FCC Radio Test Report

FCC ID: XCNDDW3600

This report concerns (check one) : ■ **Original Grant** □ **Class I Change**

Issued Date	: Nov. 19, 2009
Project No.	: 0911C013
Equipment	: TI 4830 Wireless Cable Modem
Model Name	: DDW3600
Applicant	: Ubee Interactive Corp.
Address	: 6F-9, No.38, Taiyuan St. Jhubei City Hsinchu County 302, Taiwan
Manufacturer	: Ubee Interactive Corp.
Address	: 6F-9, No.38, Taiyuan St. Jhubei City Hsinchu County 302, Taiwan

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Nov. 04, 2009 ~ Nov. 18, 2009

Testing Engineer : (Jeff Yang)

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Authorized Signatory : (Steven Lu)

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ilac-MRA

TAF Testing Laboratory 0659

Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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1. CERTIFICATION

Equipment :	TI 4830 Wireless Cable Modem
Brand Name :	Ubee
Model Name :	DDW3600
Applicant :	Ubee Interactive Corp.
Factory :	Ambit Microsystems (Shanghai) Ltd.
Address :	No., 1925, Nanle Road Songjiang Export Processing Zone, Shanghai China
Date of Test :	Nov. 04, 2009 ~ Nov. 18, 2009
Standards :	FCC Part15, Subpart C(15.247) / ANCI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0911C013) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (c)	Antenna conducted Spurious Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS01 (FCC Test Firm Number: 95335)** at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U，(dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U，(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>TI 4830 Wireless Cable Modem</td></tr>
<tr><td>Brand Name</td><td>Ubee</td></tr>
<tr><td>Model Name</td><td>DDW3600</td></tr>
<tr><td>OEM Brand/Model Name</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a TI 4830 Wireless Cable Modem.
<table>
<tr><td>Operation Frequency:</td><td>2412~2462 MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11b:CCK, DQPSK, DBPSK
802.11g:OFDM
802.11n:OFDM</td></tr>
<tr><td>Bit Rate of Transmitter:</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:
54/48/36/24/18/12/9/6 Mbps
802.11n(20MHz):130+ Mbps
130/117/104/78/52/39/26/13 Mbps
802.11n(40MHz):300+ Mbps
300/270/243/216/162/108/81/54/27 Mbps</td></tr>
<tr><td>Number Of Channel:</td><td>11CH .Please see Note 2.</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Antenna Gain(Peak):</td><td>Please see Note 3.</td></tr>
<tr><td>EIRP Power(Max):</td><td>802.11b:19.28 dBm
802.11g:22.27 dBm
802.11N(20MHz):22.20 dBm
802.11N(40MHz):19.51 dBm</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Source</td><td>DC Voltage supplied from AC/DC adapter
DDW3600 used adapter:
Brand name: DVE Model name: DSA-18W-12 US1 120180</td></tr>
<tr><td>Power Rating</td><td>I/P 100-240VAC~ 50/60Hz, 0.8A O/P +12V 1.5A (DDW3600)</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
<tr><td>Products Covered</td><td>N/A</td></tr>
</table>

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)
   CH 03 – CH 09 for 802.11n(40MHz)

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	**2412**	05	2432	**09**	**2452**
02	2417	**06**	**2437**	10	2457
03	**2422**	07	2442	**11**	**2462**
04	2427	08	2447		

3. Table for Filed Antenna

Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
0	Foxconn	FX01X53-0G-EF	Dipole(70mm)	U.FL	2.0
1	Foxconn	FX01X54-0G-EF	Dipole(280mm)	U.FL	2.0

The chip Atheros AR9102 Function is (2T2R)

4 The EUT incorporates MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R)

Modulated type	TX Function
802.11b	2TX
802.11g	2TX
Draft 802.11n(20MHz)	2TX
Draft 802.11n(40MHz)	2TX

3.2 DESCRIPTION OF TEST MODES

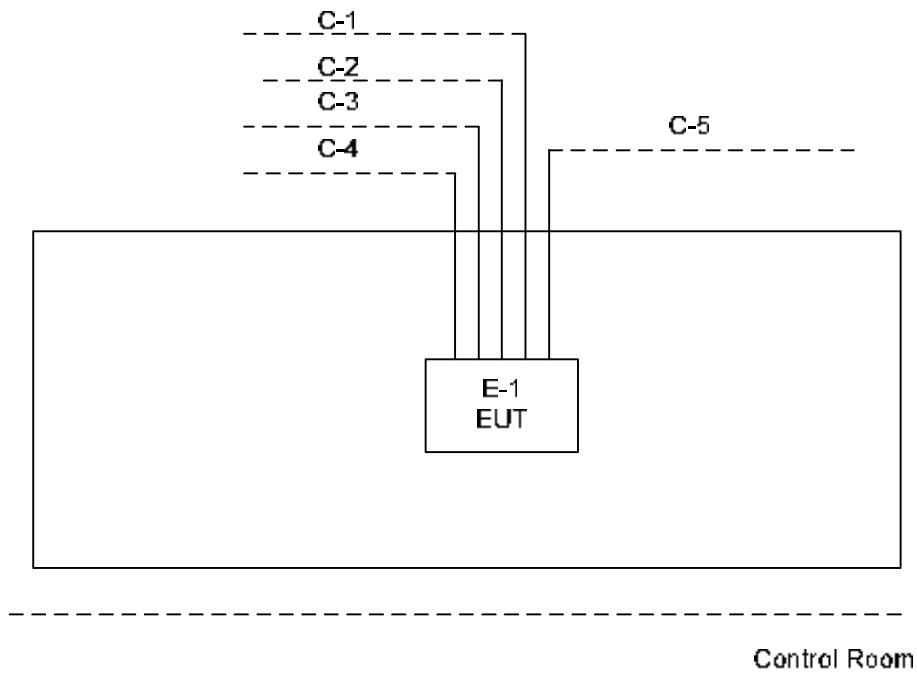
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11 (Port. 0, Port. 1 or Port. 0 + Port. 1)
Mode 2	802.11g/CH01, CH06, CH11 (Port. 0, Port. 1 or Port. 0 + Port. 1)
Mode 3	802.11n/20M/CH01, CH06, CH11 (Port. 0, Port. 1 or Port. 0 + Port. 1)
Mode 4	802.11n/40M/CH03, CH6, CH9 (Port. 0, Port. 1 or Port. 0 + Port. 1)
Mode 5	Normal Link

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

For Radiated Test	
Final Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11 (Port. 0 + Port. 1)
Mode 2	802.11g/CH01, CH06, CH11 (Port. 0 + Port. 1)
Mode 3	802.11n/20M/CH01, CH06, CH11 (Port. 0 + Port. 1)
Mode 4	802.11n/40M/CH03, CH6, CH9 (Port. 0 + Port. 1)

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 RJ-45 Cable
C-2 RJ-45 Cable
C-3 RJ-45 Cable
C-4 RJ-45 Cable
C-5 Coaxial Cable

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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	TI 4830 Wireless Cable Modem	Ubee	DDW3600	XCNDDW3600	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	7M	
C-2	NO	NO	7M	
C-3	NO	NO	7M	
C-4	NO	NO	7M	
C-5	YES	NO	7M	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software Version	Test Program: ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
802.11b DSSS Ant.(0+1)	17	17	17
802.11g OFDM Ant.(0+1)	13	13	13
11N-20MHz-Ant.(0+1)	12	12	12

Test software Version	Test Program: ART		
Frequency	2422 MHz	2437 MHz	2452 MHz
11N-40MHz-Ant. (0+1)	9	9	9

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	SR03_C_01 &02	N/A	Aug. 18, 2010
2	LISN	EMCO	3816/2	00042991	Jan. 21, 2010
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Dec. 28, 2009
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 17, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

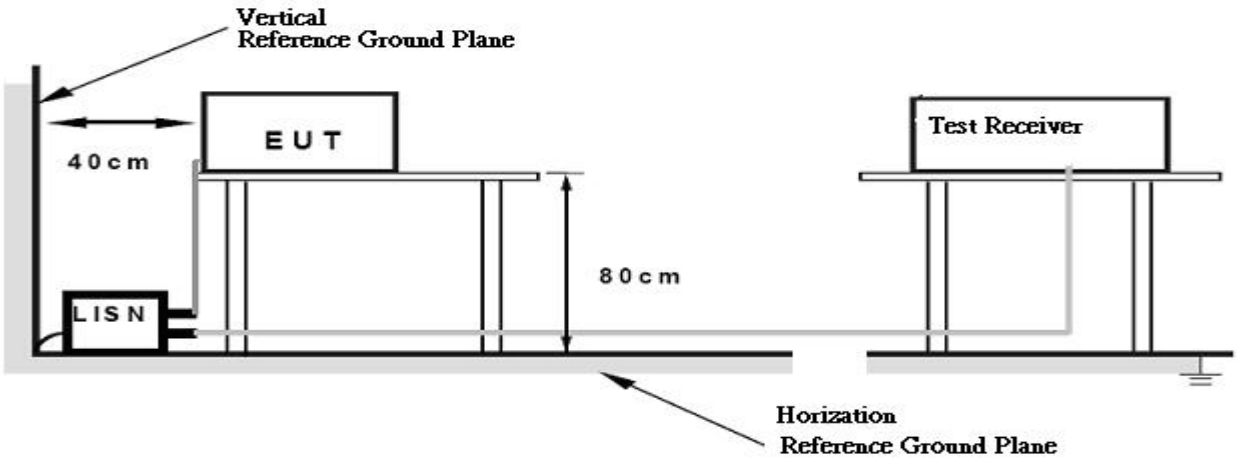
4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.7 TEST RESULTS

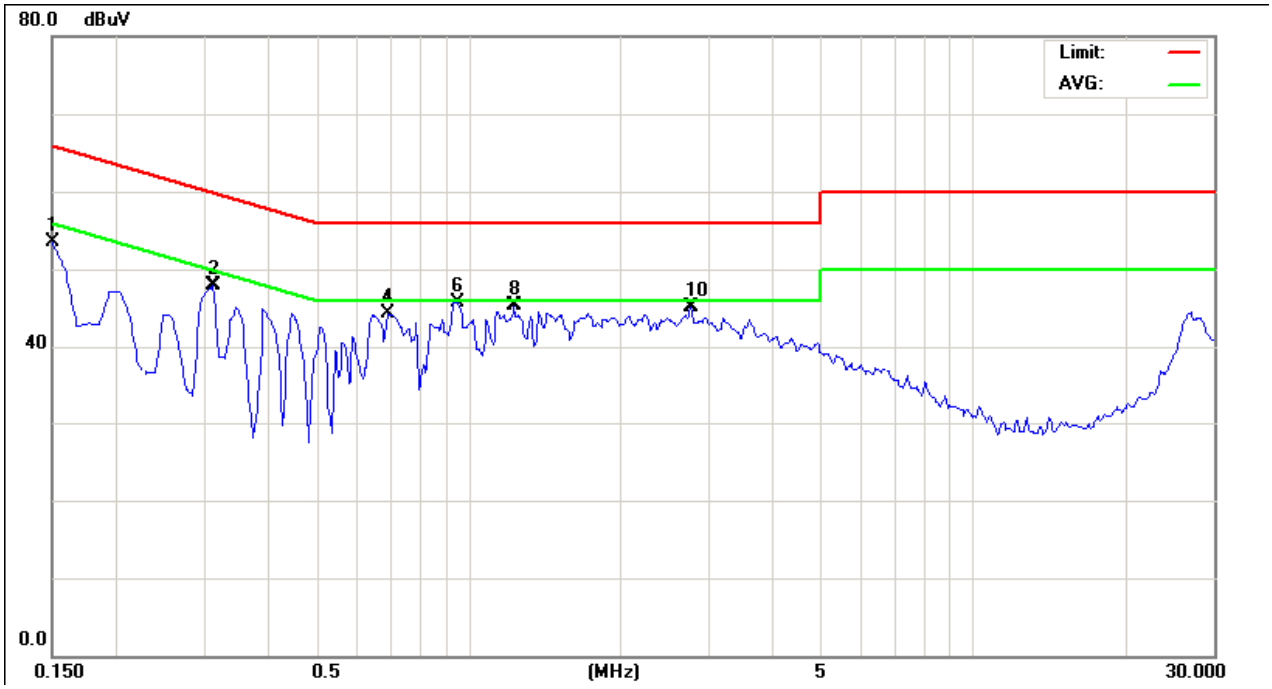
EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Normal Link		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	53.49	*	66.00	56.00	-12.51	(QP)
0.31	Line	47.93	41.63	59.92	49.92	-8.29	(AV)
0.69	Line	44.38	32.99	56.00	46.00	-11.62	(QP)
0.95	Line	45.79	32.89	56.00	46.00	-10.21	(QP)
1.23	Line	45.23	32.21	56.00	46.00	-10.77	(QP)
2.77	Line	45.09	29.09	56.00	46.00	-10.91	(QP)

Remark

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(2) Measuring frequency range from 150KHz to 30MHz。



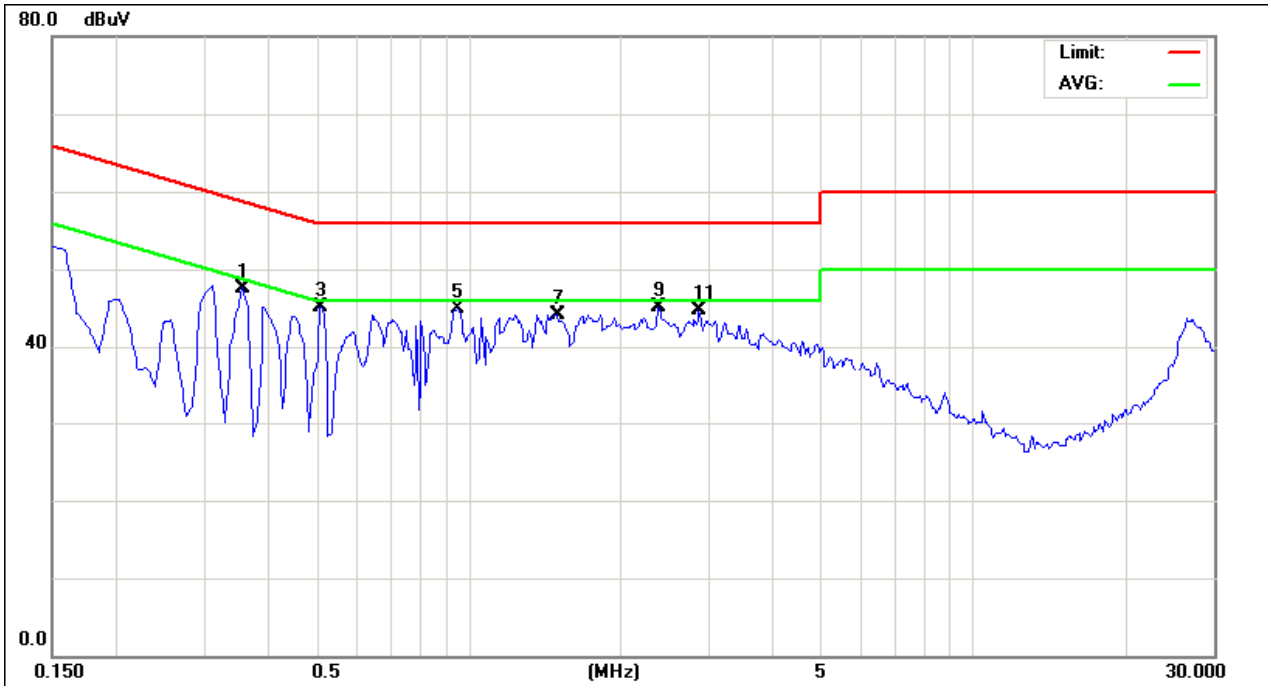
EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Normal Link		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.36	Neutral	47.60	35.24	58.80	48.80	-11.20	(QP)
0.51	Neutral	45.04	26.35	56.00	46.00	-10.96	(QP)
0.95	Neutral	44.90	31.68	56.00	46.00	-11.10	(QP)
1.50	Neutral	44.19	30.52	56.00	46.00	-11.81	(QP)
2.39	Neutral	45.05	25.97	56.00	46.00	-10.95	(QP)
2.88	Neutral	44.68	26.98	56.00	46.00	-11.32	(QP)

Remark

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(2) Measuring frequency range from 150KHz to 30MHz。



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 23, 2010
2	Test Cable	N/A	LMR-400	N/A	Jan. 05, 2010
3	Test Cable	N/A	3M_OS01	N/A	Oct. 07, 2010
4	Test Cable	N/A	OS01-1/-2	N/A	Oct. 07, 2010
5	RF Switch	Anritsu	MP59B	M65982	Aug. 24, 2010
6	Pre-Amplifier	Anritsu	MH648A	M09961	Dec. 29, 2009
7	Positioning Controller (OS01)	MF	MF7802	N/A	N/A
8	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
9	Spectrum Analyzer	ADVAN TEST	R3261C	81720298	Oct. 01, 2010
10	Spectrum Analyzer	HP	8591EM	3536A00687	Mar. 13, 2010
11	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Nov. 24.2009

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

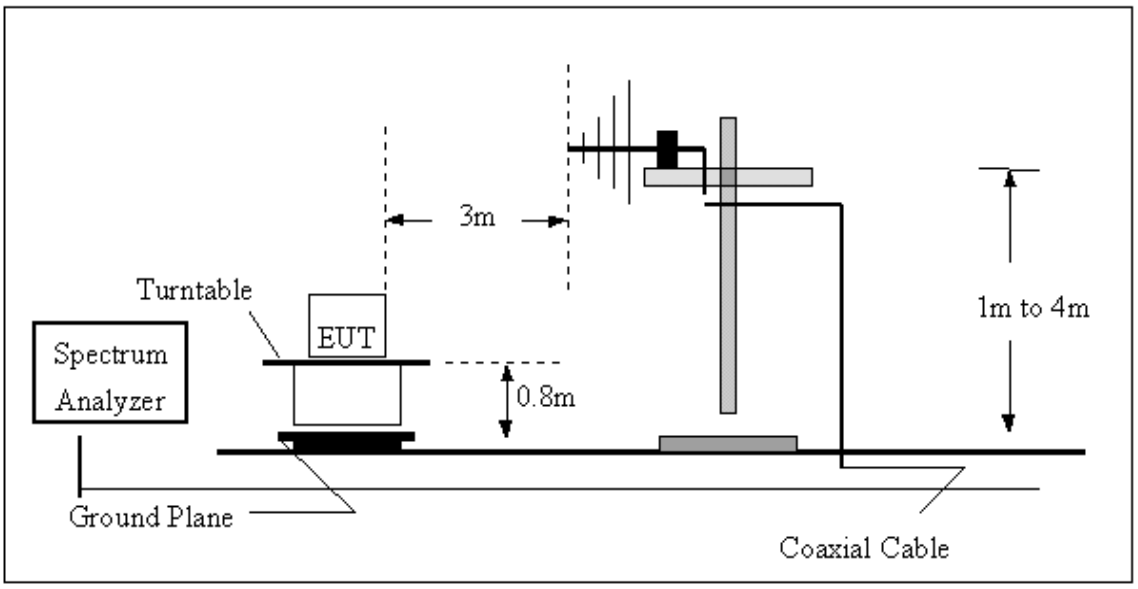
a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

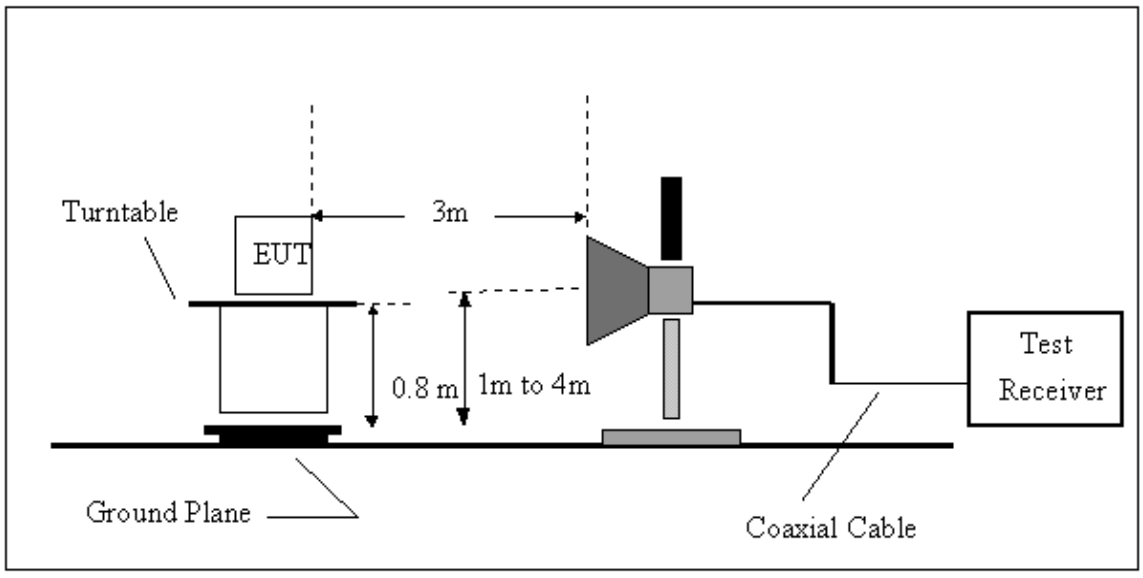
No deviation

4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/CH03		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
65.32	V	40.32	-6.84	33.48	40.00	- 6.52	
242.69	V	38.77	-5.66	33.11	46.00	- 12.89	
324.65	V	38.21	-3.13	35.08	46.00	- 10.92	
425.66	V	36.89	-0.43	36.46	46.00	- 9.54	
505.69	V	37.54	1.01	38.55	46.00	- 7.45	
584.97	V	34.62	2.96	37.58	46.00	- 8.42	

Remark：

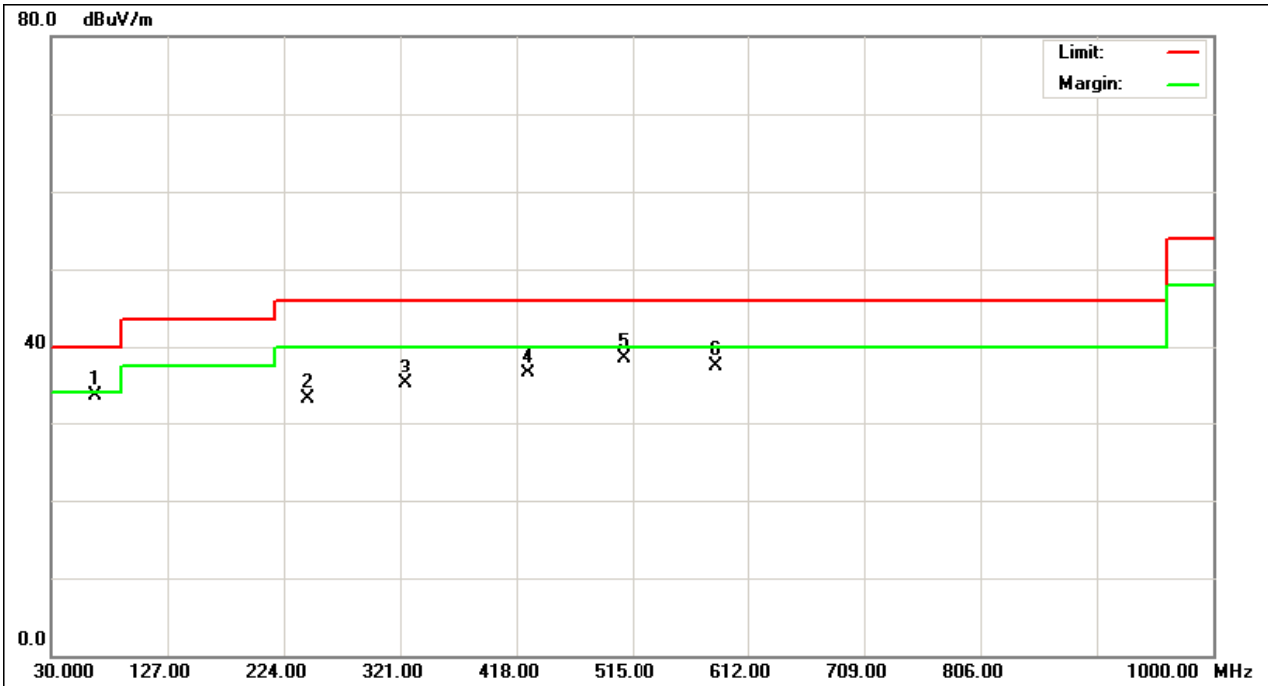
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.

(4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(5) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/CH03		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
65.98	H	38.65	-6.93	31.72	40.00	- 8.28	
125.87	H	37.66	-5.50	32.16	43.50	- 11.34	
196.65	H	39.54	-7.53	32.01	43.50	- 11.49	
258.44	H	40.21	-5.41	34.80	46.00	- 11.20	
330.65	H	39.93	-2.99	36.94	46.00	- 9.06	
368.82	H	39.33	-2.04	37.29	46.00	- 8.71	

Remark：

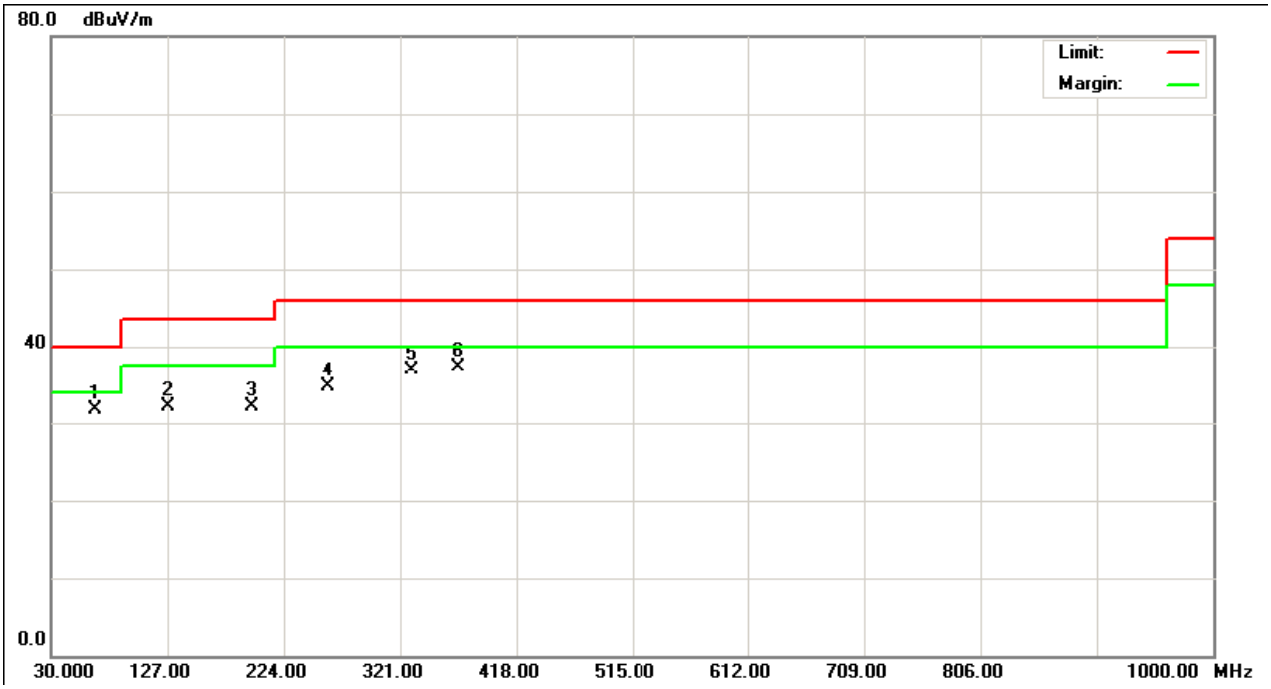
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.

(4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(5) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



4.2.8 TEST RESULTS - ABOVE 1000MHZ

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.16	14.98	32.63	56.79	47.61	74.00	54.00	X/E
2415.70	V	80.96	77.23	32.77	113.73	109.99			X/F
4704.04	V	42.79	37.73	4.09	46.88	41.82	74.00	54.00	X/H
4825.21	V	37.26	33.26	4.51	41.77	37.77	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

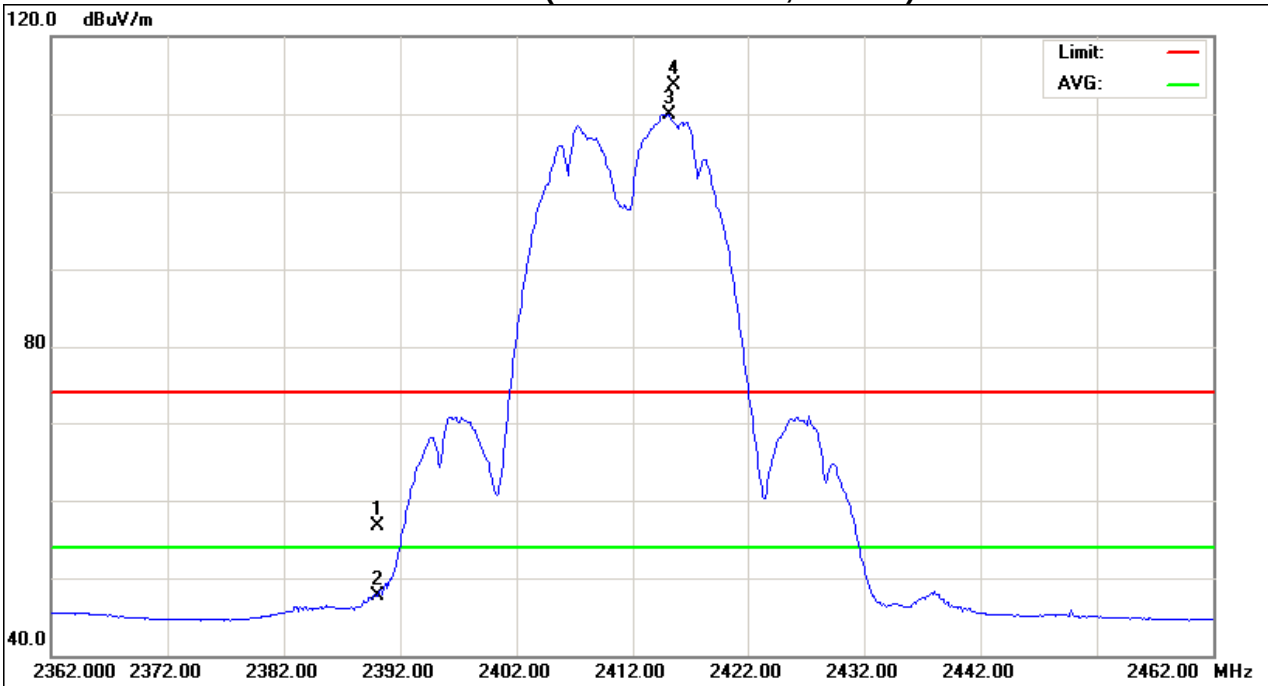
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

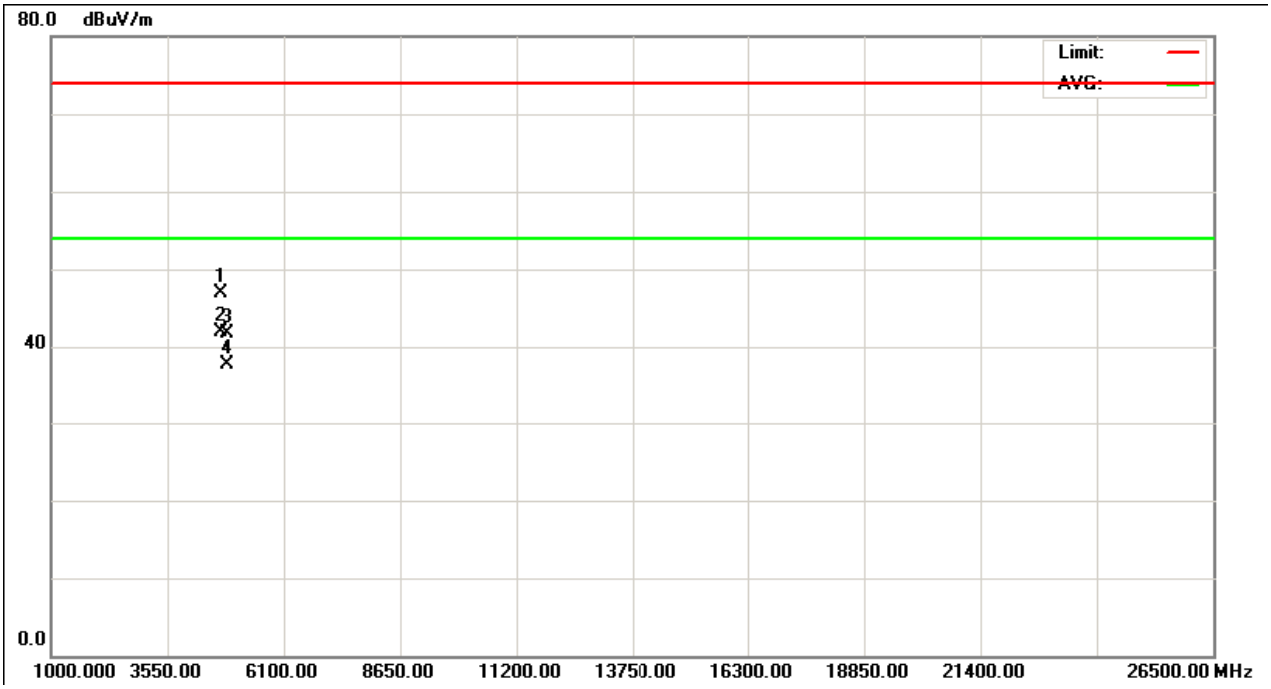
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH01(Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	22.23	12.52	32.63	54.86	45.15	74.00	54.00	X/E
2411.00	H	73.77	70.09	32.74	106.51	102.83			X/F
4704.04	H	41.27	36.29	4.09	45.36	40.38	74.00	54.00	X/H
4823.89	H	35.66	32.45	4.50	40.16	36.95	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

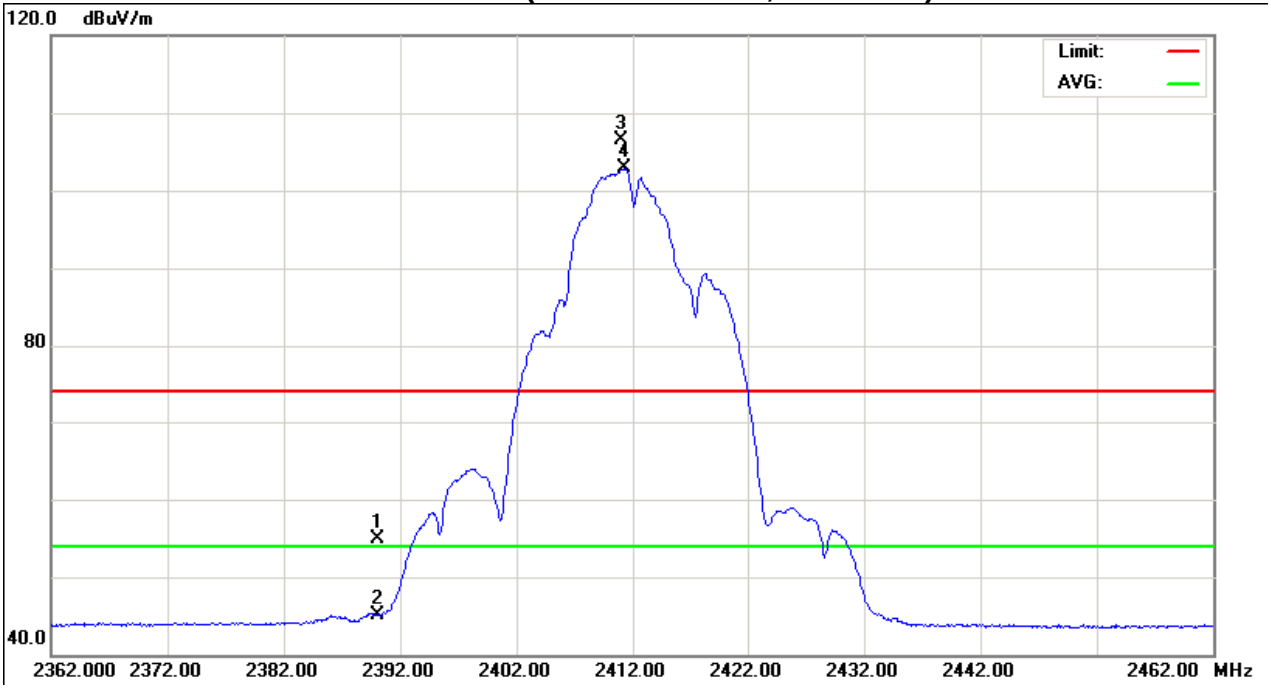
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

