

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE190704608

FCC REPORT

(WCDMA)

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: V5PIM304GBW

FCC CFR Title 47 Part 2

Applicable standards: FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

FCC CFR Title 47 Part 27 Subpart L

Date of sample receipt: 11 Jul., 2019

Date of Test: 11 Jul., to 19 Aug., 2019

Date of report issued: 20 Aug., 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.

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2. Version

Version No.	Date	Description
00	20 Aug., 2019	Original

Tested by: Mike OU Date: 20 Aug., 2019

Test Engineer

Reviewed by: Date: 20 Aug., 2019

Project Engineer



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4. Test Summary

Test Item	Section in CFR 47	Result	
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass (Please refer to MPE Report)	
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4)	Pass*	
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50(d)(5)	Pass*	
Modulation Characteristics	Part 2.1047	Pass	
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(h)	Pass*	
Out of band emission at antenna terminals	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass*	
Field strength of spurious radiation	Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass	
Frequency stability vs. temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Pass*	
Frequency stability vs. voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Pass*	

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

Pass*: please refer to FCC ID: ZMONL668AM00, Report No.: FG801914-01A.





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:	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 range:	WCDMA Band V: 826.4MHz-846.6MHz WCDMA Band II: 1852.4 MHz-1907.6 MHz WCDMA Band IV: 1712.4 MHz-1752.6 MHz
Modulation type:	UMTS: QPSK
Antenna type:	Internal Antenna
Antenna gain:	WCDMA Band V: 2.3 dBi WCDMA Band II: 2.3 dBi WCDMA Band IV: 2.3 dBi
Power supply:	DC 12V-48V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.





Operation Frequency List:

WCDN	/IA Band V	WCDMA Band II		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
4132	826.40	9262	1852.40	
4133	826.60	9263	1852.60	
	••••	••••	••••	
4182	836.40	9399	1879.80	
4183	836.60	9400	1880.00	
4184	836.80	9401	1880.20	
4232	846.40	9537	1907.40	
4233	846.60	9538	1907.60	
WCDM	IA Band IV			
Channel	Frequency (MHz)			
1312	1712.40			
1313	1712.60			
1412	1732.40			
1413	1732.60			
1414	1732.80			
1512	1752.40			
1513	1752.60			

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

	WCDMA Band \	V	WCDMA Band II			
Chanr	Channel		Channel		Frequency(MHz)	
Lowest	4132	826.40	Lowest	9262	1852.40	
Middle	4183	836.60	Middle	9400	1880.00	
Highest	4233	846.60	Highest	9538	1907.60	
WCDMA Band IV						
Chanr	Channel					
Lowest	1312	1712.40				
Middle	1413	1732.60				
Highest	1513	1752.60				



5.3 Test modes

Operating Environment	Operating Environment:			
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C			
Humidity:	20 % ~ 75 % RH			
Atmospheric Pressure:	1008 mbar			
Voltage:	Nominal: 24Vdc, Extreme: Low 10.2 Vdc, High 55.2 Vdc			
Test mode:	Test mode:			
RMC mode	Keep the EUT communication with simulated station in RMC mode			
HSDPA	Keep the EUT communication with simulated station in HSDPA mode			
HSUPA	Keep the EUT communication with simulated station in HSUPA mode			

Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes with power adaptor, earphone and Data cable. Just the worst case position (H mode) shown in report.

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.	
Simulated Station	Anritsu	MT8820C	6201026545	

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
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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

5.8 Test Instruments list

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
EMI Test Software	AUDIX	E3	V	ersion: 6.110919t)
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
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-10-2018	11-09-2019
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
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
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
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2018	10-30-2019
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2018	09-23-2019
Cimeralate d Otation	Dahda 9 Cahusara	CNAVICOO	4.40.402	07-16-2018	07-15-2019
Simulated Station	Rohde & Schwarz	CMW500	140493	07-16-2019	07-15-2020



6. Test results

6.1 Conducted Output Power, ERP and EIRP

Test Requirement:	FCC part 22.913(a)(5), FCC part 24.232(c), FCC part 27.50(d)(4)	
Test Method:	ANSI/TIA-603-D 2010	
Limit:	WCDMA Band V: 7W, WCDMA Band II: 2W, WCDMA Band IV: 1W	
Test setup:	System simulator ATT EUT	
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated station. Transmitter output power was read off in dBm.	
Test Instruments:	Refer to section 5.8 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Conducted Output Power is Refer to FCC ID: ZMONL668AM00, Report No.: FG8O1914-01A. Only retest ERP and EIRP	



Measurement Data:

