



**Spectrum Research &
Testing Lab., Inc.**
No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan

TEST REPORT

Reference No.: A10101501
Report No.: FCCA10101501
FCC ID : VYTLB-8616C
Page: 1 of 83
Date: Oct. 29, 2010

Product Name: LP-8616C 802.11n Wireless AP Router(1T1R)
Model No.: LP-8616C
Applicant: Loopcomm Technology, Co.
1F, No. 114, Lian-Chen Rd., Chung-Ho City,
Taipei Hsien, Taiwan R.O.C.
Brand LOOPCOMM
Date of Receipt: Oct. 15, 2010
Finished date of Test: Oct. 28, 2010
Applicable Standards: 47 CFR Part 15, Subpart C
ANSI C63.4: 2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By :

Shun Wang
(Shunm Wang)

, Date: Oct. 29, 2010

Approved By :

J. Ho
(Johnson Ho, Director)

, Date: 10/28/2010

NVLAP®

Lab Code: 200099-0
FMNG-059.10 REPORT

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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 Vac/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

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2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LP-8616C 802.11n Wireless AP Router(1T1R)
MODEL NO.	LP-8616C
BRAND	LOOPCOMM
POWER SUPPLY	DC power source from external adapter Input:100-240V, 0.3A, 50-60Hz Output : 12V, 1A
CABLE	1m unshielded LAN cable. 1m unshielded power core.
FREQUENCY BAND	2.400GHz ~ 2.483.5GHz
CARRIER FREQUENCY	2.412GHz ~ 2.462GHz ; 2.422GHz ~ 2.452GHz
CHANNEL SPACING	5 MHz
NUMBER OF CHANNEL	b/g/n(20M):11 ; n(40M):7
CHANNEL SPACING	20MHz
RATED RF OUTPUT POWER	11b : 0.0753W ; 11g : 0.0411W 11n(20M):0.0358W ; 11n(40M):0.015W
MODULATION TYPE	11b : DSSS ; 11g/n : OFDM
BIT RATE OF TRANSMISSION	11b: 1, 2, 5.5, 11Mbps 11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 11n(20M) : up to 72Mbps 11n(40M) : up to 150Mbps
MODE OF OPERATION	Half Duplex
ANTENNA TYPE	Reverse SMA Dipole
ANTENNA GAIN	2 dBi
OPERATING TEMPERATURE RANGE	0 ~ 60°C

NOTE :

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID / DOC	REMARK
NA				

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2.3 DESCRIPTION OF TEST MODE

11 channels are provided by EUT of wireless. The 3 channels of lower, medium and higher were chosen for test.

There are test modes for each test configuration as below:

Mode	Modulation Type	Channel	Frequency (MHz)	
1	IEEE 802.11b	CCK	CH01	2412
2		DQPSK	CH06	2437
3		DBPSK	CH11	2462
4	IEEE 802.11g	OFDM	CH01	2412
5			CH06	2437
6			CH11	2462
			20MHz	40MHz
7	IEEE 802.11n	OFDM	CH01	CH01
8			CH06	CH04
9			CH11	CH07
10	Standby	N/A	N/A	N/A

NOTE :

- Below 1 GHz, the channel 1, 6 and 11 were pre-tested in chamber. The channel 1, worst case one, was chosen for conducted and radiated emission test.
- Above 1 GHz, the channel 1, 6 and 11 were tested individually.

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID/DOC	CABLE
1	NOTEBOOK	DELL	PP21L	DOC	1.8m unshielded power cable.
2	Monitor	SAMSUNG	PG17IS	DOC	1.8m unshielded power cord 1.5m shielded data cable with one core.
3	Mouse	DELL	MO56UC	DOC	1.7m unshielded data cable.
4	Keyboard	DELL	SK-8115	DOC	1.8m shielded data cable

NOTE : For the actual test configuration, please refer to the photos of testing.



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2.5 EUT OPERATING CONDITION

1. Setup the EUT and all peripheral devices .
2. Turn on the power of all equipment and EUT.
3. We will use the following programs under Windows XP system to test EUT.
- 3.1 "EMI Test" program.

PC sent "H" pattern signal and detect following peripherals directly or via EUT:

- CRT Monitor
- HDD
- KEYBOARD
- MOUSE

3.2 " MP_Kit " program

Set the EUT under continuous transmission condition.

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3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

ANSI C63.4: 2003

All tests have been performed and recorded as the above standards.

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4 . TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE :

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9kHz TO 2.75 GHz	ROHDE & SCHWARZ	ESHS30 / 826003/008	SEP.2010 ETC
LISN	50 μ H, 50 ohm	FCC	FCC-LISN-50-25-2 / 01017	NOV. 2010 ETC
LISN	50 μ H, 50 ohm	SOLAR	9252-50-R24-BNC / 951315	NOV. 2010 ETC
50 OHM TERMINATOR	50 ohm	HP	11593A / #2	MAY. 2011 ETC
COAXIAL CABLE	5M	TIMES	RG214/U / #5M(L1TCAB013)	MAY. 2011 ETC
Filter	2 LINE, 30A	FIL.COIL	FC-943 / 771	NCR
GROUND PLANE	2M (H) x 3M (W)	SRT	N/A	NCR
GROUND PLANE	2.5M (H) x 3M (W)	SRT	N/A	NCR

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

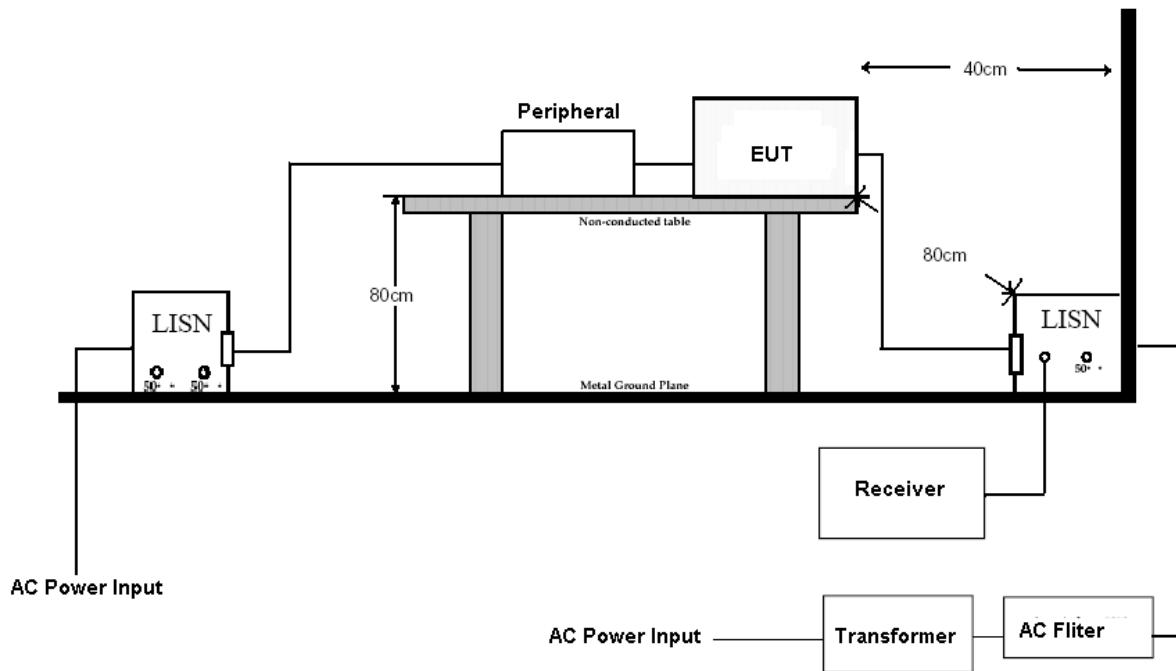


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4.1.3 TEST SETUP



NOTE :

1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 μ H as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

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4.1.5 TEST RESULT

Temperature:	22 °C	Humidity:	62 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	802.11 b
Receiver Detector:	Q.P. and AV.	Modulation Type:	DSSS
Tested Channel:	CH 01	Tested Date:	Oct. 28, 2010

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.258	0.29	51.70	40.24	51.99	40.53	61.50	51.50	-9.51	-10.97
0.261	0.29	51.94	45.08	52.23	45.37	61.40	51.40	-9.17	-6.03
4.596	0.19	39.74	29.43	39.93	29.62	56.00	46.00	-16.07	-16.38
4.873	0.20	39.43	29.70	39.63	29.90	56.00	46.00	-16.37	-16.10
5.376	0.20	40.02	29.97	40.22	30.17	60.00	50.00	-19.78	-19.83
5.558	0.20	39.58	29.47	39.78	29.67	60.00	50.00	-20.22	-20.33

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.264	0.30	50.89	44.81	51.19	45.11	61.31	51.31	-10.12	-6.20
0.273	0.30	43.59	28.22	43.89	28.52	61.03	51.03	-17.14	-22.51
4.546	0.22	34.37	25.00	34.59	25.22	56.00	46.00	-21.41	-20.78
5.091	0.23	34.74	24.24	34.97	24.47	60.00	50.00	-25.03	-25.53
6.066	0.23	34.44	23.87	34.67	24.10	60.00	50.00	-25.33	-25.90
23.128	0.53	40.05	36.81	40.58	37.34	60.00	50.00	-19.42	-12.66

NOTE :

1. Measurement uncertainty is +/- 2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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Temperature:	22 °C	Humidity:	62 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	802.11g
Receiver Detector:	Q.P. and AV.	Modulation Type:	OFDM
Tested Channel:	CH 01	Tested Date:	Oct. 28, 2010

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.261	0.29	51.84	45.14	52.13	45.43	61.40	51.40	-9.27	-5.97
0.264	0.29	52.22	46.73	52.51	47.02	61.31	51.31	-8.80	-4.29
4.705	0.19	39.76	29.83	39.95	30.02	56.00	46.00	-16.05	-15.98
5.193	0.20	39.63	29.76	39.83	29.96	60.00	50.00	-20.17	-20.04
6.137	0.20	39.52	29.53	39.72	29.73	60.00	50.00	-20.28	-20.27
20.258	0.43	40.61	35.26	41.04	35.69	60.00	50.00	-18.96	-14.31

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
2.610	0.21	50.05	43.61	50.26	43.82	56.00	46.00	-5.74	-2.18
0.267	0.30	50.35	43.54	50.65	43.84	61.21	51.21	-10.56	-7.37
4.744	0.22	34.44	24.17	34.66	24.39	56.00	46.00	-21.34	-21.61
5.670	0.23	34.41	23.81	34.64	24.04	60.00	50.00	-25.36	-25.96
5.710	0.23	34.15	23.60	34.38	23.83	60.00	50.00	-25.62	-26.17
23.128	0.53	40.03	36.68	40.56	37.21	60.00	50.00	-19.44	-12.79

NOTE :

1. Measurement uncertainty is +/- 2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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Temperature:	22 °C	Humidity:	62 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	802.11n (20MHz)
Receiver Detector:	Q.P. and AV.	Modulation Type:	OFDM
Tested Channel:	CH 01	Tested Date:	Oct. 28, 2010

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.255	0.29	50.81	34.81	51.10	35.10	61.59	51.59	-10.49	-16.49
0.261	0.29	51.36	44.41	51.65	44.70	61.40	51.40	-9.75	-6.70
4.625	0.19	37.40	26.89	37.59	27.08	56.00	46.00	-18.41	-18.92
5.294	0.20	37.53	26.78	37.73	26.98	60.00	50.00	-22.27	-23.02
6.370	0.21	37.30	26.91	37.51	27.12	60.00	50.00	-22.49	-22.88
21.663	0.45	39.84	35.10	40.29	35.55	60.00	50.00	-19.71	-14.45

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.261	0.30	50.13	43.36	50.43	43.66	61.40	51.40	-10.97	-7.74
0.264	0.30	50.87	45.11	51.17	45.41	61.31	51.31	-10.14	-5.90
4.972	0.23	34.47	24.09	34.70	24.32	56.00	46.00	-21.30	-21.68
5.244	0.23	34.71	24.01	34.94	24.24	60.00	50.00	-25.06	-25.76
5.274	0.23	34.71	23.99	34.94	24.22	60.00	50.00	-25.06	-25.78
23.128	0.53	40.01	36.68	40.54	37.21	60.00	50.00	-19.46	-12.79

NOTE :

1. Measurement uncertainty is +/- 2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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Temperature:	22 °C	Humidity:	62 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	802.11n (40MHz)
Receiver Detector:	Q.P. and AV.	Modulation Type:	OFDM
Tested Channel:	CH 01	Tested Date:	Oct. 28, 2010

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.255	0.29	50.93	34.17	51.22	34.46	61.59	51.59	-10.37	-17.13
0.261	0.29	51.48	44.19	51.77	44.48	61.40	51.40	-9.63	-6.92
4.447	0.19	38.25	27.67	38.44	27.86	56.00	46.00	-17.56	-18.14
5.599	0.20	38.08	27.93	38.28	28.13	60.00	50.00	-21.72	-21.87
5.700	0.20	37.29	26.53	37.49	26.73	60.00	50.00	-22.51	-23.27
16.230	0.32	39.16	34.00	39.48	34.32	60.00	50.00	-20.52	-15.68

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.240	0.30	50.65	42.99	50.95	43.29	62.10	52.10	-11.15	-8.81
0.264	0.30	50.79	45.06	51.09	45.36	61.31	51.31	-10.22	-5.95
3.863	0.22	33.57	23.15	33.79	23.37	56.00	46.00	-22.21	-22.63
4.774	0.22	34.64	24.43	34.86	24.65	56.00	46.00	-21.14	-21.35
6.340	0.24	33.80	22.95	34.04	23.19	60.00	50.00	-25.96	-26.81
23.128	0.53	39.97	36.58	40.50	37.11	60.00	50.00	-19.50	-12.89

NOTE :

1. Measurement uncertainty is +/- 2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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Temperature:	22 °C	Humidity:	62 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	RX
Receiver Detector:	Q.P. and AV.	Modulation Type:	N/A
Tested Date:	Oct. 28, 2010	Tested Channel:	N/A

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.150	0.39	55.78	42.81	56.17	43.20	66.00	56.00	-9.83	-12.80
0.255	0.29	52.22	41.71	52.51	42.00	61.59	51.59	-9.08	-9.59
4.714	0.19	39.68	29.90	39.87	30.09	56.00	46.00	-16.13	-15.91
5.000	0.20	39.58	29.84	39.78	30.04	56.00	46.00	-16.22	-15.96
5.518	0.20	39.90	29.79	40.10	29.99	60.00	50.00	-19.90	-20.01
23.128	0.47	42.19	37.34	42.66	37.81	60.00	50.00	-17.34	-12.19

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dB μ V)		Emission Level (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.213	0.30	49.43	35.40	49.73	35.70	63.09	53.09	-13.36	-17.39
0.264	0.30	50.03	41.07	50.33	41.37	61.31	51.31	-10.98	-9.94
4.982	0.23	36.71	27.17	36.94	27.40	56.00	46.00	-19.06	-18.60
5.152	0.23	36.47	27.40	36.70	27.63	60.00	50.00	-23.30	-22.37
5.518	0.23	36.40	27.01	36.63	27.24	60.00	50.00	-23.37	-22.76
28.684	0.63	36.82	32.59	37.45	33.22	60.00	50.00	-22.55	-16.78

NOTE :

1. Measurement uncertainty is +/- 2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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4.2 RADIATED EMISSION TEST

4.2.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below 1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dB μ V/m)
0.009 - 0.490	300	2400/F(KHz)
0.490 - 1.705	30	24000/F(KHz)
1.705 - 30	30	30
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
Above 960	3	54.0

NOTE :

1. In the emission tables above , the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument, antemna, and the closest point of any part of the device or system.

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dB μ V/m) (at 3m)		Class B (dB μ V/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

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4.2.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	20 MHz TO 1000 MHz	ROHDE & SCHWARZ	ESVS30 / 841977/003	DEC. 2010 ETC
BI-LOG ANTENNA	30 MHz TO 2 GHz	SCHAFFNER	CBL6141A / 4181	MAY. 2011 ETC
COAXIAL CABLE	30M	TIMES	LMR-400 / #30M	MAY. 2011 ETC
FILTER	2 LINE, 30A	FIL.COIL	FC-943 / 869	NRC
OATS	3 – 10 M MEASUREMENT	SRT	SRT-1	NOV. 2010 SRT
SPECTRUM ANALYZER	9K-40GHz	R&S	FSP40/ 100093	DEC. 2010 ETC
PRE-AMPLIFIER	1 GHz TO 26.5 GHz	HP	8449B/ 3008A01995	JAN. 2011 ETC
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 6881	NOV. 2010 ETC
HORN ANTENNA	18 GHz TO 40 GHz	EMCO	3116/ 00032255	FEB. 2011 ETC
K-TYPE CABLE	15M	HUBER SUHNER	SF 102-40/2*11/ 23932/2	MAY 2011 ETC
K-TYPE CABLE	1M	HUBER SUHNER	SF 102-40/2*11/ 23934/2	NOV. 2010 ETC

NOTE:

1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

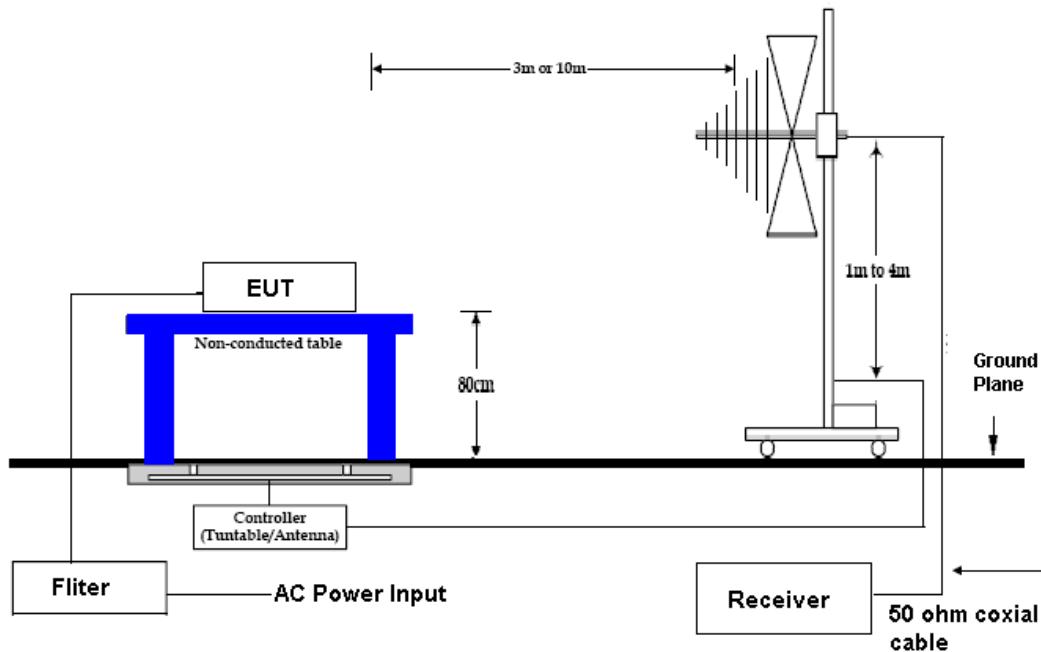


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4.2.3 TEST SET-UP (30MHz~1000MHz)



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

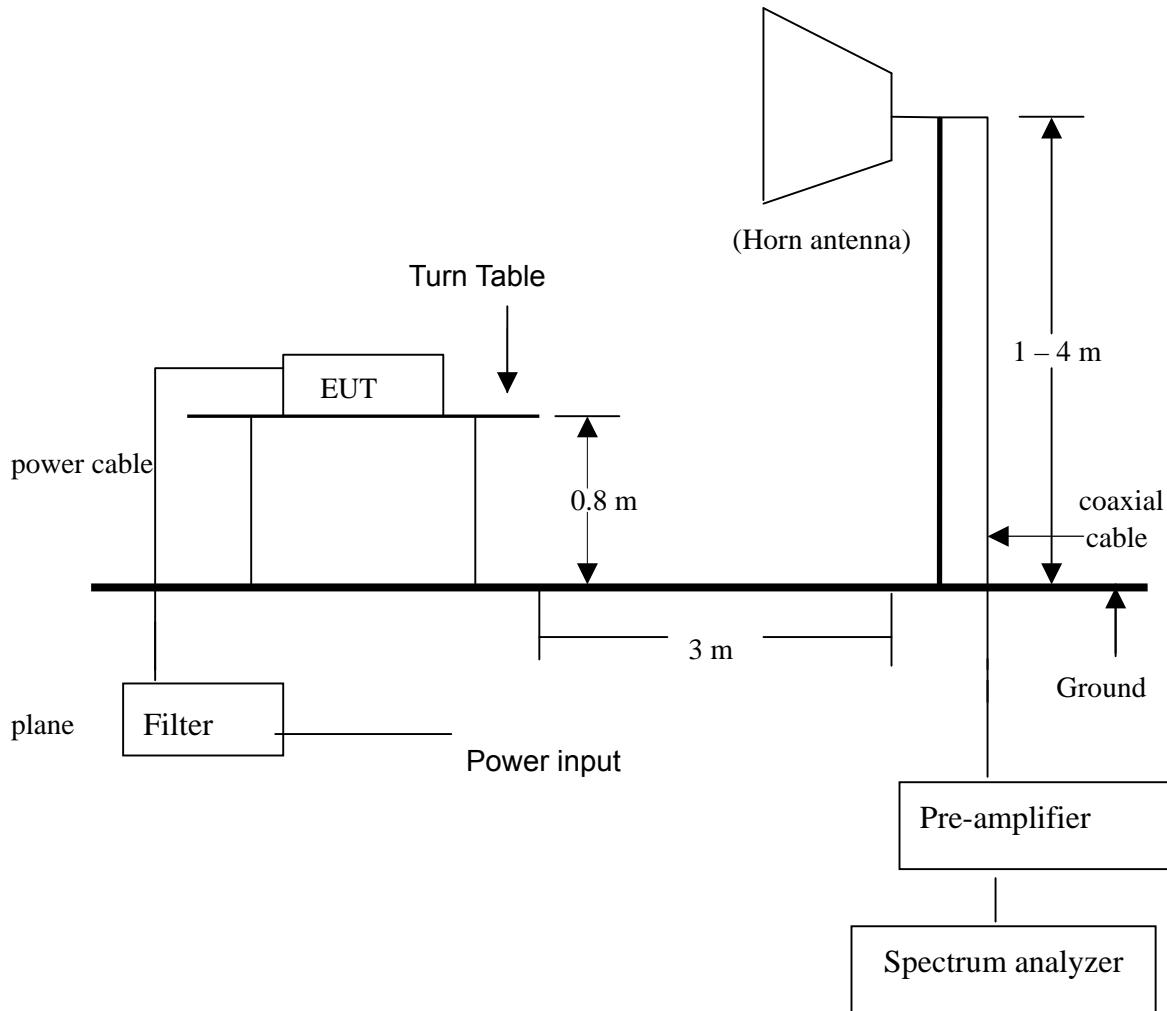


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(1GHz - 25GHz)



NOTE :

- 1.The EUT system was put on a wooden table with 0.8m heights above a ground plane.
- 2.For the actual test configuration, please refer to the photos of testing.

