FCC Test Report

FCC ID : PY313200228

Equipment : 802.11abgn ac Dual Band Wireless-N Adapter

Model No. : A6100

Brand Name : NETGEAR

Applicant : NETGEAR, Inc.

Address : 350 East Plumeria Drive, San Jose, California

95134, USA

Standard : 47 CFR FCC Part 15.247

Received Date : May 08, 2013

Tested Date : Jun 26 ~ Jul 01, 2013

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

Approved & Reviewed by:

Gary Chang / Manager

Iac-MRA



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

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Release Record

Report No.	Version	Description	Issued Date
FR350802AC	Rev. 01	Initial issue	Jul 05, 2013

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.189MHz 43.48 (Margin 10.58dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50 53.88 (Margin 0.12dB) - AV	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11b: 20.26 11g: 23.86 HT20: 23.93 HT40: 23.61	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

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1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

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

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

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

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

1.1.2 Antenna Details

Ant. No.	Туре	Gain (dBi)	Connector	Frequency Range
1	PIFA	2		2.4GHz
2	PIFA	4		5GHz

1.1.3 EUT Operational Condition

Supply Voltage	☐ AC mains	□ DC	
Type of DC Source	☐ Internal DC supply	☐ External DC adapter	

1.1.4 Accessories

N/A

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1.1.5 Channel List

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

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1.1.6 Test Tool and Duty Cycle

Test Tool	MP Tool, V41					
	Mode	Duty cycle (%)	Duty factor (dB)			
	11b	98.98%	0.04			
Duty Cycle and Duty Factor	11g	95.56%	0.20			
	HT20	92.36%	0.35			
	HT40	89.86%	0.46			

1.1.7 Power Setting

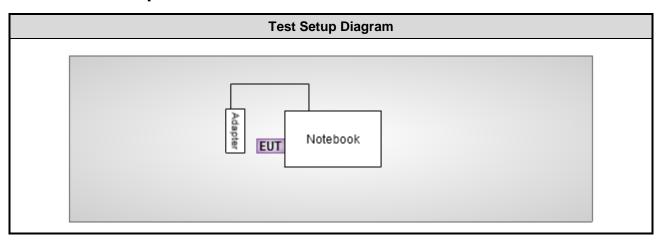
Channel	Frequency(MHz)	11b	11g	HT20	HT40
1	2412	43	53	53	48
6	2437	43	53	54	55
11	2462	43	53	52	47

Local Support Equipment List 1.2

	Support Equipment List							
No.	Equipment	Brand	Model	S/N	Signal cable / Length (m)			
1	Notebook	DELL	Latitude E5420					

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1.3 Test Setup Chart



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The Equipment List 1.4

Test Item	Conducted Emission	Conducted Emission						
Test Site	Conduction room 1 / (C	O01-WS)						
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until			
EMC Receiver	R&S	ESCS 30	100169	Oct. 02, 2012	Oct. 01, 2013			
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Dec. 04, 2012	Dec. 03, 2013			
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2012	Dec. 03, 2013			
ISN	TESEQ	ISN T800	34406	Apr. 08, 2013	Apr. 07, 2014			
ISN	TESEQ	ISN T200A	30494	Apr. 09, 2013	Apr. 08, 2014			
ISN	TESEQ	ISN T8-Cat6	27262	Sep. 17, 2012	Sep. 16, 2013			
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014			
RF Current Probe	FCC	F-33-4	121630	Dec. 04, 2012	Dec. 03, 2013			
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013			
ESH3-Z6 V-Network(+)	R&S	ESH3-Z6	100920	Nov. 21, 2012	Nov. 20, 2013			
ESH3-Z6 V-Network(-)	R&S	ESH3-Z6	100951	Jan. 30, 2013	Jan. 29, 2014			
Two-Line V-Network	R&S	ENV216	101579	Jan. 07, 2013	Jan. 06, 2014			
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014			
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014			
50 ohm terminal	NA	50	03	Apr. 22, 2013	Apr. 21, 2014			
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014			
Note: Calibration Interv	val of instruments listed a	above is one year.						

Test Item	Radiated Emission ab	Radiated Emission above 1GHz						
Test Site	966 chamber1 / (03Cl	966 chamber1 / (03CH01-WS)						
Instrument	Manufacturer	Manufacturer Model No. Serial No. Calibration Date Calibration Until						
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014			
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014			
Receiver	ROHDE&SCHWAR Z	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014			
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014			
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014			
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014			
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013			
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013			
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013			

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Test Item	Radiated Emission above 1GHz									
Test Site	966 chamber1 / (03Cl	966 chamber1 / (03CH01-WS)								
Instrument	Manufacturer	Calibration Until								
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013					
control	EM Electronics	EM1000	60612	N/A	N/A					
Note: Calibration Interval of instruments listed above is one year.										

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014					
Amplifier MITEQ		AMF-6F-260400 9121372		Apr. 19, 2013	Apr. 18, 2015					
Note: Calibration Interval of instruments listed above is two year.										

Test Item	RF Conducted										
Test Site	(TH01-WS)	TH01-WS)									
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until						
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014						
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 29, 2012	Nov. 28, 2013						
Power Meter	Anritsu	ML2495A	1241002	Oct. 15, 2012	Oct. 14, 2013						
Power Sensor	Power Sensor Anritsu		1027366	Oct. 24, 2012	Oct. 23, 2013						
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 13, 2014						
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 13, 2013	Mar. 12, 2014						
Wideband Radio Communication Tester	R&S	CMW500	106070	Jan. 29, 2013	Jan. 28, 2014						
Bluetooth Tester	R&S	CBT	100959	Jan. 09, 2013	Jan. 08, 2014						
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	Apr. 19, 2013	Apr. 18, 2014						

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1.5 Test Standards

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

47 CFR FCC Part 15.247 ANSI C63.10-2009 FCC KDB 558074 D01 DTS Meas Guidance v03

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

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

Measurement Uncertainty							
Parameters	Uncertainty						
Bandwidth	±35.286 Hz						
Conducted power	±0.536 dB						
Frequency error	±35.286 Hz						
Temperature	±0.3 °C						
Conducted emission	±2.946 dB						
AC conducted emission	±2.43 dB						
Radiated emission	±2.49 dB						

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By	
AC Conduction	CO01-WS	22°C / 52%	Skys Huang	
Radiated Emissions	03CH01-WS	25°C / 65%	Haru Yang	
RF Conducted	TH01-WS	24°C / 63%	Brad Wu	

FCC site registration No.: 657002IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test channel
Conducted Emissions	HT20	2437
Radiated Emissions < 1GHz	HT20	2437
Radiated Emissions > 1GHz Fundamental Emission Output Power 6dB Bandwidth Power Spectral Density	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452

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3 Transmitter Test Results

3.1 Conducted Emissions

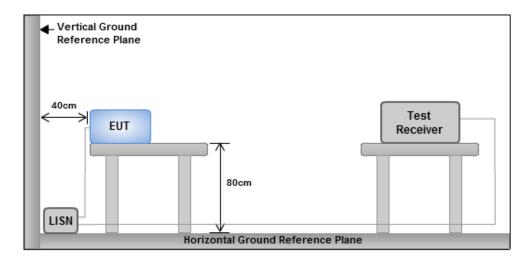
3.1.1 Limit of Conducted Emissions

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

3.1.2 Test Procedures

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

3.1.3 Test Setup



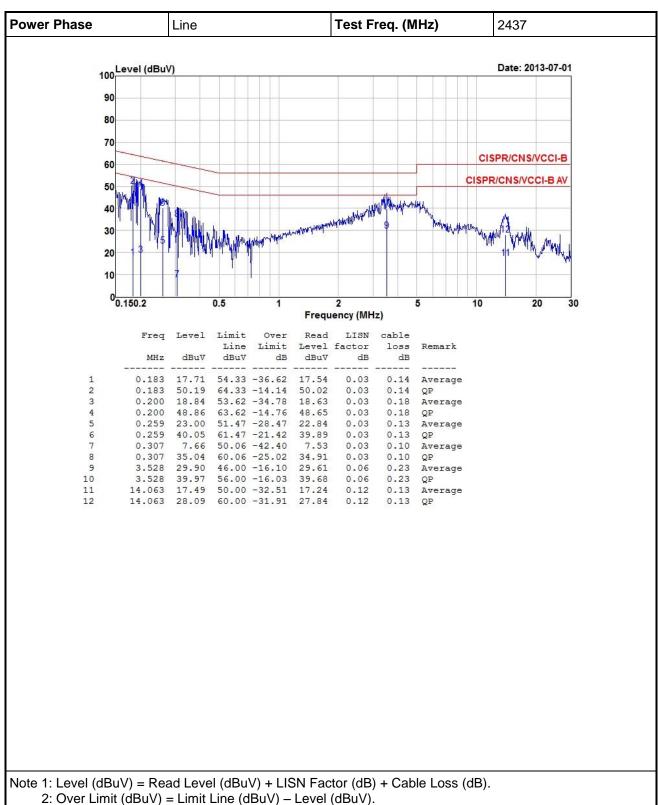
Note: 1. Support units were connected to second LISN.

