

ISED COMPLIANCE REPORT

for

Dongguan Jingheng Electron Co., Ltd.

Active Loudspeaker System

Prepared for : Dongguan Jingheng Electron Co., Ltd.

Address : Room 101, Building 1, No. 15, Shenle 1st Road, Hengli Town,
Dongguan City, 523465 Guangdong, P. R. China

Prepared by : EST Technology Co., Ltd.

Address : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

Tel: 86-769-83081888

Fax: 86-769-83081878

Report No. : ESTE-I2404013

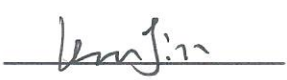
Date of Report : Apr. 23, 2024

TABLE OF CONTENTS

Test Report Declaration

Page

1. GENERAL PRODUCT INFORMATION	4
1.1. Product Function	4
1.2. Description of Device (EUT).....	4
1.3. Difference between Model Numbers.....	4
1.4. Independent Operation Modes	4
2. TEST STANDARDS AND SITES	5
2.1. Description of Standards and Results	5
2.2. Test Facilities.....	6
2.3. List of Test and Measurement Instruments	7
3. TEST SET-UP AND OPERATION MODES.....	8
3.1. Principle of Configuration Selection	8
3.2. Block Diagram of Test Set-up	8
3.3. Test Operation Mode and Test Software	8
3.4. Special Accessories and Auxiliary Equipment	8
3.5. Countermeasures to Achieve EMC Compliance.....	8
4. EMISSION TEST RESULTS.....	9
4.1. Conducted Emission at The Mains Terminals Test.....	9
4.2. Radiated Emission Test (30MHz-1000MHz)	14
4.3. Radiated Emission Test (above 1GHz)	19
5. PHOTOGRAPHS OF TEST SET-UP	26
5.1. Set-up for Conducted Emission at the Mains Terminals Test.....	26
5.2. Set-up for Radiated Emission Test(30MHz-1000MHz).....	27
5.3. Set-up for Radiated Emission Test(above 1GHz).....	28
6. PHOTOGRAPHS OF THE EUT	29

Applicant: Address:	Dongguan Jingheng Electron Co., Ltd. Room 101, Building 1, No. 15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P. R. China		
Manufacturer: Address:	Dongguan Jingheng Electron Co., Ltd. Room 101, Building 1, No. 15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P. R. China		
Factory: Address:	Dongguan Jinheng Electron Co., Ltd. No. 15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China		
E.U.T:	Active Loudspeaker System		
Model Number:	MegaSys 1, AXV15.12		
Trade Name:	SHOW, TOPP PRO	Serial No.:	-----
Date of Receipt:	Apr. 10, 2024	Date of Test:	Apr. 16, 2024~Apr. 17, 2024
Test Specification:	ICES-003 Issue 7:2020 ANSI C63.4-2014		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
		Issue Date: Apr. 23, 2024	
Prepared by:	Reviewed by:	Approved by:	
			
Lena Jin / Assistant	Bible Hu / Engineer	Iceman Hu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.			

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Description	: Active Loudspeaker System
Model No.	: MegaSys 1
System Input Voltage	: AC 110-240V, 50/60Hz
Work Freq.	: 2.4GHz
Power	: 1200 W
AC Line	: Unshielded, Detachable 2.0m
INPUT Line	: Unshielded, Detachable 1.2m
OUTPUT Line	: Unshielded, Detachable 1.2m

1.3. Difference between Model Numbers

Note: They are identical except model name.

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1.INPUT

1.4.2. Bluetooth Mode

2. TEST STANDARDS AND SITES

2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	ICES-003:2020	Class B	PASS
		Minimum passing margin is 13.15dB at 7.29MHz	
Radiated Emission Test	ICES-003:2020	Class B	PASS
		Minimum passing margin is 8.07dB at 282.20MHz	
Radiated Emission Test (above 1GHz)	ICES-003:2020	Class B	PASS
		Minimum passing margin is 11.32dB at 5800MHz	

2.2. Test Facilities

EMC Lab	:	Accredited by CNAS, CHINA Registration No.: L5288 This Accreditation is valid until: November 12, 2029 Recognized by FCC, USA Designation Number: CN1215 This Recognition is valid until: January 31, 2026 Accredited by A2LA, USA Registration No.: 4366.01 This Accreditation is valid until: January 31, 2026 Recognized by Industry Canada CAB identifier No.: CN0035 This Recognition is valid until: January 31, 2026 Recognized by VCCI, Japan Registration No.: C-14103; T-20073; R-13663; R-20103; G-20097 Date of registration: Apr. 20, 2020 This Recognition is valid until: Apr. 19, 2026 Recognized by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018 Recognized by Intertek Registration No.: 2011-RTL-L2-64 Date of registration: November 08, 2018
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3.List of Test and Measurement Instruments

2.3.1.For conducted emission at the mains terminals test (2# conduction)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI3	EST-E071	Jun. 12, 2023	Jun. 11, 2024
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	Jun. 12, 2023	Jun. 11, 2024
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	Jun. 12, 2023	Jun. 11, 2024
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.2.For radiated emission test (1# 966 radiation)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	Jun. 12, 2023	Jun. 11, 2024
Bilog Antenna	Teseq	CBL 6111D	EST-E034	Jun. 12, 2023	Jun. 11, 2024
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.3.For radiated emission test (above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	Jun. 12, 2023	Jun. 11, 2024
Horn Antenna	SCHWARZBECK	BBHA 9120 D	EST-E031	Jun. 12, 2023	Jun. 11, 2024
Signal Amplifier	SCHWARZBECK	BBV9718	EST-E032	Jun. 12, 2023	Jun. 11, 2024
Horn Antenna (18-40GHz)	Com-Power	AHA-840	EST-E132	Jun. 12, 2023	Jun. 11, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	Jun. 12, 2023	Jun. 11, 2024
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

Note: All calibration reports of the equipment were provided by LiSai calibration and Testing

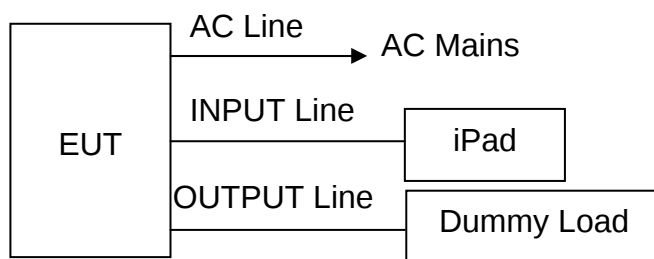
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Auxiliary equipment



(EUT: Active Loudspeaker System)

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

3.4. Special Accessories and Auxiliary Equipment

3.4.1.iPad

M / N	:	A1893
S / N	:	DMPY3KL5JF8K
Manufacturer	:	Apple

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at The Mains Terminals Test

RESULT : **Pass**
 Test procedure : ANSI C63.4-2014
 Frequency range : 0.15~30MHz
 Test Site : 2# Conduction Shielded Room
 Limits : ICES-003:2020 Class B

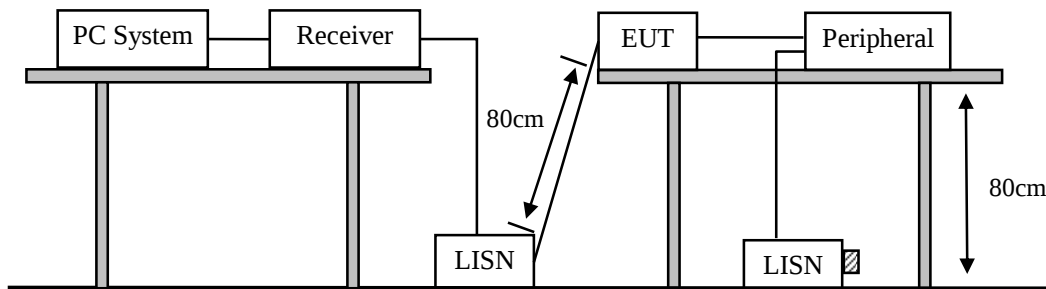
Test Setup

Date of test : Apr. 16, 2024
 Model No. : MegaSys 1
 Input Voltage : AC 120V/60Hz
 Operation Mode : INPUT, Bluetooth Mode

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.

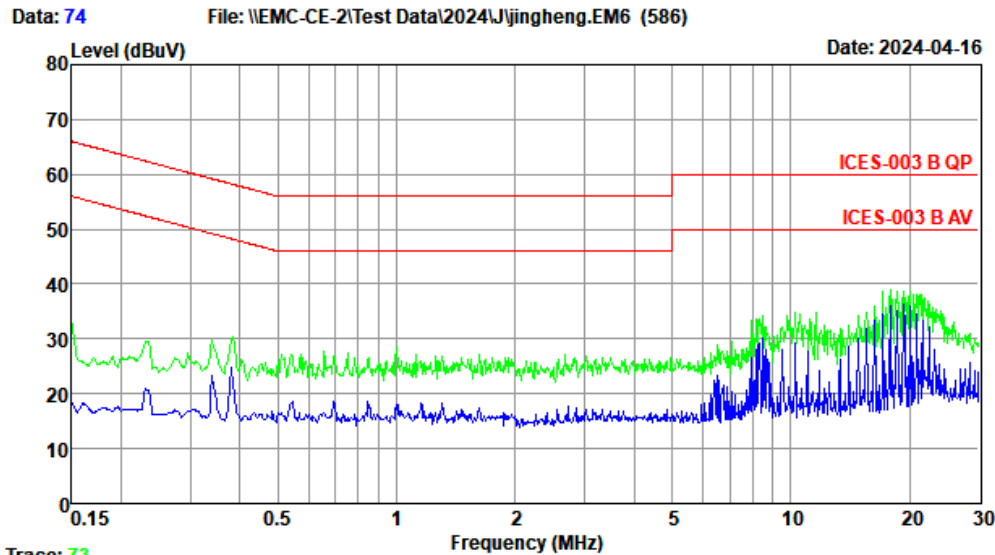


Note: Test uncertainty: $\pm 3.42\text{dB}$ at a level of confidence of 95%.(2#CE)

Test Data

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



Site no : 2#CE Shield Room Data no. : 74
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : NEUTRAL
Limit : ICES-003 B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

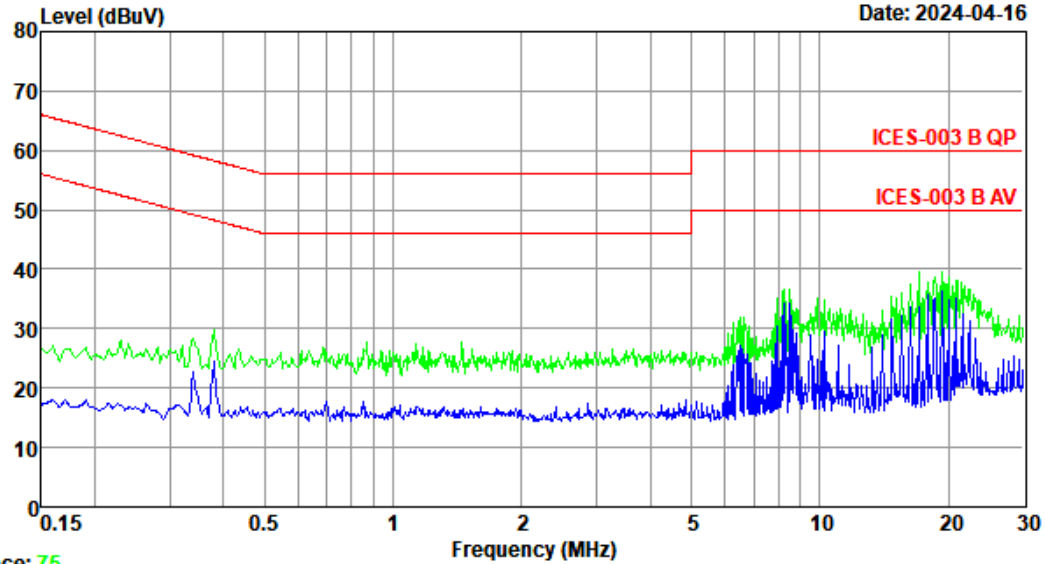
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 76

