

TEST REPORT

Report No.: BCTC2204350679-1E

Applicant: ShenZhen IDMIX Innovative Products Co., LTD

Product Name: Night light with Wireless charging base

Model/Type Ref.: D6

Tested Date: 2022-04-09 to 2022-04-18

Issued Date: 2022-04-19

Shenzhen BETC Testing Co., Ltd.



No.: BCTC/RF-EMC-005 Page 1 of 26 / / / / Edition: A.4



FCC ID: 2ARCW-D6

Product Name: Night light with Wireless charging base

Trademark: IDMIX

Model/Type Ref.: D6

Prepared For: ShenZhen IDMIX Innovative Products Co., LTD

Address: Room 1401, 3D Building, TianAnYunGu, XueGang Road 2018#, Bantian Street,

Longgang District, Shenzhen, China

Manufacturer: ShenZhen IDMIX Innovative Products Co., LTD

Address: Room 1401, 3D Building, TianAnYunGu, XueGang Road 2018#, Bantian Street,

Longgang District, Shenzhen, China

Prepared By: 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

Sample Received Date: 2022-04-09

Sample tested Date: 2022-04-09 to 2022-04-18

Issue Date: 2022-04-19

Report No.: BCTC2204350679-1E

Test Standards: FCC Part15.209 ANSI C63.10-2013

Test Results: PASS

Tested by:

Eric Yang/Project Handler

Approved by:

Zero Zhou/Reviewer

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No.: BCTC/RF-EMC-005 Page 2 of 26 / / / Edition: A.4



Table Of Content

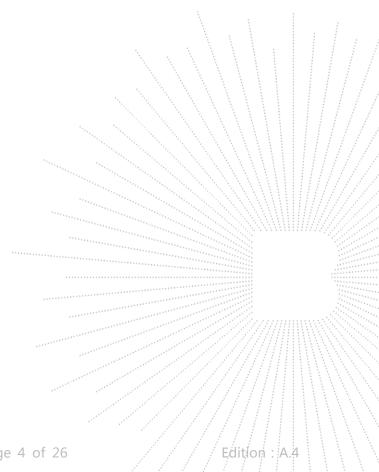
	lest Report Declaration	Page	
1.	Version		
2.	Test Summary		
3.	Measurement Uncertainty		
4.	Product Information And Test Setup		
4.1	Product Information		
4.2	Support Equipment		
4.3	Test Setup Configuration		
4.4	Test Mode		
5.	Test Facility And Test Instrument Used		
5.1	Test Facility		
5.2	Test Instrument Used		
6.	Conducted Emissions		11
6.1	Block Diagram Of Test Setup		11
6.2	Limit		
6.3	Test Procedure		11
6.4	EUT Operating Conditions		12
6.5	Test Result		13
7.	Radiated Emissions		15
7.1	Block Diagram Of Test Setup		15
7.2	Limit		16
7.3	Test Procedure		16
7.4	Test Result		17
8.	Bandwidth Test	<u> </u>	20
9.	Antenna Requirements		22
10.	EUT Photographs	\	23
11.	EUT Test Setup Photographs	<u>\ \ \ </u>	24
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2204350679-1E	2022-04-19	Original	Valid



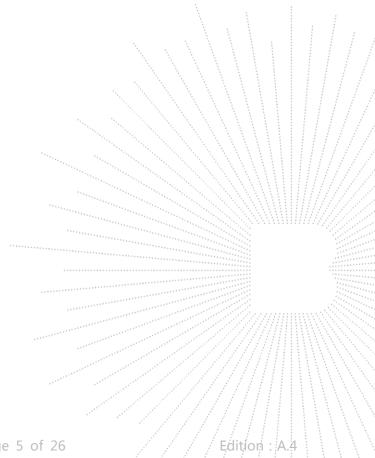
No.: BCTC/RF-EMC-005 Page 4 of 26 // Edition: A.4



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	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	Antenna Requirement	15.203	PASS



