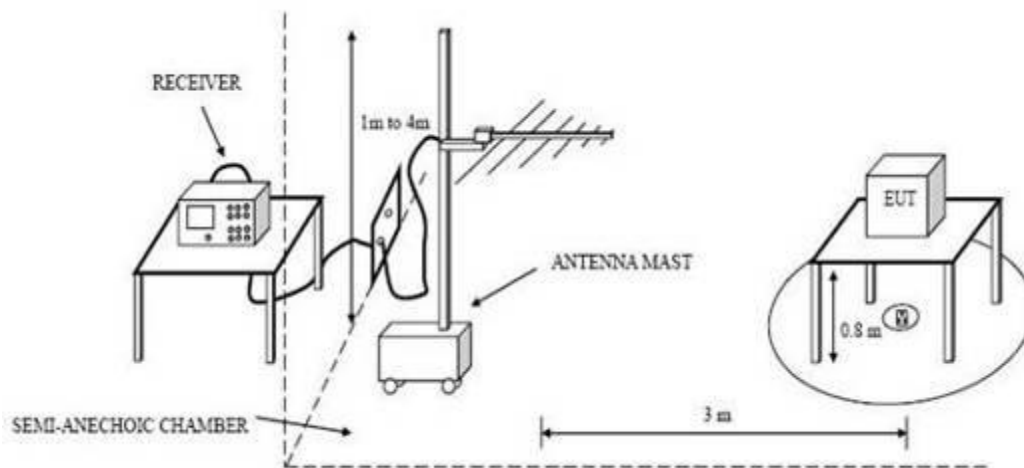
8.5. Radiated Disturbance Test Results

8.5.1. Test Results: **PASS**

(Remark: 1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position. 2. The test data result margin is greater than 20dB and is not recorded in the report)

9. RADIATED DISTURBANCE TEST

9.1. Configuration of Test System



9.2. Test Standard

BS EN IEC55015:2019+A11:2020

9.3. Radiated Disturbance Limit

All emanations from devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: 1. The lower limit shall apply at the transition frequencies.

2. Distance refers to the distance in meters between the test antenna and the closed point of any part of the EUT.

9.4. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to BS EN IEC55015 on Radiated Disturbance test.

The bandwidth setting on the test receiver is 120 kHz.

The frequency range from 30MHz to 1000MHz is checked. The test result are reported on

Section 9.5.

9.5. Radiated Disturbance Test Results

9.5.1. Test Results: **PASS**

9.5.2. Emission Level = Correct Factor + Reading Level.

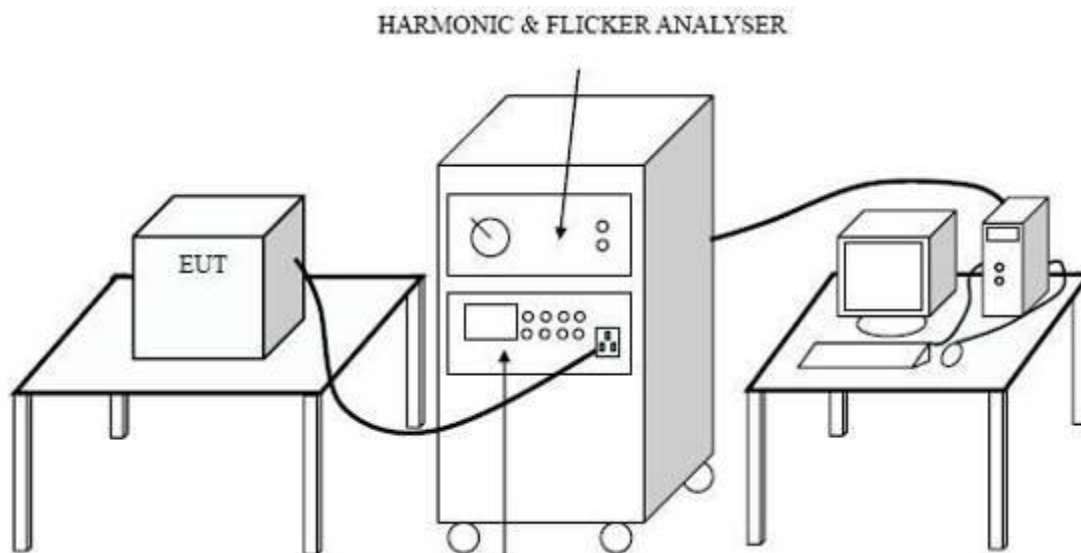
9.5.3. All readings are Quasi-Peak values.

9.5.4. The test data and the scanning waveform are attached within Appendix II.

Note : All test modes are performed, only the worst case is recorded in this report.

10. HARMONIC CURRENT TEST

10.1. Configuration of Test System



10.2. Test Standard

BS EN IEC61000-3-2:2019+A2:2024; Class C

10.3. Test Limits

For Class C equipment, the harmonics of the input current shall not exceed the values given in below:

Harmonic order h	Maximum permissible harmonic current A
Odd harmonics	
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
$15 \leq h \leq 39$ (odd harmonics only)	$0,15 \frac{15}{h}$

10.4. Test Results

10.4.1. Test Results: PASS

EUT:	wall niche	M/N:	RT801
Mode:	ON	Power:	AC 230V/50Hz
Tested by:	Seven	Test date:	2026-01-12
Temperature: / Humidity	25.5°C/ 57.5%		

Test Data of Current Harmonics

FINAL TEST RESULT **PASS**

Voltage	230.38V
Current	0.053A
Power	3.70W

Apparent Power	12.1VA
----------------	--------

THC	0.046A
POHC/LIMIT	0.019A/ -----A *4
Nominal	230V/ 50Hz
Fundamental current	0.016A
Measuring period	150s
Margin	100%

