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FCC TEST REPORT (15.247)

REPORT NO.: RF110506D13

MODEL NO.: AV-3072D

FCC ID: XKIPPDW3011-4

RECEIVED: May 10, 2011

TESTED: May 17 ~ 25, 2011

ISSUED: May 27, 2011

APPLICANT: AVerMedia INFORMATION, Inc

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF110506D13	Original release	May 27, 2011



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1. CERTIFICATION

PRODUCT: 300N Wireless LAN module with USB interface
(IEEE 802.11 b/g/n 2T2R)

BRAND NAME: AVerMedia

MODEL NO.: AV-3072D

APPLICANT: AVerMedia INFORMATION, Inc

TEST ITEM: ENGINEERING SAMPLE

TESTED: May 17 ~ 25, 2011

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.4-2003

ANSI C63.10-2009

The above equipment 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 : Celia Chen , **DATE:** May 27, 2011
(Celia Chen / Senior Specialist)

APPROVED BY : Ken Liu , **DATE:** May 27, 2011
(Ken Liu / Manager)



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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 -15.15dB at 0.173MHz
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 -0.4dB at 2483.50MHz
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	Antenna connector is IPEX.

2.1 MEASUREMENT UNCERTAINTY

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

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.41 dB
Radiated emissions	30MHz ~ 1GHz	3.87 dB
	Above 1GHz	2.89 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	300N Wireless LAN module with USB interface (IEEE 802.11 b/g/n 2T2R)
MODEL NO.	AV-3072D
FCC ID	XKIPPDW3011-4
NOMINAL VOLTAGE	5Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps
OPERATING FREQUENCY	2412.0 ~ 2462.0MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
OUTPUT POWER	378.1mW
ANTENNA TYPE	Refer to note below
ANTENNA CONNECTER	Refer to note below
DATA CABLE	NA
I/O PORTS	Refer to User's manual
ACCESSORY DEVICES	NA



NOTE:

1. The EUT is a 300N Wireless LAN module with USB interface (IEEE 802.11 b/g/n 2T2R).

2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	2TX
802.11n (40MHz)	2TX

3. The following antennas were applied to the EUT:

	Antenna	Type	Connector	Gain (dBi)
External	A	Dipole	IPEX	5
	B	Dipole	IPEX	3
Internal	C	PCB	IPEX	4.5

During the test, the maximum gain of external **antenna A** and internal **antenna C** (NOTE*) were selected as representative antennas and therefore only their test data were recorded in this report.

NOTE*:The antenna C was pre-tested XYZ Axis and the worst emission level was found on X Axis, therefore only its test data was recorded in this report.

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):

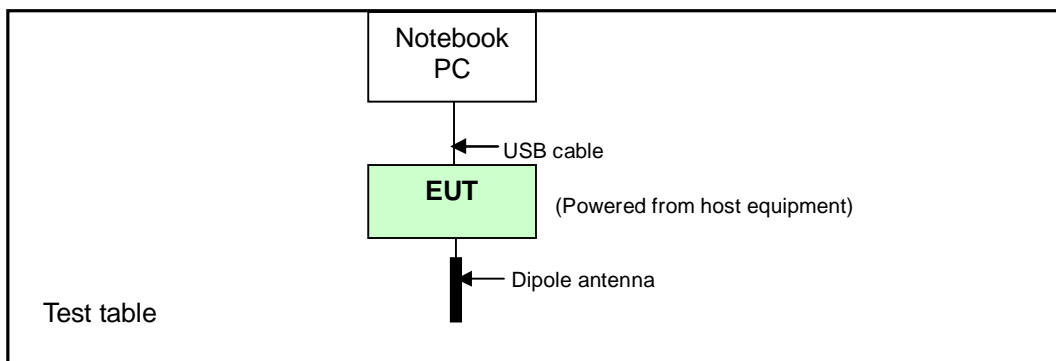
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

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

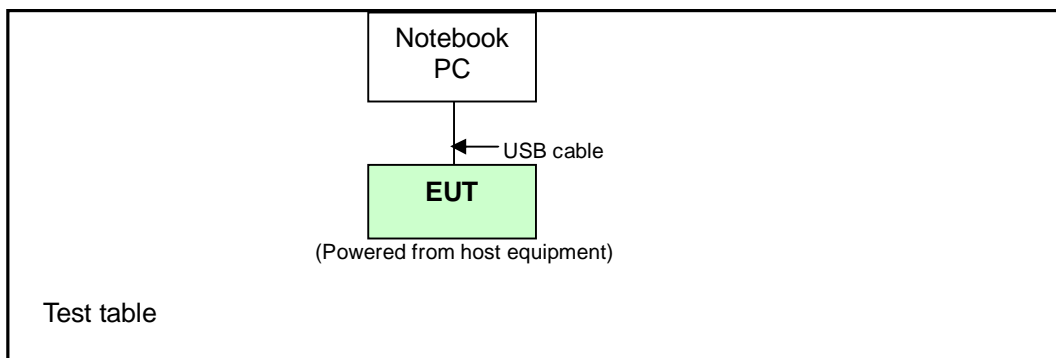
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

FOR MODE A:



FOR MODE B:





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE ³ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with External antenna A
B	√	√	√	-	EUT with Internal antenna C

Where **RE³1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

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, XYZ Axis 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)	AXIS
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	13.0	-
A	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	27.0	-
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
B	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	13.0	X
B	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	27.0	X

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, XYZ Axis 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)	AXIS
A	802.11g	1 to 11	11	OFDM	BPSK	6.0	-
B	802.11g	1 to 11	11	OFDM	BPSK	6.0	X

**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	11	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 & B	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
A & B	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A & B	802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	13.0
A & B	802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	27.0

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	13.0
A	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	27.0



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TEST CONDITION:

APPLICABLE TO	EUT CONFIGURE MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE ³ 1G	A & B	23deg. C, 84% RH, 1009hPa	120Vac, 60Hz	Chad Lee
RE <1G	A & B	23deg. C, 84% RH, 1009hPa	120Vac, 60Hz	Chad Lee
PLC	A & B	25deg. C, 85% RH, 1008hPa	120Vac, 60Hz	Chad Lee
APCM	A	24deg. C, 78% RH, 1009hPa	120Vac, 60Hz	Chad Lee



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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 COMPUTER	DELL	PP05L	20375526736	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

- NOTE:**
1. All power cords of the above support units are non shielded (1.8m).
 2. One shielded USB cable (0.1m) was connected from EUT to support unit 1, which was provided by client.



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.



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4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01924	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01292	Mar. 04, 2011	Mar. 03, 2012
ROHDE & SCHWARZ TEST RECEIVER	ESU26	100005	Jun. 10, 2010	Jun. 09, 2011
Schwarzbeck Antenna	VULB 9168	137	Apr. 12, 2011	Apr. 11, 2012
Schwarzbeck Antenna	VHBA 9123	480	May 06, 2011	May 05, 2012
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V 7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 20, 2010	Aug. 19, 2011
EMCO Horn Antenna	3115	6714	Oct. 26, 2010	Oct. 25, 2011
EMCO Horn Antenna	3115	9312-4192	Apr. 22, 2011	Apr. 21, 2012
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA

- NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Chamber No. 6.
4. The Industry Canada Reference No. IC 7450E-6.
5. The FCC Site Registration No. is 447212.



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.

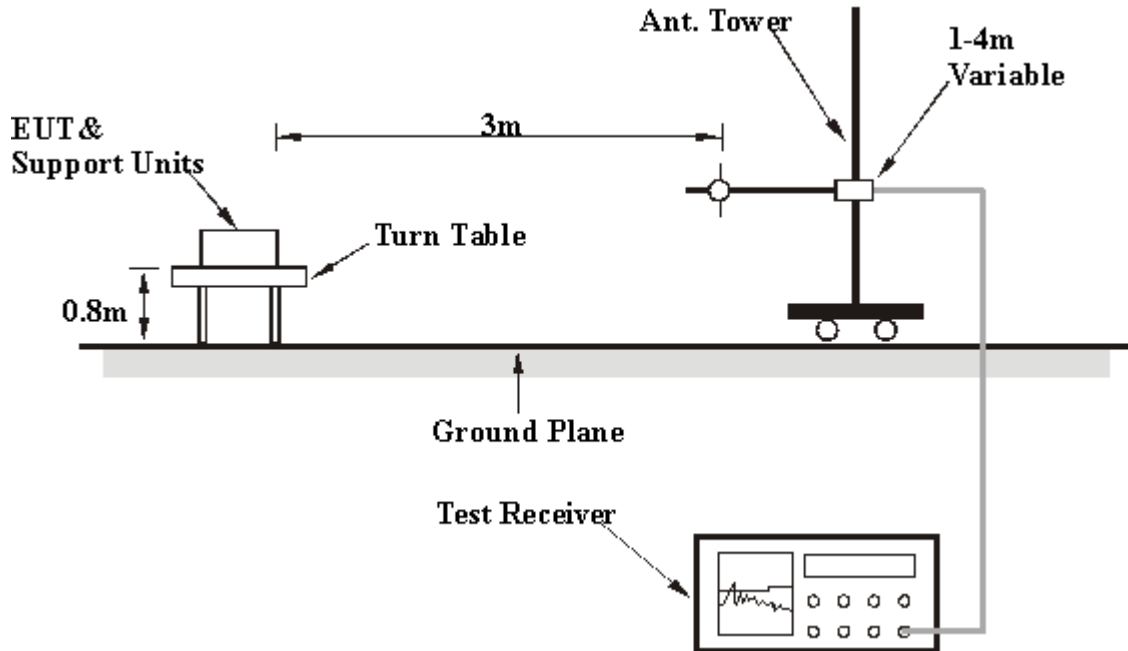
NOTE:

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 100kHz and video bandwidth is 300kHz 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

- Turn on the power of all equipment.
- Notebook PC ran a test program (provided by manufacture) to enable EUT under transmitting condition at specific channel continuously.



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4.1.7 TEST RESULTS

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	53.5 PK	74.0	-20.5	1.00 H	239	21.06	32.47
2	2390.00	41.3 AV	54.0	-12.7	1.00 H	239	8.87	32.47
3	*2412.00	98.7 PK			1.00 H	239	66.10	32.55
4	*2412.00	95.6 AV			1.00 H	239	63.05	32.55
5	#3216.00	41.2 PK	78.7	-37.4	1.00 H	104	5.53	35.69
6	#3216.00	32.7 AV	75.6	-42.9	1.00 H	104	-2.97	35.69
7	4824.00	51.3 PK	74.0	-22.7	1.01 H	236	11.34	39.92
8	4824.00	42.7 AV	54.0	-11.3	1.01 H	236	2.80	39.92
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	53.8 PK	74.0	-20.2	1.00 V	19	21.34	32.47
2	2390.00	43.4 AV	54.0	-10.6	1.00 V	19	10.93	32.47
3	*2412.00	101.2 PK			1.00 V	19	68.64	32.55
4	*2412.00	98.7 AV			1.00 V	19	66.17	32.55
5	#3216.00	46.4 PK	81.2	-34.8	1.03 V	14	10.67	35.69
6	#3216.00	41.3 AV	78.7	-37.4	1.03 V	14	5.61	35.69
7	4824.00	61.0 PK	74.0	-13.0	1.00 V	102	21.09	39.92
8	4824.00	50.7 AV	54.0	-3.3	1.00 V	102	10.79	39.92

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	99.3 PK			1.00 H	233	66.68	32.64
2	*2437.00	95.4 AV			1.00 H	233	62.77	32.64
3	#3249.00	40.8 PK	79.3	-38.5	1.00 H	78	5.06	35.76
4	#3249.00	33.5 AV	75.4	-41.9	1.00 H	78	-2.24	35.76
5	4874.00	50.7 PK	74.0	-23.4	1.00 H	32	10.57	40.08
6	4874.00	42.2 AV	54.0	-11.8	1.00 H	32	2.15	40.08
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	103.8 PK			1.00 V	194	71.11	32.64
2	*2437.00	99.9 AV			1.00 V	194	67.22	32.64
3	#3249.00	45.0 PK	83.8	-38.7	1.00 V	334	9.27	35.76
4	#3249.00	41.0 AV	79.9	-38.9	1.00 V	334	5.19	35.76
5	4874.00	56.0 PK	74.0	-18.0	1.00 V	203	15.94	40.08
6	4874.00	51.6 AV	54.0	-2.4	1.00 V	203	11.50	40.08

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2462.00	97.9 PK			1.00 H	211	65.12	32.73
2	*2462.00	94.7 AV			1.00 H	211	61.96	32.73
3	2483.50	52.2 PK	74.0	-21.8	1.00 H	211	19.43	32.81
4	2483.50	41.5 AV	54.0	-12.5	1.00 H	211	8.71	32.81
5	#3282.00	46.2 PK	77.9	-31.6	1.00 H	125	10.39	35.83
6	#3282.00	38.3 AV	74.7	-36.4	1.00 H	125	2.50	35.83
7	4924.00	50.6 PK	74.0	-23.4	1.00 H	158	10.37	40.24
8	4924.00	41.4 AV	54.0	-12.6	1.00 H	158	1.19	40.24
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	104.2 PK			1.00 V	194	71.43	32.73
2	*2462.00	100.3 AV			1.00 V	194	67.57	32.73
3	2483.50	52.5 PK	74.0	-21.5	1.00 V	194	19.71	32.81
4	2483.50	41.9 AV	54.0	-12.1	1.00 V	194	9.13	32.81
5	#3282.00	50.1 PK	84.2	-34.1	1.00 V	337	14.28	35.83
6	#3282.00	47.0 AV	80.3	-33.3	1.00 V	337	11.16	35.83
7	4924.00	55.9 PK	74.0	-18.1	1.00 V	198	15.63	40.24
8	4924.00	51.5 AV	54.0	-2.5	1.00 V	198	11.27	40.24

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	52.9 PK	74.0	-21.1	1.00 H	12	19.52	33.39
2	2390.00	42.5 AV	54.0	-11.5	1.00 H	12	9.13	33.39
3	*2412.00	100.7 PK			1.00 H	12	67.21	33.48
4	*2412.00	97.5 AV			1.00 H	12	64.03	33.48
5	#3216.00	48.5 PK	80.7	-32.2	1.00 H	97	11.73	36.80
6	#3216.00	44.7 AV	77.5	-32.8	1.00 H	97	7.92	36.80
7	4824.00	53.7 PK	74.0	-20.3	1.00 H	18	11.91	41.77
8	4824.00	43.2 AV	54.0	-10.8	1.00 H	18	1.43	41.77
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	51.5 PK	74.0	-22.5	1.03 V	86	18.13	33.39
2	2390.00	41.8 AV	54.0	-12.3	1.03 V	86	8.36	33.39
3	*2412.00	97.9 PK			1.03 V	86	64.46	33.48
4	*2412.00	94.7 AV			1.03 V	86	61.22	33.48
5	#3216.00	45.5 PK	77.9	-32.5	1.00 V	6	8.69	36.80
6	#3216.00	37.6 AV	74.7	-37.1	1.00 V	6	0.76	36.80
7	4824.00	58.0 PK	74.0	-16.0	1.00 V	93	16.26	41.77
8	4824.00	51.9 AV	54.0	-2.1	1.00 V	93	10.14	41.77

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	102.9 PK			1.18 H	9	69.37	33.53
2	*2437.00	99.5 AV			1.18 H	9	65.98	33.53
3	#3249.00	48.3 PK	82.9	-34.6	1.00 H	98	11.54	36.80
4	#3249.00	44.1 AV	79.5	-35.4	1.00 H	98	7.32	36.80
5	4874.00	53.4 PK	74.0	-20.6	1.00 H	345	11.78	41.66
6	4874.00	44.5 AV	54.0	-9.5	1.00 H	345	2.83	41.66
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	98.8 PK			1.02 V	87	65.27	33.53
2	*2437.00	95.6 AV			1.02 V	87	62.03	33.53
3	#3249.00	47.1 PK	78.8	-31.7	1.00 V	80	10.29	36.80
4	#3249.00	41.0 AV	75.6	-34.5	1.00 V	80	4.23	36.80
5	4874.00	58.0 PK	74.0	-16.1	1.02 V	78	16.29	41.66
6	4874.00	53.3 AV	54.0	-0.7	1.02 V	78	11.65	41.66

- 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.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2462.00	103.3 PK			1.17 H	9	69.71	33.58
2	*2462.00	99.6 AV			1.17 H	9	65.98	33.58
3	2483.50	53.1 PK	74.0	-21.0	1.17 H	9	19.42	33.63
4	2483.50	40.0 AV	54.0	-14.0	1.17 H	9	6.39	33.63
5	#3282.00	49.7 PK	83.3	-33.6	1.00 H	330	12.94	36.80
6	#3282.00	45.8 AV	79.6	-33.8	1.00 H	330	9.00	36.80
7	4924.00	54.0 PK	74.0	-20.0	1.00 H	69	12.25	41.77
8	4924.00	43.6 AV	54.0	-10.4	1.00 H	69	1.87	41.77
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	96.6 PK			1.00 V	88	63.02	33.58
2	*2462.00	93.2 AV			1.00 V	88	59.59	33.58
3	2483.50	50.0 PK	74.0	-24.0	1.00 V	88	16.36	33.63
4	2483.50	38.6 AV	54.0	-15.4	1.00 V	88	4.99	33.63
5	#3282.00	46.7 PK	76.6	-29.9	1.00 V	271	9.87	36.80
6	#3282.00	42.2 AV	73.2	-31.0	1.00 V	271	5.35	36.80
7	4924.00	58.2 PK	74.0	-15.8	1.00 V	76	16.42	41.77
8	4924.00	53.3 AV	54.0	-0.7	1.00 V	76	11.56	41.77

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	56.3 PK	74.0	-17.7	1.00 H	238	23.82	32.47
2	2390.00	42.0 AV	54.0	-12.0	1.00 H	238	9.57	32.47
3	*2412.00	99.9 PK			1.00 H	238	67.30	32.55
4	*2412.00	85.5 AV			1.00 H	238	52.93	32.55
5	#3216.00	44.0 PK	79.9	-35.9	1.00 H	212	8.31	35.69
6	#3216.00	30.5 AV	65.5	-35.0	1.00 H	212	-5.20	35.69
7	4824.00	48.0 PK	74.0	-26.0	1.00 H	10	8.07	39.92
8	4824.00	36.1 AV	54.0	-17.9	1.00 H	10	-3.78	39.92
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	68.1 PK	74.0	-5.9	1.00 V	16	35.60	32.47
2	2390.00	48.5 AV	54.0	-5.5	1.00 V	16	16.02	32.47
3	*2412.00	107.2 PK			1.00 V	16	74.63	32.55
4	*2412.00	86.9 AV			1.00 V	16	54.35	32.55
5	#3216.00	45.6 PK	87.2	-41.6	1.00 V	14	9.87	35.69
6	#3216.00	41.4 AV	66.9	-25.5	1.00 V	14	5.70	35.69
7	4824.00	52.2 PK	74.0	-21.8	1.00 V	192	12.32	39.92
8	4824.00	39.0 AV	54.0	-15.1	1.00 V	192	-0.97	39.92

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	101.7 PK			1.00 H	239	69.04	32.64
2	*2437.00	84.3 AV			1.00 H	239	51.63	32.64
3	#3249.00	43.5 PK	81.7	-38.2	1.00 H	16	7.76	35.76
4	#3249.00	35.3 AV	64.3	-28.9	1.00 H	16	-0.43	35.76
5	4874.00	47.8 PK	74.0	-26.3	1.00 H	6	7.67	40.08
6	4874.00	37.3 AV	54.0	-16.7	1.00 H	6	-2.79	40.08
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	107.4 PK			1.03 V	27	74.79	32.64
2	*2437.00	89.9 AV			1.03 V	27	57.25	32.64
3	#3249.00	45.7 PK	87.4	-41.7	1.00 V	327	9.97	35.76
4	#3249.00	42.9 AV	69.9	-27.0	1.00 V	327	7.15	35.76
5	4874.00	52.6 PK	74.0	-21.4	1.00 V	201	12.49	40.08
6	4874.00	41.3 AV	54.0	-12.8	1.00 V	201	1.17	40.08

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2462.00	99.6 PK			1.00 H	236	66.90	32.73
2	*2462.00	84.0 AV			1.00 H	236	51.22	32.73
3	2483.50	55.8 PK	74.0	-18.2	1.00 H	236	22.96	32.81
4	2483.50	43.8 AV	54.0	-10.2	1.00 H	236	10.96	32.81
5	#3282.00	45.3 PK	79.6	-34.3	1.00 H	263	9.47	35.83
6	#3282.00	39.5 AV	64.0	-24.5	1.00 H	263	3.66	35.83
7	4924.00	46.9 PK	74.0	-27.1	1.00 H	248	6.64	40.24
8	4924.00	36.4 AV	54.0	-17.6	1.00 H	248	-3.87	40.24
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	105.4 PK			1.01 V	26	72.66	32.73
2	*2462.00	88.7 AV			1.01 V	26	55.93	32.73
3	2483.50	66.8 PK	74.0	-7.2	1.01 V	28	33.98	32.81
4	2483.50	48.0 AV	54.0	-6.0	1.01 V	28	15.15	32.81
5	#3282.00	48.0 PK	85.4	-37.4	1.00 V	144	12.18	35.83
6	#3282.00	45.3 AV	68.7	-23.4	1.00 V	144	9.48	35.83
7	4924.00	54.8 PK	74.0	-19.2	1.00 V	205	14.55	40.24
8	4924.00	39.2 AV	54.0	-14.8	1.00 V	205	-1.08	40.24

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	65.2 PK	74.0	-8.8	1.00 H	4	31.84	33.39
2	2390.00	48.6 AV	54.0	-5.4	1.00 H	4	15.25	33.39
3	*2412.00	106.6 PK			1.00 H	4	73.08	33.48
4	*2412.00	89.8 AV			1.00 H	4	56.34	33.48
5	#3216.00	49.4 PK	86.6	-37.1	1.00 H	98	12.62	36.80
6	#3216.00	44.8 AV	69.8	-25.1	1.00 H	98	7.97	36.80
7	4824.00	53.5 PK	74.0	-20.5	1.00 H	275	11.76	41.77
8	4824.00	40.2 AV	54.0	-13.9	1.00 H	275	-1.62	41.77
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	53.5 PK	74.0	-20.5	1.04 V	87	20.13	33.39
2	2390.00	45.8 AV	54.0	-8.3	1.04 V	87	12.36	33.39
3	*2412.00	98.0 PK			1.04 V	87	64.54	33.48
4	*2412.00	81.9 AV			1.04 V	87	48.44	33.48
5	#3216.00	48.5 PK	78.0	-29.5	1.00 V	86	11.71	36.80
6	#3216.00	43.8 AV	61.9	-18.1	1.00 V	86	7.01	36.80
7	4824.00	53.6 PK	74.0	-20.4	1.00 V	13	11.86	41.77
8	4824.00	40.0 AV	54.0	-14.0	1.00 V	13	-1.77	41.77

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	106.1 PK			1.22 H	3	72.61	33.53
2	*2437.00	90.0 AV			1.22 H	3	56.46	33.53
3	#3249.00	48.0 PK	86.1	-38.2	1.22 H	333	11.16	36.80
4	#3249.00	43.4 AV	70.0	-26.6	1.22 H	333	6.59	36.80
5	4874.00	54.0 PK	74.0	-20.0	1.00 H	16	12.33	41.66
6	4874.00	40.8 AV	54.0	-13.2	1.00 H	16	-0.83	41.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.5 PK			1.00 V	278	66.93	33.53
2	*2437.00	82.3 AV			1.00 V	278	48.79	33.53
3	#3249.00	46.9 PK	80.5	-33.6	1.00 V	262	10.08	36.80
4	#3249.00	40.5 AV	62.3	-21.8	1.00 V	262	3.73	36.80
5	4874.00	53.5 PK	74.0	-20.5	1.00 V	16	11.81	41.66
6	4874.00	40.0 AV	54.0	-14.0	1.00 V	16	-1.68	41.66

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2462.00	104.7 PK			1.18 H	340	71.14	33.58
2	*2462.00	87.3 AV			1.18 H	340	53.74	33.58
3	2483.50	65.0 PK	74.0	-9.0	1.18 H	340	31.41	33.63
4	2483.50	47.5 AV	54.0	-6.5	1.18 H	340	13.87	33.63
5	#3282.00	49.0 PK	84.7	-35.7	1.18 H	336	12.23	36.80
6	#3282.00	45.0 AV	67.3	-22.4	1.18 H	336	8.16	36.80
7	4824.00	53.7 PK	74.0	-20.3	1.00 H	336	11.92	41.77
8	4824.00	39.9 AV	54.0	-14.1	1.00 H	336	-1.83	41.77
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	99.5 PK			1.00 V	89	65.96	33.58
2	*2462.00	80.9 AV			1.00 V	89	47.27	33.58
3	2483.50	53.7 PK	74.0	-20.3	1.00 V	89	20.03	33.63
4	2483.50	38.7 AV	54.0	-15.3	1.00 V	89	5.11	33.63
5	#3282.00	46.0 PK	79.5	-33.6	1.00 V	263	9.19	36.80
6	#3282.00	41.0 AV	60.9	-19.8	1.00 V	263	4.23	36.80
7	4924.00	52.1 PK	74.0	-21.9	1.00 V	16	10.36	41.77
8	4924.00	40.3 AV	54.0	-13.7	1.00 V	16	-1.44	41.77

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	60.6 PK	74.0	-13.4	1.00 H	236	28.15	32.47
2	2390.00	44.8 AV	54.0	-9.2	1.00 H	236	12.36	32.47
3	*2412.00	103.3 PK			1.00 H	236	70.71	32.55
4	*2412.00	80.7 AV			1.00 H	236	48.12	32.55
5	#3216.00	43.4 PK	83.3	-39.9	1.00 H	13	7.66	35.69
6	#3216.00	31.1 AV	60.7	-29.6	1.00 H	13	-4.61	35.69
7	4824.00	47.7 PK	74.0	-26.3	1.00 H	138	7.78	39.92
8	4824.00	35.6 AV	54.0	-18.5	1.00 H	138	-4.37	39.92
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.7 PK	74.0	-10.3	1.00 V	3	31.22	32.47
2	2390.00	46.5 AV	54.0	-7.5	1.00 V	3	14.01	32.47
3	*2412.00	107.1 PK			1.00 V	3	74.55	32.55
4	*2412.00	81.3 AV			1.00 V	3	48.74	32.55
5	#3216.00	43.0 PK	87.1	-44.1	1.00 V	1	7.32	35.69
6	#3216.00	39.0 AV	61.3	-22.3	1.00 V	1	3.26	35.69
7	4824.00	50.6 PK	74.0	-23.4	1.00 V	152	10.64	39.92
8	4824.00	39.1 AV	54.0	-14.9	1.00 V	152	-0.85	39.92

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	100.4 PK			1.00 H	236	67.78	32.64
2	*2437.00	79.5 AV			1.00 H	236	46.86	32.64
3	#3249.00	43.0 PK	80.4	-37.5	1.00 H	265	7.20	35.76
4	#3249.00	34.7 AV	59.5	-24.8	1.00 H	265	-1.04	35.76
5	4874.00	48.7 PK	74.0	-25.3	1.00 H	87	8.66	40.08
6	4874.00	36.1 AV	54.0	-17.9	1.00 H	87	-3.96	40.08
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	108.4 PK			1.00 V	6	75.77	32.64
2	*2437.00	81.4 AV			1.00 V	6	48.77	32.64
3	#3249.00	45.9 PK	88.4	-42.5	1.00 V	18	10.15	35.76
4	#3249.00	37.0 AV	61.4	-24.4	1.00 V	18	1.27	35.76
5	4874.00	52.2 PK	74.0	-21.8	1.00 V	198	12.15	40.08
6	4874.00	38.8 AV	54.0	-15.2	1.00 V	198	-1.29	40.08

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2462.00	101.1 PK			1.00 H	223	68.32	32.73
2	*2462.00	79.7 AV			1.00 H	223	46.99	32.73
3	2483.50	59.6 PK	74.0	-14.4	1.00 H	223	26.79	32.81
4	2483.50	45.9 AV	54.0	-8.1	1.00 H	223	13.13	32.81
5	#3282.00	44.8 PK	81.1	-36.2	1.00 H	265	8.99	35.83
6	#3282.00	38.2 AV	59.7	-21.5	1.00 H	265	2.40	35.83
7	4924.00	49.0 PK	74.0	-25.1	1.00 H	87	8.71	40.24
8	4924.00	36.8 AV	54.0	-17.2	1.00 H	87	-3.44	40.24
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	108.7 PK			1.00 V	16	75.92	32.73
2	*2462.00	84.5 AV			1.00 V	16	51.74	32.73
3	2483.50	71.1 PK	74.0	-3.0	1.00 V	16	38.24	32.81
4	2483.50	49.7 AV	54.0	-4.3	1.00 V	16	16.91	32.81
5	#3282.00	48.2 PK	88.7	-40.4	1.00 V	338	12.41	35.83
6	#3282.00	43.7 AV	64.5	-20.7	1.00 V	338	7.91	35.83
7	4924.00	52.9 PK	74.0	-21.1	1.00 V	25	12.70	40.24
8	4924.00	39.8 AV	54.0	-14.3	1.00 V	25	-0.49	40.24

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	62.2 PK	74.0	-11.8	1.00 H	354	28.83	33.39
2	2390.00	45.0 AV	54.0	-9.0	1.00 H	354	11.60	33.39
3	*2412.00	106.3 PK			1.00 H	354	72.77	33.48
4	*2412.00	82.6 AV			1.00 H	354	49.08	33.48
5	#3216.00	48.8 PK	86.3	-37.5	1.00 H	97	11.98	36.80
6	#3216.00	42.6 AV	62.6	-20.0	1.00 H	97	5.76	36.80
7	4824.00	53.8 PK	74.0	-20.2	1.00 H	97	12.03	41.77
8	4824.00	40.0 AV	54.0	-14.0	1.00 H	97	-1.77	41.77
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	58.2 PK	74.0	-15.8	1.00 V	90	24.84	33.39
2	2390.00	47.0 AV	54.0	-7.0	1.00 V	90	13.59	33.39
3	*2412.00	102.7 PK			1.00 V	90	69.24	33.48
4	*2412.00	81.2 AV			1.00 V	90	47.69	33.48
5	#3216.00	47.9 PK	82.7	-34.8	1.00 V	263	11.12	36.80
6	#3216.00	42.5 AV	61.2	-18.6	1.00 V	263	5.73	36.80
7	4824.00	55.2 PK	74.0	-18.8	1.00 V	288	13.46	41.77
8	4824.00	41.3 AV	54.0	-12.7	1.00 V	288	-0.51	41.77