EUT Mode		Burst Average power (dBm)		
		4132	4183	4233
		826.40 (MHz)	836.60 (MHz)	846.60 (MHz)
	Subtest 1	22.58	22.52	22.49
UMTS 850	Subtest 2	22.62	22.60	22.54
HSDPA	Subtest 3	22.12	22.12	22.04
	Subtest 4	22.13	22.12	22.05
	Subtest 1	22.31	22.24	22.23
UMTS 850	Subtest 2	22.36	22.33	22.29
DC-HSDPA	Subtest 3	21.86	21.85	21.79
	Subtest 4	21.88	21.86	21.80
	Subtest 1	22.12	22.15	21.90
LIMTO 050	Subtest 2	21.53	21.37	21.38
UMTS 850	Subtest 3	21.23	20.92	20.96
HSUPA	Subtest 4	21.57	21.47	21.52
	Subtest 5	22.50	22.20	22.40
UMTS 850 RMC	12.2kbps	23.42	23.53	23.45
Antenna Gain (dBi)		2.3		
Max. ERP (dBm)		23.68		
ERP Limit (dBm)			38.45	

EUT Mode		Burst Average power (dBm)		
		9262	9400	9538
		1852.40 (MHz)	1880.00 (MHz)	1907.60 (MHz)
	Subtest 1	22.87	22.76	22.89
UMTS 1900	Subtest 2	22.88	22.82	22.85
HSDPA	Subtest 3	22.40	22.35	22.47
	Subtest 4	22.38	22.34	22.45
	Subtest 1	22.63	22.52	22.65
UMTS 1900	Subtest 2	22.64	22.57	22.60
DC-HSDPA	Subtest 3	22.16	22.10	22.22
	Subtest 4	22.14	22.08	22.19
	Subtest 1	22.16	22.24	22.18
LINTO 4000	Subtest 2	21.69	21.70	21.66
UMTS 1900 HSUPA	Subtest 3	21.40	21.31	21.59
HOUPA	Subtest 4	21.75	21.66	21.85
	Subtest 5	22.80	22.80	22.90
UMTS 1900 RMC	12.2kbps	24.17	24.02	23.78
Antenna Gain (dBi)		2.3		
Max. EIRP (dBm)		26.47		
EIRP Limit (dBm)			33.00	
	_			

Note: Burst Average power (dBm) is Refer to FCC ID: ZMONL668AM00

EIRP (dBm) = Burst Average power (dBm) + Antenna Gain (dBi).

ERP (dBm) = EIRP (dBm) - 2.15 (dB).



EUT Mode		Burst Average power (dBm)		
		1412	1513	
	1712.40 (MHz)	1732.40 (MHz)	1752.60 (MHz)	
Subtest 1	22.38	22.44	22.41	
Subtest 2	22.39	22.40	22.35	
Subtest 3	21.92	21.93	21.88	
Subtest 4	21.91	21.92	21.88	
Subtest 1	22.12	22.18	22.16	
Subtest 2	22.12	22.12	22.09	
Subtest 3	21.65	21.65	21.62	
Subtest 4	21.65	21.65	21.62	
Subtest 1	21.64	21.84	21.66	
Subtest 2	21.02	21.23	21.22	
Subtest 3	20.93	20.81	20.93	
Subtest 4	21.46	21.37	21.21	
Subtest 5	22.90	22.30	22.30	
12.2kbps	23.74	23.63	23.65	
Antenna Gain (dBi)		2.3		
Max. EIRP (dBm)		26.04		
EIRP Limit (dBm)		30.00		
	Subtest 2 Subtest 3 Subtest 4 Subtest 1 Subtest 2 Subtest 3 Subtest 4 Subtest 1 Subtest 2 Subtest 3 Subtest 2 Subtest 3 Subtest 3 Subtest 4 Subtest 5 12.2kbps	1312 1712.40 (MHz) 1712.40 (MHz)	1312	

EIRP (dBm) = Burst Average power (dBm) + Antenna Gain (dBi).



6.2 Peak-to-Average Power Ratio

Test Requirement:	FCC part 24.232(d), FCC part 27.50(d)(5)
Test Method	ANSI/TIA-603-D 2010
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test setup:	System simulator Spectrum Analyzer Spectrum Analyzer
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Set the CCDF option in spectrum analyzer, RBW ≥ OBW, Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to FCC ID: ZMONL668AM00, Report No.: FG8O1914-01A.



6.3 Occupy Bandwidth

Test Requirement:	FCC part 22.917(b), FCC part 24.238(b), FCC Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Test setup:	System simulator Spectrum Analyzer
Test Procedure:	 The EUT's output RF connector was connected with a short cable to the spectrum analyzer RBW was set to about 1% of emission BW, VBW= 3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to FCC ID: ZMONL668AM00, Report No.: FG8O1914-01A.



6.4 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E & 27L there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

6.5 Out of band emission at antenna terminals

Test Requirement:	FCC part 22.917(a), FCC part 24.238(a), FCC Part 27.53 (h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	-13dBm
Test setup:	System simulator Spectrum Analyzer
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to FCC ID: ZMONL668AM00, Report No.: FG8O1914-01A.



