

# **TEST REPORT**

Report No.: BCTC2403552271-1E

Applicant: TRANSTYLE TECHNOLOGY CO., LIMITED

Product Name: 4 in 1 Travel Companion TWS Earphones with

Power bank charging case

Test Model: CW21

Tested Date: 2024-03-28 to 2024-04-09

Issued Date: 2024-04-11

Shenzhen BCTC Testing Co., Ltd.



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# FCC ID: 2ALN9-CW21

Product Name: 4 in 1 Travel Companion TWS Earphones with Power bank charging case

Trademark: N/A

**CW21** 

AI1011, AI1011-BLK, AI1011-GRY, AI1011-NVY, AI1011-FSA, AI1011-PUR, Model/Type reference:

AI1011-RED, AI1011-BLK-T37-6, AI1011-GRY-T37-6, AI1011-NVY-T37-6,

AI1011-FSA-T37-6, AI1011-PUR-T37-6, AI1011-RED-T37-6, CW21, CW20,

TW20, CW22, CW23

TRANSTYLE TECHNOLOGY CO., LIMITED Prepared For:

Room 404, Gainian Kongjian Factory, Building B, No.32 Huimin 1st Road, Address:

Guihua community, Guanlan Street, Longhua District, Shenzhen City, China

TRANSTYLE TECHNOLOGY CO., LIMITED Manufacturer:

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Prepared By: Shenzhen BCTC Testing Co., Ltd.

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

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

2024-03-27 Sample Received Date:

2024-03-28 to 2024-04-09 Sample tested Date:

Issue Date: 2024-04-11

Report No .: BCTC2403552271-1E

FCC Part15.209 Test Standards:

ANSI C63.10-2013

**PASS** Test Results:

Tested by:

Eric Yang/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)





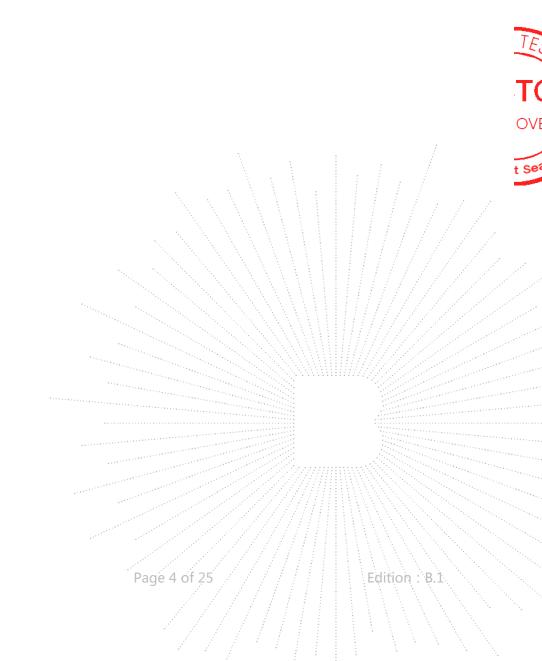






## 1. Version

Report No.	Issue Date	Description	Approved
BCTC2403552271-1E	2024-04-11	Original	Valid



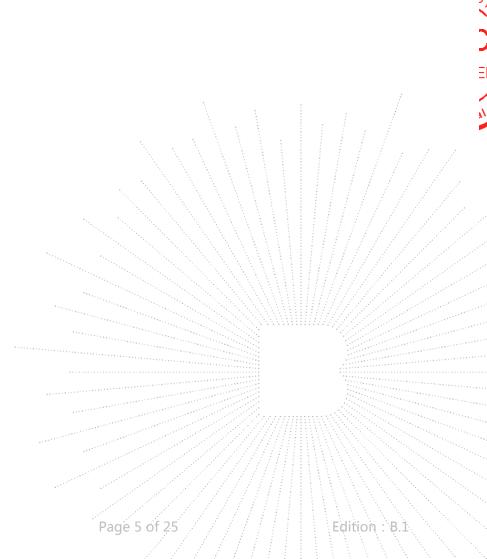
No.: BCTC/RF-EMC-005



#### **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



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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 Reference: CW21

