

TEST REPORT

Report No.: BCTC2212153868-1E

Applicant: BEZALEL INC.

Product Name: Prelude X Wireless Power Bank

Model/Type Ref.: BZ1PX20

Tested Date: 2022-12-06 to 2023-03-27

Issued Date: 2023-03-27

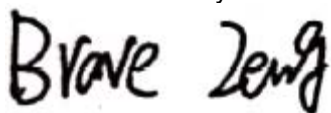
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AS7K-BZ1PX20

Product Name: Prelude X Wireless Power Bank
Trademark: BEZALEL
Model/Type Ref.: BZ1PX20
Prepared For: BEZALEL INC.
Address: 3528 Torrance Blvd., Ste. 215, Torrance, CA 90503, United States
Manufacturer: BEZALEL INC.
Address: 3528 Torrance Blvd., Ste. 215, Torrance, CA 90503, United States
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: 2022-12-06
Sample tested Date: 2022-12-06 to 2023-03-27
Issue Date: 2023-03-27
Report No.: BCTC2212153868-1E
Test Standards: FCC Part15.209
ANSI C63.10-2013
Test Results: PASS

Tested by:



Brave Zeng/ 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 Report Declaration	Page
1. Version	4
2. Test Summary	5
3. Measurement Uncertainty	6
4. Product Information And Test Setup	7
4.1 Product Information	7
4.2 Support Equipment	7
4.3 Test Setup Configuration	8
4.4 Test Mode	8
5. Test Facility And Test Instrument Used	9
5.1 Test Facility	9
5.2 Test Instrument Used	9
6. Conducted Emissions	11
6.1 Block Diagram Of Test Setup	11
6.2 Limit	11
6.3 Test Procedure	11
6.4 EUT Operating Conditions	11
6.5 Test Result (Coil ANT 2)	12
Coil ANT 1	14
7. Radiated Emissions	16
7.1 Block Diagram Of Test Setup	16
7.2 Limit	17
7.3 Test Procedure	17
7.4 Test Result	18
8. Bandwidth Test	25
9. Antenna Requirements	28
10. EUT Photographs	29
11. EUT Test Setup Photographs	30

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2212153868-1E	2023-03-27	Original	Valid

TEST
TC
OVER
检

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

CO. LTD

4. Product Information And Test Setup

4.1 Product Information

Model/Type Ref.:	BZ1PX20
Model differences:	N/A
Product Description:	Prelude X Wireless Power Bank
Operation Frequency:	115kHz-205kHz
Antenna installation:	loop coil antenna
Ratings:	USB-C Input: 5V/3A;9V/2.2A Wireless Input:5V/1A;9V1.2A USB-C Output:5V/3A;9V/2.2A Wireless Output 1:5W,7.5W,10W,15W Wireless Output 2:3W
Hardware Version:	N/A
Software Version:	N/A

Cable of Product

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

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	Wireless 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.

Test Modes 1	USB-C Input:Charging(5V3A)
Test Modes 2	USB-C Input:Charging(9V2.2A)
Test Modes 3	Wireless Input:5V/1A
Test Modes 4	Wireless Input:9V/1.2A
Test Modes 5	Charging +Wireless (5W)
Test Modes 6	Wireless Charging 3W
Test Modes 7	Wireless Charging 5W
Test Modes 8	Wireless Charging 7.5W
Test Modes 9	Wireless Charging 10W
Test Modes 10	Wireless Charging 15W
Test Modes 11	Type-C Output 5V3A
Test Modes 12	Type-C Output 9V2.22A
Test Modes 13	Type-C Output(5V1.25)+Wireless 5W

Note:

All test mode were tested and passed, only Conducted Emissions, Radiated Emissions Worst-case pattern recorded by the data 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
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 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

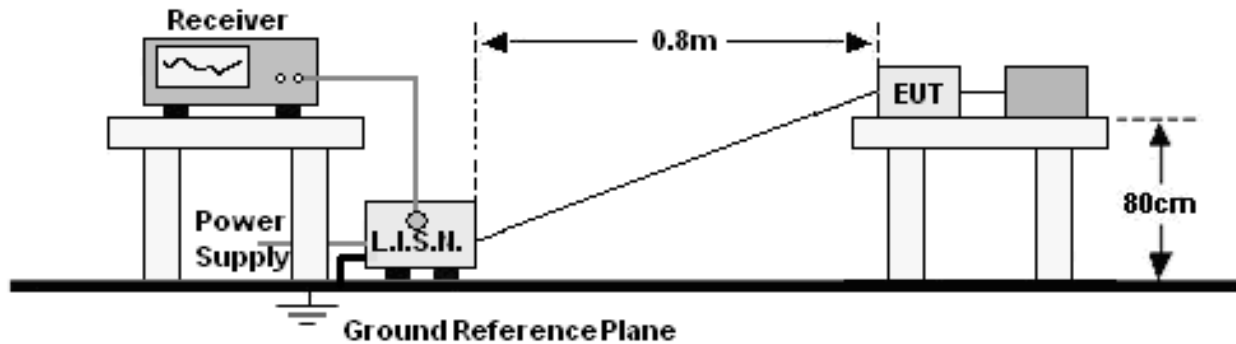
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz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

TE
TC
OVB
检

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

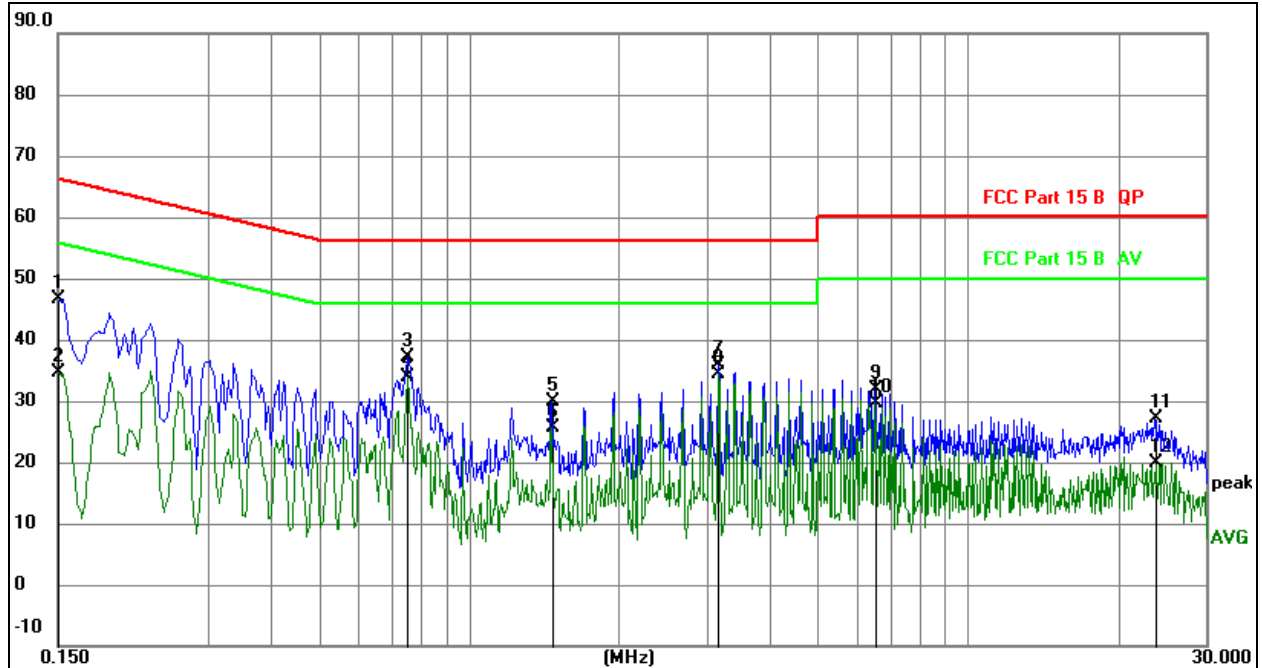
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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 (Coil ANT 2)

