TEST REPORT

FCC ID: 2ALXBPE0002

Product: e-Hub

Model No.: PE0002

Additional Model No.: N/A

Trade Mark: Royal Prestige

Report No.: TCT170421E024

Issued Date: May 18, 2017

Issued for:

Hy Cite Enterprises LLC 333 Holtzman Road Madison, WI 53713, USA

Issued By:

Shenzhen Tongce Testing Lab.

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

TEL: +86-755-27673339

FAX: +86-755-27673332

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1. Test Certification

Report No.: TCT170421E024

Product:	e-Hub
Model No.:	PE0002
Additional Model No.:	N/A
Applicant:	Hy Cite Enterprises LLC
Address:	333 Holtzman Road Madison, WI 53713, USA
Manufacturer:	NCI Technology, Inc.
Address:	108# Jiu Zhu Road, Jiang Ning Economics & Technology Development Zone Nanjing, Jiangsu Province P.R.China
Date of Test:	Apr, 22– May 17, 2017
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: Ride cheng Date: May 17, 2017

Ride Cheng

Reviewed By: Date: May 18, 2017

Joe Zhou

Approved By: Date: May 18, 2017

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

Note:

- 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:	e-Hub
Model :	PE0002
Additional Model:	N/A
Trade Mark:	Royal Prestige
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 135Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	1.5dBi
Power Supply:	Rechargeable Li-ion battery DC 3.7V

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	(C)	

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Operation Frequency each of channel For 802.11n (HT40)

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

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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. 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:

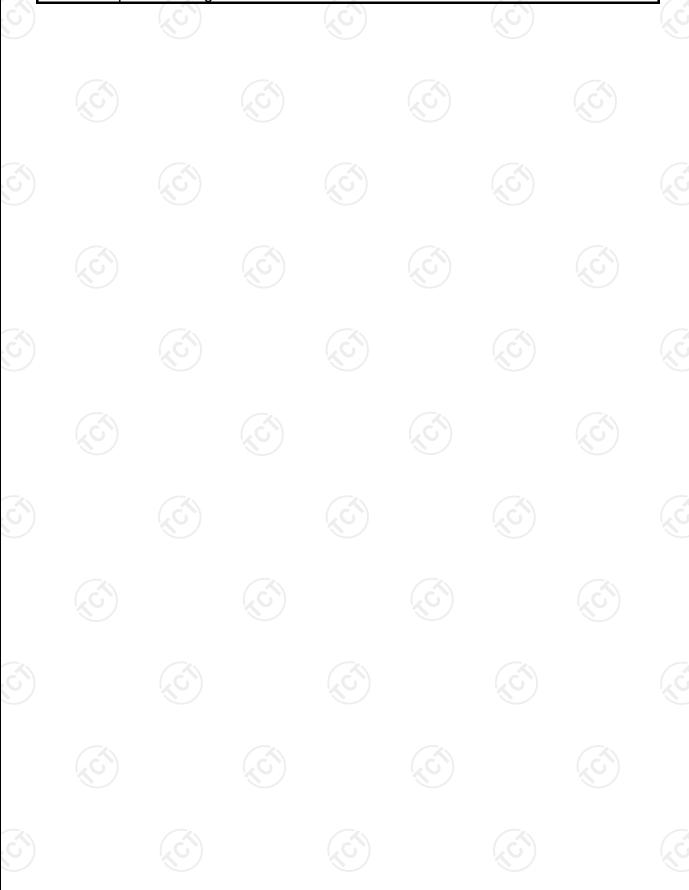
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

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.



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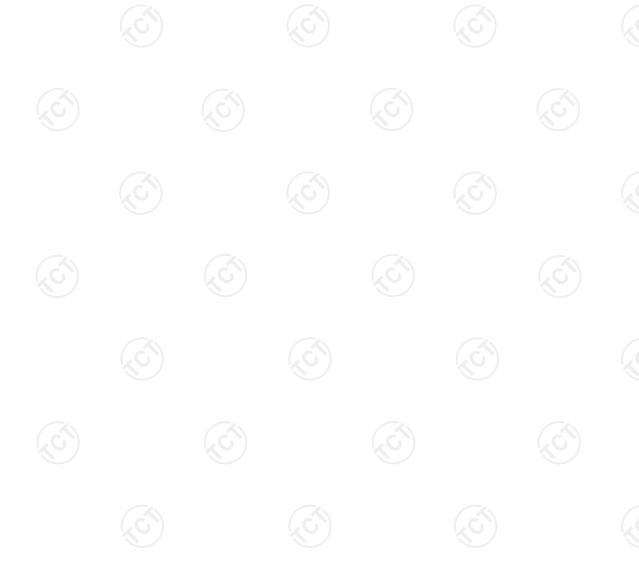
4.2. Description of Support Units

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	1	1	1	I

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.



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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.: 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

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%

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6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

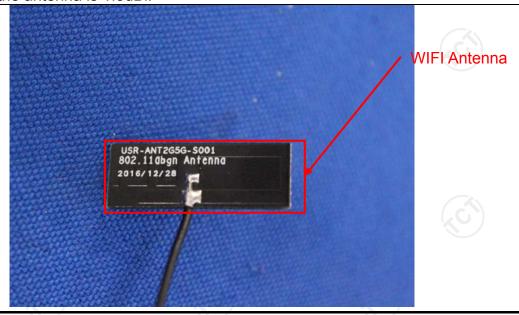
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 an internal antenna which permanently attached, and the best case gain of the antenna is 1.5dBi.



