

# **TEST REPORT**

**Applicant:** Jiangmen Dascom Computer Peripherals Co., Ltd.

Address: No 399, Jin Xing Road, Jiang Hai District, Jiangmen

City Guang Dong Province, China

**Equipment Type:** Card Printer

**Model Name:** DC-340 (refer to section 2.3)

Brand Name:

**FCC ID**: Z7ODC340

Test Standard:

47 CFR Part 15 Subpart C

ANSI C63.10-2013

Sample Arrival Date: Sep. 24, 2024

**Test Date:** Sep. 25, 2024 - Oct. 17, 2024

Date of Issue: Dec. 20, 2024

**ISSUED BY:** 

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Page No. 1 / 28

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# **Revision History**

Version

Issue Date

Revisions

Rev. 01

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Initial Issue

# **TABLE OF CONTENTS**

1	GENER	AL INFORMATION	4
	1.1	Test Laboratory	4
	1.2	Test Location	4
2	PRODU	JCT INFORMATION	5
2	2.1	Applicant Information	5
2	2.2	Manufacturer Information	5
2	2.3	General Description for Equipment under Test (EUT)	5
2	2.4	Technical Information	5
3	SUMMA	ARY OF TEST RESULTS	6
(	3.1	Test Standards	6
(	3.2	Verdict	6
(	3.3	Test Uncertainty	6
4	GENER	AL TEST CONFIGURATIONS	7
4	1.1	Test Environments	7
4	1.2	Test Setups	7
5	TEST IT	TEMS	9
į	5.1	Antenna Requirements	9
į	5.2	Emission Bandwidth	10
į	5.3	Field Strength of Fundamental Emissions and Radiated Emissions	12
į	5.4	Frequency Tolerance	14
ţ	5.5	Conducted Emission	15
A٨	NEX A	TEST RESULT	16
,	A.1	Emission Bandwidth	16
,	A.2	Field Strength of Fundamental Emissions	18



A.3	Radiated Emissions	20
A.4	Frequency Stability	24
A.5	Conducted Emissions	25
ANNEX B	TEST SETUP PHOTOS	27
ANNEX C	EUT EXTERNAL PHOTOS	27
ANNEX D	FUT INTERNAL PHOTOS	27



# 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,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

# 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Location	□ 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
A core ditation Cortificate	The laboratory is a testing organization accredited by FCC as a
Accreditation Certificate	accredited testing laboratory. The designation number is CN1196.



# **2 PRODUCT INFORMATION**

# 2.1 Applicant Information

Applicant Jiangmen Dascom Computer Peripherals Co., Ltd.	
Address	No 399, Jin Xing Road, Jiang Hai District, Jiangmen City Guang Dong
Addiess	Province, China

# 2.2 Manufacturer Information

Manufacturer	Jiangmen Dascom Computer Peripherals Co., Ltd.
Addross	No 399, Jin Xing Road, Jiang Hai District, Jiangmen City Guang Dong
Address	Province, China

# 2.3 General Description for Equipment under Test (EUT)

EUT Name	Card Printer
Model Name Under Test	DC-340
Series Model Name	DC-342, DC-346
Description of Model	They are technical identical except the different model name only.
name differentiation	(this information provided by the applicant)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

## 2.4 Technical Information

Network and Wireless	PEID
connectivity	KLID

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

Modulation Type	ASK
Frequency Range	13.56 MHz
Product Type	
Receiver Categorization	3
Number of channel	1
Tested Channel	1
Antenna Type	Coil Antenna



# **SUMMARY OF TEST RESULTS**

## 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional Radiators
2	2 ANSI C63.10-2013	American National Standard for Testing Unlicensed
2	ANSI C03. 10-2013	Wireless Devices

## 3.2 Verdict

No.	Description	FCC Part No.	Verdict
1	Antenna Requirement	15.203	Pass Note
2	Emissions Bandwidth	15.215	Pass
3	Field Strength of Fundamental Emissions	15.225(a)	Pass
4	Radiated Emissions	15.225(d) / 15.209	Pass
5	Frequency Stability	15.225(e)	Pass
6	Conducted Emission	15.207	Pass