HarmOrder	Limit1(A rms)	Limit2(A rms)	Ave(A rms)	Max(A rms)	LimitOver(s)	Judge
2	1.0800	2.1600	0.0020	0.002	0.0	N/A
3	2.3000	4.6000	0.0160	0.016	0.0	N/A
4	0.4300	0.8600	0.0020	0.002	0.0	N/A
5	1.1400	2.2800	0.0156	0.016	0.0	N/A
6	0.3000	0.6000	0.0020	0.002	0.0	N/A
7	0.7700	1.5400	0.0150	0.015	0.0	N/A
8	0.2300	0.4600	0.0020	0.002	0.0	N/A
9	0.4000	0.8000	0.0149	0.015	0.0	N/A
10	0.1840	0.3680	0.0020	0.003	0.0	N/A
11	0.3300	0.6600	0.0140	0.014	0.0	N/A
12	0.1533	0.3066	0.0020	0.002	0.0	N/A
13	0.2100	0.4200	0.0130	0.013	0.0	N/A
14	0.1314	0.2628	0.0020	0.002	0.0	N/A
15	0.1500	0.3000	0.0120	0.013	0.0	N/A
16	0.1150	0.2300	0.0020	0.002	0.0	N/A
17	0.1324	0.2648	0.0112	0.012	0.0	N/A
18	0.1022	0.2044	0.0020	0.002	0.0	N/A
19	0.1184	0.2368	0.0105	0.011	0.0	N/A
20	0.0920	0.1840	0.0020	0.002	0.0	N/A
21	0.1071	0.2142	0.0096	0.010	0.0	N/A
22	0.0836	0.1672	0.0020	0.002	0.0	N/A
23	0.0978	0.1956	0.0086	0.009	0.0	N/A
24	0.0767	0.1534	0.0020	0.002	0.0	N/A
25	0.0900	0.1800	0.0075	0.008	0.0	N/A
26	0.0708	0.1416	0.0020	0.002	0.0	N/A
27	0.0833	0.1666	0.0066	0.007	0.0	N/A
28	0.0657	0.1314	0.0020	0.002	0.0	N/A
29	0.0776	0.1552	0.0058	0.006	0.0	N/A
30	0.0613	0.1226	0.0020	0.002	0.0	N/A
31	0.0726	0.1452	0.0050	0.005	0.0	N/A
32	0.0575	0.1150	0.0015	0.002	0.0	N/A
33	0.0682	0.1364	0.0040	0.004	0.0	N/A
34	0.0541	0.1082	0.0010	0.001	0.0	N/A
35	0.0643	0.1286	0.0030	0.003	0.0	N/A
36	0.0511	0.1022	0.0010	0.002	0.0	N/A
37	0.0608	0.1216	0.0028	0.003	0.0	N/A
38	0.0484	0.0968	0.0010	0.002	0.0	N/A
39	0.0577	0.1154	0.0020	0.002	0.0	N/A
40	0.0460	0.0920	0.0010	0.001	0.0	N/A

Type of equipment behaviour: Quasi-Stationary

*4 When the Edition 3.0 is applied, 200% of the Limit1 value is applied to each Limit2 value.

11.VOLTAGE FLUCTUATIONS & FLICKER TEST

11.1.Configuration of Test System

Same as Section 10.1.

11.2.Test Standard

BS EN 61000-3-3:2013+A2:2021

11.3.Test Limits

The limits shall be applicable to voltage fluctuations and flicker at the supply terminals of the equipment under test, 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;

the value of $d(t)$ during a voltage change shall not exceed 3.3% for more than 500ms;

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.

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.

11.4.Test Results: N/A

12. IMMUNITY PERFORMANCE CRITERIA

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level by its manufacturer or the requestor of the test, or the agreed between the manufacturer and the purchaser of the product.

Definition related to the performance level:

Based on the used product standard

Based on the declaration of the manufacturer, requestor or purchaser

Criterion A:

During the test no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.

Criterion B:

During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min.

Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.

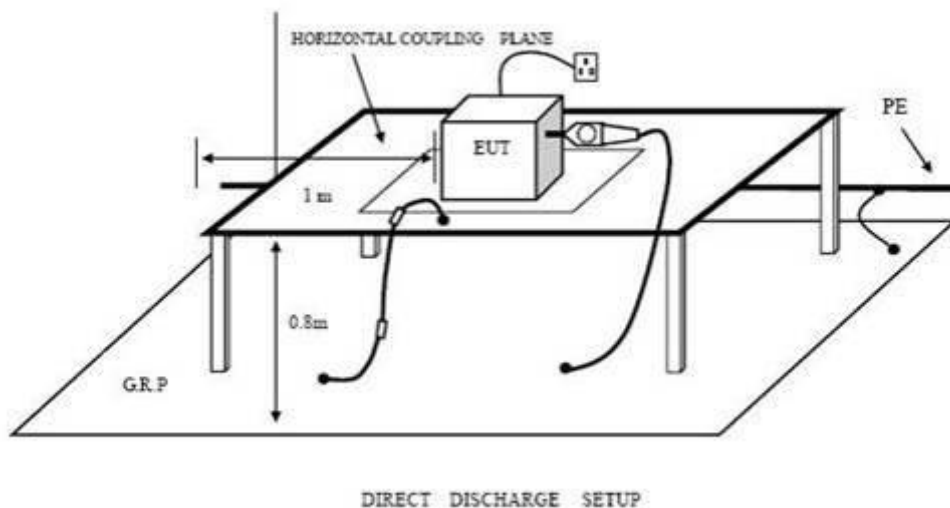
Criterion C:

During and after the test any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains supply and/or operating the regulating control.

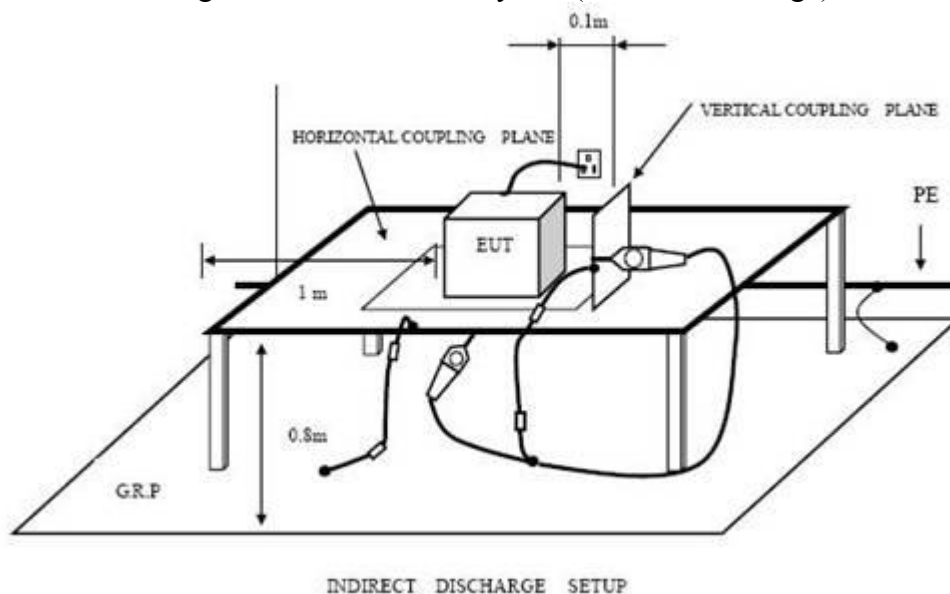
13.ELECTROSTATIC DISCHARGE IMMUNITY TEST

