

# **TEST REPORT**

Report No.: BCTC2304364669-1E

Applicant: Shenzhen Joway Power Supply Co., Ltd.

Product Name: Magnetic Wireless Power Bank

Model/Type Ref.: PB5

Tested Date: 2023-04-07 to 2023-04-14

Issued Date: 2023-04-14

Shenzhen BCTC Testing Co., Ltd.



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# FCC ID: 2AEZ4-PB5

Product Name: Magnetic Wireless Power Bank

Trademark: N/A

Model/Type Ref.: PB5

Prepared For: Shenzhen Joway Power Supply Co., Ltd.

Address: Blog 10th & 11th, Antuoshan High-Tech Industrial Park, Shajing Street,

Shenzhen China

Manufacturer: Shenzhen Joway Power Supply Co., Ltd.

Address: Blog 10th & 11th, Antuoshan High-Tech Industrial Park, Shajing Street,

Shenzhen China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,

Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2023-04-07

Sample tested Date: 2023-04-07 to 2023-04-14

Issue Date: 2023-04-14

Report No.: BCTC2304364669-1E

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

Test Results: PASS

Tested by:

Brave Demy

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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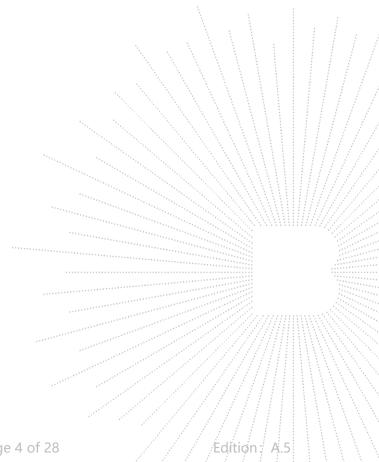
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(Note: N/A Means Not Applicable)



# 1. Version

Report No.	Issue Date	Description	Approved
BCTC2304364669-1E	2023-04-14	Original	Valid



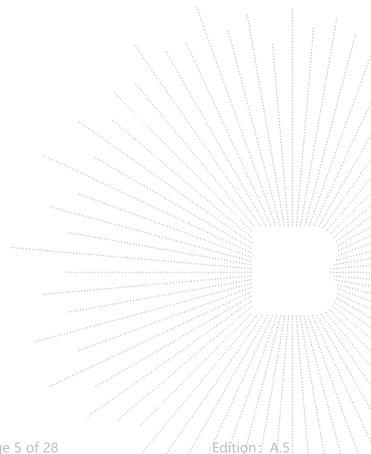
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# 2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	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 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°C

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# 4. Product Information And Test Setup

## 4.1 Product Information

Model/Type Ref.: PB5
Model differences: N/A

Product Description: Magnetic Wireless Power Bank

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

USB-C Input: 5V/3A;9V/2A

USB-A Output:5V/3A

Ratings: USB-C Output:5V/3A,9V2.22A,12V1.5A

Lighting Output:5V2.4A,9V2.22A Wireless Output:5W,7.5W,10W,15W

Hardware Version: N/A
Software Version: N/A

#### Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1			Applicant		Yes/No	With a ferrite ring in mid Detachable
2			встс		Yes/No	

# 4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	Wireless charging load			1-1//	auxiliary
2.	Adapter				auxiliary

#### 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.

## 4.4 Test Mode

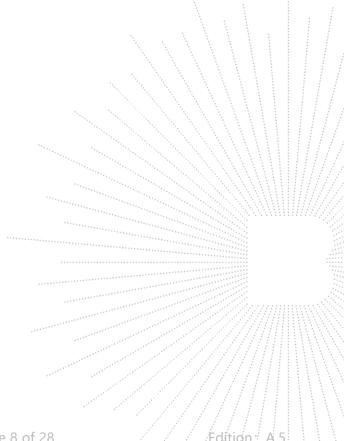
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

AC Mode	Test Modes 1	Charging +Wireless(5W)			
	Test Modes 2	Wireless Charging(5W) +Type-C Output(5V1.4A)			
	Test Modes 3	Wireless Charging 5W			
DC Mode	Test Modes 4	Wireless Charging 7.5W			
	Test Modes 5	Wireless Charging 10W			
	Test Modes 6	Wireless Charging 15W			

#### 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.

Only 5W wireless charging output is supported in AC mode.