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 75

Site no : 2#CE Shield Room Data no. : 76
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : LINE
Limit : ICES-003 B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

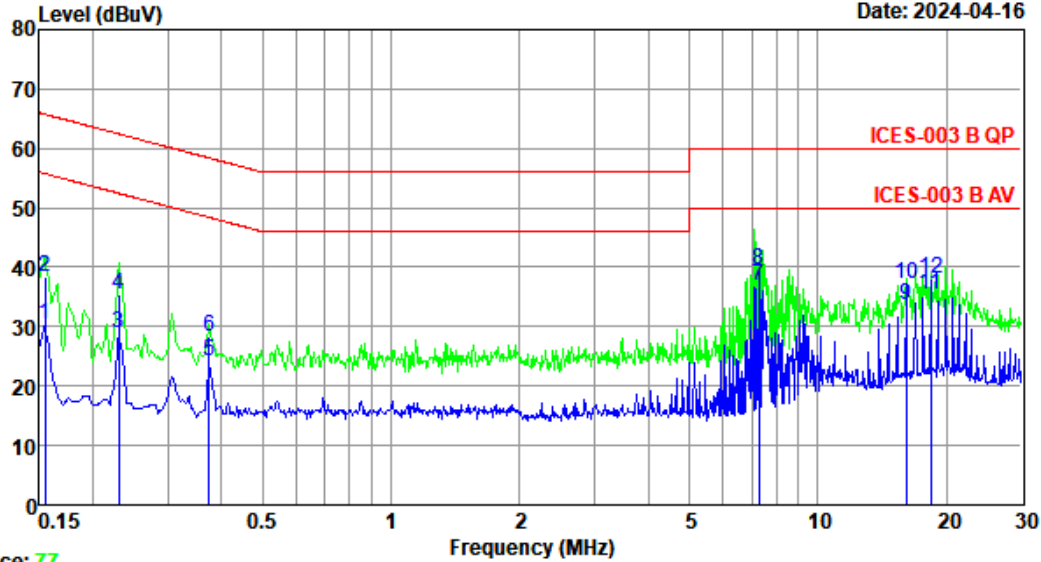
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 78

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 77

Site no : 2#CE Shield Room Data no. : 78
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : LINE
Limit : ICES-003 B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.12	9.89	10.53	30.54	55.74	25.20	Average
2	0.15	10.12	9.89	18.40	38.41	65.74	27.33	QP
3	0.23	10.16	9.94	8.91	29.01	52.44	23.43	Average
4	0.23	10.16	9.94	15.20	35.30	62.44	27.14	QP
5	0.38	10.12	9.89	4.13	24.14	48.39	24.25	Average
6	0.38	10.12	9.89	8.20	28.21	58.39	30.18	QP
7	7.29	10.14	9.99	16.72	36.85	50.00	13.15	Average
8	7.29	10.14	9.99	19.50	39.63	60.00	20.37	QP
9	16.14	10.51	10.11	12.95	33.57	50.00	16.43	Average
10	16.14	10.51	10.11	16.50	37.12	60.00	22.88	QP
11	18.43	10.63	10.22	14.45	35.30	50.00	14.70	Average
12	18.43	10.63	10.22	17.20	38.05	60.00	21.95	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. 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.

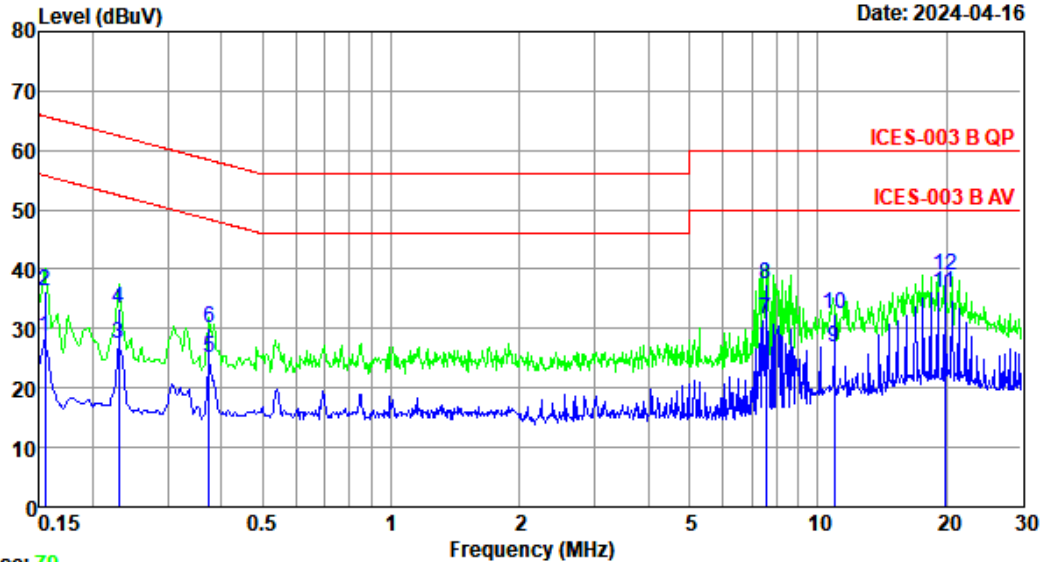
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 80

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 79
Site no : 2#CE Shield Room Data no. : 80
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : NEUTRAL
Limit : ICES-003 B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.22	9.89	8.43	28.54	55.74	27.20	Average
2	0.15	10.22	9.89	16.20	36.31	65.74	29.43	QP
3	0.23	10.15	9.94	7.50	27.59	52.44	24.85	Average
4	0.23	10.15	9.94	13.40	33.49	62.44	28.95	QP
5	0.38	10.10	9.89	5.09	25.08	48.39	23.31	Average
6	0.38	10.10	9.89	10.20	30.19	58.39	28.20	QP
7	7.57	10.10	9.99	11.57	31.66	50.00	18.34	Average
8	7.57	10.10	9.99	17.40	37.49	60.00	22.51	QP
9	10.90	10.19	10.01	6.77	26.97	50.00	23.03	Average
10	10.90	10.19	10.01	12.40	32.60	60.00	27.40	QP
11	19.84	10.56	10.29	15.10	35.95	50.00	14.05	Average
12	19.84	10.56	10.29	18.20	39.05	60.00	20.95	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. 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.

4.2. Radiated Emission Test (30MHz-1000MHz)

RESULT : **Pass**
 Test procedure : ANSI C63.4-2014
 Frequency : 30MHz-1000MHz
 Test Site : 1#966 Chamber
 Limits : ICES-003:2020 Class B

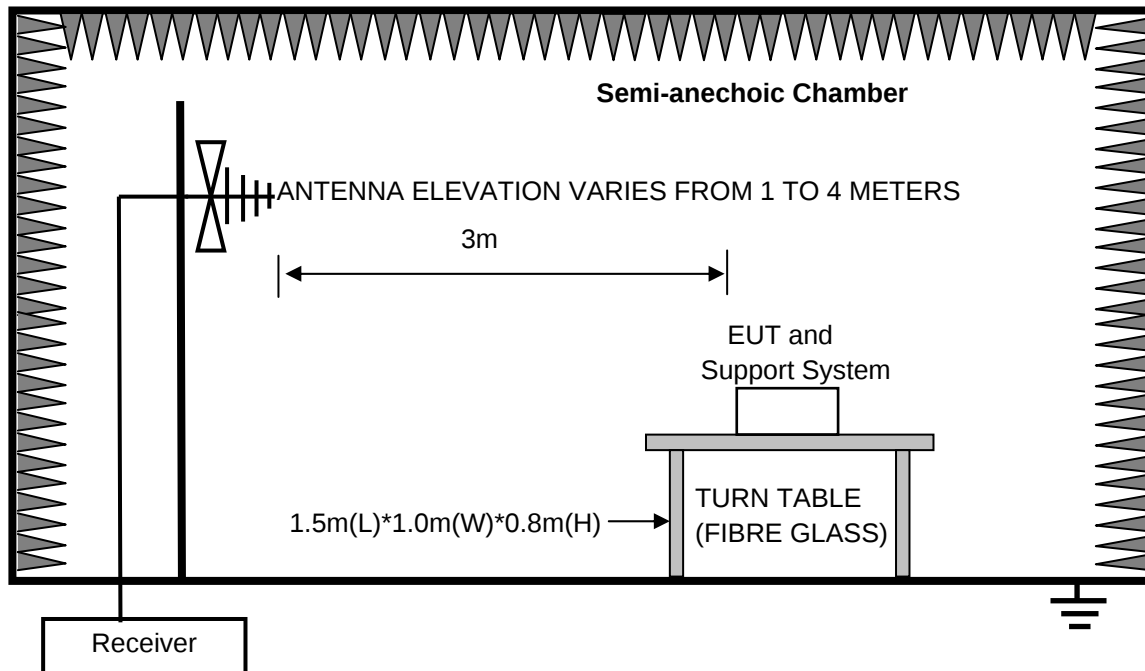
Test Setup

Date of test : Apr. 17, 2024
 Model No. : MegaSys 1
 Input Voltage : AC 120V/60Hz
 Operation Mode : INPUT, Bluetooth Mode

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m distance from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.



Note:

Test uncertainty: ± 4.36 dB (H); ± 4.72 dB (V) at a level of confidence of 95%. (1#966)

Test Data

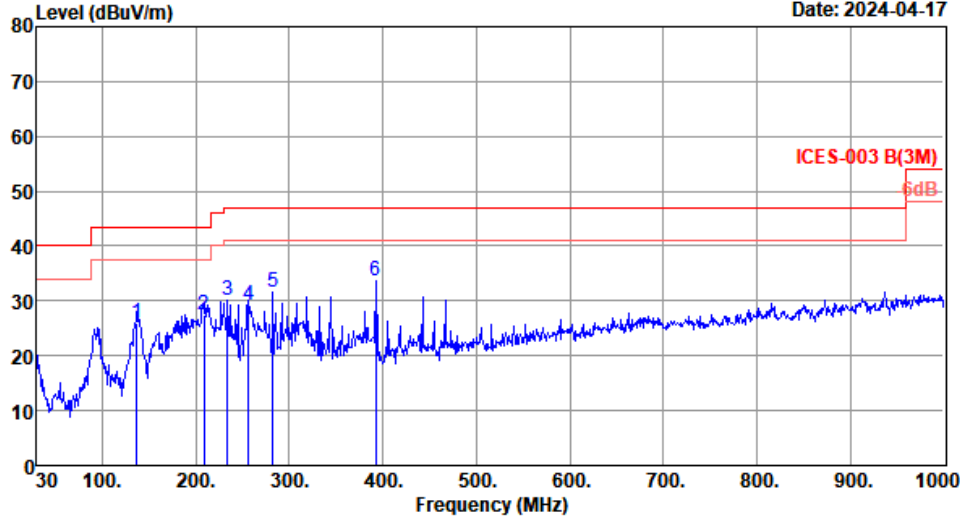
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 66

File: \\EMC-966-1\test data\2024\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 66
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : ICES-003 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	136.70	12.70	1.67	11.55	25.92	43.50	17.58	QP
2	208.48	8.93	2.10	16.42	27.45	43.50	16.05	QP
3	233.70	10.56	2.23	17.35	30.14	47.00	16.86	QP
4	256.01	14.08	2.36	12.75	29.19	47.00	17.81	QP
5	282.20	12.96	2.52	16.03	31.51	47.00	15.49	QP
6	392.78	15.94	3.03	14.58	33.55	47.00	13.45	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

