



EMC TEST REPORT

Report No. : TS11050007-EME

Model No. : WiFiHU-a, WiFiHU-a-1-NE,

WiFiHU-c, WiFiHU-c-1-NE

Issued Date: Jun. 08, 2011

Applicant: Radicom Research Inc.

2148 Bering Dr., San Jose, CA. 95131, USA

Test Method/ CFR 47 FCC Part 15.247 & ANSI C63.4 2003

Standard:

Test By: Intertek Testing Services Taiwan Ltd.

No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan

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These measurements were taken by: Sign on File

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The test report was reviewed by:

Name Jimmy Yang
Title Engineer



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1. Summary of Test Data

Test/Requirement Description	Applicable Rule	Result
Minimum 6 dB Bandwidth	15.247(a)(2)	Pass
Maximum Output Power	15.247(b)	Pass
Power Spectral Density	15.247(e)	Pass
RF Antenna Conducted Spurious	15.247(d)	Pass
Radiated Spurious Emission	15.247(d), 15.205, 15.209	Pass
Emission on the Band Edge	15.247(d)	Pass
AC Power Line Conducted Emission	15.207	Pass



FCC ID.: K7T-WIFIHU-A Report No.: TS11050007-EME

2. General Information

Identification of the EUT

Product: USB WiFi Module

Model No.: WiFiHU-a-1-NE, WiFiHU-c-1-NE

FCC ID.: K7T-WIFIHU-A

Frequency Range: 1. 2412 MHz ~ 2462 MHz for 802.11b, 802.11g, 802.11n HT20

2. 2422 MHz ~ 2452 MHz for 802.11n HT40

Channel Number: 1. 11 channels for 2412 MHz ~ 2462 MHz

2. 7 channels for 2422 MHz ~ 2452 MHz

Rated Power: DC 5 V

Power Cord: N/A

Data Cable: USB shielded cable 0.2 meter × 1

Sample Received: May 02, 2011

Test Date(s): May 04, 2011 ~ Jun 03, 2011

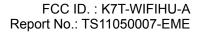
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program.

Note 2: When determining the test conclusion, the Measurement

Uncertainty of test has been considered.





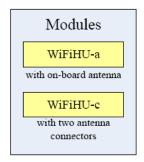
Description of EUT

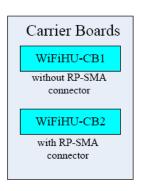
The EUT is an USB WiFi Module, and was defined as information technology equipment.

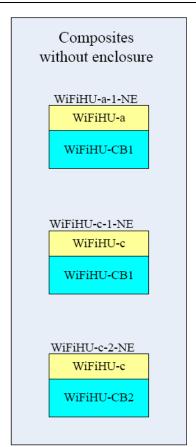
For more detail features, please refer to User's manual as file name "Installation guide.pdf"

The customer confirmed the models listed as below were series model to model WiFiHU-a-1-NE, WiFiHU-c-1-NE (EUT), the difference between main model and series model are listed as below.

Model Number	Different
WiFiHU-a-1-NE	Carrier Boards (without RP-SMA connector)
VVIFINU-a-I-INE	Modules (with on-board antenna)
WiFiHU-c-1-NE	Carrier Boards (without RP-SMA connector)
VVIFINO-C-1-INE	Modules (with two antenna connectors)
WiFiHU-a	Modules (with on- board antenna)
WiFiHU-c	Modules (with two antenna connectors)









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Antenna description

(1) Antenna 1

The EUT uses a permanently connected antenna.

Antenna Gain : 0 dBi

Antenna Type : Chip antenna

Connector Type : N/A

(2) Antenna 2

The antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain : 2 dBi

Antenna Type : Dipole antenna

Connector Type : IPX

Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Description of Data Cable
Notebook PC	DELL	Latitude D610	2YWZK1S	USB shielded cable 0.1
		Latitude Do 10	ZTVVZKTO	meter × 1
Modem	LEMEL	MD-56KVT-100	00V230A00078422	N/A
Printer	HP	DeskJet 400	TH86I1K30S	N/A
Mouse	IBM	MO09BO	23-021287	N/A



Operation mode

The EUT was supplied with 5 Vdc from Notebook PC (Test voltage: 120Vac, 60Hz) and it was run in TX / RX mode that was controlled by "MP819xVC" program.

Plug the EUT into Notebook PC via USB interface, then turn on the Notebook PC power and run the test program "MP819xVC" under windows OS, which provide by manufacturer.

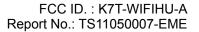
With individual verifying, the maximum output power was found out 1 Mbps data rate for 802.11b mode and 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n HT 20 mode and 13 Mbps data rate for 802.11n HT 40 mode. The final tests were executed under these conditions recorded in this report individually. Please refer the details below:

Chain 0: 802.11b channel 6		
Data rate (Mbps)	PK(dBm)	
1	16.09	
2	15.92	
5.5	15.87	
11	15.81	

Chain 0: 802.11n HT20 channel 6		
Data rate (Mbps)	PK(dBm)	
6.5	16.87	
13	16.76	
19.5	16.69	
26	16.61	
39	16.54	
52	16.44	
58.5	16.39	
65	16.37	

Chain 0: 802.11g channel 6		
Data rate (Mbps)	PK(dBm)	
6	16.97	
9	16.86	
12	16.79	
18	16.71	
24	16.69	
36	16.64	
48	16.54	
54	16.49	

Chain 0: 802.11n HT40 channel 6			
Data rate (Mbps)	PK(dBm)		
13.5	16.26		
27	16.18		
40.5	16.10		
54	15.94		
81	15.87		
108	15.79		
121.5	15.71		
135	15.63		



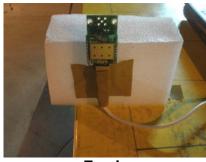


For the signal from USB WiFi Module is maximized through rotation and placement in the three orthogonal axes.