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4.2.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR 22:2003. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

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4.2.5 TEST RESULT

Temperature:	23 °C	Humidity:	71 %RH
Receiver Detector:	Q.P. or AV.	Tested Mode:	802.11b
Frequency Range:	30M – 1GHz	Modulation Type:	DSSS
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
39.7000	0.99	19.50	16.5	37.0	40.0	-3.0	25	2.12
127.0000	1.57	12.39	22.1	36.1	43.5	-7.4	159	2.04
150.2000	1.70	12.60	19.5	33.8	43.5	-9.7	64	1.95
316.1500	2.46	14.28	20.2	36.9	46.0	-9.1	121	1.51
369.5000	2.68	15.56	19.2	37.4	46.0	-8.6	38	1.42
500.0300	3.20	18.00	16.7	37.9	46.0	-8.1	246	1.26

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
37.2750	0.97	20.50	16.0	37.5	40.0	-2.5	274	1.51
49.4000	1.09	14.41	19.5	35.0	40.0	-5.0	96	1.25
56.6700	1.16	11.26	20.4	32.8	40.0	-7.2	153	1.39
124.5750	1.54	12.18	22.5	36.2	43.5	-7.3	218	1.21
418.0000	2.87	16.66	18.2	37.7	46.0	-8.3	96	1.24
434.9750	2.94	16.98	17.9	37.8	46.0	-8.2	331	1.14

NOTE :

1. Measurement uncertainty is +/- 2.3dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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Temperature:	23 °C	Humidity:	71 %RH
Receiver Detector:	Q.P. or AV.	Tested Mode:	802.11g
Frequency Range:	30M – 1GHz	Modulation Type:	OFDM
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
39.7000	0.99	19.50	16.4	36.9	40.0	-3.1	28	2.11
140.5500	1.70	12.70	21.2	35.6	43.5	-7.9	258	1.99
316.1500	2.46	14.28	20.0	36.7	46.0	-9.3	125	1.49
500.0310	3.20	18.00	16.8	38.0	46.0	-8.0	242	1.25
563.5000	3.43	18.86	18.5	40.8	46.0	-5.2	132	1.19
575.6250	3.45	19.10	14.2	36.8	46.0	-9.3	69	1.15

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
44.5500	1.04	16.96	19.1	37.1	40.0	-2.9	354	1.62
56.6710	1.16	11.26	20.5	32.9	40.0	-7.1	148	1.37
124.5750	1.54	12.18	22.6	36.3	43.5	-7.2	156	1.23
139.1250	1.69	12.69	23.2	37.6	43.5	-5.9	185	1.26
434.9750	2.94	16.98	17.8	37.7	46.0	-8.3	335	1.16
563.5000	3.43	18.86	16.5	38.8	46.0	-7.2	208	1.24

NOTE :

1. Measurement uncertainty is +/- 2.3dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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Temperature:	23 °C	Humidity:	71 %RH
Receiver Detector:	Q.P. or AV.	Tested Mode:	802.11n (20M)
Frequency Range:	30M – 1GHz	Modulation Type:	OFDM
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
78.5000	1.28	8.16	21.3	30.7	40.0	-9.3	177	2.06
127.0000	1.57	12.39	20.5	34.5	43.5	-9.0	191	1.89
153.6750	1.73	12.42	19.5	33.7	43.5	-9.9	313	1.35
224.0000	2.04	13.00	19.5	34.5	46.0	-11.5	85	1.34
316.1500	2.46	14.28	20.1	36.8	46.0	-9.2	126	1.47
500.0300	3.20	18.00	16.4	37.6	46.0	-8.4	239	1.23

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
39.7000	0.99	19.50	17.1	37.6	40.0	-2.4	176	1.51
49.4000	1.09	14.41	21.6	37.1	40.0	-2.9	236	1.25
56.6750	1.16	11.26	23.5	35.9	40.0	-4.1	154	1.37
124.5750	1.54	12.18	25.1	38.8	43.5	-4.7	86	1.42
367.0750	2.67	15.51	16.3	34.5	46.0	-11.5	114	1.36
434.9750	2.94	16.98	14.5	34.4	46.0	-11.6	19	1.11

NOTE :

1. Measurement uncertainty is +/- 2.3dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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Temperature:	23 °C	Humidity:	71 %RH
Receiver Detector:	Q.P. or AV.	Tested Mode:	802.11n (40M)
Frequency Range:	30M – 1GHz	Modulation Type:	OFDM
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
140.5300	1.70	12.70	20.1	34.5	43.5	-9.0	156	1.94
316.1500	2.46	14.28	22.5	39.2	46.0	-6.8	236	1.75
500.0300	3.20	18.00	19.4	40.6	46.0	-5.4	65	1.27
563.5000	3.43	18.86	18.4	40.7	46.0	-5.3	313	1.34
585.3250	3.47	19.30	17.1	39.9	46.0	-6.1	149	1.22
643.5250	3.67	20.20	15.3	39.2	46.0	-6.8	16	1.19

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
44.5500	1.04	16.96	19.4	37.4	40.0	-2.6	193	1.49
56.6750	1.16	11.26	23.6	36.0	40.0	-4.0	152	1.35
127.0000	1.57	12.39	24.1	38.1	43.5	-5.4	309	1.28
139.1250	1.69	12.69	24.9	39.3	43.5	-4.2	230	1.15
434.9750	2.94	16.98	20.3	40.2	46.0	-5.8	20	1.16
563.5000	3.43	18.86	15.4	37.7	46.0	-8.3	100	1.2

NOTE :

1. Measurement uncertainty is +/- 2.3dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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Temperature:	23 °C	Humidity:	71 %RH
Receiver Detector:	Q.P. or AV.	Tested Mode:	Rx
Frequency Range:	30M – 1GHz	Modulation Type:	NA
		Tested Channel:	NA
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
78.5000	1.28	8.16	21.9	31.3	40.0	-8.7	224	2.39
127.0000	1.57	12.39	18.4	32.4	43.5	-11.1	156	2.05
139.1250	1.69	12.69	17.5	31.9	43.5	-11.6	305	2.21
150.6750	1.70	12.60	16.3	30.6	43.5	-12.9	62	1.94
316.1500	2.46	14.28	20.0	36.7	46.0	-9.3	119	1.53
500.0300	3.20	18.00	16.5	37.7	46.0	-8.3	243	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	AZ(°)	EL(m)
44.5500	1.04	16.96	19.1	37.1	40.0	-2.9	159	1.35
46.6750	1.06	15.94	20.2	37.2	40.0	-2.8	222	1.49
127.0000	1.57	12.39	22.8	36.8	43.5	-6.7	36	1.25
224.0000	2.04	13.00	18.5	33.5	46.0	-12.5	156	1.34
316.1500	2.46	14.28	15.9	32.6	46.0	-13.4	269	1.24
434.9750	2.94	16.98	16.1	36.0	46.0	-10.0	328	1.13

NOTE :

1. Measurement uncertainty is +/- 2.3dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 b
Receiver Detector:	PK. or AV.	Modulation Type:	DSSS
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2412.00	-22.66	28.12	100.2	96.2	105.7	101.7	74.0	54.0	(F)	(F)	341	1.54
4824.00	-16.65	33.11	35.4	34.0	51.9	50.5	74.0	54.0	-22.1	-3.5	207	1.39
7236.00	-12.72	35.67	29.1	28.1	52.1	51.1	74.0	54.0	-21.9	-2.9	153	1.35
1833.00	-24.57	26.70	45.2	39.4	47.3	41.5	74.0	54.0	-26.7	-12.5	47	1.17
2334.50	-22.90	27.97	43.6	35.1	48.6	40.2	74.0	54.0	-25.4	-13.8	174	1.25
2508.75	-22.38	28.33	39.7	31.2	45.7	37.1	74.0	54.0	-28.3	-16.9	159	1.18

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2412.00	-22.66	28.12	107.3	103.8	112.8	109.3	74.0	54.0	(F)	(F)	208	1.35
4824.00	-16.65	33.11	42.9	34.9	59.4	51.4	74.0	54.0	-14.6	-2.6	177	1.12
7236.00	-12.72	35.67	30.2	28.3	53.2	51.3	74.0	54.0	-20.8	-2.7	106	1.24
1663.00	-25.25	26.09	47.7	40.4	48.6	41.2	74.0	54.0	-25.4	-12.8	153	1.25
2330.25	-22.91	27.96	51.2	42.5	56.3	47.6	74.0	54.0	-17.7	-6.5	259	1.36
2504.58	-22.39	28.31	47.1	41.6	53.0	47.5	74.0	54.0	-21.0	-6.5	317	1.22

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. "": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:27 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 b
Receiver Detector:	PK. or AV.	Modulation Type:	DSSS
		Tested Channel:	CH 06
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	97.7	93.4	103.3	99.0	74.0	54.0	(F)	(F)	349	1.52
4874.00	-16.55	33.22	32.3	31.2	49.0	47.9	74.0	54.0	-25.0	-6.1	214	1.36
7311.00	-12.63	35.82	26.4	25.3	49.6	48.5	74.0	54.0	-24.4	-5.5	162	1.38
1833.00	-24.57	26.70	48.1	40.2	50.2	42.3	74.0	54.0	-23.8	-11.7	172	1.24
1909.50	-24.26	26.97	47.9	39.5	50.6	42.2	74.0	54.0	-23.4	-11.8	256	1.15
2355.75	-22.84	28.01	43.6	38.2	48.7	43.4	74.0	54.0	-25.3	-10.6	168	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	106.6	102.5	112.2	108.1	74.0	54.0	(F)	(F)	213	1.33
4874.00	-16.55	33.22	41.2	33.4	57.9	50.1	74.0	54.0	-16.1	-3.9	167	1.14
7311.00	-12.63	35.82	29.7	27.3	52.9	50.5	74.0	54.0	-21.1	-3.5	111	1.22
1093.50	-28.18	24.52	47.6	43.2	43.9	39.5	74.0	54.0	-30.1	-14.5	37	1.35
2330.25	-22.91	27.96	51.2	42.5	56.3	47.6	74.0	54.0	-17.7	-6.5	259	1.36
2504.58	-22.39	28.31	47.1	41.6	53.0	47.5	74.0	54.0	-21.0	-6.5	317	1.22

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. "": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:28 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 b
Receiver Detector:	PK. or AV.	Modulation Type:	DSSS
		Tested Channel:	CH 11
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2462.00	-22.51	28.22	97.1	93.1	102.8	98.8	74.0	54.0	(F)	(F)	337	1.56
4924.00	-16.45	33.33	32.4	31.1	49.3	48.0	74.0	54.0	-24.7	-6.0	201	1.38
7386.00	-12.54	35.97	26.1	25.6	49.5	49.0	74.0	54.0	-24.5	-5.0	149	1.34
1051.00	-28.41	24.42	41.0	35.2	37.0	31.2	74.0	54.0	-37.0	-22.8	352	1.26
1828.75	-24.59	26.68	48.0	42.3	50.1	44.4	74.0	54.0	-23.9	-9.6	174	1.31
2385.50	-22.75	28.07	42.9	34.2	48.2	39.5	74.0	54.0	-25.8	-14.5	305	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2462.00	-22.51	28.22	106.6	102.7	112.3	108.4	74.0	54.0	(F)	(F)	213	1.31
4924.00	-16.45	33.33	42.1	34.3	59.0	51.2	74.0	54.0	-15.0	-2.8	162	1.14
7386.00	-12.54	35.97	29.3	27.4	52.7	50.8	74.0	54.0	-21.3	-3.2	103	1.23
1735.25	-24.96	26.35	49.9	41.2	51.3	42.6	74.0	54.0	-22.7	-11.4	256	1.18
2389.75	-22.73	28.08	48.4	40.2	53.7	45.5	74.0	54.0	-20.3	-8.5	347	1.21
2551.25	-22.28	28.48	47.1	40.8	53.3	47.0	74.0	54.0	-20.7	-7.0	149	1.08

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. "": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:29 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 g
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2412.00	-22.66	28.12	95.8	91.4	101.3	96.9	74.0	54.0	(F)	(F)	335	1.52
4824.00	-16.65	33.11	30.3	28.1	46.8	44.6	74.0	54.0	-27.2	-9.4	249	1.35
7236.00	-12.72	35.67	24.1	22.2	47.1	45.2	74.0	54.0	-26.9	-8.8	177	1.24
1093.50	-28.18	24.52	47.4	40.2	43.7	36.5	74.0	54.0	-30.3	-17.5	157	1.34
1119.00	-28.03	24.59	50.0	43.5	46.5	40.1	74.0	54.0	-27.5	-13.9	256	1.29
2338.75	-22.89	27.98	40.1	33.4	45.2	38.5	74.0	54.0	-28.8	-15.5	301	1.13

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2412.00	-22.66	28.12	104.7	100.2	110.2	105.7	74.0	54.0	(F)	(F)	247	1.32
4824.00	-16.65	33.11	39.6	31.5	56.1	48.0	74.0	54.0	-17.9	-6.0	153	1.19
7236.00	-12.72	35.67	27.4	25.1	50.4	48.1	74.0	54.0	-23.6	-5.9	84	1.14
1093.50	-28.18	24.52	45.1	40.9	41.4	37.2	74.0	54.0	-32.6	-16.8	117	1.25
1136.00	-27.94	24.63	44.5	35.6	41.2	32.3	74.0	54.0	-32.8	-21.7	15	1.27
2330.25	-22.91	27.96	47.4	41.7	52.5	46.8	74.0	54.0	-21.6	-7.3	338	1.18

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:30 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 g
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 06
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	94.8	90.5	100.4	96.1	74.0	54.0	(F)	(F)	351	1.53
4874.00	-16.55	33.22	29.4	27.2	46.1	43.9	74.0	54.0	-27.9	-10.1	244	1.33
7311.00	-12.63	35.82	23.6	21.6	46.8	44.8	74.0	54.0	-27.2	-9.2	173	1.25
1055.25	-28.39	24.43	45.2	43.5	41.3	39.5	74.0	54.0	-32.8	-14.5	251	1.35
1909.50	-24.26	26.97	42.6	39.7	45.3	42.4	74.0	54.0	-28.7	-11.6	159	1.25
2351.50	-22.85	28.00	41.0	38.2	46.2	43.4	74.0	54.0	-27.8	-10.6	145	1.19

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	103.1	99.4	108.7	105.0	74.0	54.0	(F)	(F)	219	1.31
4874.00	-16.55	33.22	38.4	30.3	55.1	47.0	74.0	54.0	-18.9	-7.0	167	1.14
7311.00	-12.63	35.82	26.3	24.0	49.5	47.2	74.0	54.0	-24.5	-6.8	90	1.25
1548.25	-25.71	25.67	43.9	36.2	43.8	36.2	74.0	54.0	-30.2	-17.8	54	1.25
1922.25	-24.21	27.02	45.8	38.6	48.6	41.4	74.0	54.0	-25.4	-12.6	39	1.17
2355.75	-22.84	28.01	46.1	39.9	51.3	45.1	74.0	54.0	-22.7	-8.9	217	1.3

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. "": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:31 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 g
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 11
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2462.00	-22.51	28.22	92.9	88.6	98.6	94.3	74.0	54.0	(F)	(F)	330	1.53
4924.00	-16.45	33.33	27.3	25.1	44.2	42.0	74.0	54.0	-29.8	-12.0	251	1.36
7386.00	-12.54	35.97	21.3	19.9	44.7	43.3	74.0	54.0	-29.3	-10.7	180	1.22
1760.75	-24.86	26.44	43.2	39.2	44.8	40.8	74.0	54.0	-29.2	-13.2	31	1.26
1837.25	-24.55	26.71	47.4	41.5	49.6	43.7	74.0	54.0	-24.4	-10.3	169	1.21
2381.25	-22.76	28.06	49.2	43.3	54.5	48.6	74.0	54.0	-19.5	-5.4	98	1.15

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2462.00	-22.51	28.22	102.2	98.9	107.9	104.6	74.0	54.0	(F)	(F)	243	1.28
4924.00	-16.45	33.33	37.3	29.7	54.2	46.6	74.0	54.0	-19.8	-7.4	157	1.2
7386.00	-12.54	35.97	25.1	23.2	48.5	46.6	74.0	54.0	-25.5	-7.4	88	1.13
1000.30	-28.70	24.30	43.7	34.2	39.3	29.8	74.0	54.0	-34.7	-24.2	153	1.31
2381.25	-22.76	28.06	44.5	35.9	49.8	41.2	74.0	54.0	-24.2	-12.8	128	1.15
2559.75	-22.26	28.51	42.9	31.5	49.2	37.8	74.0	54.0	-24.8	-16.2	139	1.12

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. "": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:32 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 n (20M)
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2412.00	-22.66	28.12	95.2	91.2	100.6	96.7	74.0	54.0	(F)	(F)	326	1.49
4824.00	-16.65	33.11	30.3	29.1	46.8	45.6	74.0	54.0	-27.2	-8.4	192	1.35
7236.00	-12.72	35.67	24.1	23.0	47.1	46.0	74.0	54.0	-26.9	-8.0	138	1.32
1093.50	-28.18	24.52	42.5	38.7	38.9	35.0	74.0	54.0	-35.1	-19.0	325	1.21
1760.75	-24.86	26.44	42.2	38.3	43.8	39.9	74.0	54.0	-30.2	-14.1	163	1.27
2330.25	-22.91	27.96	40.7	36.2	45.7	41.3	74.0	54.0	-28.3	-12.8	226	1.19

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2412.00	-22.66	28.12	102.8	98.4	108.3	103.9	74.0	54.0	(F)	(F)	239	1.29
4824.00	-16.65	33.11	42.9	34.9	59.4	51.4	74.0	54.0	-14.6	-2.6	200	1.15
7236.00	-12.72	35.67	30.2	28.3	53.2	51.3	74.0	54.0	-20.8	-2.7	138	1.19
1025.00	-28.56	24.36	42.9	35.3	38.7	31.1	74.0	54.0	-35.3	-22.9	35.6	1.22
2330.25	-22.91	27.96	47.1	40.2	52.1	45.3	74.0	54.0	-21.9	-8.8	236	1.35
2496.00	-22.41	28.29	42.6	35.0	48.4	40.9	74.0	54.0	-25.6	-13.1	338	1.15

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:33 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 n (20M)
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 06
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	93.8	89.7	99.4	95.3	74.0	54.0	(F)	(F)	315	1.46
4874.00	-16.55	33.22	28.6	29.1	45.3	45.8	74.0	54.0	-28.7	-8.2	189	1.34
7311.00	-12.63	35.82	22.4	23.0	45.6	46.2	74.0	54.0	-28.4	-7.8	135	1.31
1204.00	-27.56	24.79	43.5	35.1	40.8	32.3	74.0	54.0	-33.2	-21.7	136	1.22
1824.50	-24.60	26.67	47.0	37.5	49.1	39.6	74.0	54.0	-24.9	-14.4	268	1.19
2355.75	-22.84	28.01	41.3	33.2	46.5	38.4	74.0	54.0	-27.5	-15.6	230	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	102.5	98.3	108.1	103.9	74.0	54.0	(F)	(F)	232	1.27
4874.00	-16.55	33.22	42.5	34.4	59.2	51.1	74.0	54.0	-14.8	-2.9	205	1.16
7311.00	-12.63	35.82	29.8	28.0	53.0	51.2	74.0	54.0	-21.0	-2.8	132	1.18
1833.00	-24.57	26.70	47.1	40.3	49.2	42.4	74.0	54.0	-24.8	-11.6	207	1.24
2360.00	-22.82	28.02	46.4	39.9	51.6	45.1	74.0	54.0	-22.4	-8.9	156	1.28
2534.25	-22.32	28.42	42.0	37.3	48.1	43.4	74.0	54.0	-25.9	-10.6	147	1.11

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:34 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 n (20M)
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 11
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2462.00	-22.51	28.22	92.0	86.4	97.7	92.1	74.0	54.0	(F)	(F)	214	1.35
4924.00	-16.45	33.33	30.3	29.1	47.2	46.0	74.0	54.0	-26.8	-8.0	195	1.36
7386.00	-12.54	35.97	24.1	23.0	47.5	46.4	74.0	54.0	-26.5	-7.6	134	1.31
1127.50	-27.99	24.60	41.8	35.3	38.4	31.9	74.0	54.0	-35.6	-22.1	247	1.25
1833.00	-24.57	26.70	48.4	42.1	50.5	44.2	74.0	54.0	-23.5	-9.8	136	1.16
2381.25	-22.76	28.06	49.5	42.9	54.8	48.2	74.0	54.0	-19.2	-5.8	229	1.09

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2462.00	-22.51	28.22	102.5	98.1	108.2	103.8	74.0	54.0	(F)	(F)	244	1.28
4924.00	-16.45	33.33	42.5	34.6	59.4	51.5	74.0	54.0	-14.6	-2.5	195	1.14
7386.00	-12.54	35.97	30.0	28.1	53.4	51.5	74.0	54.0	-20.6	-2.5	141	1.20
1004.25	-28.68	24.31	44.9	35.7	40.5	31.3	74.0	54.0	-33.5	-22.7	316	1.19
2381.25	-22.76	28.06	45.2	36.1	50.5	41.4	74.0	54.0	-23.5	-12.6	264	1.24
2555.50	-22.27	28.50	44.2	35.2	50.4	41.4	74.0	54.0	-23.6	-12.6	208	1.09

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page: 35 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 n (40M)
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 01
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2422.00	-22.63	28.14	92.9	87.9	98.4	93.4	74.0	54.0	(F)	(F)	203	1.42
4844.00	-16.61	33.16	30.3	28.4	46.8	44.9	74.0	54.0	-27.2	-9.1	255	1.27
7266.00	-12.68	35.73	24.1	22.7	47.2	45.8	74.0	54.0	-26.8	-8.2	313	1.15
1760.75	-24.86	26.44	46.6	41.5	48.2	43.1	74.0	54.0	-25.8	-10.9	177	1.31
1833.00	-24.57	26.70	46.8	41.8	48.9	43.9	74.0	54.0	-25.1	-10.1	279	1.24
2334.50	-22.90	27.97	40.3	35.2	45.4	40.3	74.0	54.0	-28.6	-13.7	156	1.22

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2422.00	-22.63	28.14	100.6	96.4	106.1	101.9	74.0	54.0	(F)	(F)	222	1.19
4844.00	-16.61	33.16	35.5	31.5	52.0	48.0	74.0	54.0	-22.0	-6.0	305	1.16
7266.00	-12.68	35.73	23.4	20.6	46.5	43.7	74.0	54.0	-27.5	-10.3	133	1.22
1093.50	-28.18	24.52	45.7	38.8	42.1	35.1	74.0	54.0	-31.9	-18.9	228	1.31
1854.25	-24.48	26.77	43.8	35.1	46.1	37.4	74.0	54.0	-27.9	-16.6	201	1.34
2330.25	-22.91	27.96	46.8	39.4	51.8	44.5	74.0	54.0	-22.2	-9.6	138	1.21

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page: 36 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 n (40M)
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 04
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	91.6	85.9	97.2	91.5	74.0	54.0	(F)	(F)	253	1.35
4874.00	-16.55	33.22	29.7	27.3	46.4	44.0	74.0	54.0	-27.6	-10.0	259	1.25
7311.00	-12.63	35.82	23.4	21.1	46.6	44.3	74.0	54.0	-27.4	-9.7	317	1.16
1760.75	-24.86	26.44	47.0	40.2	48.5	41.8	74.0	54.0	-25.5	-12.2	103	1.25
1833.00	-24.57	26.70	48.4	41.6	50.5	43.7	74.0	54.0	-23.5	-10.3	257	1.32
2368.50	-22.80	28.04	48.5	41.8	53.7	47.0	74.0	54.0	-20.3	-7.0	66	1.17

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2437.00	-22.59	28.17	100.0	95.1	105.5	100.7	74.0	54.0	(F)	(F)	129	1.15
4874.00	-16.55	33.22	35.6	31.4	52.3	48.1	74.0	54.0	-21.7	-5.9	310	1.17
7311.00	-12.63	35.82	23.3	20.4	46.5	43.6	74.0	54.0	-27.5	-10.4	130	1.23
1093.50	-28.18	24.52	41.3	35.1	37.6	31.4	74.0	54.0	-36.4	-22.6	256	1.32
1833.00	-24.57	26.70	48.4	40.5	50.5	42.6	74.0	54.0	-23.5	-11.4	177	1.25
2351.50	-22.85	28.00	46.4	38.9	51.6	44.1	74.0	54.0	-22.4	-9.9	49	1.08

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F): The field strength of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:37 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	802.11 n (40M)
Receiver Detector:	PK. or AV.	Modulation Type:	OFDM
		Tested Channel:	CH 07
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2452.00	-22.54	28.20	90.4	85.1	96.0	90.8	74.0	54.0	(F)	(F)	261	1.39
4904.00	-16.49	33.29	30.3	28.4	47.1	45.2	74.0	54.0	-26.9	-8.8	250	1.25
7356.00	-12.57	35.91	24.1	22.7	47.4	46.0	74.0	54.0	-26.6	-8.0	319	1.14
1378.25	-26.58	25.21	43.0	35.1	41.6	33.7	74.0	54.0	-32.4	-20.3	223	1.25
1833.00	-24.57	26.70	47.7	41.5	49.9	43.6	74.0	54.0	-24.1	-10.4	156	1.30
2364.25	-22.81	28.03	40.4	33.2	45.6	38.4	74.0	54.0	-28.4	-15.6	163	1.22

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2452.00	-22.54	28.20	99.6	94.9	105.3	100.6	74.0	54.0	(F)	(F)	141	1.15
4904.00	-16.49	33.29	34.9	30.1	51.7	46.9	74.0	54.0	-22.3	-7.1	313	1.18
7356.00	-12.57	35.91	22.8	20.0	46.1	43.3	74.0	54.0	-27.9	-10.7	129	1.20
1833.00	-24.57	26.70	47.7	40.3	49.9	42.4	74.0	54.0	-24.1	-11.6	97	1.15
2368.50	-22.80	28.04	45.5	38.1	50.7	43.3	74.0	54.0	-23.3	-10.7	25	1.27
2551.25	-22.28	28.48	42.3	35.3	48.5	41.5	74.0	54.0	-25.5	-12.5	133	1.22

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field stregth of fundamental frequency.