AI1011, AI1011-BLK, AI1011-GRY, AI1011-NVY, AI1011-FSA, AI1011-PUR, AI1011-RED, AI1011-BLK-T37-6, AI1011-GRY-T37-6, AI1011-NVY-T37-6,

AI1011-FSA-T37-6, AI1011-PUR-T37-6, AI1011-RED-T37-6, CW21, CW20, TW20,

CW22, CW23

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

Operation Frequency: 115kHz-205kHz

Modulation: MSK

Antenna installation: Coil antenna

Ratings: DC 3.85V From battery

Input: DC 5V/9V/12V From adapter Wireless charging output: 5W/7.5W/10W

## 4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-2	ADAPTER	N/A	CD226		Auxiliary
E-3	Dummy load	N/A	DL02	N/A	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.

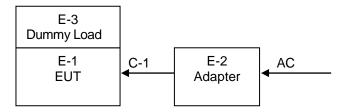
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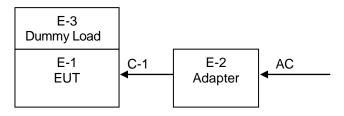
## 4.3 Test Setup Configuration

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

#### Conducted Emission:



#### Radiated Spurious Emission



E-3 Dummy Load
E-1 EUT

#### 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.

Test Mode 1	Charging+Wireless charging(5W)		
Test Mode 2	Wireless charging(5W)		
Test Mode 3	Wireless charging(7.5W)		
Test Mode 4	Wireless charging(10W)*		
Test Mode 5	Charging(Bluetooth headset)		

#### 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.

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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, 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 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	1
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept 21, 2024

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	11,1	May 15, 2023	May 14, 2024
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024

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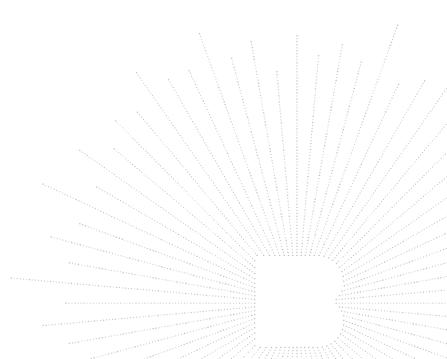
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	Radiated Emissions Test (966 Chamber01)				
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



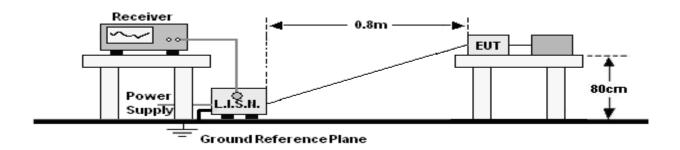
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### 6. Conducted Emissions

## 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

ERECHENCY (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).
- 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.

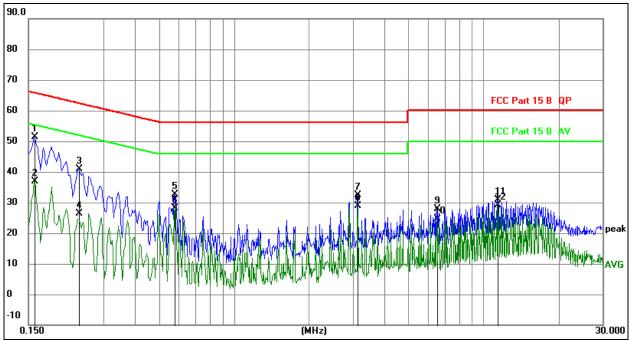
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## 6.5 Test Result

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



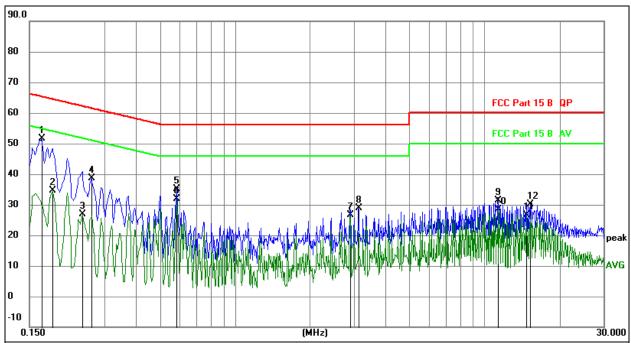
#### Remark:

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

0 701 10	Caca: COne Emme				1 1 .		
No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		d₿	dBuV	dBuV	d₿	Detector
1 *	0.1590	31.64	19.75	51.39	65.52	-14.13	QP
2	0.1590	17.04	19.75	36.79	55.52	-18.73	AVG
3	0.2400	21.07	19.83	40.90	62.10	-21.20	QP
4	0.2400	6.56	19.83	26.39	52.10	-25.71	AVG
5	0.5775	12.75	19.84	32.59	56.00	-23.41	QP
6	0.5775	8.28	19.84	28.12	46.00	-17.88	AVG
7	3.1380	12.00	20.35	32.35	56.00	-23.65	QP
8	3.1380	8.54	20.35	28.89	46.00	-17.11	AVG
9	6.5220	7.79	20.07	27.86	60.00	-32.14	QP
10	6.5220	4.65	20.07	24.72	50.00	-25.28	AVG
11	11.4135	10.99	19.88	30.87	60.00	-29.13	QP
12	11.4135	9.35	19.88	29.23	50.00	-20.77	AVG



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

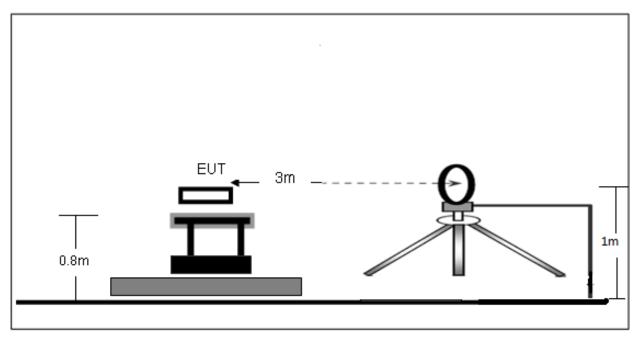
No. Mk.         Freq.         Reading Level         Correct Factor Factor         Measurement Measurement         Limit Limit         Over           1 * 0.1677 31.85         19.77 51.62 65.07 -13.45 QP         QP           2 0.1853 14.75 19.80 34.55 54.24 -19.69 AVG         34.55 54.24 -19.69 AVG           3 0.2442 7.17 19.83 27.00 51.95 -24.95 AVG         4 0.2658 18.90 19.83 38.73 61.25 -22.52 QP           5 0.5854 15.24 19.84 35.08 56.00 -20.92 QP         6 0.5854 11.98 19.84 31.82 46.00 -14.18 AVG           7 2.8845 6.39 20.26 26.65 46.00 -19.35 AVG           8 3.1231 8.48 20.35 28.83 56.00 -27.17 QP           9 11.3771 11.49 19.88 31.37 60.00 -28.63 QP           10 11.3771 8.46 19.88 28.34 50.00 -21.66 AVG           11 14.7497 6.68 19.88 28.56 50.00 -23.44 AVG           12 15.2261 10.29 19.88 30.17 60.00 -29.83 QP	T. OVCI-IVICASA	TOTTICTIC EITHIC					<u> </u>	
1 * 0.1677         31.85         19.77         51.62         65.07         -13.45         QP           2 0.1853         14.75         19.80         34.55         54.24         -19.69         AVG           3 0.2442         7.17         19.83         27.00         51.95         -24.95         AVG           4 0.2658         18.90         19.83         38.73         61.25         -22.52         QP           5 0.5854         15.24         19.84         35.08         56.00         -20.92         QP           6 0.5854         11.98         19.84         31.82         46.00         -14.18         AVG           7 2.8845         6.39         20.26         26.65         46.00         -19.35         AVG           8 3.1231         8.48         20.35         28.83         56.00         -27.17         QP           9 11.3771         11.49         19.88         31.37         60.00         -28.63         QP           10 11.3771         8.46         19.88         28.34         50.00         -21.66         AVG           11         14.7497         6.68         19.88         26.56         50.00         -23.44         AVG	No. Mk.	Freq.	_			Limit	Over	
2       0.1853       14.75       19.80       34.55       54.24       -19.69       AVG         3       0.2442       7.17       19.83       27.00       51.95       -24.95       AVG         4       0.2658       18.90       19.83       38.73       61.25       -22.52       QP         5       0.5854       15.24       19.84       35.08       56.00       -20.92       QP         6       0.5854       11.98       19.84       31.82       46.00       -14.18       AVG         7       2.8845       6.39       20.26       26.65       46.00       -19.35       AVG         8       3.1231       8.48       20.35       28.83       56.00       -27.17       QP         9       11.3771       11.49       19.88       31.37       60.00       -28.63       QP         10       11.3771       8.46       19.88       28.34       50.00       -21.66       AVG         11       14.7497       6.68       19.88       26.56       50.00       -23.44       AVG		MHz		dΒ	dBu∀	dBuV	dΒ	Detector
