FCC TEST REPORT

REPORT NO.:	RF990928C13D
MODEL NO.:	TEW-651BR
FCC ID:	XU8TEW651BRV2
RECEIVED:	Mar. 10, 2011
TESTED:	Mar. 10 ~ Mar. 23, 2011
ISSUED:	Mar. 31, 2011

APPLICANT:	TRENDNET, Inc.
ADDRESS:	20675 Manhattan Place, Torrance, CA 90501, USA

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, Taiwan, R.O.C.
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Mar. 31, 2011

1. CERTIFICATION

PRODUCT: 150Mbps Wireless N Home Router
MODEL: TEW-651BR
BRAND: TRENDnet
APPLICANT: TRENDNET, Inc.
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Mar. 10 ~ Mar. 23, 2011
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.4-2003
ANSI C63.10-2009

The above equipment (Model: TEW-651BR) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY Polly Chien , **DATE :** Mar. 31, 2011
Polly Chien / Specialist

APPROVED BY , **DATE :** Mar. 31, 2011
Gary Chang / Assistant Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -12.40dB at 0.162MHz.
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2390.00 & 2483.50 & 4924.00MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	150Mbps Wireless N Home Router
MODEL NO.	TEW-651BR
FCC ID	XU8TEW651BRV2
NOMINAL VOLTAGE	5Vdc (adapter)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps
OPERATING FREQUENCY	2412 ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
OUTPUT POWER	295.1mW
ANTENNA TYPE	Dipole antenna with 2dBi gain
ANTENNA CONNECTOR	NA
I/O PORTS	RJ45
DATA CABLE	NA
ACCESSORY DEVICES	Adapter

NOTE:

1. This report is issued as a supplementary report of BV ADT report no.: RF990928C13A. This report is prepared for FCC class II permissive change. The differences compared with the original design are adding main board without shielding case and a new adapter and keeping the original adapter model: AMS47-0501000FU. Therefore, all test items are re-tested in this report.
2. The EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

3. The EUT was powered by the following adapters:

Adapter 1 (Original)	
BRAND:	AMIGO
MODEL:	AMS47-0501000FU
INPUT:	100-240Vac~50-60Hz, 0.2A
OUTPUT:	5Vdc, 1.0A
POWER LINE:	1.5m non-shielded cable without core

Adapter 2 (New)	
BRAND:	SHENZHEN FRECOM ELECTRONICS CO., LTD.
MODEL:	FPS005USA-050100
INPUT:	100-240Vac~50/60Hz, 300mA
OUTPUT:	5Vdc, 1A
POWER LINE:	1.5m non-shielded cable without core

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

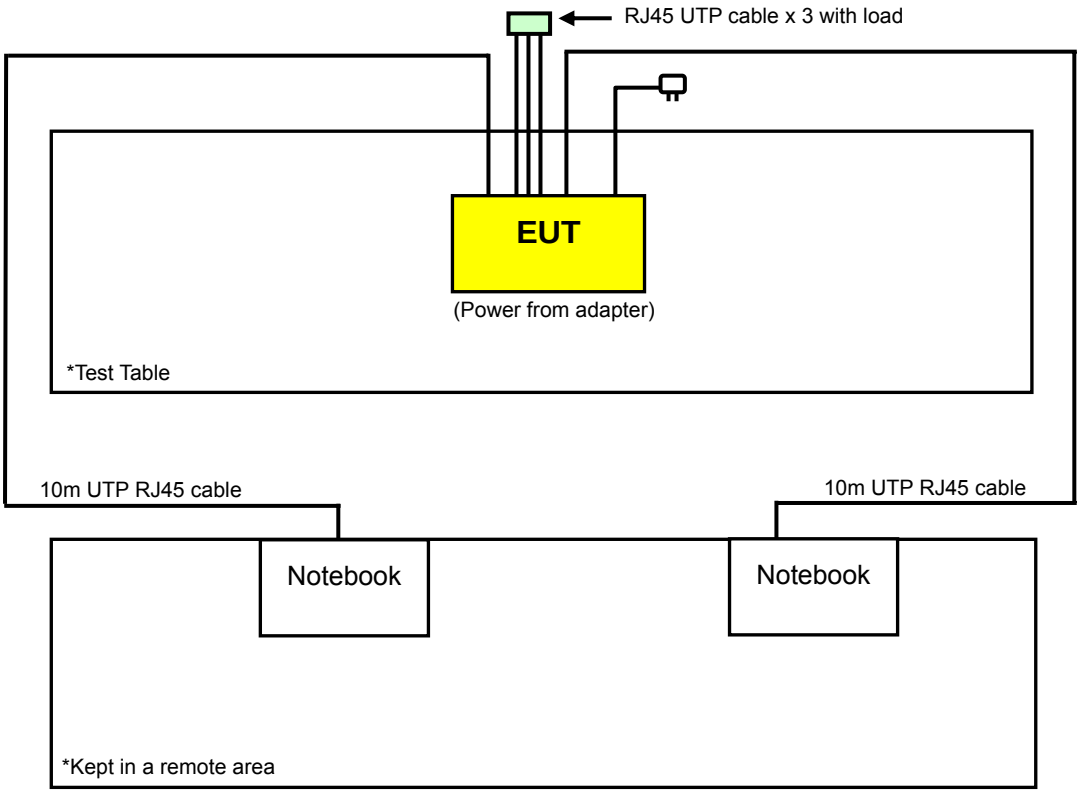
11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

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

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

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

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	Power from Adapter 1: AMS47-0501000FU
B	-	√	√	-	Power from Adapter 2: FPS005USA-050100

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement
NOTE: "-" means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
A	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5

RADIATED EMISSION TEST (BELOW 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11g	1 to 11	6	OFDM	BPSK	6.0

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11g	1 to 11	6	OFDM	BPSK	6.0

BANDEDGE MEASUREMENT:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5
A	802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
A	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 68%RH, 1010 hPa	120Vac, 60Hz	Sun Lin
RE<1G	22deg. C, 64%RH, 1006 hPa	120Vac, 60Hz	Sun Lin
PLC	25deg. C, 66%RH, 1005 hPa	120Vac, 60Hz	Frank Wang
APCM	22deg. C, 64%RH, 1008 hPa	120Vac, 60Hz	Sun Lin

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C (15.247)
ANSI C63.4-2003
ANSI C63.10-2009

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D531	CN-0XM006-48643 -81U-2786	QDS-BRCM1020
2	NOTEBOOK	DELL	D830	10026042688	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	10m UTP RJ45 cable.
2	10m UTP RJ45 cable.

NOTE:
1. All power cords of the above support units are non shielded (1.8m).
2. Items 1~2 acted as communication partners to transfer data.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Aug. 04, 2010	Aug. 03, 2011
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Jul. 09, 2010	Jul. 08, 2011
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 30, 2010	Apr. 29, 2011
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-209	Aug. 02, 2010	Aug. 01, 2011
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 27, 2010	Dec. 26, 2011
Preamplifier Agilent	8449B	3008A01910	Sep. 09, 2010	Sep. 08, 2011
Preamplifier Agilent	8447D	2944A10638	Nov. 03, 2010	Nov. 02, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218190/4 231241/4	May 14, 2010	May 13, 2011
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 20, 2010	Aug. 19, 2011
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	NA	NA	NA

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

2. The test was performed in HwaYa Chamber 9.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 460141.

5. The IC Site Registration No. is IC 7450F-4.

4.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

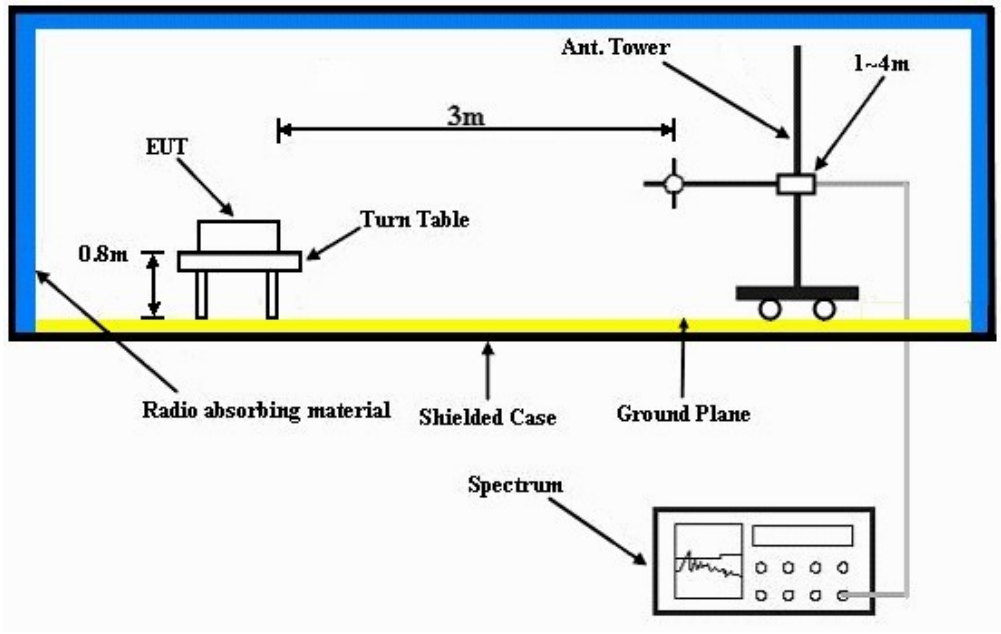
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

a. Placed the EUT on the testing table.
b. Prepared notebook systems to act as communication partners and placed them outside of testing area.
c. The communication partners connected with EUT via a RJ45 cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The necessary accessories enable the EUT in full functions.

4.1.7 TEST RESULTS

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	**TESTED BY**	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2386.00	53.7 PK	74.0	-20.3	1.02 H	6	23.20	30.50
2	2386.00	43.5 AV	54.0	-10.5	1.02 H	6	13.00	30.50
3	*2412.00	97.1 PK			1.02 H	6	66.50	30.60
4	*2412.00	93.3 AV			1.02 H	6	62.70	30.60
5	4824.00	50.7 PK	74.0	-23.3	1.00 H	345	14.10	36.60
6	4824.00	48.1 AV	54.0	-5.9	1.00 H	345	11.50	36.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	2386.00	56.7 PK	74.0	-17.3	1.16 V	214	26.20	30.50
2	2386.00	46.5 AV	54.0	-7.5	1.16 V	214	16.00	30.50
3	*2412.00	107.4 PK			1.16 V	214	76.80	30.60
4	*2412.00	103.6 AV			1.16 V	214	73.00	30.60
5	4824.00	53.6 PK	74.0	-20.4	1.06 V	5	17.00	36.60
6	4824.00	52.5 AV	54.0	-1.5	1.06 V	5	15.90	36.60

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.6 PK			1.29 H	247	66.90	30.70
2	*2437.00	93.6 AV			1.29 H	247	62.90	30.70
3	4824.00	51.8 PK	74.0	-22.2	1.00 H	170	15.20	36.60
4	4824.00	48.0 AV	54.0	-6.0	1.00 H	170	11.40	36.60
5	7311.00	54.0 PK	74.0	-20.0	1.50 H	10	10.70	43.30
6	7311.00	47.5 AV	54.0	-6.5	1.50 H	10	4.20	43.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.0 PK			1.00 V	360	77.30	30.70
2	*2437.00	104.1 AV			1.00 V	360	73.40	30.70
3	4874.00	54.7 PK	74.0	-19.3	1.00 V	284	18.00	36.70
4	4874.00	52.5 AV	54.0	-1.5	1.00 V	284	15.80	36.70
5	7311.00	57.7 PK	74.0	-16.3	1.62 V	105	14.40	43.30
6	7311.00	51.7 AV	54.0	-2.3	1.62 V	105	8.40	43.30

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	98.2 PK			1.00 H	257	67.40	30.80
2	*2462.00	94.2 AV			1.00 H	257	63.40	30.80
3	2483.50	56.2 PK	74.0	-17.8	1.08 H	15	25.30	30.90
4	2483.50	45.6 AV	54.0	-8.4	1.08 H	15	14.70	30.90
5	4924.00	51.0 PK	74.0	-23.0	1.13 H	192	14.20	36.80
6	4924.00	48.0 AV	54.0	-6.0	1.13 H	192	11.20	36.80
7	7386.00	54.0 PK	74.0	-20.0	1.68 H	108	10.60	43.40
8	7386.00	46.8 AV	54.0	-7.2	1.68 H	108	3.40	43.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.8 PK			1.16 V	209	78.00	30.80
2	*2462.00	104.7 AV			1.16 V	209	73.90	30.80
3	2483.50	60.6 PK	74.0	-13.4	1.16 V	209	29.70	30.90
4	2483.50	50.6 AV	54.0	-3.4	1.16 V	209	19.70	30.90
5	4924.00	55.2 PK	74.0	-18.8	1.00 V	267	18.40	36.80
6	**4924.00**	**53.0 AV**	**54.0**	**-1.0**	**1.00 V**	**267**	**16.20**	**36.80**
7	7386.00	58.4 PK	74.0	-15.6	1.68 V	105	15.00	43.40
8	7386.00	52.7 AV	54.0	-1.3	1.68 V	105	9.30	43.40

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.4 PK	74.0	-12.6	1.30 H	289	30.90	30.50
2	2390.00	46.3 AV	54.0	-7.7	1.30 H	289	15.80	30.50
3	*2412.00	99.6 PK			1.30 H	289	69.00	30.60
4	*2412.00	90.3 AV			1.30 H	289	59.70	30.60
5	4824.00	53.7 PK	74.0	-20.3	1.03 H	176	17.10	36.60
6	4824.00	38.4 AV	54.0	-15.6	1.03 H	176	1.80	36.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	1.12 V	279	37.90	30.50
2	**2390.00**	**53.0 AV**	**54.0**	**-1.0**	**1.12 V**	**279**	**22.50**	**30.50**
3	*2412.00	108.6 PK			1.12 V	277	78.00	30.60
4	*2412.00	99.3 AV			1.12 V	277	68.70	30.60
5	4924.00	58.0 PK	74.0	-16.0	1.00 V	279	21.20	36.80
6	4924.00	43.0 AV	54.0	-11.0	1.00 V	279	6.20	36.80

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.4 PK			1.32 H	277	69.70	30.70
2	*2437.00	91.2 AV			1.32 H	277	60.50	30.70
3	4874.00	55.1 PK	74.0	-18.9	1.08 H	157	18.40	36.70
4	4874.00	39.8 AV	54.0	-14.2	1.08 H	157	3.10	36.70
5	7311.00	55.8 PK	74.0	-18.2	1.25 H	107	12.50	43.30
6	7311.00	41.5 AV	54.0	-12.5	1.25 H	107	-1.80	43.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.5 PK			1.41 V	27	78.80	30.70
2	*2437.00	99.9 AV			1.41 V	27	69.20	30.70
3	4874.00	61.5 PK	74.0	-12.5	1.00 V	277	24.80	36.70
4	4874.00	43.9 AV	54.0	-10.1	1.00 V	277	7.20	36.70
5	7311.00	62.6 PK	74.0	-11.4	1.62 V	104	19.30	43.30
6	7311.00	48.7 AV	54.0	-5.3	1.62 V	104	5.40	43.30

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	99.0 PK			1.28 H	247	68.20	30.80
2	*2462.00	89.5 AV			1.28 H	247	58.70	30.80
3	2483.50	61.2 PK	74.0	-12.8	1.24 H	245	30.30	30.90
4	2483.50	46.4 AV	54.0	-7.6	1.24 H	245	15.50	30.90
5	4924.00	53.9 PK	74.0	-20.1	1.05 H	177	17.10	36.80
6	4924.00	38.7 AV	54.0	-15.3	1.05 H	177	1.90	36.80
7	7386.00	54.3 PK	74.0	-19.7	1.26 H	109	10.90	43.40
8	7386.00	40.1 AV	54.0	-13.9	1.26 H	109	-3.30	43.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.0 PK			1.40 V	206	77.20	30.80
2	*2462.00	98.5 AV			1.40 V	206	67.70	30.80
3	2483.50	68.4 PK	74.0	-5.6	1.14 V	207	37.50	30.90
4	**2483.50**	**53.0 AV**	**54.0**	**-1.0**	**1.14 V**	**207**	**22.10**	**30.90**
5	4924.00	52.2 PK	74.0	-21.8	1.00 V	267	15.40	36.80
6	4924.00	37.1 AV	54.0	-16.9	1.00 V	267	0.30	36.80
7	7386.00	60.1 PK	74.0	-13.9	1.77 V	104	16.70	43.40
8	7386.00	44.8 AV	54.0	-9.2	1.77 V	104	1.40	43.40

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.6 PK	74.0	-13.4	1.29 H	285	30.10	30.50
2	2390.00	44.1 AV	54.0	-9.9	1.29 H	285	13.60	30.50
3	*2412.00	97.5 PK			1.29 H	285	66.90	30.60
4	*2412.00	88.2 AV			1.29 H	285	57.60	30.60
5	4824.00	50.7 PK	74.0	-23.3	1.45 H	196	14.10	36.60
6	4824.00	34.1 AV	54.0	-19.9	1.45 H	196	-2.50	36.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	**2390.00**	**73.0 PK**	**74.0**	**-1.0**	**1.17 V**	**47**	**42.50**	**30.50**
2	2390.00	52.8 AV	54.0	-1.2	1.17 V	47	22.30	30.50
3	*2412.00	106.2 PK			1.17 V	47	75.60	30.60
4	*2412.00	97.0 AV			1.17 V	47	66.40	30.60
5	4824.00	54.3 PK	74.0	-19.7	1.00 V	284	17.70	36.60
6	4824.00	38.4 AV	54.0	-15.6	1.00 V	284	1.80	36.60

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.3 PK			1.21 H	268	69.60	30.70
2	*2437.00	91.2 AV			1.21 H	268	60.50	30.70
3	4874.00	55.3 PK	74.0	-18.7	1.12 H	162	18.60	36.70
4	4874.00	40.2 AV	54.0	-13.8	1.12 H	162	3.50	36.70
5	7311.00	55.6 PK	74.0	-18.4	1.29 H	117	12.30	43.30
6	7311.00	41.7 AV	54.0	-12.3	1.29 H	117	-1.60	43.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.3 PK			1.32 V	58	78.60	30.70
2	*2437.00	100.1 AV			1.32 V	58	69.40	30.70
3	4874.00	61.8 PK	74.0	-12.2	1.02 V	251	25.10	36.70
4	4874.00	43.7 AV	54.0	-10.3	1.02 V	251	7.00	36.70
5	7311.00	62.8 PK	74.0	-11.2	1.57 V	98	19.50	43.30
6	7311.00	49.1 AV	54.0	-4.9	1.57 V	98	5.80	43.30

