

FCC Part 15C Test Report

Report No.: BCTC-LH160810519E

FCC ID: 2AJP6HB-A380

Product Name:	Panic Button
Trademark:	N/A
Model Name :	HB-A380
Prepared For :	Ningbo Hengbo Telecommunication Co.,Ltd
Address :	No.1 JinQiao 8th Road,Ninghai County,Ningbo City,Zhejiang Province, China
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	Aug. 28, - Sep. 05, 2016
Date of Report :	Sep. 05, 2016
Report No.:	BCTC-LH160810519E



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VERIFICATION OF COMPLIANCE

Applicant's name:	Ningbo Hengbo Telecommunication Co.,Ltd			
Address:	No.1 JinQiao 8th Road,Ninghai County,Ningbo City,Zhejiang Province, China			
Manufacture's Name:	Ningbo Hengbo Telecommunication Co.,Ltd			
Address:	No.1 JinQiao 8th Road,Ninghai County,Ningbo City,Zhejiang Province, China			
Product description				
Product name:	Panic Button			
Trademark:	N/A			
Model Name:	HB-A380			
Standards	FCC Part15.231 ANSI C63.10-2013			
	s been tested by BCTC, and the test results show that the n compliance with the FCC requirements. And it is applicable only n the report.			
	ced except in full, without the written approval of BCTC, this ised by BCTC, personal only, and shall be noted in the revision of			
Test Result	: Pass			
Testing Engineer :	Eric Yang			
Technical Manager :	Eric Yang Jade Yang C			

Authorized Signatory:



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.231) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	N/A			
15.209,15.231b	Radiated Emission Test	PASS			
15.231c	20dB Occupy Bandwidth	PASS			
15.231a	Dwell time	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 Registration 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 $\mathbf{95}$ %.

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%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Panic Button			
Trade Name	N/A			
Model Name	HB-A380			
Model Difference	N/A			
	The EUT is a Panic Butt	on		
	Operation Frequency:	434.6MHz		
	Modulation Type:	FSK+FHSS		
Draduat Deparintion	Antenna Designation:	internal Antenna		
Product Description	Antenna Gain 3.0dBi			
	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.			
Adapter	N/A			
Power	DC 3.0V			
Connecting I/O Port(s)	Please refer to the User's Manual			
Hardware Version				
Software Version				

Note:

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



2.2 DESCRIPTION OF TEST MODES

For All Emission			
Final Test Mode	Description		
Mode 1	TX Mode		

Note:

- (1) New battery is used during the test
- (2) The antenna is telescopic antenna, The worst mode is on max length(7cm).
- (3) For this device equipped with 4 buttons, all 4 buttons was pre-tested and the worst button was Increase the speed button and the data was recrding the report.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious 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
E-1	Panic Button	N/A	HB-A380		EUT

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation, 20db bandwith, dwell time test equipment

Radia	Radiation, 20db bandwith,dwell time test equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	Aug. 27, 2016	Aug. 26, 2017
2	Test Receiver	R&S	ESCI	1166.595 0K03-101 165-ha	Aug. 27, 2016	Aug. 26, 2017
3	Bilog Antenna	R&S	VULB 9168	VULB91 68-438	Aug. 27, 2016	Aug. 26, 2017
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Aug. 27, 2016	Aug. 26, 2017
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Aug. 27, 2016	Aug. 26, 2017
6	Horn Antenna	R&S	HF906	10027	Aug. 30, 2016	Aug. 29, 2017
8	Amplifier	R&S	BBV9743	9743-01 9	Aug. 27, 2016	Aug. 26, 2017
9	Loop Antenna	ARA	PLA-1030/B	1029	Aug. 27, 2016	Aug. 26, 2017
10	RF cables (9kHz~1GHz)	R&S	R203	R20X	Aug. 27, 2016	Aug. 26, 2017
11	Antenna connector (20db bandwith,dwell time)	Florida RFLa bs	Lab-Fle	RF 01#	Aug. 27, 2016	Aug. 26, 2017
12	966 Chamber	ChengYu	966 Room	966	Jul. 07, 2016	Jul. 06, 2017
NIALA. T	Note: The temporary antenna connector is soldered on the PCB hoard in order to perform conducted tests and this temporary antenna					

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class B (d	Standard	
FRE U NCY (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

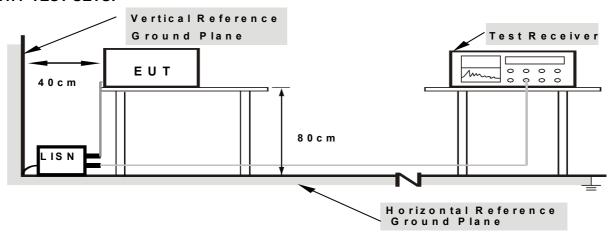
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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

The product's power provide DC 3.0V, no requriment for conduct test.