EUT : WiFiHU-a-1-NE







X axis

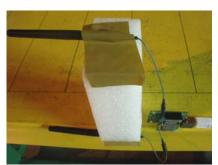
Y axis

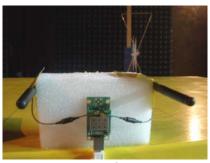
Z axis

After verifying three axes, we found the maximum electromagnetic field was occurred at Y axis. The final test data was executed under this configuration.

EUT : WiFiHU-c-1-NE







X axis

Y axis

Z axis

After verifying three axes, we found the maximum electromagnetic field was occurred at X axis. The final test data was executed under this configuration.

The EUT configuration please refer to the "Spurious set-up photo.pdf".



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3. Maximum 6 dB Bandwidth

Name of Test	Maximum 6 dB Bandwidth	
Base Standard	FCC 15.247 (a)(2)	

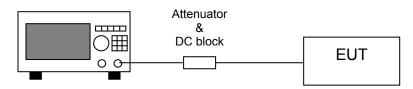
Test Result: Complies

Measurement Data: See Table & plots below

Method of Measurement:

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

Test Diagram:



Spectrum Analyzer

Note: The EUT was tested while in a continuous transmit mode and the worst case data rates are 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n HT20 mode and 13 Mbps data rate for 802.11n HT40 mode. The EUT was tuned to a low, middle and high channel.

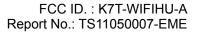




Table 1 Maximum 6 dB Bandwidth

Mode	Channel	Frequency	Bandwidth (MHz)	Limit	Pass/Fail
Mode	Charmer	(MHz)	DAC0	(MHz)	rass/raii
	1	2412	9.315	0.5	Pass
802.11b	6	2437	8.505	0.5	Pass
	11	2462	9.315	0.5	Pass
	1	2412	16.605	0.5	Pass
802.11g	6	2437	16.680	0.5	Pass
	11	2462	16.605	0.5	Pass
802.11n	1	2412	17.895	0.5	Pass
HT20	6	2437	17.970	0.5	Pass
11120	11	2462	17.895	0.5	Pass
802.11n	3	2422	36.570	0.5	Pass
HT40	6	2437	36.570	0.5	Pass
11140	9	2452	36.735	0.5	Pass



Chain 0: 6 dB Bandwidth @ 802.11b mode channel 1

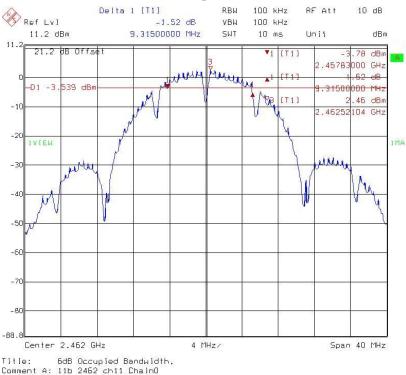


Chain 0: 6 dB Bandwidth @ 802.11b mode channel 6



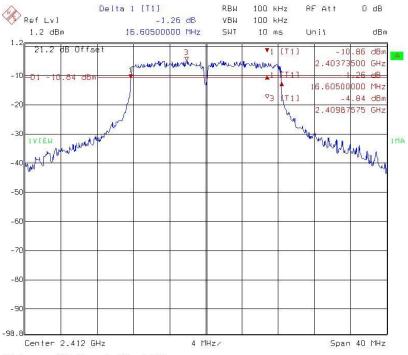


Chain 0: 6 dB Bandwidth @ 802.11b mode channel 11



Title: 6dB Occupied Bandwidth, Comment A: 11b 2462 ch11 ChainO Date: 23.MAY 2011 15:29:43

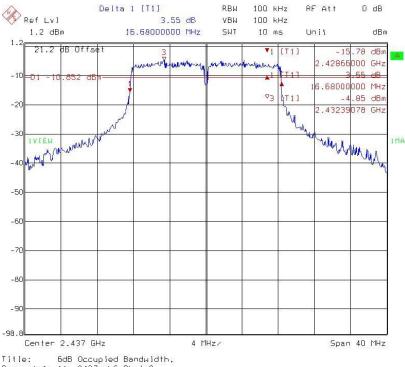
Chain 0: 6 dB Bandwidth @ 802.11g mode channel 1



Title: 6dB Occupied Bandwidth, Comment A: 11g 2412 ch1 ChainO Date: 23.MAY 2011 15:34:00

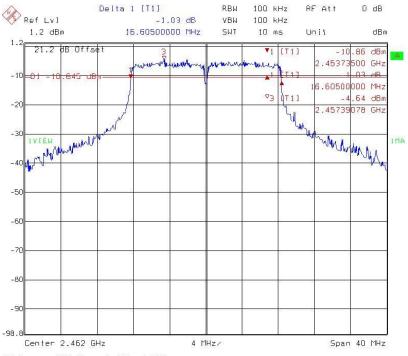


Chain 0: 6 dB Bandwidth @ 802.11g mode channel 6



Title: 6dB Occupied Bandwidth, Comment A: 11g 2437 ch6 ChainO Date: 23.MAY 2011 15:36:49

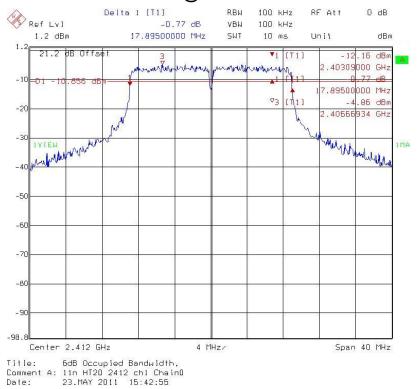
Chain 0: 6 dB Bandwidth @ 802.11g mode channel 11