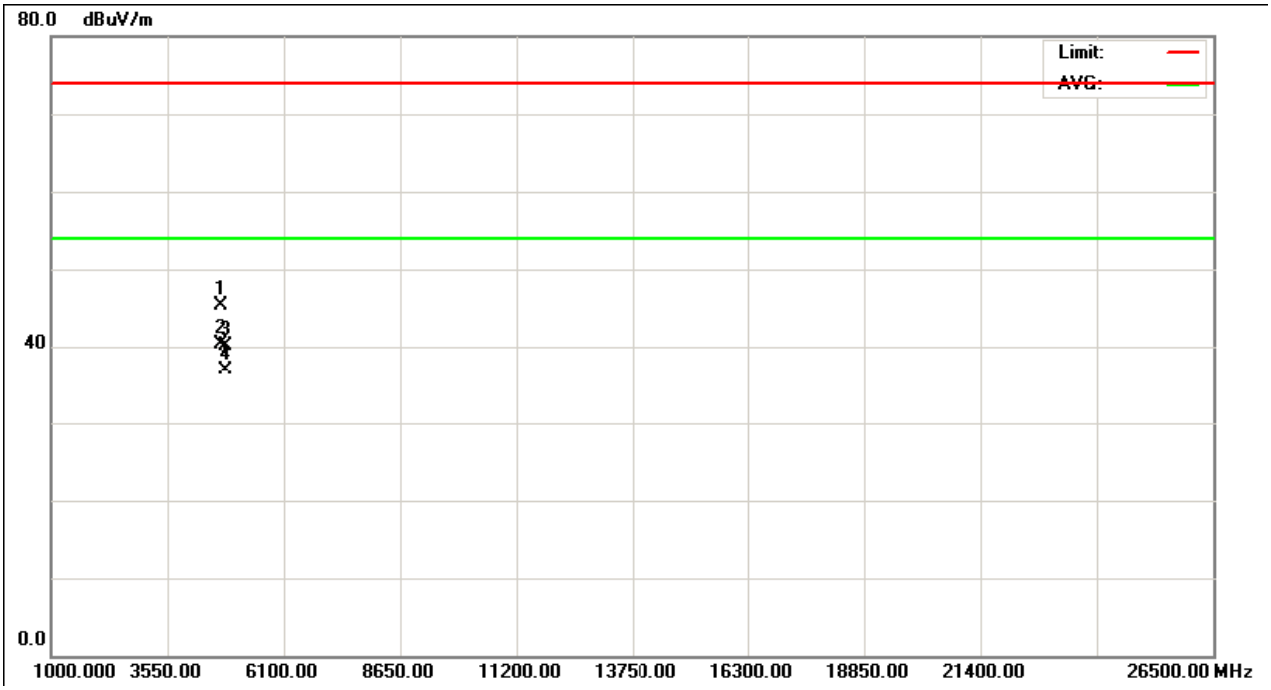
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH01(Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.70	V	79.70	76.20	32.89	112.59	109.09			X/F
4703.95	V	42.92	35.69	4.09	47.01	39.78	74.00	54.00	X/H
4874.67	V	35.74	31.55	4.67	40.41	36.22	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

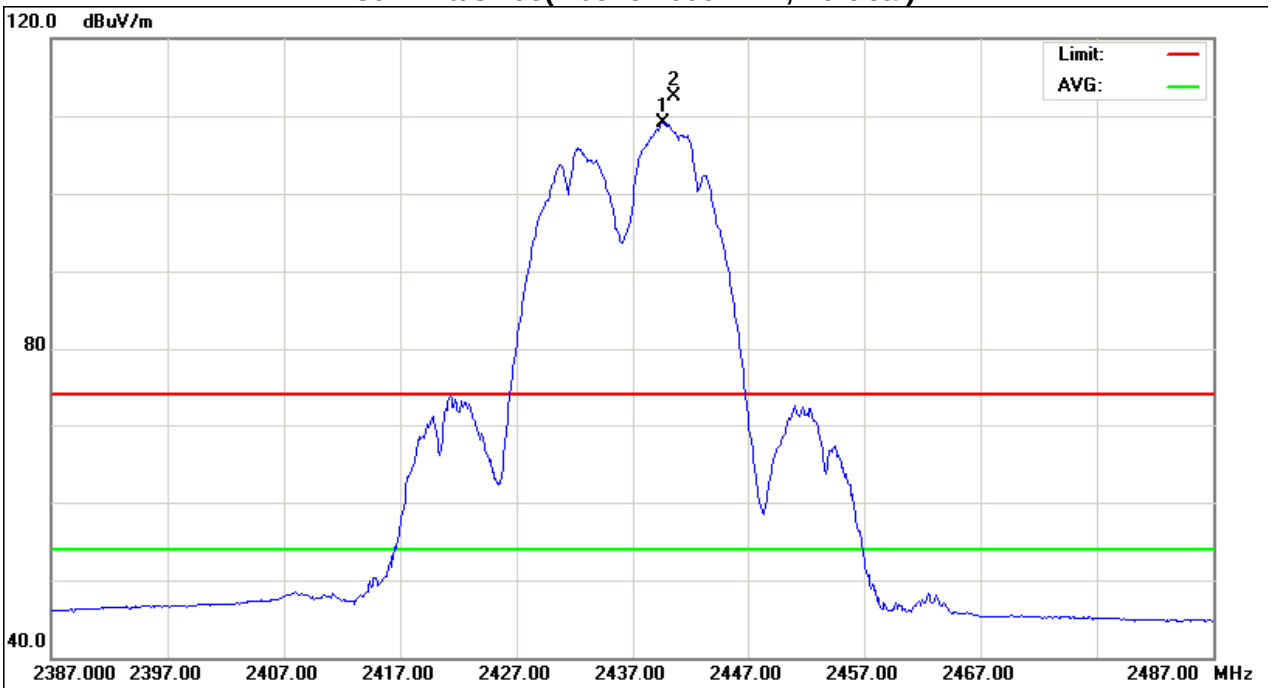
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

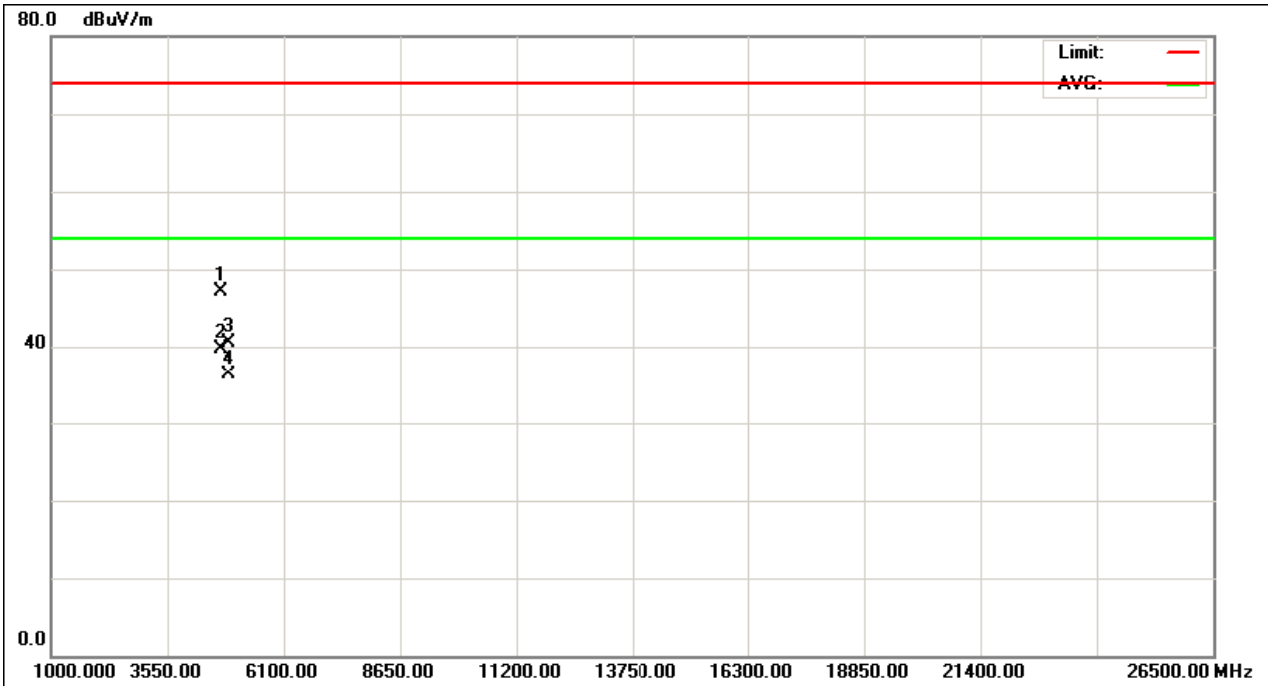
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH06(Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.60	H	72.04	68.36	32.89	104.93	101.25			X/F
4704.50	H	40.90	35.58	4.10	45.00	39.68	74.00	54.00	X/H
4874.87	H	35.98	32.51	4.67	40.65	37.18	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

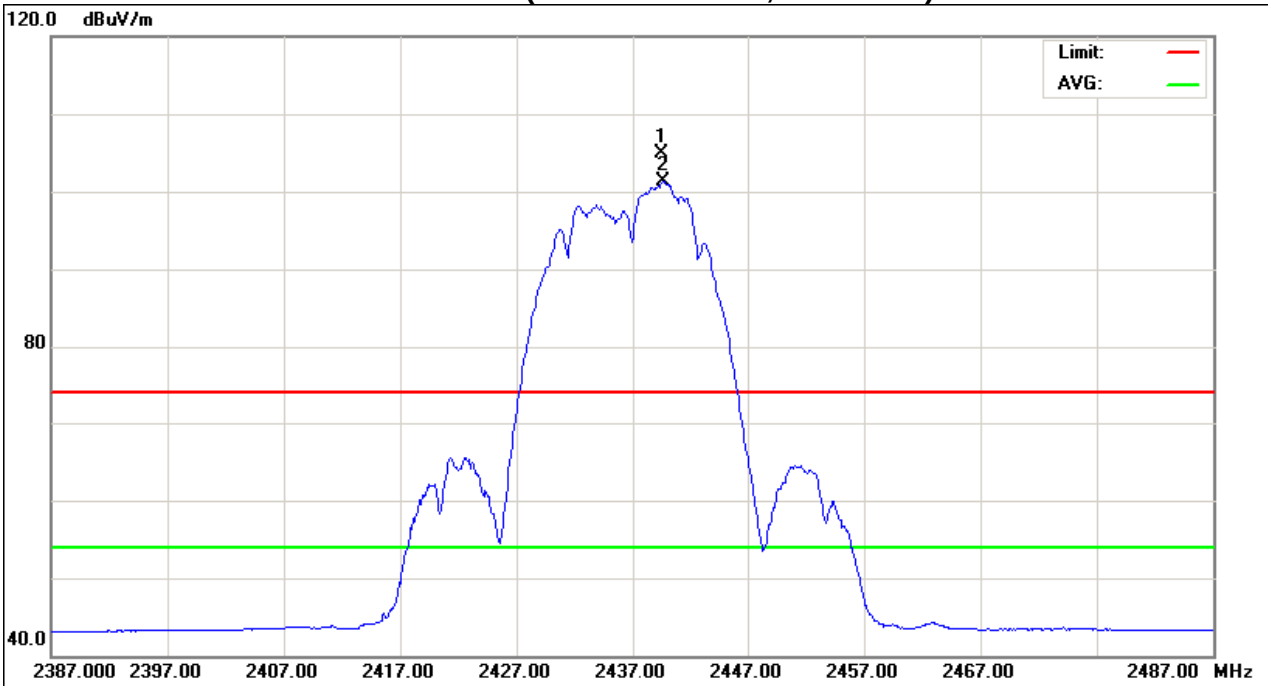
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

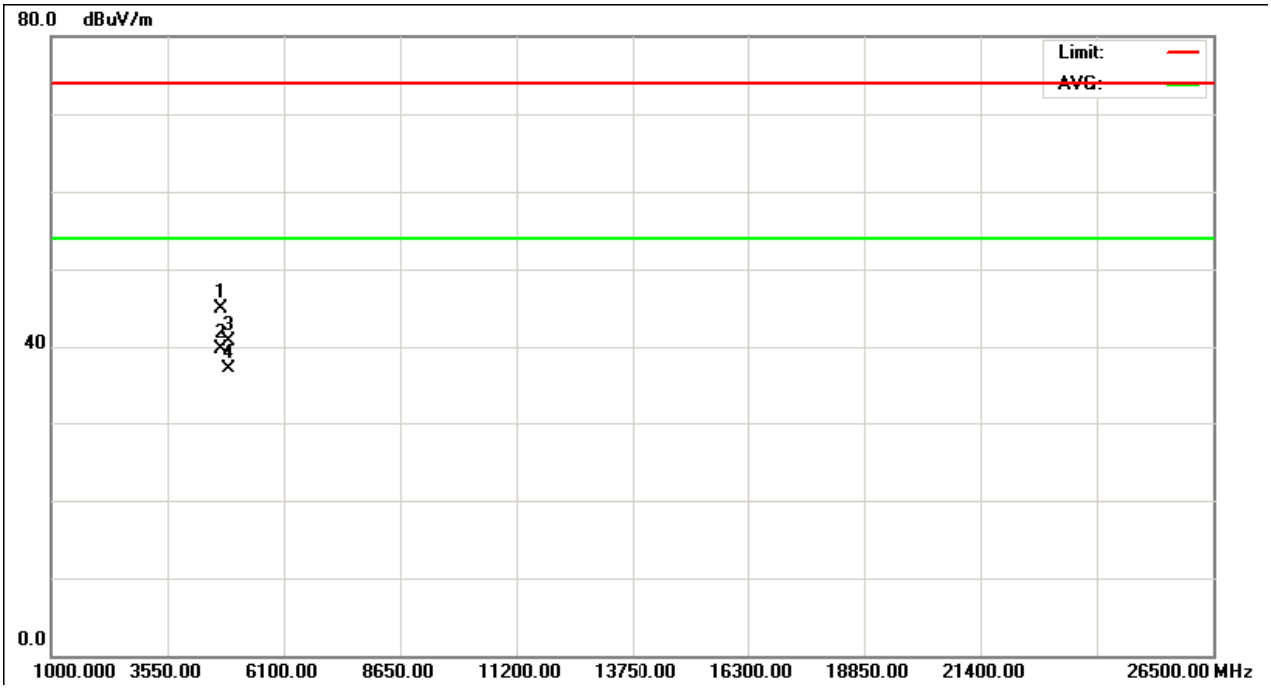
(7) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH06(Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH11 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2461.00	V	80.19	76.39	33.00	113.19	109.39			X/F
2483.50	V	26.45	17.55	33.11	59.56	50.66	74.00	54.00	X/E
4703.85	V	42.38	35.92	4.09	46.47	40.01	74.00	54.00	X/H
4924.55	V	36.03	31.65	4.84	40.87	36.49	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

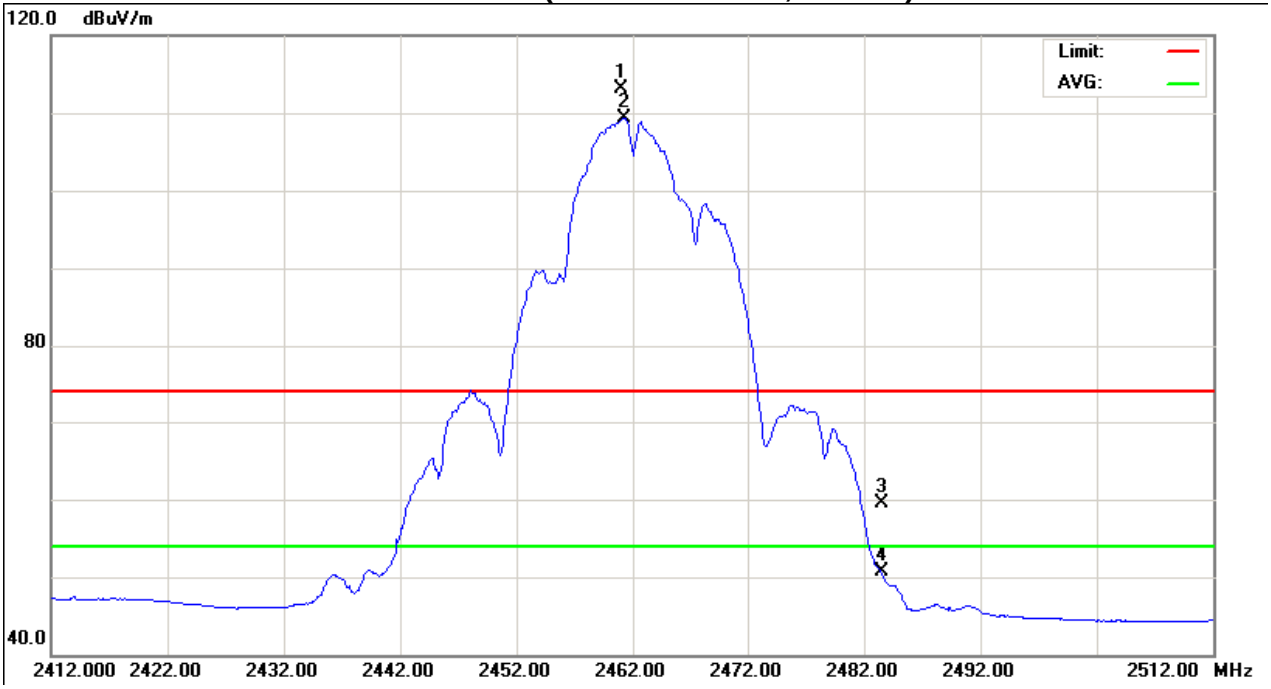
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

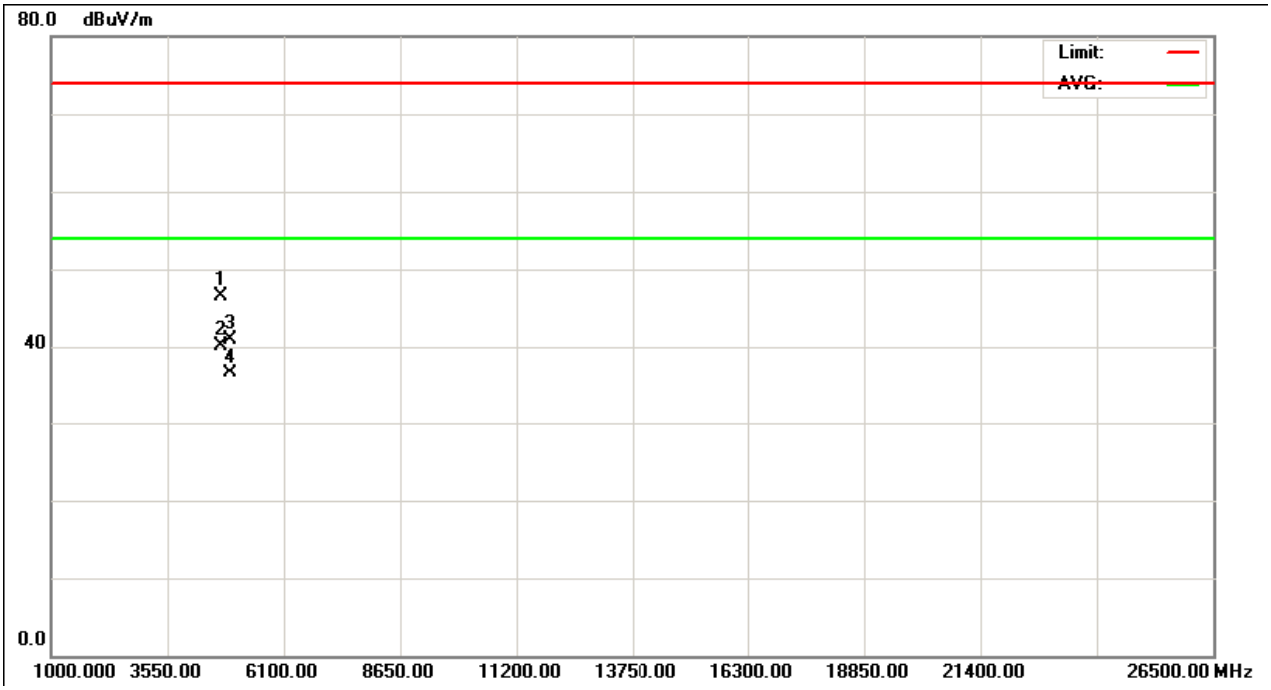
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH11(Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH11 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2461.10	H	71.35	67.66	33.00	104.35	100.66			X/F
2483.50	H	21.81	12.74	33.11	54.92	45.85	74.00	54.00	X/E
4703.85	H	41.87	35.18	4.09	45.96	39.27	74.00	54.00	X/H
4924.52	H	35.21	31.12	4.84	40.05	35.96	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

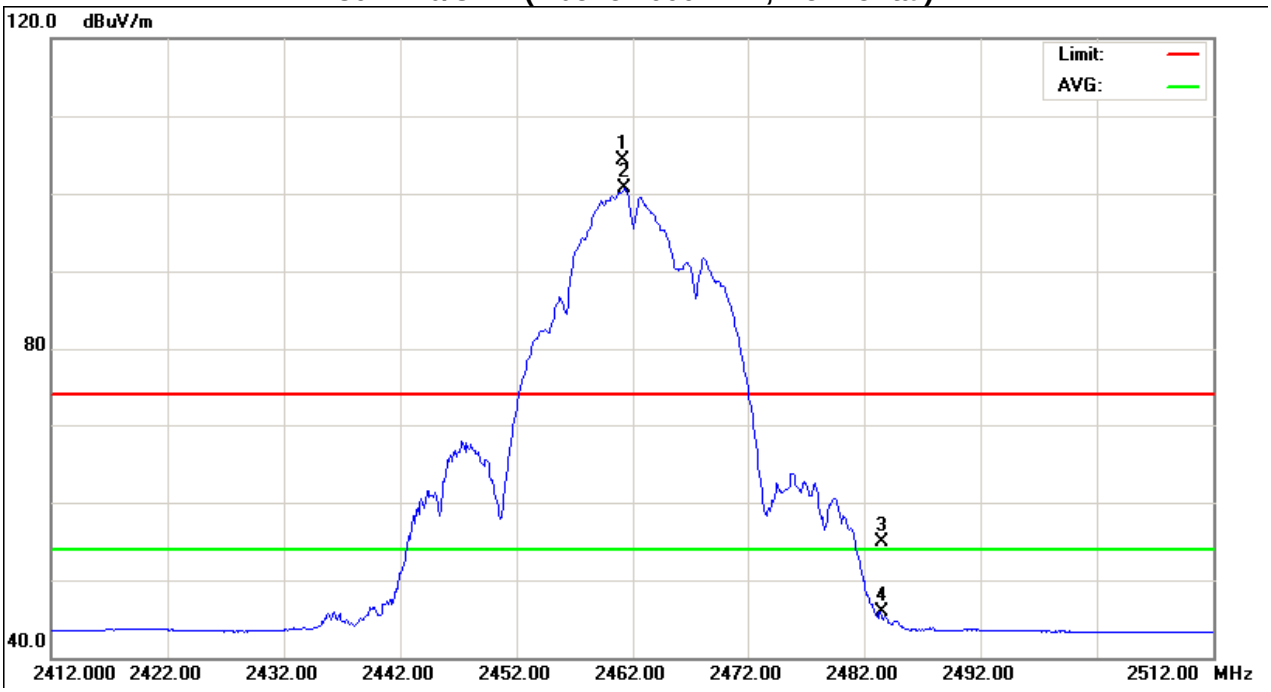
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

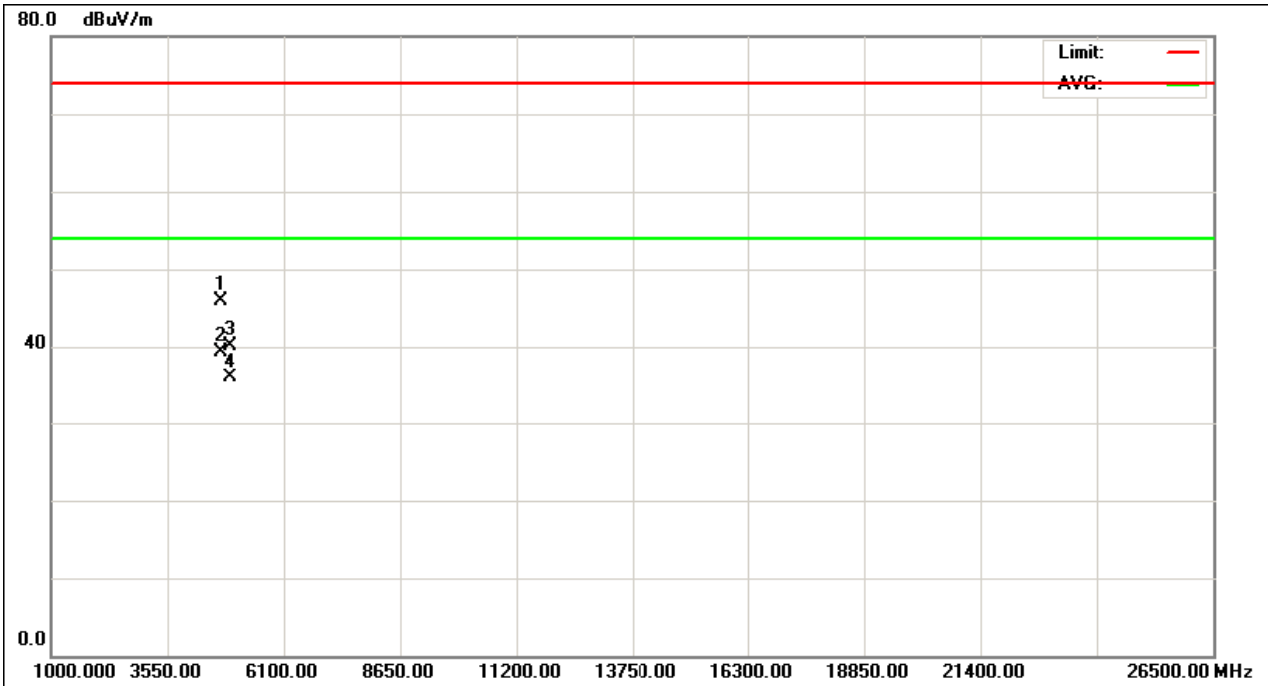
(7) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH11(Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	30.84	18.28	32.63	63.47	50.91	74.00	54.00	X/E
2408.20	V	80.86	70.63	32.72	113.58	103.35			X/F
4703.85	V	44.64	42.81	4.09	48.73	46.90	74.00	54.00	X/H
4824.11	V	39.02	33.24	4.50	43.52	37.74	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

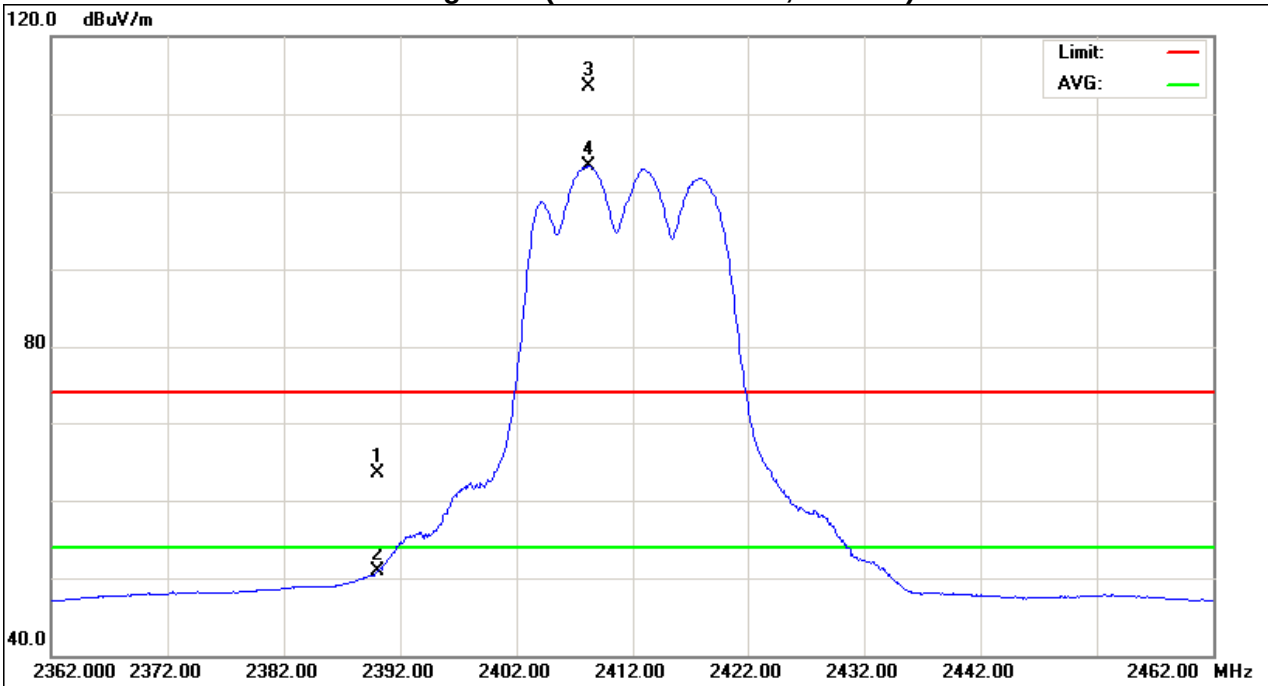
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

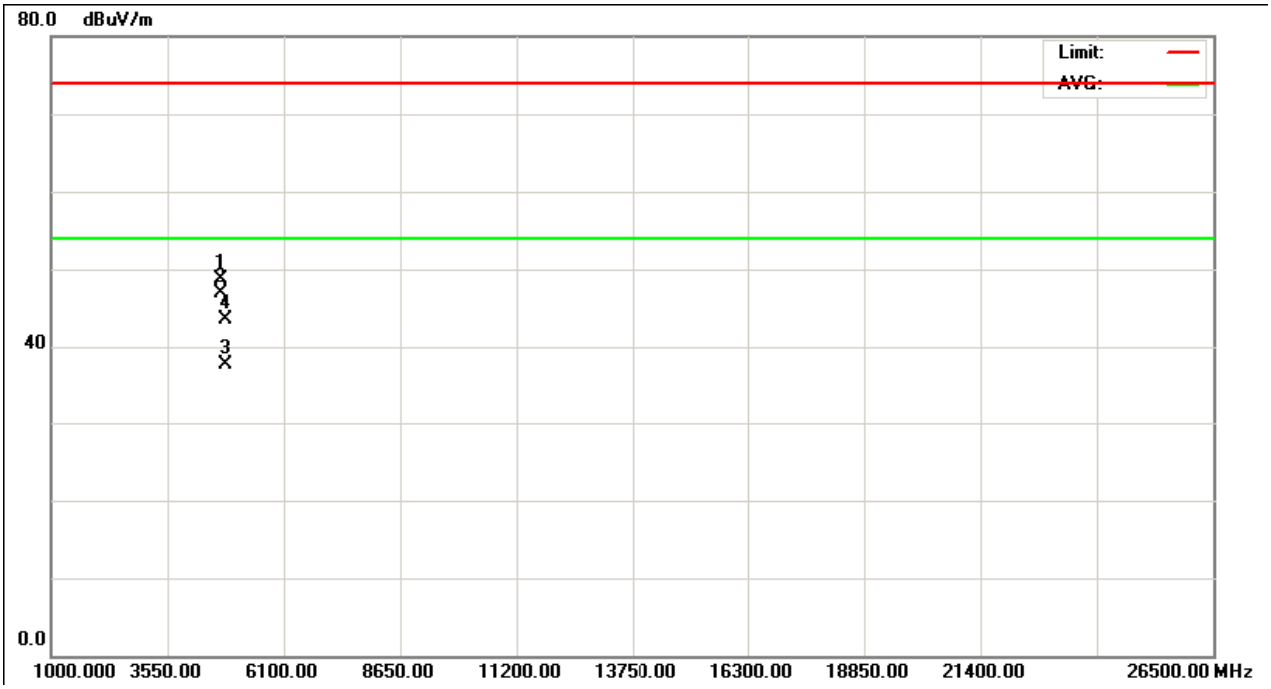
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH01(Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	20.49	11.06	32.63	53.12	43.69	74.00	54.00	X/E
2411.60	H	69.45	59.42	32.74	102.22	92.16			X/F
4703.94	H	42.12	37.94	4.09	46.21	42.03	74.00	54.00	X/H
4824.66	H	39.94	34.04	4.50	44.44	38.54	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

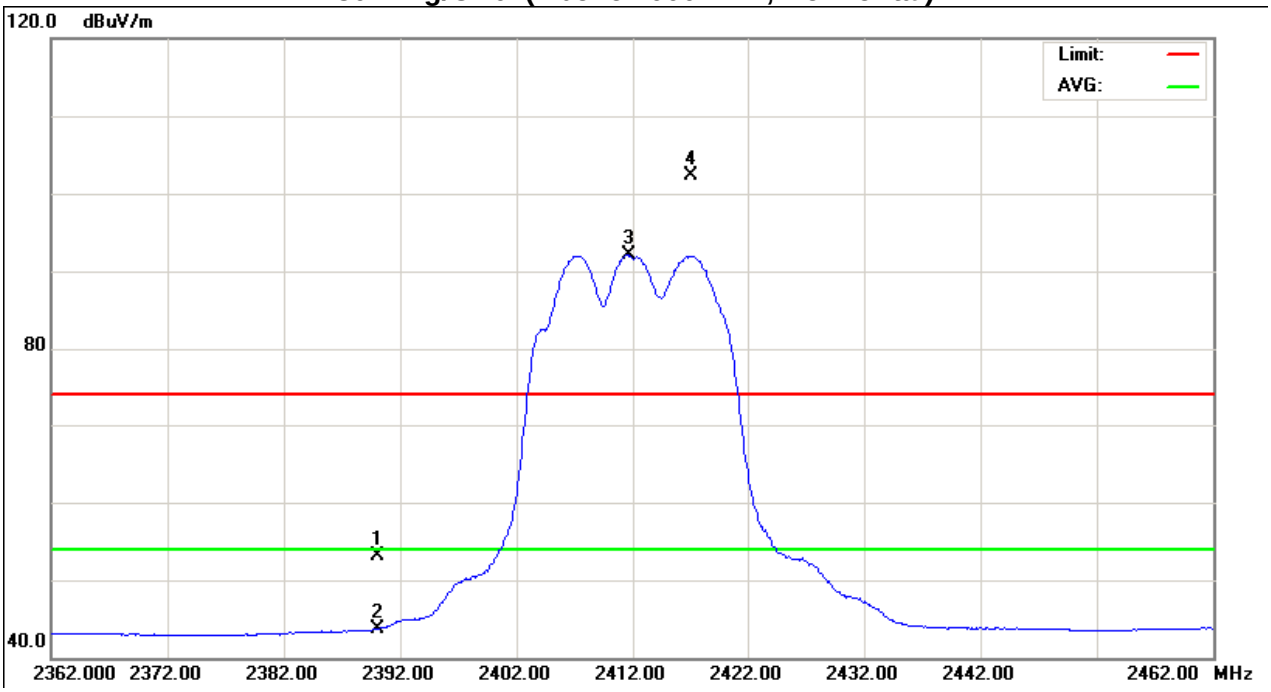
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

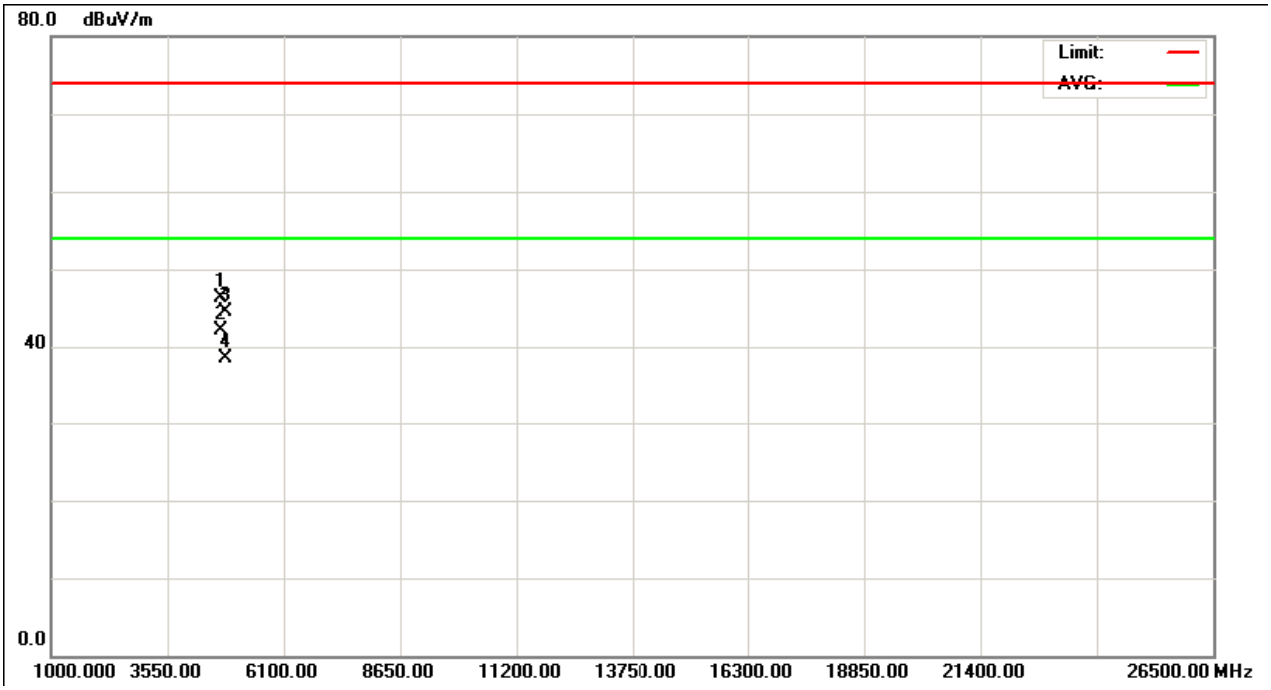
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH01(Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2438.30	V	80.19	70.06	32.88	113.07	102.94			X/F
4703.86	V	45.66	42.25	4.09	49.75	46.34	74.00	54.00	X/H
4874.11	V	38.73	33.12	4.67	43.40	37.79	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

