

TEST REPORT

Report No.: BCTC2102142931E

Applicant: Shenzhen Ultra Easy Technology CO., LTD

Product Name: smart watch

Model/Type Ref.: CXB02

Tested Date: 2021-02-02 to 2021-02-24

Issued Date: 2021-02-24



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FCC ID: 2AWWR-CXB02

Product Name: smart watch

N/A Trademark:

CXB02 Model/Type Ref.: CXB03

Shenzhen Ultra Easy Technology CO., LTD Prepared For:

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District, Shenzhen City, Guangdong Province, China

Shenzhen Ultra Easy Technology CO., LTD Manufacturer:

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District, Shenzhen City, Guangdong Province, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan

1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Address:

Shenzhen, Guangdong, China

Sample Received Date: 2021-02-02

2021-02-02 to 2021-02-24 Sample tested Date:

Issue Date: 2021-02-24

BCTC2102142931E Report No.:

FCC Part15.247 **Test Standards** ANSI C63.10-2013

Test Results PASS

Remark: This is Bluetooth BLE radio test report.

Tested by:

Willem Wang/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A means not applicable)

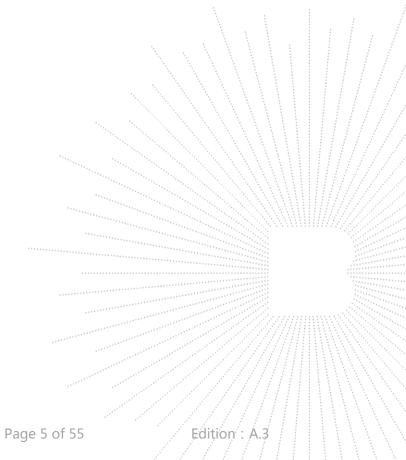
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1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2102142931E 2021-02-		Original	Valid



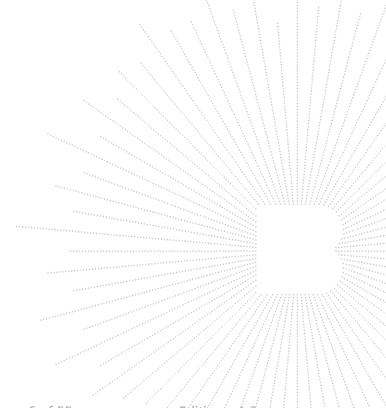
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2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d), 15.205	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247(d)	PASS
8	Antenna Requirement	15.203	PASS



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3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃

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4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type Ref.: CXB02

CXB03

Model differences: All the model are the same circuit and RF module, except model

names and appearance. See the Note 1.

Bluetooth Version: BT 5.0

Hardware Version: RH239_V03

Software Version: V000073

Operation Frequency: Bluetooth: 2402MHz-2480MHz

Type of Modulation: Bluetooth: GFSK

Number Of Channel 40CH

Antenna installation: Bluetooth: Internal antenna

Antenna Gain: Bluetooth : -2.27dBi
Ratings: DC 5V from adapter

DC 3.7V from Battery

Note 1:





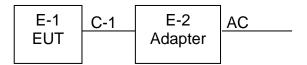
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4.2 Test Setup Configuration

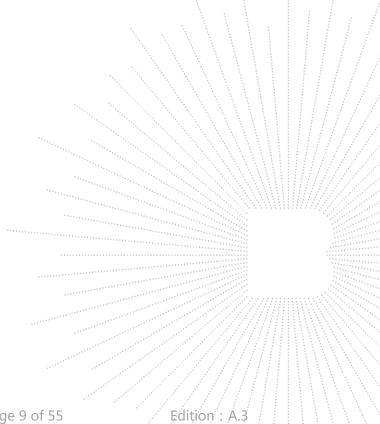
See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission

E-1 EUT



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4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
E-1	smart watch	N/A	CXB02	-	EUT	E-1
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary	E-2

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.3M	DC cable unshielded

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Onamic L							
Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
01	2402	11	2422	21	2442		
02	2404	12	2424	22	2444		
03	2406	13	2426	23	2446		
~	~	~	~	~~~			
09	2418	19	2438	39	2478		
10	2420	20	2440	40	2480		

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4.5 Test Mode

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.

