

Report No: JYTSZE200903201V01

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 (B	EUT)				
Product Name:	POS Terminal				
Model No.:	Q30				
Trade mark:	PAX				
FCC ID:	V5PQ30LRC				
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.225				
Date of sample receipt:	11 Sep., 2020				
Date of Test:	11 Sep., to 27 Oct., 2020				
Date of report issue:	28 Oct., 2020				
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 JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version 2

Version No.	Date	Description
00	28 Oct., 2020	Original
01	10 Nov., 2020	Update Chapter 4

Tested by: _____

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Reviewed by: Winner thang Project Engineer

Date: 28 Oct., 2020



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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 and Within the bands	15.225 (a)&(b)&(c)	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				
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by						

 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).
 Test Method: ANSI C63.4-2014 ANSI C63.10-2013



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:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High- Tech industrial Park, Shenzhen, Guangdong, P.R.C.

5.2 General Description of E.U.T.

Product Name:	POS Terminal
Model No.:	Q30
Operation Frequency:	13.56MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	Induction Coil Antenna
AC adapter:	Model: HKA00505010-2P
	Input: AC100-240V, 50/60Hz, 0.25A
	Output: DC 5V, 1A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test mode and test samples plans

Transmitting mode:	ransmitting mode: Keep the EUT in transmitting mode with modulation							
Pre-Test Mode:								
JYT 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	Axis X Y Z							
Field Strength(dBuV/m)	Field Strength(dBuV/m) 61.80 61.86 61.82							
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 Description of Support Units

N/A



5.5 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)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen 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 JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: <u>http://www.ccis-cb.com</u>



5.9 Test Instrumentslist

Radiated Emission:							
Test Equipment	Manufacturer	Manufacturer Model No. Serial No.		Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021		
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2020	06-21-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020		
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-07-2020	03-06-2021		
EMI Test Software	AUDIX	E3	V	ersion: 6.110919b			
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021		
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2020	03-06-2021		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2020	03-06-2021		
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-07-2020	03-06-2021		
Signal Generator	R&S	SMR20	1008100050 03-07-2020 (03-06-2021		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021		
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021		

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date	Cal.Due date		
				(mm-dd-yy)	(mm-dd-yy)		
Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2020	07-21-2021		
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2020	03-06-2021		
LISN	CHASE	MN2050D	CCIS0074	03-07-2020	03-06-2021		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021		
Coaxial Cable	CCIS	N/A	CCIS0086	03-07-2020	03-06-2021		
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 responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electro connector is prohibited.						
E.U.T Antenna:						
The EUT make use of an Induction coil antenna.						

