

FCC TEST REPORT

Client Name : Anker Innovations Limited

Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road,
Mongkok, Kowloon, Hongkong

Product Name : Roav SmartCharge F3

Date : Jun. 15, 2020



Shenzhen Anbotech Compliance Laboratory Limited

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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited.
Product Name : Roav SmartCharge F3
Model No. : R5132
Trade Mark : ROAV
Input: DC 12~24V, 2A
Rating(s) : Output: DC 5V, 1A
QC 3.0 Output DC 3.6V~6.5V, 3A, DC 6.5V~9V, 2A, DC 9~12V, 1.5A

Test Standard(s) : FCC Part15 Subpart C 2018, Section 15.247

Test Method(s) : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of receipt

Sept. 26, 2018

Date of Test

Sept. 26~Oct. 24, 2018~Nov. 07~Dec. 23, 2019

Prepared By

Dolly mo

(Engineer / Dolly Mo)

Reviewer

Bibo Zhang

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

Tom Chen

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong

1.2. Description of Device (EUT)

Product Name	:	Roav SmartCharge F3	
Model No.	:	R5132	
Trade Mark	:	ROAV	
Test Power Supply	:	DC 12-24V DC 12V-24V (Note: Except RE, the rest items only reflect the data of the worst test voltage, namely "DC 12V".)	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	BT: 2402~2480MHz FM: 88.1-107.9MHz
	:	Transfer Rate:	BT 5.0 EDR: 1/2/3 Mbits/s BT 5.0 BLE: 1 Mbits/s
	:	Number of Channel:	BT5.0: 79 Channels BT 5.0 BLE: 40 Channels FM: 199 Channels
	:	Modulation Type:	BT 5.0 EDR: GFSK, $\pi/4$ -DQPSK, 8-DPSK BT 5.0 BLE: GFSK FM: FM
	:	Antenna Type:	BT: PCB Antenna FM: Spring Antenna
	:	Antenna Gain(Peak):	3.5 dBi

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2) This report is based on original report SZAWW180926006-02.

3) Both reports are the same except updated the report date, report no, radiation spurious emission data and product chip.

4) This report is for BLE module.

1.3. Auxiliary Equipment Used During Test

N/A	
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1.4. Description of Test Modes

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.

Pretest Mode	Description	
Mode 1	CH00	TX+ Charging Mode/TX Only
Mode 2	CH19	
Mode 3	CH39	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

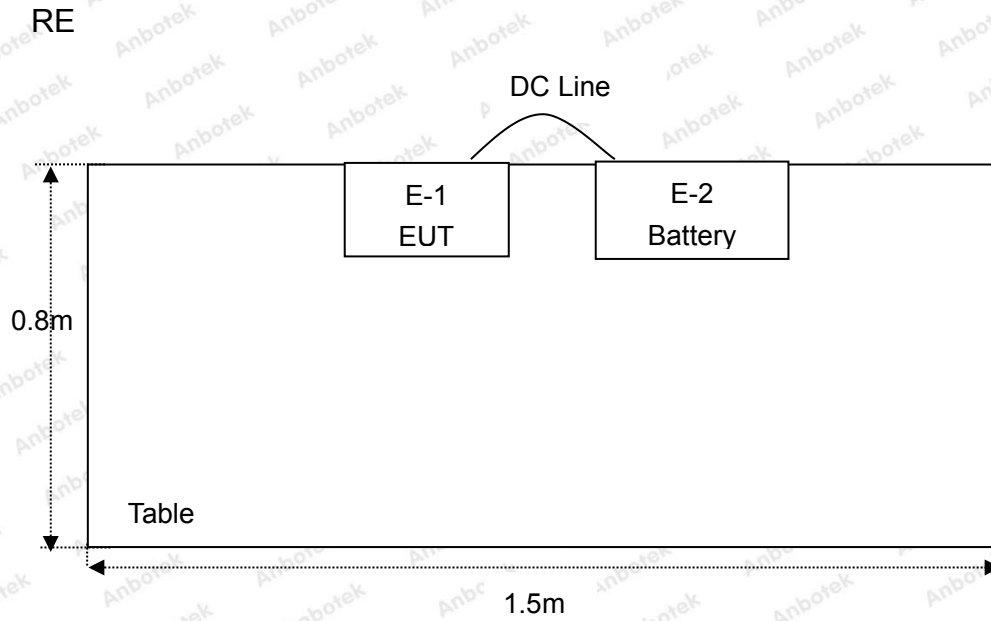
1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT built-in battery-powered, fully-charged battery use of the test battery.

1.6. Description Of Test Setup



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

Test Location

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.205/15.209	Spurious Emission	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

3. Conducted Emission Test

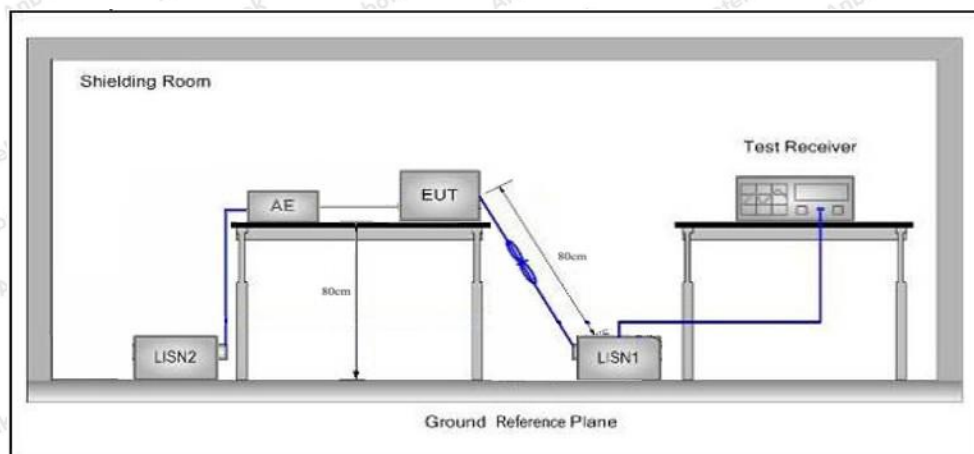
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

The EUT is powered DC 12V/ DC 24V, so there is no need to conduct this test.

The device is vehicle used only.

