Report No: CCISE190704306V01

# **FCC REPORT**

Applicant: PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road,

Wanchai, Hong Kong

**Equipment Under Test (EUT)** 

Product Name: POS Terminal

Model No.: IM30

Trade mark: PAX

FCC ID: V5PIM30BW

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.225

Date of sample receipt: 11 Jul., 2019

**Date of Test:** 11 Jul., to 16 Aug., 2019

Date of report issue: 05 Step., 2019

Test Result: PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

#### Authorized Signature:



Bruce Zhang

Laboratory Manager

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Report No: CCISE190704306V01

# **Version**

Version No.	Date	Description		
00	19 Aug., 2019	Original		
01	05 Step., 2019	Update page 11~13		

Mike. DU Date:

Test Engineer Tested by: 05 Step., 2019

Reviewed by: 05 Step., 2019

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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.225 (a)	Pass
Spurious emissions	15.225(d)& 15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Frequency tolerance	15.225 (e)	Pass
Conducted Emission	15.207	Pass

Remarks:

Pass: The EUT complies with the essential requirements in the standard.



# **5** General Information

# **5.1** Client Information

Applicant:	PAX Technology Limited	
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong	
Manufacturer/ Factory:	PAX Computer Technology(Shenzhen) Co. Ltd.	
Address:	401-402 No.3 Building, Software Park, Nanshan district, Shenzhen, Guangdong, P.R.C.	

# 5.2 General Description of E.U.T.

Product Name:	POS Terminal
Model No.:	IM30
Operation Frequency:	13.56MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	Induction Coil Antenna
IC Card Type:	Support: Type A, Type B, Type M
Power supply:	DC 12V-48V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.



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#### 5.3 Test mode

Transmitting mode: Keep the EUT in transmitting mode with modulation					
Pre-Test Mode:					
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:					
Axis X Y Z					
Field Strength(dBuV/m) 59.33 59.95 58.21					
Final Test Mode:					

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo).

### 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)

# 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
HONOR	AC Adapter	ADS-65HI-19A-2 24065E	N/A	N/A

### 5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

### ● FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

#### ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

#### ● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

#### A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

# 5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen ZhongjianNanfang Testing Co., Ltd.
No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





# 5.8 Test Instrumentslist

Radiated Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020		
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019		
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-18-2019	03-17-2020		
EMI Test Software	AUDIX	E3	V	Version: 6.110919b			
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020		
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020		
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-18-2019	03-17-2020		
Signal Generator	R&S	SMR20	1008100050	03-18-2019	03-17-2020		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020		
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020		

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date	Cal.Due date		
rest Equipment	Manufacturei	Woder No.	inventory No.	(mm-dd-yy)	(mm-dd-yy)		
Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020		
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-18-2019	03-17-2020		
LISN	CHASE	MN2050D	CCIS0074	03-18-2019	03-17-2020		
LICN	Rohde & Schwarz	Dalada 8 Oalawara		07-21-2018	07-20-2021		
LISN	Ronde & Schwarz	ESH3-Z5	8438621/010	07-21-2019	07-20-2020		
Coaxial Cable	CCIS	N/A	CCIS0086	03-18-2019	03-17-2020		
EMI Test Software	AUDIX	E3	Version: 6.110919b				



# 6 Test results and Measurement Data

### 6.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

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, 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.

#### **E.U.T Antenna:**

The EUT make use of an Induction coil antenna.