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	107.2 PK			1.22 H	7	73.68	33.53
2	*2437.00	83.1 AV			1.22 H	7	49.54	33.53
3	#3249.00	49.9 PK	87.2	-37.3	1.01 H	333	13.12	36.80
4	#3249.00	43.3 AV	63.1	-19.8	1.01 H	333	6.47	36.80
5	4874.00	54.8 PK	74.0	-19.2	1.00 H	16	13.12	41.66
6	4874.00	40.0 AV	54.0	-14.0	1.00 H	16	-1.68	41.66
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	98.9 PK			1.00 V	279	65.32	33.53
2	*2437.00	79.3 AV			1.00 V	279	45.80	33.53
3	#3249.00	46.4 PK	78.9	-32.5	1.00 V	88	9.58	36.80
4	#3249.00	40.4 AV	59.3	-18.9	1.00 V	88	3.64	36.80
5	4874.00	53.9 PK	74.0	-20.1	1.00 V	68	12.26	41.66
6	4874.00	40.0 AV	54.0	-14.0	1.00 V	68	-1.68	41.66

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2462.00	107.6 PK			1.00 H	339	73.99	33.58
2	*2462.00	87.1 AV			1.00 H	339	53.50	33.58
3	2483.50	69.3 PK	74.0	-4.7	1.00 H	339	35.63	33.63
4	2483.50	49.2 AV	54.0	-4.8	1.00 H	339	15.58	33.63
5	#3282.00	47.2 PK	87.6	-40.4	1.00 H	6	10.42	36.80
6	#3282.00	40.9 AV	67.1	-26.2	1.00 H	6	4.13	36.80
7	4924.00	53.8 PK	74.0	-20.2	1.00 H	16	12.06	41.77
8	4924.00	40.3 AV	54.0	-13.7	1.00 H	16	-1.48	41.77
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	99.8 PK			1.00 V	85	66.23	33.58
2	*2462.00	82.5 AV			1.00 V	85	48.94	33.58
3	2483.50	59.0 PK	74.0	-15.0	1.00 V	85	25.36	33.63
4	2483.50	42.9 AV	54.0	-11.1	1.00 V	85	9.23	33.63
5	#3282.00	46.3 PK	79.8	-33.6	1.00 V	98	9.45	36.80
6	#3282.00	39.2 AV	62.5	-23.3	1.00 V	98	2.43	36.80
7	4924.00	58.2 PK	74.0	-15.8	1.00 V	279	16.43	41.77
8	4924.00	40.7 AV	54.0	-13.3	1.00 V	279	-1.04	41.77

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	64.5 PK	74.0	-9.5	1.00 H	226	32.02	32.47
2	2390.00	44.4 AV	54.0	-9.6	1.00 H	226	11.96	32.47
3	*2422.00	98.5 PK			1.00 H	226	65.88	32.59
4	*2422.00	76.2 AV			1.00 H	226	43.58	32.59
5	#3229.00	43.4 PK	78.5	-35.1	1.00 H	67	7.64	35.71
6	#3229.00	34.1 AV	56.2	-22.1	1.00 H	67	-1.65	35.71
7	4884.00	49.4 PK	74.0	-24.6	1.00 H	6	9.24	40.12
8	4884.00	36.7 AV	54.0	-17.3	1.00 H	6	-3.44	40.12
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.2 PK	74.0	-2.8	1.06 V	29	38.70	32.47
2	2390.00	52.6 AV	54.0	-1.4	1.06 V	29	20.13	32.47
3	*2422.00	105.2 PK			1.06 V	29	72.59	32.59
4	*2422.00	80.6 AV			1.06 V	29	48.03	32.59
5	#3229.00	46.1 PK	85.2	-39.1	1.00 V	10	10.42	35.71
6	#3229.00	36.6 AV	60.6	-24.0	1.00 V	10	0.89	35.71
7	4844.00	51.0 PK	74.0	-23.0	1.00 V	16	10.99	39.99
8	4844.00	37.7 AV	54.0	-16.3	1.00 V	16	-2.25	39.99

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	98.2 PK			1.00 H	216	65.57	32.64
2	*2437.00	74.9 AV			1.00 H	216	42.23	32.64
3	#3249.00	43.5 PK	78.2	-34.7	1.00 H	252	7.74	35.76
4	#3249.00	33.9 AV	54.9	-21.0	1.00 H	252	-1.84	35.76
5	4874.00	48.9 PK	74.0	-25.1	1.00 H	18	8.83	40.08
6	4874.00	36.6 AV	54.0	-17.4	1.00 H	18	-3.44	40.08
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	105.6 PK			1.00 V	40	72.96	32.64
2	*2437.00	80.6 AV			1.00 V	40	47.97	32.64
3	#3249.00	45.5 PK	85.6	-40.2	1.00 V	12	9.69	35.76
4	#3249.00	37.6 AV	60.6	-23.0	1.00 V	12	1.87	35.76
5	4874.00	49.5 PK	74.0	-24.5	1.00 V	23	9.41	40.08
6	4874.00	38.9 AV	54.0	-15.1	1.00 V	23	-1.14	40.08

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2452.00	96.7 PK			1.00 H	222	64.03	32.70
2	*2452.00	74.7 AV			1.00 H	222	42.03	32.70
3	2483.50	66.7 PK	74.0	-7.3	1.00 H	222	33.92	32.81
4	2483.50	48.5 AV	54.0	-5.5	1.00 H	222	15.67	32.81
5	#3269.00	43.9 PK	76.7	-32.9	1.00 H	264	8.06	35.80
6	#3269.00	36.4 AV	54.7	-18.3	1.00 H	264	0.61	35.80
7	4904.00	47.1 PK	74.0	-26.9	1.00 H	15	6.95	40.18
8	4904.00	36.4 AV	54.0	-17.6	1.00 H	15	-3.75	40.18
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	103.3 PK			1.00 V	13	70.64	32.70
2	*2452.00	78.5 AV			1.00 V	13	45.79	32.70
3	2483.50	73.5 PK	74.0	-0.5	1.00 V	13	40.69	32.81
4	2483.50	51.6 AV	54.0	-2.4	1.00 V	13	18.76	32.81
5	#3269.00	46.6 PK	83.3	-36.8	1.00 V	16	10.77	35.80
6	#3269.00	38.0 AV	58.5	-20.5	1.00 V	16	2.17	35.80
7	4904.00	49.6 PK	74.0	-24.4	1.00 V	16	9.40	40.18
8	4904.00	38.9 AV	54.0	-15.1	1.00 V	16	-1.25	40.18

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	2390.00	72.9 PK	74.0	-1.1	1.00 H	14	39.53	33.39
2	2390.00	48.0 AV	54.0	-6.0	1.00 H	14	14.58	33.39
3	*2422.00	102.3 PK			1.00 H	14	68.81	33.50
4	*2422.00	74.5 AV			1.00 H	14	40.95	33.50
5	#3229.00	46.8 PK	82.3	-35.5	1.00 H	86	10.03	36.80
6	#3229.00	41.0 AV	54.5	-13.4	1.00 H	86	4.21	36.80
7	4844.00	53.9 PK	74.0	-20.1	1.00 H	125	12.15	41.73
8	4844.00	40.0 AV	54.0	-14.0	1.00 H	125	-1.75	41.73
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	68.8 PK	74.0	-5.2	1.00 V	89	35.42	33.39
2	2390.00	46.0 AV	54.0	-8.0	1.00 V	89	12.57	33.39
3	*2422.00	96.7 PK			1.00 V	89	63.19	33.50
4	*2422.00	70.8 AV			1.00 V	89	37.31	33.50
5	#3229.00	48.1 PK	76.7	-28.6	1.00 V	86	11.27	36.80
6	#3229.00	40.1 AV	50.8	-10.7	1.00 V	86	3.27	36.80
7	4844.00	52.6 PK	74.0	-21.4	1.00 V	332	10.88	41.73
8	4844.00	39.8 AV	54.0	-14.2	1.00 V	332	-1.96	41.73

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2437.00	104.1 PK			1.00 H	5	70.59	33.53
2	*2437.00	73.8 AV			1.00 H	5	40.25	33.53
3	#3249.00	48.1 PK	84.1	-36.0	1.00 H	338	11.32	36.80
4	#3249.00	40.7 AV	53.8	-13.1	1.00 H	338	3.93	36.80
5	4874.00	53.6 PK	74.0	-20.4	1.00 H	6	11.94	41.66
6	4874.00	40.3 AV	54.0	-13.7	1.00 H	6	-1.36	41.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.0 PK			1.00 V	90	63.51	33.53
2	*2437.00	69.9 AV			1.00 V	90	36.38	33.53
3	#3249.00	46.2 PK	77.0	-30.9	1.00 V	81	9.35	36.80
4	#3249.00	39.4 AV	49.9	-10.5	1.00 V	81	2.58	36.80
5	4874.00	54.9 PK	74.0	-19.1	1.00 V	16	13.25	41.66
6	4874.00	40.0 AV	54.0	-14.0	1.00 V	16	-1.68	41.66

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	*2452.00	100.1 PK			1.00 H	16	66.54	33.56
2	*2452.00	74.5 AV			1.00 H	16	40.92	33.56
3	2483.50	73.6 PK	74.0	-0.4	1.00 H	16	39.93	33.63
4	2483.50	46.9 AV	54.0	-7.1	1.00 H	16	13.30	33.63
5	#3269.00	47.1 PK	80.1	-33.0	1.02 H	133	10.33	36.80
6	#3269.00	41.6 AV	54.5	-12.9	1.02 H	133	4.79	36.80
7	4904.00	53.0 PK	74.0	-21.0	1.00 H	11	11.38	41.63
8	4904.00	40.0 AV	54.0	-14.1	1.00 H	11	-1.68	41.63
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	92.9 PK			1.00 V	88	59.33	33.56
2	*2452.00	68.0 AV			1.00 V	88	34.45	33.56
3	2483.50	64.4 PK	74.0	-9.6	1.00 V	88	30.80	33.63
4	2483.50	46.7 AV	54.0	-7.4	1.00 V	88	13.02	33.63
5	#3269.00	45.4 PK	72.9	-27.5	1.00 V	81	8.62	36.80
6	#3269.00	35.6 AV	48.0	-12.4	1.00 V	81	-1.17	36.80
7	4904.00	52.8 PK	74.0	-21.2	1.00 V	16	11.19	41.63
8	4904.00	39.0 AV	54.0	-15.0	1.00 V	16	-2.66	41.63

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

BELOW 1GHz WORST-CASE DATA : 802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	41.30	28.3 QP	40.0	-11.7	1.12 H	10	14.16	14.16
2	115.54	32.2 QP	43.5	-11.3	1.36 H	190	20.39	11.78
3	191.40	37.5 QP	43.5	-6.0	1.86 H	265	25.42	12.07
4	215.61	37.5 QP	43.5	-6.0	1.72 H	70	25.55	11.99
5	236.59	42.7 QP	46.0	-3.3	1.13 H	100	29.81	12.87
6	372.16	32.7 QP	46.0	-13.3	1.35 H	268	15.24	17.46
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	60.67	24.9 QP	40.0	-15.1	1.17 V	208	11.60	13.28
2	89.72	29.0 QP	43.5	-14.5	1.39 V	247	20.44	8.58
3	118.77	29.4 QP	43.5	-14.1	1.58 V	190	17.15	12.25
4	194.63	31.5 QP	43.5	-12.0	1.08 V	214	19.75	11.79
5	239.82	35.4 QP	46.0	-10.6	1.00 V	130	22.43	13.01
6	796.64	30.7 QP	46.0	-15.4	1.13 V	340	4.28	26.37

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 84%RH 1009 hPa	TESTED BY	Chad Lee
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	199.47	35.6 QP	43.5	-7.9	1.19 H	10	24.26	11.38
2	249.50	34.6 QP	46.0	-11.4	1.82 H	10	21.18	13.42
3	265.64	39.6 QP	46.0	-6.4	1.63 H	10	25.53	14.06
4	309.22	34.5 QP	46.0	-11.5	1.15 H	10	18.81	15.71
5	414.13	35.9 QP	46.0	-10.1	1.32 H	10	17.43	18.49
6	520.65	32.1 QP	46.0	-13.9	1.75 H	109	10.85	21.27
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	115.54	32.9 QP	43.5	-10.6	1.12 V	319	21.11	11.78
2	133.29	36.1 QP	43.5	-7.4	1.68 V	235	22.80	13.28
3	173.64	35.1 QP	43.5	-8.4	1.84 V	205	21.20	13.87
4	531.95	32.3 QP	46.0	-13.7	1.35 V	94	10.81	21.53
5	799.87	32.6 QP	46.0	-13.4	1.47 V	34	6.13	26.45
6	866.04	32.5 QP	46.0	-13.5	1.89 V	292	5.27	27.26

- 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 (dB μ V)	
	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.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100276	Dec. 31, 2010	Dec. 30, 2011
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100219	Nov. 24, 2010	Nov. 23, 2011
LISN With Adapter (for EUT)	AD10	C10Ada-001	Nov. 24, 2010	Nov. 23, 2011
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100218	Nov. 24, 2010	Nov. 23, 2011
Software	ADT_Cond_V7.3. 7	NA	NA	NA
Software	ADT_ISN_V7.3.7	NA	NA	NA
RF cable (JYBAO)	5D-FB	Cable-C10.01	Feb. 22, 2011	Feb. 21, 2012
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Feb. 26, 2011	Feb. 25, 2012

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 10.
3. The VCCI Site Registration No. C-1852.



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4.2.3 TEST PROCEDURES

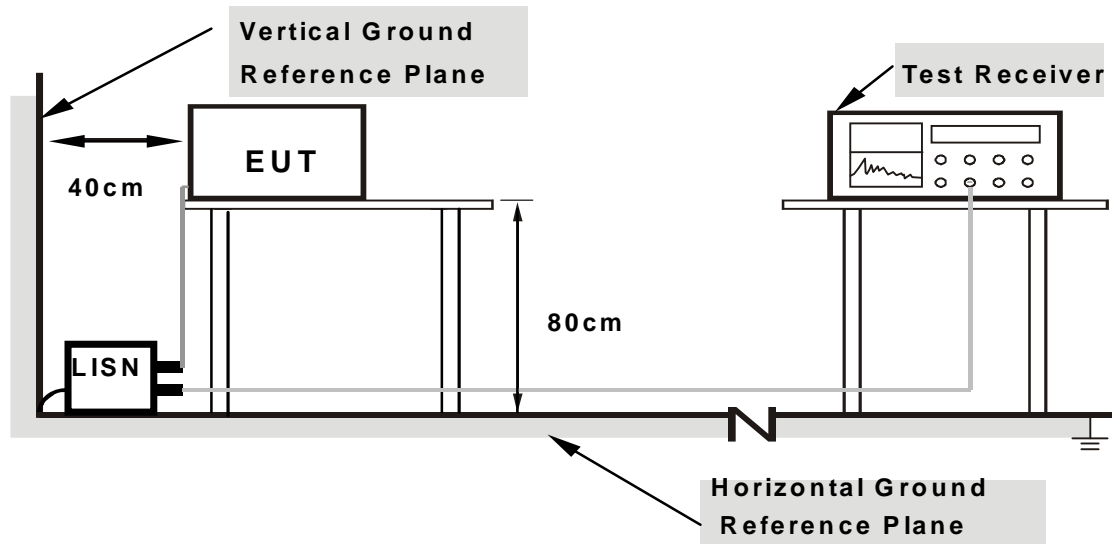
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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 item 4.1.6.

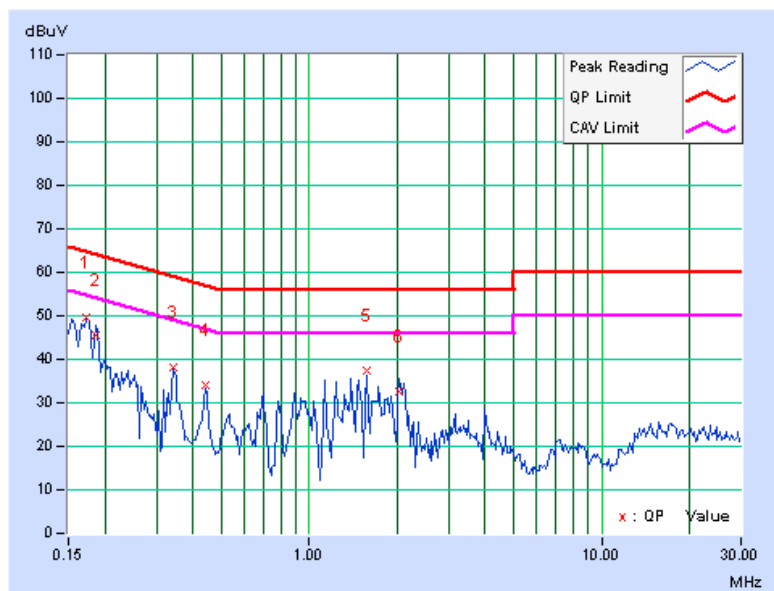
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11g

TEST MODE	A		
PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.17	49.48	-	49.65	-	64.79	54.79	-15.15	-
2	0.186	0.17	45.22	-	45.39	-	64.19	54.19	-18.81	-
3	0.343	0.22	37.96	-	38.18	-	59.12	49.12	-20.94	-
4	0.442	0.24	33.88	-	34.12	-	57.02	47.02	-22.90	-
5	1.582	0.30	36.98	-	37.28	-	56.00	46.00	-18.72	-
6	2.027	0.33	32.38	-	32.71	-	56.00	46.00	-23.29	-

- 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.



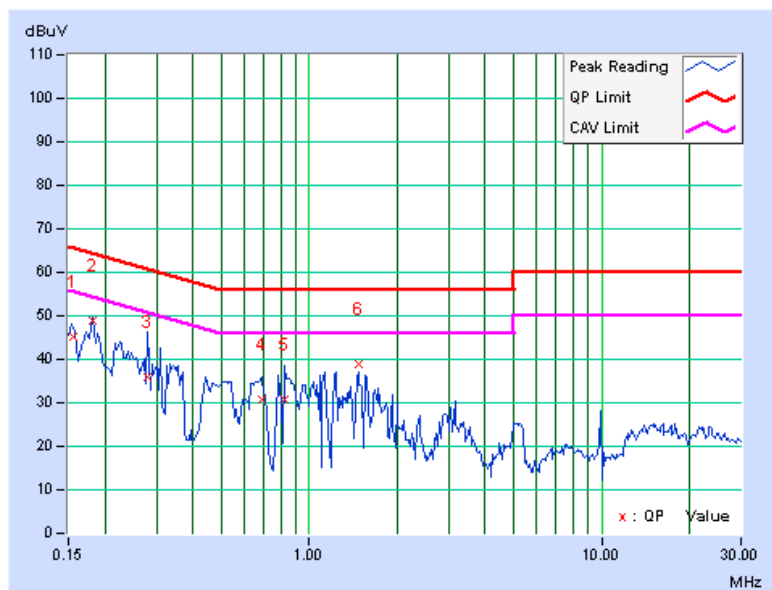


A D T

TEST MODE	A		
PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.156	0.18	45.02	-	45.20	-	65.65	55.65	-20.45	-
2	0.181	0.18	48.58	-	48.76	-	64.43	54.43	-15.67	-
3	0.280	0.21	35.70	-	35.91	-	60.81	50.81	-24.90	-
4	0.687	0.26	30.38	-	30.64	-	56.00	46.00	-25.36	-
5	0.827	0.27	30.58	-	30.85	-	56.00	46.00	-25.15	-
6	1.482	0.30	38.68	-	38.98	-	56.00	46.00	-17.02	-

- 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.



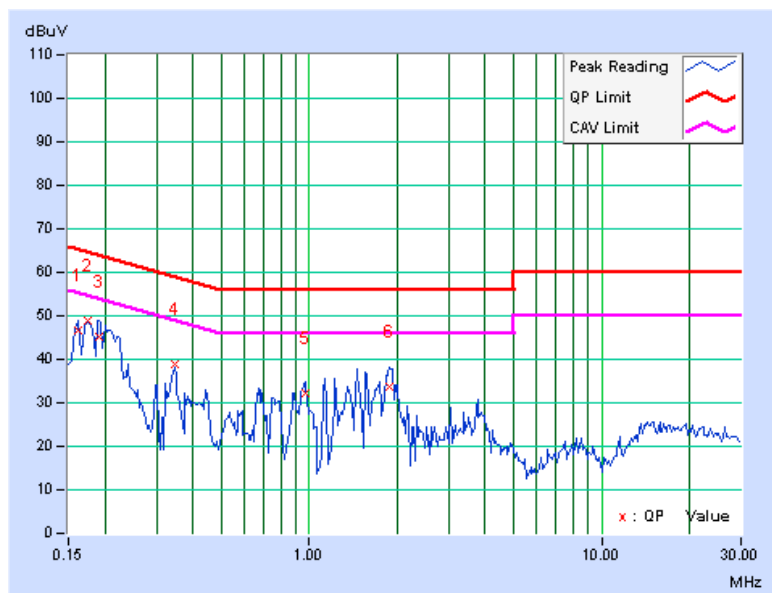


A D T

TEST MODE	B		
PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.17	46.48	-	46.65	-	65.38	55.38	-18.73	-
2	0.175	0.17	48.58	-	48.75	-	64.73	54.73	-15.98	-
3	0.190	0.17	45.02	-	45.19	-	64.02	54.02	-18.83	-
4	0.348	0.22	38.84	-	39.06	-	59.00	49.00	-19.94	-
5	0.969	0.27	31.98	-	32.25	-	56.00	46.00	-23.75	-
6	1.875	0.32	33.44	-	33.76	-	56.00	46.00	-22.24	-

- 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.



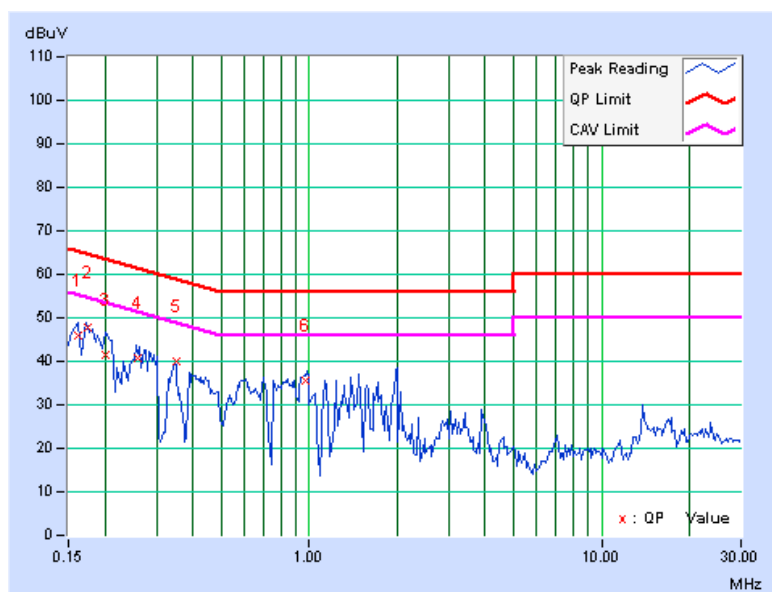


A D T

TEST MODE	B		
PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.18	45.78	-	45.96	-	65.38	55.38	-19.42	-
2	0.174	0.18	47.74	-	47.92	-	64.77	54.77	-16.85	-
3	0.202	0.18	41.48	-	41.66	-	63.53	53.53	-21.86	-
4	0.257	0.20	40.72	-	40.92	-	61.51	51.51	-20.59	-
5	0.349	0.23	39.84	-	40.07	-	58.98	48.98	-18.91	-
6	0.977	0.28	35.46	-	35.74	-	56.00	46.00	-20.26	-

- 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.





A D T

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
R&S SPECTRUM ANALYZER	FSP40	100036	Apr. 29, 2011	Apr. 28, 2012

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

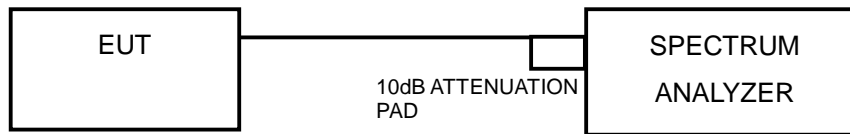
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

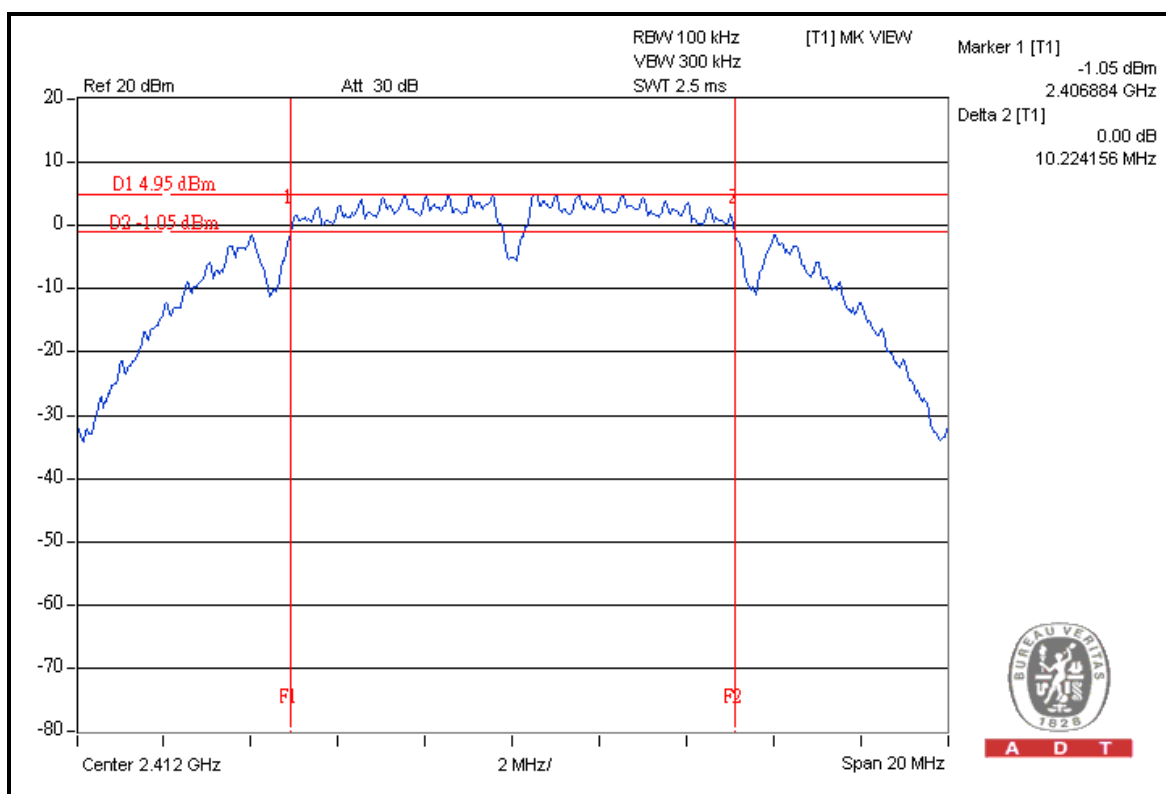
4.3.7 TEST RESULTS

TEST MODE A:

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	10.22	0.5	PASS
6	2437	10.20	0.5	PASS
11	2462	10.18	0.5	PASS

CH 1



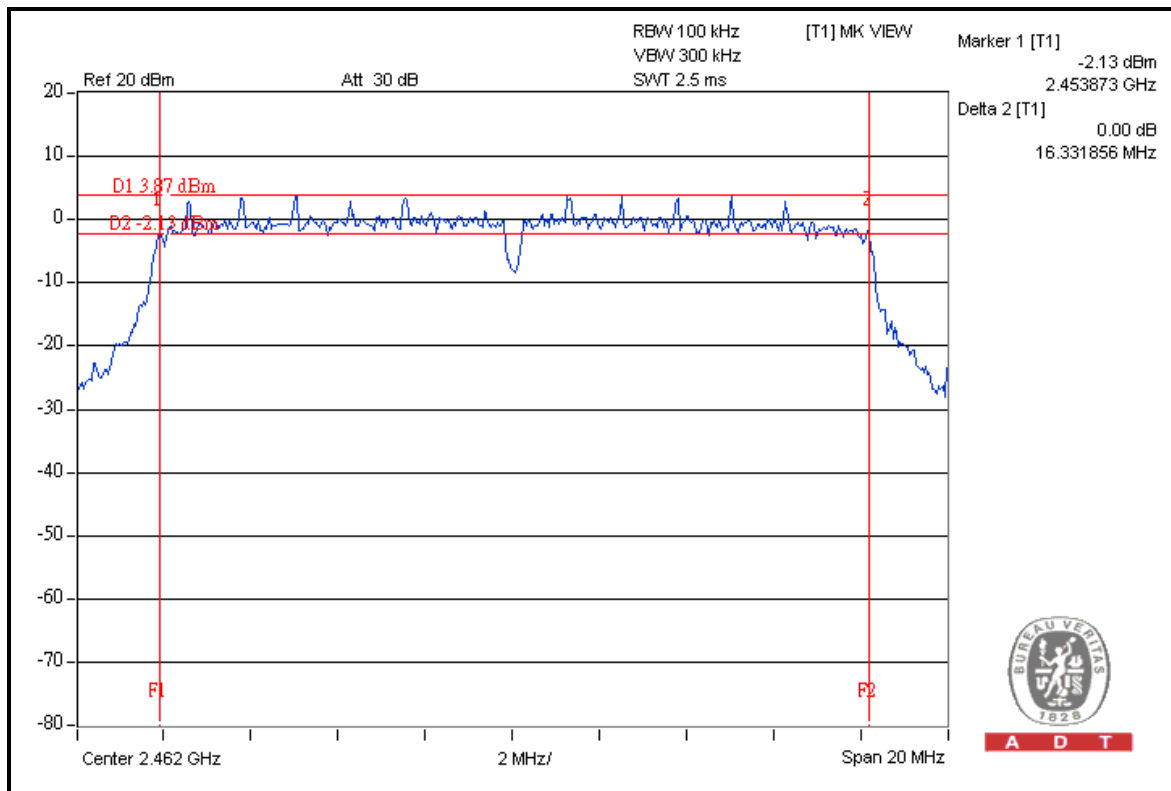


A D T

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.04	0.5	PASS
6	2437	15.81	0.5	PASS
11	2462	16.33	0.5	PASS

