

🧲 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE180302701

FCC REPORT

Applicant: Telecell Mobile (H.K) Ltd

Address of Applicant: RM 1, 8/F Metro Centre 2, 21 Lam Hing Street. Kln Bay. Hong

Kong

Equipment Under Test (EUT)

Product Name: Wi-Fi device

Model No.: T50R

FCC ID: 2ADX3T50R

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

Date of sample receipt: 09 Mar., 2018

Date of Test: 09 Mar., to 03 Apr., 2018

Date of report issued: 03 Apr., 2018

Test Result: PASS *

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

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 CCIS 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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2 Version

Version No.	Date	Description
00	03 Apr., 2018	Original

Test Engineer

Reviewed by: Date: 03 Apr., 2018

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (c)	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
Pass: The FLIT complies with the essential	requirements in the standard	

Pass: The EUT complies with the essential requirements in the standard.

N/A: Not Applicable.



5 General Information

5.1 Client Information

Applicant:	Telecell Mobile (H.K) Ltd.
Address:	RM 1, 8/F Metro Centre 2, 21 Lam Hing Street. Kln Bay. Hong Kong
Manufacturer/ Factory:	Telecell Mobile (H.K) Ltd.
Address:	RM 1, 8/F Metro Centre 2, 21 Lam Hing Street. Kln Bay. Hong Kong

5.2 General Description of E.U.T.

Product Name:	Wi-Fi device
Model No.:	T50R
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 polymer Battery DC3.8V, 4100mAh
AC adapter:	Model No.: N8C Input: AC100-240V 50/60Hz 0.3A Output: DC 5.0V, 2.0A

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.



5.3 Test environment and test mode

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	

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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)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.6 Laboratory Facility

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

• FCC - Registration No.: 727551

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

IC - Registration No.: 10106A-1

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

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

• 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

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5.8 Test Instruments list

Radiated Emission:	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	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	02-25-2018	02-24-2019	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2018	02-24-2019	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2018	02-24-2019	
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A	
Pre-amplifier	HP	8447D	2944A09358	02-25-2018	02-24-2019	
Pre-amplifier	CD	PAP-1G18	11804	02-25-2018	02-24-2019	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2018	02-24-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2018	02-24-2019	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	02-25-2018	02-24-2019	
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2018	02-24-2019	
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2018	02-24-2019	

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	02-25-2018	02-24-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	02-25-2018	02-24-2019
LISN	CHASE	MN2050D	1447	02-25-2018	02-24-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
Cable	HP	10503A	N/A	02-25-2018	02-24-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:

FCC Part 15 C Section 15.203 /247(c)

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(c) (1)(i) requirement:

(i) 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 exceeds 6dBi.

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.





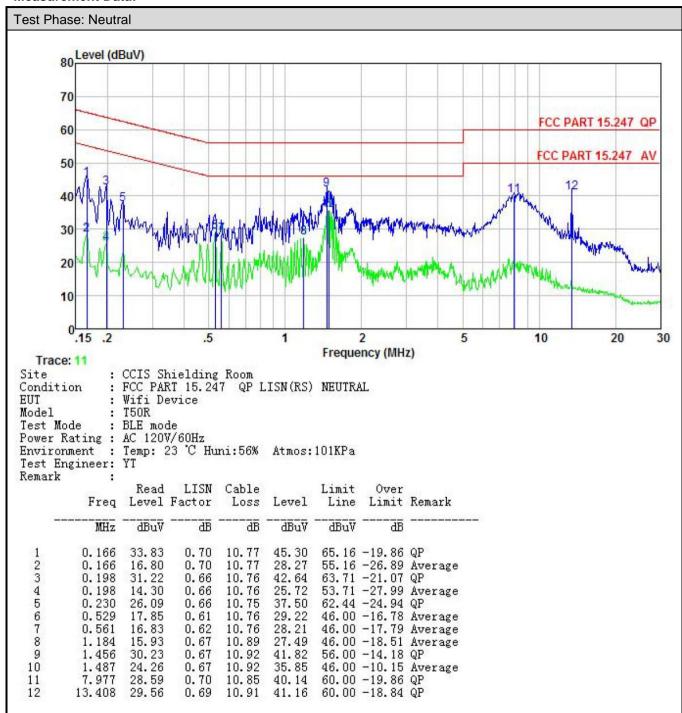


6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15	.207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	·	Limit	(dBuV)
	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 logar		
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. 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). 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 C63.4: 2014 on conducted measurement. 		
Test setup:	Reference Plane		
	AUX Equipment Test table/Insulation pla Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m		AC power
Test Instruments:	Refer to section 5.8 for det	raile	
Test mode:	Refer to section 5.3 for det		
Test results:	Passed	uns	
root rooulto.	1 45564		