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

# 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)-3m	4.4 dB



# 4 GENERAL TEST CONFIGURATIONS

## **4.1 Test Environments**

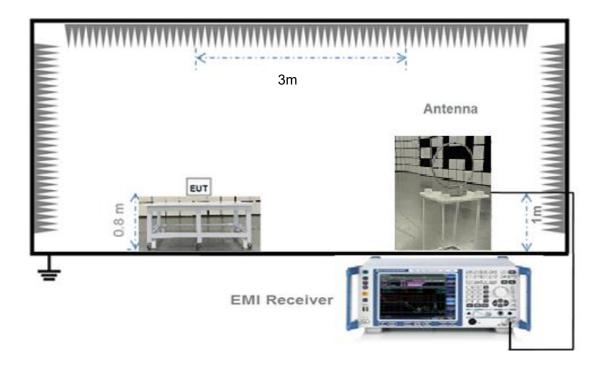
During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%			
Atmospheric Pressure	100 kPa to 102 kPa			
Temperature	NT (Normal Temperature) +22°C to +25°C			
Working Voltage of the EUT	NV (Normal Voltage)	230 V		

# 4.2 Test Setups

## Test Setup 1

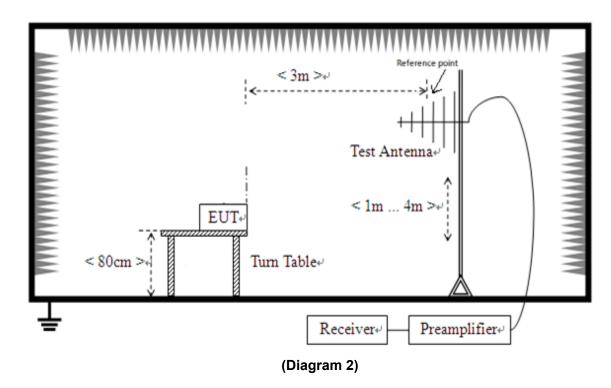
Radiated Test (Below 30 MHz)



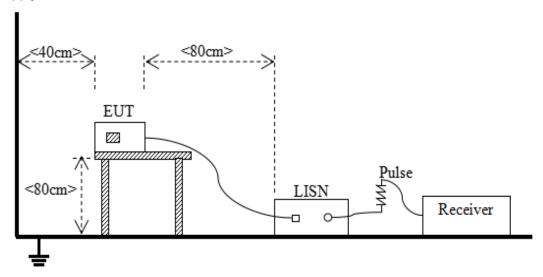
(Diagram 1)



## Test Setup 2 Radiated Test (30 MHz-1 GHz)



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	An embedded-in antenna design is used.
product.	

Reference Documents	Item
Photo	Please refer EUT internal photos.



## 5.2 Emission Bandwidth

#### 5.2.1 Definition

15.215(c);

Intentional radiators operating under the alternative provisions to the general emission limits must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

#### 5.2.2 Test Setup

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

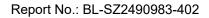
## 5.2.3 Test Procedure

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





Page No. 11 / 28

VBW ≥ 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 ≥ 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.1



# 5.3 Field Strength of Fundamental Emissions and Radiated Emissions

#### 5.3.1 Limit

FCC §15.225(a), (b), (c)

According to FCC section 15.225, for <30 MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 kHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated spurious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit( $dB\mu V/m$ ) =  $20log(X)+40log(30/3)=20log(15848)+40log(30/3)=124dB\mu V$ 

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency range	Field Strength@30m		Field Strength@10m	Field Strength@3m
(MHz)	μV/m	dBμV/m	dBμV/m	dBµV/m
Below 13.110	30	29.5	48.58	69.5
13.110 ~ 13.410	106	40.5	59.58	80.5
13.410 ~ 13.553	334	50.5	69.58	90.5
13.553 ~13.567	15848	84	103.08	124
13.567 ~ 13.710	334	50.5	69.58	90.5
13.710 ~14.010	106	40.5	59.58	80.5
Above 14.010	30	29.5	48.58	69.5

#### NOTE:

- 1. Field Strength ( $dB\mu V/m$ ) = 20\*log[Field Strength ( $\mu V/m$ )].
- 2. In the emission tables above, the tighter limit applies at the band edges.

