



RADIO TEST REPORT

(FCC Part 15 Subpart C)

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong China

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.
Product:	Integrated Smart Terminal
Brand Name:	PAX
Model Name:	E700
FCC ID:	V5PE700GM2
Date of tests:	Jun. 24, 2022 ~ Jul. 18, 2022

The tests have been carried out according to the requirements of the following standard:

🛛 Part 15 Subpart C §15. 225

RSS-Gen Issue 5 Amendment 1 (March 2019)

ANSI C63.10-2013

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department

Approved by Luke Lu Manager / Mobile Department

Simon Wang

Date: Jul. 18, 2022

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Date: Jul. 18, 2022

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BV 7Layers Communications Technology (Shenzhen) Co., Ltd

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Report Revise Record

ISSUE NO.	NO. REASON FOR CHANGE	
W7L-P22060025RF07	Original release	Jul. 18, 2022

Report Version 1



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FCC Rule	IC Rule	Description	Limit	Result	Remark
-	RSS-Gen 6.7	99% Bandwidth	-	Pass	-
15.225(a)(b)(c)	RSS-210 Annex B.6	Field Strength of Fundamental Emissions	15.225(a)(b)(c) RSS-210 Annex B.6	Pass	-
15.215	-	20dB Spectrum Bandwidth	15.215	Pass	-
15.225(d) 15.209	RSS-210 Annex B.6	Radiated Emission	15.225(d) & 15.209 RSS-210 Annex B.6	Pass	See note 1
15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	See note 1
15.225(e)	Annex B.6	Frequency Stability	< ±100 ppm	Pass	-
15.203	RSS-Gen 6.8	Antenna Requirement	N/A	Pass	-

Summary of Test RESULT

NOTE: 1. Due to the change of BT WIFI module, the new Sample(a new FCC ID product) retested the RSE and ac conducted emissions, other datas copied from W7L-P21090005RF07 (FCC ID: V5PE700GM, model: E700).

Detailed differences and validation are listed as below

Quoted	Quoted			Difference Spot-Check Rep		Poplago data
FCC ID	Report Number	Difference	Эрог-Спеск	Replace data		
V5PE700GM	W7L-P21090005RF07	BT, WIFI	RSE	RF		
		module		KF		

Report Version 1



1. General Description

1.1 Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

1.2 Manufacturer

PAX Computer Technology (Shenzhen) Co., Ltd.

4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

1.3 General Description Of EUT

Items	Description		
Tx/Rx Frequency Range	13.553 ~ 13.567MHz		
Channel Number	1		
20dBW	2.864 kHz		
99%OBW	2.436 kHz		
Antenna Type	Loop Antenna		
Type of Modulation	ASK		

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.225
- ANSI C63.10-2013
- RSS-210 Issue 10
- RSS-Gen Issue 5



2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items					
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions				
20dB Spectrum Bandwidth	Frequency Stability				
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz				

Note:

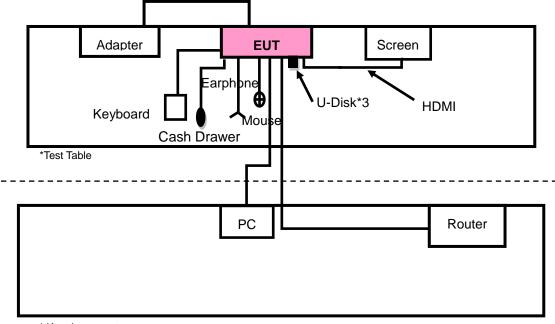
- 1. The EUT was programmed to be in continuously transmitting mode.
- The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, work in modes and data rates. Selected for the final test as listed below.

Frequency	Work in Modes	Туре	Data Rate (Kbps)			
13.56 MHz	Card Emulation Reader/Writer Peer-to-Peer	□ A □ B □ F □ V	□ 106 □ 212 □ 424 □ 848			
Remark: The mark [™] means is chosen for testing; The mark [™] means is not chosen for testing.						



