

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300053701

Page: 1 of 57

TEST REPORT

Application No.: SZCR2303000537AT(KSCR2302000236AT)
Applicant: Hangzhou Ezviz Software Co., Ltd.
Address of Applicant: Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District,Hangzhou,Zhejiang
Manufacturer: Hangzhou Ezviz Software Co., Ltd.
Address of Manufacturer: Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District,Hangzhou,Zhejiang
Equipment Under Test (EUT):
EUT Name: Smart Siren
Model No.: CS-T9C
Trade Mark: EZVIZ
Standard(s) : EN 55032: 2015+A11:2020+A1:2020
 EN 61000-3-3: 2013+ A1:2019+A2:2021
 EN IEC 61000-3-2: 2019+A1:2021
 EN 50130-4: 2011 +A1:2014
Date of Receipt: 2023-02-16
Date of Test: 2023-02-19 to 2023-02-27
Date of Issue: 2023-03-02

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-03-02		Original

Authorized for issue by:				
		Bill Chen		
		Bill Chen /Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Power Port (150kHz-30MHz)	EN 55032: 2015+A11:2020+A1:2020	EN 55032: 2015+A11:2020+A1:2020	Class B	Pass
Radiated Emissions (30MHz-1GHz)		EN 55032: 2015+A11:2020+A1:2020	Class B	Pass
Radiated Emissions (Above 1GHz)		EN 55032: 2015+A11:2020+A1:2020	Class B	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3: 2013+ A1:2019+A2:2021	EN 61000-3-3: 2013+ A1:2019+A2:2021	Clause 5	Pass
Harmonic Current Emission	EN IEC 61000-3-2: 2019+A1:2021	EN IEC 61000-3-2: 2019+A1:2021	N/A	N/A*

N/A: Not applicable. Please refer to Section 6.5 of this report for details.

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 50130-4: 2011 +A1:2014	EN 61000-4-2:2009	6kV Contact Discharge, 2,4,8kV Air Discharge	Pass
Radiated Immunity(80MHz-2.7GHz)		EN IEC 61000-4-3: 2020	10V/m, 80%, 1kHz sinusoidal Amp. Mod.	Pass
Electrical Fast Transients & Burst at AC Power Port		EN 61000-4-4:2012	2kV, 5/50ns Tr/Td, 100kHz Repetition Frequency	Pass
Surge at AC Power Port		EN 61000-4-5:2014 +A1:2017	1.2/50μs Tr/Td, 0.5,1kV Line to Line, 0.5,1,2kV Line to Ground	Pass
Conducted Immunity at Power Port (150kHz-100MHz)		EN 61000-4-6:2014	10Vrms (emf),80%,1kHz sinusoidal Amp. Mod.	Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11:2020	80 % UT for 250per, 70 % UT for 25per, 40 % UT for 10per, 0 % UT for 250per	Pass
Mains Supply Voltage Variations		EN 50130-4:2011+A1:2014	Unom+10%, Unom-15%	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	3VDC, 2A, 6W Max or 12VDC, 0.5A, 6W Max
Test Voltage:	DC 3V & AC 230V/50Hz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	ZTE	Z11MAX	/
Router	NETGEAR	RAX50	/
Adapter	HOIOTO	ADS-12FG-12N	/
Home Gateway	Ezviz	CS-A3	/
Battery	NECTIUM	AA LR6	/



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Power Port (150kHz-30MHz)	$\pm 2.9\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.5\text{dB}$
Voltage Fluctuations and Flicker	$\pm 3.7\%$
Harmonic Current Emission	$\pm 3.7\%$
Electrostatic Discharge	$\pm 6\%$
Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz)	$\pm 2.1\text{dB}$
Electrical Fast Transients & Burst at AC Power Port	$\pm 5.5\%$
Surge at AC Power Port	$\pm 5.5\%$
Conducted Immunity at AC Power Port (150kHz-80MHz)	$\pm 1.5\text{dB}$
Voltage Dips and Interruptions	$\pm 3.7\%$
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. 	



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

Address 1: No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: Work statues of EUT



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5 Equipment List

Conducted Emissions at Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2022-03-23	2023-03-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-09	2023-07-08
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-22	2023-09-21
LISN	ETS-LINDGREN	3816/2	SEM007-02	2022-03-23	2023-03-22

Asymmetric Mode Conducted Emissions(150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2022-03-23	2023-03-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-09	2023-07-08
Capacitive Voltage Probe	Schwarzbeck	CVP9222B	SEM009-11	2022-04-08	2023-04-07
Current Sensor Probe	TESEQ	CSP9160A	SEM009-12	2022-09-22	2023-09-21
Impedance Stabilisation Network	SCHWARZBECK MESS-ELEKTRONIK	ISN S8	EMC2122	2022-05-08	2023-05-07
ISN T8-Cat6	Teseq	ISN T8-Cat6	SEM007-12	2022-03-26	2023-03-25
ISN T800	Teseq	ISN T800	SEM007-11	2022-03-26	2023-03-25

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2022-03-22	2023-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-09	2023-07-08

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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-23	2023-03-22
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2023-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2022-09-22	2023-09-21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-09	2023-07-08

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
AC Power Source	California Instruments	5001ix	SEM016-02	2022-04-28	2023-04-27
Power Analyzer	California Instruments	PACS-1	SEM016-01	2022-11-21	2023-11-20
Measurement Software	California Instruments	CTS 4.0 V4.29.0	N/A	N/A	N/A

Electrostatic Discharge					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
ESD Generator	TESEQ AG	NSG 437	SEM019-02	2022-03-25	2023-03-24

Radiated Immunity (80MHz-2.7GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2022-07-09	2023-07-08
Power Sensor	Rohde & Schwarz	NRP-Z91	SEM009-09	2022-03-23	2023-03-22
Stacked Log.-Per.-Broadband Antenna	Schwarzbeck	STLP 9129	SEM003-25	N/A	N/A
Signal Generator	Rohde & Schwarz	SMB100A	SEM006-11	2022-03-22	2023-03-21
Broadband Amplifier	Rohde & Schwarz	BBA150-BC250	SEM005-12	2022-09-22	2023-09-21
Broadband Amplifier	Rohde & Schwarz	BBA150-D110	SEM005-13	2022-03-23	2023-03-22
Broadband Amplifier	Rohde & Schwarz	BBA150-E60	SEM005-16	2022-04-24	2023-04-23
Measurement Software	Rohde & Schwarz	EMC32 V9.25.00	N/A	N/A	N/A



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Electrical Fast Transients & Burst at AC Power Port

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2022-03-22	2023-03-21

Electrical Fast Transients & Burst at Signal Port

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2022-03-22	2023-03-21
Capacitive Coupling Clamp	EM Test	HFK	SEM018-03	2022-03-22	2023-03-21

Surge at AC Power Port

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2022-03-22	2023-03-21

Surge at Signal Port

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2022-03-22	2023-03-21
High Speed Coupling/Decoupling Network	EM Test	CNI 508N2	SEM018-05	2022-04-08	2023-04-07

Conducted Immunity at AC Power Port (150kHz-100MHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	TST PASS	N/A	SEM001-17	2021-11-22	2024-11-21
RF-Generator	SCHAFFNER	NSG 2070	SEM006-01	2022-10-26	2023-10-25
Coupling/Decoupling Network	SCHAFFNER	CDN M016	SEM007-03	2022-04-07	2023-04-06

Conducted Immunity at Signal Port (150kHz-100MHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	TST PASS	N/A	SEM001-17	2021-11-22	2024-11-21
RF-Generator	SCHAFFNER	NSG 2070	SEM006-01	2022-10-26	2023-10-25
Coupling/Decoupling Network	SCHAFFNER	CDN M016	SEM007-03	2022-04-07	2023-04-06
EM Clamp	SCHAFFNER	KEMZ 801	SEM013-01	2022-07-14	2023-07-13

Voltage Dips and Interruptions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2022-03-22	2023-03-21



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	MINGGAO	TH607	SEM002-17	2022-09-13	2023-09-12 EMS/ESD
Humidity/ Temperature Indicator	MINGGAO	TH607	SEM002-18	2022-09-13	2023-09-12 764
Humidity/ Temperature Indicator	MINGGAO	TH607	SEM002-19	2022-09-13	2023-09-12 CI/H/F
Humidity/ Temperature Indicator	MINGGAO	TH607	SEM002-20	2022-09-13	2023-09-12 BCI/CS
Humidity/ Temperature Indicator	MINGGAO	TH607	SEM002-22	2022-09-13	2023-09-12 CE
Humidity/ Temperature Indicator	MINGGAO	TH607	SEM002-23	2022-09-13	2023-09-12 966
Barometer	Shanghai Meteorological Industry Factory	DYM3	SEM002-24	2022-09-13	2023-09-12



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6 Emission Test Results

6.1 Conducted Emissions at Mains Power Port (150kHz-30MHz)

Test Requirement: EN 55032: 2015+A11:2020+A1:2020

Test Method: EN 55032: 2015+A11:2020+A1:2020

Limit:

0.15MHz-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average

0.5MHz-5MHz 56dB(μV) quasi-peak, 46dB(μV) average

5MHz-30MHz 60dB(μV) quasi-peak, 50dB(μV) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

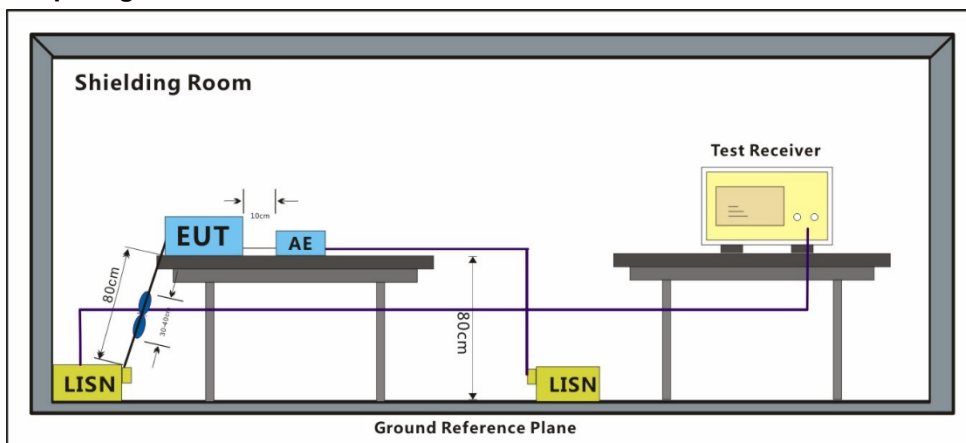
Humidity: 32.3 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Remark: Level= Read Level+ Cable Loss+ LISN Factor



