

# **TEST REPORT**

Report No.: BCTC2202518246-1E

Applicant: shenzhenshiqianyidianzishangwukejiyouxiangongsi

Product Name: Multifunctional 4 in 1 charging stand

Model/Type

reference:

CE48B

Tested Date: 2022-02-16 to 2022-02-21

Issued Date: 2022-02-21





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



## FCC ID:2A4T2-CE48B

**Product Name:** Multifunctional 4 in 1 charging stand

Trademark: **CEREECOO** 

CE48B Model/Type reference:

TS-291A4, CR48S, CR48SG, CR48W

Prepared For: shenzhenshiqianyidianzishangwukejiyouxiangongsi

guangdong shenzhenshilongganggunanwanjiedaoxialilangshegu Address:

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Manufacturer: shenzhenshiqianyidianzishangwukejiyouxiangongsi

guangdong shenzhenshilongganggunanwanjiedaoxialilangshegu Address:

xiangyelu7haoganghonggongyequ1haochangfang3lou3A12

Prepared By: Shenzhen BCTC Testing Co., Ltd.

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

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

Sample Received Date: 2022-02-16

Sample tested Date: 2022-02-16 to 2022-02-21

Issue Date: 2022-02-21

BCTC2202518246-1E Report No.:

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

**Test Results PASS** 

Tested by:

Kelsey Tan/ 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.



## **Table Of Content**

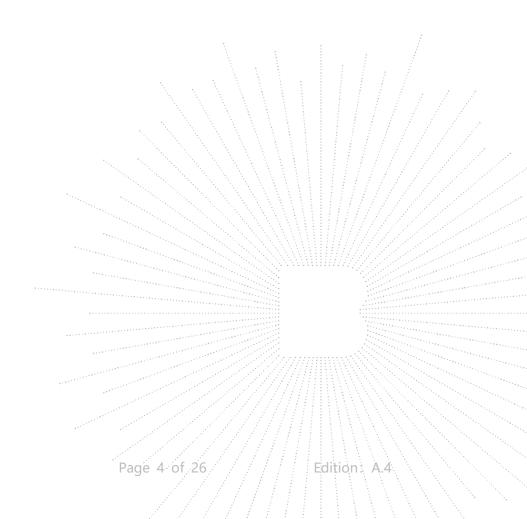
Test	t Report Declaration	Page
1.	Version	
2.	Test Summary	
3.	Measurement Uncertainty	
4.	Product Information And Test Setup	7
4.1	Product Information	7
4.2	Test Setup Configuration	7
4.3	Support Equipment	8
4.5	Test Mode	8
5.	Test Facility And Test Instrument Used	9
5.1	Test Facility	
5.2	Test Instrument Used	9
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	11
6.5	Test Result	12
7.	Radiated Emissions	
7.1	Block Diagram Of Test Setup	14
7.2	Limit	15
7.3	Test procedure	15
7.4	Test Result	17
8.	Bandwidth Test	20
8.1	Test Procedure	20
8.2	Test Setup	20
8.3	Test Result	21
9.	Antenna Requirements	22
9.1	Limit	22
9.2	Test Result	
10.	EUT Photographs	23
11.	EUT Test Setup Photographs	24

(Note: N/A Means Not Applicable)



## 1. Version

Report No.	Issue Date	Description	Approved
BCTC2202518246-1E	2022-02-21	Original	Valid

