

TEST REPORT

Report No.: BCTC2304783346-1E

Applicant: Ugreen Group Limited

Product Name: 10000mAh Magnetic Wireless Power Bank

Model/Type Ref.: PB206

Tested Date: 2023-04-23 to 2023-05-17

Issued Date: 2023-05-18

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AQI5-PB206

Product Name: 10000mAh Magnetic Wireless Power Bank

Trademark: **UGREEN**

Model/Type Ref.: PB206
15086, 25154, 15086P, 15086X, 15086A, 15086B, 15086U, 15086JP, 15086ZD,
25154P, 25154X, 25154A, 25154B, 25154U, 25154JP, 25154ZD

Prepared For: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua,
ShenZhen, China

Manufacturer: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua,
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: 2023-04-23

Sample tested Date: 2023-04-23 to 2023-05-17

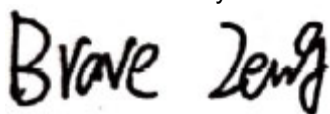
Issue Date: 2023-05-18

Report No.: BCTC2304783346-1E

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

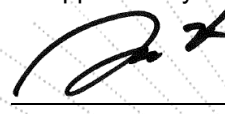
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

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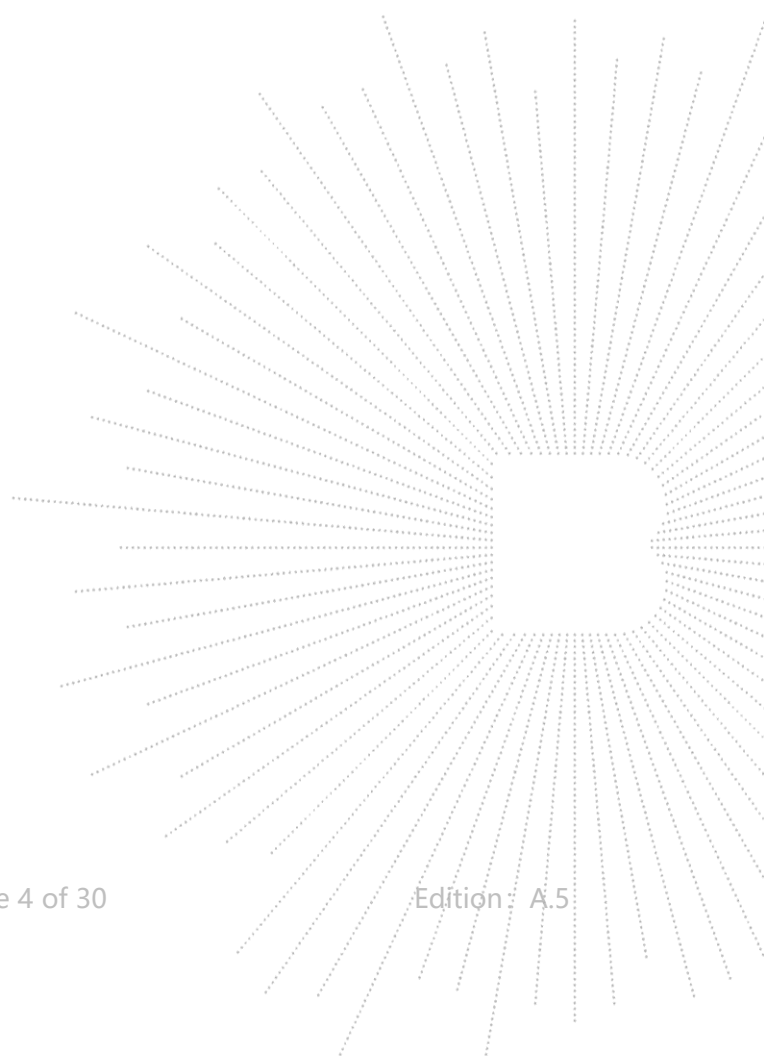
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2304783346-1E	2023-05-18	Original	Valid



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

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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	PB206 15086, 25154, 15086P, 15086X, 15086A, 15086B, 15086U, 15086JP, 15086ZD, 25154P, 25154X, 25154A, 25154B, 25154U, 25154JP, 25154ZD
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	SW6206G+NU1708
Software Version:	NU1708
Product Description:	10000mAh Magnetic Wireless Power Bank
Operation Frequency:	112kHz-205kHz
Antenna installation:	loop coil antenna
Ratings:	USB-C Input:5V=3A,9V=2.22A,12V=1.67A USB-C Output:5V=3A,9=2.22A,12V=1.67A USB-A Output:5V=3A,9V=2A,12V=1.5A,5V=4.5A,4.5V=5A Wireless Output:5W/7.5W/10W/15W Total output:5V=3A Max

Cable of Product

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

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	Adapter	HUAWEI	HW-110600C02	---	auxiliary
2.	Wireless charging load	---	---	--	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.

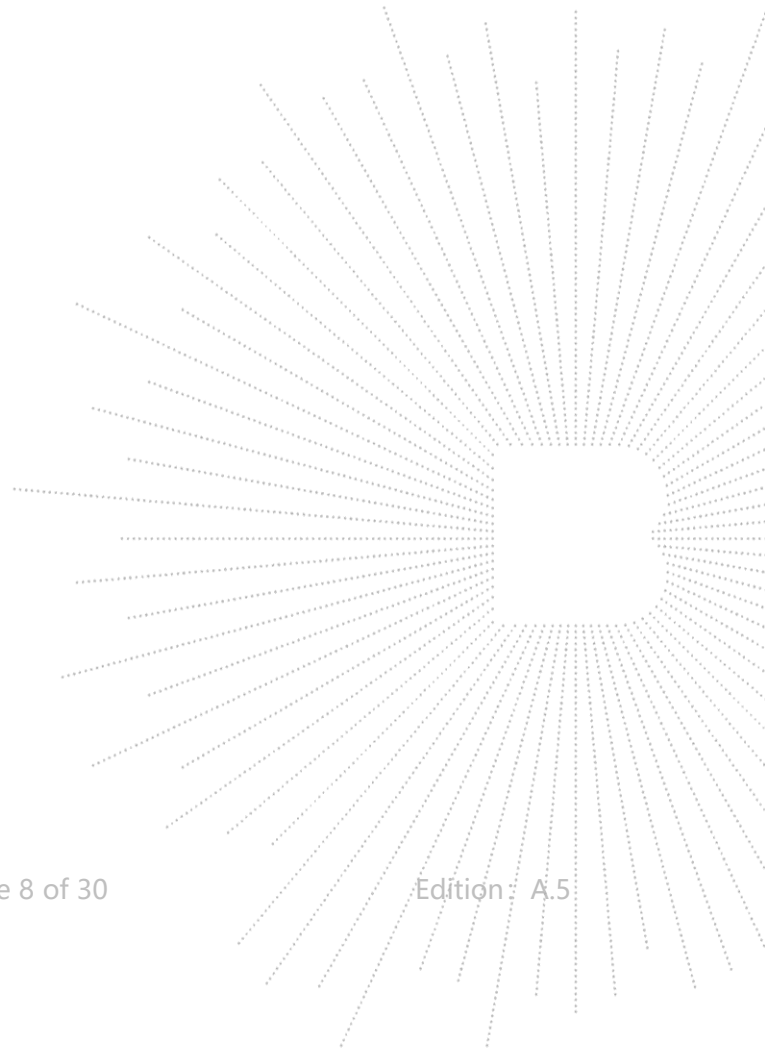
4.4 Test Mode

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 Mode 1	Charging+Wireless 5W
DC Mode	Test Mode 2	Wireless Charging 5W+USB-C Output 5V1A+USB A Output 5V1A
	Test Mode 3	Wireless Charging 5W
	Test Mode 4	Wireless Charging 7.5W
	Test Mode 5	Wireless Charging 10W
	Test Mode 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.
Ac mode only supports 5W wireless charging



