



FCC TEST REPORT

FCC ID: 2AFJVHZ-PL5

On Behalf of

ShenZhen HuaZeng Technology Co., Ltd

UV Sterilizer Box with Wireless Charging

Model No.: HZ-PL5

Report Number : A2006325-C01-R11
Date of Receipt : July 9, 2020
Date of Test : July 9-16, 2020
Date of Report : July 16, 2020
Version Number : V0

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TEST REPORT DECLARATION

Applicant : ShenZhen HuaZeng Technology Co., Ltd
Address : Floor 8th, Building 6, 3rd Industrial Zone, Tangwei District, Gongming Street, Guangming, Shenzhen, Guangdong, China
Manufacturer : ShenZhen HuaZeng Technology Co., Ltd
Address : Floor 8th, Building 6, 3rd Industrial Zone, Tangwei District, Gongming Street, Guangming, Shenzhen, Guangdong, China
EUT Description : UV Sterilizer Box with Wireless Charging
(A) Model No. : HZ-PL5
(B) Trademark : N/A

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC CFR Title 47 Part 15 Subpart C Section 15.209 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Lucas Pang
Project Engineer



Approved by (name + signature).....: Simple Guan
Project Manager



Date of issue.....: July 16, 2020

Revision History

Revision	Issue Date	Revisions	Revised By
V0	July 16, 2020	Initial released Issue	Lucas Pang

1. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS
Occupied Bandwidth	§15.215 (c)	PASS

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.*

2. General Information

2.1. Description of Device (EUT)

EUT Name : UV Sterilizer Box with Wireless Charging

Model No. : HZ-PL5

DIFF. : N/A

Power supply : Wireless Output: 10W(max)
USB Input: 5V/2A, 9V/2A

Test voltage : DC 5V or DC 9V from adapter.

Operation frequency : 125-205KHz

Modulation : MSK

Antenna Type : Coil Antenna, Maximum Gain is 4dBi

Software version : V1.0

Hardware version : V1.0

Intend use environment : Residential, commercial and light industrial environment

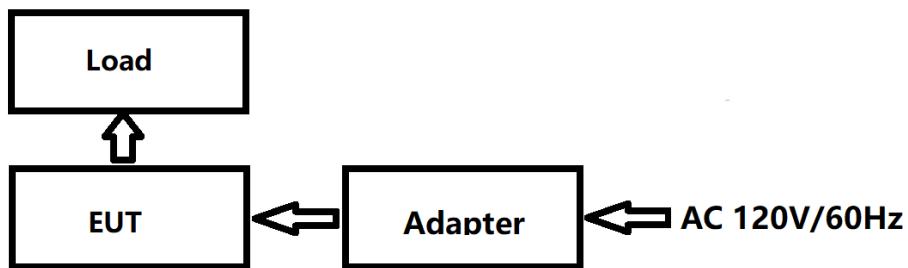
2.2. Accessories of Device (EUT)

Accessories1 : /
 Manufacturer : /
 Model : /
 Ratings : /

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1	Adapter	HUAWEI	HW-100400C01	YB91YCK9L00234	--
2	Load	--	--	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Channel	Frequency (KHz)						
1	125	6	150	11	175	16	200
2	130	7	155	12	180	17	205
3	135	8	160	13	185	18	
4	140	9	165	14	190	19	
5	145	10	170	15	195	20	

Note: Pre-San all output power mode, and only worst data listed in report (DC 5V/1A).

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	980kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

September 15, 2019 Certificated by IC
Registration Number: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Conducted Emission Test	2.74dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB	Polarize: V
	3.80dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.13dB	Polarize: H
	4.16dB	Polarize: V
Uncertainty for radio frequency	5.4×10^{-8}	
Uncertainty for conducted RF Power	0.37dB	

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2019.09.06	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	102137	2019.09.05	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2019.09.05	1Year
Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-1020 82-Wa	2019.09.06	1Year
Receiver	R&S	ESCI	101165	2019.09.05	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2019.09.07	2Year
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Active Loop Antenna	SCHWARZBEC K	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2019.09.05	1Year
Cable	Resenberger	N/A	No.2	2019.09.05	1Year
Cable	Resenberger	N/A	No.3	2019.09.05	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2019.09.05	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2019.09.05	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2019.09.05	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2019.09.05	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2019.08.26	1 Year
Horn Antenna	SCHWARZBEC K	BBHA9170	00946	2019.09.07	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2019.09.06	1 Year
Power Meter	Agilent	E9300A	MY41496625	2019.09.06	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40-880	100631	2019.09.06	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2019.09.05	1 Year

3. Test Results and Measurement Data

3.1. Conducted Emission

3.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Frequency Range:	150 kHz to 30 MHz																
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto																
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test Setup:	<p>Reference Plane</p> <p>40cm</p> <p>80cm</p> <p>E.U.T — Adapter —> Test table/Insulation plane</p> <p>LISN — Filter — AC power —> EMI Receiver</p> <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test Mode:	Transmitting Mode																
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 																
Test Result:	PASS																

