

# **TEST REPORT**

Applicant:	MAXPAY PAZARLAMA IC VE DIS TICARET LIMITED SIRKETI		
Address:	Fulya Mah. Büyükdere Cad. No: 76, Unit NO 178, 34394 Mecidiyeköy. Şişli - İSTANBUL,Türkiye		
Equipment Type:	POS Terminal		
Model Name:	D600		
Brand Name:	MP		
FCC ID:	2BC4X-D600		
Test Standard:	47 CFR Part 15 Subpart C ANSI C63.10-2013		
Sample Receipt Date:	Jan. 17, 2025		
Test Date:	Jan. 20, 2025 - Jan. 22, 2025		
Date of Issue:	Mar. 18, 2025		

#### **ISSUED BY:**

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

Tested by: Chai Yong

Checked by: Huang Chengkun

Chai Yong

Huang Chongkun

Approved by: Chen Zidong (Technical Director)



### **Revision History**

Version Rev. 01 Issue Date Mar. 18, 2025 Revisions Initial Issue

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# **1 GENERAL INFORMATION**

# 1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center	
Address	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town,	
	Pudong New District, Shanghai	

# 1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center	
Leastion	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town,	
Location	Pudong New District, Shanghai	
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a	
	accredited testing laboratory. The designation number is CN1352.	



# **2 PRODUCT INFORMATION**

### 2.1 Applicant Information

Applicant	MAXPAY PAZARLAMA IC VE DIS TICARET LIMITED SIRKETI	
Address	Fulya Mah. Büyükdere Cad. No: 76, Unit NO 178, 34394 Mecidiyeköy.	
	Şişli - İSTANBUL,Türkiye	

### 2.2 Manufacturer Information

Manufacturer	MAXPAY PAZARLAMA IC VE DIS TICARET LIMITED SIRKETI	
Address	Fulya Mah. Büyükdere Cad. No: 76, Unit NO 178, 34394 Mecidiyeköy.	
	Şişli - İSTANBUL,Türkiye	

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	POS Terminal	
Model Name Under Test	D600	
Series Model Name	N/A	
Description of Model	N/A	
name differentiation	N/A	
Sample No.	S01	
Hardware Version	D60005141011000	
Software Version	0103_1410_1415_101_89162ff4e7_UD_hmp_p1512_tosan_a1	
Dimensions (Approx.)	203.96mm (L) × 82.89mm (W) × 71.34mm (H)	
Weight (Approx.)	N/A	



# 2.4 Technical Information

	2G Network GSM/GPRS/EDGE 850/1900 MHz
	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5
Network and Wireless	4G Network FDD LTE Band 2/4/5/7/12/17/19/25/26/66
connectivity	TDD LTE Band 38/41
	Bluetooth, 2.4G WIFI, 5G WIFI
	GPS, GLONASS, NFC

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

Modulation Type	ASK
Product Type	Portable
	Fix Location
Frequency Range	13.56 MHz
Receiver Categorization	3
Number of Channel	1
Tested Channel	1
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 of Procedures for	
		Compliance Testing of Unlicensed Wireless Devices	

### 3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203		Pass <sup>Note</sup>
2	Emissions Bandwidth	15.215	ANNEX A.1	Pass
3	Field Strength of Fundamental Emissions	15.225(a)	ANNEX A.2	Pass
4	Radiated Emissions	15.225(d) 15.209	ANNEX A.3	Pass
5	Frequency Stability	15.225(e)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
Note: The EUT has a permanently and irreplaceable attached antenna, which complies with the				
requirement FCC 15.203.				

### 3.3 Decision Rule

- No Need
- $\boxtimes$  Use General conformity decision rule (Consider uncertainty or not  $\boxtimes$  No  $\square$  Yes)
- □ Use Special Conformity Decision Rule (Consider uncertainty or not □ No □ Yes)

### 3.4 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 (150 kHz-30 MHz)	2.6 dB
Radiated emissions (9 kHz-30 MHz)	4.3 dB
Radiated emissions (30 MHz-1 GHz)	4.4 dB