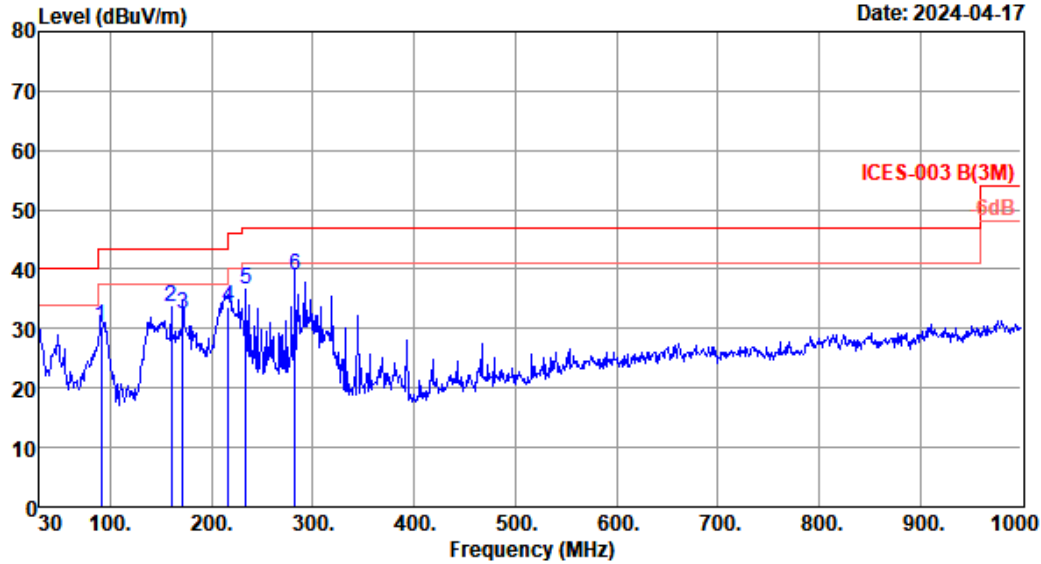
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 67

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 67
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : ICES-003 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.11	10.10	1.34	18.97	30.41	43.50	13.09	QP
2	159.98	11.00	1.82	20.74	33.56	43.50	9.94	QP
3	171.62	9.40	1.89	21.32	32.61	43.50	10.89	QP
4	216.24	9.94	2.14	21.52	33.60	46.00	12.40	QP
5	233.70	10.56	2.23	23.73	36.52	47.00	10.48	QP
6	282.20	12.96	2.52	23.45	38.93	47.00	8.07	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

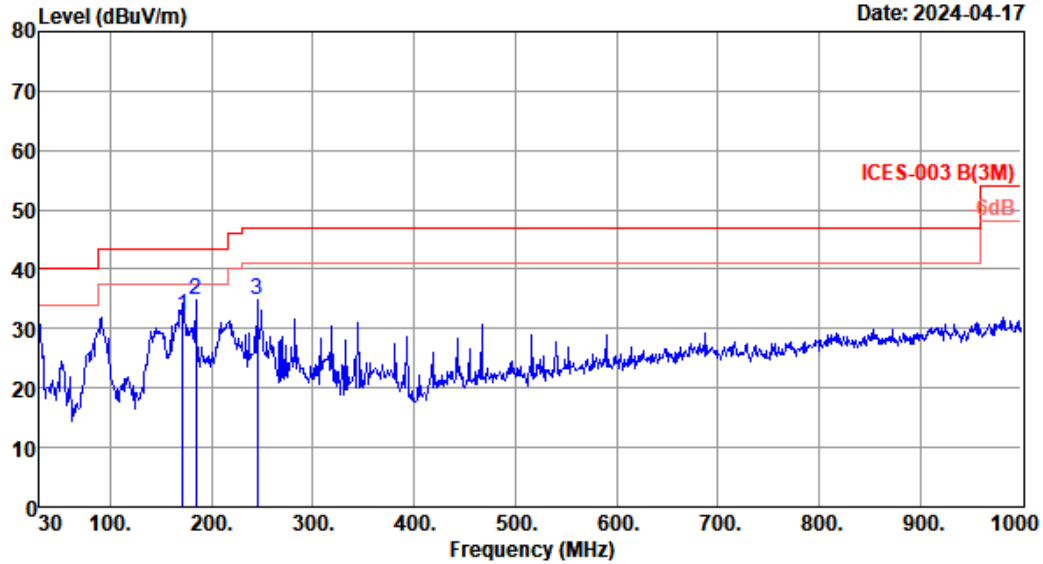
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 68

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 68
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : ICES-003 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	171.62	9.40	1.89	20.87	32.16	43.50	11.34	QP
2	184.23	9.10	1.96	23.84	34.90	43.50	8.60	QP
3	245.34	12.10	2.29	20.49	34.88	47.00	12.12	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

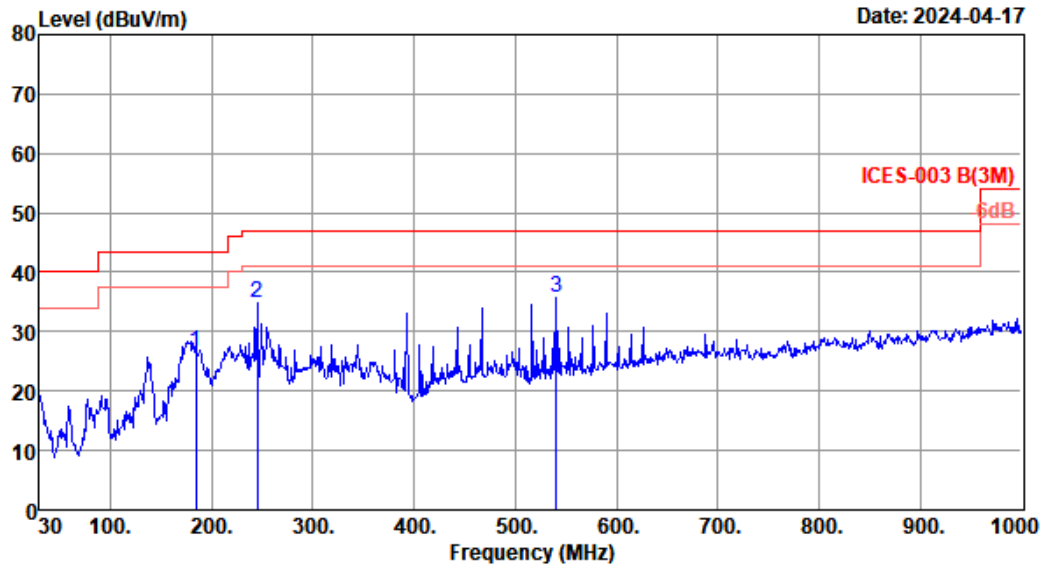
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 69

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 69
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : ICES-003 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	184.23	9.10	1.96	15.56	26.62	43.50	16.88	QP
2	245.34	12.10	2.29	20.39	34.78	47.00	12.22	QP
3	540.22	19.30	3.59	12.95	35.84	47.00	11.16	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

4.3. Radiated Emission Test (above 1GHz)

RESULT : Pass

Test procedure : ANSI C63.4-2014

Frequency : 1GHz-18GHz

Test Site : 966 Chamber

Limits : ICES-003:2020 Class B

Test Setup

Date of test : Apr. 16, 2024

Model No. : MegaSys 1

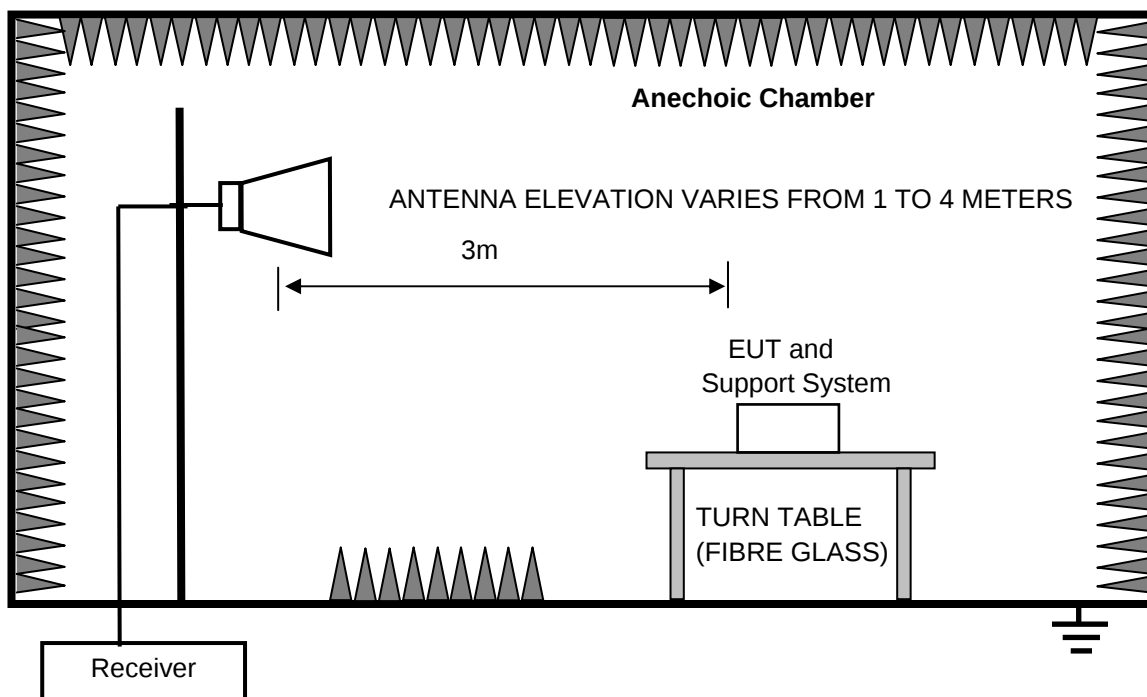
Input Voltage : AC 120V/60Hz

Operation Mode : INPUT, Bluetooth Mode

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector and Average detector from the spectrum, and all the final readings from the test receiver were measured with the Peak detector and Average detector.

The bandwidth setting on the test receiver was 1MHz(above 1GHz).

