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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: 300N High-Power PoE Access Point

Brand Name: Intellinet Model Number: 525800

FCC ID: 2ADQY525800

Date Sample(s) Received: 2015-06-09

Date Tested: 2015-06-12 to 2015-07-16

Investigation Requested: Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 and ANSI C63.10:2013 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): ---



Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
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: 300N High-Power PoE Access Point

Manufacturer: Intracom Asia Co., Ltd.

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

City 221, Taiwan

Brand Name: Intellinet Model Number: 525800

Rating: Input: 100-240Va.c. 50/60Hz 0.5A;

Output: 12Vd.c. 1.0A.

The AC/DC adaptor was provided by the applicant with following details:

Brand name: AMIGO; Model no.: AMS9-1201000FU2

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a High-Power Ceiling Mount Wireless 300N PoE Access 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

2015-06-09

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2015-06-12 to 2015-07-15

1.6 Country of Origin

China

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<u>2.0</u> 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 C63.10:2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary									
Test Condition	Test Requirement	Test Method	Class /	T	est Resu	ılt			
			Severity	Pass	Fail	N/A			
Output Power of Fundamental Emissions	` / ` /		N/A						
Radiated Emissions	ated Emissions FCC 47CFR 15.209		N/A						
Conducted Emissions	Conducted Emissions FCC 47CFR 15.207		N/A						
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: 2015-07-15
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.

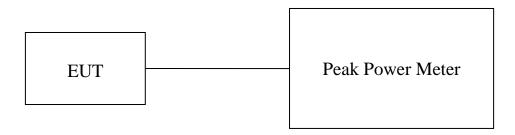
For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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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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 b, (2412MHz to 2462MHz): Pass (TX Unit) (EIRP Values) Maximum conducted output power (Antenna A)

Channel Frequency (MHz)		Result Antenna Gain (dBm) (dBi)		Output Power (dBm)	Output Power (Watt)
Low	2412	14.151	(uD1)	17.151	0.051892
Middle	2437	14.389	3	17.389	0.054815
High	2462	14.596		17.596	0.057491

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

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	15.368		18.368	0.068675
Middle	2437	15.584	3	18.584	0.072177
High	2462	15.711		18.711	0.074319

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

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	11.537		14.537	0.028425
Middle	2437	11.618	3	14.618	0.028960
High	2462	11.812		14.812	0.030283

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

Channel	Frequency	Result	Antenna Gain	Output Power	Output Power
	(MHz)	(dBm)	(dBi)	(dBm)	(Watt)
Low	2412	12.027		15.027	0.031820
Middle	2437	12.169	3	15.169	0.032878
High	2462	12.312		15.312	0.033978

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



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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) (EIRP Values) Maximum conducted output power (Antenna A)

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	9.576		12.576	0.018097
Middle	2437	9.719	3	12.719	0.018703
High	2462	9.902		12.902	0.019507

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

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2412	10.025		13.025	0.020068
Middle	2437	10.219	3	13.219	0.020985
High	2462	10.367		13.367	0.021712

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

Channel	Frequency (MHz)	Result (dBm)	Antenna Gain (dBi)	Output Power (dBm)	Output Power (Watt)
Low	2422	9.391		12.391	0.017342
Middle	2437	9.458	3	12.458	0.017612
High	2452	9.573		12.573	0.018084

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

Channel Frequency (MHz)		Result (dBm)			Output Power (Watt)
Low	2422	10.216		13.216	0.020970
Middle	2437	10.310	3	13.310	0.021429
High	2452	10.582		13.582	0.022814

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)



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Results of WiFi Tx Mode 802.11b, (2412MHz to 2462MHz): Pass (TX Unit) (EIRP Values) (Max conduct peak output power) Antenna A+B								
Channel	Freq.(MHz	Result (dBm)	Antenna Gain (dBi)	Beamforming Gain (dBi)	Output Power (dBm)	Output Power (Watt)		
Low	2412	17.812			23.812	0.240547		
Middle	2437	18.038	3	3	24.038	0.253396		
High	2462	18.199			24.199	0.262966		

	Results of WiFi Tx Mode 802.11g, (2412MHz to 2462MHz): Pass (TX Unit) (EIRP Values) (Max conduct peak output power) Antenna A+B							
Channel Freq. (MHz) Result (dBm) Gain (dBi) Gain (dBi) Output Power (dBm) (Watt)								
Low	2422	14.799			20.799	0.120199		
Middle	2437	14.913	3	3	20.913	0.123396		
High	2452	15.079			21.079	0.128204		

Results of WiFi Tx Mode 802.11 n20, (2412MHz to 2462MHz): Pass (TX Unit) (EIRP Values) Maximum conducted output power (Antenna A+B) (MIMO)								
Channel Frequency (MHz) Result (dBm) Antenna Gain Gain Gain Power Ouput A + B (dBi) Beamforming Gain Gain Power (dBm) Output Output Output (dBm)								
Low	2412	12.817			18.817	0.076155		
Middle	2437	12.986	3	3	18.986	0.079177		
High	2462	13.151			19.151	0.082243		

Results of	Results of WiFi Tx Mode 802.11 n40, (2422MHz to 2452MHz) : Pass (TX Unit) (EIRP Values)								
Maximun	Maximum conducted output power (Antenna A+B) (MIMO)								
Channel									
	(MHz) (dBm) Gain Gain Power Power Ouput A + B (dBi) (dB) (dBm) (Watt)								
Low	2422	12.833			18.833	0.076436			
Middle	2437	12.915	3	3	18.915	0.077893			
High	2452	13.117			19.117	0.081602			

Beamforming Gain = $10 \log(N_{ANT}) dB$,

Directional gain=6 dBi=Antnena Gain+Beamforming Gain

where N_{ANT} = 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

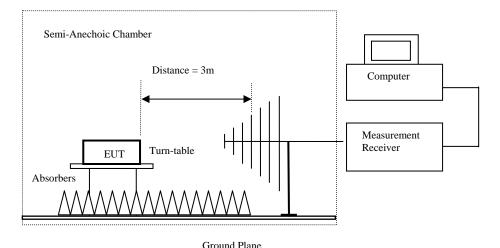
Test Requirement: FCC 47CFR 15.209
Test Method: ANSI C63.10:2013
Test Date: 2015-07-10 to 2015-07-15
Mode of Operation: Tx mode / WiFi mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m 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 1000MHz only.



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

Emits for Radiated Emissions [1 CC 47 CFR 1	etz i, etass b].
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	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) (802.11b) (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

Result of 1X mode (2412.0 MHz) (802.110) (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				
4824.0	13.0	41.5	54.5	74.0	19.5	Vertical			
4824.0	14.5	42.4	56.9	74.0	17.1	Horizontal			
7236.0	10.5	45.1	55.6	74.0	18.4	Vertical			
7236.0	9.5	46.2	55.7	74.0	18.3	Horizontal			
9648.0	7.4	48	55.4	74.0	18.6	Vertical			
9648.0	6.1	48.8	54.9	74.0	19.1	Horizontal			
12060.0	4.0	51.5	55.5	74.0	18.5	Vertical			
12060.0	3.1	52.4	55.5	74.0	18.5	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	5.3	41.5	46.8	54.0	7.2	Vertical			
4824.0	2.3	42.4	44.7	54.0	9.3	Horizontal			
7236.0	-2.7	45.1	42.4	54.0	11.6	Vertical			
7236.0	-4.0	46.2	42.2	54.0	11.8	Horizontal			
9648.0	-5.9	48	42.1	54.0	11.9	Vertical			
9648.0	-7.0	48.8	41.8	54.0	12.2	Horizontal			
12060.0	-10.1	51.5	41.4	54.0	12.6	Vertical			
12060.0	-10.3	52.4	42.1	54.0	11.9	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	dΒμV	dB/m	dBμV/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	$dB\mu V/m$	dBμV/m	dBμV/m					
4874.0	16.5	41.6	58.1	74.0	15.9	Vertical				
4874.0	15.4	42.5	57.9	74.0	16.1	Horizontal				
7311.0	10.7	45.2	55.9	74.0	18.1	Vertical				
7311.0	9.8	46.3	56.1	74.0	17.9	Horizontal				
9748.0	7.4	48.1	55.5	74.0	18.5	Vertical				
9748.0	7.5	48.9	56.4	74.0	17.6	Horizontal				
12185.0	4.3	51.6	55.9	74.0	18.1	Vertical				
12185.0	3.5	52.5	56.0	74.0	18.0	Horizontal				



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

	Field Strength of Spurious Emissions								
		A	verage Valu	e					
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	6.6	41.6	48.2	54.0	5.8	Vertical			
4874.0	5.0	42.5	47.5	54.0	6.5	Horizontal			
7311.0	-2.4	45.2	42.8	54.0	11.2	Vertical			
7311.0	-2.8	46.3	43.5	54.0	10.5	Horizontal			
9748.0	-5.5	48.1	42.6	54.0	11.4	Vertical			
9748.0	-6.7	48.9	42.2	54.0	11.8	Horizontal			
12185.0	-9.8	51.6	41.8	54.0	12.2	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) (802.11b) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	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) (802.11b) (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	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) (802.11b) (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	$dB\mu V/m$	dBμV/m	dBμV/m				
4924.0	17.2	41.4	58.6	74.0	15.4	Vertical			
4924.0	15.1	42.7	57.8	74.0	16.2	Horizontal			
7386.0	10.2	45.6	55.8	74.0	18.2	Vertical			
7386.0	8.9	46.5	55.4	74.0	18.6	Horizontal			
9848.0	7.1	48.6	55.7	74.0	18.3	Vertical			
9848.0	5.5	49.7	55.2	74.0	18.8	Horizontal			
12310.0	4.2	51.7	55.9	74.0	18.1	Vertical			
12310.0	3.5	52.7	56.2	74.0	17.8	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	6.5	41.4	47.9	54.0	6.1	Vertical				
4924.0	4.7	42.7	47.4	54.0	6.6	Horizontal				
7386.0	-3.3	45.6	42.3	54.0	11.7	Vertical				
7386.0	-3.9	46.5	42.6	54.0	11.4	Horizontal				
9848.0	-6.3	48.6	42.3	54.0	11.7	Vertical				
9848.0	-7.9	49.7	41.8	54.0	12.2	Horizontal				
12310.0	-9.3	51.7	42.4	54.0	11.6	Vertical				
12310.0	-9.7	52.7	43.0	54.0	11.0	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	$dB\mu V/m$	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	$dB\mu V/m$	$dB\mu V/m$			
	Emissions detected are more than 20 dB below the FCC Limits							

