BCTC

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TEST REPORT

Report No.:	BCTC2409305095-1E
Applicant:	Ugreen Group Limited
Product Name:	Magnetic Wireless Power Bank
Test Model:	PB562
Tested Date:	2024-09-02 to 2024-10-30
Issued Date:	2024-11-04

Shenzhen BCTC Testing Co., Ltd.

FCC ID:2AQI5-PB562

Product Name:	Magnetic Wireless Power Bank
Trademark:	UGREEN
Model/Type Reference:	PB562
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:	2024-09-02
Sample Tested Date:	2024-09-02 to 2024-10-30
Issue Date:	2024-11-04
Report No.:	BCTC2409305095-1E
Test Standards:	FCC Part15.209 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

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2409305095-1E	2024-11-04	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(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℃

4. Product Information And Test Setup

4.1 Product Information

Model/Type Reference:	PB562
P/N code Differences:	All the P/N code and test models are the same circuit and RF module, except for the appearance color and sales platform. 45209 is white, 55140 is black, the test code is 45209.
Hardware Version:	A03
Software Version:	V1
Operation Frequency:	112kHz-148.5kHz
Modulation:	FSK
Antenna installation:	loop coil antenna
Ratings:	USB-C (IN) Input:5V⎓3A/9V⎓2.22A USB-C (OUT) Output:5V⎓2.4A/5V⎓3A/9V⎓2.22A/12V⎓1.67A Wireless Charging Output Power:7.5W Cell Capacity: 10000mAh (2*5000mAh) Polymer Lithium-ion Battery Rated Energy: 36Wh (3.6V 10000mAh) Rated Capacity: 6000mAh (TYP 5V 2.4A)

Remark:
- P/N code in the below table, for marketing purpose, will be marked on the marking plate.

45209	45209P	45209X	45209A	45209B	45209C	45209U	45209JP	45209ZD
55140	55140P	55140X	55140A	55140B	55140C	55140U	55140JP	55140ZD

Battery cell manufacturer is differences. Radiated emissions and Conducted emissions tests were performed.
Battery manufacturer 1: Amprius (wuxi) Co., Ltd.
Battery manufacturer 2: LIFAN TECHNOLOGY CO., LTD

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Magnetic Wireless Power Bank	UGREEN	PB562	N/A	EUT
E-2	Adapter	UGREEN	CD289	N/A	Auxiliary
E-3	Dummy load	N/A	DL01	N/A	Auxiliary

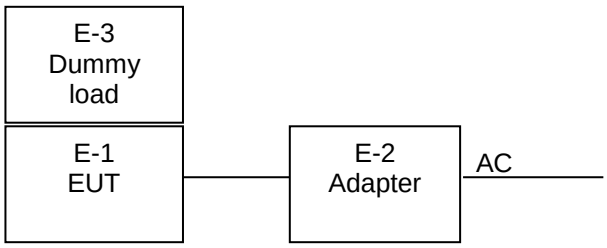
Notes:
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 Test Setup Configuration

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

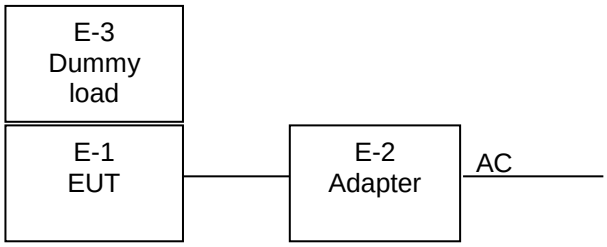
Conducted Emission:

Test Mode 1, 2

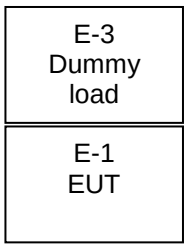


Radiated Spurious Emission:

Test Mode 1, 2



Test Mode 3,4,5



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.

Battery manufacturer 1:

AC Mode	Mode 1	USB-C IN :(5V⎓3A)+5W
	Mode 2	USB-C IN :(9V⎓2.22A)+7.5W
DC Mode	Mode 3	Wireless charge 5W
	Mode 4	Wireless charge 7.5W

Battery manufacturer 2:

AC Mode	Mode 1	USB-C IN :(5V⎓3A)+5W
	Mode 2	USB-C IN :(9V⎓2.22A)+7.5W
DC Mode	Mode 3	Wireless charge 5W
	Mode 4	Wireless charge 7.5W

Note: All test mode were tested and passed, only shows the worst case mode which were recorded in this report.

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

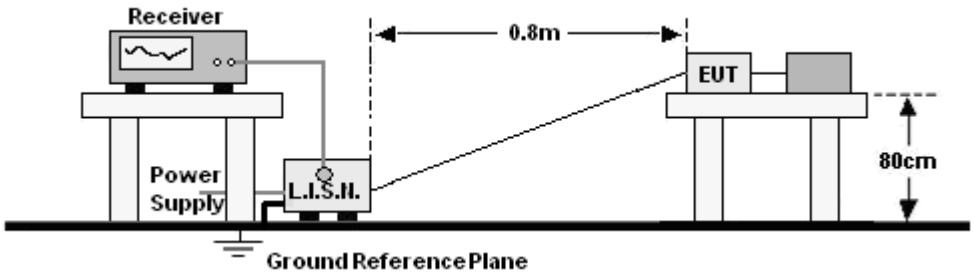
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power Meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\	May 16, 2024	May 15, 2025

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
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: 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.