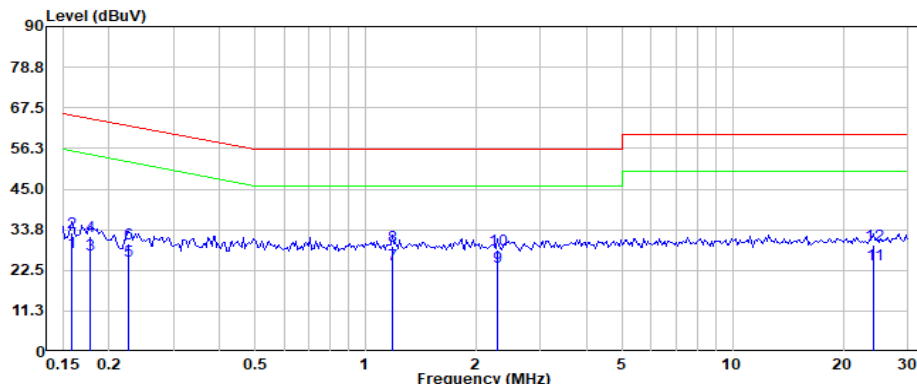
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Test Mode: 01; Line: Live line



Site : Chamber
Condition: Line
Test Mode: 01

	Freq	Read Level	L1SN Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dBuV	dBuV	dB	
1	0.158	8.01	19.56	27.57	55.56	-27.99	Average
2	0.158	13.26	19.56	32.82	65.56	-32.74	QP
3	0.178	7.21	19.56	26.77	54.59	-27.82	Average
4	0.178	12.31	19.56	31.87	64.59	-32.72	QP
5	0.227	5.42	19.56	24.98	52.57	-27.59	Average
6	0.227	10.33	19.56	29.89	62.57	-32.68	QP
7	1.184	4.51	19.58	24.09	46.00	-21.91	Average
8	1.184	9.79	19.58	29.37	56.00	-26.63	QP
9	2.285	3.71	19.59	23.30	46.00	-22.70	Average
10	2.285	8.68	19.59	28.27	56.00	-27.73	QP
11	24.271	4.41	19.75	24.16	50.00	-25.84	Average
12	24.271	9.67	19.75	29.42	60.00	-30.58	QP



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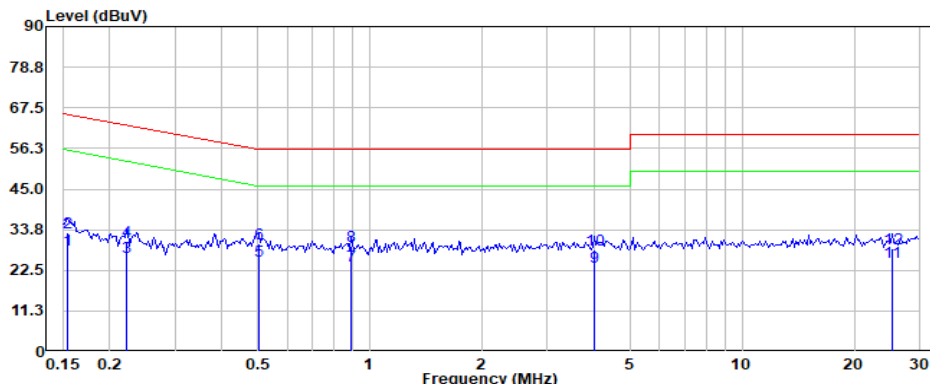
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Test Mode: 01; Line: Neutral Line



Site : Chamber
Condition: Neutral
Test Mode: 01

	Freq	Read Level	LISN Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.155	8.65	19.56	0.00	28.21	55.74	-27.53	Average
2	0.155	13.47	19.56	0.00	33.03	65.74	-32.71	QP
3	0.222	6.57	19.56	0.00	26.13	52.74	-26.61	Average
4	0.222	10.87	19.56	0.00	30.43	62.74	-32.31	QP
5	0.502	5.47	19.57	0.00	25.04	46.00	-20.96	Average
6	0.502	10.32	19.57	0.00	29.89	56.00	-26.11	QP
7	0.890	4.31	19.58	0.00	23.89	46.00	-22.11	Average
8	0.890	9.67	19.58	0.00	29.25	56.00	-26.75	QP
9	4.006	3.67	19.64	0.00	23.31	46.00	-22.69	Average
10	4.006	8.58	19.64	0.00	28.22	56.00	-27.78	QP
11	25.321	4.99	19.72	0.00	24.71	50.00	-25.29	Average
12	25.321	8.89	19.72	0.00	28.61	60.00	-31.39	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN 55032: 2015+A11:2020+A1:2020

Test Method: EN 55032: 2015+A11:2020+A1:2020

Limit:

Test Distance: 3m
 30MHz-230MHz: 40 dB(μV/m) quasi-peak
 230MHz-1GHz: 47 dB(μV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz

Test Distance: 10m
 30MHz-230MHz: 30 dB(μV/m) quasi-peak
 230MHz-1GHz: 37 dB(μV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz
 Highest internal frequency (Fx): $F_x \leq 108\text{MHz}$
 Highest measured frequency: 1GHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 15.9 °C Humidity: 33.4 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working : Power by battery and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

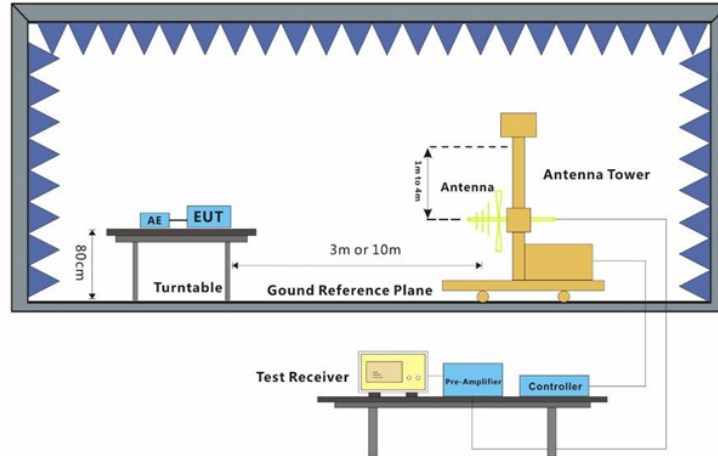


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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



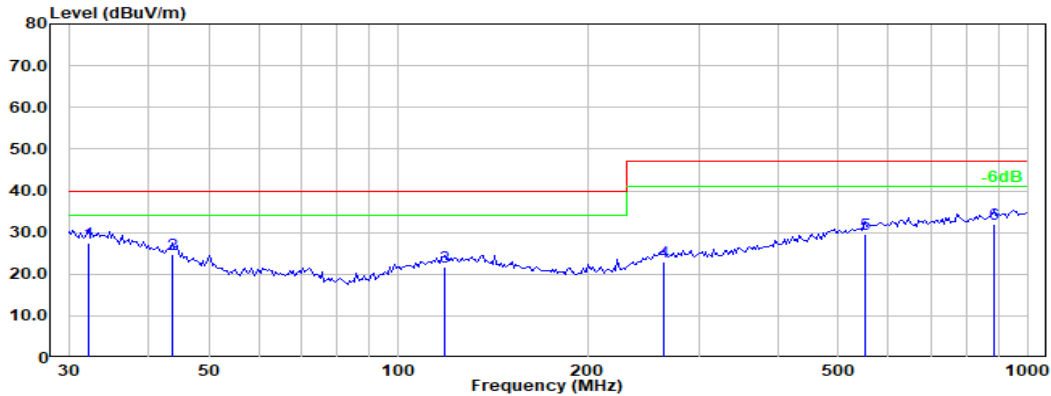
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Test Mode: 00; Polarity: Horizontal;



Site : Chamber
Condition: Horizontal
Test Mode: 00

	Freq	Read Level	Cable Loss	Ant Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	32.179	2.47	0.25	24.88	27.60	40.00	-12.40	QP
2	43.812	4.52	0.37	19.97	24.86	40.00	-15.14	QP
3	118.601	2.38	0.90	18.41	21.69	40.00	-18.31	QP
4	263.819	2.04	1.26	19.76	23.06	47.00	-23.94	QP
5	550.948	2.39	2.19	25.06	29.64	47.00	-17.36	QP
6	881.407	2.47	2.33	27.06	31.86	47.00	-15.14	QP



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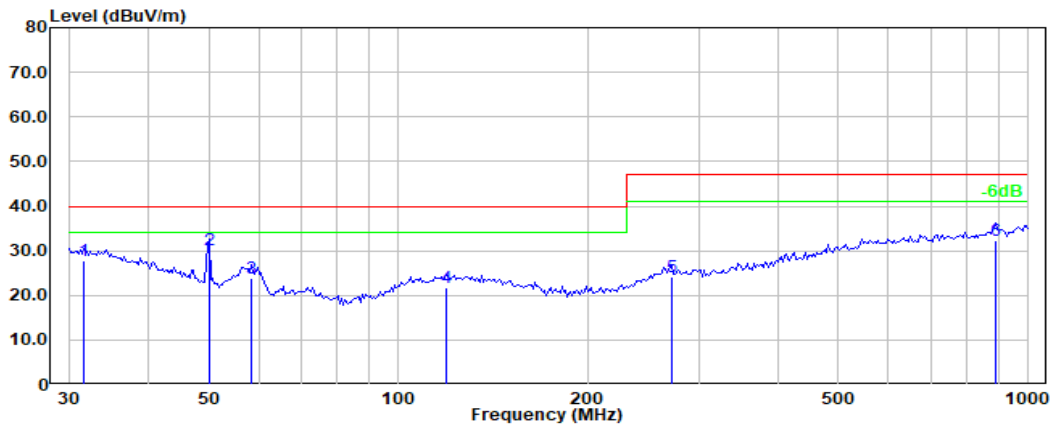
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Test Mode: 00; Polarity: Vertical;



Site : Chamber
Condition: Vertical
Test Mode: 00

	Freq	Read Level	Cable Loss	Ant Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	31.731	2.58	0.24	24.90	27.72	40.00	-12.28	QP
2	50.057	12.38	0.33	17.39	30.10	40.00	-9.90	QP
3	58.407	8.57	0.65	14.54	23.76	40.00	-16.24	QP
4	119.436	2.38	0.91	18.44	21.73	40.00	-18.27	QP
5	271.325	3.74	1.28	19.05	24.07	47.00	-22.93	QP
6	887.610	2.87	2.37	27.02	32.26	47.00	-14.74	QP