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

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

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

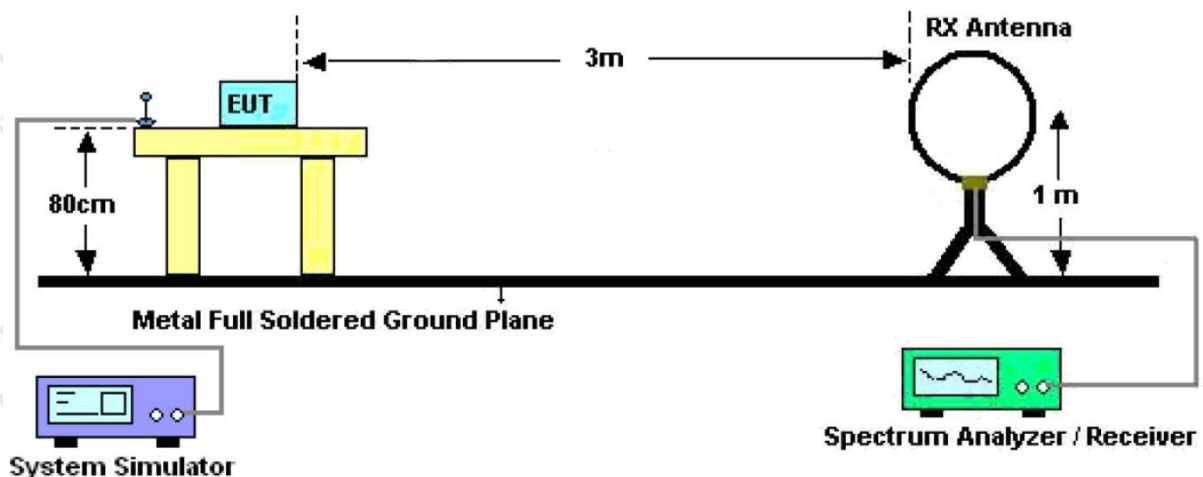


Figure 1. Below 30MHz

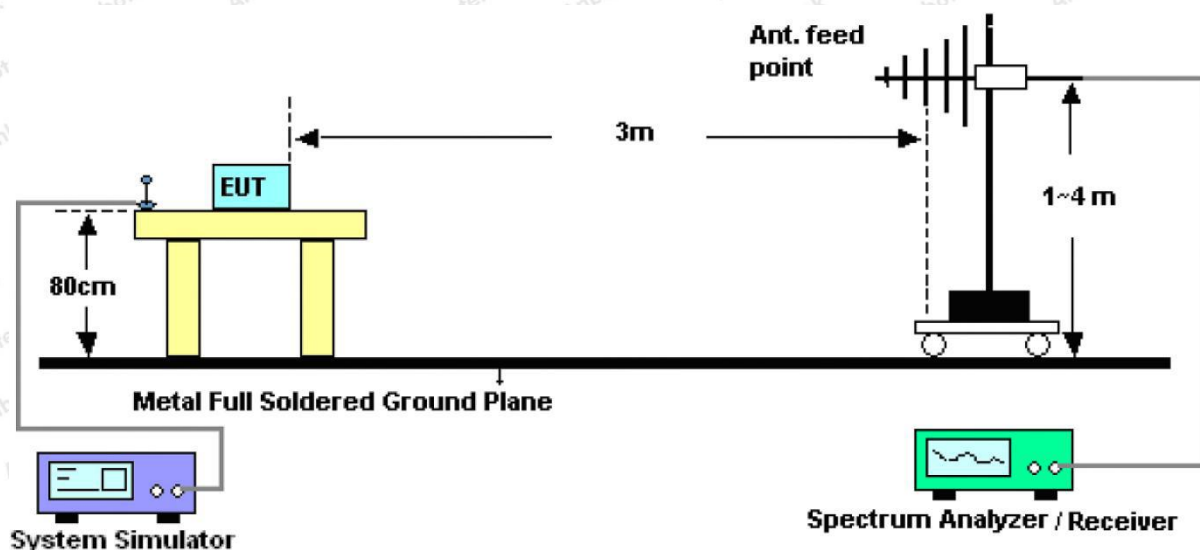


Figure 2. 30MHz to 1GHz

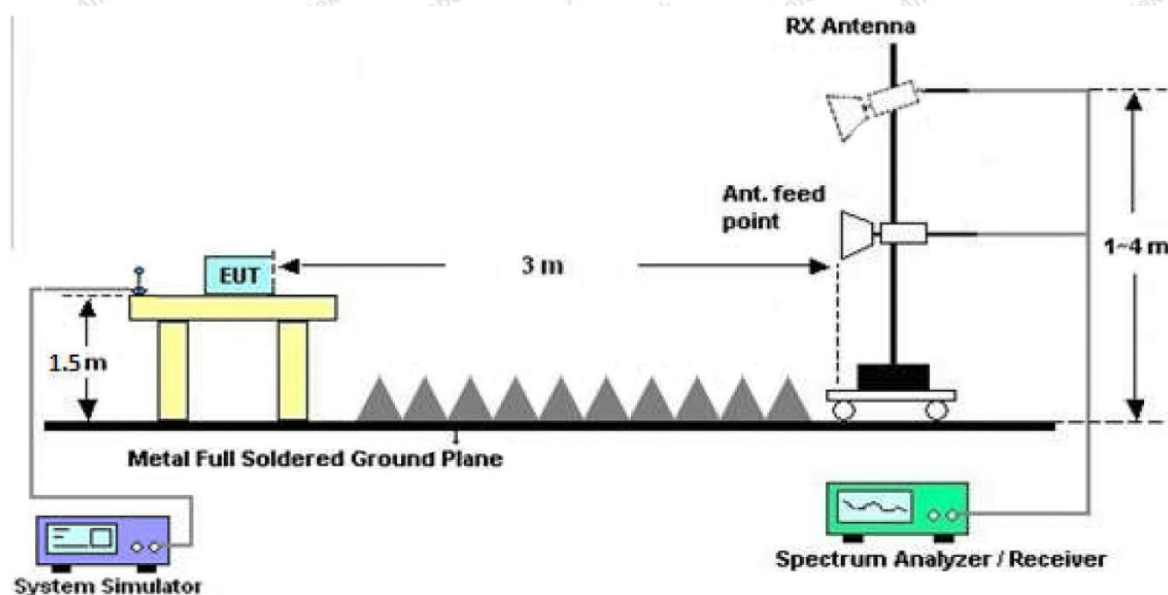


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Shenzhen Anbotech Compliance Laboratory Limited