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

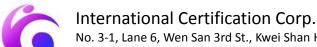
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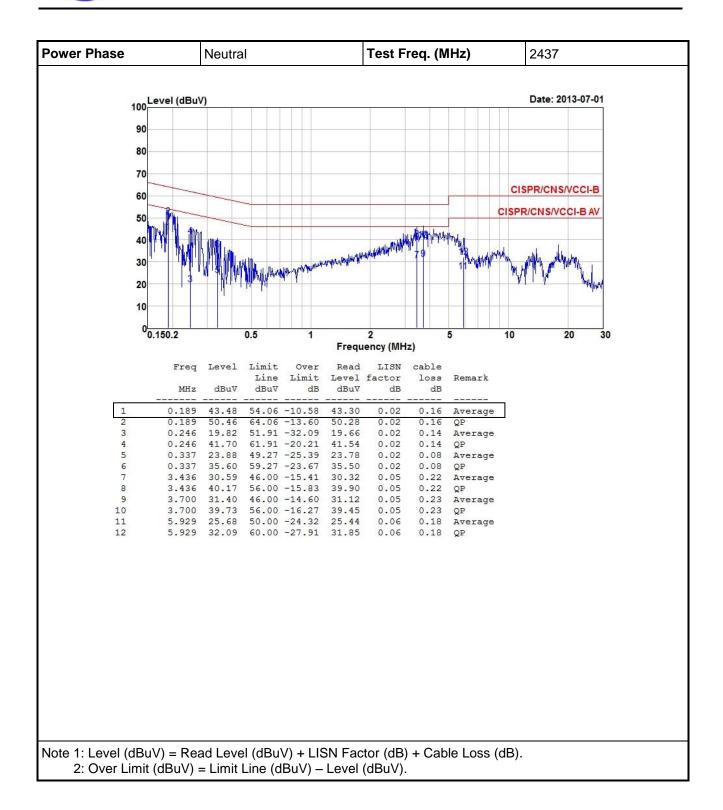
3.1.4 Test Result of Conducted Emissions



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3.2 6dB and Occupied Bandwidth

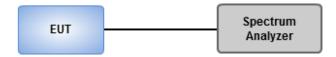
3.2.1 Limit of 6dB Bandwidth

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

3.2.2 Test Procedures

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

3.2.3 Test Setup

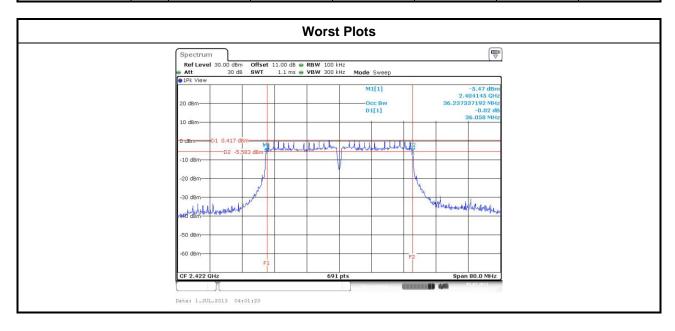


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3.2.4 Test Result of 6dB and Occupied Bandwidth

Modulation	N.	Eros (MU=)		6dB Bandwidth (MHz)					
Mode	N _{TX}	Freq. (MHz)	Chain 0	Chain 1	Chain 2	Chain 3	Limit (kHz)		
11b	1	2412	10.09				500		
11b	1	2437	10.09				500		
11b	1	2462	10.03				500		
11g	1	2412	16.29				500		
11g	1	2437	16.35				500		
11g	1	2462	16.35				500		
HT20	1	2412	17.33				500		
HT20	1	2437	17.57				500		
HT20	1	2462	17.33				500		
HT40	1	2412	36.06				500		
HT40	1	2437	36.06				500		
HT40	1	2462	36.06				500		



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HT40

HT40

1

1

2437

2462

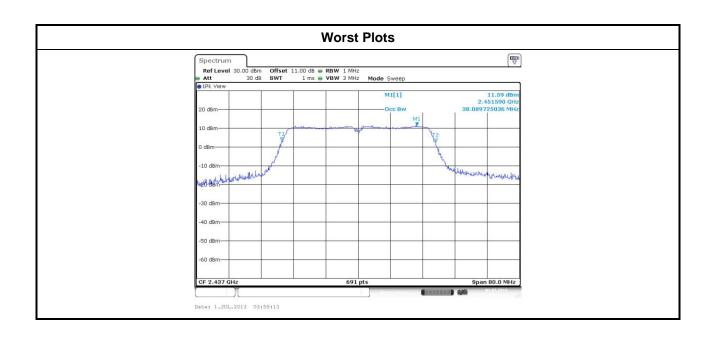
38.09

37.40

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Modulation	N	Freq.		99% Occupied E	Bandwidth (MHz)	
Mode	N _{TX}	(MHz)	Chain 0	Chain 1	Chain 2	Chain 3
11b	1	2412	15.11			
11b	1	2437	15.05			
11b	1	2462	15.11			
11g	1	2412	17.13			
11g	1	2437	17.19			
11g	1	2462	17.08			
HT20	1	2412	17.02			
HT20	1	2437	17.13			
HT20	1	2462	17.13			
HT40	1	2412	37.40			



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3.3 RF Output Power

3.3.1 Limit of RF Output Power

Con	duct	ed p	ower shall not exceed 1Watt.							
\boxtimes	Ant	enna	gain <= 6dBi, no any corresponding reduction is in output power limit.							
	Ant	enna	gain > 6dBi							
		The	n Fixed, point to point operations. e conducted output power from the intentional radiator shall be reduced by the amount in dB the directional gain of the antenna exceeds 6 dB							
		Sys Ope	ed, point to point operations tems operations. The same that are used exclusively for fixed, point-to-point erations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 that the directional gain of the antenna exceeds 6 dBi.							
			tems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point rations ,no any corresponding reduction is in transmitter peak output power							
3.3.	2	Tes	t Procedures							
	Max	ximum Peak Conducted Output Power								
		Spe	ectrum analyzer							
		1.	Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.							
		2.	Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.							
		3.	Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.							
	\boxtimes	Pov	ver meter							
		1.	A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.							
\boxtimes	Max	ximuı	m Conducted Output Power (For reference only)							
		Spe	ectrum analyzer							
		1.	Set RBW = 1MHz, VBW = 3MHz, Detector = RMS.							
		2.	Set the sweep time to: $\geq 10 \text{ x}$ (number of measurement points in sweep) x (maximum data rate per stream).							
		3.	Perform the measurement over a single sweep.							
		4.	Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW(26dBc) band edges.							

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

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Nower meter

burst for measuring output power.



