EMC Test Report

Certificate No.	:	TBR-C-202403-0337-1
Applicant	:	AVS(NINGBO) INDUSTRIAL CO.,LTD.
Equipment Under Test (EUT)		
EUT Name	:	Weatherproof Sound Bar
Model No.	:	PSB11
Series Model No.	:	----
Brand Name	:	RECOIL
Receipt Date	:	2024-03-28
Test Date	:	2024-03-28 to 2024-04-08
Issue Date	:	2024-04-08
Standards	:	CISPR 32:2015/AMD1:2019 ED2 CISPR 35:2016
Conclusions	:	**PASS**
Test By	:	Ming Yu
Reviewed By	:	Joy Yang
Approved By	:	Ivan Su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

1 A/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District,Shenzhen, Guangdong, China
Tel: +86 75526509301 Fax: +86 75526509195

TABLE OF CONTENTS

Revision History

Report No.	Version	Description	Issued Date
TBR-C-202403-0337-1	Rev.01	Initial issue of report	2024-04-08

1. General Information

1.1. Client Information

Applicant	:	AVS(NINGBO) INDUSTRIAL CO.,LTD.
Address	:	7TH BUILDING, NO.59 CHANUG FU ROAD, IAO GANG INDUSTRIAL ZONE, NINGBO 315800, CHINA
Manufacturer	:	AVS(NINGBO) INDUSTRIAL CO.,LTD.
Address	:	7TH BUILDING, NO.59 CHANUG FU ROAD, IAO GANG INDUSTRIAL ZONE, NINGBO 315800, CHINA

1.2. General Description of EUT (Equipment Under Test)

EUT Name	:	Weatherproof Sound Bar
Model(s)	:	PSB11
Model Difference	:	----
Brand Name	:	RECOIL
Class of EUT	:	☐ Class A ☒ Class B
EUT Type	:	☒ Table top ☐ Floor standing ☐ combination
F_X	:	N/A
Power Supply	:	DC 12V
F_X: Highest internal frequency.		

1.3. Description of Operating Mode

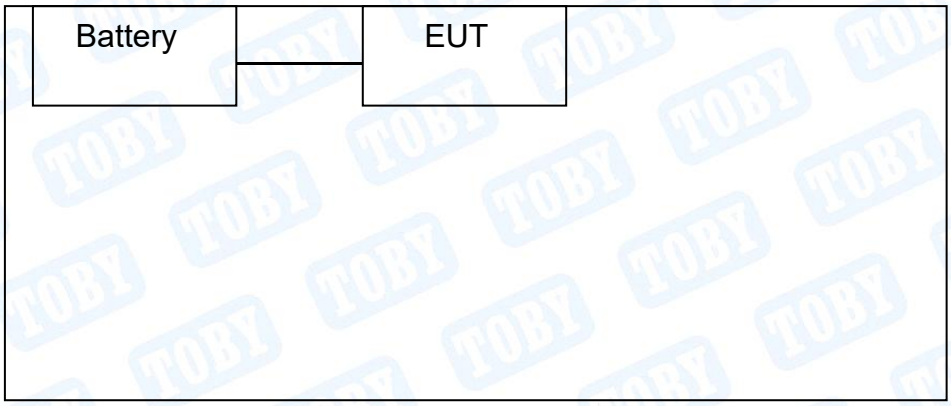
To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Pretest Mode	Description
Mode 1	Playing Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For EMI Test	
Final Test Mode	**Description**
Mode 1	Playing Mode
For EMS Test	
Final Test Mode	**Description**
Mode 1	Playing Mode

1.4. Block Diagram Showing the Configuration of System Tested



1.5. Description of Support Units

Equipment Information				
Name	**Model**	**S/N**	**Manufacturer**	**Used "√"**
Battery	6-QW-45(380)-LT1	----	VARTA	√
----	----	----	----	√
Note: The Battery provided by the lab.				

1.6. Measurement Uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %.

Test	Parameters	Expanded Uncertainty (U_{Lab})	Expanded Uncertainty (U_{Cispr})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.50 dB ±3.10 dB	±4.0 dB ±3.6 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB	±5.2 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB	N/A
Mains Harmonic	Voltage	±3.11%	N/A
Voltage Fluctuations & Flicker	Voltage	±3.25%	N/A

1.7. General Performance Criterion

General

General performance criteria are defined in 8.2, 8.3 and 8.4. These criteria shall be used during the testing of primary functions where no relevant annex is applicable.

When assessing the impact of a disturbance on a function, the assessment should take into consideration the function's performance prior to the application of the disturbance and only identify as failures those changes in performance that are a result of the disturbance.

Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

1.8. Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at: 1 A/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.
At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)
The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01
The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.Designation Number: CN1223.

IC Registration No.: (11950A)
The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2. TEST Results Summary

EMISSION (☒ CISPR 32:2015/AMD1:2019 ED2)			
Description of test items	**Standards**	**Class**	**Results**
Conducted disturbance at mains terminals	CISPR 32:2015/AMD1:2019 ED2	☐ Class A ☐ Class B	N/A
Conducted disturbance for asymmetric mode	CISPR 32:2015/AMD1:2019 ED2	☐ Class A ☐ Class B	N/A**(2)**
Conducted differential voltage emission	CISPR 32:2015/AMD1:2019 ED2	Class B	N/A**(2)**
Radiated Disturbance	CISPR 32:2015/AMD1:2019 ED2	☐ Class A ☒ Class B	Pass

Note:
(1) Class A/Class B: Applicable to AC mains power ports
(2) Class A: Applicable to wired network ports, optical fibre ports with metallic shield or tension members and antenna ports.
Class B: Applicable to wired network ports, optical fibre ports with metallic shield or tension members, broadcast receiver tuner ports and antenna ports.
Applicable to ports listed above and intended to connect to cables longer than 3 m.
(3) Class B: Applicable to TV broadcast receiver tuner ports with an accessible connector, RF modulator output ports and FM broadcast receiver tuner ports with an accessible connector.

IMMUNITY (☒ CISPR 35:2016)		
Description of test items	**Standards**	**Results**
Electrostatic Discharge (ESD)	IEC 61000-4-2: 2008	Pass
Continuous RF Electromagnetic Field Disturbances	IEC 61000-4-3:2006/AMD1:2007/AMD2:2010	Pass
EFT/B Immunity	IEC 61000-4-4: 2012	N/A
Surge Immunity	IEC 61000-4-5:2005	N/A
Continuous RF Disturbances	IEC 61000-4-6: 2008	N/A
Power frequency magnetic field	IEC 61000-4-8: 2009	N/A
Voltage dips, >95% reduction	IEC 61000-4-11:2004	N/A
Voltage dips, 30% reduction		
Voltage interruptions		
Note: N/A is an abbreviation for Not Applicable. (1) Not applicable, Applicable only to equipment containing devices intrinsically susceptible to magnetic fields, the EUT is not containing devices susceptible to magnetic fields. (2) Not applicable, Applicable only to CPE xDSL ports.		