13.1.Configuration of Test System

13.1.1. Configuration of ESD Test System(Direct Discharge)



13.1.2.Configuration of ESD Test System(Indirect Discharge)



13.2.Test Standard

BS EN IEC61547:2023 (BS EN 61000-4-2)
(Severity Level 3 for Air Discharge at 8KV,
Severity Level 2 for Contact Discharge at 4KV)

13.3. Severity Levels and Performance Criterion

13.3.1. Severity 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

13.3.2. Performance criterion : **B**

13.4. Test Procedure

13.4.1. Air Discharge:

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

13.4.2. Contact Discharge:

All the procedure was same as Section 13.4.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch was operated.

13.4.3. 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 0.1m from the EUT and with the discharge electrode touching the coupling plane.

13.4.4. 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 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m 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.

13.5. Test Results

13.5.1. Test Results: **PASS**

13.5.2. Test data on the following pages.

Electrostatic Discharge Test Results

Shenzhen Most Technology Service Co., Ltd.

<i>Test Voltage</i> :	<i>1</i>	<i>Test Date:</i>	<i>Jan.12,2026</i>
<i>Test Mode</i> :	<i>1</i>	<i>Criterion</i> :	<i>B</i>
<i>Temperature:</i>	<i>25.5 °C</i>	<i>Humidity:</i>	<i>57.5%</i>
<i>Air Discharge: ±2,4 and 8KV</i> # <i>For Air Discharge each Point Positive 10 times and negative 10 times discharge.</i>			
<i>Contact Discharge: ±4KV</i> # <i>For Contact Discharge each point positive 10 times and negative 10 times discharge.</i>			
<i>Test Results Description</i>			
<i>Location</i>	<i>Kind</i> <i>A-Air Discharge</i> <i>C-Contact Discharge</i>	<i>Result</i>	
<i>Gaps</i>	<i>A</i>	<i>PASS</i>	
<i>HCP</i>	<i>C</i>	<i>PASS</i>	
<i>VCP of Front</i>	<i>C</i>	<i>PASS</i>	
<i>VCP of Rear</i>	<i>C</i>	<i>PASS</i>	
<i>VCP of Left</i>	<i>C</i>	<i>PASS</i>	
<i>VCP of Right</i>	<i>C</i>	<i>PASS</i>	
<i>Remark : No obvious abnormal phenomena.</i>			

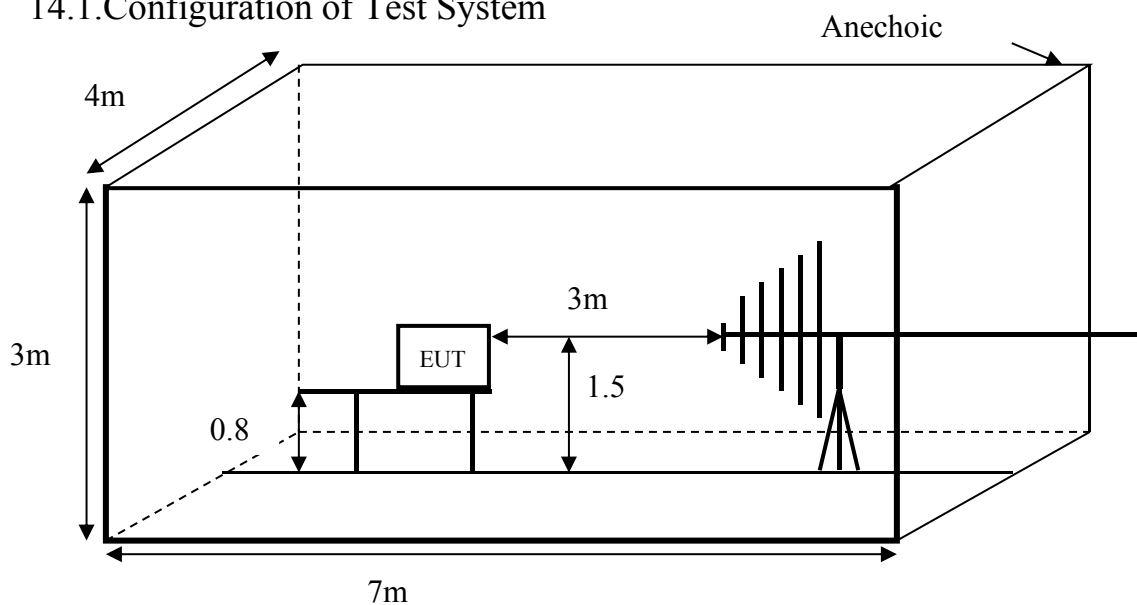
Discharge was considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

Reviewer :

Sunny

14. RF FIELD STRENGTH SUSCEPTIBILITY TEST

14.1. Configuration of Test System



14.2. Test Standard

BS EN IEC61547:2023 (BS EN IEC61000-4-3)
(Severity Level: 2 at 3V / m)

14.3. Severity Levels and Performance Criterion

14.3.1. Severity level

Level	Test Field Strength V/m
1.	1
2.	3
3.	10
X	Special

14.3.2. Performance criterion : A

14.4. 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 polarization of the antenna is 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 the EUT.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Test Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	80% amplitude modulated with a 1kHz sine wave
3. Scanning Frequency	80 - 1000 MHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1.5 Sec.