Code:AB-RF-05-a

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

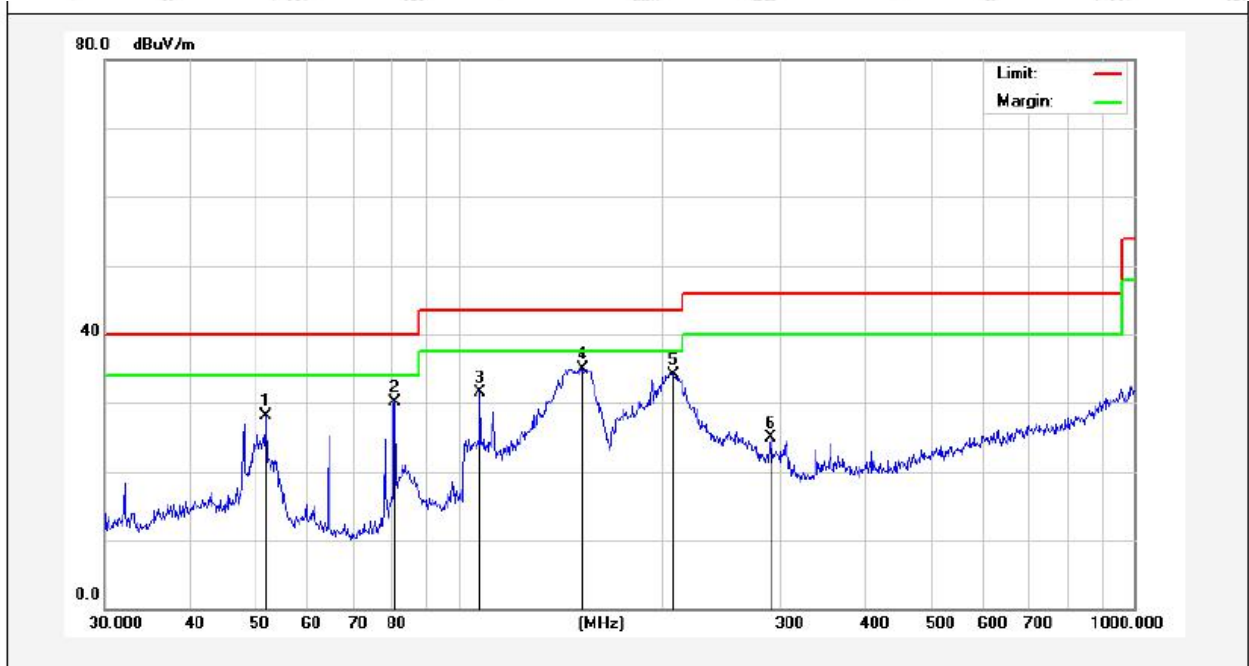
During the test, pre-scan all the modes, and found the Middle channel(TX+Charging Mode) which is the worst case, only the worst case is recorded in the report.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Results (30~1000MHz)

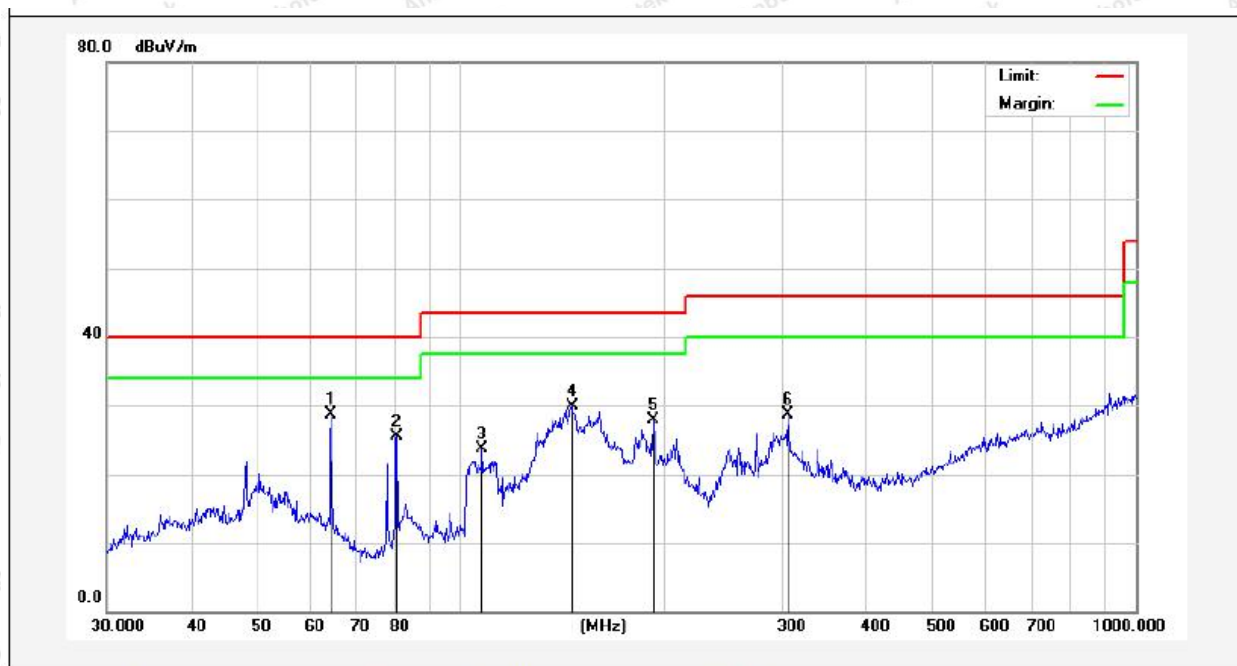
Test Mode: Mode 2
Power Source: DC 12V
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	52.0251	43.71	-15.53	28.18	40.00	-11.82	peak			
2	80.6442	47.66	-17.57	30.09	40.00	-9.91	peak			
3	107.8877	47.48	-15.90	31.58	43.50	-11.92	peak			
4	152.6640	54.76	-19.78	34.98	43.50	-8.52	peak			
5	208.5801	51.07	-16.87	34.20	43.50	-9.30	peak			
6	290.0172	38.68	-13.77	24.91	46.00	-21.09	peak			

Test Results (30~1000MHz)

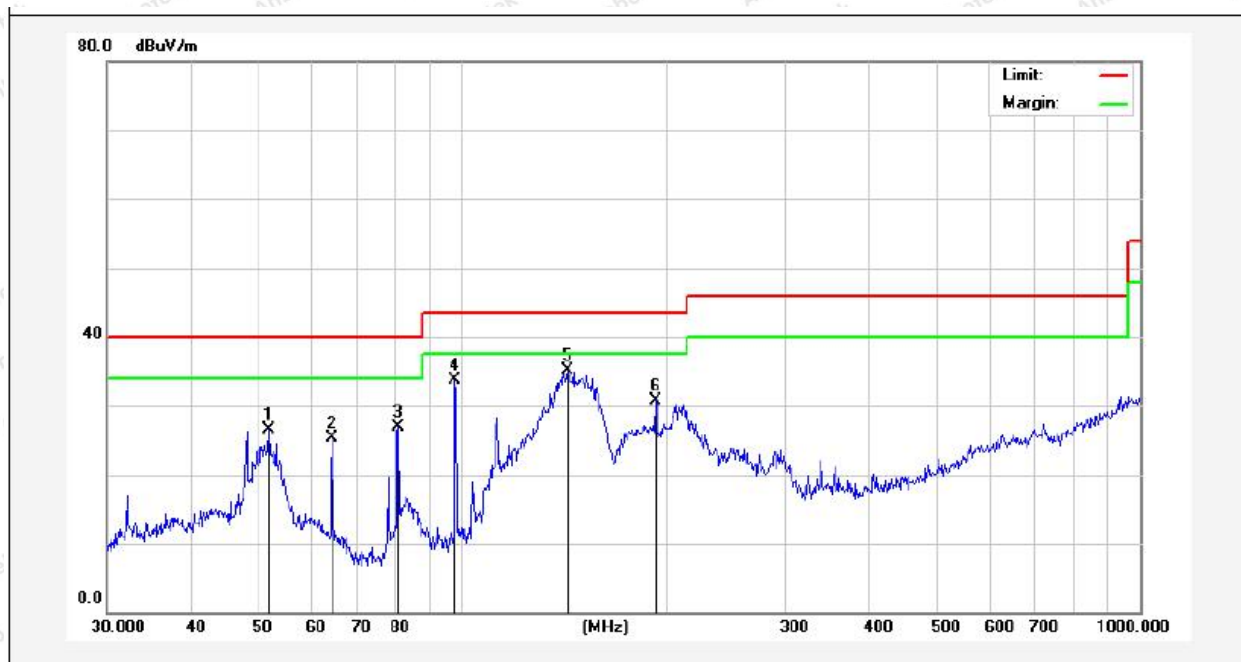
Test Mode: Mode 2
Power Source: DC 12V
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	64.4331	46.54	-17.78	28.76	40.00	-11.24	peak			
2	80.6442	47.00	-21.55	25.45	40.00	-14.55	peak			
3	107.8877	44.59	-20.85	23.74	43.50	-19.76	peak			
4	146.3735	50.77	-20.77	30.00	43.50	-13.50	peak			
5	193.0945	48.01	-20.20	27.81	43.50	-15.69	peak			
6	305.6800	42.78	-14.15	28.63	46.00	-17.37	peak			