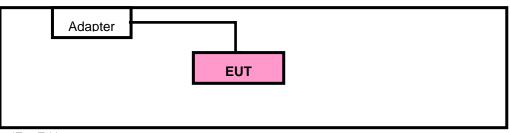
2.2 Test Configurations

<AC Conducted Emissions>



* Kept in a remote area

< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



*Test Table

NO.	PRODUCT	BRAND	MODEL NO. SERIAL NO.		FCC ID
1	Laptop	Lenovo	Thnikpad L440	R90FTFKP	N/A
2	Printer	HP	Hp LaserJet 1300	CNSJF75989	N/A
3	SD	San Disk	Ultra	N/A	N/A
4	Earphone	Nokia	WH-108	RTF	N/A
5	Wireless AP	ABOCOM	WR224GR	060500749P	N/A
6	U-Disk	HP	N/A	N/A	N/A
7	Mouse	Lenovo	N/A	N/A	N/A
8	Keyboard	PAX	N/A	N/A	N/A
9	Screen	Dell	N/A	N/A	N/A

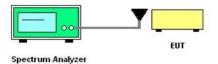
2.3 Support Equipment

2.4 Test Setup

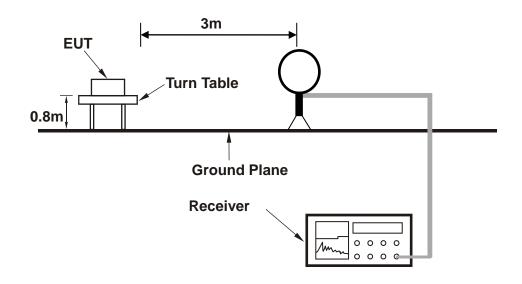
The EUT is continuously communicating during the tests.

EUT was set in the Hidden menu mode to enable NFC communications.

Setup diagram for Conducted Test



Setup diagram for Radiation(9KHz~30MHz) Test

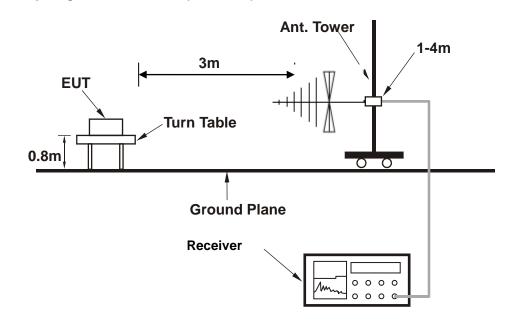


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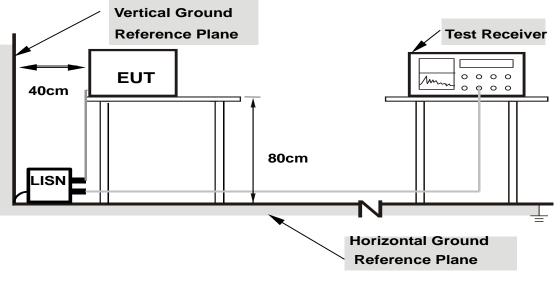
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Setup diagram for AC Conducted Emission Test



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5 + 10 = 15 (dB)



3. Test Result

3.1 20dB and 99% Bandwidth Measurement

3.1.1 Limit of 20dB and 99% Bandwidth

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

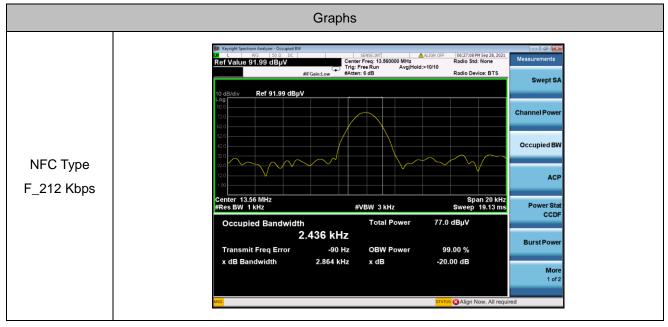
3.1.2 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.
- 4. Measured the 99% OBW.

3.1.3 Test Result of 20dB and 99% Bandwidth

Test Mode :	NFC		Temperature :		23 ℃	
Test Engineer :	Jace hu	Relative Humidity : 50		50%		
Mode	Frequency	20dB Ban	dwidth [kHz]	99	% OBW[kHz]	Verdict
NFC Type F_212 Kbps	13.56MHz 2.		.864		2.436	PASS

20dB Bandwidth & 99% Bandwidth Plot



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3.2 Frequency Stability Measurement

3.2.1 Limit of Frequency Stability

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) 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.

