



FCC TEST REPORT

REPORT NO.: RF111115E07

MODEL NO.: DCS-5222L

FCC ID: KA2DCS5222L

RECEIVED: Nov. 10, 2011

TESTED: Nov. 10 to Dec. 14, 2011

ISSUED: Dec. 23, 2011

APPLICANT: D-Link Corporation

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF111115E07	Original release	Dec. 23, 2011



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1. CERTIFICATION

PRODUCT: DCS-5222L HD Wireless N Pan/Tile Network Camera
BRAND NAME: D-Link
MODEL NO.: DCS-5222L
TEST SAMPLE: R&D SAMPLE
TESTED: Nov. 10 to Dec. 14, 2011
APPLICANT: D-Link Corporation
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
ANSI C63.4-2003
ANSI C63.10-2009

The above equipment (Model: DCS-5222L) 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 : Elsie Hsu , **DATE:** Dec. 23, 2011
(Elsie Hsu, Specialist)

APPROVED BY : May Chen , **DATE:** Dec. 23, 2011
(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 -18.55dB at 0.192MHz
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 -0.9dB at 2390.00 MHz.
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	Antenna connectors are IPEX and SMA Plug Reverse not a standard connector.



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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)	3.81dB
Radiated emissions (1GHz -18GHz)	2.19 dB
Radiated emissions (18GHz -40GHz)	2.56 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	DCS-5222L HD Wireless N Pan/Tile Network Camera
MODEL NO.	DCS-5222L
FCC ID	KA2DCS5222L
POWER SUPPLY	DC 12V from power adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: Up to 11Mbps 802.11g: Up to 54Mbps 802.11n (20MHz, 800ns GI): Up to 65Mbps 802.11n (40MHz, 800ns GI): Up to 135Mbps 802.11n (20MHz, 400ns GI): Up to 72.2Mbps 802.11n (40MHz, 400ns GI): Up to 150Mbps
FREQUENCY OPERATING	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
MAXIMUM OUTPUT POWER	802.11b: 144.5mW 802.11g: 281.8mW 802.11n (20MHz): 263.0mW 802.11n (40MHz): 223.9mW
ANTENNA TYPE	Please see NOTE
DATA CABLE	RJ-45 cable (Unshielded, 1.5m)
I/O PORTS	RJ-45(Ethernet (10, 100Mbps)) port x 1 AUDIO OUT port x 1 micro SD x 1
ASSOCIATED DEVICES	Adapter x 1

NOTE:

1. There are two antennas provided to this EUT, please refer to the following table:

Antenna	Brand	Model name	Antenna Type	Peak Gain (Included Cable loss) (dBi)	Connector Type
1	HONGLIN	DSC5222L	PCB	2.34	I-PEX
2	WHA YU	C037-510825-A (SSR-72055)	Dipole	-0.8	SMA Plug Reverse



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2. The EUT must be supplied with a power adapter and following two different model names could be chosen:

Adapter	Brand	Model No.	Spec.
Adapter 1	AMIGO	AMS3-1201250FU	Input: 100-240V, 0.5A, 50-60Hz Output: 12Vdc, 1.25A DC output cable (unshielded, 3.2m) with switch
Adapter 2	CWT	CAP015121 US	Input: 100-240V, 0.5A, 47-63Hz Output: 12Vdc, 1.25A DC output cable (unshielded, 3.2m)
For the radiated emissions test, the worst case was found in adapter 1. Therefore only the test data of the adapter was recorded in this report.			

3. The EUT is 1 * 1 spatial SISO (1Tx & 1Rx) without beam forming function and EUT has diversity function.
4. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 7.
5. When Ethernet port is connected to Host unit, the EUT wireless function will be disabled.
6. 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.

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
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO					DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	OB	
A	√	√	√	√	√	With antenna 1 + Adapter 1
B	√	-	-	-	-	With antenna 1 + Adapter 2
C	-	√	√	-	-	With antenna 2 + Adapter 1

Where **PLC**: Power Line Conducted Emission **RE < 1G**: Radiated Emission below 1GHz
RE ≥ 1G: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement
OB: Conducted Out-Band Emission 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)	COMBINATION MODE
802.11g	1 to 11	6	OFDM	BPSK	6.5	A, B

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)	COMBINATION MODE
802.11g	1 to 11	6	OFDM	BPSK	6.5	A, C



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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)	COMBINATION MODE
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	A, C
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	A, C
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	A, C
802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.5	A, C

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)	COMBINATION MODE
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	A
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	A
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	A
802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.5	A

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)	COMBINATION MODE
802.11b	1 to 11	1, 11	DSSS	DBPSK	1	A
802.11g	1 to 11	1, 11	OFDM	BPSK	6	A
802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5	A
802.11n (40MHz)	3 to 9	3, 9	OFDM	BPSK	13.5	A



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※ **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
PLC	25deg. C, 66%RH	120Vac, 60Hz	Kyle Huang
RE ³ 1G	22deg. C, 78%RH	120Vac, 60Hz	Amos Chuang
RE<1G	24deg. C, 78%RH	120Vac, 60Hz	Frank Liu
APCM	25deg. C, 60%RH	120Vac, 60Hz	Kent Liu
OB	25deg. C, 60%RH	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

ANSI C63.10-2009

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.

3.4 DESCRIPTION OF SUPPORT UNITS

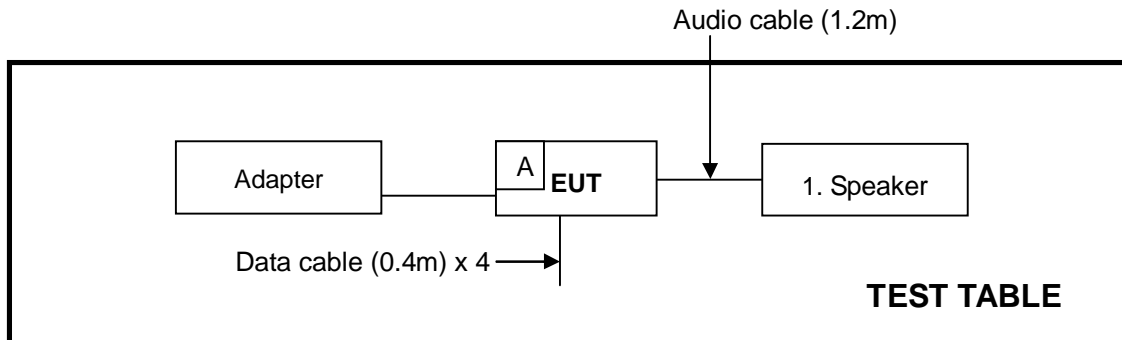
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Speaker	J-S	JY2003	090404619	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	Audio cable (1.2m)

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST



NOTE: Item A is a Micro SD Card.



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4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	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

Test date: Dec. 20, 2011

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100287	Mar. 02, 2011	Mar. 01, 2012
Line-Impedance Stabilization Network (for EUT)	NSLK 8127	8127-523	Sep. 20, 2011	Sep. 19, 2012
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100072	June 10, 2011	June 09, 2012
RF Cable (JYBAO)	5DFB	CONCAB-003	Aug. 05, 2011	Aug. 04, 2012
50 ohms Terminator	50	3	Nov. 02, 2011	Nov. 01, 2012
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.

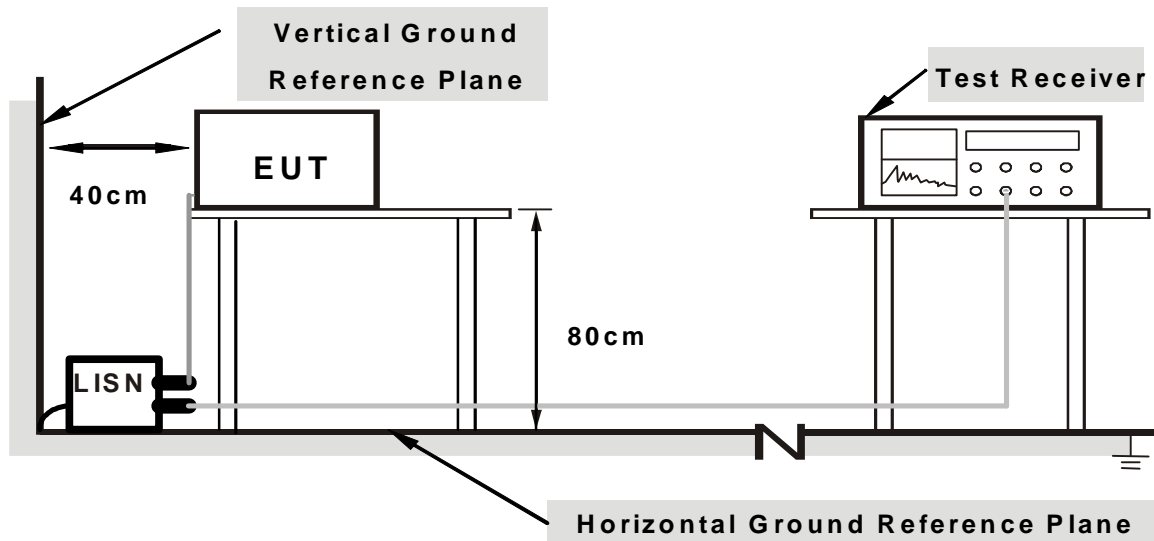
4.1.3 TEST PROCEDURES

- 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

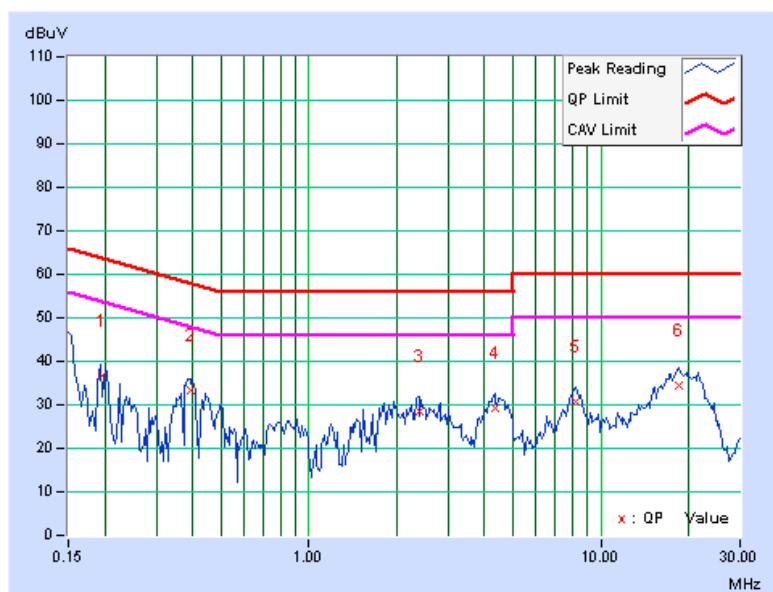
1. Turned on the power of all equipment.
2. The EUT ran test program “QA RT3x7x V1.5.2.0” to enable support unit1 (Speaker) via an audio cable.

4.1.7 TEST RESULTS (MODE A)

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	0.196	0.06	36.59	23.35	36.65	23.41	63.79
2	0.392	0.08	33.24	23.98	33.32	24.06	58.02	48.02	-24.70	-23.96
3	2.379	0.22	28.14	21.25	28.36	21.47	56.00	46.00	-27.64	-24.53
4	4.332	0.32	28.90	23.61	29.22	23.93	56.00	46.00	-26.78	-22.07
5	8.258	0.50	30.12	23.78	30.62	24.28	60.00	50.00	-29.38	-25.72
6	18.551	0.95	33.54	28.03	34.49	28.98	60.00	50.00	-25.51	-21.02

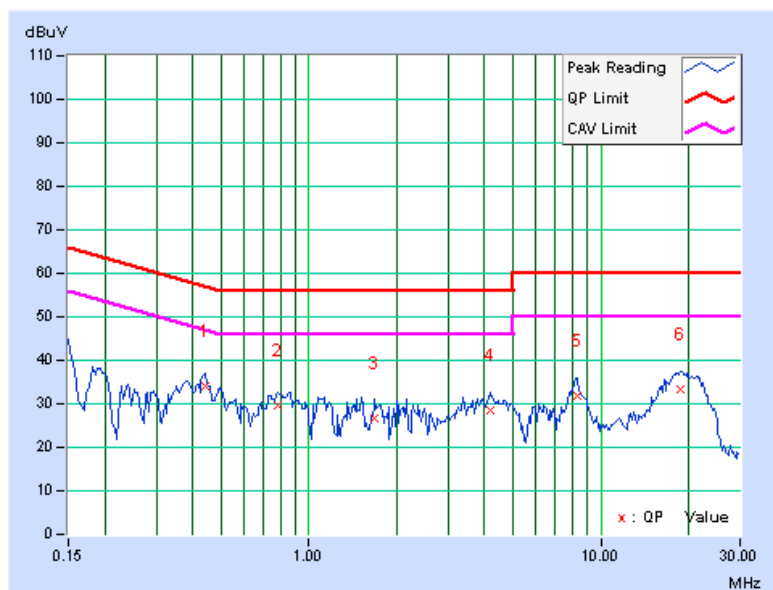
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Neutral (N)	6dB BANDWIDTH	9 kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.439	0.09	33.92	23.54	34.01	23.63	57.08	47.08	-23.07	-23.45
2	0.783	0.10	29.35	20.05	29.45	20.15	56.00	46.00	-26.55	-25.85
3	1.684	0.17	26.56	18.45	26.73	18.62	56.00	46.00	-29.27	-27.38
4	4.160	0.32	28.20	23.12	28.52	23.44	56.00	46.00	-27.48	-22.56
5	8.285	0.49	31.18	24.74	31.67	25.23	60.00	50.00	-28.33	-24.77
6	18.703	0.96	32.41	27.02	33.37	27.98	60.00	50.00	-26.63	-22.02

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

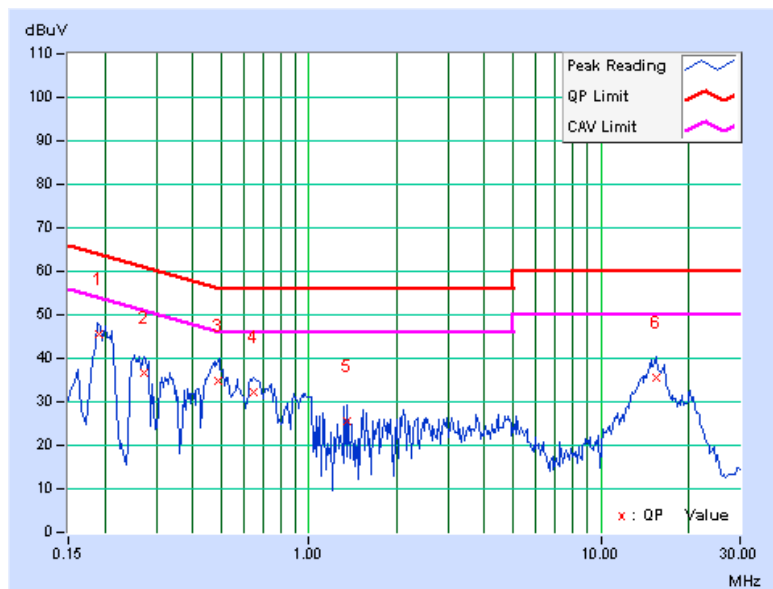


4.1.8 TEST RESULTS (MODE B)

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	0.192	0.06	45.34	33.57	45.40	33.63	63.95	53.95	-18.55
2	0.271	0.07	36.43	21.25	36.50	21.32	61.08	51.08	-24.59	-29.77
3	0.488	0.08	34.86	18.49	34.94	18.57	56.21	46.21	-21.26	-27.63
4	0.646	0.09	32.25	16.04	32.34	16.13	56.00	46.00	-23.66	-29.87
5	1.359	0.14	25.53	12.35	25.67	12.49	56.00	46.00	-30.33	-33.51
6	15.570	0.84	34.83	24.36	35.67	25.20	60.00	50.00	-24.33	-24.80

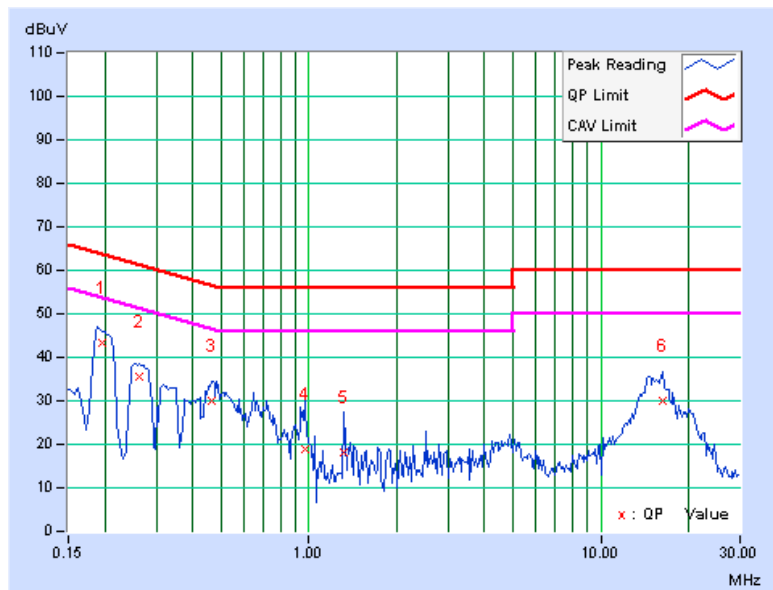
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Neutral (N)	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	0.195	0.08	43.21	29.38	43.29	29.46	63.81
2	0.263	0.08	35.40	20.32	35.48	20.40	61.33	51.33	-25.84	-30.92
3	0.466	0.09	29.97	14.57	30.06	14.66	56.58	46.58	-26.52	-31.92
4	0.970	0.11	18.67	5.38	18.78	5.49	56.00	46.00	-37.22	-40.51
5	1.320	0.14	17.90	4.79	18.04	4.93	56.00	46.00	-37.96	-41.07
6	16.227	0.86	29.15	17.34	30.01	18.20	60.00	50.00	-29.99	-31.80

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. 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.



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4.2.2 TEST INSTRUMENTS

For below 1GHz (Test date: Nov. 10, 2011)

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 08, 2010	Dec. 07, 2011
Agilent PSA Spectrum Analyzer	E4446A	MY48250113	Nov. 30 , 2010	Nov. 29 , 2011
HP Pre_Amplifier	8449B	300801923	Oct. 31, 2011	Oct. 30, 2012
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 02, 2011	Sep. 01, 2012
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	Apr. 14, 2011	Apr. 13, 2012
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 17, 2010	Dec. 16, 2011
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 17, 2011	Jan. 16, 2012
RF Switches	EMH-011	1001	Sep. 24, 2011	Sep. 23, 2012
RF CABLE (Chaintek)	Sucoflex 106	RF106-102	Jan. 27, 2011	Jan. 26, 2012
RF Cable	8DFB	STCCAB-30M-1GHz	Sep. 24, 2011	Sep. 23, 2012
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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For above 1GHz (Test date: Dec. 13, 2011)

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Apr. 29, 2011	Apr. 28, 2012
Agilent PSA Spectrum Analyzer	E4446A	MY48250113	Nov. 30 , 2011	Nov. 29 , 2012
HP Pre_Amplifier	8449B	300801923	Oct. 31, 2011	Oct. 30, 2012
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 02, 2011	Sep. 01, 2012
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	Apr. 14, 2011	Apr. 13, 2012
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 17, 2010	Dec. 16, 2011
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 17, 2011	Jan. 16, 2012
R&S Loop Antenna	HFH2-Z2	100070	Feb. 03, 2011	Feb. 02, 2012
RF Switches	EMH-011	1001	Sep. 24, 2011	Sep. 23, 2012
RF CABLE (Chaintek)	Sucoflex 106	RF106-102	Jan. 27, 2011	Jan. 26, 2012
RF Cable	8DFB	STCCAB-30M-1GHz	Sep. 24, 2011	Sep. 23, 2012
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.

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-meters open 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 height of antenna 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.

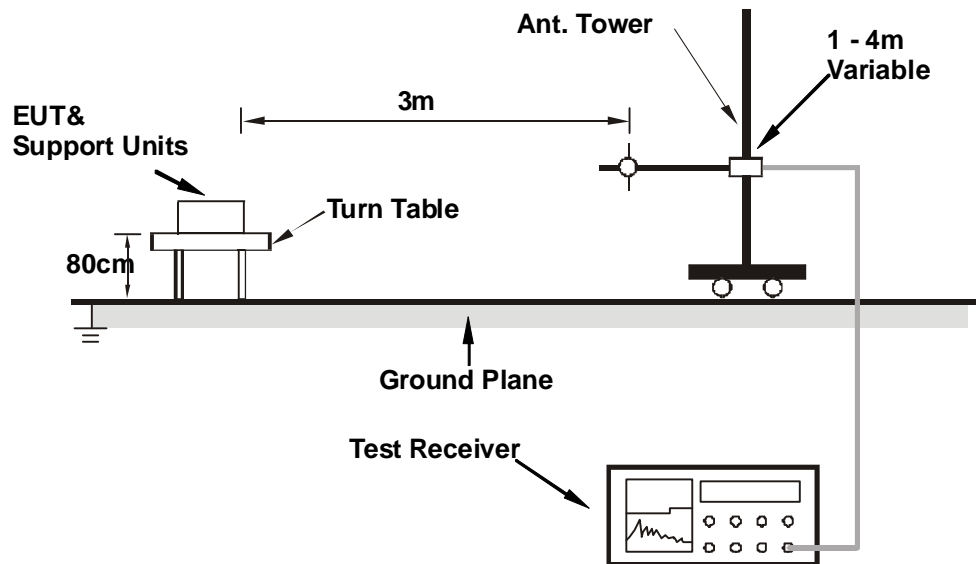
NOTE:

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 of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz 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 4.1.6

4.2.7 TEST RESULTS (MODE A)

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 78%RH	TESTED BY	Frank 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	126.00	34.4 QP	43.5	-9.1	1.47 H	348	21.31	13.06
2	168.00	25.4 QP	43.5	-18.1	1.35 H	168	10.68	14.68
3	250.00	32.6 QP	46.0	-13.4	1.00 H	258	18.30	14.31
4	400.02	39.5 QP	46.0	-6.5	1.86 H	114	20.27	19.27
5	800.04	33.8 QP	46.0	-12.2	1.44 H	205	5.27	28.52
6	960.00	33.2 QP	46.0	-12.8	1.44 H	71	3.01	30.17

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	79.20	26.1 QP	40.0	-13.9	1.00 V	64	15.74	10.33
2	126.00	35.8 QP	43.5	-7.7	1.00 V	196	22.77	13.06
3	250.01	39.8 QP	46.0	-6.2	1.00 V	259	25.51	14.31
4	350.02	37.3 QP	46.0	-8.7	1.02 V	35	19.58	17.75
5	400.02	41.7 QP	46.0	-4.3	1.12 V	327	22.43	19.27
6	960.00	35.3 QP	46.0	-10.7	1.00 V	233	5.14	30.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	55.4 PK	74.0	-18.6	1.47 H	151	24.08	31.32
2	2390.00	43.3 AV	54.0	-10.7	1.47 H	151	11.98	31.32
3	*2412.00	103.2 PK			1.49 H	151	71.81	31.39
4	*2412.00	101.0 AV			1.49 H	151	69.61	31.39
5	4824.00	52.8 PK	74.0	-21.2	1.35 H	167	16.63	36.17
6	4824.00	50.7 AV	54.0	-3.3	1.35 H	167	14.53	36.17

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	56.0 PK	74.0	-18.0	1.00 V	99	24.68	31.32
2	2390.00	43.8 AV	54.0	-10.2	1.00 V	99	12.48	31.32
3	*2412.00	104.6 PK			1.00 V	100	73.21	31.39
4	*2412.00	102.5 AV			1.00 V	100	71.11	31.39
5	4824.00	55.0 PK	74.0	-19.0	1.17 V	156	18.83	36.17
6	4824.00	52.8 AV	54.0	-1.2	1.17 V	156	16.63	36.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	104.5 PK			1.71 H	298	73.01	31.49
2	*2437.00	102.3 AV			1.71 H	298	70.81	31.49
3	4874.00	52.6 PK	74.0	-21.4	1.35 H	168	16.29	36.31
4	4874.00	50.6 AV	54.0	-3.4	1.35 H	168	14.29	36.31
5	7311.00	49.2 PK	74.0	-24.8	1.15 H	90	6.97	42.23
6	7311.00	38.2 AV	54.0	-15.8	1.15 H	90	-4.03	42.23
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	106.8 PK			1.00 V	90	75.31	31.49
2	*2437.00	104.5 AV			1.00 V	90	73.01	31.49
3	4874.00	54.8 PK	74.0	-19.2	1.59 V	130	18.49	36.31
4	4874.00	53.0 AV	54.0	-1.0	1.59 V	130	16.69	36.31
5	7311.00	50.0 PK	74.0	-24.0	1.00 V	20	7.77	42.23
6	7311.00	37.9 AV	54.0	-16.1	1.00 V	20	-4.33	42.23

- 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.



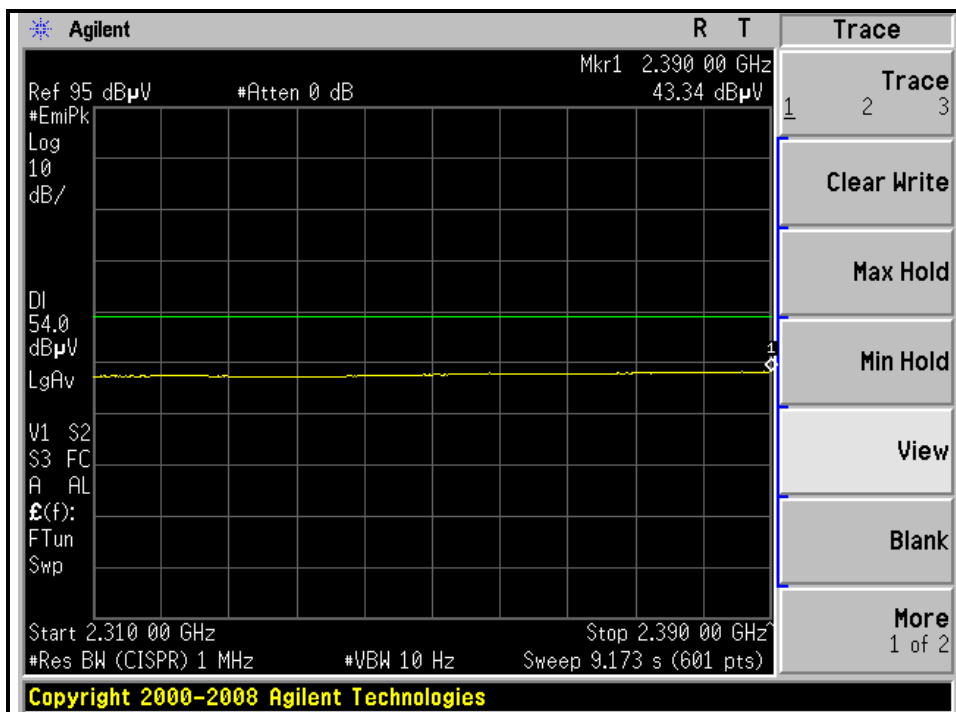
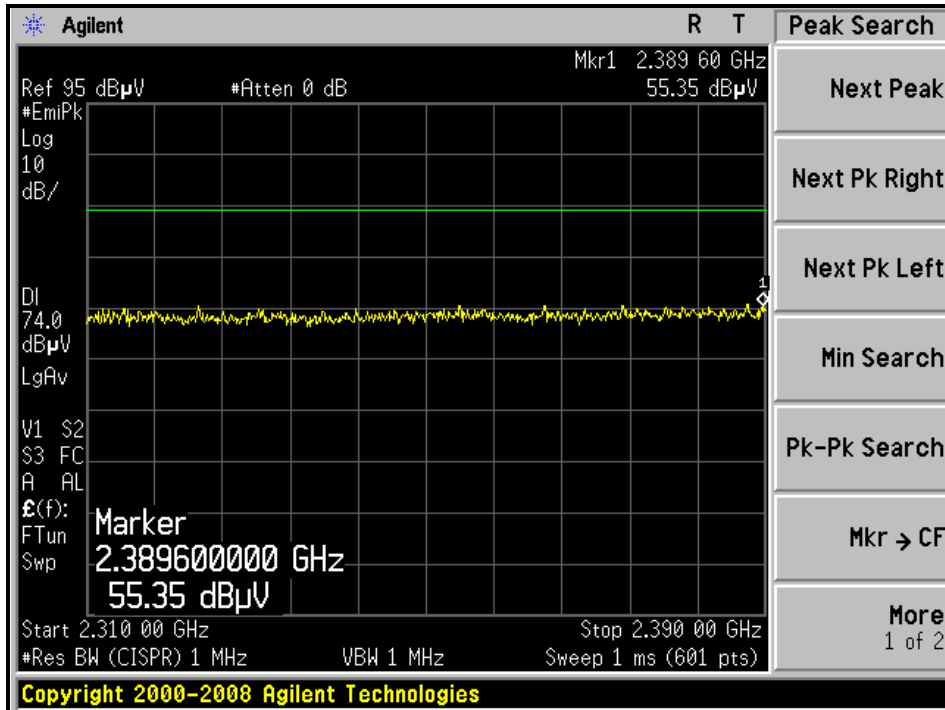
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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

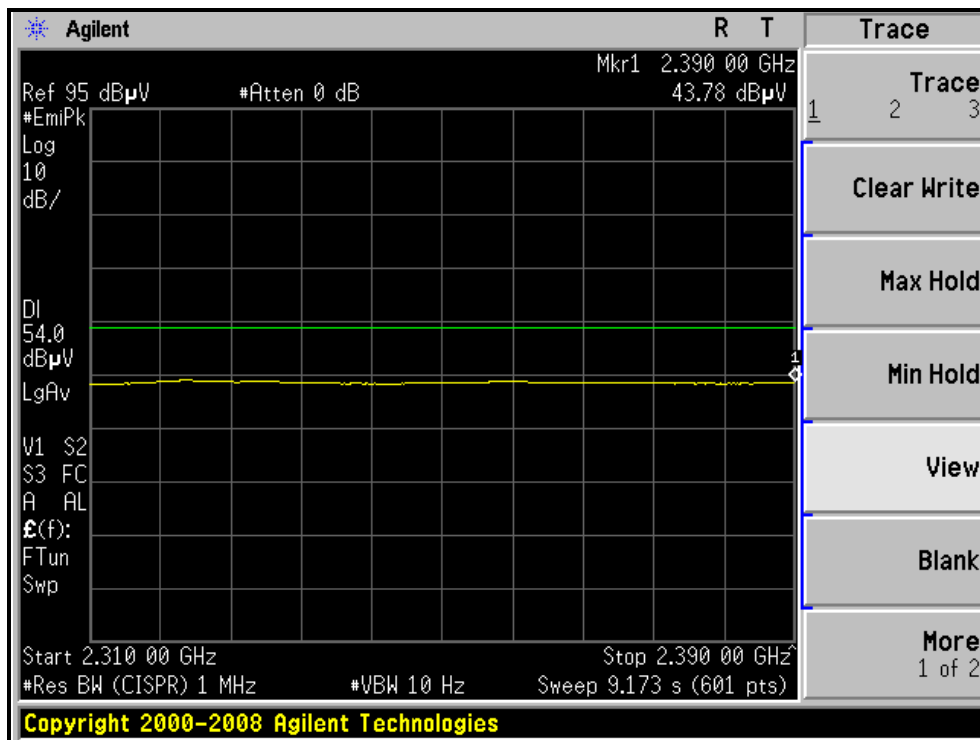
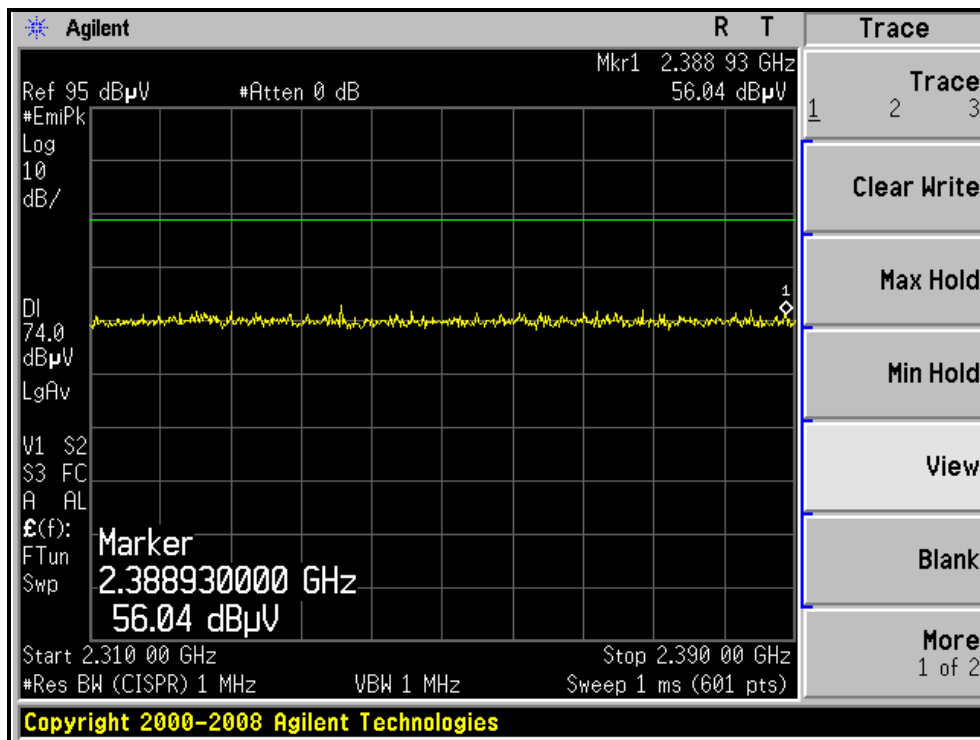
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.9 PK			1.72 H	296	72.32	31.58
2	*2462.00	101.8 AV			1.72 H	296	70.22	31.58
3	2483.50	56.8 PK	74.0	-17.2	1.72 H	295	25.14	31.66
4	2483.50	43.8 AV	54.0	-10.2	1.72 H	295	12.14	31.66
5	4924.00	52.7 PK	74.0	-21.3	1.36 H	166	16.28	36.42
6	4924.00	50.6 AV	54.0	-3.4	1.36 H	166	14.18	36.42
7	7386.00	48.9 PK	74.0	-25.1	1.15 H	89	6.38	42.52
8	7386.00	37.2 AV	54.0	-16.8	1.15 H	89	-5.32	42.52
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	108.4 PK			1.00 V	89	76.82	31.58
2	*2462.00	106.2 AV			1.00 V	89	74.62	31.58
3	2483.50	57.0 PK	74.0	-17.0	1.00 V	90	25.34	31.66
4	2483.50	44.4 AV	54.0	-9.6	1.00 V	90	12.74	31.66
5	4924.00	54.3 PK	74.0	-19.7	1.16 V	162	17.88	36.42
6	4924.00	52.5 AV	54.0	-1.5	1.16 V	162	16.08	36.42
7	7386.00	49.2 PK	74.0	-24.8	1.00 V	21	6.68	42.52
8	7386.00	38.4 AV	54.0	-15.6	1.00 V	21	-4.12	42.52

- 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.