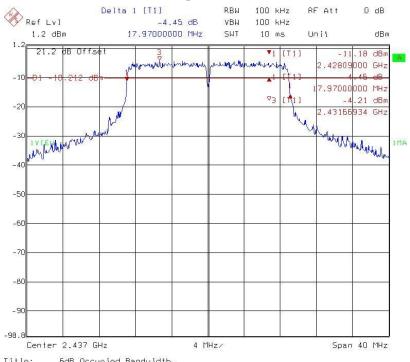
Title: 6dB Occupied Bandwidth, Comment A: 11g 2462 ch11 ChainO Date: 23.MAY 2011 15:39:31



Chain 0: 6 dB Bandwidth @ 802.11n HT20 mode channel 1

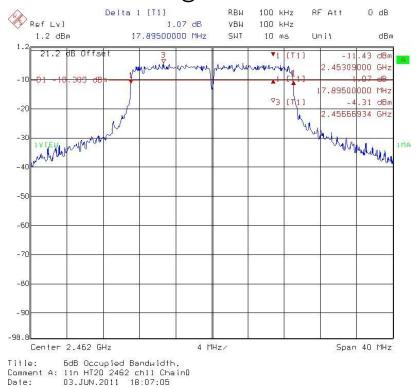


Chain 0: 6 dB Bandwidth @ 802.11n HT20 mode channel 6

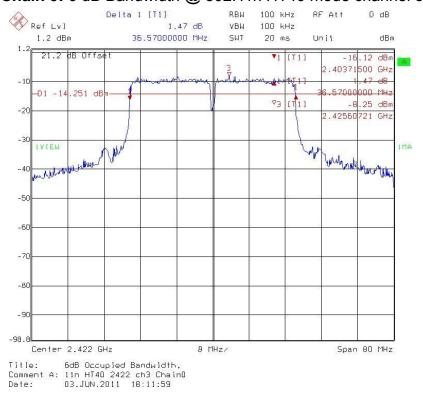




Chain 0: 6 dB Bandwidth @ 802.11n HT20 mode channel 11

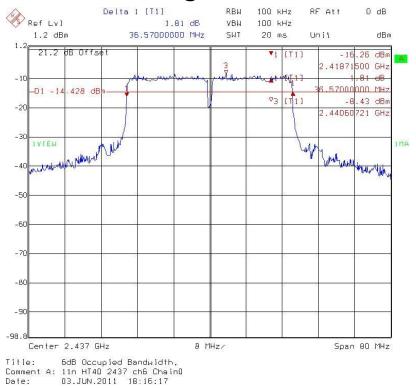


Chain 0: 6 dB Bandwidth @ 802.11n HT40 mode channel 3

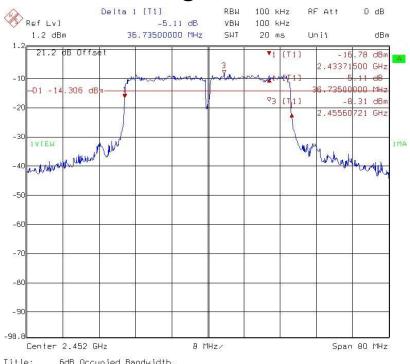


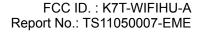


Chain 0: 6 dB Bandwidth @ 802.11n HT40 mode channel 6



Chain 0: 6 dB Bandwidth @ 802.11n HT40 mode channel 9







4. 99 % Occupied Bandwidth

Name of Test	99 % Occupied Bandwidth	
Base Standard	None; for reporting purposes only	

Test Result: Complies

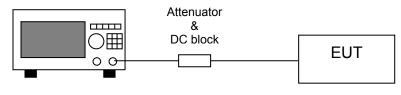
Measurement Data: See Table & plots below

Method of Measurement:

Reference FCC document: KDB558074

A portion of the transmitted signal is coupled to a Spectrum Analyzer with a resolution bandwidth of at least 1 % of the bandwidth of the transmitted signal. The resolution bandwidth is chosen so as not to reduce the peak level of the measured waveform. The appropriate bandwidth mask is applied to the output waveform to verify compliance.

Test Diagram:



Spectrum Analyzer

Note: The EUT was tested while in a continuous transmit mode and the worst case data rates are 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n HT20 mode and 13 Mbps data rate for 802.11n HT40 mode. The EUT was tuned to a low, middle and high channel.

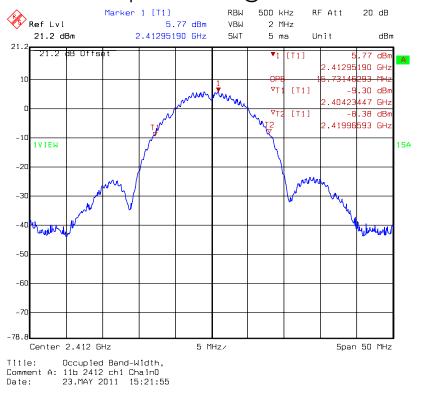


Table 2 99 % Occupied Bandwidth

Mode	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
	1	2412	15.73
802.11b	6	2437	15.73
	11	2462	15.73
	1	2412	17.64
802.11g	6	2437	17.64
	11	2462	17.64
802.11n	1	2412	18.64
HT20	6	2437	18.94
11120	11	2462	18.64
802.11n HT40	3	2422	36.67
	6	2437	36.67
11140	9	2452	37.07