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

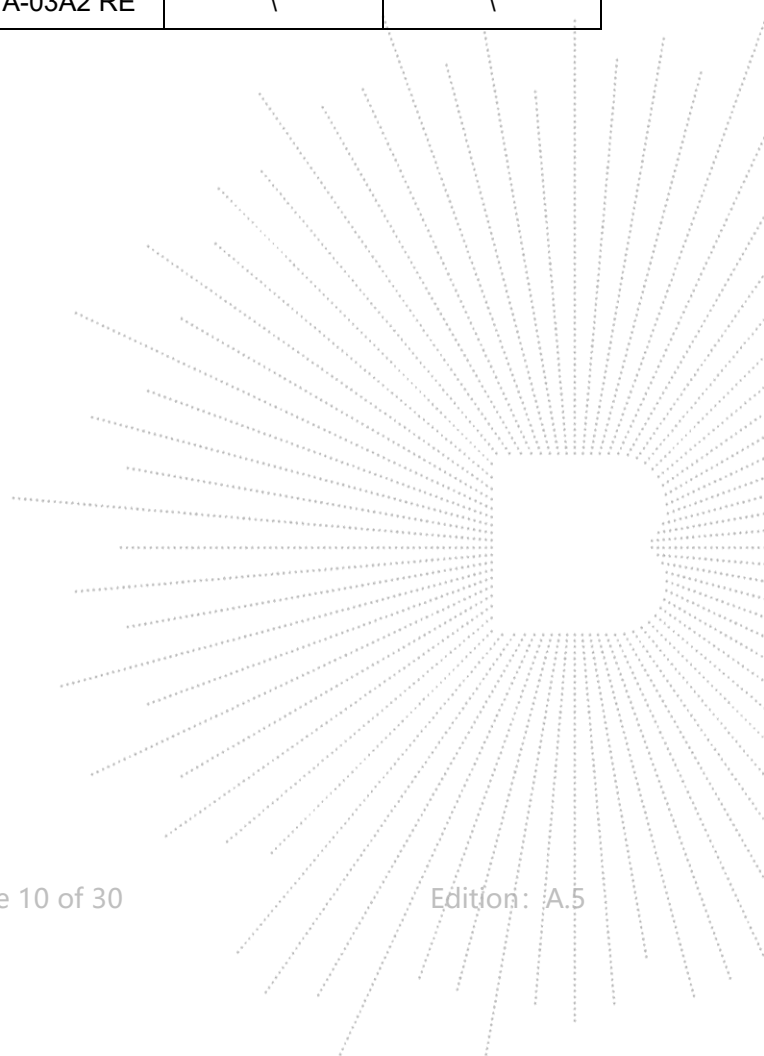
ISED CAB identifier: CN0017

5.2 Test Instrument Used

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

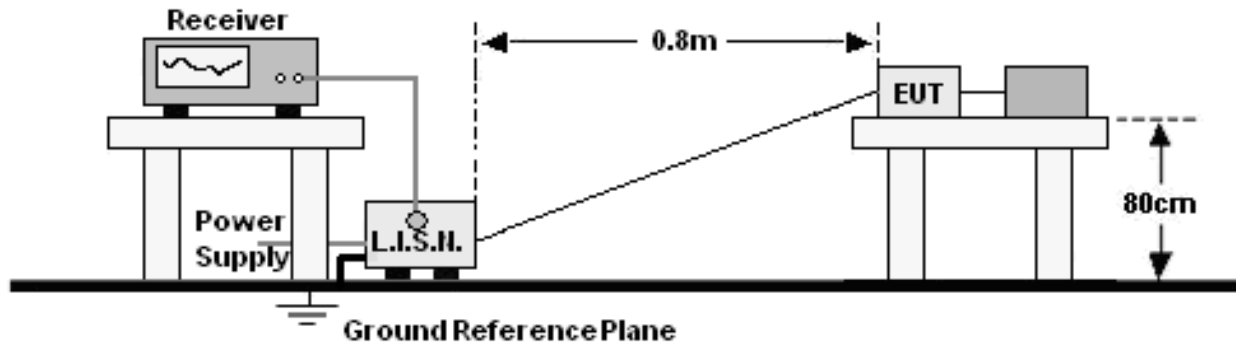
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023

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	\	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	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)	
	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:

- *Decreasing linearly with logarithm of frequency.
- 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

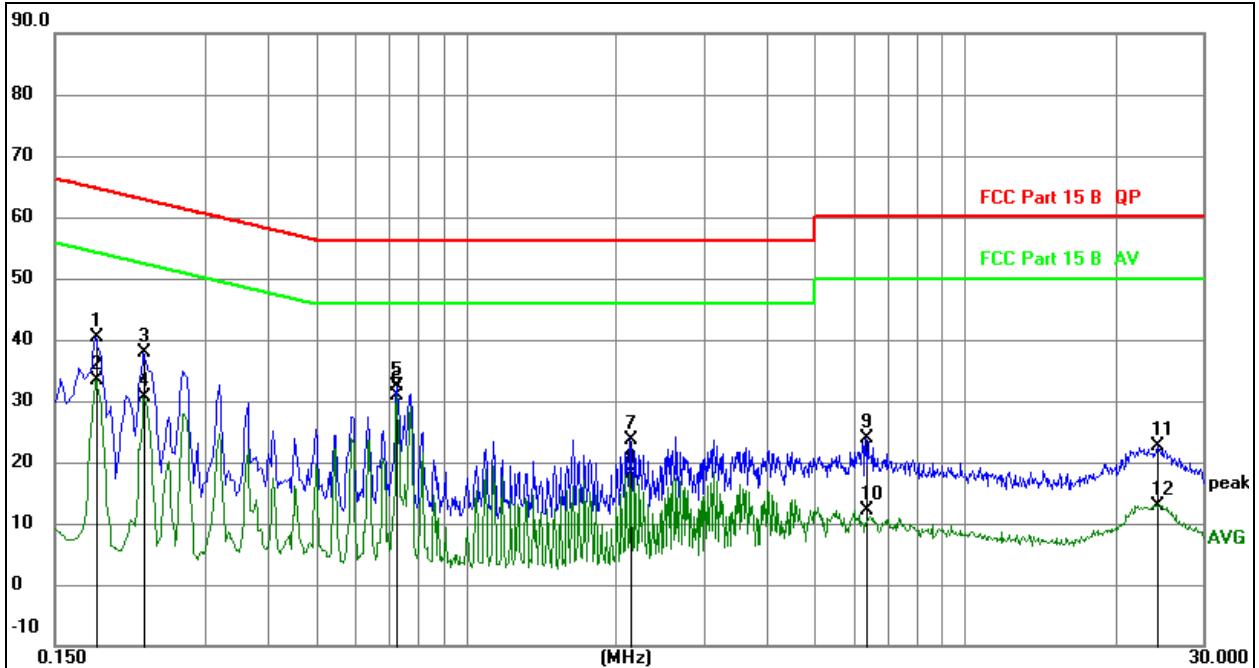
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
- 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.