FCC §15.225(d)

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement distance (meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 - 1.705	24000/F(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:

- For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2. For above 1000 MHz, limit field strength of harmonics: 54dBμV/m@3m (AV) and 74dBμV/m@3m (PK).

## 5.3.2 Test Setup

See section 4.2(Diagram 1 and Diagram 2) for test setup for the antenna port. The photo of test setup please refer to ANNEX B.

#### 5.3.3 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  $f \ge 1$  GHz, 100 kHz for 30 MHz < f < 1 GHz, 10 kHz for 150 kHz < f < 30 MHz,

300 Hz for f < 150 kHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

### 5.3.4 Test Result and Test Equipment List

Please refer to ANNEX A.2 and A.3

#### NOTE:

1. Results  $(dB\mu V/m)$  = Reading  $(dB\mu V)$  + 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

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# 5.4 Frequency Tolerance

#### 5.4.1 Limit

FCC §15.225(e)

The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of −20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

## 5.4.2 Test Setup

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

#### 5.4.3 Test Procedure

- 1. The test is performed in a Temperature Chamber.
- 2. The EUT is configured as MS + DC Power Supply.
- 5.4.4 Test Result and Test Equipment List

Please refer to ANNEX A.4.



## 5.5 Conducted Emission

#### 5.5.1 Limit

#### FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a  $50\mu\text{H}/50\Omega$  line impedance stabilization network (LISN).

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

#### 5.5.2 Test Setup

See section 4.2(Diagram 3) for test setup for the antenna port. The photo of test setup please refer to ANNEX B.

#### 5.5.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels 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. Refer to recorded points and plots below.

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.

#### 5.5.4 Test Result and Test Equipment List

Please refer to ANNEX A.5.

#### NOTE:

1. Results  $(dB\mu V)$  = Reading  $(dB\mu V)$  + Factor (dB)

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

- 2. Factor = Insertion loss + Cable loss
- 3. Margin = Limit Results



# ANNEX A TEST RESULT

#### A.1 Emission 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.

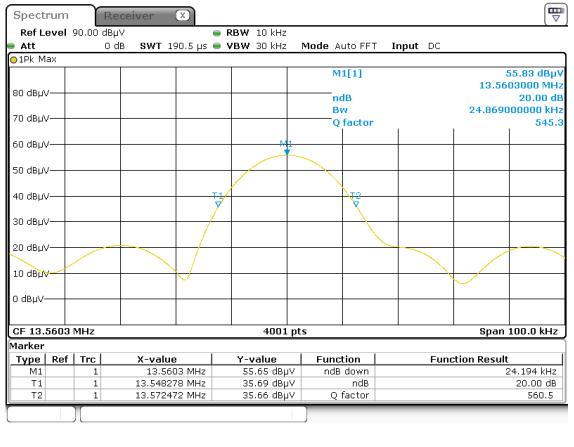
Sample No.	S01	Temperature	22.7℃
Humidity	58%RH	Pressure	101kPa
Test Engineer	Zhou Haonan	Test Date	2024.10.15

#### Test Data

Frequency	Emission Bandwidth (20dB down)	Occupied Bandwidth (99%)		
(MHz)	(kHz)	(kHz)		
13.56	24.194	21.0464		