3       0.2442       7.17       19.83       27.00       51.95       -24.95       AVG         4       0.2658       18.90       19.83       38.73       61.25       -22.52       QP         5       0.5854       15.24       19.84       35.08       56.00       -20.92       QP         6       0.5854       11.98       19.84       31.82       46.00       -14.18       AVG         7       2.8845       6.39       20.26       26.65       46.00       -19.35       AVG         8       3.1231       8.48       20.35       28.83       56.00       -27.17       QP         9       11.3771       11.49       19.88       31.37       60.00       -28.63       QP         10       11.3771       8.46       19.88       28.34       50.00       -21.66       AVG         11       14.7497       6.68       19.88       26.56       50.00       -23.44       AVG	1 *	0.1677	31.85	19.77	51.62	65.07	-13.45	QP
4       0.2658       18.90       19.83       38.73       61.25       -22.52       QP         5       0.5854       15.24       19.84       35.08       56.00       -20.92       QP         6       0.5854       11.98       19.84       31.82       46.00       -14.18       AVG         7       2.8845       6.39       20.26       26.65       46.00       -19.35       AVG         8       3.1231       8.48       20.35       28.83       56.00       -27.17       QP         9       11.3771       11.49       19.88       31.37       60.00       -28.63       QP         10       11.3771       8.46       19.88       28.34       50.00       -21.66       AVG         11       14.7497       6.68       19.88       26.56       50.00       -23.44       AVG	2	0.1853	14.75	19.80	34.55	54.24	-19.69	AVG
5       0.5854       15.24       19.84       35.08       56.00       -20.92       QP         6       0.5854       11.98       19.84       31.82       46.00       -14.18       AVG         7       2.8845       6.39       20.26       26.65       46.00       -19.35       AVG         8       3.1231       8.48       20.35       28.83       56.00       -27.17       QP         9       11.3771       11.49       19.88       31.37       60.00       -28.63       QP         10       11.3771       8.46       19.88       28.34       50.00       -21.66       AVG         11       14.7497       6.68       19.88       26.56       50.00       -23.44       AVG	3	0.2442	7.17	19.83	27.00	51.95	-24.95	AVG
6 0.5854 11.98 19.84 31.82 46.00 -14.18 AVG 7 2.8845 6.39 20.26 26.65 46.00 -19.35 AVG 8 3.1231 8.48 20.35 28.83 56.00 -27.17 QP 9 11.3771 11.49 19.88 31.37 60.00 -28.63 QP 10 11.3771 8.46 19.88 28.34 50.00 -21.66 AVG 11 14.7497 6.68 19.88 26.56 50.00 -23.44 AVG	4	0.2658	18.90	19.83	38.73	61.25	-22.52	QP
7 2.8845 6.39 20.26 26.65 46.00 -19.35 AVG 8 3.1231 8.48 20.35 28.83 56.00 -27.17 QP 9 11.3771 11.49 19.88 31.37 60.00 -28.63 QP 10 11.3771 8.46 19.88 28.34 50.00 -21.66 AVG 11 14.7497 6.68 19.88 26.56 50.00 -23.44 AVG	5	0.5854	15.24	19.84	35.08	56.00	-20.92	QP
8     3.1231     8.48     20.35     28.83     56.00     -27.17     QP       9     11.3771     11.49     19.88     31.37     60.00     -28.63     QP       10     11.3771     8.46     19.88     28.34     50.00     -21.66     AVG       11     14.7497     6.68     19.88     26.56     50.00     -23.44     AVG	6	0.5854	11.98	19.84	31.82	46.00	-14.18	AVG
9 11.3771 11.49 19.88 31.37 60.00 -28.63 QP 10 11.3771 8.46 19.88 28.34 50.00 -21.66 AVG 11 14.7497 6.68 19.88 26.56 50.00 -23.44 AVG	7	2.8845	6.39	20.26	26.65	46.00	-19.35	AVG
10 11.3771 8.46 19.88 28.34 50.00 -21.66 AVG 11 14.7497 6.68 19.88 26.56 50.00 -23.44 AVG	8	3.1231	8.48	20.35	28.83	56.00	-27.17	QP
11 14.7497 6.68 19.88 26.56 50.00 -23.44 AVG	9	11.3771	11.49	19.88	31.37	60.00	-28.63	QP
	10	11.3771	8.46	19.88	28.34	50.00	-21.66	AVG
12 15.2261 10.29 19.88 30.17 60.00 -29.83 QP	11	14.7497	6.68	19.88	26.56	50.00	-23.44	AVG
	12	15.2261	10.29	19.88	30.17	60.00	-29.83	QP