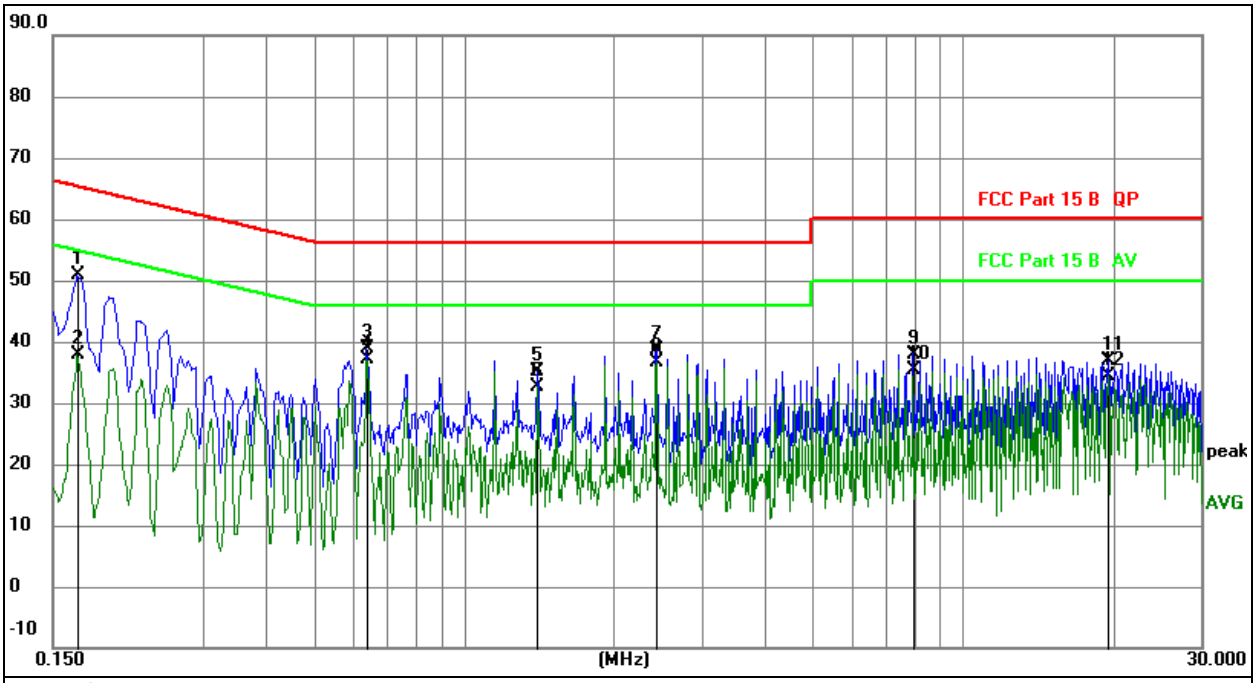
6.4 EUT operating Conditions

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.

6.5 Test Result

Battery manufacturer 1

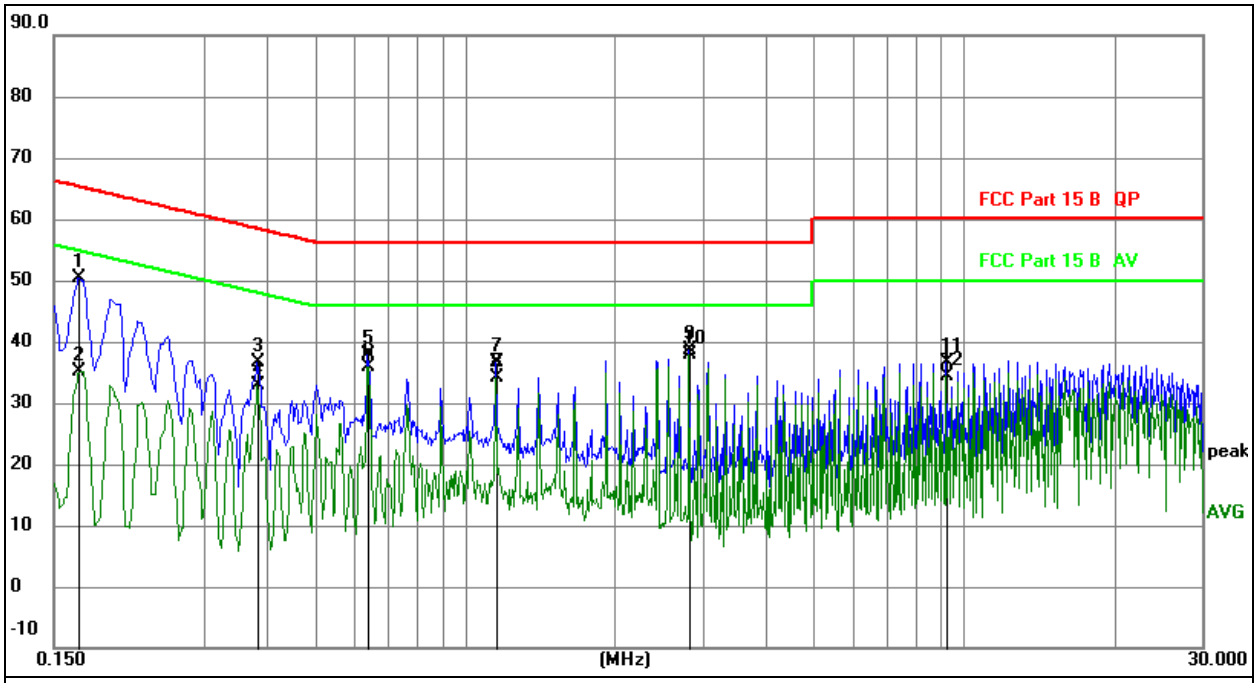
Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



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	dBuV	dBuV	dB	Detector
1		0.1677	30.85	20.07	50.92	65.07	-14.15	QP
2		0.1677	17.69	20.07	37.76	55.07	-17.31	AVG
3		0.6372	18.69	20.09	38.78	56.00	-17.22	QP
4	*	0.6372	16.93	20.09	37.02	46.00	-8.98	AVG
5		1.4032	15.14	20.09	35.23	56.00	-20.77	QP
6		1.4032	12.46	20.09	32.55	46.00	-13.45	AVG
7		2.4346	18.56	20.11	38.67	56.00	-17.33	QP
8		2.4346	16.64	20.11	36.75	46.00	-9.25	AVG
9		7.9353	17.84	20.16	38.00	60.00	-22.00	QP
10		7.9353	15.17	20.16	35.33	50.00	-14.67	AVG
11		19.5316	16.55	20.33	36.88	60.00	-23.12	QP
12		19.5316	13.94	20.33	34.27	50.00	-15.73	AVG

