FCC Part 15C Test Report

FCC ID: 2AML8-MV8000W

Product Name:	2.4Ghz Wireless Conference Speakerphone
Trademark:	Meeteasy
Model Name :	MVOICE 8000-W MVOICE 8000-T, MVOICE 8000-P, MVOICE 8000 EX-W, MVOICE 9000-B, MVOICE 8000-V, MVOICE 9000-W, MVOICE 9000, MVOICE 9000 EX-B, MVOICE 8000 EX-T, MVOICE 9000 EX
Prepared For :	SHENZHEN HAOHUITONG TECHNOLOGY LTD.
Address :	3F,Building#10, Jiu Xiang Ling Industrial Zone,Xili, Nanshan District, Shenzhen, 518055, China
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	Jun. 10 - Jun. 22, 2017
Date of Report :	Jun. 22, 2017
Report No.:	BCTC-LH170602305E



TEST RESULT CERTIFICATION

Applicant's name...... SHENZHEN HAOHUITONG TECHNOLOGY LTD.

Address : 3F,Building#10, Jiu Xiang Ling Industrial Zone,Xili, Nanshan

District, Shenzhen, 518055, China

Manufacture's Name.....: SHENZHEN HAOHUITONG TECHNOLOGY LTD.

Address: 3F,Building#10, Jiu Xiang Ling Industrial Zone,Xili, Nanshan

District, Shenzhen, 518055, China

Product description

Product name...... 2.4Ghz Wireless Conference Speakerphone

Trademark...... Meeteasy

Model and/or type reference : MVOICE 8000-W

MVOICE 8000-T, MVOICE 8000-P, MVOICE 8000 EX-W,

MVOICE 9000-B, MVOICE 8000-V, MVOICE 9000-W, MVOICE 9000, MVOICE 9000 EX-B, MVOICE 8000 EX-T, MVOICE 9000

EX

Standards :: FCC Part15.249

ANSI C63.10-2013

This device described above has been tested by BCTC, 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.

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Prepared by(Engineer): Snow Zeng

Reviewer(Supervisor): Jade Yang

Approved(Manager): Carson Zhang







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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.249	Fundamental &Radiated Spurious Emission Measurement	PASS				
15.249	Bandwidth	PASS				
15.205	Restricted Bands Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4Ghz Wireless Conference Speakerphone				
Trademark	Meeteasy				
Model Name	MVOICE 8000-W MVOICE 8000-T, MVOICE 8000-P, MVOICE 8000 EX-W, MVOICE 9000-B, MVOICE 8000-V, MVOICE 9000-W, MVOICE 9000, MVOICE 9000 EX-B, MVOICE 8000 EX-T, MVOICE 9000 EX				
Model Difference	•	or model number and outlook color.			
		ireless Conference Speakerphone			
	Operation Frequency:	2404~2476 MHz			
	Modulation Type:	GFSK			
	Number Of Channel	19CH			
Product Description	Antenna type:	Internal Antenna			
	Antenna Gain (dBi)	2.0dBi			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.				
Channel List	Please refer to the Note	2.			
Dower	DC 3.7V				
Power	DC 5V from USB				
hardware version					
Software version					
Serial number					
Connecting I/O Port(s) Please refer to the User's Manual					

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

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Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2404	8	2432	15	2460	
2	2408	9	2436	16	2464	
3	2412	10	2440	17	2468	
4	2416	11	2444	18	2472	
5	2420	12	2448	19	2476	
6	2424	13	2452			
7	2428	14	2456			

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH19
Mode 4	Link Mode

For Radiated Emission				
Final Test Mode Description				
Mode 1	CH01			
Mode 2	CH10			
Mode 3	CH19			

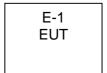
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

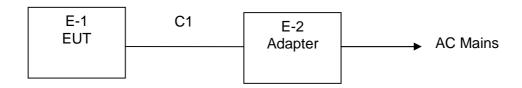


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission Test



conducted Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	2.4Ghz Wireless				
E-1	Conference	N/A	MVOICE 8000-W	N/A	EUT
	Speakerphone				
E-2	Adapter (provide by lab)	N/A	ZF120A-050150 0	N/A	I/P:AC 100-240V 50/60Hz O/P: DC 5V/1.5A