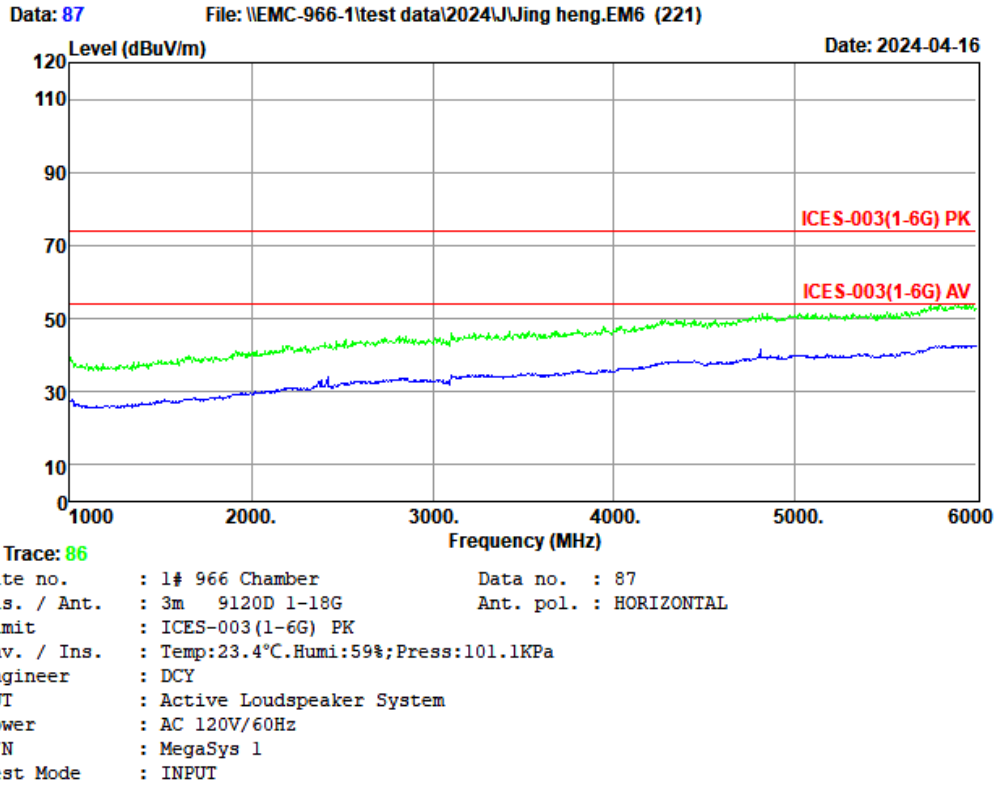


Note: Test uncertainty: $\pm 4.78\text{dB}$ at a level of confidence of 95%.(1-6GHz)
Test uncertainty: $\pm 5.08\text{dB}$ at a level of confidence of 95%.(6-18GHz)

Test Data

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



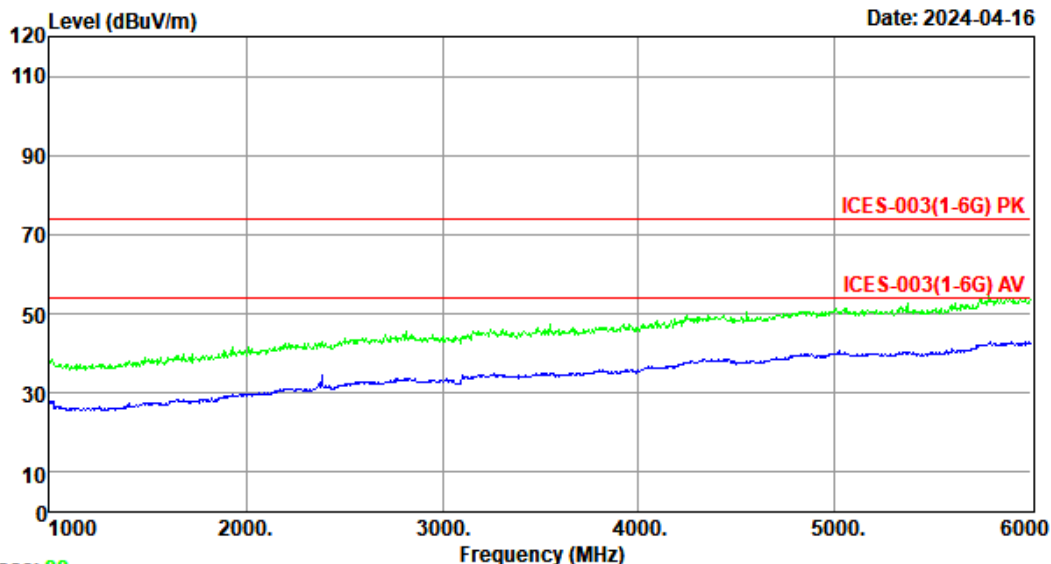
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 89

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 88

Site no.	: 1# 966 Chamber	Data no.	: 89
Dis. / Ant.	: 3m 9120D 1-18G	Ant. pol.	: VERTICAL
Limit	: ICES-003(1-6G) PK		
Env. / Ins.	: Temp:23.4°C.Humi:59%;Press:101.1KPa		
Engineer	: DCY		
EUT	: Active Loudspeaker System		
Power	: AC 120V/60Hz		
M/N	: MegaSys 1		
Test Mode	: INPUT		

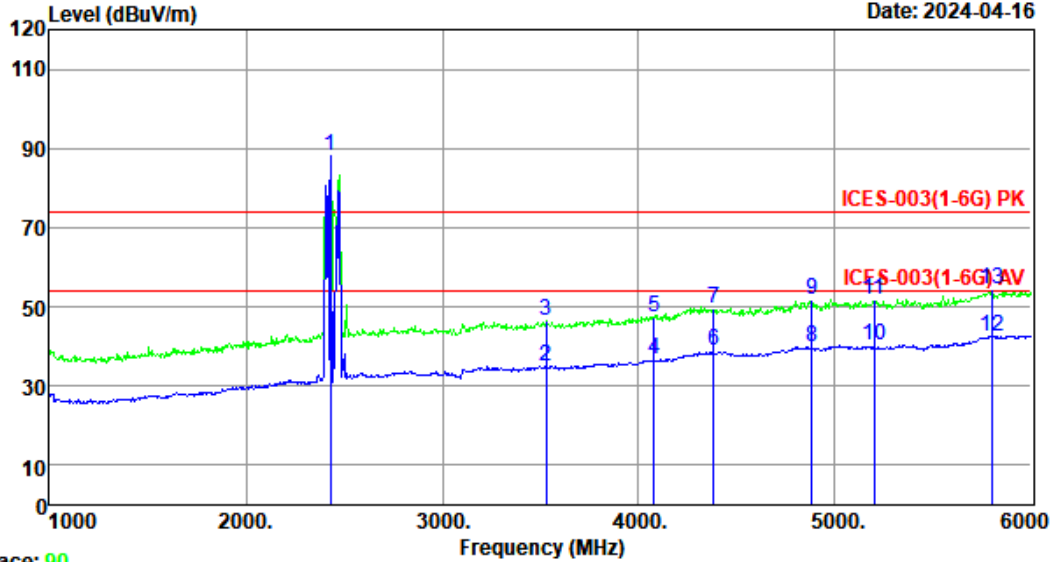
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 91

File: \\EMC-966-1\test data\2024\J\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 90

Site no. : 1# 966 Chamber Data no. : 91
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : ICES-003(1-6G) PK
Env. / Ins. : Temp:23.4°C.Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2430.00	27.33	3.58	57.25	88.16	74.00	-14.16	2.4G TX
2	3530.00	29.83	4.16	1.01	35.00	54.00	19.00	Average
3	3530.00	29.83	4.16	12.40	46.39	74.00	27.61	Peak
4	4080.00	30.87	4.38	1.35	36.60	54.00	17.40	Average
5	4080.00	30.87	4.38	12.10	47.35	74.00	26.65	Peak
6	4380.00	31.40	4.73	2.69	38.82	54.00	15.18	Average
7	4380.00	31.40	4.73	13.40	49.53	74.00	24.47	Peak
8	4880.00	32.40	5.28	2.23	39.91	54.00	14.09	Average
9	4880.00	32.40	5.28	14.10	51.78	74.00	22.22	Peak
10	5200.00	32.90	5.56	1.82	40.28	54.00	13.72	Average
11	5200.00	32.90	5.56	13.50	51.96	74.00	22.04	Peak
12	5800.00	34.10	6.01	2.57	42.68	54.00	11.32	Average
13	5800.00	34.10	6.01	14.40	54.51	74.00	19.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

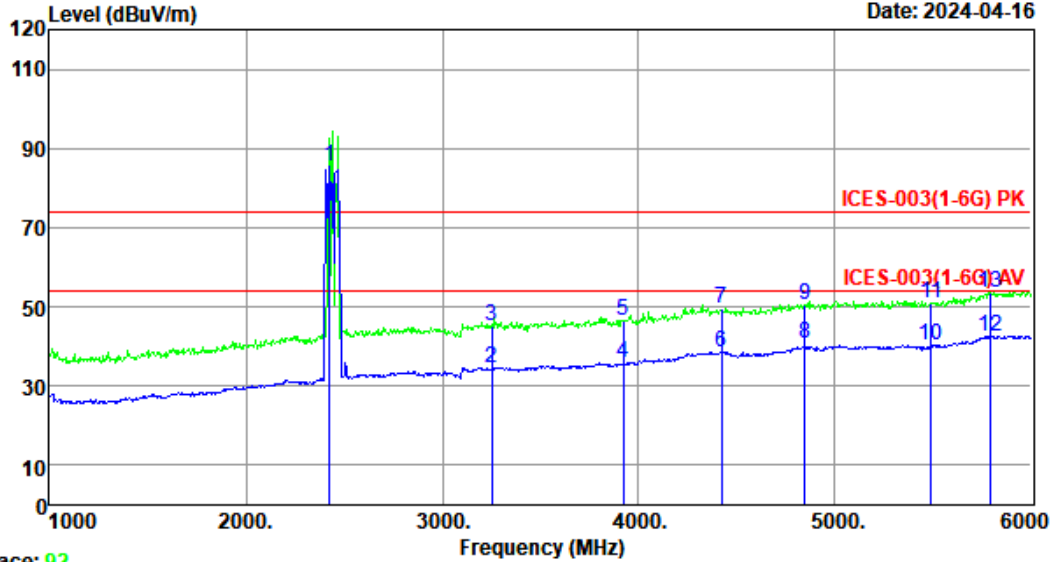
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 93

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 92

Site no. : 1# 966 Chamber Data no. : 93
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : ICES-003(1-6G) PK
Env. / Ins. : Temp:23.4°C.Humi:59%;Press:101.1kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2425.00	27.33	3.58	54.60	85.51	74.00	-11.51	2.4G TX
2	3250.00	29.60	4.08	0.98	34.66	54.00	19.34	Average
3	3250.00	29.60	4.08	11.40	45.08	74.00	28.92	Peak
4	3920.00	30.30	4.27	1.29	35.86	54.00	18.14	Average
5	3920.00	30.30	4.27	12.10	46.67	74.00	27.33	Peak
6	4420.00	31.40	4.76	2.52	38.68	54.00	15.32	Average
7	4420.00	31.40	4.76	13.40	49.56	74.00	24.44	Peak
8	4845.00	32.20	5.24	3.14	40.58	54.00	13.42	Average
9	4845.00	32.20	5.24	13.20	50.64	74.00	23.36	Peak
10	5490.00	32.77	5.78	1.88	40.43	54.00	13.57	Average
11	5490.00	32.77	5.78	12.50	51.05	74.00	22.95	Peak
12	5790.00	34.10	6.01	2.55	42.66	54.00	11.34	Average
13	5790.00	34.10	6.01	13.40	53.51	74.00	20.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

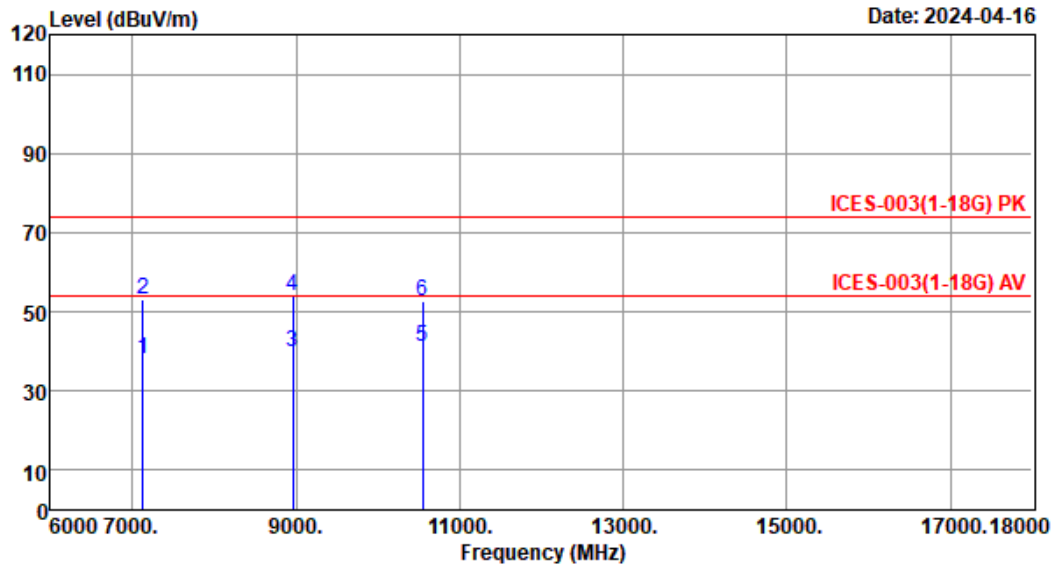
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 98