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz

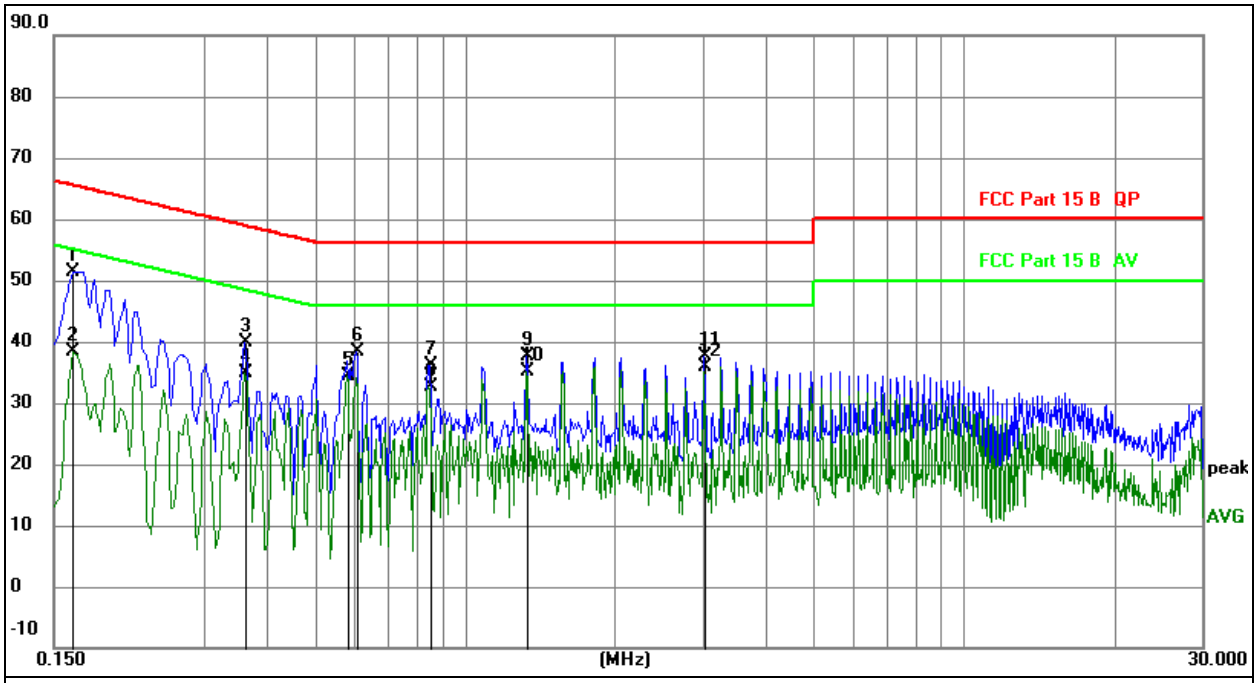


Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1680	30.31	20.07	50.38	65.06	-14.68	QP
2		0.1680	15.13	20.07	35.20	55.06	-19.86	AVG
3		0.3840	16.54	20.08	36.62	58.19	-21.57	QP
4		0.3840	12.79	20.08	32.87	48.19	-15.32	AVG
5		0.6405	17.90	20.09	37.99	56.00	-18.01	QP
6		0.6405	15.90	20.09	35.99	46.00	-10.01	AVG
7		1.1535	16.57	20.09	36.66	56.00	-19.34	QP
8		1.1535	14.14	20.09	34.23	46.00	-11.77	AVG
9		2.8184	18.52	20.12	38.64	56.00	-17.36	QP
10	*	2.8184	17.79	20.12	37.91	46.00	-8.09	AVG
11		9.2265	16.54	20.17	36.71	60.00	-23.29	QP
12		9.2265	14.20	20.17	34.37	50.00	-15.63	AVG

Battery manufacturer 2

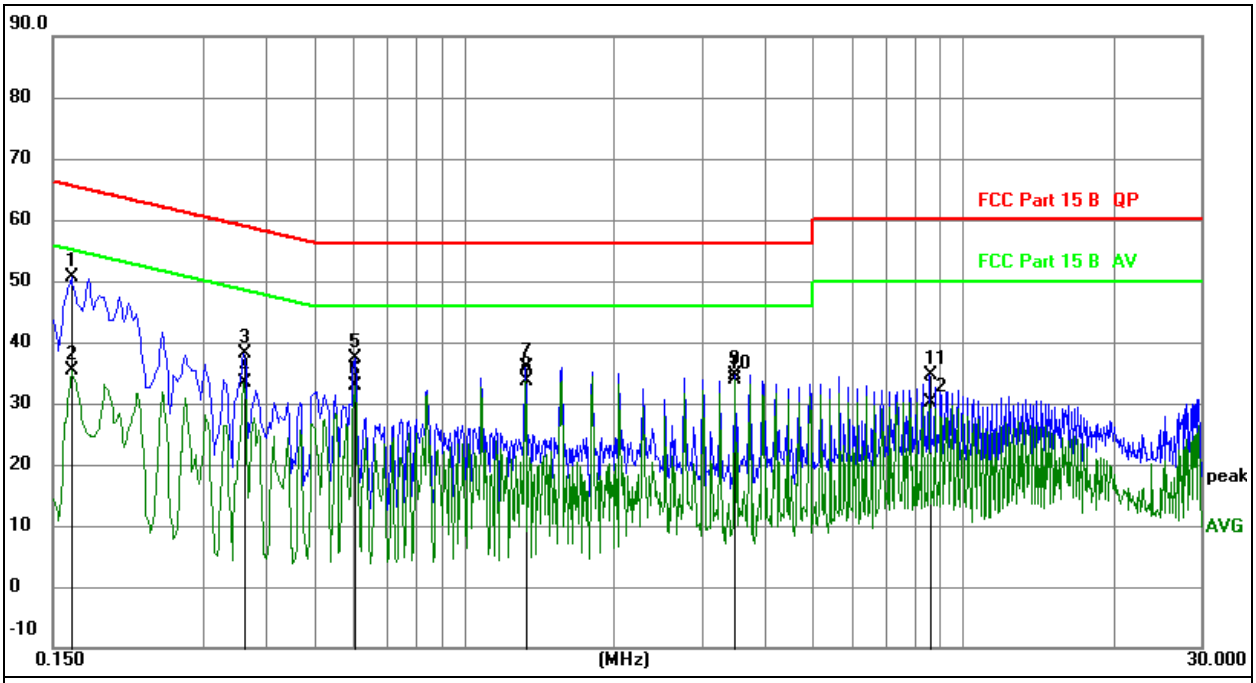
Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



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	dBuV	dBuV	dB	Detector
1		0.1635	31.31	20.07	51.38	65.28	-13.90	QP
2		0.1635	18.26	20.07	38.33	55.28	-16.95	AVG
3		0.3615	19.69	20.08	39.77	58.69	-18.92	QP
4		0.3615	14.80	20.08	34.88	48.69	-13.81	AVG
5		0.5820	14.21	20.08	34.29	46.00	-11.71	AVG
6		0.6045	18.40	20.09	38.49	56.00	-17.51	QP
7		0.8520	16.08	20.09	36.17	56.00	-19.83	QP
8		0.8520	12.53	20.09	32.62	46.00	-13.38	AVG
9		1.3290	17.50	20.09	37.59	56.00	-18.41	QP
10		1.3290	15.04	20.09	35.13	46.00	-10.87	AVG
11		3.0164	17.41	20.12	37.53	56.00	-18.47	QP
12	*	3.0164	15.85	20.12	35.97	46.00	-10.03	AVG