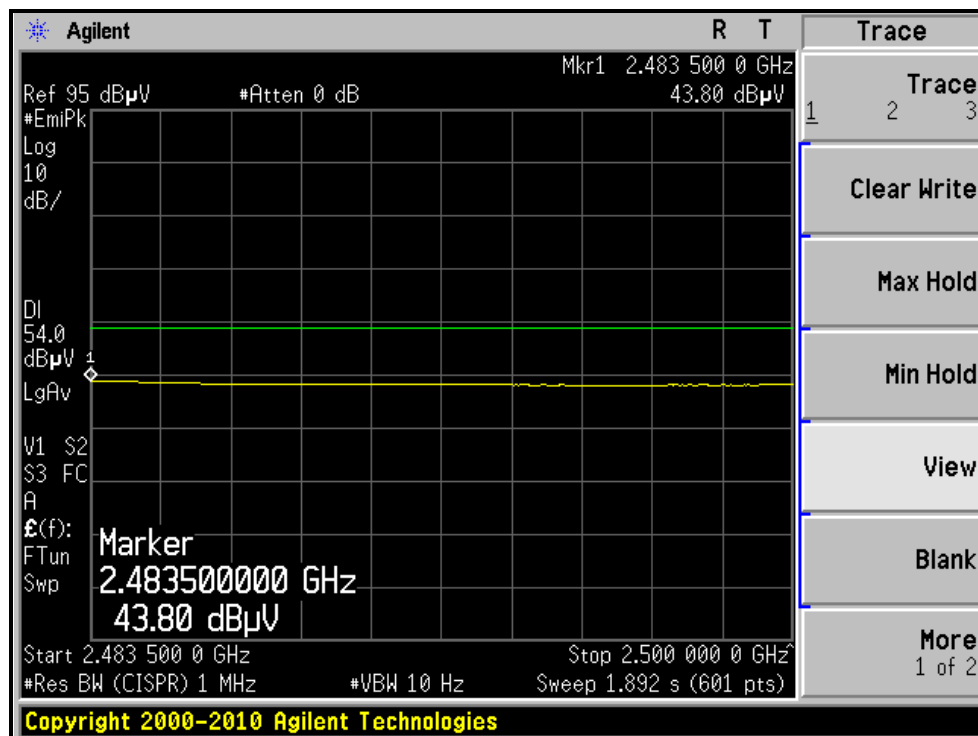
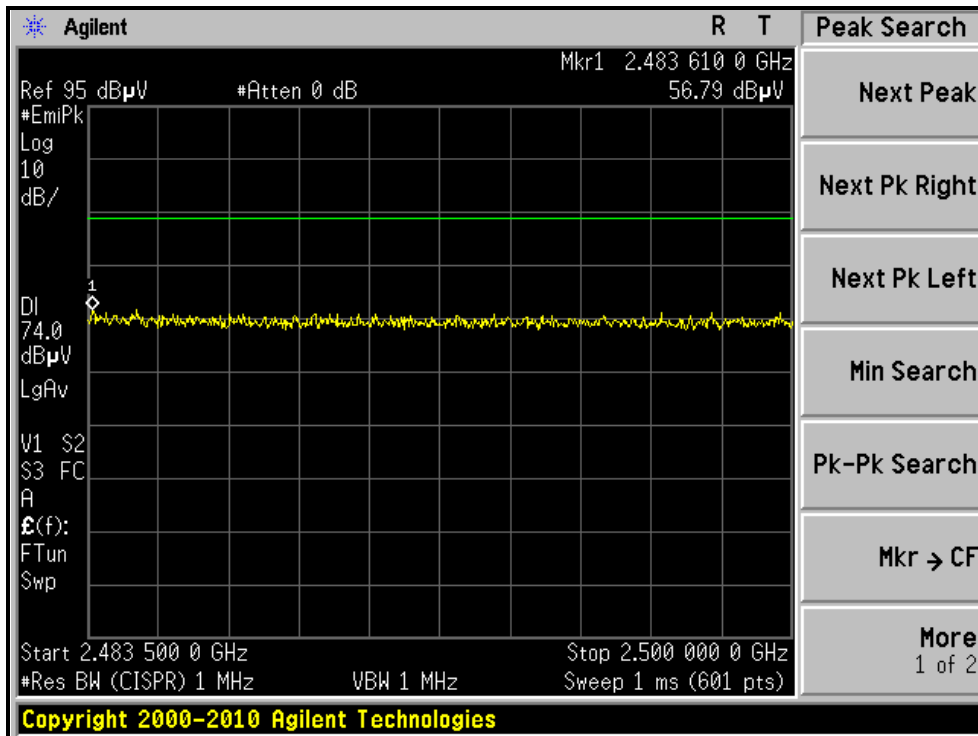
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)



RESTRICTED BANDEDGE (802.11b MODE, CH1, VERTICAL)



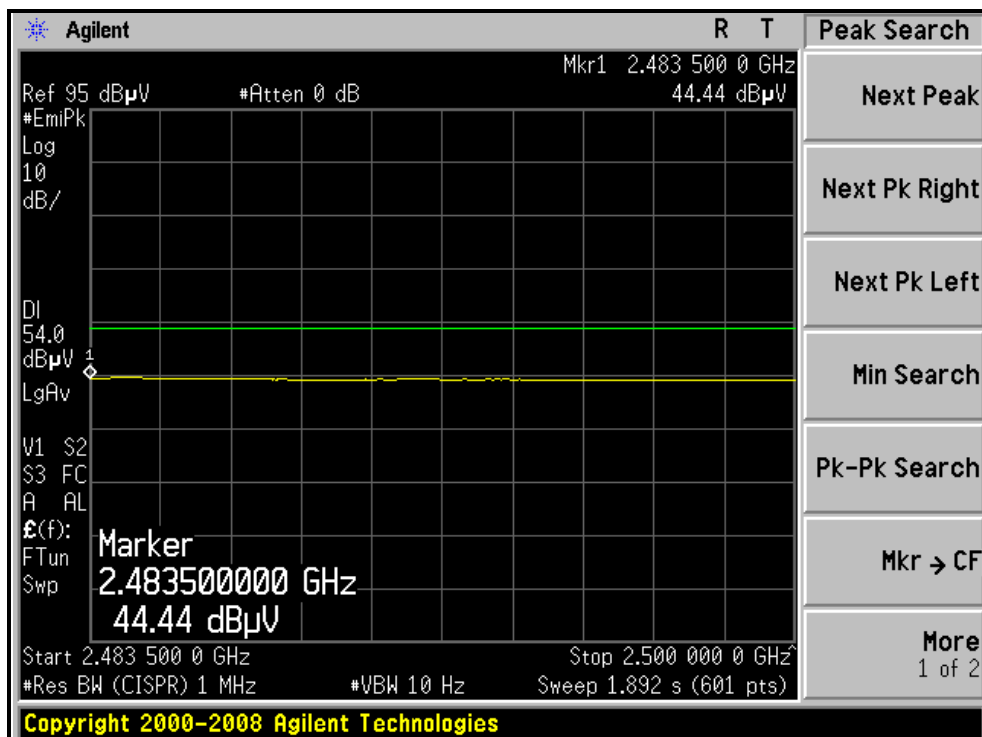
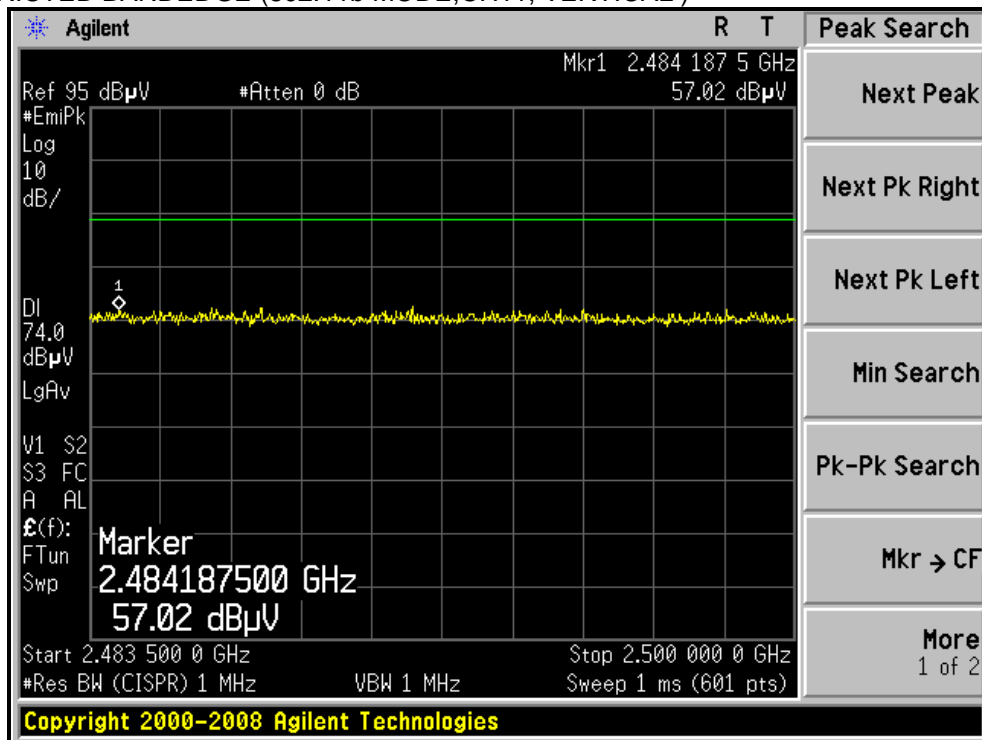
RESTRICTED BANDEDGE (802.11b MODE, CH11, HORIZONTAL)





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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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	2360.00	58.8 PK	74.0	-15.2	1.68 H	288	27.58	31.22
2	2360.00	46.0 AV	54.0	-8.0	1.68 H	288	14.78	31.22
3	*2412.00	106.5 PK			1.67 H	287	75.11	31.39
4	*2412.00	96.9 AV			1.67 H	287	65.51	31.39
5	4824.00	46.8 PK	74.0	-27.2	1.38 H	169	10.63	36.17
6	4824.00	34.8 AV	54.0	-19.2	1.38 H	169	-1.37	36.17

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	2359.00	59.7 PK	74.0	-14.3	1.00 V	202	28.48	31.22
2	2359.00	47.9 AV	54.0	-6.1	1.00 V	202	16.68	31.22
3	*2412.00	106.7 PK			1.03 V	270	75.31	31.39
4	*2412.00	96.9 AV			1.03 V	270	65.51	31.39
5	4824.00	47.6 PK	74.0	-26.4	1.16 V	162	11.43	36.17
6	4824.00	35.5 AV	54.0	-18.5	1.16 V	162	-0.67	36.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	56.4 PK	74.0	-17.6	1.70 H	299	25.08	31.32
2	2390.00	45.4 AV	54.0	-8.6	1.70 H	299	14.08	31.32
3	*2437.00	106.9 PK			1.70 H	298	75.41	31.49
4	*2437.00	97.4 AV			1.70 H	298	65.91	31.49
5	2483.50	59.3 PK	74.0	-14.7	1.70 H	300	27.64	31.66
6	2483.50	48.4 AV	54.0	-5.6	1.70 H	300	16.74	31.66
7	4874.00	46.9 PK	74.0	-27.1	1.39 H	170	10.59	36.31
8	4874.00	35.4 AV	54.0	-18.6	1.39 H	170	-0.91	36.31
9	7311.00	46.5 PK	74.0	-27.5	1.16 H	90	4.27	42.23
10	7311.00	36.8 AV	54.0	-17.2	1.16 H	90	-5.43	42.23
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	56.6 PK	74.0	-17.4	1.00 V	203	25.28	31.32
2	2390.00	46.2 AV	54.0	-7.8	1.00 V	203	14.88	31.32
3	*2437.00	109.3 PK			1.00 V	269	77.81	31.49
4	*2437.00	99.5 AV			1.00 V	269	68.01	31.49
5	2483.50	60.2 PK	74.0	-13.8	1.00 V	270	28.54	31.66
6	2483.50	49.6 AV	54.0	-4.4	1.00 V	270	17.94	31.66
7	4874.00	48.0 PK	74.0	-26.0	1.16 V	168	11.69	36.31
8	4874.00	35.8 AV	54.0	-18.2	1.16 V	168	-0.51	36.31
9	7311.00	48.3 PK	74.0	-25.7	1.00 V	20	6.07	42.23
10	7311.00	37.8 AV	54.0	-16.2	1.00 V	20	-4.43	42.23

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

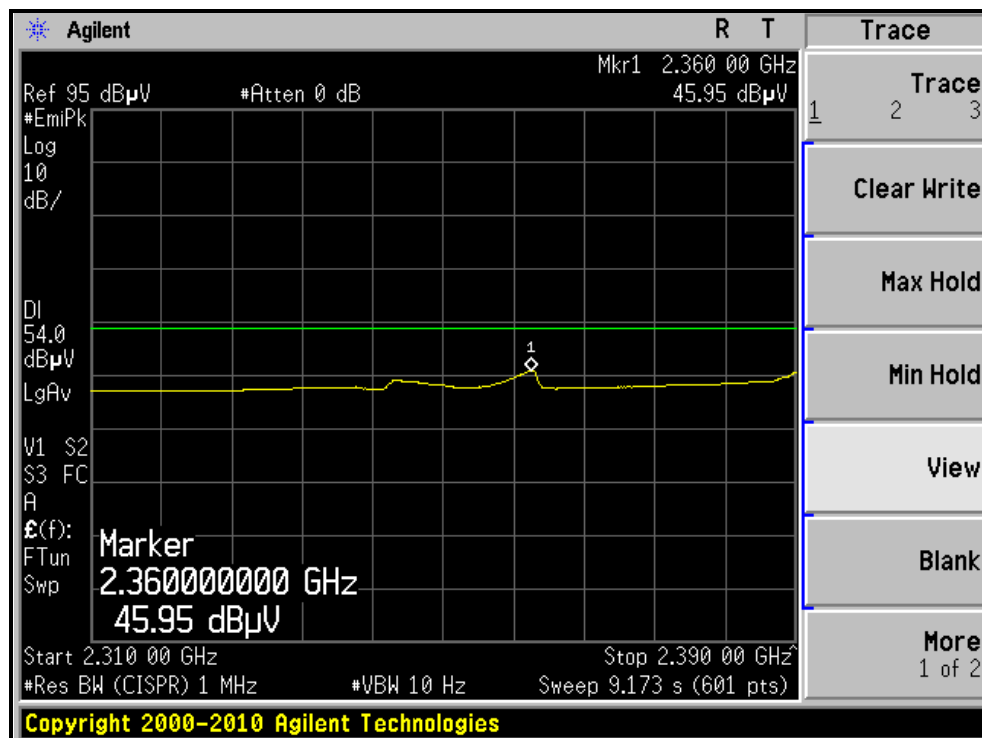
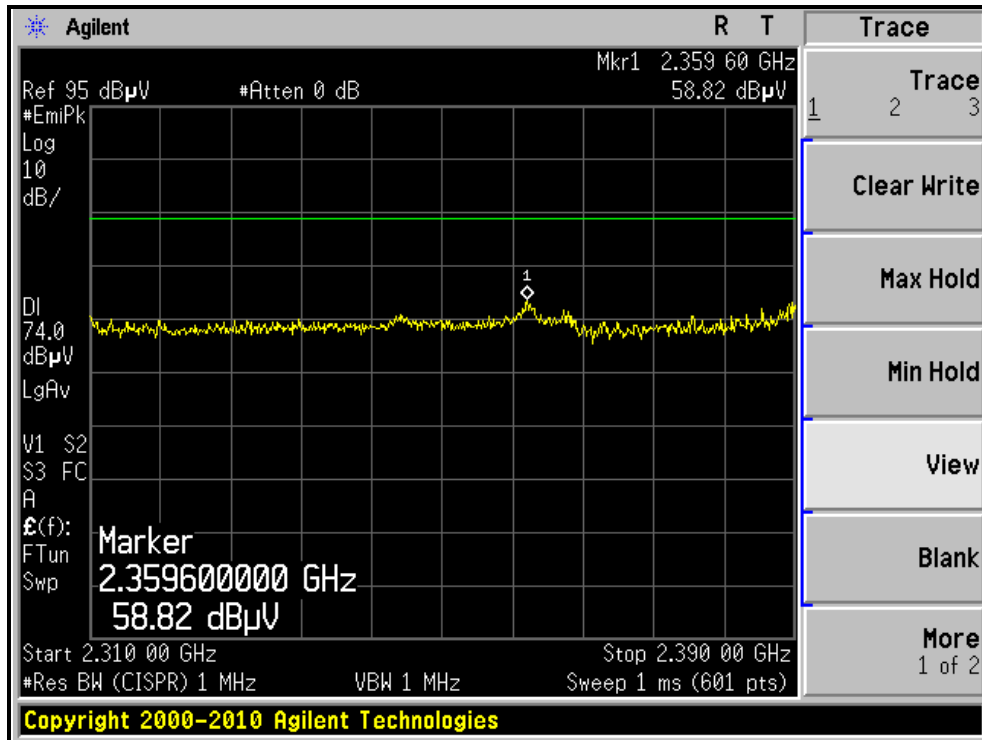
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.0 PK			1.71 H	294	75.42	31.58
2	*2462.00	96.4 AV			1.71 H	294	64.82	31.58
3	2483.50	65.2 PK	74.0	-8.8	1.71 H	295	33.54	31.66
4	2483.50	48.7 AV	54.0	-5.3	1.71 H	295	17.04	31.66
5	4924.00	47.0 PK	74.0	-27.0	1.17 H	84	10.58	36.42
6	4924.00	35.7 AV	54.0	-18.3	1.17 H	84	-0.72	36.42
7	7386.00	47.6 PK	74.0	-26.4	1.17 H	84	5.08	42.52
8	7386.00	36.9 AV	54.0	-17.1	1.17 H	84	-5.62	42.52
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	107.5 PK			1.00 V	269	75.92	31.58
2	*2462.00	97.6 AV			1.00 V	269	66.02	31.58
3	2483.50	64.7 PK	74.0	-9.3	1.00 V	266	33.04	31.66
4	2483.50	47.3 AV	54.0	-6.7	1.00 V	266	15.64	31.66
5	4924.00	49.6 PK	74.0	-24.4	1.15 V	170	13.18	36.42
6	4924.00	35.9 AV	54.0	-18.1	1.15 V	170	-0.52	36.42
7	7386.00	48.1 PK	74.0	-25.9	1.00 V	22	5.58	42.52
8	7386.00	38.4 AV	54.0	-15.6	1.00 V	22	-4.12	42.52

- 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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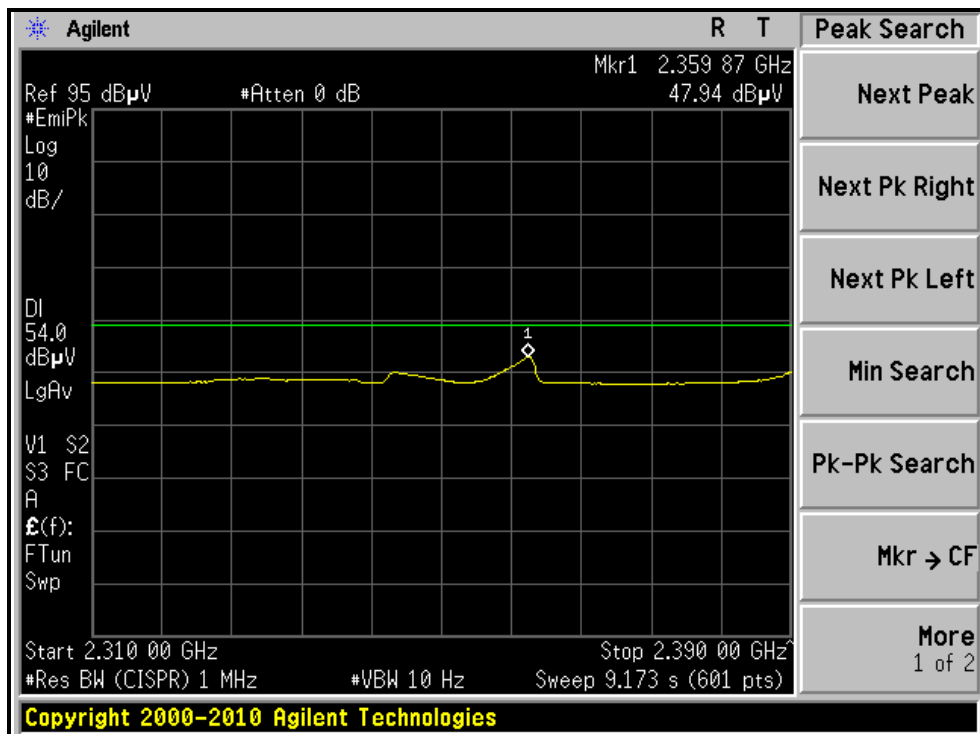
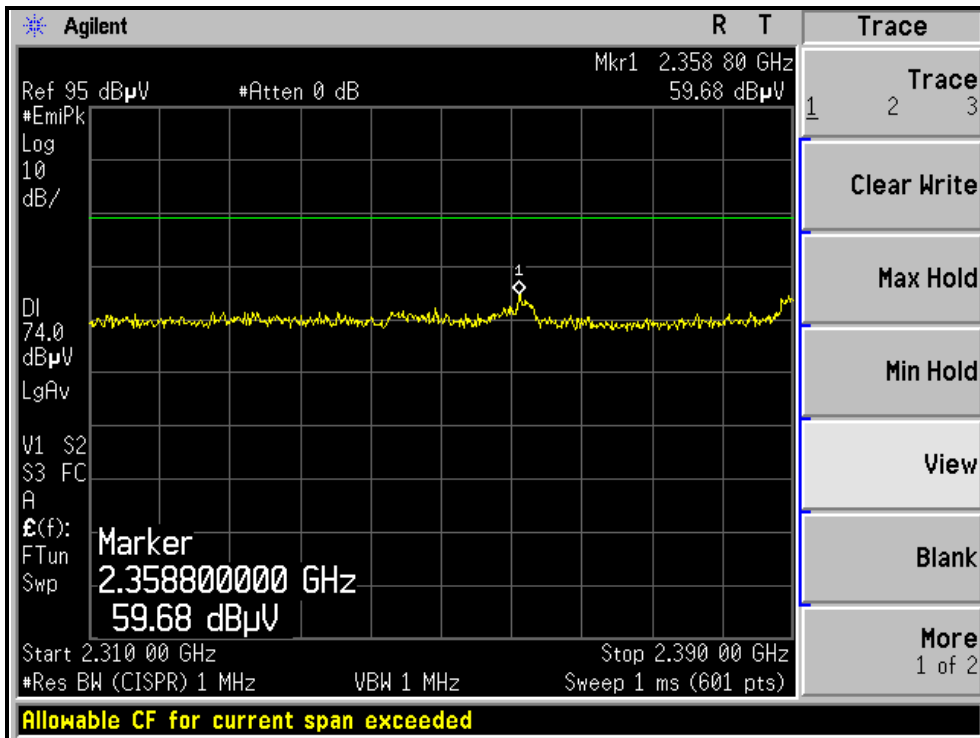
RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)





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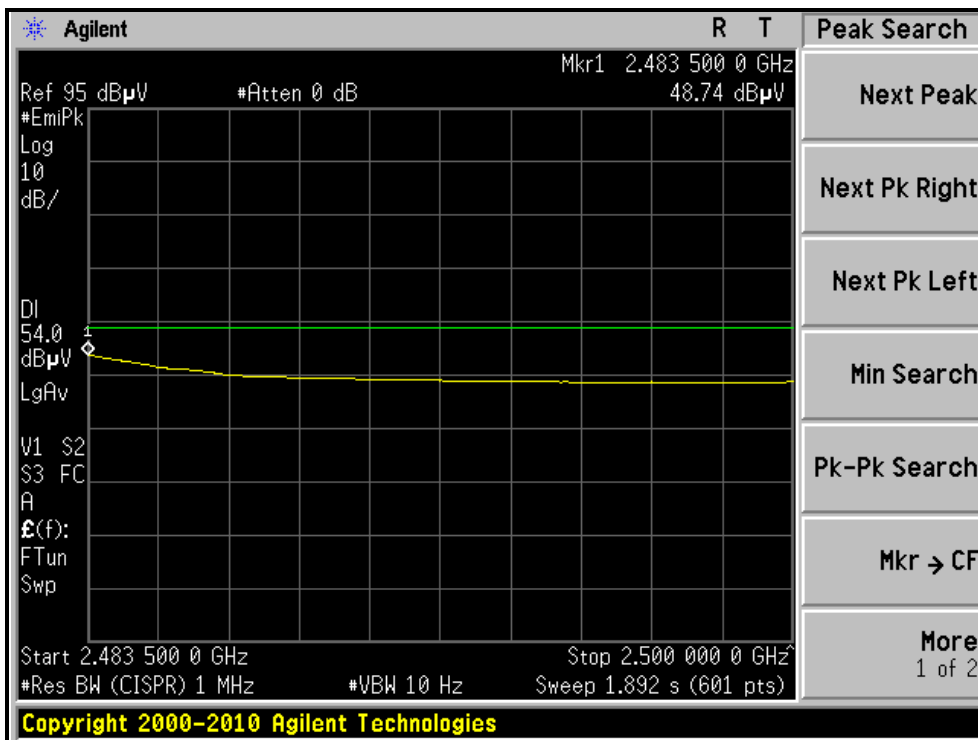
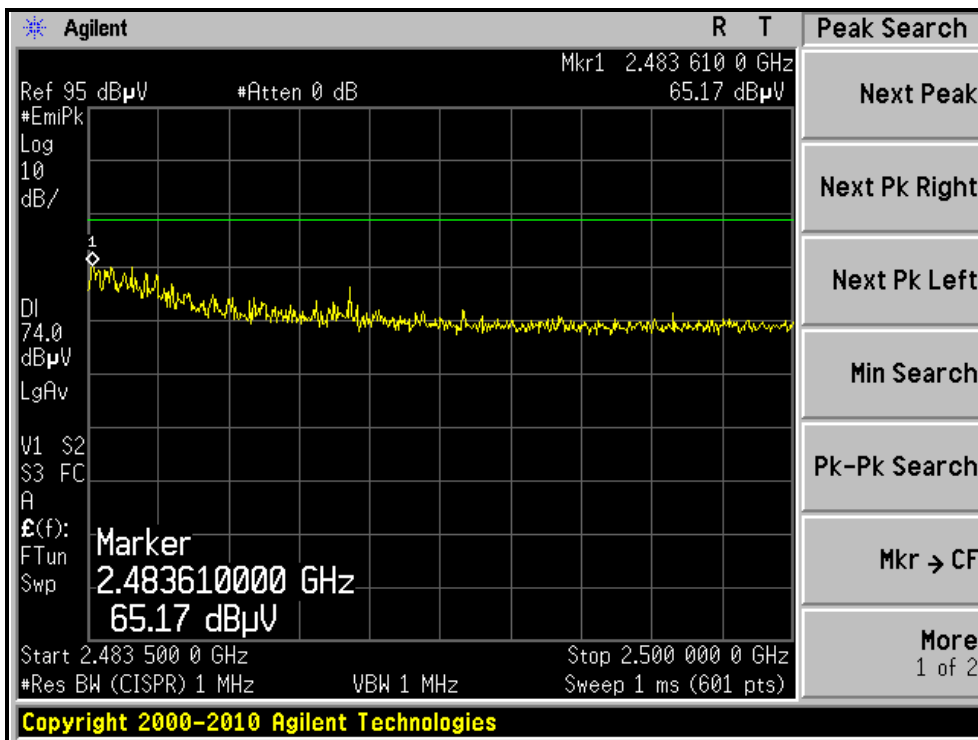
RESTRICTED BANDEDGE (802.11g MODE, CH1, VERTICAL)





