

TEST REPORT

FCC ID: 2AJDUK8

Product: smart watch

Model No.: K8

Additional Model: N/A

Trade Mark: N/A

Report No.: TCT160706E014

Issued Date: Aug. 05, 2016

Issued for:

Shenzhen Usmart Electronic Technology Company.,Ltd
2F building Mu Design industrial park Nanshan district Shenzhen city
China 518052

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Product:	smart watch
Model No.:	K8
Additional Model No.:	N/A (S) (S)
Applicant:	Shenzhen Usmart Electronic Technology Company.,Ltd
Address:	2F building Mu Design industrial park Nanshan district Shenzhen city China 518052
Manufacturer:	Shenzhen Usmart Electronic Technology Company.,Ltd
Address:	2F building Mu Design industrial park Nanshan district Shenzhen city China 518052
Date of Test:	July 06 – Aug. 04, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

 Tested By:
 Garen
 Date:
 Aug. 04, 2016

 Reviewed By:
 Joe Zhou
 Date:
 Aug. 05, 2016

 Approved By:
 Towsin
 Date:
 Aug. 05, 2016

Tomsin



2. Test Result Summary

Requirement	CFR 47 Section	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) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



3. EUT Description

Product Name:	smart watch	
Model :	K8	
Additional Model:	N/A	
Trade Mark:	N/A	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))	
Channel Separation:	5MHz	
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)	
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)	
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)	
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:	-0.5dBi	
Power Supply:	Rechargeable Li-ion Battery DC3.8V	

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		`



Operation Frequency each of channel For 802.11n (HT40)

<u> </u>		7 41 7 11	• • • • • • • • • • • • • • • • • • • •		\		
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
(5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		(,C,)

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, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency		
The lowest channel	2422MHz		
The middle channel	2437MHz		
The Highest channel	2452MHz		





4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

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 in lowest channel, and found the follow list which it was worst case.

Mode	Data rate		
802.11b	1Mbps		
802.11g	6Mbps		
802.11n(H20)	6.5Mbps		
802.11n(H40)	13.5Mbps		

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting	
	with modulation	

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Notebook	G485	1	1	Lenovo

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.





5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology 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 L6165.

5.2. Location

Shenzhen Tongce Testing Lab

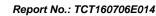
Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

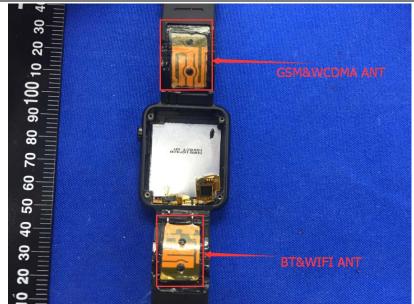
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 EUT antenna is an internal antenna which permanently attached, and the best case gain of the antenna is -0.5dBi.



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6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 207			
· · · · · · · · · · · · · · · · · · ·		10.207			
Test Method:	ANSI C63.10:2013		(%)		
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto		
	Frequency range	Limit (c	Limit (dBuV)		
	(MHz)	Quasi-peak	Áverage		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Reference	e Plane			
Test Setup:	Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Charging + transmitting with modulation				
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This 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 C63.10: 2013 on conducted measurement. 				
Test Result:	PASS				



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI Test Receiver	R&S	ESCS30	100139	Sep. 11, 2016			
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 16, 2016			
Coax cable	TCT	CE-05	N/A	Sep. 11, 2016			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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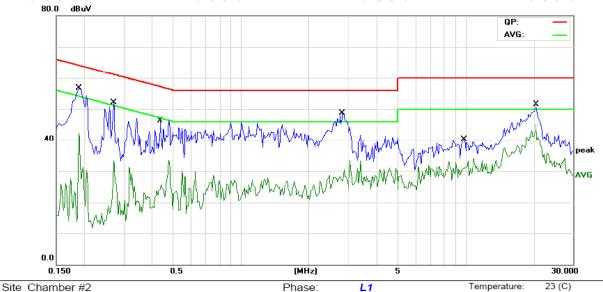




6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15B Class B Conduction(QP)