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Radiation Emission	TS+(J32-RS)	Tonsced	3.0.0.4
Radiation Immunity	TS+(J32-RS)	Tonsced	3.0.0.5

4. Test Equipment Used and Test Site

Test Site				
No.	**Test Site**	**Manufacturer**	**Specification**	**Used**
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0（m）	X
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0（m）	X
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0（m）	X
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0（m）	√

Radiation Emission Test					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Cal. Due Date**
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 30, 2023	Aug. 29, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 20, 2023	Jun. 19, 2024
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb.22, 2025
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 26, 2022	Jun.25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 26, 2022	Jun.25, 2024
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 30, 2023	Aug. 29, 2024
Discharge Immunity Test					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Cal. Due Date**
ESD Tester	TESEQ	NSG437	304	Jun. 21, 2023	Jun. 20, 2024
Radiated Immunity Test					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Cal. Due Date**
Gestockte Log.-Per.-Breitband-antenna Stacked Log.-Per.-Broadband	SCHWARZBECK	STLP 9129	162	N/A	N/A
Electric field probe	Narda	EP 601	811ZX01000	Feb. 27, 2024	Feb.26, 2025
Signal Generator	Agilent	N5181A	MY50141953	Aug. 30, 2023	Aug. 29, 2024
EPM Series Power Meter	KEYSIGHT	N1914A	MY61180020	Jun. 20, 2023	Jun. 19, 2024
Power Sensor	KEYSIGHT	E9301A	MY61130007	Jun. 20, 2023	Jun. 19, 2024
Power Sensor	KEYSIGHT	E9301A	MY61130011	Jun. 20, 2023	Jun. 19, 2024
Radio Frequency Switch	Tonscend	JS0806s	21E8060428	N/A	N/A
Microwave Power amplifier	Micotop	MPA-80-1000-250	MPA2105144	Jun. 20, 2023	Jun. 19, 2024
Microwave Power amplifier	Micotop	MPA-1000-6000-100	MPA2105150	Jun. 20, 2023	Jun. 19, 2024

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

CISPR 32:2015/AMD1:2019 ED2

5.1.2 Test Limit

Radiated Disturbance Test Limit

FREQUENCY (MHz)	Class A (at 3m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 – 230	50	40
230 – 1000	57	47

Notes:
(1) The limit for radiated test was performed according to as following: EN 55032
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Limits of Radiated Emission Measurement (Above 1000MHz)

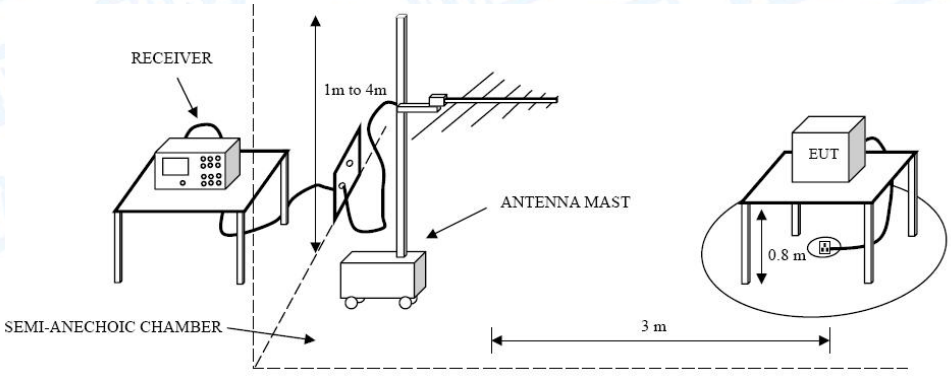
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
1000-3000	76	56	70	50
3000-6000	80	60	74	54

Notes:
(1) The lower limit applies at the transition frequency.

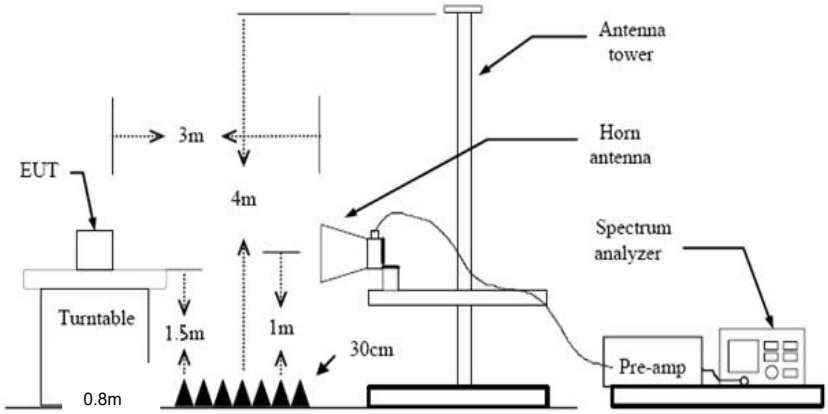
Frequency Range of Radiated Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 6 GHz, whichever is lower

5.2 Test Setup



Below-1G



Above 1G

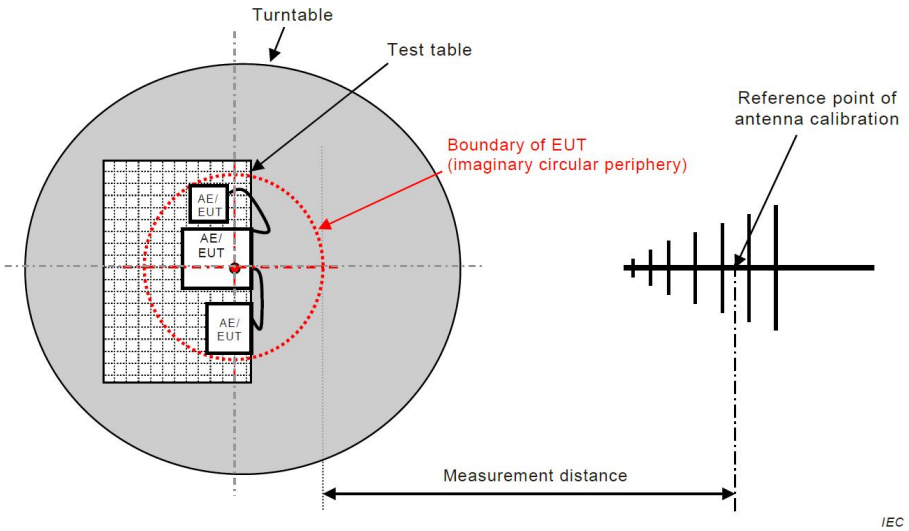


Figure C.1 – Measurement distance

5.3 Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT and local AE shall be arranged in the most compact practical arrangement within the test volume, while respecting typical spacing and the requirements defined in Annex D. The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See Figure C.1 and Figure C.2.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum Quasi Peak detector mode scanning the measurement frequency range.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

5.4 Deviation From Test Standard

No deviation

5.5 Test Data

Please refer to the Attachment A.

6. Electrostatic Discharge Immunity Test

6.1 Test Standard and Limit

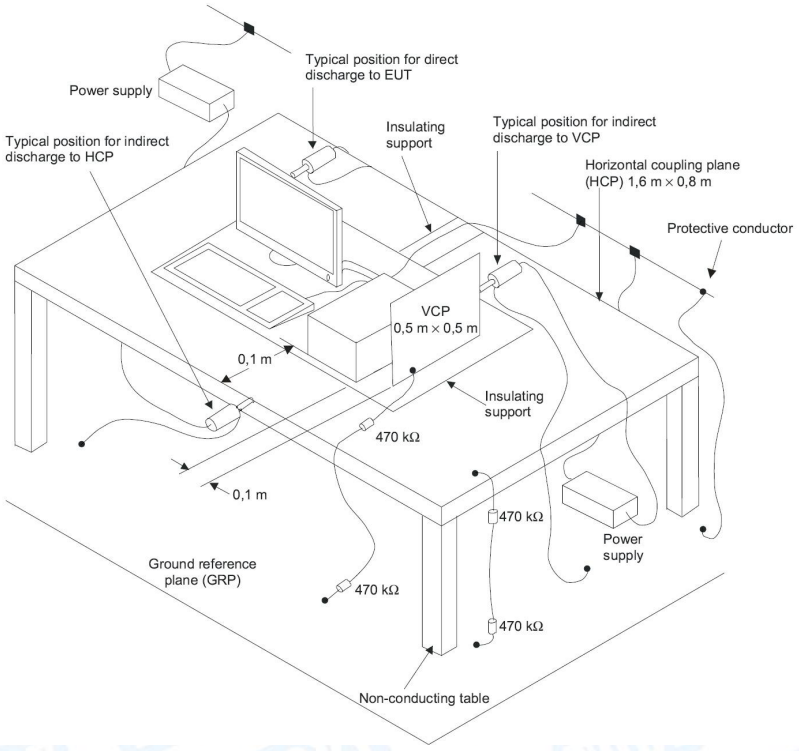
6.1.1 Test Standard

CISPR 35:2016
IEC 61000-4-2: 2008

6.1.2 Test Level

Discharge Impedance:	330 ohm/ 150pF
Discharge Voltage:	Air Discharge：2kV/4kV/8kV(Direct) Contact Discharge: 2kV/4kV (Direct /Indirect)
Polarity:	Positive& Negative
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

6.2 Test Setup



6.3 Test Procedure

The test method shall be in accordance with IEC 61000-4-2 [2], clauses 6, 7 and 8.

