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No.: DM119349

**Applicant:** Intracom Asia Co., Ltd.

4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei

City 221, Taiwan

Manufacturer: Intracom Asia Co., Ltd.

4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei

City 221, Taiwan

**Description of Sample(s):** Submitted sample(s) said to be

Product: Mini 300N Wireless Adapter

Brand Name: Manhattan Model Number: 525527

FCC ID: 2ADQY525527

**Date Sample(s) Received:** 2015-05-04

**Date Tested:** 2015-05-10 to 2015-05-12

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 and ANSI C63.4:2009 for FCC Certification.

**Conclusion(s):** The submitted product COMPLIED with the requirements of

Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this

Test Report.

**Remark**(s): ---

LONG Yun Jian, Along

Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
STC (Dongguan) Company Limited



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## STC (Dongguan) Company Limited

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#### 1.0 General Details

#### 1.1 Test Laboratory

STC (Dongguan) Company Limited

**EMC Laboratory** 

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China

Telephone: (86 769) 81119888 Fax: (86 769) 81116222

# 1.2 Equipment Under Test [EUT] Description of Sample(s)

Product: Mini 300N Wireless Adapter Manufacturer: Intracom Asia Co., Ltd.

4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei

City 221, Taiwan

Brand Name: Manhattan Model Number: 525527

Rating: 5Vd.c. by PC USB Port

## 1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Mini 300N Wireless Adapter of Intracom Asia Co., Ltd., the transmission signal is digital modulated with channel frequency range 2412-2462MHz.. Transmit continuously with 100% duty cycle.

#### 1.3 Date of Order

2015-05-04

## 1.4 Submitted Sample(s):

1 Sample

## 1.5 Test Duration

2015-05-10 to 2015-05-12

## 1.6 Country of Origin

China



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# 2.0 Technical Details

## 2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 Regulations and ANSI C63.4:2009 for FCC Certification.

## 2.2 Test Standards and Results Summary Tables

EMISSION											
	Results Summary										
Test Condition	Test Requirement	Test Method	Class /	T	est Resi	ılt					
			Severity	Pass	Fail	N/A					
Output Power of Fundamental Emissions	FCC 47CFR 15.247(b)(3)	ANSI C63.4:2009	N/A								
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	$\boxtimes$							
Conducted Emissions	FCC 47CFR 15.207	ANSI C63.4:2009	N/A	$\boxtimes$							
Power Spectral Density	FCC 47CFR 15.247(e)	N/A	N/A	$\boxtimes$							
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	N/A	N/A	$\boxtimes$							
Band Edge Emissions	FCC 47CFR 15.247(d)	N/A	N/A	$\boxtimes$							
RF Exposure	FCC 47CFR 15.247(i)	N/A	N/A	$\boxtimes$							

Note: N/A - Not Applicable



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#### 3.0 Test Results

#### 3.1 Emission

#### 3.1.1 Maximum Peak Output Power

Test Requirement: FCC 47CFR 15.247(b)(3)

Test Method: N/A
Test Date: 2015-05-11
Mode of Operation: WiFi mode

#### **Test Method:**

The RF output of the EUT was connected to the peak power meter. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in mW.

The testing follows the Measurement Procedure of FCC KDB 558074 DTS D01 Meas. Guidance v03r02.

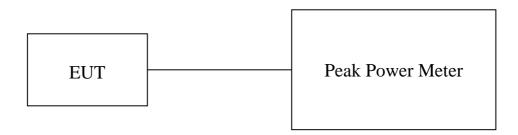
For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

802.11N transmit signals are correlated with each other.

Directional gain = Antenna Gain + beamforming Gain

Description							
802.11b	☐With Beamforming	⊠Without Beamforming					
802.11g	□With Beamforming	⊠Without Beamforming					
802.11n	⊠With Beamforming	□Without Beamforming					

#### **Test Setup:**





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Middle

High

2437

2462

# Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

12.222

12.219

Results of WiFi Tx Mode 802.11 b, (2412MHz to 2462MHz) : Pass (TX Unit)  Maximum conducted output power (Antenna A)								
Channel	Frequency	Result	Antenna Gain	Output Power	<b>Output Power</b>			
	(MHz)	(dBm)	(dBi)	(dBm)	(Watt)			
Low	2412	12.302		14.302	0.026928			

2

14.222

14.219

0.026436

0.026418

		1 b, (2412MHz to ower (Antenna B	o 2462MHz) : Pas	ss (TX Unit)				
Channel Frequency Result Antenna Gain Output Power Output Power								

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	13.812		15.812	0.038124
Middle	2437	13.691	2	15.691	0.037077
High	2462	13.584		15.584	0.036174

Results of WiFi Tx Mode 802.11 g, (2412MHz to 2462MHz) : Pass (TX Unit)  Maximum conducted output power (Antenna A)								
Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)			
Low	2412	12.115		14.115	0.025793			
Middle	2437	12.098	2	14.098	0.025692			
High	2462	12.206		14.206	0.026339			

Results of WiFi Tx Mode 802.11 g, (2412MHz to 2462MHz) : Pass (TX Unit) Maximum conducted output power (Antenna B)								
Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)			
Low	2412	13.412		15.412	0.033978			
Middle	2437	13.295	2	15.295	0.033845			
High	2462	13.037		15.037	0.031893			

## Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

## STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code: 523 770)

Tel: (86 769) 8111 9888 Fax: (86 769) 8111 6222 E-mail: dgstc@dgstc.org Homepage: www.dgstc.org



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# Results of WiFi Tx Mode 802.11 N20, (2412MHz to 2462MHz) : Pass (TX Unit) Maximum conducted output power (Antenna A)

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	8.658		10.658	0.011637
Middle	2437	8.594	2	10.594	0.011467
High	2462	8.580		10.580	0.011429

# Results of WiFi Tx Mode 802.11 N20, (2412MHz to 2462MHz): Pass (TX Unit) Maximum conducted output power (Antenna B)

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	9.758		11.758	0.014988
Middle	2437	9.733	2	11.733	0.014903
High	2462	9.731		11.731	0.014898

# Results of WiFi Tx Mode 802.11 N40, (2422MHz to 2452MHz): Pass (TX Unit) Maximum conducted output power (Antenna A)

Channel	Frequency	Result	Antenna Gain	Output Power	Output Power
	(MHz)	(dBm)	(dBi)	(dBm)	(Watt)
Low	2422	7.772		9.772	0.009488
Middle	2437	7.748	2	9.748	0.009437
High	2452	7.735		9.735	0.009407

# Results of WiFi Tx Mode 802.11 N40, (2422MHz to 2452MHz) : Pass (TX Unit) Maximum conducted output power (Antenna B)

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2422	8.874		10.874	0.012229
Middle	2437	8.864	2	10.864	0.012200
High	2452	8.895		10.895	0.012289

#### Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of WiFi Tx Mode 802.11 n20, (2412MHz to 2462MHz): Pass (TX Unit)

#### STC (Dongguan) Company Limited

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Maximum	Maximum conducted output power (Antenna A+B) (MIMO)									
ChannelFrequency (MHz)Result (dBm)Antenna GainBeamforming GainOutput PowerOutput PowerOuput A + B(dBi)(dB)(dBm)(Watt)										
Low	2412	12.253			17.253	0.053125				
Middle	2437	12.211	2	3	17.211	0.052614				
High	2462	12.204			17.204	0.052529				

Results of WiFi Tx Mode 802.11 n40, (2422MHz to 2452MHz): Pass (TX Unit)  Maximum conducted output power (Antenna A+B) (MIMO)									
Channel	ChannelFrequency (MHz)Result (dBm)Antenna GainBeamforming GainOutput PowerOutput PowerOuput A + B(dBi)(dB)(dBm)(Watt)								
Low	2422	11.368			16.368	0.043331			
Middle	2437	11.352	2 3 16.352 0.0431						
High	2452	11.364			16.364	0.043291			

 $\label{eq:Beamforming Gain = 10 log(N_{ANT}) dB,} \\ \text{Directional gain=5 dBi=Antnena Gain+Beamforming Gain where } N_{ANT} = \text{number of transmit antennas.} \\$ 

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB

1GHz to 26GHz 1.7dB



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#### 3.1.2 Radiated Emissions

Test Requirement: FCC 47CFR 15.209
Test Method: ANSI C63.4:2009
Test Date: 2015-05-11

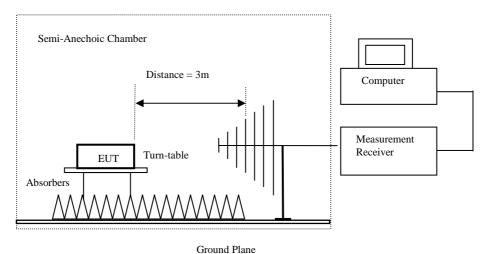
Mode of Operation: Tx mode / WiFi mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane of semi-anechoic 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 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.

\* Semi-anechoic chamber located on the G/F of "STC (Dongguan) Company Limited" with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

#### **Test Setup:**



Absorbers placed on top of the ground plane are for measurements above  $1000 \mathrm{MHz}$  only.



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**Limits for Radiated Emissions [FCC 47 CFR 15.247 Class B]:** 

Emilia for Radiated Emissions [1 ee 47 er R 1	
Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

## Result of Tx mode (2412.0 MHz) (802.11b) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
	Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
	Emissions detected are more than 20 dB below the FCC Limits							

## Results of Tx mode (2412.0 MHz) (802.11b) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
	Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
Emissions detected are more than 20 dB below the FCC Limits								

## Result of Tx mode (2412.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4824.0	14.5	41.5	56.0	74.0	18.0	Vertical			
4824.0	13.8	42.4	56.2	74.0	17.8	Horizontal			
7236.0	10.1	45.1	55.2	74.0	18.8	Vertical			
7236.0	9.2	46.2	55.4	74.0	18.6	Horizontal			
9648.0	7.1	48	55.1	74.0	18.9	Vertical			
9648.0	5.6	48.8	54.4	74.0	19.6	Horizontal			
12060.0	4.0	51.5	55.5	74.0	18.5	Vertical			
12060.0	2.4	52.4	54.8	74.0	19.2	Horizontal			



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## Result of Tx mode (2412.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4824.0	2.8	41.5	44.3	54.0	9.7	Vertical			
4824.0	-0.3	42.4	42.1	54.0	11.9	Horizontal			
7236.0	-2.6	45.1	42.5	54.0	11.5	Vertical			
7236.0	-4.6	46.2	41.6	54.0	12.4	Horizontal			
9648.0	-6.0	48	42.0	54.0	12.0	Vertical			
9648.0	-7.2	48.8	41.6	54.0	12.4	Horizontal			
12060.0	-10.4	51.5	41.1	54.0	12.9	Vertical			
12060.0	-10.1	52.4	42.3	54.0	11.7	Horizontal			



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# Result of Tx mode (2437.0 MHz) (802.11b) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
	Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
Emissions detected are more than 20 dB below the FCC Limits								

## Results of Tx mode (2437.0 MHz) (802.11b) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
	Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
	Emissions detected are more than 20 dB below the FCC Limits							

## Result of Tx mode (2437.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	$dB\mu V/m$				
4874.0	14.7	41.6	56.3	74.0	17.7	Vertical			
4874.0	13.6	42.5	56.1	74.0	17.9	Horizontal			
7311.0	10.1	45.2	55.3	74.0	18.7	Vertical			
7311.0	9.3	46.3	55.6	74.0	18.4	Horizontal			
9748.0	7.0	48.1	55.1	74.0	18.9	Vertical			
9748.0	7.4	48.9	56.3	74.0	17.7	Horizontal			
12185.0	3.9	51.6	55.5	74.0	18.5	Vertical			
12185.0	2.5	52.5	55.0	74.0	19.0	Horizontal			



