



FCC Test Report

**Test Report
On Behalf of
TRUSTSTONE GROUP, LLC
For
WONDERMATE WIRELESS CHARGER SPEAKER-NIGHT LIGHT
Model No.: PY-WMWCLD-CRM, HPY-WMWCLD-CRM
FCC ID: 2BBPLPYWMWCLD**

Prepared For: TRUSTSTONE GROUP, LLC
1370 Broadway, 9th floor, New York, NY 10018 United States

Prepared By: Shenzhen HUAKE Testing Technology Co., Ltd.
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Date of Test: Oct. 10, 2024 ~ Oct. 23, 2024
Date of Report: Oct. 23, 2024
Report Number: HK2410105920-2E



Test Result Certification

Applicant's Name : TRUSTSTONE GROUP, LLC

Address : 1370 Broadway, 9th floor, New York, NY 10018 United States

Manufacturer's Name : TRUSTSTONE GROUP, LLC

Address : 1370 Broadway, 9th floor, New York, NY 10018 United States

Product Description

Trade Mark : XO POPPY

Product Name : WONDERMATE WIRELESS CHARGER SPEAKER-NIGHT LIGHT

Model and/or Type Reference : PY-WMWLED-CRM, HPY-WMWLED-CRM

Standards : FCC Rules and Regulations Part 15 Subpart C (Section 15.209),
ANSI C63.10: 2013

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Date of Test :

Date (s) of Performance of Tests : Oct. 10, 2024 ~ Oct. 23, 2024

Date of Issue : Oct. 23, 2024

Test Result : Pass

Testing Engineer :

(Len Liao)

Technical Manager :

(Sliver Wan)

Authorized Signatory :

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Oct. 23, 2024	Jason Zhou



1. Test Summary

1.1. Test Procedures and Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	COMPLIANT
RADIATED EMISSION TEST	15.209	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2

Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2

Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2

Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2



2. General Information

2.1. General Description of EUT

Equipment:	WONDERMATE WIRELESS CHARGER SPEAKER-NIGHT LIGHT
Model Name:	PY-WMWCLD-CRM
Series Models:	HPY-WMWCLD-CRM
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample mode: PY-WMWCLD-CRM.
Trade Mark:	XO POPPY
FCC ID:	2BBPLPYWMWCLD
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	Mobile Phone: 148KHz Earphones: 140KHz Watch: 148KHz
Modulation Type:	ASK
Power Source:	Input: DC5-9V/3A Wireless Output: WATCH 2W EARPHONE 3W/ PHONE15 W
Power Rating:	Input: DC5-9V/3A Wireless Output: WATCH 2W EARPHONE 3W/ PHONE15 W

Note:

1. The transfer system includes three coils, 3 coils can work individually or can work at the same time. All the situation has been tested, only the worst situation was recorded in the report.
2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
3. The cable loss data is obtained from the supplier.
4. The test results in the report only apply to the tested sample.



2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
01	148KHz
02	140KHz
03	148KHz



2.3. Operation of EUT during Testing

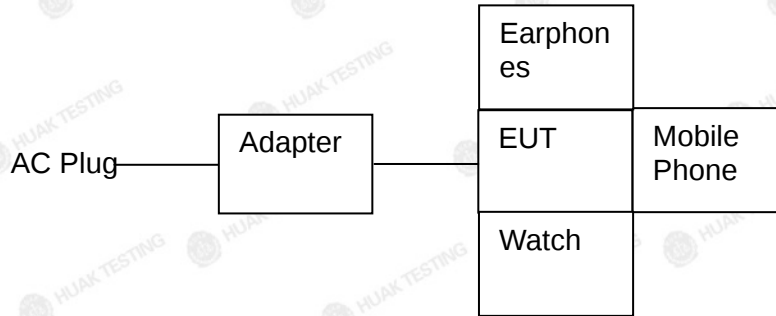
Test Item	Test Mode	Description
Radiated & Conducted Test Cases	Mode 1	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Earphones (Battery Status: <1%) + Watch (Battery Status: <1%)
	Mode 2	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Earphones (Battery Status: <50%) + Watch (Battery Status: <1%)
	Mode 3	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Earphones (Battery Status: >95%) + Watch (Battery Status: <1%)
	Mode 4	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Earphones (Battery Status: <1%) + Watch (Battery Status: <50%)
	Mode 5	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Earphones (Battery Status: <50%) + Watch (Battery Status: <50%)
	Mode 6	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Earphones (Battery Status: >95%) + Watch (Battery Status: <50%)
	Mode 7	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Earphones (Battery Status: <1%) + Watch (Battery Status: >95%)
	Mode 8	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Earphones (Battery Status: <50%) + Watch (Battery Status: >95%)
	Mode 9	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Earphones (Battery Status: >95%) + Watch (Battery Status: >95%)
	Mode 10	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%)
	Mode 11	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%)
	Mode 12	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%)
	Mode 13	AC/DC Adapter + EUT + Earphones (Battery Status: <1%)
	Mode 14	AC/DC Adapter + EUT + Earphones (Battery Status: <50%)
	Mode 15	AC/DC Adapter + EUT + Earphones (Battery Status: >95%)
	Mode 16	AC/DC Adapter + EUT + Watch (Battery Status: <1%)
	Mode 17	AC/DC Adapter + EUT + Watch (Battery Status: <50%)
	Mode 18	AC/DC Adapter + EUT + Watch (Battery Status: >95%)
	Mode 19	AC/DC Adapter + EUT (Null Load)

- Note: 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report, the worst-case configuration is Mode 1.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The wireless load replaces the Mobile Phone and Watch by Lab.
4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.