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3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Modulation		Freq.		Peak Pov	ver (dBm)		Total	Total	Limit
Mode	N _{TX}	(MHz)	Chain 0	Chain 1	Chain 2	Chain 3	Power (mW)	Power (dBm)	(dBm)
11b	1	2412	19.78				95.06	19.78	30
11b	1	2437	20.26				106.17	20.26	30
11b	1	2462	20.14				103.28	20.14	30
11g	1	2412	23.65				231.74	23.65	30
11g	1	2437	23.86				243.22	23.86	30
11g	1	2462	23.66				232.27	23.66	30
HT20	1	2412	23.32				214.78	23.32	30
HT20	1	2437	23.93				247.17	23.93	30
HT20	1	2462	23.36				216.77	23.36	30
HT40	1	2412	22.63				183.23	22.63	30
HT40	1	2437	23.61				229.61	23.61	30
HT40	1	2462	22.15				164.06	22.15	30

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Modulation		Freq.	A	verage Po	ower (dBm	1)	Total	Total	Limit
Mode	N _{TX}	(MHz)	Chain 0	Chain 1	Chain 2	Chain 3	Power (mW)	Power (dBm)	(dBm)
11b	1	2412	17.29				53.58	17.29	30
11b	1	2437	17.82				60.53	17.82	30
11b	1	2462	17.73				59.29	17.73	30
11g	1	2412	17.24				52.97	17.24	30
11g	1	2437	17.41				55.08	17.41	30
11g	1	2462	17.28				53.46	17.28	30
HT20	1	2412	16.53				44.98	16.53	30
HT20	1	2437	17.58				57.28	17.58	30
HT20	1	2462	16.56				45.29	16.56	30
HT40	1	2412	14.57				28.64	14.57	30
HT40	1	2437	17.53				56.62	17.53	30
HT40	1	2462	14.23				26.49	14.23	30

Note: Average power is for reference only

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3.4 Power Spectral Density

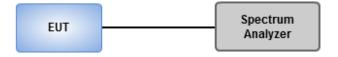
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

- Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - Set the RBW = 30kHz, VBW = 100kHz.
 - Detector = Peak, Sweep time = auto couple.
 - 3. Trace mode = max hold, allow trace to fully stabilize.
 - 4. Use the peak marker function to determine the maximum amplitude level.
- Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - 1. Set the RBW = 100kHz, VBW = 300 kHz.
 - 2. Detector = RMS, Sweep time = auto couple.
 - 3. Set the sweep time to: ≥ 10 x (number of measurement points in sweep) x (maximum data rate per stream).
 - 4. Perform the measurement over a single sweep.
 - 5. Use the peak marker function to determine the maximum amplitude level.\

3.4.3 Test Setup

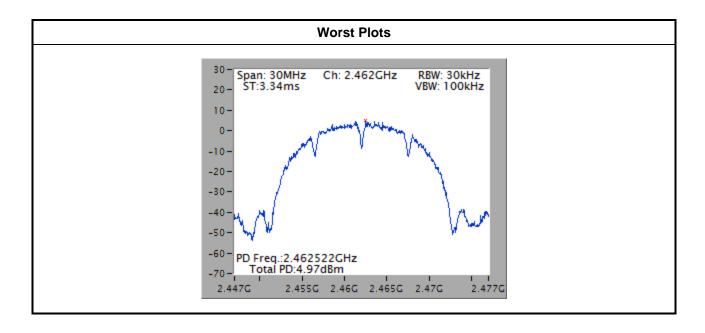


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Test Result of Power Spectral Density 3.4.4

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/30kHz)	Limit (dBm/3kHz)
11b	1	2412	4.43	8
11b	1	2437	4.65	8
11b	1	2462	4.97	8
11g	1	2412	1.05	8
11g	1	2437	0.82	8
11g	1	2462	1.18	8
HT20	1	2412	1.67	8
HT20	1	2437	1.31	8
HT20	1	2462	0.86	8
HT40	1	2412	-5.11	8
HT40	1	2437	-2.12	8
HT40	1	2462	-5.44	8



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3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

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

Note 1:

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

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

3.5.2 Test Procedures

- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

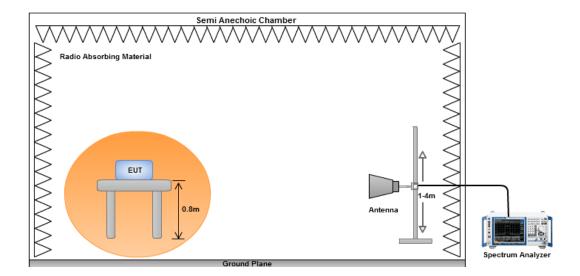
- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission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

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No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Tel: 886-3-271-8666 Fax: 886-3-318-0155

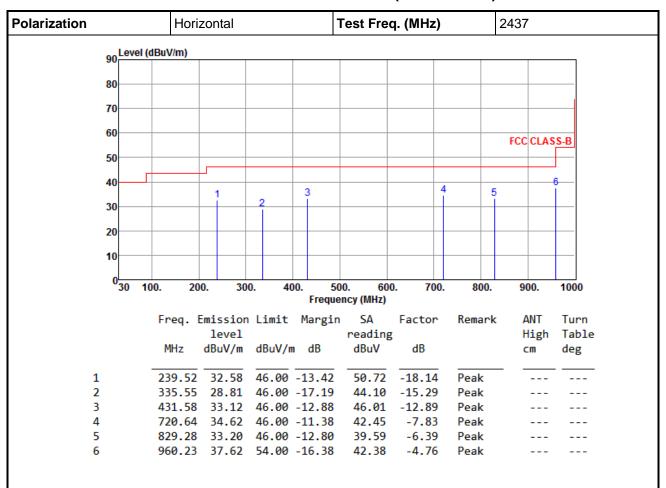
3.5.3 Test Setup



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

3.5.4 **Transmitter Radiated Unwanted Emissions (Below 1GHz)**



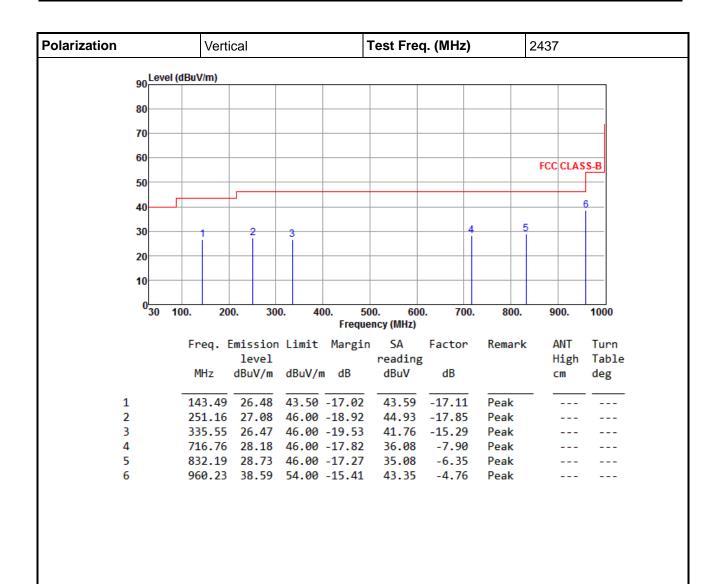
Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamp Factor (dB).

2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).

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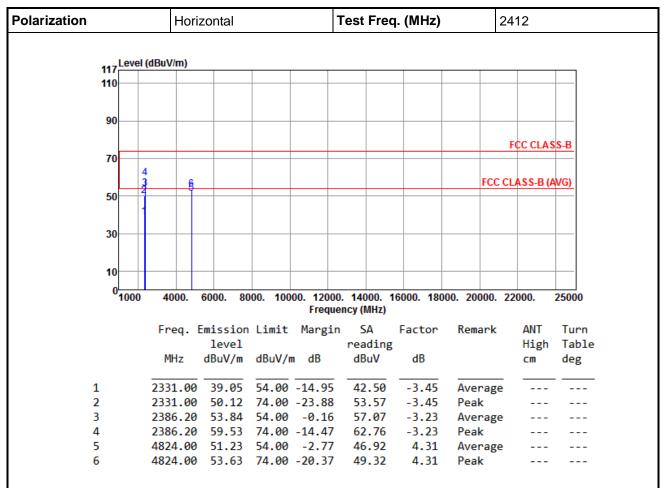


Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamp Factor (dB). 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).