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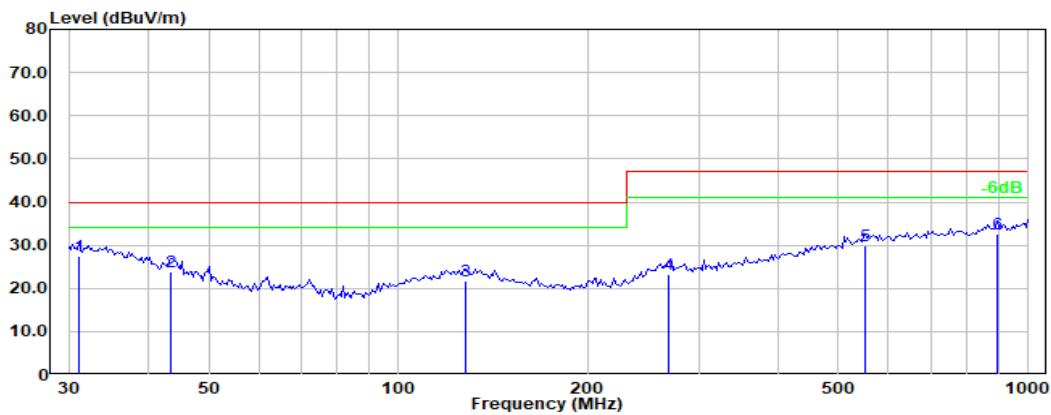
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Test Mode: 01; Polarity: Horizontal;



Site : Chamber
Condition: Horizontal
Test Mode: 01

	Freq	Read Level	Cable Loss	Ant Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	31.071	2.38	0.23	24.89	27.50	40.00	-12.50	QP
2	43.506	3.48	0.38	20.10	23.96	40.00	-16.04	QP
3	128.113	2.30	0.97	18.47	21.74	40.00	-18.26	QP
4	269.428	2.61	1.27	19.23	23.11	47.00	-23.89	QP
5	550.948	2.49	2.19	25.06	29.74	47.00	-17.26	QP
6	893.857	3.21	2.41	27.13	32.75	47.00	-14.25	QP



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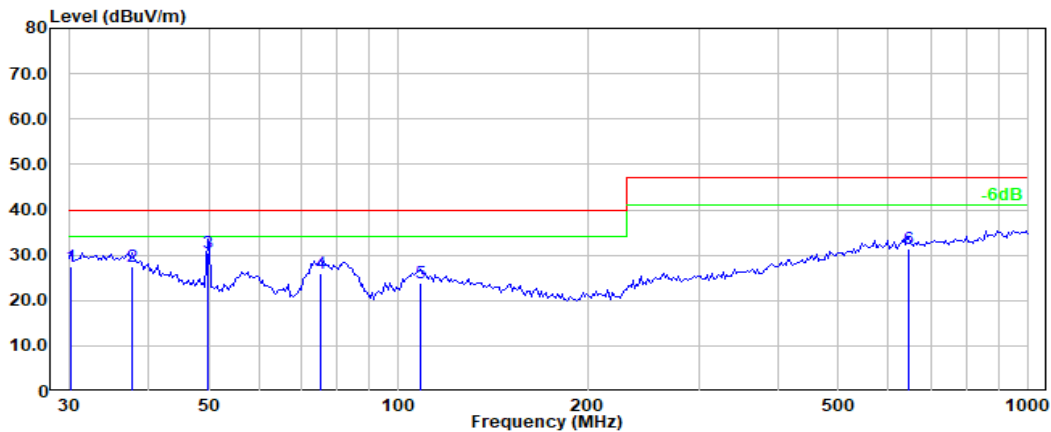
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Test Mode: 01; Polarity: Vertical;



Site : Chamber
Condition: Vertical
Test Mode: 01

	Freq	Read Level	Cable Loss	Ant Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	30.211	2.32	0.21	25.01	27.54	40.00	-12.46	QP
2	37.812	4.38	0.36	22.85	27.59	40.00	-12.41	QP
3	49.707	12.49	0.33	17.53	30.35	40.00	-9.65	QP
4	75.182	10.92	0.75	14.25	25.92	40.00	-14.08	QP
5	108.267	5.62	0.83	17.41	23.86	40.00	-16.14	QP
6	647.386	3.49	2.37	25.40	31.26	47.00	-15.74	QP



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6.3 Radiated Emissions (Above 1GHz)

Test Requirement: EN 55032: 2015+A11:2020+A1:2020

Test Method: EN 55032: 2015+A11:2020+A1:2020

Limit:

1000MHz-6000MHz: 74 dB(μV/m) peak; 54 dB(μV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000MHz to 6000MHz

Highest internal frequency (Fx):

Highest measured frequency:

Fx ≤ 108MHz 1GHz

108MHz < Fx ≤ 500MHz 2GHz

500MHz < Fx ≤ 1GHz 5GHz

Fx > 1GHz 5 × Fx up to a maximum of 6GHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 17.0 °C

Humidity: 37.1 % RH

Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working : Power by battery and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

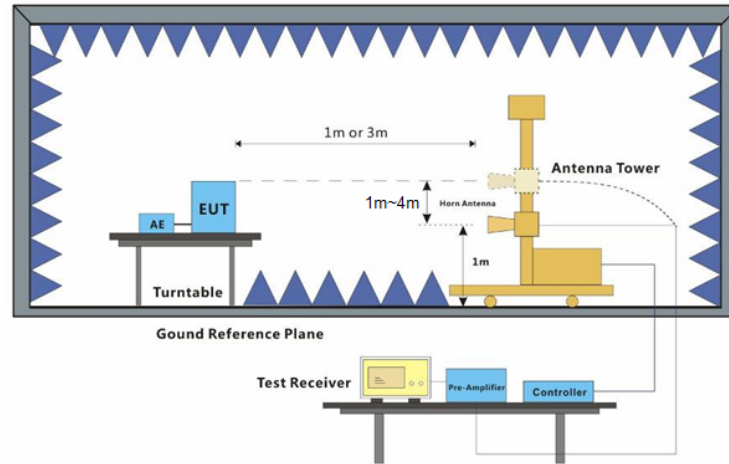


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6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Frequency range: Above 1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



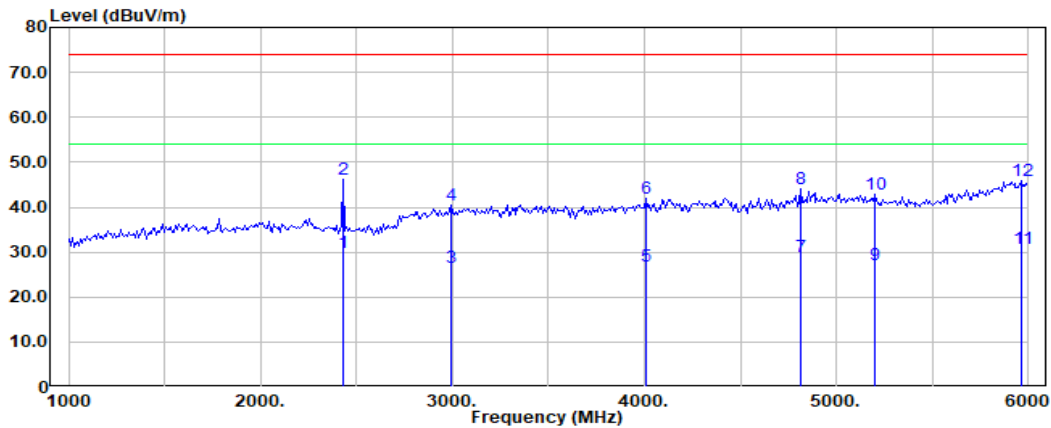
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Test Mode: 00; Polarity: Horizontal;



Site : Chamber
Condition: Horizontal
Test Mode: 00

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2426.282	47.48	26.94	6.14	50.72	29.84	54.00	-24.16	Average
2	2426.282	63.73	26.94	6.14	50.72	46.09	74.00	-27.91	Peak
3	2995.192	42.21	28.09	6.95	50.78	26.47	54.00	-27.53	Average
4	2995.192	56.25	28.09	6.95	50.78	40.51	74.00	-33.49	Peak
5	4004.808	40.38	29.20	8.70	51.33	26.95	54.00	-27.05	Average
6	4004.808	55.28	29.20	8.70	51.33	41.85	74.00	-32.15	Peak
7	4814.103	39.91	31.05	8.90	51.01	28.85	54.00	-25.15	Average
8	4814.103	55.21	31.05	8.90	51.01	44.15	74.00	-29.85	Peak
9	5198.718	36.89	31.61	9.53	50.98	27.05	54.00	-26.95	Average
10	5198.718	52.78	31.61	9.53	50.98	42.94	74.00	-31.06	Peak
11	5967.949	37.62	32.46	9.75	49.08	30.75	54.00	-23.25	Average
12	5967.949	52.62	32.46	9.75	49.08	45.75	74.00	-28.25	Peak



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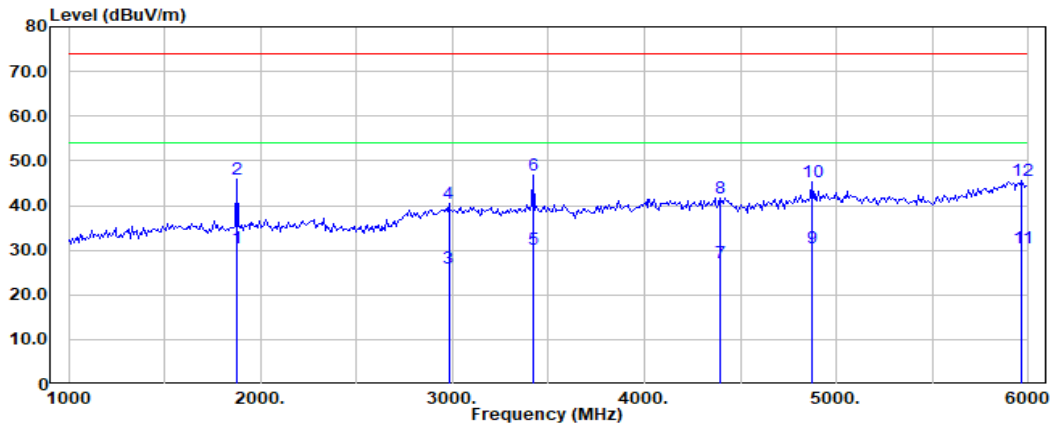
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Test Mode: 00; Polarity: Vertical;



