



A D T

FCC TEST REPORT

REPORT NO.: RF120810D01A

MODEL NO.: RTL8188CTV

FCC ID: RK9-RTL8188CTV

RECEIVED: Mar. 21, 2013

TESTED: Mar. 27 ~ 28, 2013

ISSUED: Apr. 18, 2013

APPLICANT: CastleNet Technology Inc.

ADDRESS: No.64, Chung-Shan Rd. Tu-Cheng District, New Taipei City, Taiwan 236

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

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.



A D T

TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1. CERTIFICATION.....	5
2. SUMMARY OF TEST RESULTS	6
2.1 MEASUREMENT UNCERTAINTY	6
3. GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES	9
3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL.....	10
3.3 DESCRIPTION OF SUPPORT UNITS	12
3.3.1 CONFIGURATION OF SYSTEM UNDER TEST.....	12
3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS.....	13
4. TEST TYPES AND RESULTS	14
4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT	14
4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	14
4.1.2 TEST INSTRUMENTS.....	15
4.1.3 TEST PROCEDURES	16
4.1.4 DEVIATION FROM TEST STANDARD.....	16
4.1.5 TEST SETUP.....	17
4.1.6 EUT OPERATING CONDITIONS	17
4.1.7 TEST RESULTS	18
4.2 CONDUCTED EMISSION MEASUREMENT.....	44
4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	44
4.2.2 TEST INSTRUMENTS.....	44
4.2.3 TEST PROCEDURES	45
4.2.4 DEVIATION FROM TEST STANDARD.....	45
4.2.5 TEST SETUP.....	46
4.2.6 EUT OPERATING CONDITIONS	46
4.2.7 TEST RESULTS	47
4.3 6DB BANDWIDTH MEASUREMENT	51
4.3.1 LIMITS OF 6DB BANDWIDTH MEASUREMENT	51
4.3.2 TEST SETUP.....	51
4.3.3 TEST INSTRUMENTS.....	51
4.3.4 TEST PROCEDURE.....	51
4.3.5 DEVIATION FROM TEST STANDARD.....	51
4.3.6 EUT OPERATING CONDITIONS	51
4.3.7 TEST RESULTS	52
4.4 CONDUCTED OUTPUT POWER.....	53
4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT.....	53



A D T

4.4.2	TEST SETUP	53
4.4.3	TEST INSTRUMENTS	53
4.4.4	TEST PROCEDURES	53
4.4.5	DEVIATION FROM TEST STANDARD	53
4.4.6	EUT OPERATING CONDITIONS	53
4.4.7	TEST RESULTS	54
4.5	POWER SPECTRAL DENSITY MEASUREMENT	56
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	56
4.5.2	TEST SETUP	56
4.5.3	TEST INSTRUMENTS	56
4.5.4	TEST PROCEDURE	56
4.5.5	DEVIATION FROM TEST STANDARD	56
4.5.6	EUT OPERATING CONDITION	56
4.5.7	TEST RESULTS	57
4.6	CONDUCTED OUT OF BAND EMISSION MEASUREMENT	58
4.6.1	LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT	58
4.6.2	TEST SETUP	58
4.6.3	TEST INSTRUMENTS	58
4.6.4	TEST PROCEDURE	58
4.6.5	DEVIATION FROM TEST STANDARD	59
4.6.6	EUT OPERATING CONDITION	59
4.6.7	TEST RESULTS	59
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION	64
6.	INFORMATION ON THE TESTING LABORATORIES	65
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	66



A D T

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120810D01A	Original release	Apr. 18, 2013



A D T

1. CERTIFICATION

PRODUCT: 802.11 b/g/n WLAN 1T1R Card
MODEL NO.: RTL8188CTV
BRAND: CastleNet
APPLICANT: CastleNet Technology Inc.
TESTED: Mar. 27 ~ 28, 2013
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
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 : Annie Chang , **DATE:** Apr. 18, 2013
(Annie Chang / Supervisor)

APPROVED BY : Ken Liu , **DATE:** Apr. 18, 2013
(Ken Liu / Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -5.07dB at 0.34534MHz.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.9dB at 960.00MHz.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is IPEX Reverse not a standard connector.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.41 dB
Radiated emissions	30MHz ~ 1GHz	4.00 dB
	Above 1GHz	3.36 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	802.11 b/g/n WLAN 1T1R Card
MODEL NO.	RTL8188CTV
POWER SUPPLY	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 150.0Mbps
OPERATING FREQUENCY	2412 ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
OUTPUT POWER	218.8mW
ANTENNA TYPE	Refer to Note below
ANTENNA CONNECTOR	Refer to Note below
DATA CABLE	N/A
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	N/A

Note:

- The EUT is a 802.11 b/g/n WLAN 1T1R Card.
- This report is a supplementary report of the original one (BV CPS report no.: RE120810D01) issued on Aug. 22, 2012 to verify test result for addition of antennas.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

Modulation Mode	Tx Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

- This report is prepared for FCC class II permissive change (hardware change).

5. The following antennas were applied to the EUT (additional as shaded area):

Item	Brand name	Model name	Type	Connector	Gain (dBi)	Remark
1	CastleNet	--	Printed	N/A	2.87	Original
2	INPAQ	WA-P-LA-01-060	DIPOLE	IPEX	3.42	Additional
3	WHA YU	SSR-02504	DIPOLE	IPEX	2.0	
4	KINSUN	6602113051-230	DIPOLE	IPEX	2.24	
5	MAG. LAYERS	EDA-6413-2G4C1-A1	DIPOLE	IPEX	2.0	
6	ARISTOTLE	RFA-02-P118-70-100	DIPOLE	IPEX	3.80	
7	MAG. LAYERS	EDA-8709-2G4R2-A4 0-RM	DIPOLE	IPEX	2.0	
8	FVC	M730	PIFA	IPEX	2.25	
9	FVC	M740S	PIFA	IPEX	2.08	
10	WHA YU	C680-520306-A	PIFA	IPEX	1.75	
11	SPEED	DLI8500	PIFA	IPEX	1.78	

For the test, the following antennas were selected as representative models and therefore their test data were recorded in this report:

Item	Brand name	Model name	Type	Connector	Gain (dBi)	Remark
6	ARISTOTLE	RFA-02-P118-70-100	DIPOLE	IPEX	3.80	Additional
8	FVC	M730	PIFA	IPEX	2.25	

6. The above EUT information was 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
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO					DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	OB	
A	√	√	√	√	√	For Dipole antenna
B	√	√	√	-	-	For PIFA antenna

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement
OB: Conducted Out-Band Emission Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis.
The worst case was found when positioned on Y-plane for Mode A.
The worst case was found when positioned on Z-plane for Mode B.

RADIATED EMISSION TEST (ABOVE 1GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A & B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.0

RADIATED EMISSION TEST (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A & B	802.11b	1 to 11	11	DSSS	DBPSK	1.0

POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A & B	802.11b	1 to 11	11	DSSS	DBPSK	1.0

CONDUCTED OUT-BAND EMISSION MEASUREMENT:

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

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
	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.0

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
	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.0

TEST CONDITION:

APPLICABLE TO	EUT CONFIGURE MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	A & B	20deg. C, 75%RH	120Vac, 60Hz	Saxon Lee
RE<1G	A & B	20deg. C, 75%RH	120Vac, 60Hz	Saxon Lee
PLC	A & B	21deg. C, 74%RH	120Vac, 60Hz	Aaron You
OB	A	20deg. C, 74%RH	120Vac, 60Hz	Chad Lee
APCM	A	20deg. C, 74%RH	120Vac, 60Hz	Chad Lee

3.3 DESCRIPTION OF SUPPORT UNITS

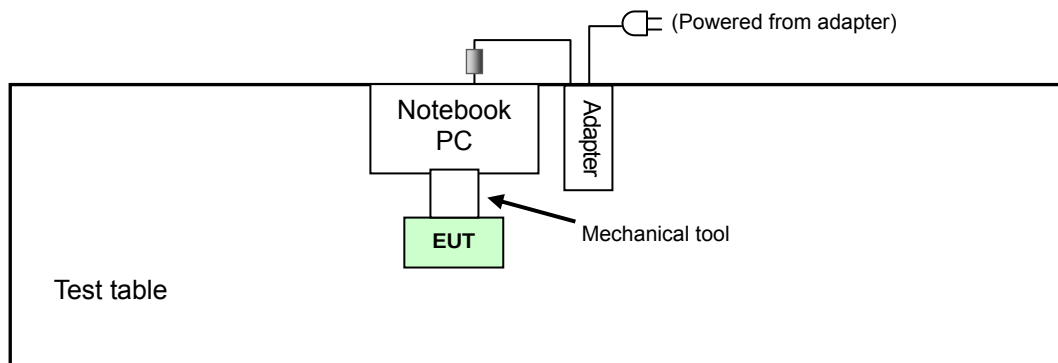
EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook PC	DELL	E6530	9331GV1	FCC DoC Approved
2	Mechanical tool	N/A	N/A	N/A	N/A

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

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

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST





A D T

3.4 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)

558074 D01 DTS Meas Guidance v02

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.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2013	Feb. 25, 2014
HP Preamplifier	8449B	3008A01201	Feb. 26, 2013	Feb. 25, 2014
Agilent Spectrum Analyzer	E4446A	MY46180403	Jun. 13, 2012	Jun. 12, 2013
ROHDE & SCHWARZ Test Receiver	ESCS 30	838251/021	Oct. 11, 2012	Oct. 10, 2013
Schwarzbeck Antenna	VULB 9168	137	Mar. 20, 2013	Mar. 19, 2014
Schwarzbeck Antenna	VHBA 9123	480	May 22, 2012	May 21, 2013
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. 19, 2012	Aug. 18, 2013
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	May 18, 2012	May 17, 2013
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	May 09, 2012	May 08, 2013
Anritsu Power Sensor	MA2411B	0738404	Apr. 28, 2012	Apr. 27, 2013
Anritsu Power Meter	ML2495A	0842014	Apr. 28, 2012	Apr. 27, 2013

NOTE: 1. The calibration interval of the above test instruments is 12/24 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 height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to 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.

