

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZE201001805

FCC REPORT (BLE)

Applicant: SHENZHEN PEICHENG TECHNOLOGY CO., LTD

Address of Applicant: 5th floor, B builing, Yingxin factory, Baotian 3rdRd.Xixiang,

Bao'an Distict, Shenzhen China.

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: P50-ROW, P50-EEA

Trade mark: MOXNICE

FCC ID: 2AV6Y-P50

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 10 Oct., 2020

Date of Test: 11 Oct., to 16 Nov., 2020

Date of report issued: 17 Nov., 2020

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	27 Jan., 2021	Original

Tested by:	Test Engineer	Date:	17 Nov., 2020	_
Reviewed by:	Winner Thang	Date:	17 Nov. 2020	

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02





5 General Information

5.1 Client Information

Applicant:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address:	5th floor, B builing, Yingxin factory, Baotian 3rdRd.Xixiang, Bao'an Distict, Shenzhen China.
Manufacturer:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address:	5th floor, B builing, Yingxin factory, Baotian 3rdRd.Xixiang, Bao'an Distict, Shenzhen China.
Factory:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address:	5th floor, B builing, Yingxin factory, Baotian 3rdRd.Xixiang, Bao'an Distict, Shenzhen China.

5.2 General Description of E.U.T.

3.2 General Description	1 01 2:0:1:
Product Name:	Tablet PC
Model No.:	P50-ROW, P50-EEA
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V, 4300mAh
AC adapter:	Model: FX2U-050200U
	Input: AC100-240V, 50/60Hz, 0.4A
	Output: DC 5.0V, 2.0A
Remark:	Model No.: The No.: P50-ROW, P50-EEA were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.



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5.3 Test environment and mode, and test samples plans

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Transmitting mode Keep the EUT in continuous transmitting with modulation				

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

Nο

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf





5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
потп Апцеппа	SCHWARZBECK	ББПА 9170	DDHA9170362	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919b)
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Coostrum analyzar	Dobdo & Cobwerz	ECD40	100363	11-18-2019	11-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

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.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 1.0 dBi.



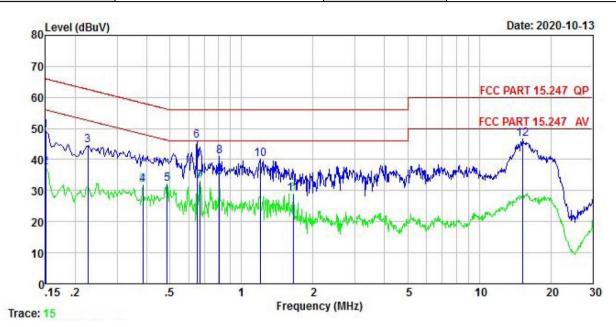
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207	7			
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:		Limit (dRu\/)			
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test procedure:	 The E.U.T and simulators line impedance stabilizati 500hm/50uH coupling im The peripheral devices a LISN that provides a 500 termination. (Please refer photographs). Both sides of A.C. line are interference. In order to fi positions of equipment ar according to ANSI C63.1 	on network (L.I.S.N.), whe pedance for the measuring also connected to the hm/50uH coupling impedent to the block diagram of the checked for maximum and the maximum emission all of the interface cab	nich provides a ing equipment. main power through a dance with 500hm the test setup and conducted on, the relative eles must be changed		
Test setup:	Reference 40cm 40cm Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	80cm Filter Filter Receiver	– AC power		
Test Instruments:	Refer to section 5.9 for details	·			
Test mode:	Refer to section 5.3 for details				
Test mode. Test results:	Passed	•			
rest results.	r asseu				



Measurement Data:

Product name:	Tablet PC	Product model:	P50-ROW
Test by:	YT	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