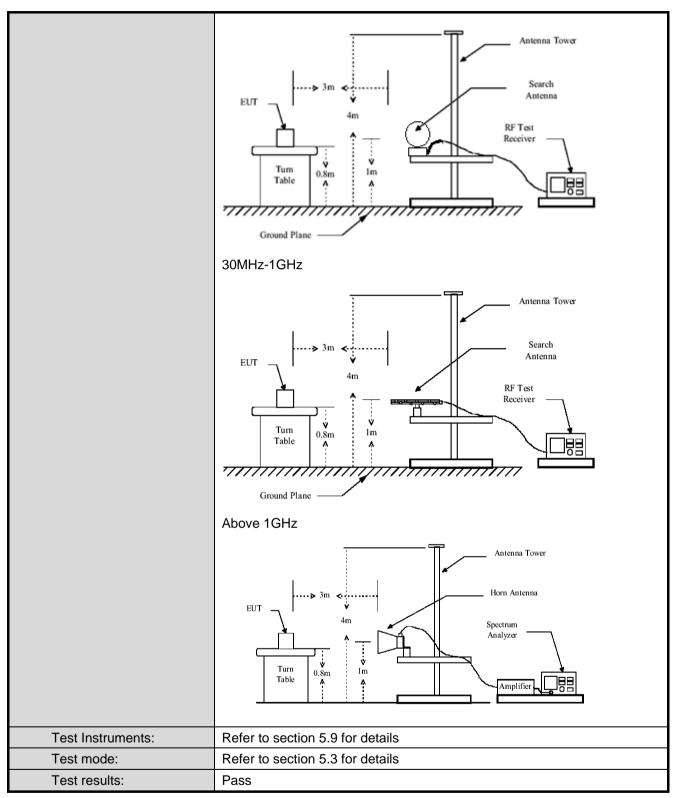


6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.225(a) and 15.209							
Test Frequency Range:	9 kHz to 1000MHz							
Test site:	Measurement D	nent Distance: 3m(Semi-Anechoic Chamber)						
Receiver setup:	Frequency	Detect	tor	RBW	VBW Remark			
	9kHz-150kHz	Quasi-p	eak	200Hz	60	0Hz	Quasi-peak Value	
	150kHz-30MHz	Quasi-p	eak	9kHz	30)kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-p	eak	120kHz	300	0KHz	Quasi-peak Value	
	Above 1GHz	Peak	(1MHz	31	MHz	Peak Value	
Limit:	Frequency	/	Li	imit (uV/m @30r	n)	Lim	it (dBuV/m @3m)	
(Field strength of the	13.553MHz-13.5	67MHz		15848			124.0	
fundamental signal)	13.410MHz-13.55	3MHz &		334			90.5	
	13.567MHz-13.7	10MHz		334			50.5	
	13.110MHz-13.41	0MHz &		106			80.5	
	13.710MHz-14.0 Remark:	10MHz		100			00.0	
	than specified, the distance by using 40 dB/decade) in this part.	e field street the square conjunctio	ngth r e of a on with	esults shall be e n inverse linear o n the slant-range	ements at a distance which is close be extrapolated to the specified ear distance extrapolation factor (i.e nge distance defined in §15.3(hh) c			
Limit:	Frequency (M		L	imit (uV/m @3m	ı)		Distance (m)	
(Spurious Emissions)	0.009-0.49			2400/F(kHz)		300		
	0.490-1.705		24000/F(kHz)		30			
	1.705-30		30		30			
	30-88 100				3			
	88-216			150		3		
	216-960 Above 1GH	7		200 500			3	
Test Procedure:			on th		tina t	l able 0.8	-	
	 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 todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 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. d. For each suspected emission, the EUT was arranged to its worst case 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. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 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 values 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 							
Test setup:	9kHz-30MHz							









Measurement Data:

Field Strength of fundamental signal:

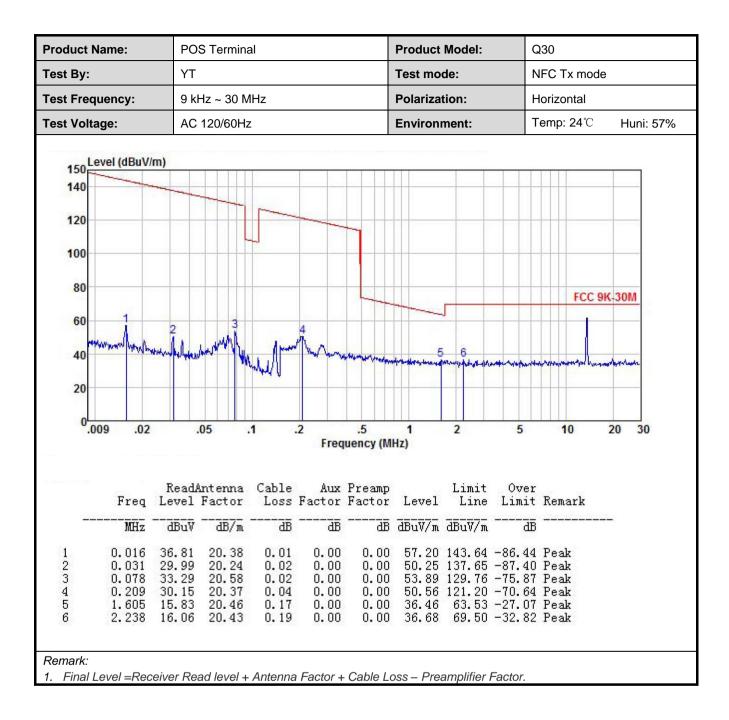
roduct Name: est By:		POS Terminal YT				Product Model:			G	Q30		
					Tes	Test mode:			NFC Tx mode			
st Vol	Itage:	AC	120/60Hz			Env	vironmer	nt:	Т	ēmp: 24 ℃	Huni: 57%	
130 120 100 80 60	Level (dBuV	/m)								15.225 PO\	WER LIMIT	
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20	nan Manahan na n	2	mant	man	13 Fr				n An	n frank f		
20	13.11 13.		ntenna Factor	Cable	Fr	5.5	MHz)		Over Limit	Remark	14.01	
20	13.11 13.			Cable Loss	Fr	.5 equency (Preamp Factor	MHz) Level		Limit	Remark	14.01	