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



Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



3

4

5

6

2386.20

2386.20

4824.00

4824.00

52.87

58.43

52.78

55.25

54.00 -1.13

74.00 -15.57

54.00 -1.22

74.00 -18.75

56.10

61.66

48.47

50.94

-3.23

-3.23

4.31

4.31

Average

Average

Peak

Peak

International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Tel: 886-3-271-8666 Fax: 886-3-318-0155

Polarization Vertical Test Freq. (MHz) 2412 117 Level (dBuV/m) 110 90 FCC CLASS-B 70 FCC CLASS-B (AVG) 50 30 10 0<mark>1000</mark> 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Frequency (MHz) SA ANT Freq. Emission Limit Margin Factor Remark Turn reading Table level High MHz dBuV dBuV/m dBuV/m dB dΒ cmdeg 2331.00 39.05 54.00 -14.95 42.50 -3.45 Average 1 2 2331.00 49.65 74.00 -24.35 53.10 -3.45 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

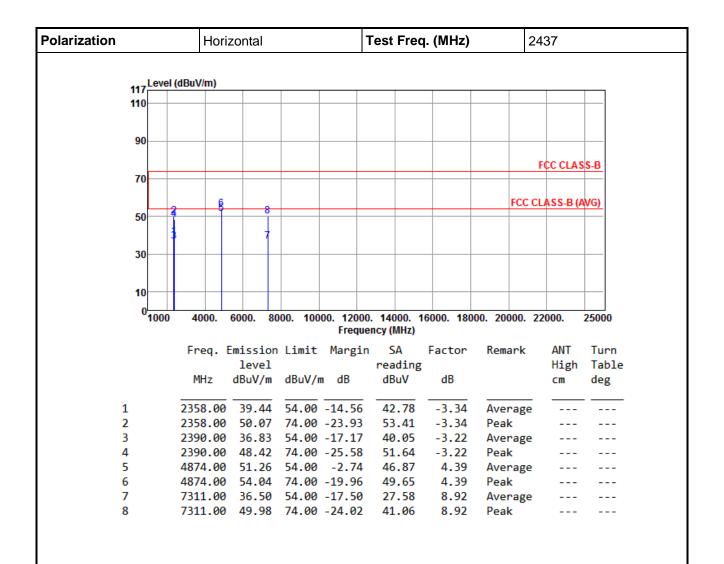
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Polarization Vertical Test Freq. (MHz) 2437 117 Level (dBuV/m) 110 90 FCC CLAS S-B 70 FCC CLASS-B (AVG) 50 30 10 0<mark>1000</mark> 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Frequency (MHz) ANT Freq. Emission Limit Margin SA Factor Remark Turn Table level reading High dBuV/m dBuV/m dB dBuV MHz dB cmdeg 2358.00 39.27 54.00 -14.73 42.61 -3.34 Average 1 2 2358.00 50.35 74.00 -23.65 53.69 -3.34 Peak 54.00 -17.71 3 2390.00 36.29 39.51 -3.22 Average 4 2390.00 48.51 74.00 -25.49 51.73 -3.22 Peak 5 4874.00 52.65 54.00 -1.35 48.26 4.39 Average 6 4874.00 55.21 74.00 -18.79 50.82 4.39 Peak 7 7311.00 36.56 54.00 -17.44 27.64 8.92 Average 8 74.00 -24.38 7311.00 49.62 40.70 8.92 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

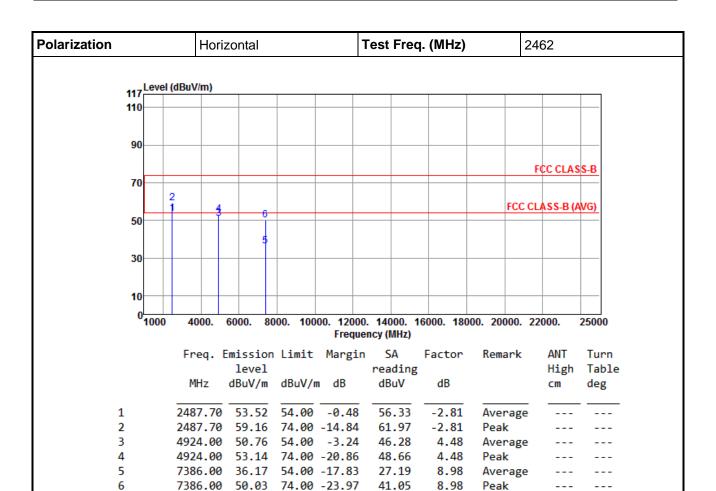
Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

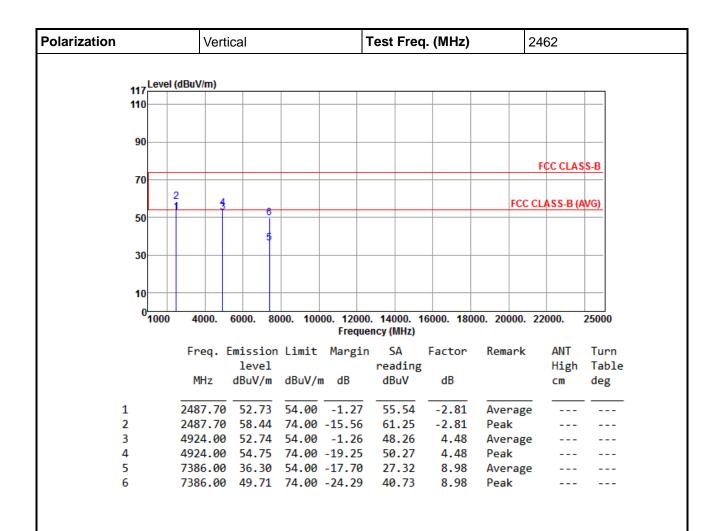
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

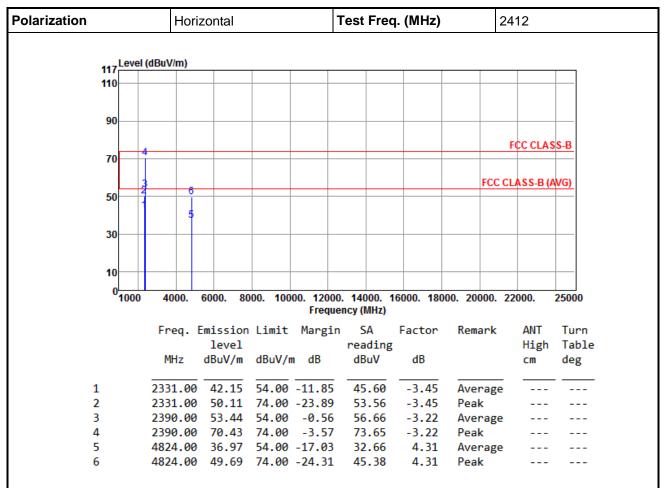
Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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

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



Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

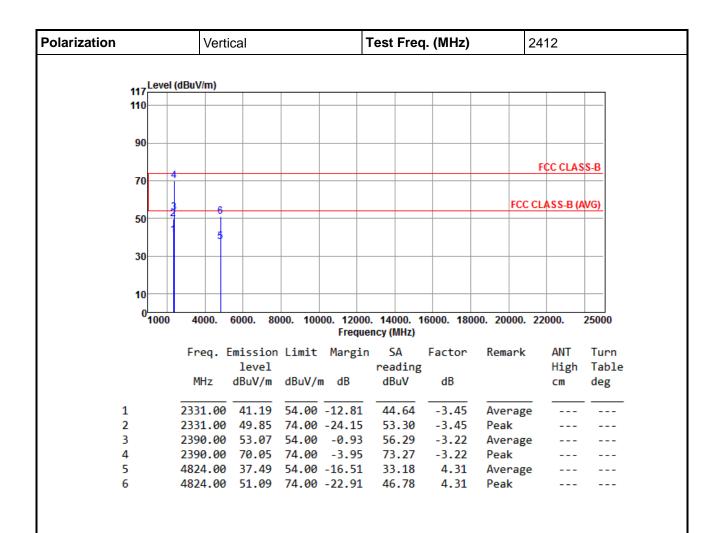
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Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Tel: 886-3-271-8666 Fax: 886-3-318-0155

Polarization Horizontal Test Freq. (MHz) 2437 117 Level (dBuV/m) 110 90 FCC CLAS S-B 70 FCC CLASS-B (AVG) 50 30 10 0<mark>1000</mark> 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Frequency (MHz) ANT Freq. Emission Limit Margin SA Factor Remark Turn Table level reading High dBuV/m dBuV/m dB dBuV MHz dB cmdeg 2357.00 43.30 54.00 -10.70 46.64 -3.34 Average 1 2 2357.00 51.55 74.00 -22.45 54.89 -3.34 Peak 54.00 -15.84 3 2390.00 38.16 41.38 -3.22 Average 74.00 -22.82 4 2390.00 51.18 54.40 -3.22 Peak 5 4874.00 37.38 54.00 -16.62 32.99 4.39 Average 6 4874.00 50.88 74.00 -23.12 46.49 4.39 Peak 7 7311.00 36.80 54.00 -17.20 27.88 8.92 Average 8 74.00 -24.19 7311.00 49.81 40.89 8.92 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

