

TEST REPORT

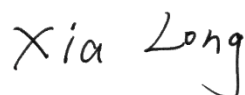
Applicant: MERCHSOURCE, LLC
Address: 7755 Irvine Center Drive, Suite 100, Irvine, CA US
Equipment Type: Alarm Clock with wireless Charging
Model Name: 1018255 (refer to section 2.3)
Brand Name: Sharper Image
FCC ID: 2AEVM1018255
Test Standard: 47 CFR Part 15 Subpart C
ANSI C63.10-2013
Sample Arrival Date: Jul. 04, 2024
Test Date: Jul. 09, 2024 - Jul. 16, 2024
Date of Issue: Jul. 31, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Liu Chenfang**Checked by:** Xia Long**Approved by:** Liao Jianming

(Technical Director)



Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 31, 2024</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information	4
2.3	General Description for Equipment under Test (EUT)	4
2.4	Technical Information	4
3	SUMMARY OF TEST RESULTS	5
3.1	Test Standards	5
3.2	Verdict	5
3.3	Test Uncertainty	5
4	GENERAL TEST CONFIGURATIONS	6
4.1	Test Environments	6
4.2	Test Setups	6
5	TEST ITEMS	8
5.1	Antenna Requirements	8
5.2	Emission Tests	9
ANNEX A	TEST RESULTS	13
A.1	Radiated Emission	13
A.2	Conducted Emission	19
A.3	20 dB Bandwidth	23
ANNEX B	TEST SETUP PHOTOS	25
ANNEX C	EUT EXTERNAL PHOTOS	25
ANNEX D	EUT INTERNAL PHOTOS	25

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MERCHSOURCE, LLC
Address	7755 Irvine Center Drive, Suite 100, Irvine, CA US

2.2 Manufacturer Information

Manufacturer	Ningbo Winpex Imp. & Exp. Co. Ltd
Address	No.239, Wanshan Rd, Jiangbei District, Ningbo, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Alarm Clock with wireless Charging
Model Name Under Test	1018255
Series Model Name	101**** (where **** can be digits 0000-9999 which represent different customers)
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	W0269-CHRG-A1
Software Version	IP6806_AA_UE6JL__V3.12_W0258
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Qi
-----------------------------------	----

The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	110.1 ~ 205 kHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type	Coil Antenna

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Verdict
1	Antenna Requirement	15.203	Pass ^{Note 1}
2	Radiated Emission	15.209,15.215(b)	Pass
3	Conducted Emission, AC Ports	15.207	Pass
4	20 dB Bandwidth	15.215(c)	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note 2: The EUT has two test modes as follow:

Mode1: EUT + Type-C Cable + Adapter + Load Plate

Mode2: EUT + Type-C Cable + Adapter

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	3.2 dB
Radiated emissions (9 kHz-30 MHz)	4.3 dB
Radiated emissions (30 MHz-1 GHz)-10m	4.3 dB

4 GENERAL TEST CONFIGURATIONS

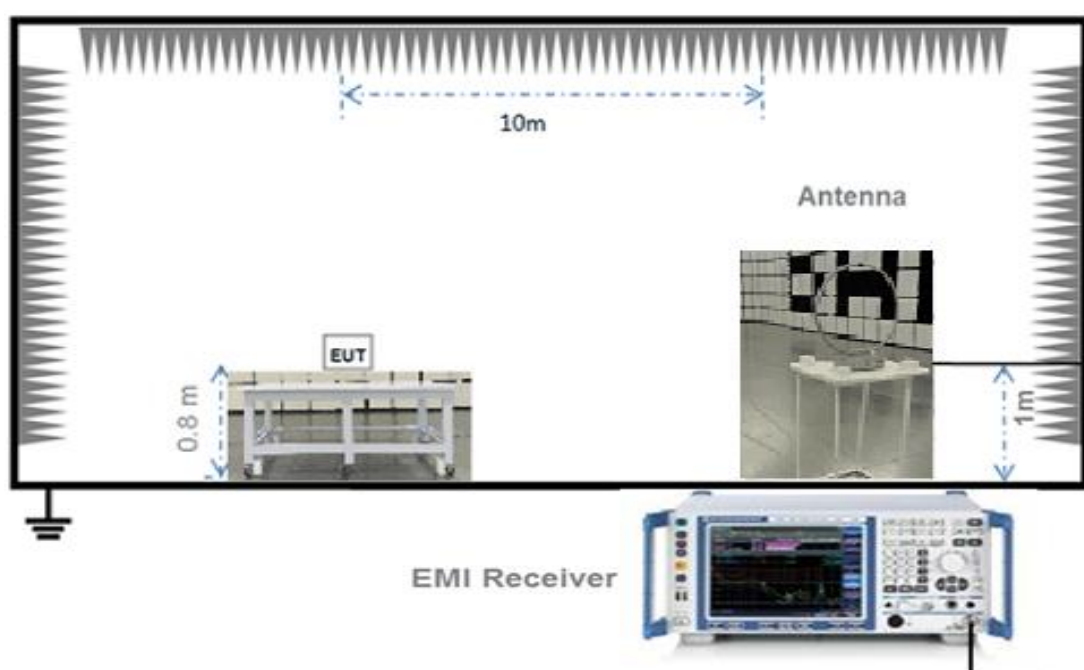
4.1 Test Environments

Relative Humidity	51% to 63%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+23.9°C to +25.7°C
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V

4.2 Test Setups

Test Setup 1

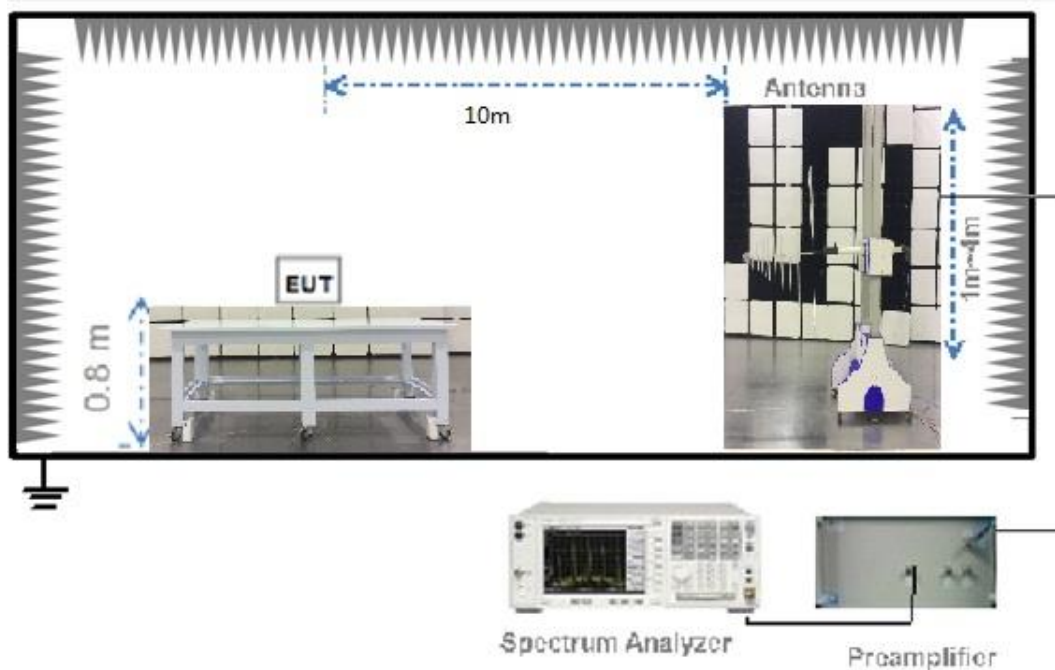
Radiated Test (Below 30 MHz)