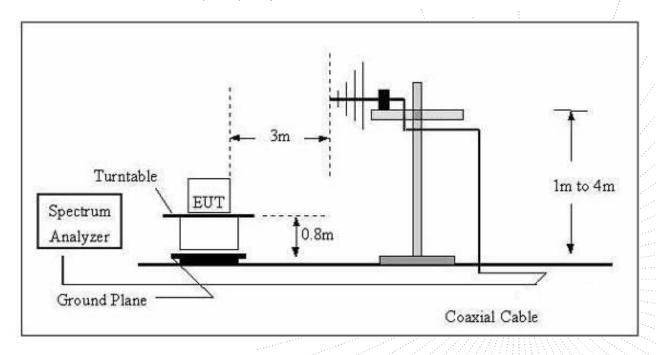
## 7. Radiated Emissions

# 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	rd FCC Part15 C Section 15.209 and 15.205									
	Frequency (MHz)	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 1000MII-	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.
- 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.

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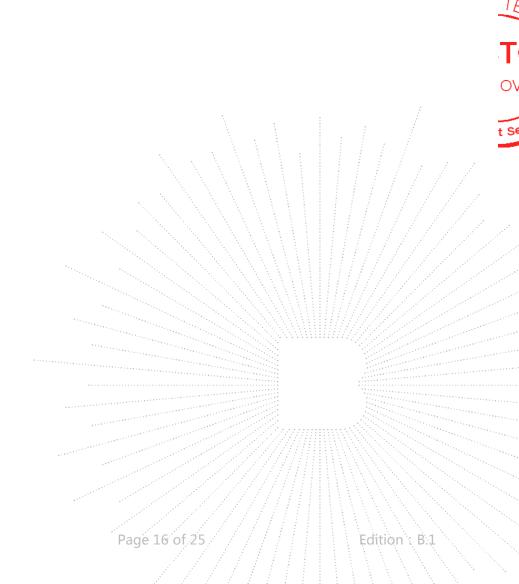
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Above 1GHz test procedure as below:

- 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.