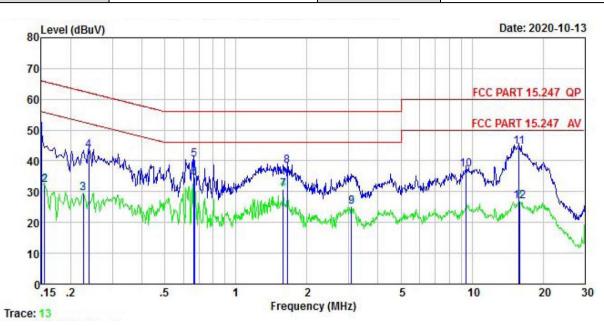
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>ab</u>	<u>ā</u> B	dB	dBu₹	dBu₹	<u>ab</u>	
1	0.150	39.24	-0.57	-0.05	10.78	49.40	66.00	-16.60	QP
2	0.150	27.32	-0.57	-0.05	10.78	37.48	56.00	-18.52	Average
3	0.226	34.60	-0.58	-0.19	10.75	44.58	62.61	-18.03	QP
1 2 3 4 5 6 7 8 9	0.385	21.33	-0.49	0.33	10.72	31.89	48.17	-16.28	Average
5	0.486	22.08	-0.44	-0.26	10.76	32.14	46.23	-14.09	Average
6	0.651	36.06	-0.51	-0.39	10.77	45.93	56.00	-10.07	QP
7	0.668	23.21	-0.52	-0.39	10.77	33.07	46.00	-12.93	Average
8	0.809	30.92	-0.57	-0.05	10.81	41.11	56.00	-14.89	QP
9	0.809	24.14	-0.57	-0.05	10.81	34.33	46.00	-11.67	Average
10	1.197	29.61	-0.59	0.26	10.89	40.17	56.00	-15.83	QP
11	1.654	18.76	-0.54	-0.11	10.94	29.05	46.00	-16.95	Average
12	15.226	32.89	-0.70	3.53	10.90	46.62		-13.38	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Product name:	Tablet PC	Product model:	P50-ROW
Test by:	YT	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



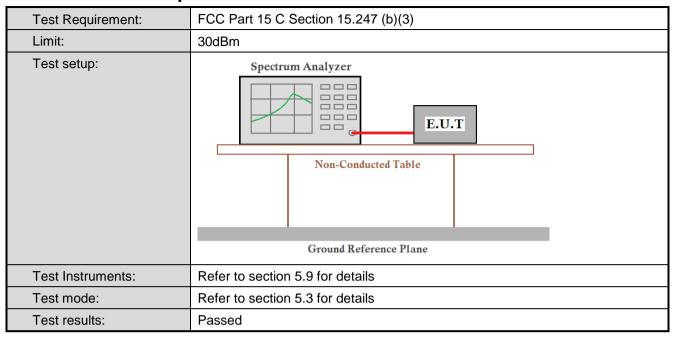
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	₫B	₫B	₫B	dBu₹	₫BuV	−−−−dB	
1	0.150	38.98	-0.69	0.01	10.78	49.08	66.00	-16.92	QP
2	0.155	22.19	-0.69	0.01	10.77	32.28	55.74	-23.46	Average
3	0.226	19.56	-0.67	0.00	10.75	29.64	52.61	-22.97	Average
4	0.238	33.36	-0.67	0.00	10.75	43.44	62.17	-18.73	QP
2 3 4 5 6	0.665	30.17	-0.64	0.04	10.77	40.34	56.00	-15.66	QP
6	0.668	24.39	-0.64	0.04	10.77	34.56	46.00	-11.44	Average
7	1.585	20.46	-0.70	0.14	10.93	30.83	46.00	-15.17	Average
8	1.654	27.88	-0.70	0.15	10.94	38.27	56.00	-17.73	QP
8	3.090	14.40	-0.65	0.33	10.92	25.00	46.00	-21.00	Average
10	9.451	25.86	-0.78	1.31	10.92	37.31	60.00	-22.69	QP
11	15.801	31.98	-0.89	2.62	10.91	44.62	60.00	-15.38	QP
12	15.970	14.25	-0.90	2.54	10.91	26.80	50.00	-23.20	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



6.3 Conducted Output Power

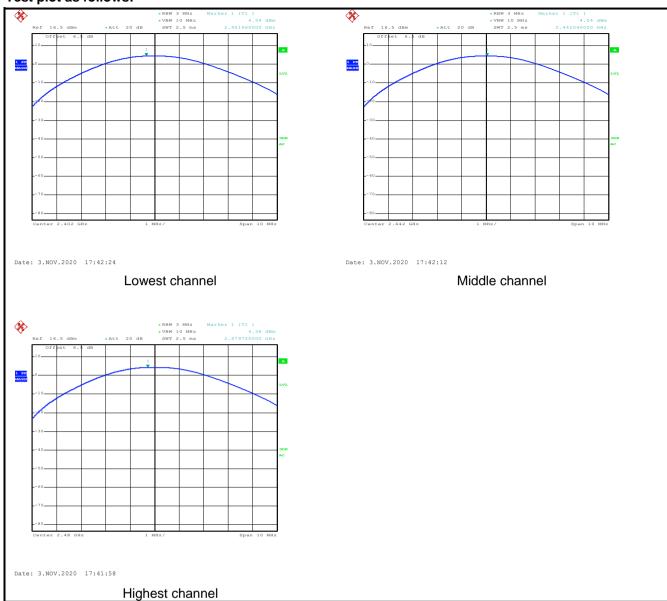


Measurement Data:

			-
Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	4.54		
Middle	4.54	30.00	Pass
Highest	4.38		

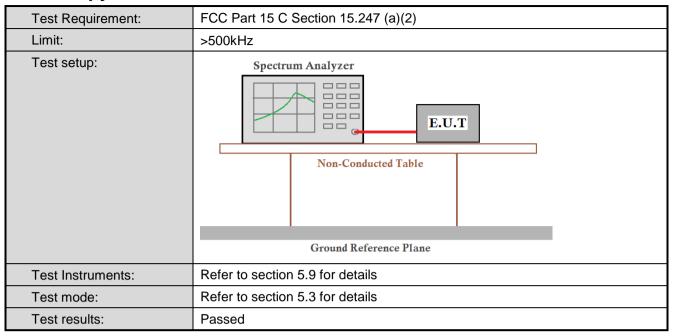


Test plot as follows:





6.4 Occupy Bandwidth

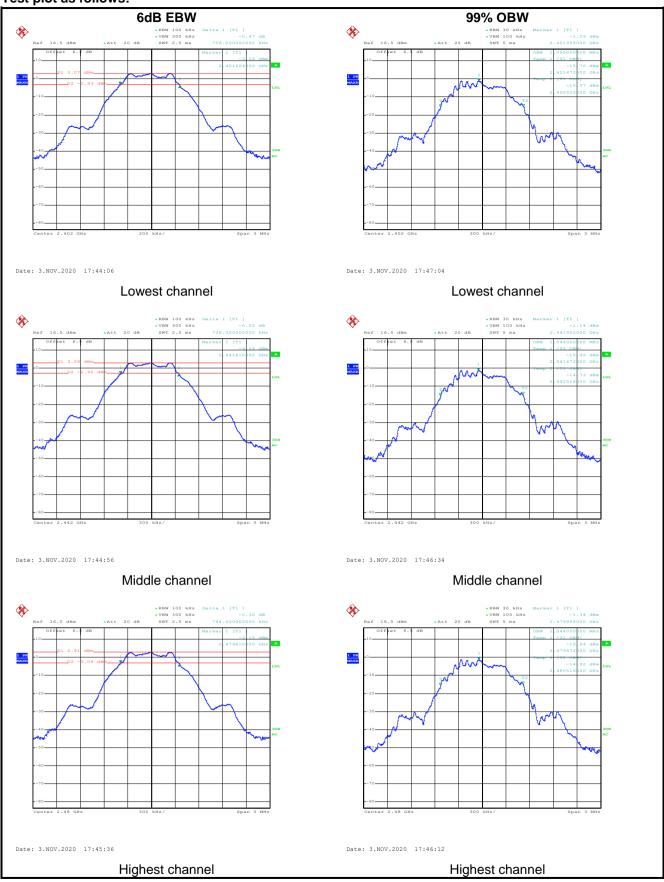


Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.756			
Middle	0.738	>500	Pass	
Highest	0.744			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.050			
Middle	1.044	N/A	N/A	
Highest	1.044			



Test plot as follows:





6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)			
Limit:	8 dBm/3kHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

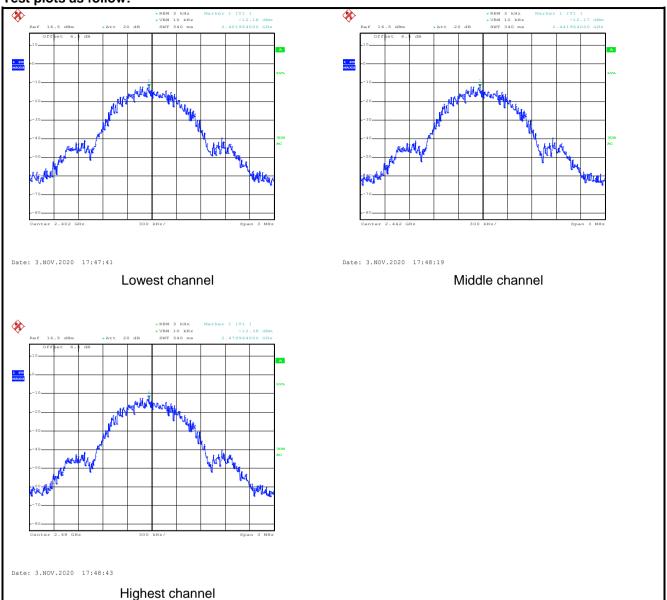
Measurement Data:

Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-12.18		
Middle	-12.17	8.00	Pass
Highest	-12.38		





Test plots as follow:





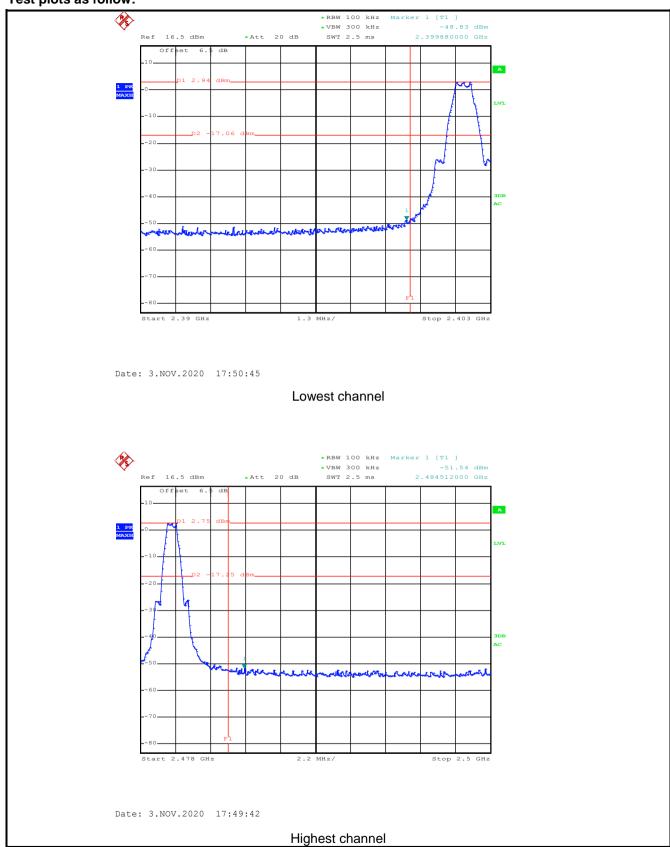
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			



Test plots as follow:



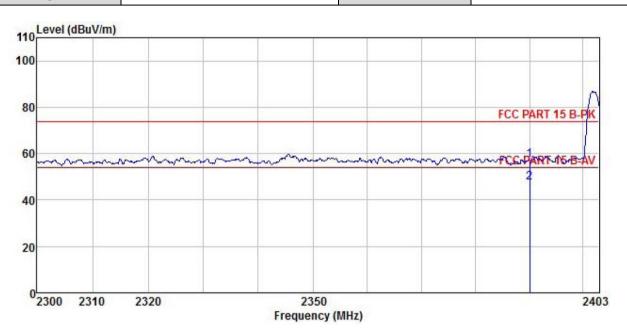


6.6.2 Radiated Emission Method

Test Requirement:		Section 15.20	05 and 15.209		
Test Frequency Range:	2310 MHz to 2	2390 MHz and	2483.5MHz to 2	2500 MHz	
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequer	ncy Liı	mit (dBuV/m @3		Remark
	Above 10	GHz —	54.00		verage Value
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 and the rota 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. If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 				
Test setup:	AE Wassel	Ground Test Receiver	Horn Antenna 3m Reference Plane	Antenna Tower	
Test Instruments:	Refer to section	n 5.9 for detai	ls		
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				



Product Name:	Tablet PC	Product Model:	P50-ROW
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%

