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FCC TEST REPORT

REPORT NO.: RF990914E07

MODEL NO.: WU5205C

FCC ID: SUZ-WU5205C

RECEIVED: Sep. 14, 2010

TESTED: Oct. 06 to 15, 2010

ISSUED: Oct. 22, 2010

APPLICANT: Coretronic Corp.

ADDRESS: No. 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan.

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

LAB ADDRESS: No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan

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1. CERTIFICATION

PRODUCT: 802.11b/g/n Mini Wireless LAN USB2.0 Adapter
BRAND NAME: Coretronic, DELL
MODEL NO.: WU5205C
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Oct. 06 to 15, 2010
APPLICANT: Coretronic Corp.
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
ANSI C63.4-2003

The above equipment (Model: WU5205C) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Midoli Peng , **DATE:** Oct. 22, 2010
(Midoli Peng, Specialist)

TECHNICAL ACCEPTANCE : Hank Chung , **DATE:** Oct. 22, 2010
(Hank Chung, Deputy Manager)

APPROVED BY : May Chen , **DATE:** Oct. 22, 2010
(May Chen, Deputy Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -18.06dB at 0.470MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -0.5dB at 4824.00MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Conducted Out-Band Emission Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.



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2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.45 dB
Radiated emissions (30MHz-1GHz)	4 dB
Radiated emissions (1GHz -18GHz)	2.49 dB
Radiated emissions (18GHz -40GHz)	2.70 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11b/g/n Mini Wireless LAN USB2.0 Adapter
MODEL NO.	WU5205C
FCC ID	SUZ-WU5205C
POWER SUPPLY	DC 5V±10% from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b :11/5.5/2/1Mbps 802.11g : 54/48/36/24/18/12/9/6Mbps 802.11n (20MHz, 800ns GI) : 65 / 58.5 / 52 / 39 / 26 / 19.5 / 13 / 6.5Mbps 802.11n (40MHz, 800ns GI) : 135 / 121.5 / 108 / 81 / 54 / 40.5 / 27 / 13.5Mbps 802.11n (20MHz, 400ns GI) : 72.2 / 65 / 57.8 / 43.3 / 28.9 / 21.7 / 14.4 / 7.2Mbps 802.11n (40MHz, 400ns GI) : 150 / 135 / 120 / 90 / 60 / 45 / 30 / 15Mbps
OPRTAING FREQUENCY	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
MAXIMUM OUTPUT POWER	802.11b: 47.9mW 802.11g: 257.0mW 802.11n (20MHz): 251.2mW 802.11n (40MHz): 229.1mW
ANTENNA TYPE	Please see note 2
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT has two brand names, which are identical to each other in all aspects except for the following:

Brand	Model No.	Difference
Coretronic	WU5205C	For Marketing requirement
DELL		

2. There is one antenna provided to this EUT, please refer to the following table:

Manufacture	Model name	Gain (dBi)	Antenna Type	Connector Type
Walsin Technology Corporation	RFANT3216120A5T	2.12	Chip	NA

3. The EUT incorporates a SISO function with 802.11b, 802.11g, 802.11n. Physically, the EUT provides one completed transmitter and one receiver.
4. The EUT is 1 * 1 spatial SISO without beam forming function.
5. The EUT complies with 802.11n standards and backwards compatible with 802.11b, 802.11g products.
6. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b and 802.11n technique devices to the network.
7. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



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3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided for 802.11b, 802.11g, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

Seven channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		



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3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	
-	√	√	√	√	-

Where **PLC**: Power Line Conducted Emission **RE < 1G**: Radiated Emission below 1GHz
RE ≥ 1G: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1	OFDM	BPSK	6

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1	OFDM	BPSK	6



RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5

CONDUCTED OUT-BAND EMISSION MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 11	OFDM	BPSK	6
802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5
802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5

※ TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER(system)	TESTED BY
RE\geq1G	25deg. C, 67%RH, 1013 hPa	120Vac, 60Hz	Wen Yu
RE<1G	25deg. C, 68%RH, 1013 hPa	120Vac, 60Hz	Kent Liu
PLC	27deg. C, 65%RH, 1013 hPa	120Vac, 60Hz	Kyle Huang
APCM	25deg. C, 60%RH, 1013 hPa	120Vac, 60Hz	Kent Liu



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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3.4 DESCRIPTION OF SUPPORT UNITS

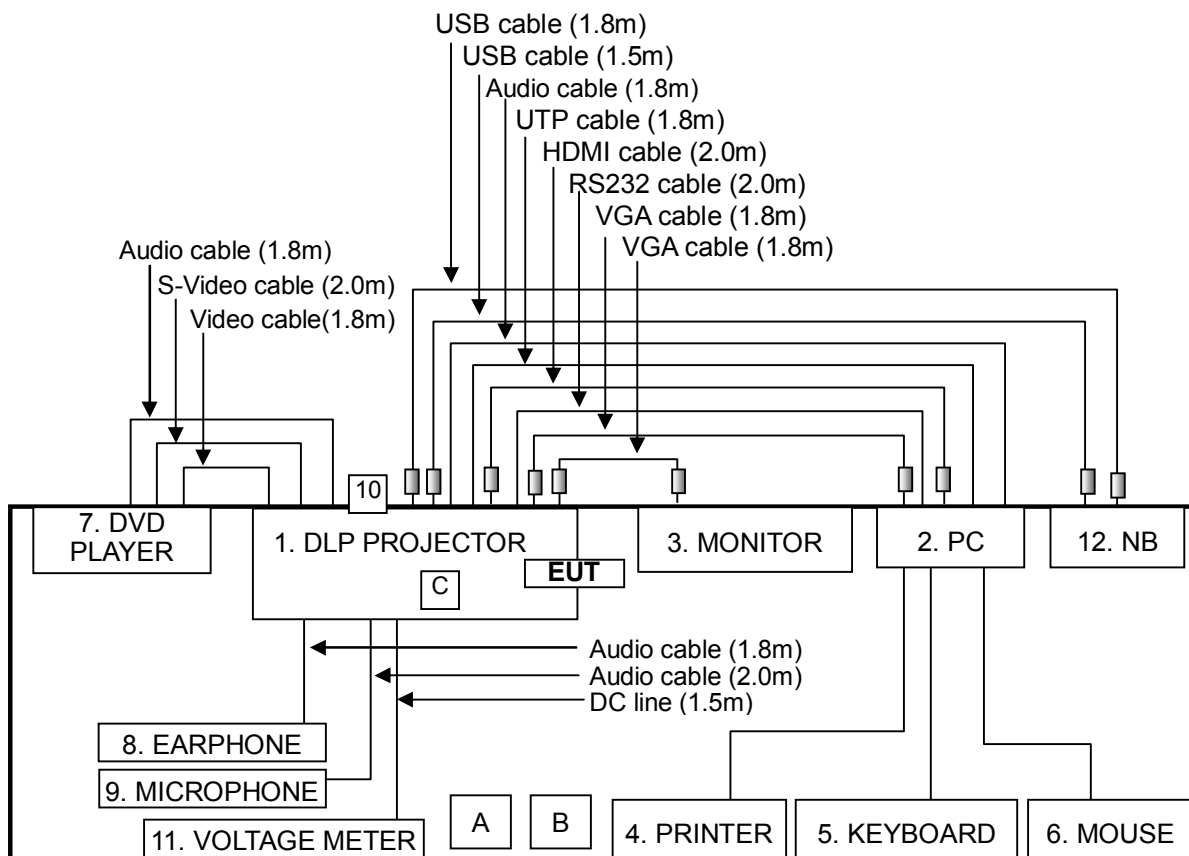
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	DLP PROJECTOR	Coretronic, DELL	S500wi	NA	NA
2	PERSONAL COMPUTER	DELL	DCSM	J84QL1S	FCC DoC
3	MONITOR	DELL	U2410F	CNOJ257M728729AG14ML	FCC DoC
4	PRINTER	EPSON	LQ-300+II	G88Y074083	FCC DoC
5	KEYBOARD	DELL	SK-8115	CN-OJ4635-71616-62I-01M9	FCC DoC
6	MOUSE	DELL	MO56UO	349003988	NA
7	DVD PLAYER	Pioneer	DV-600AV-S	GIKD005479LS	FCC DoC
8	EARPHONE	PHILIPS	NA	NA	NA
9	MICROPHONE	JS	NA	NA	NA
10	USB DISK	SanDisk	SDCZ2-512-A10	5393722913	FCC DoC
11	VOLTAGE METER	sentronic	YS-670	369106-1	NA
12	NOTEBOOK COMPUTER	DELL	E6400	D814C A00 APCC	NA

No.	Signal cable description
1	NA
2	VGA cable (shielded, 1.8m with 2 cores) / RS232 cable (unshielded, 2.0m) HDMI cable (shielded, 2.0m) / UTP cable (1.8m) / Audio cable (shielded, 1.8m)
3	VGA cable (shielded, 1.8m with 2 cores)
4	1.8m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
5	1.8 m foil shielded wire, USB connector, w/o core.
6	1.8 m foil shielded wire, USB connector, w/o core.
7	S-Video cable (unshielded, 2.0m) / Video cable (unshielded, 1.8m) / Audio cable (shielded, 1.8m)
8	Audio cable (shielded, 1.8m)
9	Audio cable (shielded, 2.0m)
10	NA
11	DC line(1.5m)
12	USB cable (shielded, 1.8m with 2 cores) / USB cable (shielded, 1.5m with 2 cores)

NOTE: All power cords of the above support units are non shielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST



- NOTE:**
1. Item A is the remote controller of the DLP projector.
 2. Item B is the Interactive Pen of the DLP projector.
 3. Item C is the Interactive Module of the DLP projector.
 4. Item 10 is USB disk.

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
0.15-0.5 0.5-5 5-30	Quasi-peak	Average
	66 to 56	56 to 46
	56	46
	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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100287	Mar. 01, 2010	Feb. 28, 2011
Line-Impedance Stabilization Network (for EUT)	NSLK 8127	8127-523	Sep. 23, 2010	Sep. 22, 2011
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100072	June 11, 2010	June 10, 2011
RF Cable (JYEBAO)	5DFB	COACAB-001	Dec. 14, 2009	Dec. 13, 2010
50 ohms Terminator	50	3	Oct. 28, 2009	Oct. 27, 2010
Software	BV ADT_Cond_V7.3.7	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.

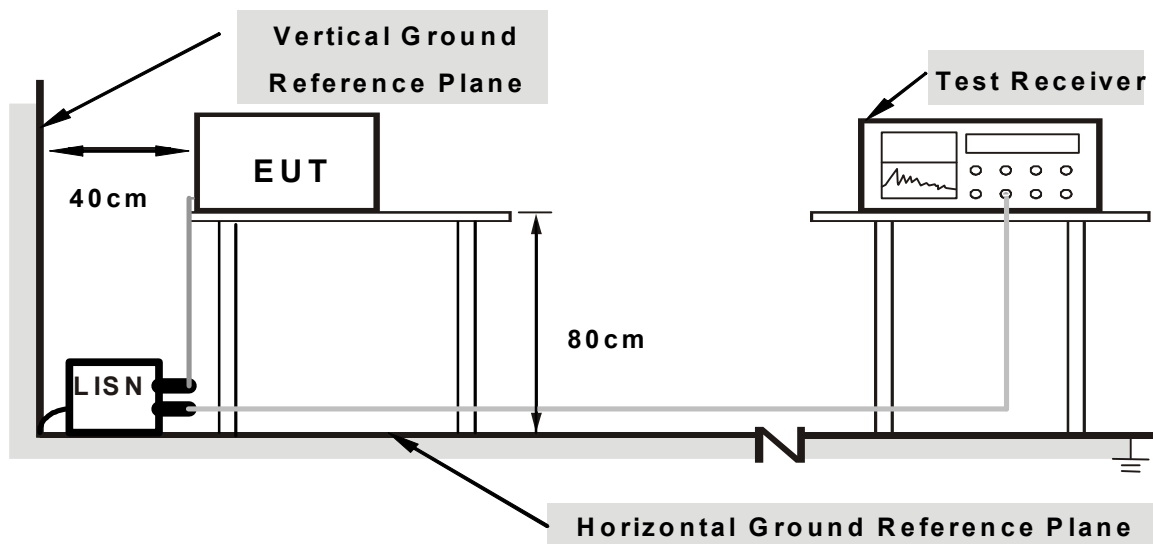
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit 1 (DLP Projector) which is placed on test table.
2. The support unit 2 (Personal Computer) runs test program “Ralink RT3x7x QA V1.5.2.0” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

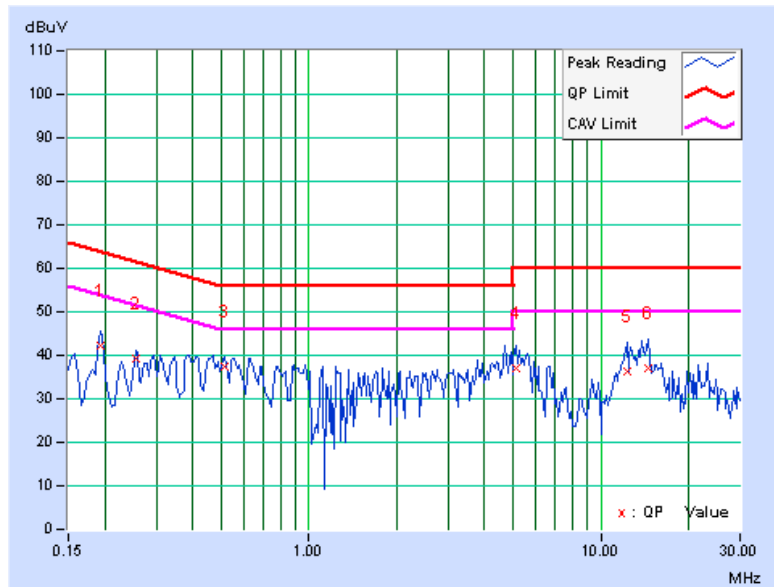
4.1.7 TEST RESULTS

802.11g OFDM MODULATION:

PHASE	Line (L)	6dB BANDWIDTH	9 kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.193	0.03	42.09	-	42.12	-	63.91
2	0.255	0.03	39.34	-	39.37	-	61.58	51.58	-22.20	-
3	0.517	0.05	37.24	-	37.29	-	56.00	46.00	-18.71	-
4	5.137	0.14	36.85	-	36.99	-	60.00	50.00	-23.01	-
5	12.289	0.38	36.02	-	36.40	-	60.00	50.00	-23.60	-
6	14.488	0.50	36.53	-	37.03	-	60.00	50.00	-22.97	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



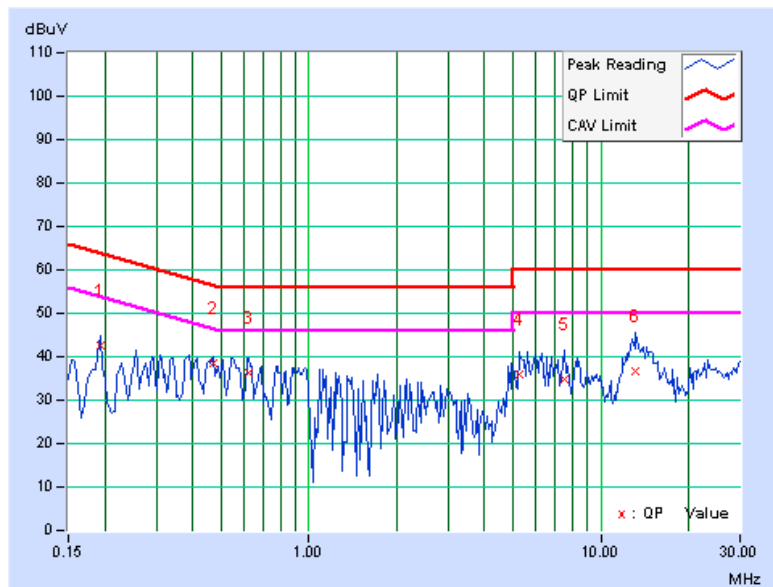


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PHASE	Neutral (N)	6dB BANDWIDTH	9 kHz
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.04	42.51	-	42.55	-	63.91	53.91	-21.36	-
2	0.470	0.06	38.39	-	38.45	-	56.51	46.51	-18.06	-
3	0.623	0.07	36.08	-	36.15	-	56.00	46.00	-19.85	-
4	5.266	0.17	35.72	-	35.89	-	60.00	50.00	-24.11	-
5	7.477	0.21	34.63	-	34.84	-	60.00	50.00	-25.16	-
6	13.215	0.44	36.05	-	36.49	-	60.00	50.00	-23.51	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. Section 15.205 restricted bands of operation shall compliance with the limits in Section 15.209.

4.2.2 TEST INSTRUMENTS

Below 1GHz test (Test date: Oct. 14, 2010):

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	U3751	160200410	Sep. 08, 2010	Sep. 07, 2011
PSA Sevies Spectrum Analyzer	E4446A	MY46180622 111 115 UK6	May 12, 2010	May 11, 2011
HP Pre_Amplifier	8449B	3008A01922	Sep. 24, 2010	Sep. 23, 2011
ROHDE & SCHWARZ Test Receiver	ESVS 30	841977/002	Nov. 28, 2009	Nov. 27, 2010
SCHAFFNER(CHASE) Broadband Antenna	CBL6112B	2798	Apr. 29, 2010	Apr. 28, 2011
Schwarzbeck Horn_Antenna	BBHA9120-D1	D123	Sep. 04, 2010	Sep. 03, 2011
Schwarzbeck Horn_Antenna	BBHA 9170	9170-424	Oct. 08, 2010	Oct. 07, 2011
RF Switches	MP59B	6100175593	Sep. 01, 2010	Aug. 31, 2011
RF Cable	8DFB	STBCAB-001	Sep. 01, 2010	Aug. 31, 2011
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA
CORCOM AC Filter	MRI2030	024/019	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna, preamplifier (model: 8449B) and Spectrum Analyzer (model: E4446A) are used only for the measurement of emission frequency above 1GHz if tested.

3. The test was performed in Open Site No. B.

4. The VCCI Site Registration No. is R-847.

5. The FCC Site Registration No. is 92753.

6. The CANADA Site Registration No. is IC 7450G-2.



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Above 1GHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010
Agilent PSA Spectrum Analyzer	E4446A	MY46180622	May 12 , 2010	May 11 , 2011
HP Pre_Amplifier	8449B	300801923	Nov. 02, 2009	Nov. 01, 2010
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 03, 2010	Sep. 02, 2011
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	Apr. 28, 2010	Apr. 27, 2011
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 18, 2009	Dec. 17, 2010
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2010	Jan. 21, 2011
RF Switches	EMH-011	1001	NA	NA
RF CABLE (Chaintek)	Sucoflex 104+ Sucoflex 106	RF104-101+R F106-101	Aug. 24, 2010	Aug. 23, 2011
RF Cable	8DFB	STCCAB-30M- 1GHz	NA	NA
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna, preamplifier (model: 8449B) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.