6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

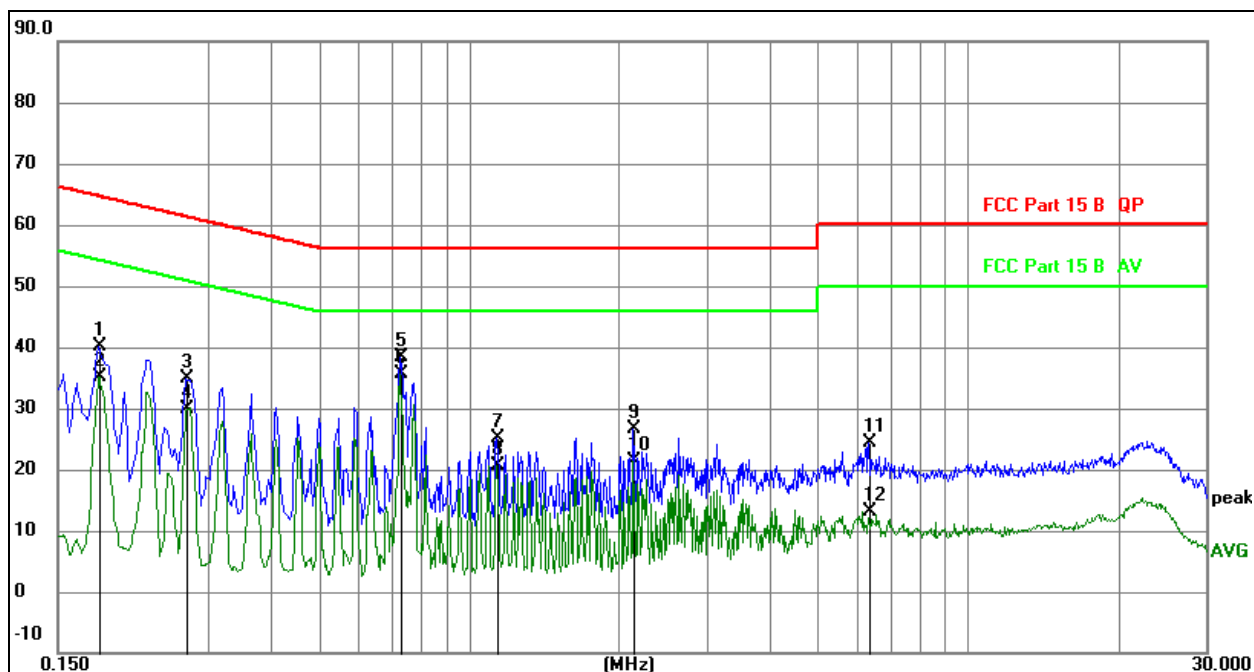


Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1806	20.62	19.75	40.37	64.46	-24.09	QP
2	0.1806	13.66	19.75	33.41	54.46	-21.05	AVG
3	0.2256	18.03	19.79	37.82	62.61	-24.79	QP
4	0.2256	10.72	19.79	30.51	52.61	-22.10	AVG
5	0.7273	12.62	19.74	32.36	56.00	-23.64	QP
6 *	0.7273	11.12	19.74	30.86	46.00	-15.14	AVG
7	2.1326	3.62	19.89	23.51	56.00	-32.49	QP
8	2.1326	-1.64	19.89	18.25	46.00	-27.75	AVG
9	6.3186	3.68	20.16	23.84	60.00	-36.16	QP
10	6.3186	-8.05	20.16	12.11	50.00	-37.89	AVG
11	24.2706	2.01	20.52	22.53	60.00	-37.47	QP
12	24.2706	-7.52	20.52	13.00	50.00	-37.00	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



Remark:

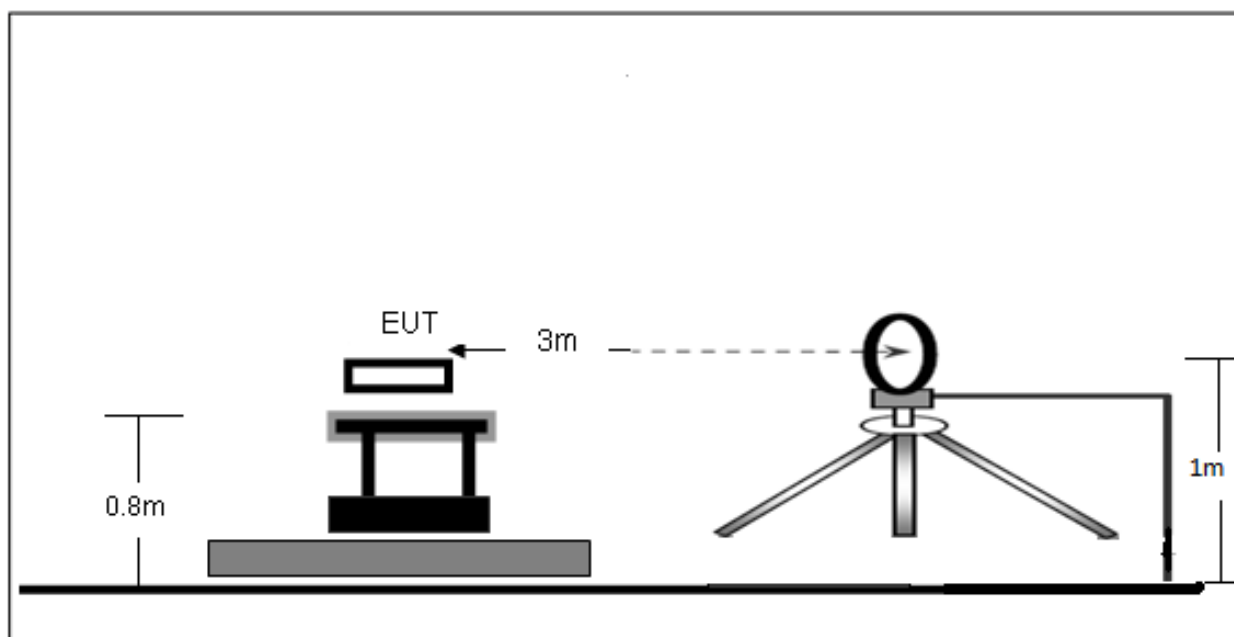
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No. Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1815	20.48	19.75	40.23	64.42	-24.19	QP
2	0.1815	15.28	19.75	35.03	54.42	-19.39	AVG
3	0.2714	14.98	19.78	34.76	61.07	-26.31	QP
4	0.2714	10.22	19.78	30.00	51.07	-21.07	AVG
5	0.7304	18.70	19.74	38.44	56.00	-17.56	QP
6 *	0.7304	15.93	19.74	35.67	46.00	-10.33	AVG
7	1.1400	5.40	19.78	25.18	56.00	-30.82	QP
8	1.1400	0.81	19.78	20.59	46.00	-25.41	AVG
9	2.1390	6.84	19.90	26.74	56.00	-29.26	QP
10	2.1390	1.38	19.90	21.28	46.00	-24.72	AVG
11	6.3330	4.13	20.16	24.29	60.00	-35.71	QP
12	6.3330	-7.08	20.16	13.08	50.00	-36.92	AVG

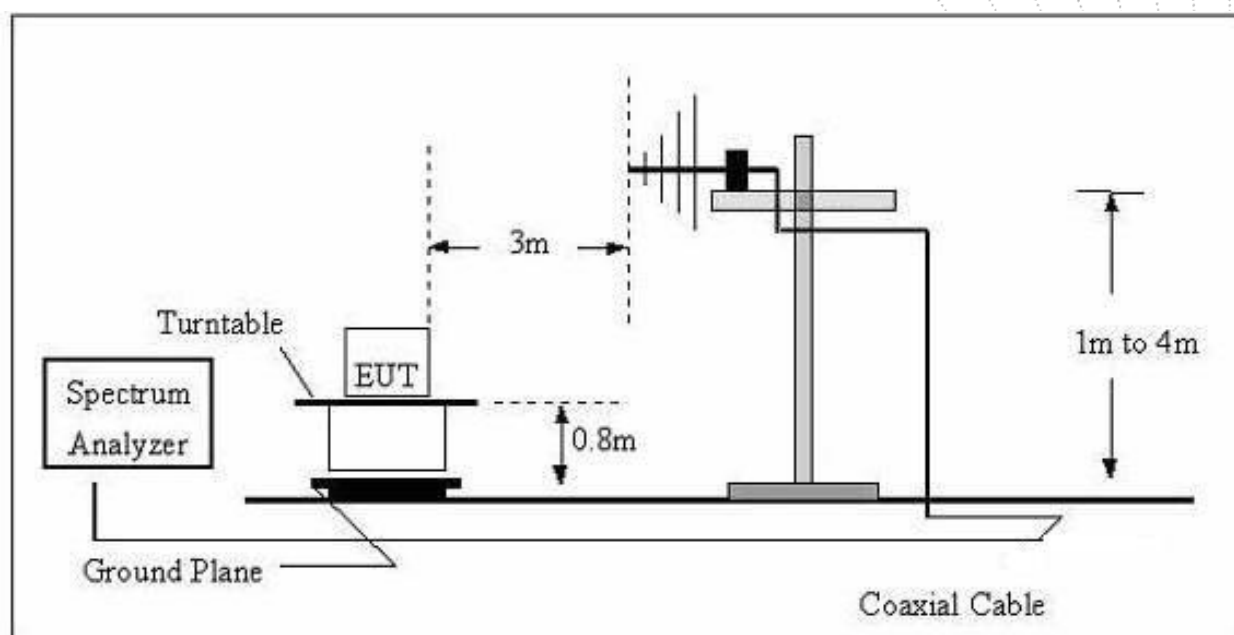
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



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



7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	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
	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
		-	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:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.