CH 11



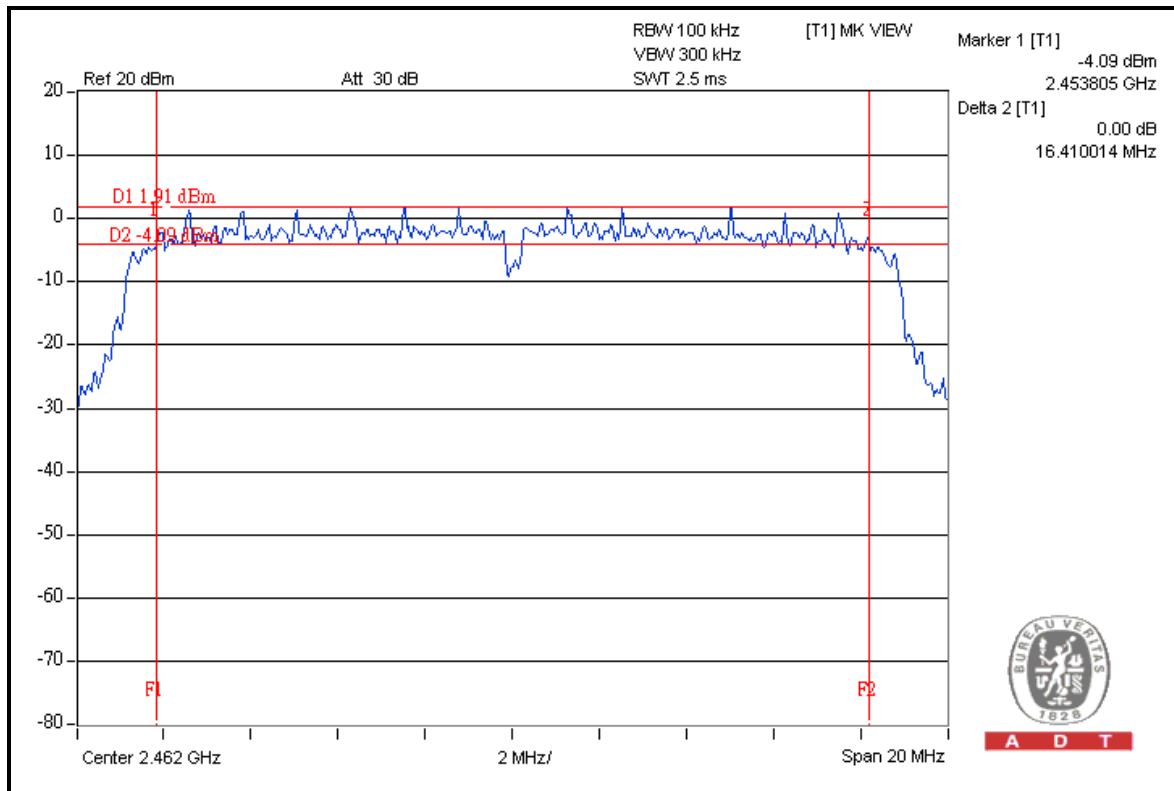


A D T

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.37	16.39	0.5	PASS
6	2437	16.01	16.40	0.5	PASS
11	2462	16.36	16.41	0.5	PASS

FOR CHAIN 1: CH 11



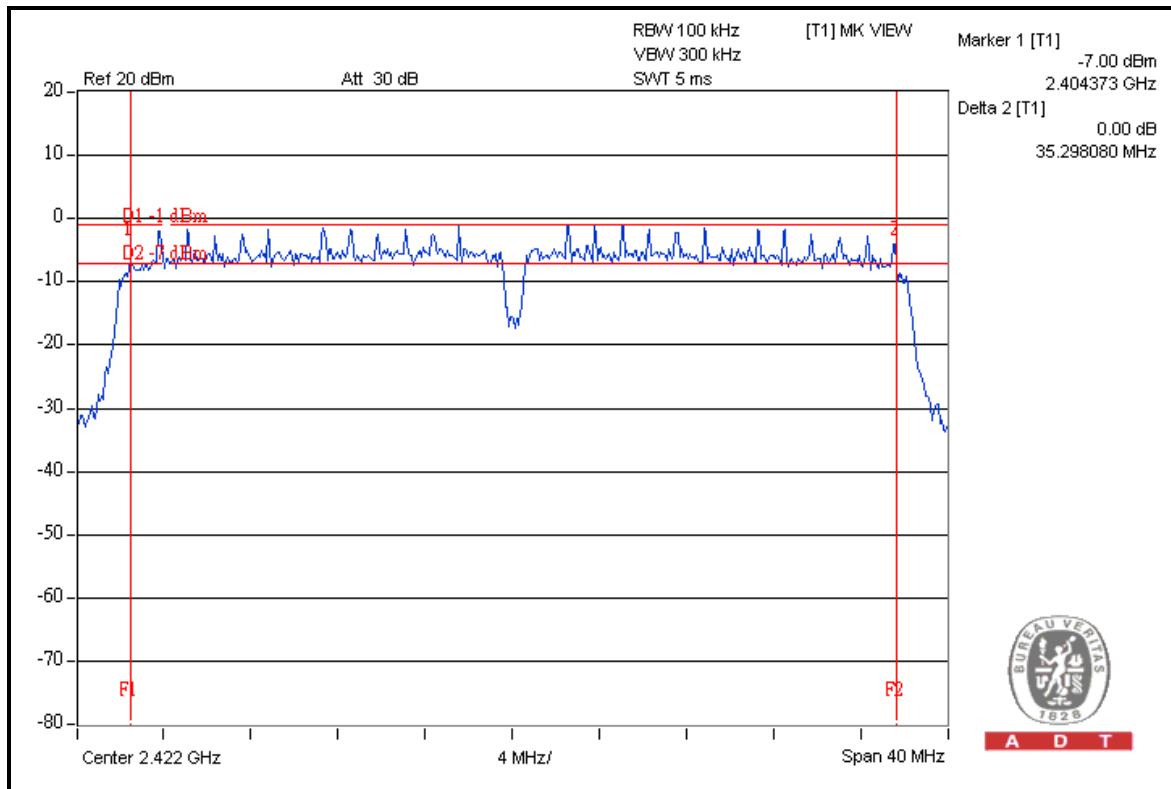


A D T

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	35.29	35.27	0.5	PASS
4	2437	35.28	35.18	0.5	PASS
7	2452	35.21	35.19	0.5	PASS

FOR CHAIN 0: CH 1





A D T

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
Anritsu Power Sensor	MA2411B	0738404	Apr. 26, 2011	Apr. 25, 2012
Anritsu Power Meter	ML2495A	0842014	Apr. 26, 2011	Apr. 25, 2012

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.

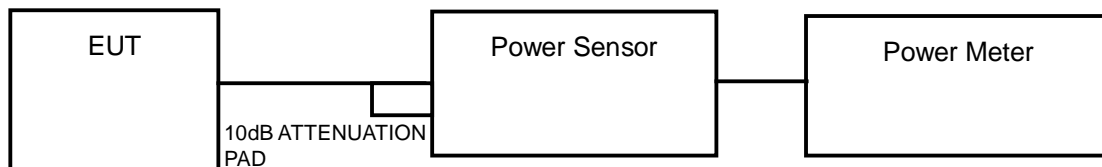
4.4.3 TEST PROCEDURES

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

TEST MODE A:

802.11b

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)	POWER OUTPUT (mW)	POWER LIMIT (dBm)	PASS / FAIL
1	2412	19.4	86.5	30	PASS
6	2437	19.3	85.7	30	PASS
11	2462	19.3	84.7	30	PASS

802.11g

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)	POWER OUTPUT (mW)	POWER LIMIT (dBm)	PASS / FAIL
1	2412	23.0	201.4	30	PASS
6	2437	23.4	217.3	30	PASS
11	2462	23.2	207.5	30	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	22.8	22.6	373.8	25.7	30	PASS
6	2437	22.3	23.0	369.1	25.7	30	PASS
11	2462	23.0	22.5	378.1	25.8	30	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2422	22.2	23.0	365.6	25.6	30	PASS
4	2437	22.5	22.8	370.1	25.7	30	PASS
7	2452	22.4	23.0	373.2	25.7	30	PASS



A D T

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
R&S SPECTRUM ANALYZER	FSP40	100036	Apr. 29, 2011	Apr. 28, 2012

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

4.5.3 TEST PROCEDURE

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

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

Follow method 2 of KDB 662911 D01 Multiple Transmitter Output v01 to calculate total power density of 2 TX port.

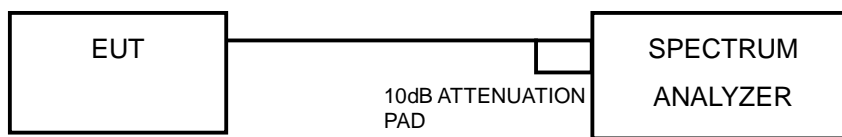


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4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



A D T

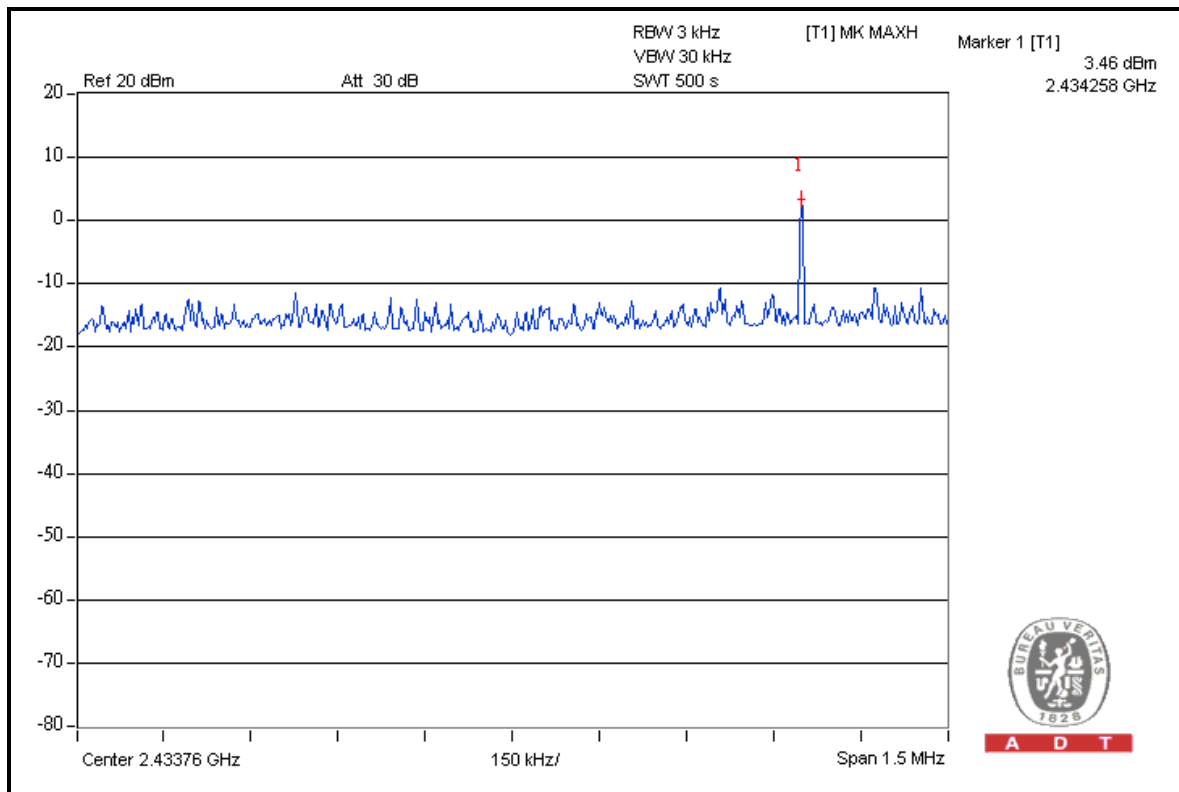
4.5.7 TEST RESULTS

TEST MODE A:

802.11b

CHANNEL	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
1	2412	3.12	8	PASS
6	2437	3.46	8	PASS
11	2462	3.36	8	PASS

CH 6



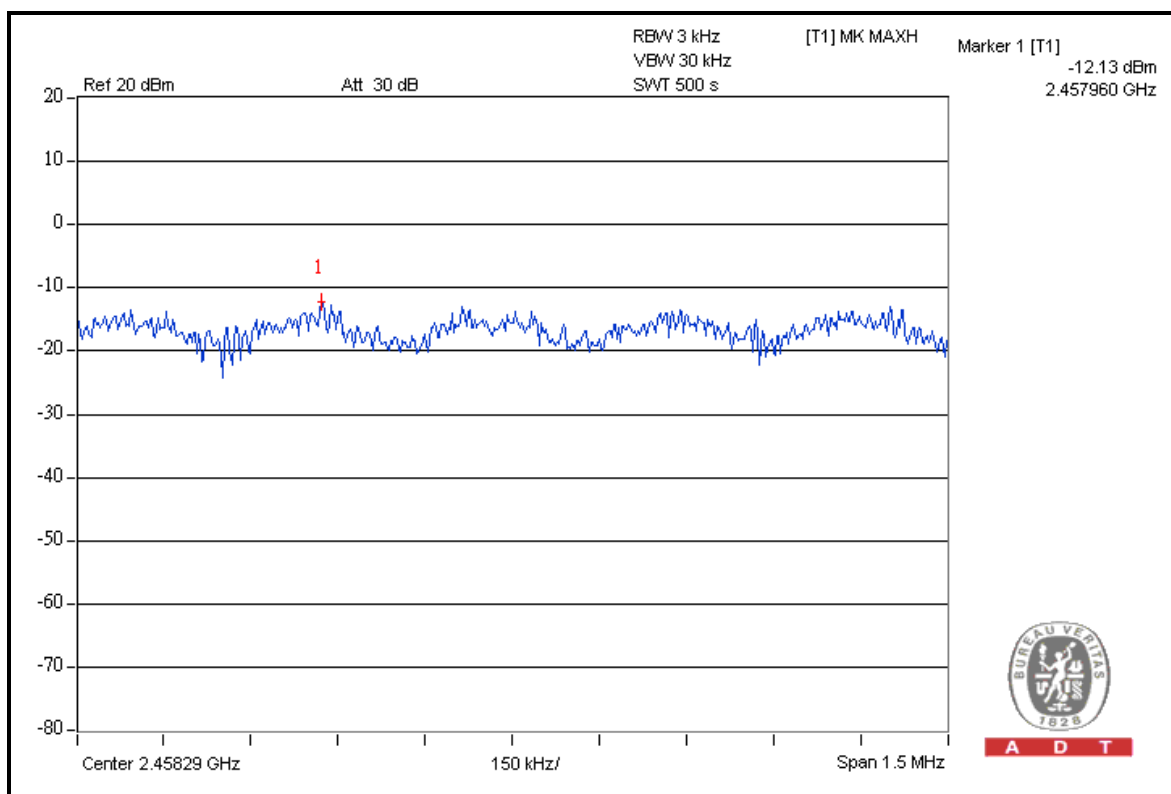


A D T

802.11g

CHANNEL	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
1	2412	-14.90	8	PASS
6	2437	-13.73	8	PASS
11	2462	-12.13	8	PASS

CH 11



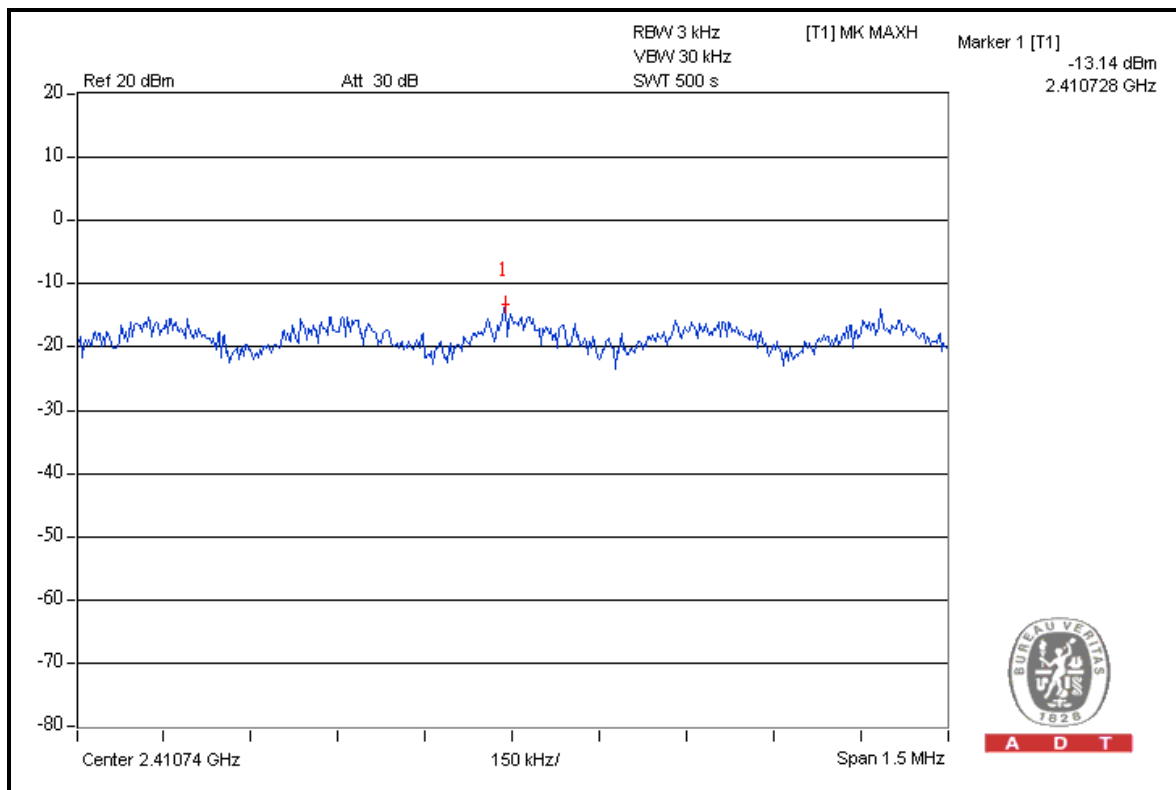


A D T

802.11n (20MHz)

CHAIN	CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
			MEASURED	10 log (N=2) dB			
0	1	2412	-13.1	3.01	-10.1	8	PASS
	6	2437	-14.2	3.01	-11.2	8	PASS
	11	2462	-14.1	3.01	-11.1	8	PASS
1	1	2412	-14.0	3.01	-11.0	8	PASS
	6	2437	-15.3	3.01	-12.3	8	PASS
	11	2462	-14.1	3.01	-11.1	8	PASS

FOR CHAIN 0: CH 1



A D T

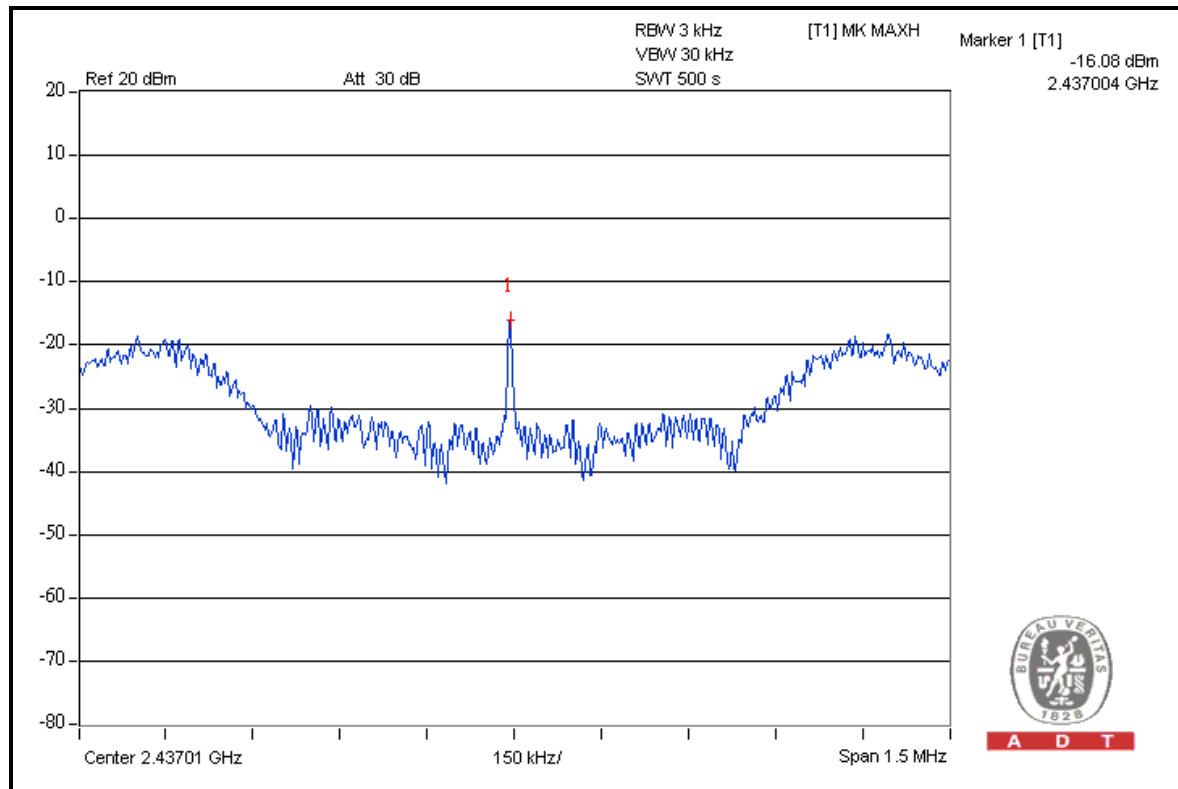


A D T

802.11n (40MHz)

CHAIN	CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
			MEASURED	10 log (N=2) dB			
0	1	2422	-17.1	3.01	-14.1	8	PASS
	4	2437	-16.4	3.01	-13.4	8	PASS
	7	2452	-17.5	3.01	-14.5	8	PASS
1	1	2422	-16.8	3.01	-13.8	8	PASS
	4	2437	-16.1	3.01	-13.1	8	PASS
	7	2452	-16.5	3.01	-13.5	8	PASS

FOR CHAIN 1: CH 4



A D T



A D T

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	CALIBRATED UNTIL
FOR CONDUCTED MEASUREMENT:				
R&S SPECTRUM ANALYZER	FSP 40	100036	Apr. 29, 2011	Apr. 28, 2012
FOR RADIATED MEASUREMENT:				
HP Preamplifier	8447D	2432A03504	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01924	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01292	Mar. 04, 2011	Mar. 03, 2012
ROHDE & SCHWARZ TEST RECEIVER	ESU26	100005	Jun. 10, 2010	Jun. 09, 2011
Schwarzbeck Antenna	VULB 9168	137	Apr. 12, 2011	Apr. 11, 2012
Schwarzbeck Antenna	VHBA 9123	480	May 06, 2011	May 05, 2012
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 20, 2010	Aug. 19, 2011
EMCO Horn Antenna	3115	6714	Oct. 26, 2010	Oct. 25, 2011
EMCO Horn Antenna	3115	9312-4192	Apr. 22, 2011	Apr. 21, 2012
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA

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

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

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

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6.



A D T

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

TEST MODE A:

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)	101.2	51.7	49.5	74.00
2412.00 (AV)	98.7	56.5	42.2	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)	104.2	53.8	50.4	74.00
2462.00 (AV)	100.3	61.9	38.4	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.



A D T

TEST MODE B:

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)	100.7	51.7	49.0	74.00
2412.00 (AV)	97.5	56.5	41.0	54.00

RESTRICT BAND (2483.5 ~ 2500 MHz)

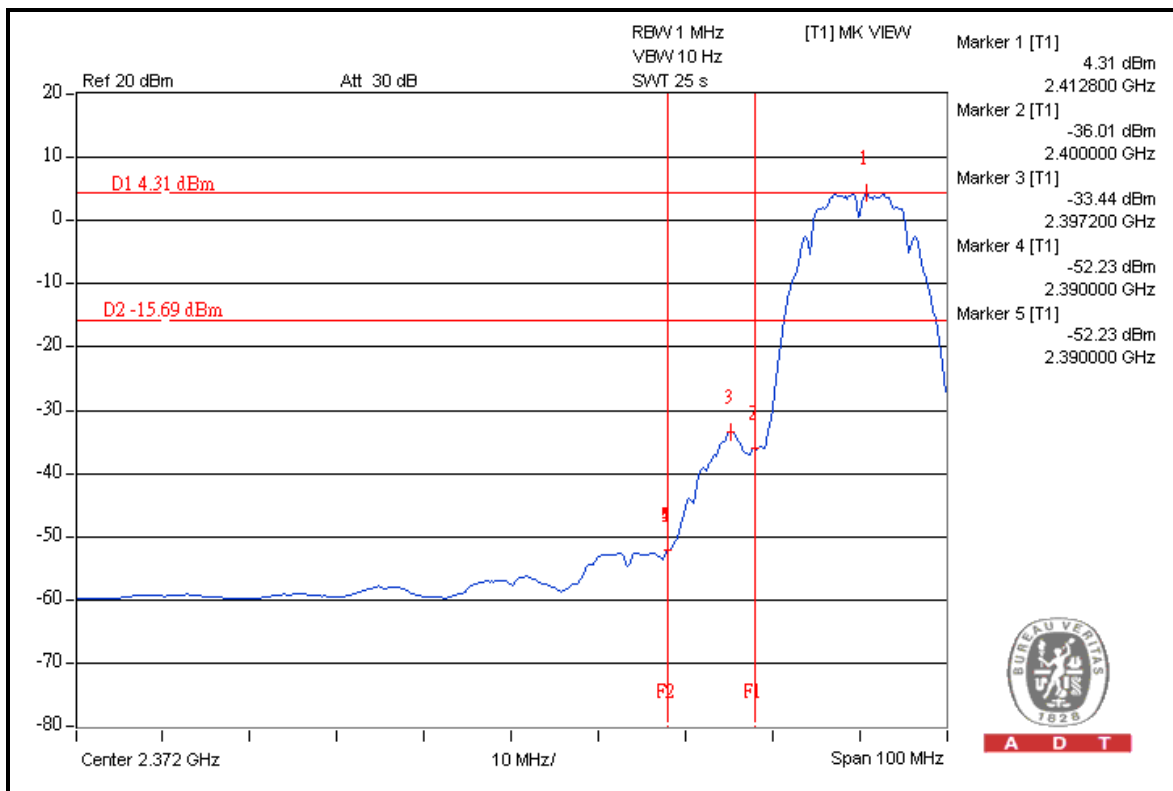
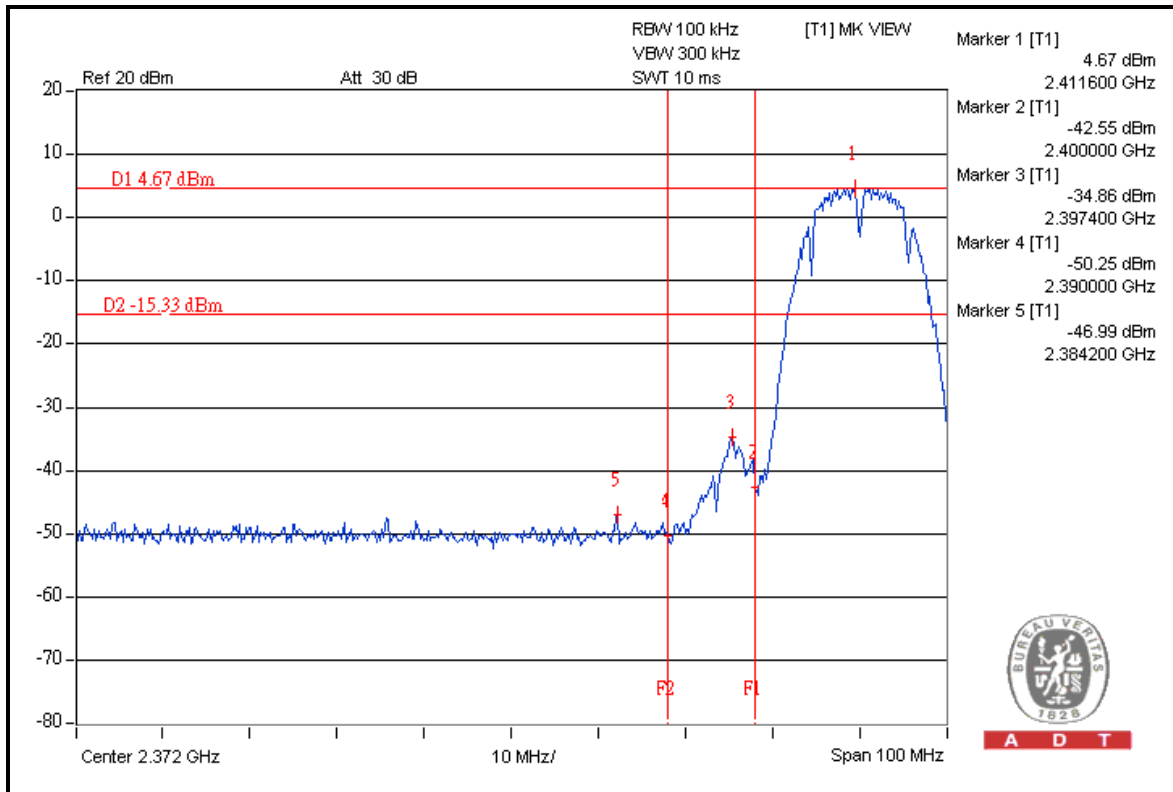
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	103.3	53.8	49.5	74.00
2462.00 (AV)	99.6	61.9	37.7	54.00

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.

