

TEST REPORT

FCC ID: 2AJ3G-RSCH281SCG

Product: Wireless Camera

Model No.: RS-CH281SCG-W-36W-PIR

Additional Model No.: RS-CH281SC-W-36W-D,

RS-CHxxxzzz-zzz-xxzz-zzz(x = 0.9 or blank; y = A-Z; z = A-Z or blank;)

Trade Mark: N/A

Report No.: TCT181024E014

Issued Date: Nov. 02, 2018

Issued for:

Zhuhai RaySharp Technology Co., Ltd NO.100 OF TECHNOLOGY ROAD 6, NATIONAL HI-TECH ZONE, ZHUHAI, China

Issued By:

Shenzhen Tongce Testing Lab.

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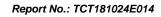




TABLE OF CONTENTS

1.	Test Certification	3
2.	Test Result Summary	
3.	EUT Description	5
4.	General Information	7
	4.1. Test environment and mode	7
	4.2. Description of Support Units	9
5.	Facilities and Accreditations	
	5.1. Facilities	10
	5.2. Location	10
	5.3. Measurement Uncertainty	10
6.	Test Results and Measurement Data	11
	6.1. Antenna requirement	11
	6.2. Conducted Emission	12
	6.3. Maximum Conducted (Average) Output Power	
	6.4. Emission Bandwidth	17
	6.5. Power Spectral Density	18
	6.6. Conducted Band Edge and Spurious Emission Measurement	
	6.7. Radiated Spurious Emission Measurement	21
Α	ppendix A: Test Result of Conducted Test	
Α	ppendix B: Photographs of Test Setup	
Α	ppendix C: Photographs of EUT	



1. Test Certification

Product:	Wireless Camera
Model No.:	RS-CH281SCG-W-36W-PIR
Additional Model:	RS-CH281SC-W-36W-D, RS-CHxxxzzz-zzz-xxzz-zzz-zzz(x= 0-9 or blank; y=A-Z; z = A-Z or blank;)
Trade Mark:	N/A
Applicant:	Zhuhai RaySharp Technology Co., Ltd
Address:	NO.100 OF TECHNOLOGY ROAD 6, NATIONAL HI-TECH ZONE, ZHUHAI, China
Manufacturer:	Zhuhai RaySharp Technology Co., Ltd
Address:	NO.100 OF TECHNOLOGY ROAD 6, NATIONAL HI-TECH ZONE, ZHUHAI, China
Date of Test:	Oct. 25, 2018 – Nov. 01, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

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:

Jerry Xie

Jerry Xie

Reviewed By:

Beryl Zhao

Approved By:

Date: Nov. 01, 2018

Date: Nov. 02, 2018

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:	Wireless Camera		
Model No.:	RS-CH281SCG-W-36W-PIR		
Additional Model:	RS-CH281SC-W-36W-D, RS-CHxxxzzz-zzz-xxzz-zzz-zzz(x= 0-9 or blank; y=A-Z; z = A-Z or blank;)		
Trade Mark:	N/A		
Hardware Version:	RS-CM-213C		
Software Version:	10		
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:	External Antenna		
Antenna Gain:	5dBi		
Power Supply:	AC 120V/60Hz		
AC adapter:	Adapter Information: Model: FJ-SW1202000U Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 12V, 2000mA		
Remark:	All models above are identical in interior structure, electrical circuits and components, and just colors, model names and customer names are different for the marketing requirement.		



Operation Frequency each of channel For 802.11b/g/n(HT20)

-) [7			3.11(11111)		
	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		('C')

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz	(S-1)	
	•	5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

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. General 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. For the full battery state and The output power to the maximum state.

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

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2. According to ANSI C63.10 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.



Page 8 of 88

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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
/	/	/	1	/

Note:

- 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.



Page 9 of 88

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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

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

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

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:

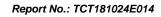
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WIFI antenna is external antenna, and the best case gain of the antenna is 5dBi.



Page 11 of 88





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207					
Test Method:	ANSI C63.10:2013	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	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	g with modulation					
Test Procedure:	 The E.U.T is 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						



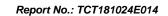
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Test Receiver	R&S	ESPI	101401	Aug. 27, 2019	
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 27, 2019	
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Aug. 27, 2019	
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).

Page 13 of 88

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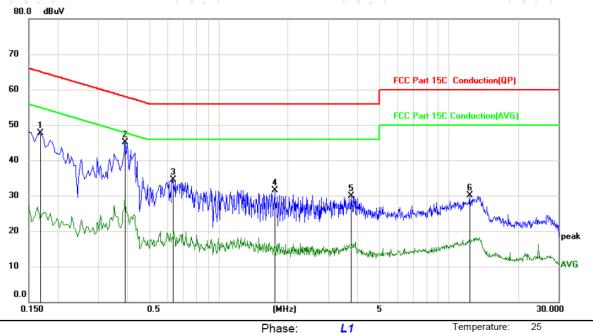




6.2.3. Test data

Please refer to following diagram for individual

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



Limit: FCC Part 15C Conduction(QP)

Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1680	37.40	10.22	47.62	65.06	-17.44	peak		
2	*	0.3930	34.97	10.22	45.19	58.00	-12.81	peak		
3		0.6314	24.20	10.23	34.43	56.00	-21.57	peak		
4		1.7564	21.12	10.43	31.55	56.00	-24.45	peak		
5		3.7680	19.46	10.47	29.93	56.00	-26.07	peak		
6		12.3270	19.42	10.63	30.05	60.00	-29.95	peak		
	1 2 3 4 5	3 4 5	MHz 1 0.1680 2 * 0.3930 3 0.6314 4 1.7564 5 3.7680	No. Mk. Freq. MHz Level dBuV 1 0.1680 37.40 2 * 0.3930 34.97 3 0.6314 24.20 4 1.7564 21.12 5 3.7680 19.46	No. Mk. Freq. MHz Level dBuV Factor 1 0.1680 37.40 10.22 2 * 0.3930 34.97 10.22 3 0.6314 24.20 10.23 4 1.7564 21.12 10.43 5 3.7680 19.46 10.47	No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV 1 0.1680 37.40 10.22 47.62 2 * 0.3930 34.97 10.22 45.19 3 0.6314 24.20 10.23 34.43 4 1.7564 21.12 10.43 31.55 5 3.7680 19.46 10.47 29.93	No. Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV dBuV dBuV 1 0.1680 37.40 10.22 47.62 65.06 2 * 0.3930 34.97 10.22 45.19 58.00 3 0.6314 24.20 10.23 34.43 56.00 4 1.7564 21.12 10.43 31.55 56.00 5 3.7680 19.46 10.47 29.93 56.00	No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB 1 0.1680 37.40 10.22 47.62 65.06 -17.44 2 * 0.3930 34.97 10.22 45.19 58.00 -12.81 3 0.6314 24.20 10.23 34.43 56.00 -21.57 4 1.7564 21.12 10.43 31.55 56.00 -24.45 5 3.7680 19.46 10.47 29.93 56.00 -26.07	No. Mk. Freq. Level Factor ment Limit Over 1 0.1680 37.40 10.22 47.62 65.06 -17.44 peak 2 * 0.3930 34.97 10.22 45.19 58.00 -12.81 peak 3 0.6314 24.20 10.23 34.43 56.00 -21.57 peak 4 1.7564 21.12 10.43 31.55 56.00 -24.45 peak 5 3.7680 19.46 10.47 29.93 56.00 -26.07 peak	No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dB Detector Comment 1 0.1680 37.40 10.22 47.62 65.06 -17.44 peak 2 * 0.3930 34.97 10.22 45.19 58.00 -12.81 peak 3 0.6314 24.20 10.23 34.43 56.00 -21.57 peak 4 1.7564 21.12 10.43 31.55 56.00 -24.45 peak 5 3.7680 19.46 10.47 29.93 56.00 -26.07 peak

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

AVG =average

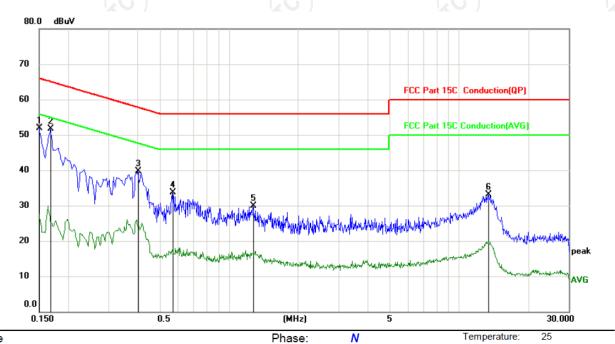
^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



Humidity:



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



Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz

_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
_			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
_	1		0.1500	41.62	10.23	51.85	66.00	-14.15	peak		
	2	*	0.1680	41.51	10.22	51.73	65.06	-13.33	peak		
	3		0.4020	29.56	10.22	39.78	57.81	-18.03	peak		,
_	4		0.5685	23.47	10.23	33.70	56.00	-22.30	peak		
_	5		1.2750	19.61	10.38	29.99	56.00	-26.01	peak		
_	6		13.3710	22.45	10.68	33.13	60.00	-26.87	peak		

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

AVG =average

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



6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)			
Test Method:	KDB 558074			
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 v04. 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			

6.3.2. Test Instruments

	RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 27, 2019		
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Aug. 27, 2019		
Antenna Connector	тст	RFC-01	N/A	Aug. 27, 2019		

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

Page 16 of 88



6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074					
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 v04. 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					

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 27, 2019
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Aug. 27, 2019
Antenna Connector	тст	RFC-01	N/A	Aug. 27, 2019

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

Page 17 of 88



6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
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:	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 v04 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 PASS

6.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 27, 2019	
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Aug. 27, 2019	
Antenna Connector	TCT	RFC-01	N/A	Aug. 27, 2019	

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



6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
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 Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. 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

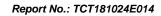


6.6.2. Test Instruments

	RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 27, 2019						
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Aug. 27, 2019						
Antenna Connector	тст	RFC-01	N/A	Aug. 27, 2019						

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







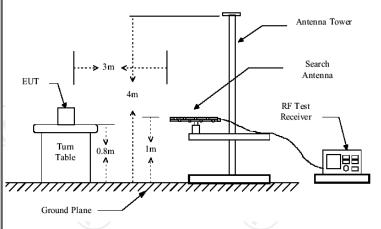
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

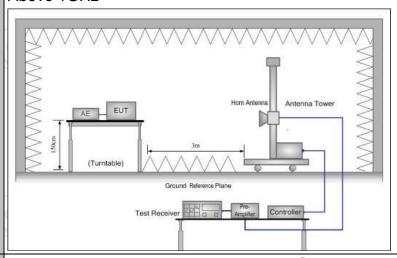
Test Method:	Test Requirement:	FCC Part15	C Section	n 15.209				
Measurement Distance: 3 m Horizontal & Vertical	Test Method:	ANSI C63.10	D: 2013	(0)		((0)	
Antenna Polarization: Horizontal & Vertical	Frequency Range:	9 kHz to 25 (GHz					
Part	Measurement Distance:	3 m						
Frequency	Antenna Polarization:	Horizontal &	Vertical		(,C)			
Receiver Setup: SkHz- 150kHz	Operation mode:	Transmitting	mode wi	th modulat	ion			
150kHz-30MHz						Oua		
30MHz-1GHz	Receiver Setup:	150kHz-						
Receiver Peak 1MHz 10Hz Average Value	·	30MHz-1GHz	Quasi-pea	k 100KHz		1		
Frequency		Above 1GHz						
Computer Computer			Peak	1MHz	10Hz	Ave	erage Value	
D.490-1.705 24000/F(KHz) 30		Frequen	псу		-			
1.705-30 30 30 30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Above 960 500 3 Average Above 1GHz 500 3 Average 5000 3 Peak Test setup:				2400/F(I	KHz)			
Section Sect		A)			(KHz)			
Receiver Receiver								
Limit: 216-960								
Above 960 500 3 Frequency Field Strength (microvolts/meter) Detector (meters) Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Test setup:	Limit:							
Frequency Field Strength (microvolts/meter) Distance (meters) Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Test setup:								
Frequency Field Strength (microvolts/meter) Distance (meters) Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Test setup:			(,C))					
Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver		Frequency		-	Distan	се	Detector	
For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver Ground Plane		Above 1CH:	-	500		,	Average	
Test setup: Distance = 3m		Above IGH	_	5000	3		Peak	
	Test setup:	Dis EUT	Turn table		Pre -A	mplifier	er	