3. The test was performed in Open Site No. C.

4. The FCC Site Registration No. is 656396.

5. The VCCI Site Registration No. is R-1626.

6. The CANADA Site Registration No. is IC 7450G-3.



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4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

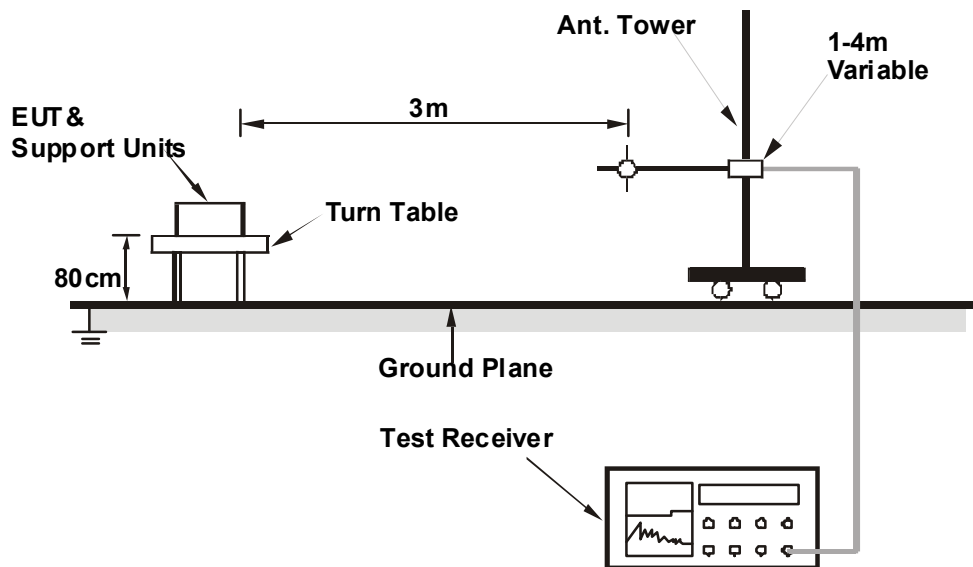
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as the 4.1.6



4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA : 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Kent Liu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	120.00	29.4 QP	43.5	-14.1	1.00 H	14	15.60	13.80
2	134.33	30.5 QP	43.5	-13.0	1.20 H	245	16.60	13.90
3	155.55	29.8 QP	43.5	-13.7	1.20 H	25	17.70	12.10
4	240.00	37.5 QP	46.0	-8.5	1.33 H	48	23.50	14.00
5	375.00	38.2 QP	46.0	-7.8	1.61 H	240	20.00	18.20
6	637.50	36.6 QP	46.0	-9.4	1.45 H	154	12.70	23.90
7	1000.00	33.6 QP	54.0	-20.4	1.00 H	118	6.70	26.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.00	29.6 QP	43.5	-13.9	1.40 V	120	15.70	13.90
2	250.00	34.2 QP	46.0	-11.8	1.20 V	319	19.70	14.50
3	445.06	32.9 QP	46.0	-13.1	1.00 V	345	12.60	20.30
4	500.00	37.4 QP	46.0	-8.6	1.00 V	208	15.70	21.70
5	741.77	34.2 QP	46.0	-11.8	1.24 V	321	9.50	24.70
6	890.13	38.9 QP	46.0	-7.1	1.15 V	141	12.90	26.00
7	1000.00	38.2 QP	54.0	-15.8	1.80 V	43	11.30	26.90

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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ABOVE 1GHz WORST-CASE DATA

802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2386.00	53.8 PK	74.0	-20.2	1.52 H	96	22.85	30.95
2	2386.00	41.4 AV	54.0	-12.6	1.52 H	96	10.45	30.95
3	*2412.00	99.6 PK			1.52 H	96	68.54	31.06
4	*2412.00	97.3 AV			1.52 H	96	66.24	31.06
5	4824.00	55.6 PK	74.0	-18.4	1.36 H	88	18.48	37.12
6	4824.00	53.5 AV	54.0	-0.5	1.36 H	88	16.38	37.12
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2386.00	53.9 PK	74.0	-20.1	1.43 V	71	22.95	30.95
2	2386.00	41.2 AV	54.0	-12.8	1.43 V	71	10.25	30.95
3	*2412.00	96.1 PK			1.40 V	74	65.04	31.06
4	*2412.00	93.5 AV			1.40 V	74	62.44	31.06
5	4824.00	54.6 PK	74.0	-19.4	1.15 V	135	17.48	37.12
6	4824.00	52.5 AV	54.0	-1.5	1.15 V	135	15.38	37.12

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	102.7 PK			1.51 H	96	71.53	31.17
2	*2437.00	100.5 AV			1.51 H	96	69.33	31.17
3	4874.00	54.9 PK	74.0	-19.1	1.34 H	88	17.67	37.23
4	4874.00	52.9 AV	54.0	-1.1	1.34 H	88	15.67	37.23
5	7311.00	54.0 PK	74.0	-20.0	1.11 H	94	9.64	44.36
6	7311.00	45.1 AV	54.0	-8.9	1.11 H	94	0.74	44.36
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.9 PK			1.33 V	96	66.73	31.17
2	*2437.00	95.4 AV			1.33 V	96	64.23	31.17
3	4874.00	53.0 PK	74.0	-21.0	1.29 V	133	15.77	37.23
4	4874.00	49.9 AV	54.0	-4.1	1.29 V	133	12.67	37.23
5	7311.00	50.9 PK	74.0	-23.1	1.48 V	103	6.54	44.36
6	7311.00	39.3 AV	54.0	-14.7	1.48 V	103	-5.06	44.36

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.3 PK			1.50 H	96	75.02	31.28
2	*2462.00	104.0 AV			1.50 H	96	72.72	31.28
3	2484.00	56.3 PK	74.0	-17.7	1.50 H	96	24.93	31.37
4	2484.00	43.7 AV	54.0	-10.3	1.50 H	96	12.33	31.37
5	4924.00	55.2 PK	74.0	-18.8	1.30 H	88	17.85	37.35
6	4924.00	53.4 AV	54.0	-0.6	1.30 H	88	16.05	37.35
7	7386.00	55.6 PK	74.0	-18.4	1.11 H	93	11.00	44.60
8	7386.00	49.6 AV	54.0	-4.4	1.11 H	93	5.00	44.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

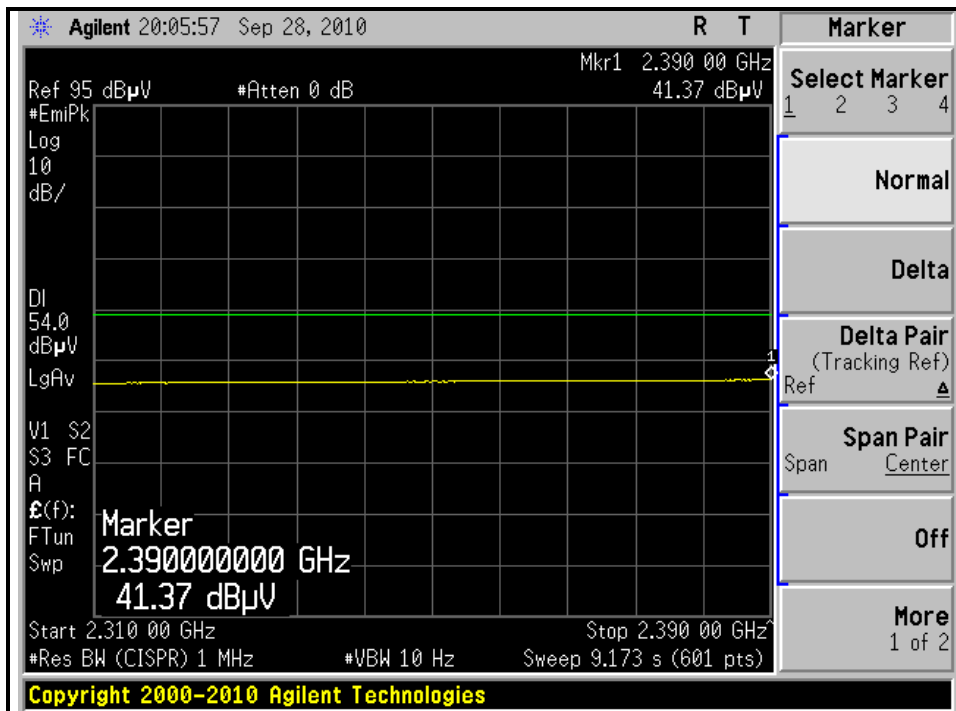
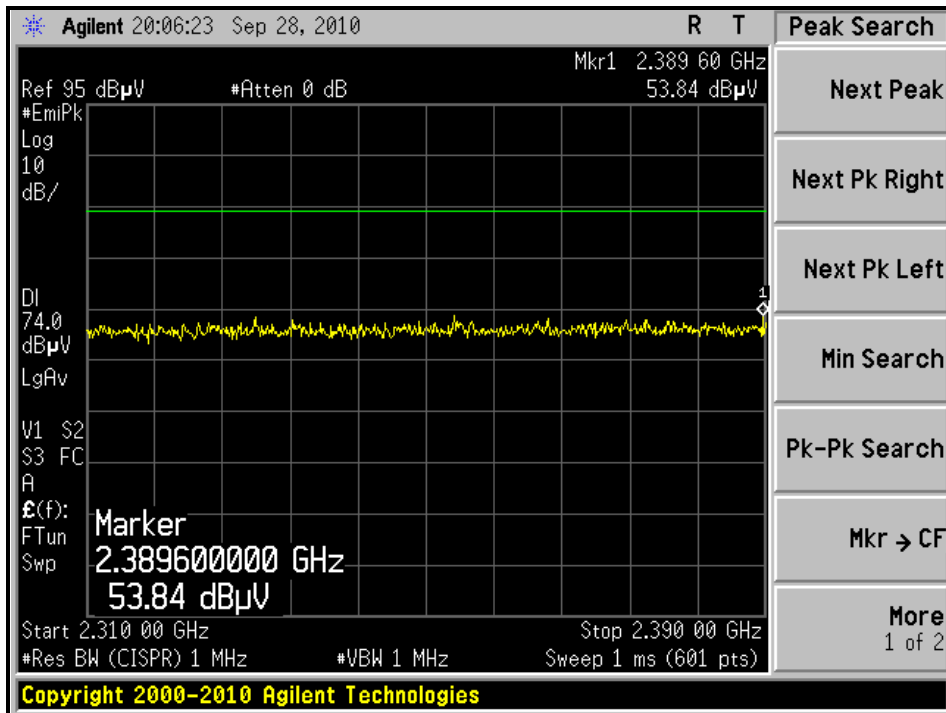
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1	*2462.00	100.2 PK			1.34 V	96	68.92	31.28
2	*2462.00	97.8 AV			1.34 V	96	66.52	31.28
3	2483.50	55.1 PK	74.0	-18.9	1.34 V	96	23.73	31.37
4	2483.50	42.3 AV	54.0	-11.7	1.34 V	96	10.93	31.37
5	4924.00	51.0 PK	74.0	-23.0	1.27 V	139	13.65	37.35
6	4924.00	48.1 AV	54.0	-5.9	1.27 V	139	10.75	37.35
7	7386.00	51.3 PK	74.0	-22.7	1.49 V	100	6.70	44.60
8	7386.00	39.7 AV	54.0	-14.3	1.49 V	100	-4.90	44.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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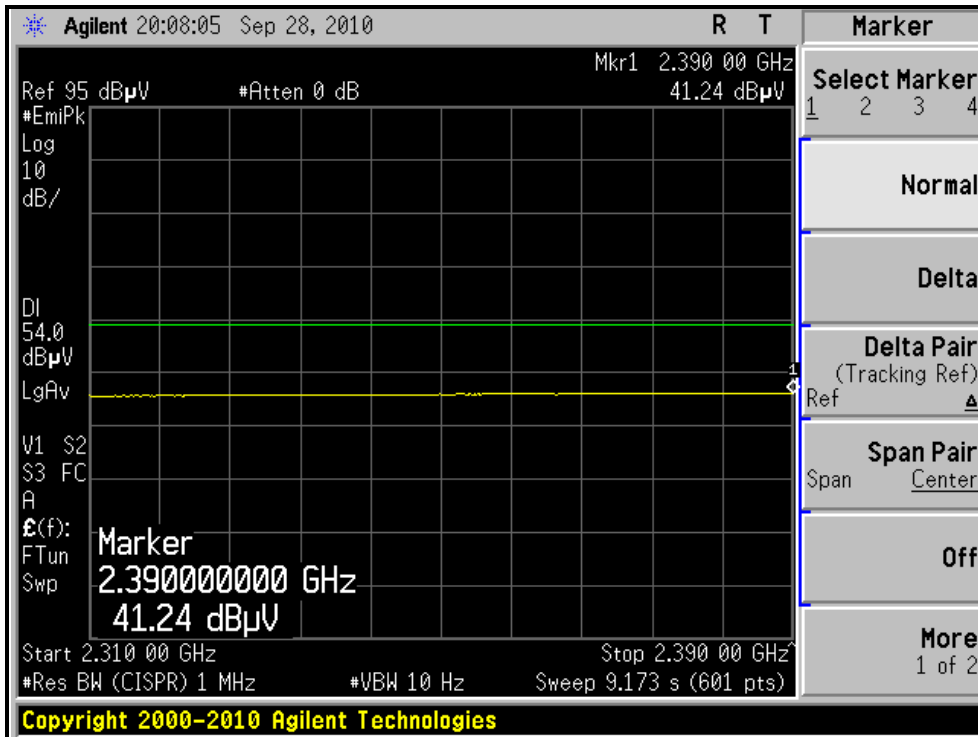
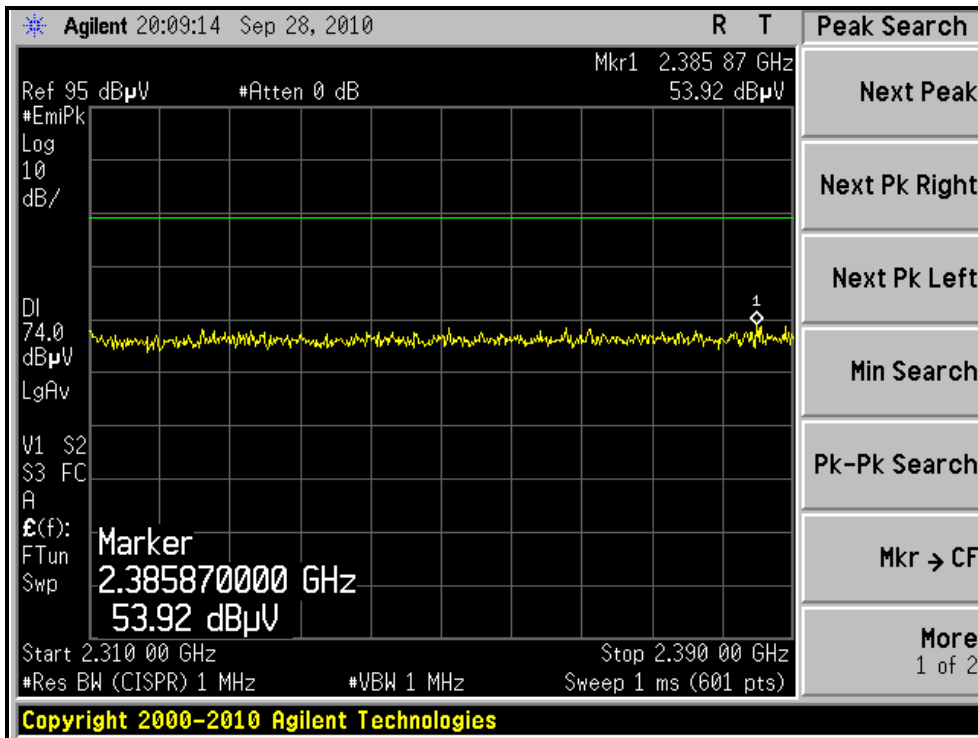
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)





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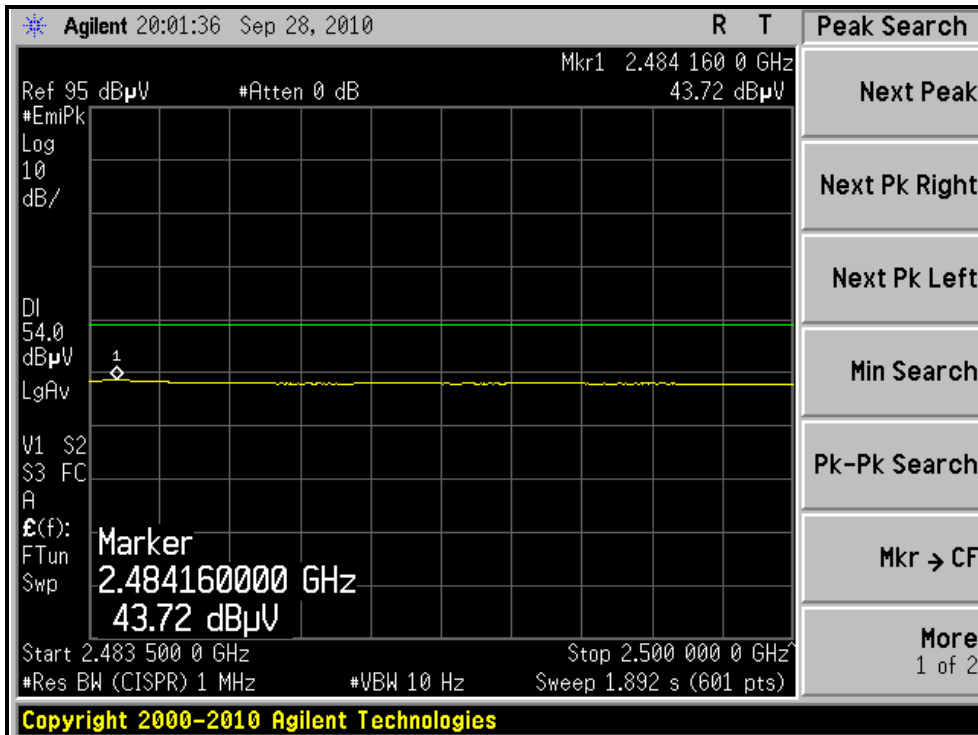
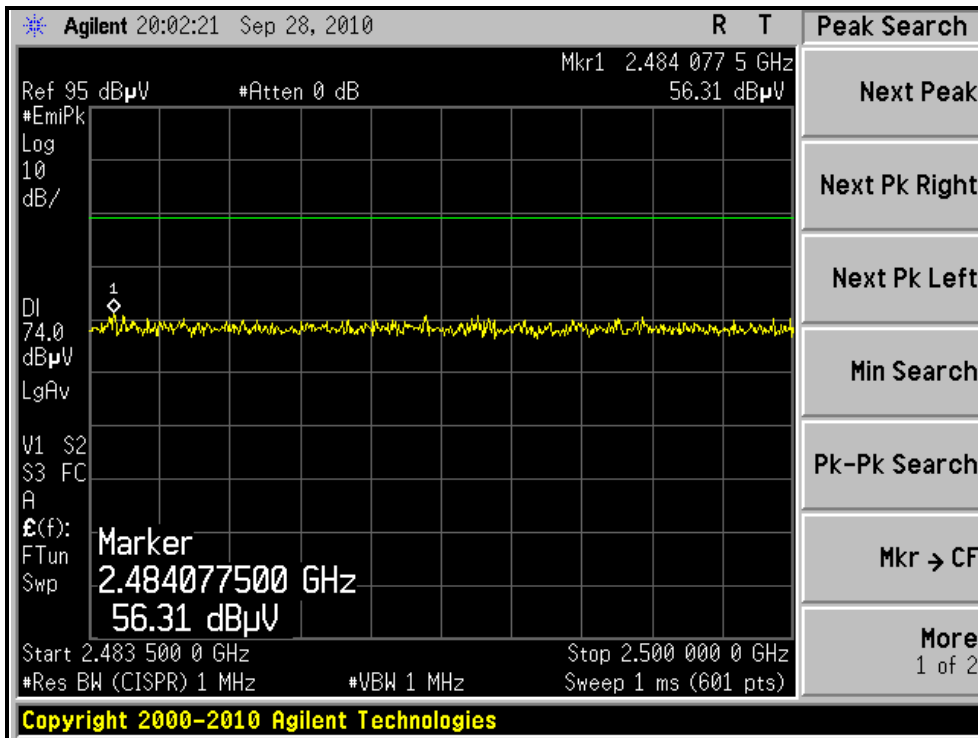
RESTRICTED BANDEDGE (802.11b MODE, CH1, VERTICAL)