(Diagram 1)

Test Setup 2

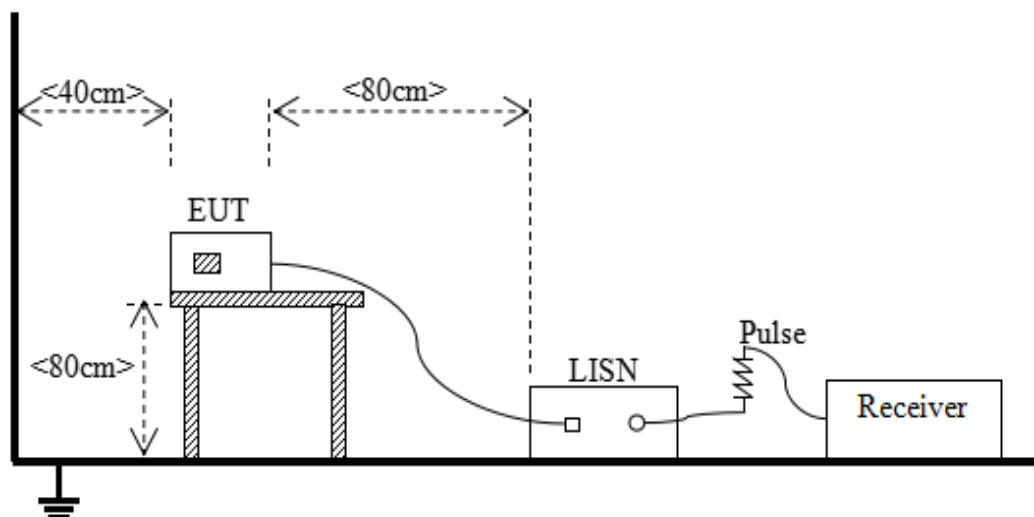
Radiated Test (30 MHz-1 GHz)



(Diagram 2)

Test Setup 3

AC Power Supply Port Test



(Diagram 3)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer EUT internal photos.

5.2 Emission Tests

5.2.1 Radiated Emission

5.2.1.1 Limit

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

- 1) Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics: $54 \text{ dB}\mu\text{V/m}@3 \text{ m (AV)}$ and $74 \text{ dB}\mu\text{V/m}@3 \text{ m (PK)}$
- 4) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). For example, at the frequency 9 kHz, limit @10m = $20 \times \log (2400/f) + 40 \log (d_{\text{limit}}/d_{\text{measure}})$ where limit = 300m, $d_{\text{measure}}=10\text{m}$. limit @10m = $20 \times \log (2400/9) + 40 \log (300/10) = 107.5 \text{ (dB}\mu\text{V/m)}$.
- 5) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided, When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements). For example, at the frequency 30 MHz, limit @10m = $20 \times \log (100) + 20 \log (d_{\text{limit}}/d_{\text{measure}})$ where limit = 3m, $d_{\text{measure}}=10\text{m}$. limit @10m = $20 \times \log (100) + 20 \log (3/10) = 29.5 \text{ (dB}\mu\text{V/m)}$.

5.2.1.2 Test Setup

Refer to 4.2 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.2.1.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test

condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $30 \text{ MHz} < f < 1 \text{ GHz}$, 10 kHz for $150 \text{ kHz} < f < 30 \text{ MHz}$,
300 Hz for $f < 150 \text{ kHz}$

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.2.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Margin = Limit – Results

5.2.2 Conduct Emission

5.2.2.1 Test Limit

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.2.2.2 Test Setup

Refer to 4.2 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

5.2.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω/50 μH of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

NOTE:

1. Results (dBμV) = Reading (dBμV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Margin = Limit – Results

5.2.3 20 dB Bandwidth

5.2.3.1 Limit

FCC §15.215(c)

The 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth ($10 \cdot \log 1\% = 20$ dB) taking the total RF output power.

5.2.3.2 Test Setup

Refer to 4.2 section test (test setup 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3.3 Test Procedure

The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 2 to 5 times the OBW

RBW = 1% to 5% the OBW

VBW $\geq$ 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

The 99% emission bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 1.5 to 5 times the OBW

RBW = 1% to 5% OBW

VBW $\geq$ 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.2.3.4 Test Result and Test Equipment List

Please refer to ANNEX A.3.

ANNEX A TEST RESULTS

A.1 Radiated Emission

Note 1: The marked spikes near 0.120 MHz with circle should be ignored because they are Qi carrier frequencies.