 <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p>	<h1>TEST REPORT</h1>	Reference No.: A10101501 Report No.: FCCA10101501 FCC ID : VYTLB-8616C Page:38 of 83 Date: Oct. 29, 2010
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Temperature:	23 °C	Humidity:	71 %RH
Frequency Range:	1 – 25GHz	Tested Mode:	Rx
Receiver Detector:	PK. or AV.	Modulation Type:	NA
		Tested Channel:	NA
Tested By:	Shunm Wang	Tested Date:	Oct. 27, 2010

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1051.00	-28.41	24.42	37.7	35.2	33.7	31.2	74.0	54.0	-40.3	-22.8	355	1.54
1408.00	-26.42	25.28	40.9	39.1	39.8	38.0	74.0	54.0	-34.2	-16.0	135	1.27
1637.50	-25.35	25.99	42.3	40.2	43.0	40.8	74.0	54.0	-31.0	-13.2	207	1.35
1845.75	-24.52	26.74	46.2	43.6	48.4	45.8	74.0	54.0	-25.6	-8.2	56	1.62
2241.00	-23.18	27.78	46.3	43.1	50.9	47.7	74.0	54.0	-23.1	-6.3	257	1.14
3813.75	-18.91	31.98	38.0	35.4	51.1	48.5	74.0	54.0	-22.9	-5.5	119	1.33

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1051.00	-28.41	24.42	40.1	37.6	36.1	33.6	74.0	54.0	-37.9	-20.4	204	1.27
1216.75	-27.49	24.82	41.4	37.5	38.7	34.8	74.0	54.0	-35.3	-19.2	151	1.14
1760.75	-24.86	26.44	46.0	42.7	47.6	44.3	74.0	54.0	-26.4	-9.7	38	1.25
1833.00	-24.57	26.70	47.7	45.1	49.9	47.2	74.0	54.0	-24.1	-6.8	327	1.28
2389.75	-22.73	28.08	45.4	42.9	50.7	48.2	74.0	54.0	-23.3	-5.8	28	1.13
3945.75	-18.62	32.35	37.5	35.1	51.2	48.8	74.0	54.0	-22.8	-5.2	314	1.05

NOTE :

1. Measurement uncertainty is +/- 2.4dB.
2. **: The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field strength of fundamental frequency.

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4.3 BANDWIDTH TEST

4.3.1 LIMIT

FCC Part15, Subpart C Section 15.247(2). The minimum 6dBm bandwidth shall be at least 500 kHz.

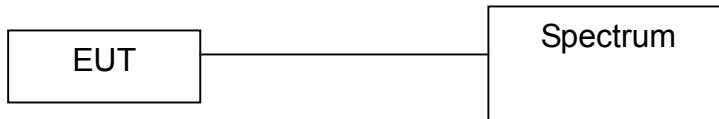
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9K-40GHz	R&S	FSP40/ 100093	DEC. 2010 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.3.4 TEST PROCEDURE

The EUT was operated in continuous transmission mode or any specific channel.
Printed out the test result from the spectrum by hard copy function.

4.3.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



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TEST REPORT

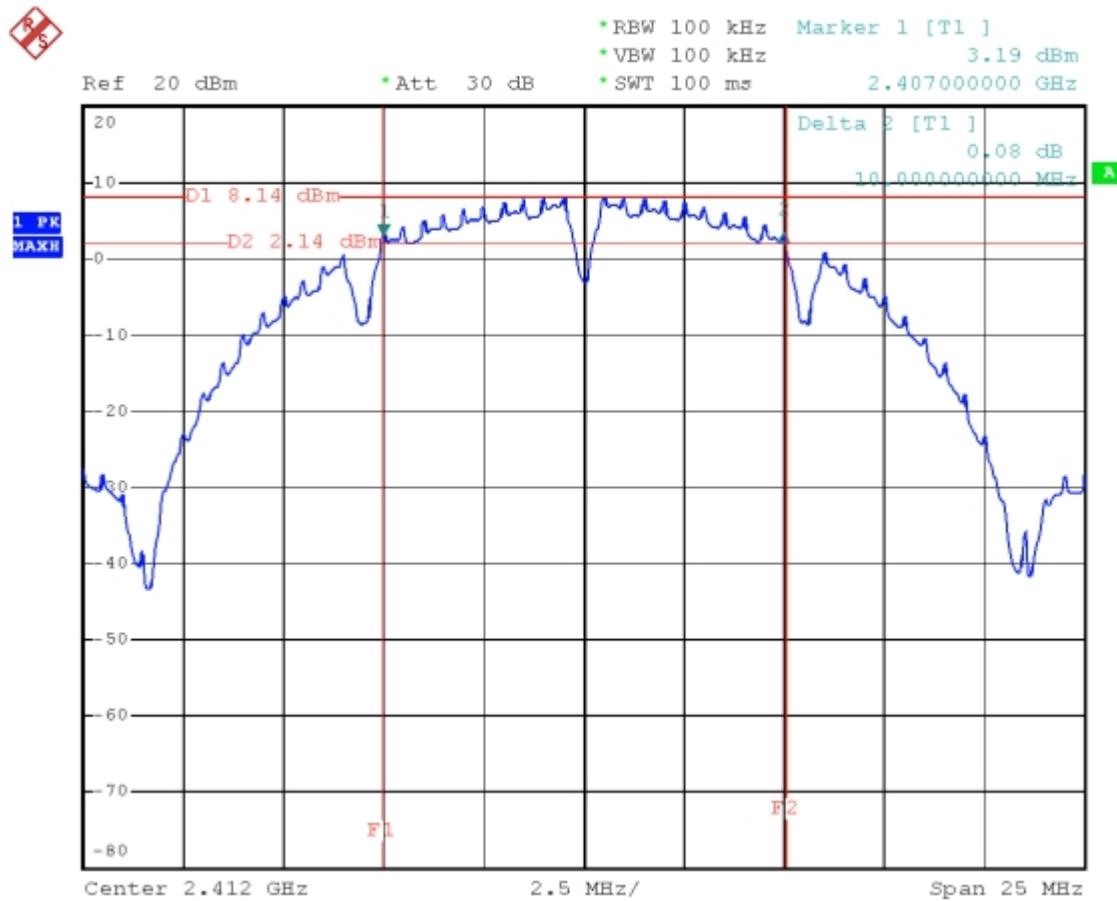
Reference No.: A10101501
Report No.: FCCA10101501
FCC ID : VYTL-P8616C
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4.3.6 TEST RESULT

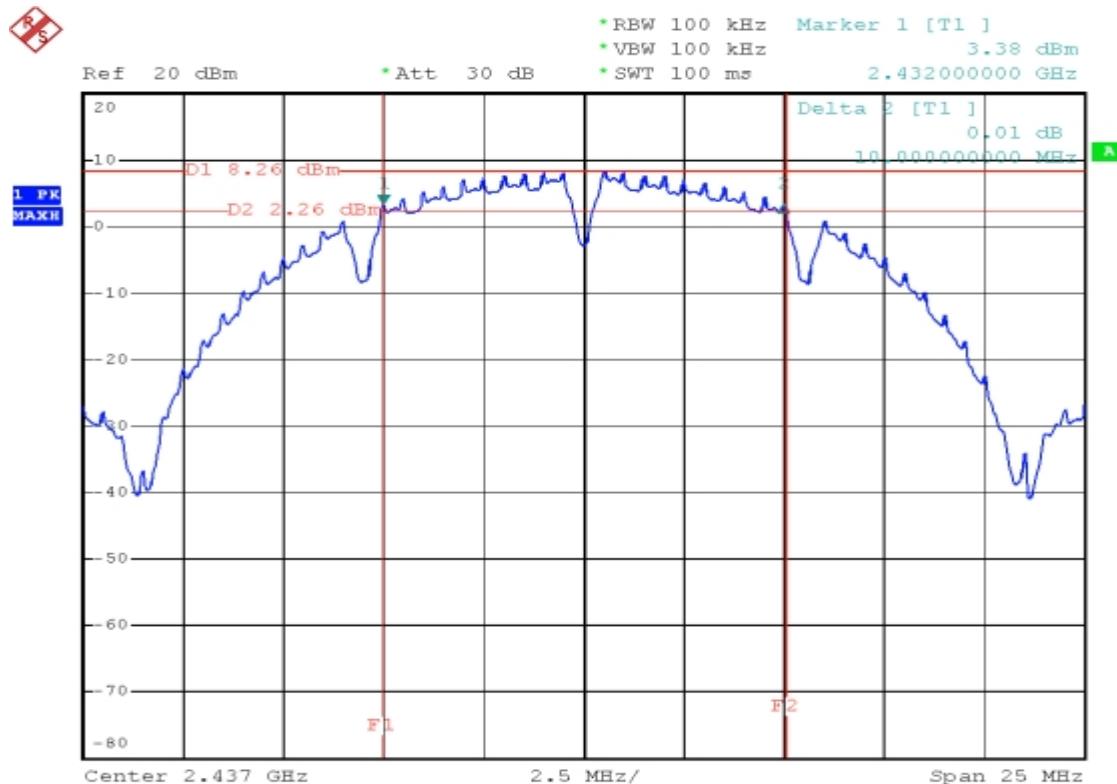
Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 b
		Modulation Type:	DSSS
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	6dB DOWN BW (MHz)
1	2412	10.00
6	2437	10.00
11	2462	10.00

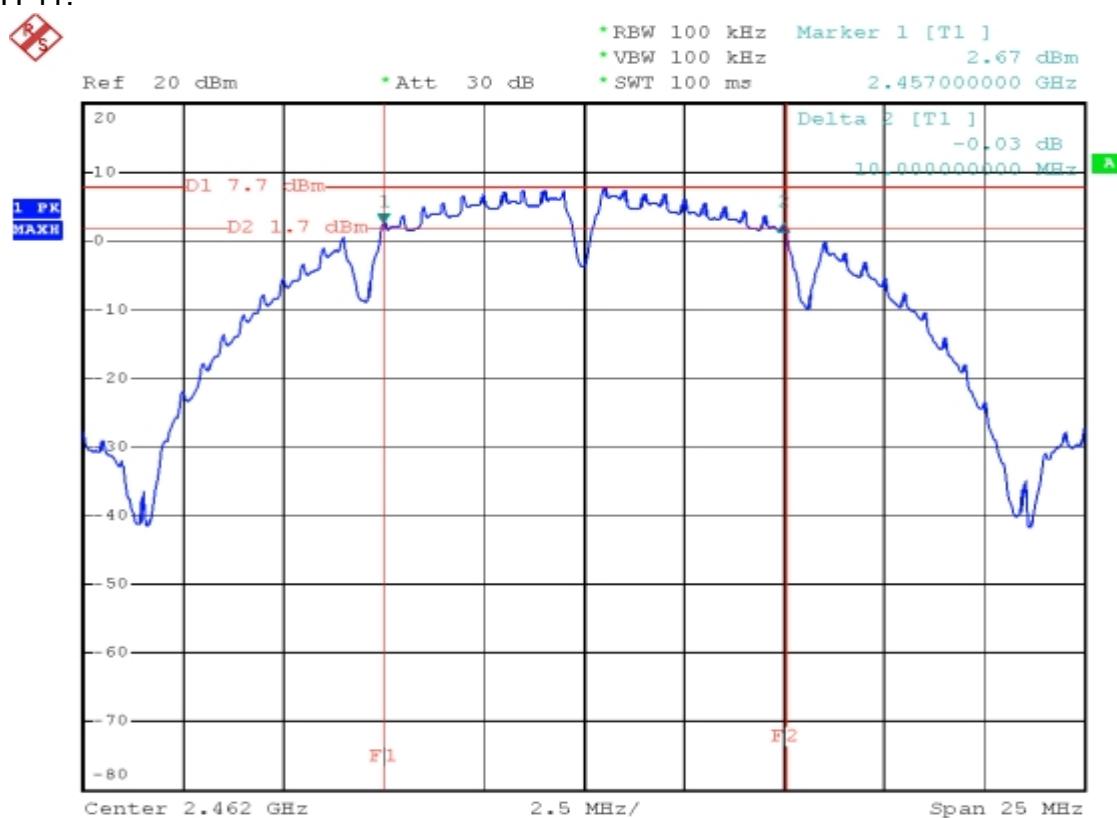
CH1:



CH 6:



CH 11:





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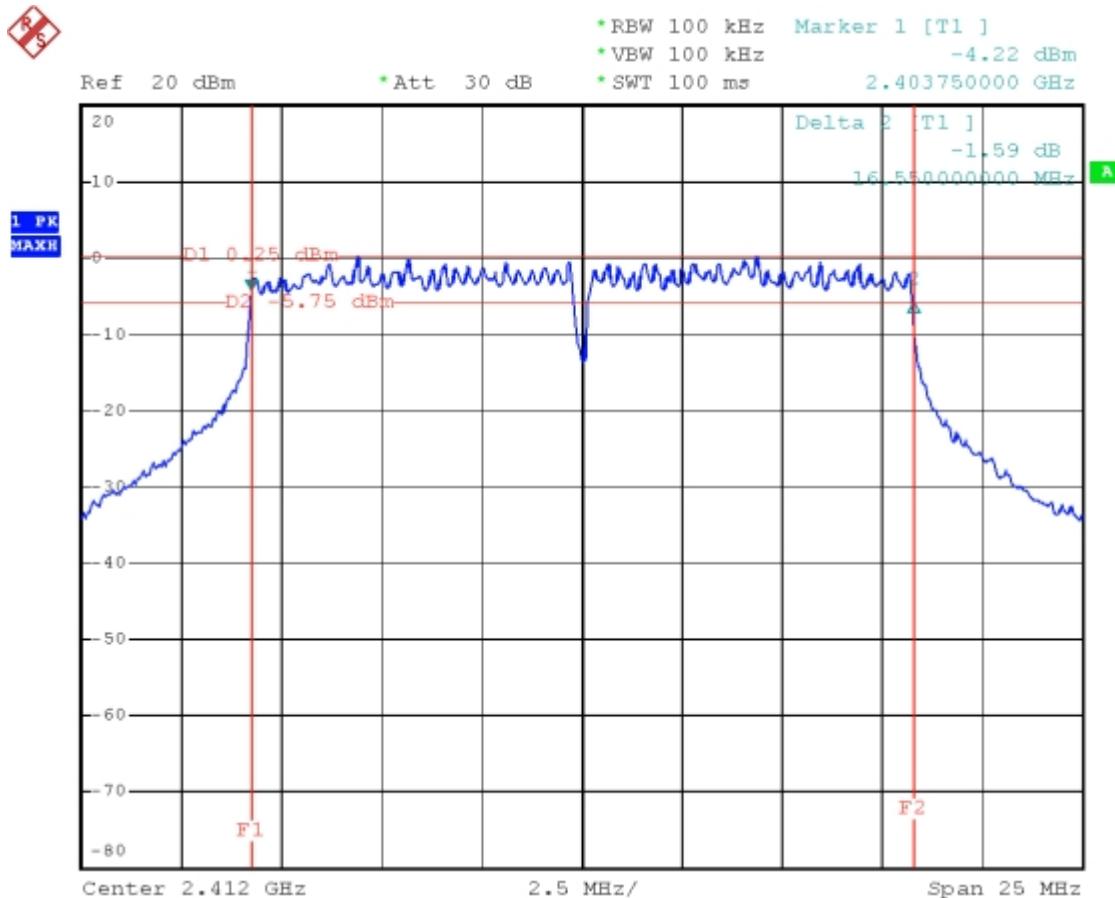
TEST REPORT

Reference No.: A10101501
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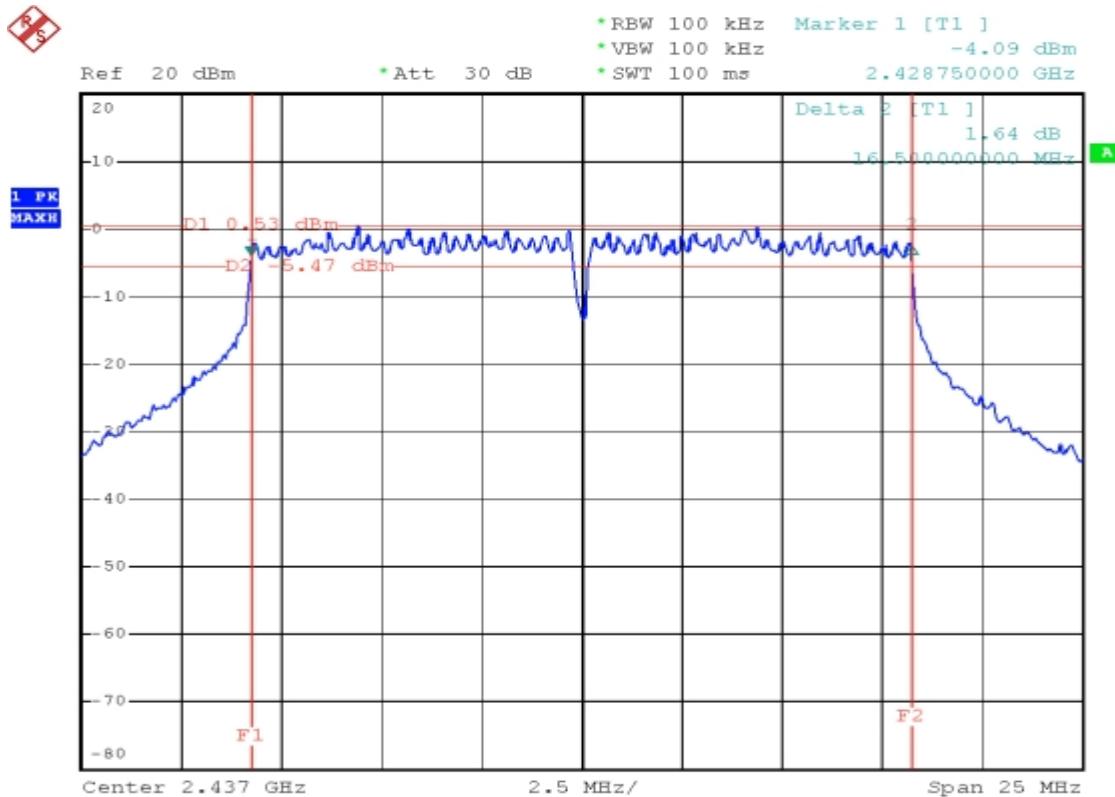
Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 g
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	6dB DOWN BW (MHz)
1	2412	16.55
6	2437	16.50
11	2462	16.50

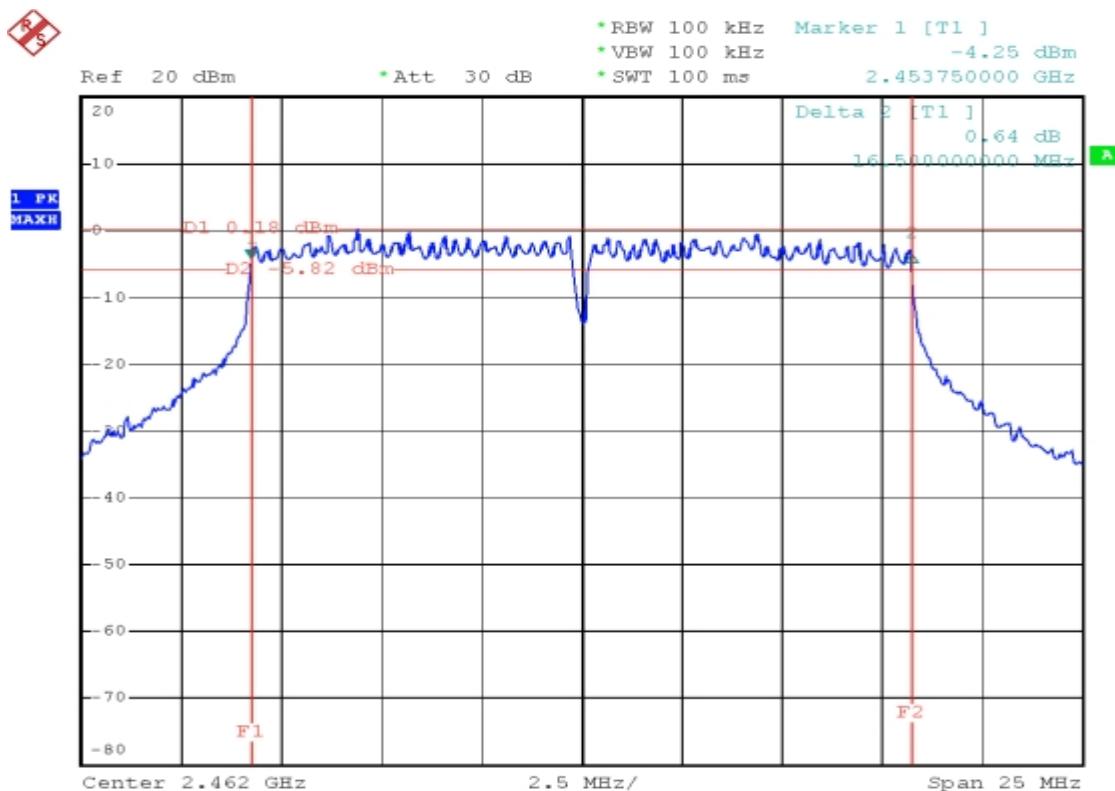
CH1:



CH 6:



CH 11:





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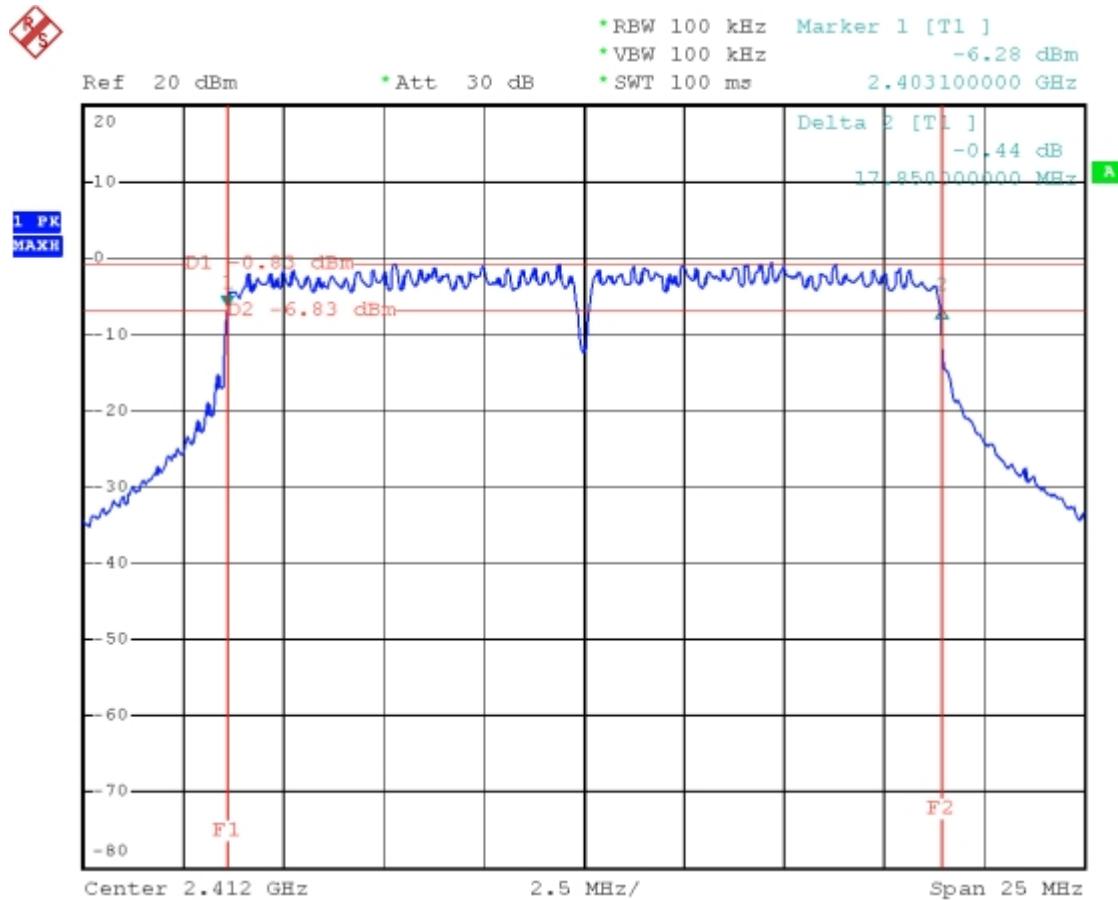
TEST REPORT

