FCC TEST REPORT
(15.407)

REPORT NO.:	RF141029C03A
MODEL NO.:	MR72-HW
FCC ID:	UDX-60033010
RECEIVED:	Oct. 07, 2014
TESTED:	Oct. 07 ~ Dec. 10, 2014
ISSUED:	Dec. 25, 2014

APPLICANT:	Cisco Systems, Inc.
ADDRESS:	170 West Tasman Drive, San Jose, CA 95134

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

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF141029C03A	Original release.	Dec. 25, 2014

1. CERTIFICATION

PRODUCT:	802.11 abgn/ac device
MODEL:	MR72-HW
BRAND:	Cisco
APPLICANT:	Cisco Systems, Inc.
TESTED:	Oct. 07 ~ Dec. 10, 2014
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 15, Subpart E (Section 15.407)**

The above equipment (model: MR72-HW) 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 : _____ **, DATE :** Dec. 25, 2014

Pettie Chen / Senior Specialist

APPROVED BY : _____ **, DATE :** Dec. 25, 2014

Ken Liu / Senior Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 Under New Rule)			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
15.407(b)(6)	AC Power Conducted Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -14.24dB at 0.45469MHz.
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5000.00, 5350.00, 5725.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	For Dipole, Patch, Sector antenna: Antenna connector is N-Type. (The device is professionally installed). For PIFA antenna: No antenna connector is used.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 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 abgn/ac device
MODEL NO.	MR72-HW
POWER SUPPLY	55Vdc (POE)
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 866.6Mbps
OPERATING FREQUENCY	5260 ~ 5320MHz, 5500 ~ 5700MHz
NUMBER OF CHANNEL	5260 ~ 5320MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 3 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)
OUTPUT POWER	**Dipole Antenna**: 166.471mW for 5260 ~ 5320MHz 170.508mW for 5500 ~ 5700MHz **Patch Antenna**: 185.255mW for 5260 ~ 5320MHz 180.523mW for 5500 ~ 5700MHz **Sector Antenna:** 49.851mW for 5260 ~ 5320MHz 48.253mW for 5500 ~ 5700MHz **PIFA Antenna:** 156.315mW for 5260 ~ 5320MHz 140.605mW for 5500 ~ 5700MHz
ANTENNA TYPE	Refer to note
ANTENNA CONNECTOR	Refer to note
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report of BV ADT report no.: RF141029C03-1. Difference compared with the original report is adding 5260~5320MHz and 5500~5700MHz band. Therefore, the EUT was re-tested and presented in the test report.
2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION	REMARK
802.11a	1TX	Radio 3
	2TX	Radio 2
802.11n (HT20)	1TX	Radio 3
	2TX	Radio 2
802.11n (HT40)	1TX	Radio 3
	2TX	Radio 2
802.11ac (80MHz)	2TX	Radio 2

* The modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

3. The EUT with follow antennas gain is listed as table below.

No.	Type	Connector	Gain(dBi)									Remark
			2400 MHz	2450 MHz	2500 MHz	4900 MHz	5150 MHz	5350 MHz	5475 MHz	5725 MHz	5875 MHz	
1	Dipole	N-Type	4			-						Radio 1 (WLAN)
			-			7						Radio 2 (WLAN)
	Patch	N-Type	8.1			-						Radio 1 (WLAN)
			-			7.1						Radio 2 (WLAN)
	Sector	N-Type	11			-						Radio 1 (WLAN)
			-			13						Radio 2 (WLAN)
2	PIFA	NA	5.4	5.7	4.7	6.0	6.1	5.7	6.2	5.8	6.5	Radio 3 (WLAN)
3	PIFA	NA	4.2			-						Radio 4 (BT LE)

* Antenna 1 of the EUT can choose dipole, patch or sector antenna.

4. The EUT consumes power from the following POE. (for supply unit only)

POE	
BRAND	CISCO
MODEL	PD-9001GR/AT/AC
INPUT POWER	100-240Vac~0.67A, 50/60Hz
OUTPUT POWER	55Vdc, 0.6A

5. 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

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
58	5290MHz

FOR 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	134	5670 MHz
110	5550 MHz		

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
106	5530MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

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

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

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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			52 to 64	52, 60, 64	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			52 to 64	52, 60, 64	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			54 to 62	54, 62	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		58	58	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			100 to 140	100, 116, 140	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			100 to 140	100, 116, 140	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			102 to 134	102, 110, 134	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		106	106	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)

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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
-	802.11n (HT20)	5260-5320, 5500-5700	52 to 64, 100 to 140	64	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole Antenna)
				157	OFDM	BPSK	14.4	2TX (Radio 2) (Patch & Sector Antenna)
				52	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)

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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
-	802.11n (HT20)	5260-5320, 5500-5700	52 to 64, 100 to 140	64	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole Antenna)
				157	OFDM	BPSK	14.4	2TX (Radio 2) (Patch & Sector Antenna)
				52	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)

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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			52 to 64	52, 60, 64	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			52 to 64	52, 60, 64	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			54 to 62	54, 62	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		58	58	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			100 to 140	100, 116, 140	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			100 to 140	100, 116, 140	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			102 to 134	102, 110, 134	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		106	106	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE>1G	22deg. C, 72%RH 22deg. C, 70%RH	55Vdc	Nick Hsu Jones Chang
RE<1G	22deg. C, 65%RH	55Vdc	Jones Chang
PLC	22deg. C, 72%RH	55Vdc	Nick Hsu
APCM	25deg. C, 60%RH	55Vdc	Nick Hsu

3.3 DUTY CYCLE OF TEST SIGNAL

Radio 2: Dipole antenna

Duty cycle is > 98%, duty factor is not required.

802.11n (HT20): Duty cycle = 1.91/1.947 = 0.981 > 98%, duty factor is not required.

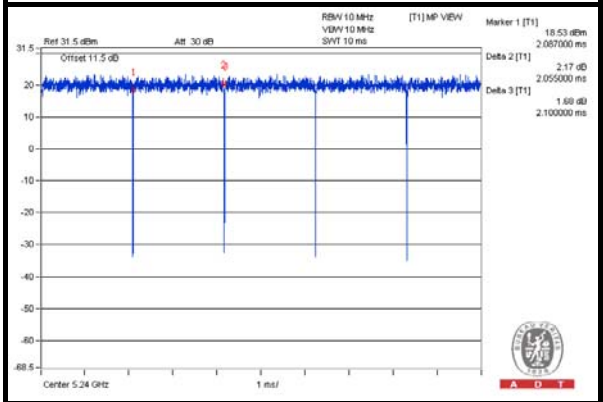
Duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 2.055/2.1 = 0.979, Duty factor = 10 * log(1/0.979) = 0.09

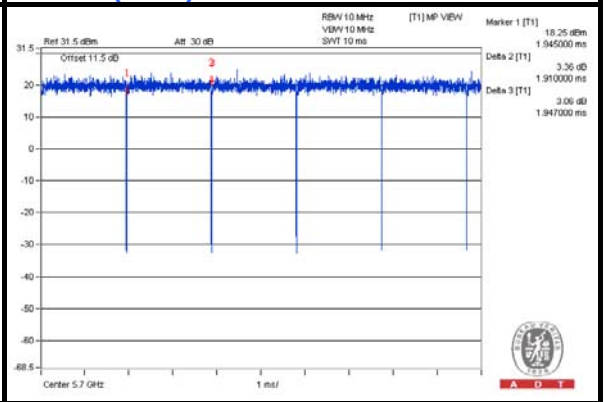
802.11n (HT40): Duty cycle = 0.934/0.977 = 0.956, Duty factor = 10 * log(1/0.956) = 0.20

802.11ac (VHT80): Duty cycle = 0.447/0.480 = 0.931, Duty factor = 10 * log(1/0.931) = 0.31

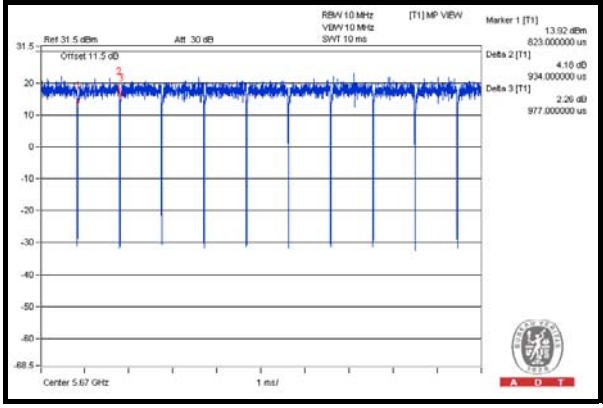
802.11a



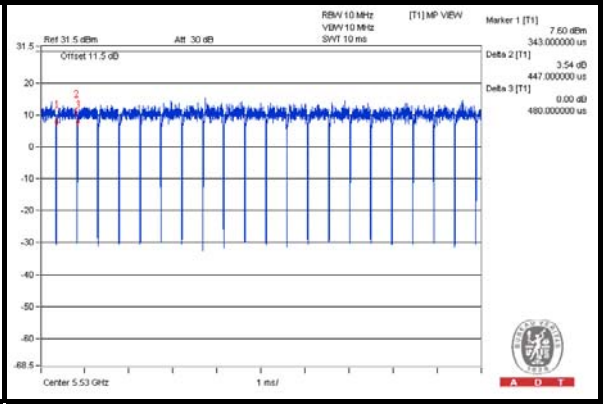
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

Duty cycle is > 98%, duty factor is not required.

802.11a: Duty cycle = 2.055/2.083 = 0.987 > 98%, duty factor is not required.

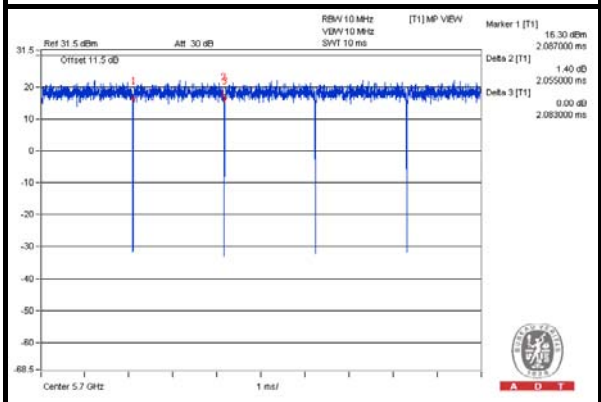
802.11n (HT20): Duty cycle = 1.915/1.955 = 0.98 > 98%, duty factor is not required.

Duty cycle is < 98%, duty factor shall be considered.

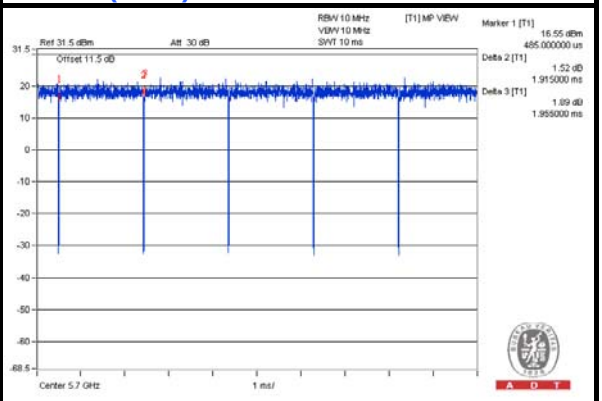
802.11n (HT40): Duty cycle = 0.935/0.972 = 0.962, Duty factor = 10 * log(1/0.962) = 0.17

802.11ac (VHT80): Duty cycle = 0.445/0.493 = 0.903, Duty factor = 10 * log(1/0.903) = 0.44

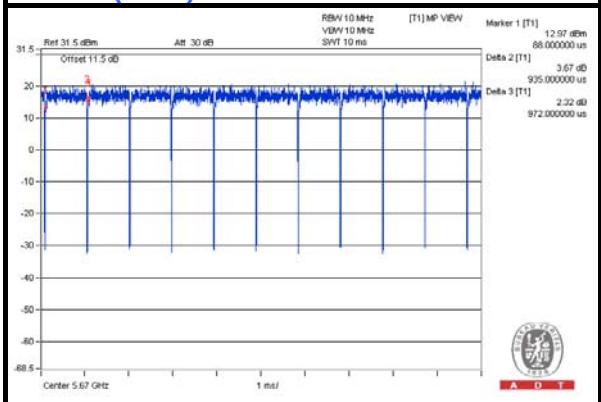
802.11a



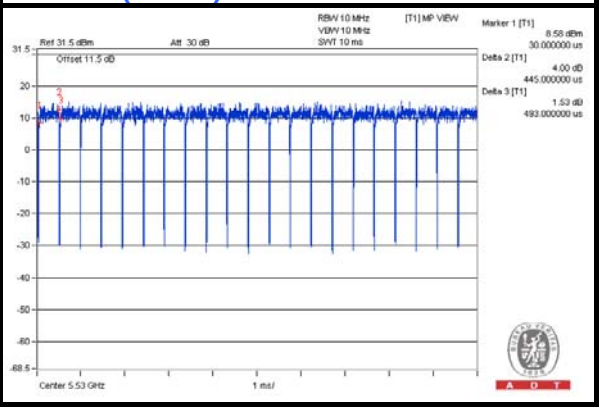
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Sector antenna

Duty cycle is > 98%, duty factor is not required.

802.11a: Duty cycle = 2.055/2.083 = 0.987 > 98%, duty factor is not required.

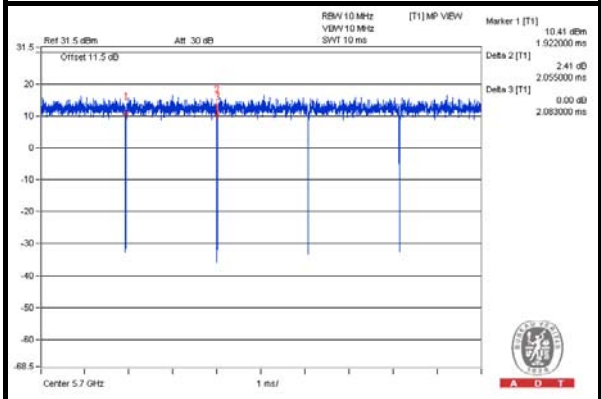
802.11n (HT20): Duty cycle = 1.91/1.947 = 0.981 > 98%, duty factor is not required.

Duty cycle is < 98%, duty factor shall be considered.

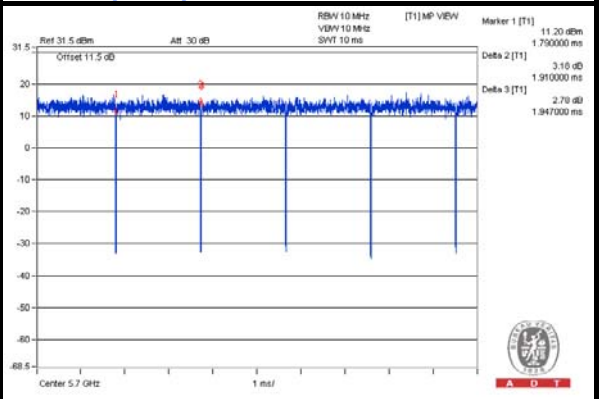
802.11n (HT40): Duty cycle = 0.937/0.967 = 0.966, Duty factor = 10 * log(1/0.966) = 0.15

802.11ac (VHT80): Duty cycle = 0.452/0.48 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

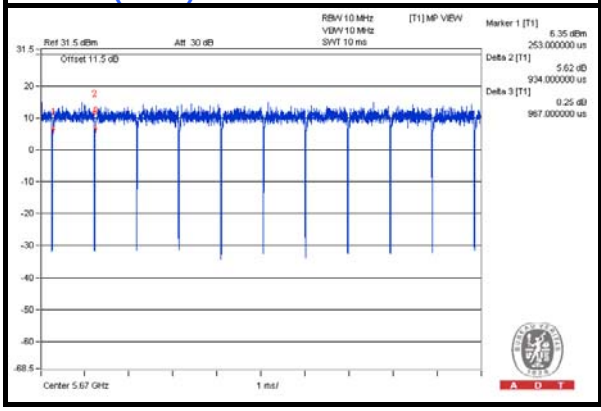
802.11a



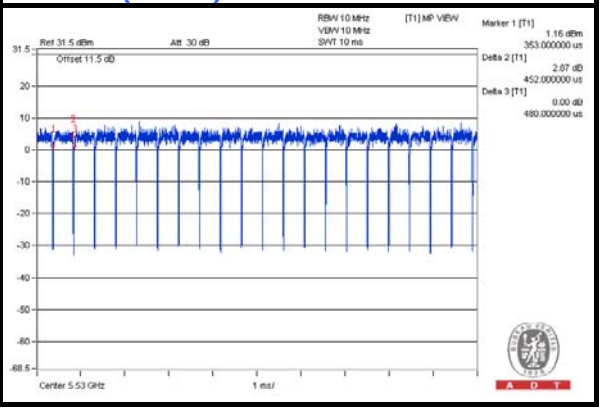
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

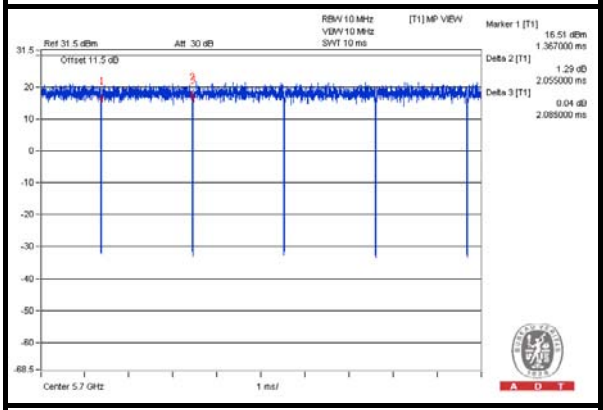
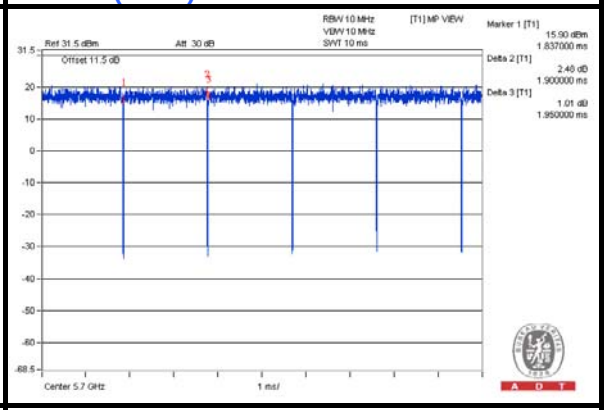
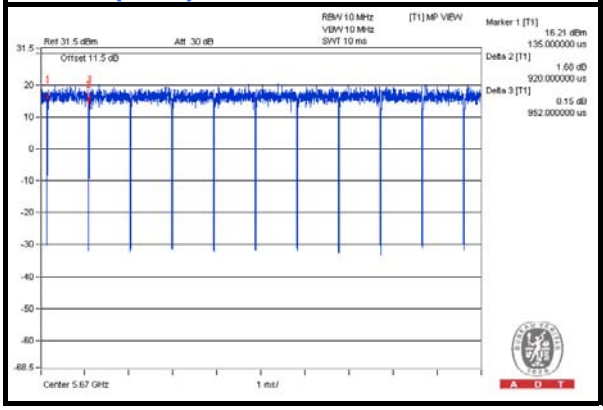
802.11a: Duty cycle of test signal is > 98 %, duty factor is not required.

802.11a: Duty cycle = 2.055/2.085 = 0.986 > 98%, duty factor is not required.

802.11n (HT20), 802.11n (HT40): Duty cycle is < 98%, duty factor shall be considered.

802.11n (HT20): Duty cycle = 1.9/1.95 = 0.974, Duty factor = 10 * log(1/0.974) = 0.11

802.11n (HT40): Duty cycle = 0.92/0.952 = 0.966, Duty factor = 10 * log(1/0.966) = 0.15

802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

3.4 DESCRIPTION OF SUPPORT UNITS

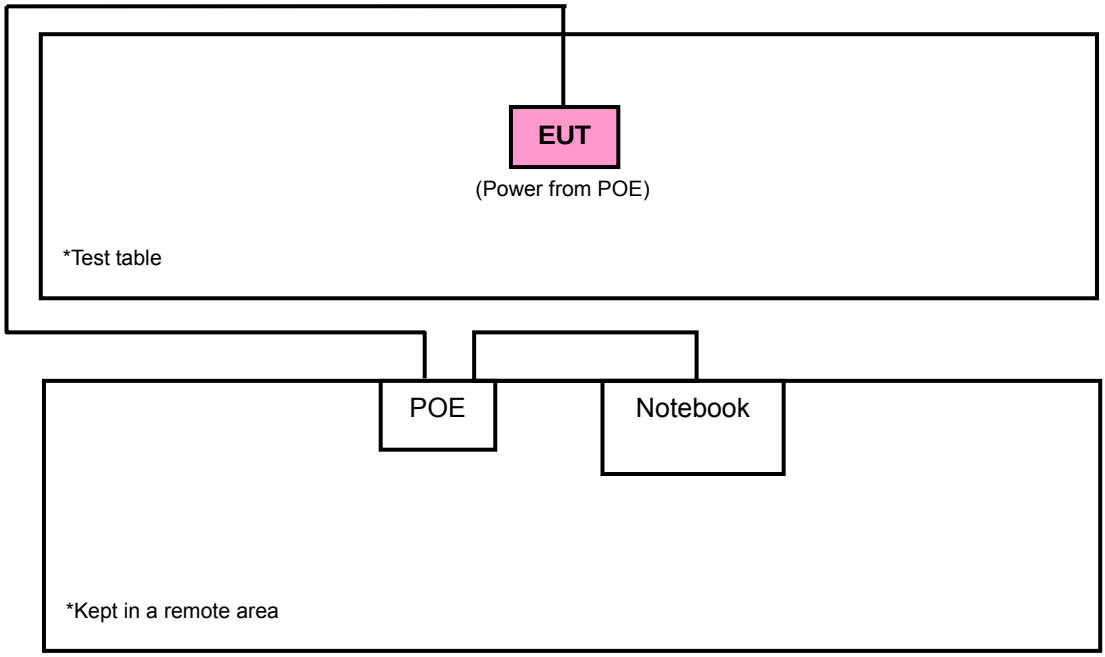
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D531	CN-0XM006-48643 -81U-2973	QDS-BRCM1020
2	POE	CISCO	PD-9001GR/AT/AC	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.8m LAN cable
2	10m LAN cable

NOTE:
1. All power cords of the above support units are non-shielded (1.8 m).
2. Item 1 acted as a communication partner to transfer data.
3. Item 2 was provided by the manufacturer.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)
789033 D02 General UNII Test Procedures New Rules v01
662911 D01 Multiple Transmitter Output v02r01
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:

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 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**EQUIVALENT FIELD STRENGTH AT 3m**
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) *1 PK: -17 (dBm/MHz) *2	PK: 68.2 (dBμV/m) *1 PK: 78.2 (dBμV/m) *2

NOTE: *1 beyond 10MHz of the band edge *2 within 10 MHz of band edge

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Jan. 02, 2014	Jan. 01, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Mar. 03, 2014	Mar. 02, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Feb. 26, 2014	Feb. 25, 2015
HORN Antenna SCHWARZBECK	9120D	209	Aug. 25, 2014	Aug. 24, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 17, 2014	Feb. 16, 2015
Preamplifier Agilent	8447D	2944A10738	Oct.18, 2014	Oct. 17, 2015
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2014	Aug. 21, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	214378/4	Aug. 22, 2014	Aug. 21, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	12738/6 +309224/4	Aug. 22, 2014	Aug. 21, 2015
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2014	Oct. 17, 2015
High Speed Peak Power Meter	ML2495A	0824011	Jul. 26, 2014	Jul. 25, 2015
Power Sensor	MA2411B	0738171	Jul. 26, 2014	Jul. 25, 2015
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 9, 2014	Jun. 08, 2015

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

2. The test was performed in HwaYa Chamber 3.

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

4. The FCC Site Registration No. is 988962.

5. The IC Site Registration No. is IC 7450F-3.

4.1.4 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

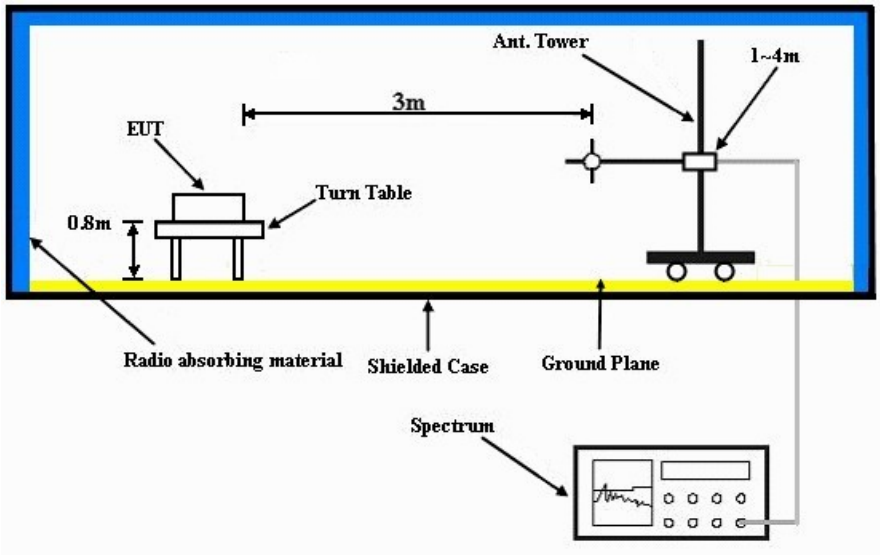
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

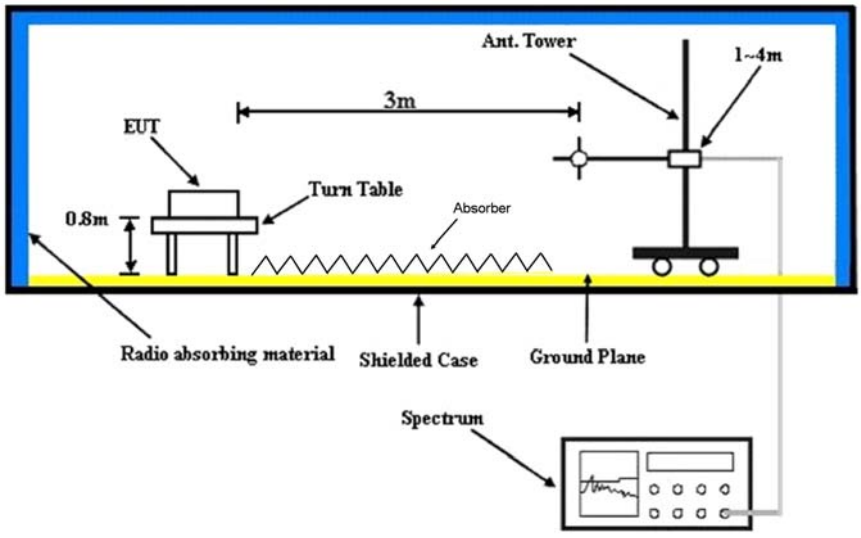
No deviation.