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# Result of Tx mode (2437.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	0.9	41.6	42.5	54.0	11.5	Vertical			
4874.0	0.4	42.5	42.9	54.0	11.1	Horizontal			
7311.0	-2.8	45.2	42.4	54.0	11.6	Vertical			
7311.0	-4.2	46.3	42.1	54.0	11.9	Horizontal			
9748.0	-6.3	48.1	41.8	54.0	12.2	Vertical			
9748.0	-6.9	48.9	42.0	54.0	12.0	Horizontal			
12185.0	-10.2	51.6	41.4	54.0	12.6	Vertical			
12185.0	-9.9	52.5	42.6	54.0	11.4	Horizontal			



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# Result of Tx mode (2462.0 MHz) (802.11b) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
	Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
	Emissions detected are more than 20 dB below the FCC Limits							

## Results of Tx mode (2462.0 MHz) (802.11b) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
Quasi-Peak Value								
Frequency	Frequency Measured Correction Field Field Limit E-Field							
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
	Emissions detected are more than 20 dB below the FCC Limits							

## Result of Tx mode (2462.0 MHz) (802.11b) (Above 1GHz): Pass

		Field Streng	th of Spuriou	s Emissions				
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @ 3m	Factor	Strength	@ 3m		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
4924.0	15.2	41.4	56.6	74.0	17.4	Vertical		
4924.0	12.6	42.7	55.3	74.0	18.7	Horizontal		
7386.0	8.6	45.6	54.2	74.0	19.8	Vertical		
7386.0	7.9	46.5	54.4	74.0	19.6	Horizontal		
9848.0	6.4	48.6	55.0	74.0	19.0	Vertical		
9848.0	4.5	49.7	54.2	74.0	19.8	Horizontal		
12310.0	3.6	51.7	55.3	74.0	18.7	Vertical		
12310.0	2.8	52.7	55.5	74.0	18.5	Horizontal		



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# Result of Tx mode (2462.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4924.0	0.7	41.4	42.1	54.0	11.9	Vertical			
4924.0	-0.1	42.7	42.6	54.0	11.4	Horizontal			
7386.0	-4.3	45.6	41.3	54.0	12.7	Vertical			
7386.0	-5.5	46.5	41.0	54.0	13.0	Horizontal			
9848.0	-6.2	48.6	42.4	54.0	11.6	Vertical			
9848.0	-8.4	49.7	41.3	54.0	12.7	Horizontal			
12310.0	-10.6	51.7	41.1	54.0	12.9	Vertical			
12310.0	-11.7	52.7	41.0	54.0	13.0	Horizontal			



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# Result of Tx mode (2412.0 MHz) (802.11g) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Results of Tx mode (2412.0 MHz) (802.11g) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2412.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4824.0	14.9	41.5	56.4	74.0	17.6	Vertical			
4824.0	12.7	42.4	55.1	74.0	18.9	Horizontal			
7236.0	10.8	45.1	55.9	74.0	18.1	Vertical			
7236.0	8.1	46.2	54.3	74.0	19.7	Horizontal			
9648.0	7.9	48	55.9	74.0	18.1	Vertical			
9648.0	5.5	48.8	54.3	74.0	19.7	Horizontal			
12060.0	3.9	51.5	55.4	74.0	18.6	Vertical			
12060.0	3.2	52.4	55.6	74.0	18.4	Horizontal			



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# Result of Tx mode (2412.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4824.0	1.0	41.5	42.5	54.0	11.5	Vertical			
4824.0	-10.0	42.4	32.4	54.0	21.6	Horizontal			
7236.0	-3.1	45.1	42.0	54.0	12.0	Vertical			
7236.0	-3.4	46.2	42.8	54.0	11.2	Horizontal			
9648.0	-6.8	48	41.2	54.0	12.8	Vertical			
9648.0	-7.3	48.8	41.5	54.0	12.5	Horizontal			
12060.0	-9.5	51.5	42.0	54.0	12.0	Vertical			
12060.0	-9.9	52.4	42.5	54.0	11.5	Horizontal			



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# Result of Tx mode (2437.0 MHz) (802.11g) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
	Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

## Results of Tx mode (2437.0 MHz) (802.11g) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions								
	Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

## Result of Tx mode (2437.0 MHz) (802.11g) (Above 1GHz): Pass

		Field Streng	th of Spuriou	s Emissions					
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	14.0	41.6	55.6	74.0	18.4	Vertical			
4874.0	13.3	42.5	55.8	74.0	18.2	Horizontal			
7311.0	9.8	45.2	55.0	74.0	19.0	Vertical			
7311.0	9.4	46.3	55.7	74.0	18.3	Horizontal			
9748.0	7.1	48.1	55.2	74.0	18.8	Vertical			
9748.0	6.5	48.9	55.4	74.0	18.6	Horizontal			
12185.0	4.1	51.6	55.7	74.0	18.3	Vertical			
12185.0	3.7	52.5	56.2	74.0	17.8	Horizontal			



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# Result of Tx mode (2437.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	-0.4	41.6	41.2	54.0	12.8	Vertical			
4874.0	-0.9	42.5	41.6	54.0	12.4	Horizontal			
7311.0	-2.9	45.2	42.3	54.0	11.7	Vertical			
7311.0	-5.2	46.3	41.1	54.0	12.9	Horizontal			
9748.0	-6.4	48.1	41.7	54.0	12.3	Vertical			
9748.0	-6.9	48.9	42.0	54.0	12.0	Horizontal			
12185.0	-10.2	51.6	41.4	54.0	12.6	Vertical			
12185.0	-9.6	52.5	42.9	54.0	11.1	Horizontal			



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# Result of Tx mode (2462.0 MHz) (802.11g) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
	Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBµV/m	dBµV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

## Results of Tx mode (2462.0 MHz) (802.11g) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
	Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

## Result of Tx mode (2462.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V\!/m$	dBμV/m	dBμV/m				
4924.0	15.3	41.4	56.7	74.0	17.3	Vertical			
4924.0	12.8	42.7	55.5	74.0	18.5	Horizontal			
7386.0	9.2	45.6	54.8	74.0	19.2	Vertical			
7386.0	8.0	46.5	54.5	74.0	19.5	Horizontal			
9848.0	7.4	48.6	56.0	74.0	18.0	Vertical			
9848.0	5.4	49.7	55.1	74.0	18.9	Horizontal			
12310.0	4.2	51.7	55.9	74.0	18.1	Vertical			
12310.0	2.9	52.7	55.6	74.0	18.4	Horizontal			



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# Result of Tx mode (2462.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4924.0	0.6	41.4	42.0	54.0	12.0	Vertical			
4924.0	-0.3	42.7	42.4	54.0	11.6	Horizontal			
7386.0	-4.4	45.6	41.2	54.0	12.8	Vertical			
7386.0	-5.5	46.5	41.0	54.0	13.0	Horizontal			
9848.0	-6.1	48.6	42.5	54.0	11.5	Vertical			
9848.0	-8.1	49.7	41.6	54.0	12.4	Horizontal			
12310.0	-9.5	51.7	42.2	54.0	11.8	Vertical			
12310.0	-11.4	52.7	41.3	54.0	12.7	Horizontal			



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# Result of Tx mode (2412.0 MHz) (802.11n20) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Results of Tx mode (2412.0 MHz) (802.11n20) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2412.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4824.0	14.8	41.5	56.3	74.0	17.7	Vertical			
4824.0	13.4	42.4	55.8	74.0	18.2	Horizontal			
7236.0	10.0	45.1	55.1	74.0	18.9	Vertical			
7236.0	8.8	46.2	55.0	74.0	19.0	Horizontal			
9648.0	7.7	48	55.7	74.0	18.3	Vertical			
9648.0	5.4	48.8	54.2	74.0	19.8	Horizontal			
12060.0	5.3	51.5	56.8	74.0	17.2	Vertical			
12060.0	3.5	52.4	55.9	74.0	18.1	Horizontal			



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## Result of Tx mode (2412.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4824.0	-0.2	41.5	41.3	54.0	12.7	Vertical			
4824.0	-0.1	42.4	42.3	54.0	11.7	Horizontal			
7236.0	-2.8	45.1	42.3	54.0	11.7	Vertical			
7236.0	-4.3	46.2	41.9	54.0	12.1	Horizontal			
9648.0	-6.4	48	41.6	54.0	12.4	Vertical			
9648.0	-7.8	48.8	41.0	54.0	13.0	Horizontal			
12060.0	-9.4	51.5	42.1	54.0	11.9	Vertical			
12060.0	-10.0	52.4	42.4	54.0	11.6	Horizontal			



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## Result of Tx mode (2437.0 MHz) (802.11n20) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

#### Results of Tx mode (2437.0 MHz) (802.11n20) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBµV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Result of Tx mode (2437.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V\!/m$	dBμV/m	$dB\mu V/m$				
4874.0	14.0	41.6	55.6	74.0	18.4	Vertical			
4874.0	14.0	42.5	56.5	74.0	17.5	Horizontal			
7311.0	10.6	45.2	55.8	74.0	18.2	Vertical			
7311.0	8.9	46.3	55.2	74.0	18.8	Horizontal			
9748.0	8.4	48.1	56.5	74.0	17.5	Vertical			
9748.0	7.3	48.9	56.2	74.0	17.8	Horizontal			
12185.0	3.7	51.6	55.3	74.0	18.7	Vertical			
12185.0	4.2	52.5	56.7	74.0	17.3	Horizontal			



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## Result of Tx mode (2437.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	-1.2	41.6	40.4	54.0	13.6	Vertical			
4874.0	-0.5	42.5	42.0	54.0	12.0	Horizontal			
7311.0	-3.7	45.2	41.5	54.0	12.5	Vertical			
7311.0	-4.2	46.3	42.1	54.0	11.9	Horizontal			
9748.0	-6.0	48.1	42.1	54.0	11.9	Vertical			
9748.0	-6.5	48.9	42.4	54.0	11.6	Horizontal			
12185.0	-10.6	51.6	41.0	54.0	13.0	Vertical			
12185.0	-11.3	52.5	41.2	54.0	12.8	Horizontal			



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# Result of Tx mode (2462.0 MHz) (802.11n20) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBµV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

#### Results of Tx mode (2462.0 MHz) (802.11n20) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Result of Tx mode (2462.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4924.0	14.7	41.4	56.1	74.0	17.9	Vertical			
4924.0	12.8	42.7	55.5	74.0	18.5	Horizontal			
7386.0	9.2	45.6	54.8	74.0	19.2	Vertical			
7386.0	8.6	46.5	55.1	74.0	18.9	Horizontal			
9848.0	6.7	48.6	55.3	74.0	18.7	Vertical			
9848.0	4.5	49.7	54.2	74.0	19.8	Horizontal			
12310.0	3.8	51.7	55.5	74.0	18.5	Vertical			
12310.0	3.2	52.7	55.9	74.0	18.1	Horizontal			