Reference No.: A10101501
Report No.: FCCA10101501
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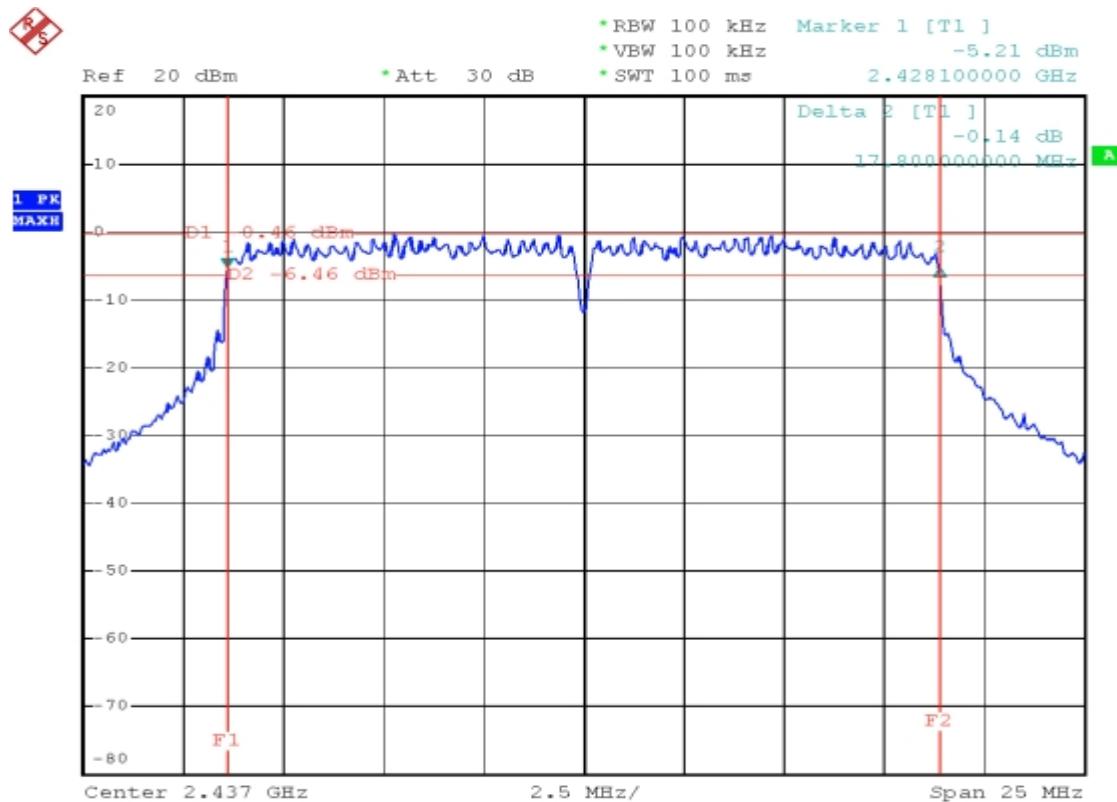
Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 n (20M)
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	6dB DOWN BW (MHz)
1	2412	17.75
6	2437	17.80
11	2462	17.75

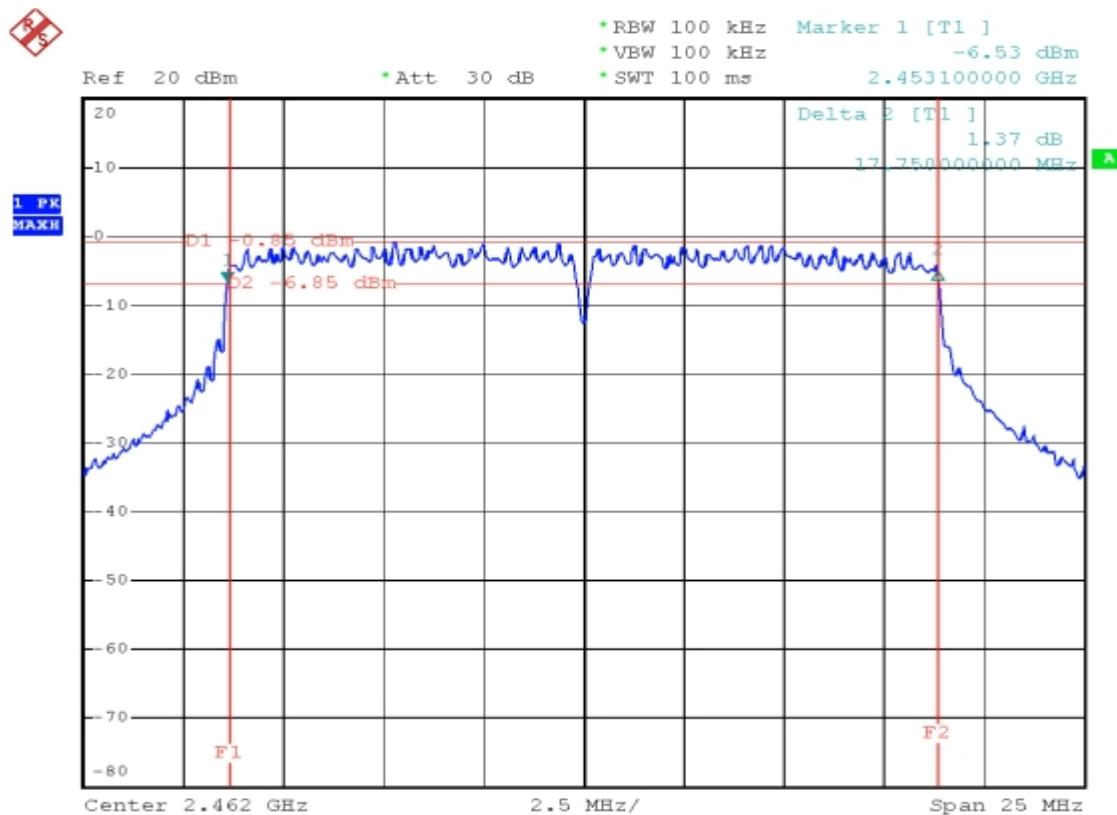
CH1:



CH 6:



CH 11:





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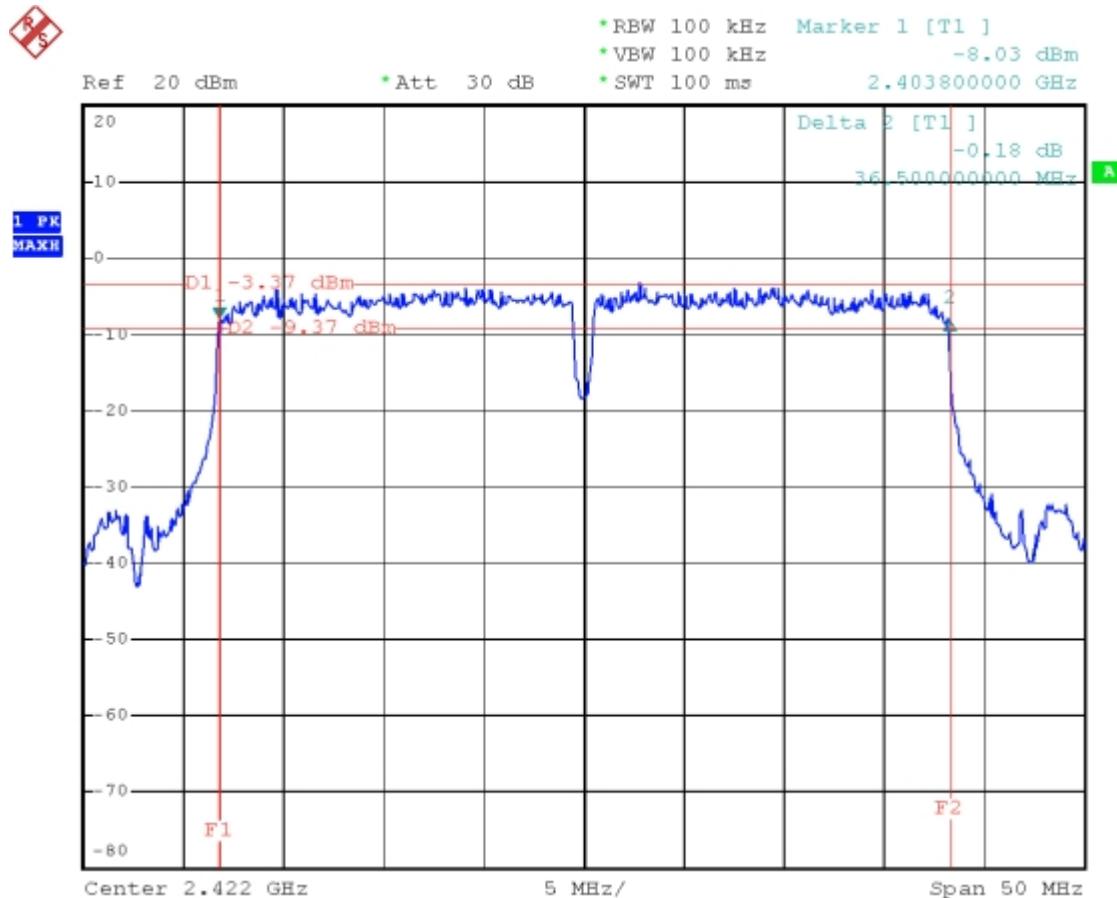
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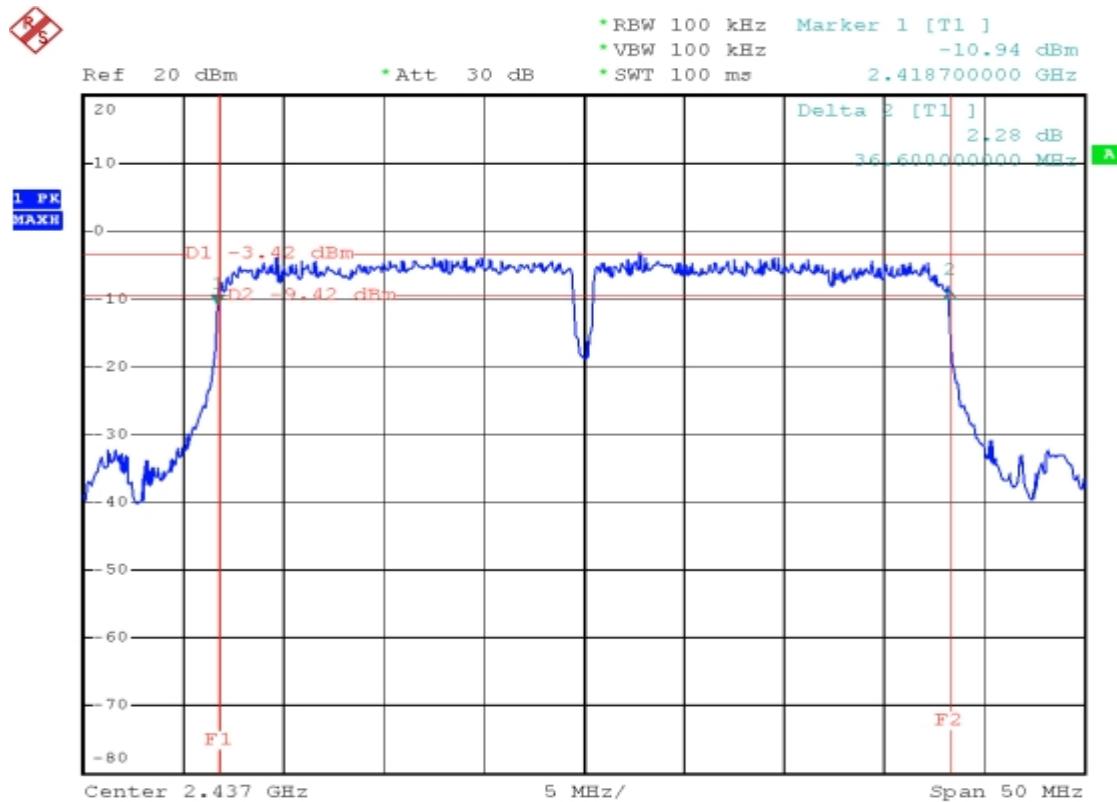
Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 n (40M)
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	6dB DOWN BW (MHz)
1	2422	36.50
4	2437	36.60
7	2452	36.60

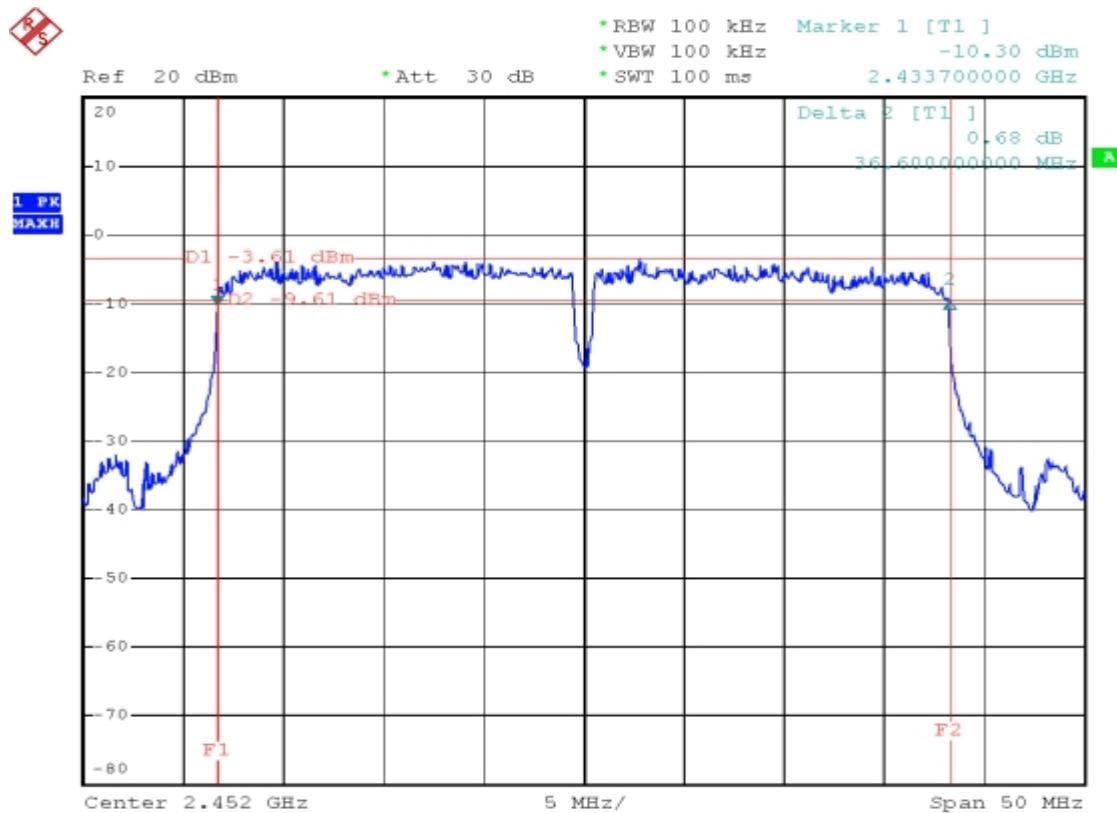
CH1:



CH 4:



CH 7:



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4.4 PEAK POWER TEST

4.4.1 LIMIT FCC Part15, Subpart C Section 15.247.

Frequency Range (MHz)	Limit(w)				
	Quantity of Hopping Channel	50	25	15	75
902-928	1(30dBm)	0.125(21dBm)	NA	NA	NA
2400-2483.5	NA	NA	0.125(21dBm)	1(30dBm)	
5725-5850	NA	NA	NA	NA	1(30dBm)

4.4.2 TEST EQUIPMENT

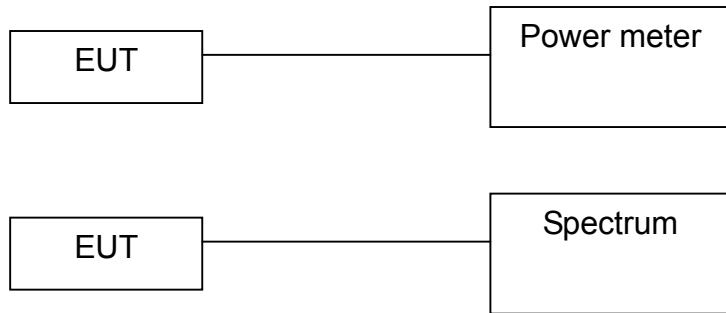
The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9K-40GHz	R&S	FSP40/ 100093	DEC. 2010 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

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4.4.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.4.4 TEST PROCEDURE

The EUT was operating in continuous transmission mode or could control its channel.
 Printed out the test result from the spectrum by hard copy function.
 Recorded the read value of the power meter.

4.4.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



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TEST REPORT

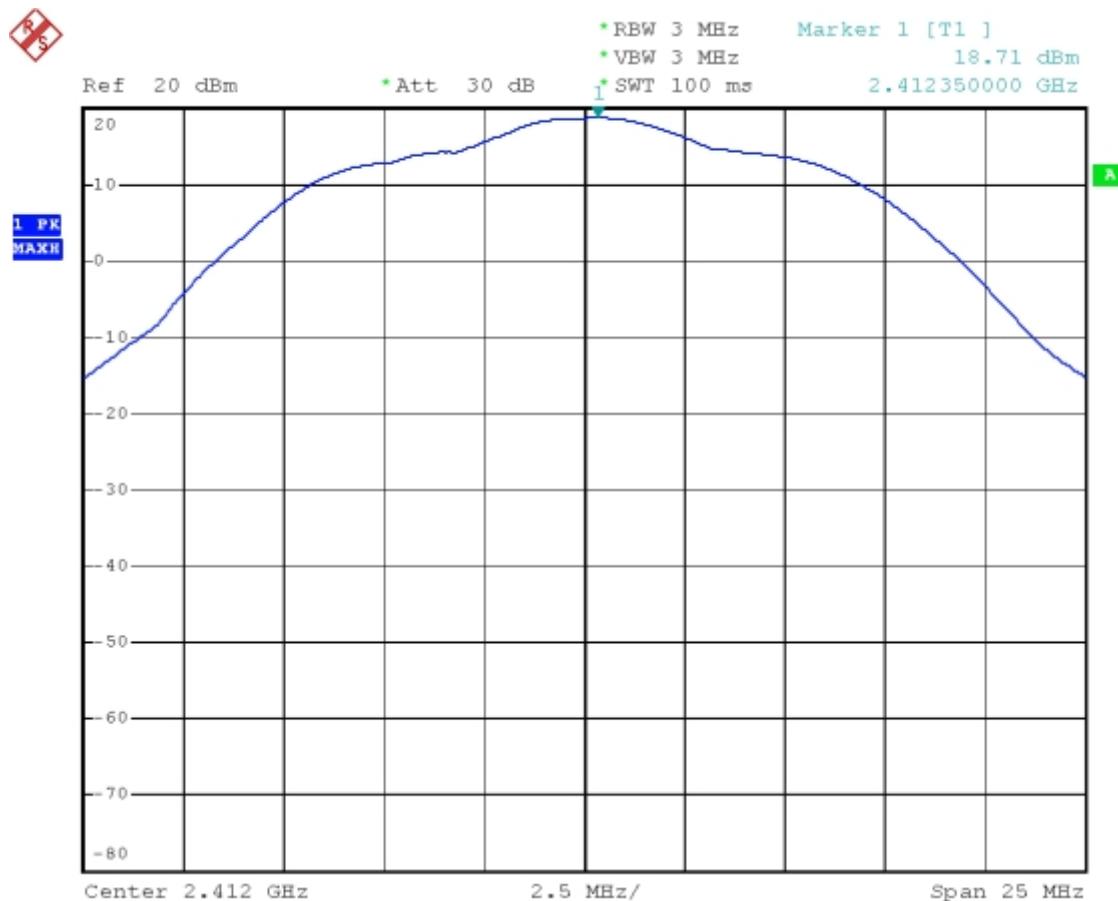
Reference No.: A10101501
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4.4.6 TEST RESULT

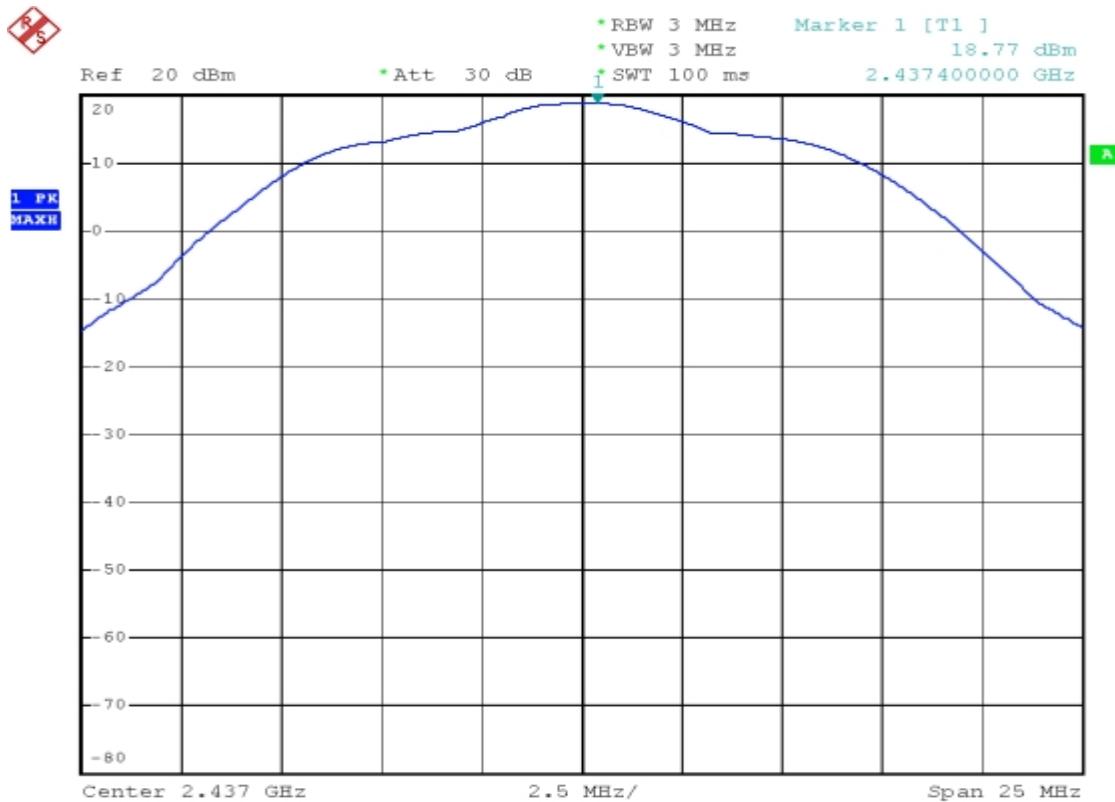
Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 b
Tested By:	Shunm Wang	Modulation Type:	DSSS

Channel Number	Channel Frequency (MHz)	Peak Output Power (dBm)	Peak Power Limit (dBm)
1	2412	18.17	30
6	2437	18.77	30
11	2462	18.24	30

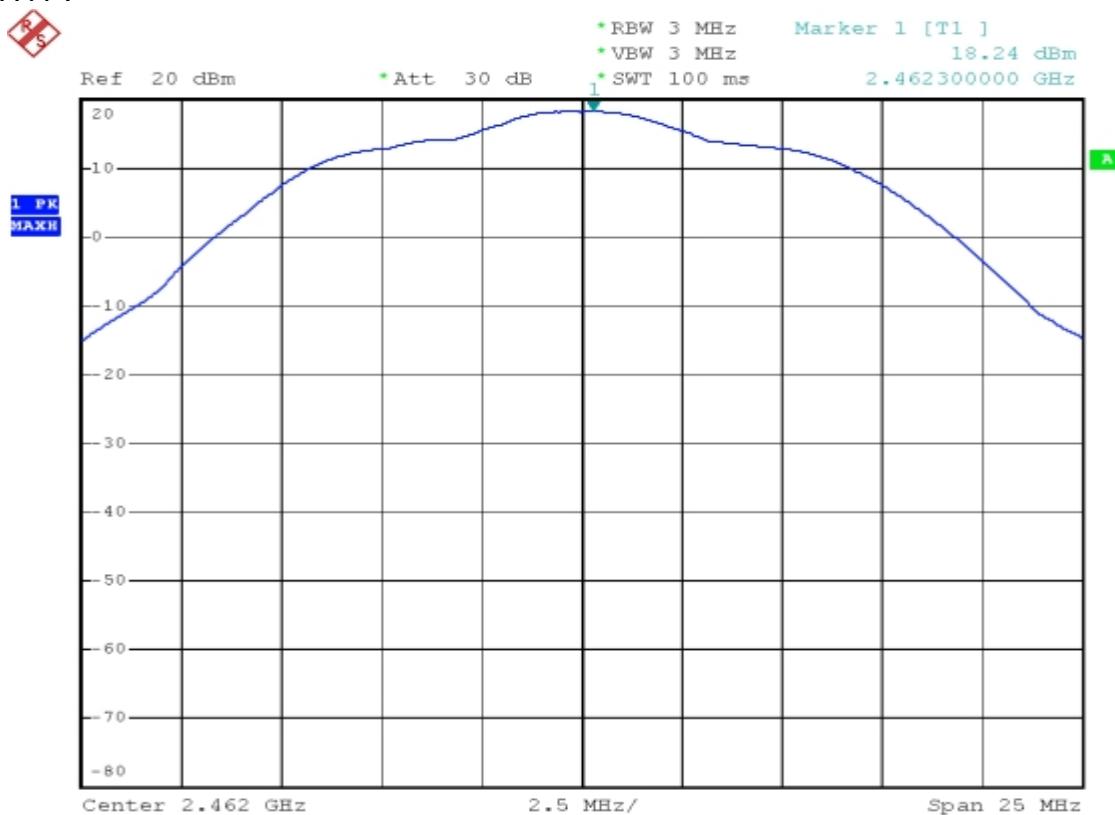
CH1 :



CH6 :



CH11 :