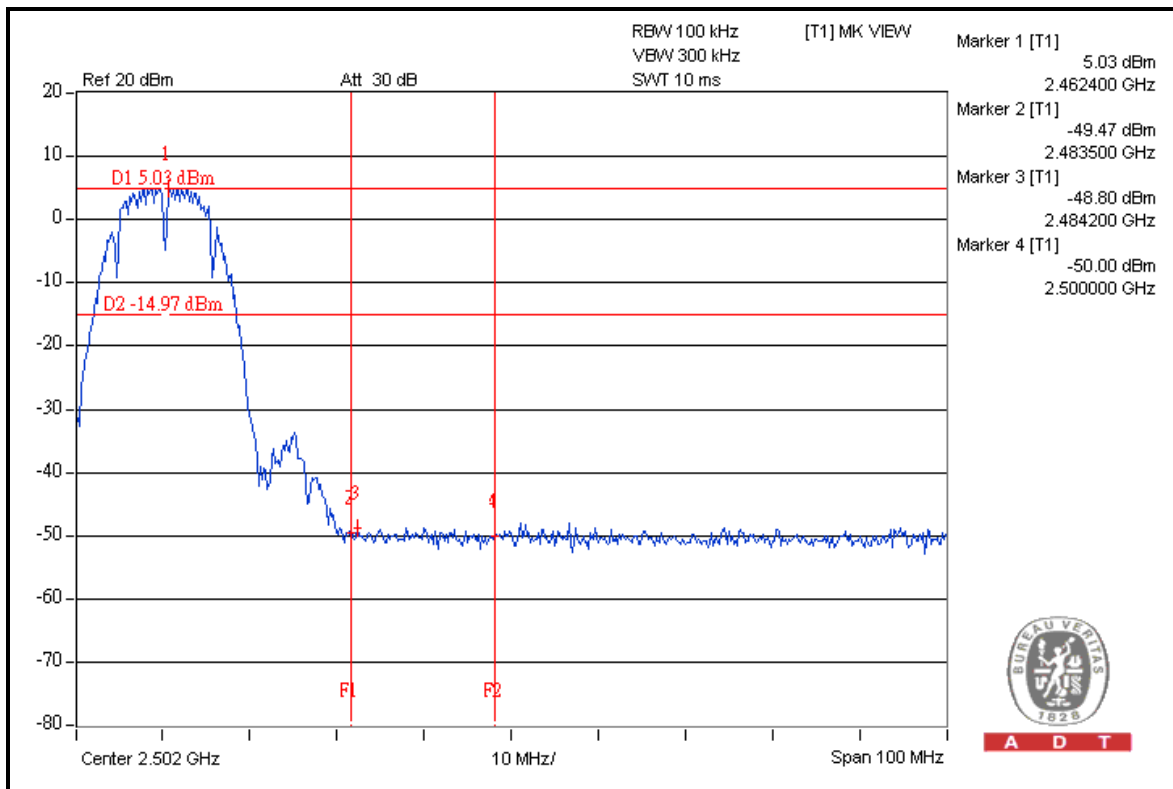
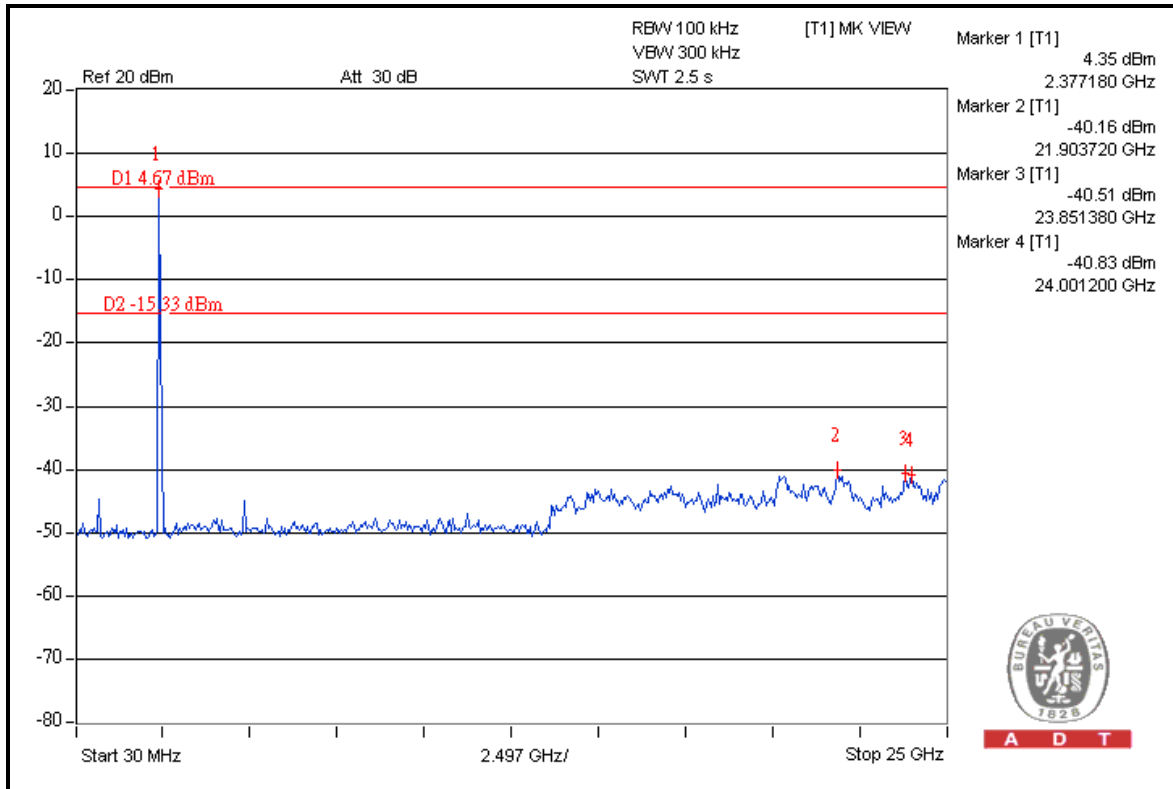


A D T



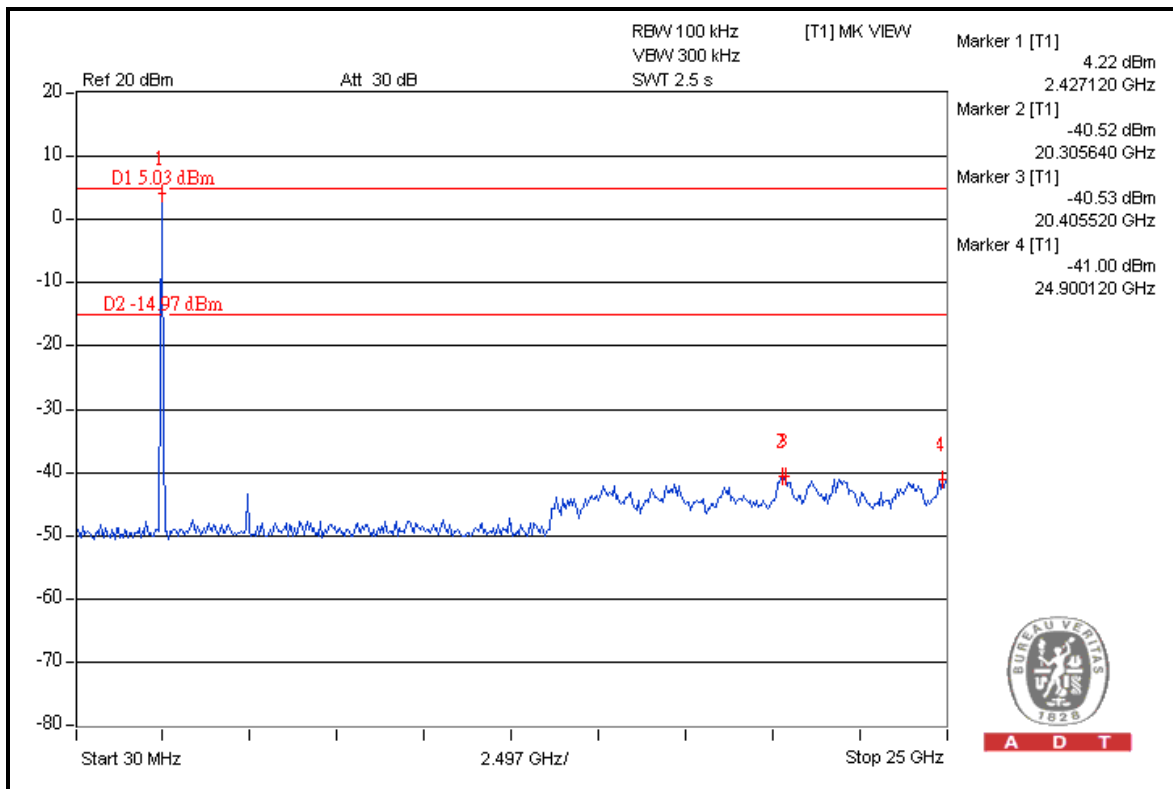
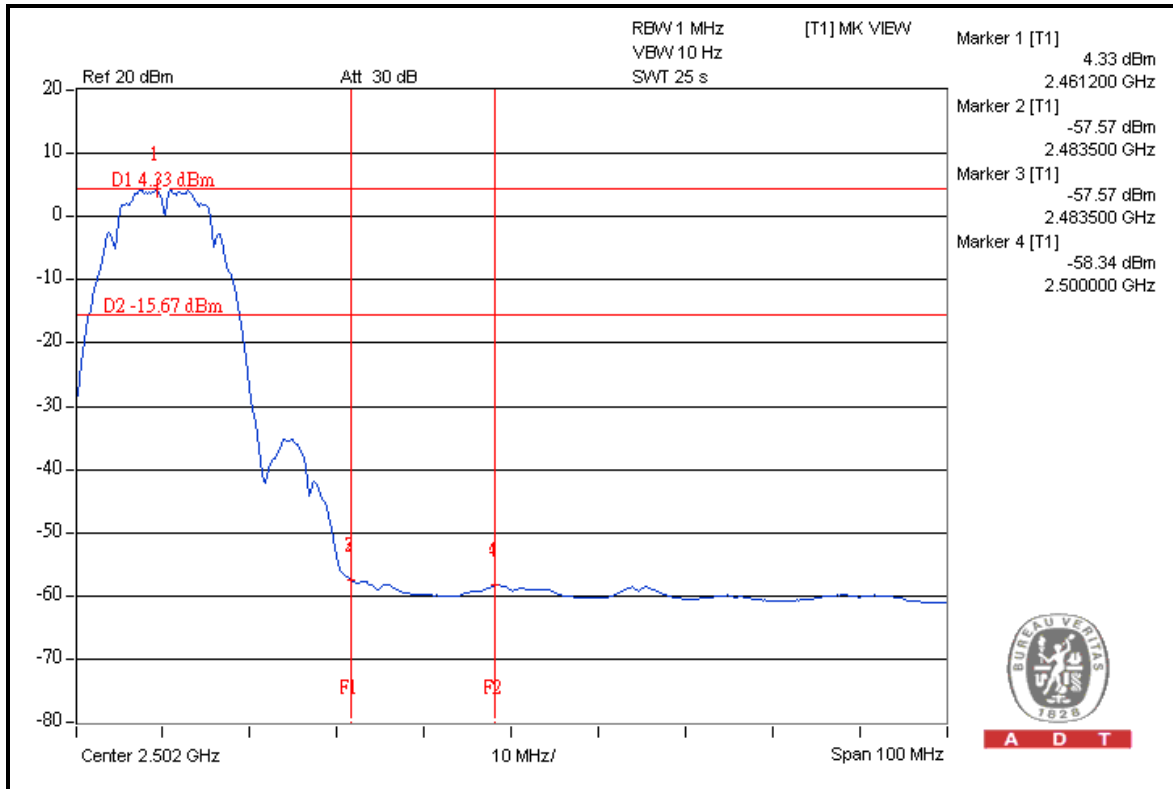


A D T





A D T





A D T

802.11g

TEST MODE A:

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)	107.2	49.2	58.0	74.00
2412.00 (AV)	86.9	45.1	41.8	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)	105.4	45.1	60.3	74.00
2462.00 (AV)	88.7	43.7	45.0	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.



A D T

TEST MODE B:

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)	106.6	49.2	57.4	74.00
2412.00 (AV)	89.8	45.1	44.7	54.00

RESTRICT BAND (2483.5 ~ 2500 MHz)

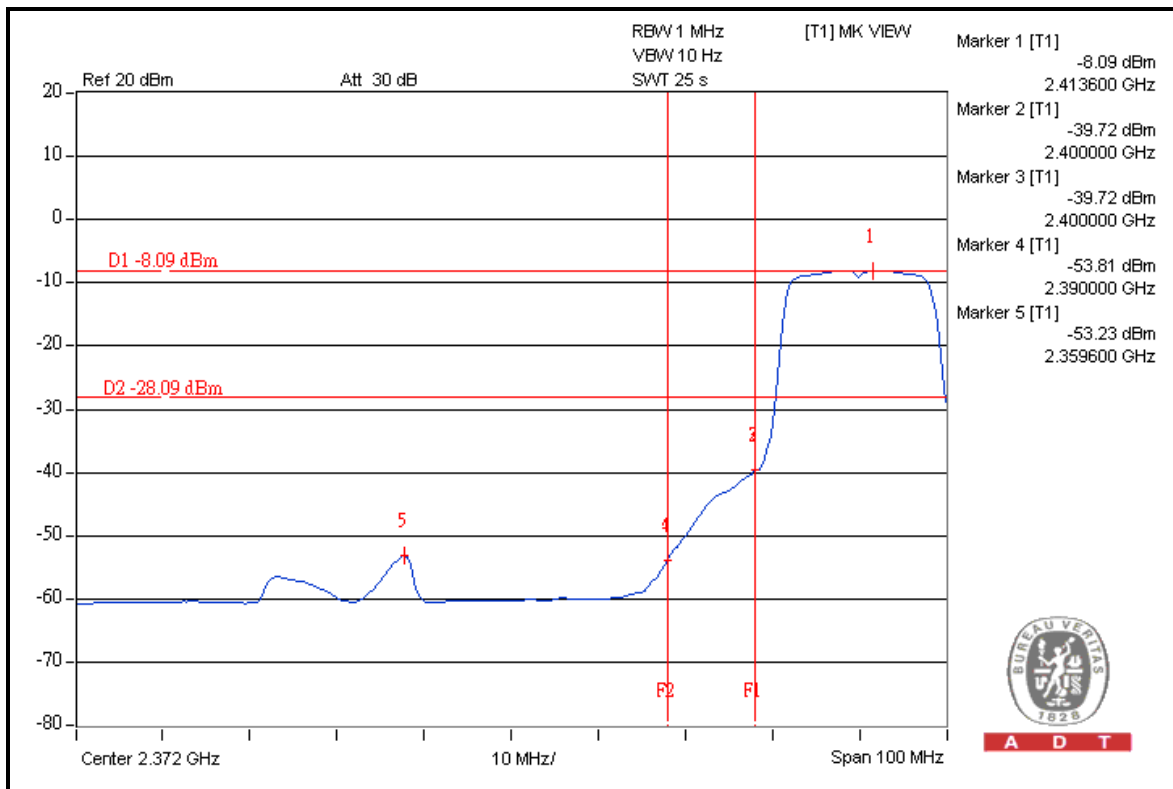
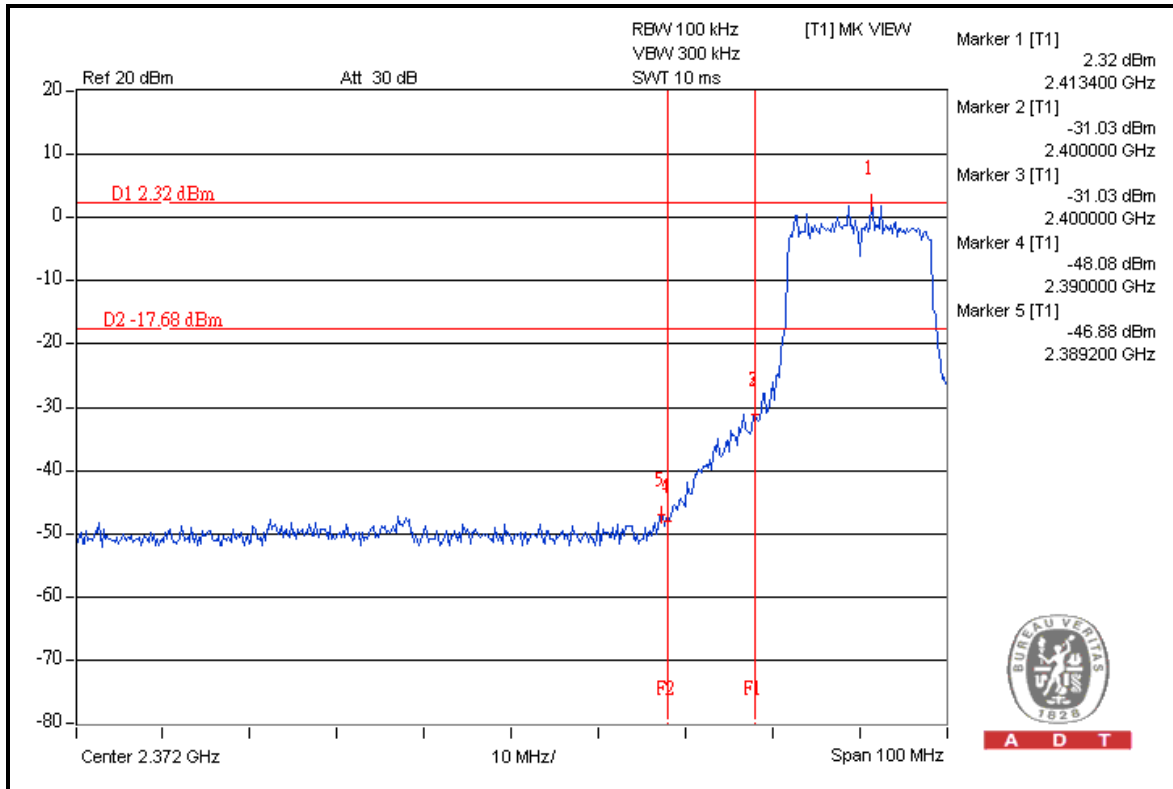
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	104.7	45.1	59.6	74.00
2462.00 (AV)	87.3	43.7	43.6	54.00

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.

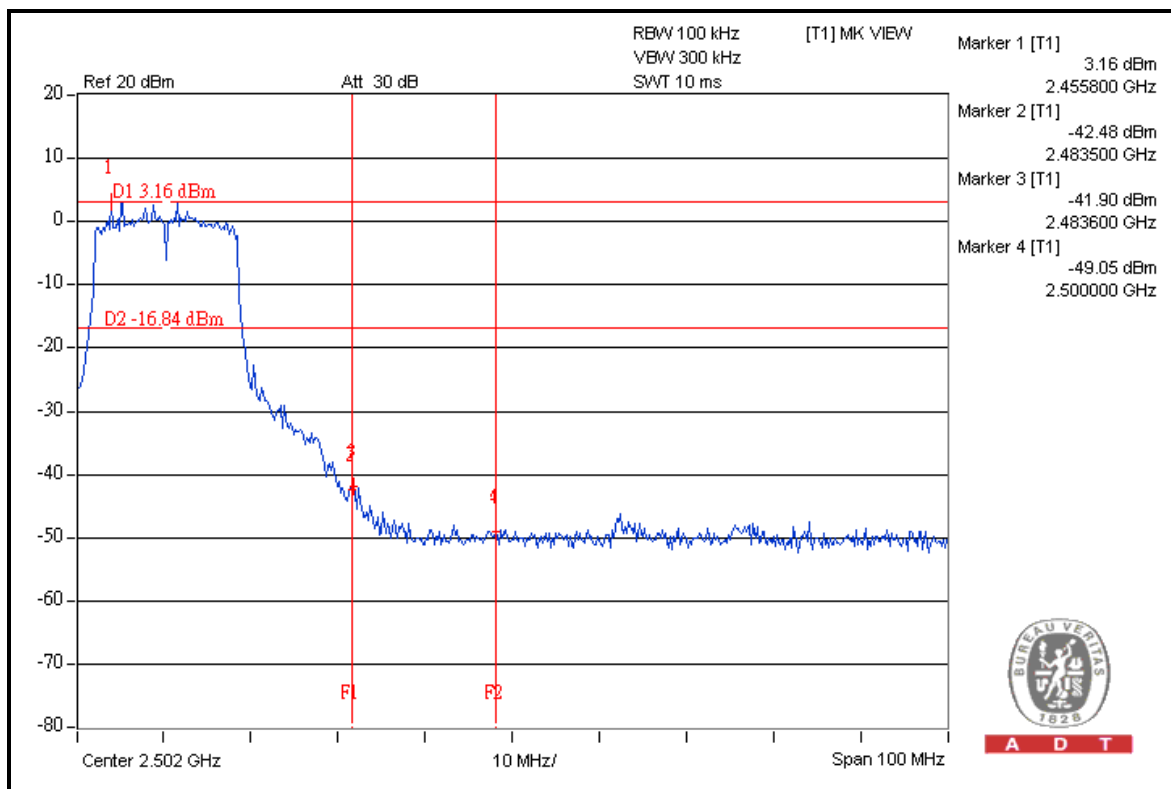
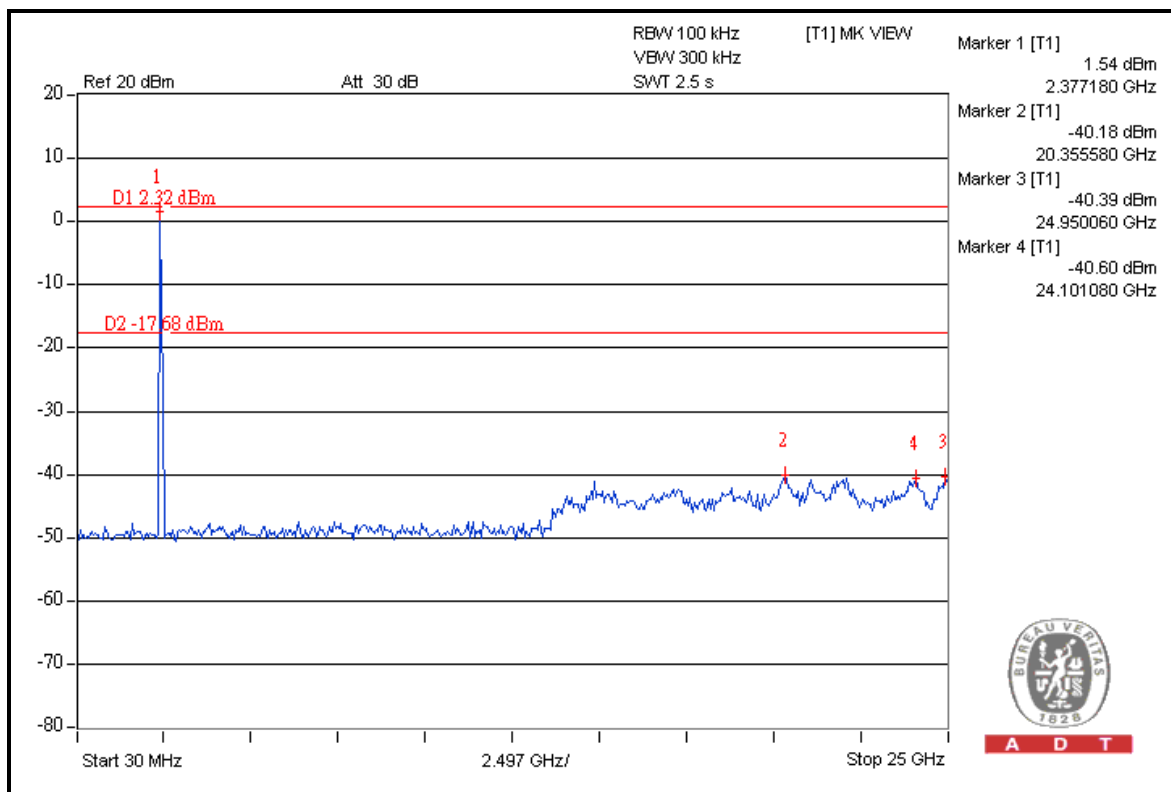


A D T



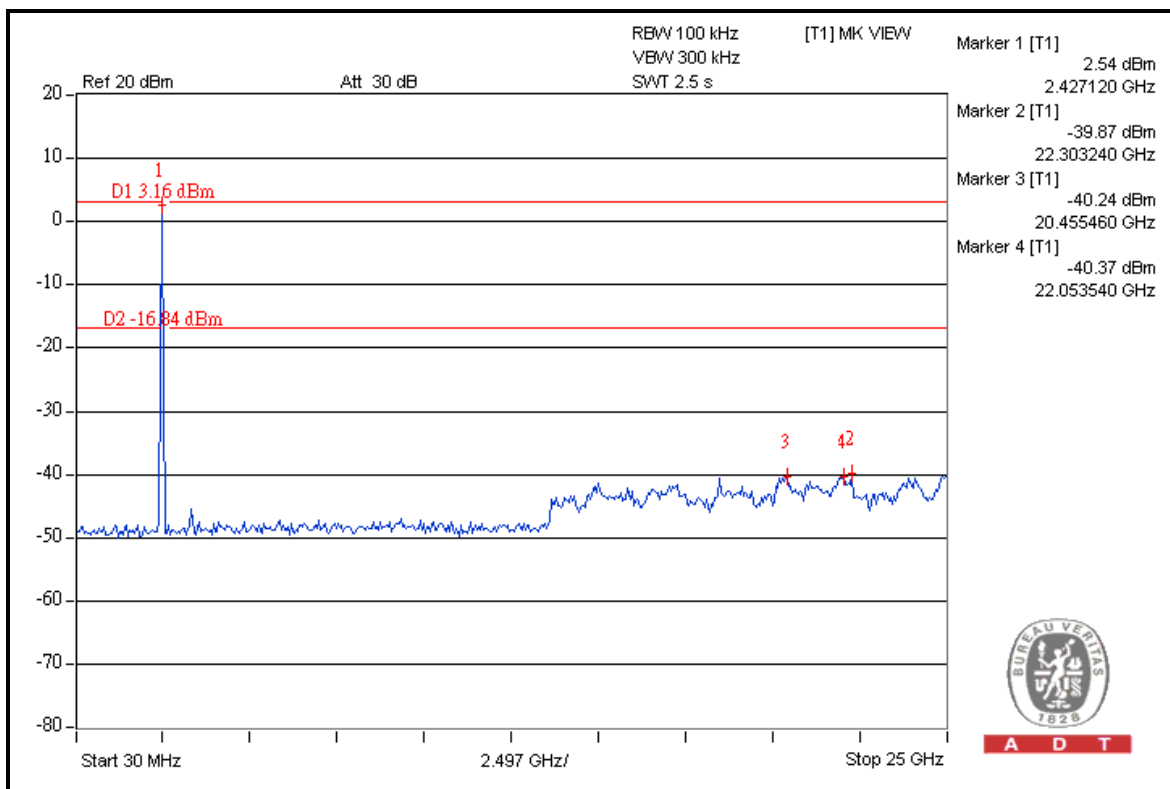
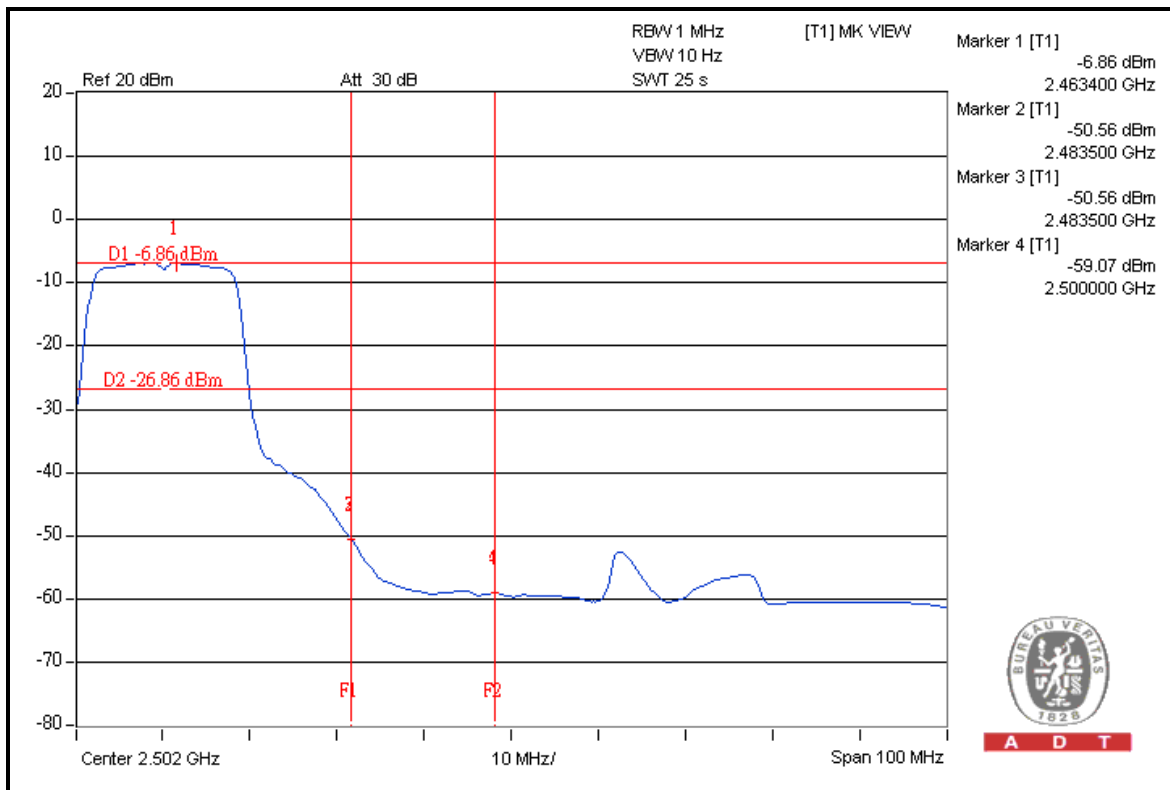