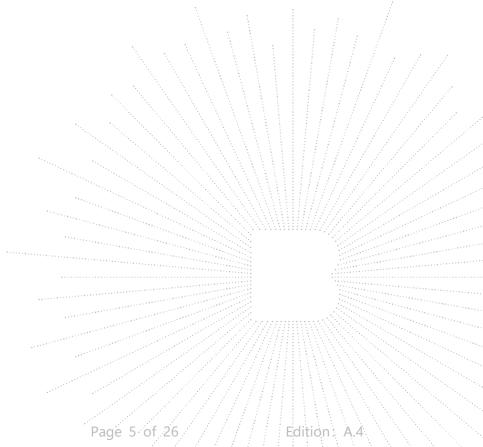




#### **Test Summary** 2.

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

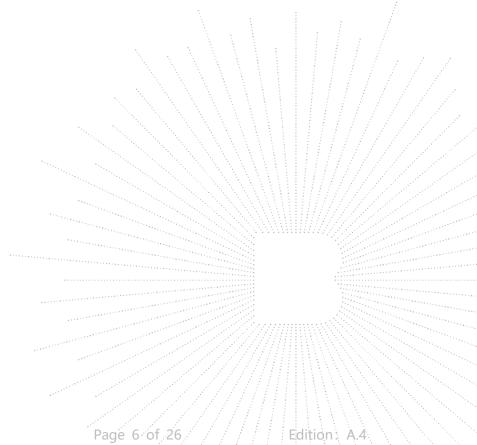




#### **Measurement Uncertainty** 3.

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(30MHz-1GHz)	U=4.3dB
2	Conducted Emission (150kHz-30MHz)	U=3.2dB
3	humidity uncertainty	U=5.3%
4	Temperature uncertainty	U=0.59°C





## 4. Product Information And Test Setup

#### 4.1 Product Information

Model/Type reference: CE48B

TS-291A4, CR48S, CR48SG, CR48W

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

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

Product Description: Multifunctional 4 in 1 charging stand

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

Input: DC9V/2A-9V3A

Ratings: Output: Earphone: DC5V/1A(Max)

Phone wireless charging pad:DC9V/1.1A(Max)

Input: AC 110V~240V 50-60Hz 0.55A

Adapter information: Output:USB-A port1: DC12V1.5A/9V2A/5V3A

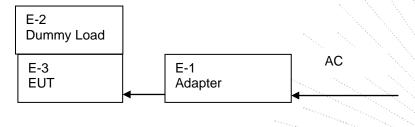
USB-A port2 and USB-A port3: DC5V2.4A

#### 4.2 Test Setup Configuration

No.: BCTC/RF-EMC-005

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

Conducted Emission/Radiated Spurious Emission:





#### 4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Adapter	CEREECOO	CE48B	Ref. the Section 4.1	EUT
E-2	Dummy load	N/A	DL01	N/A	Auxiliary
E-3	Multifunctional 4 in 1 charging stand	CEREECOO	CE48B	Ref. the Section 4.1	EUT

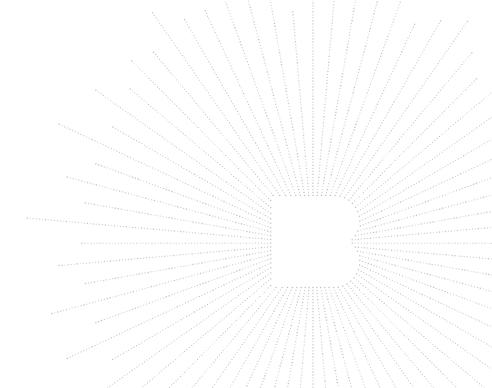
#### Notes:

- 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.

#### 4.5 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.

Test Mode 1	5W
Test Mode 2	7.5W
Test Mode 3	10W



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



## 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					11/7/
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 Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\(\frac{1}{2}\)	May 28, 2021	May 27, 2022

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



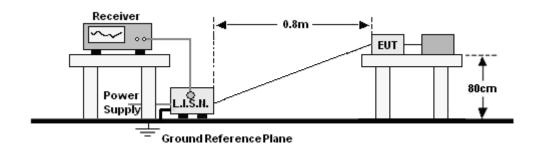
Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 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-40GH z)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier (18GHz-40GH z)	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	B1702988-000 8	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1GHz )	Huber+Suhnar	30MHz-1GHz	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	The state of	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE		Y