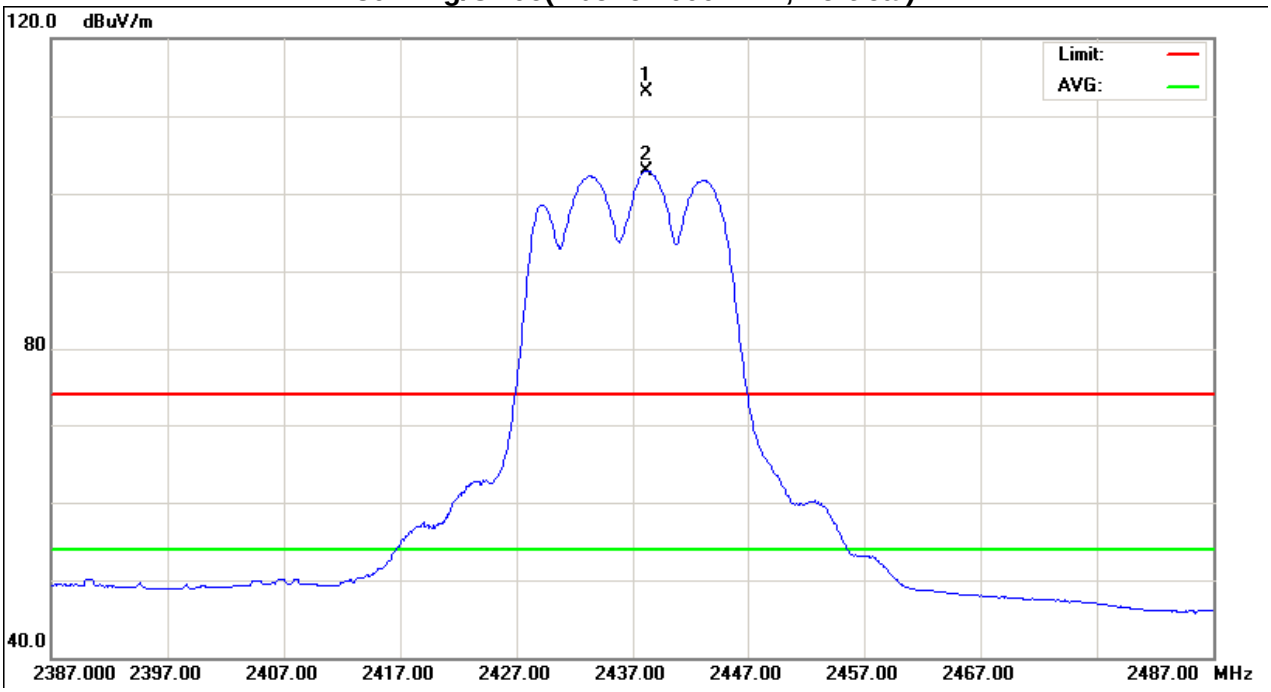
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

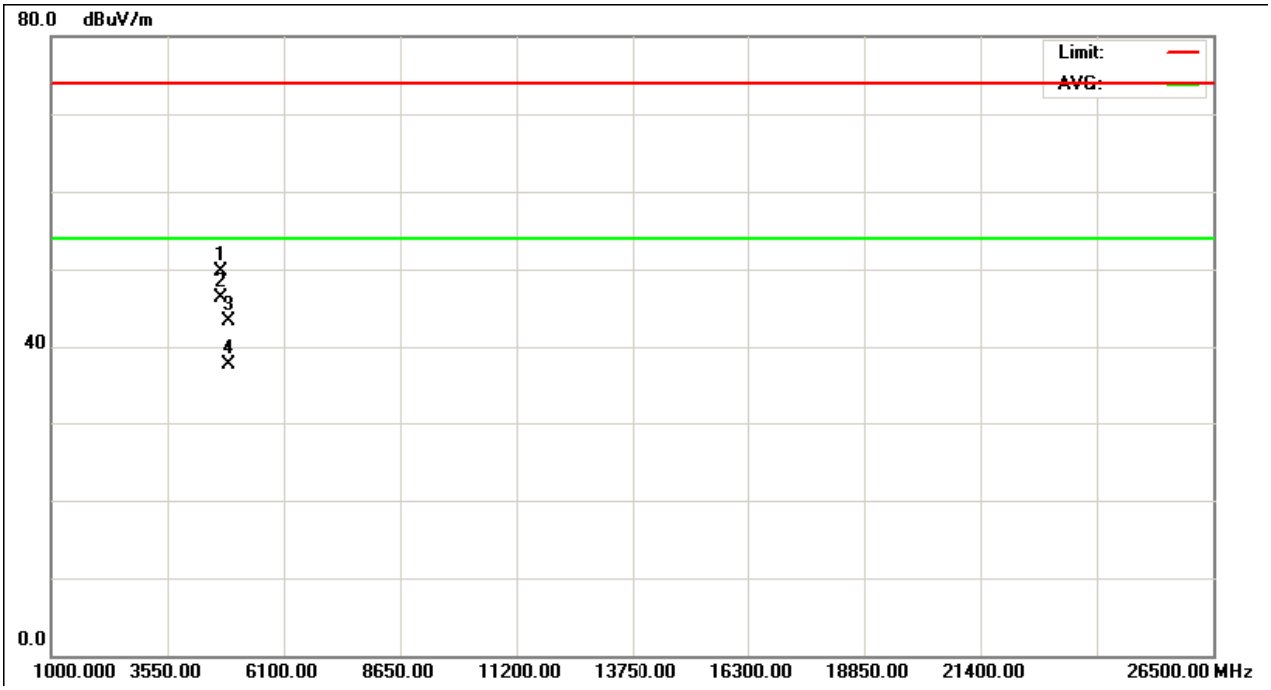
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH06(Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2432.10	H	70.73	60.71	32.84	103.57	93.56			X/F
4704.06	H	41.24	39.64	4.09	45.33	43.73	74.00	54.00	X/H
4874.66	H	36.91	32.03	4.67	41.58	36.70	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

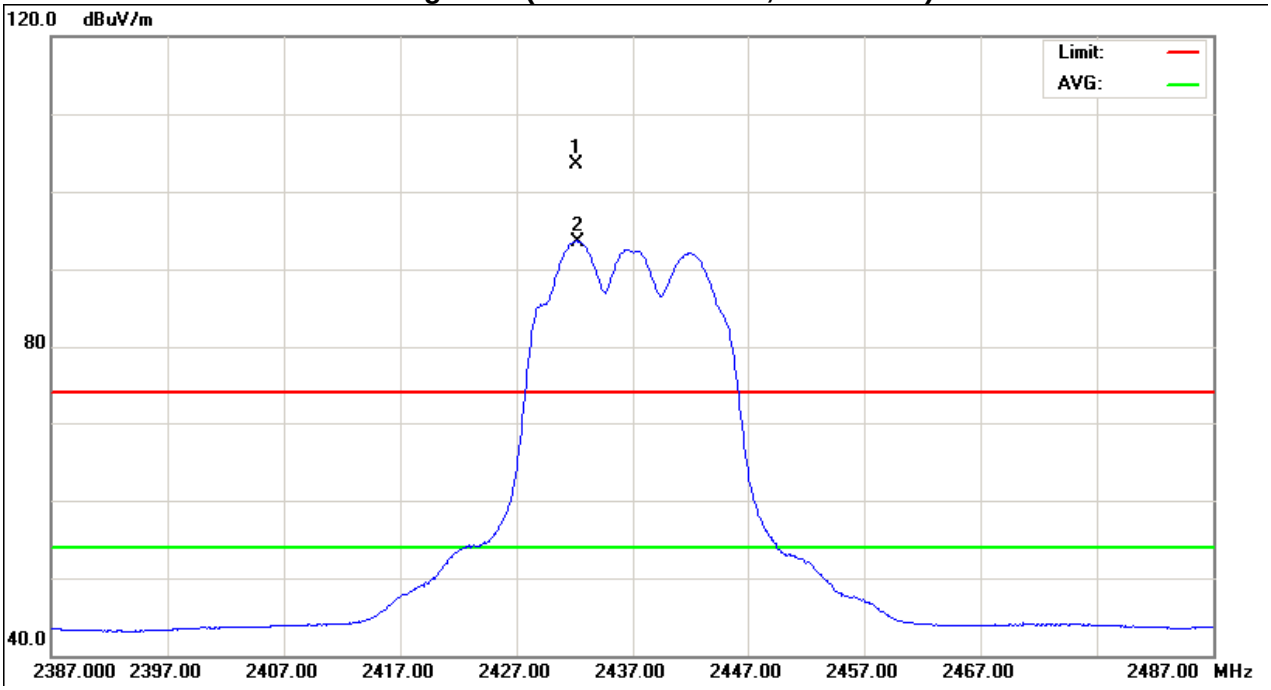
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

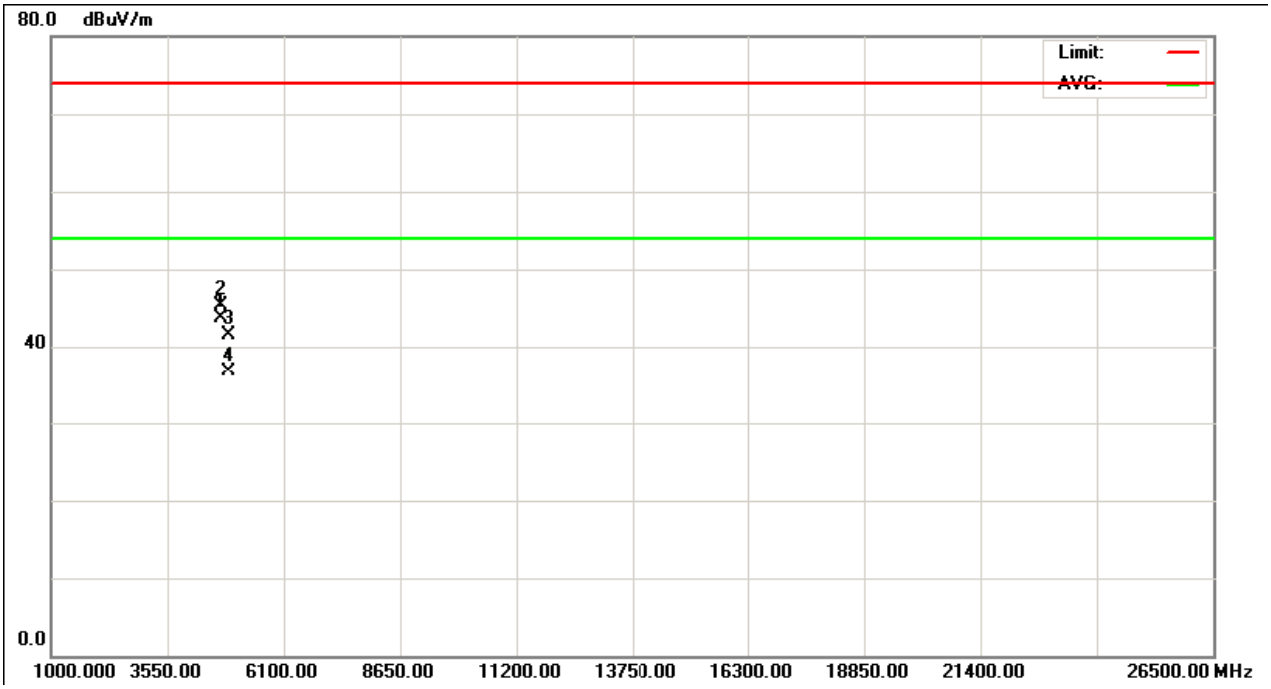
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH06(Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH11 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2458.30	V	80.45	70.10	32.98	113.43	103.08			X/F
2483.50	V	33.05	17.84	33.11	66.16	50.95	74.00	54.00	X/E
4704.04	V	42.41	39.21	4.09	46.50	43.30	74.00	54.00	X/H
4924.75	V	37.96	32.77	4.84	42.80	37.61	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

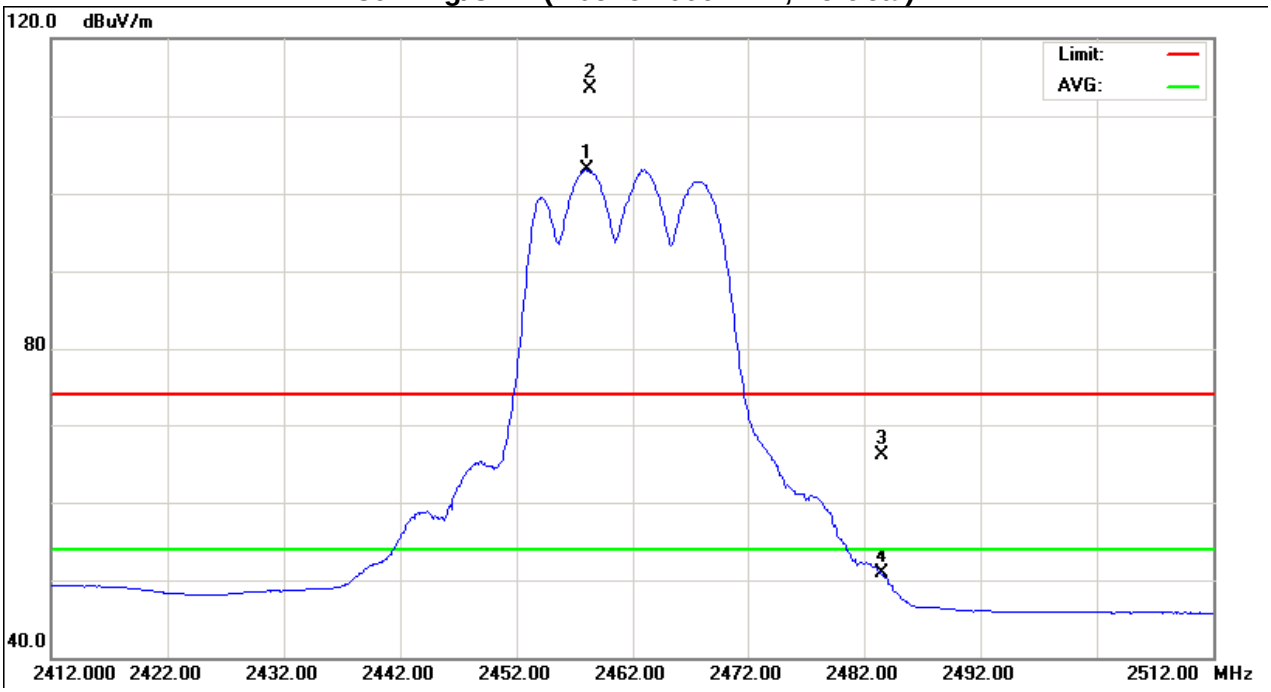
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

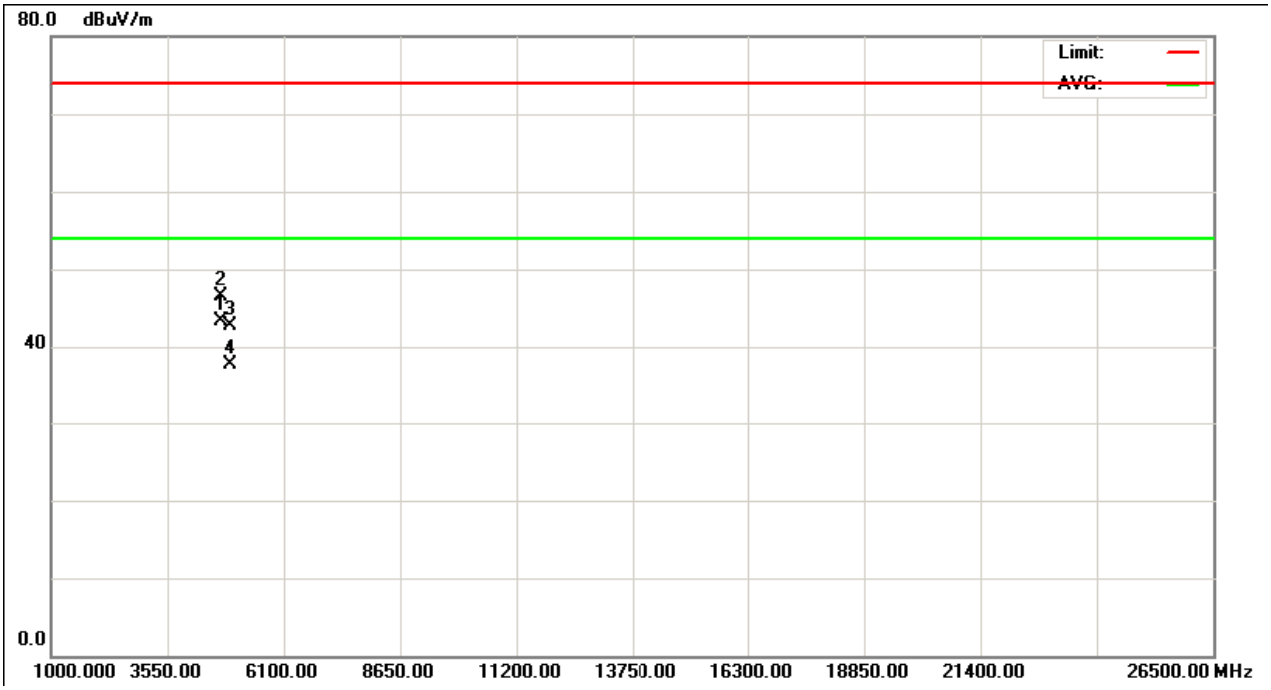
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH11(Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH11 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2467.00	H	70.72	60.47	33.03	103.75	93.47			X/F
2483.50	H	27.76	12.56	33.11	60.87	45.67	74.00	54.00	X/E
4703.90	H	43.92	39.48	4.09	48.01	43.57	74.00	54.00	X/H
4924.10	H	38.23	33.30	4.84	43.07	38.14	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

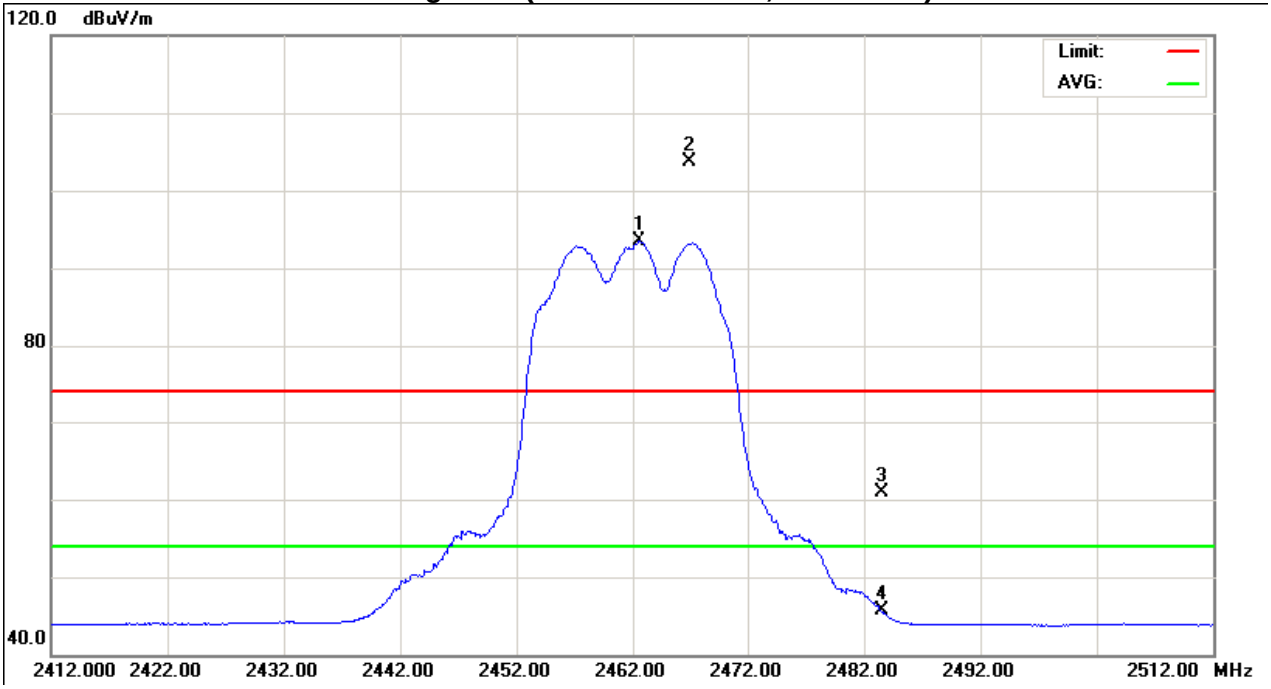
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

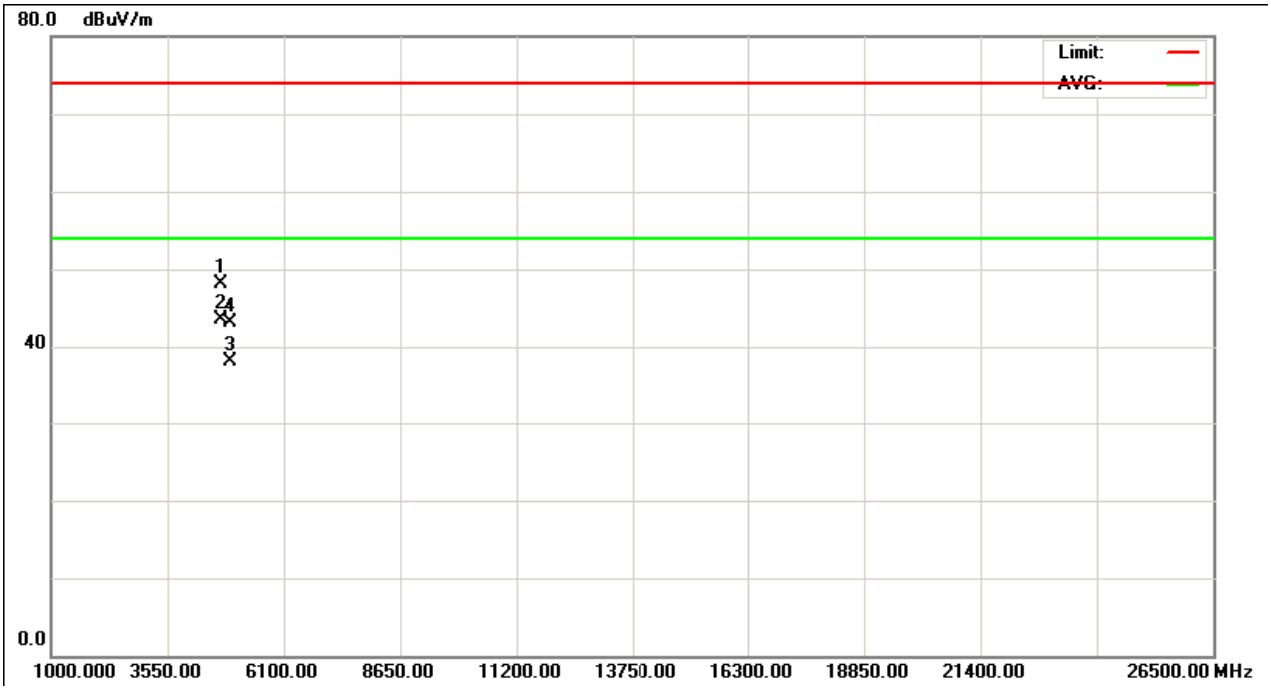
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH11(Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	35.85	18.82	32.63	68.48	51.45	74.00	54.00	X/E
2408.70	V	80.01	69.84	32.72	112.73	102.56			X/F
4703.24	V	42.69	36.25	4.09	46.78	40.34	74.00	54.00	X/H
4824.95	V	35.90	31.96	4.50	40.40	36.46	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

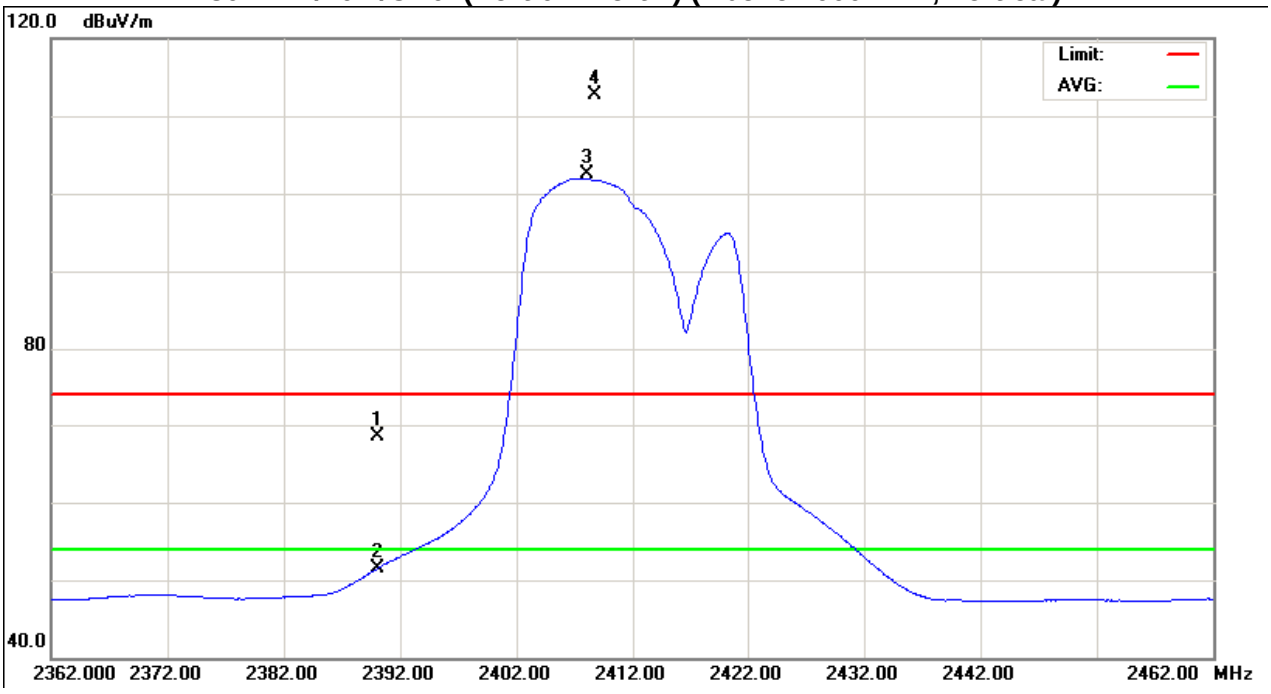
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

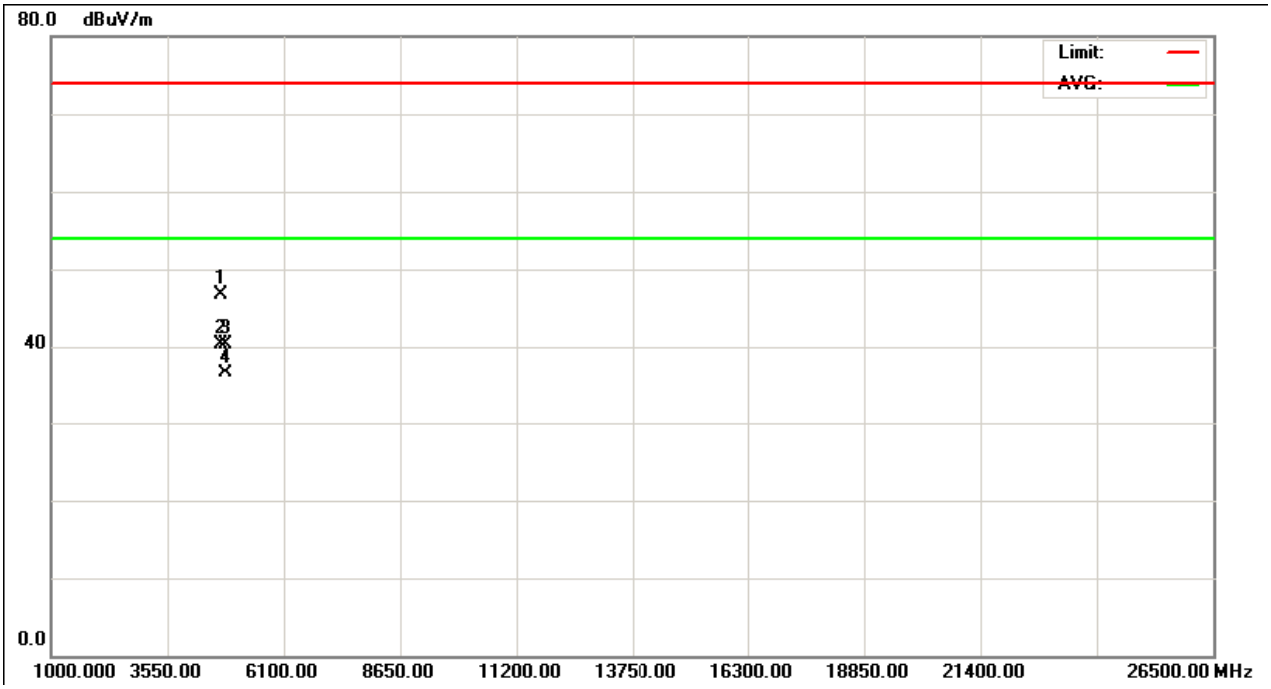
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/20M/CH01(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	23.72	12.21	32.63	56.35	44.84	74.00	54.00	X/E
2406.60	H	70.34	58.69	32.72	103.06	91.40			X/F
4703.87	H	41.92	35.78	4.09	46.01	39.87	74.00	54.00	X/H
4824.36	H	35.63	31.12	4.50	40.13	35.62	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

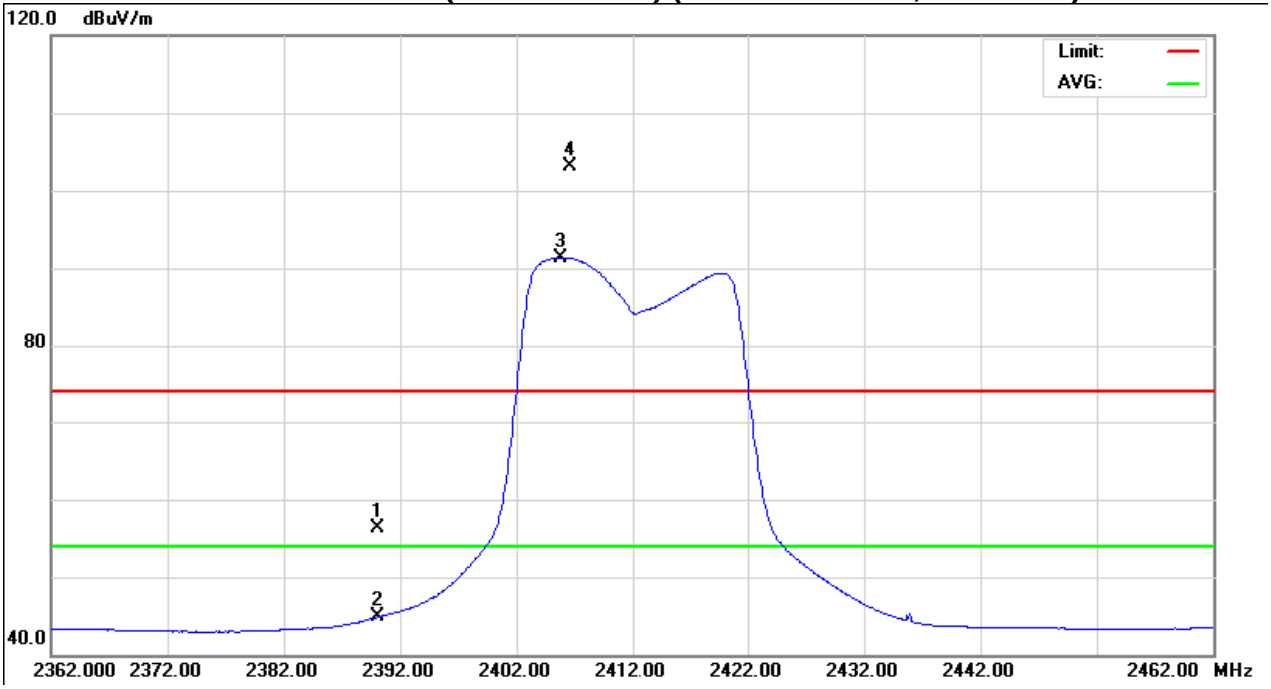
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

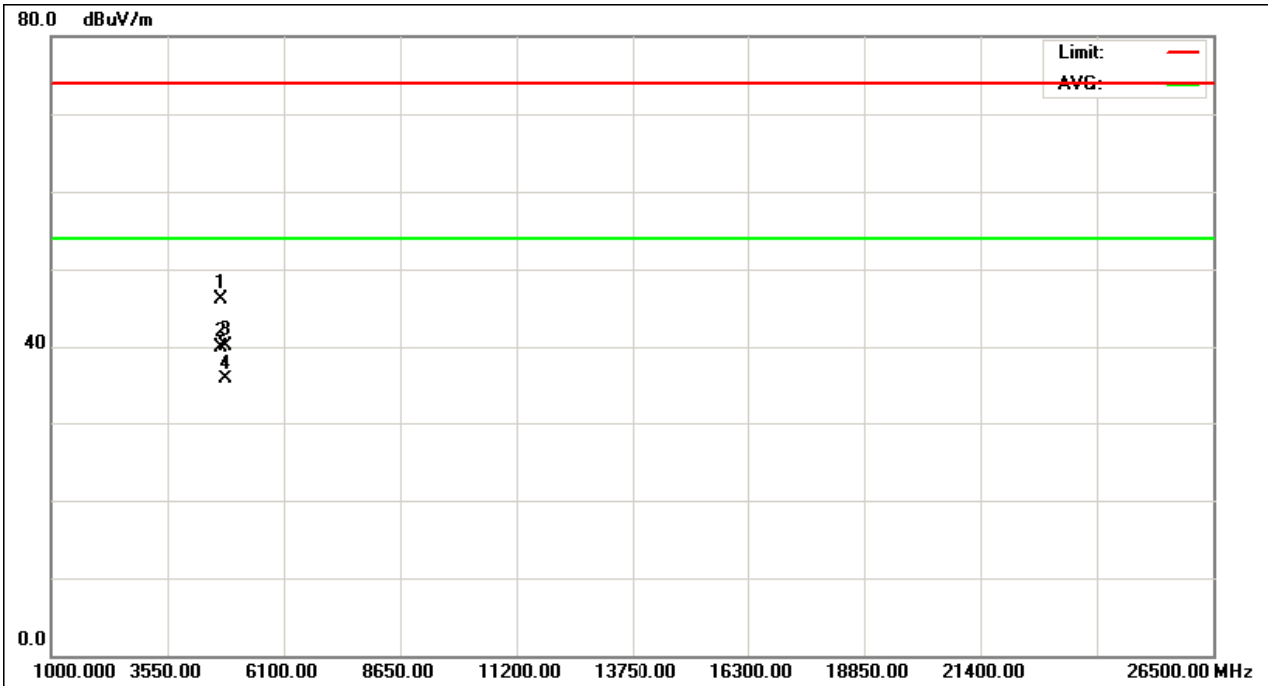
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/20M/CH01(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2432.70	V	81.15	69.01	32.85	114.00	101.86			X/F
4703.62	V	41.88	35.26	4.09	45.97	39.35	74.00	54.00	X/H
4874.65	V	35.21	30.97	4.67	39.88	35.64	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