For All Mode	Description	Modulation Type	
Mode 1	CH01		
Mode 2	CH20	GFSK(1Mbps)	
Mode 3	CH40		
Mode 4	CH01		
Mode 5	CH20	GFSK(2Mbps)	
Mode 6	CH40		
Mode 7	Link mode (Conducted emission and Radiated emission)		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

4.6 table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	BeeMPTool2.0.9_LE_TX			
Frequency	2402 MHz	2440 MHz	2480 MHz	
Parameters	DEF	DEF	DEF	

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5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

Conducted emissions Test							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021		
LISN	R&S	ENV216	101375	Jun. 04, 2020	Jun. 03, 2021		
ISN	HPX	ISN T800	S1509001	Jun. 04, 2020	Jun. 03, 2021		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\		

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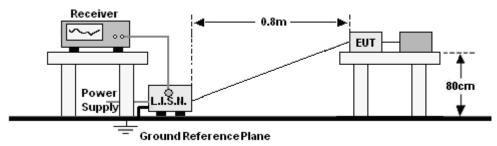
Report No.: BCTC2102142331L										
	Radiated emissions Test (966 chamber)									
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.					
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023					
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021					
Receiver	R&S	ESRP	101154	Jun. 08, 2020	Jun. 07, 2021					
Amplifier	Schwarzbeck	BBV9718	9718-309	Jun. 04, 2020	Jun. 03, 2021					
Amplifier	Schwarzbeck	BBV9744	9744-0037	Jun. 04, 2020	Jun. 03, 2021					
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163 -942	Jun. 08, 2020	Jun. 07, 2021					
Horn Antenna	SCHWARZBE CK	BBHA9120 D	1541	Jun. 10, 2020	Jun. 09, 2021					
Horn Antenna (18GHz-40 GHz)	SCHWARZBE CK	BBHA9170	822	Jun. 10, 2020	Jun. 09, 2021					
Amplifier (18GHz-40 GHz)	MITEQ	TTA1840-3 5-HG	2034381	Jun. 08, 2020	Jun. 07, 2021					
Loop Antenna (9KHz-30M Hz)	SCHWARZBE CK	FMZB1519 B	014	Jun. 08, 2020	Jun. 07, 2021					
RF cables1 (9kHz-30MH z)	Huber+Suhnar	9kHz-30M Hz	B1702988- 0008	Jun. 08, 2020	Jun. 07, 2021					
RF cables2 (30MHz-1G Hz)	Huber+Suhnar	30MHz-1G Hz	1486150	Jun. 08, 2020	Jun. 07, 2021					
RF cables3 (1GHz-40G Hz)	Huber+Suhnar	1GHz-40G Hz	1607106	Jun. 08, 2020	Jun. 07, 2021					
Power Metter	Keysight	E4419B	\	Jun. 08, 2020	Jun. 07, 2021					
Power Sensor (AV)	Keysight	E9 300A	/	Jun. 08, 2020	Jun. 07, 2021					
Signal Analyzer 20kHz-26.5 GHz	KEYSIGHT	N9020A	MY491000 60	Jun. 04, 2020	Jun. 03, 2021					
Spectrum Analyzer 9kHz-40G Hz	Agilent	FSP40	100363	Jun. 08, 2020	Jun. 07, 2021					
Software	Frad	EZ-EMC	FA-03A2 RE	and a second						

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6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)			
FREQUENCY (MHZ)	Quas-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

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Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

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

- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

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.

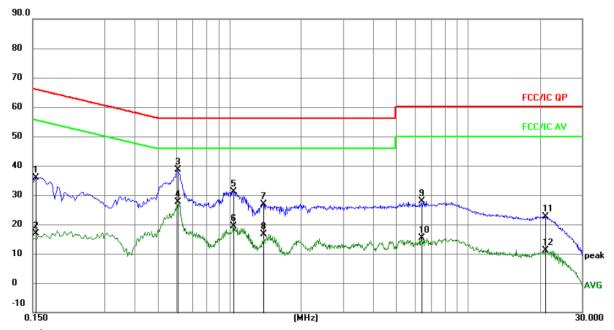
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Test Result 6.5

Report No.:	BCTC2102142931E
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 3.7V	Test Mode:	Mode 7
Test Model	CXB02		

