

FCC Test Report

FCC ID : U720LYM

Equipment : Olympus WiFi Module

Model No. : OLYM

Brand Name : Carestream

Applicant : Carestream Health, Inc.

Address : 150 Verona Street, Rochester, New York

United States 14608

Standard : 47 CFR FCC Part 15.247

Received Date : Nov. 12, 2018

Tested Date : Nov. 22 ~ Dec. 11, 2018

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Cheid/ Assistant Manager Gary Chang / Manager

Testing Laboratory

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Release Record

Report No.	Version	Description	Issued Date
FR8N1203AC	Rev. 01	Initial issue	Feb. 20, 2019

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.360MHz 36.70 (Margin -12.04dB) - AV	Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz	Pass
15.209	Natiated Liffissions	73.00 (Margin -1.00dB) - PK	rass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 25.54	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared values of gain for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the gain.

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1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS		
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps		
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps		
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15		
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15		

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.

Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.

Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Details

Ant.	Ant. Model Type Conn		Connector	Operating Frequency	uencies (MHz) / Ant	enna Gain (dBi)
No.	Model	Туре	Connector	2400~2483.5	5150~5250	5725~5850
1	ANTX600P00 1B24553	РСВ	ipex	4.6	4.9	5.1
2	ANTX350P00 1B24553	PCB	ipex	4.6	4.9	5.1

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc

1.1.4 Accessories

N/A

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1.1.5 Channel List

Frequenc	y band (MHz)	2400-	~2483.5	
802.11 b	/ g / n HT20	802.11n HT40		
Channel	Channel Frequency(MHz)		Frequency(MHz)	
1	2412	3	2422	
2	2417	4	2427	
3	2422	5	2432	
4	2427	6	2437	
5	2432	7	2442	
6	2437	8	2447	
7	2442	9	2452	
8	2447			
9	2452			
10	2457			
11	2462			

1.1.6 Test Tool and Duty Cycle

Test Tool	MP_Kit_RTL11ac_8822BU_USB, v0.54				
	Mode	Duty Cycle (%)	Duty Factor (dB)		
	11b	100.00%	0.00		
Duty Cycle and Duty Factor	11g	97.54%	0.11		
	HT20	96.94%	0.13		
	HT40	93.25%	0.30		

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1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	62/60
11b	2437	62/61
11b	2462	62/62
11g	2412	55/54
11g	2437	63/62
11g	2462	58/58
HT20	2412	53/52
HT20	2437	63/63
HT20	2462	57/57
HT40	2422	47/46
HT40	2437	55/55
HT40	2452	50/50

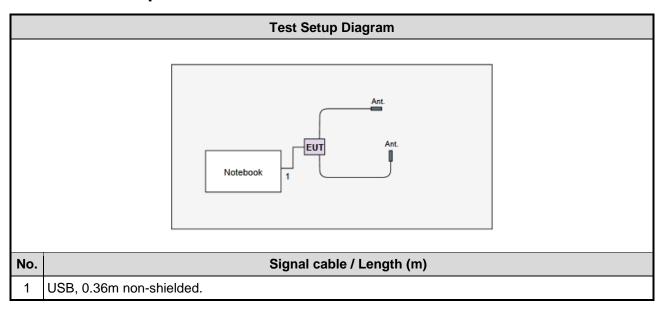
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1.2 Local Support Equipment List

	Support Equipment List					
No.	No. Equipment Brand Model FCC ID Remarks					
1	Notebook	DELL	Latitude E5470	DoC		

1.3 Test Setup Chart



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1.4 The Equipment List

Test Item	Conducted Emission							
Test Site	Conduction room 1 /	Conduction room 1 / (CO01-WS)						
Instrument	Manufacturer Model No. Serial No. Calibration Date Calibration Until							
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019			
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 05, 2018	Nov. 04, 2019			
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 18, 2017	Dec. 17, 2018			
Measurement Software AUDIX e3 6.120210k NA NA								
Note: Calibration Interval of instruments listed above is one year.								

Test Item	Radiated Emission					
Test Site	966 chamber 3 / (03C	H03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until	
Spectrum Analyzer	R&S	FSV40	101499	Jan. 03, 2018	Jan. 02, 2019	
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019	
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 19, 2018	Apr. 18, 2019	
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Jan. 18, 2018	Jan. 17, 2019	
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019	
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019	
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 08, 2018	Oct. 07, 2019	
Preamplifier	EMC	EMC02325	980187	Aug. 24, 2018	Aug. 23, 2019	
Preamplifier	Agilent	83017A	MY53270014	Aug. 09, 2018	Aug. 08, 2019	
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019	
RF cable-3M	EMC	EMC104-SM-SM-8000	181107	Oct. 30, 2018	Oct. 29, 2019	
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY32487/4	Oct. 30, 2018	Oct. 29, 2019	
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Oct. 30, 2018	Oct. 29, 2019	
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Oct. 30, 2018	Oct. 29, 2019	
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Oct. 30, 2018	Oct. 29, 2019	
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Oct. 30, 2018	Oct. 29, 2019	
Measurement Software	AUDIX	e3	6.120210g	NA	NA	
Note: Calibration Inter	rval of instruments liste	d above is one year.				

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Test Item	RF Conducted							
Test Site	(TH01-WS)							
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until			
Spectrum Analyzer	R&S	FSV40	101063	Apr. 16, 2018	Apr. 15, 2019			
Power Meter	Anritsu	ML2495A	1241002	Oct. 09, 2018	Oct. 08, 2019			
Power Sensor	Anritsu	MA2411B	1207366	Oct. 09, 2018	Oct. 08, 2019			
DC POWER SOURCE	GW INSTEK	GPC-6030D	EM892433	Oct. 25, 2018	Oct. 24, 2019			
Measurement Software	t Sporton Sporton_1 1.3.30 NA NA							
Note: Calibration Inte	rval of instruments liste	d above is one year.						

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty						
Parameters	Uncertainty					
Bandwidth	±34.134 Hz					
Conducted power	±0.808 dB					
Power density	±0.463 dB					
Conducted emission	±2.670 dB					
AC conducted emission	±2.90 dB					
Radiated emission ≤ 1GHz	±3.66 dB					
Radiated emission > 1GHz	±5.37 dB					

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	24°C / 59%	Steve Chin
Radiated Emissions	03CH03-WS	22-25°C / 62-66%	Akun Chung Aska Huang
RF Conducted	TH01-WS	19°C / 66%	Aska Huang

FCC Designation No.: TW0009
 FCC site registration No.: 207696
 IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	HT20	2437	MCS 0	
Radiated Emissions ≤1GHz	HT20	2437	MCS 0	
Radiated Emissions >1GHz Maximum Output Power 6dB bandwidth Power spectral density	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	

NOTE:

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.

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3 Transmitter Test Results

3.1 Conducted Emissions

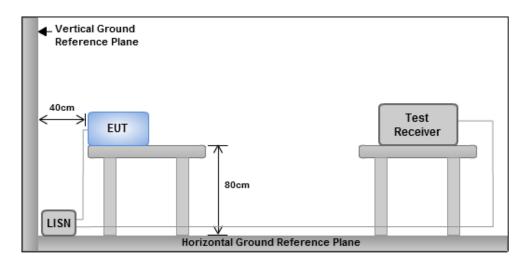
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit						
Frequency Emission (MHz) Quasi-Peak Average						
0.15-0.5 66 - 56 * 56 - 46 *						
0.5-5	56	46				
5-30 60 50						
Note 1: * Decreases with the logarithm of the frequency.						

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- 2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup



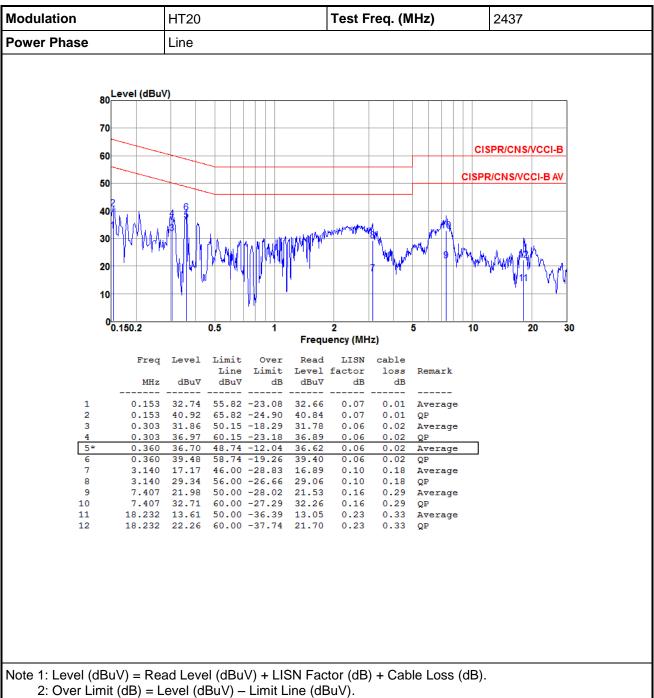
Note: 1. Support units were connected to second LISN.

Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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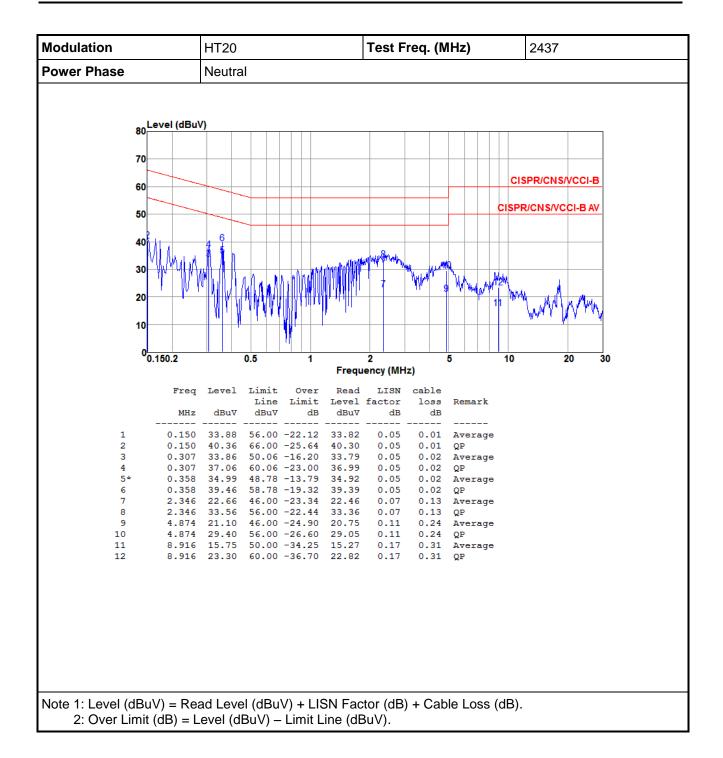


Test Result of Conducted Emissions 3.1.4



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3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

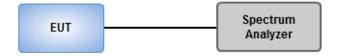
6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- 1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.2.3 Test Setup



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3.2.4 Test Result of 6dB and Occupied Bandwidth

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.072M	13.748M	13M7G1D	8.551M	13.459M
802.11g_Nss1,(6Mbps)_2TX	16.377M	16.57M	16M6D1D	16.087M	16.498M
802.11n HT20_Nss1,(MCS0)_2TX	16.957M	17.656M	17M7D1D	16.594M	17.511M
802.11n HT40_Nss1,(MCS0)_2TX	35.507M	36.469M	36M5D1D	35.217M	36.324M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth; **Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

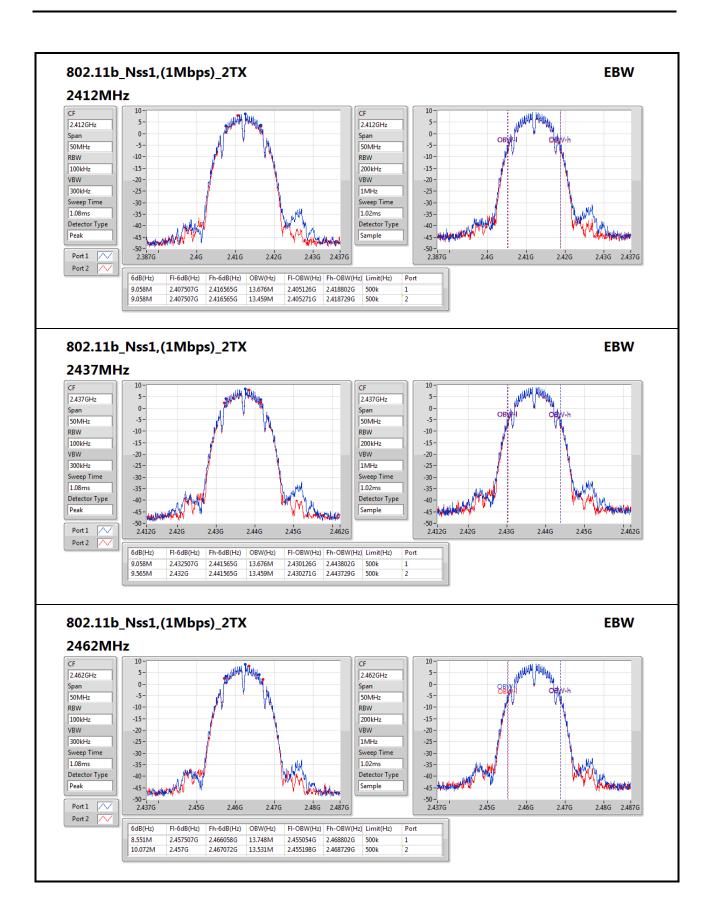
Result

Result	1			ı	<u> </u>	Г
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	9.058M	13.676M	9.058M	13.459M
2437MHz	Pass	500k	9.058M	13.676M	9.565M	13.459M
2462MHz	Pass	500k	8.551M	13.748M	10.072M	13.531M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.304M	16.498M	16.377M	16.498M
2437MHz	Pass	500k	16.304M	16.57M	16.087M	16.57M
2462MHz	Pass	500k	16.377M	16.498M	16.377M	16.498M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.957M	17.511M	16.957M	17.583M
2437MHz	Pass	500k	16.957M	17.656M	16.739M	17.656M
2462MHz	Pass	500k	16.594M	17.656M	16.957M	17.583M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.217M	36.324M	35.362M	36.324M
2437MHz	Pass	500k	35.507M	36.469M	35.217M	36.324M
2452MHz	Pass	500k	35.362M	36.324M	35.362M	36.324M

Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

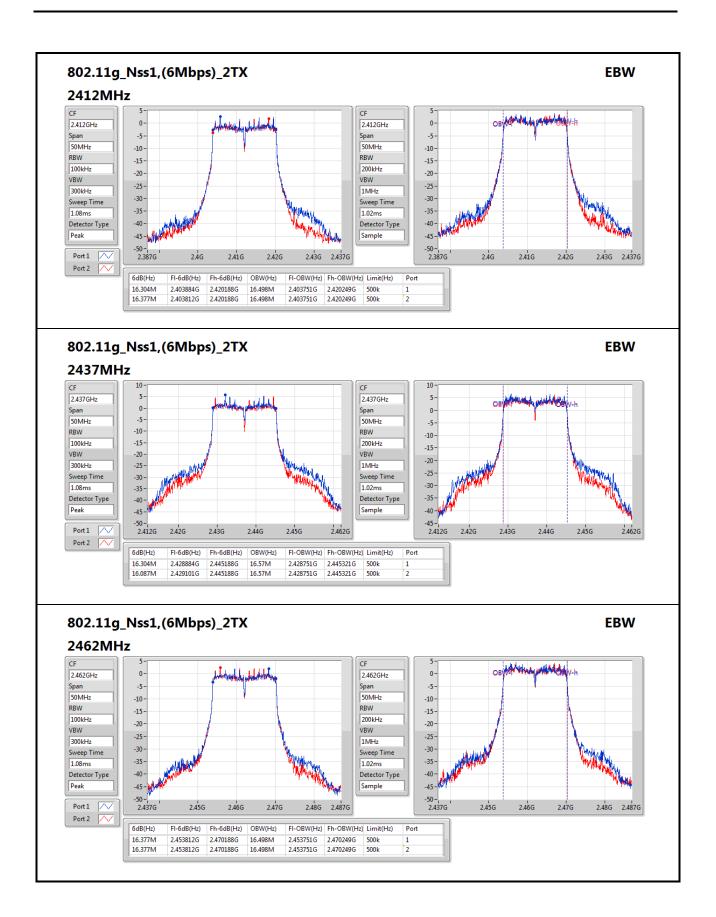
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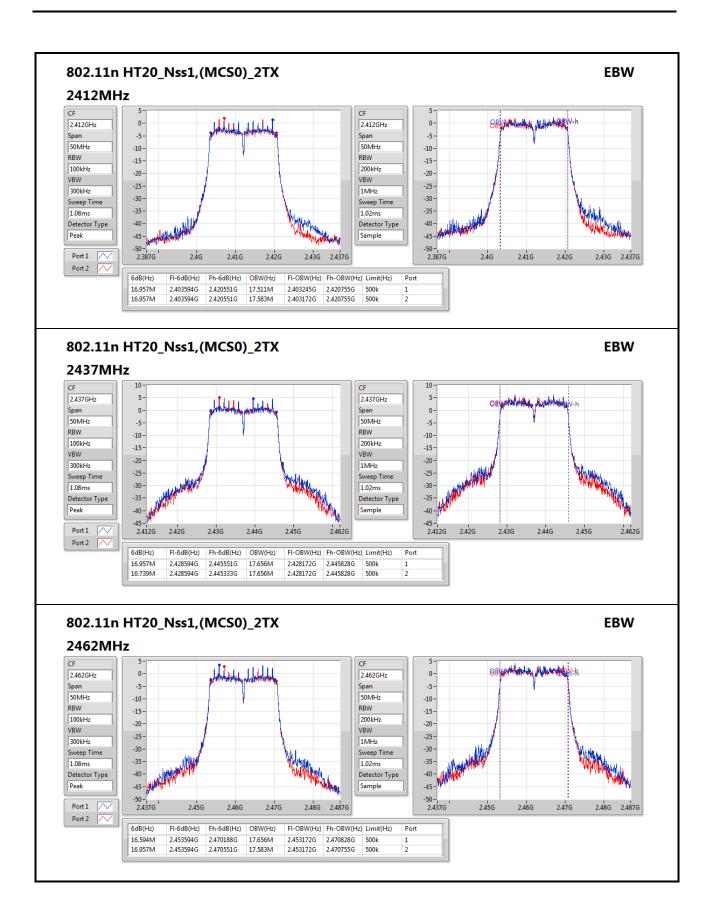
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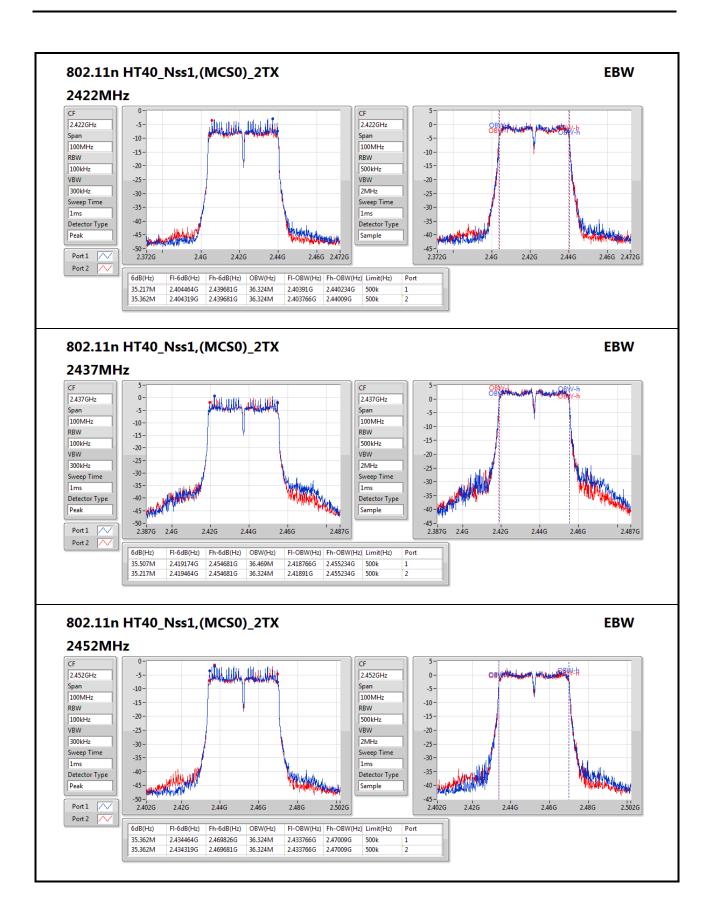
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3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