Test Results (30~1000MHz)

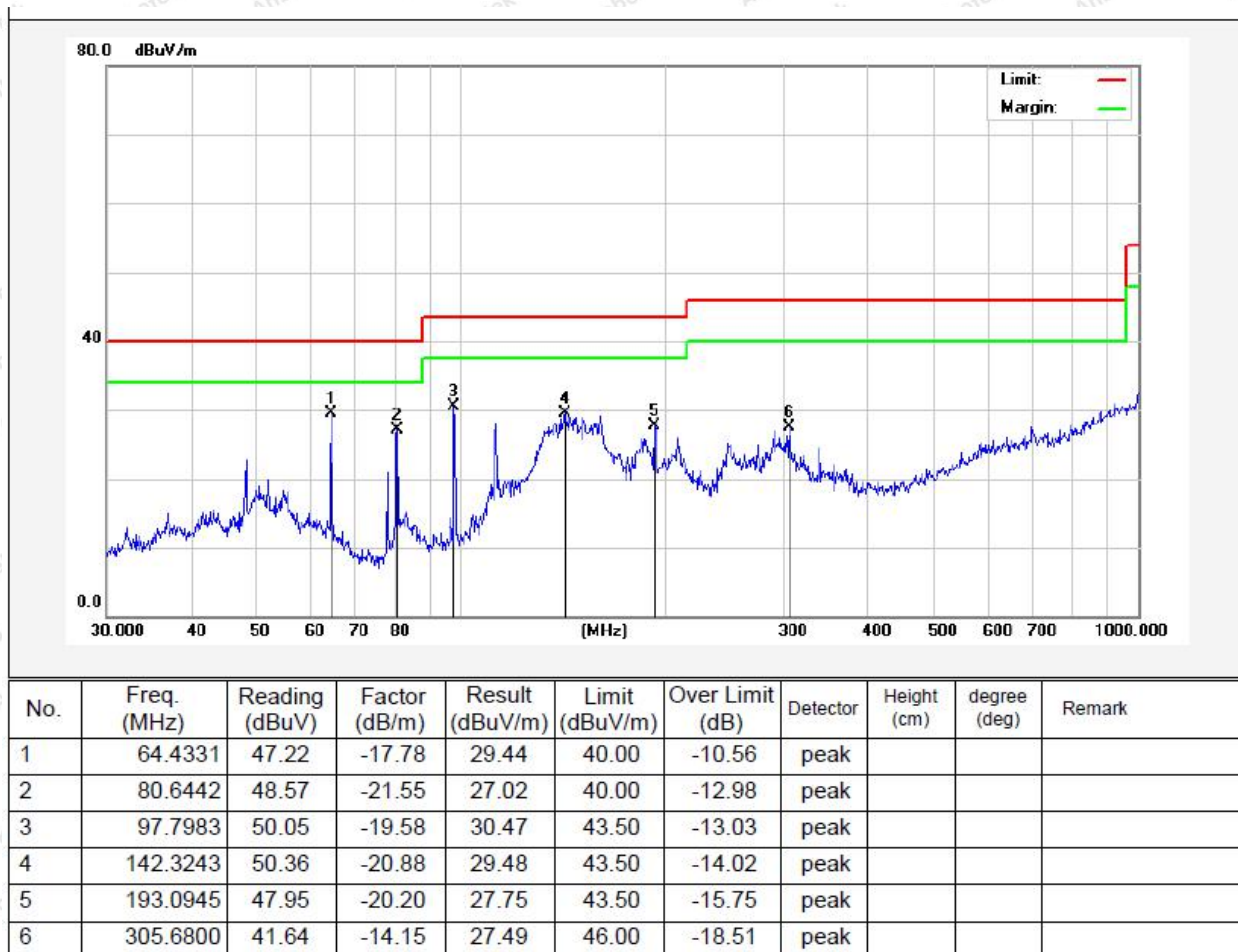
Test Mode: Mode 2
Power Source: DC 24V
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	51.8430	42.00	-15.47	26.53	40.00	-13.47	peak			
2	64.4331	43.07	-17.78	25.29	40.00	-14.71	peak			
3	80.6442	44.43	-17.57	26.86	40.00	-13.14	peak			
4	97.7983	48.70	-14.97	33.73	43.50	-9.77	peak			
5	143.3261	55.07	-20.02	35.05	43.50	-8.45	peak			
6	193.0945	48.36	-17.56	30.80	43.50	-12.70	peak			

Test Results (30~1000MHz)

Test Mode: Mode 2
Power Source: DC 24V
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23°C/54%RH



Test Results (1GHz-25GHz)

Test Mode: CH00					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	37.99	34.04	6.58	34.09	44.52	74.00	-29.48	V
7206.00	32.29	37.11	7.73	34.50	42.63	74.00	-31.37	V
9608.00	31.88	39.31	9.23	34.79	45.63	74.00	-28.37	V
12010.00	*					74.00		V
14412.00	*					74.00		V
4804.00	42.42	34.04	6.58	34.09	48.95	74.00	-25.05	H
7206.00	34.10	37.11	7.73	34.50	44.44	74.00	-29.56	H
9608.00	31.36	39.31	9.23	34.79	45.11	74.00	-28.89	H
12010.00	*					74.00		H
14412.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	26.68	34.04	6.58	34.09	33.21	54.00	-20.79	V
7206.00	20.90	37.11	7.73	34.50	31.24	54.00	-22.76	V
9608.00	19.93	39.31	9.23	34.79	33.68	54.00	-20.32	V
12010.00	*					54.00		V
14412.00	*					54.00		V
4804.00	30.98	34.04	6.58	34.09	37.51	54.00	-16.49	H
7206.00	23.11	37.11	7.73	34.50	33.45	54.00	-20.55	H
9608.00	19.72	39.31	9.23	34.79	33.47	54.00	-20.53	H
12010.00	*					54.00		H
14412.00	*					54.00		H

Test Results (1GHz-25GHz)

