

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102720

FCC REPORT (WIFI)

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD

Address of Applicant: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU

INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN

CHINA

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: WP15 S

Trade mark: OUKITEL

FCC ID: 2ANMU-WP15S

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

Date of sample receipt: 03 Dec., 2021

Date of Test: 04 Dec., 2021 to 21 Jan., 2022

Date of report issued: 24 Jan., 2022

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 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.

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2 Version

Version No.	Date	Description
00	24 Jan., 2022	Original

Reviewed by: Date: 24 Jan., 2022

Project Engineer

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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass
Conducted Band Edge	15.247 (d)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Band Edge	15.205 & 15.209	See Section 6.6.2	Pass
Conducted Spurious Emission	15.247 (d)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. 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

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN CHINA
Manufacturer:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN CHINA

5.2 General Description of E.U.T.

Product Name:	Smart Phone			
Model No.:	WP15 S			
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)			
	2422MHz~2452MHz: 802.11n(HT40)			
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)			
	7: 802.11n(HT40)			
Channel separation:	5MHz			
Modulation technology:	Direct Sequence Spread Spectrum (DSSS)			
(IEEE 802.11b)				
Modulation technology:	Orthogonal Frequency Division Multiplexing(OFDM)			
(IEEE 802.11g/802.11n)				
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps			
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps			
Data speed (IEEE 802.11n):	Up to 150Mbps			
Antenna Type:	Internal Antenna			
Antenna gain:	0.95dBi			
Power supply:	Rechargeable Li-Polymer Battery DC3.87V, 15600mAh			
AC adapter:	Model: HJ-FC017K7-US			
	Input: AC100-240V, 50/60Hz, 0.6A			
	Output: DC 5.0V/ 7.0V/ 9V, 2.0A, or DC 12.0V, 1.5A			
Test Sample Condition:	The test samples were provided in good working order with no visible defects.			

Operation Frequency each of channel for 802.11b/g/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- 2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.





5.3 Test environment and 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			

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. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.					
Mode Data rate					
802.11b	1Mbps				
802.11g	6Mbps				
802.11n(HT20)	6.5Mbps				
802.11n(HT40)	13.5Mbps				

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

5.6 Additions to, deviations, or exclusions from the method

Nο

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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 and 10m 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.

● CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.9 Test Instruments list

Radiated Emission(above 1GHz):						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022	
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022	
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022	
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022	
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022	
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022	
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022	
EMI Test Software	Tonscend	TS+		Version:3.0.0.1		

Radiated Emission(below 1GHz):						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
10m SAC	ETS	RFSD-100-F/A	Q2005	04-28-2021	04-27-2024	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	04-02-2021	04-01-2022	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	04-02-2021	04-01-2022	
EMI Test Receiver	R&S	ESR 3	102800	04-08-2021	04-07-2022	
EMI Test Receiver	R&S	ESR 3	102802	04-08-2021	04-07-2022	
Low Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-05-2022	
Low Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-05-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-1	04-02-2021	04-01-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-2	04-02-2021	04-01-2022	
Test Software	R&S	EMC32	Version: 10.50.40			

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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 3	101189	03-03-2021	03-02-2022	
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022	
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022	
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	Version: 6.110919b			

Conducted method:					
Test Equipment	Manufacturer	acturer Model No. Serial No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022
Test Software	MWRF-tes	MTS 8310	,	Version: 2.0.0.0	_

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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 Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 0.95 dBi.

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6.2 Conducted Emission

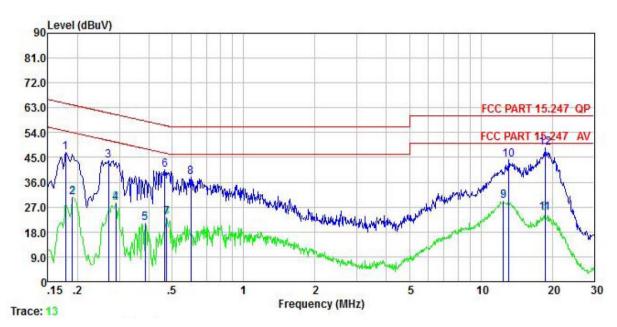
Test Requirement:	FCC Part 15 C Section 15.2	207					
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kHz						
Limit:	Fraguenov rango (MHz)	Limit (d	dBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarit	hm of the frequency.					
Test procedure	line impedance stabiliz 50ohm/50uH coupling 2. The peripheral devices LISN that provides a 50 termination. (Please re photographs). 3. Both sides of A.C. line interference. In order to positions of equipment	LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).					
Test setup:	LISN	st	er — AC power				
Test Instruments:	Refer to section 5.9 for deta	ails					
Test mode:	Refer to section 5.3 for deta	ails					
Test results:	Passed						

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Measurement Data:

Product name:	Smart Phone	Product model:	WP15 S
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



