

TEST REPORT

FCC ID: 2AF7WHOISON00

Product: Pet Care Robot

Model No.: YX-HOISON00

**Additional Model No.: YX-HOISON01, YX-HOISON02, YX-HOISON03,
YX-HOISON04, YX-HOISON05, YX-HOISON10, YX-HOISON11, YX-HOISON12,
YX-HOISON13, YX-HOISON14, YX-HOISON15**

hoison
Trade Mark:

Report No.: TCT150928E007

Issued Date: Nov. 10, 2015

Issued for:

**Shenzhen Easething Technology Co., Ltd.
Room B3, 11F, BLOG E4, TCL International E city, NO.1001, Zhongshanyuan
Road, Nanshan Dist, Shenzhen City, Guangdong Prov., China**

Issued By:

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the revision section of the document. The test results in the report only apply to the tested sample.**

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1. Test Certification

Product:	Pet Care Robot
Model No.:	YX-HOISON00
Additional Model No.:	YX-HOISON01, YX-HOISON02, YX-HOISON03, YX-HOISON04, YX-HOISON05, YX-HOISON10, YX-HOISON11, YX-HOISON12, YX-HOISON13, YX-HOISON14, YX-HOISON15
Applicant:	Shenzhen Easething Technology Co., Ltd.
Address:	Room B3, 11F, BLOG E4, TCL International E city, NO.1001 , Zhongshanyuan Road, Nanshan Dist, Shenzhen City, Guangdong Prov., China
Manufacturer:	Shenzhen Easething Technology Co., Ltd.
Address:	Room B3, 11F, BLOG E4, TCL International E city, NO.1001 , Zhongshanyuan Road, Nanshan Dist, Shenzhen City, Guangdong Prov., China
Date of Test:	Sep. 28 – Nov. 09, 2015
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r02

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: Neil Wong

Neil Wong

Date: Nov. 09, 2015

Reviewed By: Joe Zhou

Joe Zhou

Date: Nov. 10, 2015

Approved By: Tomsin

Tomsin

Date: Nov. 10, 2015

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)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d)	PASS
Spurious Emission	§15.205/§15.209	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:	Pet Care Robot
Model :	YX-HOISON00
Additional Model:	YX-HOISON01, YX-HOISON02, YX-HOISON03, YX-HOISON04, YX-HOISON05, YX-HOISON10, YX-HOISON11, YX-HOISON12, YX-HOISON13, YX-HOISON14, YX-HOISON15
Trade Mark:	hoison
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Channel Separation:	5MHz
Number of Channel:	11
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 65Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	1.0dBi
Power Supply:	AC 120V/60Hz DC 6.0V(dry battery 1.5V*4)
Remark:	All the models above are identical in interior structure, electrical circuits and components, and just differ in look and model for the marketing requirement.

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

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 more than 98%)
<p>The sample was placed 0.8m 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.</p>	

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
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
<p>According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.</p>	

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
/	/	/	/	/

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.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

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

- IC - Registration No.: 10668A-1

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

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

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

Tel: 86-755-36638142

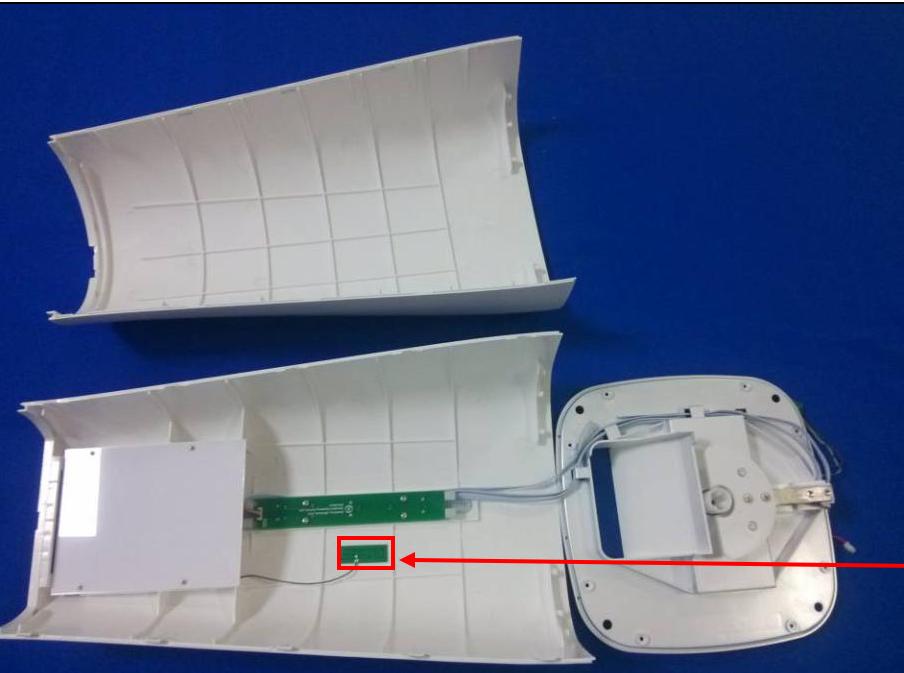
5.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

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 an PCB antenna which permanently attached, and the best case gain of the antenna is 1.0dBi.	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4:2014														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<p>Reference Plane</p> <p>Test table/Insulation plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.1m</p>														
Test Mode:	Charging + transmitting with modulation														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. 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). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 														
Test Result:	PASS														

6.2.2. Test Instruments

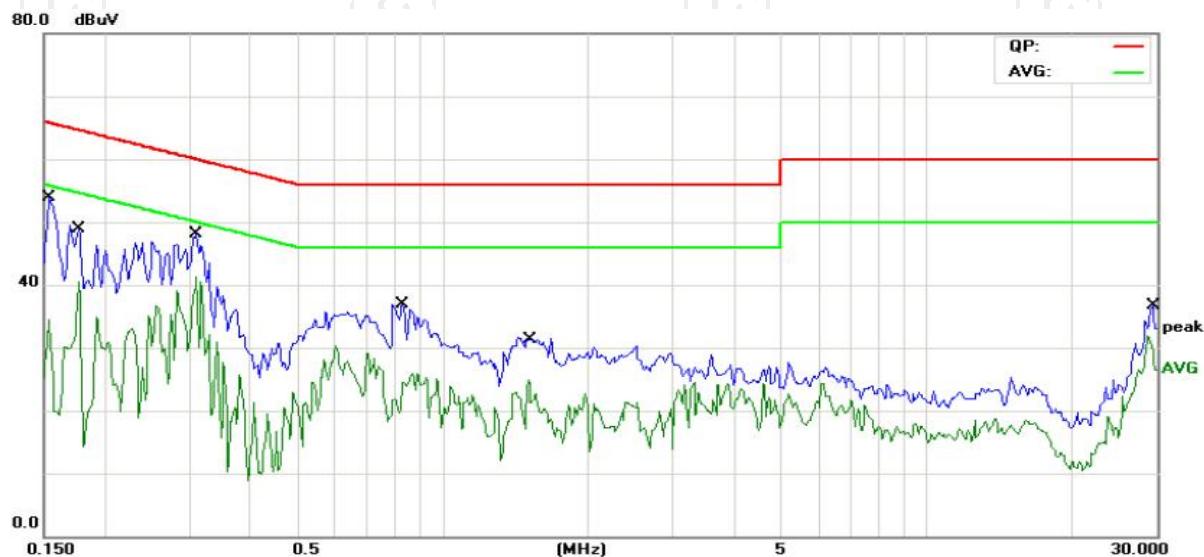
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	100139	Sep. 11, 2016
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 16, 2016
Coax cable	TCT	CE-05	N/A	Sep. 11, 2016
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

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

6.2.3. Test data

Please refer to following diagram for individual

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



Site Chamber #2 Phase: **L1** Temperature: 25 (C)
Limit: FCC Part 15B Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 56 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over					
							MHz	dBuV	dB	dBuV	dB	Detector
1		0.1539	37.89	11.51	49.40	65.78	-16.38	QP				
2		0.1539	14.83	11.51	26.34	55.78	-29.44	AVG				
3		0.1773	26.26	11.50	37.76	64.61	-26.85	QP				
4		0.1773	7.97	11.50	19.47	54.61	-35.14	AVG				
5		0.3102	32.96	11.42	44.38	59.96	-15.58	QP				
6	*	0.3102	24.46	11.42	35.88	49.96	-14.08	AVG				
7		0.8305	15.01	11.20	26.21	56.00	-29.79	QP				
8		0.8305	4.13	11.20	15.33	46.00	-30.67	AVG				
9		1.5250	16.36	11.45	27.81	56.00	-28.19	QP				
10		1.5250	7.84	11.45	19.29	46.00	-26.71	AVG				
11		29.2157	8.32	10.66	18.98	60.00	-41.02	QP				
12		29.2157	1.77	10.66	12.43	50.00	-37.57	AVG				