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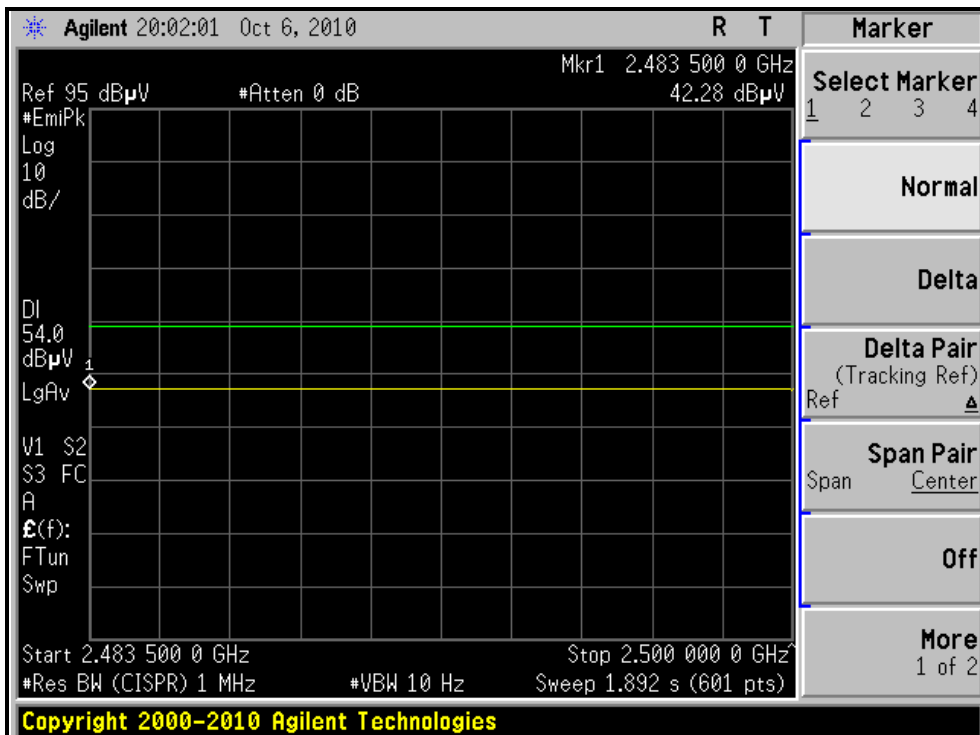
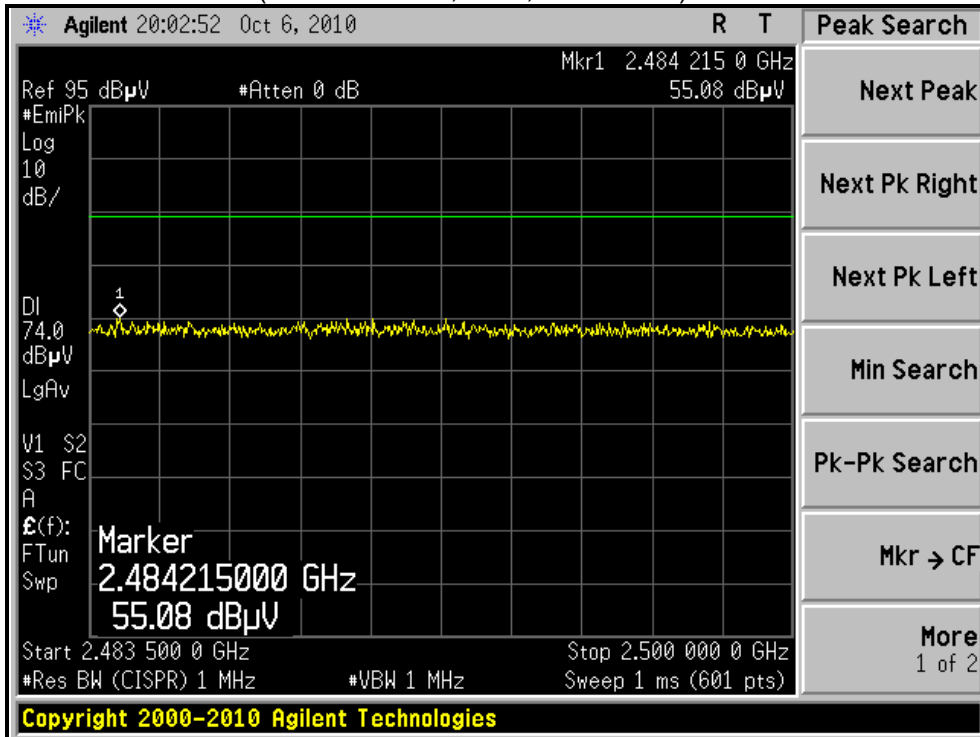
RESTRICTED BANDEDGE (802.11b MODE,CH11, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11b MODE, CH11, VERTICAL)





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802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.4 PK	74.0	-9.6	1.49 H	95	33.43	30.97
2	2390.00	49.9 AV	54.0	-4.1	1.49 H	95	18.93	30.97
3	*2412.00	107.0 PK			1.52 H	98	75.94	31.06
4	*2412.00	98.0 AV			1.52 H	98	66.94	31.06
5	4824.00	62.0 PK	74.0	-12.0	1.36 H	87	24.88	37.12
6	4824.00	48.9 AV	54.0	-5.1	1.36 H	87	11.78	37.12
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.6 PK	74.0	-10.4	1.38 V	97	32.63	30.97
2	2390.00	45.8 AV	54.0	-8.2	1.38 V	97	14.83	30.97
3	*2412.00	103.4 PK			1.34 V	96	72.34	31.06
4	*2412.00	94.6 AV			1.34 V	96	63.54	31.06
5	4824.00	56.0 PK	74.0	-18.0	1.30 V	134	18.88	37.12
6	4824.00	43.4 AV	54.0	-10.6	1.30 V	134	6.28	37.12

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.7 PK			1.50 H	96	77.53	31.17
2	*2437.00	100.1 AV			1.50 H	96	68.93	31.17
3	4874.00	59.3 PK	74.0	-14.7	1.36 H	90	22.07	37.23
4	4874.00	45.7 AV	54.0	-8.3	1.36 H	90	8.47	37.23
5	7311.00	63.1 PK	74.0	-10.9	1.12 H	68	18.74	44.36
6	7311.00	49.5 AV	54.0	-4.5	1.12 H	68	5.14	44.36
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.7 PK			1.34 V	97	73.53	31.17
2	*2437.00	96.8 AV			1.34 V	97	65.63	31.17
3	4874.00	55.5 PK	74.0	-18.5	1.30 V	133	18.27	37.23
4	4874.00	43.0 AV	54.0	-11.0	1.30 V	133	5.77	37.23
5	7311.00	51.5 PK	74.0	-22.5	1.47 V	102	7.14	44.36
6	7311.00	39.8 AV	54.0	-14.2	1.47 V	102	-4.56	44.36

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.9 PK			1.49 H	95	77.62	31.28
2	*2462.00	99.8 AV			1.49 H	95	68.52	31.28
3	2483.50	71.4 PK	74.0	-2.6	1.48 H	96	40.03	31.37
4	2483.50	51.9 AV	54.0	-2.1	1.48 H	96	20.53	31.37
5	4924.00	58.0 PK	74.0	-16.0	1.30 H	88	20.65	37.35
6	4924.00	43.3 AV	54.0	-10.7	1.30 H	88	5.95	37.35
7	7386.00	63.2 PK	74.0	-10.8	1.12 H	69	18.60	44.60
8	7386.00	49.8 AV	54.0	-4.2	1.12 H	69	5.20	44.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

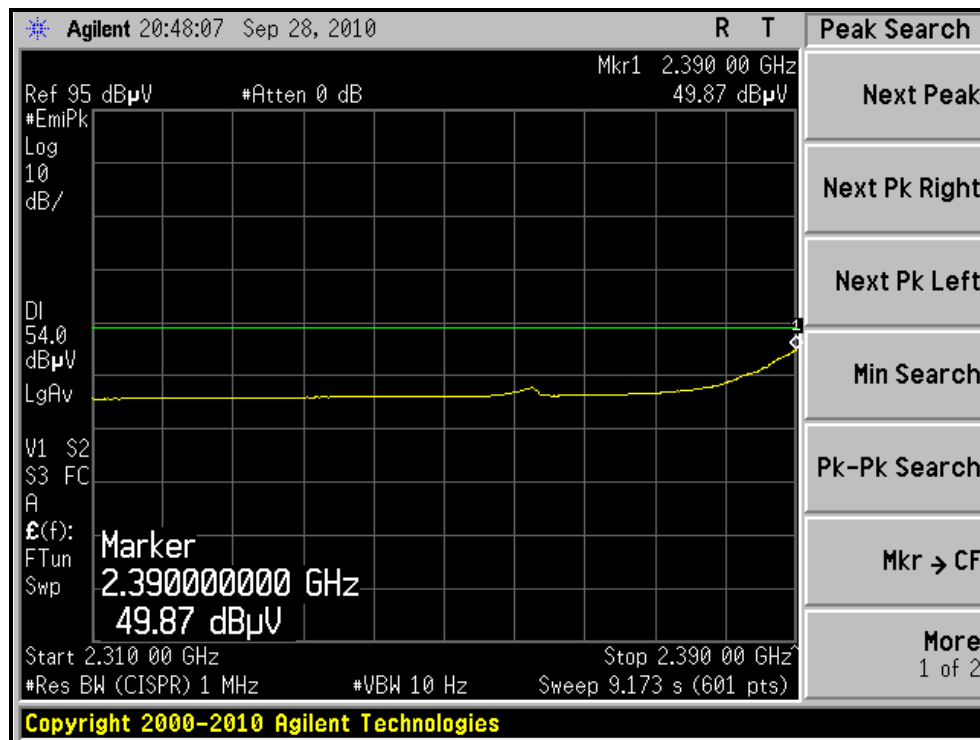
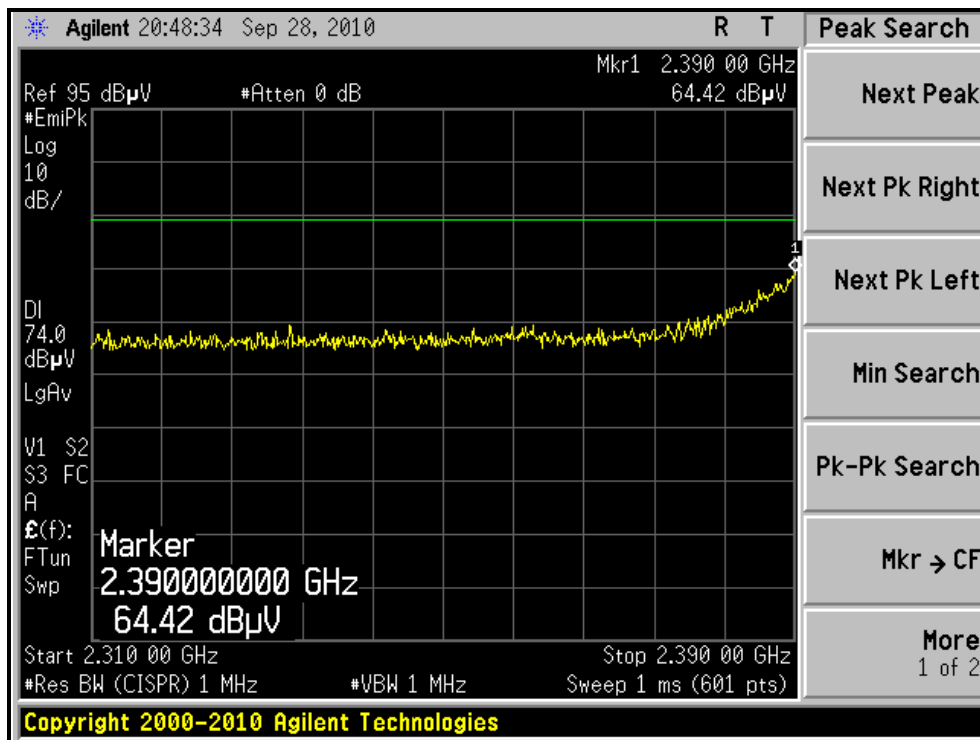
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.7 PK			1.35 V	96	71.42	31.28
2	*2462.00	93.8 AV			1.35 V	96	62.52	31.28
3	2483.50	60.8 PK	74.0	-13.2	1.34 V	97	29.43	31.37
4	2483.50	43.6 AV	54.0	-10.4	1.34 V	97	12.23	31.37
5	4924.00	55.0 PK	74.0	-19.0	1.30 V	134	17.65	37.35
6	4924.00	42.5 AV	54.0	-11.5	1.30 V	134	5.15	37.35
7	7386.00	51.1 PK	74.0	-22.9	1.47 V	100	6.50	44.60
8	7386.00	39.2 AV	54.0	-14.8	1.47 V	100	-5.40	44.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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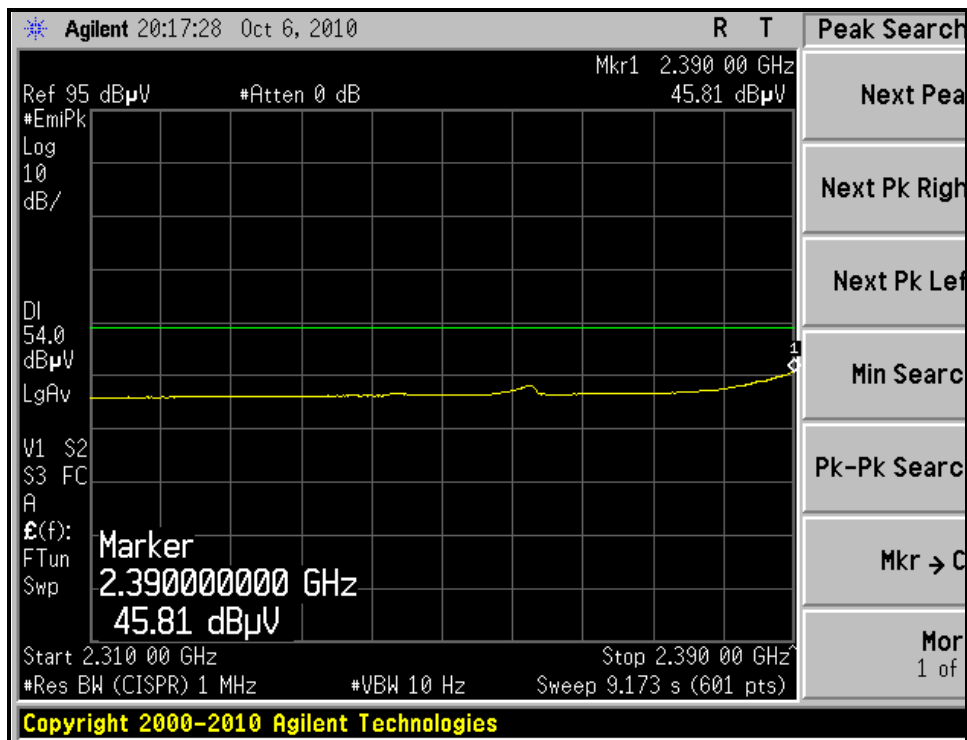
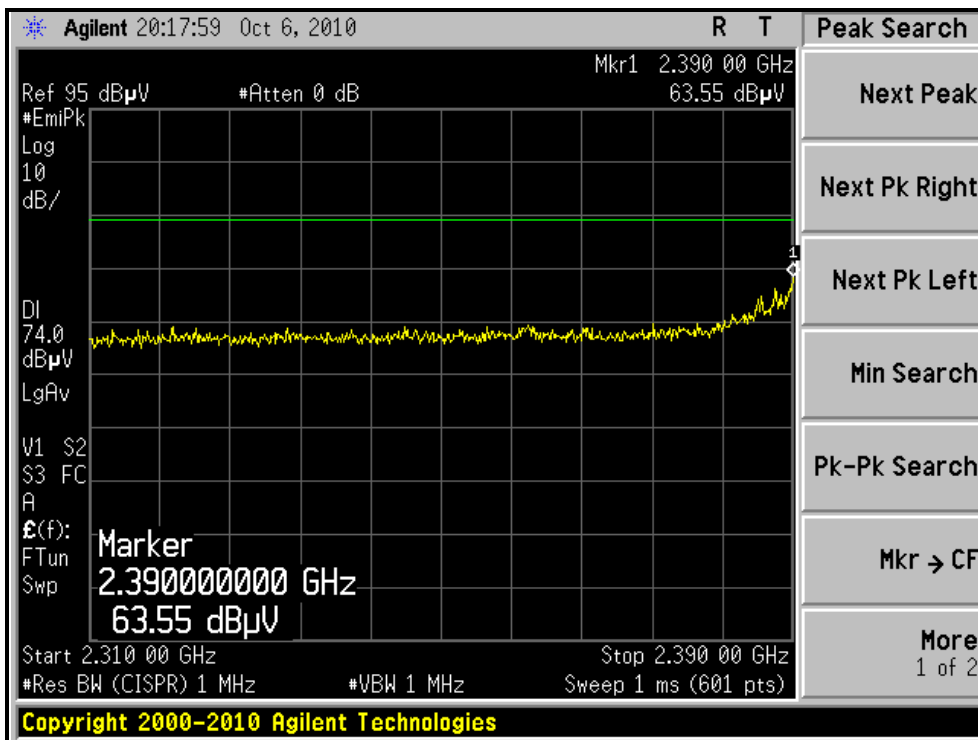
RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)