14.5. Test Results

14.5.1. Test Results: **PASS**

14.5.2. Test data on the following pages.

RF Field Strength Susceptibility Test Results

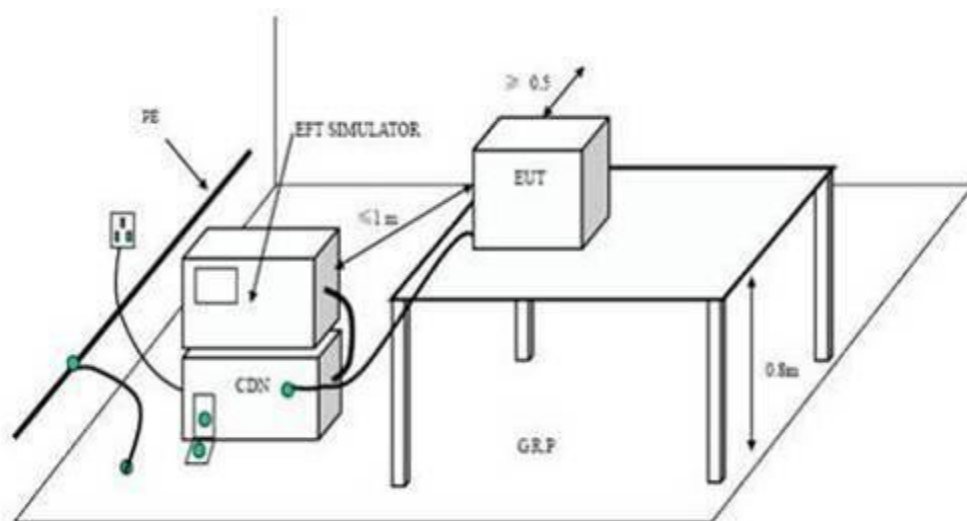
Shenzhen Most Technology Service Co., Ltd.

Test Voltage :	1	Test Date:	Jan.12,2026
Test Mode:	1	Frequency Range:	80-1000MHz
Field Strength :	3 V/m	Criterion :	A
Temperature:	25.5 °C	Humidity:	57.5%
Modulation: ☒ AM ☐ Pulse ☐ none 1 kHz 80%			
Test Results Description			
Frequency Rang 1: 80MHz - 1000 MHz			
Steps	1%	1%	
	Horizontal	Vertical	
Front	PASS	PASS	
Right	PASS	PASS	
Rear	PASS	PASS	
Left	PASS	PASS	
Remark : No obvious abnormal phenomena.			

Reviewer : Sunny

15.ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

15.1.Configuration of Test System



15.2.Test Standard

BS EN IEC61547:2023 (BS EN 61000-4-4)
(Severity Level 2 at 1KV)

15.3.Severity Levels and Performance Criterion

15.3.1.Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
X	Special	Special

15.3.2.Performance criterion : **B**

15.4. Test Procedure

The EUT and its simulators were placed on a the ground reference plane and were insulated from it by an wood support $0.1\text{m} \pm 0.01\text{m}$ thick. The ground reference plane was $1\text{m} \times 1\text{m}$ metallic sheet with 0.65mm minimum thickness. This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.

15.4.1. For input and AC power ports:

The EUT was connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both positive transients and negative transients of test voltage was applied during compliance test and the duration of the test can't less than 2mins.

15.4.2. For signal lines and control lines ports:

It's unnecessary to test.

15.4.3. For DC input and DC output power ports:

It's unnecessary to test.

15.5. Test Results

15.5.1. Test Results: **PASS**

15.5.2. Test data on the following pages.

Electrical Fast Transient/Burst Test Results

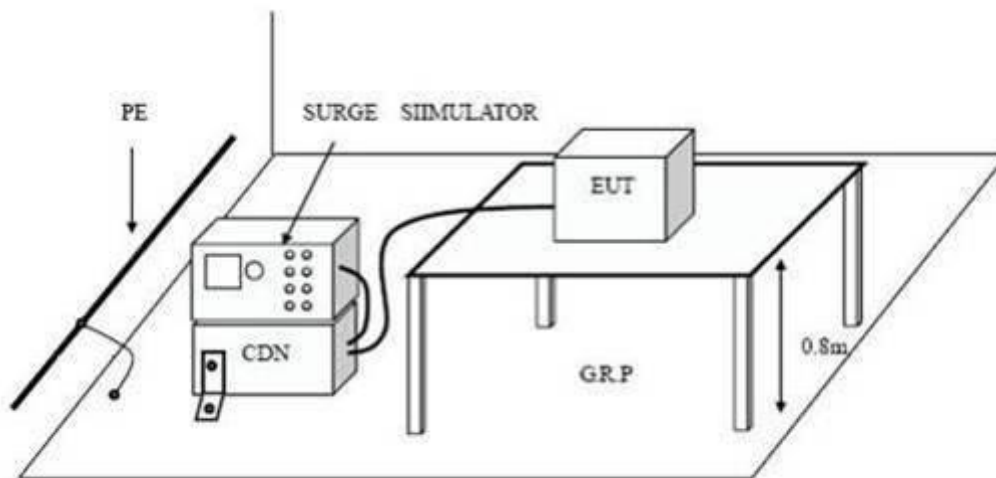
Shenzhen Most Technology Service Co., Ltd.

Test Voltage :	1	Test Date :	Jan.12,2026						
Test Mode :	1	Criterion :	B						
Temperature:	25.5 °C	Humidity:	57.5%						
Test Results Description									
Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results
L	±1	120	Direct	PASS					
N	±1	120	Direct	PASS					
L+ N	±1	120	Direct	PASS					
Remark : No obvious abnormal phenomena.									

Reviewer : Sunny

16.SURGE TEST

16.1.Configuration of Test System



16.2.Test Standard

BS EN IEC61547:2023 (BS EN 61000-4-5)
(Severity Level : Line to Line was Level 2 at 1KV
Line to PE was Level 3 at 2KV)

16.3.Severity Levels and Performance Criterion

16.3.1.Severity level

Severity Level	Open-Circuit Test Voltage KV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

16.3.2.Performance criterion : C

16.4. Test Procedure

- 16.4.1. Set up the EUT and test generator as shown on Section 16.1.
- 16.4.2. For line to line coupling mode, provide a 1KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral line to ground are same except test level is 2KV.
- 16.4.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are applied during test.
- 16.4.4. Different phase angles are done individually.
- 16.4.5. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

16.5. Test Results

- 16.5.1. Test Results: **PASS**
- 16.5.2. Test data on the following pages.