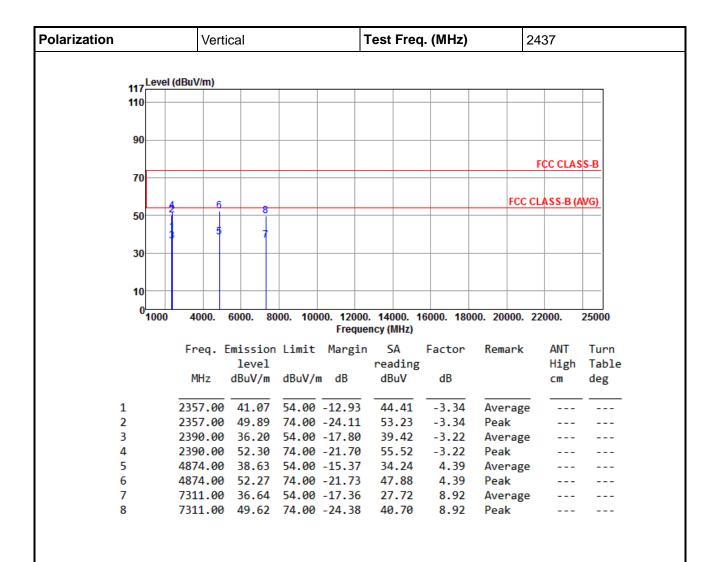
Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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5

6

7

8

4924.00

4924.00

7386.00

7386.00

36.72

50.21

36.46

50.12

54.00 -17.28

74.00 -23.79

54.00 -17.54

74.00 -23.88

32.24

45.73

27.48

41.14

4.48

4.48

8.98

8.98

Average

Average

Peak

Peak

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Polarization Horizontal Test Freq. (MHz) 2462 117 Level (dBuV/m) 110 90 FCC CLAS S-B 70 FCC CLASS-B (AVG) 50 30 10 0<mark>1000</mark> 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Frequency (MHz) ANT Freq. Emission Limit Margin SA Factor Remark Turn level reading High Table dBuV/m dBuV/m dB dBuV MHz dB cmdeg 2381.00 43.44 54.00 -10.56 46.70 -3.26 Average 1 2 2381.00 51.60 74.00 -22.40 54.86 -3.26 Peak 3 2483.50 53.87 54.00 -0.13 56.70 -2.83 Average 4 2483.50 71.54 74.00 -2.46 74.37 -2.83Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Polarization Vertical Test Freq. (MHz) 2462 117 Level (dBuV/m) 110 90 FCC CLAS S-B 70 FCC CLASS-B (AVG) 50 30 10 0<mark>1000</mark> 4000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Frequency (MHz) ANT Freq. Emission Limit Margin SA Factor Remark Turn Table level reading High dBuV/m dBuV/m dB dBuV MHz dB cmdeg 2381.00 41.61 54.00 -12.39 44.87 -3.26 Average 1 2 2381.00 49.92 74.00 -24.08 53.18 -3.26 Peak 3 2483.50 53.20 54.00 -0.80 56.03 -2.83 Average 4 2483.50 71.29 74.00 -2.71 74.12 -2.83Peak 5 4924.00 38.21 54.00 -15.79 33.73 4.48 Average 6 4924.00 51.81 74.00 -22.19 47.33 4.48 Peak 7 7386.00 36.30 54.00 -17.70 27.32 8.98 Average 8 50.89 7386.00 74.00 -23.11 41.91 8.98 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Horizontal

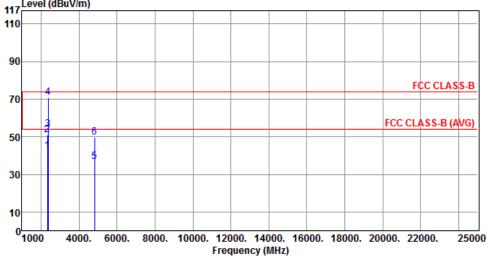
Polarization

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Tel: 886-3-271-8666 Fax: 886-3-318-0155

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

1 Clarization		110112011d1 10011104 (M112) 2-112								
Test Mode		AC power & Radio link								
	Lovel (dD)	ı\//m\								
117 110	Level (dBı	IV/m)								
110										
90										

Test Freg (MHz)



	Freq. MHz	Emission level dBuV/m		Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2331.00	42.15	54.00	-11.85	45.60	-3.45	Average		
2	2331.00				54.21	-3.45	Peak		
3	2390.00	53.84	54.00	-0.16	57.06	-3.22	Average		
4	2390.00	71.00	74.00	-3.00	74.22	-3.22	Peak		
5	4824.00	36.59	54.00	-17.41	32.28	4.31	Average		
6	4824.00	49.48	74.00	-24.52	45.17	4.31	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

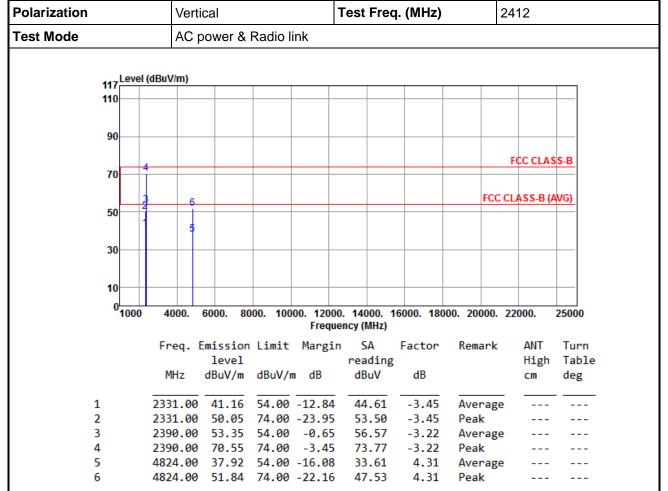
Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

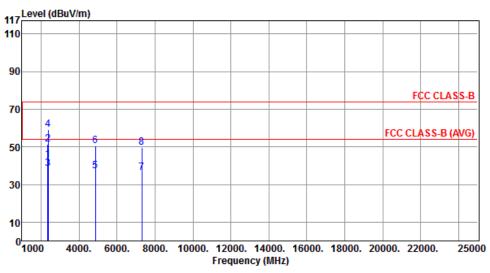
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Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



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Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	AC power & Radio link		



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2357.00	43.04	54.00	-10.96	46.38	-3.34	Average		
2	2357.00	51.40	74.00	-22.60	54.74	-3.34	Peak		
3	2390.00	38.26	54.00	-15.74	41.48	-3.22	Average		
4	2390.00	59.16	74.00	-14.84	62.38	-3.22	Peak		
5	4874.00	37.14	54.00	-16.86	32.75	4.39	Average		
6	4874.00	50.67	74.00	-23.33	46.28	4.39	Peak		
7	7311.00	36.26	54.00	-17.74	27.34	8.92	Average		
8	7311.00	49.68	74.00	-24.32	40.76	8.92	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

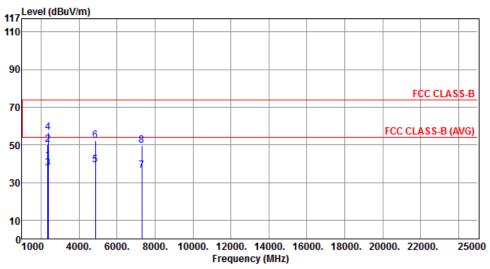
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	AC power & Radio link		



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2357.00	41.65	54.00	-12.35	44.99	-3.34	Average		
2	2357.00	50.12	74.00	-23.88	53.46	-3.34	Peak		
3	2390.00	37.61	54.00	-16.39	40.83	-3.22	Average		
4	2390.00	56.39	74.00	-17.61	59.61	-3.22	Peak		
5	4874.00	39.17	54.00	-14.83	34.78	4.39	Average		
6	4874.00	52.32	74.00	-21.68	47.93	4.39	Peak		
7	7311.00	36.41	54.00	-17.59	27.49	8.92	Average		
8	7311.00	49.73	74.00	-24.27	40.81	8.92	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

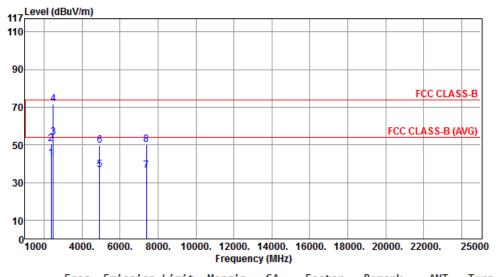
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Polarization	Horizontal	Test Freq. (MHz)	2462
Test Mode	AC power & Radio link		