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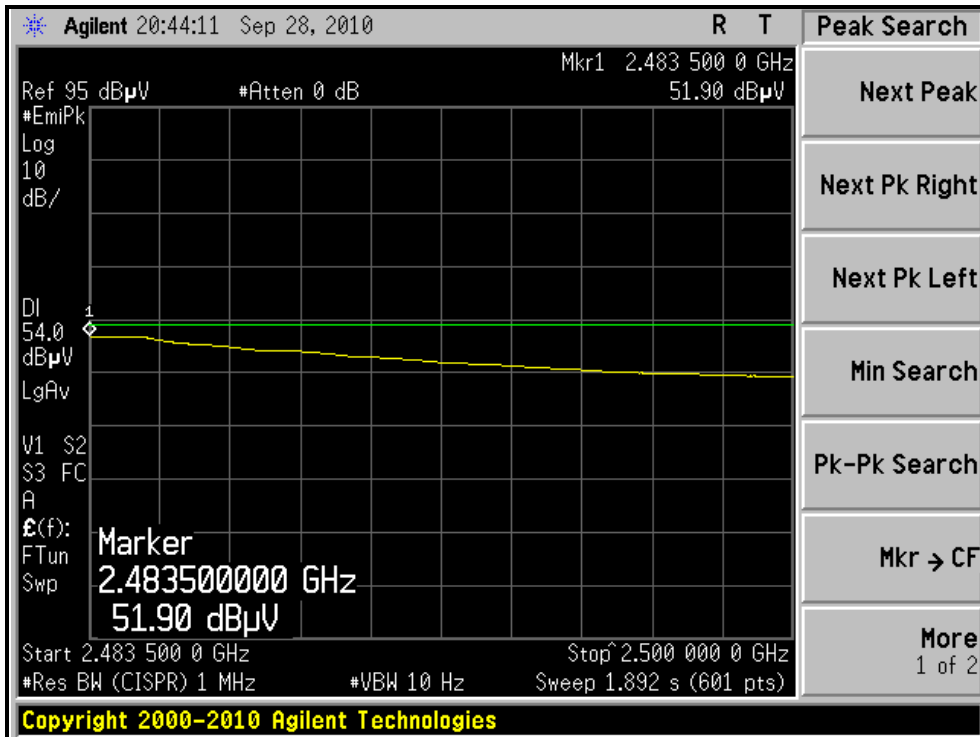
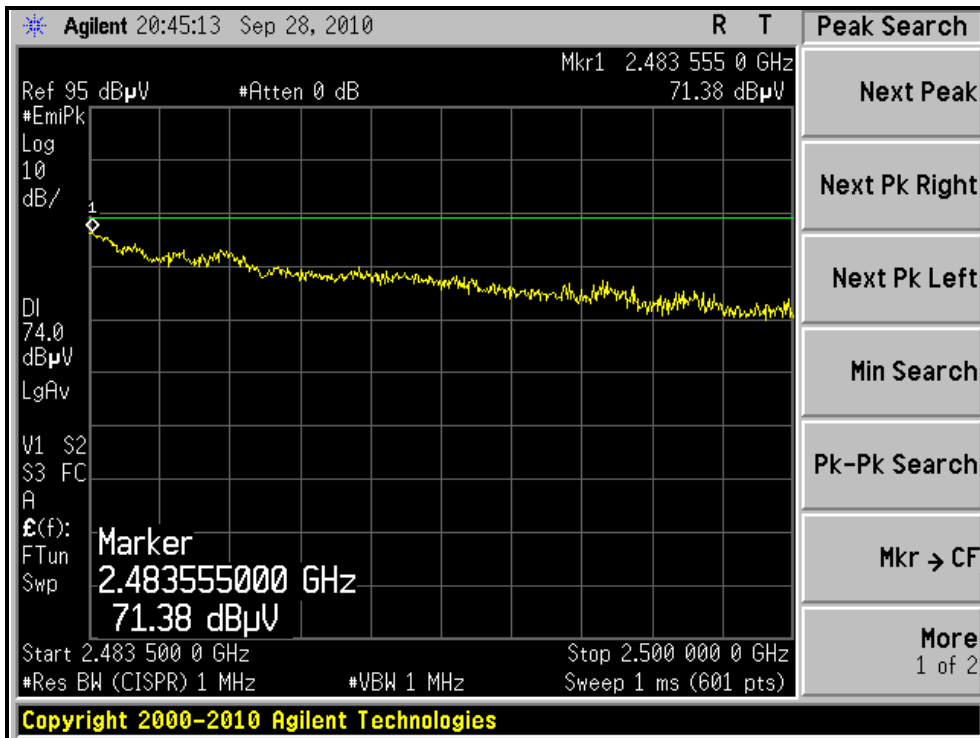
RESTRICTED BANDEDGE (802.11g MODE, CH1, VERTICAL)





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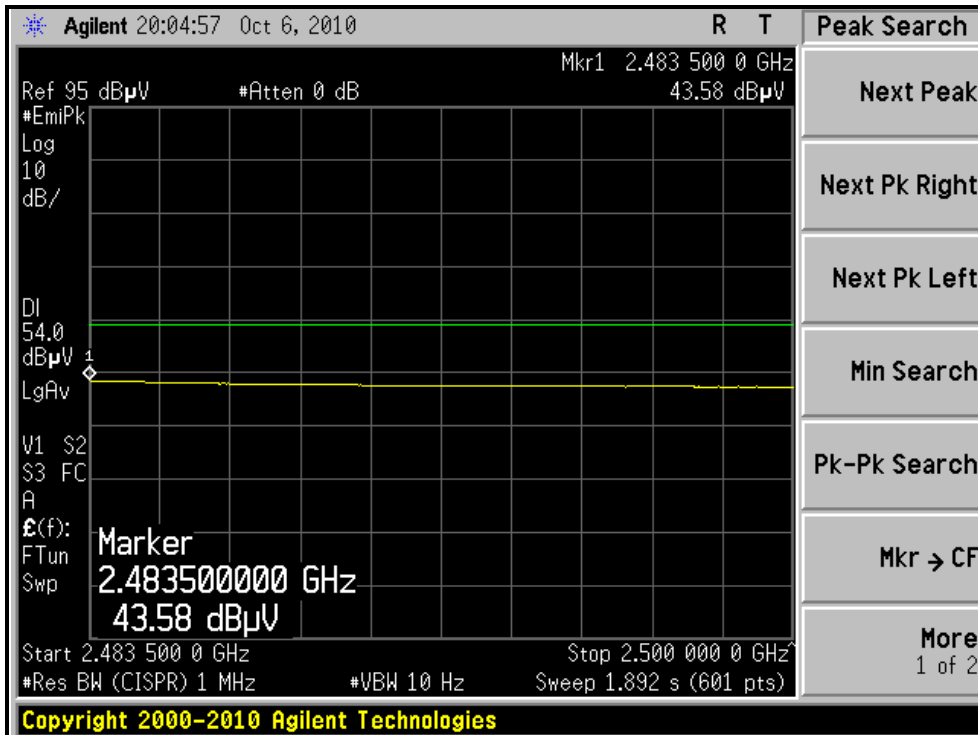
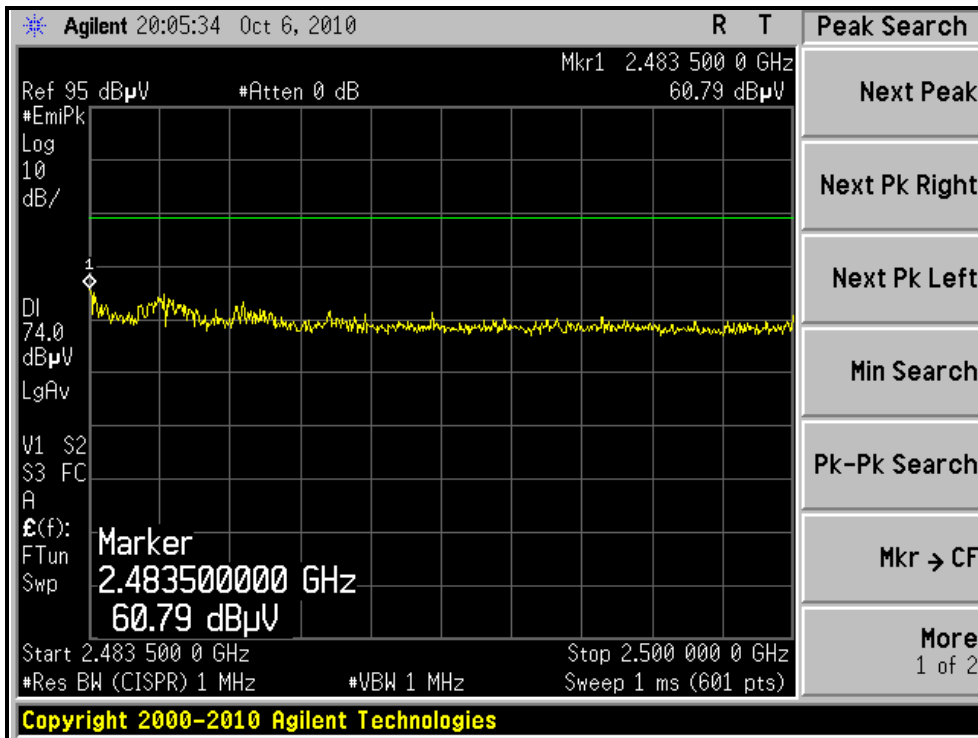
RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11g MODE, CH11, VERTICAL)





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802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.59 H	99	36.43	30.97
2	2390.00	51.2 AV	54.0	-2.8	1.59 H	99	20.23	30.97
3	*2412.00	106.8 PK			1.52 H	94	75.74	31.06
4	*2412.00	97.5 AV			1.52 H	94	66.44	31.06
5	4824.00	61.6 PK	74.0	-12.4	1.35 H	88	24.48	37.12
6	4824.00	48.2 AV	54.0	-5.8	1.35 H	88	11.08	37.12
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.5 PK	74.0	-11.5	1.38 V	97	31.53	30.97
2	2390.00	46.4 AV	54.0	-7.6	1.38 V	97	15.43	30.97
3	*2412.00	102.8 PK			1.36 V	95	71.74	31.06
4	*2412.00	93.9 AV			1.36 V	95	62.84	31.06
5	4824.00	58.2 PK	74.0	-15.8	1.30 V	134	21.08	37.12
6	4824.00	44.4 AV	54.0	-9.6	1.30 V	134	7.28	37.12

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.8 PK			1.51 H	96	77.63	31.17
2	*2437.00	100.2 AV			1.51 H	96	69.03	31.17
3	4874.00	59.2 PK	74.0	-14.8	1.35 H	88	21.97	37.23
4	4874.00	45.5 AV	54.0	-8.5	1.35 H	88	8.27	37.23
5	7311.00	63.5 PK	74.0	-10.5	1.12 H	96	19.14	44.36
6	7311.00	48.3 AV	54.0	-5.7	1.12 H	96	3.94	44.36
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.1 PK			1.33 V	97	72.93	31.17
2	*2437.00	94.9 AV			1.33 V	97	63.73	31.17
3	4874.00	57.9 PK	74.0	-16.1	1.30 V	134	20.67	37.23
4	4874.00	44.2 AV	54.0	-9.8	1.30 V	134	6.97	37.23
5	7311.00	51.6 PK	74.0	-22.4	1.47 V	102	7.24	44.36
6	7311.00	39.7 AV	54.0	-14.3	1.47 V	102	-4.66	44.36

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

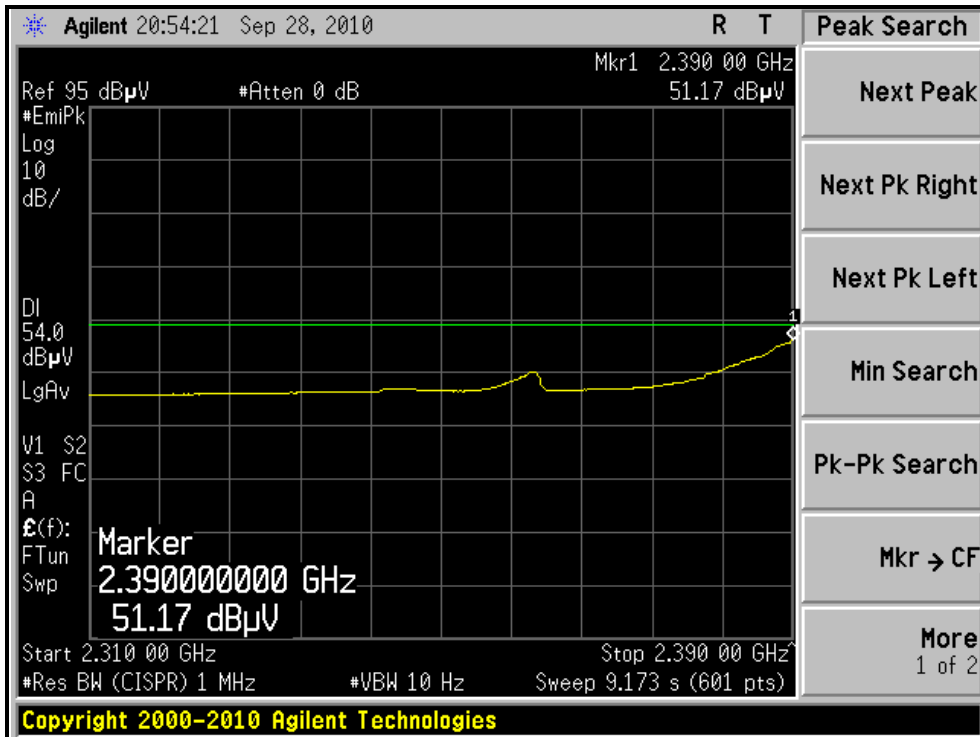
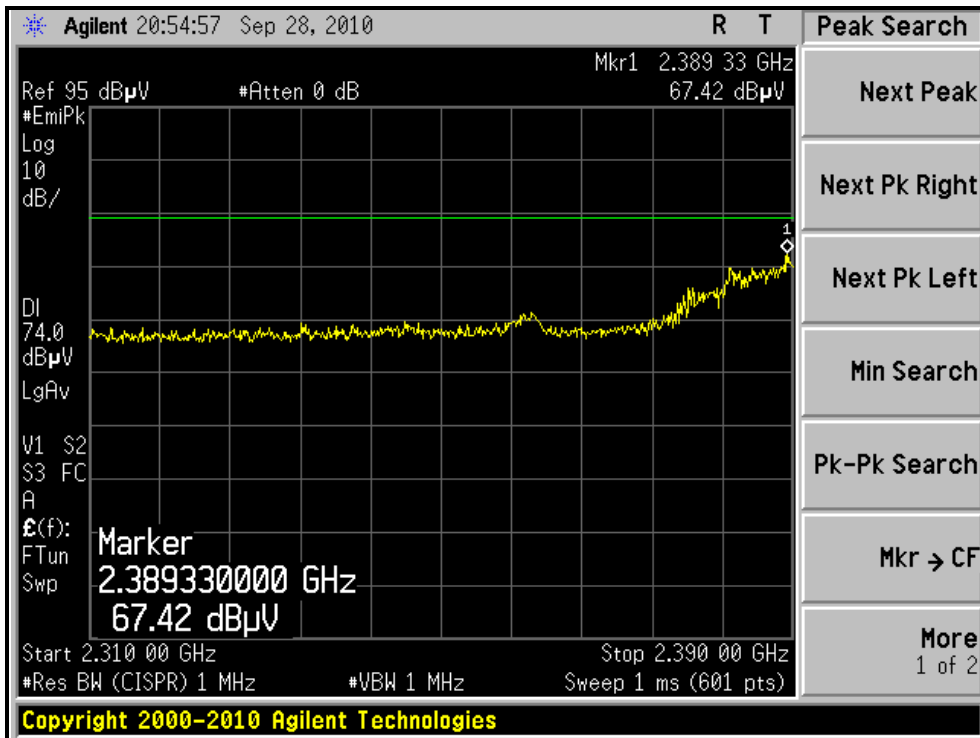
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.9 PK			1.50 H	97	77.62	31.28
2	*2462.00	99.5 AV			1.50 H	97	68.22	31.28
3	2483.50	73.2 PK	74.0	-0.8	1.50 H	99	41.83	31.37
4	2483.50	51.9 AV	54.0	-2.1	1.50 H	99	20.53	31.37
5	4924.00	54.4 PK	74.0	-19.6	1.30 H	90	17.05	37.35
6	4924.00	40.4 AV	54.0	-13.6	1.30 H	90	3.05	37.35
7	7386.00	60.5 PK	74.0	-13.5	1.11 H	96	15.90	44.60
8	7386.00	47.1 AV	54.0	-6.9	1.11 H	96	2.50	44.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.6 PK			1.35 V	95	71.32	31.28
2	*2462.00	93.4 AV			1.35 V	95	62.12	31.28
3	2483.50	61.4 PK	74.0	-12.6	1.35 V	96	30.03	31.37
4	2483.50	44.0 AV	54.0	-10.0	1.35 V	96	12.63	31.37
5	4924.00	57.4 PK	74.0	-16.6	1.29 V	133	20.05	37.35
6	4924.00	43.8 AV	54.0	-10.2	1.29 V	133	6.45	37.35
7	7386.00	51.3 PK	74.0	-22.7	1.50 V	100	6.70	44.60
8	7386.00	39.4 AV	54.0	-14.6	1.50 V	100	-5.20	44.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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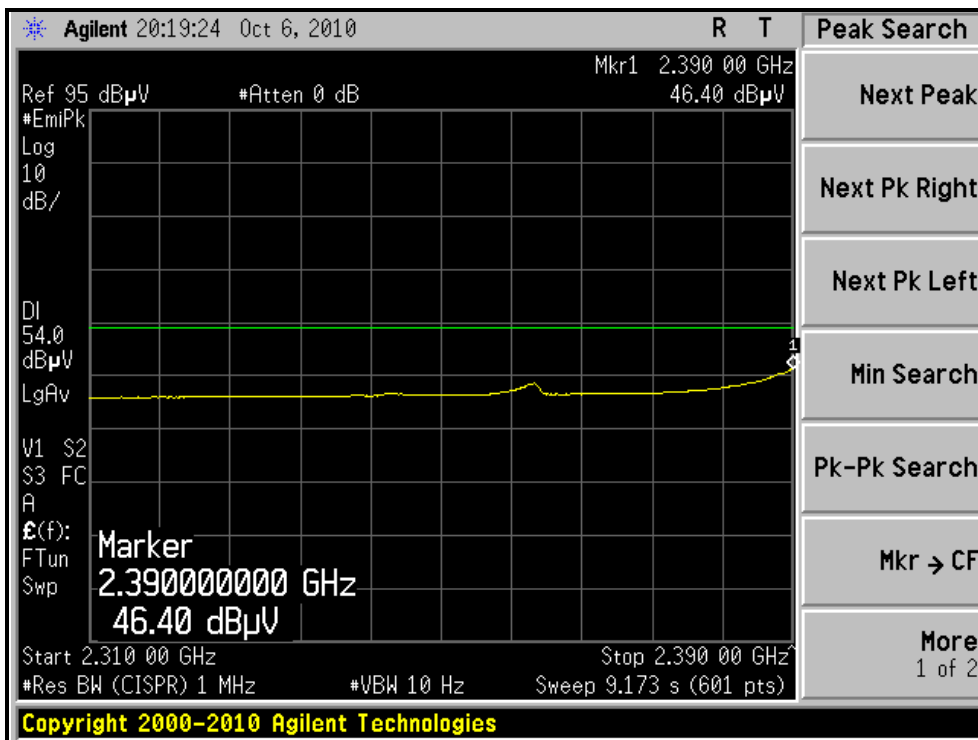
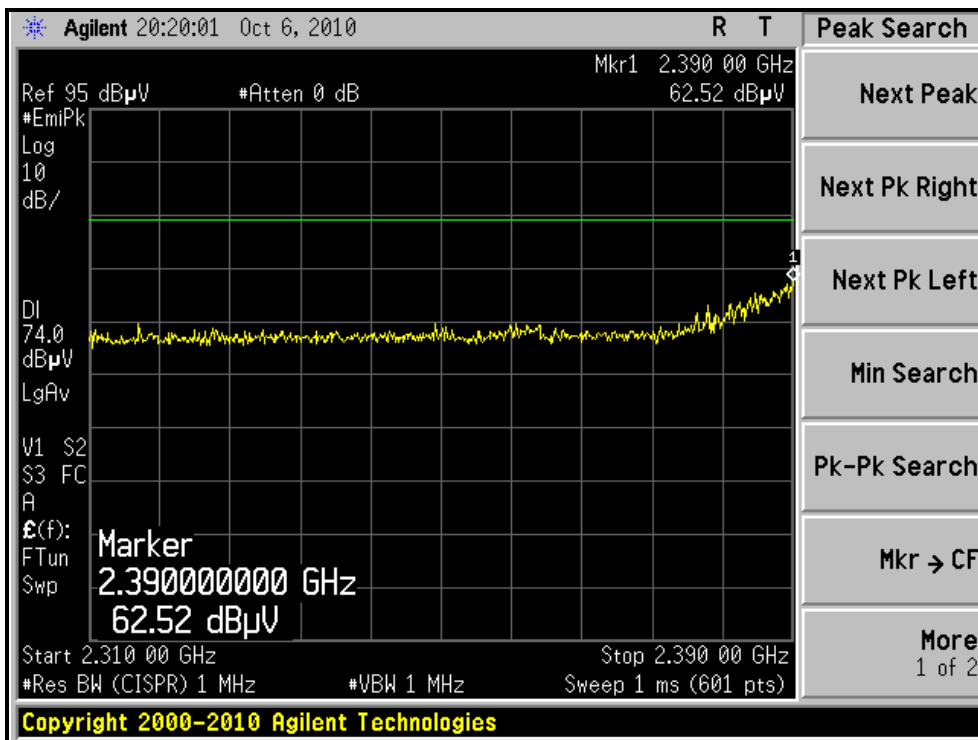
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH1, HORIZONTAL)