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A D T





A D T

802.11n (20MHz)

TEST MODE A:

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)	107.1	42.7	64.4	74.00
2412.00 (AV)	81.3	34.3	47.0	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)	108.7	46.9	61.8	74.00
2462.00 (AV)	84.5	37.5	47.0	54.00

NOTE:

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



A D T

TEST MODE B:

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)	106.3	40.4	65.9	74.00
2412.00 (AV)	82.6	30.0	52.6	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)	107.6	49.2	58.4	74.00
2462.00 (AV)	87.1	39.4	47.7	54.00

NOTE:

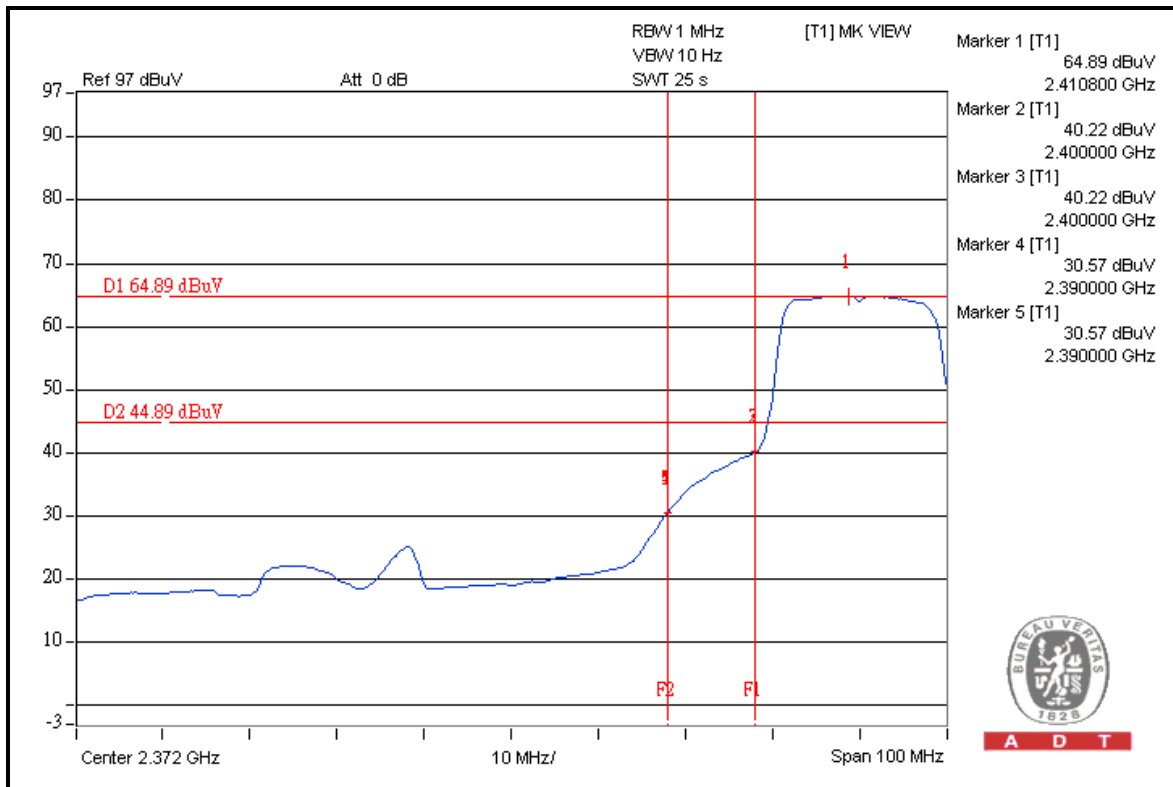
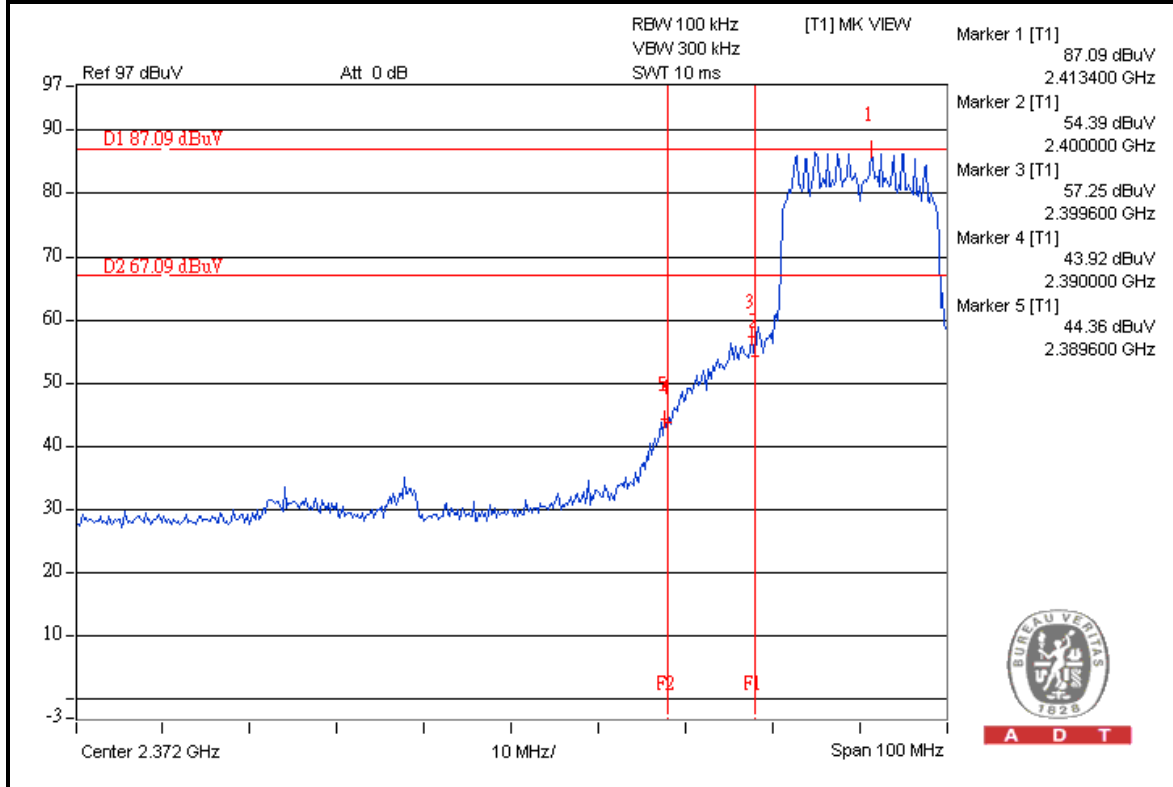
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T

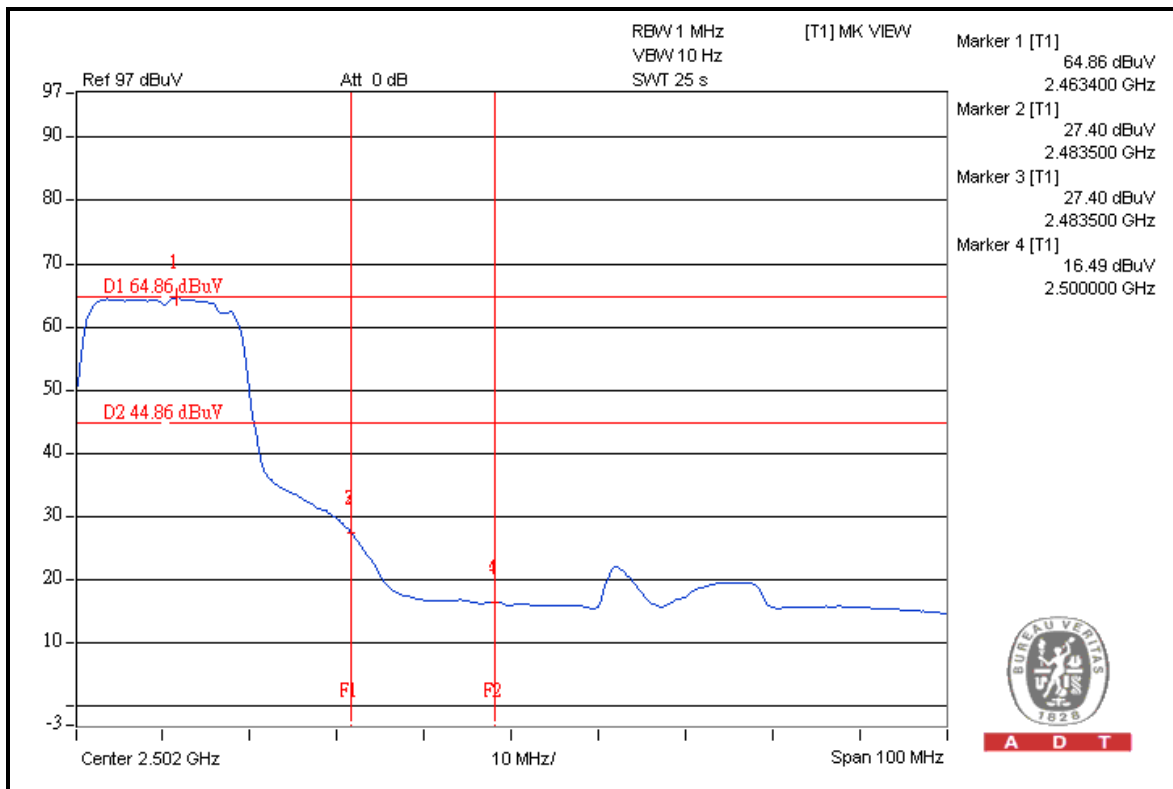
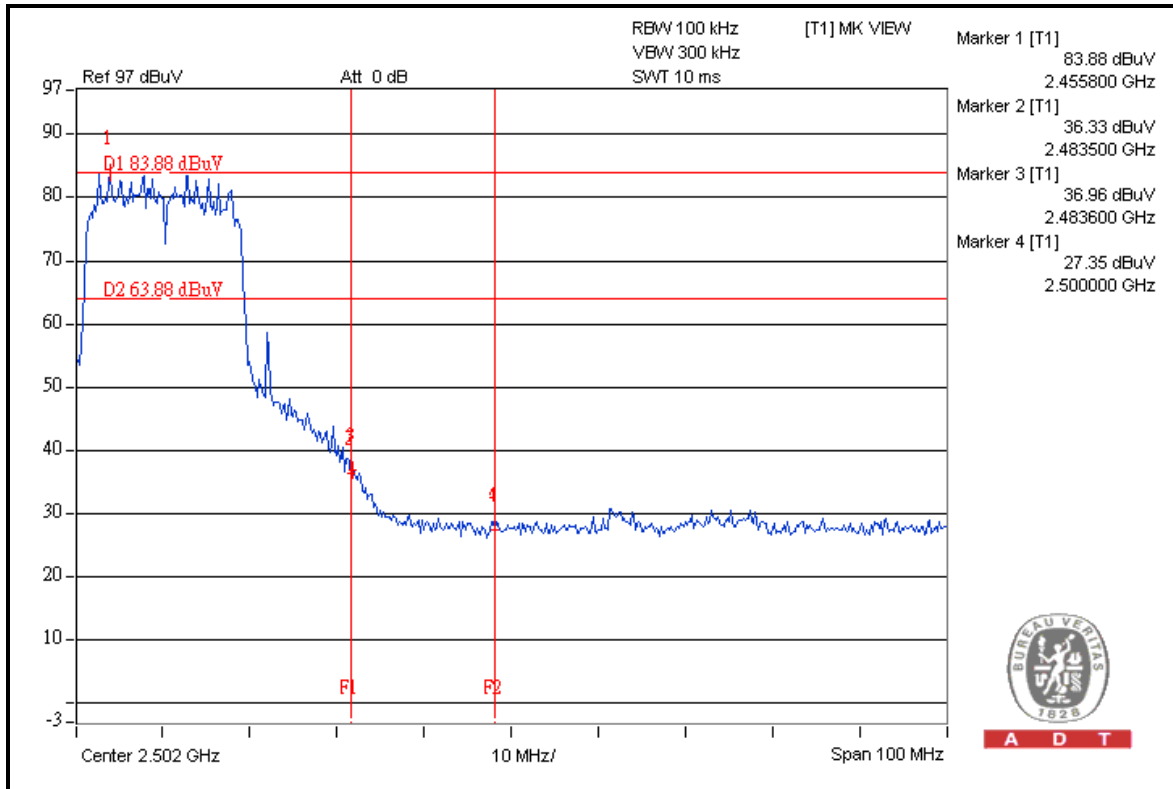
FOR RADIATED MEASURED (TWO CHAINS ON)

TEST MODE A:





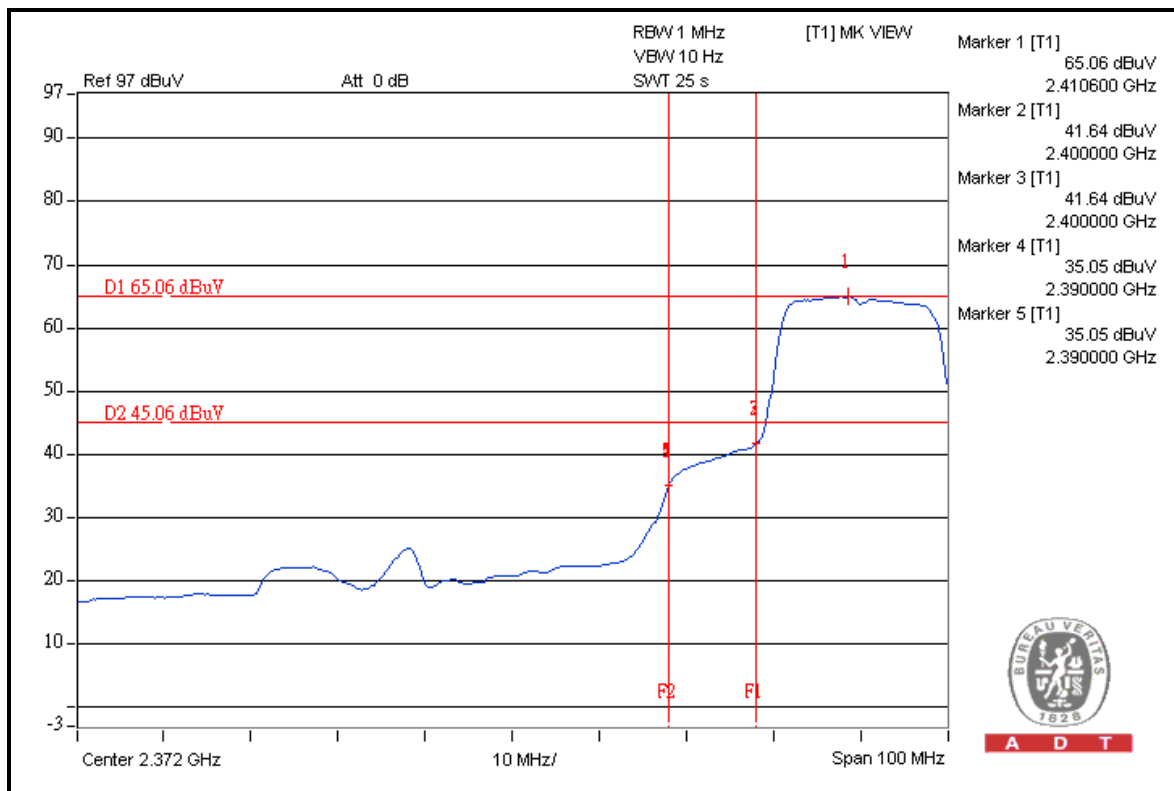
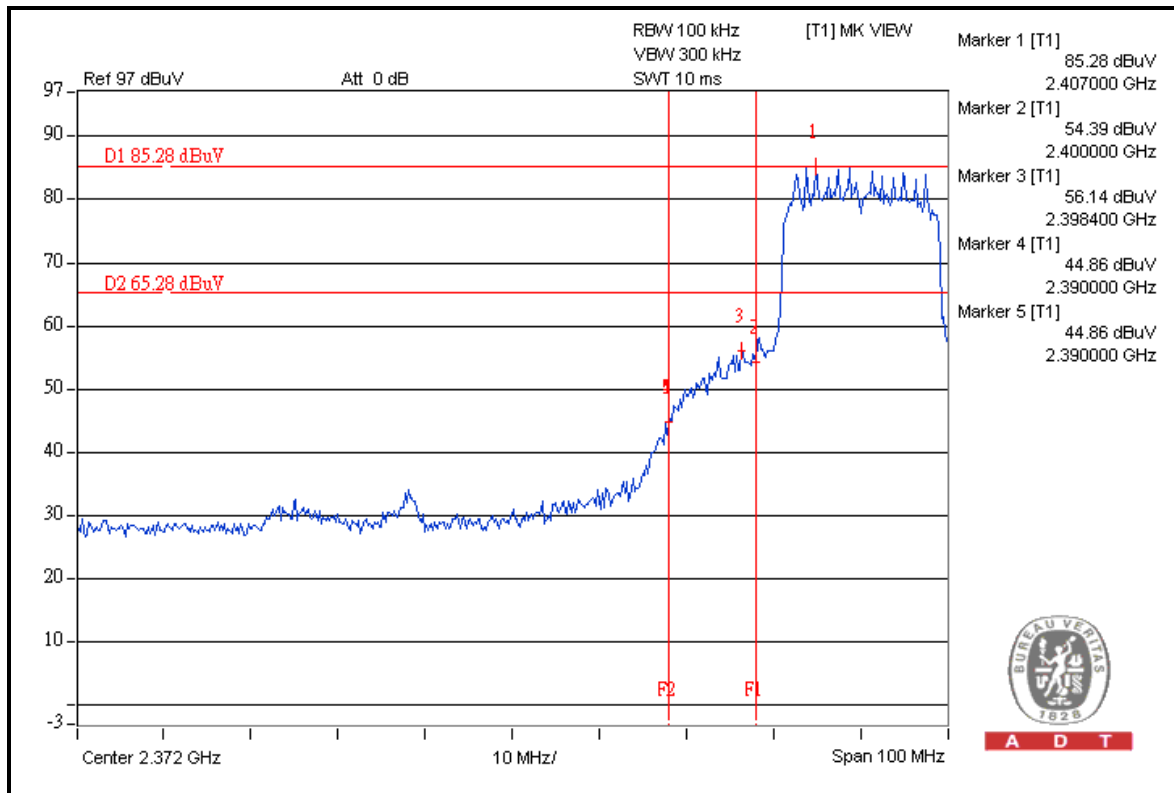
A D T





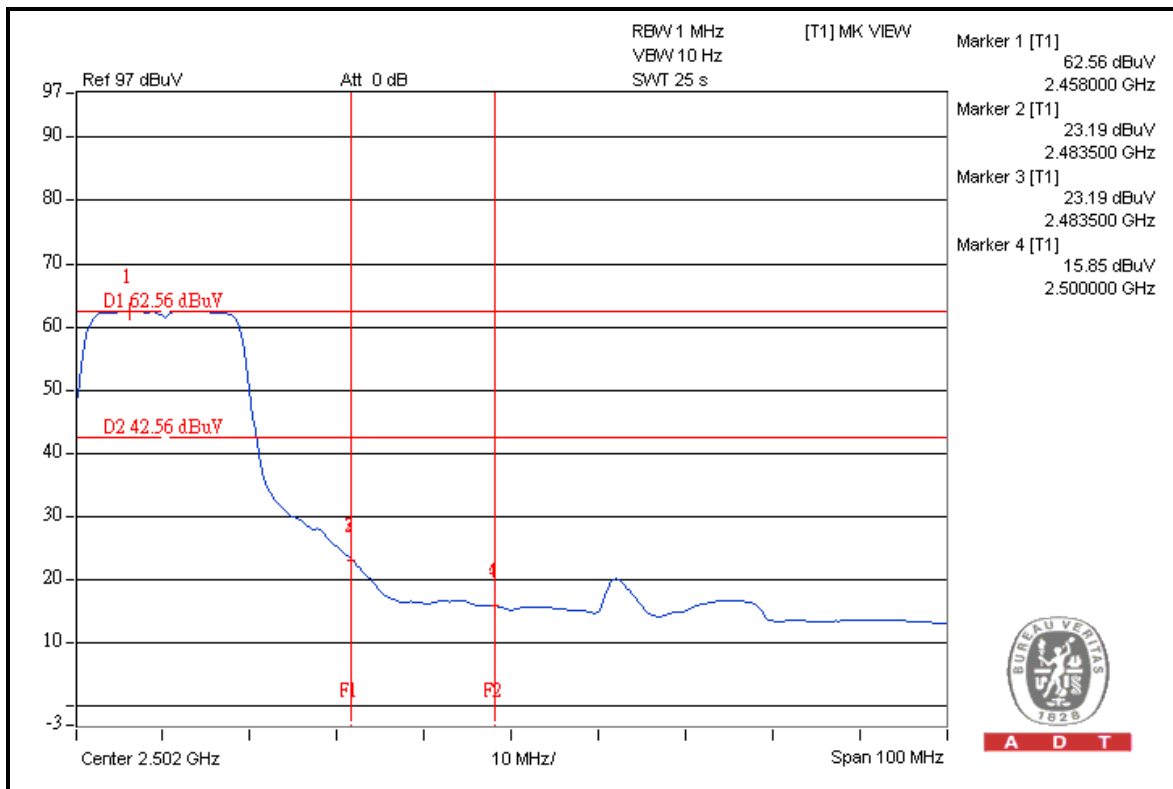
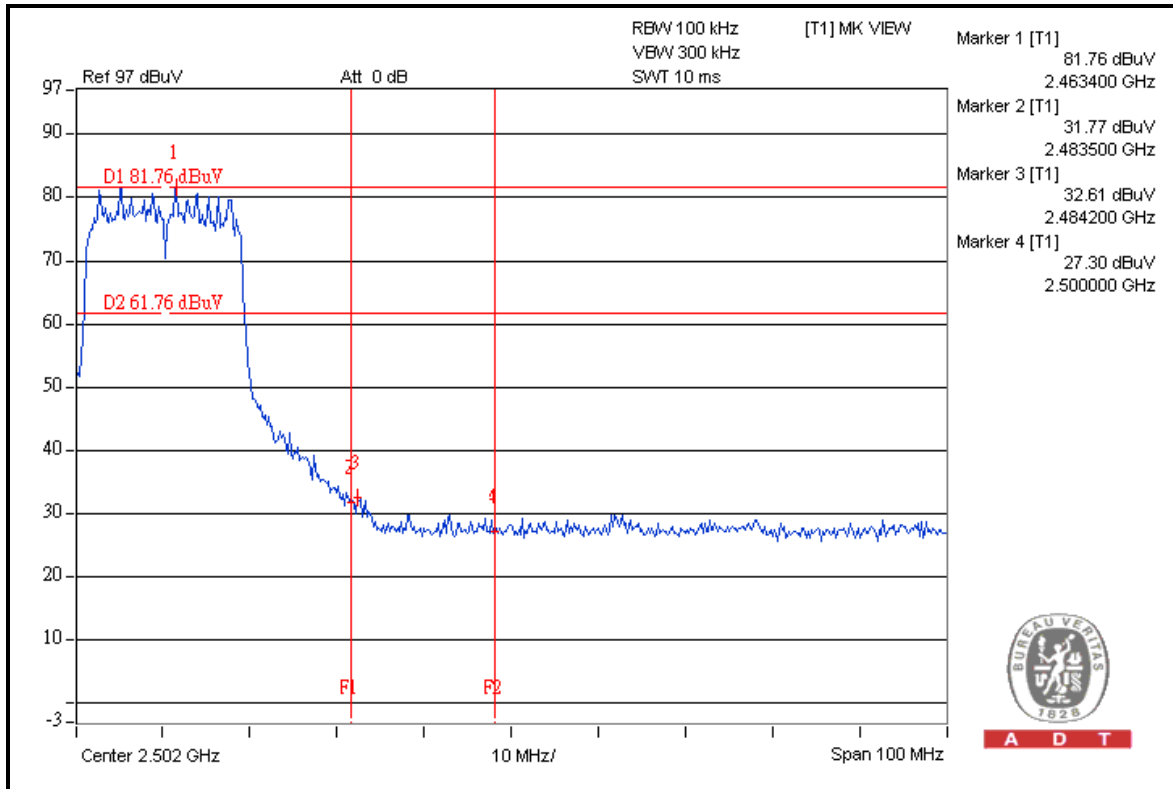
A D T

TEST MODE B:





A D T

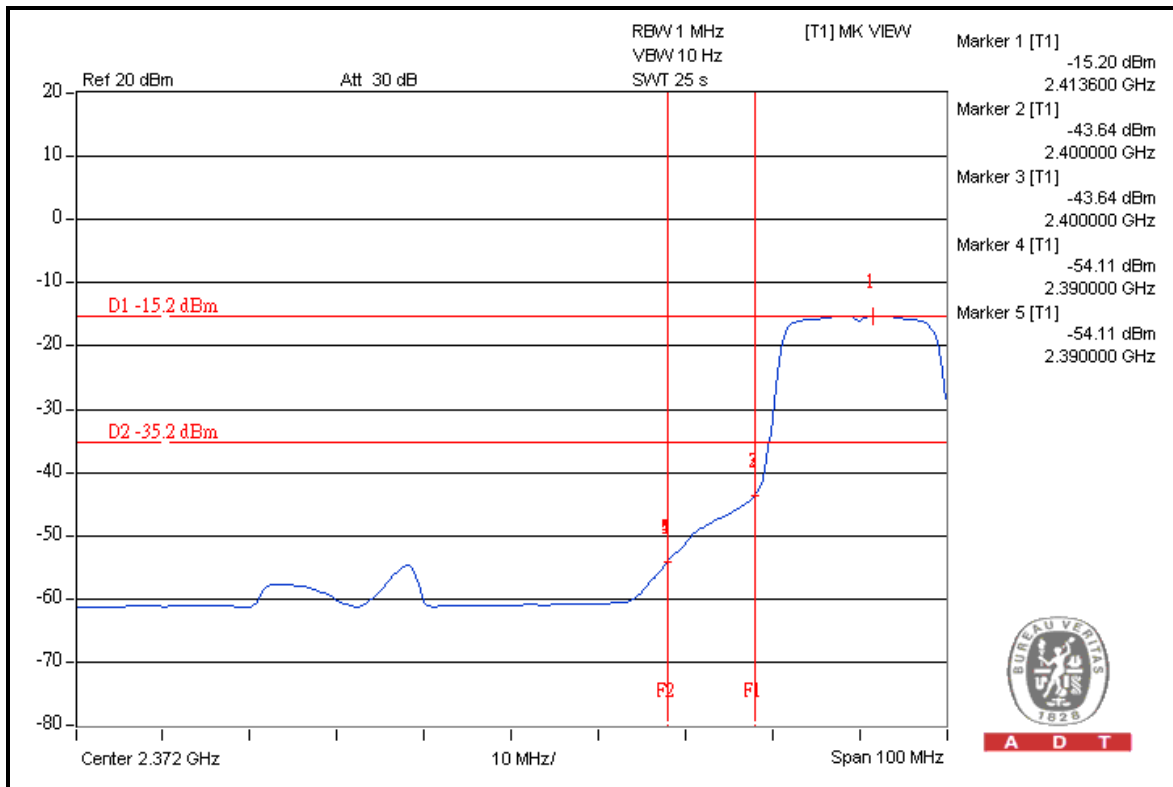
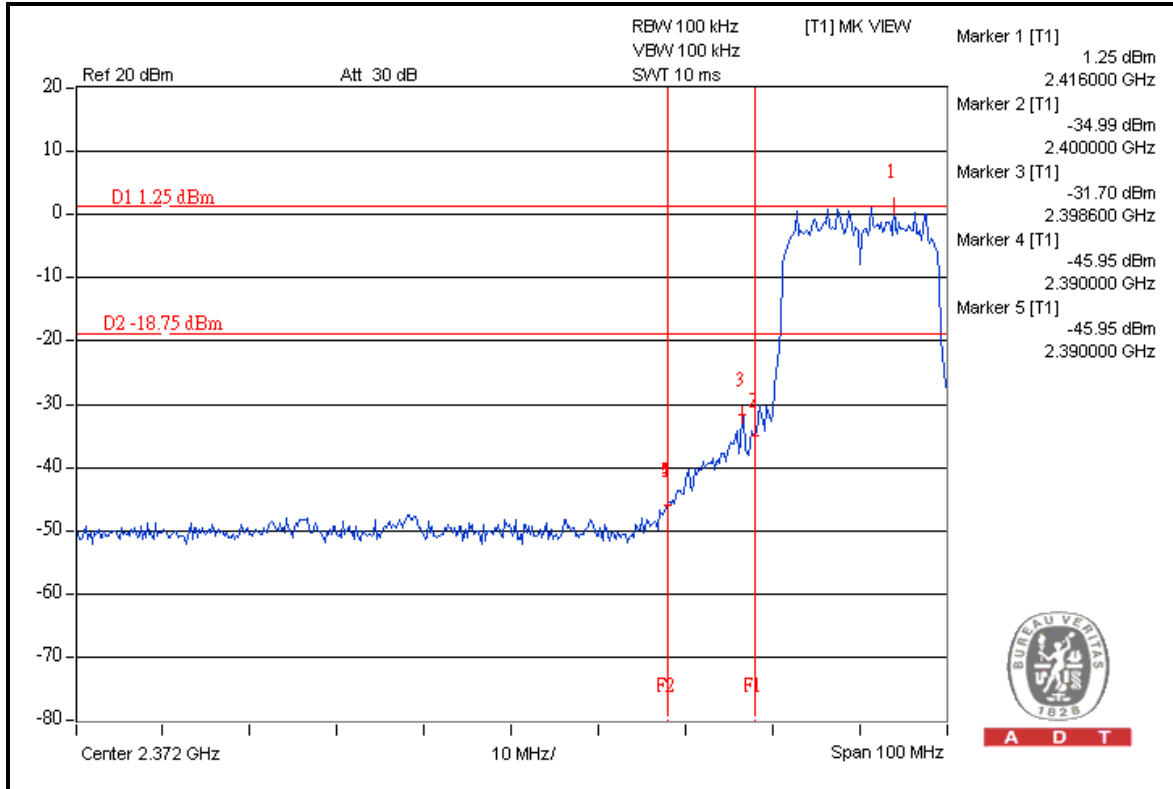