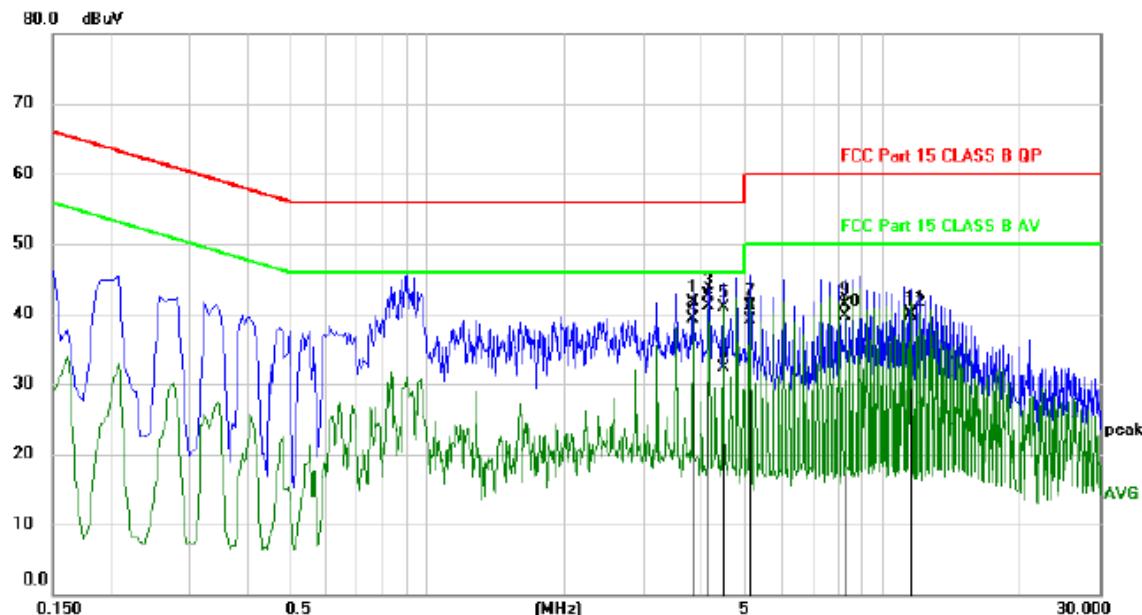
3.1.2. Test data

Please refer to following diagram for individual

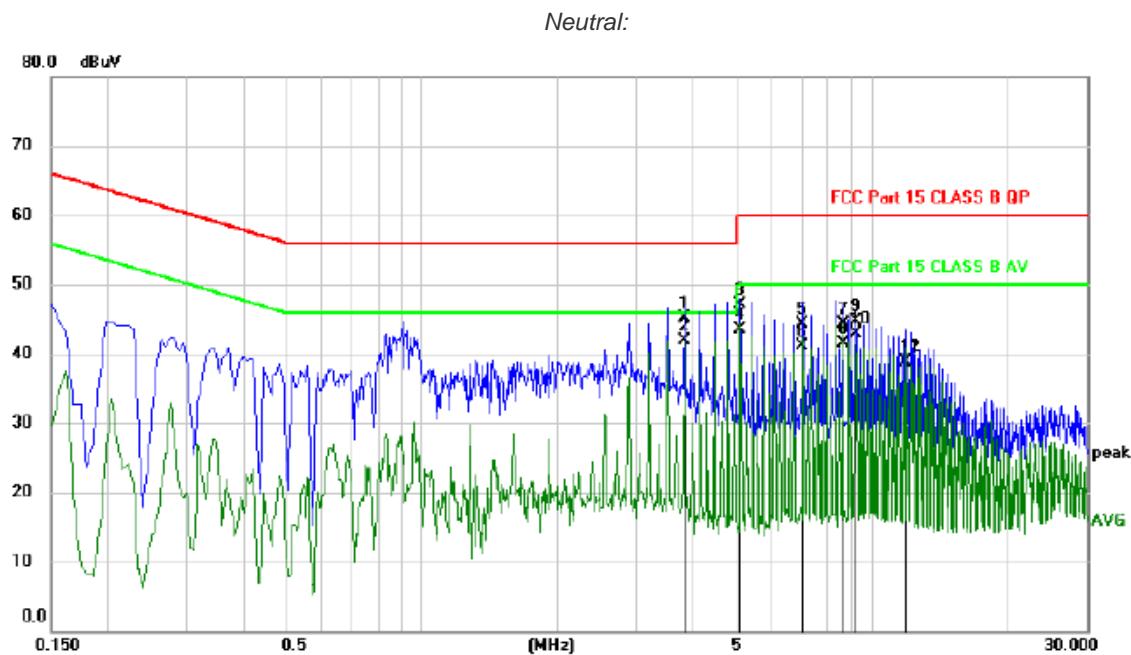
Test Mode	: Full load, Half load, Empty load
Test Results	: PASS
Note: The test results are listed in next pages.	
This mode is worst case mode, so this report only reflected the worst mode.	
If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.	
If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.	

Test result for Channel 125KHz, AC 120V/ 60Hz(Full Load Mode 10W)

Line:



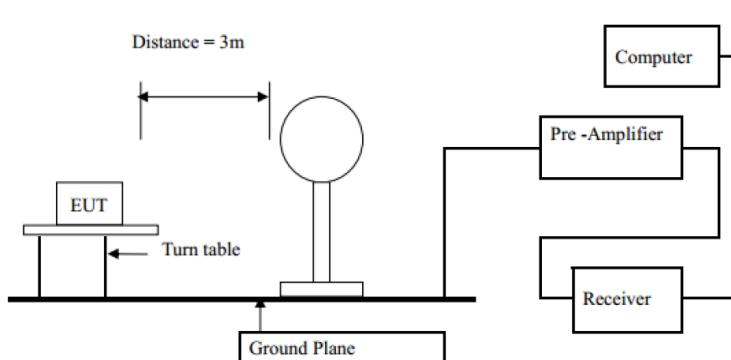
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment	
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		3.8340	31.68	9.96	41.64	56.00	-14.36	QP	
2		3.8340	29.39	9.96	39.35	46.00	-6.65	AVG	
3		4.1520	32.82	9.98	42.80	56.00	-13.20	QP	
4	*	4.1520	31.08	9.98	41.06	46.00	-4.94	AVG	
5		4.4760	31.00	10.00	41.00	56.00	-15.00	QP	
6		4.4760	22.22	10.00	32.22	46.00	-13.78	AVG	
7		5.1120	31.06	10.04	41.10	60.00	-18.90	QP	
8		5.1120	29.08	10.04	39.12	50.00	-10.88	AVG	
9		8.3100	31.24	10.16	41.40	60.00	-18.60	QP	
10		8.3100	29.63	10.16	39.79	50.00	-10.21	AVG	
11		11.5020	29.94	10.25	40.19	60.00	-19.81	QP	
12		11.5020	29.47	10.25	39.72	50.00	-10.28	AVG	

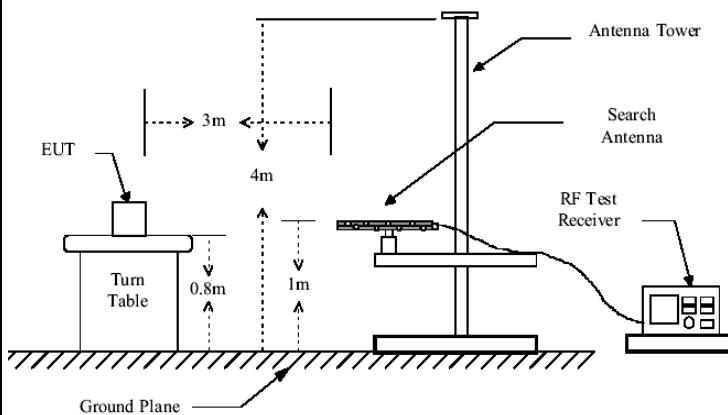


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dB	Detector	
1		3.8280	35.22	9.96	45.18	56.00	-10.82	QP
2	*	3.8280	31.85	9.96	41.81	46.00	-4.19	AVG
3		5.1060	37.06	10.04	47.10	60.00	-12.90	QP
4		5.1060	33.53	10.04	43.57	50.00	-6.43	AVG
5		7.0200	34.10	10.12	44.22	60.00	-15.78	QP
6		7.0200	30.94	10.12	41.06	50.00	-8.94	AVG
7		8.6160	34.05	10.17	44.22	60.00	-15.78	QP
8		8.6160	31.33	10.17	41.50	50.00	-8.50	AVG
9		9.2520	34.42	10.19	44.61	60.00	-15.39	QP
10		9.2520	32.69	10.19	42.88	50.00	-7.12	AVG
11		11.8080	28.42	10.25	38.67	60.00	-21.33	QP
12		11.8080	28.61	10.25	38.86	50.00	-11.14	AVG

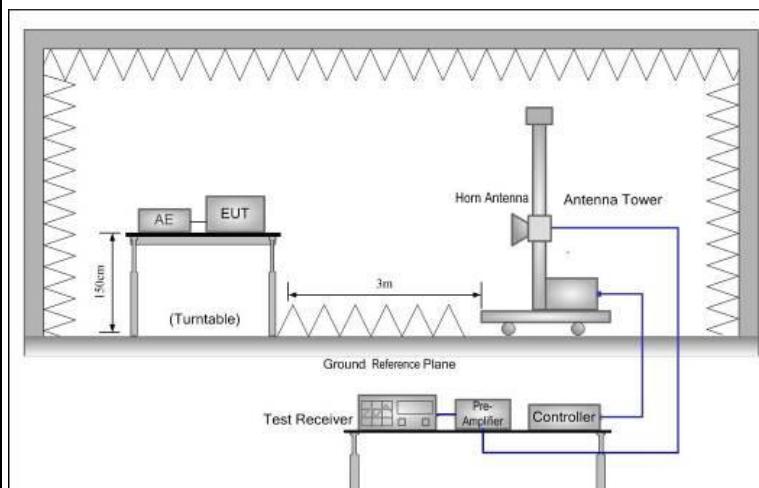
3.2. Radiated Spurious Emission Measurement

3.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209																																	
Test Method:	ANSI C63.10: 2013																																	
Frequency Range:	9 kHz to 25 GHz																																	
Measurement Distance:	3 m																																	
Antenna Polarization:	Horizontal & Vertical																																	
Operation mode:	Refer to item 4.1																																	
Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>9kHz- 150kHz</td> <td>Quasi-peak</td> <td>200Hz</td> <td>1kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>150kHz- 30MHz</td> <td>Quasi-peak</td> <td>9kHz</td> <td>30kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td><td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark																														
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value																														
150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value																														
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																														
Above 1GHz	Peak	1MHz	3MHz	Peak Value																														
	Peak	1MHz	10Hz	Average Value																														
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Field Strength (microvolts/meter)</th> <th>Measurement Distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/F(KHz)</td> <td>300</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/F(KHz)</td> <td>30</td> </tr> <tr> <td>1.705-30</td> <td>30</td> <td>30</td> </tr> <tr> <td>30-88</td> <td>100</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table>					Frequency	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	30	30	30-88	100	3	88-216	150	3	216-960	200	3	Above 960	500	3					
Frequency	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	30	30																																
30-88	100	3																																
88-216	150	3																																
216-960	200	3																																
Above 960	500	3																																
Test setup:	<p>For radiated emissions below 30MHz</p>  <p>Distance = 3m</p> <p>Turn table</p> <p>Ground Plane</p> <p>30MHz to 1GHz</p>																																	



Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is 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

	<p>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.</p> <p>2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>4. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none">(1) Span shall wide enough to fully capture the emission being measured;(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test mode:	Refer to section 4.1 for details
Test results:	PASS

3.2.2. Test Data

Please refer to following diagram for individual

Frequency Range	: 9KHz~30MHz
Test Mode	: TX: channel low, channel mid, channel high
Test Results	: PASS
<p>Note: 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.</p>	