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



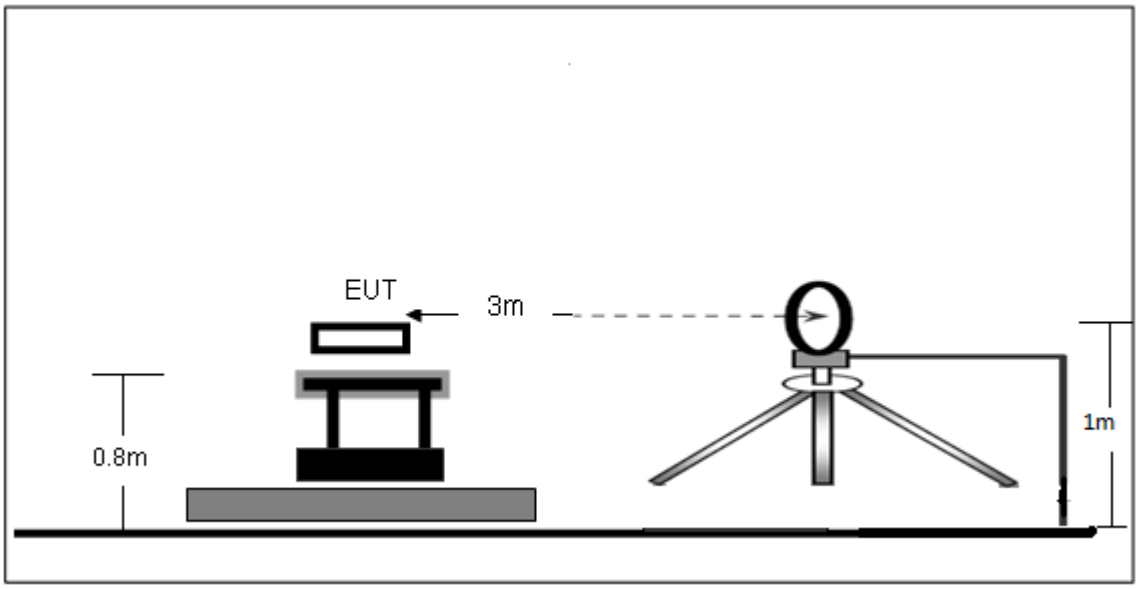
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1633	30.46	20.07	50.53	65.29	-14.76	QP
2		0.1633	15.35	20.07	35.42	55.29	-19.87	AVG
3		0.3615	18.10	20.08	38.18	58.69	-20.51	QP
4		0.3615	13.35	20.08	33.43	48.69	-15.26	AVG
5		0.6043	17.17	20.09	37.26	56.00	-18.74	QP
6		0.6043	12.75	20.09	32.84	46.00	-13.16	AVG
7		1.3238	15.87	20.09	35.96	56.00	-20.04	QP
8		1.3238	13.61	20.09	33.70	46.00	-12.30	AVG
9		3.4906	14.54	20.13	34.67	56.00	-21.33	QP
10	*	3.4906	13.64	20.13	33.77	46.00	-12.23	AVG
11		8.5463	14.36	20.17	34.53	60.00	-25.47	QP
12		8.5463	9.91	20.17	30.08	50.00	-19.92	AVG

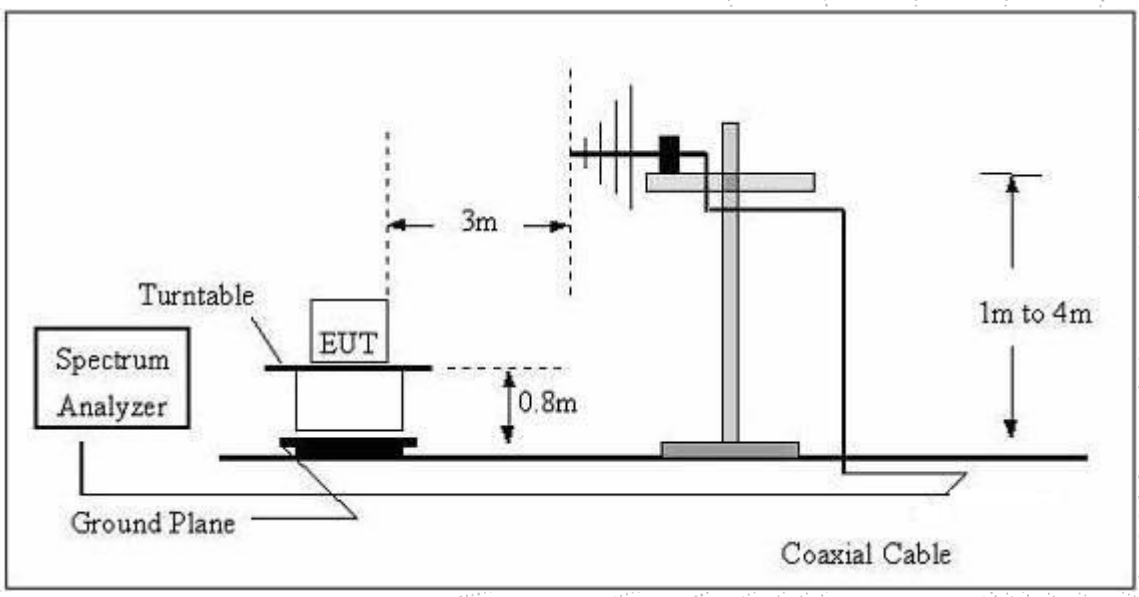
7. Radiated Emissions

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

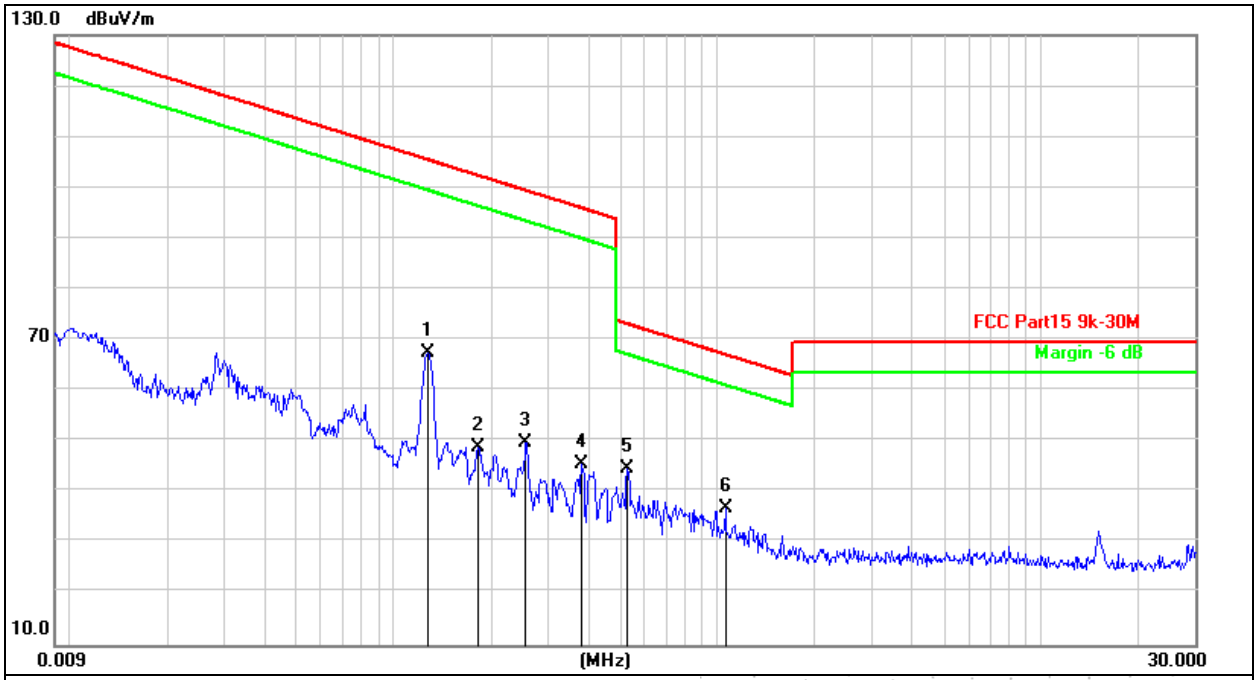
Below 1GHz test procedure as below:
a.The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b.The EUT was set 3 meters away from the interference-receiving 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.
f.If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Above 1GHz test procedure as below:
g.Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
h.Test the EUT in the lowest channel ,the middle channel ,the Highest channel.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 Test Result