Above 1GHz test procedure as below:

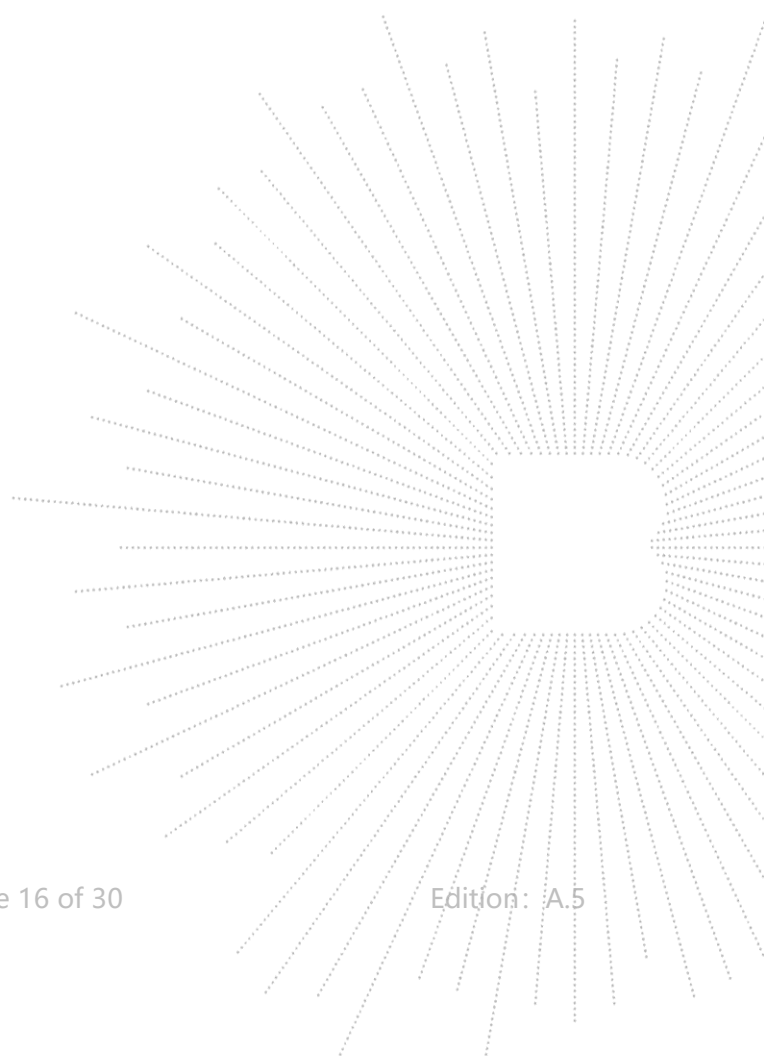
g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

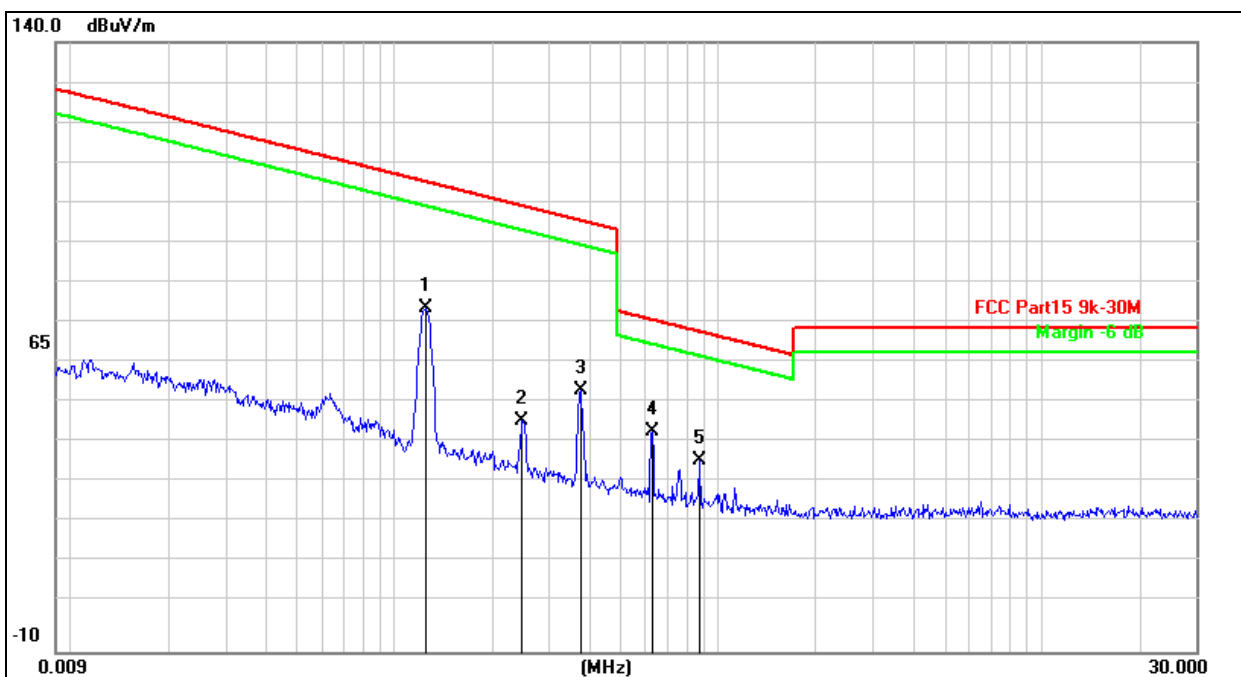
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 Test Result



Between 9kHz – 30MHz

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

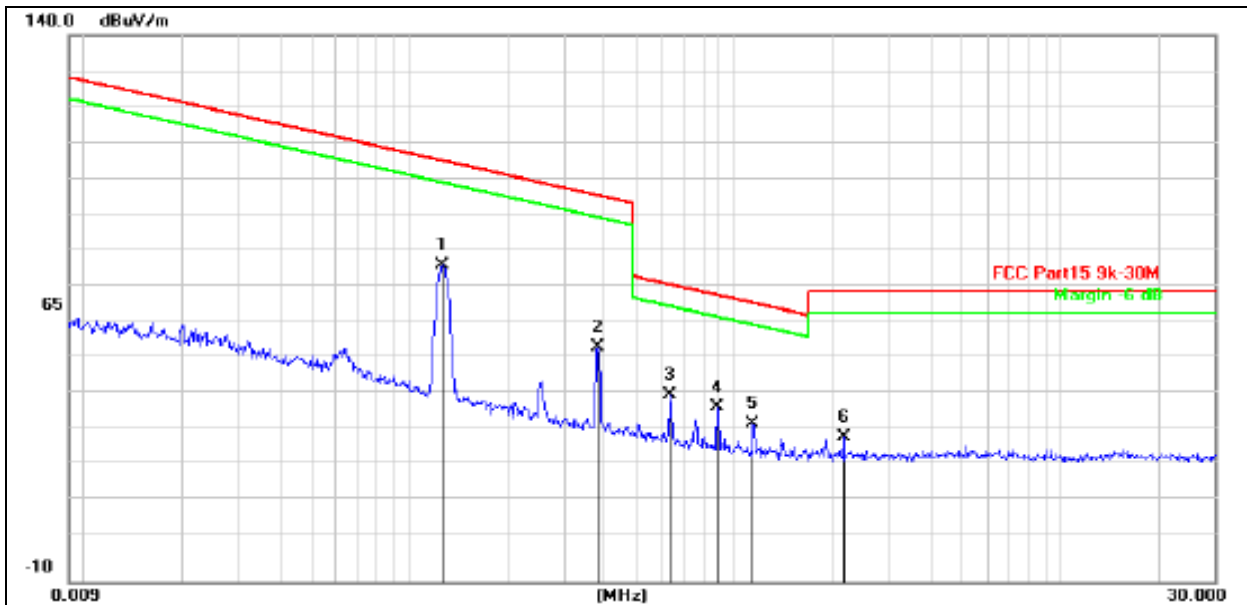


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.1246	84.61	-10.12	74.49	105.6	-31.20	peak
2		0.2484	57.20	-10.28	46.92	99.70	-52.78	peak
3		0.3756	64.73	-10.27	54.46	96.11	-41.65	peak
4	*	0.6262	54.40	-10.26	44.14	71.68	-27.54	peak
5		0.8733	47.12	-10.24	36.88	68.79	-31.91	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 6 (portable)	Polarization :	Coaxial