2.4. Description of Test Setup

Operation of EUT during conducted testing and radiation testing:



The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	WONDERMATE WIRELESS CHARGER SPEAKER-NIGHT LIGHT	XO POPPY	PY-WMWCLD-CRM	N/A	EUT
2	USB Cable	N/A	N/A	Length: 1.0m	Accessory
3	Adapter	N/A	CD289	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral
4	Mobile phone	APPLE	iPhone 13	Wireless input 15W	Peripheral
5	Earphones	APPLE	AirPods	Wireless input 3W	Peripheral
6	Watch	APPLE	Ultra 2	Wireless input 2W	Peripheral

Note:

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.

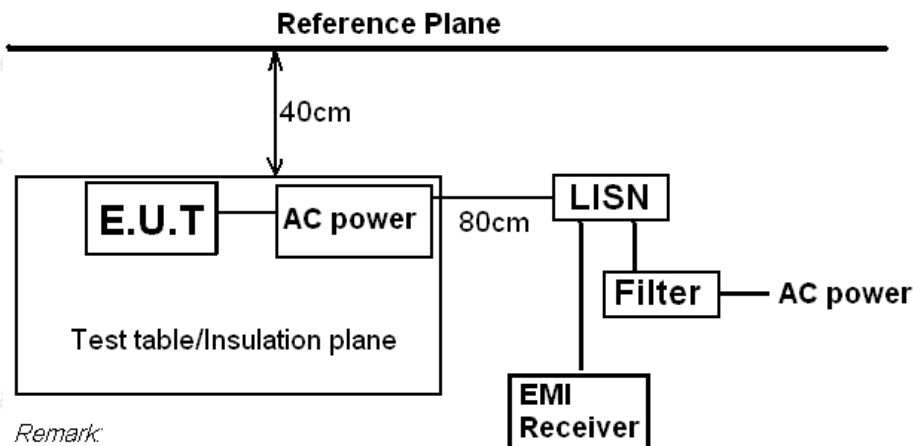
**2.6. Measurement Instruments List**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 20, 2024	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6.	Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 20, 2024	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-145R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	1 Year



3. Conducted Emission Test

3.1. Block Diagram of Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

3.2. Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207 Line Conducted Emission Limit is same as above table.

3.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

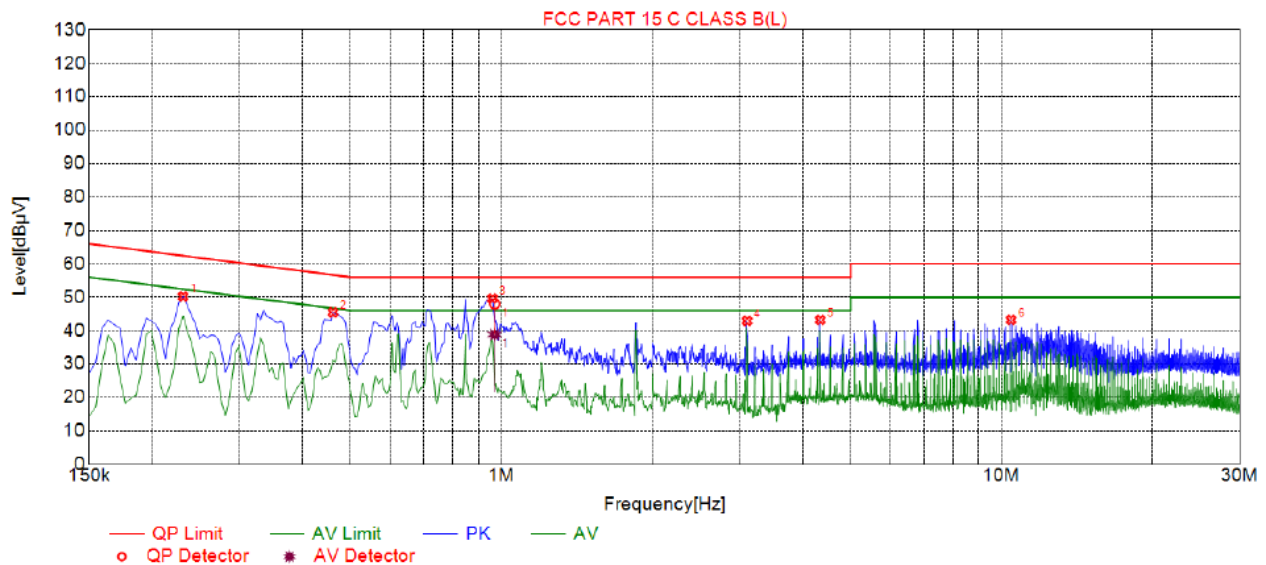


3.4. Test Result

PASS

All the test modes completed for test. Only the worst result of Full Load was reported as below:

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2310	50.20	19.83	62.41	12.21	30.37	PK	L
2	0.4605	45.46	19.84	56.68	11.22	25.62	PK	L
3	0.9600	49.60	19.87	56.00	6.40	29.73	PK	L
4	3.1020	42.93	20.05	56.00	13.07	22.88	PK	L
5	4.3440	43.20	20.09	56.00	12.80	23.11	PK	L
6	10.4595	43.21	19.94	60.00	16.79	23.27	PK	L

Final Data List

NO.	Freq. [MHz]	Correction factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.9696	19.87	48.00	56.00	8.00	28.13	38.82	46.00	7.18	18.95	L