3.2.2 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ±100ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.2.3 Test Result of Frequency Stability

The NFC Type F_212 Kbps is the worst case, Only report worst mode data



NFC Type F_212 Kbps

Voltage (Vdc)	Temperature (℃)	Measurement Frequency (MHz)	Frequency Tolerance(ppm)	Limit(ppm)	Result
22.8	20	13.55989	-8.11		Pass
25.2	20	13.55992	-5.90		Pass
	-20	13.55991	-6.64		Pass
	-10	13.5599	-7.37	1400	Pass
	0	13.55993	-5.16		Pass
24	10	13.55992	-5.90	±100	Pass
24	20 30 40	13.55992	-5.90		Pass
		13.55993	-5.16		Pass
		13.5599	-7.37		Pass
	50	13.55994	-4.42		Pass



3.3 Field Strength of Fundamental Emissions and Mask Measurement

3.3.1 Limit of Field Strength of Fundamental Emissions and Mask

Rules and specifications	FCC CFR 47 Part 15 section 15.225					
-	IC RSS-210 B.6					
Description	Compliance with th	e spectrum mask is t	ested with RBW set t	o 9kHz.		
Frag. of Emission (MHz)	Field Strength	Field Strength	Field Strength	Field Strength		
Freq. of Emission (MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m		
1.705~13.110	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	84.0	103.08	124.0		
13.567~13.710	334	50.5	69.58	90.5		
13.710~14.010	106	40.5	59.58	80.5		
14.010~30.000	30	29.5	48.58	69.5		

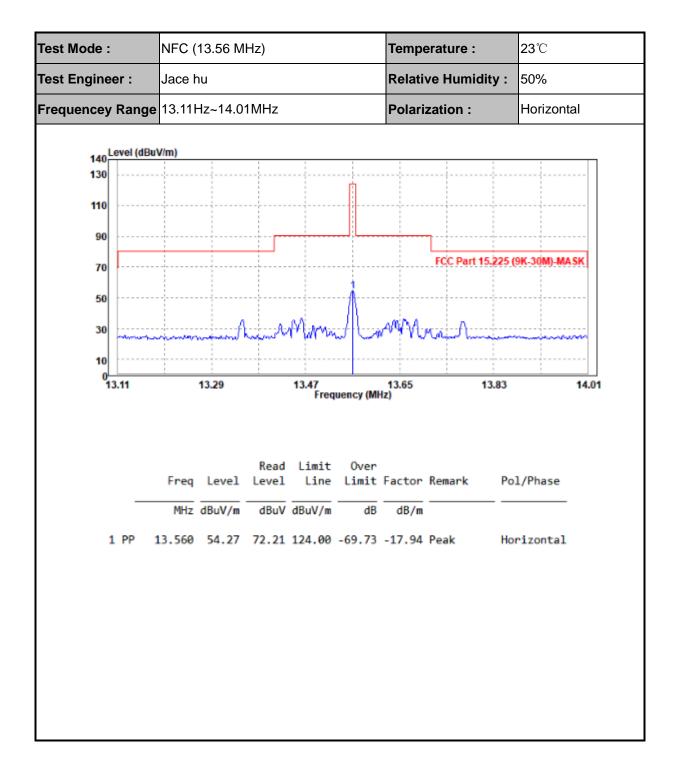
3.3.2 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