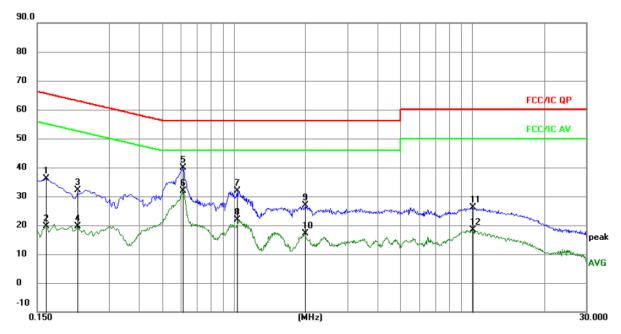


- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz		dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	26.43	9.51	35.94	65.75	-29.81	QP	
2	0.1545	7.35	9.51	16.86	55.75	-38.89	AVG	
3 *	0.6090	28.65	9.97	38.62	56.00	-17.38	QP	
4	0.6090	17.69	9.97	27.66	46.00	-18.34	AVG	
5	1.0410	21.59	9.57	31.16	56.00	-24.84	QP	
6	1.0410	9.93	9.57	19.50	46.00	-26.50	AVG	
7	1.3875	17.41	9.58	26.99	56.00	-29.01	QP	
8	1.3875	6.98	9.58	16.56	46.00	-29.44	AVG	
9	6.3555	18.25	9.75	28.00	60.00	-32.00	QP	
10	6.3555	5.51	9.75	15.26	50.00	-34.74	AVG	
11	21.1064	12.82	9.78	22.60	60.00	-37.40	QP	
12	21.1064	1.23	9.78	11.01	50.00	-38.99	AVG	



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 3.7V	Test Mode:	Mode 7
Test Model	CXB02		

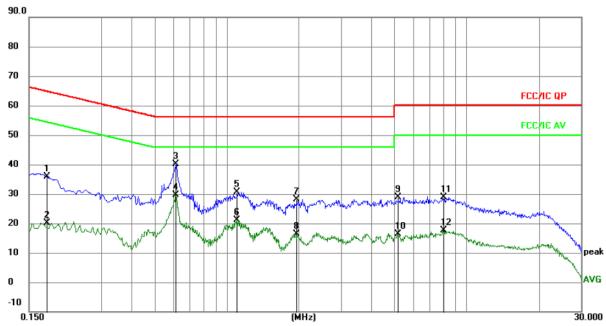


- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

							*	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz		dB	dBuV	dBuV	dB	Detector	Comment
1	0.1635	26.57	9.50	36.07	65.28	-29.21	QP	
2	0.1635	10.14	9.50	19.64	55.28	-35.64	AVG	
3	0.2220	22.62	9.49	32.11	62.74	-30.63	QP	
4	0.2220	10.12	9.49	19.61	52.74	-33.13	AVG	
5	0.6134	30.04	9.95	39.99	56.00	-16.01	QP	
6 *	0.6134	22.00	9.95	31.95	46.00	-14.05	AVG	
7	1.0319	22.23	9.57	31.80	56.00	-24.20	QP	
8	1.0319	12.25	9.57	21.82	46.00	-24.18	AVG	
9	1.9814	17.21	9.59	26.80	56.00	-29.20	QP	
10	1.9814	7.51	9.59	17.10	46.00	-28.90	AVG	
11	10.0635	16.41	9.69	26.10	60.00	-33.90	QP	
12	10.0635	8.58	9.69	18.27	50.00	-31.73	AVG	



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 3.7V	Test Mode:	Mode 7
Test Model	CXB03		

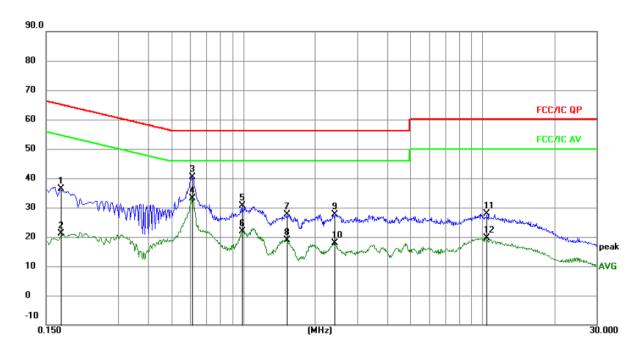


- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz		dB	dBuV	dBuV	dB	Detector	Comment
1	0.1777	26.35	9.49	35.84	64.59	-28.75	QP	
2	0.1777	10.71	9.49	20.20	54.59	-34.39	AVG	
3 *	0.6134	30.21	9.95	40.16	56.00	-15.84	QP	
4	0.6134	19.56	9.95	29.51	46.00	-16.49	AVG	
5	1.1038	20.95	9.57	30.52	56.00	-25.48	QP	
6	1.1038	11.61	9.57	21.18	46.00	-24.82	AVG	
7	1.9454	18.47	9.59	28.06	56.00	-27.94	QP	
8	1.9454	6.84	9.59	16.43	46.00	-29.57	AVG	
9	5.1405	18.99	9.79	28.78	60.00	-31.22	QP	
10	5.1405	6.68	9.79	16.47	50.00	-33.53	AVG	
11	8.0024	19.16	9.71	28.87	60.00	-31.13	QP	
12	8.0024	7.86	9.71	17.57	50.00	-32.43	AVG	