Freq. (MHz)	Reading (dBuV/m)	Antenna Factor	Cable loss	Amp Factor	Result (dBuV/m)	Limit (dBuV/m) at 3 m	Margin (dB)	Detect or	State
									P/F
0.125	24.34	48.34	0.16	29.87	42.97	125.67	-82.7	PK	PASS
0.125	18.75	48.34	0.16	29.87	37.38	105.67	-68.3	AV	PASS
0.175	92.85	48.34	0.16	29.87	111.48	122.74	-11.3	PK	PASS
0.175	69.46	48.34	0.16	29.87	88.09	102.74	-14.7	AV	PASS
0.205	48.86	48.38	0.17	29.89	67.52	121.37	-53.9	PK	PASS
0.205	46.81	48.38	0.17	29.89	65.47	101.37	-35.9	AV	PASS
0.35	44.84	48.44	0.19	29.89	63.58	116.72	-53.1	PK	PASS
0.35	42.76	48.44	0.19	29.89	61.50	96.72	-35.2	AV	PASS
0.45	45.22	48.47	0.19	29.89	63.99	114.54	-50.6	PK	PASS
0.45	42.43	48.47	0.19	29.89	61.20	94.54	-33.3	AV	PASS
1.928	18.02	49.12	0.2	29.94	37.40	69.54	-32.1	QP	PASS
1.920	21.54	49.12	0.2	29.94	40.92	69.54	-28.6	QP	PASS

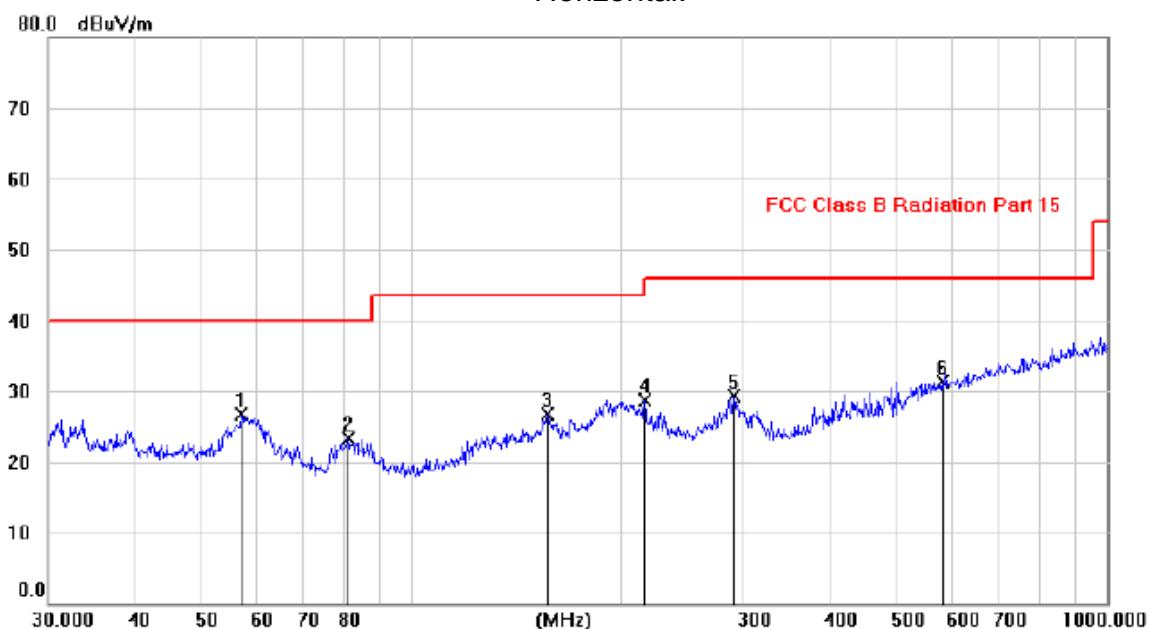
Frequency Range	: 30MHz~1000MHz
Test Mode	: Full load, Half load, Empty load
Test Results	: PASS
Note: 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.	

Frequency Range	: Above 1GHz	
EUT	: /	Test Date : /
M/N	: /	Temperature : /
Test Engineer	: /	Humidity : /
Test Mode	: /	
Test Results	: N/A	
Note: 1. The highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. So the frequency rang above 1GHz radiation test not applicable.		

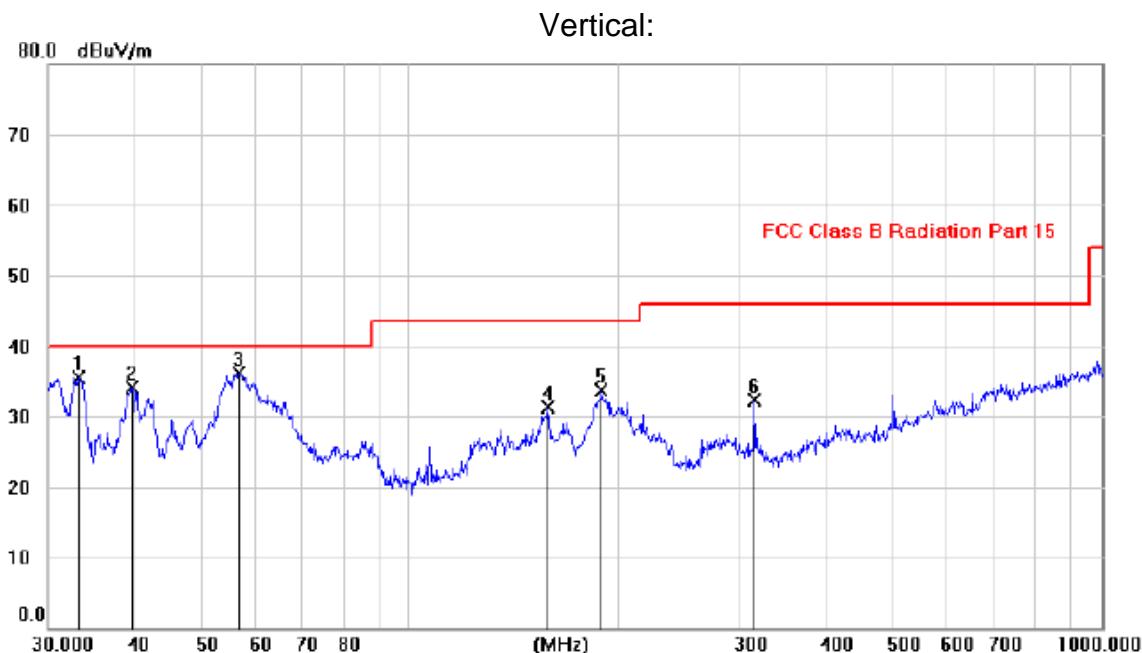
Test result for Channel 125KHz, AC 120V/ 60Hz (Full Load Mode 10W)

30MHz-1GHz

Horizontal:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table		
			Level	Factor	ment					Degree	
			MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	56.8515	12.66	14.09	26.75	40.00	-13.25	peak			
2		80.9842	12.68	10.64	23.32	40.00	-16.68	peak			
3		156.8420	10.75	16.04	26.79	43.50	-16.71	peak			
4		216.6305	16.13	12.59	28.72	46.00	-17.28	peak			
5		290.2205	14.28	14.99	29.27	46.00	-16.73	peak			
6		579.6851	10.15	21.20	31.35	46.00	-14.65	peak			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		33.1529	21.12	14.32	35.44	40.00	-4.56	peak			
2		39.5895	19.07	15.03	34.10	40.00	-5.90	peak			
3	*	56.5730	21.90	14.13	36.03	40.00	-3.97	peak			
4		158.1123	15.19	16.04	31.23	43.50	-12.27	peak			
5		189.1406	20.99	12.62	33.61	43.50	-9.89	peak			
6		314.9279	16.63	15.64	32.27	46.00	-13.73	peak			

Note:

Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

3.3. Occupied bandwidth

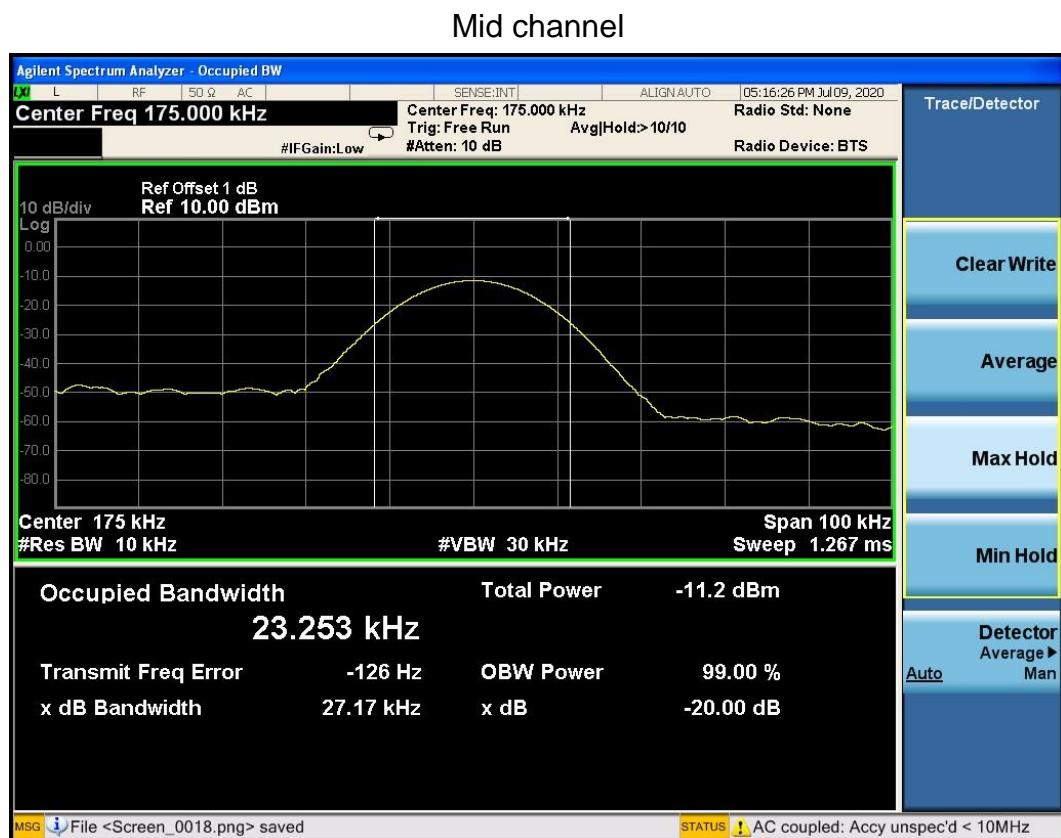
3.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW \geq 1% of the 20 dB bandwidth; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Refer to section 4.1 for details
Test results:	PASS

3.3.2. Test data

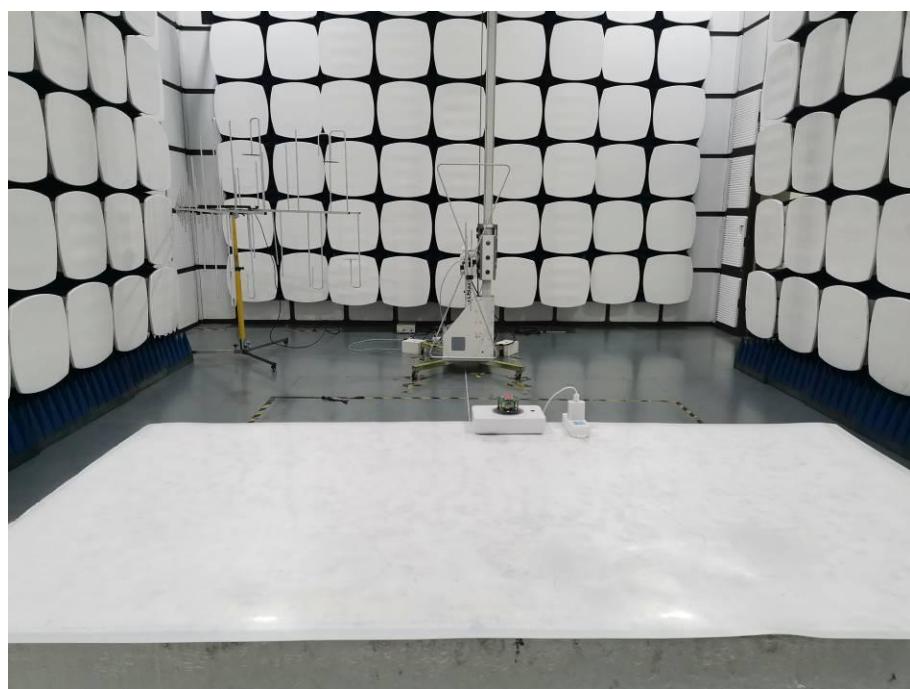
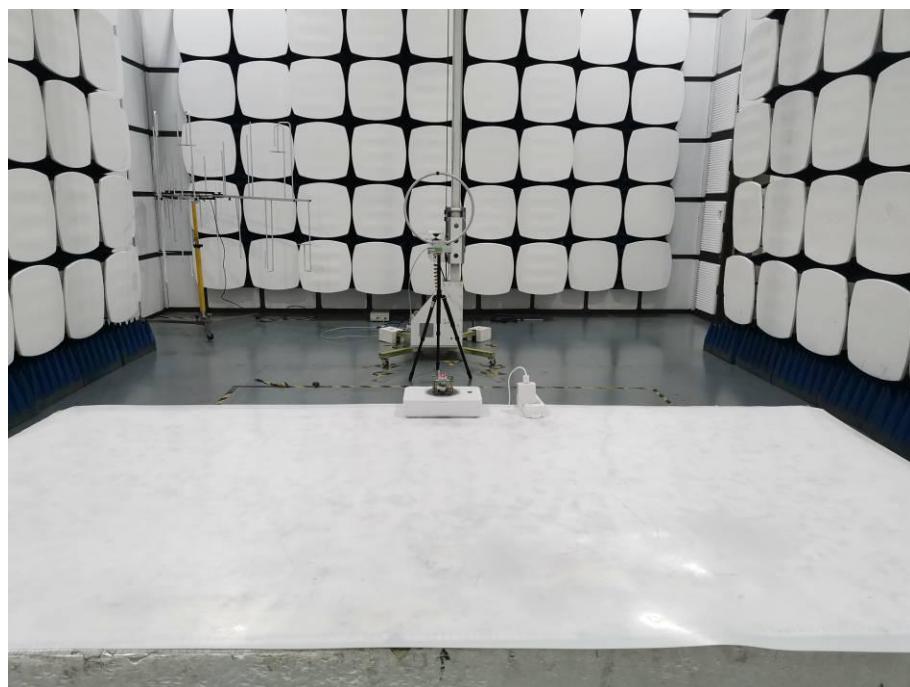
Frequency (kHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
175.0	27.17	---	PASS

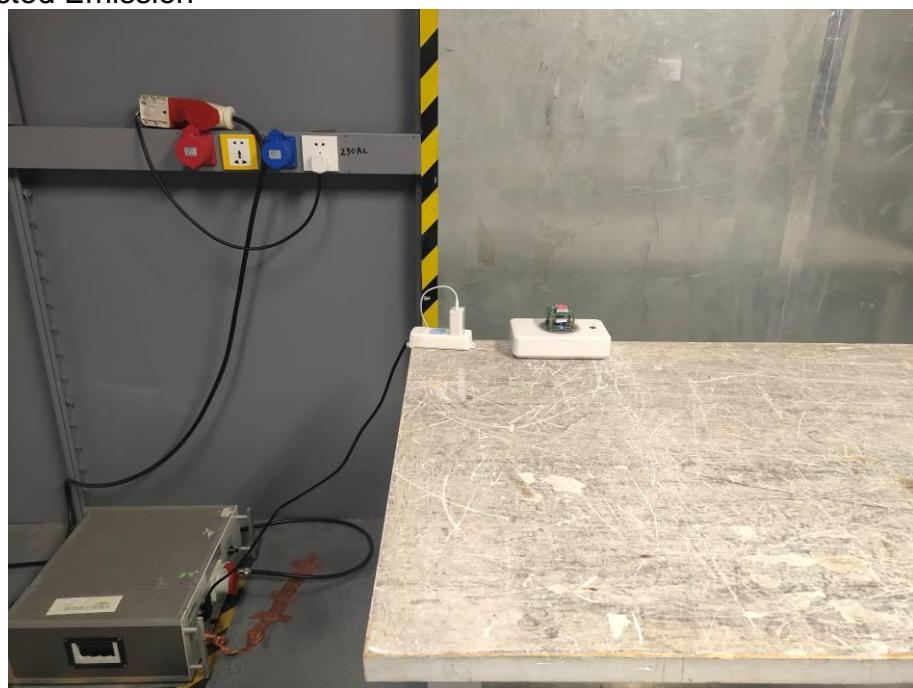
Test plots as follows:



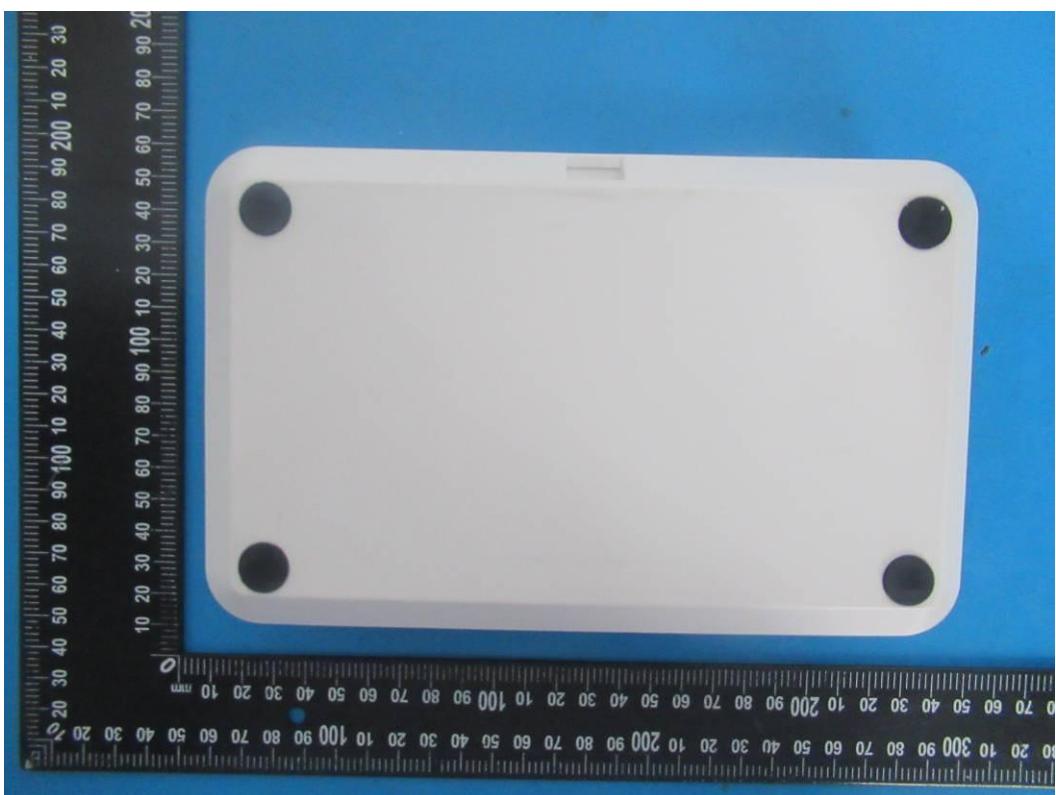
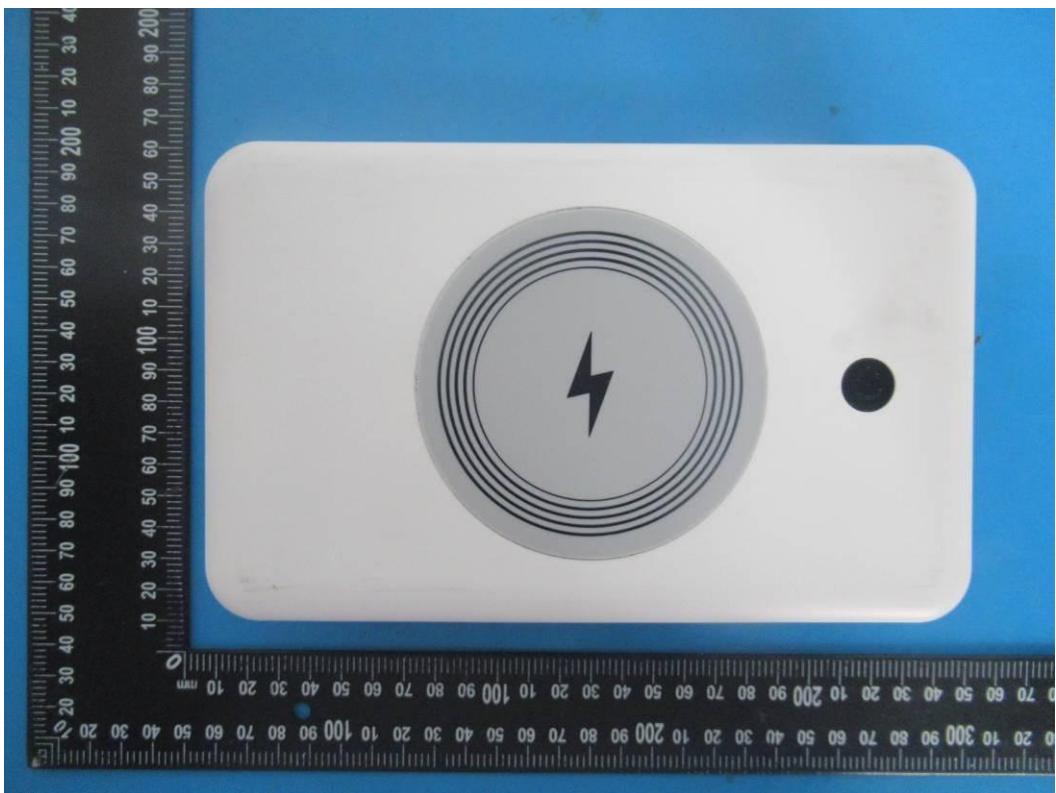
4. Photos of test setup

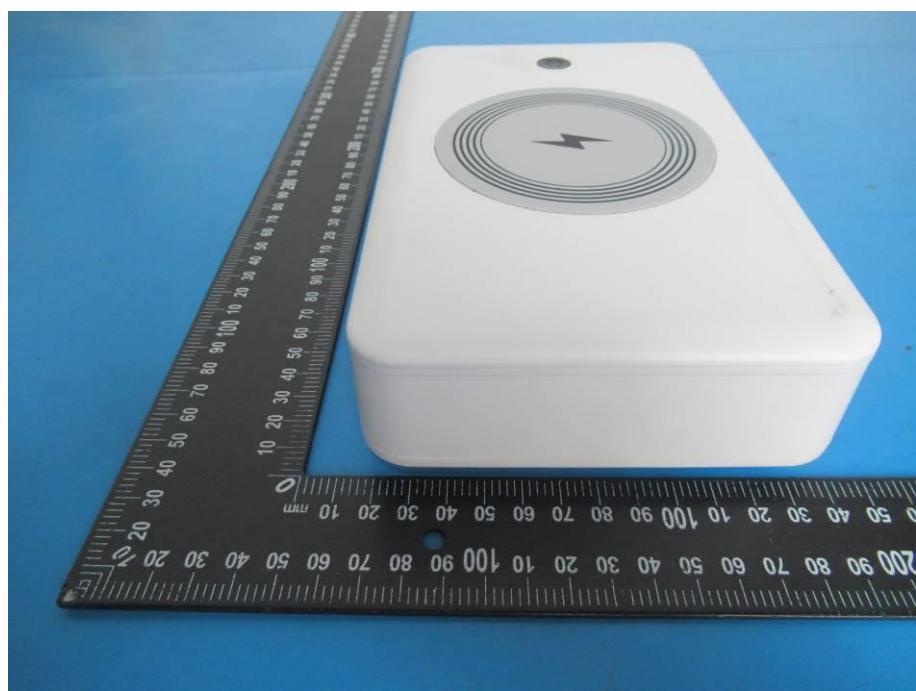
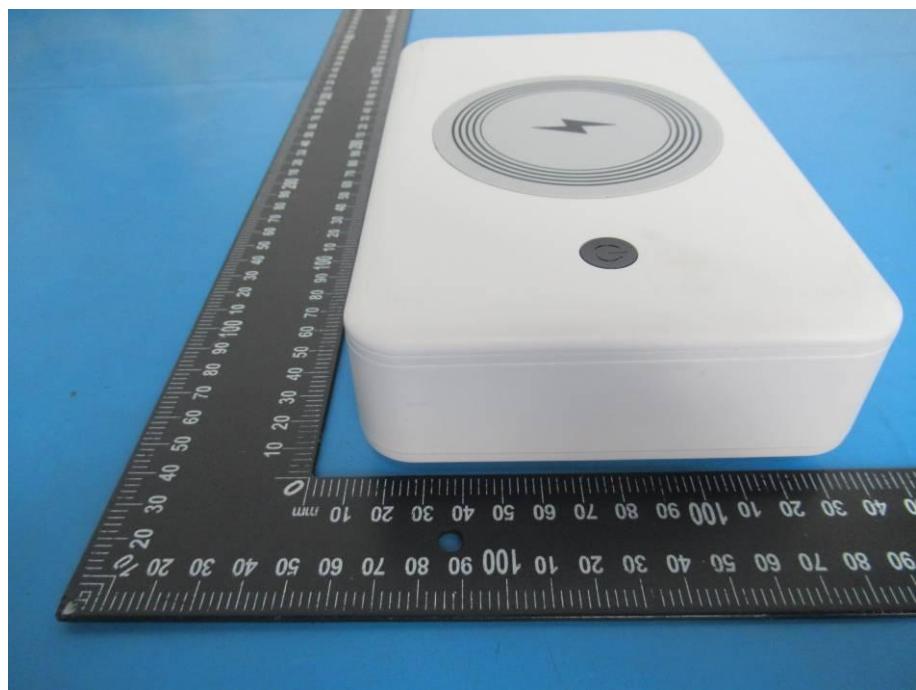
Radiated Emission