4.1.6 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

4.1.7 EUT OPERATING CONDITION

a. Placed the EUT on the testing table.
b. Prepared a notebook to act as communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".

4.1.8 TEST RESULTS

ABOVE 1GHz DATA

Radio 2: Dipole antenna

802.11a

CHANNEL	TX Channel 52	**DETECTOR FUNCTION**	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.6 PK	74.0	-14.4	1.11 H	352	53.50	6.10
2	5000.00	49.0 AV	54.0	-5.0	1.11 H	352	42.90	6.10
3	*5260.00	110.1 PK			1.14 H	141	70.10	40.00
4	*5260.00	100.6 AV			1.14 H	141	60.60	40.00
5	5420.00	58.9 PK	74.0	-15.1	1.15 H	268	52.30	6.60
6	5420.00	48.0 AV	54.0	-6.0	1.15 H	268	41.40	6.60
7	#10520.00	61.3 PK	74.0	-12.7	1.10 H	256	42.00	19.30
8	#10520.00	48.2 AV	54.0	-5.8	1.10 H	256	28.90	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5000.00	63.4 PK	74.0	-10.6	1.01 V	305	57.30	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.01 V**	**305**	**46.90**	**6.10**
3	*5260.00	116.4 PK			1.45 V	19	76.40	40.00
4	*5260.00	107.2 AV			1.45 V	19	67.20	40.00
5	5420.00	63.7 PK	74.0	-10.3	1.13 V	2	57.10	6.60
6	5420.00	52.8 AV	54.0	-1.2	1.13 V	2	46.20	6.60
7	#10520.00	61.7 PK	74.0	-12.3	1.13 V	19	42.40	19.30
8	#10520.00	48.5 AV	54.0	-5.5	1.13 V	19	29.20	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.9 PK	74.0	-14.1	1.11 H	350	53.80	6.10
2	5000.00	48.9 AV	54.0	-5.1	1.11 H	350	42.80	6.10
3	*5300.00	109.7 PK			1.24 H	128	69.70	40.00
4	*5300.00	100.0 AV			1.24 H	128	60.00	40.00
5	5460.00	59.3 PK	74.0	-14.7	1.22 H	301	52.60	6.70
6	5460.00	48.2 AV	54.0	-5.8	1.22 H	301	41.50	6.70
7	10600.00	61.5 PK	74.0	-12.5	1.15 H	19	41.90	19.60
8	10600.00	48.4 AV	54.0	-5.6	1.15 H	19	28.80	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	63.3 PK	74.0	-10.7	1.01 V	306	57.20	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.01 V**	**306**	**46.90**	**6.10**
3	*5300.00	117.9 PK			1.05 V	5	77.90	40.00
4	*5300.00	108.5 AV			1.05 V	5	68.50	40.00
5	5460.00	64.5 PK	74.0	-9.5	1.11 V	2	57.80	6.70
6	5460.00	52.9 AV	54.0	-1.1	1.11 V	2	46.20	6.70
7	10600.00	62.5 PK	74.0	-11.5	1.18 V	181	42.90	19.60
8	10600.00	49.2 AV	54.0	-4.8	1.18 V	181	29.60	19.60

REMARKS:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5000.00	59.7 PK	74.0	-14.3	1.13 H	351	53.60	6.10
2	5000.00	48.8 AV	54.0	-5.2	1.13 H	351	42.70	6.10
3	*5320.00	108.7 PK			1.26 H	128	68.70	40.00
4	*5320.00	98.8 AV			1.26 H	128	58.80	40.00
5	5400.00	59.7 PK	74.0	-14.3	1.20 H	49	53.10	6.60
6	5400.00	48.6 AV	54.0	-5.4	1.20 H	49	42.00	6.60
7	10640.00	61.6 PK	74.0	-12.4	1.17 H	88	42.10	19.50
8	10640.00	48.5 AV	54.0	-5.5	1.17 H	88	29.00	19.50
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	5000.00	63.1 PK	74.0	-10.9	1.00 V	310	57.00	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.00 V**	**310**	**46.90**	**6.10**
3	*5320.00	119.5 PK			1.04 V	3	79.50	40.00
4	*5320.00	109.8 AV			1.04 V	3	69.80	40.00
5	5400.00	62.6 PK	74.0	-11.4	1.03 V	1	56.00	6.60
6	5400.00	51.0 AV	54.0	-3.0	1.03 V	1	44.40	6.60
7	10640.00	62.0 PK	74.0	-12.0	1.07 V	288	42.50	19.50
8	10640.00	48.8 AV	54.0	-5.2	1.07 V	288	29.30	19.50

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 of the restricted band.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	60.0 PK	74.0	-14.0	1.28 H	18	53.90	6.10
2	5000.00	46.7 AV	54.0	-7.3	1.28 H	18	40.60	6.10
3	5460.00	58.0 PK	74.0	-16.0	1.05 H	201	51.30	6.70
4	5460.00	45.7 AV	54.0	-8.3	1.05 H	201	39.00	6.70
5	#5470.00	60.0 PK	74.0	-14.0	1.00 H	185	53.30	6.70
6	#5470.00	47.3 AV	54.0	-6.7	1.00 H	185	40.60	6.70
7	*5500.00	108.9 PK			1.00 H	129	68.60	40.30
8	*5500.00	100.0 AV			1.00 H	129	59.70	40.30
9	11000.00	60.9 PK	74.0	-13.1	1.16 H	89	40.60	20.30
10	11000.00	47.9 AV	54.0	-6.1	1.16 H	89	27.60	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.1 PK	74.0	-12.9	1.11 V	300	55.00	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.11 V**	**300**	**46.90**	**6.10**
3	5460.00	65.8 PK	74.0	-8.2	1.00 V	30	59.10	6.70
4	5460.00	48.9 AV	54.0	-5.1	1.00 V	30	42.20	6.70
5	#5470.00	70.6 PK	74.0	-3.4	1.00 V	24	63.90	6.70
6	#5470.00	52.6 AV	54.0	-1.4	1.00 V	24	45.90	6.70
7	*5500.00	120.2 PK			1.00 V	357	79.90	40.30
8	*5500.00	110.9 AV			1.00 V	357	70.60	40.30
9	11000.00	61.3 PK	74.0	-12.7	1.00 V	294	41.00	20.30
10	11000.00	47.6 AV	54.0	-6.4	1.00 V	294	27.30	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	58.9 PK	74.0	-15.1	1.16 H	16	52.80	6.10
2	5000.00	46.8 AV	54.0	-7.2	1.16 H	16	40.70	6.10
3	*5580.00	109.2 PK			1.27 H	203	68.90	40.30
4	*5580.00	99.4 AV			1.27 H	203	59.10	40.30
5	11160.00	62.2 PK	74.0	-11.8	1.17 H	69	42.30	19.90
6	11160.00	48.8 AV	54.0	-5.2	1.17 H	69	28.90	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.8 PK	74.0	-13.2	1.11 V	299	54.70	6.10
2	5000.00	52.5 AV	54.0	-1.5	1.11 V	299	46.40	6.10
3	*5580.00	119.9 PK			1.00 V	127	79.60	40.30
4	*5580.00	110.5 AV			1.00 V	127	70.20	40.30
5	11160.00	61.6 PK	74.0	-12.4	1.03 V	190	41.70	19.90
6	11160.00	48.7 AV	54.0	-5.3	1.03 V	190	28.80	19.90

REMARKS:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.3 PK	74.0	-14.7	1.07 H	18	53.20	6.10
2	5000.00	47.0 AV	54.0	-7.0	1.07 H	18	40.90	6.10
3	*5700.00	105.5 PK			1.00 H	212	65.00	40.50
4	*5700.00	96.1 AV			1.00 H	212	55.60	40.50
5	#5725.00	61.1 PK	74.0	-12.9	1.03 H	132	54.00	7.10
6	#5725.00	47.5 AV	54.0	-6.5	1.03 H	132	40.40	7.10
7	11400.00	60.2 PK	74.0	-13.8	1.14 H	261	41.30	18.90
8	11400.00	47.5 AV	54.0	-6.5	1.14 H	261	28.60	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.3 PK	74.0	-12.7	1.12 V	299	55.20	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.12 V**	**299**	**46.90**	**6.10**
3	*5700.00	116.6 PK			1.00 V	27	76.10	40.50
4	*5700.00	107.3 AV			1.00 V	27	66.80	40.50
5	#5725.00	70.1 PK	74.0	-3.9	1.00 V	179	63.00	7.10
6	#5725.00	52.7 AV	54.0	-1.3	1.00 V	179	45.60	7.10
7	11400.00	60.3 PK	74.0	-13.7	1.00 V	89	41.40	18.90
8	11400.00	47.0 AV	54.0	-7.0	1.00 V	89	28.10	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5000.00	59.3 PK	74.0	-14.7	1.09 H	353	53.20	6.10
2	5000.00	48.7 AV	54.0	-5.3	1.09 H	353	42.60	6.10
3	*5260.00	109.6 PK			1.03 H	134	69.60	40.00
4	*5260.00	99.7 AV			1.03 H	134	59.70	40.00
5	5420.00	59.3 PK	74.0	-14.7	1.16 H	260	52.70	6.60
6	5420.00	48.1 AV	54.0	-5.9	1.16 H	260	41.50	6.60
7	#10520.00	61.1 PK	74.0	-12.9	1.14 H	226	41.80	19.30
8	#10520.00	47.8 AV	54.0	-6.2	1.14 H	226	28.50	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	63.1 PK	74.0	-10.9	1.02 V	303	57.00	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.02 V**	**303**	**46.90**	**6.10**
3	*5260.00	118.3 PK			1.07 V	160	78.30	40.00
4	*5260.00	107.8 AV			1.07 V	160	67.80	40.00
5	5420.00	64.8 PK	74.0	-9.2	1.13 V	2	58.20	6.60
6	5420.00	52.6 AV	54.0	-1.4	1.13 V	2	46.00	6.60
7	#10520.00	61.4 PK	74.0	-12.6	1.14 V	26	42.10	19.30
8	#10520.00	48.0 AV	54.0	-6.0	1.14 V	26	28.70	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.6 PK	74.0	-14.4	1.10 H	350	53.50	6.10
2	5000.00	48.7 AV	54.0	-5.3	1.10 H	350	42.60	6.10
3	*5300.00	109.4 PK			1.14 H	139	69.40	40.00
4	*5300.00	99.2 AV			1.14 H	139	59.20	40.00
5	5460.00	59.1 PK	74.0	-14.9	1.20 H	298	52.40	6.70
6	5460.00	48.4 AV	54.0	-5.6	1.20 H	298	41.70	6.70
7	10600.00	61.2 PK	74.0	-12.8	1.17 H	30	41.60	19.60
8	10600.00	48.0 AV	54.0	-6.0	1.17 H	30	28.40	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	63.2 PK	74.0	-10.8	1.00 V	304	57.10	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.00 V**	**304**	**46.90**	**6.10**
3	*5300.00	118.9 PK			1.06 V	162	78.90	40.00
4	*5300.00	108.6 AV			1.06 V	162	68.60	40.00
5	5460.00	65.0 PK	74.0	-9.0	1.13 V	331	58.30	6.70
6	5460.00	52.9 AV	54.0	-1.1	1.13 V	331	46.20	6.70
7	10600.00	61.4 PK	74.0	-12.6	1.07 V	3	41.80	19.60
8	10600.00	48.5 AV	54.0	-5.5	1.07 V	3	28.90	19.60

REMARKS:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5000.00	59.4 PK	74.0	-14.6	1.10 H	353	53.30	6.10
2	5000.00	48.6 AV	54.0	-5.4	1.10 H	353	42.50	6.10
3	*5320.00	110.5 PK			1.02 H	136	70.50	40.00
4	*5320.00	100.1 AV			1.02 H	136	60.10	40.00
5	5350.00	59.2 PK	74.0	-14.8	1.18 H	53	52.80	6.40
6	5350.00	48.1 AV	54.0	-5.9	1.18 H	53	41.70	6.40
7	10640.00	61.1 PK	74.0	-12.9	1.12 H	50	41.60	19.50
8	10640.00	47.8 AV	54.0	-6.2	1.12 H	50	28.30	19.50
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	5000.00	62.9 PK	74.0	-11.1	1.00 V	305	56.80	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.00 V**	**305**	**46.90**	**6.10**
3	*5320.00	119.1 PK			1.04 V	3	79.10	40.00
4	*5320.00	109.5 AV			1.04 V	3	69.50	40.00
5	5350.00	65.5 PK	74.0	-8.5	1.02 V	1	59.10	6.40
6	5350.00	51.0 AV	54.0	-3.0	1.02 V	1	44.60	6.40
7	10640.00	61.3 PK	74.0	-12.7	1.02 V	350	41.80	19.50
8	10640.00	48.1 AV	54.0	-5.9	1.02 V	350	28.60	19.50

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	58.8 PK	74.0	-15.2	1.21 H	141	52.70	6.10
2	5000.00	46.3 AV	54.0	-7.7	1.21 H	141	40.20	6.10
3	5460.00	60.1 PK	74.0	-13.9	1.03 H	211	53.40	6.70
4	5460.00	46.2 AV	54.0	-7.8	1.03 H	211	39.50	6.70
5	#5470.00	61.8 PK	74.0	-12.2	1.00 H	199	55.10	6.70
6	#5470.00	47.5 AV	54.0	-6.5	1.00 H	199	40.80	6.70
7	*5500.00	108.9 PK			1.00 H	137	68.60	40.30
8	*5500.00	99.6 AV			1.00 H	137	59.30	40.30
9	11000.00	60.2 PK	74.0	-13.8	1.10 H	102	39.90	20.30
10	11000.00	47.9 AV	54.0	-6.1	1.10 H	102	27.60	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.7 PK	74.0	-12.3	1.24 V	300	55.60	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.24 V**	**300**	**46.90**	**6.10**
3	5460.00	62.8 PK	74.0	-11.2	1.00 V	10	56.10	6.70
4	5460.00	48.9 AV	54.0	-5.1	1.00 V	10	42.20	6.70
5	#5470.00	70.2 PK	74.0	-3.8	1.00 V	12	63.50	6.70
6	#5470.00	52.5 AV	54.0	-1.5	1.00 V	12	45.80	6.70
7	*5500.00	117.6 PK			1.00 V	0	77.30	40.30
8	*5500.00	107.9 AV			1.00 V	0	67.60	40.30
9	11000.00	59.7 PK	74.0	-14.3	1.03 V	181	39.40	20.30
10	11000.00	46.6 AV	54.0	-7.4	1.03 V	181	26.30	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.2 PK	74.0	-14.8	1.25 H	15	53.10	6.10
2	5000.00	46.4 AV	54.0	-7.6	1.25 H	15	40.30	6.10
3	*5580.00	108.5 PK			1.26 H	203	68.20	40.30
4	*5580.00	98.8 AV			1.26 H	203	58.50	40.30
5	11160.00	61.5 PK	74.0	-12.5	1.11 H	241	41.60	19.90
6	11160.00	48.8 AV	54.0	-5.2	1.11 H	241	28.90	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.8 PK	74.0	-12.2	1.23 V	297	55.70	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.23 V	297	46.80	6.10
3	*5580.00	119.0 PK			1.00 V	29	78.70	40.30
4	*5580.00	109.6 AV			1.00 V	29	69.30	40.30
5	11160.00	62.5 PK	74.0	-11.5	1.00 V	102	42.60	19.90
6	11160.00	48.7 AV	54.0	-5.3	1.00 V	102	28.80	19.90

REMARKS:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	58.3 PK	74.0	-15.7	1.17 H	20	52.20	6.10
2	5000.00	46.2 AV	54.0	-7.8	1.17 H	20	40.10	6.10
3	*5700.00	105.1 PK			1.00 H	215	64.60	40.50
4	*5700.00	94.9 AV			1.00 H	215	54.40	40.50
5	#5725.00	60.3 PK	74.0	-13.7	1.00 H	218	53.20	7.10
6	#5725.00	47.1 AV	54.0	-6.9	1.00 H	218	40.00	7.10
7	11400.00	60.0 PK	74.0	-14.0	1.11 H	251	41.10	18.90
8	11400.00	47.3 AV	54.0	-6.7	1.11 H	251	28.40	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.8 PK	74.0	-13.2	1.23 V	297	54.70	6.10
2	5000.00	52.7 AV	54.0	-1.3	1.23 V	297	46.60	6.10
3	*5700.00	115.9 PK			1.00 V	31	75.40	40.50
4	*5700.00	106.5 AV			1.00 V	31	66.00	40.50
5	#5725.00	67.9 PK	74.0	-6.1	1.00 V	180	60.80	7.10
6	#5725.00	52.9 AV	54.0	-1.1	1.00 V	180	45.80	7.10
7	11400.00	60.2 PK	74.0	-13.8	1.02 V	89	41.30	18.90
8	11400.00	47.3 AV	54.0	-6.7	1.02 V	89	28.40	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.3 PK	74.0	-14.7	1.11 H	356	53.20	6.10
2	5000.00	48.6 AV	54.0	-5.4	1.11 H	356	42.50	6.10
3	*5270.00	107.7 PK			1.15 H	140	67.70	40.00
4	*5270.00	97.1 AV			1.15 H	140	57.10	40.00
5	5440.00	49.4 PK	74.0	-24.6	1.00 H	160	42.80	6.60
6	5440.00	47.1 AV	54.0	-6.9	1.00 H	160	40.50	6.60
7	#10560.00	61.7 PK	74.0	-12.3	1.09 H	246	42.30	19.40
8	#10560.00	48.8 AV	54.0	-5.2	1.09 H	246	29.40	19.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	64.1 PK	74.0	-9.9	1.02 V	304	58.00	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.02 V	304	46.80	6.10
3	*5270.00	114.5 PK			1.06 V	359	74.50	40.00
4	*5270.00	105.2 AV			1.06 V	359	65.20	40.00
5	5440.00	63.3 PK	74.0	-10.7	1.00 V	359	56.70	6.60
6	5440.00	52.6 AV	54.0	-1.4	1.00 V	359	46.00	6.60
7	#10540.00	62.1 PK	74.0	-11.9	1.15 V	21	42.80	19.30
8	#10540.00	48.9 AV	54.0	-5.1	1.15 V	21	29.60	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.0 PK	74.0	-15.0	1.11 H	14	52.90	6.10
2	5000.00	48.3 AV	54.0	-5.7	1.11 H	14	42.20	6.10
3	*5310.00	102.1 PK			1.16 H	140	62.10	40.00
4	*5310.00	91.7 AV			1.16 H	140	51.70	40.00
5	5350.00	48.9 PK	74.0	-25.1	1.00 H	150	42.50	6.40
6	5350.00	47.4 AV	54.0	-6.6	1.00 H	150	41.00	6.40
7	10620.00	61.7 PK	74.0	-12.3	1.21 H	352	42.20	19.50
8	10620.00	48.5 AV	54.0	-5.5	1.21 H	352	29.00	19.50
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	5000.00	64.1 PK	74.0	-9.9	1.01 V	305	58.00	6.10
2	5000.00	52.8 AV	54.0	-1.2	1.01 V	305	46.70	6.10
3	*5310.00	111.7 PK			1.03 V	2	71.70	40.00
4	*5310.00	102.2 AV			1.03 V	2	62.20	40.00
5	5350.00	71.2 PK	74.0	-2.8	1.05 V	0	64.80	6.40
6	5350.00	52.9 AV	54.0	-1.1	1.05 V	0	46.50	6.40
7	10620.00	62.1 PK	74.0	-11.9	1.01 V	52	42.60	19.50
8	10620.00	48.7 AV	54.0	-5.3	1.01 V	52	29.20	19.50

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.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.3 PK	74.0	-14.7	1.17 H	17	53.20	6.10
2	5000.00	46.5 AV	54.0	-7.5	1.17 H	17	40.40	6.10
3	5460.00	58.5 PK	74.0	-15.5	1.04 H	194	51.80	6.70
4	5460.00	45.9 AV	54.0	-8.1	1.04 H	194	39.20	6.70
5	#5470.00	60.6 PK	74.0	-13.4	1.00 H	189	53.90	6.70
6	#5470.00	46.7 AV	54.0	-7.3	1.00 H	189	40.00	6.70
7	*5510.00	67.9 PK			1.00 H	137	61.20	6.70
8	*5510.00	58.6 AV			1.00 H	137	51.90	6.70
9	11020.00	61.2 PK	74.0	-12.8	1.09 H	98	41.00	20.20
10	11020.00	48.2 AV	54.0	-5.8	1.09 H	98	28.00	20.20
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	5000.00	61.7 PK	74.0	-12.3	1.24 V	298	55.60	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.24 V**	**298**	**46.90**	**6.10**
3	5460.00	62.3 PK	74.0	-11.7	1.00 V	184	55.60	6.70
4	5460.00	48.3 AV	54.0	-5.7	1.00 V	184	41.60	6.70
5	#5470.00	67.6 PK	74.0	-6.4	1.03 V	156	60.90	6.70
6	#5470.00	52.4 AV	54.0	-1.6	1.03 V	156	45.70	6.70
7	*5510.00	112.3 PK			1.00 V	126	72.00	40.30
8	*5510.00	103.0 AV			1.00 V	126	62.70	40.30
9	11020.00	59.9 PK	74.0	-14.1	1.03 V	42	39.70	20.20
10	11020.00	46.3 AV	54.0	-7.7	1.03 V	42	26.10	20.20

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 of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.0 PK	74.0	-15.0	1.18 H	13	52.90	6.10
2	5000.00	47.1 AV	54.0	-6.9	1.18 H	13	41.00	6.10
3	*5550.00	105.8 PK			1.00 H	193	65.50	40.30
4	*5550.00	96.3 AV			1.00 H	193	56.00	40.30
5	11100.00	62.1 PK	74.0	-11.9	1.16 H	302	42.30	19.80
6	11100.00	48.8 AV	54.0	-5.2	1.16 H	302	29.00	19.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.3 PK	74.0	-12.7	1.24 V	297	55.20	6.10
2	**5000.00**	**53.0 AV**	**54.0**	**-1.0**	**1.24 V**	**297**	**46.90**	**6.10**
3	*5550.00	116.5 PK			1.00 V	26	76.20	40.30
4	*5550.00	106.6 AV			1.00 V	26	66.30	40.30
5	11100.00	61.3 PK	74.0	-12.7	1.05 V	98	41.50	19.80
6	11100.00	48.9 AV	54.0	-5.1	1.05 V	98	29.10	19.80

REMARKS:

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

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	58.6 PK	74.0	-15.4	1.06 H	17	52.50	6.10
2	5000.00	46.2 AV	54.0	-7.8	1.06 H	17	40.10	6.10
3	*5670.00	104.0 PK			1.00 H	116	63.60	40.40
4	*5670.00	94.5 AV			1.00 H	116	54.10	40.40
5	#5725.00	59.3 PK	74.0	-14.7	1.12 H	130	52.20	7.10
6	#5725.00	46.4 AV	54.0	-7.6	1.12 H	130	39.30	7.10
7	11340.00	60.7 PK	74.0	-13.3	1.06 H	114	41.20	19.50
8	11340.00	48.2 AV	54.0	-5.8	1.06 H	114	28.70	19.50
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	5000.00	60.6 PK	74.0	-13.4	1.23 V	298	54.50	6.10
2	5000.00	52.8 AV	54.0	-1.2	1.23 V	298	46.70	6.10
3	*5670.00	115.9 PK			1.19 V	127	75.50	40.40
4	*5670.00	106.3 AV			1.19 V	127	65.90	40.40
5	#5725.00	69.6 PK	74.0	-4.4	1.00 V	178	62.50	7.10
6	#5725.00	52.8 AV	54.0	-1.2	1.00 V	178	45.70	7.10
7	11340.00	61.4 PK	74.0	-12.6	1.10 V	259	41.90	19.50
8	11340.00	48.0 AV	54.0	-6.0	1.10 V	259	28.50	19.50

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 of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	59.8 PK	74.0	-14.2	1.08 H	355	53.70	6.10
2	5000.00	49.3 AV	54.0	-4.7	1.08 H	355	43.20	6.10
3	*5290.00	98.1 PK			1.14 H	133	58.10	40.00
4	*5290.00	87.8 AV			1.14 H	133	47.80	40.00
5	5350.00	58.9 PK	74.0	-15.1	1.14 H	192	52.50	6.40
6	5350.00	47.8 AV	54.0	-6.2	1.14 H	192	41.40	6.40
7	#10580.00	61.6 PK	74.0	-12.4	1.24 H	27	42.00	19.60
8	#10580.00	48.6 AV	54.0	-5.4	1.24 H	27	29.00	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	64.2 PK	74.0	-9.8	1.00 V	301	58.10	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.00 V	301	46.80	6.10
3	*5290.00	107.0 PK			1.04 V	5	67.00	40.00
4	*5290.00	96.8 AV			1.04 V	5	56.80	40.00
5	5350.00	71.2 PK	74.0	-2.8	1.04 V	355	64.80	6.40
6	**5350.00**	**53.0 AV**	**54.0**	**-1.0**	**1.04 V**	**355**	**46.60**	**6.40**
7	#10580.00	61.9 PK	74.0	-12.1	1.14 V	257	42.30	19.60
8	#10580.00	48.8 AV	54.0	-5.2	1.14 V	257	29.20	19.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5000.00	58.5 PK	74.0	-15.5	1.16 H	13	52.40	6.10
2	5000.00	46.7 AV	54.0	-7.3	1.16 H	13	40.60	6.10
3	5460.00	57.9 PK	74.0	-16.1	1.10 H	167	51.20	6.70
4	5460.00	46.0 AV	54.0	-8.0	1.10 H	167	39.30	6.70
5	#5470.00	60.6 PK	74.0	-13.4	1.14 H	201	53.90	6.70
6	#5470.00	47.4 AV	54.0	-6.6	1.14 H	201	40.70	6.70
7	*5530.00	97.6 PK			1.00 H	137	57.30	40.30
8	*5530.00	88.0 AV			1.00 H	137	47.70	40.30
9	11060.00	62.0 PK	74.0	-12.0	1.13 H	184	42.00	20.00
10	11060.00	48.1 AV	54.0	-5.9	1.13 H	184	28.10	20.00
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	5000.00	60.7 PK	74.0	-13.3	1.23 V	297	54.60	6.10
2	5000.00	52.7 AV	54.0	-1.3	1.23 V	297	46.60	6.10
3	5460.00	64.8 PK	74.0	-9.2	1.03 V	169	58.10	6.70
4	5460.00	51.1 AV	54.0	-2.9	1.03 V	169	44.40	6.70
5	#5470.00	70.6 PK	74.0	-3.4	1.06 V	182	63.90	6.70
6	#5470.00	52.8 AV	54.0	-1.2	1.06 V	182	46.10	6.70
7	*5530.00	108.8 PK			1.05 V	104	68.50	40.30
8	*5530.00	98.2 AV			1.05 V	104	57.90	40.30
9	11060.00	60.9 PK	74.0	-13.1	1.07 V	264	40.90	20.00
10	11060.00	48.2 AV	54.0	-5.8	1.07 V	264	28.20	20.00

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 of the restricted band.