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3.3.4 Test Result of Maximum Output Power

Summary of Peak Conducted Output Power

Mode	Total Power	Total Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.19	0.20845
802.11g_Nss1,(6Mbps)_2TX	25.38	0.34514
802.11n HT20_Nss1,(MCS0)_2TX	25.54	0.35810
802.11n HT40_Nss1,(MCS0)_2TX	25.31	0.33963

Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit	EIRP	EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.60	20.11	20.01	23.07	30.00	27.67	36.00
2437MHz	Pass	4.60	20.20	20.15	23.19	30.00	27.79	36.00
2462MHz	Pass	4.60	20.18	20.11	23.16	30.00	27.76	36.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.60	21.25	21.64	24.46	30.00	29.06	36.00
2437MHz	Pass	4.60	22.45	22.29	25.38	30.00	29.98	36.00
2462MHz	Pass	4.60	21.65	22.16	24.92	30.00	29.52	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.60	21.39	20.85	24.14	30.00	28.74	36.00
2437MHz	Pass	4.60	22.55	22.50	25.54	30.00	30.14	36.00
2462MHz	Pass	4.60	21.59	21.32	24.47	30.00	29.07	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.60	18.22	19.02	21.65	30.00	26.25	36.00
2437MHz	Pass	4.60	22.35	22.24	25.31	30.00	29.91	36.00
2452MHz	Pass	4.60	21.15	21.15	24.16	30.00	28.76	36.00

DG = Directional Gain; **Port X** = Port X output power

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Summary of Conducted (Average) Output Power

Mode	Total Power	Total Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	20.64	0.11588
802.11g_Nss1,(6Mbps)_2TX	19.07	0.08072
802.11n HT20_Nss1,(MCS0)_2TX	19.03	0.07998
802.11n HT40_Nss1,(MCS0)_2TX	16.90	0.04898

Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit	EIRP	EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.60	17.67	17.41	20.55	-	25.15	-
2437MHz	Pass	4.60	17.63	17.58	20.62	-	25.22	-
2462MHz	Pass	4.60	17.65	17.60	20.64	-	25.24	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.60	13.55	13.40	16.49	-	21.09	-
2437MHz	Pass	4.60	16.11	16.01	19.07	-	23.67	-
2462MHz	Pass	4.60	14.62	14.59	17.62	-	22.22	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.60	12.44	12.55	15.51	-	20.11	-
2437MHz	Pass	4.60	16.03	16.01	19.03	-	23.63	-
2462MHz	Pass	4.60	14.06	13.89	16.99	-	21.59	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.60	10.29	10.11	13.21	-	17.81	-
2437MHz	Pass	4.60	14.02	13.76	16.90	-	21.50	-
2452MHz	Pass	4.60	11.80	11.65	14.74	-	19.34	-

DG = Directional Gain; **Port X** = Port X output power **Note** : **Conducted average output power is for reference only**

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3.4 Power Spectral Density

3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

Peak PSD

- 1. Set the RBW = 3 kHz, VBW = 10 kHz.
- 2. Detector = Peak, Sweep time = auto couple.
- 3. Trace mode = max hold, allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

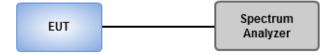
Average PSD, duty cycle ≥ 98%

- Set the RBW = 30 kHz, VBW = 100 kHz.
- 2. Detector = RMS, Sweep time = auto couple.
- 3. Sweep time = auto couple.
- 4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle < 98%

- 1 Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.
- Set the sweep time to: \geq 10 (number of measurement points in sweep) x (total on/off period of the transmitted signal).
- 3 Perform the measurement over a single sweep.
- 4 Use the peak marker function to determine the maximum amplitude level.
- 5 Add 10 log (1/x), where x is the duty cycle.

3.4.3 Test Setup



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3.4.4 Test Result of Power Spectral Density

Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-3.42
802.11g_Nss1,(6Mbps)_2TX	-6.22
802.11n HT20_Nss1,(MCS0)_2TX	-6.12
802.11n HT40_Nss1,(MCS0)_2TX	-11.74

Result

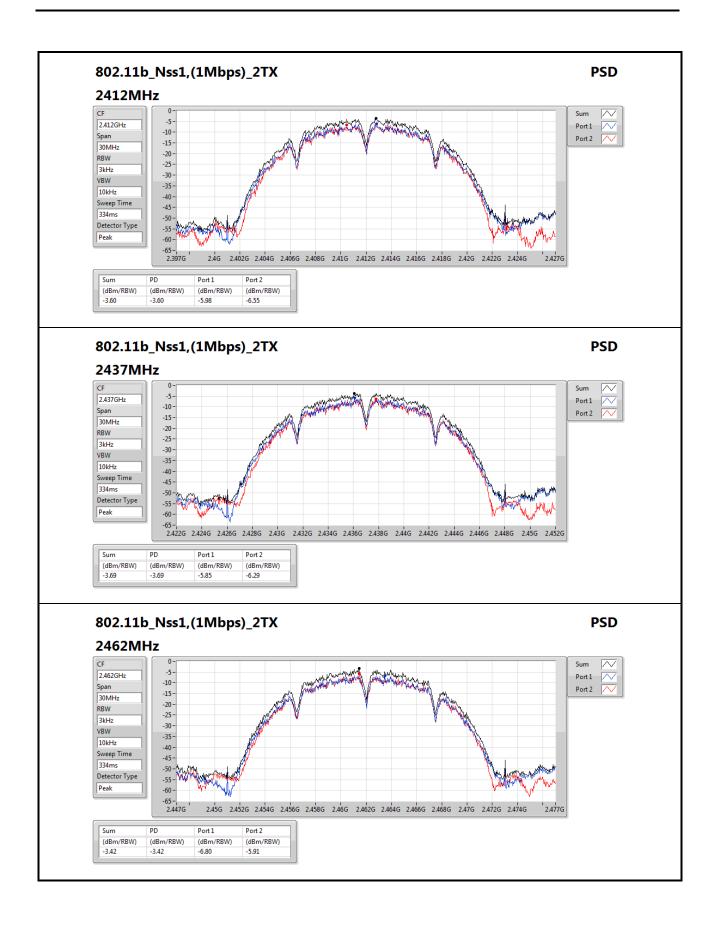
Mode	Result	DG	Port 1	Port 2	PD	PD Limit	
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	
2412MHz	Pass	7.61	-5.98	-6.55	-3.60	6.39	
2437MHz	Pass	7.61	-5.85	-6.29	-3.69	6.39	
2462MHz	Pass	7.61	-6.80	-5.91	-3.42	6.39	
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	
2412MHz	Pass	7.61	-11.53	-12.04	-8.77	6.39	
2437MHz	Pass	7.61	-8.63	-9.43	-6.22	6.39	
2462MHz	Pass	7.61	-11.36	-11.59	-8.56	6.39	
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	
2412MHz	Pass	7.61	-12.03	-12.14	-9.07	6.39	
2437MHz	Pass	7.61	-8.89	-9.39	-6.12	6.39	
2462MHz	Pass	7.61	-10.62	-10.93	-7.76	6.39	
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	
2422MHz	Pass	7.61	-18.22	-17.96	-15.08	6.39	
2437MHz	Pass	7.61	-14.68	-14.47	-11.74	6.39	
2452MHz	Pass	7.61	-16.69	-16.83	-13.84	6.39	

DG = Directional Gain;PD = trace bin-by-bin of each transmits port summing can be performed maximum power density;

Port X = Port X power density;
Directional gain = 4.6 + 10*log(2/1)= 7.61 dBi > 6dBi, Limit shall be reduced to 8 dBm - (7.61dBi - 6 dBi) = 6.39 dBm