A D T

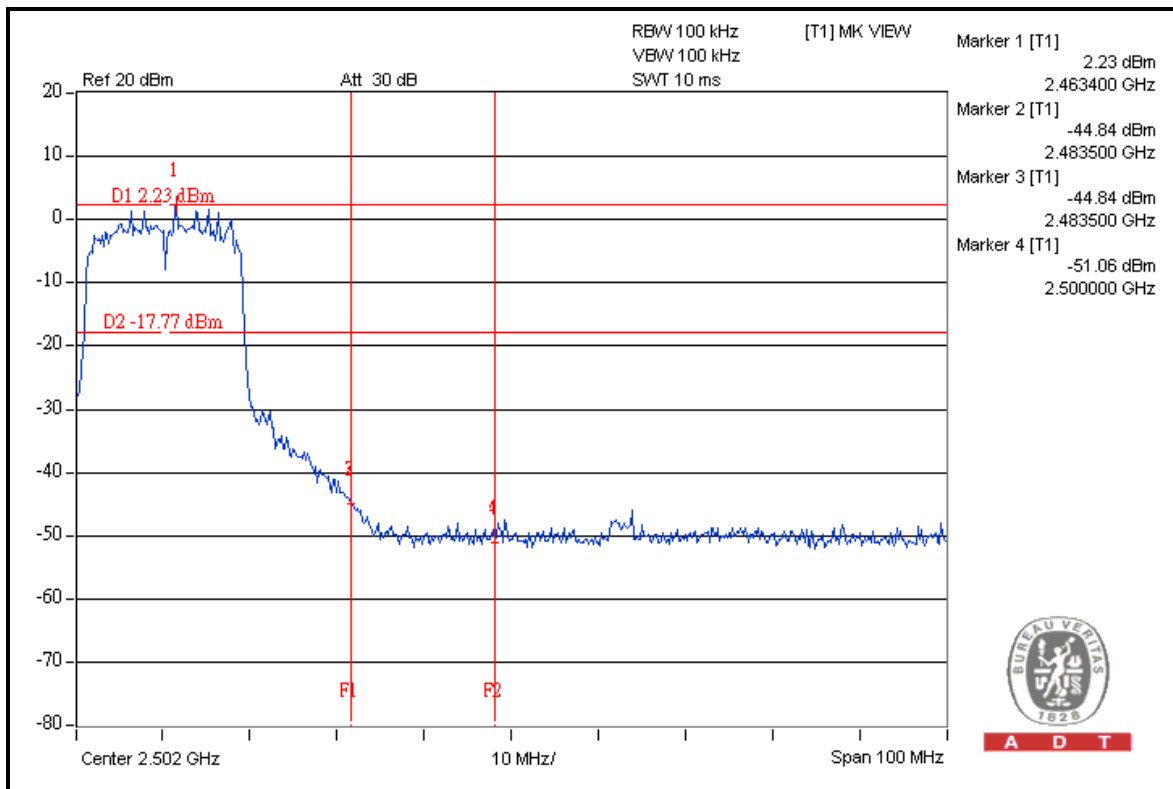
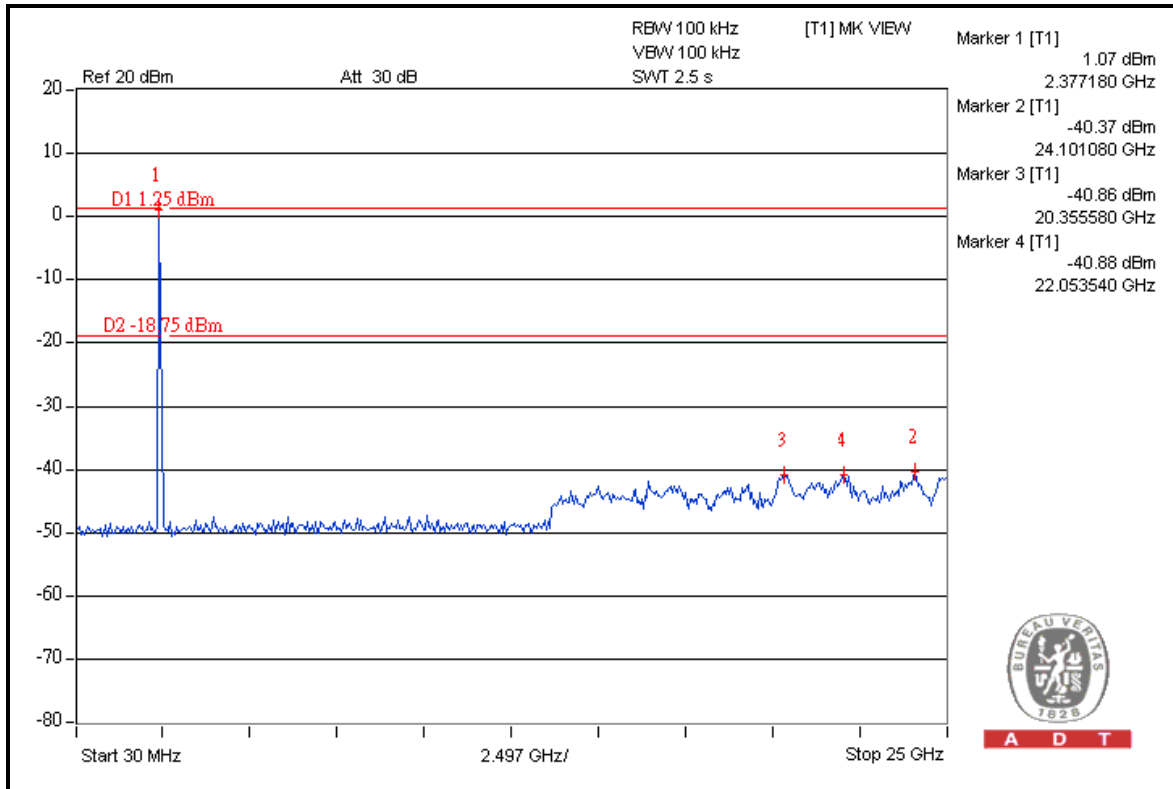
FOR CONDUCTED MEASURED

TEST MODE A: CHAIN 0



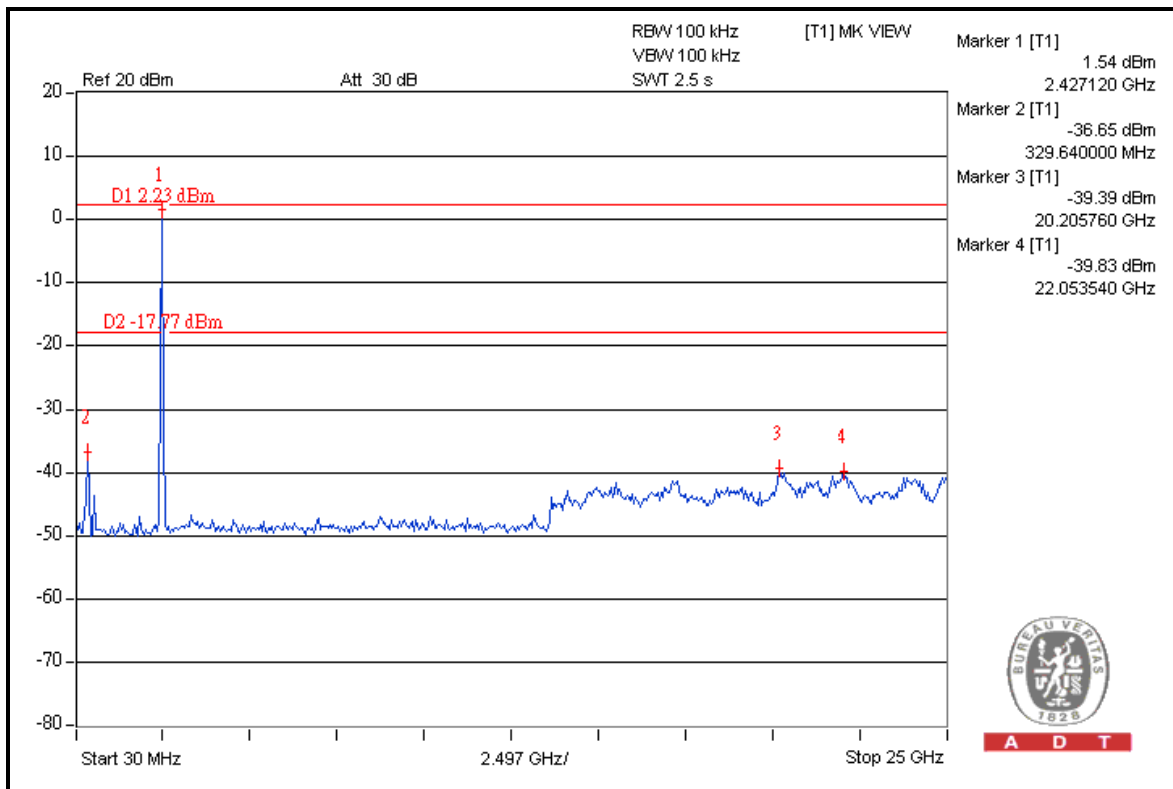
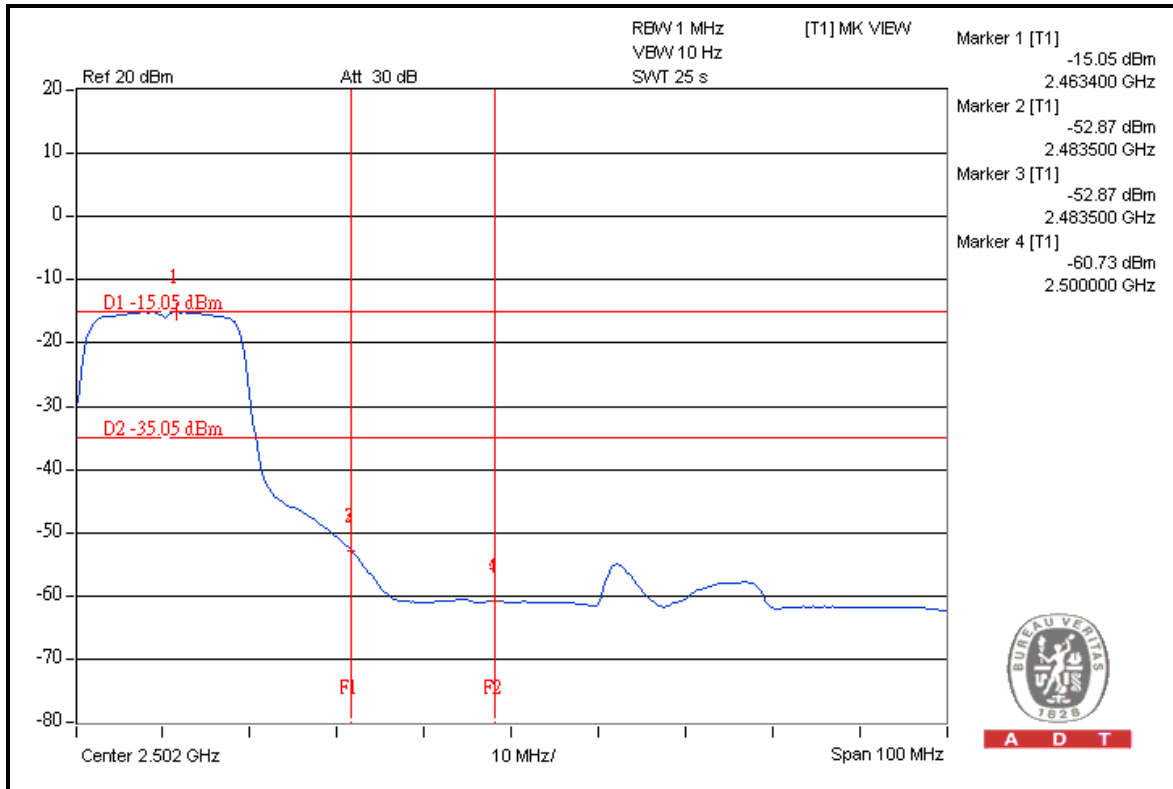


A D T





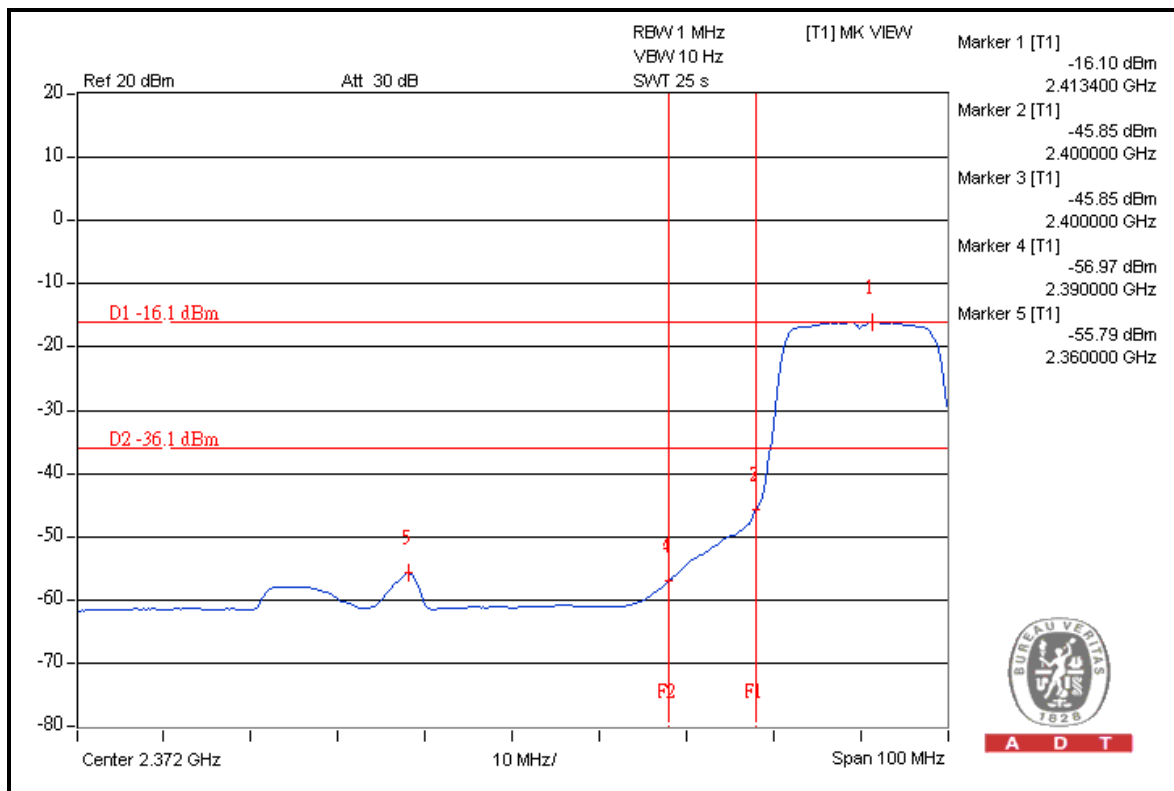
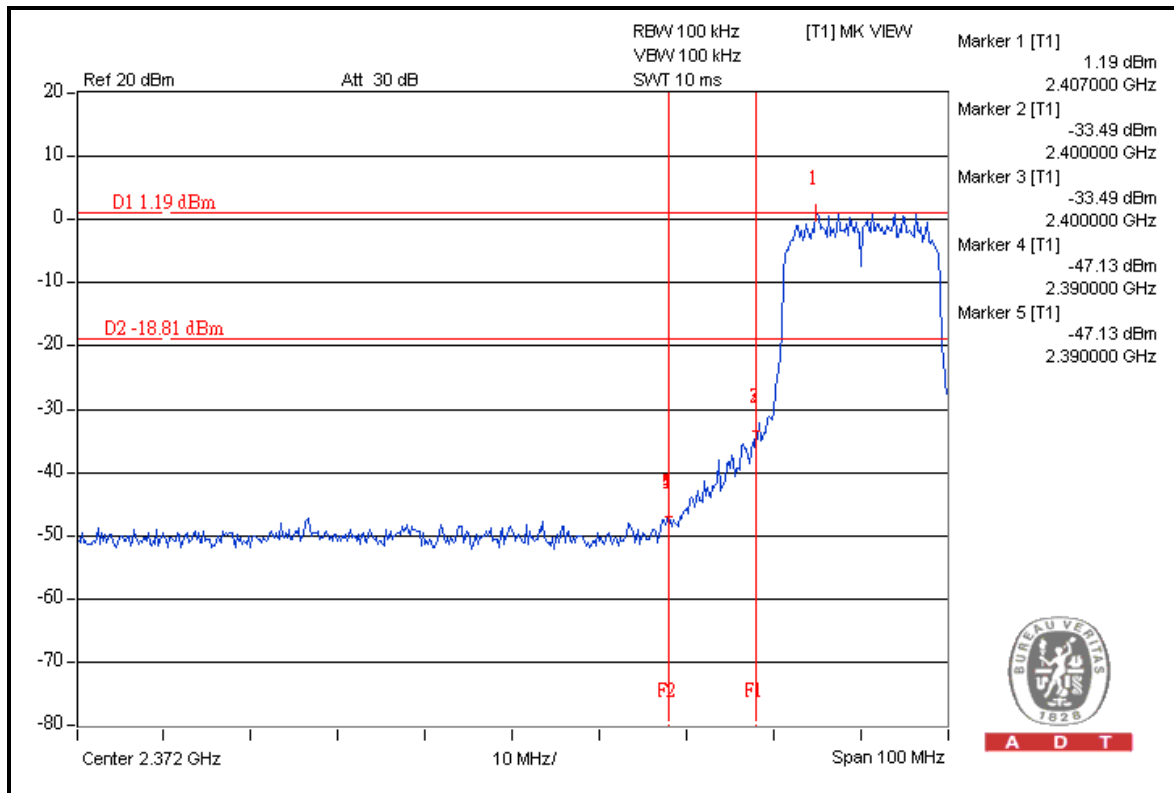
A D T





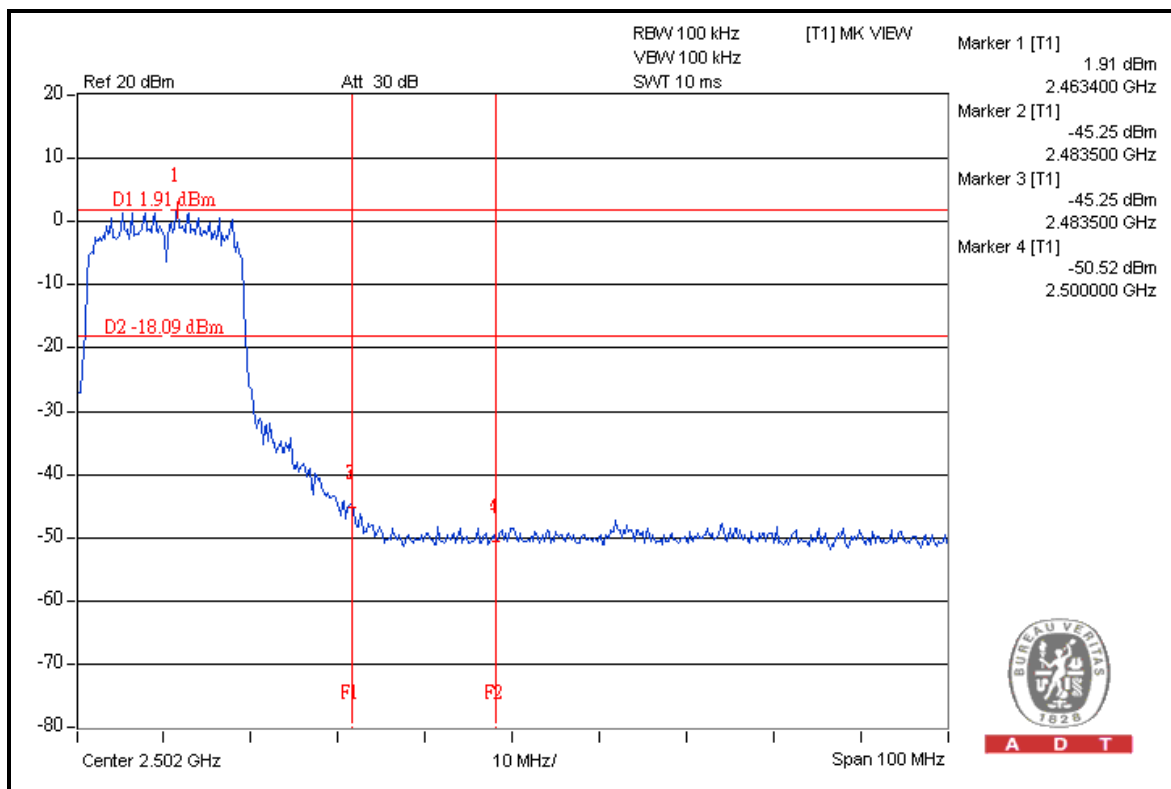
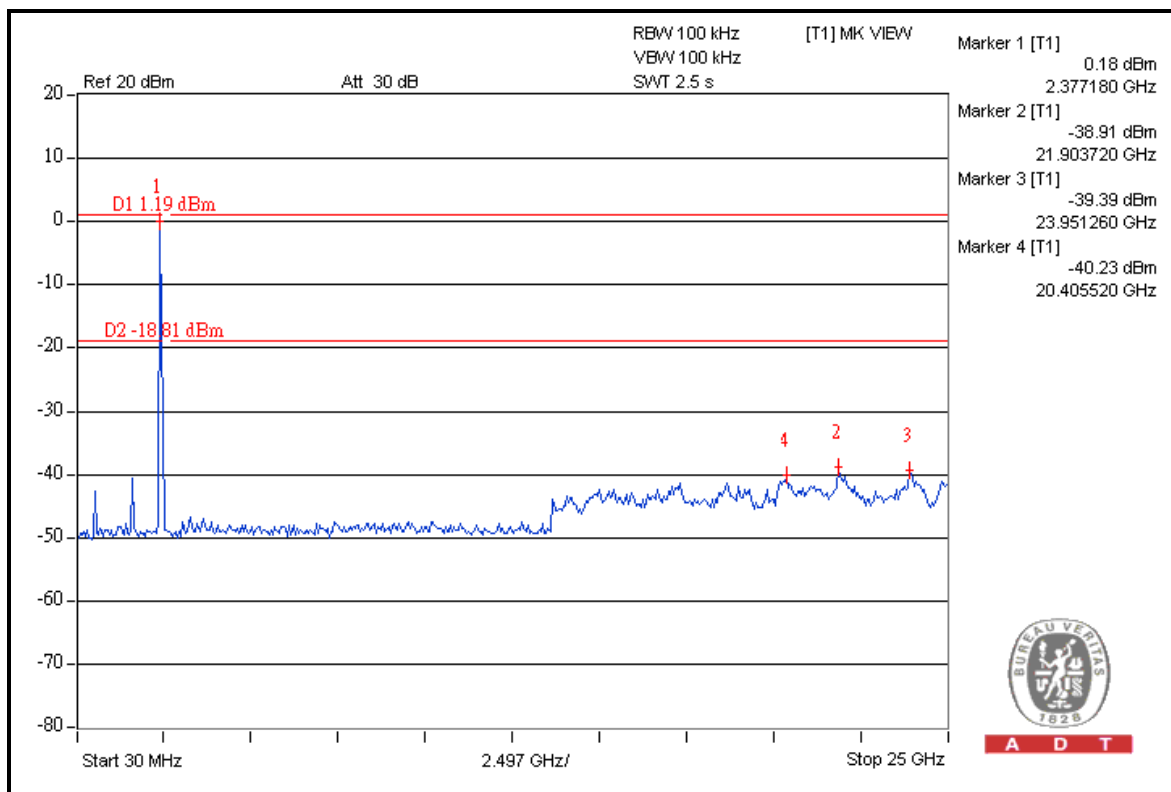
A D T

CHAIN 1



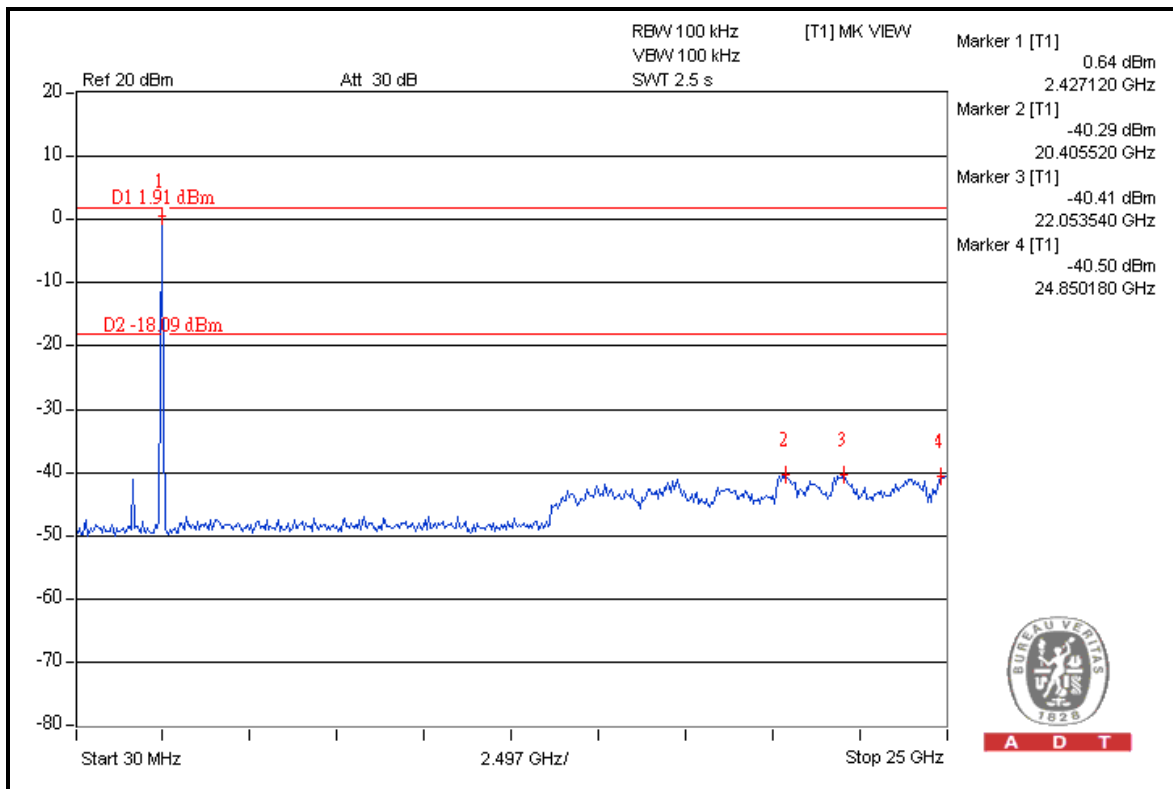
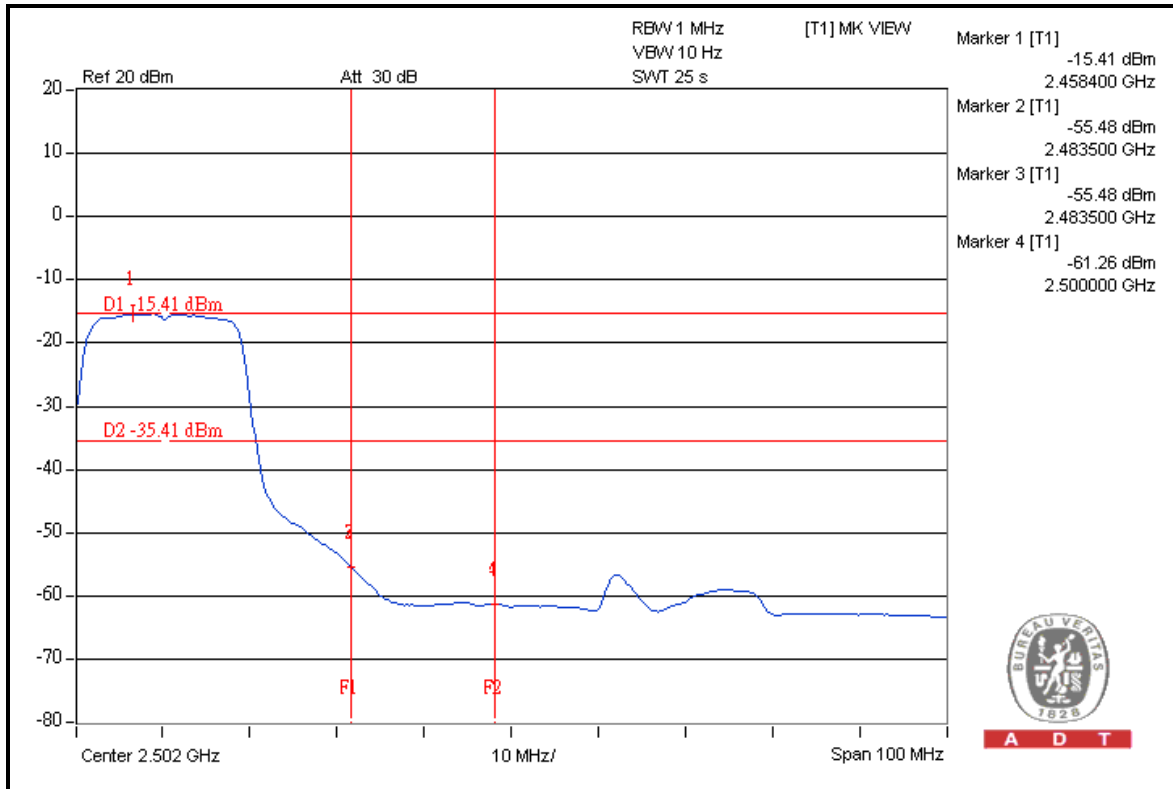