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	97.9 PK			1.25 H	289	67.10	30.80
2	*2462.00	88.8 AV			1.25 H	289	58.00	30.80
3	2483.50	60.8 PK	74.0	-13.2	1.25 H	289	29.90	30.90
4	2483.50	44.3 AV	54.0	-9.7	1.25 H	289	13.40	30.90
5	4924.00	51.7 PK	74.0	-22.3	1.37 H	158	14.90	36.80
6	4924.00	34.8 AV	54.0	-19.2	1.37 H	158	-2.00	36.80
7	7386.00	55.2 PK	74.0	-18.8	1.27 H	114	11.80	43.40
8	7386.00	41.3 AV	54.0	-12.7	1.27 H	114	-2.10	43.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.7 PK			1.42 V	205	75.90	30.80
2	*2462.00	97.7 AV			1.42 V	205	66.90	30.80
3	**2483.50**	**73.0 PK**	**74.0**	**-1.0**	**1.14 V**	**207**	**42.10**	**30.90**
4	2483.50	52.9 AV	54.0	-1.1	1.14 V	207	22.00	30.90
5	4924.00	50.9 PK	74.0	-23.1	1.00 V	267	14.10	36.80
6	4924.00	36.4 AV	54.0	-17.6	1.00 V	267	-0.40	36.80
7	7386.00	59.4 PK	74.0	-14.6	1.70 V	104	16.00	43.40
8	7386.00	42.8 AV	54.0	-11.2	1.70 V	104	-0.60	43.40

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.9 PK	74.0	-15.1	1.29 H	272	28.40	30.50
2	2390.00	45.0 AV	54.0	-9.0	1.29 H	272	14.50	30.50
3	*2422.00	94.4 PK			1.29 H	272	63.80	30.60
4	*2422.00	84.5 AV			1.29 H	272	53.90	30.60
5	4844.00	42.4 PK	74.0	-31.6	1.48 H	92	5.80	36.60
6	4844.00	30.2 AV	54.0	-23.8	1.48 H	92	-6.40	36.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	1.14 V	264	38.00	30.50
2	2390.00	52.7 AV	54.0	-1.3	1.14 V	264	22.20	30.50
3	*2422.00	103.6 PK			1.12 V	315	73.00	30.60
4	*2422.00	93.4 AV			1.12 V	315	62.80	30.60
5	4844.00	46.4 PK	74.0	-27.6	1.60 V	263	9.80	36.60
6	4844.00	34.9 AV	54.0	-19.1	1.60 V	263	-1.70	36.60

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.0 PK			1.00 H	271	66.30	30.70
2	*2437.00	87.4 AV			1.00 H	271	56.70	30.70
3	4874.00	55.1 PK	74.0	-18.9	1.39 H	197	18.40	36.70
4	4874.00	39.9 AV	54.0	-14.1	1.39 H	197	3.20	36.70
5	7311.00	55.1 PK	74.0	-18.9	1.47 H	106	11.80	43.30
6	7311.00	41.2 AV	54.0	-12.8	1.47 H	106	-2.10	43.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.1 PK			1.13 V	48	75.40	30.70
2	*2437.00	96.0 AV			1.13 V	48	65.30	30.70
3	2483.50	68.8 PK	74.0	-5.2	1.14 V	48	37.90	30.90
4	2483.50	52.3 AV	54.0	-1.7	1.14 V	48	21.40	30.90
5	4874.00	51.6 PK	74.0	-22.4	1.01 V	281	14.90	36.70
6	4874.00	37.2 AV	54.0	-16.8	1.01 V	281	0.50	36.70
7	7311.00	52.8 PK	74.0	-21.2	1.81 V	188	9.50	43.30
8	7311.00	39.4 AV	54.0	-14.6	1.81 V	188	-3.90	43.30

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1010 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	94.5 PK			1.28 H	259	63.70	30.80
2	*2452.00	84.8 AV			1.28 H	259	54.00	30.80
3	2483.50	59.1 PK	74.0	-14.9	1.28 H	258	28.20	30.90
4	2483.50	45.2 AV	54.0	-8.8	1.28 H	258	14.30	30.90
5	4904.00	42.7 PK	74.0	-31.3	1.53 H	102	5.90	36.80
6	4904.00	30.5 AV	54.0	-23.5	1.53 H	102	-6.30	36.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.5 PK			1.15 V	352	72.70	30.80
2	*2452.00	93.2 AV			1.15 V	352	62.40	30.80
3	2483.50	69.9 PK	74.0	-4.1	1.13 V	204	39.00	30.90
4	2483.50	52.7 AV	54.0	-1.3	1.13 V	204	21.80	30.90
5	4904.00	44.9 PK	74.0	-29.1	1.18 V	113	8.10	36.80
6	4904.00	35.2 AV	54.0	-18.8	1.18 V	113	-1.60	36.80

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

BELOW 1GHz WORST-CASE DATA：802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH 1006 hPa	TESTED BY	Sun Lin
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	156.28	33.7 QP	43.5	-9.8	1.50 H	253	19.90	13.80
2	249.60	36.9 QP	46.0	-9.1	1.00 H	193	24.00	12.90
3	311.82	35.6 QP	46.0	-10.4	1.00 H	202	21.60	14.00
4	500.42	38.1 QP	46.0	-7.9	2.00 H	244	18.80	19.30
5	626.80	34.4 QP	46.0	-11.6	1.50 H	211	12.20	22.20
6	784.28	35.6 QP	46.0	-10.4	1.00 H	220	10.70	24.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.34	34.1 QP	40.0	-5.9	1.23 V	167	21.80	12.30
2	156.28	36.2 QP	43.5	-7.3	1.00 V	40	22.40	13.80
3	249.60	32.8 QP	46.0	-13.2	1.00 V	160	19.90	12.90
4	311.82	34.2 QP	46.0	-11.8	1.00 V	169	20.20	14.00
5	500.42	38.0 QP	46.0	-8.0	1.00 V	238	18.70	19.30
6	784.28	34.8 QP	46.0	-11.2	1.25 V	199	9.90	24.90

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH 1006 hPa	TESTED BY	Sun Lin
TEST MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.17	32.0 QP	43.5	-11.5	1.50 H	277	20.00	12.00
2	156.28	33.6 QP	43.5	-9.9	1.25 H	250	19.80	13.80
3	311.82	38.9 QP	46.0	-7.1	1.00 H	166	24.90	14.00
4	500.42	39.4 QP	46.0	-6.6	2.00 H	139	20.10	19.30
5	784.28	36.4 QP	46.0	-9.6	1.00 H	202	11.50	24.90
6	856.22	36.6 QP	46.0	-9.4	1.00 H	238	10.90	25.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.51	36.2 QP	40.0	-3.8	1.00 V	253	23.70	12.50
2	101.84	35.9 QP	43.5	-7.6	1.00 V	262	26.30	9.60
3	156.28	36.5 QP	43.5	-7.0	1.00 V	10	22.70	13.80
4	311.82	34.7 QP	46.0	-11.3	1.50 V	13	20.70	14.00
5	469.31	33.7 QP	46.0	-12.3	1.00 V	250	15.30	18.40
6	500.42	35.7 QP	46.0	-10.3	1.25 V	43	16.40	19.30

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

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 30, 2010	Nov. 29, 2011
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 30, 2010	Dec. 29, 2011
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jun. 28, 2010	Jun. 27, 2011
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jul. 12, 2010	Jul. 11, 2011
Software ADT	ADT_Cond_ V7.3.7	NA	NA	NA

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

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

4.2.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

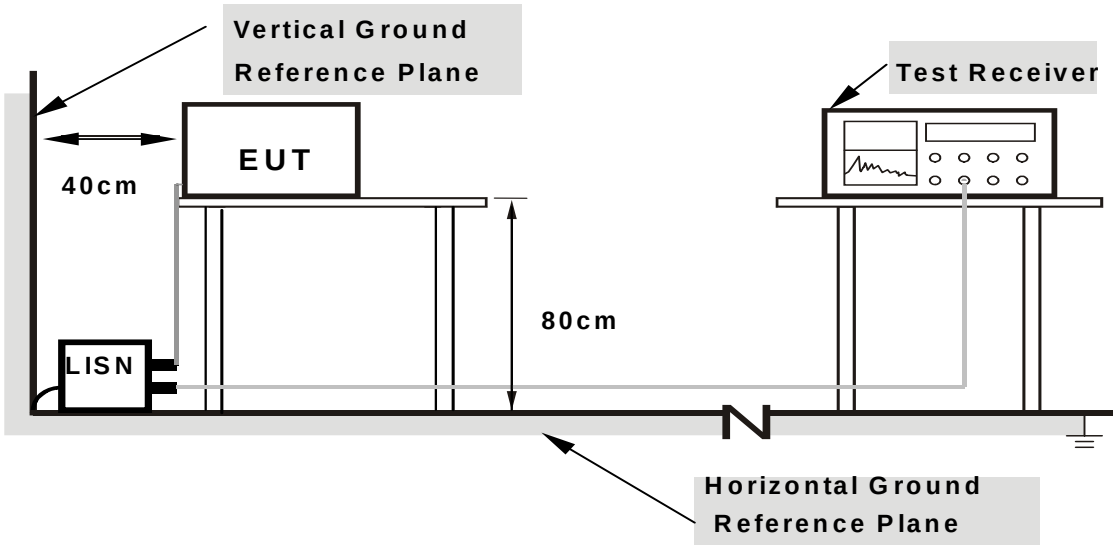
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

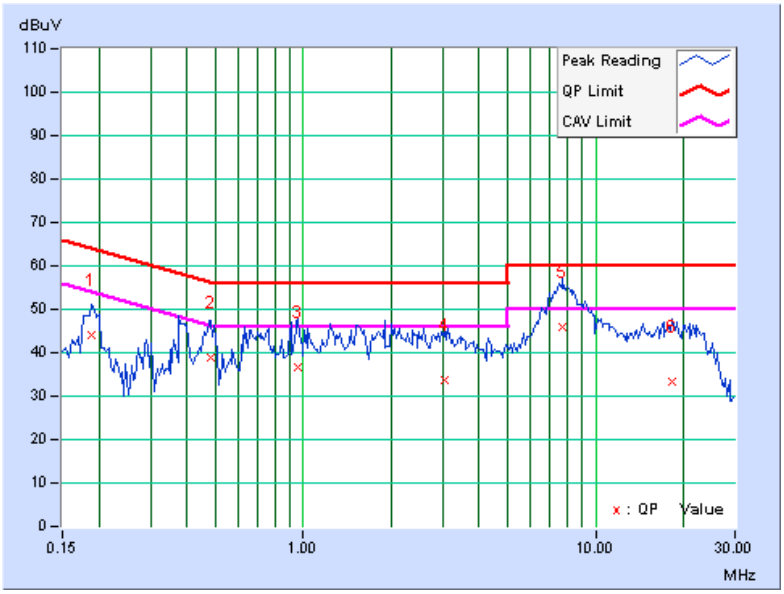
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA：802.11g

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.14	44.03	-	44.17	-	64.08	54.08	-19.91	-
2	0.482	0.16	38.89	-	39.05	-	56.30	46.30	-17.26	-
3	0.963	0.19	36.42	-	36.61	-	56.00	46.00	-19.39	-
4	3.035	0.29	33.46	-	33.75	-	56.00	46.00	-22.25	-
5	7.723	0.63	45.21	-	45.84	-	60.00	50.00	-14.16	-
6	18.264	1.37	32.14	-	33.51	-	60.00	50.00	-26.49	-

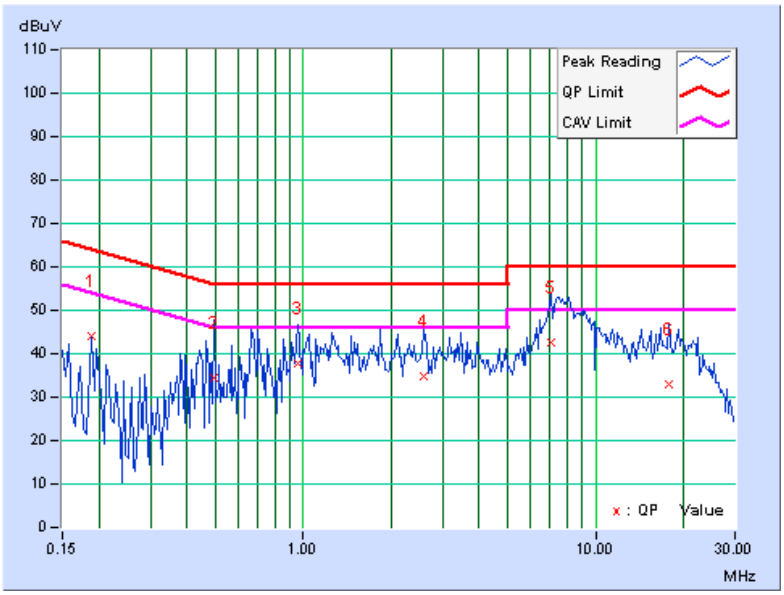
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.13	43.87	-	44.00	-	64.08	54.08	-20.08	-
2	0.498	0.15	34.33	-	34.48	-	56.04	46.04	-21.56	-
3	0.955	0.18	37.75	-	37.93	-	56.00	46.00	-18.07	-
4	2.594	0.25	34.67	-	34.92	-	56.00	46.00	-21.08	-
5	7.056	0.53	42.15	-	42.68	-	60.00	50.00	-17.32	-
6	17.863	1.18	31.64	-	32.82	-	60.00	50.00	-27.18	-

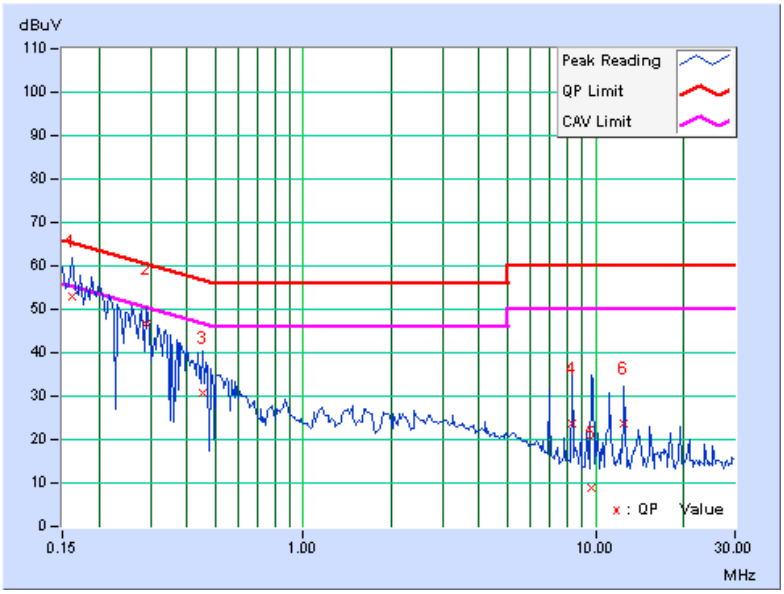
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.162**	**0.14**	**52.84**	**-**	**52.98**	**-**	**65.39**	**55.39**	**-12.40**	**-**
2	0.291	0.14	46.49	-	46.63	-	60.51	50.51	-13.87	-
3	0.451	0.15	30.51	-	30.66	-	56.86	46.86	-26.20	-
4	8.319	0.68	22.89	-	23.57	-	60.00	50.00	-36.43	-
5	9.691	0.78	8.10	-	8.88	-	60.00	50.00	-51.12	-
6	12.551	0.97	22.87	-	23.84	-	60.00	50.00	-36.16	-

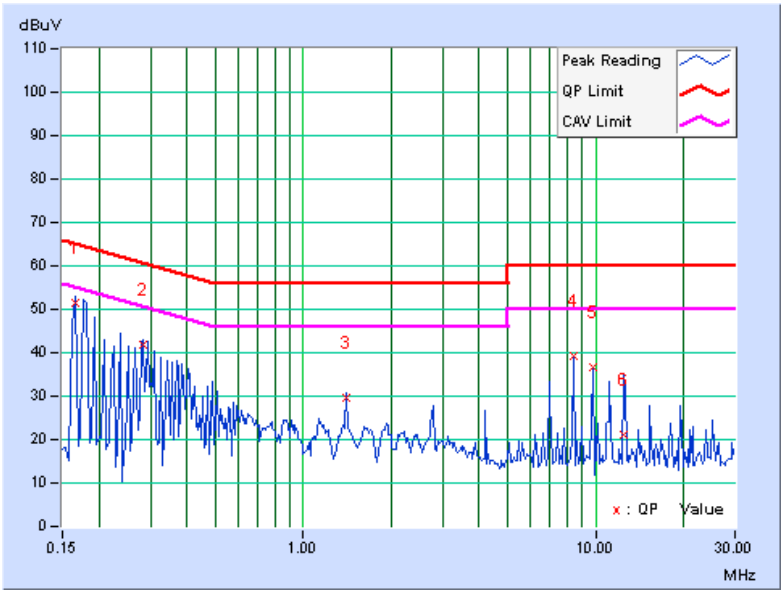
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.13	51.53	-	51.66	-	65.18	55.18	-13.52	-
2	0.283	0.13	41.65	-	41.78	-	60.73	50.73	-18.95	-
3	1.398	0.19	29.56	-	29.75	-	56.00	46.00	-26.25	-
4	8.379	0.61	38.57	-	39.18	-	60.00	50.00	-20.82	-
5	9.777	0.71	36.11	-	36.82	-	60.00	50.00	-23.18	-
6	12.488	0.86	20.14	-	21.00	-	60.00	50.00	-39.00	-

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



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

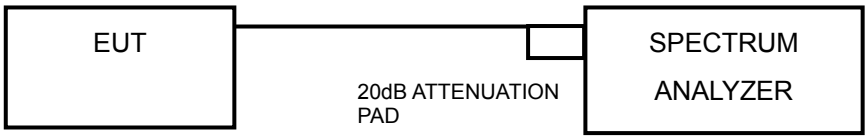
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