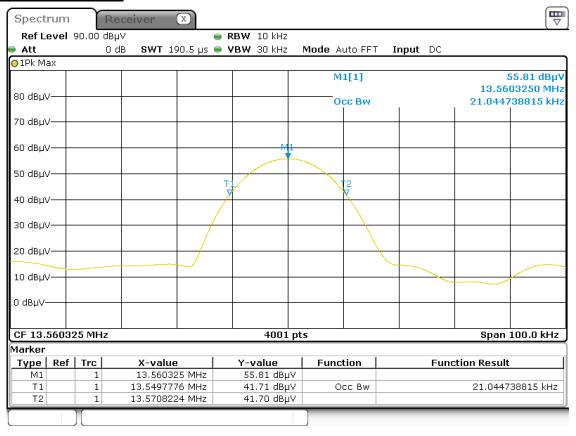
#### **Test Plots**

### **Emission Bandwidth**





#### 99% Occupied Bandwidth



	Equipment Information							
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use		
EMI Receiver	ROHDE&SCH WARZ	ESRP	101036	2024.08.01	2025.07.31	$\boxtimes$		
Test Antenna- Loop	SCHWARZBE CK	FMZB 1519	1519-037	2024.01.23	2027.01.22	$\boxtimes$		
Anechoic Chamber (10M)	EMC TECHNOLOGY LTD	20.1m*11.6 m*7.35m	130	2021.08.15	2024.08.14			



# A.2 Field Strength of Fundamental Emissions

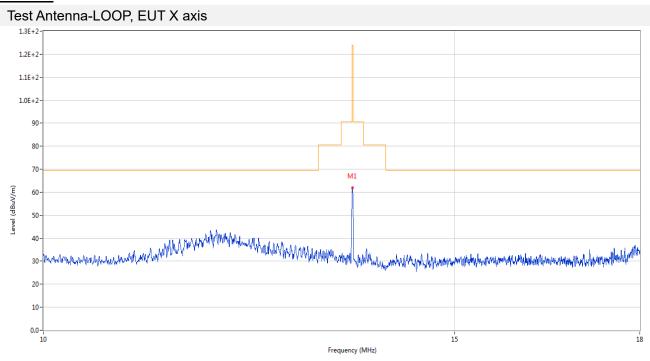
Note: Field Strength of Fundamental Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

Sample No.	S01	Temperature	23.1℃
Humidity	55%RH	Pressure	101kPa
Test Engineer	Zhou Haonan	Test Date	2024.10.17

## Test Data

	Field Strength of Fundamental Emissions Value								
Frequen cy (MHz)	Detector	Field Strength @3m (dBµV/m)	Conversi on Factor	Field Str ength (dBµV/m)	Limit @10m (dBµV/m)	EUT	Margin (dB)	Verdict	
13.560	PEAK	62.03	-23.5	38.53	103.08	X axis	64.55	Pass	

#### Test Plot



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	13.560	62.03	20.86	124.0	61.97	Peak	256.00	100	Horizontal	Pass



Equipment Information									
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use			
EMI Receiver	ROHDE&SCH	ESRP	101036	2024.08.01	2025.07.31	$\boxtimes$			
	WARZ	LONP	101030	2024.06.01	2025.07.51				
Test Antenna-	SCHWARZBE	FMZB 1519	1519-037	2024.01.23	2027.01.22	$\boxtimes$			
Loop	CK	FINIZE 1319	1519-057	2024.01.23	2027.01.22				
Anechoic	EMC Electronic	20.10*11.60*	130	2024.07.13	2027.07.12	$\boxtimes$			
Chamber (10m)	Co., Ltd	7.35m	130	2024.07.13	2021.01.12				



## A.3 Radiated Emissions

Note 1: This frequency which near 13.560 MHz with circle should be ignored because they are NFC carrier frequency.