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

Fragueney (MH=)	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

#### 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.

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

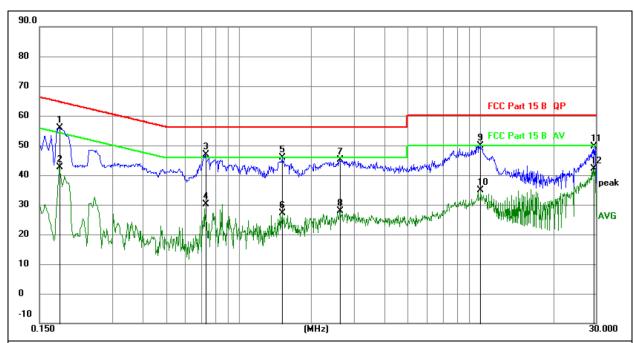
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

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



#### 6.5 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 3	Test Voltage:	AC 120V/60Hz



#### Remark:

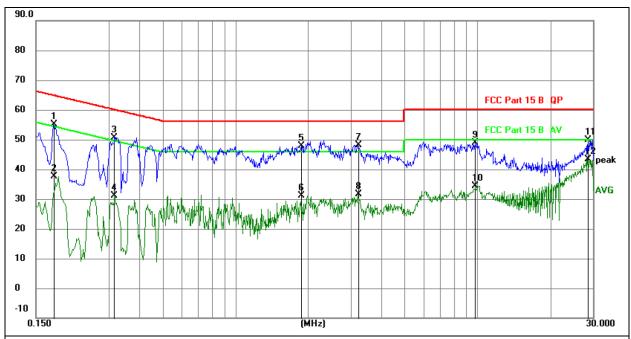
- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement = Reading Level + Correct Factor
- 4. Over = Measurement Limit

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBu∨	dBu∀	dB	Detector
1	0.1815	36.39	19.60	55.99	64.42	-8.43	QP
2	0.1815	23.08	19.60	42.68	54.42	-11.74	AVG
3	0.7304	27.33	19.61	46.94	56.00	-9.06	QP
4	0.7304	10.45	19.61	30.06	46.00	-15.94	AVG
5	1.5179	26.22	19.62	45.84	56.00	-10.16	QP
6	1.5179	7.39	19.62	27.01	46.00	-18.99	AVG
7	2.6204	25.37	19.64	45.01	56.00	-10.99	QP
8	2.6204	8.13	19.64	27.77	46.00	-18.23	AVG
9	10.0185	30.01	19.79	49.80	60.00	-10.20	QP
10	10.0185	15.11	19.79	34.90	50.00	-15.10	AVG
11	29.3595	29.79	19.72	49.51	60.00	-10.49	QP
12 *	29.3595	22.37	19.72	42.09	50.00	-7.91	AVG

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



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 3	Test Voltage:	AC 120V/60Hz



#### Remark:

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

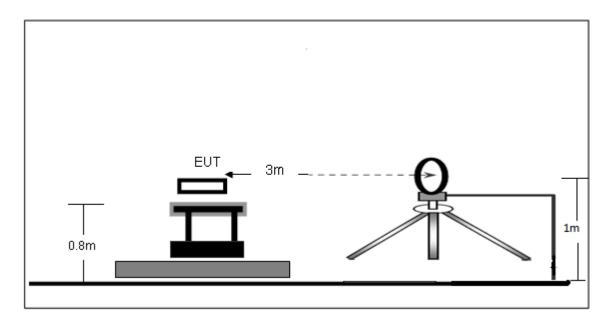
1. 0 10	i – Micasa	TOTTION EN	1110					
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1905	33.53	19.60	53.13	64.01	-10.88	QP
2		0.1905	10.98	19.60	30.58	54.01	-23.43	AVG
3		0.6045	22.28	19.61	41.89	56.00	-14.11	QP
4		0.6045	15.94	19.61	35.55	46.00	-10.45	AVG
5		1.4685	25.77	19.62	45.39	56.00	-10.61	QP
6	*	1.4685	19.08	19.62	38.70	46.00	-7.30	AVG
7		3.0615	15.62	19.65	35.27	56.00	-20.73	QP
8		3.0615	14.29	19.65	33.94	46.00	-12.06	AVG
9		7.0575	22.91	19.73	42.64	60.00	-17.36	QP
10		7.0575	17.17	19.73	36.90	50.00	-13.10	AVG
11		16.5255	23.87	19.76	43.63	60.00	-16.37	QP
12		16.5255	18.61	19.76	38.37	50.00	-11.63	AVG