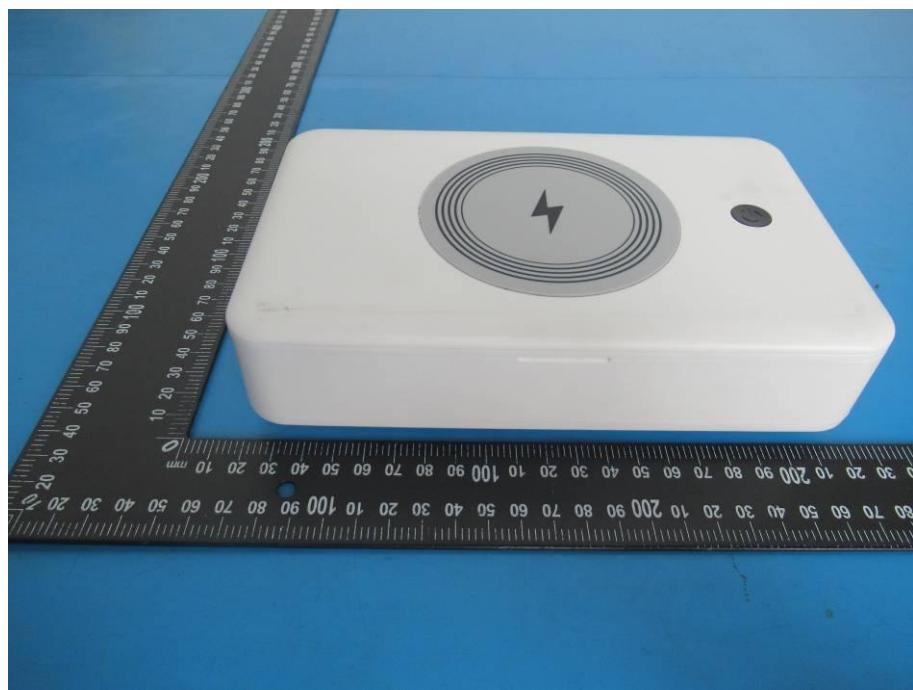


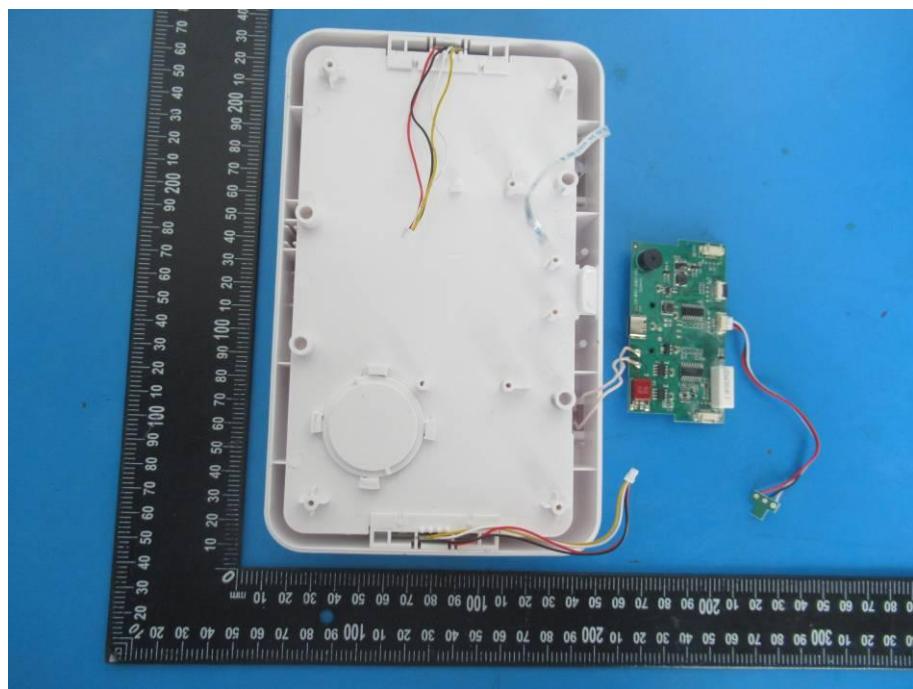
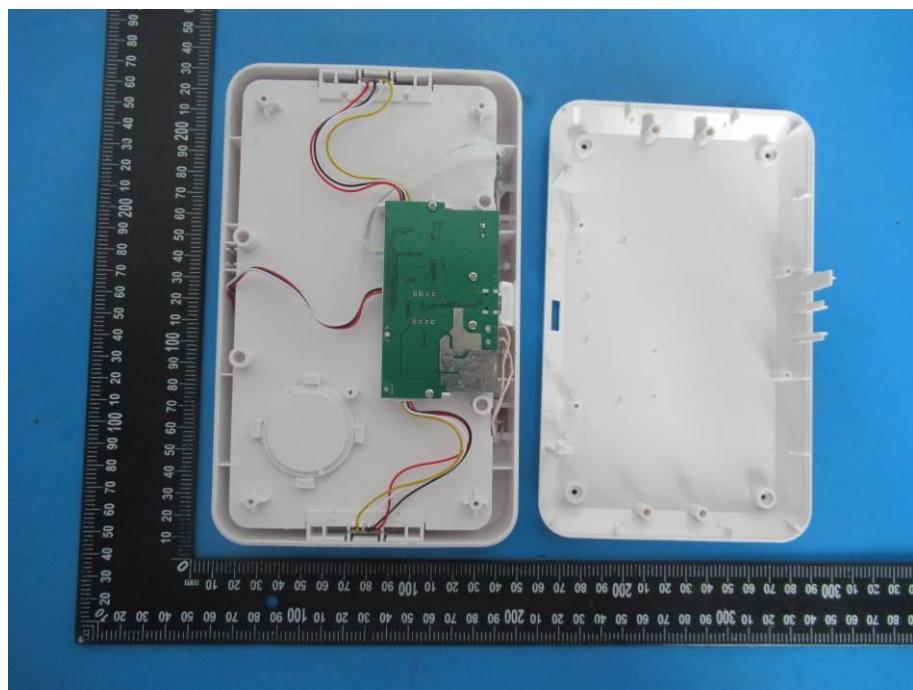
Conducted Emission