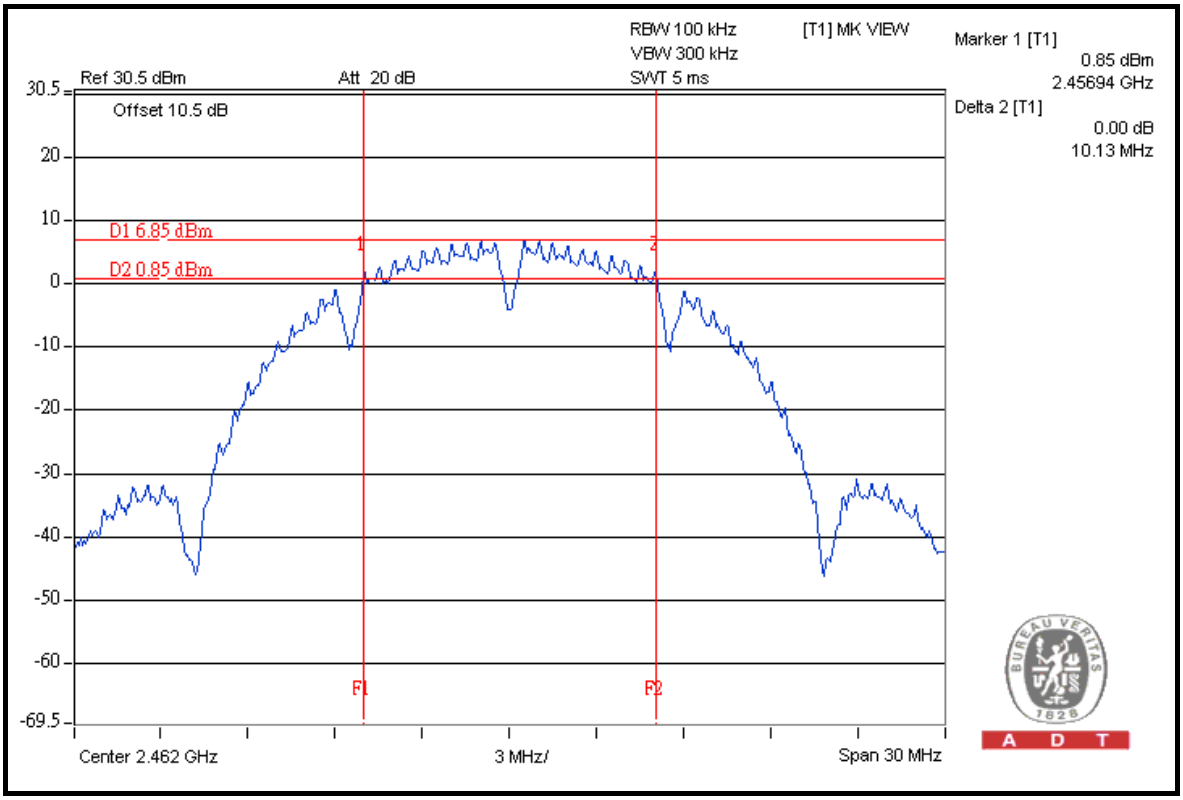
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	10.12	0.5	PASS
6	2437	10.11	0.5	PASS
11	2462	10.13	0.5	PASS

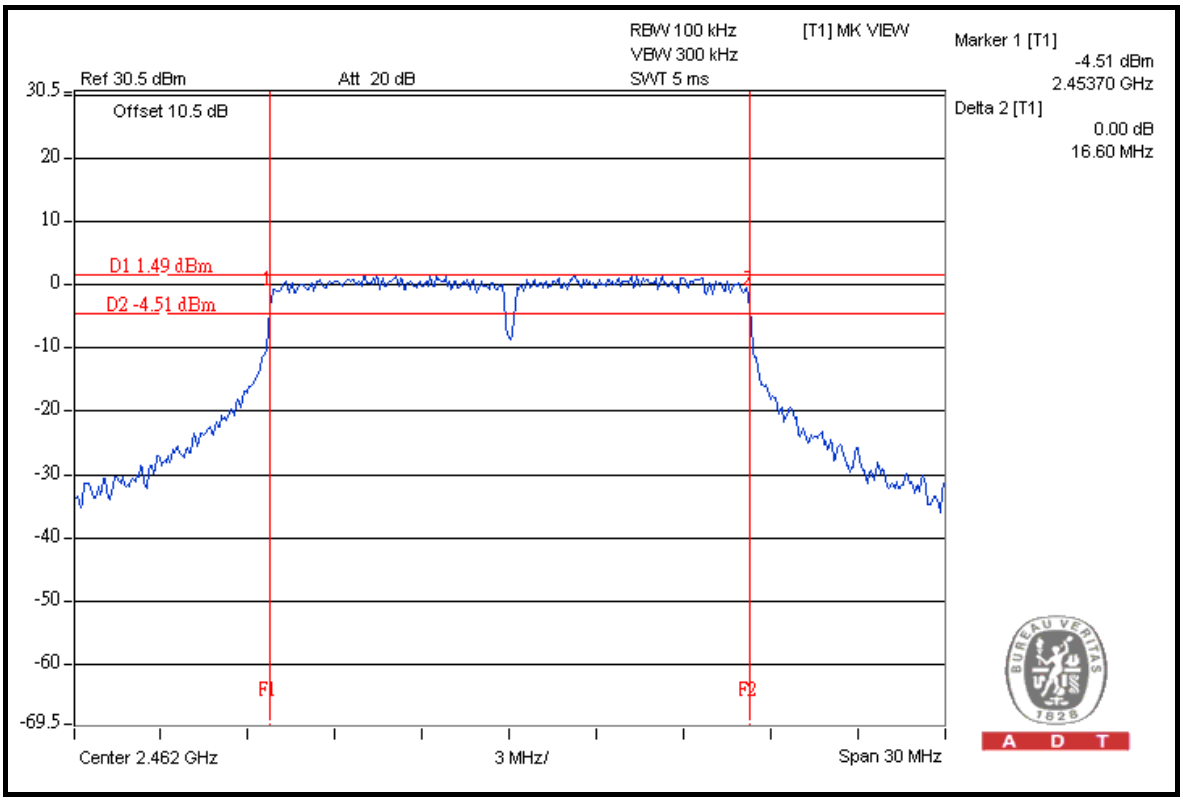
CH 11



802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.59	0.5	PASS
6	2437	16.59	0.5	PASS
11	2462	16.60	0.5	PASS

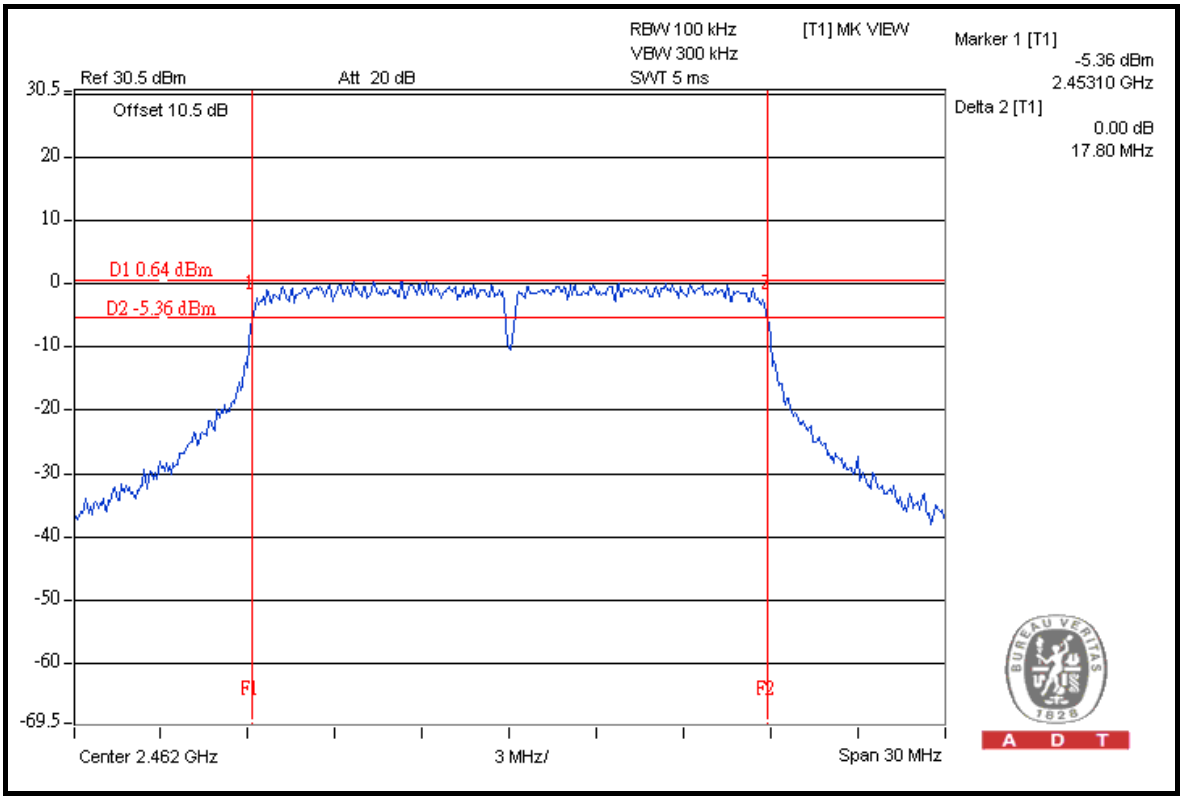
CH 11



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.78	0.5	PASS
6	2437	17.76	0.5	PASS
11	2462	17.80	0.5	PASS

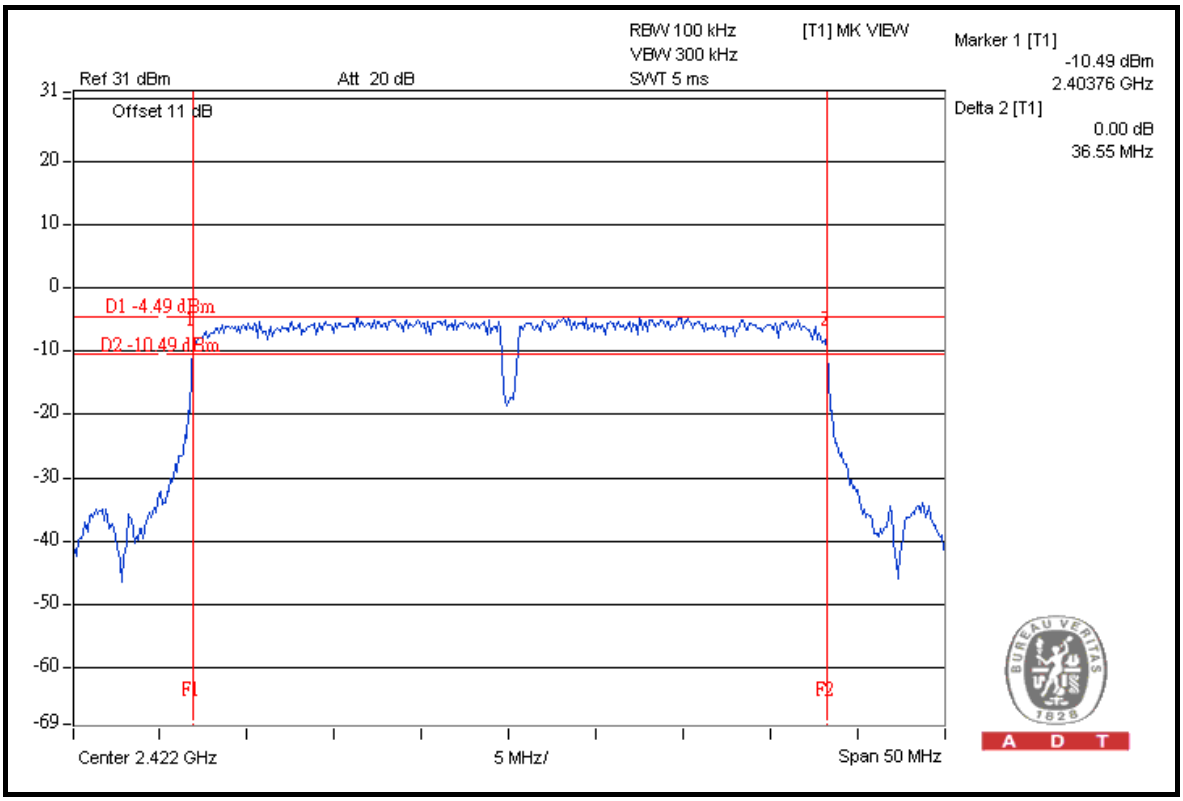
CH 11



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	36.55	0.5	PASS
4	2437	36.53	0.5	PASS
7	2452	36.52	0.5	PASS

CH 1



4.4 MAXIMUM OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
High Speed Peak Power Meter	ML2495A	0842014	Apr. 21, 2010	Apr. 20, 2011
Power Sensor	MA2411B	0738404	Apr. 21, 2010	Apr. 20, 2011

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

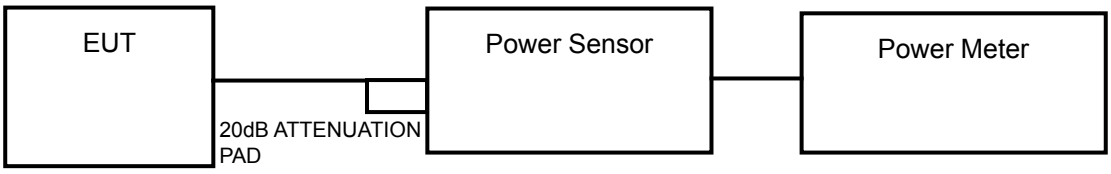
4.4.3 TEST PROCEDURE

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

802.11b

CHAN.	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	69.2	18.4	30	PASS
6	2437	75.9	18.8	30	PASS
11	2462	83.2	19.2	30	PASS

802.11g

CHAN.	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	239.9	23.8	30	PASS
6	2437	**295.1**	24.7	30	PASS
11	2462	257.0	24.1	30	PASS

802.11n (20MHz)

CHAN.	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	199.5	23.0	30	PASS
6	2437	288.4	24.6	30	PASS
11	2462	208.9	23.2	30	PASS

802.11n (40MHz)

CHAN.	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2422	107.2	20.3	30	PASS
4	2437	204.2	23.1	30	PASS
7	2452	112.2	20.5	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.5.3 TEST PROCEDURE

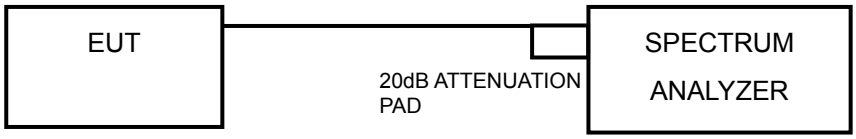
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

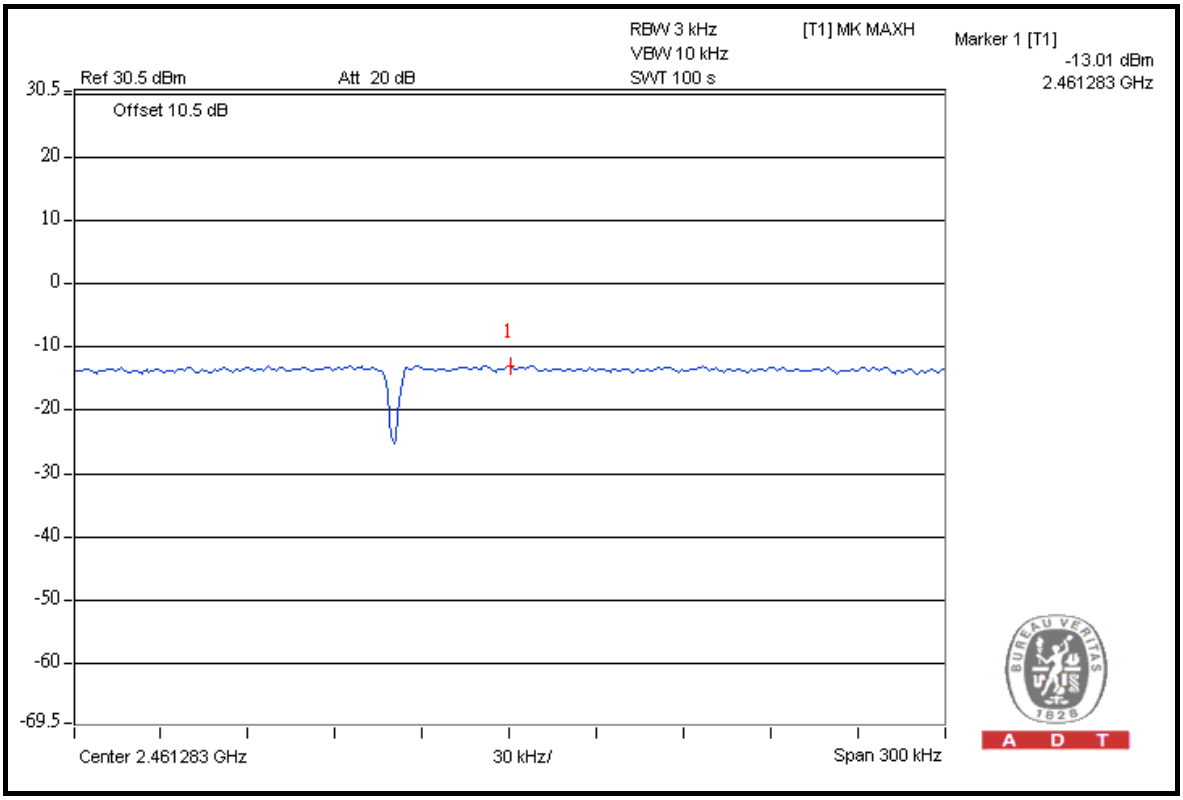
Same as Item 4.3.6

4.5.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-13.7	8	PASS
6	2437	-13.2	8	PASS
11	2462	-13.0	8	PASS

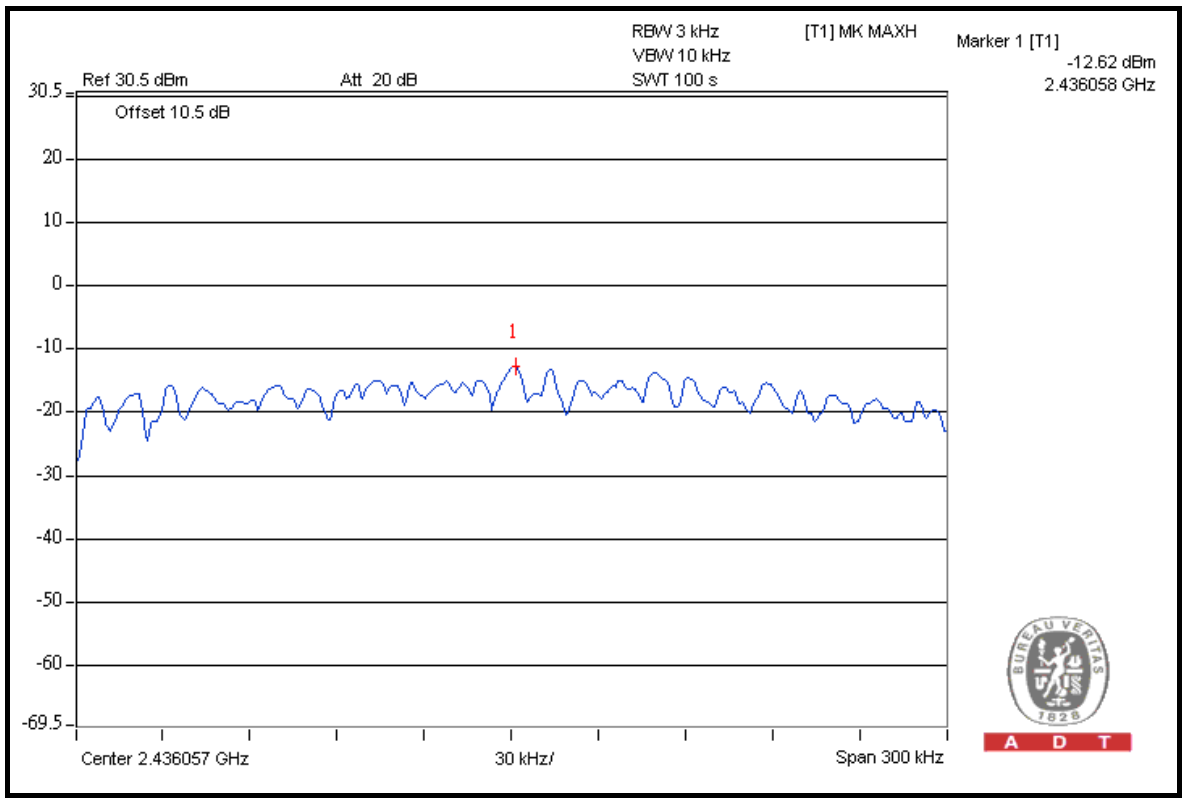
CH 11



802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-13.3	8	PASS
6	2437	-12.6	8	PASS
11	2462	-12.8	8	PASS