Surge Immunity Test Results

Shenzhen Most Technology Service Co., Ltd.

Test Voltage :	1	Test Date :	Jan.12,2026
Test Mode :	1	Criterion :	C
Temperature:	25.5 °C	Humidity:	57.5%

Test Results Description

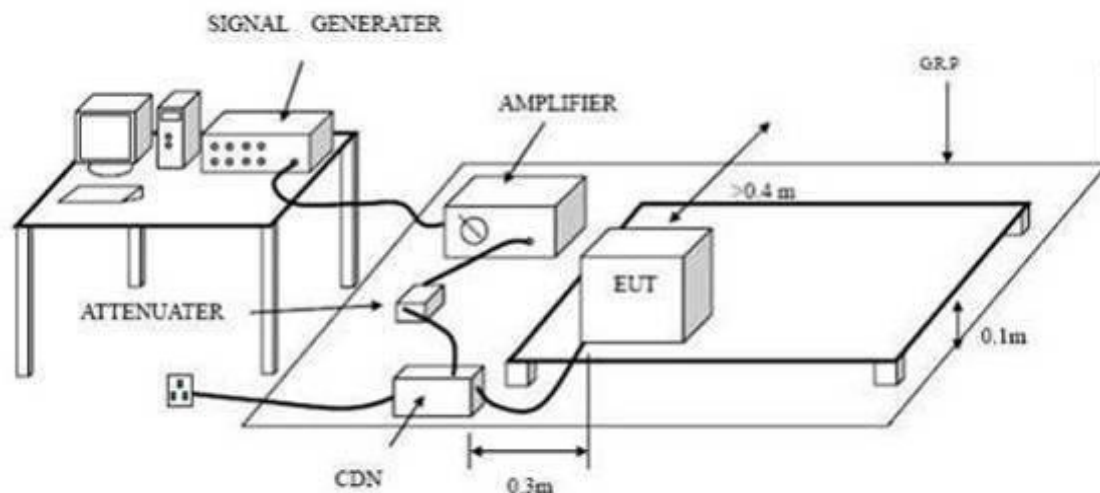
Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (KV)	Result
L- N	+	90	5	1.0	PASS
	-	270	5	1.0	PASS

Remark : No obvious abnormal phenomena.

Reviewer : Sunny

17. INJECTED CURRENTS SUSCEPTIBILITY TEST

17.1. Configuration of Test System



17.2. Test Standard

BS EN IEC61547:2023 (BS EN 61000-4-6)
(Severity Level 2 at 3V (r.m.s.) and frequency is from 0.15MHz to 80MHz)

17.3. Severity Levels and Performance Criterion

17.3.1. Severity level

Level	Voltage Level (e.m.f.) V
1.	1
2.	3
3.	10
X	Special

17.3.2. Performance criterion: A

17.4. Test Procedure

- 17.4.1. Set up the EUT, CDN and test generators as shown on Section 17.1.
- 17.4.2. Let the EUT work in test mode and test it.
- 17.4.3. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m 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).
- 17.4.4. The disturbance signal description below is injected to EUT through CDN.
- 17.4.5. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 17.4.6. The frequency range is swept from 0.15MHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 17.4.7. 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.
- 17.4.8. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

17.5. Test Results

- 17.5.1. Test Results: **PASS**
- 17.5.2. Test data on the following pages.

Injected Currents Susceptibility Test Results

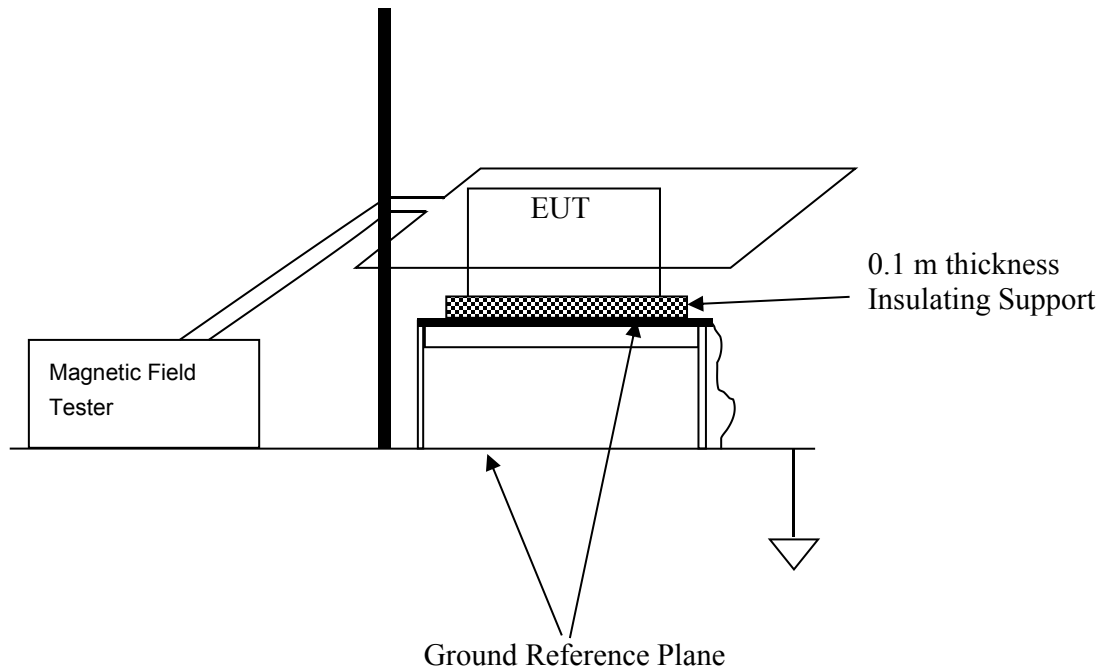
Shenzhen Most Technology Service Co., Ltd.