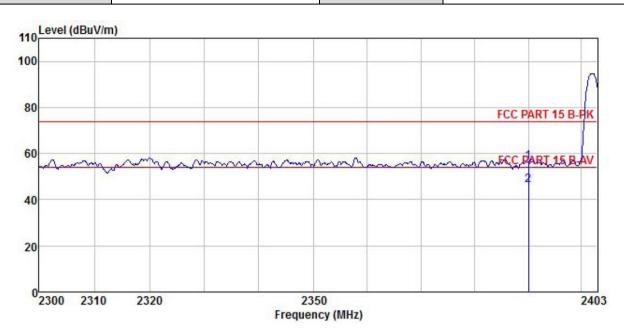


	Freq			Cable Aux Preamp Loss Factor Factor						
	MHz	dBu₹			<u>ab</u>	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1 2	2390,000 2390,000									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Tablet PC	Product Model:	P50-ROW
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

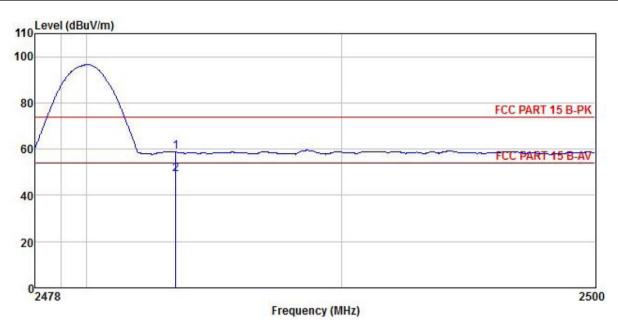


	Read Freq Level		Antenna Factor				Limit Line		
	MHz	—dBu∇	dB/m	 <u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1 2	2390.000 2390.000								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Tablet PC	Product Model:	P50-ROW
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

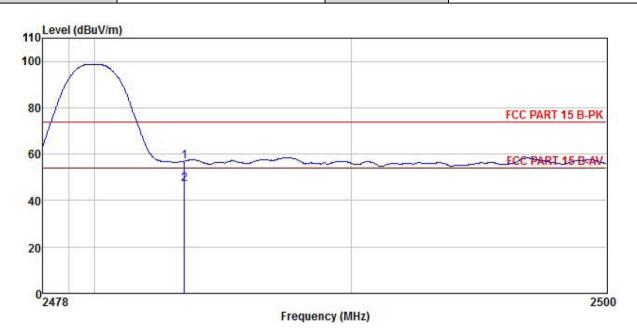


	Freq		Antenna Factor							
	MHz	—dBu∜			<u>q</u> B	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500	25.39 15.75	27.27 27.27	4.38 4.38	1.70 1.70	0.00 0.00	58.74 49.10	74.00 54.00	-15.26 -4.90	Peak Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Tablet PC	Product Model:	P50-ROW
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		
	MHz	dBu₹	dB/m	 <u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



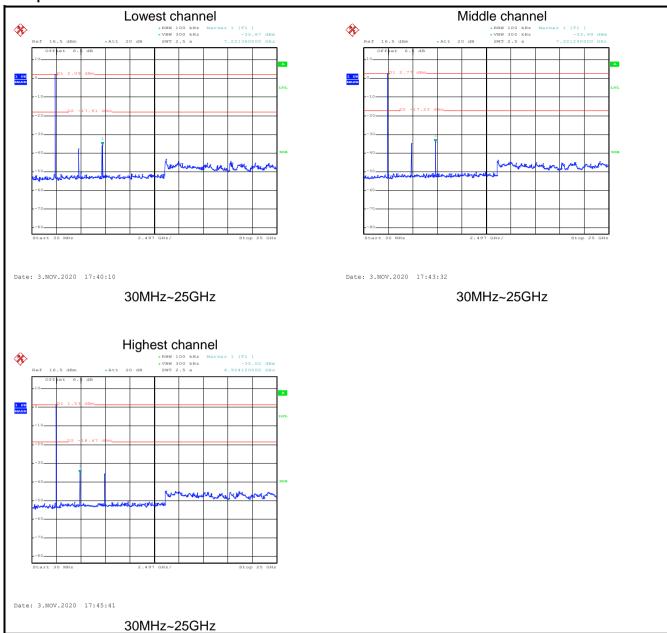
6.7 Spurious Emission

6.7.1 Conducted Emission Method

	Solon Method						
Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						



Test plot as follows:

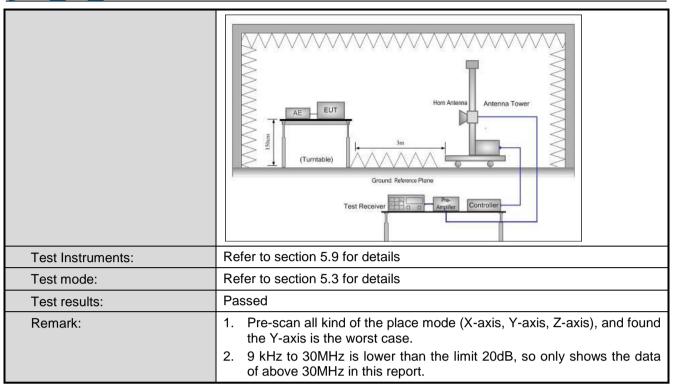




6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20	5 and 15.209			
Test Frequency Range:	9kHz to 25GHz					
Test Distance:	3m					
Receiver setup:	Frequency	Detector	RBW	VBW		Remark
	30MHz-1GHz	Quasi-peak	120KHz	3001	KHz	Quasi-peak Value
	Above 1CHz	Peak	1MHz	3M	Hz	Peak Value
	Above 1GHz	RMS	1MHz	3M	Hz	Average Value
Limit:	Frequency	y L	mit (dBuV/m @	3m)		Remark
	30MHz-88M	Hz	40.0		C	Quasi-peak Value
	88MHz-216N	ИHz	43.5		C	Quasi-peak Value
	216MHz-960I	MHz	46.0			Quasi-peak Value
	960MHz-1G	Hz	54.0		C	Quasi-peak Value
	Above 1GH	17	54.0			Average Value
			74.0		L	Peak Value table 0.8m(below
	highest rad 2. The EUT antenna, we tower. 3. The antenna Both horized make the name of the end of the end of the emister and	liation. was set 3 n which was mo na height is was to determinate and very neasurement suspected en when the ante then the ante deceiver syste Bandwidth wit sion level of the would be re margin wou	neters away unted on the paried from one the maximitical polarization, the Enna was tuned ding. It was turned ding. It was set the Maximum Hole EUT in periesting could liported. Other lid be re-tested	from the top of a ne met um valutions of EUT was do not be from 0 to Pealold Morak more stop wise the done be	ne intervariant of the areas arranged areas areas degree de areas ped areas ped areas ped areas areas ped	the position of the efference-receiving ble-height antenna four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 ees to 360 degrees tect Function and is 10 dB lower than and the peak values ssions that did not using peak, quasi-reported in a data
Test setup:	EUT	4m 4m 0.8m lm			Search Antenn Test ceiver —	1



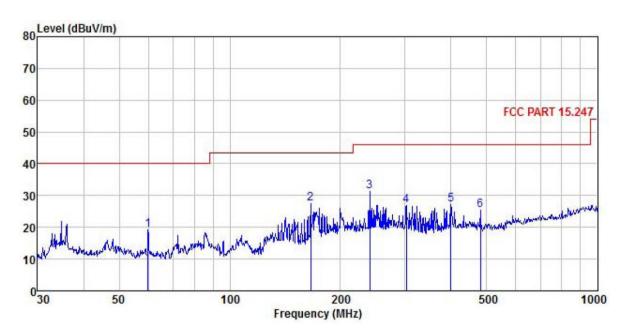




Measurement Data (worst case):

Below 1GHz:

Product Name:	Tablet PC	Product Model:	P50-ROW
Test By:	YT	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



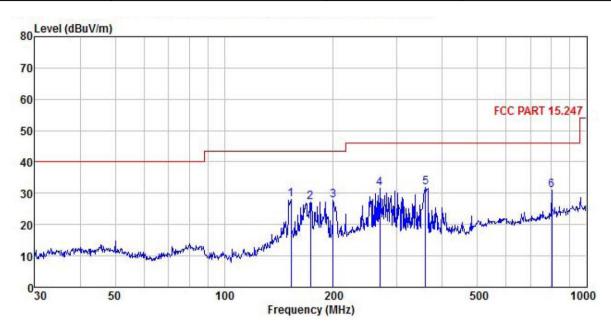
	Freq		Antenna Factor					Limit Line	Over Limit	Remark
	MHz	—dBu∇	— <u>dB</u> /m			<u>d</u> B	dBuV/m	dBuV/m		
1	59.859	37.70	10.82	0.42	0.00	29.77	19.17	40.00	-20.83	QP
2	166.068	40.06	15.80	0.65	0.00	29.08	27.43	43.50	-16.07	QP
2	239.987	40.80	18.46	0.76	0.00	28.59		46.00		
4	302.481	35.79	18.70	0.86	0.00	28.45	26.90	46.00	-19.10	QP
4 5	399.030	35.84	19.09	0.99	0.00	28.77	27.15	46.00	-18.85	QP
6	480.528	33.95	19.33	1.08					-20.56	