For radio equipment and ancillary equipment the following requirements and evaluation of test results shall apply.

The test severity level for contact discharge shall be ±4 kV and for air discharge ±8 kV.

All other details, including intermediate test levels, are contained within IEC 61000-4-2 [2], clause 5.

Electrostatic discharges shall be applied to all exposed surfaces of the EUT except where the user documentation specifically indicates a requirement for appropriate protective measures (as specified in IEC 61000-4-2 [2], clauses 8.3.2 and 8.3.3).

6.4 Deviation From Test Standard

No deviation

6.5 Test Data

Please refer to the Attachment B.

7. Radiated Electromagnetic Field Immunity Test

7.1 Test Standard and Limit

7.1.1 Test Standard

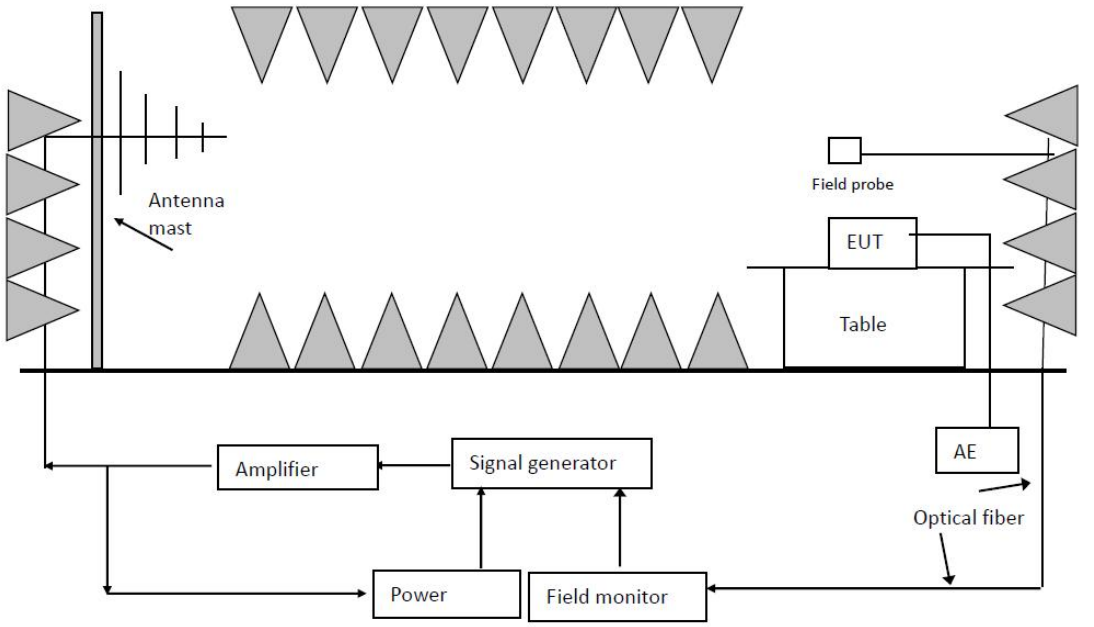
CISPR 35:2016
IEC 61000-4-3:2006/AMD1:2007/AMD2:2010

7.1.2 Test Level

Test Level for Radiated Electromagnetic Field Immunity Test

Port	Test Specification
Enclosure Port	80-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz 3 V/m 80 % AM (1kHz)

7.2 Test Setup



7.3 Test Procedure

The test method shall be in accordance with IEC 61000-4-3 [3], clauses 6, 7 and 8.

The following requirements and evaluation of test results shall apply:

- the test level shall be 3 V/m (measured unmodulated). The test signal shall be amplitude modulated to a depth of 80 % by a sinusoidal audio signal of 1 000 Hz.

If the wanted signal is modulated at 1 000 Hz, then an audio signal of 400 Hz shall be used;

- the test shall be performed over the frequency range 80 MHz to 6 000 MHz with the exception of the exclusion band for transmitters, receivers and duplex transceivers (see clause 4.3), as appropriate;
- for receivers and transmitters the stepped frequency increments shall be 1 % frequency increment of the momentary used frequency;
- the dwell time of the test phenomena at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond;

NOTE: Dwell time is product dependent.

- the frequencies selected and used during the test shall be recorded.

All the scanning conditions are as following:

Condition of Test	Remark
Fielded Strength	3V/m
Radiated Signal	80%AM,1kHz Since Wave
Scanning Frequency	80-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz

7.4 Deviation From Test Standard

No deviation

7.5 Test Data

Please refer to the Attachment C.