Chain 0: 99 % Occupied Bandwidth @ 802.11b mode channel 1

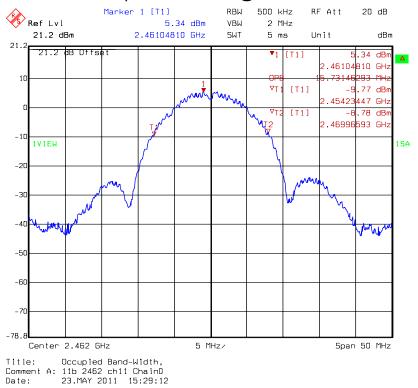


Chain 0: 99 % Occupied Bandwidth @ 802.11b mode channel 6

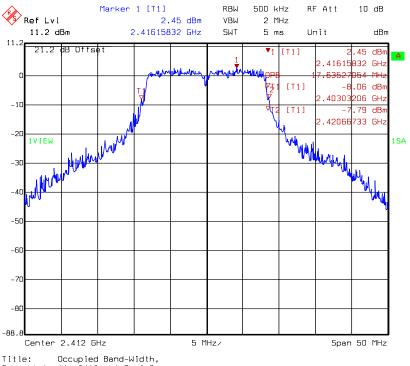




Chain 0: 99 % Occupied Bandwidth @ 802.11b mode channel 11

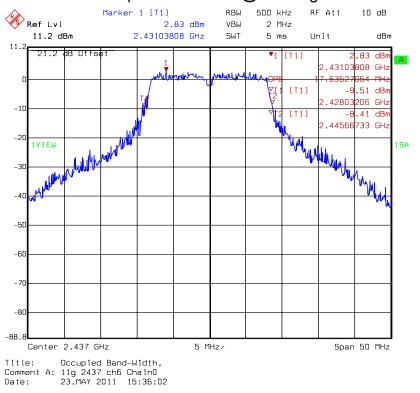


Chain 0: 99 % Occupied Bandwidth @ 802.11g mode channel 1

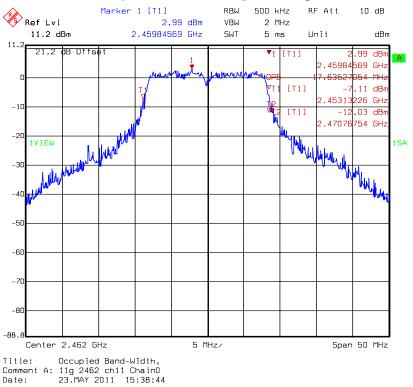




Chain 0: 99 % Occupied Bandwidth @ 802.11g mode channel 6

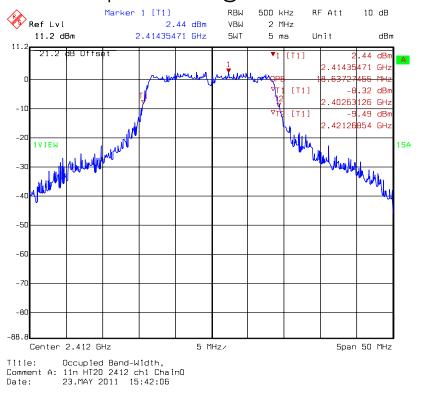


Chain 0: 99 % Occupied Bandwidth @ 802.11g mode channel 11

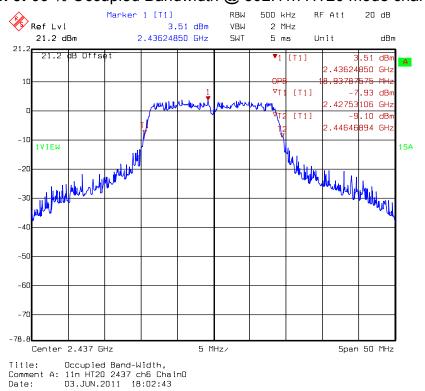




Chain 0: 99 % Occupied Bandwidth @ 802.11n HT20 mode channel 1

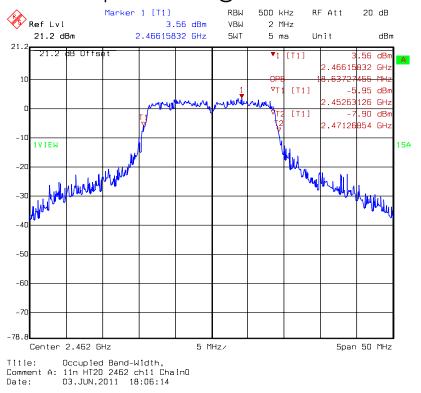


Chain 0: 99 % Occupied Bandwidth @ 802.11n HT20 mode channel 6

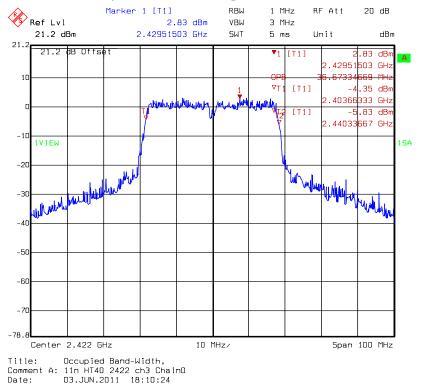




Chain 0: 99 % Occupied Bandwidth @ 802.11n HT20 mode channel 11

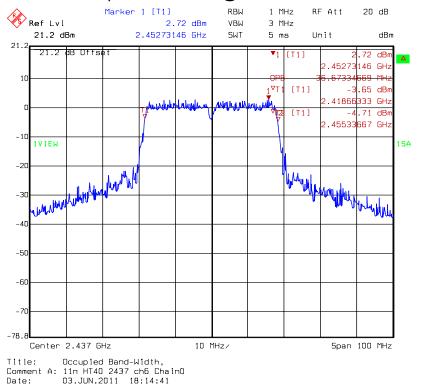


Chain 0:99 % Occupied Bandwidth @ 802.11n HT40 mode channel 3

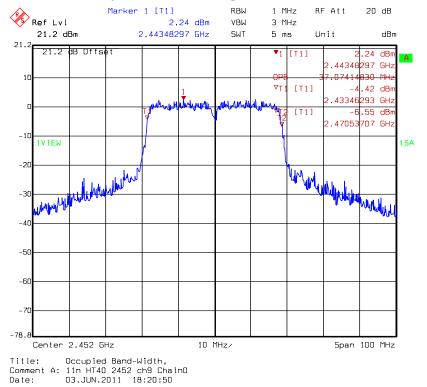




Chain 0: 99 % Occupied Bandwidth @ 802.11n HT40 mode channel 6



Chain 0: 99 % Occupied Bandwidth @ 802.11n HT40 mode channel 9





FCC ID.: K7T-WIFIHU-A Report No.: TS11050007-EME

5. Maximum Output Power

Name of Test	Maximum output power	
Base Standard	FCC 15.247(b)	

Measurement Uncertainty: ±0.392 dB (k=2)

Test Result: Complies

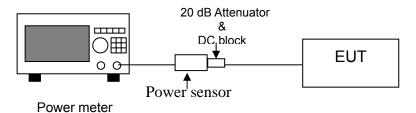
Measurement Data: See Table below

Method of Measurement:

Reference FCC document: KDB558074

The power output was measured on the EUT using a 50 ohm SMA Cable connected to peak power meter via power sensor. Connect 20 dB attenuator and DC block at the input port of the power sensor. Measure conducted transmit power of at each antenna port ,besides another ports were terminated by 50 ohm and sum these power in linear power units,Power output was measured with the maximum rated input level.

Test Diagram:



Note 1: §15.247 (b) (4) Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note 2: §15.247 (b) (4) (ii) Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

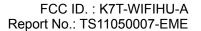
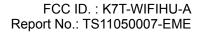




Table 3. Maximum output power

EUT : WiFiHU-a-1-NE

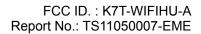