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 6

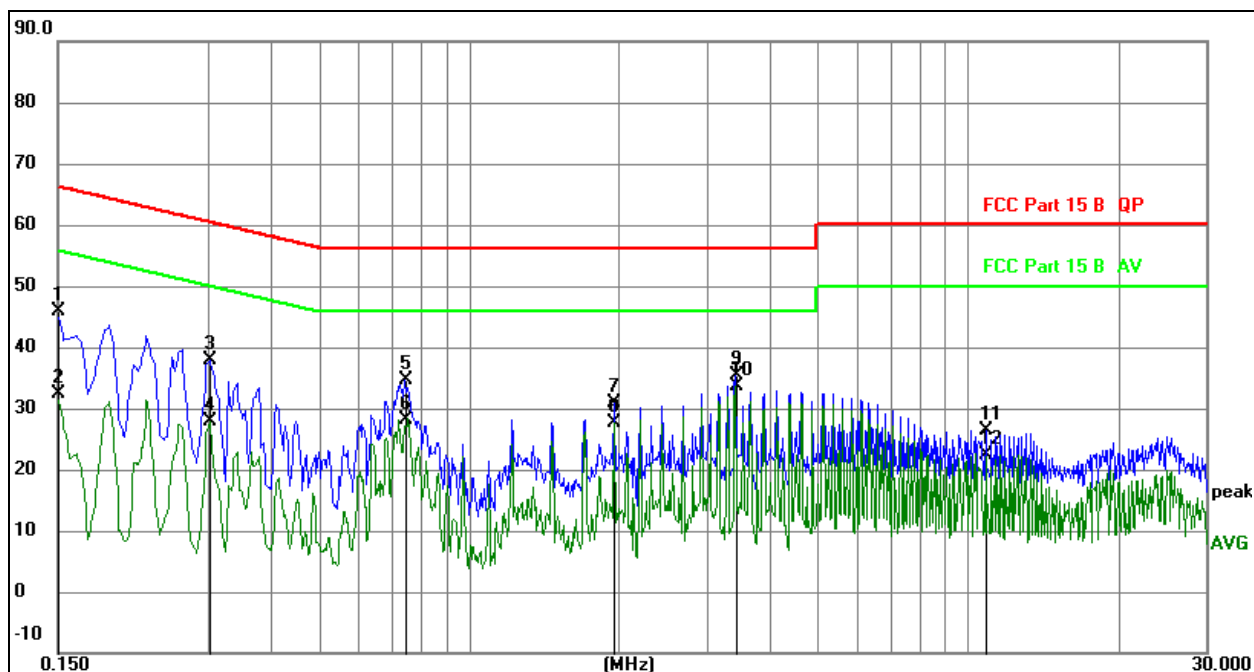


Remark:

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	0.1500	26.86	19.67	46.53	66.00	-19.47	QP
2	0.1500	14.99	19.67	34.66	56.00	-21.34	AVG
3	0.7549	17.38	19.74	37.12	56.00	-18.88	QP
4	0.7549	14.09	19.74	33.83	46.00	-12.17	AVG
5	1.4640	10.02	19.82	29.84	56.00	-26.16	QP
6	1.4640	5.86	19.82	25.68	46.00	-20.32	AVG
7	3.1563	15.97	20.01	35.98	56.00	-20.02	QP
8 *	3.1563	14.42	20.01	34.43	46.00	-11.57	AVG
9	6.4882	11.71	20.17	31.88	60.00	-28.12	QP
10	6.4882	9.35	20.17	29.52	50.00	-20.48	AVG
11	23.6361	6.71	20.52	27.23	60.00	-32.77	QP
12	23.6361	-0.59	20.52	19.93	50.00	-30.07	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 6

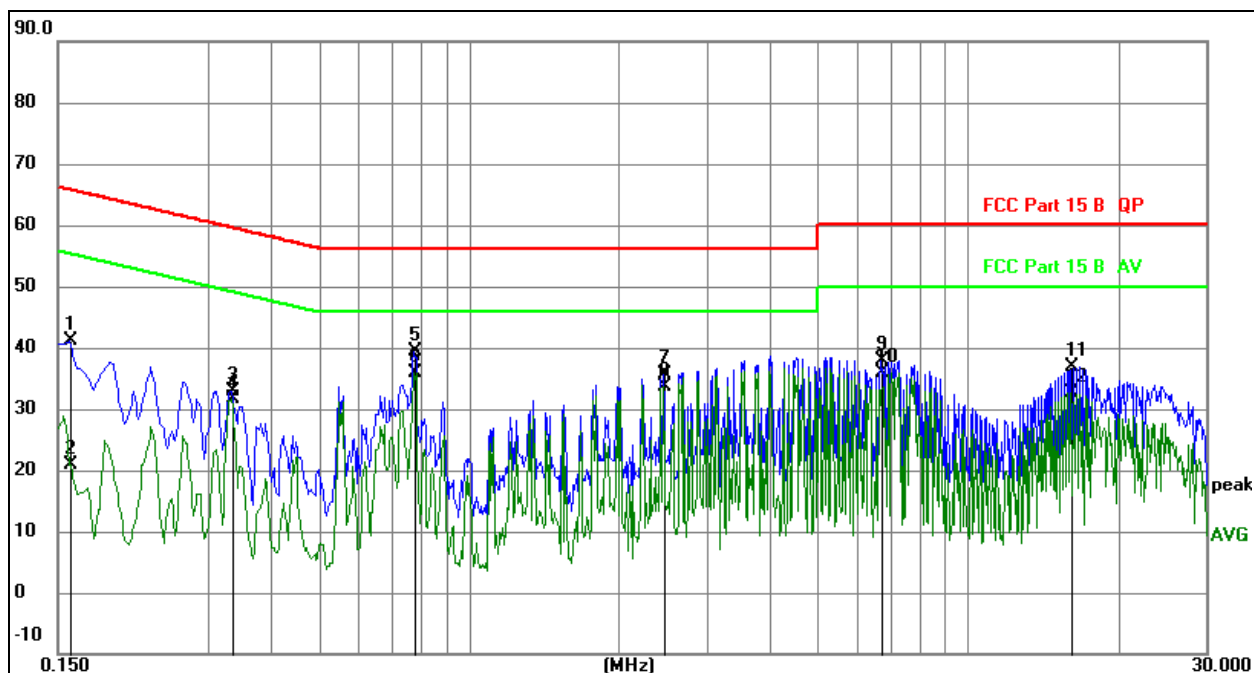

Remark:

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	0.1500	26.17	19.67	45.84	66.00	-20.16	QP
2	0.1500	12.79	19.67	32.46	56.00	-23.54	AVG
3	0.3030	18.19	19.77	37.96	60.16	-22.20	QP
4	0.3030	8.19	19.77	27.96	50.16	-22.20	AVG
5	0.7439	14.79	19.74	34.53	56.00	-21.47	QP
6	0.7439	8.51	19.74	28.25	46.00	-17.75	AVG
7	1.9544	10.99	19.87	30.86	56.00	-25.14	QP
8	1.9544	7.85	19.87	27.72	46.00	-18.28	AVG
9	3.4305	15.24	20.04	35.28	56.00	-20.72	QP
10 *	3.4305	13.55	20.04	33.59	46.00	-12.41	AVG
11	10.8735	6.06	20.28	26.34	60.00	-33.66	QP
12	10.8735	2.00	20.28	22.28	50.00	-27.72	AVG

Coil ANT 1

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5

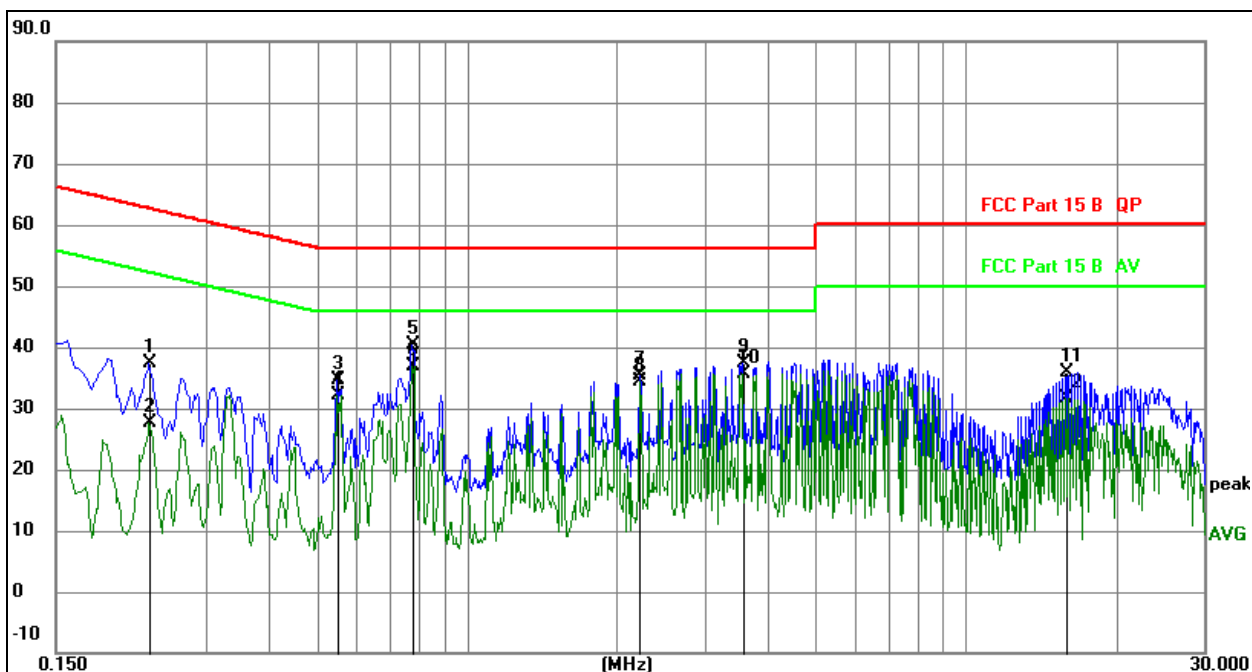


Remark:

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	0.1590	21.35	19.69	41.04	65.52	-24.48	QP
2	0.1590	1.18	19.69	20.87	55.52	-34.65	AVG
3	0.3345	13.24	19.76	33.00	59.34	-26.34	QP
4	0.3345	11.83	19.76	31.59	49.34	-17.75	AVG
5	0.7755	19.62	19.74	39.36	56.00	-16.64	QP
6 *	0.7755	16.20	19.74	35.94	46.00	-10.06	AVG
7	2.4585	15.60	19.93	35.53	56.00	-20.47	QP
8	2.4585	13.76	19.93	33.69	46.00	-12.31	AVG
9	6.7065	17.78	20.17	37.95	60.00	-22.05	QP
10	6.7065	15.78	20.17	35.95	50.00	-14.05	AVG
11	16.0935	16.48	20.33	36.81	60.00	-23.19	QP
12	16.0935	12.22	20.33	32.55	50.00	-17.45	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



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	0.2310	17.47	19.79	37.26	62.41	-25.15	QP
2	0.2310	7.76	19.79	27.55	52.41	-24.86	AVG
3	0.5505	14.87	19.72	34.59	56.00	-21.41	QP
4	0.5505	12.43	19.72	32.15	46.00	-13.85	AVG
5	0.7755	20.62	19.74	40.36	56.00	-15.64	QP
6 *	0.7755	17.20	19.74	36.94	46.00	-9.06	AVG
7	2.2200	15.58	19.90	35.48	56.00	-20.52	QP
8	2.2200	14.56	19.90	34.46	46.00	-11.54	AVG
9	3.5745	17.31	20.05	37.36	56.00	-18.64	QP
10	3.5745	15.57	20.05	35.62	46.00	-10.38	AVG
11	15.8640	15.49	20.32	35.81	60.00	-24.19	QP
12	15.8640	11.32	20.32	31.64	50.00	-18.36	AVG

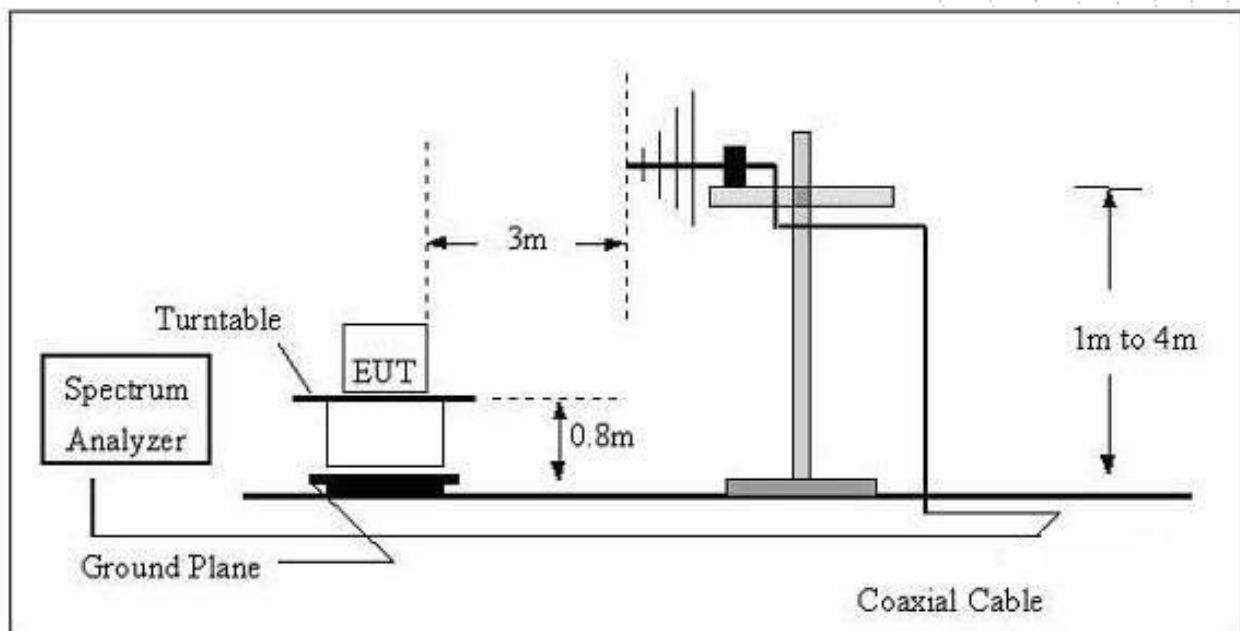
7. Radiated Emissions

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.

