

Sample Description:

Test Report

FCC ID: XDQ-G3N

Date of issue: Sep. 08, 2016

Model(s):

Applicant:

Shenzhen Xinguodu Technology Co., Ltd.

Address:

17/A, Jinsong Building Tairan Industry And Trading Garden, Shenzhen, China

Mobile POS terminal

Date of Test: Aug. 19, 2016 to Sep. 05, 2016

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification				
Applicant's name:	Shenzhen Xinguodu Technology Co., Ltd.			
Address:	17/A, Jinsong Building Tairan Industry And Trading Garden, Shenzhen, China			
Manufacture's Name:	Shenzhen Xinguodu Technology Co., Ltd.			
Address:	17/A, Jinsong Building Tairan Industry And Trading Garden, Shenzhen, China			
Product name:	Mobile POS terminal			
Trademark:	NEXGO			
Model name:	G3			
Standards:	FCC Part 15.225			
Test Procedure:	ANSI C63.10-2013; ANSI C63.4-2014			

This device described above has been tested by Shenzhen Toby Technology Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:	David	David Chen	
	David Chen	Sep. 08, 2016	
Reviewed by:	(en c	, 140 4	
	Leon Chen	Sep. 08, 2016	
Approved by:	Ju	liu.	
	Ares Liu	Sep. 08, 2016	



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SUMMARY OF TEST RESULT

Item	FCC Part No.	Description of Test	Result
1	15.203	Antenna requirement	Pass
2	15.207	AC power line conducted emission	Pass
3	15.215	20dB bandwidth	Pass
4	15.225	Radiated emission	Pass
5	15.225	Frequency stability	Pass



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1. General description

1.1 Feature of equipment under test (EUT)

Product name:	Mobile POS terminal
Model name:	G3
Operating frequency:	13.56MHz
Modulation type:	subcarrier load modulation
Power supply:	DC 3.7V by battery DC 5V by adapter
Adapter information:	Model: ADS-6MA-06 05050EPCU Input: 100-240V 50/60Hz Max. 0.3A Output: 5V 1A
Antenna designation:	Loop antenna (Antenna Gain: 0dBi)

1.2 EUT operation mode

During testing, the EUT is operated in a keeping TX mode.

1.3 Test conditions

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

- Temperature: 20°C~30°C - Humidity: 30%~70%

- Atmospheric pressure: 98kPa~101kPa

1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
/	/	/	/

1.5 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %



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2. Testing site

Test Site	Shenzhen Toby Technology Co., Ltd.		
Test Site Location	1 A/F., Bldg.6, Yusheng Industrial Zone The National Road No.107 Xixiang Section 467, Shenzhen, Guangdong, China		
FCC Registration No.:	811562		
CNAS Registration No.:	CNAS L5813		



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3. List of test equipment

For AC power line conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
LISN	R&S	ENV216	101313	2016.12.06
LISN	SCHWARZBECK	NNLK 8129	8129245	2016.12.25
Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	2016.12.25
Test Cable	N/A	N/A	C01	2016.12.06
EMI Test Receiver	R&S	ESCI	101160	2016.12.06

For Radiated emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
Log-Bicon Antenna	MESS-ELEKTRO NIK	VULB 9160	3058	2016.12.11
Horn Antenna	Schwarzbeck	BBHA 9120D	631	2016.12.05
Horn Antenna	Schwarzbeck	BBHA 9170	373	2016.12.05
Loop Antenna	Schwarzbeck	FMZB 1519 B	00005	2016.12.05
Test Cable	United Microwave	57793	1m	2016.12.05
Test Cable	United Microwave	A30A30-5006	10M	2016.12.05
Microwave Pre_amplifier	Agilent	8449B	3008A01714	2016.12.05
Pre-Amplifier	Anritsu	MH648A	M09961	2016.12.05
EMI Test Receiver	R&S	ESCI-7	101318	2016.12.05
Spctrum analyzer	Agient	E4470B	MY41441082	2017.06.01

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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4. Test Result

4.1 Conducted emission

4.1.1 Limit

Frequency	Li	imit
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56	56 50 46
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency from 0.15MHz to 0.5MHz.

4.1.2 Test method

- 1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
- 2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 4. LISN is at least 80 cm from nearest part of EUT chassis.
- 5. The resolution bandwidth of EMI test receiver is set at 9kHz.