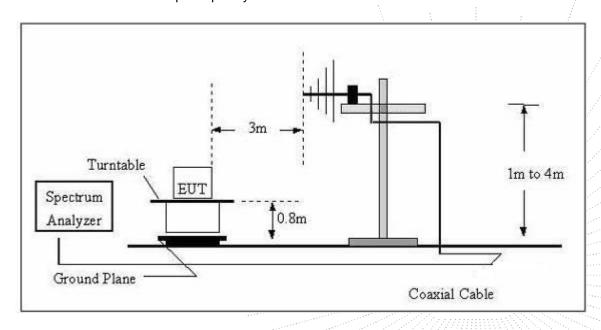
#### 7. Radiated Emissions

## 7.1 Block Diagram Of Test Setup

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



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



No.: BCTC/RF-EMC-005 Page 14 of 26 / / / Edition: Ax



#### 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			
	Above 1000MHz	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 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.

No.: BCTC/RF-EMC-005 Page 15 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.

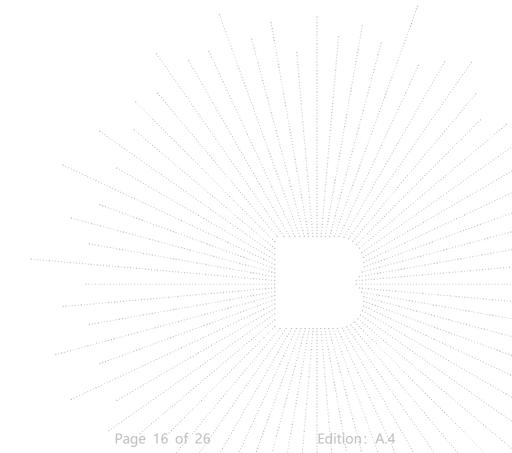
Above 1GHz test procedure as below:

No.: BCTC/RF-EMC-005

- 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:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization :	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20.00.0. 1990
22.86	64.61	20.15	84.76	140.42	-55.66	PK
22.86	40.63	20.15	60.78	120.42	-59.64	AV
60.34	52.59	20.33	72.92	131.99	-59.07	PK
60.34	38.06	20.33	58.39	111.99	-53.60	AV
150.72	67.52	20.55	88.07	124.04	-35.97	PK
150.72	54.90	20.55	75.45	104.04	-28.59	AV
532.49	25.19	20.64	45.83	73.08	-27.25	QP
751.39	29.80	21.26	51.06	70.09	-19.03	QP
1229.49	18.52	22.32	40.84	65.81	-24.97	QP

#### Note:

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

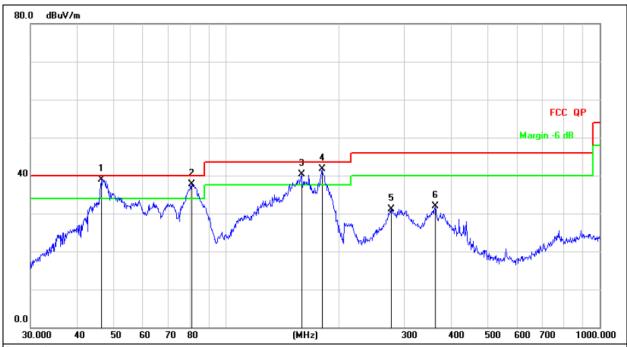
Factor = antenna factor + cable loss – pre-amplifier. Margin = Emission Level- Limit.