Mode	Channel	Frequency (MHz)	Output Power (dBm) PK DAC0	Total Power (mw)	Limit (dBm)	Margin (dB)
	1	2412	16.33	42.95	30	-13.67
802.11b	6	2437	16.24	42.07	30	-13.76
	11	2462	14.01	25.18	30	-15.99
	1	2412	16.94	49.43	30	-13.06
802.11g	6	2437	16.88	48.75	30	-13.12
	11	2462	14.24	26.55	30	-15.76
802.11n	1	2412	17.01	50.23	30	-12.99
HT20	6	2437	16.91	49.09	30	-13.09
	11	2462	15.54	35.81	30	-14.46
802.11n HT40	3	2422	16.26	42.27	30	-13.74
	6	2437	16.45	44.16	30	-13.55
	9	2452	14.05	25.41	30	-15.95





EUT : WiFiHU-c-1-NE

Mode	Channel	Frequency (MHz)	Output Power (dBm) PK DAC0	Total Power (mw) PK	Limit (dBm)	Margin (dB)
	1	2412	10.83	12.11	30	-19.17
802.11b	6	2437	10.74	11.86	30	-19.26
	11	2462	10.61	11.51	30	-19.39
802.11g	1	2412	14.84	30.48	30	-15.16
	6	2437	14.78	30.06	30	-15.22
	11	2462	14.69	29.44	30	-15.31
802.11n	1	2412	14.91	30.97	30	-15.09
HT20	6	2437	14.81	30.27	30	-15.19
П120	11	2462	14.74	29.79	30	-15.26
802.11n HT40	3	2422	14.46	27.93	30	-15.54
	6	2437	14.35	27.23	30	-15.65
	9	2452	14.25	26.61	30	-15.75





6. Power Spectral Density

Name of Test	Power Spectral Density	
Base Standard	FCC 15.247(e)	

Test Result: Complies

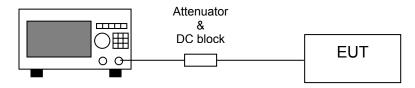
Measurement Data: See Table & plots below

Method of Measurement:

Reference FCC document: KDB558074

The power spectrum density was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer. Locate and zoom in on emission peak(s) within the passband. Set RBW = 3 kHz, VBW >RBW, sweep= 500s. The peak level measured must be no greater than + 8 dBm. Power spectrum density was read directly and cable loss (1 dB)/external attenuator (20 dB) correction was added to the reading to obtain power at the EUT antenna terminals.

Test Diagram:



Spectrum Analyzer





Table 4. Power Spectral Density

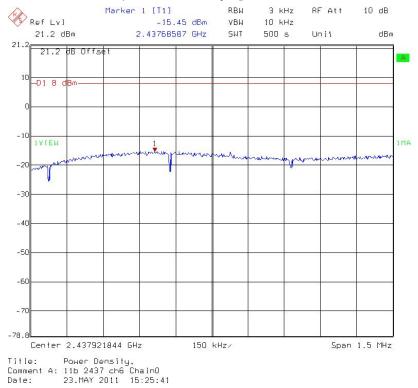
Mode	Channel	Frequency (MHz)	PSD(dBm) DAC0	Total PSD (mW)	Limit (dBm)	Margin (dB)
	1	2412	-15.29	0.03	8	-23.29
802.11b	6	2437	-15.45	0.03	8	-23.45
	11	2462	-15.69	0.03	8	-23.69
	1	2412	-19.00	0.01	8	-27.00
802.11g	6	2437	-19.19	0.01	8	-27.19
	11	2462	-9.11	0.12	8	-17.11
000 115	1	2412	-17.87	0.02	8	-25.87
802.11n HT20	6	2437	-16.30	0.02	8	-24.30
	11	2462	-17.11	0.02	8	-25.11
802.11n - HT40 -	3	2422	-20.00	0.01	8	-28.00
	6	2437	-21.48	0.01	8	-29.48
	9	2452	-21.19	0.01	8	-29.19