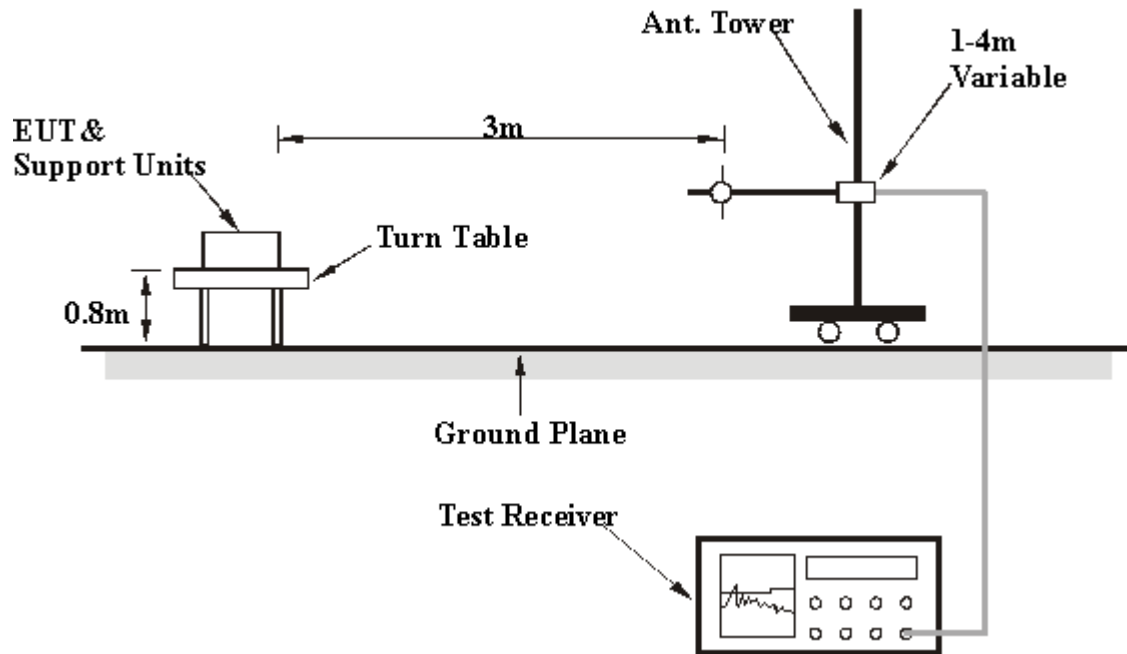
NOTE:

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 1kHz 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

- Connected the EUT to a notebook placed on a testing table.
- The notebook ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.7 TEST RESULTS

ABOVE 1GHz DATA

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	57.9 PK	74.0	-16.1	1.00 H	116	25.67	32.25
2	2390.00	44.6 AV	54.0	-9.4	1.00 H	116	12.38	32.25
3	*2412.00	90.8 PK			1.00 H	116	58.45	32.35
4	*2412.00	87.0 AV			1.00 H	116	54.64	32.35
5	4824.00	43.7 PK	74.0	-30.3	1.15 H	151	4.31	39.43
6	4824.00	32.6 AV	54.0	-21.4	1.15 H	151	-6.80	39.43
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	58.3 PK	74.0	-15.7	1.00 V	81	26.01	32.25
2	2390.00	45.6 AV	54.0	-8.4	1.00 V	81	13.34	32.25
3	*2412.00	101.9 PK			1.00 V	81	69.51	32.35
4	*2412.00	97.5 AV			1.00 V	81	65.10	32.35
5	4824.00	45.8 PK	74.0	-28.2	1.11 V	185	6.41	39.43
6	4824.00	34.9 AV	54.0	-19.1	1.11 V	185	-4.55	39.43

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	92.7 PK			1.00 H	90	60.25	32.46
2	*2437.00	88.8 AV			1.00 H	90	56.36	32.46
3	4874.00	43.4 PK	74.0	-30.6	1.13 H	150	3.87	39.55
4	4874.00	32.7 AV	54.0	-21.3	1.13 H	150	-6.86	39.55
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	101.0 PK			1.00 V	80	68.56	32.46
2	*2437.00	97.3 AV			1.00 V	80	64.86	32.46
3	4874.00	44.1 PK	74.0	-29.9	1.18 V	154	4.53	39.55
4	4874.00	33.0 AV	54.0	-21.0	1.18 V	154	-6.52	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	90.8 PK			1.00 H	90	58.19	32.58
2	*2462.00	86.6 AV			1.00 H	90	54.05	32.58
3	2483.50	58.1 PK	74.0	-15.9	1.00 H	90	25.45	32.67
4	2483.50	44.9 AV	54.0	-9.1	1.00 H	90	12.26	32.67
5	4924.00	43.7 PK	74.0	-30.3	1.14 H	146	4.11	39.63
6	4924.00	32.6 AV	54.0	-21.4	1.14 H	146	-7.03	39.63
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	*2462.00	102.2 PK			1.00 V	82	69.62	32.58
2	*2462.00	97.9 AV			1.00 V	82	65.27	32.58
3	2483.50	58.9 PK	74.0	-15.2	1.00 V	82	26.18	32.67
4	2483.50	45.9 AV	54.0	-8.1	1.00 V	82	13.24	32.67
5	4924.00	44.2 PK	74.0	-29.8	1.12 V	173	4.60	39.63
6	4924.00	33.0 AV	54.0	-21.0	1.12 V	173	-6.61	39.63

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	58.1 PK	74.0	-15.9	1.00 H	117	25.84	32.25
2	2390.00	45.1 AV	54.0	-8.9	1.00 H	117	12.89	32.25
3	*2412.00	90.6 PK			1.00 H	117	58.23	32.35
4	*2412.00	80.0 AV			1.00 H	117	47.67	32.35
5	4824.00	42.6 PK	74.0	-31.4	1.12 H	147	3.14	39.43
6	4824.00	30.7 AV	54.0	-23.3	1.12 H	147	-8.73	39.43
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.00 V	82	27.03	32.25
2	2390.00	45.9 AV	54.0	-8.1	1.00 V	82	13.69	32.25
3	*2412.00	101.5 PK			1.00 V	82	69.12	32.35
4	*2412.00	91.6 AV			1.00 V	82	59.25	32.35
5	4824.00	43.5 PK	74.0	-30.5	1.09 V	178	4.05	39.43
6	4824.00	32.4 AV	54.0	-21.6	1.09 V	178	-7.07	39.43

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	91.7 PK			1.00 H	91	59.19	32.46
2	*2437.00	81.3 AV			1.00 H	91	48.88	32.46
3	4874.00	44.2 PK	74.0	-29.8	1.10 H	151	4.65	39.55
4	4874.00	31.0 AV	54.0	-23.1	1.10 H	151	-8.60	39.55
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	100.4 PK			1.00 V	96	67.95	32.46
2	*2437.00	90.2 AV			1.00 V	96	57.75	32.46
3	4874.00	43.0 PK	74.0	-31.0	1.16 V	144	3.45	39.55
4	4874.00	33.5 AV	54.0	-20.5	1.16 V	144	-6.04	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	90.6 PK			1.01 H	90	58.03	32.58
2	*2462.00	80.8 AV			1.01 H	90	48.25	32.58
3	2483.50	58.3 PK	74.0	-15.7	1.01 H	90	25.63	32.67
4	2483.50	44.8 AV	54.0	-9.2	1.01 H	90	12.16	32.67
5	4924.00	43.6 PK	74.0	-30.4	1.12 H	138	4.00	39.63
6	4924.00	32.3 AV	54.0	-21.7	1.12 H	138	-7.29	39.63
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	*2462.00	101.3 PK			1.00 V	80	68.71	32.58
2	*2462.00	91.6 AV			1.00 V	80	59.04	32.58
3	2483.50	59.8 PK	74.0	-14.2	1.00 V	80	27.11	32.67
4	2483.50	46.1 AV	54.0	-7.9	1.00 V	80	13.42	32.67
5	4924.00	44.2 PK	74.0	-29.8	1.09 V	171	4.59	39.63
6	4924.00	33.4 AV	54.0	-20.7	1.09 V	171	-6.28	39.63