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TEST REPORT

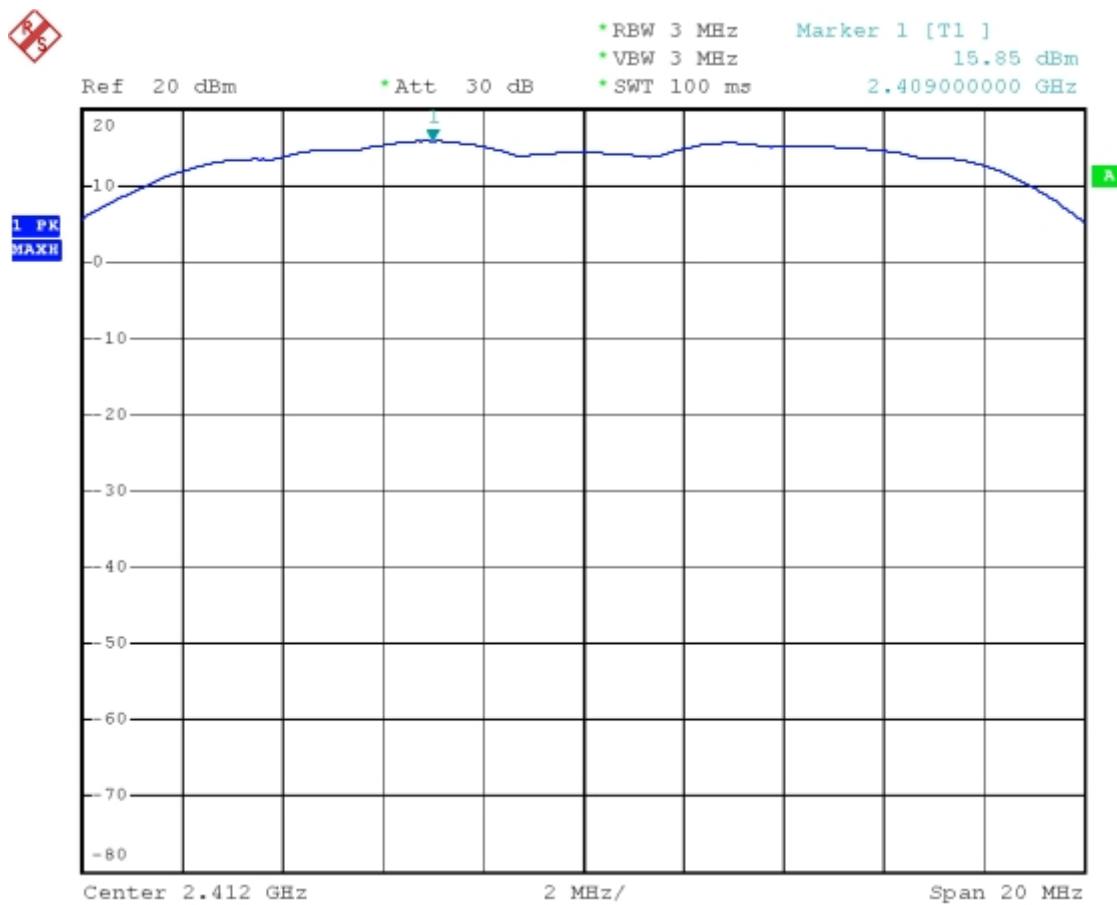
Reference No.: A10101501
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Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 g
		Modulation Type:	OFDM

Tested By: Shunm Wang Tested Date: Oct. 26, 2010

Channel Number	Channel Frequency (MHz)	Peak Output Power (dBm)	Peak Power Limit (dBm)
1	2412	15.85	30
6	2437	16.14	30
11	2462	15.66	30

CH1 :

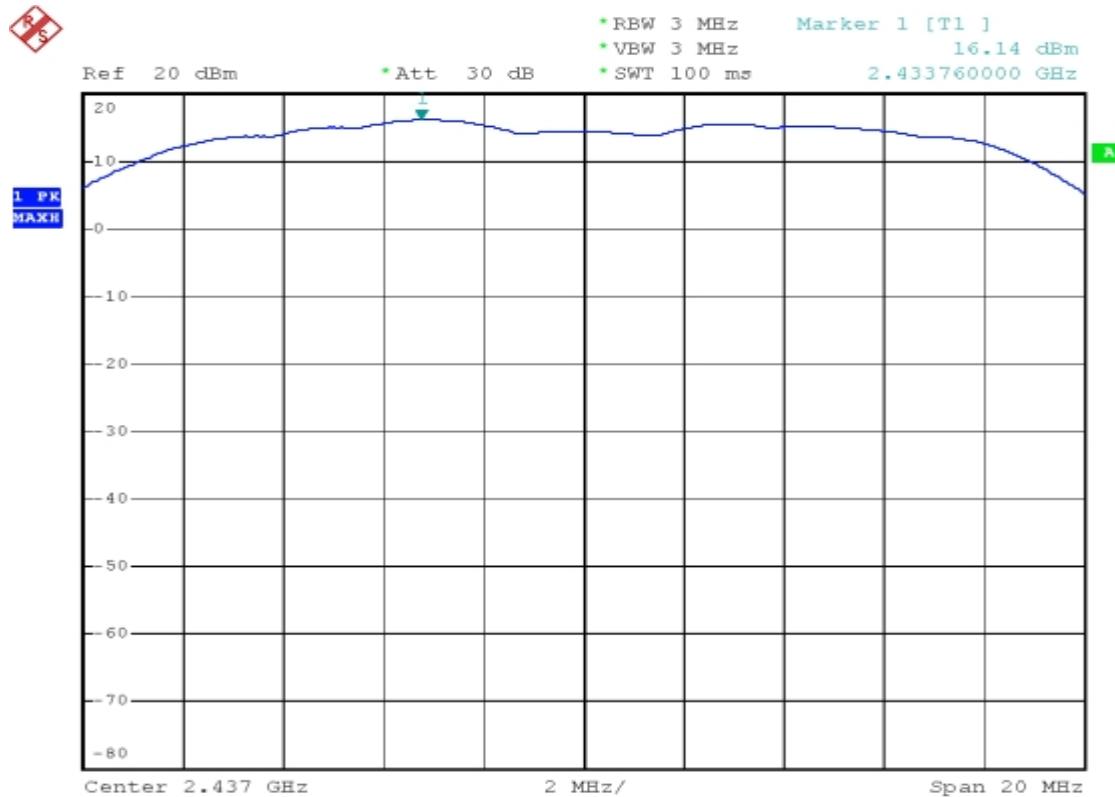




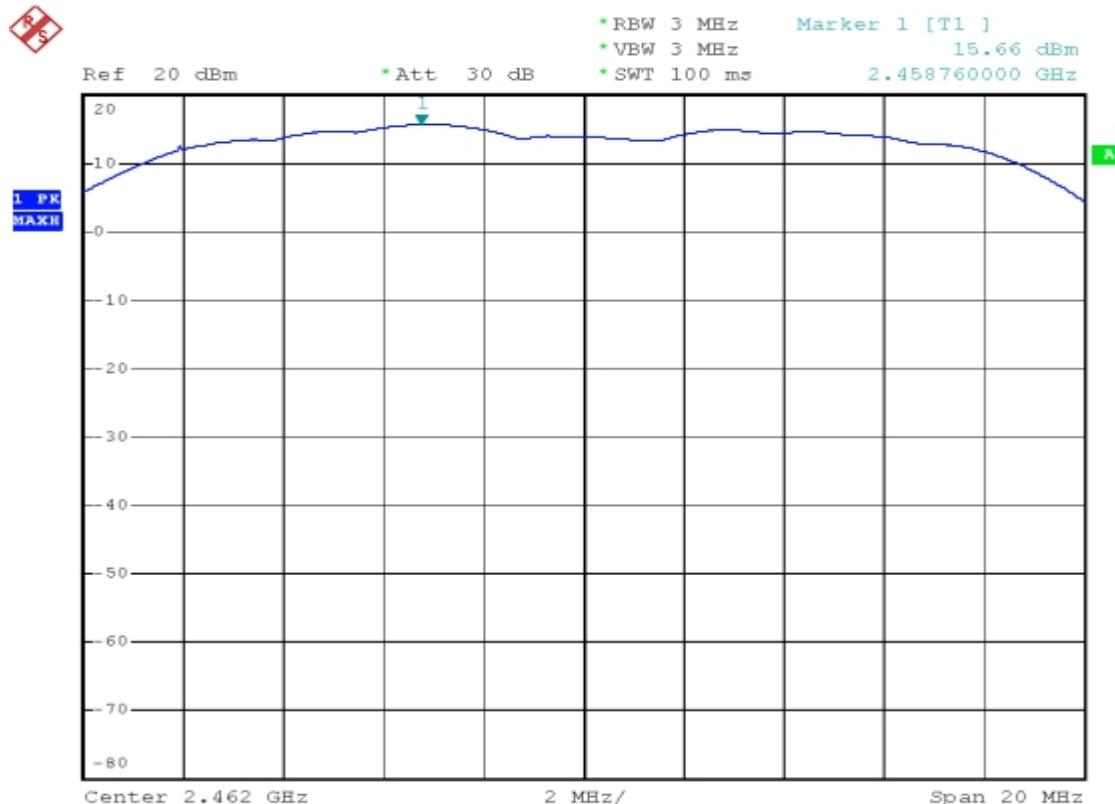
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CH6 :



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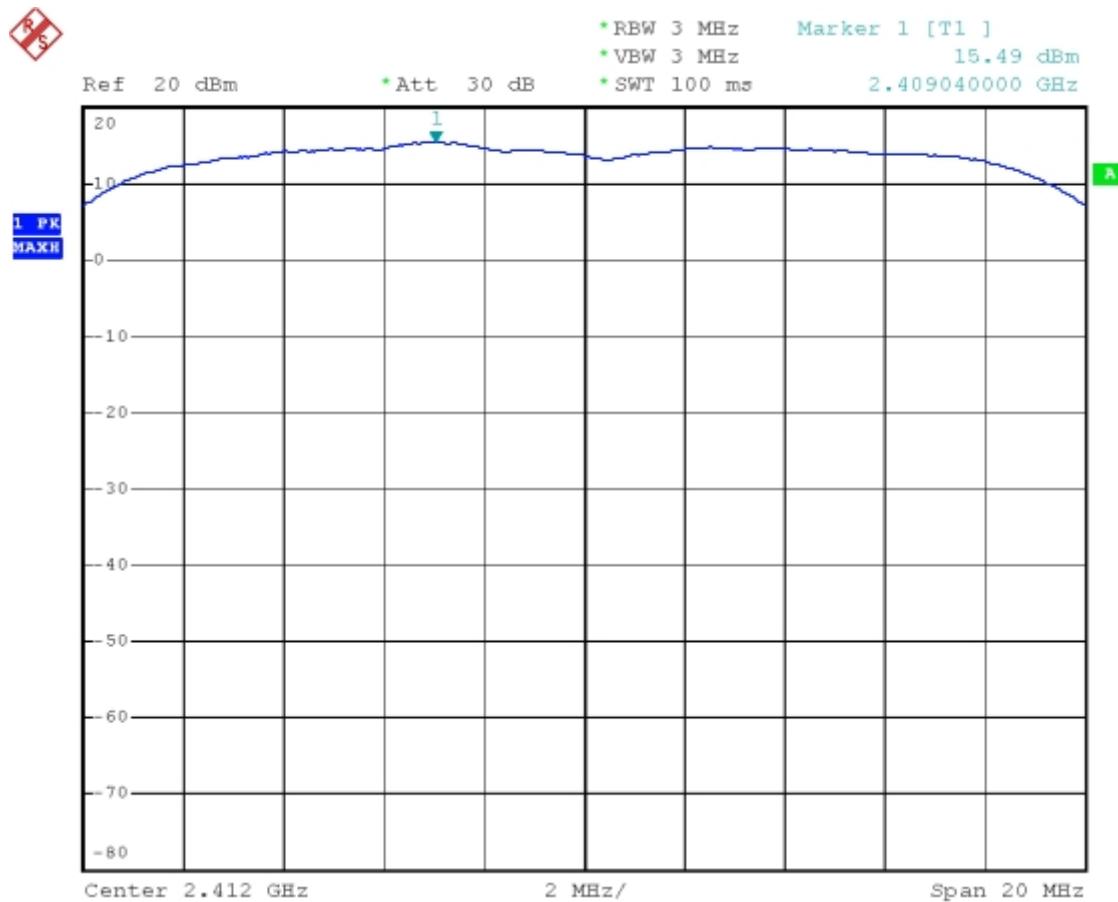
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Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 n (20M)
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

Channel Number	Channel Frequency (MHz)	Peak Output Power (dBm)	Peak Power Limit (dBm)
1	2412	15.49	30
6	2437	15.54	30
11	2462	15.13	30

CH1 :

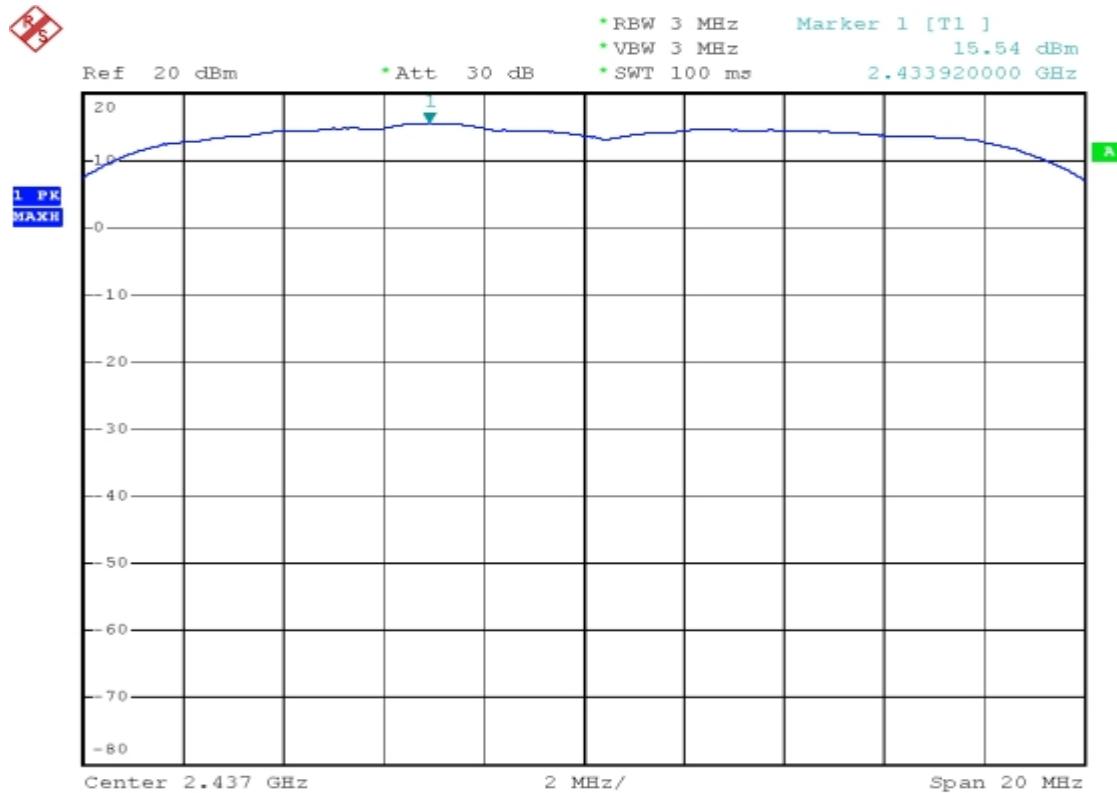




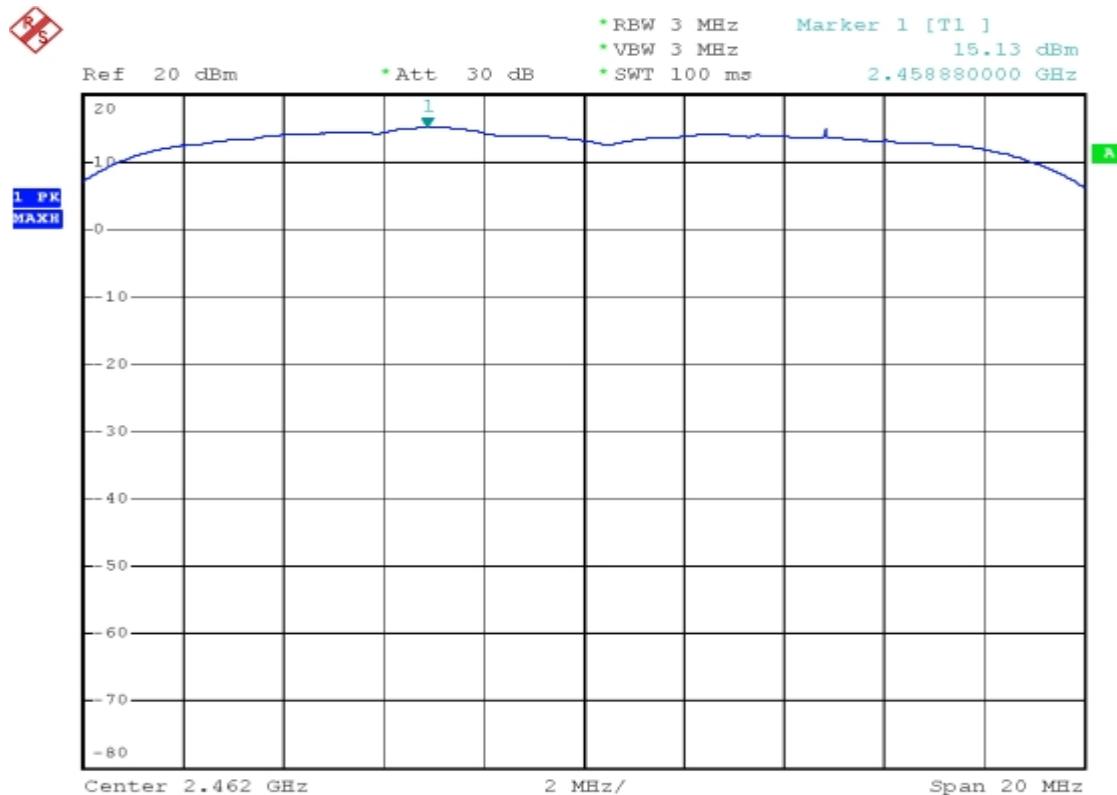
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CH11 :





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TEST REPORT

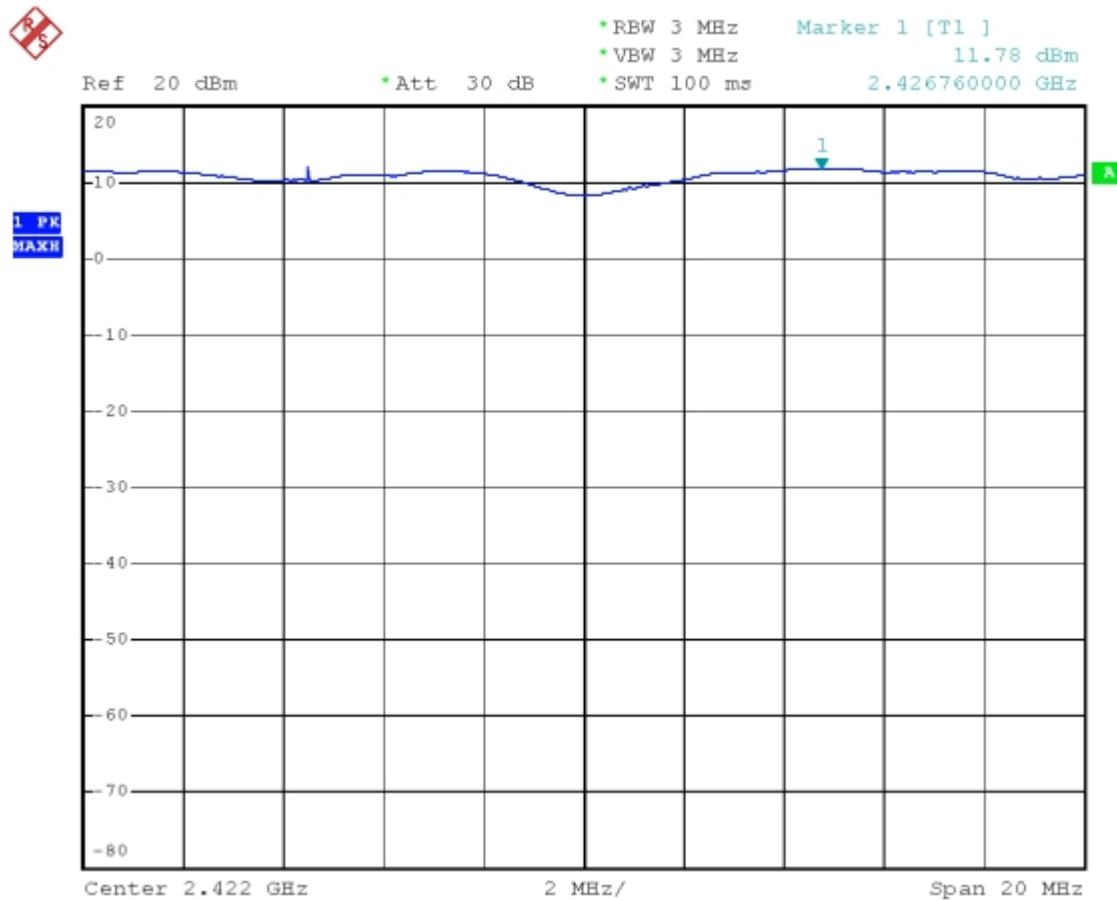
Reference No.: A10101501
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Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 n (40M)
		Modulation Type:	OFDM

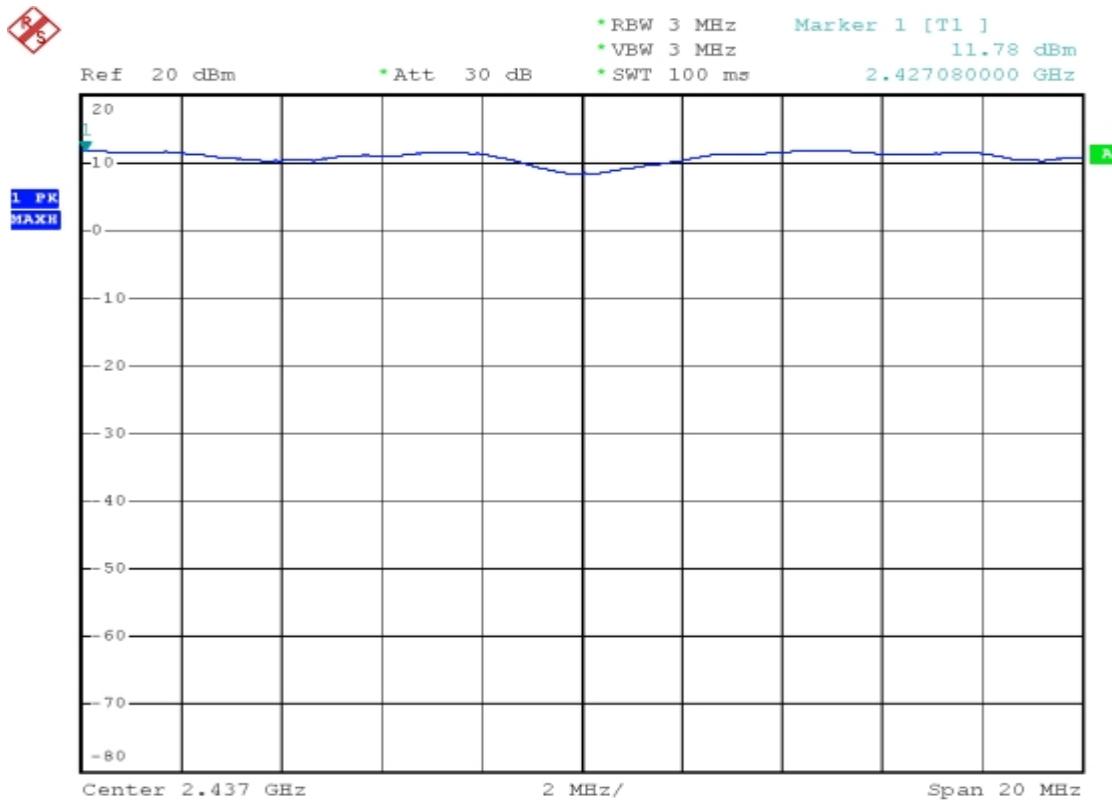
Tested By: Shunm Wang Tested Date: Oct. 26, 2010

Channel Number	Channel Frequency (MHz)	Peak Output Power (dBm)	Peak Power Limit (dBm)
1	2412	11.78	30
6	2437	11.78	30
11	2462	11.67	30

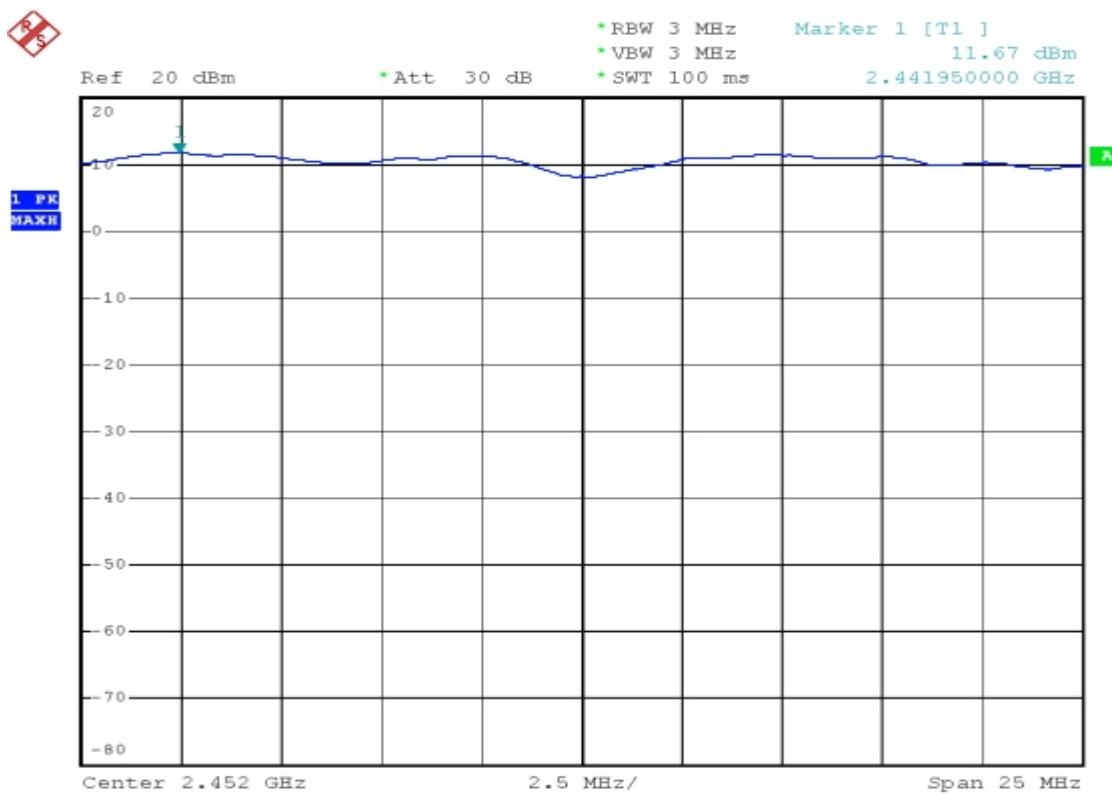
CH1 :



CH6 :



CH11 :



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4.5 BAND EDGE TEST

4.5.1 LIMIT

FCC Part15, Subpart C Section 15.247. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 15.205(c)).