				Troque	icy (iiiiiz)				
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2381.00	42.64	54.00	-11.36	45.90	-3.26	Average		
2	2381.00	50.55	74.00	-23.45	53.81	-3.26	Peak		
3	2483.50	53.88	54.00	-0.12	56.71	-2.83	Average		
4	2483.50	71.68	74.00	-2.32	74.51	-2.83	Peak		
5	4924.00	36.59	54.00	-17.41	32.11	4.48	Average		
6	4924.00	49.86	74.00	-24.14	45.38	4.48	Peak		
7	7386.00	36.27	54.00	-17.73	27.29	8.98	Average		
8	7386.00	50.01	74.00	-23.99	41.03	8.98	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

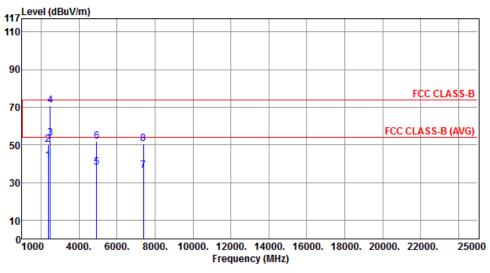
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Polarization	Vertical	Test Freq. (MHz)	2462
Test Mode	AC power & Radio link		



				_					
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2381.00	41.57	54.00	-12.43	44.83	-3.26	Average		
2	2381.00	49.95	74.00	-24.05	53.21	-3.26	Peak		
3	2483.50	53.33	54.00	-0.67	56.16	-2.83	Average		
4	2483.50	70.99	74.00	-3.01	73.82	-2.83	Peak		
5	4924.00	38.03	54.00	-15.97	33.55	4.48	Average		
6	4924.00	51.64	74.00	-22.36	47.16	4.48	Peak		
7	7386.00	36.12	54.00	-17.88	27.14	8.98	Average		
8	7386.00	50.46	74.00	-23.54	41.48	8.98	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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

Horizontal Test Freq. (MHz) 2412								
AC power & Radio link	AC power & Radio link							
uV/m)								
		FCC CLASS-B						
6	FC	C CLASS-B (AVG)						
5								
	AC power & Radio link	AC power & Radio link						

	Freq. MHz	Emission level dBuV/m		Ŭ	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2341.00	41.97	54.00	-12.03	45.38	-3.41	Average		
2	2341.00	52.07	74.00	-21.93	55.48	-3.41	Peak		
3	2390.00	53.87	54.00	-0.13	57.09	-3.22	Average		
4	2390.00	67.00	74.00	-7.00	70.22	-3.22	Peak		
5	4844.00	33.37	54.00	-20.63	29.03	4.34	Average		
6	4844.00	45.90	74.00	-28.10	41.56	4.34	Peak		

Frequency (MHz)

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

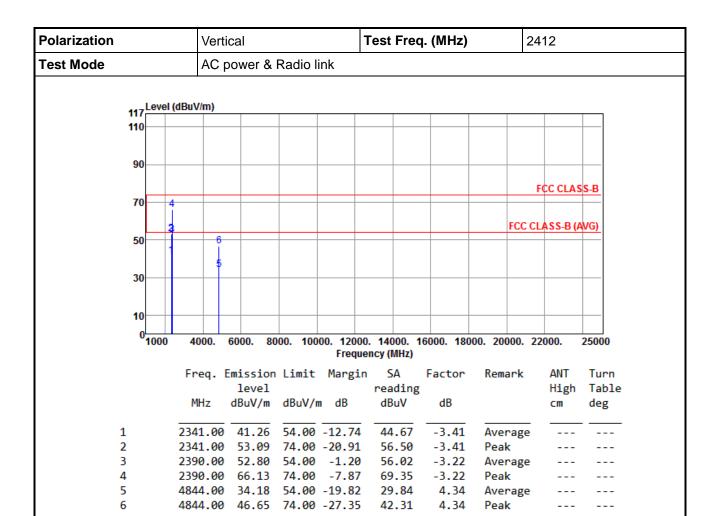
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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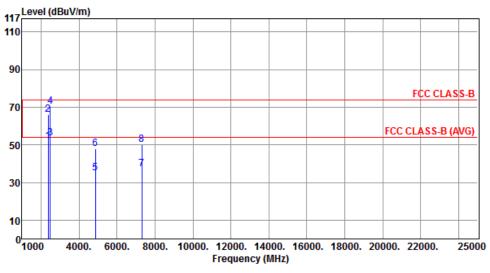
Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



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 Polarization
 Horizontal
 Test Freq. (MHz)
 2437

 Test Mode
 AC power & Radio link



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	51.82	54.00	-2.18	55.04	-3.22	Average		
2	2390.00	66.26	74.00	-7.74	69.48	-3.22	Peak		
3	2483.50	53.45	54.00	-0.55	56.28	-2.83	Average		
4	2483.50	70.53	74.00	-3.47	73.36	-2.83	Peak		
5	4874.00	35.07	54.00	-18.93	30.68	4.39	Average		
6	4874.00	47.75	74.00	-26.25	43.36	4.39	Peak		
7	7311.00	37.24	54.00	-16.76	28.32	8.92	Average		
8	7311.00	50.05	74.00	-23.95	41.13	8.92	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

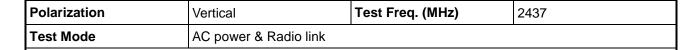
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

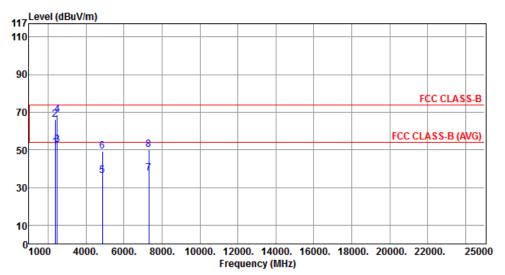
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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	51.28	54.00	-2.72	54.50	-3.22	Average		
2	2390.00	65.87	74.00	-8.13	69.09	-3.22	Peak		
3	2483.50	52.71	54.00	-1.29	55.54	-2.83	Average		
4	2483.50	68.77	74.00	-5.23	71.60	-2.83	Peak		
5	4874.00	36.40	54.00	-17.60	32.01	4.39	Average		
6	4874.00	49.32	74.00	-24.68	44.93	4.39	Peak		
7	7311.00	37.64	54.00	-16.36	28.72	8.92	Average		
8	7311.00	50.21	74.00	-23.79	41.29	8.92	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

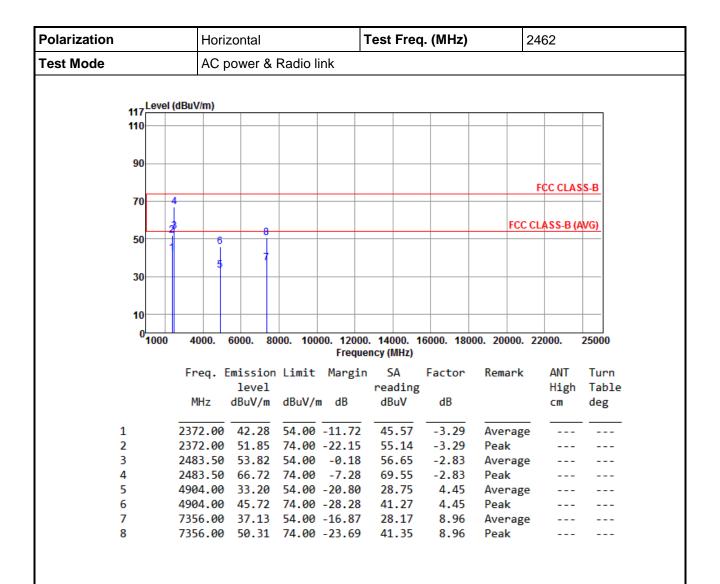
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

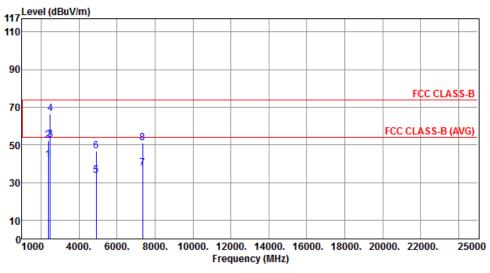
Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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PolarizationVerticalTest Freq. (MHz)2462Test ModeAC power & Radio link