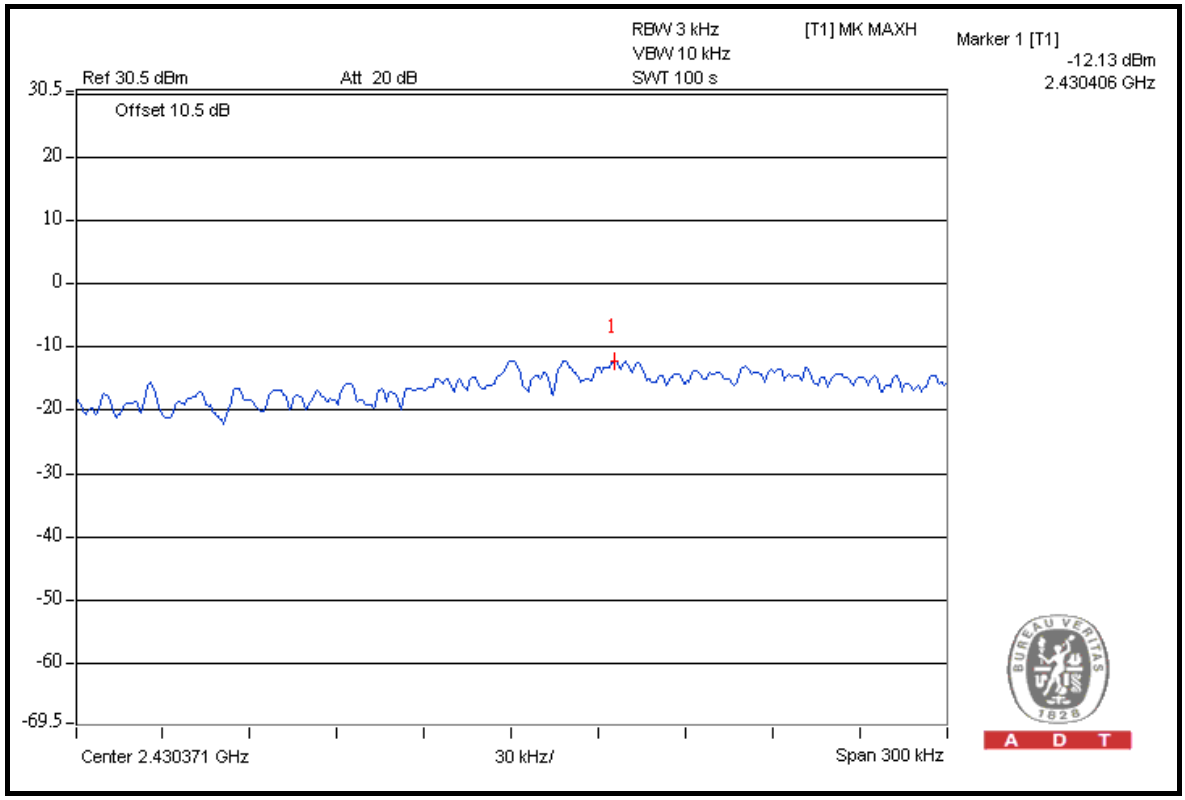
CH 6



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-13.5	8	PASS
6	2437	-12.1	8	PASS
11	2462	-13.6	8	PASS

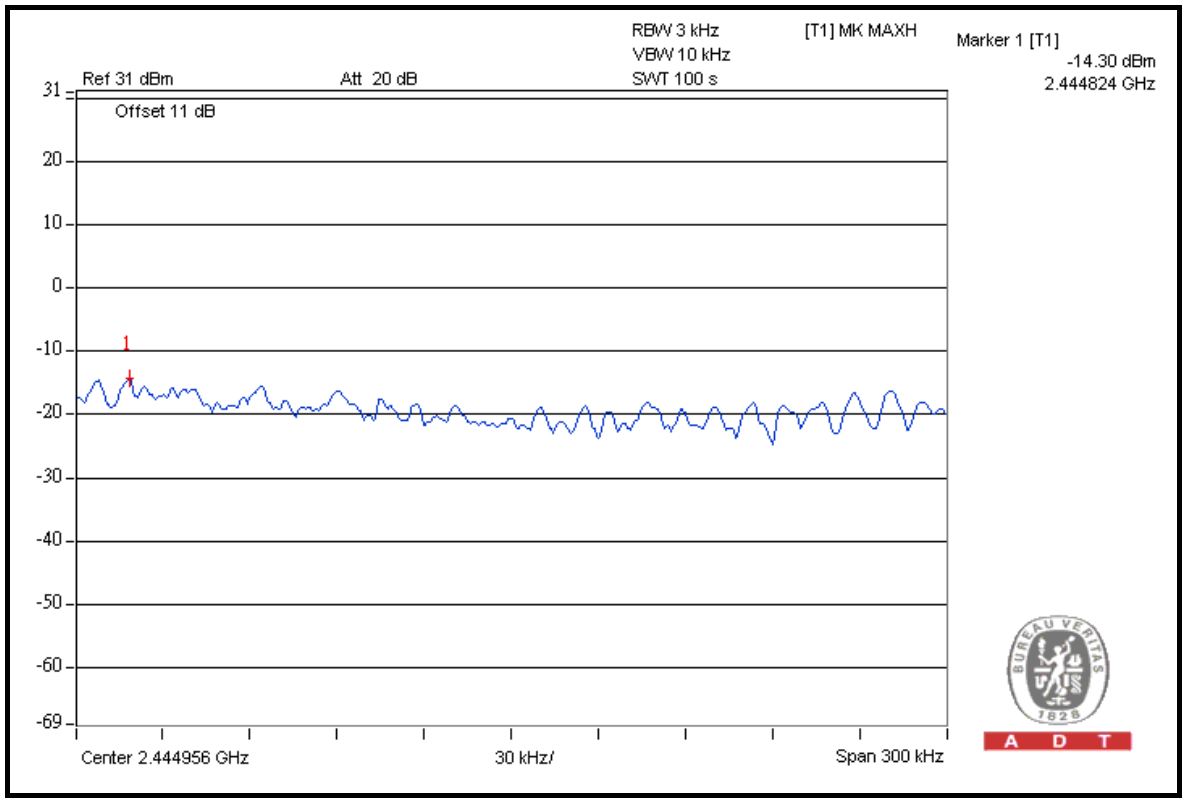
CH 6



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2422	-17.0	8	PASS
4	2437	-14.3	8	PASS
7	2452	-16.8	8	PASS

CH 4



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.6.3 TEST PROCEDURE

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

The spectrum plots (Peak RBW =100kHz, VBW = 300kHz; Average RBW = 1MHz, VBW = 10Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6.

4.6.6 TEST RESULTS

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

802.11b

RESTRICT BAND (2310 ~ 2390 MHz)

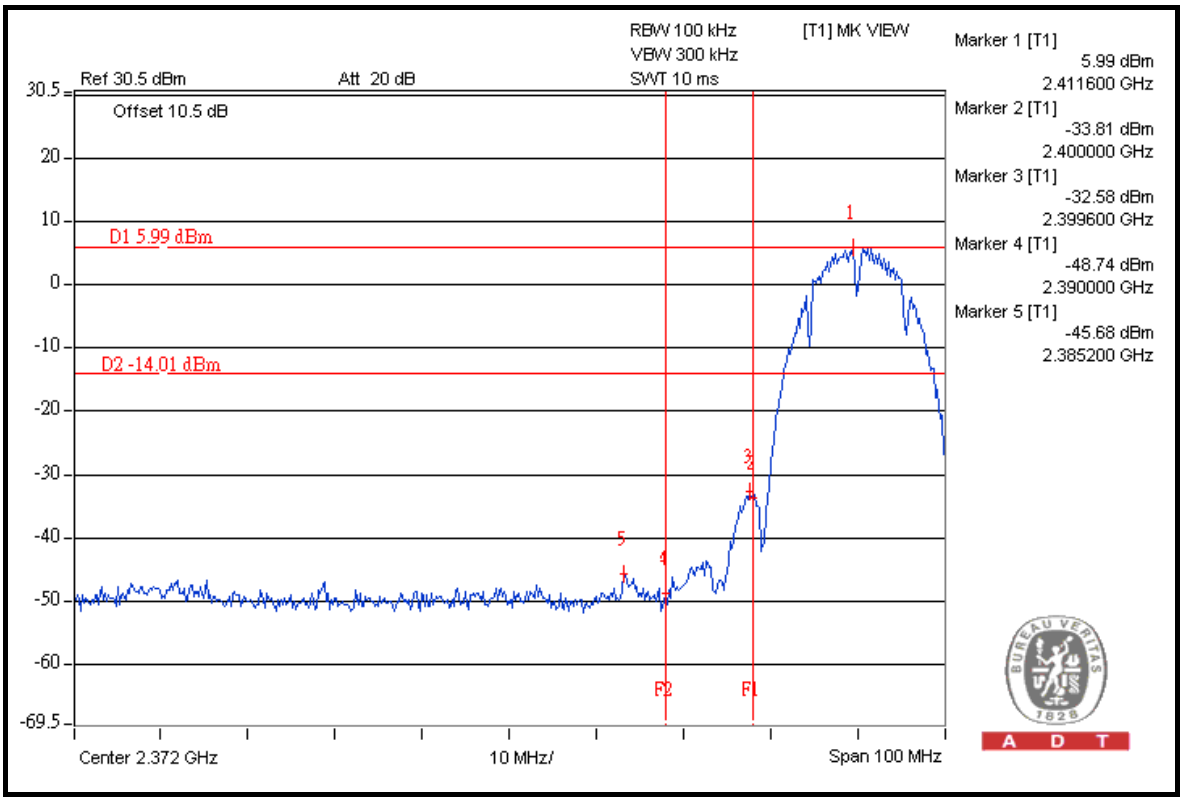
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	107.4	51.67	55.73	74.00
2412.00 (AV)	103.6	57.21	46.39	54.00

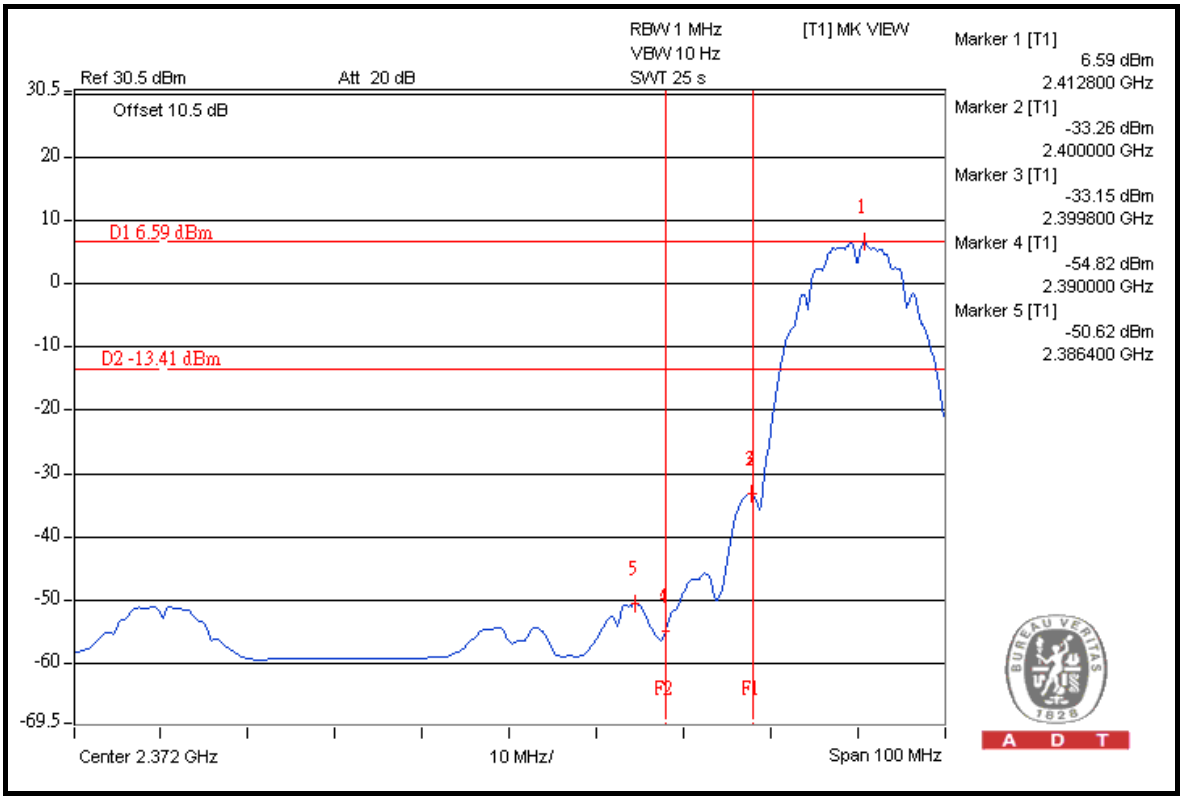
RESTRICT BAND (2483.5 ~ 2500 MHz)

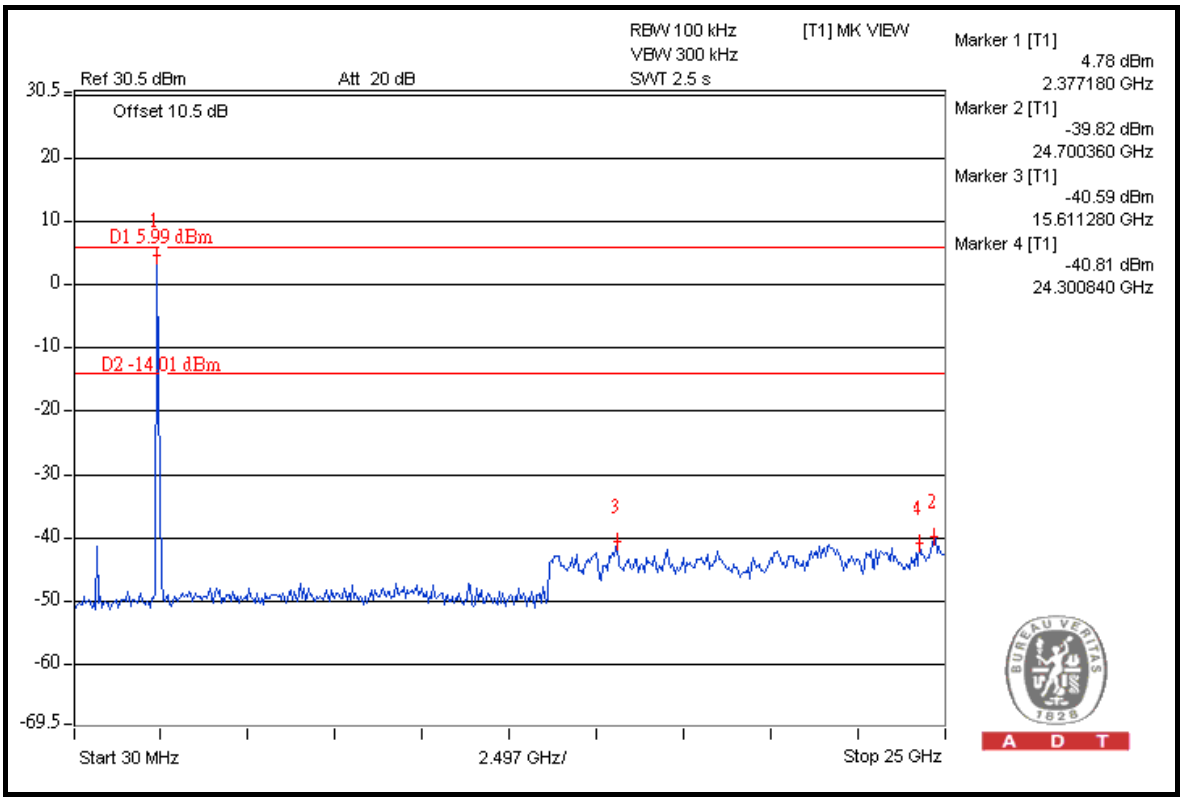
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	108.8	51.93	56.87	74.00
2462.00 (AV)	104.7	56.51	48.19	54.00