Spurious Emissions: Test frequency range: 9 kHz- 30 MHz

oduct Name	•	POS	S Termin	al			Produc	t Model:		Q30			
st By:		YT	YT				Test mo	ode:		NFC Tx mode			
st Frequenc	ency: 9 kHz ~ 30 MHz						Polariza	ation:		Vertica	I		
st Voltage:		AC	120/60H	Z			Enviror	nment:		Temp: :	24 ℃	Hur	ni: 57%
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140													
120													
100			-										_
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40 ⁴⁰ 20 0.009	.02	.0 ReadA	5 .	1 Cable	Free	.5 quency (N Preamp	1 IHz)	2 Limit	Over			20	30
40 40 40 40 40 40 40 40 40 40 40 40 40 4	.02 Treq	.0 ReadA Level	5 .	1 Cable Loss	Frec Aux Factor	.5 quency (N Preamp Factor	1 IHZ) Level	2 Limit Line	Over Limit			20	30
40 40 40 40 40 40 40 40 40 40 40 40 40 4	.02 req MHz	ReadA Level	5 . ntenna Factor dB/m	1 Cable Loss dB	Aux Factor dB	.5 quency (N Preamp Factor dB	1 IHZ) Level dBuV/m	2 Limit Line dBuV/m	Over Limit dB	Remar		20	30
40 20 0.009 F 1 0.	.02 req MHz 016 031	.0 ReadA Level dBuV 36.35 30.73	5 . ntenna Factor 	1 Cable Loss	Free Aux Factor 	.5 quency (N Preamp Factor dB 0.00 0.00	1 IHZ) Level dBuV/m 56.74 50.99	2 Limit Line dBuV/m 143.71 137.65	Over Limit dB -86.97 -86.66	Remar Peak Peak		20	30
40 20 0.009 F 1 0.	.02 req MHz 016 031 070	.0 ReadA Level dBuV 36.35 30.73 29.23	5 . ntenna Factor 	Cable Loss dB 0.01 0.02 0.02	Free Aux Factor dB 0.00 0.00 0.00	.5 quency (N Preamp Factor dB 0.00 0.00 0.00	1 IHZ) Level dBuV/m 56.74 50.99 49.75	2 Limit Line dBuV/m 143.71 137.65 130.74	Over Limit dB -86.97 -86.66 -80.99	Remar Peak Peak Peak		20	30
40 20 0.009 F 1 0. 2 0. 3 0. 4 0. 5 1.	.02 req MHz 016 031	.0 ReadA Level dBuV 36.35 30.73	5 . ntenna Factor 	Cable Loss dB 0.01 0.02	Free Aux Factor dB 0.00 0.00 0.00 0.00 0.00	.5 quency (N Preamp Factor 	1 IHZ) Level dBuV/m 56.74 50.99 49.75 47.19 36.70	2 Limit Line dBuV/m 143.71 137.65 130.74 121.20 63.74	Over Limit dB -86.97 -86.66 -80.99	Remar Peak Peak Peak Peak Peak		20	30