Power Supply :	1	Test Date: :	Jan.12,2026	
Test Mode :	1	Criterion: :	A	
Temperature:	25.5 °C	Humidity:	57.5%	
Test Results Description				
Frequency Range (MHz)	Injected Position	Voltage Level (e.m.f.)	Criterion	Result
0.15 ~ 80	AC Mains	3V(rms), Unmodulated	A	PASS
Remark : No obvious abnormal phenomena.				

Reviewer : 

18. MAGNETIC FIELD IMMUNITY TEST

18.1. Configuration of Test System



18.2. Test Standard

BS EN IEC61547:2023(BS EN 61000-4-8)
(Severity Level 2 at 3A/m)

18.3. Severity Levels and Performance Criterion

18.3.1. Severity level

Level	Magnetic Field Strength A/m
1.	1
2.	3
3.	10
4.	30
5.	100
X.	Special

18.3.2. Performance criterion : A

18.4. Test Procedure

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m) and shown in Section 18.1. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

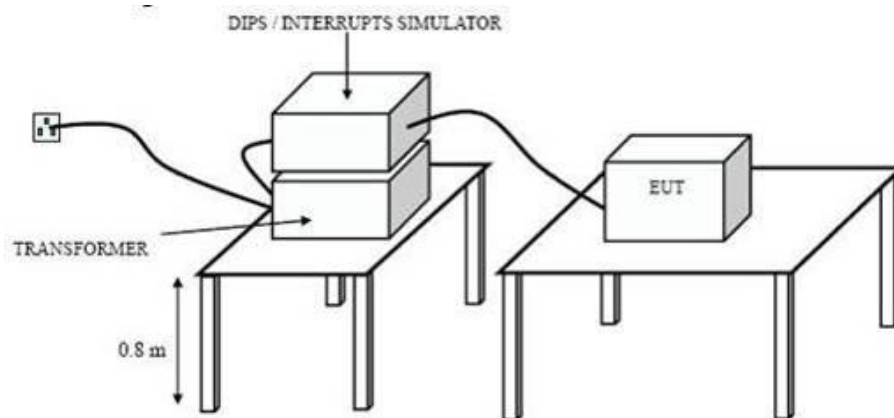
18.5. Test Results

18.5.1. Test Results: N/A

(The immunity against power frequency magnetic field was not tested because the EUT does not contain components, which are susceptible to magnetic fields. According to BS EN IEC61547:2023, clause 5.4: "these tests ... need only to be applied to equipment containing components susceptible to magnetic fields.")

19.VOLTAGE DIPS AND INTERRUPTIONS TEST

19.1.Configuration of Test System



19.2.Test Standard

BS EN IEC61547:2023 (BS EN IEC61000-4-11)
 (Severity level: 0% 0.5 period
 70% 10 periods)

19.3.Severity Levels and Performance Criterion

19.3.1.Severity level

Test Level %U _T	Voltage dip and short interruptions %U _T	Performance Criterion	Duration (in period)
0	100	B	0.5
70	30	C	10

19.3.2.Performance criterion : **B & C**

19.4.Test Procedure

19.4.1.The EUT and test generator were setup as shown on Section 19.1.

19.4.2.The interruptions is introduced at selected phase angles with specified duration.

19.4.3.Record any degradation of performance.

19.5.Test Results

19.5.1.Test Results: **PASS**

19.5.2.Test data on the following pages.

Voltage Dips And Interruptions Test Results

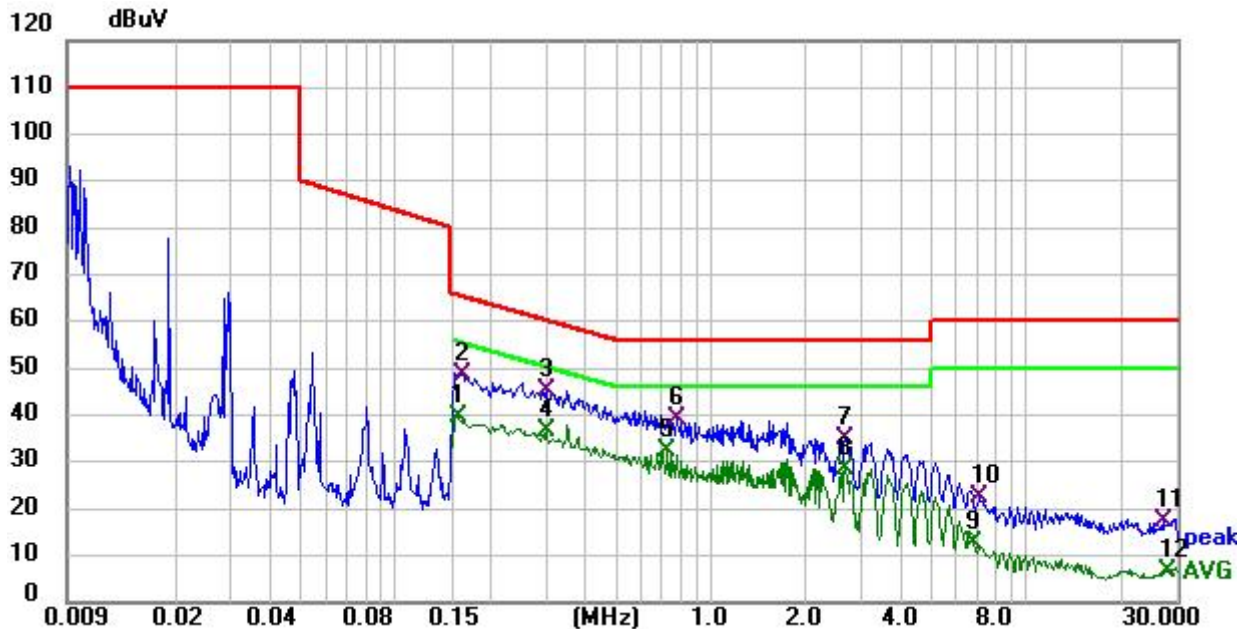
Shenzhen Most Technology Service Co., Ltd.