OPERATING FREQUENCY RANGE (MHz)	SPURIOUS EMISSION FREQUENCY (MHz)	LIMIT	
		Peak power ration to emission(dBc)	Emission level(dBuV/m)
902 - 928	<902	>20	NA
	>928	>20	NA
	960-1240	NA	54
2400 - 2483.5	<2400	>20	NA
	>2483.5-2500	NA	54
5725 - 5850	<5350-5460	NA	54
	<5725	>20	NA
	>5850	>20	NA

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4.5.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9K-40GHz	R&S	FSP40/ 100093	DEC. 2010 ETC
PRE-AMPLIFIER	1 GHz TO 26.5 GHz	HP	8449B/ 3008A01995	JAN. 2011 ETC
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 6881	NOV. 2010 ETC
K-TYPE CABLE	15M	HUBER SUHNER	SF 102-40/2*11/ 23932/2	MAY. 2011 ETC
K-TYPE CABLE	1M	HUBER SUHNER	SF 102-40/2*11/ 23934/2	NOV. 2010 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



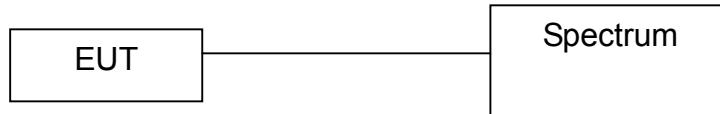
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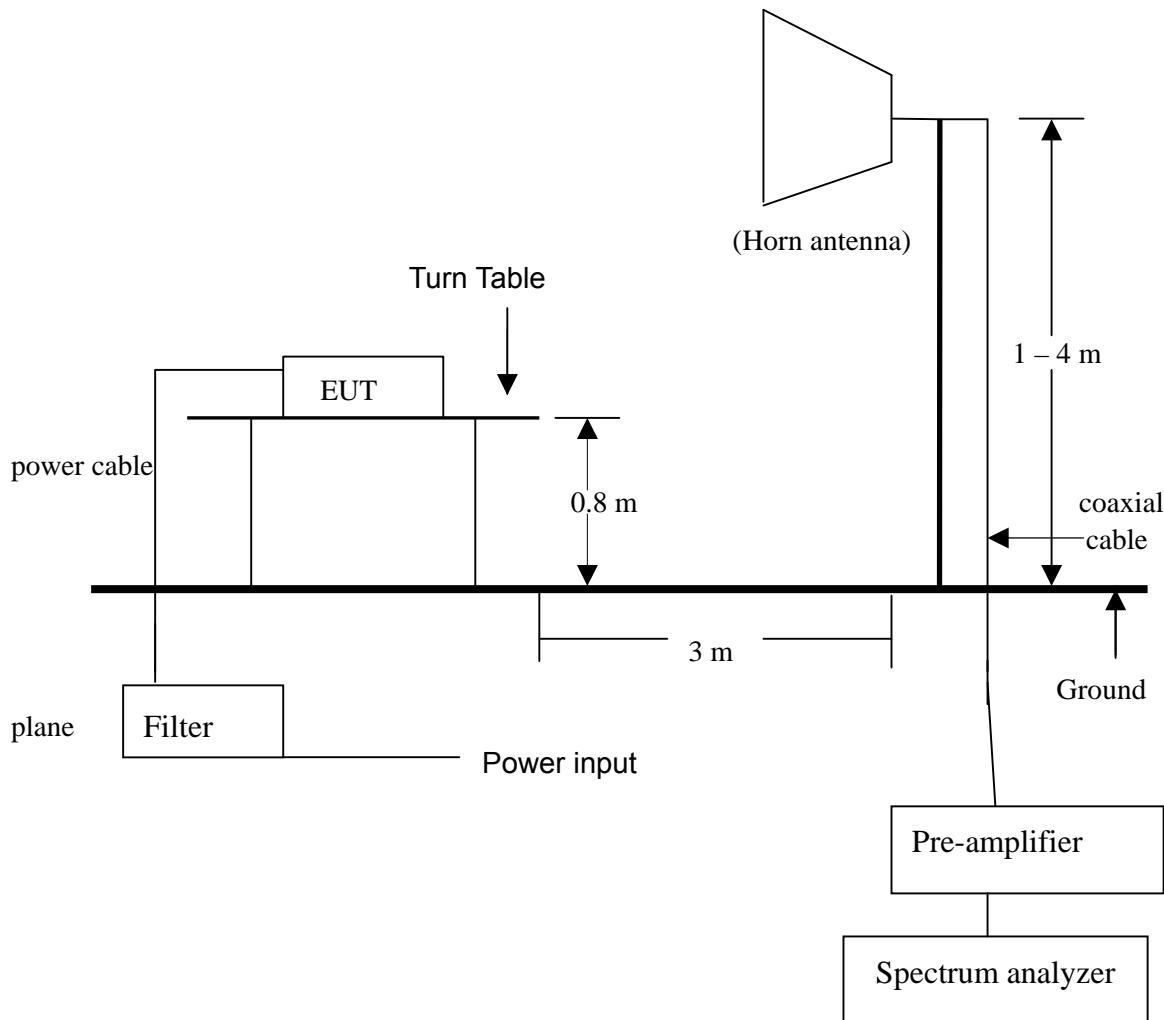
4.5.3 TEST SET-UP

FOR RF CONDUCTED TEST (dBc)



The EUT was connected to a spectrum through a 50Ω RF cable.

FOR RADIATED EMISSION TEST



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

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4.5.4 TEST PROCEDURE

1. The EUT was operating in continuous transmission mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.
2. The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

4.5.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.

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4.5.6 TEST RESULT

Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK. & AV.	Tested Mode:	802.11 b
		Modulation Type:	DSSS
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

1. Conducted test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read		Result of Band edge (dBc)	Band edge LIMIT (dBc)
		Value(dBm)	(dBc)		
<2.3999	7.65	-29.25		36.9	>20dBc
>2.4835	7.42	-44.74		52.16	>20dBc

2. Radiated emission test

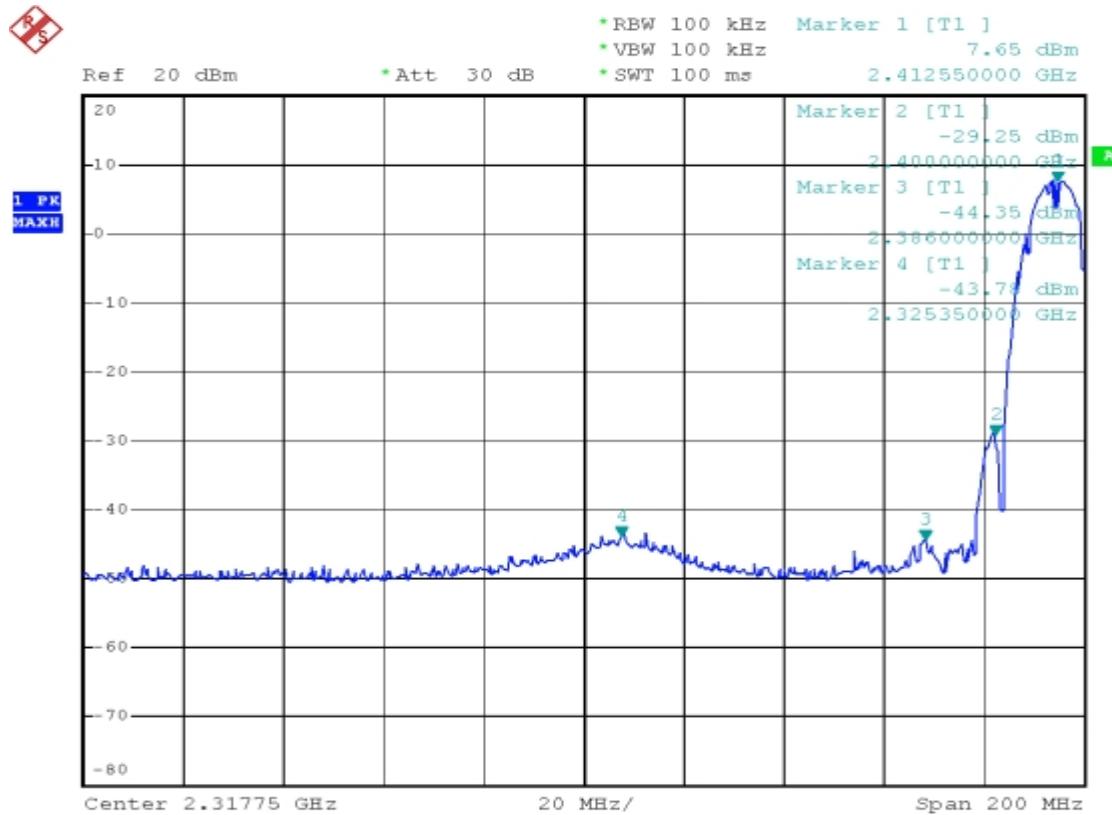
Frequency (MHz)	Correct Factor (dB)	Ant. Fac. (dB)	Ant. Pol. (H/V)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Over Limit (dBuV/m)	
				PK	AV	PK	AV	PK	AV	PK	AV
2386.00	-22.74	28.07	H	50.1	43.2	55.4	48.5	74.0	54.0	-18.6	-5.5
2325.35	-22.93	27.95	H	49.2	41.8	54.2	46.8	74.0	54.0	-19.8	-7.2
2483.50	-22.45	28.27	H	47.3	36.2	53.1	42.0	74.0	54.0	-20.9	-12.0
2488.15	-22.44	28.28	H	52.2	45.0	58.0	50.8	74.0	54.0	-16.0	-3.2
2386.00	-22.74	28.07	V	50.3	43.5	55.6	48.8	74.0	54.0	-18.4	-5.2
2325.35	-22.93	27.95	V	49.5	42.1	54.5	47.1	74.0	54.0	-19.5	-6.9
2483.50	-22.45	28.27	V	47.6	36.5	53.4	42.3	74.0	54.0	-20.6	-11.7
2488.15	-22.44	28.28	V	52.6	45.3	58.4	51.1	74.0	54.0	-15.6	-2.9



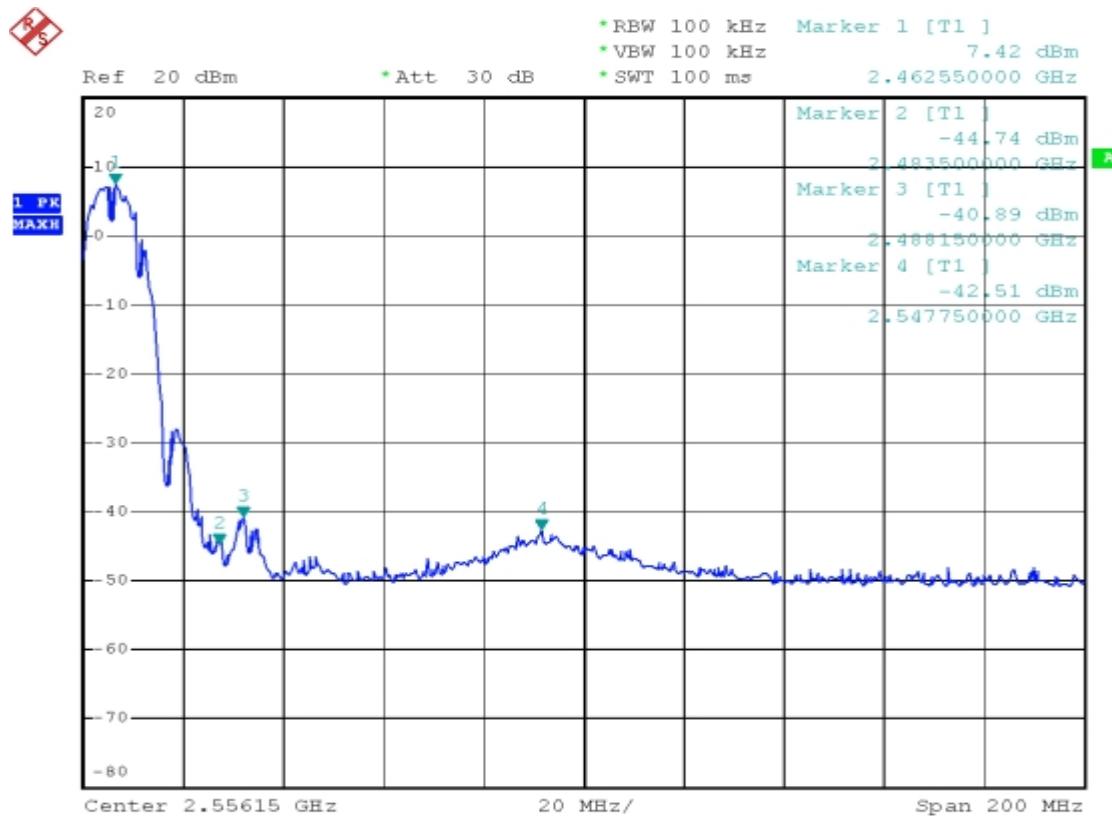
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CH11:



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Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK. & AV.	Tested Mode:	802.11 g
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

1. Conducted test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read Value(dBm)	Result of Band edge (dBc)	Band edge LIMIT (dBc)
<2.3999	0.14	-32.14	32.28	>20dBc
>2.4835	0.09	-44.72	44.81	>20dBc

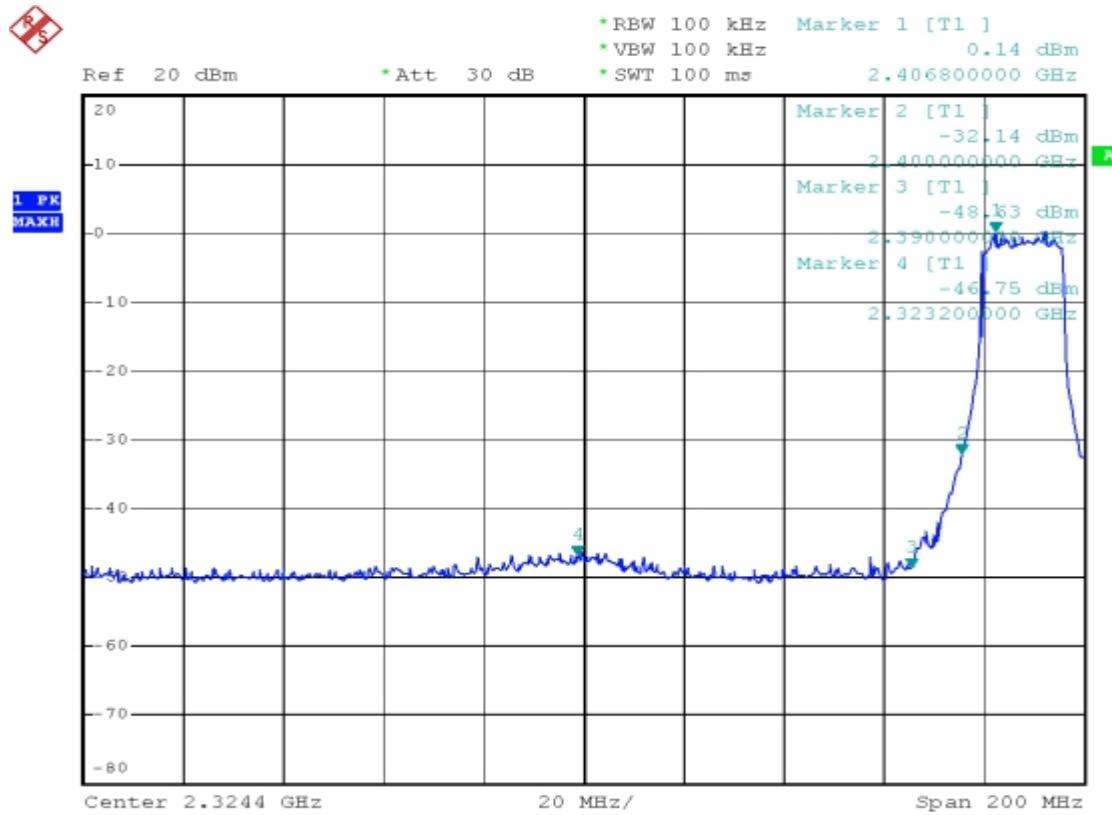
2. Radiated emission test

Frequency (MHz)	Correct Factor (dB)	Ant. Fac. (dB)	Ant. Pol. (H/V)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Over Limit (dBuV/m)	
				PK	AV	PK	AV	PK	AV	PK	AV
2390.00	-22.73	28.08	H	47.3	36.2	52.7	41.6	74.0	54.0	-21.4	-12.5
2323.20	-22.93	27.95	H	49.5	38.5	54.5	43.5	74.0	54.0	-19.5	-10.5
2483.50	-22.45	28.27	H	48.3	37.4	54.1	43.2	74.0	54.0	-19.9	-10.8
2552.10	-22.28	28.49	H	45.2	34.1	51.4	40.3	74.0	54.0	-22.6	-13.7
2390.00	-22.73	28.08	V	47.6	36.7	53.0	42.1	74.0	54.0	-21.1	-12.0
2323.20	-22.93	27.95	V	49.9	38.9	54.9	43.9	74.0	54.0	-19.1	-10.1
2483.50	-22.45	28.27	V	48.6	37.8	54.4	43.6	74.0	54.0	-19.6	-10.4
2552.10	-22.28	28.49	V	45.7	34.6	51.9	40.8	74.0	54.0	-22.1	-13.2

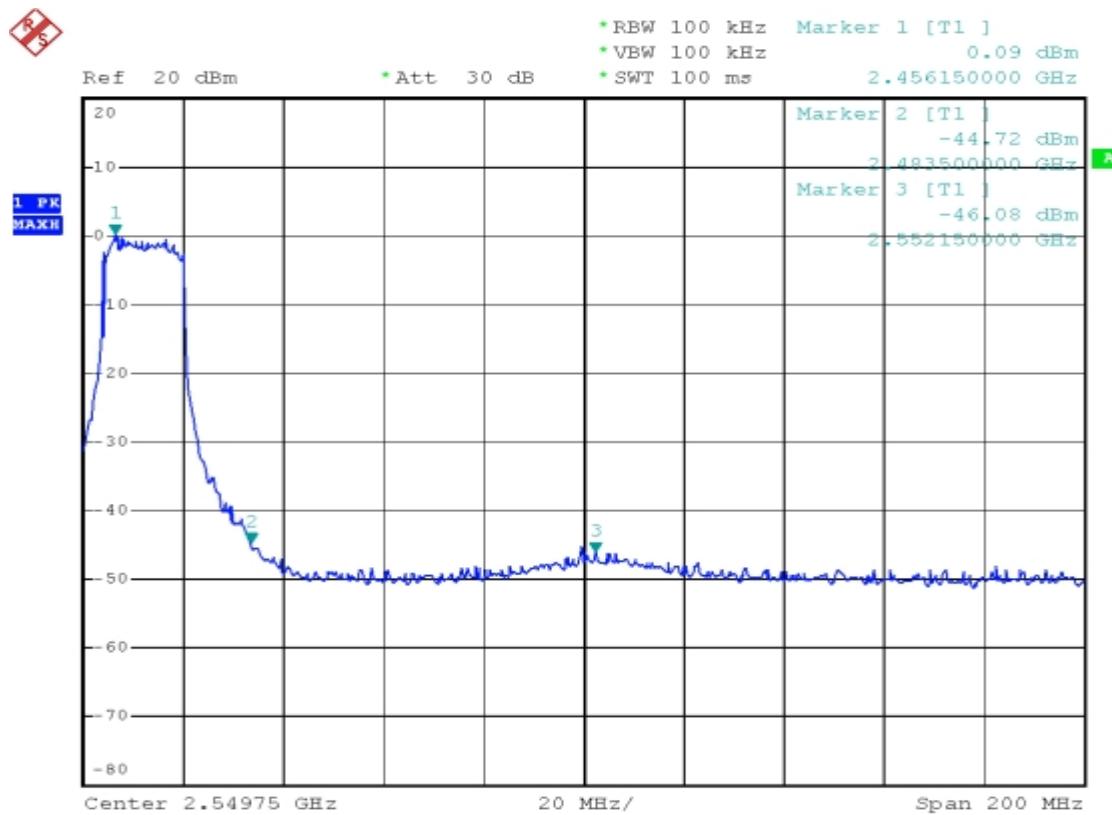
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Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK. & AV.	Tested Mode:	802.11 n (20M)
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

1. Conducted test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read Value(dBm)	Result of Band edge (dBc)	Band edge LIMIT (dBc)
<2.3999	-0.86	-33.56	32.70	>20dBc
>2.4835	-0.86	-44.06	43.2	>20dBc

2. Radiated emission test

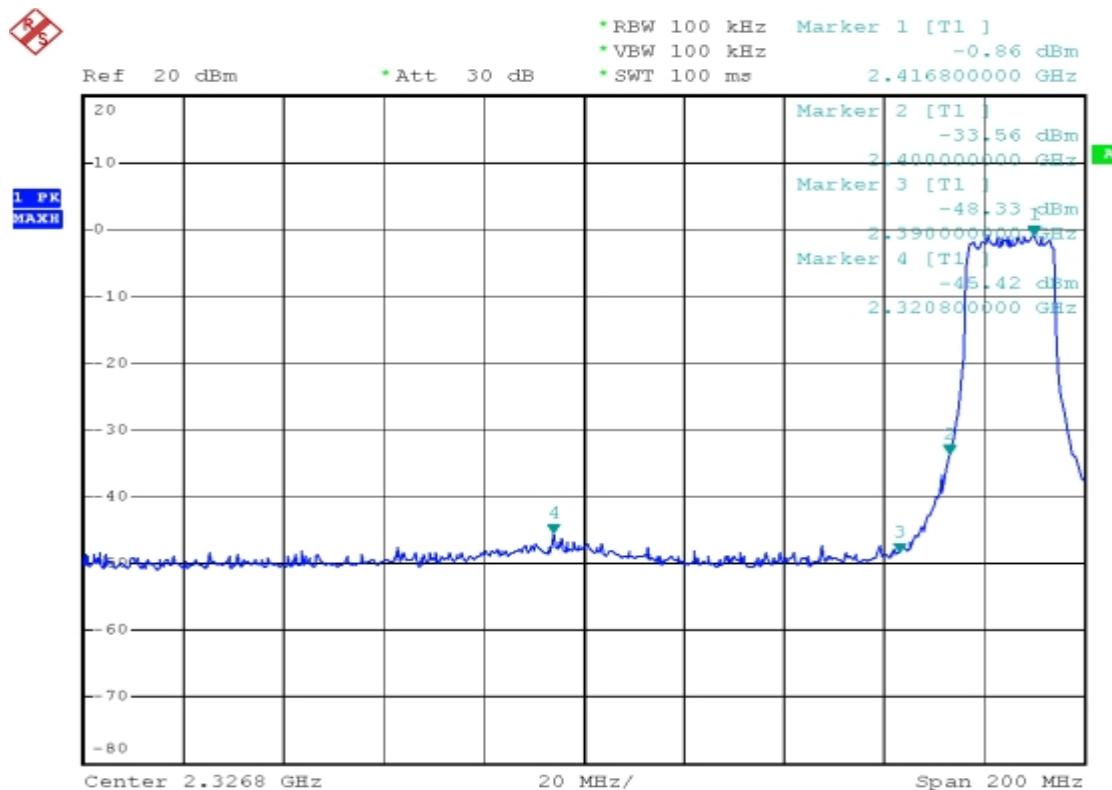
Frequency (MHz)	Correct Factor (dB)	Ant. Fac. (dB)	Ant. Pol. (H/V)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Over Limit (dBuV/m)	
				PK	AV	PK	AV	PK	AV	PK	AV
2390.00	-22.73	28.08	H	47.3	38.9	52.7	44.3	74.0	54.0	-21.4	-9.8
2320.80	-22.94	27.94	H	49.2	40.2	54.2	45.2	74.0	54.0	-19.8	-8.8
2483.50	-22.45	28.27	H	45.9	35.8	51.7	41.6	74.0	54.0	-22.3	-12.4
2550.00	-22.28	28.48	H	46.2	36.4	52.4	42.6	74.0	54.0	-21.6	-11.4
2390.00	-22.73	28.08	V	47.9	39.4	53.3	44.8	74.0	54.0	-20.8	-9.3
2320.80	-22.94	27.94	V	49.6	40.6	54.6	45.6	74.0	54.0	-19.4	-8.4
2483.50	-22.45	28.27	V	46.3	36.2	52.1	42.0	74.0	54.0	-21.9	-12.0
2550.00	-22.28	28.48	V	46.7	36.9	52.9	43.1	74.0	54.0	-21.1	-10.9