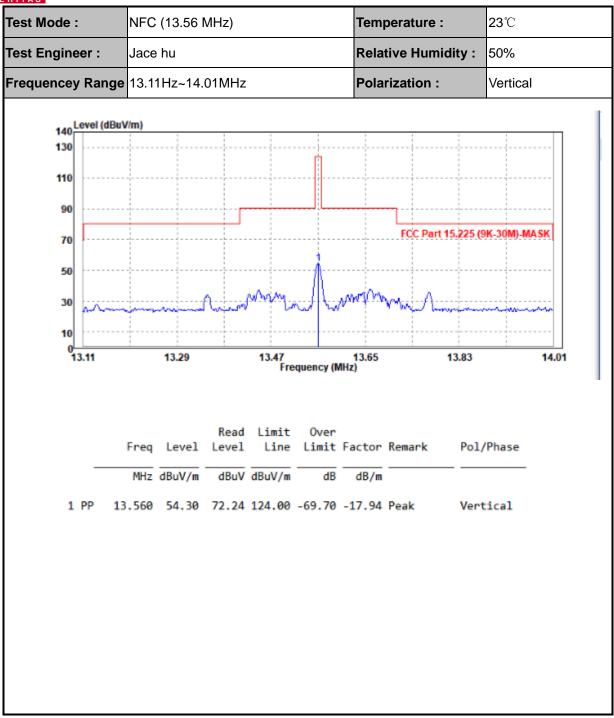
Note: Emission level (dB μ V/m) = 20 log Emission level (μ V/m).



3.3.3 Test Results of Field Strength of Fundamental Emissions and Mask (1.705 MHz ~ 30 MHz)









3.4 Radiated Emissions Measurement

3.4.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies	Field Strength	Measurement Distance
(MHz)	(μV/m)	(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

3.4.2 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

3.4.3 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the



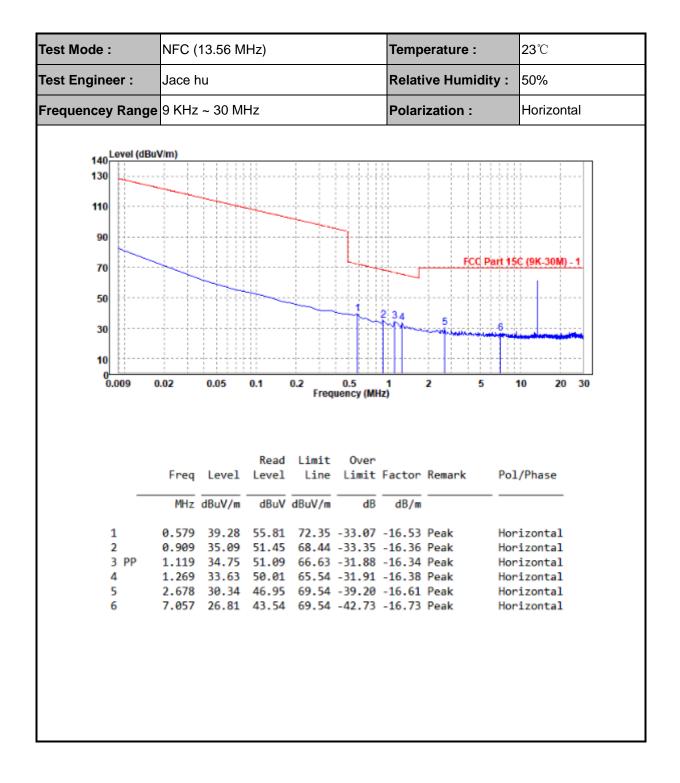
turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

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3.4.4 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)