A D T





A D T





A D T

802.11n (40MHz)

TEST MODE A:

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)	105.2	32.8	72.4	74.00
2422.00 (AV)	80.6	42.9	37.7	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)	103.3	36.4	66.9	74.00
2452.00 (AV)	78.5	41.1	37.4	54.00

NOTE:

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



A D T

TEST MODE B:

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)	102.3	32.6	69.7	74.00
2422.00 (AV)	74.5	25.0	49.5	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)	100.1	36.8	63.3	74.00
2452.00 (AV)	74.5	27.2	47.3	54.00

NOTE:

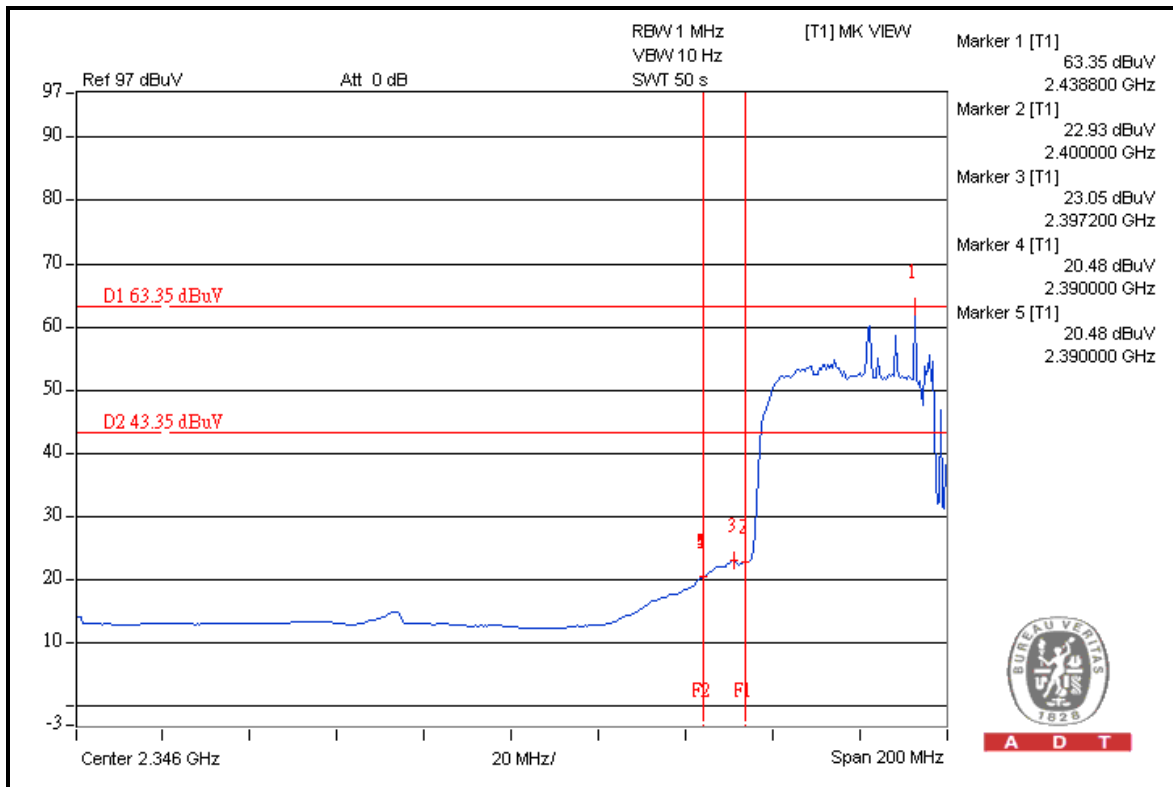
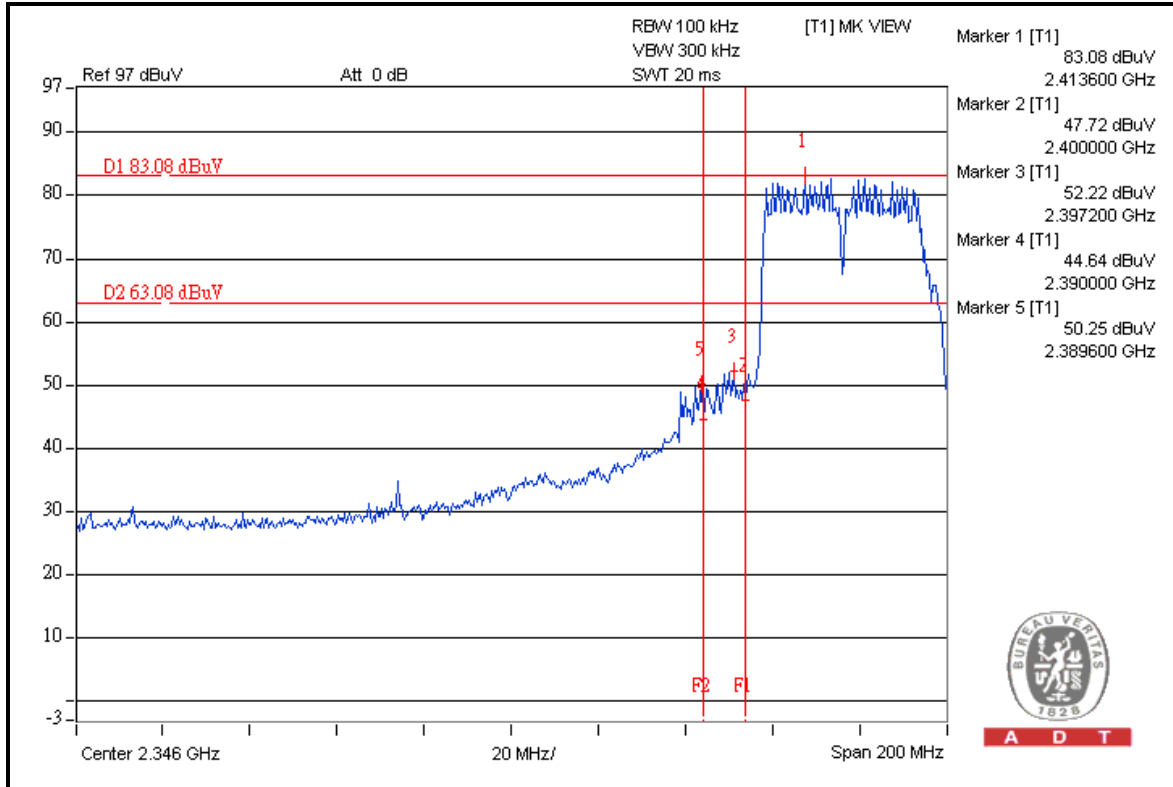
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T

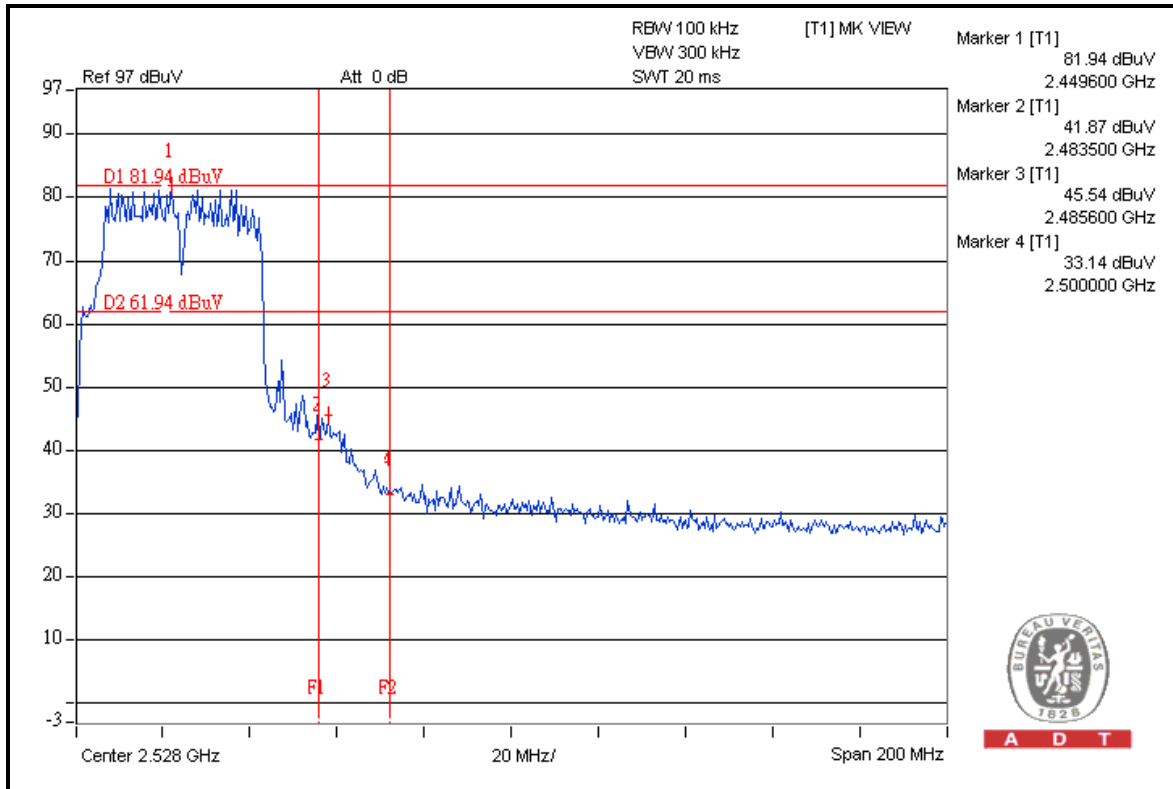
FOR RADIATED MEASURED (TWO CHAINS ON)

TEST MODE A:

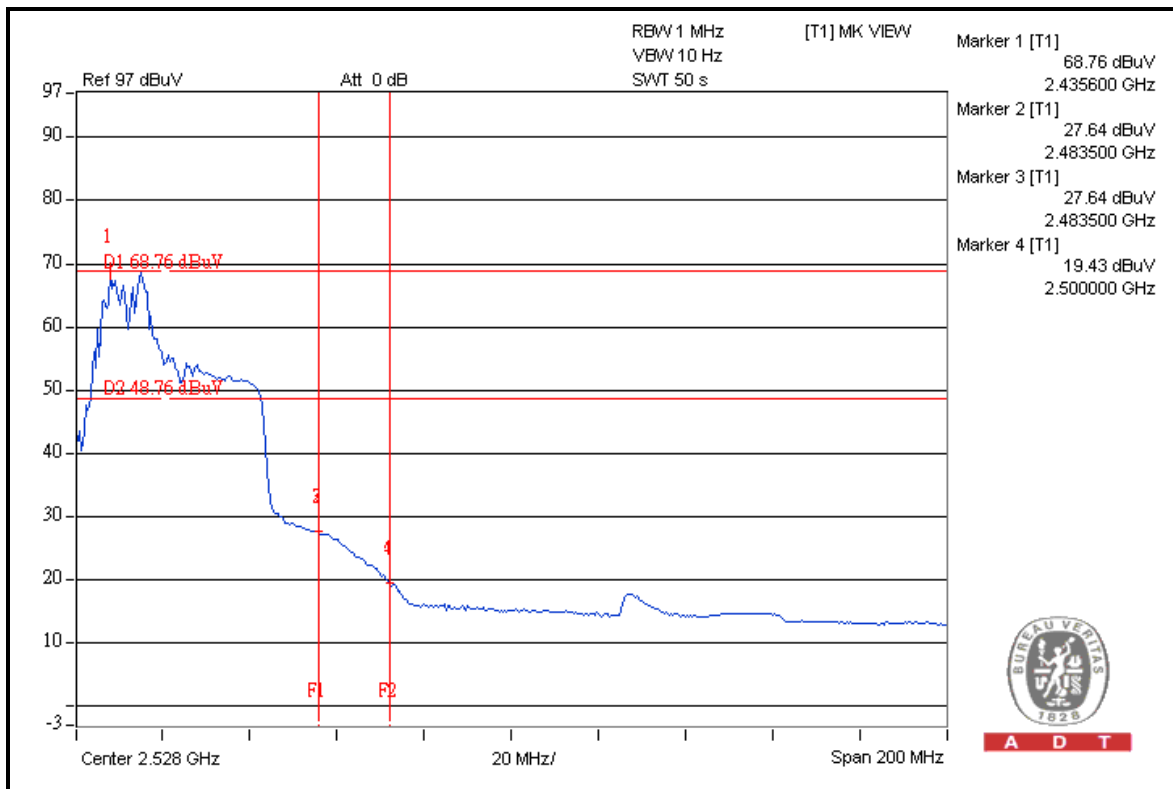




A D T



A D T

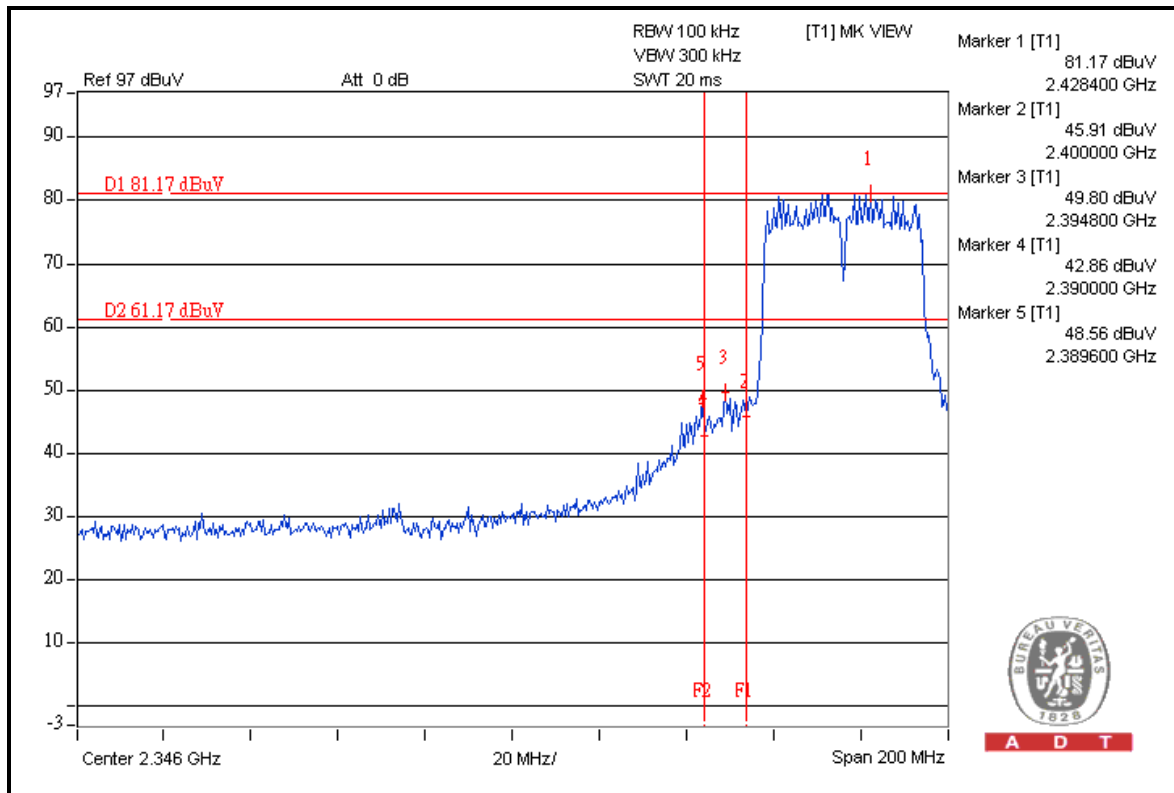


A D T

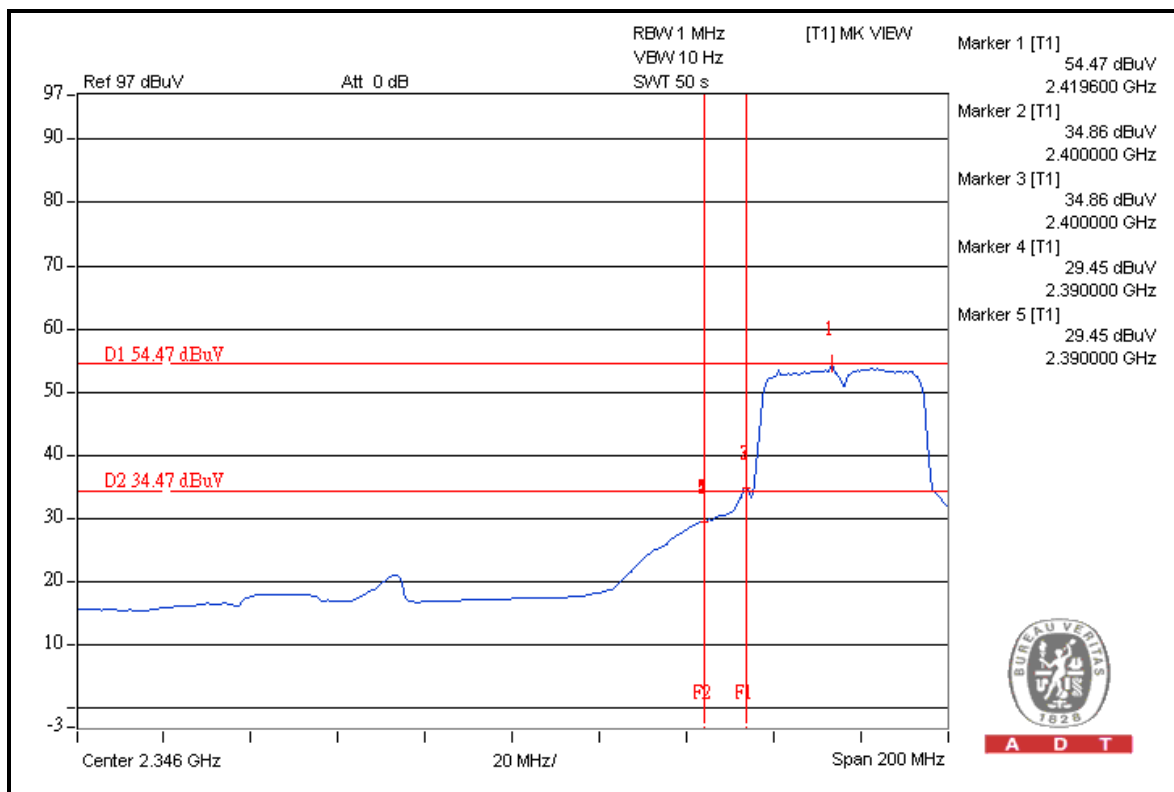


A D T

TEST MODE B:



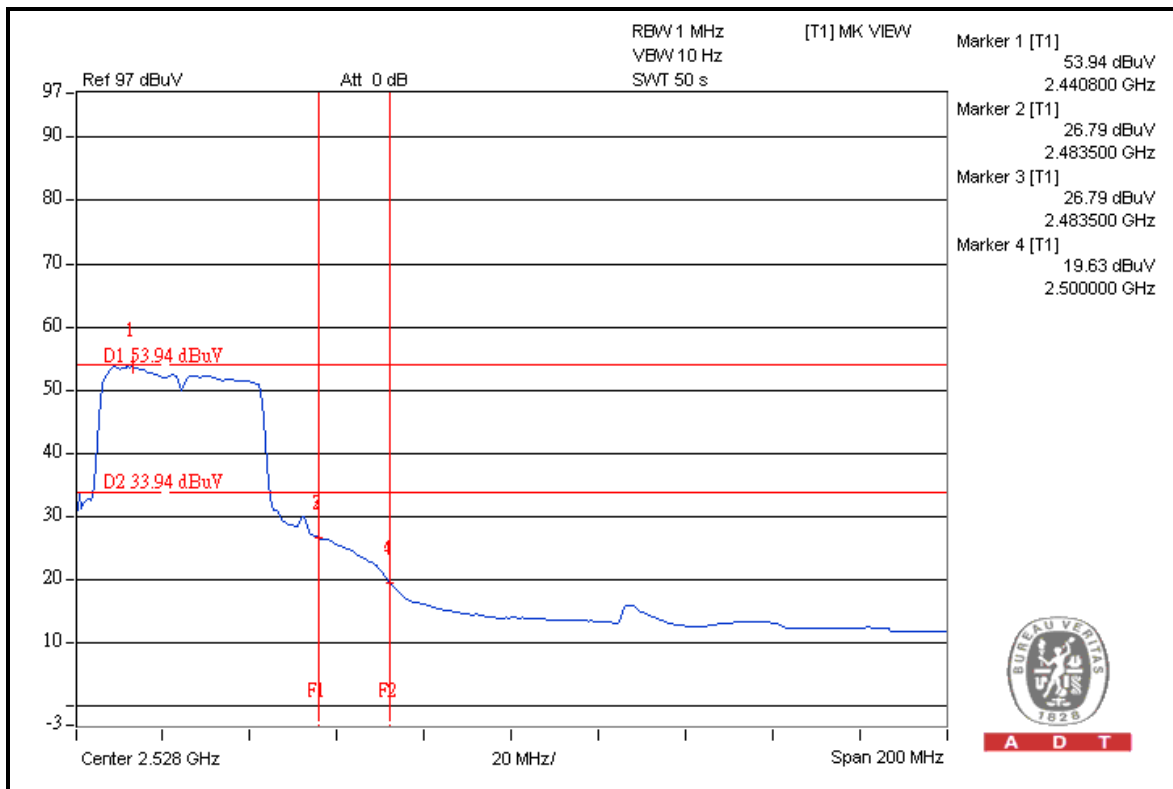
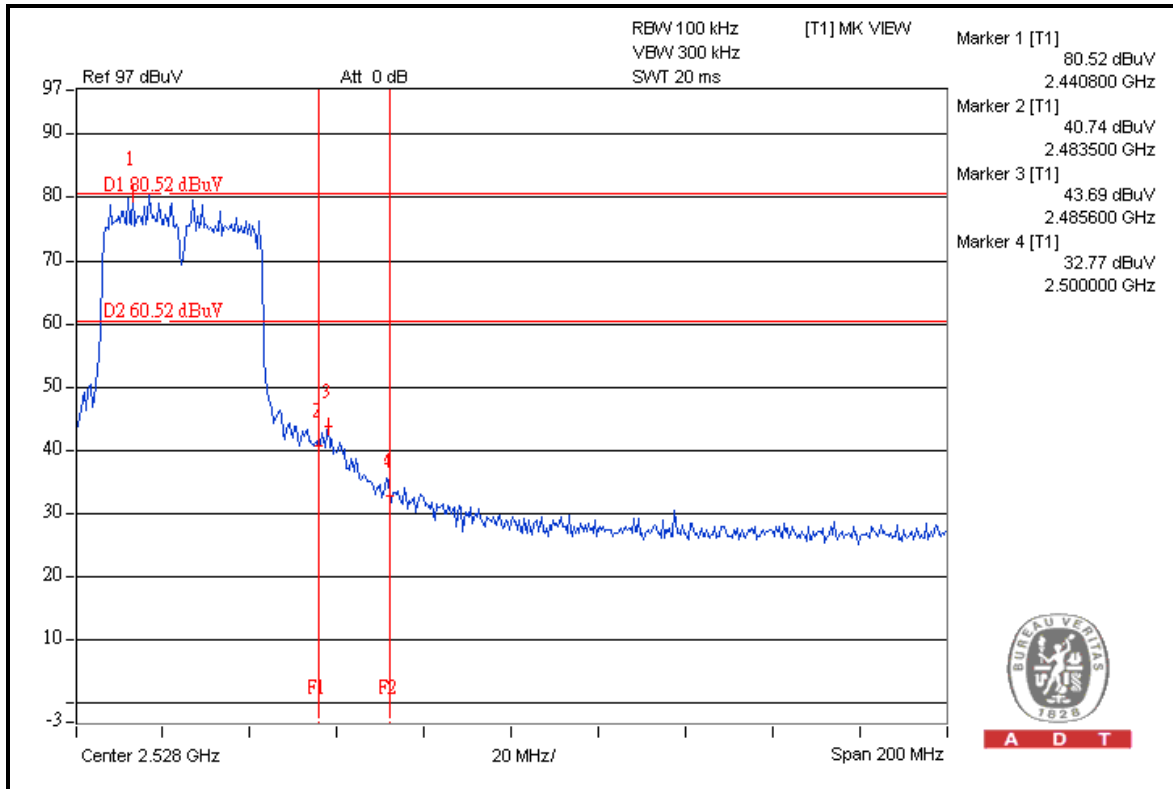
A D T



A D T



A D T

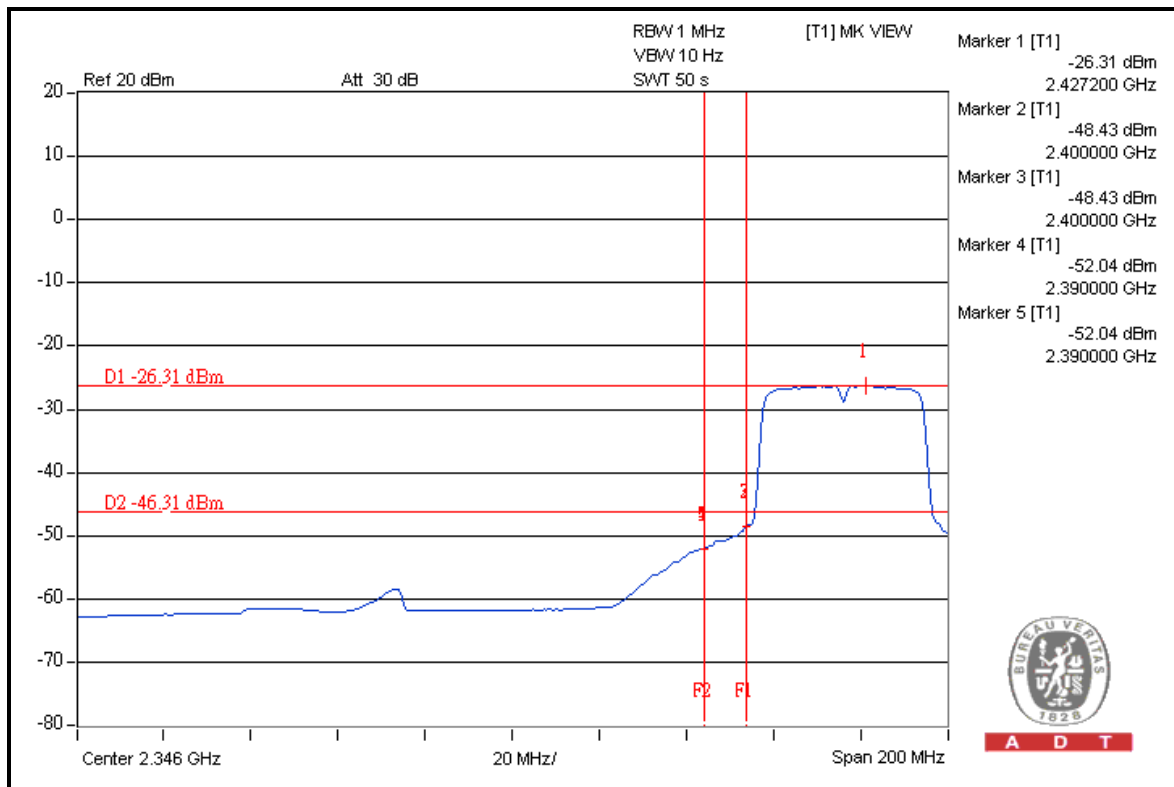
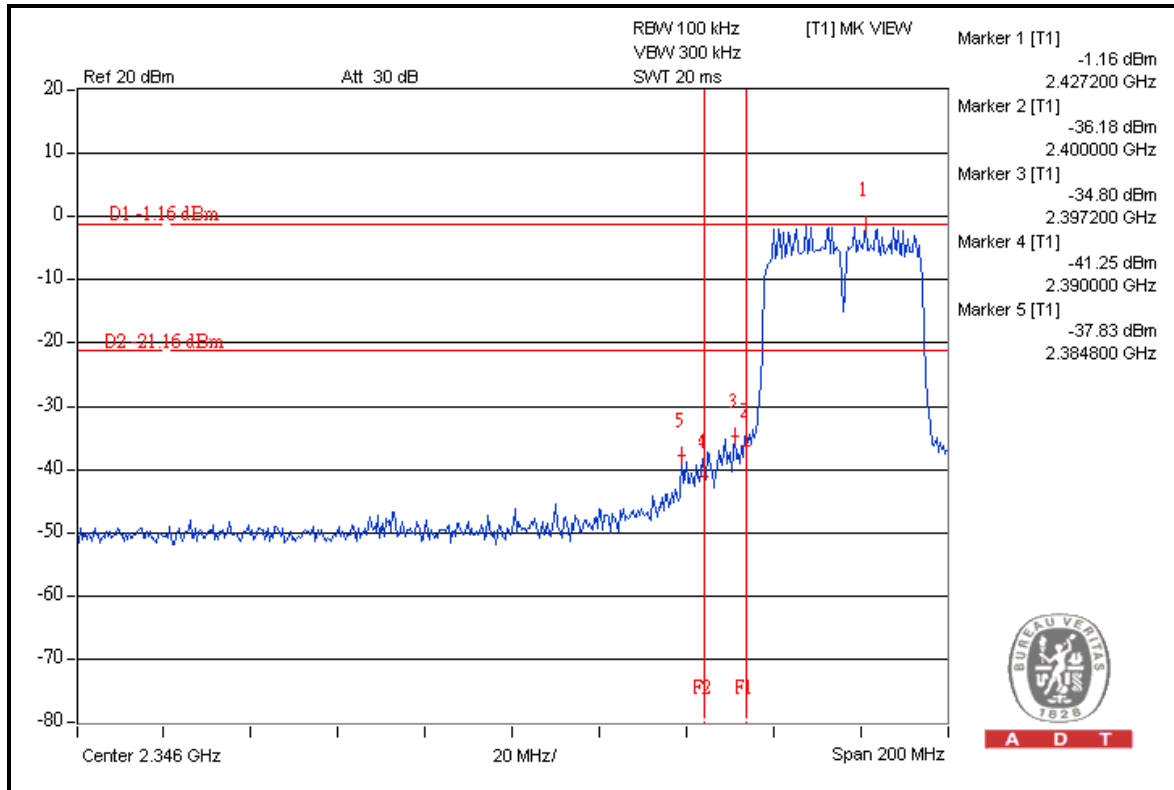