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## Result of Tx mode (2462.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4924.0	1.9	41.4	43.3	54.0	10.7	Vertical			
4924.0	-0.7	42.7	42.0	54.0	12.0	Horizontal			
7386.0	-4.2	45.6	41.4	54.0	12.6	Vertical			
7386.0	-4.9	46.5	41.6	54.0	12.4	Horizontal			
9848.0	-6.1	48.6	42.5	54.0	11.5	Vertical			
9848.0	-7.9	49.7	41.8	54.0	12.2	Horizontal			
12310.0	-10.5	51.7	41.2	54.0	12.8	Vertical			
12310.0	-11.3	52.7	41.4	54.0	12.6	Horizontal			



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## Result of Tx mode (2422.0 MHz) (802.11n40) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Results of Tx mode (2422.0 MHz) (802.11n40) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2422.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4844.0	14.3	41.5	55.8	74.0	18.2	Vertical			
4844.0	13.0	42.4	55.4	74.0	18.6	Horizontal			
7266.0	10.5	45.1	55.6	74.0	18.4	Vertical			
7266.0	8.8	46.2	55.0	74.0	19.0	Horizontal			
9688.0	7.6	48	55.6	74.0	18.4	Vertical			
9688.0	5.8	48.8	54.6	74.0	19.4	Horizontal			
12110.0	4.3	51.5	55.8	74.0	18.2	Vertical			
12110.0	2.6	52.4	55.0	74.0	19.0	Horizontal			



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# Result of Tx mode (2422.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4844.0	-1.7	41.5	39.8	54.0	14.2	Vertical			
4844.0	-2.9	42.4	39.5	54.0	14.5	Horizontal			
7266.0	-4.8	45.1	40.3	54.0	13.7	Vertical			
7266.0	-5.5	46.2	40.7	54.0	13.3	Horizontal			
9688.0	-6.5	48	41.5	54.0	12.5	Vertical			
9688.0	-7.9	48.8	40.9	54.0	13.1	Horizontal			
12110.0	-9.6	51.5	41.9	54.0	12.1	Vertical			
12110.0	-11.1	52.4	41.3	54.0	12.7	Horizontal			



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# Result of Tx mode (2437.0 MHz) (802.11n40) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

#### Results of Tx mode (2437.0 MHz) (802.11n40) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Result of Tx mode (2437.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@ 3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4874.0	13.8	41.6	55.4	74.0	18.6	Vertical			
4874.0	12.5	42.5	55.0	74.0	19.0	Horizontal			
7311.0	10.0	45.2	55.2	74.0	18.8	Vertical			
7311.0	9.4	46.3	55.7	74.0	18.3	Horizontal			
9748.0	7.5	48.1	55.6	74.0	18.4	Vertical			
9748.0	7.8	48.9	56.7	74.0	17.3	Horizontal			
12185.0	4.5	51.6	56.1	74.0	17.9	Vertical			
12185.0	3.3	52.5	55.8	74.0	18.2	Horizontal			



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# Result of Tx mode (2437.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @ 3m	Factor	Strength	@ 3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	-1.1	41.6	40.5	54.0	13.5	Vertical			
4874.0	-0.9	42.5	41.6	54.0	12.4	Horizontal			
7311.0	-4.8	45.2	40.4	54.0	13.6	Vertical			
7311.0	-6.1	46.3	40.2	54.0	13.8	Horizontal			
9748.0	-6.3	48.1	41.8	54.0	12.2	Vertical			
9748.0	-6.4	48.9	42.5	54.0	11.5	Horizontal			
12185.0	-10.4	51.6	41.2	54.0	12.8	Vertical			
12185.0	-10.9	52.5	41.6	54.0	12.4	Horizontal			



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# Result of Tx mode (2452.0 MHz) (802.11n40) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBµV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

#### Results of Tx mode (2452.0 MHz) (802.11n40) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

## Result of Tx mode (2452.0 MHz) (802.11n40) (Above 1GHz): Pass

Field Strength of Spurious Emissions							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
4904.0	14.1	41.4	55.5	74.0	18.5	Vertical	
4904.0	12.5	42.7	55.2	74.0	18.8	Horizontal	
7356.0	9.0	45.6	54.6	74.0	19.4	Vertical	
7356.0	9.5	46.5	56.0	74.0	18.0	Horizontal	
9808.0	7.6	48.6	56.2	74.0	17.8	Vertical	
9808.0	4.8	49.7	54.5	74.0	19.5	Horizontal	
12260.0	3.9	51.7	55.6	74.0	18.4	Vertical	
12260.0	2.6	52.7	55.3	74.0	18.7	Horizontal	



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#### Result of Tx mode (2452.0 MHz) (802.11n40) (Above 1GHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m		
4904.0	0.3	41.4	41.7	54.0	12.3	Vertical	
4904.0	-1.2	42.7	41.5	54.0	12.5	Horizontal	
7356.0	-4.8	45.6	40.8	54.0	13.2	Vertical	
7356.0	-5.4	46.5	41.1	54.0	12.9	Horizontal	
9808.0	-7.1	48.6	41.5	54.0	12.5	Vertical	
9808.0	-8.5	49.7	41.2	54.0	12.8	Horizontal	
12260.0	-10.7	51.7	41.0	54.0	13.0	Vertical	
12260.0	-11.9	52.7	40.8	54.0	13.2	Horizontal	

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 9kHz-30MHz 3.3dB

30MHz -1GHz 4.6dB 1GHz -26GHz 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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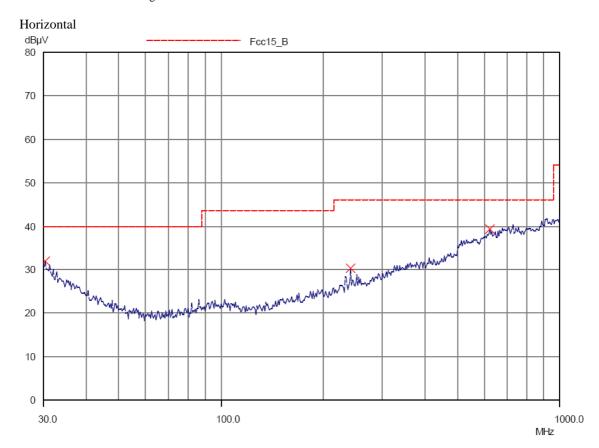
#### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Emints for Radiated Emissions [Fee 47 CFR 13.207 Class B].				
Quasi-Peak Limits				
$[\mu V/m]$				
2400/F (kHz)				
24000/F (kHz)				
30				
100				
150				
200				
500				

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

## Result of WiFi mode (Connect to PC, PC mains) (30MHz - 1GHz): Pass

Please refer to the following table for result details





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Result of WiFi mode (Connect to PC, PC mains) (30MHz - 1GHz): Pass

Radiated Emissions						
Quasi-Peak						
Emis s io n	E-Field	Level	Limit	Level	Limit	
Frequency	Polarity	@ 3m	@ 3m	@ 3m	@ 3m	
MHz		dBμV/m	dBμV/m	$dB\mu V\!/m$	dBµV/m	
30.2	Horizontal	30.9	40.0	35.1	100	
240.0	Horizontal	30.3	46.0	32.7	200	
620.6	Horizontal	36.8	46.0	69.2	200	



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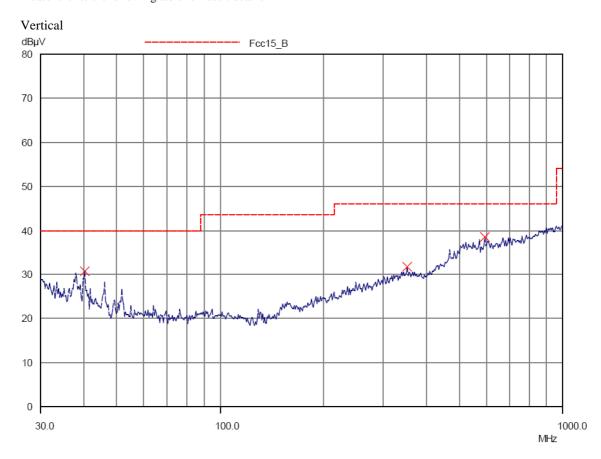
Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Emints for Radiated Emissions [Fee 47 CFR 13.207 Class B].				
Quasi-Peak Limits				
$[\mu V/m]$				
2400/F (kHz)				
24000/F (kHz)				
30				
100				
150				
200				
500				

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

## Result of WiFi mode (Connect to PC, PC mains) (30MHz - 1GHz): Pass

Please refer to the following table for result details





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No.: DM119349

#### Result of WiFi mode (Connect to PC, PC mains) (30MHz - 1GHz): Pass

Radiated Emissions					
		Quasi	-Peak		
Emission	E-Field	Level	Limit	Level	Limit
Frequency	Polarity	@ 3m	@ 3m	@ 3m	@ 3m
MHz		dBμV/m	dBμV/m	$dB\muV/m$	dBµV/m
40.3	Vertical	29.7	40.0	30.5	100
350.1	Vertical	31.7	46.0	38.5	200
591.7	Vertical	36.5	46.0	66.8	200

#### Remarks:

Calculated measurement uncertainty (30MHz - 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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#### 3.1.3 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.4:2009
Test Date: 2015-05-10
Mode of Operation: WiFi mode

#### **Test Method:**

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10 KHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

#### **Test Limit:**

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

# Results of WiFi Mode 802.11 b (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density (Antenna A)

Transmitter Frequency	Maximum Power spectral density	Maximum Power spectral density
(MHz)	level / 3kHz band	/ 3kHz band limit
	(dBm)	
2412.0	-11.05	8dBm
2437.0	-11.38	8dBm
2462.0	-11.85	8dBm



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# Results of WiFi Mode 802.11 g (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density (Antenna A)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-22.42	8dBm
2437.0	-22.27	8dBm
2462.0	-22.75	8dBm

# Results of WiFi Mode 802.11 n20 (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density (Antenna A)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-22.25	8dBm
2437.0	-21.97	8dBm
2462.0	-22.94	8dBm

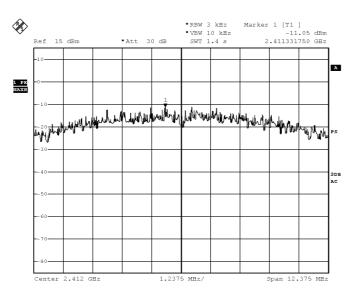
# Results of WiFi Mode 802.11 n40 (Tx:2422MHz to 2452MHz) : Pass (TX Unit) Maximum power spectral density (Antenna A)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-25.83	8dBm
2437.0	-26.38	8dBm
2452.0	-26.25	8dBm



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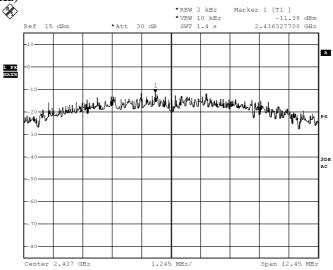
No.: DM119349



ВМР

Date: 10.MAY.2015 16:47:56

#### CH 6 (2437.0 MHz)



ВМР

Date: 10.MAY.2015 16:48:41

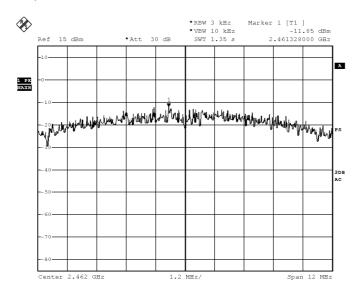
# STC (Dongguan) Company Limited



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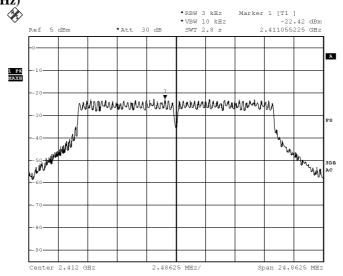
No.: DM119349