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

Result of Tx III	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	$dB\muV/m$	dBμV/m				
4824.0	16.9	41.5	58.4	74.0	15.6	Vertical			
4824.0	15.7	42.4	58.1	74.0	15.9	Horizontal			
7236.0	11.3	45.1	56.4	74.0	17.6	Vertical			
7236.0	9.9	46.2	56.1	74.0	17.9	Horizontal			
9648.0	7.9	48	55.9	74.0	18.1	Vertical			
9648.0	6.5	48.8	55.3	74.0	18.7	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	6.4	41.5	47.9	54.0	6.1	Vertical				
4824.0	5.8	42.4	48.2	54.0	5.8	Horizontal				
7236.0	-2.0	45.1	43.1	54.0	10.9	Vertical				
7236.0	-3.3	46.2	42.9	54.0	11.1	Horizontal				
9648.0	-5.8	48	42.2	54.0	11.8	Vertical				
9648.0	-7.0	48.8	41.8	54.0	12.2	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	$dB\mu V/m$	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 Strength of Spurious 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	17.0	41.6	58.6	74.0	15.4	Vertical			
4874.0	15.2	42.5	57.7	74.0	16.3	Horizontal			
7311.0	10.8	45.2	56.0	74.0	18.0	Vertical			
7311.0	9.5	46.3	55.8	74.0	18.2	Horizontal			
9748.0	7.7	48.1	55.8	74.0	18.2	Vertical			
9748.0	6.7	48.9	55.6	74.0	18.4	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	C	Polarity				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m					
4874.0	6.9	41.6	48.5	54.0	5.5	Vertical				
4874.0	5.0	42.5	47.5	54.0	6.5	Horizontal				
7311.0	-2.5	45.2	42.7	54.0	11.3	Vertical				
7311.0	-3.9	46.3	42.4	54.0	11.6	Horizontal				
9748.0	-6.2	48.1	41.9	54.0	12.1	Vertical				
9748.0	-6.8	48.9	42.1	54.0	11.9	Horizontal				
12185.0	-9.4	51.6	42.2	54.0	11.8	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	C	Polarity				
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m					
4924.0	16.9	41.4	58.3	74.0	15.7	Vertical				
4924.0	14.9	42.7	57.6	74.0	16.4	Horizontal				
7386.0	10.3	45.6	55.9	74.0	18.1	Vertical				
7386.0	9.5	46.5	56.0	74.0	18.0	Horizontal				
9848.0	7.4	48.6	56.0	74.0	18.0	Vertical				
9848.0	5.7	49.7	55.4	74.0	18.6	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	7.0	41.4	48.4	54.0	5.6	Vertical			
4924.0	4.7	42.7	47.4	54.0	6.6	Horizontal			
7386.0	-2.1	45.6	43.5	54.0	10.5	Vertical			
7386.0	-3.9	46.5	42.6	54.0	11.4	Horizontal			
9848.0	-6.1	48.6	42.5	54.0	11.5	Vertical			
9848.0	-7.8	49.7	41.9	54.0	12.1	Horizontal			
12310.0	-9.5	51.7	42.2	54.0	11.8	Vertical			
12310.0	-11.0	52.7	41.7	54.0	12.3	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	$dB\mu V/m$	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

Result of Tx III	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	$dB\mu V/m$	$dB\mu V/m$	dBμV/m				
4824.0	16.5	41.5	58.0	74.0	16.0	Vertical			
4824.0	14.8	42.4	57.2	74.0	16.8	Horizontal			
7236.0	10.9	45.1	56.0	74.0	18.0	Vertical			
7236.0	9.5	46.2	55.7	74.0	18.3	Horizontal			
9648.0	7.7	48	55.7	74.0	18.3	Vertical			
9648.0	6.0	48.8	54.8	74.0	19.2	Horizontal			
12060.0	4.7	51.5	56.2	74.0	17.8	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	6.2	41.5	47.7	54.0	6.3	Vertical			
4824.0	4.6	42.4	47.0	54.0	7.0	Horizontal			
7236.0	-0.3	45.1	44.8	54.0	9.2	Vertical			
7236.0	-3.0	46.2	43.2	54.0	10.8	Horizontal			
9648.0	-5.4	48	42.6	54.0	11.4	Vertical			
9648.0	-7.1	48.8	41.7	54.0	12.3	Horizontal			
12060.0	-8.8	51.5	42.7	54.0	11.3	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	$dB\mu V/m$	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	dBμV/m				
4874.0	16.3	41.6	57.9	74.0	16.1	Vertical			
4874.0	14.8	42.5	57.3	74.0	16.7	Horizontal			
7311.0	10.6	45.2	55.8	74.0	18.2	Vertical			
7311.0	9.3	46.3	55.6	74.0	18.4	Horizontal			
9748.0	8.0	48.1	56.1	74.0	17.9	Vertical			
9748.0	7.0	48.9	55.9	74.0	18.1	Horizontal			
12185.0	4.7	51.6	56.3	74.0	17.7	Vertical			
12185.0	3.9	52.5	56.4	74.0	17.6	Horizontal			



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

	Field Strength of Spurious Emissions								
		A	verage Valu	e					
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	5.9	41.6	47.5	54.0	6.5	Vertical			
4874.0	4.9	42.5	47.4	54.0	6.6	Horizontal			
7311.0	-2.7	45.2	42.5	54.0	11.5	Vertical			
7311.0	-3.9	46.3	42.4	54.0	11.6	Horizontal			
9748.0	-5.5	48.1	42.6	54.0	11.4	Vertical			
9748.0	-6.5	48.9	42.4	54.0	11.6	Horizontal			
12185.0	-8.9	51.6	42.7	54.0	11.3	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) (802.11n20) (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	$dB\mu V/m$	$dB\mu V/m$	dBμV/m				
4924.0	16.7	41.4	58.1	74.0	15.9	Vertical			
4924.0	14.9	42.7	57.6	74.0	16.4	Horizontal			
7386.0	10.5	45.6	56.1	74.0	17.9	Vertical			
7386.0	9.4	46.5	55.9	74.0	18.1	Horizontal			
9848.0	7.0	48.6	55.6	74.0	18.4	Vertical			
9848.0	5.5	49.7	55.2	74.0	18.8	Horizontal			
12310.0	4.1	51.7	55.8	74.0	18.2	Vertical			
12310.0	3.4	52.7	56.1	74.0	17.9	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	6.8	41.4	48.2	54.0	5.8	Vertical			
4924.0	5.1	42.7	47.8	54.0	6.2	Horizontal			
7386.0	-3.2	45.6	42.4	54.0	11.6	Vertical			
7386.0	-3.8	46.5	42.7	54.0	11.3	Horizontal			
9848.0	-6.2	48.6	42.4	54.0	11.6	Vertical			
9848.0	-7.7	49.7	42.0	54.0	12.0	Horizontal			
12310.0	-9.5	51.7	42.2	54.0	11.8	Vertical			
12310.0	-10.3	52.7	42.4	54.0	11.6	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	$dB\mu V/m$	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

TA III	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	$dB\mu V/m$	$dB\muV/m$	dBμV/m				
4844.0	16.0	41.5	57.5	74.0	16.5	Vertical			
4844.0	14.6	42.4	57.0	74.0	17.0	Horizontal			
7266.0	10.7	45.1	55.8	74.0	18.2	Vertical			
7266.0	9.4	46.2	55.6	74.0	18.4	Horizontal			
9688.0	7.6	48	55.6	74.0	18.4	Vertical			
9688.0	6.9	48.8	55.7	74.0	18.3	Horizontal			
12110.0	4.7	51.5	56.2	74.0	17.8	Vertical			
12110.0	3.6	52.4	56.0	74.0	18.0	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	5.9	41.5	47.4	54.0	6.6	Vertical			
4844.0	4.5	42.4	46.9	54.0	7.1	Horizontal			
7266.0	-3.1	45.1	42.0	54.0	12.0	Vertical			
7266.0	-4.4	46.2	41.8	54.0	12.2	Horizontal			
9688.0	-5.8	48	42.2	54.0	11.8	Vertical			
9688.0	-6.4	48.8	42.4	54.0	11.6	Horizontal			
12110.0	-8.5	51.5	43.0	54.0	11.0	Vertical			
12110.0	-10.1	52.4	42.3	54.0	11.7	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	$dB\mu V/m$	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	dBμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m				
4874.0	15.8	41.6	57.4	74.0	16.6	Vertical			
4874.0	14.5	42.5	57.0	74.0	17.0	Horizontal			
7311.0	10.7	45.2	55.9	74.0	18.1	Vertical			
7311.0	9.4	46.3	55.7	74.0	18.3	Horizontal			
9748.0	8.0	48.1	56.1	74.0	17.9	Vertical			
9748.0	7.1	48.9	56.0	74.0	18.0	Horizontal			
12185.0	4.7	51.6	56.3	74.0	17.7	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) (802.11n40) (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	5.9	41.6	47.5	54.0	6.5	Vertical			
4874.0	4.3	42.5	46.8	54.0	7.2	Horizontal			
7311.0	-1.8	45.2	43.4	54.0	10.6	Vertical			
7311.0	-3.4	46.3	42.9	54.0	11.1	Horizontal			
9748.0	-5.2	48.1	42.9	54.0	11.1	Vertical			
9748.0	-6.2	48.9	42.7	54.0	11.3	Horizontal			
12185.0	-8.1	51.6	43.5	54.0	10.5	Vertical			
12185.0	-9.2	52.5	43.3	54.0	10.7	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	Frequency Measured Correction Field Field Limit E-Field						
	Level Factor Strength Strength Polarity						
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 (2452.0 MHz) (802.11n40) (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 $dB\mu V$ 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 (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	dBμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m		
4904.0	16.2	41.4	57.6	74.0	16.4	Vertical	
4904.0	14.3	42.7	57.0	74.0	17.0	Horizontal	
7356.0	10.0	45.6	55.6	74.0	18.4	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	6.0	49.7	55.7	74.0	18.3	Horizontal	
12260.0	4.4	51.7	56.1	74.0	17.9	Vertical	
12260.0	3.6	52.7	56.3	74.0	17.7	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						E-Field	
	Level @3m	Factor				Polarity	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m		
4904.0	6.4	41.4	47.8	54.0	6.2	Vertical	
4904.0	4.2	42.7	46.9	54.0	7.1	Horizontal	
7356.0	-2.8	45.6	42.8	54.0	11.2	Vertical	
7356.0	-3.4	46.5	43.1	54.0	10.9	Horizontal	
9808.0	-5.8	48.6	42.8	54.0	11.2	Vertical	
9808.0	-6.7	49.7	43.0	54.0	11.0	Horizontal	
12260.0	-8.7	51.7	43.0	54.0	11.0	Vertical	
12260.0	-9.3	52.7	43.4	54.0	10.6	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]:

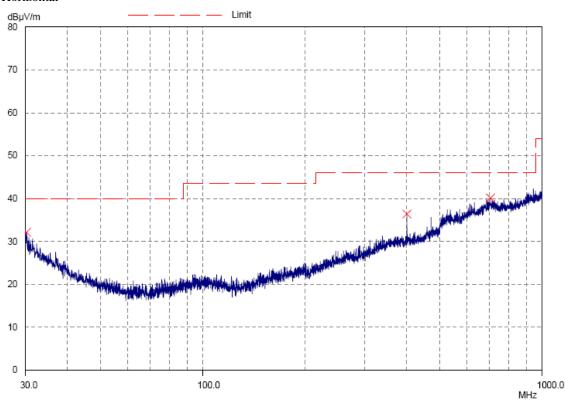
Emits for Radiated Emissions [1 CC 47 CT R 13:20) Class D].					
Frequency Range	Quasi-Peak Limits				
[MHz]	$[\mu V/m]$				
0.009-0.490	2400/F (kHz)				
0.490-1.705	24000/F (kHz)				
1.705-30	30				
30-88	100				
88-216	150				
216-960	200				
Above960	500				

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 WiFi mode (30MHz - 1GHz): Pass

Please refer to the following table for result details

Horizontal





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Result of WiFi mode (30MHz - 1GHz): Pass

Radiated Emissions							
Quasi-Peak							
Emission E-Field Level Limit Level Limit							
Frequency	Polarity	@3m	@3m	@3m	@3m		
MHz	MHz $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$						
30.3	Horizontal	30.0	40.0	31.6	100		
400.0	Horizontal	36.2	46.0	64.6	200		
705.7	Horizontal	37.7	46.0	76.7	200		



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

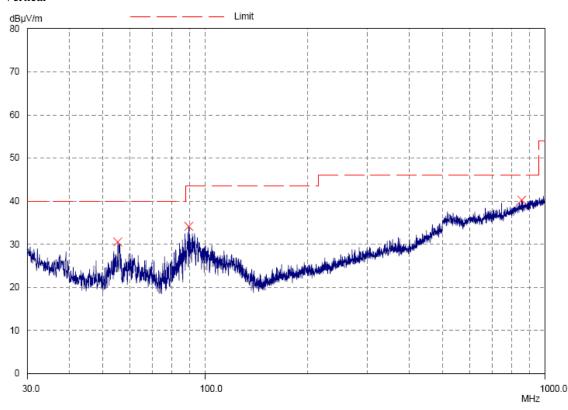
Emilis for Radiated Emissions [FCC 47 CFR 13.207 Class b].				
Frequency Range	Quasi-Peak Limits			
[MHz]	$[\mu V/m]$			
0.009-0.490	2400/F (kHz)			
0.490-1.705	24000/F (kHz)			
1.705-30	30			
30-88	100			
88-216	150			
216-960	200			
Above960	500			

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 WiFi mode (30MHz - 1GHz): Pass

Please refer to the following table for result details

Vertical





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Result of WiFi mode (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	$dB\mu V/m$	dBμV/m
55.4	Vertical	30.1	40.0	32.0	100
89.6	Vertical	34.0	43.5	50.1	150
854.8	Vertical	38.2	46.0	81.3	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 C63.10:2013

Test Date: 2015-07-08 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= 10KHz , 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 (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-11.20	8dBm
2437.0	-10.53	8dBm
2462.0	-10.94	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	-15.05	8dBm
2437.0	-15.41	8dBm
2462.0	-15.53	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	-20.61	8dBm
2437.0	-20.47	8dBm
2462.0	-19.68	8dBm

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

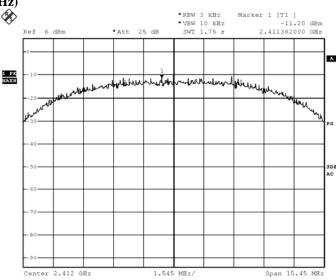
Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-23.62	8dBm
2437.0	-22.42	8dBm
2452.0	-22.77	8dBm



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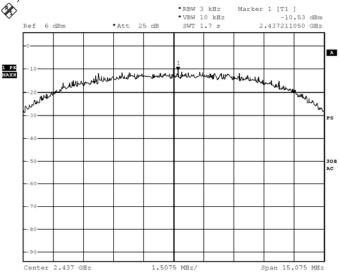
No.: DM119852

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



BMP Date: 8.JUL.2015 19:18:10

CH 6 (2437.0 MHz)

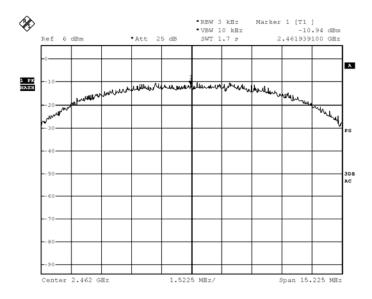


BMP Date: 8.JUL.2015 19:21:52



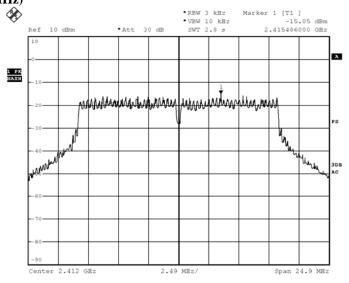
Date: 2015-07-16 Page 41 of 107 No.: DM119852

CH 11 (2462.0 MHz)



BMP Date: 8.JUL.2015 19:23:26

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

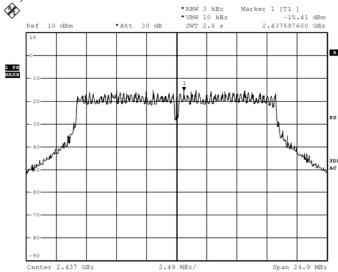


Date: 8.JUL.2015 19:27:49



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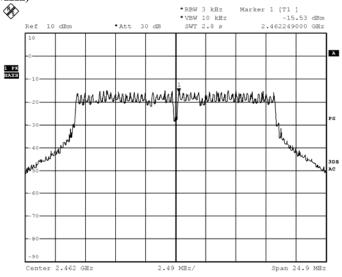
CH 6 (2437.0 MHz)



BMP

Date: 8.JUL.2015 19:28:50

CH 11 (2462.0 MHz)



BMP

Date: 8.JUL.2015 19:33:11

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

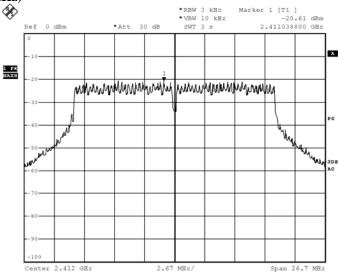


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No.: DM119852

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

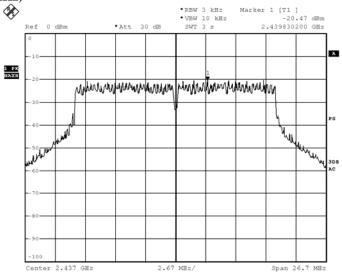
CH 1 (2412.0 MHz)



BMP

Date: 8.JUL.2015 19:35:07

CH 6 (2437.0 MHz)



BMP

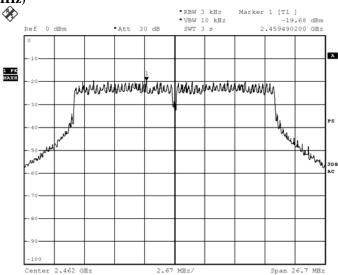
Date: 8.JUL.2015 19:37:58



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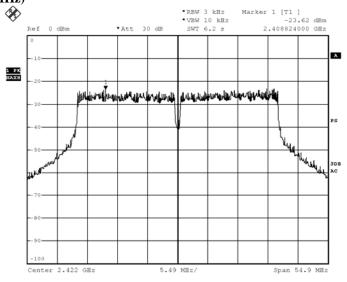
Ch 11 (2462.0 MHz)



BMP

Date: 8.JUL.2015 19:39:03

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



BMP

Date: 8.JUL.2015 19:44:28

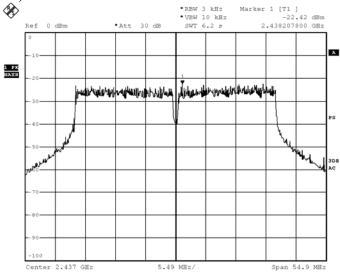
STC (Dongguan) Company Limited

68 Furnin 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



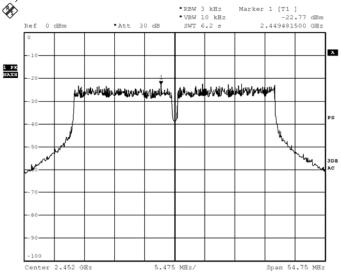
Date: 2015-07-16 Page 45 of 107 No.: DM119852

CH 6 (2437.0 MHz)



BMP Date: 8.JUL.2015 19:46:42

Ch 9 (2452.0 MHz)