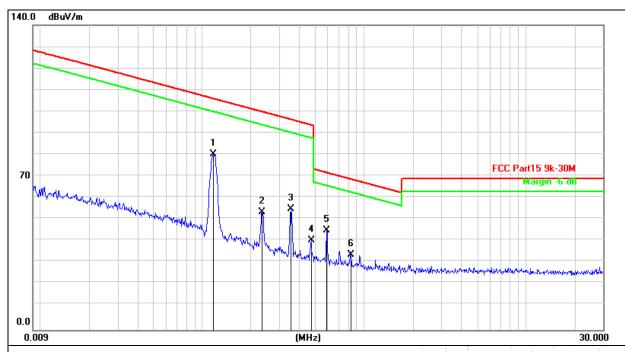




## 7.4 Test Result

#### 9kHz-30MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	DC 3.85V
Test Mode:	Mode 4	Polarization:	Coaxial



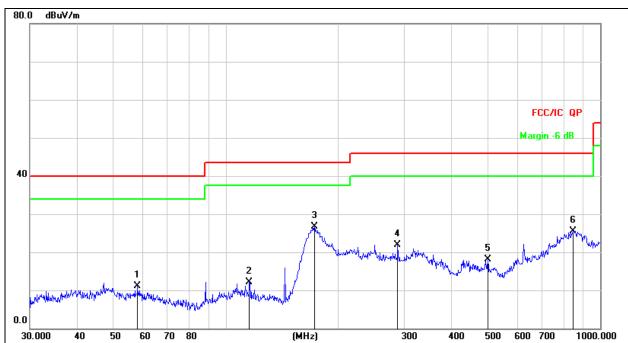
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector
1	*	0.1208	88.24	-7.52	80.72	106.1	-25.46	peak
2		0.2347	61.98	-7.76	54.22	100.1	-45.97	peak
3		0.3549	63.18	-7.67	55.51	96.60	-41.09	peak
4		0.4714	48.75	-7.59	41.16	94.14	-52.98	peak
5		0.5868	53.25	-7.48	45.77	72.24	-26.47	peak
6		0.8318	41.86	-7.36	34.50	69.22	-34.72	peak

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## Between 30MHz - 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	DC 3.85V
Test Mode:	Mode 4	Polarization:	Horizontal



#### Remark:

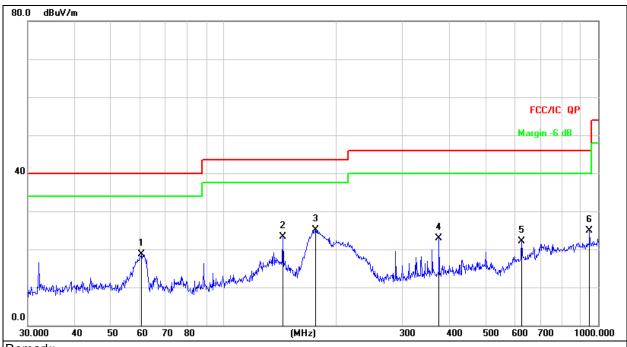
- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
   2. Measurement=Reading Level+ Correct Factor
   3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		58.2030	26.05	-15.01	11.04	40.00	-28.96	QP
2	•	115.7256	29.06	-17.03	12.03	43.50	-31.47	QP
3	* *	172.5988	44.52	-17.75	26.77	43.50	-16.73	QP
4	2	287.9904	35.38	-13.49	21.89	46.00	-24.11	QP
5	ļ	501.1790	26.80	-8.65	18.15	46.00	-27.85	QP
6	8	345.0878	29.61	-4.02	25.59	46.00	-20.41	QP

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Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage:	DC 3.85V
Test Mode:	Mode 4	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		60.2801	34.05	-15.33	18.72	40.00	-21.28	QP
2		143.8295	42.23	-19.00	23.23	43.50	-20.27	QP
3	*	175.6516	42.58	-17.53	25.05	43.50	-18.45	QP
4		375.9385	34.00	-11.15	22.85	46.00	-23.15	QP
5		625.0780	28.67	-6.59	22.08	46.00	-23.92	QP
6		948.7610	27.94	-2.94	25.00	46.00	-21.00	QP



#### 8. Bandwidth Test

#### 8.1 Test Procedure

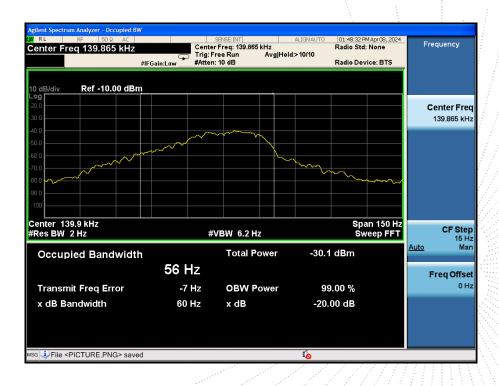
- 1. Set RBW = 1%~5% OBW.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost 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