Test Voltage :	1		Test Date:	Jan.12,2026	
Test Mode :	1		Criterion :	B&C	
Temperature:	25.5 ℃		Humidity:	57.5%	
Test Results Description					
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in period)	Phase Angle	Criterion	Result
70	30	10P	0°~360°	C	PASS
0	100	0.5P	0°~360°	B	PASS
Remark: U _T is the rated voltage for the equipment.					

Reviewer : Sunny

APPENDIX I

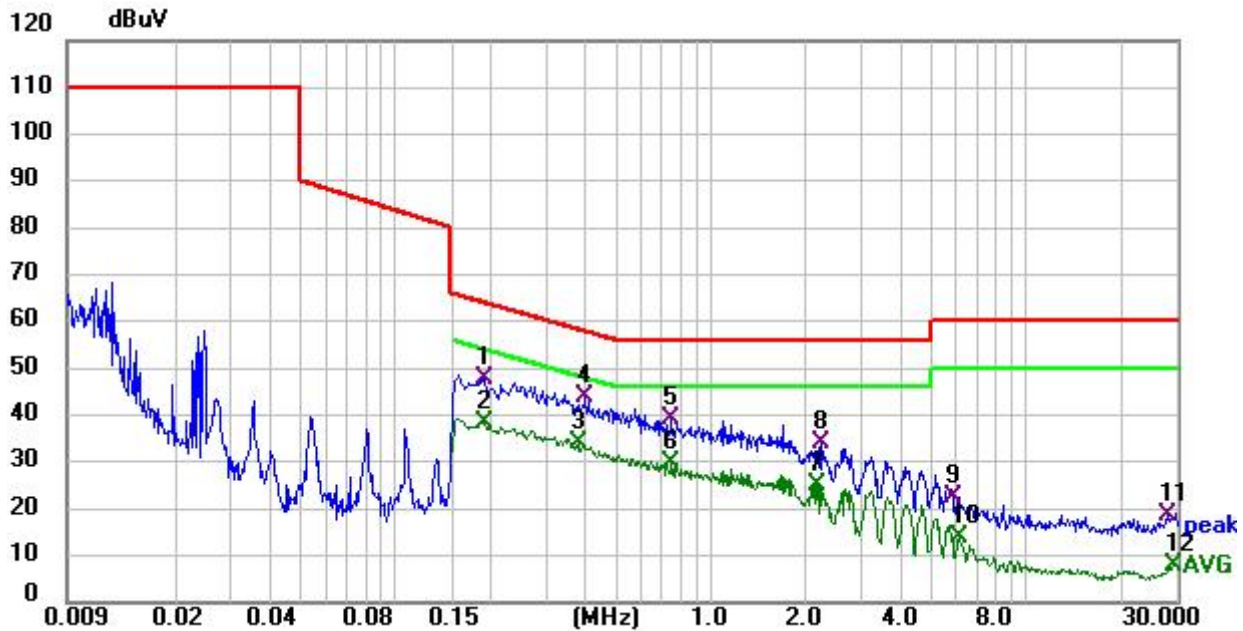
EUT:	wall niche	M/N:	RT801
Mode:	ON	Phase:	L
Test by:	Dawn	Power:	DC 12V by Adapter
Temperature: / Humidity	25.5°C / 57.5%	Test date:	2026-01-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1580	30.15	9.60	39.75	55.57	-15.82	AVG	P	
2	0.1620	39.16	9.61	48.77	65.36	-16.59	QP	P	
3	0.2980	35.65	9.59	45.24	60.30	-15.06	QP	P	
4	0.2980	26.97	9.59	36.56	50.30	-13.74	AVG	P	
5 *	0.7260	22.86	9.60	32.46	46.00	-13.54	AVG	P	
6	0.7780	29.63	9.60	39.23	56.00	-16.77	QP	P	
7	2.6619	25.48	9.61	35.09	56.00	-20.91	QP	P	
8	2.6619	18.84	9.61	28.45	46.00	-17.55	AVG	P	
9	6.8060	3.19	9.65	12.84	50.00	-37.16	AVG	P	
10	7.1860	12.66	9.65	22.31	60.00	-37.69	QP	P	
11	27.2540	7.50	9.76	17.26	60.00	-42.74	QP	P	
12	28.1860	-3.09	9.76	6.67	50.00	-43.33	AVG	P	

*:Maximum data x:Over limit !:over margin

EUT:	wall niche	M/N:	RT801
Mode:	ON	Phase:	N
Test by:	Dawn	Power:	DC 12V by Adapter
Temperature: / Humidity	25.5°C/ 57.5%	Test date:	2026-01-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1900	38.20	9.60	47.80	64.04	-16.24	QP	P	
2	0.1900	28.70	9.60	38.30	54.04	-15.74	AVG	P	
3	0.3780	24.38	9.59	33.97	48.32	-14.35	AVG	P	
4 *	0.3980	34.18	9.59	43.77	57.90	-14.13	QP	P	
5	0.7539	29.54	9.60	39.14	56.00	-16.86	QP	P	
6	0.7539	20.38	9.60	29.98	46.00	-16.02	AVG	P	
7	2.1780	15.48	9.60	25.08	46.00	-20.92	AVG	P	
8	2.2340	24.57	9.60	34.17	56.00	-21.83	QP	P	
9	5.8340	12.97	9.64	22.61	60.00	-37.39	QP	P	
10	6.1300	4.21	9.64	13.85	50.00	-36.15	AVG	P	
11	28.0420	8.88	9.76	18.64	60.00	-41.36	QP	P	
12	29.4700	-1.72	9.77	8.05	50.00	-41.95	AVG	P	