3MP

Date: 8.JUL.2015 19:52:32



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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	-10.54	8dBm
2437.0	-9.86	8dBm
2462.0	-10.03	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	-14.72	8dBm
2437.0	-14.22	8dBm
2462.0	-13.43	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	-20.10	8dBm
2437.0	-19.38	8dBm
2462.0	-18.87	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	-22.10	8dBm
2437.0	-22.77	8dBm
2452.0	-21.01	8dBm

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

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-4.847	8dBm
2437.0	-4.172	8dBm
2462.0	-4.451	8dBm

Results of WiFi Mode 802.11 g (Tx:2422MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density (Antenna A+B)

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-8.871	8dBm
2437.0	-8.767	8dBm
2452.0	-8.345	8dBm

Results of WiFi Mode 802.11 n20 (Tx:2412MHz to 2462MHz) : 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
2412.0	-14.337	8dBm
2437.0	-13.881	8dBm
2462.0	-13.247	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	Maximum Power spectral density / 3kHz band limit
2422.0	(dBm) -16.786	8dBm
2437.0	-16.580	8dBm
2452.0	-15.793	8dBm

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

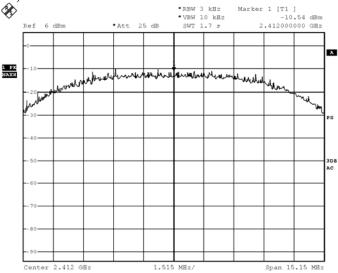


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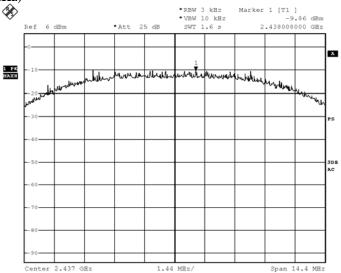
WiFi mode 802.11 b, (Tx: 2412MHz to 2462MHz) (Antenna B)

CH 1 (2412.0 MHz)



BMP Date: 8.JUL.2015 19:19:18

CH 6 (2437.0 MHz)

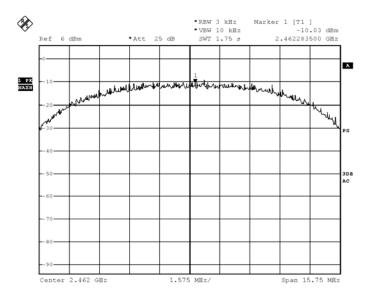


Date: 8.JUL.2015 19:20:32



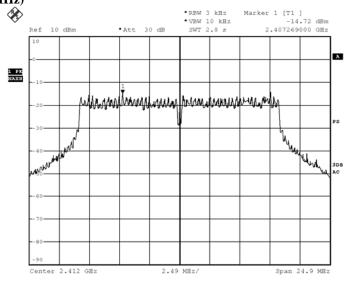
Date: 2015-07-16 Page 49 of 107 No.: DM119852

CH 11 (2462.0 MHz)



BMP Date: 8.JUL.2015 19:24:33

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



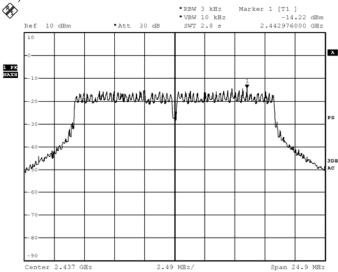
Date: 8.JUL.2015 19:26:55



Date: 2015-07-16 Page 50 of 107

No.: DM119852

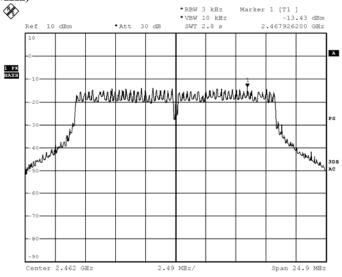
CH 6 (2437.0 MHz)



BMP

Date: 8.JUL.2015 19:29:40

CH 11 (2462.0 MHz)



BMP

Date: 8.JUL.2015 19:31:44

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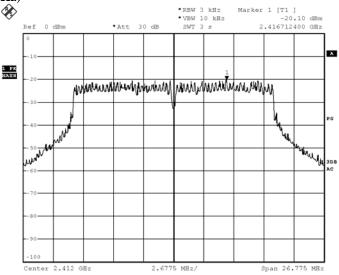


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WiFi mode 802.11 n20, (Tx: 2412MHz to 2462MHz) (Antenna A)

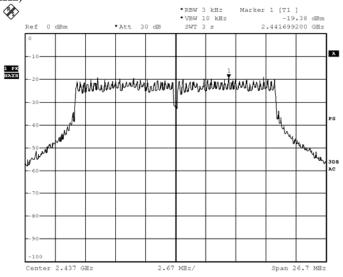
CH 1 (2412.0 MHz)



MP

Date: 8.JUL.2015 19:36:06

CH 6 (2437.0 MHz)



BMP

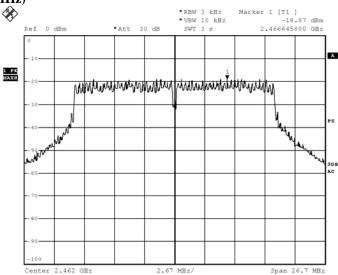
Date: 8.JUL.2015 19:37:10



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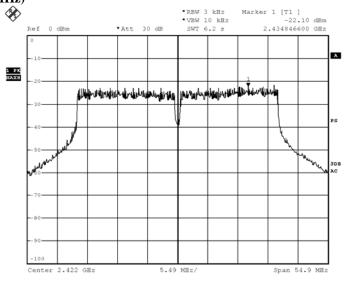
No.: DM119852

Ch 11 (2462.0 MHz)



BMP Date: 8.JUL.2015 19:40:09

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



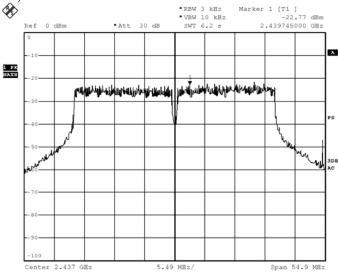
BMP Date: 8.JUL.2015 19:43:04



Date: 2015-07-16 Page 53 of 107

No.: DM119852

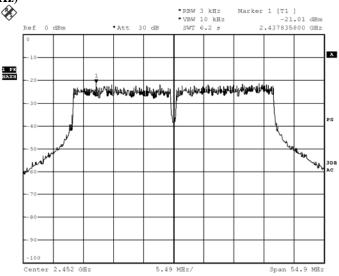
CH 6 (2437.0 MHz)



MP

Date: 8.JUL.2015 19:48:30

Ch 9 (2452.0 MHz)



BMP

Date: 8.JUL.2015 19:50:45



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3.1.4 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2013

Test Date: 2015-07-08 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.



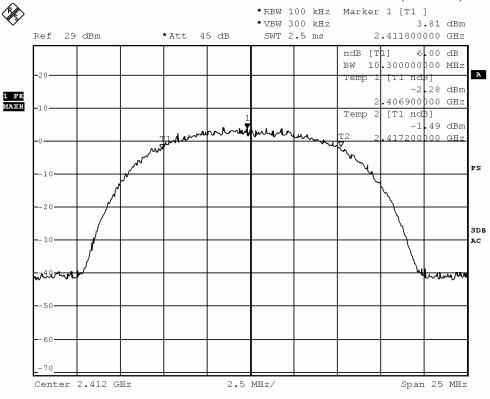
Date: 2015-07-16 Page 55 of 107

No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	10.30	> 500

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



BMP

Date: 8.JUL.2015 14:40:59



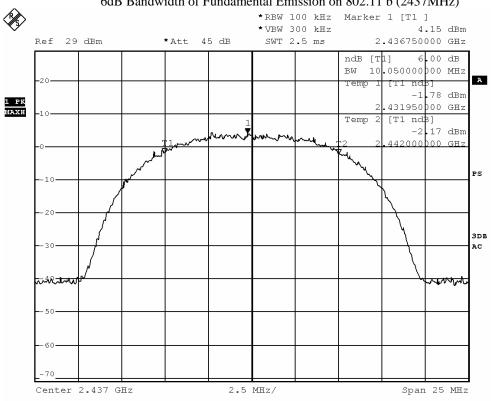
Date: 2015-07-16 Page 56 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	10.05	> 500

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



BMP

Date: 8.JUL.2015 14:41:50



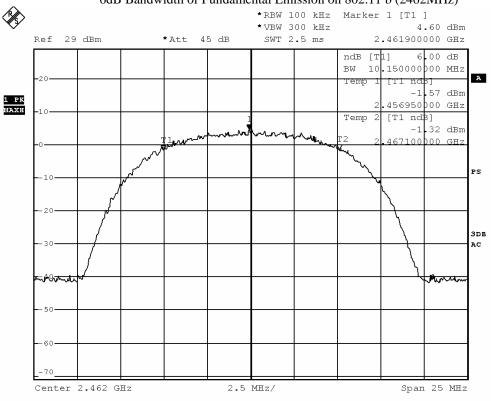
Date: 2015-07-16 Page 57 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	10.15	> 500

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



BMP

Date: 8.JUL.2015 14:51:08

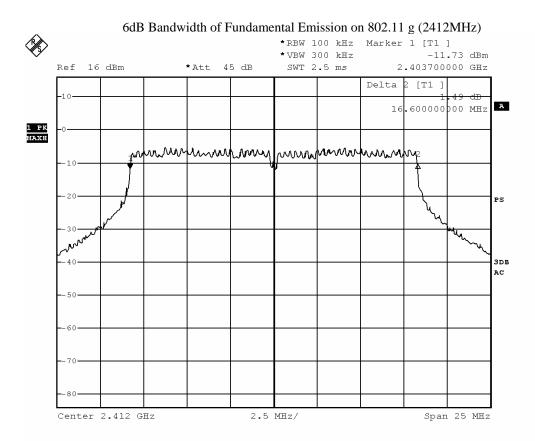


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No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	16.60	> 500