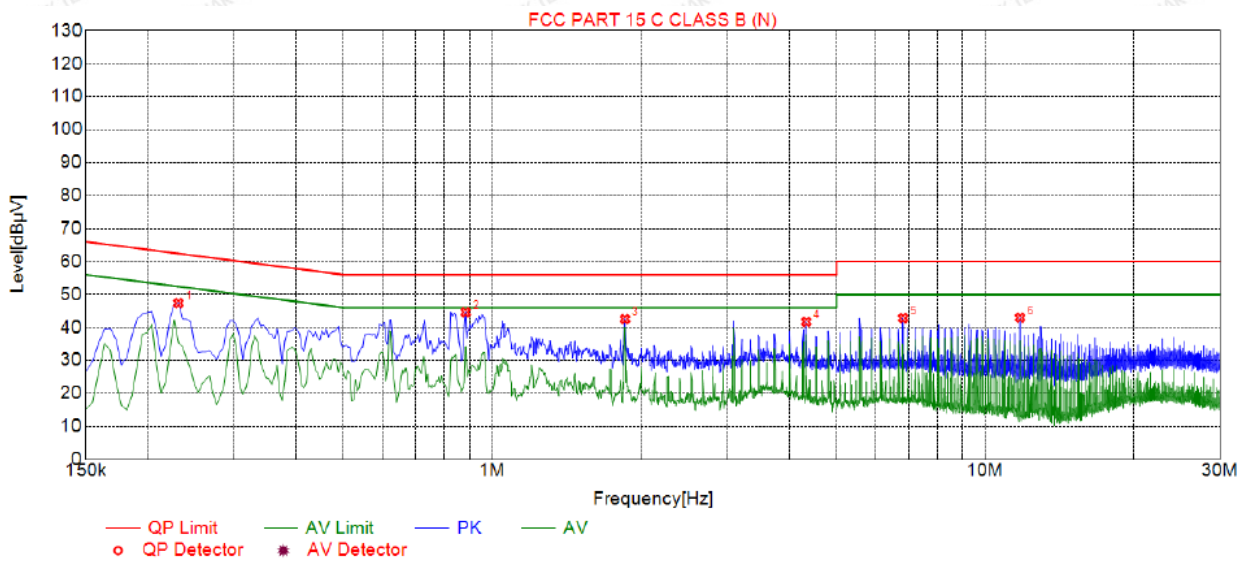
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level = Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2310	47.38	19.73	62.41	15.03	27.65	PK	N
2	0.8835	44.62	19.74	56.00	11.38	24.88	PK	N
3	1.8600	42.56	19.83	56.00	13.44	22.73	PK	N
4	4.3395	41.73	19.98	56.00	14.27	21.75	PK	N
5	6.8235	42.84	19.97	60.00	17.16	22.87	PK	N
6	11.7825	42.98	19.82	60.00	17.02	23.16	PK	N

Remark: Margin = Limit – Level

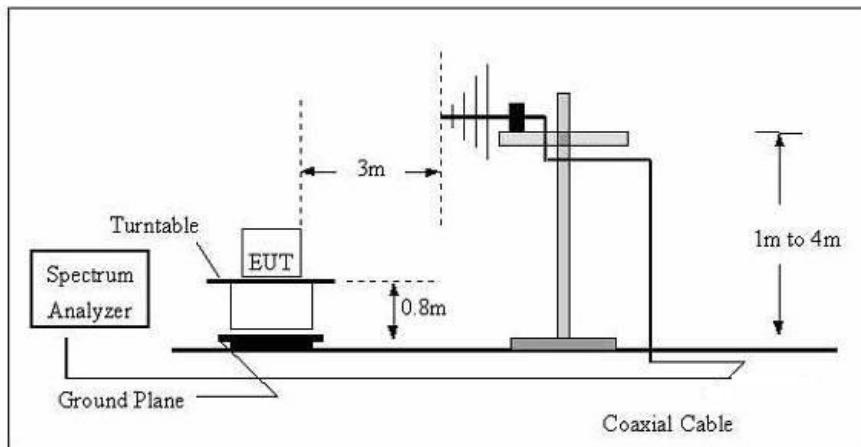
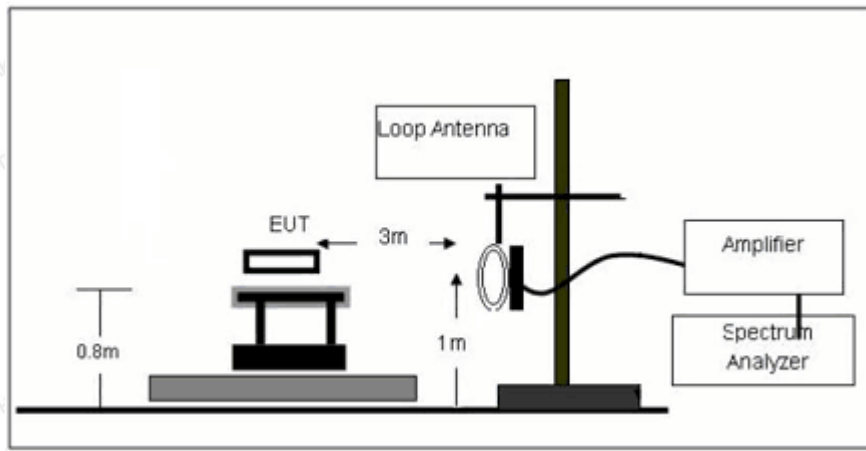
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4. Radiated Emissions

4.1. Block Diagram of Test Setup





4.2. Rules and Specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	$20\log(2400/F(KHz))+40\log(300/3)$	3
0.490-1.705	$20\log(24000/F(KHz))+40\log(30/3)$	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

Transmitter Spurious Emissions 9KHz-30MHz			
	9-150KHz	150-490KHz	490KHz-30MHz
Resolution Bandwidth	200Hz	9KHz	9KHz
Video Bandwidth	600Hz	30KHz	30KHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto



4.3. Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.