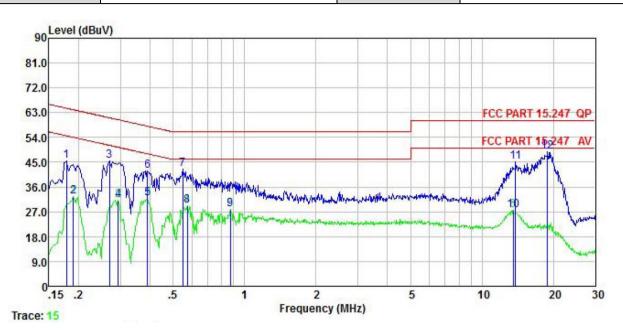
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	₫B	₫B	₫B	dBu₹	dBu∀	₫B	
1	0.178	36.71	10.23	0.00	0.01	46.95	64.59	-17.64	QP
2	0.190	20.37	10.23	0.00	0.03	30.63	54.02	-23.39	Average
3	0.270	33.62	10.25	0.00	0.02	43.89	61.12	-17.23	QP
2 3 4 5 6 7 8 9	0.289	18.31	10.26	0.00	0.03	28.60	50.54	-21.94	Average
5	0.385	10.89	10.27	0.00	0.03	21.19	48.17	-26.98	Average
6	0.466	30.33	10.29	0.00	0.03	40.65	56.58	-15.93	QP
7	0.474	12.82	10.29	0.00	0.03	23.14	46.45	-23.31	Average
8	0.601	27.61	10.30	0.00	0.02	37.93	56.00	-18.07	QP
9	12.449	18.27	10.69	0.00	0.11	29.07	50.00	-20.93	Average
10	13.127	33.35	10.71	0.00	0.11	44.17	60.00	-15.83	QP
11	18.622	13.89	10.87	0.00	0.15	24.91	50.00	-25.09	Average
12	18.622	37.38	10.87	0.00	0.15	48.40	60.00	-11.60	QP

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:	Smart Phone	Product model:	WP15 S
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



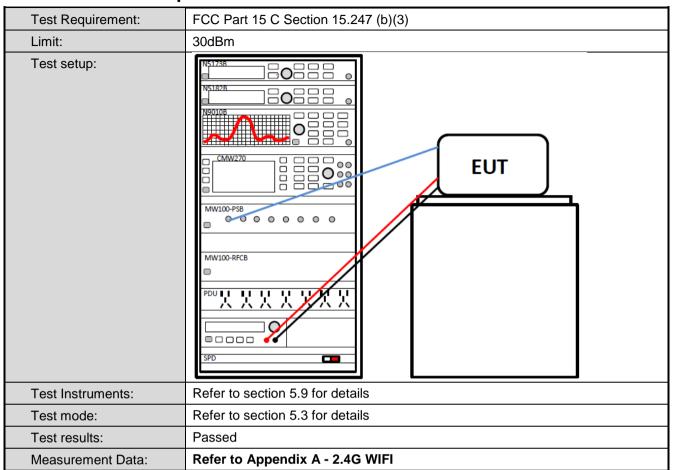
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	<u>dB</u>	₫B	dBu₹	dBu∇		
1	0.178 0.190	35.20 22.34	10.21 10.21	0.00 0.00	0.01 0.03	45.42 32.58		-19.17	QP Average
3	0.190	35.30	10.21	0.00	0.03	45.56	61.12	-15.56	QP
4	0.294 0.389	20.83	10.25 10.27	0.00	0.03				Average Average
6	0.389	31.52	10.27	0.00	0.04	41.83	58.08	-16.25	QP
1 2 3 4 5 6 7 8 9	0.549 0.573	32.08 19.00	10.29 10.29	0.00	0.02	42.39 29.31		-13.61 -16.69	QP Average
9	0.871	17.60	10.31	0.00	0.04	27.95	46.00	-18.05	Average
10 11	13.551 13.841	16.78 34.28	10.69 10.70	0.00	0.12 0.12	27.59 45.10		-22.41 -14.90	Average QP
12	18.920	37.83	10.85	0.00	0.15	48.83		-11.17	

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.

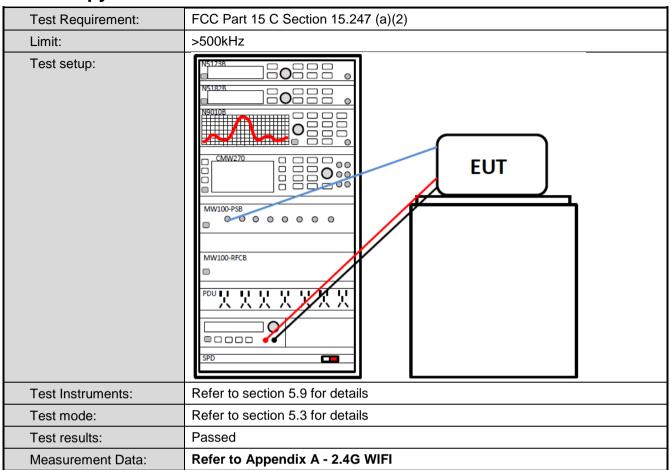


6.3 Conducted Output Power



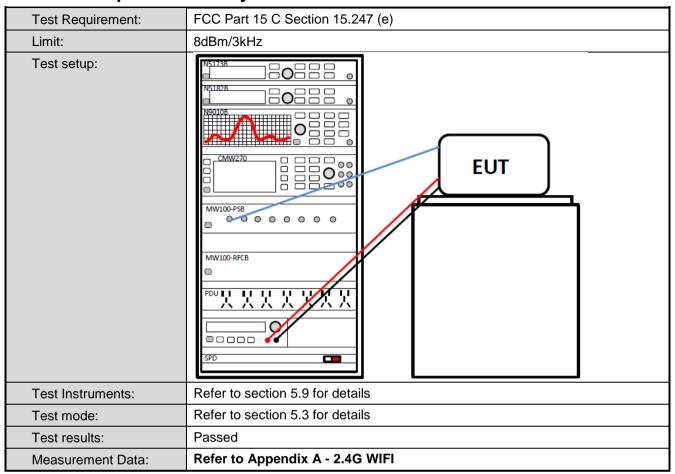


6.4 Occupy Bandwidth





6.5 Power Spectral Density





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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	NS182B NS18B NS182B NS18B NS182B NS18B NS1B NS18B NS18B NS18B NS1B NS1B NS1B NS1B NS1B NS1B NS1B NS1					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Measurement Data:	Refer to Appendix A - 2.4G WIFI					



