





RADIO TEST REPORT

(FCC Part 15 Subpart C)

Applicant:	Shenzhen Dinggu Technology Co.,Ltd
Address:	Room 505, Building A, Industrial Second Road No 8, Dakan Community, Xili,Nanshan
	District, Shenzhen, China

Manufacturer:	Shenzhen Dinggu Technology Co.,Ltd
Address:	Room 505, Building A, Industrial Second Road No 8, Dakan Community, Xili,Nanshan District, Shenzhen, China
Product:	Access Reader
Brand Name:	Ding Gu
Model Name:	ASR2100Z-B
Serial Model Name:	DER3-BT(OSDP)
FCC ID:	2BCP4-ASR2100Z-B
Date of tests:	Sep. 05, 2023 ~ Sep. 15, 2023

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 2 (February 2021)
- **ANSI C63.10-2013**

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

Prepared by Simon Wang	Approved by Luke Lu		
Engineer / Mobile Department	Manager / Mobile Department		
Simon Wang	luke lu		
Date: Sep. 15, 2023	Date: Sep. 15, 2023		

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/nome/about-us/our-business/cps/about-us/erms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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REPORT REVISE RECORD

ISSUE NO. REASON FOR CHANGE		DATE ISSUED
W7L-P23090001RF02	Original release	Sep. 15, 2023



SUMMARY OF TEST RESULT

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)	Note	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	-



1 GENERAL DESCRIPTION

1.1 GENERAL DESCRIPTION OF EUT

Items	Description
Tx/Rx Frequency Range	13.553MHz ~ 13.567MHz
Channel Number	1
20dBW	2.692 kHz
99%OBW	2.312 kHz
Antenna Type	PCB 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.

1.2 MODIFICATION OF EUT

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

1.3 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

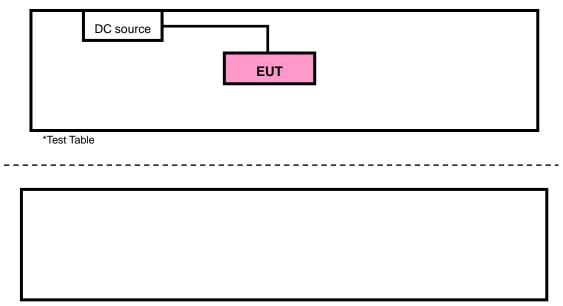
Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

	Test Items					
Α	C Power Line Conducted Emissions	Field Strength of Fundamental Emissions				
20	0dB Spectrum Bandwidth	Frequency Stability				
R	adiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz				
No	te:					
1.	The EUT was programmed to be in continuous	ly transmitting mode.				
2.	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 th	e EUT.				
3.	3. Pre-Scan has been conducted to determine the worst-case mode from all possible combination					
	between available modulations, work in modes	s 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

< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



^{*} Kept in a remote area

2.3 SUPPORT EQUIPMENT

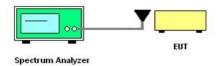
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

2.4 TEST SETUP

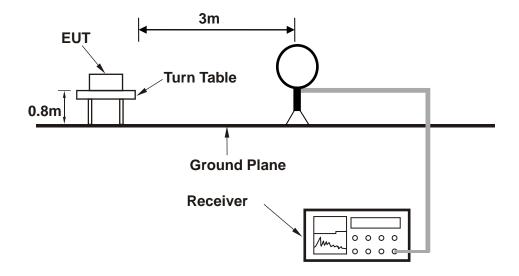
The EUT is continuously communicating during the tests.

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

Setup diagram for Conducted Test

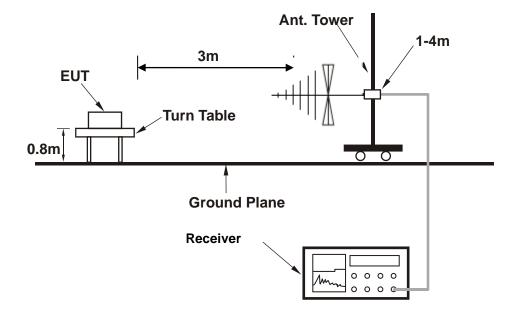


Setup diagram for Radiation(9KHz~30MHz) Test





Setup diagram for Radiation (Below 1G) Test



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)