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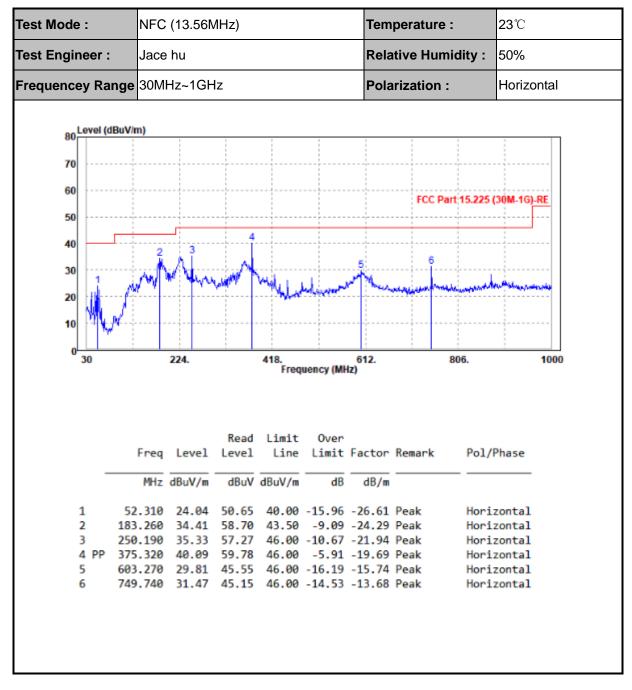
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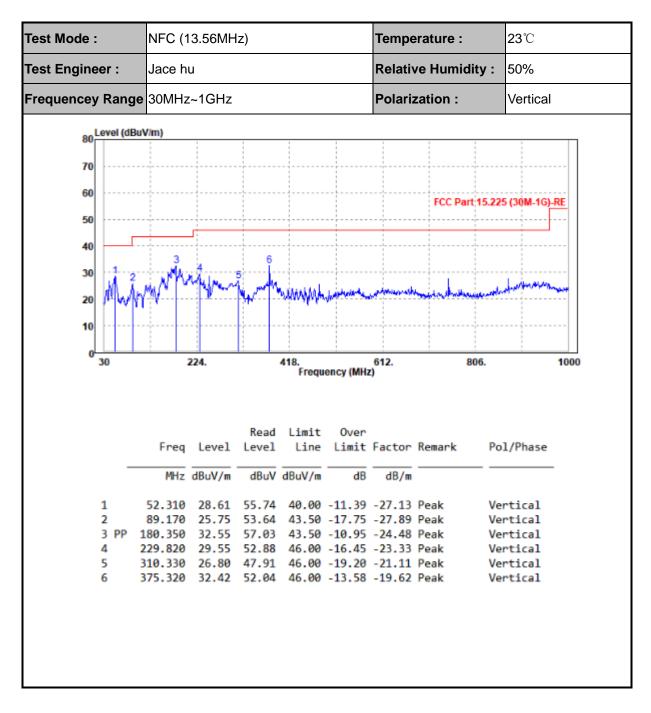
			Hz)			Tempe	erature :		23 ℃	
st Engineer :	Jace h	Jace hu		Relati	Relative Humidity :		50%			
equencey Ra	nge 9 KHz	9 KHz ~ 30 MHz		Polari	zation :		Vertica	al		
140 Level	(dBuV/m)							: : : :	:	
130								***		
110										
					_					
90										
70					- L		FCC	Part 15	¢ (9K-30N	<u>() - 1</u>
50										
50					-1	23				
						M	4 5	6		
30							and a second second	Contraction of the local division of the loc	Contraction of the local division of the loc	a straig
30 10 0.009	0.02	0.05	0.1 0).2 Frequ	0.5 ency (MH	1 ; z)	2 5		10 2	0 30
10	0.02	0.05	0.1 0 Read	Frequ	iency (MH		2 5	1	10 2	0 30
10		0.05	Read	Frequ Limit	over	z)	2 5 Remark		10 2 1/Phase	
10	Freq		Read Level	Frequ Limit	over	Factor				
10 0.009	Freq MHz 0.579	Level dBuV/m 39.78	Read Level dBuV 56.31	Frequ Limit Line dBuV/m 72.35	Over Limit dB -32.57	Factor dB/m -16.53	Remark Peak	Po — — Ve	1/Phase	
10 0.009	Freq 	Level dBuV/m 39.78 35.18	Read Level dBuV 56.31 51.52	Frequ Limit Line dBuV/m 72.35 66.63	Over Limit -32.57 -31.45	Factor 	Remark Peak Peak	Po. — — Ve	1/Phase rtical	
10 0.009	Freq MHz 0.579 P 1.119 1.269	Level dBuV/m 39.78 35.18 34.02	Read Level dBuV 56.31 51.52 50.40	Frequ Limit Line dBuV/m 72.35 66.63 65.54	Over Limit -32.57 -31.45 -31.52	Factor dB/m -16.53 -16.34 -16.38	Remark Peak Peak Peak	Po Ve Ve Ve	1/Phase rtical rtical rtical	
10 0.009	Freq 	Level dBuV/m 39.78 35.18 34.02 28.23	Read Level dBuV 56.31 51.52 50.40 44.85	Frequ Limit Line dBuV/m 72.35 66.63 65.54 69.54	Over Limit -32.57 -31.45 -31.52 -41.31	Factor 	Remark Peak Peak Peak Peak Peak	Po Ve Ve Ve	1/Phase rtical	













3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission	Conducted Limit (dBµV)				
(MHz)	Quasi-Peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

*Decreases with the logarithm of the frequency.