Chain 0: Power Spectral Density @ 802.11b mode channel 1

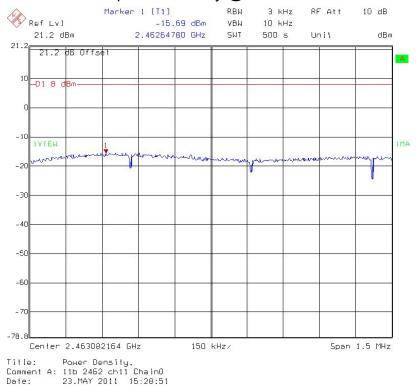


Chain 0: Power Spectral Density @ 802.11b mode channel 6

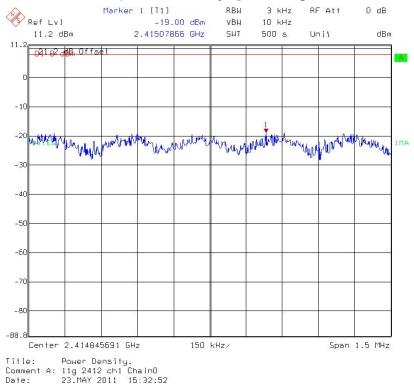




Chain 0: Power Spectral Density @ 802.11b mode channel 11

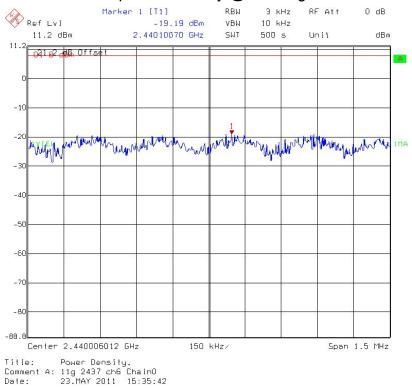


Chain 0: Power Spectral Density @ 802.11g mode channel 1

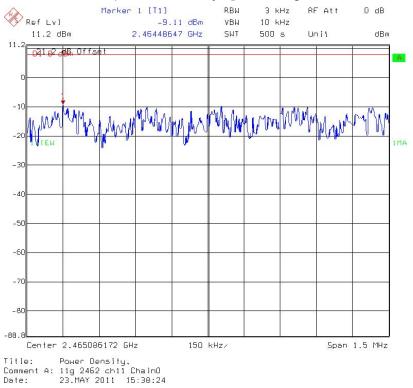




Chain 0: Power Spectral Density @ 802.11g mode channel 6

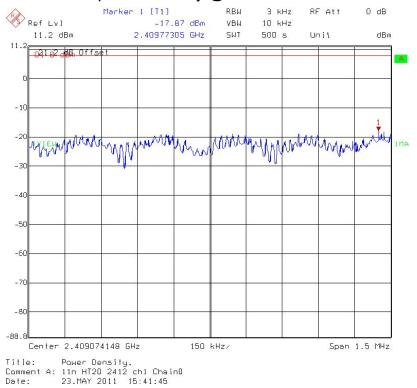


Chain 0: Power Spectral Density @ 802.11g mode channel 11

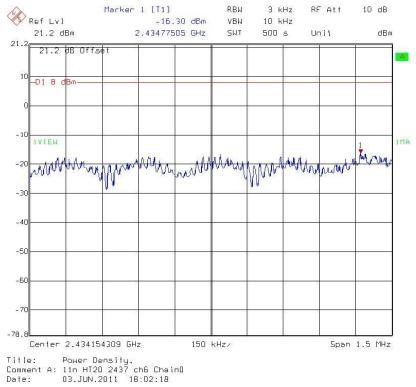


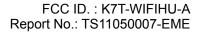


Chain 0: Power Spectral Density @ 802.11n HT20 mode channel 1



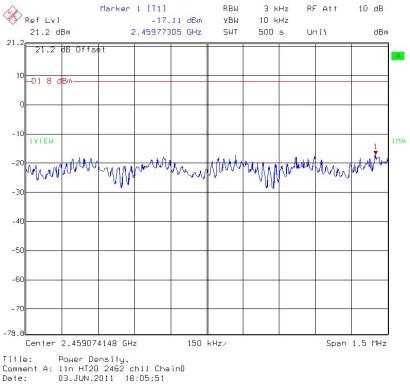
Chain 0: Power Spectral Density @ 802.11n HT20 mode channel 6



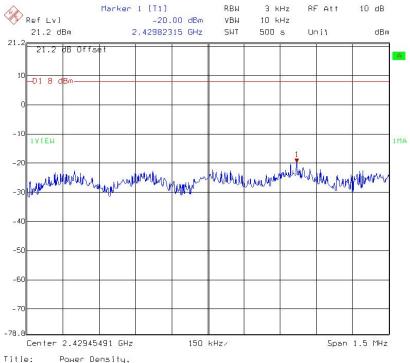




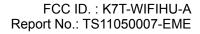
Chain 0: Power Spectral Density @ 802.11n HT20 mode channel 11