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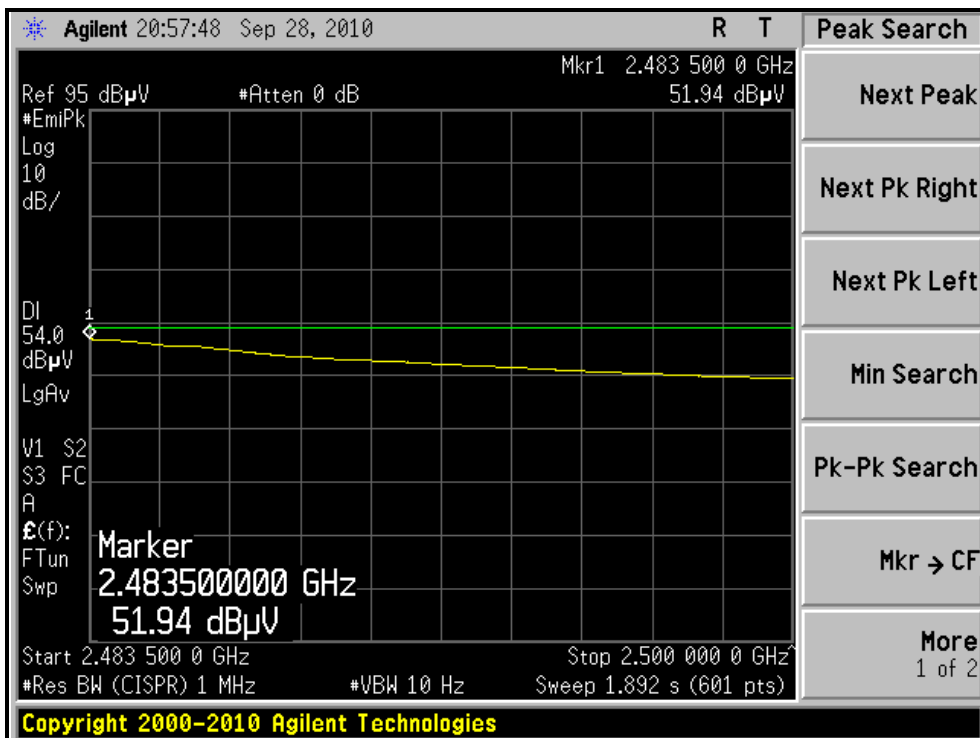
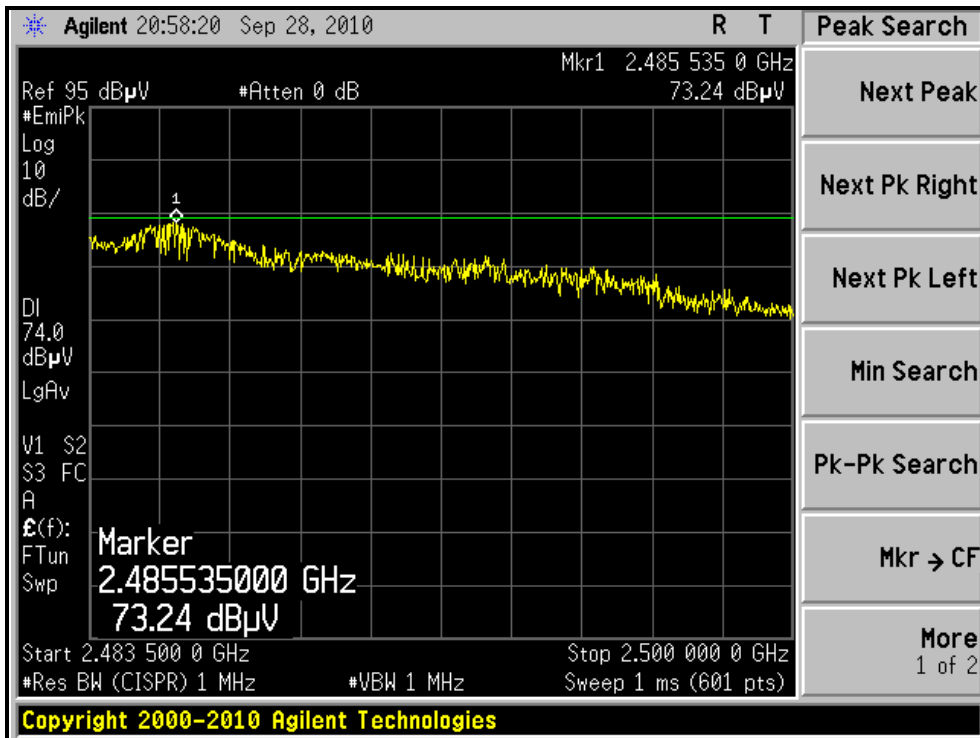
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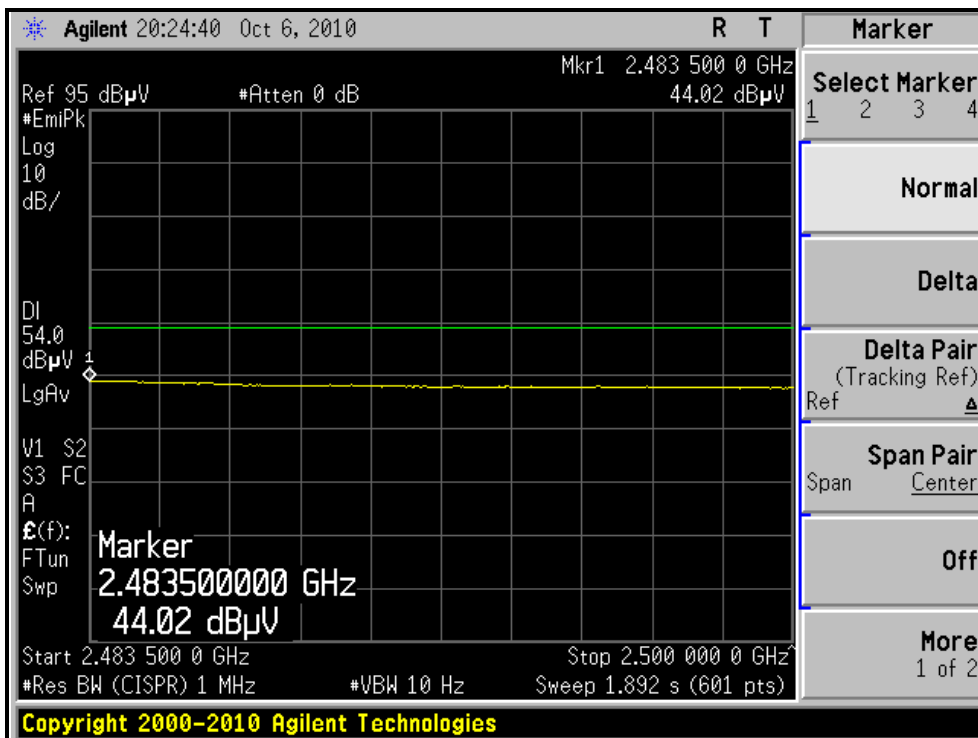
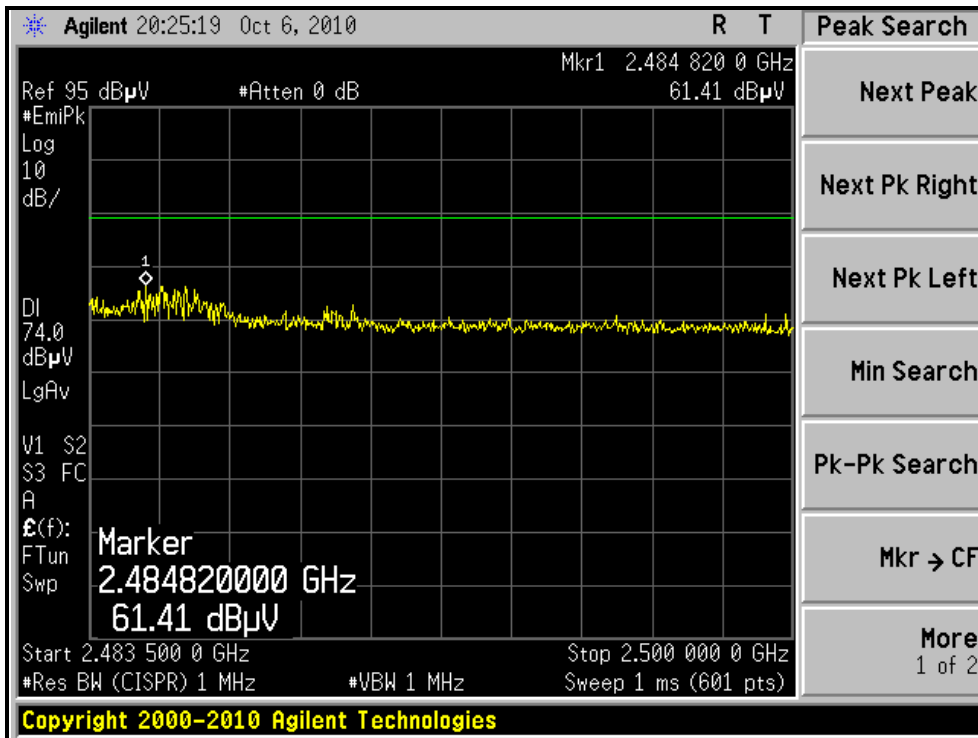
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH11, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH11, VERTICAL)





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802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.7 PK	74.0	-2.3	1.59 H	97	40.73	30.97
2	2390.00	52.9 AV	54.0	-1.1	1.59 H	97	21.93	30.97
3	*2422.00	105.4 PK			1.50 H	97	74.30	31.10
4	*2422.00	95.6 AV			1.50 H	97	64.50	31.10
5	4844.00	55.7 PK	74.0	-18.3	1.36 H	91	18.54	37.16
6	4844.00	44.4 AV	54.0	-9.6	1.36 H	91	7.24	37.16
7	7266.00	58.1 PK	74.0	-15.9	1.05 H	94	13.88	44.22
8	7266.00	46.1 AV	54.0	-7.9	1.05 H	94	1.88	44.22

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.5 PK	74.0	-9.5	1.36 V	95	33.53	30.97
2	2390.00	46.9 AV	54.0	-7.1	1.36 V	95	15.93	30.97
3	*2422.00	101.0 PK			1.35 V	95	69.90	31.10
4	*2422.00	91.8 AV			1.35 V	95	60.70	31.10
5	4844.00	52.6 PK	74.0	-21.4	1.29 V	134	15.44	37.16
6	4844.00	41.7 AV	54.0	-12.3	1.29 V	134	4.54	37.16
7	7266.00	51.4 PK	74.0	-22.6	1.48 V	106	7.18	44.22
8	7266.00	39.5 AV	54.0	-14.5	1.48 V	106	-4.72	44.22

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.1 PK	74.0	-10.9	1.60 H	94	32.13	30.97
2	2390.00	47.5 AV	54.0	-6.5	1.60 H	94	16.53	30.97
3	*2437.00	105.2 PK			1.50 H	97	74.03	31.17
4	*2437.00	95.6 AV			1.50 H	97	64.43	31.17
5	2483.50	69.8 PK	74.0	-4.2	1.49 H	97	38.43	31.37
6	2483.50	53.1 AV	54.0	-0.9	1.49 H	97	21.73	31.37
7	4874.00	52.8 PK	74.0	-21.2	1.36 H	90	15.57	37.23
8	4874.00	41.9 AV	54.0	-12.1	1.36 H	90	4.67	37.23
9	7311.00	59.0 PK	74.0	-15.0	1.10 H	97	14.64	44.36
10	7311.00	45.7 AV	54.0	-8.3	1.10 H	97	1.34	44.36
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.8 PK			1.34 V	95	69.63	31.17
2	*2437.00	91.5 AV			1.34 V	95	60.33	31.17
3	4874.00	51.9 PK	74.0	-22.1	1.29 V	133	14.67	37.23
4	4874.00	41.0 AV	54.0	-13.0	1.29 V	133	3.77	37.23
5	7311.00	51.2 PK	74.0	-22.8	1.47 V	102	6.84	44.36
6	7311.00	39.4 AV	54.0	-14.6	1.47 V	102	-4.96	44.36

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH 1013 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.7 PK			1.50 H	97	74.47	31.23
2	*2452.00	95.1 AV			1.50 H	97	63.87	31.23
3	2484.30	67.2 PK	74.0	-6.8	1.48 H	97	35.83	31.37
4	2484.30	52.4 AV	54.0	-1.6	1.48 H	97	21.03	31.37
5	4904.00	48.6 PK	74.0	-25.4	1.32 H	88	11.30	37.30
6	4904.00	37.7 AV	54.0	-16.3	1.32 H	88	0.40	37.30
7	7356.00	55.3 PK	74.0	-18.7	1.10 H	97	10.80	44.50
8	7356.00	43.1 AV	54.0	-10.9	1.10 H	97	-1.40	44.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

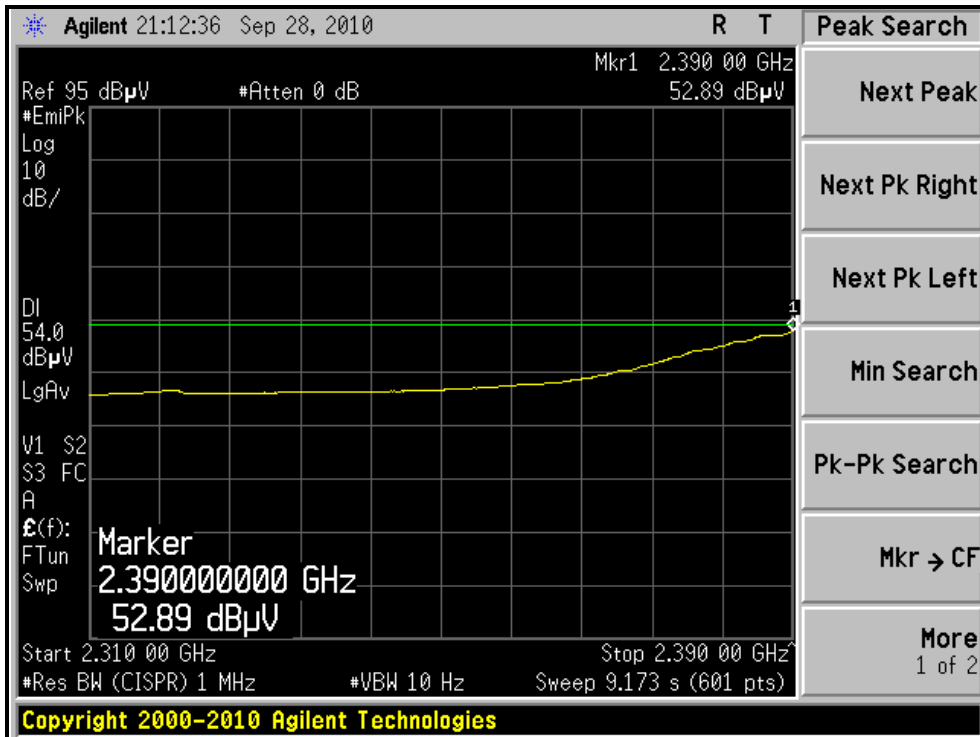
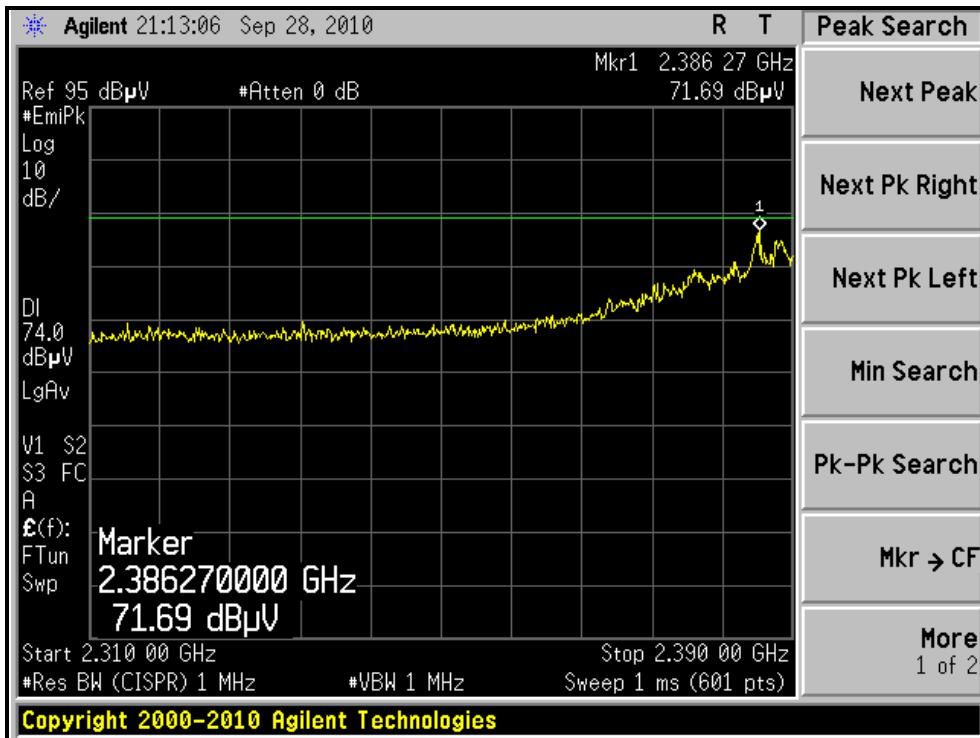
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1	*2452.00	98.6 PK			1.34 V	94	67.37	31.23
2	*2452.00	89.2 AV			1.34 V	94	57.97	31.23
3	2484.40	58.0 PK	74.0	-16.0	1.34 V	95	26.63	31.37
4	2484.40	44.1 AV	54.0	-9.9	1.34 V	95	12.73	31.37
5	4904.00	52.8 PK	74.0	-21.2	1.30 V	133	15.50	37.30
6	4904.00	41.8 AV	54.0	-12.2	1.30 V	133	4.50	37.30
7	7356.00	51.5 PK	74.0	-22.5	1.50 V	100	7.00	44.50
8	7356.00	39.9 AV	54.0	-14.1	1.50 V	100	-4.60	44.50