Power: AC 120V/60Hz

Temperature: 23 Humidity: 54 %

1 2	MHz 0.1891 0.1891 0.2711 0.2711	dBuV 28.51 10.40 30.39	dB 11.47 11.47 11.42	dBuV 39.98 21.87 41.81		dB -24.09 -32.20	QP AVG	Comment
	0.1891 0.2711	10.40 30.39	11.47	21.87				
	0.2711	30.39			54.07	-32.20	AVG	
			11.42	/1 81				
3	0.2711			71.01	61.08	-19.27	QP	
4		13.06	11.42	24.48	51.08	-26.60	AVG	
5	0.4352	28.83	11.33	40.16	57.15	-16.99	QP	
6	0.4352	13.82	11.33	25.15	47.15	-22.00	AVG	
7	2.8219	27.13	11.39	38.52	56.00	-17.48	QP	
8	2.8219	14.81	11.39	26.20	46.00	-19.80	AVG	
9	9.8516	21.23	11.31	32.54	60.00	-27.46	QP	
10	9.8516	13.82	11.31	25.13	50.00	-24.87	AVG	
11	20.6484	33.72	10.56	44.28	60.00	-15.72	QP	
12 *	20.6484	25.70	10.56	36.26	50.00	-13.74	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

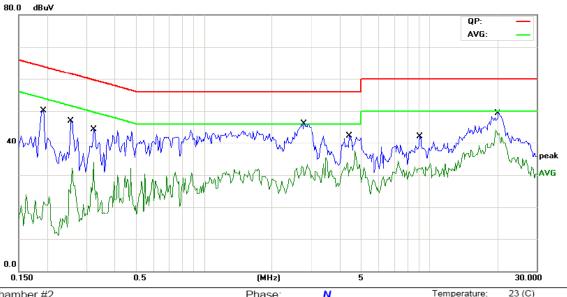
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AVG =average

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2	Phase:	N	Temperature	e: 23 (C)
Limit: FCC Part 15B Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	54 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	1		0.1930	31.06	11.48	42.54	63.90	-21.36	QP	
	2		0.1930	12.58	11.48	24.06	53.90	-29.84	AVG	
_	3		0.2555	27.15	11.45	38.60	61.57	-22.97	QP	
) -	4		0.2555	13.68	11.45	25.13	51.57	-26.44	AVG	
	5		0.3219	26.77	11.42	38.19	59.66	-21.47	QP	
_	6		0.3219	13.59	11.42	25.01	49.66	-24.65	AVG	
_	7		2.7788	27.38	11.41	38.79	56.00	-17.21	QP	
_	8		2.7788	17.60	11.41	29.01	46.00	-16.99	AVG	
_	9		4.4219	24.89	10.83	35.72	56.00	-20.28	QP	
_	10		4.4219	15.07	10.83	25.90	46.00	-20.10	AVG	
_	11		9.1055	22.48	11.23	33.71	60.00	-26.29	QP	
\	12		9.1055	13.87	11.23	25.10	50.00	-24.90	AVG	
/_	13		20.2383	33.41	10.57	43.98	60.00	-16.02	QP	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.





AVG =average

6.2.4. Maximum Conducted (Average) Output Power

6.2.5. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3), CFR part 2.1046				
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05				
Limit:	30dBm				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 				
Test Result:	PASS				

6.2.6. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
RF cable	тст	RE-06	N/A	Sep. 12, 2016
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2), CFR part 2.1049				
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05				
Limit:	>500kHz				
Test Setup:					
	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 				
Test Result:	PASS				

6.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016			
RF cable	тст	RE-06	N/A	Sep. 12, 2016			
Antenna Connector	тст	RFC-01	N/A	Sep. 12, 2016			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4. Power Spectral Density

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05
Limit:	The Average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room							
RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016			
RF cable	TCT	RE-06	N/A	Sep. 12, 2016			
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d), §2.1051, §2.1057
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analysis EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



6.5.2. Test Instruments

RF Test Room								
Equipment	Manufacturer Model S		Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016				
RF cable	TCT	RE-06	N/A	Sep. 12, 2016				
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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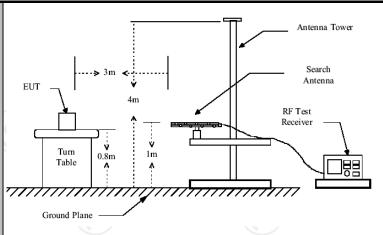