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6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	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	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (c				
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Referenc	e Plane				
Test Setup:	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization NI Test table height=0.8m	E.U.T AC power Test table/Insulation plane Remark: E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network				
Test Mode:	Charging + transmittin	g with modulation				
Test Procedure:	line impedance state provides a 50ohm/state measuring equipme 2. The peripheral device power through a Language coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interfered emission, the relative the interface cables.	 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					

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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	Aug. 11, 2017			
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017			
Coax cable (9kHz-40GHz)	TCT	CE-05	N/A	Aug. 11, 2017			
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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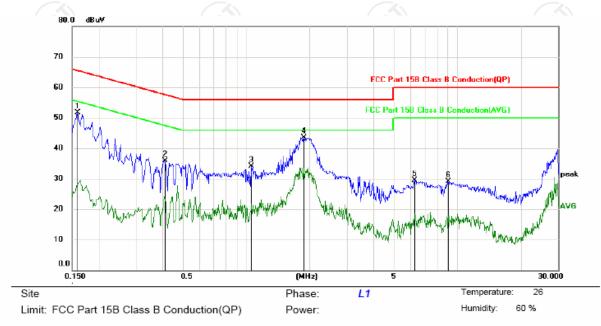
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6.2.3. Test data

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Please refer to following diagram for individual

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



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∨	dBu∀	dB	Detector	Comment
1	0.1590	40.22	11.47	51.69	65.52	-13.83	peak	
2	0.4110	24.60	11.34	35.94	57.63	-21.69	peak	
3	1.0544	22.80	11.22	34.02	56.00	-21.98	peak	
4 *	1.8779	31.96	11.63	43.59	56.00	-12.41	peak	
5	6.2835	18.71	10.81	29.52	60.00	-30.48	peak	
6	9.0465	17.84	11.21	29.05	60.00	-30.95	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 (dBµV) = Limit stated in standard

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

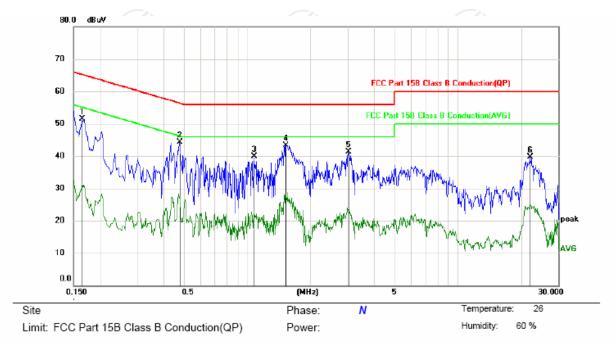
Q.P. =Quasi-Peak

AVG =average

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

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



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.1650	40.09	11.47	51.56	65.21	-13.65	peak	
2 *	0.4785	33.00	11.31	44.31	56.37	-12.06	peak	
3	1.0814	28.63	11.24	39.87	56.00	-16.13	peak	
4	1.5269	31.94	11.46	43.40	56.00	-12.60	peak	
5	3.0120	29.92	11.33	41.25	56.00	-14.75	peak	
6	22.0155	29.03	10.65	39.68	60.00	-20.32	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 (dBμV) = 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.



6.2.4. Maximum Conducted (Average) Output Power

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6.2.5. Test Specification

12.0						
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 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	R&S	FSU	200054	Aug. 11, 2017
RF cable (9kHz-40GHz)	тст	RE-06	N/A	Aug. 12, 2017
Antenna Connector	ТСТ	RFC-01	N/A	Aug. 12, 2017

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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6.2.7. Test Data

Highest

802.11b mode

Test channel Maximum Conducted Output Power (dBm) Limit (dBm) Result

Lowest 12.95 30.00 PASS

Middle 13.32 30.00 PASS

30.00

802.11g mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	10.62	30.00	PASS			
Middle	11.38	30.00	PASS			
Highest	10.18	30.00	PASS			

14.16

802.11n(H20) mode					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	10.77	30.00	PASS		
Middle	11.54	30.00	PASS		
Highest	10.32	30.00	PASS		

802.11n(H40) mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	10.16	30.00	PASS			
Middle	10.39	30.00	PASS			
Highest	10.84	30.00	PASS			

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PASS

Test plots as follows: 802.11b Modulation

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Lowest channel



Middle channel



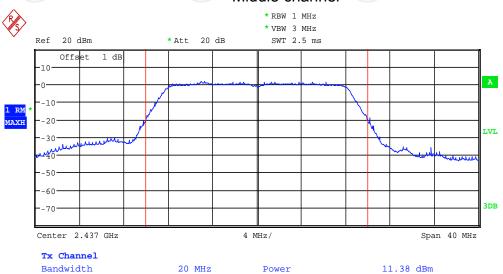




Lowest channel



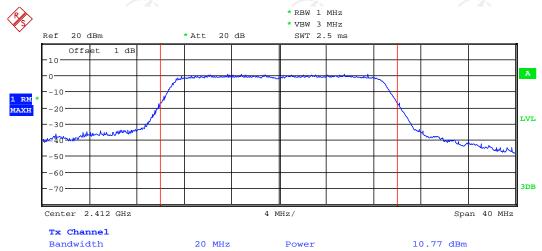
Middle channel



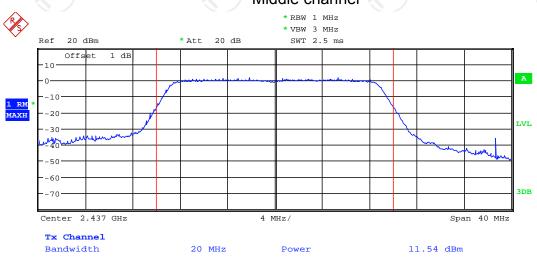


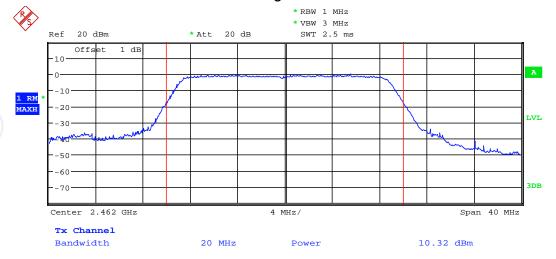


Lowest channel



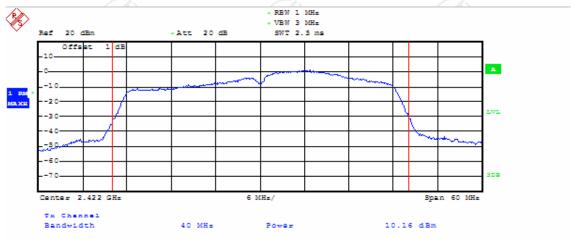
Middle channel



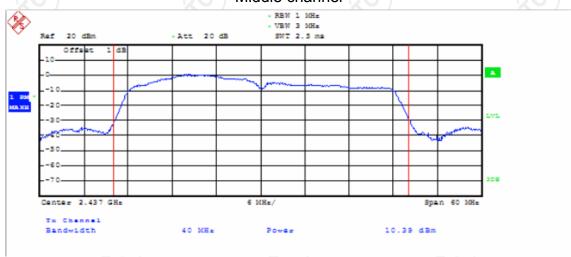


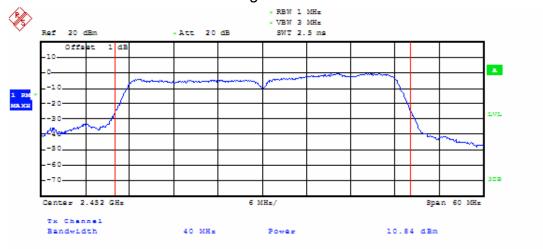


Lowest channel



Middle channel







6.3. Emission Bandwidth

6.3.1. 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 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 Du						
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017		
RF cable (9kHz-40GHz)	тст	RE-06	N/A	Aug. 12, 2017		
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017		