BMP

Date: 8.JUL.2015 14:56:28



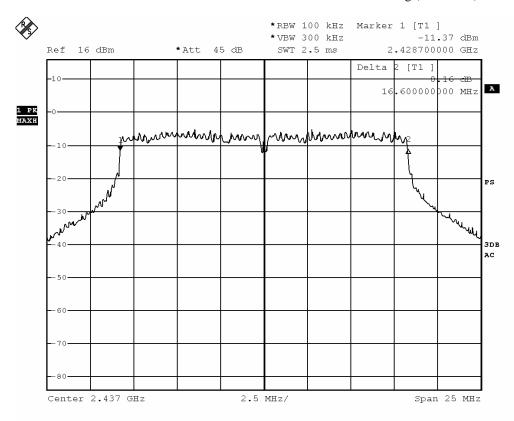
Date: 2015-07-16 Page 59 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	16.60	> 500

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



BMP

Date: 8.JUL.2015 15:01:14



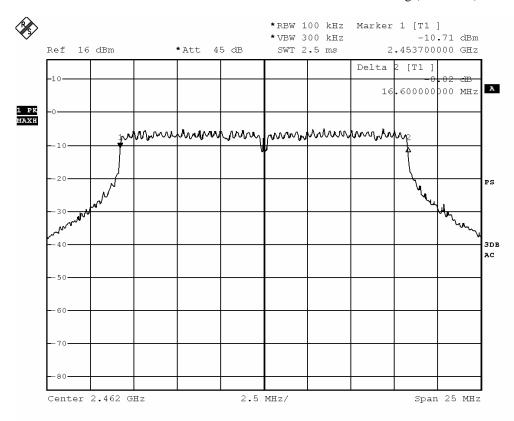
Date: 2015-07-16 Page 60 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	16.60	> 500

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



BMP

Date: 8.JUL.2015 15:03:07



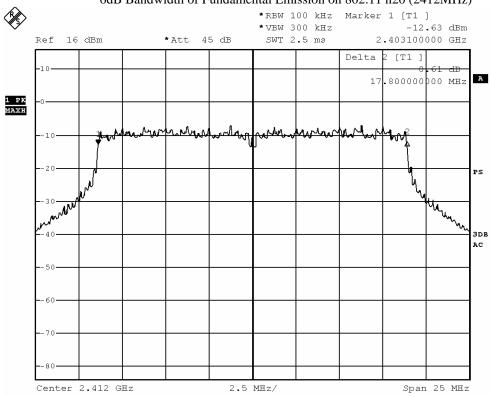
Date: 2015-07-16 Page 61 of 107

No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	17.80	> 500

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



BMP

Date: 8.JUL.2015 15:08:47



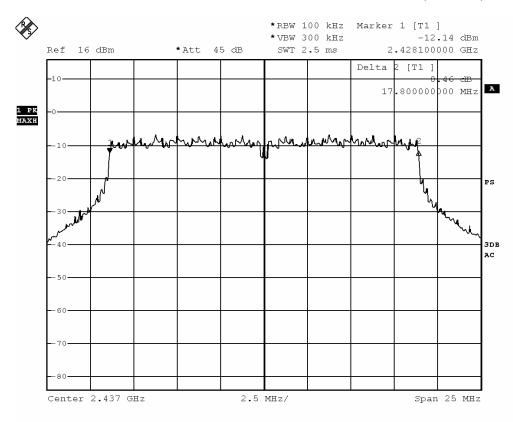
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No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	17.80	> 500

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



BMP

Date: 8.JUL.2015 15:10:15



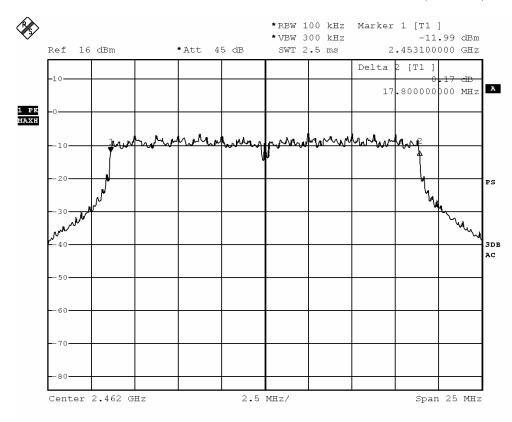
Date: 2015-07-16 Page 63 of 107

No.: DM119852

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

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

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



BMP

Date: 8.JUL.2015 15:15:21



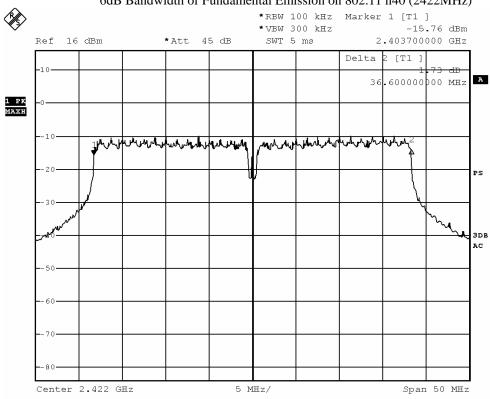
Date: 2015-07-16 Page 64 of 107

No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2422.0	36.60	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n40 (2422MHz)



BMP

Date: 8.JUL.2015 15:25:44



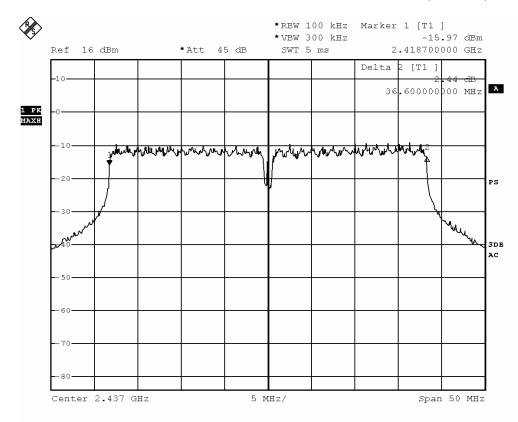
Date: 2015-07-16 Page 65 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	36.60	> 500

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



BMP

Date: 8.JUL.2015 15:28:46



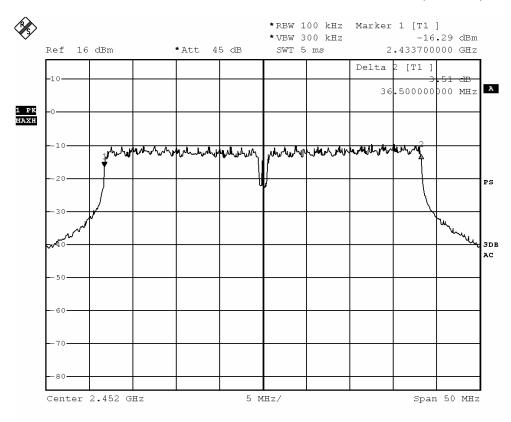
Date: 2015-07-16 Page 66 of 107

No.: DM119852

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)



BMP

Date: 8.JUL.2015 15:35:55



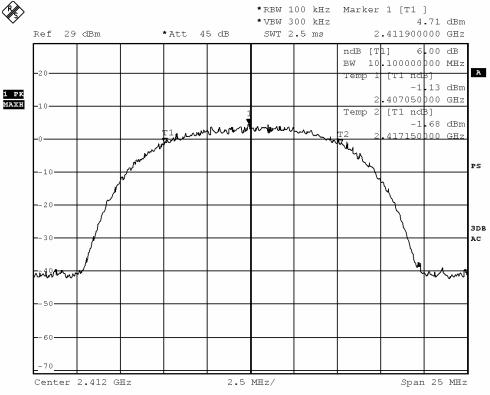
Date: 2015-07-16 Page 67 of 107

No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	10.10	> 500

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



 ${\rm BMP}$

Date: 8.JUL.2015 14:39:58



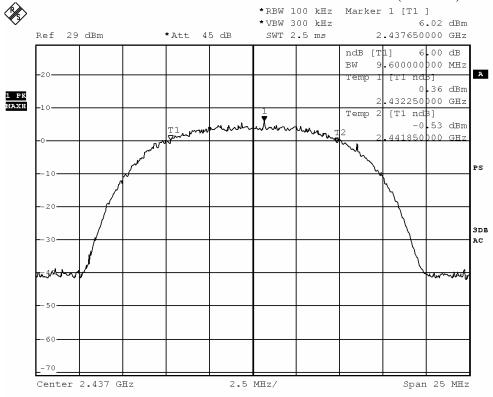
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No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	9.60	> 500

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



 BMP

Date: 8.JUL.2015 14:43:43



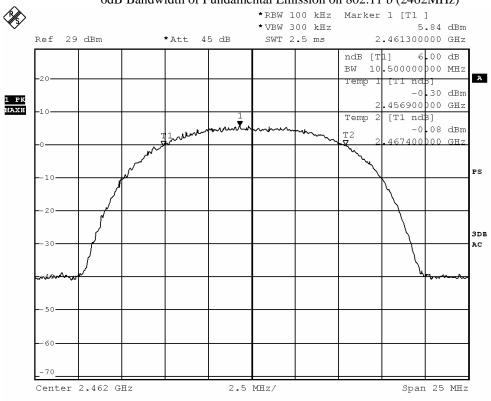
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No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	10.50	> 500

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



BMP

Date: 8.JUL.2015 14:50:08

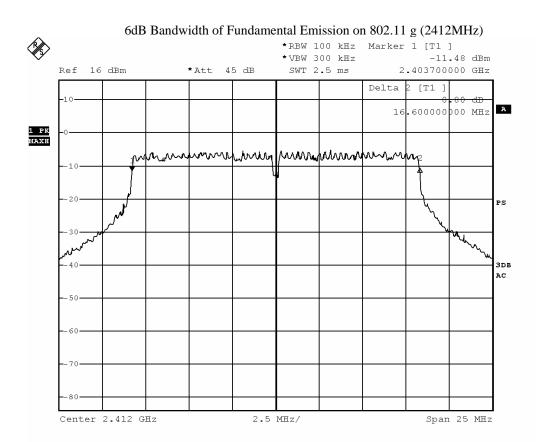


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No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	16.60	> 500