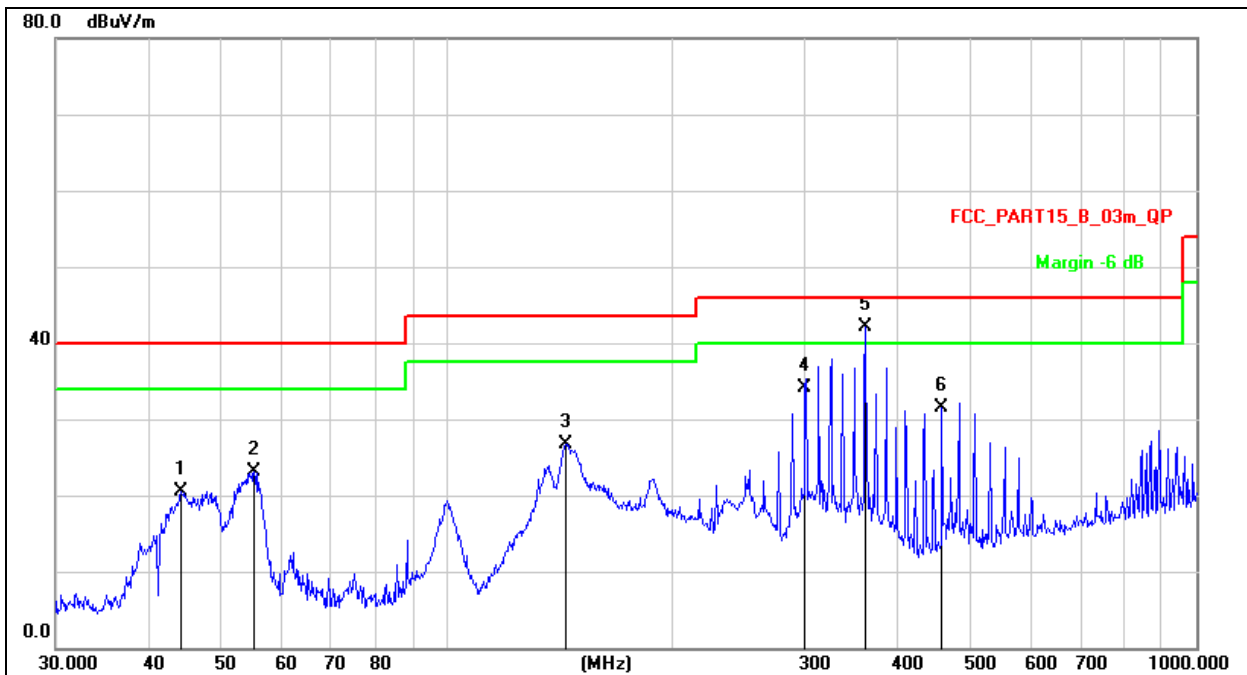
Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	0.1267	86.98	-10.11	76.87	105.5	-28.68	peak
2		0.3818	64.45	-10.27	54.18	95.97	-41.79	peak
3		0.6363	51.49	-10.26	41.23	71.54	-30.31	peak
4		0.8875	47.96	-10.24	37.72	68.66	-30.94	peak
5		1.1413	43.53	-10.22	33.31	66.48	-33.17	peak
6		2.1662	39.53	-10.14	29.39	69.54	-40.15	peak

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 6 (portable)	Polarization :	Horizontal

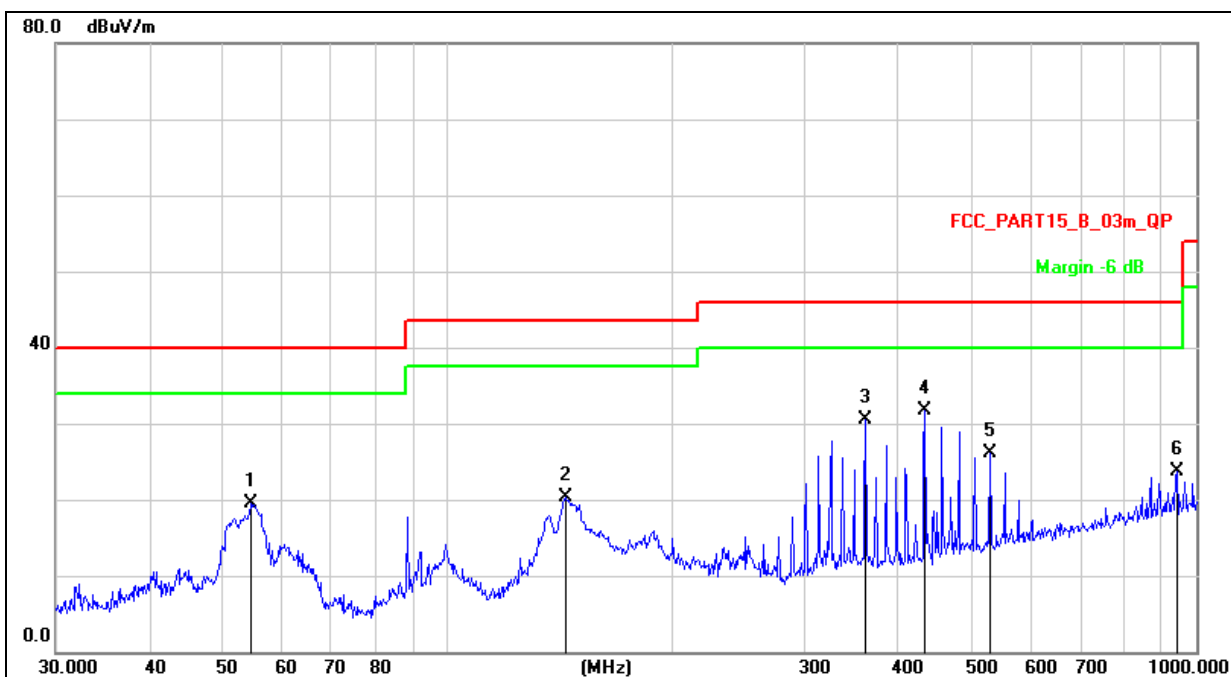


Remark:

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	Detector
	MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	44.1202	36.79	-16.25	20.54	40.00	-19.46	QP
2	55.2207	39.44	-16.37	23.07	40.00	-16.93	QP
3	143.8295	47.30	-20.64	26.66	43.50	-16.84	QP
4	300.3672	48.66	-14.57	34.09	46.00	-11.91	QP
5 *	361.7139	54.83	-12.65	42.18	46.00	-3.82	QP
6	457.5072	42.85	-11.30	31.55	46.00	-14.45	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 6 (portable)	Polarization :	Vertical

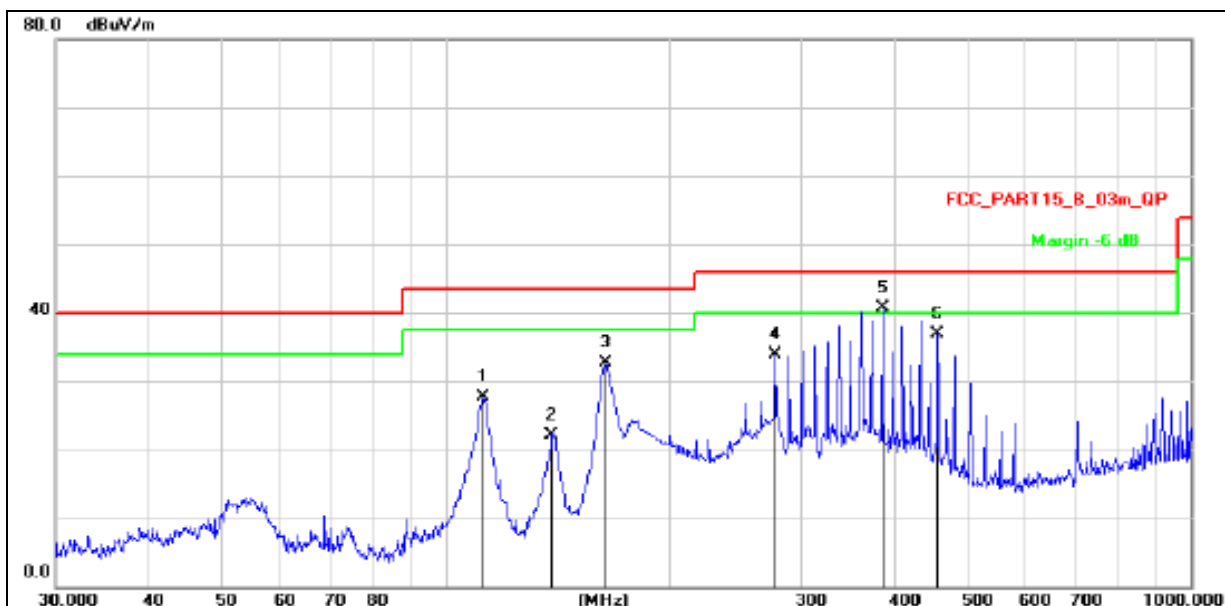


Remark:

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	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		54.6429	35.70	-16.29	19.41	40.00	-20.59	QP
2		143.8295	40.92	-20.64	20.28	43.50	-23.22	QP
3		361.7139	43.25	-12.65	30.60	46.00	-15.40	QP
4	*	434.0650	43.33	-11.72	31.61	46.00	-14.39	QP
5		530.1014	35.96	-9.81	26.15	46.00	-19.85	QP
6		942.1304	27.93	-4.13	23.80	46.00	-22.20	QP

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

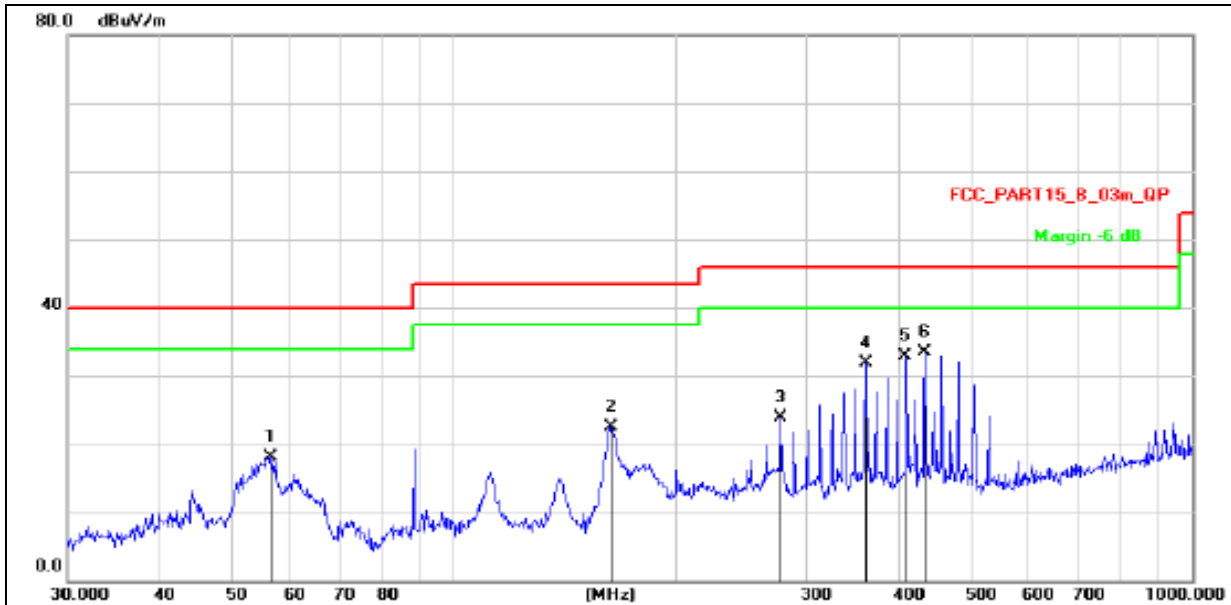


Remark:

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	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		112.1305	46.20	-18.56	27.64	43.50	-15.86	QP
2		138.8735	42.52	-20.32	22.20	43.50	-21.30	QP
3		164.3301	52.61	-20.00	32.61	43.50	-10.89	QP
4		277.0935	49.07	-15.15	33.92	46.00	-12.08	QP
5	*	385.2805	53.11	-12.38	40.73	46.00	-5.27	QP
6		457.5072	48.11	-11.30	36.81	46.00	-9.19	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1(mobile)	Polarization :	Vertical



Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		56.5929	34.65	-16.58	18.07	40.00	-21.93	QP
2		163.1818	42.63	-20.08	22.55	43.50	-20.95	QP
3		277.0935	39.07	-15.15	23.92	46.00	-22.08	QP
4		361.7139	44.53	-12.65	31.88	46.00	-14.12	QP
5		408.9460	45.07	-12.08	32.99	46.00	-13.01	QP
6	*	434.0650	45.22	-11.72	33.50	46.00	-12.50	QP

8. Bandwidth Test

8.1 Test Setup



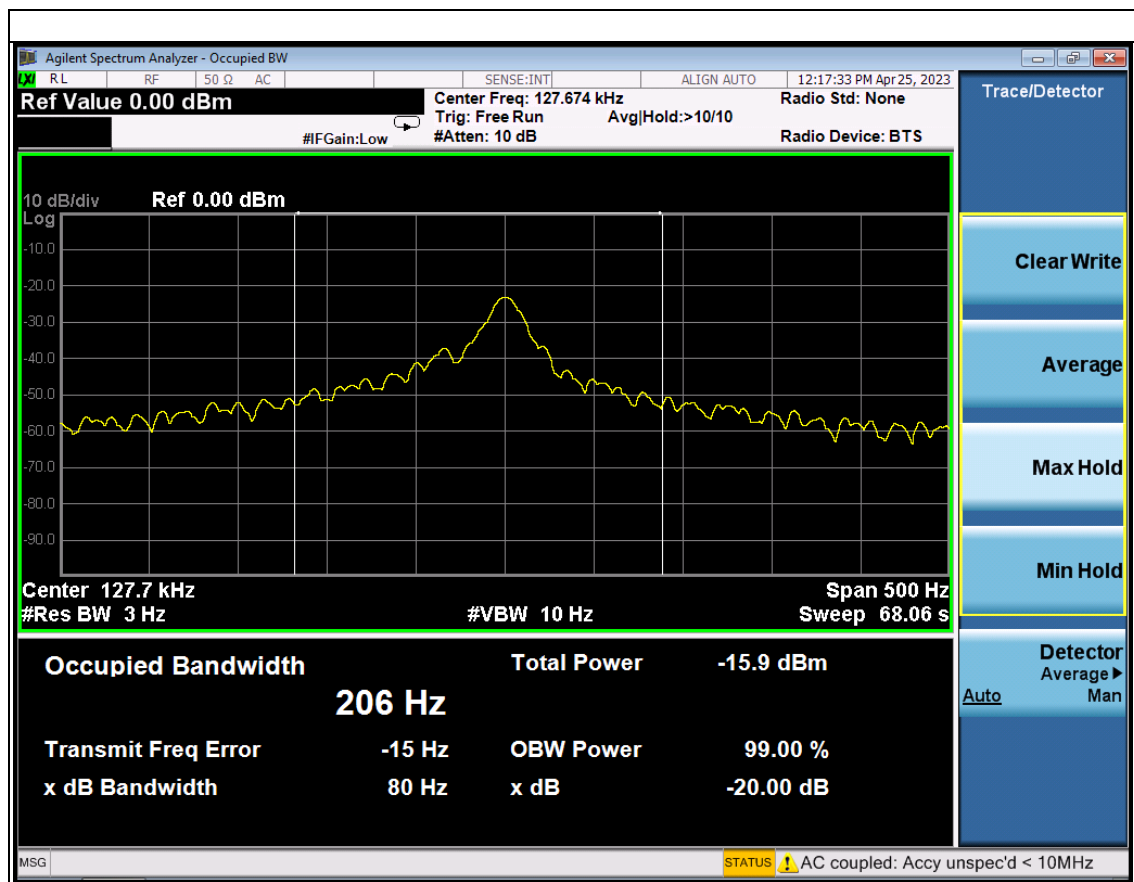
8.2 Test Procedure

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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.