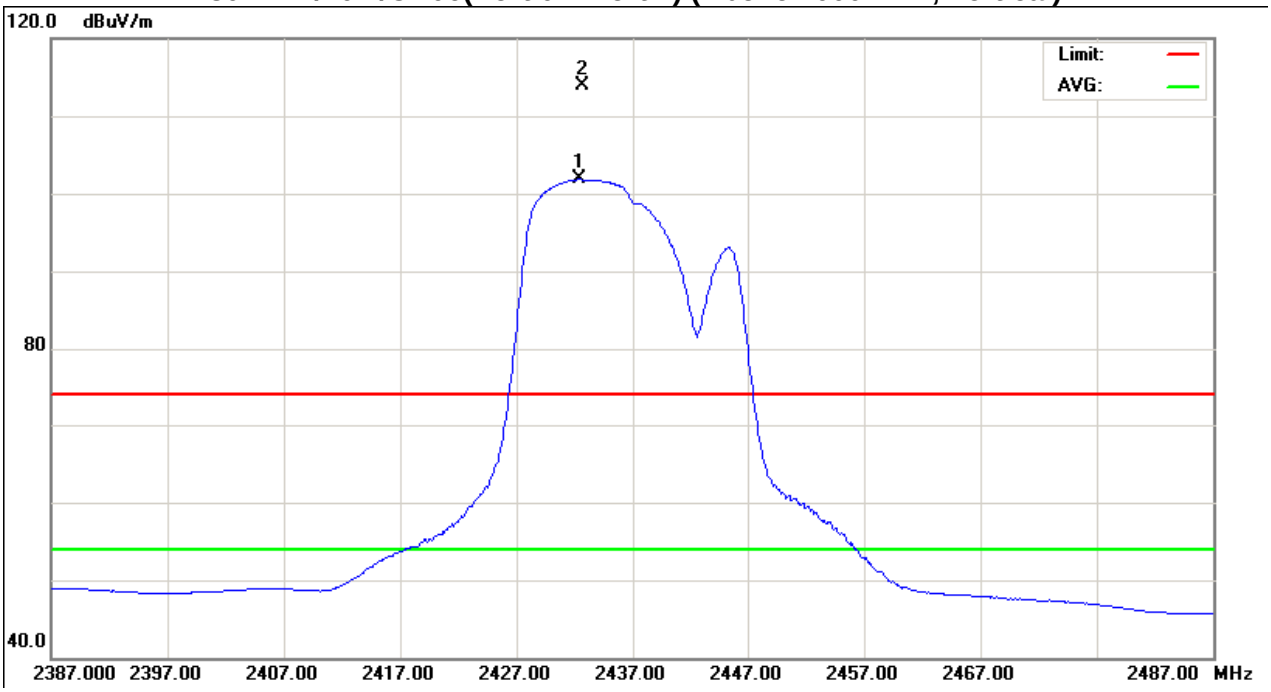
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

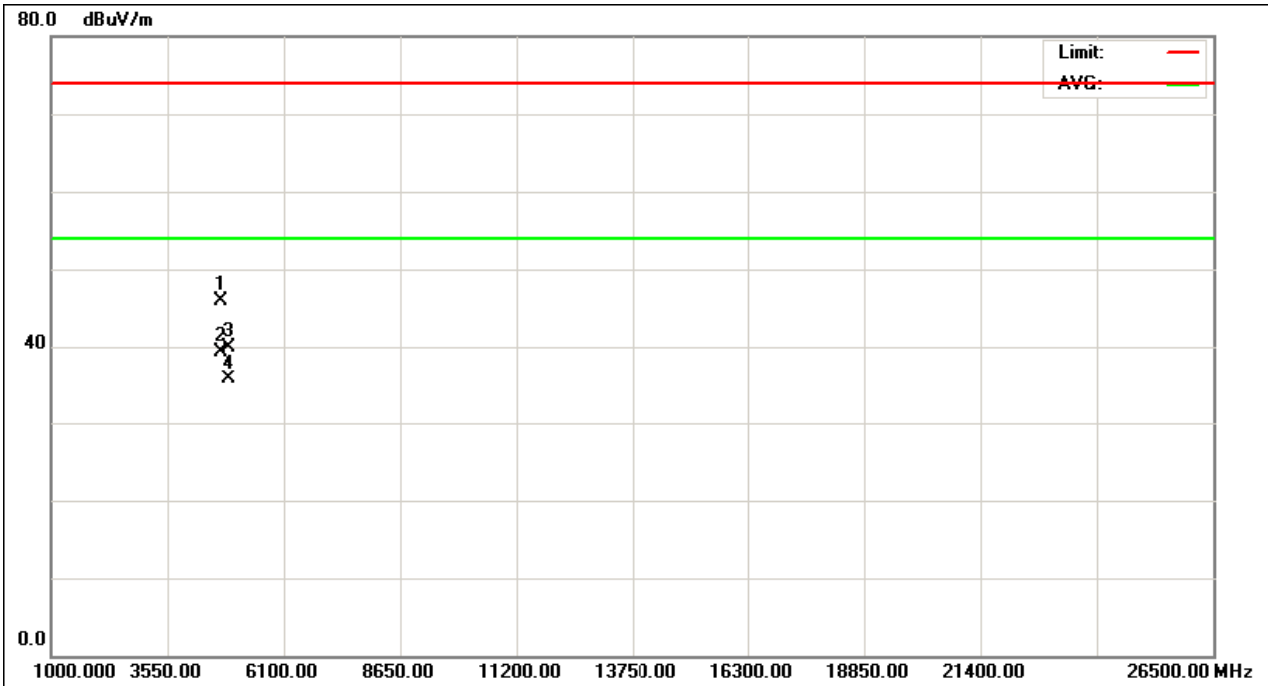
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/20M/CH06(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2429.70	H	71.04	59.10	32.83	103.87	91.94			X/F
4703.52	H	41.69	35.58	4.09	45.78	39.67	74.00	54.00	X/H
4874.97	H	35.29	31.08	4.67	39.96	35.75	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

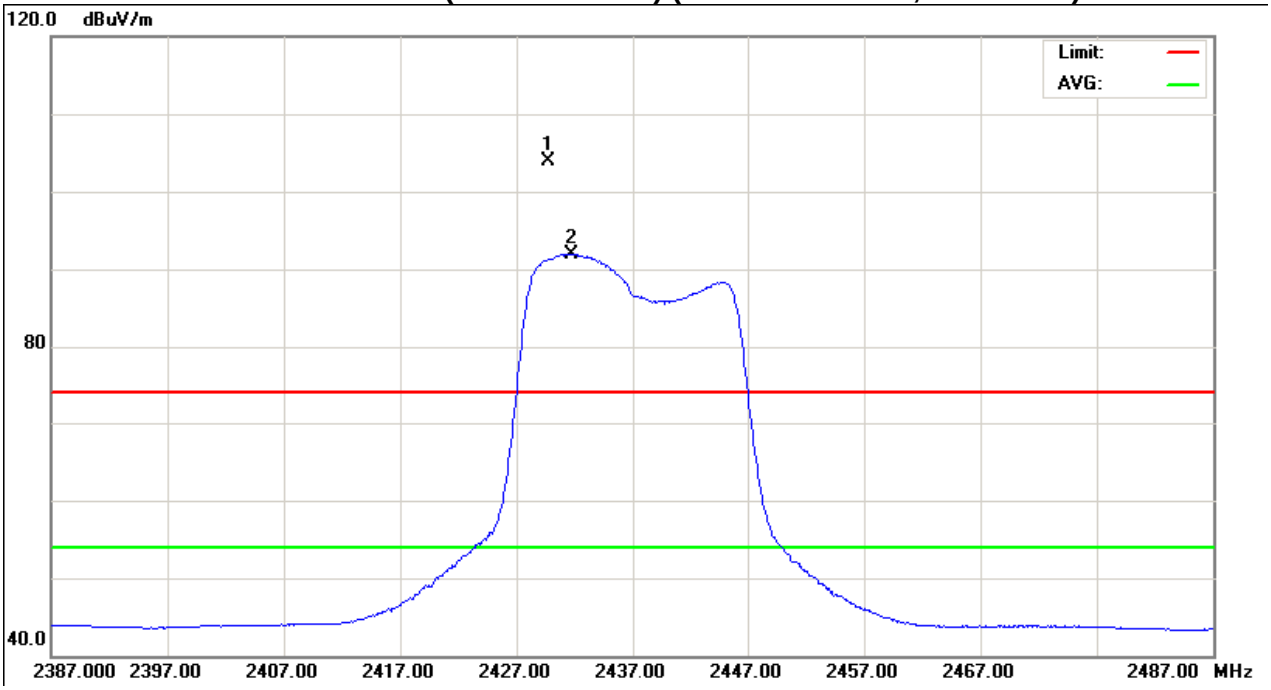
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

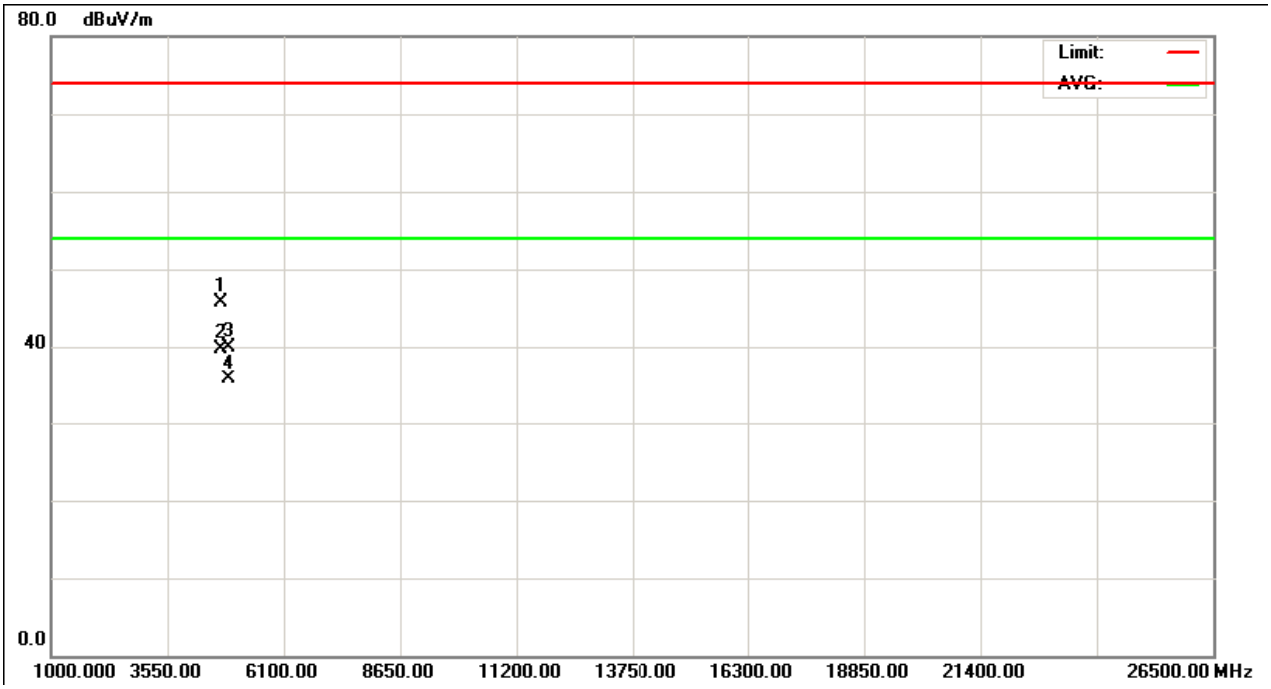
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/20M/CH06(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH11 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2465.40	V	80.84	69.95	33.01	113.85	102.96			X/F
2483.50	V	33.67	18.62	33.11	66.78	51.73	74.00	54.00	X/E
4703.54	V	42.91	35.95	4.09	47.00	40.04	74.00	54.00	X/H
4924.84	V	36.20	31.74	4.84	41.04	36.58	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

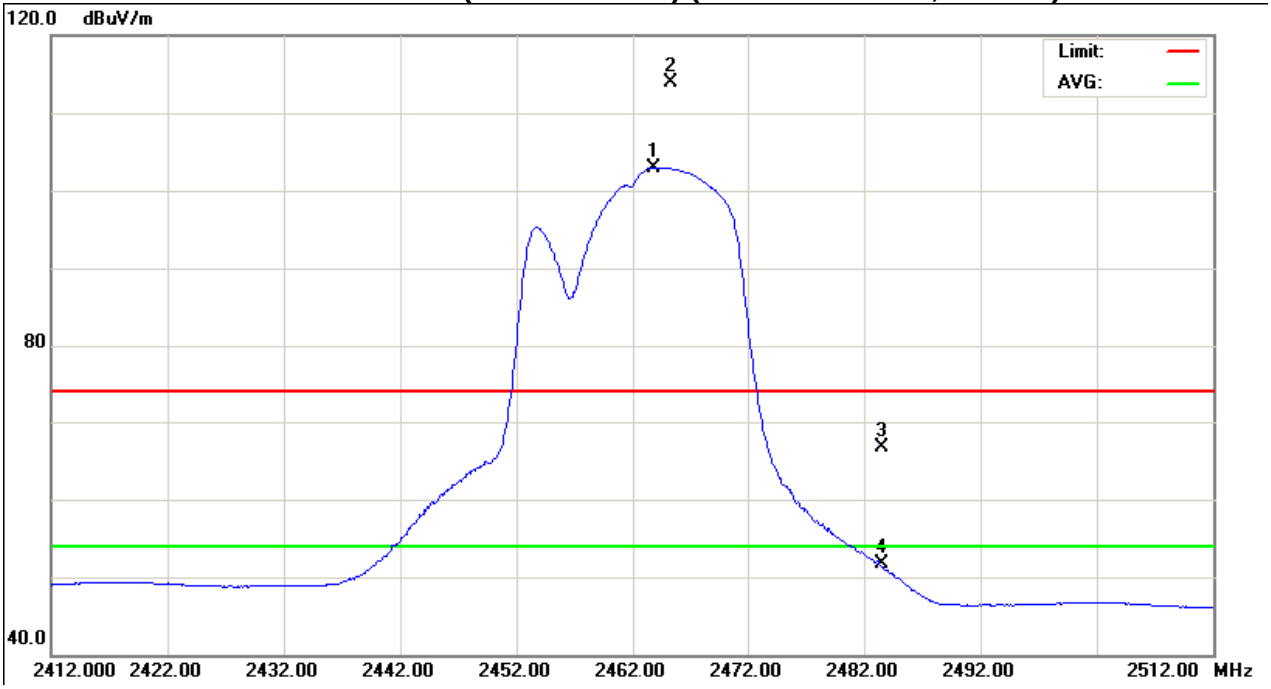
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

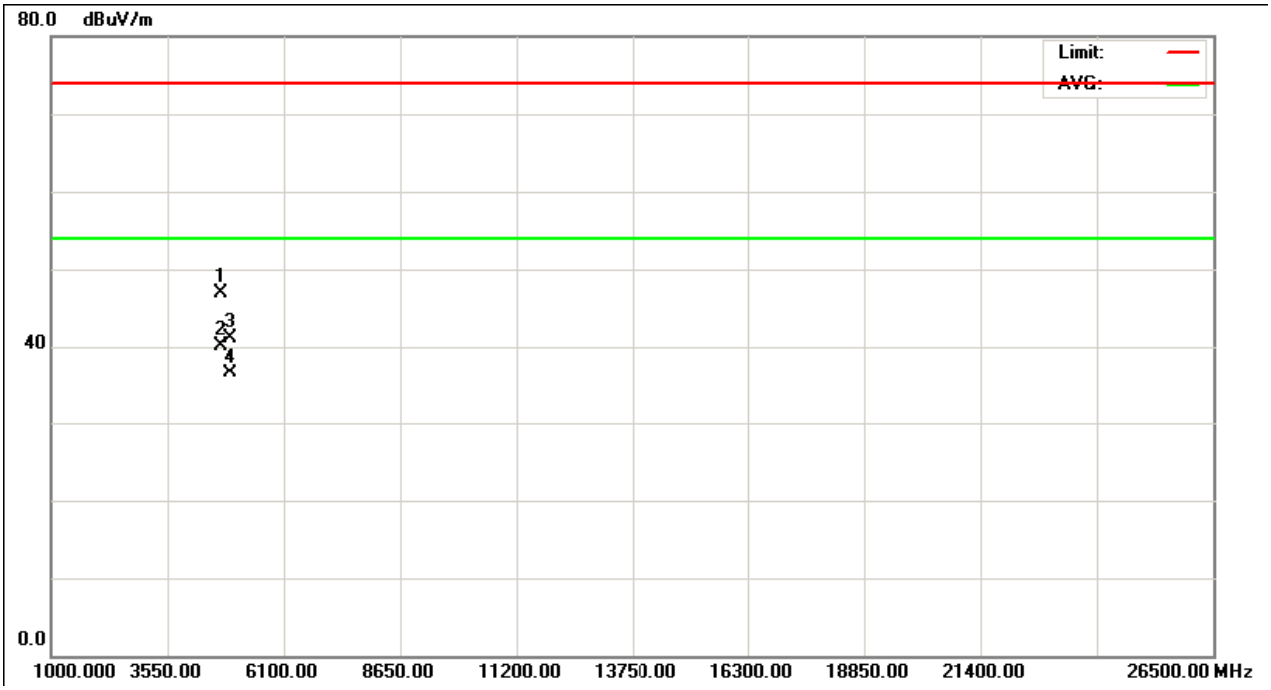
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/20M/CH11(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH11 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.50	H	71.83	59.55	33.01	104.84	92.56			X/F
2483.50	H	26.24	12.68	33.11	59.35	45.79	74.00	54.00	X/E
4703.50	H	42.07	35.59	4.09	46.16	39.68	74.00	54.00	X/H
4924.65	H	35.40	31.65	4.84	40.24	36.49	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

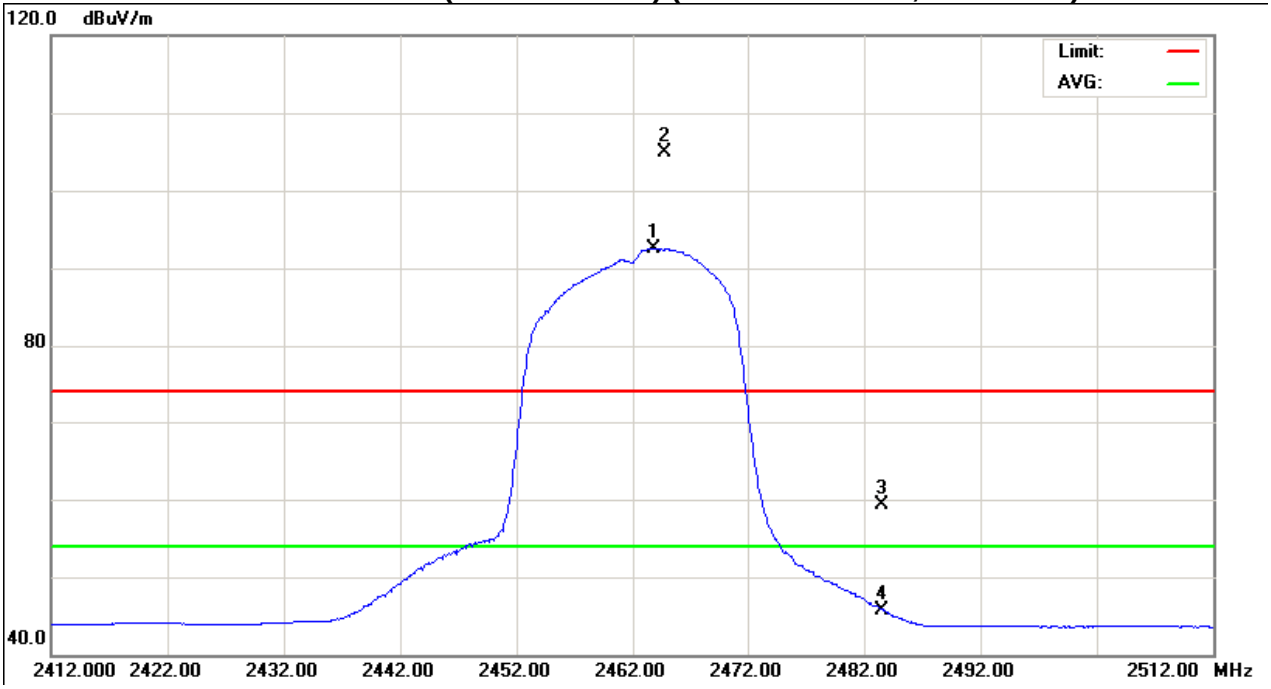
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

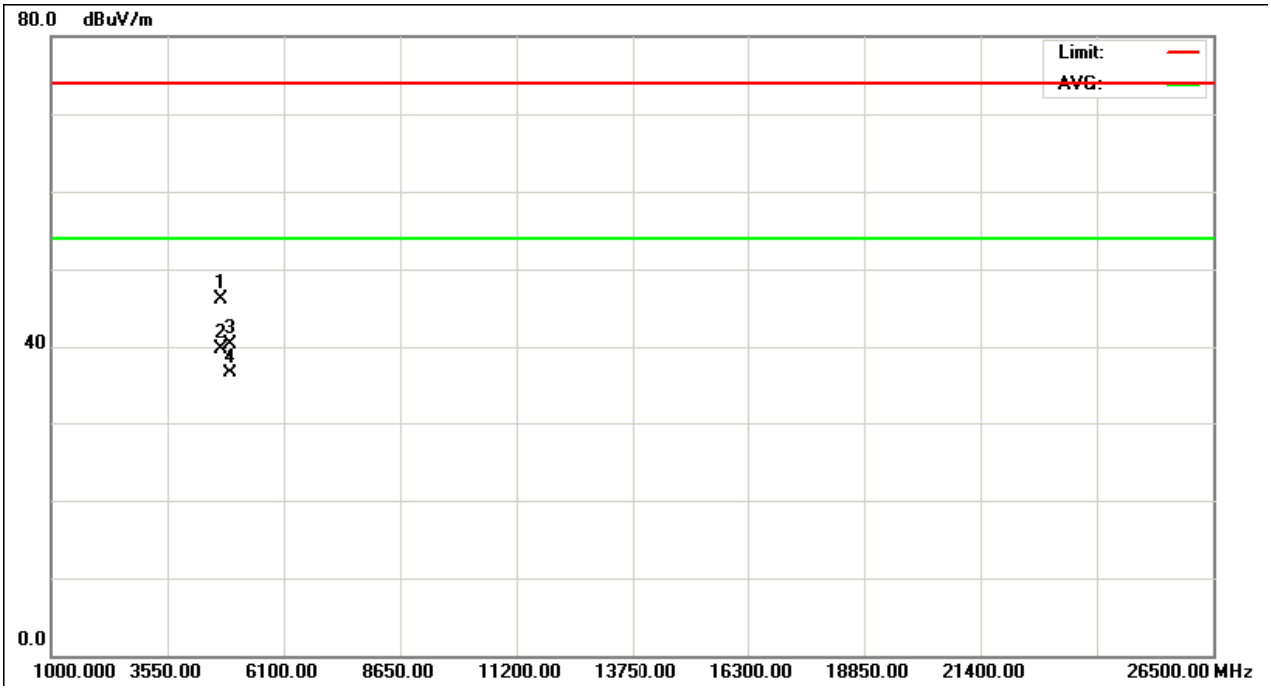
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/20M/CH11(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	32.02	18.62	32.63	64.65	51.25	74.00	54.00	X/E
2415.90	V	75.33	63.25	32.77	108.10	96.02			X/F
4844.59	V	34.58	30.80	4.57	39.15	35.37	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

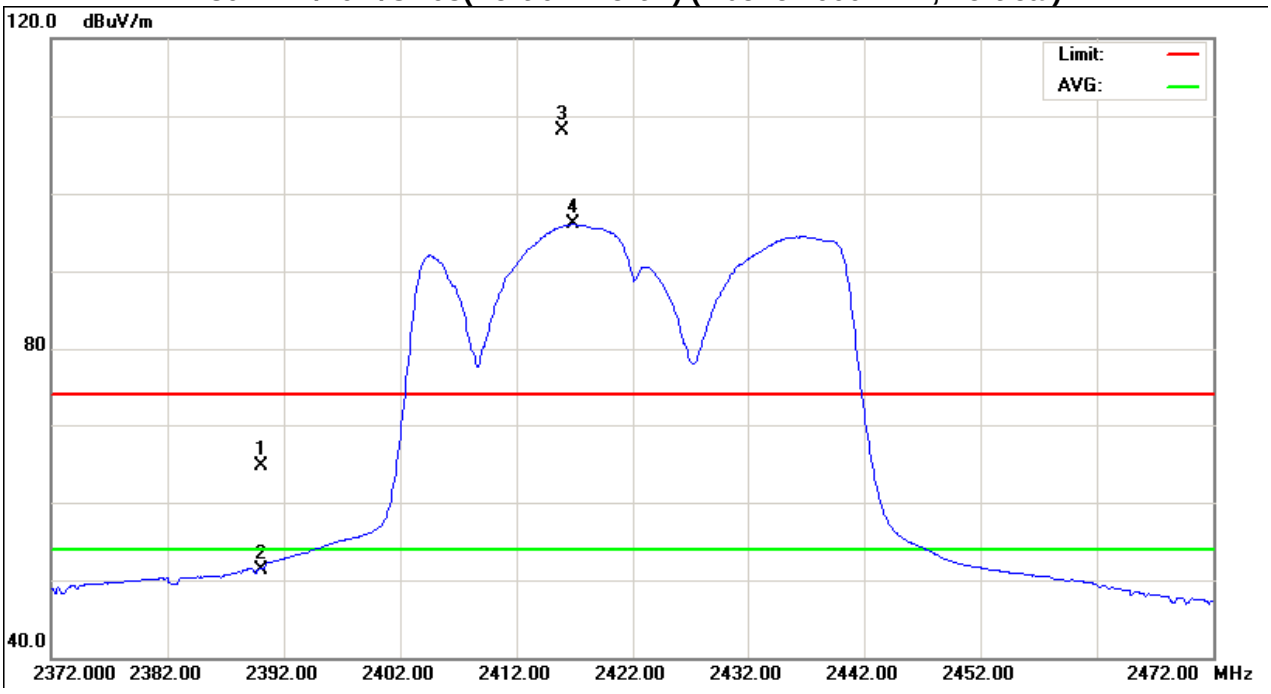
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

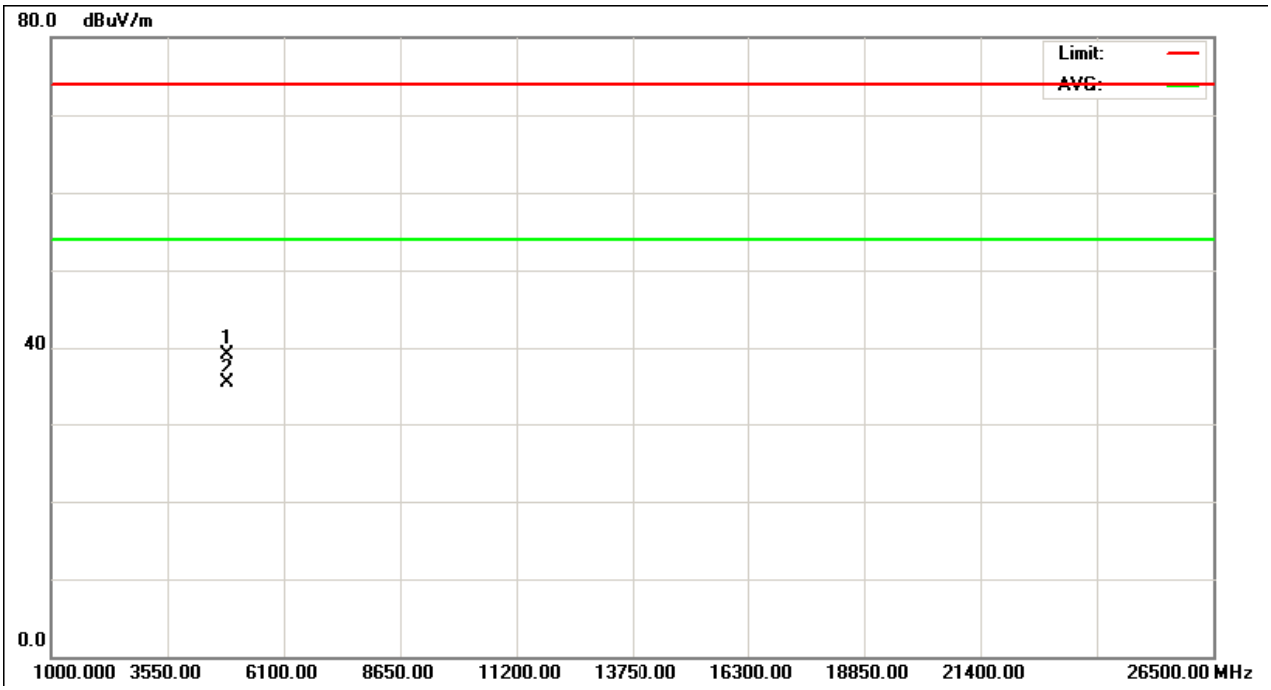
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/40M/CH03(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	24.46	13.33	32.63	57.09	45.96	74.00	54.00	X/E
2406.80	H	64.93	55.49	32.72	97.65	88.20			X/F
4845.82	H	34.75	29.78	4.57	39.32	34.35	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

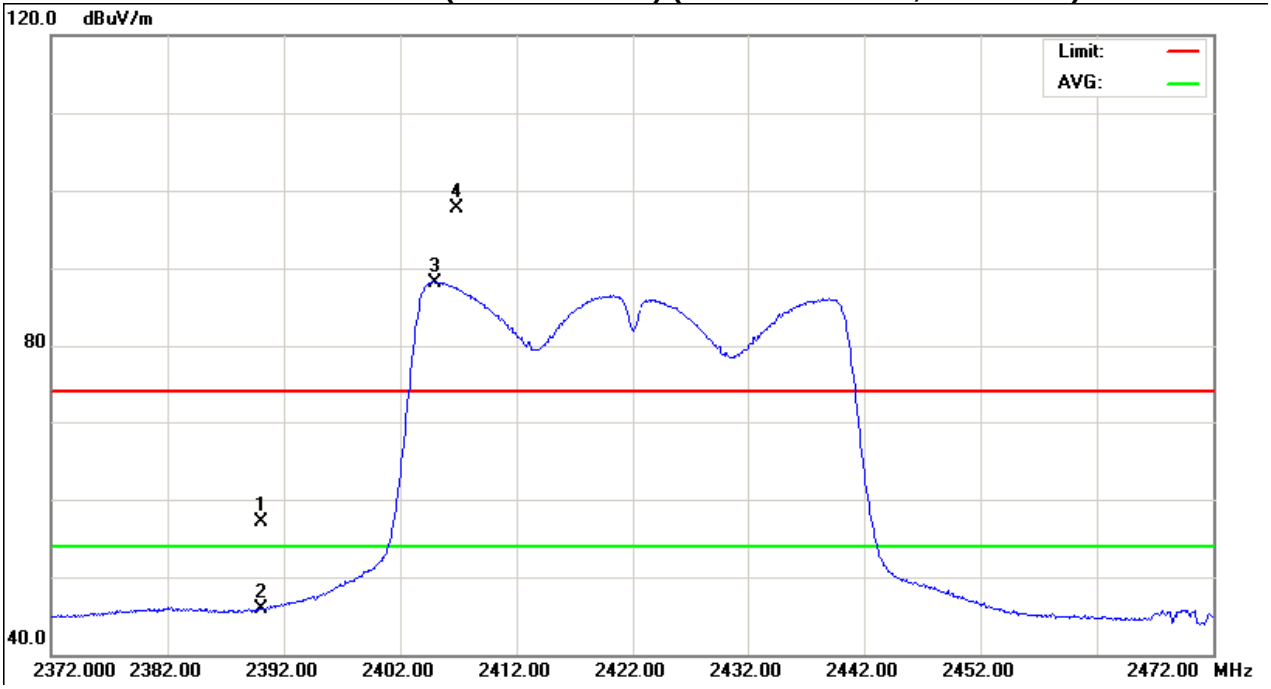
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

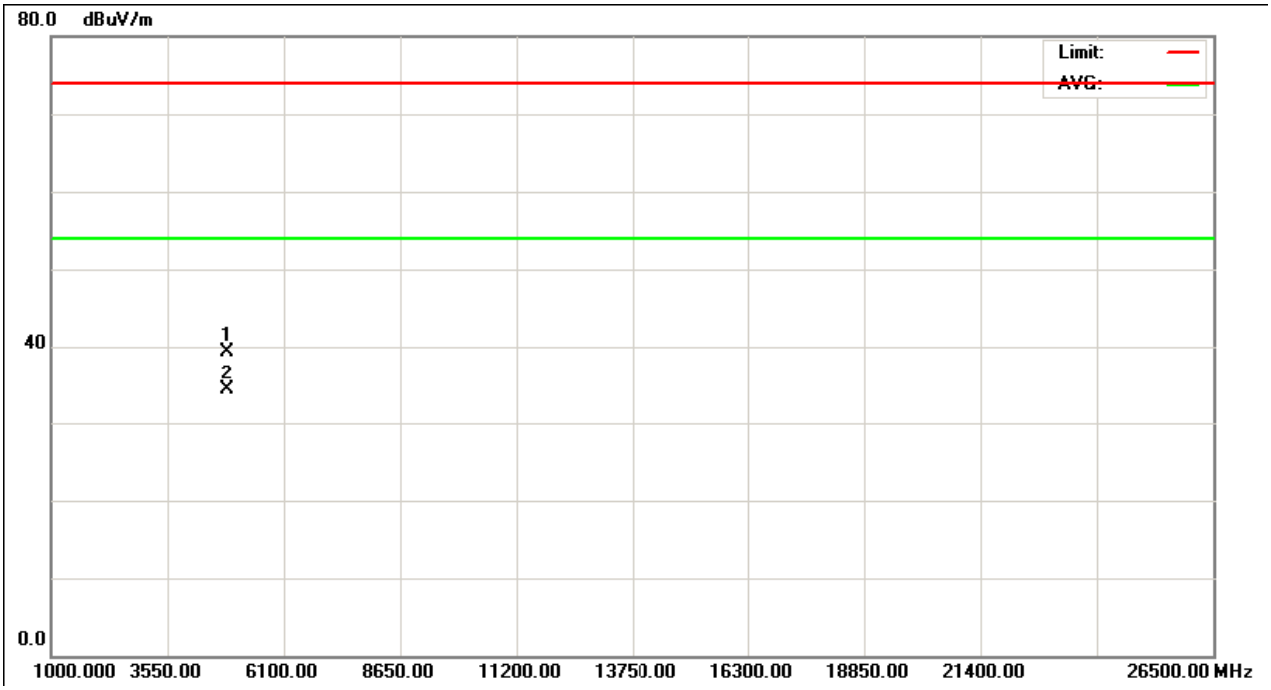
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/40M/CH03(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2443.10	V	74.94	62.76	32.80	107.74	95.56			X/F
4874.66	V	35.52	31.25	4.67	40.19	35.92	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

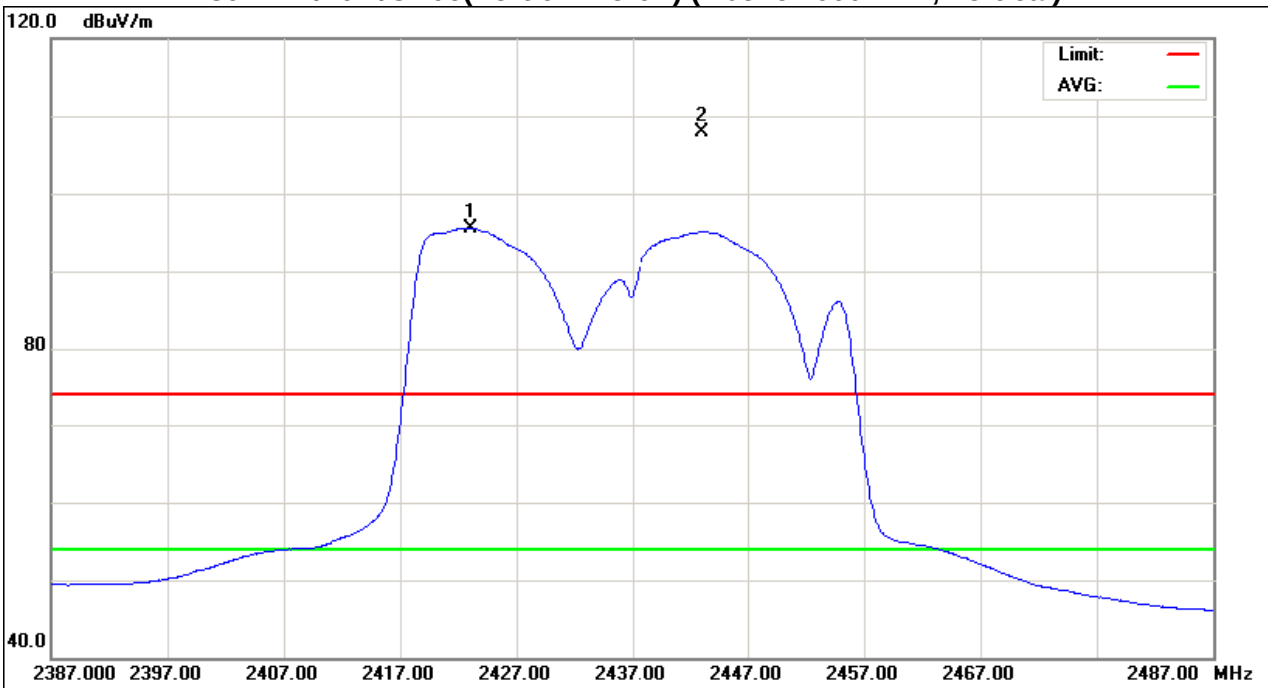
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