BMP

Date: 8.JUL.2015 14:57:48



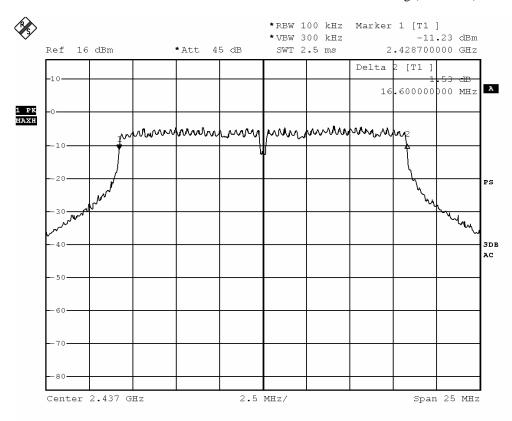
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No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	16.60	> 500

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



BMP

Date: 8.JUL.2015 15:00:00



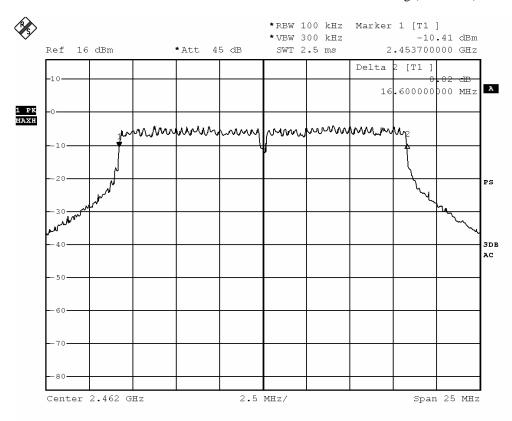
Date: 2015-07-16 Page 72 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	16.60	> 500

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



BMP

Date: 8.JUL.2015 15:04:30



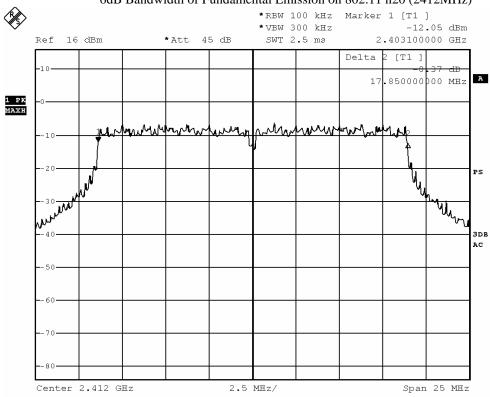
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No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	17.85	> 500

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



BMP

Date: 8.JUL.2015 15:07:09



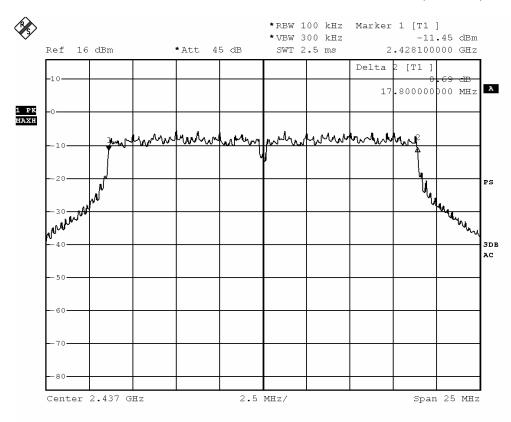
Date: 2015-07-16 Page 74 of 107

No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	17.80	> 500

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



BMP

Date: 8.JUL.2015 15:12:06



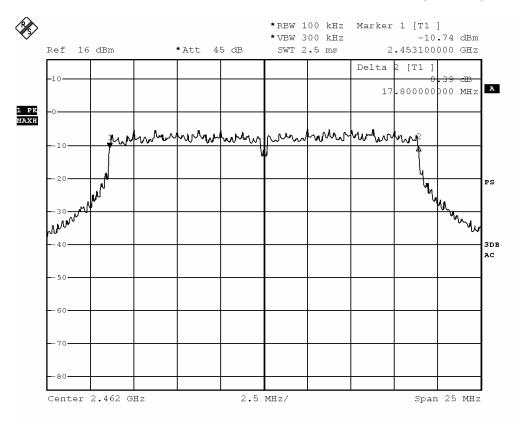
Date: 2015-07-16 Page 75 of 107

No.: DM119852

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)



BMP

Date: 8.JUL.2015 15:13:50



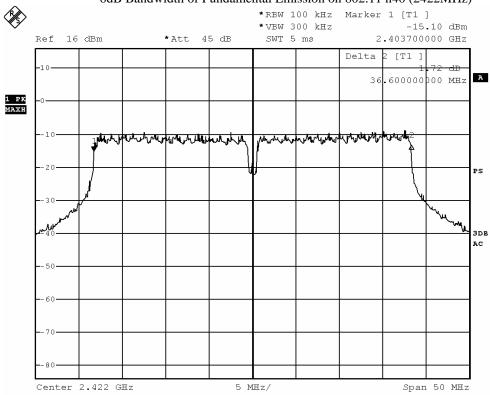
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No.: DM119852

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

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2422.0	36.60	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n40 (2422MHz)



BMP

Date: 8.JUL.2015 15:23:03



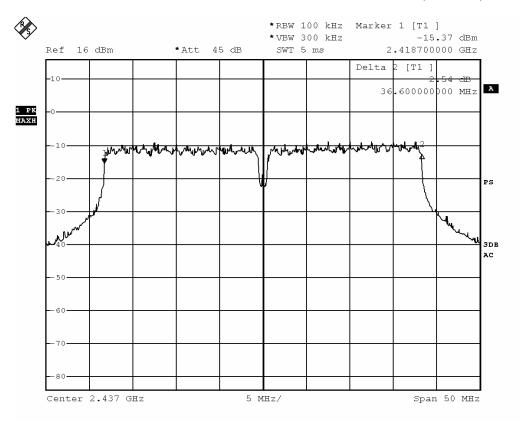
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No.: DM119852

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

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	36.60	> 500

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



BMP

Date: 8.JUL.2015 15:30:22



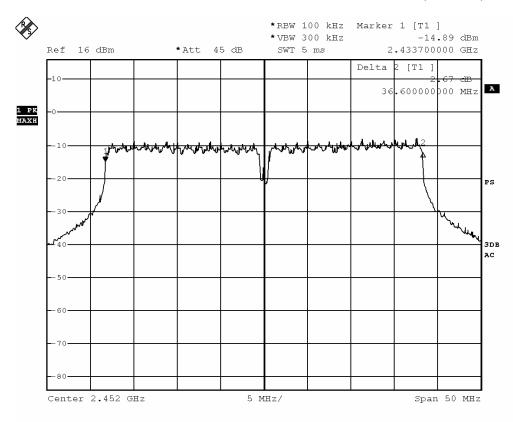
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Limits for 6dB Spectrum Bandwidth Measurement (antenna B):

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2452.0	36.60	> 500

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



BMP

Date: 8.JUL.2015 15:33:48



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3.1.5 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247 Test Method: ANSI C63.10:2013

Test Date: 2015-07-08 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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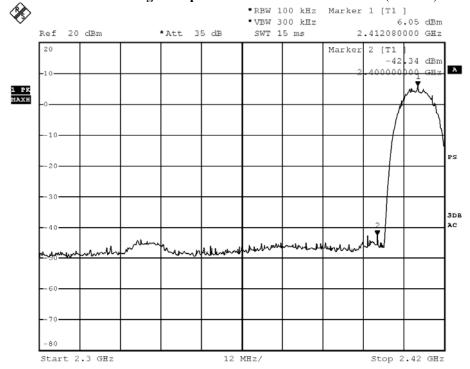
Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

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)	48.39

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



BMP

Date: 8.JUL.2015 16:25:52



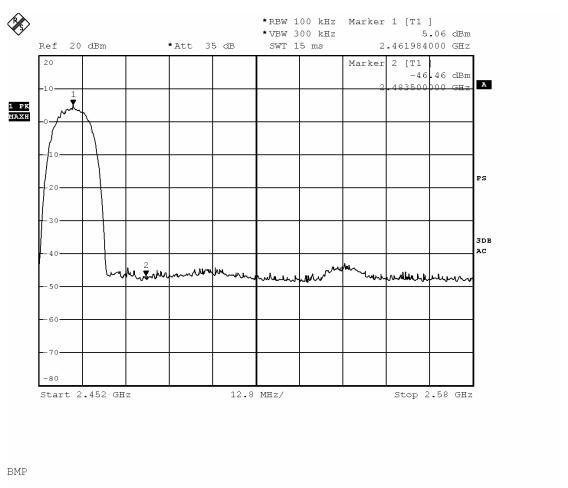
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No.: DM119852

$\label{lem:band-edge} \textbf{ Band-edge Compliance of RF Conducted Emissions Measurement (antenna \ A):}$

Frequency Range	Radiated Emission Attenuated below the
Trequency Range	
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2462)	51.52

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



Date: 8.JUL.2015 16:29:39



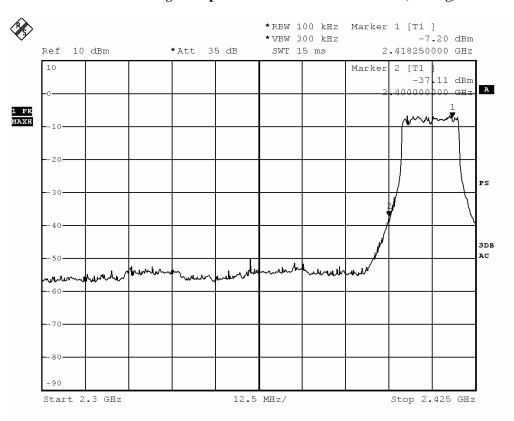
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No.: DM119852

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

Band-edge Comphanics of Re Conducted Emissions Wedsdrement (antenna 11):	
Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2412)	29.91