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Site no. : 1# 966 Chamber Data no. : 98
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : ICES-003(1-18G) PK
Env. / Ins. : Temp:23.4°C.Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7133.00	36.08	5.17	34.42	31.40	38.23	54.00	15.77	Average
2	7133.00	36.08	5.17	34.42	46.49	53.32	74.00	20.68	Peak
3	8963.00	36.90	5.28	35.38	32.90	39.70	54.00	14.30	Average
4	8963.00	36.90	5.28	35.38	47.40	54.20	74.00	19.80	Peak
5	10543.00	39.44	6.03	36.26	31.80	41.01	54.00	12.99	Average
6	10543.00	39.44	6.03	36.26	43.50	52.71	74.00	21.29	Peak

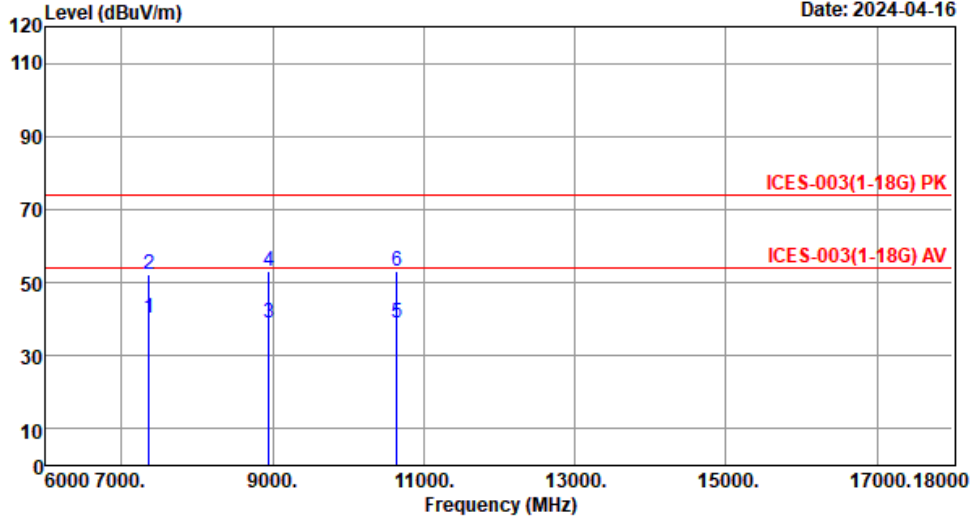
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 99 File: \\EMC-966-1\test data\2024\JJing heng.EM6 (221)

Date: 2024-04-16



Site no. : 1# 966 Chamber Data no. : 99
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : ICES-003(1-18G) PK
Env. / Ins. : Temp:23.4°C.Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7364.00	36.52	5.23	34.47	33.10	40.38	54.00	13.62	Average
2	7364.00	36.52	5.23	34.47	45.10	52.38	74.00	21.62	Peak
3	8946.00	36.90	5.28	35.36	32.20	39.02	54.00	14.98	Average
4	8946.00	36.90	5.28	35.36	46.10	52.92	74.00	21.08	Peak
5	10648.00	39.56	6.05	36.26	29.69	39.04	54.00	14.96	Average
6	10648.00	39.56	6.05	36.26	43.89	53.24	74.00	20.76	Peak

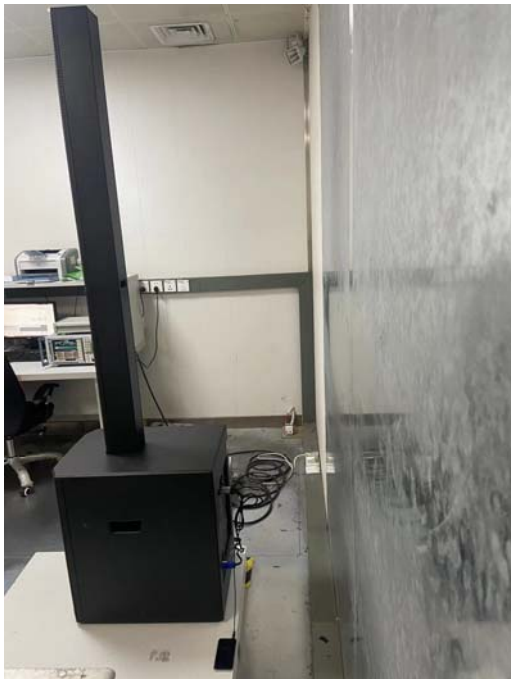
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

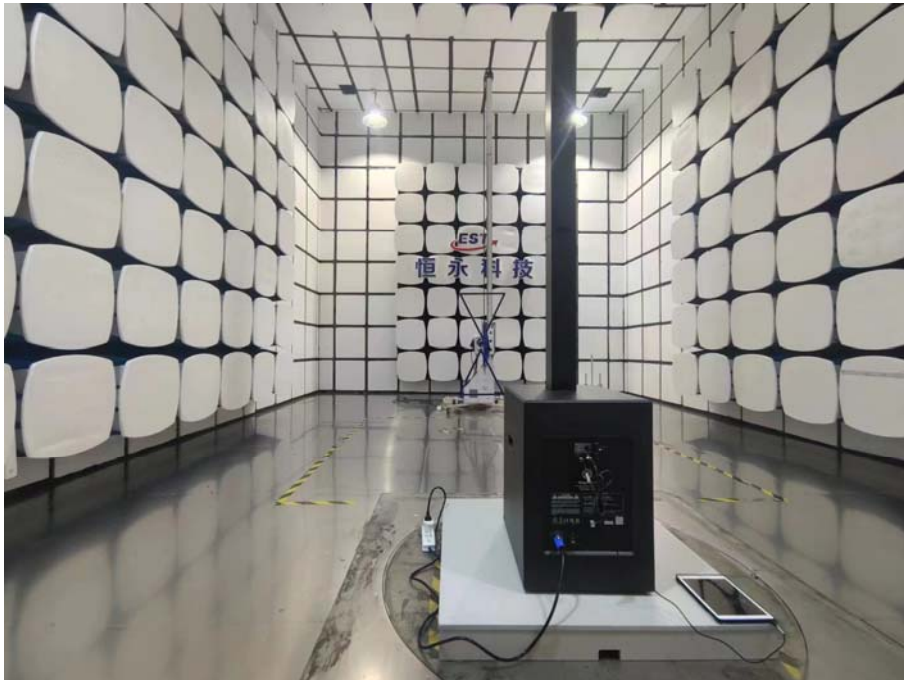
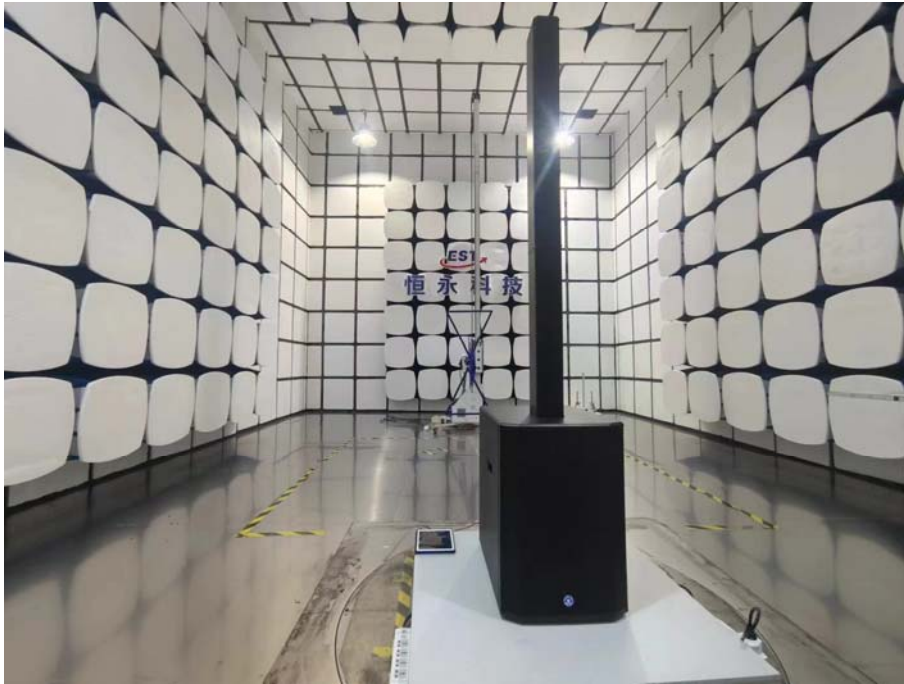
1. The amplitude of 6GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

5. PHOTOGRAPHS OF TEST SET-UP

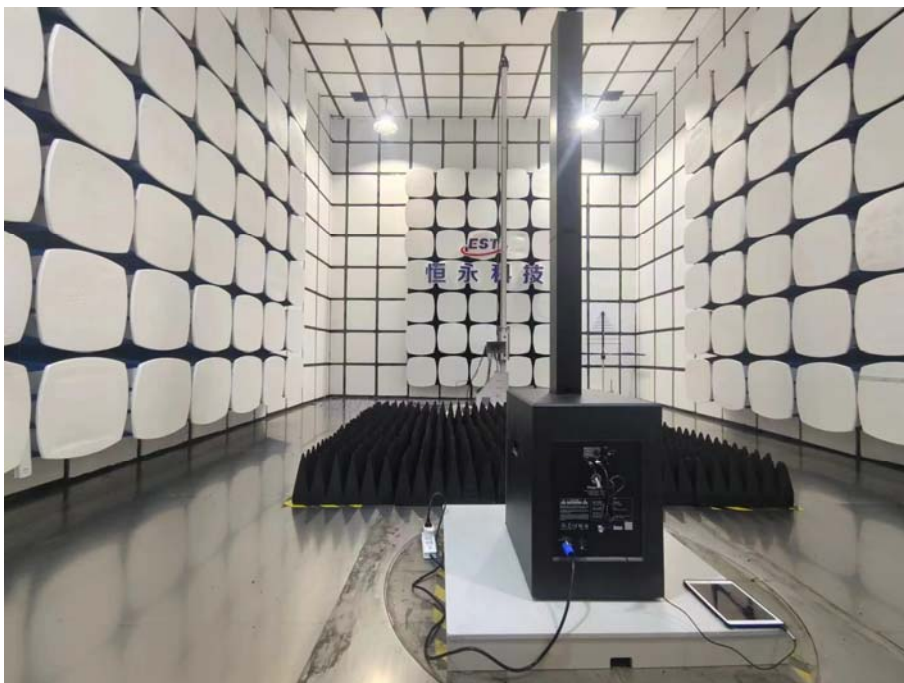
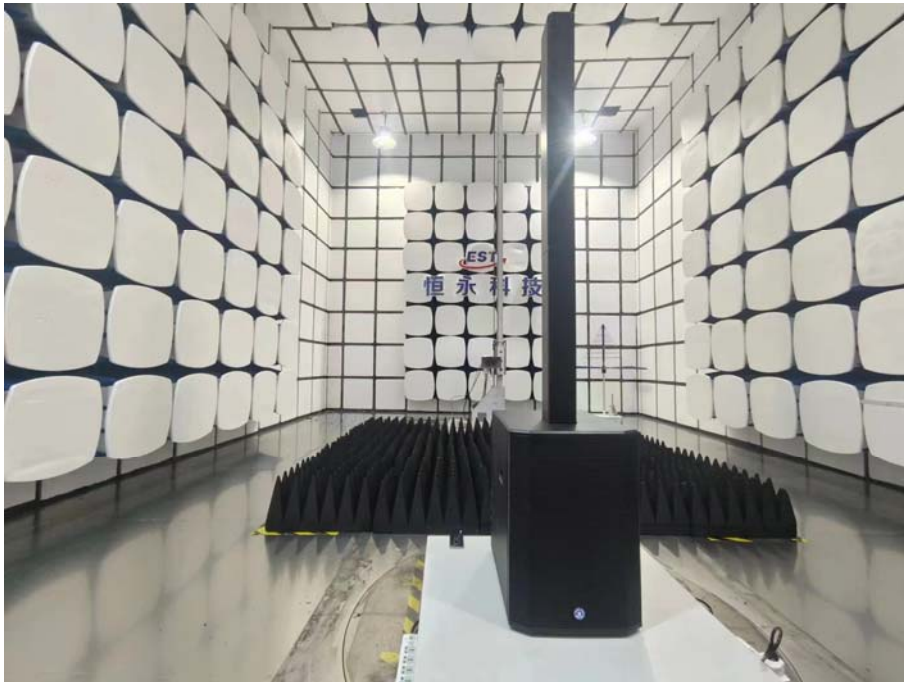
5.1. Set-up for Conducted Emission at the Mains Terminals Test