9. Photographs - Constructional Details

Photo 1 Appearance of EUT

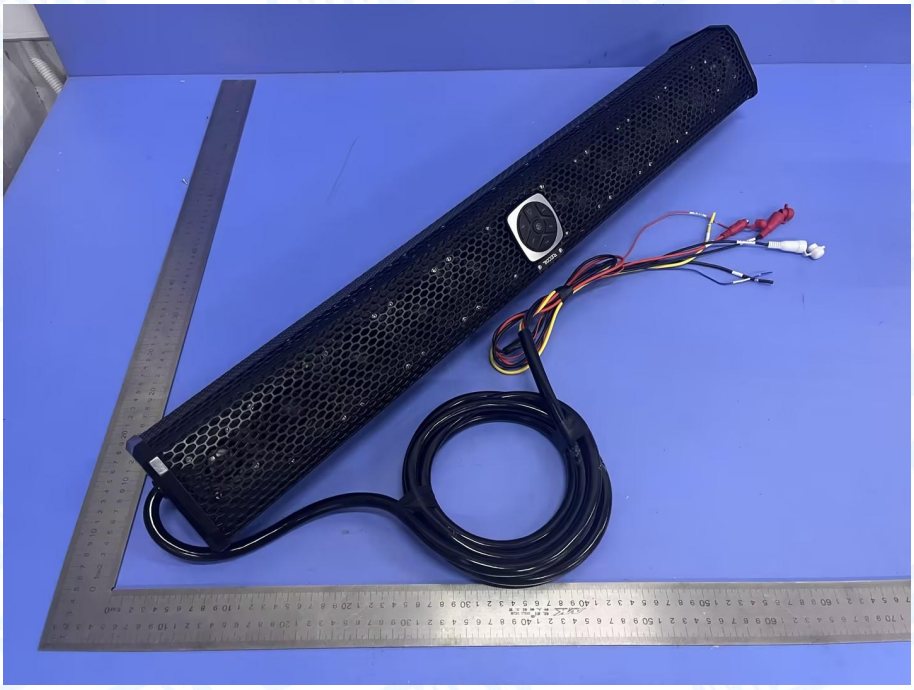


Photo 2 Appearance of EUT

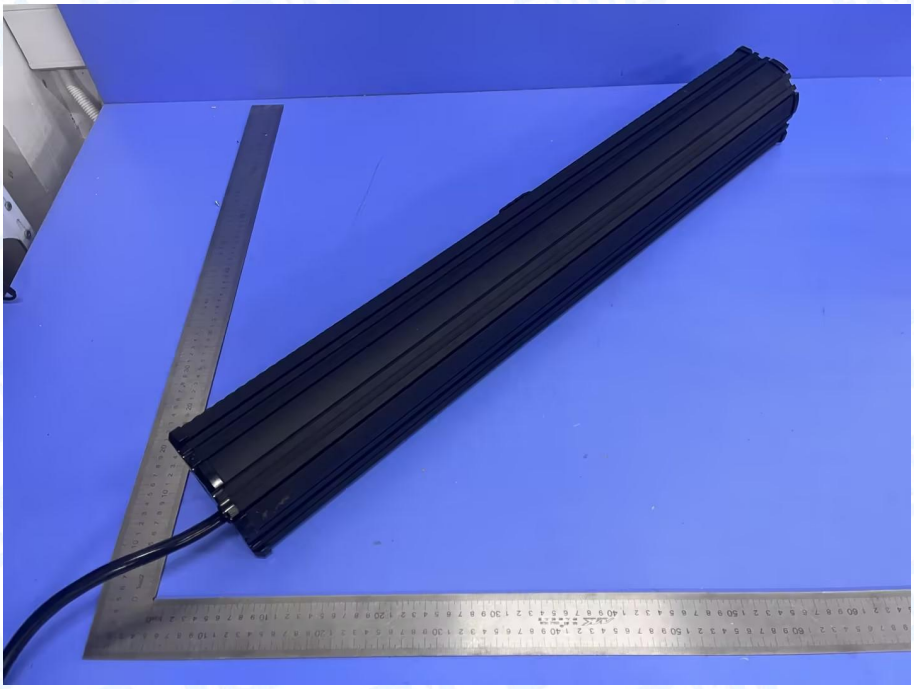


Photo 3 Appearance of EUT

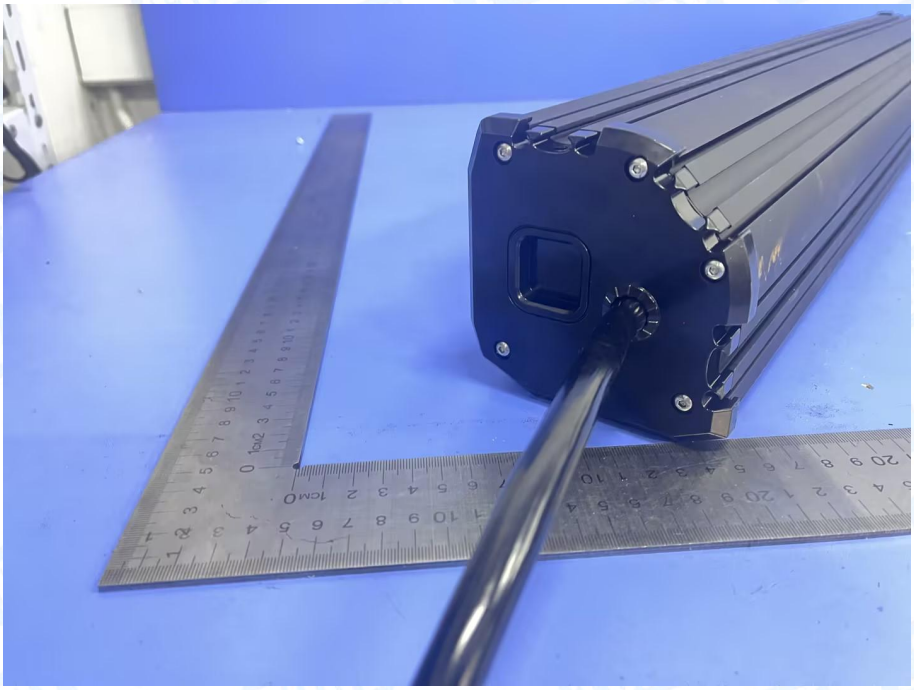


Photo 4 Appearance of EUT

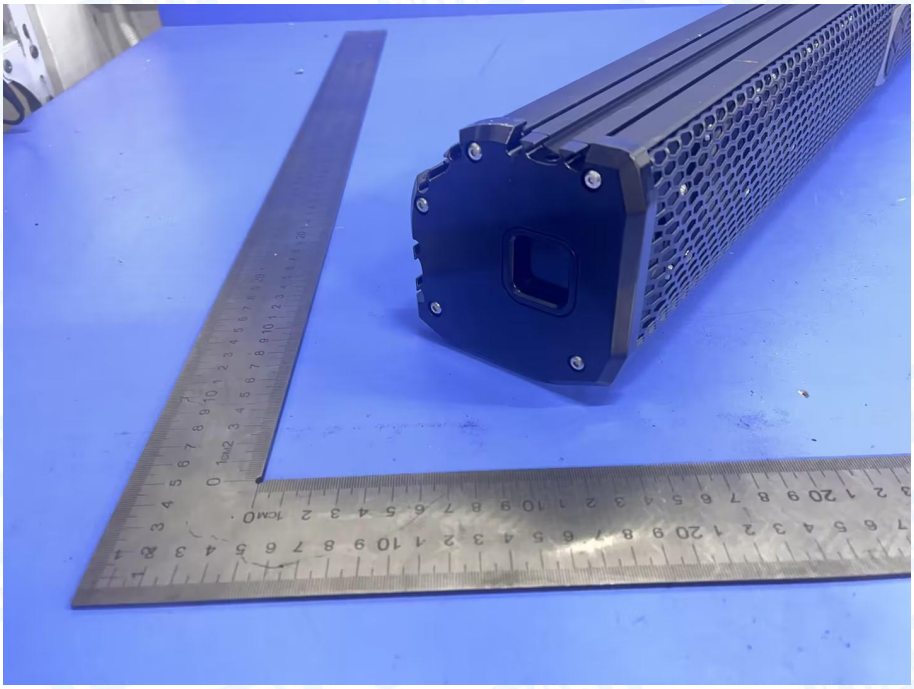