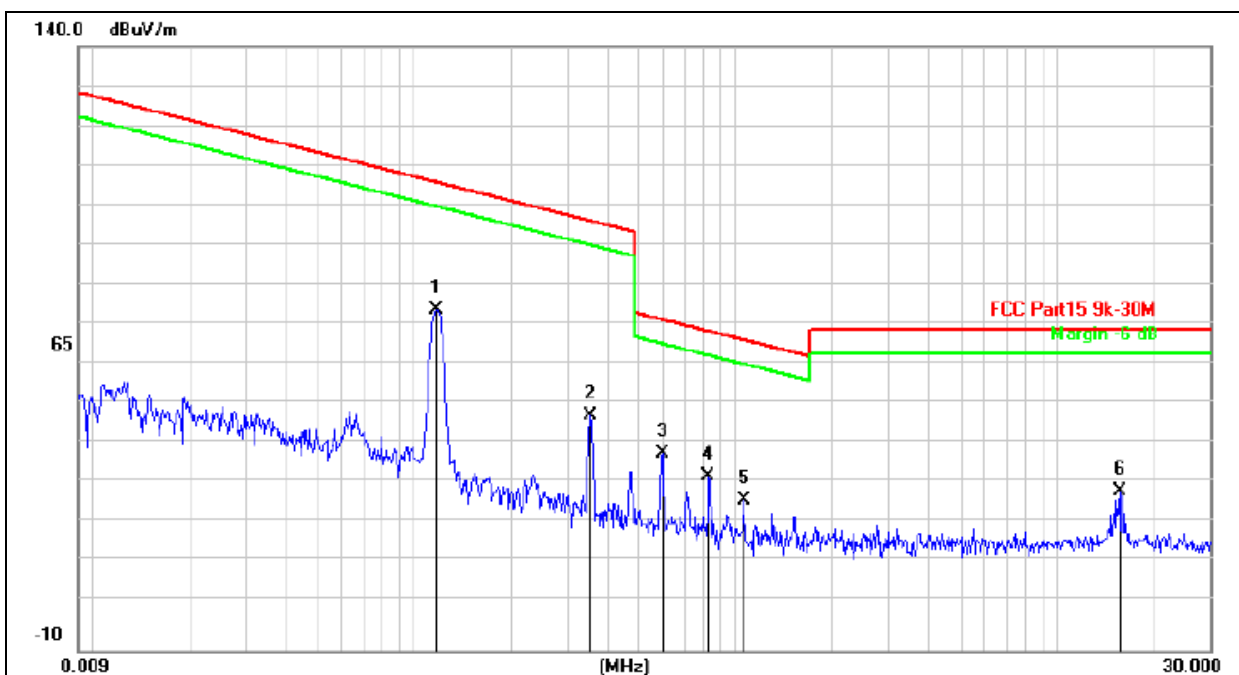
7.4 Test Result

Note: The data show only that the worst mode of Coil ANT1 is mode 13 and the worst mode of Coil ANT2 is mode 6

Coil ANT1

9kHz-30MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 13	Polarization :	---

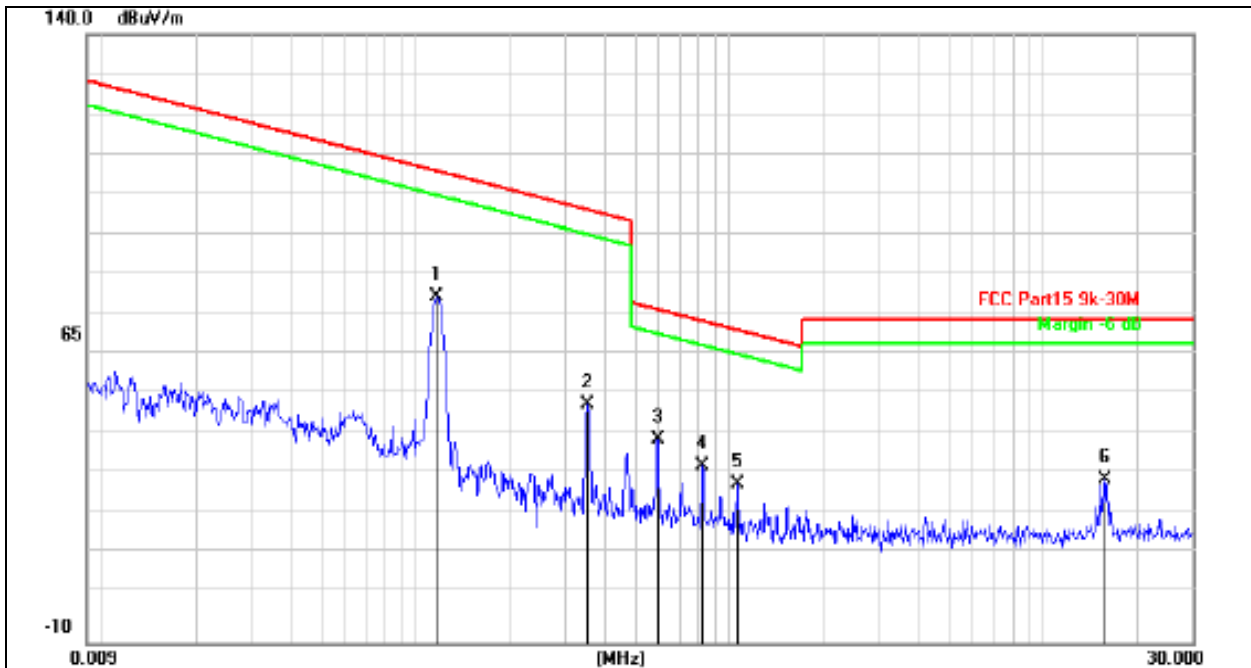


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	0.1178	84.89	-10.15	74.74	106.1	-31.44	peak
2		0.3549	58.75	-10.27	48.48	96.60	-48.12	peak
3		0.5916	49.30	-10.26	39.04	72.17	-33.13	peak
4		0.8251	43.50	-10.24	33.26	69.29	-36.03	peak
5		1.0610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