6.6. Radiated Spurious Emission Measurement

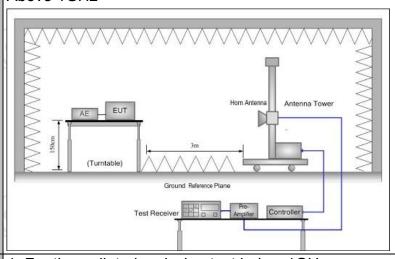
6.6.1. Test Specification

Test Requirement:	FCC Part15	FCC Part15 C Section 15.209, §2.1053, §2.1057						
Test Method:	ANSI C63.10	0: 2013	(, (((C))	
Frequency Range:	9 kHz to 25 (GHz	6					
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal &	Vertical			(6)			
Operation mode:	Transmitting	mode wi	ith ı	modulat	ion			
	Frequency	Detector	-	RBW	VBW		Remark	
	9kHz- 150kHz	Quasi-pea		200Hz	1kHz		si-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pea	ak	9kHz	30kHz	Qua	si-peak Value	
	30MHz-1GHz	Quasi-pea	ak	100KHz	300KHz	Quas	si-peak Value	
	Above 1GHz	Peak		1MHz	3MHz	1	eak Value	
	7.0010 101.	Peak		1MHz	10Hz	Ave	erage Value	
	Frequen	icy	(Field Stre				
	0.009-0.490			2400/F(ł	(Hz)	300		
	0.490-1.705			24000/F(KHz)	30		
	1.705-30			30		30		
	30-88			100			3	
1.5	88-216			150			3	
Limit:	216-96			200			3	
	Above 960 500						ა	
	Frequency		eld Strength crovolts/meter)		Measure Distan (meter	се	Detector	
	Above 1GHz	,	500		3		Average	
	Above IGHZ	2	50	000	3		Peak	
Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver					er		
	30MHz to 10	ÞΗΖ			(4)			





Above 1GHz



1. For the radiated emission test below 1GHz:

Test Procedure:

above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for

The EUT was placed on a turntable with 1.5 meter



	receiving the maximum signal. The final
	receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss +
	Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
	 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;
	(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the
Test results:	transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. PASS





6.6.2. Test Instruments

	Radiated Em	ission Test Sit	te (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016	
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016	
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016	
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016	
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016	
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016	
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sep. 13, 2016	
Coax cable	TCT	RE-low-01	N/A	Sep. 11, 2016	
Coax cable	TCT	RE-high-02	N/A	Sep. 11, 2016	
Coax cable	тст	RE-low-03	N/A	Sep. 11, 2016	
Coax cable	тст	RE-High-04	N/A	Sep. 11, 2016	
Antenna Mast	ccs	CC-A-4M	N/A	Sep. 12, 2016	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

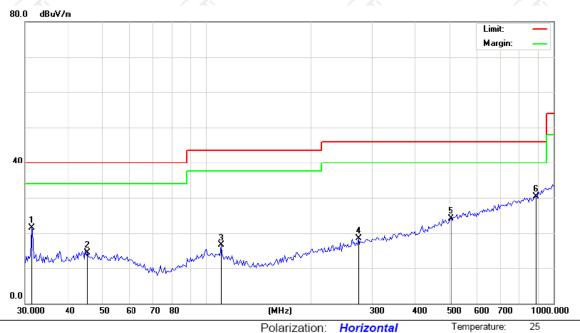
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:



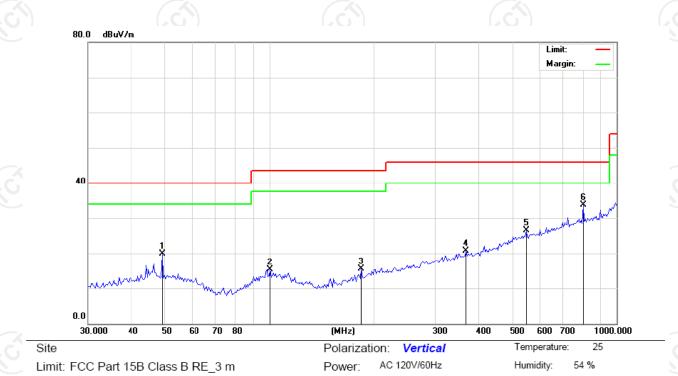
Site Limit: FCC Part 15B Class B RE_3 m Polarization: Horizontal
Power: AC 120V/60Hz