Photo 5 Internal of EUT

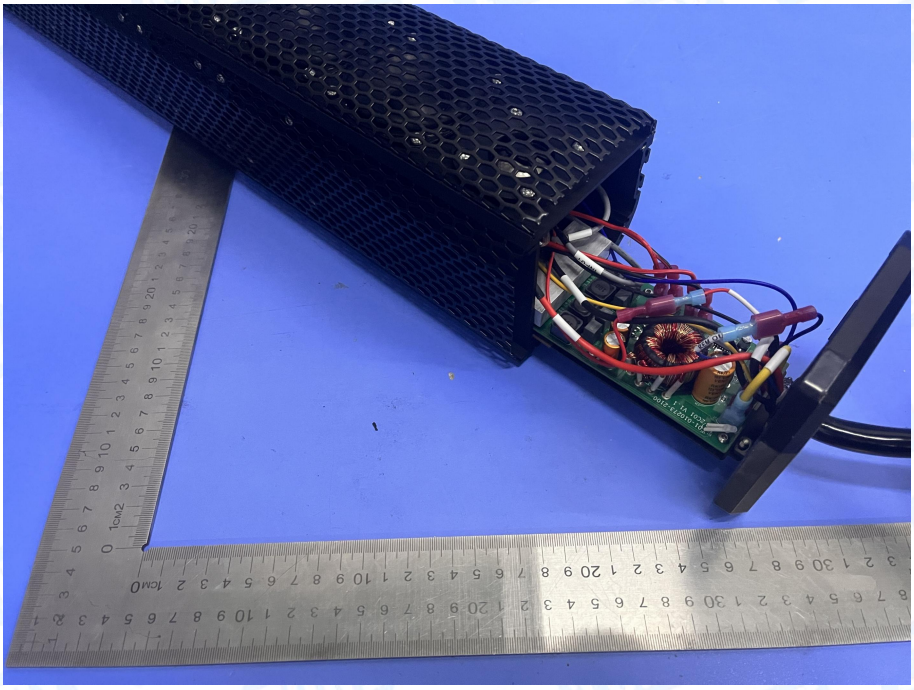


Photo 6 Appearance of PCB

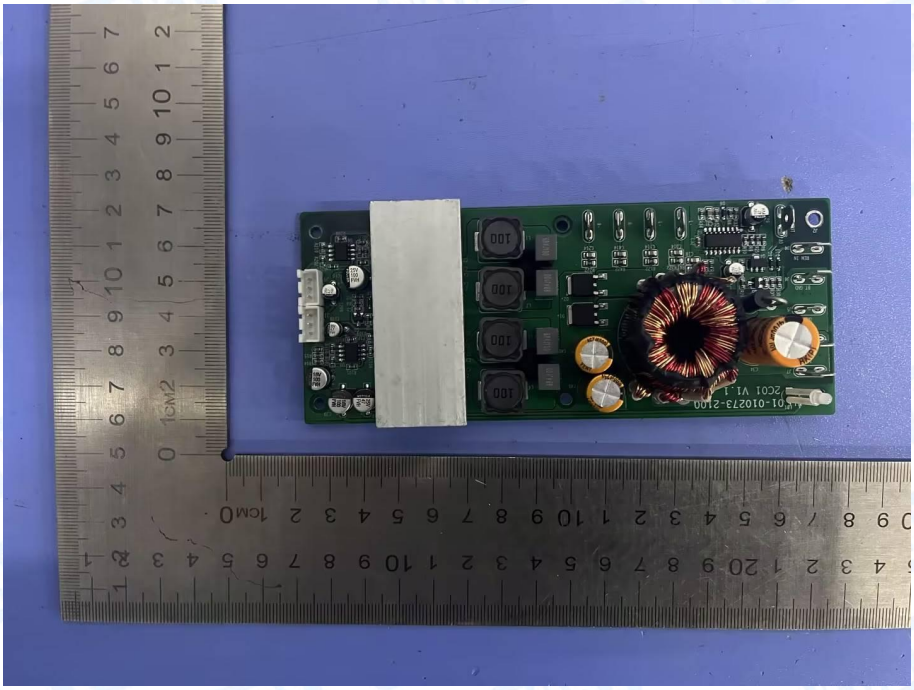


Photo 7 Appearance of PCB

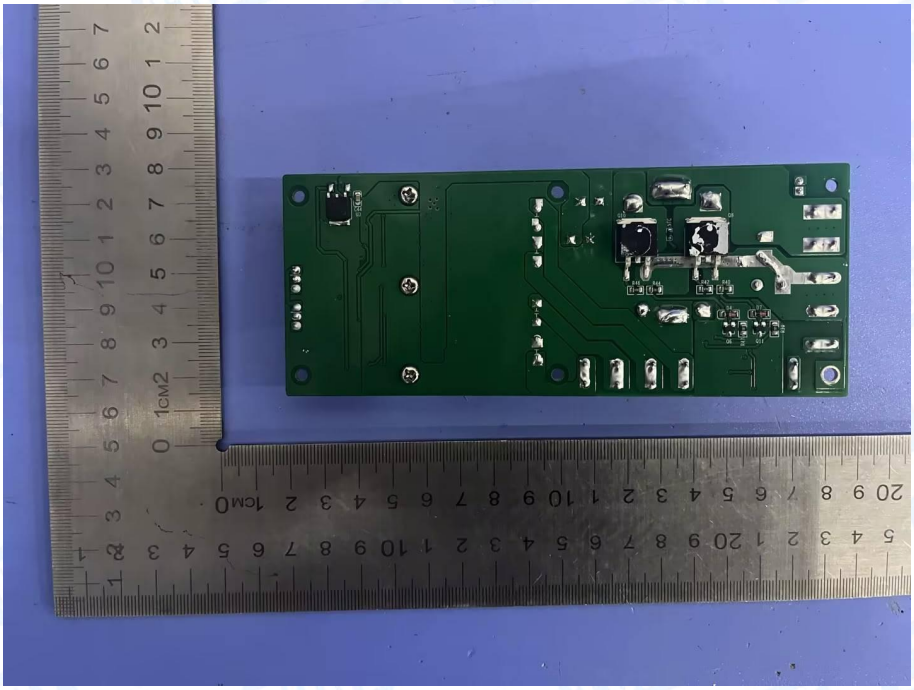


Photo 8 Internal of EUT

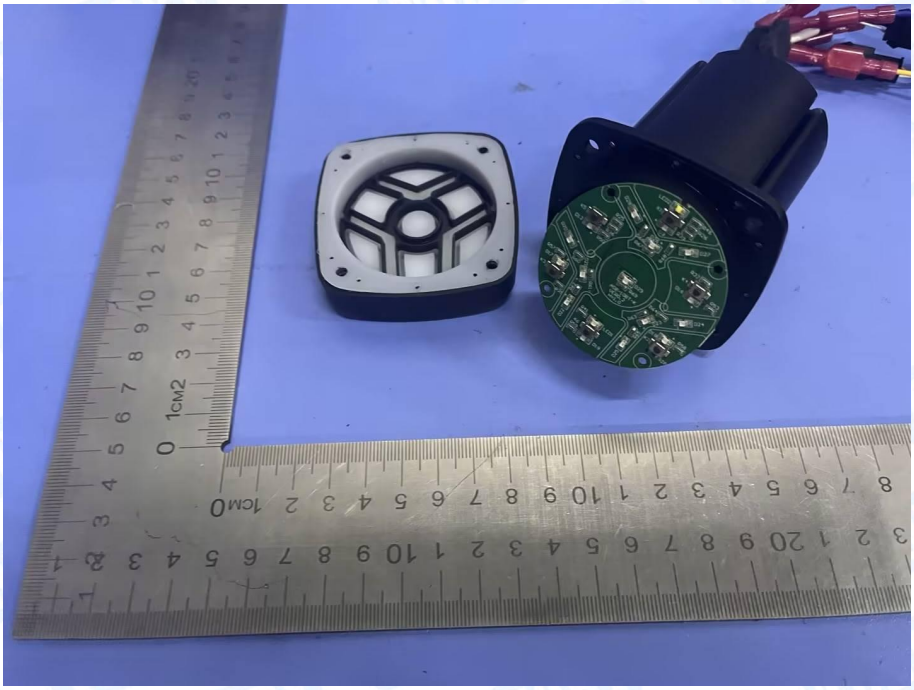


Photo 9 Appearance of PCB