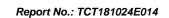


Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for





	receiving the maximum signal. The final measurement antenna elevation shall be that which 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.
	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
	4. 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.
	 5. 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 transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS





6.7.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 27, 2019
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Aug. 27, 2019
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 27, 2019
Pre-amplifier	HP	8447D	2727A05017	Aug. 27, 2019
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 27, 2019
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 27, 2019
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 27, 2019
Horn Antenna	Schwarzbeck	BBH 9170	582	Aug. 27, 2019
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Aug. 27, 2019
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Aug. 27, 2019
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Aug. 27, 2019
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Aug. 27, 2019
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

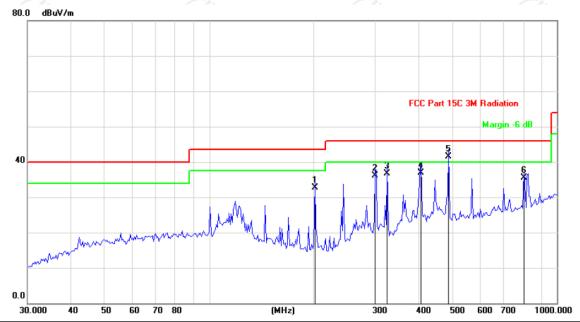
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.7.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

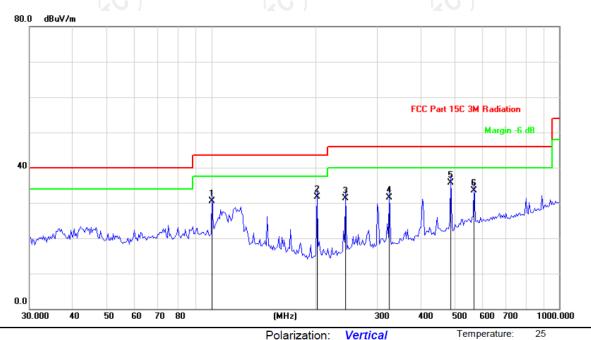


Site Polarization: Horizontal Temperature: 25 Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

-	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
K			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
) _	1		201.4539	46.07	-13.46	32.61	43.50	-10.89	QP			
_	2		300.6988	46.09	-9.90	36.19	46.00	-9.81	QP			· ·
_	3		324.8645	45.84	-9.22	36.62	46.00	-9.38	QP			
_	4		406.7820	44.33	-7.51	36.82	46.00	-9.18	QP			
_	5	*	488.3263	47.42	-5.97	41.45	46.00	-4.55	QP			
_	6		804.2523	37.28	-1.80	35.48	46.00	-10.52	QP			



Vertical:



Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
-	1		100.4712	38.46	-8.04	30.42	43.50	-13.08	QP			
-	2		201.4539	45.16	-13.46	31.70	43.50	-11.80	QP			
<	3		243.5431	43.27	-12.03	31.24	46.00	-14.76	QP			
_	4		324.8645	40.67	-9.22	31.45	46.00	-14.55	QP			
-	5	*	488.3263	41.77	-5.97	35.80	46.00	-10.20	QP			
-	6		569.9688	38.05	-4.57	33.48	46.00	-12.52	QP			

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 802.11 n(HT20)) was submitted only.





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

			Moda	iation Typo. 66	2.110						
/	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	45.74	-4.20	41.54	74.00	54.00				
	2377.38	Н	48.28	-4.10	44.18	74.00	54.00				
	2390	Н	53.31	-3.94	49.37	74.00	54.00				
	2310	V	44.49	-4.20	40.29	74.00	54.00				
	2377.38	V	54.23	-4.10	50.13	74.00	54.00				
	2390	V	55.02	-3.94	51.08	74.00	54.00				

Modulation Type: 802.11b

		IVIOGG	idiloit Type. 66	2.110								
	High 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	50.54	-3.60	46.94	74.00	54.00						
2487.09	Н	47.77	-3.50	44.27	74.00	54.00						
2500	Н	45.43	-3.34	42.09	74.00	54.00						
2483.5	V	54.62	-3.60	51.02	74.00	54.00						
2487.09	V	47.58	-3.50	44.08	74.00	54.00						
2500	V	42.14	-3.34	38.80	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	42.56	-4.20	38.36	74.00	54.00					
2388.96	Ι	50.78	-4.12	46.66	74.00	54.00					
2390	Ι	53.32	-3.94	49.38	74.00	54.00					
2310	V	45.96	-4.20	41.76	74.00	54.00					
2388.96	V	48.84	-4.12	44.72	74.00	54.00					
2390	V	54.12	-3.94	50.18	74.00	54.00					