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	57.9 PK	74.0	-16.1	1.00 H	108	25.69	32.25
2	2390.00	44.7 AV	54.0	-9.3	1.00 H	108	12.44	32.25
3	*2412.00	91.0 PK			1.00 H	108	58.63	32.35
4	*2412.00	81.5 AV			1.00 H	108	49.12	32.35
5	4824.00	42.0 PK	74.0	-32.0	1.08 H	139	2.55	39.43
6	4824.00	31.6 AV	54.0	-22.4	1.08 H	139	-7.81	39.43
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.2 PK	74.0	-14.8	1.00 V	85	26.94	32.25
2	2390.00	45.5 AV	54.0	-8.5	1.00 V	85	13.21	32.25
3	*2412.00	100.2 PK			1.00 V	85	67.82	32.35
4	*2412.00	89.9 AV			1.00 V	85	57.55	32.35
5	4824.00	43.3 PK	74.0	-30.7	1.10 V	171	3.86	39.43
6	4824.00	32.2 AV	54.0	-21.8	1.10 V	171	-7.21	39.43

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	90.6 PK			1.00 H	92	58.12	32.46
2	*2437.00	79.4 AV			1.00 H	92	46.95	32.46
3	4874.00	43.2 PK	74.0	-30.8	1.10 H	133	3.69	39.55
4	4874.00	32.1 AV	54.0	-21.9	1.10 H	133	-7.44	39.55
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	100.2 PK			1.00 V	82	67.75	32.46
2	*2437.00	90.1 AV			1.00 V	82	57.62	32.46
3	4874.00	44.2 PK	74.0	-29.8	1.11 V	169	4.68	39.55
4	4874.00	33.2 AV	54.0	-20.8	1.11 V	169	-6.34	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	90.7 PK			1.00 H	92	58.12	32.58
2	*2462.00	80.5 AV			1.00 H	92	47.93	32.58
3	2483.50	58.3 PK	74.0	-15.7	1.00 H	92	25.61	32.67
4	2483.50	45.3 AV	54.0	-8.7	1.00 H	92	12.63	32.67
5	4924.00	43.5 PK	74.0	-30.5	1.13 H	152	3.89	39.63
6	4924.00	32.1 AV	54.0	-21.9	1.13 H	152	-7.51	39.63
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	*2462.00	101.3 PK			1.01 V	78	68.71	32.58
2	*2462.00	90.1 AV			1.01 V	78	57.47	32.58
3	2483.50	58.8 PK	74.0	-15.3	1.01 V	78	26.08	32.67
4	2483.50	45.8 AV	54.0	-8.2	1.01 V	78	13.09	32.67
5	4924.00	44.3 PK	74.0	-29.7	1.09 V	178	4.63	39.63
6	4924.00	33.4 AV	54.0	-20.6	1.09 V	178	-6.26	39.63

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	57.9 PK	74.0	-16.2	1.00 H	90	25.60	32.25
2	2390.00	44.7 AV	54.0	-9.3	1.00 H	90	12.48	32.25
3	*2422.00	90.9 PK			1.00 H	90	58.48	32.39
4	*2422.00	81.4 AV			1.00 H	90	49.03	32.39
5	4844.00	43.6 PK	74.0	-30.4	1.09 H	138	4.14	39.48
6	4844.00	32.2 AV	54.0	-21.8	1.09 H	138	-7.27	39.48
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.01 V	84	27.05	32.25
2	2390.00	46.1 AV	54.0	-7.9	1.01 V	84	13.81	32.25
3	*2422.00	99.9 PK			1.01 V	84	67.53	32.39
4	*2422.00	89.3 AV			1.01 V	84	56.90	32.39
5	4844.00	44.2 PK	74.0	-29.8	1.11 V	159	4.73	39.48
6	4844.00	33.3 AV	54.0	-20.7	1.11 V	159	-6.22	39.48

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	90.1 PK			1.00 H	91	57.59	32.46
2	*2437.00	80.3 AV			1.00 H	91	47.85	32.46
3	4874.00	41.5 PK	74.0	-32.5	1.06 H	147	1.96	39.55
4	4874.00	31.0 AV	54.0	-23.0	1.06 H	147	-8.57	39.55
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	99.7 PK			1.00 V	101	67.21	32.46
2	*2437.00	90.1 AV			1.00 V	101	57.67	32.46
3	4874.00	42.8 PK	74.0	-31.2	1.05 V	144	3.24	39.55
4	4874.00	31.9 AV	54.0	-22.1	1.05 V	144	-7.68	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	90.8 PK			1.01 H	92	58.24	32.53
2	*2452.00	81.4 AV			1.01 H	92	48.82	32.53
3	2483.50	59.5 PK	74.0	-14.5	1.01 H	92	26.85	32.67
4	2483.50	44.9 AV	54.0	-9.1	1.01 H	92	12.22	32.67
5	4904.00	41.9 PK	74.0	-32.1	1.09 H	133	2.25	39.62
6	4904.00	30.6 AV	54.0	-23.4	1.09 H	133	-8.99	39.62
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	100.7 PK			1.00 V	81	68.19	32.53
2	*2452.00	91.0 AV			1.00 V	81	58.47	32.53
3	2483.50	59.8 PK	74.0	-14.2	1.00 V	81	27.11	32.67
4	2483.50	46.3 AV	54.0	-7.7	1.00 V	81	13.66	32.67
5	4904.00	42.4 PK	74.0	-31.6	1.12 V	174	2.74	39.62
6	4904.00	31.7 AV	54.0	-22.3	1.12 V	174	-7.93	39.62

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	57.7 PK	74.0	-16.3	1.00 H	148	25.47	32.25
2	2390.00	44.5 AV	54.0	-9.5	1.00 H	148	12.21	32.25
3	*2412.00	99.7 PK			1.00 H	148	67.38	32.35
4	*2412.00	95.8 AV			1.00 H	148	63.45	32.35
5	4824.00	44.1 PK	74.0	-29.9	1.03 H	208	4.65	39.43
6	4824.00	31.4 AV	54.0	-22.6	1.03 H	208	-8.06	39.43
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	58.0 PK	74.0	-16.0	1.00 V	337	25.78	32.25
2	2390.00	44.9 AV	54.0	-9.1	1.00 V	337	12.65	32.25
3	*2412.00	103.8 PK			1.00 V	337	71.45	32.35
4	*2412.00	100.0 AV			1.00 V	337	67.66	32.35
5	4824.00	45.3 PK	74.0	-28.7	1.08 V	167	5.85	39.43
6	4824.00	32.9 AV	54.0	-21.1	1.08 V	167	-6.57	39.43

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	100.5 PK			1.01 H	146	68.07	32.46
2	*2437.00	96.8 AV			1.01 H	146	64.35	32.46
3	4874.00	45.3 PK	74.0	-28.7	1.03 H	211	5.77	39.55
4	4874.00	32.5 AV	54.0	-21.5	1.03 H	211	-7.02	39.55
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	103.4 PK			1.00 V	338	70.91	32.46
2	*2437.00	99.7 AV			1.00 V	338	67.26	32.46
3	4874.00	46.4 PK	74.0	-27.6	1.10 V	168	6.85	39.55
4	4874.00	33.8 AV	54.0	-20.3	1.10 V	168	-5.80	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	100.8 PK			1.00 H	271	68.23	32.58
2	*2462.00	97.1 AV			1.00 H	271	64.52	32.58
3	2483.50	58.3 PK	74.0	-15.7	1.00 H	271	25.61	32.67
4	2483.50	44.8 AV	54.0	-9.2	1.00 H	271	12.10	32.67
5	4924.00	45.2 PK	74.0	-28.8	1.00 H	196	5.59	39.63
6	4924.00	32.4 AV	54.0	-21.7	1.00 H	196	-7.28	39.63
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	*2462.00	103.4 PK			1.00 V	173	70.77	32.58
2	*2462.00	99.7 AV			1.00 V	173	67.16	32.58
3	2483.50	58.7 PK	74.0	-15.3	1.00 V	173	26.03	32.67
4	2483.50	45.0 AV	54.0	-9.0	1.00 V	173	12.32	32.67
5	4924.00	45.8 PK	74.0	-28.2	1.05 V	164	6.19	39.63
6	4924.00	33.1 AV	54.0	-21.0	1.05 V	164	-6.58	39.63