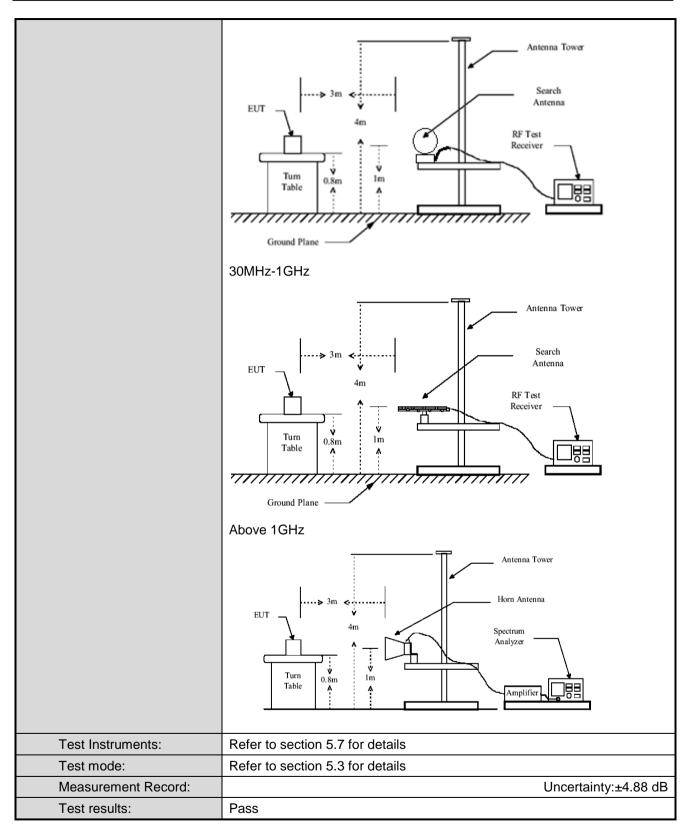


# 6.2 Radiated Emission

0.2	2.2 Radiated Emission							
	Test Requirement:	FCC Part15 C Se	FCC Part15 C Section 15.225(a) and 15.209					
	Test Method:	ANSI C63.10: 20	13					
	TestFrequencyRange:	9 kHz to 1000MF	lz					
	Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)						
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark		
	•	9kHz-150kHz	Quasi-peak	200Hz 600Hz		Quasi-peak Value		
		150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
		30MHz-1GHz	Quasi-peak		300KHz	-		
		Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Limit:	Frequen		Limit (uV/m @	@30m)	Limit (dBuV/m @3m)		
	(Field strength of the	13.553MHz-13	.567MHz	15848		124.0		
	fundamental signal)	13.410MHz-13.5 13.567MHz-13		334		90.5		
		13.110MHz-13.4 13.710MHz-14	.010MHz	106		80.5		
	Lineite	Remark: Per FCC part 15.31, when performingmeasurements distancethan specified, the results shallbe extrapolated to the distanceby either making measurementsat a minimum of two one radial to determine the properextrapolation factor or by us inverse linear distance extrapolationfactor (40 dB/decade).				the specified two distances on atleast by using thesquare of an ).		
	Limit:	Frequency (		Limit (uV/m @3m)		Distance (m) 300		
	(Spurious Emissions)	0.009-0.490 0.490-1.705		2400/F(kHz) 24000/F(kHz)		300		
		1.705-30		30		30		
		30-88		100	)	3		
		88-216	;	150		3		
		216-960	216-960			3		
		Above 1GHz		500		3		
	Test Procedure:	<ul> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antennatower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst call and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak value of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data</li> </ul>				The table was rotated nest radiation. erence-receiving able-height antenna four meters above the ield strength. Both na are set to make anged to its worst case 1 meter to 4 meters as to 360 degrees to the Function and as 10dB lower than and the peak values issions that did not erusing peak, quasi-		
	Test setup:	sheet. 9kHz-30MHz						







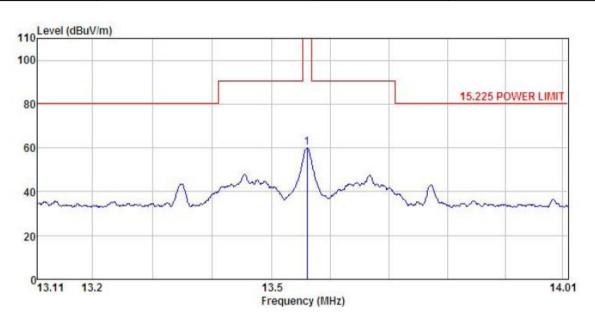


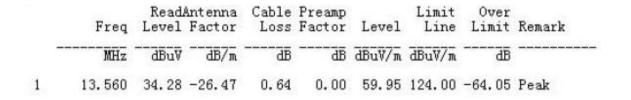


#### **Measurement Data:**

#### Field Strength of fundamental signal:

Product Name:	POS Terminal	Product Model:	IM30	
Test By:	Mike	Test mode:	NFC Tx mode	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	





Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

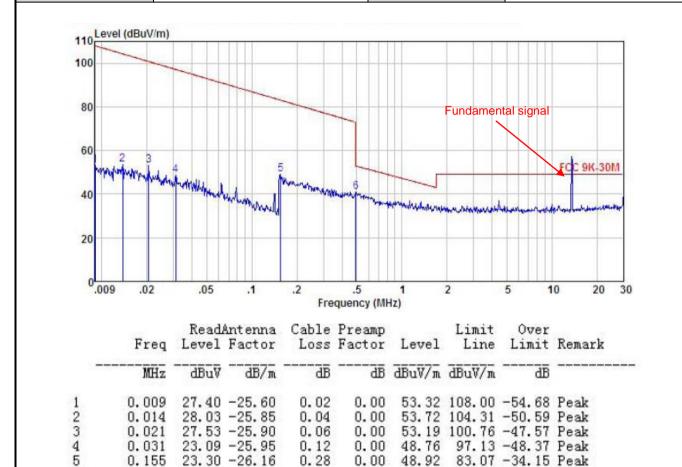




#### **Spurious Emissions:**

Test frequency range: 9 kHz- 30 MHz

Product Name:	POS Terminal	Product Model:	IM30
Test By:	Mike	Test mode:	NCF Tx mode
Test Frequency:	150 kHz ~ 30 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



#### Remark:

0.495

15.24 -26.30

0.45

0.00

40.89

52.92 -12.03 Peak

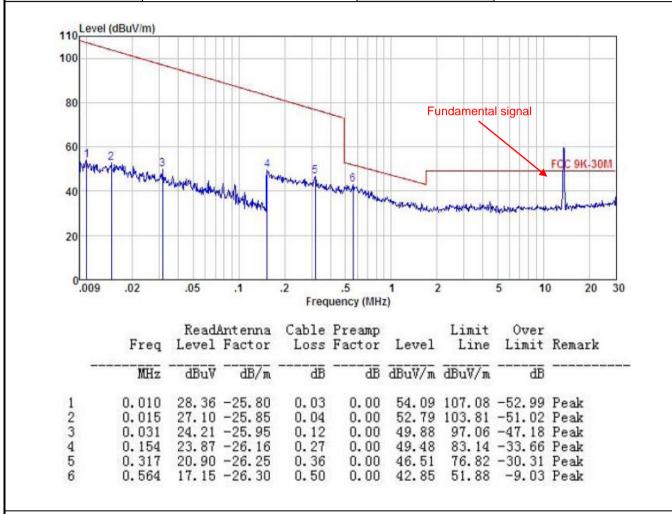
<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

<sup>2.</sup> The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.





Product Name:	POS Terminal	Product Model:	IM30	
Test By:	Mike	Test mode:	NFC Tx mode	
Test Frequency:	150 kHz ~ 30 MHz	Polarization:	Horizontal	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	



#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

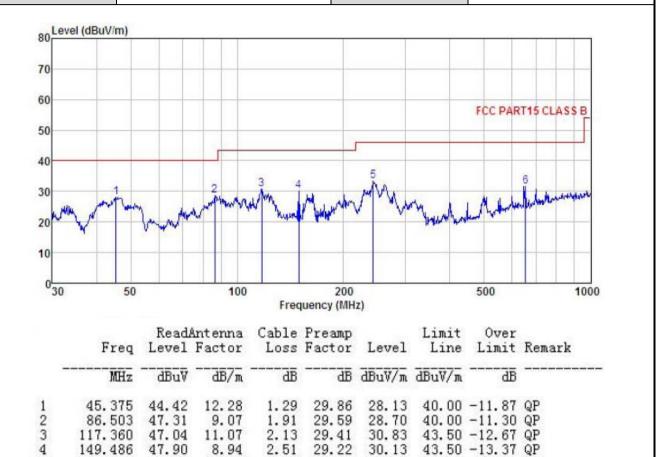
<sup>2.</sup> The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.