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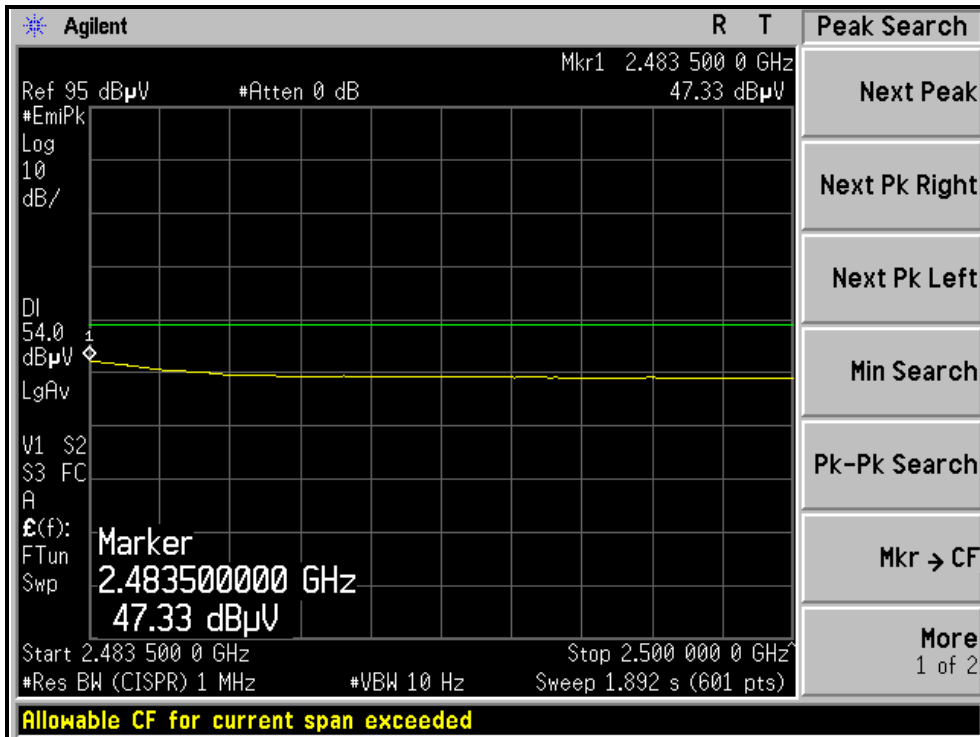
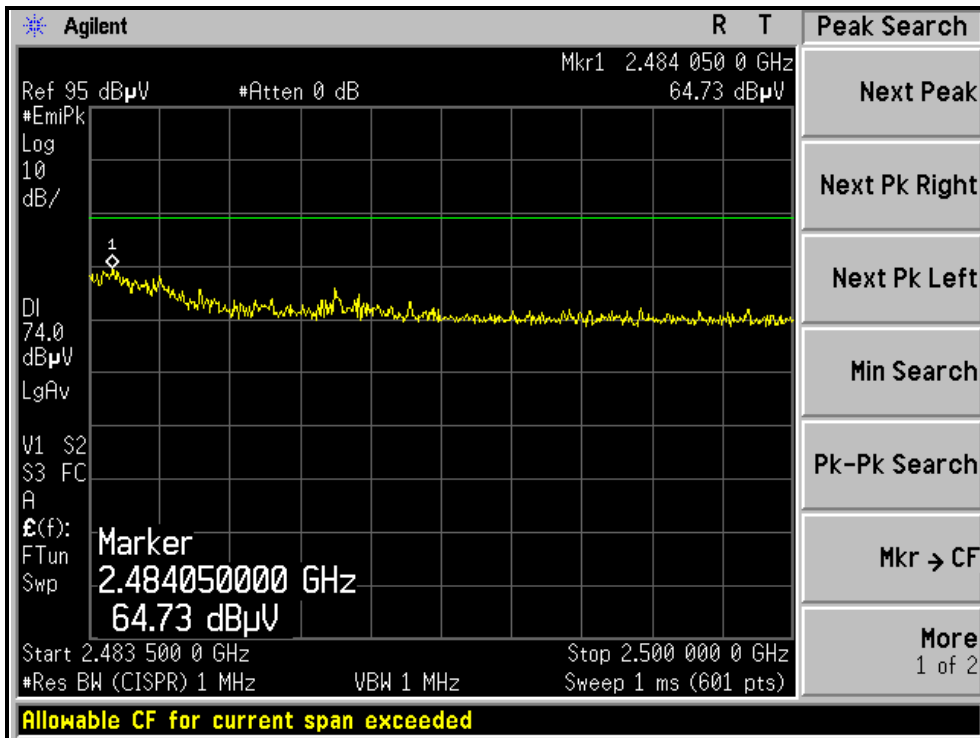
RESTRICTED BANDEDGE (802.11g MODE,CH11, HORIZONTAL)





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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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	57.5 PK	74.0	-16.5	1.72 H	287	26.18	31.32
2	2390.00	45.4 AV	54.0	-8.6	1.72 H	287	14.08	31.32
3	*2412.00	104.4 PK			1.67 H	288	73.01	31.39
4	*2412.00	95.6 AV			1.67 H	288	64.21	31.39
5	4824.00	47.7 PK	74.0	-26.3	1.34 H	168	11.53	36.17
6	4824.00	35.4 AV	54.0	-18.6	1.34 H	168	-0.77	36.17

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	2360.00	57.8 PK	74.0	-16.2	1.03 V	203	26.58	31.22
2	2360.00	47.4 AV	54.0	-6.6	1.03 V	203	16.18	31.22
3	*2412.00	105.3 PK			1.03 V	267	73.91	31.39
4	*2412.00	95.6 AV			1.03 V	267	64.21	31.39
5	4824.00	50.1 PK	74.0	-23.9	1.16 V	168	13.93	36.17
6	4824.00	35.7 AV	54.0	-18.3	1.16 V	168	-0.47	36.17

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	56.3 PK	74.0	-17.7	1.70 H	299	24.98	31.32
2	2390.00	46.1 AV	54.0	-7.9	1.70 H	299	14.78	31.32
3	*2437.00	107.7 PK			1.70 H	298	76.21	31.49
4	*2437.00	97.8 AV			1.70 H	298	66.31	31.49
5	2483.50	59.7 PK	74.0	-14.3	1.70 H	300	28.04	31.66
6	2483.50	49.3 AV	54.0	-4.7	1.70 H	300	17.64	31.66
7	4874.00	47.6 PK	74.0	-26.4	1.33 H	169	11.29	36.31
8	4874.00	36.4 AV	54.0	-17.6	1.33 H	169	0.09	36.31
9	7311.00	49.4 PK	74.0	-24.6	1.15 H	92	7.17	42.23
10	7311.00	36.8 AV	54.0	-17.2	1.15 H	92	-5.43	42.23
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	57.6 PK	74.0	-16.4	1.00 V	204	26.28	31.32
2	2390.00	46.4 AV	54.0	-7.6	1.00 V	204	15.08	31.32
3	*2437.00	108.9 PK			1.00 V	269	77.41	31.49
4	*2437.00	99.1 AV			1.00 V	269	67.61	31.49
5	2483.50	60.2 PK	74.0	-13.8	1.00 V	271	28.54	31.66
6	2483.50	49.7 AV	54.0	-4.3	1.00 V	271	18.04	31.66
7	4874.00	50.4 PK	74.0	-23.6	1.18 V	172	14.09	36.31
8	4874.00	35.9 AV	54.0	-18.1	1.18 V	172	-0.41	36.31
9	7311.00	49.8 PK	74.0	-24.2	1.00 V	20	7.57	42.23
10	7311.00	37.6 AV	54.0	-16.4	1.00 V	20	-4.63	42.23

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

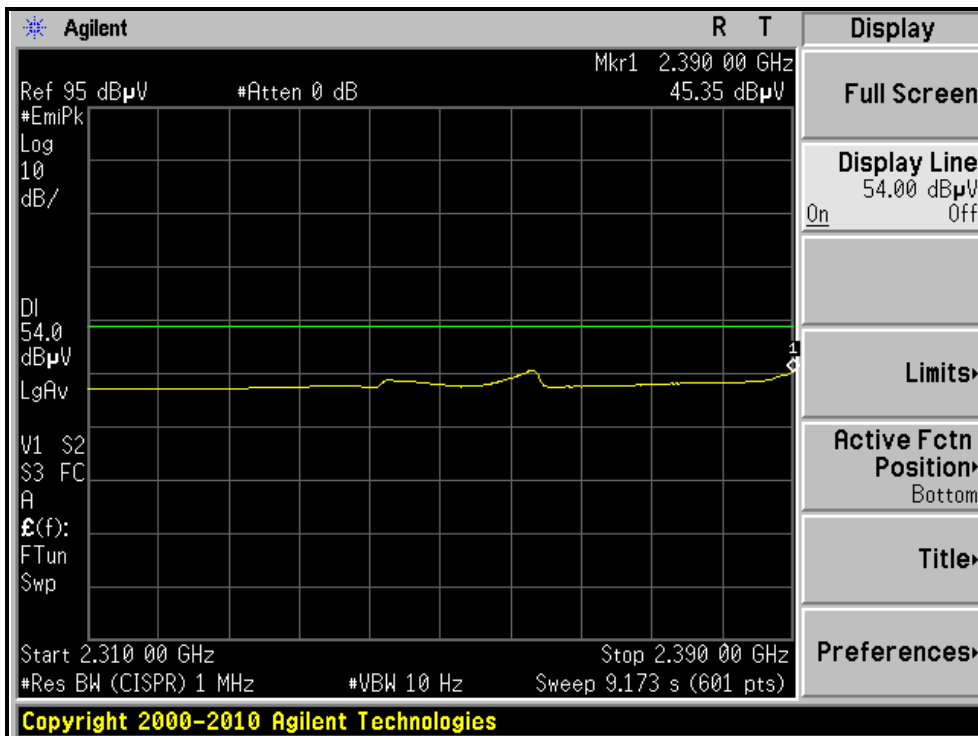
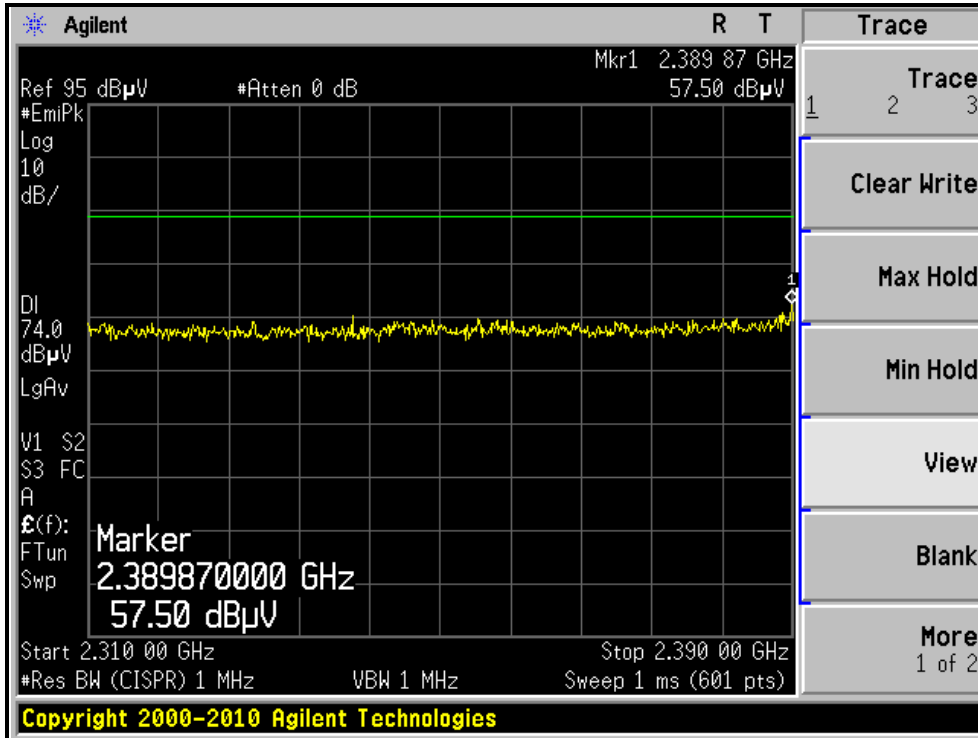
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.6 PK			1.72 H	299	74.02	31.58
2	*2462.00	95.8 AV			1.72 H	299	64.22	31.58
3	2483.50	66.5 PK	74.0	-7.5	1.72 H	298	34.84	31.66
4	2483.50	49.4 AV	54.0	-4.6	1.72 H	298	17.74	31.66
5	4924.00	47.5 PK	74.0	-26.5	1.39 H	170	11.08	36.42
6	4924.00	35.6 AV	54.0	-18.4	1.39 H	170	-0.82	36.42
7	7386.00	48.5 PK	74.0	-25.5	1.16 H	89	5.98	42.52
8	7386.00	36.7 AV	54.0	-17.3	1.16 H	89	-5.82	42.52
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	106.9 PK			1.00 V	269	75.32	31.58
2	*2462.00	95.9 AV			1.00 V	269	64.32	31.58
3	2483.50	62.7 PK	74.0	-11.3	1.00 V	270	31.04	31.66
4	2483.50	46.8 AV	54.0	-7.2	1.00 V	270	15.14	31.66
5	4924.00	50.3 PK	74.0	-23.7	1.16 V	164	13.88	36.42
6	4924.00	35.8 AV	54.0	-18.2	1.16 V	164	-0.62	36.42
7	7386.00	50.0 PK	74.0	-24.0	1.00 V	26	7.48	42.52
8	7386.00	37.7 AV	54.0	-16.3	1.00 V	26	-4.82	42.52

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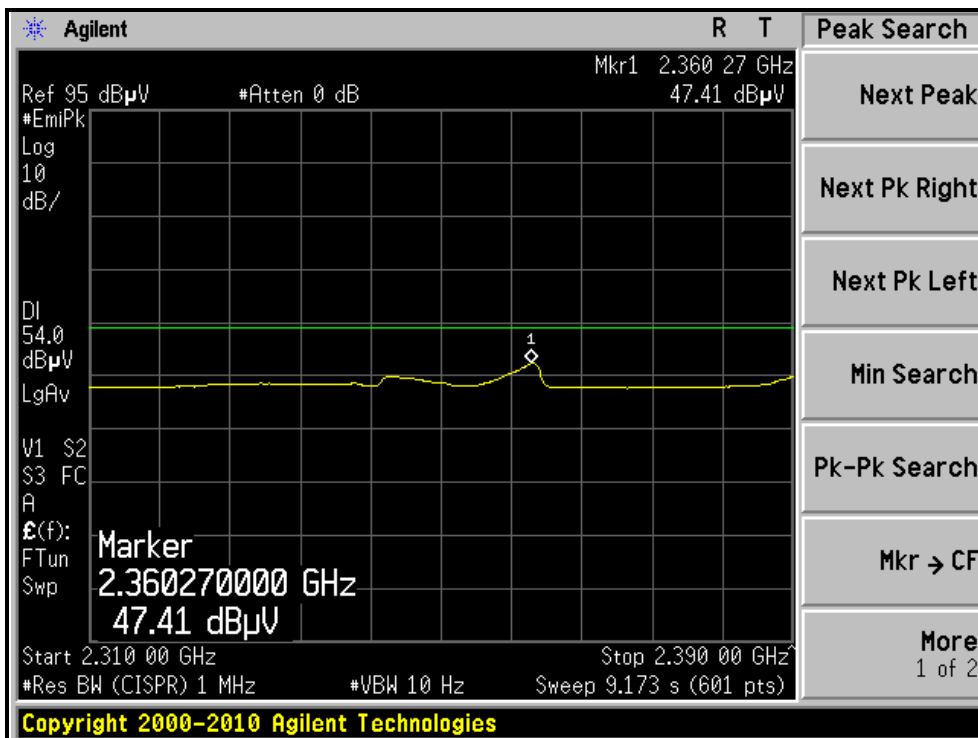
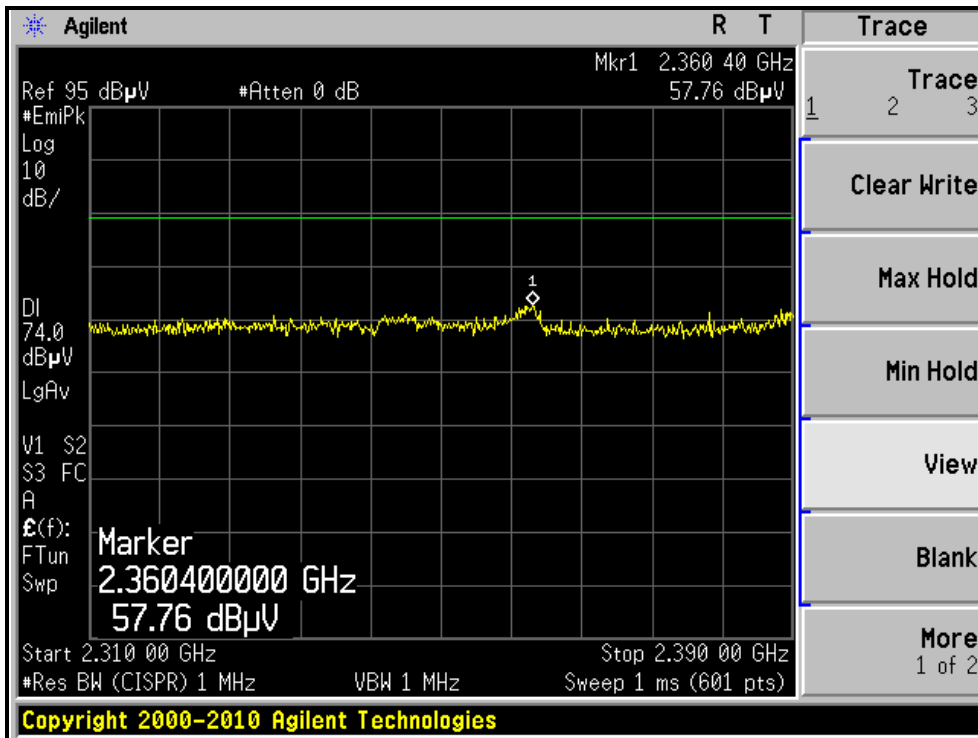
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH1, HORIZONTAL)



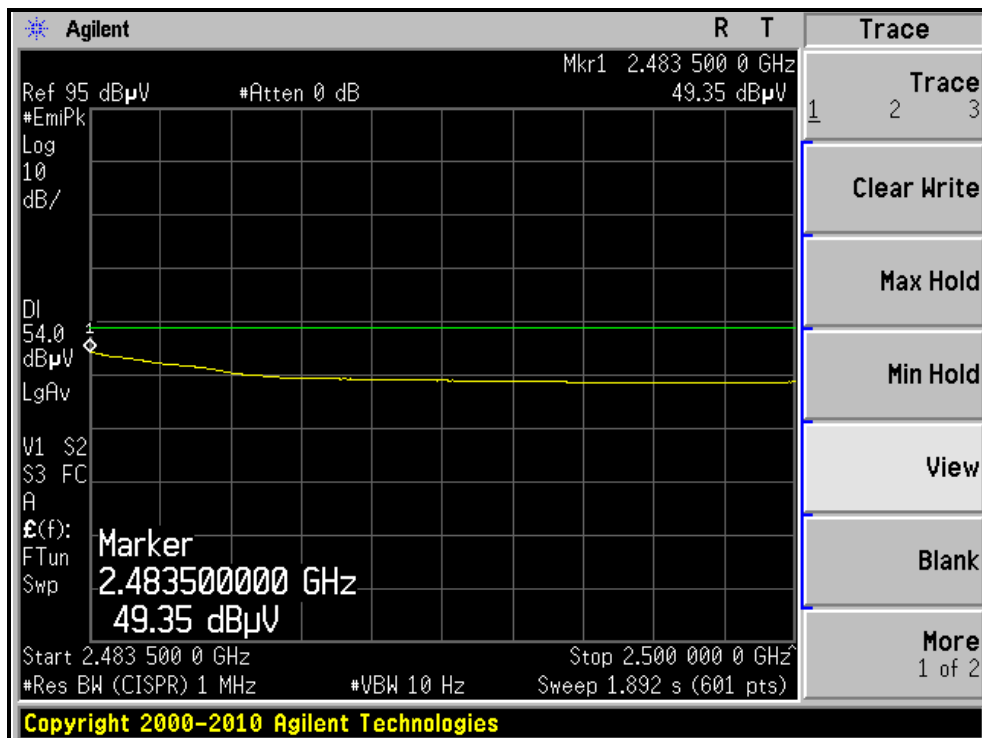
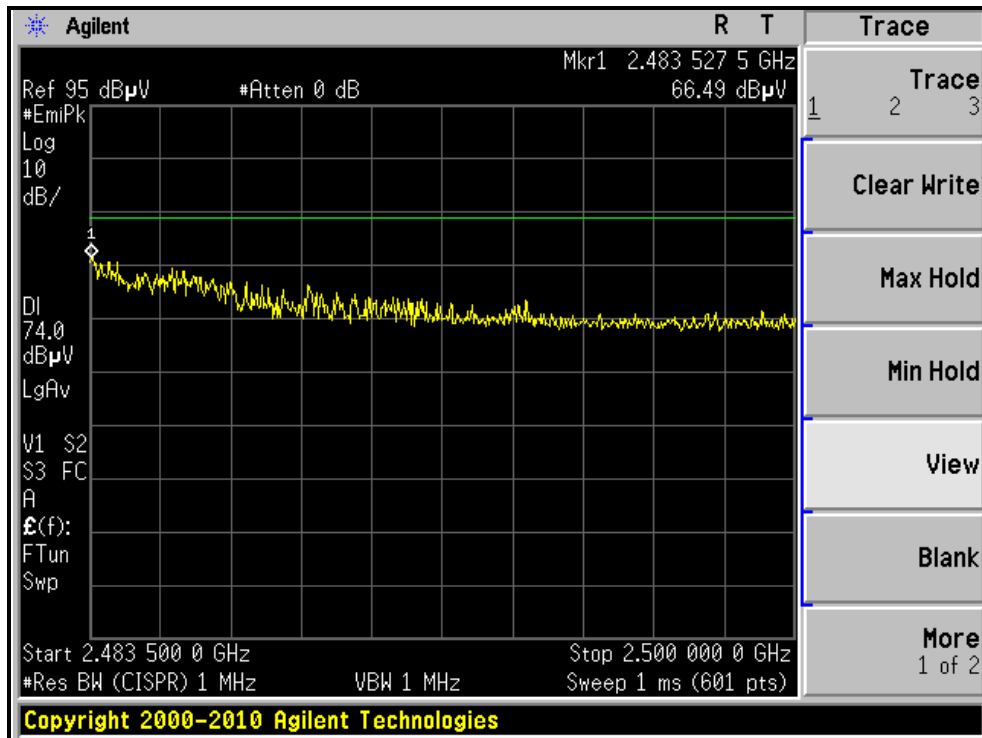


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RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH1, VERTICAL)



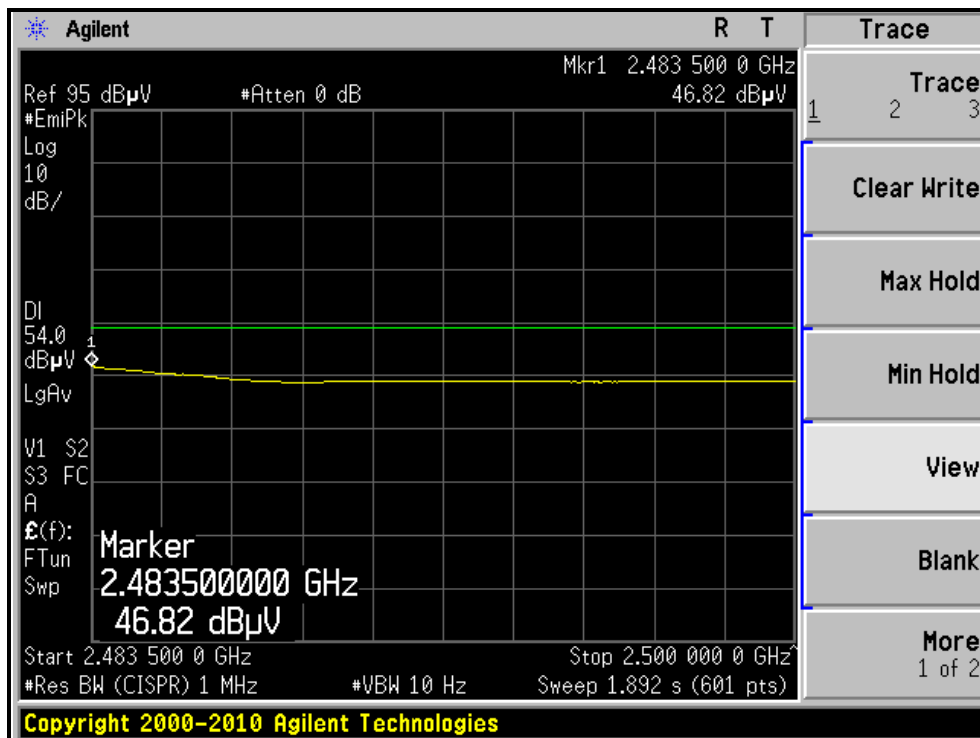
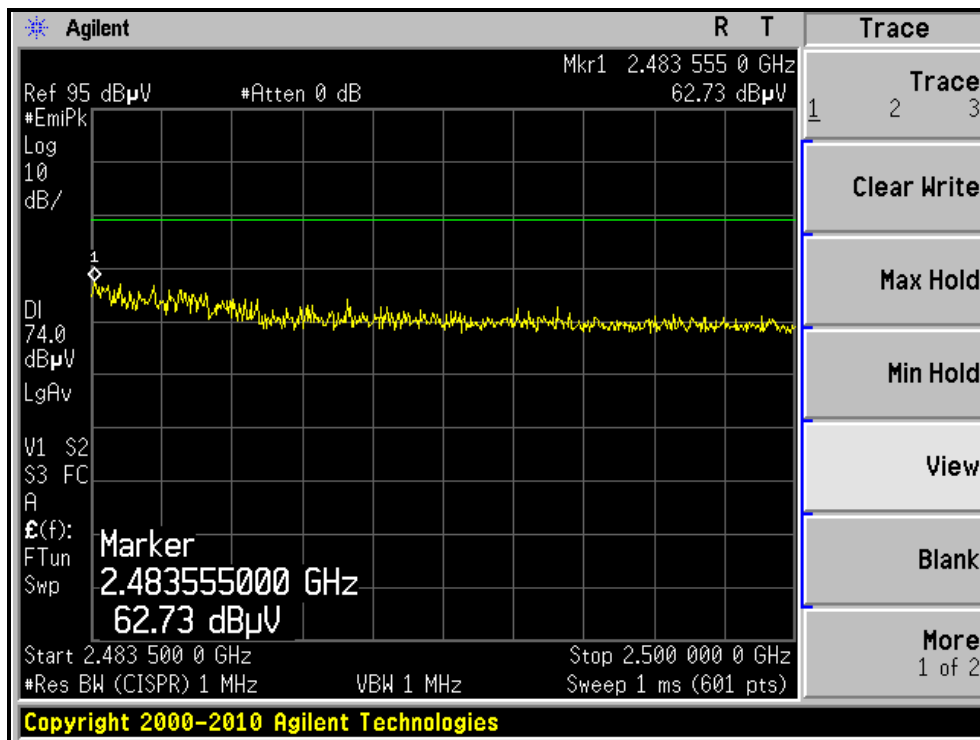
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH11, HORIZONTAL)





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





A D T

802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	62.1 PK	74.0	-11.9	1.69 H	289	30.78	31.32
2	2390.00	46.4 AV	54.0	-7.6	1.69 H	289	15.08	31.32
3	*2422.00	99.2 PK			1.68 H	292	67.77	31.43
4	*2422.00	89.8 AV			1.68 H	292	58.37	31.43
5	4844.00	44.5 PK	74.0	-29.5	1.40 H	168	8.28	36.22
6	4844.00	32.2 AV	54.0	-21.8	1.40 H	168	-4.02	36.22
7	7266.00	49.2 PK	74.0	-24.8	1.17 H	92	7.07	42.13
8	7266.00	37.3 AV	54.0	-16.7	1.17 H	92	-4.83	42.13

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	60.9 PK	74.0	-13.1	1.03 V	205	29.58	31.32
2	2390.00	45.9 AV	54.0	-8.1	1.03 V	205	14.58	31.32
3	*2422.00	99.3 PK			1.00 V	268	67.87	31.43
4	*2422.00	89.5 AV			1.00 V	268	58.07	31.43
5	4844.00	46.5 PK	74.0	-27.5	1.18 V	167	10.28	36.22
6	4844.00	32.8 AV	54.0	-21.2	1.18 V	167	-3.42	36.22
7	7266.00	50.1 PK	74.0	-23.9	1.00 V	24	7.97	42.13
8	7266.00	38.2 AV	54.0	-15.8	1.00 V	24	-3.93	42.13

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	59.0 PK	74.0	-15.0	1.70 H	297	27.68	31.32
2	2390.00	44.2 AV	54.0	-9.8	1.70 H	297	12.88	31.32
3	*2437.00	103.4 PK			1.70 H	288	71.91	31.49
4	*2437.00	94.3 AV			1.70 H	288	62.81	31.49
5	2483.50	66.0 PK	74.0	-8.0	1.70 H	299	34.34	31.66
6	2483.50	47.0 AV	54.0	-7.0	1.70 H	299	15.34	31.66
7	4874.00	45.3 PK	74.0	-28.7	1.37 H	169	8.99	36.31
8	4874.00	32.4 AV	54.0	-21.6	1.37 H	169	-3.91	36.31
9	7311.00	49.4 PK	74.0	-24.6	1.16 H	97	7.17	42.23
10	7311.00	37.0 AV	54.0	-17.0	1.16 H	97	-5.23	42.23

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	59.6 PK	74.0	-14.4	1.03 V	208	28.28	31.32
2	2390.00	44.7 AV	54.0	-9.3	1.03 V	208	13.38	31.32
3	*2437.00	104.9 PK			1.00 V	268	73.41	31.49
4	*2437.00	95.9 AV			1.00 V	268	64.41	31.49
5	2483.50	65.1 PK	74.0	-8.9	1.00 V	269	33.44	31.66
6	2483.50	46.3 AV	54.0	-7.7	1.00 V	269	14.64	31.66
7	4874.00	47.0 PK	74.0	-27.0	1.17 V	170	10.69	36.31
8	4874.00	32.9 AV	54.0	-21.1	1.17 V	170	-3.41	36.31
9	7311.00	49.8 PK	74.0	-24.2	1.00 V	21	7.57	42.23
10	7311.00	38.1 AV	54.0	-15.9	1.00 V	21	-4.13	42.23

- 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 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