Site : Chamber
Condition: Vertical
Test Mode: 00

	Freq	Read Level	Ant Factor	Cable Loss	Preampl Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1873.397	50.41	25.30	5.59	50.92	30.38	54.00	-23.62	Average
2	1873.397	65.78	25.30	5.59	50.92	45.75	74.00	-28.25	Peak
3	2979.167	41.78	28.07	6.95	50.80	26.00	54.00	-28.00	Average
4	2979.167	56.17	28.07	6.95	50.80	40.39	74.00	-33.61	Peak
5	3419.872	45.41	28.15	7.70	51.02	30.24	54.00	-23.76	Average
6	3419.872	61.82	28.15	7.70	51.02	46.65	74.00	-27.35	Peak
7	4397.436	39.46	30.11	8.70	51.08	27.19	54.00	-26.81	Average
8	4397.436	54.00	30.11	8.70	51.08	41.73	74.00	-32.27	Peak
9	4870.192	41.27	31.18	8.90	50.98	30.37	54.00	-23.63	Average
10	4870.192	56.06	31.18	8.90	50.98	45.16	74.00	-28.84	Peak
11	5967.949	37.38	32.46	9.75	49.08	30.51	54.00	-23.49	Average
12	5967.949	52.53	32.46	9.75	49.08	45.66	74.00	-28.34	Peak



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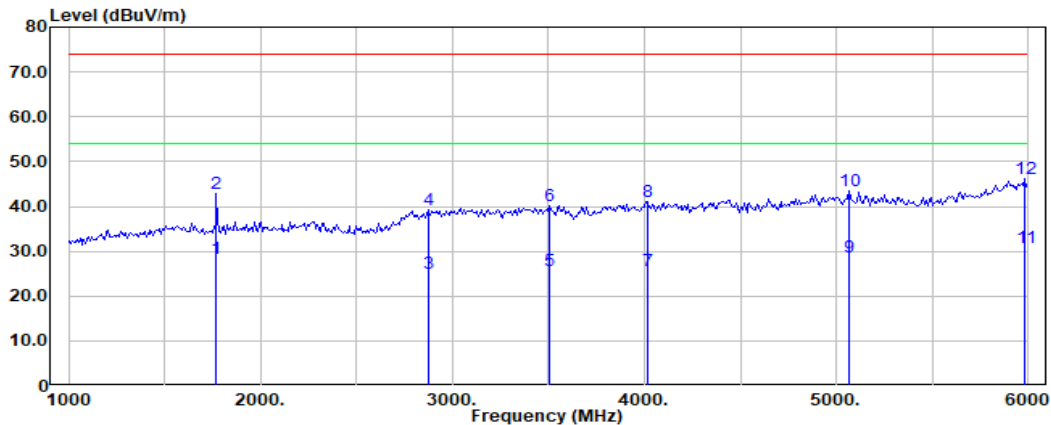
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Test Mode: 01; Polarity: Horizontal;



Site : Chamber
Condition: Horizontal
Test Mode: 01

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1769.231	48.69	25.25	5.59	51.44	28.45	54.00	-25.55	Average
2	1769.231	63.03	25.25	5.59	51.44	42.79	74.00	-31.21	Peak
3	2875.000	41.28	27.88	6.95	50.94	25.17	54.00	-28.83	Average
4	2875.000	55.36	27.88	6.95	50.94	39.25	74.00	-34.75	Peak
5	3508.013	40.56	28.18	7.70	50.92	25.52	54.00	-28.48	Average
6	3508.013	55.24	28.18	7.70	50.92	40.20	74.00	-33.80	Peak
7	4012.821	39.06	29.22	8.70	51.32	25.66	54.00	-28.34	Average
8	4012.821	54.55	29.22	8.70	51.32	41.15	74.00	-32.85	Peak
9	5070.513	38.98	31.52	9.53	51.33	28.70	54.00	-25.30	Average
10	5070.513	53.78	31.52	9.53	51.33	43.50	74.00	-30.50	Peak
11	5983.974	37.56	32.49	9.75	49.04	30.76	54.00	-23.24	Average
12	5983.974	52.88	32.49	9.75	49.04	46.08	74.00	-27.92	Peak



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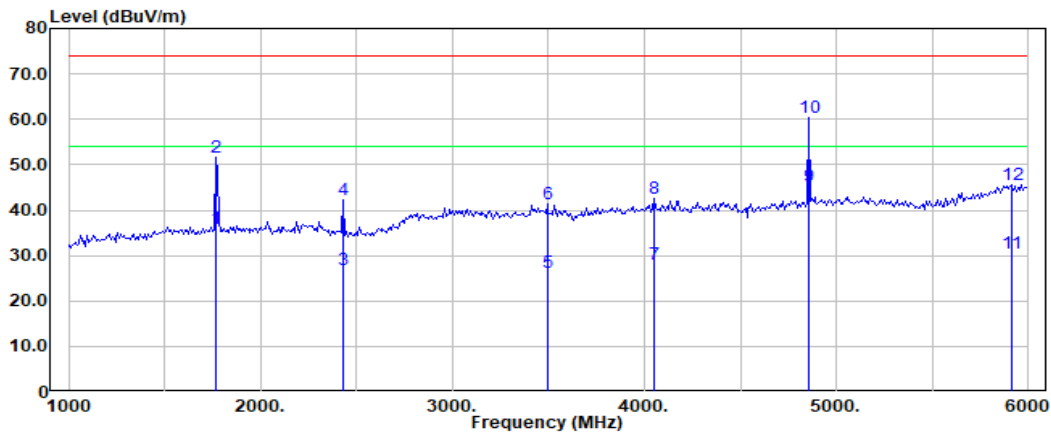
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Test Mode: 01; Polarity: Vertical;



Site : Chamber
Condition: Vertical
Test Mode: 01

	Freq	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1769.231	56.31	25.25	5.59	51.08	36.07	54.00	-17.93	Average
2	1769.231	71.99	25.25	5.59	51.08	51.75	74.00	-22.25	Peak
3	2426.282	44.60	26.94	6.95	51.53	26.96	54.00	-27.04	Average
4	2426.282	59.88	26.94	6.95	51.53	42.24	74.00	-31.76	Peak
5	3491.987	41.44	28.16	7.70	50.93	26.37	54.00	-27.63	Average
6	3491.987	56.44	28.16	7.70	50.93	41.37	74.00	-32.63	Peak
7	4052.885	41.38	29.31	8.70	51.30	28.09	54.00	-25.91	Average
8	4052.885	55.91	29.31	8.70	51.30	42.62	74.00	-31.38	Peak
9	4854.167	56.16	31.14	8.90	50.99	45.21	54.00	-08.79	Average
10	4854.167	71.30	31.14	8.90	50.99	60.35	74.00	-13.65	Peak
11	5911.859	37.68	32.39	9.75	49.24	30.58	54.00	-23.42	Average
12	5911.859	52.56	32.39	9.75	49.24	45.46	74.00	-28.54	Peak



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6.4 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3: 2013+ A1:2019+A2:2021

Test Method: EN 61000-3-3: 2013+ A1:2019+A2:2021

6.4.1 E.U.T. Operation

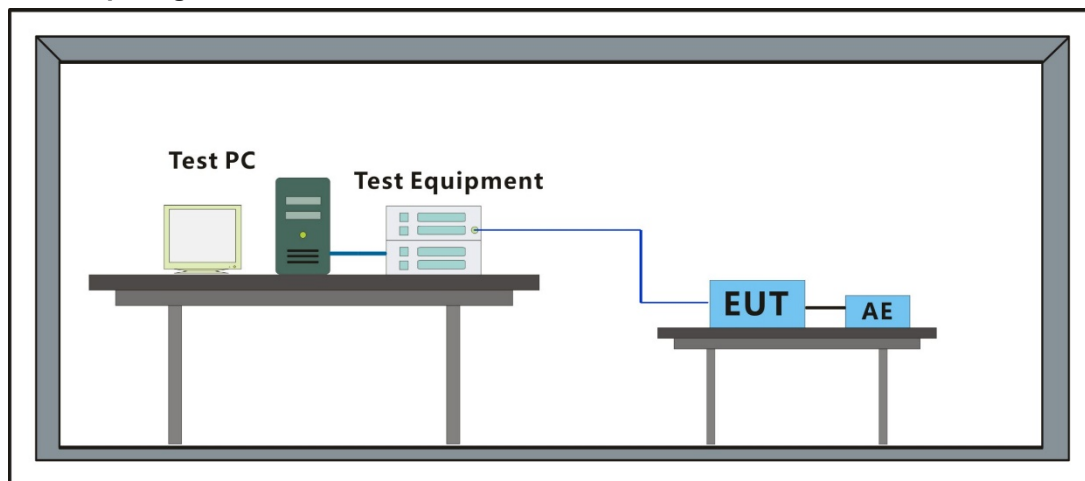
Operating Environment:

Temperature: 20.6 °C Humidity: 31.4 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

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Test Mode:01

Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.17

Highest dt (%):

T-max (mS): 0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.248

Highest Plt (2 hr. period): 0.108

Test limit (%):

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass

Test limit: 0.650 Pass



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6.5 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019+A1:2021

Test Method: EN IEC 61000-3-2: 2019+A1:2021

There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with EN IEC 61000-3-2:2019.

For further details, please refer to Clause 7 of EN IEC 61000-3-2:2019 which states:

“For the following categories of equipment, limits are not specified in this standard.

- equipment with a rated power of 75W or less, other than lighting equipment”



7 Immunity Test Results

Performance Criteria Description in EN 50130-4:2011 +A1:2014

There shall be no damage, malfunction or change of status due to the conditioning. Flickering of an indicator during the application of the discharges is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change.

For further details, please refer to Clause 7.4, 8.4, 9.4, 10.4, 11.4, 12.4 and 13.4, of EN 50130-4.