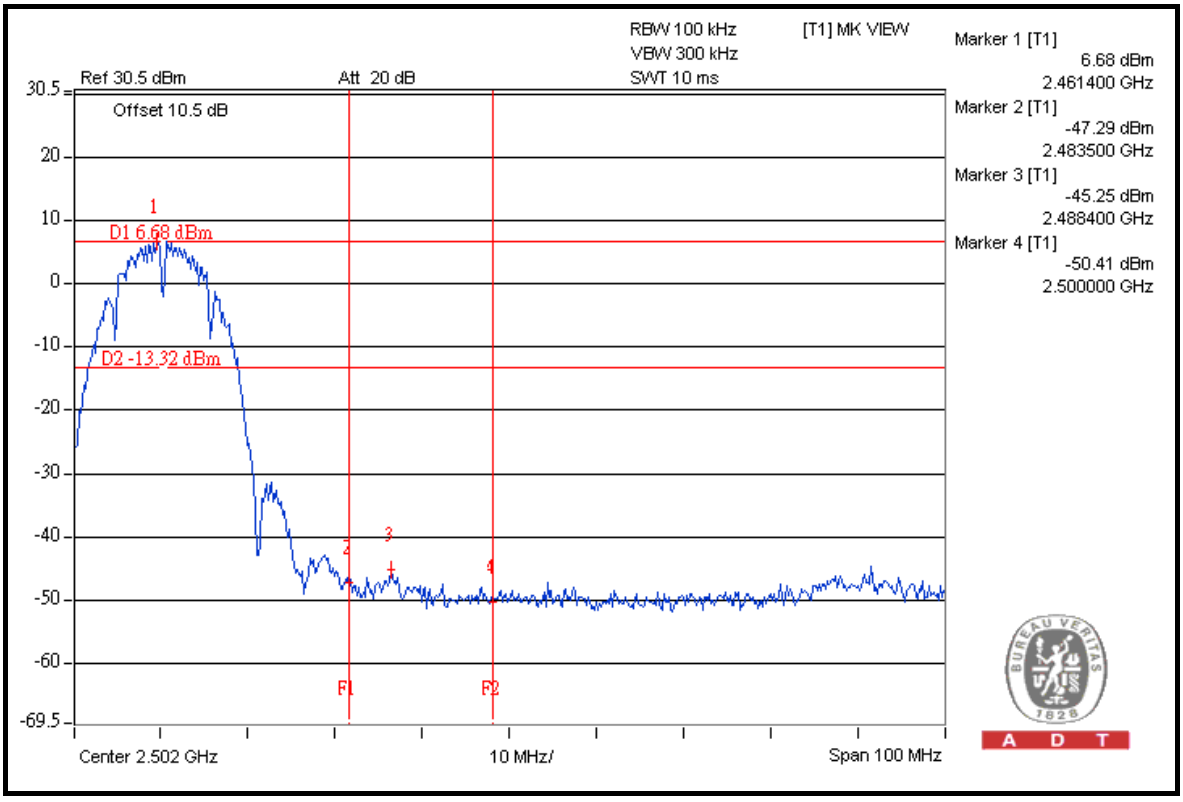
NOTE:

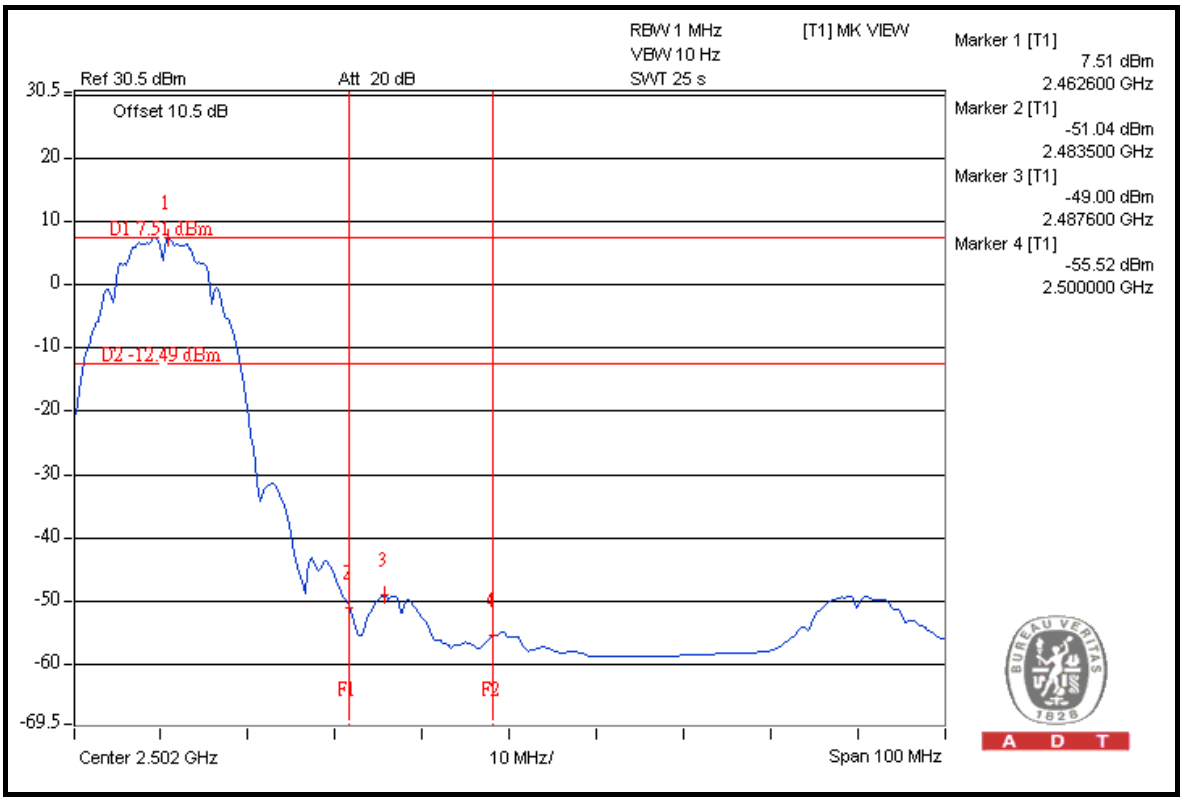
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

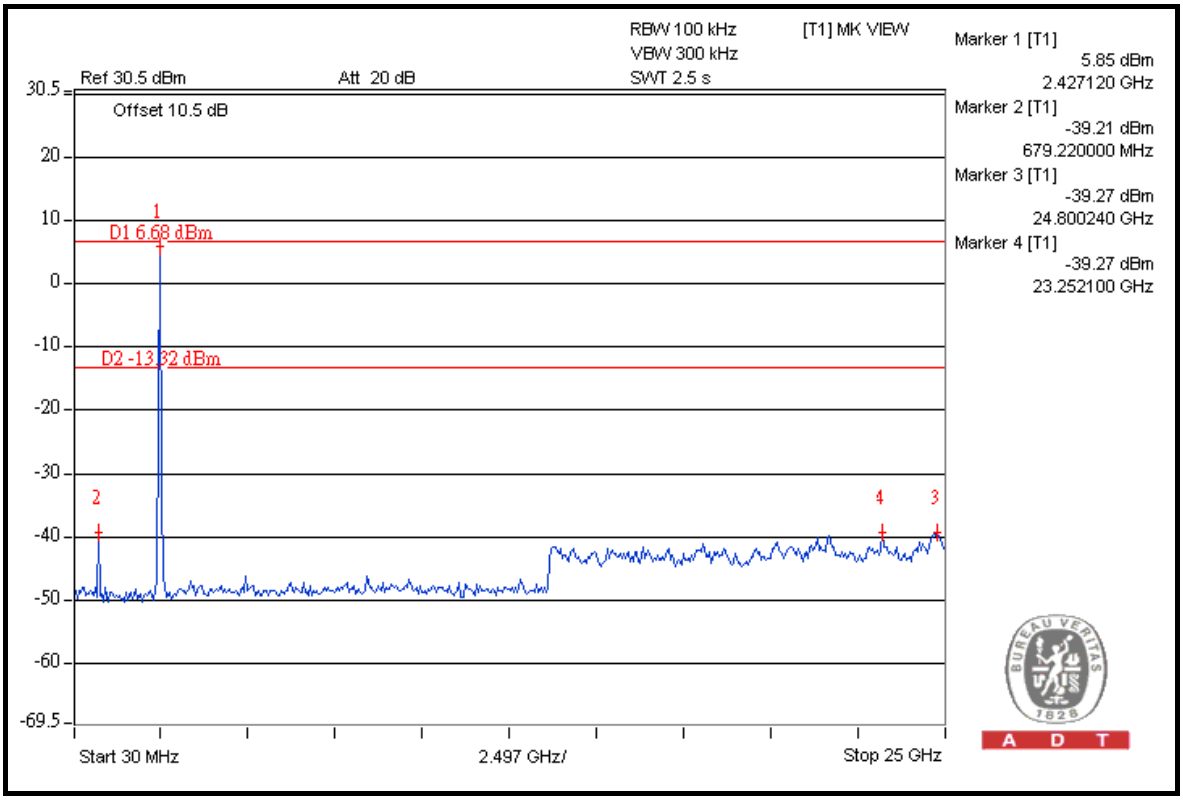

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 5.99 dBm
D2 -14.01 dBm
Marker 1 [T1]
5.99 dBm
2.411600 GHz
Marker 2 [T1]
-33.81 dBm
2.400000 GHz
Marker 3 [T1]
-32.58 dBm
2.399600 GHz
Marker 4 [T1]
-48.74 dBm
2.390000 GHz
Marker 5 [T1]
-45.68 dBm
2.385200 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 6.59 dBm
D2 -13.41 dBm
Marker 1 [T1]
6.59 dBm
2.412800 GHz
Marker 2 [T1]
-33.26 dBm
2.400000 GHz
Marker 3 [T1]
-33.15 dBm
2.399800 GHz
Marker 4 [T1]
-54.82 dBm
2.390000 GHz
Marker 5 [T1]
-50.62 dBm
2.386400 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 5.99 dBm
D2 -14.01 dBm
Marker 1 [T1]
4.78 dBm
2.377180 GHz
Marker 2 [T1]
-39.82 dBm
24.700360 GHz
Marker 3 [T1]
-40.59 dBm
15.611280 GHz
Marker 4 [T1]
-40.81 dBm
24.300840 GHz
30.5
20
10
0
-10
-20
-30
-40
-50
-60
-69.5
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 6.68 dBm
D2 -13.32 dBm
Marker 1 [T1]
6.68 dBm
2.461400 GHz
Marker 2 [T1]
-47.29 dBm
2.483500 GHz
Marker 3 [T1]
-45.25 dBm
2.488400 GHz
Marker 4 [T1]
-50.41 dBm
2.500000 GHz
30.5
20
10
0
-10
-20
-30
-40
-50
-60
-69.5
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 7.51 dBm
D2 -12.49 dBm
Marker 1 [T1]
7.51 dBm
2.462600 GHz
Marker 2 [T1]
-51.04 dBm
2.483500 GHz
Marker 3 [T1]
-49.00 dBm
2.487600 GHz
Marker 4 [T1]
-55.52 dBm
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 6.68 dBm
D2 -13.32 dBm
Marker 1 [T1]
5.85 dBm
2.427120 GHz
Marker 2 [T1]
-39.21 dBm
679.220000 MHz
Marker 3 [T1]
-39.27 dBm
24.800240 GHz
Marker 4 [T1]
-39.27 dBm
23.252100 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11g

RESTRICT BAND (2310 ~ 2390 MHz)

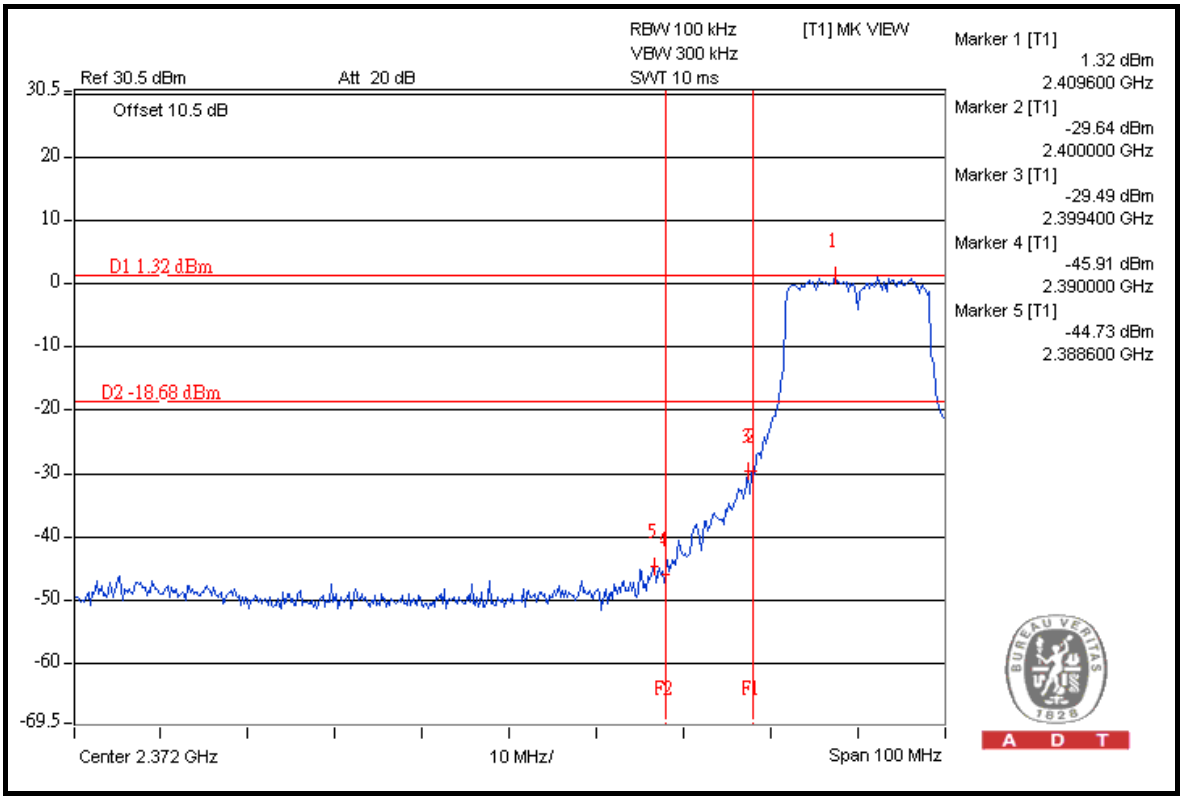
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	108.6	46.05	62.55	74.00
2412.00 (AV)	99.3	50.83	48.47	54.00

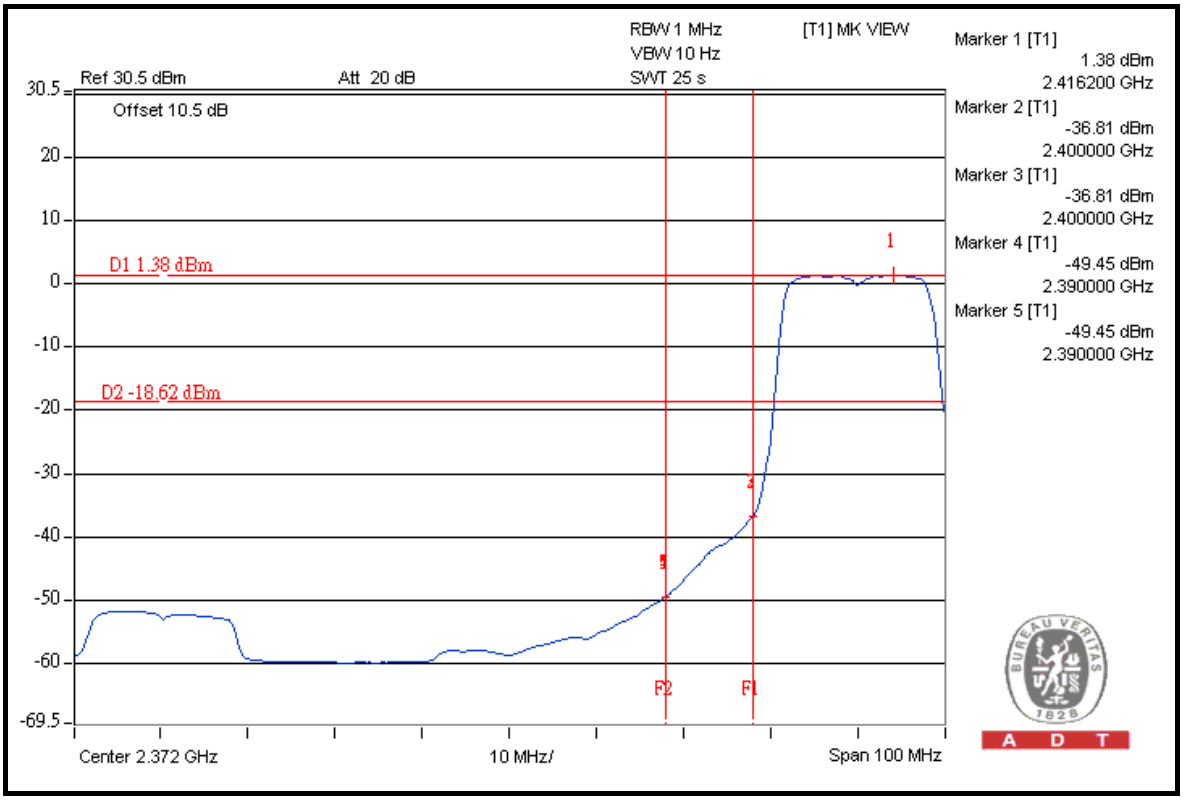
RESTRICT BAND (2483.5 ~ 2500 MHz)

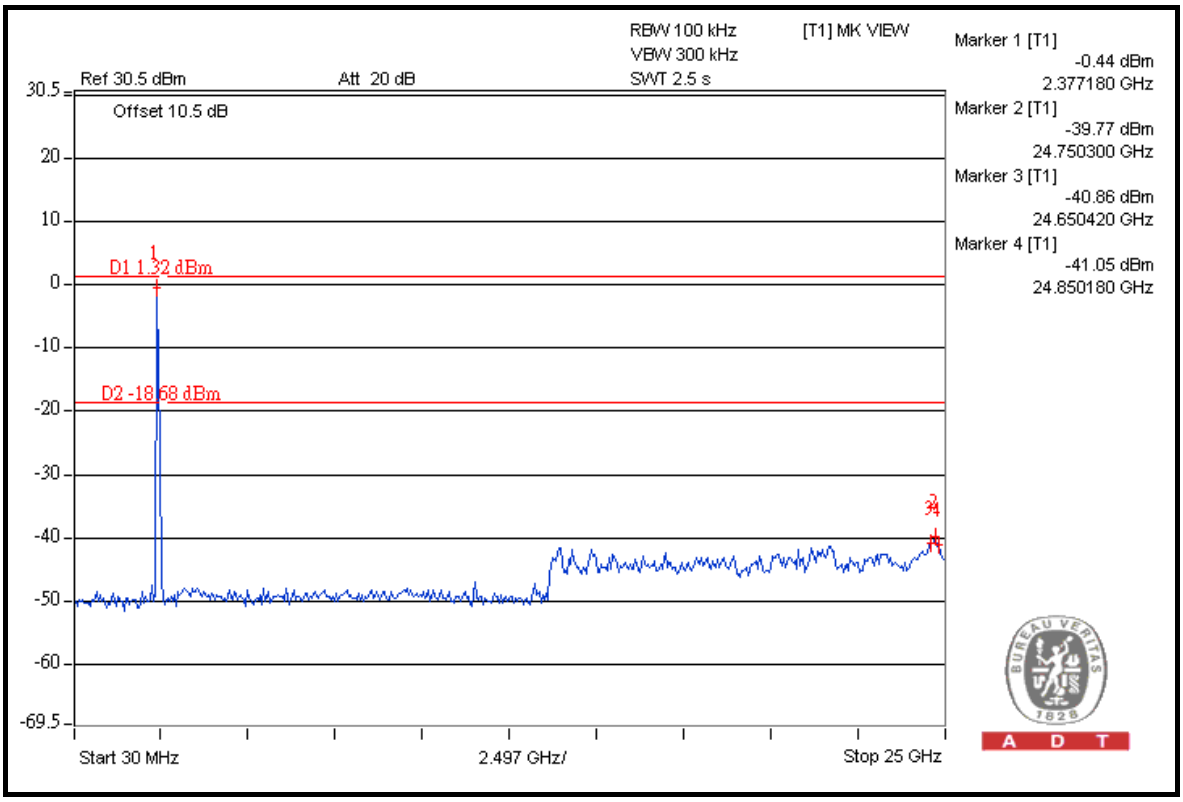
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	108.0	42.48	65.52	74.00
2462.00 (AV)	98.5	49.21	49.29	54.00