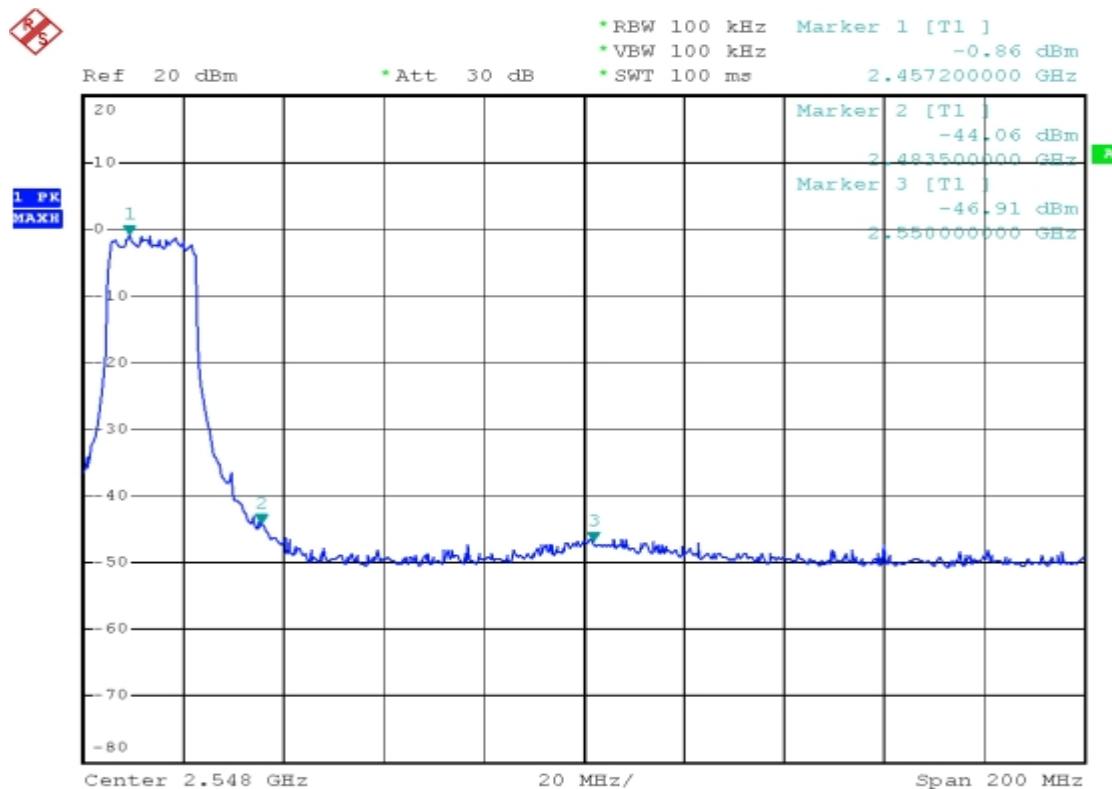
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Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK. & AV.	Tested Mode:	802.11 n (40M)
		Modulation Type:	OFDM
Tested By:	Shunm Wang	Tested Date:	Oct. 26, 2010

1. Conducted test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read Value(dBm)	Result of Band edge (dBc)	Band edge LIMIT (dBc)
<2.3999	-3.19	-39.94	36.75	>20dBc
>2.4835	-3.69	-40.75	44.44	>20dBc

2. Radiated emission test

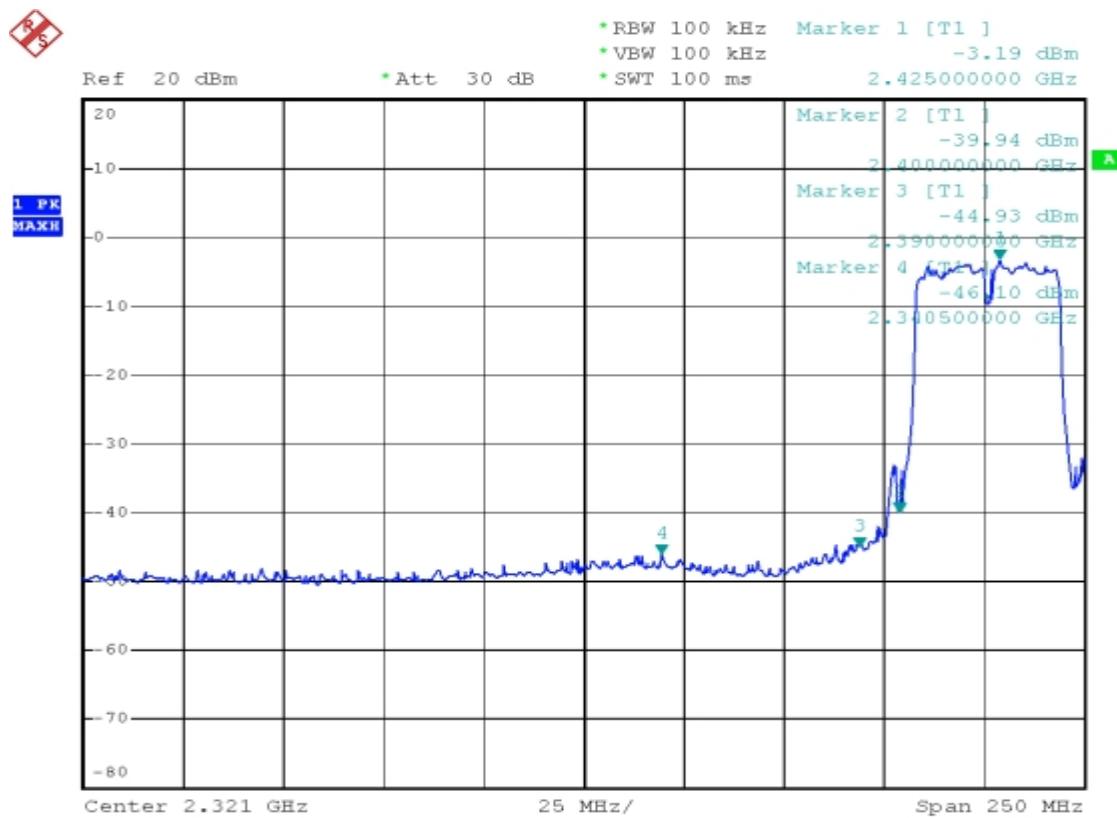
Frequency (MHz)	Correct Factor (dB)	Ant. Fac. (dB)	Ant. Pol. (H/V)	Reading (dBuV)		Emission (dBuV/m)		Limit Line (dBuV/m)		Over Limit (dBuV/m)	
				PK	AV	PK	AV	PK	AV	PK	AV
2390.00	-22.73	28.08	H	49.0	37.7	54.4	43.1	74.0	54.0	-19.7	-11.0
2340.50	-22.88	27.98	H	49.1	38.2	54.2	43.3	74.0	54.0	-19.8	-10.7
2483.50	-22.45	28.27	H	50.3	42.9	56.1	48.7	74.0	54.0	-17.9	-5.3
2533.00	-22.32	28.42	H	46.0	36.2	52.1	42.3	74.0	54.0	-21.9	-11.7
2390.00	-22.73	28.08	V	49.6	38.4	55.0	43.8	74.0	54.0	-19.1	-10.3
2340.50	-22.88	27.98	V	49.9	38.8	55.0	43.9	74.0	54.0	-19.0	-10.1
2483.50	-22.45	28.27	V	50.8	43.4	56.6	49.2	74.0	54.0	-17.4	-4.8
2533.00	-22.32	28.42	V	46.7	36.8	52.8	42.9	74.0	54.0	-21.2	-11.1



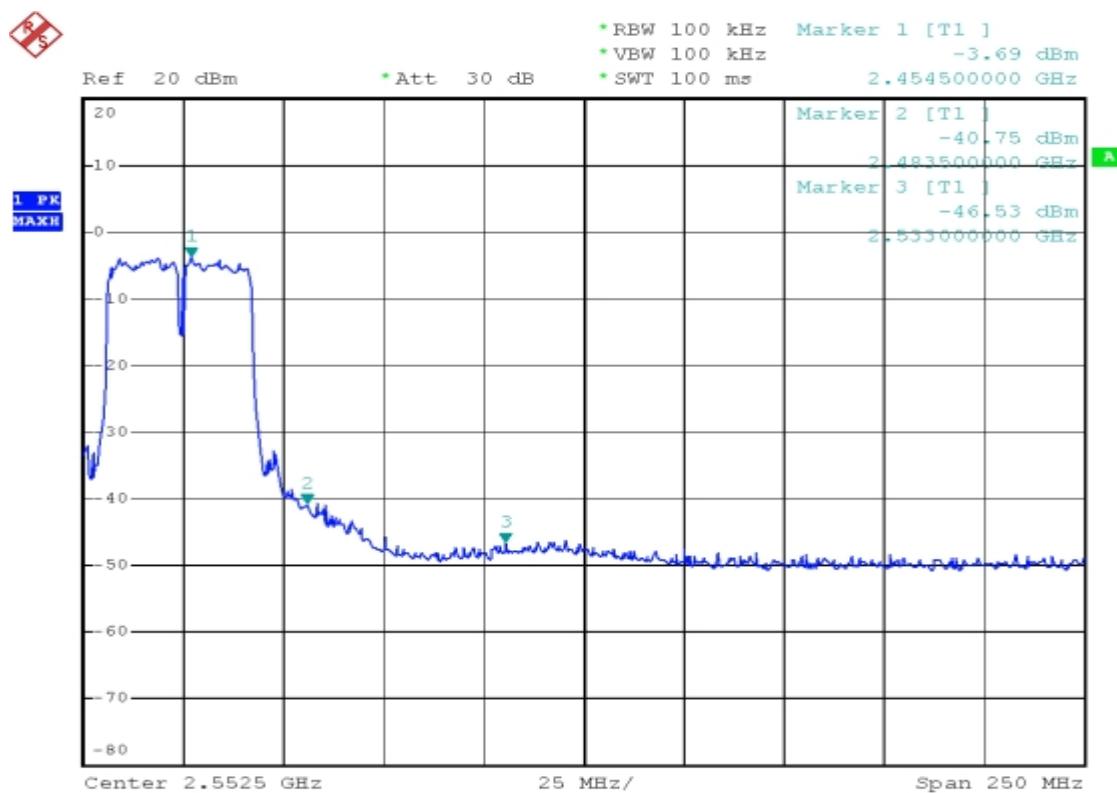
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CH1 :



CH7:



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4.6 POWER DENSITY TEST

4.6.1 LIMIT

FCC Part15, Subpart C Section 15.247

FREQUENCY RANGE (MHz)	Limit(dBm/kHz)
902-928	
2400-2483.5	8dBm/3kHz
5725-5850	

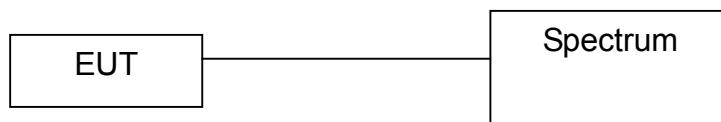
4.6.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9K-40GHz	R&S	FSP40/ 100093	DEC. 2010 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.6.4 TEST PROCEDURE

The EUT was operating in transmitter mode and could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.

4.6.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



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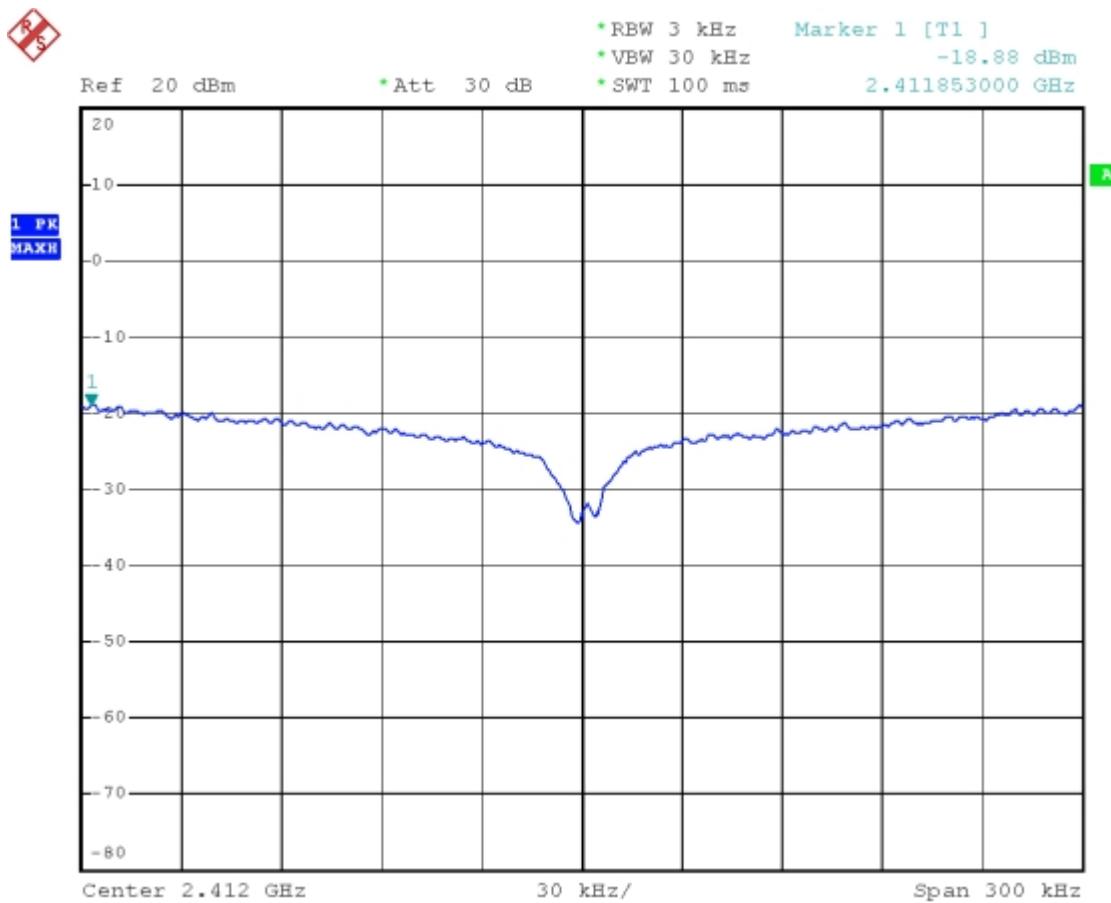
4.6.6 TEST RESULT

Temperature:	22°C	Humidity:	65%RH
Spectrum Detector:	PK.	Tested Mode:	802.11 b
		Modulation Type:	DSSS

Tested By: Shunm Wang Tested Date: Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm/3kHz)	MAXIMUM LIMIT (dBm/3kHz)
1	2412	-18.88	8
6	2437	-18.37	8
11	2462	-18.78	8

CH 1:

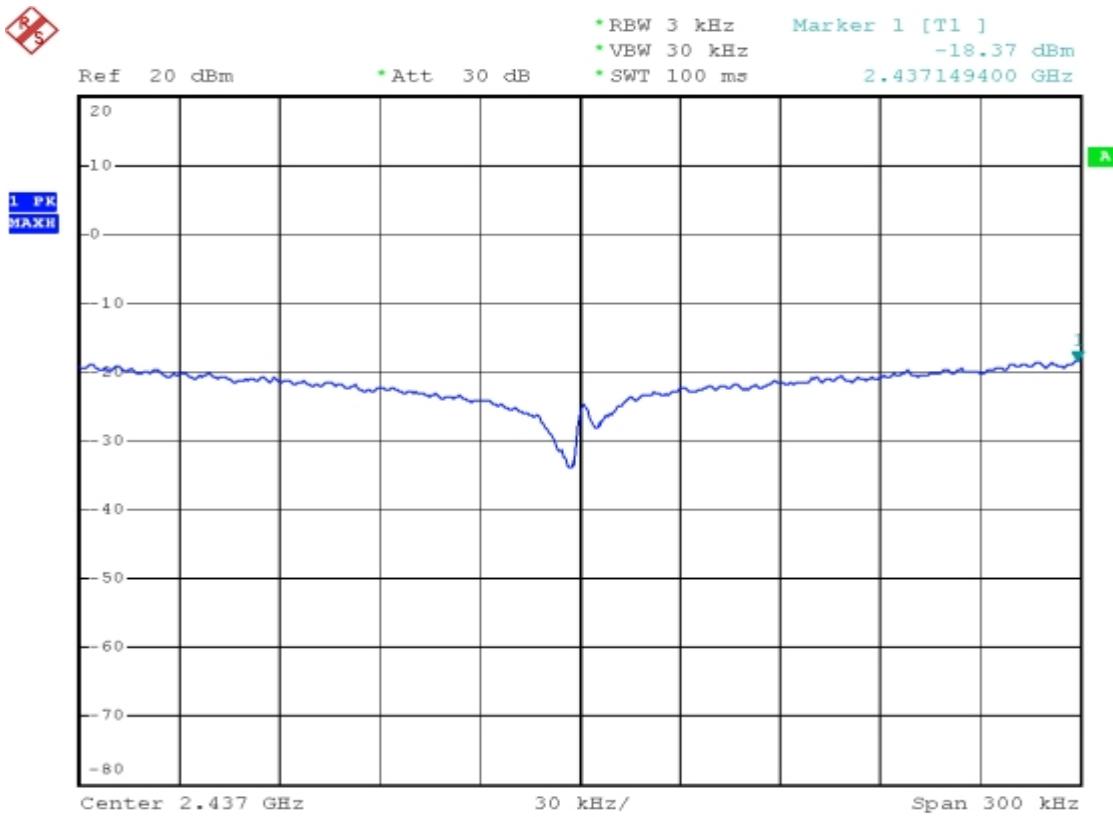




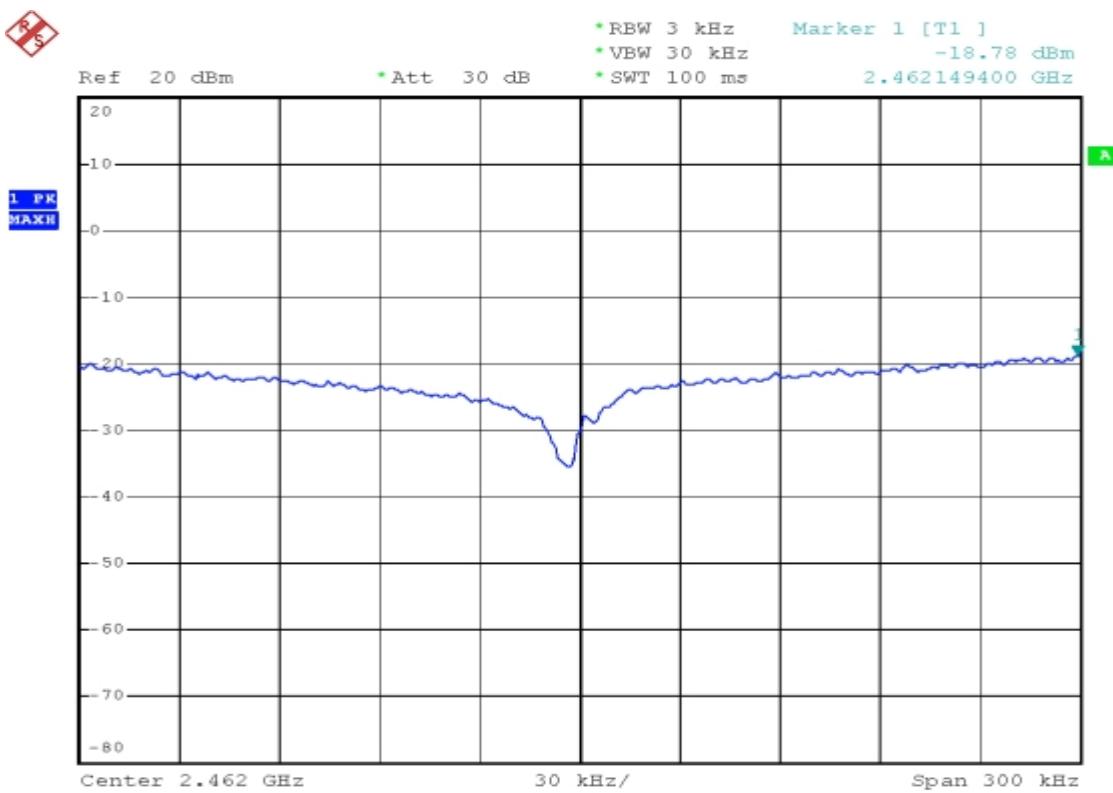
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CH 6:



CH 11:





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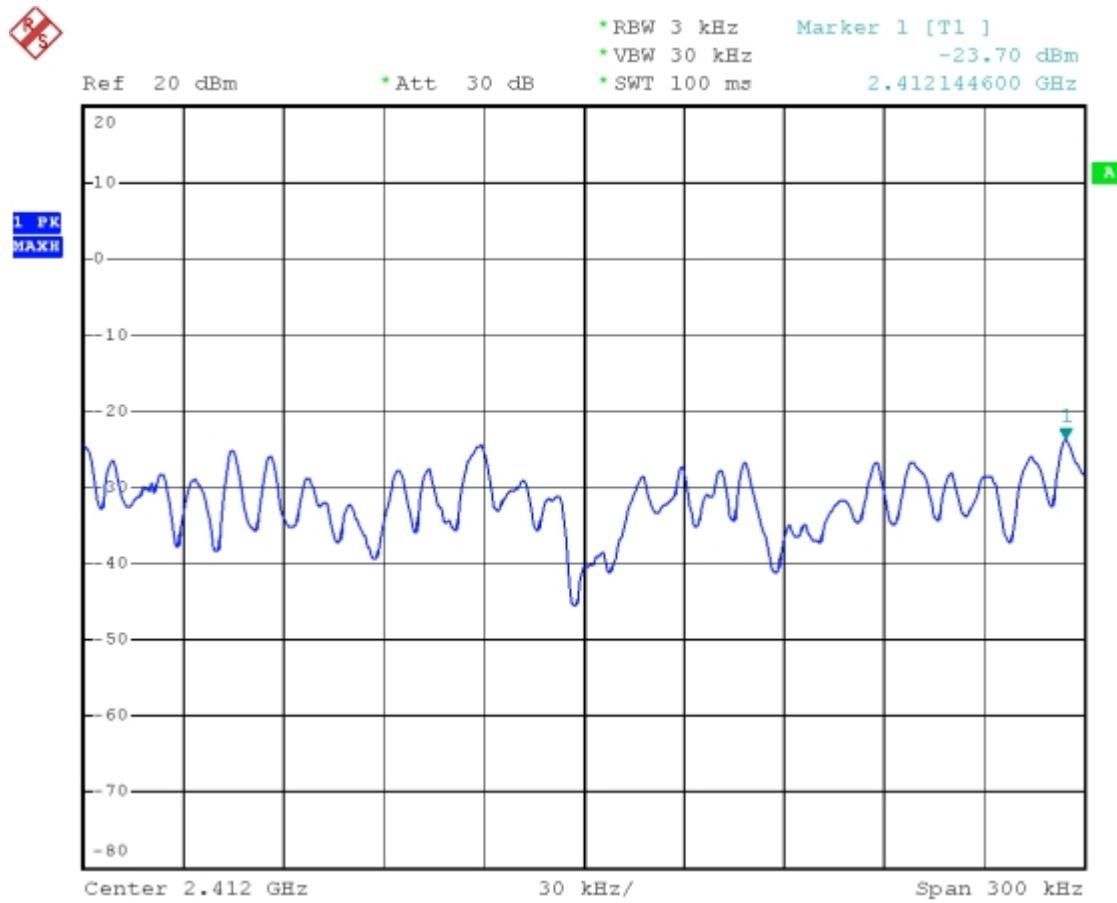
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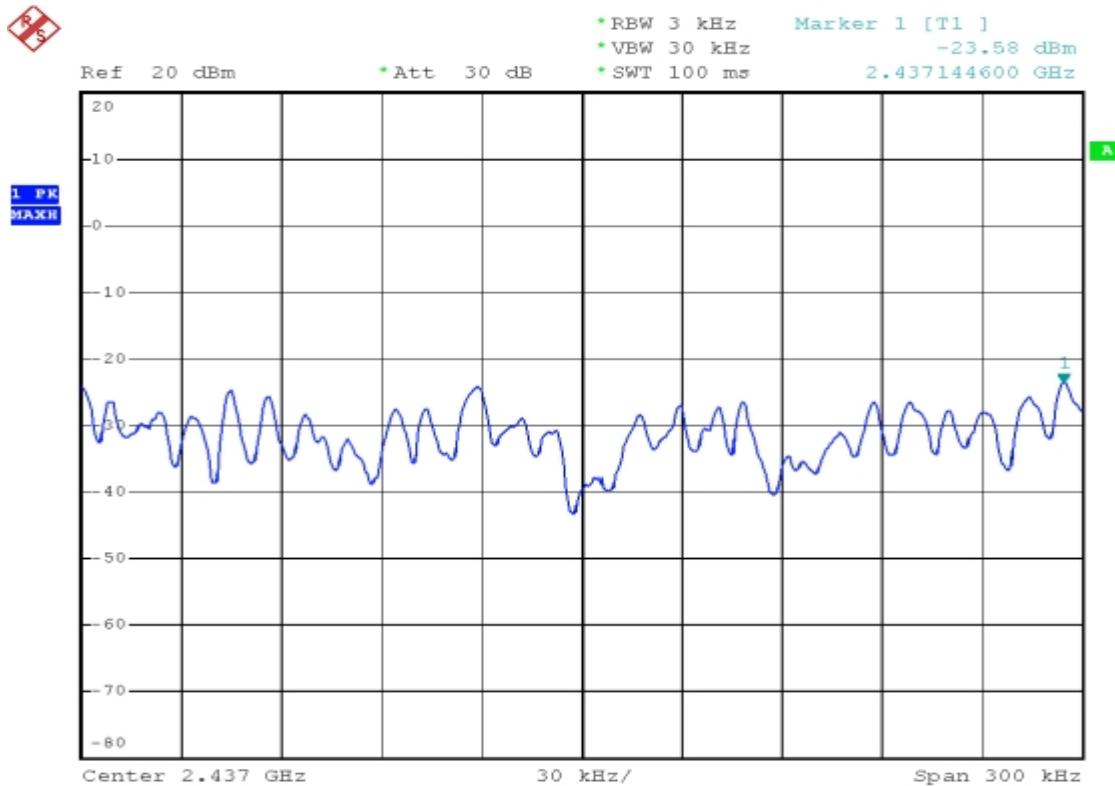
Temperature: 22°C Humidity: 65%RH
Spectrum Detector: PK. Tested Mode: 802.11 g
Modulation Type: OFDM
Tested By: Shunm Wang Tested Date: Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm/3kHz)	MAXIMUM LIMIT (dBm/3kHz)
1	2412	-23.70	8
6	2437	-23.58	8
11	2462	-24.18	8

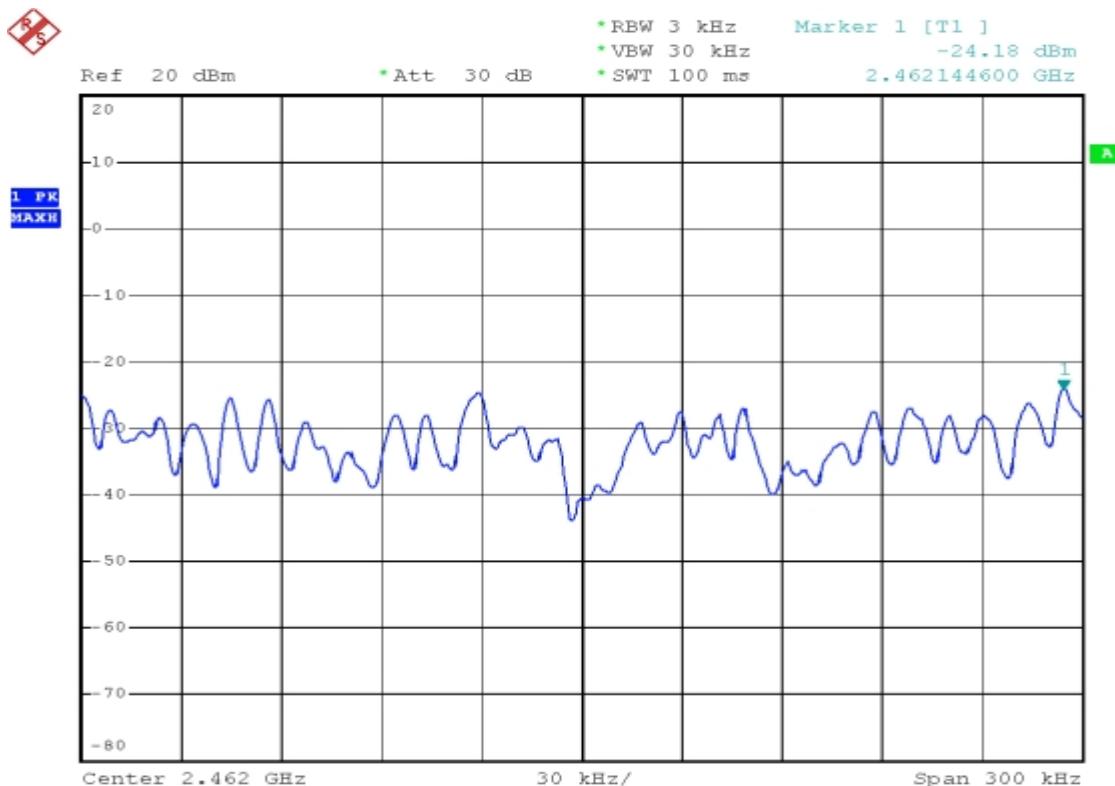
CH 1:



CH 6:



CH 11:





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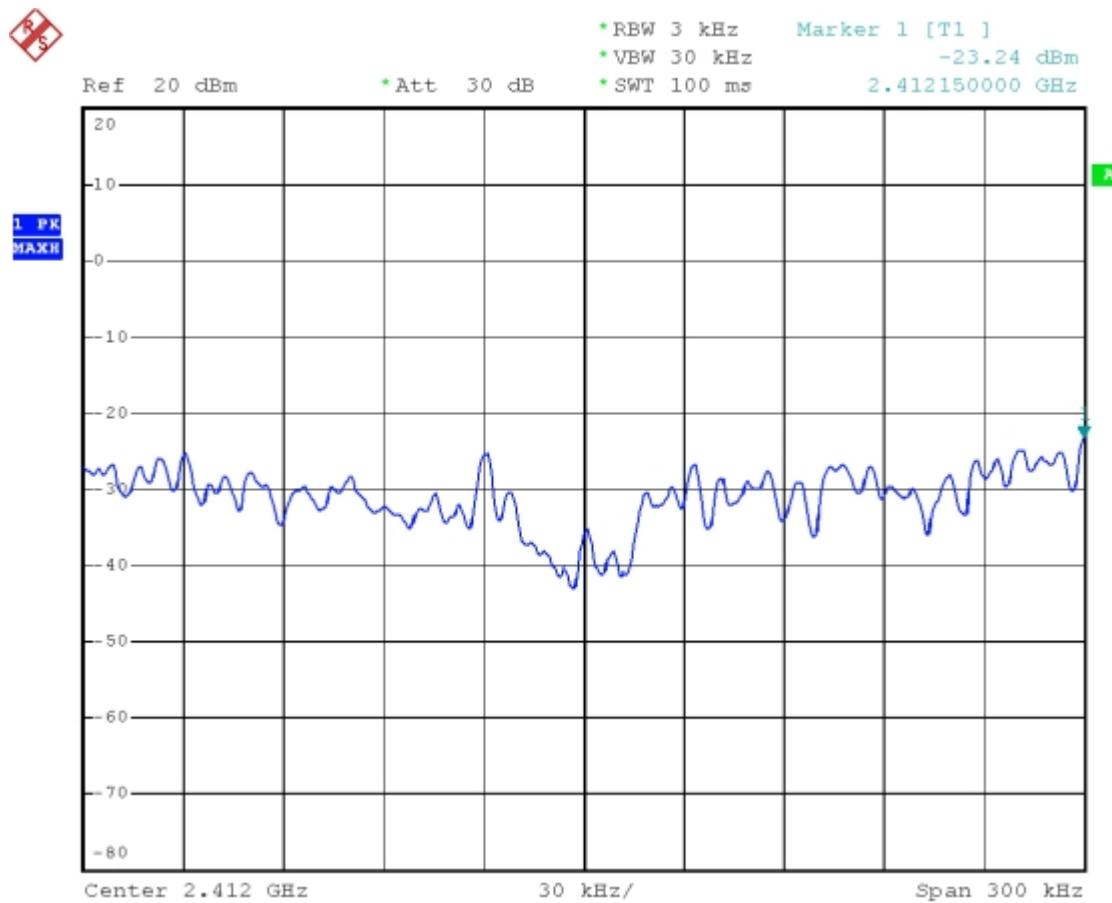
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Temperature: 22°C Humidity: 65%RH
Spectrum Detector: PK. Tested Mode: 802.11 n (20M)
Modulation Type: OFDM
Tested By: Shunm Wang Tested Date: Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm/3kHz)	MAXIMUM LIMIT (dBm/3kHz)
1	2412	-23.24	8
6	2437	-22.92	8
11	2462	-23.43	8

CH 1:



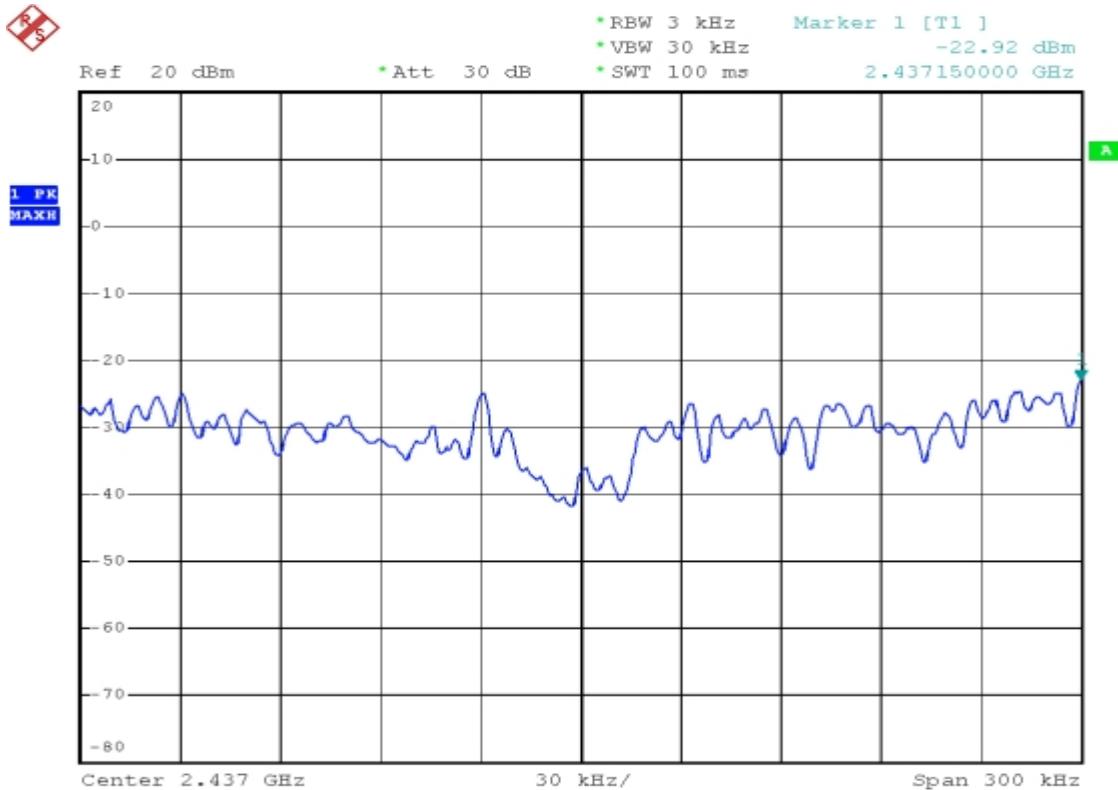
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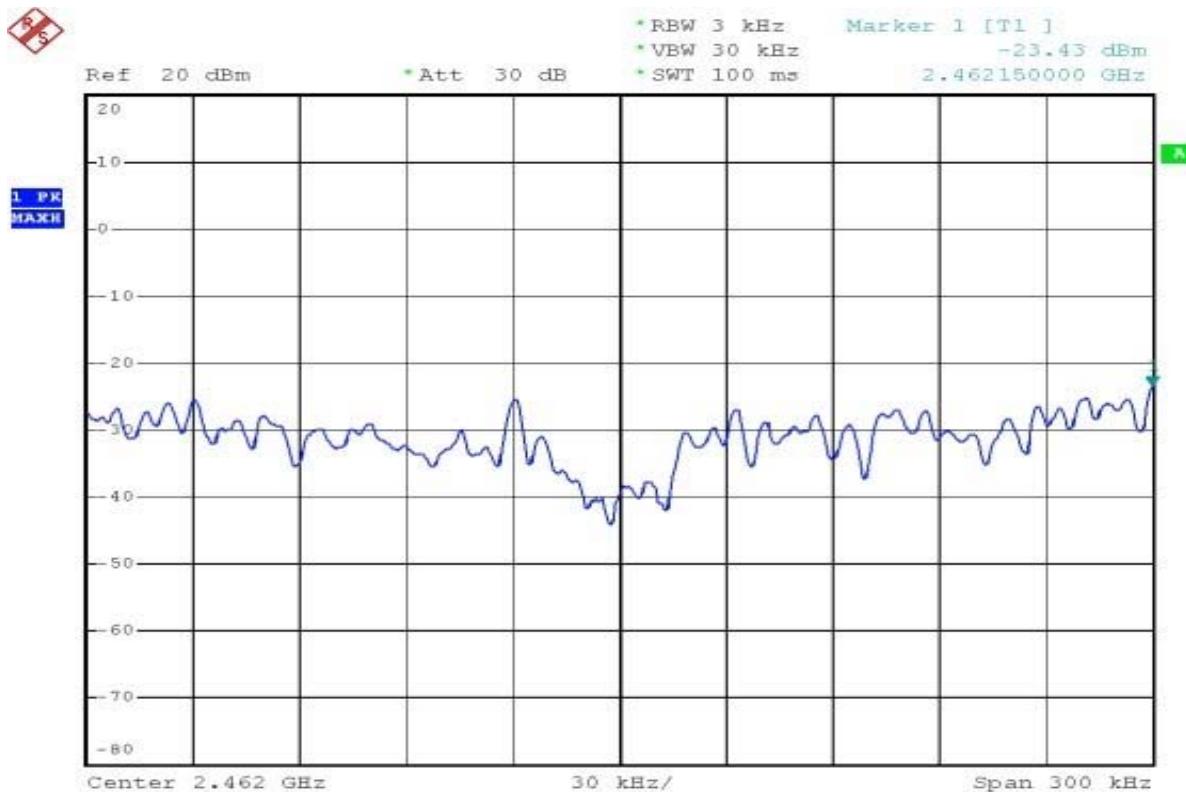
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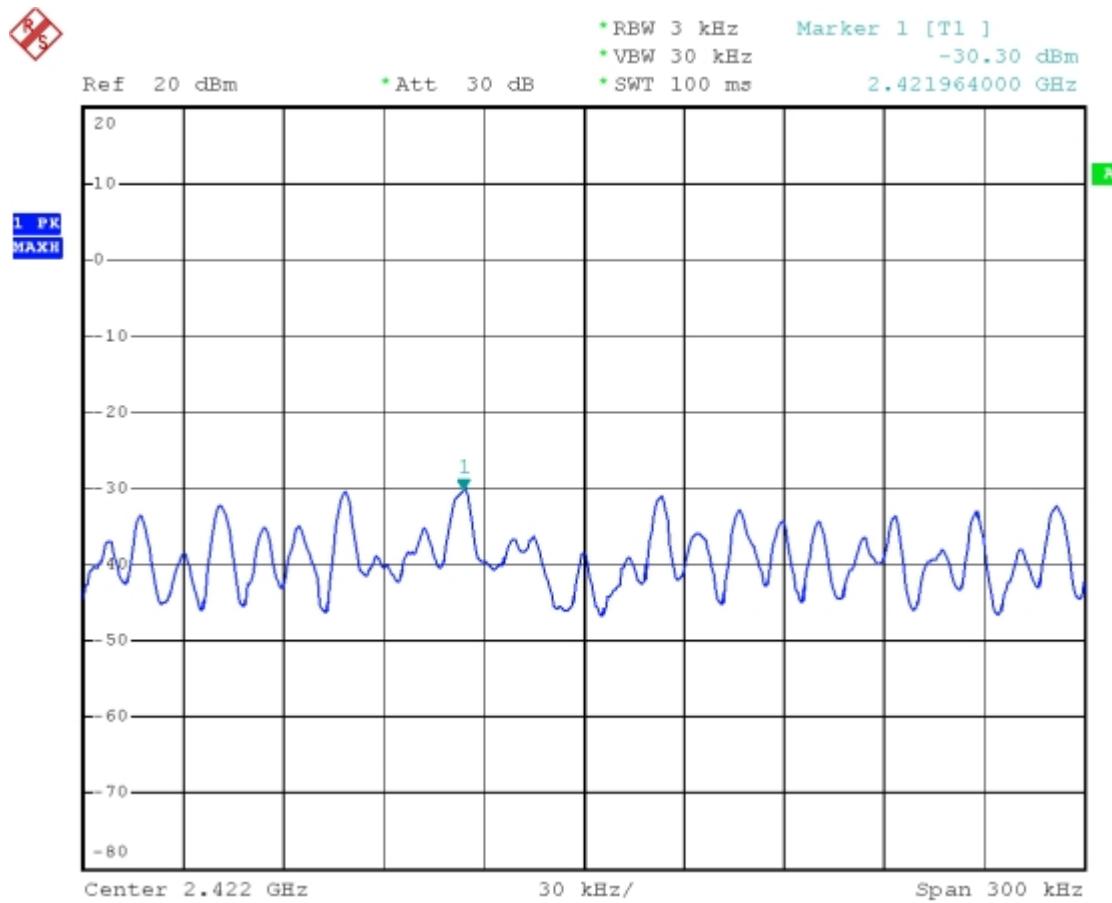
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Temperature: 22°C Humidity: 65%RH
Spectrum Detector: PK. Tested Mode: 802.11 n (40M)
Modulation Type: OFDM
Tested By: Shunm Wang Tested Date: Oct. 26, 2010

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm/3kHz)	MAXIMUM LIMIT (dBm/3kHz)
1	2412	-30.30	8
6	2437	-30.12	8
11	2462	-30.37	8

CH 1:

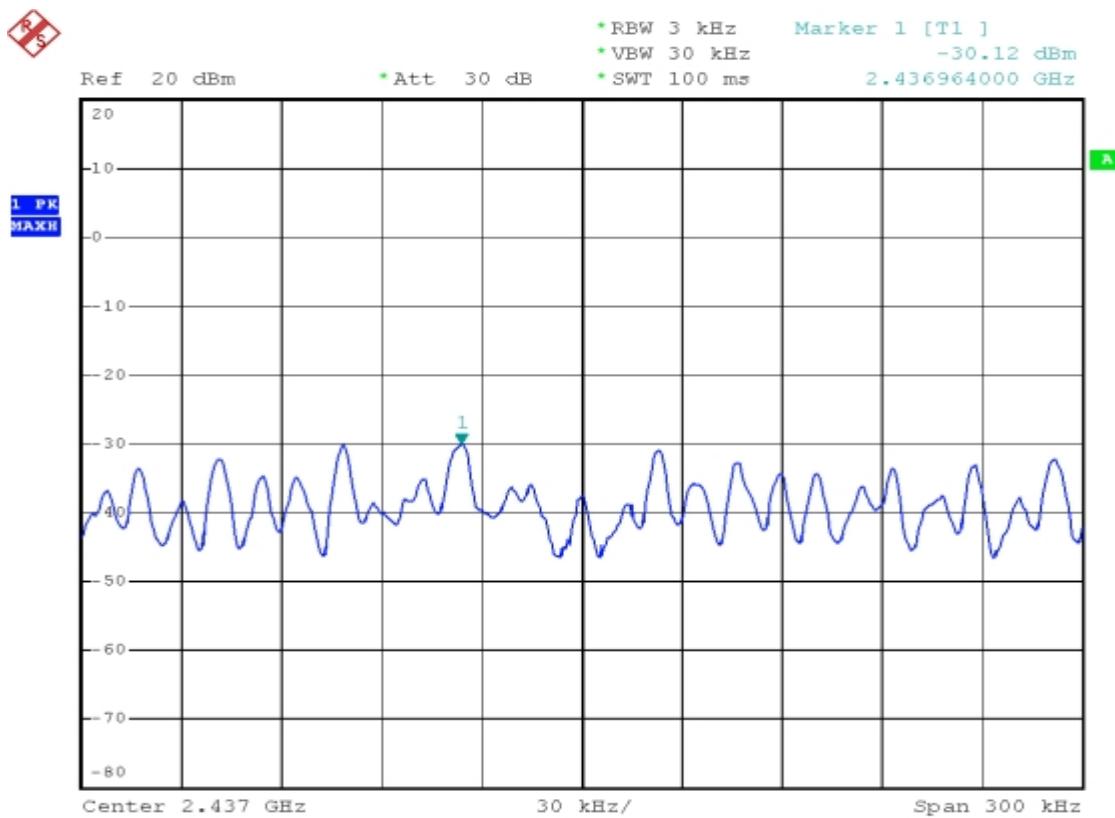




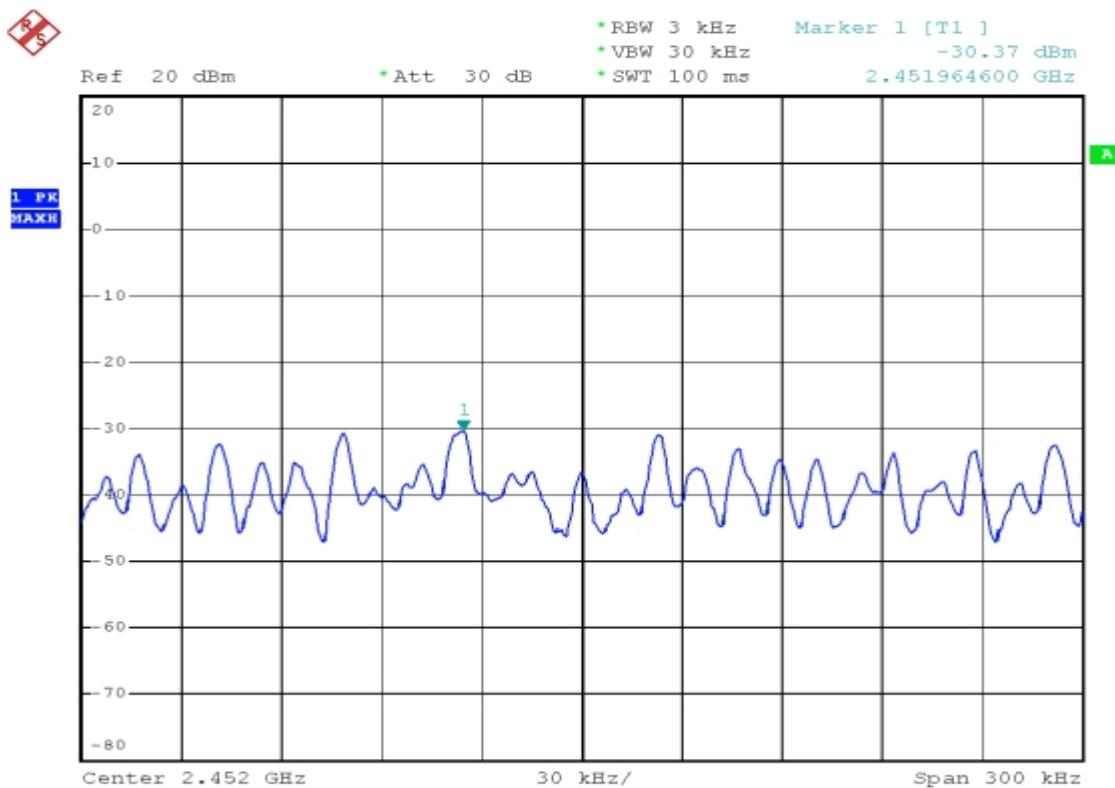
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5. Antenna application

5.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

FCC part15C section15.247 requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

5.2 Result

The EUT's antenna used a Reversed SMA Dipole. Gain of antenna types is 2 dBi that meet the requirement.