Test frequency range: 30MHz-1000MHz

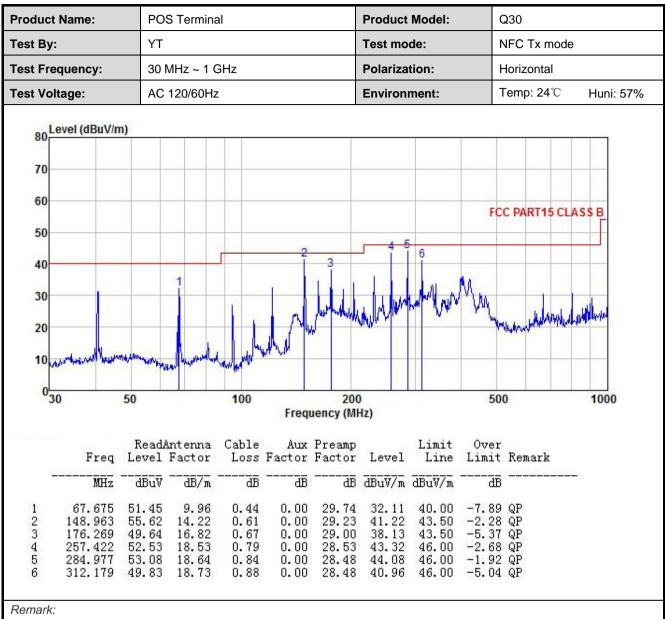
oduct Name:				Product Model: Test mode:			Q30 NFC Tx mode		
st By:									
st Frequency:	30 MHz ~ 1	30 MHz ~ 1 GHz			Polarization:		Vertical		
st Voltage:	AC 120/60	Ηz		Environ	ment:		Temp: 24 ℃	Huni: 579	
Level (dBuV/m	1)								
80									
70						_			
60									
00							FCC PART15	CLASS B	
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	2	3	4	5		6			
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30 20 m/m/h 10	50		Frequency (und modeling ha	Jun May	Mangelandari 500		
30 20 10 0 30	50 ReadAntenna Level Factor	. Cable A	F <mark>requency(</mark> ux Preamp	MHz)	Limit	Over		1000	
30 20 10 0 30	ReadAntenna	Cable A Loss Fact	F requency (ux Preamp or Factor	MHz)	Line	Over	Remark	1000	
30 20 10 0 30 Freq MHz 1 40.559	ReadAntenna Level Factor dBuV dB/m 53.59 12.81	Cable A Loss Fact 	Frequency (ux Preamp or Factor dB dB 00 29.90	MHz) Level dBuV/m 36.85	Line <u>dBuV/m</u> 40.00	Over Limit 	Remark 	1000	
30 20 10 0 30 Freq MHz 1 40.559	ReadAntenna Level Factor dBuV dB/m 53.59 12.81 46.86 9.96	Cable A Loss Fact <u>dB</u> 0.35 0. 0.44 0.	Frequency (ux Preamp or Factor dBdB dB 00 29.90 00 29.74	MHz) Level dBuV/m 36.85 27.52	Line <u>dBuV/m</u> 40.00 40.00	Over Limit -3.15 -12.48	Remark 	1000	
30 20 10 0 30 Freq 10 0 30 Freq 1 4 10 0 30 Freq 1 4 10 10 10 10 10 10 10 10 10 10	ReadAntenna Level Factor dBuV dB/m 53.59 12.81 46.86 9.96	Cable A Loss Fact <u>dB</u> 0.35 0. 0.44 0. 0.57 0. 0.64 0.	Frequency (ux Preamp or Factor dB dB 00 29.90	MHz) Level dBuV/m 36.85 27.52 38.92 35.19	Line <u>dBuV/m</u> 40.00	Over Limit -3.15 -12.48 -4.58 -8.31	Remark QP QP QP QP	1000	