Note:-

Freq. = Emission frequency in MHz

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

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

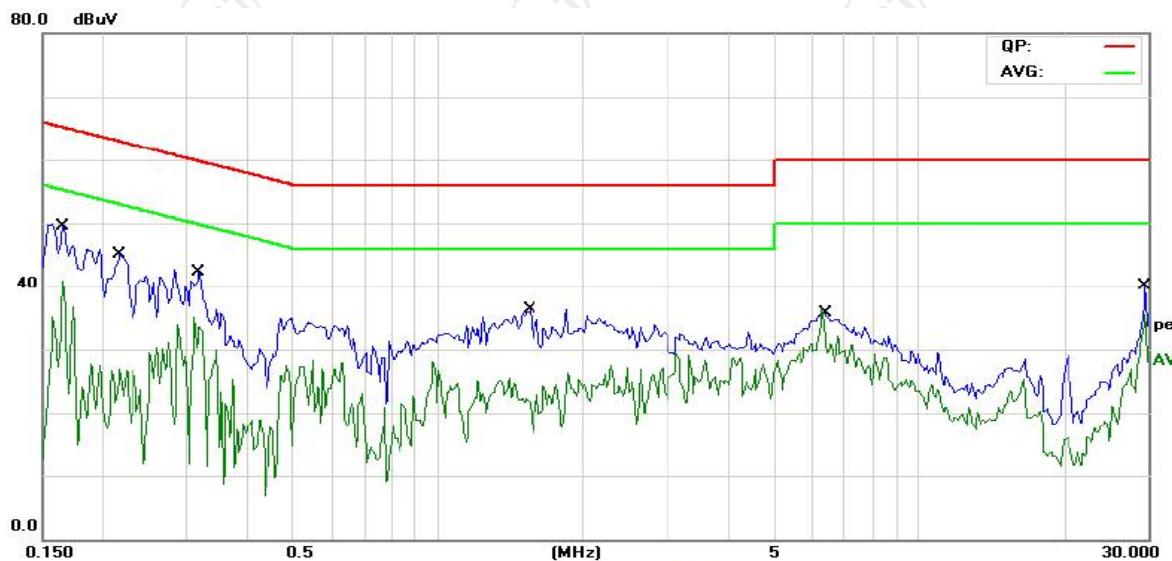
Margin (dB) = Measurement (dBuV) - Limits (dBuV)

Margin (dB) - Mea
 $QP \equiv$ Quasi-Peak

Q.7 : Quotient

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

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



Site Chamber #2 Phase: **N** Temperature: 25 (C)
Limit: FCC Part 15B Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 56 %

No.	Mk.	Freq. MHz	Reading Level dB μ V	Correct Factor dB	Measure- ment dB μ V	Limit dB μ V	Over	
							Detector	Comment
1	*	0.1655	35.66	11.51	47.17	65.18	-18.01	QP
2		0.1655	19.05	11.51	30.56	55.18	-24.62	AVG
3		0.2164	30.67	11.47	42.14	62.95	-20.81	QP
4		0.2164	15.72	11.47	27.19	52.95	-25.76	AVG
5		0.3180	26.75	11.42	38.17	59.76	-21.59	QP
6		0.3180	18.51	11.42	29.93	49.76	-19.83	AVG
7		1.5355	17.86	11.45	29.31	56.00	-26.69	QP
8		1.5355	8.59	11.45	20.04	46.00	-25.96	AVG
9		6.3520	20.74	10.82	31.56	60.00	-28.44	QP
10		6.3520	14.34	10.82	25.16	50.00	-24.84	AVG
11		29.5938	23.61	10.65	34.26	60.00	-25.74	QP
12		29.5938	16.38	10.65	27.03	50.00	-22.97	AVG

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ 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

6.2.5. Test Specification

6.2.6. Test Instruments

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

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

6.2.7. Test Data

802.11b mode

Test channel	Maximum Conducted (Average) Output Power (dBm)	Limit (dBm)	Result
Lowest	19.67	30.00	PASS
Middle	19.32	30.00	PASS
Highest	18.96	30.00	PASS

802.11g mode

Test channel	Maximum Conducted (Average) Output Power (dBm)	Limit (dBm)	Result
Lowest	20.50	30.00	PASS
Middle	20.71	30.00	PASS
Highest	19.79	30.00	PASS

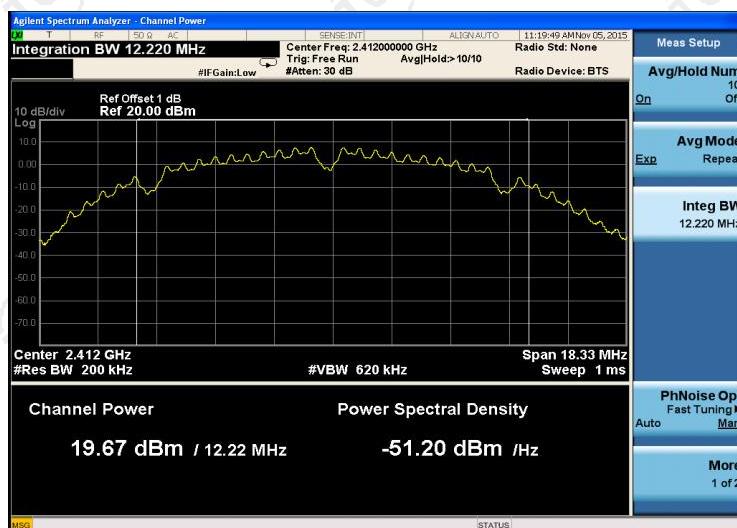
802.11n(H20) mode

Test channel	Maximum Conducted (Average) Output Power (dBm)	Limit (dBm)	Result
Lowest	19.28	30.00	PASS
Middle	19.00	30.00	PASS
Highest	18.53	30.00	PASS

Test plots as follows:

802.11b Modulation

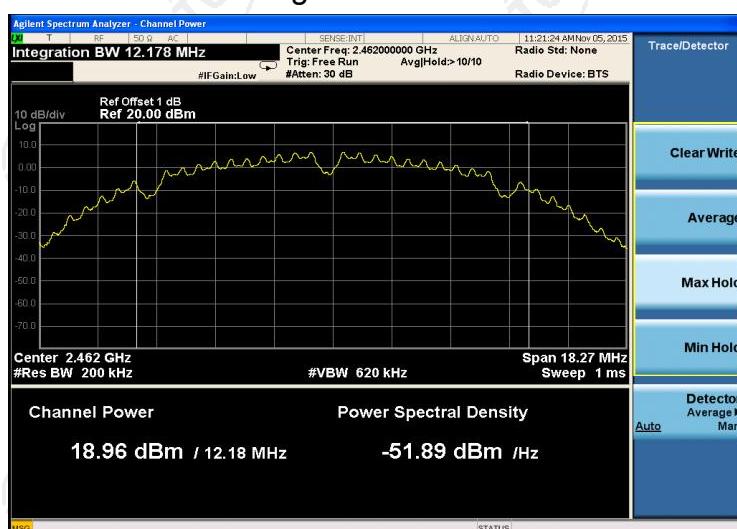
Lowest channel



Middle channel



Highest channel

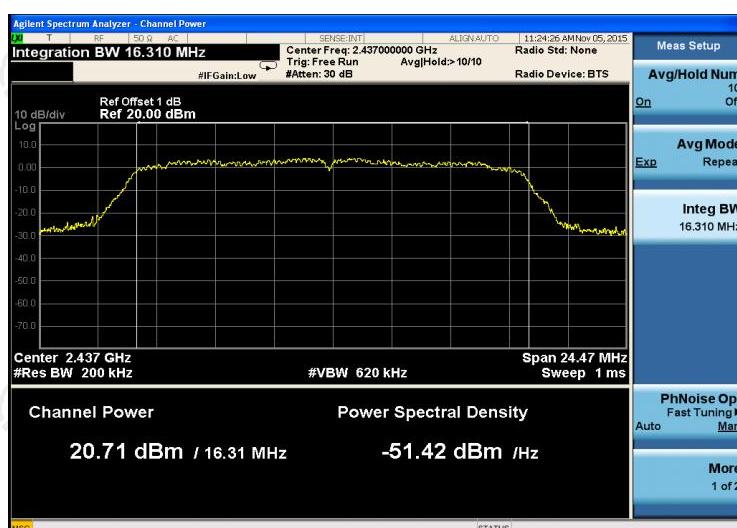


802.11g Modulation

Lowest channel



Middle channel

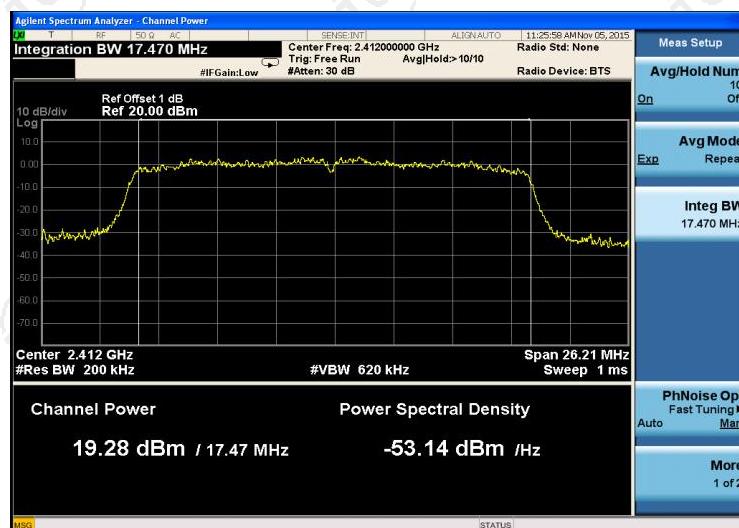


Highest channel

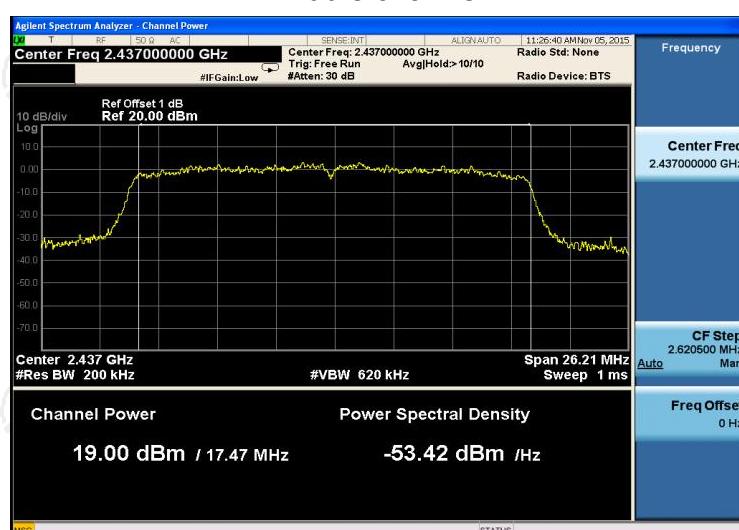


802.11n (HT20) Modulation

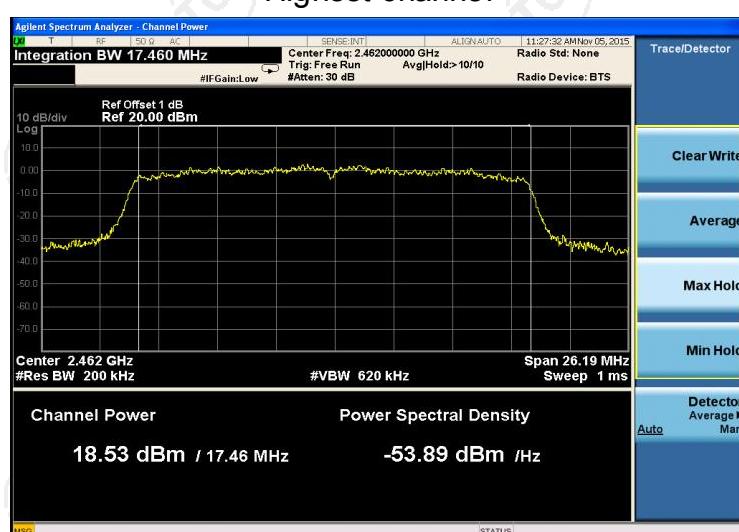
Lowest channel



Middle channel

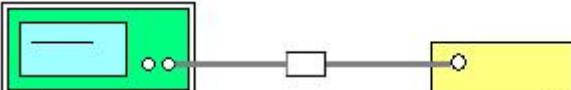


Highest channel



6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074
Limit:	>500kHz
Test Setup:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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. 4. Measure and record the results in the test report.
Test Result:	PASS

6.3.2. Test Instruments

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

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

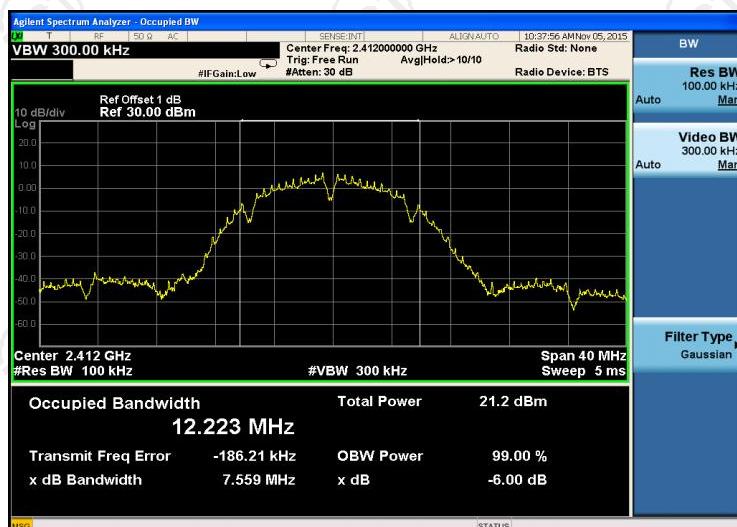
6.3.3. Test data

Test channel	6dB Emission Bandwidth (MHz)		
	802.11b	802.11g	802.11n(H20)
Lowest	7.559	15.10	15.08
Middle	8.022	15.31	16.31
Highest	7.560	15.11	15.01
Limit:	>500KHz		
Test Result:	PASS		

Test plots as follows:

802.11b Modulation

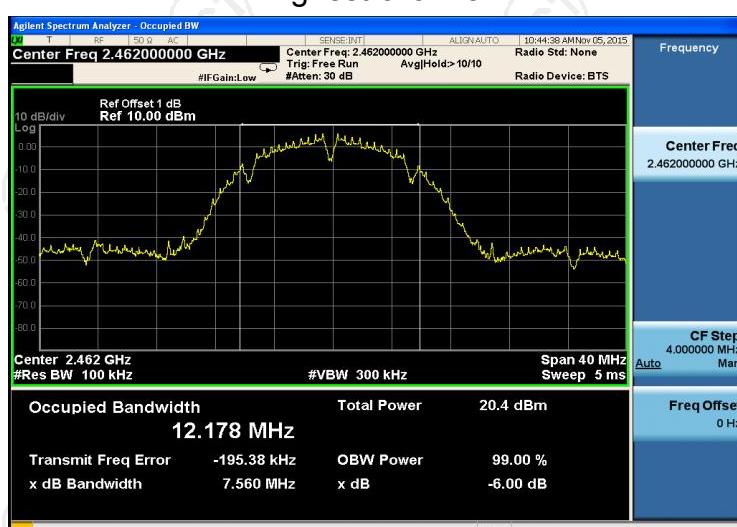
Lowest channel



Middle channel

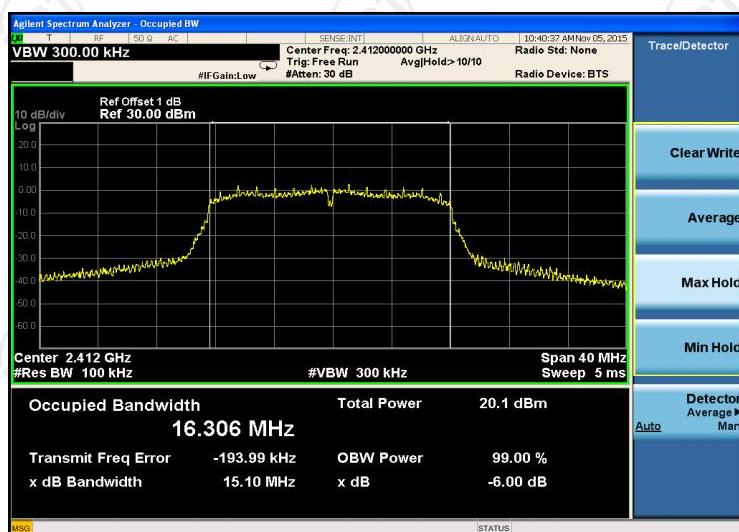


Highest channel

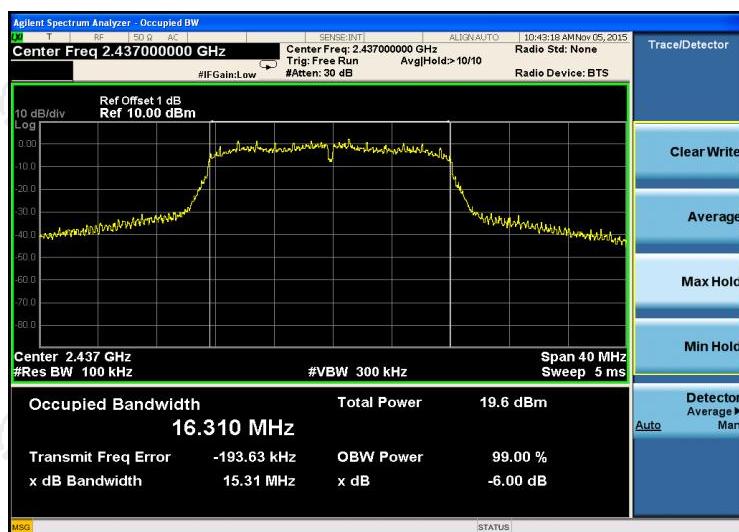


802.11g Modulation

Lowest channel



Middle channel

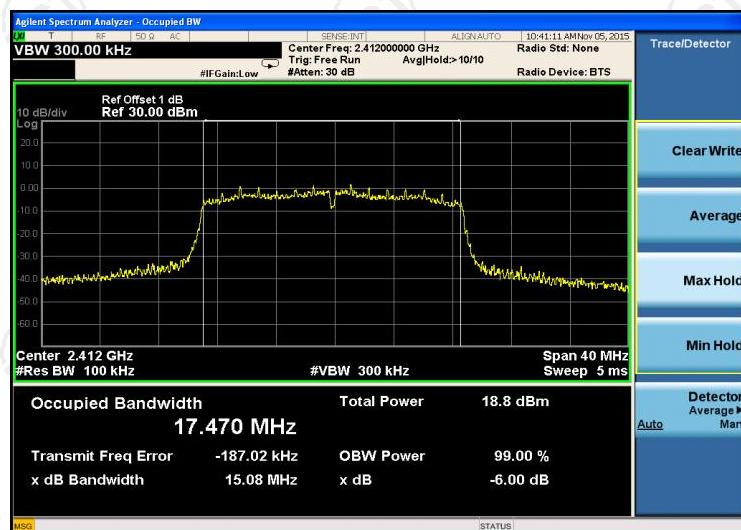


Highest channel

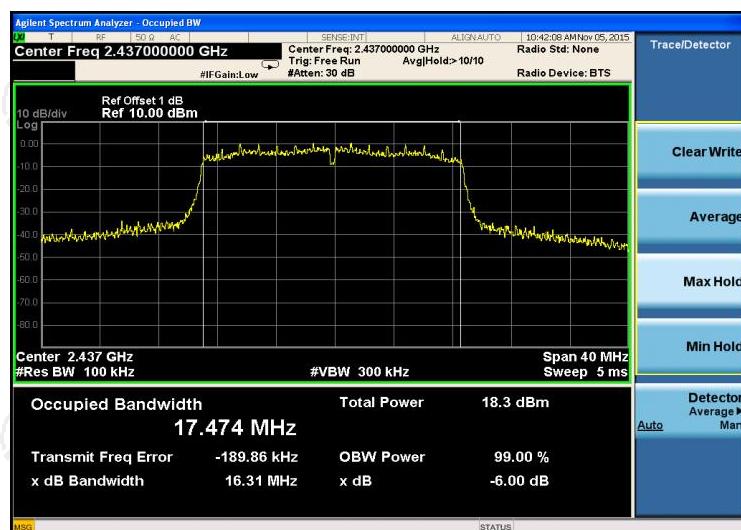


802.11n (HT20) Modulation

Lowest channel



Middle channel

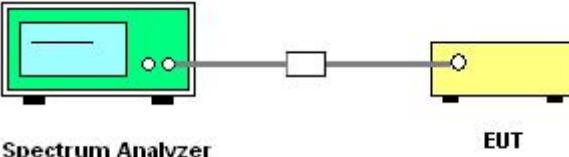


Highest channel



6.4. Power Spectral Density

6.5. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r02 2. 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

6.5.1. Test Instruments

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

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

6.5.2. Test data

Test channel	AVG Power Spectral Density (dBm/3kHz)		
	802.11b	802.11g	802.11n(H20)
Lowest	-5.273	-9.210	-10.499
Middle	-6.497	-9.427	-10.783
Highest	-8.725	-10.223	-11.720
Limit:	8dBm/3kHz		
Test Result:	PASS		

Test plots as follows:

802.11b Modulation

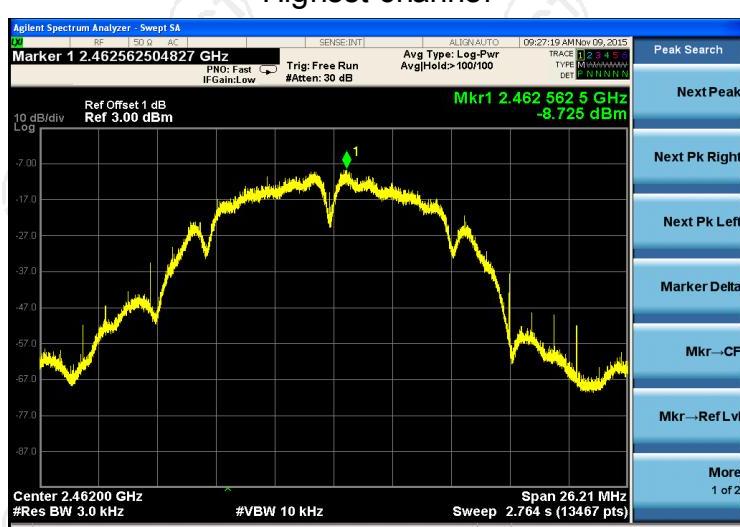
Lowest channel



Middle channel

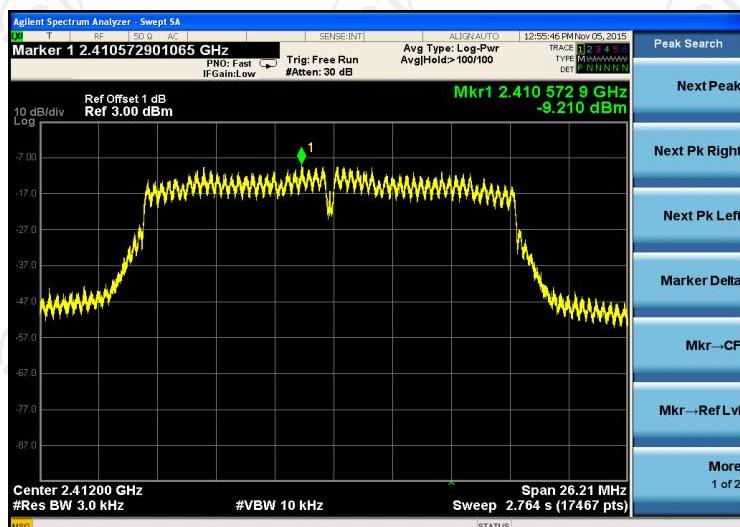


Highest channel

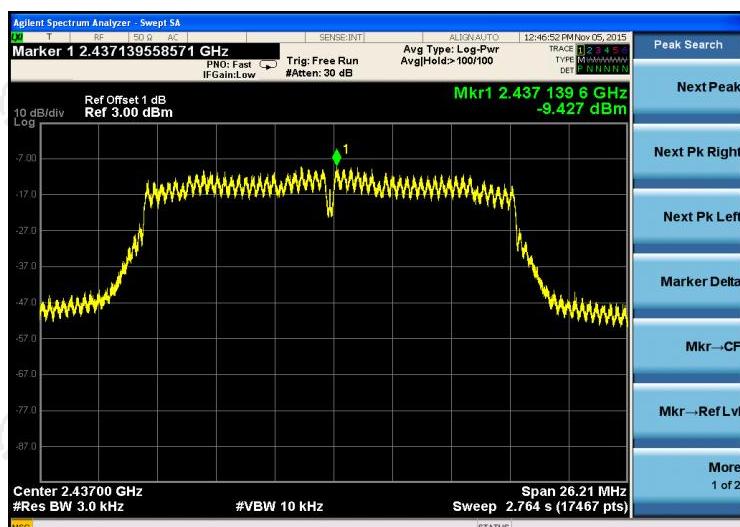


802.11g Modulation

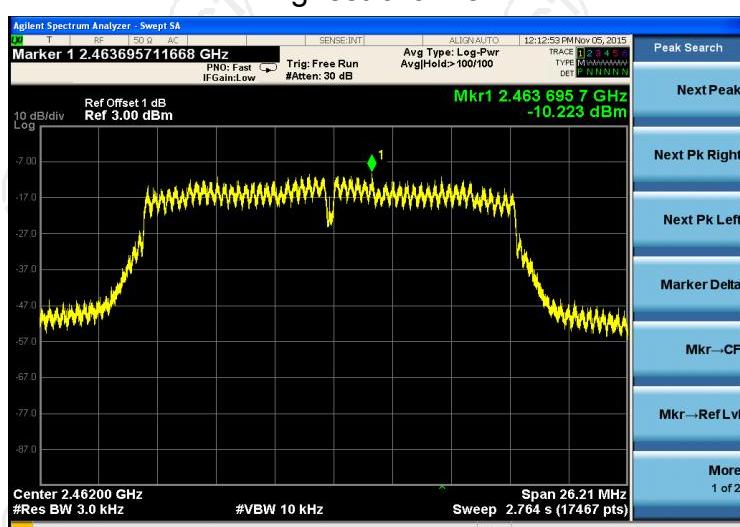
Lowest channel



Middle channel

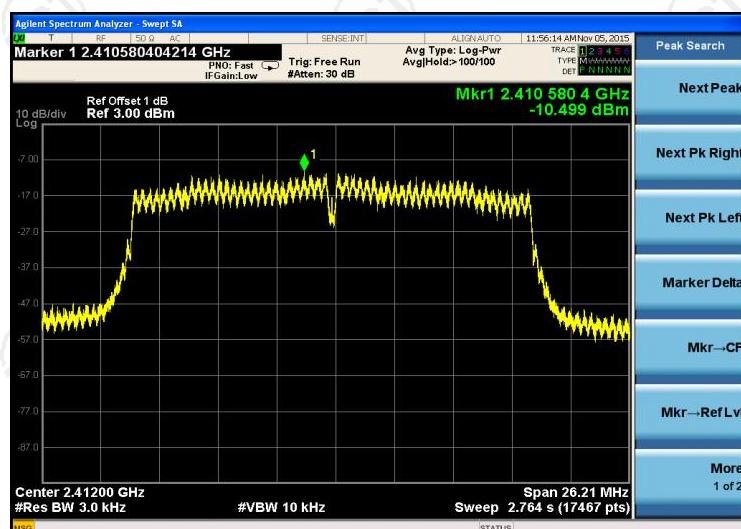


Highest channel

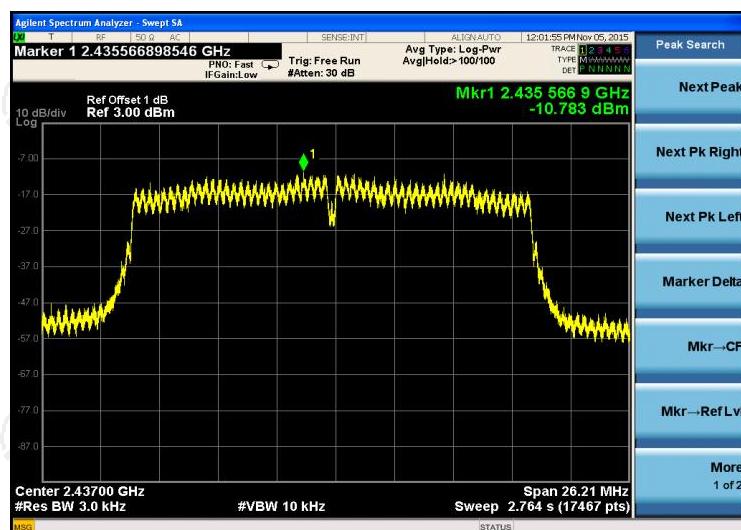


802.11n (HT20) Modulation

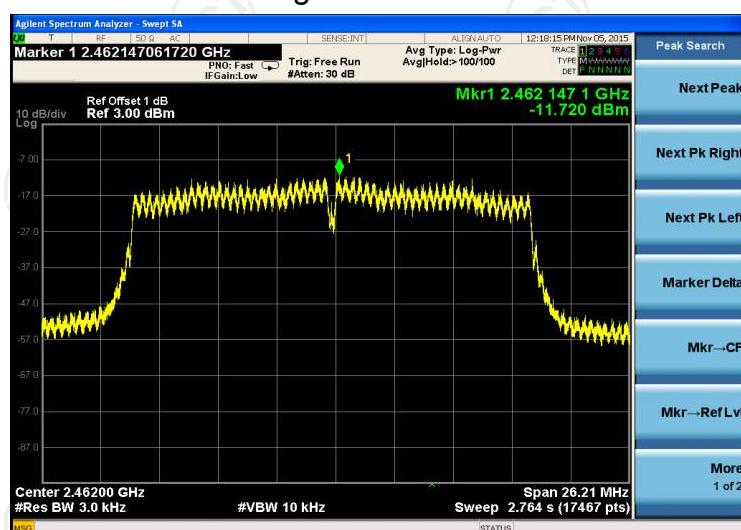
Lowest channel



Middle channel

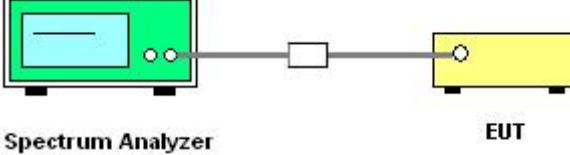


Highest channel



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:	ANSI C63.10:2013 and 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:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02. 2. 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. 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). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