9kHz-30MHz

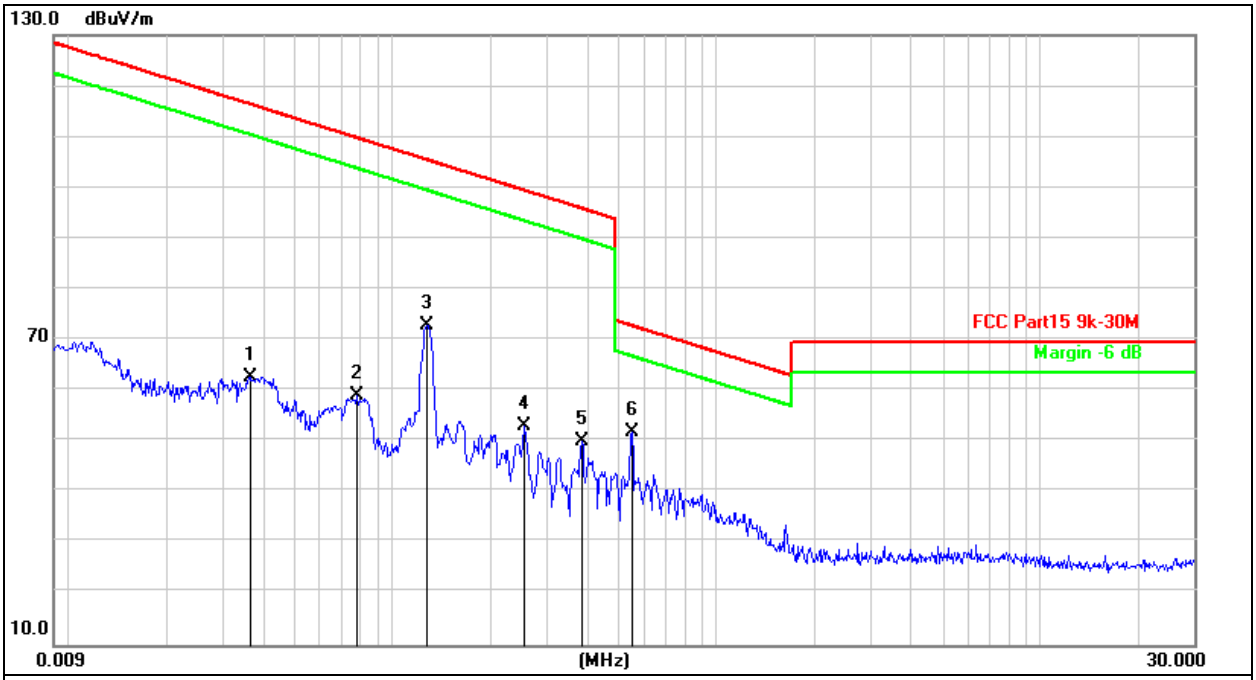
Battery manufacturer 1

Temperature:	26℃	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 2 (112kHz-148.5kHz)	Polarization:	Coaxial(Worst)



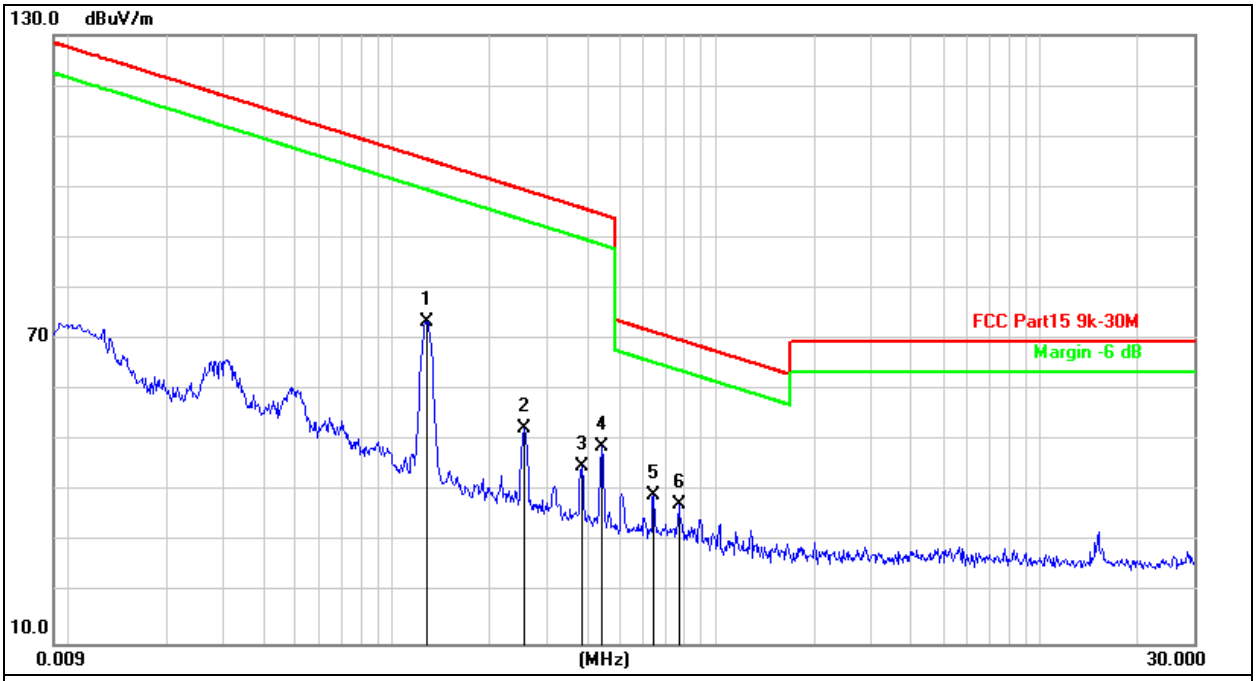
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		0.1276	74.90	-7.54	67.36	105.4	-38.13	peak
2		0.1825	56.68	-7.71	48.97	102.3	-53.41	peak
3		0.2566	57.51	-7.74	49.77	99.42	-49.65	peak
4		0.3818	53.27	-7.65	45.62	95.97	-50.35	peak
5	*	0.5281	52.12	-7.54	44.58	73.15	-28.57	peak
6		1.0610	44.07	-7.36	36.71	67.11	-30.40	peak

Temperature:	26℃	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 2 (112kHz-148.5kHz)	Polarization:	Coplanar(Worst)