3.5.2 Test Procedures

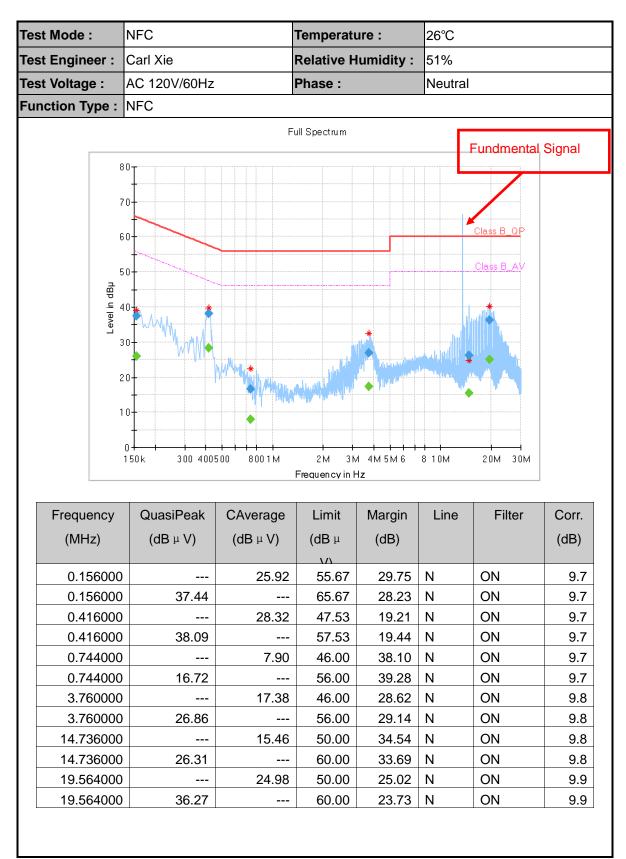
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8.Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