# **4** GENERAL TEST CONFIGURATIONS

### **4.1 Test Environments**

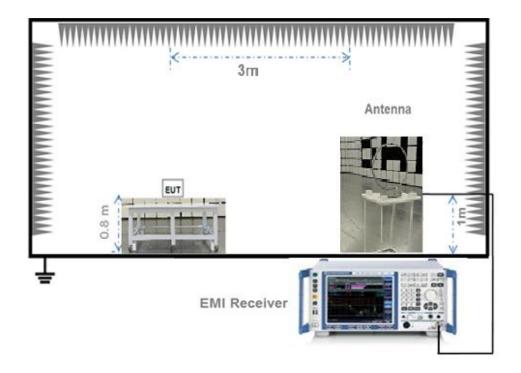
During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21℃ to +26℃
Working Voltage of the EUT	NV (Normal Voltage)	9.0 V



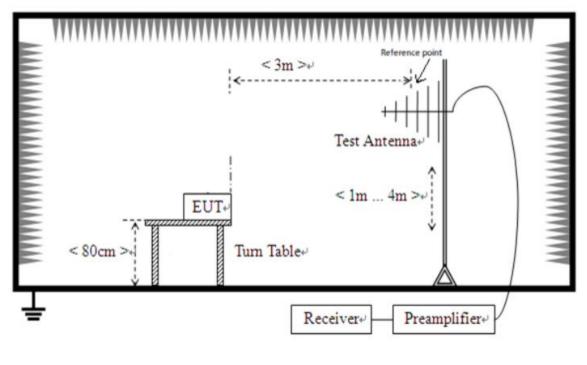
### 4.2 Description of Test Setup

4.2.1 For Radiated Test (Below 30 MHz)



(Diagram 1)

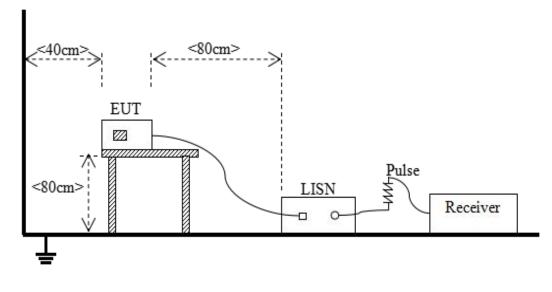
4.2.2 For Radiated Test (30 MHz-1 GHz)



(Diagram 2)



#### 4.2.3 For 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 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 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 4.1.1 for test setup description 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



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

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 Stre	ngth@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:

- 1. 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.
- 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 4.1.1 for test setup description 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 f < 1 GHz VBW  $\ge$  RBW Sweep = auto Detector function = peak Trace = max hold

5.3.4 Test Result

Please refer to ANNEX A.2 and A.3

NOTE:

1. Results  $(dB\mu V/m)$  = Reading  $(dB\mu V/m)$  + 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. Over limit = Results – Limit.



# 5.4 Frequency Tolerance

5.4.1 Limit

FCC §15.225(e)

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  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 4.1.1 for test setup description 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

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  $50\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

	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 4.1.1 for test setup description 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

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. Over limit = Results – Limit.



# ANNEX A TEST RESULT

# A.1 Emission Bandwidth

Sample No.	S01	Temperature	21.9°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.20

Test Data

Frequency	Emission Bandwidth(20dB down)	Occupied Bandwidth(99%)
(MHz)	(kHz)	(kHz)
13.56	48.800	59.943



#### Test plots

**Emission Bandwidth** 

Keysight Spectrum Analyzer - Occupied BW RL RE 50 Ω AC Ref Value 24.00 dBm	Trig: I	INT REF SOURCE OFF	ALIGN OFF	04:47:37 PM Jan 20, 20 Radio Std: None Radio Device: BTS	Amptd/Y Scale
Ref Offset 19.21 di 10 dB/div Ref 24.00 dBm	an ounieou		Mkr	1 13.5599 MH -8.8954 dB	
.0g 14.0 4.00		1			Attenuation [10 dB]
					Scale/D 10.0 d
46.0					
Center 13.56000 MHz #Res BW 10 kHz	#	VBW 30 kHz		Span 100.0 ki Sweep 1 n	
Occupied Bandwidth	).943 kHz	Total Power	-8.14	l dBm	Presel Adju
Transmit Freq Error x dB Bandwidth	1.719 kHz 48.80 kHz	% of OBW Po x dB		9.00 % .00 dB	0 -
					Moi 1 of
ISG			STATU	S	

#### 99% Occupied Bandwidth





	Equipment Information					
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2024.02.22	2025.02.21	$\boxtimes$
Test Antenna-	SCHWARZBECK	FMZB	BH-EMC-L067	2024.03.11	2027.03.10	$\boxtimes$
Loop	SCHWARZDECK	1519B		2024.03.11	2027.03.10	
Anechoic	Villong	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	$\boxtimes$
Chamber	YiHeng			2024.04.10	2027.04.17	