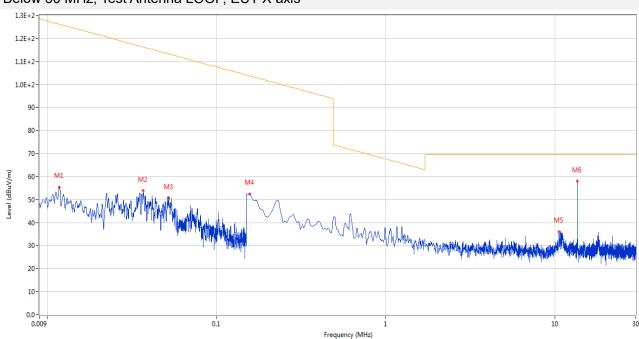
Note 2: All Radiated Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

#### $(9 \text{ kHz} \sim 30 \text{ MHz})(D=3\text{m})$

Sample No.	S01	Temperature	24.6℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	Zhou Haonan	Test Date	2024.10.17

#### The Data and Plots

#### Below 30 MHz, Test Antenna LOOP, EUT X axis



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	0.012	55.33	20.00	126.2	70.87	Peak	0.00	100	Horizontal	Pass
2	0.037	53.76	20.22	116.3	62.54	Peak	358.00	100	Horizontal	Pass
3	0.052	50.66	20.22	113.2	62.54	Peak	263.00	100	Horizontal	Pass
4	0.157	52.43	20.10	103.7	51.27	Peak	0.00	100	Horizontal	Pass
5	10.575	35.90	20.82	69.5	33.60	Peak	198.00	100	Horizontal	Pass
6	13.560	57.99	20.86	69.5	11.51	Peak	105.00	100	Horizontal	N/A



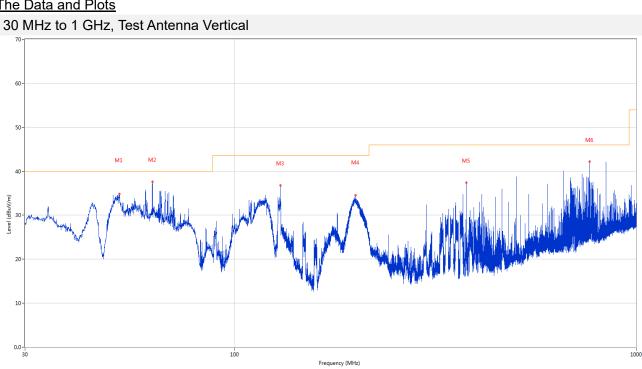
Equipment Information									
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use			
	Frequency Below 1 GHz								
EMI Receiver	ROHDE&SC HWARZ	ESRP	101036	2024.08.01	2025.07.31	$\boxtimes$			
Test Antenna- Loop	SCHWARZB ECK	FMZB 1519	1519-037	2024.01.23	2027.01.22	$\boxtimes$			
Anechoic Chamber (10m)	EMC Electronic Co., Ltd	20.10*11.60*7 .35m	130	2024.07.13	2027.07.12	$\boxtimes$			



## (30 MHz ~ 10th Harmonic)

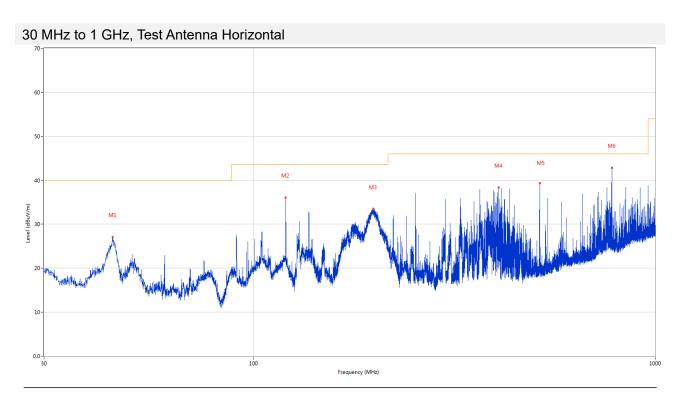
Sample No.	S01	Temperature	24.8℃
Humidity	56%RH	Pressure	101kPa
Test Engineer	Li Jianping	Test Date	2024.11.27

## The Data and Plots



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	51.583	34.80	-24.76	40.0	5.20	Peak	74.60	100	Vertical	Pass
2	62.301	36.60	-26.54	40.0	3.40	Peak	42.30	100	Vertical	Pass
3	129.910	36.80	-29.23	43.5	6.70	Peak	86.90	100	Vertical	Pass
4	199.992	34.51	-25.65	43.5	8.99	Peak	334.70	100	Vertical	Pass
5	377.260	37.37	-21.33	46.0	8.63	Peak	0.00	200	Vertical	Pass
6	766.375	42.15	-11.60	46.0	3.85	Peak	86.90	100	Vertical	Pass