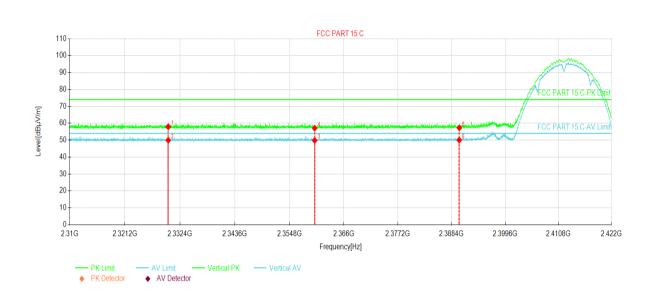
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Frequency Range:	2310 MHz to 2390	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz						
Test Distance:	3m							
Receiver setup:	Frequency	Detector	RBW	VBW				
	Above 1GHz	Peak	1MHz	3MHz	+			
Limite	Frequency	RMS	<u> 1MHz </u>	3MHz	z Average Value Remark			
Limit:			54.00	3111)	Average Value			
	Above 1GH		74.00		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 10dB 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 							
Test setup:	- 150cm	AE EUT (Turntable)	Ground Reference Plane		na Tower			
Test Instruments:	Refer to section 5	.9 for details						
Test mode:	Refer to section 5	.3 for details						
Test results:	Passed							



802.11b mode:

Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



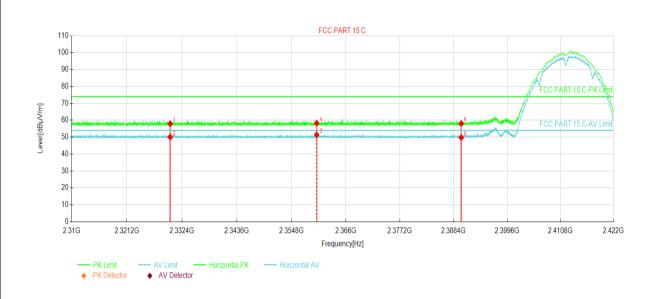
Susp	Suspected Data List										
NO	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Delerity			
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]		Polarity			
1	2330.00	22.54	57.95	35.41	74.00	16.05	PK	Vertical			
2	2330.00	14.57	49.98	35.41	54.00	4.02	AV	Vertical			
3	2360.00	14.24	49.87	35.63	54.00	4.13	AV	Vertical			
4	2360.00	21.49	57.12	35.63	74.00	16.88	PK	Vertical			
5	2390.00	21.48	57.32	35.84	74.00	16.68	PK	Vertical			
6	2390.00	14.22	50.06	35.84	54.00	3.94	AV	Vertical			

Remark:

- 1. Final Level = Receiver Read level + Factor(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:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List										
NO	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity			
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Trace				
1	2330.00	22.53	57.94	35.41	74.00	16.06	PK	Horizontal			
2	2330.00	14.67	50.08	35.41	54.00	3.92	AV	Horizontal			
3	2360.00	15.77	51.40	35.63	54.00	2.60	AV	Horizontal			
4	2360.00	22.61	58.24	35.63	74.00	15.76	PK	Horizontal			
5	2390.00	22.22	58.06	35.84	74.00	15.94	PK	Horizontal			
6	2390.00	13.94	49.78	35.84	54.00	4.22	AV	Horizontal			

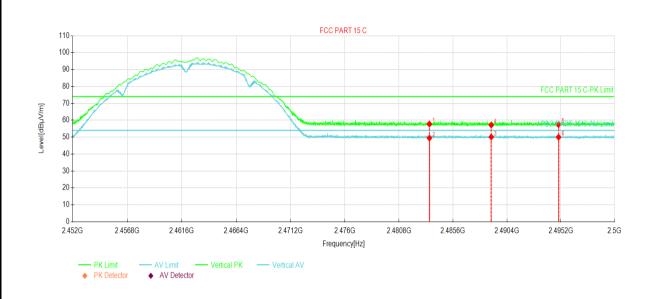
Remark:

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List								
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity	
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Hace	, oraniy	
1	2483.50	22.07	57.79	35.72	74.00	16.21	PK	Vertical	
2	2483.50	13.77	49.49	35.72	54.00	4.51	AV	Vertical	
3	2489.00	14.41	50.12	35.71	54.00	3.88	AV	Vertical	
4	2489.00	21.49	57.20	35.71	74.00	16.80	PK	Vertical	
5	2495.00	21.69	57.38	35.69	74.00	16.62	PK	Vertical	
6	2495.00	14.31	50.00	35.69	54.00	4.00	AV	Vertical	