Radio 2: Patch antenna

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5260.00	117.0 PK			1.00 H	316	77.00	40.00
2	*5260.00	107.7 AV			1.00 H	316	67.70	40.00
3	5420.00	62.1 PK	74.0	-11.9	1.00 H	337	55.50	6.60
4	5420.00	50.1 AV	54.0	-3.9	1.00 H	337	43.50	6.60
5	#10520.00	60.3 PK	74.0	-13.7	1.14 H	243	41.00	19.30
6	#10520.00	47.1 AV	54.0	-6.9	1.14 H	243	27.80	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	118.7 PK			1.00 V	0	78.70	40.00
2	*5260.00	108.7 AV			1.00 V	0	68.70	40.00
3	5420.00	64.3 PK	74.0	-9.7	1.08 V	15	57.70	6.60
4	5420.00	52.8 AV	54.0	-1.2	1.08 V	15	46.20	6.60
5	#10520.00	60.0 PK	74.0	-14.0	1.00 V	108	40.70	19.30
6	#10520.00	46.9 AV	54.0	-7.1	1.00 V	108	27.60	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	116.1 PK			1.00 H	326	76.10	40.00
2	*5300.00	105.8 AV			1.00 H	326	65.80	40.00
3	5460.00	61.3 PK	74.0	-12.7	1.00 H	350	54.60	6.70
4	5460.00	49.2 AV	54.0	-4.8	1.00 H	350	42.50	6.70
5	10600.00	61.4 PK	74.0	-12.6	1.00 H	119	41.80	19.60
6	10600.00	48.0 AV	54.0	-6.0	1.00 H	119	28.40	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	118.1 PK			1.00 V	357	78.10	40.00
2	*5300.00	108.3 AV			1.00 V	357	68.30	40.00
3	5460.00	62.7 PK	74.0	-11.3	1.00 V	23	56.00	6.70
4	5460.00	52.2 AV	54.0	-1.8	1.00 V	23	45.50	6.70
5	10600.00	61.3 PK	74.0	-12.7	1.00 V	243	41.70	19.60
6	10600.00	48.2 AV	54.0	-5.8	1.00 V	243	28.60	19.60

REMARKS:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5320.00	117.4 PK			1.00 H	329	77.40	40.00
2	*5320.00	107.2 AV			1.00 H	329	67.20	40.00
3	5350.00	64.5 PK	74.0	-9.5	1.00 H	329	58.10	6.40
4	5350.00	49.4 AV	54.0	-4.6	1.00 H	329	43.00	6.40
5	10640.00	60.4 PK	74.0	-13.6	1.15 H	164	40.90	19.50
6	10640.00	47.3 AV	54.0	-6.7	1.15 H	164	27.80	19.50
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	*5320.00	118.3 PK			1.00 V	359	78.30	40.00
2	*5320.00	108.4 AV			1.00 V	359	68.40	40.00
3	5350.00	65.3 PK	74.0	-8.7	1.07 V	9	58.90	6.40
4	5350.00	51.4 AV	54.0	-2.6	1.07 V	9	45.00	6.40
5	10640.00	60.6 PK	74.0	-13.4	1.00 V	194	41.10	19.50
6	10640.00	47.7 AV	54.0	-6.3	1.00 V	194	28.20	19.50

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	63.1 PK	74.0	-10.9	1.00 H	312	56.40	6.70
2	5460.00	47.9 AV	54.0	-6.1	1.00 H	312	41.20	6.70
3	#5470.00	65.8 PK	74.0	-8.2	1.00 H	330	59.10	6.70
4	#5470.00	50.3 AV	54.0	-3.7	1.00 H	330	43.60	6.70
5	*5500.00	119.8 PK			1.00 H	357	79.50	40.30
6	*5500.00	109.5 AV			1.00 H	357	69.20	40.30
7	11000.00	59.1 PK	74.0	-14.9	1.20 H	96	38.80	20.30
8	11000.00	46.4 AV	54.0	-7.6	1.20 H	96	26.10	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.5 PK	74.0	-10.5	1.00 V	320	56.80	6.70
2	5460.00	48.5 AV	54.0	-5.5	1.00 V	320	41.80	6.70
3	#5470.00	68.8 PK	74.0	-5.2	1.01 V	332	62.10	6.70
4	#5470.00	51.7 AV	54.0	-2.3	1.01 V	332	45.00	6.70
5	*5500.00	118.5 PK			1.12 V	320	78.20	40.30
6	*5500.00	109.2 AV			1.12 V	320	68.90	40.30
7	11000.00	58.8 PK	74.0	-15.2	1.00 V	240	38.50	20.30
8	11000.00	45.9 AV	54.0	-8.1	1.00 V	240	25.60	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5580.00	117.8 PK			1.00 H	355	77.50	40.30
2	*5580.00	107.6 AV			1.00 H	355	67.30	40.30
3	#5740.00	61.5 PK	68.2	-6.7	1.03 H	319	54.40	7.10
4	11160.00	58.7 PK	74.0	-15.3	1.17 H	211	38.80	19.90
5	11160.00	45.9 AV	54.0	-8.1	1.17 H	211	26.00	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	119.4 PK			1.01 V	337	79.10	40.30
2	*5580.00	110.2 AV			1.01 V	337	69.90	40.30
3	#5740.00	65.9 PK	68.2	-2.3	1.00 V	348	58.80	7.10
4	11160.00	59.4 PK	74.0	-14.6	1.00 V	221	39.50	19.90
5	11160.00	46.2 AV	54.0	-7.8	1.00 V	221	26.30	19.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5700.00	115.2 PK			1.00 H	22	74.70	40.50
2	*5700.00	105.5 AV			1.00 H	22	65.00	40.50
3	#5725.00	63.5 PK	74.0	-10.5	1.00 H	331	56.40	7.10
4	#5725.00	49.9 AV	54.0	-4.1	1.00 H	331	42.80	7.10
5	11400.00	58.3 PK	74.0	-15.7	1.23 H	118	39.40	18.90
6	11400.00	45.7 AV	54.0	-8.3	1.23 H	118	26.80	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	119.2 PK			1.00 V	348	78.70	40.50
2	*5700.00	109.9 AV			1.00 V	348	69.40	40.50
3	#5725.00	67.8 PK	74.0	-6.2	1.00 V	349	60.70	7.10
4	#5725.00	52.9 AV	54.0	-1.1	1.00 V	349	45.80	7.10
5	11400.00	58.5 PK	74.0	-15.5	1.00 V	243	39.60	18.90
6	11400.00	45.7 AV	54.0	-8.3	1.00 V	243	26.80	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 52	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5260.00	117.5 PK			1.00 H	314	77.50	40.00
2	*5260.00	106.8 AV			1.00 H	314	66.80	40.00
3	5420.00	61.6 PK	74.0	-12.4	1.00 H	337	55.00	6.60
4	5420.00	50.3 AV	54.0	-3.7	1.00 H	337	43.70	6.60
5	#10520.00	60.1 PK	74.0	-13.9	1.11 H	213	40.80	19.30
6	#10520.00	46.9 AV	54.0	-7.1	1.11 H	213	27.60	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5260.00	118.7 PK			1.00 V	0	78.70	40.00
2	*5260.00	109.3 AV			1.00 V	0	69.30	40.00
3	5420.00	63.5 PK	74.0	-10.5	1.00 V	13	56.90	6.60
4	5420.00	52.5 AV	54.0	-1.5	1.00 V	13	45.90	6.60
5	#10520.00	59.8 PK	74.0	-14.2	1.00 V	116	40.50	19.30
6	#10520.00	47.0 AV	54.0	-7.0	1.00 V	116	27.70	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5300.00	116.6 PK			1.01 H	332	76.60	40.00
2	*5300.00	105.8 AV			1.01 H	332	65.80	40.00
3	5450.00	60.3 PK	74.0	-13.7	1.00 H	0	53.60	6.70
4	5450.00	48.9 AV	54.0	-5.1	1.00 H	0	42.20	6.70
5	10600.00	61.4 PK	74.0	-12.6	1.18 H	211	41.80	19.60
6	10600.00	48.4 AV	54.0	-5.6	1.18 H	211	28.80	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	118.1 PK			1.00 V	0	78.10	40.00
2	*5300.00	108.4 AV			1.00 V	0	68.40	40.00
3	5450.00	64.2 PK	74.0	-9.8	1.07 V	20	57.50	6.70
4	5450.00	52.2 AV	54.0	-1.8	1.07 V	20	45.50	6.70
5	10600.00	61.4 PK	74.0	-12.6	1.00 V	124	41.80	19.60
6	10600.00	48.1 AV	54.0	-5.9	1.00 V	124	28.50	19.60

REMARKS:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5320.00	116.8 PK			1.00 H	326	76.80	40.00
2	*5320.00	106.4 AV			1.00 H	326	66.40	40.00
3	5350.00	65.7 PK	74.0	-8.3	1.00 H	340	59.30	6.40
4	5350.00	49.0 AV	54.0	-5.0	1.00 H	340	42.60	6.40
5	10640.00	60.5 PK	74.0	-13.5	1.18 H	243	41.00	19.50
6	10640.00	47.1 AV	54.0	-6.9	1.18 H	243	27.60	19.50
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	*5320.00	119.4 PK			1.00 V	0	79.40	40.00
2	*5320.00	108.9 AV			1.00 V	0	68.90	40.00
3	5350.00	65.9 PK	74.0	-8.1	1.07 V	0	59.50	6.40
4	5350.00	51.1 AV	54.0	-2.9	1.07 V	0	44.70	6.40
5	10640.00	59.7 PK	74.0	-14.3	1.00 V	105	40.20	19.50
6	10640.00	47.1 AV	54.0	-6.9	1.00 V	105	27.60	19.50

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	62.7 PK	74.0	-11.3	1.05 H	315	56.00	6.70
2	5460.00	47.7 AV	54.0	-6.3	1.05 H	315	41.00	6.70
3	#5470.00	66.3 PK	74.0	-7.7	1.00 H	328	59.60	6.70
4	#5470.00	50.6 AV	54.0	-3.4	1.00 H	328	43.90	6.70
5	*5500.00	120.5 PK			1.00 H	353	80.20	40.30
6	*5500.00	109.1 AV			1.00 H	353	68.80	40.30
7	11000.00	59.4 PK	74.0	-14.6	1.22 H	125	39.10	20.30
8	11000.00	46.4 AV	54.0	-7.6	1.22 H	125	26.10	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.7 PK	74.0	-11.3	1.08 V	302	56.00	6.70
2	5460.00	47.5 AV	54.0	-6.5	1.08 V	302	40.80	6.70
3	#5470.00	69.4 PK	74.0	-4.6	1.11 V	322	62.70	6.70
4	#5470.00	51.2 AV	54.0	-2.8	1.11 V	322	44.50	6.70
5	*5500.00	118.6 PK			1.12 V	320	78.30	40.30
6	*5500.00	108.9 AV			1.12 V	320	68.60	40.30
7	11000.00	59.4 PK	74.0	-14.6	1.00 V	243	39.10	20.30
8	11000.00	46.0 AV	54.0	-8.0	1.00 V	243	25.70	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	117.8 PK			1.00 H	0	77.50	40.30
2	*5580.00	107.0 AV			1.00 H	0	66.70	40.30
3	#5740.00	60.8 PK	68.2	-7.4	1.12 H	318	53.70	7.10
4	11160.00	60.1 PK	74.0	-13.9	1.41 H	122	40.20	19.90
5	11160.00	46.6 AV	54.0	-7.4	1.41 H	122	26.70	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	120.1 PK			1.22 V	338	79.80	40.30
2	*5580.00	109.3 AV			1.22 V	338	69.00	40.30
3	#5740.00	65.9 PK	68.2	-2.3	1.00 V	347	58.80	7.10
4	11160.00	60.5 PK	74.0	-13.5	1.00 V	305	40.60	19.90
5	11160.00	46.7 AV	54.0	-7.3	1.00 V	305	26.80	19.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5700.00	116.2 PK			1.00 H	20	75.70	40.50
2	*5700.00	104.3 AV			1.00 H	20	63.80	40.50
3	#5725.00	64.3 PK	74.0	-9.7	1.00 H	321	57.20	7.10
4	#5725.00	48.8 AV	54.0	-5.2	1.00 H	321	41.70	7.10
5	11400.00	59.5 PK	74.0	-14.5	1.22 H	138	40.60	18.90
6	11400.00	46.3 AV	54.0	-7.7	1.22 H	138	27.40	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	118.5 PK			1.00 V	348	78.00	40.50
2	*5700.00	108.7 AV			1.00 V	348	68.20	40.50
3	#5725.00	67.4 PK	74.0	-6.6	1.00 V	0	60.30	7.10
4	#5725.00	52.4 AV	54.0	-1.6	1.00 V	0	45.30	7.10
5	11400.00	58.0 PK	74.0	-16.0	1.00 V	241	39.10	18.90
6	11400.00	45.8 AV	54.0	-8.2	1.00 V	241	26.90	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5270.00	114.5 PK			1.00 H	312	74.50	40.00
2	*5270.00	104.1 AV			1.00 H	312	64.10	40.00
3	5430.00	60.3 PK	74.0	-13.7	1.00 H	336	53.70	6.60
4	5430.00	49.1 AV	54.0	-4.9	1.00 H	336	42.50	6.60
5	#10540.00	60.7 PK	74.0	-13.3	1.16 H	211	41.40	19.30
6	#10540.00	47.3 AV	54.0	-6.7	1.16 H	211	28.00	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	115.1 PK			1.00 V	354	75.10	40.00
2	*5270.00	105.9 AV			1.00 V	354	65.90	40.00
3	5430.00	63.7 PK	74.0	-10.3	1.07 V	6	57.10	6.60
4	5430.00	52.2 AV	54.0	-1.8	1.07 V	6	45.60	6.60
5	#10540.00	60.5 PK	74.0	-13.5	1.00 V	211	41.20	19.30
6	#10540.00	47.3 AV	54.0	-6.7	1.00 V	211	28.00	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5310.00	110.2 PK			1.02 H	335	70.20	40.00
2	*5310.00	99.5 AV			1.02 H	335	59.50	40.00
3	5350.00	64.7 PK	74.0	-9.3	1.00 H	331	58.30	6.40
4	5350.00	50.9 AV	54.0	-3.1	1.00 H	331	44.50	6.40
5	10620.00	60.8 PK	74.0	-13.2	1.11 H	244	41.30	19.50
6	10620.00	47.7 AV	54.0	-6.3	1.11 H	244	28.20	19.50
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	*5310.00	112.1 PK			1.00 V	1	72.10	40.00
2	*5310.00	102.2 AV			1.00 V	1	62.20	40.00
3	5350.00	66.5 PK	74.0	-7.5	1.00 V	10	60.10	6.40
4	5350.00	52.9 AV	54.0	-1.1	1.00 V	10	46.50	6.40
5	10620.00	60.8 PK	74.0	-13.2	1.01 V	122	41.30	19.50
6	10620.00	47.8 AV	54.0	-6.2	1.01 V	122	28.30	19.50

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.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	62.9 PK	74.0	-11.1	1.01 H	10	56.20	6.70
2	5460.00	48.1 AV	54.0	-5.9	1.01 H	10	41.40	6.70
3	#5470.00	67.6 PK	74.0	-6.4	1.00 H	0	60.90	6.70
4	#5470.00	52.2 AV	54.0	-1.8	1.00 H	0	45.50	6.70
5	*5510.00	114.9 PK			1.00 H	0	74.60	40.30
6	*5510.00	103.2 AV			1.00 H	0	62.90	40.30
7	11020.00	60.0 PK	74.0	-14.0	1.22 H	104	39.80	20.20
8	11020.00	46.5 AV	54.0	-7.5	1.22 H	104	26.30	20.20
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	5460.00	62.0 PK	74.0	-12.0	1.01 V	20	55.30	6.70
2	5460.00	48.3 AV	54.0	-5.7	1.01 V	20	41.60	6.70
3	#5470.00	68.6 PK	74.0	-5.4	1.08 V	25	61.90	6.70
4	#5470.00	52.7 AV	54.0	-1.3	1.08 V	25	46.00	6.70
5	*5510.00	112.6 PK			1.12 V	324	72.30	40.30
6	*5510.00	102.7 AV			1.12 V	324	62.40	40.30
7	11020.00	59.5 PK	74.0	-14.5	1.00 V	215	39.30	20.20
8	11020.00	46.2 AV	54.0	-7.8	1.00 V	215	26.00	20.20

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 of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5550.00	117.1 PK			1.00 H	352	76.80	40.30
2	*5550.00	105.9 AV			1.00 H	352	65.60	40.30
3	#5725.00	59.5 PK	74.0	-14.5	1.00 H	314	52.40	7.10
4	#5725.00	47.1 AV	54.0	-6.9	1.00 H	314	40.00	7.10
5	11100.00	60.2 PK	74.0	-13.8	1.17 H	116	40.40	19.80
6	11100.00	47.1 AV	54.0	-6.9	1.17 H	116	27.30	19.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	115.6 PK			1.00 V	322	75.30	40.30
2	*5550.00	105.8 AV			1.00 V	322	65.50	40.30
3	#5725.00	63.8 PK	74.0	-10.2	1.00 V	353	56.70	7.10
4	#5725.00	52.4 AV	54.0	-1.6	1.00 V	353	45.30	7.10
5	11100.00	60.3 PK	74.0	-13.7	1.03 V	216	40.50	19.80
6	11100.00	46.8 AV	54.0	-7.2	1.03 V	216	27.00	19.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	114.5 PK			1.00 H	7	74.10	40.40
2	*5670.00	103.1 AV			1.00 H	7	62.70	40.40
3	#5725.00	62.6 PK	74.0	-11.4	1.05 H	2	55.50	7.10
4	#5725.00	48.7 AV	54.0	-5.3	1.05 H	2	41.60	7.10
5	11340.00	59.7 PK	74.0	-14.3	1.14 H	131	40.20	19.50
6	11340.00	46.7 AV	54.0	-7.3	1.14 H	131	27.20	19.50
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	*5670.00	116.6 PK			1.00 V	342	76.20	40.40
2	*5670.00	106.7 AV			1.00 V	342	66.30	40.40
3	#5725.00	66.5 PK	74.0	-7.5	1.00 V	0	59.40	7.10
4	#5725.00	52.8 AV	54.0	-1.2	1.00 V	0	45.70	7.10
5	11340.00	59.9 PK	74.0	-14.1	1.00 V	216	40.40	19.50
6	11340.00	45.9 AV	54.0	-8.1	1.00 V	216	26.40	19.50

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 of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5290.00	105.6 PK			1.00 H	323	65.60	40.00
2	*5290.00	94.6 AV			1.00 H	323	54.60	40.00
3	5350.00	67.7 PK	74.0	-6.3	1.00 H	338	61.30	6.40
4	5350.00	50.4 AV	54.0	-3.6	1.00 H	338	44.00	6.40
5	#10580.00	61.3 PK	74.0	-12.7	1.00 H	106	41.70	19.60
6	#10580.00	48.2 AV	54.0	-5.8	1.00 H	106	28.60	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	107.3 PK			1.00 V	358	67.30	40.00
2	*5290.00	97.3 AV			1.00 V	358	57.30	40.00
3	5350.00	67.5 PK	74.0	-6.5	1.00 V	1	61.10	6.40
4	5350.00	52.8 AV	54.0	-1.2	1.00 V	1	46.40	6.40
5	#10580.00	61.3 PK	74.0	-12.7	1.00 V	243	41.70	19.60
6	#10580.00	48.7 AV	54.0	-5.3	1.00 V	243	29.10	19.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	67.8 PK	74.0	-6.2	1.00 H	324	61.10	6.70
2	5460.00	52.1 AV	54.0	-1.9	1.00 H	324	45.40	6.70
3	#5470.00	70.9 PK	74.0	-3.1	1.00 H	349	64.20	6.70
4	#5470.00	52.4 AV	54.0	-1.6	1.00 H	349	45.70	6.70
5	*5530.00	110.1 PK			1.00 H	0	69.80	40.30
6	*5530.00	98.2 AV			1.00 H	0	57.90	40.30
7	11060.00	59.6 PK	74.0	-14.4	1.21 H	108	39.60	20.00
8	11060.00	47.1 AV	54.0	-6.9	1.21 H	108	27.10	20.00
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	5460.00	65.2 PK	74.0	-8.8	1.00 V	31	58.50	6.70
2	5460.00	50.0 AV	54.0	-4.0	1.00 V	31	43.30	6.70
3	#5470.00	70.0 PK	74.0	-4.0	1.00 V	25	63.30	6.70
4	#5470.00	52.2 AV	54.0	-1.8	1.00 V	25	45.50	6.70
5	*5530.00	109.1 PK			1.01 V	325	68.80	40.30
6	*5530.00	98.8 AV			1.01 V	325	58.50	40.30
7	11060.00	60.0 PK	74.0	-14.0	1.00 V	204	40.00	20.00
8	11060.00	46.8 AV	54.0	-7.2	1.00 V	204	26.80	20.00

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 of the restricted band.