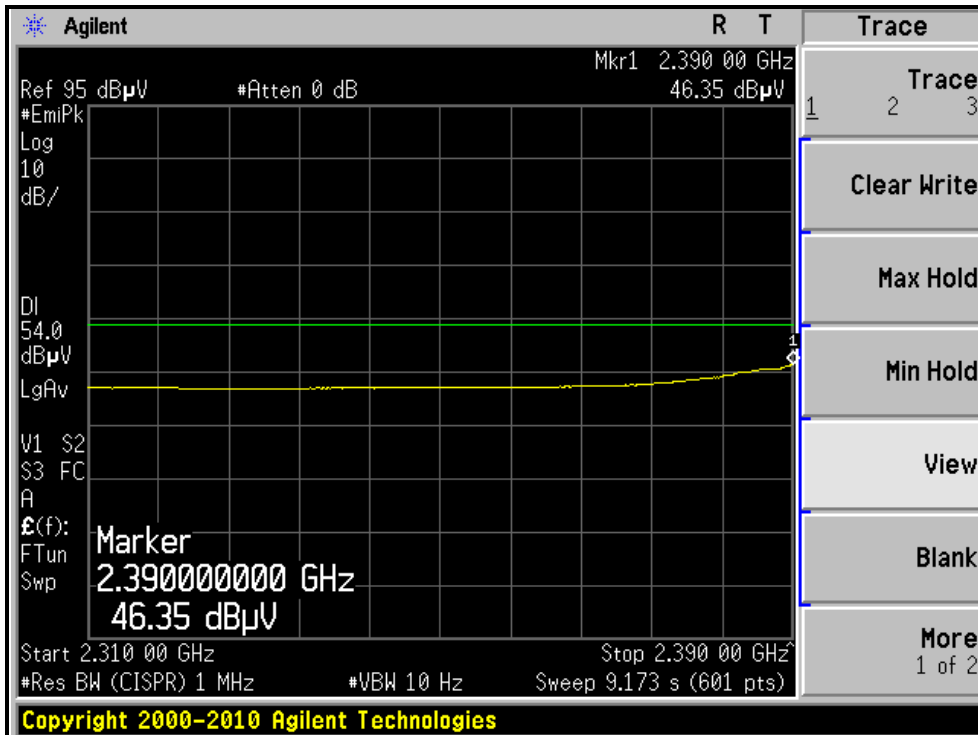
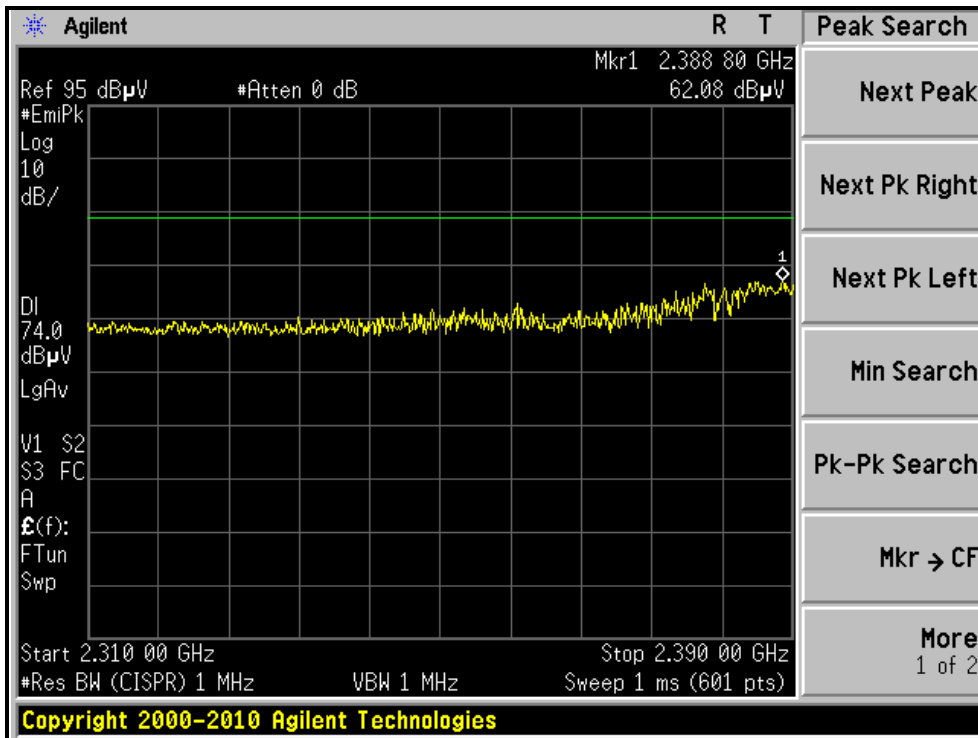
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	99.4 PK			1.72 H	297	67.86	31.54
2	*2452.00	90.1 AV			1.72 H	297	58.56	31.54
3	2483.50	65.9 PK	74.0	-8.1	1.67 H	294	34.24	31.66
4	2483.50	48.0 AV	54.0	-6.0	1.67 H	294	16.34	31.66
5	4904.00	46.1 PK	74.0	-27.9	1.36 H	171	9.71	36.39
6	4904.00	32.5 AV	54.0	-21.5	1.36 H	171	-3.89	36.39
7	7356.00	49.5 PK	74.0	-24.5	1.15 H	100	7.10	42.40
8	7356.00	37.1 AV	54.0	-16.9	1.15 H	100	-5.30	42.40
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	*2452.00	101.1 PK			1.00 V	269	69.56	31.54
2	*2452.00	91.8 AV			1.00 V	269	60.26	31.54
3	2483.50	65.8 PK	74.0	-8.2	1.00 V	269	34.14	31.66
4	2483.50	47.9 AV	54.0	-6.1	1.00 V	269	16.24	31.66
5	4904.00	46.5 PK	74.0	-27.5	1.16 V	168	10.11	36.39
6	4904.00	32.7 AV	54.0	-21.3	1.16 V	168	-3.69	36.39
7	7356.00	50.0 PK	74.0	-24.0	1.00 V	23	7.6	42.4
8	7356.00	38.4 AV	54.0	-15.6	1.00 V	23	-4.0	42.4

- 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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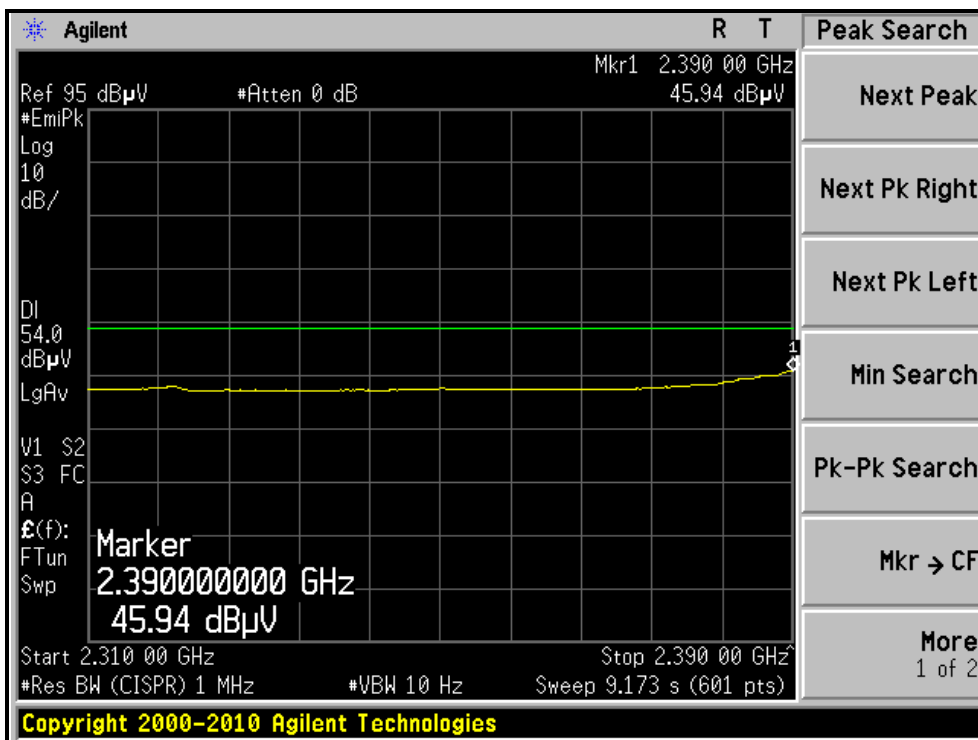
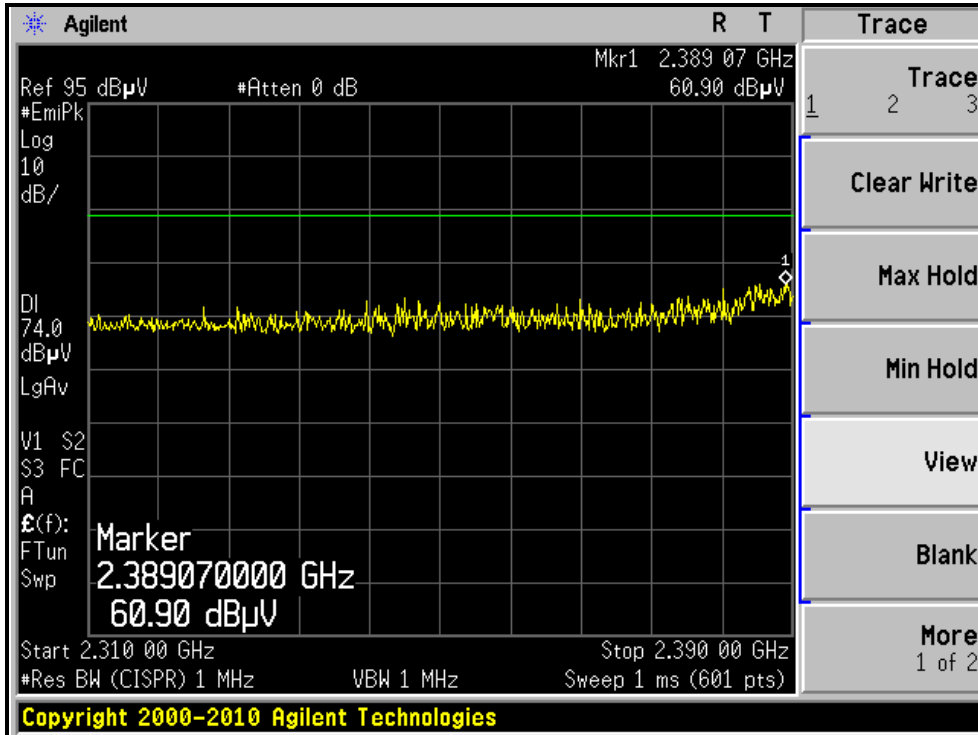
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH3, HORIZONTAL)



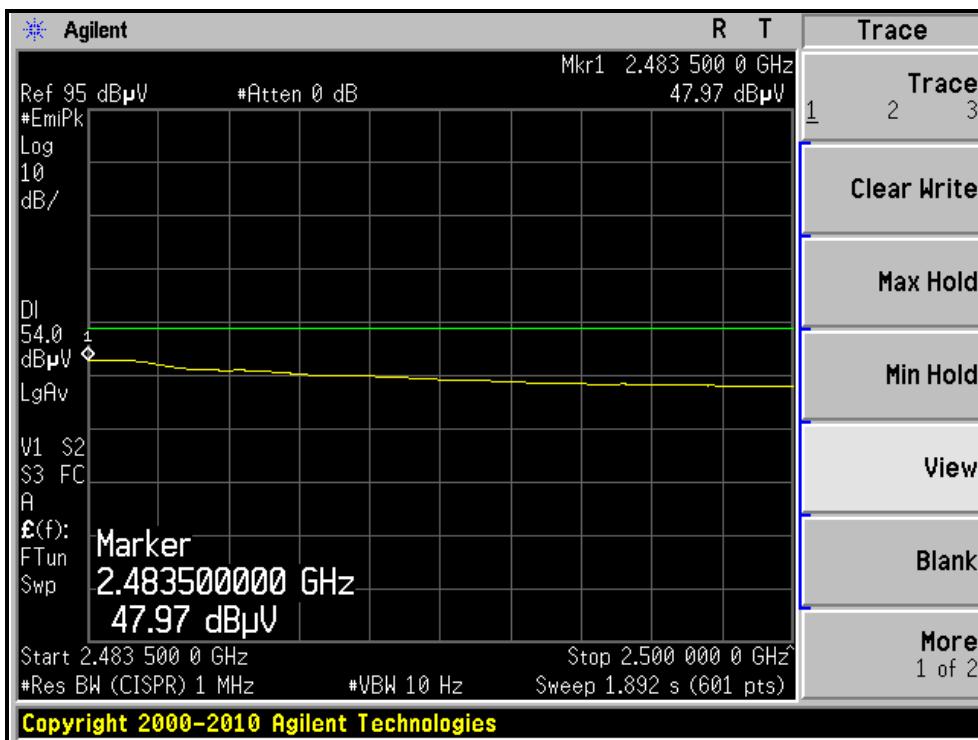
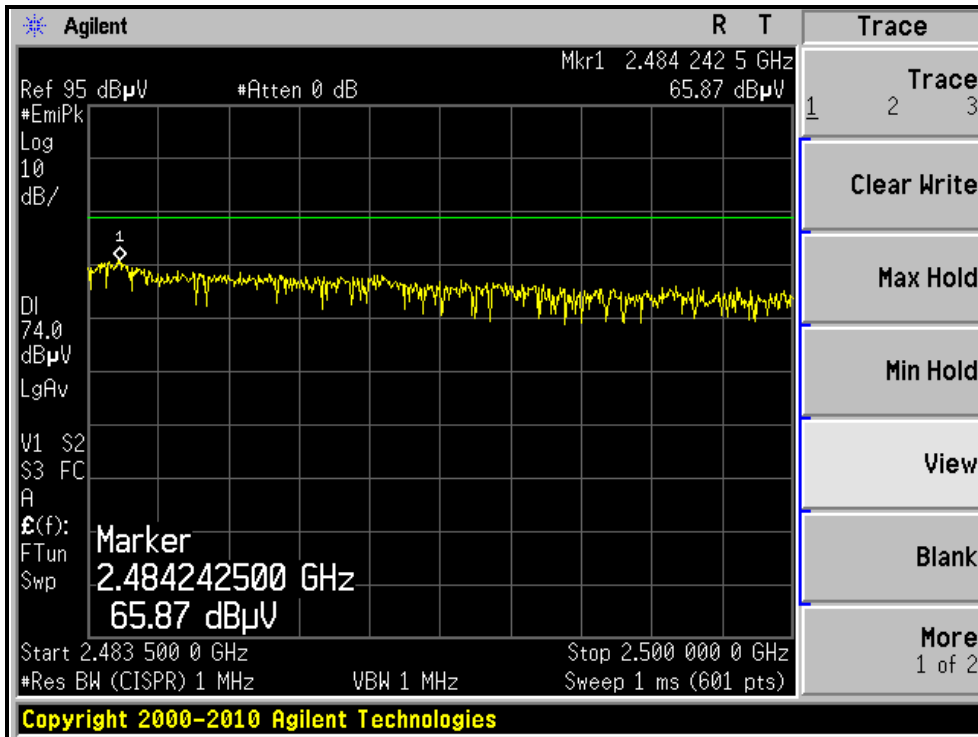


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RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH3, VERTICAL)



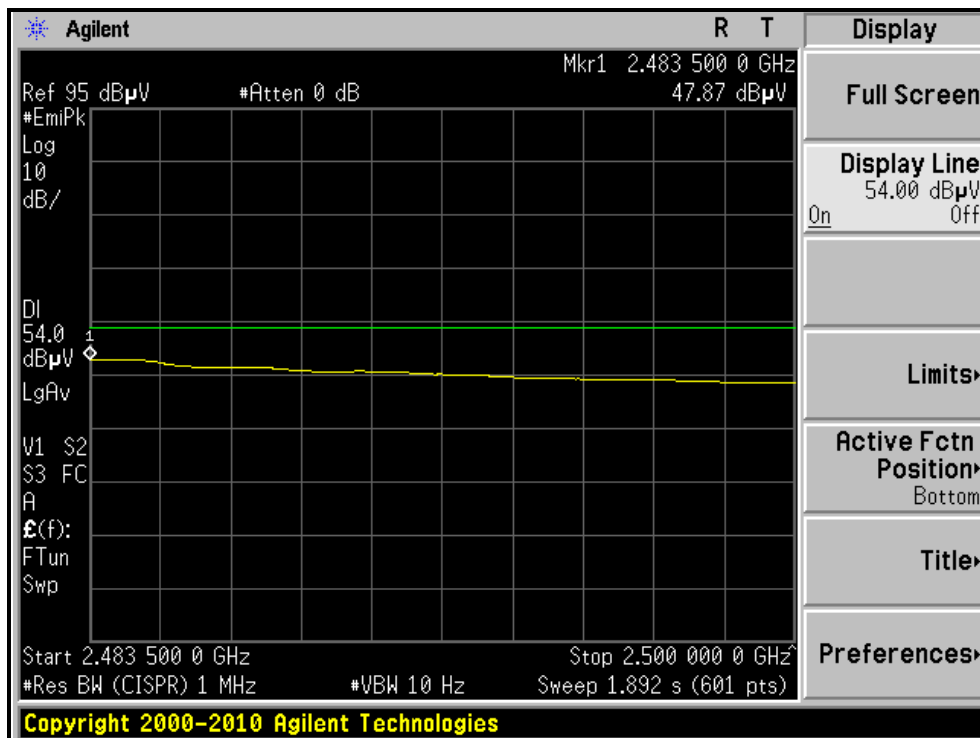
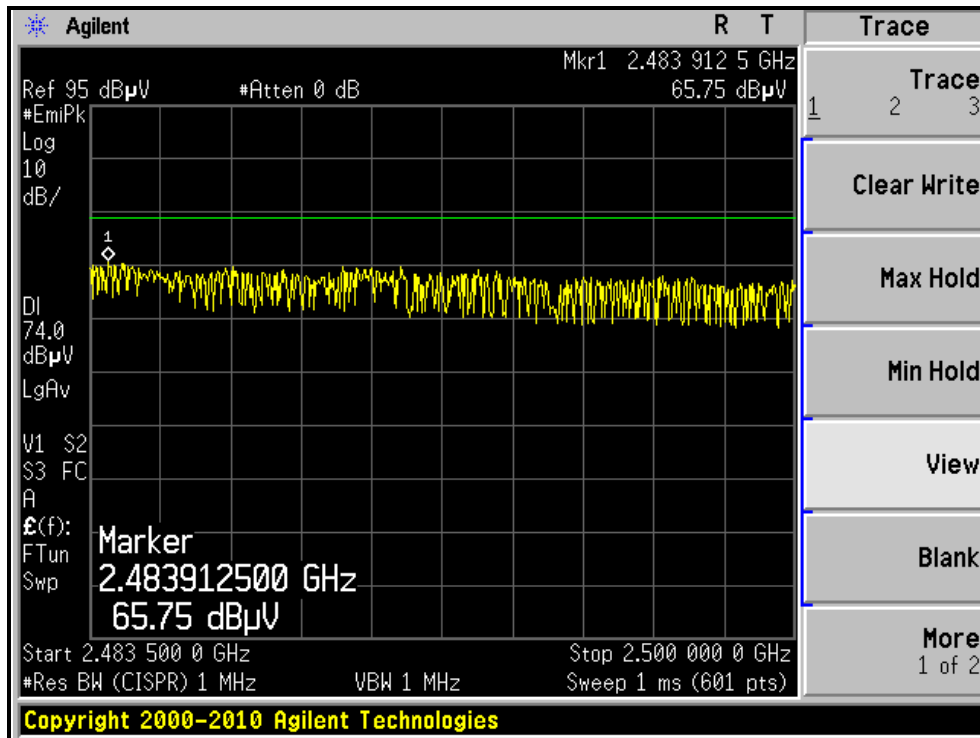
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH9, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH9, VERTICAL)





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4.2.8 TEST RESULTS (MODE C)

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 78%RH	TESTED BY	Frank 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	126.00	34.5 QP	43.5	-9.0	1.53 H	246	21.46	13.06
2	168.00	25.7 QP	43.5	-17.8	1.25 H	171	10.98	14.68
3	250.00	32.5 QP	46.0	-13.5	1.00 H	64	18.22	14.31
4	400.02	39.7 QP	46.0	-6.3	1.91 H	235	20.42	19.27
5	800.04	33.8 QP	46.0	-12.2	1.32 H	221	5.32	28.52
6	960.00	33.2 QP	46.0	-12.8	1.50 H	99	3.06	30.17
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	79.20	26.2 QP	40.0	-13.9	1.00 V	65	15.82	10.33
2	126.00	35.6 QP	43.5	-7.9	1.00 V	200	22.57	13.06
3	250.01	39.9 QP	46.0	-6.1	1.00 V	241	25.61	14.31
4	350.02	37.4 QP	46.0	-8.7	1.05 V	40	19.60	17.75
5	400.02	41.8 QP	46.0	-4.2	1.15 V	315	22.49	19.27
6	960.00	35.5 QP	46.0	-10.6	1.00 V	250	5.28	30.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	55.8 PK	74.0	-18.2	1.36 H	172	24.48	31.32
2	2390.00	42.8 AV	54.0	-11.2	1.36 H	172	11.48	31.32
3	*2412.00	97.9 PK			1.35 H	173	66.51	31.39
4	*2412.00	95.4 AV			1.35 H	173	64.01	31.39
5	4824.00	48.3 PK	74.0	-25.7	1.46 H	165	12.13	36.17
6	4824.00	43.1 AV	54.0	-10.9	1.46 H	165	6.93	36.17

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	56.7 PK	74.0	-17.3	1.00 V	19	25.38	31.32
2	2390.00	44.0 AV	54.0	-10.0	1.00 V	19	12.68	31.32
3	*2412.00	108.2 PK			1.00 V	18	76.81	31.39
4	*2412.00	106.0 AV			1.00 V	18	74.61	31.39
5	4824.00	52.1 PK	74.0	-21.9	1.52 V	344	15.93	36.17
6	4824.00	49.1 AV	54.0	-4.9	1.52 V	344	12.93	36.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	98.6 PK			1.35 H	175	67.11	31.49
2	*2437.00	96.3 AV			1.35 H	175	64.81	31.49
3	4874.00	48.2 PK	74.0	-25.8	1.18 H	178	11.89	36.31
4	4874.00	43.7 AV	54.0	-10.3	1.18 H	178	7.39	36.31
5	7311.00	48.9 PK	74.0	-25.1	1.00 H	36	6.67	42.23
6	7311.00	37.2 AV	54.0	-16.8	1.00 H	36	-5.03	42.23
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	109.1 PK			1.00 V	19	77.61	31.49
2	*2437.00	107.0 AV			1.00 V	19	75.51	31.49
3	4874.00	49.7 PK	74.0	-24.3	1.64 V	351	13.39	36.31
4	4874.00	46.3 AV	54.0	-7.7	1.64 V	351	9.99	36.31
5	7311.00	48.9 PK	74.0	-25.1	1.21 V	156	6.67	42.23
6	7311.00	37.5 AV	54.0	-16.5	1.21 V	156	-4.73	42.23

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

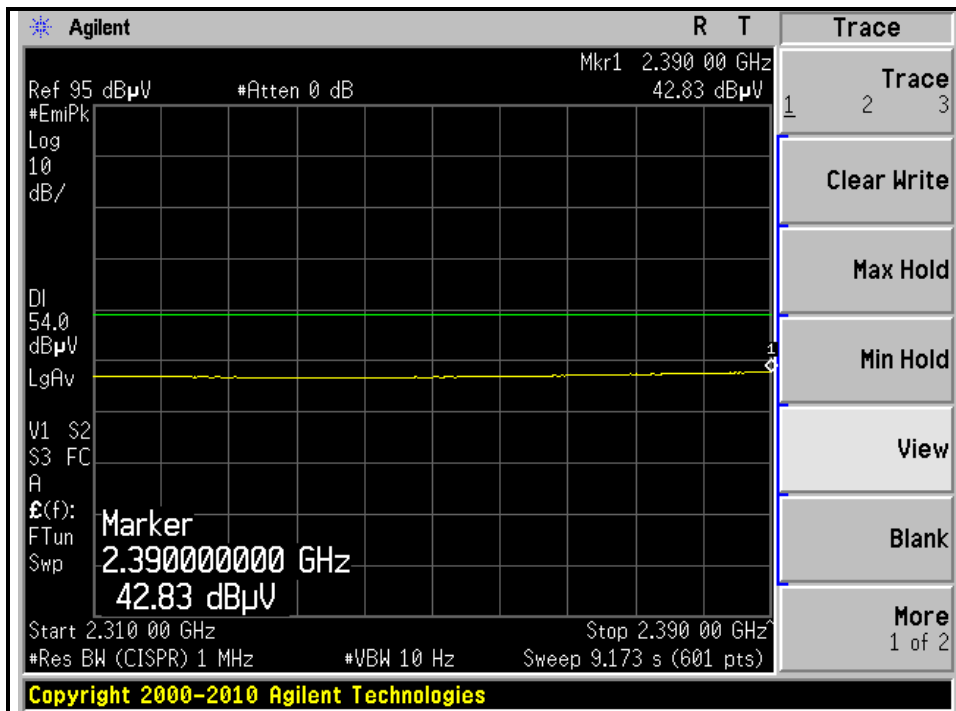
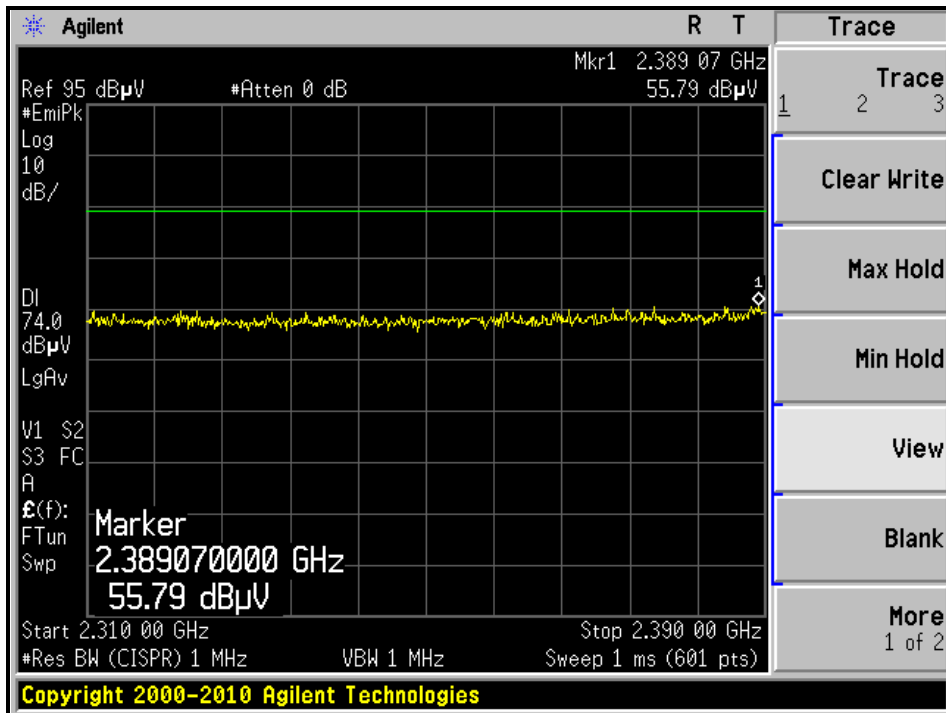
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	96.1 PK			1.37 H	172	64.52	31.58
2	*2462.00	93.6 AV			1.37 H	172	62.02	31.58
3	2483.50	56.0 PK	74.0	-18.0	1.34 H	157	24.34	31.66
4	2483.50	42.6 AV	54.0	-11.4	1.34 H	157	10.94	31.66
5	4924.00	48.1 PK	74.0	-25.9	1.43 H	177	11.68	36.42
6	4924.00	43.5 AV	54.0	-10.5	1.43 H	177	7.08	36.42
7	7386.00	48.7 PK	74.0	-25.3	1.00 H	35	6.18	42.52
8	7386.00	36.8 AV	54.0	-17.2	1.00 H	35	-5.72	42.52
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	108.8 PK			1.52 V	59	77.22	31.58
2	*2462.00	106.7 AV			1.52 V	59	75.12	31.58
3	2483.50	56.3 PK	74.0	-17.7	1.52 V	59	24.64	31.66
4	2483.50	44.1 AV	54.0	-9.9	1.52 V	59	12.44	31.66
5	4924.00	49.2 PK	74.0	-24.8	1.84 V	352	12.78	36.42
6	4924.00	45.8 AV	54.0	-8.2	1.84 V	352	9.38	36.42
7	7386.00	48.8 PK	74.0	-25.2	1.20 V	153	6.28	42.52
8	7386.00	37.6 AV	54.0	-16.4	1.20 V	153	-4.92	42.52

- 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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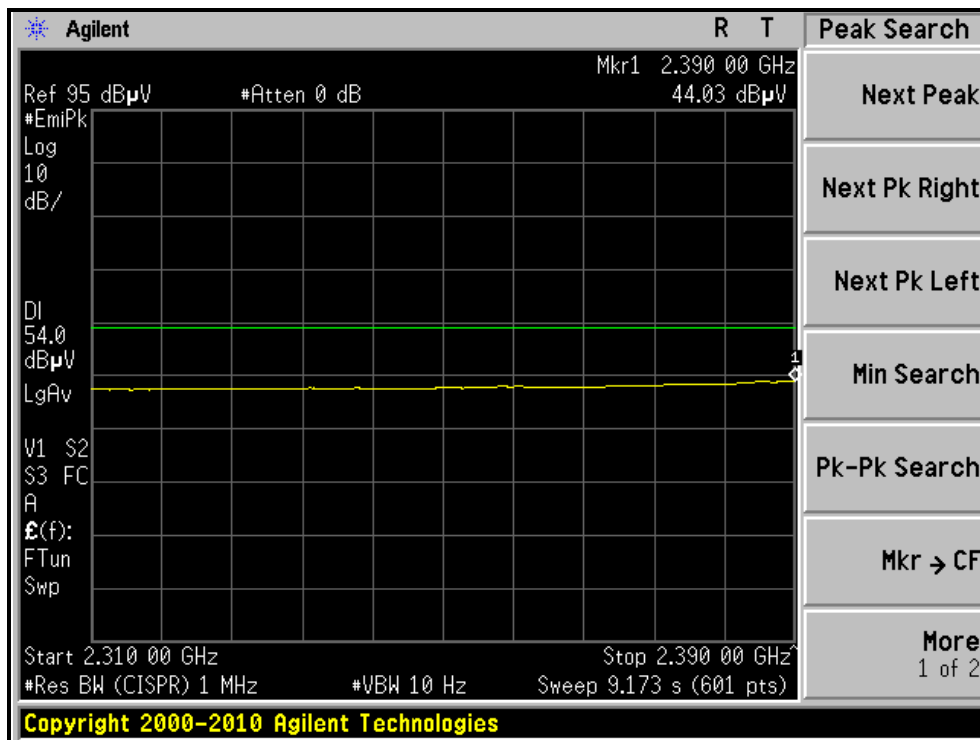
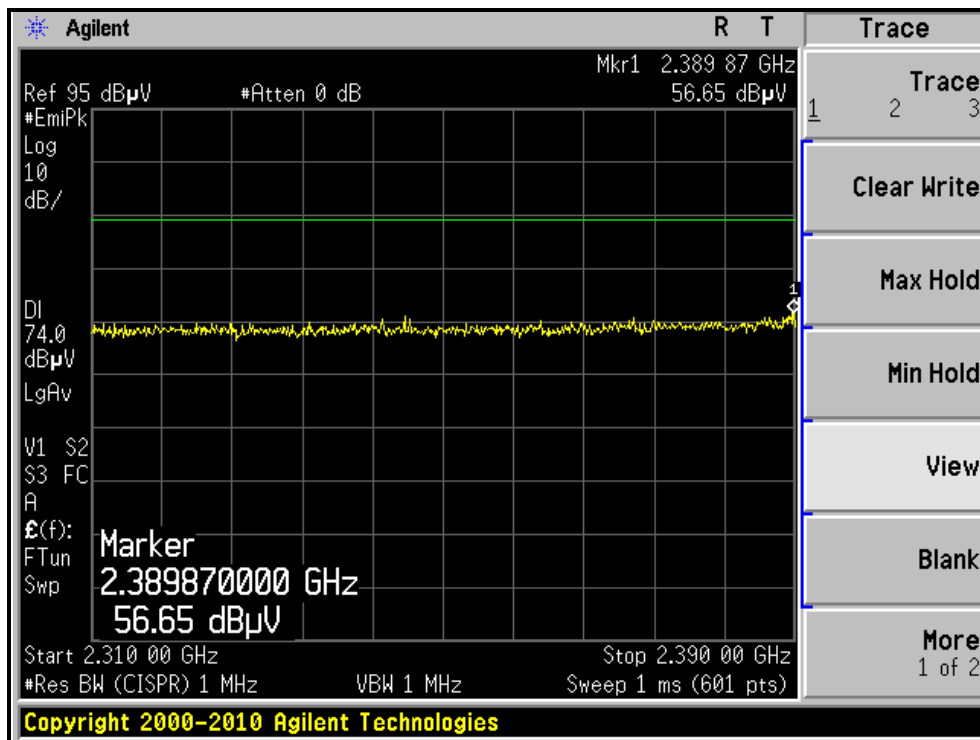
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)