Test Mode: CH19					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880.00	37.15	34.38	6.69	34.09	44.13	74.00	-29.87	V
7320.00	31.73	37.22	7.78	34.53	42.20	74.00	-31.80	V
9760.00	31.38	39.46	9.35	34.80	45.39	74.00	-28.61	V
12200.00	*					74.00		V
14640.00	*					74.00		V
4880.00	41.40	34.38	6.69	34.09	48.38	74.00	-25.62	H
7320.00	33.47	37.22	7.78	34.53	43.94	74.00	-30.06	H
9760.00	30.78	39.46	9.35	34.80	44.79	74.00	-29.21	H
12200.00	*					74.00		H
14640.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880.00	26.00	34.38	6.69	34.09	32.98	54.00	-21.02	V
7320.00	20.44	37.22	7.78	34.53	30.91	54.00	-23.09	V
9760.00	19.52	39.46	9.35	34.80	33.53	54.00	-20.47	V
12200.00	*					54.00		V
14640.00	*					54.00		V
4880.00	30.22	34.38	6.69	34.09	37.20	54.00	-16.80	H
7320.00	22.60	37.22	7.78	34.53	33.07	54.00	-20.93	H
9760.00	19.24	39.46	9.35	34.80	33.25	54.00	-20.75	H
12200.00	*					54.00		H
14640.00	*					54.00		H

Test Results (1GHz-25GHz)

Test Mode: CH39					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960.00	36.52	34.72	6.79	34.09	43.94	74.00	-30.06	V
7440.00	31.31	37.34	7.82	34.57	41.90	74.00	-32.10	V
9920.00	31.01	39.62	9.46	34.81	45.28	74.00	-28.72	V
12400.00	*					74.00		V
14880.00	*					74.00		V
4960.00	40.65	34.72	6.79	34.09	48.07	74.00	-25.93	H
7440.00	33.00	37.34	7.82	34.57	43.59	74.00	-30.41	H
9920.00	30.36	39.62	9.46	34.81	44.63	74.00	-29.37	H
12400.00	*					74.00		H
14880.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960.00	25.55	34.72	6.79	34.09	32.97	54.00	-21.03	V
7440.00	20.13	37.34	7.82	34.57	30.72	54.00	-23.28	V
9920.00	19.25	39.62	9.46	34.81	33.52	54.00	-20.48	V
12400.00	*					54.00		V
14880.00	*					54.00		V
4960.00	29.70	34.72	6.79	34.09	37.12	54.00	-16.88	H
7440.00	22.26	37.34	7.82	34.57	32.85	54.00	-21.15	H
9920.00	18.92	39.62	9.46	34.81	33.19	54.00	-20.81	H
12400.00	*					54.00		H
14880.00	*					54.00		H

Remark:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

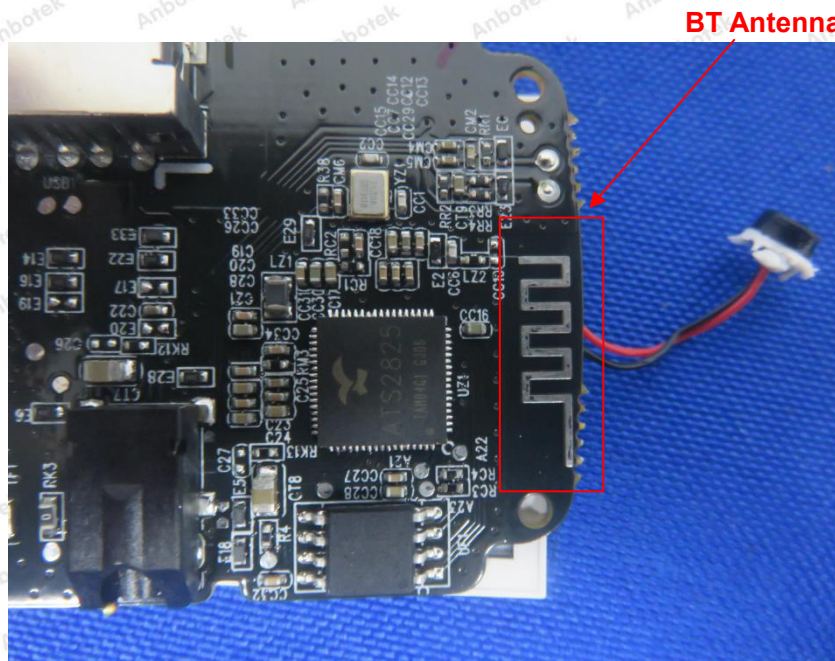
5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: 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, 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. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna

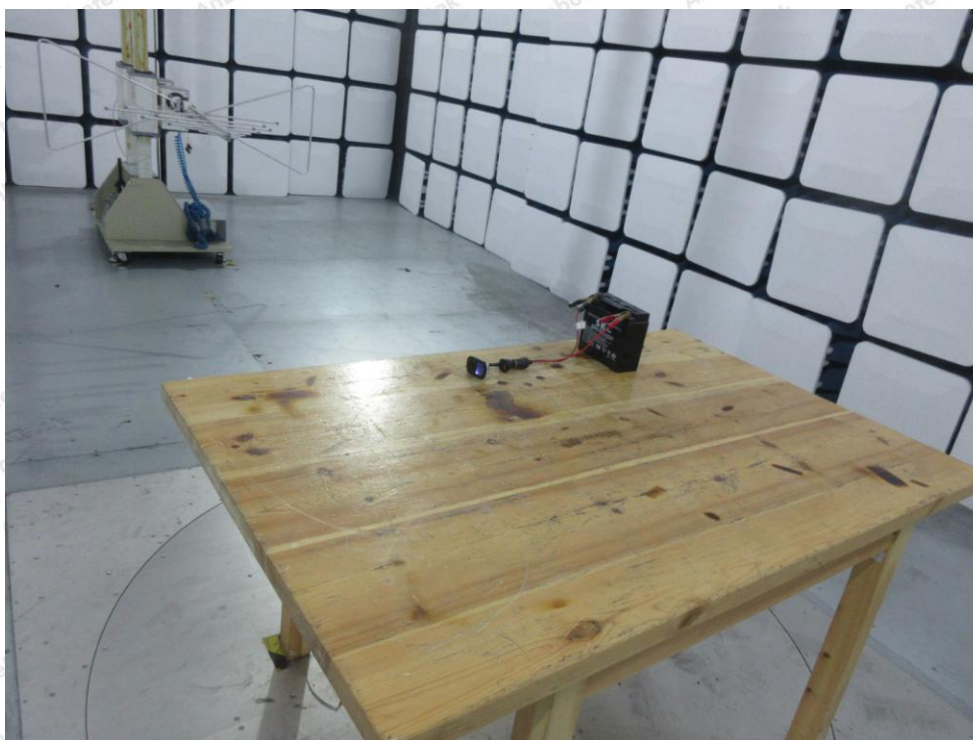
5.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 3.5 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