Radio 2: Sector antenna

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5260.00	118.3 PK			1.00 H	353	78.30	40.00
2	*5260.00	108.7 AV			1.00 H	353	68.70	40.00
3	5415.00	62.7 PK	74.0	-11.3	1.00 H	354	56.10	6.60
4	5415.00	51.2 AV	54.0	-2.8	1.00 H	354	44.60	6.60
5	#5698.00	63.5 PK	68.2	-4.7	1.00 H	0	56.40	7.10
6	#10520.00	60.2 PK	74.0	-13.8	1.21 H	105	40.90	19.30
7	#10520.00	47.4 AV	54.0	-6.6	1.21 H	105	28.10	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	115.9 PK			1.22 V	333	75.90	40.00
2	*5260.00	106.0 AV			1.22 V	333	66.00	40.00
3	5415.00	64.2 PK	74.0	-9.8	1.00 V	339	57.60	6.60
4	5415.00	52.4 AV	54.0	-1.6	1.00 V	339	45.80	6.60
5	#5698.00	49.9 PK	68.2	-18.3	1.02 V	0	42.80	7.10
6	#10520.00	60.5 PK	74.0	-13.5	1.05 V	221	41.20	19.30
7	#10520.00	47.5 AV	54.0	-6.5	1.05 V	221	28.20	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5300.00	118.0 PK			1.06 H	0	78.00	40.00
2	*5300.00	108.0 AV			1.06 H	0	68.00	40.00
3	5455.00	62.1 PK	74.0	-11.9	1.06 H	344	55.40	6.70
4	5455.00	50.8 AV	54.0	-3.2	1.06 H	344	44.10	6.70
5	#5742.00	62.8 PK	68.2	-5.4	1.00 H	0	55.70	7.10
6	10600.00	61.2 PK	74.0	-12.8	1.15 H	132	41.60	19.60
7	10600.00	48.0 AV	54.0	-6.0	1.15 H	132	28.40	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.3 PK			1.10 V	337	76.30	40.00
2	*5300.00	106.3 AV			1.10 V	337	66.30	40.00
3	5455.00	64.7 PK	74.0	-9.3	1.00 V	340	58.00	6.70
4	5455.00	52.7 AV	54.0	-1.3	1.00 V	340	46.00	6.70
5	#5742.00	61.1 PK	68.2	-7.1	1.09 V	0	54.00	7.10
6	10600.00	61.2 PK	74.0	-12.8	1.03 V	253	41.60	19.60
7	10600.00	48.1 AV	54.0	-5.9	1.03 V	253	28.50	19.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5320.00	120.2 PK			1.00 H	355	80.20	40.00
2	*5320.00	110.1 AV			1.00 H	355	70.10	40.00
3	5400.00	62.9 PK	74.0	-11.1	1.03 H	0	56.30	6.60
4	5400.00	50.8 AV	54.0	-3.2	1.03 H	0	44.20	6.60
5	#5480.00	63.2 PK	68.2	-5.0	1.00 H	0	56.50	6.70
6	#5763.00	63.4 PK	68.2	-4.8	1.00 H	1	56.30	7.10
7	10640.00	59.7 PK	74.0	-14.3	1.19 H	252	40.20	19.50
8	10640.00	46.5 AV	54.0	-7.5	1.19 H	252	27.00	19.50
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	*5320.00	118.2 PK			1.09 V	336	78.20	40.00
2	*5320.00	108.3 AV			1.09 V	336	68.30	40.00
3	5400.00	62.9 PK	74.0	-11.1	1.00 V	340	56.30	6.60
4	5400.00	51.2 AV	54.0	-2.8	1.00 V	340	44.60	6.60
5	#5480.00	65.2 PK	68.2	-3.0	1.08 V	340	58.50	6.70
6	#5763.00	60.0 PK	68.2	-8.2	1.10 V	1	52.90	7.10
7	10640.00	60.6 PK	74.0	-13.4	1.00 V	249	41.10	19.50
8	10640.00	47.4 AV	54.0	-6.6	1.00 V	249	27.90	19.50

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 of the restricted band.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5040.00	61.8 PK	74.0	-12.2	1.00 H	343	55.70	6.10
2	5040.00	51.0 AV	54.0	-3.0	1.00 H	343	44.90	6.10
3	5460.00	60.6 PK	74.0	-13.4	1.00 H	0	53.90	6.70
4	5460.00	47.9 AV	54.0	-6.1	1.00 H	0	41.20	6.70
5	#5470.00	61.0 PK	74.0	-13.0	1.00 H	0	54.30	6.70
6	#5470.00	47.8 AV	54.0	-6.2	1.00 H	0	41.10	6.70
7	*5500.00	119.6 PK			1.00 H	0	79.30	40.30
8	*5500.00	109.7 AV			1.00 H	0	69.40	40.30
9	#5958.00	60.7 PK	74.0	-13.3	1.01 H	7	53.50	7.20
10	#5958.00	51.5 AV	54.0	-2.5	1.01 H	7	44.30	7.20
11	11000.00	58.3 PK	74.0	-15.7	1.14 H	127	38.00	20.30
12	11000.00	45.9 AV	54.0	-8.1	1.14 H	127	25.60	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	61.3 PK	74.0	-12.7	1.10 V	0	55.20	6.10
2	5040.00	49.0 AV	54.0	-5.0	1.10 V	0	42.90	6.10
3	5460.00	60.2 PK	74.0	-13.8	1.08 V	2	53.50	6.70
4	5460.00	47.1 AV	54.0	-6.9	1.08 V	2	40.40	6.70
5	#5470.00	60.9 PK	74.0	-13.1	1.00 V	54	54.20	6.70
6	#5470.00	47.2 AV	54.0	-6.8	1.00 V	54	40.50	6.70
7	*5500.00	117.3 PK			1.00 V	336	77.00	40.30
8	*5500.00	107.6 AV			1.00 V	336	67.30	40.30
9	#5958.00	60.6 PK	74.0	-13.4	1.14 V	356	53.40	7.20
10	#5958.00	48.9 AV	54.0	-5.1	1.14 V	356	41.70	7.20
11	11000.00	58.8 PK	74.0	-15.2	1.00 V	322	38.50	20.30
12	11000.00	45.9 AV	54.0	-8.1	1.00 V	322	25.60	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5110.00	62.5 PK	74.0	-11.5	1.00 H	346	56.20	6.30
2	5110.00	50.8 AV	54.0	-3.2	1.00 H	346	44.50	6.30
3	5420.00	62.8 PK	74.0	-11.2	1.06 H	0	56.20	6.60
4	5420.00	51.3 AV	54.0	-2.7	1.06 H	0	44.70	6.60
5	#5470.00	60.1 PK	74.0	-13.9	1.05 H	0	53.40	6.70
6	#5470.00	47.4 AV	54.0	-6.6	1.05 H	0	40.70	6.70
7	*5580.00	119.8 PK			1.01 H	358	79.50	40.30
8	*5580.00	109.7 AV			1.01 H	358	69.40	40.30
9	#5812.00	63.9 PK	68.2	-4.3	1.00 H	7	56.80	7.10
10	11160.00	59.2 PK	74.0	-14.8	1.10 H	254	39.30	19.90
11	11160.00	46.4 AV	54.0	-7.6	1.10 H	254	26.50	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5110.00	60.5 PK	74.0	-13.5	1.19 V	351	54.20	6.30
2	5110.00	48.8 AV	54.0	-5.2	1.19 V	351	42.50	6.30
3	5420.00	59.5 PK	74.0	-14.5	1.11 V	0	52.90	6.60
4	5420.00	47.0 AV	54.0	-7.0	1.11 V	0	40.40	6.60
5	#5470.00	59.5 PK	74.0	-14.5	1.06 V	8	52.80	6.70
6	#5470.00	47.3 AV	54.0	-6.7	1.06 V	8	40.60	6.70
7	*5580.00	116.9 PK			1.00 V	350	76.60	40.30
8	*5580.00	107.5 AV			1.00 V	350	67.20	40.30
9	#5812.00	62.5 PK	68.2	-5.7	1.16 V	356	55.40	7.10
10	11160.00	60.7 PK	74.0	-13.3	1.17 V	121	40.80	19.90
11	11160.00	46.9 AV	54.0	-7.1	1.17 V	121	27.00	19.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5700.00	119.5 PK			1.00 H	7	79.00	40.50
2	*5700.00	109.7 AV			1.00 H	7	69.20	40.50
3	#5725.00	66.4 PK	68.2	-1.8	1.00 H	6	59.30	7.10
4	#5937.00	63.4 PK	68.2	-4.8	1.04 H	10	56.20	7.20
5	11400.00	58.5 PK	74.0	-15.5	1.14 H	221	39.60	18.90
6	11400.00	45.9 AV	54.0	-8.1	1.14 H	221	27.00	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.4 PK			1.17 V	343	75.90	40.50
2	*5700.00	107.0 AV			1.17 V	343	66.50	40.50
3	#5725.00	61.7 PK	68.2	-6.5	1.00 V	3	54.60	7.10
4	#5937.00	60.6 PK	68.2	-7.6	1.11 V	349	53.40	7.20
5	11400.00	58.9 PK	74.0	-15.1	1.00 V	103	40.00	18.90
6	11400.00	45.9 AV	54.0	-8.1	1.00 V	103	27.00	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5260.00	119.3 PK			1.00 H	0	79.30	40.00
2	*5260.00	108.2 AV			1.00 H	0	68.20	40.00
3	5420.00	61.1 PK	74.0	-12.9	1.00 H	355	54.50	6.60
4	5420.00	50.4 AV	54.0	-3.6	1.00 H	355	43.80	6.60
5	#5698.00	63.4 PK	68.2	-4.8	1.00 H	0	56.30	7.10
6	#10520.00	59.5 PK	74.0	-14.5	1.16 H	241	40.20	19.30
7	#10520.00	46.7 AV	54.0	-7.3	1.16 H	241	27.40	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	115.8 PK			1.02 V	0	75.80	40.00
2	*5260.00	105.5 AV			1.02 V	0	65.50	40.00
3	5420.00	63.4 PK	74.0	-10.6	1.00 V	345	56.80	6.60
4	5420.00	52.6 AV	54.0	-1.4	1.00 V	345	46.00	6.60
5	#5698.00	49.0 PK	68.2	-19.2	1.02 V	7	41.90	7.10
6	#10520.00	58.7 PK	74.0	-15.3	1.00 V	105	39.40	19.30
7	#10520.00	45.8 AV	54.0	-8.2	1.00 V	105	26.50	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5300.00	118.9 PK			1.07 H	0	78.90	40.00
2	*5300.00	107.8 AV			1.07 H	0	67.80	40.00
3	5460.00	62.0 PK	74.0	-12.0	1.05 H	354	55.30	6.70
4	5460.00	50.7 AV	54.0	-3.3	1.05 H	354	44.00	6.70
5	#5741.00	63.7 PK	68.2	-4.5	1.00 H	5	56.60	7.10
6	10600.00	61.8 PK	74.0	-12.2	1.24 H	164	42.20	19.60
7	10600.00	48.2 AV	54.0	-5.8	1.24 H	164	28.60	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.7 PK			1.21 V	343	76.70	40.00
2	*5300.00	116.8 PK			1.09 V	332	76.80	40.00
3	*5300.00	106.7 AV			1.21 V	343	66.70	40.00
4	*5300.00	106.5 AV			1.09 V	332	66.50	40.00
5	5460.00	63.9 PK	74.0	-10.1	1.26 V	5	57.20	6.70
6	5460.00	52.8 AV	54.0	-1.2	1.26 V	5	46.10	6.70
7	#5741.00	59.9 PK	68.2	-8.3	1.09 V	0	52.80	7.10
8	10600.00	61.6 PK	74.0	-12.4	1.00 V	184	42.00	19.60
9	10600.00	48.2 AV	54.0	-5.8	1.00 V	184	28.60	19.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5320.00	120.8 PK			1.00 H	351	80.80	40.00
2	*5320.00	109.6 AV			1.00 H	351	69.60	40.00
3	5400.00	63.0 PK	74.0	-11.0	1.12 H	354	56.40	6.60
4	5400.00	50.6 AV	54.0	-3.4	1.12 H	354	44.00	6.60
5	#5480.00	63.3 PK	68.2	-4.9	1.10 H	0	56.60	6.70
6	#5763.00	64.0 PK	68.2	-4.2	1.02 H	4	56.90	7.10
7	10640.00	60.9 PK	74.0	-13.1	1.11 H	102	41.40	19.50
8	10640.00	47.5 AV	54.0	-6.5	1.11 H	102	28.00	19.50
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	*5320.00	117.9 PK			1.13 V	340	77.90	40.00
2	*5320.00	108.1 AV			1.13 V	340	68.10	40.00
3	5400.00	62.7 PK	74.0	-11.3	1.18 V	6	56.10	6.60
4	5400.00	50.5 AV	54.0	-3.5	1.18 V	6	43.90	6.60
5	#5480.00	65.2 PK	68.2	-3.0	1.00 V	348	58.50	6.70
6	#5763.00	59.3 PK	68.2	-8.9	1.02 V	0	52.20	7.10
7	10640.00	60.6 PK	74.0	-13.4	1.03 V	221	41.10	19.50
8	10640.00	47.7 AV	54.0	-6.3	1.03 V	221	28.20	19.50

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 of the restricted band.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5040.00	62.3 PK	74.0	-11.7	1.00 H	349	56.20	6.10
2	5040.00	51.3 AV	54.0	-2.7	1.00 H	349	45.20	6.10
3	5420.00	61.1 PK	74.0	-12.9	1.10 H	356	54.50	6.60
4	5420.00	49.8 AV	54.0	-4.2	1.10 H	356	43.20	6.60
5	#5470.00	62.5 PK	74.0	-11.5	1.08 H	359	55.80	6.70
6	#5470.00	49.1 AV	54.0	-4.9	1.08 H	359	42.40	6.70
7	*5500.00	120.4 PK			1.00 H	0	80.10	40.30
8	*5500.00	109.3 AV			1.00 H	0	69.00	40.30
9	#5958.00	61.7 PK	68.2	-6.5	1.00 H	8	54.50	7.20
10	11000.00	59.6 PK	74.0	-14.4	1.18 H	94	39.30	20.30
11	11000.00	46.0 AV	54.0	-8.0	1.18 H	94	25.70	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	60.1 PK	74.0	-13.9	1.09 V	350	54.00	6.10
2	5040.00	48.7 AV	54.0	-5.3	1.09 V	350	42.60	6.10
3	5420.00	60.1 PK	74.0	-13.9	1.18 V	4	53.50	6.60
4	5420.00	47.6 AV	54.0	-6.4	1.18 V	4	41.00	6.60
5	#5470.00	61.0 PK	74.0	-13.0	1.13 V	8	54.30	6.70
6	#5470.00	47.8 AV	54.0	-6.2	1.13 V	8	41.10	6.70
7	*5500.00	117.0 PK			1.00 V	346	76.70	40.30
8	*5500.00	107.4 AV			1.00 V	346	67.10	40.30
9	#5958.00	60.1 PK	68.2	-8.1	1.12 V	0	52.90	7.20
10	11000.00	59.0 PK	74.0	-15.0	1.00 V	243	38.70	20.30
11	11000.00	46.1 AV	54.0	-7.9	1.00 V	243	25.80	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5110.00	61.6 PK	74.0	-12.4	1.00 H	350	55.30	6.30
2	5110.00	50.8 AV	54.0	-3.2	1.00 H	350	44.50	6.30
3	5420.00	62.7 PK	74.0	-11.3	1.01 H	355	56.10	6.60
4	5420.00	51.7 AV	54.0	-2.3	1.01 H	355	45.10	6.60
5	#5470.00	61.2 PK	74.0	-12.8	1.13 H	351	54.50	6.70
6	#5470.00	49.1 AV	54.0	-4.9	1.13 H	351	42.40	6.70
7	*5580.00	120.6 PK			1.03 H	0	80.30	40.30
8	*5580.00	109.4 AV			1.03 H	0	69.10	40.30
9	#5812.00	63.5 PK	68.2	-4.7	1.00 H	357	56.40	7.10
10	11160.00	59.9 PK	74.0	-14.1	1.15 H	94	40.00	19.90
11	11160.00	45.5 AV	54.0	-8.5	1.15 H	94	25.60	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5110.00	59.9 PK	74.0	-14.1	1.17 V	347	53.60	6.30
2	5110.00	49.1 AV	54.0	-4.9	1.17 V	347	42.80	6.30
3	5420.00	59.7 PK	74.0	-14.3	1.18 V	340	53.10	6.60
4	5420.00	47.2 AV	54.0	-6.8	1.18 V	340	40.60	6.60
5	#5470.00	60.4 PK	74.0	-13.6	1.15 V	347	53.70	6.70
6	#5470.00	48.1 AV	54.0	-5.9	1.15 V	347	41.40	6.70
7	*5580.00	116.9 PK			1.00 V	341	76.60	40.30
8	*5580.00	107.4 AV			1.00 V	341	67.10	40.30
9	#5812.00	61.6 PK	68.2	-6.6	1.26 V	342	54.50	7.10
10	11160.00	60.0 PK	74.0	-14.0	1.00 V	264	40.10	19.90
11	11160.00	46.7 AV	54.0	-7.3	1.00 V	264	26.80	19.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	120.1 PK			1.00 H	5	79.60	40.50
2	*5700.00	109.5 AV			1.00 H	5	69.00	40.50
3	#5725.00	66.9 PK	68.2	-1.3	1.00 H	0	59.80	7.10
4	#5937.00	63.8 PK	68.2	-4.4	1.00 H	6	56.60	7.20
5	11400.00	59.6 PK	74.0	-14.4	1.06 H	245	40.70	18.90
6	11400.00	46.0 AV	54.0	-8.0	1.06 H	245	27.10	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.6 PK			1.10 V	354	76.10	40.50
2	*5700.00	106.4 AV			1.10 V	354	65.90	40.50
3	#5725.00	63.2 PK	68.2	-5.0	1.09 V	0	56.10	7.10
4	#5937.00	61.4 PK	68.2	-6.8	1.00 V	0	54.20	7.20
5	11400.00	60.0 PK	74.0	-14.0	1.02 V	78	41.10	18.90
6	11400.00	46.3 AV	54.0	-7.7	1.02 V	78	27.40	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 54	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5270.00	116.8 PK			1.06 H	355	76.80	40.00
2	*5270.00	106.4 AV			1.06 H	355	66.40	40.00
3	5400.00	61.7 PK	74.0	-12.3	1.17 H	0	55.10	6.60
4	5400.00	50.0 AV	54.0	-4.0	1.17 H	0	43.40	6.60
5	#5709.00	61.8 PK	68.2	-6.4	1.00 H	15	54.80	7.00
6	#10540.00	60.5 PK	74.0	-13.5	1.19 H	120	41.20	19.30
7	#10540.00	47.5 AV	54.0	-6.5	1.19 H	120	28.20	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5270.00	115.0 PK			1.14 V	345	75.00	40.00
2	*5270.00	105.1 AV			1.14 V	345	65.10	40.00
3	5420.00	63.4 PK	74.0	-10.6	1.20 V	339	56.80	6.60
4	5420.00	51.8 AV	54.0	-2.2	1.20 V	339	45.20	6.60
5	#5709.00	62.1 PK	68.2	-6.1	1.20 V	347	55.10	7.00
6	#10540.00	60.9 PK	74.0	-13.1	1.00 V	202	41.60	19.30
7	#10540.00	47.4 AV	54.0	-6.6	1.00 V	202	28.10	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5310.00	115.5 PK			1.00 H	351	75.50	40.00
2	*5310.00	104.9 AV			1.00 H	351	64.90	40.00
3	5350.00	64.7 PK	74.0	-9.3	1.03 H	0	58.30	6.40
4	5350.00	52.7 AV	54.0	-1.3	1.03 H	0	46.30	6.40
5	#5752.00	62.3 PK	68.2	-5.9	1.00 H	0	55.10	7.20
6	10620.00	61.2 PK	74.0	-12.8	1.18 H	104	41.70	19.50
7	10620.00	47.9 AV	54.0	-6.1	1.18 H	104	28.40	19.50
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	*5310.00	113.2 PK			1.05 V	342	73.20	40.00
2	*5310.00	103.7 AV			1.05 V	342	63.70	40.00
3	5350.00	65.1 PK	74.0	-8.9	1.02 V	347	58.70	6.40
4	5350.00	51.2 AV	54.0	-2.8	1.02 V	347	44.80	6.40
5	#5752.00	60.0 PK	68.2	-8.2	1.00 V	0	52.80	7.20
6	10620.00	60.8 PK	74.0	-13.2	1.00 V	215	41.30	19.50
7	10620.00	47.7 AV	54.0	-6.3	1.00 V	215	28.20	19.50

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 of the restricted band.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5360.00	60.8 PK	74.0	-13.2	1.00 H	0	54.40	6.40
2	5360.00	48.1 AV	54.0	-5.9	1.00 H	0	41.70	6.40
3	#5470.00	66.8 PK	74.0	-7.2	1.01 H	349	60.10	6.70
4	#5470.00	52.4 AV	54.0	-1.6	1.01 H	349	45.70	6.70
5	*5510.00	115.5 PK			1.00 H	0	75.20	40.30
6	*5510.00	104.4 AV			1.00 H	0	64.10	40.30
7	#5969.00	60.8 PK	68.2	-7.4	1.02 H	8	53.60	7.20
8	11020.00	60.3 PK	74.0	-13.7	1.05 H	102	40.10	20.20
9	11020.00	46.2 AV	54.0	-7.8	1.05 H	102	26.00	20.20
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	5360.00	58.5 PK	74.0	-15.5	1.00 V	340	52.10	6.40
2	5360.00	45.7 AV	54.0	-8.3	1.00 V	340	39.30	6.40
3	#5470.00	62.4 PK	74.0	-11.6	1.04 V	335	55.70	6.70
4	#5470.00	49.7 AV	54.0	-4.3	1.04 V	335	43.00	6.70
5	*5510.00	111.4 PK			1.00 V	8	71.10	40.30
6	*5510.00	102.2 AV			1.00 V	8	61.90	40.30
7	#5969.00	60.0 PK	68.2	-8.2	1.26 V	335	52.80	7.20
8	11020.00	59.1 PK	74.0	-14.9	1.00 V	241	38.90	20.20
9	11020.00	46.4 AV	54.0	-7.6	1.00 V	241	26.20	20.20

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 of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5400.00	61.3 PK	74.0	-12.7	1.00 H	0	54.70	6.60
2	5400.00	49.8 AV	54.0	-4.2	1.00 H	0	43.20	6.60
3	*5550.00	117.8 PK			1.00 H	0	77.50	40.30
4	*5550.00	107.0 AV			1.00 H	0	66.70	40.30
5	#6475.00	56.5 PK	74.0	-17.5	1.00 H	11	45.60	10.90
6	#6475.00	49.9 AV	54.0	-4.1	1.00 H	11	39.00	10.90
7	11100.00	60.1 PK	74.0	-13.9	1.09 H	243	40.30	19.80
8	11100.00	47.3 AV	54.0	-6.7	1.09 H	243	27.50	19.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5400.00	59.4 PK	74.0	-14.6	1.06 V	0	52.80	6.60
2	5400.00	47.6 AV	54.0	-6.4	1.06 V	0	41.00	6.60
3	*5550.00	113.8 PK			1.00 V	342	73.50	40.30
4	*5550.00	104.7 AV			1.00 V	342	64.40	40.30
5	#6475.00	54.5 PK	74.0	-19.5	1.00 V	336	43.60	10.90
6	#6475.00	45.2 AV	54.0	-8.8	1.00 V	336	34.30	10.90
7	11100.00	60.3 PK	74.0	-13.7	1.02 V	69	40.50	19.80
8	11100.00	47.1 AV	54.0	-6.9	1.02 V	69	27.30	19.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	117.1 PK			1.00 H	0	76.70	40.40
2	*5670.00	106.4 AV			1.00 H	0	66.00	40.40
3	#5725.00	63.1 PK	74.0	-10.9	1.00 H	3	56.00	7.10
4	#5725.00	51.5 AV	54.0	-2.5	1.00 H	3	44.40	7.10
5	11340.00	60.4 PK	74.0	-13.6	1.16 H	105	40.90	19.50
6	11340.00	47.2 AV	54.0	-6.8	1.16 H	105	27.70	19.50
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	*5670.00	112.9 PK			1.08 V	0	72.50	40.40
2	*5670.00	103.2 AV			1.08 V	0	62.80	40.40
3	#5725.00	61.2 PK	74.0	-12.8	1.00 V	10	54.10	7.10
4	#5725.00	50.2 AV	54.0	-3.8	1.00 V	10	43.10	7.10
5	11340.00	59.9 PK	74.0	-14.1	1.00 V	303	40.40	19.50
6	11340.00	47.3 AV	54.0	-6.7	1.00 V	303	27.80	19.50

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 of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5290.00	111.7 PK			1.09 H	352	71.70	40.00
2	*5290.00	100.1 AV			1.09 H	352	60.10	40.00
3	5350.00	68.4 PK	74.0	-5.6	1.00 H	356	62.00	6.40
4	5350.00	52.6 AV	54.0	-1.4	1.00 H	356	46.20	6.40
5	#5877.00	67.0 PK	68.2	-1.2	1.00 H	0	59.80	7.20
6	#10580.00	61.7 PK	74.0	-12.3	1.03 H	256	42.10	19.60
7	#10580.00	48.5 AV	54.0	-5.5	1.03 H	256	28.90	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	107.1 PK			1.11 V	329	67.10	40.00
2	*5290.00	97.1 AV			1.11 V	329	57.10	40.00
3	5350.00	66.0 PK	74.0	-8.0	1.00 V	340	59.60	6.40
4	5350.00	50.4 AV	54.0	-3.6	1.00 V	340	44.00	6.40
5	#5877.00	60.5 PK	68.2	-7.7	1.09 V	7	53.30	7.20
6	#10580.00	61.4 PK	74.0	-12.6	1.00 V	101	41.80	19.60
7	#10580.00	48.8 AV	54.0	-5.2	1.00 V	101	29.20	19.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	67.9 PK	74.0	-6.1	1.01 H	350	61.20	6.70
2	5460.00	51.2 AV	54.0	-2.8	1.01 H	350	44.50	6.70
3	#5470.00	70.3 PK	74.0	-3.7	1.00 H	352	63.60	6.70
4	#5470.00	52.7 AV	54.0	-1.3	1.00 H	352	46.00	6.70
5	*5530.00	110.9 PK			1.00 H	0	70.60	40.30
6	*5530.00	99.8 AV			1.00 H	0	59.50	40.30
7	#6144.00	60.6 PK	68.2	-7.6	1.05 H	7	51.80	8.80
8	11060.00	60.5 PK	74.0	-13.5	1.16 H	73	40.50	20.00
9	11060.00	46.7 AV	54.0	-7.3	1.16 H	73	26.70	20.00
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	5460.00	63.6 PK	74.0	-10.4	1.10 V	345	56.90	6.70
2	5460.00	48.6 AV	54.0	-5.4	1.10 V	345	41.90	6.70
3	#5470.00	66.4 PK	74.0	-7.6	1.13 V	348	59.70	6.70
4	#5470.00	50.1 AV	54.0	-3.9	1.13 V	348	43.40	6.70
5	*5530.00	106.6 PK			1.00 V	348	66.30	40.30
6	*5530.00	97.3 AV			1.00 V	348	57.00	40.30
7	#6144.00	57.4 PK	68.2	-10.8	1.22 V	358	48.60	8.80
8	11060.00	60.1 PK	74.0	-13.9	1.00 V	284	40.10	20.00
9	11060.00	46.6 AV	54.0	-7.4	1.00 V	284	26.60	20.00

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 of the restricted band.