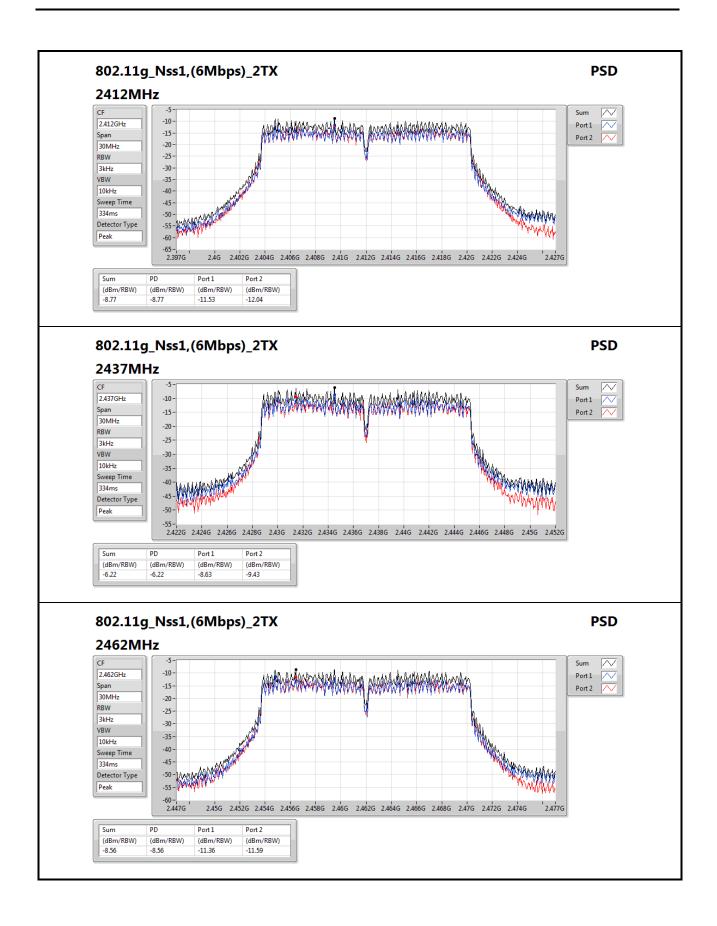
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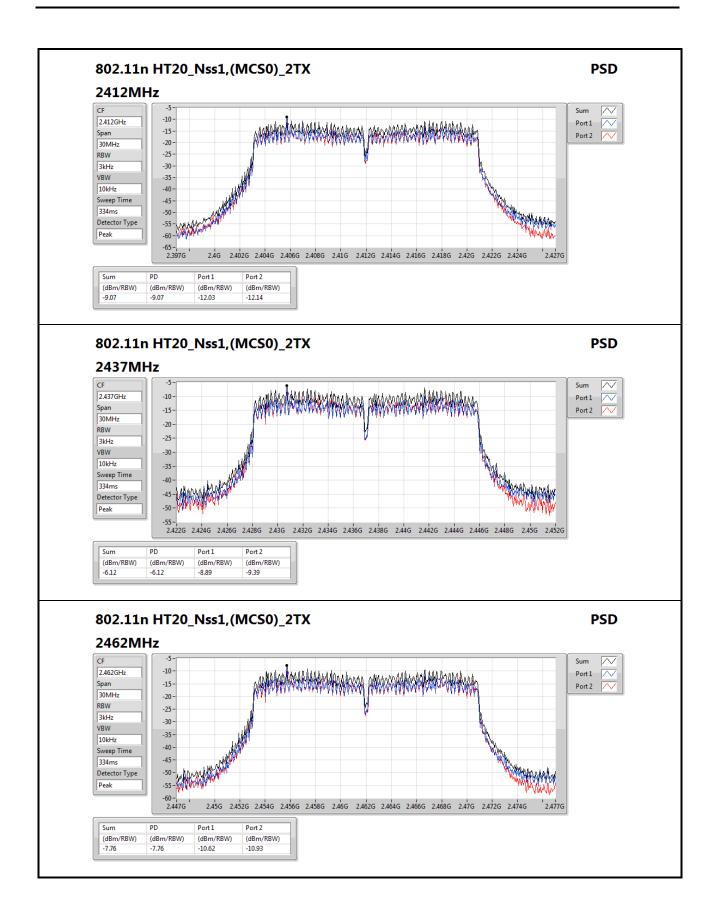
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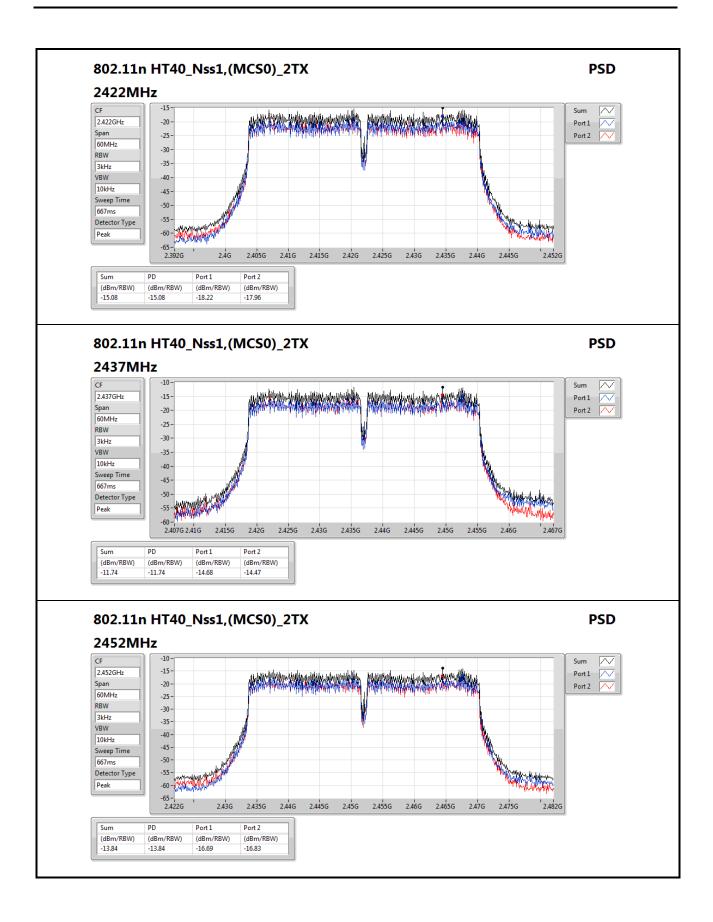
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3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit									
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)						
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300						
0.490~1.705	24000/F(kHz)	33.8 - 23	30						
1.705~30.0	30	29	30						
30~88	100	40	3						
88~216	150	43.5	3						
216~960	200	46	3						
Above 960	500	54	3						

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

- 1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

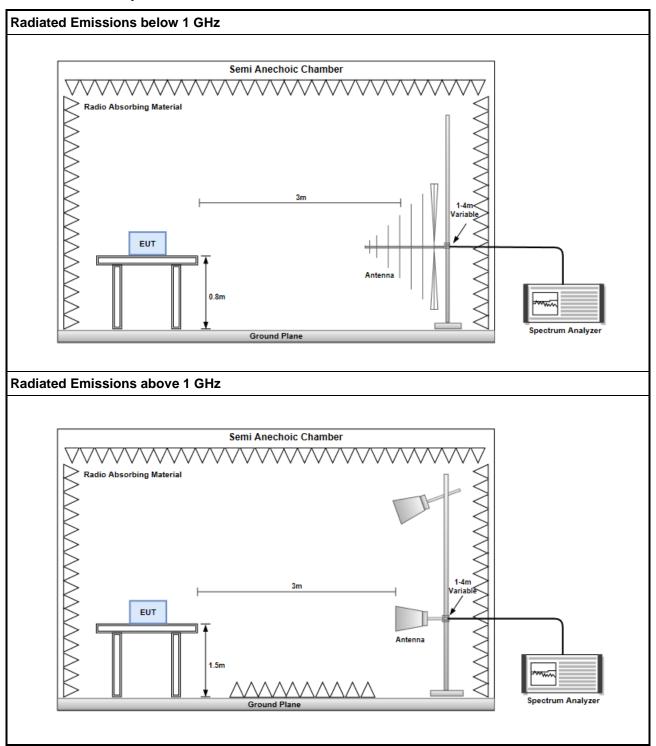
Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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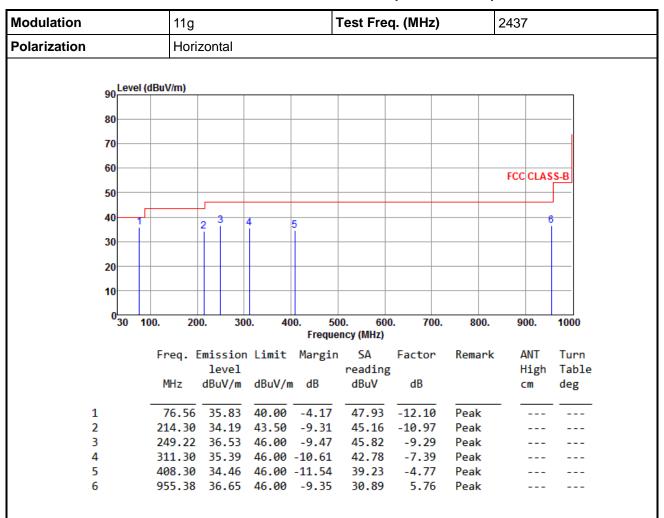
3.5.3 Test Setup