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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6.3.3. Test data

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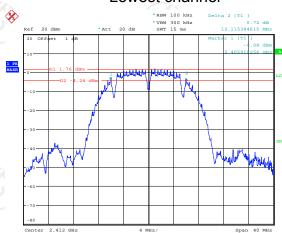
Test channel	6dB Emission Bandwidth (MHz)				
rest charmer	802.11b	802.11g	802.11n(H20)	802.11n(H40)	
Lowest	12.12	16.41	17.44	35.96	
Middle	12.12	16.41	17.56	36.00	
Highest	12.12	16.47	17.56	36.06	
Limit:		>5	500k		
Test Result:		P/	ASS		

Test plots as follows:



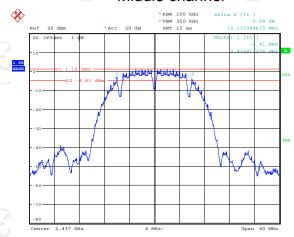


Lowest channel



Date: 17.MAY.2017 15:16:10

Middle channel



Date: 17.MAY.2017 15:17:41

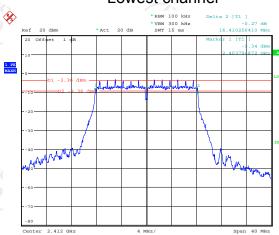
Highest channel



Date: 17.MAY.2017 15:19:26

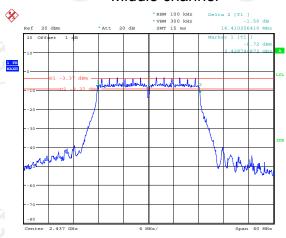


Lowest channel



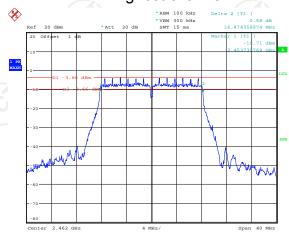
Date: 17.MAY.2017 15:22:41

Middle channel



Date: 17.MAY.2017 15:24:42

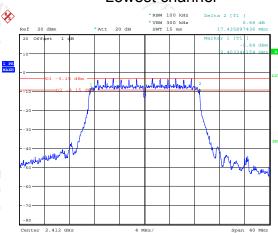
Highest channel



Date: 17.MAY.2017 15:26:16

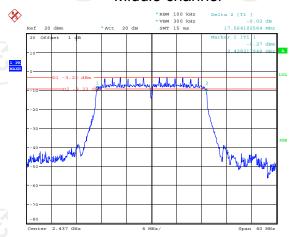


Lowest channel



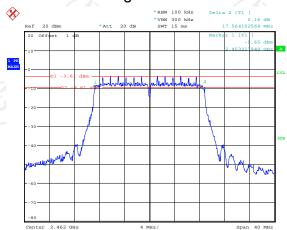
Date: 17.MAY.2017 15:28:04

Middle channel



Date: 17.MAY.2017 15:29:51

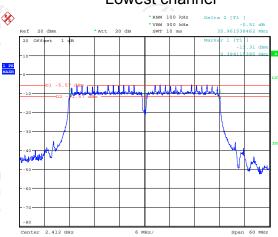
Highest channel



Date: 17.MAY.2017 15:33:35

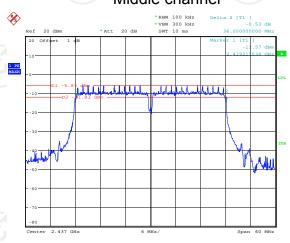


Lowest channel



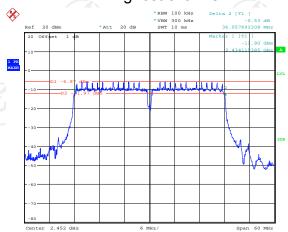
Date: 17.MAY.2017 15:48:34

Middle channel



Date: 17.MAY.2017 15:40:17

Highest channel



Date: 17.MAY.2017 15:37:39

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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			
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:	 Transmitting mode with modulation 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					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017	
RF cable (9kHz-40GHz)	ТСТ	RE-06	N/A	Aug. 12, 2017	
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017	

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



6.4.3. Test data

Report No.: TCT170421E024

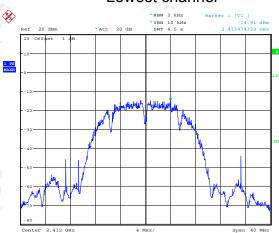
Test channel	AVG Power Spectral Density (dBm/3kHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	-14.91	-19.98	-18.97	-20.68
Middle	-15.16	-19.57	-18.71	-21.05
Highest	-15.58	-20.07	18.04	-21.42
Limit:	8dBm/3kHz			
Test Result:	PASS			

Test plots as follows:



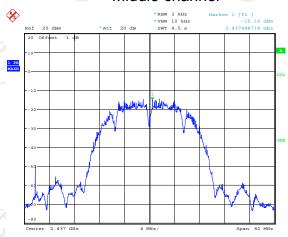


Lowest channel



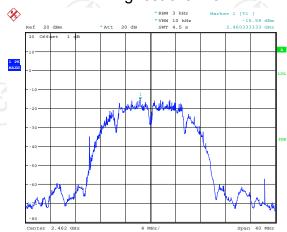
Date: 17.MAY.2017 15:54:00

Middle channel



Date: 17.MAY.2017 15:55:48

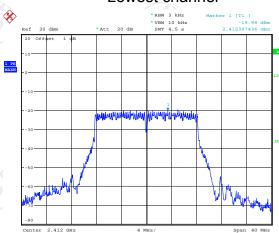
Highest channel



Date: 17.MAY.2017 15:58:04

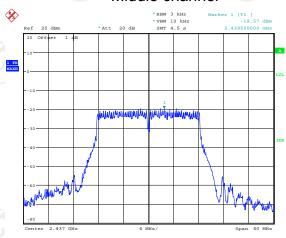


Lowest channel



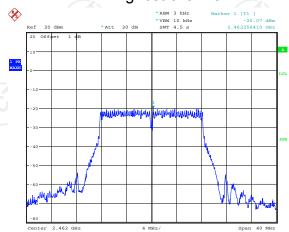
Date: 17.MAY.2017 16:06:20

Middle channel



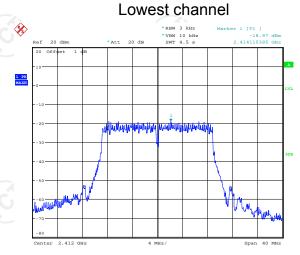
Date: 17.MAY.2017 16:07:08

Highest channel



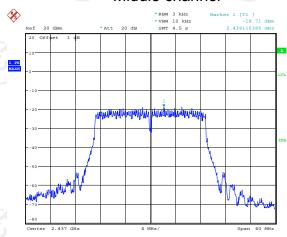
Date: 17.MAY.2017 16:10:21





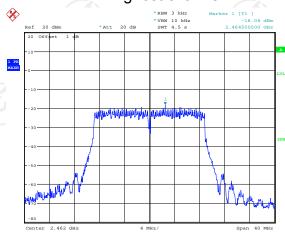
Date: 17.MAY.2017 16:11:55

Middle channel



Date: 17.MAY.2017 16:15:04

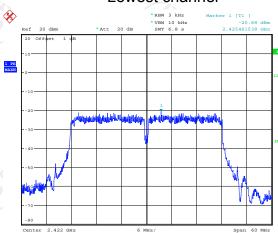
Highest channel



Date: 17.MAY.2017 16:16:15

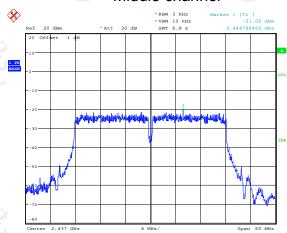


Lowest channel



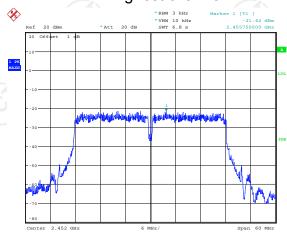
Date: 17.MAY.2017 16:21:06

Middle channel



Date: 17.MAY.2017 16:22:10

Highest channel



Date: 17.MAY.2017 16:25:21



6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. 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:	Smoothum Anabara EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 The testing follows 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. 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 			
Test Result:	against the limit line in the operating frequency band. PASS			

Report No.: TCT170421E024

6.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017	
RF cable (9kHz-40GHz)	тст	RE-06	N/A	Aug. 12, 2017	
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017	

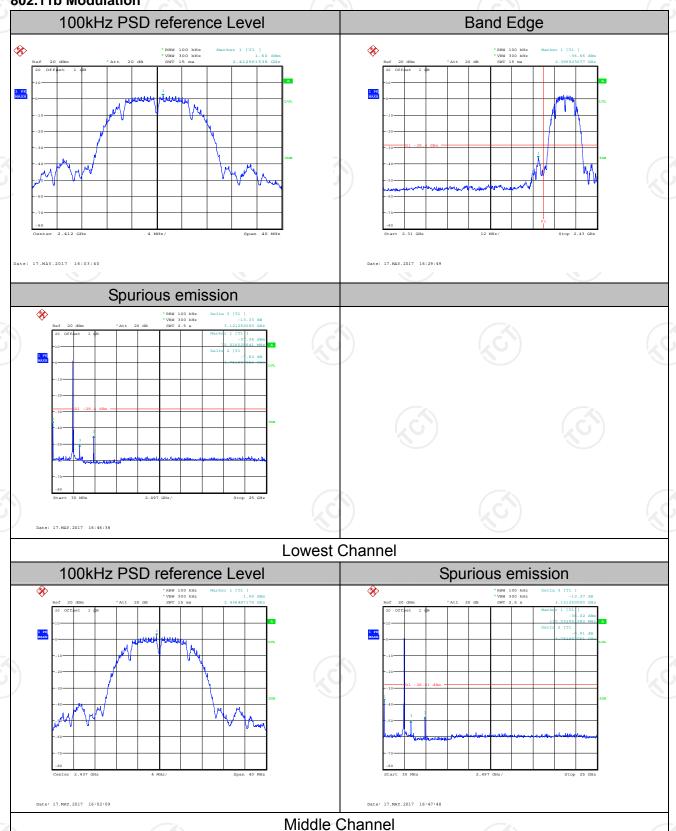
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