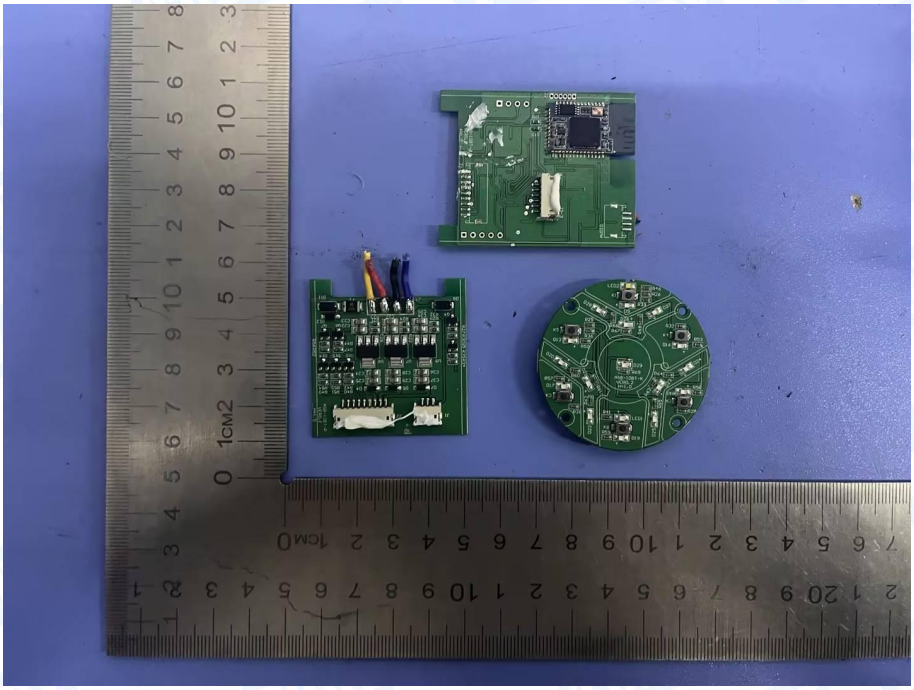
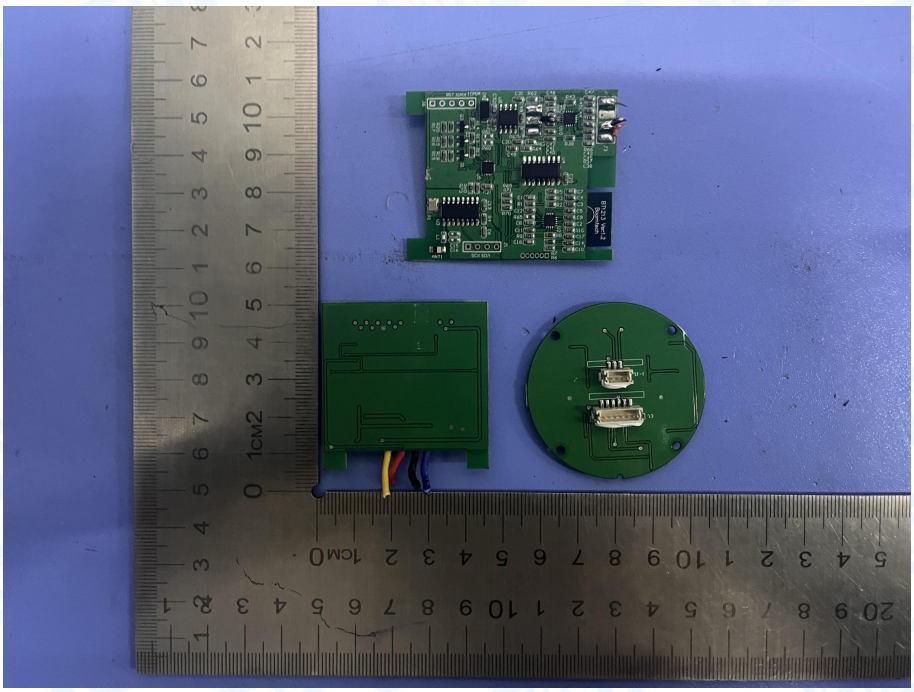
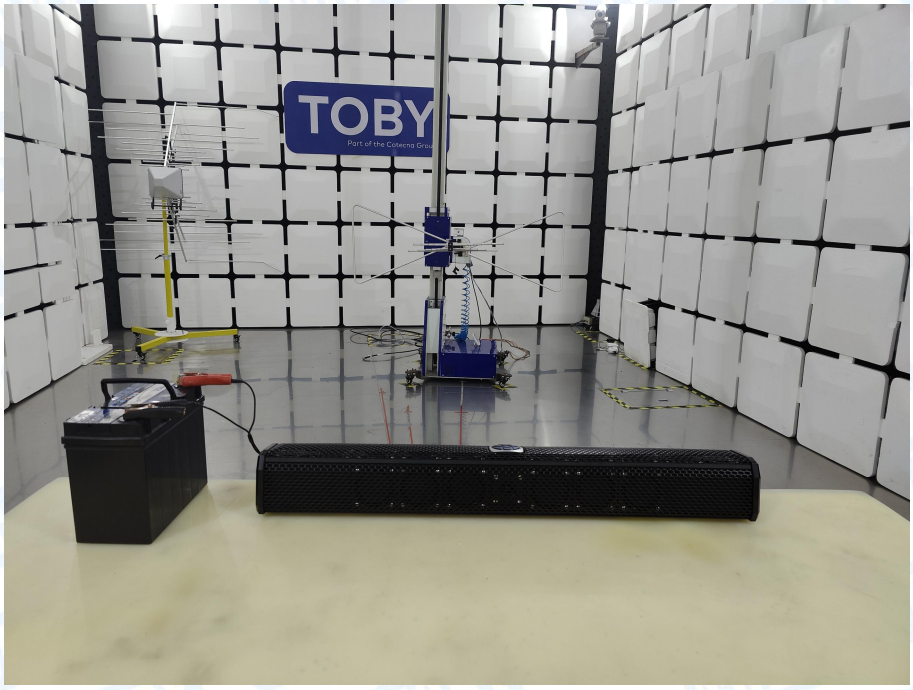


Photo 10 Appearance of PCB

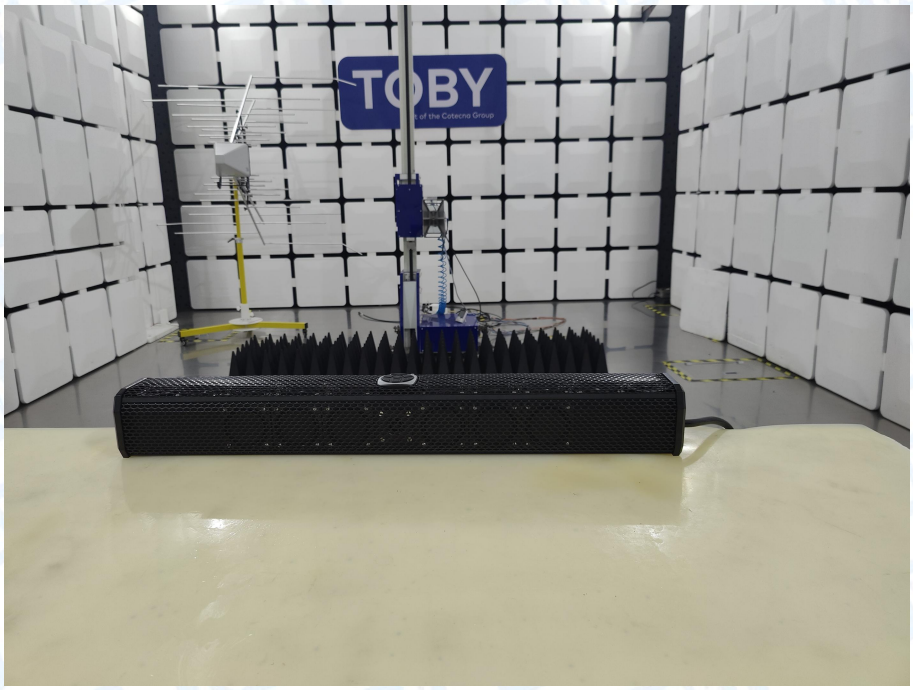


10. Photographs - Test Setup

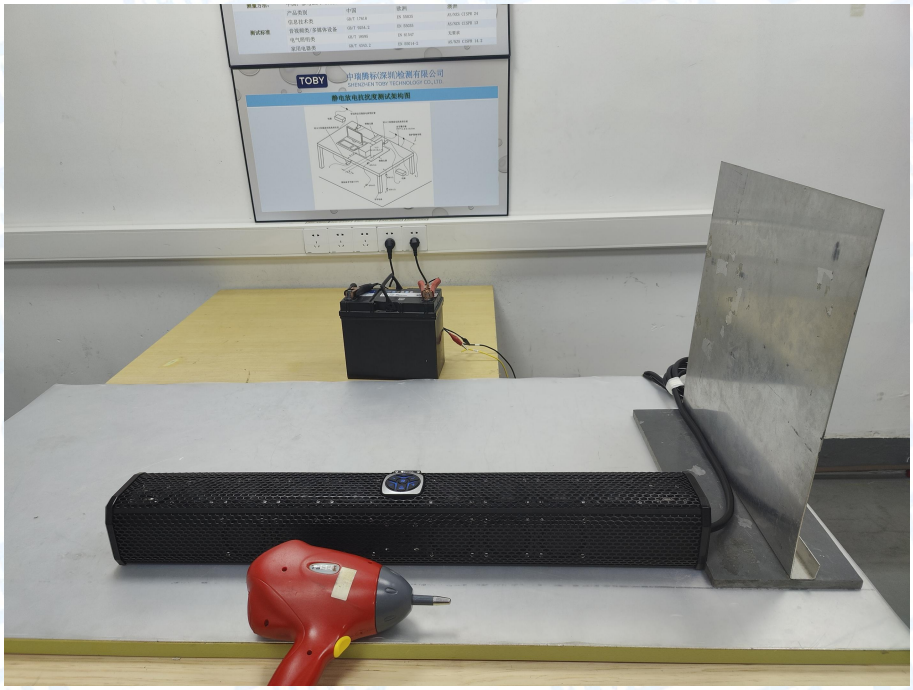
Radiated Emission Test Setup--Below 1GHz