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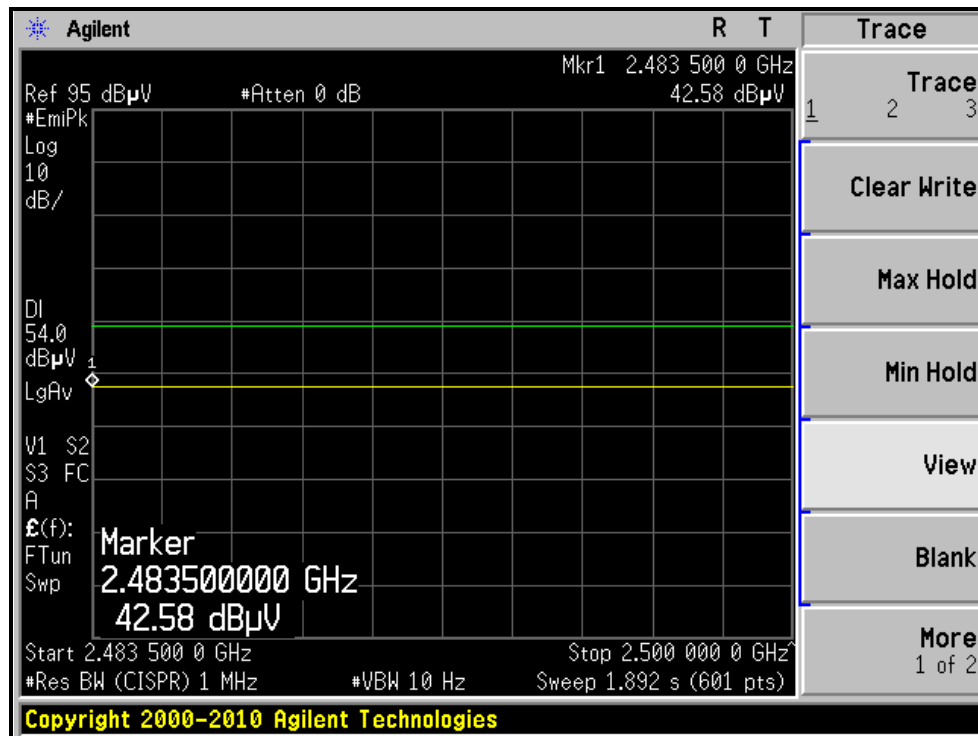
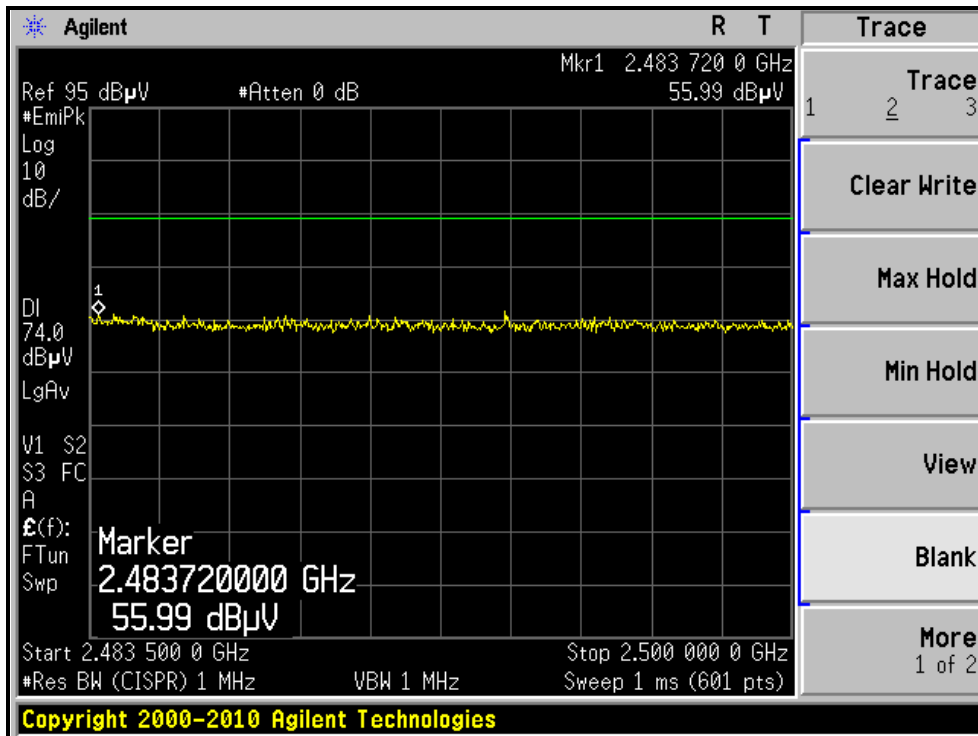
RESTRICTED BANDEDGE (802.11b MODE, CH1, VERTICAL)





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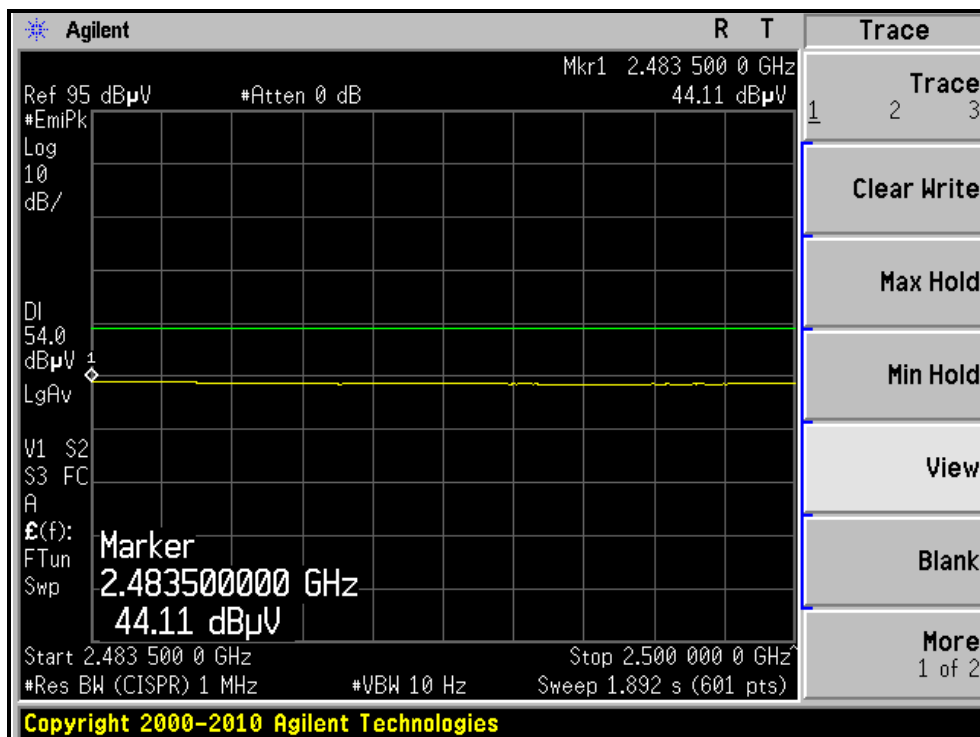
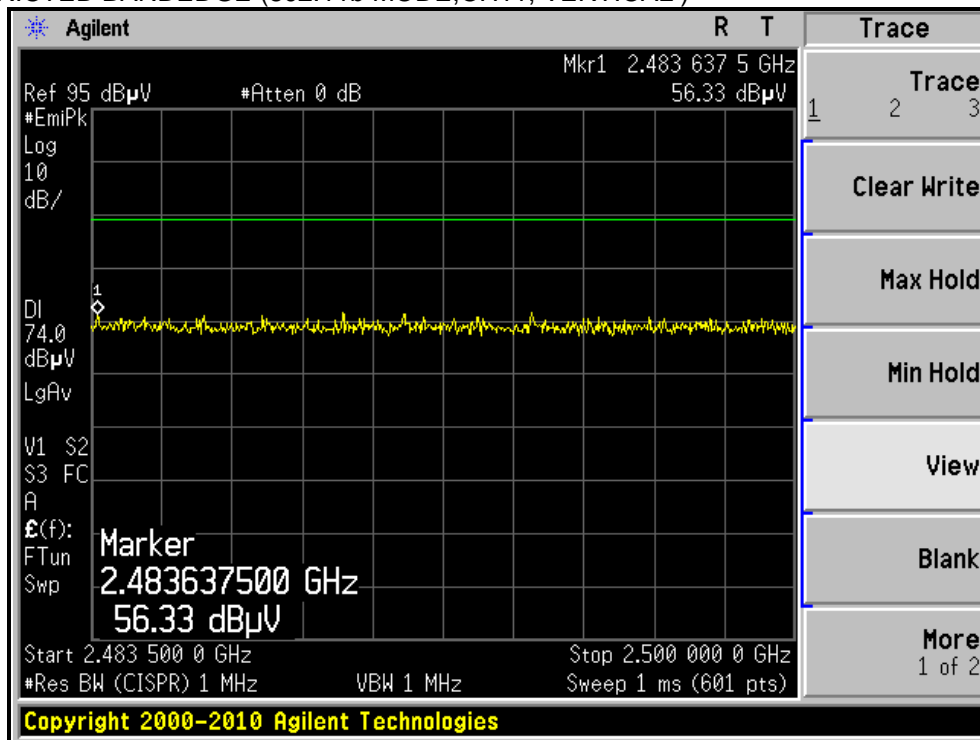
RESTRICTED BANDEDGE (802.11b MODE,CH11, HORIZONTAL)





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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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	56.4 PK	74.0	-17.6	1.33 H	174	25.08	31.32
2	2390.00	44.5 AV	54.0	-9.5	1.33 H	174	13.18	31.32
3	*2412.00	102.0 PK			1.34 H	174	70.61	31.39
4	*2412.00	91.6 AV			1.34 H	174	60.21	31.39
5	4824.00	44.9 PK	74.0	-29.1	1.48 H	166	8.73	36.17
6	4824.00	33.1 AV	54.0	-20.9	1.48 H	166	-3.07	36.17
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	69.4 PK	74.0	-4.6	1.53 V	78	38.08	31.32
2	2390.00	53.1 AV	54.0	-0.9	1.53 V	78	21.78	31.32
3	*2412.00	110.6 PK			1.51 V	79	79.21	31.39
4	*2412.00	100.6 AV			1.51 V	79	69.21	31.39
5	4824.00	46.9 PK	74.0	-27.1	1.42 V	310	10.73	36.17
6	4824.00	35.6 AV	54.0	-18.4	1.42 V	310	-0.57	36.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	55.6 PK	74.0	-18.4	1.36 H	175	24.28	31.32
2	2390.00	43.8 AV	54.0	-10.2	1.36 H	175	12.48	31.32
3	*2437.00	103.0 PK			1.35 H	174	71.51	31.49
4	*2437.00	92.8 AV			1.35 H	174	61.31	31.49
5	2483.50	56.6 PK	74.0	-17.4	1.33 H	155	24.94	31.66
6	2483.50	43.8 AV	54.0	-10.2	1.33 H	155	12.14	31.66
7	4874.00	45.3 PK	74.0	-28.7	1.50 H	164	8.99	36.31
8	4874.00	33.3 AV	54.0	-20.7	1.50 H	164	-3.01	36.31
9	7311.00	51.7 PK	74.0	-22.3	1.00 H	37	9.47	42.23
10	7311.00	37.1 AV	54.0	-16.9	1.00 H	37	-5.13	42.23
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	62.1 PK	74.0	-11.9	1.51 V	79	30.78	31.32
2	2390.00	51.2 AV	54.0	-2.8	1.51 V	79	19.88	31.32
3	*2437.00	113.2 PK			1.53 V	70	81.71	31.49
4	*2437.00	103.0 AV			1.53 V	70	71.51	31.49
5	2483.50	63.5 PK	74.0	-10.5	1.44 V	99	31.84	31.66
6	2483.50	52.8 AV	54.0	-1.2	1.44 V	99	21.14	31.66
7	4874.00	47.8 PK	74.0	-26.2	1.46 V	321	11.49	36.31
8	4874.00	36.3 AV	54.0	-17.7	1.46 V	321	-0.01	36.31
9	7311.00	64.8 PK	74.0	-9.2	1.20 V	303	22.57	42.23
10	7311.00	42.7 AV	54.0	-11.3	1.20 V	303	0.47	42.23

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

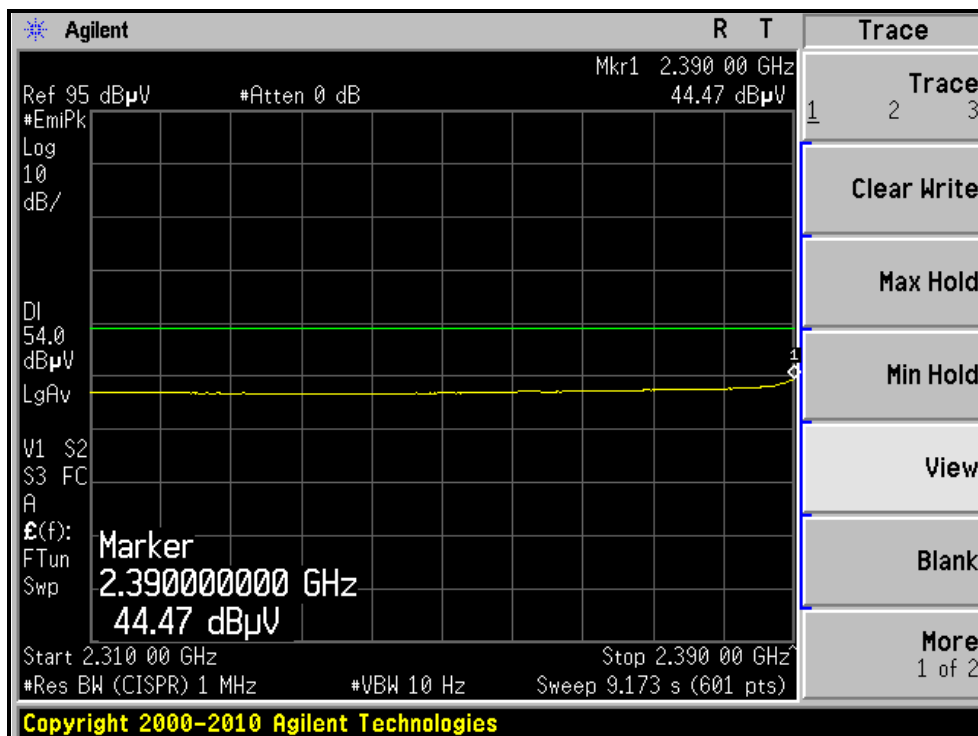
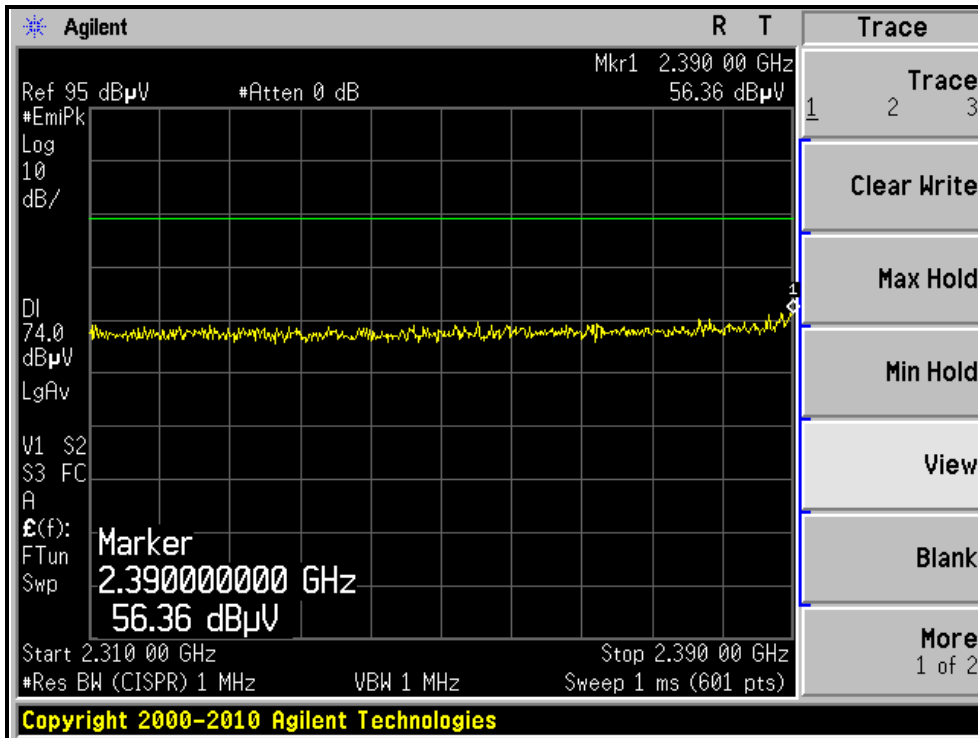
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	99.3 PK			1.35 H	172	67.72	31.58
2	*2462.00	88.7 AV			1.35 H	172	57.12	31.58
3	2483.50	58.3 PK	74.0	-15.7	1.35 H	155	26.64	31.66
4	2483.50	44.4 AV	54.0	-9.6	1.35 H	155	12.74	31.66
5	4924.00	44.8 PK	74.0	-29.2	1.45 H	167	8.38	36.42
6	4924.00	33.3 AV	54.0	-20.7	1.45 H	167	-3.12	36.42
7	7386.00	48.2 PK	74.0	-25.8	1.00 H	36	5.68	42.52
8	7386.00	36.9 AV	54.0	-17.1	1.00 H	36	-5.62	42.52
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	111.0 PK			1.51 V	70	79.42	31.58
2	*2462.00	100.8 AV			1.51 V	70	69.22	31.58
3	2483.50	68.7 PK	74.0	-5.3	1.44 V	102	37.04	31.66
4	2483.50	51.7 AV	54.0	-2.3	1.44 V	102	20.04	31.66
5	4924.00	47.4 PK	74.0	-26.6	1.45 V	313	10.98	36.42
6	4924.00	35.2 AV	54.0	-18.8	1.45 V	313	-1.22	36.42
7	7386.00	47.1 PK	74.0	-26.9	1.21 V	300	4.58	42.52
8	7386.00	37.6 AV	54.0	-16.4	1.21 V	300	-4.92	42.52

- 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.

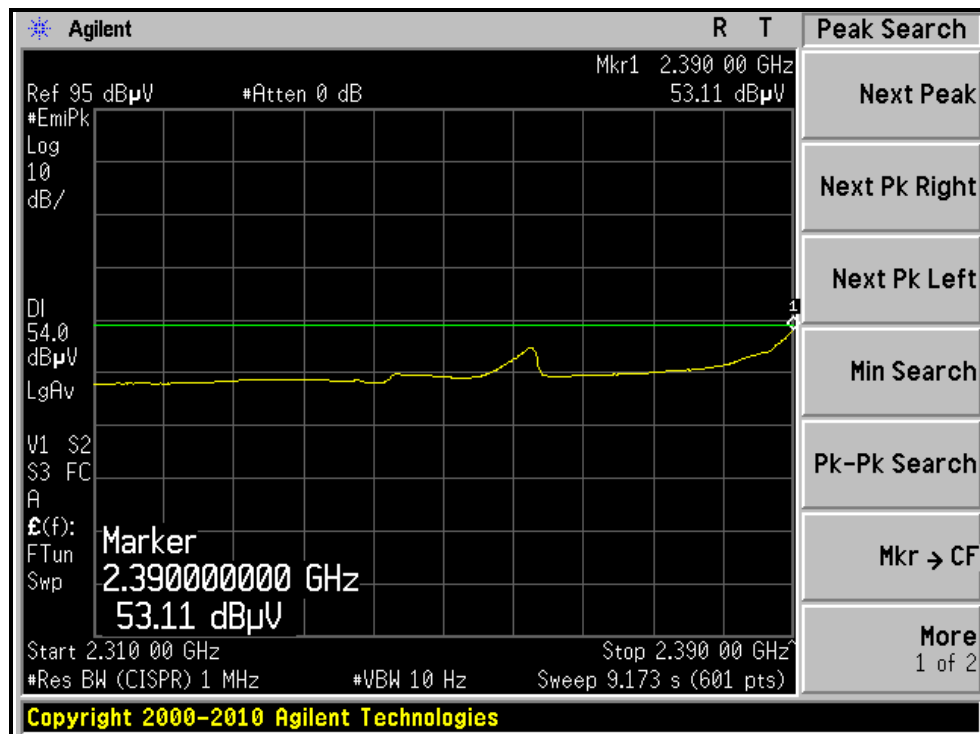
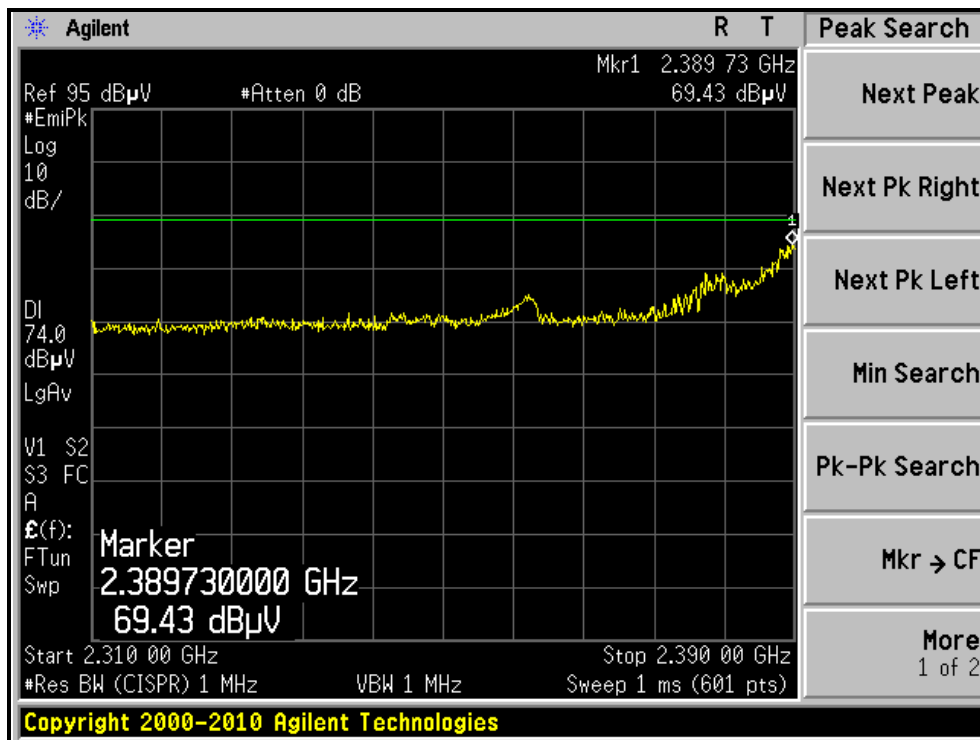


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RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)



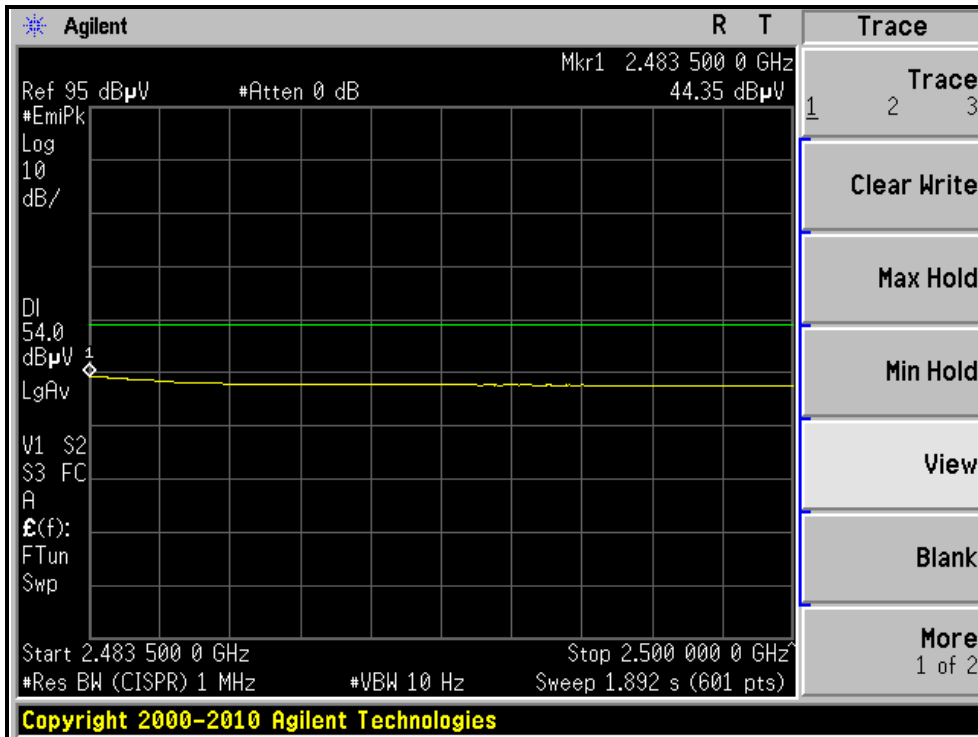
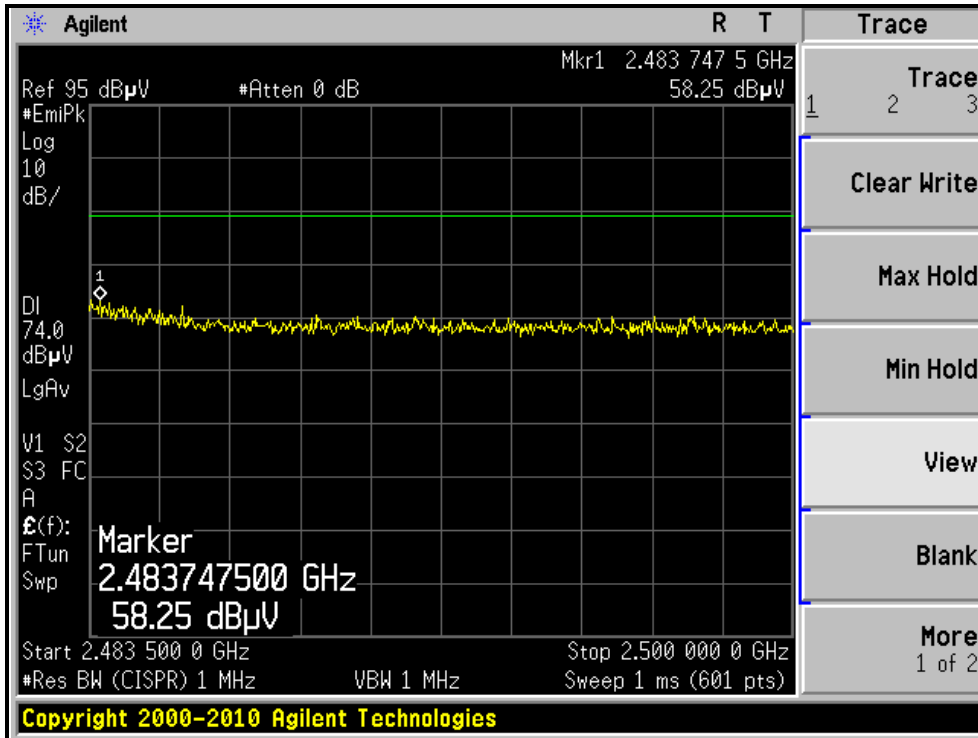
RESTRICTED BANDEDGE (802.11g MODE, CH1, VERTICAL)





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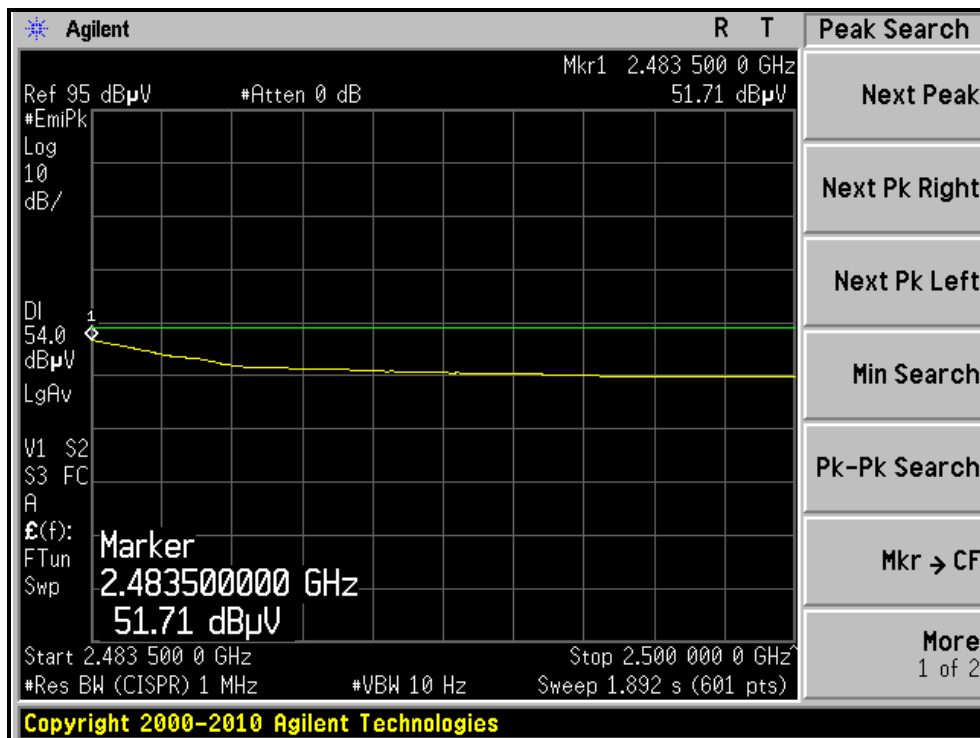
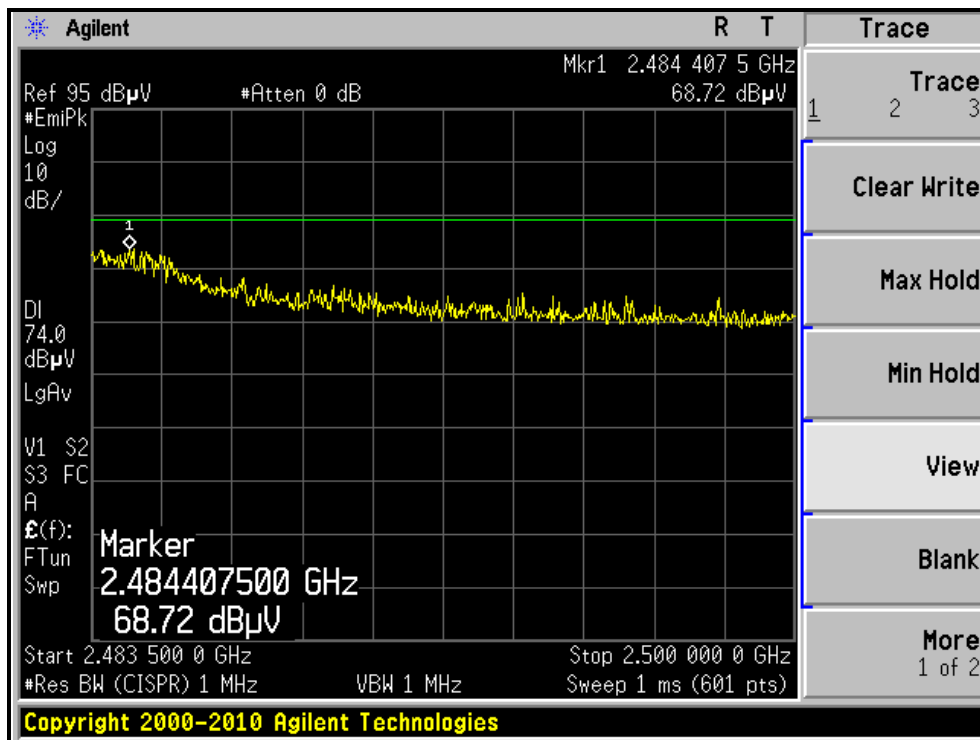
RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)