4.1.3 Test Result



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Tempera	iture:	26°C		F	Relative		51%	
Pressure: Test voltage:		101kPa Polarization: L ge: AC 120V/60Hz Test mode: Tra		L	-			
				-Iz	Test mode:		Transmitting	
100.0 dBu	ν.							
90								
30								
80								
70								
-						FCCF	Part15 ClassB AC Conduction	on(QP)
60								
50						FCCPa	rt15 ClassB AC Conduction	(AVG)
40		1/ 1	, ×					
40 000	mmy	~V_\0\^\\	WATER AND THE STREET	hallenthy republic	Mary Mary Mary Mary Mary Mary Mary Mary	htee of the adjust anyth	orphicalism / Will propriet with the second	
30	~~~~~.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~11h		The second of th		Marie Contraction of the Contrac	peak
20		~~,r	,	- Marian	Acres 1 Parks 200 March 400 Lane	***************************************	**	AVG
20								
10								
0.0								
0.150		0.5			(MHz)	5	j	30.000
		Reading	Correct	Measure-				
No. Mk.		Level	Factor	ment	Limit Over			
	MHz	dBuV 10.97	dB	dBuV	dBuV dB	Detector	Comment	
1	0.4854							
2 *	0.4954		30.02	40.99	56.25 -15.26			
2 *	0.4854	3.35	30.02	33.37	46.25 -12.88	AVG		
3	0.6527	3.35 0.57	30.02 30.02	33.37 30.59	46.25 -12.88 56.00 -25.41	AVG QP		
	0.6527 0.6527	3.35 0.57 -3.44	30.02 30.02 30.02	33.37 30.59 26.58	46.25 -12.88 56.00 -25.41 46.00 -19.42	AVG QP AVG		
3	0.6527	3.35 0.57	30.02 30.02	33.37 30.59	46.25 -12.88 56.00 -25.41	AVG QP AVG QP		
3 4 5	0.6527 0.6527 1.2218 1.2218	3.35 0.57 -3.44 1.85 -3.12	30.02 30.02 30.02 30.02 30.02	33.37 30.59 26.58 31.87 26.90	46.25 -12.88 56.00 -25.41 46.00 -19.42 56.00 -24.13 46.00 -19.10	AVG QP AVG QP AVG		
3 4 5 6	0.6527 0.6527 1.2218	3.35 0.57 -3.44 1.85	30.02 30.02 30.02 30.02	33.37 30.59 26.58 31.87	46.25 -12.88 56.00 -25.41 46.00 -19.42 56.00 -24.13	AVG QP AVG QP AVG		
3 4 5 6 7	0.6527 0.6527 1.2218 1.2218 1.5192	3.35 0.57 -3.44 1.85 -3.12 2.09	30.02 30.02 30.02 30.02 30.02 30.02	33.37 30.59 26.58 31.87 26.90 32.11	46.25 -12.88 56.00 -25.41 46.00 -19.42 56.00 -24.13 46.00 -19.10 56.00 -23.89	AVG QP AVG QP AVG AVG QP AVG		
3 4 5 6 7 8	0.6527 0.6527 1.2218 1.2218 1.5192 1.5192	3.35 0.57 -3.44 1.85 -3.12 2.09 -3.00	30.02 30.02 30.02 30.02 30.02 30.02 30.02	33.37 30.59 26.58 31.87 26.90 32.11 27.02	46.25 -12.88 56.00 -25.41 46.00 -19.42 56.00 -24.13 46.00 -19.10 56.00 -23.89 46.00 -18.98	AVG QP AVG QP AVG QP AVG QP AVG		
3 4 5 6 7 8	0.6527 0.6527 1.2218 1.2218 1.5192 1.5192 1.9895	3.35 0.57 -3.44 1.85 -3.12 2.09 -3.00 0.00	30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02	33.37 30.59 26.58 31.87 26.90 32.11 27.02 30.02	46.25 -12.88 56.00 -25.41 46.00 -19.42 56.00 -24.13 46.00 -19.10 56.00 -23.89 46.00 -18.98 56.00 -25.98	AVG QP AVG QP AVG QP AVG AVG		