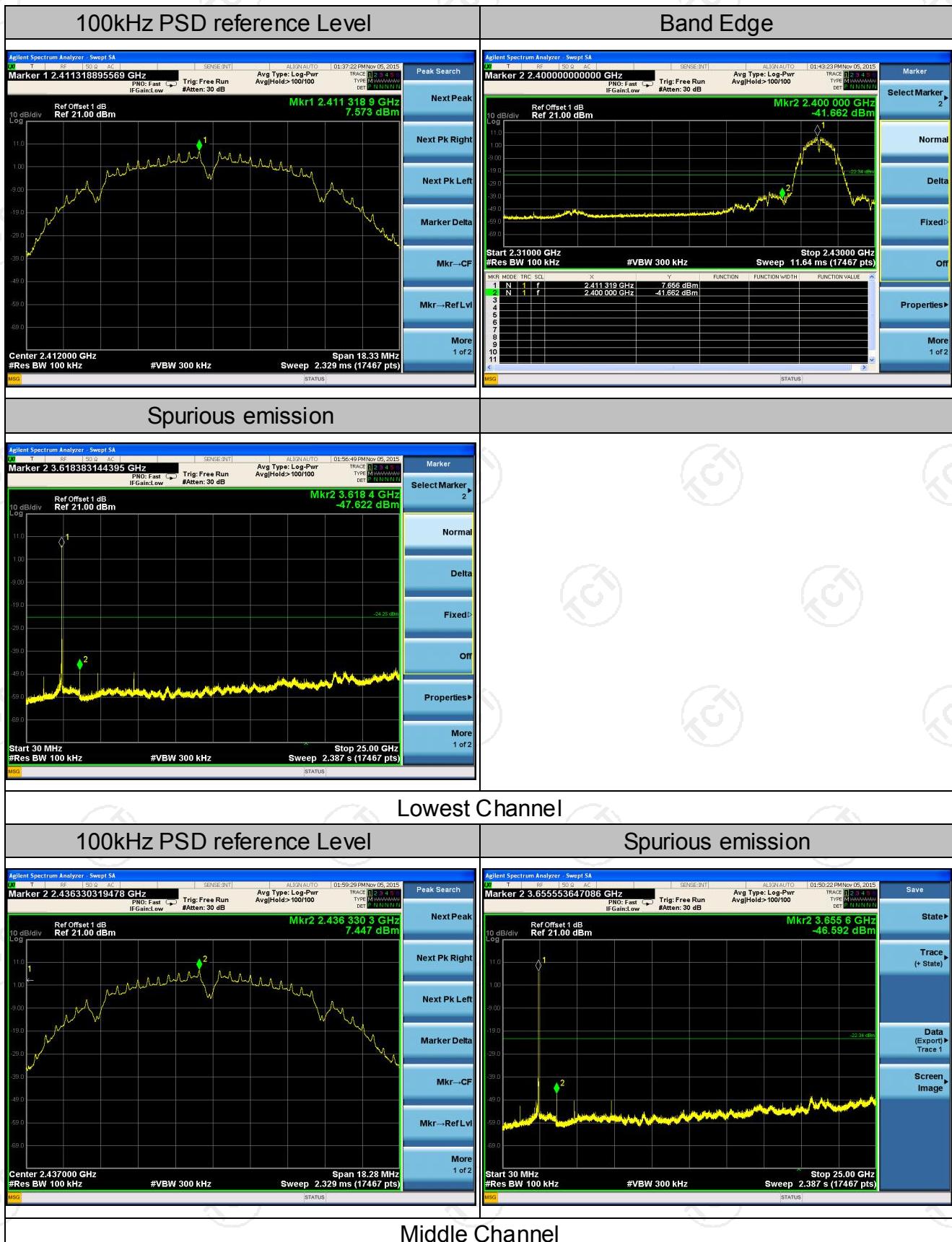
6.6.2. Test Instruments

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

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

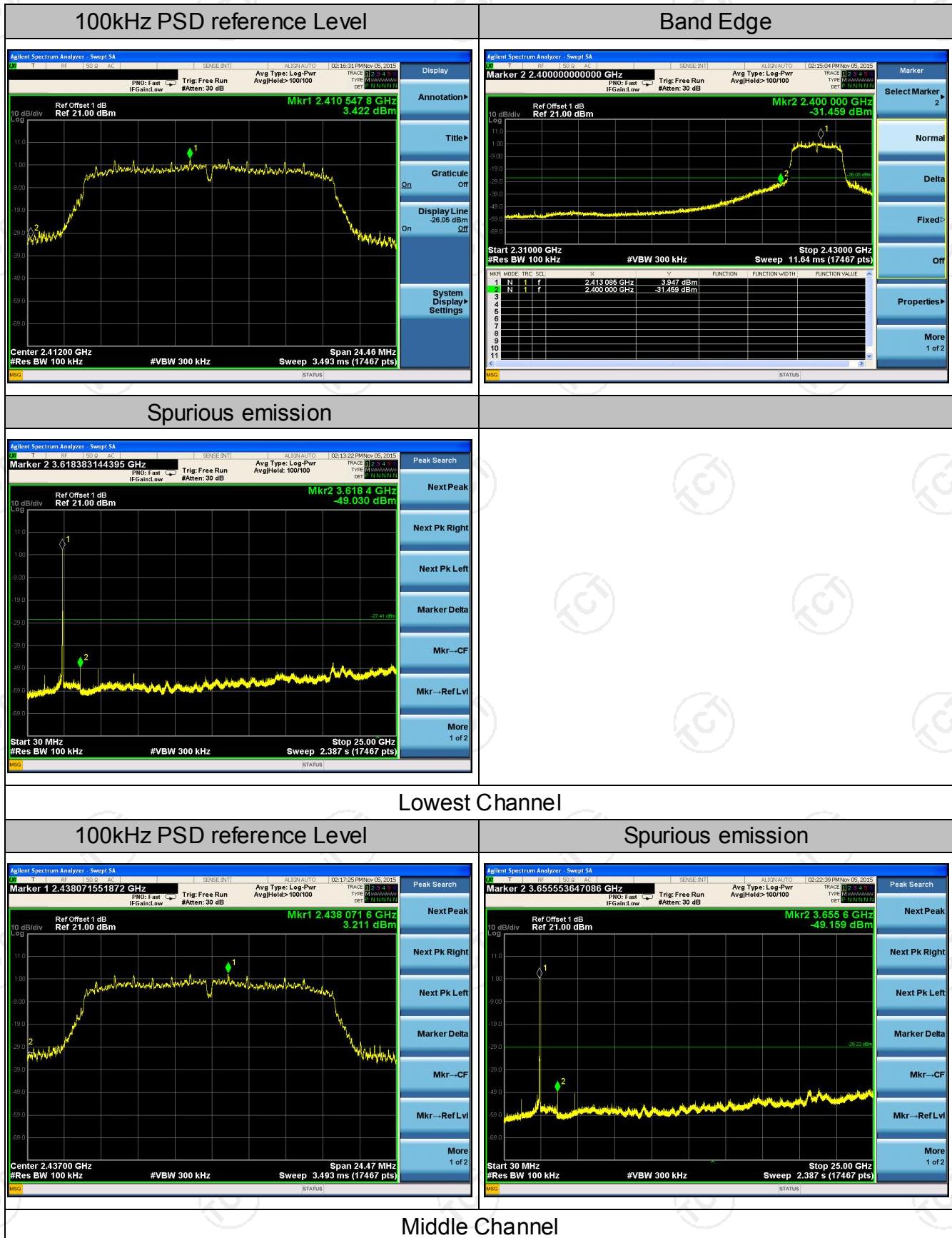
6.6.3. Test Data

802.11b Modulation





802.11g Modulation



100kHz PSD reference Level



Band Edge

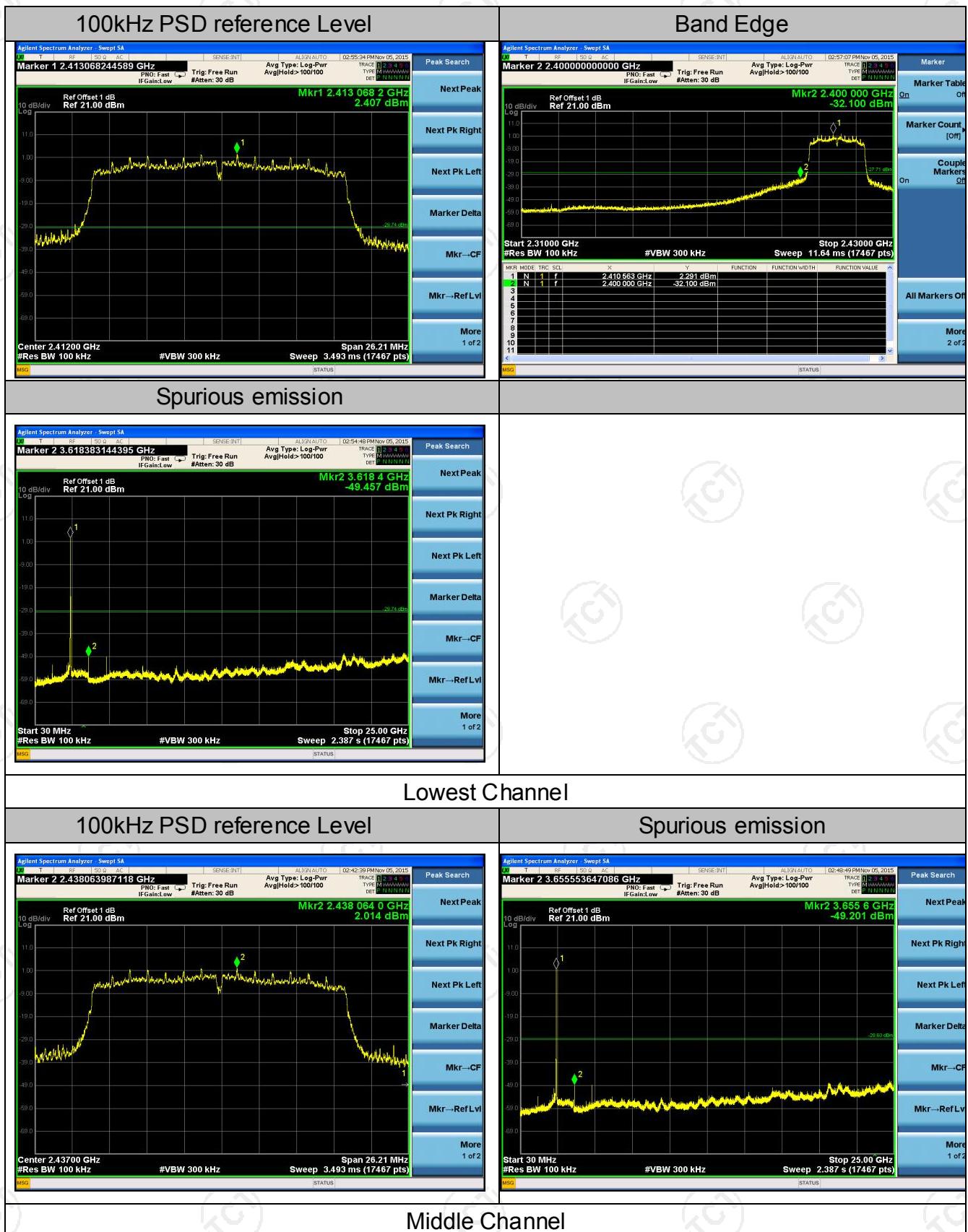


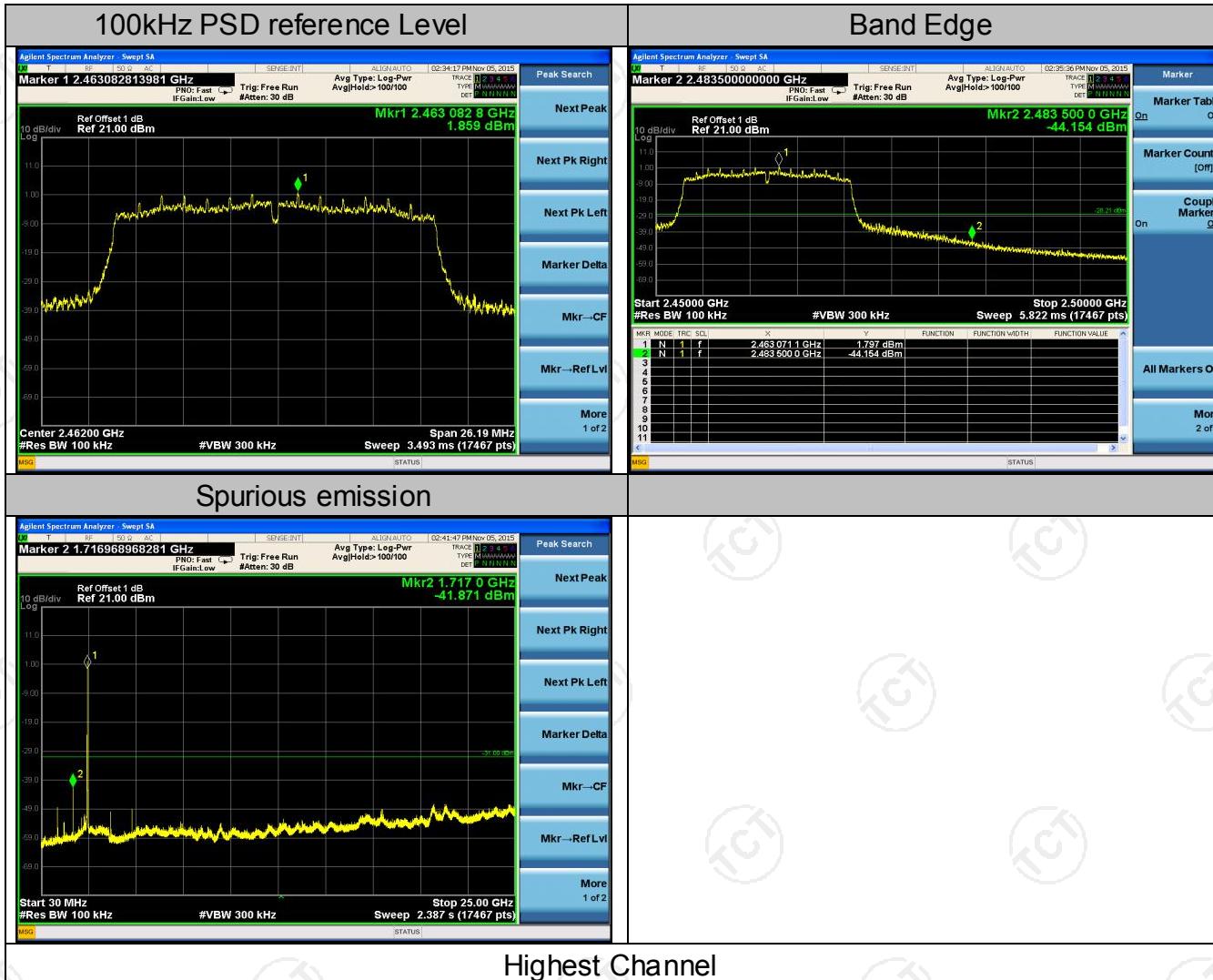
Spurious emission



Highest Channel

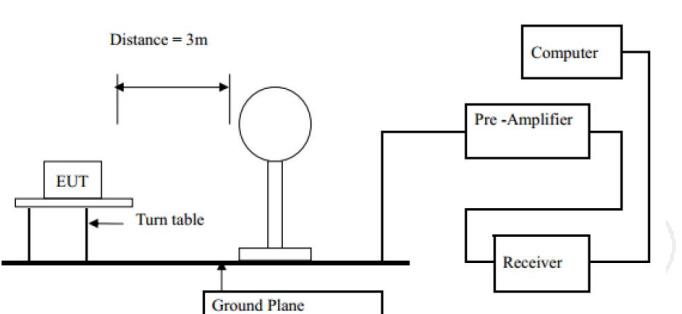
802.11n (HT20) Modulation

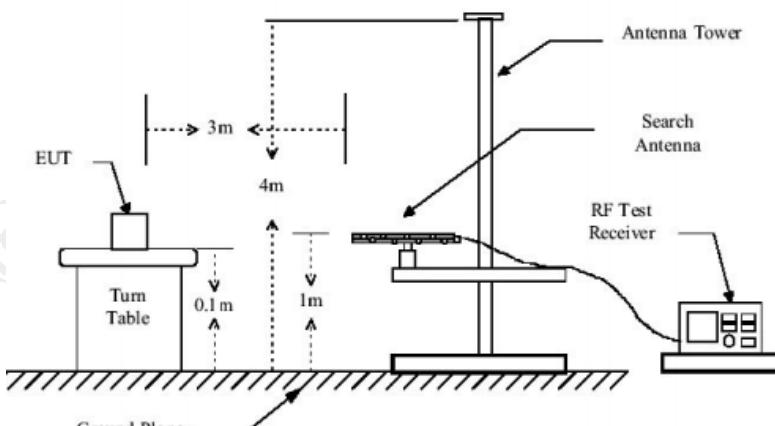




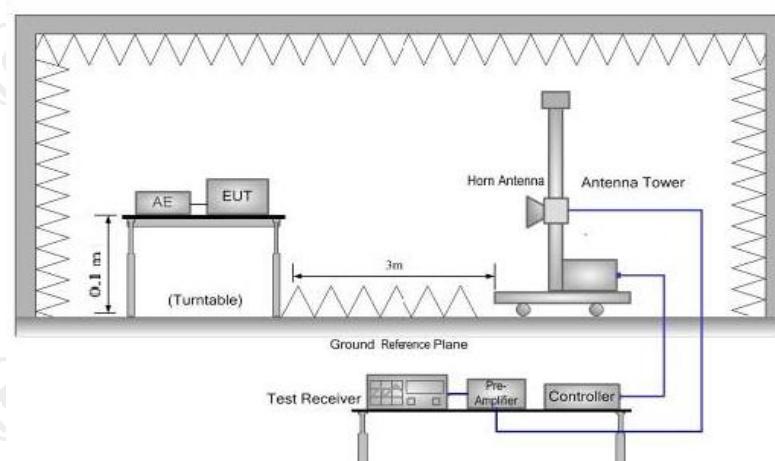
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209																																							
Test Method:	ANSI C63.4: 2014 and ANSI C63.10: 2013																																							
Frequency Range:	9 kHz to 25 GHz																																							
Measurement Distance:	3 m																																							
Antenna Polarization:	Horizontal & Vertical																																							
Operation mode:	Transmitting mode with modulation																																							
Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>9kHz- 150kHz</td> <td>Quasi-peak</td> <td>200Hz</td> <td>1kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>150kHz- 30MHz</td> <td>Quasi-peak</td> <td>9kHz</td> <td>30kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td><td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value						
Frequency	Detector	RBW	VBW	Remark																																				
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value																																				
150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value																																				
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																																				
Above 1GHz	Peak	1MHz	3MHz	Peak Value																																				