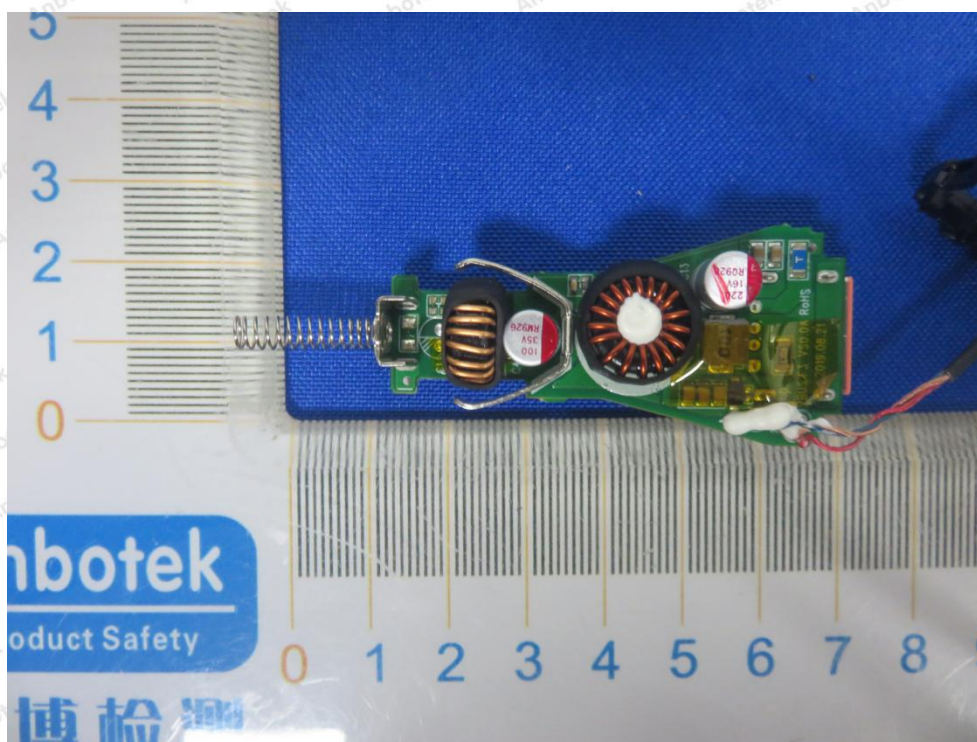
Photo of Radiation Emission Test

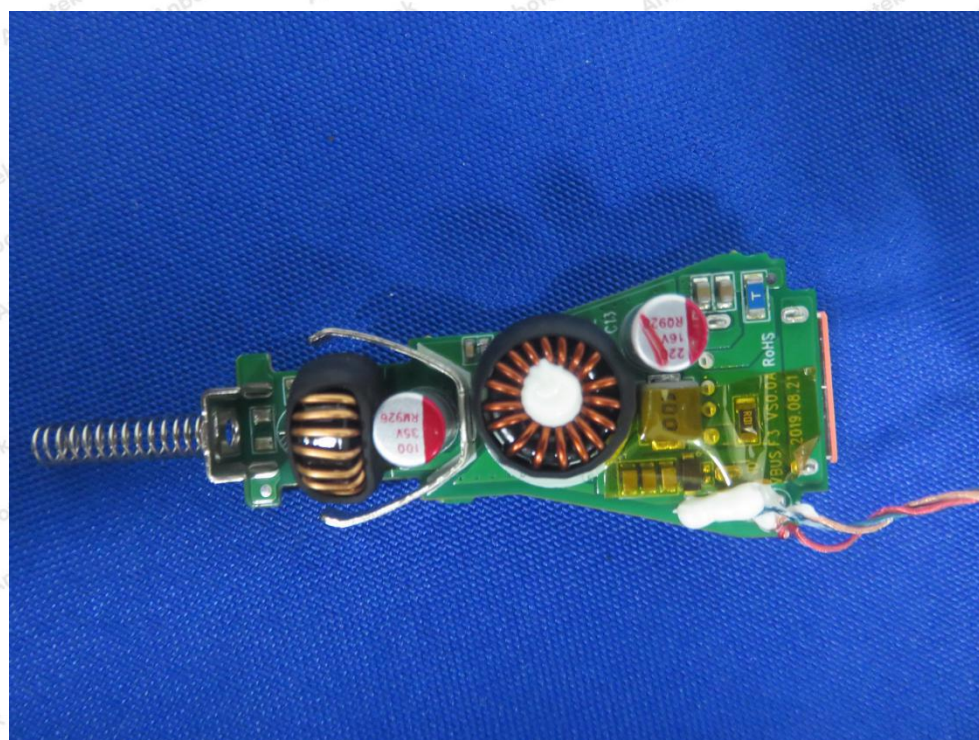
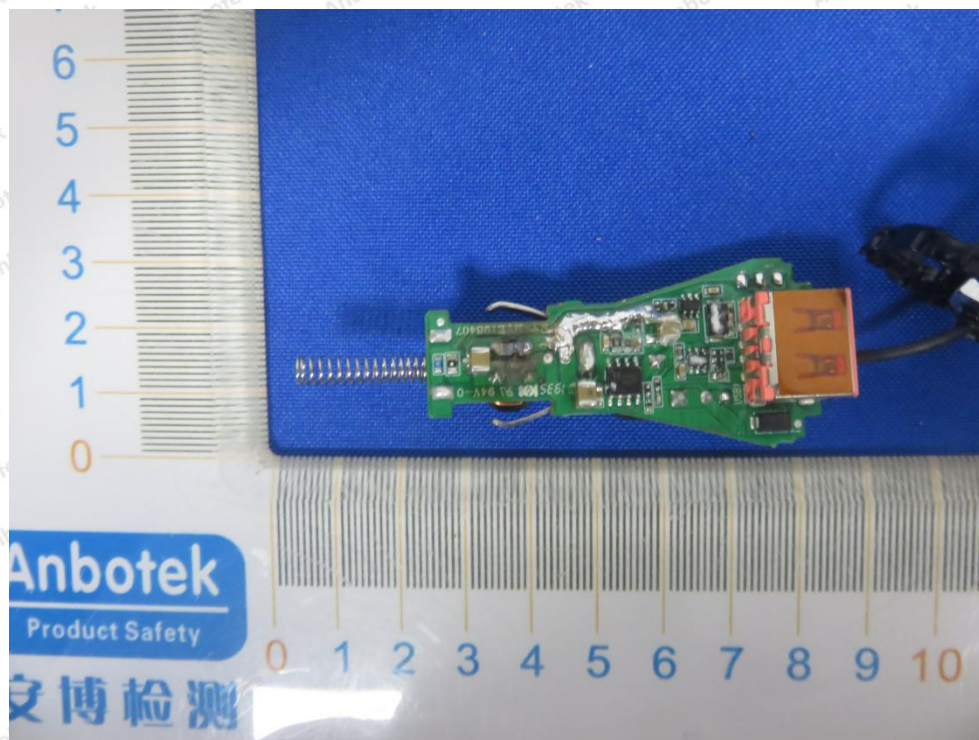