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



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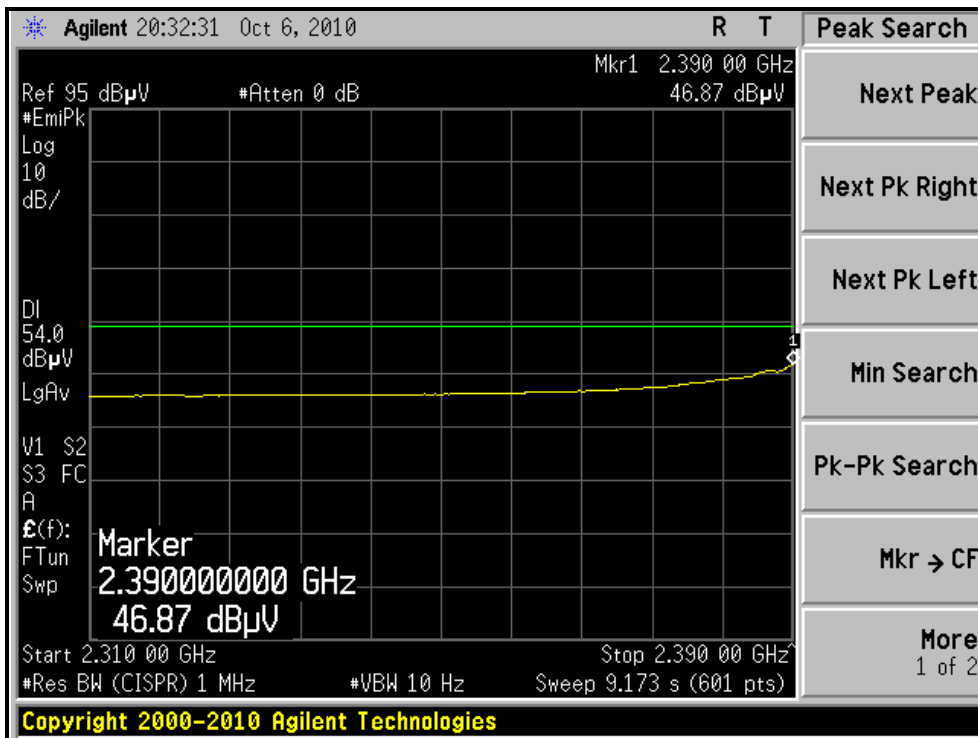
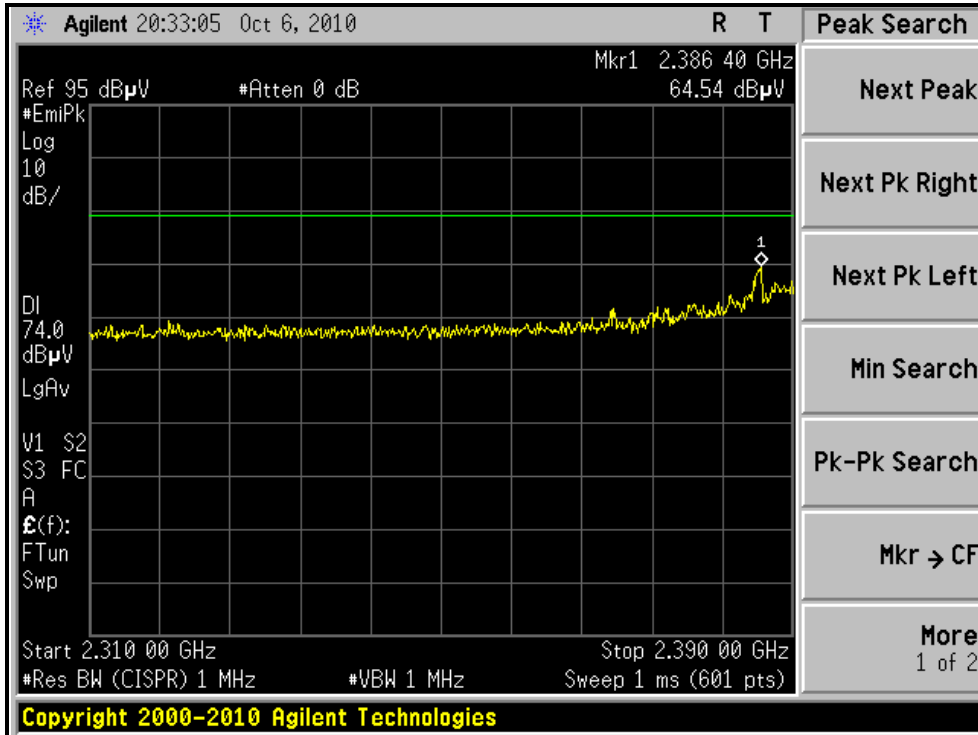
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH1, HORIZONTAL)





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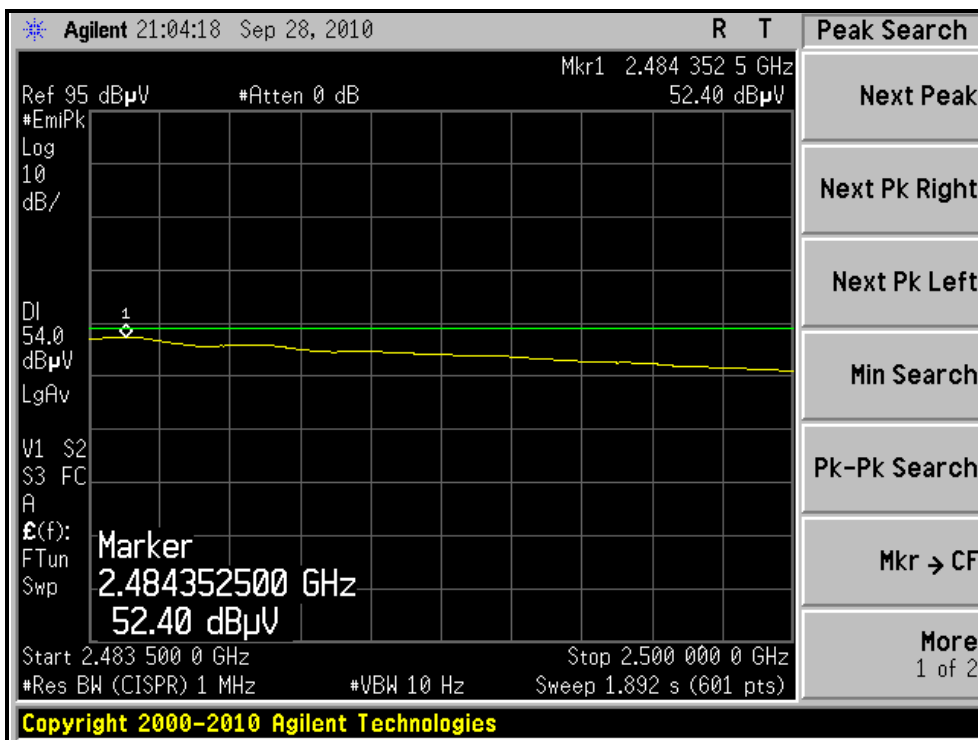
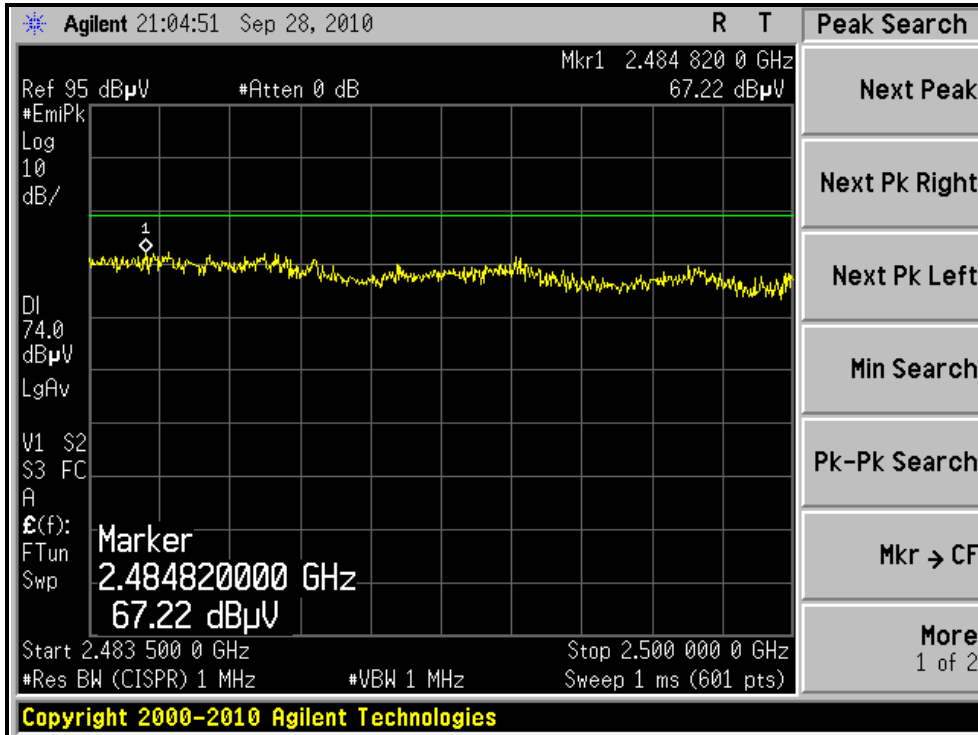
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH1, VERTICAL)





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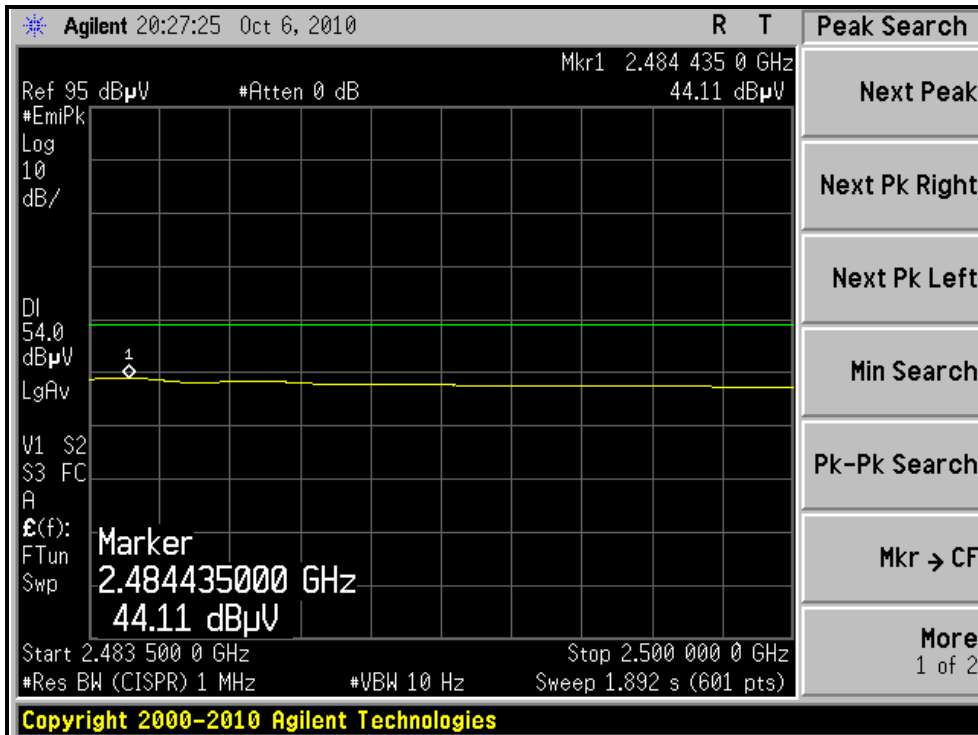
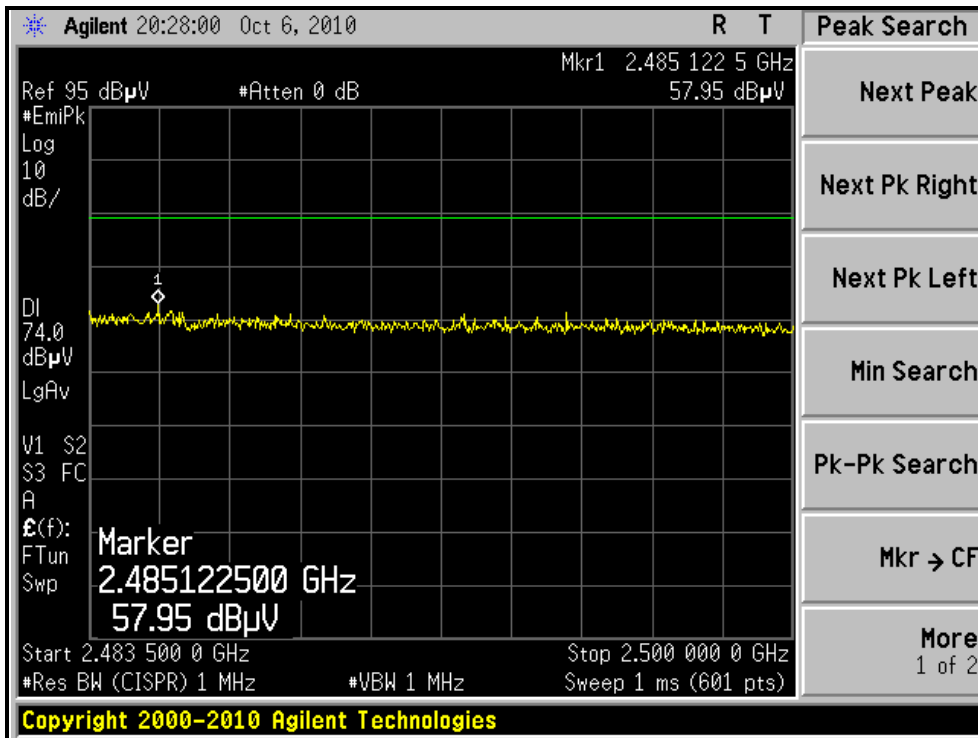
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH7, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH7, VERTICAL)



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



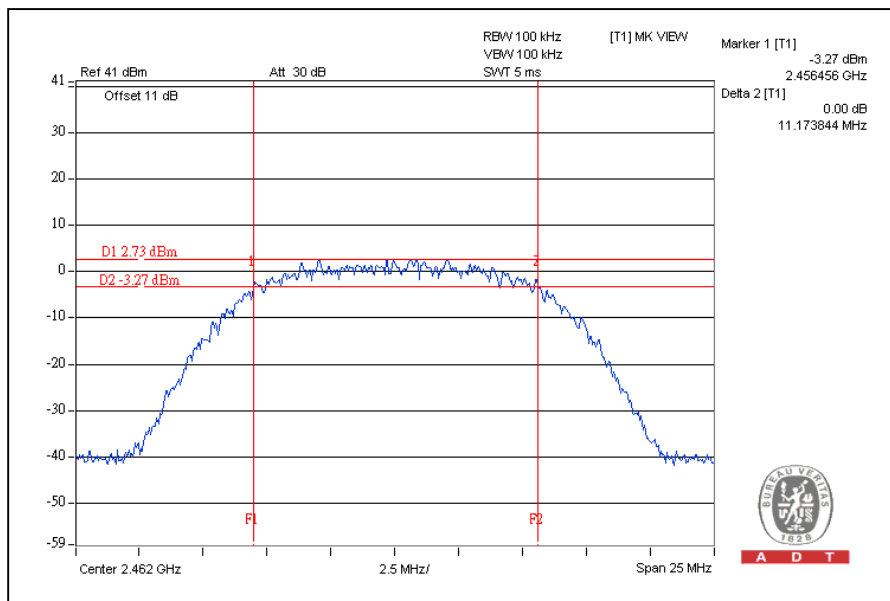
A D T

4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	10.22	0.5	PASS
6	2437	10.24	0.5	PASS
11	2462	11.17	0.5	PASS

CH11



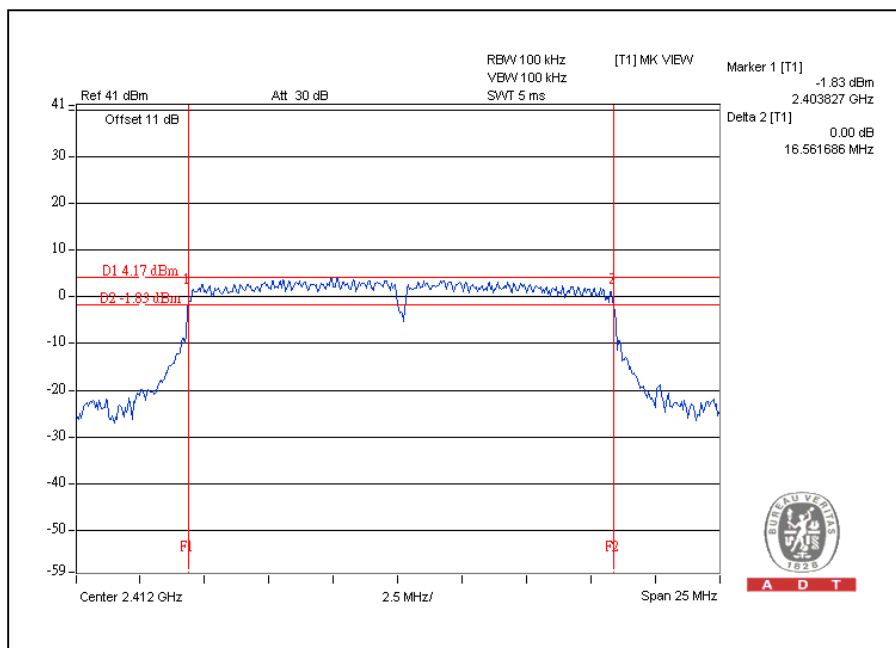


A D T

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.56	0.5	PASS
6	2437	16.54	0.5	PASS
11	2462	16.56	0.5	PASS

CH1



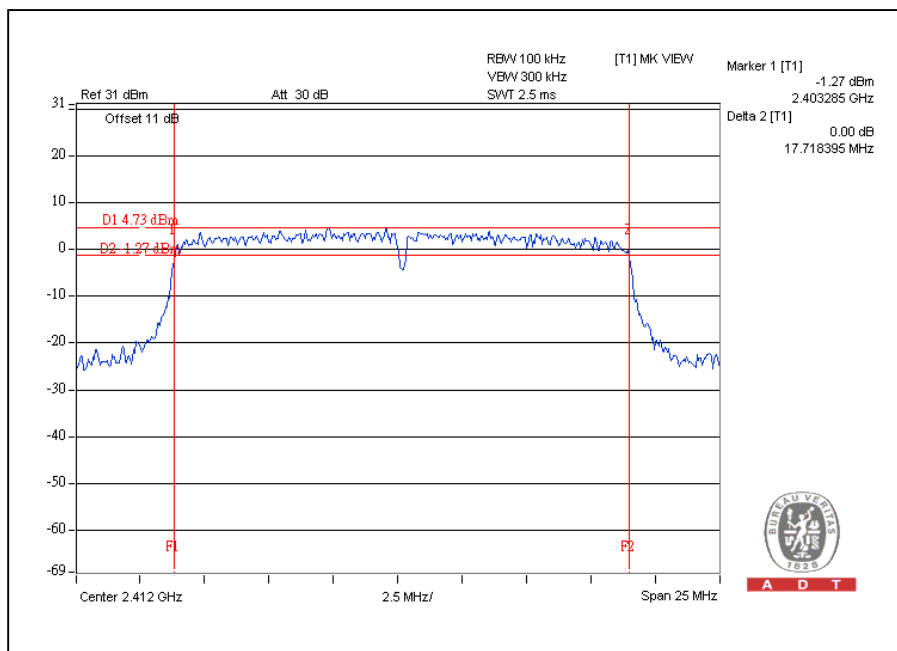


A D T

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.71	0.5	PASS
6	2437	17.67	0.5	PASS
11	2462	17.67	0.5	PASS