	Peak	1MHz	10Hz	Average Value																																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Field Strength (microvolts/meter)</th> <th>Measurement Distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/F(KHz)</td> <td>300</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/F(KHz)</td> <td>30</td> </tr> <tr> <td>1.705-30</td> <td>30</td> <td>30</td> </tr> <tr> <td>30-88</td> <td>100</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Field Strength (microvolts/meter)</th> <th>Measurement Distance (meters)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Above 1GHz</td><td>500</td> <td>3</td> <td>Average</td> </tr> <tr> <td>5000</td> <td>3</td> <td>Peak</td> </tr> </tbody> </table>					Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	0.009-0.490	2400/F(KHz)	300	0.490-1.705	24000/F(KHz)	30	1.705-30	30	30	30-88	100	3	88-216	150	3	216-960	200	3	Above 960	500	3	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector	Above 1GHz	500	3	Average	5000	3	Peak
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)																																						
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0.490-1.705	24000/F(KHz)	30																																						
1.705-30	30	30																																						
30-88	100	3																																						
88-216	150	3																																						
216-960	200	3																																						
Above 960	500	3																																						
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector																																					
Above 1GHz	500	3	Average																																					
	5000	3	Peak																																					
Test setup:	<p>For radiated emissions below 30MHz</p>  <p>Distance = 3m</p> <p>EUT</p> <p>Turn table</p> <p>Ground Plane</p> <p>Computer</p> <p>Pre-Amplifier</p> <p>Receiver</p> <p>30MHz to 1GHz</p>																																							