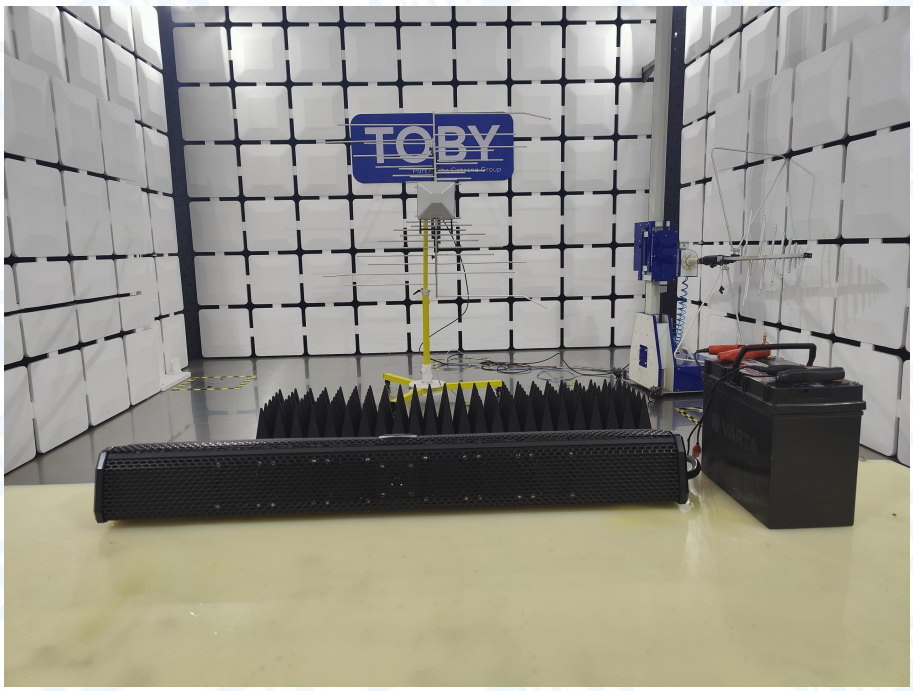
Radiated Emission Test Setup--Above 1GHz



Electrostatic Discharge Test Setup



Radiated Immunity Test Setup



Attachment A--Radiated Emission Test Data

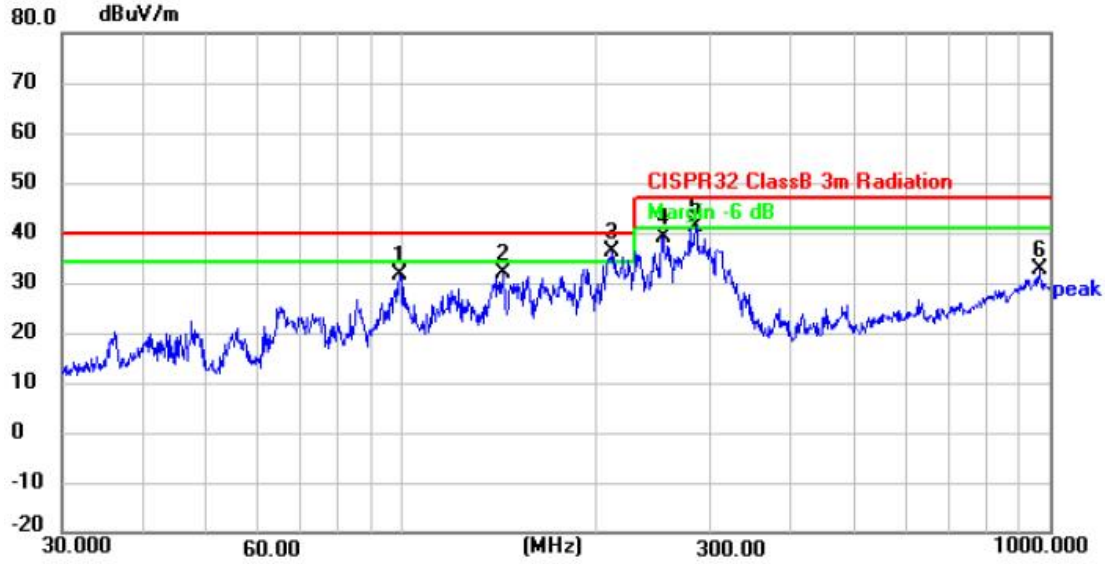
--Below 1GHz

Temperature:	24.8℃	**Relative Humidity:**	43%
Pressure:	1020 hPa		
Test Voltage:	DC 12V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 !	41.7129	58.93	-23.82	35.11	40.00	-4.89	peak	P
2 *	46.0164	60.74	-24.26	36.48	40.00	-3.52	peak	P
3 !	48.8429	59.79	-24.59	35.20	40.00	-4.80	QP	P
4 !	215.2678	60.04	-24.64	35.40	40.00	-4.60	QP	P
5	287.9904	61.08	-21.98	39.10	47.00	-7.90	peak	P
6	900.1474	38.26	-7.46	30.80	47.00	-16.20	peak	P

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	24.8℃	Relative Humidity:	43%
Pressure:	1020 hPa		
Test Voltage:	DC 12V		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode		

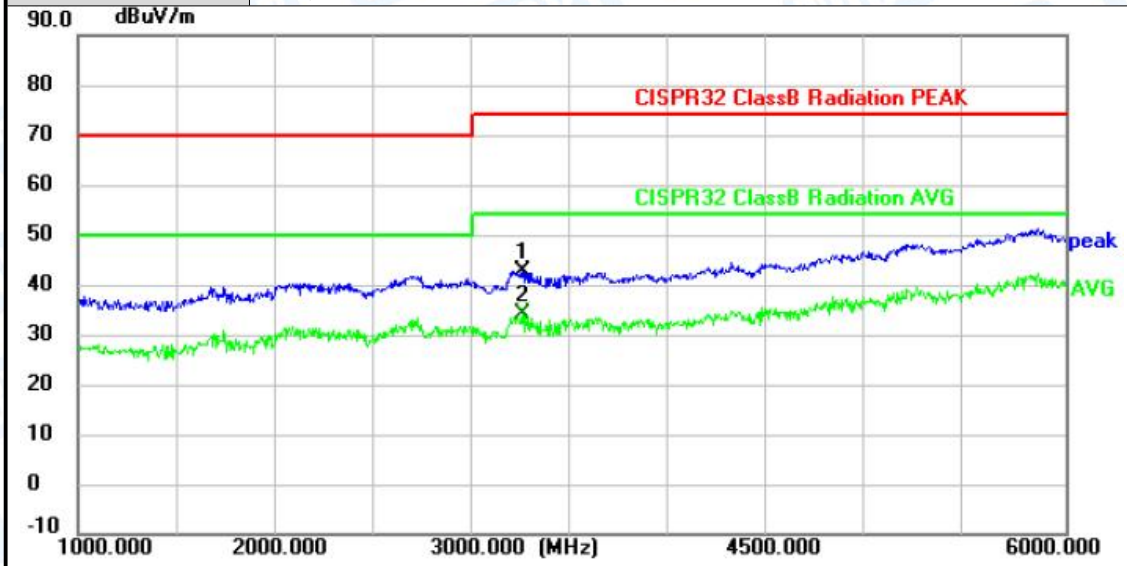


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	99.5281	57.49	-25.98	31.51	40.00	-8.49	peak	P
2	143.3260	53.85	-21.85	32.00	40.00	-8.00	peak	P
3 *	211.5264	60.49	-24.29	36.20	40.00	-3.80	peak	P
4	253.8366	62.39	-23.16	39.23	47.00	-7.77	peak	P
5 !	284.9767	63.40	-22.20	41.20	47.00	-5.80	peak	P
6	965.5420	40.23	-7.68	32.55	47.00	-14.45	peak	P