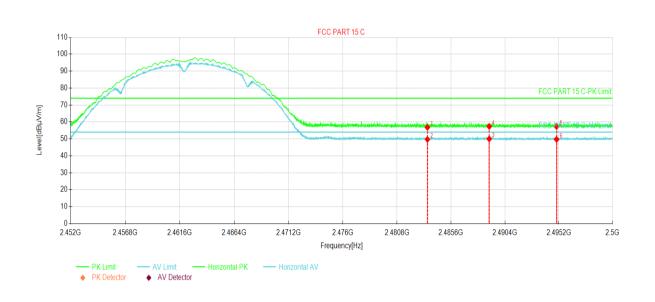
Remark

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List							
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Trans	Polarity
	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Trace	Polarity
1	2483.50	21.12	56.84	35.72	74.00	17.16	PK	Horizontal
2	2483.50	14.00	49.72	35.72	54.00	4.28	AV	Horizontal
3	2489.00	14.31	50.02	35.71	54.00	3.98	AV	Horizontal
4	2489.00	21.67	57.38	35.71	74.00	16.62	PK	Horizontal
5	2495.00	21.61	57.30	35.69	74.00	16.70	PK	Horizontal
6	2495.00	14.04	49.73	35.69	54.00	4.27	AV	Horizontal

Remark:

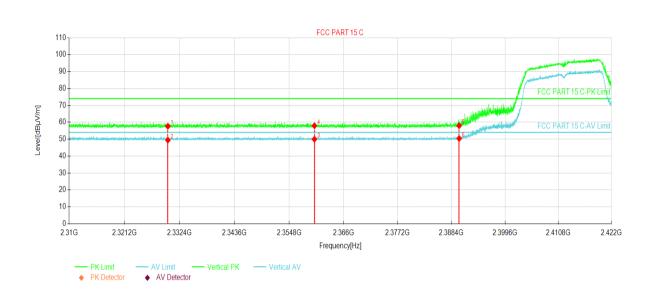
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11g mode:

Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List							
NO	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Trace	Polarity
1	2330.00	22.25	57.66	35.41	74.00	16.34	PK	Vertical
2	2330.00	14.05	49.46	35.41	54.00	4.54	AV	Vertical
3	2360.00	14.36	49.99	35.63	54.00	4.01	AV	Vertical
4	2360.00	22.29	57.92	35.63	74.00	16.08	PK	Vertical
5	2390.00	22.14	57.98	35.84	74.00	16.02	PK	Vertical
6	2390.00	14.54	50.38	35.84	54.00	3.62	AV	Vertical

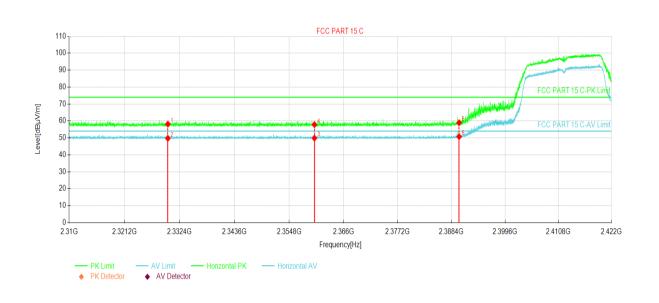
Remark

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S	
Test By:	Mike	Test mode:	802.11g Tx mode	
Test Channel:	Lowest channel	Polarization:	Horizontal	
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%	



Susp	Suspected Data List							
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.76	58.17	35.41	74.00	15.83	PK	Horizontal
2	2330.00	14.32	49.73	35.41	54.00	4.27	AV	Horizontal
3	2360.00	14.24	49.87	35.63	54.00	4.13	AV	Horizontal
4	2360.00	22.22	57.85	35.63	74.00	16.15	PK	Horizontal
5	2390.00	23.13	58.97	35.84	74.00	15.03	PK	Horizontal
6	2390.00	14.90	50.74	35.84	54.00	3.26	AV	Horizontal

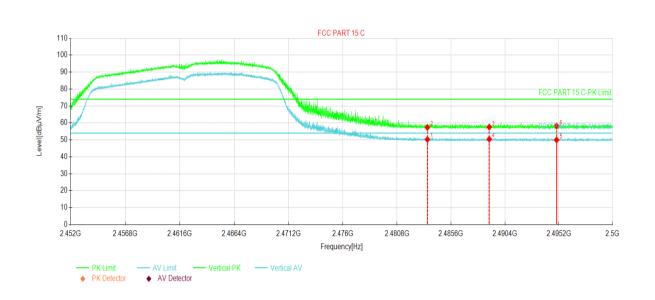
Remark:

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S	
Test By:	Mike	Test mode:	802.11g Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	DC 3.87V	Environment:	Temp: 24°C Huni: 57%	



Susp	Suspected Data List							
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	14.54	50.26	35.72	54.00	3.74	AV	Vertical
2	2483.50	21.67	57.39	35.72	74.00	16.61	PK	Vertical
3	2489.00	21.88	57.59	35.71	74.00	16.41	PK	Vertical
4	2489.00	14.73	50.44	35.71	54.00	3.56	AV	Vertical
5	2495.00	14.30	49.99	35.69	54.00	4.01	AV	Vertical
6	2495.00	22.50	58.19	35.69	74.00	15.81	PK	Vertical

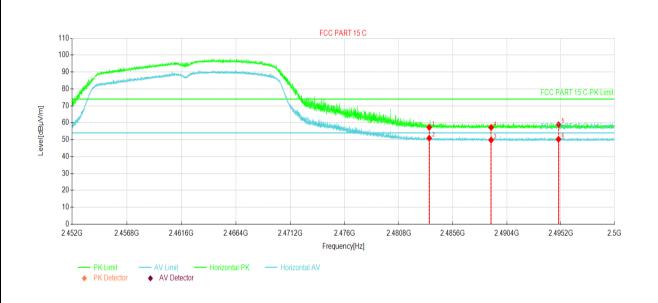
Remark

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V	Environment:	Temp: 24°C Huni: 57%