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



BMP

Date: 8.JUL.2015 15:54:10



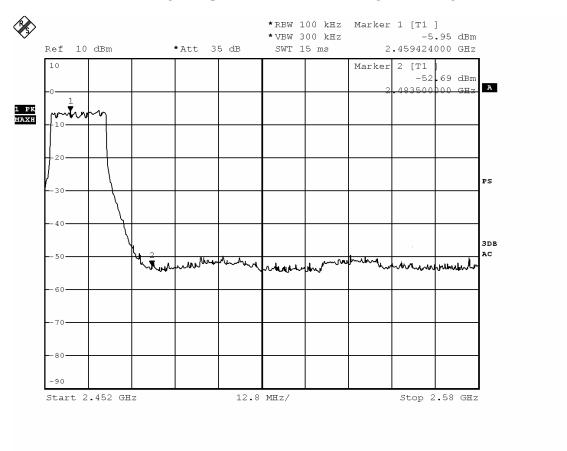
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No.: DM119852

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

I	Frequency Range	Radiated Emission Attenuated below the
	Trequency range	Fundamental
	[MHz]	[dB]
	2483.5 - Highest Fundamental (2462)	46.74

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



ВМР

Date: 8.JUL.2015 15:58:46



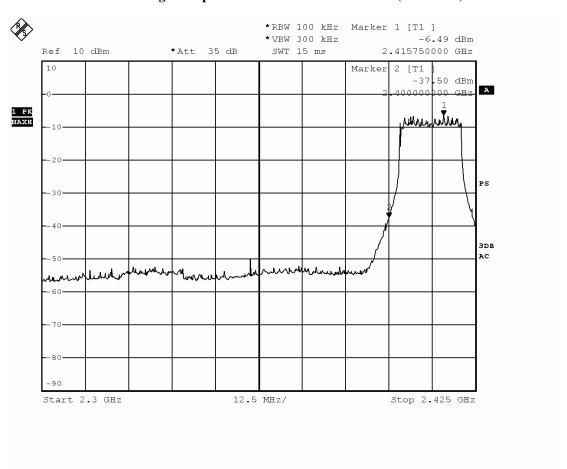
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No.: DM119852

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

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2412)	31.01

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



BMP

Date: 8.JUL.2015 16:03:02



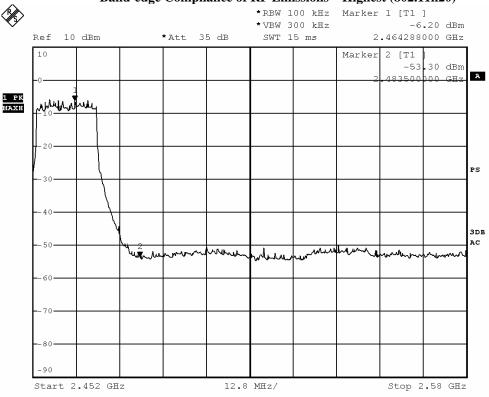
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2462)	47.1

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



BMP

Date: 8.JUL.2015 16:06:55



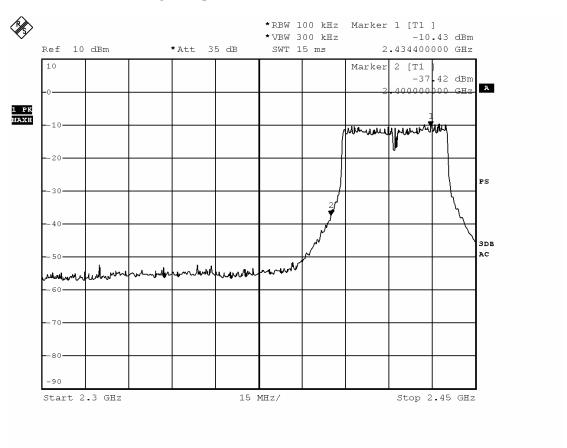
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2422)	26.99		

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



BMP

Date: 8.JUL.2015 16:09:06



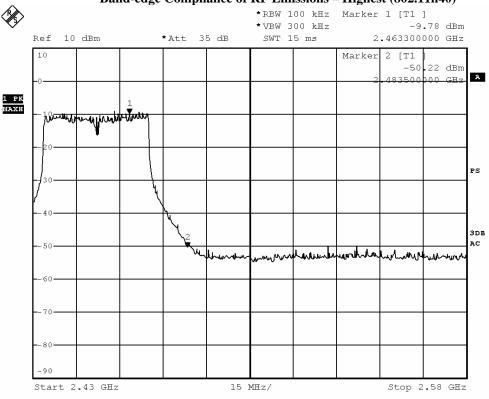
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna A):

Frequency Range	Radiated Emission Attenuated below the		
Fundamental			
[MHz]	[dB]		
2483.5 - Highest Fundamental (2452)	40.44		

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



BMP

Date: 8.JUL.2015 16:12:11



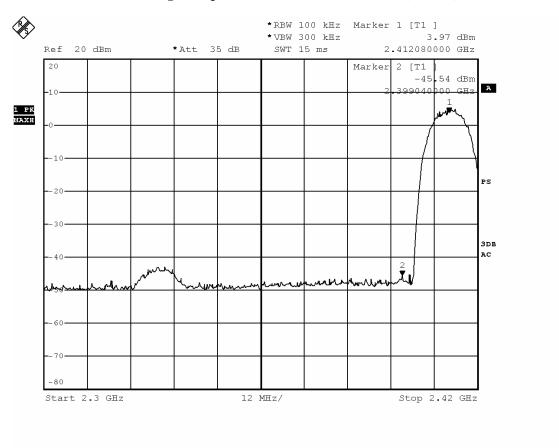
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2412)	49.51		

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



BMP

Date: 8.JUL.2015 16:26:50



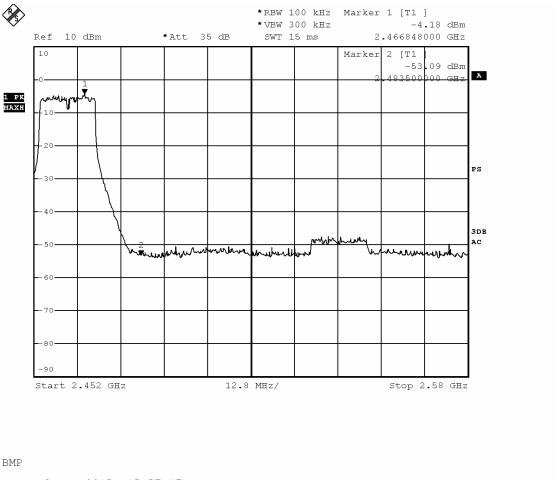
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2462)	48.91

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



Date: 8.JUL.2015 15:57:17



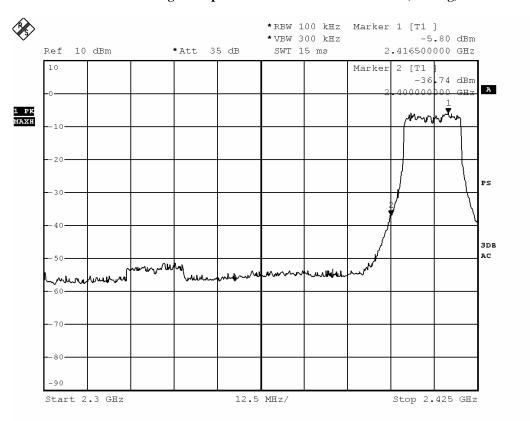
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No.: DM119852

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

 Dana-tage Comphanics of Ki Conducted Emissions without timent (antenna b).					
Frequency Range	Radiated Emission Attenuated below the				
	Fundamental				
[MHz]	[dB]				
2400 – Lowest Fundamental (2412)	30.94				

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



BMP

Date: 8.JUL.2015 15:55:29



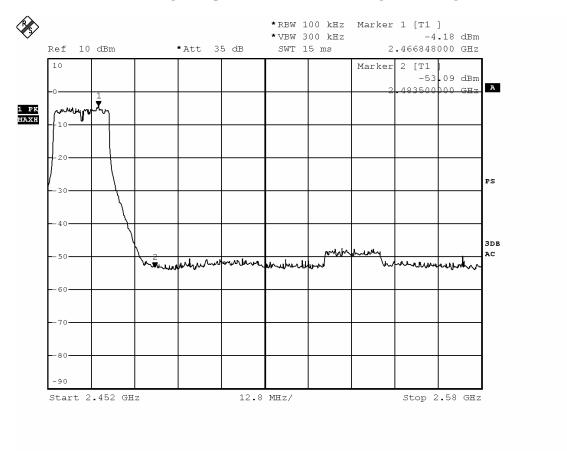
Date: 2015-07-16 Page 91 of 107

No.: DM119852

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

P	D. 1'. (. 1 D		
Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2462)	48.91		

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



ВМР

Date: 8.JUL.2015 15:57:17



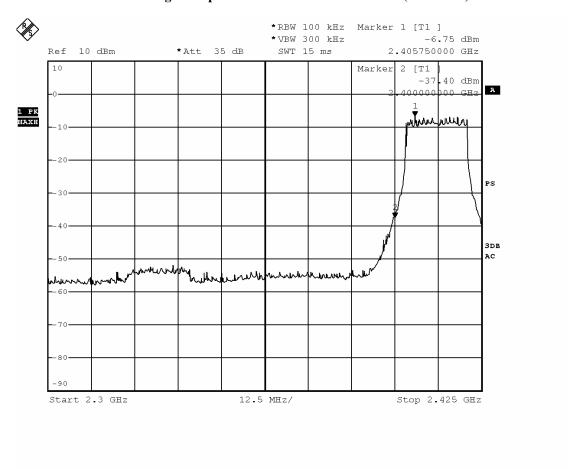
Date: 2015-07-16 Page 92 of 107

No.: DM119852

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

Γ	Frequency Range	Radiated Emission Attenuated below the		
		Fundamental		
	[MHz]	[dB]		
	2400 – Lowest Fundamental (2412)	30.65		