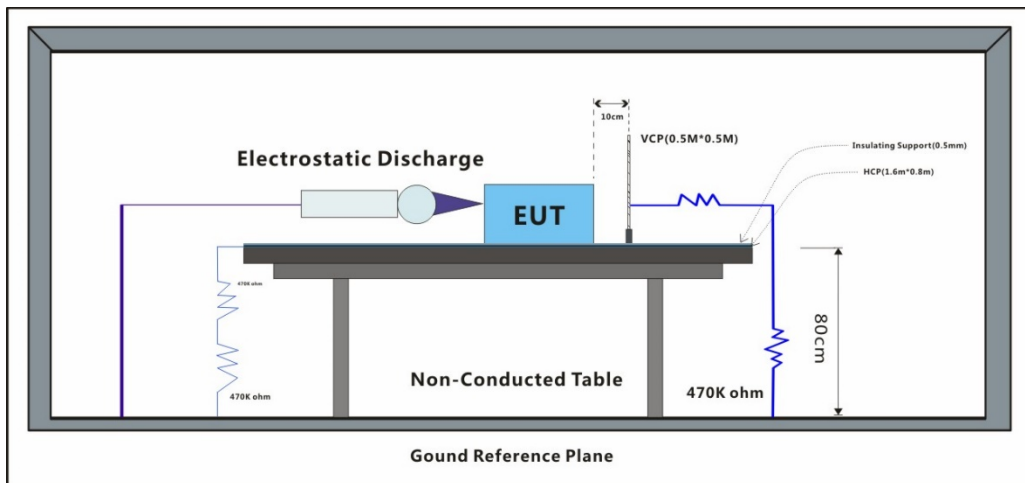


7.1 Electrostatic Discharge

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working : Power by battery and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

7.1.4 Test Condition and Results:

Number of Discharge: Minimum 10 times at each test point for Air Discharge; Minimum 50 times at each test point for Contact or VCP & HCP Discharge

Discharge Mode: Single Discharge

Discharge Period: 1 second minimum

Test Point 1: All insulated enclosure & seams.

Test Point 2: All accessible metal parts of the enclosure.

Test Point 3: All sides.



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Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	6	+	2	A
Contact Discharge	6	-	2	A
Horizontal Coupling	6	+	3	A
Horizontal Coupling	6	-	3	A
Vertical Coupling	6	+	3	A
Vertical Coupling	6	-	3	A
A: No degradation in the performance of the EUT was observed				



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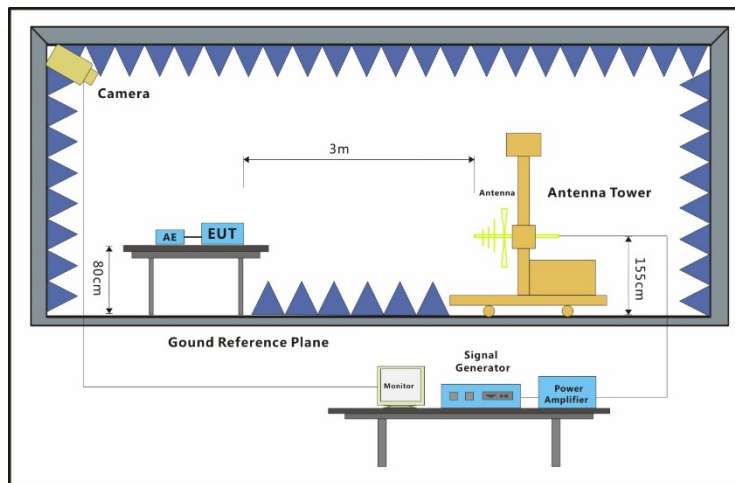
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7.2 Radiated Immunity(80MHz-2.7GHz)

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN IEC 61000-4-3: 2020

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 17.0 °C

Humidity: 37.1 % RH

Atmospheric Pressure: 1010 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working : Power by battery and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

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7.2.4 Test Condition and Results:

Modulation: 80%, 1 kHz Amplitude Modulation & 0.5s ON 0.5s OFF Pulse Modulation

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-2.7GHz	10	Front	3s	A
80MHz-2.7GHz	10	Back	3s	A
80MHz-2.7GHz	10	Left	3s	A
80MHz-2.7GHz	10	Right	3s	A
80MHz-2.7GHz	10	Top	3s	A
80MHz-2.7GHz	10	Underside	3s	A

A: No degradation in the performance of the EUT was observed



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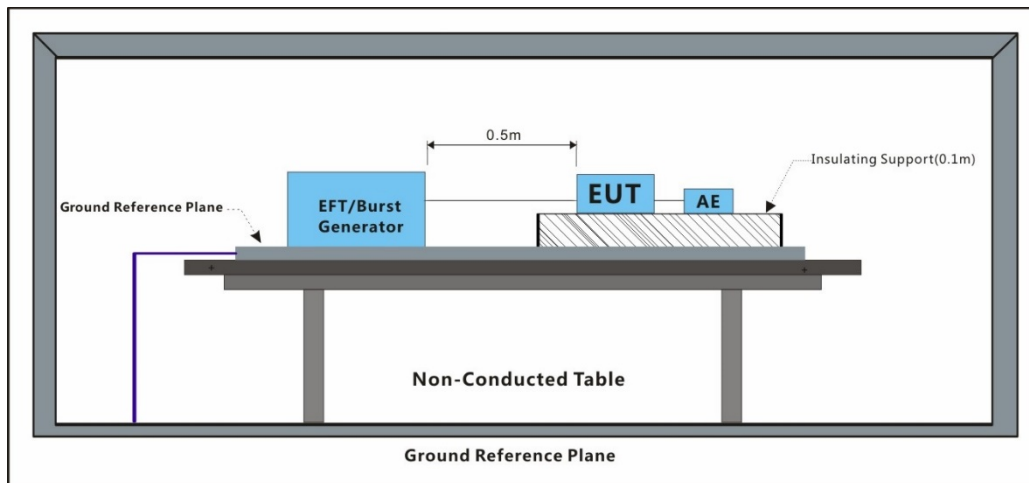
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7.3 Electrical Fast Transients & Burst at AC Power Port

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN 61000-4-4:2012

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

7.3.4 Test Condition and Results:

Repetition Frequency: 100kHz

Burst Period: 300ms

Test Duration: 1 minute per level & polarity

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	2	+	CDN	A
AC power port	2	-	CDN	A

A: No degradation in the performance of the EUT was observed



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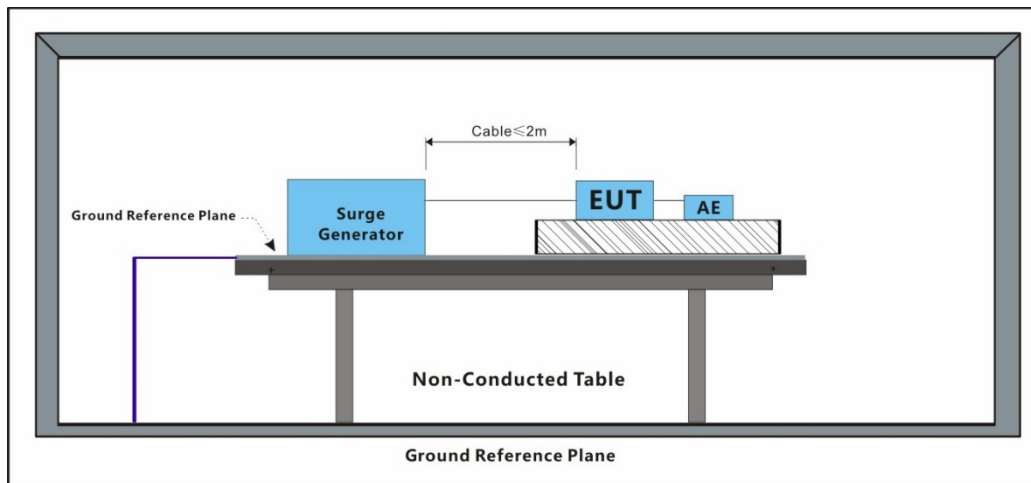
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7.4 Surge at AC Power Port

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN 61000-4-5:2014 +A1:2017

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.



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7.4.4 Test Condition and Results:

Interval: 60s between each surge

No. of surges: 5 positive, 5 negative

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	0.5,1	+	0°	A
L-N	0.5,1	-	0°	A
L-N	0.5,1	+	90°	A
L-N	0.5,1	-	90°	A
L-N	0.5,1	+	180°	A
L-N	0.5,1	-	180°	A
L-N	0.5,1	+	270°	A
L-N	0.5,1	-	270°	A

A: No degradation in the performance of the EUT was observed



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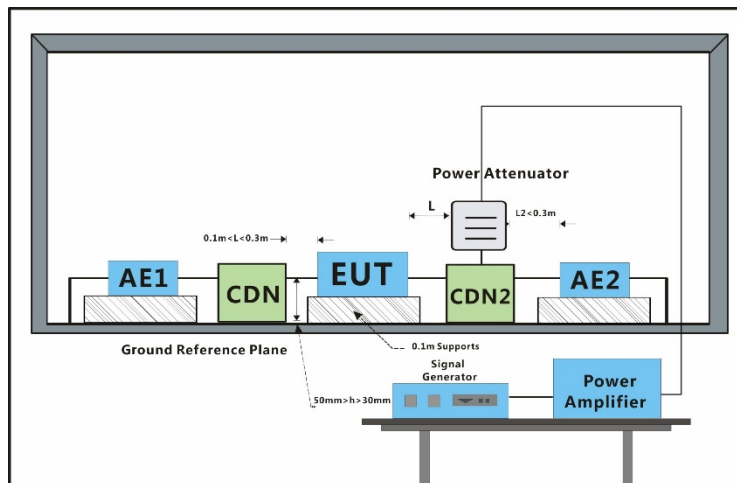
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7.5 Conducted Immunity at Power Port (150kHz-100MHz)

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN 61000-4-6:2014

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

7.5.4 Test Condition and Results:

Modulation: 80%, 1 kHz Amplitude Modulation & 0.5s ON 0.5s OFF Pulse Modulation

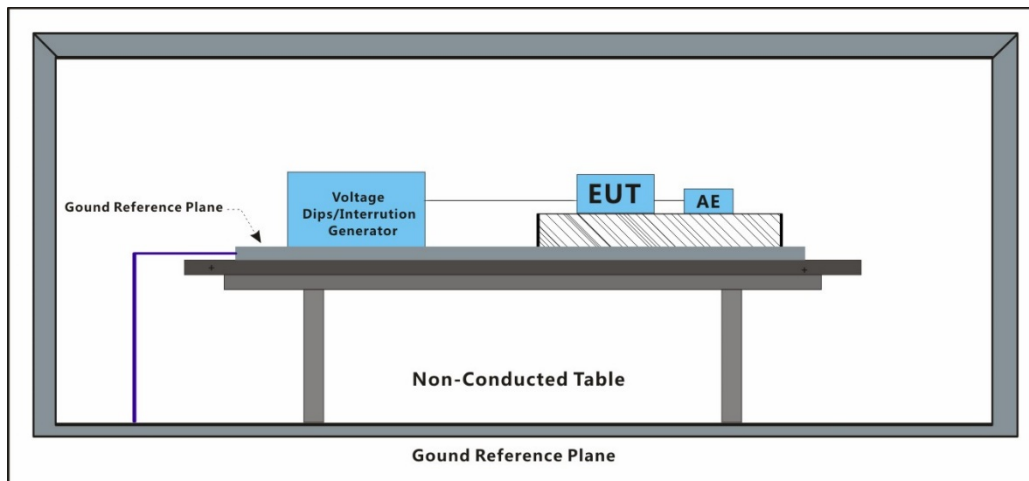
Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	10	CDN	3s	A
A: No degradation in the performance of the EUT was observed				

7.6 Voltage Dips and Interruptions

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN IEC 61000-4-11:2020

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.