Radio 3: PIFA antenna

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5260.00	117.5 PK			1.01 H	350	77.50	40.00
2	*5260.00	107.2 AV			1.01 H	350	67.20	40.00
3	5350.00	66.7 PK	74.0	-7.3	1.00 H	0	60.30	6.40
4	5350.00	48.2 AV	54.0	-5.8	1.00 H	0	41.80	6.40
5	#10520.00	65.1 PK	74.0	-8.9	1.47 H	61	45.80	19.30
6	#10520.00	51.6 AV	54.0	-2.4	1.47 H	61	32.30	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	114.4 PK			1.00 V	38	74.40	40.00
2	*5260.00	105.3 AV			1.00 V	38	65.30	40.00
3	5350.00	62.1 PK	74.0	-11.9	1.00 V	56	55.70	6.40
4	5350.00	46.5 AV	54.0	-7.5	1.00 V	56	40.10	6.40
5	#10520.00	62.3 PK	74.0	-11.7	1.00 V	27	43.00	19.30
6	#10520.00	50.0 AV	54.0	-4.0	1.00 V	27	30.70	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5300.00	114.0 PK			1.12 H	350	74.00	40.00
2	*5300.00	103.8 AV			1.12 H	350	63.80	40.00
3	5350.00	70.3 PK	74.0	-3.7	1.00 H	350	63.90	6.40
4	5350.00	50.5 AV	54.0	-3.5	1.00 H	350	44.10	6.40
5	10600.00	61.2 PK	74.0	-12.8	1.02 H	16	41.60	19.60
6	10600.00	48.9 AV	54.0	-5.1	1.02 H	16	29.30	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	111.8 PK			1.00 V	20	71.80	40.00
2	*5300.00	101.5 AV			1.00 V	20	61.50	40.00
3	5350.00	63.5 PK	74.0	-10.5	1.20 V	59	57.10	6.40
4	5350.00	48.0 AV	54.0	-6.0	1.20 V	59	41.60	6.40
5	10600.00	61.2 PK	74.0	-12.8	1.21 V	302	41.60	19.60
6	10600.00	48.0 AV	54.0	-6.0	1.21 V	302	28.40	19.60

REMARKS:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5320.00	110.0 PK			1.00 H	320	70.00	40.00
2	*5320.00	99.0 AV			1.00 H	320	59.00	40.00
3	5350.00	68.0 PK	74.0	-6.0	1.00 H	350	61.60	6.40
4	5350.00	52.3 AV	54.0	-1.7	1.00 H	350	45.90	6.40
5	10640.00	59.0 PK	74.0	-15.0	1.11 H	106	39.50	19.50
6	10640.00	46.2 AV	54.0	-7.8	1.11 H	106	26.70	19.50
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	*5320.00	107.9 PK			1.00 V	20	67.90	40.00
2	*5320.00	97.3 AV			1.00 V	20	57.30	40.00
3	5350.00	68.0 PK	74.0	-6.0	1.17 V	47	61.60	6.40
4	5350.00	51.6 AV	54.0	-2.4	1.17 V	47	45.20	6.40
5	10640.00	58.6 PK	74.0	-15.4	1.06 V	243	39.10	19.50
6	10640.00	45.8 AV	54.0	-8.2	1.06 V	243	26.30	19.50

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	65.8 PK	74.0	-8.2	1.00 H	6	59.10	6.70
2	5460.00	49.6 AV	54.0	-4.4	1.00 H	6	42.90	6.70
3	#5470.00	72.4 PK	74.0	-1.6	1.00 H	4	65.70	6.70
4	#5470.00	52.0 AV	54.0	-2.0	1.00 H	4	45.30	6.70
5	*5500.00	110.3 PK			1.00 H	4	70.00	40.30
6	*5500.00	100.2 AV			1.00 H	4	59.90	40.30
7	11000.00	59.8 PK	74.0	-14.2	1.09 H	284	39.50	20.30
8	11000.00	46.8 AV	54.0	-7.2	1.09 H	284	26.50	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.5 PK	74.0	-8.5	1.00 V	50	58.80	6.70
2	5460.00	47.8 AV	54.0	-6.2	1.00 V	50	41.10	6.70
3	#5470.00	72.2 PK	74.0	-1.8	1.00 V	55	65.50	6.70
4	#5470.00	51.9 AV	54.0	-2.1	1.00 V	55	45.20	6.70
5	*5500.00	113.4 PK			1.00 V	56	73.10	40.30
6	*5500.00	102.0 AV			1.00 V	56	61.70	40.30
7	11000.00	59.5 PK	74.0	-14.5	1.00 V	42	39.20	20.30
8	11000.00	46.7 AV	54.0	-7.3	1.00 V	42	26.40	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5580.00	114.1 PK			1.18 H	19	73.80	40.30
2	*5580.00	104.3 AV			1.18 H	19	64.00	40.30
3	11160.00	62.0 PK	74.0	-12.0	1.13 H	294	42.10	19.90
4	11160.00	48.7 AV	54.0	-5.3	1.13 H	294	28.80	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	117.2 PK			1.00 V	57	76.90	40.30
2	*5580.00	107.6 AV			1.00 V	57	67.30	40.30
3	11160.00	62.9 PK	74.0	-11.1	1.00 V	70	43.00	19.90
4	11160.00	48.7 AV	54.0	-5.3	1.00 V	70	28.80	19.90

REMARKS:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5700.00	109.0 PK			1.12 H	327	68.50	40.50
2	*5700.00	99.4 AV			1.12 H	327	58.90	40.50
3	#5725.00	69.4 PK	74.0	-4.6	1.00 H	329	62.30	7.10
4	#5725.00	52.3 AV	54.0	-1.7	1.00 H	329	45.20	7.10
5	11400.00	60.1 PK	74.0	-13.9	1.14 H	243	41.20	18.90
6	11400.00	47.1 AV	54.0	-6.9	1.14 H	243	28.20	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	111.5 PK			1.08 V	49	71.00	40.50
2	*5700.00	101.9 AV			1.08 V	49	61.40	40.50
3	#5725.00	72.7 PK	74.0	-1.3	1.00 V	65	65.60	7.10
4	**#5725.00**	**53.0 AV**	**54.0**	**-1.0**	**1.00 V**	**65**	**45.90**	**7.10**
5	11400.00	59.9 PK	74.0	-14.1	1.00 V	96	41.00	18.90
6	11400.00	47.2 AV	54.0	-6.8	1.00 V	96	28.30	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5260.00	115.1 PK			1.00 H	319	75.10	40.00
2	*5260.00	105.4 AV			1.00 H	319	65.40	40.00
3	5350.00	67.4 PK	74.0	-6.6	1.00 H	350	61.00	6.40
4	5350.00	48.9 AV	54.0	-5.1	1.00 H	350	42.50	6.40
5	#10520.00	62.8 PK	74.0	-11.2	1.00 H	337	43.50	19.30
6	#10520.00	49.9 AV	54.0	-4.1	1.00 H	337	30.60	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	115.1 PK			1.18 V	40	75.10	40.00
2	*5260.00	105.0 AV			1.18 V	40	65.00	40.00
3	5350.00	64.4 PK	74.0	-9.6	1.32 V	60	58.00	6.40
4	5350.00	47.3 AV	54.0	-6.7	1.32 V	60	40.90	6.40
5	#10520.00	63.0 PK	74.0	-11.0	1.00 V	27	43.70	19.30
6	#10520.00	49.8 AV	54.0	-4.2	1.00 V	27	30.50	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5300.00	113.1 PK			1.11 H	350	73.10	40.00
2	*5300.00	103.1 AV			1.11 H	350	63.10	40.00
3	5350.00	67.6 PK	74.0	-6.4	1.00 H	351	61.20	6.40
4	5350.00	50.1 AV	54.0	-3.9	1.00 H	351	43.70	6.40
5	10600.00	59.3 PK	74.0	-14.7	1.06 H	231	39.70	19.60
6	10600.00	47.4 AV	54.0	-6.6	1.06 H	231	27.80	19.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	110.1 PK			1.00 V	37	70.10	40.00
2	*5300.00	101.1 AV			1.00 V	37	61.10	40.00
3	5350.00	67.1 PK	74.0	-6.9	1.32 V	62	60.70	6.40
4	5350.00	47.7 AV	54.0	-6.3	1.32 V	62	41.30	6.40
5	10600.00	60.4 PK	74.0	-13.6	1.02 V	187	40.80	19.60
6	10600.00	47.4 AV	54.0	-6.6	1.02 V	187	27.80	19.60

REMARKS:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5320.00	111.4 PK			1.00 H	351	71.40	40.00
2	*5320.00	100.7 AV			1.00 H	351	60.70	40.00
3	5350.00	69.6 PK	74.0	-4.4	1.00 H	2	63.20	6.40
4	5350.00	52.4 AV	54.0	-1.6	1.00 H	2	46.00	6.40
5	10640.00	59.0 PK	74.0	-15.0	1.11 H	241	39.50	19.50
6	10640.00	45.7 AV	54.0	-8.3	1.11 H	241	26.20	19.50
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	*5320.00	107.2 PK			1.00 V	35	67.20	40.00
2	*5320.00	97.5 AV			1.00 V	35	57.50	40.00
3	5350.00	66.5 PK	74.0	-7.5	1.07 V	20	60.10	6.40
4	5350.00	49.0 AV	54.0	-5.0	1.07 V	20	42.60	6.40
5	10640.00	58.3 PK	74.0	-15.7	1.00 V	86	38.80	19.50
6	10640.00	45.8 AV	54.0	-8.2	1.00 V	86	26.30	19.50

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	65.3 PK	74.0	-8.7	1.05 H	340	58.60	6.70
2	5460.00	48.0 AV	54.0	-6.0	1.05 H	340	41.30	6.70
3	#5470.00	72.4 PK	74.0	-1.6	1.08 H	349	65.70	6.70
4	#5470.00	51.5 AV	54.0	-2.5	1.08 H	349	44.80	6.70
5	*5500.00	108.8 PK			1.00 H	4	68.50	40.30
6	*5500.00	99.3 AV			1.00 H	4	59.00	40.30
7	11000.00	60.0 PK	74.0	-14.0	1.06 H	102	39.70	20.30
8	11000.00	46.8 AV	54.0	-7.2	1.06 H	102	26.50	20.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.1 PK	74.0	-8.9	1.00 V	60	58.40	6.70
2	5460.00	46.7 AV	54.0	-7.3	1.00 V	60	40.00	6.70
3	#5470.00	69.2 PK	74.0	-4.8	1.00 V	55	62.50	6.70
4	#5470.00	49.8 AV	54.0	-4.2	1.00 V	55	43.10	6.70
5	*5500.00	109.6 PK			1.00 V	56	69.30	40.30
6	*5500.00	99.8 AV			1.00 V	56	59.50	40.30
7	11000.00	59.9 PK	74.0	-14.1	1.00 V	53	39.60	20.30
8	11000.00	47.3 AV	54.0	-6.7	1.00 V	53	27.00	20.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5580.00	113.8 PK			1.00 H	12	73.50	40.30
2	*5580.00	103.8 AV			1.00 H	12	63.50	40.30
3	11160.00	61.1 PK	74.0	-12.9	1.18 H	306	41.20	19.90
4	11160.00	48.7 AV	54.0	-5.3	1.18 H	306	28.80	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	116.9 PK			1.00 V	50	76.60	40.30
2	*5580.00	106.9 AV			1.00 V	50	66.60	40.30
3	11160.00	62.7 PK	74.0	-11.3	1.00 V	56	42.80	19.90
4	11160.00	49.6 AV	54.0	-4.4	1.00 V	56	29.70	19.90

REMARKS:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5700.00	108.1 PK			1.00 H	325	67.60	40.50
2	*5700.00	98.8 AV			1.00 H	325	58.30	40.50
3	#5725.00	71.9 PK	74.0	-2.1	1.00 H	329	64.80	7.10
4	#5725.00	52.9 AV	54.0	-1.1	1.00 H	329	45.80	7.10
5	11400.00	60.5 PK	74.0	-13.5	1.00 H	274	41.60	18.90
6	11400.00	46.6 AV	54.0	-7.4	1.00 H	274	27.70	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.5 PK			1.19 V	49	70.00	40.50
2	*5700.00	100.2 AV			1.19 V	49	59.70	40.50
3	#5725.00	70.8 PK	74.0	-3.2	1.00 V	357	63.70	7.10
4	#5725.00	52.6 AV	54.0	-1.4	1.00 V	357	45.50	7.10
5	11400.00	59.3 PK	74.0	-14.7	1.11 V	124	40.40	18.90
6	11400.00	46.6 AV	54.0	-7.4	1.11 V	124	27.70	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5270.00	108.2 PK			1.00 H	317	68.20	40.00
2	*5270.00	99.0 AV			1.00 H	317	59.00	40.00
3	5350.00	69.3 PK	74.0	-4.7	1.00 H	352	62.90	6.40
4	5350.00	51.9 AV	54.0	-2.1	1.00 H	352	45.50	6.40
5	#10540.00	59.6 PK	74.0	-14.4	1.06 H	201	40.30	19.30
6	#10540.00	46.2 AV	54.0	-7.8	1.06 H	201	26.90	19.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	107.8 PK			1.00 V	37	67.80	40.00
2	*5270.00	98.6 AV			1.00 V	37	58.60	40.00
3	5350.00	64.9 PK	74.0	-9.1	1.21 V	59	58.50	6.40
4	5350.00	49.0 AV	54.0	-5.0	1.21 V	59	42.60	6.40
5	#10540.00	60.1 PK	74.0	-13.9	1.02 V	137	40.80	19.30
6	#10540.00	46.4 AV	54.0	-7.6	1.02 V	137	27.10	19.30

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	*5310.00	102.6 PK			1.00 H	352	62.60	40.00
2	*5310.00	92.6 AV			1.00 H	352	52.60	40.00
3	5350.00	68.6 PK	74.0	-5.4	1.00 H	352	62.20	6.40
4	5350.00	52.2 AV	54.0	-1.8	1.00 H	352	45.80	6.40
5	10620.00	59.3 PK	74.0	-14.7	1.11 H	271	39.80	19.50
6	10620.00	45.8 AV	54.0	-8.2	1.11 H	271	26.30	19.50
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	*5310.00	100.6 PK			1.08 V	22	60.60	40.00
2	*5310.00	89.8 AV			1.08 V	22	49.80	40.00
3	5350.00	67.4 PK	74.0	-6.6	1.18 V	34	61.00	6.40
4	5350.00	50.0 AV	54.0	-4.0	1.18 V	34	43.60	6.40
5	10620.00	59.4 PK	74.0	-14.6	1.00 V	96	39.90	19.50
6	10620.00	45.9 AV	54.0	-8.1	1.00 V	96	26.40	19.50

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.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5460.00	62.2 PK	74.0	-11.8	1.00 H	0	55.50	6.70
2	5460.00	47.1 AV	54.0	-6.9	1.00 H	0	40.40	6.70
3	#5470.00	69.4 PK	74.0	-4.6	1.00 H	3	62.70	6.70
4	#5470.00	52.2 AV	54.0	-1.8	1.00 H	3	45.50	6.70
5	*5510.00	101.2 PK			1.00 H	6	60.90	40.30
6	*5510.00	91.5 AV			1.00 H	6	51.20	40.30
7	11020.00	60.2 PK	74.0	-13.8	1.16 H	78	40.00	20.20
8	11020.00	47.5 AV	54.0	-6.5	1.16 H	78	27.30	20.20
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	5460.00	62.0 PK	74.0	-12.0	1.00 V	50	55.30	6.70
2	5460.00	46.6 AV	54.0	-7.4	1.00 V	50	39.90	6.70
3	#5470.00	68.9 PK	74.0	-5.1	1.03 V	52	62.20	6.70
4	#5470.00	51.6 AV	54.0	-2.4	1.03 V	52	44.90	6.70
5	*5510.00	101.6 PK			1.00 V	54	61.30	40.30
6	*5510.00	92.3 AV			1.00 V	54	52.00	40.30
7	11020.00	61.1 PK	74.0	-12.9	1.00 V	206	40.90	20.20
8	11020.00	47.5 AV	54.0	-6.5	1.00 V	206	27.30	20.20

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 of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5470.00	72.8 PK	74.0	-1.2	1.18 H	2	66.10	6.70
2	#5470.00	51.8 AV	54.0	-2.2	1.18 H	2	45.10	6.70
3	*5550.00	108.5 PK			1.18 H	7	68.20	40.30
4	*5550.00	98.4 AV			1.18 H	7	58.10	40.30
5	11100.00	61.6 PK	74.0	-12.4	1.25 H	84	41.80	19.80
6	11100.00	48.3 AV	54.0	-5.7	1.25 H	84	28.50	19.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	71.3 PK	74.0	-2.7	1.00 V	55	64.60	6.70
2	#5470.00	51.7 AV	54.0	-2.3	1.00 V	55	45.00	6.70
3	*5550.00	110.3 PK			1.00 V	55	70.00	40.30
4	*5550.00	100.4 AV			1.00 V	55	60.10	40.30
5	11100.00	62.3 PK	74.0	-11.7	1.03 V	263	42.50	19.80
6	11100.00	48.7 AV	54.0	-5.3	1.03 V	263	28.90	19.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	109.4 PK			1.14 H	2	69.00	40.40
2	*5670.00	98.7 AV			1.14 H	2	58.30	40.40
3	#5725.00	68.0 PK	74.0	-6.0	1.04 H	16	60.90	7.10
4	#5725.00	52.9 AV	54.0	-1.1	1.04 H	16	45.80	7.10
5	11340.00	60.4 PK	74.0	-13.6	1.10 H	276	40.90	19.50
6	11340.00	47.3 AV	54.0	-6.7	1.10 H	276	27.80	19.50
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	*5670.00	109.3 PK			1.00 V	49	68.90	40.40
2	*5670.00	99.9 AV			1.00 V	49	59.50	40.40
3	#5725.00	70.8 PK	74.0	-3.2	1.00 V	67	63.70	7.10
4	#5725.00	52.9 AV	54.0	-1.1	1.00 V	67	45.80	7.10
5	11340.00	60.2 PK	74.0	-13.8	1.00 V	78	40.70	19.50
6	11340.00	47.5 AV	54.0	-6.5	1.00 V	78	28.00	19.50

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 of the restricted band.

BELOW 1GHz WORST-CASE DATA

Radio 2: Dipole antenna

802.11n (HT20)

CHANNEL	TX Channel 64	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	57.12	32.6 QP	40.0	-7.4	2.00 H	4	47.30	-14.70
2	150.39	40.9 QP	43.5	-2.6	2.06 H	262	54.80	-13.90
3	202.94	37.8 QP	43.5	-5.7	1.50 H	102	54.60	-16.80
4	362.37	34.5 QP	46.0	-11.5	2.00 H	334	45.80	-11.30
5	799.84	36.0 QP	46.0	-10.0	1.01 H	16	38.20	-2.20
6	1000.00	42.7 QP	54.0	-11.3	1.50 H	35	41.90	0.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	57.12	33.1 QP	40.0	-6.9	1.49 V	26	47.80	-14.70
2	150.45	36.2 QP	43.5	-7.3	1.00 V	153	50.10	-13.90
3	201.00	34.9 QP	43.5	-8.6	1.00 V	342	51.60	-16.70
4	356.54	33.6 QP	46.0	-12.4	1.99 V	6	45.10	-11.50
5	500.42	30.7 QP	46.0	-15.3	1.00 V	335	39.10	-8.40
6	799.84	37.7 QP	46.0	-8.3	1.00 V	352	39.90	-2.20

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

Radio 2: Patch antenna

802.11n (20MHz)

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	105.73	35.0 QP	43.5	-8.5	2.00 H	262	53.00	-18.00
2	145.82	41.0 QP	43.5	-2.5	2.28 H	194	55.10	-14.10
3	204.89	41.8 QP	43.5	-1.7	2.00 H	63	58.50	-16.70
4	247.66	33.5 QP	46.0	-12.5	1.00 H	65	47.90	-14.40
5	799.84	35.4 QP	46.0	-10.6	1.00 H	134	37.60	-2.20
6	1000.00	37.3 QP	54.0	-16.7	1.50 H	154	36.50	0.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	61.01	37.0 QP	40.0	-3.0	2.00 V	335	52.10	-15.10
2	107.67	38.0 QP	43.5	-5.5	1.00 V	151	55.70	-17.70
3	154.33	41.4 QP	43.5	-2.1	1.49 V	306	55.20	-13.80
4	202.94	34.3 QP	43.5	-9.2	1.00 V	50	51.10	-16.80
5	799.84	37.3 QP	46.0	-8.7	1.00 V	96	39.50	-2.20
6	1000.00	40.6 QP	54.0	-13.4	1.00 V	236	39.80	0.80

REMARKS:

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

Radio 2: Sector antenna

802.11n (20MHz)

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	105.73	38.7 QP	43.5	-4.8	2.00 H	195	56.70	-18.00
2	142.67	38.0 QP	43.5	-5.5	2.00 H	264	52.40	-14.40
3	234.05	39.0 QP	46.0	-7.0	1.49 H	91	54.50	-15.50
4	403.20	29.4 QP	46.0	-16.6	1.00 H	301	39.80	-10.40
5	799.84	35.7 QP	46.0	-10.3	2.00 H	42	37.90	-2.20
6	1000.00	36.2 QP	54.0	-17.8	1.49 H	323	35.40	0.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	107.67	36.8 QP	43.5	-6.7	1.51 V	119	54.50	-17.70
2	150.45	40.8 QP	43.5	-2.7	1.01 V	131	54.70	-13.90
3	197.11	38.9 QP	43.5	-4.6	1.01 V	21	55.70	-16.80
4	374.04	31.7 QP	46.0	-14.3	1.51 V	243	42.50	-10.80
5	799.84	35.3 QP	46.0	-10.7	1.51 V	100	37.50	-2.20
6	1000.00	39.0 QP	54.0	-15.0	1.51 V	204	38.20	0.80

REMARKS:

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

Radio 3: PIFA antenna

802.11n (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	57.12	33.7 QP	40.0	-6.3	1.99 H	80	48.40	-14.70
2	153.00	40.6 QP	43.5	-2.9	2.12 H	259	54.50	-13.90
3	204.89	37.4 QP	43.5	-6.1	1.00 H	108	54.10	-16.70
4	360.43	34.7 QP	46.0	-11.3	1.99 H	349	46.00	-11.30
5	799.84	35.1 QP	46.0	-10.9	1.00 H	15	37.30	-2.20
6	1000.00	43.1 QP	54.0	-10.9	1.50 H	29	42.30	0.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	62.95	34.8 QP	40.0	-5.2	1.51 V	218	50.10	-15.30
2	107.67	36.7 QP	43.5	-6.8	1.01 V	106	54.40	-17.70
3	150.45	40.2 QP	43.5	-3.3	1.01 V	205	54.10	-13.90
4	202.94	35.1 QP	43.5	-8.4	1.01 V	16	51.90	-16.80
5	356.54	34.0 QP	46.0	-12.0	1.01 V	16	45.50	-11.50
6	799.84	37.5 QP	46.0	-8.5	1.51 V	9	39.70	-2.20

REMARKS:

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

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

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

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Apr. 24, 2014	Apr. 23, 2015
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 23, 2013	Dec. 22, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 10, 2014	Jul. 09, 2015
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

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

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

3. The VCCI Site Registration No. is C-2047.

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.