Modulation Type: 802.11g

				.a	9						
	High channel: 2462 MHz										
F	requency (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	53.86	-3.60	50.26	74.00	54.00				
	2487.59	Н	50.25	-3.52	46.73	74.00	54.00				
	2500	Н	46.97	-3.34	43.63	74.00	54.00				
	2483. 5	V	51.44	-3.60	47.84	74.00	54.00				
\	2487.59	V	47.25	-3.52	43.73	74.00	54.00				
	2500	V	46.73	-3.34	43.39	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	45.42	-4.20	41.22	74.00	54.00			
	2388.01	H	54.37	-4.10	50.27	74.00	54.00			
	2390	Ι	53.91	-3.94	49.97	74.00	54.00			
	2310	V	48.48	-4.20	44.28	74.00	54.00			
	2388.01	V	54.73	-4.10	50.63	74.00	54.00			
	2390	V	55.21	-3.94	51.27	74.00	54.00			

Modulation Type: 802.11n(20MHz)

	High 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	52.33	-3.60	48.73	74.00	54.00					
2392.55	Н	51.29	-3.50	47.79	74.00	54.00					
2500	Н	47.71	-3.34	44.37	74.00	54.00					
2483. 5	V	53.05	-3.60	49.45	74.00	54.00					
2392.55	V	50.93	-3.50	47.43	74.00	54.00					
2500	V	48.47	-3.34	45.13	74.00	54.00					

Modulation Type: 802.11n(40MHz)

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(
	Low channel: 2422 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	50.14	-4.20	45.94	74.00	54.00						
2387.85	Н	55.87	-4.10	51.77	74.00	54.00						
2390	Н	52.92	-3.94	48.98	74.00	54.00						
2310	V	51.23	-4.20	47.03	74.00	54.00						
2389.98	V	50.12	-4.10	46.02	74.00	54.00						
2390	V	49.45	-3.94	45.51	74.00	54.00						

Modulation Type: 802.11n(40MHz)

		High	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	52.38	-3.60	48.78	74.00	54.00
2493.51	Н	54.14	-3.50	50.64	74.00	54.00
2500	Н	49.53	-3.34	46.19	74.00	54.00
2493.51	V	54.89	-3.60	51.29	74.00	54.00
2489.36	V	52.07	-3.46	48.61	74.00	54.00
2500	V	50.62	-3.34	47.28	74.00	54.00

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





Above 1GHz

Modulation	Type:	802.11b
Modalation	· ypu.	002.110

			L	ow channe	l: 2412 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	H	47.15	7	0.75	47.90		74	54	-6.10
7236	CO H	39.47	1.0	9.87	49.34	(O -)	74	54	-4.66
	H								
4824	V	47.23		0.75	47.98		74	54	-6.02
7236	V	38.59		9.87	48.46		74	54	-5.54
()	V	(,G)		(, C			(, C, `)		(, (

			M	iddle chann	el: 2437MF	łz			
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	H	48.06	14	0.97	49.03	() -J-	74	54	-4.97
7311	H	37.95		9.83	47.78		74	54	-6.22
	Н								
4874	V	46.72		0.97	47.69		74	54	-6.31
7311	V	40.01		9.83	49.84		74	54	-4.16
	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)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)			
4924	Н	47.53		1.18	48.71		74	54	-5.29			
7386	Н	37.48		10.07	47.55		74	54	-6.45			
	Н	-					-					
4924	V	46.84		1.18	48.02		74	54	-5.98			
7386	V	37.19		10.07	47.26		74	54	-6.74			
	V											

- 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.





	Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)		
4824	Н	48.14		0.75	48.89		74	54	-5.11		
7236	Н	39.29		9.87	49.16		74	54	-4.84		
	Н		7-					-/-			
	(()		70.			(O)		(20)			
4824	V	47.63		0.75	48.38		74	54	-5.62		
7236	V	38.74		9.87	48.61		74	54	-5.39		
	V										

	Middle channel: 2437MHz										
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)	AV limit (dBµV/m)	Margin (dB)		
4874	Н	48.31		0.97	49.28		74	54	-4.72		
7311	Ξ	39.04		9.83	48.87	-1-	74	54	-5.13		
	H 2		120	/		7		775	/		
4874	V	47.52		0.97	48.49		74	54	-5.51		
7311	V	40.34		9.83	50.17		74	54	-3.83		
	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)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Н	47.19		1.18	48.37	74	74	54	-5.63		
7386	Н	39.05		10.07	49.12	-/-	74	54	-4.88		
	Н										
4924	V	47.45		1.18	48.63		74	54	-5.37		
7386	V	39.22		10.07	49.29		74	54	-4.71		
<i>/</i> /	V	X22 /			7 /		X-22 /		📉		

- 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)

	Low channel: 2412 MHz										
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	Н	48.08		0.75	48.83		74	54	-5.17		
7236	Н	40.21		9.87	50.08		74	54	-3.92		
	H		-/-					-/-			
	40.)		(20)			(0,0)		(20)			
4824	V	47.39	-32	0.75	48.14		74	54	-5.86		
7236	V	39.07		9.87	48.94		74	54	-5.06		
	V										

	Middle channel: 2437MHz										
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)	AV limit (dBµV/m)	Margin (dB)		
4874	Н	48.15		0.97	49.12		74	54	-4.88		
7311	Ŧ	39.24		9.83	49.07		74	54	-4.93		
	H		140	/		(O-1-		750			
4874	V	47.22		0.97	48.19		74	54	-5.81		
7311	V	38.31		9.83	48.14		74	54	-5.86		
	V								(

			Н	ligh channe	l: 2462 MH	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)
4924	Н	48.66		1.18	49.84	74	74	54	-4.16
7386	Н	40.05		10.07	50.12	-/-	74	54	-3.88
	Н								
4924	V	46.27		1.18	47.45		74	54	-6.55
7386	V	39.42		10.07	49.49		74	54	-4.51
7 /	V	<u> </u>)				

- 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 (HT40)

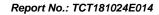
			L	ow channe	I: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	45.69		0.66	46.35		74	54	-7.65
7266	H	38.75	(A)	9.5	48.25		74	54	-5.75
()	C H		[C]		([- C]	
*									
4824	V	44.58		0.66	45.24		74	54	-8.76
7236	V	35.34		9.5	44.84		74	54	-9.16
	V	7					77		