No.: BCTC/RF-EMC-005 Page 5 of 26 // Edition: A.4



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 chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59℃

No.: BCTC/RF-EMC-005 Page 6 of 26 / / Edition: A.4



4. Product Information And Test Setup

4.1 Product Information

Model/Type Ref.: D6
Model differences: N/A

Product Description: Night light with Wireless charging base

Operation Frequency: 115kHz-205kHz
Antenna installation: loop coil antenna

Ratings: Input: DC 5V/2A, 9V/2AFrom adapter

Output: Wireless charger 5W, 7.5W, 10W

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-2	Adapter	N/A	CD122	N/A	Auxiliary
E-3	Dummy load	N/A	DL01	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8M	USB cable unshielded

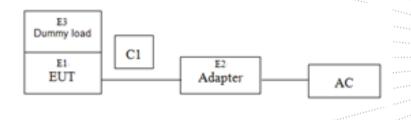
Notes:

- 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.

4.3 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





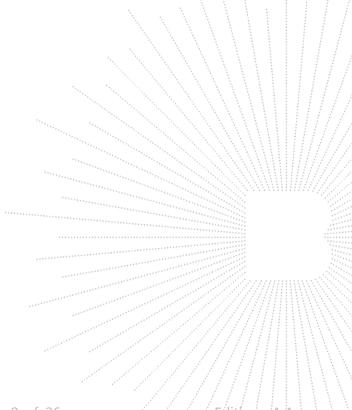
4.4 Test Mode

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

<u> </u>	
Test Modes 1	Charging (10W)
Test Modes 2	Charging (5W)

Note:

All test mode were tested and passed, only Conducted Emissions, Radiated Emissions shows (*) is the worst case mode which were recorded in this report.



No.: BCTC/RF-EMC-005 Page 8 of 26 / / / Edition: A.4



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	May 28, 2021	May 27, 2022		
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\		
Attenuator	\	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022		

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	1	May 28, 2021	May 27, 2022

No.: BCTC/RF-EMC-005 Page 9 of 26 / / Edition: A.4



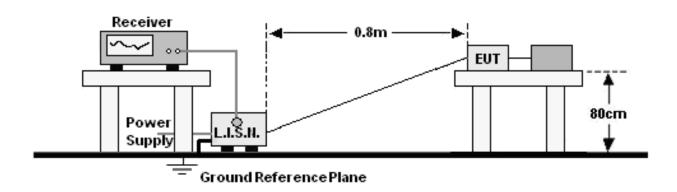
Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenn(18GHz -40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022
RF cables1(9kHz- 30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-00 08	May 28, 2021	May 27, 2022
RF cables2(30MH z-1GHz)	Huber+Suhnar	30MHz-1GH z	1486150	May 28, 2021	May 27, 2022
RF cables3(1GHz- 40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A		May 28, 2021	May 27, 2022
Signal Analyzer20kHz -26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE		1

No.: BCTC/RF-EMC-005 Page 10 of 26 // Edition A.4



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

EDEOLIENCY (MH-7)	Limit (d	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

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).

No.: BCTC/RF-EMC-005 Page 11 of 26 / / / Edition | A.4

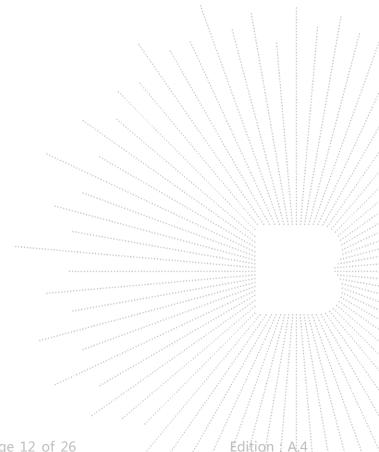
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



6.4 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.