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Tem	pera	iture:	26°C	26°C		Relative		51%			1%			
Pressure:		101kPa		ı	Polarization:		N							
Test	Test voltage:		AC 1	20V/60	Hz -	Test m	node:		Tı	rans	smit	ting		
100.0) dBu	W												
90														
80														
70														
60								FCCF	art1!	5 Clas	sB AC	Conduction(QP)		
50			J					FCCPa	rt15	Classi	B AC	Conduction(AVG)		
	1		A. A.M	hylahhamanan	The supplies of the second	w. X	(Maybeardy Arthy	armi	. A. oto				.	
40	V V	V-ANDON	Many L.	. I Y William	Woods III. H. h.	Amadhay	valents on a Marail	olico dipendente de la constitución	SAP VARIAN	the stand	"Waly	ing march of the conference of the state of the conference of	Maryagery	
30	W	mhoma	My My war.	graftyr-yr-apraphylishi	person appropriately beautiful	Market Market	pu _{nd} aga _{gan} aria, april	V ^{ar} antaparagangan	shipson.	A E CARRELLAND	manage	and the second second second second second second	~	peak
20														AVG
10														
10														
0.0	150		0.5			(MHz)			5				30.000	0
0.0	150		0.5			(MHz)			5				30.000	0
0.0	1 50		0.5 Reading Level	Correct	Measure- ment	(MHz)	Over	!	5				30.000	0
0.0			Reading				Over dB	Detector		Comm	ent		30.000	0
0.0 0.1 No	o. Mk.	MHz 0.4709	Reading Level dBuV 13.39	Factor dB 30.02	ment dBuV 43.41	Limit dBuV 56.50	dB -13.09	Detector QP		Comm	nent		30.000	0
0.0 0.1	o. Mk.	0.4709	Reading Level dBuV 13.39 0.69	dB 30.02 30.02	ment dBuV 43.41 30.71	Limit dBuV 56.50 46.50	dB -13.09 -15.79	Detector QP AVG		Comm	nent		30.000	0
0.0 0.1 No). Mk. 1 * 2	MHz 0.4709 0.4709 0.9232	Reading Level dBuV 13.39 0.69 5.01	Factor dB 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03	Limit dBuV 56.50 46.50 56.00	dB -13.09 -15.79 -20.97	Detector QP AVG QP		Comm	eent		30.000	0
0.0 0.1 No	o. Mk.	MHz 0.4709 0.4709 0.9232 0.9232	Reading Level dBuV 13.39 0.69 5.01 -2.44	Factor dB 30.02 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03 27.58	Limit dBuV 56.50 46.50 56.00 46.00	dB -13.09 -15.79 -20.97 -18.42	Detector QP AVG QP AVG		Comm	eent		30.000	0
0.0 0.1 No	o. Mk.	MHz 0.4709 0.4709 0.9232	Reading Level dBuV 13.39 0.69 5.01	Factor dB 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03	Limit dBuV 56.50 46.50 56.00 46.00	dB -13.09 -15.79 -20.97	Detector QP AVG QP		Comm	eent		30.000	0
0.0 0.1 No. 1 2 3 4 5 6	o. Mk.	MHz 0.4709 0.4709 0.9232 0.9232 1.4795	Reading Level dBuV 13.39 0.69 5.01 -2.44 5.61	Factor dB 30.02 30.02 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03 27.58 35.63	Limit dBuV 56.50 46.50 56.00 46.00 46.00	dB -13.09 -15.79 -20.97 -18.42 -20.37	Detector QP AVG QP AVG		Comm	ment		30.000	
0.0 0.1 No. 1 2 3 4 5 6 6	2 3 4 5 6 7	MHz 0.4709 0.4709 0.9232 0.9232 1.4795 1.4795	Reading Level dBuV 13.39 0.69 5.01 -2.44 5.61 -2.01	Factor dB 30.02 30.02 30.02 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03 27.58 35.63 28.01	Limit dBuV 56.50 46.50 56.00 46.00 56.00 56.00	dB -13.09 -15.79 -20.97 -18.42 -20.37 -17.99	Detector QP AVG QP AVG QP AVG		Comm	eent		30.000	
0.0 0.1 No. 1 2 3 3 4 5 6 7 7	5. Mk. 1 * 2 3 4 5 7	MHz 0.4709 0.4709 0.9232 0.9232 1.4795 1.4795 1.8419 1.8419 2.2131	Reading Level dBuV 13.39 0.69 5.01 -2.44 5.61 -2.01 4.97 -2.29 5.40	Factor dB 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03 27.58 35.63 28.01 34.99 27.73 35.42	Limit dBuV 56.50 46.50 56.00 46.00 56.00 46.00 56.00	dB -13.09 -15.79 -20.97 -18.42 -20.37 -17.99 -21.01 -18.27 -20.58	Detector QP AVG QP AVG QP AVG		Comm	eent		30.000	
0.0 0.1 No. 1 2 2 3 3 4 4 5 6 6 7 7 8 8 9 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	11 * 22 33 44 45 5 65 67 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	MHz 0.4709 0.4709 0.9232 0.9232 1.4795 1.4795 1.8419 1.8419 2.2131	Reading Level dBuV 13.39 0.69 5.01 -2.44 5.61 -2.01 4.97 -2.29 5.40 -2.93	Factor dB 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03 27.58 35.63 28.01 34.99 27.73 35.42 27.09	Limit dBuV 56.50 46.50 56.00 46.00 56.00 46.00 56.00 46.00 46.00 56.00 46.00	dB -13.09 -15.79 -20.97 -18.42 -20.37 -17.99 -21.01 -18.27 -20.58 -18.91	Detector QP AVG QP AVG QP AVG QP AVG QP AVG		Comm	eent		30.000	
0.0 0.1 No. 1 2 3 3 4 5 6 6 7 8 8 9 9	3. Mk. 11 * 22 33 44 55 63 77 63 69 99 99 91 1	MHz 0.4709 0.4709 0.9232 0.9232 1.4795 1.4795 1.8419 1.8419 2.2131	Reading Level dBuV 13.39 0.69 5.01 -2.44 5.61 -2.01 4.97 -2.29 5.40	Factor dB 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02 30.02	ment dBuV 43.41 30.71 35.03 27.58 35.63 28.01 34.99 27.73 35.42	Limit dBuV 56.50 46.50 56.00 46.00 56.00 46.00 56.00 46.00 56.00 56.00 46.00 56.00	dB -13.09 -15.79 -20.97 -18.42 -20.37 -17.99 -21.01 -18.27 -20.58	Detector QP AVG QP AVG QP AVG QP AVG QP AVG		Comm	nent		30.000	