#### CH 11 (2462.0 MHz)



BMP Date: 10.MAY.2015 16:49:28

# WiFi mode 802.11 g, (Tx:2412MHz to 2462MHz) (Antenna A) Ch 1 (2412.0 MHz)



BMP
Date: 10.MAY.2015 16:51:46

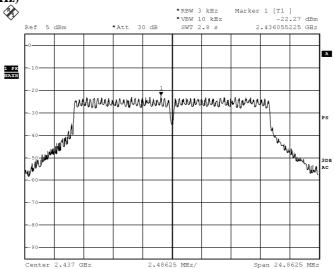
# STC (Dongguan) Company Limited



Date: 2015-05-13 Page 42 of 107

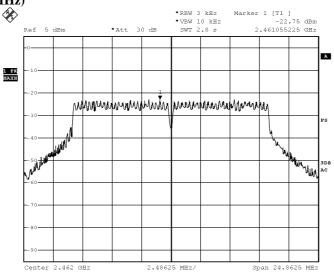
No.: DM119349

#### CH 6 (2437.0 MHz)



BMP
Date: 10.MAY.2015 16:51:08

# CH 11 (2462.0 MHz)



BMP
Date: 10.MAY.2015 16:50:39

# STC (Dongguan) Company Limited

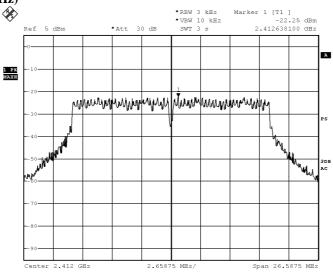


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No.: DM119349

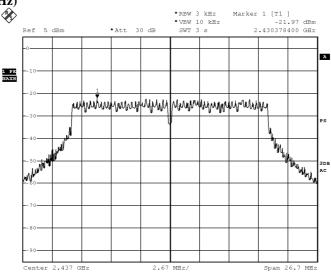
# WiFi mode 802.11 n20, (Tx: 2412MHz to 2462MHz) (Antenna A)

CH 1 (2412.0 MHz)



BMP
Date: 10.MAY.2015 16:52:23

# CH 6 (2437.0 MHz)



Date: 10.MAY.2015 16:53:17

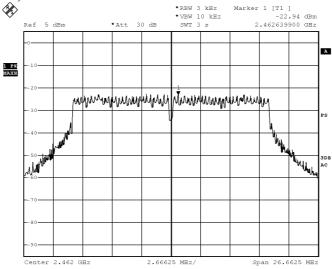
# STC (Dongguan) Company Limited



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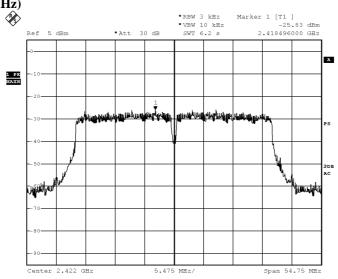
No.: DM119349

# Ch 11 (2462.0 MHz)



BMP Date: 10.MAY.2015 16:54:03

# WiFi mode 802.11 n40, (Tx: 2422MHz to 2452MHz) (Antenna A) CH 1 (2422.0 MHz)



BMP
Date: 10.MAY.2015 16:55:40

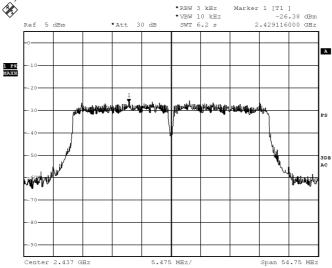
# STC (Dongguan) Company Limited



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No.: DM119349

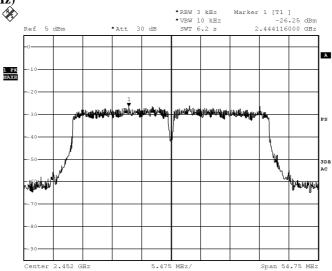
# CH 6 (2437.0 MHz)



ВМР

Date: 10.MAY.2015 16:57:14

#### Ch 9 (2452.0 MHz)



BMP

Date: 10.MAY.2015 16:58:31

# STC (Dongguan) Company Limited



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No.: DM119349

# Results of WiFi Mode 802.11 b (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density (Antenna B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-9.38	8dBm
2437.0	-9.56	8dBm
2462.0	-9.45	8dBm

# Results of WiFi Mode 802.11 g (Tx:2412MHz to 2462MHz): Pass (TX Unit) Maximum power spectral density (Antenna B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-20.67	8dBm
2437.0	-19.45	8dBm
2462.0	-19.30	8dBm

# Results of WiFi Mode 802.11 n20 (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density (Antenna B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-19.65	8dBm
2437.0	-19.14	8dBm
2462.0	-19.37	8dBm

# Results of WiFi Mode 802.11 n40 (Tx:2422MHz to 2452MHz) : Pass (TX Unit) Maximum power spectral density (Antenna B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-23.68	8dBm
2437.0	-23.16	8dBm
2452.0	-24.21	8dBm

# Results of WiFi Mode 802.11 n20 (Tx:2412MHz to 2462MHz) : Pass (TX Unit) STC (Dongguan) Company Limited



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#### Maximum power spectral density (MIMO Antenna A+B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-14.75	8dBm
2437.0	-14.32	8dBm
2462.0	-14.70	8dBm

Results of WiFi Mode 802.11 n40 (Tx:2422MHz to 2452MHz) : Pass (TX Unit) Maximum power spectral density (MIMO Antenna A+B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-18.61	8dBm
2437.0	-18.47	8dBm
2452.0	-18.85	8dBm

Note: The sum calculation=Antenna A+Antenna B +Beamforming(3dBi)
Result of Anrenna A and Antenna B have included antenna gain(2dBi)

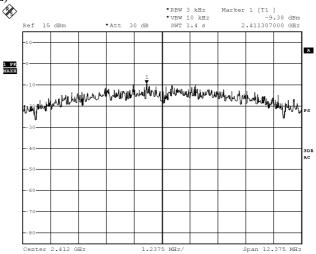


Date: 2015-05-13 Page 48 of 107

No.: DM119349

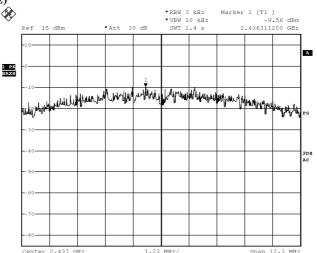
# WiFi mode 802.11 b, (Tx: 2412MHz to 2462MHz) (Antenna B)

CH 1 (2412.0 MHz)



BMP
Date: 10.MAY.2015 16:33:05

#### CH 6 (2437.0 MHz)



BMP Date: 10.MAY.2015 16:35:06

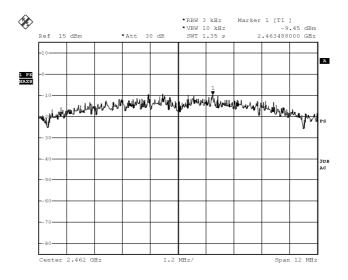
# STC (Dongguan) Company Limited



Date: 2015-05-13 Page 49 of 107

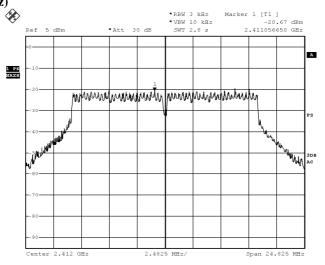
No.: DM119349

# CH 11 (2462.0 MHz)



BMP Date: 10.MAY.2015 16:36:08

# WiFi mode 802.11 g, (Tx:2412MHz to 2462MHz) (Antenna A) Ch 1 (2412.0 MHz)



BMP
Date: 10.MAY.2015 16:37:37

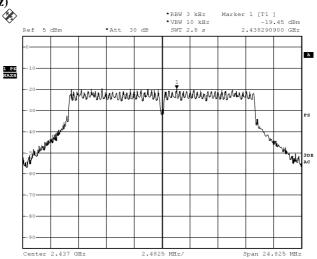
# STC (Dongguan) Company Limited



Date: 2015-05-13 Page 50 of 107

No.: DM119349

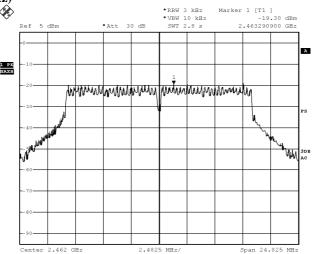
#### CH 6 (2437.0 MHz)



BMP

Date: 10.MAY.2015 16:38:26

#### CH 11 (2462.0 MHz)



ВМР

Date: 10.MAY.2015 16:39:06

# STC (Dongguan) Company Limited

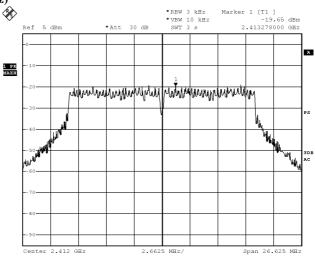


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No.: DM119349

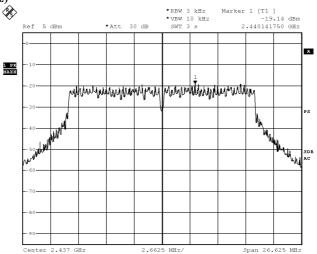
# WiFi mode 802.11 n20, (Tx: 2412MHz to 2462MHz) (Antenna A)

CH 1 (2412.0 MHz)



BMP Date: 10.MAY.2015 16:39:57

#### CH 6 (2437.0 MHz)



BMP Date: 10.MAY.2015 16:41:02

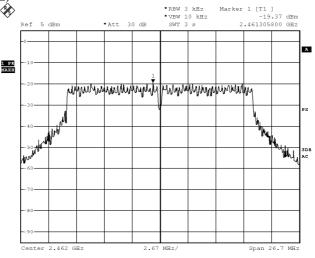
# STC (Dongguan) Company Limited



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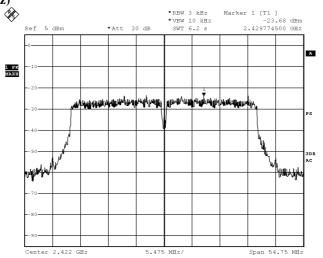
No.: DM119349

# Ch 11 (2462.0 MHz)



BMP
Date: 10.MAY.2015 16:41:44

# WiFi mode 802.11 n40, (Tx: 2422MHz to 2452MHz) (Antenna A) CH 1 (2422.0 MHz)



BMP Date: 10.MAY.2015 16:43:07

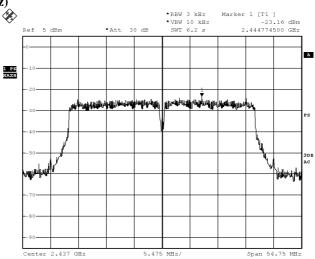
# STC (Dongguan) Company Limited



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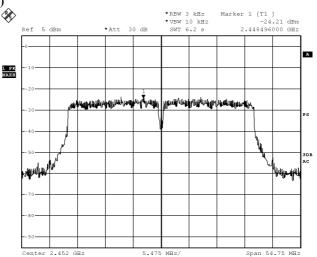
No.: DM119349

# CH 6 (2437.0 MHz)



BMP Date: 10.MAY.2015 16:44:05

# Ch 9 (2452.0 MHz)



Date: 10.MAY.2015 16:45:16

# STC (Dongguan) Company Limited



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#### 3.1.4 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)

Test Method: ANSI C63.4:2009
Test Date: 2015-05-10
Mode of Operation: WiFi mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.