Suspected Data List								
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Troco	Dolority
	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Trace	Polarity
1	2483.50	21.54	57.26	35.72	74.00	16.74	PK	Horizontal
2	2483.50	15.18	50.90	35.72	54.00	3.10	AV	Horizontal
3	2489.00	14.08	49.79	35.71	54.00	4.21	AV	Horizontal
4	2489.00	21.51	57.22	35.71	74.00	16.78	PK	Horizontal
5	2495.00	23.16	58.85	35.69	74.00	15.15	PK	Horizontal
6	2495.00	14.55	50.24	35.69	54.00	3.76	AV	Horizontal

Remark:

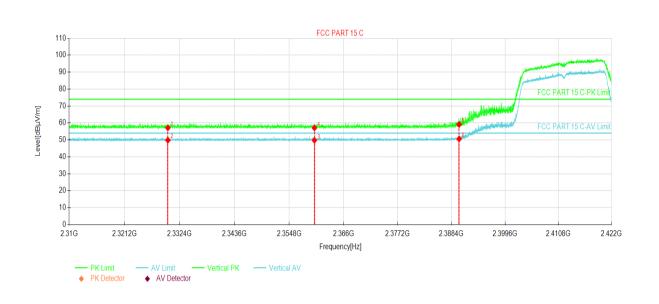
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT20):

Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List							
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity
110.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	nacc	loiding
1	2330.00	21.73	57.14	35.41	74.00	16.86	PK	Vertical
2	2330.00	14.45	49.86	35.41	54.00	4.14	AV	Vertical
3	2360.00	14.15	49.78	35.63	54.00	4.22	AV	Vertical
4	2360.00	21.47	57.10	35.63	74.00	16.90	PK	Vertical
5	2390.00	23.27	59.11	35.84	74.00	14.89	PK	Vertical
6	2390.00	14.75	50.59	35.84	54.00	3.41	AV	Vertical

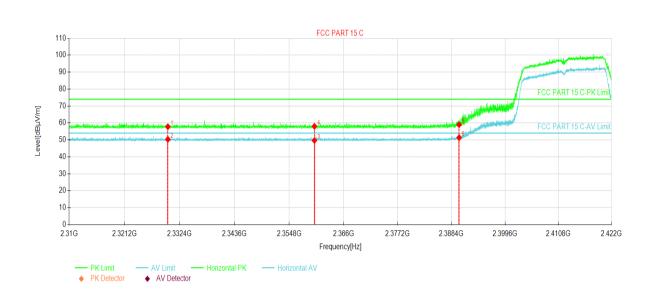
Remark:

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V	Environment:	Temp: 24°C Huni: 57%



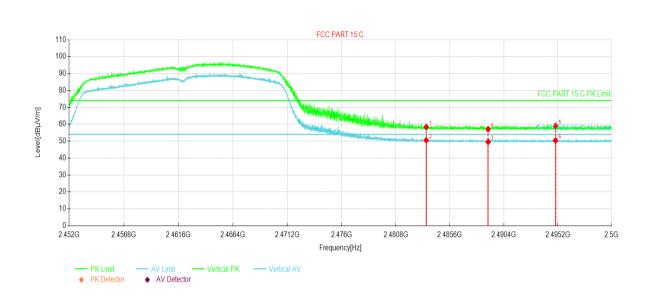
Susp	Suspected Data List								
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity	
	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]			
1	2330.00	22.37	57.78	35.41	74.00	16.22	PK	Horizontal	
2	2330.00	14.92	50.33	35.41	54.00	3.67	AV	Horizontal	
3	2360.00	14.05	49.68	35.63	54.00	4.32	AV	Horizontal	
4	2360.00	22.37	58.00	35.63	74.00	16.00	PK	Horizontal	
5	2390.00	23.16	59.00	35.84	74.00	15.00	PK	Horizontal	
6	2390.00	15.53	51.37	35.84	54.00	2.63	AV	Horizontal	

Remark

- 1. Final Level = Receiver Read level + Factor(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:	Smart Phone	Product Model:	WP15 S	
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	DC 3.87V	Environment:	Temp: 24°C Huni: 57%	



Susp	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity	
1	2483.50	22.62	58.34	35.72	74.00	15.66	PK	Vertical	
2	2483.50	14.84	50.56	35.72	54.00	3.44	AV	Vertical	
3	2489.00	13.87	49.58	35.71	54.00	4.42	AV	Vertical	
4	2489.00	21.34	57.05	35.71	74.00	16.95	PK	Vertical	
5	2495.00	23.32	59.01	35.69	74.00	14.99	PK	Vertical	
6	2495.00	14.74	50.43	35.69	54.00	3.57	AV	Vertical	

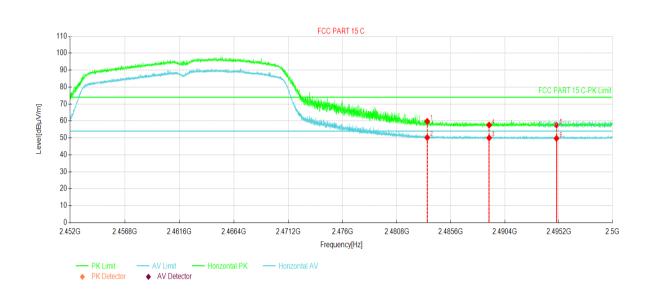
Remark

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S	
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode	
Test Channel:	Highest channel	Polarization:	Horizontal	
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%	