4.4. Test Result

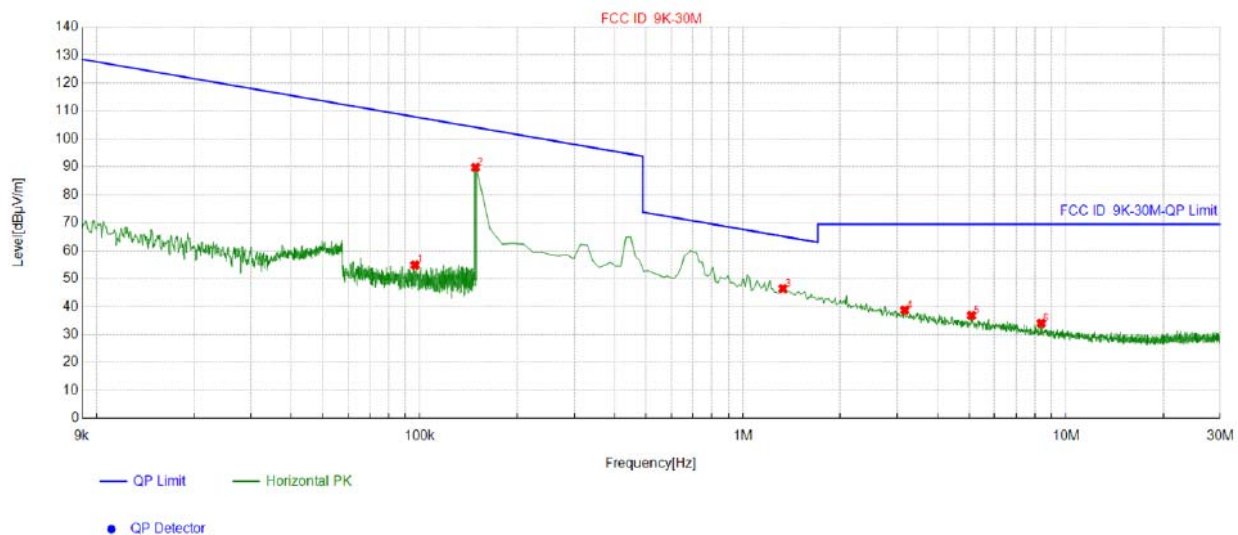
PASS

Note: All the test modes completed for test. Only the worst result Full Load was reported as below:

For 9KHz - 30MHz

Mobile phone

Coaxial:



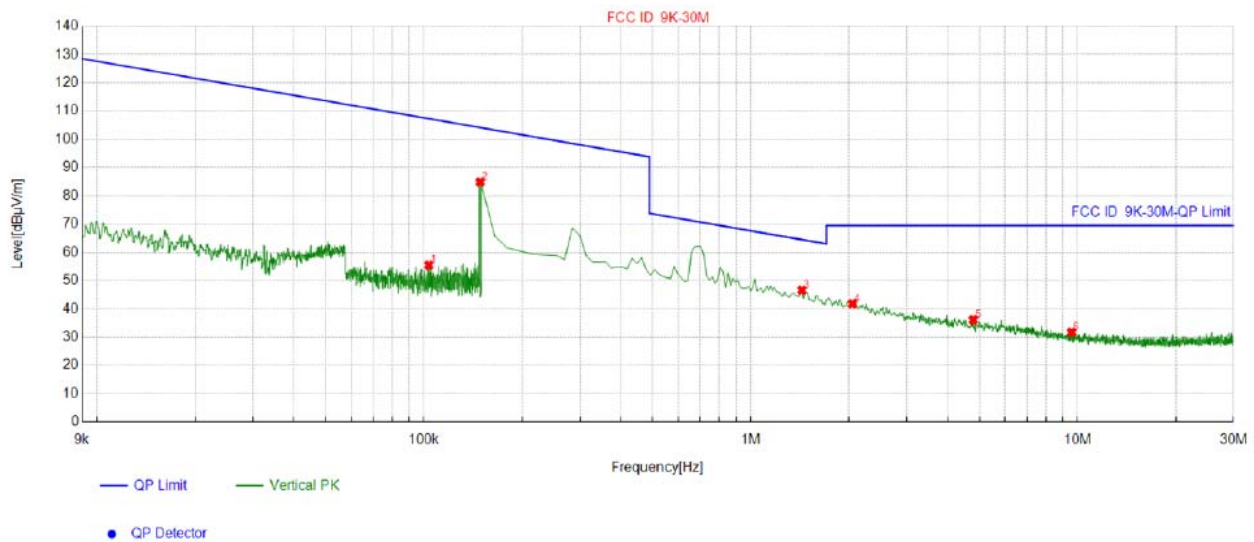
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.096464	20.62	34.23	54.85	107.91	53.06
2	0.148519	20.42	69.38	89.80	104.16	14.36
3	1.329665	20.49	25.95	46.44	65.15	18.71
4	3.166358	20.14	18.56	38.70	69.50	30.80
5	5.092646	20.23	16.58	36.81	69.50	32.69
6	8.377789	20.34	13.66	34.00	69.50	35.50

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Coplanar:



Suspected List

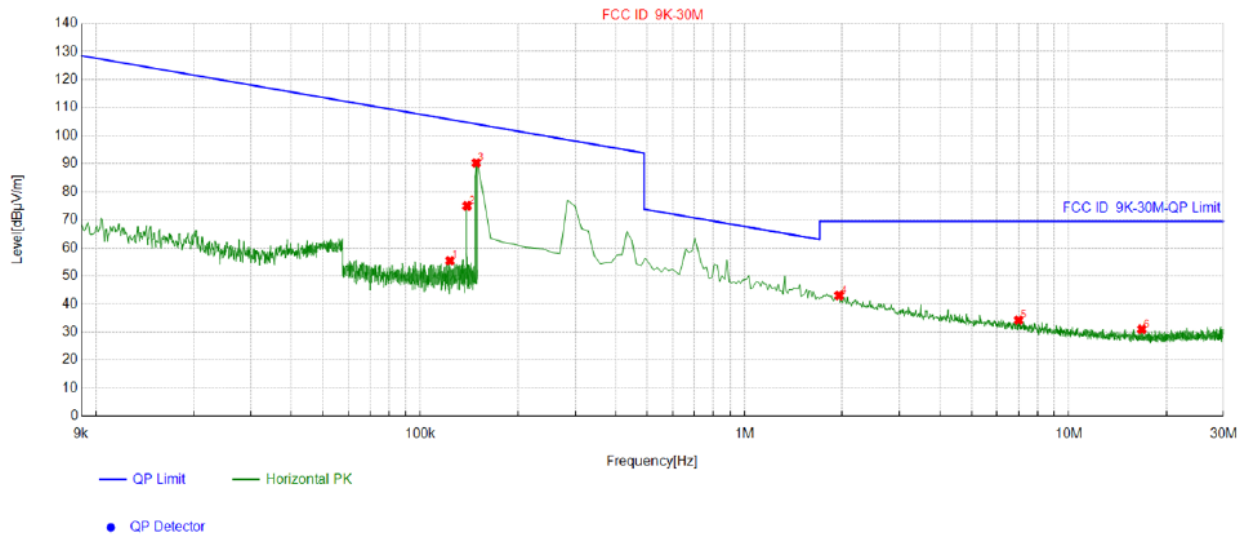
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.103517	20.38	35.08	55.46	107.30	51.84
2	0.148589	20.42	64.46	84.88	104.16	19.28
3	1.434192	20.49	26.14	46.63	64.50	17.87
4	2.046423	20.50	21.30	41.80	69.50	27.70
5	4.793997	20.19	15.91	36.10	69.50	33.40
6	9.587319	20.20	11.51	31.71	69.50	37.79

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Earphones

Coaxial:



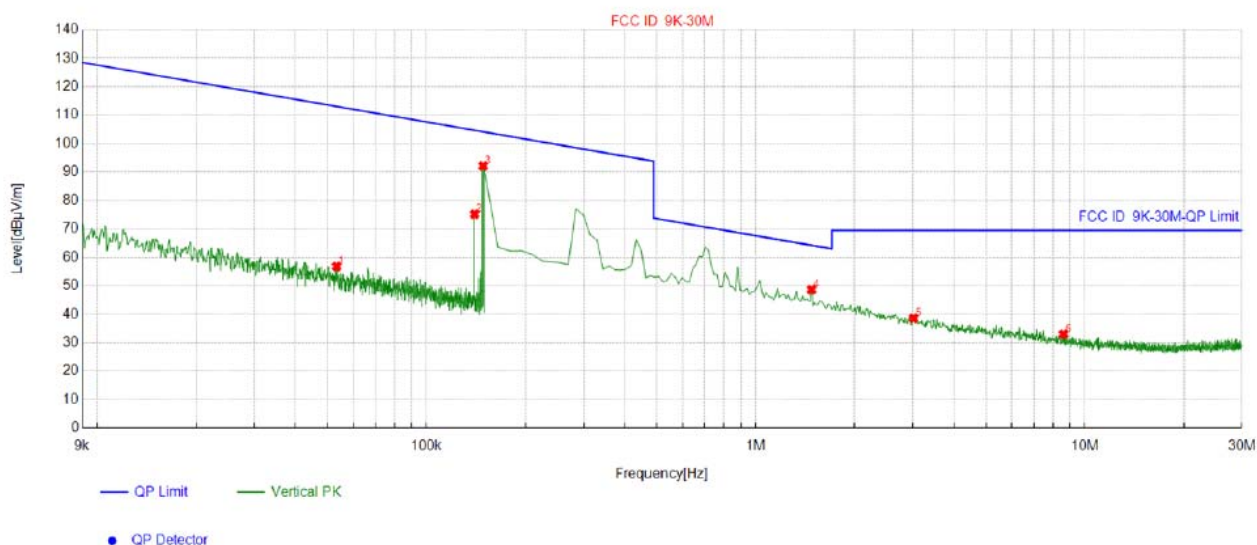
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.123267	20.39	35.02	55.41	105.78	50.37
2	0.139138	20.42	54.56	74.98	104.73	29.75
3	0.14866	20.42	69.87	90.29	104.15	13.86
4	1.956828	20.52	22.49	43.01	69.50	26.49
5	7.004002	20.52	13.70	34.22	69.50	35.28
6	16.7997	19.93	11.08	31.01	69.50	38.49

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Coplanar:

**Suspected List**

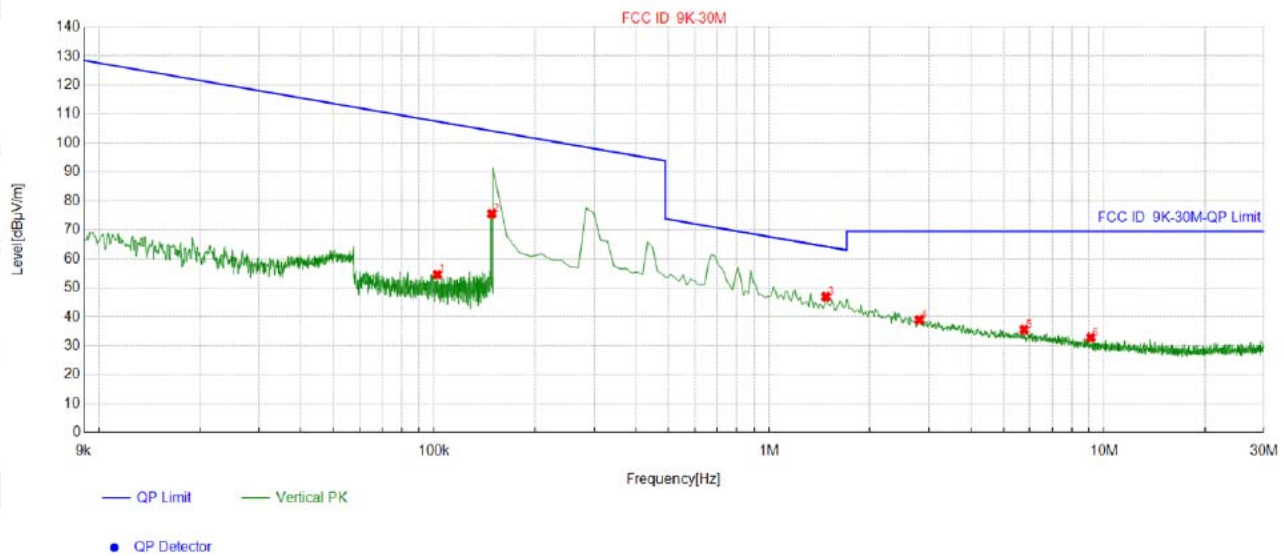
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.053296	20.49	36.31	56.80	113.06	56.26
2	0.139843	20.42	54.74	75.16	104.69	29.53
3	0.148519	20.42	71.71	92.13	104.16	12.03
4	1.478989	20.50	28.16	48.66	64.23	15.57
5	3.017034	20.14	18.42	38.56	69.50	30.94
6	8.616708	20.35	12.66	33.01	69.50	36.49

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Watch

Coaxial:



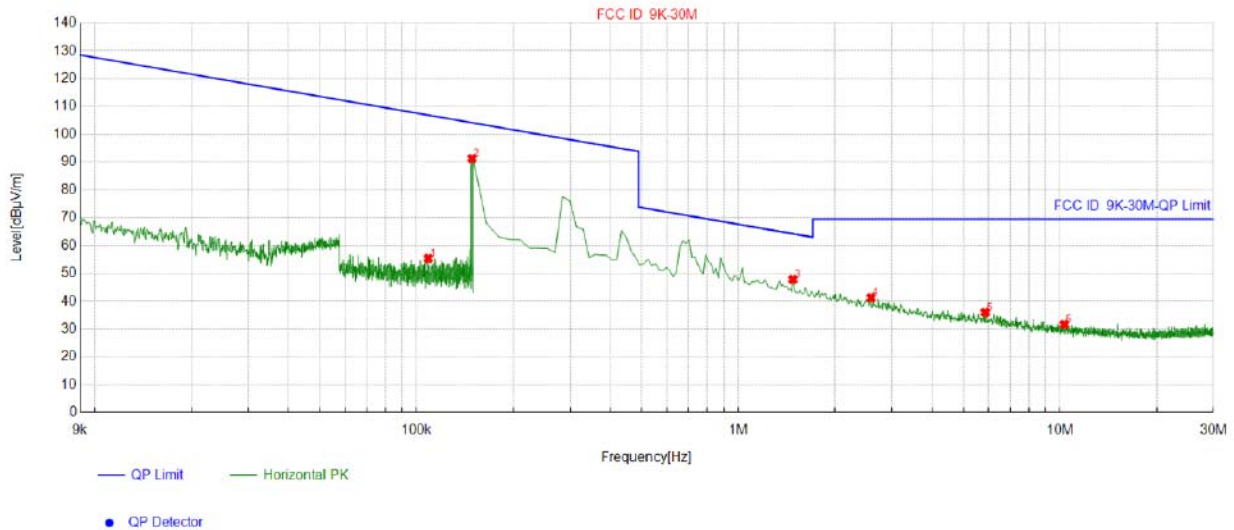
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.102177	20.38	34.18	54.56	107.41	52.85
2	0.148589	20.42	55.15	75.57	104.16	28.59
3	1.478989	20.50	26.45	46.95	64.23	17.28
4	2.807979	20.22	18.71	38.93	69.50	30.57
5	5.764607	20.41	15.16	35.57	69.50	33.93
6	9.124412	20.32	12.55	32.87	69.50	36.63

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Coplanar:

**Suspected List**

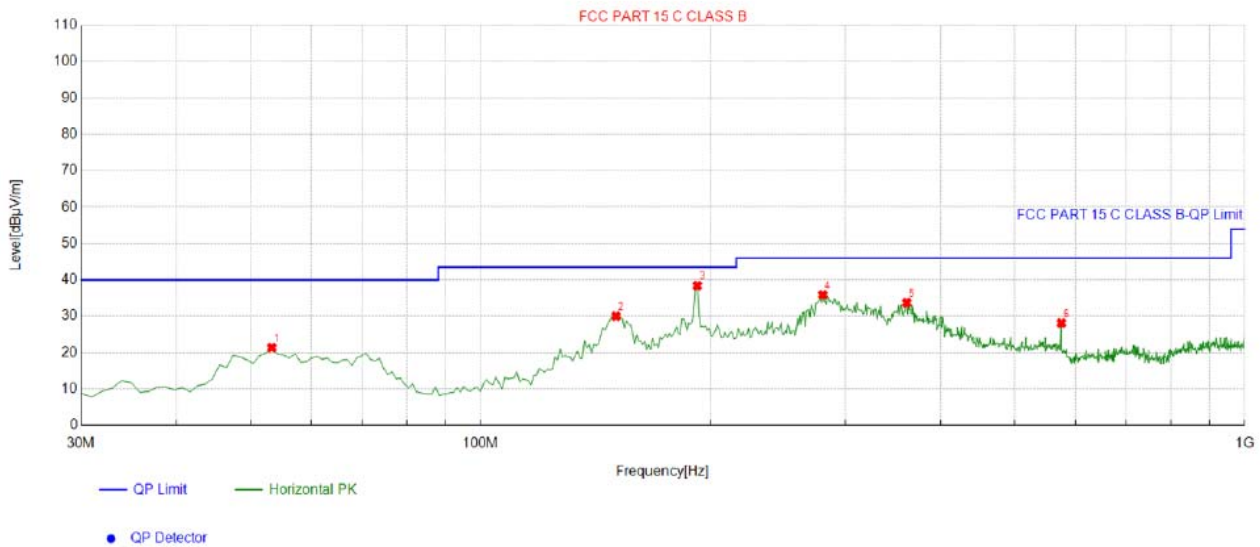
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.108737	20.39	34.95	55.34	106.87	51.53
2	0.14866	20.42	70.85	91.27	104.15	12.88
3	1.478989	20.50	27.35	47.85	64.23	16.38
4	2.583992	20.30	20.96	41.26	69.50	28.24
5	5.854202	20.44	15.55	35.99	69.50	33.51
6	10.31901	20.11	11.58	31.69	69.50	37.81

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



For 30MHz-1GHz

Antenna polarity: H



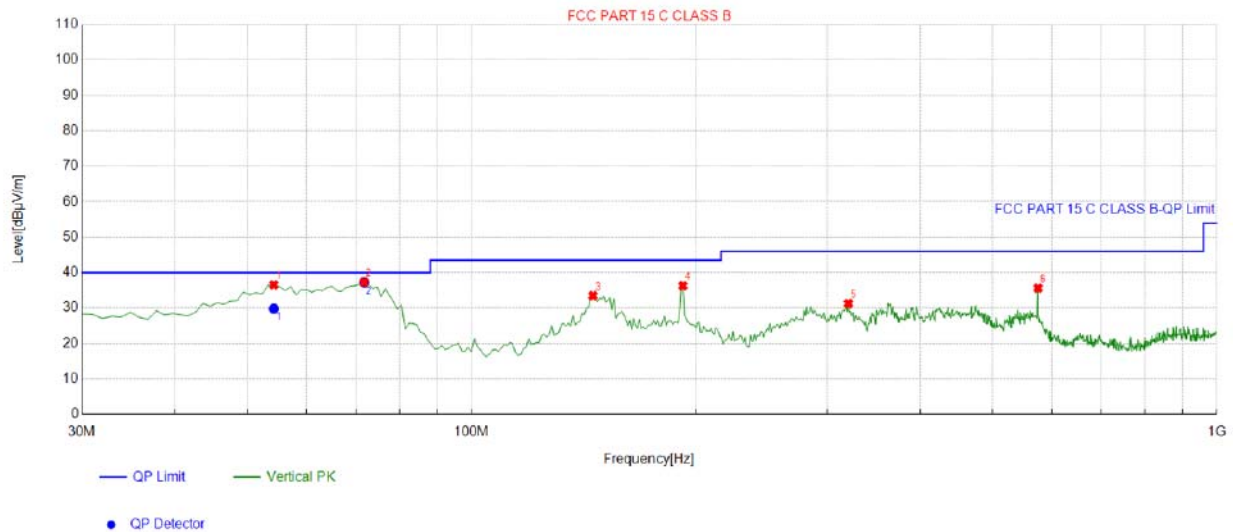
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.303303	-13.66	35.02	21.36	40.00	18.64	100	201	Horizontal
2	150.4004	-18.13	48.13	30.00	43.50	13.50	100	243	Horizontal
3	192.15215	-15.74	54.14	38.40	43.50	5.10	100	39	Horizontal
4	280.51051	-12.61	48.47	35.86	46.00	10.14	100	215	Horizontal
5	361.10110	-9.80	43.49	33.69	46.00	12.31	100	240	Horizontal
6	575.68568	-5.53	33.67	28.14	46.00	17.86	100	184	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: V



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.274274	-13.50	50.03	36.53	40.00	3.47	100	280	Vertical
2	71.751752	-17.38	54.68	37.30	40.00	2.70	100	308	Vertical
3	145.54554	-18.27	51.75	33.48	43.50	10.02	100	45	Vertical
4	192.15215	-15.74	52.01	36.27	43.50	7.23	100	86	Vertical
5	320.32032	-11.20	42.48	31.28	46.00	14.72	100	206	Vertical
6	575.68568	-5.53	41.14	35.61	46.00	10.39	100	357	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.27427	-13.50	43.31	29.81	40.00	10.19	100	280	Vertical
2	71.75175	-17.38	54.59	37.21	40.00	2.79	100	308	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



5. Antenna Requirement

Standard Applicable

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.