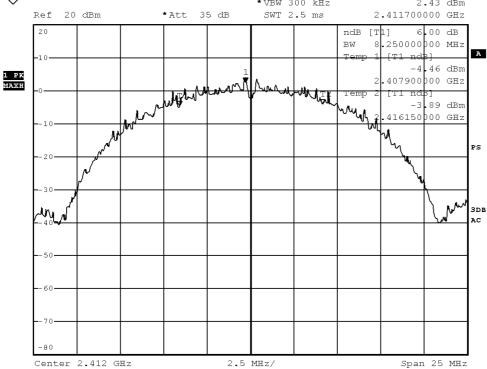
Date: 2015-05-13 Page 55 of 107

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#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	8.25	> 500





BMP

Date: 10.MAY.2015 15:47:20



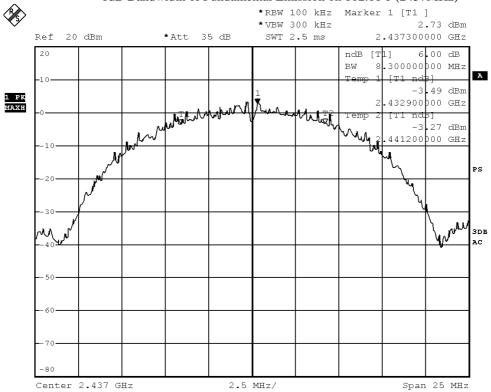
Date: 2015-05-13 Page 56 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	8.30	> 500

# 6dB Bandwidth of Fundamental Emission on 802.11 b (2437MHz)



вмр

Date: 10.MAY.2015 15:46:14



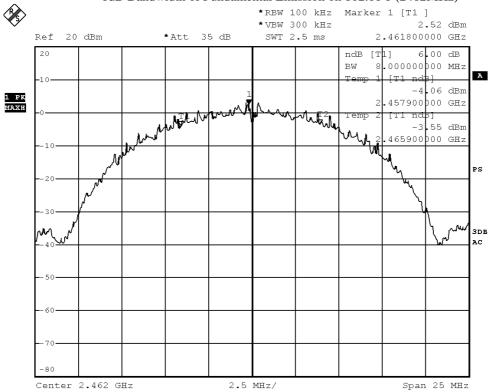
Date: 2015-05-13 Page 57 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	8.00	> 500

# 6dB Bandwidth of Fundamental Emission on 802.11 b (2462MHz)



вмр

Date: 10.MAY.2015 15:45:15



Date: 2015-05-13 Page 58 of 107

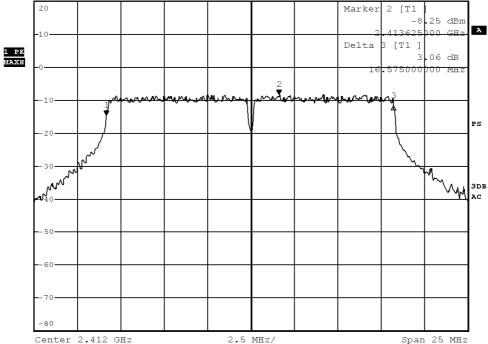
No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	16.575	> 500

6dB Bandwidth of Fundamental Emission on 802.11 g (2412MHz)





BMP

Date: 10.MAY.2015 15:52:33



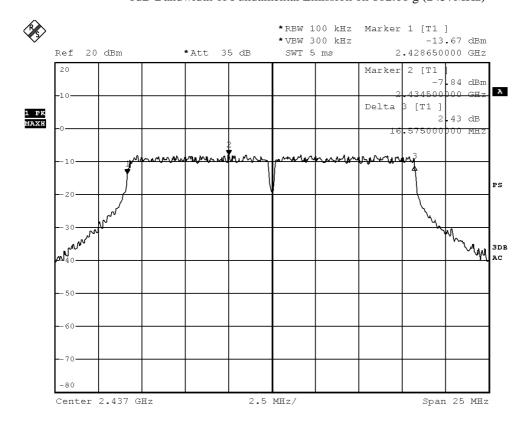
Date: 2015-05-13 Page 59 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	16.575	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 g (2437MHz)



ВМР

Date: 10.MAY.2015 15:53:29



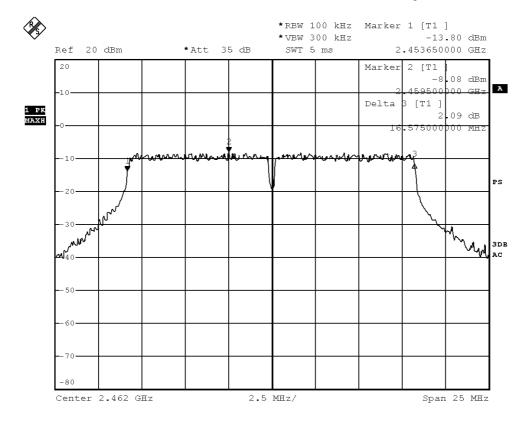
Date: 2015-05-13 Page 60 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	16.575	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 g (2462MHz)



ВМР

Date: 10.MAY.2015 15:54:22



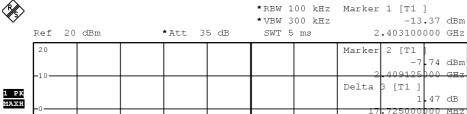
Date: 2015-05-13 Page 61 of 107

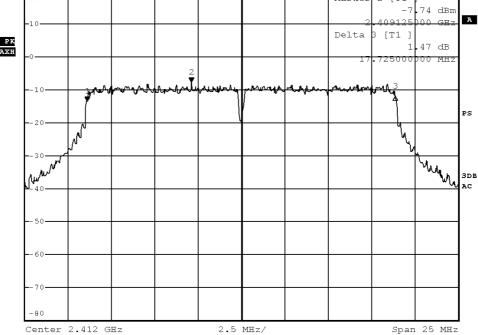
No.: DM119349

# Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	17.725	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n20 (2412MHz)





BMP

Date: 10.MAY.2015 16:00:37



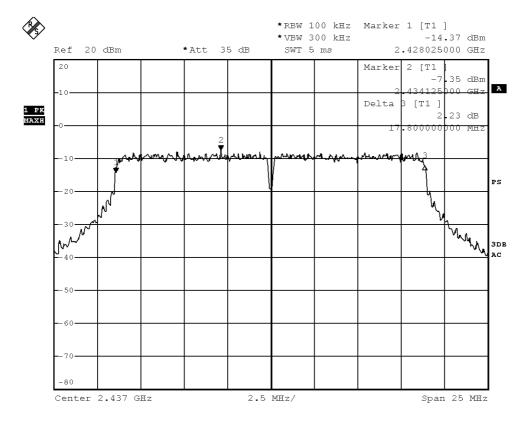
Date: 2015-05-13 Page 62 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	17.800	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n20 (2437MHz)



ВМР

Date: 10.MAY.2015 15:58:56



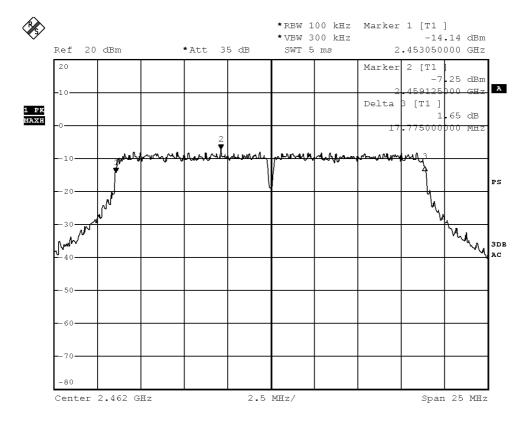
Date: 2015-05-13 Page 63 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	17.775	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n20 (2462MHz)



ВМР

Date: 10.MAY.2015 15:56:09



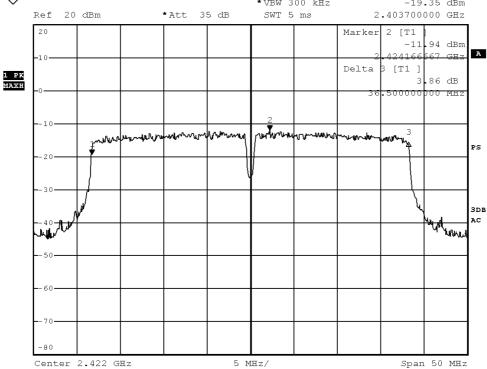
Date: 2015-05-13 Page 64 of 107

No.: DM119349

# Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2422.0	36.50	> 500





BMP

Date: 10.MAY.2015 16:01:53



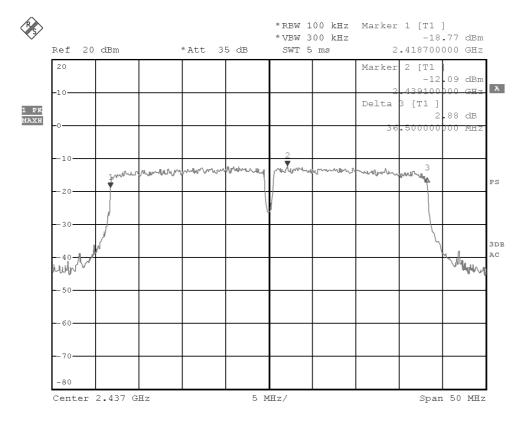
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No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	36.50	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n40 (2437MHz)



ВМР

Date: 10.MAY.2015 16:12:06



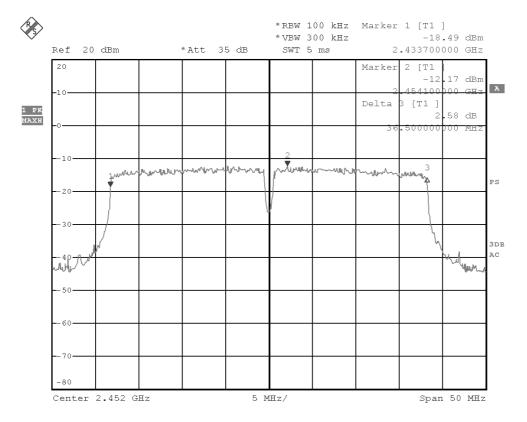
Date: 2015-05-13 Page 66 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna A):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2452.0	36.500	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n40 (2452MHz)



ВМР

Date: 10.MAY.2015 16:13:22



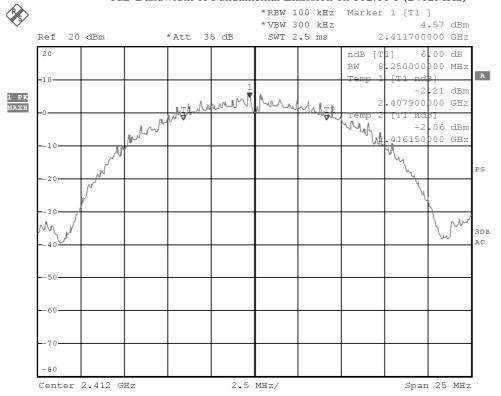
Date: 2015-05-13 Page 67 of 107

No.: DM119349

# Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	8.25	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 b (2412MHz)