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4.2 Antenna requirement

4.2.1 Requirement defined in 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.

4.2.2 EUT antenna description

The radio antenna of EUT is an internal permanently attached antenna, the maximum gain is 0dBi. So the antenna meets the requirement of this part.



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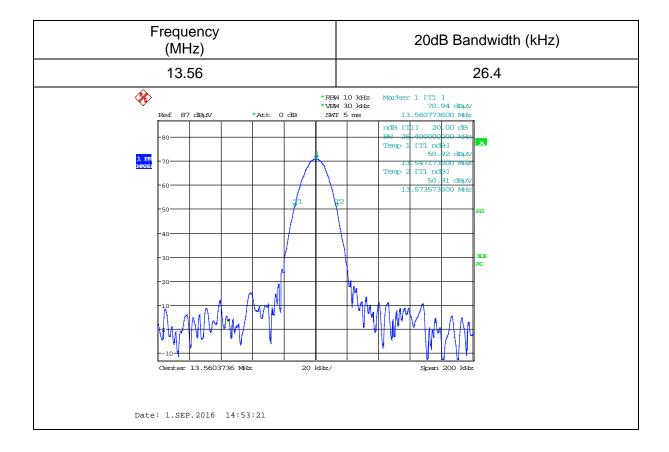
4.3 20dB emission bandwidth

4.3.1 Test method

Set Spectrum Analyzer centre Frequency= Fundamental Frequency, RBW=10 kHz, VBW= 30 kHz, Span= 200 kHz

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

4.3.2 Test result





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4.4 Radiated emission

4.4.1 Limit

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209, the field strength of emissions from intentional radiators shall not exceed the following:

Frequency (MHz)	Field strength µV/m	Field strength dBµV/m	Detector	Measurement distance
1.705-30	30	29.54	QP	
30-88	100	40	QP	
88-216	150	43.5	QP	
216-960	200	46	QP	3m
960-1000	500	46	QP	
Above 1000	500	54	AV	
Above 1000	5000	74	PK	

Note: the measurement distance is 30m for 1.705MHz to 30MHz, 3m for above 30MHz.

4.4.2 Test method

The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground; the table was rotated 360 degrees to determine the position of the highest radiation.

For test frequency up to 30MHz, a loop antenna is used; the centre of the loop antenna is 1m above the ground.