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

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

3. The Aux Factor is a notch filter switch box loss, this item is not used.





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

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

3. The Aux Factor is a notch filter switch box loss, this item is not used.



6.3 20dB Bandwidth

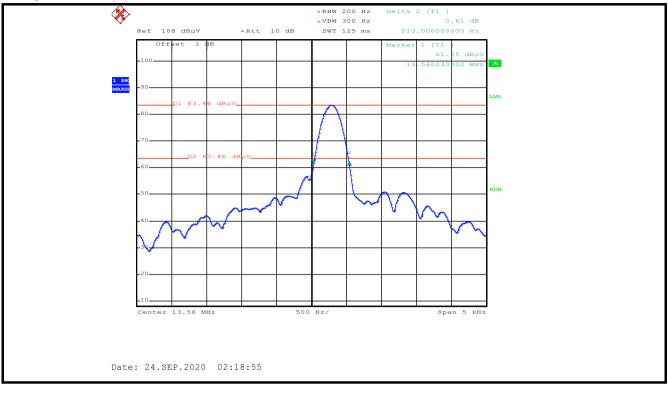
Test Requirement:	FCC Part15 C Section 15.215 (c)
Receiver setup:	RBW=200Hz, VBW=300Hz, detector: Peak
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

20dB bandwidth (kHz)	Limit (kHz)	Results
0.510	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

Test Requirement:	FCC Part15 C Section 15.225 (e)
Receiver setup:	RBW=200Hz, VBW=300Hz, span=14kHz, detector: Peak
Limit:	±0.01% of the operating frequency
Test mode:	Transmitting mode
Test Procedure:	Frequency stability V.S. Temperature measurement
	 The equipment under test was powered by a fresh battery. RF output was connected to spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached Frequency stability V.S. Voltage measurement Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 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 (℃)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	-20	0.078	0.0058	±0.01	Pass
	-10	0.085	0.0063	±0.01	Pass
	0	-0.074	-0.0055	±0.01	Pass
5.0V	+10	0.079	0.0058	±0.01	Pass
5.00	+20	-0.066	-0.0049	±0.01	Pass
	+30	0.084	0.0062	±0.01	Pass
	+40	0.067	0.0049	±0.01	Pass
	+50	-0.036	-0.0027	±0.01	Pass

b) Frequency stability V.S. Voltage measurement

Temperature (℃)	Voltage (Vdc)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	4.5	-0.085	-0.0063	±0.01	Pass
25.0	5.0	0.071	0.0052	±0.01	Pass
	5.5	0.092	0.0068	±0.01	Pass



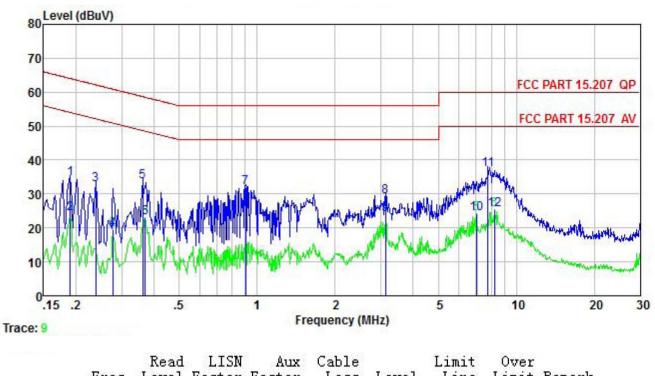
6.5 Conducted Emission

Test Requirement:	FCC Part15 B Section 15	.207					
TestFrequencyRange:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:			(dBµV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	0.5-30	60	50				
	* Decreases with the loga	rithm of the frequency.					
Test setup:	Reference	Plane					
	AUX E.U.T Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Nets Test table height=0.8m	EMI Receiver	power				
Test procedure	 50ohm/50uH coupling The peripheral devices a LISN that provides a termination. (Please re photographs). Both sides of A.C. line interference. In order to positions of equipment 	ation network (L.I.S.N.).I impedance for the meas are also connected to the 500hm/50uH coupling in fer to the block diagram	It provide a uring equipment. he main power through npedance with 500hm of the test setup and um conducted ssion, the relative cables must be changed				
Test Instruments:	Refer to section 5.9 for de						
Test mode:	Refer to section 5.3 for de	etails					
Test results:	Pass						