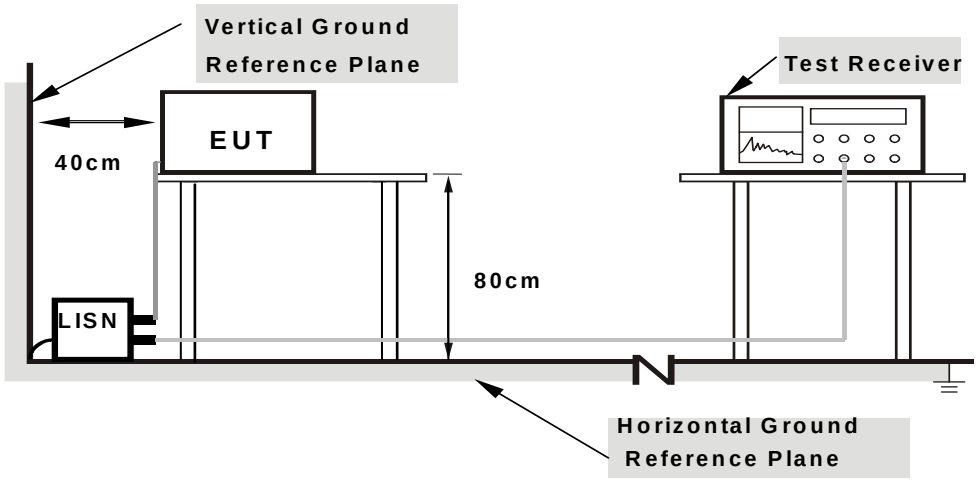
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



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

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA：

Radio 2: Dipole antenna

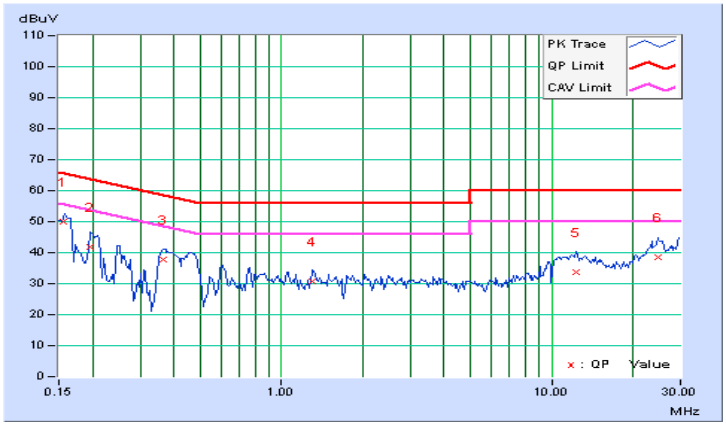
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15653	0.27	49.60	38.94	49.87	39.21	65.65	55.65	-15.78	-16.44
2	0.19687	0.28	41.72	30.87	42.00	31.15	63.74	53.74	-21.74	-22.59
3	0.36484	0.30	37.34	29.41	37.64	29.71	58.62	48.62	-20.98	-18.91
4	1.30469	0.35	30.28	20.90	30.63	21.25	56.00	46.00	-25.37	-24.75
5	12.31250	0.51	33.27	28.28	33.78	28.79	60.00	50.00	-26.22	-21.21
6	24.79297	0.54	37.81	32.86	38.35	33.40	60.00	50.00	-21.65	-16.60

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

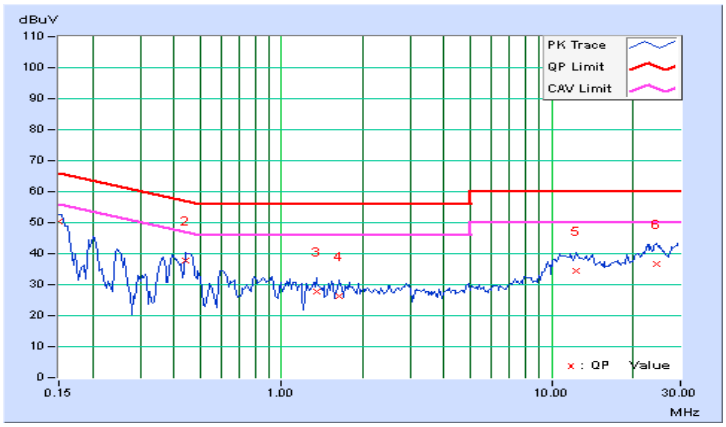


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.26	50.28	40.34	50.54	40.60	66.00	56.00	-15.46	-15.40
2	0.44297	0.30	37.32	27.07	37.62	27.37	57.01	47.01	-19.38	-19.63
3	1.35156	0.35	27.47	19.55	27.82	19.90	56.00	46.00	-28.18	-26.10
4	1.62891	0.36	25.95	16.62	26.31	16.98	56.00	46.00	-29.69	-29.02
5	12.25391	0.54	33.73	28.99	34.27	29.53	60.00	50.00	-25.73	-20.47
6	24.37891	0.57	36.24	31.23	36.81	31.80	60.00	50.00	-23.19	-18.20

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



Radio 2: Patch antenna

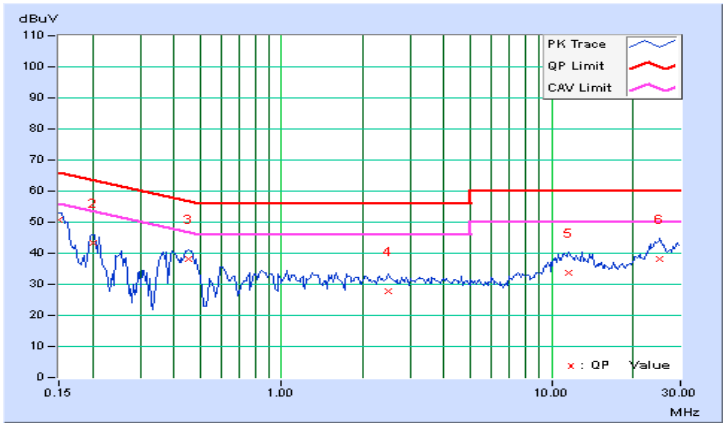
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.26	50.40	40.48	50.66	40.74	66.00	56.00	-15.34	-15.26
2	0.20078	0.28	42.93	35.38	43.21	35.66	63.58	53.58	-20.37	-17.92
3	**0.45469**	**0.30**	**37.83**	**32.25**	**38.13**	**32.55**	**56.79**	**46.79**	**-18.66**	**-14.24**
4	2.49609	0.38	27.54	19.04	27.92	19.42	56.00	46.00	-28.08	-26.58
5	11.59766	0.51	33.30	28.19	33.81	28.70	60.00	50.00	-26.19	-21.30
6	25.21094	0.53	37.67	32.68	38.20	33.21	60.00	50.00	-21.80	-16.79

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

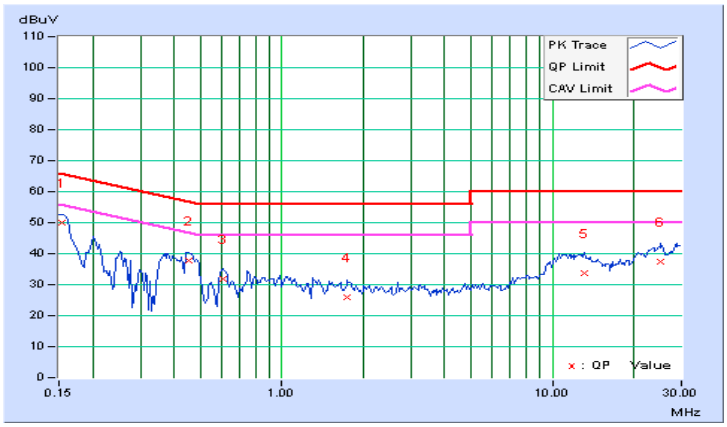


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	49.88	40.50	50.15	40.77	65.79	55.79	-15.64	-15.02
2	0.45078	0.30	37.38	30.87	37.68	31.17	56.86	46.86	-19.18	-15.69
3	0.60313	0.31	31.69	24.43	32.00	24.74	56.00	46.00	-24.00	-21.26
4	1.75000	0.36	25.65	15.34	26.01	15.70	56.00	46.00	-29.99	-30.30
5	13.06641	0.55	33.31	28.62	33.86	29.17	60.00	50.00	-26.14	-20.83
6	25.03516	0.56	36.87	31.91	37.43	32.47	60.00	50.00	-22.57	-17.53

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



Radio 2: Sector antenna

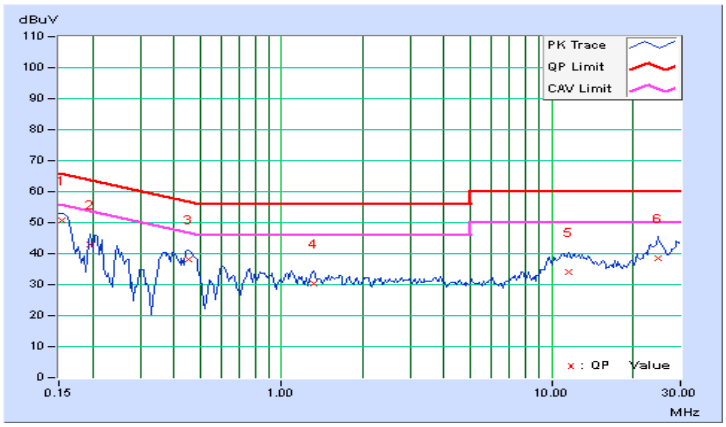
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15334	0.27	50.30	41.06	50.57	41.33	65.82	55.82	-15.25	-14.49
2	0.19687	0.28	42.55	31.52	42.83	31.80	63.74	53.74	-20.91	-21.94
3	0.45078	0.30	37.97	31.86	38.27	32.16	56.86	46.86	-18.59	-14.70
4	1.31250	0.35	30.10	21.20	30.45	21.55	56.00	46.00	-25.55	-24.45
5	11.51953	0.51	33.67	28.83	34.18	29.34	60.00	50.00	-25.82	-20.66
6	24.84766	0.54	38.01	32.97	38.55	33.51	60.00	50.00	-21.45	-16.49

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

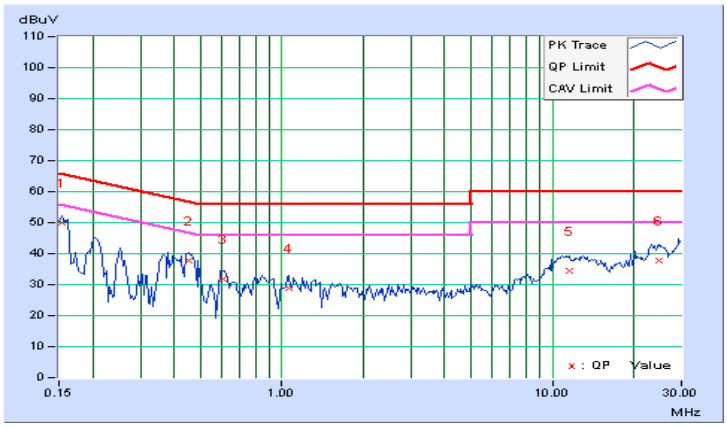


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	49.90	40.60	50.17	40.87	65.79	55.79	-15.62	-14.92
2	0.45078	0.30	37.41	31.03	37.71	31.33	56.86	46.86	-19.15	-15.53
3	0.60313	0.31	31.69	24.39	32.00	24.70	56.00	46.00	-24.00	-21.30
4	1.05469	0.34	28.73	19.69	29.07	20.03	56.00	46.00	-26.93	-25.97
5	11.58203	0.53	33.89	29.27	34.42	29.80	60.00	50.00	-25.58	-20.20
6	24.90625	0.57	37.08	32.09	37.65	32.66	60.00	50.00	-22.35	-17.34

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



Radio 3: PIFA antenna

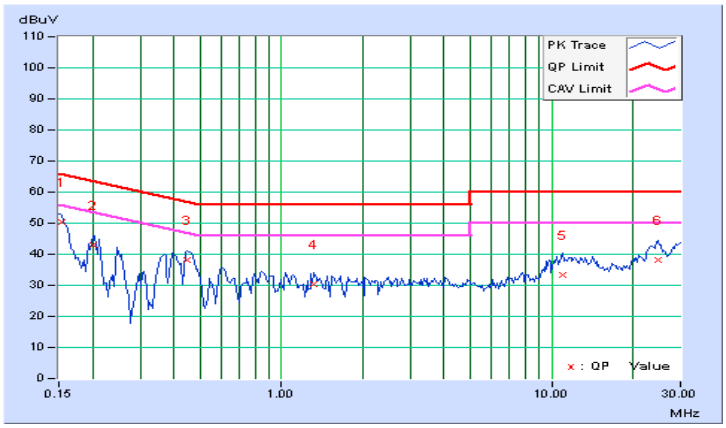
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15401	0.27	50.24	40.56	50.51	40.83	65.78	55.78	-15.27	-14.95
2	0.20078	0.28	42.71	35.20	42.99	35.48	63.58	53.58	-20.59	-18.10
3	0.44688	0.30	37.97	28.33	38.27	28.63	56.93	46.93	-18.66	-18.30
4	1.32422	0.35	29.93	20.83	30.28	21.18	56.00	46.00	-25.72	-24.82
5	10.93750	0.51	32.88	28.26	33.39	28.77	60.00	50.00	-26.61	-21.23
6	24.72266	0.54	37.67	32.66	38.21	33.20	60.00	50.00	-21.79	-16.80

REMARKS:

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

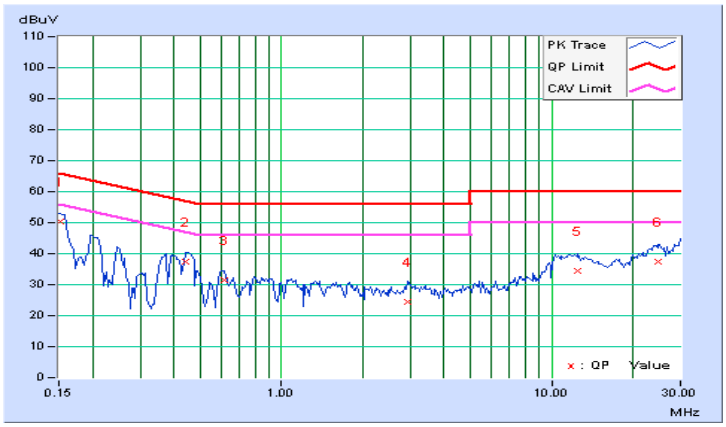


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15134	0.27	50.24	40.92	50.51	41.19	65.93	55.93	-15.42	-14.74
2	0.44304	0.30	37.22	26.63	37.52	26.93	57.00	47.00	-19.48	-20.07
3	0.61094	0.31	31.12	24.37	31.43	24.68	56.00	46.00	-24.57	-21.32
4	2.94531	0.40	24.22	15.86	24.62	16.26	56.00	46.00	-31.38	-29.74
5	12.53125	0.54	33.87	28.63	34.41	29.17	60.00	50.00	-25.59	-20.83
6	24.69141	0.57	36.92	31.96	37.49	32.53	60.00	50.00	-22.51	-17.47

REMARKS:

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



4.3 TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√	---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√	---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3		---	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

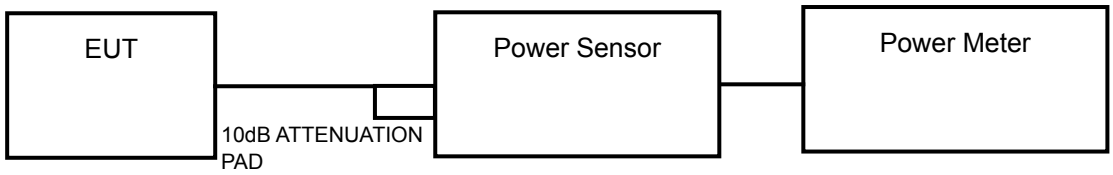
Per KDB 662911 D01 Multiple Transmitter Output v02r01 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

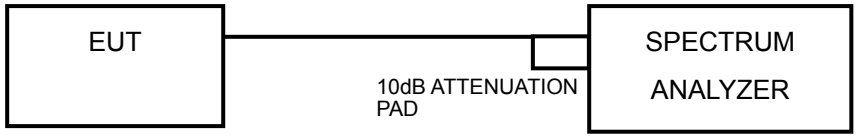
For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

4.3.2 TEST SETUP

For 802.11a, 802.11n (HT20), 802.11n (HT40)



For 802.11ac (VHT80)



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

For 802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac (VHT80)

1) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
2) Set sweep trigger to “free run”.
3) Set RBW = 1 MHz.
4) Set VBW ≥ 3 MHz
5) Number of points in sweep ≥ 2 Span / RBW.
6) Sweep time ≤ (number of points in sweep) * T
7) Detector = RMS.
8) Trace mode = max hold.
9) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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 specific channel frequencies individually.

4.3.7 TEST RESULTS

POWER OUTPUT:

Radio 2: Dipole antenna

802.11a

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
52	5260	16.31	15.62	79.231	18.99	23.00	PASS
60	5300	16.44	15.53	79.782	19.02	23.00	PASS
64	5320	16.33	15.48	78.272	18.94	23.00	PASS
100	5500	15.93	15.31	73.137	18.64	23.00	PASS
116	5580	15.95	15.43	74.269	18.71	23.00	PASS
140	5700	16.03	15.51	75.650	18.79	23.00	PASS

* Gain=7dBi, so the power limit shall be reduced to 24-(7-6) = 23.0dBm.

NOTE:
CHAIN 0
1. 11dBm + 10log(20.53) = 24.12 dBm > 23dBm.
2. 11dBm + 10log(20.54) = 24.13 dBm > 23dBm.
3. 11dBm + 10log(20.50) = 24.12 dBm > 23dBm.
4. 11dBm + 10log(20.54) = 24.13 dBm > 23dBm.
5. 11dBm + 10log(20.43) = 24.10 dBm > 23dBm.
6. 11dBm + 10log(20.44) = 24.10 dBm > 23dBm.

CHAIN 1
1. 11dBm + 10log(20.44) = 24.10 dBm > 23dBm.
2. 11dBm + 10log(20.46) = 24.11 dBm > 23dBm.
3. 11dBm + 10log(20.48) = 24.11 dBm > 23dBm.
4. 11dBm + 10log(20.54) = 24.13 dBm > 23dBm.
5. 11dBm + 10log(20.45) = 24.11 dBm > 23dBm.
6. 11dBm + 10log(20.64) = 24.15 dBm > 23dBm.

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
52	5260	16.45	15.82	82.351	19.16	23.00	PASS
60	5300	16.52	15.73	82.286	19.15	23.00	PASS
64	5320	16.58	15.87	84.136	19.25	23.00	PASS
100	5500	16.18	15.53	77.222	18.88	23.00	PASS
116	5580	16.32	15.63	79.414	19.00	23.00	PASS
140	5700	16.28	15.88	81.188	19.09	23.00	PASS

* Gain=7dBi, so the power limit shall be reduced to 24-(7-6) = 23.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(20.90) = 24.20 dBm > 23dBm.
2. 11dBm + 10log(20.86) = 24.19 dBm > 23dBm.
3. 11dBm + 10log(20.82) = 24.18 dBm > 23dBm.
4. 11dBm + 10log(20.88) = 24.20 dBm > 23dBm.
5. 11dBm + 10log(20.93) = 24.21 dBm > 23dBm.
6. 11dBm + 10log(20.96) = 24.21 dBm > 23dBm.

CHAIN 1

1. 11dBm + 10log(20.84) = 24.19 dBm > 23dBm.
2. 11dBm + 10log(20.69) = 24.16 dBm > 23dBm.
3. 11dBm + 10log(20.54) = 24.13 dBm > 23dBm.
4. 11dBm + 10log(20.56) = 24.13 dBm > 23dBm.
5. 11dBm + 10log(20.57) = 24.13 dBm > 23dBm.
6. 11dBm + 10log(20.65) = 24.15 dBm > 23dBm.

802.11n (HT40)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
54	5270	19.46	18.93	**166.471**	22.21	23.00	PASS
62	5310	16.49	15.87	83.203	19.20	23.00	PASS
102	5510	15.32	14.48	62.095	17.93	23.00	PASS
110	5550	19.54	18.93	168.113	22.26	23.00	PASS
134	5670	19.62	18.97	**170.508**	22.32	23.00	PASS

* Gain=7dBi, so the power limit shall be reduced to 24-(7-6) = 23.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(42.82) = 27.32 dBm > 23dBm.
2. 11dBm + 10log(41.44) = 27.17 dBm > 23dBm.
3. 11dBm + 10log(41.77) = 27.21 dBm > 23dBm.
4. 11dBm + 10log(41.64) = 27.20 dBm > 23dBm.
5. 11dBm + 10log(43.52) = 27.39 dBm > 23dBm.

CHAIN 1

1. 11dBm + 10log(43.89) = 27.42 dBm > 23dBm.
2. 11dBm + 10log(41.29) = 27.16 dBm > 23dBm.
3. 11dBm + 10log(41.23) = 27.15 dBm > 23dBm.
4. 11dBm + 10log(41.32) = 27.16 dBm > 23dBm.
5. 11dBm + 10log(41.35) = 27.16 dBm > 23dBm.

802.11ac (VHT80)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
58	5290	14.30	13.98	51.918	17.15	23.00	PASS
106	5530	15.19	14.76	62.960	17.99	23.00	PASS

* Gain=7dBi, so the power limit shall be reduced to 24-(7-6) = 23.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(82.96) = 30.19 dBm > 23dBm.
2. 11dBm + 10log(82.95) = 30.19 dBm > 23dBm.

CHAIN 1

1. 11dBm + 10log(83.16) = 30.20 dBm > 23dBm.
2. 11dBm + 10log(82.79) = 30.18 dBm > 23dBm.

Radio 2: Patch antenna

802.11a

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
52	5260	15.67	15.13	69.482	18.42	22.9	PASS
60	5300	15.63	15.33	70.678	18.49	22.9	PASS
64	5320	15.83	15.25	71.779	18.56	22.9	PASS
100	5500	15.53	15.27	69.378	18.41	22.9	PASS
116	5580	15.63	15.01	68.255	18.34	22.9	PASS
140	5700	15.58	15.12	68.650	18.37	22.9	PASS

* Gain=7.1dBi, so the power limit shall be reduced to 24-(7.1-6) = 22.9dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(20.48) = 24.11 dBm > 22.9dBm.
2. 11dBm + 10log(20.52) = 24.12 dBm > 22.9dBm.
3. 11dBm + 10log(20.54) = 24.13 dBm > 22.9dBm.
4. 11dBm + 10log(20.54) = 24.13 dBm > 22.9dBm.
5. 11dBm + 10log(20.45) = 24.11 dBm > 22.9dBm.
6. 11dBm + 10log(20.63) = 24.14 dBm > 22.9dBm.

CHAIN 1

1. 11dBm + 10log(20.41) = 24.10 dBm > 22.9dBm.
2. 11dBm + 10log(20.42) = 24.10 dBm > 22.9dBm.
3. 11dBm + 10log(20.32) = 24.08 dBm > 22.9dBm.
4. 11dBm + 10log(20.51) = 24.12 dBm > 22.9dBm.
5. 11dBm + 10log(20.55) = 24.13 dBm > 22.9dBm.
6. 11dBm + 10log(20.60) = 24.14 dBm > 22.9dBm.

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
52	5260	16.53	15.92	84.062	19.25	22.9	PASS
60	5300	16.62	16.05	86.192	19.35	22.9	PASS
64	5320	16.56	15.73	82.701	19.18	22.9	PASS
100	5500	16.32	15.57	78.913	18.97	22.9	PASS
116	5580	16.42	15.43	78.767	18.96	22.9	PASS
140	5700	16.51	15.53	80.498	19.06	22.9	PASS

* Gain=7.1dBi, so the power limit shall be reduced to 24-(7.1-6) = 22.9dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(20.89) = 24.20 dBm > 22.9dBm.
2. 11dBm + 10log(20.89) = 24.20 dBm > 22.9dBm.
3. 11dBm + 10log(20.81) = 24.18 dBm > 22.9dBm.
4. 11dBm + 10log(20.78) = 24.18 dBm > 22.9dBm.
5. 11dBm + 10log(21.14) = 24.25 dBm > 22.9dBm.
6. 11dBm + 10log(20.96) = 24.21 dBm > 22.9dBm.

CHAIN 1

1. 11dBm + 10log(20.87) = 24.20 dBm > 22.9dBm.
2. 11dBm + 10log(20.56) = 24.13 dBm > 22.9dBm.
3. 11dBm + 10log(20.62) = 24.14 dBm > 22.9dBm.
4. 11dBm + 10log(20.63) = 24.14 dBm > 22.9dBm.
5. 11dBm + 10log(20.57) = 24.13 dBm > 22.9dBm.
6. 11dBm + 10log(20.56) = 24.13 dBm > 22.9dBm.

802.11n (HT40)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
54	5270	19.81	19.52	**185.255**	22.68	22.9	PASS
62	5310	15.91	15.27	72.645	18.61	22.9	PASS
102	5510	16.92	16.15	90.414	19.56	22.9	PASS
110	5550	19.84	19.25	**180.523**	22.57	22.9	PASS
134	5670	18.57	18.48	142.414	21.54	22.9	PASS

* Gain=7.1dBi, so the power limit shall be reduced to 24-(7.1-6) = 22.9dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(46.26) = 27.65 dBm > 22.9dBm.
2. 11dBm + 10log(41.48) = 27.18 dBm > 22.9dBm.
3. 11dBm + 10log(41.49) = 27.18 dBm > 22.9dBm.
4. 11dBm + 10log(46.75) = 27.70 dBm > 22.9dBm.
5. 11dBm + 10log(41.75) = 27.21 dBm > 22.9dBm.

CHAIN 1

1. 11dBm + 10log(41.47) = 27.18 dBm > 22.9dBm.
2. 11dBm + 10log(41.23) = 27.15 dBm > 22.9dBm.
3. 11dBm + 10log(41.21) = 27.15 dBm > 22.9dBm.
4. 11dBm + 10log(45.67) = 27.60 dBm > 22.9dBm.
5. 11dBm + 10log(41.41) = 27.17 dBm > 22.9dBm.

802.11ac (VHT80)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
58	5290	14.07	13.87	49.905	16.98	22.9	PASS
106	5530	16.62	16.22	87.799	19.43	22.9	PASS

* Gain=7.1dBi, so the power limit shall be reduced to 24-(7.1-6) = 22.9dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(83.20) = 30.20 dBm > 22.9dBm.
2. 11dBm + 10log(83.19) = 30.20 dBm > 22.9dBm.