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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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	57.8 PK	74.0	-16.2	1.34 H	175	26.48	31.32
2	2390.00	44.2 AV	54.0	-9.8	1.34 H	175	12.88	31.32
3	*2412.00	99.7 PK			1.34 H	174	68.31	31.39
4	*2412.00	89.7 AV			1.34 H	174	58.31	31.39
5	4824.00	45.5 PK	74.0	-28.5	1.49 H	165	9.33	36.17
6	4824.00	33.4 AV	54.0	-20.6	1.49 H	165	-2.77	36.17
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	71.5 PK	74.0	-2.5	1.52 V	76	40.18	31.32
2	2390.00	53.0 AV	54.0	-1.0	1.52 V	76	21.68	31.32
3	*2412.00	109.4 PK			1.51 V	78	78.01	31.39
4	*2412.00	99.5 AV			1.51 V	78	68.11	31.39
5	4824.00	47.2 PK	74.0	-26.8	1.46 V	312	11.03	36.17
6	4824.00	34.0 AV	54.0	-20.0	1.46 V	312	-2.17	36.17

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	55.8 PK	74.0	-18.2	1.36 H	176	24.48	31.32
2	2390.00	44.2 AV	54.0	-9.8	1.36 H	176	12.88	31.32
3	*2437.00	101.1 PK			1.35 H	173	69.61	31.49
4	*2437.00	91.6 AV			1.35 H	173	60.11	31.49
5	2483.50	56.4 PK	74.0	-17.6	1.35 H	157	24.74	31.66
6	2483.50	43.3 AV	54.0	-10.7	1.35 H	157	11.64	31.66
7	4874.00	46.0 PK	74.0	-28.0	1.48 H	164	9.69	36.31
8	4874.00	33.8 AV	54.0	-20.2	1.48 H	164	-2.51	36.31
9	7311.00	53.4 PK	74.0	-20.6	1.00 H	36	11.17	42.23
10	7311.00	37.5 AV	54.0	-16.5	1.00 H	36	-4.73	42.23

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	63.4 PK	74.0	-10.6	1.51 V	77	32.08	31.32
2	2390.00	52.6 AV	54.0	-1.4	1.51 V	77	21.28	31.32
3	*2437.00	111.9 PK			1.52 V	70	80.41	31.49
4	*2437.00	102.3 AV			1.52 V	70	70.81	31.49
5	2483.50	63.7 PK	74.0	-10.3	1.44 V	99	32.04	31.66
6	2483.50	53.0 AV	54.0	-1.0	1.44 V	99	21.34	31.66
7	4874.00	47.8 PK	74.0	-26.2	1.46 V	323	11.49	36.31
8	4874.00	34.3 AV	54.0	-19.7	1.46 V	323	-2.01	36.31
9	7311.00	68.0 PK	74.0	-6.0	1.21 V	303	25.77	42.23
10	7311.00	42.5 AV	54.0	-11.5	1.21 V	303	0.27	42.23

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

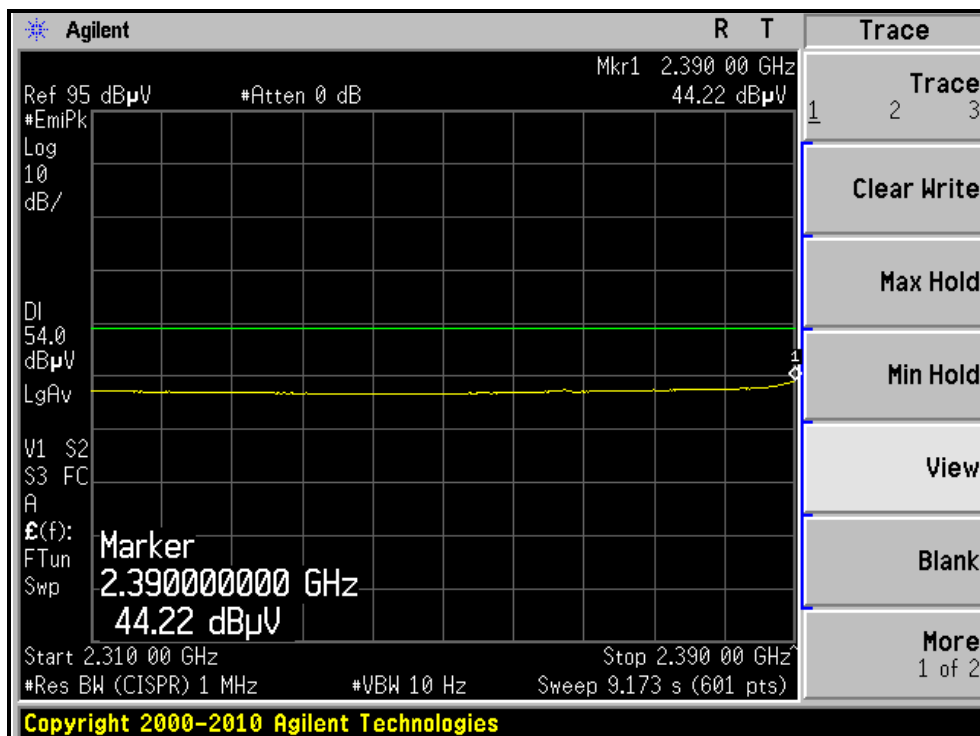
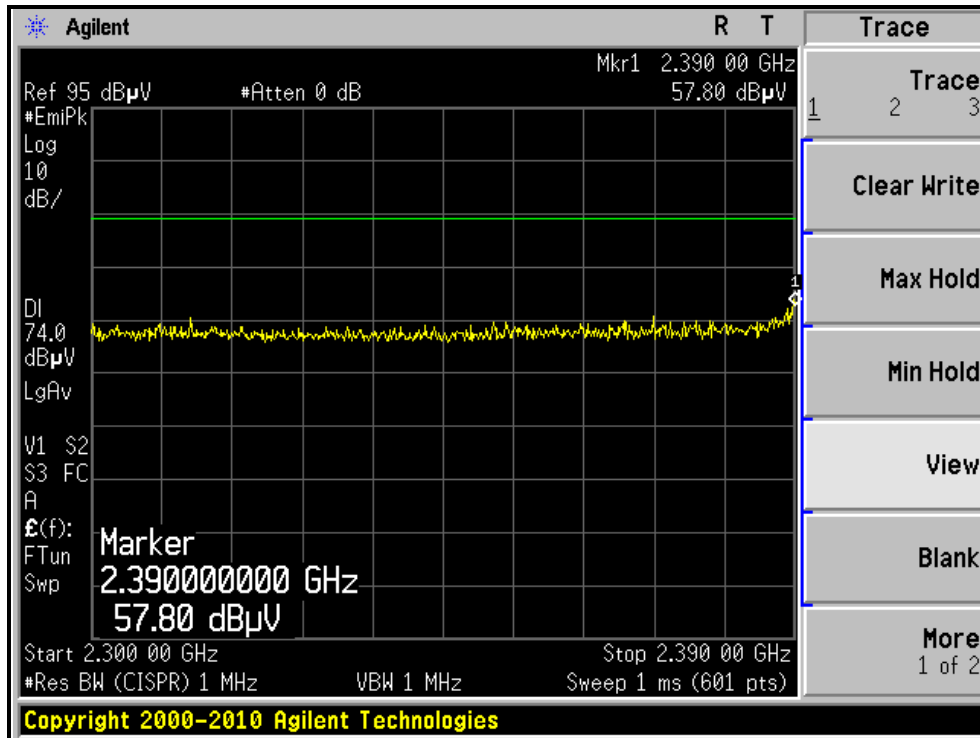
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NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	98.9 PK			1.35 H	172	67.32	31.58
2	*2462.00	87.3 AV			1.35 H	172	55.72	31.58
3	2483.50	58.4 PK	74.0	-15.6	1.34 H	156	26.74	31.66
4	2483.50	44.1 AV	54.0	-9.9	1.34 H	156	12.44	31.66
5	4924.00	45.6 PK	74.0	-28.4	1.50 H	171	9.18	36.42
6	4924.00	33.6 AV	54.0	-20.4	1.50 H	171	-2.82	36.42
7	7386.00	48.7 PK	74.0	-25.3	1.00 H	34	6.18	42.52
8	7386.00	36.7 AV	54.0	-17.3	1.00 H	34	-5.82	42.52
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	110.0 PK			1.51 V	70	78.42	31.58
2	*2462.00	100.0 AV			1.51 V	70	68.42	31.58
3	2483.50	71.5 PK	74.0	-2.5	1.45 V	102	39.84	31.66
4	2483.50	52.2 AV	54.0	-1.8	1.45 V	102	20.54	31.66
5	4924.00	47.3 PK	74.0	-26.7	1.46 V	316	10.88	36.42
6	4924.00	34.1 AV	54.0	-19.9	1.46 V	316	-2.32	36.42
7	7386.00	57.1 PK	74.0	-16.9	1.21 V	305	14.58	42.52
8	7386.00	37.4 AV	54.0	-16.6	1.21 V	305	-5.12	42.52

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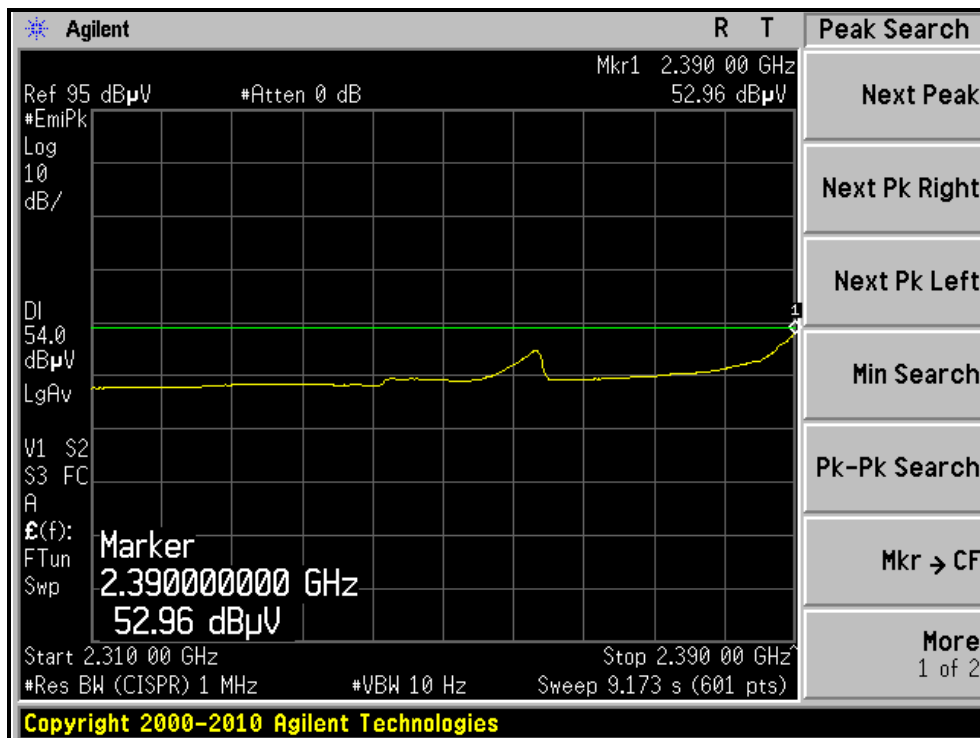
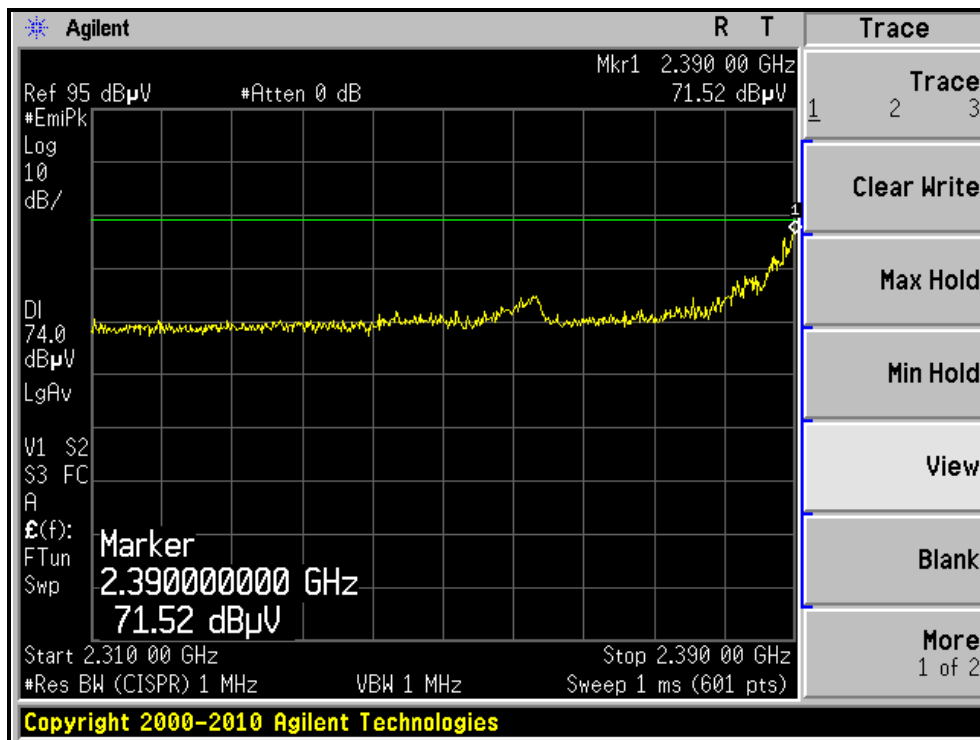
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH1, HORIZONTAL)





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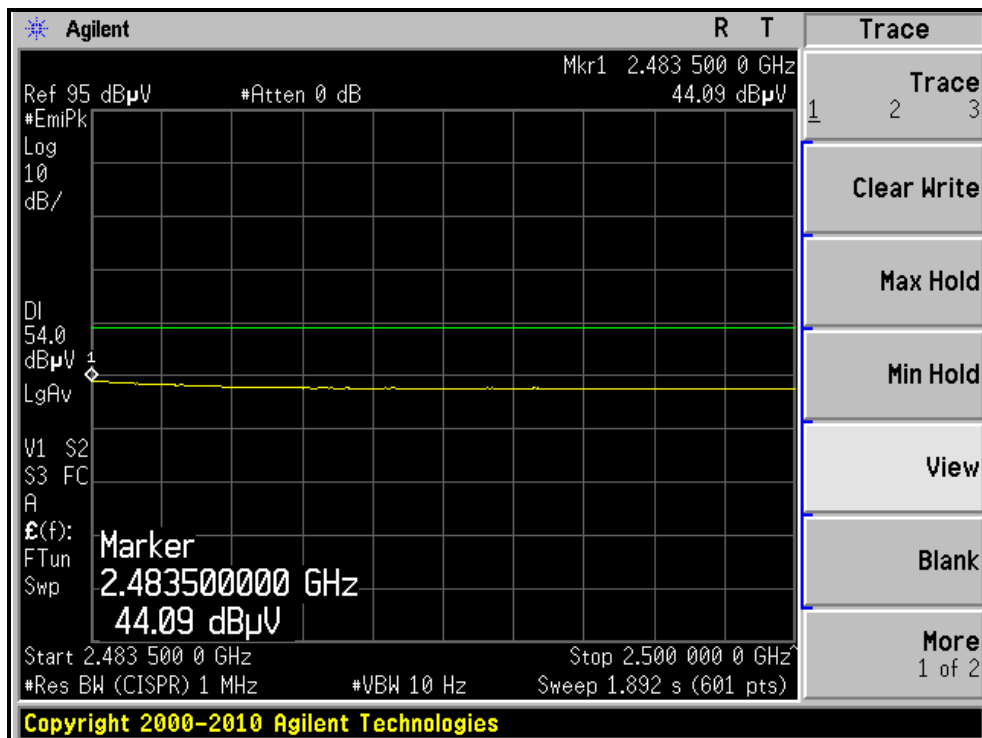
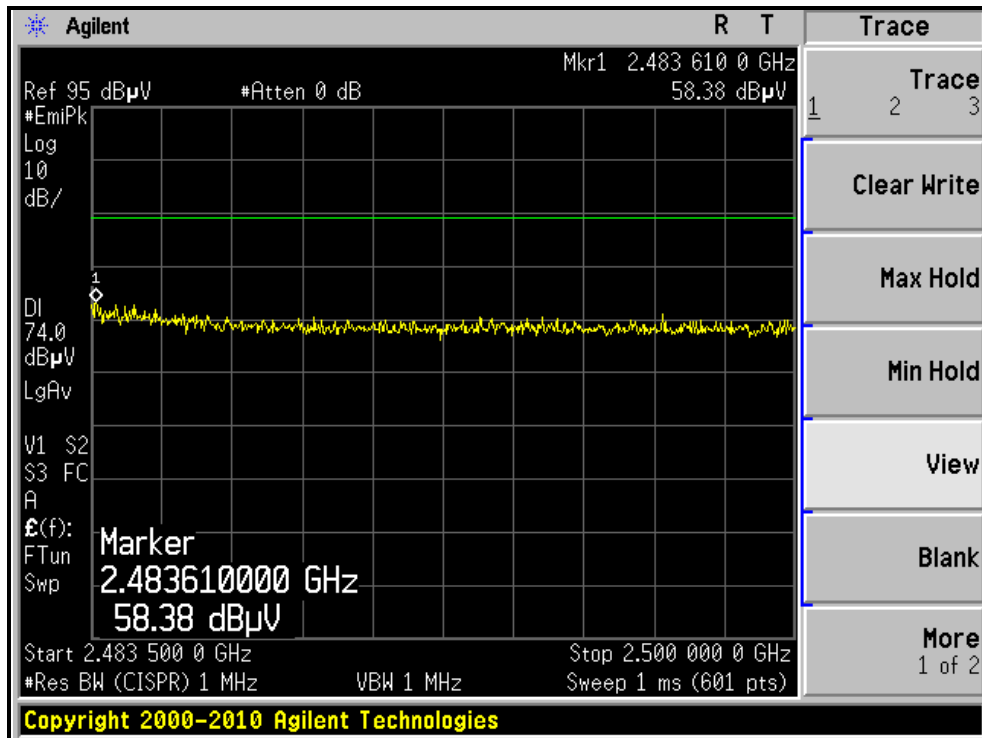
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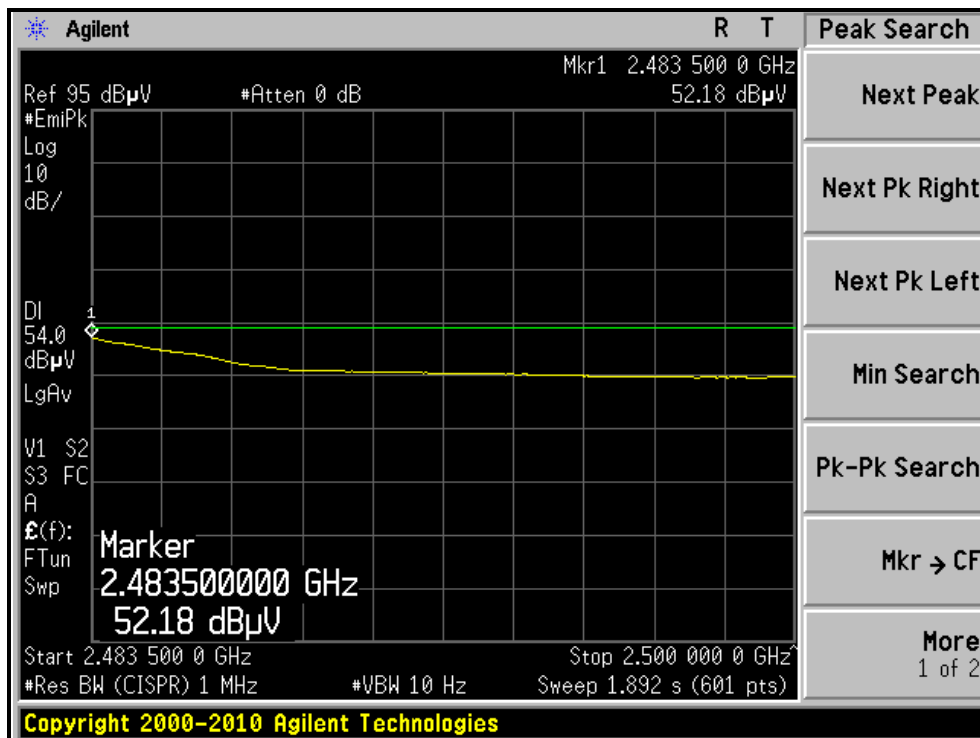
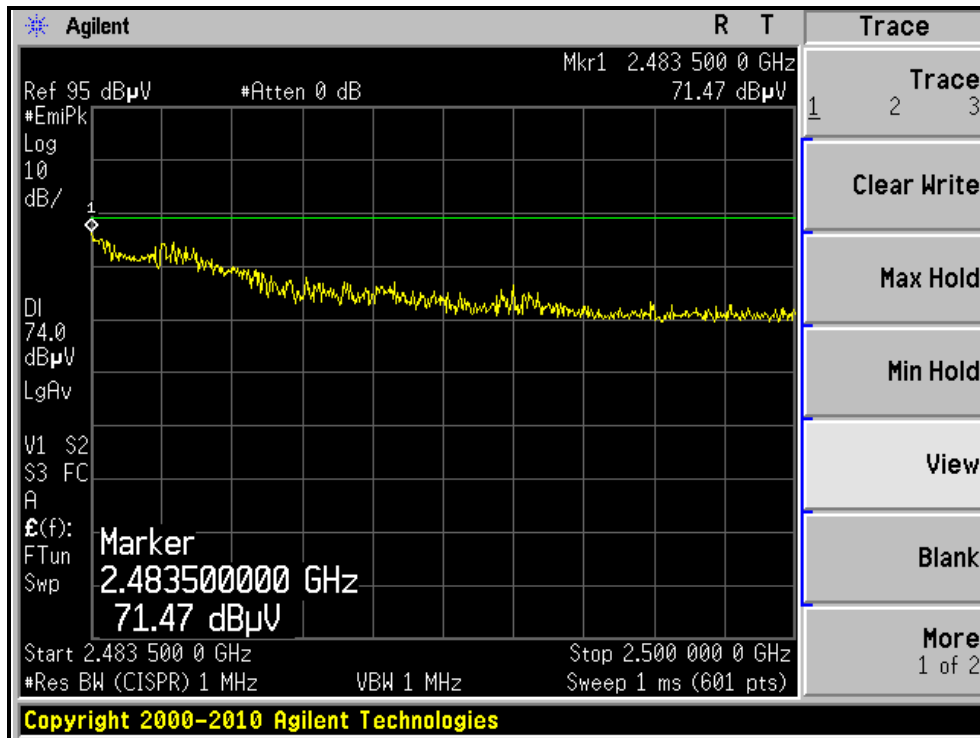
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH11, HORIZONTAL)





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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 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	58.0 PK	74.0	-16.0	1.36 H	173	26.68	31.32
2	2390.00	44.3 AV	54.0	-9.7	1.36 H	173	12.98	31.32
3	*2422.00	93.4 PK			1.35 H	172	61.97	31.43
4	*2422.00	84.3 AV			1.35 H	172	52.87	31.43
5	4844.00	44.5 PK	74.0	-29.5	1.49 H	169	8.28	36.22
6	4844.00	31.7 AV	54.0	-22.3	1.49 H	169	-4.52	36.22
7	7266.00	48.6 PK	74.0	-25.4	1.00 H	41	6.47	42.13
8	7266.00	36.8 AV	54.0	-17.2	1.00 H	41	-5.33	42.13
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	69.1 PK	74.0	-4.9	1.51 V	77	37.78	31.32
2	2390.00	52.3 AV	54.0	-1.7	1.51 V	77	20.98	31.32
3	*2422.00	103.3 PK			1.54 V	70	71.87	31.43
4	*2422.00	94.5 AV			1.54 V	70	63.07	31.43
5	4844.00	42.9 PK	74.0	-31.1	1.41 V	320	6.68	36.22
6	4844.00	32.5 AV	54.0	-21.5	1.41 V	320	-3.72	36.22
7	7266.00	48.8 PK	74.0	-25.2	1.23 V	100	6.67	42.13
8	7266.00	37.3 AV	54.0	-16.7	1.23 V	100	-4.83	42.13

- 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	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

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	57.4 PK	74.0	-16.6	1.00 H	36	26.08	31.32
2	2390.00	44.1 AV	54.0	-9.9	1.00 H	36	12.78	31.32
3	*2437.00	97.9 PK			1.35 H	174	66.41	31.49
4	*2437.00	88.0 AV			1.35 H	174	56.51	31.49
5	2483.50	58.7 PK	74.0	-15.3	1.35 H	159	27.04	31.66
6	2483.50	44.3 AV	54.0	-9.7	1.35 H	159	12.64	31.66
7	4874.00	44.1 PK	74.0	-29.9	1.47 H	166	7.79	36.31
8	4874.00	31.5 AV	54.0	-22.5	1.47 H	166	-4.81	36.31
9	7311.00	48.8 PK	74.0	-25.2	1.00 H	36	6.57	42.23
10	7311.00	36.9 AV	54.0	-17.1	1.00 H	36	-5.33	42.23
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	70.4 PK	74.0	-3.6	1.53 V	78	39.08	31.32
2	2390.00	52.0 AV	54.0	-2.0	1.53 V	78	20.68	31.32
3	*2437.00	108.9 PK			1.52 V	71	77.41	31.49
4	*2437.00	99.2 AV			1.52 V	71	67.71	31.49
5	2483.50	70.9 PK	74.0	-3.1	1.46 V	101	39.24	31.66
6	2483.50	52.4 AV	54.0	-1.6	1.46 V	101	20.74	31.66
7	4874.00	43.6 PK	74.0	-30.4	1.45 V	321	7.29	36.31
8	4874.00	32.3 AV	54.0	-21.7	1.45 V	321	-4.01	36.31
9	7311.00	58.1 PK	74.0	-15.9	1.21 V	301	15.87	42.23
10	7311.00	39.5 AV	54.0	-14.5	1.21 V	301	-2.73	42.23

- 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 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 78%RH	TESTED BY	Amos Chuang

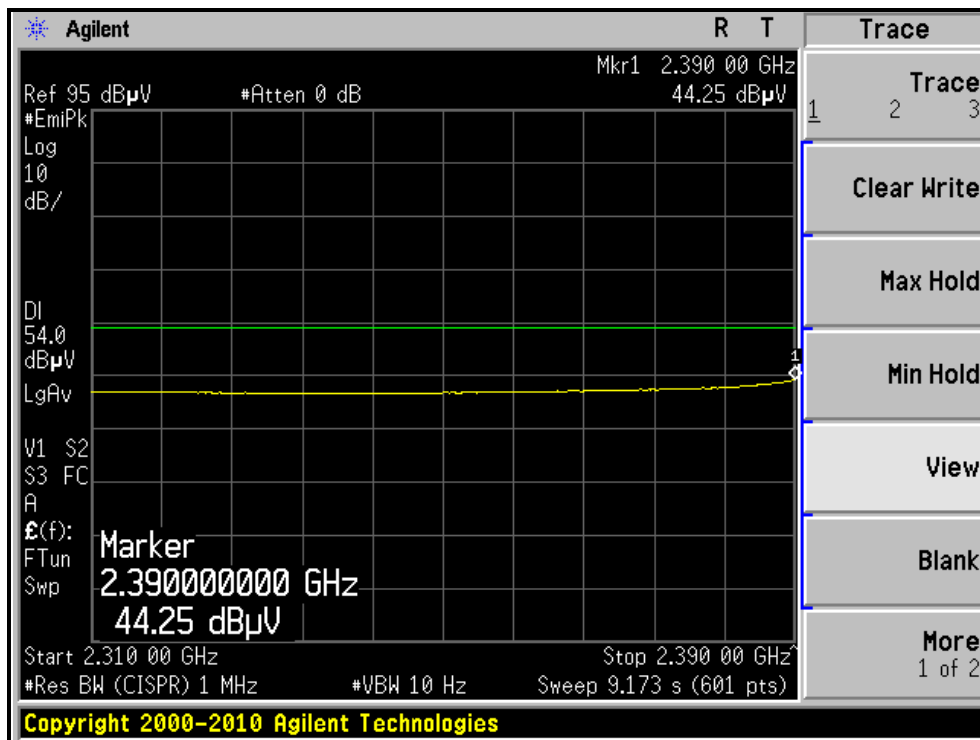
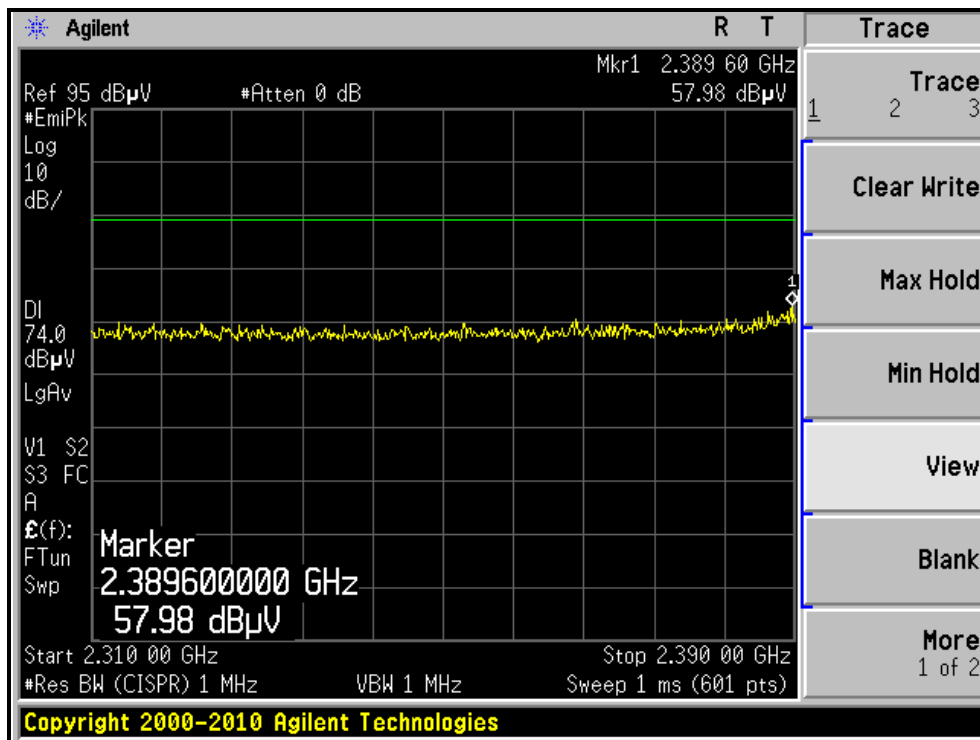
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	91.4 PK			1.36 H	173	59.86	31.54
2	*2452.00	83.1 AV			1.36 H	173	51.56	31.54
3	2483.50	60.2 PK	74.0	-13.8	1.36 H	157	28.54	31.66
4	2483.50	44.1 AV	54.0	-9.9	1.36 H	157	12.44	31.66
5	4904.00	44.3 PK	74.0	-29.7	1.45 H	170	7.91	36.39
6	4904.00	31.6 AV	54.0	-22.4	1.45 H	170	-4.79	36.39
7	7356.00	49.1 PK	74.0	-24.9	1.00 H	37	6.70	42.40
8	7356.00	37.0 AV	54.0	-17.0	1.00 H	37	-5.40	42.40
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	*2452.00	102.9 PK			1.47 V	86	71.36	31.54
2	*2452.00	93.5 AV			1.47 V	86	61.96	31.54
3	2483.50	70.5 PK	74.0	-3.5	1.47 V	102	38.84	31.66
4	2483.50	52.4 AV	54.0	-1.6	1.47 V	102	20.74	31.66
5	4904.00	43.6 PK	74.0	-30.4	1.45 V	332	7.21	36.39
6	4904.00	32.5 AV	54.0	-21.5	1.45 V	332	-3.89	36.39
7	7356.00	43.6 PK	74.0	-30.4	1.22 V	301	1.20	42.40
8	7356.00	37.3 AV	54.0	-21.5	1.22 V	301	-9.90	42.40

- 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.