5.2.Set-up for Radiated Emission Test(30MHz-1000MHz)



5.3.Set-up for Radiated Emission Test(above 1GHz)



6. PHOTOGRAPHS OF THE EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT



Figure 3
General Appearance of the EUT



Figure 4
General Appearance of the EUT



Figure 5
General Appearance of the EUT



Figure 6
General Appearance of the EUT



Figure 7
General Appearance of the EUT



Figure 8
General Appearance of the EUT



Figure 9
General Appearance of the EUT



Figure 10
General Appearance of the EUT



Figure 11
General Appearance of the EUT

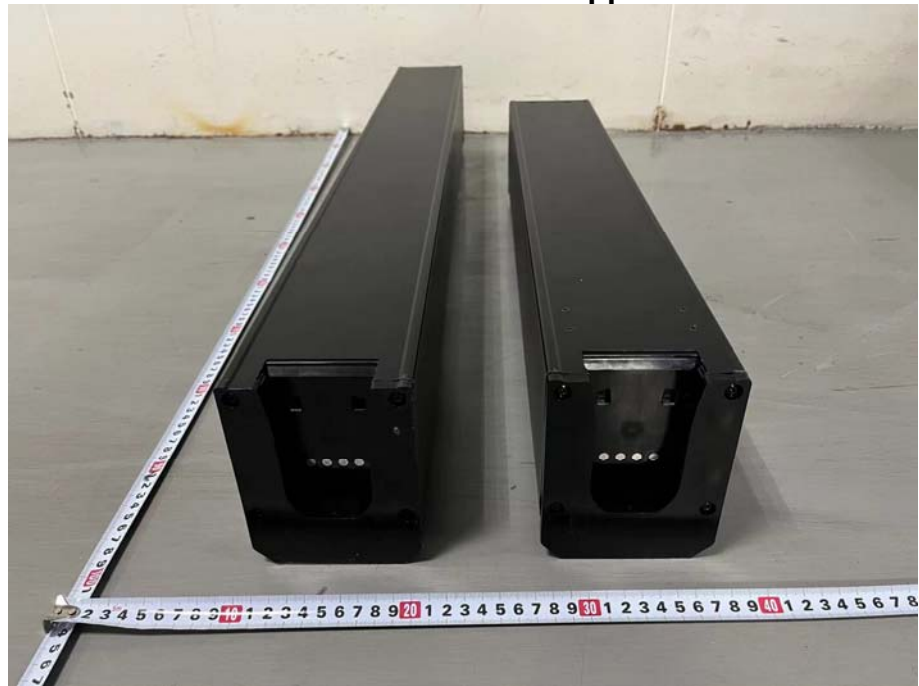


Figure 12
General Appearance of the EUT