Coil ANT2

9kHz-30MHz

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

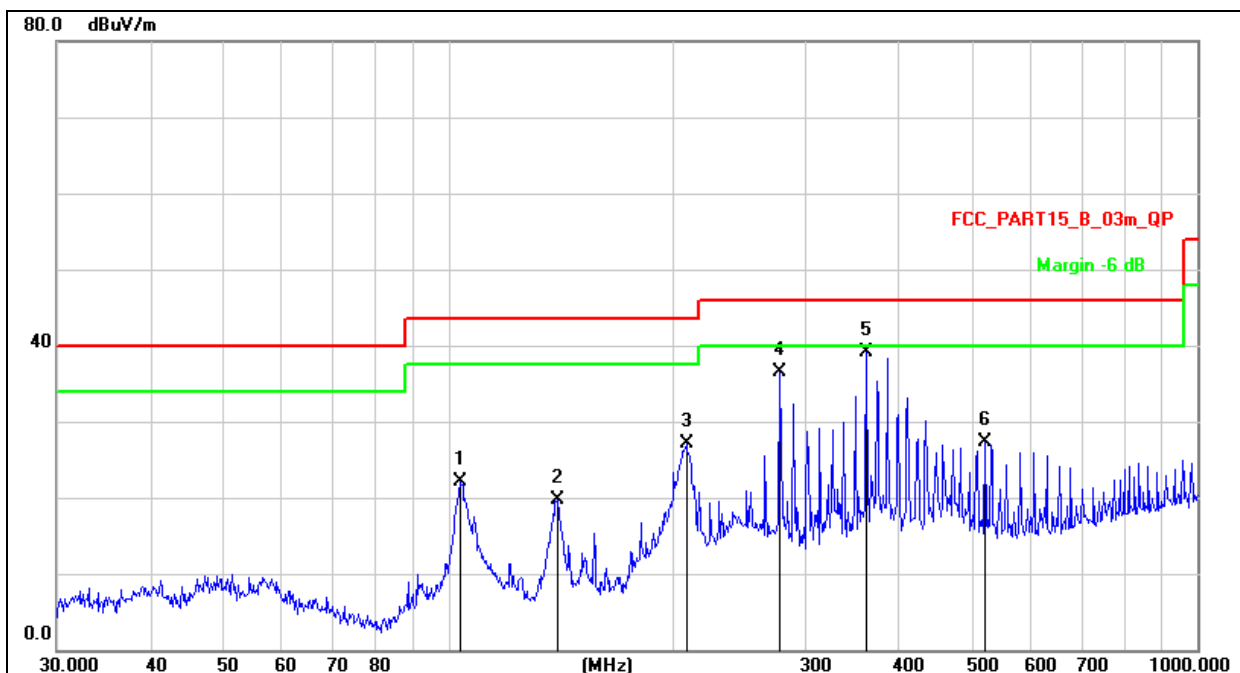


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	0.1178	85.35	-10.15	75.20	106.1	-30.98	peak
2		0.3548	58.97	-10.27	48.70	96.60	-47.90	peak
3		0.5916	50.25	-10.26	39.99	72.17	-32.18	peak
4		0.8250	43.87	-10.24	33.63	69.29	-35.66	peak
5		1.0609	39.46	-10.23	29.23	67.11	-37.88	peak
6		15.8056	39.37	-9.11	30.26	69.54	-39.28	peak

Coil ANT1

Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 13	Polarization :	Horizontal

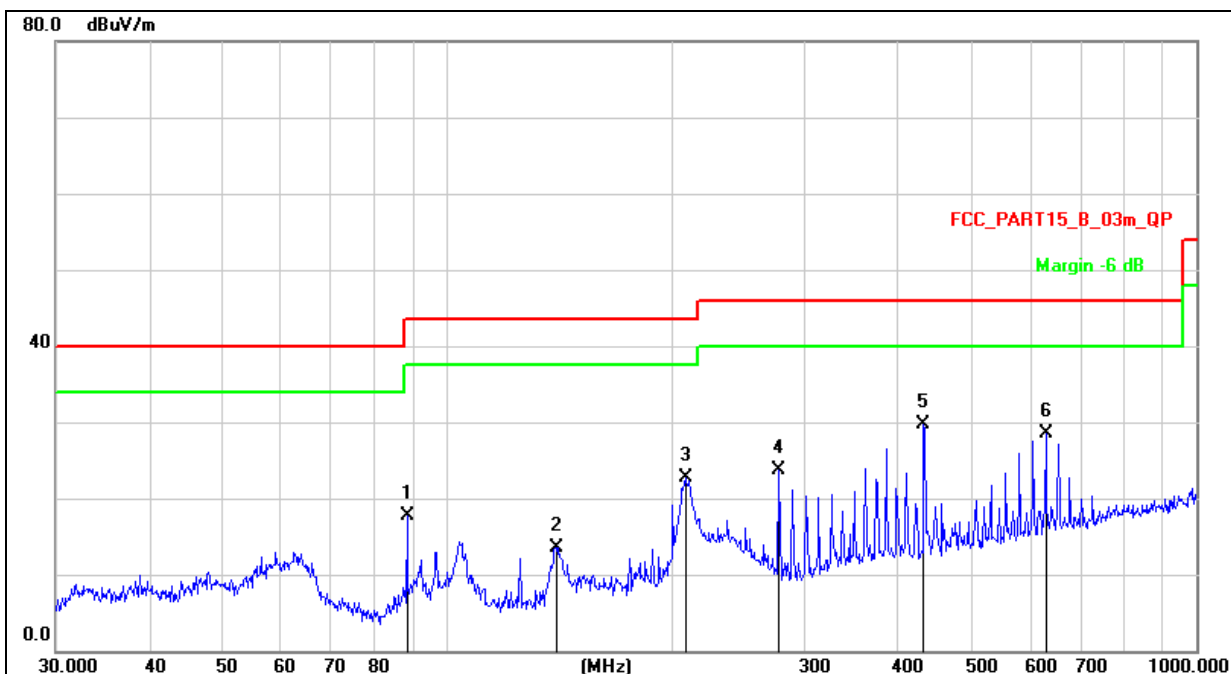


Remark:

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		103.8055	40.08	-18.01	22.07	43.50	-21.43	QP
2		139.8508	40.11	-20.38	19.73	43.50	-23.77	QP
3		207.8501	44.15	-17.13	27.02	43.50	-16.48	QP
4		277.0935	51.74	-15.15	36.59	46.00	-9.41	QP
5	*	361.7139	51.76	-12.65	39.11	46.00	-6.89	QP
6		520.8882	37.28	-9.94	27.34	46.00	-18.66	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 13	Polarization :	Vertical



Remark:

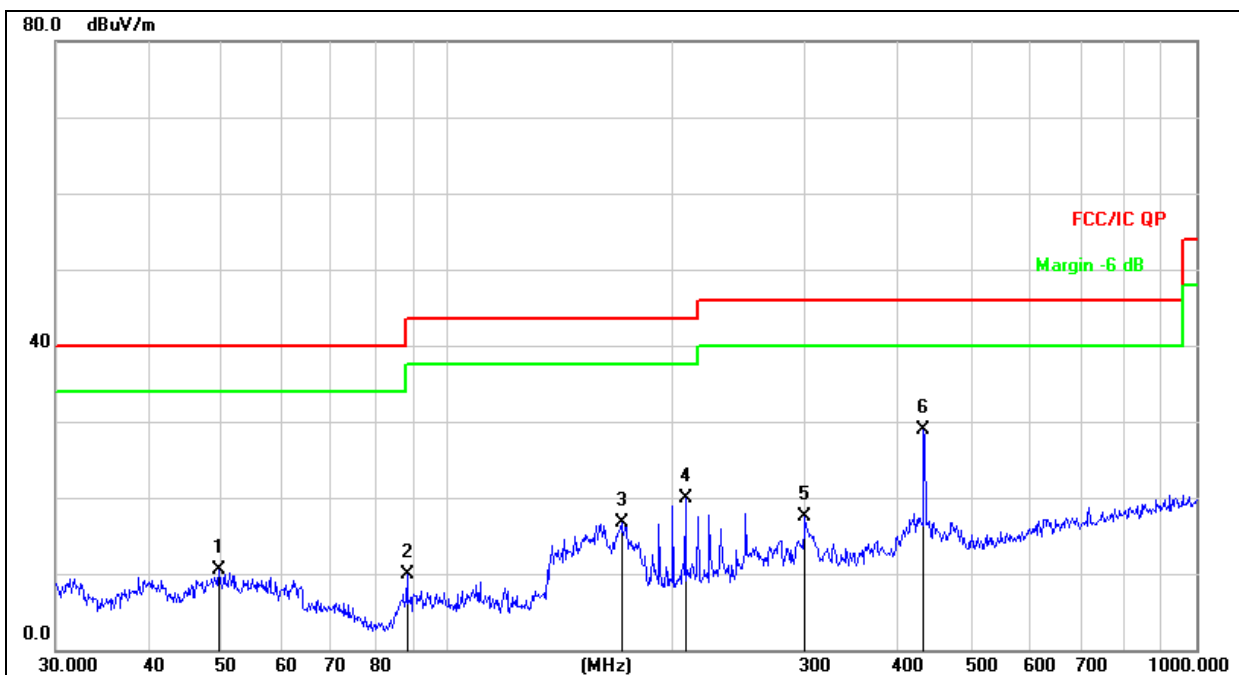
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		88.3421	37.25	-19.62	17.63	43.50	-25.87	QP
2		139.8508	33.90	-20.38	13.52	43.50	-29.98	QP
3		207.8501	39.82	-17.13	22.69	43.50	-20.81	QP
4		277.0935	38.91	-15.15	23.76	46.00	-22.24	QP
5	*	432.5457	41.45	-11.74	29.71	46.00	-16.29	QP
6		629.4772	36.49	-7.99	28.50	46.00	-17.50	QP

Coil ANT2

Between 30MHz – 1GHz

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

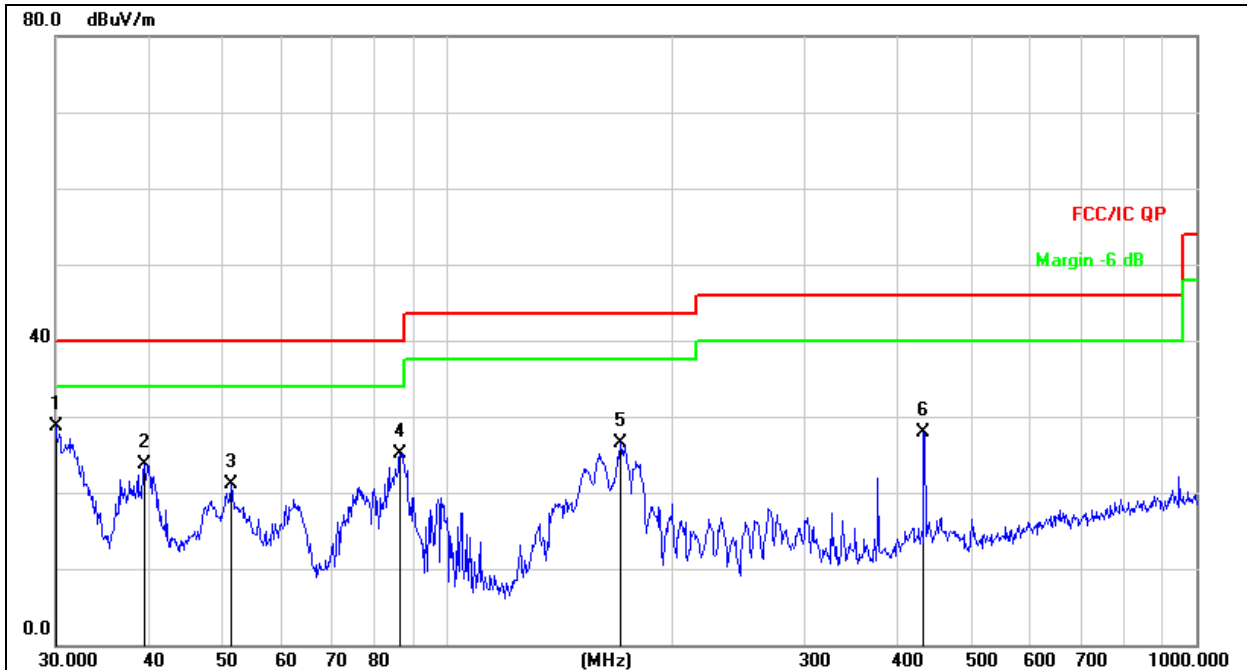


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		49.5328	26.07	-15.64	10.43	40.00	-29.57	QP
2		88.3421	29.48	-19.62	9.86	43.50	-33.64	QP
3		170.7926	36.30	-19.52	16.78	43.50	-26.72	QP
4		207.8501	37.05	-17.13	19.92	43.50	-23.58	QP
5		300.3672	31.98	-14.57	17.41	46.00	-28.59	QP
6	*	432.5457	40.64	-11.74	28.90	46.00	-17.10	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 6	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	*	30.0000	47.15	-18.38	28.77	40.00	-11.23	QP
2		39.4371	40.48	-16.81	23.67	40.00	-16.33	QP
3		51.4807	36.85	-15.81	21.04	40.00	-18.96	QP
4		86.5029	45.12	-20.04	25.08	40.00	-14.92	QP
5		170.1948	46.01	-19.56	26.45	43.50	-17.05	QP
6		432.5457	39.72	-11.74	27.98	46.00	-18.02	QP

8. Bandwidth Test

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.