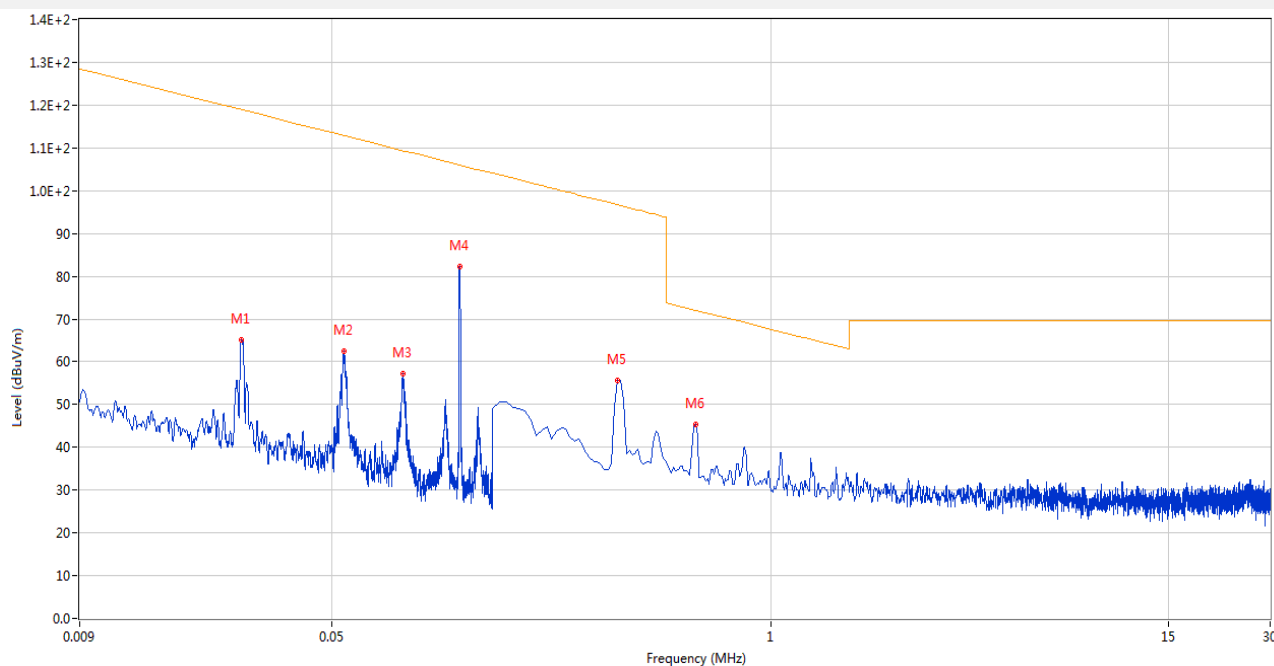
Note 2: All Radiated Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

Sample No.	S01	Temperature	25.7℃
Humidity	51%RH	Pressure	101kPa
Test Engineer	Xi Zifeng	Test Date	2024.07.16

Test Data and Plot

Mode 1

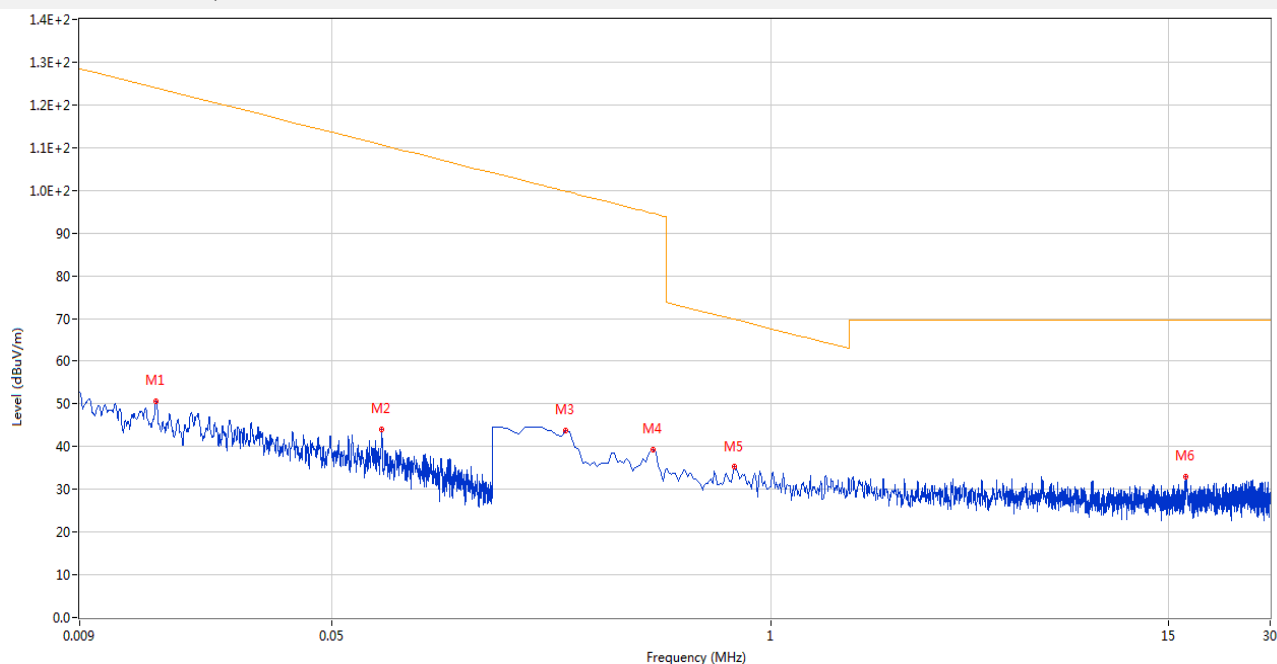
9 kHz to 30 MHz, ANT-H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.027	65.15	20.25	119.0	53.85	Peak	94.00	100	Horizontal	Pass
2	0.054	62.41	20.21	112.9	50.49	Peak	9.00	100	Horizontal	Pass
3	0.082	57.23	20.19	109.4	52.17	Peak	11.00	100	Horizontal	Pass
4	0.120	82.14	20.16	106.0	23.86	Peak	48.00	100	Horizontal	Pass
5	0.351	55.59	20.16	96.7	41.11	Peak	196.00	100	Horizontal	Pass
6	0.598	45.42	20.33	72.1	26.68	Peak	180.00	100	Horizontal	Pass

Mode 2

9 kHz to 30 MHz, ANT-H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.015	50.65	20.10	124.0	73.35	Peak	106.00	100	Horizontal	Pass
2	0.070	44.11	20.17	110.6	66.49	Peak	301.00	100	Horizontal	Pass
3	0.247	43.76	20.13	99.7	55.94	Peak	52.00	100	Horizontal	Pass
4	0.449	39.35	20.21	94.6	55.25	Peak	48.00	100	Horizontal	Pass
5	0.777	35.20	20.45	69.8	34.60	Peak	328.00	100	Horizontal	Pass
6	16.896	33.06	20.94	69.5	36.44	Peak	125.00	100	Horizontal	Pass

Note: The EUT in standby mode will not emit Qi signals.