Test Mode :	NFC		Temperatu	perature :		26°C		
Test Engineer :	eer : Carl Xie		Relative H	lumidity :	: 51%			
Test Voltage :	120Vac / 60Hz		Phase :		Line			
Function Type :	NFC							
		Fu	ull Spectrum			undmental S	lignal	
	80+						nynai	
Level in dBµ						Class B_QP		
	0 150k 300 400!		2M 3N Frequency in H	1 4M 5M 6 1z	8 10M	20M 30M		
Frequency					8 10M	20M 30M	Corr.	
	0 0 150k 300 400!		Frequency in H	lz			Corr. (dB)	
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Frequency in F Limit (dBµV)	Hz Margin (dB)	Line	Filter	(dB)	
Frequency (MHz) 0.150000	QuasiPeak (dBµV)	CAverage	Frequency in F Limit (dBµV) 56.00	Margin (dB) 28.45	Line L1	Filter	(dB) 9.7	
Frequency (MHz)	QuasiPeak (dBµV) 0 0 40.50	CAverage (dBµV)	Frequency in F Limit (dBµV)	Hz Margin (dB)	Line L1	Filter	(dB)	
Frequency (MHz) 0.150000 0.150000	QuasiPeak (dBµV) 0 0 40.50 0	CAverage (dBµV) 27.55	Frequency in F Limit (dBµV) 56.00 66.00	Margin (dB) 28.45 25.50	Line L1 L1	Filter ON ON	(dB) 9.7 9.7	
Frequency (MHz) 0.150000 0.150000 0.416000	QuasiPeak (dBµV))) 40.50)) 39.17	CAverage (dBµV) 27.55 30.61	Frequency in F Limit (dBµV) 56.00 66.00 47.53	Margin (dB) 28.45 25.50 16.92	Line L1 L1 L1	Filter ON ON ON	(dB) 9.7 9.7 9.7	
Frequency (MHz) 0.150000 0.150000 0.416000	QuasiPeak (dBµV) 0 0 40.50 0 0 39.17 0	CAverage (dBµV) 27.55 30.61 	Frequency in F Limit (dBµV) 56.00 66.00 47.53 57.53	Margin (dB) 28.45 25.50 16.92 18.36	Line L1 L1 L1 L1 L1	Filter ON ON ON ON	(dB) 9.7 9.7 9.7 9.7 9.7	
Frequency (MHz) 0.150000 0.150000 0.416000 0.416000 0.652000	QuasiPeak (dBµV) 0 0 40.50 0 0 39.17 0 0 21.33	CAverage (dBµV) 27.55 30.61 15.07	Frequency in F Limit (dBµV) 56.00 66.00 47.53 57.53 46.00	Margin (dB) 28.45 25.50 16.92 18.36 30.93	Line L1 L1 L1 L1 L1 L1 L1	Filter ON ON ON ON ON ON	(dB) 9.7 9.7 9.7 9.7 9.7 9.7	
Frequency (MHz) 0.150000 0.416000 0.416000 0.652000	QuasiPeak (dBµV) 0 0 40.50 0 0 39.17 0 0 21.33 0	CAverage (dBµV) 27.55 30.61 15.07	Frequency in F Limit (dBµV) 56.00 66.00 47.53 57.53 46.00 56.00	Margin (dB) 28.45 25.50 16.92 18.36 30.93 34.67	Line L1 L1 L1 L1 L1 L1 L1 L1	Filter ON ON ON ON ON ON ON	(dB) 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	
Frequency (MHz) 0.150000 0.150000 0.416000 0.652000 0.652000 2.980000	QuasiPeak (dBµV) 0 0 40.50 0 0 39.17 0 0 21.33 0 0 20.74	CAverage (dBµV) 27.55 30.61 15.07 12.05	Frequency in F Limit (dBµV) 56.00 66.00 47.53 57.53 46.00 56.00 46.00	Margin (dB) 28.45 25.50 16.92 18.36 30.93 34.67 33.95	Line L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter ON ON ON ON ON ON ON ON	(dB) 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	
Frequency (MHz) 0.150000 0.416000 0.652000 0.652000 2.980000 2.980000	QuasiPeak (dBµV) 0 0 40.50 0 0 39.17 0 0 21.33 0 0 20.74 0	CAverage (dBµV) 27.55 30.61 15.07 12.05 	Frequency in F Limit (dBµV) 56.00 66.00 47.53 57.53 46.00 56.00 46.00 56.00	Margin (dB) 28.45 25.50 16.92 18.36 30.93 34.67 33.95 35.26	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter ON ON ON ON ON ON ON ON ON	(dB) 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	
Frequency (MHz) 0.150000 0.150000 0.416000 0.652000 0.652000 2.980000 2.980000 3.668000	QuasiPeak (dBµV) 0 0 40.50 0 0 39.17 0 0 21.33 0 0 20.74 0 0 26.06	CAverage (dBµV) 27.55 30.61 15.07 12.05 16.19	Frequency in H Limit (dBµV) 56.00 66.00 47.53 57.53 46.00 56.00 46.00 56.00 46.00	Margin (dB) 28.45 25.50 16.92 18.36 30.93 34.67 33.95 35.26 29.81	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter ON ON ON ON ON ON ON ON ON ON ON	(dB) 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	

3.5.3 Test Result of AC Conducted Emission









3.6 Antenna Requirements

3.6.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

3.6.2 Antenna Connected Construction

An Loop Antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi.



4 List of Measuring Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 04,22	Mar. 03,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 02,22	Jun. 01,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 21,22	Apr. 20,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 01,22	May. 31,23
Loop Antenna	SCHWARZBEC K	FMZB1519B	00173	Sep. 04,21	Sep. 05,22

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Chamber.

3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



5 Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.42dB
	30MHz ~ 1GMHz	2.50dB
Radiated emission	1GHz ~ 18GHz	3.51dB
	18GHz ~ 40GHz	3.96dB

MEASUREMENT	UNCERTAINTY
Occupied Channel Bandwidth	±196.4Hz
RF output power, conducted	±2.31dB
Power density, conducted	±2.31dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.