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2372.00	41.72	54.00	-12.28	45.01	-3.29	Average		
2	2372.00	52.22	74.00	-21.78	55.51	-3.29	Peak		
3	2483.50	52.60	54.00	-1.40	55.43	-2.83	Average		
4	2483.50	66.38	74.00	-7.62	69.21	-2.83	Peak		
5	4904.00	33.80	54.00	-20.20	29.35	4.45	Average		
6	4904.00	46.62	74.00	-27.38	42.17	4.45	Peak		
7	7356.00	37.37	54.00	-16.63	28.41	8.96	Average		
8	7356.00	50.76	74.00	-23.24	41.80	8.96	Peak		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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3.6 Emissions in non-restricted frequency bands

3.6.1 Emissions in non-restricted frequency bands limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

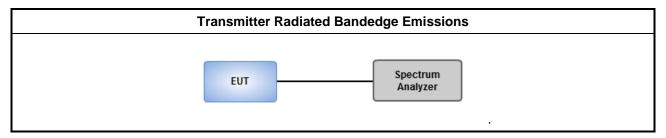
Reference level measurement

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

Emission level measurement

- Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 26.5GHz
- 4. Use the peak marker function to determine the maximum amplitude level

3.6.4 Test Setup



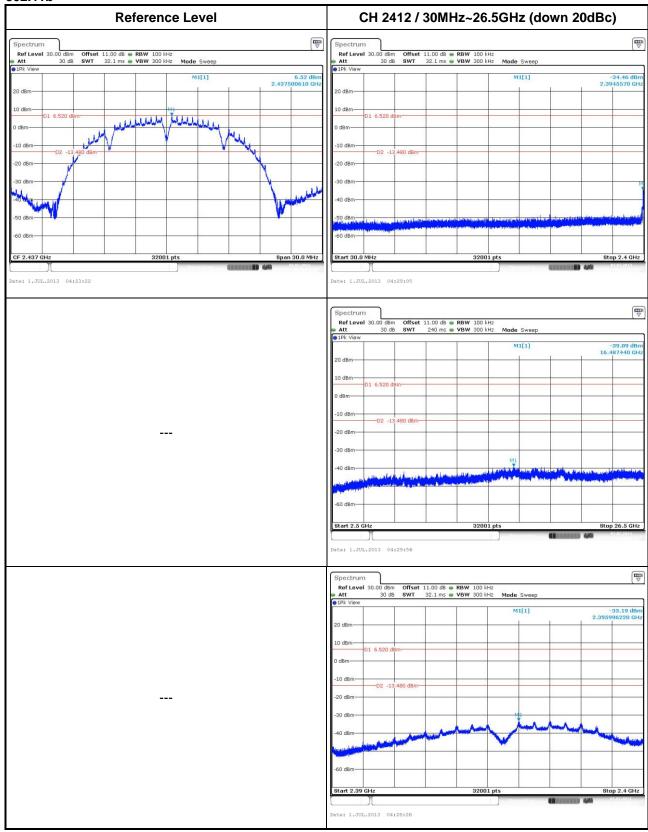
3.6.5 Test Result of Emissions in non-restricted frequency bands

This test item is performed on each TX output individually without summing or adding 10 $log(N_{ANT})$ since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

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3.6.6 Test Result of Emissions in non-restricted frequency bands

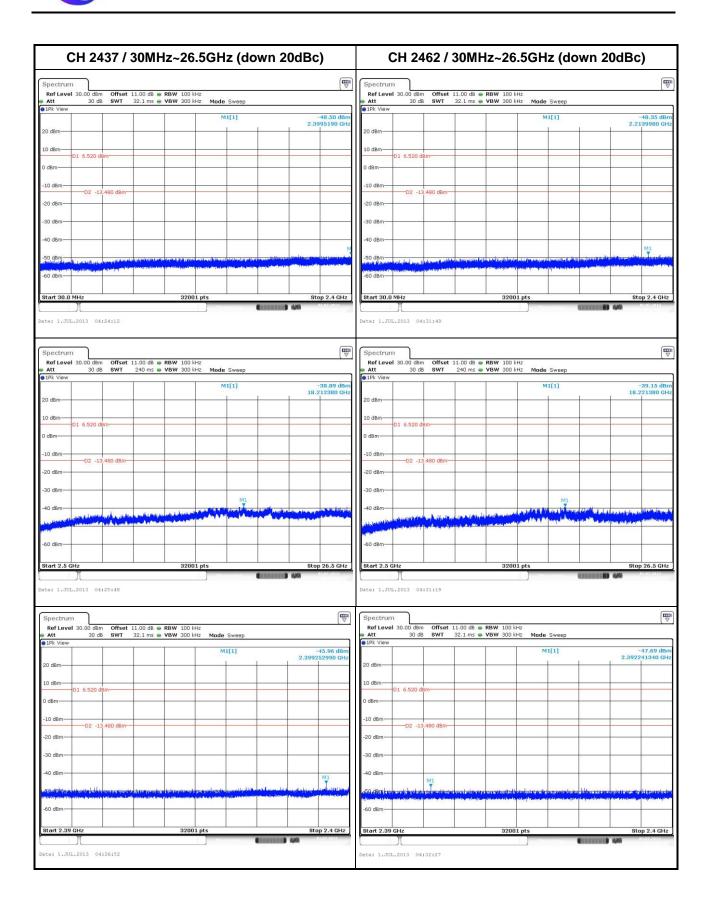
802.11b



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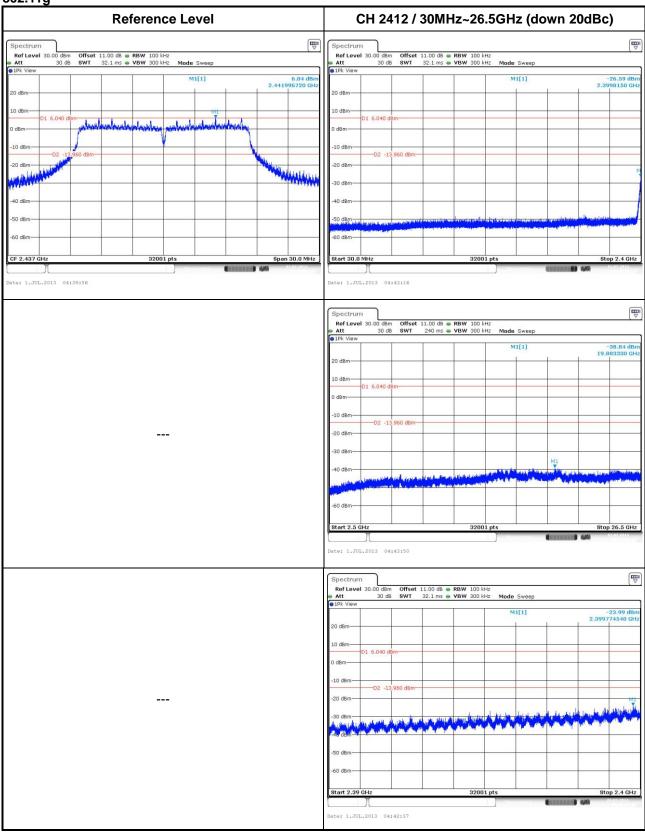
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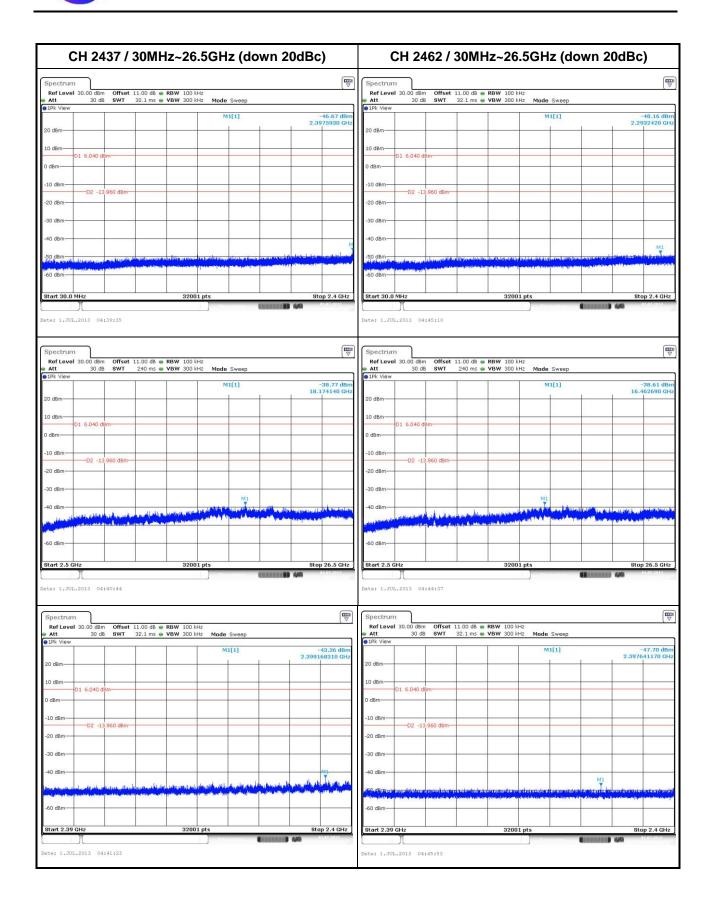