CH1



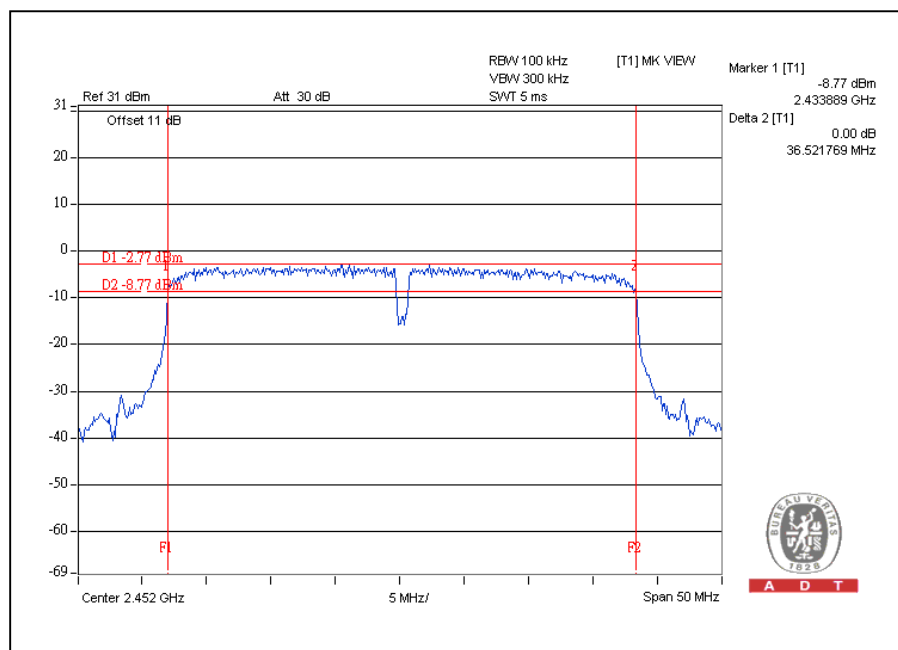


A D T

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	36.39	0.5	PASS
4	2437	36.49	0.5	PASS
7	2452	36.52	0.5	PASS

CH7



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Peak Power Meter	ML2495A	0824006	May 04, 2010	May 03, 2011
Power Sensor	MA2411B	0738172	May 04, 2010	May 03, 2011

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

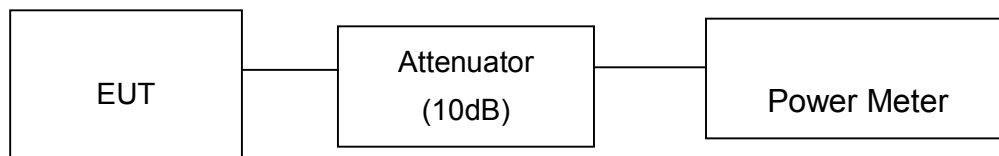
4.4.3 TEST PROCEDURES

1. The transmitter output was connected to the power meter through an attenuator; the bandwidth of the fundamental frequency was measured with the power meter.
2. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



A D T

4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	30.2	14.8	30	PASS
6	2437	33.1	15.2	30	PASS
11	2462	47.9	16.8	30	PASS

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	257.0	24.1	30	PASS
6	2437	239.9	23.8	30	PASS
11	2462	186.2	22.7	30	PASS

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	251.2	24.0	30	PASS
6	2437	208.9	23.2	30	PASS
11	2462	182.0	22.6	30	PASS

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2422	229.1	23.6	30	PASS
4	2437	199.5	23.0	30	PASS
7	2452	141.3	21.5	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

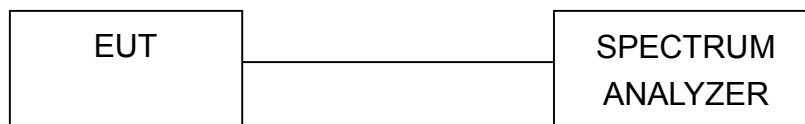
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



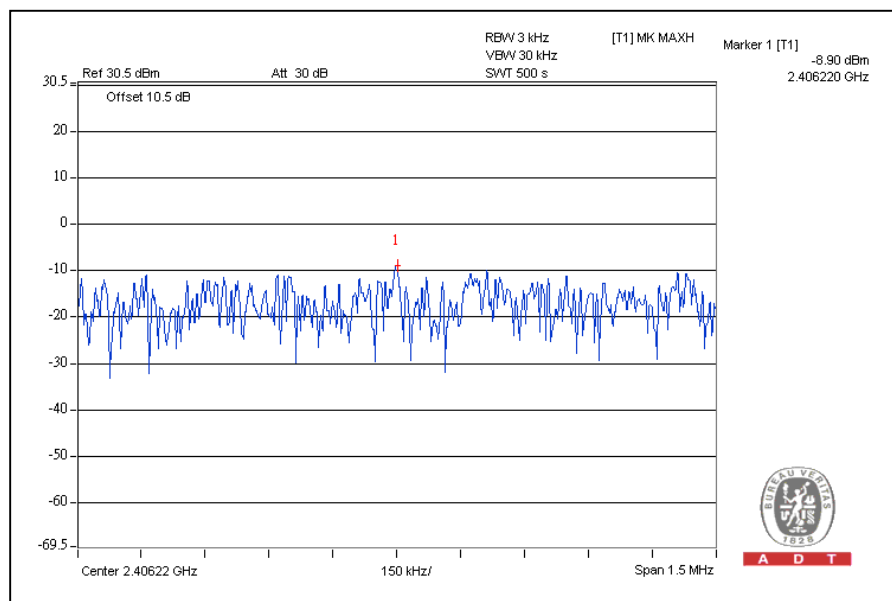
A D T

4.5.7 TEST RESULTS

802.11b DSSS MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-8.9	8	PASS
6	2437	-10.5	8	PASS
11	2462	-11.4	8	PASS

CH1



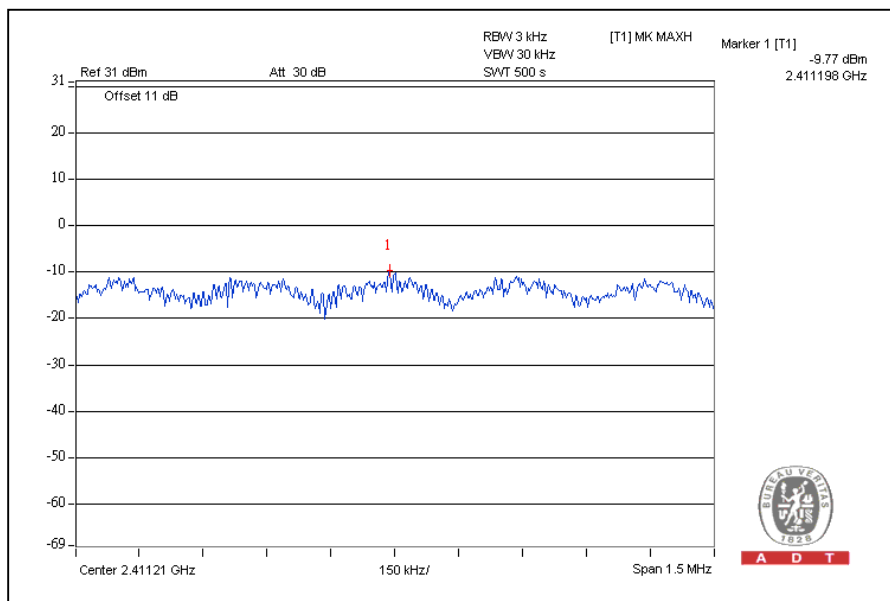


A D T

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-9.8	8	PASS
6	2437	-10.8	8	PASS
11	2462	-12.7	8	PASS

CH1



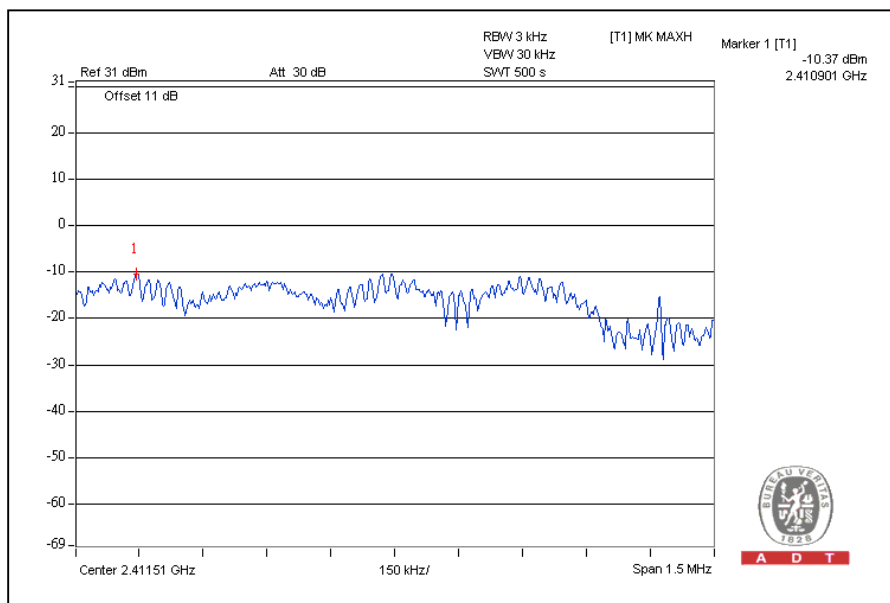


A D T

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-10.4	8	PASS
6	2437	-11.2	8	PASS
11	2462	-12.1	8	PASS

CH1



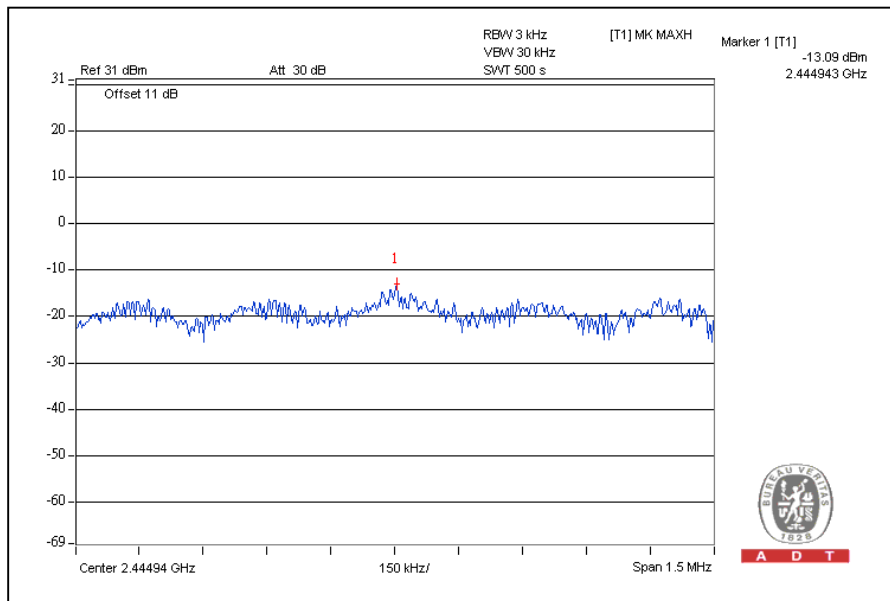


A D T

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2422	-13.7	8	PASS
4	2437	-13.1	8	PASS
7	2452	-14.7	8	PASS

CH4



4.6 CONDUCTED OUT-BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT-BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set RBW of spectrum analyzer to 100kHz and VBW of spectrum analyzer to 300kHz with suitable frequency span including 100MHz or 200MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (RBW = 100kHz, VBW = 300kHz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

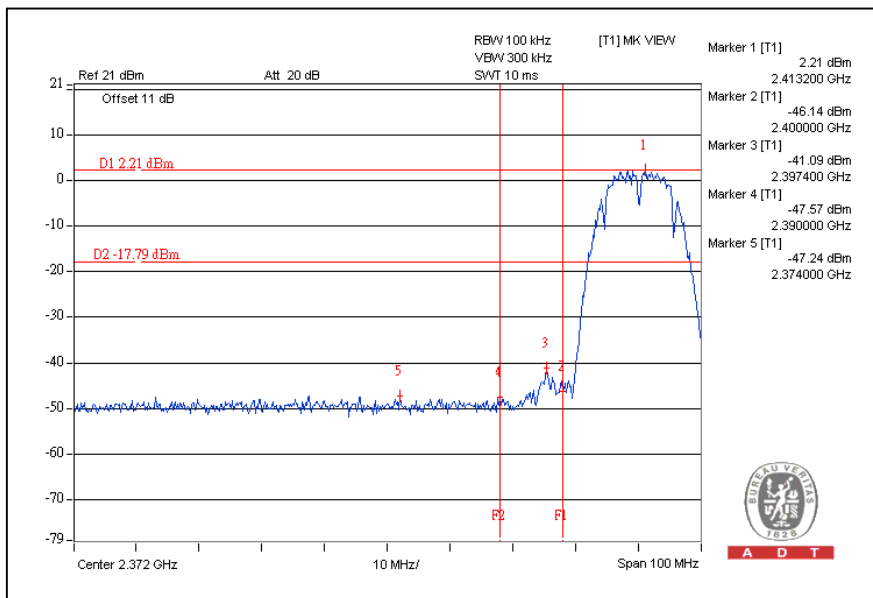
Same as Item 4.3.6

4.6.6 TEST RESULTS

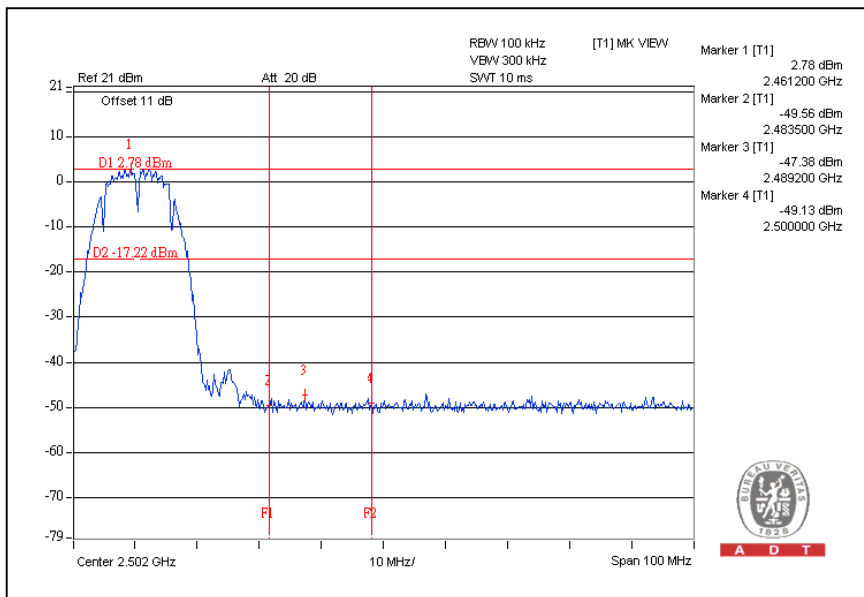
The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS MODULATION:

CH1



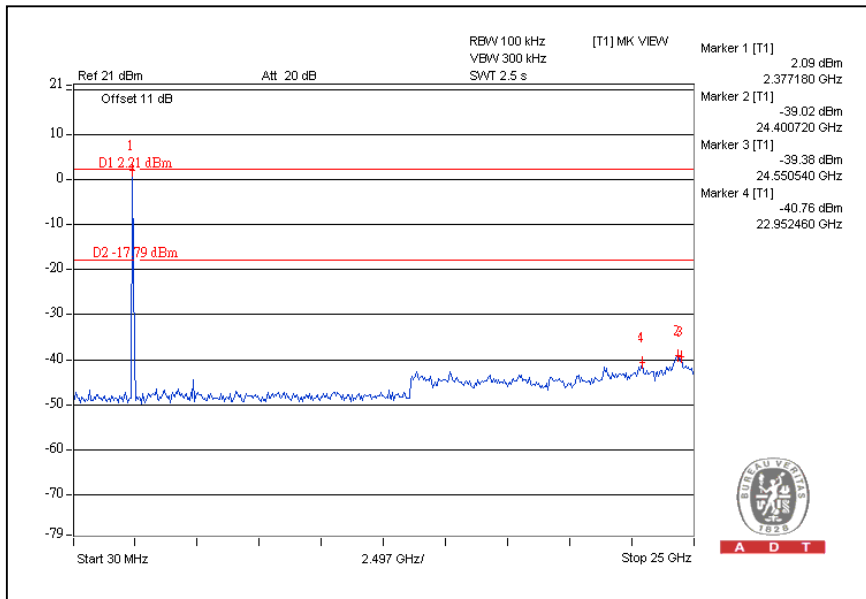
CH11



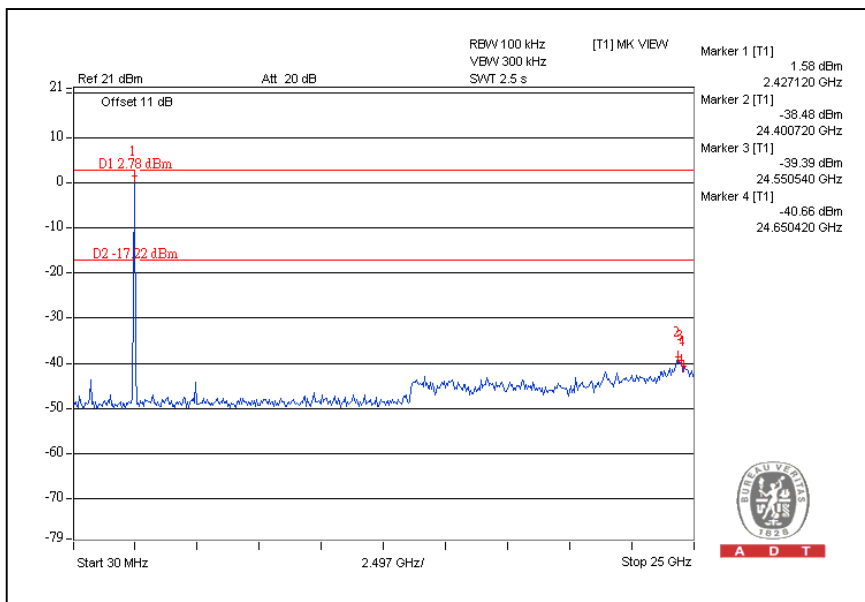


A D T

CH1

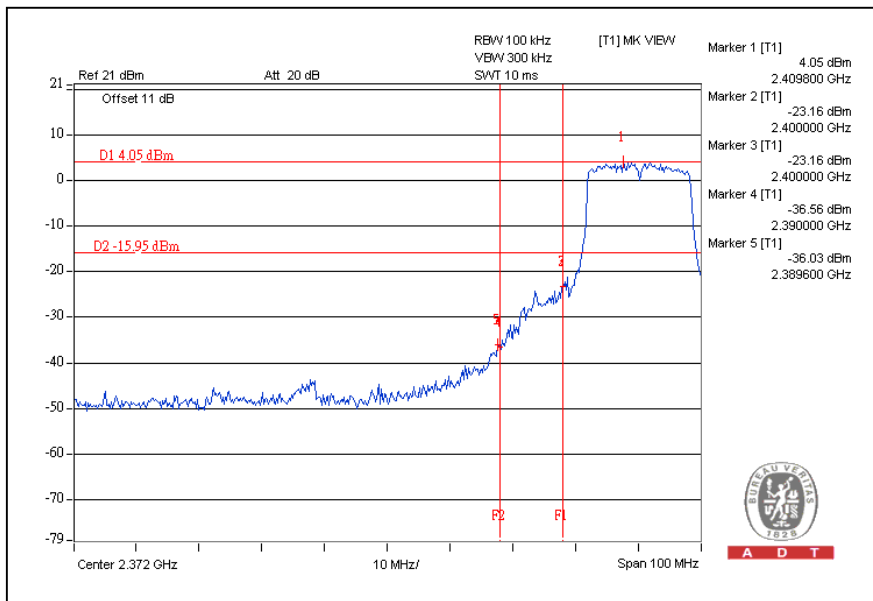


CH11

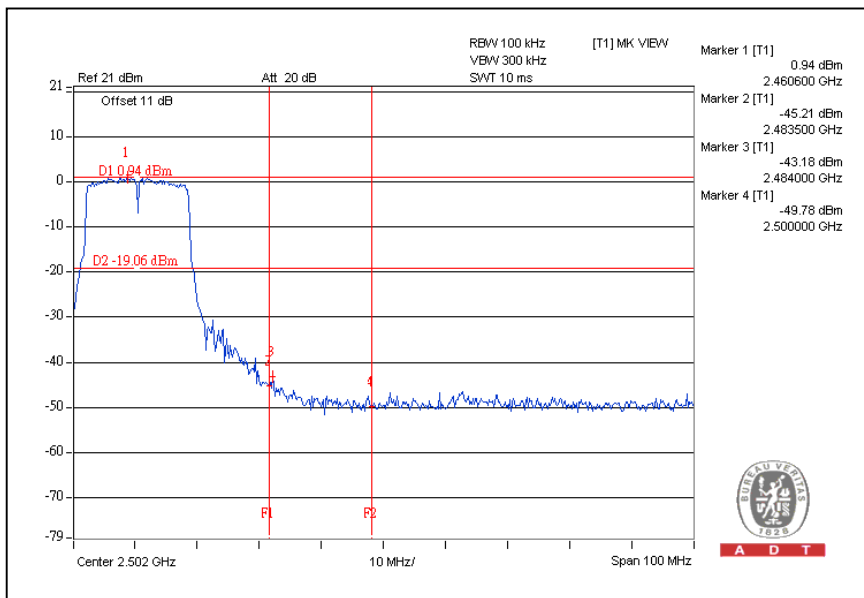


802.11g OFDM MODULATION:

CH1



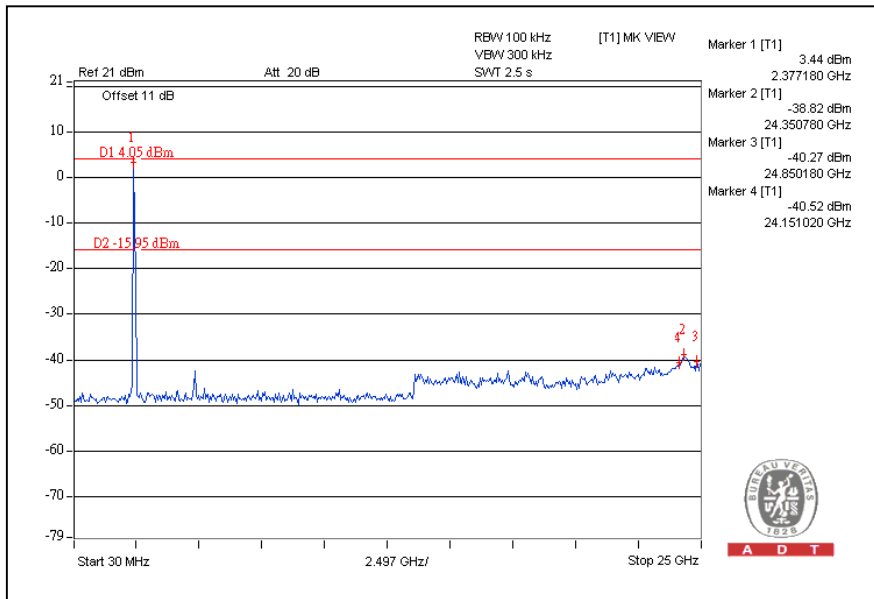
CH11



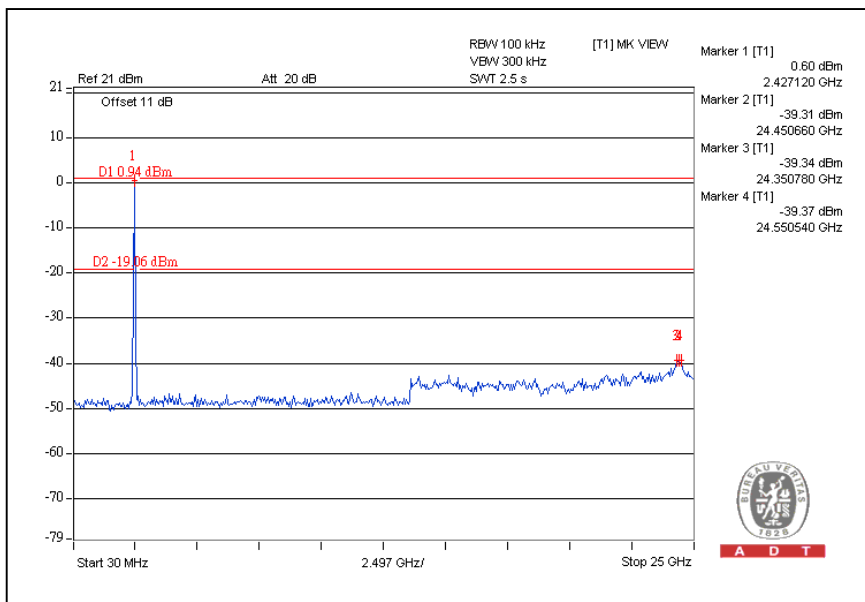


A D T

CH1

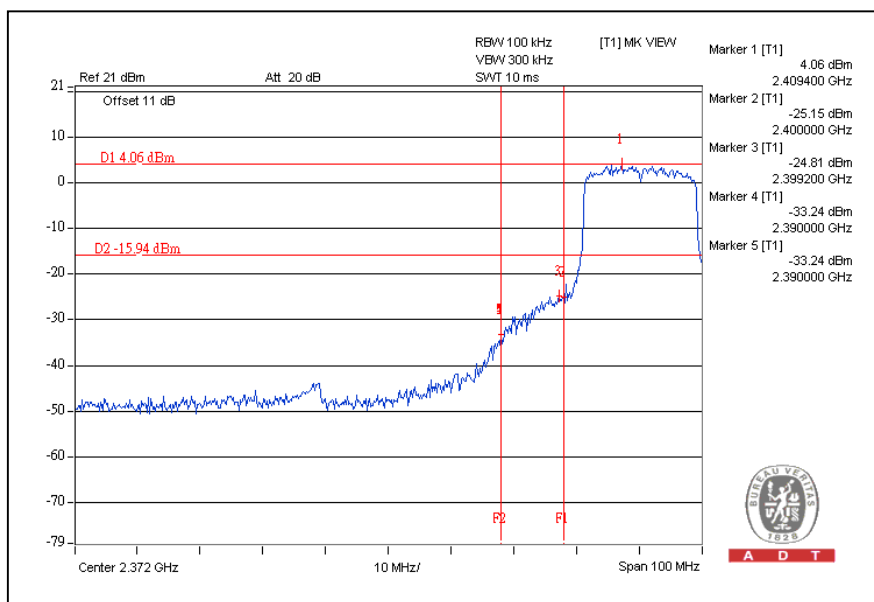


CH11

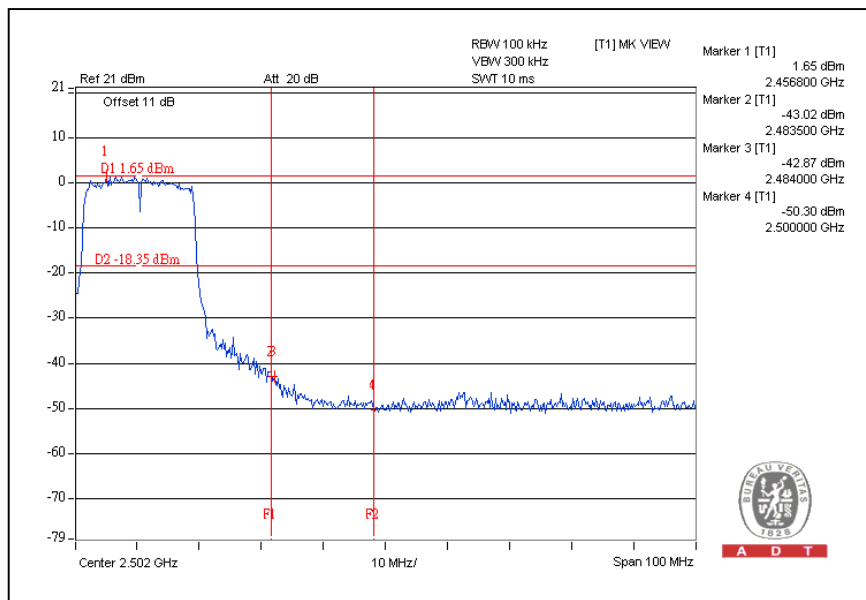


802.11n (20MHz) OFDM MODULATION:

CH1



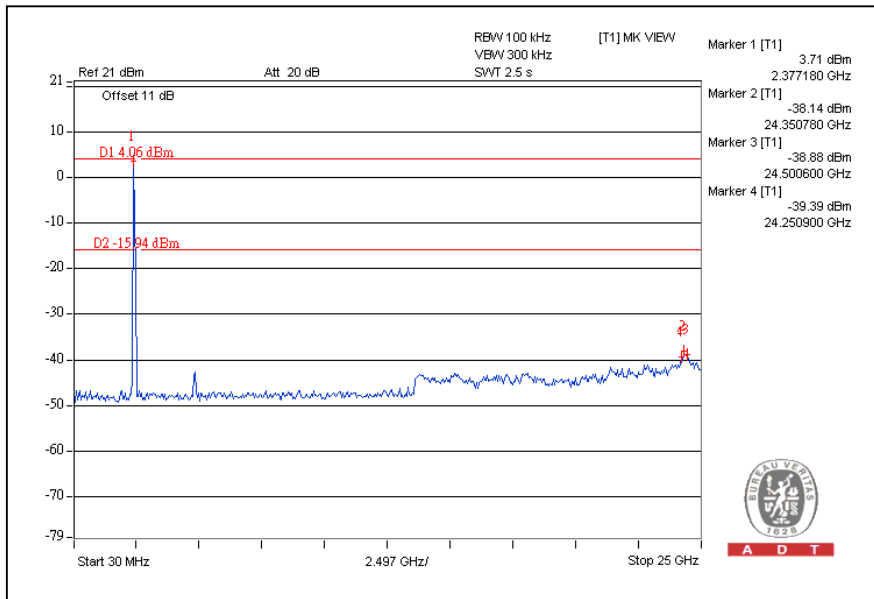
CH11



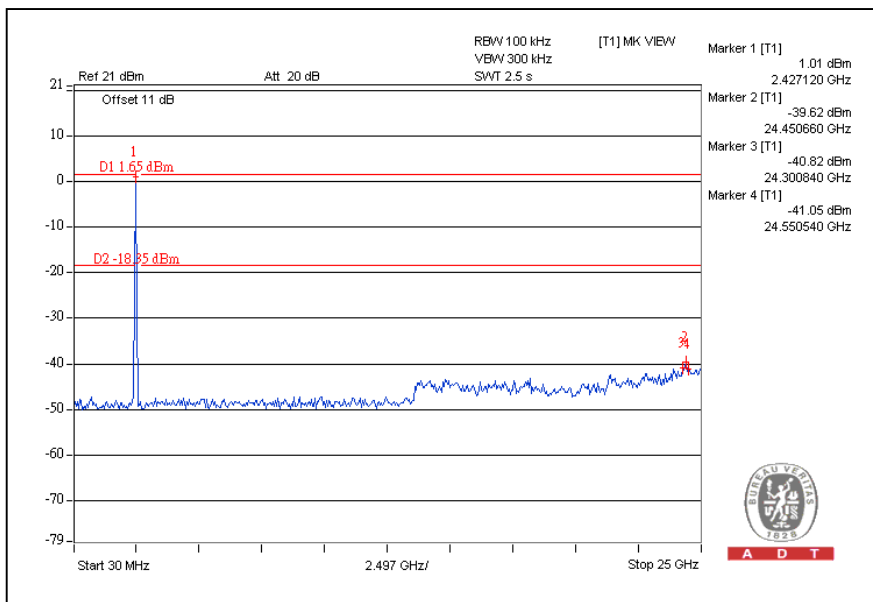


A D T

CH1

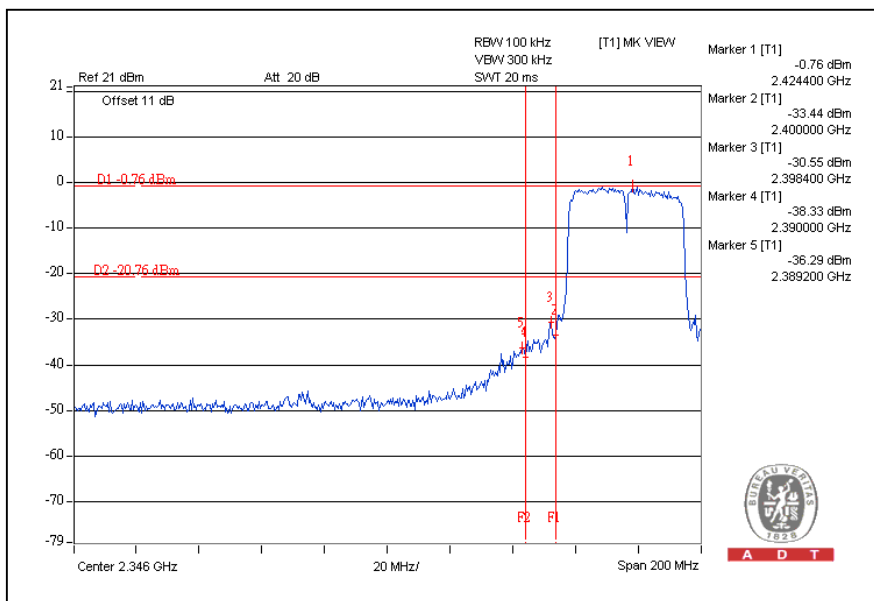


CH11

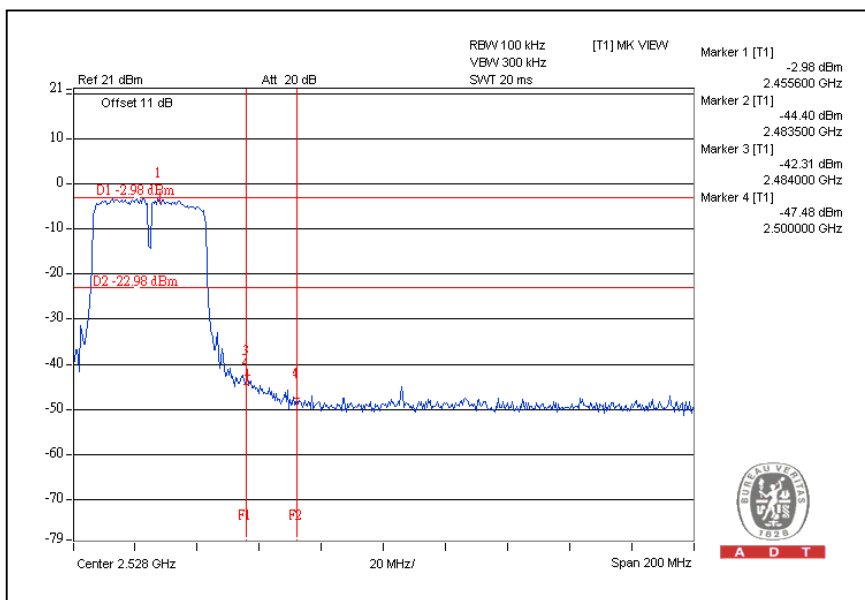


802.11n (40MHz) OFDM MODULATION:

CH1



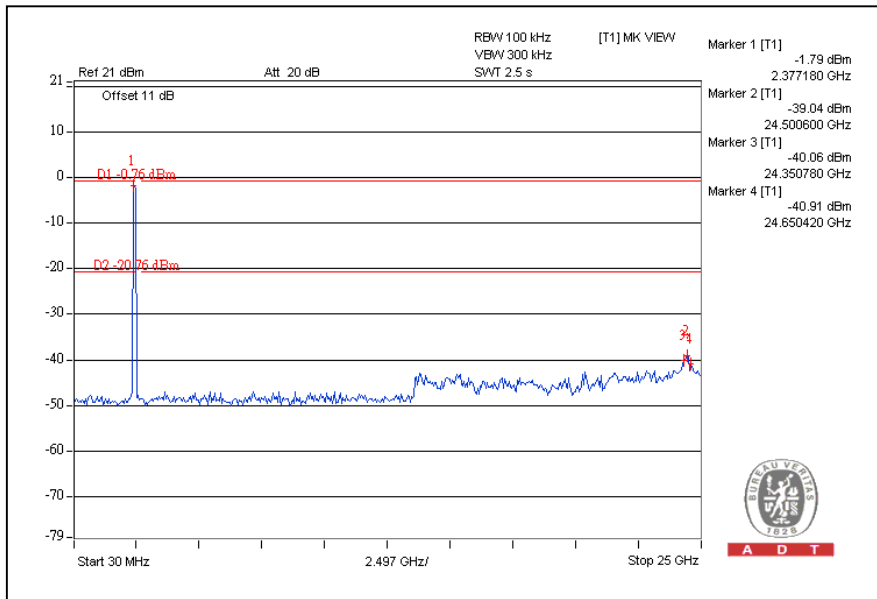
CH7



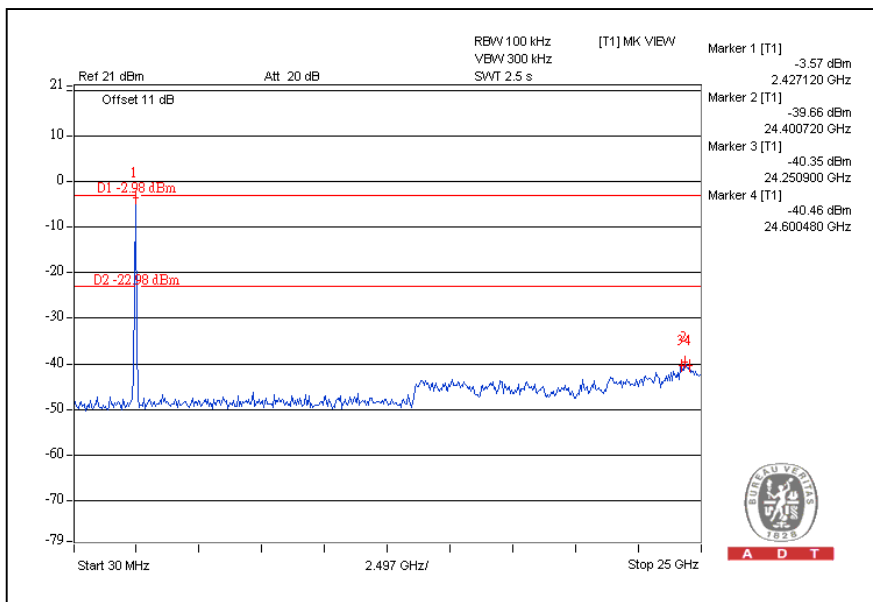


A D T

CH1



CH7





A D T

5. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Email: service@adt.com.tw

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



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6.APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

--- END ---