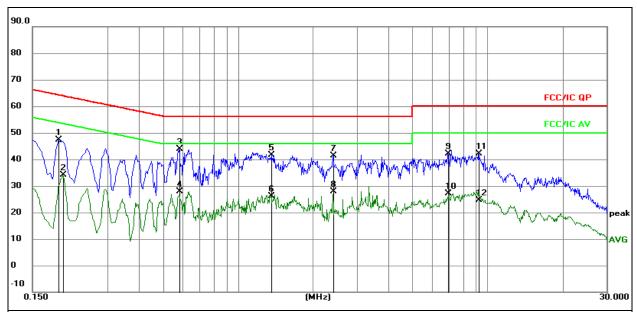


No.: BCTC/RF-EMC-005 Page 12 of 26 // Edition A.4



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



Remark:

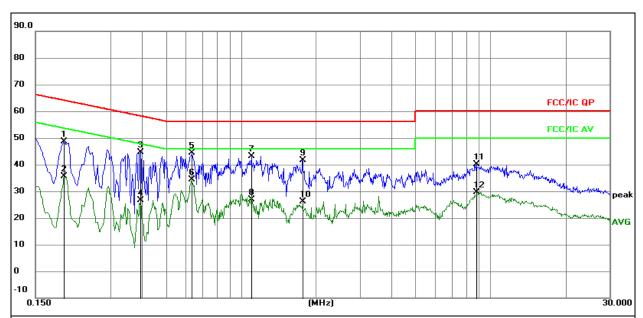
- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement=Reading Level+ Correct Factor

- 4. Over=Measurement-Limit

<u> </u>							
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1905	27.72	19.60	47.32	64.01	-16.69	QP
2	0.1995	14.48	19.60	34.08	53.63	-19.55	AVG
3 *	0.5820	24.30	19.61	43.91	56.00	-12.09	QP
4	0.5820	8.31	19.61	27.92	46.00	-18.08	AVG
5	1.3605	21.99	19.62	41.61	56.00	-14.39	QP
6	1.3605	6.43	19.62	26.05	46.00	-19.95	AVG
7	2.4135	21.63	19.63	41.26	56.00	-14.74	QP
8	2.4135	8.13	19.63	27.76	46.00	-18.24	AVG
9	6.9360	22.44	19.73	42.17	60.00	-17.83	QP
10	6.9360	7.35	19.73	27.08	50.00	-22.92	AVG
11	9.2355	22.26	19.77	42.03	60.00	-17.97	QP
12	9.2355	4.79	19.77	24.56	50.00	-25.44	AVG



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement=Reading Level+ Correct Factor
- 4. Over=Measurement-Limit