CHAIN 1

1. 11dBm + 10log(83.33) = 30.21 dBm > 22.9dBm.
2. 11dBm + 10log(82.44) = 30.16 dBm > 22.9dBm.

Radio 2: Sector antenna

802.11a

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
52	5260	10.83	10.32	22.871	13.59	17	PASS
60	5300	10.82	10.27	22.719	13.56	17	PASS
64	5320	11.02	10.51	23.893	13.78	17	PASS
100	5500	10.80	10.55	23.373	13.69	17	PASS
116	5580	11.01	10.23	23.162	13.65	17	PASS
140	5700	10.72	10.44	22.869	13.59	17	PASS

* Gain=13dBi, so the power limit shall be reduced to 24-(13-6) = 17.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(20.43) = 24.10 dBm > 17dBm.
2. 11dBm + 10log(20.43) = 24.10 dBm > 17dBm.
3. 11dBm + 10log(20.30) = 24.07 dBm > 17dBm.
4. 11dBm + 10log(20.45) = 24.11 dBm > 17dBm.
5. 11dBm + 10log(20.43) = 24.10 dBm > 17dBm.
6. 11dBm + 10log(20.50) = 24.12 dBm > 17dBm.

CHAIN 1

1. 11dBm + 10log(20.51) = 24.12 dBm > 17dBm.
2. 11dBm + 10log(20.47) = 24.11 dBm > 17dBm.
3. 11dBm + 10log(20.35) = 24.09 dBm > 17dBm.
4. 11dBm + 10log(20.25) = 24.06 dBm > 17dBm.
5. 11dBm + 10log(20.52) = 24.12 dBm > 17dBm.
6. 11dBm + 10log(20.53) = 24.12 dBm > 17dBm.

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
52	5260	11.33	10.74	25.441	14.06	17	PASS
60	5300	11.08	10.56	24.199	13.84	17	PASS
64	5320	10.95	10.49	23.639	13.74	17	PASS
100	5500	10.93	10.38	23.302	13.67	17	PASS
116	5580	11.06	10.17	23.163	13.65	17	PASS
140	5700	11.02	10.56	24.023	13.81	17	PASS

* Gain=13dBi, so the power limit shall be reduced to 24-(13-6) = 17.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(20.86) = 24.19 dBm > 17dBm.
2. 11dBm + 10log(20.75) = 24.17 dBm > 17dBm.
3. 11dBm + 10log(20.78) = 24.18 dBm > 17dBm.
4. 11dBm + 10log(20.71) = 24.16 dBm > 17dBm.
5. 11dBm + 10log(20.97) = 24.22 dBm > 17dBm.
6. 11dBm + 10log(20.78) = 24.18 dBm > 17dBm.

CHAIN 1

1. 11dBm + 10log(20.69) = 24.16 dBm > 17dBm.
2. 11dBm + 10log(20.46) = 24.11 dBm > 17dBm.
3. 11dBm + 10log(20.55) = 24.13 dBm > 17dBm.
4. 11dBm + 10log(20.66) = 24.15 dBm > 17dBm.
5. 11dBm + 10log(20.59) = 24.14 dBm > 17dBm.
6. 11dBm + 10log(20.63) = 24.14 dBm > 17dBm.

802.11n (HT40)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
54	5270	14.27	13.64	**49.851**	16.98	17	PASS
62	5310	12.07	11.83	31.347	14.96	17	PASS
102	5510	10.94	10.65	24.031	13.81	17	PASS
110	5550	14.17	13.45	**48.253**	16.84	17	PASS
134	5670	14.10	13.52	48.195	16.83	17	PASS

* Gain=13dBi, so the power limit shall be reduced to 24-(13-6) = 17.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(41.52) = 27.18 dBm > 17dBm.
2. 11dBm + 10log(41.45) = 27.18 dBm > 17dBm.
3. 11dBm + 10log(41.52) = 27.18 dBm > 17dBm.
4. 11dBm + 10log(41.52) = 27.18 dBm > 17dBm.
5. 11dBm + 10log(41.58) = 27.19 dBm > 17dBm.

CHAIN 1

1. 11dBm + 10log(41.10) = 27.14 dBm > 17dBm.
2. 11dBm + 10log(41.23) = 27.15 dBm > 17dBm.
3. 11dBm + 10log(41.21) = 27.15 dBm > 17dBm.
4. 11dBm + 10log(41.22) = 27.15 dBm > 17dBm.
5. 11dBm + 10log(41.10) = 27.14 dBm > 17dBm.

802.11ac (VHT80)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
58	5290	10.60	10.62	23.017	13.62	17	PASS
106	5530	9.23	9.73	17.772	12.50	17	PASS

* Gain=13dBi, so the power limit shall be reduced to 24-(13-6) = 17.0dBm.

NOTE:

CHAIN 0

1. 11dBm + 10log(83.33) = 30.21 dBm > 17dBm.
2. 11dBm + 10log(83.56) = 30.22 dBm > 17dBm.

CHAIN 1

1. 11dBm + 10log(82.73) = 30.18 dBm > 17dBm.
2. 11dBm + 10log(82.17) = 30.15 dBm > 17dBm.

Radio 3: PIFA antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
52	5260	154.882	21.90	23.5	PASS
60	5300	146.893	21.67	23.5	PASS
64	5320	34.119	15.33	23.5	PASS
100	5500	29.854	14.75	23.5	PASS
116	5580	140.605	21.48	23.5	PASS
140	5700	38.726	15.88	23.5	PASS

* Gain= 6.5dBi, so the power limit shall be reduced to 24-(6.5-6) = 23.5dBm.

NOTE:

1. 11dBm + 10log(45.66) = 27.60 dBm > 23.5dBm.
2. 11dBm + 10log(42.03) = 27.24 dBm > 23.5dBm.
3. 11dBm + 10log(25.52) = 25.07 dBm > 23.5dBm.
4. 11dBm + 10log(23.93) = 24.79 dBm > 23.5dBm.
5. 11dBm + 10log(43.66) = 27.40 dBm > 23.5dBm.
6. 11dBm + 10log(24.34) = 24.86 dBm > 23.5dBm.

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
52	5260	156.315	21.94	23.5	PASS
60	5300	148.252	21.71	23.5	PASS
64	5320	35.318	15.48	23.5	PASS
100	5500	25.527	14.07	23.5	PASS
116	5580	139.637	21.45	23.5	PASS
140	5700	34.995	15.44	23.5	PASS

* Gain= 6.5dBi, so the power limit shall be reduced to 24-(6.5-6) = 23.5dBm.

NOTE:

1. 11dBm + 10log(48.31) = 27.84 dBm > 23.5dBm.
2. 11dBm + 10log(40.07) = 27.03 dBm > 23.5dBm.
3. 11dBm + 10log(27.84) = 25.45 dBm > 23.5dBm.
4. 11dBm + 10log(22.24) = 24.47 dBm > 23.5dBm.
5. 11dBm + 10log(47.03) = 27.72 dBm > 23.5dBm.
6. 11dBm + 10log(22.64) = 24.55 dBm > 23.5dBm.

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
54	5270	53.580	17.29	23.5	PASS
62	5310	11.695	10.68	23.5	PASS
102	5510	7.328	8.65	23.5	PASS
110	5550	46.238	16.65	23.5	PASS
134	5670	53.211	17.26	23.5	PASS

* Gain= 6.5dBi, so the power limit shall be reduced to 24-(6.5-6) = 23.5dBm.

NOTE:

1. 11dBm + 10log(97.31) = 30.88 dBm > 23.5dBm.
2. 11dBm + 10log(43.14) = 27.35 dBm > 23.5dBm.
3. 11dBm + 10log(41.52) = 27.18 dBm > 23.5dBm.
4. 11dBm + 10log(92.92) = 30.68 dBm > 23.5dBm.
5. 11dBm + 10log(91.40) = 30.61 dBm > 23.5dBm.

26dB BANDWIDTH:

Radio 2: Dipole antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
52	5260	20.53	20.44	PASS
60	5300	20.54	20.46	PASS
64	5320	20.50	20.48	PASS
100	5500	20.54	20.54	PASS
116	5580	20.43	20.45	PASS
140	5700	20.44	20.64	PASS

802.11n (HT20)

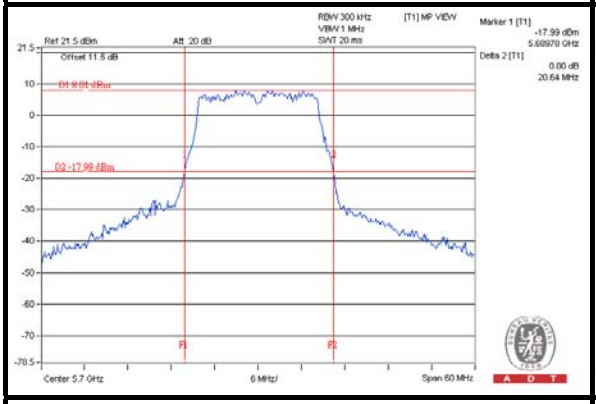
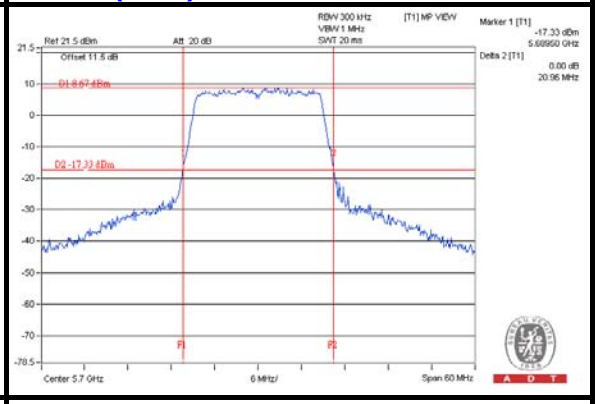
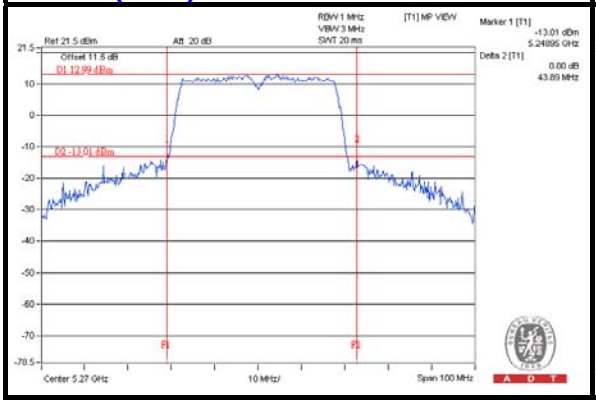
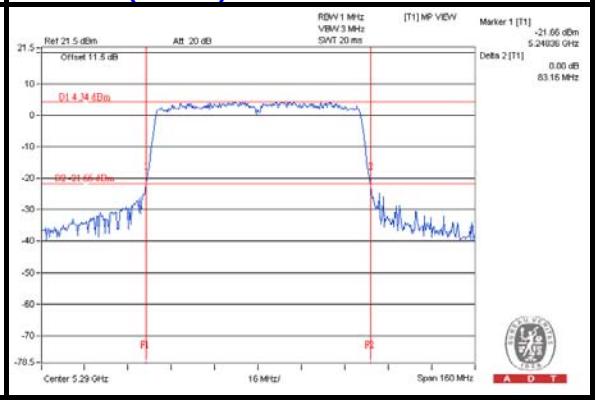
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
52	5260	20.90	20.84	PASS
60	5300	20.86	20.69	PASS
64	5320	20.82	20.54	PASS
100	5500	20.88	20.56	PASS
116	5580	20.93	20.57	PASS
140	5700	20.96	20.65	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
54	5270	42.82	43.89	PASS
62	5310	41.44	41.29	PASS
102	5510	41.77	41.23	PASS
110	5550	41.64	41.32	PASS
134	5670	43.52	41.35	PASS

802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
58	5290	82.96	83.16	PASS
106	5530	82.95	82.79	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Radio 2: Patch antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
52	5260	20.48	20.41	PASS
60	5300	20.52	20.42	PASS
64	5320	20.54	20.32	PASS
100	5500	20.54	20.51	PASS
116	5580	20.45	20.55	PASS
140	5700	20.63	20.60	PASS

802.11n (HT20)

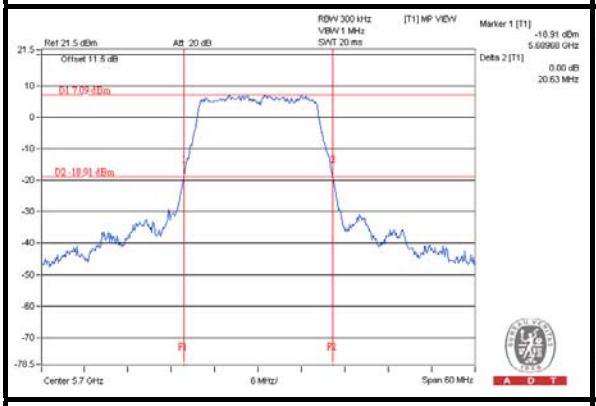
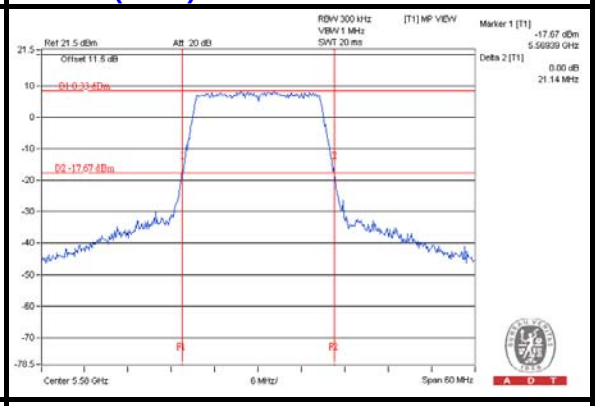
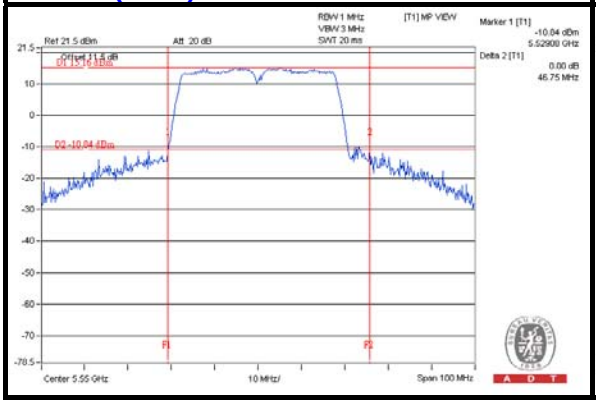
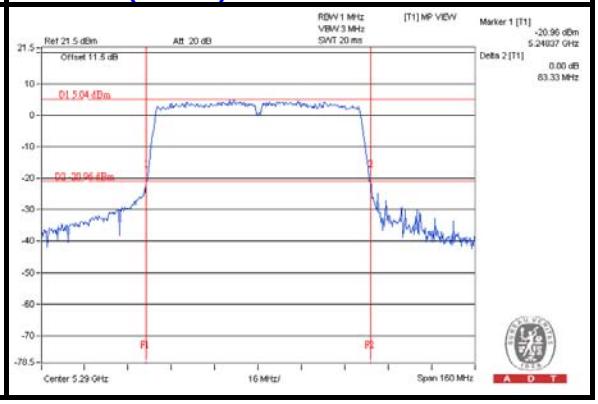
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
52	5260	20.89	20.87	PASS
60	5300	20.89	20.56	PASS
64	5320	20.81	20.62	PASS
100	5500	20.78	20.63	PASS
116	5580	21.14	20.57	PASS
140	5700	20.96	20.56	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
54	5270	46.26	41.47	PASS
62	5310	41.48	41.23	PASS
102	5510	41.49	41.21	PASS
110	5550	46.75	45.67	PASS
134	5670	41.75	41.41	PASS

802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
58	5290	83.20	83.33	PASS
106	5530	83.19	82.44	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Radio 2: Sector antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
52	5260	20.43	20.51	PASS
60	5300	20.43	20.47	PASS
64	5320	20.30	20.35	PASS
100	5500	20.45	20.25	PASS
116	5580	20.43	20.52	PASS
140	5700	20.50	20.53	PASS

802.11n (HT20)

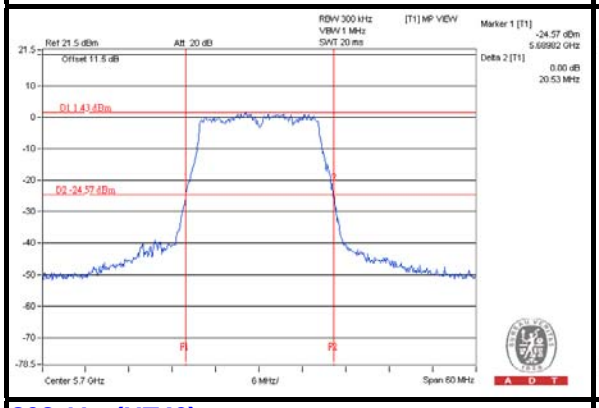
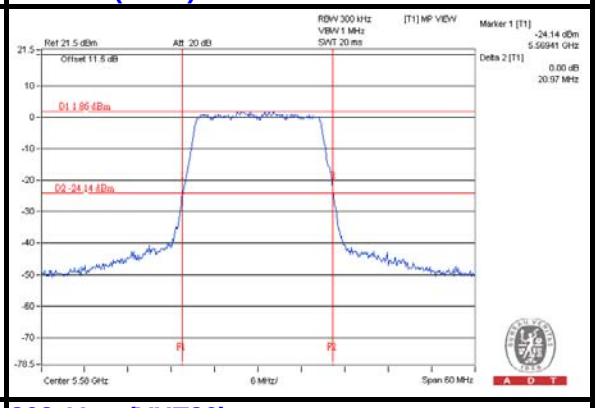
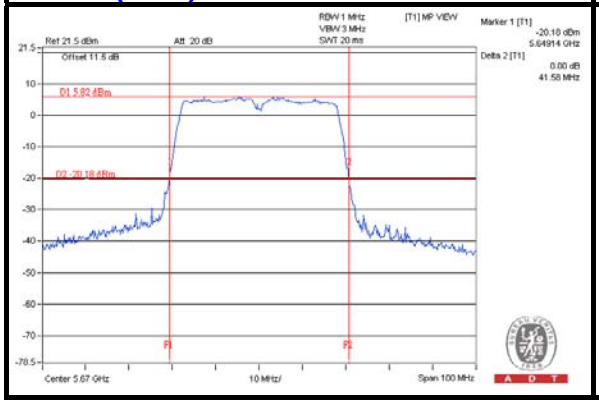
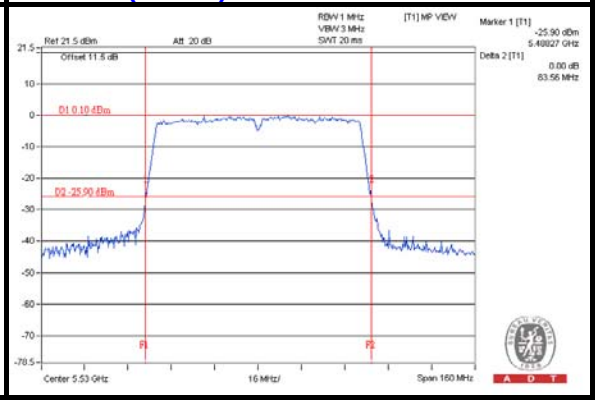
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
52	5260	20.86	20.69	PASS
60	5300	20.75	20.46	PASS
64	5320	20.78	20.55	PASS
100	5500	20.71	20.66	PASS
116	5580	20.97	20.59	PASS
140	5700	20.78	20.63	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
54	5270	41.52	41.10	PASS
62	5310	41.45	41.23	PASS
102	5510	41.52	41.21	PASS
110	5550	41.52	41.22	PASS
134	5670	41.58	41.10	PASS

802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
58	5290	83.33	82.73	PASS
106	5530	83.56	82.17	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Radio 3: PIFA antenna

802.11a

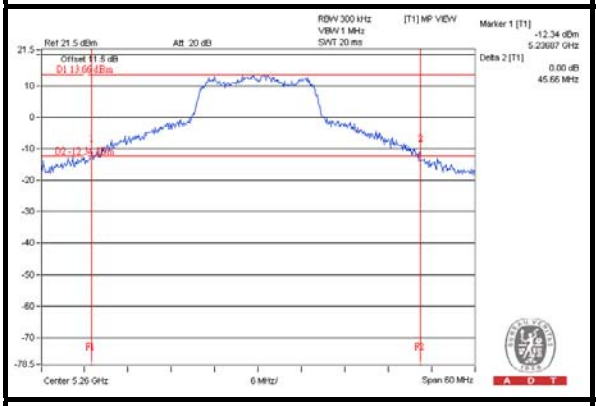
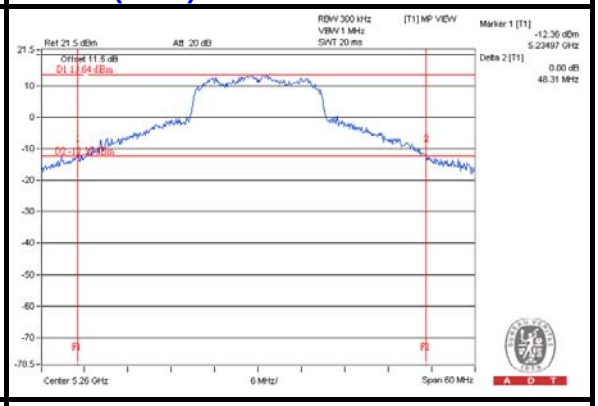
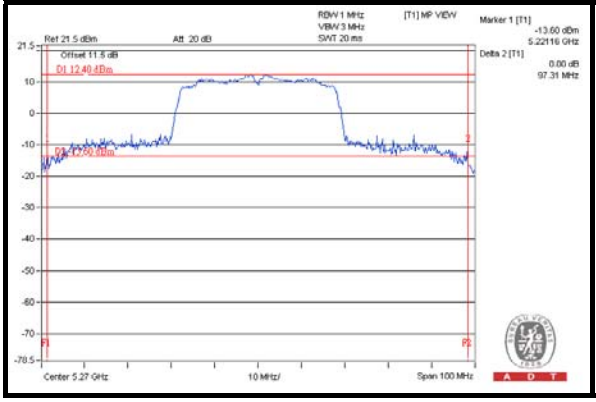
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
52	5260	45.66	PASS
60	5300	42.03	PASS
64	5320	25.52	PASS
100	5500	23.93	PASS
116	5580	43.66	PASS
140	5700	24.34	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
52	5260	48.31	PASS
60	5300	40.07	PASS
64	5320	27.84	PASS
100	5500	22.24	PASS
116	5580	47.03	PASS
140	5700	22.64	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
54	5270	97.31	PASS
62	5310	43.14	PASS
102	5510	41.52	PASS
110	5550	92.92	PASS
134	5670	91.40	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

EUT MAXIMUM CONDUCTED POWER

Radio 2: Dipole antenna

802.11a

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	79.782	19.02
5470~5725	75.650	18.79

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	84.136	19.25
5470~5725	81.188	19.09

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	166.471	22.21
5470~5725	170.508	22.32

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	51.918	17.15
5470~5725	62.960	17.99

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

Radio 2: Patch antenna

802.11a

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	71.779	18.56
5470~5725	69.378	18.41

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	86.192	19.35
5470~5725	80.498	19.06

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	185.255	22.68
5470~5725	180.523	22.57

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	49.905	16.98
5470~5725	87.799	19.43

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

Radio 2: Sector antenna

802.11a

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	23.893	13.78
5470~5725	23.373	13.69

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	25.441	14.06
5470~5725	24.023	13.81

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	49.851	16.98
5470~5725	48.253	16.84

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	23.017	13.62
5470~5725	17.772	12.50

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

Radio 3: PIFA antenna

802.11a

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	154.882	21.90
5470~5725	140.605	21.48

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	156.315	21.94
5470~5725	139.637	21.45

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	53.580	17.29
5470~5725	53.211	17.26

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√	---	11dBm/ MHz
U-NII-2C	√	---	11dBm/ MHz
U-NII-3		---	30dBm/ MHz

4.4.2 TEST SETUP

4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

For U-NII-2A, U-NII-2C band:

Without duty factor:

Using method SA-2

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 30 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value

With duty factor:

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 30 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6.