# 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.

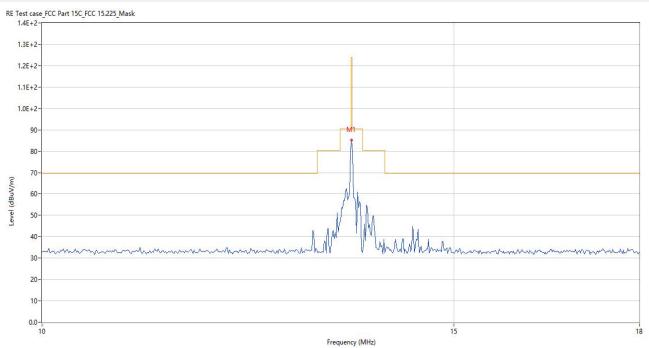
Sample No.	S01	Temperature	21.9°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.20

#### Test Data

Field Strength of Fundamental Emissions Value						
Frequency (MHz)DetectorField Strength (dBµV/m)Limit @3m (dBµV/m)EUTMargin (dB)						
13.560 PEAK 85.28 124.0 X axis 38.72						

#### Test Plot

#### Test Antenna-LOOP, EUT X axis





	Equipment Information							
Description	Manufacturer	Model	Equipment No	Cal. Date	Cal. Due	Use		
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2024.02.22	2025.02.21	$\square$		
Test Antenna-	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	$\boxtimes$		
Loop	CONTRACEDEDIC		BIT-ENIO-E007	2024.00.11	2027.00.10			
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	$\boxtimes$		
Description	Manufacturer	Name	Version		/	Use		
Test Software	BALUN	BL410-E	V21.919		/	$\boxtimes$		



# A.3 Radiated Emissions

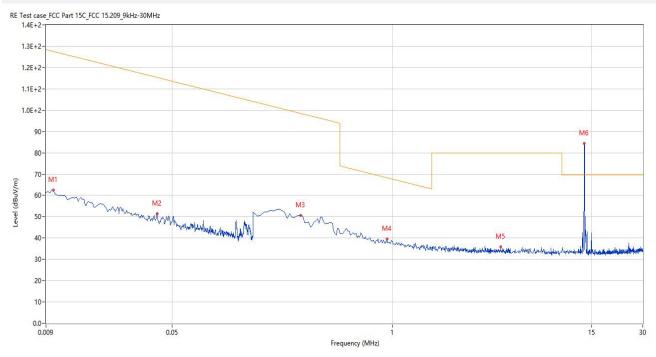
Note 1: This frequency which near 13.560 MHz with circle should be ignored because they are NFC carrier frequency.

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.

Sample No.	S01	Temperature	21.9°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.20

### The Data and Plots (9 kHz ~ 30 MHz)(at 10m chamber)

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	0.010	62.59	19.94	127.6	65.01	Peak	82.00	100	Vertical	Pass
2	0.041	51.41	19.23	115.4	63.99	Peak	108.00	100	Vertical	Pass
3	0.287	50.66	18.99	98.4	47.74	Peak	286.00	100	Vertical	Pass
4	0.926	39.59	19.04	68.3	28.71	Peak	108.00	100	Vertical	Pass
5	4.353	35.92	19.49	80.0	44.08	Peak	149.00	100	Vertical	Pass
6	13.552	84.35	19.21	69.5	-14.85	Peak	199.00	100	Vertical	N/A

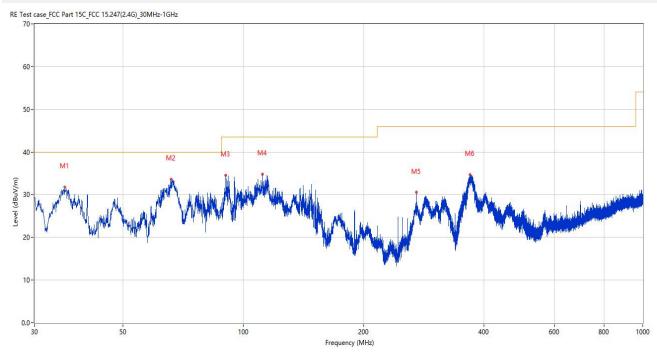


	Equipment Information							
Description	Manufacturer	Model	Equipment No	Cal. Date	Cal. Due	Use		
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2024.02.22	2025.02.21	$\square$		
Test Antenna-	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	$\boxtimes$		
Loop	CONTRACEDEDIC		BIT-ENIO-E007	2024.00.11	2027.00.10			
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	$\boxtimes$		
Description	Manufacturer	Name	Version		/	Use		
Test Software	BALUN	BL410-E	V21.919		/	$\boxtimes$		