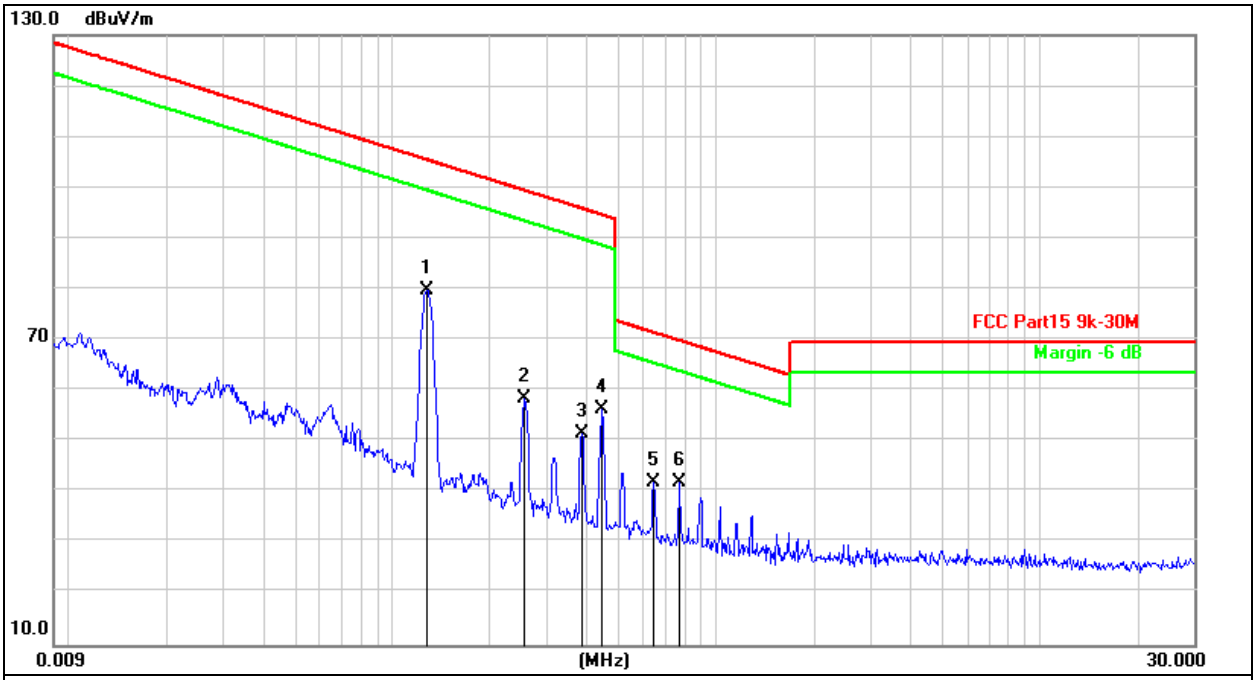
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		0.0363	70.14	-7.38	62.76	116.4	-53.65	peak
2		0.0779	66.56	-7.64	58.92	109.7	-50.85	peak
3		0.1276	80.44	-7.54	72.90	105.4	-32.59	peak
4		0.2566	60.72	-7.74	52.98	99.42	-46.44	peak
5		0.3849	57.64	-7.65	49.99	95.90	-45.91	peak
6	*	0.5500	59.24	-7.52	51.72	72.80	-21.08	peak

Temperature:	26℃	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	DC 3.6V
Test Mode:	Mode 4 (112kHz-148.5kHz)	Polarization:	Coaxial(Worst)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	0.1276	81.06	-7.54	73.52	105.4	-31.97	peak
2		0.2566	60.17	-7.74	52.43	99.42	-46.99	peak
3		0.3849	52.61	-7.65	44.96	95.90	-50.94	peak
4		0.4454	56.51	-7.61	48.90	94.63	-45.73	peak
5		0.6416	46.53	-7.42	39.11	71.47	-32.36	peak
6		0.7669	44.82	-7.36	37.46	69.92	-32.46	peak

Temperature:	26℃	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	DC 3.6V
Test Mode:	Mode 4 (112kHz-148.5kHz)	Polarization:	Coplanar(Worst)

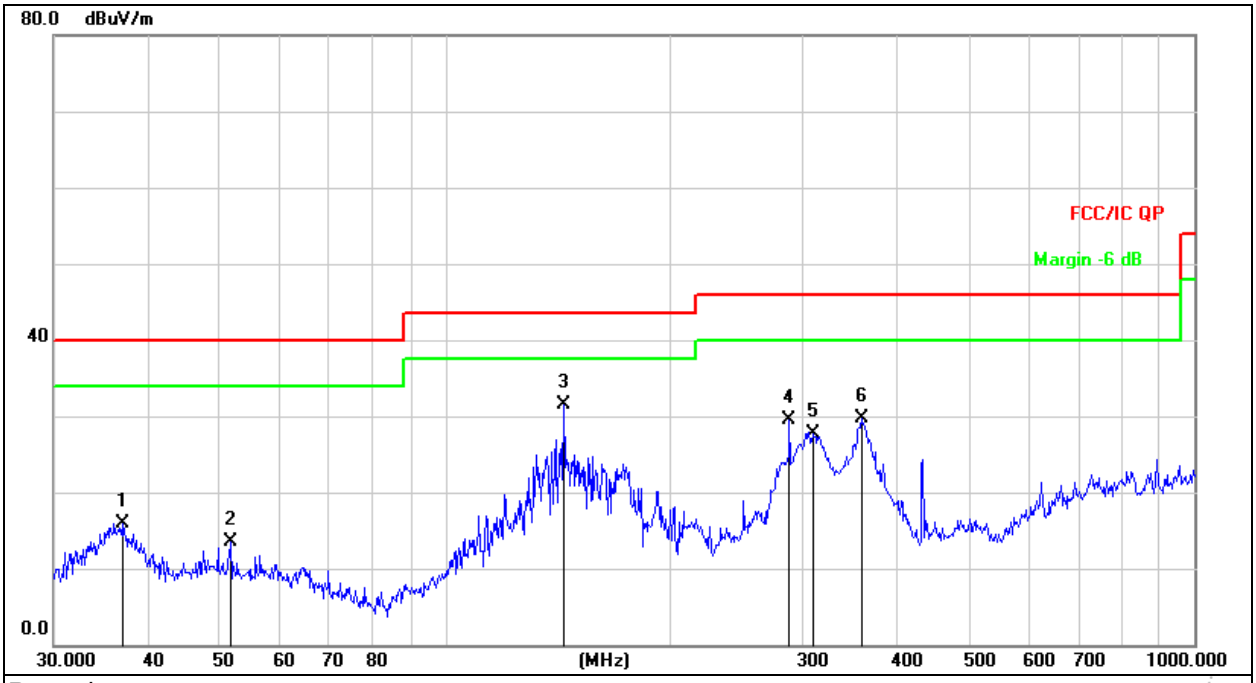


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	0.1276	87.26	-7.54	79.72	105.4	-25.77	peak
2		0.2566	66.16	-7.74	58.42	99.42	-41.00	peak
3		0.3849	59.06	-7.65	51.41	95.90	-44.49	peak
4		0.4454	64.07	-7.61	56.46	94.63	-38.17	peak
5		0.6416	49.39	-7.42	41.97	71.47	-29.50	peak
6		0.7669	49.27	-7.36	41.91	69.92	-28.01	peak