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#### 5. **Test Facility And Test Instrument Used**

#### **Test Facility** 5.1

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, Zhancheng, 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 A2LA certificate registration number is: CN1212 ISED Registered No.: 23583

ISED CAB identifier: CN0017

# 5.2 Test Instrument Used

Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	1	1
Attenuator	1	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	1	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	***	May 24, 2022	May 23, 2023
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023

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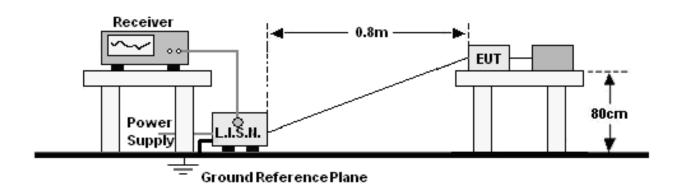
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	1	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	1	\ :

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# 6. Conducted Emissions

# 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

FREQUENCY (MHz)	Limit (	dBuV)
PREQUENCY (MIDZ)	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).

# 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.

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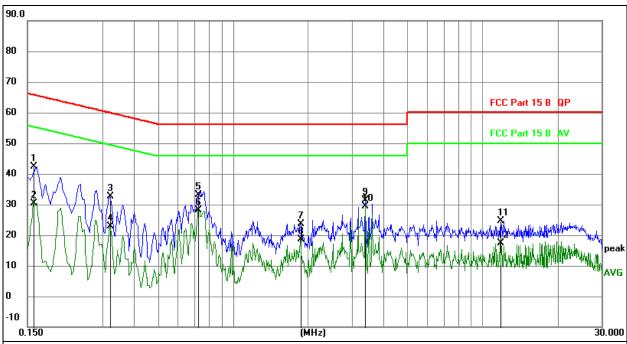
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

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



# 6.5 Test Result

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



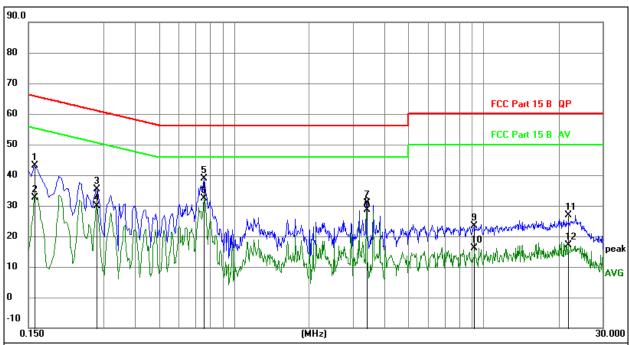
#### Remark:

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

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1590	22.57	19.69	42.26	65.52	-23.26	QP
2	0.1590	10.81	19.69	30.50	55.52	-25.02	AVG
3	0.3209	12.80	19.77	32.57	59.68	-27.11	QP
4	0.3209	3.14	19.77	22.91	49.68	-26.77	AVG
5	0.7260	13.33	19.74	33.07	56.00	-22.93	QP
6	0.7260	8.33	19.74	28.07	46.00	-17.93	AVG
7	1.8645	3.76	19.86	23.62	56.00	-32.38	QP
8	1.8645	-1.32	19.86	18.54	46.00	-27.46	AVG
9	3.3990	11.37	20.03	31.40	56.00	-24.60	QP
10 *	3.3990	9.28	20.03	29.31	46.00	-16.69	AVG
11	11.7555	4.38	20.28	24.66	60.00	-35.34	QP
12	11.7555	-3.02	20.28	17.26	50.00	-32.74	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