#### Test Data and Plots (30 MHz ~ 10th Harmonic)

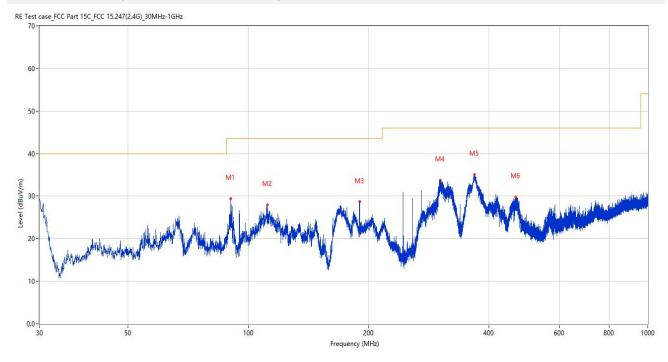
#### 30 MHz to 1 GHz, Test Antenna Vertical, EUT X axis



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	35.675	31.75	-27.51	40.0	8.25	Peak	53.00	100	Vertical	Pass
2	65.987	33.64	-27.66	40.0	6.36	Peak	88.00	100	Vertical	Pass
3	90.382	34.58	-27.94	43.5	8.92	Peak	71.00	100	Vertical	Pass
4	111.529	34.81	-26.74	43.5	8.69	Peak	360.00	100	Vertical	Pass
5	271.190	30.52	-24.02	46.0	15.48	Peak	53.00	100	Vertical	Pass
6	369.500	34.64	-21.46	46.0	11.36	Peak	152.00	100	Vertical	Pass



#### 30 MHz to 1 GHz, Test Antenna Horizontal, EUT X axis



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	90.334	29.46	-27.95	43.5	14.04	Peak	48.00	200	Horizontal	Pass
2	111.480	27.98	-26.73	43.5	15.52	Peak	155.00	200	Horizontal	Pass
3	189.856	28.67	-26.43	43.5	14.83	Peak	82.00	100	Horizontal	Pass
4	302.328	33.80	-23.24	46.0	12.20	Peak	65.00	100	Horizontal	Pass
5	368.482	35.12	-21.48	46.0	10.88	Peak	76.00	100	Horizontal	Pass
6	467.179	29.82	-19.17	46.0	16.18	Peak	282.00	100	Horizontal	Pass

	Radiated Emissions								
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use			
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2024.02.22	2025.02.21	$\square$			
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9163	BH-EMC-L132	2024.03.11	2027.03.10				
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	$\boxtimes$			
Description	Manufacturer	Name		Ver	sion	Use			
Test Software	BALUN	BL410-E V21.919			$\square$				



# A.4 Frequency Stability

Note 1: Because the 115% (10.35V)of the rated supply voltage value exceeds the cut-off voltage upper(10.2V) limit of the manufacturer, the cut-off voltage of EUT is test here.

Note 2: The operating temperature range of	of the EUT is -20°C to 50°C.
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Sample No.	S01	Temperature	21.9°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.20

OPERATING FREQUENCY:	13560000 Hz
REFERENCE VOLTAGE:	9.0 V
DEVIATION LIMIT:	±0.01%

	Test C	onditions			
VOLTAGE (%)	Power	Temperatur	Frequency(Hz)	Deviation(%)	Verdict
	(VDC)	e (°C)			
100		-20	13560000	0.000000	
100		-10	13560000	0.000000	
100		0	13559792	-0.001534	
100	0	+10	13559792	-0.001534	
100	9	+20	13560025	0.000184	
100		+25	13559792	-0.001534	
100		+30	13560000	0.000000	Pass
100		+40	13560025	0.000184	
100		+50	13560000	0.000000	
MAX(Battery	7.2	1.20	12550702	0.001524	
End Point, 85)	1.2	+20	13559792	-0.001534	
MIN(Battery	10.25	1.20	12560000	0.00000	]
End Point, 115)	10.35	+20	13560000	0.000000	



Equipment Information									
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use			
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2024.02.22	2025.02.21	$\boxtimes$			
Test Antenna- Loop	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	$\boxtimes$			
Temperature Chamber	YOMA	DTL-0035	TJ8980-012	2024.04.12	2025.04.12				
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	$\boxtimes$			