EUT SPECTRUM ANALYZER

#### 8.3 Test Result

Frequency (kHz)	20dB bandwidth (Hz)	Result
139.9	60	Pass ,



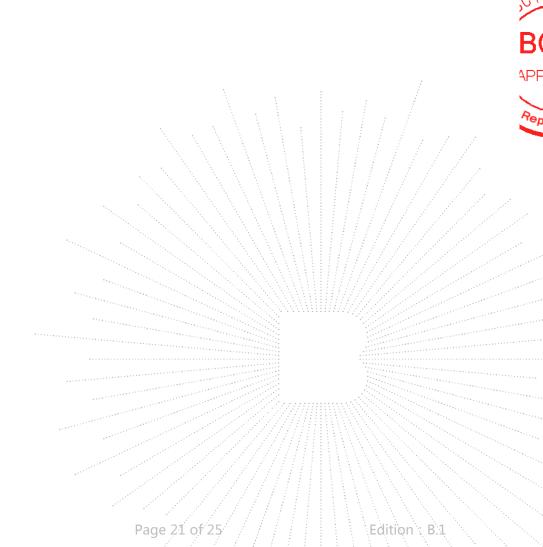


## 9. Antenna Requirements

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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 Coil antenna.



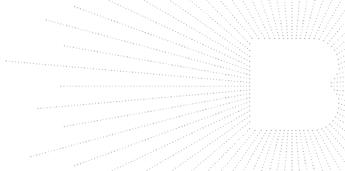


## 10. EUT Photographs

**EUT Photo** 



NOTE: Appendix-Photographs Of EUT Constructional Details



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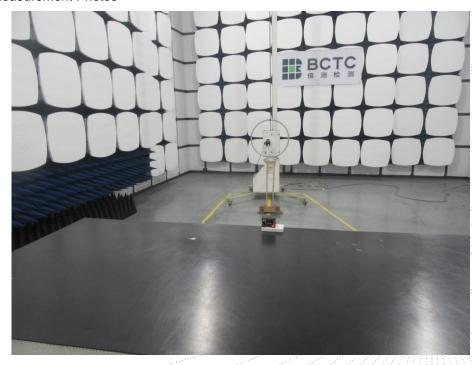


## 11. EUT Test Setup Photographs

## Conducted Emissions Photo



## Radiated Measurement Photos



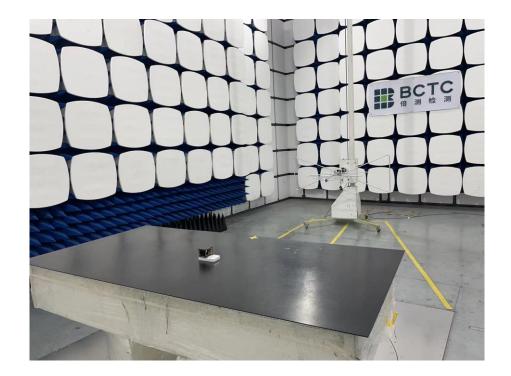
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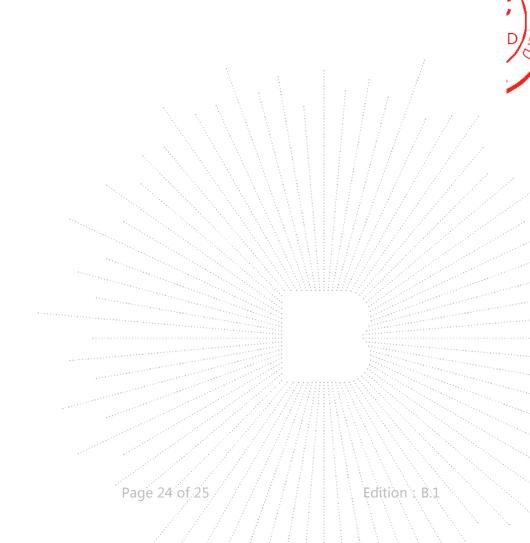
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#### **STATEMENT**

- 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 quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. 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.

## Address:

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

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