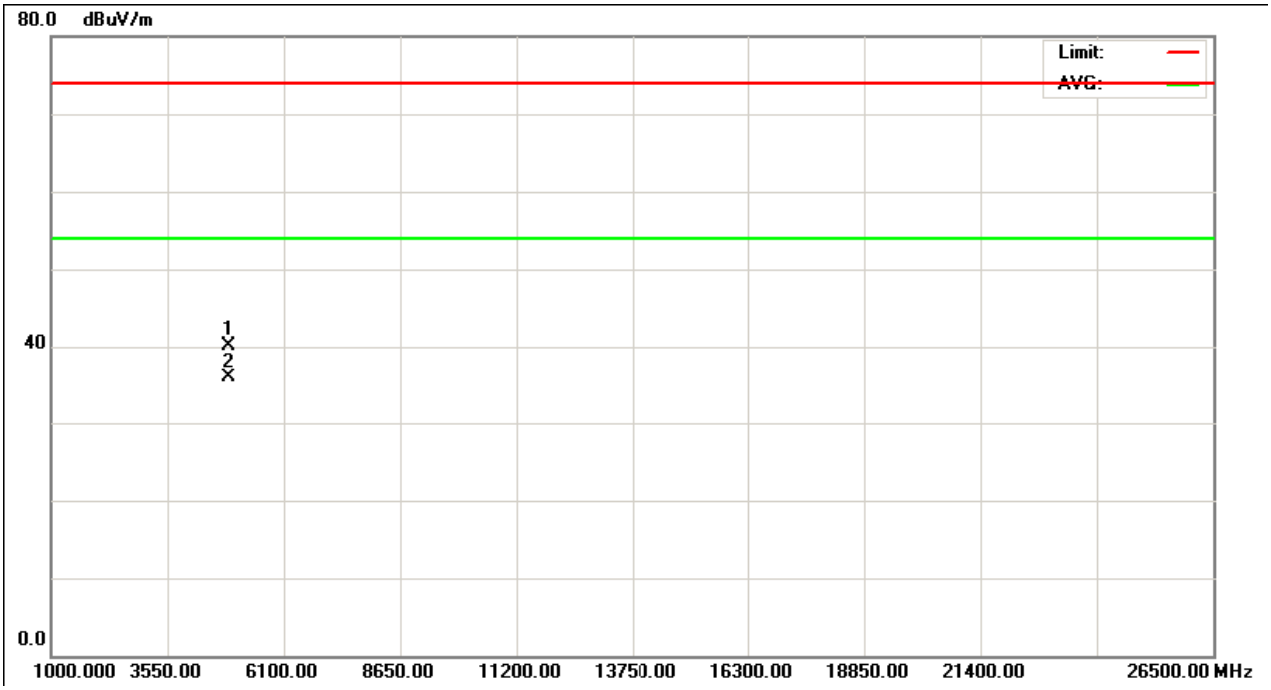
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/40M/CH06(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH06 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.90	H	64.82	55.48	32.94	97.76	88.42			X/F
4873.59	H	34.25	28.98	4.67	38.92	33.65	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

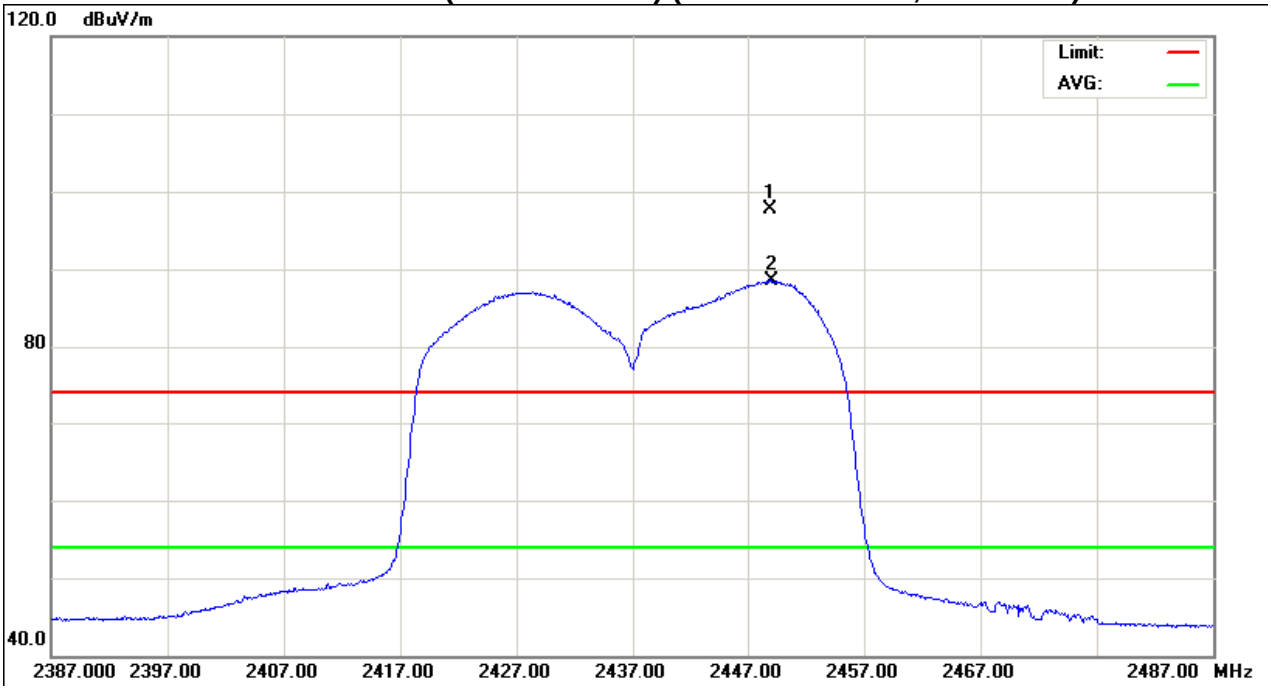
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

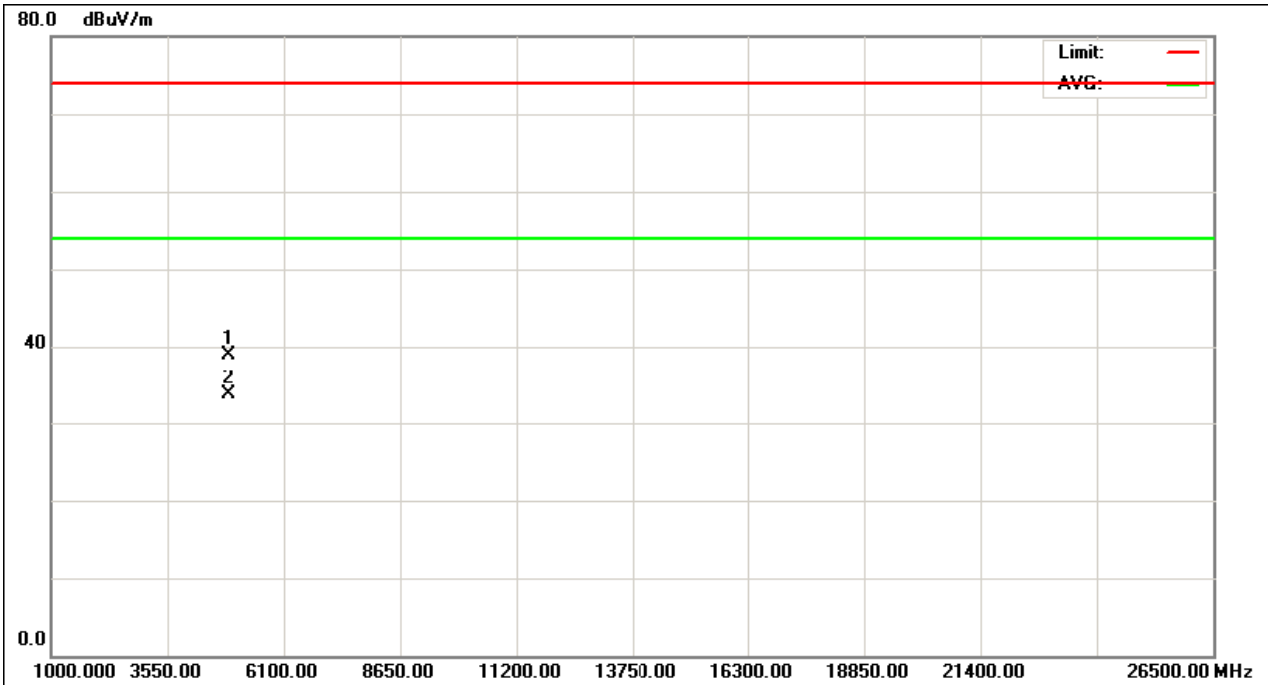
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/40M/CH06(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH09 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.00	V	75.04	62.82	32.93	107.97	95.75			X/F
2483.50	V	29.91	16.86	33.11	63.02	49.97	74.00	54.00	X/E
4905.68	V	35.40	30.76	4.78	40.18	35.54	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

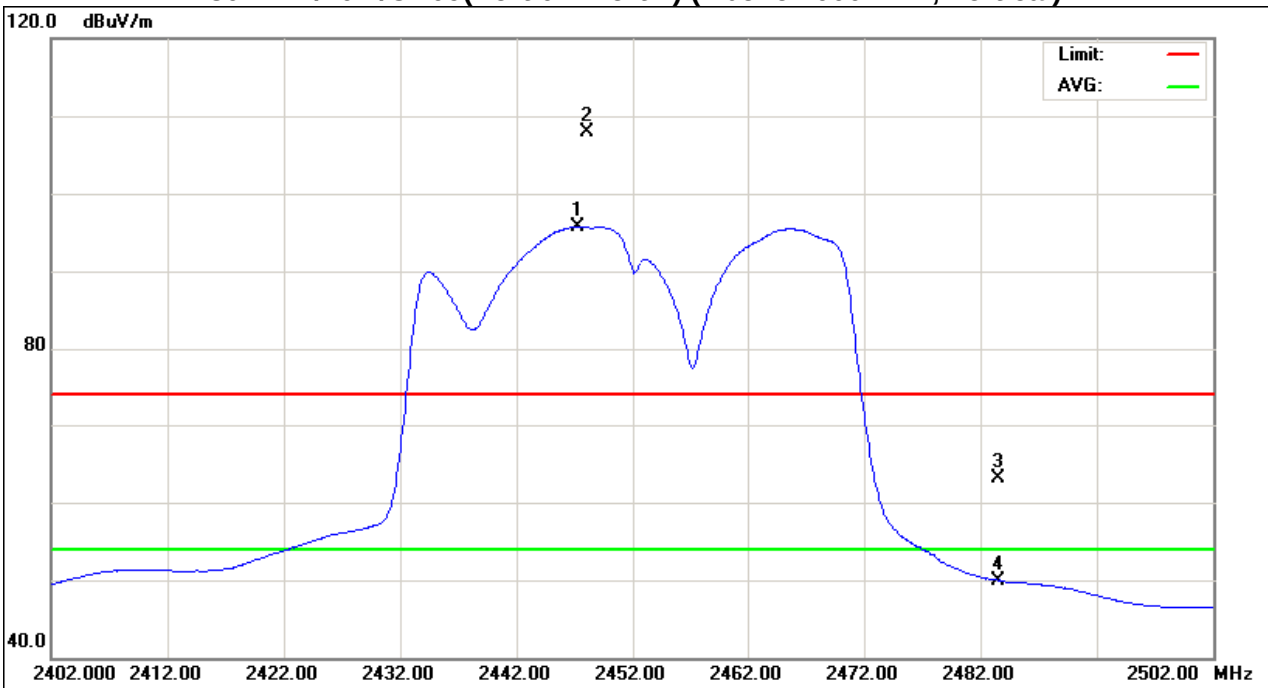
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

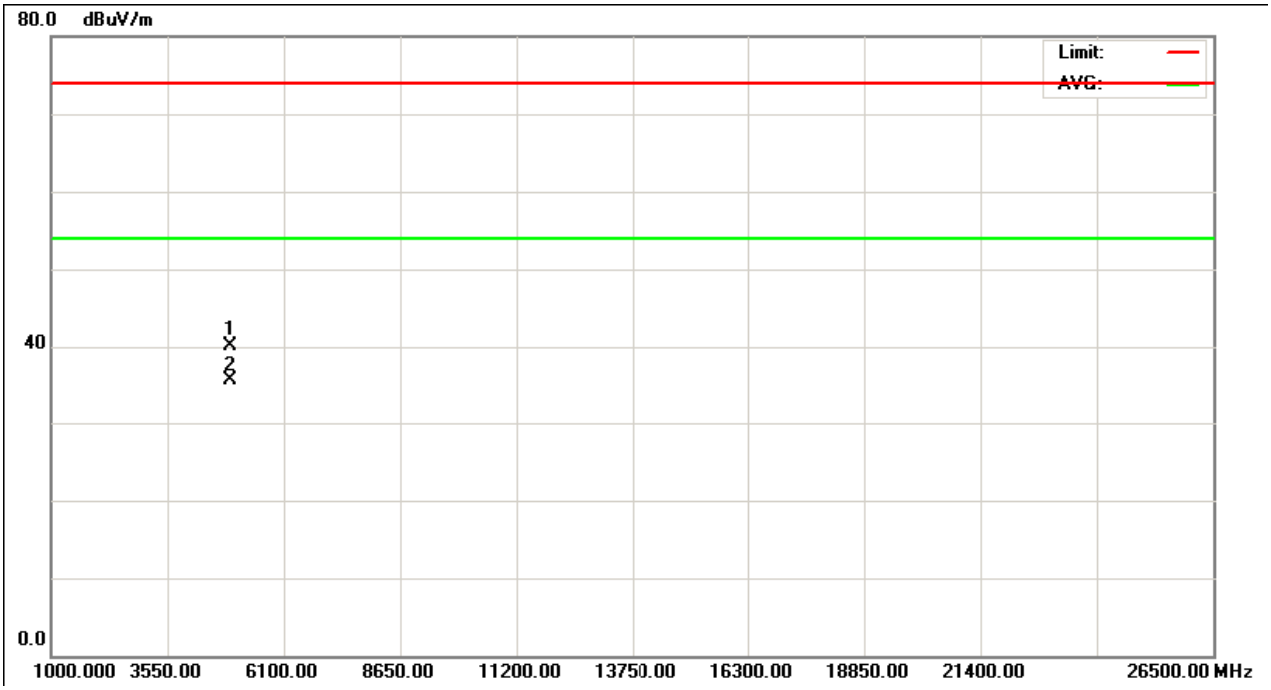
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/40M/CH09(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH09 (Port. 0 + Port. 1)		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2442.10	H	65.93	55.69	32.90	98.83	88.60			X/F
2483.50	H	21.41	11.79	33.11	54.52	44.90	74.00	54.00	X/E
4904.87	H	34.21	29.04	4.78	38.99	33.82	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

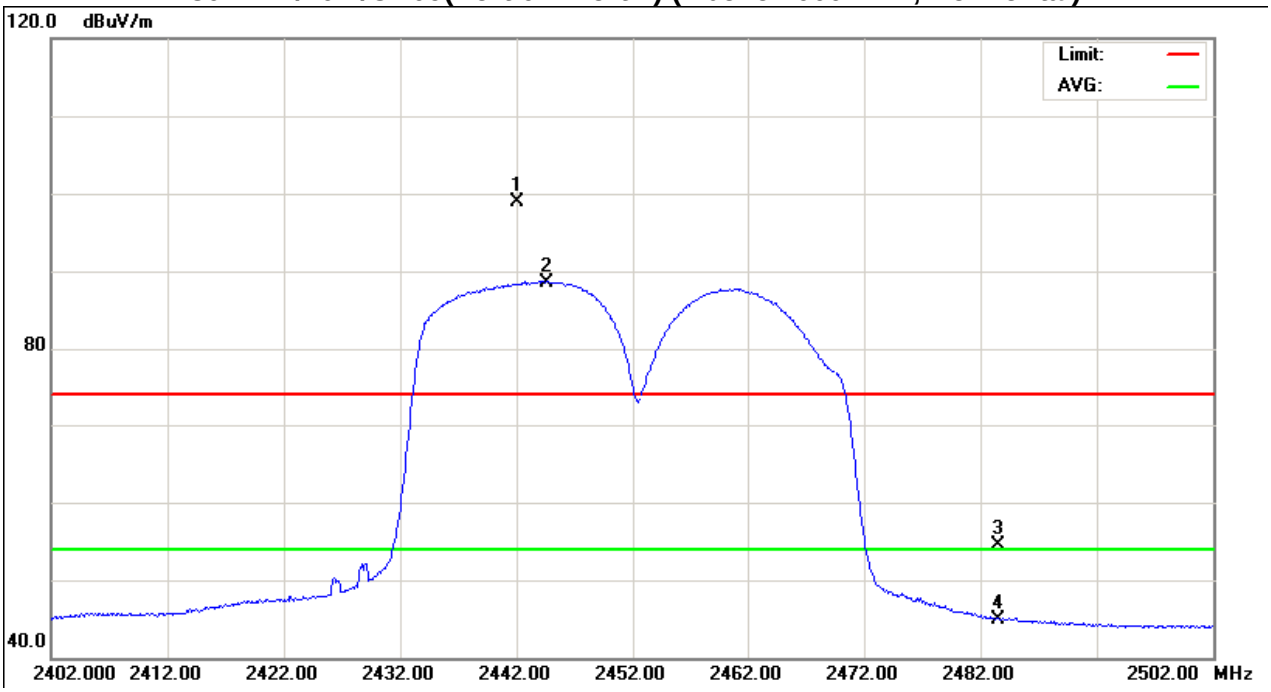
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

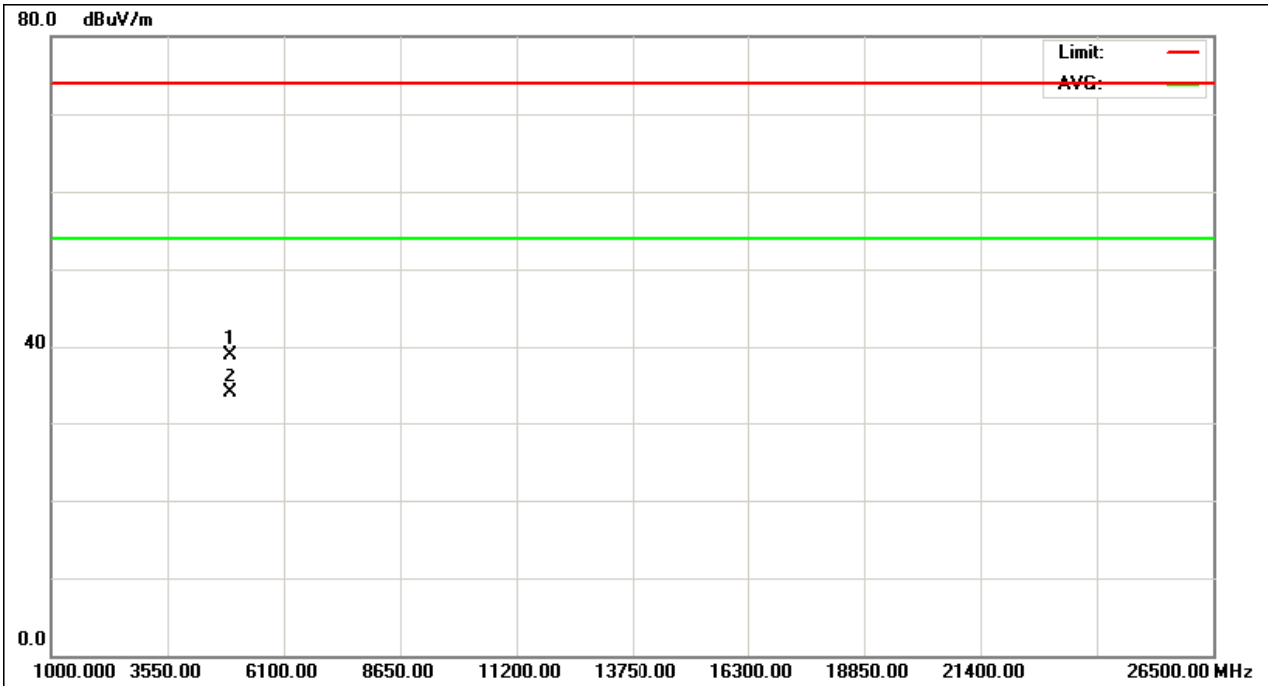
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X

802.11n/40M/CH09(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





4.2.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b(Vertical) (Port. 0 + Port. 1)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.16	14.98	32.63	56.79	47.61	74.00	54.00	X
2483.50	V	26.45	17.55	33.11	59.56	50.66	74.00	54.00	X

Remark：

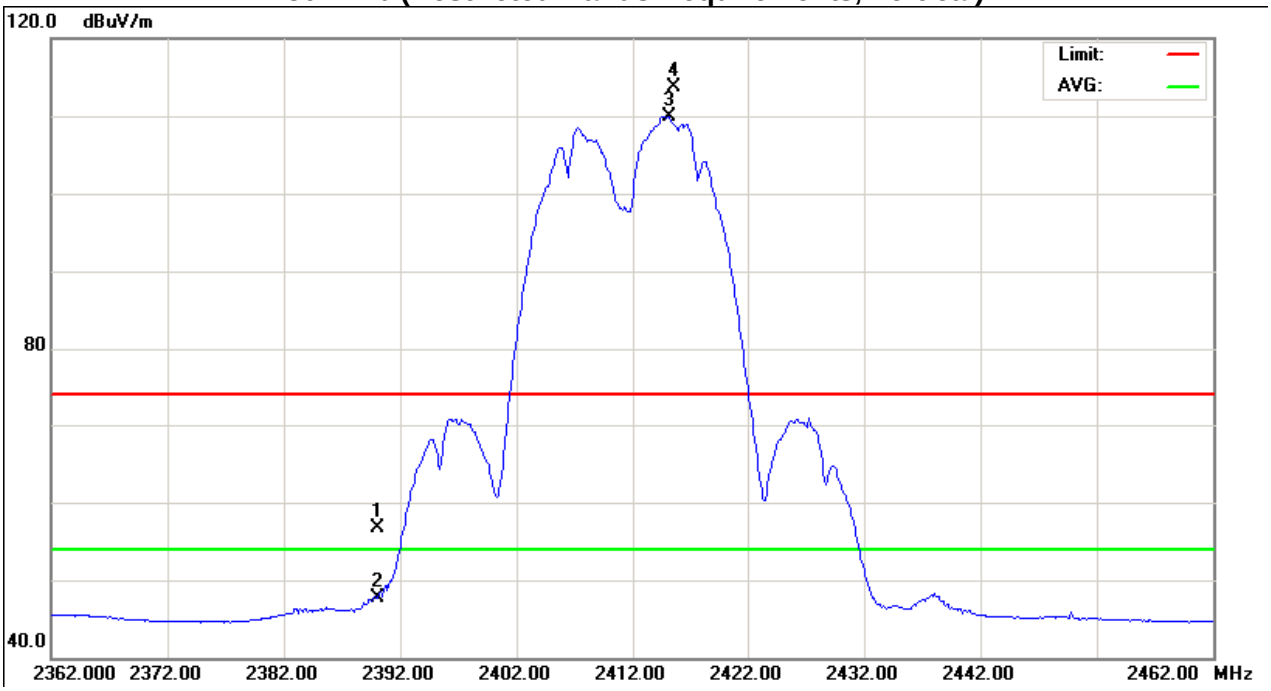
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

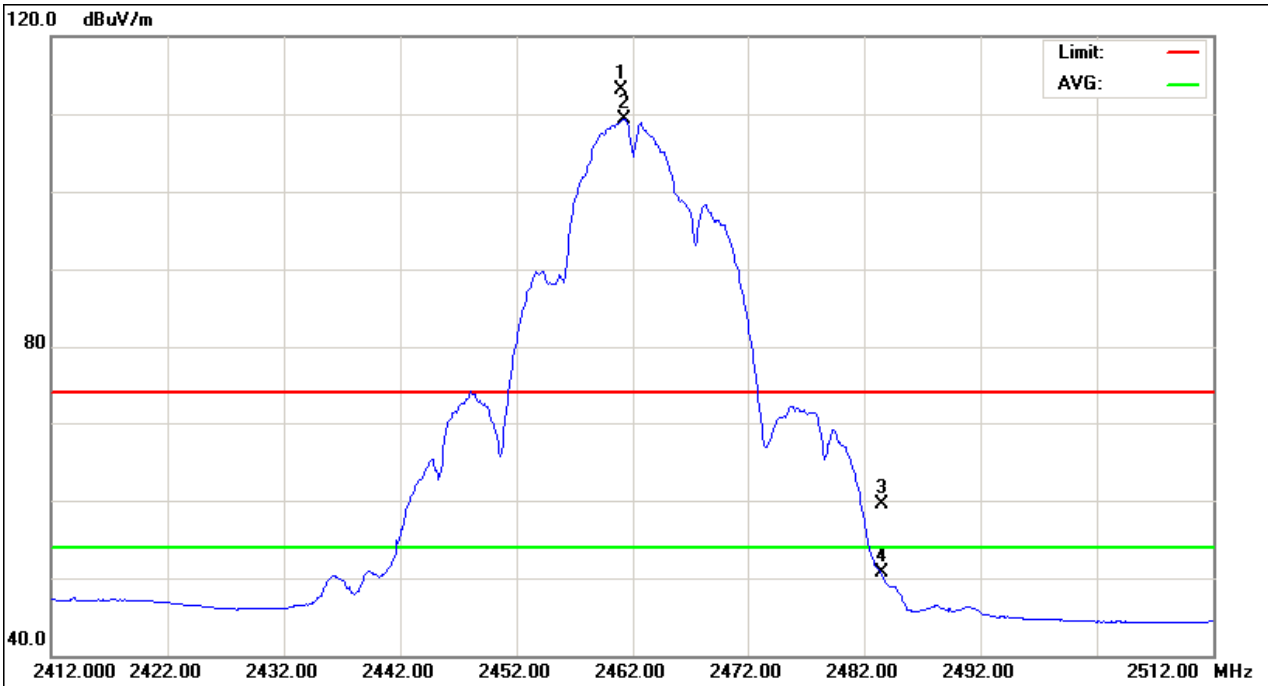
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11b (Restricted Bands Requirements, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b(Horizontal) (Port. 0 + Port. 1)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	22.23	12.52	32.63	54.86	45.15	74.00	54.00	X
2483.50	H	21.81	12.74	33.11	54.92	45.85	74.00	54.00	X

Remark：

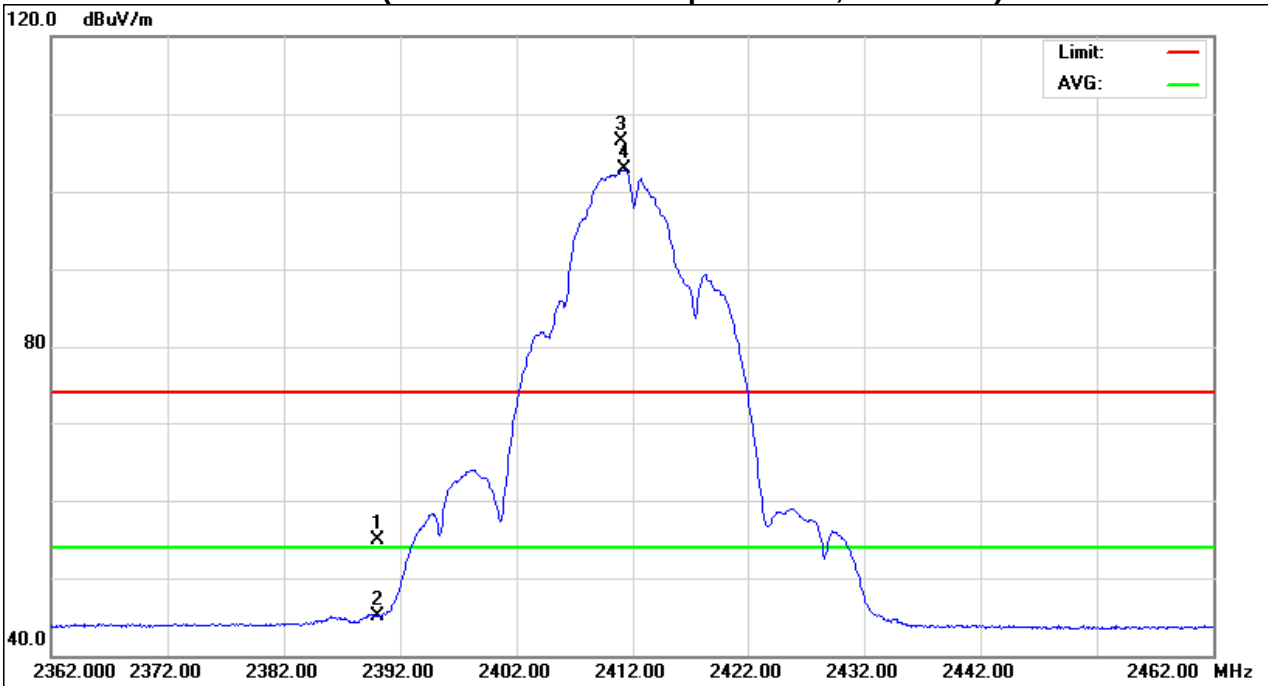
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

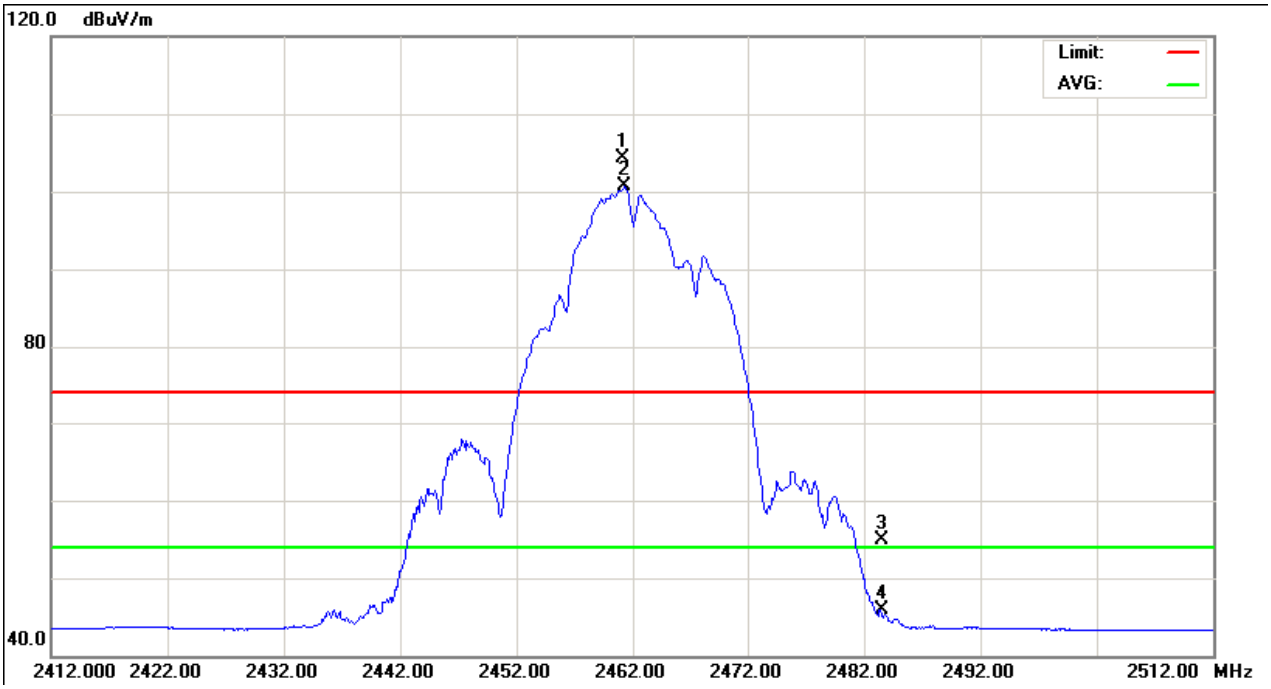
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11b (Restricted Bands Requirements, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g(Vertical) (Port. 0 + Port. 1)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	30.84	18.28	32.63	63.47	50.91	74.00	54.00	X
2483.50	V	33.05	17.84	33.11	66.16	50.95	74.00	54.00	X

Remark：

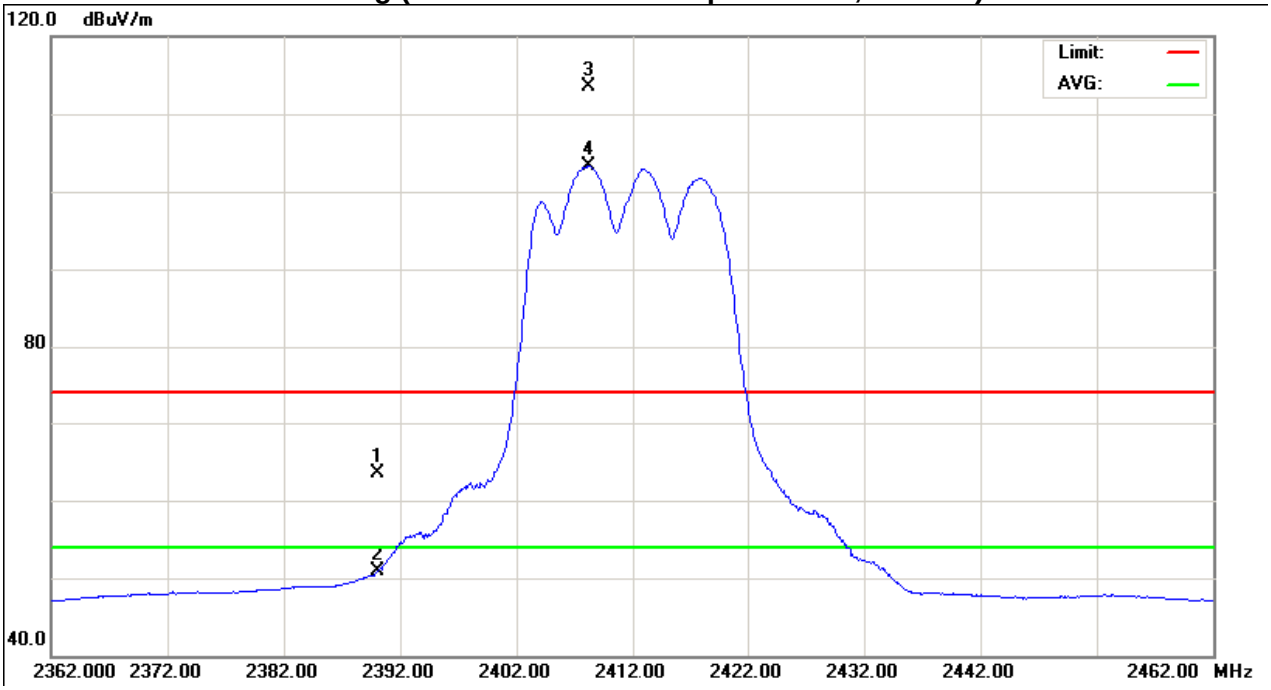
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