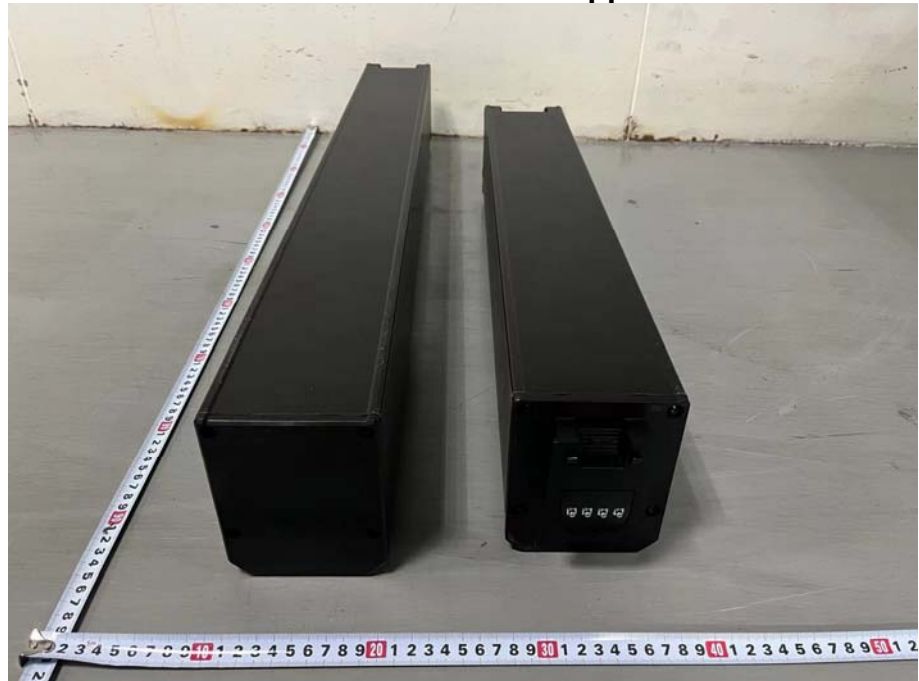


Figure 13
General Appearance of the EUT



Figure 14
General Appearance of the EUT



Figure 15
Inside View of the EUT



Figure 16
Inside View of the EUT

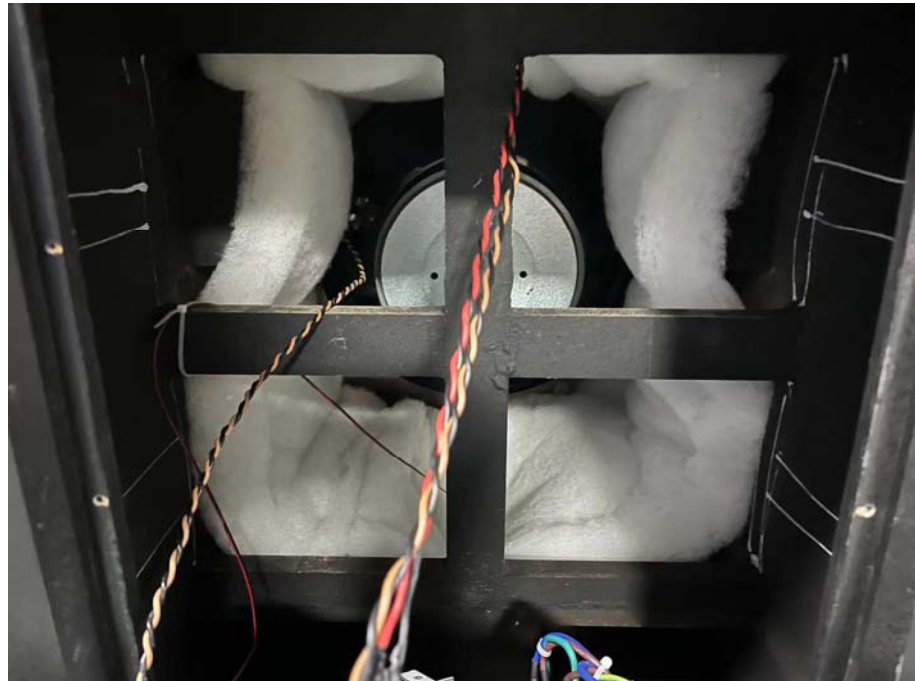


Figure 17
Inside View of the EUT

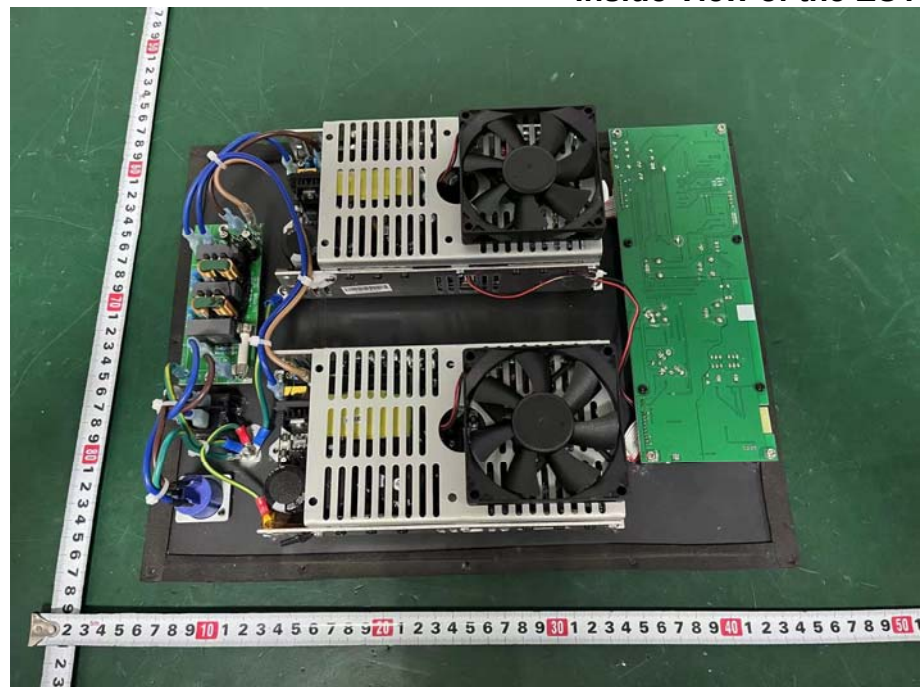


Figure 18
Inside View of the EUT

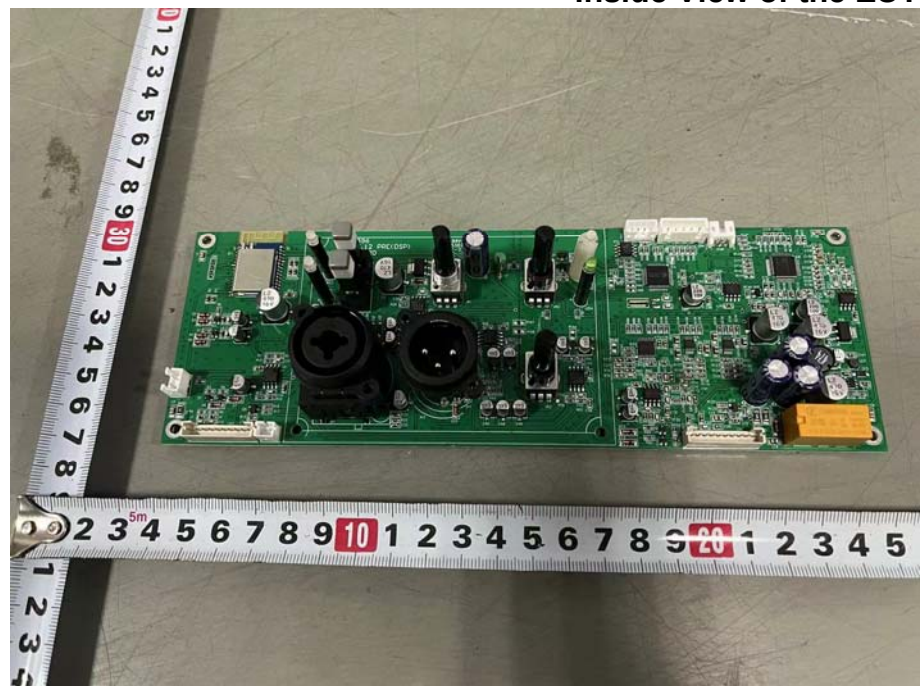


Figure 19
Inside View of the EUT

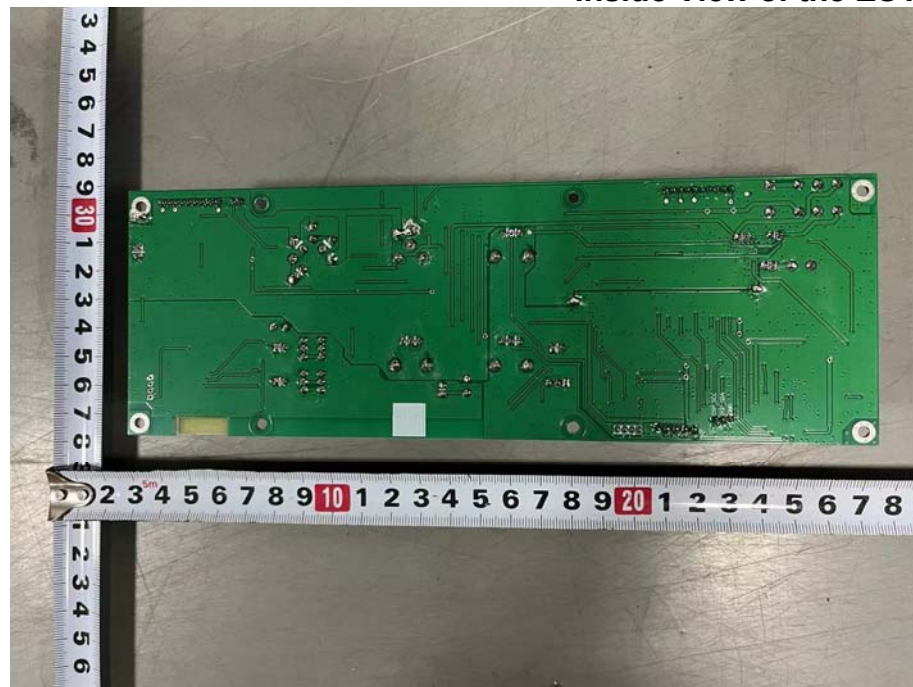


Figure 20
Inside View of the EUT

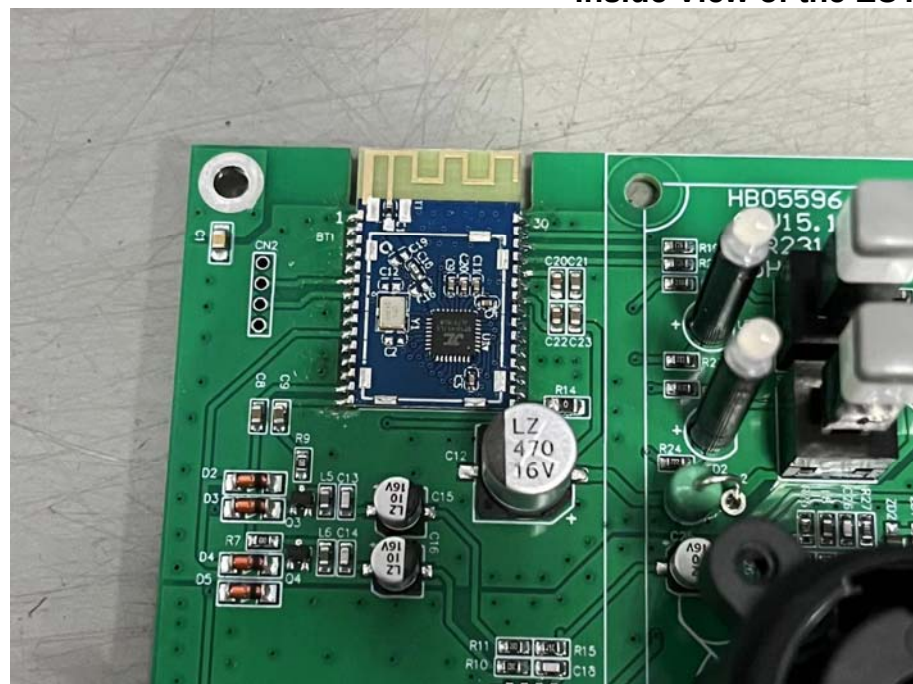


Figure 21
Inside View of the EUT

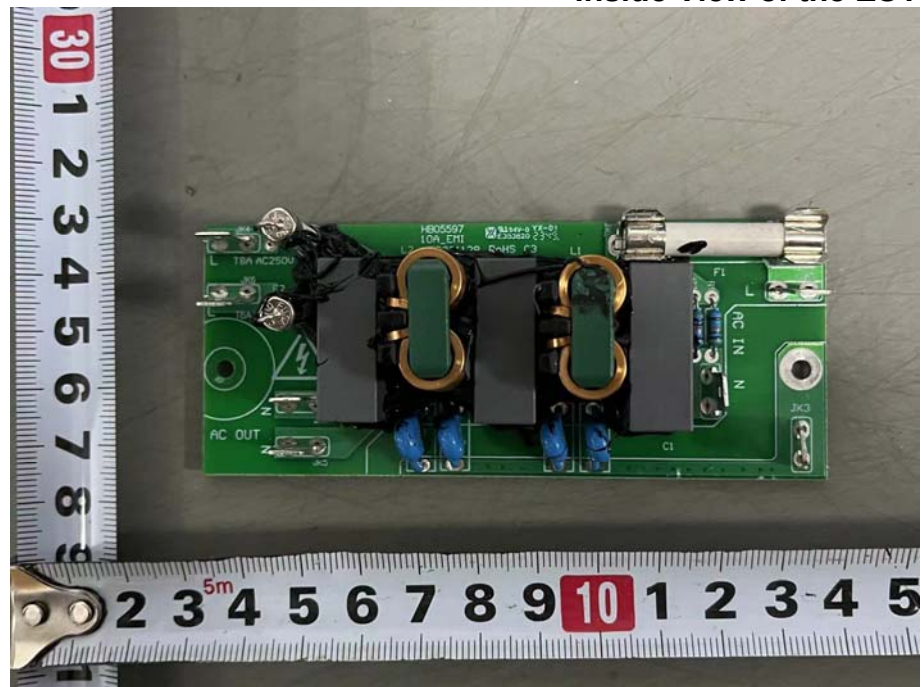


Figure 22
