FCC Test Report

Report No.:	RF160819C08B
FCC ID:	UDX-60057010
Test Model:	MR74-HW
Received Date:	Aug. 19, 2016
Test Date:	Aug. 31 ~ Nov. 25, 2016
Issued Date:	Dec. 09, 2016
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 Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

Testing Laboratory
2021

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
RF160819C08B	Original release	Dec. 09, 2016

1 Certificate of Conformity

Product:	AP Outdoor
Brand:	Cisco
Test Model:	MR74-HW
Sample Status:	Engineering sample
Applicant:	Cisco Systems, Inc.
Test Date:	Aug. 31 ~ Nov. 25, 2016
Standards:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10:2013

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

Prepared by : _____ , **Date:** Dec. 09, 2016

Suntee Liu / Specialist

Approved by : _____ , **Date:** Dec. 09, 2016

Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -8.04dB at 13.71484MHz.
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.1dB at 5350.00MHz.
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 Omni-direction, Sector, Patch antennas: 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	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	AP Outdoor
Brand	Cisco
Test Model	MR74-HW
Sample Status	Engineering sample
Power Supply Rating	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 867.0Mbps
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	Radio 2, Ant. No. 20: CDD Mode 5260 ~ 5320MHz: 172.459mW 5500 ~ 5700MHz: 180.326mW Beamforming Mode 5260 ~ 5320MHz: 86.236mW 5500 ~ 5700MHz: 90.170mW Radio 2, Ant. No. 21: CDD Mode 5260 ~ 5320MHz: 43.729mW 5500 ~ 5700MHz: 48.102mW Beamforming Mode 5260 ~ 5320MHz: 21.866mW 5500 ~ 5700MHz: 24.053mW Radio 2, Ant. No. 25: CDD Mode 5260 ~ 5320MHz: 178.969mW 5500 ~ 5700MHz: 185.177mW Beamforming Mode 5260 ~ 5320MHz: 89.491mW 5500 ~ 5700MHz: 92.595mW Radio 2, Ant. No. 27: CDD Mode 5260 ~ 5320MHz: 59.850mW 5500 ~ 5700MHz: 68.402mW Beamforming Mode 5260 ~ 5320MHz: 29.927mW 5500 ~ 5700MHz: 34.203mW Radio 2, Ant. No. AIR-ANT2513P4M-N: CDD Mode 5260 ~ 5320MHz: 43.729mW 5500 ~ 5700MHz: 48.102mW Beamforming Mode 5260 ~ 5320MHz: 21.866mW 5500 ~ 5700MHz: 24.053mW Radio 3: 5260 ~ 5320MHz: 66.374mW 5500 ~ 5700MHz: 68.234mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Antenna, 1m non-shielded ground cable w/o core
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class III permissive change. This report is issued as a supplementary report of the original report no.: RF160819C08-1. The difference compared with the original report is adding 5.26GHz to 5.32GHz and 5.50GHz to 5.70GHz by software.
2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

2.4GHz Band			
Modulation Mode	TX Function	Beamforming	Remark
802.11b	2TX	Not Support	Radio 1
802.11g	2TX	Not Support	
802.11n (HT20)	2TX	Support	
802.11n (HT40)	2TX	Support	
802.11b	1TX	Not Support	Radio 3
802.11g	1TX	Not Support	
802.11n (HT20)	1TX	Not Support	
802.11n (HT40)	1TX	Not Support	
5GHz Band			
Modulation Mode	TX Function	Beamforming	Remark
802.11a	2TX	Not Support	Radio 2
802.11n (HT20)	2TX	Support	
802.11n (HT40)	2TX	Support	
802.11ac (VHT20)	2TX	Support	
802.11ac (VHT40)	2TX	Support	
802.11ac (VHT80)	2TX	Support	
802.11a	1TX	Not Support	Radio 3
802.11n (HT20)	1TX	Not Support	
802.11n (HT40)	1TX	Not Support	
802.11ac (VHT20)	1TX	Not Support	
802.11ac (VHT40)	1TX	Not Support	
802.11ac (VHT80)	1TX	Not Support	

* The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

* For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

3. The EUT consumes power from the following POE. (support unit only)

Brand	CISCO
Model	MA-INJ-4
Input Power	100-240Vac, 50/60Hz, 0.67A
Output Power	55Vdc, 0.6A
Power Line	1.4m non-shielded AC cable without core

4. The EUT uses following antennas.

Ant. No.	Ant. Type	Connecter	Cable	Antenna Gain (dBi) Frequency (GHz)		Remark
				2.4	5	
20	Omni-directional	N-Type	-	4	7	Radio 1 (WLAN 2.4G), Radio 2 (WLAN 5G)
21	Sector	N-Type	0.35m coaxial X2	-	13	
23			0.35m coaxial X2	11	-	
25	Sector	N-Type	0.35m coaxial X2	8.1	7.1	
27	Sector	N-Plug	0.35m coaxial X2	9.8	11.3	
AIR-ANT2513 P4M-N	Patch	N-Female Bulkhead	3m coaxial X2	13	13	

Ant. No.	Ant. Type	Connecter	Cable	Antenna Gain (dBi) Frequency (GHz)									Remark
				2.4	2.45	2.5	4.9	5.15	5.35	5.475	5.725	5.875	
-	PIFA	NA	-	3.0	3.7	3.9	6.3	5.2	4.9	4.6	4.8	4.1	Radio 3 (WLAN 2.4G, 5G)
-	PIFA	NA	-	5.3	5.6	4.6	-	-	-	-	-	-	Radio 4 (BT LE)

* The 2.4GHz max. gain of PIFA antenna was chosen for final test.
* The 5GHz max. gain of PIFA antenna was chosen for final test.

5. 2.4GHz, 5GHz and BT LE technology can transmit at same time.
6. Spurious emission of the simultaneous operation (2.4GHz, 5GHz and BT LE) has been evaluated and no non-compliance was found.

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	5290 MHz

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	
A	√	√	√	√	EUT with Omni-directional ant. (Ant. 20)
B	√	√	√	√	EUT with sector ant. (Ant. 21)
C	√	√	√	√	EUT with sector ant. (Ant. 25)
D	√	√	√	√	EUT with sector ant. (Ant. 27)
E	√	√	√	√	EUT with Patch ant. (AIR-ANT2513P4M-N)
F	√	√	√	√	EUT with PIFA ant.

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement 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
A, B, C, D, E	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	Radio 2 (2TX)
F			52 to 64	52, 60, 64	OFDM	BPSK	6.0	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2	Radio 2 (2TX)
F			52 to 64	52, 60, 64	OFDM	BPSK	6.5	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0	Radio 2 (2TX)
F			54 to 62	54, 62	OFDM	BPSK	13.5	Radio 3 (1TX)
A, B, C, D, E	802.11ac (VHT80)		58	58	OFDM	BPSK	65.0	Radio 2 (2TX)
F			58	58	OFDM	BPSK	29.3	Radio 3 (1TX)
A, B, C, D, E	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	Radio 2 (2TX)
F			100 to 140	100, 116, 140	OFDM	BPSK	6.0	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2	Radio 2 (2TX)
F			100 to 140	100, 116, 140	OFDM	BPSK	6.5	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0	Radio 2 (2TX)
F			102 to 134	102, 110, 134	OFDM	BPSK	13.5	Radio 3 (1TX)
A, B, C, D, E	802.11ac (VHT80)		106	106	OFDM	BPSK	65.0	Radio 2 (2TX)
F			106	106	OFDM	BPSK	29.3	Radio 3 (1TX)

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
A, B, C, D, E	802.11a	5260-5320	52 to 64	60	OFDM	BPSK	6.0	Radio 2 (2TX)
		5500-5700	100 to 140		OFDM	BPSK	6.0	Radio 2 (2TX)
F	802.11a	5260-5320	52 to 64	60	OFDM	BPSK	6.0	Radio 3 (1TX)
		5500-5700	100 to 140		OFDM	BPSK	6.0	Radio 3 (1TX)

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
A, B, C, D, E	802.11a	5260-5320	52 to 64	60	OFDM	BPSK	6.0	Radio 2 (2TX)
		5500-5700	100 to 140		OFDM	BPSK	6.0	Radio 2 (2TX)
F	802.11a	5260-5320	52 to 64	60	OFDM	BPSK	6.0	Radio 3 (1TX)
		5500-5700	100 to 140		OFDM	BPSK	6.0	Radio 3 (1TX)

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
A, B, C, D, E	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	Radio 2 (2TX)
F			52 to 64	52, 60, 64	OFDM	BPSK	6.0	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2	Radio 2 (2TX)
F			52 to 64	52, 60, 64	OFDM	BPSK	6.5	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0	Radio 2 (2TX)
F			54 to 62	54, 62	OFDM	BPSK	13.5	Radio 3 (1TX)
A, B, C, D, E	802.11ac (VHT80)		58	58	OFDM	BPSK	65.0	Radio 2 (2TX)
F			58	58	OFDM	BPSK	29.3	Radio 3 (1TX)
A, B, C, D, E	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	Radio 2 (2TX)
F			100 to 140	100, 116, 140	OFDM	BPSK	6.0	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2	Radio 2 (2TX)
F			100 to 140	100, 116, 140	OFDM	BPSK	6.5	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0	Radio 2 (2TX)
F			102 to 134	102, 110, 134	OFDM	BPSK	13.5	Radio 3 (1TX)
A, B, C, D, E	802.11ac (VHT80)		106	106	OFDM	BPSK	65.0	Radio 2 (2TX)
F			106	106	OFDM	BPSK	29.3	Radio 3 (1TX)

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE≥1G	19 deg. C, 70% RH 18 deg. C, 70% RH	120Vac, 60Hz	Jones Chang James Yang Nick Hsu
RE<1G	16 deg. C, 70% RH	120Vac, 60Hz	Nick Hsu
PLC	20 deg. C, 70% RH	120Vac, 60Hz	Jones Chang
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Leo Tsai Frank Liu Jones Chang

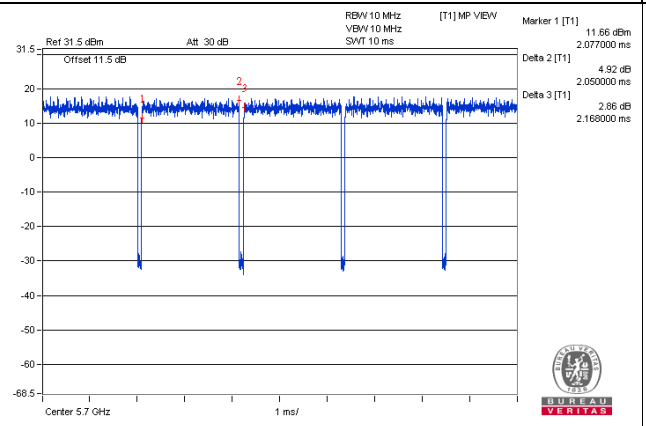
3.3 Duty Cycle of Test Signal

Duty cycle of test signal is ≥ 98%, duty factor is not required.
Duty cycle of test signal is < 98%, duty factor shall be considered.

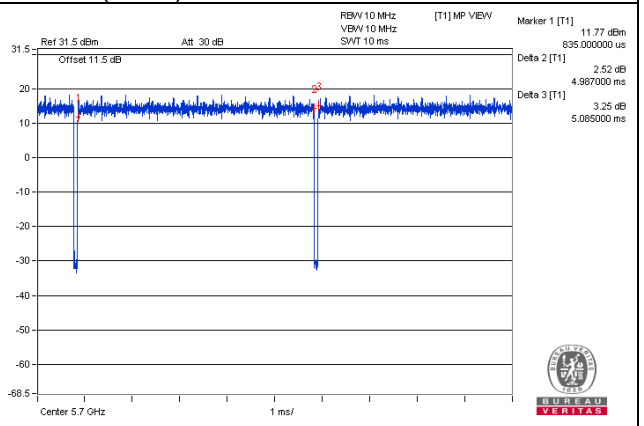
Radio 2

802.11a: Duty cycle = 2.05/2.168 = 0.946, Duty factor = 10 * log(1/0.946) = 0.24
802.11n (HT20): Duty cycle = 4.987/5.085 = 0.981
802.11n (HT40): Duty cycle = 2.39/2.488 = 0.961, Duty factor = 10 * log(1/0.961) = 0.17
802.11ac (VHT80): Duty cycle = 1.122/1.234 = 0.909, Duty factor = 10 * log(1/0.909) = 0.41

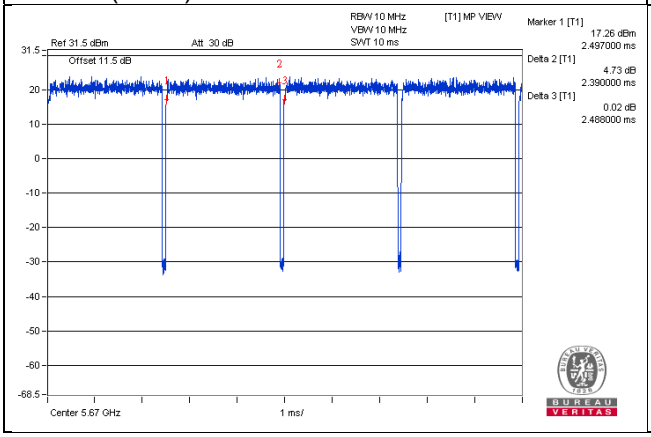
802.11a



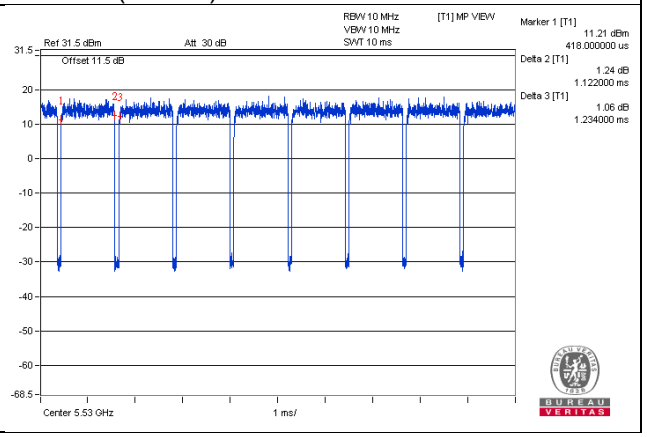
802.11n (HT20)



802.11n (HT40)



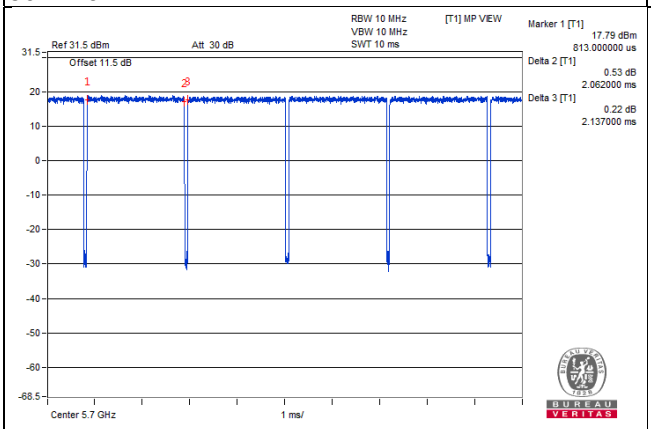
802.11ac (VHT80)



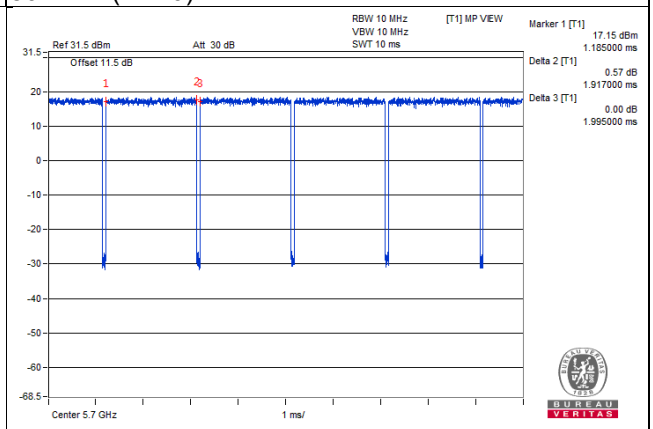
Radio 3

802.11a: Duty cycle = 2.062/2.137 = 0.965, Duty factor = 10 * log(1/0.965) = 0.16
802.11n (HT20): Duty cycle = 1.917/1.995 = 0.961, Duty factor = 10 * log(1/0.961) = 0.17
802.11n (HT40): Duty cycle = 0.946/1.02 = 0.927, Duty factor = 10 * log(1/0.927) = 0.33
802.11ac (VHT80): Duty cycle = 0.463/0.6 = 0.772, Duty factor = 10 * log(1/0.772) = 1.13

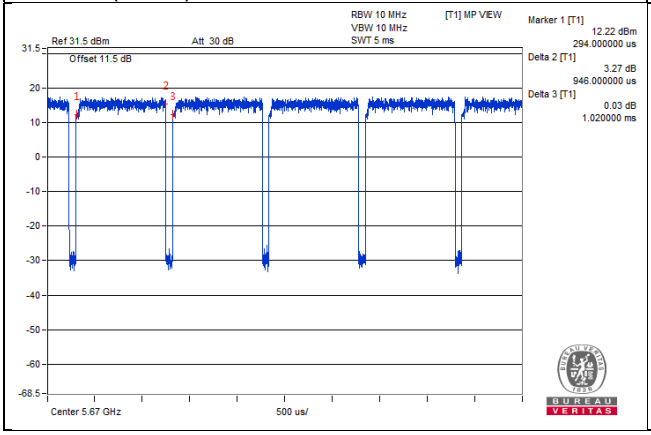
802.11a



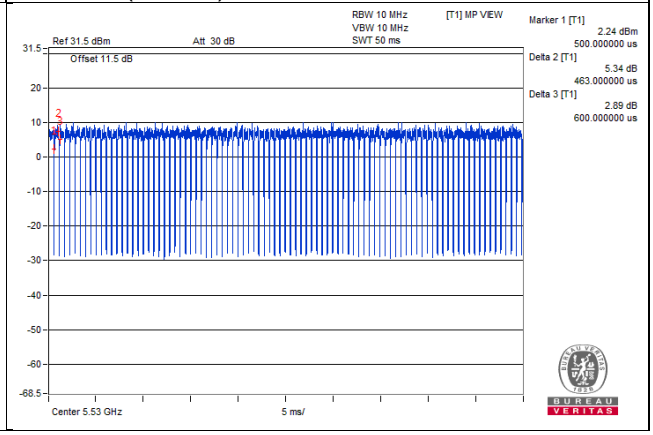
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



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.

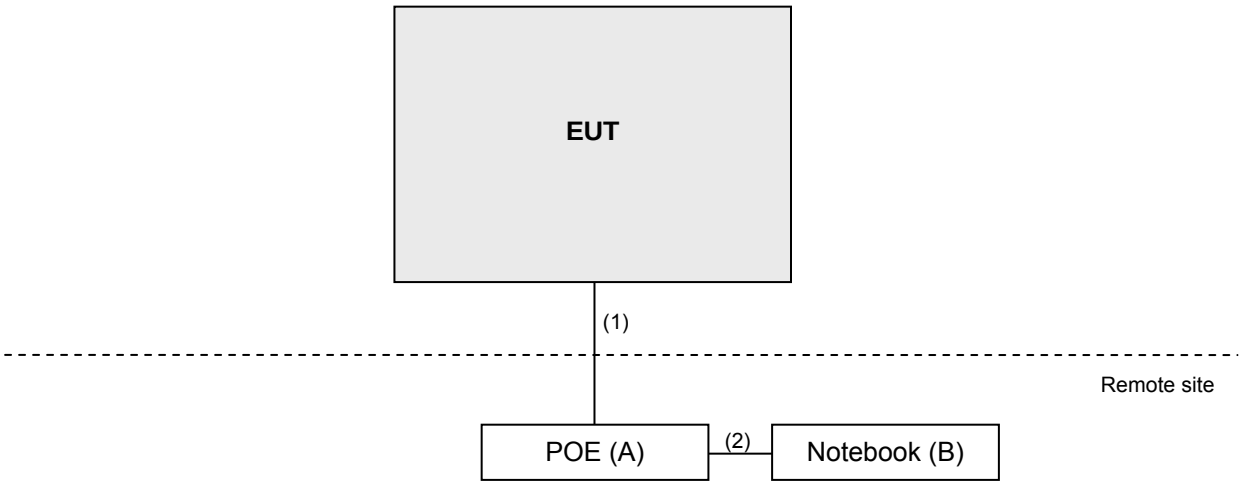
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	POE	CISCO	MA-INJ-4	N/A	N/A	Provided by manufacturer
B.	Notebook	DELL	Latitude E6420	HPFC5Q1	FCC DoC Approved	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item B acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	3	N	0	-
2.	RJ45, Cat5e	1	1.8	N	0	-

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General UNII Test Procedure New Rules v01r03
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

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

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.