Chain 0: Power Spectral Density @ 802.11n HT40 mode channel 3

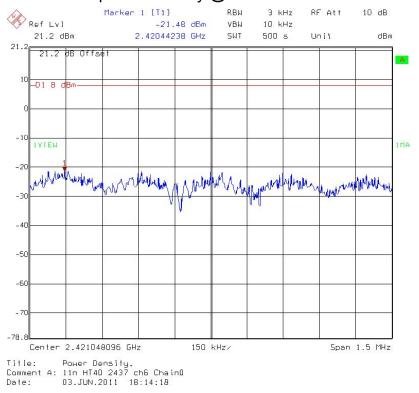


Title: Power Density, Comment A: 11n HT40 2422 ch3 ChainO Date: 03.JUN.2011 18:10:00

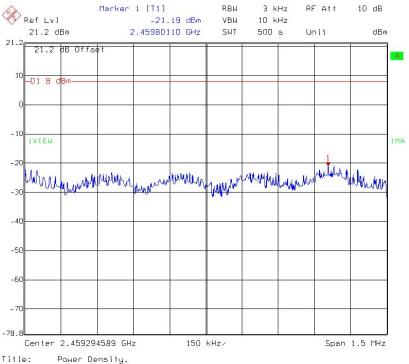


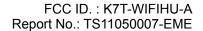


Chain 0: Power Spectral Density @ 802.11n HT40 mode channel 6



Chain 0: Power Spectral Density @ 802.11n HT40 mode channel 9







7. RF Antenna conducted Spurious

Name of Test	RF Antenna Conducted Spurious	
Base Standard	FCC 15.247(d)	

Test Result: Complies

Measurement Data: See plots below

Method of Measurement:

Reference FCC document: KDB558074

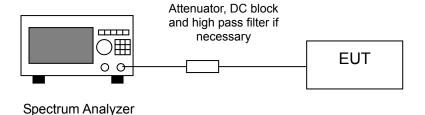
The measurements were performed from 30 MHz to 25 GHz(for 2.4G) and 30 MHz to 40

Method of Measurement:

Reference FCC document: KDB558074

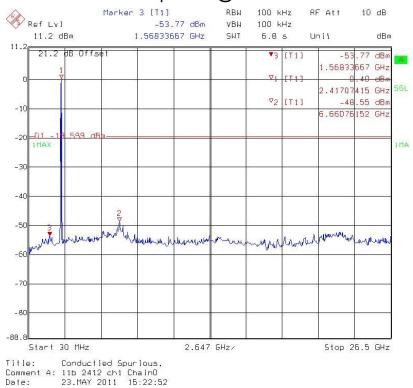
The measurements were performed from 30 MHz to 25 GHz RF antenna conducted per FCC 15.247 (d) was measured from the EUT antenna port using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 100 kHz. Harmonics and spurious noise must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The table below is the results from the highest emission for each channel within the authorized band. This table was used to determine the spurious limits for each channel.

Test Diagram:

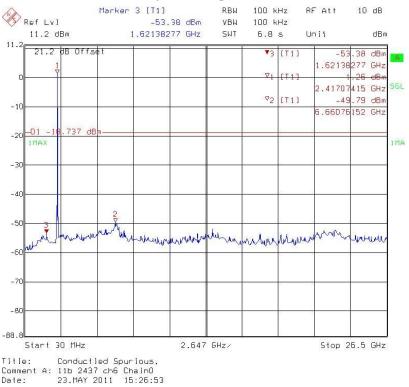




Chain 0: conducted spurious @ 802.11b mode channel 1



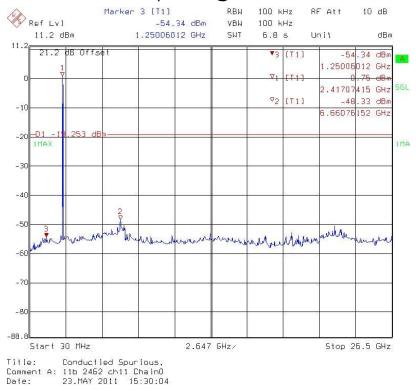
Chain 0: conducted spurious @ 802.11b mode channel 6



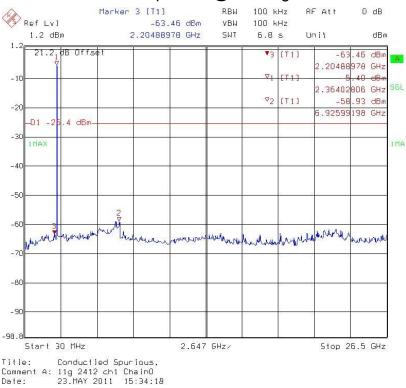
Date:



Chain 0: conducted spurious @ 802.11b mode channel 11

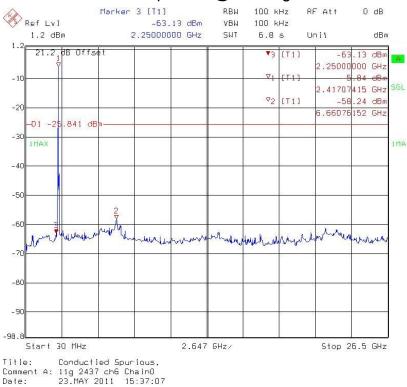


Chain 0: conducted spurious @ 802.11g mode channel 1

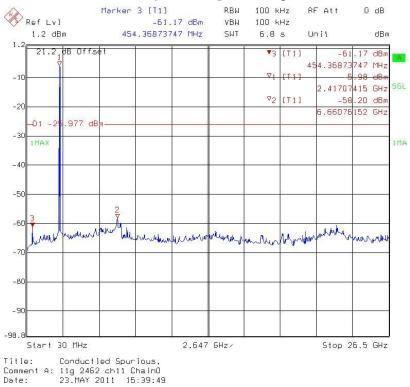




Chain 0: conducted spurious @ 802.11g mode channel 6

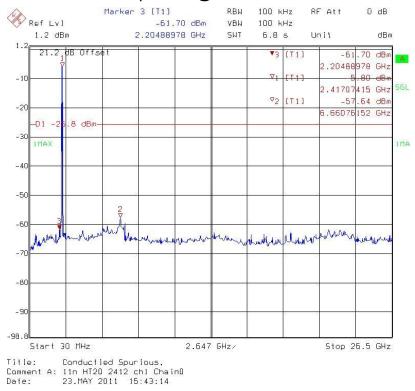


Chain 0: conducted spurious @ 802.11g mode channel 11

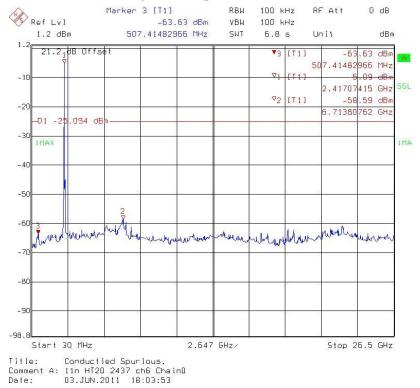




Chain 0: conducted spurious @ 802.11n HT20 mode channel 1

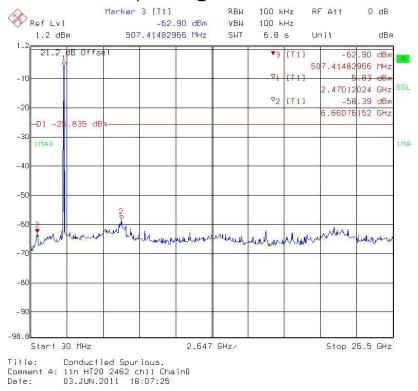


Chain 0: conducted spurious @ 802.11n HT20 mode channel 6

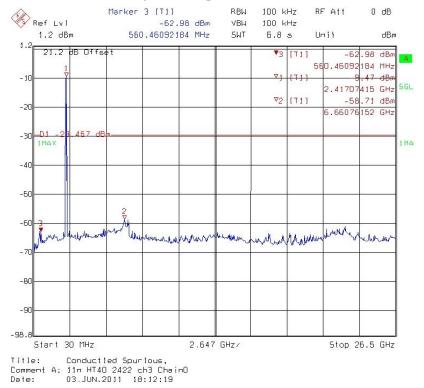




Chain 0: conducted spurious @ 802.11n HT20 mode channel 11

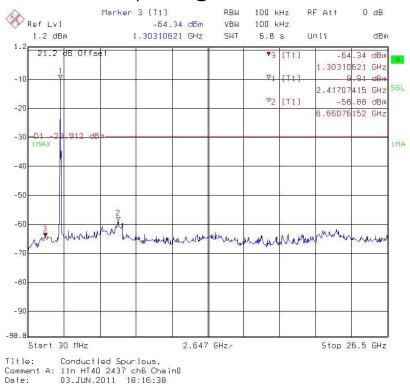


Chain 0: conducted spurious @ 802.11n HT40 mode channel 3

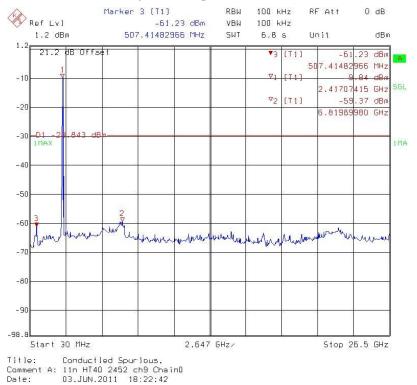




Chain 0: conducted spurious @ 802.11n HT40 mode channel 6



Chain 0: conducted spurious @ 802.11n HT40 mode channel 9





FCC ID.: K7T-WIFIHU-A Report No.: TS11050007-EME

8. Radiated Spurious Emission

Name of Test	Radiated Spurious Emission	
Base Standard	FCC 15.247(d), 15.209, 15.205	

Test Result: Complies

Measurement Data: See Tables below

Method of Measurement:

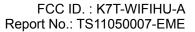
Reference FCC document: KDB558074, ANSI C63.4

The frequency range from 30 MHz to 1000 MHz using Bilog Antenna.

The frequency range over 1 GHz using Horn Antenna.

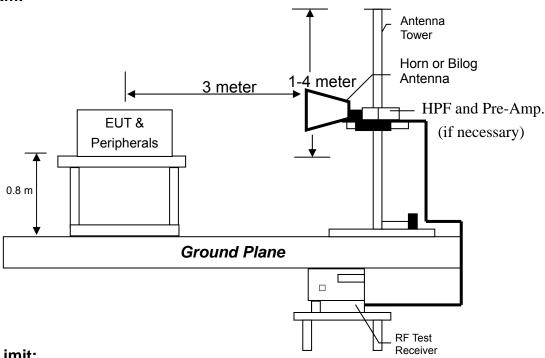
Radiated emissions were invested cover the frequency range from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz and 10 Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/VBW) recorded also on the report. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter. The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent 3 meters reading using inverse scaling with distance.

The EUT configuration please refer to the "Spurious set-up photo.pdf".





Test Diagram:



Emission Limit:

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency (MHz)	Limits (dBµV/m@ 3 meter)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

- 1. In the above table, the tighter limit applies at the band edges.
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Note:

- (1) The EUT was tested while in a continuous transmit mode and the worst case data rates are Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n HT20 mode and 13 Mbps data rate for 802.11n HT40 mode. The EUT was tuned to a low, middle and high channel.
- (2) The EUT operating at 2.4 GHz ISM band. Frequency Range scanned from 30 MHz to 25 GHz.