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 3.7V	Test Mode:	Mode 7
Test Model	CXB03		



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

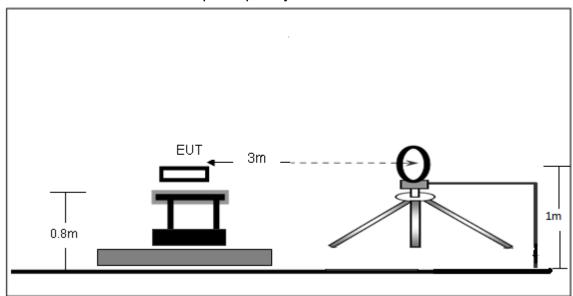
							,	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz		dB	dBuV	dBuV	dB	Detector	Comment
1	0.1725	26.79	9.49	36.28	64.84	-28.56	QP	
2	0.1725	11.63	9.49	21.12	54.84	-33.72	AVG	
3	0.6134	30.46	9.95	40.41	56.00	-15.59	QP	
4 *	0.6134	23.11	9.95	33.06	46.00	-12.94	AVG	
5	0.9914	21.17	9.57	30.74	56.00	-25.26	QP	
6	0.9914	12.37	9.57	21.94	46.00	-24.06	AVG	
7	1.5269	18.00	9.58	27.58	56.00	-28.42	QP	
8	1.5269	9.37	9.58	18.95	46.00	-27.05	AVG	
9	2.4044	18.07	9.62	27.69	56.00	-28.31	QP	
10	2.4044	8.20	9.62	17.82	46.00	-28.18	AVG	
11	10.3740	18.14	9.69	27.83	60.00	-32.17	QP	
12	10.3740	9.95	9.69	19.64	50.00	-30.36	AVG	



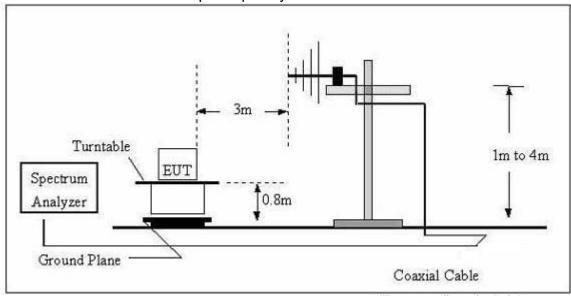
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

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



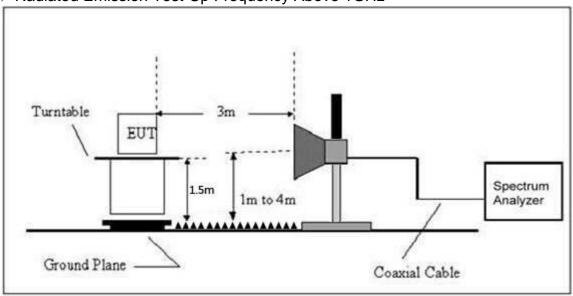
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



7.2 Limit

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 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENC	Limit (dBuV/m) (at 3M)		
Y (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).

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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

7.3 Test procedure

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

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

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

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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.

Above 1GHz test procedure as below:

- a. 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.

7.4 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.

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7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidtity:	24%
Pressure:	101 kPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 7	Polarization:	

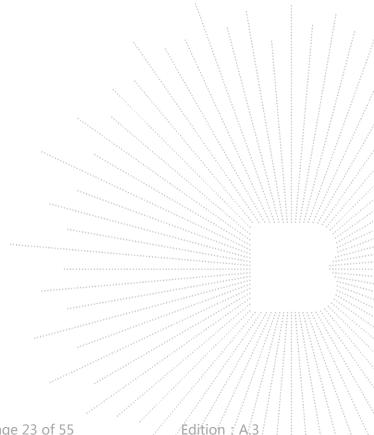
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

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.