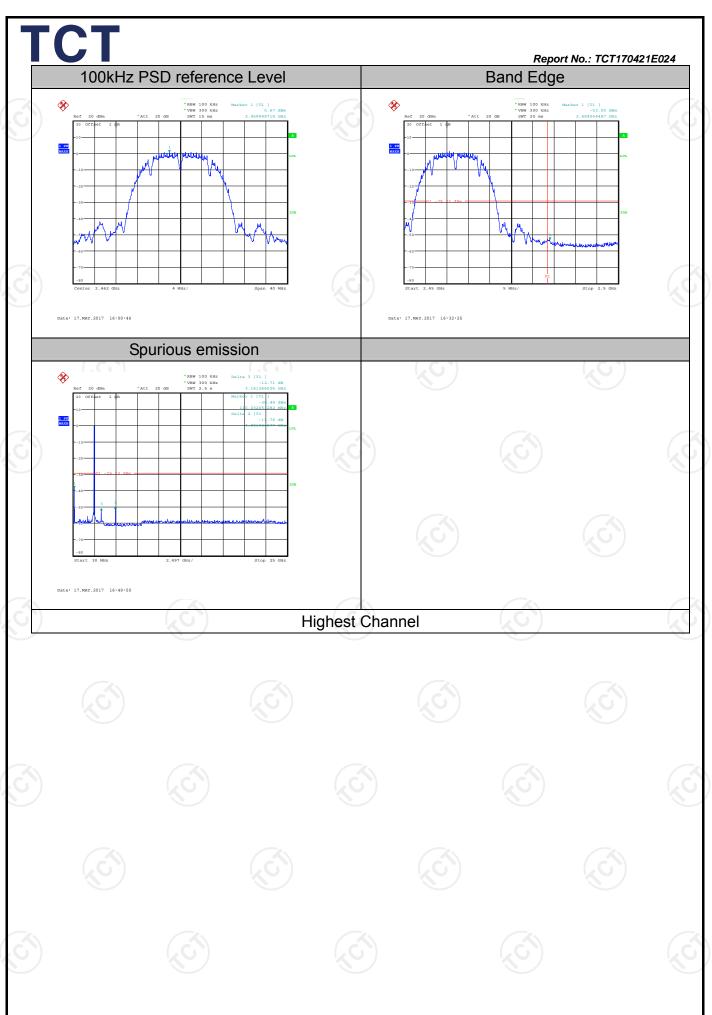


6.5.3. Test Data

Report No.: TCT170421E024

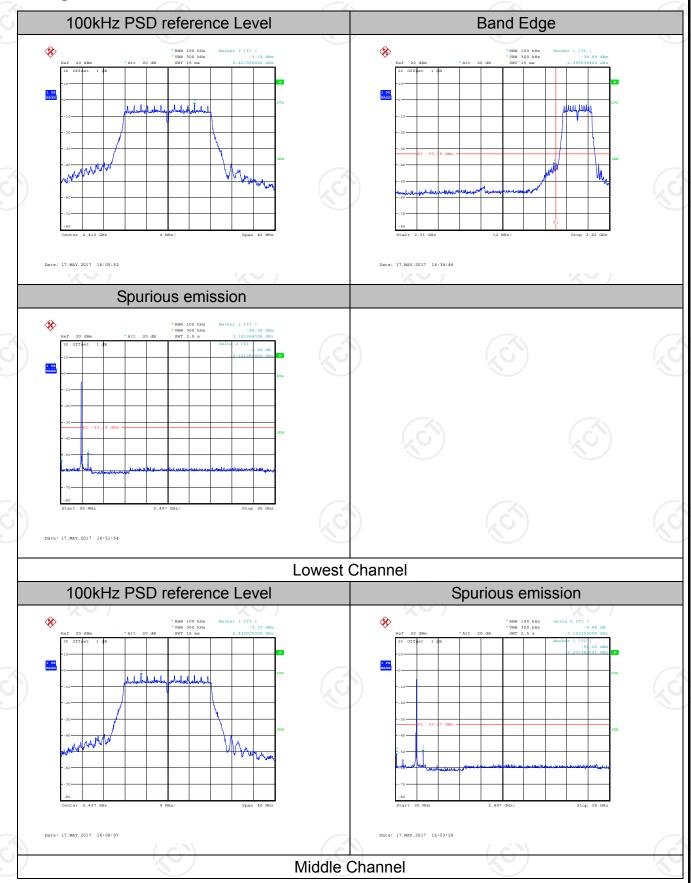
802.11b Modulation

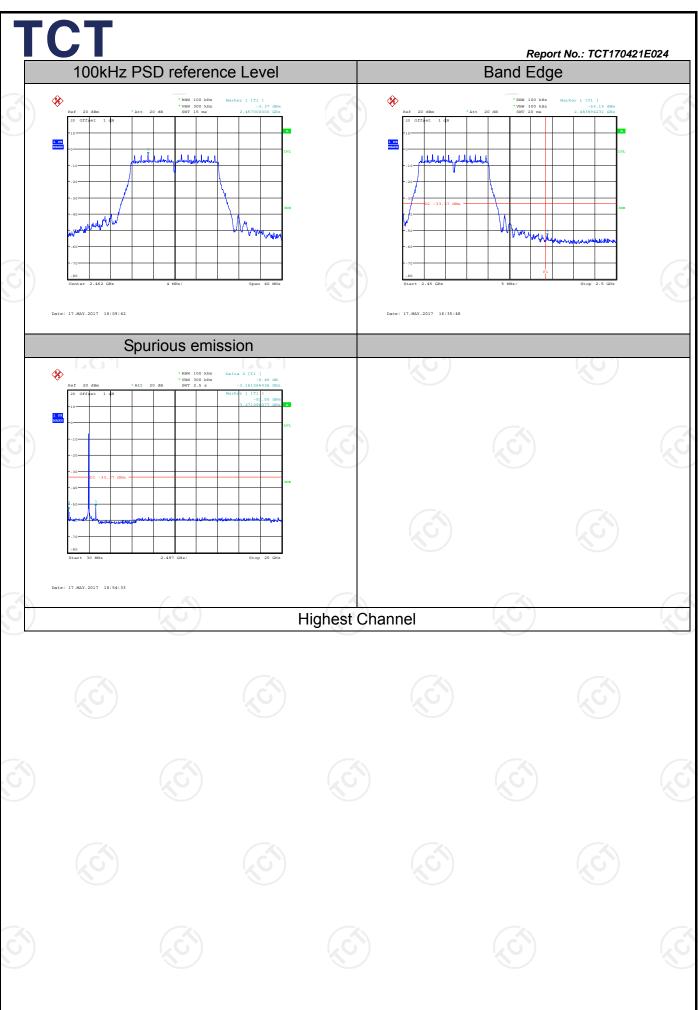




Report No.: TCT170421E024

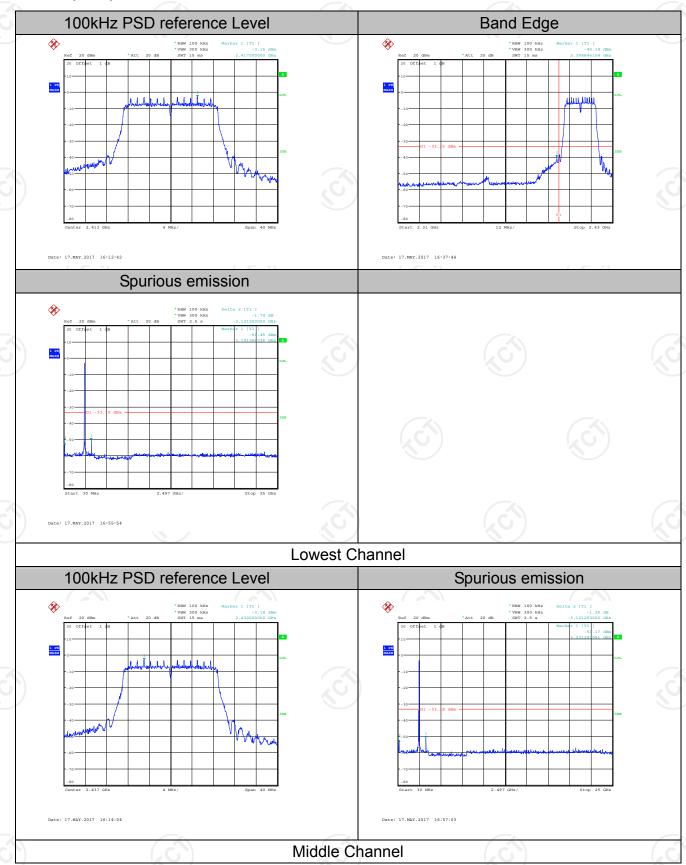
802.11g Modulation





Report No.: TCT170421E024

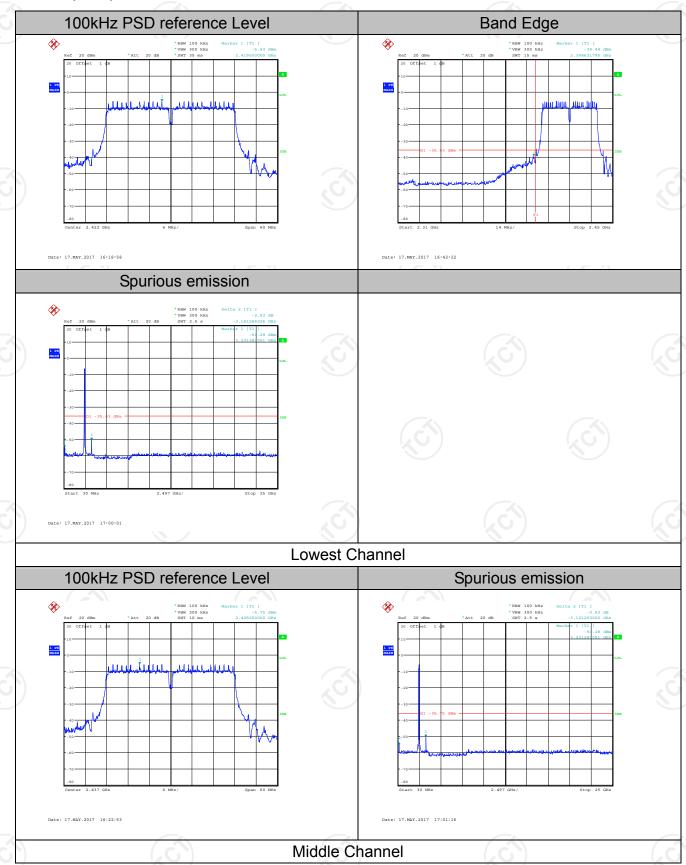
802.11n (HT20) Modulation



Report No.: TCT170421E024 100kHz PSD reference Level Band Edge **%** haladada la makaladada Date: 17.MAY.2017 16:17:29 Date: 17.MAY.2017 16:38:47 Spurious emission Date: 17.MAY.2017 16:58:14 **Highest Channel**

Report No.: TCT170421E024

802.11n (HT40) Modulation



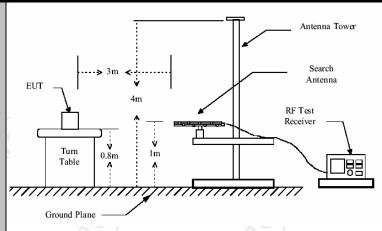
Report No.: TCT170421E024 100kHz PSD reference Level Band Edge **%** Date: 17.MAY.2017 16:24:25 Date: 17.MAY.2017 16:43:30 Spurious emission Date: 17.MAY.2017 17:05:41 **Highest Channel**

Report No.: TCT170421E024

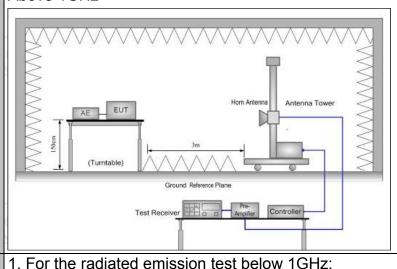
6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

Test Method:			n 15.209				
i oot metriou.	ANSI C63.10	0: 2013					
Frequency Range:	9 kHz to 25 (GHz					
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Transmitting	mode w	ith modula	ation			
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea Quasi-pea	ak 200Hz	VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value	
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-pea Peak Peak	ak 100KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Р	si-peak Value eak Value erage Value	
Limit:	0.009-0.4 0.490-1.7 1.705-3 30-88 88-216 216-96	Frequency Field (micro 0.009-0.490 240 0.490-1.705 240 1.705-30 30-88 88-216 216-960 Above 960 Frequency Field Streng (microvolts/metals)		trength ts/meter) F(KHz) F(KHz) 0 00 00 00 Measure Distar (mete	ance Detector ers) Average		
Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre-Amplifier Receiver						



Above 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