Item	Shielded Type	Ferrite Core	Length	Note
C1	No	One	1.2m	Micro USB cable

Note: For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45108040	2016.08.27	2017.08.26
2	Test Receiver (9kHz-7GHz)	R&S	ESPI	101318	2016.08.27	2017.08.26
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB 9168	VULB91 68-438	2016.08.27	2017.08.26
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1201	2016.09.03	2017.09.03
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2016.09.03	2017.09.03
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2016.08.27	2017.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2016.08.27	2017.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2016.08.27	2017.08.26
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2016.09.03	2017.09.03
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2016.08.27	2017.08.26
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2016.08.27	2017.08.26
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2016.08.27	2017.08.26
13	Power Metter	ANRITSU	ML2487A	6K00001568	2016.08.27	2017.08.26
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2016.08.27	2017.08.26
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2016.08.27	2017.08.26
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2016.08.27	2017.08.26
17	D.C. Power Supply	LongWei	PS-305D	010964729	2016.08.27	2017.08.26

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-1 01165-ha	2016.08.27	2017.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2016.08.27	2017.08.26
3	LISN	R&S	NSLK8126	8126487	2016.08.27	2017.08.26
4	RF cables	R&S	R204	R20X	2016.08.27	2017.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2016.08.27	2017.08.26



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

EDEOLIENCY (MH-	Limit (dB	uV)	Standard
FREQUENCY (MHz	Quasi-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

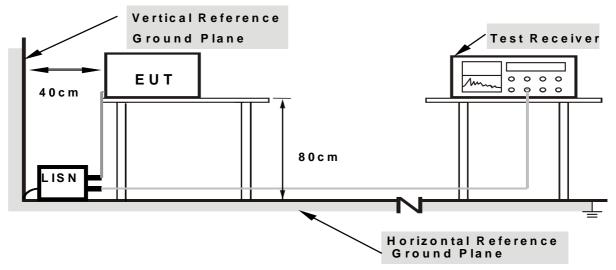
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation



3.1.4 TEST SETUP



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

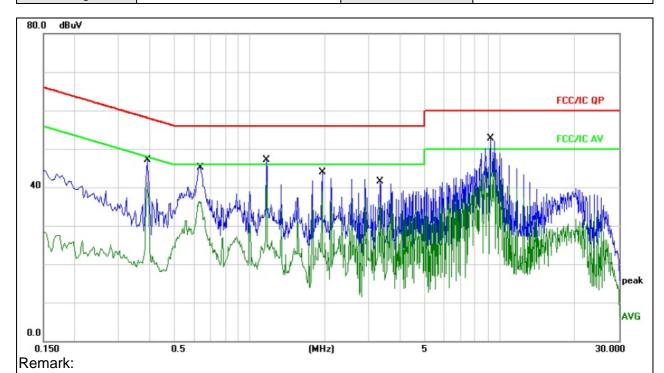
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS



Temperature:	25 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



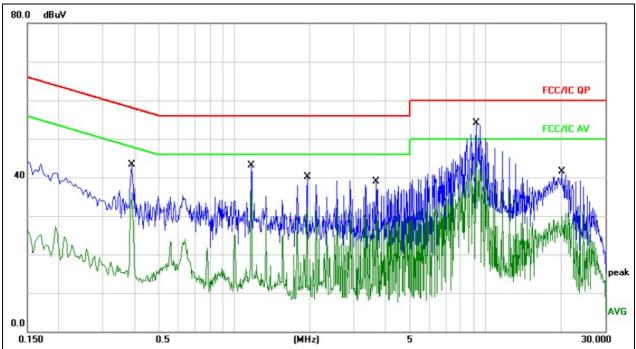
- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.3899	37.01	10.10	47.11	58.06	-10.95	QP		
2	0.3899	31.28	10.10	41.38	48.06	-6.68	AVG		
3	0.6300	35.00	10.13	45.13	56.00	-10.87	QP		
4	0.6300	26.22	10.13	36.35	46.00	-9.65	AVG		
5	1.1700	36.97	10.17	47.14	56.00	-8.86	QP		
6	1.1700	31.05	10.17	41.22	46.00	-4.78	AVG		
7	1.9500	33.81	10.18	43.99	56.00	-12.01	QP		
8	1.9500	28.77	10.18	38.95	46.00	-7.05	AVG		
9	3.3420	31.32	10.18	41.50	56.00	-14.50	QP		
10	3.3420	25.95	10.18	36.13	46.00	-9.87	AVG		
11	9.1940	42.61	10.12	52.73	60.00	-7.27	QP		
12 *	9.1940	37.55	10.12	47.67	50.00	-2.33	AVG		