 $\operatorname{BMP}$ 

Date: 10.MAY.2015 16:24:01



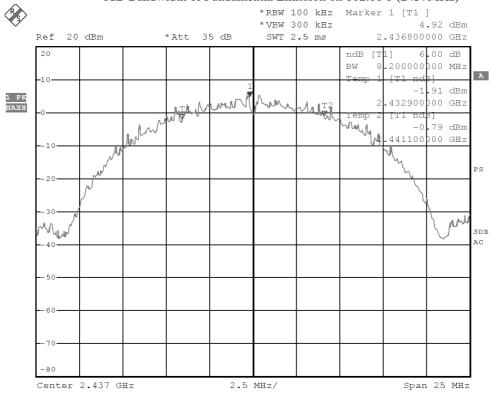
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No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	8.20	> 500

# 6dB Bandwidth of Fundamental Emission on 802.11 b (2437MHz)



BMP

Date: 10.MAY.2015 16:24:55



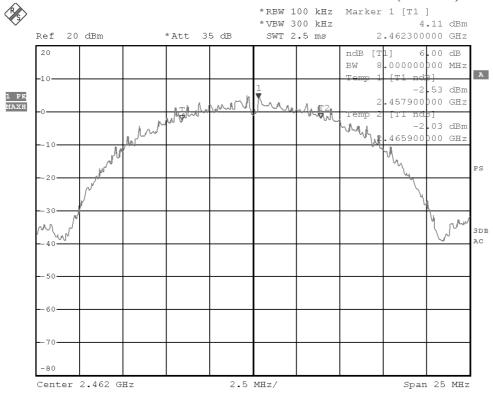
Date: 2015-05-13 Page 69 of 107

No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	8.00	> 500

# 6dB Bandwidth of Fundamental Emission on 802.11 b (2462MHz)



вмр

Date: 10.MAY.2015 16:26:18



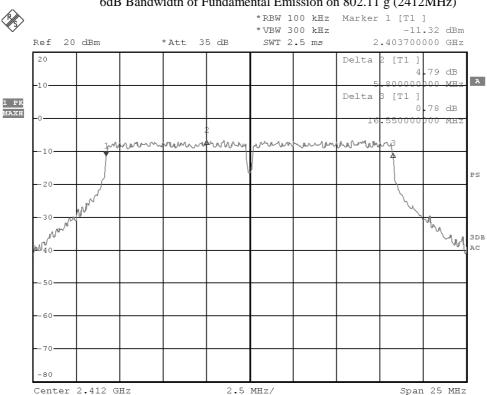
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No.: DM119349

#### Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	16.55	> 500

# 6dB Bandwidth of Fundamental Emission on 802.11 g (2412MHz)



BMP

Date: 10.MAY.2015 16:22:54



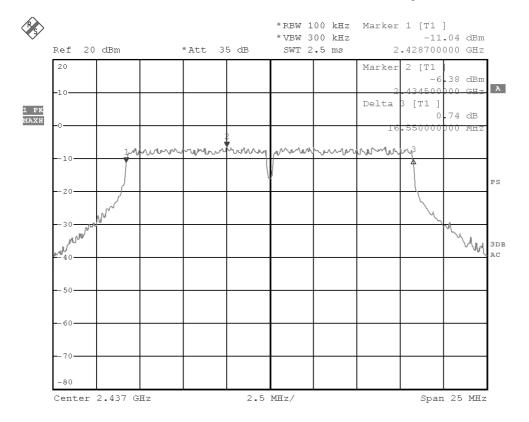
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No.: DM119349

# Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	16.55	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 g (2437MHz)



ВМР

Date: 10.MAY.2015 16:22:07



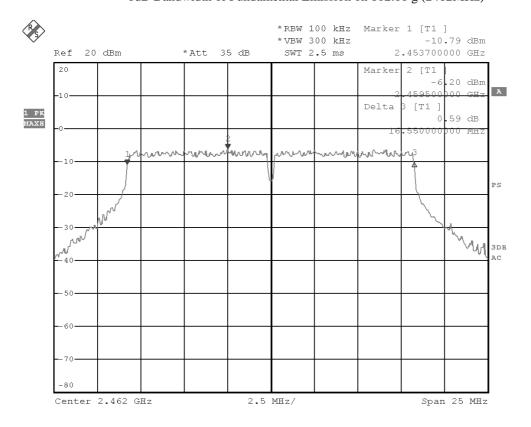
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# Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	16.55	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 g (2462MHz)



ВМР

Date: 10.MAY.2015 16:21:20



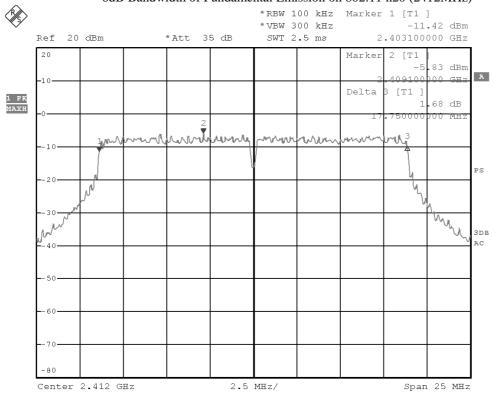
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#### Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	17.75	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n20 (2412MHz)



 $\operatorname{BMP}$ 

Date: 10.MAY.2015 16:17:40



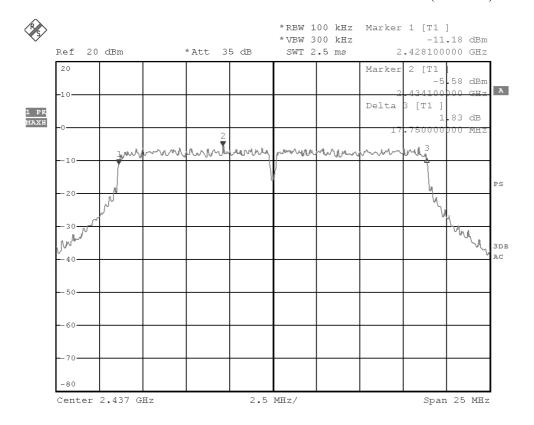
Date: 2015-05-13 Page 74 of 107

No.: DM119349

# Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	17.75	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n20 (2437MHz)



ВМР

Date: 10.MAY.2015 16:18:32



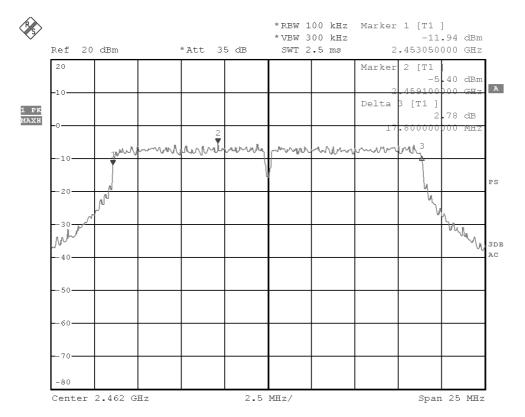
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## Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	17.80	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n20 (2462MHz)



ВМР

Date: 10.MAY.2015 16:20:06



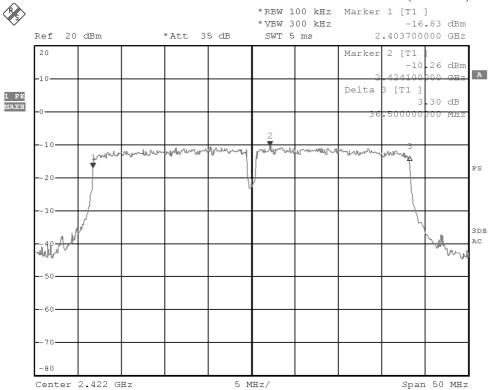
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# Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2422.0	36.50	> 500





BMP

Date: 10.MAY.2015 16:16:47



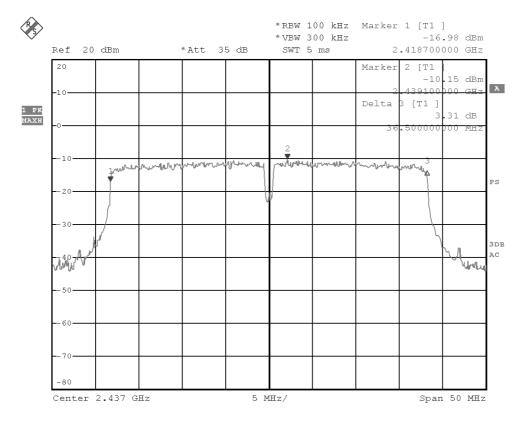
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#### Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	36.50	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n40 (2437MHz)



ВМР

Date: 10.MAY.2015 16:15:28



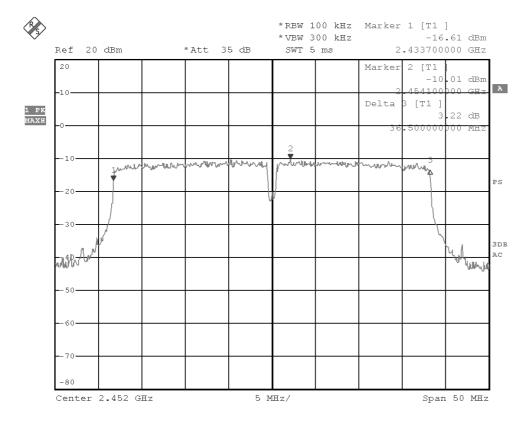
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#### Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2452.0	36.500	> 500

#### 6dB Bandwidth of Fundamental Emission on 802.11 n40 (2452MHz)



ВМР

Date: 10.MAY.2015 16:14:40



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No.: DM119349

#### 3.1.5 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247
Test Method: ANSI C63.4:2009
Test Date: 2015-05-10
Mode of Operation: WiFi mode

#### **Test Method:**

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW and VBW are set to 100kHz for this measurement.

#### **Test Setup:**

As Test Setup of clause 3.1.2 in this test report.