Test Procedure:

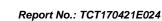
may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final

Report No.: TCT170421E024 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 $\geq 1/T$,

> 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



6.6.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Coax cable (9kHz-40GHz)	тст	RE-low-01	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-02	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-low-03	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-High-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	N/A	Aug. 12, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

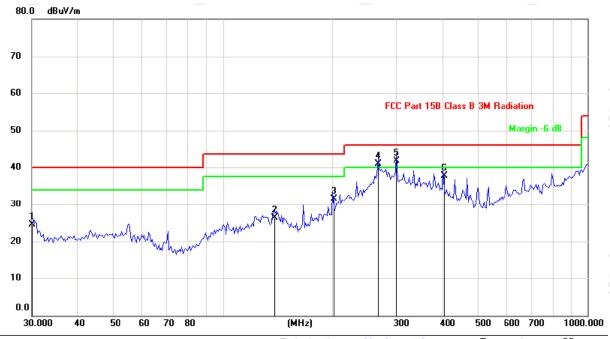
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Report No.: TCT170421E024

6.6.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:



Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15B Class B 3M Radiation Power: Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
X			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
- ر	1		30.0000	32.60	-8.02	24.58	40.00	-15.42	QP			
	2	,	138.8120	36.80	-10.50	26.30	43.50	-17.20	QP			
-	3	2	200.0432	40.60	-9.07	31.53	43.50	-11.97	QP			
-	4	! 2	266.8394	48.60	-7.76	40.84	46.00	-5.16	QP			
	5	* (300.6988	47.00	-5.21	41.79	46.00	-4.21	QP			
_	6	4	401.1050	39.10	-1.48	37.62	46.00	-8.38	QP			





Site	Polarization. Vertical	Temperature. 25
Limit: FCC Part 15B Class B 3M Radiation	Power:	Humidity: 55 %

_	No.	Mk.	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		30.6391	35.10	-7.96	27.14	40.00	-12.86	QP			
	2		40.8700	33.20	-7.02	26.18	40.00	-13.82	QP			
X	3		59.7314	34.00	-7.43	26.57	40.00	-13.43	QP			-
- ر	4	2	200.0432	39.80	-9.07	30.73	43.50	-12.77	QP			
	5	2	266.8394	40.90	-7.76	33.14	46.00	-12.86	QP			
-	6	* (65.2609	34.80	3.18	37.98	46.00	-8.02	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 802.11g) was submitted only.