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



BMP

Date: 8.JUL.2015 16:04:12



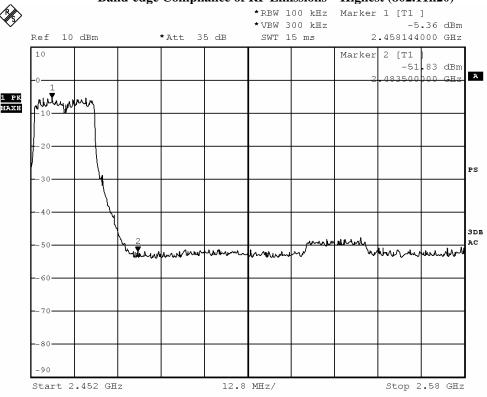
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
Fundamental			
[MHz]	[dB]		
2483.5 - Highest Fundamental (2462)	46.47		

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



BMP

Date: 8.JUL.2015 16:05:26



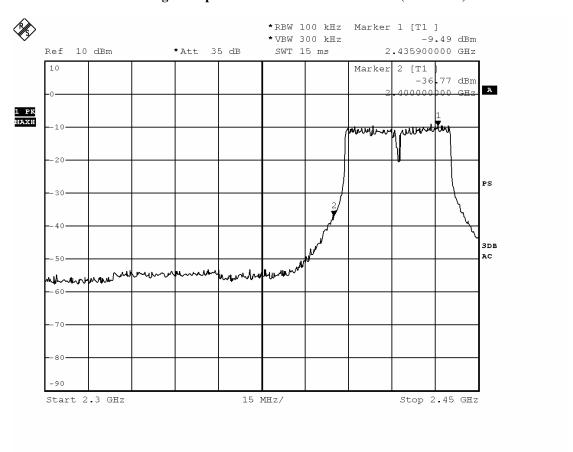
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2422)	27.28		

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



BMP

Date: 8.JUL.2015 16:10:05



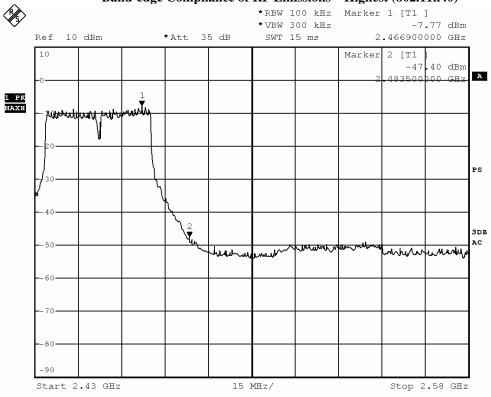
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Band-edge Compliance of RF Conducted Emissions Measurement (antenna B):

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2483.5 - Highest Fundamental (2452)	39.63		

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



BMP

Date: 8.JUL.2015 16:11:22

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No.: DM119852

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	$dB\mu V/m$	
2390.0	19.4	36.8	56.2	74.0	17.8	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	10.3	36.8	47.1	54.0	6.9	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	24.6	36.4	61.0	74.0	13.0	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	$dB\mu V/m$	dBμV/m	dBμV/m			
2483.5	4.8	36.4	41.2	54.0	12.8	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	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$			
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	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$			
2390.0	13.8	36.8	50.6	54.0	3.4	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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$				
2483.5	24.3	36.4	60.7	74.0	13.3	Horizontal			

Field Strength of Band-edge Compliance								
		A	verage Valu	e				
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	13.9	36.4	50.3	54.0	3.7	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	$dB\mu V/m$	$dB\mu V/m$	dBμV/m				
2390.0	22.0	36.8	58.8	74.0	15.2	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	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$			
2390.0	11.7	36.8	48.5	54.0	5.5	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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$				
2483.5	24.9	36.4	61.3	74.0	12.7	Horizontal			

Field Strength of Band-edge Compliance								
		A	verage Valu	e				
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	14.6	36.4	51.0	54.0	3.0	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	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$				
2390.0	21.2	36.8	58.0	74.0	16.0	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	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$			
2390.0	12.3	36.8	49.1	54.0	4.9	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						
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m		
2483.5	24.3	36.4	60.7	74.0	13.3	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	$dB\mu V/m$	$dB\mu V/m$	dBμV/m		
2483.5	13.9	36.4	50.3	54.0	3.7	Horizontal	



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3.1.6 Conducted Emissions (0.15MHz to 30MHz)

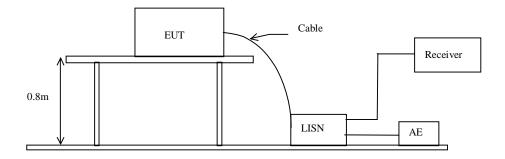
Test Requirement: FCC 47CFR 15.207 Test Method: ANSI C63.10:2013

Test Date: 2015-06-12 Mode of Operation: WiFi mode

Test Method:

The test was performed in accordance with ANSI C63.10:2013, 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):

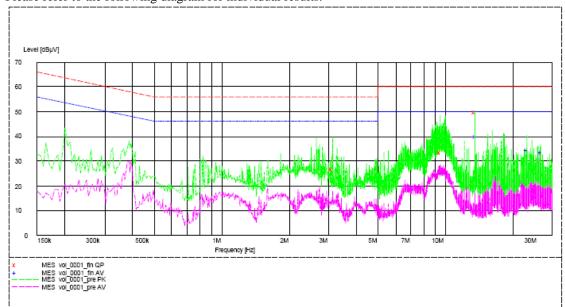
Frequency Range	Quasi-Peak Limits	Average	
[MHz]	[dBµV]	[dBµV]	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

^{*} 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	3.125	26.8	56.0	_*_	_*_
Live	9.525	33.6	60.0	_*_	_*_
Live	13.120	49.8	60.0	_*_	_*_
Live	13.125	_*_	_*_	39.7	50.0
Live	23.130	_*_	_*_	34.7	50.0
Live	26.610	_*_	_*_	33.5	50.0



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Limit for Conducted Emissions (FCC 47 CFR 15.207):

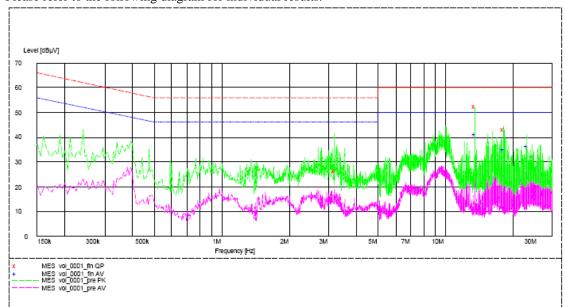
Frequency Range	Quasi-Peak Limits	Average	
[MHz]	[dBµV]	[dBµV]	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

^{*} 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		Average	
Conductor	Frequency	Level	Limit	Level	Limit
Live or Neutral	MHz	dΒμV	dΒμV	dΒμV	dΒμV
Neutral	3.190	26.6	56.0	_*_	_*_
Neutral	13.120	52.5	60.0	_*_	_*_
Neutral	18.245	43.2	60.0	_*_	_*_
Neutral	13.125	_*_	_*_	41.1	50.0
Neutral	18.245	_*_	_*_	35.4	50.0
Neutral	23.130	_*_	_*_	36.3	50.0

Remarks:

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

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^{-*-} Emission(s) that is far below the corresponding limit line.



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3.1.7 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2015-7-16 Mode of Operation: Tx mode

Test Method:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

Test Results:

The EUT complied with the requirement(s) of this section. EUT meets the requirements of these sections as proven through MPE calculation The MPE calculation for EUT @ 20 cm Based on the highest P = 262.966 mW

```
Pd = PG/ 4pi*R<sup>2</sup> = (262.966 \text{ x } 3.98)/12.566* (20)^2
= (1046.605)/12.566\text{x } 400=9.402 /5026.4
= 0.208\text{mW/cm}^2
```

where:

- *Pd = power density in mW/cm2
- * DG = (3.98); Log G = g/10 (g = 6dBi).
- * P = Conducted RF power to antenna (262.966 mW).
- * R = Minimum allowable distance.(20 cm)
- *The power density $Pd = 0.208 \text{ mW/cm}^2$ is less than 1 mW/cm^2 (listed MPE limit)
- *The SAR evaluation is not needed (this is a desk top device, R> 20 cm)
- * The EUT(antenna) must be 0.2 meters away from the General Population.



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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	2015.3.24	2016.3.24
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB 26	100388	2015.3.24	2016.3.24
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

Photographs of EUT

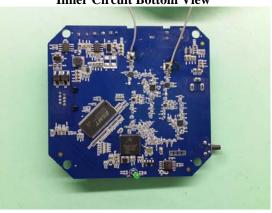
Front View of the product



Inside View of the product



Inner Circuit Bottom View



Rear View of the product



Inner Circuit Top View

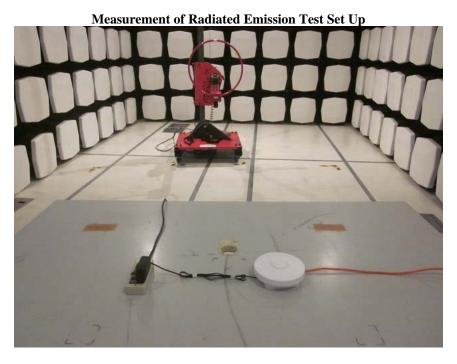


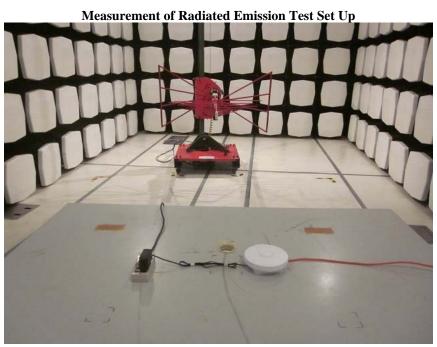


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Photographs of EUT





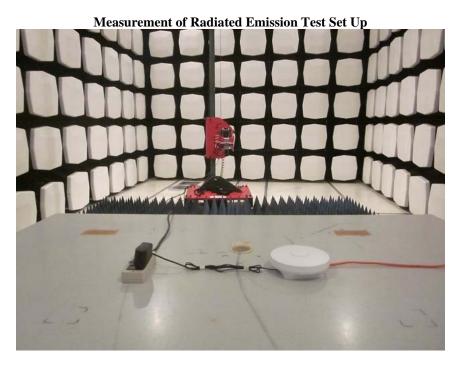
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Photographs of EUT





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

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