A D T

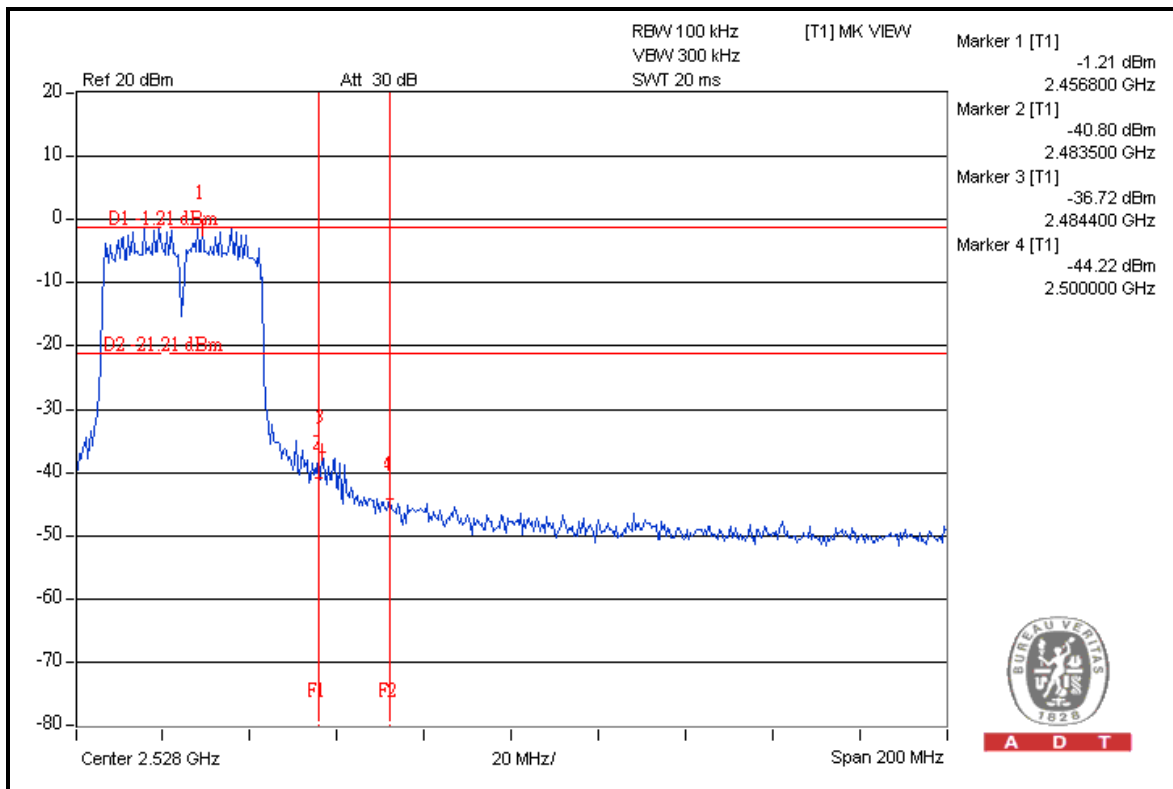
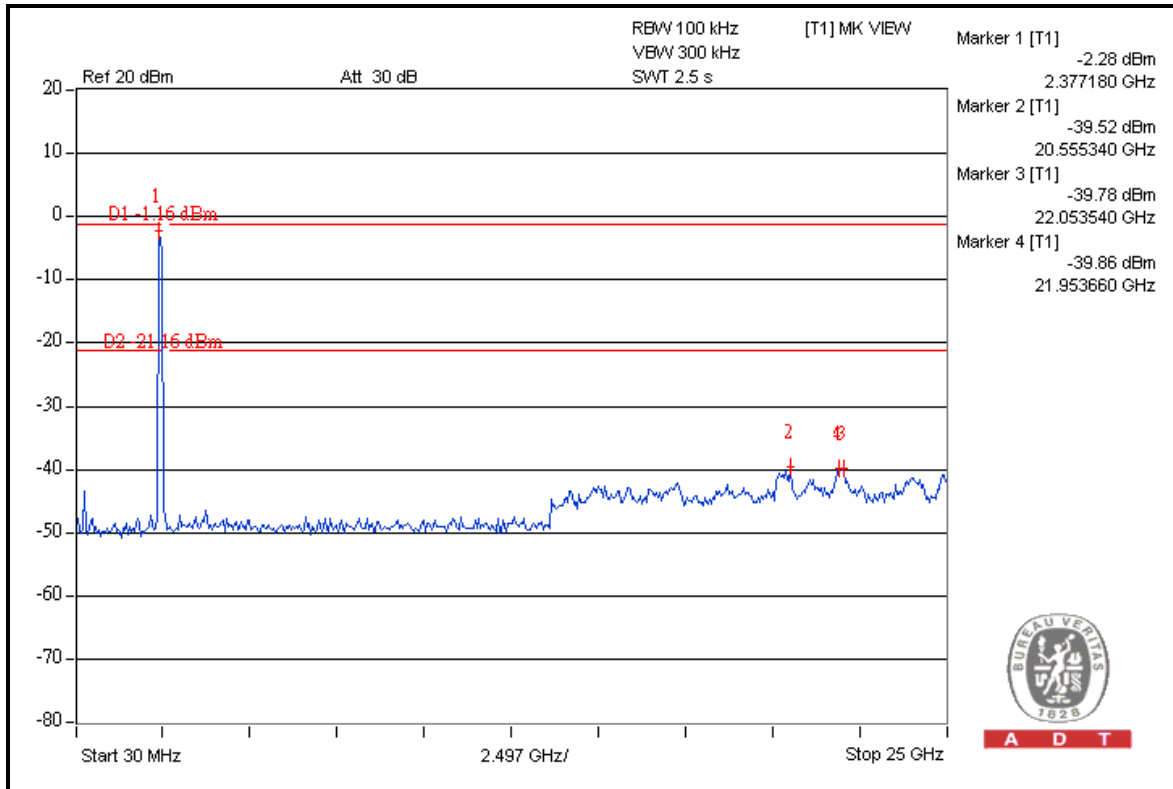
FOR CONDUCTED MEASURED

TEST MODE A: CHAIN 0



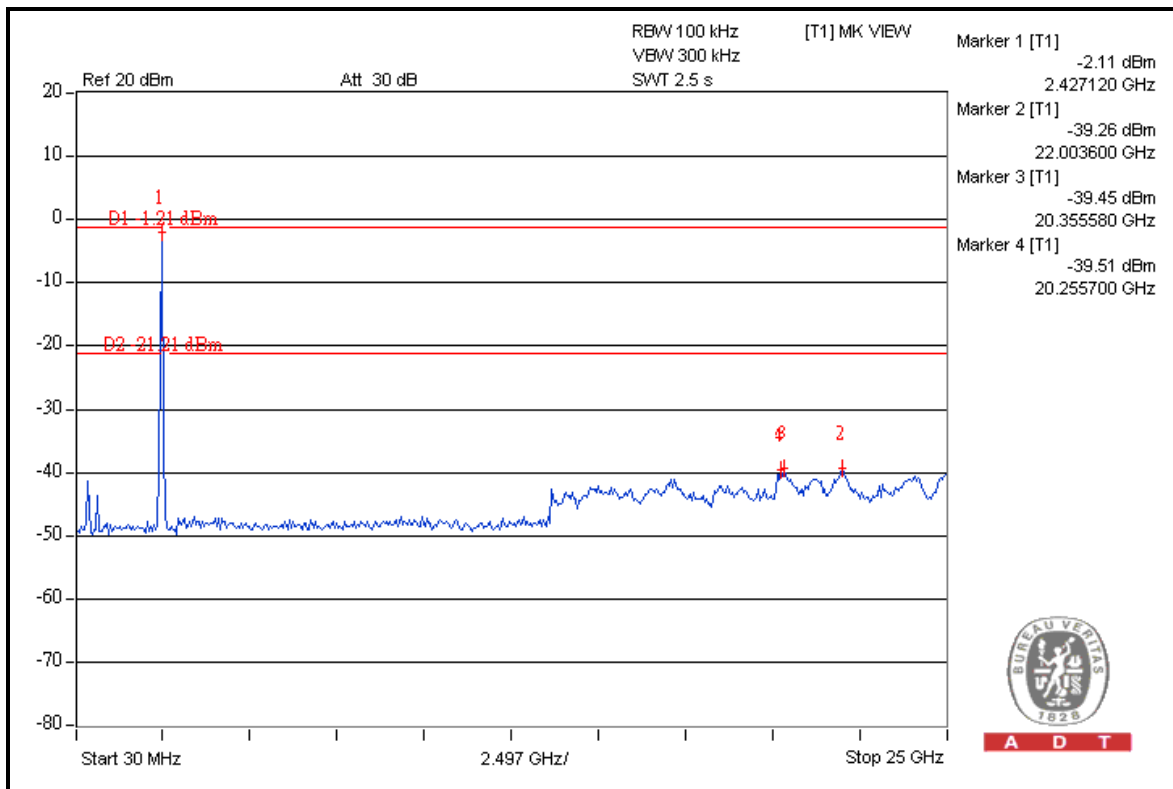
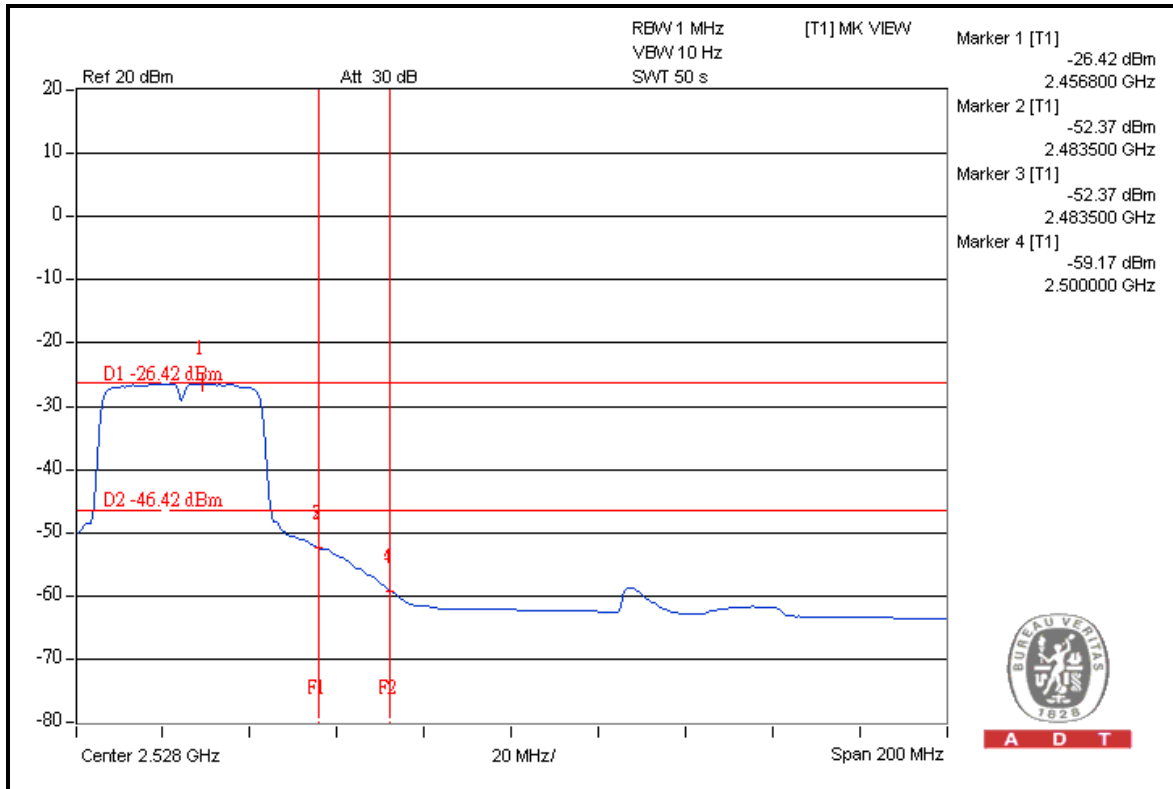


A D T





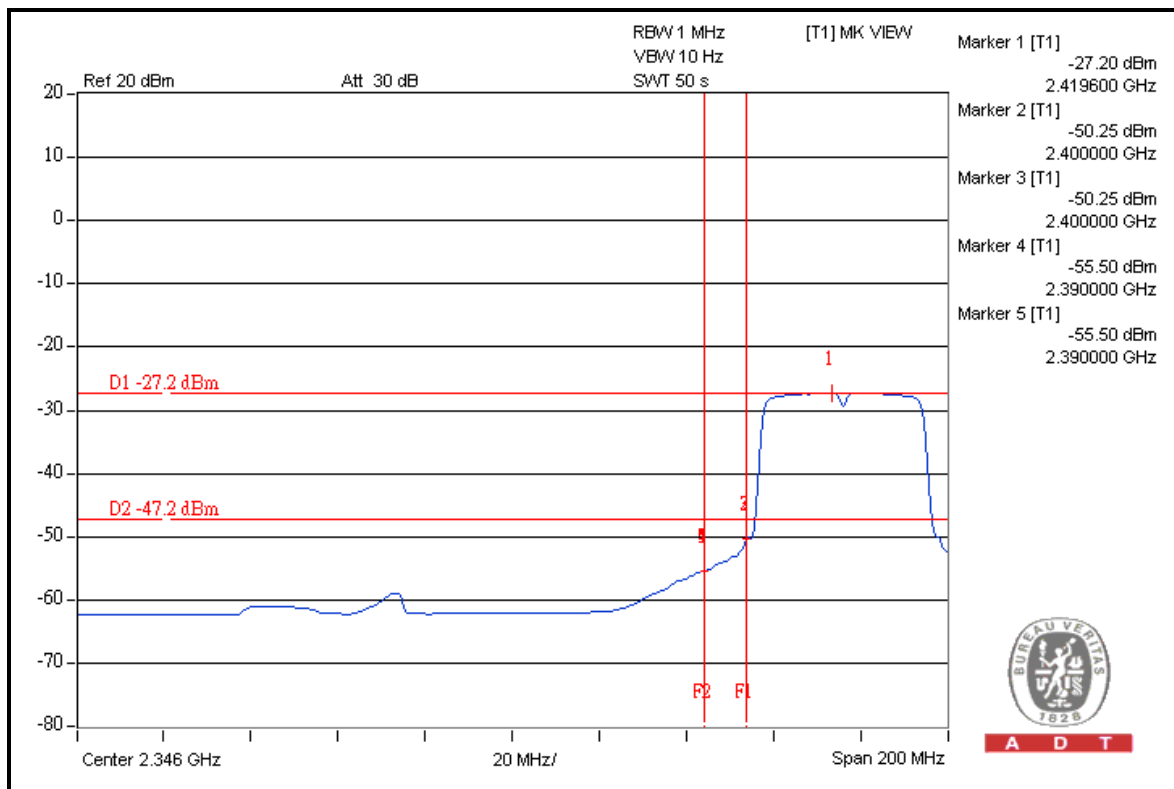
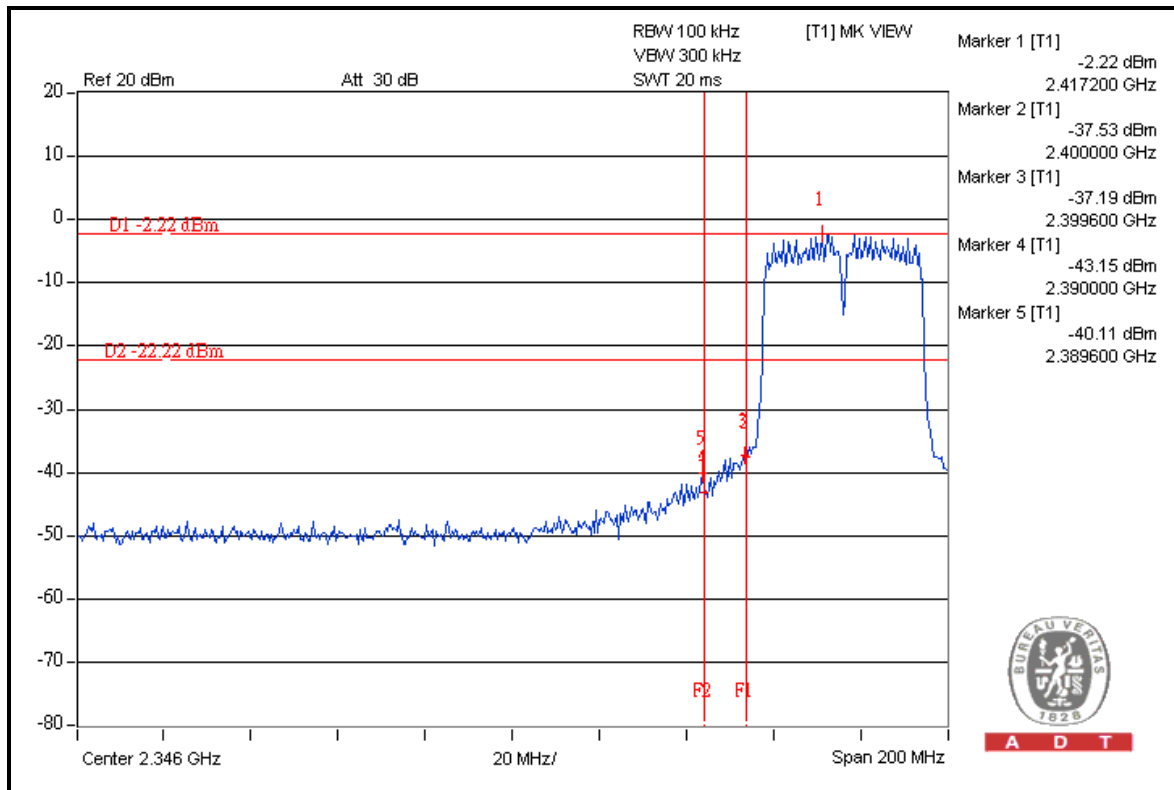
A D T





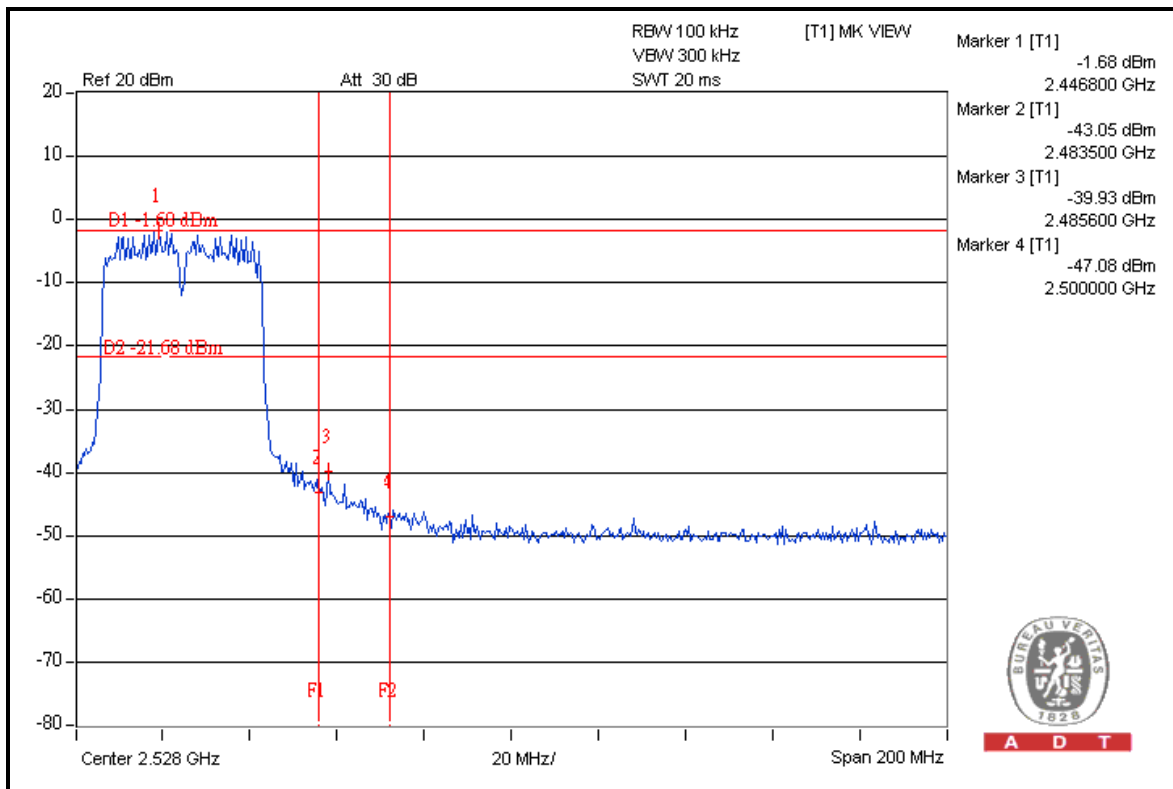
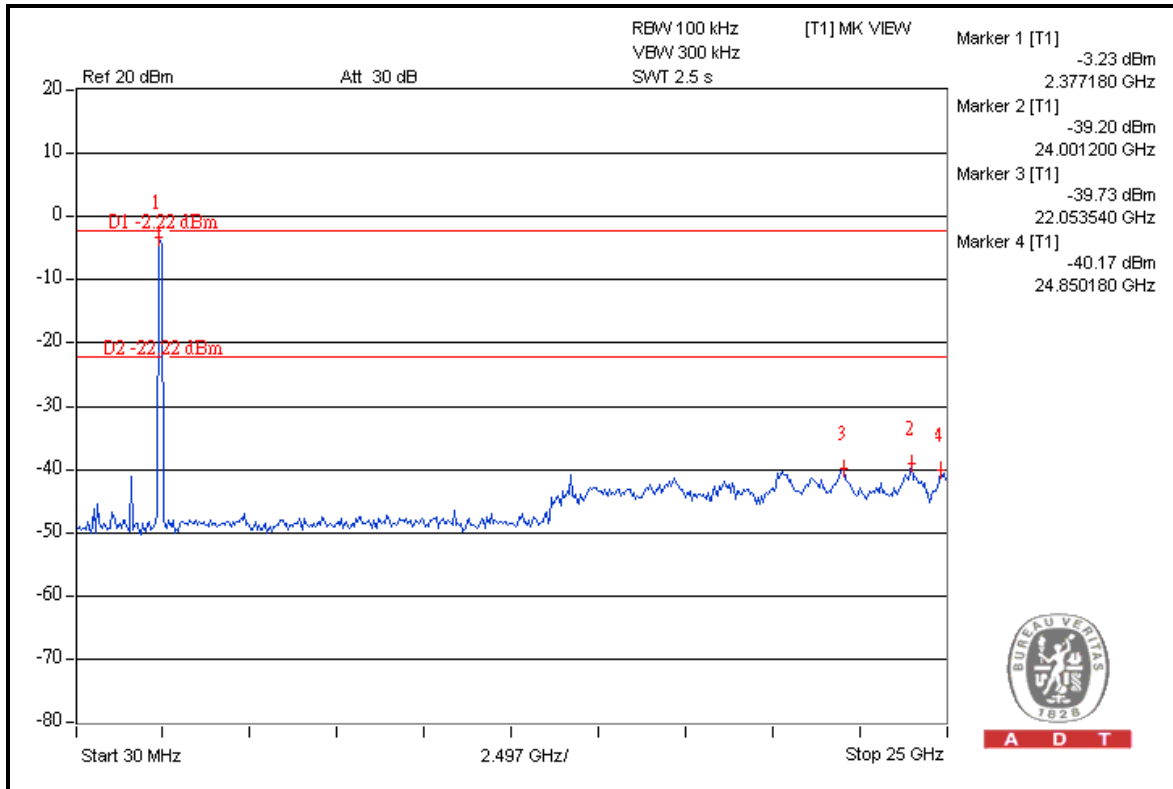
A D T

CHAIN 1



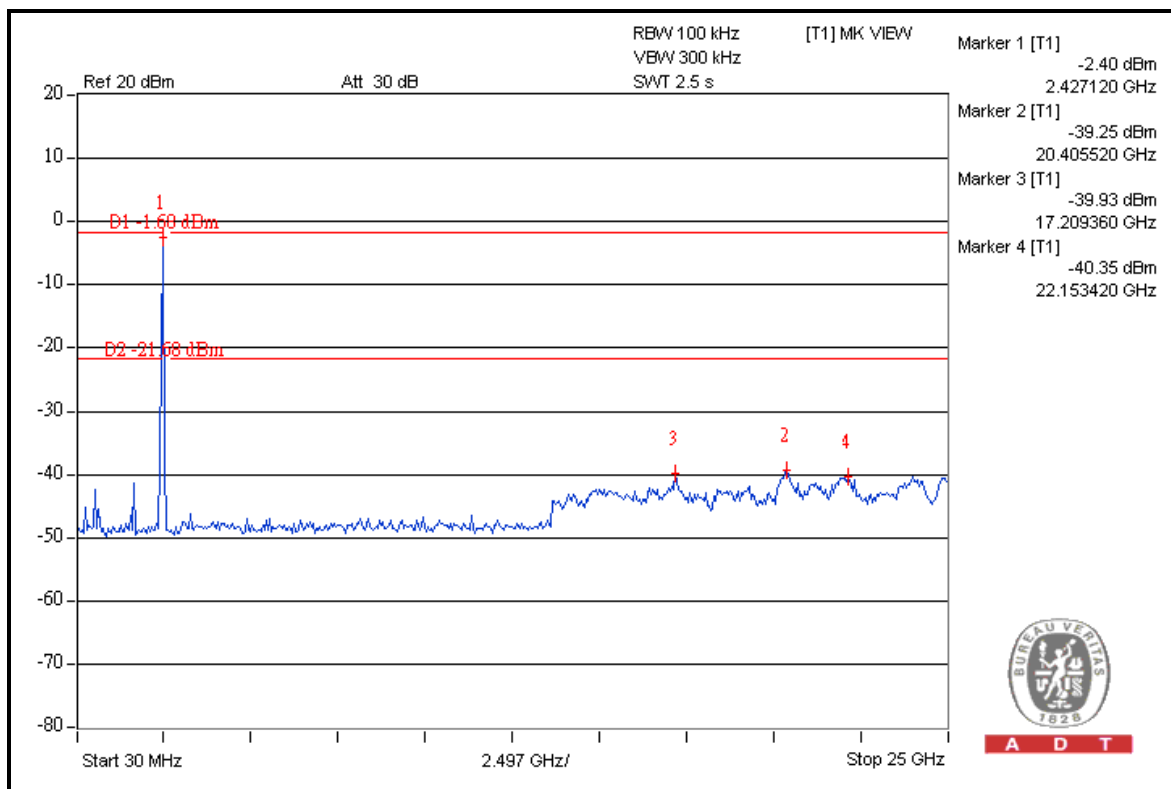
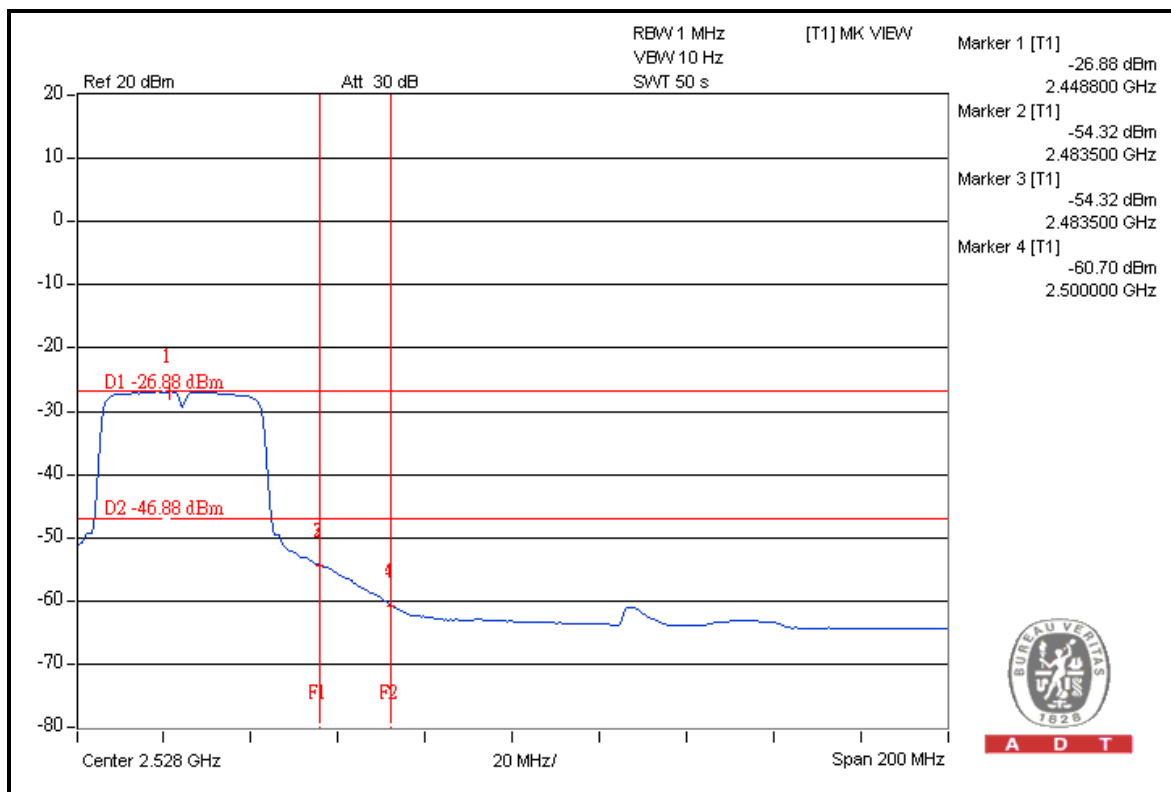


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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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 Telecom 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.



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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---