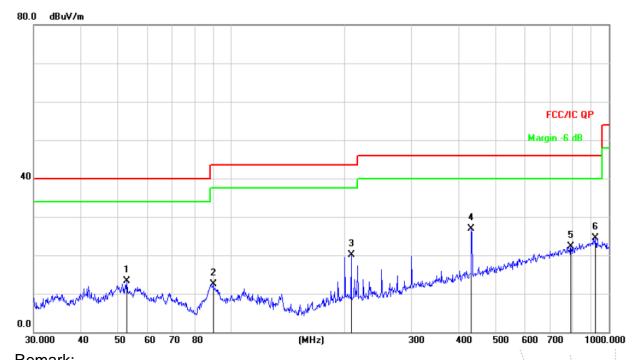


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Between 30MHz - 1GHz

Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 7	Polarization :	Horizontal
Test Model:	CXB02		

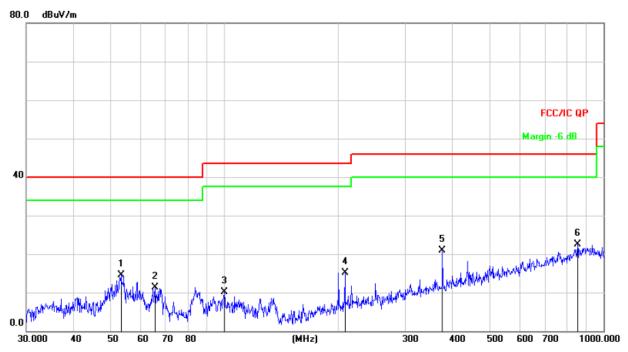


Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	_
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		52.9453	27.48	-14.25	13.23	40.00	-26.77	QP
2		89.5899	30.09	-17.57	12.52	43.50	-30.98	QP
3	2	207.8501	35.24	-15.10	20.14	43.50	-23.36	QP
4	* 4	432.5457	35.87	-8.99	26.88	46.00	-19.12	QP
5		793.3960	24.49	-2.10	22.39	46.00	-23.61	QP
6	(919.2866	24.76	-0.22	24.54	46.00	-21.46	QP



Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kpa	Test Voltage:	DC 3.7V
Test Mode:	Mode 7	Polarization :	Vertical
Test Model:	CXB02		



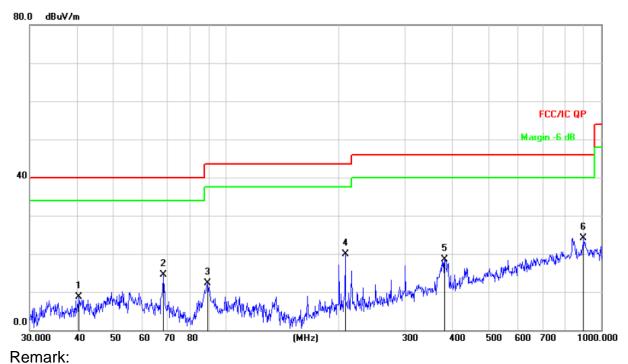
Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		53.3179	28.69	-14.27	14.42	40.00	-25.58	QP
2		65.5727	27.41	-16.10	11.31	40.00	-28.69	QP
3		99.8777	25.58	-15.49	10.09	43.50	-33.41	QP
4	2	207.8501	30.28	-15.10	15.18	43.50	-28.32	QP
5	3	375.9385	31.26	-10.35	20.91	46.00	-25.09	QP
6	* {	354.0247	23.33	-0.90	22.43	46.00	-23.57	QP



Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 7	Polarization:	Horizontal
Test Model:	CXB03		

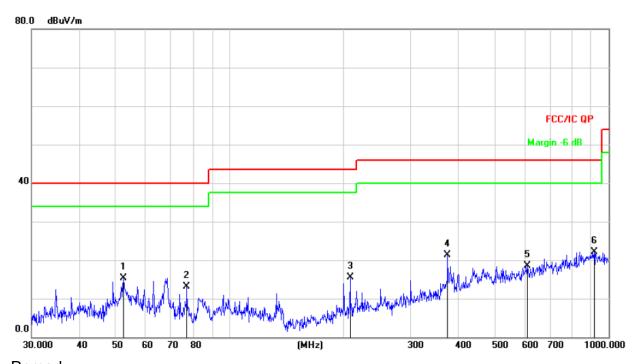


Factor = Antenna Factor + Cable Loss – Pre-amplifier.

-	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
_	1		40.5591	23.69	-14.89	8.80	40.00	-31.20	QP
_	2		68.1514	31.30	-16.76	14.54	40.00	-25.46	QP
_	3		89.2764	30.04	-17.64	12.40	43.50	-31.10	QP
_	4		207.8501	34.94	-15.10	19.84	43.50	-23.66	QP
-	5		382.5879	28.64	-10.16	18.48	46.00	-27.52	QP
-	6	*	896.9965	24.17	-0.08	24.09	46.00	-21.91	QP



Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kpa	Test Voltage:	DC 3.7V
Test Mode:	Mode 7	Polarization:	Vertical
Test Model:	CXB03		



Remark:

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

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	_
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		52.3912	29.61	-14.22	15.39	40.00	-24.61	QP
2		77.0505	32.00	-18.84	13.16	40.00	-26.84	QP
3		207.8501	30.60	-15.10	15.50	43.50	-28.00	QP
4		375.9385	31.58	-10.35	21.23	46.00	-24.77	QP
5		609.9217	23.32	-4.90	18.42	46.00	-27.58	QP
6	*	916.0687	22.34	-0.19	22.15	46.00	-23.85	QP



Between 1GHz – 25GHz

	GFSK(2Mbps)						
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
			Low chan	nel			
V	4804.00	52.31	-0.43	51.88	74.00	-22.12	PK
V	4804.00	44.29	-0.43	43.86	54.00	-10.14	AV
V	7206.00	41.33	8.31	49.64	74.00	-24.36	PK
V	7206.00	30.99	8.31	39.30	54.00	-14.70	AV
Н	4804.00	49.04	-0.43	48.61	74.00	-25.39	PK
Н	4804.00	38.27	-0.43	37.84	54.00	-16.16	AV
Н	7206.00	39.12	8.31	47.43	74.00	-26.57	PK
Н	7206.00	31.78	8.31	40.09	54.00	-13.91	AV
			Middle cha	nnel			
V	4880.00	49.91	-0.38	49.53	74.00	-24.47	PK
V	4880.00	42.33	-0.38	41.95	54.00	-12.05	AV
V	7320.00	41.66	8.83	50.49	74.00	-23.51	PK
V	7320.00	32.28	8.83	41.11	54.00	-12.89	AV
Н	4880.00	45.30	-0.38	44.92	74.00	-29.08	PK
Н	4880.00	34.90	-0.38	34.52	54.00	-19.48	AV
Н	7320.00	39.07	8.83	47.90	74.00	-26.10	PK
Н	7320.00	31.65	8.83	40.48	54.00	-13.52	AV
			High chan				
V	4960.00	52.77	-0.32	52.45	74.00	-21.55	PK
V	4960.00	44.69	-0.32	44.37	54.00	-9.63	AV
V	7440.00	44.22	9.35	53.57	74.00	-20.43	PK
V	7440.00	34.38	9.35	43.73	54.00	-10.27	AV
Н	4960.00	50.44	-0.32	50.12	74.00	-23.88	PK
Н	4960.00	40.63	-0.32	40.31	54.00	-13.69	AV
Н	7440.00	43.11	9.35	52.46	74.00	-21.54	NPK //
Н	7440.00	35.27	9.35	44.62	54.00	-9.38	AV

Remark:

- 1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss - Pre-amplifier. Over= Emission Level - Limit
- 2.If peak below the average limit, the average emission was no test.
- 3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5. This report only shows the worst case test data.

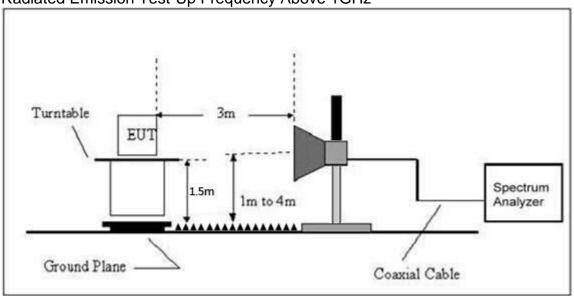
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8. RADIATED BAND EMISSION MEASUREMENT AND RESTRICTED BANDS OF OPERATION

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

ENVITO OT 10 (BI) (12B ENVIOLENT ME) (BOYOUR OCOUNT (2)						
FREQUENC	Limit (dBuV/m) (at 3M)					
Y (MHz)	PEAK	AVERAGE				
Above 1000	74	54				

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

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(2) The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a.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.

8.4 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.

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8.5 Test Result

	Polar Frequency (H/V) (MHz)		Reading Level	Correct Factor	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result	
	(11,77)	(****12)	(dBuV/m)	(dB)	PK	PK	AV		
	Low Channel 2402MHz								
	Н	2390.00	57.38	-6.70	50.68	74.00	54.00	PASS	
	Н	2400.00	50.10	-6.71	43.39	74.00	54.00	PASS	
	V	2390.00	56.75	-6.70	50.05	74.00	54.00	PASS	
GFSK	V	2400.00	48.59	-6.71	41.88	74.00	54.00	PASS	
(2Mbps)		High Channel 2480MHz							
	Н	2483.50	57.35	-6.79	50.56	74.00	54.00	PASS	
	Н	2485.00	49.60	-6.81	42.79	74.00	54.00	PASS	
	V	2483.50	55.11	-6.79	48.32	74.00	54.00	PASS	
	V	2485.00	47.00	-6.81	40.19	74.00	54.00	PASS	

Remark:

1. Emission Level = Meter Reading + Factor,

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

Over= Emission Level - Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5. This report only shows the worst case test data.