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	58.0 PK	74.0	-16.0	1.00 H	144	25.77	32.25
2	2390.00	44.8 AV	54.0	-9.2	1.00 H	144	12.52	32.25
3	*2412.00	100.0 PK			1.00 H	144	67.68	32.35
4	*2412.00	90.3 AV			1.00 H	144	57.96	32.35
5	4824.00	43.8 PK	74.0	-30.3	1.00 H	198	4.32	39.43
6	4824.00	30.4 AV	54.0	-23.6	1.00 H	198	-8.99	39.43
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.2 PK	74.0	-14.8	1.01 V	178	26.98	32.25
2	2390.00	45.3 AV	54.0	-8.7	1.01 V	178	13.06	32.25
3	*2412.00	103.0 PK			1.01 V	178	70.66	32.35
4	*2412.00	73.7 AV			1.01 V	178	41.34	32.35
5	4824.00	44.5 PK	74.0	-29.5	1.08 V	177	5.05	39.43
6	4824.00	33.2 AV	54.0	-20.8	1.08 V	177	-6.20	39.43

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	101.4 PK			1.00 H	272	68.90	32.46
2	*2437.00	91.9 AV			1.00 H	272	59.43	32.46
3	4874.00	45.6 PK	74.0	-28.4	1.02 H	206	6.07	39.55
4	4874.00	33.0 AV	54.0	-21.0	1.02 H	206	-6.59	39.55
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	103.6 PK			1.00 V	181	71.10	32.46
2	*2437.00	94.0 AV			1.00 V	181	61.56	32.46
3	4874.00	46.5 PK	74.0	-27.5	1.09 V	171	6.95	39.55
4	4874.00	34.1 AV	54.0	-19.9	1.09 V	171	-5.47	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	103.8 PK			1.01 H	269	71.17	32.58
2	*2462.00	93.9 AV			1.01 H	269	61.33	32.58
3	2483.50	59.8 PK	74.0	-14.2	1.01 H	269	27.11	32.67
4	2483.50	45.8 AV	54.0	-8.2	1.01 H	269	13.15	32.67
5	4924.00	46.4 PK	74.0	-27.7	1.10 H	163	6.72	39.63
6	4924.00	34.0 AV	54.0	-20.0	1.10 H	163	-5.61	39.63
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	*2462.00	103.9 PK			1.01 V	174	71.34	32.58
2	*2462.00	94.1 AV			1.01 V	174	61.52	32.58
3	2483.50	59.7 PK	74.0	-14.3	1.00 V	174	27.03	32.67
4	2483.50	46.5 AV	54.0	-7.5	1.00 V	174	13.84	32.67
5	4924.00	47.1 PK	74.0	-26.9	1.12 V	192	7.44	39.63
6	4924.00	34.6 AV	54.0	-19.5	1.12 V	192	-5.08	39.63

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	58.0 PK	74.0	-16.0	1.01 H	270	25.77	32.25
2	2390.00	44.9 AV	54.0	-9.1	1.01 H	270	12.64	32.25
3	*2412.00	102.2 PK			1.01 H	270	69.84	32.35
4	*2412.00	92.8 AV			1.01 H	270	60.49	32.35
5	4824.00	44.0 PK	74.0	-30.0	1.03 H	218	4.61	39.43
6	4824.00	31.9 AV	54.0	-22.1	1.03 H	218	-7.56	39.43
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.02 V	173	27.04	32.25
2	2390.00	45.2 AV	54.0	-8.8	1.02 V	173	12.91	32.25
3	*2412.00	102.5 PK			1.02 V	173	70.11	32.35
4	*2412.00	92.7 AV			1.02 V	173	60.38	32.35
5	4824.00	46.2 PK	74.0	-27.9	1.12 V	168	6.72	39.43
6	4824.00	33.3 AV	54.0	-20.7	1.12 V	168	-6.15	39.43

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	102.7 PK			1.00 H	273	70.20	32.46
2	*2437.00	92.9 AV			1.00 H	273	60.41	32.46
3	4874.00	45.9 PK	74.0	-28.1	1.02 H	203	6.37	39.55
4	4874.00	33.3 AV	54.0	-20.7	1.02 H	203	-6.24	39.55
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	102.7 PK			1.01 V	178	70.27	32.46
2	*2437.00	93.0 AV			1.01 V	178	60.58	32.46
3	4874.00	47.1 PK	74.0	-26.9	1.12 V	184	7.58	39.55
4	4874.00	34.8 AV	54.0	-19.2	1.12 V	184	-4.73	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	102.3 PK			1.01 H	269	69.75	32.58
2	*2462.00	92.7 AV			1.01 H	269	60.09	32.58
3	2483.50	58.7 PK	74.0	-15.3	1.01 H	269	26.03	32.67
4	2483.50	45.4 AV	54.0	-8.6	1.01 H	269	12.77	32.67
5	4924.00	45.2 PK	74.0	-28.8	1.05 H	197	5.54	39.63
6	4924.00	32.5 AV	54.0	-21.6	1.05 H	197	-7.18	39.63
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	*2462.00	102.5 PK			1.00 V	171	69.91	32.58
2	*2462.00	92.8 AV			1.00 V	171	60.23	32.58
3	2483.50	59.8 PK	74.0	-14.2	1.00 V	171	27.14	32.67
4	2483.50	45.8 AV	54.0	-8.3	1.00 V	171	13.08	32.67
5	4924.00	46.4 PK	74.0	-27.6	1.10 V	175	6.74	39.63
6	4924.00	33.9 AV	54.0	-20.1	1.10 V	175	-5.69	39.63

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	58.2 PK	74.0	-15.8	1.00 H	223	25.97	32.25
2	2390.00	45.1 AV	54.0	-8.9	1.00 H	223	12.84	32.25
3	*2422.00	100.0 PK			1.00 H	223	67.60	32.39
4	*2422.00	89.7 AV			1.00 H	223	57.29	32.39
5	4844.00	45.8 PK	74.0	-28.2	1.00 H	205	6.35	39.48
6	4844.00	32.0 AV	54.0	-22.0	1.00 H	205	-7.51	39.48
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.2 PK	74.0	-14.8	1.02 V	336	26.98	32.25
2	2390.00	45.4 AV	54.0	-8.6	1.02 V	336	13.12	32.25
3	*2422.00	101.3 PK			1.02 V	336	68.89	32.39
4	*2422.00	91.6 AV			1.02 V	336	59.23	32.39
5	4844.00	45.6 PK	74.0	-28.4	1.12 V	158	6.09	39.48
6	4844.00	32.9 AV	54.0	-21.1	1.12 V	158	-6.60	39.48

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	100.4 PK			1.01 H	272	67.95	32.46
2	*2437.00	90.2 AV			1.01 H	272	57.78	32.46
3	4874.00	45.0 PK	74.0	-29.0	1.03 H	211	5.48	39.55
4	4874.00	31.8 AV	54.0	-22.2	1.03 H	211	-7.73	39.55
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	101.2 PK			1.00 V	338	68.78	32.46
2	*2437.00	91.9 AV			1.00 V	338	59.46	32.46
3	4874.00	46.7 PK	74.0	-27.3	1.10 V	165	7.14	39.55
4	4874.00	33.3 AV	54.0	-20.7	1.10 V	165	-6.27	39.55

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)
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	99.3 PK			1.01 H	268	66.73	32.53
2	*2452.00	89.4 AV			1.01 H	268	56.89	32.53
3	2483.50	58.7 PK	74.0	-15.4	1.01 H	268	25.98	32.67
4	2483.50	45.6 AV	54.0	-8.4	1.01 H	268	12.95	32.67
5	4904.00	45.9 PK	74.0	-28.1	1.03 H	189	6.25	39.62
6	4904.00	33.0 AV	54.0	-21.0	1.03 H	189	-6.64	39.62
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	100.8 PK			1.01 V	337	68.23	32.53
2	*2452.00	91.0 AV			1.01 V	337	58.44	32.53
3	2483.50	59.6 PK	74.0	-14.4	1.01 V	337	26.89	32.67
4	2483.50	46.0 AV	54.0	-8.0	1.01 V	337	13.32	32.67
5	4904.00	46.0 PK	74.0	-28.0	1.10 V	174	6.41	39.62
6	4904.00	33.4 AV	54.0	-20.6	1.10 V	174	-6.26	39.62

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)
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



A D T

BELOW 1GHz WORST-CASE DATA**802.11b**

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
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	166.77	28.7 QP	43.5	-14.8	1.97 H	72	0.53	28.16
2	240.49	32.7 QP	46.0	-13.3	1.48 H	10	4.58	28.16
3	478.14	28.8 QP	46.0	-17.2	2.03 H	235	0.64	28.16
4	600.36	32.0 QP	46.0	-14.0	1.48 H	235	3.87	28.16
5	719.67	32.2 QP	46.0	-13.8	1.06 H	254	4.01	28.16
6	960.00	45.1 QP	46.0	-0.9	1.53 H	256	16.95	28.16
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	48.43	26.1 QP	40.0	-13.9	1.47 V	270	-2.07	28.16
2	166.77	23.5 QP	43.5	-20.0	1.98 V	168	-4.67	28.16
3	377.26	24.4 QP	46.0	-21.6	1.45 V	316	-3.78	28.16
4	477.17	23.4 QP	46.0	-22.6	1.26 V	292	-4.75	28.16
5	719.67	27.0 QP	46.0	-19.0	1.03 V	277	-1.15	28.16
6	960.00	44.9 QP	46.0	-1.1	1.50 V	222	16.73	28.16