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Temperature:	25 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.3899	33.17	10.10	43.27	58.06	-14.79	QP		
2	0.3899	25.96	10.10	36.06	48.06	-12.00	AVG		
3	1.1700	32.97	10.17	43.14	56.00	-12.86	QP		
4	1.1700	26.42	10.17	36.59	46.00	-9.41	AVG		
5	1.9500	29.97	10.18	40.15	56.00	-15.85	QP		
6	1.9500	22.72	10.18	32.90	46.00	-13.10	AVG		
7	3.6780	28.74	10.17	38.91	56.00	-17.09	QP		
8	3.6780	20.18	10.17	30.35	46.00	-15.65	AVG		
9	9.1940	43.93	10.12	54.05	60.00	-5.95	QP		
10 *	9.1940	34.37	10.12	44.49	50.00	-5.51	AVG		
11	20.0580	31.42	10.17	41.59	60.00	-18.41	QP		
12	20.0580	20.62	10.17	30.79	50.00	-19.21	AVG		

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
PREQUENCT (MINZ)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	25GHz	
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook 1 MHz / 10Hz for Average	
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was 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 then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table 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 Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel .Note:

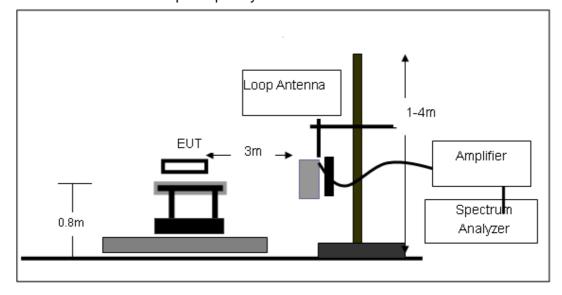
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

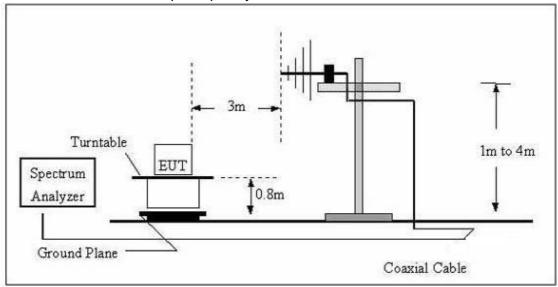
No deviation

3.2.4 TEST SETUP

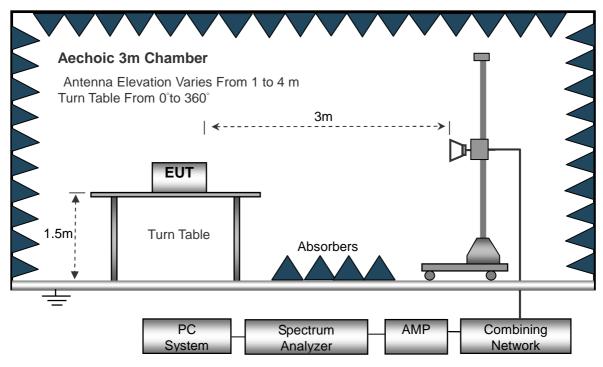
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

Temperature:	20℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 4	Polarization :	

Shenzhen BCTC Technology Co., Ltd.

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

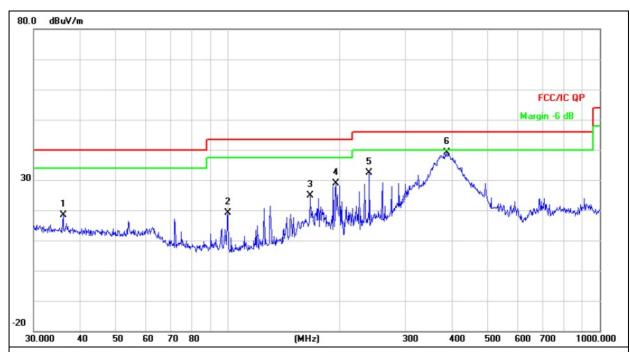
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Polarization:	Horizontal
Test Voltage :	DC 3.7V		
Test Mode :	Mode 4		