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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

- The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used. (Since the signal being measured is CW or CW-like, it is impractical to adjust RBW according to C63.10 because the bandwidth measured will always follow RBW and the result will be approximately twice as large as RBW.)
- 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%	
Mode	Frequency	20dB Ban	dwidth [kHz]	99	% OBW[kHz]	Verdict
NFC Type B_106 Kbps	13.56MHz	2	.692		2.312	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 × 10⁶ 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 B_106 Kbps is the worst case, Only report worst mode data

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NFC Type B_106 Kbps

Voltage (Vdc)	Temperature (°C)	Measurement Frequency (MHz)	Frequency Tolerance(ppm)	Limit(ppm)	Result
10.2	20	13.56003	2.21		Pass
13.8	20	13.56015	11.06		Pass
	-20	13.56023	16.96		Pass
	-10	13.56022	16.22		Pass
	0	13.55972	-20.65	±100	Pass
40	10	13.55991	-6.64	1 100	Pass
12	20	13.55987	-9.59		Pass
	30	13.55996	-2.95		Pass
	40	13.55982	-13.27		Pass
	50	13.56024	17.70		Pass

3.3 FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK **MEASUREMENT**

3.3.1 LIMIT OF FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK

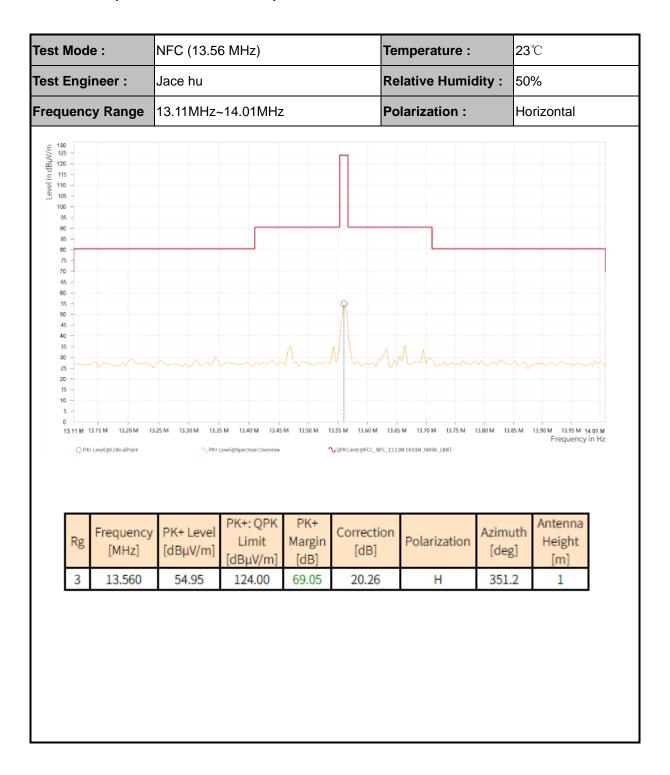
Rules and specifications	FCC CFR 47 Part 15 section 15.225 IC RSS-210 B.6						
Description	Compliance with th	Compliance with the spectrum mask is tested with RBW set to 9kHz.					
From of Emission (MIII-)	Field Strength	Field Strength	Field Strength	Field Strength			
Freq. of Emission (MHz)	(µV/m) 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

- 1. 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.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- For Fundamental emissions, use the receiver to measure QP reading.
- 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.
- Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).

3.3.3 TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK (1.705 MHZ ~ 30 MHZ)



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est Mode : est Engineer : requency Range		NFC (13.56	MHz)		Ter	nperature :	23°	°C	
		Jace hu			Relative Humidity :		ity: 50°	50%	
		13.11MHz~14.01MHz		Pol	Polarization :		Vertical		
5				Ww				0000 A	
0 - 5 - 0 - 5 - 0 - 13.11 M 13.1	15 M 13 20 M 13.2						80M 13.85M	13.90 M 13.95 M 14.01 Frequency in I	
0	ISM 1320M 132 Pred @CriticalPoint Frequency [MHz]		PK+: QPK Limit [dBµV/m]		SSM 13.60M 13.651 OPKLIMI @FCC_NFC_IXIII Correction [dB]		Azimuth		