Test frequency range: 30MHz-1000MHz

Product Name:	POS Terminal	Product Model:	IM30	
Test By:	Mike	Test mode:	NFC Tx mode	
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	



#### Remark

5

242.525

654.232

12.42

19.78

46.77

36.80

2.82

3.89

28.58

28.77

33.43

31.70

46.00 -12.57 QP

46.00 -14.30 QP

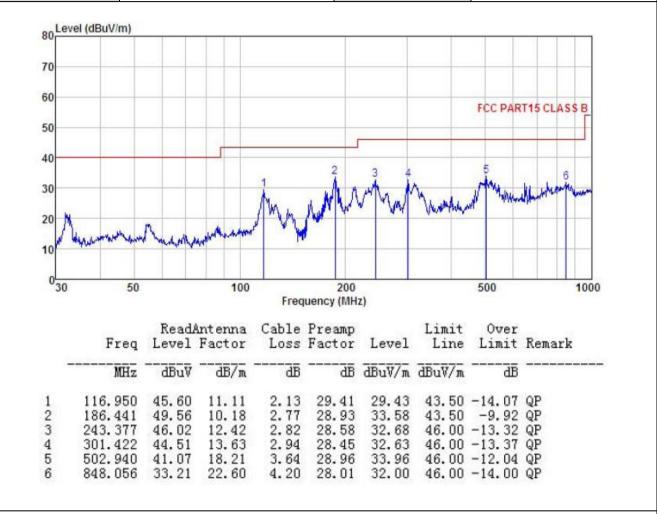
<sup>1.</sup> Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

<sup>2.</sup> The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	POS Terminal	Product Model:	IM30
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



#### Remark:

<sup>1.</sup> Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

<sup>2.</sup> The emission levels of other frequencies are very lower than the limit and not show in test report.



# 6.3 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)				
Test Method:	ANSI C63.4:2014				
Receiver setup:	RBW=200Hz, VBW=300Hz, detector: Peak				
Limit:	The fundamental emission be kept within atleast the central 80% of the permitted band				
Test Procedure:	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set the EUT to proper test channel.</li> <li>Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points.</li> <li>Read 20dB bandwidth.</li> </ol>				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

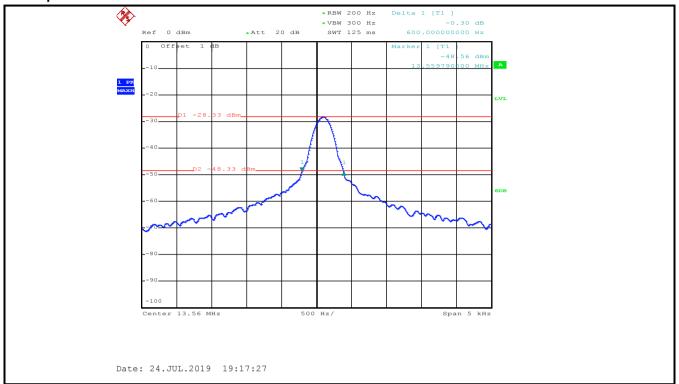
#### **Measurement Data**

20dB bandwidth (kHz)	Limit (kHz)	Results			
0.600	11.2	Passed			
Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.					





### Test plot as follows:







# **6.4 Frequency Tolerance**

Tool Dominion	EOO Daniel O Oanting 45 005 (a)	
Test Requirement:	FCC Part15 C Section 15.225 (e)	
Test Method:	ANSI C63.10: 2013	
Receiver setup:	RBW=200Hz, VBW=300Hz, span=14kHz, detector: Peak	
Limit:	±0.01% of the operating frequency	
Test mode:	Transmitting mode	
Test Procedure:	<ol> <li>Frequency stability V.S. Temperature measurement</li> <li>The equipment under test was powered by a fresh battery.</li> <li>RF output was connected to spectrum analyzer via feed through attenuators.</li> <li>The EUT was placed inside the temperature chamber.</li> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency.</li> <li>Turn EUT off and set the chamber temperature to −20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> <li>Frequency stability V.S. Voltage measurement</li> <li>Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.         Reduce the input voltage to specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change.</li> </ol>	
Test setup:	Spectrum Analyzer    E.U.T   Non-Conducted Table	
	Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	





#### **Measurement Data:**

### a) Frequency stability V.S. Temperature measurement

Voltage (Vdc)	Temperature (°C)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	-20	0.082	0.0060	0.01	Pass
	-10	0.076	0.0056	0.01	Pass
	0	-0.075	-0.0055	0.01	Pass
24.0	+10	0.081	0.0060	0.01	Pass
24.0	+20	-0.079	-0.0058	0.01	Pass
	+30	0.062	0.0046	0.01	Pass
	+40	0.079	0.0058	0.01	Pass
	+50	-0.042	-0.003	0.01	Pass