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3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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Modulation Polarization			11g	11g				Test Freq. (MHz)			2437	2437	
			Vertical										
	90L	eve	l (dBu	ıV/m)				I					
	80												
	80												
	70					-							
	60												
												FCC CL/	ASS-B
	50												6
	40					_							1
	30		1 2		3		4	5					
	50						ĺ						
	20					\neg							
	10					_							
	0												
	03	30	100.	20	0.	30	0. 40		00. 600 ency (MHz)	0. 700	. 800.	900.	1000
			F	rea. E	miss	ion	Limit	Margin	SA	Factor	Remark	ANT	Turn
				•	lev			J	reading	3		High	n Table
				MHz	dBuV	//m	dBuV/r	n dB	dBuV	dB		cm	deg
1			_	74.62	30.	<u> </u>	40.00	-9.50	42.13	-11.63	Peak		_
)			20.21	31.			-11.60	42.13	-10.82	Peak		
	3			55.04	29.			-16.01	39.14	-9.15	Peak		
4				11.30	27.			-18.23	35.16	-7.39	Peak		
-	5		4	08.30	31.	03	46.00	-14.97	35.80	-4.77	Peak		

34.93

5.76

Peak

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

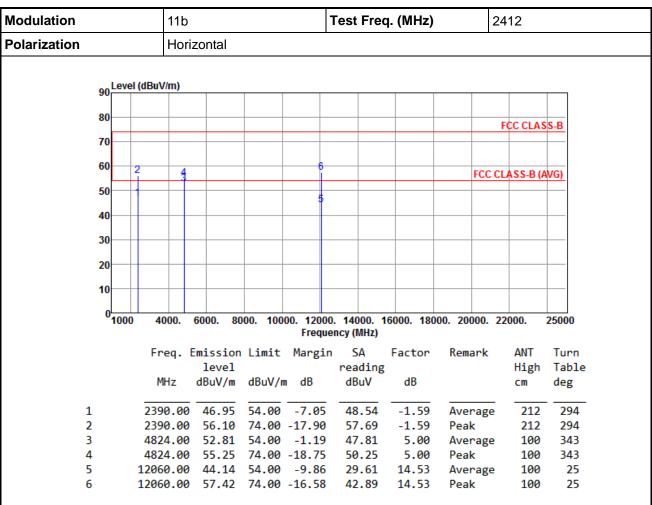
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

955.38 40.69 46.00 -5.31

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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

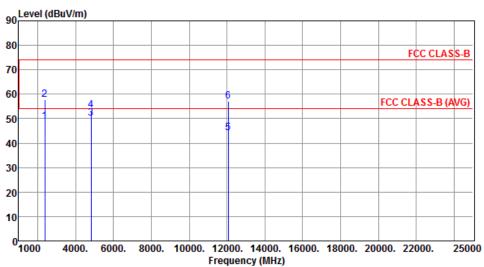
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		



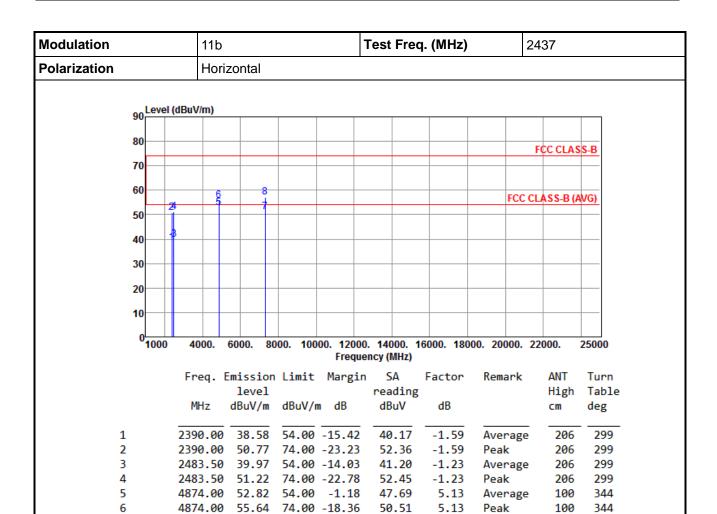
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2200 00	40.60	<u></u>	F 22		1.50	A	265	260
1	2390.00	48.68	54.00	-5.32	50.27	-1.59	Average	265	260
2	2390.00	57.86	74.00	-16.14	59.45	-1.59	Peak	265	260
3	4824.00	50.04	54.00	-3.96	45.04	5.00	Average	350	240
4	4824.00	53.35	74.00	-20.65	48.35	5.00	Peak	350	240
5	12060.00	44.19	54.00	-9.81	29.66	14.53	Average	100	58
6	12060.00	57.10	74.00	-16.90	42.57	14.53	Peak	100	58

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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7

8

7311.00

51.10

7311.00 57.22 74.00 -16.78

54.00 -2.90

41.18

47.30

9.92

9.92

Average

Peak

128

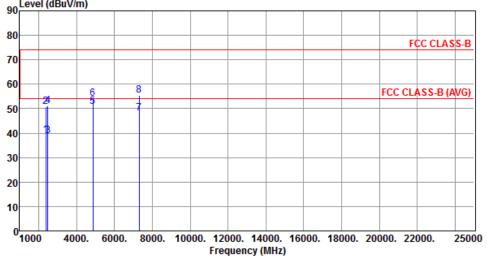
128

356

356



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
90 Level (dBu\	//m)		
90			

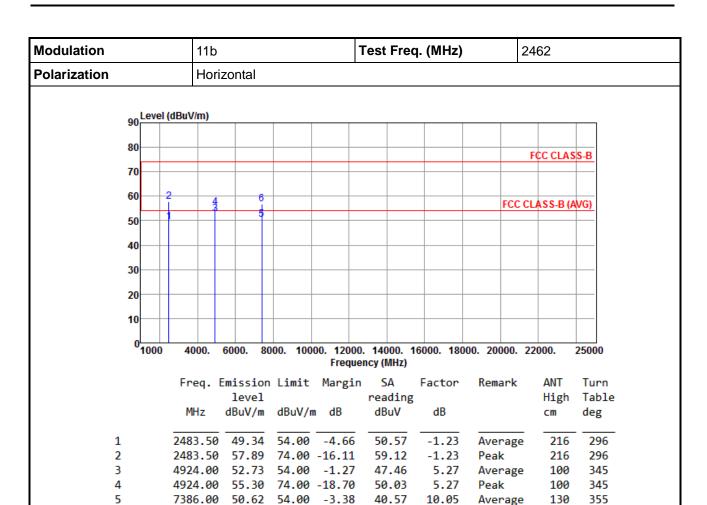


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.27	54.00	-14.73	40.86	-1.59	Average	262	271
2	2390.00	50.77	74.00	-23.23	52.36	-1.59	Peak	262	271
3	2483.50	38.98	54.00	-15.02	40.21	-1.23	Average	262	271
4	2483.50	51.14	74.00	-22.86	52.37	-1.23	Peak	262	271
5	4874.00	50.76	54.00	-3.24	45.63	5.13	Average	350	236
6	4874.00	54.17	74.00	-19.83	49.04	5.13	Peak	350	236
7	7311.00	48.26	54.00	-5.74	38.34	9.92	Average	100	94
8	7311.00	55.58	74.00	-18.42	45.66	9.92	Peak	100	94

*Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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46.58

10.05

Peak

130

355

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain

7386.00 56.63 74.00 -17.37

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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4

5

6

4924.00

7386.00

53.68

48.15

7386.00 55.46 74.00 -18.54

74.00 -20.32

54.00 -5.85

48.41

38.10

45.41

5.27

10.05

10.05

Peak

Peak

Average

350

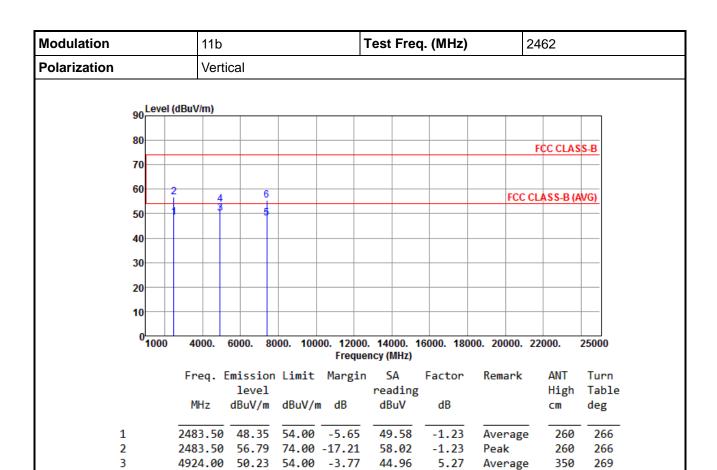
100

100

269

99

99



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

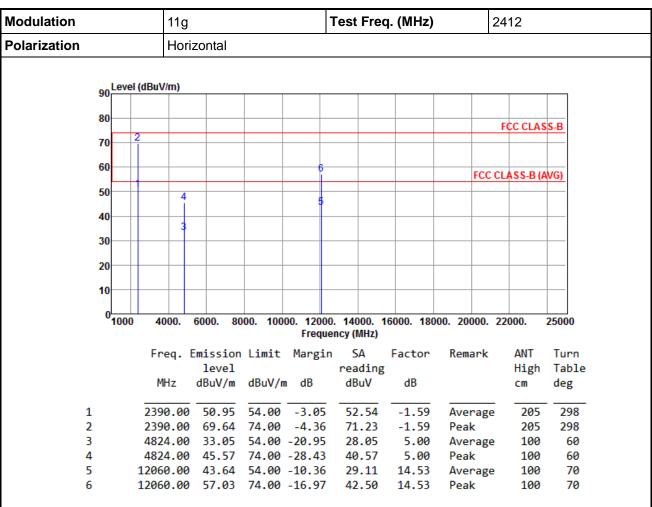
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