TEST SETUP



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

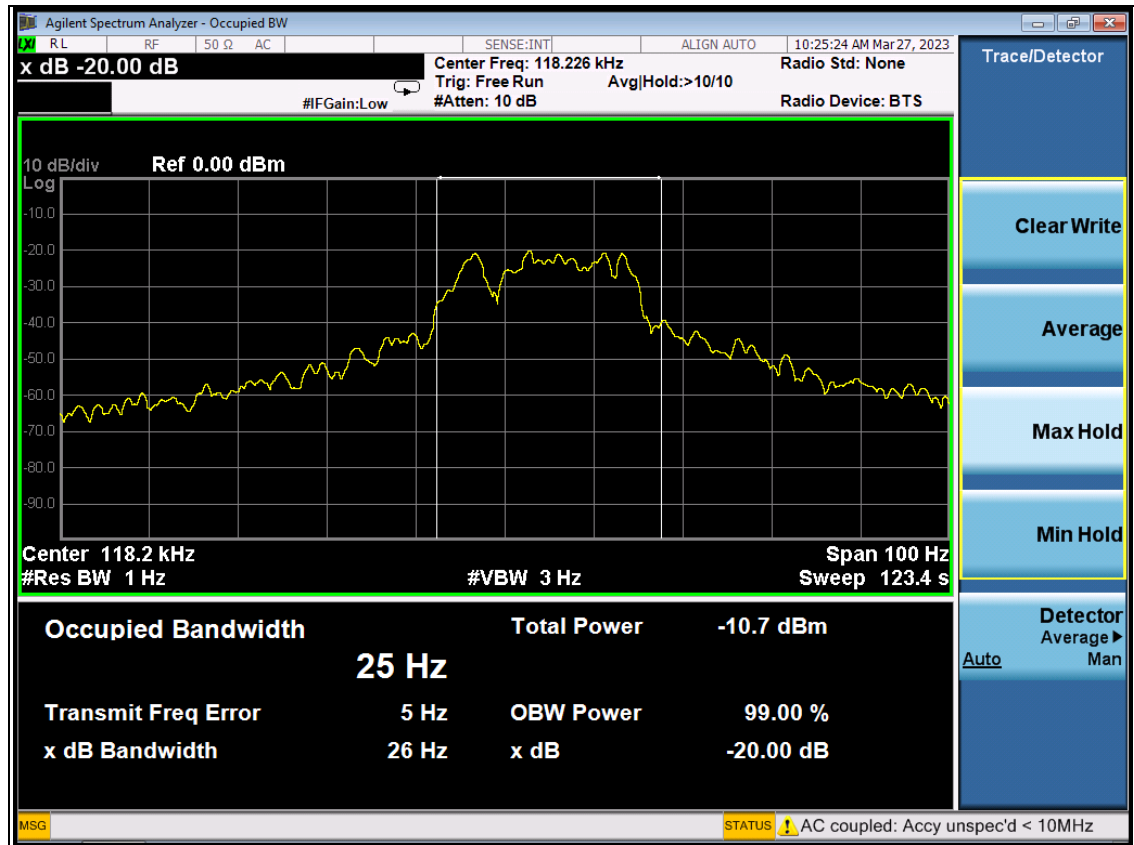
Coil ANT1

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



Coil ANT2

Frequency (KHz)	20dB bandwidth (Hz)	Result
118.2	26	Pass



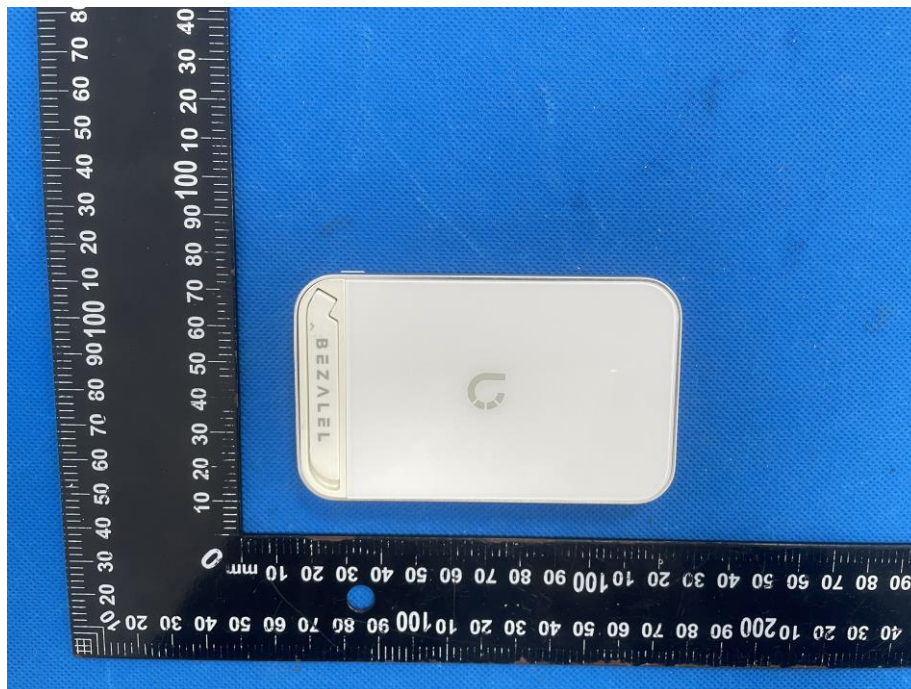
9. Antenna Requirements

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.

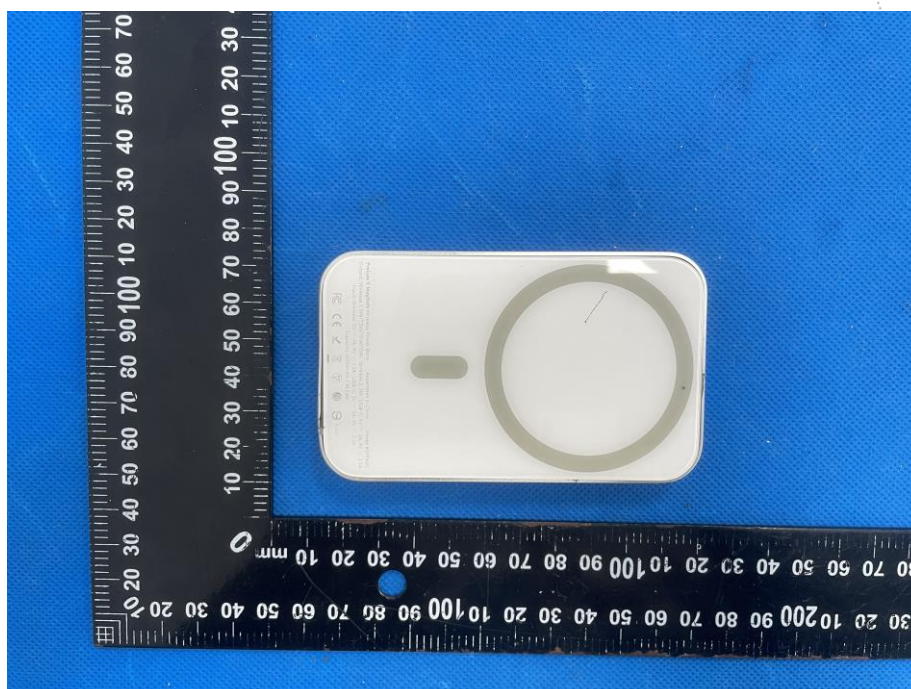
The antenna used for this product is Inductive loop coil antenna.