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



#### Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 3	Test Voltage:	AC 120V/60Hz



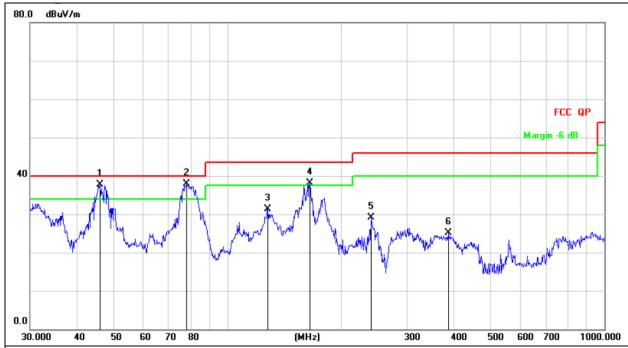
#### Remark:

- 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	*	46.5030	54.77	-15.94	38.83	40.00	-1.17	QP
2	İ	80.9274	57.85	-20.20	37.65	40.00	-2.35	QP
3	İ	159.2250	59.06	-18.74	40.32	43.50	-3.18	QP
4	İ	180.6487	58.63	-17.01	41.62	43.50	-1.88	QP
5		277.0935	45.35	-14.17	31.18	46.00	-14.82	QP
6		362.9844	43.86	-11.92	31.94	46.00	-14.06	QP



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 3	Test Voltage:	AC 120V/60Hz



#### 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	İ	46.0162	53.77	-16.01	37.76	40.00	-2.24	QP
2	*	77.8653	57.93	-20.01	37.92	40.00	-2.08	QP
3		128.1129	49.32	-18.02	31.30	43.50	-12.20	QP
4	İ	165.4866	56.28	-18.24	38.04	43.50	-5.46	QP
5		240.8303	43.81	-14.80	29.01	46.00	-16.99	QP
6		386.6338	36.40	-11.24	25.16	46.00	-20.84	QP



#### 8. Bandwidth Test

#### 8.1 Test Procedure

- 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.

#### 8.2 Test Setup



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



#### 8.3 Test Result

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
119.8	0.126	0.115	Pass



No.: BCTC/RF-EMC-005 Page 21 of 26 / / Edition: A.4



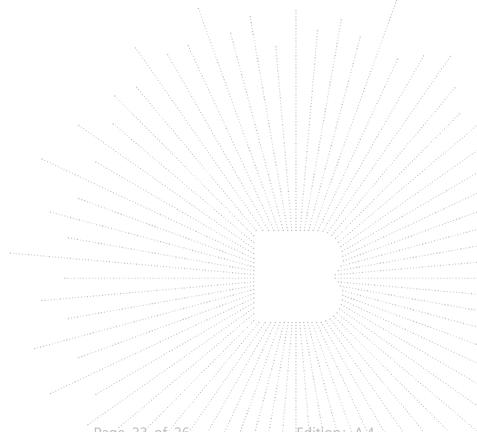
#### 9. Antenna Requirements

#### 9.1 Limit

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.

#### 9.2 Test Result

The EUT antenna is loop coil antenna, fulfill the requirement of this section.



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



## 10. EUT Photographs

EUT Photo 1



NOTE: Appendix-Photographs Of EUT Constructional Details



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

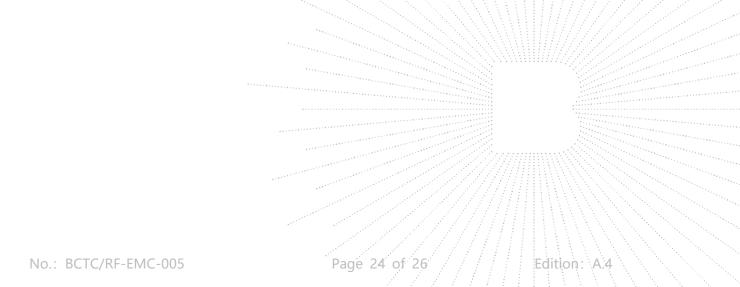




## 11. EUT Test Setup Photographs

Conducted emissions









#### Radiated Measurement Photos





No.: BCTC/RF-EMC-005 Page 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.

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

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