*:Maximum data x:Over limit !:over margin

APPENDIX II

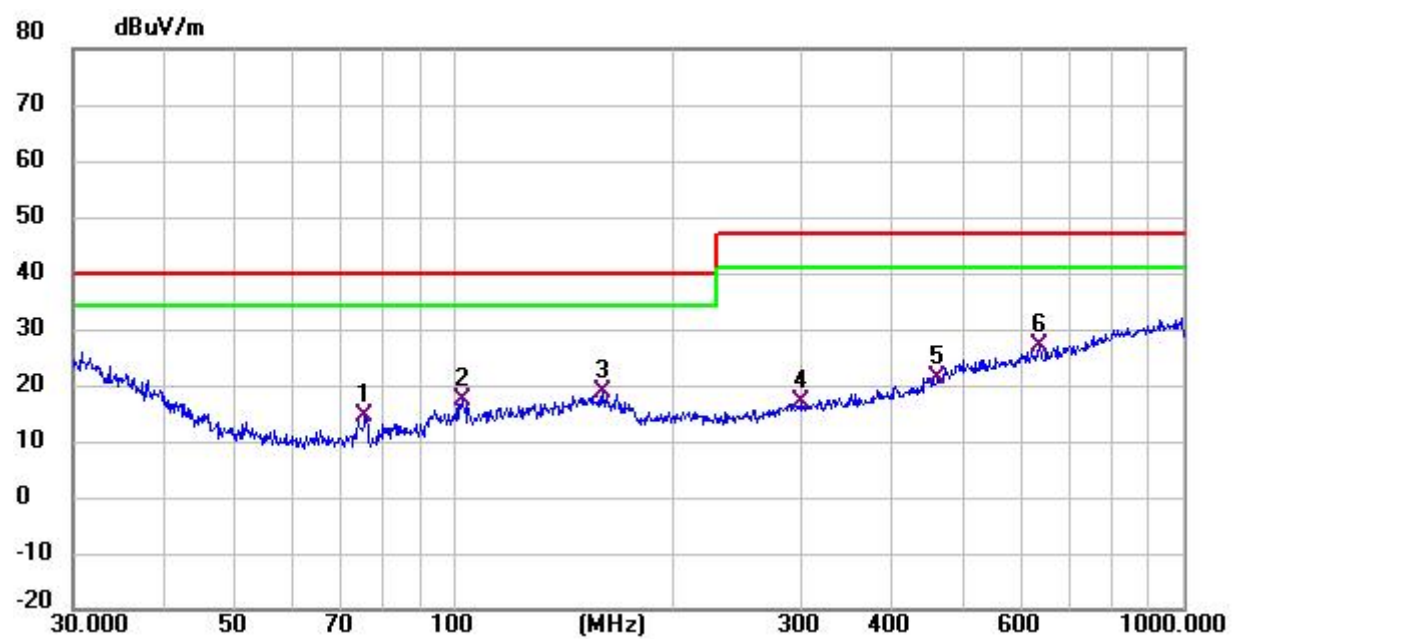
EUT:	wall niche	M/N:	RT801
Mode:	ON	Polarization:	Vertical
Test by:	Seven	Power:	DC 12V by Adapter
Temperature: / Humidity	25.5°C/ 57.5%	Test date:	2026-01-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.4000	9.86	10.31	20.17	40.00	-19.83	QP			P	
2	55.4000	9.55	8.37	17.92	40.00	-22.08	QP			P	
3	66.1600	8.38	9.03	17.41	40.00	-22.59	QP			P	
4 *	74.5199	11.97	9.66	21.63	40.00	-18.37	QP			P	
5	87.4800	10.99	9.95	20.94	40.00	-19.06	QP			P	
6	149.8000	0.97	17.67	18.64	40.00	-21.36	QP			P	

*:Maximum data x:Over limit !:over margin

EUT:	wall niche	M/N:	RT801
Mode:	ON	Polarization:	Horizontal
Test by:	Seven	Power:	DC 12V by Adapter
Temperature: / Humidity	25.5°C/ 57.5%	Test date:	2026-01-12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	75.6400	4.25	10.22	14.47	40.00	-25.53	QP			P	
2	102.9600	3.46	13.93	17.39	40.00	-22.61	QP			P	
3	160.0000	1.49	17.30	18.79	40.00	-21.21	QP			P	
4	301.0400	0.32	16.52	16.84	47.00	-30.16	QP			P	
5	461.8000	0.27	21.06	21.33	47.00	-25.67	QP			P	
6 *	636.4400	2.79	24.27	27.06	47.00	-19.94	QP			P	

*:Maximum data x:Over limit !:over margin

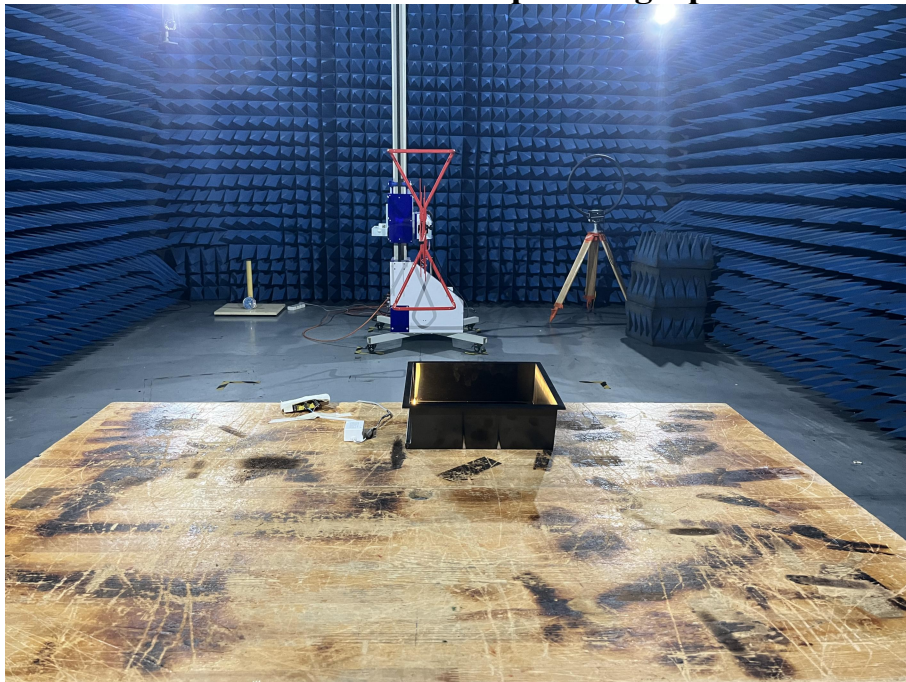
APPENDIX III

(Test Photos)

Conducted Test Setup Photograph



Radiated Test Setup Photograph



ESD Test Setup Photograph



APPENDIX IV

(Photos of the EUT)

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT



Figure 3
General Appearance of the EUT