Measurement Data:

Product name:	POS Terminal	Product model:	Q30
Test by:	YT	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	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
<u>1998</u>	MHz	dBuV	<u>ab</u>	<u>ab</u>	₫₿	 dBu∛	 dBuV	<u>ab</u>	
1	0.190	24.50	-0.59	-0.14	10.76	34.53	64.02	-29.49	QP
2	0.190	14.15	-0.59	-0.14	10.76	24.18	54.02	-29.84	Average
3	0.238	22.74	-0.57	-0.20	10.75	32.72	62.17	-29.45	QP
4	0.277	9.59	-0.56	-0.24	10.74	19.53	50.90	-31.37	Average
5	0.361	23.24	-0.51	0.17	10.73	33.63	58.69	-25.06	QP
2 3 4 5 6 7 8 9	0.369	12.63	-0.50	0.23	10.73	23.09	48.52	-25.43	Average
7	0.904	21.31	-0.59	0.21	10.84	31.77	56.00	-24.23	QP
8	3.123	18.94	-0.43	-0.19	10.92	29.24	56.00	-26.76	QP
9	3.123	13.66	-0.43	-0.19	10.92	23.96	46.00	-22.04	Average
10	7.025	12.76	-0.56	1.33	10.80	24.33	50.00	-25.67	Average
11	7.769	25.33	-0.61	1.50	10.84	37.06	60.00	-22.94	QP
12	8.235	13.53	-0.64		10.86				Average

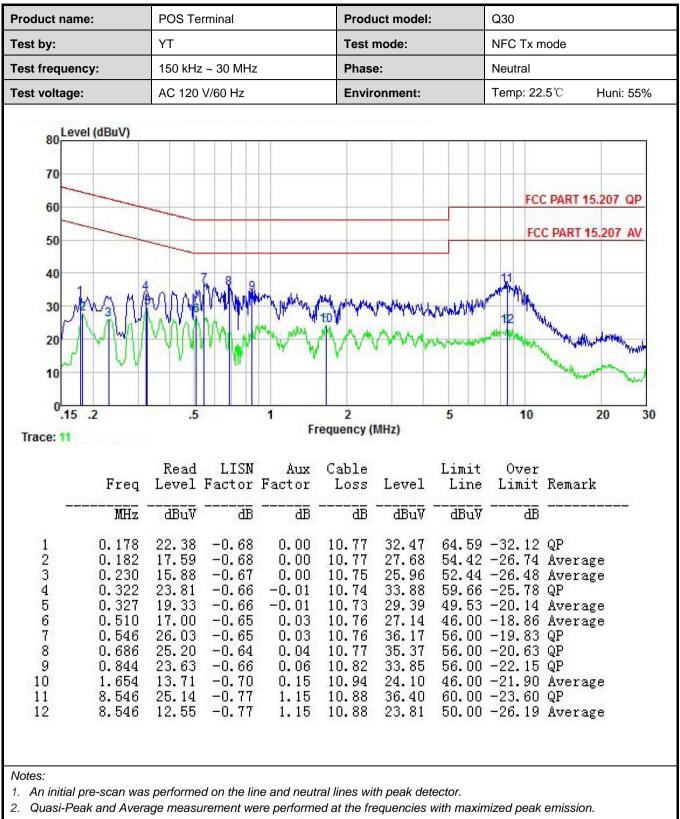
Notes:

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.





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