Humidity: 54 %

_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
<u> </u>			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
_	1		31.2918	35.02	-13.56	21.46	40.00	-18.54	peak		0	
-	2		45.4130	26.63	-12.24	14.39	40.00	-25.61	peak		0	
-	3	,	110.0818	28.58	-12.01	16.57	43.50	-26.93	peak		0	
-	4	2	274.4463	27.62	-9.12	18.50	46.00	-27.50	peak		0	
-	5	į	505.7891	26.95	-2.92	24.03	46.00	-21.97	peak		0	
_	6	* {	387.3977	27.78	2.52	30.30	46.00	-15.70	peak		0	



Vertical:



N	10. N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
_	1	4	49.0626	31.98	-12.08	19.90	40.00	-20.10	peak		0	
	2	10	00.4711	26.70	-11.46	15.24	43.50	-28.26	peak		0	
	3	18	83.8660	28.20	-12.79	15.41	43.50	-28.09	peak		0	
	4	3	68.6681	27.62	-6.84	20.78	46.00	-25.22	peak		0	
	5	5	50.2902	28.87	-2.45	26.42	46.00	-19.58	peak		0	
	6 *	* 8	04.2522	32.20	1.51	33.71	46.00	-12.29	peak		0	

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Highest channel and 802.11g) was submitted only.



Test Result of Radiated Spurious at Band edges Modulation Type: 802.11b

١.									
Low channel: 2412 MHz									
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)		
ſ	2310	Н	45.83	-4.20	41.63	74.00	54.00		
	2377.38	Н	48.37	-4.10	44.27	74.00	54.00		
	2390	Н	53.40	-3.94	49.46	74.00	54.00		
	2310	V	44.22	-4.20	40.02	74.00	54.00		
	2377.38	V	54.25	-4.10	50.15	74.00	54.00		
	2390	V	55.77	-3.94	51.83	74.00	54.00		

Modulation Type: 802.11b

		Modu	idilott Typo. oo								
	Low channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)					
2483.5	Н	51.14	-3.60	47.54	74.00	54.00					
2487.09	Н	47.83	-3.50	44.33	74.00	54.00					
2500	Н	45.23	-3.34	41.89	74.00	54.00					
2483.5	V	54.86	-3.60	51.26	74.00	54.00					
2487.09	V	47.24	-3.50	43.74	74.00	54.00					
2500	V	42.56	-3.34	39.22	74.00	54.00					

Modulation Type: 802.11g

Low channel: 2412 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)		
2310	Н	43.06	-4.20	38.86	74.00	54.00		
2388.96	Н	50.89	-4.12	46.77	74.00	54.00		
2390	Н	53.42	-3.94	49.48	74.00	54.00		
2310	V	45.74	-4.20	41.54	74.00	54.00		
2388.96	V	49.69	-4.12	45.57	74.00	54.00		
2390	V	54.17	-3.94	50.23	74.00	54.00		

Modulation Type: 802.11g

Low channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
2483.5	Н	52.34	-3.60	48.74	74.00	54.00			
2487.59	Н	50.05	-3.52	46.53	74.00	54.00			
2500	Н	46.78	-3.34	43.44	74.00	54.00			
2483. 5	V	51.62	-3.60	48.02	74.00	54.00			
2487.59	V	47.73	-3.52	44.21	74.00	54.00			
2500	V	47.5	-3.34	44.16	74.00	54.00			



Modulation Type: 802.11n(20MHz) Low channel: 2412 MHz

	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)		
	2310	Н	46.51	-4.20	42.31	74.00	54.00		
	2388.01	Н	53.68	-4.10	49.58	74.00	54.00		
	2390	Н	54.76	-3.94	50.82	74.00	54.00		
	2310	V	48.06	-4.20	43.86	74.00	54.00		
	2388.01	V	54.28	-4.10	50.18	74.00	54.00		
	2390	V	55.53	-3.94	51.59	74.00	54.00		

Modulation Type: 802.11n(20MHz)

		Low	channel: 2462	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	
2483.5	Н	52.60	-3.60	49.00	74.00	54.00	
2392.55	Н	51.57	-3.50	48.07	74.00	54.00	
2500	Н	47.77	-3.34	44.43	74.00	54.00	
2483. 5	>	53.22	-3.60	49.62	74.00	54.00	
2392.55	>	50.79	-3.50	47.29	74.00	54.00	
2500	V	48.64	-3.34	45.30	74.00	54.00	