6.6 Field strength of spurious radiation measurement

Test Requirement:	FCC part 22.917(a), FCC part 24.238(a), FCC part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	-13dBm
Test setup:	Below 1GHz Camera Antenna Tower Ground Reference Plane Generator Amplifier Above 1GHz
	AE EUT Hern Antenna Tower Ground Reference Plane Test Receiver Amplier Controller
Test Procedure:	 The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed





Measurement Data (worst case):

	WCD	MA BAND V 12.2k RM	иС	
		Lowest channel		
Fraguera, (MIII-)	Spurious	Emission	mission	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1652.80	Vertical	-55.86		
2479.20	V	-42.95	-13.00	Pass
3305.60	V	-49.87		
1652.80	Horizontal	-58.62		
2479.20	Н	-51.47	-13.00	Pass
3305.60	Н	-49.36		
		Middle channel	·	
Fraguenov (MUz)	Spurious	Emission	Limit (dDm)	Dooult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1673.20	Vertical	-55.38		
2509.80	V	-42.93	-13.00	Pass
3346.40	V	-49.27		
1673.20	Horizontal	-58.46		
2509.80	Н	-51.09	-13.00	Pass
3346.40	Н	-49.53		
		Highest channel		
[Spurious	Emission	Lineit (dDm)	Danill
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1693.20	Vertical	-55.42		
2539.80	V	-42.81	-13.00	Pass
3386.40	V	-49.38		
1693.20	Horizontal	-55.06		
2539.80	Н	-51.13	-13.00	Pass
3386.40	Н	-49.74		
Remark:		1	1	

Remark:

^{1.} The emission levels of below 1 GHz are very lower than the limit and not show in test report.



WCI	DMA Band II 12.2k RN	ЛС	
	Lowest channel		
Spurious	Emission	Limit (dPm)	Result
Polarization	Level (dBm)		Result
Vertical	-49.79	12.00	Door
V	-40.68	-13.00	Pass
Horizontal	-50.88	42.00	Dana
Н	-45.03	-13.00	Pass
	Middle channel		
Spurious	Emission	1: "(15.)	
Polarization	Level (dBm)	Limit (abm)	Result
Vertical	-49.67	-13.00	Pass
V	-40.53		
Horizontal	-50.82	40.00	D
Н	-45.26	-13.00	Pass
	Highest channel		
Spurious	Emission	Limit (dDas)	Desult
Polarization	Level (dBm)	Limit (dBm)	Result
Vertical	-49.37	40.00	D
V	-40.76	-13.00	Pass
Horizontal	-50.37	-13.00	Pass
Н	-45.14		
	Spurious Polarization Vertical V Horizontal H Spurious Polarization Vertical V Horizontal H Spurious Polarization Vertical V Horizontal Vertical V Horizontal	Lowest channel Spurious Emission Polarization Level (dBm) Vertical -49.79 V -40.68 Horizontal -50.88 H -45.03 Middle channel Spurious Emission Polarization Level (dBm) Vertical -49.67 V -40.53 Horizontal -50.82 H -45.26 Highest channel Spurious Emission Polarization Level (dBm) Vertical -50.82 H -45.26 Highest channel Spurious Emission Polarization Level (dBm) Vertical -49.37 V -40.76 Horizontal -50.37	Spurious Emission Limit (dBm)

The emission levels of below 1 GHz are very lower than the limit and not show in test report.



	WCD	MA Band IV 12.2k RI	MC	
		Lowest channel		
Fraguency (MHz)	Spurious	Emission	Limit (dDm)	Dooult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
3424.40	Vertical	-46.34	-13.00	Pass
5136.60	V	-41.29	-13.00	Pass
3424.40	Horizontal	-49.83	-13.00	Pass
5136.60	Н	-45.36	-13.00	Pass
		Middle channel		
Fragues av (MIII-)	Spurious	Emission	1: :// ID)	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
3464.80	Vertical	-46.27	-13.00	Pass
5197.20	V	-41.38		
3464.80	Horizontal	-49.79	42.00	Door
5197.20	Н	-45.48	-13.00	Pass
		Highest channel	·	
Fragues av (MIII-)	Spurious	Emission	Lineit (dDne)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	
3505.20	Vertical	-46.37	42.00	Door
5257.80	V	-41.69	-13.00	Pass
3505.20	Horizontal	-49.86	-13.00	Pass
5257.80	Н	-45.35		
Remark:				

The emission levels of below 1 GHz are very lower than the limit and not show in test report.



6.7 Frequency stability V.S. Temperature measurement

	-	
Test Requirement:	FCC Part 22.355, FCC Part 24.235, FCC Part 27.54, FCC Part 2.1055(a)(1)(b)	
Test Method:	ANSI/TIA-6-3-D 2010	
Limit:	±2.5 ppm for GSM 850 and WCDMA 850 Within authorized band for PCS 1900 and W1900 and W1700	
Test setup:	SS EUT Divider Temperature & Humidity Chamber	
Test procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or 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 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°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 	
Test Instruments:	Refer to section 5.8 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Refer to FCC ID: ZMONL668AM00, Report No.: FG8O1914-01A.	



6.8 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 22.355, FCC Part 24.235, FCC Part 27.54, FCC Part 2.1055(d)(2)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm Within authorized band for PCS 1900 and W1900 and W1700
Test setup:	SS Divider Temperature & Humidity Chamber Power Source
Test procedure:	 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. Reduce the input voltage to specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to FCC ID: ZMONL668AM00, Report No.: FG8O1914-01A.