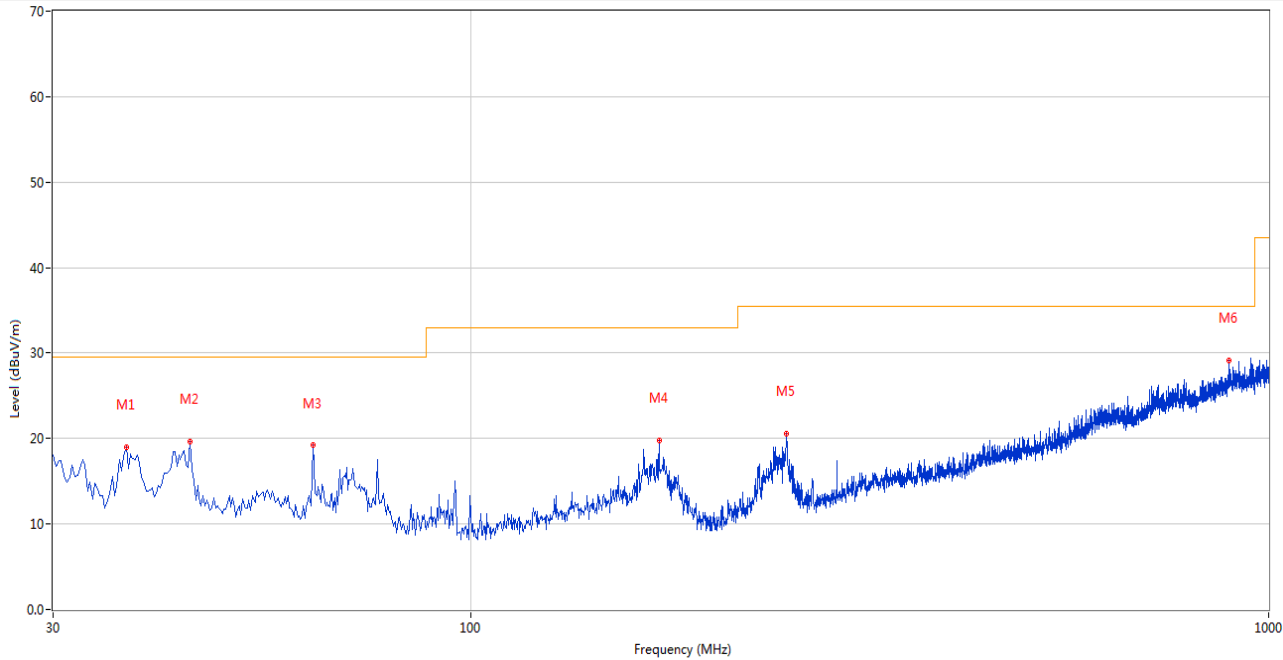
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCH WARZ	ESRP	101036	2023.09.05	2024.09.04	☒
Test Antenna-Loop	SCHWARZBE CK	FMZB 1519	1519-037	2024.01.23	2027.01.22	☒
Anechoic Chamber (10m)	EMC TECHNOLOGY LTD	20.1m*11.6m* 7.35m	130	2021.08.15	2024.08.14	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

Sample No.	S01	Temperature	24.6℃
Humidity	52%RH	Pressure	101kPa
Test Engineer	Xi Zifeng	Test Date	2024.07.09

Test Data and Plot

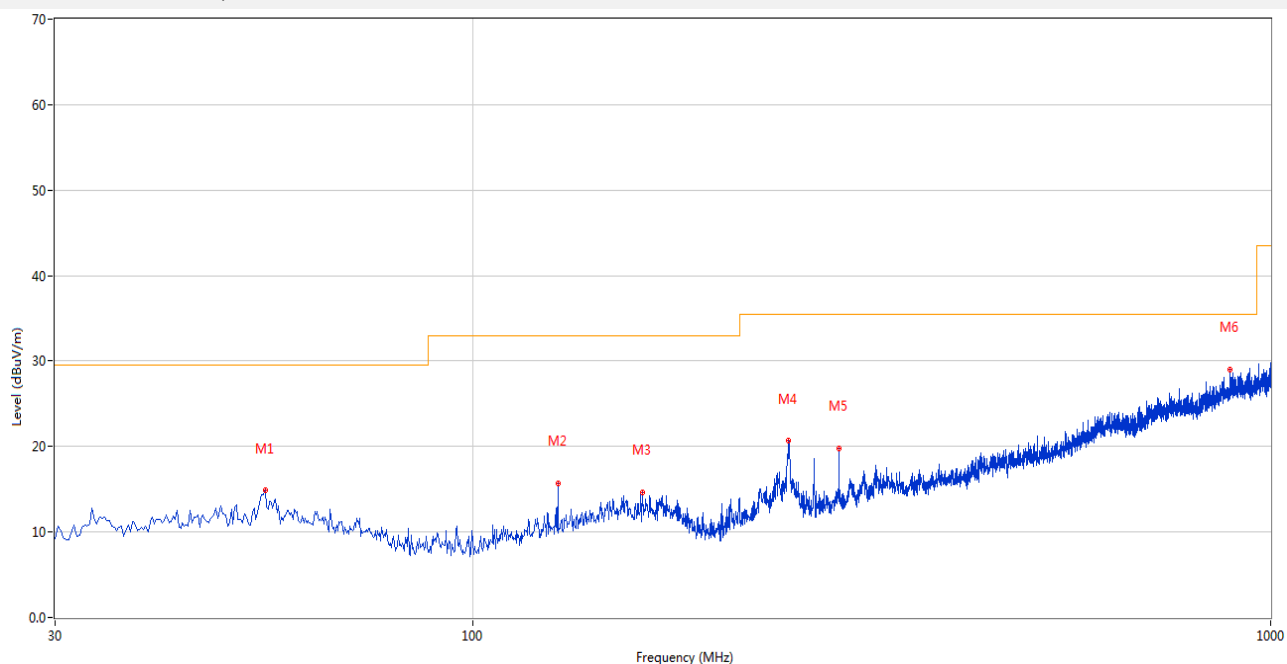
Mode 1

30 MHz to 1 GHz, ANT-V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.031	18.97	-27.14	29.5	10.53	Peak	62.00	100	Vertical	Pass
2	44.546	19.69	-26.06	29.5	9.81	Peak	177.00	100	Vertical	Pass
3	63.457	19.18	-27.01	29.5	10.32	Peak	124.00	100	Vertical	Pass
4	172.312	19.79	-26.33	33.0	13.21	Peak	233.00	100	Vertical	Pass
5	248.923	20.56	-26.75	35.5	14.94	Peak	223.00	100	Vertical	Pass
6	892.842	29.12	-10.56	35.5	6.38	Peak	360.00	200	Vertical	Pass