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

\		IVIOGG	iddon Typo. oo	1 10						
	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	45.84	-4.20	41.64	74.00	54.00				
2377.38	Н	48.35	-4.10	44.25	74.00	54.00				
2390	Н	53.41	-3.94	49.47	74.00	54.00				
2310	V	45.22	-4.20	41.02	74.00	54.00				
2377.38	V	54.27	-4.10	50.17	74.00	54.00				
2390	V	55.47	-3.94	51.53	74.00	54.00				

Modulation Type: 802.11b

	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	51.15	-3.60	47.55	74.00	54.00				
2487.09	Н	47.73	-3.50	44.23	74.00	54.00				
2500	Н	45.23	-3.34	41.89	74.00	54.00				
2483.5	V	54.81	-3.60	51.21	74.00	54.00				
2487.09	V	47.24	-3.50	43.74	74.00	54.00				
2500	V	42.66	-3.34	39.32	74.00	54.00				

Modulation Type: 802.11g

				9							
	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	43.16	-4.20	38.96	74.00	54.00					
2388.96	Н	50.87	-4.12	46.75	74.00	54.00					
2390	Н	53.43	-3.94	49.49	74.00	54.00					
2310	V	45.75	-4.20	41.55	74.00	54.00					
2388.96	V	49.61	-4.12	45.49	74.00	54.00					
2390	V	53.17	-3.94	49.23	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	52.35	-3.60	48.75	74.00	54.00				
2487.59	Н	50.15	-3.52	46.63	74.00	54.00				
2500	Н	46.73	-3.34	43.39	74.00	54.00				
2483. 5	V	52.62	-3.60	49.02	74.00	54.00				
2487.59	V	47.63	-3.52	44.11	74.00	54.00				
2500	V	47.52	-3.34	44.18	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	53.63	-4.10	49.53	74.00	54.00		
2390	Н	54.68	-3.94	50.74	74.00	54.00		
2310	V	48.16	-4.20	43.96	74.00	54.00		
2388.01	V	54.24	-4.10	50.14	74.00	54.00		
2390	V	55.51	-3.94	51.57	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	52.67	-3.60	49.07	74.00	54.00				
2392.55	Н	51.52	-3.50	48.02	74.00	54.00				
2500	Н	47.63	-3.34	44.29	74.00	54.00				
2483. 5	V	53.23	-3.60	49.63	74.00	54.00				
2392.55	V	50.73	-3.50	47.23	74.00	54.00				
2500	V	48.68	-3.34	45.34	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	54.81	-4.20	50.61	74.00	54.00					
2387.85	Н	56.03	-4.10	51.93	74.00	54.00					
2390	Н	52.28	-3.94	48.34	74.00	54.00					
2310	V	51.35	-4.20	47.15	74.00	54.00					
2389.98	V	50.72	-4.10	46.62	74.00	54.00					
2390	V	49.61	-3.94	45.67	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	52.66	-3.60	49.06	74.00	54.00							
2493.51	Н	54.24	-3.50	50.74	74.00	54.00							
2500	Н	49.65	-3.34	46.31	74.00	54.00							
2493.51	V	54.29	-3.60	50.69	74.00	54.00							
2489.36 V		52.87	-3.46	49.41	74.00	54.00							
2500	V	50.91	-3.34	47.57	74.00	54.00							

Note:

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

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Above 1GHz

		_				
Modula	tio	n	Ty	pe:	802	.11b

	Low channel: 2412 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	eading Av reading Facto		Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4824	H	50.72		0.75	51.47		74	54	-2.53				
7236	Н	41.56		9.87	51.43		74	54	-2.57				
'	Н				'	<i>-</i> -		'					
4824	V	49.73		0.75	51.47		74	54	-2.53				
7236	V	41.61		9.87	51.43		74	54	-2.57				
	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	H O	49.65	(- C)	0.97	50.62	$C \rightarrow$	74	54	-3.38				
7311	H	41.22	-77	9.83	51.05		74	54	-2.95				
	Н												
4874	V	49.47		0.97	50.44		74	54	-3.56				
7311	V	40.81		9.83	50.64		74	54	-3.36				
/	V				<i></i>				(

	High channel: 2462 MHz												
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)				
4924	Ŧ	49.61		1.18	50.79		74	54	-3.21				
7386	Н	39.68		10.07	49.75		74	54	-4.25				
	Н												
K					X 1								
4924	V	49.83		1.18	51.01		74	54	-2.99				
7386	V	40.54		10.07	50.61		74	54	-3.39				
	V												

Note:

- 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.

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Report No.: TCT170421E024

Modulation Type: 802.11g

			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)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	49.35		0.75	50.10		74	54	-3.90
7236	Η	40.62		9.87	50.49		74	54	-3.51
	Н					-			
4824	V	47.55		0.75	48.30	7-	74	54	-5.70
7236	V	40.61		9.87	50.48	1	74	54	-3.52
	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	48.13		0.97	49.10		74	54	-4.90		
7311	H	40.27	 //	9.83	50.10		74	54	-3.90		
(CH		(C))	(.C.4		(- 6)			
4874	V	47.37		0.97	48.34		74	54	-5.66		
7311	V	40.48		9.83	50.31		74	54	-3.69		
	V										

			Н	ligh channe	l: 2462 MH	Z			
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	H	47.75	-/-	1.18	48.93		74	54	-5.07
7386	C H	39.84	70	10.07	49.91	(O-+)	74	54	-4.09
	H					<u></u>			
4924	V	46.54		1.18	47.72		74	54	-6.28
7386	V	40.21		10.07	50.28		74	54	-3.72
)	V	(, C, ')		(, ((* 6		(-e)		(, (

Note:

- 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.