10. EUT Photographs

EUT Photo 1



EUT Photo 2



11. EUT Test Setup Photographs

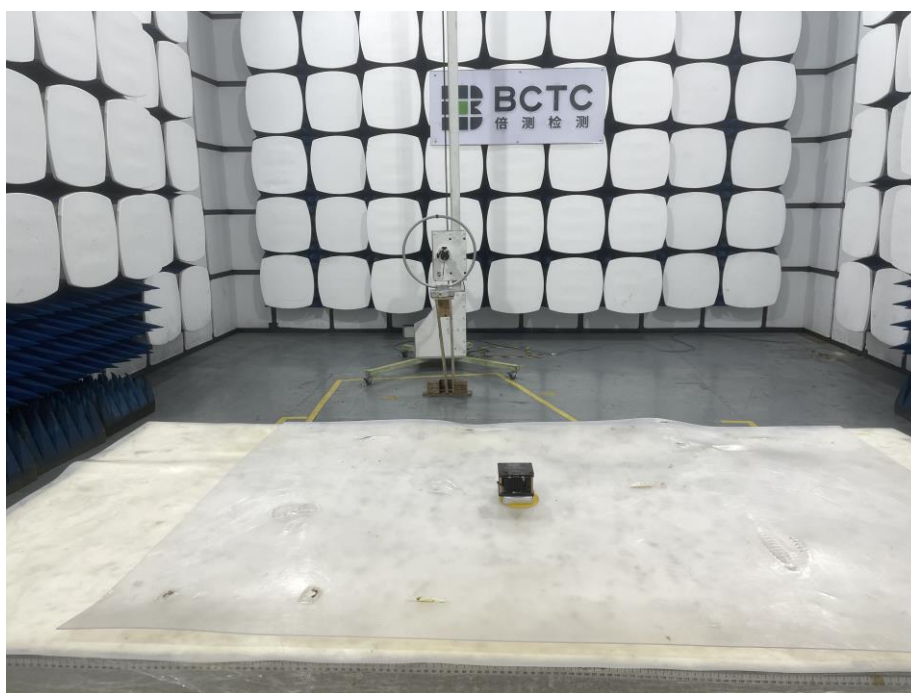
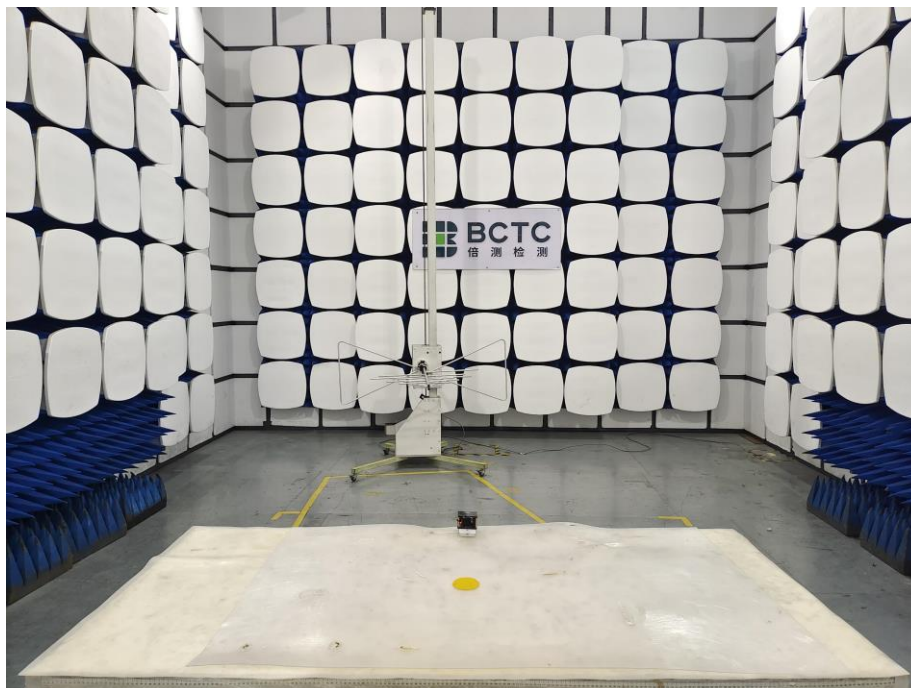
Conducted emissions Photo (Coil ANT1)



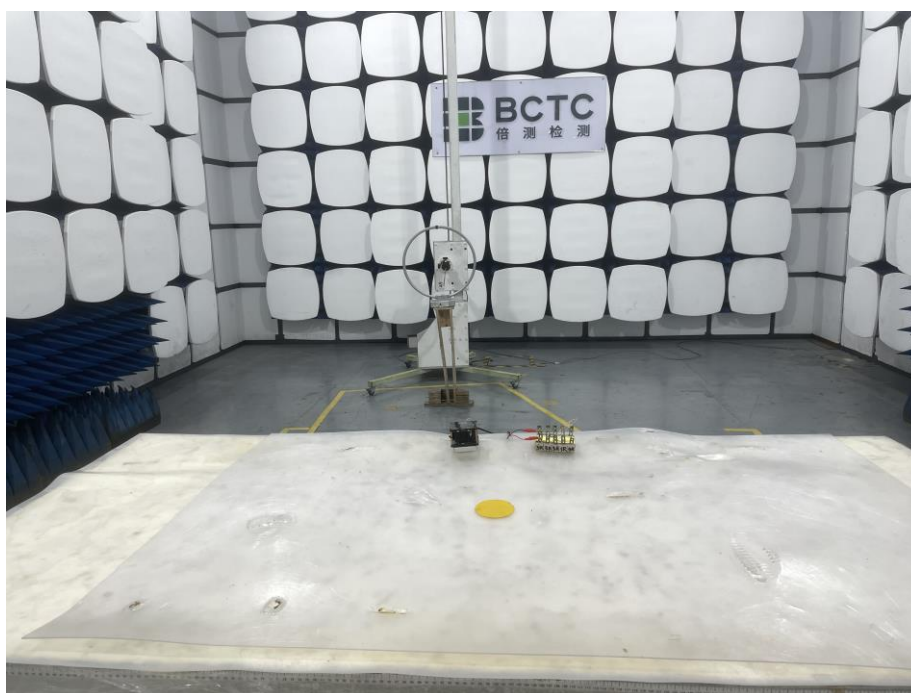
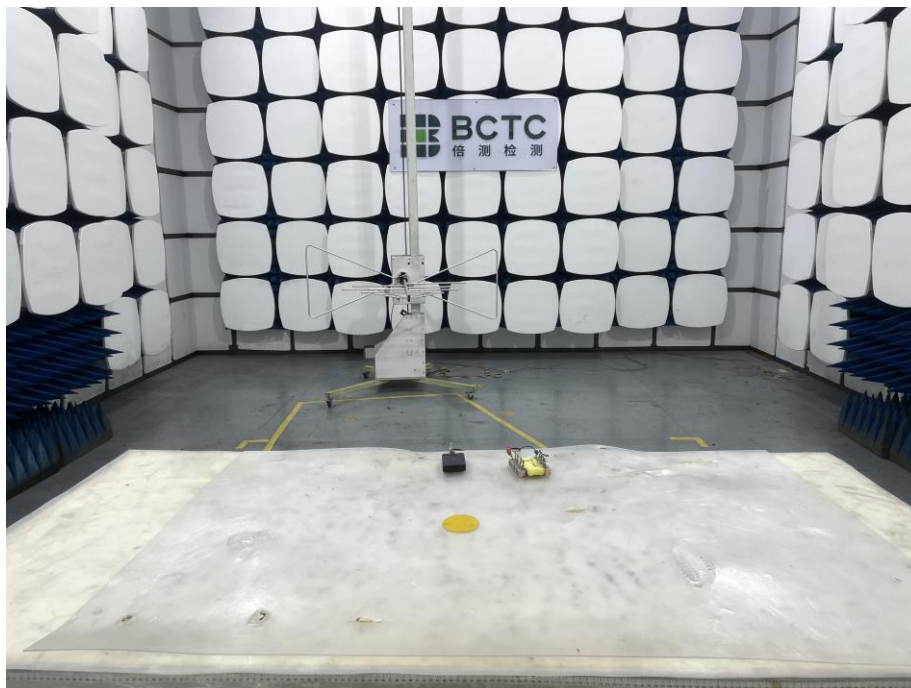
Coil ANT2



Radiated Measurement Photos(Coil ANT2)



Coil ANT1



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 *******