Above 1GHz



Test Procedure:

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
2. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 1.5 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,

	<p>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.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>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.</p> <p>5. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none">(1) Span shall wide enough to fully capture the emission being measured;(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. <p>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.</p>
Test results:	PASS

6.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sep. 13, 2016
Coax cable	TCT	RE-low-01	N/A	Sep. 11, 2016
Coax cable	TCT	RE-high-02	N/A	Sep. 11, 2016
Coax cable	TCT	RE-low-03	N/A	Sep. 11, 2016
Coax cable	TCT	RE-High-04	N/A	Sep. 11, 2016
Antenna Mast	CCS	CC-A-4M	N/A	Sep. 12, 2016
EMI Test Software	Shurples 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: 23		
Limit: FCC Part 15B Class B RE_3 m		Power: AC 120V/60Hz				Humidity: 54 %		
No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree
		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm
1	227.0164	39.16	-10.75	28.41	46.00	-17.59	peak	0
2	280.2936	40.54	-8.93	31.61	46.00	-14.39	peak	0
3	327.1554	39.64	-7.69	31.95	46.00	-14.05	peak	0
4	398.2962	36.72	-6.23	30.49	46.00	-15.51	peak	0
5	708.6941	26.86	0.25	27.11	46.00	-18.89	peak	0
6	*	821.3871	34.39	1.72	36.11	46.00	-9.89	peak

Vertical:



Site: Polarization: **Vertical** Temperature: 23
 Limit: FCC Part 15B Class B RE_3 m Power: AC 120V/60Hz Humidity: 54 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment			Height	Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		38.0965	41.91	-12.71	29.20	40.00	-10.80	peak	0	
2		101.8932	43.59	-11.53	32.06	43.50	-11.44	peak	0	
3		139.7910	43.38	-15.38	28.00	43.50	-15.50	peak	0	
4		223.8482	46.41	-10.85	35.56	46.00	-10.44	peak	0	
5		318.0875	42.96	-7.87	35.09	46.00	-10.91	peak	0	
6	*	401.1050	42.01	-6.16	35.85	46.00	-10.15	peak	0	

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

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20)), 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

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB μ V/m)	AV limit (dB μ V/m)
2310	H	45.28	-4.2	41.08	74.00	54.00
2376.58	H	47.57	-4.1	43.47	74.00	54.00
2390	H	54.20	-3.94	50.26	74.00	54.00
2310	V	43.55	-4.2	39.35	74.00	54.00
2376.58	V	53.32	-4.1	49.22	74.00	54.00
2390	V	54.09	-3.94	50.15	74.00	54.00

Modulation Type: 802.11b

Low channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB μ V/m)	AV limit (dB μ V/m)
2483.5	H	52.01	-3.6	48.41	74.00	54.00
2487.77	H	48.51	-3.5	45.01	74.00	54.00
2500	H	45.02	-3.34	41.68	74.00	54.00
2483.5	V	54.97	-3.6	51.37	74.00	54.00
2487.77	V	48.72	-3.5	45.22	74.00	54.00
2500	V	47.68	-3.34	44.34	74.00	54.00

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB μ V/m)	AV limit (dB μ V/m)
2310	H	46.49	-4.2	42.29	74.00	54.00
2378.30	H	49.29	-4.1	45.19	74.00	54.00
2390	H	53.67	-3.94	49.73	74.00	54.00
2310	V	43.73	-4.2	39.53	74.00	54.00
2378.30	V	54.75	-4.1	50.65	74.00	54.00
2390	V	53.00	-3.94	49.06	74.00	54.00

Modulation Type: 802.11g

Low channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB μ V/m)	AV limit (dB μ V/m)
2483.5	H	51.70	-3.6	48.10	74.00	54.00
2487.96	H	48.70	-3.5	45.20	74.00	54.00
2500	H	45.93	-3.34	42.59	74.00	54.00
2483.5	V	55.11	-3.6	51.51	74.00	54.00
2487.96	V	48.50	-3.5	45.00	74.00	54.00
2500	V	46.68	-3.34	43.34	74.00	54.00

Modulation Type: 802.11n(20MHz)

Low channel: 2412 MHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB μ V/m)	AV limit (dB μ V/m)
2310	H	45.69	-4.2	41.49	74.00	54.00
2378.20	H	49.19	-4.1	45.09	74.00	54.00
2390	H	53.23	-3.94	49.29	74.00	54.00
2310	V	44.38	-4.2	40.18	74.00	54.00
2378.20	V	54.75	-4.1	50.65	74.00	54.00
2390	V	55.32	-3.94	51.38	74.00	54.00

Modulation Type: 802.11n(20MHz)

Low channel: 2462 MHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB μ V/m)	AV limit (dB μ V/m)
2483.5	H	51.09	-3.6	47.49	74.00	54.00
2486.94	H	47.68	-3.5	44.18	74.00	54.00
2500	H	45.27	-3.34	41.93	74.00	54.00
2483.5	V	54.31	-3.6	50.71	74.00	54.00
2486.94	V	49.10	-3.5	45.60	74.00	54.00
2500	V	47.87	-3.34	44.53	74.00	54.00

Note:

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

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4824	H	46.8	---	0.75	47.55	---	74	54	-6.45
7236	H	42.71	---	9.87	52.58	---	74	54	-1.42
---	H	---	---	---	---	---	---	---	---
4824	V	47.12	---	0.75	47.87	---	74	54	-6.13
7236	V	42.78	---	9.87	52.65	---	74	54	-1.35
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	46.33	---	0.97	47.3	---	74	54	-6.70
7311	H	42.54	---	9.83	52.37	---	74	54	-1.63
---	H	---	---	---	---	---	---	---	---
4874	V	46.48	---	0.97	47.45	---	74	54	-6.55
7311	V	42.13	---	9.83	51.96	---	74	54	-2.04
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4924	H	46.02	---	1.18	47.2	---	74	54	-6.8
7386	H	42.27	---	10.07	52.34	---	74	54	-1.66
---	H	---	---	---	---	---	---	---	---
4924	V	46.54	---	1.18	47.72	---	74	54	-6.28
7386	V	42.09	---	10.07	52.16	---	74	54	-1.84
---	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.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4824	H	46.68	---	0.75	47.43	---	74	54	-6.57
7236	H	42.21	---	9.87	52.08	---	74	54	-1.92
---	H	---	---	---	---	---	---	---	---
4824	V	46.62	---	0.75	47.37	---	74	54	-6.63
7236	V	42.53	---	9.87	52.40	---	74	54	-1.60
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	46.08	---	0.97	47.05	---	74	54	-6.95
7311	H	42.42	---	9.83	52.25	---	74	54	-1.75
---	H	---	---	---	---	---	---	---	---
4874	V	46.08	---	0.97	47.05	---	74	54	-6.95
7311	V	42.07	---	9.83	51.90	---	74	54	-2.10
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4924	H	46.02	---	1.18	47.20	---	74	54	-6.80
7386	H	41.81	---	10.07	51.88	---	74	54	-2.12
---	H	---	---	---	---	---	---	---	---
4924	V	46.44	---	1.18	47.62	---	74	54	-6.38
7386	V	42.16	---	10.07	52.23	---	74	54	-1.77
---	V	---	---	---	---	---	---	---	---

Note:

3. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
4. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
7. 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 (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4824	H	46.37	--	0.75	47.12	--	74	54	-6.88
7236	H	42.87	--	9.87	52.74	--	74	54	-1.26
--	H	--	--	--	--	--	--	--	--
4824	V	47.07	--	0.75	47.82	--	74	54	-6.18
7236	V	42.44	--	9.87	52.31	--	74	54	-1.69
--	V	--	--	--	--	--	--	--	--

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	46.18	--	0.97	47.15	--	74	54	-6.85
7311	H	42.27	--	9.83	52.10	--	74	54	-1.90
--	H	--	--	--	--	--	--	--	--
4874	V	46.04	--	0.97	47.01	--	74	54	-6.99
7311	V	42.24	--	9.83	52.07	--	74	54	-1.93
--	V	--	--	--	--	--	--	--	--

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4924	H	45.71	--	1.18	46.89	--	74	54	-7.11
7386	H	41.95	--	10.07	52.02	--	74	54	-1.98
--	H	--	--	--	--	--	--	--	--
4924	V	46.23	--	1.18	47.41	--	74	54	-6.59
7386	V	42.00	--	10.07	52.07	--	74	54	-1.93
--	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.

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