8.3 Test Result

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa		

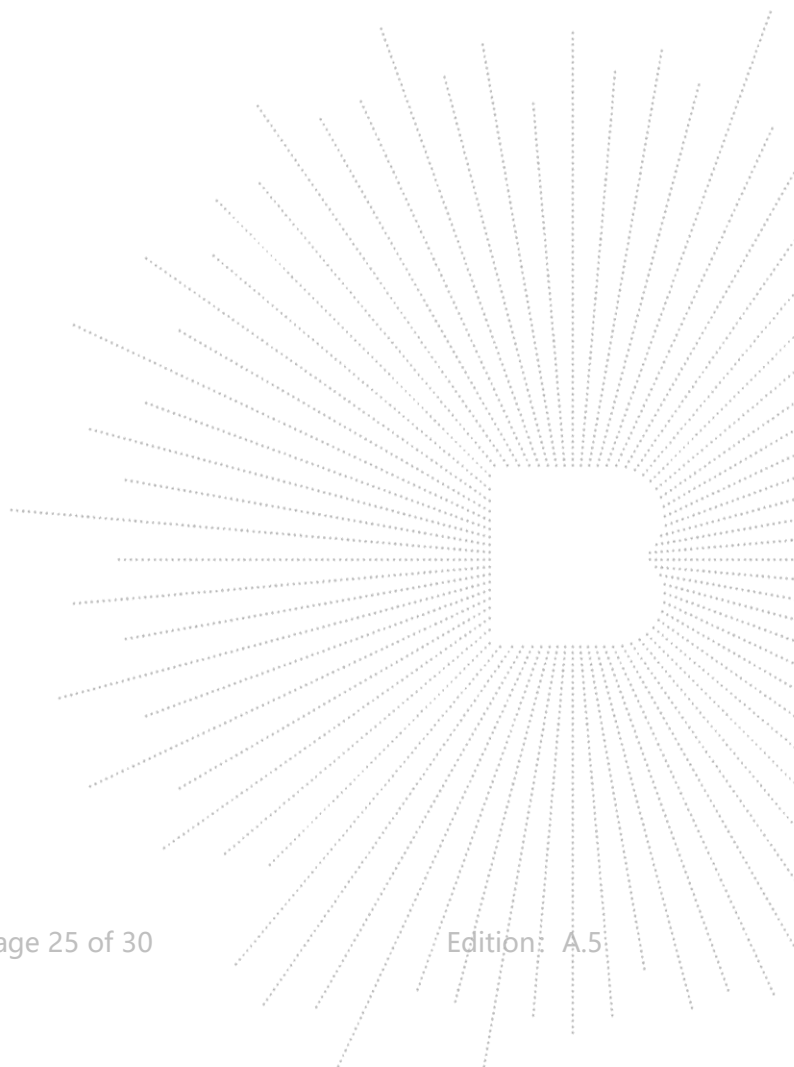
Frequency (KHz)	20dB bandwidth (Hz)	Result
127.7	80	Pass



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.