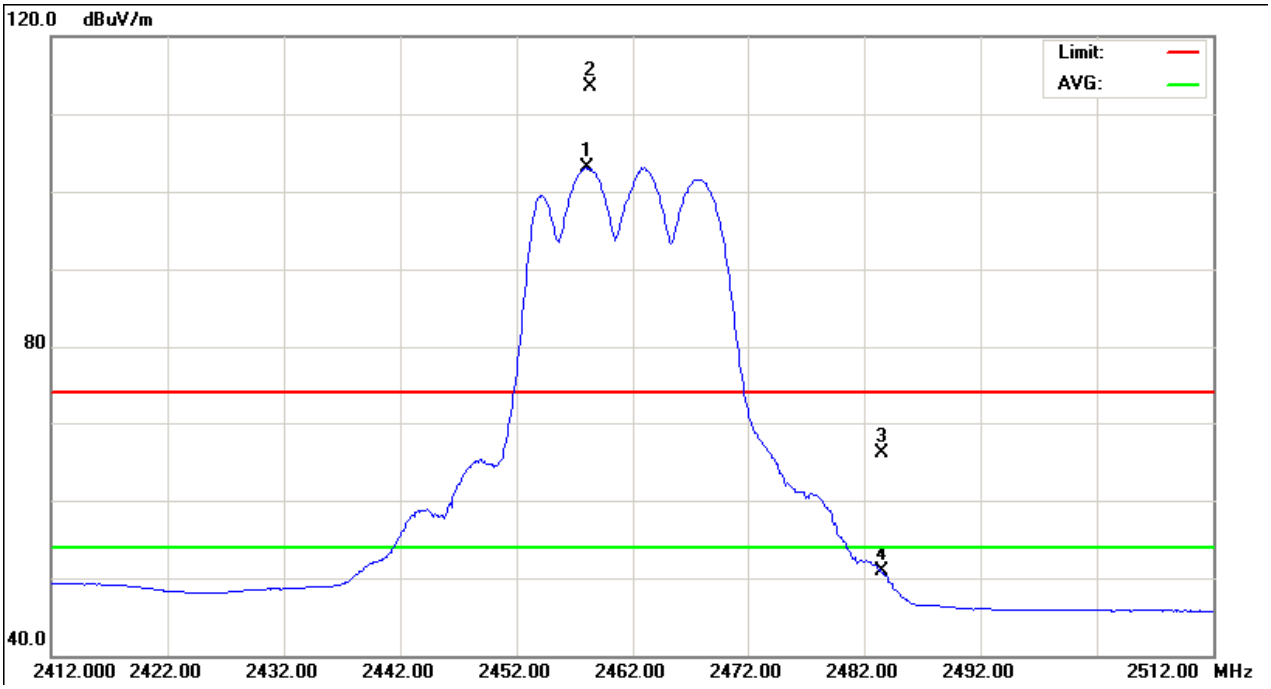
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11g (Restricted Bands Requirements, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g(Horizontal) (Port. 0 + Port. 1)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	20.49	11.06	32.63	53.12	43.69	74.00	54.00	X
2483.50	H	27.76	12.56	33.11	60.87	45.67	74.00	54.00	X

Remark：

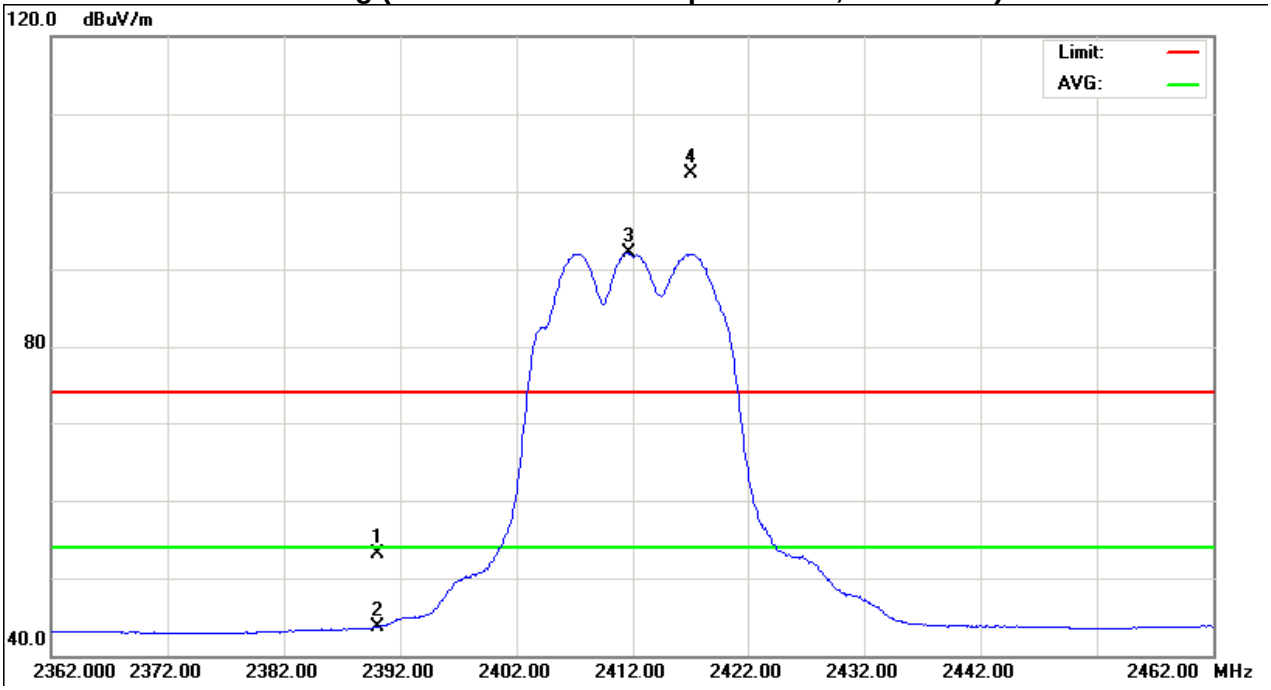
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

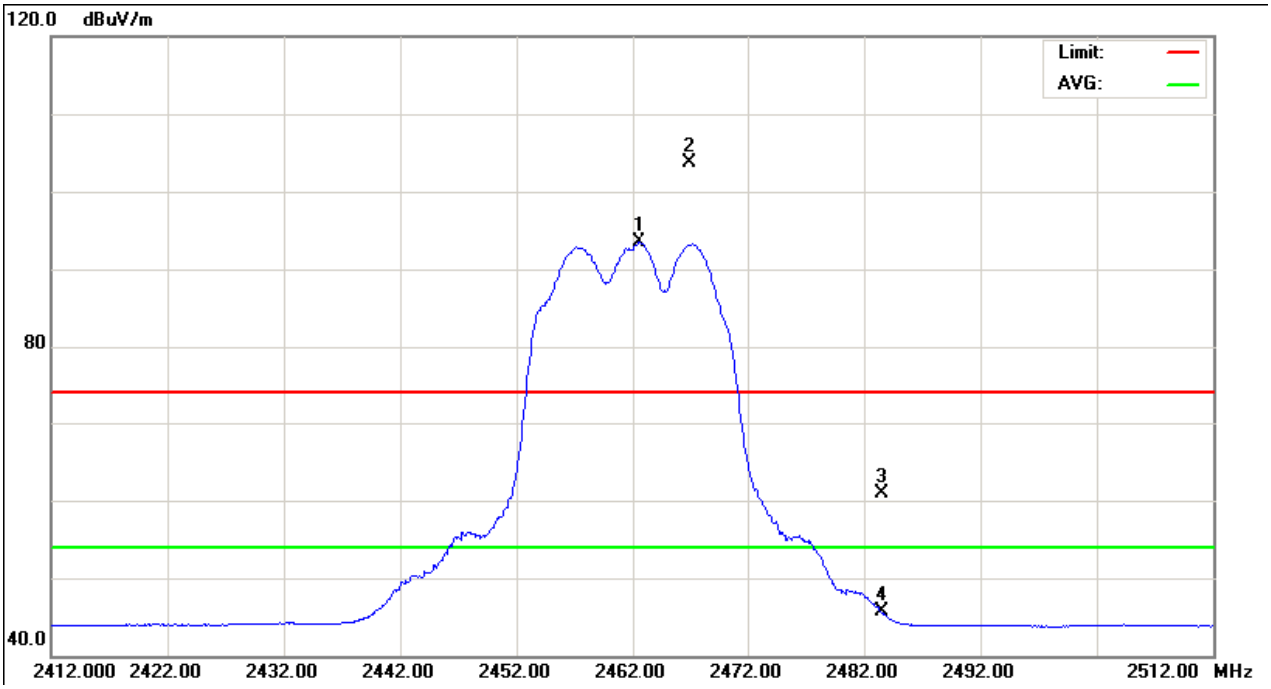
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11g (Restricted Bands Requirements, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M(Port. 0 + Port. 1) (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	35.85	18.82	32.63	68.48	51.45	74.00	54.00	X
2483.50	V	33.67	18.62	33.11	66.78	51.73	74.00	54.00	X

Remark：

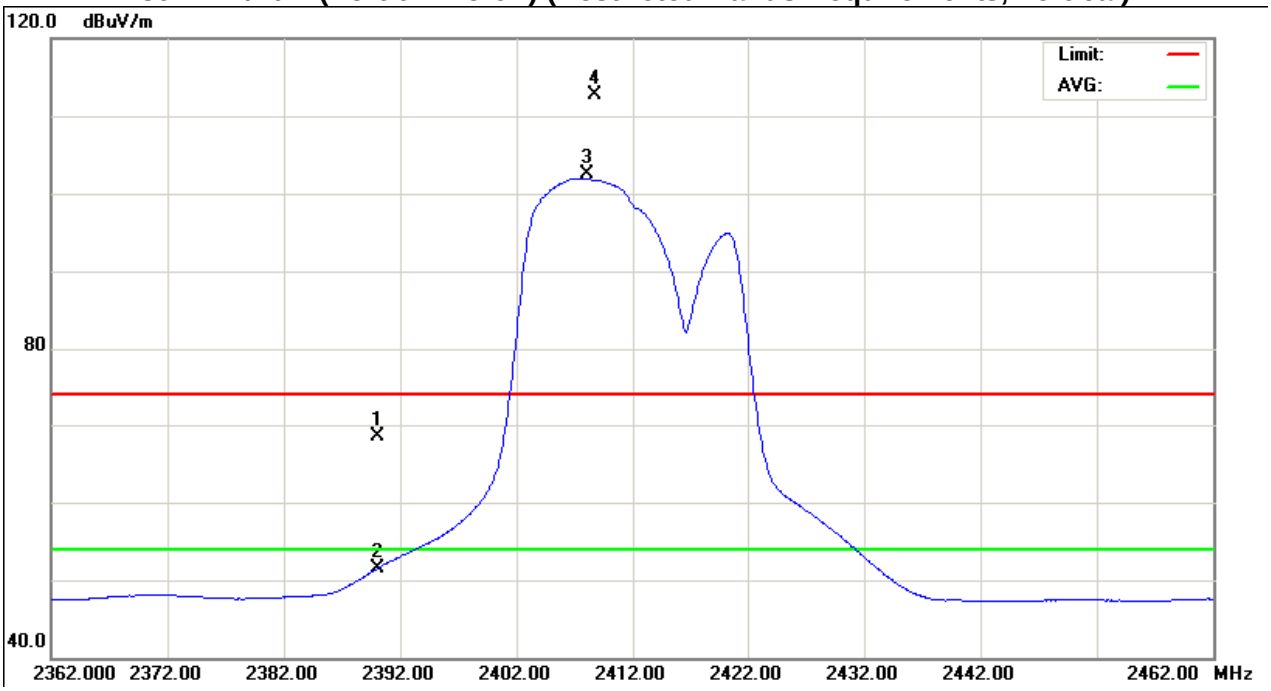
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

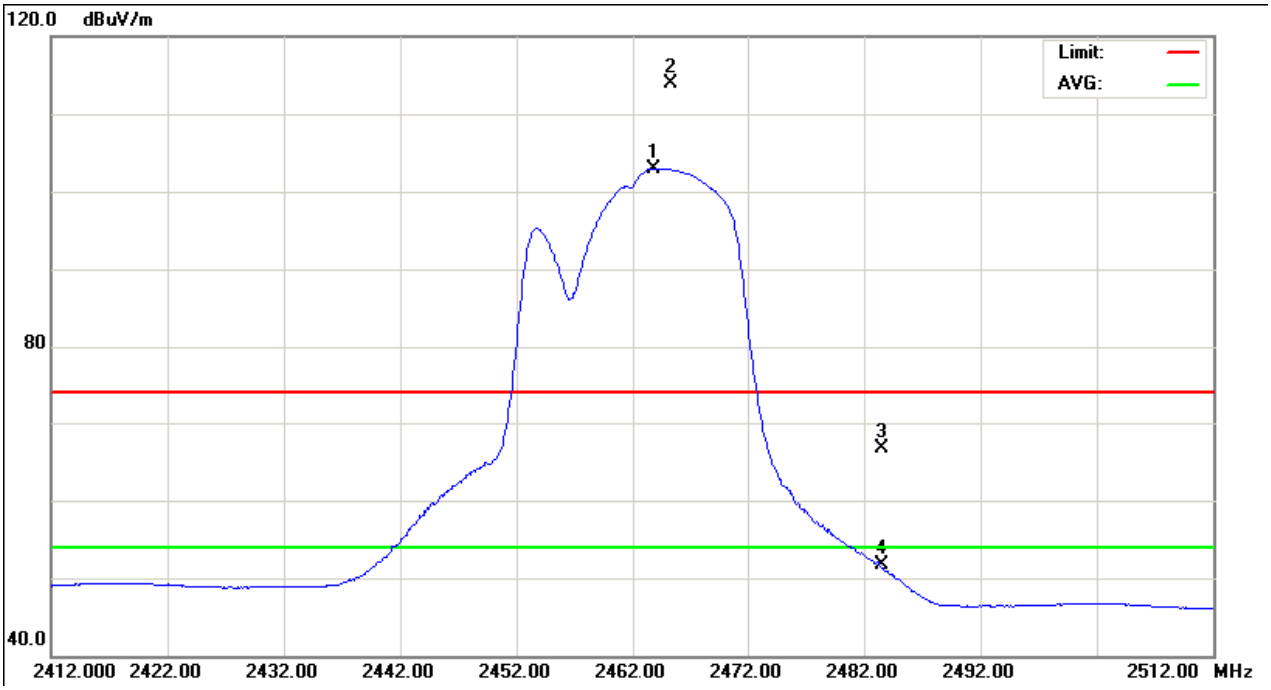
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M(Port. 0 + Port. 1) (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	23.72	12.21	32.63	56.35	44.84	74.00	54.00	X
2483.50	H	26.24	12.68	33.11	59.35	45.79	74.00	54.00	X

Remark：

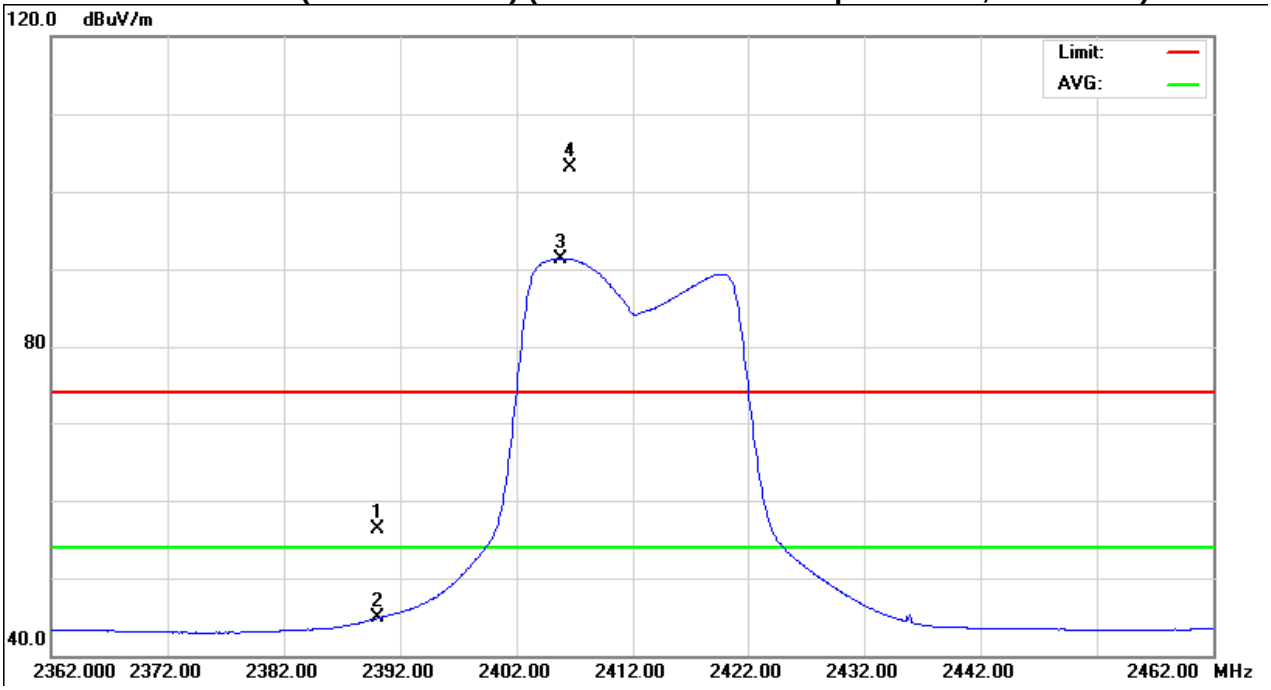
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

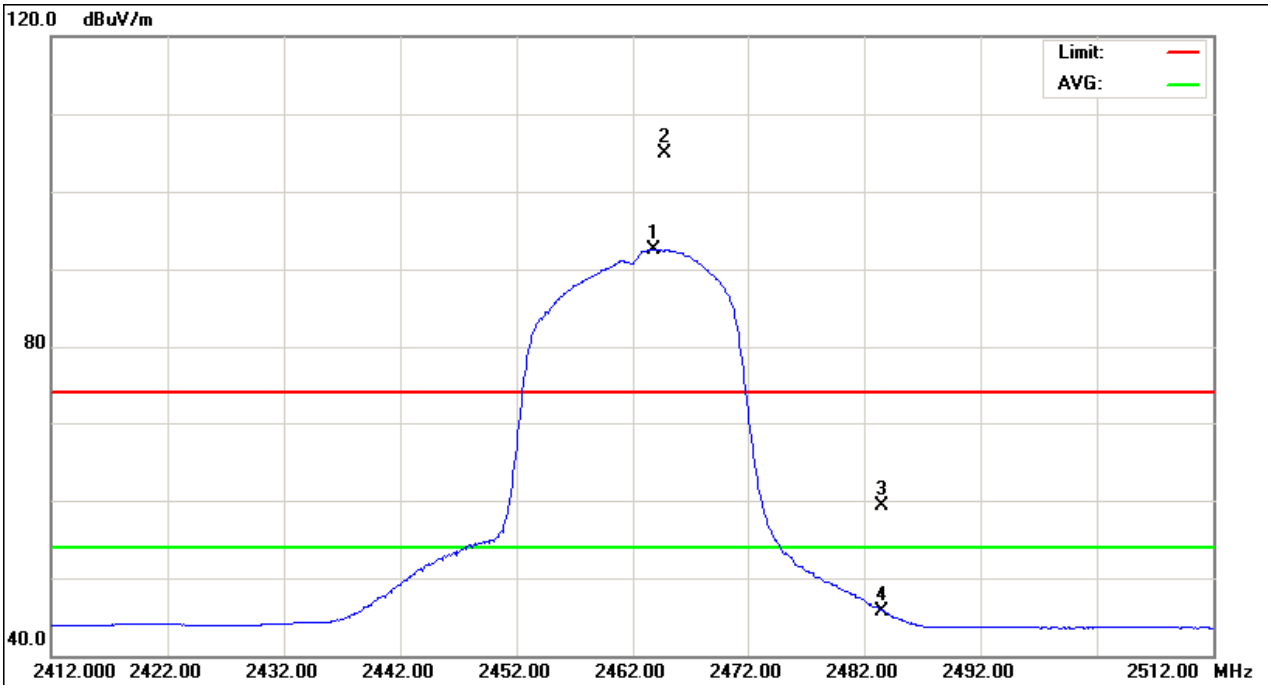
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M (Port. 0 + Port. 1) (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	32.02	18.62	32.63	64.65	51.25	74.00	54.00	X
2483.50	V	29.91	16.86	33.11	63.02	49.97	74.00	54.00	X

Remark：

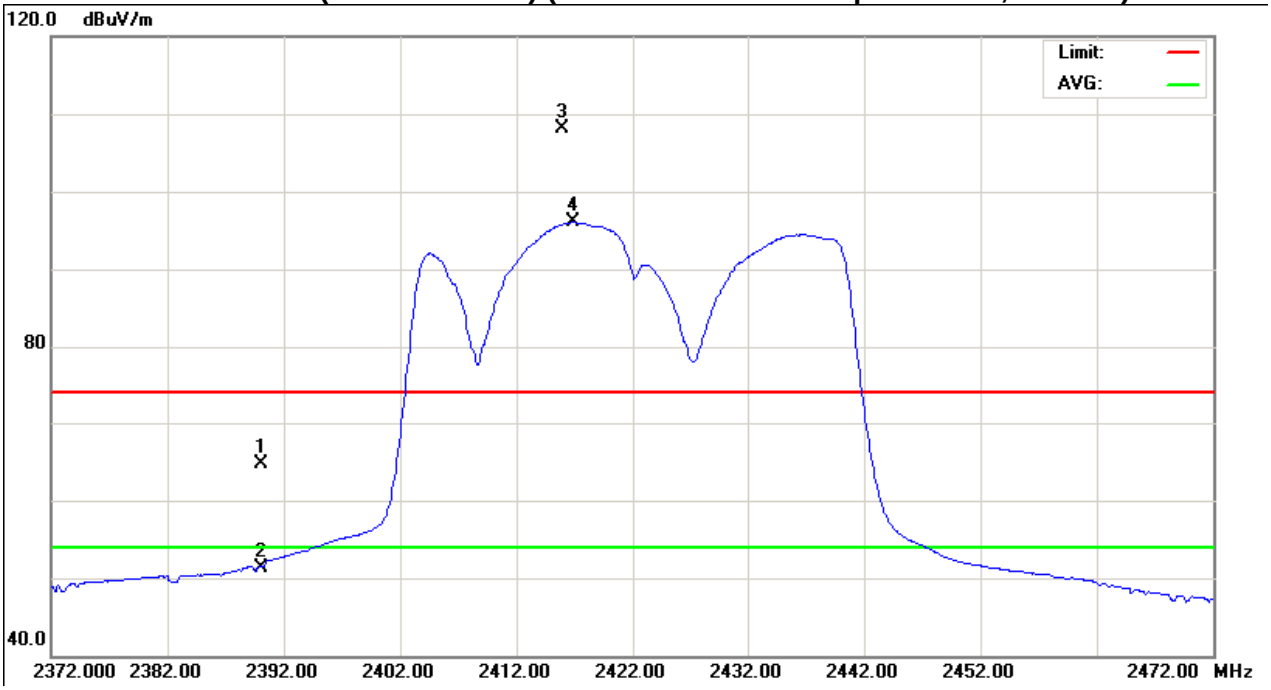
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

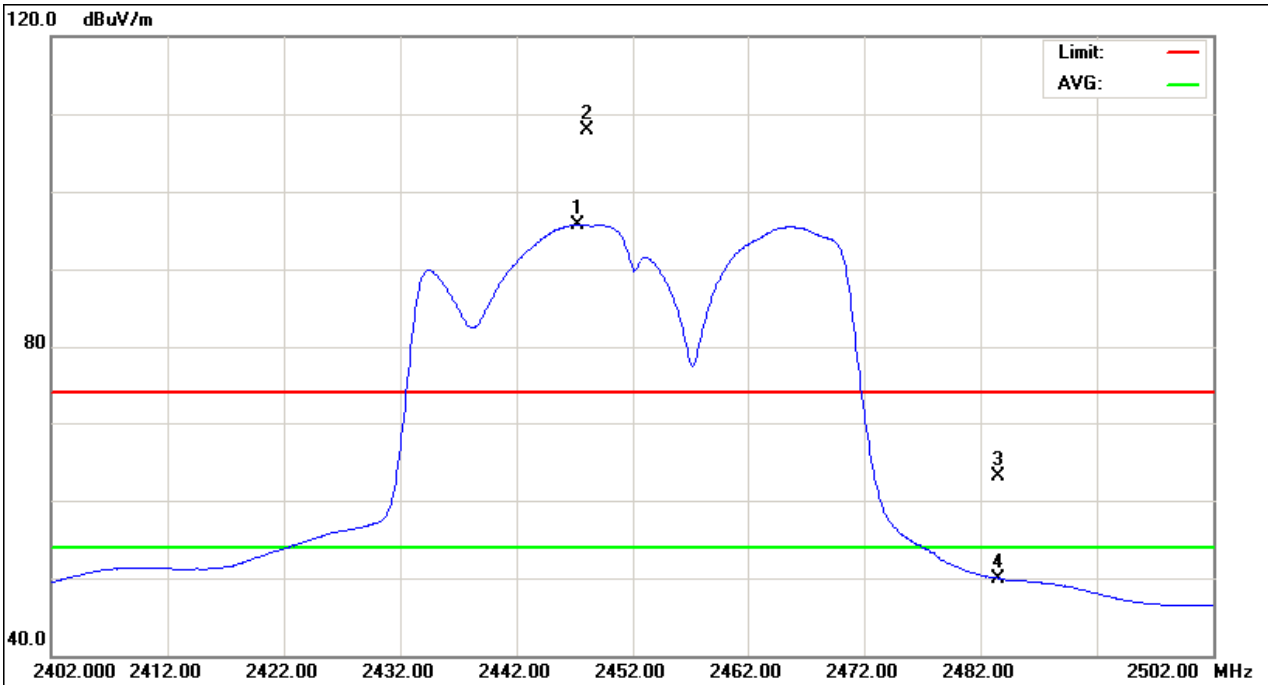
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M(Port. 0 + Port. 1) (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	24.46	13.33	32.63	57.09	45.96	74.00	54.00	X
2483.50	H	21.41	11.79	33.11	54.52	44.90	74.00	54.00	X

Remark：

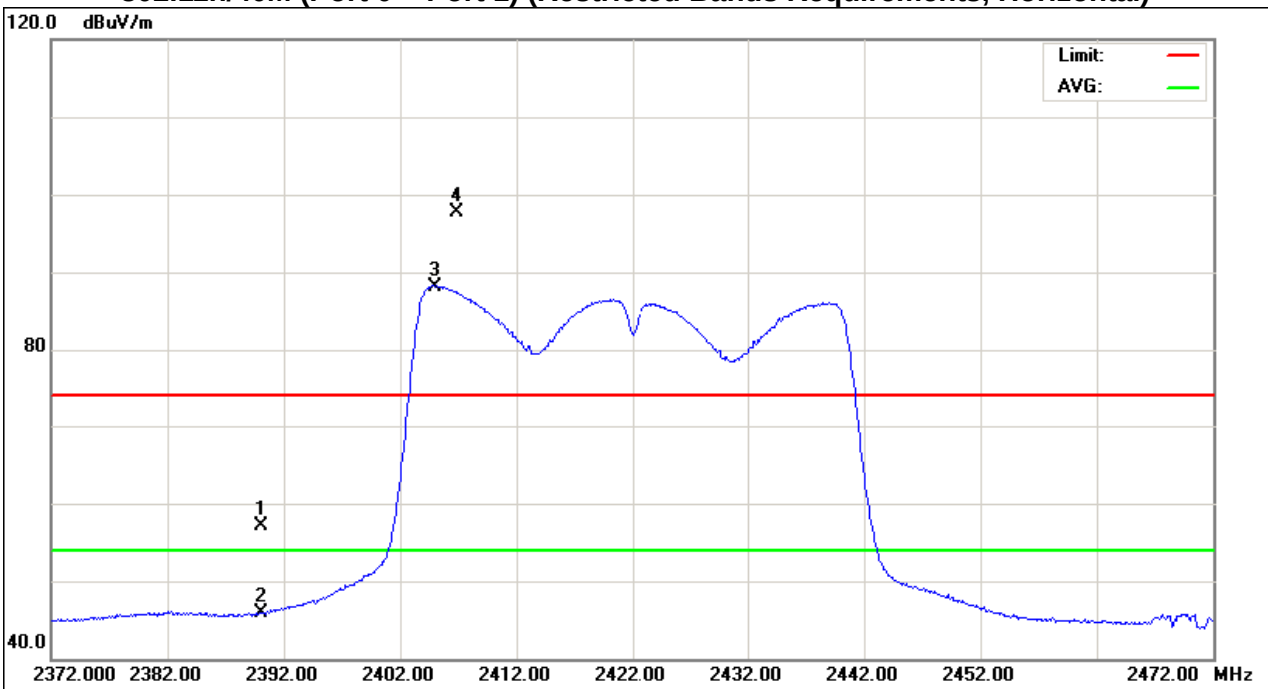
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

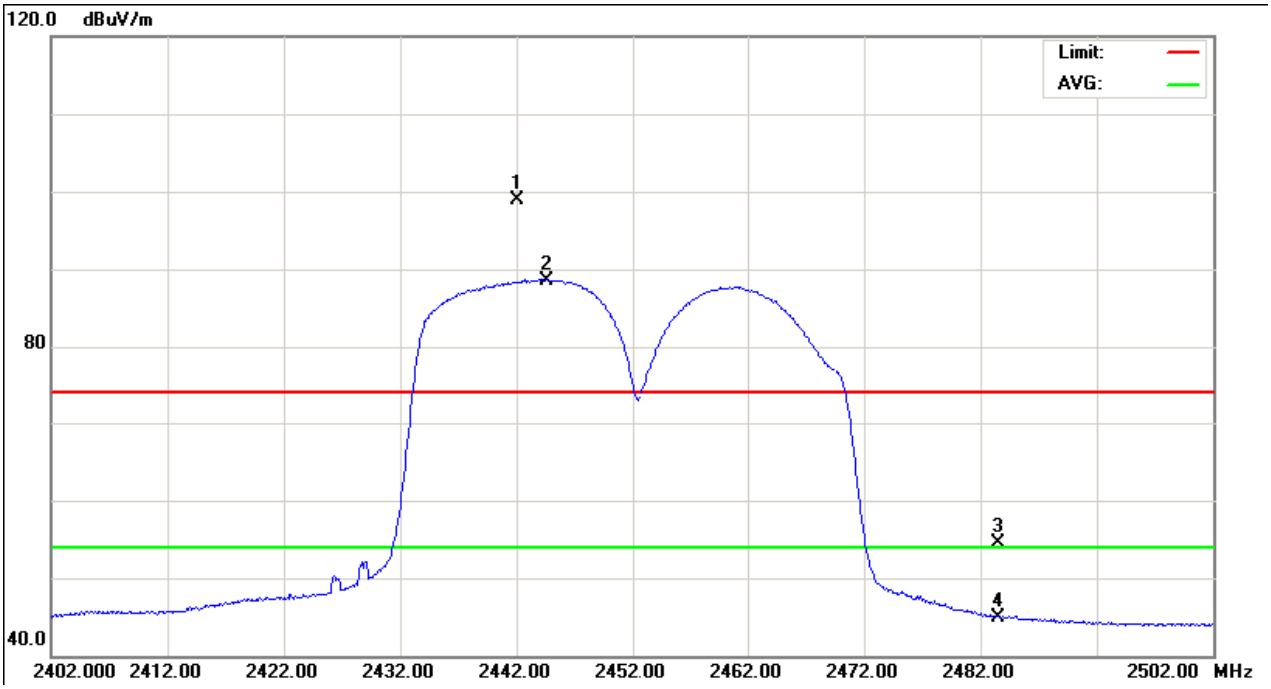
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





5. BANDWITH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

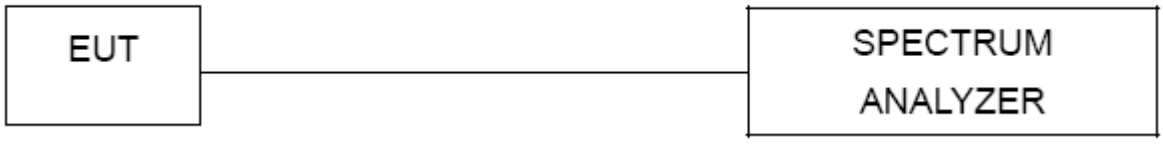
5.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

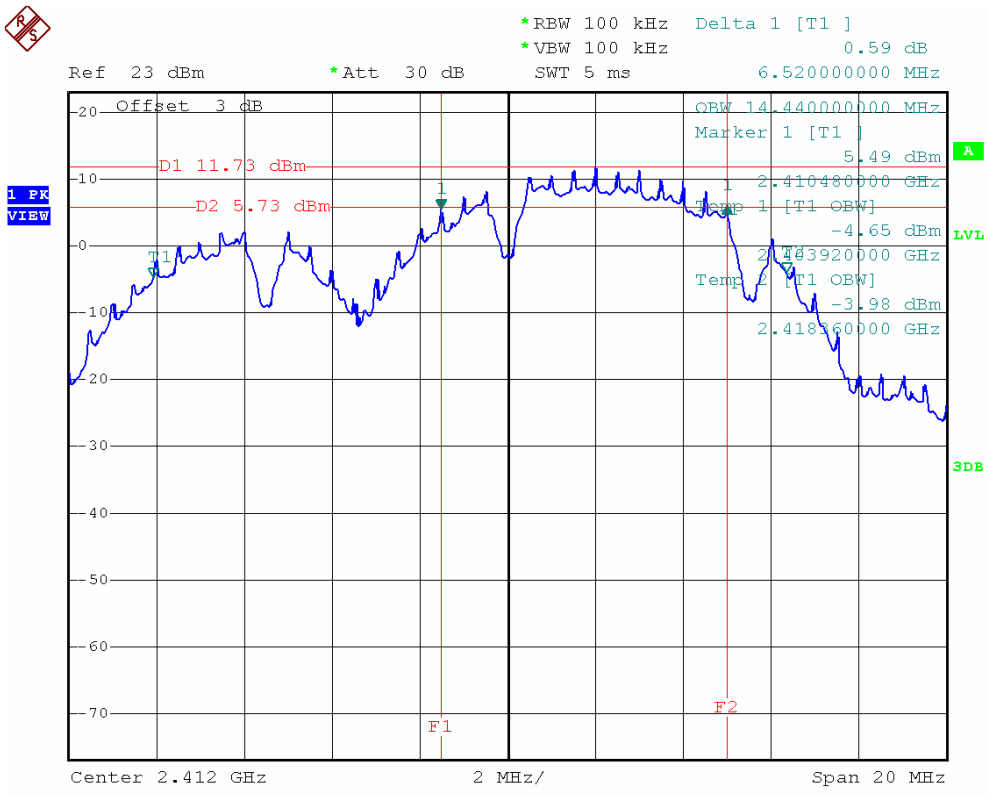
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.6 TEST RESULTS

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH06, CH11 (Port. 0 + Port. 1)		

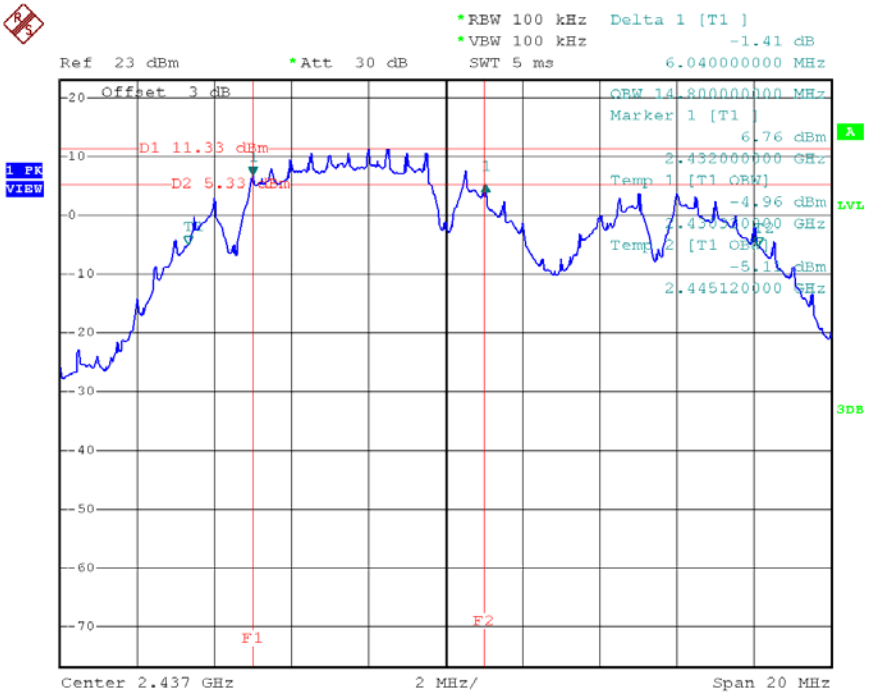
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	6.52	>=500KHz
CH06	2437	6.04	>=500KHz
CH11	2462	5.52	>=500KHz