No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	44.502	27.06	-25.40	40.0	12.94	Peak	151.20	200	Horizontal	Pass
2	120.064	36.12	-27.86	43.5	7.38	Peak	76.10	200	Horizontal	Pass
3	198.441	33.47	-25.59	43.5	10.03	Peak	273.40	100	Horizontal	Pass
4	407.766	38.35	-20.04	46.0	7.65	Peak	149.30	200	Horizontal	Pass
5	515.922	39.34	-17.68	46.0	6.66	Peak	215.90	200	Horizontal	Pass
6	780.004	42.78	-12.04	46.0	3.22	Peak	280.80	100	Horizontal	Pass

	Equipment Information								
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use			
		Frequency B	elow 1 GHz						
EMI Receiver	Keysight	N9038A	MY53220118	2024.08.01	2025.07.31	$\boxtimes$			
Amplifier (30MHz-1GHz)	COM-MV	ZT30-1000M	B2017119082	2023.12.05	2024.12.04	$\boxtimes$			
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9163	9163-624	2024.07.06	2027.07.05	$\boxtimes$			
Anechoic Chamber (#4)	ChangNing	9m*6m*6m	101	2023.03.04	2026.03.03	$\boxtimes$			
Description	Supplier	Name	Version	İ		Use			
Test Software	BALUN	BL410-E	V22.930	1		$\boxtimes$			



# A.4 Frequency Stability

Note: The operating temperature range of the EUT is 0°C to 40°C.

Sample No.	S01	Temperature	23.1℃
Humidity	55%RH	Pressure	101kPa
Test Engineer	Zhou Haonan	Test Date	2024.10.17

OPERATING FREQUENCY:	13560000 Hz
REFERENCE VOLTAGE:	120 V
DEVIATION LIMIT:	±0.01%

## Test Data

	Test Co	nditions	Fraguanay		
VOLTAGE (%)	Power (VAC)	Temperature (°C)	Frequency (Hz)	Deviation (%)	Verdict
100		-20	13559950	-0.000369	Pass
100		-10	13560325	0.002397	Pass
100		0	13560275	0.002028	Pass
100		+10	13560100	0.000737	Pass
100	120	+20	13560325	0.002397	Pass
100		+25	13560175	0.001291	Pass
100		+30	13560075	0.000553	Pass
100		+40	13560100	0.000737	Pass
100		+50	13560050	0.000369	Pass
85	102	+20	13560325	0.002397	Pass
115	138	+20	13560200	0.001475	Pass

		Equipment I	nformation			
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SC HWARZ	ESRP	101036	2024.08.01	2025.07.31	
Test Antenna- Loop	SCHWARZB ECK	FMZB 1519	1519-037	2024.01.23	2027.01.22	$\boxtimes$
Temperature Chamber	ANGELANT ONI	NTH64-40A	1310	2023.12.05	2024.12.05	$\boxtimes$
Anechoic Chamber (10m)	EMC Electronic Co., Ltd	20.10*11.60*7 .35m	130	2024.07.13	2027.07.12	$\boxtimes$
Description	Supplier	Name	Version	1		Use
Test Software	/	/	1	1		

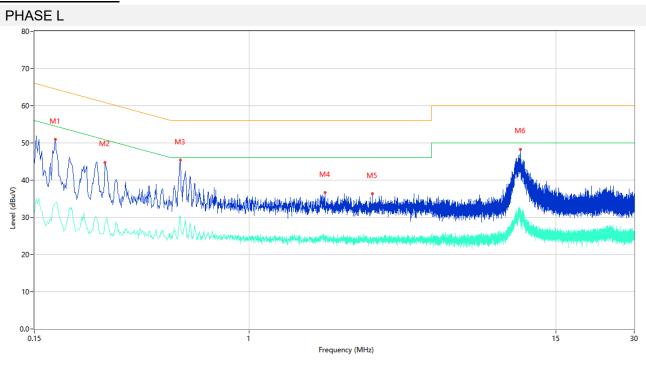


## A.5 Conducted Emissions

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (240 VAC, 50 Hz) shown here.