Remark:

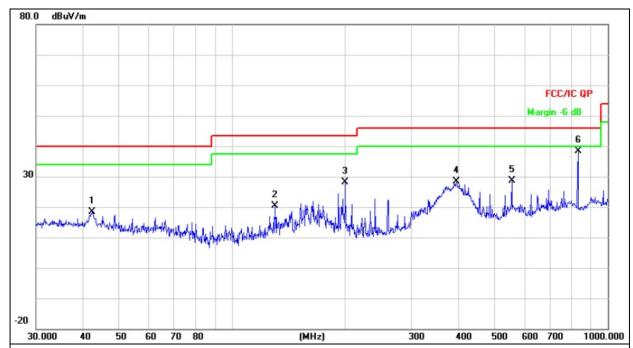
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		36.0007	26.89	-8.59	18.30	40.00	-21.70	QP
2		99.8777	35.70	-16.49	19.21	43.50	-24.29	QP
3		166.0680	38.19	-13.23	24.96	43.50	-18.54	QP
4		195.1365	44.79	-15.90	28.89	43.50	-14.61	QP
5		239.9874	46.80	-14.49	32.31	46.00	-13.69	QP
6	*	387.9920	49.64	-10.47	39.17	46.00	-6.83	QP



Shanzhan	RCTC	Technology	C_{0}	I td
SHEHZHEH	BUIL	Technology	·	Llu.

Temperature :	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Vertical
Test Voltage :	DC 3.7V		
Test Mode :	Mode 4		



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		42.3022	27.62	-9.14	18.48	40.00	-21.52	QP
2		129.9226	34.52	-14.11	20.41	43.50	-23.09	QP
3		199.9856	44.41	-16.20	28.21	43.50	-15.29	QP
4		394.8545	38.68	-10.31	28.37	46.00	-17.63	QP
5		554.8254	35.56	-6.96	28.60	46.00	-17.40	QP
6	*	833.3171	40.61	-2.22	38.39	46.00	-7.61	QP