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Report No.: TCT170421E024
Modulation Type: 802.11n (HT20)

			L	ow channe	I: 2412 MH:	Z				
Frequency	Ant. Pol.	Peak reading	AV reading (dBuV)	Correction Factor	Emissio Peak	n Level AV	Peak limit	AV limit	Margin	
(MHz)	H/V	(dBµV)	(dBuV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	
4824	Н	49.17		0.75	49.92		74	54	-4.08	
7236	Н	40.65		9.87	50.52		74	54	-3.48	
	H					-				
				\						
4824	V	47.49	*	0.75	48.24	7-	74	54	-5.76	
7236	V	40.21		9.87	50.08	1	74	54	-3.92	
	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	47.35		0.97	48.32		74	54	-5.68			
7311	H	40.47	 //	9.83	50.30		74	54	-3.70			
(CH		(C))	(.C.4		(- 6)				
									7			
4874	V	47.44		0.97	48.41		74	54	-5.59			
7311	V	40.13		9.83	49.96		74	54	-4.04			
	V	/7										

. 1					1 1				1.1
			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)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	48.26	-/-	1.18	49.44		74	54	-4.56
7386	O H	40.65	~0.	10.07	50.72	(O- -)	74	54	-3.28
	H					<u></u>			
4924	V	47.03		1.18	48.21		74	54	-5.79
7386	V	40.22		10.07	50.29		74	54	-3.71
(C	V	(- G -)		(, (((((-e)		(, (

Note:

- 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.

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Modulation Type: 802.11n (HT40)

1				L	ow channe	I: 2422 MH:	Z			
	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)
	4844	Η	45.94		0.66	46.60		74	54	-7.40
	7266	Н	38.53		9.5	48.03	-	74	54	-5.97
	/	Н		/		(/	
Ī	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			KO)	/	7			KO)	
Ī	4824	V	44.56		0.66	45.22		74	54	-8.78
	7236	V	35.62		9.5	45.12		74	54	-8.88
		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	Ī	42.91		0.99	43.90		74	54	-10.10	
7311	Н	34.67	[- C]	9.85	44.52	.6.4	74	54	-9.48	
	Н					<u></u>		-2		
4874	V	43.73		0.99	44.72		74	54	-9.28	
7311	V	37.36		9.85	47.21		74	54	-6.79	
	V			(,, c					(,, c	

High channel: 2452 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)		
4904	H	44.18	F-0,	1.33	45.51	(O-)	74	54	-8.49		
7356	Ŧ	36.31		10.22	46.53		74	54	-7.47		
	Н										
4904	V	43.52		1.33	44.85		74	54	-9.15		
7356	V	36.84		10.22	47.06		74	54	-6.94		
J	V								(

Note:

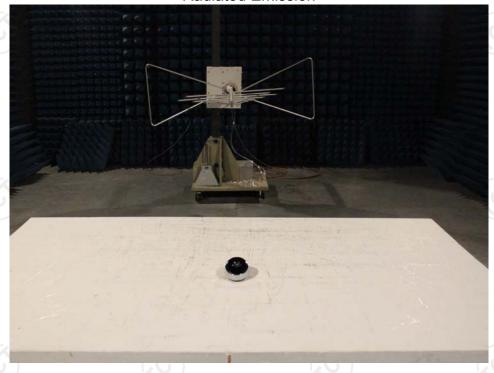
- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 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.

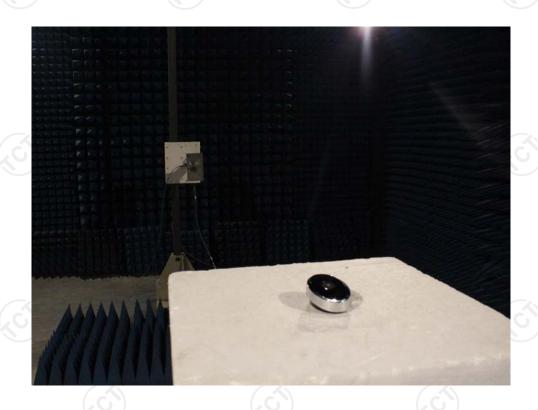
Report No.: TCT170421E024

7. Photographs of Test Configuration

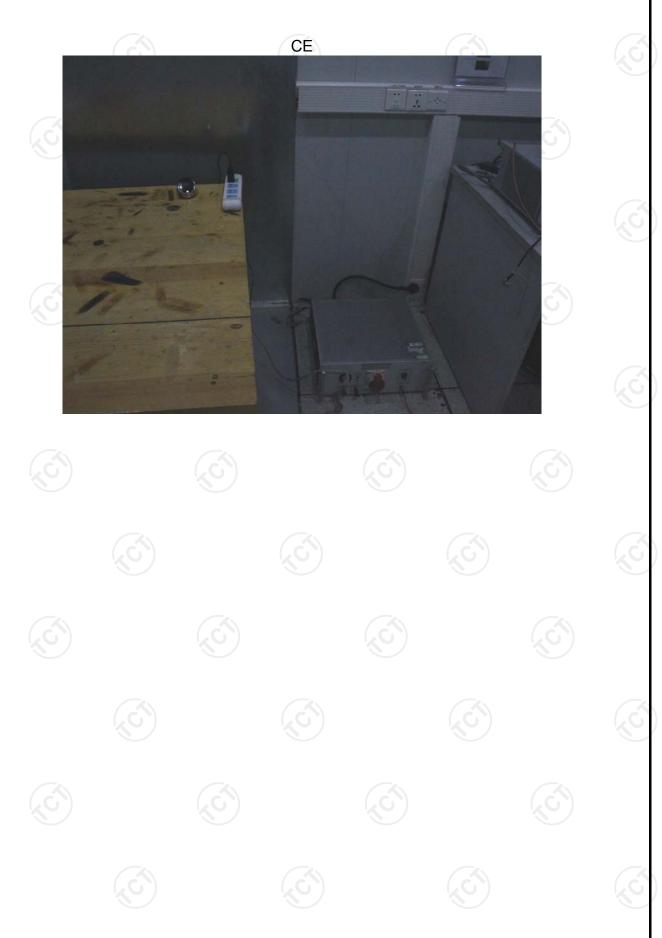
Appendix A: Photographs of Test Setup

Product: e-Hub Model: PE0002 Radiated Emission





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8. Photographs of EUT

Refer to the test report No. TCT170421E021

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



