			M	iddle chann	el: 2437MF	Ηz			
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)	AV limit (dBµV/m)	Margin (dB)
4874	Ξ	42.74		0.99	43.73		74	54	-10.27
7311	7	34.25	120	9.85	44.10	(O-1-	74	54	-9.90
	Н								
			,			r	r		
4874	V	43.94		0.99	44.93		74	54	-9.07
7311	V	37.52		9.85	47.37		74	54	-6.63
) ·	V	3		🔏) `)		(,C)		🔏

	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)	AV limit (dBµV/m)	Margin (dB)
4904	Н	45.12		1.33	46.45	-/-	74	54	-7.55
7356	H	36.39		10.22	46.61	1	74	54	-7.39
	Н								
4904	V	43.68		1.33	45.01		74	54	-8.99
7356	V	36.22		10.22	46.44		74	54	-7.56
	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.





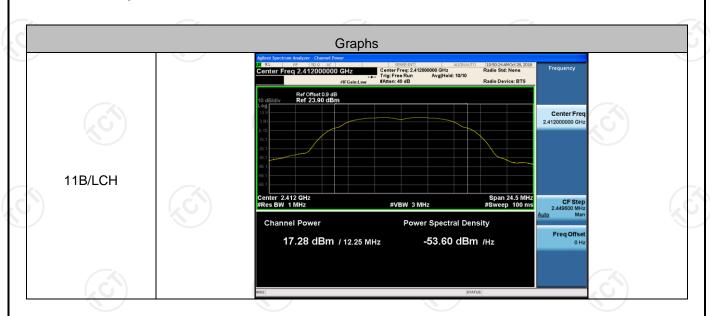


Appendix A: Test Result of Conducted Test Conducted Average Output Power

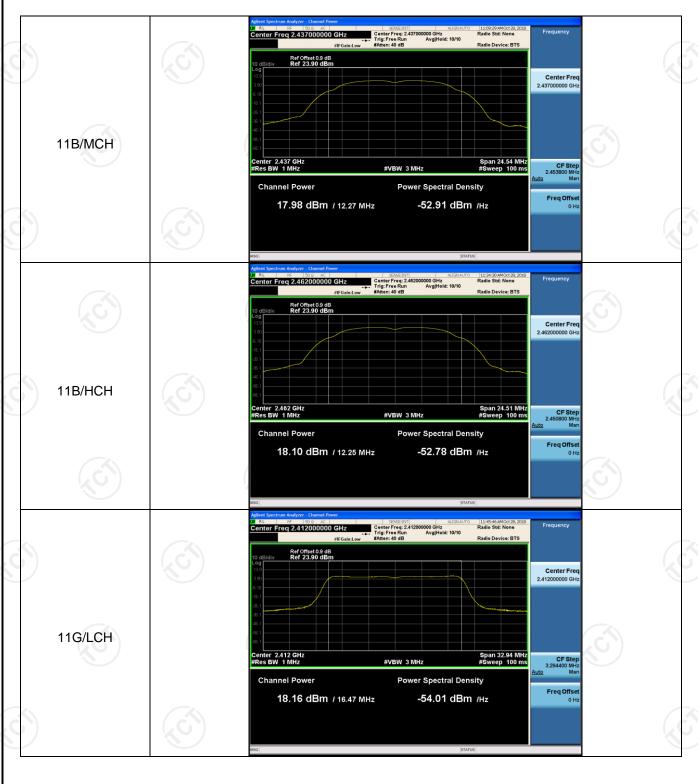
Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	17.28	PASS
11B	MCH	17.98	PASS
11B	НСН	18.10	PASS
11G	LCH	18.16	PASS
11G	MCH	18.62	PASS
11G	нсн	18.75	PASS
11N20SISO	LCH	18.31	PASS
11N20SISO	MCH	18.70	PASS
11N20SISO	HCH	18.77	PASS
11N40SISO	LCH	15.96	PASS
11N40SISO	MCH	17.06	PASS
11N40SISO	HCH	17,11	PASS