### b) Frequency stability V.S. Voltage measurement

Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	10.2	-0.085	-0.0068	0.01	Pass
25	24.0	0.071	0.0054	0.01	Pass
	55.2	0.092	0.0066	0.01	Pass



# 6.5 Conducted Emission

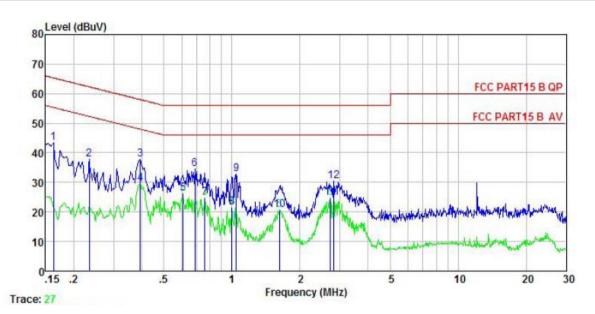
Test Requirement:	FCC Part15	B Section 15.	207				
Test Method:	ANSI C63.4:2014						
TestFrequencyRange:	150kHz to 30	150kHz to 30MHz					
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz,	VBW=30kHz					
Limit:	Limit (dBuV)						
	Frequency	range (MHz)	Qu	asi-peak		Average	
	0.15	5-0.5		6 to 56*		56 to 46*	
	0.	5-5		56		46	
		5-30		60		50	
Test setup:	* Decreases	with the logar		equency.			
Test procedure	Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provide a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN					50uH coupling through a LISN termination.	
Todayainanada	Both side order to fit of the inte conducted	es of A.C. line and the maximurface cables at measureme	are checked um emission must be char nt.	nged according t	onducted in sitions of e	nterference. In quipment and all 33.4: 2003 on	
Test environment:	Temp.:	23°C	Humid.:	56%	Press.:	101kPa	
Measurement Record:					Uncert	ainty: 3.28dB	
Test Instruments:	Refer to sect	ion 5.7 for de	tails				
Test mode:	Refer to section 5.3 for details						
Test results:	Pass	Pass					





#### **Measurement Data:**

Product name:	POS Terminal	Product model:	IM30
Test by:	Mike	Test mode:	NFC Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



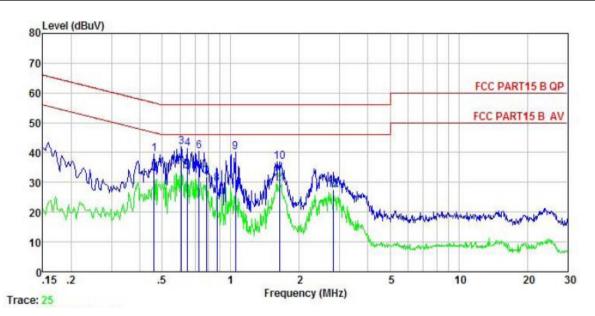
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	₫B	dB	dBu∇	dBu∇	<u>dB</u>	
1 2 3 4 5 6 7 8 9	0.162	33.05	-0.44	10.77	43.38	65.34	-21.96	QP
2	0.234	27.58	-0.40	10.75	37.93	62.30	-24.37	QP
3	0.393	27.40	-0.37	10.72	37.75	57.99	-20.24	QP
4	0.393	19.32	-0.37	10.72	29.67	47.99	-18.32	Average
5	0.608	16.02	-0.38	10.77	26.41			Average
6	0.686	24.17	-0.38	10.77	34.56	56.00	-21.44	QP
7	0.759	14.40	-0.38	10.80	24.82	46.00	-21.18	Average
8	1.000	11.02	-0.38	10.87	21.51			Average
9	1.043	22.32	-0.38	10.88	32.82		-23.18	
10	1.619	10.18	-0.40	10.93	20.71			Average
11	2.721	14.16	-0.43	10.93	24.66			Average
12	2.809	19.94	-0.44	10.93	30.43		-25.57	

#### Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	POS Terminal	Product model:	IM30		
Test by:	Mike	Test mode:	NFC Tx mode		
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral		
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%		