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).
- Pre-Amplifier Factor (dB) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



A D T

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
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	166.77	35.9 QP	43.5	-7.6	1.50 H	73	21.82	14.09
2	240.49	37.6 QP	46.0	-8.4	1.50 H	195	24.42	13.20
3	478.14	34.1 QP	46.0	-11.9	2.00 H	237	13.15	20.98
4	600.36	37.6 QP	46.0	-8.4	1.50 H	232	14.06	23.50
5	719.67	38.4 QP	46.0	-7.6	1.00 H	310	13.00	25.40
6	960.00	44.5 QP	46.0	-1.6	1.50 H	257	15.34	29.11
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	34.85	30.8 QP	40.0	-9.2	2.00 V	72	17.67	13.11
2	166.77	36.3 QP	43.5	-7.2	1.50 V	252	22.18	14.09
3	240.49	37.7 QP	46.0	-8.3	1.00 V	215	24.52	13.20
4	480.08	35.3 QP	46.0	-10.7	2.00 V	345	14.28	21.00
5	719.67	39.8 QP	46.0	-6.2	1.00 V	249	14.40	25.40
6	960.00	44.9 QP	46.0	-1.1	1.00 V	311	15.77	29.11

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).
- Pre-Amplifier Factor (dB) if use.
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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100276	Jan. 07, 2013	Jan. 06, 2014
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100219	Nov. 28, 2012	Nov. 27, 2013
LISN With Adapter (for EUT)	AD10	C10Ada-001	Nov. 28, 2012	Nov. 27, 2013
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100218	Dec. 05, 2012	Dec. 04, 2013
Software	ADT_Cond_V7.3.7	NA	NA	NA
Software	ADT_ISN_V7.3.7	NA	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	Feb. 19, 2013	Feb. 18, 2014
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Feb. 06, 2013	Feb. 05, 2014

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.

4.2.3 TEST PROCEDURES

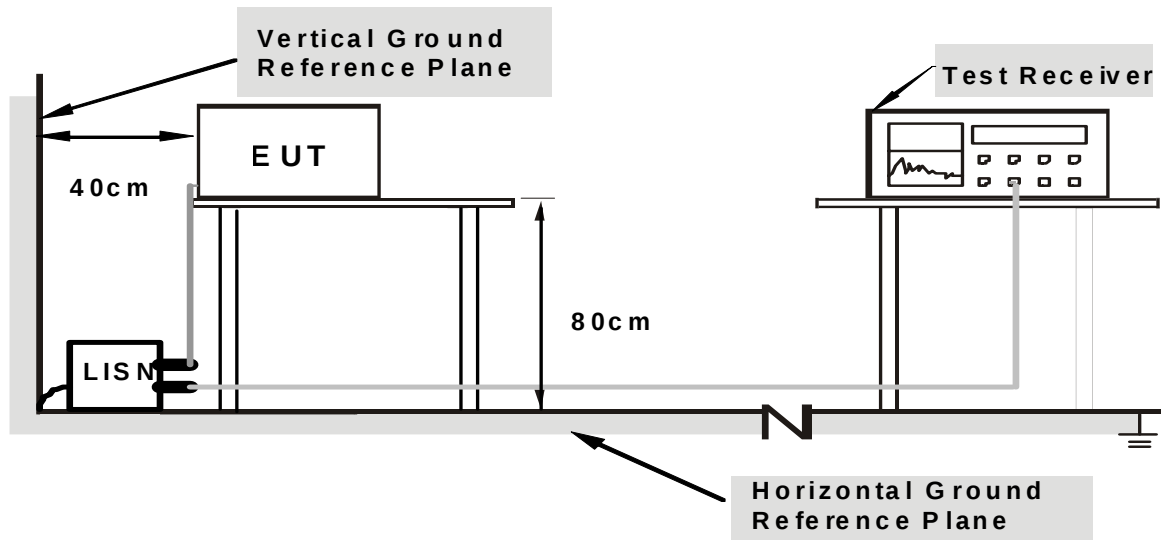
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

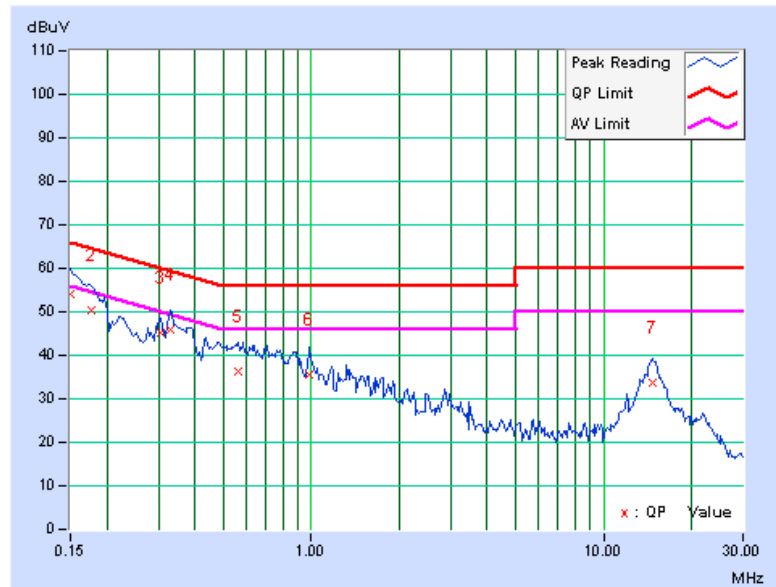
CONDUCTED WORST-CASE DATA : 802.11b

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15002	0.14	53.94	42.15	54.08	42.29	66.00	56.00	-11.92	-13.71
2	0.17734	0.14	50.14	39.70	50.28	39.84	64.61	54.61	-14.33	-14.77
3	0.30412	0.16	45.15	42.55	45.31	42.71	60.13	50.13	-14.82	-7.42
4	0.32969	0.16	45.63	44.19	45.79	44.35	59.46	49.46	-13.67	-5.11
5	0.56016	0.18	36.12	23.98	36.30	24.16	56.00	46.00	-19.70	-21.84
6	0.98594	0.19	35.22	29.93	35.41	30.12	56.00	46.00	-20.59	-15.88
7	14.63672	0.87	32.79	25.03	33.66	25.90	60.00	50.00	-26.34	-24.10

REMARKS:

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

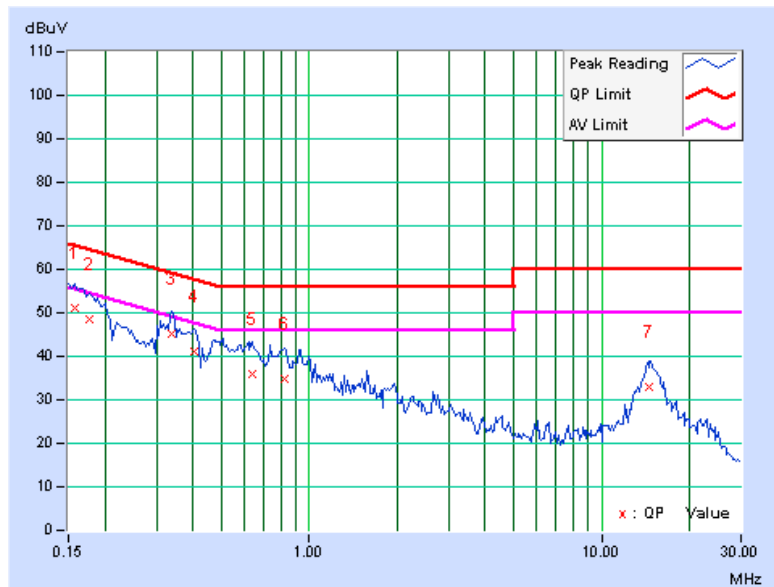


PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.11	51.01	42.23	51.12	42.34	65.58	55.58	-14.46	-13.24
2	0.17734	0.11	48.32	38.62	48.43	38.73	64.61	54.61	-16.18	-15.88
3	0.33622	0.13	44.90	41.62	45.03	41.75	59.30	49.30	-14.27	-7.55
4	0.40391	0.14	40.92	25.03	41.06	25.17	57.77	47.77	-16.71	-22.60
5	0.63828	0.14	35.97	27.24	36.11	27.38	56.00	46.00	-19.89	-18.62
6	0.82188	0.15	34.57	26.72	34.72	26.87	56.00	46.00	-21.28	-19.13
7	14.45703	0.62	32.38	24.40	33.00	25.02	60.00	50.00	-27.00	-24.98

REMARKS:

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

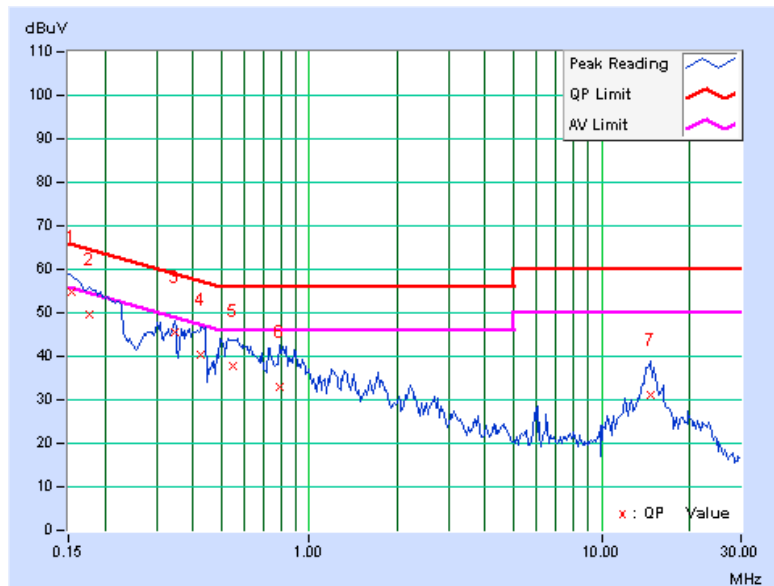


PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]	(dB)	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.14	54.60	41.78	54.74	41.92	65.79	55.79	-11.05	-13.87
2	0.17734	0.14	49.53	38.76	49.67	38.90	64.61	54.61	-14.94	-15.71
3	0.34531	0.16	45.23	43.69	45.39	43.85	59.07	49.07	-13.68	-5.22
4	0.42734	0.17	40.13	26.84	40.30	27.01	57.30	47.30	-17.00	-20.29
5	0.54844	0.17	37.72	26.37	37.89	26.54	56.00	46.00	-18.11	-19.46
6	0.79453	0.18	32.60	23.77	32.78	23.95	56.00	46.00	-23.22	-22.05
7	14.72266	0.88	30.28	22.42	31.16	23.30	60.00	50.00	-28.84	-26.70

REMARKS:

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

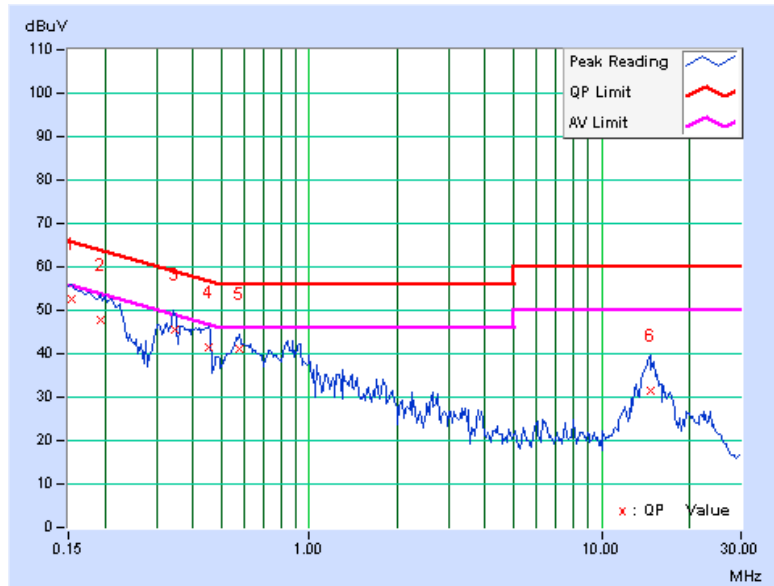


PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]	(dB)	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	(dB)	(dB)
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.11	52.49	42.47	52.60	42.58	65.79	55.79	-13.19	-13.21
2	0.19297	0.11	47.58	37.83	47.69	37.94	63.91	53.91	-16.22	-15.97
3	0.34534	0.13	45.52	43.87	45.65	44.00	59.07	49.07	-13.42	-5.07
4	0.45078	0.14	41.36	24.34	41.50	24.48	56.86	46.86	-15.36	-22.38
5	0.57578	0.14	41.03	27.24	41.17	27.38	56.00	46.00	-14.83	-18.62
6	14.64844	0.63	30.91	22.40	31.54	23.03	60.00	50.00	-28.46	-26.97

REMARKS:

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

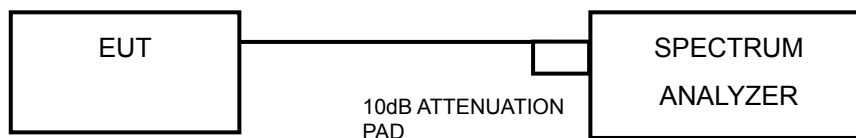


4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURE

- Set resolution bandwidth (RBW) = approximately 1% of the emission bandwidth
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

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

Mode A:

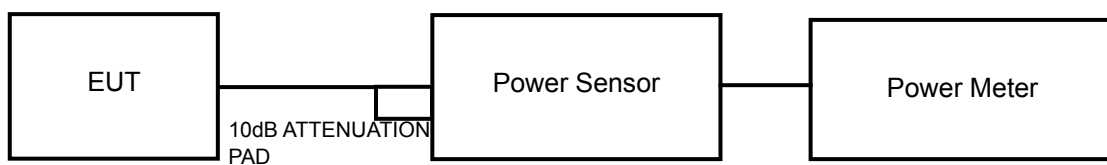
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
802.11b				
1	2412	10.12	0.5	PASS
6	2437	10.13	0.5	PASS
11	2462	10.13	0.5	PASS
802.11g				
1	2412	16.55	0.5	PASS
6	2437	16.57	0.5	PASS
11	2462	16.54	0.5	PASS
802.11n (20MHz)				
1	2412	17.74	0.5	PASS
6	2437	17.73	0.5	PASS
11	2462	17.76	0.5	PASS
802.11n (40MHz)				
3	2422	36.58	0.5	PASS
6	2437	36.55	0.5	PASS
9	2452	36.58	0.5	PASS

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

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

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

Mode A:

FOR PEAK POWER

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)	POWER OUTPUT (mW)	POWER LIMIT (dBm)	PASS / FAIL
802.11b					
1	2412	19.2	83.2	30	PASS
6	2437	19.0	79.4	30	PASS
11	2462	19.0	79.4	30	PASS
802.11g					
1	2412	23.4	218.8	30	PASS
6	2437	23.4	218.8	30	PASS
11	2462	23.0	199.5	30	PASS
802.11n (20MHz)					
1	2412	21.4	138.0	30	PASS
6	2437	21.0	125.9	30	PASS
11	2462	21.1	128.8	30	PASS
802.11n (40MHz)					
3	2422	21.4	138.0	30	PASS
6	2437	22.5	177.8	30	PASS
9	2452	22.1	162.2	30	PASS

FOR AVERAGE POWER

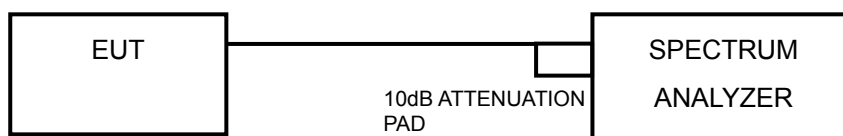
CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)
802.11b			
1	2412	16.5	44.7
6	2437	16.8	47.9
11	2462	16.5	44.7
802.11g			
1	2412	14.8	30.2
6	2437	14.7	29.5
11	2462	14.9	30.9
802.11n (20MHz)			
1	2412	12.8	19.1
6	2437	12.8	19.1
11	2462	12.7	18.6
802.11n (40MHz)			
3	2422	13.0	20.0
6	2437	13.0	20.0
9	2452	12.7	18.6

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 SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- Set the RBW = 3 kHz, VBW = 10 kHz, Detector = peak.
- Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

**A D T**

4.5.7 TEST RESULTS

Mode A:

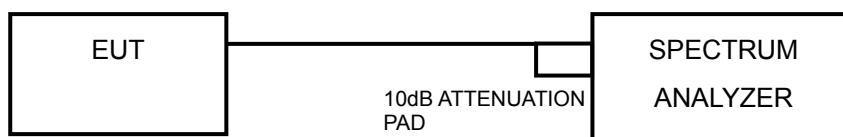
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
802.11b				
1	2412	-15.28	8	PASS
6	2437	-16.14	8	PASS
11	2462	-16.75	8	PASS
802.11g				
1	2412	-16.61	8	PASS
6	2437	-16.99	8	PASS
11	2462	-17.74	8	PASS
802.11n (20MHz)				
1	2412	-16.01	8	PASS
6	2437	-16.60	8	PASS
11	2462	-17.84	8	PASS
802.11n (40MHz)				
3	2422	-21.04	8	PASS
6	2437	-21.52	8	PASS
9	2452	-20.68	8	PASS

4.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

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

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined.
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