For test frequency above 30MHz, he Test antenna shall vary between 1m and 4m, both Horizontal and Vertical polarizations are set to make measurement.

For the actual test configuration, please see the test setup photos.

4.4.3 Test Result

Remark:

1, Performed pretest to three orthogonal axes (x, y, z axis), the worst case emissions(Y axis) were reported.

2, other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).



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Radiated emission (Blew 30MHz)

Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H/V	dBµV/m	dBµV/m		
13.56	/	71.3	124	Peak	
13.56	/	71	124	QP	
13.553	/	61.7	69.54	QP	
13.567	/	65.8	69.54	QP	
13.41	/	46.2	69.54	QP	Pass
13.71	/	46.8	69.54	QP	
13.11	/	38.6	69.54	QP	
14.01	/	29.8	69.54	QP	
27.12	/	42.5	69.54	QP	



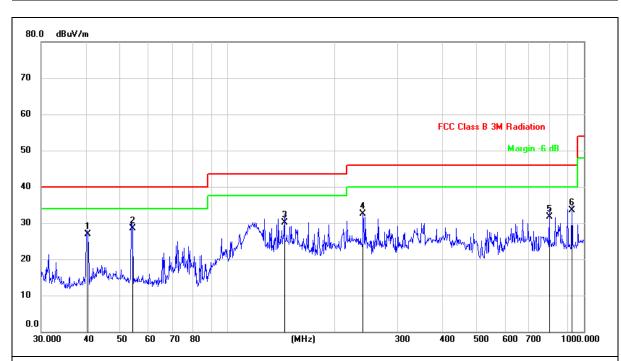
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Radiated emission	(30MHz~1GHz)
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Temperature:	23 ℃	Relative Humidity:	59%
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	Full Charged battery	Test mode:	Mode 1



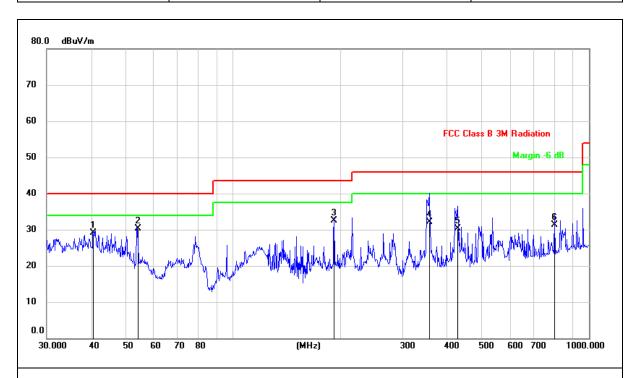
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dBuV/m	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		40.6800	39.01	-12.11	26.90	40.00	-13.10	QP			
2	*	54.2400	40.58	-12.08	28.50	40.00	-11.50	QP			
3		144.3348	47.52	-17.42	30.10	43.50	-13.40	QP			
4		239.9874	45.26	-12.76	32.50	46.00	-13.50	QP			
5		798.9796	35.38	-3.58	31.80	46.00	-14.20	QP			
6		925.7563	35.82	-2.22	33.60	46.00	-12.40	QP			



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Temperature:	23 ℃	Relative Humidity:	59%
Pressure:	101kPa	Polarization:	Vertical
Test voltage:	Full Charged battery	Test mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dBuV/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		40.6800	41.21	-12.11	29.10	40.00	-10.90	QP			
2	*	54.2400	42.48	-12.08	30.40	40.00	-9.60	QP			
3		192.4182	47.05	-14.55	32.50	43.50	-11.00	QP			
4		356.6757	42.25	-10.15	32.10	46.00	-13.90	QP			
5		428.0192	38.99	-8.69	30.30	46.00	-15.70	QP			
6		798.9796	34.88	-3.58	31.30	46.00	-14.70	QP			



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4.5 Frequency stability

4.5.1 Limit

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

4.5.2 Test Result

Voltage (VDC)	Temp. (°C)	Frequency (MHz)	Deviation (%)	Limit (%)
3.7	-20	13.560376	0.003%	
3.7	-10	13.560384	0.003%	
3.7	0	13.560328	0.002%	
3.7	10	13.560334	0.002%	
3.7	20	13.56039	0.003%	+/-0.01%
3.7	30	13.560377	0.003%	
3.7	40	13.560332	0.002%	
3.7	50	13.560351	0.003%	

Remark: New battery is used during test

----END OF REPORT----