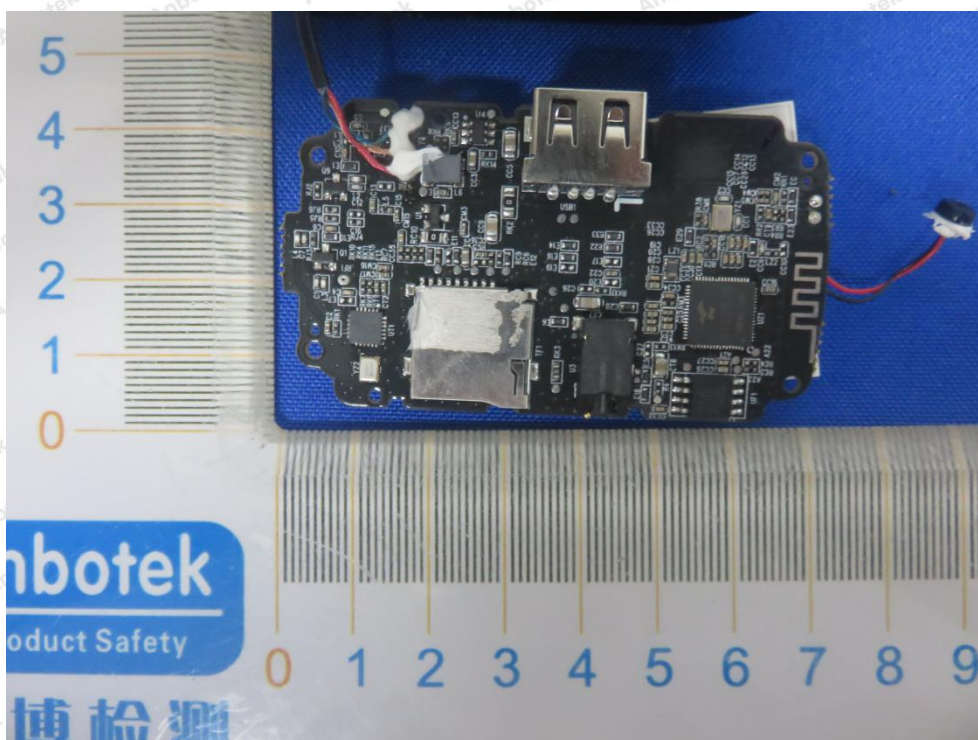
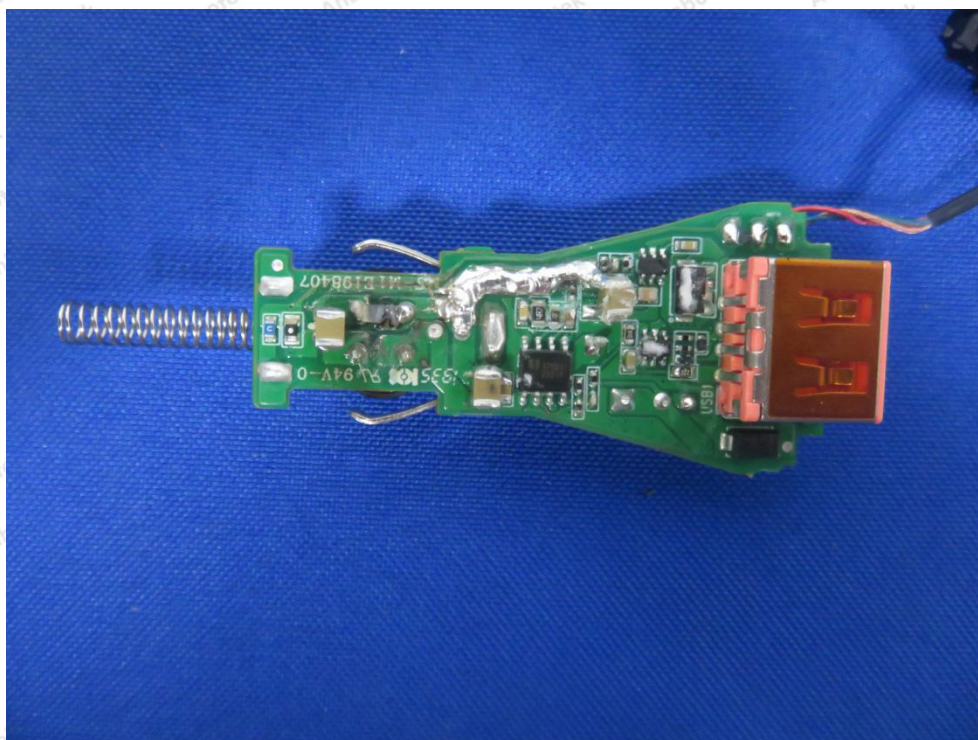
APPENDIX II -- EXTERNAL PHOTOGRAPH

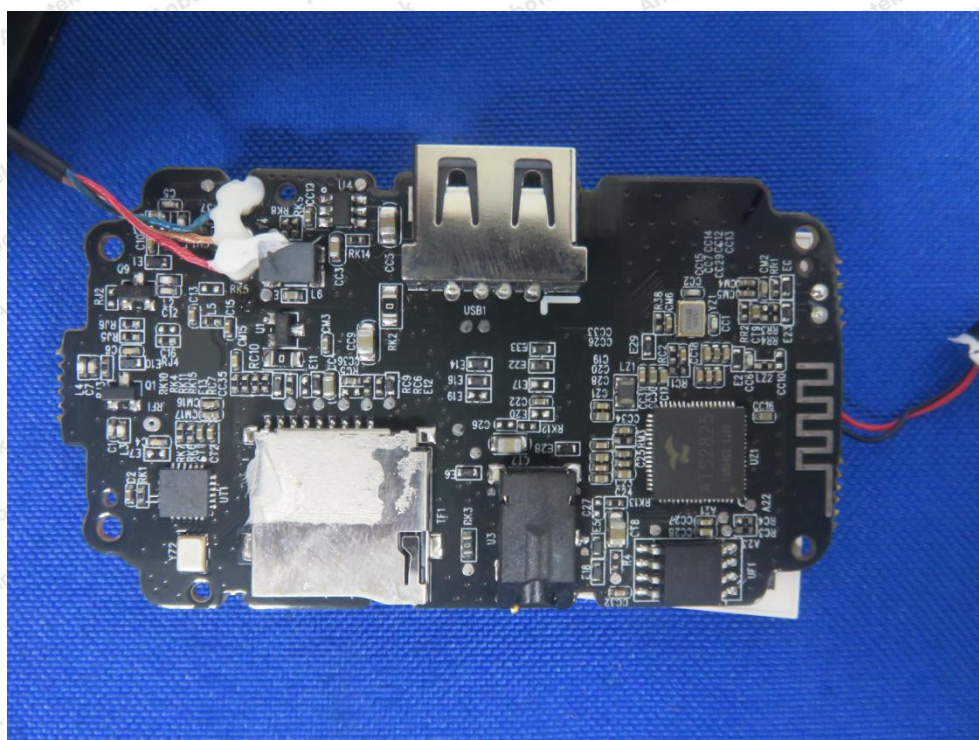
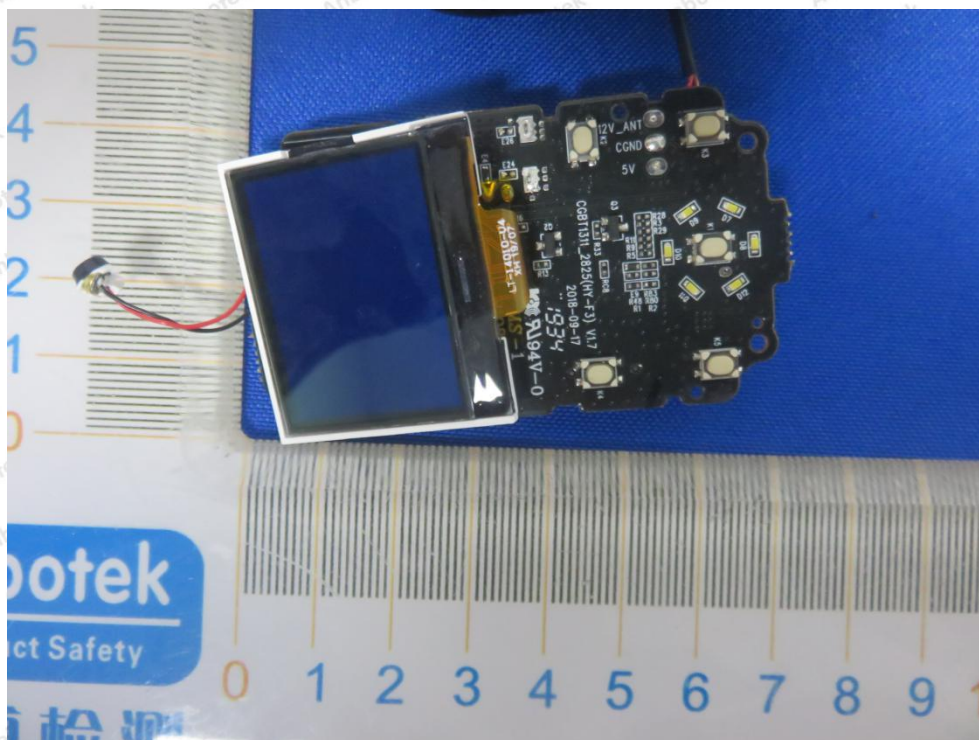