Inside View of the EUT

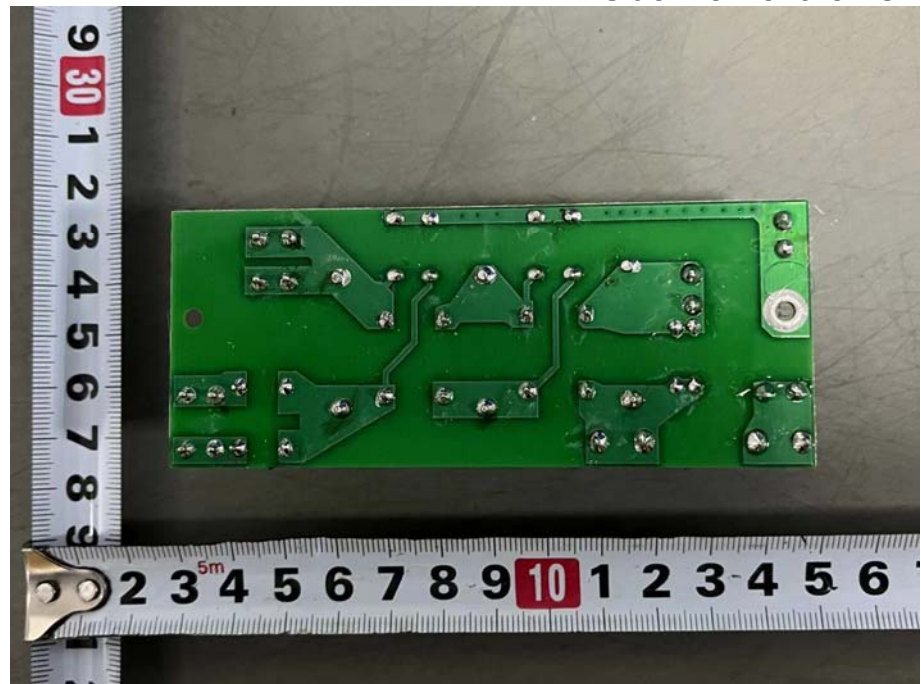


Figure 23
Inside View of the EUT

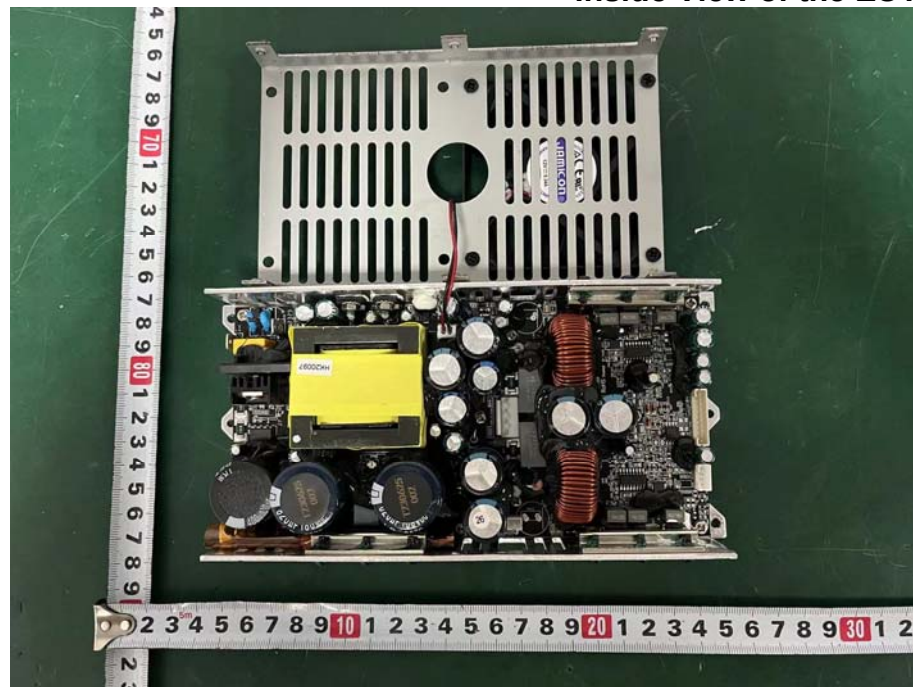


Figure 24
Inside View of the EUT

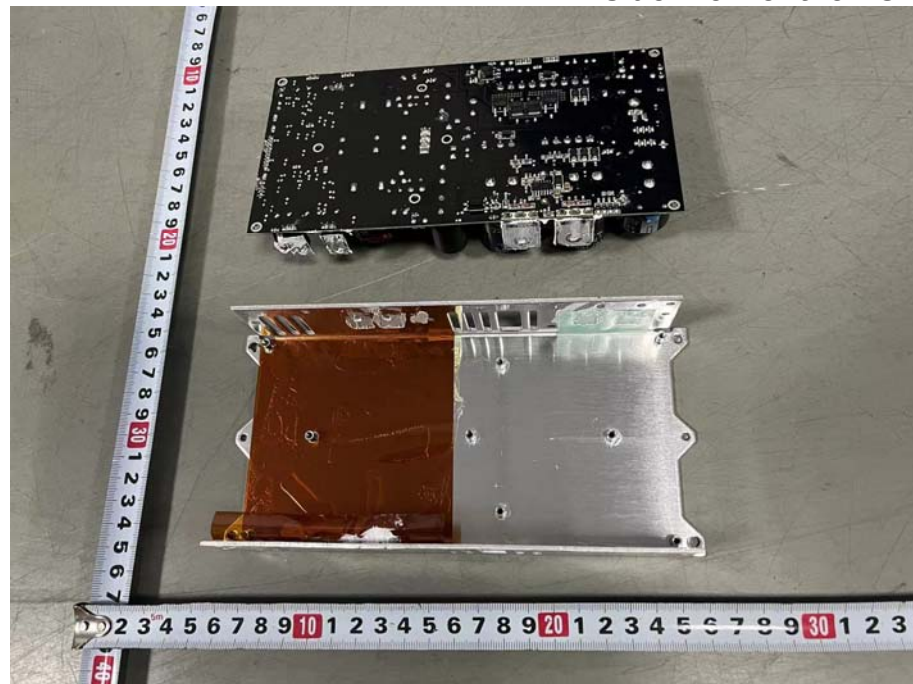


Figure 25
Inside View of the EUT

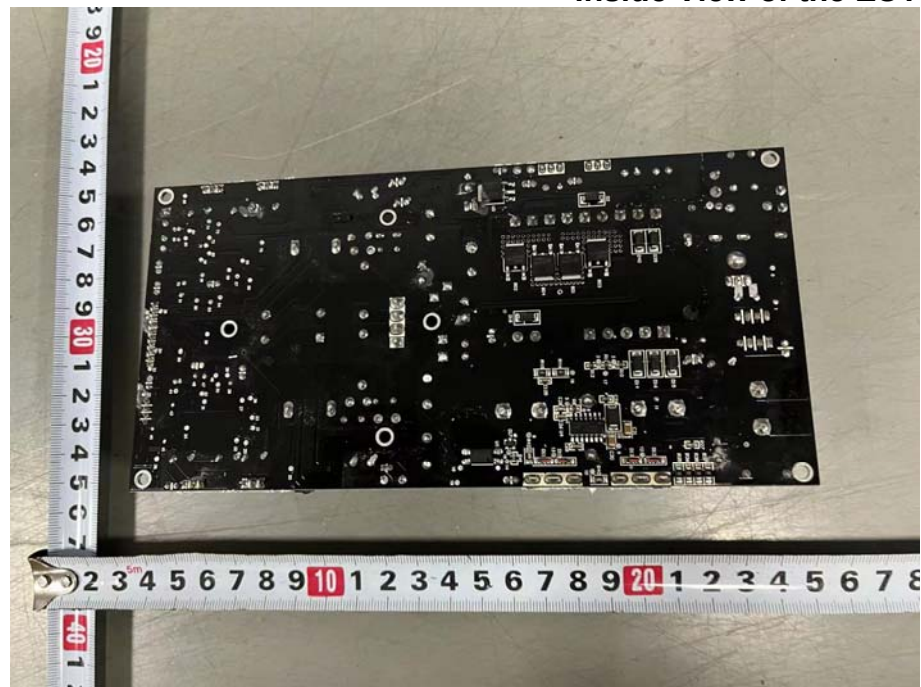


Figure 26
Inside View of the EUT



Figure 27
Inside View of the EUT

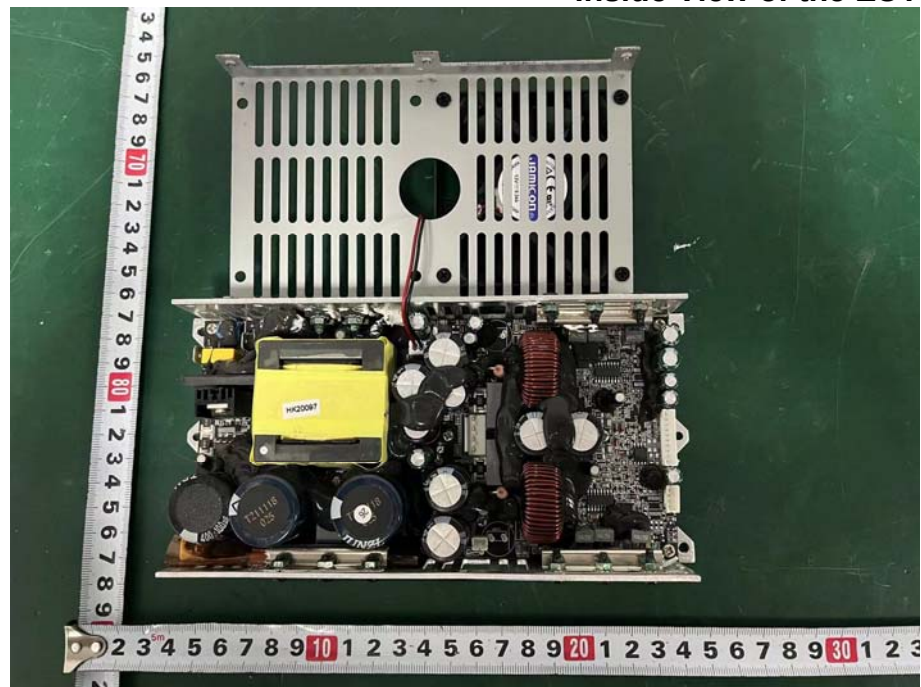


Figure 28
Inside View of the EUT

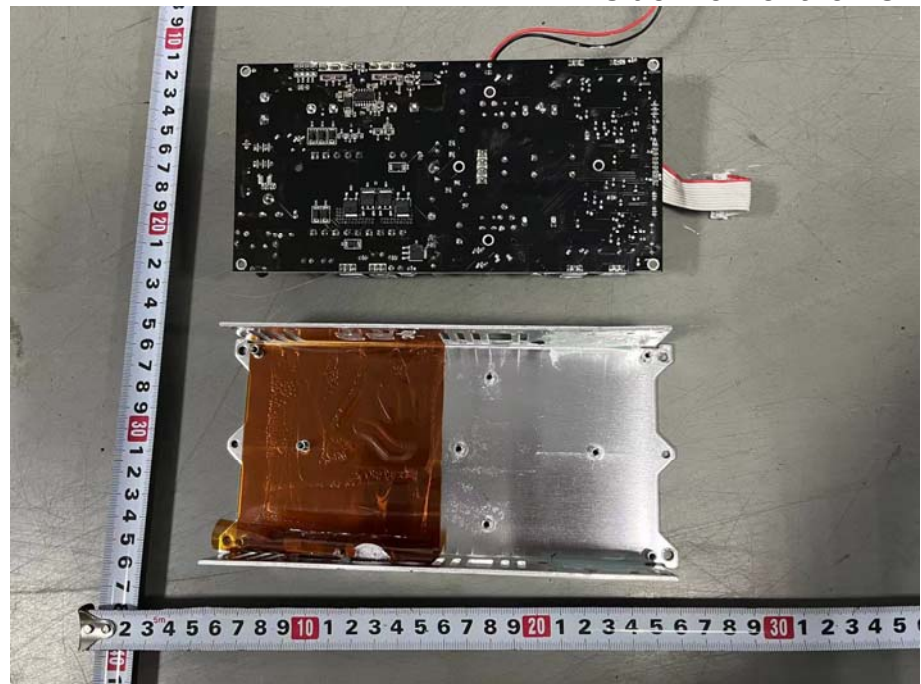


Figure 29
Inside View of the EUT

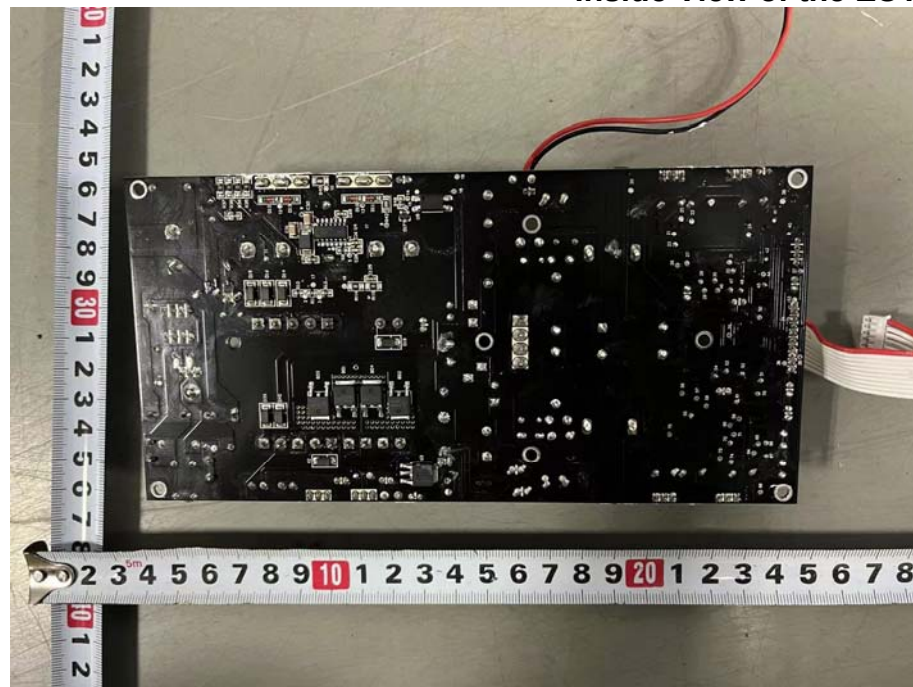
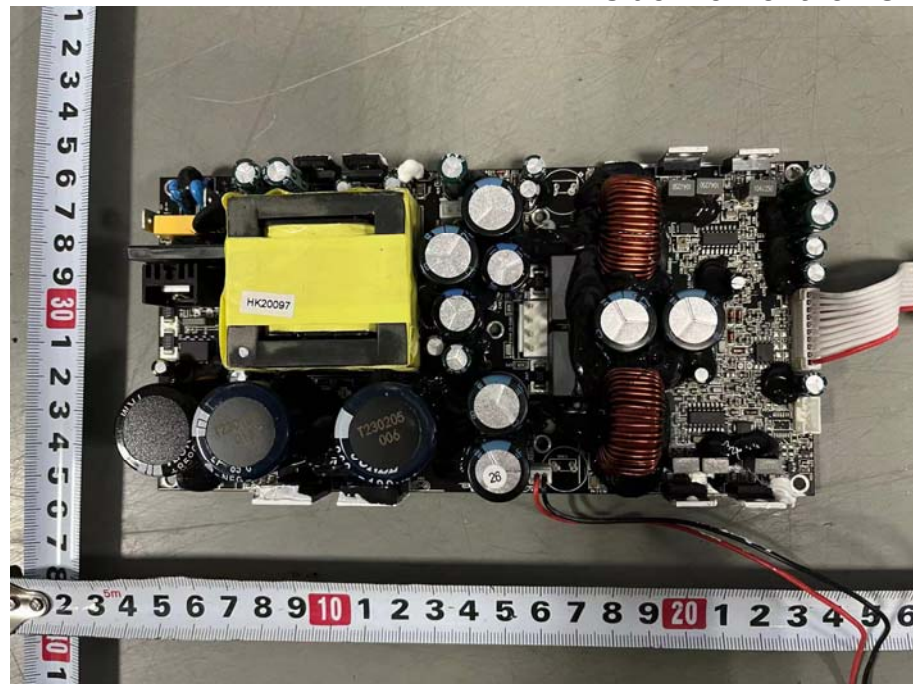


Figure 30
Inside View of the EUT



End of Test Report