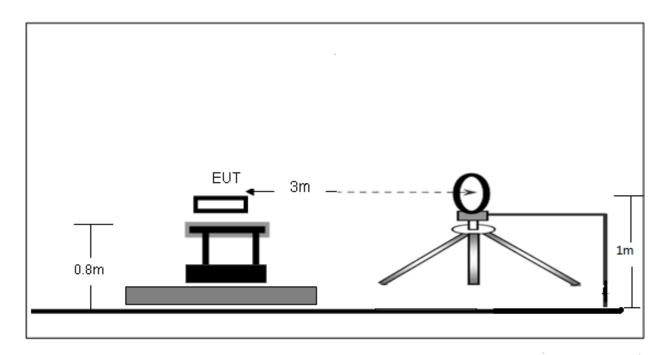
1k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
MHz		dB	dBuV	dBuV	dB	Detector
0.1945	29.02	19.60	48.62	63.84	-15.22	QP
0.1945	16.12	19.60	35.72	53.84	-18.12	AVG
0.3955	25.07	19.61	44.68	57.95	-13.27	QP
0.3955	7.07	19.61	26.68	47.95	-21.27	AVG
0.6338	24.81	19.61	44.42	56.00	-11.58	QP
0.6338	14.71	19.61	34.32	46.00	-11.68	AVG
1.0997	23.47	19.62	43.09	56.00	-12.91	QP
1.0997	7.38	19.62	27.00	46.00	-19.00	AVG
1.7623	22.00	19.62	41.62	56.00	-14.38	QP
1.7623	6.45	19.62	26.07	46.00	-19.93	AVG
8.7757	20.24	19.77	40.01	60.00	-19.99	QP
8.7757	9.74	19.77	29.51	50.00	-20.49	AVG
	MHz 0.1945 0.1945 0.3955 0.3955 0.6338 0.6338 1.0997 1.7623 1.7623 8.7757	MHz 0.1945 29.02 0.1945 16.12 0.3955 25.07 0.3955 7.07 0.6338 24.81 0.6338 14.71 1.0997 23.47 1.0997 7.38 1.7623 22.00 1.7623 6.45 8.7757 20.24	MHz dB 0.1945 29.02 19.60 0.1945 16.12 19.60 0.3955 25.07 19.61 0.3955 7.07 19.61 0.6338 24.81 19.61 0.6338 14.71 19.61 1.0997 23.47 19.62 1.7623 22.00 19.62 1.7623 6.45 19.62 8.7757 20.24 19.77	Mk. Freq. Level Factor ment MHz dB dBuV 0.1945 29.02 19.60 48.62 0.1945 16.12 19.60 35.72 0.3955 25.07 19.61 44.68 0.3955 7.07 19.61 26.68 0.6338 24.81 19.61 44.42 0.6338 14.71 19.61 34.32 1.0997 23.47 19.62 43.09 1.0997 7.38 19.62 27.00 1.7623 22.00 19.62 41.62 1.7623 6.45 19.62 26.07 8.7757 20.24 19.77 40.01	Mk. Freq. Level Factor ment Limit MHz dB dBuV dBuV dBuV 0.1945 29.02 19.60 48.62 63.84 0.1945 16.12 19.60 35.72 53.84 0.3955 25.07 19.61 44.68 57.95 0.3955 7.07 19.61 26.68 47.95 0.6338 24.81 19.61 44.42 56.00 0.6338 14.71 19.61 34.32 46.00 1.0997 23.47 19.62 43.09 56.00 1.7623 22.00 19.62 27.00 46.00 1.7623 6.45 19.62 26.07 46.00 8.7757 20.24 19.77 40.01 60.00	Mk. Freq. Level Factor ment Limit Over MHz dB dBuV dBuV dB 0.1945 29.02 19.60 48.62 63.84 -15.22 0.1945 16.12 19.60 35.72 53.84 -18.12 0.3955 25.07 19.61 44.68 57.95 -13.27 0.3955 7.07 19.61 26.68 47.95 -21.27 0.6338 24.81 19.61 44.42 56.00 -11.58 0.6338 14.71 19.61 34.32 46.00 -11.68 1.0997 23.47 19.62 43.09 56.00 -12.91 1.0997 7.38 19.62 27.00 46.00 -19.00 1.7623 22.00 19.62 41.62 56.00 -14.38 1.7623 6.45 19.62 26.07 46.00 -19.93 8.7757 20.24 19.77 40.01 60.00 -19.99



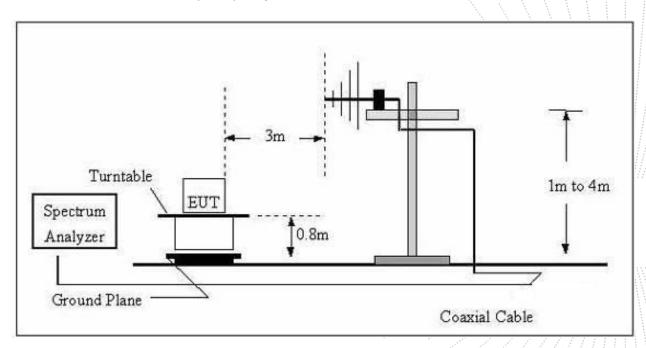
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



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



No.: BCTC/RF-EMC-005 Page 15 of 26 / / Edition A.4



7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205								
	Frequency Field strength Limit (MHz) (microvolt/meter) (dBuV/m) Remark		Remark	Measurement distance (m)					
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz 24000/F(kHz)		-	30					
	1.705MHz-30MHz	30	-	-	30				
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3				
	88MHz~216MHz	150	43.5	Quasi-peak	3				
	216MHz~960MHz	200	46.0	Quasi-peak	3				
	960MHz~1000MHz	500	54.0	Quasi-peak	3				
	A1 1000MI	500	54.0	Average	3				
	Above 1000MHz		74.0	Peak	3				

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

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 chamber. 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.