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	Tablet PC	Product Model:	P50-ROW
Test By:	YT	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	
_	MHz	dBu∇	<u>dB</u> /m		<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	152.664	42.36	14.36	0.62	0.00	29.20	28.14	43.50	-15.36	QP
2	173.205	38.84	16.69	0.66	0.00	29.02	27.17	43.50	-16.33	QP
2	199.986	37.51	18.30	0.72	0.00	28.83	27.70	43.50	-15.80	QP
4	268.485	40.56	18.58	0.82	0.00	28.51	31.45	46.00	-14.55	QP
5	359.186	40.75	18.86	0.94	0.00	28.60	31.95	46.00	-14.05	QP
6	801.786	36.75	20.93	1.40	0.00	28.19			-15.11	

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.





Above 1GHz

Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	50.89	30.78	6.80	2.44	41.81	49.10	74.00	-24.90	Vertical
4804.00	57.56	30.78	6.80	2.44	41.81	55.77	74.00	-18.23	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	40.26	30.78	6.80	2.44	41.81	38.47	54.00	-15.53	Vertical
4804.00	47.26	30.78	6.80	2.44	41.81	45.47	54.00	-8.53	Horizontal

Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	50.16	30.96	6.86	2.47	41.84	48.61	74.00	-25.39	Vertical
4884.00	57.83	30.96	6.86	2.47	41.84	56.28	74.00	-17.72	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	40.76	30.96	6.86	2.47	41.84	39.21	54.00	-14.79	Vertical
4884.00	47.15	30.96	6.86	2.47	41.84	45.60	54.00	-8.40	Horizontal

Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	50.89	31.11	6.91	2.49	41.87	49.53	74.00	-24.47	Vertical
4960.00	57.23	31.11	6.91	2.49	41.87	55.87	74.00	-18.13	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	40.19	31.11	6.91	2.49	41.87	38.83	54.00	-15.17	Vertical
4960.00	47.53	31.11	6.91	2.49	41.87	46.17	54.00	-7.83	Horizontal

Remark:

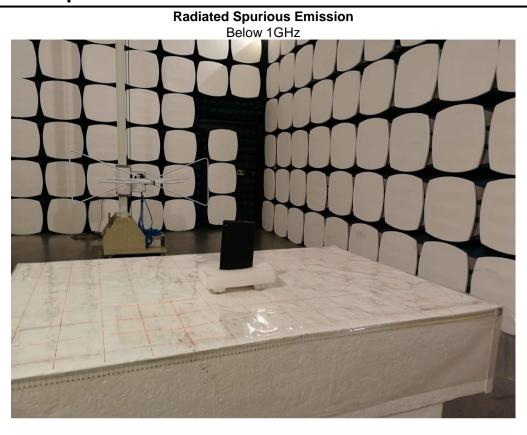
^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



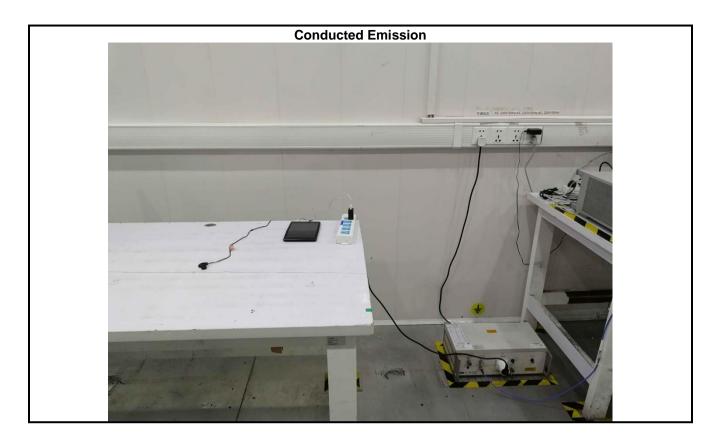


7 Test Setup Photo









8 EUT Constructional Details

Reference to the test report No.: JYTSZE20100180501.

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