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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**

- 1. 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.
- 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.
- For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the



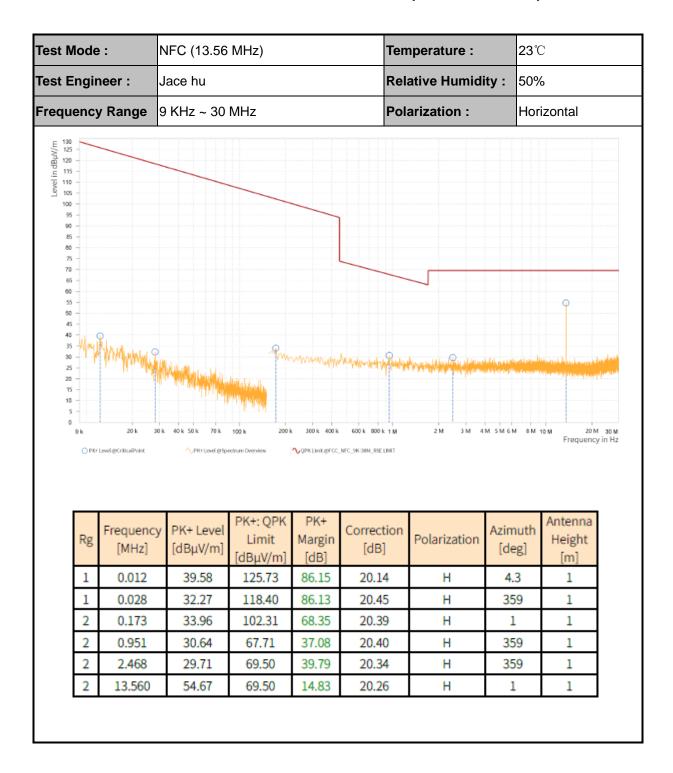
turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

- 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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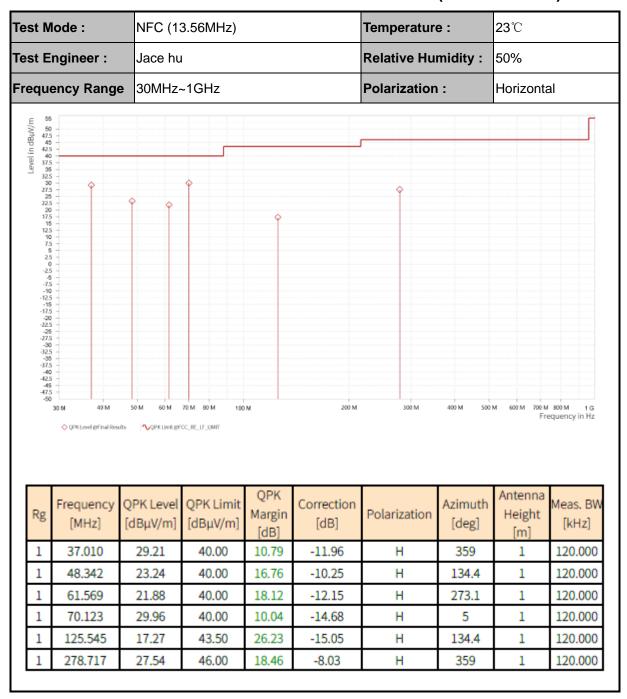