CH01



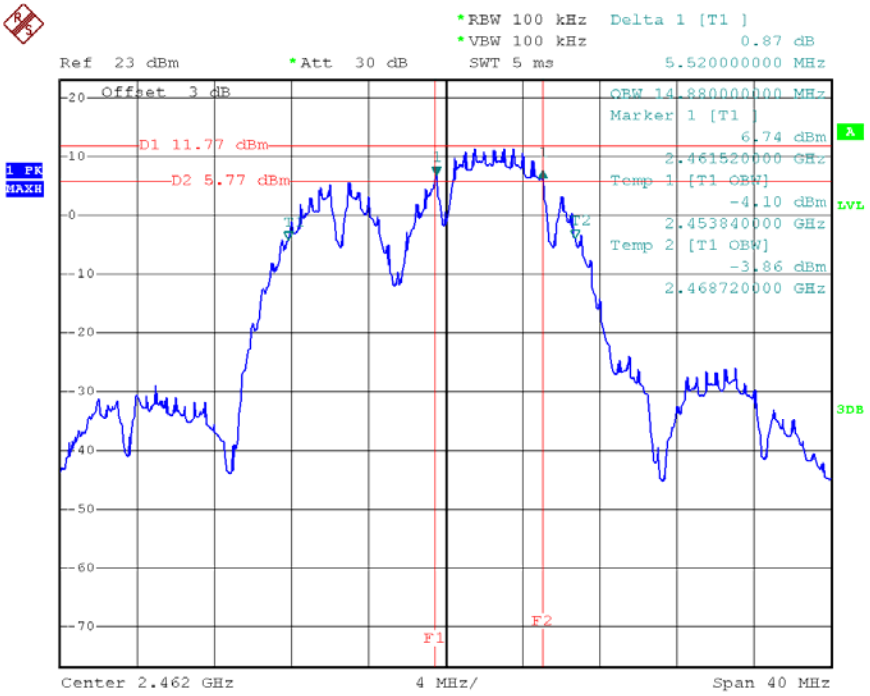
Date: 11.NOV.2009 03:15:36

CH06



Date: 11.NOV.2009 03:07:24

CH11

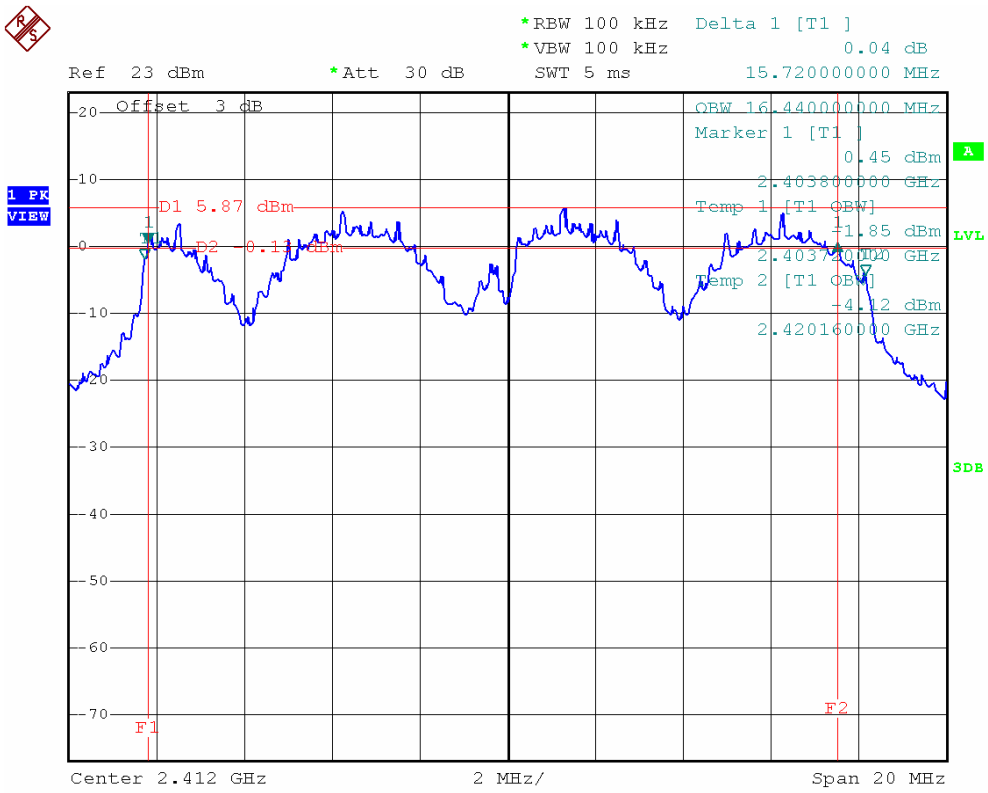


Date: 11.NOV.2009 03:01:45

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH06, CH11 (Port. 0 + Port. 1)		

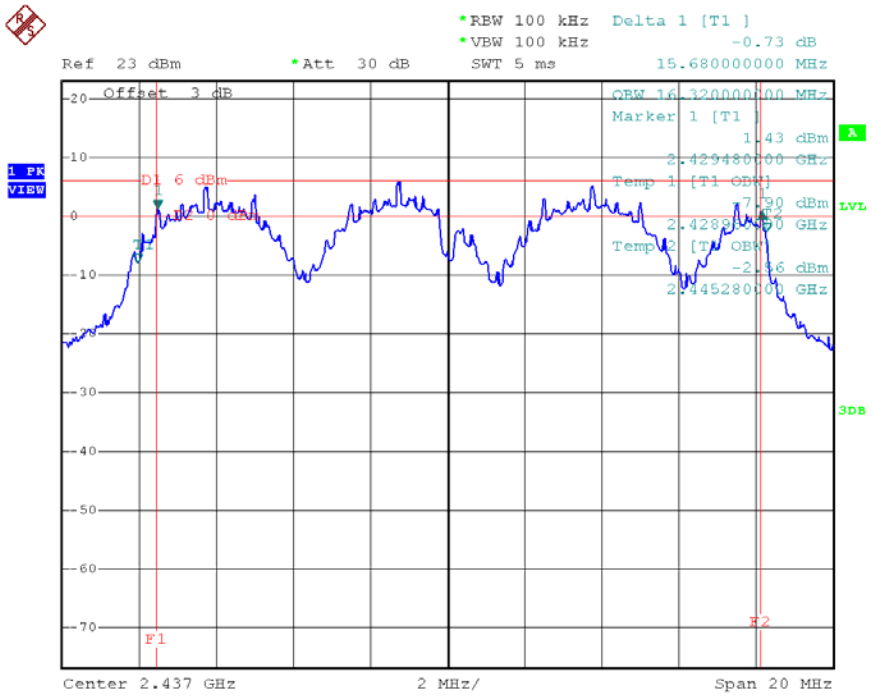
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	15.72	>=500KHz
CH06	2437	15.68	>=500KHz
CH11	2462	15.60	>=500KHz

CH01



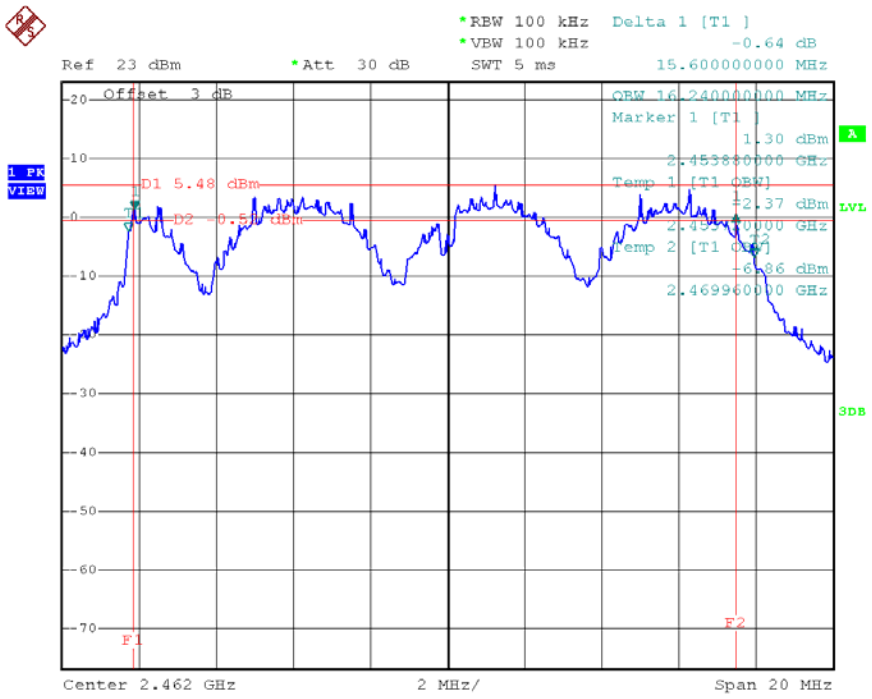
Date: 11.NOV.2009 02:34:27

CH06



Date: 11.NOV.2009 02:36:02

CH11

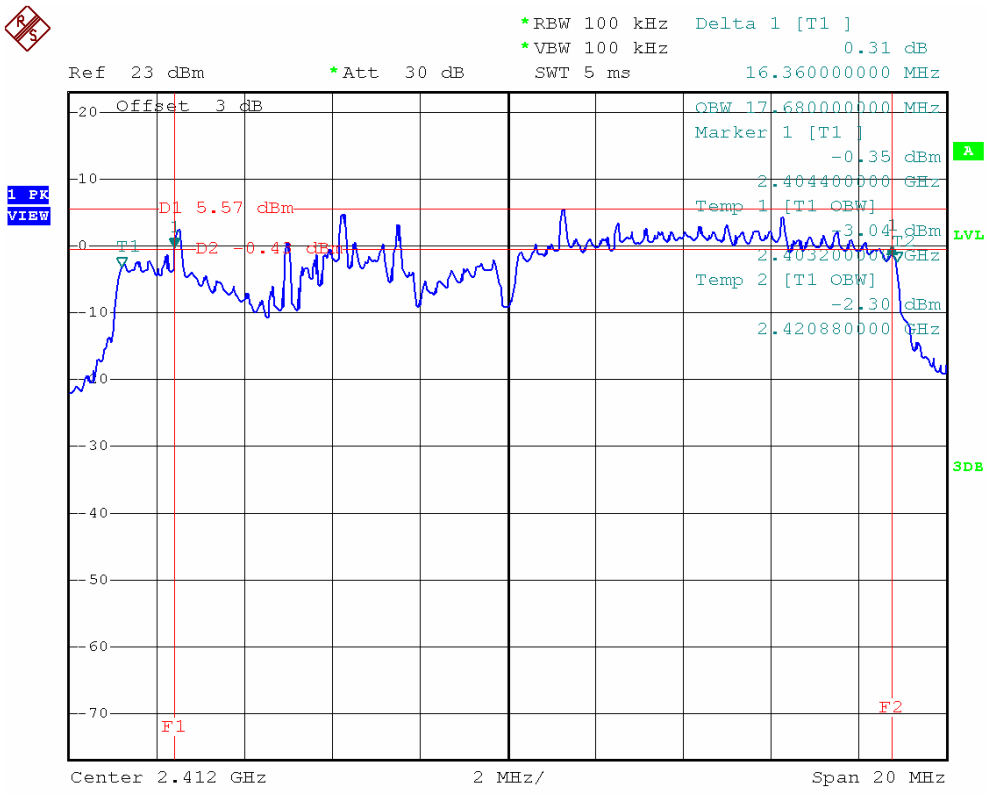


Date: 11.NOV.2009 02:44:24

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH06, CH11 (Port. 0 + Port. 1)		

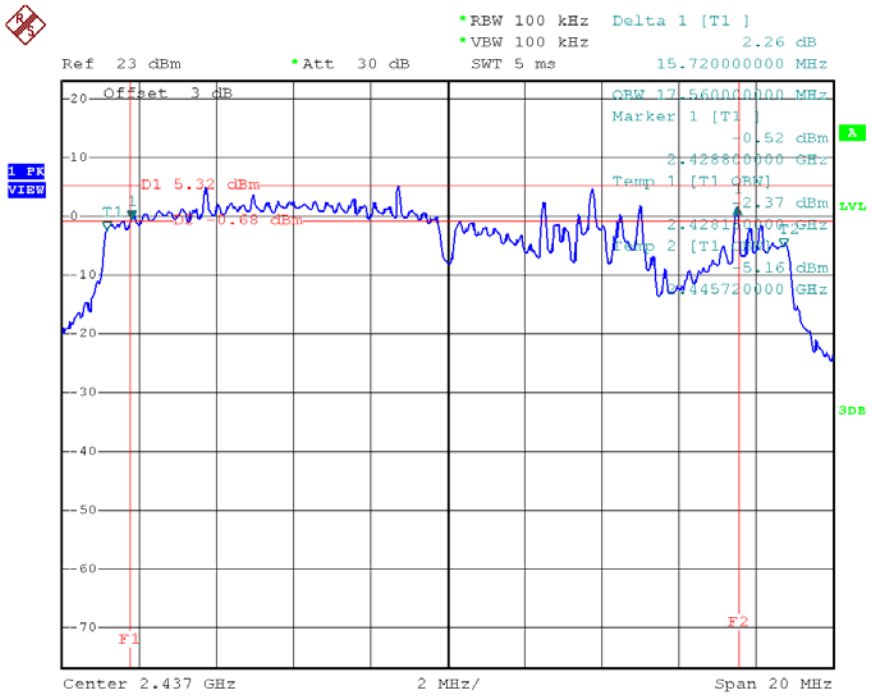
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.36	>=500KHz
CH06	2437	15.72	>=500KHz
CH11	2462	15.96	>=500KHz

CH01



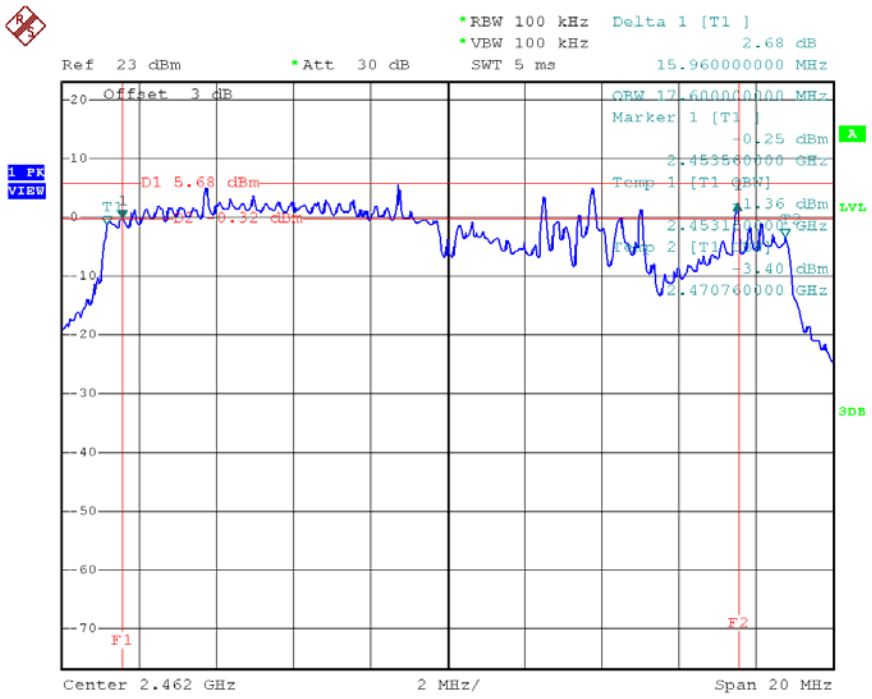
Date: 11.NOV.2009 03:23:15

CH06



Date: 11.NOV.2009 03:29:17

CH11

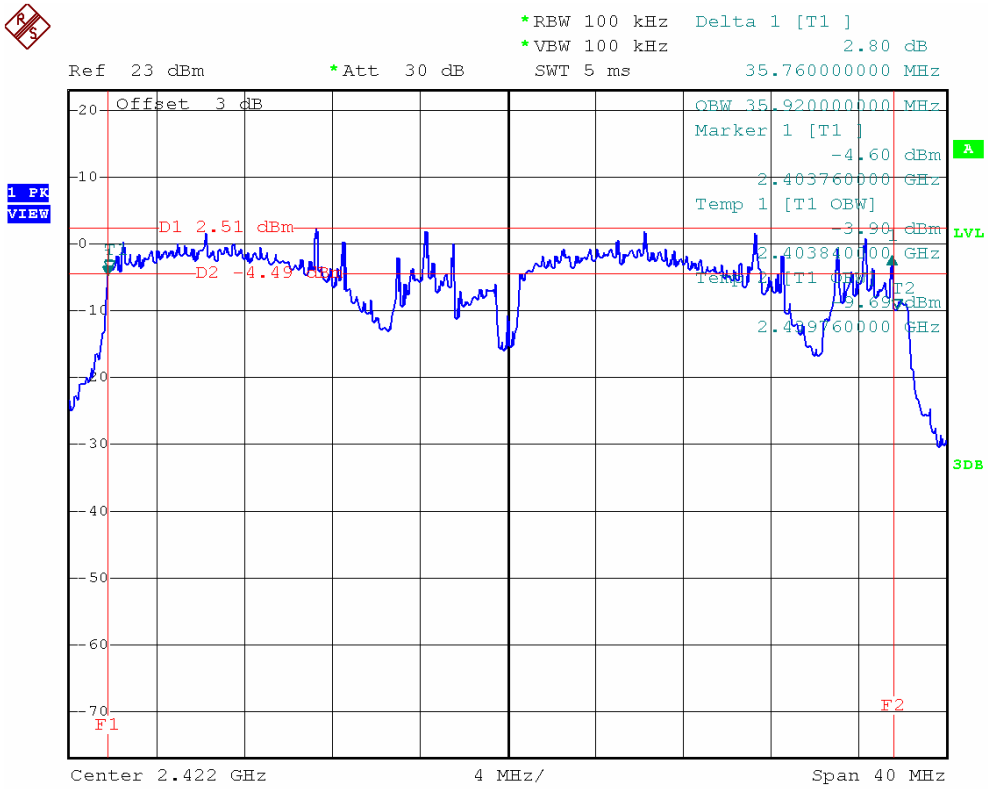


Date: 11.NOV.2009 06:06:19

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH06, CH09 (Port. 0 + Port. 1)		

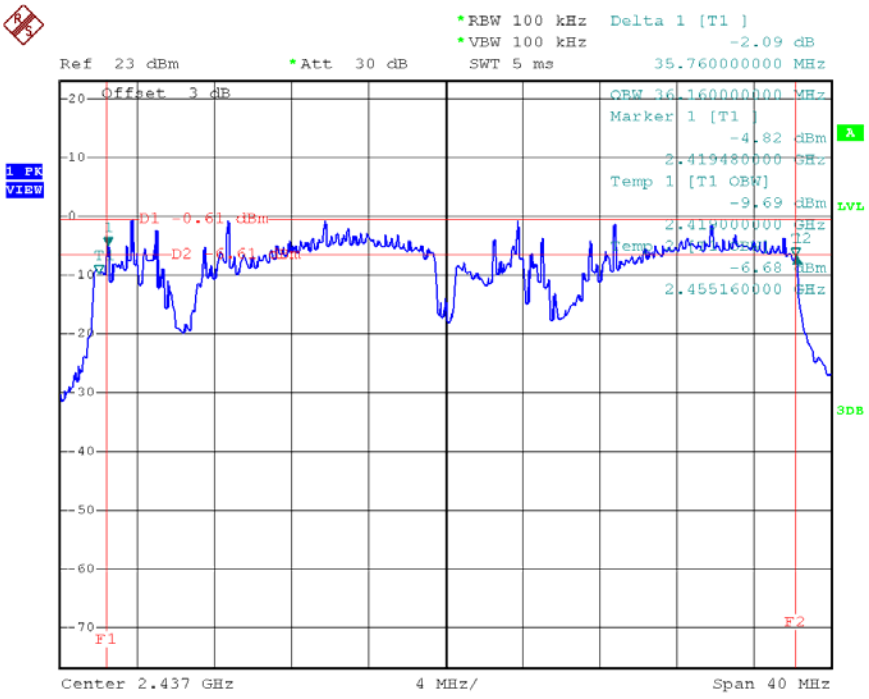
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	35.76	>=500KHz
CH06	2437	35.76	>=500KHz
CH09	2452	35.68	>=500KHz

CH03



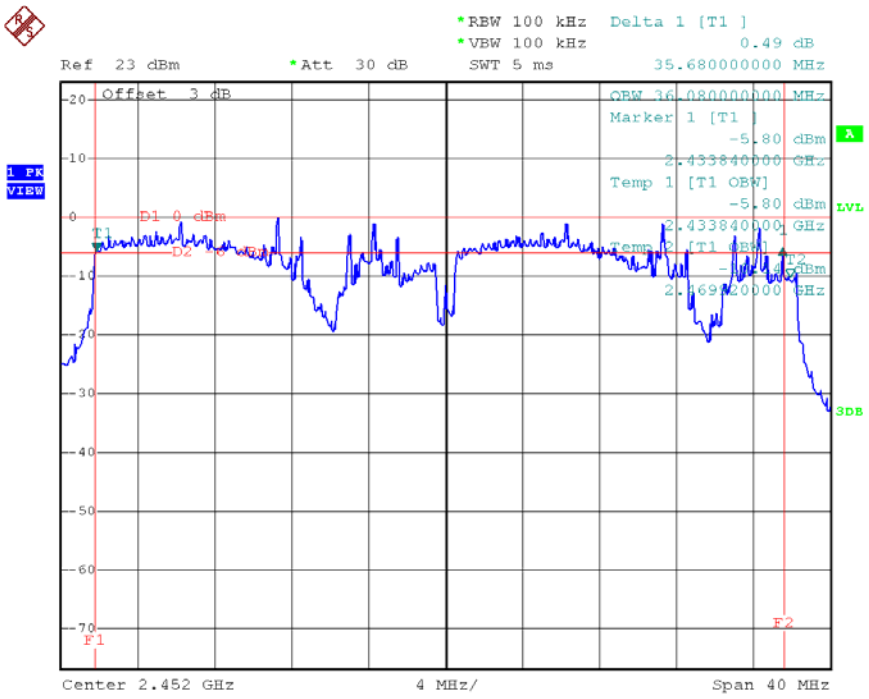
Date: 11.NOV.2009 06:14:13

CH06



Date: 11.NOV.2009 06:24:25

CH09



Date: 11.NOV.2009 06:29:33

6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 10, 2010
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

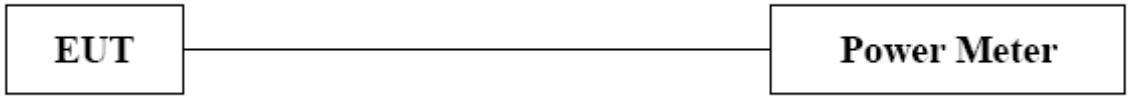
6.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.6 TEST RESULTS

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH06, CH11 (Port. 0 + Port. 1)		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	15.20	0.0331	30	1
CH06	2437	15.59	0.0362	30	1
CH11	2462	15.57	0.0361	30	1

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	17.12	0.0515	30	1
CH06	2437	16.81	0.0479	30	1
CH11	2462	16.07	0.0406	30	1

Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	19.28	0.0846	30	1
CH06	2437	19.25	0.0842	30	1
CH11	2462	18.84	0.0765	30	1

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=2.0 dBi.**

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH06, CH11 (Port. 0 + Port. 1)		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	19.28	0.0847	30	1
CH06	2437	19.34	0.0859	30	1
CH11	2462	18.47	0.0703	30	1

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	19.15	0.0822	30	1
CH06	2437	19.17	0.0826	30	1
CH11	2462	18.74	0.0748	30	1

Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	22.23	0.1669	30	1
CH06	2437	22.27	0.1685	30	1
CH11	2462	21.62	0.1451	30	1

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=2.0 dBi.**

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH06, CH11 (Port. 0 + Port. 1)		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	19.48	0.0887	30	1
CH06	2437	18.89	0.0774	30	1
CH11	2462	18.48	0.0705	30	1

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	18.92	0.0779	30	1
CH06	2437	18.89	0.0774	30	1
CH11	2462	18.79	0.0757	30	1

Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	22.22	0.1667	30	1
CH06	2437	21.90	0.1549	30	1
CH11	2462	21.65	0.1462	30	1

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=2.0 dBi.**

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH06, CH09 (Port. 0 + Port. 1)		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH03	2422	16.11	0.0408	30	1
CH06	2437	16.07	0.0405	30	1
CH09	2452	16.20	0.0417	30	1

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH03	2422	16.86	0.0485	30	1
CH06	2437	16.60	0.0457	30	1
CH09	2452	16.57	0.0454	30	1

Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH03	2422	19.51	0.0894	30	1
CH06	2437	19.35	0.0862	30	1
CH09	2452	19.40	0.0871	30	1

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=2.0 dBi.**

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	20dB less than the peak value of fundamental frequency	30-25000	PASS

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

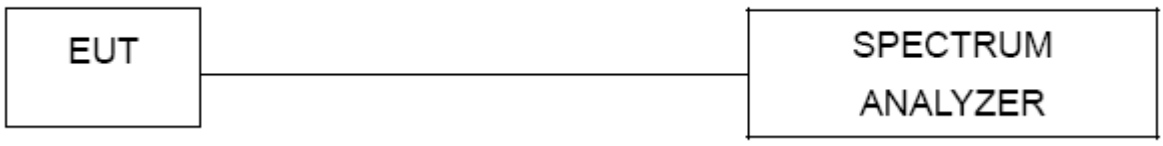
7.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

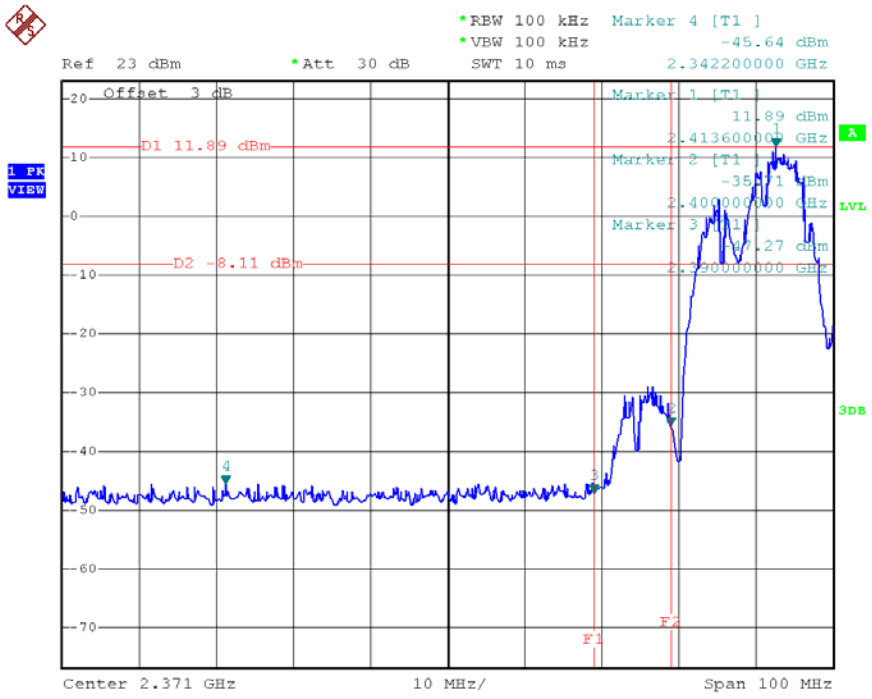
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.6 TEST RESULTS

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH11 (Port. 0 + Port. 1)		

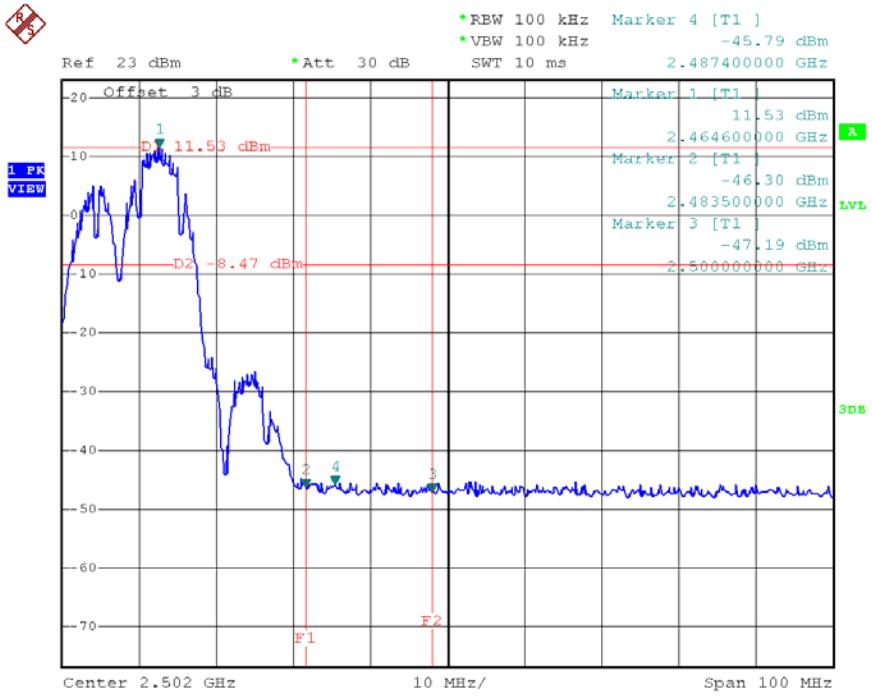
Channel of Worst Data: CH1			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2342.20	-45.64	2487.40	-45.79
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



Date: 11.NOV.2009 03:16:53

CH11

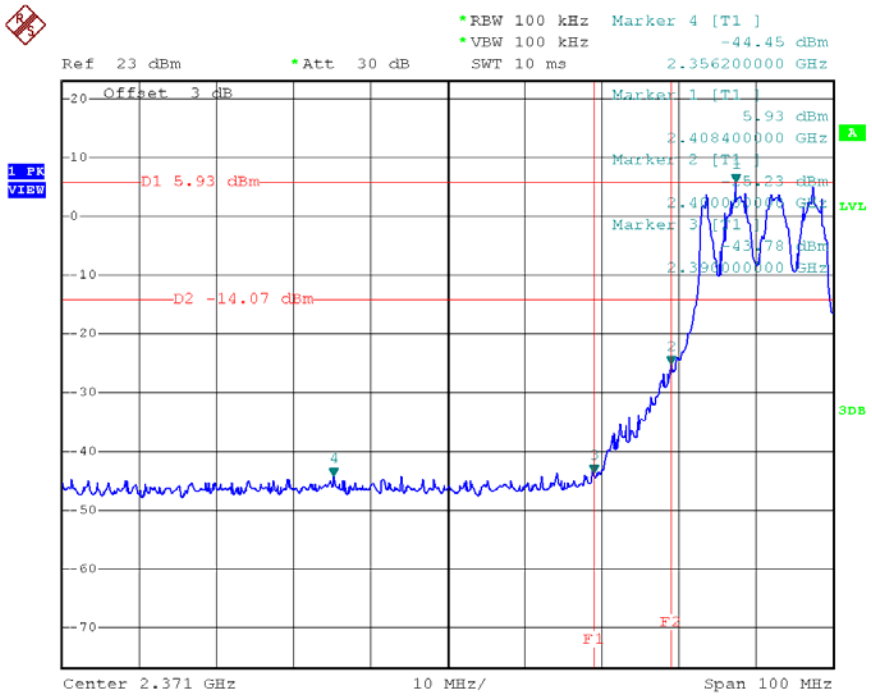


Date: 11.NOV.2009 02:51:04

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH11 (Port. 0 + Port. 1)		

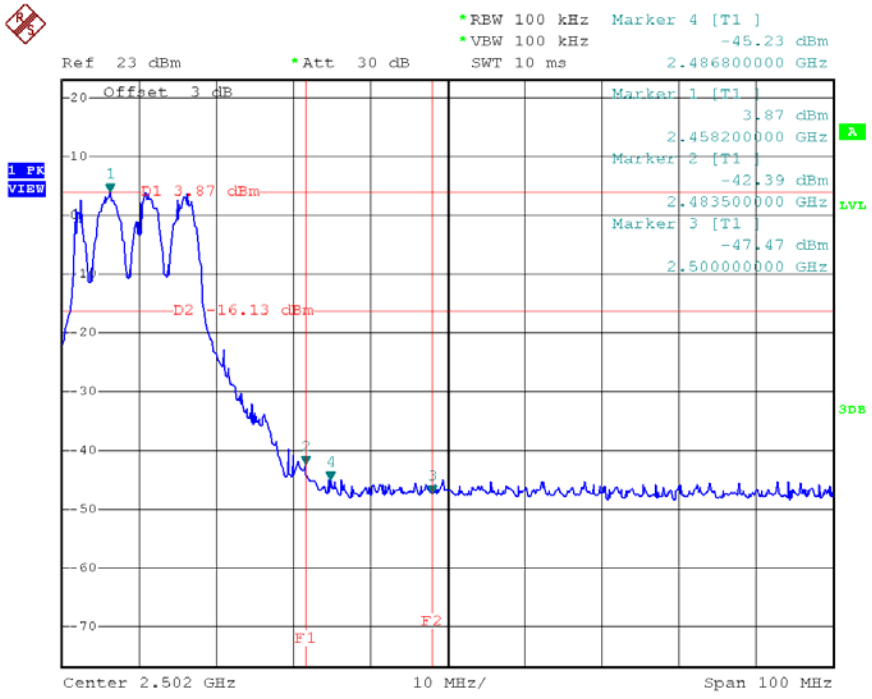
Channel of Worst Data: CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2356.20	-44.45	2483.50	-42.39
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



Date: 11.NOV.2009 02:32:03

CH11

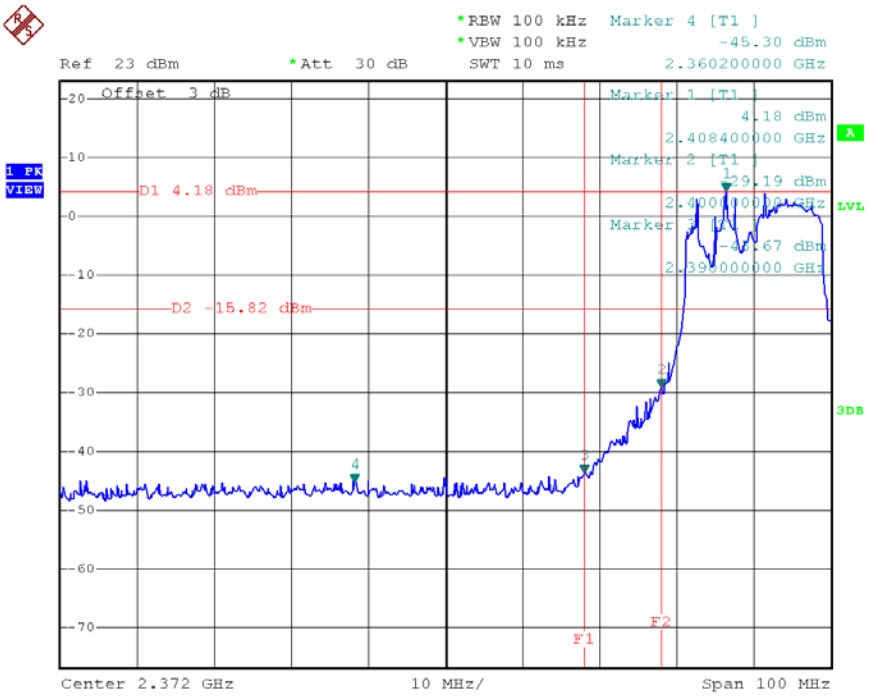


Date: 11.NOV.2009 02:45:52

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH11 (Port. 0 + Port. 1)		

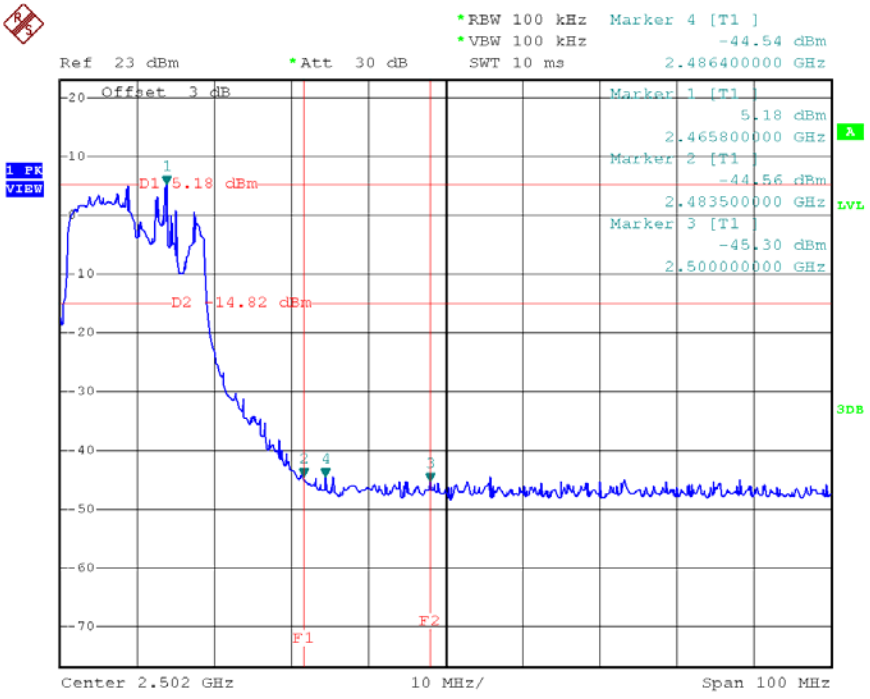
Channel of Worst Data: CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2360.20	-45.30	2486.40	-44.54
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



Date: 11.NOV.2009 03:25:39

CH11

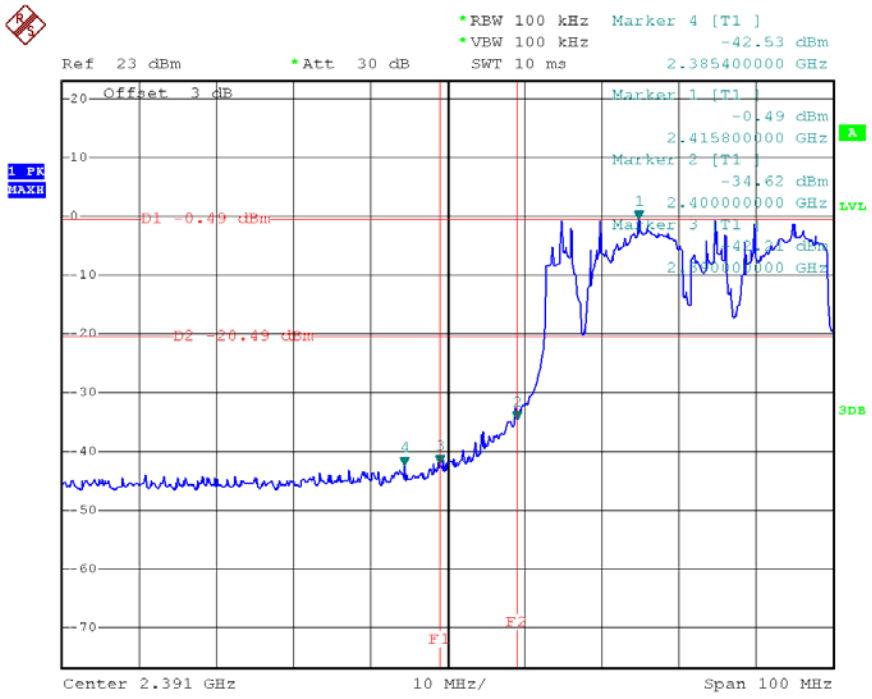


Date: 11.NOV.2009 06:10:37

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH09 (Port. 0 + Port. 1)		

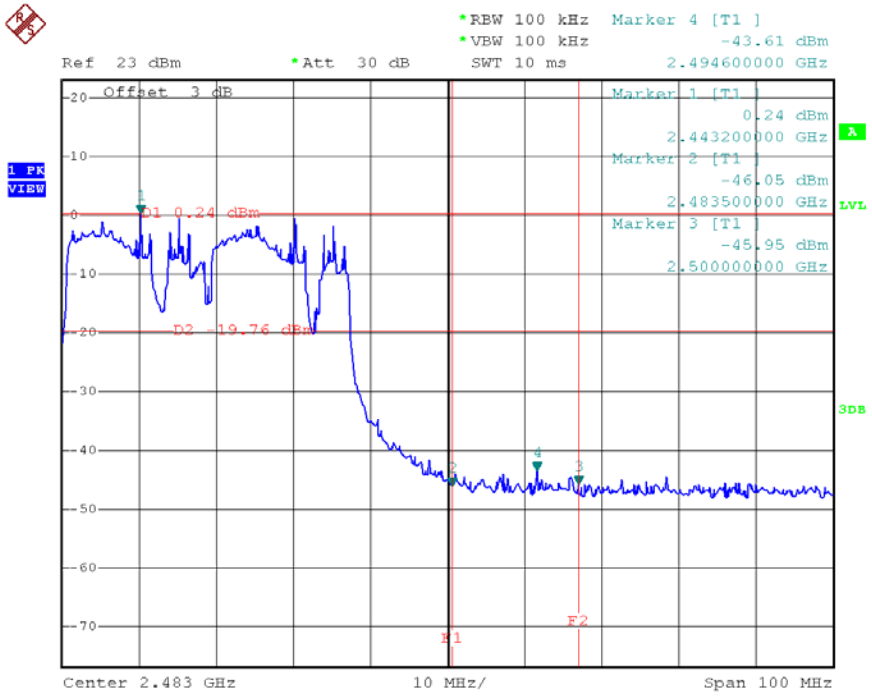
Channel of Worst Data: CH3			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2385.40	-42.53	2494.60	-43.61
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH03



Date: 11.NOV.2009 06:16:59

CH09



Date: 11.NOV.2009 06:31:06

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010

Remark: ” N/A” denotes No Model Name, Serial No. or No Calibration specified.