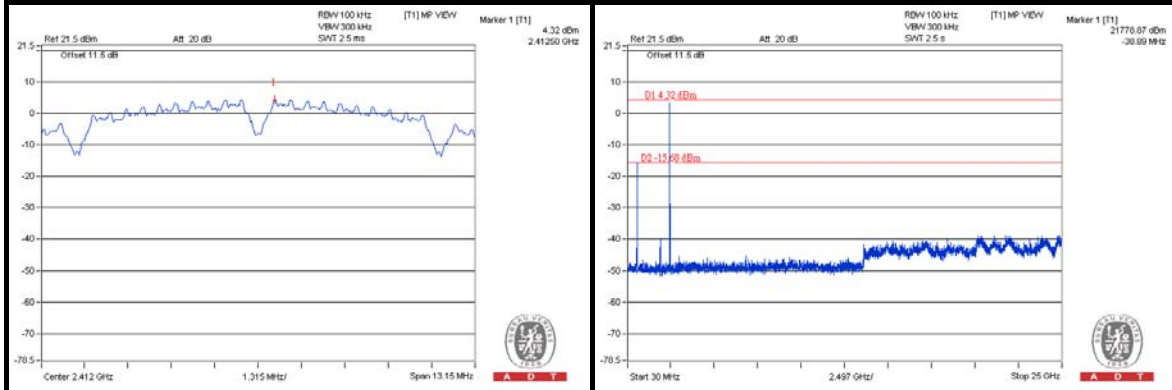
Same as Item 4.3.6

4.6.7 TEST RESULTS

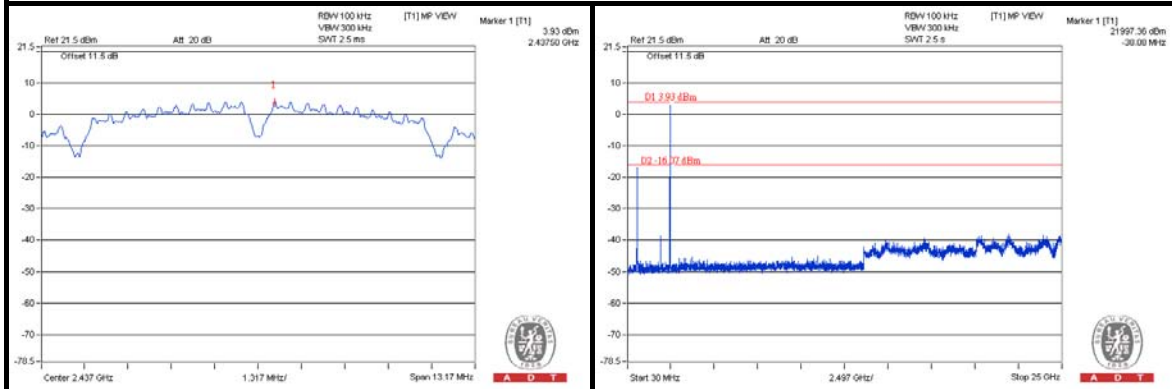
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