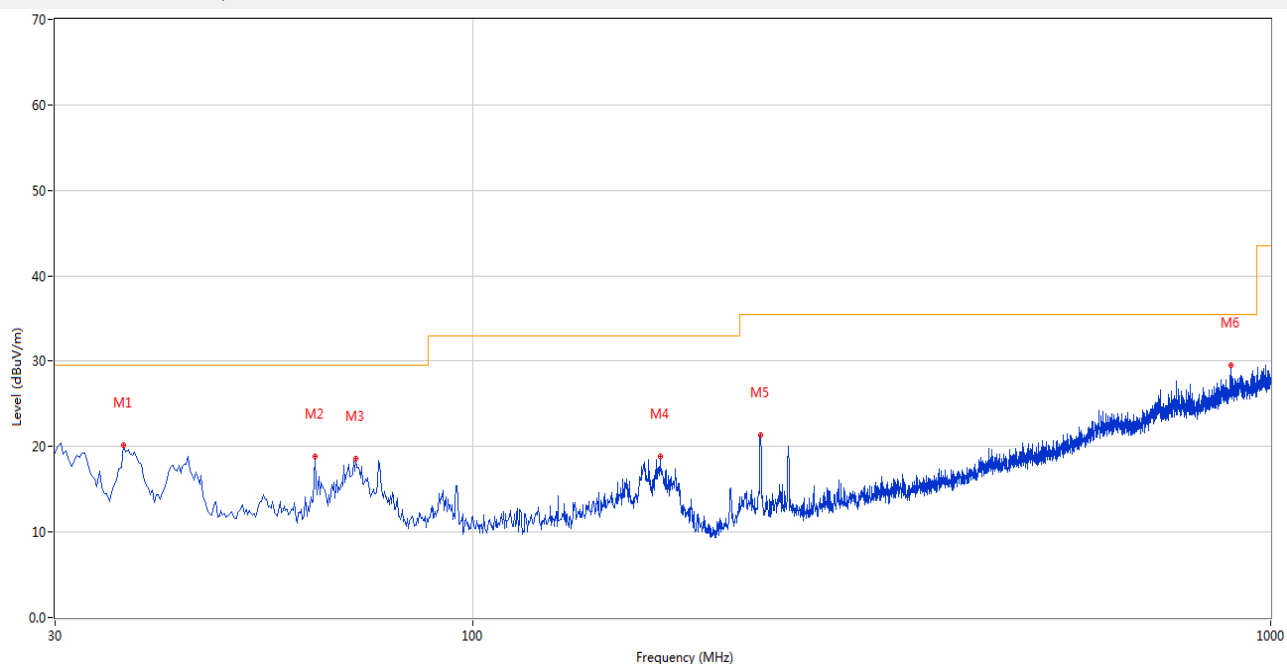
30 MHz to 1 GHz, ANT-H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.971	14.84	-26.13	29.5	14.66	Peak	10.00	100	Horizontal	Pass
2	127.946	15.68	-27.27	33.0	17.32	Peak	276.00	100	Horizontal	Pass
3	163.342	14.62	-25.72	33.0	18.38	Peak	109.00	200	Horizontal	Pass
4	248.923	20.64	-26.75	35.5	14.86	Peak	283.00	200	Horizontal	Pass
5	287.956	19.76	-25.18	35.5	15.74	Peak	317.00	200	Horizontal	Pass
6	888.478	28.99	-10.89	35.5	6.51	Peak	0.00	200	Horizontal	Pass

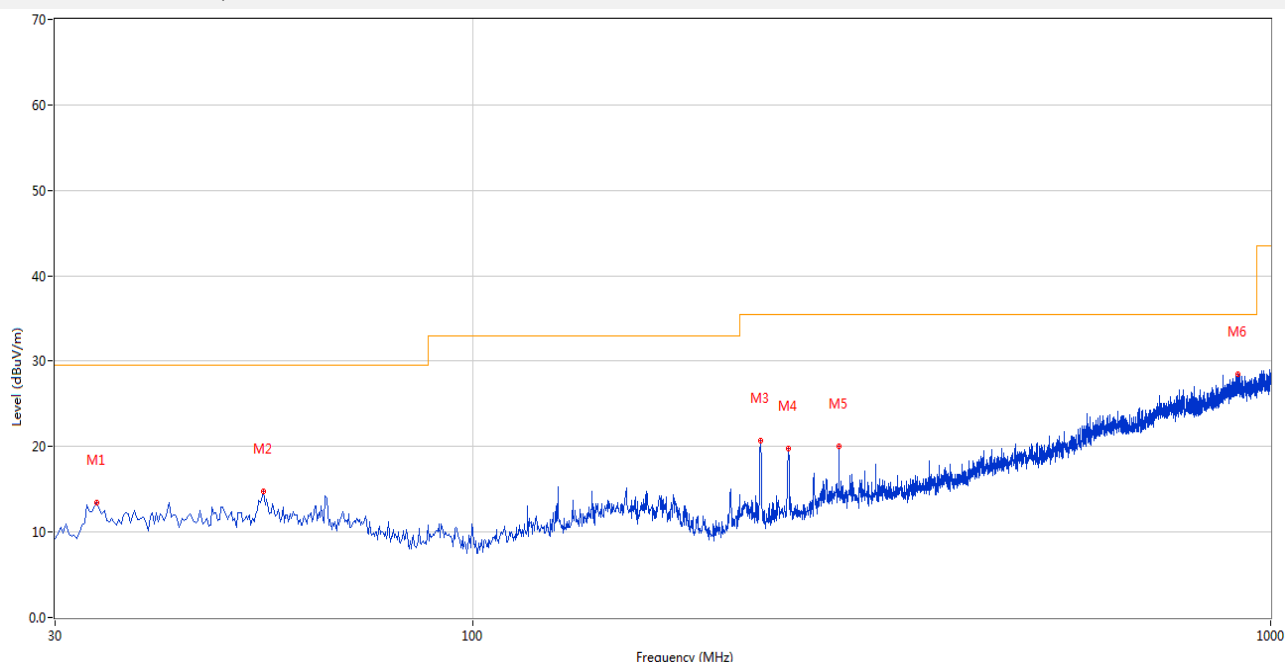
Mode 2

30 MHz to 1 GHz, ANT-V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.546	20.23	-27.15	29.5	9.27	Peak	120.00	100	Vertical	Pass
2	63.457	18.87	-27.01	29.5	10.63	Peak	86.00	100	Vertical	Pass
3	71.457	18.61	-28.50	29.5	10.89	Peak	329.00	200	Vertical	Pass
4	171.827	18.90	-26.31	33.0	14.10	Peak	338.00	100	Vertical	Pass
5	229.528	21.41	-28.54	35.5	14.09	Peak	217.00	100	Vertical	Pass
6	892.114	29.52	-10.65	35.5	5.98	Peak	273.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT-H



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.879	13.43	-27.25	29.5	16.07	Peak	301.00	100	Horizontal	Pass
2	54.729	14.79	-26.12	29.5	14.71	Peak	295.00	200	Horizontal	Pass
3	229.528	20.70	-28.54	35.5	14.80	Peak	128.00	200	Horizontal	Pass
4	248.438	19.74	-26.80	35.5	15.76	Peak	305.00	200	Horizontal	Pass
5	287.956	20.06	-25.18	35.5	15.44	Peak	277.00	200	Horizontal	Pass
6	910.297	28.46	-10.67	35.5	7.04	Peak	55.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04	☒
Amplifier (30MHz-1GHz)	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2024.08.03	☒
Anechoic Chamber (10m)	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