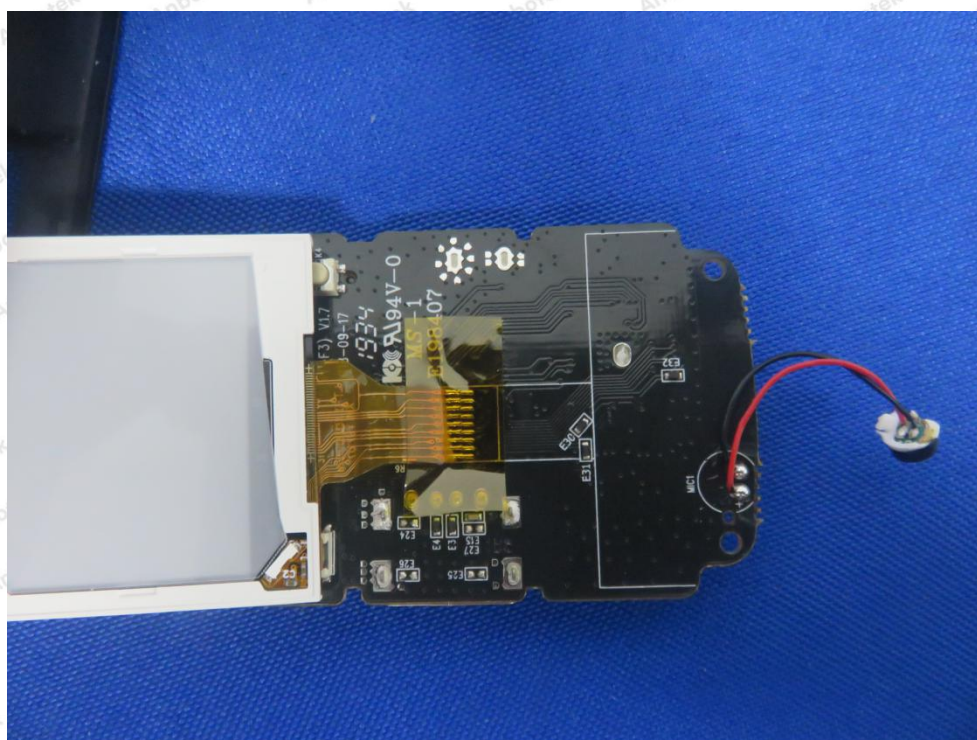


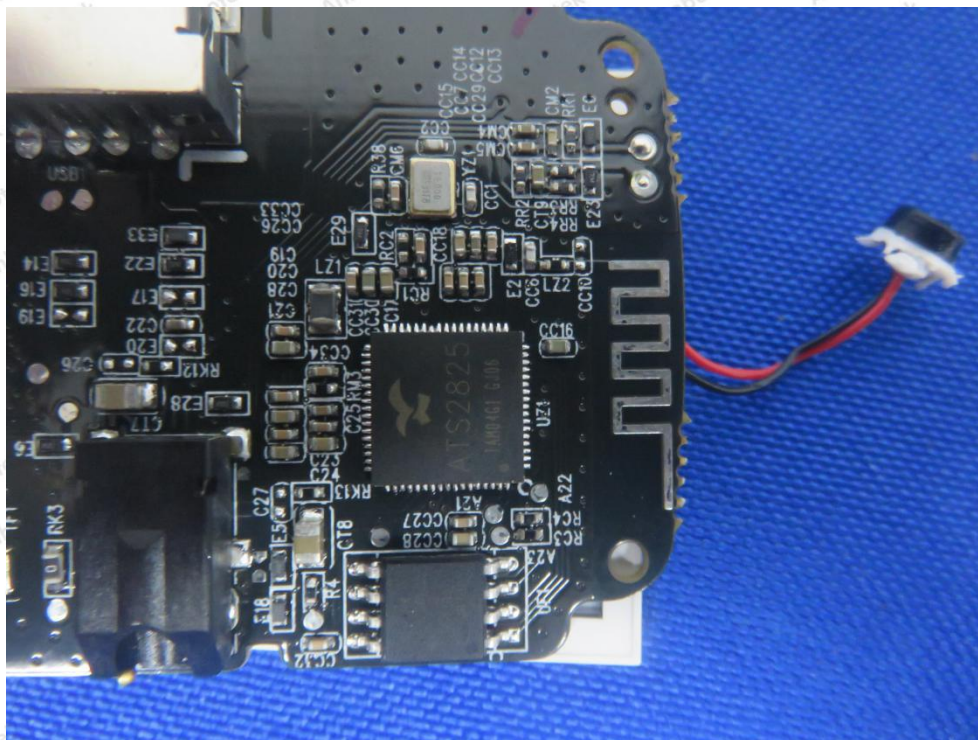
APPENDIX III -- INTERNAL PHOTOGRAPH











----- End of Report -----

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