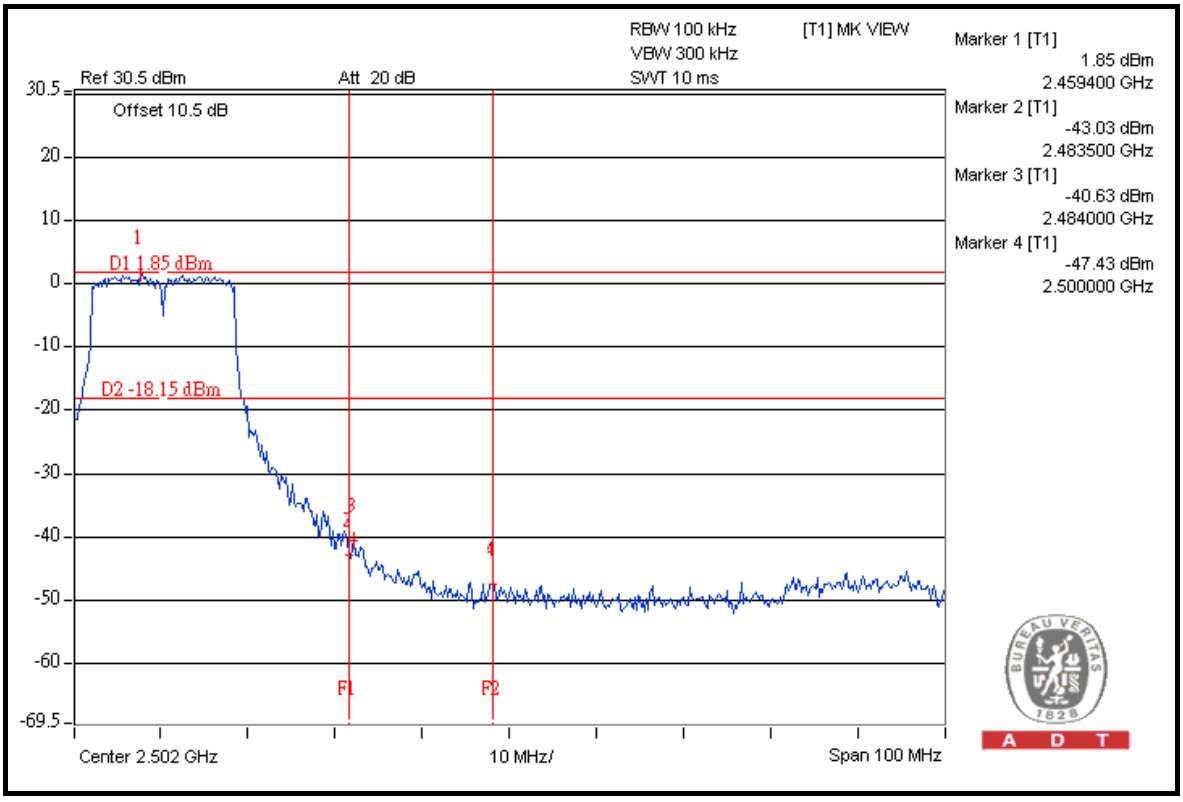
NOTE:

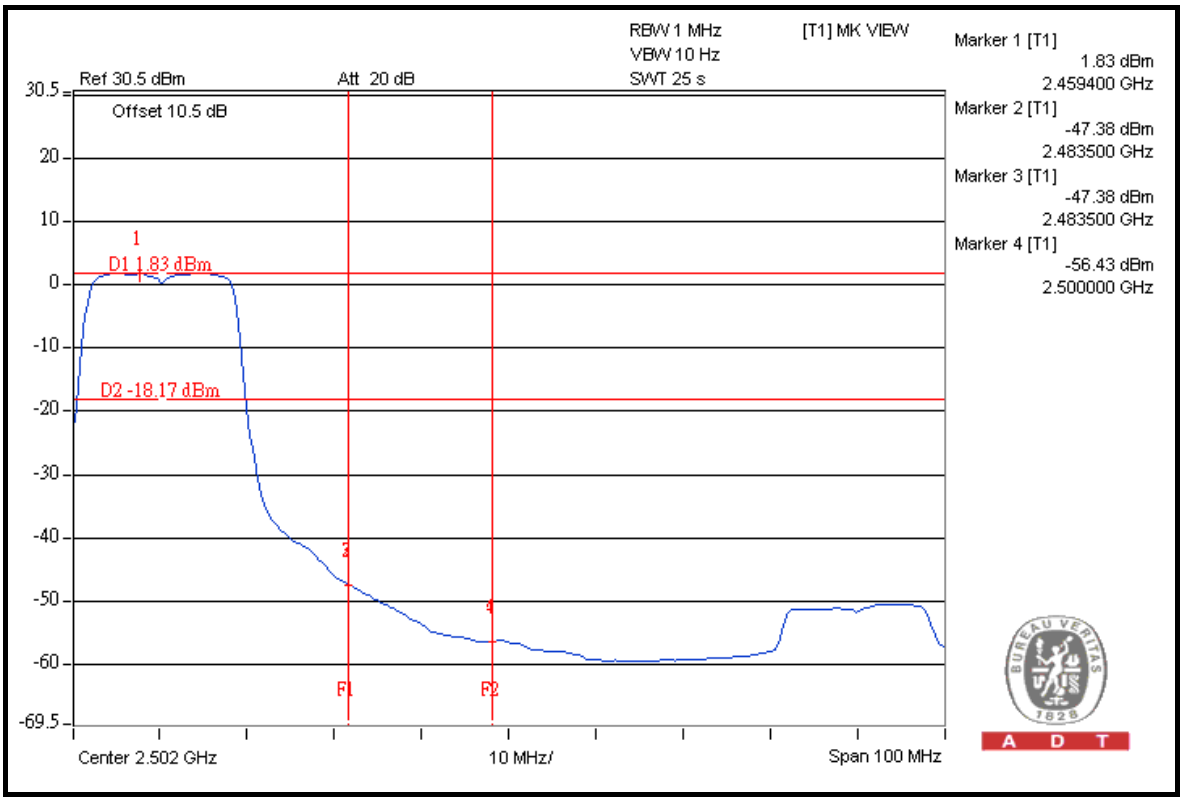
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

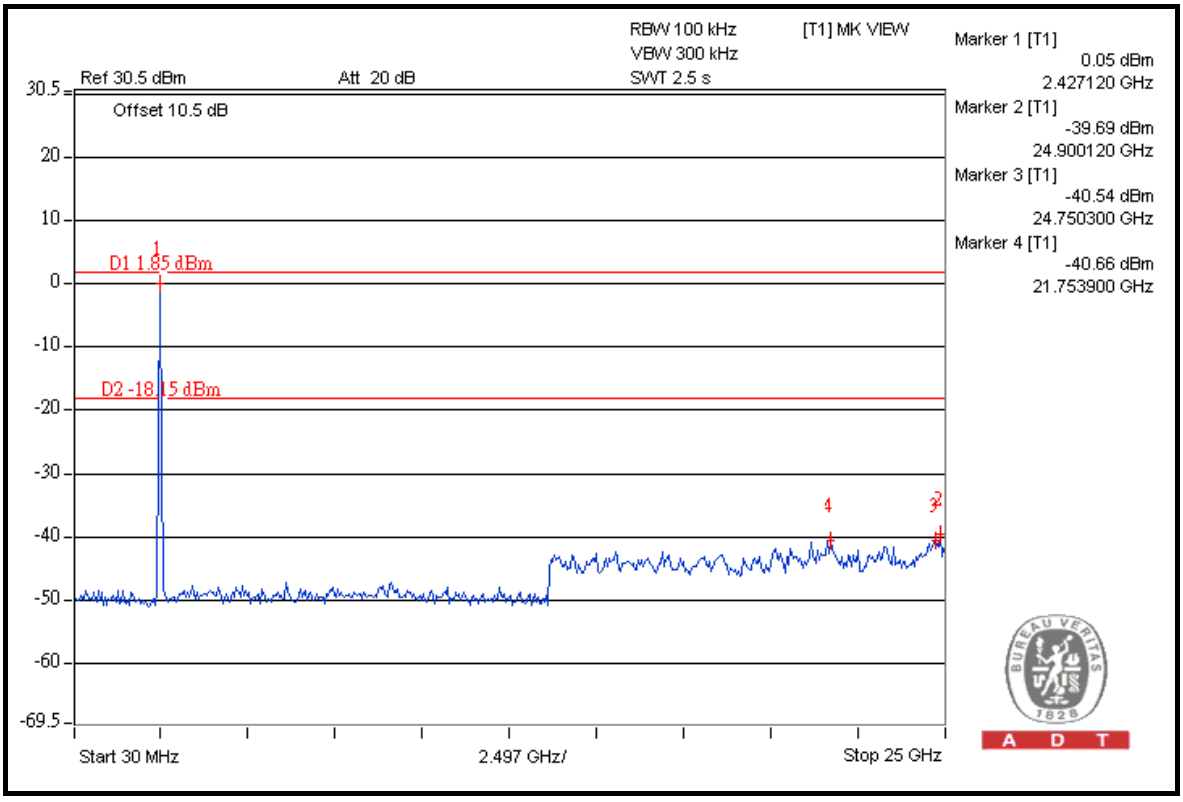

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 1.32 dBm
D2 -18.68 dBm
Marker 1 [T1]
1.32 dBm
2.409600 GHz
Marker 2 [T1]
-29.64 dBm
2.400000 GHz
Marker 3 [T1]
-29.49 dBm
2.399400 GHz
Marker 4 [T1]
-45.91 dBm
2.390000 GHz
Marker 5 [T1]
-44.73 dBm
2.388600 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 1.38 dBm
D2 -18.62 dBm
Marker 1 [T1]
1.38 dBm
2.416200 GHz
Marker 2 [T1]
-36.81 dBm
2.400000 GHz
Marker 3 [T1]
-36.81 dBm
2.400000 GHz
Marker 4 [T1]
-49.45 dBm
2.390000 GHz
Marker 5 [T1]
-49.45 dBm
2.390000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 1.32 dBm
D2 -18.68 dBm
Marker 1 [T1]
-0.44 dBm
2.377180 GHz
Marker 2 [T1]
-39.77 dBm
24.750300 GHz
Marker 3 [T1]
-40.86 dBm
24.650420 GHz
Marker 4 [T1]
-41.05 dBm
24.850180 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 1.85 dBm
D2 -18.15 dBm
Marker 1 [T1]
1.85 dBm
2.459400 GHz
Marker 2 [T1]
-43.03 dBm
2.483500 GHz
Marker 3 [T1]
-40.63 dBm
2.484000 GHz
Marker 4 [T1]
-47.43 dBm
2.500000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 1.83 dBm
D2 -18.17 dBm
Marker 1 [T1]
1.83 dBm
2.459400 GHz
Marker 2 [T1]
-47.38 dBm
2.483500 GHz
Marker 3 [T1]
-47.38 dBm
2.483500 GHz
Marker 4 [T1]
-56.43 dBm
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 1.85 dBm
D2 -18.15 dBm
Marker 1 [T1]
0.05 dBm
2.427120 GHz
Marker 2 [T1]
-39.69 dBm
24.900120 GHz
Marker 3 [T1]
-40.54 dBm
24.750300 GHz
Marker 4 [T1]
-40.66 dBm
21.753900 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11n (20MHz)

RESTRICT BAND (2310 ~ 2390 MHz)

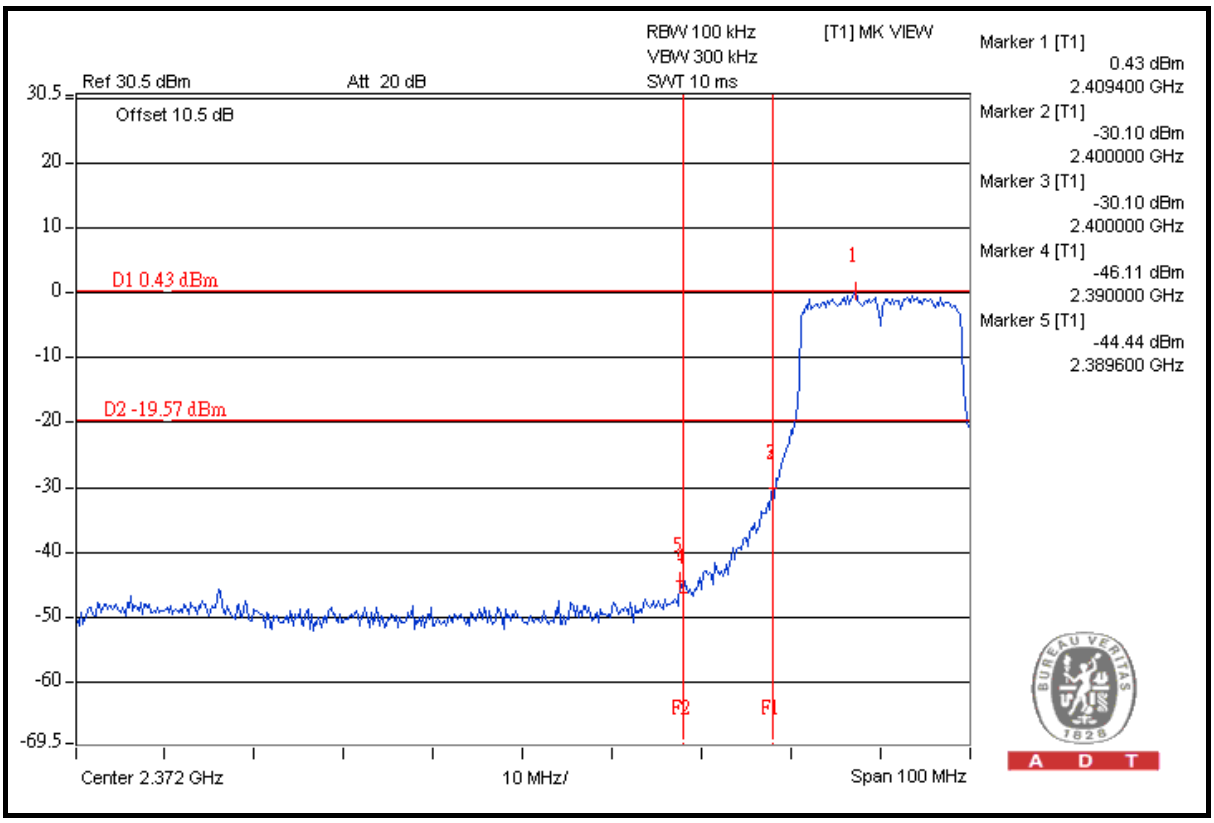
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	106.2	44.87	61.33	74.00
2412.00 (AV)	97.0	51.69	45.31	54.00

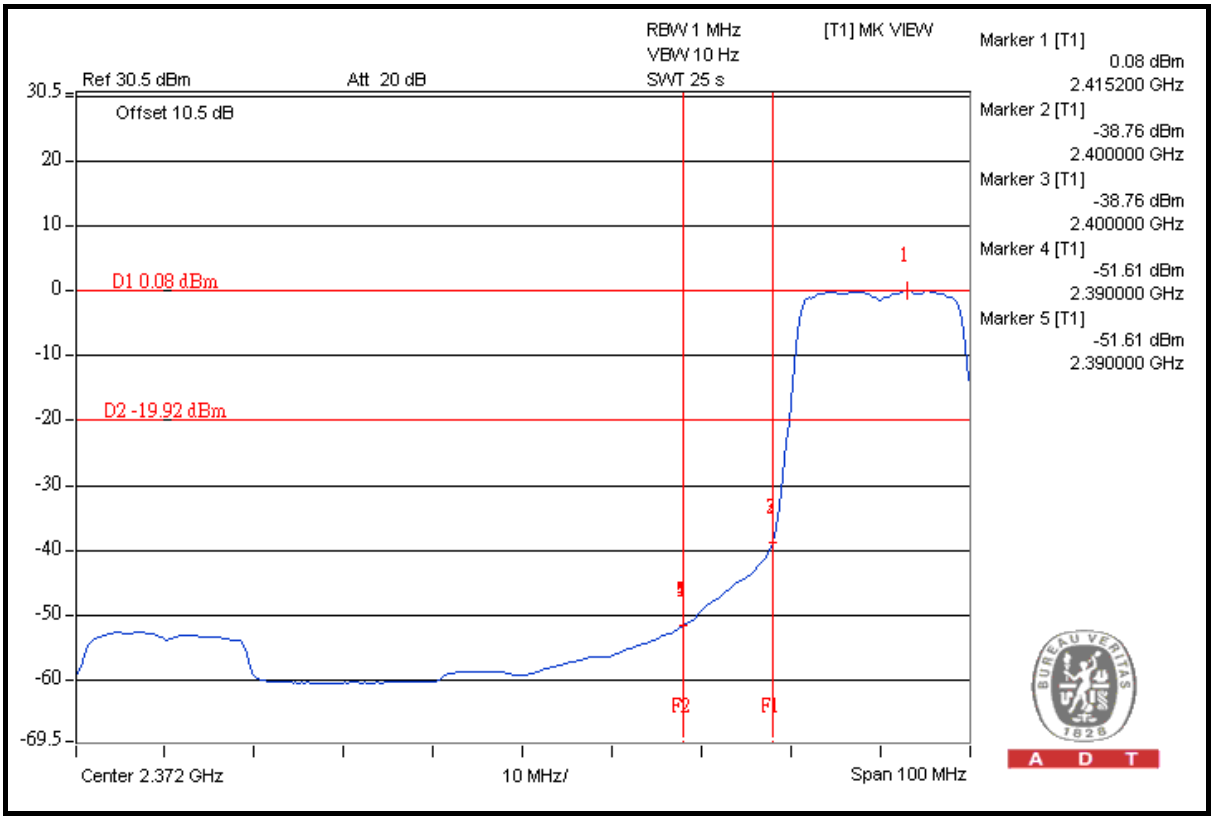
RESTRICT BAND (2483.5 ~ 2500 MHz)