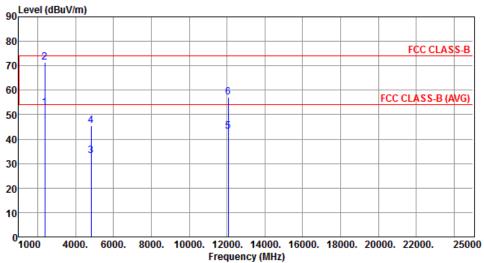
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		
90 Level (dBu\	//m)		

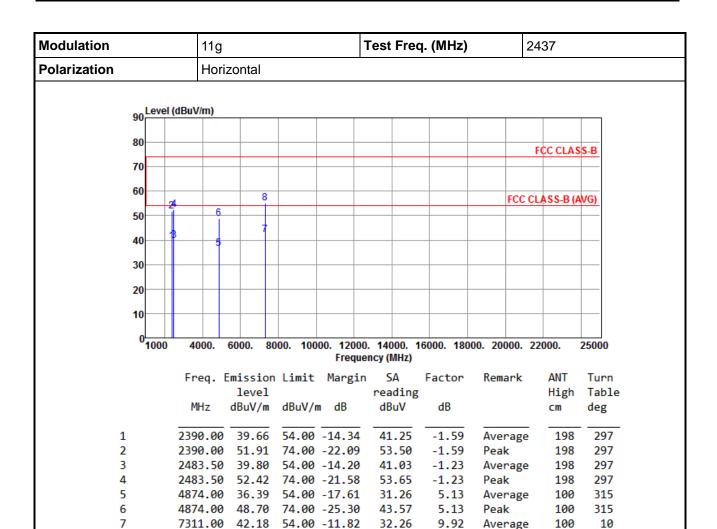


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
	11112	ubuv/III	ubuv/iii	ub	abav	ub		CIII	ueg
1	2390.00	52.84	54.00	-1.16	54.43	-1.59	Average	273	267
2	2390.00	71.27	74.00	-2.73	72.86	-1.59	Peak	273	267
3	4824.00	33.12	54.00	-20.88	28.12	5.00	Average	100	20
4	4824.00	45.57	74.00	-28.43	40.57	5.00	Peak	100	20
5	12060.00	43.09	54.00	-10.91	28.56	14.53	Average	100	60
6	12060.00	57.09	74.00	-16.91	42.56	14.53	Peak	100	60

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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45.20

9.92

Peak

100

10

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

7311.00 55.12 74.00 -18.88

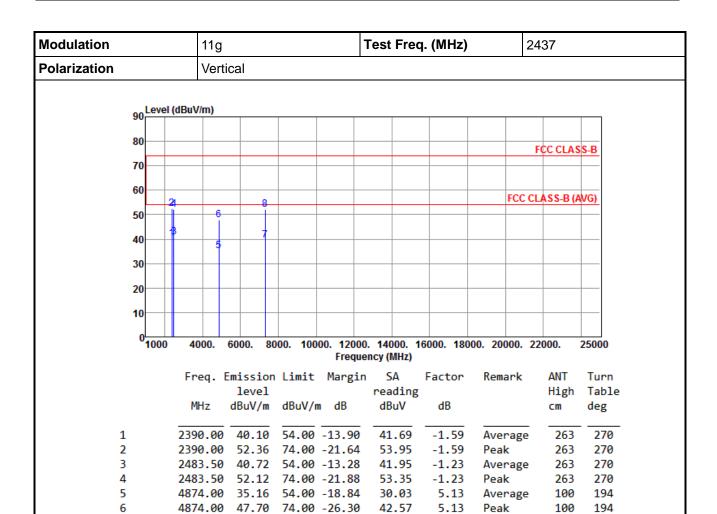
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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7

8

7311.00

39.45

7311.00 52.05 74.00 -21.95

54.00 -14.55

29.53

42.13

9.92

9.92

Average

Peak

100

100

30



Modulation		11g				1	est l	Freq.	. (MHz)		24	62	
Polarization		Hori	zontal								•		
90 Lev	/el (dBu	V/m)											
80—													
70	2										F	CC CLAS	S-B
70													
60	+						_				FCC CL	ASS-B (A	VG)
50	#	4		6									-
		Ιĩ											
40		3	1										
30													
20													
40													
10													
0 <mark>100</mark>	00 4	000.	6000.	8000.	10000.	12000. Freque			000. 180	00. 200	000. 22	000.	25000
	Fr	rea. I	Emissio	on Lim	it N				Factor	Rema	ark	ANT	Turn
			level				read					High	Tabl
	N	ИHz	dBuV/r	n dBu	V/m	dB	dBu	V	dB			cm	deg
1	248	33.50	51.72	54.	00 -	-2.28	52.	95	-1.23	Avei	rage	191	295
2		33.50				2.86	72.		-1.23	Peal	_	191	295
3			33.28			20.72	28.		5.27		rage	100	20
4			45.83 38.52				40. 28.		5.27 10.05	Peal		100 100	20 50
5 6			51.47				41.		10.05	Peal	rage k	100	50 50

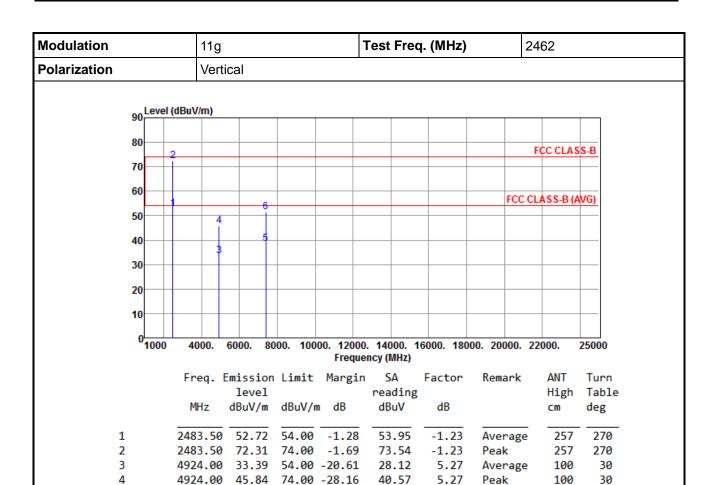
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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5

6

7386.00

38.64

7386.00 51.32 74.00 -22.68

54.00 -15.36

28.59

41.27

10.05

10.05

Average

Peak

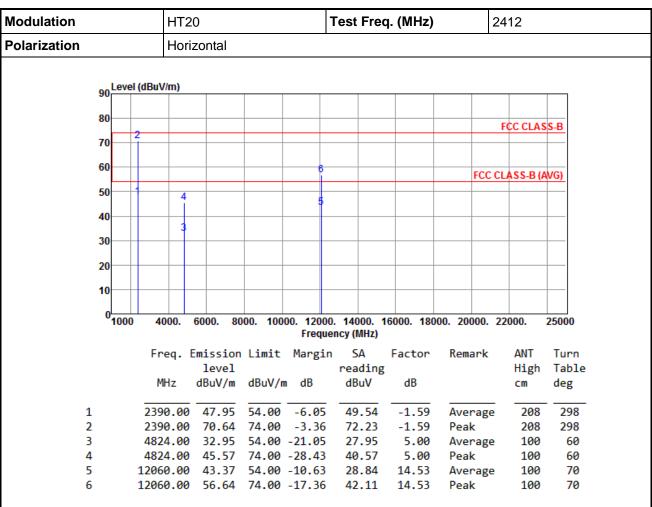
100

100

50



3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

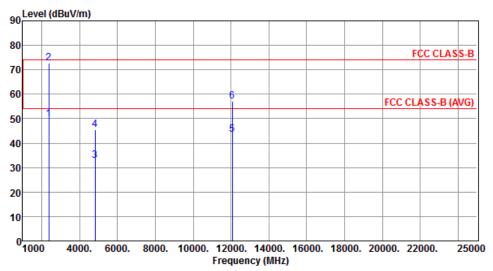
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



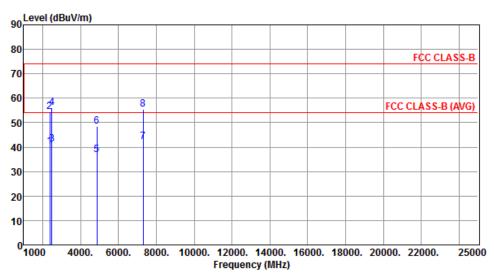
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	49.84	54.00	-4.16	51.43	-1.59	Average	274	266
2	2390.00	72.86	74.00	-1.14	74.45	-1.59	Peak	274	266
3	4824.00	33.04	54.00	-20.96	28.04	5.00	Average	100	100
4	4824.00	45.54	74.00	-28.46	40.54	5.00	Peak	100	100
5	12060.00	43.39	54.00	-10.61	28.86	14.53	Average	100	90
6	12060.00	57.08	74.00	-16.92	42.55	14.53	Peak	100	90

*Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



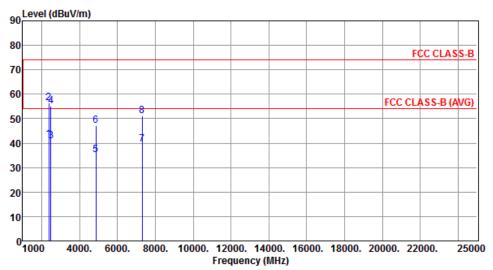
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	40.22	54.00	-13.78	41.81	-1.59	Average	204	296
2	2390.00	54.57	74.00	-19.43	56.16	-1.59	Peak	204	296
3	2483.50	41.07	54.00	-12.93	42.30	-1.23	Average	204	296
4	2483.50	56.01	74.00	-17.99	57.24	-1.23	Peak	204	296
5	4874.00	36.86	54.00	-17.14	31.73	5.13	Average	100	310
6	4874.00	48.64	74.00	-25.36	43.51	5.13	Peak	100	310
7	7311.00	42.04	54.00	-11.96	32.12	9.92	Average	100	6
8	7311.00	55.48	74.00	-18.52	45.56	9.92	Peak	100	6