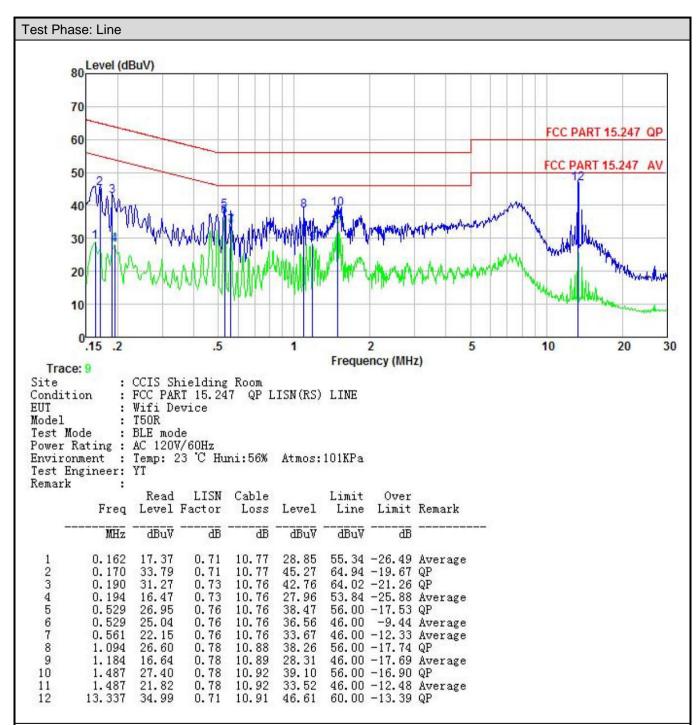
Measurement Data:



Notes:

- 1. An initial pre-scan was performed on the live 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 + Cable Loss.





Notes:

- 1. An initial pre-scan was performed on the live 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 + Cable Loss.



6.3 Conducted Output Power

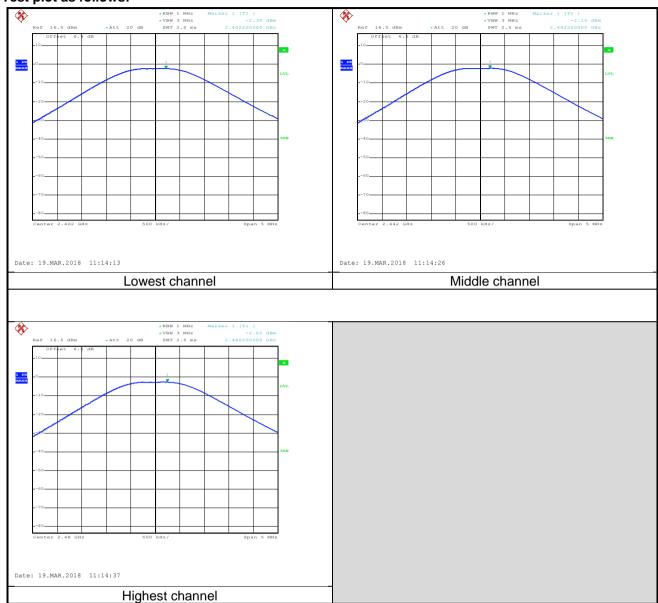
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10:2013 and KDB 558074	
Limit:	30dBm	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.8 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-2.30		
Middle	-2.10	30.00	Pass
Highest	-2.62		



Test plot as follows:





6.4 Occupy Bandwidth

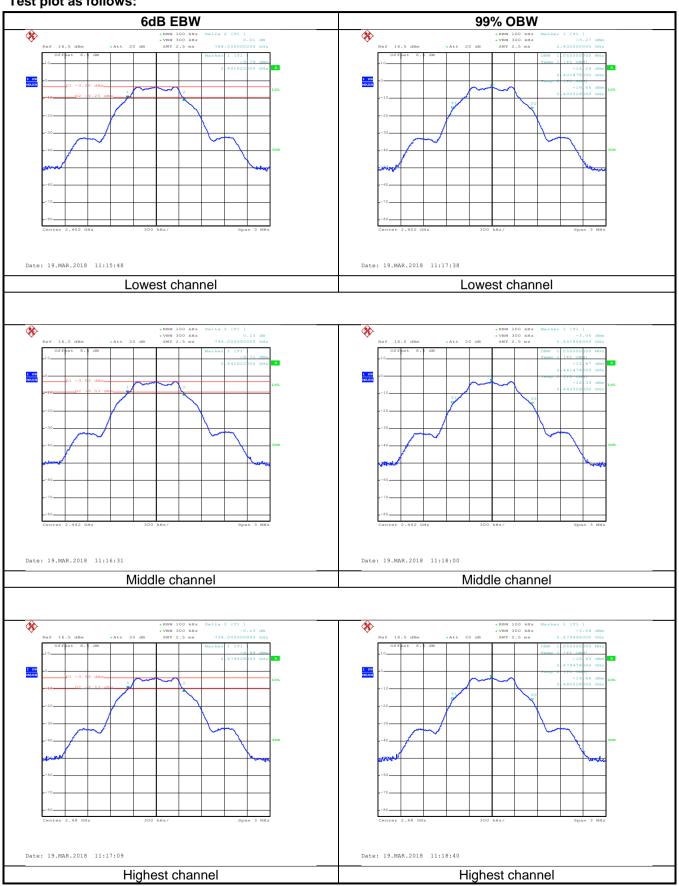
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.10:2013 and KDB 558074				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

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



Test plot as follows:





6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)				
Test Method:	ANSI C63.10:2013 and KDB 558074				
Limit:	8 dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

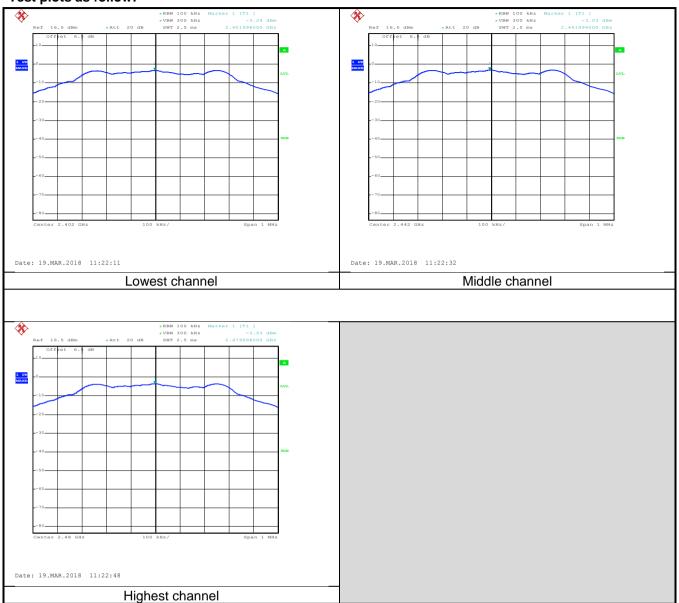
Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	-3.24		
Middle	-3.03	8.00	Pass
Highest	-3.53		





Test plots as follow:





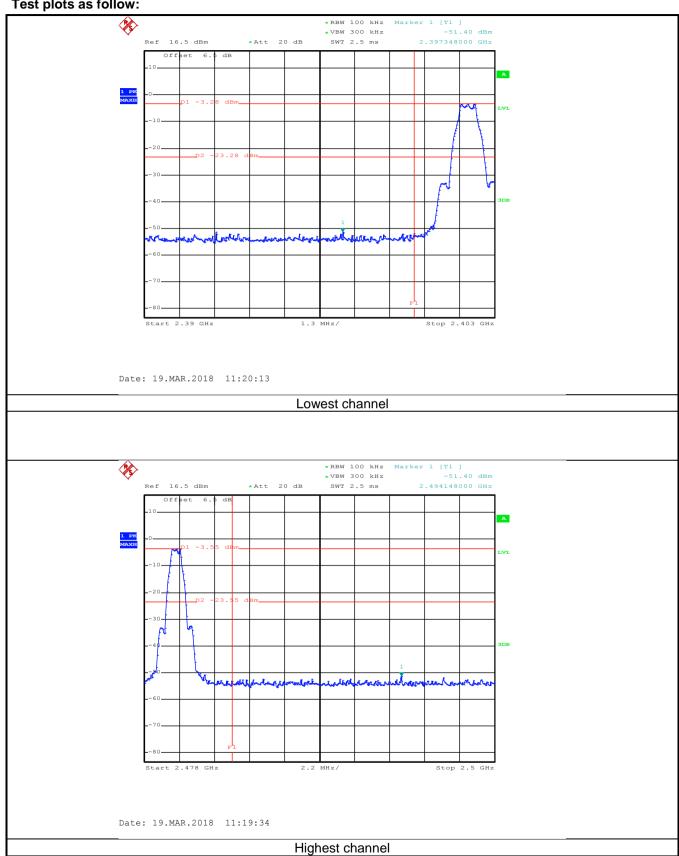
6.6 Band Edge

6.6.1 Conducted Emission Method

01011 00110101011 =1111001011						
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB 558074					
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					
	Non-Conducted Table					
	Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					



Test plots as follow:



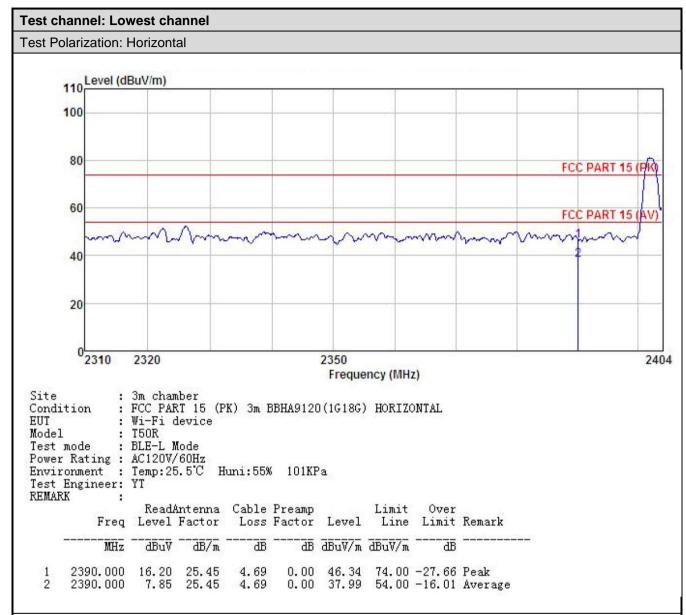




6.6.2 Radiated Emission Method

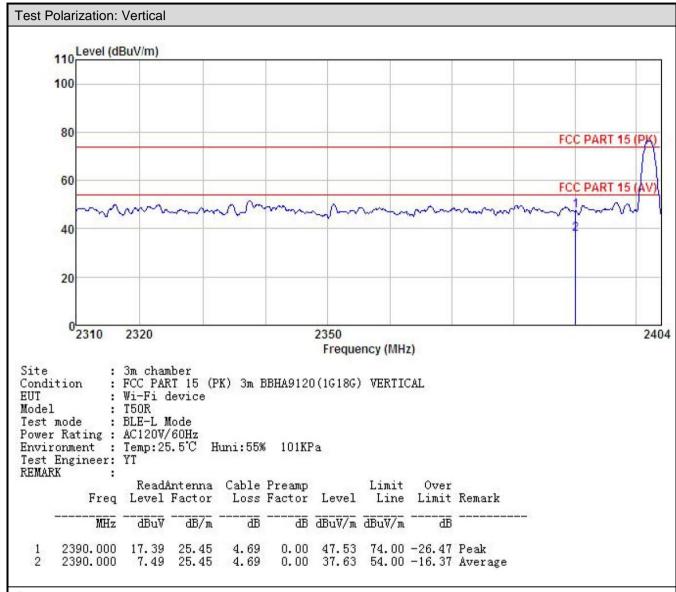
6.6.2	5.2 Radiated Emission Method							
-	Test Requirement:	FCC Part 15 C Section 15.205 and 15.209						
-	Test Method:	ANSI C63.10: 2013 and KDB 558074						
-	Test Frequency Range:	2.3GHz to 2.5GHz						
-	Test Distance:	3m						
	Receiver setup:	Frequency	Detecto			·		Remark
		Above 1GHz	Peak RMS		1MHz 1MHz		MHz MHz	Peak Value Average Value
	Limit:	Frequen		Lin	nit (dBuV/m @3		IVII IZ	Remark
		Above 10			54.00	Average Value		
_				1	74.00	- 11		Peak 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 						ted 360 degrees ce-receiving e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0 dB lower than d the peak values ons that did not sing peak, quasi-
	Test setup:	AE (T	umtable)	Ground I	Horn Antenna Reference Plane Pre- Amptifer Contr	Antenna 1	Fower S	
-	Test Instruments:	Refer to section	n 5.8 for d	etails	S			
	Test mode:	Refer to section 5.3 for details						
-	Test results:	Passed						