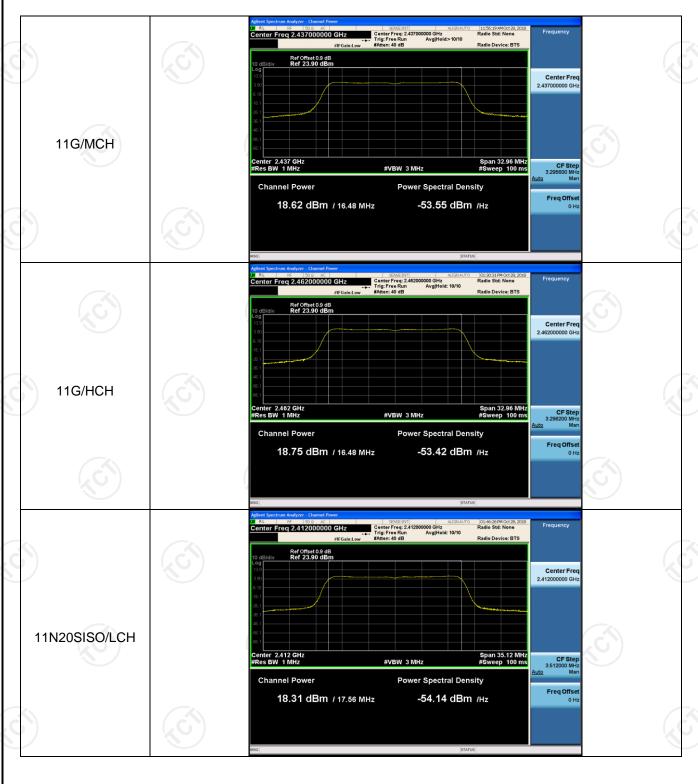
Test Graph



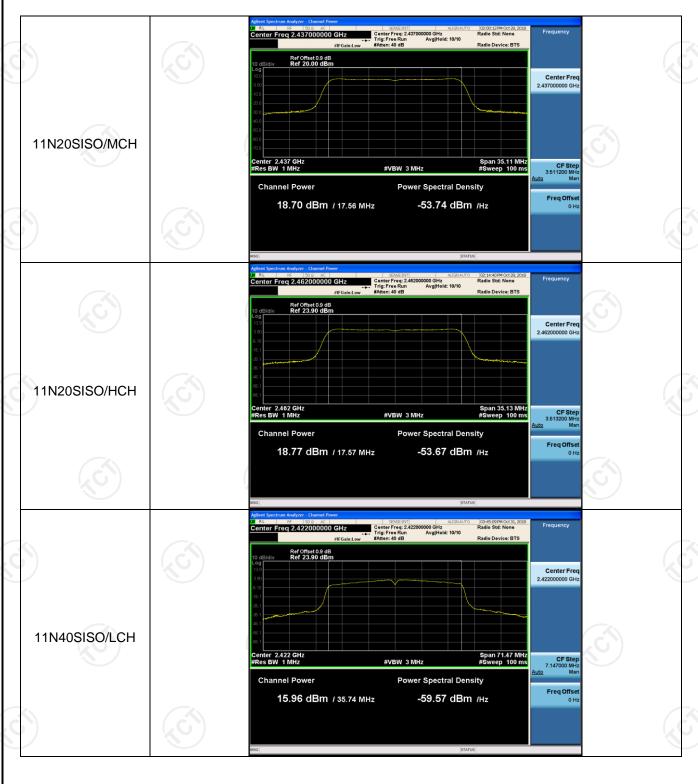




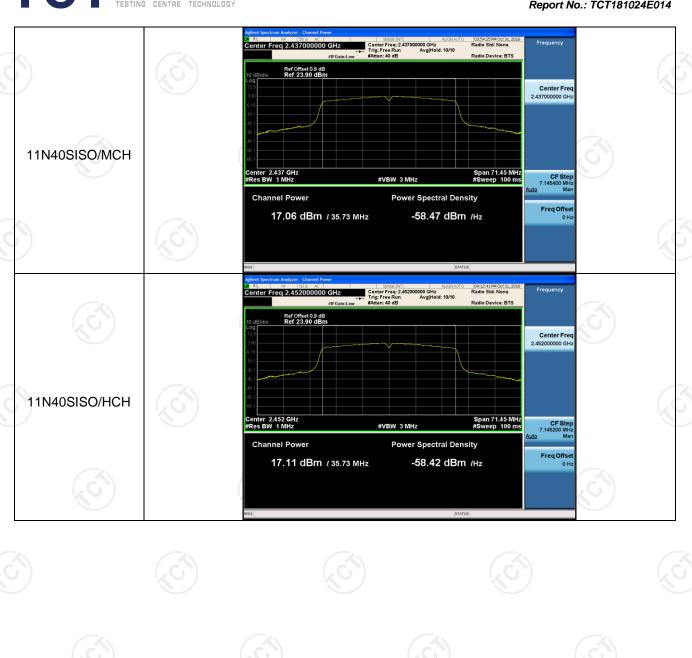












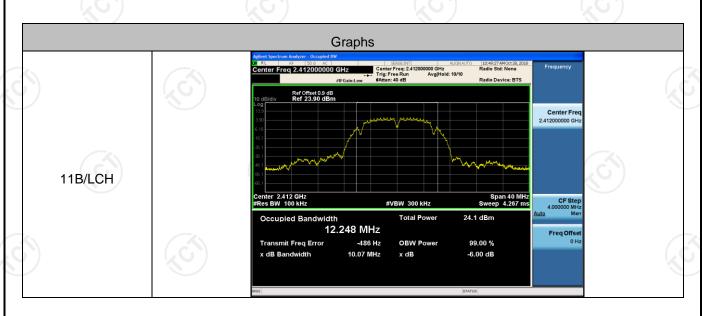


6dB Occupied Bandwidth

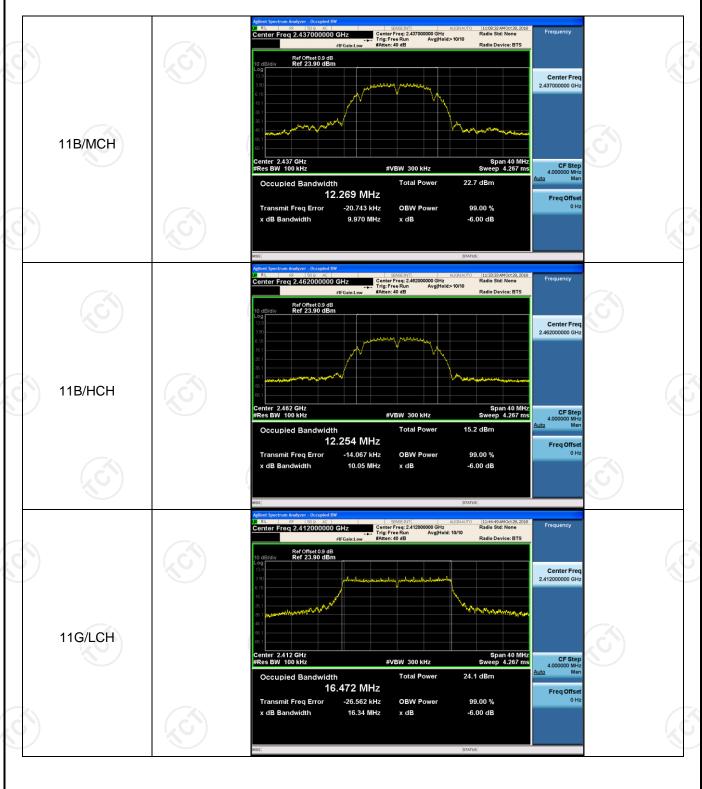
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	10.07	12.248	PASS
11B	MCH	9.970	12.269	PASS
11B	HCH	10.05	12.254	PASS
11G	LCH	16.34	16.472	PASS
11G	МСН	16.34	16.478	PASS
11G	HCH	16.35	16.481	PASS
11N20SISO	LCH	17.10	17.560	PASS
11N20SISO	MCH	16.99	17.556	PASS
11N20SISO	HCH	17.03	17.566	PASS
11N40SISO	LCH	33.78	35.735	PASS
11N40SISO	MCH	33.78	35.727	PASS
11N40SISO	НСН	35.01	35.726	PASS