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9. POWER SPECTRAL DENSITY TEST

9.1 Block Diagram Of Test Setup

EUT	•	SPECTRUM
		ANALYZER

9.2 Limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

9.3 Test procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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9.5 Test Result

Temperature:	26℃	Relative Humidity:	54%
Test Mode :	GFSK 1Mbps	Test Voltage :	DC 3.7V

Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-13.349	8	PASS
2440 MHz	-12.756	8	PASS
2480 MHz	-12.931	8	PASS

CH01



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CH20



CH40





Temperature:	26℃	Relative Humidity:	54%
Test Mode :	GFSK 2Mbps	Test Voltage :	DC 3.7V

Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-16.951	8	PASS
2440 MHz	-16.335	8	PASS
2480 MHz	-17.123	8	PASS

CH01



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CH20



CH40





10. BANDWIDTH TEST

10.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 Limit

FCC Part15 (15.247), Subpart C				
Section Test Item Limit Frequency Range (MHz)			. , ,	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

- 1. Set RBW = 100 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.

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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10.5 Test Result

Temperature :	126 11	Relative Humidity:	54%
Test Mode :	GFSK 1Mbps	Test Voltage :	DC 3.7V

Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2402	0.674	500	Pass
2440	0.700	500	Pass
2480	0.678	500	Pass





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CH 20



CH 40





Temperature :	126%	Relative Humidity:	54%
Test Mode :	GFSK 2Mbps	Test Voltage :	DC 3.7V

Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2402	1.306	500	Pass
2440	1.366	500	Pass
2480	1.413	500	Pass

CH 01



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CH 20



CH 40





11. PEAK OUTPUT POWER TEST

11.1 Block Diagram Of Test Setup

POWER METER

11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test procedure

a. The EUT was directly connected to the Power meter

11.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

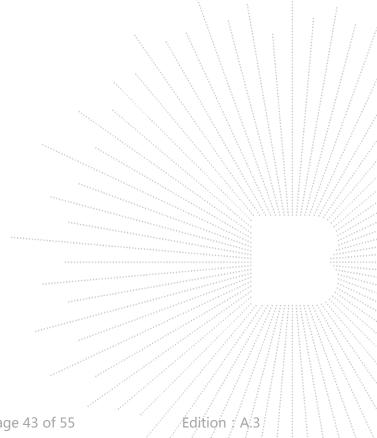
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11.5 Test Result

Temperature:	126 T	Relative Humidity:	54%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

	Frequency	Maximum Conducted Output Power(PK)	Conducted Output Power Limit
	(MHz)	(dBm)	dBm
	2402	-1.026	30
GFSK 1Mbps	2440	-0.187	30
·	2480	-0.389	30
	2402	-1.004	30
GFSK 2Mbps	2440	-0.186	30
	2480	-0.386	30



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12. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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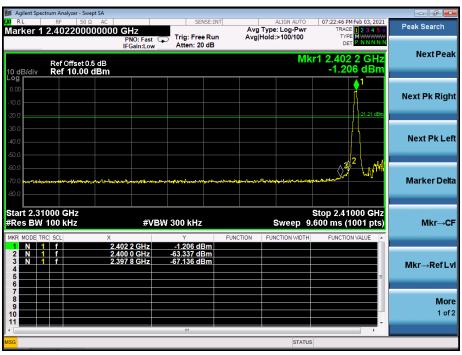


12.5 Test Result

Report No.: BCTC2102142931E

Temperature :	1261	Relative Humidity:	54%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