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∀	₫B	₫B	dBu₹	dBu∇	<u>d</u> B	
1	0.461	29.52	-0.65	10.74	39.61	56.67	-17.06	QP
2	0.461	23.11	-0.65	10.74	33.20	46.67	-13.47	Average
3	0.608	31.77	-0.64	10.77	41.90	56.00	-14.10	QP
4	0.647	31.26	-0.64	10.77	41.39	56.00	-14.61	QP
2 3 4 5 6 7 8 9	0.647	23.42	-0.64	10.77	33.55	46.00	-12.45	Average
6	0.727	30.18	-0.64	10.78	40.32	56.00	-15.68	QP
7	0.783	21.71	-0.64	10.81	31.88	46.00	-14.12	Average
8	0.871	19.34	-0.63	10.83	29.54	46.00	-16.46	Average
9	1.049	29.83	-0.63	10.88	40.08	56.00	-15.92	QP
10	1.645	26.73	-0.66	10.93	37.00	56.00	-19.00	QP
11	1.645	19.27	-0.66	10.93	29.54	46.00	-16.46	Average
12	2.824	17.27	-0.67	10.93	27.53	46.00	-18.47	Average

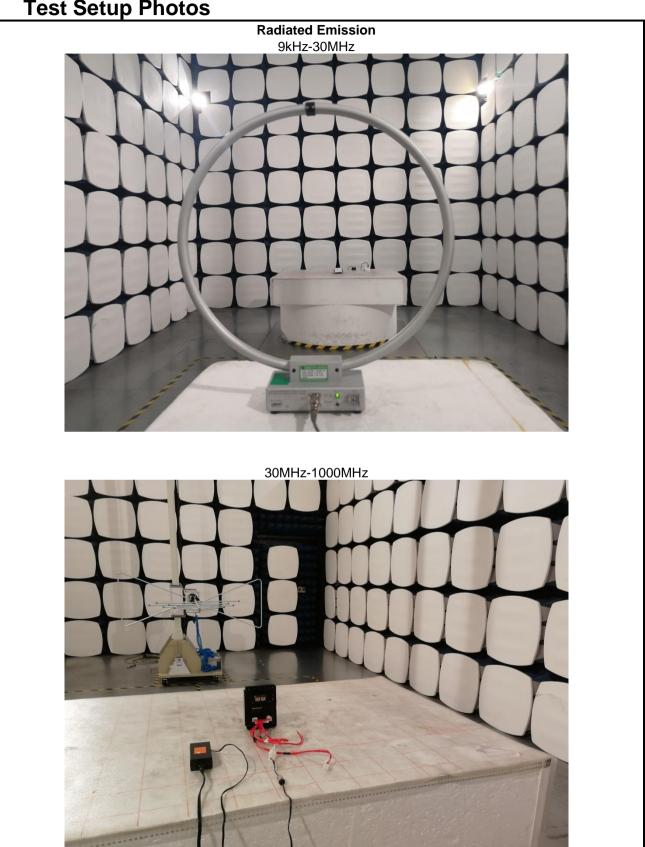
#### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



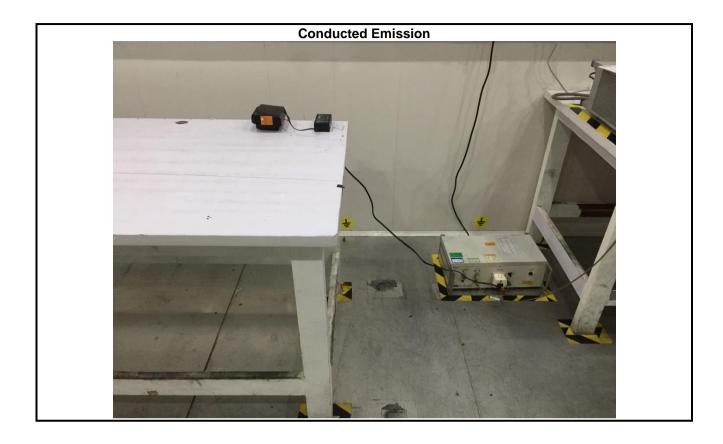


**Test Setup Photos** 









# 8 EUT Constructional Photos

Reference to the test report No. CCISE190704301

-----End of report-----