Mode A:
802.11b

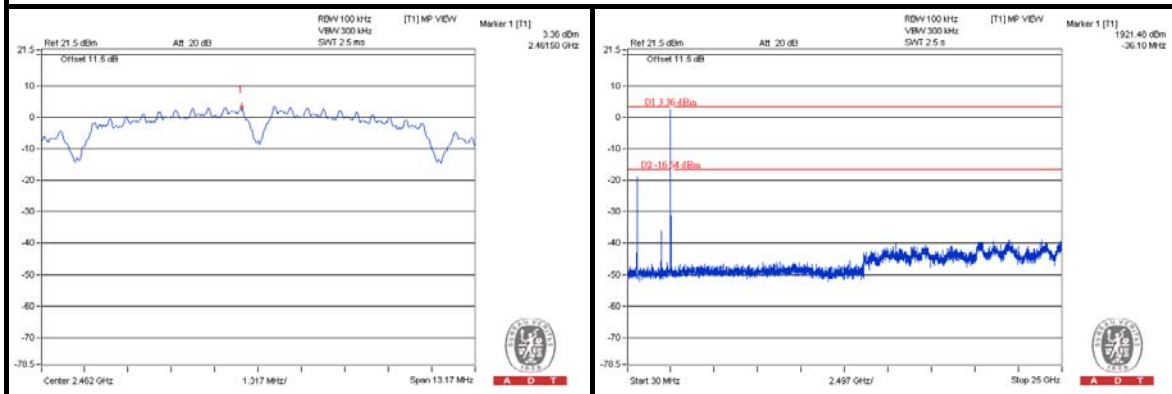
CH 1



CH 6

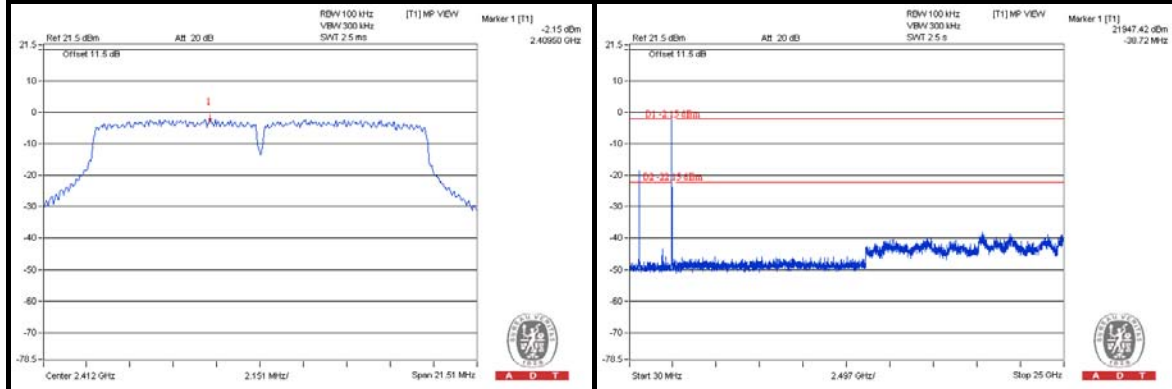


CH 11

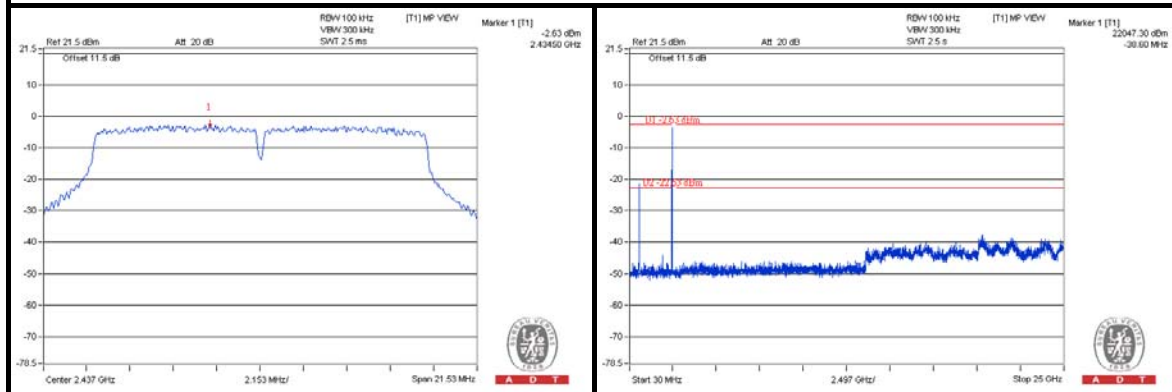


802.11g

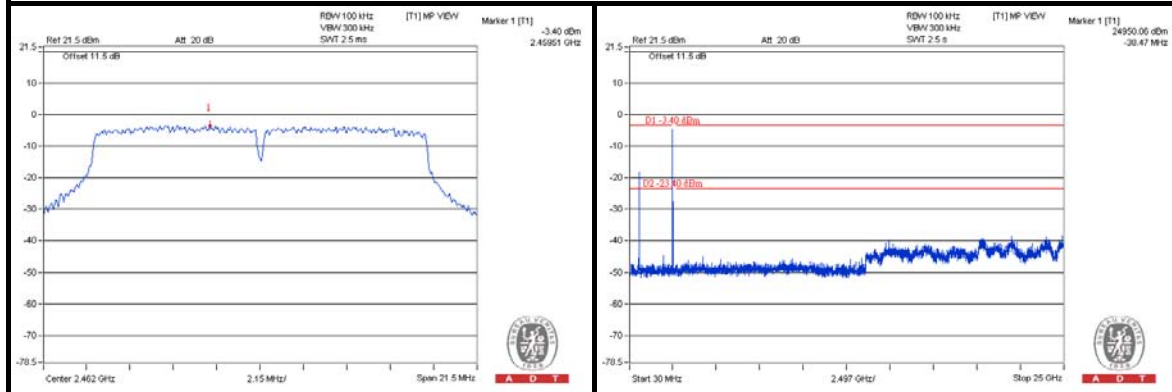
CH 1



CH 6

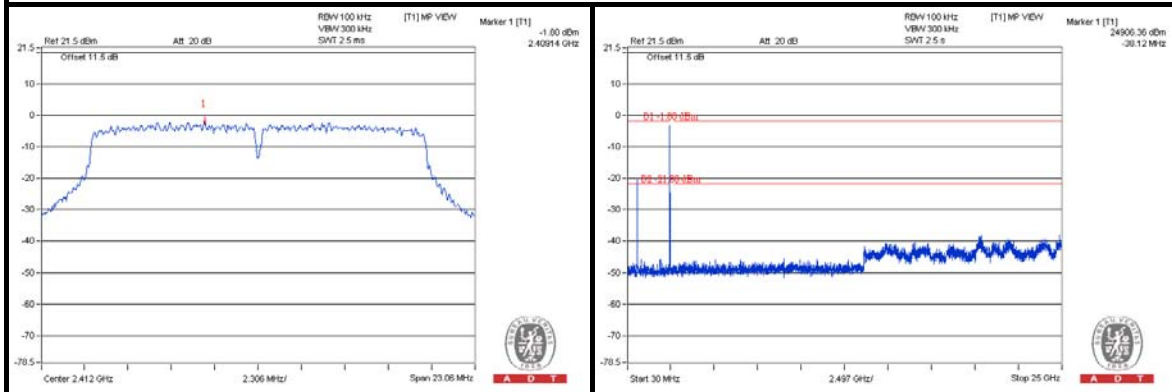


CH 11

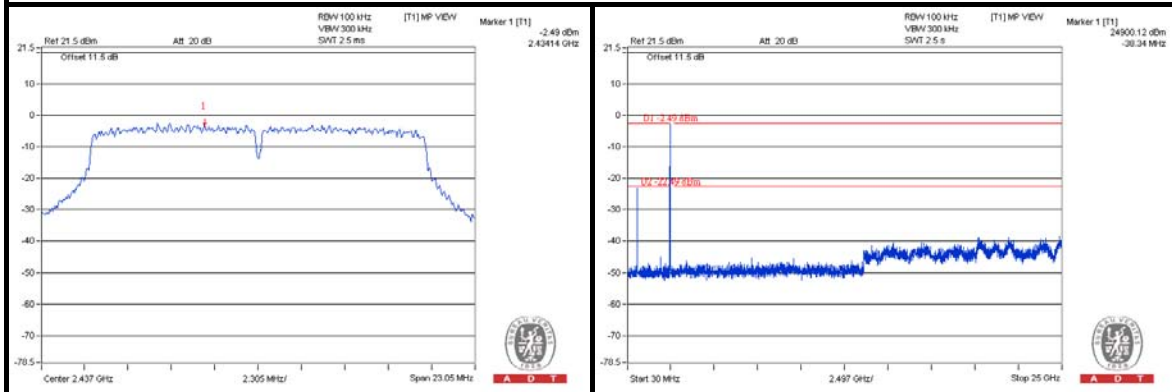


802.11n (20MHz)

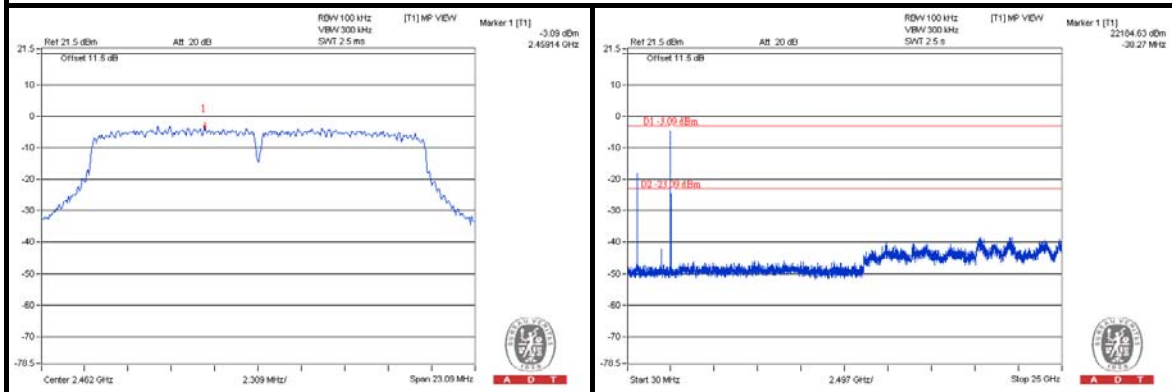
CH 1



CH 6



CH 11

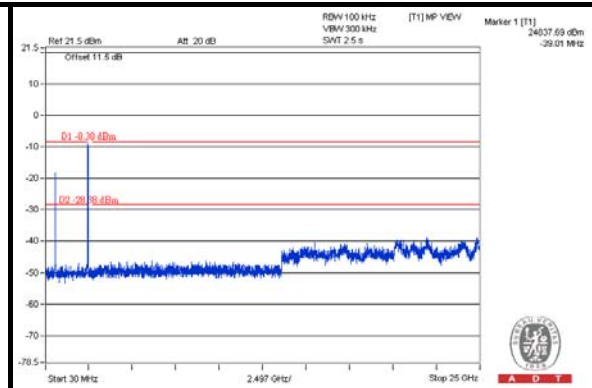
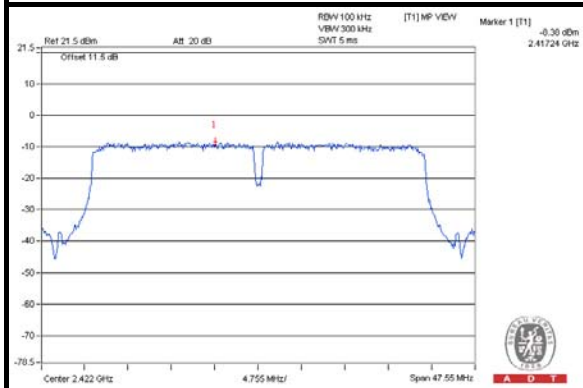




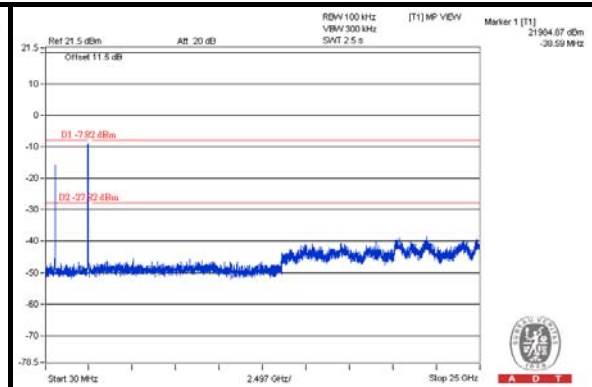
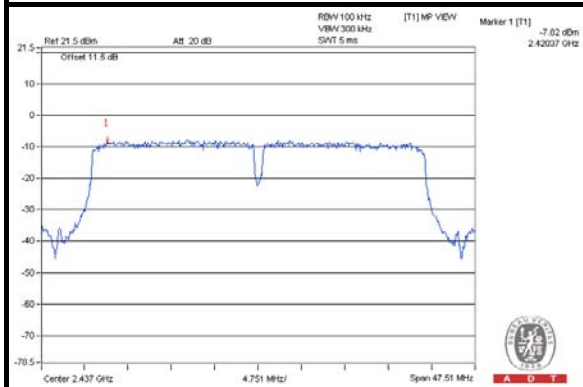
A D T

802.11n (40MHz)

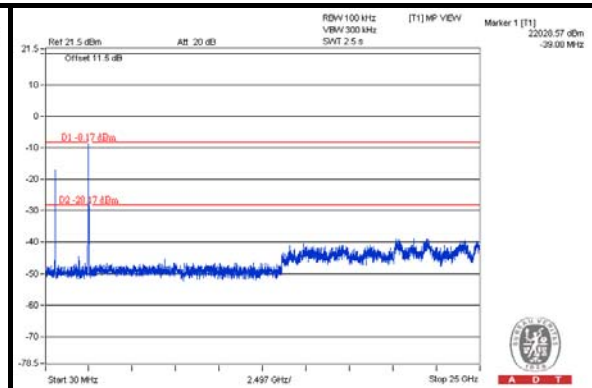
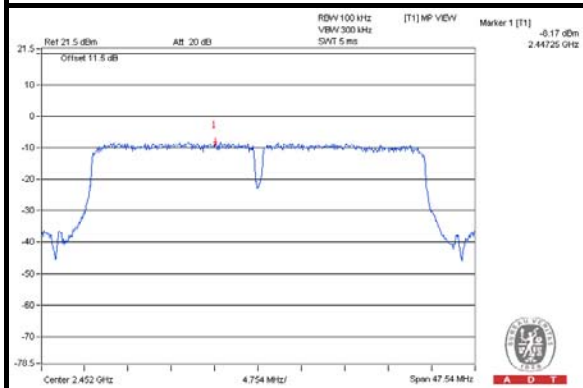
CH 3



CH 6



CH 9





A D T

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



A D T

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.

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: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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



A D T

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

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

---END---