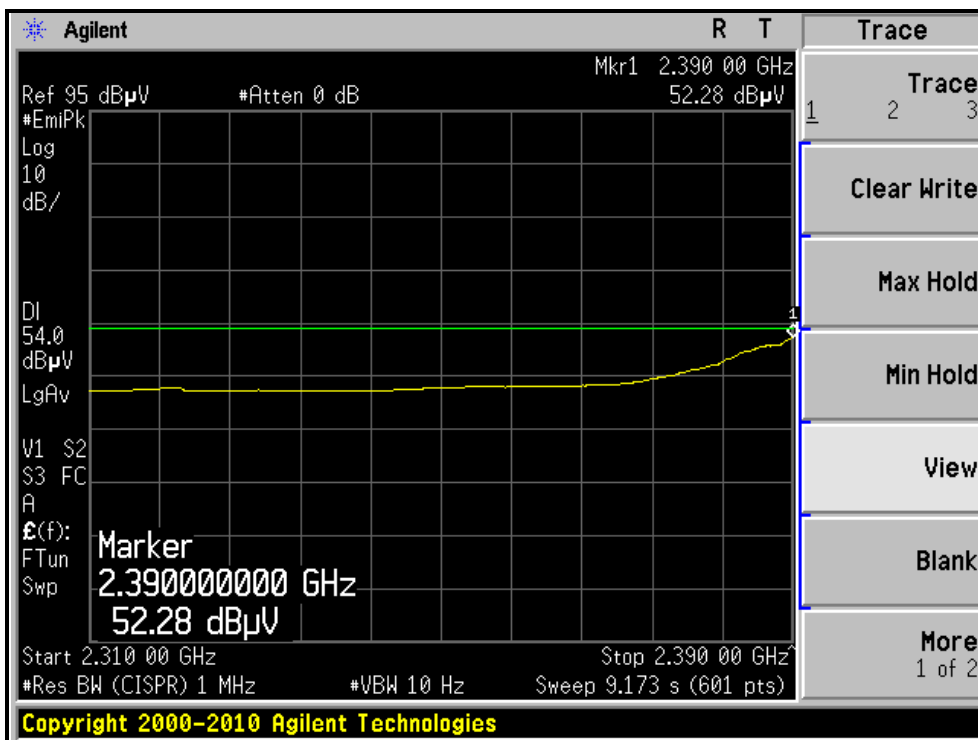
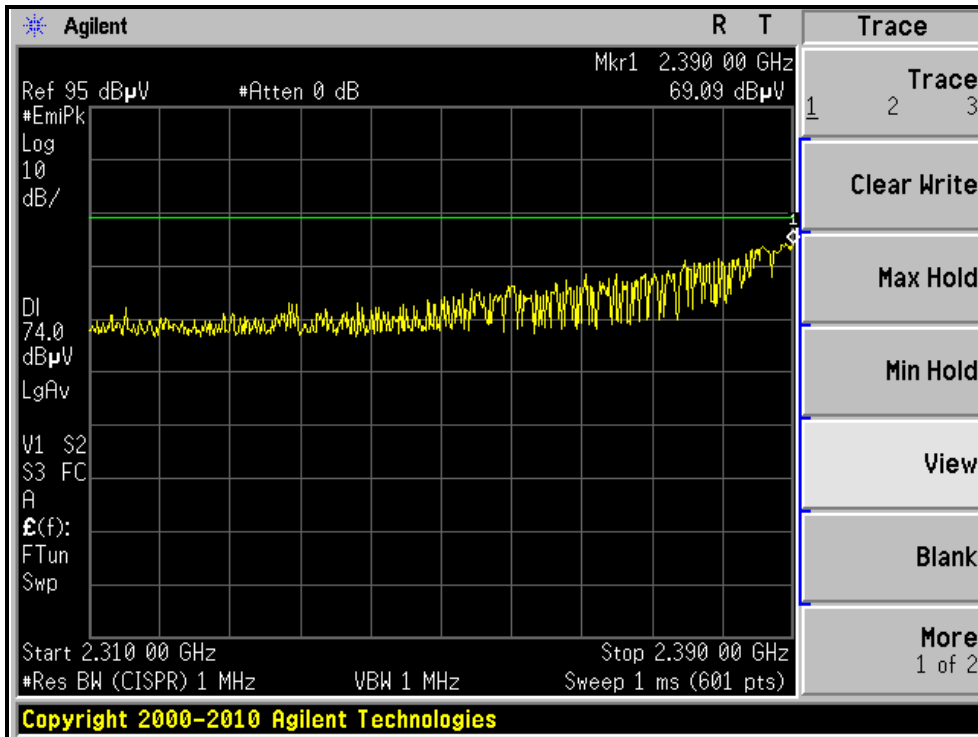


A D T

RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH3, HORIZONTAL)



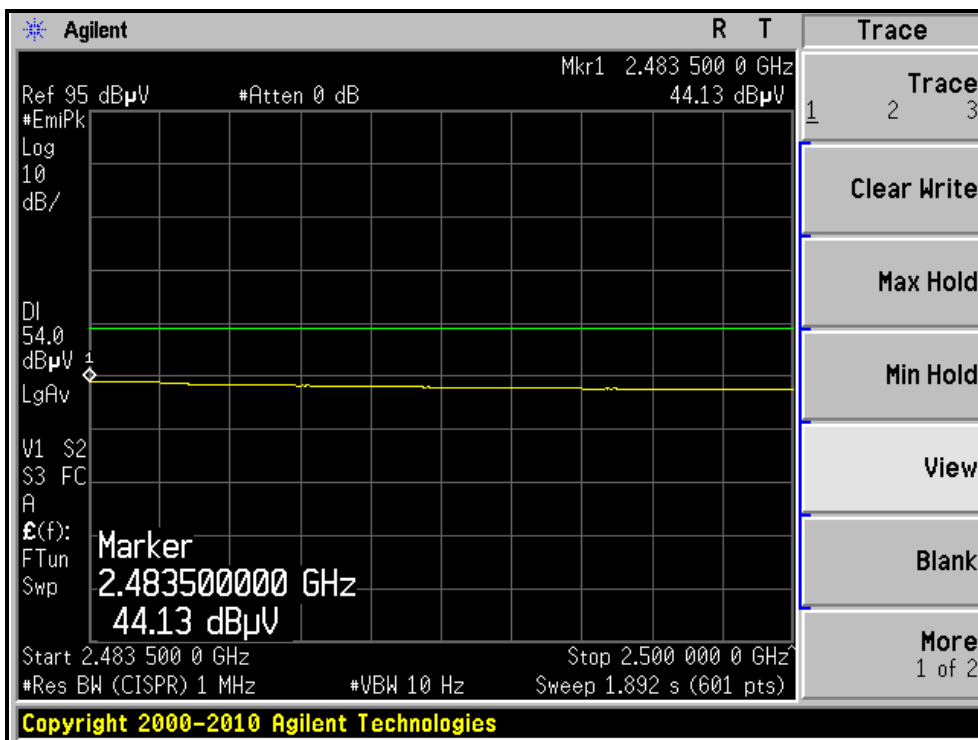
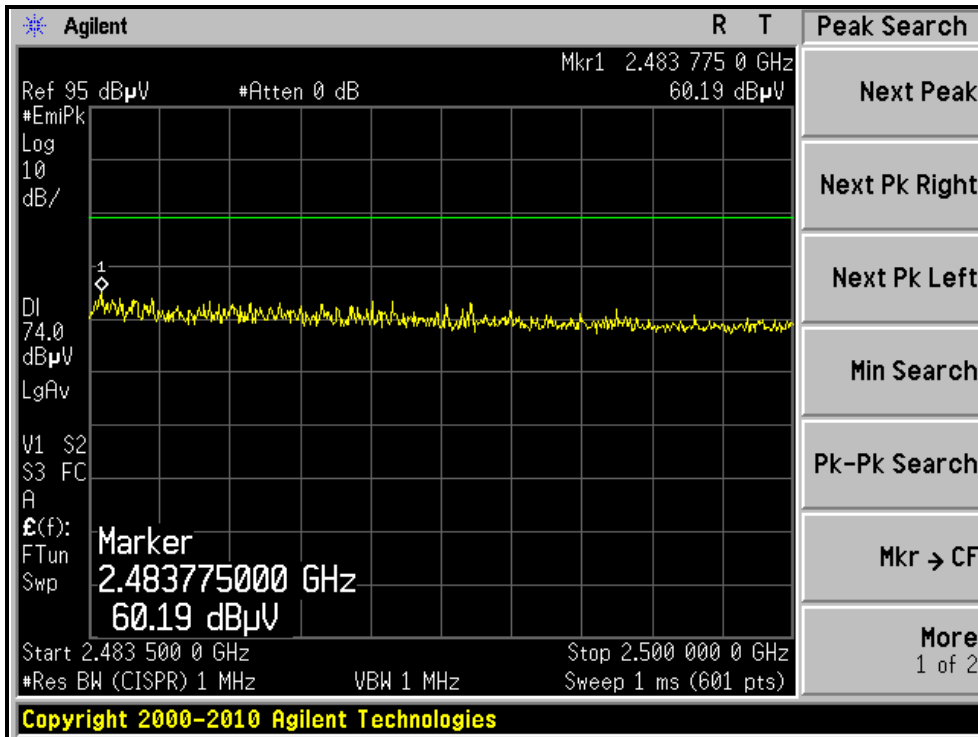
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH3, VERTICAL)





A D T

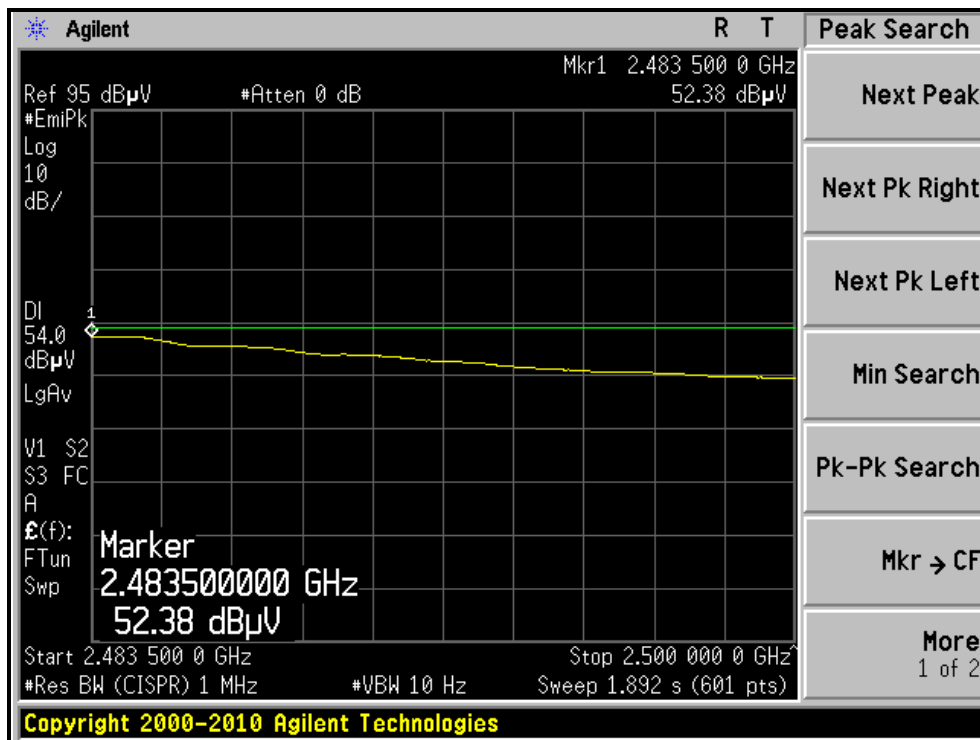
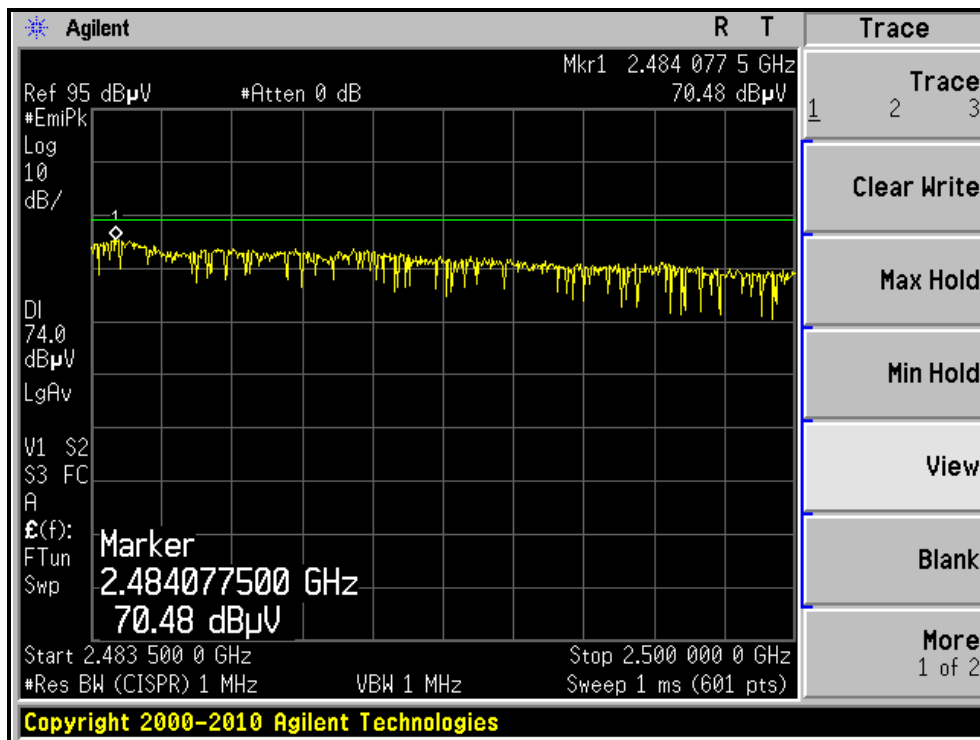
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH9, HORIZONTAL)





A D T

RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH9, 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

Test date: Dec. 14, 2011

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP 40	100060	May 11, 2011	May 10, 2012

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 300kHz 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.

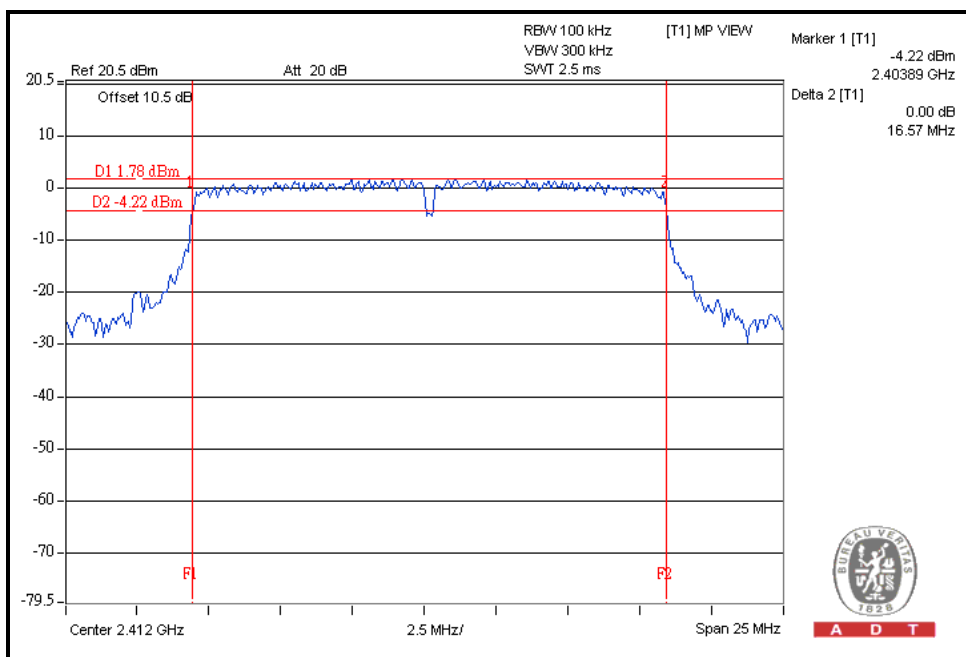


A D T

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.57	0.5	PASS
6	2437	16.56	0.5	PASS
11	2462	16.54	0.5	PASS

CH1



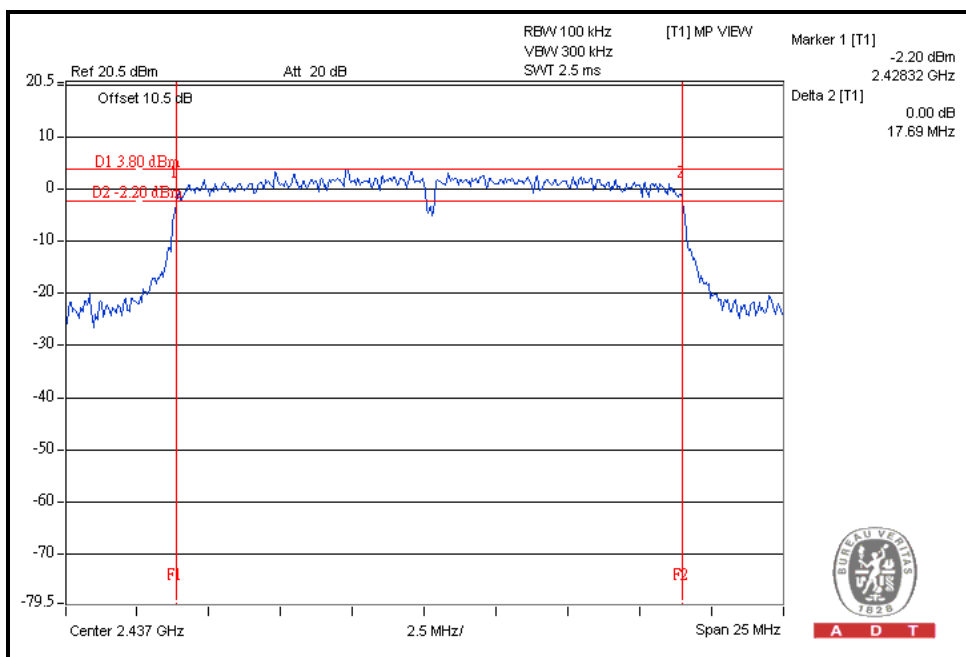


A D T

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.68	0.5	PASS
6	2437	17.69	0.5	PASS
11	2462	17.67	0.5	PASS

CH6



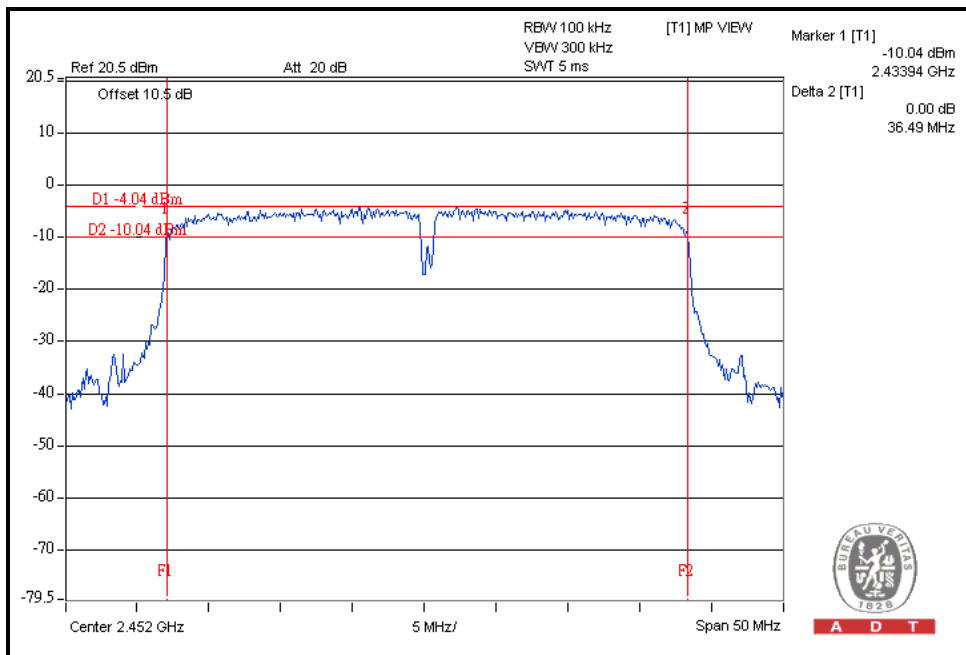


A D T

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	36.42	0.5	PASS
6	2437	36.47	0.5	PASS
9	2452	36.49	0.5	PASS

CH9



A D T

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

Test date: Dec. 14, 2011

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Peak Power Meter	ML2495A	0824006	May 04, 2011	May 03, 2012
Power Sensor	MA2411B	0738172	May 03, 2011	May 02, 2012

NOTE:

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

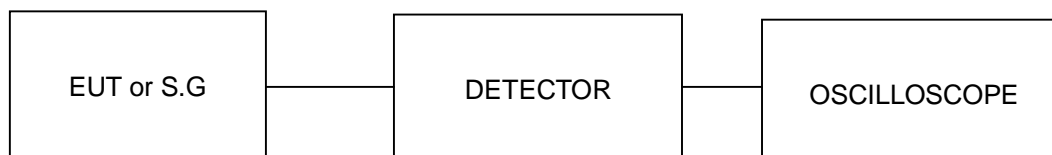
4.4.3 TEST PROCEDURES

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	144.5	21.6	30	PASS
6	2437	144.5	21.6	30	PASS
11	2462	141.3	21.5	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	239.9	23.8	30	PASS
6	2437	281.8	24.5	30	PASS
11	2462	257.0	24.1	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	208.9	23.2	30	PASS
6	2437	263.0	24.2	30	PASS
11	2462	218.8	23.4	30	PASS



A D T

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
3	2422	112.2	20.5	30	PASS
6	2437	223.9	23.5	30	PASS
9	2452	107.2	20.3	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

Test date: Dec. 14, 2011

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP 40	100060	May 11, 2011	May 10, 2012

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

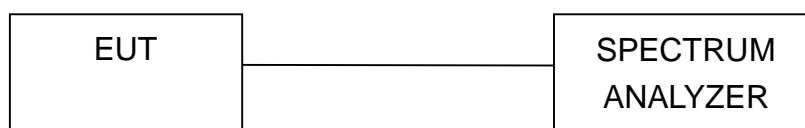
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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



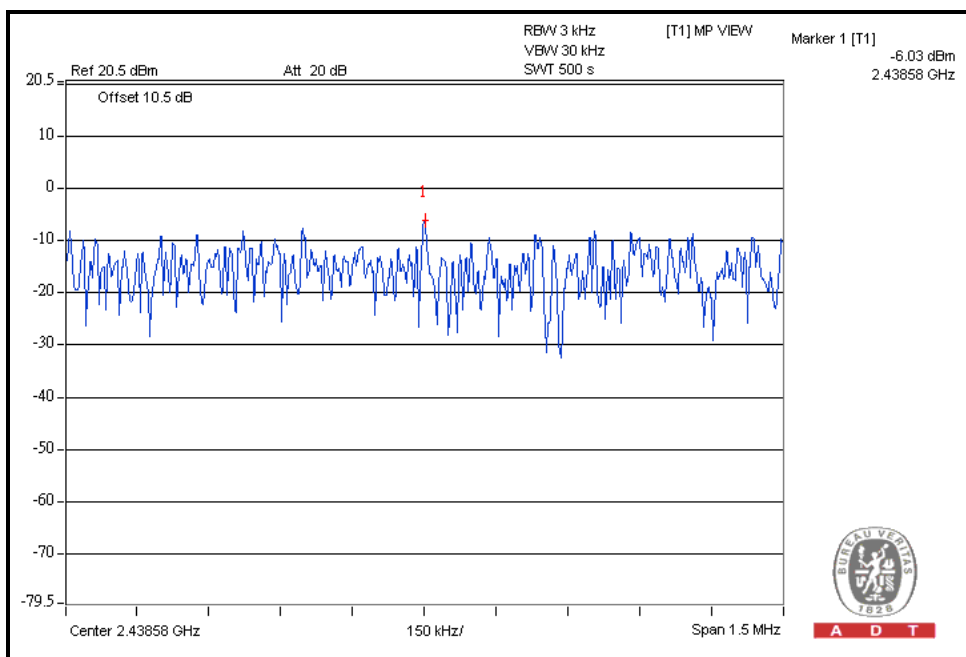
A D T

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	-7.2	8	PASS
6	2437	-6.0	8	PASS
11	2462	-6.4	8	PASS

CH6



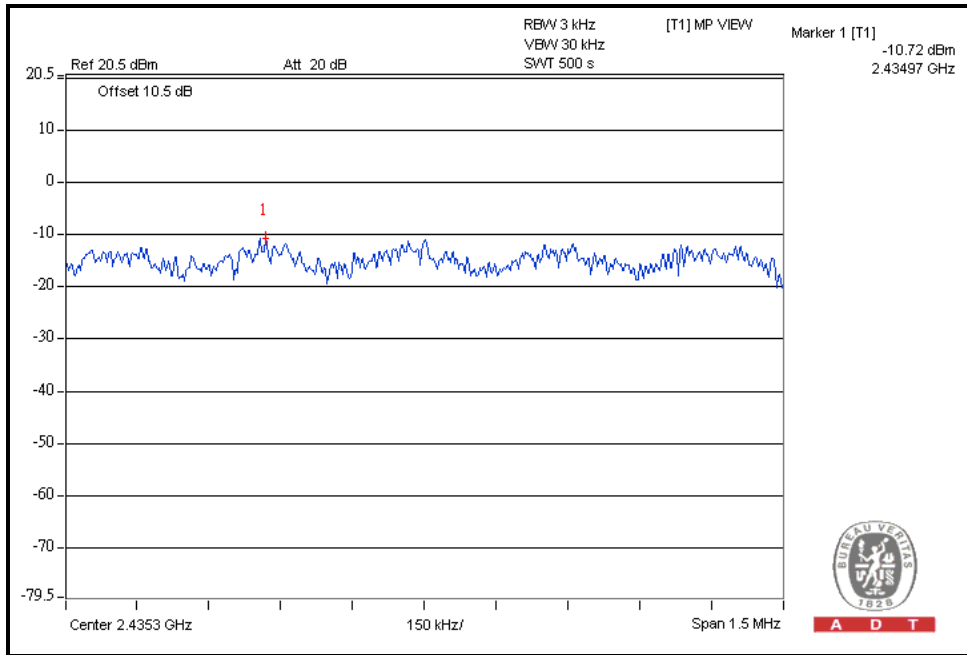


A D T

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-12.2	8	PASS
6	2437	-10.7	8	PASS
11	2462	-11.6	8	PASS

CH6



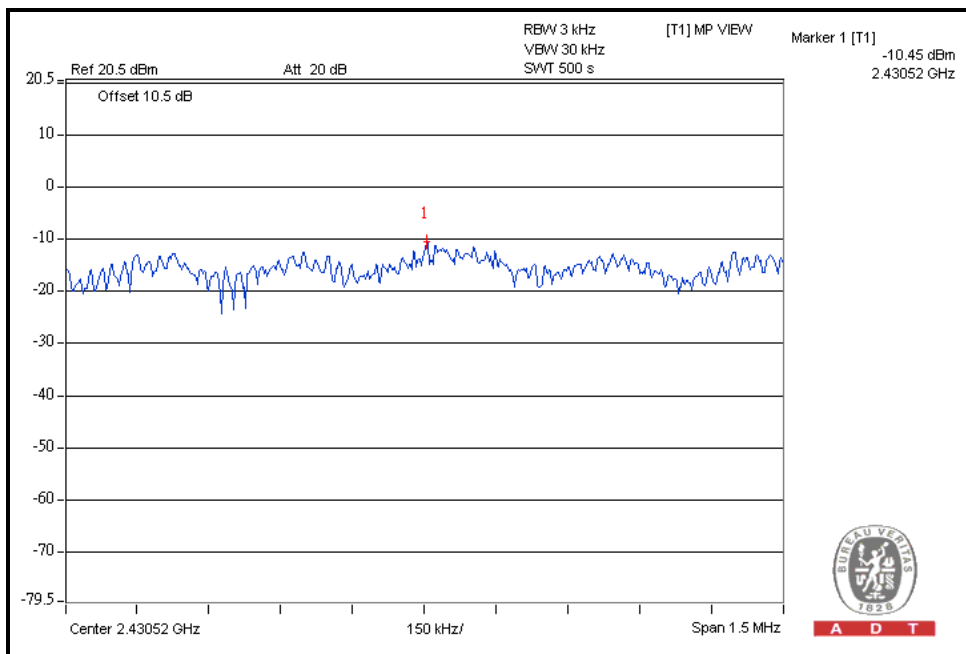


A D T

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-12.0	8	PASS
6	2437	-10.5	8	PASS
11	2462	-12.3	8	PASS

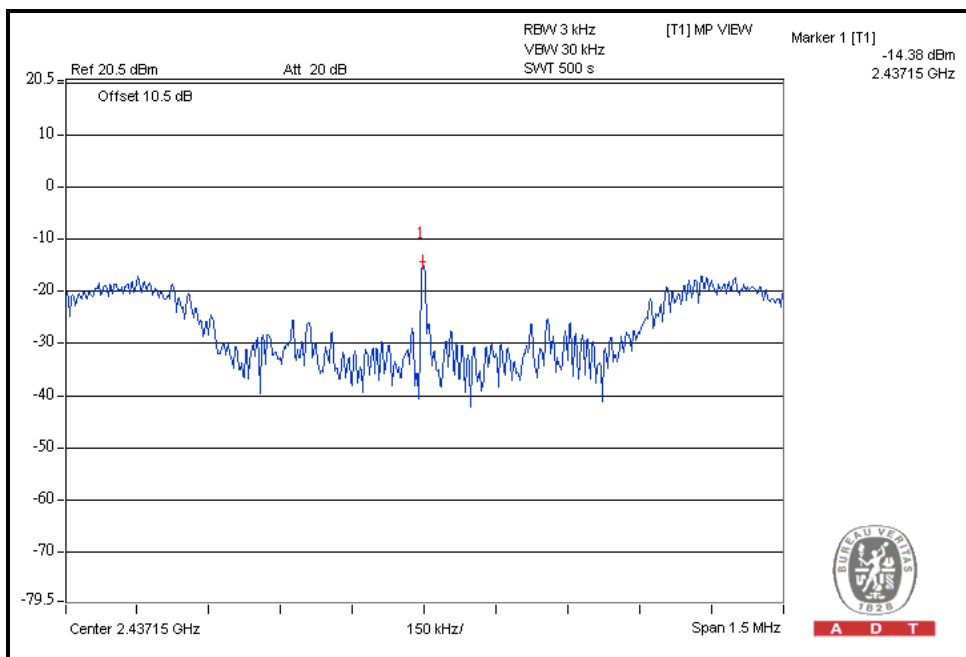
CH6



802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
3	2422	-16.1	8	PASS
6	2437	-14.4	8	PASS
9	2452	-16.0	8	PASS

CH6



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

Test date: Dec. 14, 2011

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP 40	100060	May 11, 2011	May 10, 2012

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 100 MHz or 200 MHz 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

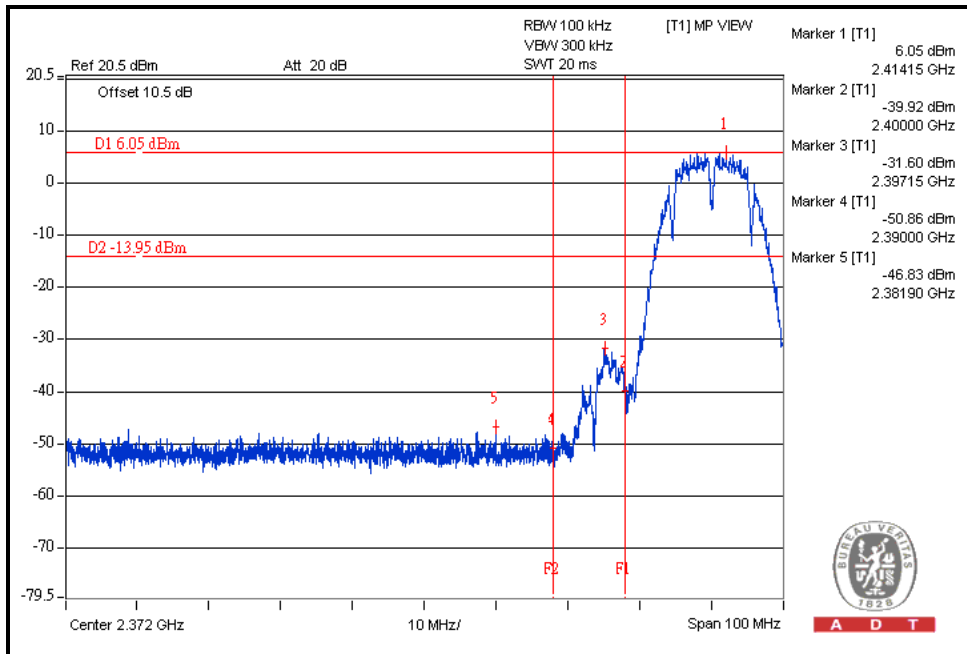
The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).