Between 30MHz – 1GHz

Battery manufacturer 1

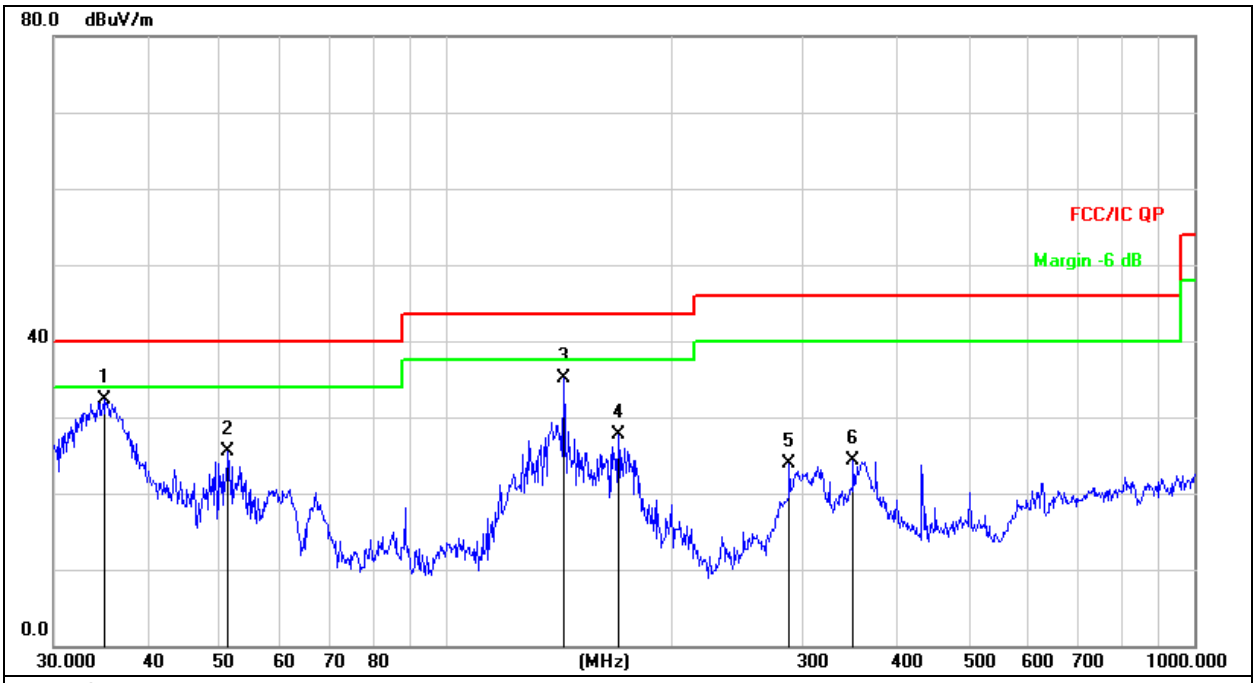
Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



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		37.0248	31.13	-15.29	15.84	40.00	-24.16	QP
2		51.6616	27.61	-14.12	13.49	40.00	-26.51	QP
3	*	143.8295	50.49	-19.00	31.49	43.50	-12.01	QP
4		287.9904	43.06	-13.49	29.57	46.00	-16.43	QP
5		309.9977	40.53	-12.89	27.64	46.00	-18.36	QP
6		359.1860	41.02	-11.36	29.66	46.00	-16.34	QP

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz

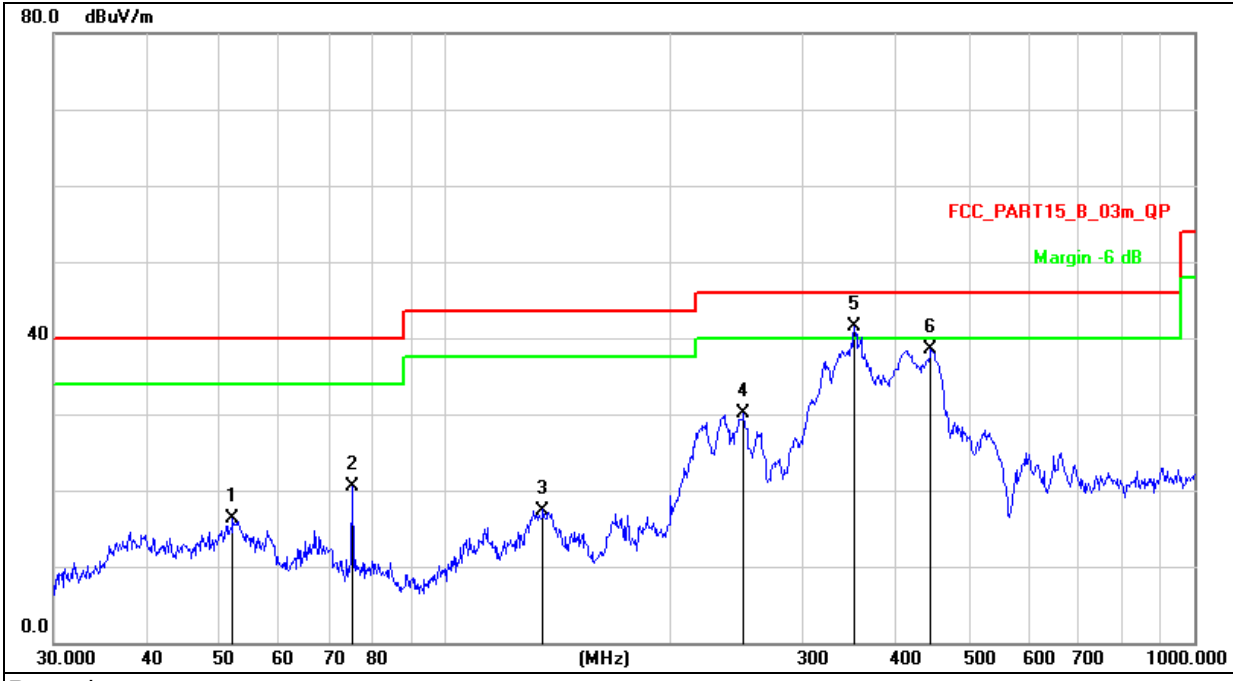


Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	35.1278	47.88	-15.66	32.22	40.00	-7.78	QP
2		51.3005	39.55	-14.08	25.47	40.00	-14.53	QP
3		143.8295	54.17	-19.00	35.17	43.50	-8.33	QP
4		170.1948	45.60	-17.93	27.67	43.50	-15.83	QP
5		287.9904	37.34	-13.49	23.85	46.00	-22.15	QP
6		350.4768	35.81	-11.47	24.34	46.00	-21.66	QP