3.2.8 TEST RESULTS (1GHZ~25GHZ)

	Polar	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
V 2404.00 107.30 38.06 7.42 20.15 96.81 114.00 -17.19 PK V 2404.00 98.10 38.06 7.42 20.15 87.61 94.00 -6.39 AV V 4808.00 58.97 38.53 7.78 23.25 51.47 74.00 -22.53 PK V 4808.00 45.42 38.53 7.78 23.25 51.47 74.00 -26.23 PK V 16128.00 49.59 38.75 10.36 26.57 47.77 74.00 -26.23 PK H 2404.00 107.27 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 2404.00 97.70 38.05 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV H 16128.00 49.34 <td< th=""><th>(H/V)</th><th>(MHz)</th><th>(dBuV)</th><th>_</th><th>(dB)</th><th>(dB/m)</th><th>(dBuV/m)</th><th>(dBuV/m)</th><th>(dB)</th><th>Туре</th></td<>	(H/V)	(MHz)	(dBuV)	_	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V 2404.00 98.10 38.06 7.42 20.15 87.61 94.00 -6.39 AV V 4808.00 58.97 38.53 7.78 23.25 51.47 74.00 -22.53 PK V 4808.00 45.42 38.53 7.78 23.25 37.92 54.00 -16.08 AV V 16128.00 49.59 38.75 10.36 26.57 47.77 74.00 -26.23 PK H 2404.00 107.27 38.06 7.42 20.15 96.78 114.00 -17.22 PK H 2404.00 97.70 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV H 16128.00 49.34 38.75 10.36 26.57 47.52 74.00 -26.48 PK V 2440.00 107.80 <td< th=""><th colspan="10">operation frequency:2404</th></td<>	operation frequency:2404									
V 4808.00 58.97 38.53 7.78 23.25 51.47 74.00 -22.53 PK V 4808.00 45.42 38.53 7.78 23.25 37.92 54.00 -16.08 AV V 16128.00 49.59 38.75 10.36 26.57 47.77 74.00 -26.23 PK H 2404.00 107.27 38.06 7.42 20.15 96.78 114.00 -17.22 PK H 2404.00 97.70 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 4808.00 59.78 38.53 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 49.34 38.53 7.78 23.25 37.80 54.00 -16.53 PK veration frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK	V	2404.00	107.30	38.06	7.42	20.15	96.81	114.00	-17.19	PK
V 4808.00 45.42 38.53 7.78 23.25 37.92 54.00 -16.08 AV V 16128.00 49.59 38.75 10.36 26.57 47.77 74.00 -26.23 PK H 2404.00 107.27 38.06 7.42 20.15 96.78 114.00 -17.22 PK H 2404.00 97.70 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 4808.00 59.78 38.53 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV Departion frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV	V	2404.00	98.10	38.06	7.42	20.15	87.61	94.00	-6.39	AV
V 16128.00 49.59 38.75 10.36 26.57 47.77 74.00 -26.23 PK H 2404.00 107.27 38.06 7.42 20.15 96.78 114.00 -17.22 PK H 2404.00 97.70 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 4808.00 59.78 38.53 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 45.30 38.53 7.78 23.25 52.28 74.00 -26.48 PK coperation frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 97.47 114.00 -15.50 PK	V	4808.00	58.97	38.53	7.78	23.25	51.47	74.00	-22.53	PK
H 2404.00 107.27 38.06 7.42 20.15 96.78 114.00 -17.22 PK H 2404.00 97.70 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 4808.00 59.78 38.53 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV H 16128.00 49.34 38.75 10.36 26.57 47.52 74.00 -26.48 PK	V	4808.00	45.42	38.53	7.78	23.25	37.92	54.00	-16.08	AV
H 2404.00 97.70 38.06 7.42 20.15 87.21 94.00 -6.79 AV H 4808.00 59.78 38.53 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV H 16128.00 49.34 38.75 10.36 26.57 47.52 74.00 -26.48 PK	V	16128.00	49.59	38.75	10.36	26.57	47.77	74.00	-26.23	PK
H 4808.00 59.78 38.53 7.78 23.25 52.28 74.00 -21.72 PK H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV H 16128.00 49.34 38.75 10.36 26.57 47.52 74.00 -26.48 PK operation frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK	Н	2404.00	107.27	38.06	7.42	20.15	96.78	114.00	-17.22	PK
H 4808.00 45.30 38.53 7.78 23.25 37.80 54.00 -16.20 AV H 16128.00 49.34 38.75 10.36 26.57 47.52 74.00 -26.48 PK operation frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 87.79 94.00 -6.21 AV	Н	2404.00	97.70	38.06	7.42	20.15	87.21	94.00	-6.79	AV
H 16128.00 49.34 38.75 10.36 26.57 47.52 74.00 -26.48 PK operation frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV	Н	4808.00	59.78	38.53	7.78	23.25	52.28	74.00	-21.72	PK