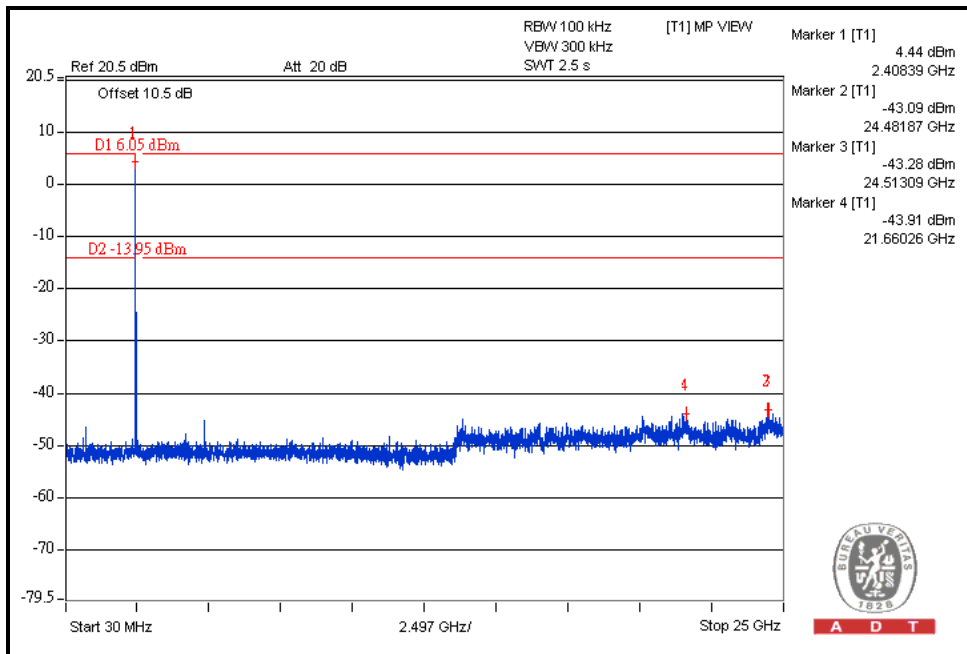
A D T

802.11b DSSS MODULATION:

CH1



A D T

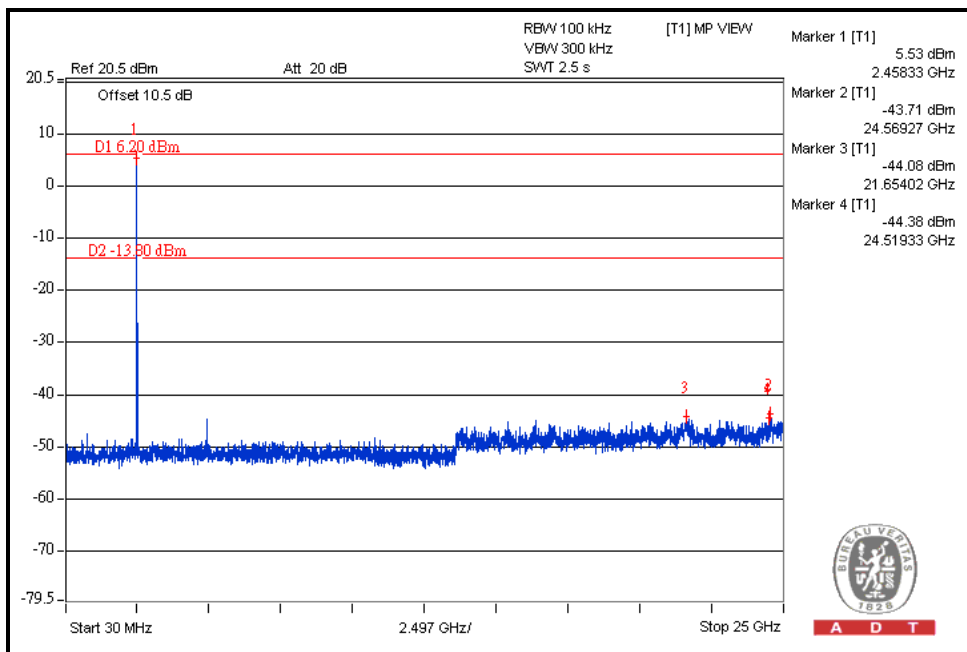
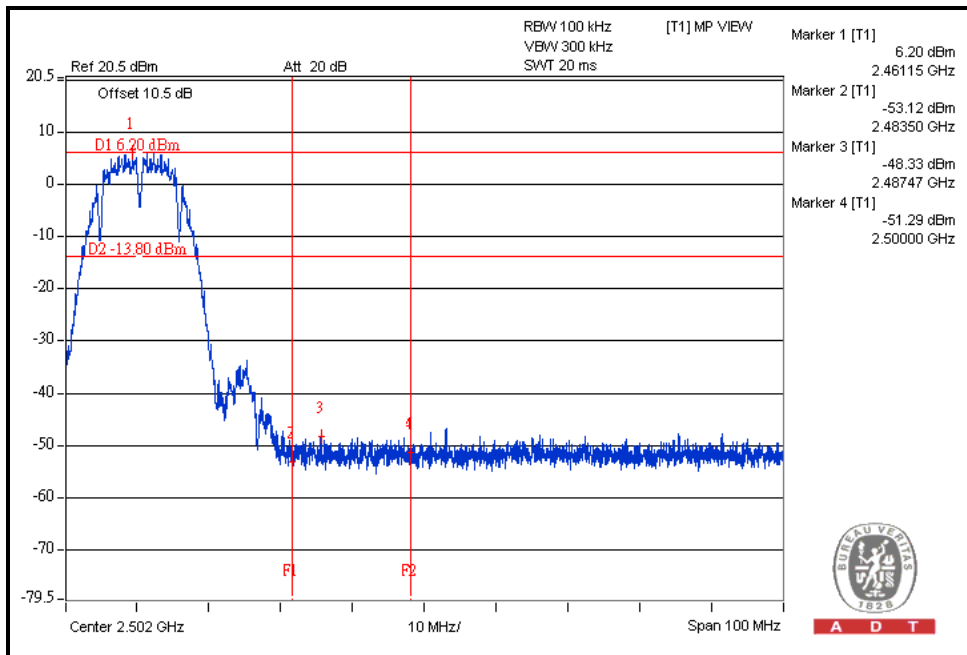


A D T



A D T

CH11

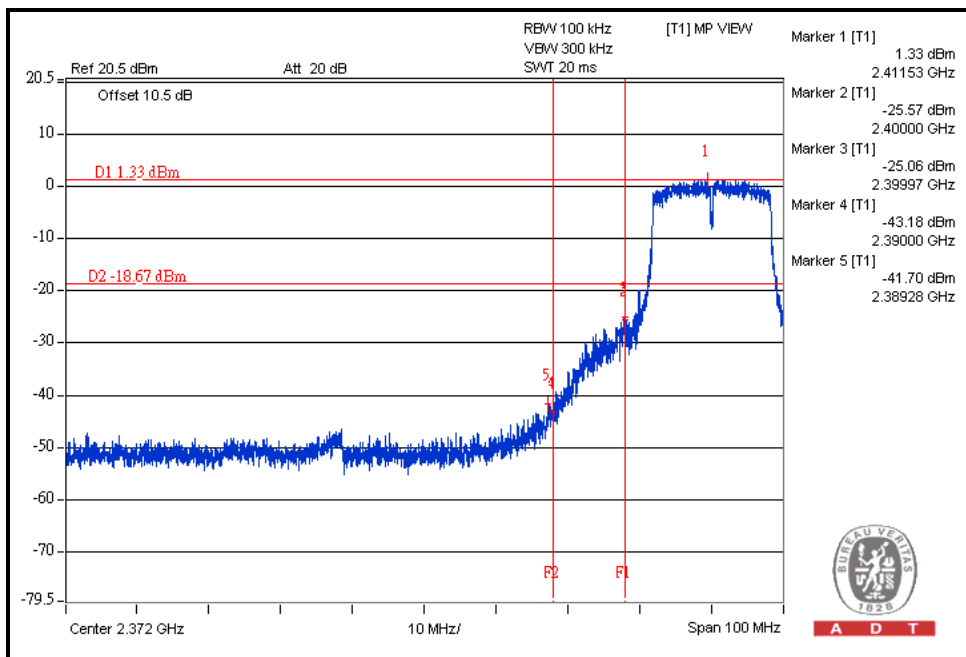




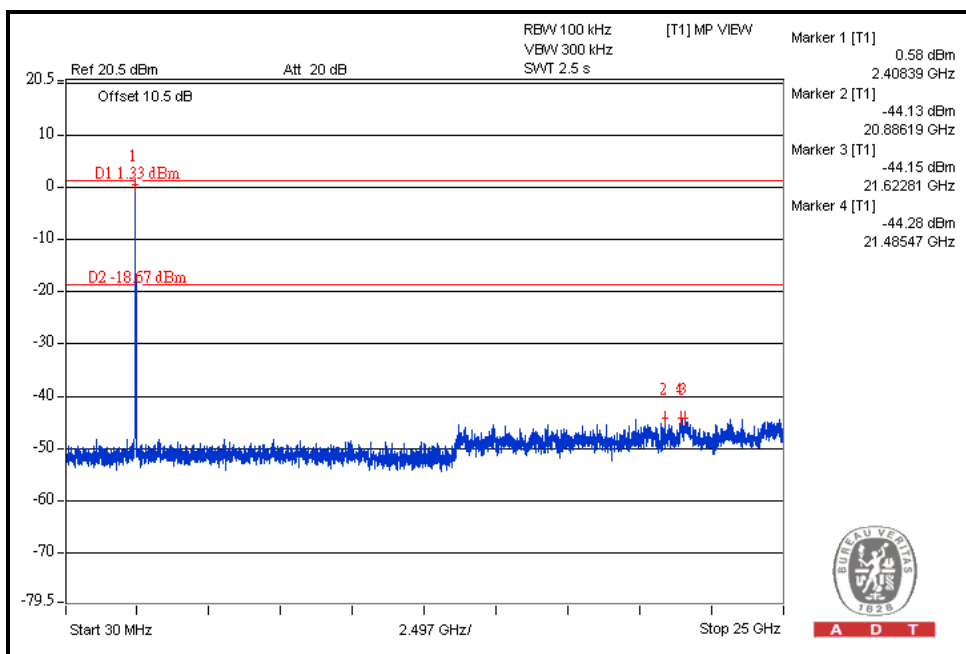
A D T

802.11g OFDM MODULATION:

CH1



A D T

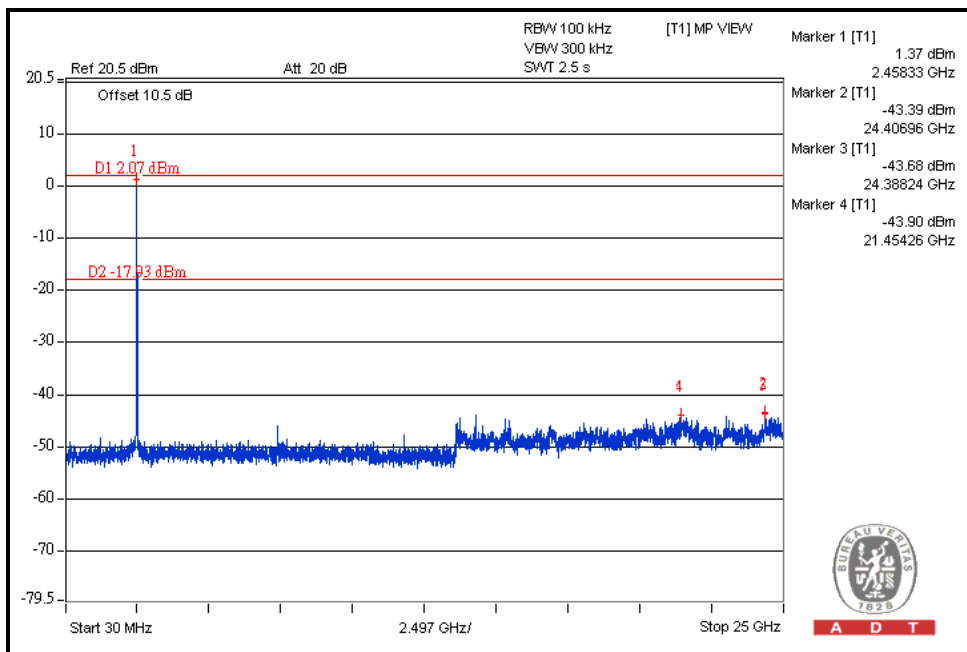
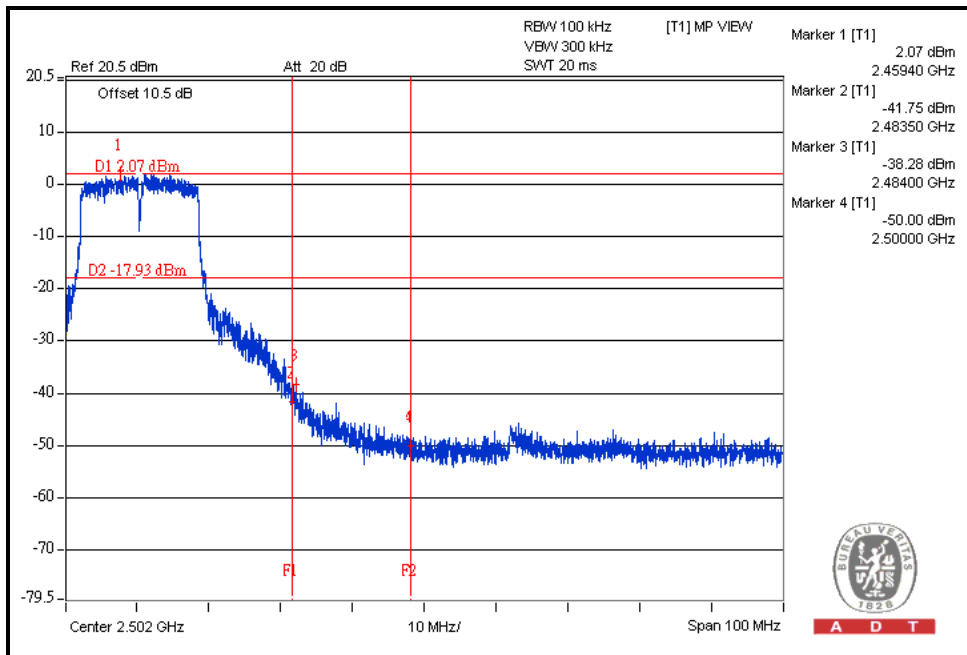


A D T



A D T

CH11

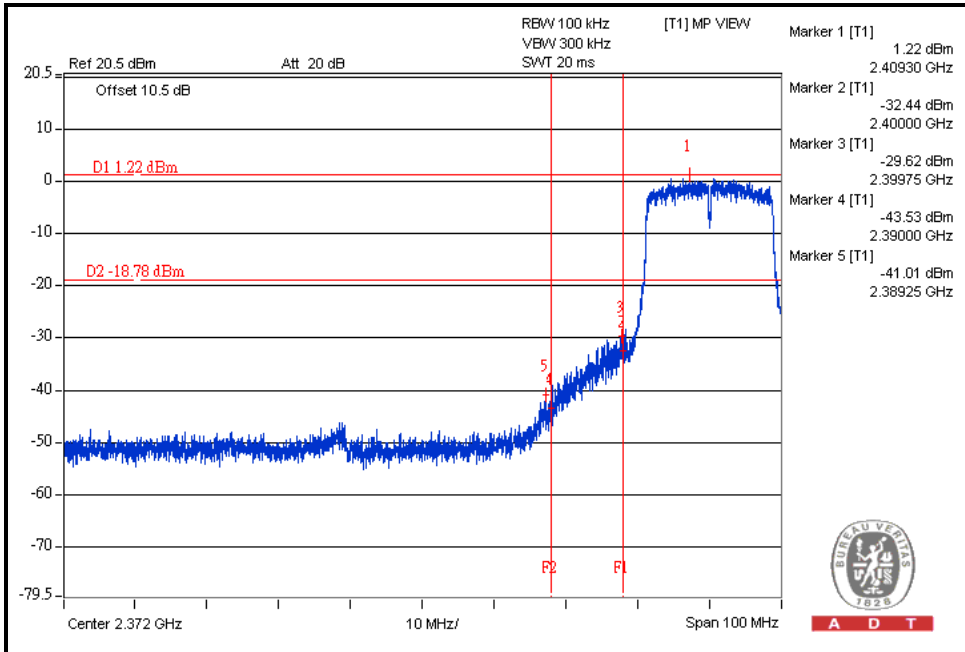




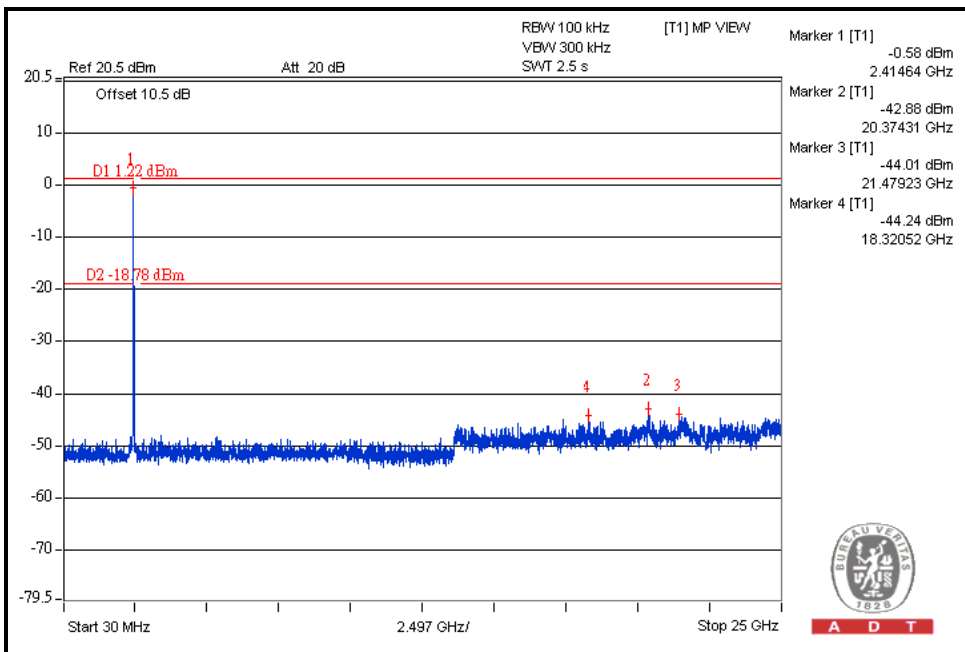
A D T

802.11n (20MHz) OFDM MODULATION:

CH1



A D T

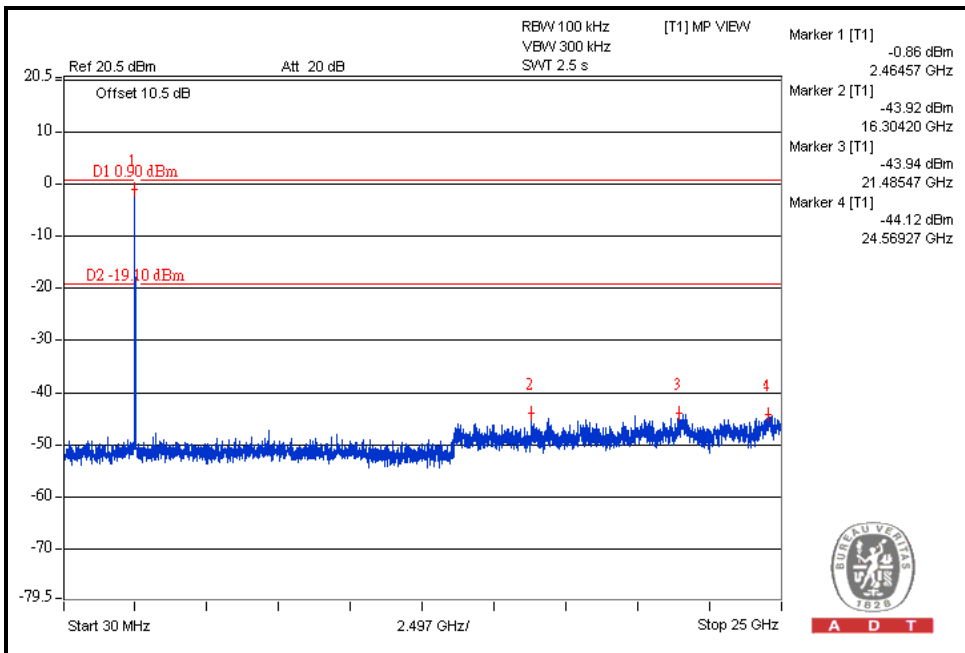
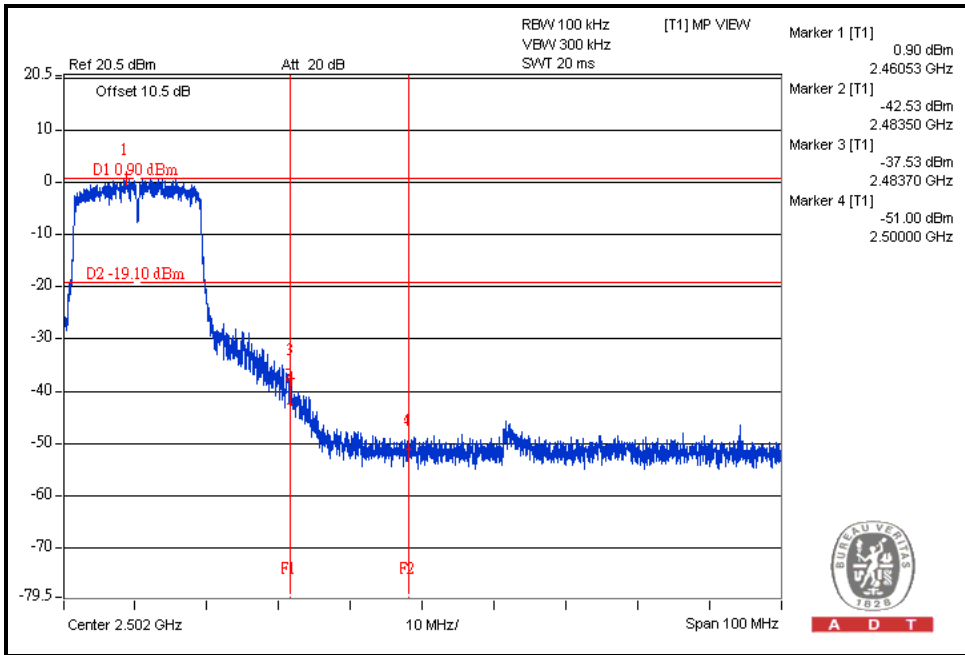


A D T



A D T

CH11

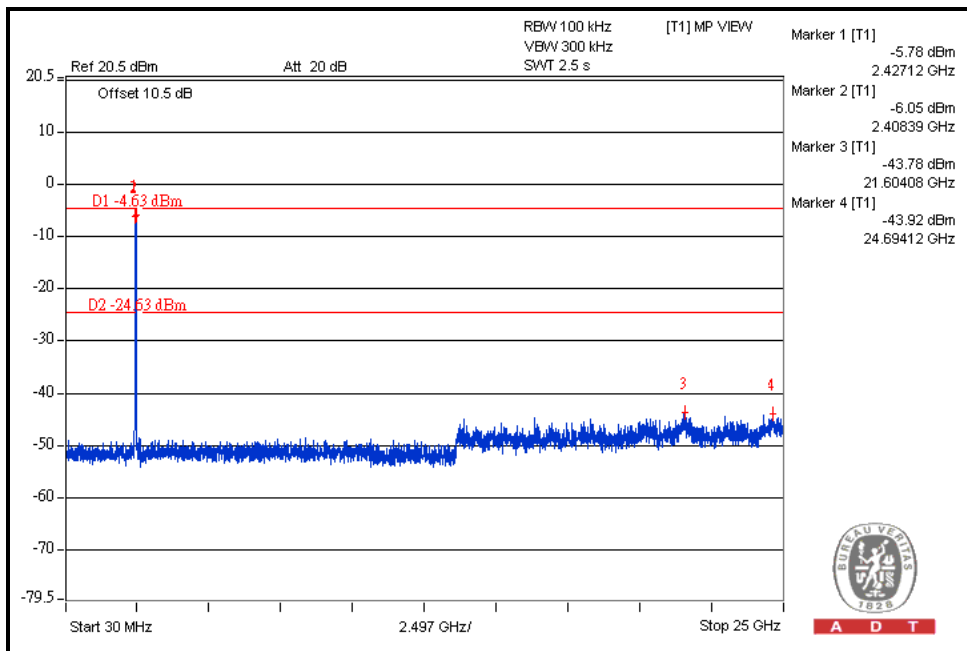
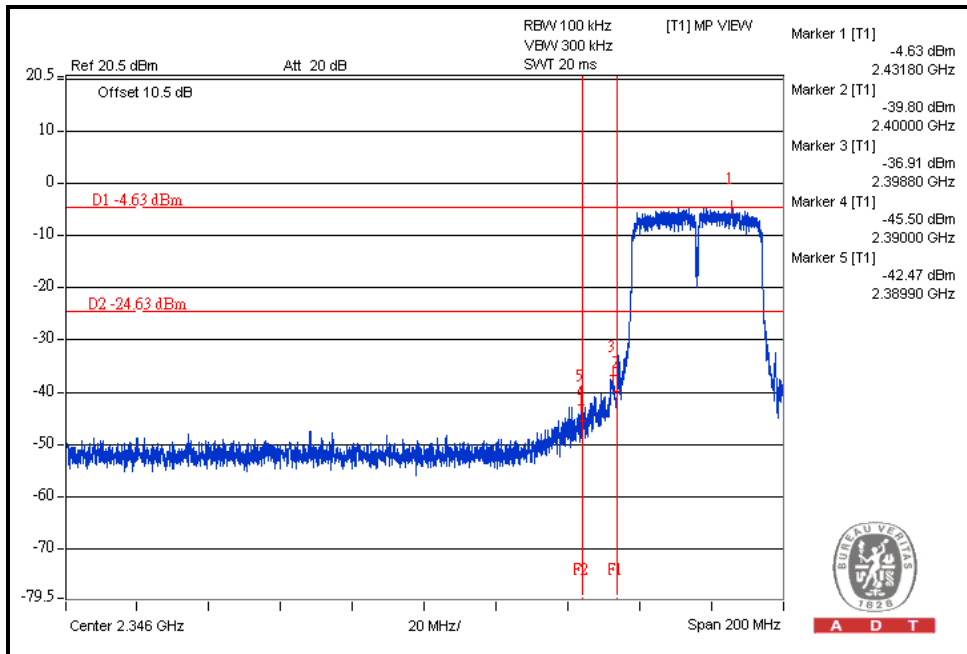




A D T

802.11n (40MHz) OFDM MODULATION:

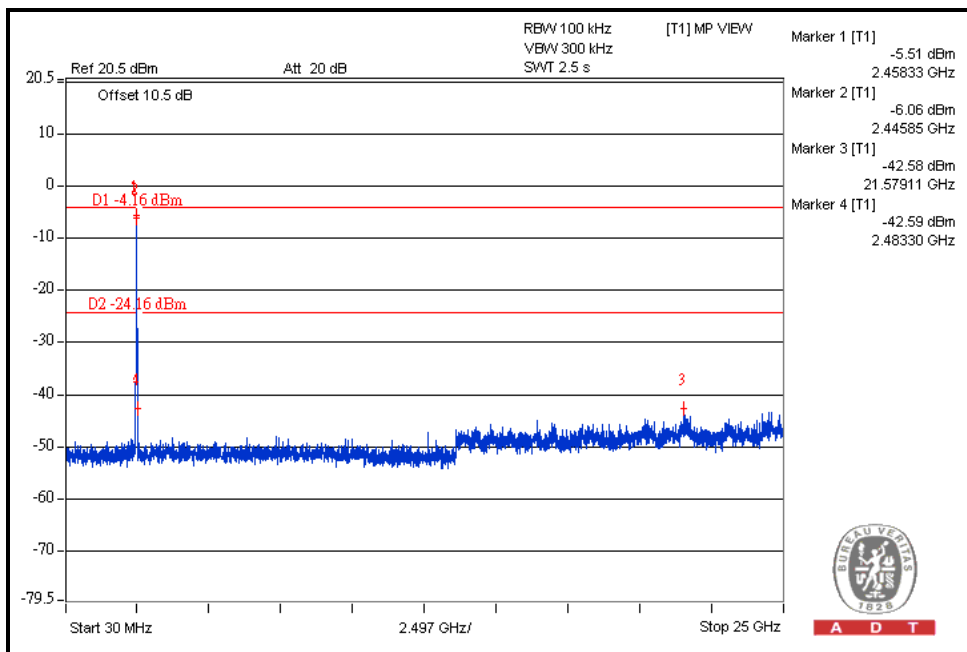
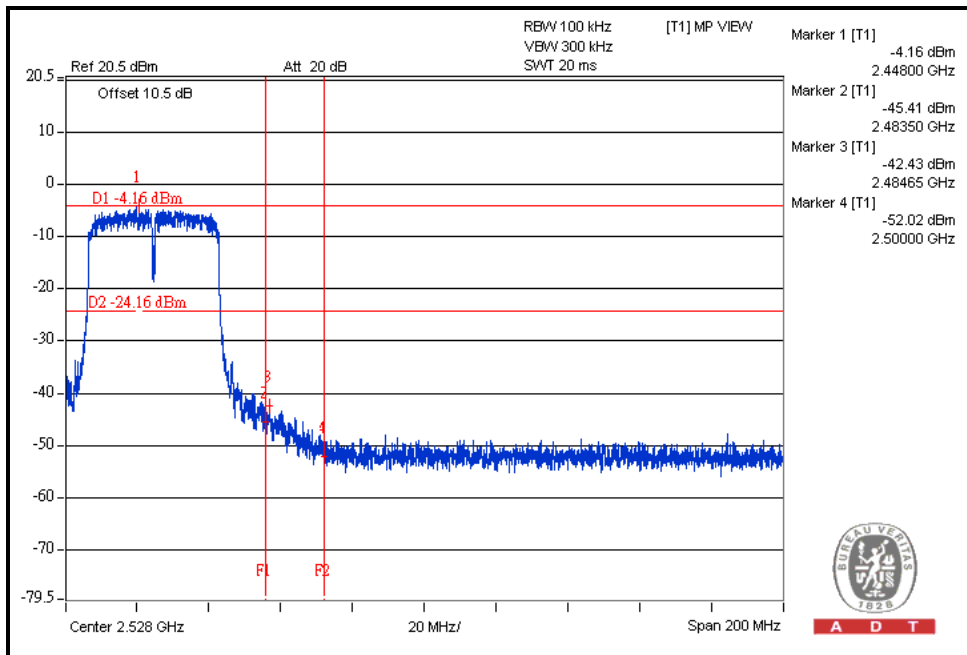
CH3





A D T

CH9





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 and authorization 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@tw.bureauveritas.com

Web Site: www.adt.com.tw

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



A D T

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

No modifications were made to the EUT by the lab during the test.

--- END ---