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	41.50	54.00	-12.50	43.09	-1.59	Average	268	267
2	2390.00	56.53	74.00	-17.47	58.12	-1.59	Peak	268	267
3	2483.50	40.89	54.00	-13.11	42.12	-1.23	Average	268	267
4	2483.50	54.98	74.00	-19.02	56.21	-1.23	Peak	268	267
5	4874.00	35.13	54.00	-18.87	30.00	5.13	Average	100	195
6	4874.00	47.14	74.00	-26.86	42.01	5.13	Peak	100	195
7	7311.00	39.42	54.00	-14.58	29.50	9.92	Average	100	20
8	7311.00	51.25	74.00	-22.75	41.33	9.92	Peak	100	20

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation		HT2	0			7	est	Freq	. (MHz)		24	62	
Polarization		Hori	zontal			•					'		
90 Lev	/el (dBu	V/m)											
80—													
	2				_		-				F	CC CLAS	S-B
70													
60—											FCC CI	ASS-B (A	WGY
50				6							100 02	1) 0-001	, , , , , , , , , , , , , , , , , , ,
		4											
40		3											
30-					_								
20-													
10													
0 100	00 4	1000.	6000.	8000.	10000). 12000 Freque			6000. 180	00. 20	000. 22	000.	25000
	Fı	rea. F	missio	on Lir	nit	Margin			Factor	Rem	ark	ANT	Turn
		-4.	leve			6=		ling				High	Table
	1	MHz	dBuV/r	n dBu	ıV/m	dB	dBu	V	dB			cm	deg
1	248	83.50	50.03	54.	.00	-3.97	51.	26	-1.23	Ave	rage	191	297
2	248	83.50			.00	-1.16	74.		-1.23	Pea	_	191	297
3			33.39			20.61	28.		5.27		rage	100	20
4			45.62			28.38 15.40	40.	. 35 . 55	5.27 10.05	Pea		100	20 50
5 6			51.38				41.		10.05	Pea	rage k	100 100	50 50

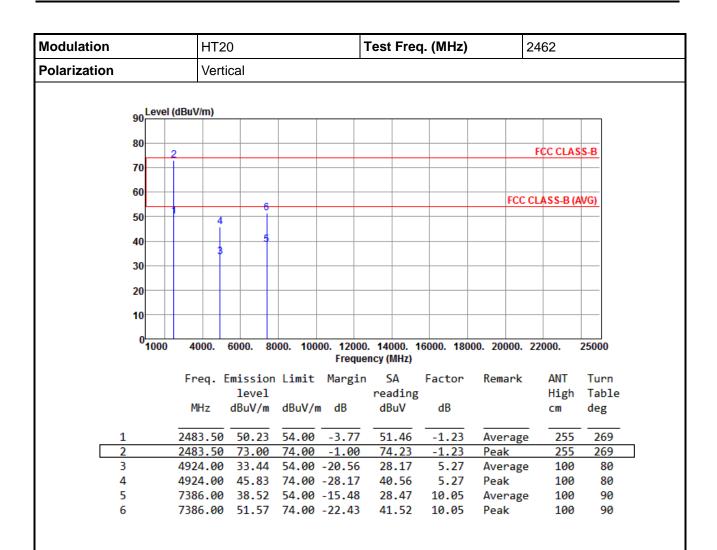
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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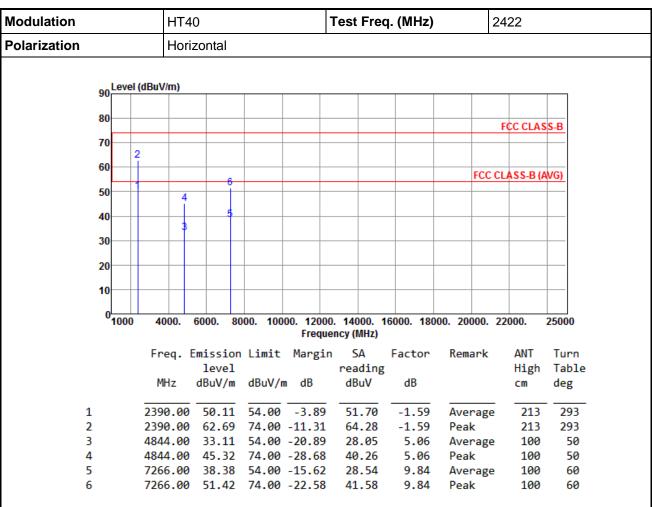
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

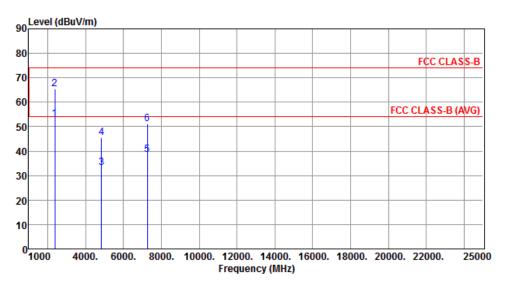
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		



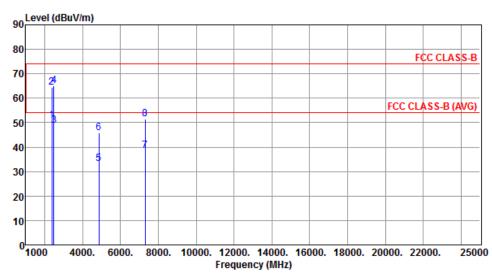
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	52.97	54.00	-1.03	54.56	-1.59	Average	275	268
2	2390.00	65.53	74.00	-8.47	67.12	-1.59	Peak	275	268
3	4844.00	33.07	54.00	-20.93	28.01	5.06	Average	100	20
4	4844.00	45.41	74.00	-28.59	40.35	5.06	Peak	100	20
5	7266.00	38.49	54.00	-15.51	28.65	9.84	Average	100	20
6	7266.00	51.10	74.00	-22.90	41.26	9.84	Peak	100	20

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



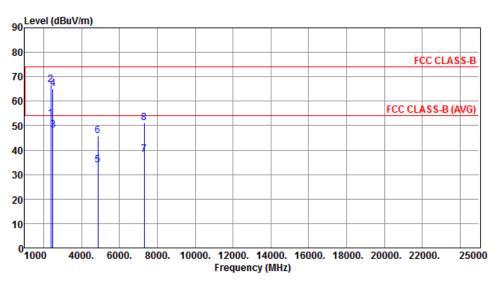
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	50.96	54.00	-3.04	52.55	-1.59	Average	202	295
2	2390.00	64.37	74.00	-9.63	65.96	-1.59	Peak	202	295
3	2483.50	48.82	54.00	-5.18	50.05	-1.23	Average	202	295
4	2483.50	65.04	74.00	-8.96	66.27	-1.23	Peak	202	295
5	4874.00	33.18	54.00	-20.82	28.05	5.13	Average	100	30
6	4874.00	45.70	74.00	-28.30	40.57	5.13	Peak	100	30
7	7311.00	38.60	54.00	-15.40	28.68	9.92	Average	100	90
8	7311.00	51.43	74.00	-22.57	41.51	9.92	Peak	100	90

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	52.72	54.00	-1.28	54.31	-1.59	Average	265	270
2	2390.00	66.81	74.00	-7.19	68.40	-1.59	Peak	265	270
3	2483.50	48.13	54.00	-5.87	49.36	-1.23	Average	265	270
4	2483.50	64.98	74.00	-9.02	66.21	-1.23	Peak	265	270
5	4874.00	33.79	54.00	-20.21	28.66	5.13	Average	100	50
6	4874.00	45.82	74.00	-28.18	40.69	5.13	Peak	100	50
7	7311.00	38.33	54.00	-15.67	28.41	9.92	Average	100	90
8	7311.00	51.26	74.00	-22.74	41.34	9.92	Peak	100	90

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation			H	HT40 Test Freq. (MHz) 2452														
Polarization			Horizontal															
	90 <mark>L</mark>	_evel (dBuV/m))											_			
	80	_													\perp			
	70	- 2	,													F	CC CLAS	S-B
	60					6									F	CC CL	ASS-B (A	VG)
	50			4		Ť												
	40					5									_			
	30			3														
	30																	
	20																	
	10																	
	0	1000	4000	. 60	000.	8000	. 100		12000. Freque			6000.	180	00.	2000	0. 22	000.	25000
			Enoa	Em	icci	on I	imi+		argin		ип <i>е,</i> А	Fact	ton	R.	emar	ak	ANT	Tur
			rreq		leve		111111	Pie	argin		n ding		COI	1/6	zillai	K	High	Tab
			MHz	d	BuV/	m d	Bu V /	m c	lВ	dB	uV	dl	В				cm	deg
1			2483.	 50	51.1	 8 5	4.00	-2	2.82	52	.41	-1	.23	A۱	vera	age	204	29
2			2483.	50	67.7		4.00		5.30		.93		.23	Pe	eak	_	204	29
3			4904.		33.2		4.00				.98		.22		vera	_	100	5
4			4904.								.21		.22		eak		100	5
5 6			7356.0								.65 .69		.99 .99		vera eak	_	100 100	6

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

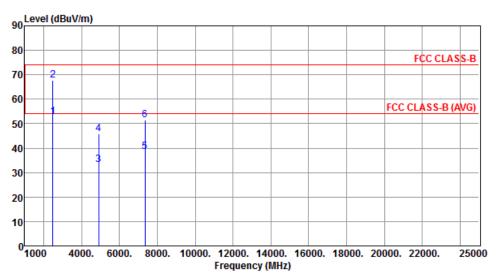
*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		



	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2483.50	52.86	54.00	-1.14	54.09	-1.23	Average	266	259
2	2483.50	67.82	74.00	-6.18	69.05	-1.23	Peak	266	259
3	4904.00	33.24	54.00	-20.76	28.02	5.22	Average	100	30
4	4904.00	45.80	74.00	-28.20	40.58	5.22	Peak	100	30
5	7356.00	38.44	54.00	-15.56	28.45	9.99	Average	100	60
6	7356.00	51.55	74.00	-22.45	41.56	9.99	Peak	100	60

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power 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.