3.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.231(b) limit in the table below has to be followed.

DC TOHOWCU.		
Frequencies(MHz) Field Strength(micorvolts/r		Measurement Distance(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)

	Class B (dBuV/m) (at 3M)			
FREQUENCY (MHz)	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).

FUNDAMENTAL AND HARMONICS EMISSION LIMITS

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

^{**} linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]



FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW setting	1 MHz / 1 MHz for Peak

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:

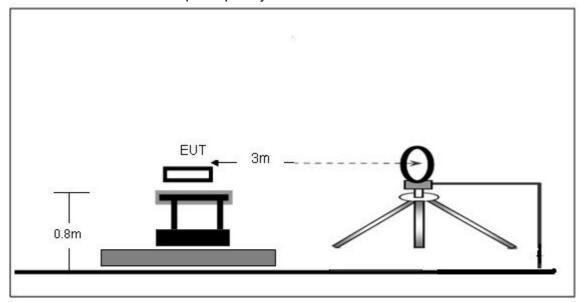
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

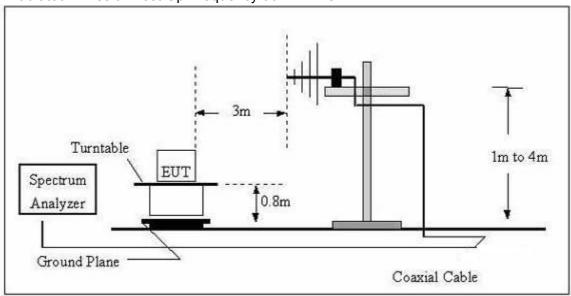
3.2.4 TEST SETUP

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

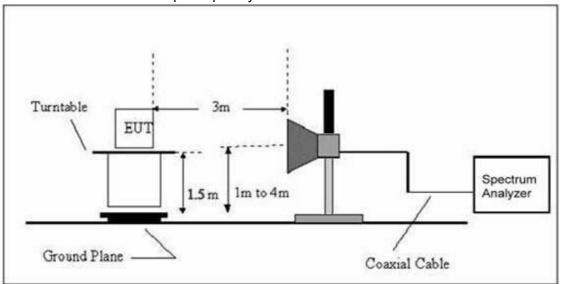




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

Radiated Spurious Emission (Below 30MHz)

EUT:	Panic Button	Model Name :	HB-A380
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Polarization :	
Test Voltage :	DC 3.0V		
Test Mode :	TX Mode		

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.

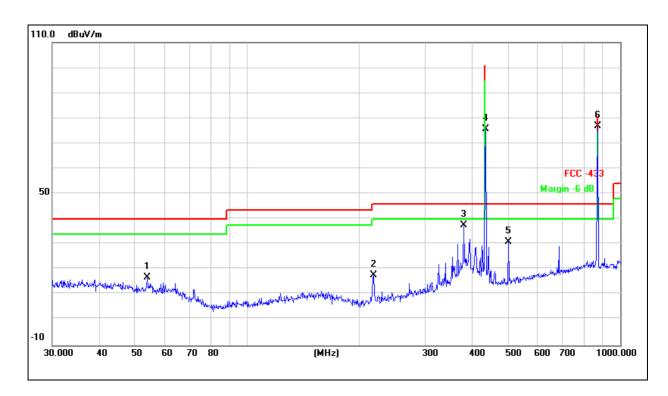
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

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



Radiated Spurious Emission (Between 30MHz – 1GHz)

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.0V		
Test Mode :	TX Mode		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	53.8818	27.67	-10.93	16.74	40.00	-23.26	QP
2	218.3085	33.35	-15.69	17.66	46.00	-28.34	QP
3	381.2487	48.15	-10.64	37.51	46.00	-8.49	QP
4	434.6000	84.87	-9.31	75.56	100.85	-25.29	peak
5	501.1790	39.08	-8.19	30.89	46.00	-15.11	QP
6	869.2000	58.76	-2.05	56.71	80.85	-24.14	peak

Remark:

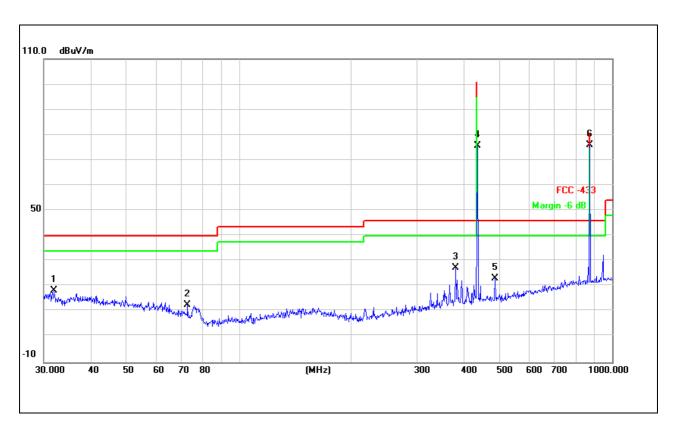
Factor = Antenna Factor + Correct Factor. Correct Factor= Cable Loss – Pre-amplifier