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

--Above 1GHz

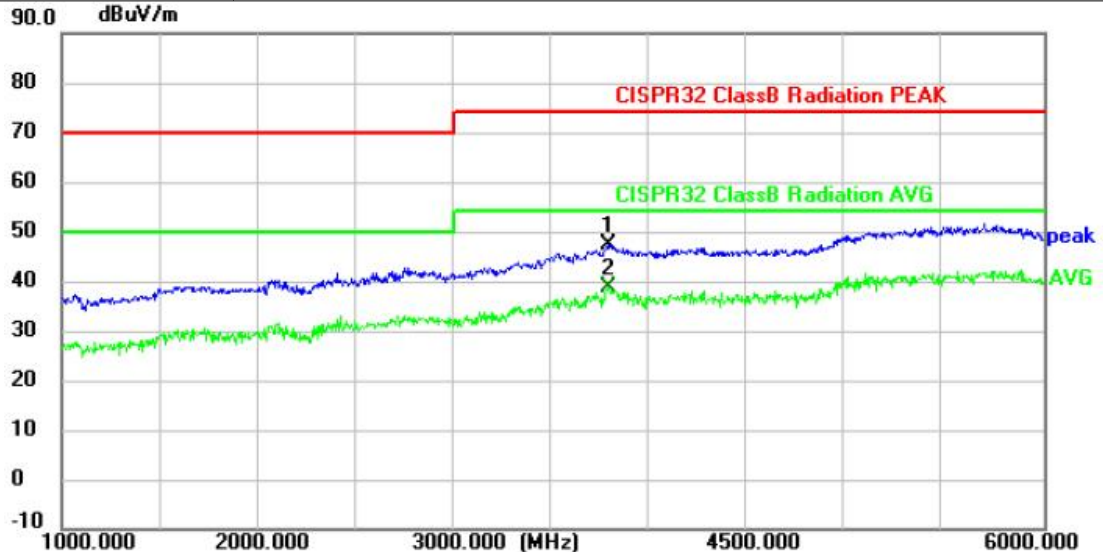
Temperature:	23.4℃	**Relative Humidity:**	48%
Pressure:	1020 hPa		
Test Voltage:	DC 12V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3250.000	56.48	-13.67	42.81	74.00	-31.19	peak	P
2 *	3255.000	47.89	-13.68	34.21	54.00	-19.79	AVG	P

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	**Relative Humidity:**	48%
Pressure:	1020 hPa		
Test Voltage:	DC 12V		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3780.000	60.43	-13.10	47.33	74.00	-26.67	peak	P
2 *	3785.000	51.82	-13.09	38.73	54.00	-15.27	AVG	P

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Attachment B--Electrostatic Discharge Test Data

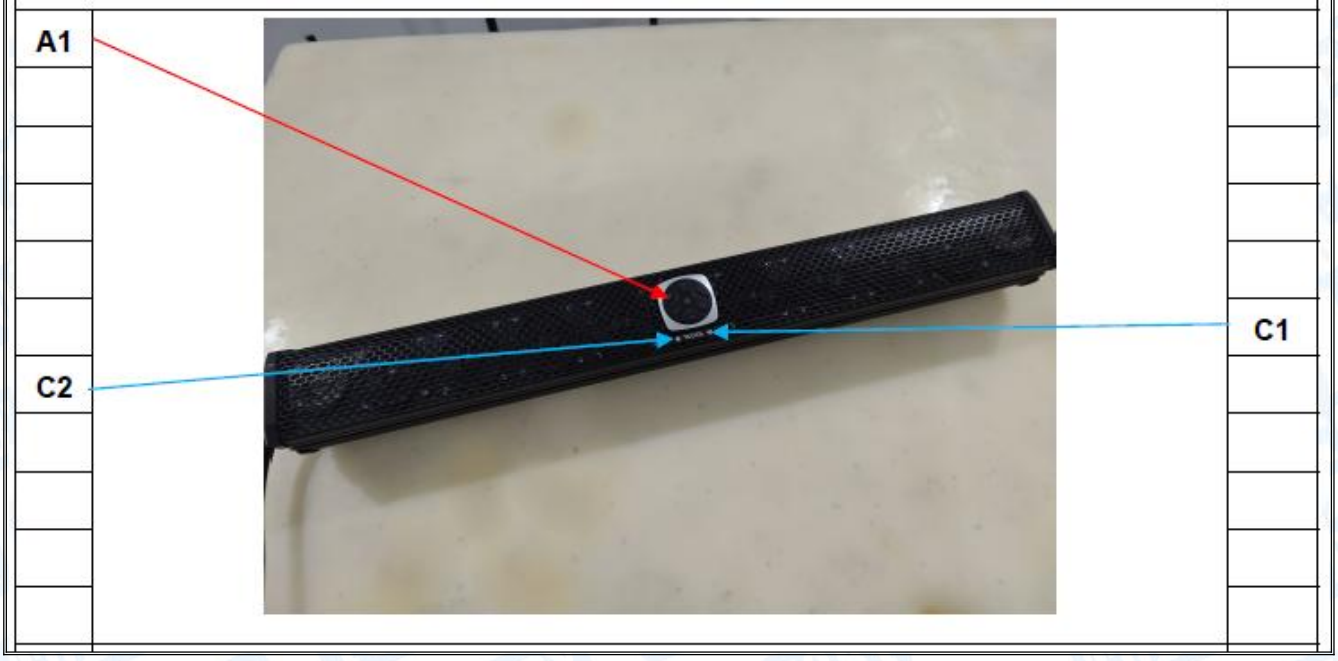
Temperature:	23.5℃								Humidity:		51%							
Pressure(hpa):	1020																	
Power supply:	DC 12V								Test Mode:		Mode 1							
Location	**Test Level(kV) and Result**																**Criteria**	**Result**
	Air Discharge								**Contact Discharge**									
	2		4		8		15		2		4		6		8			
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
A1	A	A	A	A	A	A	/	/	/	/	/	/	/	/	/	/	B	PASS
C1	/	/	/	/	/	/	/	/	A	A	A	A	/	/	/	/	B	PASS
C2	/	/	/	/	/	/	/	/	A	A	A	A	/	/	/	/	B	PASS

Test Level(kV) and Result																		
Location	**HCP**								**VCP**								**Criteria**	**Result**
	2		4		6		8		2		4		6		8			
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
Front	/	/	A	A	/	/	/	/	/	/	A	A	/	/	/	/	B	PASS
Back	/	/	A	A	/	/	/	/	/	/	A	A	/	/	/	/	B	PASS
Left	/	/	A	A	/	/	/	/	/	/	A	A	/	/	/	/	B	PASS
Right	/	/	A	A	/	/	/	/	/	/	A	A	/	/	/	/	B	PASS

Note: "/" Representative the test not applicable

Criteria A: There was no change operated with initial operating during the test.
Criteria B: The EUT function loss during the test, but self-recoverable after the test.
Criteria C: The system shut down during the test.

Test Location Photos



Attachment C--RF Field Strength Susceptibility Test Data

Temperature :	24.2℃	Humidity :	53%
Power supply :	DC 12V	Test Mode :	Mode 1
Pressure(hpa) :	1020		

Required Performance Criteria: A

Modulation: AM 80% , Field strength: 3V/m, Pulse: 1 kHz.

Antenna Polarity	Actual Performance Criteria				Result
	Frequency Range: 80~1000MHz				
	EUT Position				
	Front	Right	Rear	Left	
H	A	A	A	A	PASS
V	A	A	A	A	PASS

EUT Position	Frequency								Result
	1800MHz		2600MHz		3500MHz		5000MHz		
	Antenna Polarity								
	H	V	H	V	H	V	H	V	
Front	A	A	A	A	A	A	A	A	PASS
Right	A	A	A	A	A	A	A	A	PASS
Rear	A	A	A	A	A	A	A	A	PASS
Left	A	A	A	A	A	A	A	A	PASS

Remark:

1) Criteria A: There was no change operated with initial operating during the test.
2) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
3) Criteria C: The system shut down during the test.

-----END OF REPORT-----