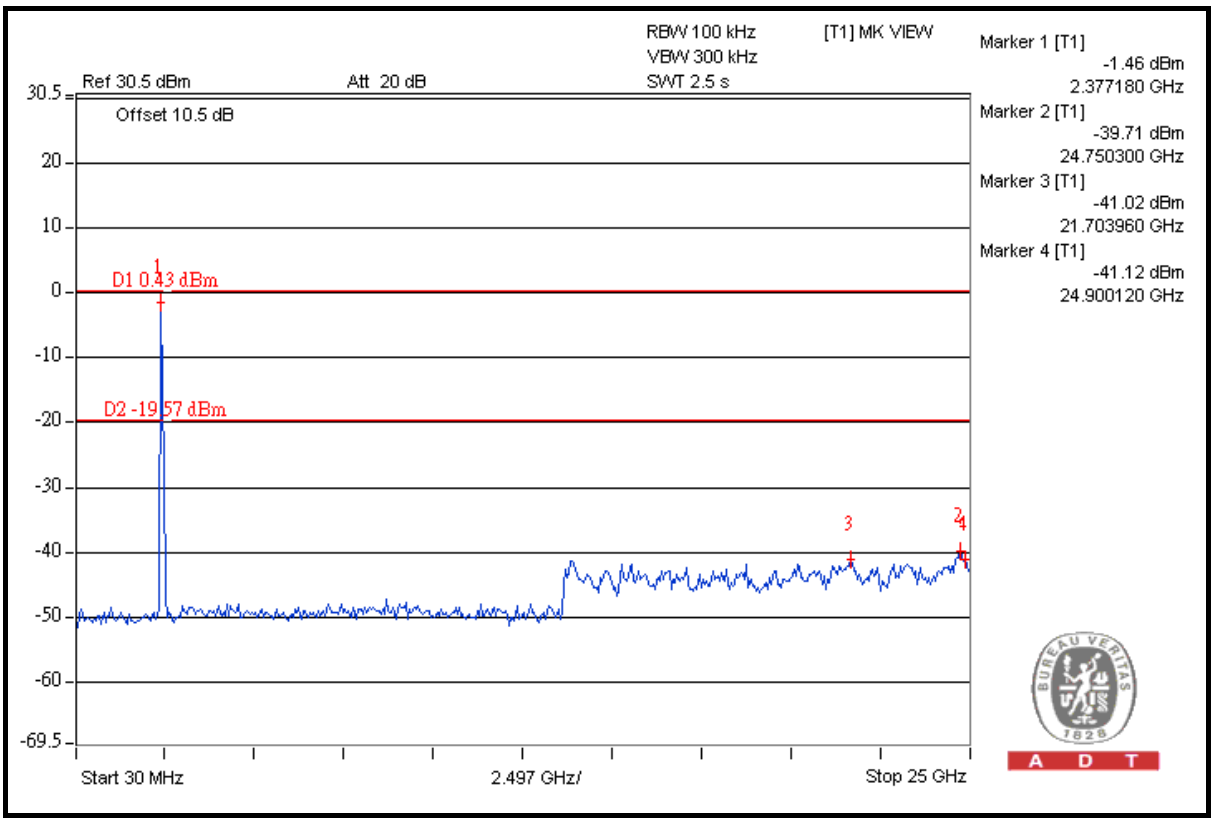
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	106.7	43.14	63.56	74.00
2462.00 (AV)	97.7	50.95	46.75	54.00

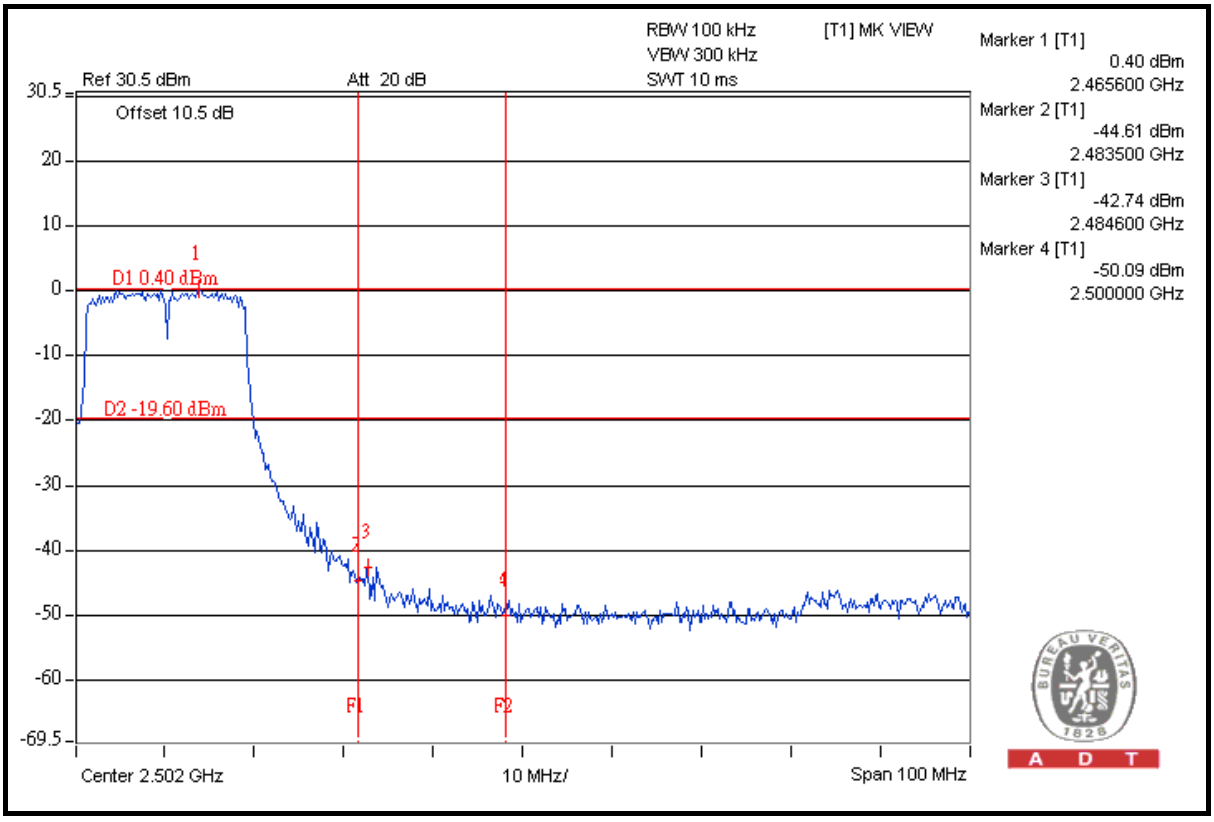
NOTE:

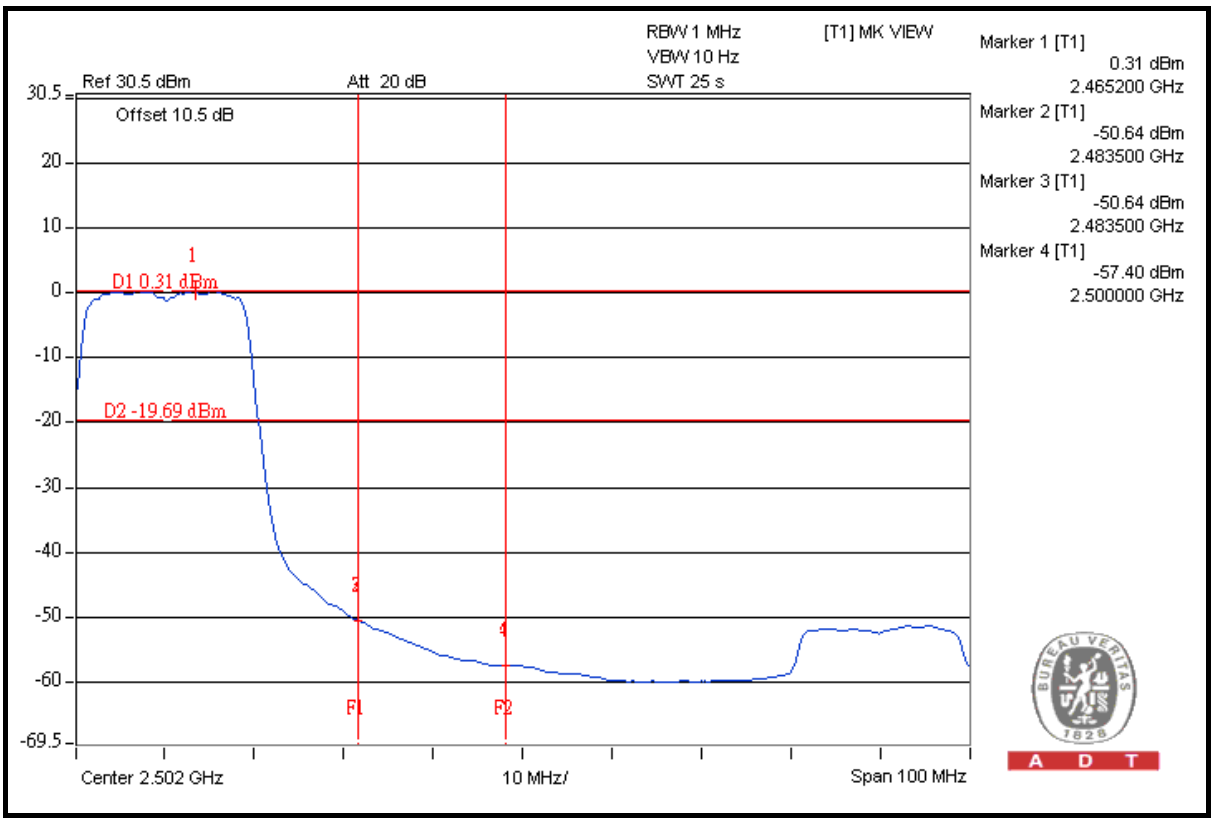
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

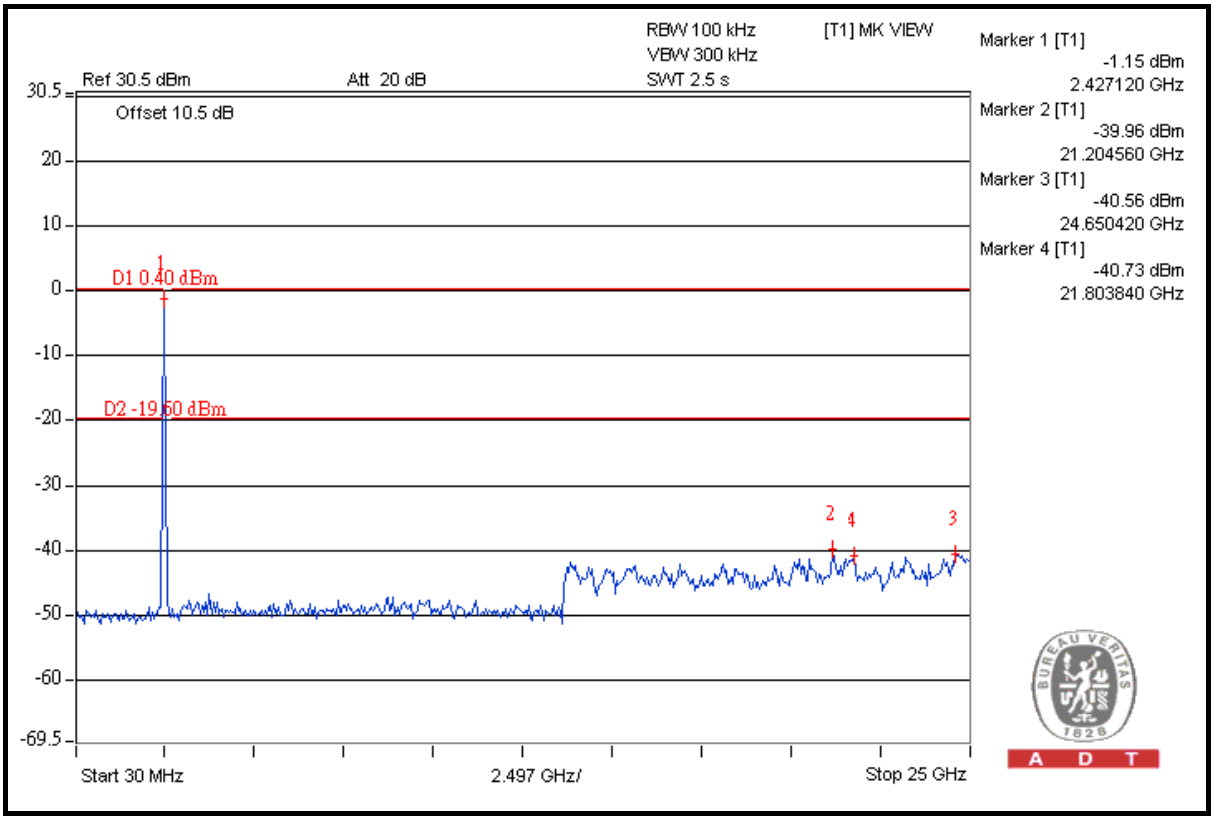

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 0.43 dBm
D2 -19.57 dBm
Marker 1 [T1]
0.43 dBm
2.409400 GHz
Marker 2 [T1]
-30.10 dBm
2.400000 GHz
Marker 3 [T1]
-30.10 dBm
2.400000 GHz
Marker 4 [T1]
-46.11 dBm
2.390000 GHz
Marker 5 [T1]
-44.44 dBm
2.389600 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 0.08 dBm
D2 -19.92 dBm
Marker 1 [T1]
0.08 dBm
2.415200 GHz
Marker 2 [T1]
-38.76 dBm
2.400000 GHz
Marker 3 [T1]
-38.76 dBm
2.400000 GHz
Marker 4 [T1]
-51.61 dBm
2.390000 GHz
Marker 5 [T1]
-51.61 dBm
2.390000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 0.43 dBm
D2 -19.57 dBm
Marker 1 [T1]
-1.46 dBm
2.377180 GHz
Marker 2 [T1]
-39.71 dBm
24.750300 GHz
Marker 3 [T1]
-41.02 dBm
21.703960 GHz
Marker 4 [T1]
-41.12 dBm
24.900120 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 0.40 dBm
D2 -19.60 dBm
Marker 1 [T1]
0.40 dBm
2.465600 GHz
Marker 2 [T1]
-44.61 dBm
2.483500 GHz
Marker 3 [T1]
-42.74 dBm
2.484600 GHz
Marker 4 [T1]
-50.09 dBm
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 0.31 dBm
D2 -19.69 dBm
Marker 1 [T1]
0.31 dBm
2.465200 GHz
Marker 2 [T1]
-50.64 dBm
2.483500 GHz
Marker 3 [T1]
-50.64 dBm
2.483500 GHz
Marker 4 [T1]
-57.40 dBm
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 30.5 dBm
Att 20 dB
Offset 10.5 dB
D1 0.40 dBm
D2 -19.60 dBm
Marker 1 [T1]
-1.15 dBm
2.427120 GHz
Marker 2 [T1]
-39.96 dBm
21.204560 GHz
Marker 3 [T1]
-40.56 dBm
24.650420 GHz
Marker 4 [T1]
-40.73 dBm
21.803840 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11n (40MHz)

RESTRICT BAND (2310 ~ 2390 MHz)

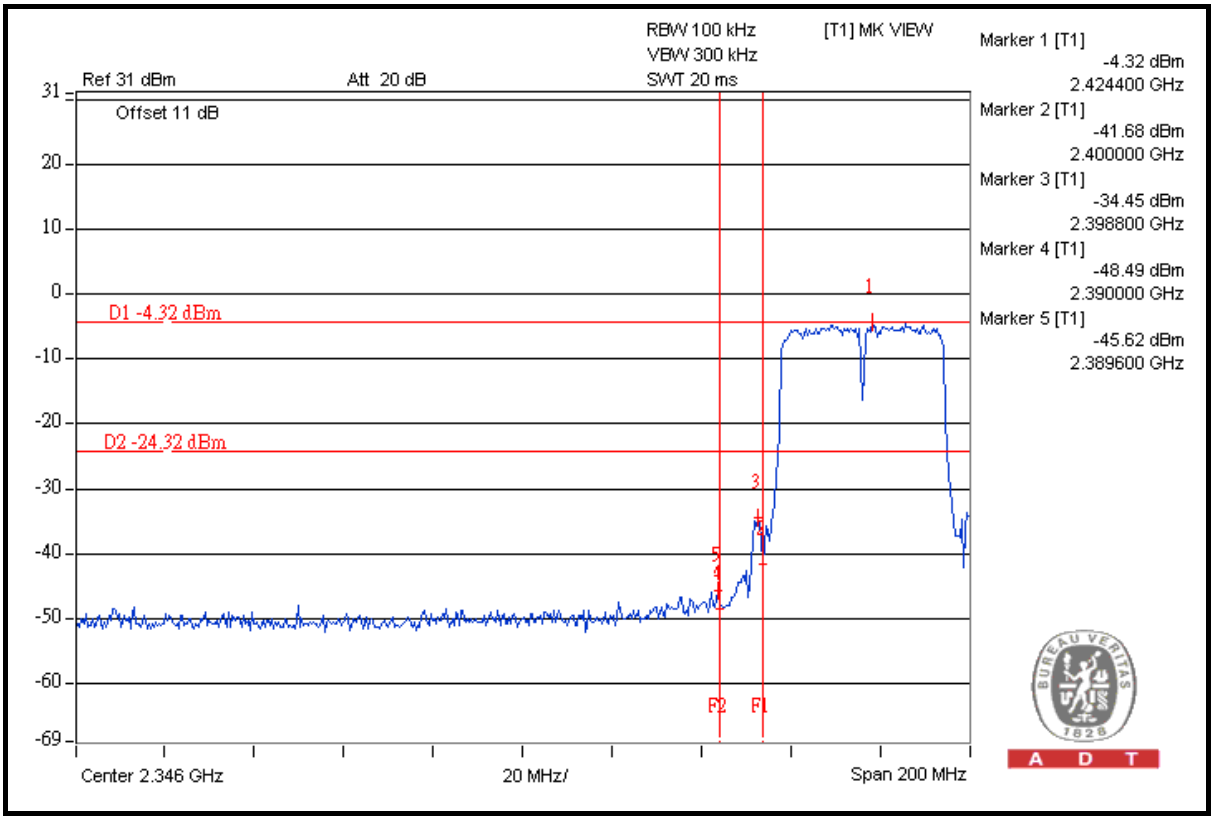
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2422.00 (PK)	103.6	41.30	62.30	74.00
2422.00 (AV)	93.4	47.50	45.90	54.00