3.6.2 Test Procedures

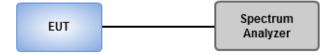
Reference level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 25GHz
- 4. Use the peak marker function to determine the maximum amplitude level

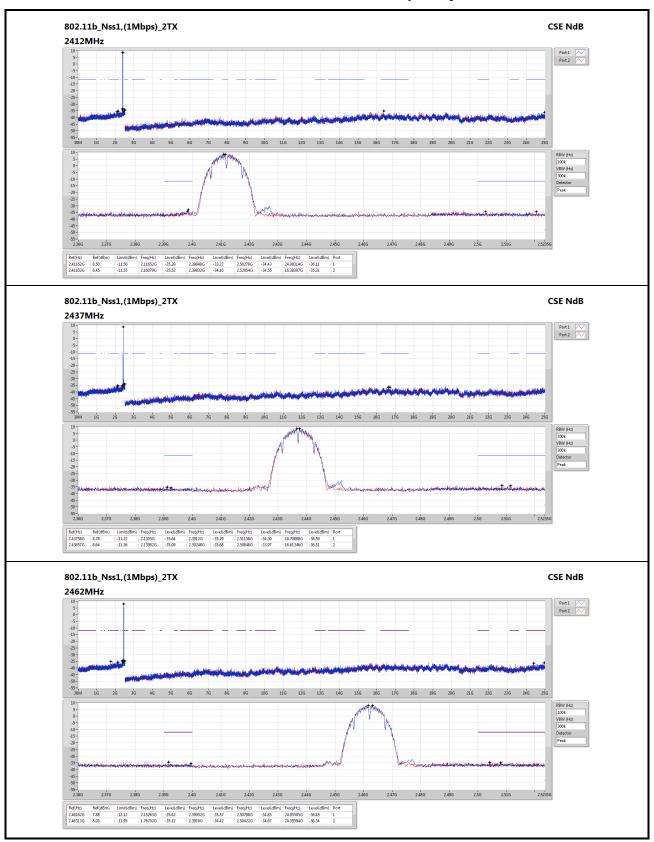
3.6.3 Test Setup



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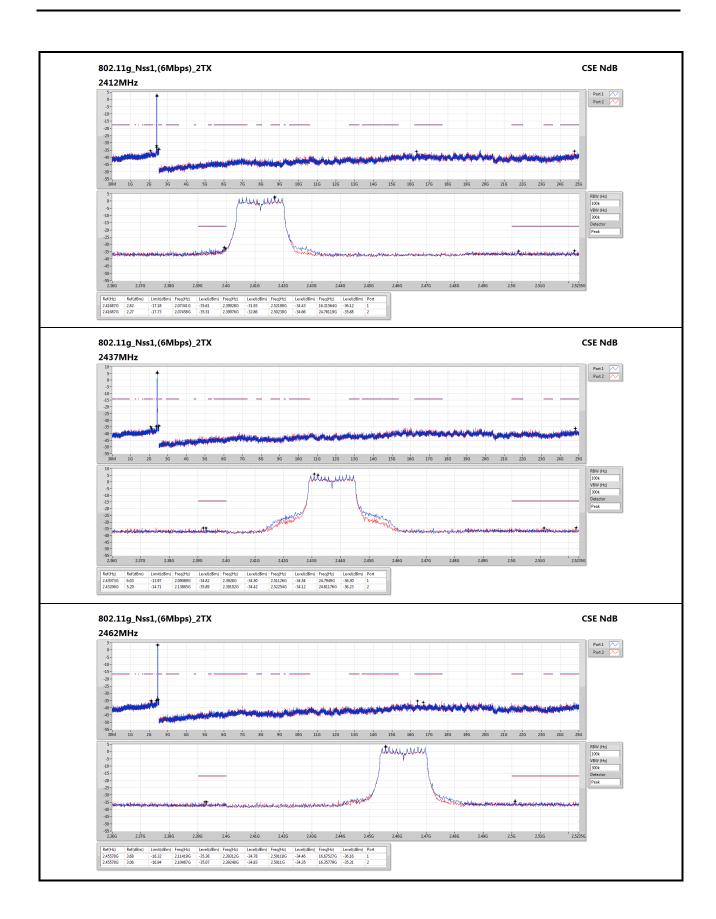


3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands



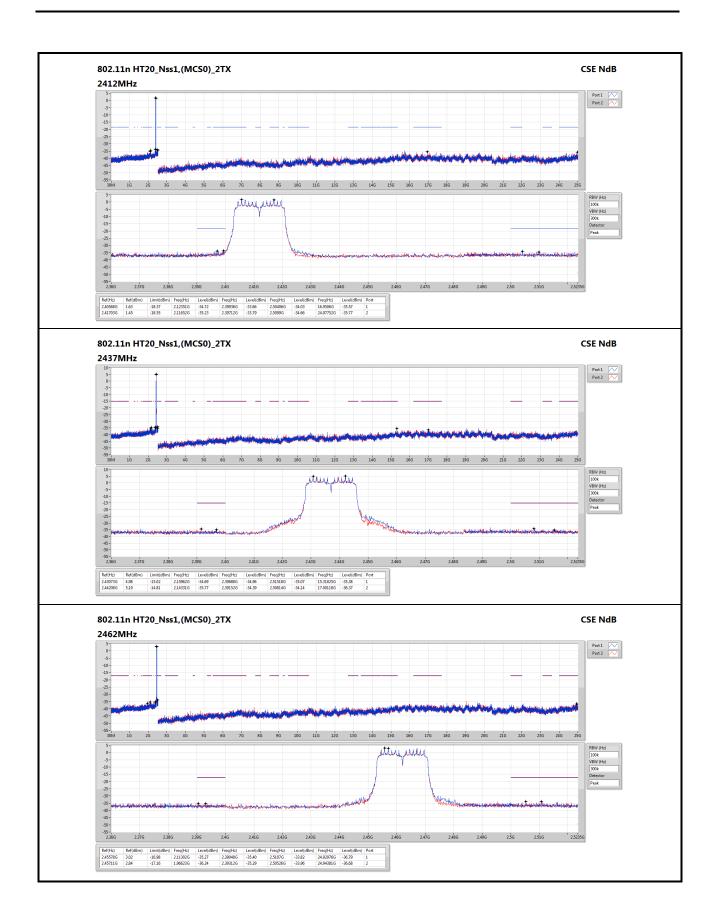
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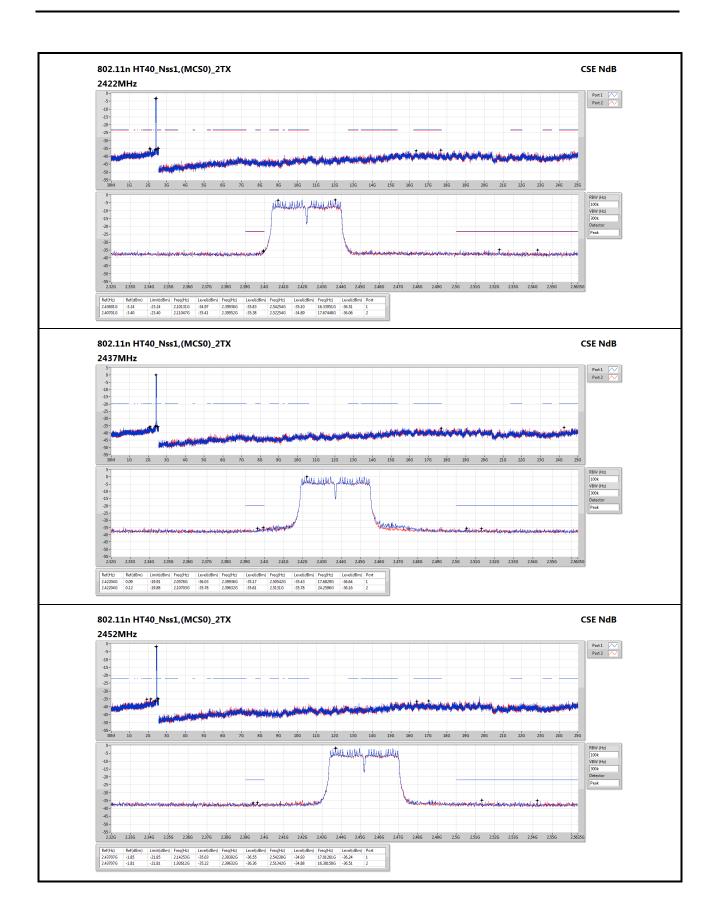
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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640 No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City,

Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

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