# A.5 Conducted Emissions

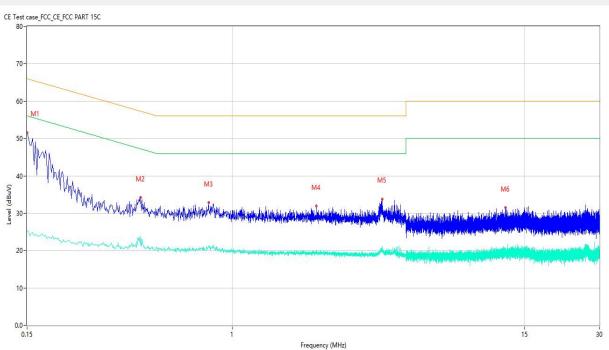
Note 1: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.



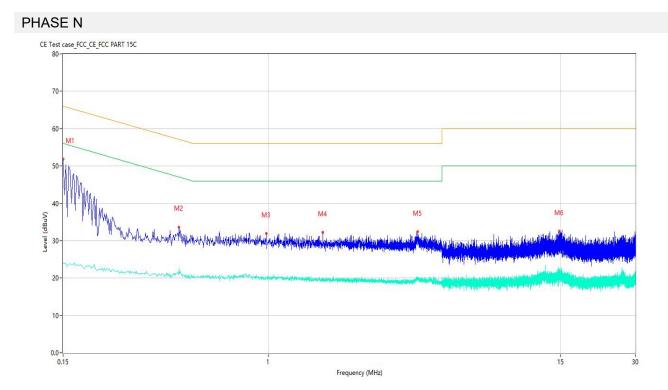
Sample No.	S01	Temperature	25.6°C
Humidity	41%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.22

#### Test Data and Plots

#### PHASE L



No.	Frequency	Results	Factor	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.150	51.46	9.75	66.00	14.54	Peak	L	Pass
1**	0.150	25.37	9.75	56.00	30.63	AV	L	Pass
2	0.430	34.19	9.74	57.25	23.06	Peak	L	Pass
2**	0.430	23.85	9.74	47.25	23.40	AV	L	Pass
3	0.806	32.89	9.71	56.00	23.11	Peak	L	Pass
3**	0.806	21.07	9.71	46.00	24.93	AV	L	Pass
4	2.180	31.90	9.68	56.00	24.10	Peak	L	Pass
4**	2.180	19.24	9.68	46.00	26.76	AV	L	Pass
5	4.008	33.82	9.66	56.00	22.18	Peak	L	Pass
5**	4.008	21.26	9.66	46.00	24.74	AV	L	Pass
6	12.560	31.49	9.36	60.00	28.51	Peak	L	Pass
6**	12.560	19.80	9.36	50.00	30.20	AV	L	Pass



No.	Frequency	Results	Factor	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.150	51.83	9.69	66.00	14.17	Peak	N	Pass
1**	0.150	24.01	9.69	56.00	31.99	AV	N	Pass
2	0.438	33.67	9.79	57.10	23.43	Peak	N	Pass
2**	0.438	22.58	9.79	47.10	24.52	AV	N	Pass
3	0.986	31.90	9.86	56.00	24.10	Peak	N	Pass
3**	0.986	20.34	9.86	46.00	25.66	AV	N	Pass
4	1.662	32.25	9.86	56.00	23.75	Peak	N	Pass
4**	1.662	19.89	9.86	46.00	26.11	AV	N	Pass
5	4.004	32.37	9.84	56.00	23.63	Peak	N	Pass
5**	4.004	19.75	9.84	46.00	26.25	AV	N	Pass
6	14.830	32.49	9.52	60.00	27.51	Peak	N	Pass
6**	14.830	21.27	9.52	50.00	28.73	AV	N	Pass

Equipment Information									
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use			
EMI Receiver	KEYSIGHT	N9038A	TJEMC144	2024.04.06	2025.04.05	$\square$			
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2024.02.25	2025.02.24				
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2024.02.19	2025.02.18	$\boxtimes$			
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21	$\boxtimes$			
Description	Manufacturer	N	ame	Ver	Use				
Test Software	BALUN	BL4	410-E	V19	$\square$				







# ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SH2510034-AE-1.PDF".

# ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SH2510034-AW.PDF".

# ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SH2510034-AI.PDF".



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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--