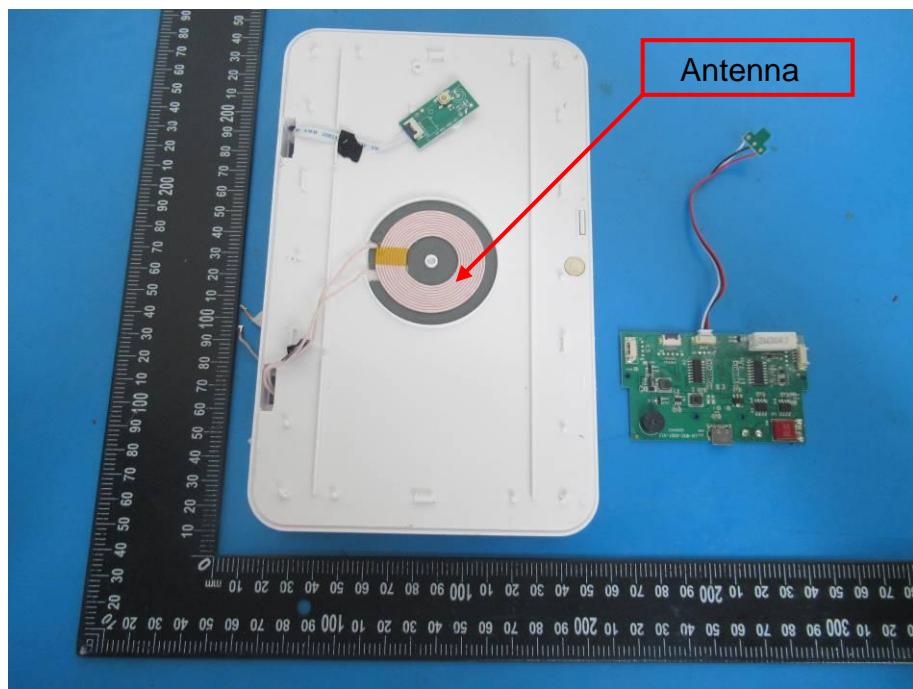
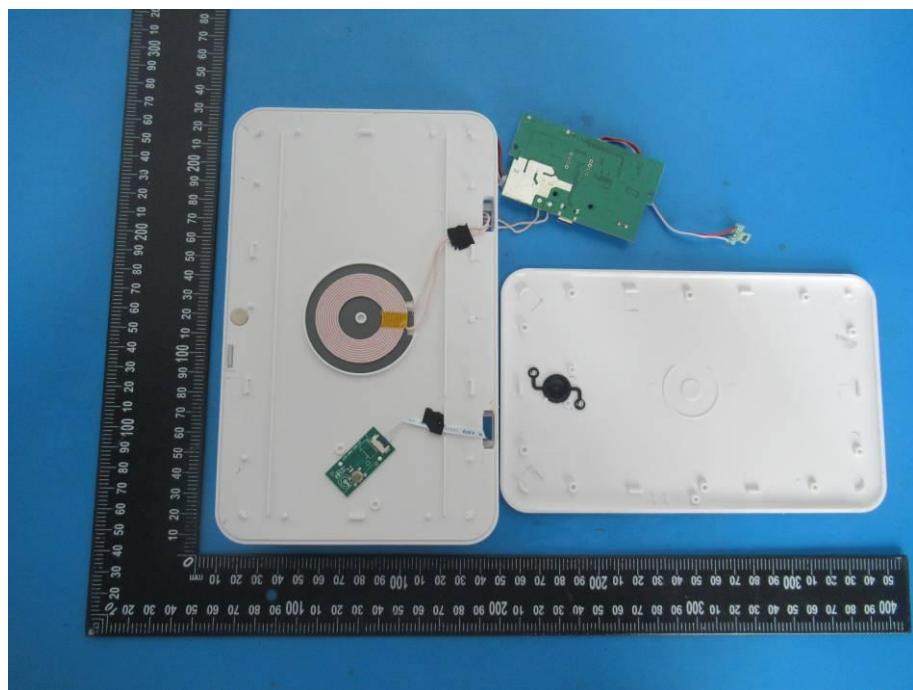
5. Photographs of EUT

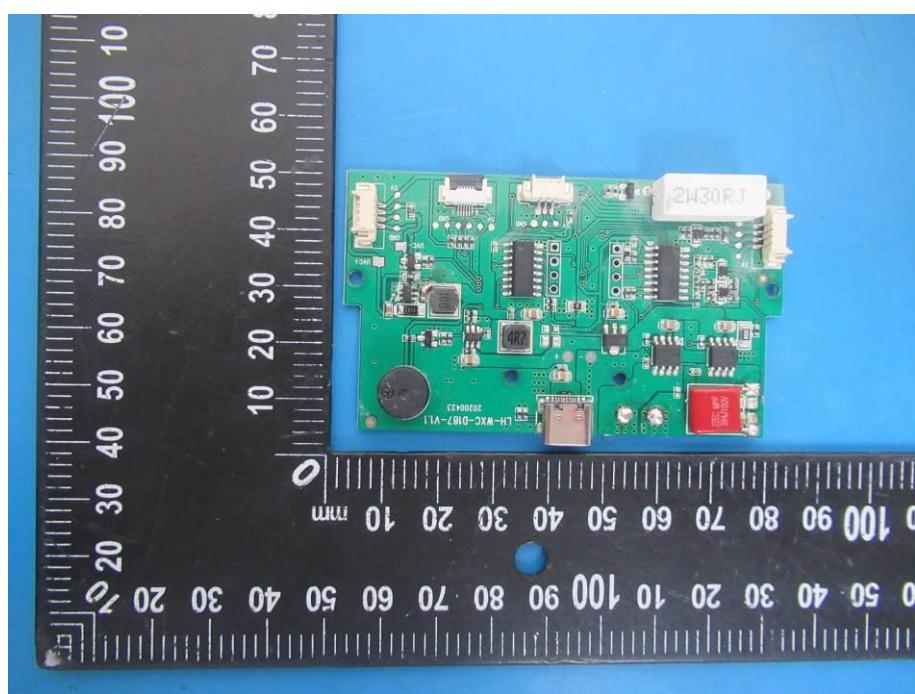
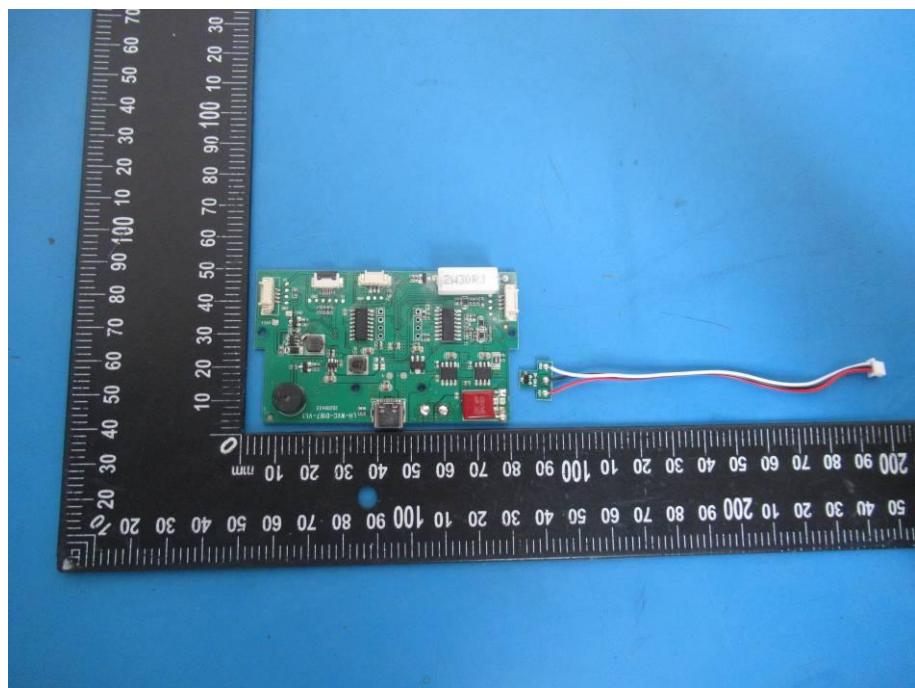