Susp	Suspected Data List							
NO	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Hace	Polatity
1	2483.50	24.04	59.76	35.72	74.00	14.24	PK	Horizontal
2	2483.50	14.46	50.18	35.72	54.00	3.82	AV	Horizontal
3	2489.00	14.32	50.03	35.71	54.00	3.97	AV	Horizontal
4	2489.00	21.88	57.59	35.71	74.00	16.41	PK	Horizontal
5	2495.00	21.89	57.58	35.69	74.00	16.42	PK	Horizontal
6	2495.00	14.02	49.71	35.69	54.00	4.29	AV	Horizontal

Remark:

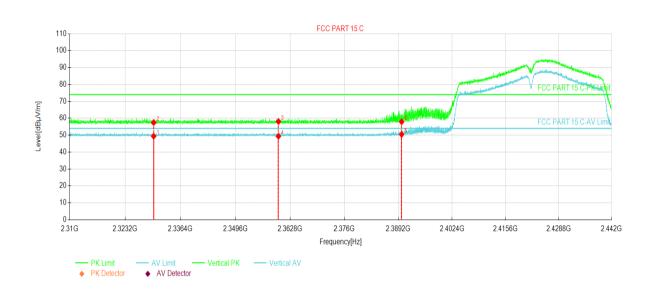
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT40):

Product Name:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



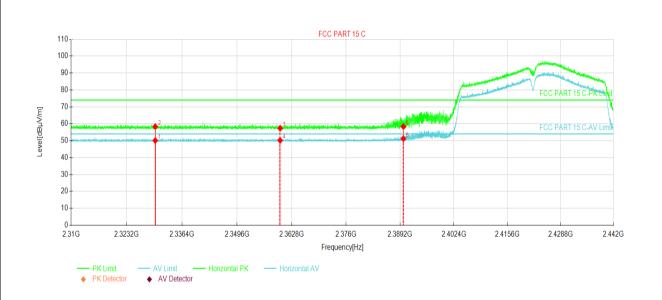
Susp	Suspected Data List							
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	13.99	49.40	35.41	54.00	4.60	AV	Vertical
2	2330.00	22.06	57.47	35.41	74.00	16.53	PK	Vertical
3	2360.00	22.46	58.09	35.63	74.00	15.91	PK	Vertical
4	2360.00	13.76	49.39	35.63	54.00	4.61	AV	Vertical
5	2390.00	14.65	50.49	35.84	54.00	3.51	AV	Vertical
6	2390.00	22.10	57.94	35.84	74.00	16.06	PK	Vertical

Remark

- 1. Final Level = Receiver Read level + Factor(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:	Smart Phone	Product Model:	WP15 S
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity	
1	2330.00	14.69	50.10	35.41	54.00	3.90	AV	Horizontal	
2	2330.00	22.87	58.28	35.41	74.00	15.72	PK	Horizontal	
3	2360.00	21.72	57.35	35.63	74.00	16.65	PK	Horizontal	
4	2360.00	14.54	50.17	35.63	54.00	3.83	AV	Horizontal	
5	2390.00	15.36	51.20	35.84	54.00	2.80	AV	Horizontal	
6	2390.00	22.50	58.34	35.84	74.00	15.66	PK	Horizontal	

Remark

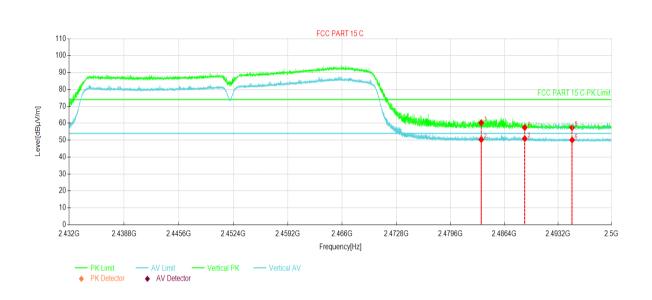
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Project No.: JYTSZE2112007



Product Name:	Smart Phone	Product Model:	WP15 S		
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode		
Test Channel:	Highest channel	Polarization:	Vertical		
Test Voltage:	DC 3.87V	Environment:	Temp: 24°C Huni: 57%		



Susp	Suspected Data List											
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity				
1	2483.50	24.61	60.33	35.72	74.00	13.67	PK	Vertical				
2	2483.50	14.64	50.36	35.72	54.00	3.64	AV	Vertical				
3	2489.00	15.20	50.91	35.71	54.00	3.09	AV	Vertical				
4	2489.00	21.74	57.45	35.71	74.00	16.55	PK	Vertical				
5	2495.00	21.72	57.41	35.69	74.00	16.59	PK	Vertical				
6	2495.00	14.42	50.11	35.69	54.00	3.89	AV	Vertical				

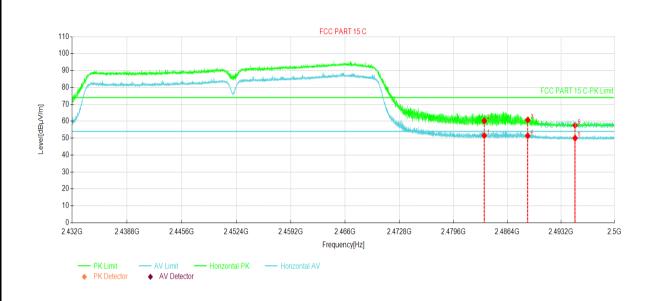
Remark:

- 1. Final Level = Receiver Read level + Factor(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.