Modulation Type: 802.11n(40MHz)

Low channel: 2422 MHz										
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)			Peak limit (dBµV/m)	AV limit (dBµV/m)			
	2310	Н	51.02	-4.20	46.82	74.00	54.00			
	2387.85	Н	54.73	-4.10	50.63	74.00	54.00			
	2390	Н	50.86	-3.94	46.92	74.00	54.00			
	2310	V	52.19	-4.20	47.99	74.00	54.00			
	2389.98	V	48.77	-4.10	44.67	74.00	54.00			
	2390	V	47.26	-3.94	43.32	74.00	54.00			

Modulation Type: 802.11n(40MHz)

	Low channel: 2452 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)							
2483.5	Н	53.1	-3.60	49.5	74.00	54.00							
2493.51	2493.51 H		-3.50	49.37	74.00	54.00							
2500	Н	48.31	-3.34	44.97	74.00	54.00							
2493.51	V	53.56	-3.60	49.96	74.00	54.00							
2489.36	V	51.6	-3.46	48.14	74.00	54.00							
2500	V	49.43	-3.34	46.09	74.00	54.00							

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier





Above 1GHz

Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4824	Н	50.74	+- ()	0.75	51.49		74	54	-2.51	
7236	CO H	41.46	70	9.87	51.33	(O+)	74	54	-2.67	
	H					<u></u>				
4824	V	49.78		0.75	50.53		74	54	-3.47	
7236	V	41.58		9.87	51.45		74	54	-2.55	
(J)	V	(, (, ')		(, ((, G)		(, (

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	(dRul/) Factor		Emission Level Peak AV (dBµV/m) (dBµV/m)		AV limit (dBµV/m)	Margin (dB)			
4874	Н	49.59	KO	0.97	50.56	(O) 7	74	54	-3.44			
7311	Н	41.12		9.83	50.95		74	54	-3.05			
	Н											
4874	V	49.45		0.97	50.42		74	54	-3.58			
7311	V	40.96		9.83	50.79		74	54	-3.21			
	V											

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Η	49.57		1.18	50.75		74	54	-3.25		
7386	Ι	39.65		10.07	49.72		74	54	-4.28		
	Ι	I					-				
- 1											
4924	V	49.99		1.18	51.17		74	54	-2.83		
7386	V	40.53		10.07	50.60		74	54	-3.40		
	V										

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





			L	ow channe	I: 2412 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Η	49.36		0.75	50.11		74	54	-3.89
7236	Н	40.61		9.87	50.48		74	54	-3.52
	H		7- (1)					7	
	(0)		60.)		(0)		(,0,	
4824	V	47.57	-77	0.75	48.32		74	54	-5.68
7236	V	40.68		9.87	50.55		74	54	-3.45
	V								

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Η	48.15		0.97	49.12	-	74	54	-4.88
7311	Ξ	40.17	<i>+-</i>	9.83	50.00		74	54	-4.00
	Э		150	/		7		<u>1</u> K	
4874	V	47.32		0.97	48.29		74	54	-5.71
7311	V	40.58		9.83	50.41		74	54	-3.59
	V								

	High channel: 2462 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)			
4924	Н	47.76		1.18	48.94		74	54	-5.06			
7386	Н	39.94		10.07	50.01	7	74	54	-3.99			
	Н											
4924	V	46.57		1.18	47.75		74	54	-6.25			
7386	V	40.20		10.07	50.27		74	54	-3.73			
Y /	V	<u> </u>)		12					

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





Modulation Type: 802.11n (HT20)

_	modulation Type: 662.1 m (TT26)										
	Low channel: 2412 MHz										
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
	4824	I	49.07		0.75	49.82		74	54	-4.18	
	7236	Η	40.60		9.87	50.47		74	54	-3.53	
	/	H		-/-			4		7		
		(0)		(20)			(0)		(,0,		
	4824	V	47.59		0.75	48.34	<u> </u>	74	54	-5.66	
	7236	V	40.24		9.87	50.11		74	54	-3.89	
		V									

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	47.29		0.97	48.26		74	54	-5.74
7311	Ξ	40.47		9.83	50.3		74	54	-3.70
	H		140	/		7		<u> </u>	
					,				
4874	V	47.42		0.97	48.39		74	54	-5.61
7311	V	40.03		9.83	49.86		74	54	-4.14
	V								(