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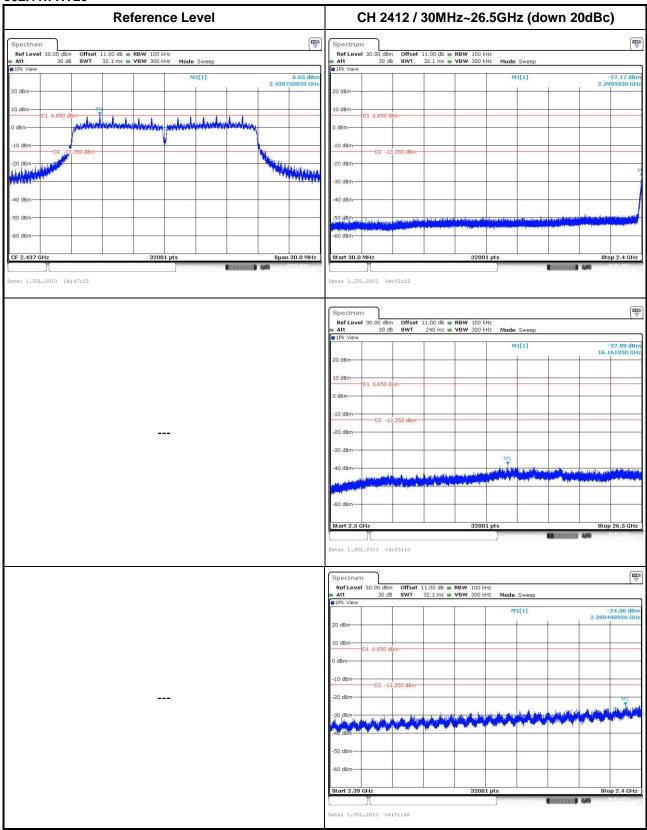


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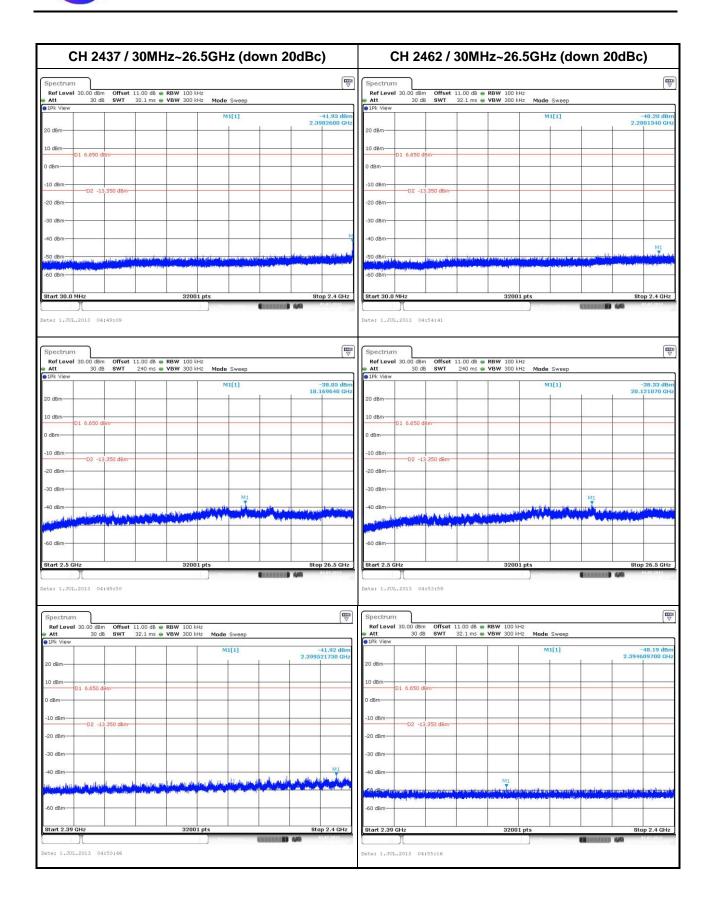
802.11n HT20



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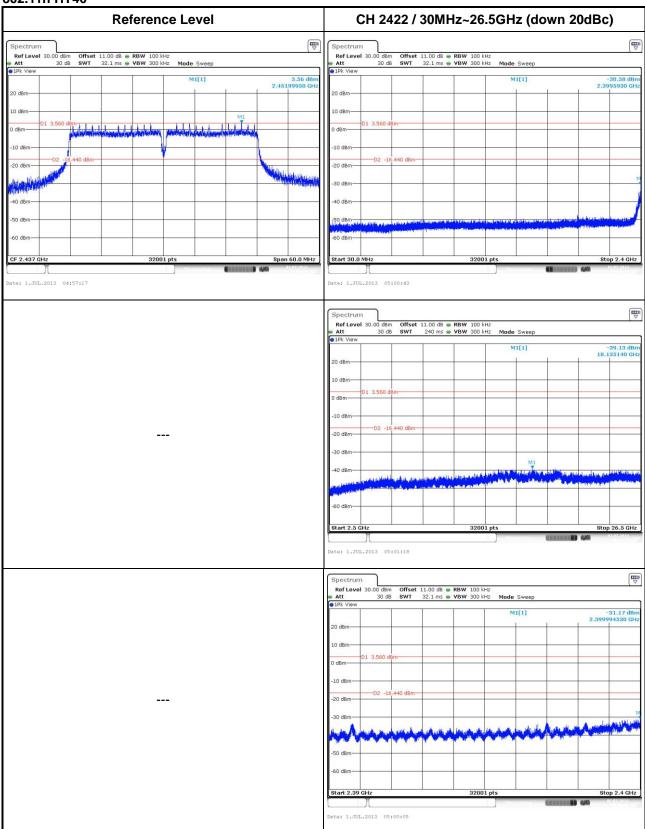


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802.11n HT40

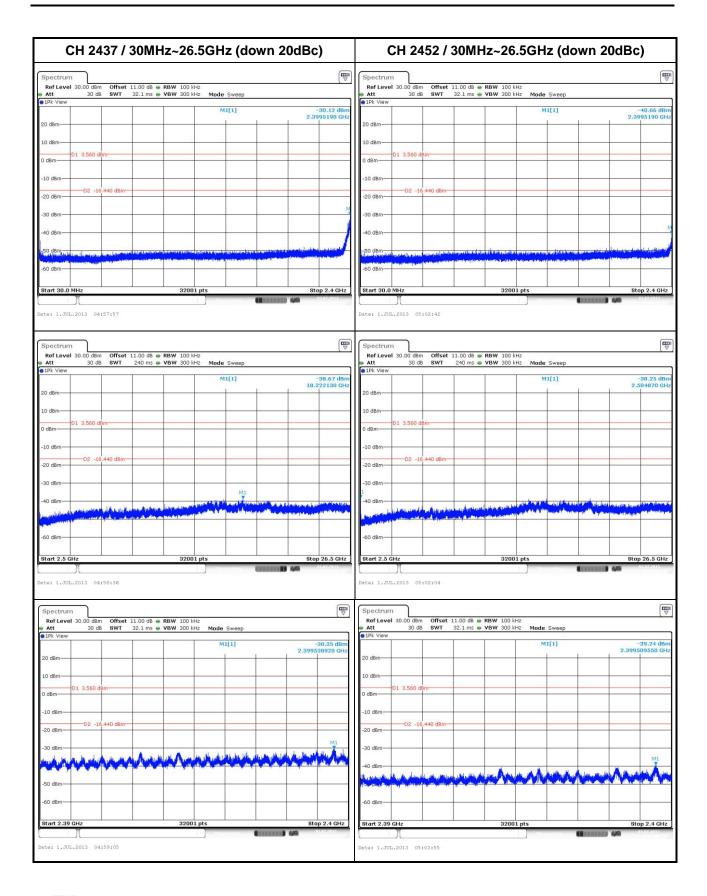


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