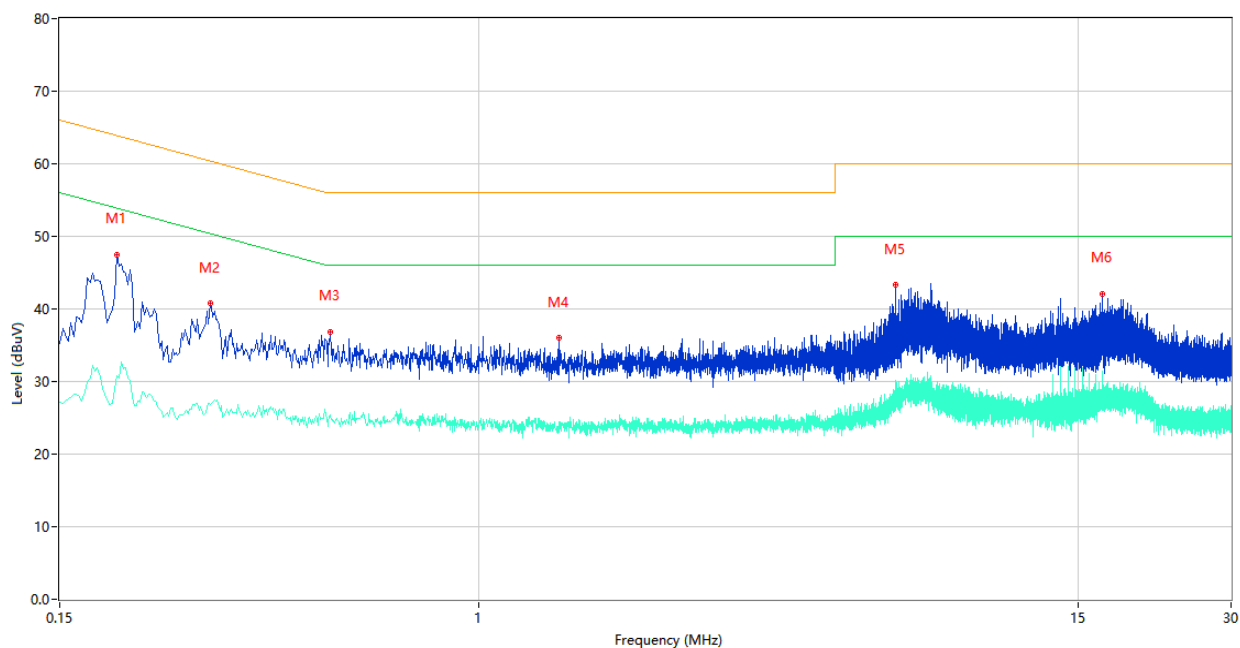
A.2 Conducted Emission

Sample No.	S01	Temperature	24.9℃
Humidity	63%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.16

Test Data and Plot

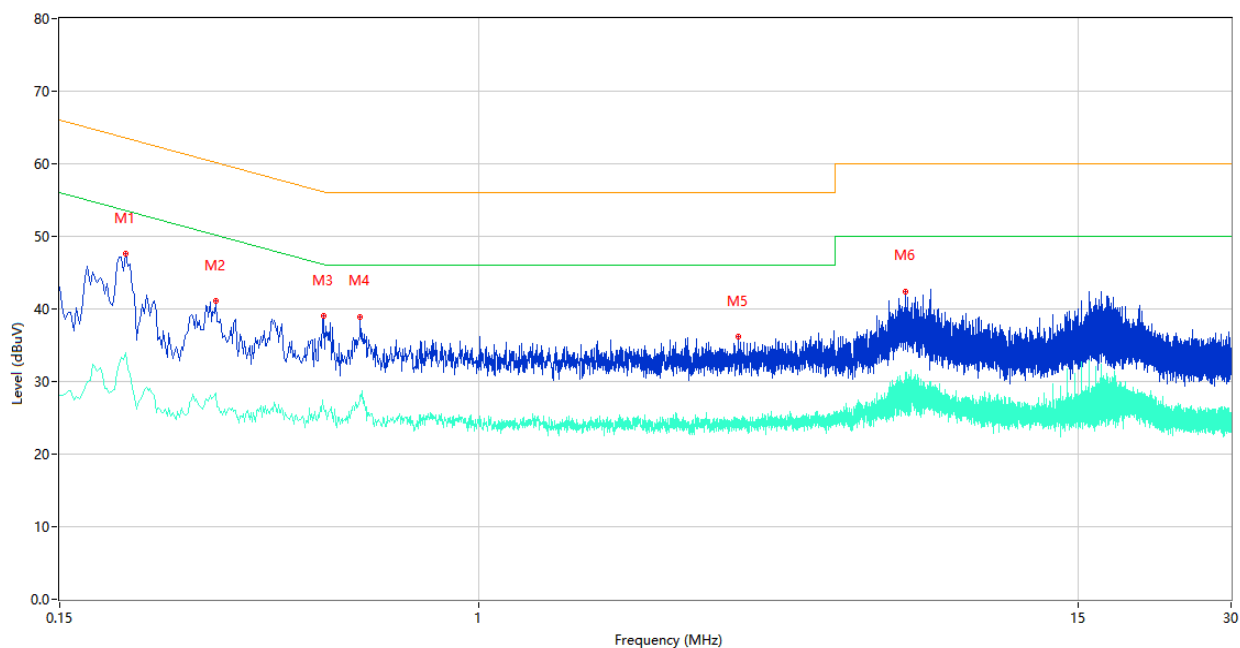
Mode 1

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.194	47.54	9.77	63.86	16.32	Peak	L	Pass
1**	0.194	30.74	9.77	53.86	23.12	AV	L	Pass
2	0.296	40.74	9.76	60.35	19.61	Peak	L	Pass
2**	0.296	26.84	9.76	50.35	23.51	AV	L	Pass
3	0.510	36.87	9.99	56.00	19.13	Peak	L	Pass
3**	0.510	25.44	9.99	46.00	20.56	AV	L	Pass
4	1.432	35.99	9.95	56.00	20.01	Peak	L	Pass
4**	1.432	23.79	9.95	46.00	22.21	AV	L	Pass
5	6.586	43.30	10.45	60.00	16.70	Peak	L	Pass
5**	6.586	29.12	10.45	50.00	20.88	AV	L	Pass
6	16.738	42.08	10.78	60.00	17.92	Peak	L	Pass
6**	16.738	31.49	10.78	50.00	18.51	AV	L	Pass