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

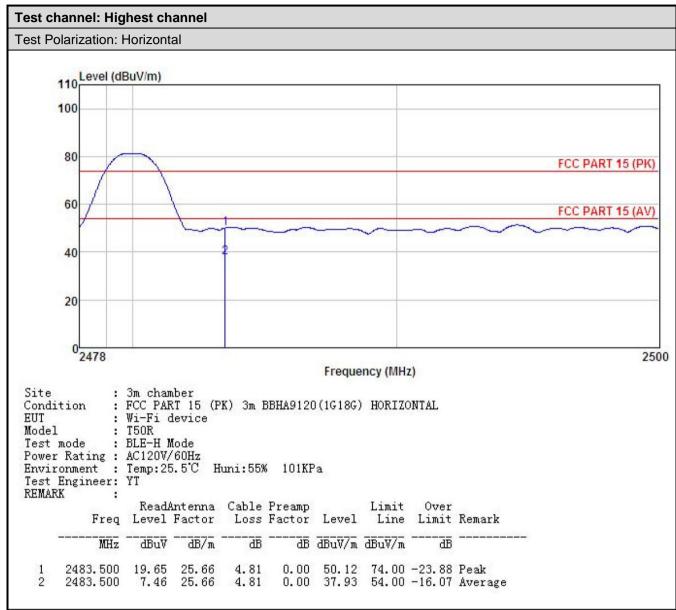




1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

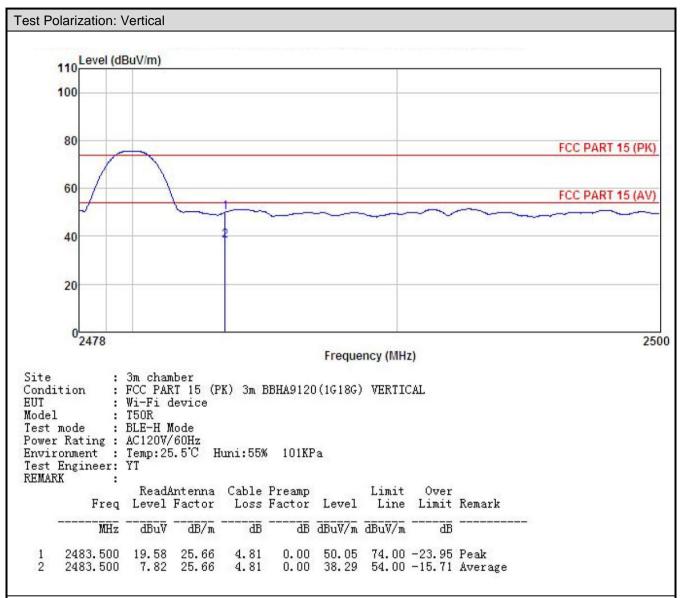




1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.





1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.