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7.6.4 Test Condition and Results:

Performance Criterion:

0% of UT (Supply Voltage) for 250 Periods;

40% of UT for 10 Periods;

70% of UT for 25 Periods; 80% of UT for 250 Periods;

No. of Dips / Interruptions: 3 per Level

Time between dropout 10s

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
80	0°	250 Cycles	3	A
80	180°	250 Cycles	3	A
70	0°	25 Cycles	3	A
70	180°	25 Cycles	3	A
40	0°	10 Cycles	3	A
40	180°	10 Cycles	3	A
0	0°	250 Cycles	3	B
0	180°	250 Cycles	3	B

A: No degradation in the performance of the EUT was observed

B: During the test,the EUT working abnormally.

After the test,the EUT automatically recovering working normally.



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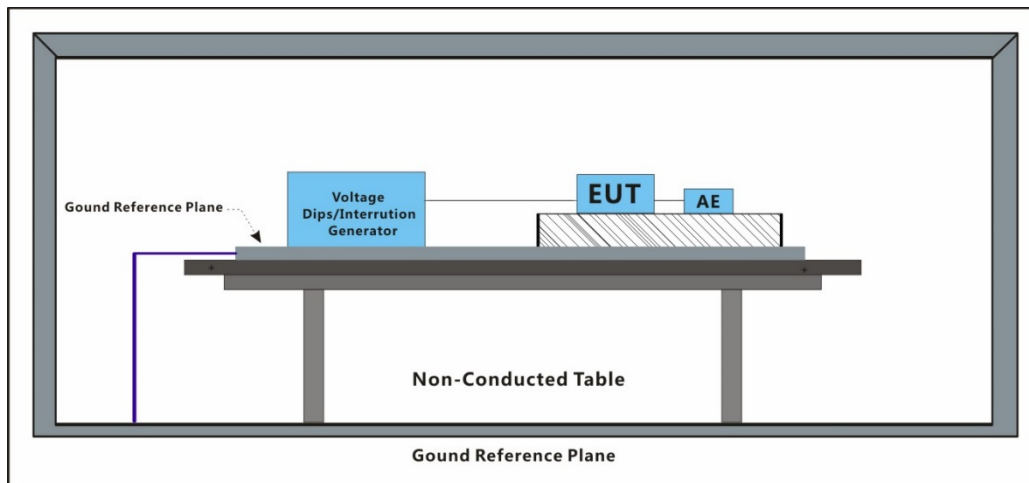
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7.7 Mains Supply Voltage Variations

Test Requirement: EN 50130-4: 2011 +A1:2014

Test Method: EN 50130-4:2011+A1:2014

7.7.1 Test Setup Diagram



7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.7.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Normal working : Power by adapter and establish the communication between EUT and mobile phone and use the "APP" in mobile phone to control EUT working continuously.

7.7.4 Test Condition and Results:

Voltage max.: AC 264V (Umax: Unom + 10%)

Voltage min.: AC 85V (Umin: Unom - 15%)

Unom Voltage: AC 100-240V

Test phenomenon description for the EUT:

1. The EUT working normal, before the conditioning.
 2. Monitor the EUT during the conditioning period and detected no any changes in states, during the conditioning.
 3. No degradation in the performance of the EUT was observed, after the conditioning.
- A: No degradation in the performance of the EUT was observed

8 Test Setup Photo

Electrostatic Discharge



Radiated Immunity(80MHz-2.7GHz)



Electrical Fast Transients & Burst at AC Power Port



Surge at AC Power Port



Conducted Immunity at Power Port (150kHz-100MHz)



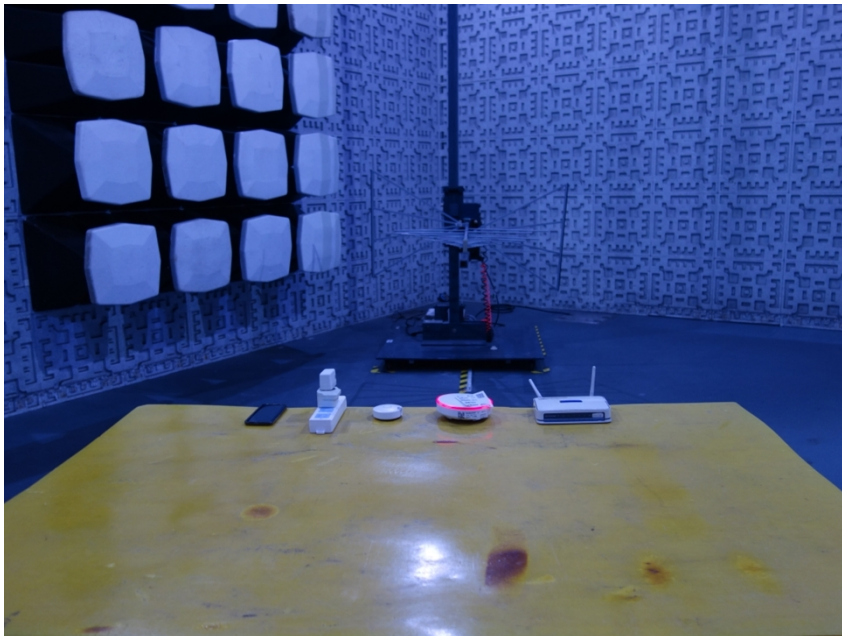
Voltage Dips and Interruptions



Mains Supply Voltage Variations



Radiated Emissions (30MHz-1GHz)



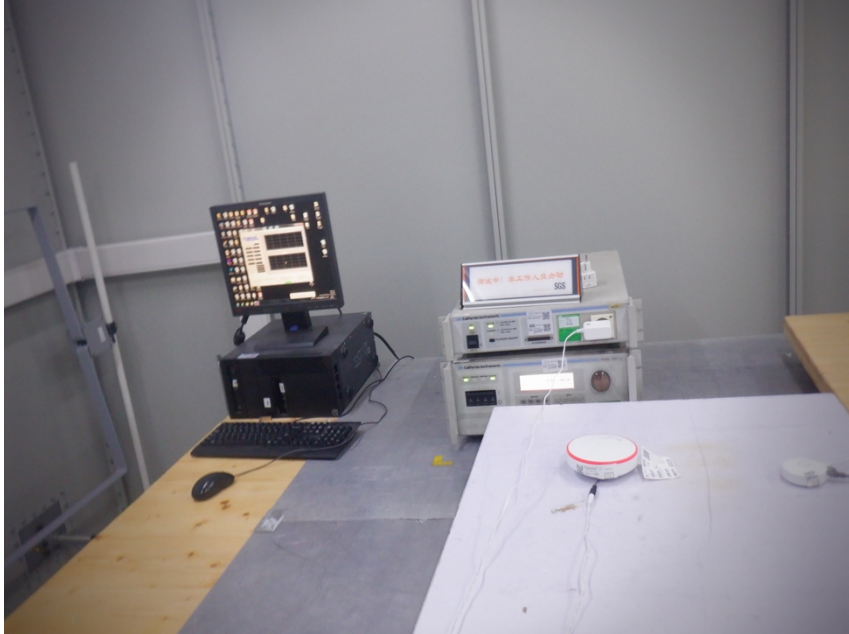
Radiated Emissions (Above 1GHz)



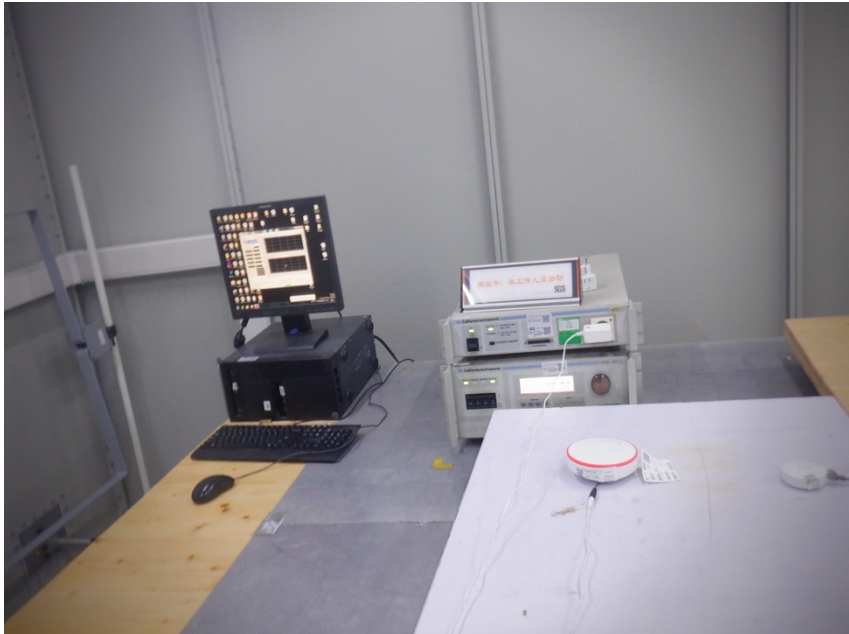
Conducted Emissions at Mains Power Port (150kHz-30MHz)