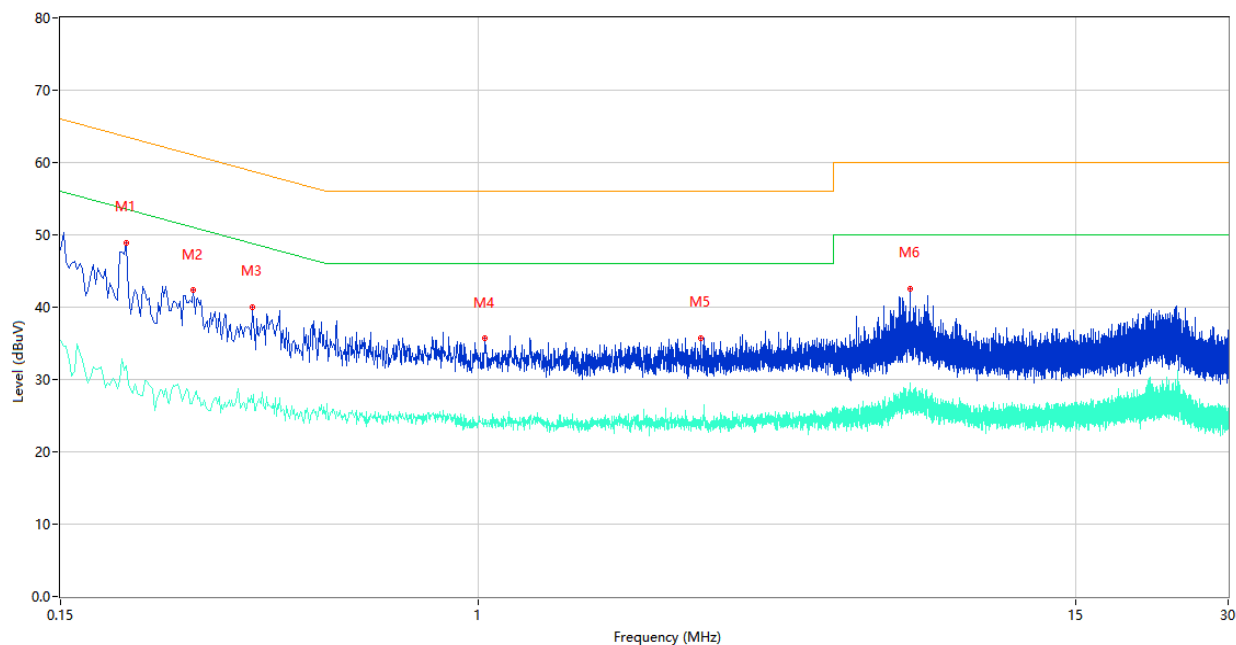
PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.202	47.55	9.77	63.53	15.98	Peak	N	Pass
1**	0.202	33.94	9.77	53.53	19.59	AV	N	Pass
2	0.304	41.07	9.84	60.13	19.06	Peak	N	Pass
2**	0.304	28.34	9.84	50.13	21.79	AV	N	Pass
3	0.496	39.02	9.98	56.07	17.05	Peak	N	Pass
3**	0.496	26.42	9.98	46.07	19.65	AV	N	Pass
4	0.584	38.97	10.12	56.00	17.03	Peak	N	Pass
4**	0.584	28.12	10.12	46.00	17.88	AV	N	Pass
5	3.228	36.15	10.13	56.00	19.85	Peak	N	Pass
5**	3.228	24.80	10.13	46.00	21.20	AV	N	Pass
6	6.876	42.31	10.43	60.00	17.69	Peak	N	Pass
6**	6.876	31.22	10.43	50.00	18.78	AV	N	Pass