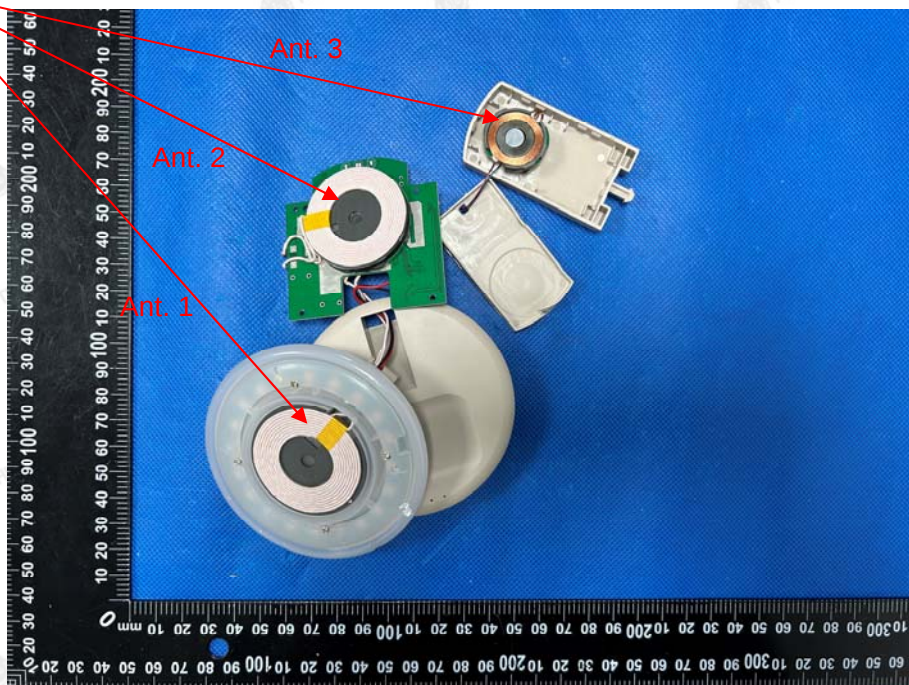
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

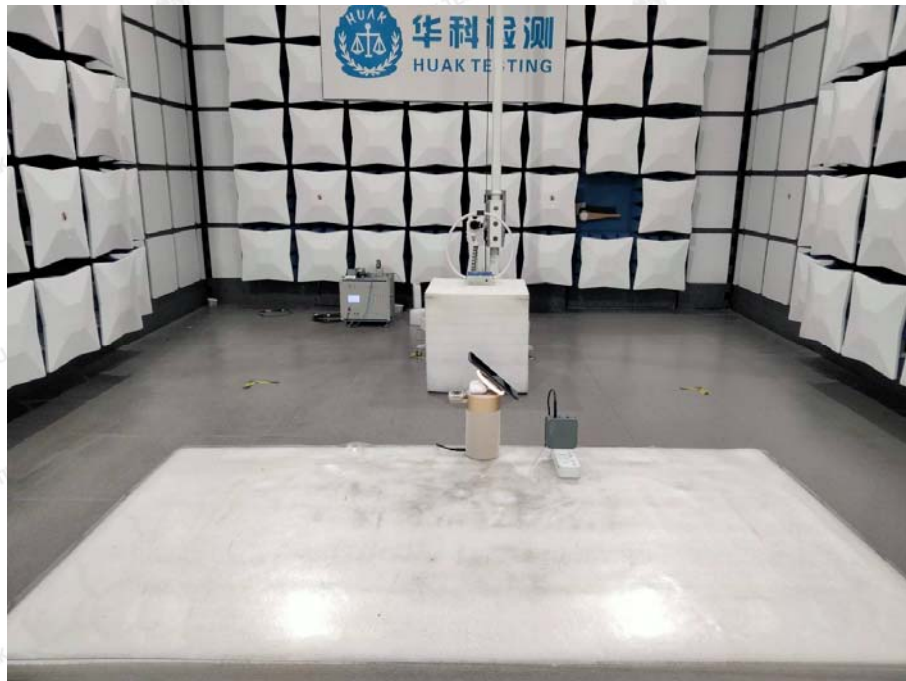
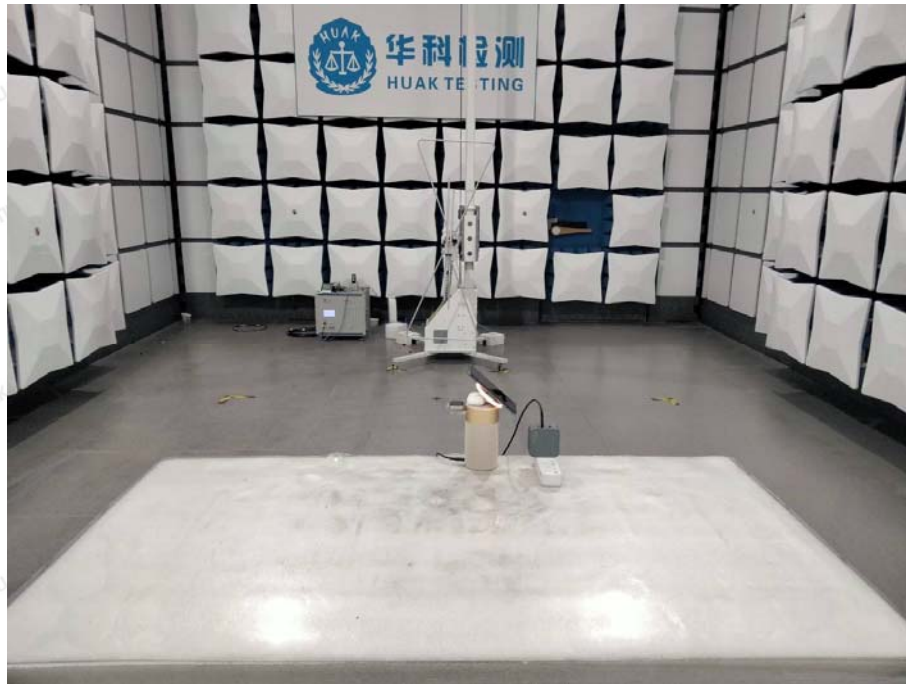
Antenna





6. Photograph of Test

Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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Conducted Emission





7. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