Battery manufacturer 2

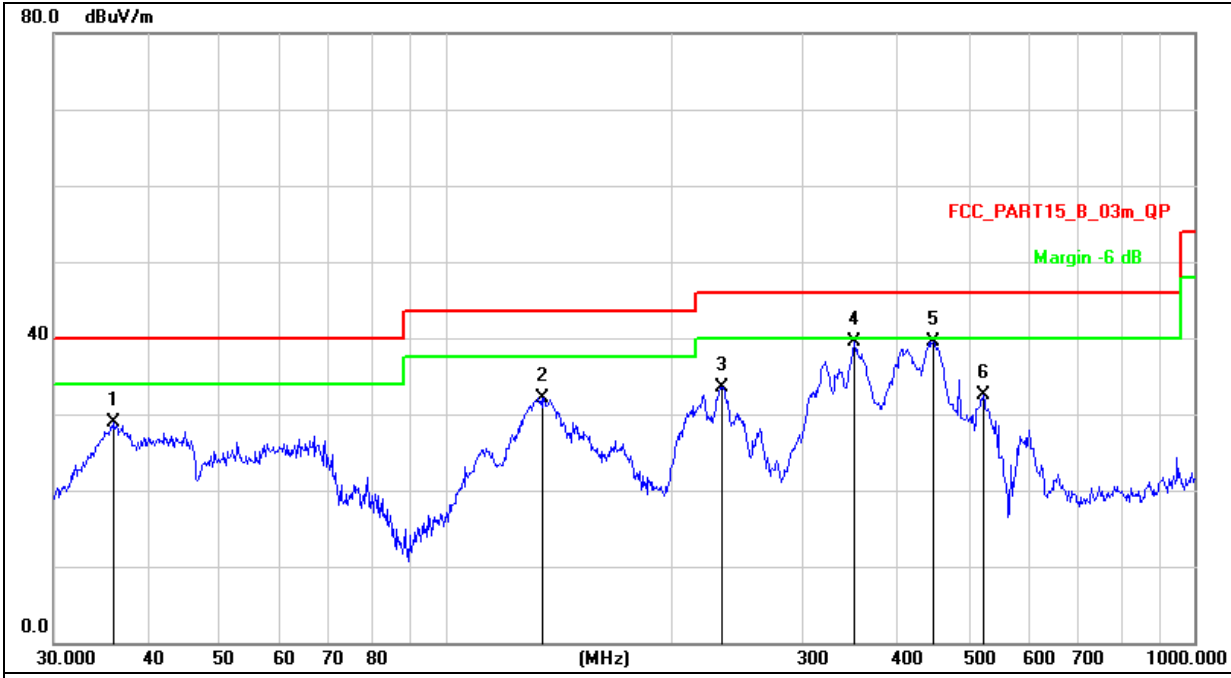
Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



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		52.0251	30.43	-14.17	16.26	40.00	-23.74	QP
2		75.1822	39.48	-18.91	20.57	40.00	-19.43	QP
3		135.0319	35.78	-18.38	17.40	43.50	-26.10	QP
4		250.3012	44.34	-14.28	30.06	46.00	-15.94	QP
5	*	351.7079	53.04	-11.46	41.58	46.00	-4.42	QP
6		444.8514	48.51	-9.96	38.55	46.00	-7.45	QP

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



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

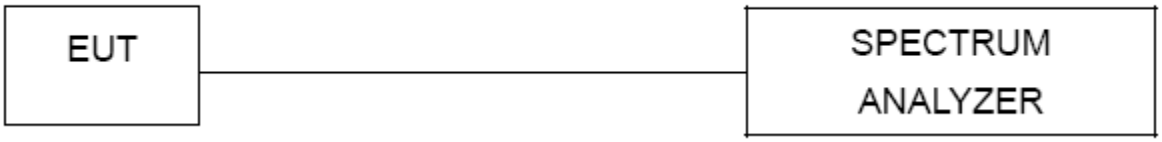
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		36.1272	44.28	-15.47	28.81	40.00	-11.19	QP
2		134.5592	50.51	-18.35	32.16	43.50	-11.34	QP
3		234.1684	48.28	-14.74	33.54	46.00	-12.46	QP
4	*	351.7079	51.01	-11.46	39.55	46.00	-6.45	QP
5		447.9822	49.45	-9.90	39.55	46.00	-6.45	QP
6		522.7180	41.84	-9.41	32.43	46.00	-13.57	QP

8. Bandwidth Test

8.1 Test Procedure

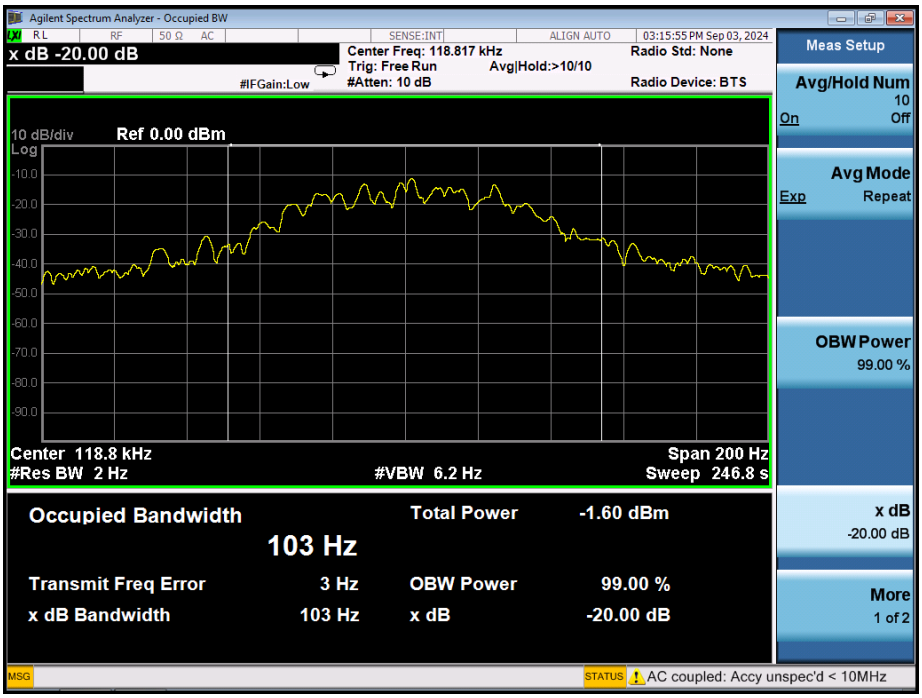
1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

8.2 Test Setup



8.3 Test Result

Frequency (kHz)	20dB bandwidth (kHz)	Result
118.8	0.103	Pass



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 antenna used for this product is loop coil antenna.

10. EUT Photographs

NOTE: Appendix-Photographs Of EUT Constructional Details

11. EUT Test Setup Photographs

NOTE: Appendix-Test 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 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:
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

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

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