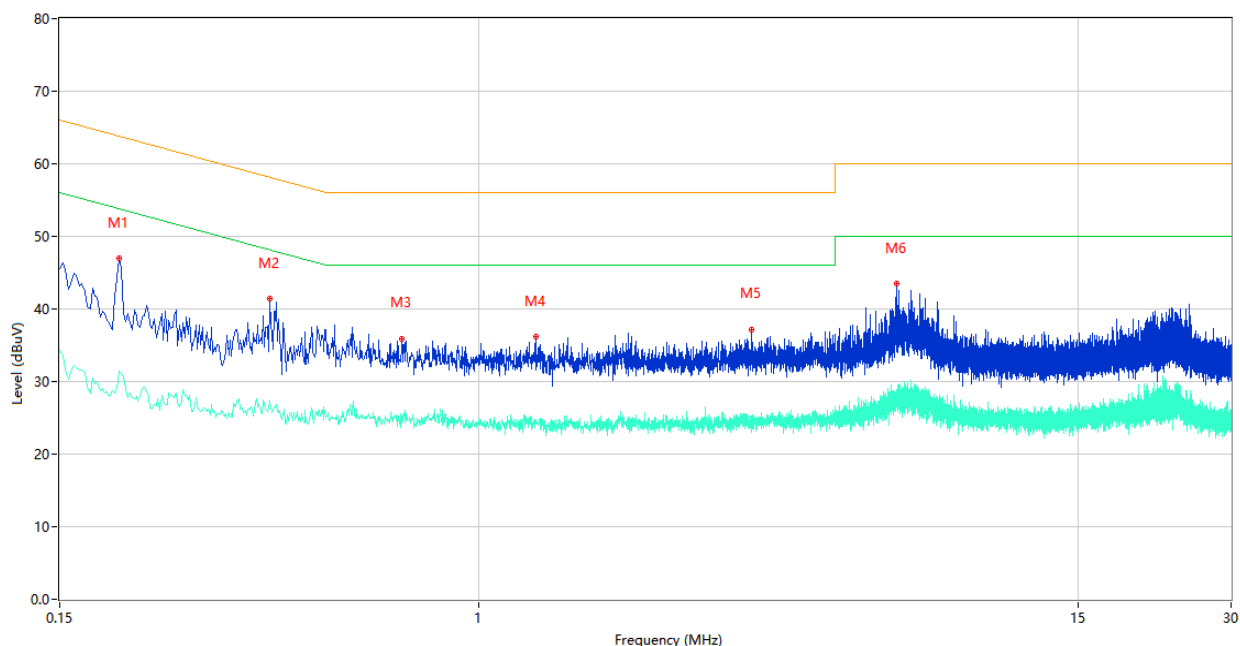
Mode 2

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.202	48.91	9.77	63.53	14.62	Peak	L	Pass
1**	0.202	31.87	9.77	53.53	21.66	AV	L	Pass
2	0.274	42.35	9.76	61.00	18.65	Peak	L	Pass
2**	0.274	27.34	9.76	51.00	23.66	AV	L	Pass
3	0.358	40.07	10.73	58.77	18.70	Peak	L	Pass
3**	0.358	26.90	10.73	48.77	21.87	AV	L	Pass
4	1.028	35.67	10.09	56.00	20.33	Peak	L	Pass
4**	1.028	23.97	10.09	46.00	22.03	AV	L	Pass
5	2.736	35.73	10.14	56.00	20.27	Peak	L	Pass
5**	2.736	24.44	10.14	46.00	21.56	AV	L	Pass
6	7.072	42.60	10.40	60.00	17.40	Peak	L	Pass
6**	7.072	25.50	10.40	50.00	24.50	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.196	46.91	9.77	63.78	16.87	Peak	N	Pass
1**	0.196	31.47	9.77	53.78	22.31	AV	N	Pass
2	0.388	41.39	10.60	58.11	16.72	Peak	N	Pass
2**	0.388	27.25	10.60	48.11	20.86	AV	N	Pass
3	0.706	35.94	10.59	56.00	20.06	Peak	N	Pass
3**	0.706	25.09	10.59	46.00	20.91	AV	N	Pass
4	1.294	36.16	10.51	56.00	19.84	Peak	N	Pass
4**	1.294	24.79	10.51	46.00	21.21	AV	N	Pass
5	3.434	37.19	10.29	56.00	18.81	Peak	N	Pass
5**	3.434	25.15	10.29	46.00	20.85	AV	N	Pass
6	6.596	43.46	10.48	60.00	16.54	Peak	N	Pass
6**	6.596	28.79	10.48	50.00	21.21	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04	☒
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

A.3 20 dB Bandwidth

Note: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

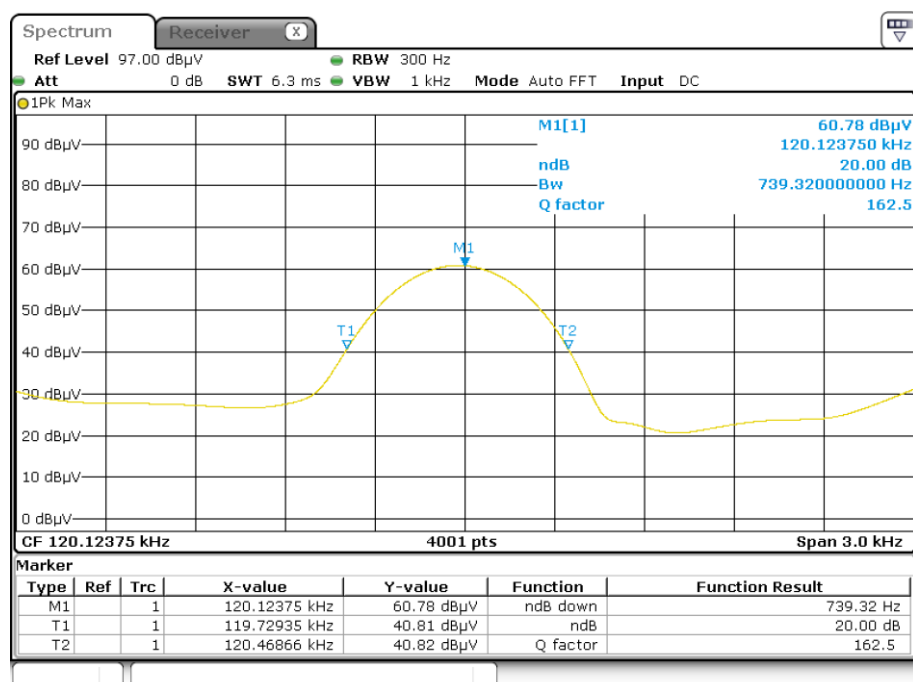
Sample No.	S01	Temperature	23.9℃
Humidity	56%RH	Pressure	101kPa
Test Engineer	Xi Zifeng	Test Date	2024.07.16

Emission Bandwidth

Test Data

Frequency (kHz)	Emission Bandwidth (20dB down) (kHz)
120.12375	0.73932

Test Plots

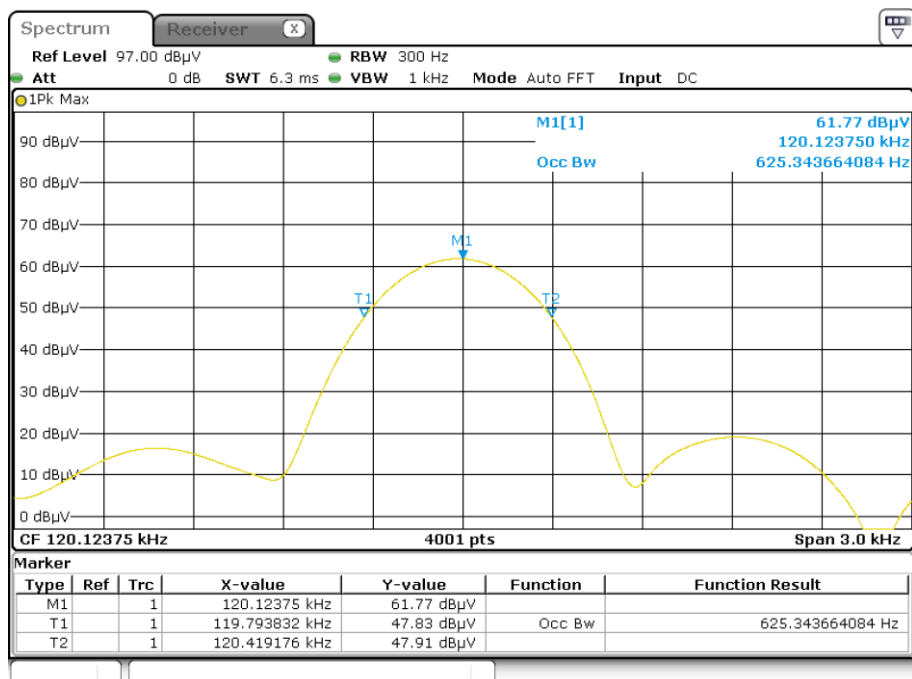


99% Occupied Bandwidth

Test Data

Frequency (kHz)	Emission Bandwidth (99%) (kHz)
120.12375	0.62534

Test Plots



Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHW ARZ	ESRP	101036	2023.09.05	2024.09.04	☒
Test Antenna- Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22	☒
Anechoic Chamber (10m)	EMC TECHNOLOGY LTD	20.1m*11.6 m*7.35m	130	2021.08.15	2024.08.14	☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2470307-AE-2.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2470307-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2470307-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--