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4924	Н	48.16		1.18	49.34		74	54	-4.66
7386	Н	40.64	-	10.07	50.71	7	74	54	-3.29
	Н								
4924	V	47.00		1.18	48.18		74	54	-5.82
7386	V	40.28		10.07	50.35		74	54	-3.65
Y)	V	<u> </u>)		<u> </u>		

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





Modulation Type: 802.11n (HT40)

				IVICAA	iation Typo	. 002. 1 111 (1				
	Low channel: 2422 MHz									
F	requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4844	Н	44.87		0.66	45.53		74	54	-8.47
	7266	Н	37.69	-/- _()	9.5	47.19		74	54	-6.81
		(OH		7 0.			(O+)		70	
						1				
	4824	V	45.12		0.66	45.78		74	54	-8.22
	7236	V	38.06		9.5	47.56		74	54	-6.44
	(\	V				×				

			M	iddle chanr	nel: 2437MF	l z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	46.33		0.99	47.32		74	54	-6.68
7311	Н	36.57	KO	9.85	46.42	-	74	54	-7.58
	Н								
4874	V	45.74		0.99	46.73		74	54	-7.27
7311	V	37.5		9.85	47.35		74	54	-6.65
)	٧	ドロ)		/))		(ZD)		K

	High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)	
4904	Н	44.85	-	1.33	46.18	-/-	74	54	-7.82	
7356	Н	36.17		10.22	46.39		74	54	-7.61	
	Н									
4904	V	45.21		1.33	46.54		74	54	-7.46	
7356	V	36.42		10.22	46.64		74	54	-7.36	
	V									

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

*****END OF REPORT****







Appendix A: Test result of conducted Test Conducted Average Output Power

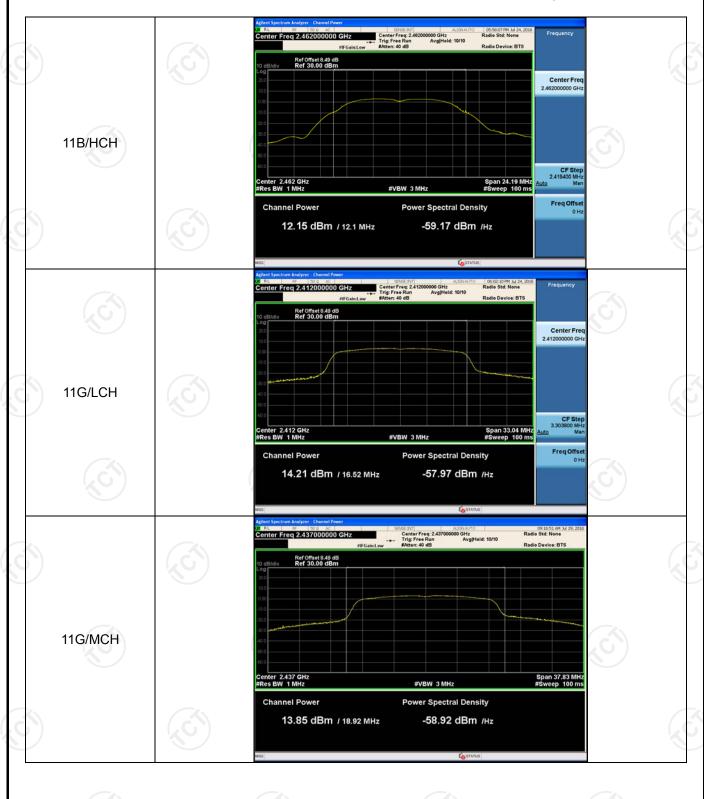
Result Table

Mode	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11B	LCH	14.57	14.57	PASS
11B	MCH	13.28	13.28	PASS
11B	HCH	12.15	12.15	PASS
11G	LCH	14.21	14.21	PASS
11G	MCH	13.85	13.85	PASS
11G	HCH	13.50	13.50	PASS
11N20SISO	LCH	10.55	10.55	PASS
11N20SISO	MCH	10.26	10.26	PASS
11N20SISO	HCH	10.49	10.49	PASS
11N40SISO	LCH	11.11	11.11	PASS
11N40SISO	MCH	11.71	11.71	PASS
11N40SISO	HCH	10.28	10.28	PASS