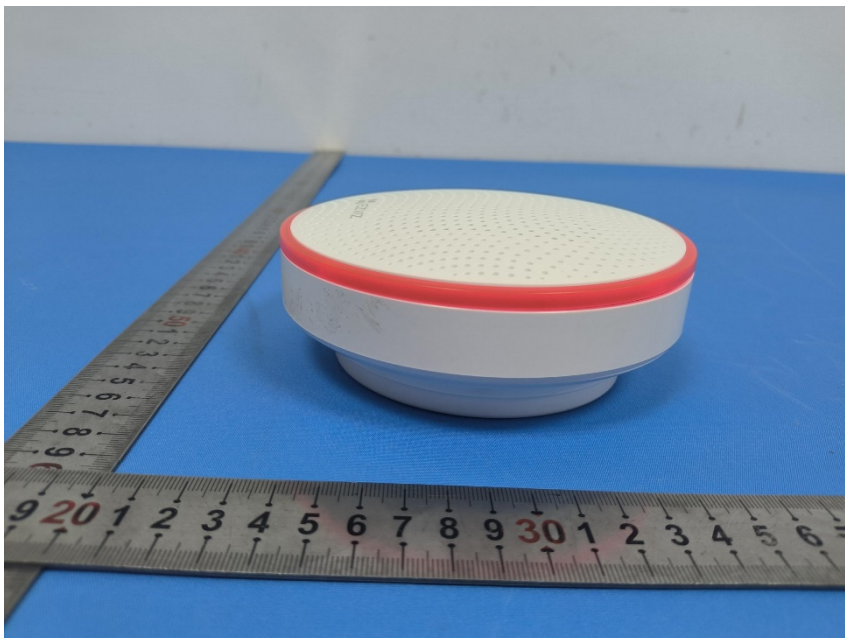
Voltage Fluctuations and Flicker



Harmonic Current Emission



9 EUT Constructional Details (EUT Photos)

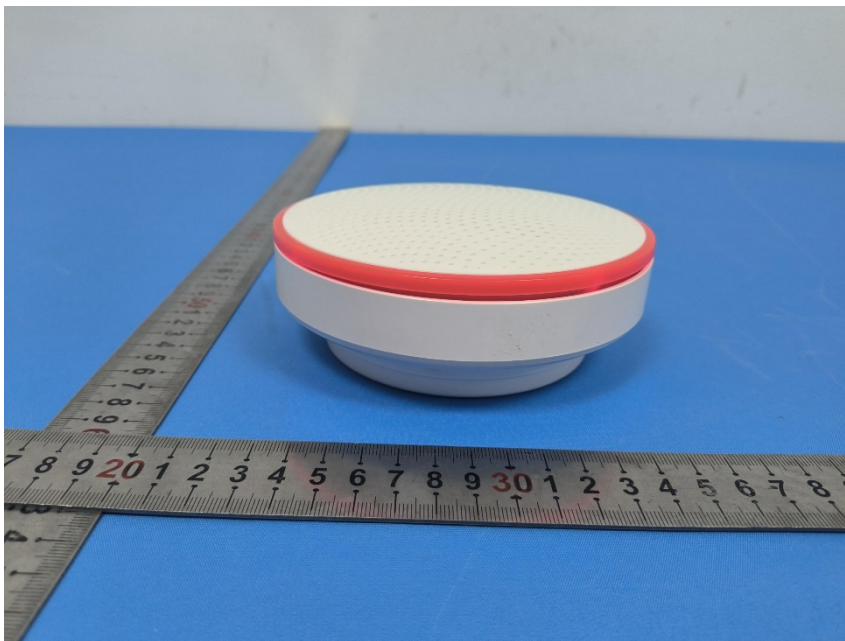
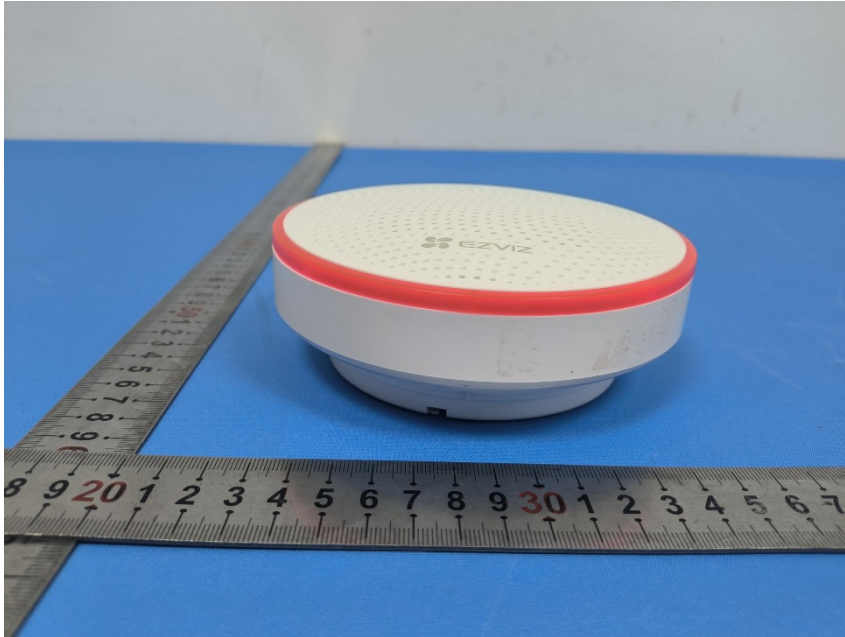