Operation frequency:2440 V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 38.93 54.00 -15.07 AV	Н	4808.00	45.30	38.53	7.78	23.25	37.80	54.00	-16.20	AV
V 2440.00 107.80 38.11 7.42 20.36 97.47 114.00 -16.53 PK V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 46.19 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 16128.00 49.51 <td< td=""><td>Н</td><td>16128.00</td><td>49.34</td><td>38.75</td><td>10.36</td><td>26.57</td><td>47.52</td><td>74.00</td><td>-26.48</td><td>PK</td></td<>	Н	16128.00	49.34	38.75	10.36	26.57	47.52	74.00	-26.48	PK
V 2440.00 97.25 38.11 7.42 20.36 86.92 94.00 -7.08 AV V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 3				0	peration	frequency	:2440			
V 4880.00 59.88 38.65 7.78 23.61 52.62 74.00 -21.38 PK V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK V 2476.00 107.85 <t< td=""><td>V</td><td>2440.00</td><td>107.80</td><td>38.11</td><td>7.42</td><td>20.36</td><td>97.47</td><td>114.00</td><td>-16.53</td><td>PK</td></t<>	V	2440.00	107.80	38.11	7.42	20.36	97.47	114.00	-16.53	PK
V 4880.00 45.46 38.65 7.78 23.61 38.20 54.00 -15.80 AV V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 <	V	2440.00	97.25	38.11	7.42	20.36	86.92	94.00	-7.08	AV
V 16128.00 47.86 38.75 10.36 26.57 46.04 74.00 -27.96 PK H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK Operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV	V	4880.00	59.88	38.65	7.78	23.61	52.62	74.00	-21.38	PK
H 2440.00 107.82 38.11 7.42 20.36 97.49 114.00 -16.51 PK H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK Operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK	V	4880.00	45.46	38.65	7.78	23.61	38.20	54.00	-15.80	AV
H 2440.00 98.12 38.11 7.42 20.36 87.79 94.00 -6.21 AV H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK	V	16128.00	47.86	38.75	10.36	26.57	46.04	74.00	-27.96	PK
H 4880.00 60.93 38.65 7.78 23.61 53.67 74.00 -20.33 PK H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK	Н	2440.00	107.82	38.11	7.42	20.36	97.49	114.00	-16.51	PK
H 4880.00 46.19 38.65 7.78 23.61 38.93 54.00 -15.07 AV H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK	Н	2440.00	98.12	38.11	7.42	20.36	87.79	94.00	-6.21	AV
H 16128.00 49.51 38.75 10.36 26.57 47.69 74.00 -26.31 PK operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK	Н	4880.00	60.93	38.65	7.78	23.61	53.67	74.00	-20.33	PK
Operation frequency:2476 V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK	Н	4880.00	46.19	38.65	7.78	23.61	38.93	54.00	-15.07	AV
V 2476.00 107.85 38.17 7.42 20.51 97.61 114.00 -16.39 PK V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77	Н	16128.00	49.51	38.75	10.36	26.57	47.69	74.00	-26.31	PK
V 2476.00 97.34 38.17 7.42 20.51 87.10 94.00 -6.90 AV V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV				0	peration	frequency	:2476			
V 4952.00 60.68 38.63 7.72 23.85 53.62 74.00 -20.38 PK V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	V	2476.00	107.85	38.17	7.42	20.51	97.61	114.00	-16.39	PK
V 4952.00 45.74 38.63 7.72 23.85 38.68 54.00 -15.32 AV V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	V	2476.00	97.34	38.17	7.42	20.51	87.10	94.00	-6.90	AV
V 16128.00 49.73 38.75 10.36 26.57 47.91 74.00 -26.09 PK H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	V	4952.00	60.68	38.63	7.72	23.85	53.62	74.00	-20.38	PK
H 2476.00 107.88 38.17 7.42 20.51 97.64 114.00 -16.36 PK H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	V	4952.00	45.74	38.63	7.72	23.85	38.68	54.00	-15.32	AV
H 2476.00 97.20 38.17 7.42 20.51 86.96 94.00 -7.04 AV H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	V	16128.00	49.73	38.75	10.36	26.57	47.91	74.00	-26.09	PK
H 4952.00 60.88 38.63 7.72 23.85 53.82 74.00 -20.18 PK H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	Н	2476.00	107.88	38.17	7.42	20.51	97.64	114.00	-16.36	PK
H 4952.00 45.77 38.63 7.72 23.85 38.71 54.00 -15.29 AV	Н	2476.00	97.20	38.17	7.42	20.51	86.96	94.00	-7.04	AV
	Н	4952.00	60.88	38.63	7.72	23.85	53.82	74.00	-20.18	PK
H 16128.00 50.05 38.75 10.36 26.57 48.23 74.00 -25.77 PK	Н	4952.00	45.77	38.63	7.72	23.85	38.71	54.00	-15.29	AV
	Н	16128.00	50.05	38.75	10.36	26.57	48.23	74.00	-25.77	PK

Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MH-)	Limit (dBuV/	m) (at 3M)
FREQUENCY (MHz)	PEAK	AVERAGE
Above 1000	74	54

Shenzhen BCTC Technology Co., Ltd.

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	2300MHz	
Stop Frequency	2520	
RB / VB (emission in restricted	4 Mile / 4 Mile for Dook 4 Mile / 40He for Average	
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was 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 then the antenna was tuned to heights from 1 meter to 4 meters and the rota table 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 Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

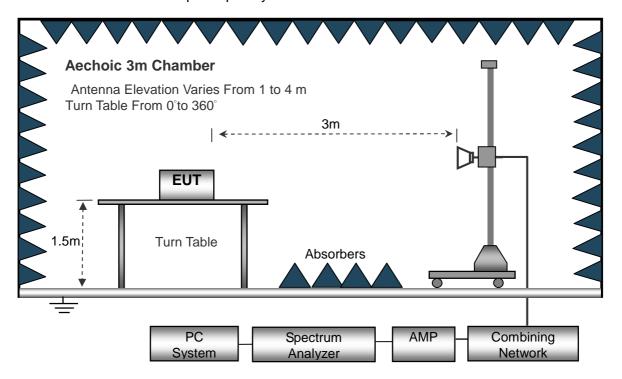


3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

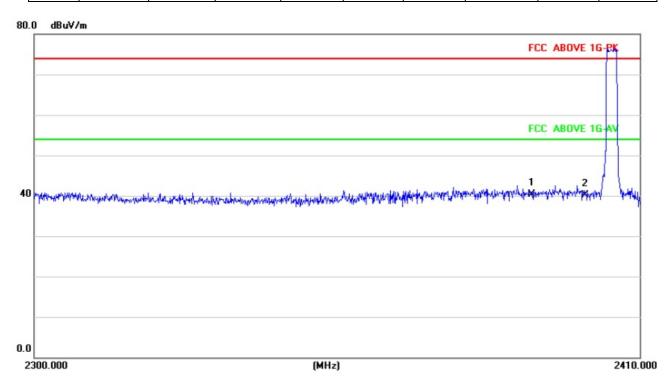
The plot only show the Horizontal's average data.

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3.3.6 TEST RESULT

Polar	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m	(dB)	Туре
	operation frequency:2404								
V	2390.00	66.88	38.06	7.42	20.15	56.39	74.00	-17.61	PK
V	2390.00	55.56	38.06	7.42	20.15	45.07	54.00	-8.93	AV
V	2400.00	67.08	38.06	7.42	20.15	56.59	74.00	-17.41	PK
V	2400.00	55.13	38.06	7.42	20.15	44.64	54.00	-9.36	AV
Н	2390.00	67.16	38.06	7.42	20.15	56.67	74.00	-17.33	PK
Н	2390.00	55.59	38.06	7.42	20.15	45.10	54.00	-8.90	AV
Н	2400.00	67.03	38.06	7.42	20.15	56.54	74.00	-17.46	PK
Н	2400.00	55.53	38.06	7.42	20.15	45.04	54.00	-8.96	AV

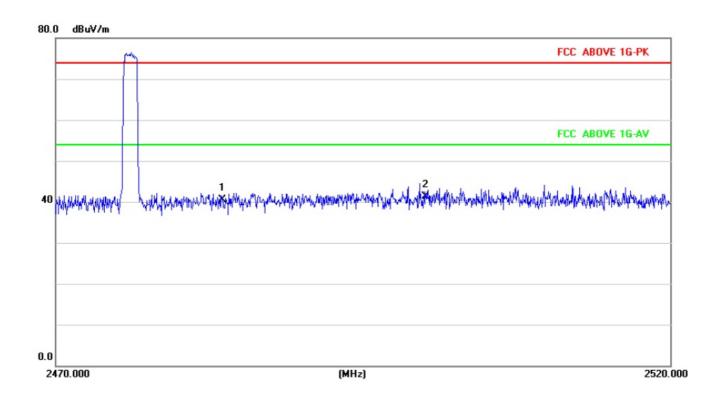




Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
(11/4)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	туре
	operation frequency:2476								
V	2483.50	67.08	38.17	7.42	20.51	56.84	74.00	-17.16	PK
V	2483.50	55.79	38.17	7.42	20.51	45.55	54.00	-8.45	AV
V	2500.00	67.02	38.20	7.45	20.54	56.81	74.00	-17.19	PK
V	2500.00	55.24	38.20	7.45	20.54	45.03	54.00	-8.97	AV
Н	2483.50	67.20	38.17	7.42	20.51	56.96	74.00	-17.04	PK
Н	2483.50	55.84	38.17	7.42	20.51	45.60	54.00	-8.40	AV
Н	2500.00	66.83	38.20	7.45	20.54	56.62	74.00	-17.38	PK
Н	2500.00	56.09	38.20	7.45	20.54	45.88	54.00	-8.12	AV

Remark:

- 1. Emission Level = Meter Reading + Factor, Margin= Emission Level Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





4. BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249), Subpart C					
Section	Test Item				
15.249	Bandwidth				

Shenzhen BCTC Technology Co., Ltd.