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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.0V		
Test Mode :	TX Mode		

Report No.: BCTC-LH160810519E



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9545	26.50	-8.29	18.21	40.00	-21.79	QP
2	72.8465	28.08	-15.56	12.52	40.00	-27.48	QP
3	381.2486	37.99	-10.64	27.35	46.00	-18.65	QP
4	434.6000	84.94	-9.31	75.63	100.85	-25.22	peak
5	485.6093	31.48	-8.36	23.12	46.00	-22.88	QP
6	869.2000	59.74	-1.84	57.90	80.85	-22.95	peak

Remark:

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



For average Emission

Frequency MHz	Peak Level dBuV/m	Duty cycle factor	AverageLevel dBuV/m	Polarization	Limit AV	Margin
434.60	75.63	0	75.63	Vertical	80.85	-5.22
869.20	57.90	0	57.90	Vertical	60.85	-2.95

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Notes: 1. Average emission Level = Peak Level + Duty cycle factor 2.Duty cycle level please see clause 5.

Frequency MHz	Peak Level dBuV/m	Duty cycle factor	AverageLevel dBuV/m	Polarization	Limit AV	Margin
434.60	75.56	0	75.56	Horizontal	80.85	-5.29
869.20	56.71	0	56.71	Horizontal	60.85	-4.14

Notes: 1. Average emission Level = Peak Level + Duty cycle factor 2.Duty cycle level please see clause 5.



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Radiated Spurious Emission (1GHz to 10th harmonics)

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.0V		
Test Mode :	TX Mode		

Report No.: BCTC-LH160810519E

Frequency MHz	Peak Reading Level dBuV/m	Correct Factor	Peak Level dBuV/m	Duty cycle factor	Average Level dBuV/m	Polarization	Limit AV	Limit PK	Margin AV	Margin PK
1303.80	42.02	12.45	54.47	0	54.47	Horizontal	60.85	80.85	-6.38	-26.33
1738.40	44.04	12.81	56.85	0	56.85	Horizontal	60.85	80.85	-4.00	-23.95
2173.00	42.49	13.37	55.86	0	55.86	Horizontal	60.85	80.85	-4.99	-24.94
2607.60	41.23	14.27	55.50	0	55.50	Horizontal	60.85	80.85	-5.35	-25.30
4057.53	32.34	15.78	48.12	1	1	Horizontal	54.00	74.00	1	-32.68
4876.39	31.43	18.21	49.64	1	/	Horizontal	54.00	74.00	1	-31.16

Frequency MHz	Peak Reading Level dBuV/m	Correct Factor	Peak Level dBuV/m	Duty cycle factor	Average Level dBuV/m	Polarization	Limit AV	Limit PK	Margin AV	Margin PK
1303.80	43.24	12.45	55.69	0	55.69	Vertical	60.85	80.85	-5.16	-25.11
1738.40	44.02	12.81	56.83	0	56.83	Vertical	60.85	80.85	-4.02	-23.97
2173.00	42.16	13.37	55.53	0	55.53	Vertical	60.85	80.85	-5.32	-25.27
2607.60	40.35	14.27	54.62	0	54.62	Vertical	60.85	80.85	-6.23	-26.18
4057.53	31.15	15.78	46.93	1	1	Vertical	54.00	74.00	1	-33.87
4876.39	30.09	18.21	48.30	1	1	Vertical	54.00	74.00	1	-32.50

Notes: 1. Average emission Level = Peak Level + Duty cycle factor

2. Peak emission Level = Reading Level + Duty cycle factor

3. Duty cycle level please see clause 5.

4. Correct Factor= Cable Loss - Pre-amplifier



4. BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

According to FCC 15.231(c) requirement:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating between 70 MHz to 900 MHz. Those devices operating above 900 MHz, the emission spurious shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

B.W (20dBc) Limit = 0.25% * f(MHz) = 0.25% * 434.6MHz = 1.0865MHz

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	100kHz
VB	≥RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100kHz, VBW≥ RBW, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