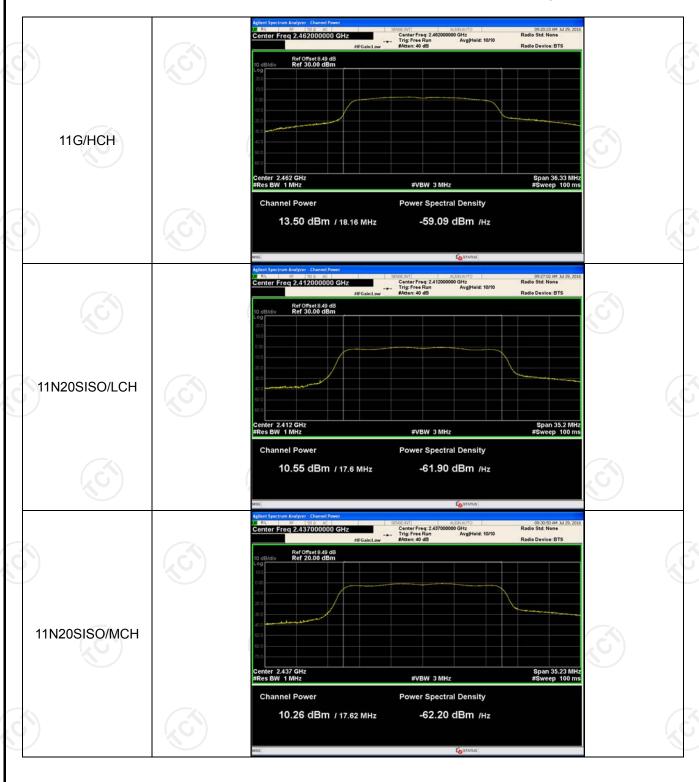
Test Graph



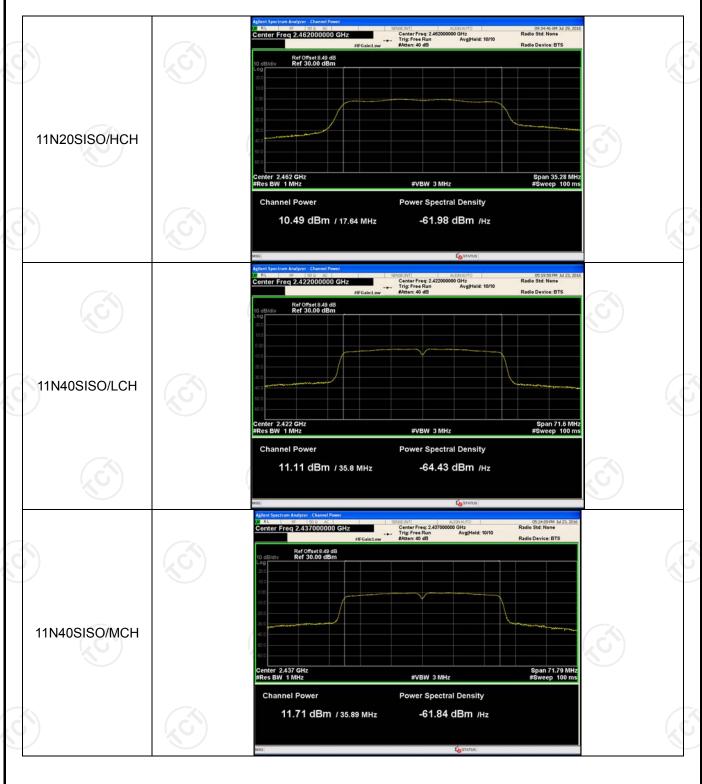




















6dB Occupied Bandwidth

Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	9.557	12.016	PASS
11B	MCH	9.087	12.099	PASS
11B	HCH	9.507	12.097	PASS
11G	LCH	14.41	16.519	PASS
11G	MCH	15.08	18.915	PASS
11G	HCH	14.05	18.164	PASS
11N20SISO	LCH	17.55	17.602	PASS
11N20SISO	MCH	16.67	17.617	PASS
11N20SISO	HCH	17.54	17.641	PASS
11N40SISO	LCH	35.14	35.802	PASS
11N40SISO	MCH	35.07	35.893	PASS
11N40SISO	HCH	35.08	35.711	PASS

Test Graph