6.7 Spurious Emission

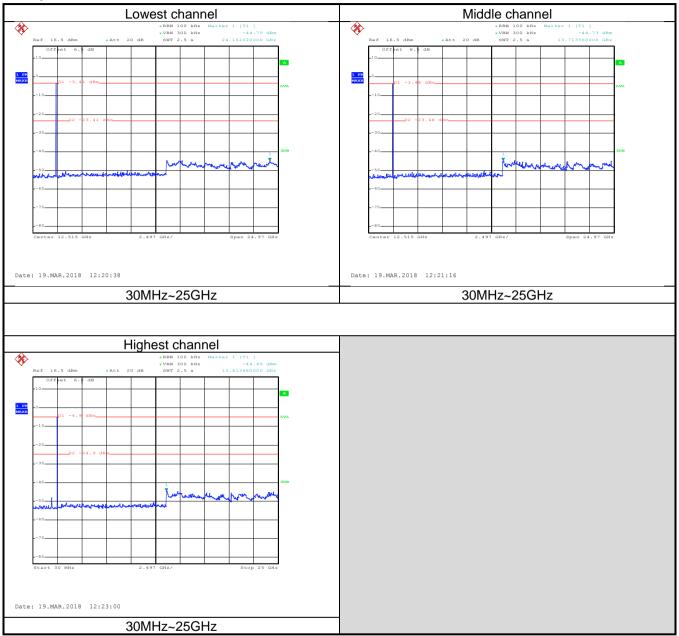
6.7.1 Conducted Emission Method

0.7.1 Conducted Linission	- 111011104					
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB 558074					
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:						
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					





Test plot as follows:

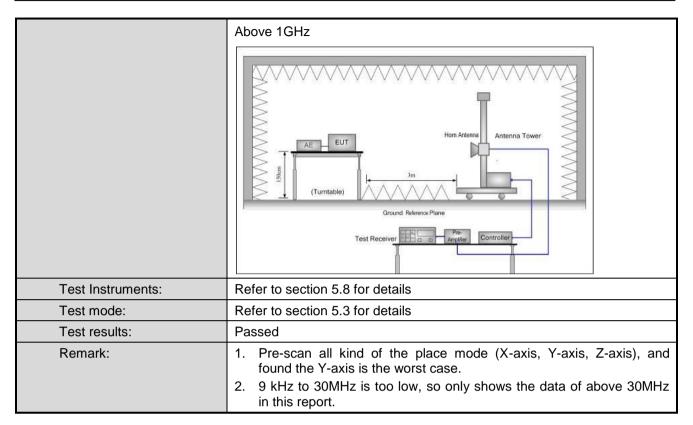




6.7.2 Radiated Emission Method

6.7.2 Radiated Emission N	<u>/lethod</u>						
Test Requirement:	FCC Part 15 C Section 15.205 and 15.209						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency Detector RBW			VE	3W	Remark	
·	30MHz-1GHz	Quasi-pea	k 120KHz	300	KHz	Quasi-peak Value	
	Above 1GHz	Peak			lHz	Peak Value	
		RMS	1MHz		lHz T	Average Value	
Limit:	Limit: Frequency Limit (d					Remark	
	30MHz-88M		40.0 43.5		Quasi-peak Value		
	88MHz-216M 216MHz-960N		46.0			Quasi-peak Value Quasi-peak Value	
	960MHz-1G		54.0			Quasi-peak Value	
			54.0			Average Value	
	Above 1GF	lz	74.0			Peak Value	
Test Procedure:	1GHz)/1.5r The table of highest rad 2. The EUT santenna, we tower. 3. The antenre the ground Both horizon make the meters and to find the meters and the limit specified Below 10 december	n(above 10 was rotated iation. was set 3 hich was mana height is to determental and versuspected eighen the antiquent of the rota tamaximum resciver system and width which is margin wo	GHz) above the 360 degrees meters away nounted on the serviced from the ine the maximum the inertical polarizant. The inertical polarizant was turned adding. The inertical maximum of the EUT in point testing could reported. Other pould be re-tested.	from the top of a cone met one met one to he defended from 0 to Peak more be stoperwise the done be done be stoperwise the done be stoperwise the done be to peak more defended from the done be stoperwise th	d at a rmine of the interest of the a degree ak Detailed was ped arise emissy one	table 0.8m(below a 3 meter camber. the position of the efference-receiving ble-height antenna four meters above the field strength. Intenna are set to anged to its worst from 1 meter to 4 es to 360 degrees eect Function and a 10 dB lower than and the peak values assions that did not using peak, quasi-reported in a data	
Test setup:	EUT	4m			Antenna Search Antenn Test ceiver —	1	