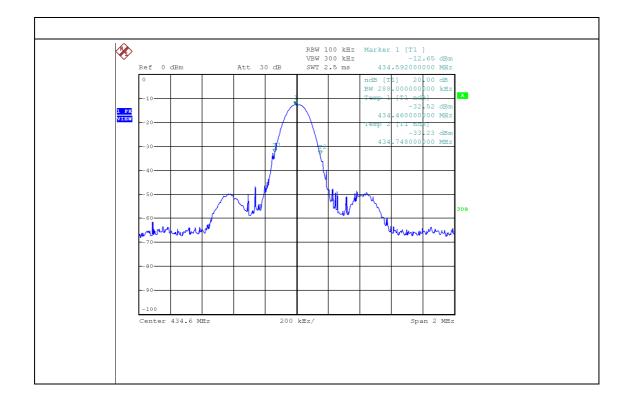
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX Mode		

Frequency	20dB Bandwidth (kHz)	Result
433.92MHz	288	PASS





5. CALCULATION OF AVERAGE FACTOR

The output field strengths of specification in accordance with the FCC rules specify measurements with an average detector. During the test, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The duty cycle is measured in 100 ms or the repetition cycle period, whichever is a shorter time frame. The duty cycle is measured by placing the spectrum analyzer to set zero span at 100kHz resolution bandwidth.

Averaging factor in dB =20log (duty cycle)

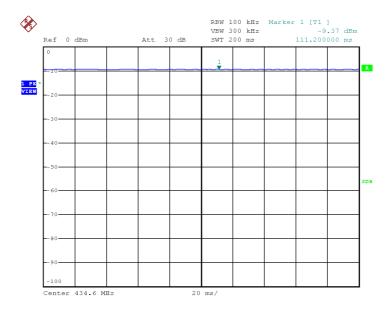
The duration of one cycle = 100ms

The duty cycle is simply the on-time divided the duration of one cycle

Duty Cycle =100%

Therefore, the averaging factor is found by 20log1=0dB

Test plot as follows:





6. DWELL TIME APPLICABLE STANDARD

According to FCC 15.231(a) requirement:

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

6.1 DEVIATION FROM STANDARD

No deviation.

6.2 TEST SETUP



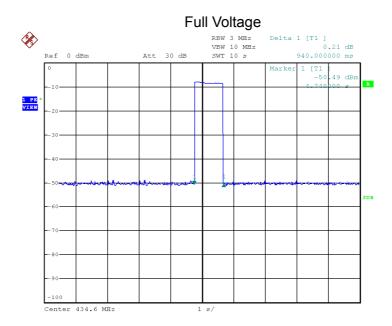
6.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.4 TEST RESULTS

	Dwell time (second)	Limit (second)	Result
Normal	0.94	<5s	Pass





7. ANTENNA REQUIREMENT

7.1 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.

7.2 EUT ANTENNA

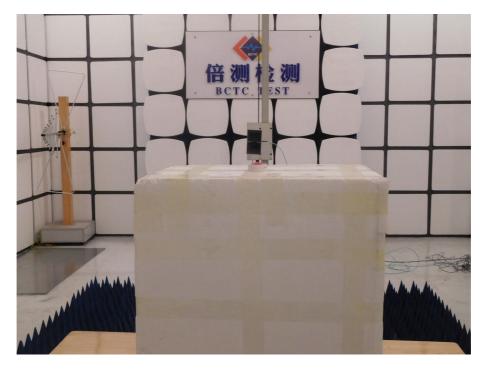
The EUT antenna is the internal antenna. It comply with the standard requirement.



8. EUT TEST PHOTO

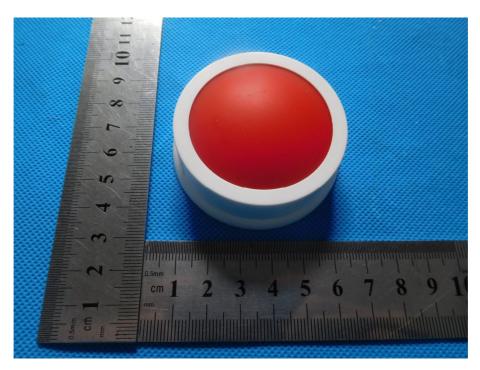
Radiated Measurement Photos





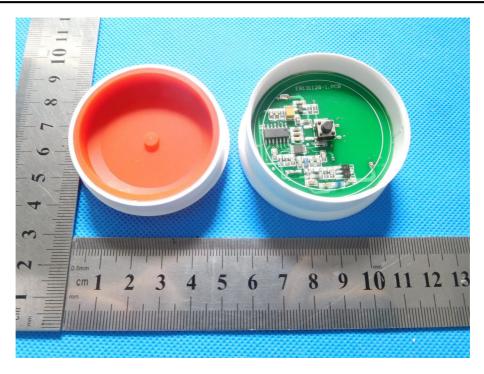


9. EUT TEST PHOTO









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