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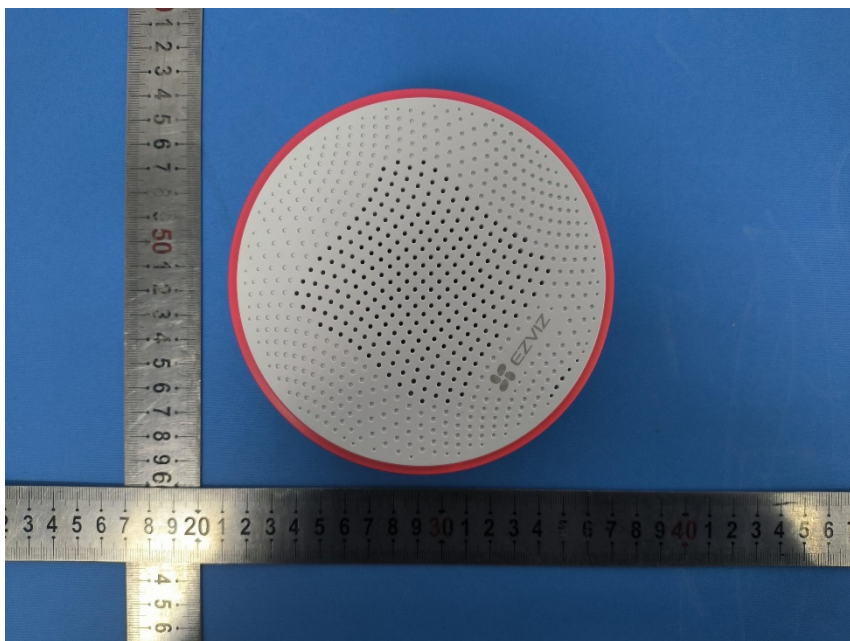
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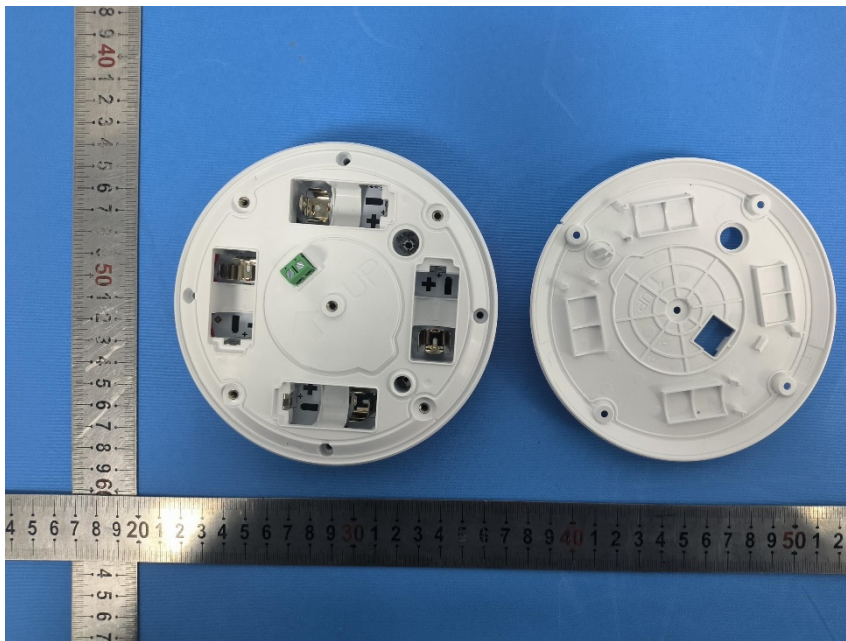
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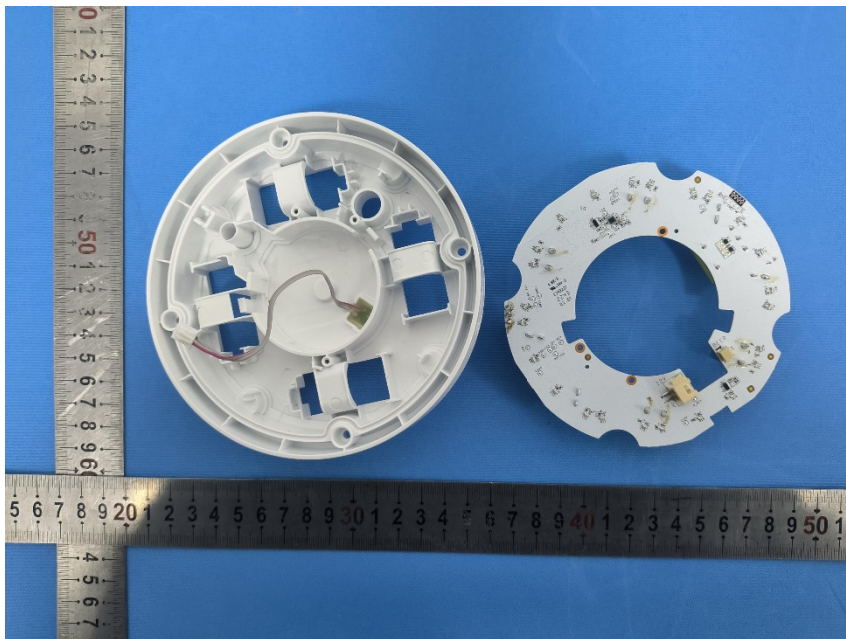
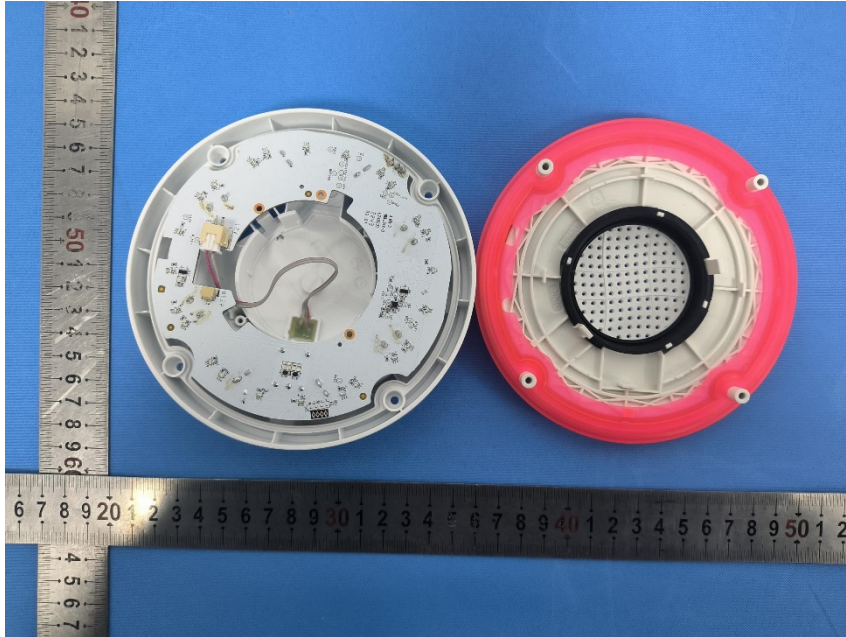
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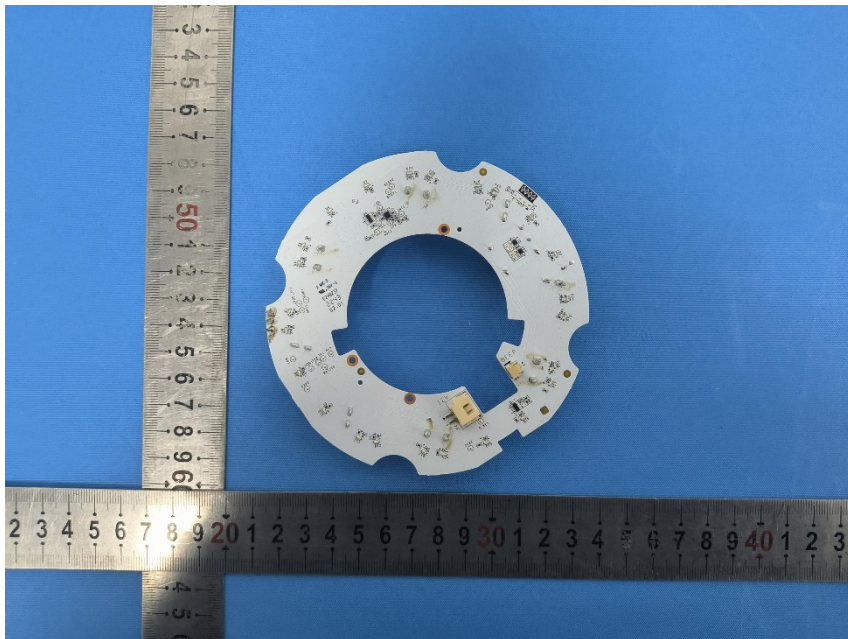
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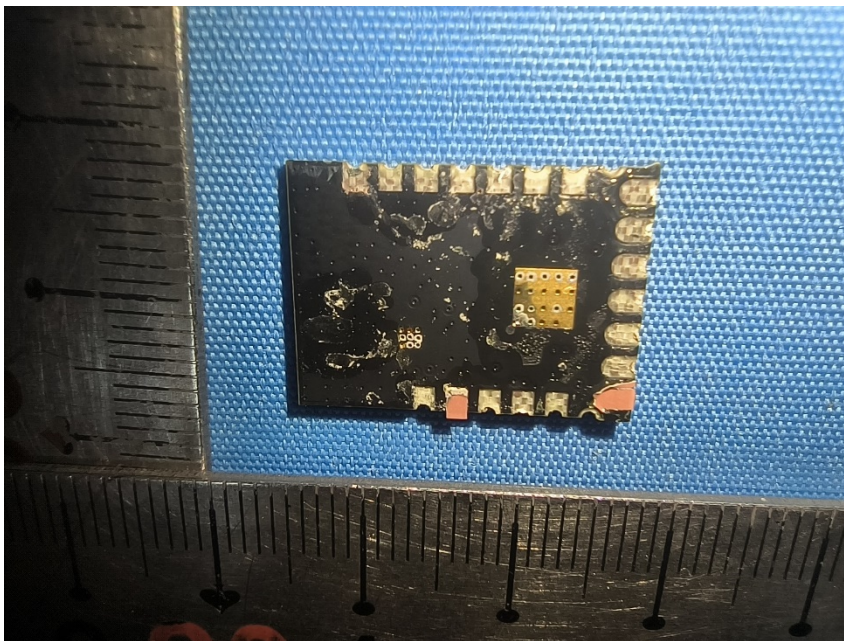
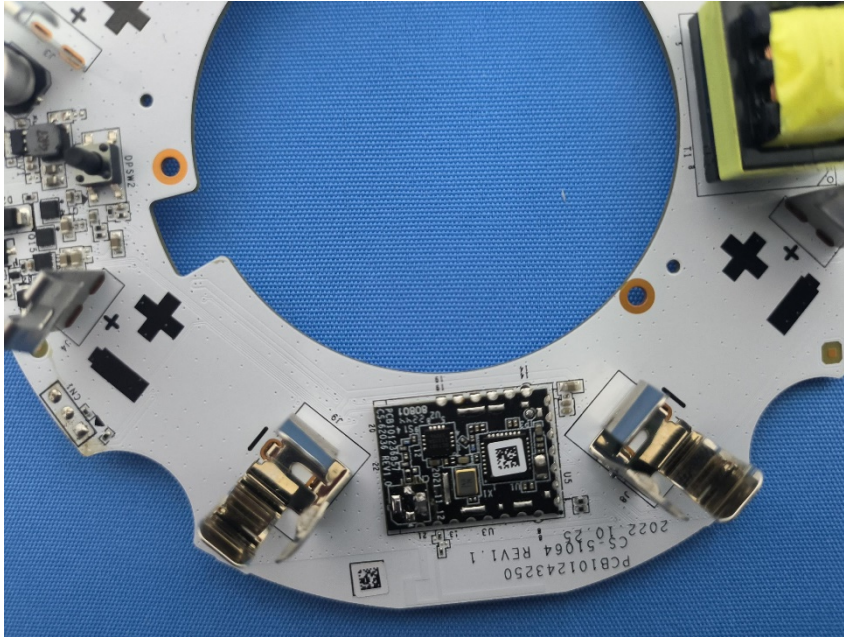


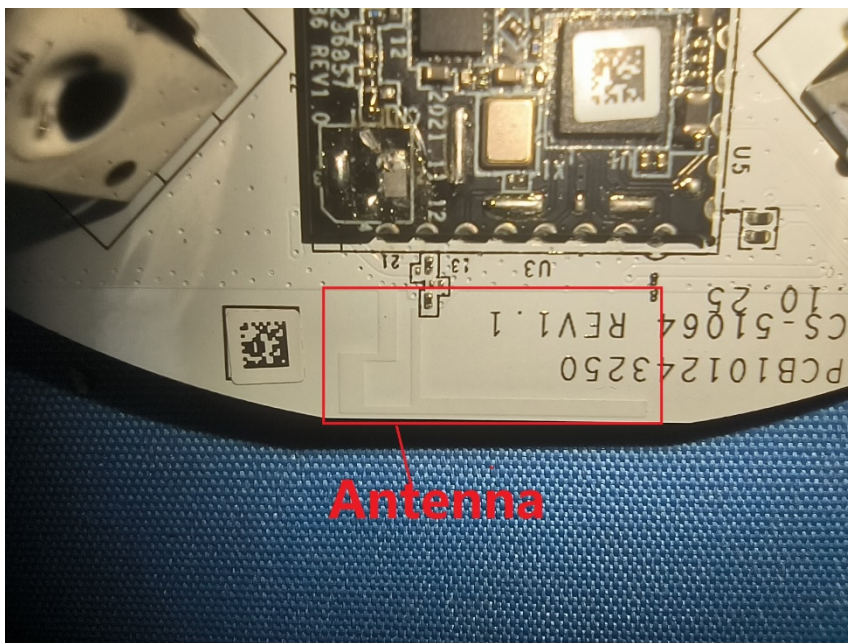
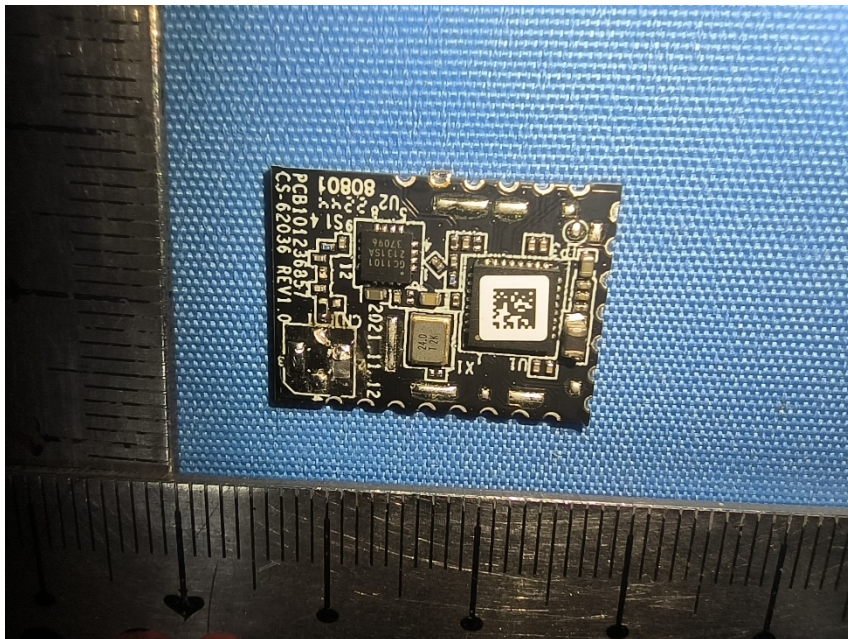
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