4.4.7 TEST RESULTS

Radio 2: Dipole antenna

802.11a

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
52	5260	4.21	3.11	6.71	0.09	6.80	6.99	PASS
60	5300	4.07	3.54	6.83	0.09	6.92	6.99	PASS
64	5320	4.08	3.53	6.83	0.09	6.92	6.99	PASS
100	5500	4.21	2.86	6.60	0.09	6.69	6.99	PASS
116	5580	4.09	3.31	6.73	0.09	6.82	6.99	PASS
140	5700	3.86	3.39	6.64	0.09	6.73	6.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 11-(10.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
52	5260	3.83	2.95	6.42	6.99	PASS
60	5300	4.19	2.99	6.64	6.99	PASS
64	5320	4.03	3.14	6.62	6.99	PASS
100	5500	4.07	2.95	6.56	6.99	PASS
116	5580	4.24	3.02	6.68	6.99	PASS
140	5700	3.90	3.30	6.62	6.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 11-(10.01-6) = 6.99dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
54	5270	2.83	1.29	5.14	0.20	5.33	6.99	PASS
62	5310	-0.46	-1.61	2.01	0.20	2.21	6.99	PASS
102	5510	-1.59	-1.60	1.41	0.20	1.61	6.99	PASS
110	5550	3.53	3.05	6.30	0.20	6.50	6.99	PASS
134	5670	2.89	1.28	5.16	0.20	5.36	6.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 11-(10.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

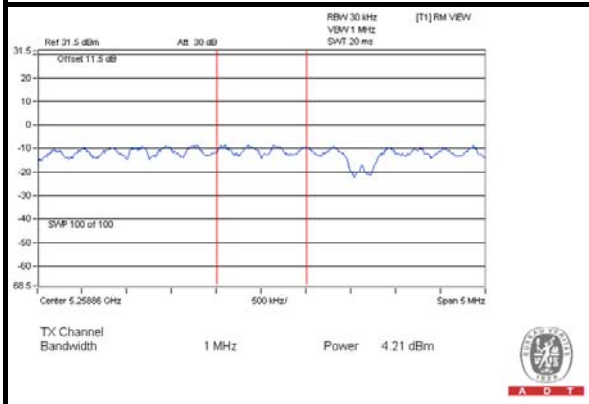
CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
58	5290	-5.30	-7.36	-3.20	0.31	-2.89	6.99	PASS
106	5530	-4.49	-4.20	-1.33	0.31	-1.02	6.99	PASS

NOTE:

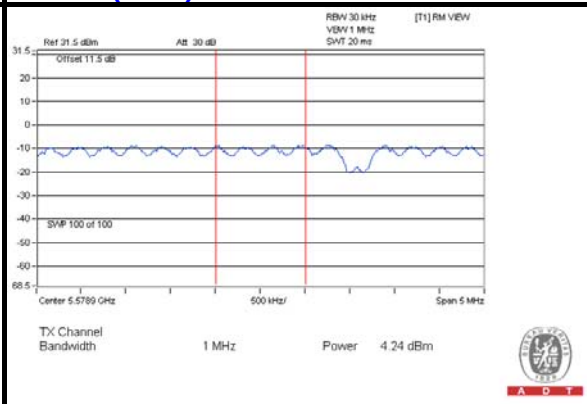
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 11-(10.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

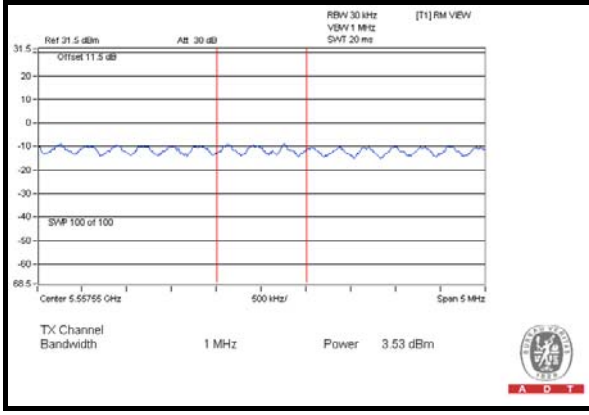
802.11a



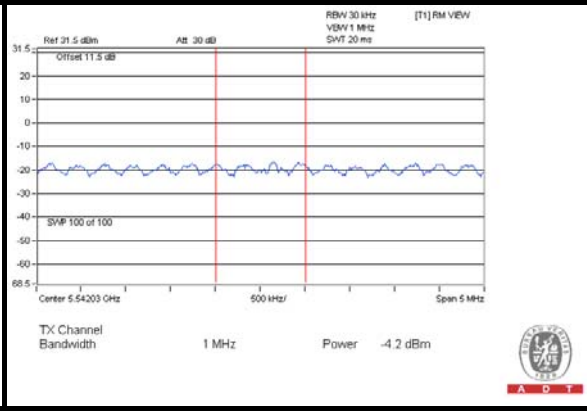
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

802.11a

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
52	5260	3.71	3.17	6.46	6.89	PASS
60	5300	4.31	3.28	6.84	6.89	PASS
64	5320	4.09	3.50	6.82	6.89	PASS
100	5500	4.22	3.37	6.83	6.89	PASS
116	5580	4.19	3.32	6.79	6.89	PASS
140	5700	4.11	2.61	6.43	6.89	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.1dBi + 10log(2) = 10.11dBi > 6dBi, so the power density limit shall be reduced to 11-(10.11-6) = 6.89dBm.

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
52	5260	3.54	2.74	6.17	6.89	PASS
60	5300	4.06	3.24	6.68	6.89	PASS
64	5320	3.94	3.27	6.63	6.89	PASS
100	5500	3.99	3.39	6.71	6.89	PASS
116	5580	4.17	3.45	6.84	6.89	PASS
140	5700	4.06	2.53	6.37	6.89	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.1dBi + 10log(2) = 10.11dBi > 6dBi, so the power density limit shall be reduced to 11-(10.11-6) = 6.89dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
54	5270	3.37	2.66	6.04	0.17	6.21	6.89	PASS
62	5310	-0.65	-1.47	1.97	0.17	2.14	6.89	PASS
102	5510	-0.04	0.08	3.03	0.17	3.20	6.89	PASS
110	5550	3.85	3.42	6.65	0.17	6.82	6.89	PASS
134	5670	2.49	1.44	5.01	0.17	5.18	6.89	PASS

NOTE:

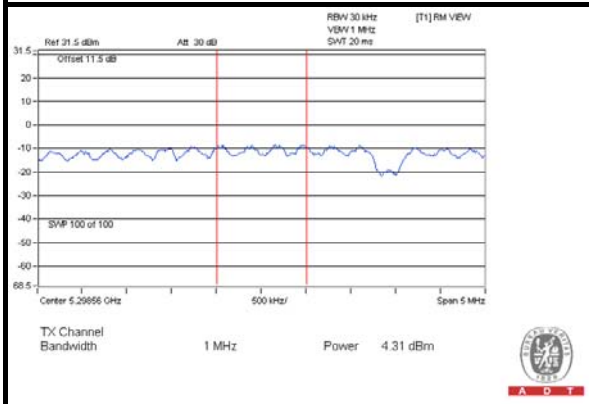
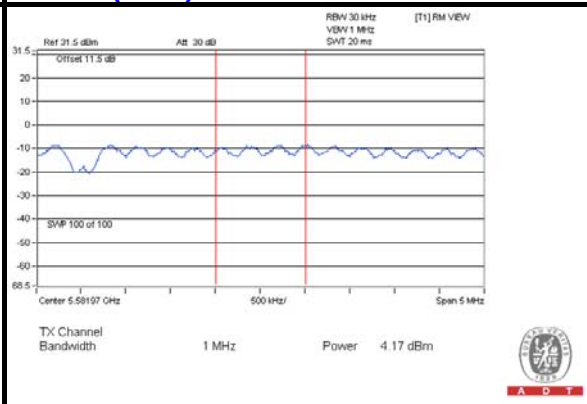
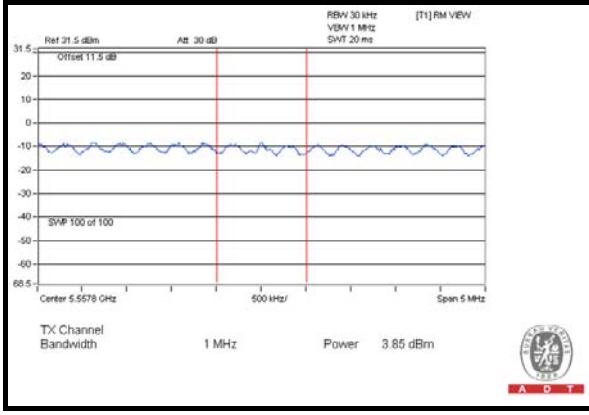
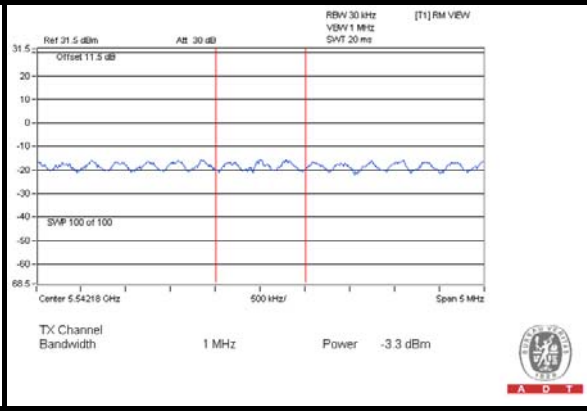
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.1dBi + 10log(2) = 10.11dBi > 6dBi, so the power density limit shall be reduced to 11-(10.11-6) = 6.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
58	5290	-5.74	-6.18	-2.94	0.44	-2.50	6.89	PASS
106	5530	-3.30	-3.51	-0.39	0.44	0.05	6.89	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.1dBi + 10log(2) = 10.11dBi > 6dBi, so the power density limit shall be reduced to 11-(10.11-6) = 6.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (HT20)**
	
802.11n (HT40)	**802.11ac (VHT80)**
	

Radio 2: Sector antenna

802.11a

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
52	5260	-1.74	-3.31	0.56	0.99	PASS
60	5300	-1.75	-2.50	0.90	0.99	PASS
64	5320	-1.64	-2.57	0.93	0.99	PASS
100	5500	-1.79	-2.60	0.83	0.99	PASS
116	5580	-1.71	-2.40	0.97	0.99	PASS
140	5700	-2.13	-2.61	0.65	0.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(2) = 16.01dBi > 6dBi, so the power density limit shall be reduced to 11-(16.01-6) = 0.99dBm.

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
52	5260	-2.00	-2.75	0.65	0.99	PASS
60	5300	-1.58	-2.63	0.94	0.99	PASS
64	5320	-2.31	-2.45	0.63	0.99	PASS
100	5500	-1.79	-2.81	0.74	0.99	PASS
116	5580	-2.12	-2.64	0.64	0.99	PASS
140	5700	-2.48	-2.66	0.44	0.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(2) = 16.01dBi > 6dBi, so the power density limit shall be reduced to 11-(16.01-6) = 0.99dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
54	5270	-2.59	-3.36	0.05	0.15	0.20	0.99	PASS
62	5310	-4.20	-4.75	-1.46	0.15	-1.31	0.99	PASS
102	5510	-4.58	-5.83	-2.15	0.15	-2.00	0.99	PASS
110	5550	-2.02	-3.34	0.38	0.15	0.53	0.99	PASS
134	5670	-3.80	-4.04	-0.91	0.15	-0.76	0.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(2) = 16.01dBi > 6dBi, so the power density limit shall be reduced to 11-(16.01-6) = 0.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

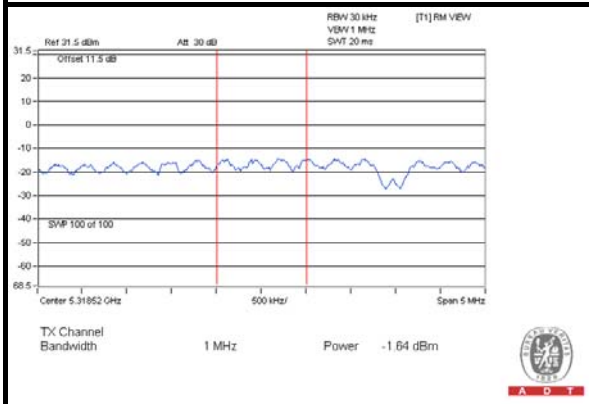
CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
58	5290	-9.64	-9.98	-6.80	0.26	-6.54	0.99	PASS
106	5530	-9.79	-10.74	-7.23	0.26	-6.97	0.99	PASS

NOTE:

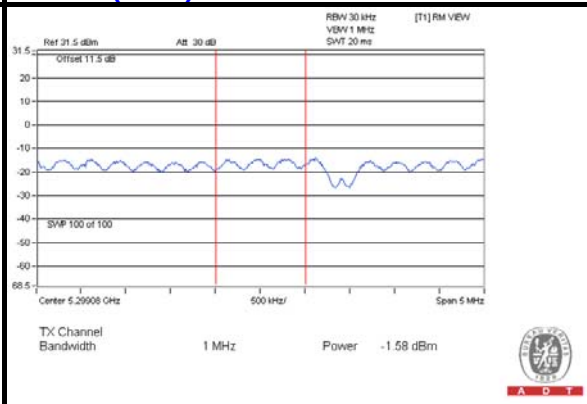
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(2) = 16.01dBi > 6dBi, so the power density limit shall be reduced to 11-(16.01-6) = 0.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

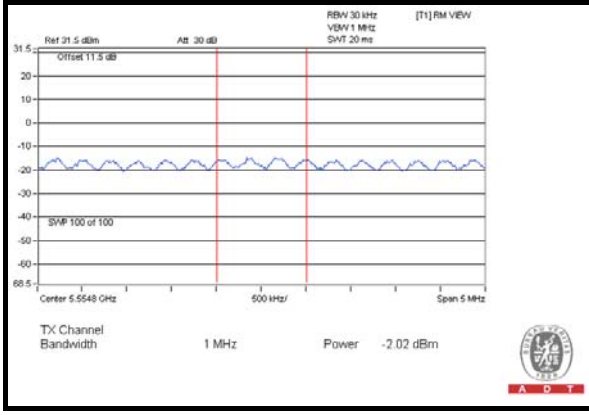
802.11a



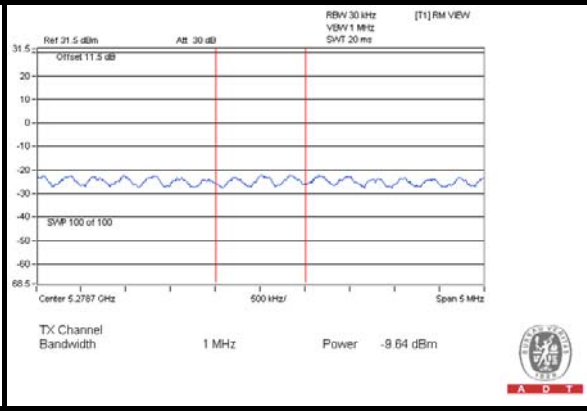
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

802.11a

CHANNEL	FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
52	5260	9.22	10.50	PASS
60	5300	7.90	10.50	PASS
64	5320	3.52	10.50	PASS
100	5500	4.01	10.50	PASS
116	5580	10.24	10.50	PASS
140	5700	3.14	10.50	PASS

NOTE: Gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to 11-(6.5-6) = 10.5dBm.

802.11n (HT20)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
52	5260	9.52	0.11	9.63	10.50	PASS
60	5300	6.77	0.11	6.88	10.50	PASS
64	5320	3.55	0.11	3.66	10.50	PASS
100	5500	2.78	0.11	2.89	10.50	PASS
116	5580	10.11	0.11	10.22	10.50	PASS
140	5700	2.78	0.11	2.89	10.50	PASS

NOTE:

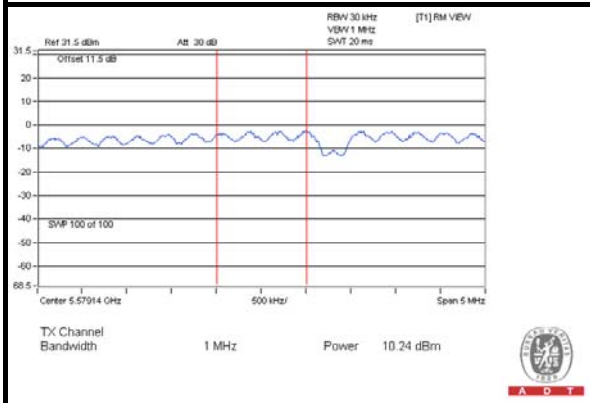
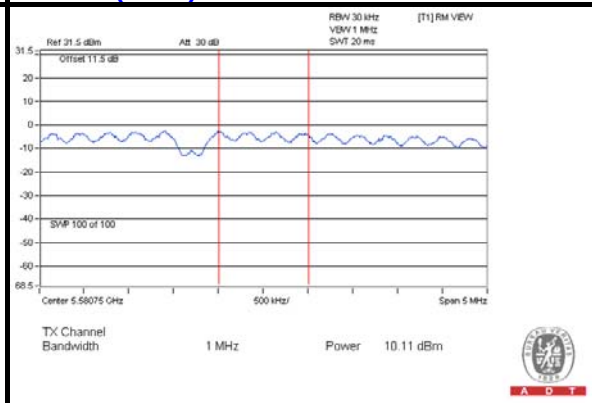
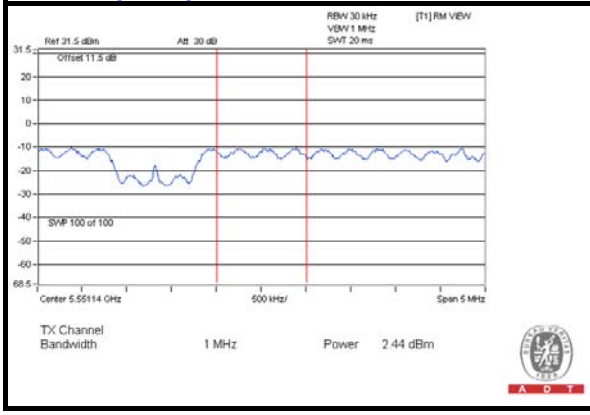
1. Gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to 11-(6.5-6) = 10.5dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
54	5270	2.27	0.15	2.42	10.50	PASS
62	5310	-4.33	0.15	-4.18	10.50	PASS
102	5510	-5.60	0.15	-5.45	10.50	PASS
110	5550	2.44	0.15	2.59	10.50	PASS
134	5670	1.67	0.15	1.82	10.50	PASS

NOTE:

1. Gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to 11-(6.5-6) = 10.5dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

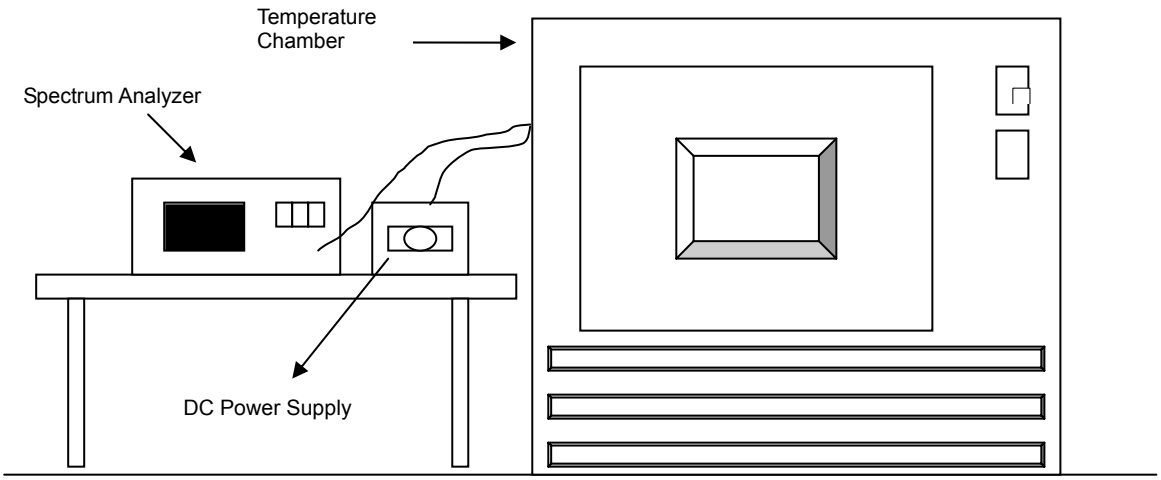
SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (HT20)**
	
802.11n (HT40)	
	

4.5 FREQUENCY STABILITY

4.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

c. Turn the EUT off and set the chamber to the highest temperature specified.

d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.

e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.

f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.

4.5.7 TEST RESULTS

Radio 2: Dipole antenna

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5320.0052	0.00010	5320.0049	0.00009	5320.0028	0.00005	5320.0061	0.00011
40	55	5320.0069	0.00013	5320.0066	0.00012	5320.0053	0.00010	5320.0046	0.00009
30	55	5320.0094	0.00018	5320.0140	0.00026	5320.0127	0.00024	5320.0125	0.00023
20	55	5320.0077	0.00014	5320.0085	0.00016	5320.0075	0.00014	5320.0088	0.00017
10	55	5320.0135	0.00025	5320.0134	0.00025	5320.0134	0.00025	5320.0124	0.00023
0	55	5320.0061	0.00011	5320.0037	0.00007	5320.0055	0.00010	5320.0051	0.00010
-10	55	5319.9933	-0.00013	5319.9942	-0.00011	5319.9903	-0.00018	5319.9909	-0.00017
-20	55	5320.0009	0.00002	5320.0047	0.00009	5320.0036	0.00007	5320.0050	0.00009
-30	55	5320.0264	0.00050	5320.0269	0.00051	5320.0252	0.00047	5320.0243	0.00046

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5320.0068	0.00013	5320.0079	0.00015	5320.0076	0.00014	5320.0078	0.00015
	55	5320.0077	0.00014	5320.0085	0.00016	5320.0075	0.00014	5320.0088	0.00017
	46.75	5320.0068	0.00013	5320.009	0.00017	5320.0074	0.00014	5320.0095	0.00018

Radio 2: Patch antenna

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5320.0209	0.00039	5320.0219	0.00041	5320.0226	0.00042	5320.0242	0.00045
40	55	5320.0049	0.00009	5320.0052	0.00010	5320.0036	0.00007	5320.0051	0.00010
30	55	5320.0209	0.00039	5320.0229	0.00043	5320.0200	0.00038	5320.0203	0.00038
20	55	5319.9922	-0.00015	5319.9934	-0.00012	5319.9924	-0.00014	5319.9897	-0.00019
10	55	5320.0098	0.00018	5320.0137	0.00026	5320.0140	0.00026	5320.0134	0.00025
0	55	5320.0230	0.00043	5320.0230	0.00043	5320.0242	0.00045	5320.0214	0.00040
-10	55	5319.9979	-0.00004	5319.9989	-0.00002	5320.0012	0.00002	5320.0006	0.00001
-20	55	5320.0232	0.00044	5320.0261	0.00049	5320.0237	0.00045	5320.0251	0.00047
-30	55	5320.0129	0.00024	5320.0108	0.00020	5320.0126	0.00024	5320.0079	0.00015

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5319.9915	-0.00016	5319.9931	-0.00013	5319.9925	-0.00014	5319.9891	-0.00020
	55	5319.9922	-0.00015	5319.9934	-0.00012	5319.9924	-0.00014	5319.9897	-0.00019
	46.75	5319.9919	-0.00015	5319.9935	-0.00012	5319.9914	-0.00016	5319.9895	-0.00020

Radio 2: Sector antenna

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5319.9920	-0.00015	5319.9912	-0.00017	5319.9907	-0.00017	5319.9935	-0.00012
40	55	5319.9986	-0.00003	5319.9983	-0.00003	5319.9961	-0.00007	5320.0011	0.00002
30	55	5319.9884	-0.00022	5319.9905	-0.00018	5319.9890	-0.00021	5319.9909	-0.00017
20	55	5320.0144	0.00027	5320.0143	0.00027	5320.0124	0.00023	5320.0112	0.00021
10	55	5319.9988	-0.00002	5320.0024	0.00005	5319.9972	-0.00005	5320.0001	0.00000
0	55	5319.9752	-0.00047	5319.9761	-0.00045	5319.9725	-0.00052	5319.9752	-0.00047
-10	55	5320.0095	0.00018	5320.0117	0.00022	5320.0119	0.00022	5320.0073	0.00014
-20	55	5319.9986	-0.00003	5319.9978	-0.00004	5319.9963	-0.00007	5319.9940	-0.00011
-30	55	5320.0221	0.00042	5320.0196	0.00037	5320.0217	0.00041	5320.0192	0.00036

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5320.0139	0.00026	5320.0148	0.00028	5320.0125	0.00023	5320.0106	0.00020
	55	5320.0144	0.00027	5320.0143	0.00027	5320.0124	0.00023	5320.0112	0.00021
	46.75	5320.0137	0.00026	5320.0149	0.00028	5320.0133	0.00025	5320.0115	0.00022

Radio 3: PIFA antenna

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5319.9870	-0.00024	5319.9869	-0.00025	5319.9857	-0.00027	5319.9867	-0.00025
40	55	5319.9934	-0.00012	5319.9924	-0.00014	5319.9936	-0.00012	5319.9896	-0.00020
30	55	5320.0134	0.00025	5320.0139	0.00026	5320.0132	0.00025	5320.0141	0.00027
20	55	5320.0225	0.00042	5320.0213	0.00040	5320.0185	0.00035	5320.0214	0.00040
10	55	5320.0210	0.00039	5320.0161	0.00030	5320.0163	0.00031	5320.0203	0.00038
0	55	5320.0222	0.00042	5320.0208	0.00039	5320.0201	0.00038	5320.021	0.00039
-10	55	5319.9788	-0.00040	5319.9805	-0.00037	5319.9784	-0.00041	5319.9819	-0.00034
-20	55	5320.0260	0.00049	5320.0268	0.00050	5320.0272	0.00051	5320.0257	0.00048
-30	55	5319.9952	-0.00009	5319.9914	-0.00016	5319.9933	-0.00013	5319.9927	-0.00014

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5320.0232	0.00044	5320.0205	0.00039	5320.0179	0.00034	5320.0217	0.00041
	55	5320.0225	0.00042	5320.0213	0.00040	5320.0185	0.00035	5320.0214	0.00040
	46.75	5320.0224	0.00042	5320.0205	0.00039	5320.0192	0.00036	5320.0219	0.00041

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6. INFORMATION ON THE TESTING LABORATORIES

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

If you have any comments, please feel free to contact us at the following:

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

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

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

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