GFSK 1Mbps: Band Edge, Left Side

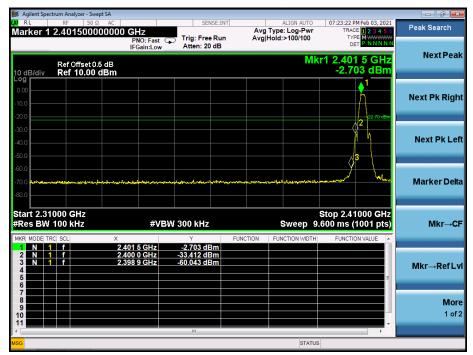


GFSK 1Mbps: Band Edge, Right Side





GFSK 2Mbps: Band Edge, Left Side



GFSK 2Mbps: Band Edge, Right Side

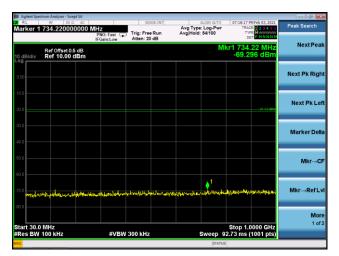




CONDUCTED EMISSION MEASUREMENT GFSK 1Mbps

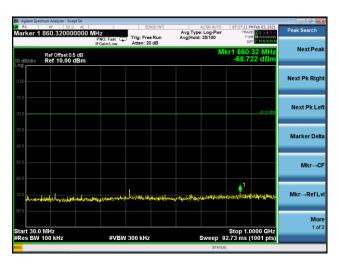
Report No.: BCTC2102142931E

-SK 1Mbps Low Channel 2402MHz

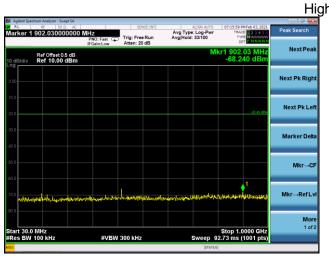




Middle Channel 2440MHz





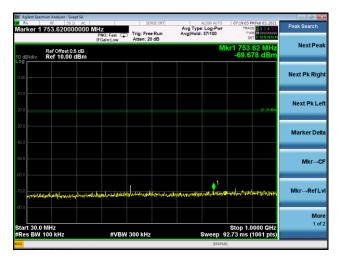






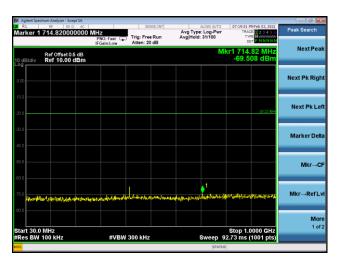
GFSK 2Mbps

Low Channel 2402MHz

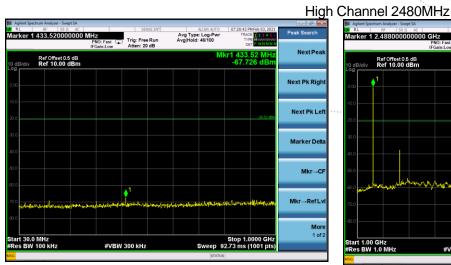




Middle Channel 2440MHz









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13. ANTENNA REQUIREMENT

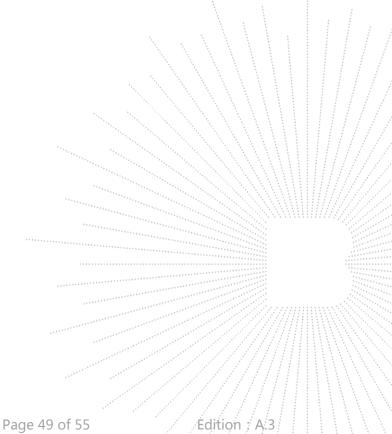
13.1 Limit

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.

13.2 Test Result

The EUT antenna is Internal antenna, the antenna gain is -2.27dBi,fulfill the requirement of this section.



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14. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



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EUT Photo 3



EUT Photo 4



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15. EUT TEST SETUP PHOTOGRAPHS

Conducted emissions





CXB03



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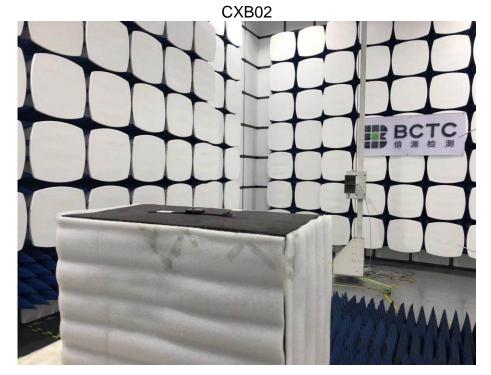
Radiated Measurement Photos

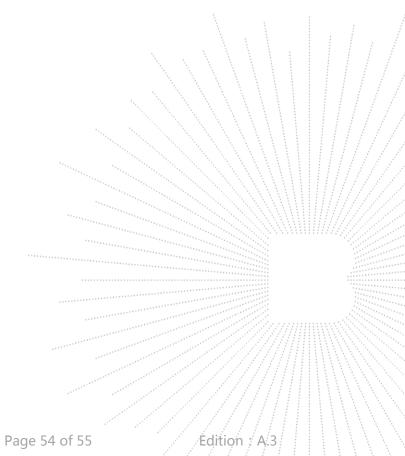




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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

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E-Mail: bctc@bctc-lab.com.cn

**** END ****

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