	NF	NFC (13.56 MHz)			Temp	Temperature :		23℃	
est Enginee	t Engineer : Jace hu			Rela	Relative Humidity :		50%		
requency R	ency Range 9 KHz ~ 30 MHz					plarization :		ertical	
E 130			1.PM	May May paper	"Varth rybrysath Roma			Antonio de	
15 - 10 - 5 - 0 9 k	20 k 30 k 44	Ok 50 k 70 k 100		300 k 400 k 6	00 k 100 k 1 M K-30M_RSELR#T	2M 3M 4M 5M	6M 8M 10M	20 M 30 W Frequency in H	
9 k						Polarization	Azimuth [deg]		
10 - 5 - 0 9 k	requency	PK+ Level	PK+: QPK	PK+ Margin	R-30M, RSE LINIT Correction		Azimuth	Antenna Height	
9 k PKr Level(gc)	requency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	
9 k PK-Level@C	requency [MHz] 0.012	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m] 126.10	PK+ Margin [dB] 88.29	Correction [dB]	Polarization V	Azimuth [deg]	Antenna Height [m]	
PKr Levelged	requency [MHz] 0.012 0.054	PK+ Level [dBµV/m] 37.81 23.75	PK+: QPK Limit [dBµV/m] 126.10 112.59	PK+ Margin [dB] 88.29	Correction [dB] 20.13 20.58	Polarization V V	Azimuth [deg] 359.1	Antenna Height [m] 1	
Rg F	requency [MHz] 0.012 0.054 0.195	PK+ Level [dBμV/m] 37.81 23.75 32.41	PK+: QPK Limit [dBµV/m] 126.10 112.59 101.22	PK+ Margin [dB] 88.29 88.84 68.81	Correction [dB] 20.13 20.58 20.39	Polarization V V V	Azimuth [deg] 359.1 1 359	Antenna Height [m] 1	

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3.4.5 TEST RESULT OF RADIATED SPURIOUS EMISSION (30MHZ ~ 1GHZ)





st M	ode:	NFC (13	3.56MHz)			Temperatur	e:	23℃	
st E	ngineer :	Jace hu			Relative Humidity :		50%		
eque	ency Range	30MHz~	-1GHz			Polarization : Vertical			
-6 -7.5 -10 -12.5 -15 -17.5 -20 -22.5 -26 -27.5 -30 -32.5 -36 -37.5 -40 -42.5 -45 -47.5 -45			OM BOM 100		200 M	300 M	400 M 500 I	Fre	800 M 1 G squency in Hz
Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BV [kHz]
1	40.714	24.66	40.00	15.34	-10.98	٧	4.3	1	120.000
1	70.035	19.54	40.00	20.46	-14.64	٧	273.1	1	120.000
1	132.335	29.72	43.50	13.78	-15.47	٧	273.1	1	120.000
1	178.630	23.49	43.50	20.01	-13.37	٧	1	1	120.000
1	262.668	36.12	46.00	9.88	-8.58	٧	273.1	1	120.000
1	741.098	24.49	46.00	21.51	-1.18	V	273.1	1	120.000



3.5 ANTENNA REQUIREMENTS

3.5.1 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.

3.5.2 ANTENNA CONNECTED CONSTRUCTION

An PCB Antenna design is used.

3.5.3 ANTENNA GAIN

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

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4 LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
WIDEBANDRADIO					
COMMUNICATION	Rohde&Schwarz	CMW500	169399	Jun.27,22	Jun.26,24
TESTER					
3m Semi-anechoic	TDK	0~*6~*6~	LIDOW CZ EMC 02Chambar	Nov 24 22	Nov 22 25
Chamber	IDK	9111.0111.0111	HRSW-SZ-EMC-02Chamber	NOV.24,22	Nov.23,25
Dilag Antonna	COLIMAN DADEON	VULB	4004	Fab 20 22	Cab 07 04
Bilog Antenna	SCHWARZBECK	9163	1264	Feb.28,22	Feb.27,24
Loop Antonno	D o C	HFH2-Z2/	400070	Feb.23,22	Feb.22,24
Loop Antenna	R&S	Z2E	100976		
Antenna Power	RS	N/A	N/A	N/A	N/A
Supply	KS	IN/A	IN/A	IN/A	IN/A
EMI Test Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Measurement	D o C		NI/A	NI/A	NI/A
Software	R&S	ELEKTRA	IN/A	N/A	N/A
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
CABLE	R&S	W13.01	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23

NOTE: 1. The calibration interval of the above test instruments is 6 months or 24 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 434559; The Designation No. is CN1325.

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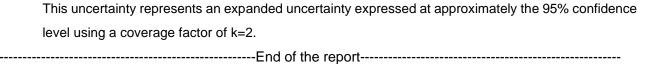
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5 UNCERTAINTY OF EVALUATION

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

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Occupied Channel Bandwidth	±43.58KHz
Frequency Stability	±76.97Hz



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