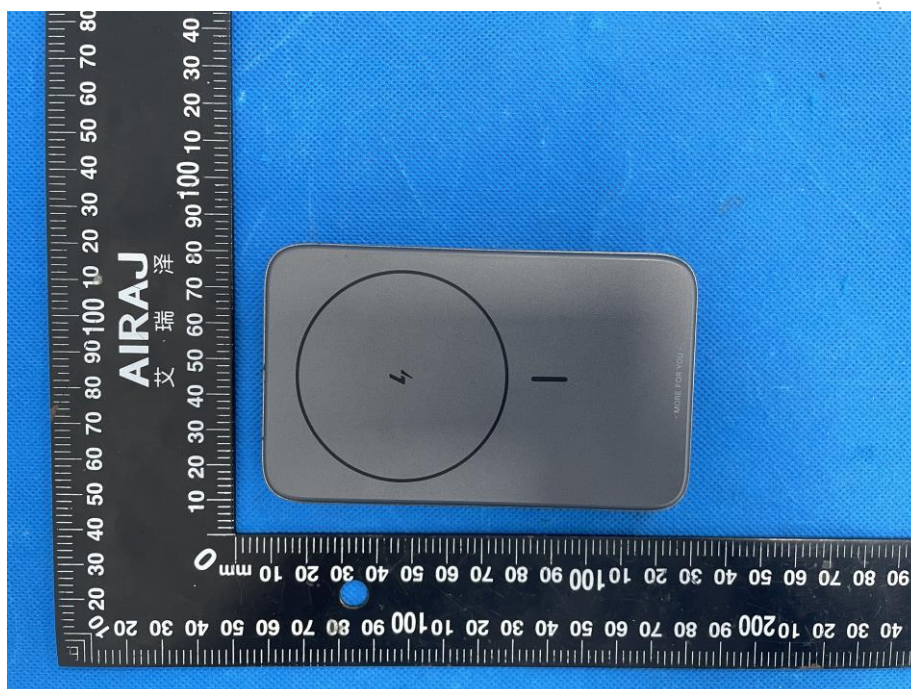


10. EUT Photographs

EUT Photo 1

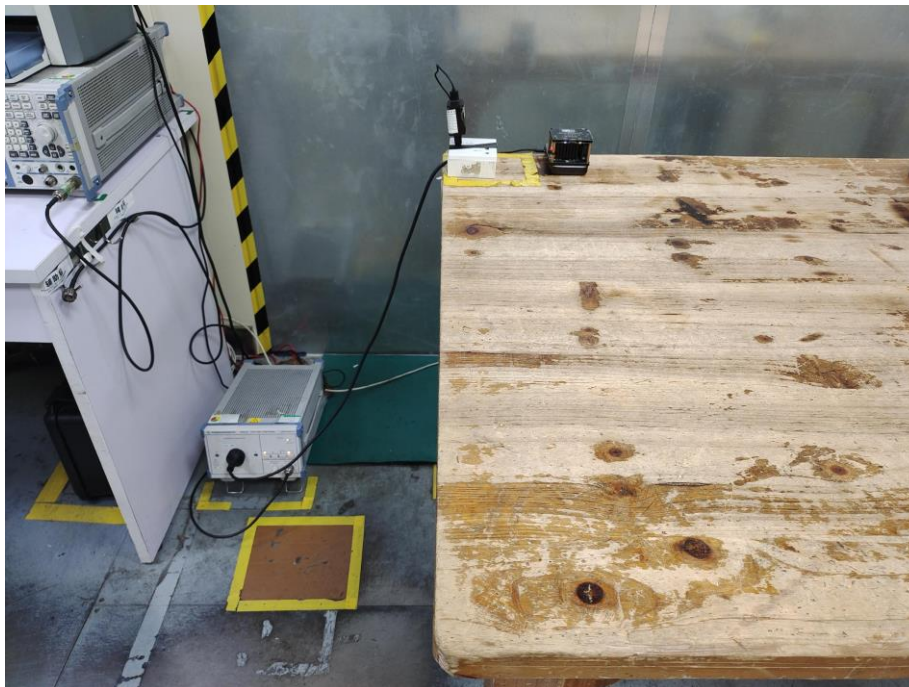


EUT Photo 2

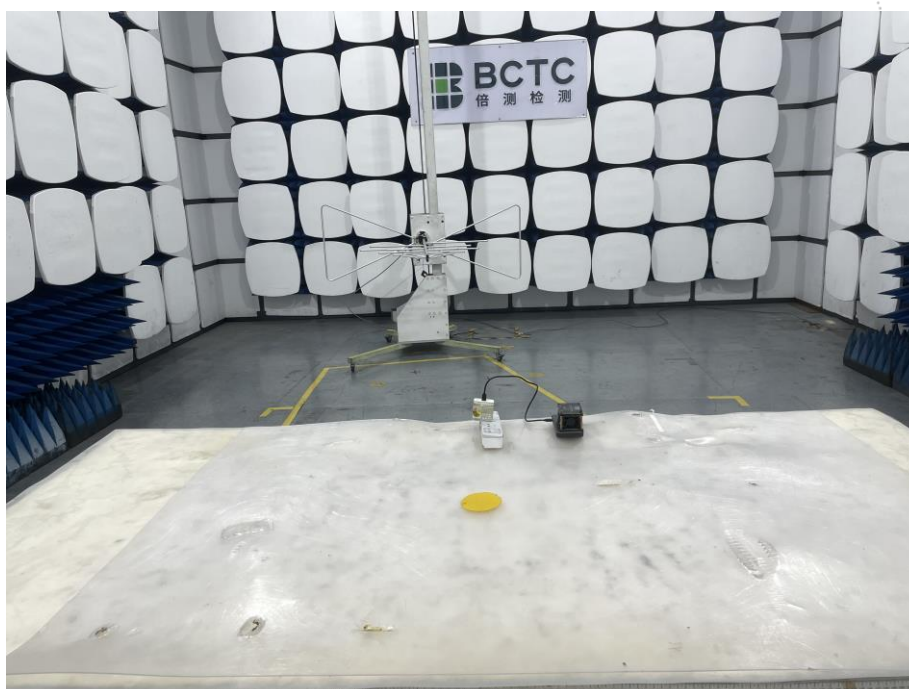


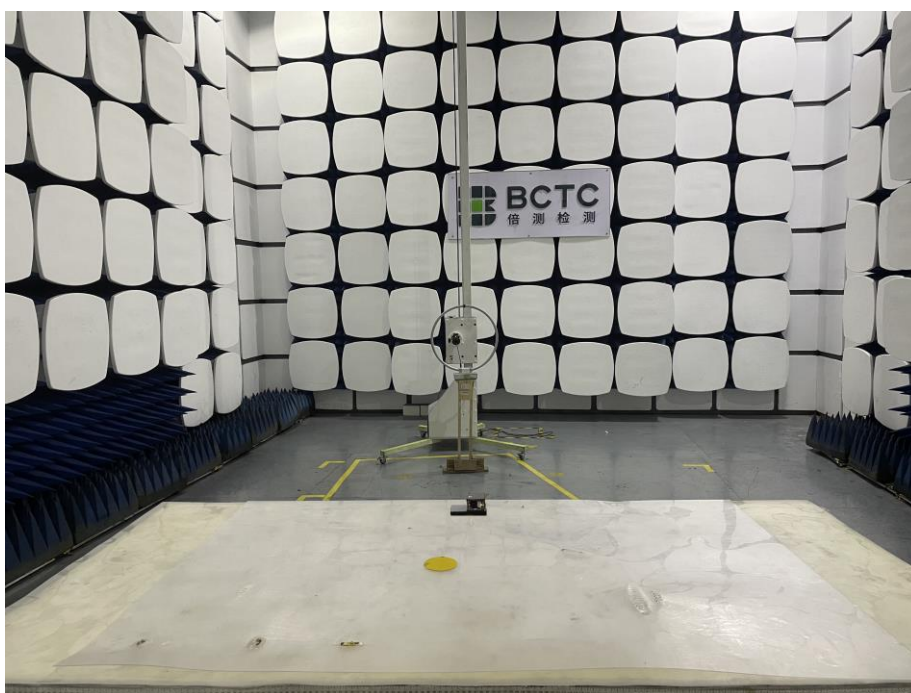
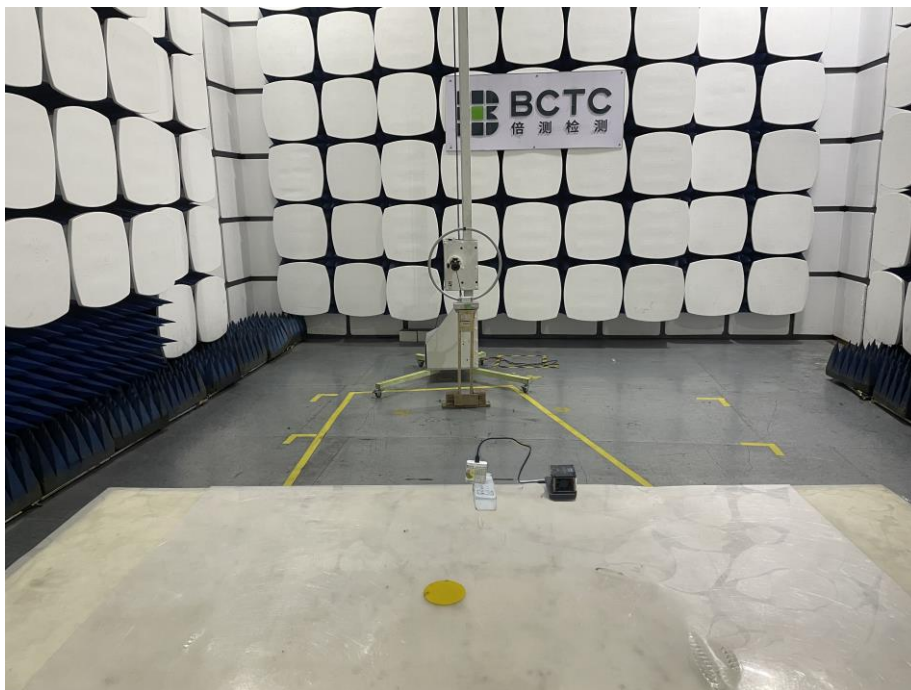
11. EUT Test Setup Photographs

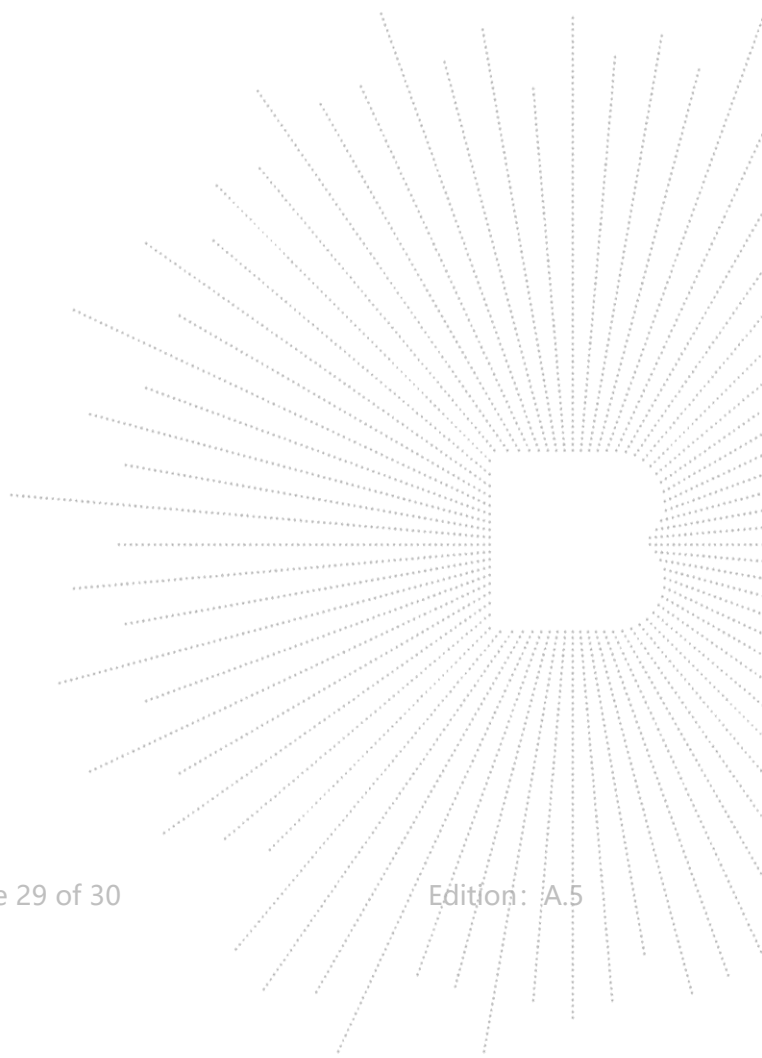
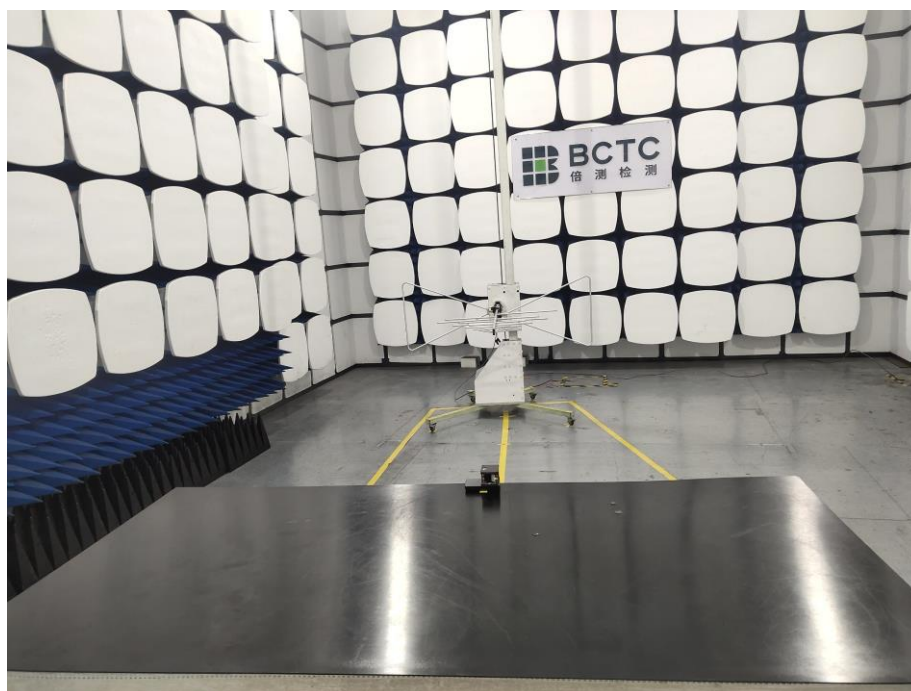
Conducted Emissions Photo



Radiated Measurement Photos







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.

Address:

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