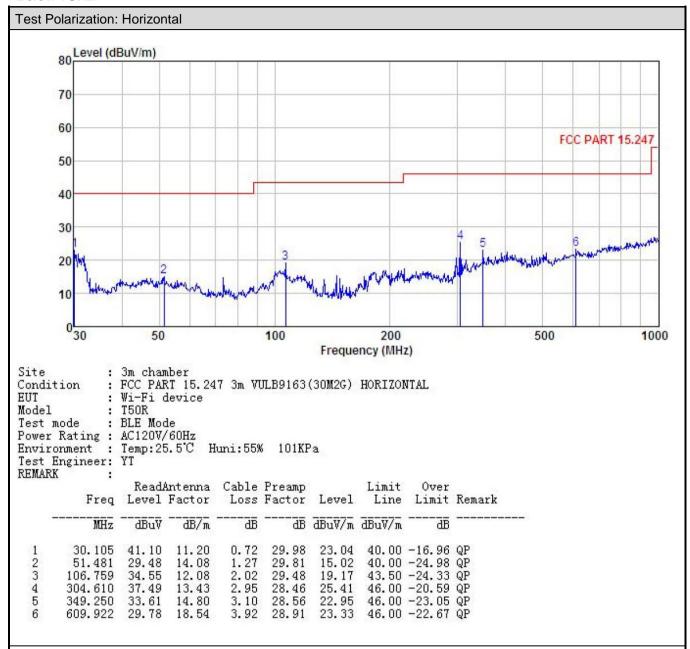






Measurement Data (worst case):

Below 1GHz:

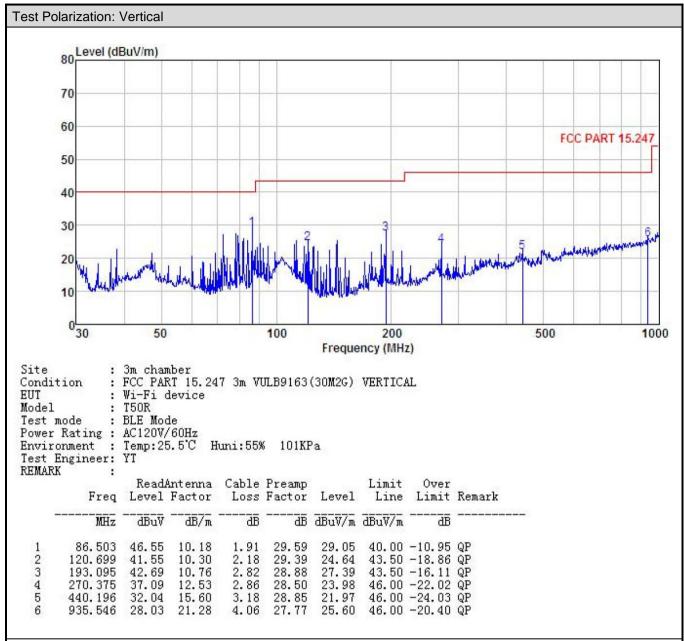


Remark:

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

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





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



Above 1GHz

Above 1GHz									
			Test ch	annel: Lowe	est channel				
			De	tector: Peak	Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	48.21	30.85	6.80	41.81	44.05	74.00	-29.95	Vertical	
4804.00	49.02	30.85	6.80	41.81	44.86	74.00	-29.14	Horizontal	
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	40.16	30.85	6.80	41.81	36.00	54.00	-18.00	Vertical	
4804.00	39.26	30.85	6.80	41.81	35.10	54.00	-18.90	Horizontal	
			Test ch	annel: Midd	lle channel				
			De	tector: Peak	Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4884.00	48.51	31.20	6.86	41.84	44.73	74.00	-29.27	Vertical	
4884.00	49.78	31.20	6.86	41.84	46.00	74.00 -28.00		Horizontal	
			Dete	ctor: Averag	ge Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4884.00	39.32	31.20	6.86	41.84	35.54	54.00	-18.46	Vertical	
4884.00	38.20	31.20	6.86	41.84	34.42	54.00	-19.58	Horizontal	
				annel: Highe					
				tector: Peak	Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	49.58	31.63	6.91	41.87	46.25	74.00	-27.75	Vertical	
4960.00	48.71	31.63	6.91	41.87	45.38	74.00	-28.62	Horizontal	
			Dete	ctor: Averaç	ge Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Level Limit Line Over		Polarization	
4960.00	39.32	31.63	6.91	41.87	35.99 54.00 -18.01 Ve			Vertical	
		· — —		· -			· —		

Remark:

4960.00

40.65

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

6.91

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

41.87

37.32

54.00

-16.68

31.63

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Horizontal