No.: BCTC/RF-EMC-005 Page 16 of 26 / / / Edition: A.4



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.

7.4 Test Result

9kHz-30MHz

Temperature: 26℃		Relative Humidity:	24%	
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz	
Test Mode:	Charging	Polarization :		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20.00.0. 1,00
22.12	64.66	20.15	84.81	140.71	-55.90	PK
22.12	40.75	20.15	60.90	120.71	-59.81	AV
60.80	52.85	20.33	73.18	131.93	-58.75	PK
60.80	38.74	20.33	59.07	111.93	-52.86	AV
150.88	54.59	20.55	75.14	124.03	-48.89	PK
150.88	47.15	20.55	67.70	104.03	-36.33	AV
519.35	25.12	20.64	45.76	73.30	-27.54	QP
757.56	29.54	21.26	50.80	70.02	-19.22	QP
1243.38	18.04	22.32	40.36	65.71	-25.35	QP

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

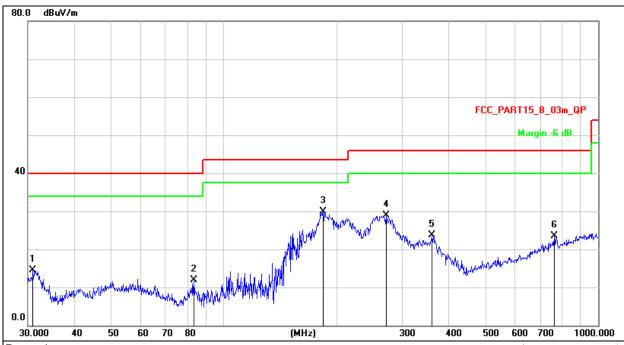
Margin = Emission Level- Limit.

No.: BCTC/RF-EMC-005 Page 17 of 26 / / / Edition : Al-



Between 30MHz - 1GHz

Temperature: 26°C		Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 1	Polarization :	Horizontal



Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		30.9619	32.71	-18.30	14.41	40.00	-25.59	QP
2		83.2298	31.75	-19.83	11.92	40.00	-28.08	QP
3	*	184.4898	46.55	-16.70	29.85	43.50	-13.65	QP
4	2	272.2776	43.19	-14.25	28.94	46.00	-17.06	QP
5	;	360.4476	35.73	-12.00	23.73	46.00	-22.27	QP
6	7	763.3757	26.05	-2.62	23.43	46.00	-22.57	QP



Temperature: 26℃		Relative Humidity:	54%	
Pressure:	101 kpa	Test Voltage:	AC 120V/60Hz	
Test Mode:	Mode 1	Polarization :	Vertical	



Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	30.3173	53.77	-18.40	35.37	40.00	-4.63	QP
2		52.2079	40.69	-15.56	25.13	40.00	-14.87	QP
3		84.1100	45.04	-19.69	25.35	40.00	-14.65	QP
4		187.7530	49.37	-16.44	32.93	43.50	-10.57	QP
5	:	263.8190	47.30	-14.40	32.90	46.00	-13.10	QP
6	•	429.5228	27.43	-10.10	17.33	46.00	-28.67	QP



8. Bandwidth Test

- 1. Set RBW = 1%~5% OBW.
- 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 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP

EUT SPECTRUM ANALYZER

No.: BCTC/RF-EMC-005 Page 20 of 26 / / / Edition (A.4)



Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa		

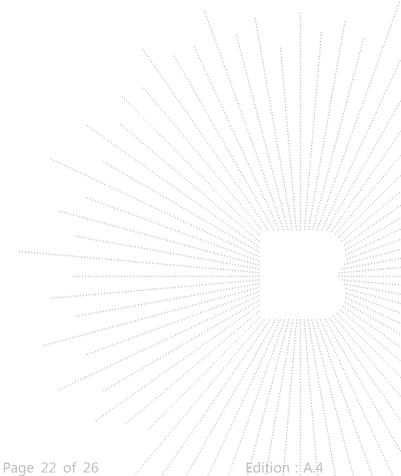




9. Antenna Requirements

For intentional device, according to FCC 47 CFR Section 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna used for this product is Inductive loop coil antenna.



No.: BCTC/RF-EMC-005 Page 22 of 26 / / / Edition: A

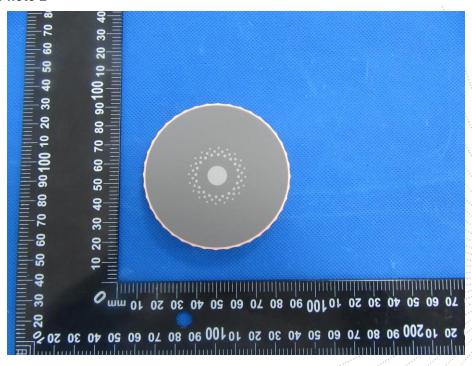


10. EUT Photographs

EUT Photo 1



EUT Photo 2



No.: BCTC/RF-EMC-005 Page 23 of 26 / / / Edition A.4

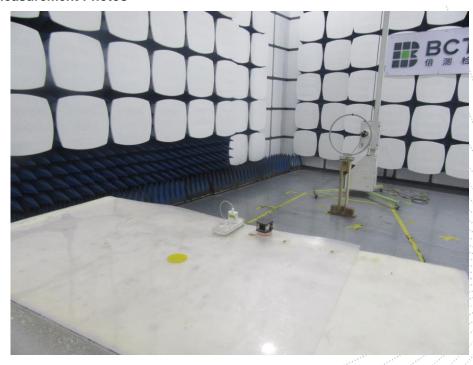


11. EUT Test Setup Photographs

Conducted emissions

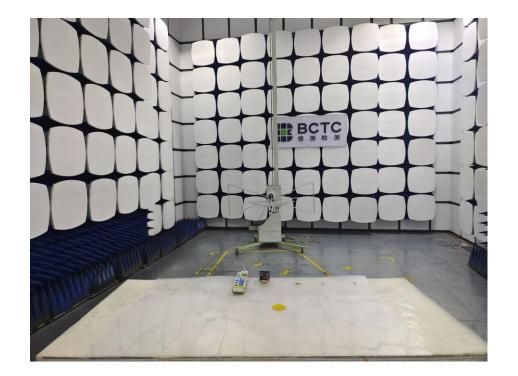


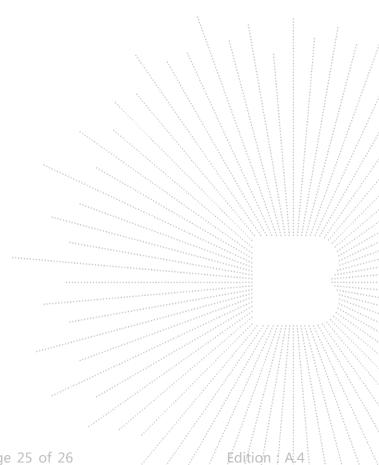
Radiated Measurement Photos



No.: BCTC/RF-EMC-005 Page 24 of 26 // Edition A.4







No.: BCTC/RF-EMC-005 Page 25 of 26 // Edition A.4



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

Website: http://www.chnbctc.com

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

**** END ****

No.: BCTC/RF-EMC-005 Page 26 of 26 / / / Edition : A.4