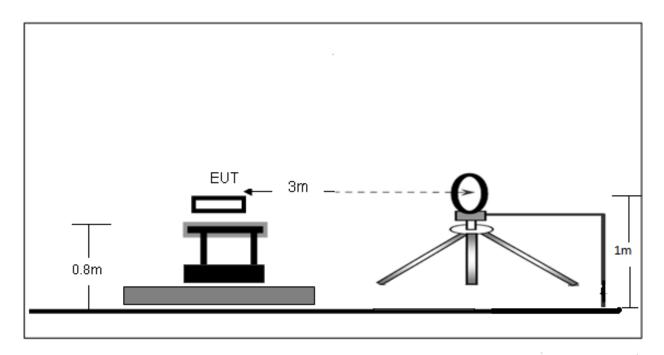
No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detecto
1	0.1582	23.37	19.69	43.06	65.56	-22.50	QP
2	0.1582	13.01	19.69	32.70	55.56	-22.86	AVG
3	0.2803	15.72	19.78	35.50	60.81	-25.31	QP
4	0.2803	9.98	19.78	29.76	50.81	-21.05	AVG
5	0.7589	19.11	19.74	38.85	56.00	-17.15	QP
6 *	0.7589	12.74	19.74	32.48	46.00	-13.52	AVG
7	3.3994	10.82	20.03	30.85	56.00	-25.15	QP
8	3.3994	8.56	20.03	28.59	46.00	-17.41	AVG
9	9.2043	3.14	20.25	23.39	60.00	-36.61	QP
10	9.2043	-4.22	20.25	16.03	50.00	-33.97	AVG
11	21.8303	6.31	20.51	26.82	60.00	-33.18	QP
12	21.8303	-3.32	20.51	17.19	50.00	-32.81	AVG



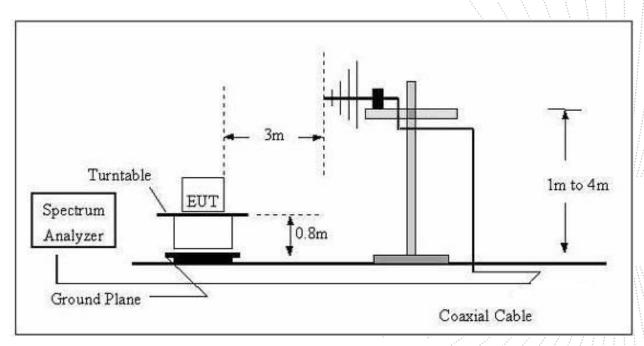
# 7. Radiated Emissions

# 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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#### 7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205									
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	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.

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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:

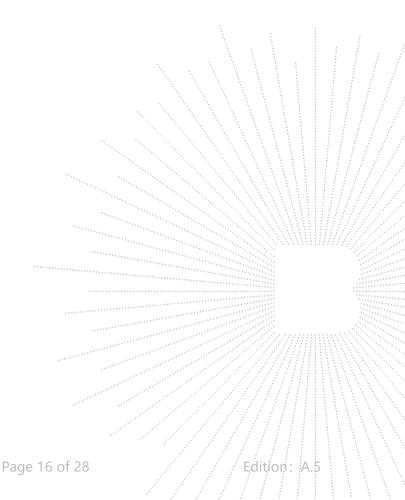
- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel. Note:

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

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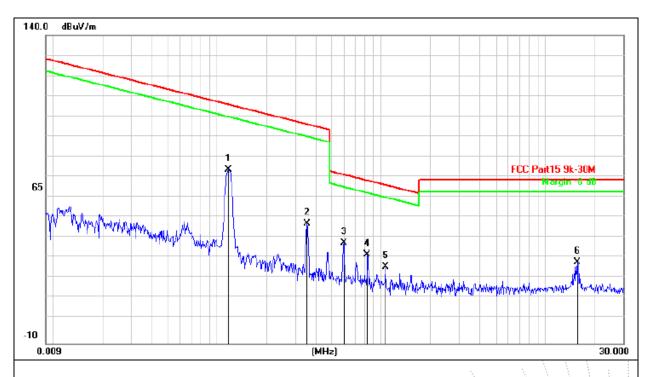
Note: It only shows the worst mode 6, full load.