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#### Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2412)	39.24

#### **Band-edge Compliance of RF Emissions – Lowest (802.11b)**



BMP

Date: 10.MAY.2015 15:34:45

#### STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code: 523 770)

Tel: (86 769) 8111 9888 Fax: (86 769) 8111 6222 E-mail: dgstc@dgstc.org Homepage: www.dgstc.org



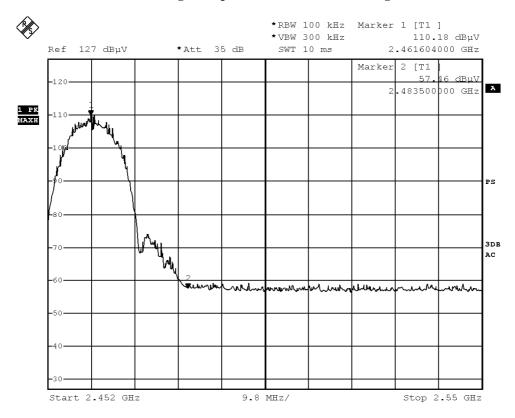
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2462)	53.02

#### Band-edge Compliance of RF Emissions - Highest (802.11b)



ВМР

Date: 10.MAY.2015 15:37:05



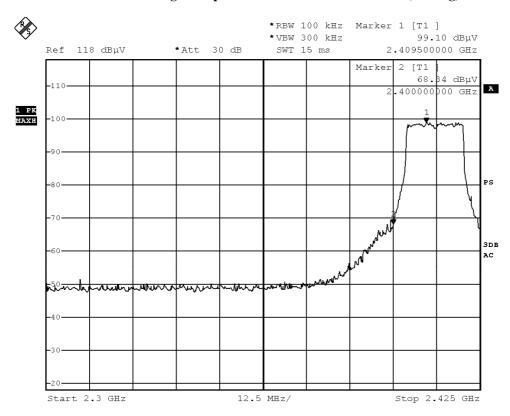
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No.: DM119349

Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

zuna tago compilante di ili conducted zimppione ilitarentene (antenna il)	
Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2412)	30.76

#### Band-edge Compliance of RF Emissions - Lowest (802.11g)



BMP

Date: 10.MAY.2015 15:32:22



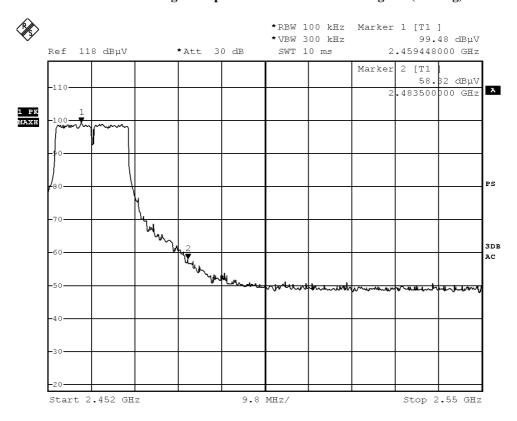
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No.: DM119349

## Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2462)	41.16

### Band-edge Compliance of RF Emissions – Highest (802.11g)



ВМР

Date: 10.MAY.2015 15:31:18



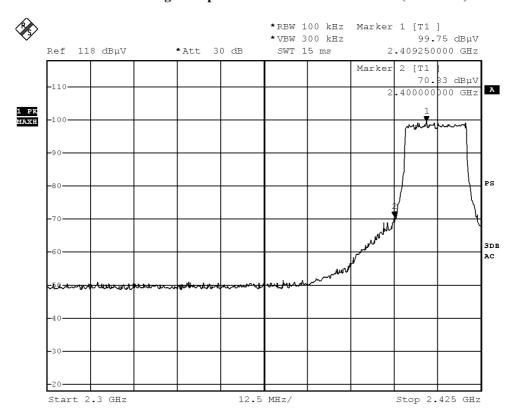
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#### Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2412)	28.92

#### Band-edge Compliance of RF Emissions - Lowest (802.11n20)



BMP

Date: 10.MAY.2015 15:28:19



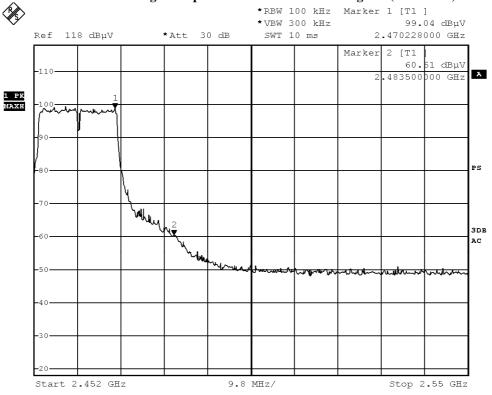
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2462)	38.53

#### Band-edge Compliance of RF Emissions – Highest (802.11n20)



BMP

Date: 10.MAY.2015 15:29:56



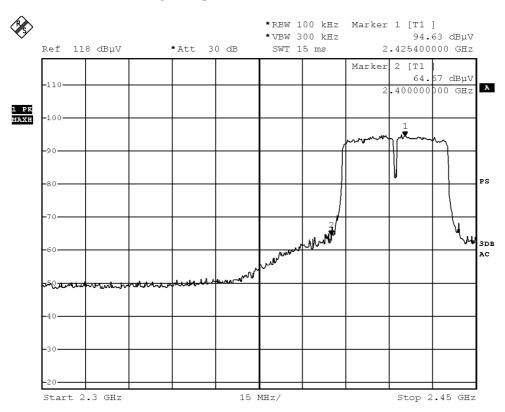
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#### Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2422)	30.06		

#### Band-edge Compliance of RF Emissions - Lowest (802.11n40)



BMP

Date: 10.MAY.2015 15:23:18



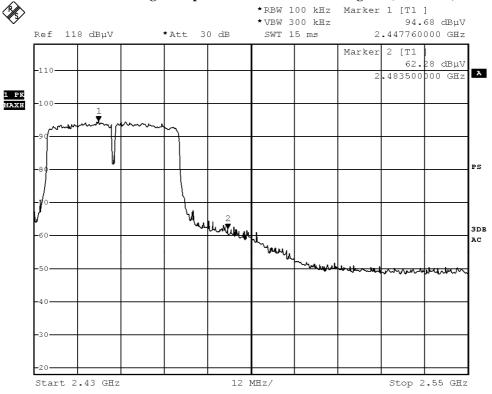
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2452)	32.40		

#### Band-edge Compliance of RF Emissions – Highest (802.11n40)



BMP

Date: 10.MAY.2015 15:20:47



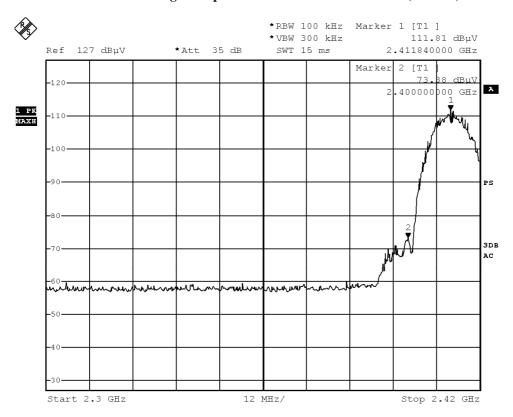
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### Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2412)	38.43		

#### Band-edge Compliance of RF Emissions – Lowest (802.11b)



BMP

Date: 10.MAY.2015 15:01:38



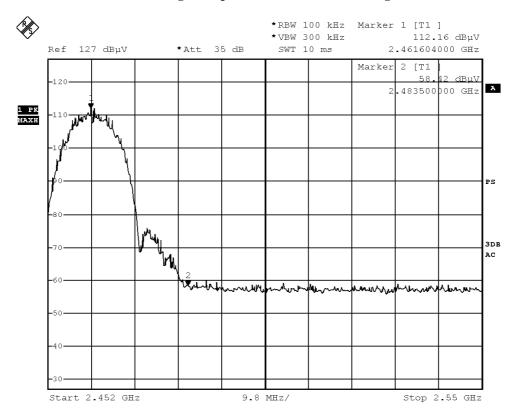
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2462)	53.74		

#### Band-edge Compliance of RF Emissions - Highest (802.11b)



ВМР

Date: 10.MAY.2015 15:02:45



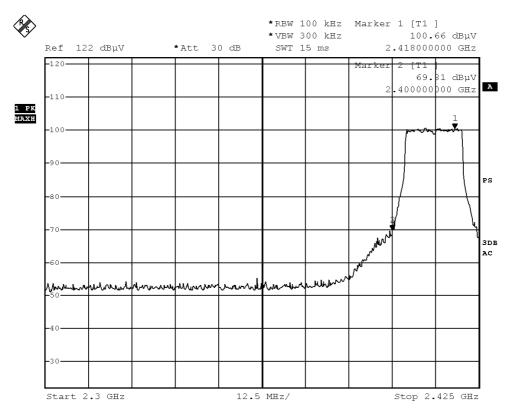
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Pana tage compliance of the conducted Emissions (trouser ement (antenna 2))					
Frequency Range	Radiated Emission Attenuated below the				
	Fundamental				
[MHz]	[dB]				
2400 – Lowest Fundamental (2412)	30.85				

#### Band-edge Compliance of RF Emissions – Lowest (802.11g)



BMP

Date: 10.MAY.2015 15:05:38



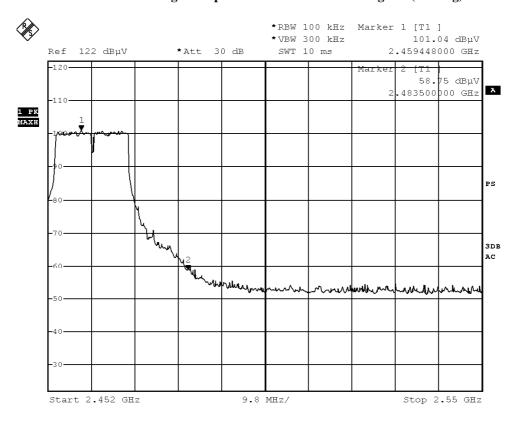
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2462)	42.29		

### Band-edge Compliance of RF Emissions – Highest (802.11g)



BMP

Date: 10.MAY.2015 15:04:29



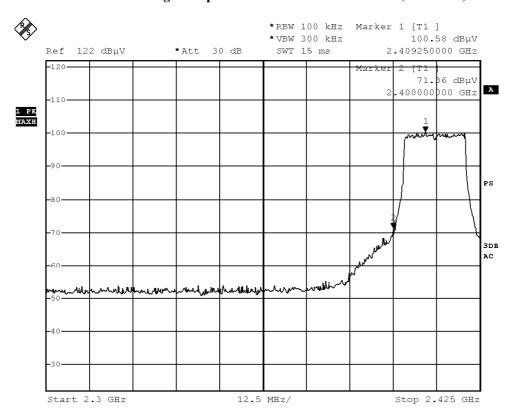
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### Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2412)	29.22		

#### Band-edge Compliance of RF Emissions - Lowest (802.11n20)



BMP

Date: 10.MAY.2015 15:07:37



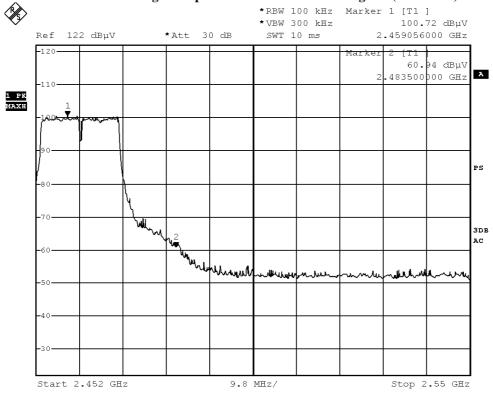
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2462)	39.78		

#### Band-edge Compliance of RF Emissions – Highest (802.11n20)



BMP

Date: 10.MAY.2015 15:10:00



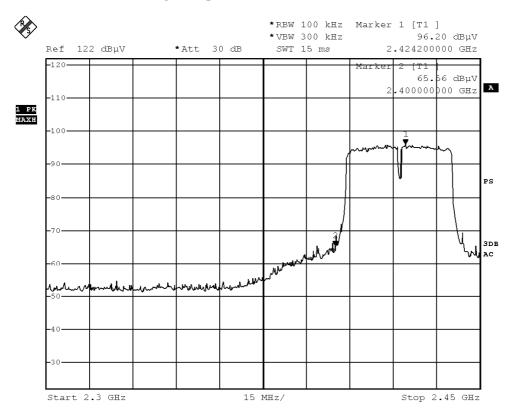
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#### Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2422)	30.64		

#### Band-edge Compliance of RF Emissions - Lowest (802.11n40)



BMP

Date: 10.MAY.2015 15:13:06



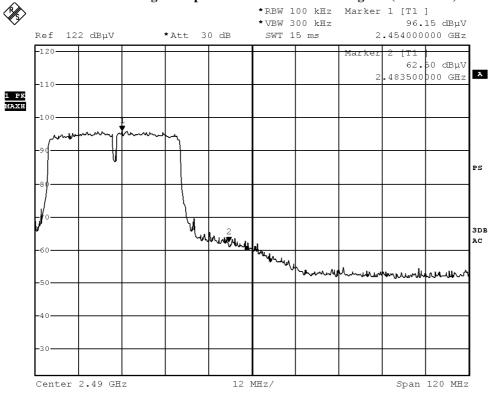
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## Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2452)	33.65		

#### Band-edge Compliance of RF Emissions – Highest (802.11n40)



BMP

Date: 10.MAY.2015 15:15:10



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No.: DM119349

#### **Band-edge Compliance of RF Radiated Emissions Measurement:**

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 5.205(c)).

#### Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11b

Field Strength of Band-edge Compliance						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @ 3m	Factor	Strength	@ 3m		Polarity
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m	
2390.0 18.4 36.8 55.2 74.0 18.8 Vertical						

Field Strength of Band-edge Compliance						
Average Value						
Frequency	Frequency Measured Correction Field Limit Margin E-Field					
Level @ 3m Factor Strength @ 3m Polarity					Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m	
2390.0	2.9	36.8	39.7	54.0	14.3	Vertical

#### Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11b

	Field Strength of Band-edge Compliance							
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @ 3m	Factor	Strength	@ 3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V\!/m$	dBμV/m	dBμV/m			
2483.5	17.6	36.4	54.0	74.0	20.0	Horizontal		

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V\!/m$	$dB\mu V/m$	dBμV/m		
2483.5	0.8	36.4	37.2	54.0	16.8	Horizontal	



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### Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11g

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
2390.0	22.2	36.8	59.0	74.0	15.0	Vertical	

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
2390.0	14.8	36.8	51.6	54.0	2.4	Vertical	

### Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11g

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
2483.5	22.3	36.4	58.7	74.0	15.3	Horizontal	

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
2483.5	12.9	36.4	49.3	54.0	4.7	Horizontal	



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### Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11n20

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
2390.0	23.0	36.8	59.8	74.0	14.2	Vertical	

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
2390.0	12.7	36.8	49.5	54.0	4.5	Vertical	

### Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11n20

	Field Strength of Band-edge Compliance							
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @ 3m	Factor	Strength	@ 3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V\!/m$	dBμV/m	dBµV/m			
2483.5	24.9	36.4	61.3	74.0	12.7	Horizontal		

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
2483.5	15.2	36.4	51.6	54.0	2.4	Horizontal	



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#### Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11n40

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
2390.0	25.4	36.8	62.2	74.0	11.8	Vertical	

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @ 3m	Factor	Strength	@ 3m		Polarity	
MHz	dΒμV	dB/m	dBµV/m	dBμV/m	dBμV/m		
2390.0	15.6	36.8	52.4	54.0	1.6	Vertical	

### Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11n20

Field Strength of Band-edge Compliance							
	Peak Value						
Frequency	Measured	Correction Field Limit Margin E-Field					
	Level @ 3m	Factor	Factor Strength			Polarity	
MHz	dΒμV	dB/m	$dB\mu V\!/m$	dBμV/m	dBµV/m		
2483.5	26.2	36.4	62.6	74.0	11.4	Horizontal	

Field Strength of Band-edge Compliance						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
Level @ 3m Factor Strength @ 3m Pola					Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m	
2483.5	15.9	36.4	52.3	54.0	1.7	Horizontal



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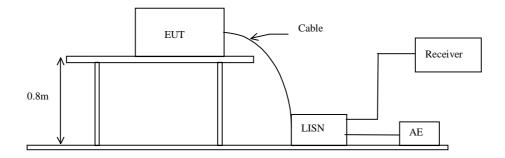
#### 3.1.6 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: ANSI C63.4:2009
Test Date: 2015-05-12
Mode of Operation: WiFi mode

#### **Test Method:**

The test was performed in accordance with ANSI C63.4:2009, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### **Test Setup:**





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## Limit for Conducted Emissions (FCC 47 CFR 15.207):

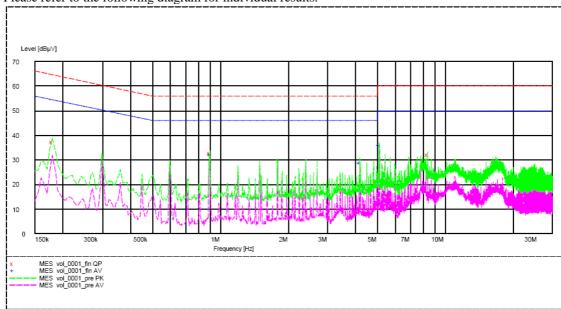
Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

<sup>\*</sup> Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

#### Results of WiFi mode (L): PASS

Please refer to the following diagram for individual results.



		Quasi-peak		Ave	rage
Conductor	Frequency	Level	Limit	Level	Limit
Live or Neutral	MHz	dΒμV	dΒμV	dΒμV	dΒμV
Live	0.900	_*_	_*_	32.0	46.0
Live	4.195	_*_	_*_	28.8	46.0
Live	5.095	_*_	_*_	35.9	50.0
Live	0.180	37.3	65.0	_*_	_*_
Live	0.900	33.0	56.0	_*_	_*_
Live	8.395	32.2	60.0	_*_	_*_



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## **Limit for Conducted Emissions (FCC 47 CFR 15.207):**

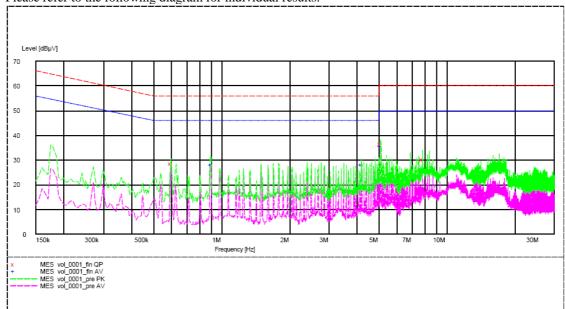
Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

<sup>\*</sup> Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

#### Results of WiFi mode (N): PASS

Please refer to the following diagram for individual results.



		Quasi-peak		Ave	rage
Conductor	Frequency	Level	Limit	Level	Limit
Live or Neutral	MHz	dΒμV	dΒμV	dΒμV	dΒμV
Neutral	0.900	_*_	_*_	28.3	46.0
Neutral	4.195	_*_	_*_	28.4	46.0
Neutral	5.095	_*_	_*_	35.6	50.0
Neutral	0.600	28.5	56.0	_*_	_*_
Neutral	5.095	36.8	60.0	_*_	_*_
Neutral	7.790	30.5	60.0	_*_	_*_

#### Remarks:

Calculated measurement uncertainty (0.15MHz - 30MHz): 3.2dB

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<sup>-\*-</sup> Emission(s) that is far below the corresponding limit line.



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### Appendix A

### List of Measurement Equipment

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EMD004	LISN	ROHDE & SCHWARZ	ESH3-Z5	100102	2015.3.24	2016.3.24
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100314	2015.3.24	2016.3.24
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2014.06.10	2015.06.10
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB 26	100388	2014.06.10	2015.06.10
EMD041	TWO-LINE V- NETWORK	ROHDE & SCHWARZ	ENV216	100261	2015.3.24	2016.3.24
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2014.11.29	2016.11.29
EMD062	Double-Ridged Waveguide (1GHz – 18GHz)	ETS.LINDGREN	3117	00075933	2014.11.15	2015.11.15
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A	N/A
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A	N/A
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2015.3.24	2016.3.24
	100V Insertion Unit	ROHDE & SCHWARZ	URV5-Z4	100464	2015.3.24	2016.3.24
EMD113	Pre-Amplifier	ROHDE & SCHWARZ	N/A	1129588	2015.3.24	2016.3.24
EMD124	Loop Antenna	ETS-Lindgren	6502	00104905	2014.04.28	2016.04.28
EMD131	Standard Gain Horn Antenna (18GHz – 26.5GHz)	Chengdu AINFO Inc.	JXTXLB-42- 15-C-KF	J2021100721001	2015.04.09	2017.04.09
RE01	RF cable	N/A	N/A	N/A	2014-9-28	2015-9-27
RE02	RF cable	N/A	N/A	N/A	2014-9-28	2015-9-27

#### Remarks:-

N/A Not Applicable or Not Available



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#### Appendix B

### **Ancillary Equipment**

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	DELL COMPUTER	DMC	N/A	N/A
2	DELL MONITOR	E177FPB	ARSCM356N	RESOLUTION 1024*768 (DURING TESTING) 1.0M UNSHIEDED POWER VORD CONNECTED TO THE COMPUTER 1.5M SHIELDED CABLE CONNECTED TO THE COMPUTER
3	DELL KEYBOARD	SK-8110	N/A	1.8M SHIELDED COILED CABLE CONNECTED TO THE COMPUTER
4	DELL MOUSE	N/A	N/A	2.4M UNSHIELDED CABLE CONNECTED TO THE COMPUTER
5	LASER PRINTER	HP LASERJET 1020 PLUS	N/A	1.8M UNSHIELDED POWER CORD 2.8M SHIELDED CABLE (BUNDLED TO 1M) CONNECTED TO THE COMPUTER



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### Appendix C

# Photographs of EUT

Front View of the product



**Inside View of the product** 



**Inner Circuit Bottom View** 



Rear View of the product



**Inner Circuit Top View** 



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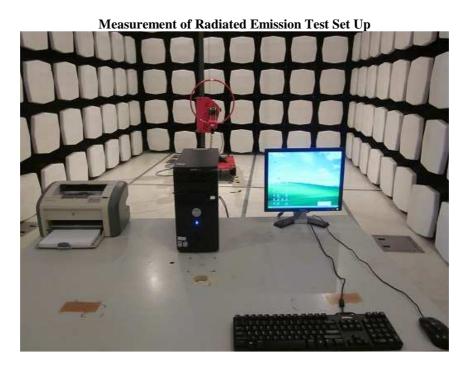
Tel : (86 769) 8111 9888 Fax : (86 769) 8111 6222 E-mail : dgstc@dgstc.org Homepage : www.dgstc.org

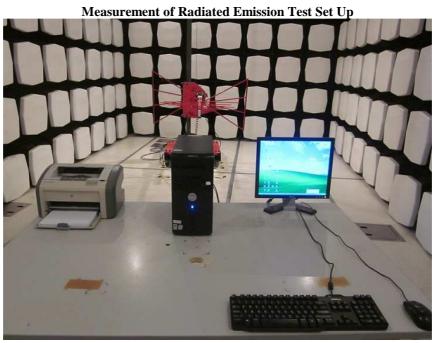


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### Photographs of EUT





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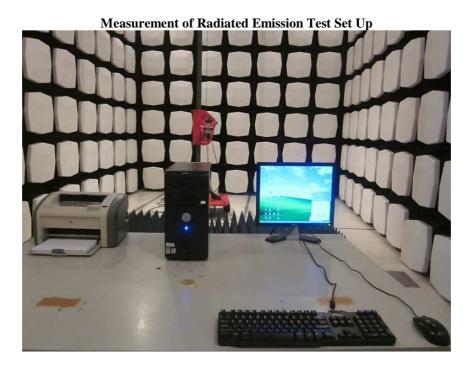
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### Photographs of EUT



Measurement of Conducted Emission Test Set Up

STC

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\*\*\*\*\* End of Test Report \*\*\*\*\*

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