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Product Name:	Smart Phone	Product Model:	WP15 S		
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	DC 3.87V	Environment:	Temp: 24°C Huni: 57%		



Susp	Suspected Data List										
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Dolority			
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Hace	Polarity			
1	2483.50	15.83	51.55	35.72	54.00	2.45	AV	Horizontal			
2	2483.50	24.52	60.24	35.72	74.00	13.76	PK	Horizontal			
3	2489.00	25.04	60.75	35.71	74.00	13.25	PK	Horizontal			
4	2489.00	15.70	51.41	35.71	54.00	2.59	AV	Horizontal			
5	2495.00	14.33	50.02	35.69	54.00	3.98	AV	Horizontal			
6	2495.00	21.87	57.56	35.69	74.00	16.44	PK	Horizontal			

Remark:

- 1. Final Level = Receiver Read level + Factor(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.

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6.7 Spurious Emission

6.7.1 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	NS1173R NS1172R NS1172R NS10B NS10B NS10C					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Measurement Data:	Refer to Appendix A - 2.4G WIFI					

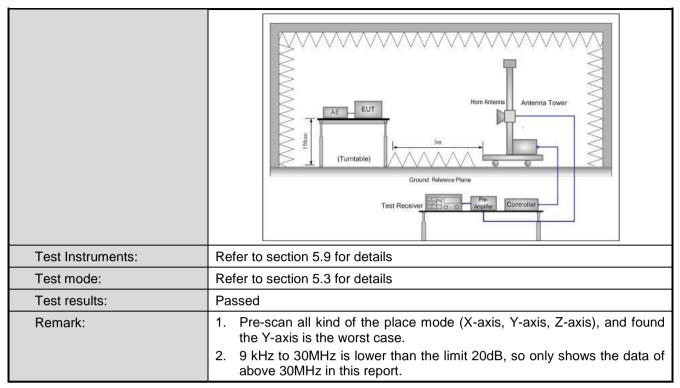
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6.7.2 Radiated Emission Method

6.7.2 Radiated Emission Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m or 10m						
Receiver setup:	Frequency	Detec	tor	RBW	V	BW	Remark
	30MHz-1GHz	Quasi-peak		120KHz	300)KHz	Quasi-peak Value
	Above 1GHz	Peal	<	1MHz	31	ЛHz	Peak Value
	Above IGIIZ	RMS 1MHz				ИHz	Average Value
Limit:	Frequency		Limit	(dBuV/m @10)m)		Remark
							uasi-peak Value
	88MHz-216MHz 33.5 Quasi-peak Value						
	216MHz-960M			36.0			uasi-peak Value
	960MHz-1GH	1Z	1 11	44.0	\	Q	uasi-peak Value
	Frequency		Limi	t (dBuV/m @3i	m)		Remark
	Above 1GHz	<u>z</u>		54.0 74.0		,	Average Value Peak Value
Test Procedure:	1. The EUT w	as nlace	d on		a rot	ating	table 0.8m(below
	(below 1GHz 360 degrees 2. The EUT wa away from the top of a v 3. The antenna ground to det horizontal and measuremen 4. For each sus and then the and the rota to maximum reasonable of the EUT wou 10dB margin average meth.	c) or 3 meta to determ s set 10 me he interfer rariable-he height is set termine the d vertical at. pected en antenna vertical antenna vertical eiver system and level of d, then test ld be repo	er cha ine the meters ence-reight a varied e max polariz nission was turned em was ith Ma the El sting corted. (re-tes	mber(above e position of the position of the school of the position of the school of the position of the posit	1GHz the hid z) or enna, ter to of the ante as arr ees to Dete Mode woed are e emis ne us	z). The ghest r 3 me which of our managed in 1 me in 360 cct. Fund the pssions ing peak	ters(above 1GHz) was mounted on neters above the trength. Both e set to make the to its worst case ter to 4 meters legrees to find the ction and dB lower than the beak values of that did not have ak, quasi-peak or
Test setup:	Below 1GHz EUT Turn Table Ground Pl. Above 1GHz	0.8m	1m		<u></u>	Searce Anter	nna :





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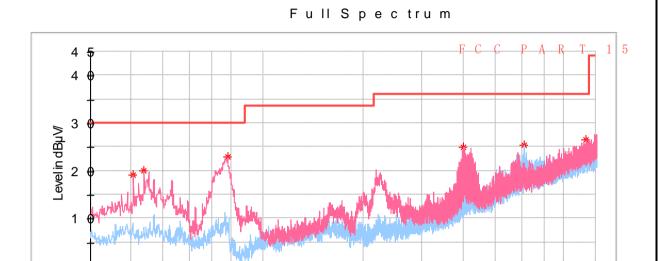
8 0 0 G



Measurement Data (worst case):

Below 1GHz:

Product Name:	Smart Phone	Product Model:	WP15 S		
Test By:	Mike	Test mode:	Wi-Fi Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal		
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%		



M 200 3004 Frequency in

Frequency (MHz)	MaxPeak (dB ₩V/m)	Limit (dB # V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
605.792000	25.48	36.00	10.52	100.0	Н	130.0	-6.5
43.386000	20.22	30.00	9.78	100.0	V	1.0	-15.7
40.282000	19.23	30.00	10.77	100.0	V	5.0	-15.6
77.627000	23.09	30.00	6.91	100.0	V	76.0	-19.7
925.601000	26.54	36.00	9.46	100.0	V	97.0	-0.4
398.212000	25.09	36.00	10.91	100.0	V	310.0	-11.1

Remark:

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

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

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Above 1GHz

Above 1GHz							
			802.11b				
			annel: Lowest ch				
Detector: Peak Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4824.00	58.49	-9.46	49.03	74.00	24.97	Vertical	
4824.00	61.91	-9.46	52.45	74.00	21.55	Horizontal	
		Dete	ctor: Average Va	alue			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4824.00	53.97	-9.46	44.51	54.00	9.49	Vertical	
4824.00	59.98	-9.46	50.52	54.00	3.48	Horizontal	
		Test ch	annel: Middle ch	nannel			
			tector: Peak Valu				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4874.00	58.36	-9.11	49.25	74.00	24.75	Vertical	
4874.00	62.22	-9.11	53.11	74.00	20.89	Horizontal	
		Dete	ctor: Average Va	alue			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4874.00	53.61	-9.11	44.50	54.00	9.50	Vertical	
4874.00	60.38	-9.11	51.27	54.00	2.73	Horizontal	
		Toot ob	annali Uighaat al	hannal			
			annel: Highest cl tector: Peak Valu				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	58.13	-8.74	49.39	74.00	24.61	Vertical	
4924.00	61.68	-8.74	52.94	74.00	21.06	Horizontal	
			ctor: Average Va	alue			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	53.72	-8.74	44.98	54.00	9.02	Vertical	
4924.00	60.23	-8.74	51.49	54.00	2.51	Horizontal	
-	•				•		

Remark:

^{1.} Final Level = Receiver Read level + Factor.

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





802.11g								
Test channel: Lowest channel								
	Detector: Peak Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4824.00	58.27	-9.46	48.81	74.00	25.19	Vertical		
4824.00	61.87	-9.46	52.41	74.00	21.59	Horizontal		
		Dete	ctor: Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4824.00	54.13	-9.46	44.67	54.00	9.33	Vertical		
4824.00	59.87	-9.46	50.41	54.00	3.59	Horizontal		

	Test channel: Middle channel								
	Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4874.00	58.15	-9.11	49.04	74.00	24.96	Vertical			
4874.00	61.80	-9.11	52.69	74.00	21.31	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4874.00	54.11	-9.11	45.00	54.00	9.00	Vertical			
4874.00	60.23	-9.11	51.12	54.00	2.88	Horizontal			

	Test channel: Highest channel								
	Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4924.00	58.78	-8.74	50.04	74.00	23.96	Vertical			
4924.00	61.63	-8.74	52.89	74.00	21.11	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4924.00	53.70	-8.74	44.96	54.00	9.04	Vertical			
4924.00	60.36	-8.74	51.62	54.00	2.38	Horizontal			

Remark

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^{1.} Final Level = Receiver Read level + Factor.

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





			802.11n(HT20)			
			annel: Lowest ch			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	tector: Peak Valu Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	58.77	-9.46	49.31	74.00	24.69	Vertical
4824.00	61.42	-9.46	51.96	74.00	22.04	Horizonta
	J	1	ctor: Average Va			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	53.97	-9.46	44.51	54.00	9.49	Vertical
4824.00	59.93	-9.46	50.47	54.00	3.53	Horizonta
		Test ch	annel: Middle ch	annel		
			tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	58.77	-9.11	49.66	74.00	24.34	Vertical
4874.00	61.63	-9.11	52.52	74.00	21.48	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	53.69	-9.11	44.58	54.00	9.42	Vertical
4874.00	59.48	-9.11	50.37	54.00	3.63	Horizonta
		Taskah	anal I Bahaat al			
			annel: Highest cl tector: Peak Valu			
Fraguenav	Read Level	De		Limit Line	Margin	
Frequency (MHz)	(dBuV)	Factor(dB)	Level (dBuV/m)	(dBuV/m)	(dB)	Polarization
4924.00	58.00	-8.74	49.26	74.00	24.74	Vertical
4924.00	61.44	-8.74	52.70	74.00	21.30	Horizonta
_	T =	Dete	ctor: Average Va		1	T
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	53.92	-8.74	45.18	54.00	8.82	Vertical
4924.00	59.76	-8.74	51.02	54.00	2.98	Horizonta

^{1.} Final Level = Receiver Read level + Factor.

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



			802.11n(HT40)							
		Test ch	annel: Lowest ch	nannel						
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4844.00	58.51	-9.32	49.19	74.00	24.81	Vertical				
4844.00	61.17	-9.32	51.85	74.00	22.15	Horizontal				
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4844.00	53.54	-9.32	44.22	54.00	9.78	Vertical				
4844.00	60.34	-9.32	51.02	54.00	2.98	Horizontal				
Test channel: Middle channel										
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4874.00	59.09	-9.11	49.98	74.00	24.02	Vertical				
4874.00	61.84	-9.11	52.73	74.00	21.27	Horizontal				
	Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4874.00	54.11	-9.11	45.00	54.00	9.00	Vertical				
4874.00	59.98	-9.11	50.87	54.00	3.13	Horizontal				
			annel: Highest cl							
		Det	tector: Peak Valu		B.A	<u> </u>				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4904.00	58.95	-8.90	50.05	74.00	23.95	Vertical				
4904.00	61.72	-8.90	52.82	74.00	21.18	Horizontal				
		Dete	ctor: Average Va		T					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4904.00	54.43	-8.90	45.53	54.00	8.47	Vertical				
4904.00	60.08	-8.90	51.18	54.00	2.82	Horizontal				
Remark:	Pagainar Pagallanal	_								

^{1.} Final Level = Receiver Read level + Factor.

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





8 EUT Constructional Details

Reference to the test report No.: JYTSZB-R12-2102717.

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