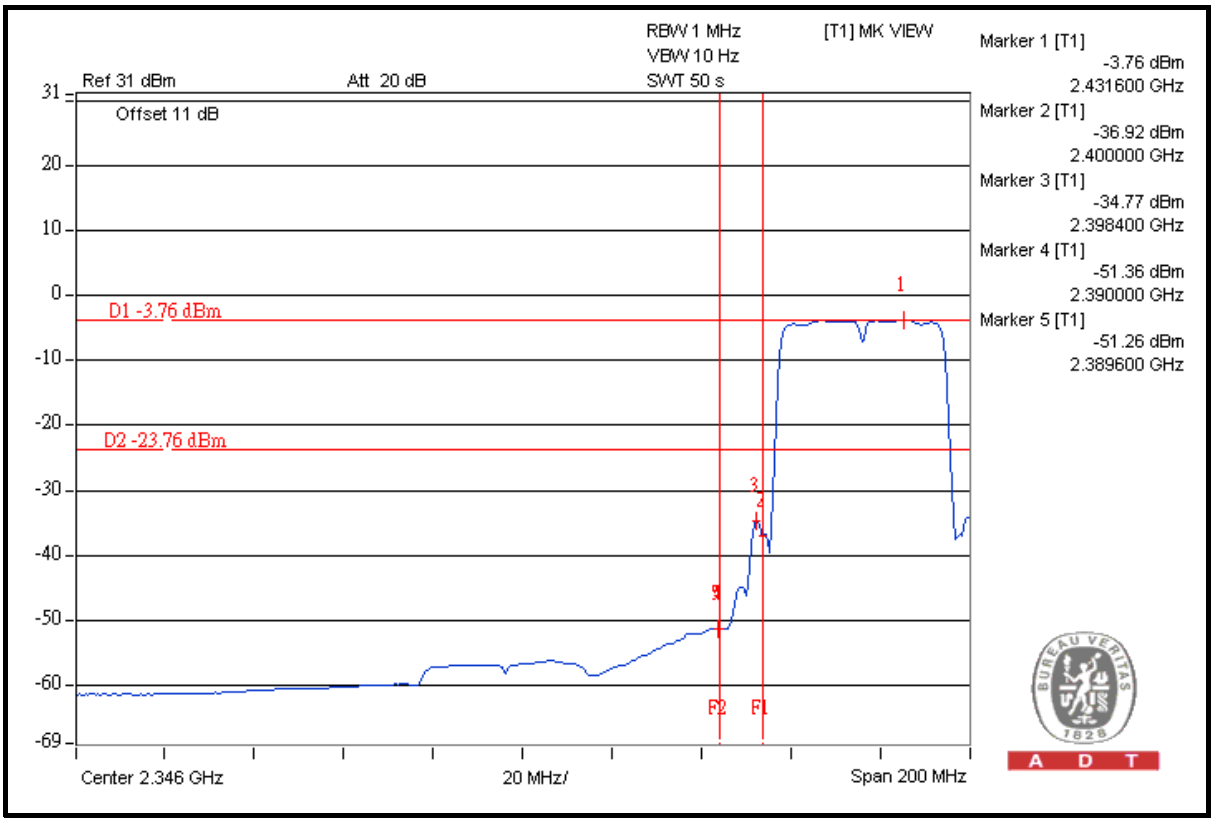
RESTRICT BAND (2483.5 ~ 2500 MHz)

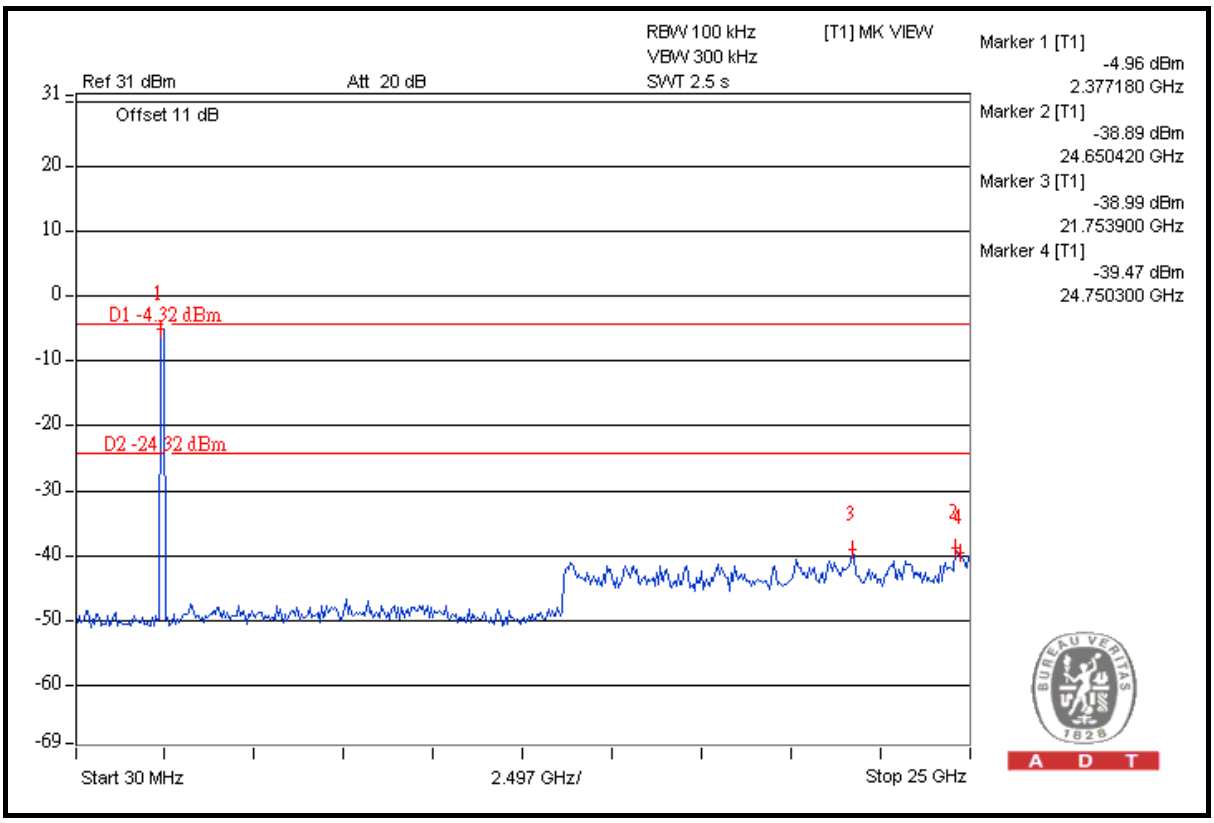
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2452.00 (PK)	103.5	41.88	61.62	74.00
2452.00 (AV)	93.2	46.13	47.07	54.00

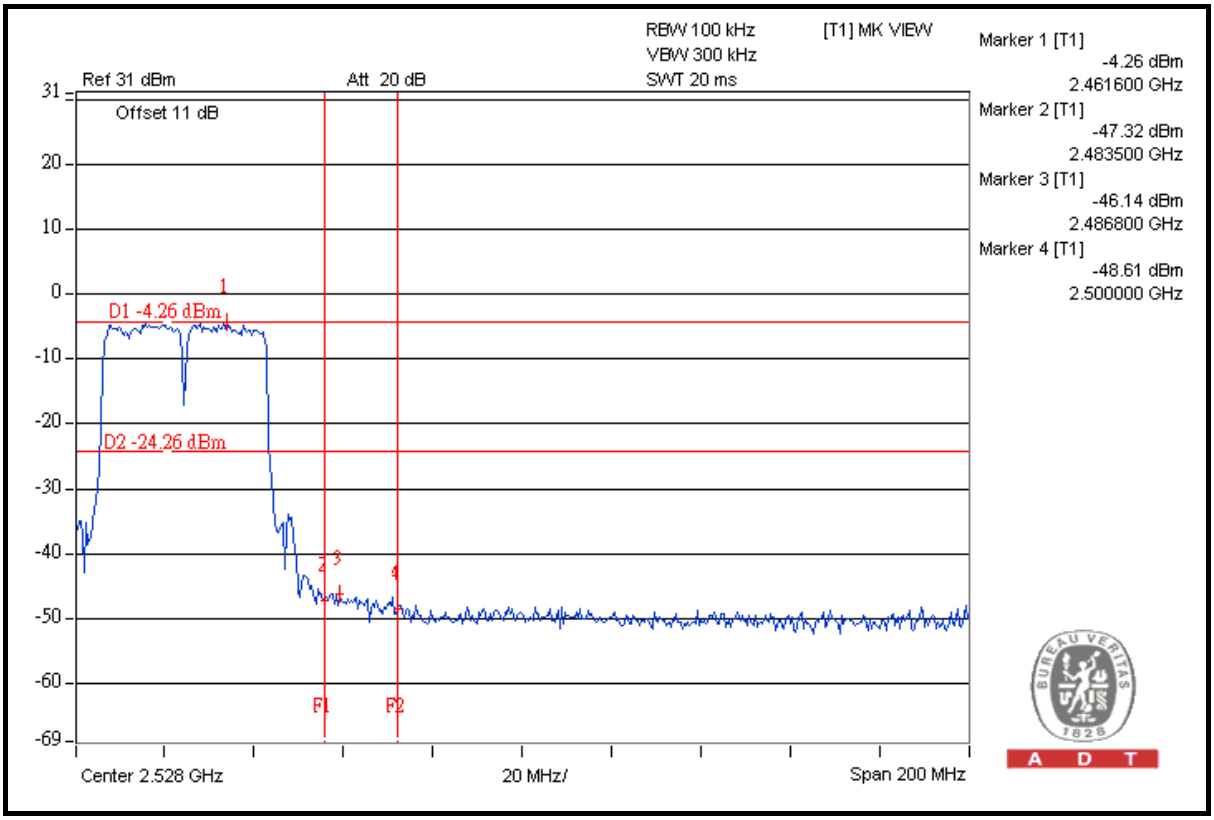
NOTE:

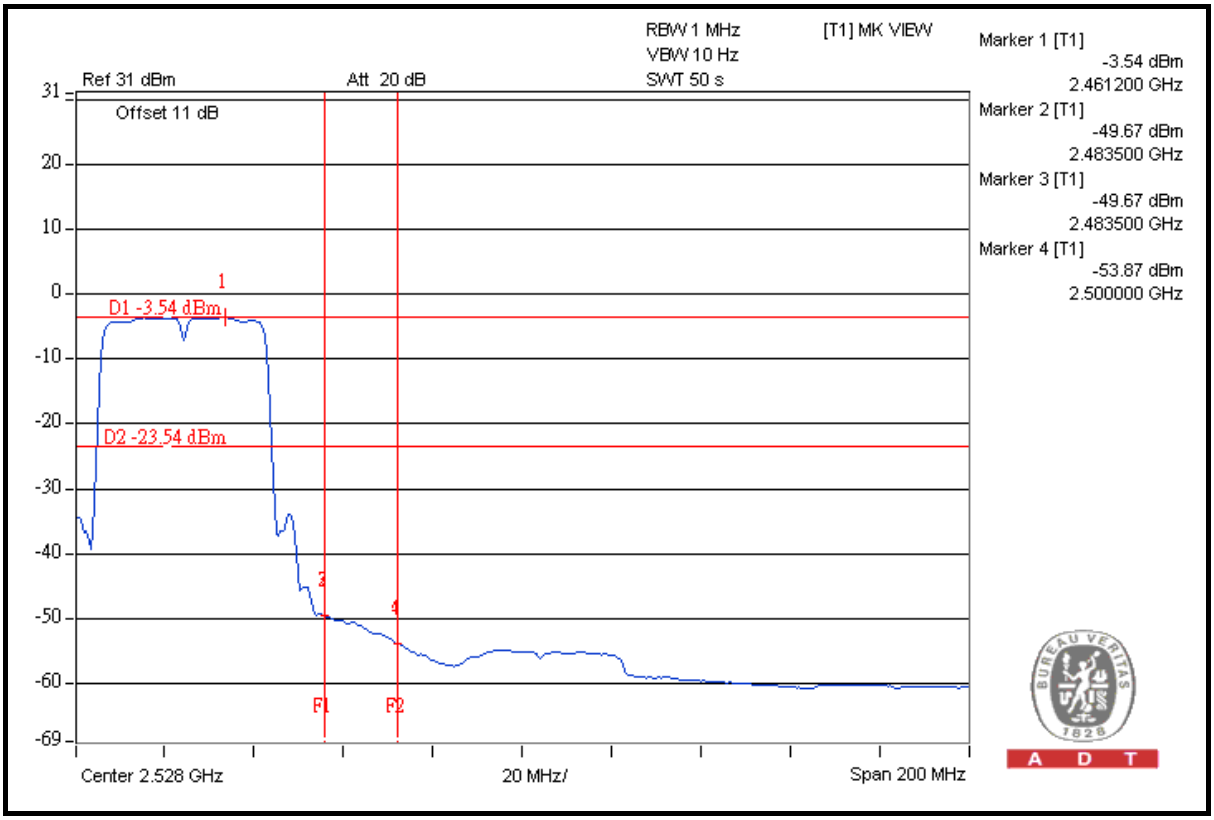
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

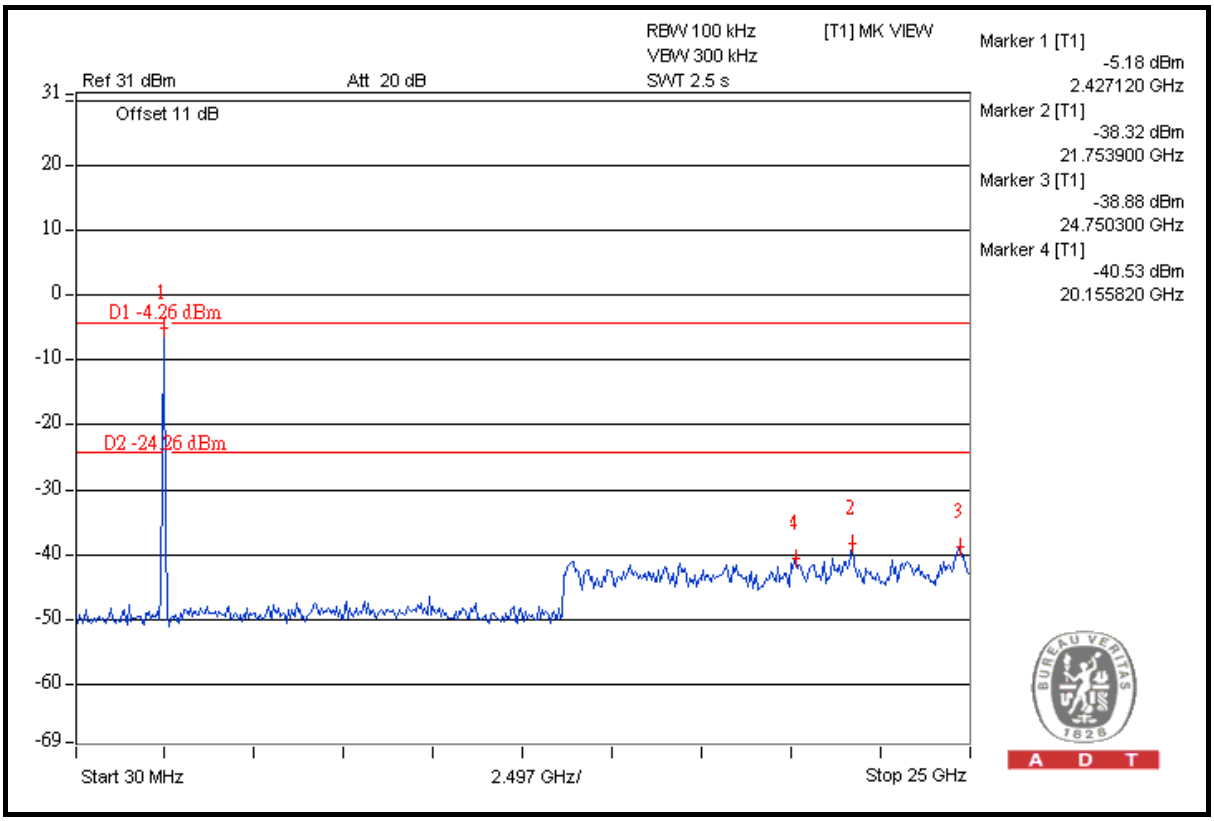

RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -4.32 dBm
D2 -24.32 dBm
Center 2.346 GHz
20 MHz/
Span 200 MHz
Marker 1 [T1]
-4.32 dBm
2.424400 GHz
Marker 2 [T1]
-41.68 dBm
2.400000 GHz
Marker 3 [T1]
-34.45 dBm
2.398800 GHz
Marker 4 [T1]
-48.49 dBm
2.390000 GHz
Marker 5 [T1]
-45.62 dBm
2.389600 GHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -3.76 dBm
D2 -23.76 dBm
Center 2.346 GHz
20 MHz/
Span 200 MHz
Marker 1 [T1]
-3.76 dBm
2.431600 GHz
Marker 2 [T1]
-36.92 dBm
2.400000 GHz
Marker 3 [T1]
-34.77 dBm
2.398400 GHz
Marker 4 [T1]
-51.36 dBm
2.390000 GHz
Marker 5 [T1]
-51.26 dBm
2.389600 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -4.32 dBm
D2 -24.32 dBm
Marker 1 [T1]
-4.96 dBm
2.377180 GHz
Marker 2 [T1]
-38.89 dBm
24.650420 GHz
Marker 3 [T1]
-38.99 dBm
21.753900 GHz
Marker 4 [T1]
-39.47 dBm
24.750300 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -4.26 dBm
D2 -24.26 dBm
Marker 1 [T1]
-4.26 dBm
2.461600 GHz
Marker 2 [T1]
-47.32 dBm
2.483500 GHz
Marker 3 [T1]
-46.14 dBm
2.486800 GHz
Marker 4 [T1]
-48.61 dBm
2.500000 GHz
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -3.54 dBm
D2 -23.54 dBm
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz
Marker 1 [T1]
-3.54 dBm
2.461200 GHz
Marker 2 [T1]
-49.67 dBm
2.483500 GHz
Marker 3 [T1]
-49.67 dBm
2.483500 GHz
Marker 4 [T1]
-53.87 dBm
2.500000 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -4.26 dBm
D2 -24.26 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
-5.18 dBm
2.427120 GHz
Marker 2 [T1]
-38.32 dBm
21.753900 GHz
Marker 3 [T1]
-38.88 dBm
24.750300 GHz
Marker 4 [T1]
-40.53 dBm
20.155820 GHz

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. INFORMATION ON THE TESTING LABORATORIES

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

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5.phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/TPCI Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

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

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

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

---END---