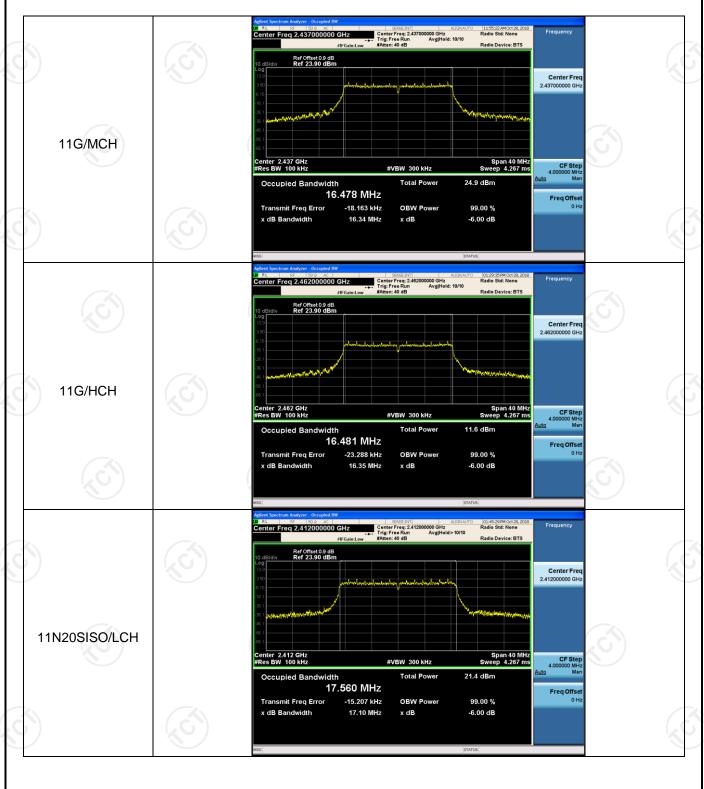
Test Graph



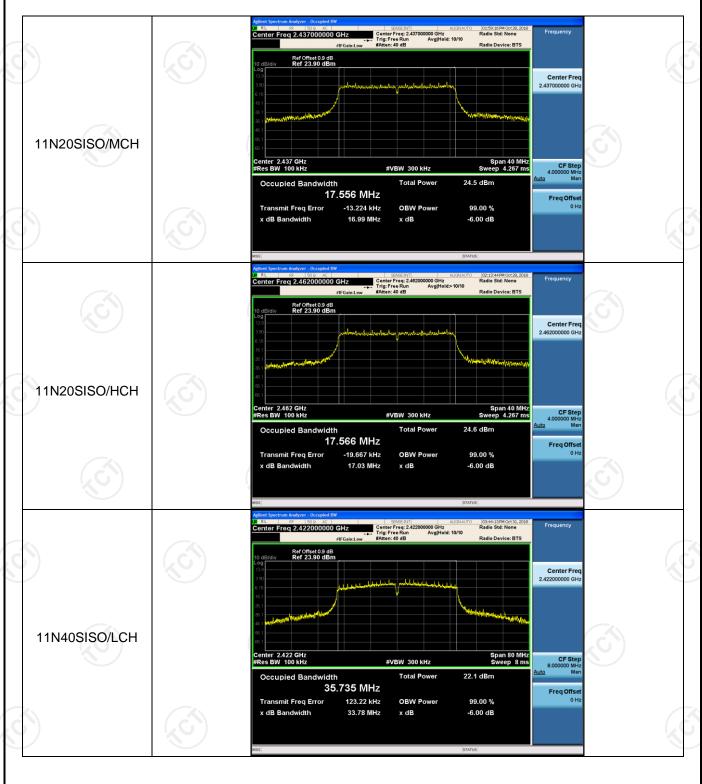






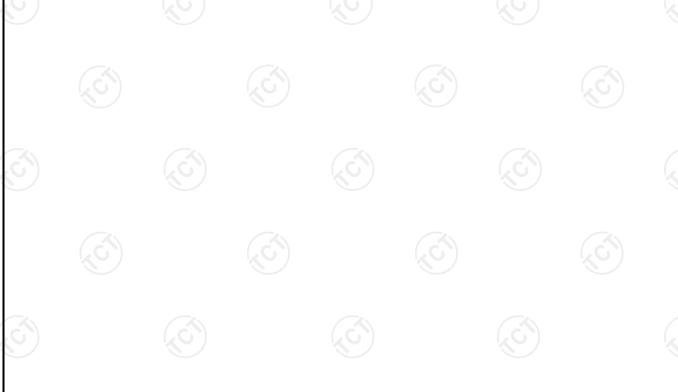












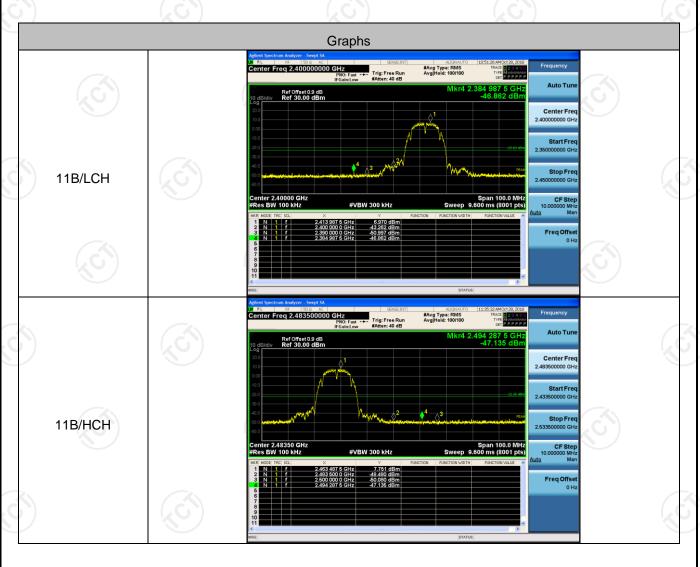


Band-edge for RF Conducted Emissions

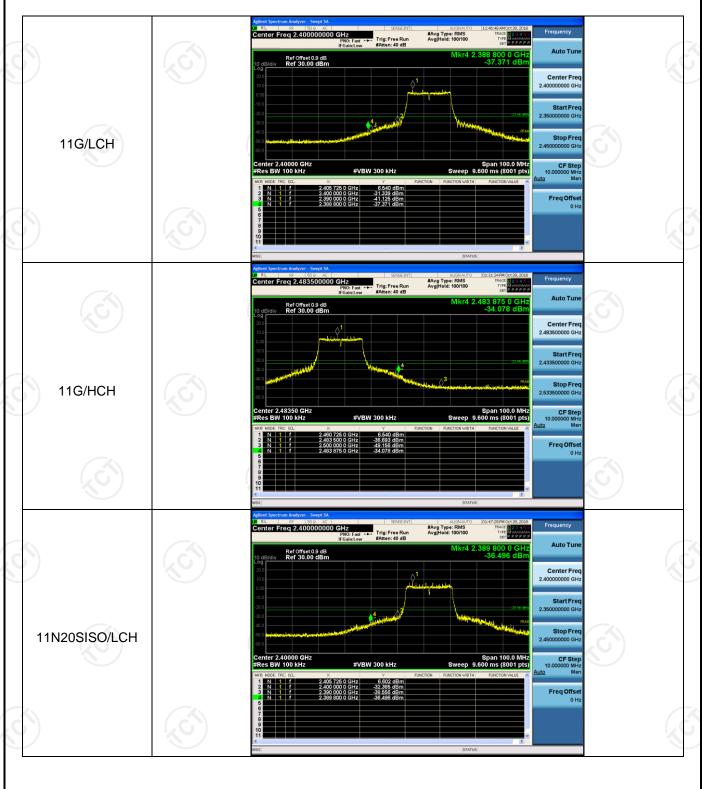
Result Table

Mode	Channel	Carrier Power [dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.970	-46.862	-23.03	PASS
11B	HCH	7.751	-47.135	-22.25	PASS
11G	LCH	6.540	-37.371	-23.46	PASS
11G	HCH	6.540	-34.078	-23.46	PASS
11N20SISO	LCH	6.602	-36.496	-23.40	PASS
11N20SISO	HCH	7.515	-32.617	-22.49	PASS
11N40SISO	LCH	3.024	-34.857	-26.98	PASS
11N40SISO	HCH	4.219	-35.830	-25.78	PASS

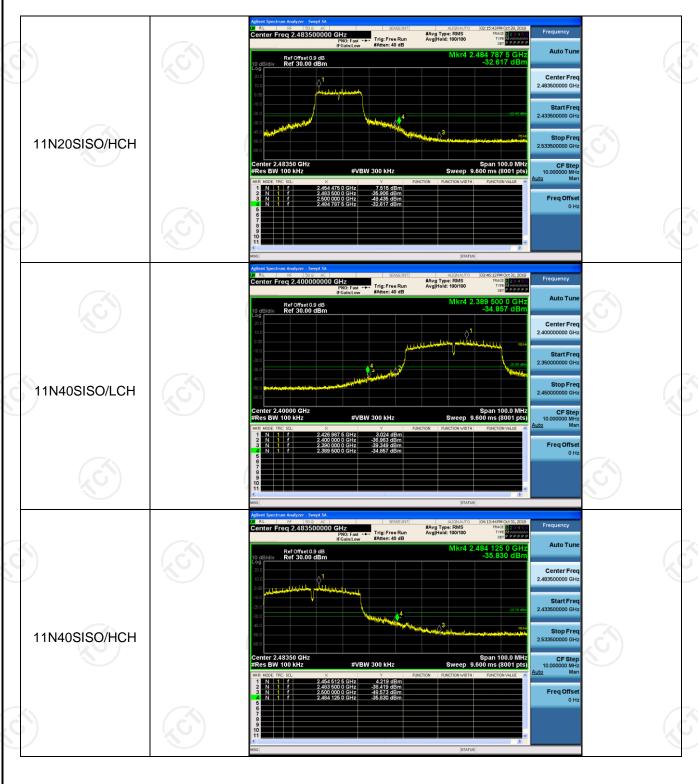
Test Graph













RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]		Puw [dBm]	Verdict
11B	LCH	6.871		<limit< td=""><td>PASS</td></limit<>	PASS
11B	MCH	7.531	(YO.)	<limit< td=""><td>PASS</td></limit<>	PASS
11B	HCH	8.103		<limit< td=""><td>PASS</td></limit<>	PASS
11G	LCH	7.332		<limit< td=""><td>PASS</td></limit<>	PASS
11G	MCH	6.785		<limit< td=""><td>PASS</td></limit<>	PASS
11G	НСН	7.759		<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	LCH	7.038		<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	MCH	7.197		<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	HCH	7.73		<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	LCH	3.038		<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	MCH	4.19		<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	НСН	4.191		<limit< td=""><td>PASS</td></limit<>	PASS

Test Graph