## 9kHz-30MHz

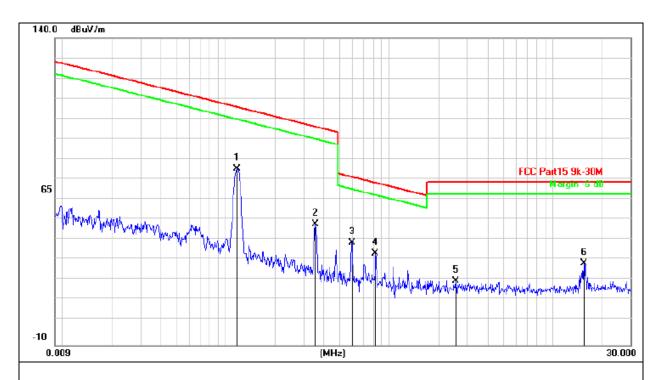
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 3.7V
Test Mode:	Mode 6	Polarization :	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	0.1178	84.89	-10.15	74.74	106.1	-31.44	peak
2		0.3549	58.75	-10.27	48.48	96.60	-48.12	peak
3		0.5916	49.30	-10.26	39.04	72.17	-33.13	peak
4		0.8251	43.50	-10.24	33.26	69.29	-36.03	peak
5		1.0610	37.69	-10.23	27.46	67.11	-39.65	peak
6		15.8057	38.74	-9.11	29.63	69.54	-39.91	peak
							******	



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



			Reading	Correct	Measure-			
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	0.1178	86.04	-10.15	75.89	106.1	-30.29	peak
2		0.3548	59.42	-10.27	49.15	96.60	-47.45	peak
3		0.5916	50.26	-10.26	40.00	72.17	-32.17	peak
4		0.8250	45.16	-10.24	34.92	69.29	-34.37	peak
5		2.5684	31.54	-10.08	21.46	69.54	-48.08	peak
6		15.5512	39.01	-9.10	29.91	69.54	-39.63	peak
						***********		3533

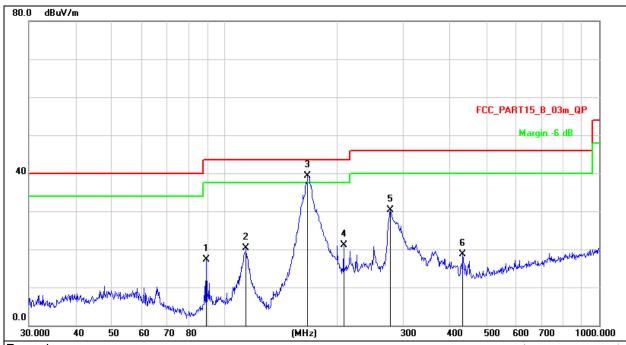
## Note:Remark:

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



## Between 30MHz - 1GHz

Temperature: 26℃ F		Relative Humidity:	54%	
Pressure:	101 kPa	Test Voltage :	DC 3.7V	
Test Mode:	Mode 6	Polarization :	Horizontal	



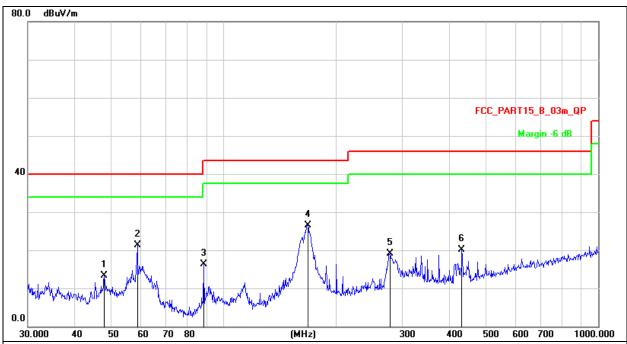
#### Remark:

- 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		89.2764	36.63	-19.40	17.23	43.50	-26.27	QP
2	1	14.1138	38.91	-18.69	20.22	43.50	-23.28	QP
3	* 1	66.6514	59.21	-19.82	39.39	43.50	-4.11	QP
4	2	07.8501	38.21	-17.13	21.08	43.50	-22.42	QP
5	2	77.0935	45.42	-15.15	30.27	46.00	-15.73	QP
6	4	32.5457	30.49	-11.74	18.75	46.00	-27.25	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 6	Polarization :	Vertical



#### Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9940	29.13	-15.82	13.31	40.00	-26.69	QP
2		58.8185	38.23	-16.91	21.32	40.00	-18.68	QP
3		88.3421	35.95	-19.62	16.33	43.50	-27.17	QP
4	*	167.8243	46.18	-19.74	26.44	43.50	-17.06	QP
5	2	278.0668	34.24	-15.13	19.11	46.00	-26.89	QP
6	4	432.5457	31.77	-11.74	20.03	46.00	-25.97	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

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Те	mperature :	26 ℃	Relative Humidity:	54%
Pre	essure:	101kPa		

Frequency (KHz)	20dB bandwidth (Hz)	Result	
118.8	33	Pass	

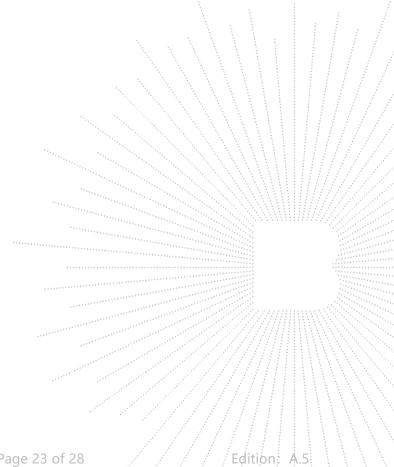




# 9. Antenna Requirements

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.



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# 10. EUT Photographs

#### **EUT Photo 1**



#### **EUT Photo 2**



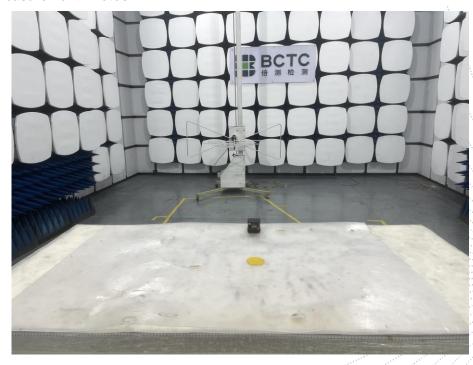


# 11. EUT Test Setup Photographs

# **Conducted emissions Photo**

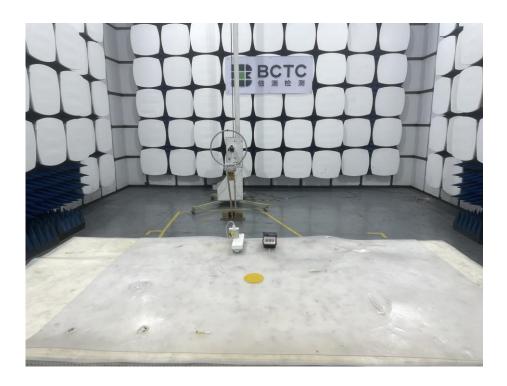


# **Radiated Measurement Photos**



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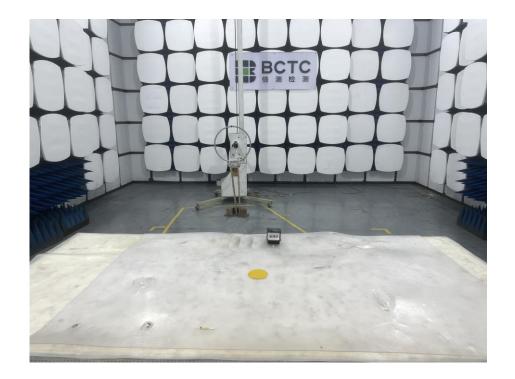


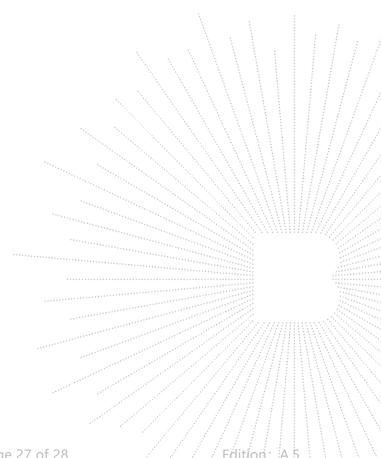




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#### **STATEMENT**

- 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 the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.
- 8. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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\*\*\*\* END \*\*\*\*

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