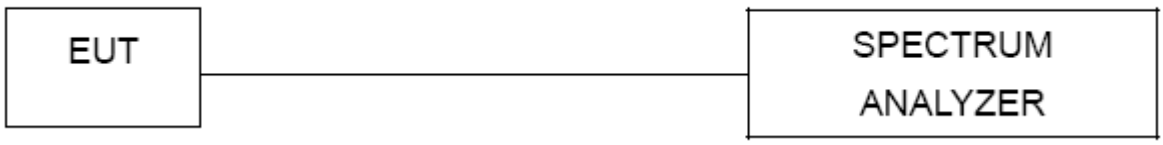
8.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW=3KHz, VBW=30KHz, Sweep time = 500s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

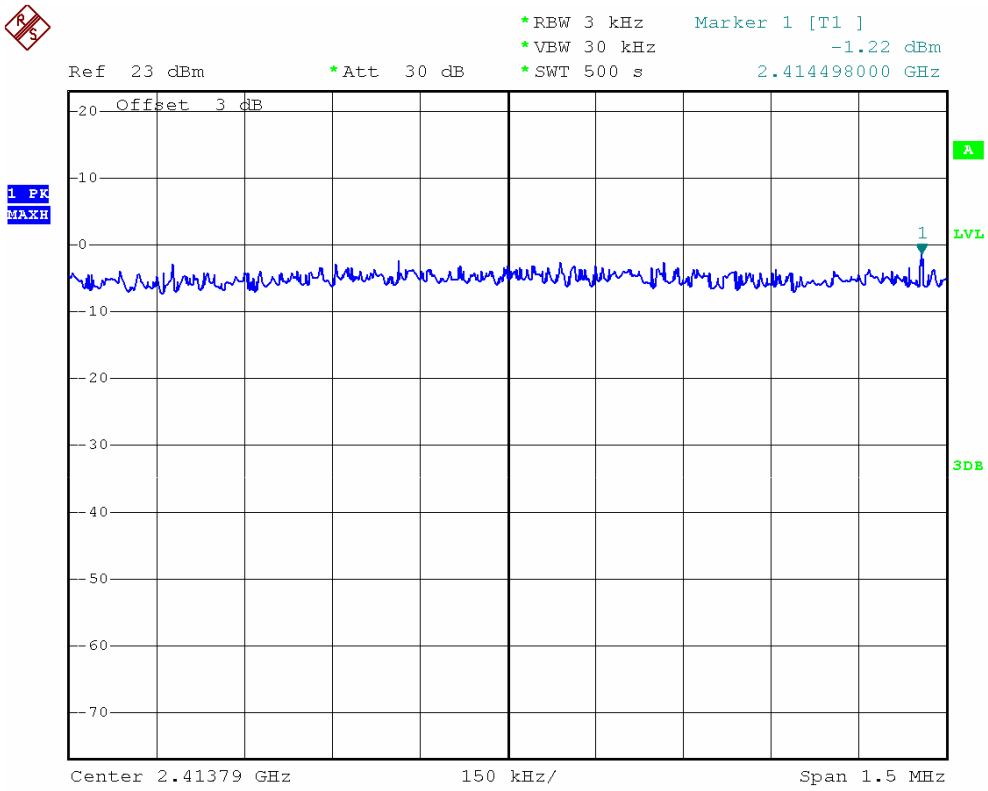
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.6 TEST RESULTS

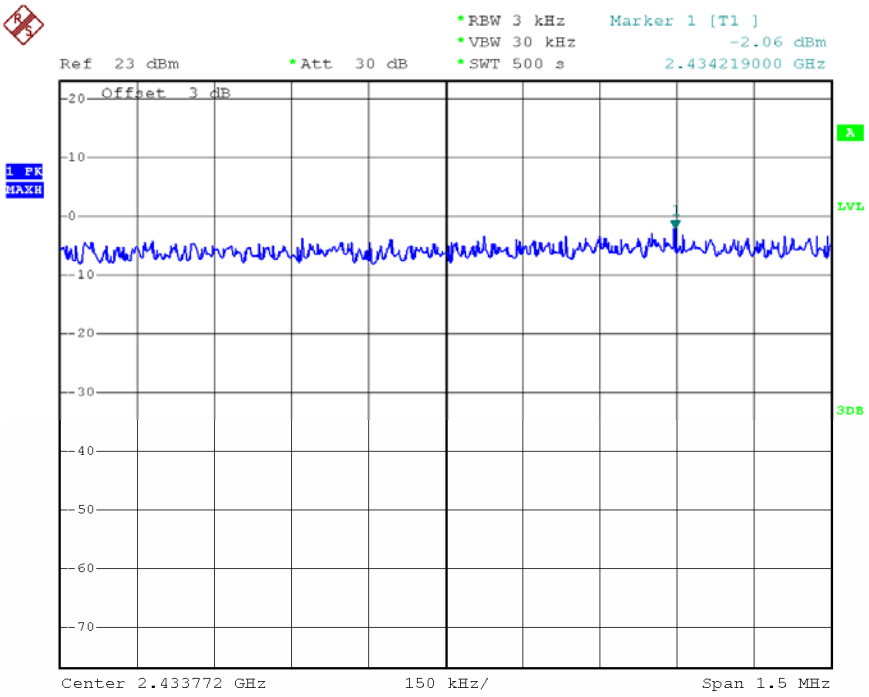
EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH06, CH11 (Port. 0 + Port. 1)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-1.22	8
CH06	2437	-2.06	8
CH11	2462	-1.45	8

CH01

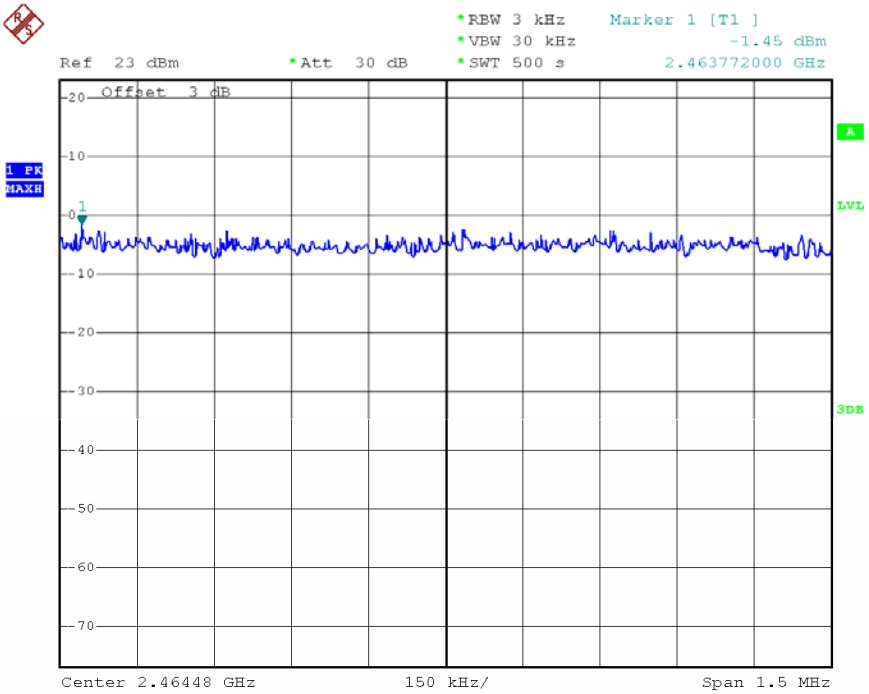


CH06



Date: 11.NOV.2009 03:05:58

CH11

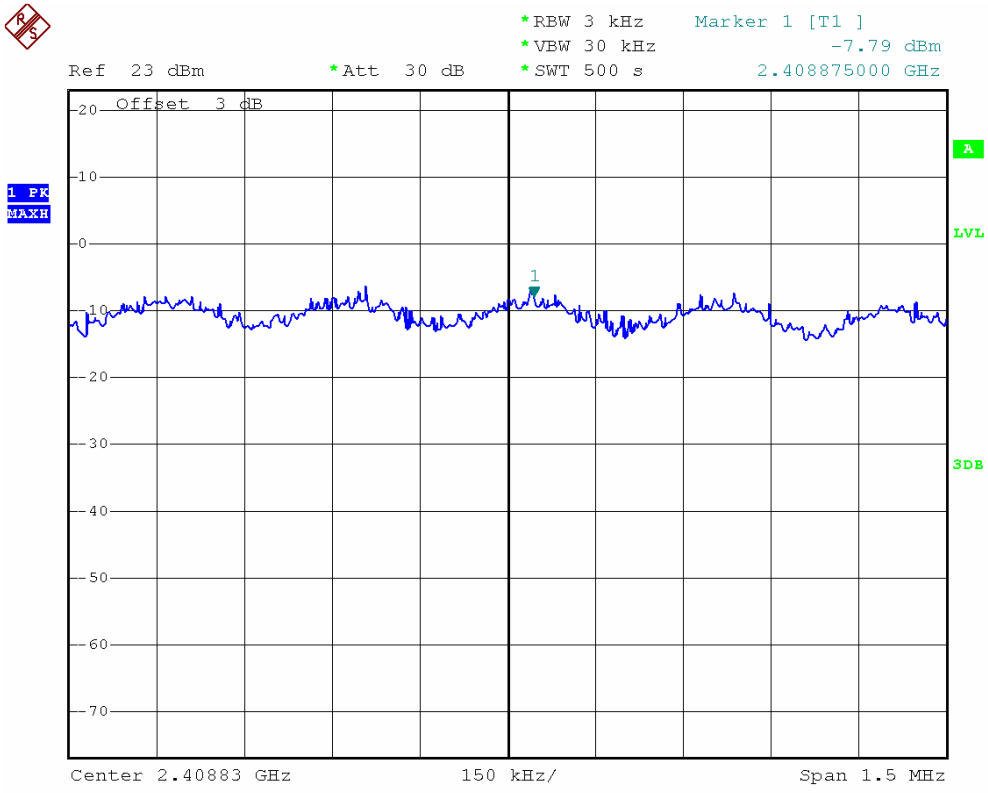


Date: 11.NOV.2009 03:03:58

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH06, CH11 (Port. 0 + Port. 1)		

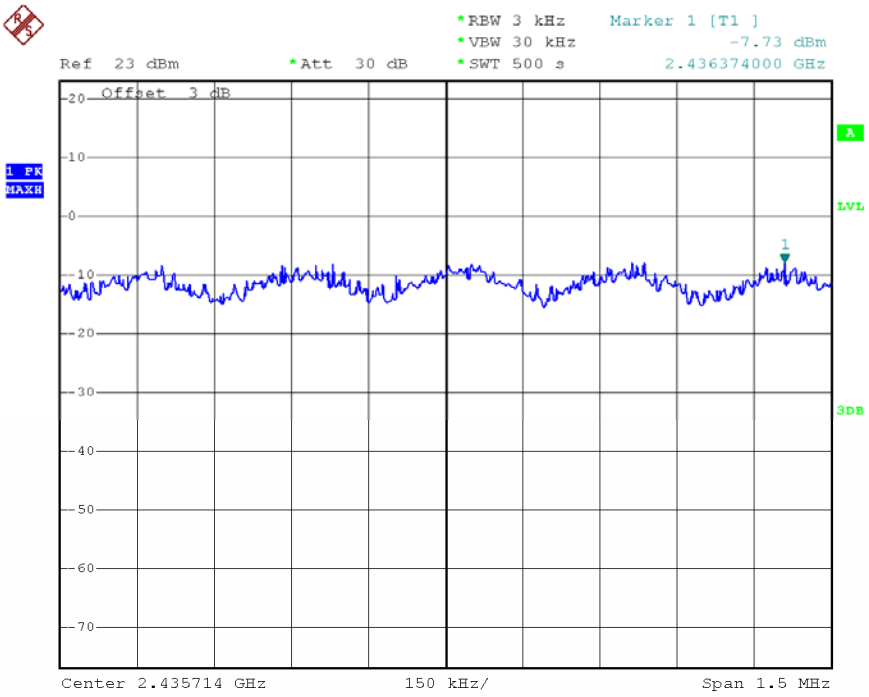
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-7.79	8
CH06	2437	-7.73	8
CH11	2462	-6.55	8

CH01



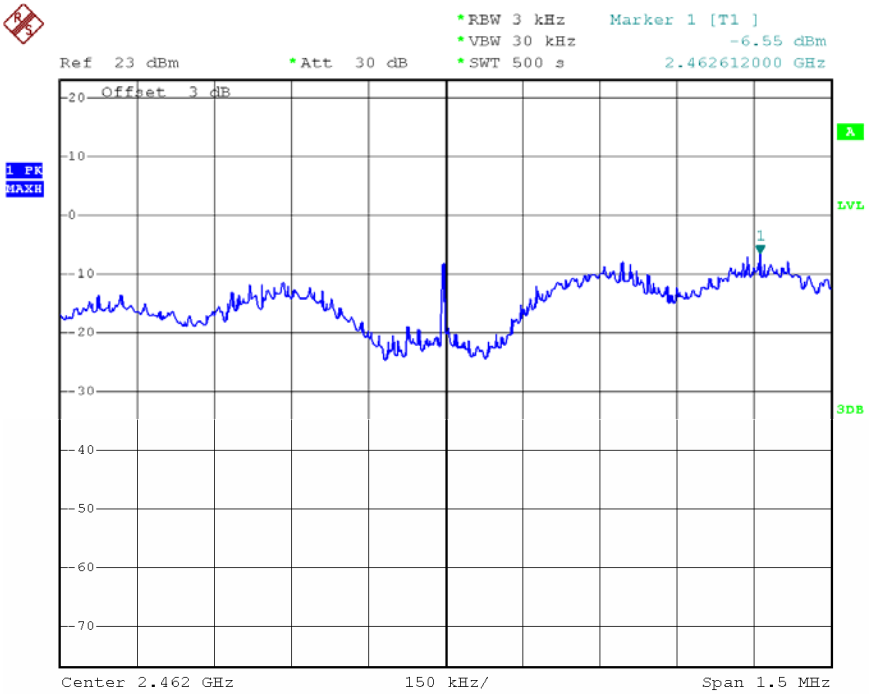
Date: 11.NOV.2009 02:05:19

CH06



Date: 11.NOV.2009 02:39:14

CH11

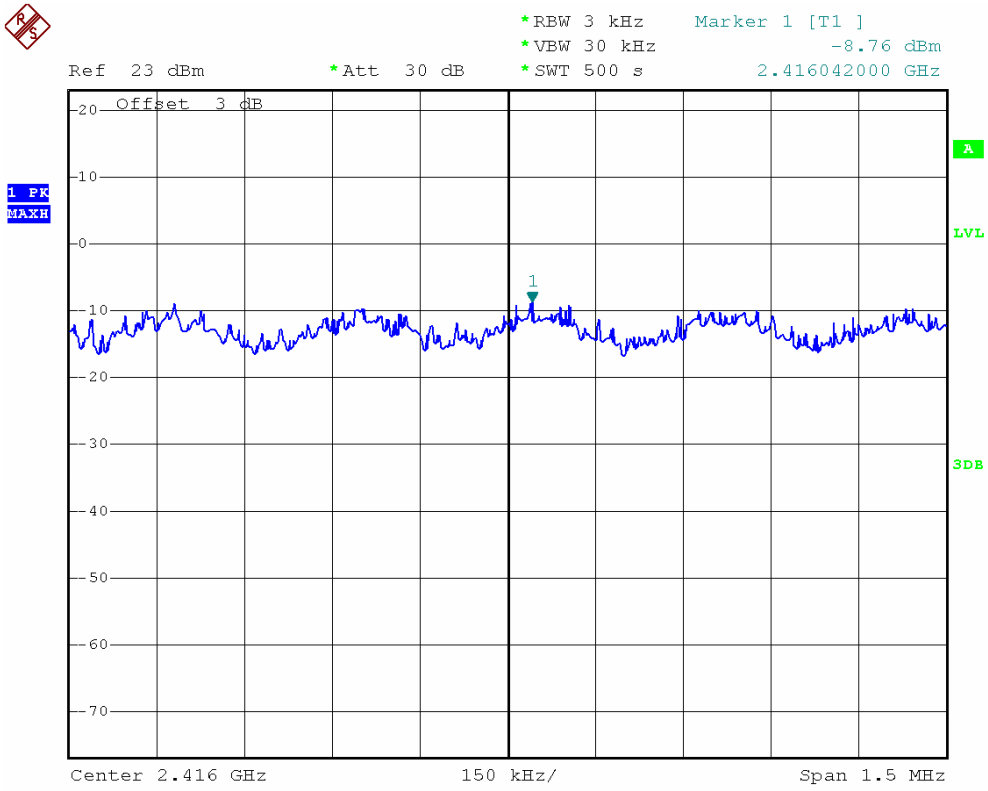


Date: 11.NOV.2009 02:42:02

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH06, CH11 (Port. 0 + Port. 1)		

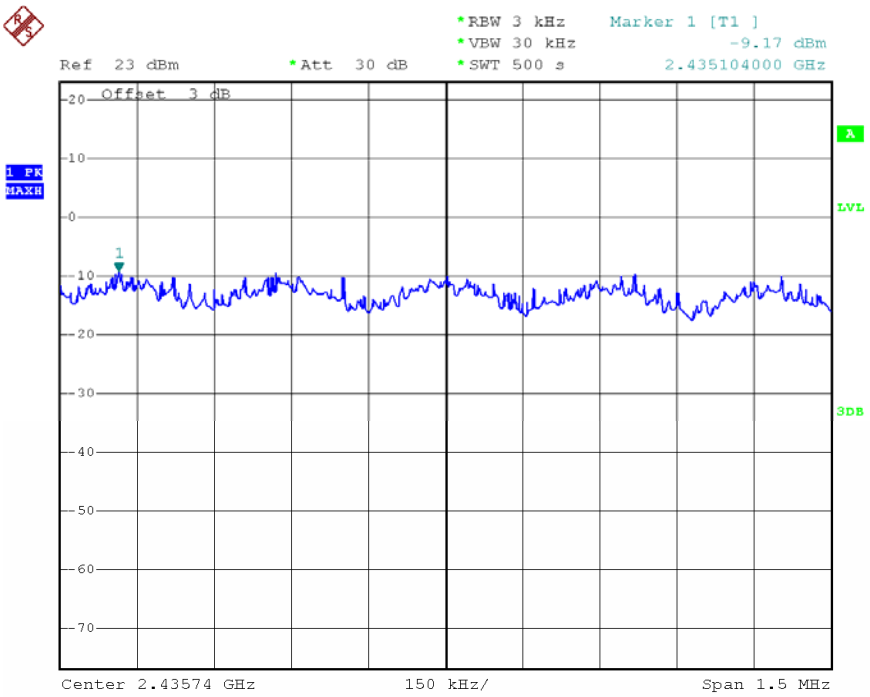
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-8.76	8
CH06	2437	-9.17	8
CH11	2462	-8.58	8

CH01



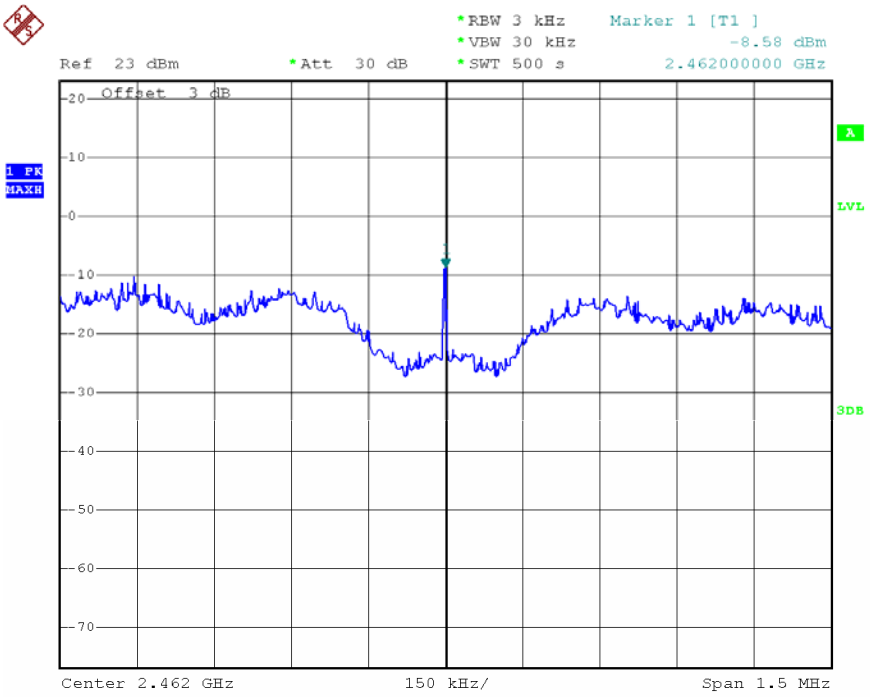
Date: 11.NOV.2009 03:21:24

CH06



Date: 11.NOV.2009 03:30:15

CH11

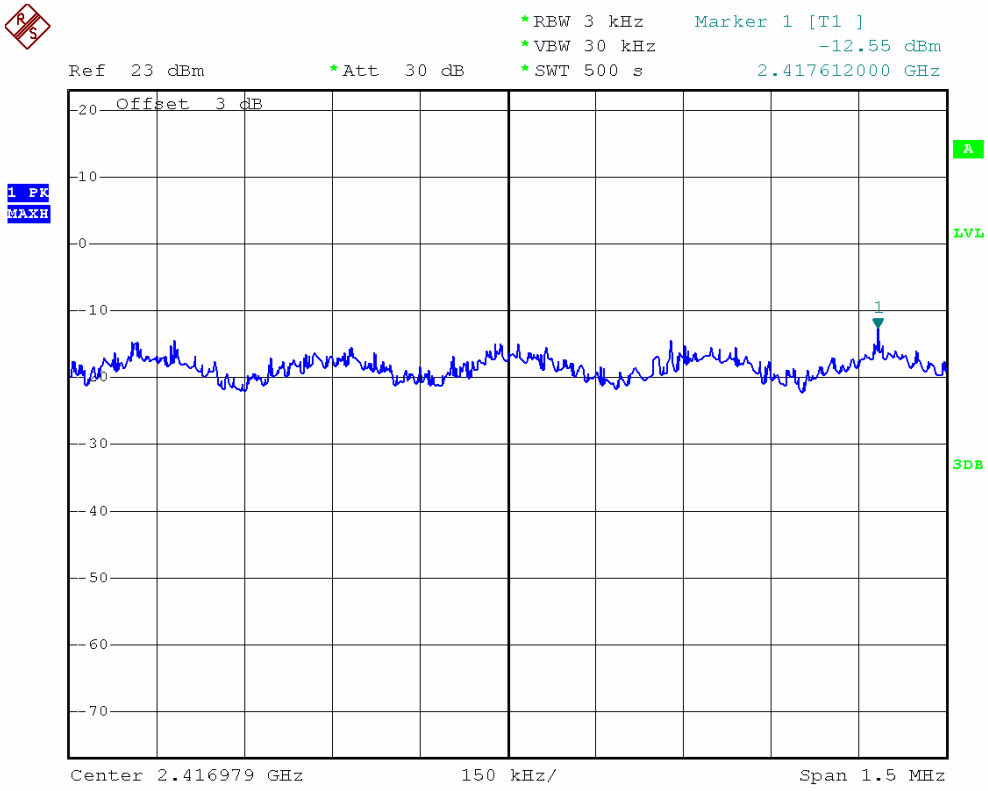


Date: 11.NOV.2009 06:04:14

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH06, CH09 (Port. 0 + Port. 1)		

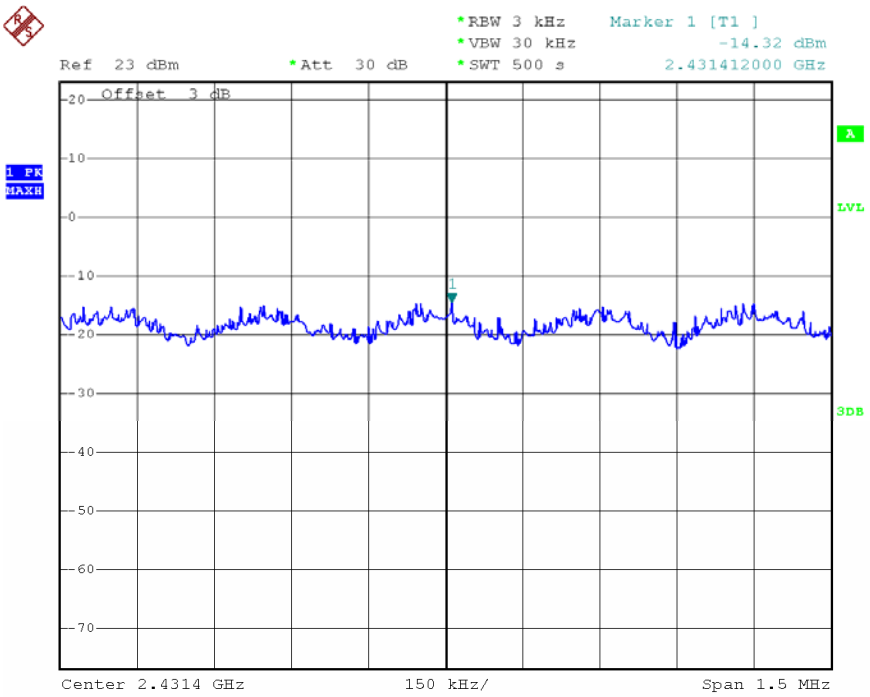
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-12.55	8
CH06	2437	-14.32	8
CH09	2452	-14.34	8

CH03



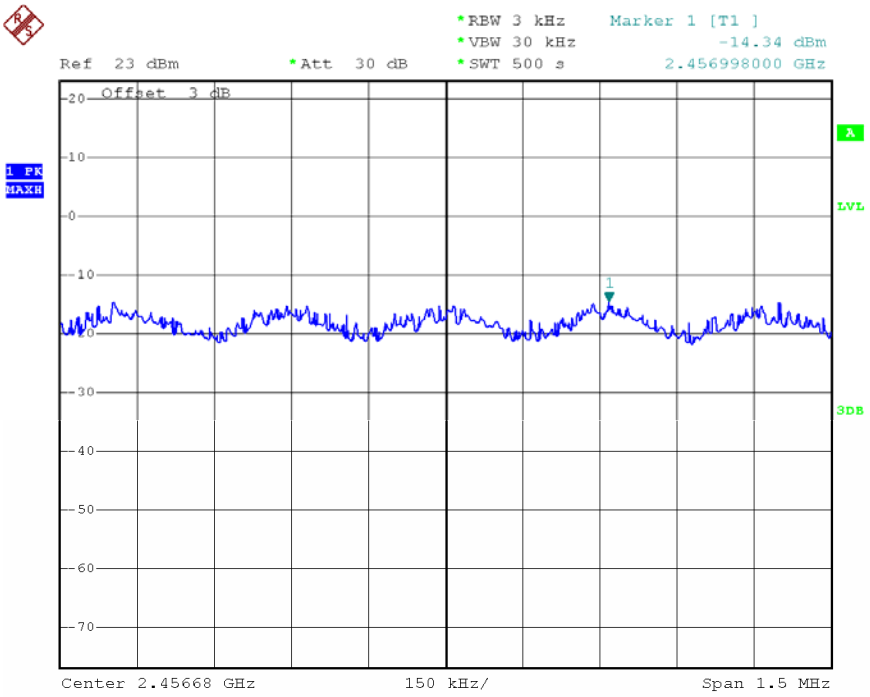
Date: 11.NOV.2009 06:20:14

CH06



Date: 11.NOV.2009 06:22:52

CH09



Date: 11.NOV.2009 06:32:27

9. RF EXPOSURE TEST

9.1 APPLIED PROCEDURES / LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

9.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 10, 2010
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

9.1.2 MPE CALCULATION METHOD

E (V/m) $= \frac{\sqrt{30 \times P \times G}}{d}$ Power Density: *Pd* (W/m²) $= \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

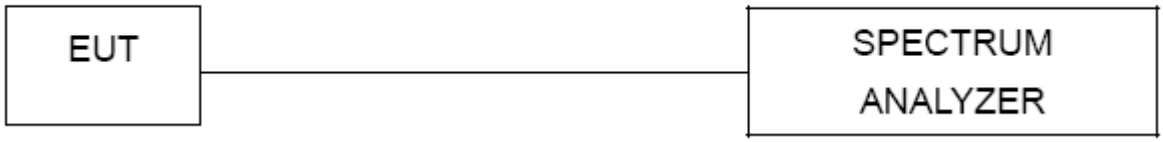
Pd $= \frac{30 \times P \times G}{377 \times d^2}$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP



9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

9.1.6 TEST RESULTS

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b (Port. 0)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	2.00	1.5849	15.20	33.1131	0.010446	1
2437	**2.00**	**1.5849**	**15.59**	**36.2243**	**0.011427**	**1**
2462	2.00	1.5849	15.57	36.0579	0.011375	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b (Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	**2.00**	**1.5849**	**17.12**	**51.5229**	**0.016254**	**1**
2437	2.00	1.5849	16.81	47.9733	0.015134	1
2462	2.00	1.5849	16.07	40.4576	0.012763	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b (Port. 0 + Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	**2.00**	**1.5849**	**19.28**	**84.7227**	**0.026727**	**1**
2437	2.00	1.5849	19.25	84.1395	0.026543	1
2462	2.00	1.5849	18.84	76.5597	0.024152	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g (Port. 0)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	2.00	1.5849	19.28	84.7227	0.026727	1
2437	**2.00**	**1.5849**	**19.34**	**85.9014**	**0.027099**	**1**
2462	2.00	1.5849	18.47	70.3072	0.022179	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g (Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	2.00	1.5849	19.15	82.2243	0.025939	1
2437	**2.00**	**1.5849**	**19.17**	**82.6038**	**0.026059**	**1**
2462	2.00	1.5849	18.74	74.8170	0.023602	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g (Port. 0 + Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	2.00	1.5849	22.23	167.1091	0.052717	1
2437	**2.00**	**1.5849**	**22.27**	**168.6553**	**0.053205**	**1**
2462	2.00	1.5849	21.62	145.2112	0.045809	1

Remark：

(1) The MIMO test requirement, MPE shall measure by using the total sum power of each transmitter chain.

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT20 (Port. 0)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	2.00	1.5849	15.20	33.1131	0.010446	1
2437	**2.00**	**1.5849**	**15.59**	**36.2243**	**0.011427**	**1**
2462	2.00	1.5849	15.57	36.0579	0.011375	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT20 (Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	**2.00**	**1.5849**	**17.12**	**51.5229**	**0.016254**	**1**
2437	2.00	1.5849	16.81	47.9733	0.015134	1
2462	2.00	1.5849	16.07	40.4576	0.012763	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT20 (Port. 0 + Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	**2.00**	**1.5849**	**19.28**	**84.7227**	**0.026727**	**1**
2437	2.00	1.5849	19.25	84.1395	0.026543	1
2462	2.00	1.5849	18.84	76.5597	0.024152	1

Remark：

(1) The MIMO test requirement, MPE shall measure by using the total sum power of each transmitter chain.

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT40 (Port. 0)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2422	2.00	1.5849	16.11	40.8319	0.012881	1
2437	2.00	1.5849	16.07	40.4576	0.012763	1
2452	**2.00**	**1.5849**	**16.20**	**41.6869**	**0.013151**	**1**

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT40 (Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2422	**2.00**	**1.5849**	**16.86**	**48.5289**	**0.015309**	**1**
2437	2.00	1.5849	16.60	45.7088	0.014420	1
2452	2.00	1.5849	16.57	45.3942	0.014320	1

EUT：	TI 4830 Wireless Cable Modem	Model Name ：	DDW3600
Temperature：	27 ℃	Relative Humidity：	48 %
Pressure：	1010hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT40 (Port. 0 + Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2422	**2.00**	**1.5849**	**19.51**	**89.3305**	**0.028181**	**1**
2437	2.00	1.5849	19.35	86.0994	0.027161	1
2452	2.00	1.5849	19.40	87.0964	0.02746	1

Remark：

(1) The MIMO test requirement, MPE shall measure by using the total sum power of each transmitter chain.

10. EUT TEST PHOTO

Conducted Measurement Photos

Radiated Measurement Photos