4.1.1 TEST PROCEDURE

- 1. Set RBW = 30 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. 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 6 dB relative to the maximum level measured in the fundamental emission.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

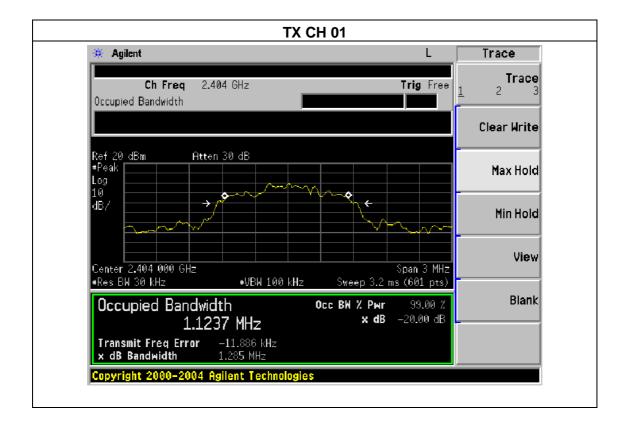
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

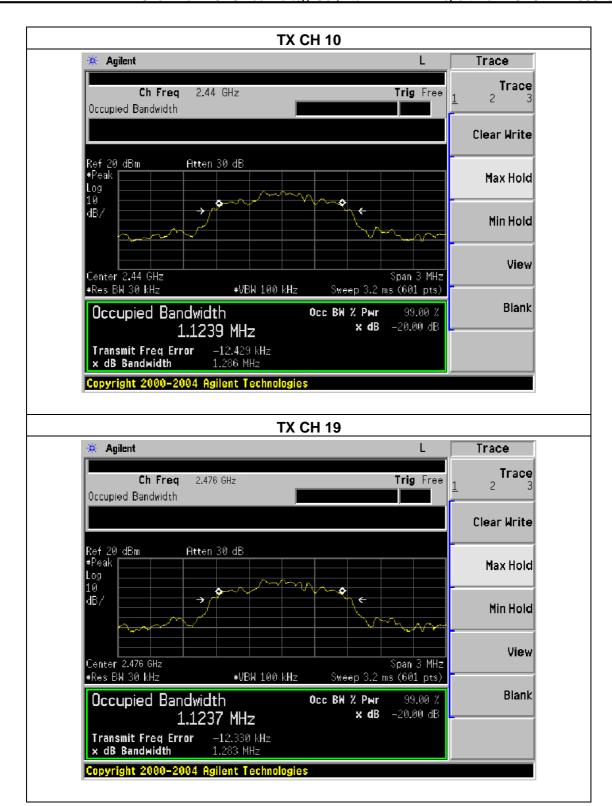


4.1.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH10, CH19		

Frequency (MHz)	20dB bandwidth (KHz)	Result
2404	1285	Pass
2440	1286	Pass
2476	1283	Pass







5. ANTENNA REQUIREMENT

5.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

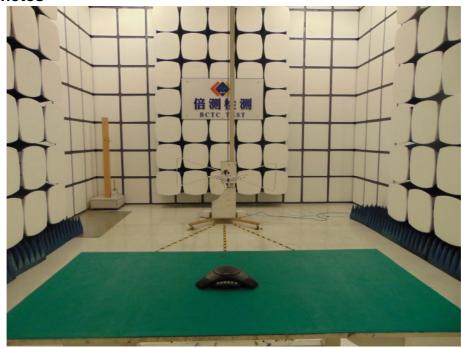
5.2 EUT ANTENNA

The EUT antenna is internal antenna, It comply with the standard requirement.

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6. TEST SETUP PHOTO

Radiated Photos





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Conducted Photos



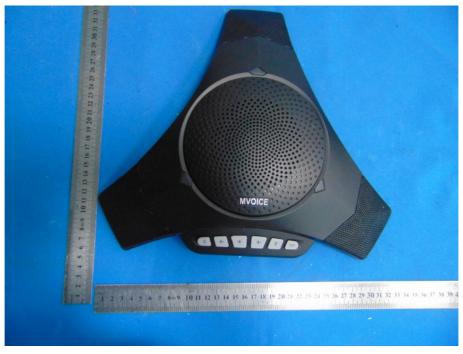


7. EUT PHOTO











******* END OF REPORT ******