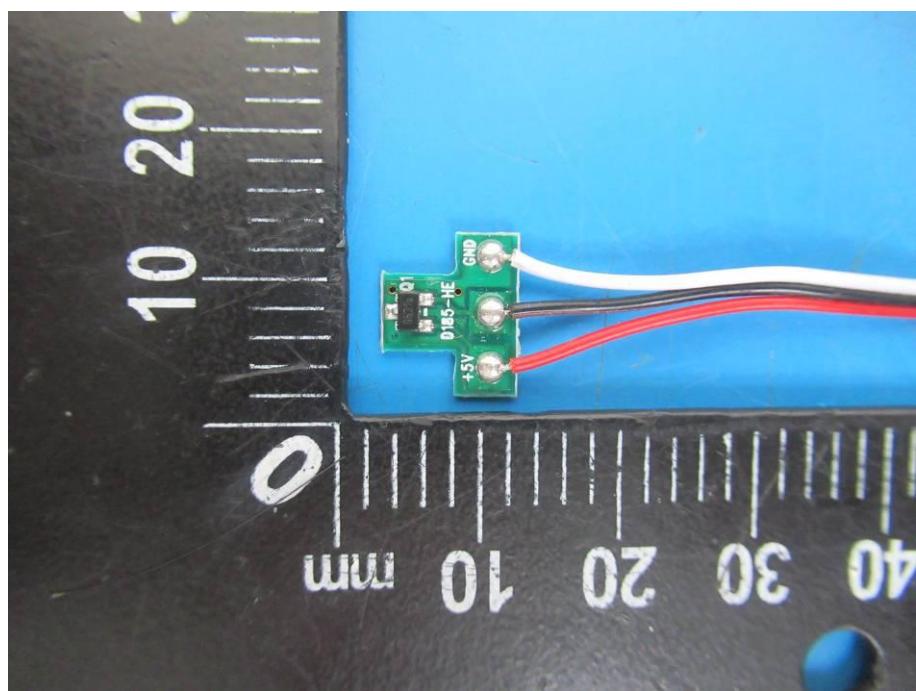
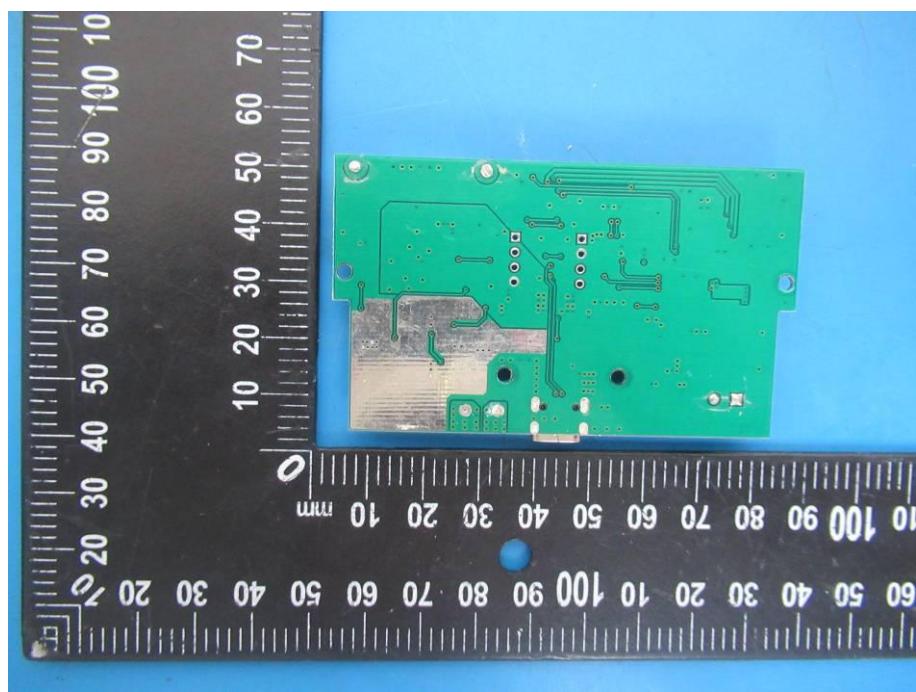


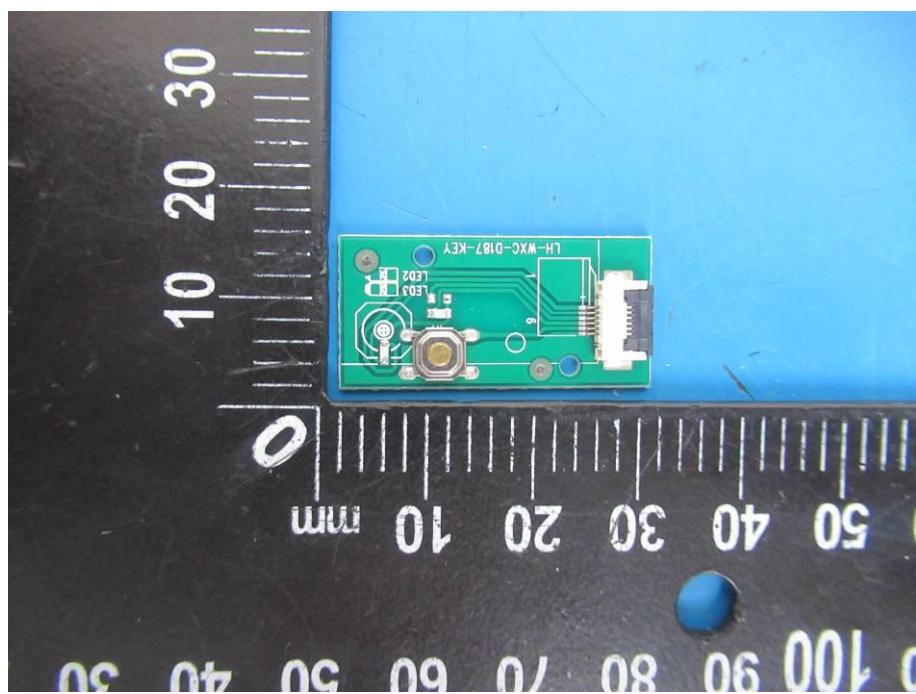
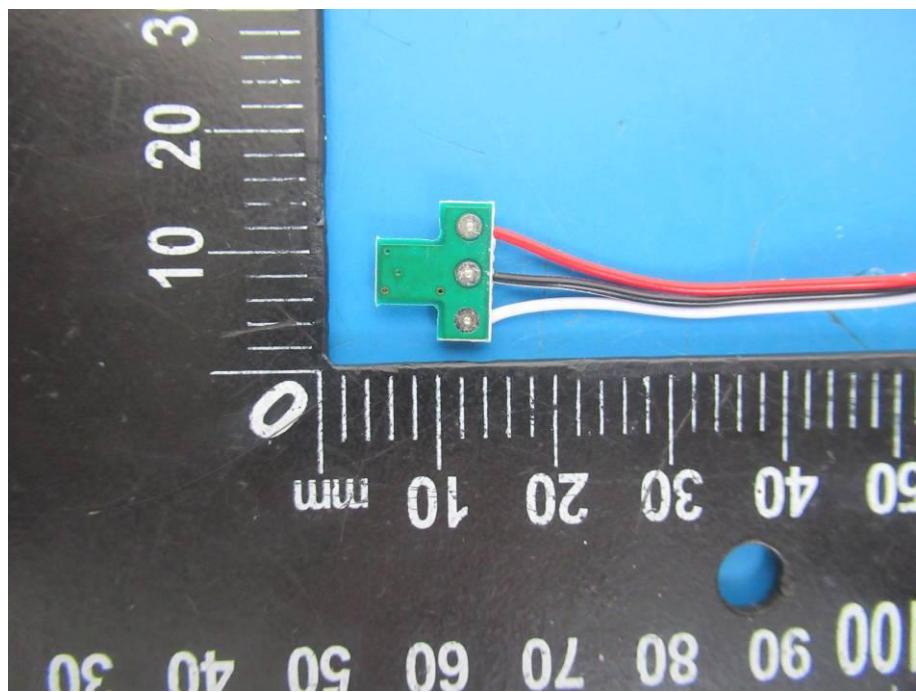


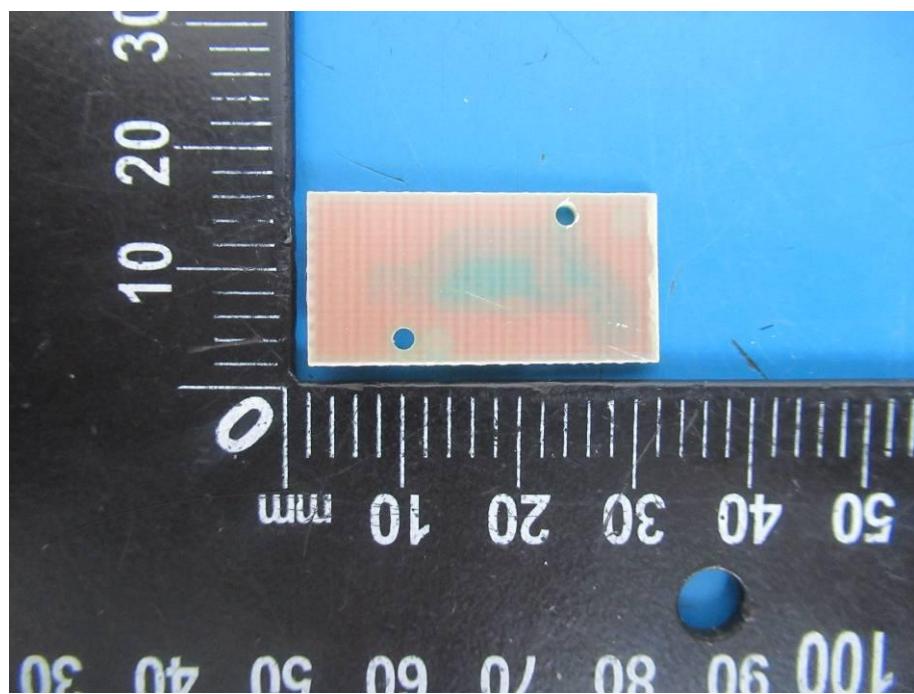












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