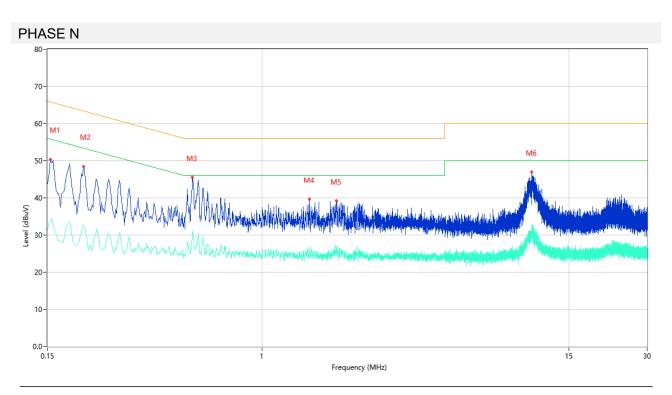
Sample No.	S01	Temperature	23.6℃
Humidity	60%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.09.25

## Test Data and Plots



No.	Frequency	Results	Factor	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.180	50.93	9.78	64.49	13.56	Peak	L	Pass
1**	0.180	33.91	9.78	54.49	20.58	AV	L	Pass
2	0.280	44.83	9.76	60.82	15.99	Peak	L	Pass
2**	0.280	28.55	9.76	50.82	22.27	AV	L	Pass
3	0.544	45.39	10.02	56.00	10.61	Peak	L	Pass
3**	0.544	30.51	10.02	46.00	15.49	AV	L	Pass
4	1.950	36.63	10.17	56.00	19.37	Peak	L	Pass
4**	1.950	25.13	10.17	46.00	20.87	AV	L	Pass
5	2.968	36.32	10.23	56.00	19.68	Peak	L	Pass
5**	2.968	23.89	10.23	46.00	22.11	AV	L	Pass
6	10.974	48.28	10.69	60.00	11.72	Peak	L	Pass
6**	10.974	30.63	10.69	50.00	19.37	AV	L	Pass





No.	Frequency	Results	Factor	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.154	50.29	9.78	65.78	15.49	Peak	N	Pass
1**	0.154	33.71	9.78	55.78	22.07	AV	N	Pass
2	0.206	48.44	9.77	63.37	14.93	Peak	N	Pass
2**	0.206	32.66	9.77	53.37	20.71	AV	N	Pass
3	0.540	45.61	10.02	56.00	10.39	Peak	N	Pass
3**	0.540	30.68	10.02	46.00	15.32	AV	N	Pass
4	1.514	39.70	10.23	56.00	16.30	Peak	N	Pass
4**	1.514	26.38	10.23	46.00	19.62	AV	N	Pass
5	1.926	39.21	10.42	56.00	16.79	Peak	N	Pass
5**	1.926	26.89	10.42	46.00	19.11	AV	N	Pass
6	10.844	47.05	10.55	60.00	12.95	Peak	N	Pass
6**	10.844	30.33	10.55	50.00	19.67	AV	N	Pass

Equipment Information									
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use			
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31				
LISN	SCHWARZB ECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	$\boxtimes$			
Shielded Room	YiHeng Shielded Room Electronic Co., Ltd		112	2022.02.19	2025.02.18	$\boxtimes$			
Description	Supplier	Name	Version	1		Use			
Test Software BALUN		BL410-E	V22.930	1		$\boxtimes$			



Page No. 27 / 28

# ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2490983-AE-2.PDF".

# ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2490983-AW.PDF".

# ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2490983-AI.PDF".

Web: www.titcgroup.com Template No.: TRP-FC



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