Limits of Unwanted Emission Out of the Restricted Bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v01r03			Field Strength at 3m	
			PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☐	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

NOTE: 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).

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Apr. 18, 2016	Apr. 17, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Sep. 02, 2015	Sep. 01, 2016
			Sep. 02, 2016	Sep. 01, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	9120D	209	Jan. 20, 2016	Jan. 19, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Jan. 18, 2016	Jan. 17, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8447D	2944A10738	Aug. 22, 2016	Aug. 21, 2017
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (214378)	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2016	Aug. 21, 2017
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 BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824011	Jul. 09, 2016	Jul. 08, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2015	Oct. 17, 2016
			Oct. 17, 2016	Oct. 16, 2017

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 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.

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Both X and Y axes of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case 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 Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

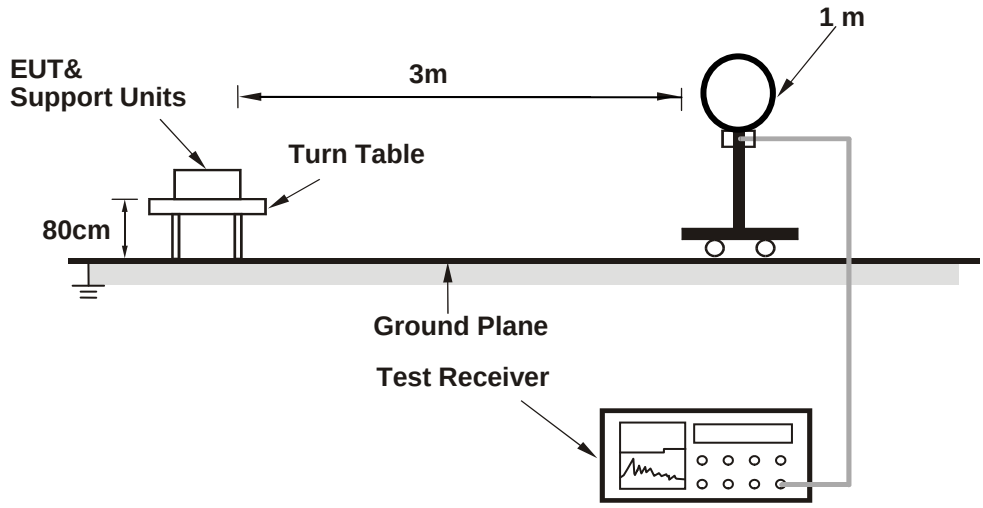
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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.

4.1.4 Deviation from Test Standard

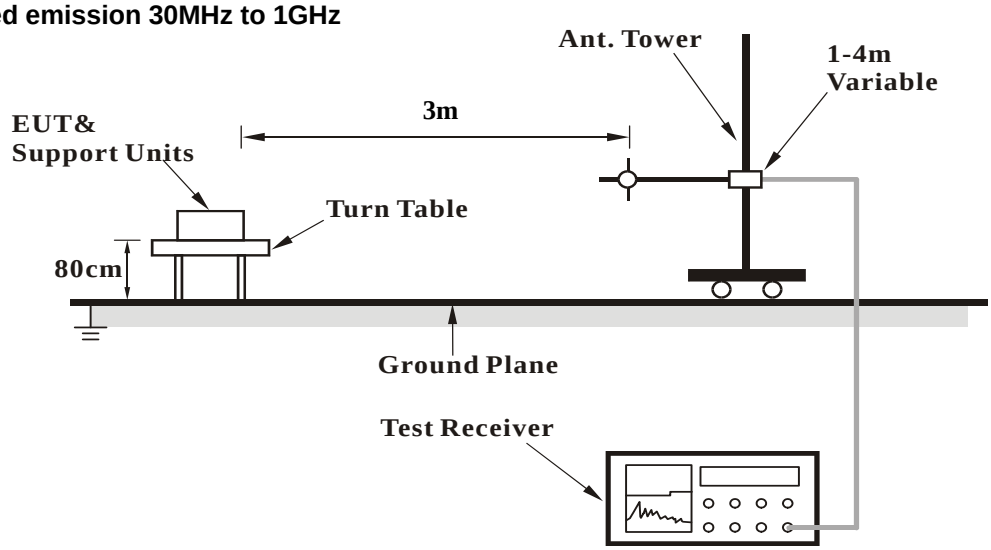
No deviation.

4.1.5 Test Setup

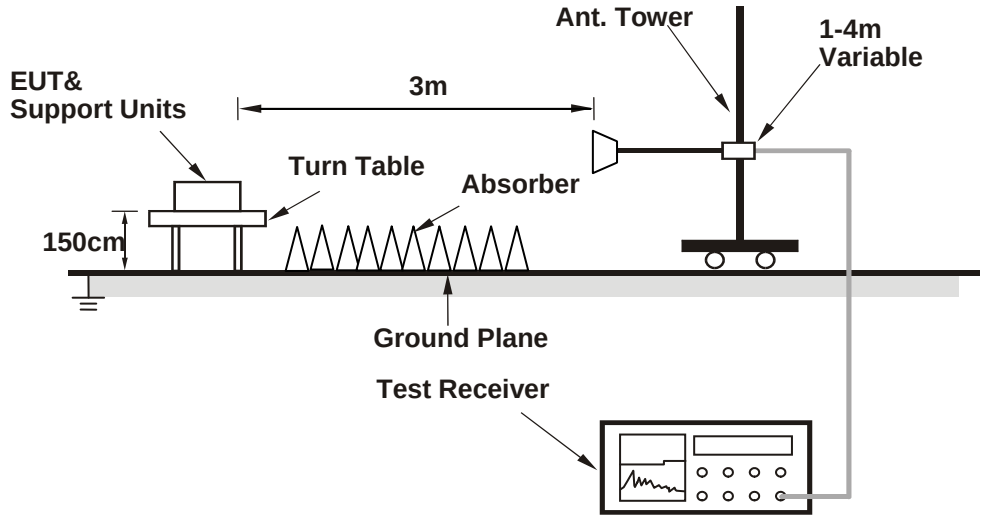
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on the testing table.
b. Prepared a notebook to act as a communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and ran 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".

4.1.7 Test Results

Test Mode A

Above 1GHz worst-Case Data:

802.11a

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	5040.00	55.1 PK	74.0	-18.9	1.60 H	284	50.7	4.4
2	5040.00	43.9 AV	54.0	-10.1	1.60 H	284	39.5	4.4
3	*5260.00	107.9 PK			1.55 H	126	69.0	38.9
4	*5260.00	97.2 AV			1.55 H	126	58.3	38.9
5	#10520.00	60.3 PK	74.0	-13.7	2.00 H	79	41.7	18.6
6	#10520.00	47.3 AV	54.0	-6.7	2.00 H	79	28.7	18.6
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	58.2 PK	74.0	-15.8	1.71 V	348	53.8	4.4
2	5040.00	46.1 AV	54.0	-7.9	1.71 V	348	41.7	4.4
3	*5260.00	120.3 PK			1.65 V	33	81.4	38.9
4	*5260.00	109.8 AV			1.65 V	33	70.9	38.9
5	#10520.00	60.7 PK	74.0	-13.3	2.04 V	155	42.1	18.6
6	#10520.00	47.9 AV	54.0	-6.1	2.04 V	155	29.3	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	107.6 PK			1.72 H	129	68.5	39.1
2	*5300.00	97.0 AV			1.72 H	129	57.9	39.1
3	10600.00	60.4 PK	74.0	-13.6	1.56 H	100	41.9	18.5
4	10600.00	47.3 AV	54.0	-6.7	1.56 H	100	28.8	18.5
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	119.2 PK			1.61 V	0	80.1	39.1
2	*5300.00	109.1 AV			1.61 V	0	70.0	39.1
3	10600.00	60.5 PK	74.0	-13.5	1.90 V	249	42.0	18.5
4	10600.00	47.6 AV	54.0	-6.4	1.90 V	249	29.1	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	107.1 PK			1.60 H	126	68.0	39.1
2	*5320.00	96.6 AV			1.60 H	126	57.5	39.1
3	5350.00	58.9 PK	74.0	-15.1	1.62 H	130	53.4	5.5
4	5350.00	45.9 AV	54.0	-8.1	1.62 H	130	40.4	5.5
5	10640.00	60.0 PK	74.0	-14.0	1.88 H	279	41.5	18.5
6	10640.00	47.0 AV	54.0	-7.0	1.88 H	279	28.5	18.5
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	118.5 PK			1.84 V	36	79.4	39.1
2	*5320.00	108.0 AV			1.84 V	36	68.9	39.1
3	5350.00	66.9 PK	74.0	-7.1	1.73 V	4	61.4	5.5
4	5350.00	52.6 AV	54.0	-1.4	1.73 V	4	47.1	5.5
5	10640.00	60.2 PK	74.0	-13.8	1.66 V	166	41.7	18.5
6	10640.00	47.2 AV	54.0	-6.8	1.66 V	166	28.7	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	56.3 PK	74.0	-17.7	2.64 H	118	50.6	5.7
2	5460.00	44.0 AV	54.0	-10.0	2.64 H	118	38.3	5.7
3	#5470.00	56.8 PK	74.0	-17.2	1.49 H	122	51.1	5.7
4	#5470.00	43.8 AV	54.0	-10.2	1.49 H	122	38.1	5.7
5	*5500.00	108.3 PK			1.64 H	115	68.7	39.6
6	*5500.00	97.8 AV			1.64 H	115	58.2	39.6
7	11000.00	60.1 PK	74.0	-13.9	2.54 H	159	40.4	19.7
8	11000.00	47.6 AV	54.0	-6.4	2.54 H	159	27.9	19.7
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	62.4 PK	74.0	-11.6	1.40 V	40	56.7	5.7
2	5460.00	48.2 AV	54.0	-5.8	1.40 V	40	42.5	5.7
3	#5470.00	68.6 PK	74.0	-5.4	1.44 V	45	62.9	5.7
4	#5470.00	52.6 AV	54.0	-1.4	1.44 V	45	46.9	5.7
5	*5500.00	121.0 PK			1.40 V	29	81.4	39.6
6	*5500.00	110.6 AV			1.40 V	29	71.0	39.6
7	11000.00	60.9 PK	74.0	-13.1	1.68 V	58	41.2	19.7
8	11000.00	47.5 AV	54.0	-6.5	1.68 V	58	27.8	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	108.9 PK			1.63 H	118	69.1	39.8
2	*5580.00	98.4 AV			1.63 H	118	58.6	39.8
3	11160.00	60.6 PK	74.0	-13.4	2.84 H	263	41.1	19.5
4	11160.00	47.2 AV	54.0	-6.8	2.84 H	263	27.7	19.5
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	120.7 PK			1.44 V	217	80.9	39.8
2	*5580.00	110.2 AV			1.44 V	217	70.4	39.8
3	11160.00	60.5 PK	74.0	-13.5	1.90 V	226	41.0	19.5
4	11160.00	47.2 AV	54.0	-6.8	1.90 V	226	27.7	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	103.7 PK			1.75 H	119	63.8	39.9
2	*5700.00	93.0 AV			1.75 H	119	53.1	39.9
3	#5725.00	57.8 PK	74.0	-16.2	1.62 H	117	51.5	6.3
4	#5725.00	44.1 AV	54.0	-9.9	1.62 H	117	37.8	6.3
5	11400.00	61.5 PK	74.0	-12.5	1.83 H	248	42.2	19.3
6	11400.00	48.0 AV	54.0	-6.0	1.83 H	248	28.7	19.3
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	118.0 PK			1.59 V	28	78.1	39.9
2	*5700.00	107.5 AV			1.59 V	28	67.6	39.9
3	#5725.00	67.9 PK	74.0	-6.1	1.46 V	33	61.6	6.3
4	#5725.00	52.7 AV	54.0	-1.3	1.46 V	33	46.4	6.3
5	11400.00	61.2 PK	74.0	-12.8	1.58 V	224	41.9	19.3
6	11400.00	48.2 AV	54.0	-5.8	1.58 V	224	28.9	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5040.00	54.5 PK	74.0	-19.5	1.49 H	26	50.1	4.4
2	5040.00	43.7 AV	54.0	-10.3	1.49 H	26	39.3	4.4
3	*5260.00	108.5 PK			1.66 H	126	69.6	38.9
4	*5260.00	98.0 AV			1.66 H	126	59.1	38.9
5	#10520.00	59.6 PK	74.0	-14.4	1.80 H	211	41.0	18.6
6	#10520.00	46.7 AV	54.0	-7.3	1.80 H	211	28.1	18.6
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	57.7 PK	74.0	-16.3	1.60 V	22	53.3	4.4
2	5040.00	45.4 AV	54.0	-8.6	1.60 V	22	41.0	4.4
3	*5260.00	85.9 PK			1.61 V	40	80.7	5.2
4	*5260.00	76.1 AV			1.61 V	40	70.9	5.2
5	#10520.00	60.1 PK	74.0	-13.9	2.01 V	240	41.5	18.6
6	#10520.00	47.0 AV	54.0	-7.0	2.01 V	240	28.4	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	107.8 PK			1.61 H	125	68.7	39.1
2	*5300.00	96.9 AV			1.61 H	125	57.8	39.1
3	10600.00	60.1 PK	74.0	-13.9	1.89 H	177	41.6	18.5
4	10600.00	46.9 AV	54.0	-7.1	1.89 H	177	28.4	18.5
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	119.9 PK			1.83 V	39	80.8	39.1
2	*5300.00	109.3 AV			1.83 V	39	70.2	39.1
3	10600.00	60.4 PK	74.0	-13.6	1.69 V	80	41.9	18.5
4	10600.00	47.5 AV	54.0	-6.5	1.69 V	80	29.0	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	106.7 PK			1.63 H	126	67.6	39.1
2	*5320.00	96.7 AV			1.63 H	126	57.6	39.1
3	5350.00	57.8 PK	74.0	-16.2	1.72 H	313	52.3	5.5
4	5350.00	46.0 AV	54.0	-8.0	1.72 H	313	40.5	5.5
5	10640.00	60.0 PK	74.0	-14.0	1.50 H	37	41.5	18.5
6	10640.00	47.4 AV	54.0	-6.6	1.50 H	37	28.9	18.5
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	119.2 PK			1.83 V	7	80.1	39.1
2	*5320.00	107.8 AV			1.83 V	7	68.7	39.1
3	5350.00	66.2 PK	74.0	-7.8	1.82 V	22	60.7	5.5
4	5350.00	52.3 AV	54.0	-1.7	1.82 V	22	46.8	5.5
5	10640.00	60.1 PK	74.0	-13.9	1.60 V	359	41.6	18.5
6	10640.00	47.4 AV	54.0	-6.6	1.60 V	359	28.9	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	57.6 PK	74.0	-16.4	1.58 H	135	51.9	5.7
2	5460.00	43.4 AV	54.0	-10.6	1.58 H	135	37.7	5.7
3	#5470.00	59.2 PK	74.0	-14.8	1.55 H	120	53.5	5.7
4	#5470.00	44.6 AV	54.0	-9.4	1.55 H	120	38.9	5.7
5	*5500.00	107.0 PK			1.63 H	121	67.4	39.6
6	*5500.00	96.5 AV			1.63 H	121	56.9	39.6
7	11000.00	59.8 PK	74.0	-14.2	1.97 H	183	40.1	19.7
8	11000.00	46.9 AV	54.0	-7.1	1.97 H	183	27.2	19.7
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	62.2 PK	74.0	-11.8	1.49 V	37	56.5	5.7
2	5460.00	47.8 AV	54.0	-6.2	1.49 V	37	42.1	5.7
3	#5470.00	67.3 PK	74.0	-6.7	1.29 V	28	61.6	5.7
4	#5470.00	52.5 AV	54.0	-1.5	1.29 V	28	46.8	5.7
5	*5500.00	120.1 PK			1.62 V	3	80.5	39.6
6	*5500.00	109.2 AV			1.62 V	3	69.6	39.6
7	11000.00	59.9 PK	74.0	-14.1	1.71 V	158	40.2	19.7
8	11000.00	47.0 AV	54.0	-7.0	1.71 V	158	27.3	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	106.7 PK			1.69 H	123	66.9	39.8
2	*5580.00	96.3 AV			1.69 H	123	56.5	39.8
3	11160.00	60.0 PK	74.0	-14.0	2.03 H	254	40.5	19.5
4	11160.00	46.8 AV	54.0	-7.2	2.03 H	254	27.3	19.5
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	122.1 PK			1.79 V	215	82.3	39.8
2	*5580.00	110.8 AV			1.79 V	215	71.0	39.8
3	11160.00	60.0 PK	74.0	-14.0	2.25 V	241	40.5	19.5
4	11160.00	46.6 AV	54.0	-7.4	2.25 V	241	27.1	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	104.0 PK			1.88 H	308	64.1	39.9
2	*5700.00	92.8 AV			1.88 H	308	52.9	39.9
3	#5725.00	56.8 PK	74.0	-17.2	1.72 H	259	50.5	6.3
4	#5725.00	44.0 AV	54.0	-10.0	1.72 H	259	37.7	6.3
5	11400.00	61.3 PK	74.0	-12.7	2.01 H	269	42.0	19.3
6	11400.00	47.6 AV	54.0	-6.4	2.01 H	269	28.3	19.3
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	118.7 PK			1.71 V	213	78.8	39.9
2	*5700.00	107.5 AV			1.71 V	213	67.6	39.9
3	#5725.00	67.3 PK	74.0	-6.7	1.59 V	223	61.0	6.3
4	#5725.00	52.7 AV	54.0	-1.3	1.59 V	223	46.4	6.3
5	11400.00	60.9 PK	74.0	-13.1	1.72 V	130	41.6	19.3
6	11400.00	47.9 AV	54.0	-6.1	1.72 V	130	28.6	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5039.00	54.8 PK	74.0	-19.2	1.77 H	162	50.4	4.4
2	5039.00	42.3 AV	54.0	-11.7	1.77 H	162	37.9	4.4
3	*5270.00	104.5 PK			1.38 H	141	65.5	39.0
4	*5270.00	95.2 AV			1.38 H	141	56.2	39.0
5	#10540.00	59.4 PK	74.0	-14.6	1.89 H	254	40.8	18.6
6	#10540.00	46.4 AV	54.0	-7.6	1.89 H	254	27.8	18.6
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	5039.00	57.2 PK	74.0	-16.8	1.59 V	204	52.8	4.4
2	5039.00	47.4 AV	54.0	-6.6	1.59 V	204	43.0	4.4
3	*5270.00	117.7 PK			1.49 V	11	78.7	39.0
4	*5270.00	108.3 AV			1.49 V	11	69.3	39.0
5	#10540.00	59.4 PK	74.0	-14.6	1.78 V	158	40.8	18.6
6	#10540.00	46.5 AV	54.0	-7.5	1.78 V	158	27.9	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	*5310.00	100.0 PK			1.96 H	150	60.9	39.1
2	*5310.00	89.9 AV			1.96 H	150	50.8	39.1
3	5350.00	56.2 PK	74.0	-17.8	1.83 H	198	50.7	5.5
4	5350.00	43.4 AV	54.0	-10.6	1.83 H	198	37.9	5.5
5	10620.00	59.0 PK	74.0	-15.0	1.65 H	64	40.5	18.5
6	10620.00	45.9 AV	54.0	-8.1	1.65 H	64	27.4	18.5
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	110.8 PK			1.62 V	6	71.7	39.1
2	*5310.00	101.7 AV			1.62 V	6	62.6	39.1
3	5350.00	67.0 PK	74.0	-7.0	1.44 V	6	61.5	5.5
4	5350.00	52.8 AV	54.0	-1.2	1.44 V	6	47.3	5.5
5	10620.00	59.3 PK	74.0	-14.7	1.58 V	267	40.8	18.5
6	10620.00	46.3 AV	54.0	-7.7	1.58 V	267	27.8	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	57.8 PK	74.0	-16.2	1.82 H	149	52.1	5.7
2	5460.00	43.7 AV	54.0	-10.3	1.82 H	149	38.0	5.7
3	#5470.00	56.5 PK	74.0	-17.5	1.75 H	153	50.8	5.7
4	#5470.00	43.9 AV	54.0	-10.1	1.75 H	153	38.2	5.7
5	*5510.00	101.1 PK			1.78 H	121	61.5	39.6
6	*5510.00	91.3 AV			1.78 H	121	51.7	39.6
7	11020.00	60.4 PK	74.0	-13.6	1.59 H	226	40.8	19.6
8	11020.00	47.3 AV	54.0	-6.7	1.59 H	226	27.7	19.6
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	59.9 PK	74.0	-14.1	1.37 V	64	54.2	5.7
2	5460.00	47.2 AV	54.0	-6.8	1.37 V	64	41.5	5.7
3	#5470.00	67.0 PK	74.0	-7.0	1.43 V	45	61.3	5.7
4	#5470.00	52.5 AV	54.0	-1.5	1.43 V	45	46.8	5.7
5	*5510.00	114.1 PK			1.30 V	35	74.5	39.6
6	*5510.00	104.6 AV			1.30 V	35	65.0	39.6
7	11020.00	59.9 PK	74.0	-14.1	1.70 V	144	40.3	19.6
8	11020.00	47.5 AV	54.0	-6.5	1.70 V	144	27.9	19.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	#5470.00	56.7 PK	74.0	-17.3	1.52 H	163	51.0	5.7
2	#5470.00	43.8 AV	54.0	-10.2	1.52 H	163	38.1	5.7
3	*5550.00	104.4 PK			1.63 H	122	64.8	39.6
4	*5550.00	94.7 AV			1.63 H	122	55.1	39.6
5	11100.00	59.6 PK	74.0	-14.4	2.84 H	221	40.4	19.2
6	11100.00	46.8 AV	54.0	-7.2	2.84 H	221	27.6	19.2
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	63.3 PK	74.0	-10.7	1.25 V	37	57.6	5.7
2	#5470.00	49.6 AV	54.0	-4.4	1.25 V	37	43.9	5.7
3	*5550.00	118.2 PK			1.35 V	32	78.6	39.6
4	*5550.00	108.5 AV			1.35 V	32	68.9	39.6
5	11100.00	60.1 PK	74.0	-13.9	1.48 V	127	40.9	19.2
6	11100.00	47.0 AV	54.0	-7.0	1.48 V	127	27.8	19.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	102.3 PK			1.40 H	123	62.5	39.8
2	*5670.00	92.2 AV			1.40 H	123	52.4	39.8
3	#5725.00	57.3 PK	74.0	-16.7	1.61 H	287	51.0	6.3
4	#5725.00	43.8 AV	54.0	-10.2	1.61 H	287	37.5	6.3
5	11340.00	60.5 PK	74.0	-13.5	1.84 H	135	41.0	19.5
6	11340.00	47.5 AV	54.0	-6.5	1.84 H	135	28.0	19.5
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	116.3 PK			1.83 V	216	76.5	39.8
2	*5670.00	107.0 AV			1.83 V	216	67.2	39.8
3	#5725.00	68.6 PK	74.0	-5.4	1.51 V	34	62.3	6.3
4	#5725.00	52.6 AV	54.0	-1.4	1.51 V	34	46.3	6.3
5	11340.00	60.8 PK	74.0	-13.2	1.72 V	96	41.3	19.5
6	11340.00	47.6 AV	54.0	-6.4	1.72 V	96	28.1	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	94.6 PK			1.76 H	145	55.5	39.1
2	*5290.00	84.8 AV			1.76 H	145	45.7	39.1
3	5350.00	57.3 PK	74.0	-16.7	1.97 H	148	51.8	5.5
4	5350.00	44.4 AV	54.0	-9.6	1.97 H	148	38.9	5.5
5	#10580.00	59.5 PK	74.0	-14.5	1.68 H	248	40.9	18.6
6	#10580.00	46.3 AV	54.0	-7.7	1.68 H	248	27.7	18.6
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	106.2 PK			1.46 V	28	67.1	39.1
2	*5290.00	96.3 AV			1.46 V	28	57.2	39.1
3	5350.00	65.1 PK	74.0	-8.9	1.60 V	5	59.6	5.5
4	5350.00	52.6 AV	54.0	-1.4	1.60 V	5	47.1	5.5
5	#10580.00	60.0 PK	74.0	-14.0	2.64 V	293	41.4	18.6
6	#10580.00	46.5 AV	54.0	-7.5	2.64 V	293	27.9	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	58.2 PK	74.0	-15.8	1.60 H	121	52.5	5.7
2	5460.00	45.2 AV	54.0	-8.8	1.60 H	121	39.5	5.7
3	#5470.00	58.5 PK	74.0	-15.5	1.65 H	128	52.8	5.7
4	#5470.00	45.4 AV	54.0	-8.6	1.65 H	128	39.7	5.7
5	*5530.00	96.7 PK			1.53 H	120	57.1	39.6
6	*5530.00	86.6 AV			1.53 H	120	47.0	39.6
7	11060.00	59.9 PK	74.0	-14.1	1.75 H	210	40.6	19.3
8	11060.00	46.8 AV	54.0	-7.2	1.75 H	210	27.5	19.3
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	66.4 PK	74.0	-7.6	1.87 V	214	60.7	5.7
2	5460.00	51.2 AV	54.0	-2.8	1.87 V	214	45.5	5.7
3	#5470.00	65.6 PK	74.0	-8.4	1.92 V	212	59.9	5.7
4	#5470.00	52.4 AV	54.0	-1.6	1.92 V	212	46.7	5.7
5	*5530.00	108.9 PK			1.62 V	219	69.3	39.6
6	*5530.00	99.3 AV			1.62 V	219	59.7	39.6
7	11060.00	60.0 PK	74.0	-14.0	2.94 V	302	40.7	19.3
8	11060.00	47.1 AV	54.0	-6.9	2.94 V	302	27.8	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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:

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	28.00 QP	40.00	-12.00	2.00 H	118	42.60	-14.60
2	185.44	29.40 QP	43.50	-14.10	1.00 H	275	45.20	-15.80
3	208.77	29.60 QP	43.50	-13.90	1.00 H	124	46.00	-16.40
4	249.60	35.40 QP	46.00	-10.60	1.00 H	135	49.40	-14.00
5	374.04	37.50 QP	46.00	-8.50	1.00 H	148	48.00	-10.50
6	874.99	44.40 QP	46.00	-1.60	2.00 H	340	44.50	-0.10
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	37.50 QP	40.00	-2.50	1.01 V	16	52.10	-14.60
2	96.01	28.70 QP	43.50	-14.80	1.50 V	100	48.10	-19.40
3	150.45	28.90 QP	43.50	-14.60	1.01 V	160	42.60	-13.70
4	249.60	35.70 QP	46.00	-10.30	2.00 V	178	49.70	-14.00
5	374.04	41.00 QP	46.00	-5.00	1.01 V	181	51.50	-10.50
6	875.67	43.20 QP	46.00	-2.80	1.01 V	347	43.30	-0.10

Remarks:

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

Test Mode B

Above 1GHz worst-Case Data:

802.11a

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	5135.00	59.0 PK	74.0	-15.0	1.66 H	346	54.2	4.8
2	5135.00	49.4 AV	54.0	-4.6	1.66 H	346	44.6	4.8
3	*5260.00	117.0 PK			1.73 H	349	78.1	38.9
4	*5260.00	106.5 AV			1.73 H	349	67.6	38.9
5	#10520.00	58.4 PK	74.0	-15.6	1.67 H	288	39.8	18.6
6	#10520.00	46.1 AV	54.0	-7.9	1.67 H	288	27.5	18.6
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	5135.00	59.0 PK	74.0	-15.0	1.79 V	342	54.2	4.8
2	5135.00	49.6 AV	54.0	-4.4	1.79 V	342	44.8	4.8
3	*5260.00	114.8 PK			1.94 V	330	75.9	38.9
4	*5260.00	103.7 AV			1.94 V	330	64.8	38.9
5	#10520.00	60.4 PK	74.0	-13.6	1.76 V	87	41.8	18.6
6	#10520.00	47.9 AV	54.0	-6.1	1.76 V	87	29.3	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5135.00	59.3 PK	74.0	-14.7	1.64 H	345	54.5	4.8
2	5135.00	49.6 AV	54.0	-4.4	1.64 H	345	44.8	4.8
3	*5300.00	116.9 PK			1.76 H	348	77.8	39.1
4	*5300.00	106.4 AV			1.76 H	348	67.3	39.1
5	10600.00	58.9 PK	74.0	-15.1	1.76 H	199	40.4	18.5
6	10600.00	46.1 AV	54.0	-7.9	1.76 H	199	27.6	18.5
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	5135.00	58.8 PK	74.0	-15.2	1.82 V	346	54.0	4.8
2	5135.00	49.3 AV	54.0	-4.7	1.82 V	346	44.5	4.8
3	*5300.00	115.3 PK			1.84 V	331	76.2	39.1
4	*5300.00	104.4 AV			1.84 V	331	65.3	39.1
5	10600.00	59.4 PK	74.0	-14.6	1.31 V	211	40.9	18.5
6	10600.00	47.5 AV	54.0	-6.5	1.31 V	211	29.0	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5135.00	58.1 PK	74.0	-15.9	1.60 H	340	53.3	4.8
2	5135.00	49.3 AV	54.0	-4.7	1.60 H	340	44.5	4.8
3	*5320.00	116.9 PK			1.82 H	349	77.8	39.1
4	*5320.00	106.7 AV			1.82 H	349	67.6	39.1
5	5350.00	61.2 PK	74.0	-12.8	1.66 H	345	55.7	5.5
6	5350.00	48.6 AV	54.0	-5.4	1.66 H	345	43.1	5.5
7	10640.00	57.9 PK	74.0	-16.1	1.33 H	245	39.4	18.5
8	10640.00	45.7 AV	54.0	-8.3	1.33 H	245	27.2	18.5
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	5135.00	57.8 PK	74.0	-16.2	1.80 V	344	53.0	4.8
2	5135.00	49.0 AV	54.0	-5.0	1.80 V	344	44.2	4.8
3	*5320.00	115.2 PK			1.97 V	355	76.1	39.1
4	*5320.00	104.5 AV			1.97 V	355	65.4	39.1
5	5350.00	59.5 PK	74.0	-14.5	1.85 V	328	54.0	5.5
6	5350.00	48.0 AV	54.0	-6.0	1.85 V	328	42.5	5.5
7	10640.00	60.0 PK	74.0	-14.0	1.36 V	241	41.5	18.5
8	10640.00	47.4 AV	54.0	-6.6	1.36 V	241	28.9	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5420.00	58.6 PK	74.0	-15.4	1.71 H	338	52.9	5.7
2	5420.00	47.7 AV	54.0	-6.3	1.71 H	338	42.0	5.7
3	#5470.00	60.6 PK	74.0	-13.4	1.67 H	341	54.9	5.7
4	#5470.00	47.1 AV	54.0	-6.9	1.67 H	341	41.4	5.7
5	*5500.00	116.9 PK			1.74 H	354	77.3	39.6
6	*5500.00	106.3 AV			1.74 H	354	66.7	39.6
7	11000.00	59.3 PK	74.0	-14.7	1.63 H	252	39.6	19.7
8	11000.00	46.6 AV	54.0	-7.4	1.63 H	252	26.9	19.7
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	5420.00	57.8 PK	74.0	-16.2	1.87 V	319	52.1	5.7
2	5420.00	46.9 AV	54.0	-7.1	1.87 V	319	41.2	5.7
3	#5470.00	58.8 PK	74.0	-15.2	1.77 V	331	53.1	5.7
4	#5470.00	46.0 AV	54.0	-8.0	1.77 V	331	40.3	5.7
5	*5500.00	113.8 PK			1.86 V	327	74.2	39.6
6	*5500.00	102.9 AV			1.86 V	327	63.3	39.6
7	11000.00	59.0 PK	74.0	-15.0	1.57 V	218	39.3	19.7
8	11000.00	47.0 AV	54.0	-7.0	1.57 V	218	27.3	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	117.5 PK			1.75 H	357	77.7	39.8
2	*5580.00	107.3 AV			1.75 H	357	67.5	39.8
3	11160.00	58.9 PK	74.0	-15.1	1.66 H	256	39.4	19.5
4	11160.00	46.2 AV	54.0	-7.8	1.66 H	256	26.7	19.5
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	114.9 PK			1.94 V	329	75.1	39.8
2	*5580.00	104.1 AV			1.94 V	329	64.3	39.8
3	11160.00	59.1 PK	74.0	-14.9	1.80 V	238	39.6	19.5
4	11160.00	46.7 AV	54.0	-7.3	1.80 V	238	27.2	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	118.7 PK			1.77 H	358	78.8	39.9
2	*5700.00	107.7 AV			1.77 H	358	67.8	39.9
3	#5725.00	63.0 PK	74.0	-11.0	1.64 H	2	56.7	6.3
4	#5725.00	49.6 AV	54.0	-4.4	1.64 H	2	43.3	6.3
5	11400.00	59.6 PK	74.0	-14.4	1.71 H	242	40.3	19.3
6	11400.00	47.0 AV	54.0	-7.0	1.71 H	242	27.7	19.3
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	114.3 PK			1.87 V	327	74.4	39.9
2	*5700.00	103.5 AV			1.87 V	327	63.6	39.9
3	#5725.00	60.3 PK	74.0	-13.7	1.82 V	332	54.0	6.3
4	#5725.00	47.3 AV	54.0	-6.7	1.82 V	332	41.0	6.3
5	11400.00	59.3 PK	74.0	-14.7	1.58 V	231	40.0	19.3
6	11400.00	46.9 AV	54.0	-7.1	1.58 V	231	27.6	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5135.00	60.2 PK	74.0	-13.8	1.66 H	349	55.4	4.8
2	5135.00	49.9 AV	54.0	-4.1	1.66 H	349	45.1	4.8
3	*5260.00	117.7 PK			1.60 H	357	78.8	38.9
4	*5260.00	106.5 AV			1.60 H	357	67.6	38.9
5	#10520.00	59.5 PK	74.0	-14.5	1.74 H	103	40.9	18.6
6	#10520.00	46.9 AV	54.0	-7.1	1.74 H	103	28.3	18.6
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	5150.00	58.5 PK	74.0	-15.5	1.79 V	333	53.7	4.8
2	5150.00	49.4 AV	54.0	-4.6	1.79 V	333	44.6	4.8
3	*5260.00	113.9 PK			1.80 V	338	75.0	38.9
4	*5260.00	102.9 AV			1.80 V	338	64.0	38.9
5	#10520.00	59.7 PK	74.0	-14.3	1.68 V	243	41.1	18.6
6	#10520.00	46.7 AV	54.0	-7.3	1.68 V	243	28.1	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	117.6 PK			1.70 H	351	78.5	39.1
2	*5300.00	106.3 AV			1.70 H	351	67.2	39.1
3	10600.00	60.3 PK	74.0	-13.7	1.52 H	241	41.8	18.5
4	10600.00	47.2 AV	54.0	-6.8	1.52 H	241	28.7	18.5
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	114.0 PK			1.75 V	330	74.9	39.1
2	*5300.00	103.3 AV			1.75 V	330	64.2	39.1
3	10600.00	60.1 PK	74.0	-13.9	1.54 V	242	41.6	18.5
4	10600.00	46.8 AV	54.0	-7.2	1.54 V	242	28.3	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	117.9 PK			1.68 H	359	78.8	39.1
2	*5320.00	106.7 AV			1.68 H	359	67.6	39.1
3	5350.00	63.5 PK	74.0	-10.5	1.64 H	345	58.0	5.5
4	5350.00	49.6 AV	54.0	-4.4	1.64 H	345	44.1	5.5
5	10640.00	59.5 PK	74.0	-14.5	1.58 H	215	41.0	18.5
6	10640.00	46.8 AV	54.0	-7.2	1.58 H	215	28.3	18.5
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	114.5 PK			1.84 V	330	75.4	39.1
2	*5320.00	103.7 AV			1.84 V	330	64.6	39.1
3	5350.00	58.3 PK	74.0	-15.7	1.74 V	328	52.8	5.5
4	5350.00	47.4 AV	54.0	-6.6	1.74 V	328	41.9	5.5
5	10640.00	59.4 PK	74.0	-14.6	1.67 V	212	40.9	18.5
6	10640.00	46.9 AV	54.0	-7.1	1.67 V	212	28.4	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5420.00	58.5 PK	74.0	-15.5	1.81 H	346	52.8	5.7
2	5420.00	48.1 AV	54.0	-5.9	1.81 H	346	42.4	5.7
3	#5470.00	60.4 PK	74.0	-13.6	1.72 H	355	54.7	5.7
4	#5470.00	47.0 AV	54.0	-7.0	1.72 H	355	41.3	5.7
5	*5500.00	117.2 PK			1.77 H	359	77.6	39.6
6	*5500.00	106.1 AV			1.77 H	359	66.5	39.6
7	11000.00	58.9 PK	74.0	-15.1	1.69 H	282	39.2	19.7
8	11000.00	46.2 AV	54.0	-7.8	1.69 H	282	26.5	19.7
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	5420.00	58.3 PK	74.0	-15.7	1.98 V	330	52.6	5.7
2	5420.00	47.0 AV	54.0	-7.0	1.98 V	330	41.3	5.7
3	#5470.00	58.6 PK	74.0	-15.4	1.88 V	321	52.9	5.7
4	#5470.00	45.6 AV	54.0	-8.4	1.88 V	321	39.9	5.7
5	*5500.00	112.7 PK			1.77 V	321	73.1	39.6
6	*5500.00	102.3 AV			1.77 V	321	62.7	39.6
7	11000.00	59.2 PK	74.0	-14.8	1.79 V	219	39.5	19.7
8	11000.00	46.7 AV	54.0	-7.3	1.79 V	219	27.0	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	118.4 PK			1.74 H	2	78.6	39.8
2	*5580.00	106.9 AV			1.74 H	2	67.1	39.8
3	11160.00	59.0 PK	74.0	-15.0	1.59 H	282	39.5	19.5
4	11160.00	46.2 AV	54.0	-7.8	1.59 H	282	26.7	19.5
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	114.1 PK			1.73 V	329	74.3	39.8
2	*5580.00	103.2 AV			1.73 V	329	63.4	39.8
3	11160.00	58.7 PK	74.0	-15.3	1.55 V	211	39.2	19.5
4	11160.00	46.4 AV	54.0	-7.6	1.55 V	211	26.9	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	117.7 PK			1.72 H	6	77.8	39.9
2	*5700.00	106.8 AV			1.72 H	6	66.9	39.9
3	#5725.00	63.1 PK	74.0	-10.9	1.63 H	4	56.8	6.3
4	#5725.00	51.5 AV	54.0	-2.5	1.63 H	4	45.2	6.3
5	11400.00	60.1 PK	74.0	-13.9	1.55 H	283	40.8	19.3
6	11400.00	47.1 AV	54.0	-6.9	1.55 H	283	27.8	19.3
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	114.0 PK			1.78 V	358	74.1	39.9
2	*5700.00	103.2 AV			1.78 V	358	63.3	39.9
3	#5725.00	60.1 PK	74.0	-13.9	1.78 V	338	53.8	6.3
4	#5725.00	48.0 AV	54.0	-6.0	1.78 V	338	41.7	6.3
5	11400.00	60.3 PK	74.0	-13.7	1.53 V	224	41.0	19.3
6	11400.00	46.9 AV	54.0	-7.1	1.53 V	224	27.6	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5135.00	60.0 PK	74.0	-14.0	1.64 H	349	55.2	4.8
2	5135.00	49.7 AV	54.0	-4.3	1.64 H	349	44.9	4.8
3	*5270.00	114.0 PK			1.71 H	357	75.0	39.0
4	*5270.00	104.5 AV			1.71 H	357	65.5	39.0
5	#10540.00	59.7 PK	74.0	-14.3	1.47 H	252	41.1	18.6
6	#10540.00	47.1 AV	54.0	-6.9	1.47 H	252	28.5	18.6
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	5135.00	58.3 PK	74.0	-15.7	1.85 V	6	53.5	4.8
2	5135.00	49.2 AV	54.0	-4.8	1.85 V	6	44.4	4.8
3	*5270.00	110.8 PK			1.94 V	7	71.8	39.0
4	*5270.00	101.0 AV			1.94 V	7	62.0	39.0
5	#10540.00	59.6 PK	74.0	-14.4	1.55 V	69	41.0	18.6
6	#10540.00	46.9 AV	54.0	-7.1	1.55 V	69	28.3	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	*5310.00	113.6 PK			1.63 H	347	74.5	39.1
2	*5310.00	103.2 AV			1.63 H	347	64.1	39.1
3	5350.00	65.0 PK	74.0	-9.0	1.61 H	357	59.5	5.5
4	**5350.00**	**52.9 AV**	**54.0**	**-1.1**	**1.61 H**	**357**	**47.4**	**5.5**
5	10620.00	59.5 PK	74.0	-14.5	1.58 H	299	41.0	18.5
6	10620.00	47.1 AV	54.0	-6.9	1.58 H	299	28.6	18.5
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	110.6 PK			1.87 V	5	71.5	39.1
2	*5310.00	100.9 AV			1.87 V	5	61.8	39.1
3	5350.00	59.8 PK	74.0	-14.2	2.02 V	2	54.3	5.5
4	5350.00	47.3 AV	54.0	-6.7	2.02 V	2	41.8	5.5
5	10620.00	59.8 PK	74.0	-14.2	1.66 V	66	41.3	18.5
6	10620.00	47.0 AV	54.0	-7.0	1.66 V	66	28.5	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	5420.00	59.8 PK	74.0	-14.2	1.71 H	346	54.1	5.7
2	5420.00	48.2 AV	54.0	-5.8	1.71 H	346	42.5	5.7
3	#5470.00	61.1 PK	74.0	-12.9	1.66 H	353	55.4	5.7
4	#5470.00	48.1 AV	54.0	-5.9	1.66 H	353	42.4	5.7
5	*5510.00	113.6 PK			1.70 H	356	74.0	39.6
6	*5510.00	103.8 AV			1.70 H	356	64.2	39.6
7	11020.00	59.7 PK	74.0	-14.3	1.64 H	284	40.1	19.6
8	11020.00	46.4 AV	54.0	-7.6	1.64 H	284	26.8	19.6
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	5420.00	60.1 PK	74.0	-13.9	1.93 V	327	54.4	5.7
2	5420.00	50.1 AV	54.0	-3.9	1.93 V	327	44.4	5.7
3	#5470.00	61.5 PK	74.0	-12.5	1.82 V	332	55.8	5.7
4	#5470.00	48.7 AV	54.0	-5.3	1.82 V	332	43.0	5.7
5	*5510.00	110.5 PK			1.88 V	8	70.9	39.6
6	*5510.00	100.4 AV			1.88 V	8	60.8	39.6
7	11020.00	59.5 PK	74.0	-14.5	1.89 V	183	39.9	19.6
8	11020.00	46.7 AV	54.0	-7.3	1.89 V	183	27.1	19.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	114.9 PK			1.71 H	356	75.3	39.6
2	*5550.00	104.7 AV			1.71 H	356	65.1	39.6
3	11100.00	59.2 PK	74.0	-14.8	1.77 H	260	40.0	19.2
4	11100.00	46.7 AV	54.0	-7.3	1.77 H	260	27.5	19.2
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	110.7 PK			1.83 V	327	71.1	39.6
2	*5550.00	100.9 AV			1.83 V	327	61.3	39.6
3	11100.00	58.9 PK	74.0	-15.1	1.79 V	261	39.7	19.2
4	11100.00	46.5 AV	54.0	-7.5	1.79 V	261	27.3	19.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	115.0 PK			1.68 H	2	75.2	39.8
2	*5670.00	105.1 AV			1.68 H	2	65.3	39.8
3	#5725.00	61.4 PK	74.0	-12.6	1.67 H	357	55.1	6.3
4	#5725.00	48.1 AV	54.0	-5.9	1.67 H	357	41.8	6.3
5	11340.00	60.4 PK	74.0	-13.6	1.56 H	241	40.9	19.5
6	11340.00	47.1 AV	54.0	-6.9	1.56 H	241	27.6	19.5
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	110.1 PK			1.79 V	2	70.3	39.8
2	*5670.00	100.2 AV			1.79 V	2	60.4	39.8
3	#5725.00	58.5 PK	74.0	-15.5	1.77 V	350	52.2	6.3
4	#5725.00	45.8 AV	54.0	-8.2	1.77 V	350	39.5	6.3
5	11340.00	60.2 PK	74.0	-13.8	1.69 V	282	40.7	19.5
6	11340.00	46.8 AV	54.0	-7.2	1.69 V	282	27.3	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5135.00	58.8 PK	74.0	-15.2	1.61 H	347	54.0	4.8
2	5135.00	48.6 AV	54.0	-5.4	1.61 H	347	43.8	4.8
3	*5290.00	106.8 PK			1.70 H	352	67.7	39.1
4	*5290.00	96.5 AV			1.70 H	352	57.4	39.1
5	5350.00	65.3 PK	74.0	-8.7	1.66 H	343	59.8	5.5
6	5350.00	52.8 AV	54.0	-1.2	1.66 H	343	47.3	5.5
7	#10580.00	59.3 PK	74.0	-14.7	1.60 H	300	40.7	18.6
8	#10580.00	47.2 AV	54.0	-6.8	1.60 H	300	28.6	18.6
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	5150.00	58.0 PK	74.0	-16.0	1.84 V	326	53.2	4.8
2	5150.00	48.2 AV	54.0	-5.8	1.84 V	326	43.4	4.8
3	*5290.00	104.5 PK			1.86 V	334	65.4	39.1
4	*5290.00	94.6 AV			1.86 V	334	55.5	39.1
5	5350.00	61.4 PK	74.0	-12.6	1.82 V	333	55.9	5.5
6	5350.00	48.4 AV	54.0	-5.6	1.82 V	333	42.9	5.5
7	#10580.00	58.9 PK	74.0	-15.1	1.64 V	228	40.3	18.6
8	#10580.00	47.0 AV	54.0	-7.0	1.64 V	228	28.4	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	62.0 PK	74.0	-12.0	1.70 H	354	56.3	5.7
2	5460.00	49.9 AV	54.0	-4.1	1.70 H	354	44.2	5.7
3	#5470.00	63.8 PK	74.0	-10.2	1.79 H	5	58.1	5.7
4	#5470.00	51.1 AV	54.0	-2.9	1.79 H	5	45.4	5.7
5	*5530.00	110.2 PK			1.76 H	354	70.6	39.6
6	*5530.00	100.4 AV			1.76 H	354	60.8	39.6
7	#5725.00	58.0 PK	74.0	-16.0	1.62 H	353	51.7	6.3
8	#5725.00	45.3 AV	54.0	-8.7	1.62 H	353	39.0	6.3
9	11060.00	59.2 PK	74.0	-14.8	1.66 H	229	39.9	19.3
10	11060.00	46.8 AV	54.0	-7.2	1.66 H	229	27.5	19.3
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	61.0 PK	74.0	-13.0	1.83 V	347	55.3	5.7
2	5460.00	48.9 AV	54.0	-5.1	1.83 V	347	43.2	5.7
3	#5470.00	62.5 PK	74.0	-11.5	1.86 V	353	56.8	5.7
4	#5470.00	49.3 AV	54.0	-4.7	1.86 V	353	43.6	5.7
5	*5530.00	106.9 PK			1.90 V	358	67.3	39.6
6	*5530.00	96.7 AV			1.90 V	358	57.1	39.6
7	#5725.00	56.7 PK	74.0	-17.3	1.68 V	1	50.4	6.3
8	#5725.00	44.6 AV	54.0	-9.4	1.68 V	1	38.3	6.3
9	11060.00	59.9 PK	74.0	-14.1	1.55 V	272	40.6	19.3
10	11060.00	46.8 AV	54.0	-7.2	1.55 V	272	27.5	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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:

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	35.73	31.90 QP	40.00	-8.10	1.50 H	162	47.50	-15.60
2	125.17	29.70 QP	43.50	-13.80	1.50 H	266	45.80	-16.10
3	185.44	30.60 QP	43.50	-12.90	1.50 H	48	46.40	-15.80
4	249.60	37.40 QP	46.00	-8.60	1.00 H	128	51.40	-14.00
5	374.04	37.20 QP	46.00	-8.80	1.50 H	196	47.70	-10.50
6	875.67	41.20 QP	46.00	-4.80	1.50 H	52	41.30	-0.10
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	35.73	38.40 QP	40.00	-1.60	1.00 V	3	54.00	-15.60
2	53.23	37.20 QP	40.00	-2.80	1.00 V	18	51.40	-14.20
3	125.17	29.20 QP	43.50	-14.30	1.00 V	215	45.30	-16.10
4	249.60	32.90 QP	46.00	-13.10	1.00 V	95	46.90	-14.00
5	374.04	41.30 QP	46.00	-4.70	1.00 V	177	51.80	-10.50
6	875.67	41.40 QP	46.00	-4.60	2.00 V	131	41.50	-0.10

Remarks:

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

Test Mode C

Above 1GHz worst-Case Data:

802.11a

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	114.1 PK			1.78 H	338	75.2	38.9
2	*5260.00	104.1 AV			1.78 H	338	65.2	38.9
3	5350.00	57.0 PK	74.0	-17.0	1.72 H	12	51.5	5.5
4	5350.00	44.6 AV	54.0	-9.4	1.72 H	12	39.1	5.5
5	#10520.00	59.0 PK	74.0	-15.0	1.63 H	172	40.4	18.6
6	#10520.00	46.7 AV	54.0	-7.3	1.63 H	172	28.1	18.6
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	117.0 PK			1.33 V	350	78.1	38.9
2	*5260.00	106.2 AV			1.33 V	350	67.3	38.9
3	5350.00	56.3 PK	74.0	-17.7	1.81 V	350	50.8	5.5
4	5350.00	45.1 AV	54.0	-8.9	1.81 V	350	39.6	5.5
5	#10520.00	58.6 PK	74.0	-15.4	1.75 V	143	40.0	18.6
6	#10520.00	46.2 AV	54.0	-7.8	1.75 V	143	27.6	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	113.9 PK			1.74 H	347	74.8	39.1
2	*5300.00	103.7 AV			1.74 H	347	64.6	39.1
3	5350.00	57.8 PK	74.0	-16.2	1.81 H	348	52.3	5.5
4	5350.00	44.4 AV	54.0	-9.6	1.81 H	348	38.9	5.5
5	10600.00	58.2 PK	74.0	-15.8	1.57 H	243	39.7	18.5
6	10600.00	46.0 AV	54.0	-8.0	1.57 H	243	27.5	18.5
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	116.1 PK			1.25 V	353	77.0	39.1
2	*5300.00	105.4 AV			1.25 V	353	66.3	39.1
3	5350.00	57.5 PK	74.0	-16.5	1.33 V	348	52.0	5.5
4	5350.00	45.8 AV	54.0	-8.2	1.33 V	348	40.3	5.5
5	10600.00	58.7 PK	74.0	-15.3	1.53 V	216	40.2	18.5
6	10600.00	46.3 AV	54.0	-7.7	1.53 V	216	27.8	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	115.4 PK			1.99 H	342	76.3	39.1
2	*5320.00	104.3 AV			1.99 H	342	65.2	39.1
3	5350.00	69.3 PK	74.0	-4.7	2.01 H	342	63.8	5.5
4	5350.00	52.6 AV	54.0	-1.4	2.01 H	342	47.1	5.5
5	10640.00	58.4 PK	74.0	-15.6	1.77 H	239	39.9	18.5
6	10640.00	45.6 AV	54.0	-8.4	1.77 H	239	27.1	18.5
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	115.2 PK			1.03 V	354	76.1	39.1
2	*5320.00	105.1 AV			1.03 V	354	66.0	39.1
3	5350.00	68.8 PK	74.0	-5.2	1.02 V	352	63.3	5.5
4	5350.00	52.4 AV	54.0	-1.6	1.02 V	352	46.9	5.5
5	10640.00	57.9 PK	74.0	-16.1	1.22 V	243	39.4	18.5
6	10640.00	45.6 AV	54.0	-8.4	1.22 V	243	27.1	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	60.5 PK	74.0	-13.5	2.00 H	342	54.8	5.7
2	5460.00	46.2 AV	54.0	-7.8	2.00 H	342	40.5	5.7
3	#5470.00	67.8 PK	74.0	-6.2	2.09 H	348	62.1	5.7
4	#5470.00	50.4 AV	54.0	-3.6	2.09 H	348	44.7	5.7
5	*5500.00	115.1 PK			1.85 H	327	75.5	39.6
6	*5500.00	104.9 AV			1.85 H	327	65.3	39.6
7	11000.00	59.0 PK	74.0	-15.0	1.87 H	267	39.3	19.7
8	11000.00	46.7 AV	54.0	-7.3	1.87 H	267	27.0	19.7
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	59.7 PK	74.0	-14.3	1.31 V	351	54.0	5.7
2	5460.00	47.2 AV	54.0	-6.8	1.31 V	351	41.5	5.7
3	#5470.00	66.1 PK	74.0	-7.9	1.32 V	329	60.4	5.7
4	#5470.00	50.3 AV	54.0	-3.7	1.32 V	329	44.6	5.7
5	*5500.00	116.7 PK			1.29 V	351	77.1	39.6
6	*5500.00	106.3 AV			1.29 V	351	66.7	39.6
7	11000.00	59.5 PK	74.0	-14.5	1.52 V	334	39.8	19.7
8	11000.00	47.0 AV	54.0	-7.0	1.52 V	334	27.3	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	114.8 PK			1.67 H	325	75.0	39.8
2	*5580.00	104.5 AV			1.67 H	325	64.7	39.8
3	11160.00	59.6 PK	74.0	-14.4	1.54 H	284	40.1	19.5
4	11160.00	46.7 AV	54.0	-7.3	1.54 H	284	27.2	19.5
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	116.3 PK			1.46 V	353	76.5	39.8
2	*5580.00	105.6 AV			1.46 V	353	65.8	39.8
3	11160.00	59.4 PK	74.0	-14.6	1.56 V	284	39.9	19.5
4	11160.00	46.6 AV	54.0	-7.4	1.56 V	284	27.1	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	114.2 PK			1.57 H	326	74.3	39.9
2	*5700.00	103.9 AV			1.57 H	326	64.0	39.9
3	#5725.00	70.2 PK	74.0	-3.8	1.54 H	330	63.9	6.3
4	#5725.00	51.7 AV	54.0	-2.3	1.54 H	330	45.4	6.3
5	11400.00	60.1 PK	74.0	-13.9	1.43 H	338	40.8	19.3
6	11400.00	47.7 AV	54.0	-6.3	1.43 H	338	28.4	19.3
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	116.2 PK			1.47 V	347	76.3	39.9
2	*5700.00	104.6 AV			1.47 V	347	64.7	39.9
3	#5725.00	68.5 PK	74.0	-5.5	1.46 V	341	62.2	6.3
4	#5725.00	52.4 AV	54.0	-1.6	1.46 V	341	46.1	6.3
5	11400.00	60.0 PK	74.0	-14.0	1.61 V	273	40.7	19.3
6	11400.00	47.5 AV	54.0	-6.5	1.61 V	273	28.2	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	114.5 PK			1.95 H	338	75.6	38.9
2	*5260.00	103.5 AV			1.95 H	338	64.6	38.9
3	5350.00	56.3 PK	74.0	-17.7	2.11 H	334	50.8	5.5
4	5350.00	44.0 AV	54.0	-10.0	2.11 H	334	38.5	5.5
5	#10520.00	58.1 PK	74.0	-15.9	1.84 H	239	39.5	18.6
6	#10520.00	45.9 AV	54.0	-8.1	1.84 H	239	27.3	18.6
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	116.9 PK			1.26 V	354	78.0	38.9
2	*5260.00	106.0 AV			1.26 V	354	67.1	38.9
3	5350.00	57.2 PK	74.0	-16.8	1.36 V	336	51.7	5.5
4	5350.00	43.4 AV	54.0	-10.6	1.36 V	336	37.9	5.5
5	#10520.00	58.5 PK	74.0	-15.5	1.40 V	286	39.9	18.6
6	#10520.00	45.7 AV	54.0	-8.3	1.40 V	286	27.1	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	115.7 PK			1.91 H	340	76.6	39.1
2	*5300.00	104.5 AV			1.91 H	340	65.4	39.1
3	5350.00	59.0 PK	74.0	-15.0	1.84 H	338	53.5	5.5
4	5350.00	44.8 AV	54.0	-9.2	1.84 H	338	39.3	5.5
5	10600.00	59.3 PK	74.0	-14.7	1.76 H	228	40.8	18.5
6	10600.00	46.0 AV	54.0	-8.0	1.76 H	228	27.5	18.5
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	115.2 PK			1.53 V	330	76.1	39.1
2	*5300.00	104.6 AV			1.53 V	330	65.5	39.1
3	5350.00	59.0 PK	74.0	-15.0	1.45 V	345	53.5	5.5
4	5350.00	45.5 AV	54.0	-8.5	1.45 V	345	40.0	5.5
5	10600.00	58.5 PK	74.0	-15.5	1.37 V	294	40.0	18.5
6	10600.00	45.8 AV	54.0	-8.2	1.37 V	294	27.3	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	115.1 PK			1.86 H	335	76.0	39.1
2	*5320.00	104.0 AV			1.86 H	335	64.9	39.1
3	5350.00	68.7 PK	74.0	-5.3	1.71 H	13	63.2	5.5
4	5350.00	52.2 AV	54.0	-1.8	1.71 H	13	46.7	5.5
5	10640.00	58.6 PK	74.0	-15.4	1.61 H	303	40.1	18.5
6	10640.00	45.5 AV	54.0	-8.5	1.61 H	303	27.0	18.5
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	115.2 PK			1.48 V	328	76.1	39.1
2	*5320.00	104.7 AV			1.48 V	328	65.6	39.1
3	5350.00	69.1 PK	74.0	-4.9	1.42 V	353	63.6	5.5
4	5350.00	52.4 AV	54.0	-1.6	1.42 V	353	46.9	5.5
5	10640.00	58.8 PK	74.0	-15.2	1.30 V	308	40.3	18.5
6	10640.00	45.7 AV	54.0	-8.3	1.30 V	308	27.2	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	60.5 PK	74.0	-13.5	1.90 H	334	54.8	5.7
2	5460.00	46.6 AV	54.0	-7.4	1.90 H	334	40.9	5.7
3	#5470.00	68.9 PK	74.0	-5.1	1.94 H	336	63.2	5.7
4	#5470.00	50.1 AV	54.0	-3.9	1.94 H	336	44.4	5.7
5	*5500.00	115.5 PK			2.01 H	352	75.9	39.6
6	*5500.00	104.9 AV			2.01 H	352	65.3	39.6
7	11000.00	59.4 PK	74.0	-14.6	1.68 H	297	39.7	19.7
8	11000.00	46.8 AV	54.0	-7.2	1.68 H	297	27.1	19.7
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	59.5 PK	74.0	-14.5	1.32 V	352	53.8	5.7
2	5460.00	47.4 AV	54.0	-6.6	1.32 V	352	41.7	5.7
3	#5470.00	67.3 PK	74.0	-6.7	1.17 V	348	61.6	5.7
4	#5470.00	50.5 AV	54.0	-3.5	1.17 V	348	44.8	5.7
5	*5500.00	117.1 PK			1.49 V	343	77.5	39.6
6	*5500.00	105.7 AV			1.49 V	343	66.1	39.6
7	11000.00	59.4 PK	74.0	-14.6	1.39 V	254	39.7	19.7
8	11000.00	46.9 AV	54.0	-7.1	1.39 V	254	27.2	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	115.0 PK			1.75 H	330	75.2	39.8
2	*5580.00	104.6 AV			1.75 H	330	64.8	39.8
3	11160.00	59.5 PK	74.0	-14.5	1.63 H	261	40.0	19.5
4	11160.00	46.7 AV	54.0	-7.3	1.63 H	261	27.2	19.5
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	116.2 PK			1.49 V	351	76.4	39.8
2	*5580.00	104.8 AV			1.49 V	351	65.0	39.8
3	11160.00	59.8 PK	74.0	-14.2	1.33 V	302	40.3	19.5
4	11160.00	46.6 AV	54.0	-7.4	1.33 V	302	27.1	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	113.8 PK			1.59 H	326	73.9	39.9
2	*5700.00	103.4 AV			1.59 H	326	63.5	39.9
3	#5725.00	65.1 PK	74.0	-8.9	1.57 H	330	58.8	6.3
4	#5725.00	50.5 AV	54.0	-3.5	1.57 H	330	44.2	6.3
5	11400.00	60.5 PK	74.0	-13.5	1.46 H	261	41.2	19.3
6	11400.00	47.8 AV	54.0	-6.2	1.46 H	261	28.5	19.3
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	116.7 PK			1.19 V	354	76.8	39.9
2	*5700.00	106.1 AV			1.19 V	354	66.2	39.9
3	#5725.00	66.9 PK	74.0	-7.1	1.42 V	349	60.6	6.3
4	#5725.00	52.4 AV	54.0	-1.6	1.42 V	349	46.1	6.3
5	11400.00	60.2 PK	74.0	-13.8	1.45 V	311	40.9	19.3
6	11400.00	47.5 AV	54.0	-6.5	1.45 V	311	28.2	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	111.0 PK			1.50 H	334	72.0	39.0
2	*5270.00	101.6 AV			1.50 H	334	62.6	39.0
3	5350.00	60.0 PK	74.0	-14.0	1.61 H	340	54.5	5.5
4	5350.00	45.8 AV	54.0	-8.2	1.61 H	340	40.3	5.5
5	#10540.00	59.1 PK	74.0	-14.9	1.46 H	277	40.5	18.6
6	#10540.00	46.4 AV	54.0	-7.6	1.46 H	277	27.8	18.6
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	113.3 PK			1.26 V	353	74.3	39.0
2	*5270.00	103.4 AV			1.26 V	353	64.4	39.0
3	5350.00	58.5 PK	74.0	-15.5	1.59 V	348	53.0	5.5
4	5350.00	46.5 AV	54.0	-7.5	1.59 V	348	41.0	5.5
5	#10540.00	59.1 PK	74.0	-14.9	1.54 V	301	40.5	18.6
6	#10540.00	46.2 AV	54.0	-7.8	1.54 V	301	27.6	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	*5310.00	110.2 PK			2.00 H	345	71.1	39.1
2	*5310.00	100.6 AV			2.00 H	345	61.5	39.1
3	5350.00	67.0 PK	74.0	-7.0	2.07 H	340	61.5	5.5
4	5350.00	52.5 AV	54.0	-1.5	2.07 H	340	47.0	5.5
5	10620.00	58.9 PK	74.0	-15.1	1.84 H	294	40.4	18.5
6	10620.00	45.7 AV	54.0	-8.3	1.84 H	294	27.2	18.5
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			1.20 V	354	73.0	39.1
2	*5310.00	102.3 AV			1.20 V	354	63.2	39.1
3	5350.00	68.3 PK	74.0	-5.7	1.62 V	348	62.8	5.5
4	5350.00	52.2 AV	54.0	-1.8	1.62 V	348	46.7	5.5
5	10620.00	57.6 PK	74.0	-16.4	1.51 V	308	39.1	18.5
6	10620.00	45.7 AV	54.0	-8.3	1.51 V	308	27.2	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	61.4 PK	74.0	-12.6	2.21 H	343	55.7	5.7
2	5460.00	47.6 AV	54.0	-6.4	2.21 H	343	41.9	5.7
3	#5470.00	66.4 PK	74.0	-7.6	2.26 H	352	60.7	5.7
4	#5470.00	51.5 AV	54.0	-2.5	2.26 H	352	45.8	5.7
5	*5510.00	110.6 PK			2.35 H	347	71.0	39.6
6	*5510.00	101.6 AV			2.35 H	347	62.0	39.6
7	11020.00	59.9 PK	74.0	-14.1	2.03 H	289	40.3	19.6
8	11020.00	46.9 AV	54.0	-7.1	2.03 H	289	27.3	19.6
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	63.4 PK	74.0	-10.6	1.33 V	349	57.7	5.7
2	5460.00	48.6 AV	54.0	-5.4	1.33 V	349	42.9	5.7
3	#5470.00	67.1 PK	74.0	-6.9	1.33 V	330	61.4	5.7
4	#5470.00	52.5 AV	54.0	-1.5	1.33 V	330	46.8	5.7
5	*5510.00	111.4 PK			1.33 V	346	71.8	39.6
6	*5510.00	101.6 AV			1.33 V	346	62.0	39.6
7	11020.00	59.4 PK	74.0	-14.6	1.38 V	289	39.8	19.6
8	11020.00	46.9 AV	54.0	-7.1	1.38 V	289	27.3	19.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	112.0 PK			1.95 H	337	72.4	39.6
2	*5550.00	102.3 AV			1.95 H	337	62.7	39.6
3	11100.00	59.6 PK	74.0	-14.4	1.80 H	282	40.4	19.2
4	11100.00	46.8 AV	54.0	-7.2	1.80 H	282	27.6	19.2
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	112.7 PK			1.40 V	353	73.1	39.6
2	*5550.00	103.0 AV			1.40 V	353	63.4	39.6
3	11100.00	59.9 PK	74.0	-14.1	1.39 V	335	40.7	19.2
4	11100.00	47.0 AV	54.0	-7.0	1.39 V	335	27.8	19.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	111.1 PK			1.62 H	324	71.3	39.8
2	*5670.00	101.5 AV			1.62 H	324	61.7	39.8
3	#5725.00	68.3 PK	74.0	-5.7	1.66 H	334	62.0	6.3
4	#5725.00	50.9 AV	54.0	-3.1	1.66 H	334	44.6	6.3
5	11340.00	60.7 PK	74.0	-13.3	1.42 H	243	41.2	19.5
6	11340.00	47.6 AV	54.0	-6.4	1.42 H	243	28.1	19.5
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	112.7 PK			1.48 V	349	72.9	39.8
2	*5670.00	103.1 AV			1.48 V	349	63.3	39.8
3	#5725.00	69.3 PK	74.0	-4.7	1.48 V	338	63.0	6.3
4	#5725.00	52.2 AV	54.0	-1.8	1.48 V	338	45.9	6.3
5	11340.00	60.2 PK	74.0	-13.8	1.58 V	293	40.7	19.5
6	11340.00	47.5 AV	54.0	-6.5	1.58 V	293	28.0	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	104.0 PK			1.94 H	344	64.9	39.1
2	*5290.00	94.0 AV			1.94 H	344	54.9	39.1
3	5350.00	65.2 PK	74.0	-8.8	1.86 H	345	59.7	5.5
4	5350.00	52.3 AV	54.0	-1.7	1.86 H	345	46.8	5.5
5	#10580.00	58.6 PK	74.0	-15.4	1.62 H	300	40.0	18.6
6	#10580.00	46.2 AV	54.0	-7.8	1.62 H	300	27.6	18.6
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	104.3 PK			1.53 V	329	65.2	39.1
2	*5290.00	94.3 AV			1.53 V	329	55.2	39.1
3	5350.00	65.3 PK	74.0	-8.7	1.66 V	332	59.8	5.5
4	5350.00	52.5 AV	54.0	-1.5	1.66 V	332	47.0	5.5
5	#10580.00	58.9 PK	74.0	-15.1	1.34 V	286	40.3	18.6
6	#10580.00	46.3 AV	54.0	-7.7	1.34 V	286	27.7	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	64.3 PK	74.0	-9.7	2.14 H	347	58.6	5.7
2	5460.00	50.6 AV	54.0	-3.4	2.14 H	347	44.9	5.7
3	#5470.00	65.6 PK	74.0	-8.4	2.25 H	345	59.9	5.7
4	#5470.00	52.0 AV	54.0	-2.0	2.25 H	345	46.3	5.7
5	*5530.00	105.8 PK			2.16 H	340	66.2	39.6
6	*5530.00	95.8 AV			2.16 H	340	56.2	39.6
7	11060.00	59.5 PK	74.0	-14.5	1.76 H	304	40.2	19.3
8	11060.00	46.9 AV	54.0	-7.1	1.76 H	304	27.6	19.3
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	64.3 PK	74.0	-9.7	1.71 V	339	58.6	5.7
2	5460.00	51.9 AV	54.0	-2.1	1.71 V	339	46.2	5.7
3	#5470.00	66.7 PK	74.0	-7.3	1.69 V	338	61.0	5.7
4	#5470.00	52.7 AV	54.0	-1.3	1.69 V	338	47.0	5.7
5	*5530.00	105.7 PK			1.67 V	341	66.1	39.6
6	*5530.00	95.3 AV			1.67 V	341	55.7	39.6
7	11060.00	59.5 PK	74.0	-14.5	1.34 V	254	40.2	19.3
8	11060.00	47.0 AV	54.0	-7.0	1.34 V	254	27.7	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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:

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	29.30 QP	40.00	-10.70	1.50 H	277	43.90	-14.60
2	156.28	28.90 QP	43.50	-14.60	1.50 H	130	42.70	-13.80
3	185.44	31.50 QP	43.50	-12.00	1.50 H	103	47.30	-15.80
4	249.60	34.70 QP	46.00	-11.30	1.00 H	16	48.70	-14.00
5	374.04	42.60 QP	46.00	-3.40	1.00 H	136	53.10	-10.50
6	875.67	40.20 QP	46.00	-5.80	1.50 H	41	40.30	-0.10
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	37.90 QP	40.00	-2.10	1.00 V	325	52.50	-14.60
2	125.17	29.00 QP	43.50	-14.50	1.00 V	203	45.10	-16.10
3	249.60	31.80 QP	46.00	-14.20	1.00 V	135	45.80	-14.00
4	374.04	43.50 QP	46.00	-2.50	1.50 V	81	54.00	-10.50
5	624.85	34.80 QP	46.00	-11.20	1.50 V	145	39.50	-4.70
6	875.67	41.00 QP	46.00	-5.00	1.00 V	164	41.10	-0.10

Remarks:

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

Test Mode D

Above 1GHz worst-Case Data:

802.11a

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	4823.00	57.8 PK	74.0	-16.2	1.51 H	330	54.0	3.8
2	4823.00	49.7 AV	54.0	-4.3	1.51 H	330	45.9	3.8
3	*5260.00	116.8 PK			1.65 H	354	77.9	38.9
4	*5260.00	105.7 AV			1.65 H	354	66.8	38.9
5	#10520.00	59.7 PK	74.0	-14.3	1.68 H	330	41.1	18.6
6	#10520.00	47.3 AV	54.0	-6.7	1.68 H	330	28.7	18.6
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	4823.00	55.9 PK	74.0	-18.1	1.64 V	356	52.1	3.8
2	4823.00	46.9 AV	54.0	-7.1	1.64 V	356	43.1	3.8
3	*5260.00	116.6 PK			1.65 V	358	77.7	38.9
4	*5260.00	105.5 AV			1.65 V	358	66.6	38.9
5	#10520.00	59.8 PK	74.0	-14.2	1.42 V	262	41.2	18.6
6	#10520.00	47.7 AV	54.0	-6.3	1.42 V	262	29.1	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	116.5 PK			1.75 H	350	77.4	39.1
2	*5300.00	105.6 AV			1.75 H	350	66.5	39.1
3	10600.00	61.0 PK	74.0	-13.0	1.68 H	274	42.5	18.5
4	10600.00	47.9 AV	54.0	-6.1	1.68 H	274	29.4	18.5
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	115.3 PK			1.70 V	351	76.2	39.1
2	*5300.00	104.5 AV			1.70 V	351	65.4	39.1
3	10600.00	60.1 PK	74.0	-13.9	1.59 V	252	41.6	18.5
4	10600.00	47.7 AV	54.0	-6.3	1.59 V	252	29.2	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	116.7 PK			1.68 H	359	77.6	39.1
2	*5320.00	105.7 AV			1.68 H	359	66.6	39.1
3	5350.00	59.6 PK	74.0	-14.4	1.60 H	344	54.1	5.5
4	5350.00	47.3 AV	54.0	-6.7	1.60 H	344	41.8	5.5
5	10640.00	59.8 PK	74.0	-14.2	1.53 H	277	41.3	18.5
6	10640.00	47.3 AV	54.0	-6.7	1.53 H	277	28.8	18.5
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	115.1 PK			1.61 V	359	76.0	39.1
2	*5320.00	104.4 AV			1.61 V	359	65.3	39.1
3	5350.00	60.7 PK	74.0	-13.3	1.75 V	351	55.2	5.5
4	5350.00	48.2 AV	54.0	-5.8	1.75 V	351	42.7	5.5
5	10640.00	60.2 PK	74.0	-13.8	1.61 V	205	41.7	18.5
6	10640.00	47.5 AV	54.0	-6.5	1.61 V	205	29.0	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5440.00	59.3 PK	74.0	-14.7	1.57 H	348	53.6	5.7
2	5440.00	48.5 AV	54.0	-5.5	1.57 H	348	42.8	5.7
3	#5470.00	60.2 PK	74.0	-13.8	1.47 H	336	54.5	5.7
4	#5470.00	47.3 AV	54.0	-6.7	1.47 H	336	41.6	5.7
5	*5500.00	116.4 PK			1.57 H	343	76.8	39.6
6	*5500.00	105.1 AV			1.57 H	343	65.5	39.6
7	11000.00	60.7 PK	74.0	-13.3	1.53 H	284	41.0	19.7
8	11000.00	48.0 AV	54.0	-6.0	1.53 H	284	28.3	19.7
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	5440.00	59.2 PK	74.0	-14.8	1.88 V	338	53.5	5.7
2	5440.00	47.0 AV	54.0	-7.0	1.88 V	338	41.3	5.7
3	#5470.00	59.3 PK	74.0	-14.7	1.77 V	346	53.6	5.7
4	#5470.00	46.6 AV	54.0	-7.4	1.77 V	346	40.9	5.7
5	*5500.00	115.9 PK			1.69 V	358	76.3	39.6
6	*5500.00	105.4 AV			1.69 V	358	65.8	39.6
7	11000.00	60.1 PK	74.0	-13.9	1.56 V	286	40.4	19.7
8	11000.00	47.2 AV	54.0	-6.8	1.56 V	286	27.5	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	116.3 PK			1.75 H	347	76.5	39.8
2	*5580.00	105.2 AV			1.75 H	347	65.4	39.8
3	11160.00	59.7 PK	74.0	-14.3	1.64 H	288	40.2	19.5
4	11160.00	47.5 AV	54.0	-6.5	1.64 H	288	28.0	19.5
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	114.7 PK			1.68 V	349	74.9	39.8
2	*5580.00	103.9 AV			1.68 V	349	64.1	39.8
3	11160.00	60.6 PK	74.0	-13.4	1.55 V	308	41.1	19.5
4	11160.00	47.4 AV	54.0	-6.6	1.55 V	308	27.9	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	116.9 PK			1.69 H	344	77.0	39.9
2	*5700.00	106.0 AV			1.69 H	344	66.1	39.9
3	#5725.00	62.7 PK	74.0	-11.3	1.65 H	345	56.4	6.3
4	#5725.00	49.6 AV	54.0	-4.4	1.65 H	345	43.3	6.3
5	11400.00	59.9 PK	74.0	-14.1	1.47 H	281	40.6	19.3
6	11400.00	47.3 AV	54.0	-6.7	1.47 H	281	28.0	19.3
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	115.4 PK			1.70 V	359	75.5	39.9
2	*5700.00	105.1 AV			1.70 V	359	65.2	39.9
3	#5725.00	61.8 PK	74.0	-12.2	1.73 V	352	55.5	6.3
4	#5725.00	48.8 AV	54.0	-5.2	1.73 V	352	42.5	6.3
5	11400.00	60.3 PK	74.0	-13.7	1.67 V	281	41.0	19.3
6	11400.00	47.5 AV	54.0	-6.5	1.67 V	281	28.2	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	4823.00	58.4 PK	74.0	-15.6	1.62 H	337	54.6	3.8
2	4823.00	50.2 AV	54.0	-3.8	1.62 H	337	46.4	3.8
3	*5260.00	117.2 PK			1.57 H	340	78.3	38.9
4	*5260.00	105.8 AV			1.57 H	340	66.9	38.9
5	#10520.00	59.6 PK	74.0	-14.4	1.54 H	252	41.0	18.6
6	#10520.00	47.4 AV	54.0	-6.6	1.54 H	252	28.8	18.6
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	4823.00	56.3 PK	74.0	-17.7	1.46 V	348	52.5	3.8
2	4823.00	46.2 AV	54.0	-7.8	1.46 V	348	42.4	3.8
3	*5260.00	116.1 PK			1.52 V	4	77.2	38.9
4	*5260.00	104.9 AV			1.52 V	4	66.0	38.9
5	#10520.00	60.1 PK	74.0	-13.9	1.42 V	288	41.5	18.6
6	#10520.00	47.2 AV	54.0	-6.8	1.42 V	288	28.6	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	116.0 PK			1.53 H	345	76.9	39.1
2	*5300.00	105.5 AV			1.53 H	345	66.4	39.1
3	10600.00	60.5 PK	74.0	-13.5	1.66 H	243	42.0	18.5
4	10600.00	47.7 AV	54.0	-6.3	1.66 H	243	29.2	18.5
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	115.1 PK			1.61 V	3	76.0	39.1
2	*5300.00	104.2 AV			1.61 V	3	65.1	39.1
3	10600.00	59.9 PK	74.0	-14.1	1.58 V	311	41.4	18.5
4	10600.00	47.4 AV	54.0	-6.6	1.58 V	311	28.9	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	116.9 PK			1.60 H	348	77.8	39.1
2	*5320.00	106.3 AV			1.60 H	348	67.2	39.1
3	5350.00	60.6 PK	74.0	-13.4	1.65 H	357	55.1	5.5
4	5350.00	48.6 AV	54.0	-5.4	1.65 H	357	43.1	5.5
5	10640.00	59.6 PK	74.0	-14.4	1.61 H	282	41.1	18.5
6	10640.00	47.3 AV	54.0	-6.7	1.61 H	282	28.8	18.5
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	115.2 PK			1.65 V	3	76.1	39.1
2	*5320.00	104.1 AV			1.65 V	3	65.0	39.1
3	5350.00	61.4 PK	74.0	-12.6	1.68 V	349	55.9	5.5
4	5350.00	48.5 AV	54.0	-5.5	1.68 V	349	43.0	5.5
5	10640.00	60.0 PK	74.0	-14.0	1.64 V	275	41.5	18.5
6	10640.00	47.1 AV	54.0	-6.9	1.64 V	275	28.6	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5440.00	61.2 PK	74.0	-12.8	1.77 H	349	55.5	5.7
2	5440.00	51.9 AV	54.0	-2.1	1.77 H	349	46.2	5.7
3	#5470.00	62.9 PK	74.0	-11.1	1.69 H	356	57.2	5.7
4	#5470.00	49.9 AV	54.0	-4.1	1.69 H	356	44.2	5.7
5	*5500.00	116.4 PK			1.79 H	354	76.8	39.6
6	*5500.00	104.1 AV			1.79 H	354	64.5	39.6
7	11000.00	58.7 PK	74.0	-15.3	1.82 H	284	39.0	19.7
8	11000.00	46.4 AV	54.0	-7.6	1.82 H	284	26.7	19.7
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	5440.00	60.5 PK	74.0	-13.5	1.68 V	1	54.8	5.7
2	5440.00	49.8 AV	54.0	-4.2	1.68 V	1	44.1	5.7
3	#5470.00	60.9 PK	74.0	-13.1	1.80 V	353	55.2	5.7
4	#5470.00	48.4 AV	54.0	-5.6	1.80 V	353	42.7	5.7
5	*5500.00	116.1 PK			1.75 V	355	76.5	39.6
6	*5500.00	105.0 AV			1.75 V	355	65.4	39.6
7	11000.00	59.2 PK	74.0	-14.8	1.56 V	288	39.5	19.7
8	11000.00	46.5 AV	54.0	-7.5	1.56 V	288	26.8	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	117.0 PK			1.68 H	348	77.2	39.8
2	*5580.00	105.6 AV			1.68 H	348	65.8	39.8
3	11160.00	59.1 PK	74.0	-14.9	1.58 H	296	39.6	19.5
4	11160.00	46.6 AV	54.0	-7.4	1.58 H	296	27.1	19.5
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	115.2 PK			1.69 V	355	75.4	39.8
2	*5580.00	104.4 AV			1.69 V	355	64.6	39.8
3	11160.00	59.7 PK	74.0	-14.3	1.57 V	294	40.2	19.5
4	11160.00	46.6 AV	54.0	-7.4	1.57 V	294	27.1	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	117.8 PK			1.59 H	349	77.9	39.9
2	*5700.00	106.6 AV			1.59 H	349	66.7	39.9
3	#5725.00	63.8 PK	74.0	-10.2	1.67 H	343	57.5	6.3
4	#5725.00	50.8 AV	54.0	-3.2	1.67 H	343	44.5	6.3
5	11400.00	61.1 PK	74.0	-12.9	1.57 H	292	41.8	19.3
6	11400.00	47.1 AV	54.0	-6.9	1.57 H	292	27.8	19.3
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	116.1 PK			1.72 V	358	76.2	39.9
2	*5700.00	105.3 AV			1.72 V	358	65.4	39.9
3	#5725.00	62.0 PK	74.0	-12.0	1.62 V	343	55.7	6.3
4	#5725.00	49.3 AV	54.0	-4.7	1.62 V	343	43.0	6.3
5	11400.00	60.5 PK	74.0	-13.5	1.55 V	283	41.2	19.3
6	11400.00	47.8 AV	54.0	-6.2	1.55 V	283	28.5	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	4823.00	57.3 PK	74.0	-16.7	1.59 H	336	53.5	3.8
2	4823.00	48.9 AV	54.0	-5.1	1.59 H	336	45.1	3.8
3	*5270.00	112.5 PK			1.55 H	346	73.5	39.0
4	*5270.00	102.8 AV			1.55 H	346	63.8	39.0
5	#10540.00	60.1 PK	74.0	-13.9	1.54 H	299	41.5	18.6
6	#10540.00	46.8 AV	54.0	-7.2	1.54 H	299	28.2	18.6
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	4823.00	55.5 PK	74.0	-18.5	1.61 V	12	51.7	3.8
2	4823.00	46.0 AV	54.0	-8.0	1.61 V	12	42.2	3.8
3	*5270.00	111.5 PK			1.61 V	355	72.5	39.0
4	*5270.00	102.0 AV			1.61 V	355	63.0	39.0
5	#10540.00	59.9 PK	74.0	-14.1	1.48 V	311	41.3	18.6
6	#10540.00	47.4 AV	54.0	-6.6	1.48 V	311	28.8	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	*5310.00	113.2 PK			1.56 H	344	74.1	39.1
2	*5310.00	103.2 AV			1.56 H	344	64.1	39.1
3	5350.00	63.6 PK	74.0	-10.4	1.55 H	338	58.1	5.5
4	5350.00	50.8 AV	54.0	-3.2	1.55 H	338	45.3	5.5
5	10620.00	60.6 PK	74.0	-13.4	1.62 H	243	42.1	18.5
6	10620.00	47.2 AV	54.0	-6.8	1.62 H	243	28.7	18.5
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	110.9 PK			1.61 V	357	71.8	39.1
2	*5310.00	101.2 AV			1.61 V	357	62.1	39.1
3	5350.00	64.5 PK	74.0	-9.5	1.76 V	358	59.0	5.5
4	5350.00	52.2 AV	54.0	-1.8	1.76 V	358	46.7	5.5
5	10620.00	59.8 PK	74.0	-14.2	1.56 V	281	41.3	18.5
6	10620.00	47.1 AV	54.0	-6.9	1.56 V	281	28.6	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	5440.00	61.9 PK	74.0	-12.1	1.75 H	342	56.2	5.7
2	5440.00	51.3 AV	54.0	-2.7	1.75 H	342	45.6	5.7
3	#5470.00	63.4 PK	74.0	-10.6	1.72 H	347	57.7	5.7
4	#5470.00	50.2 AV	54.0	-3.8	1.72 H	347	44.5	5.7
5	*5510.00	111.8 PK			1.74 H	344	72.2	39.6
6	*5510.00	101.9 AV			1.74 H	344	62.3	39.6
7	11020.00	59.2 PK	74.0	-14.8	1.67 H	275	39.6	19.6
8	11020.00	46.3 AV	54.0	-7.7	1.67 H	275	26.7	19.6
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	5440.00	60.7 PK	74.0	-13.3	1.75 V	342	55.0	5.7
2	5440.00	49.9 AV	54.0	-4.1	1.75 V	342	44.2	5.7
3	#5470.00	62.1 PK	74.0	-11.9	1.70 V	350	56.4	5.7
4	#5470.00	49.1 AV	54.0	-4.9	1.70 V	350	43.4	5.7
5	*5510.00	111.2 PK			1.76 V	351	71.6	39.6
6	*5510.00	102.3 AV			1.76 V	351	62.7	39.6
7	11020.00	58.8 PK	74.0	-15.2	1.61 V	276	39.2	19.6
8	11020.00	46.4 AV	54.0	-7.6	1.61 V	276	26.8	19.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	112.5 PK			1.82 H	352	72.9	39.6
2	*5550.00	102.3 AV			1.82 H	352	62.7	39.6
3	11100.00	59.4 PK	74.0	-14.6	1.66 H	330	40.2	19.2
4	11100.00	46.7 AV	54.0	-7.3	1.66 H	330	27.5	19.2
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	111.8 PK			1.69 V	352	72.2	39.6
2	*5550.00	102.3 AV			1.69 V	352	62.7	39.6
3	11100.00	59.3 PK	74.0	-14.7	1.59 V	268	40.1	19.2
4	11100.00	46.6 AV	54.0	-7.4	1.59 V	268	27.4	19.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	112.4 PK			1.76 H	349	72.6	39.8
2	*5670.00	102.9 AV			1.76 H	349	63.1	39.8
3	#5725.00	60.0 PK	74.0	-14.0	1.63 H	339	53.7	6.3
4	#5725.00	47.2 AV	54.0	-6.8	1.63 H	339	40.9	6.3
5	11340.00	60.1 PK	74.0	-13.9	1.53 H	243	40.6	19.5
6	11340.00	47.7 AV	54.0	-6.3	1.53 H	243	28.2	19.5
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	111.7 PK			1.63 V	348	71.9	39.8
2	*5670.00	102.0 AV			1.63 V	348	62.2	39.8
3	#5725.00	61.5 PK	74.0	-12.5	1.64 V	357	55.2	6.3
4	#5725.00	47.3 AV	54.0	-6.7	1.64 V	357	41.0	6.3
5	11340.00	61.6 PK	74.0	-12.4	1.53 V	301	42.1	19.5
6	11340.00	47.1 AV	54.0	-6.9	1.53 V	301	27.6	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	4823.00	57.3 PK	74.0	-16.7	1.74 H	350	53.5	3.8
2	4823.00	48.6 AV	54.0	-5.4	1.74 H	350	44.8	3.8
3	*5290.00	108.2 PK			1.74 H	349	69.1	39.1
4	*5290.00	97.8 AV			1.74 H	349	58.7	39.1
5	5350.00	64.6 PK	74.0	-9.4	1.62 H	347	59.1	5.5
6	5350.00	51.5 AV	54.0	-2.5	1.62 H	347	46.0	5.5
7	#10580.00	60.5 PK	74.0	-13.5	1.64 H	328	41.9	18.6
8	#10580.00	47.4 AV	54.0	-6.6	1.64 H	328	28.8	18.6
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	4823.00	55.7 PK	74.0	-18.3	1.60 V	352	51.9	3.8
2	4823.00	44.7 AV	54.0	-9.3	1.60 V	352	40.9	3.8
3	*5290.00	107.1 PK			1.71 V	1	68.0	39.1
4	*5290.00	96.9 AV			1.71 V	1	57.8	39.1
5	5350.00	65.2 PK	74.0	-8.8	1.73 V	355	59.7	5.5
6	5350.00	52.6 AV	54.0	-1.4	1.73 V	355	47.1	5.5
7	#10580.00	59.8 PK	74.0	-14.2	1.47 V	286	41.2	18.6
8	#10580.00	47.4 AV	54.0	-6.6	1.47 V	286	28.8	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	5440.00	65.3 PK	74.0	-8.7	1.72 H	337	59.6	5.7
2	5440.00	52.6 AV	54.0	-1.4	1.72 H	337	46.9	5.7
3	#5470.00	66.5 PK	74.0	-7.5	1.73 H	349	60.8	5.7
4	#5470.00	52.5 AV	54.0	-1.5	1.73 H	349	46.8	5.7
5	*5530.00	108.7 PK			1.80 H	348	69.1	39.6
6	*5530.00	98.0 AV			1.80 H	348	58.4	39.6
7	#5725.00	57.3 PK	74.0	-16.7	1.61 H	345	51.0	6.3
8	#5725.00	44.5 AV	54.0	-9.5	1.61 H	345	38.2	6.3
9	11060.00	60.0 PK	74.0	-14.0	1.63 H	88	40.7	19.3
10	11060.00	46.7 AV	54.0	-7.3	1.63 H	88	27.4	19.3
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	5440.00	61.1 PK	74.0	-12.9	1.84 V	0	55.4	5.7
2	5440.00	48.9 AV	54.0	-5.1	1.84 V	0	43.2	5.7
3	#5470.00	62.6 PK	74.0	-11.4	1.75 V	349	56.9	5.7
4	#5470.00	49.4 AV	54.0	-4.6	1.75 V	349	43.7	5.7
5	*5530.00	108.1 PK			1.72 V	347	68.5	39.6
6	*5530.00	97.6 AV			1.72 V	347	58.0	39.6
7	#5725.00	57.0 PK	74.0	-17.0	1.75 V	346	50.7	6.3
8	#5725.00	44.4 AV	54.0	-9.6	1.75 V	346	38.1	6.3
9	11060.00	59.2 PK	74.0	-14.8	1.57 V	243	39.9	19.3
10	11060.00	46.3 AV	54.0	-7.7	1.57 V	243	27.0	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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:

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	35.73	32.80 QP	40.00	-7.20	2.00 H	118	48.40	-15.60
2	125.17	29.60 QP	43.50	-13.90	1.50 H	238	45.70	-16.10
3	179.61	29.20 QP	43.50	-14.30	1.50 H	89	44.30	-15.10
4	249.60	36.30 QP	46.00	-9.70	1.00 H	157	50.30	-14.00
5	374.04	38.40 QP	46.00	-7.60	1.00 H	226	48.90	-10.50
6	875.67	41.70 QP	46.00	-4.30	1.50 H	44	41.80	-0.10
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	33.79	37.60 QP	40.00	-2.40	1.00 V	257	53.30	-15.70
2	53.23	36.40 QP	40.00	-3.60	1.00 V	95	50.60	-14.20
3	125.17	29.80 QP	43.50	-13.70	1.00 V	214	45.90	-16.10
4	249.60	32.80 QP	46.00	-13.20	1.00 V	284	46.80	-14.00
5	374.04	40.10 QP	46.00	-5.90	1.50 V	171	50.60	-10.50
6	875.67	44.20 QP	46.00	-1.80	2.00 V	140	44.30	-0.10

Remarks:

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

Test Mode E

Above 1GHz worst-Case Data:

802.11a

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	4823.00	54.7 PK	74.0	-19.3	1.51 H	342	50.2	4.5
2	4823.00	46.6 AV	54.0	-7.4	1.51 H	342	42.1	4.5
3	*5260.00	116.4 PK			1.36 H	352	76.9	39.5
4	*5260.00	104.9 AV			1.36 H	352	65.4	39.5
5	#10520.00	57.9 PK	74.0	-16.1	1.66 H	283	40.1	17.8
6	#10520.00	44.6 AV	54.0	-9.4	1.66 H	283	26.8	17.8
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	4823.00	54.6 PK	74.0	-19.4	1.37 V	342	50.1	4.5
2	4823.00	44.7 AV	54.0	-9.3	1.37 V	342	40.2	4.5
3	*5260.00	116.2 PK			1.22 V	347	76.7	39.5
4	*5260.00	106.0 AV			1.22 V	347	66.5	39.5
5	#10520.00	57.9 PK	74.0	-16.1	1.65 V	301	40.1	17.8
6	#10520.00	45.2 AV	54.0	-8.8	1.65 V	301	27.4	17.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	115.6 PK			1.36 H	342	76.5	39.1
2	*5300.00	105.0 AV			1.36 H	342	65.9	39.1
3	10600.00	58.8 PK	74.0	-15.2	1.41 H	176	40.3	18.5
4	10600.00	46.0 AV	54.0	-8.0	1.41 H	176	27.5	18.5
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	115.5 PK			1.52 V	343	76.4	39.1
2	*5300.00	105.2 AV			1.52 V	343	66.1	39.1
3	10600.00	58.5 PK	74.0	-15.5	1.62 V	255	40.0	18.5
4	10600.00	45.9 AV	54.0	-8.1	1.62 V	255	27.4	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	115.7 PK			1.44 H	342	76.6	39.1
2	*5320.00	105.0 AV			1.44 H	342	65.9	39.1
3	5350.00	59.4 PK	74.0	-14.6	1.38 H	341	53.9	5.5
4	5350.00	47.8 AV	54.0	-6.2	1.38 H	341	42.3	5.5
5	10640.00	58.8 PK	74.0	-15.2	1.43 H	295	40.3	18.5
6	10640.00	45.7 AV	54.0	-8.3	1.43 H	295	27.2	18.5
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	115.5 PK			1.60 V	347	76.4	39.1
2	*5320.00	105.8 AV			1.60 V	347	66.7	39.1
3	5350.00	59.0 PK	74.0	-15.0	1.48 V	343	53.5	5.5
4	5350.00	46.7 AV	54.0	-7.3	1.48 V	343	41.2	5.5
5	10640.00	58.4 PK	74.0	-15.6	1.35 V	273	39.9	18.5
6	10640.00	46.0 AV	54.0	-8.0	1.35 V	273	27.5	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5440.00	59.9 PK	74.0	-14.1	1.75 H	344	54.2	5.7
2	5440.00	49.7 AV	54.0	-4.3	1.75 H	344	44.0	5.7
3	#5470.00	61.1 PK	74.0	-12.9	1.69 H	344	55.4	5.7
4	#5470.00	48.6 AV	54.0	-5.4	1.69 H	344	42.9	5.7
5	*5500.00	115.9 PK			1.65 H	346	76.3	39.6
6	*5500.00	105.1 AV			1.65 H	346	65.5	39.6
7	11000.00	59.9 PK	74.0	-14.1	1.63 H	294	40.2	19.7
8	11000.00	47.4 AV	54.0	-6.6	1.63 H	294	27.7	19.7
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	5440.00	58.0 PK	74.0	-16.0	1.72 V	349	52.3	5.7
2	5440.00	46.3 AV	54.0	-7.7	1.72 V	349	40.6	5.7
3	#5470.00	59.9 PK	74.0	-14.1	1.64 V	344	54.2	5.7
4	#5470.00	46.6 AV	54.0	-7.4	1.64 V	344	40.9	5.7
5	*5500.00	115.5 PK			1.51 V	346	75.9	39.6
6	*5500.00	104.7 AV			1.51 V	346	65.1	39.6
7	11000.00	60.4 PK	74.0	-13.6	1.58 V	296	40.7	19.7
8	11000.00	47.2 AV	54.0	-6.8	1.58 V	296	27.5	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	116.5 PK			1.71 H	349	76.7	39.8
2	*5580.00	105.9 AV			1.71 H	349	66.1	39.8
3	11160.00	60.1 PK	74.0	-13.9	1.62 H	293	40.6	19.5
4	11160.00	47.0 AV	54.0	-7.0	1.62 H	293	27.5	19.5
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	115.3 PK			1.49 V	349	75.5	39.8
2	*5580.00	105.1 AV			1.49 V	349	65.3	39.8
3	11160.00	59.4 PK	74.0	-14.6	1.59 V	293	39.9	19.5
4	11160.00	46.9 AV	54.0	-7.1	1.59 V	293	27.4	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	117.5 PK			1.51 H	348	77.6	39.9
2	*5700.00	106.5 AV			1.51 H	348	66.6	39.9
3	#5725.00	63.7 PK	74.0	-10.3	1.65 H	350	57.4	6.3
4	#5725.00	49.6 AV	54.0	-4.4	1.65 H	350	43.3	6.3
5	11400.00	60.1 PK	74.0	-13.9	1.58 H	303	40.8	19.3
6	11400.00	48.2 AV	54.0	-5.8	1.58 H	303	28.9	19.3
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	115.8 PK			1.63 V	347	75.9	39.9
2	*5700.00	105.4 AV			1.63 V	347	65.5	39.9
3	#5725.00	62.1 PK	74.0	-11.9	1.57 V	348	55.8	6.3
4	#5725.00	49.7 AV	54.0	-4.3	1.57 V	348	43.4	6.3
5	11400.00	61.0 PK	74.0	-13.0	1.51 V	302	41.7	19.3
6	11400.00	48.0 AV	54.0	-6.0	1.51 V	302	28.7	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	4823.00	56.1 PK	74.0	-17.9	1.38 H	343	52.3	3.8
2	4823.00	46.9 AV	54.0	-7.1	1.38 H	343	43.1	3.8
3	*5260.00	114.4 PK			1.48 H	340	75.5	38.9
4	*5260.00	103.7 AV			1.48 H	340	64.8	38.9
5	#10520.00	59.1 PK	74.0	-14.9	1.43 H	269	40.5	18.6
6	#10520.00	46.0 AV	54.0	-8.0	1.43 H	269	27.4	18.6
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	4823.00	53.8 PK	74.0	-20.2	1.73 V	353	50.0	3.8
2	4823.00	44.6 AV	54.0	-9.4	1.73 V	353	40.8	3.8
3	*5260.00	115.4 PK			1.62 V	344	76.5	38.9
4	*5260.00	104.9 AV			1.62 V	344	66.0	38.9
5	#10520.00	59.0 PK	74.0	-15.0	1.61 V	300	40.4	18.6
6	#10520.00	46.0 AV	54.0	-8.0	1.61 V	300	27.4	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	115.0 PK			1.50 H	342	75.9	39.1
2	*5300.00	104.5 AV			1.50 H	342	65.4	39.1
3	10600.00	59.4 PK	74.0	-14.6	1.38 H	277	40.9	18.5
4	10600.00	46.0 AV	54.0	-8.0	1.38 H	277	27.5	18.5
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	115.9 PK			1.32 V	344	76.8	39.1
2	*5300.00	105.4 AV			1.32 V	344	66.3	39.1
3	10600.00	59.3 PK	74.0	-14.7	1.52 V	259	40.8	18.5
4	10600.00	46.1 AV	54.0	-7.9	1.52 V	259	27.6	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	115.5 PK			1.58 H	339	76.4	39.1
2	*5320.00	104.7 AV			1.58 H	339	65.6	39.1
3	5350.00	58.8 PK	74.0	-15.2	1.70 H	343	53.3	5.5
4	5350.00	47.6 AV	54.0	-6.4	1.70 H	343	42.1	5.5
5	10640.00	58.3 PK	74.0	-15.7	1.58 H	288	39.8	18.5
6	10640.00	45.9 AV	54.0	-8.1	1.58 H	288	27.4	18.5
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	116.0 PK			1.62 V	347	76.9	39.1
2	*5320.00	105.9 AV			1.62 V	347	66.8	39.1
3	5350.00	59.2 PK	74.0	-14.8	1.32 V	342	53.7	5.5
4	5350.00	47.0 AV	54.0	-7.0	1.32 V	342	41.5	5.5
5	10640.00	59.0 PK	74.0	-15.0	1.41 V	277	40.5	18.5
6	10640.00	45.9 AV	54.0	-8.1	1.41 V	277	27.4	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5440.00	57.9 PK	74.0	-16.1	1.67 H	345	52.2	5.7
2	5440.00	47.3 AV	54.0	-6.7	1.67 H	345	41.6	5.7
3	#5470.00	59.7 PK	74.0	-14.3	1.55 H	343	54.0	5.7
4	#5470.00	47.1 AV	54.0	-6.9	1.55 H	343	41.4	5.7
5	*5500.00	115.8 PK			1.42 H	342	76.2	39.6
6	*5500.00	105.3 AV			1.42 H	342	65.7	39.6
7	11000.00	60.0 PK	74.0	-14.0	1.63 H	283	40.3	19.7
8	11000.00	47.2 AV	54.0	-6.8	1.63 H	283	27.5	19.7
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	5440.00	57.3 PK	74.0	-16.7	1.69 V	346	51.6	5.7
2	5440.00	46.2 AV	54.0	-7.8	1.69 V	346	40.5	5.7
3	#5470.00	59.1 PK	74.0	-14.9	1.57 V	346	53.4	5.7
4	#5470.00	46.3 AV	54.0	-7.7	1.57 V	346	40.6	5.7
5	*5500.00	116.1 PK			1.51 V	347	76.5	39.6
6	*5500.00	104.8 AV			1.51 V	347	65.2	39.6
7	11000.00	59.7 PK	74.0	-14.3	1.39 V	229	40.0	19.7
8	11000.00	47.1 AV	54.0	-6.9	1.39 V	229	27.4	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	116.2 PK			1.67 H	348	76.4	39.8
2	*5580.00	105.1 AV			1.67 H	348	65.3	39.8
3	11160.00	59.6 PK	74.0	-14.4	1.58 H	284	40.1	19.5
4	11160.00	46.9 AV	54.0	-7.1	1.58 H	284	27.4	19.5
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	116.1 PK			1.44 V	349	76.3	39.8
2	*5580.00	105.0 AV			1.44 V	349	65.2	39.8
3	11160.00	60.0 PK	74.0	-14.0	1.53 V	221	40.5	19.5
4	11160.00	47.0 AV	54.0	-7.0	1.53 V	221	27.5	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	116.5 PK			1.69 H	348	76.6	39.9
2	*5700.00	106.0 AV			1.69 H	348	66.1	39.9
3	#5725.00	63.1 PK	74.0	-10.9	1.65 H	349	56.8	6.3
4	#5725.00	50.3 AV	54.0	-3.7	1.65 H	349	44.0	6.3
5	11400.00	60.9 PK	74.0	-13.1	1.72 H	288	41.6	19.3
6	11400.00	47.9 AV	54.0	-6.1	1.72 H	288	28.6	19.3
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	116.0 PK			1.57 V	347	76.1	39.9
2	*5700.00	105.1 AV			1.57 V	347	65.2	39.9
3	#5725.00	61.7 PK	74.0	-12.3	1.61 V	343	55.4	6.3
4	#5725.00	49.5 AV	54.0	-4.5	1.61 V	343	43.2	6.3
5	11400.00	60.7 PK	74.0	-13.3	1.69 V	204	41.4	19.3
6	11400.00	47.8 AV	54.0	-6.2	1.69 V	204	28.5	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	4823.00	55.9 PK	74.0	-18.1	1.24 H	342	52.1	3.8
2	4823.00	46.5 AV	54.0	-7.5	1.24 H	342	42.7	3.8
3	*5270.00	110.9 PK			1.45 H	344	71.9	39.0
4	*5270.00	101.5 AV			1.45 H	344	62.5	39.0
5	#10540.00	58.5 PK	74.0	-15.5	1.35 H	282	39.9	18.6
6	#10540.00	46.3 AV	54.0	-7.7	1.35 H	282	27.7	18.6
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	4823.00	54.6 PK	74.0	-19.4	1.40 V	345	50.8	3.8
2	4823.00	45.4 AV	54.0	-8.6	1.40 V	345	41.6	3.8
3	*5270.00	111.7 PK			1.38 V	346	72.7	39.0
4	*5270.00	102.3 AV			1.38 V	346	63.3	39.0
5	#10540.00	60.3 PK	74.0	-13.7	1.42 V	269	41.7	18.6
6	#10540.00	46.5 AV	54.0	-7.5	1.42 V	269	27.9	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	*5310.00	111.9 PK			1.49 H	341	72.8	39.1
2	*5310.00	102.4 AV			1.49 H	341	63.3	39.1
3	5350.00	63.2 PK	74.0	-10.8	1.50 H	342	57.7	5.5
4	5350.00	50.8 AV	54.0	-3.2	1.50 H	342	45.3	5.5
5	10620.00	59.2 PK	74.0	-14.8	1.58 H	271	40.7	18.5
6	10620.00	46.1 AV	54.0	-7.9	1.58 H	271	27.6	18.5
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			1.48 V	347	73.0	39.1
2	*5310.00	102.9 AV			1.48 V	347	63.8	39.1
3	5350.00	64.6 PK	74.0	-9.4	1.46 V	342	59.1	5.5
4	5350.00	52.2 AV	54.0	-1.8	1.46 V	342	46.7	5.5
5	10620.00	58.8 PK	74.0	-15.2	1.37 V	284	40.3	18.5
6	10620.00	46.2 AV	54.0	-7.8	1.37 V	284	27.7	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	5440.00	59.2 PK	74.0	-14.8	1.58 H	344	53.5	5.7
2	5440.00	47.7 AV	54.0	-6.3	1.58 H	344	42.0	5.7
3	#5470.00	61.2 PK	74.0	-12.8	1.65 H	345	55.5	5.7
4	#5470.00	48.6 AV	54.0	-5.4	1.65 H	345	42.9	5.7
5	*5510.00	112.4 PK			1.57 H	343	72.8	39.6
6	*5510.00	102.4 AV			1.57 H	343	62.8	39.6
7	11020.00	59.7 PK	74.0	-14.3	1.65 H	229	40.1	19.6
8	11020.00	47.5 AV	54.0	-6.5	1.65 H	229	27.9	19.6
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	5440.00	57.9 PK	74.0	-16.1	1.69 V	344	52.2	5.7
2	5440.00	47.7 AV	54.0	-6.3	1.69 V	344	42.0	5.7
3	#5470.00	60.3 PK	74.0	-13.7	1.47 V	343	54.6	5.7
4	#5470.00	47.4 AV	54.0	-6.6	1.47 V	343	41.7	5.7
5	*5510.00	111.8 PK			1.64 V	345	72.2	39.6
6	*5510.00	102.1 AV			1.64 V	345	62.5	39.6
7	11020.00	60.0 PK	74.0	-14.0	1.43 V	282	40.4	19.6
8	11020.00	47.5 AV	54.0	-6.5	1.43 V	282	27.9	19.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	112.0 PK			1.67 H	349	72.4	39.6
2	*5550.00	102.3 AV			1.67 H	349	62.7	39.6
3	11100.00	60.0 PK	74.0	-14.0	1.72 H	219	40.8	19.2
4	11100.00	47.1 AV	54.0	-6.9	1.72 H	219	27.9	19.2
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	112.3 PK			1.63 V	348	72.7	39.6
2	*5550.00	102.8 AV			1.63 V	348	63.2	39.6
3	11100.00	60.2 PK	74.0	-13.8	1.66 V	180	41.0	19.2
4	11100.00	47.4 AV	54.0	-6.6	1.66 V	180	28.2	19.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	112.3 PK			1.73 H	349	72.5	39.8
2	*5670.00	102.8 AV			1.73 H	349	63.0	39.8
3	#5725.00	60.4 PK	74.0	-13.6	1.59 H	350	54.1	6.3
4	#5725.00	48.0 AV	54.0	-6.0	1.59 H	350	41.7	6.3
5	11340.00	60.1 PK	74.0	-13.9	1.52 H	211	40.6	19.5
6	11340.00	48.0 AV	54.0	-6.0	1.52 H	211	28.5	19.5
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	111.2 PK			1.46 V	348	71.4	39.8
2	*5670.00	102.0 AV			1.46 V	348	62.2	39.8
3	#5725.00	60.2 PK	74.0	-13.8	1.48 V	347	53.9	6.3
4	#5725.00	47.5 AV	54.0	-6.5	1.48 V	347	41.2	6.3
5	11340.00	60.6 PK	74.0	-13.4	1.62 V	181	41.1	19.5
6	11340.00	47.9 AV	54.0	-6.1	1.62 V	181	28.4	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	4823.00	55.3 PK	74.0	-18.7	1.76 H	343	51.5	3.8
2	4823.00	45.3 AV	54.0	-8.7	1.76 H	343	41.5	3.8
3	*5290.00	107.1 PK			1.51 H	341	68.0	39.1
4	*5290.00	96.9 AV			1.51 H	341	57.8	39.1
5	5350.00	65.6 PK	74.0	-8.4	1.45 H	341	60.1	5.5
6	5350.00	52.7 AV	54.0	-1.3	1.45 H	341	47.2	5.5
7	#10580.00	59.2 PK	74.0	-14.8	1.58 H	266	40.6	18.6
8	#10580.00	46.4 AV	54.0	-7.6	1.58 H	266	27.8	18.6
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	4823.00	55.0 PK	74.0	-19.0	1.46 V	342	51.2	3.8
2	4823.00	44.1 AV	54.0	-9.9	1.46 V	342	40.3	3.8
3	*5290.00	107.1 PK			1.43 V	347	68.0	39.1
4	*5290.00	97.7 AV			1.43 V	347	58.6	39.1
5	5350.00	64.9 PK	74.0	-9.1	1.35 V	341	59.4	5.5
6	5350.00	52.1 AV	54.0	-1.9	1.35 V	341	46.6	5.5
7	#10580.00	59.1 PK	74.0	-14.9	1.57 V	289	40.5	18.6
8	#10580.00	46.4 AV	54.0	-7.6	1.57 V	289	27.8	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	62.2 PK	74.0	-11.8	1.68 H	342	56.5	5.7
2	5460.00	49.8 AV	54.0	-4.2	1.68 H	342	44.1	5.7
3	#5470.00	65.5 PK	74.0	-8.5	1.55 H	346	59.8	5.7
4	#5470.00	50.2 AV	54.0	-3.8	1.55 H	346	44.5	5.7
5	*5530.00	108.2 PK			1.71 H	344	68.6	39.6
6	*5530.00	98.0 AV			1.71 H	344	58.4	39.6
7	11060.00	60.7 PK	74.0	-13.3	1.61 H	221	41.4	19.3
8	11060.00	47.3 AV	54.0	-6.7	1.61 H	221	28.0	19.3
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	5440.00	60.3 PK	74.0	-13.7	1.63 V	342	54.6	5.7
2	5440.00	48.6 AV	54.0	-5.4	1.63 V	342	42.9	5.7
3	#5470.00	64.3 PK	74.0	-9.7	1.64 V	347	58.6	5.7
4	#5470.00	49.7 AV	54.0	-4.3	1.64 V	347	44.0	5.7
5	*5530.00	108.5 PK			1.66 V	347	68.9	39.6
6	*5530.00	98.4 AV			1.66 V	347	58.8	39.6
7	11060.00	60.3 PK	74.0	-13.7	1.64 V	180	41.0	19.3
8	11060.00	47.5 AV	54.0	-6.5	1.64 V	180	28.2	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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:

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	35.73	35.90 QP	40.00	-4.10	2.00 H	174	51.50	-15.60
2	90.17	34.90 QP	43.50	-8.60	2.00 H	214	54.60	-19.70
3	125.17	32.20 QP	43.50	-11.30	2.00 H	245	48.30	-16.10
4	249.60	34.00 QP	46.00	-12.00	1.50 H	38	48.00	-14.00
5	374.04	38.20 QP	46.00	-7.80	1.00 H	333	48.70	-10.50
6	875.67	40.10 QP	46.00	-5.90	2.00 H	234	40.20	-0.10
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	36.23	37.70 QP	40.00	-2.30	1.00 V	9	53.30	-15.60
2	94.06	36.50 QP	43.50	-7.00	1.50 V	150	56.10	-19.60
3	249.60	34.60 QP	46.00	-11.40	1.00 V	125	48.60	-14.00
4	374.04	36.90 QP	46.00	-9.10	1.00 V	286	47.40	-10.50
5	624.85	36.90 QP	46.00	-9.10	1.50 V	272	41.60	-4.70
6	875.67	42.00 QP	46.00	-4.00	1.00 V	278	42.10	-0.10

Remarks:

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

Test Mode F

Above 1GHz worst-Case Data:

802.11a

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	5150.00	55.2 PK	74.0	-18.8	2.82 H	356	50.4	4.8
2	5150.00	42.5 AV	54.0	-11.5	2.82 H	356	37.7	4.8
3	*5260.00	111.1 PK			2.79 H	351	72.2	38.9
4	*5260.00	100.8 AV			2.79 H	351	61.9	38.9
5	#10520.00	63.0 PK	74.0	-11.0	2.22 H	52	44.4	18.6
6	#10520.00	49.6 AV	54.0	-4.4	2.22 H	52	31.0	18.6
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	5150.00	56.2 PK	74.0	-17.8	2.66 V	25	51.4	4.8
2	5150.00	42.8 AV	54.0	-11.2	2.66 V	25	38.0	4.8
3	*5260.00	108.6 PK			2.70 V	32	69.7	38.9
4	*5260.00	98.2 AV			2.70 V	32	59.3	38.9
5	#10520.00	67.6 PK	74.0	-6.4	2.93 V	335	49.0	18.6
6	#10520.00	52.8 AV	54.0	-1.2	2.93 V	335	34.2	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	111.4 PK			2.41 H	352	72.3	39.1
2	*5300.00	101.2 AV			2.41 H	352	62.1	39.1
3	10600.00	63.9 PK	74.0	-10.1	2.86 H	33	45.4	18.5
4	10600.00	50.5 AV	54.0	-3.5	2.86 H	33	32.0	18.5
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	110.0 PK			2.79 V	14	70.9	39.1
2	*5300.00	99.6 AV			2.79 V	14	60.5	39.1
3	10600.00	63.4 PK	74.0	-10.6	2.97 V	334	44.9	18.5
4	10600.00	50.7 AV	54.0	-3.3	2.97 V	334	32.2	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	111.7 PK			3.00 H	351	72.6	39.1
2	*5320.00	101.2 AV			3.00 H	351	62.1	39.1
3	5350.00	63.2 PK	74.0	-10.8	2.47 H	347	57.7	5.5
4	5350.00	52.0 AV	54.0	-2.0	2.47 H	347	46.5	5.5
5	10640.00	63.0 PK	74.0	-11.0	2.73 H	280	44.5	18.5
6	10640.00	50.0 AV	54.0	-4.0	2.73 H	280	31.5	18.5
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	110.6 PK			3.18 V	16	71.5	39.1
2	*5320.00	100.1 AV			3.18 V	16	61.0	39.1
3	5350.00	65.8 PK	74.0	-8.2	2.87 V	34	60.3	5.5
4	5350.00	52.7 AV	54.0	-1.3	2.87 V	34	47.2	5.5
5	10640.00	64.4 PK	74.0	-9.6	2.85 V	335	45.9	18.5
6	10640.00	50.6 AV	54.0	-3.4	2.85 V	335	32.1	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	61.5 PK	74.0	-12.5	1.31 H	357	55.8	5.7
2	5460.00	47.8 AV	54.0	-6.2	1.31 H	357	42.1	5.7
3	#5470.00	67.4 PK	74.0	-6.6	1.30 H	357	61.7	5.7
4	#5470.00	52.4 AV	54.0	-1.6	1.30 H	357	46.7	5.7
5	*5500.00	112.2 PK			1.32 H	359	72.6	39.6
6	*5500.00	101.7 AV			1.32 H	359	62.1	39.6
7	11000.00	59.9 PK	74.0	-14.1	1.68 H	58	40.2	19.7
8	11000.00	47.1 AV	54.0	-6.9	1.68 H	58	27.4	19.7
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	59.8 PK	74.0	-14.2	2.79 V	15	54.1	5.7
2	5460.00	46.8 AV	54.0	-7.2	2.79 V	15	41.1	5.7
3	#5470.00	65.7 PK	74.0	-8.3	2.76 V	12	60.0	5.7
4	#5470.00	50.7 AV	54.0	-3.3	2.76 V	12	45.0	5.7
5	*5500.00	110.3 PK			2.89 V	14	70.7	39.6
6	*5500.00	100.0 AV			2.89 V	14	60.4	39.6
7	11000.00	60.3 PK	74.0	-13.7	1.69 V	104	40.6	19.7
8	11000.00	47.1 AV	54.0	-6.9	1.69 V	104	27.4	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	112.2 PK			1.25 H	358	72.4	39.8
2	*5580.00	102.1 AV			1.25 H	358	62.3	39.8
3	11160.00	60.5 PK	74.0	-13.5	1.61 H	307	41.0	19.5
4	11160.00	48.0 AV	54.0	-6.0	1.61 H	307	28.5	19.5
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	110.6 PK			2.68 V	15	70.8	39.8
2	*5580.00	100.3 AV			2.68 V	15	60.5	39.8
3	11160.00	60.0 PK	74.0	-14.0	1.87 V	57	40.5	19.5
4	11160.00	47.6 AV	54.0	-6.4	1.87 V	57	28.1	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	107.9 PK			1.21 H	338	68.0	39.9
2	*5700.00	97.6 AV			1.21 H	338	57.7	39.9
3	#5725.00	67.6 PK	74.0	-6.4	1.20 H	337	61.3	6.3
4	#5725.00	52.3 AV	54.0	-1.7	1.20 H	337	46.0	6.3
5	11400.00	60.6 PK	74.0	-13.4	1.71 H	86	41.3	19.3
6	11400.00	48.2 AV	54.0	-5.8	1.71 H	86	28.9	19.3
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	107.7 PK			2.68 V	15	67.8	39.9
2	*5700.00	97.3 AV			2.68 V	15	57.4	39.9
3	#5725.00	65.1 PK	74.0	-8.9	2.58 V	19	58.8	6.3
4	#5725.00	52.3 AV	54.0	-1.7	2.58 V	19	46.0	6.3
5	11400.00	60.2 PK	74.0	-13.8	1.29 V	260	40.9	19.3
6	11400.00	48.0 AV	54.0	-6.0	1.29 V	260	28.7	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5150.00	55.4 PK	74.0	-18.6	2.64 H	339	50.6	4.8
2	5150.00	42.8 AV	54.0	-11.2	2.64 H	339	38.0	4.8
3	*5260.00	112.3 PK			2.57 H	351	73.4	38.9
4	*5260.00	102.4 AV			2.57 H	351	63.5	38.9
5	#10520.00	62.6 PK	74.0	-11.4	1.53 H	310	44.0	18.6
6	#10520.00	49.9 AV	54.0	-4.1	1.53 H	310	31.3	18.6
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	5150.00	55.6 PK	74.0	-18.4	2.62 V	22	50.8	4.8
2	5150.00	42.8 AV	54.0	-11.2	2.62 V	22	38.0	4.8
3	*5260.00	111.3 PK			2.83 V	9	72.4	38.9
4	*5260.00	101.1 AV			2.83 V	9	62.2	38.9
5	#10520.00	64.8 PK	74.0	-9.2	3.12 V	324	46.2	18.6
6	#10520.00	51.4 AV	54.0	-2.6	3.12 V	324	32.8	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	112.0 PK			1.70 H	350	72.9	39.1
2	*5300.00	101.4 AV			1.70 H	350	62.3	39.1
3	10600.00	61.7 PK	74.0	-12.3	1.78 H	295	43.2	18.5
4	10600.00	48.8 AV	54.0	-5.2	1.78 H	295	30.3	18.5
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	111.2 PK			3.05 V	13	72.1	39.1
2	*5300.00	101.0 AV			3.05 V	13	61.9	39.1
3	10600.00	61.3 PK	74.0	-12.7	1.58 V	302	42.8	18.5
4	10600.00	49.0 AV	54.0	-5.0	1.58 V	302	30.5	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	*5320.00	111.4 PK			2.99 H	351	72.3	39.1
2	*5320.00	101.0 AV			2.99 H	351	61.9	39.1
3	5350.00	65.7 PK	74.0	-8.3	2.96 H	353	60.2	5.5
4	5350.00	52.3 AV	54.0	-1.7	2.96 H	353	46.8	5.5
5	10640.00	60.4 PK	74.0	-13.6	1.64 H	75	41.9	18.5
6	10640.00	47.7 AV	54.0	-6.3	1.64 H	75	29.2	18.5
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	110.2 PK			2.88 V	12	71.1	39.1
2	*5320.00	99.9 AV			2.88 V	12	60.8	39.1
3	5350.00	65.2 PK	74.0	-8.8	2.88 V	11	59.7	5.5
4	5350.00	52.0 AV	54.0	-2.0	2.88 V	11	46.5	5.5
5	10640.00	60.8 PK	74.0	-13.2	1.51 V	302	42.3	18.5
6	10640.00	48.2 AV	54.0	-5.8	1.51 V	302	29.7	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	60.2 PK	74.0	-13.8	1.38 H	347	54.5	5.7
2	5460.00	47.4 AV	54.0	-6.6	1.38 H	347	41.7	5.7
3	#5470.00	66.4 PK	74.0	-7.6	1.28 H	345	60.7	5.7
4	#5470.00	52.2 AV	54.0	-1.8	1.28 H	345	46.5	5.7
5	*5500.00	110.4 PK			1.35 H	345	70.8	39.6
6	*5500.00	100.4 AV			1.35 H	345	60.8	39.6
7	11000.00	59.7 PK	74.0	-14.3	1.64 H	273	40.0	19.7
8	11000.00	47.3 AV	54.0	-6.7	1.64 H	273	27.6	19.7
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	59.7 PK	74.0	-14.3	2.74 V	11	54.0	5.7
2	5460.00	46.4 AV	54.0	-7.6	2.74 V	11	40.7	5.7
3	#5470.00	65.5 PK	74.0	-8.5	2.76 V	13	59.8	5.7
4	#5470.00	49.9 AV	54.0	-4.1	2.76 V	13	44.2	5.7
5	*5500.00	109.1 PK			2.63 V	16	69.5	39.6
6	*5500.00	99.2 AV			2.63 V	16	59.6	39.6
7	11000.00	59.4 PK	74.0	-14.6	1.79 V	310	39.7	19.7
8	11000.00	47.5 AV	54.0	-6.5	1.79 V	310	27.8	19.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	111.8 PK			1.22 H	343	72.0	39.8
2	*5580.00	101.7 AV			1.22 H	343	61.9	39.8
3	11160.00	60.5 PK	74.0	-13.5	1.58 H	306	41.0	19.5
4	11160.00	48.1 AV	54.0	-5.9	1.58 H	306	28.6	19.5
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	111.3 PK			2.95 V	21	71.5	39.8
2	*5580.00	100.9 AV			2.95 V	21	61.1	39.8
3	11160.00	59.6 PK	74.0	-14.4	2.22 V	194	40.1	19.5
4	11160.00	46.9 AV	54.0	-7.1	2.22 V	194	27.4	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	106.9 PK			1.13 H	345	67.0	39.9
2	*5700.00	95.0 AV			1.13 H	345	55.1	39.9
3	#5725.00	67.1 PK	74.0	-6.9	1.15 H	345	60.8	6.3
4	#5725.00	52.3 AV	54.0	-1.7	1.15 H	345	46.0	6.3
5	11400.00	60.4 PK	74.0	-13.6	1.37 H	202	41.1	19.3
6	11400.00	47.6 AV	54.0	-6.4	1.37 H	202	28.3	19.3
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	106.4 PK			2.83 V	17	66.5	39.9
2	*5700.00	96.8 AV			2.83 V	17	56.9	39.9
3	#5725.00	67.9 PK	74.0	-6.1	2.81 V	19	61.6	6.3
4	#5725.00	52.0 AV	54.0	-2.0	2.81 V	19	45.7	6.3
5	11400.00	60.2 PK	74.0	-13.8	2.05 V	109	40.9	19.3
6	11400.00	47.5 AV	54.0	-6.5	2.05 V	109	28.2	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	5150.00	56.0 PK	74.0	-18.0	1.75 H	354	51.2	4.8
2	5150.00	44.6 AV	54.0	-9.4	1.75 H	354	39.8	4.8
3	*5270.00	109.0 PK			1.78 H	348	70.0	39.0
4	*5270.00	98.8 AV			1.78 H	348	59.8	39.0
5	5350.00	63.3 PK	74.0	-10.7	1.75 H	354	57.8	5.5
6	5350.00	49.2 AV	54.0	-4.8	1.75 H	354	43.7	5.5
7	#10540.00	60.4 PK	74.0	-13.6	1.76 H	44	41.8	18.6
8	#10540.00	49.2 AV	54.0	-4.8	1.76 H	44	30.6	18.6
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	5150.00	55.9 PK	74.0	-18.1	2.90 V	11	51.1	4.8
2	5150.00	44.3 AV	54.0	-9.7	2.90 V	11	39.5	4.8
3	*5270.00	108.1 PK			2.82 V	11	69.1	39.0
4	*5270.00	98.5 AV			2.82 V	11	59.5	39.0
5	5350.00	61.7 PK	74.0	-12.3	2.90 V	11	56.2	5.5
6	5350.00	48.3 AV	54.0	-5.7	2.90 V	11	42.8	5.5
7	#10540.00	60.0 PK	74.0	-14.0	1.99 V	301	41.4	18.6
8	#10540.00	48.1 AV	54.0	-5.9	1.99 V	301	29.5	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	*5310.00	103.3 PK			3.01 H	349	64.2	39.1
2	*5310.00	93.4 AV			3.01 H	349	54.3	39.1
3	5350.00	64.3 PK	74.0	-9.7	2.96 H	353	58.8	5.5
4	5350.00	52.8 AV	54.0	-1.2	2.96 H	353	47.3	5.5
5	10620.00	59.6 PK	74.0	-14.4	1.90 H	64	41.1	18.5
6	10620.00	47.9 AV	54.0	-6.1	1.90 H	64	29.4	18.5
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	102.1 PK			2.77 V	11	63.0	39.1
2	*5310.00	92.6 AV			2.77 V	11	53.5	39.1
3	5350.00	62.9 PK	74.0	-11.1	2.88 V	13	57.4	5.5
4	5350.00	51.1 AV	54.0	-2.9	2.88 V	13	45.6	5.5
5	10620.00	60.1 PK	74.0	-13.9	1.73 V	201	41.6	18.5
6	10620.00	47.8 AV	54.0	-6.2	1.73 V	201	29.3	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	59.4 PK	74.0	-14.6	1.38 H	345	53.7	5.7
2	5460.00	46.8 AV	54.0	-7.2	1.38 H	345	41.1	5.7
3	#5470.00	66.2 PK	74.0	-7.8	1.40 H	345	60.5	5.7
4	#5470.00	52.3 AV	54.0	-1.7	1.40 H	345	46.6	5.7
5	*5510.00	104.1 PK			1.42 H	345	64.5	39.6
6	*5510.00	94.6 AV			1.42 H	345	55.0	39.6
7	11020.00	59.5 PK	74.0	-14.5	1.32 H	183	39.9	19.6
8	11020.00	47.8 AV	54.0	-6.2	1.32 H	183	28.2	19.6
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	58.5 PK	74.0	-15.5	2.65 V	14	52.8	5.7
2	5460.00	46.4 AV	54.0	-7.6	2.65 V	14	40.7	5.7
3	#5470.00	64.0 PK	74.0	-10.0	2.77 V	10	58.3	5.7
4	#5470.00	50.9 AV	54.0	-3.1	2.77 V	10	45.2	5.7
5	*5510.00	102.8 PK			2.86 V	16	63.2	39.6
6	*5510.00	93.7 AV			2.86 V	16	54.1	39.6
7	11020.00	59.7 PK	74.0	-14.3	2.20 V	301	40.1	19.6
8	11020.00	48.6 AV	54.0	-5.4	2.20 V	301	29.0	19.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	#5470.00	61.9 PK	74.0	-12.1	1.40 H	344	56.2	5.7
2	#5470.00	48.7 AV	54.0	-5.3	1.40 H	344	43.0	5.7
3	*5550.00	108.8 PK			1.38 H	343	69.2	39.6
4	*5550.00	99.3 AV			1.38 H	343	59.7	39.6
5	11100.00	60.5 PK	74.0	-13.5	1.47 H	283	41.3	19.2
6	11100.00	48.0 AV	54.0	-6.0	1.47 H	283	28.8	19.2
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	60.6 PK	74.0	-13.4	2.76 V	12	54.9	5.7
2	#5470.00	47.8 AV	54.0	-6.2	2.76 V	12	42.1	5.7
3	*5550.00	108.0 PK			2.73 V	15	68.4	39.6
4	*5550.00	98.0 AV			2.73 V	15	58.4	39.6
5	11100.00	60.1 PK	74.0	-13.9	1.92 V	227	40.9	19.2
6	11100.00	48.0 AV	54.0	-6.0	1.92 V	227	28.8	19.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	104.7 PK			2.06 H	340	64.9	39.8
2	*5670.00	95.4 AV			2.06 H	340	55.6	39.8
3	#5725.00	66.7 PK	74.0	-7.3	2.07 H	343	60.4	6.3
4	#5725.00	52.4 AV	54.0	-1.6	2.07 H	343	46.1	6.3
5	11340.00	60.3 PK	74.0	-13.7	1.77 H	254	40.8	19.5
6	11340.00	47.9 AV	54.0	-6.1	1.77 H	254	28.4	19.5
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	105.4 PK			2.85 V	17	65.6	39.8
2	*5670.00	95.9 AV			2.85 V	17	56.1	39.8
3	#5725.00	63.0 PK	74.0	-11.0	2.79 V	19	56.7	6.3
4	#5725.00	51.8 AV	54.0	-2.2	2.79 V	19	45.5	6.3
5	11340.00	59.9 PK	74.0	-14.1	1.84 V	249	40.4	19.5
6	11340.00	48.4 AV	54.0	-5.6	1.84 V	249	28.9	19.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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	95.7 PK			2.72 H	352	56.6	39.1
2	*5290.00	85.5 AV			2.72 H	352	46.4	39.1
3	5350.00	65.0 PK	74.0	-9.0	2.70 H	350	59.5	5.5
4	5350.00	52.4 AV	54.0	-1.6	2.70 H	350	46.9	5.5
5	#10580.00	59.2 PK	74.0	-14.8	2.41 H	278	40.6	18.6
6	#10580.00	48.2 AV	54.0	-5.8	2.41 H	278	29.6	18.6
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	95.1 PK			2.79 V	10	56.0	39.1
2	*5290.00	84.7 AV			2.79 V	10	45.6	39.1
3	5350.00	64.2 PK	74.0	-9.8	2.88 V	11	58.7	5.5
4	5350.00	51.4 AV	54.0	-2.6	2.88 V	11	45.9	5.5
5	#10580.00	59.3 PK	74.0	-14.7	2.12 V	224	40.7	18.6
6	#10580.00	48.0 AV	54.0	-6.0	2.12 V	224	29.4	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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) 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	59.5 PK	74.0	-14.5	1.42 H	359	53.8	5.7
2	5460.00	47.5 AV	54.0	-6.5	1.42 H	359	41.8	5.7
3	#5470.00	68.1 PK	74.0	-5.9	1.42 H	0	62.4	5.7
4	#5470.00	52.5 AV	54.0	-1.5	1.42 H	0	46.8	5.7
5	*5530.00	97.3 PK			1.34 H	359	57.7	39.6
6	*5530.00	86.5 AV			1.34 H	359	46.9	39.6
7	11060.00	60.7 PK	74.0	-13.3	1.45 H	285	41.4	19.3
8	11060.00	48.1 AV	54.0	-5.9	1.45 H	285	28.8	19.3
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	57.9 PK	74.0	-16.1	2.62 V	10	52.2	5.7
2	5460.00	46.1 AV	54.0	-7.9	2.62 V	10	40.4	5.7
3	#5470.00	64.3 PK	74.0	-9.7	2.71 V	12	58.6	5.7
4	#5470.00	50.9 AV	54.0	-3.1	2.71 V	12	45.2	5.7
5	*5530.00	95.9 PK			2.74 V	15	56.3	39.6
6	*5530.00	85.3 AV			2.74 V	15	45.7	39.6
7	11060.00	60.1 PK	74.0	-13.9	1.72 V	286	40.8	19.3
8	11060.00	48.4 AV	54.0	-5.6	1.72 V	286	29.1	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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:

802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	28.00 QP	40.00	-12.00	2.00 H	16	42.60	-14.60
2	179.61	28.80 QP	43.50	-14.70	1.50 H	261	43.90	-15.10
3	204.89	27.80 QP	43.50	-15.70	1.00 H	246	44.30	-16.50
4	249.60	34.90 QP	46.00	-11.10	1.00 H	138	48.90	-14.00
5	374.04	37.10 QP	46.00	-8.90	2.00 H	233	47.60	-10.50
6	875.67	44.30 QP	46.00	-1.70	2.00 H	341	44.40	-0.10
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	37.00 QP	40.00	-3.00	1.00 V	355	51.60	-14.60
2	125.17	29.20 QP	43.50	-14.30	1.00 V	237	45.30	-16.10
3	175.72	28.30 QP	43.50	-15.20	1.00 V	142	42.90	-14.60
4	249.60	35.20 QP	46.00	-10.80	2.00 V	180	49.20	-14.00
5	374.04	41.50 QP	46.00	-4.50	1.00 V	204	52.00	-10.50
6	875.67	43.90 QP	46.00	-2.10	1.00 V	346	44.00	-0.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
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 (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Dec. 23, 2015	Dec. 22, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 11, 2016	Jan. 10, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 26, 2016	Jul. 25, 2017
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.

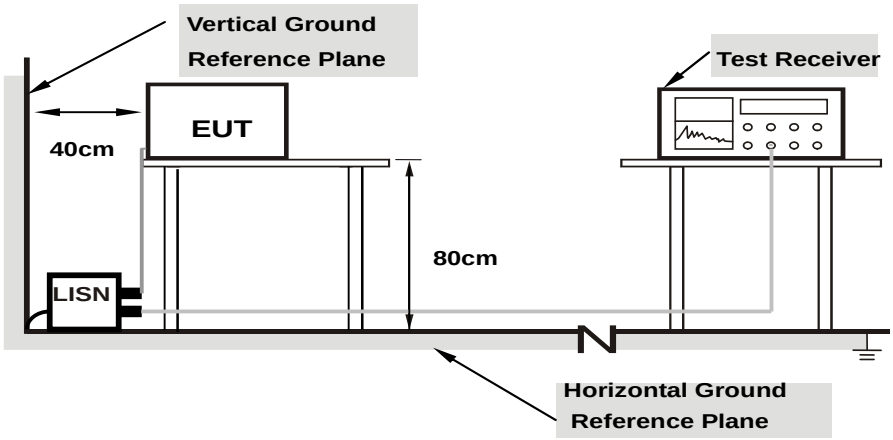
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

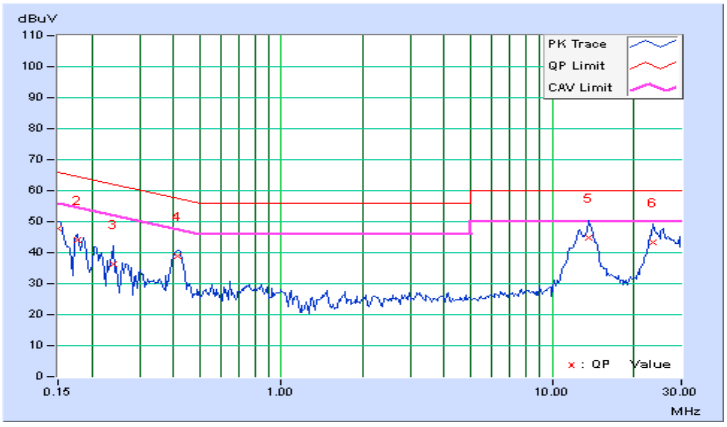
Test Mode A

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	37.76	28.43	47.88	38.55	66.00	56.00	-18.12	-17.45
2	0.17734	10.14	33.87	22.92	44.01	33.06	64.61	54.61	-20.60	-21.55
3	0.23984	10.17	26.08	17.27	36.25	27.44	62.10	52.10	-25.85	-24.66
4	0.41563	10.19	28.71	20.80	38.90	30.99	57.54	47.54	-18.64	-16.55
5	13.62891	10.52	34.39	28.95	44.91	39.47	60.00	50.00	-15.09	-10.53
6	23.64453	10.54	32.84	27.50	43.38	38.04	60.00	50.00	-16.62	-11.96

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.

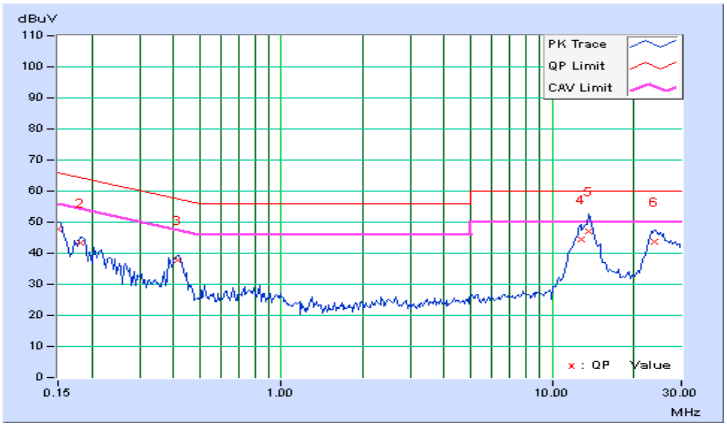


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	37.68	27.98	47.81	38.11	66.00	56.00	-18.19	-17.89
2	0.18125	10.15	33.11	22.31	43.26	32.46	64.43	54.43	-21.17	-21.97
3	0.41563	10.19	27.52	19.21	37.71	29.40	57.54	47.54	-19.83	-18.14
4	12.81250	10.61	33.73	28.23	44.34	38.84	60.00	50.00	-15.66	-11.16
5	13.57031	10.62	36.54	30.84	47.16	41.46	60.00	50.00	-12.84	-8.54
6	23.75781	10.69	33.10	27.82	43.79	38.51	60.00	50.00	-16.21	-11.49

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.



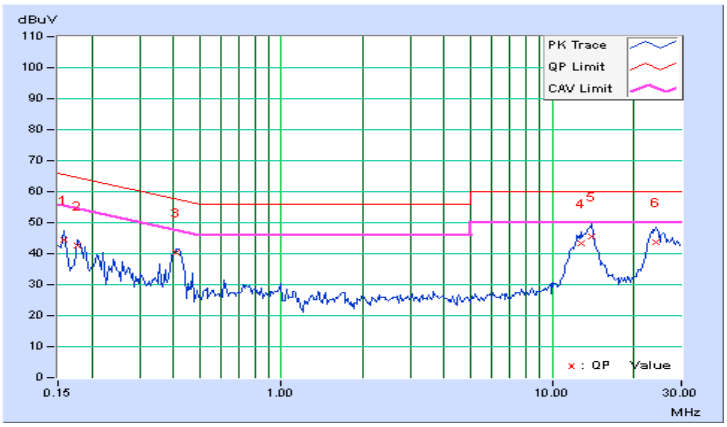
Test Mode B

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	0.15781	10.13	34.47	20.68	44.60	30.81	65.58	55.58	-20.98	-24.77
2	0.17734	10.14	32.55	21.97	42.69	32.11	64.61	54.61	-21.92	-22.50
3	0.41172	10.19	30.10	21.25	40.29	31.44	57.61	47.61	-17.32	-16.17
4	12.82031	10.51	32.89	27.44	43.40	37.95	60.00	50.00	-16.60	-12.05
5	13.96484	10.52	34.91	29.60	45.43	40.12	60.00	50.00	-14.57	-9.88
6	24.06250	10.53	33.16	27.70	43.69	38.23	60.00	50.00	-16.31	-11.77

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.

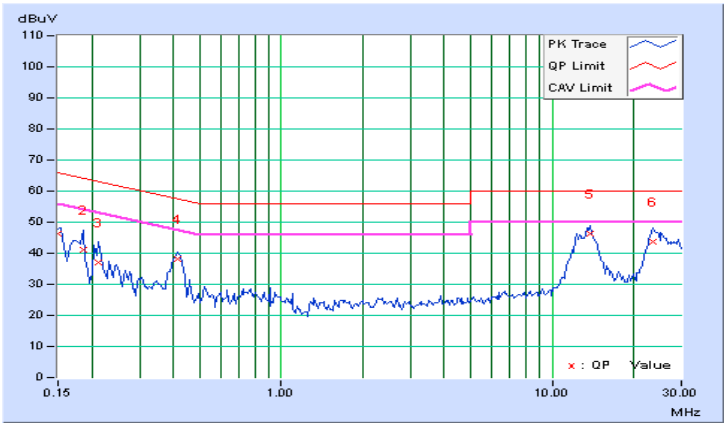


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.09	26.66	46.22	36.79	66.00	56.00	-19.78	-19.21
2	0.18516	10.15	31.06	19.24	41.21	29.39	64.25	54.25	-23.04	-24.86
3	0.21250	10.16	26.89	17.91	37.05	28.07	63.11	53.11	-26.06	-25.04
4	0.41563	10.19	27.80	20.15	37.99	30.34	57.54	47.54	-19.55	-17.20
5	13.80078	10.63	35.55	30.08	46.18	40.71	60.00	50.00	-13.82	-9.29
6	23.59375	10.70	32.86	27.46	43.56	38.16	60.00	50.00	-16.44	-11.84

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.



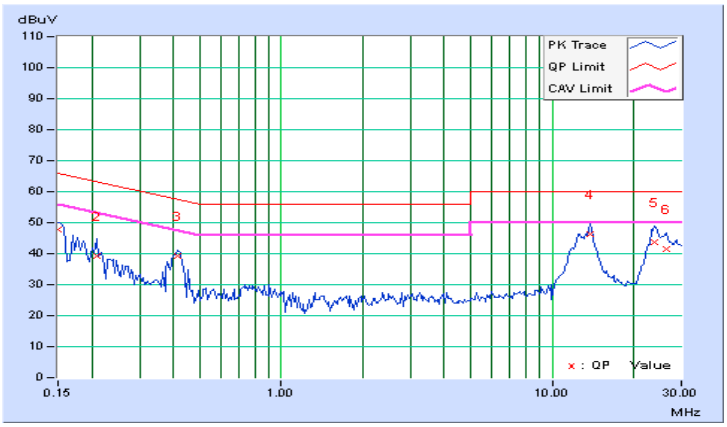
Test Mode C

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	10.12	37.48	28.12	47.60	38.24	66.00	56.00	-18.40	-17.76
2	0.20859	10.16	29.11	18.78	39.27	28.94	63.26	53.26	-23.99	-24.32
3	0.41563	10.19	28.91	21.05	39.10	31.24	57.54	47.54	-18.44	-16.30
4	13.79688	10.52	35.71	30.24	46.23	40.76	60.00	50.00	-13.77	-9.24
5	23.88672	10.53	33.04	27.68	43.57	38.21	60.00	50.00	-16.43	-11.79
6	26.31250	10.48	30.90	25.63	41.38	36.11	60.00	50.00	-18.62	-13.89

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.

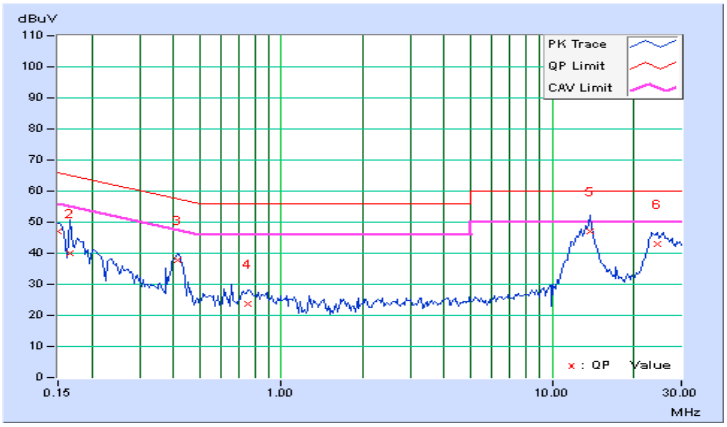


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	37.04	27.35	47.17	37.48	66.00	56.00	-18.83	-18.52
2	0.16562	10.14	29.69	9.31	39.83	19.45	65.18	55.18	-25.35	-35.73
3	0.41563	10.19	27.54	19.52	37.73	29.71	57.54	47.54	-19.81	-17.83
4	0.75547	10.20	13.50	6.37	23.70	16.57	56.00	46.00	-32.30	-29.43
5	13.83594	10.63	36.40	30.72	47.03	41.35	60.00	50.00	-12.97	-8.65
6	24.60547	10.67	32.26	27.13	42.93	37.80	60.00	50.00	-17.07	-12.20

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.



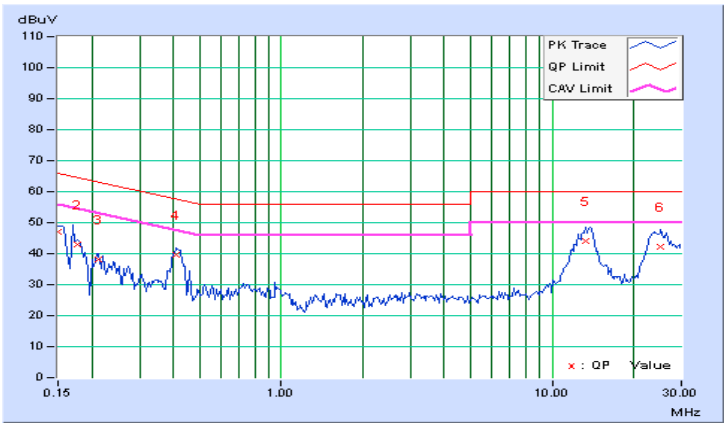
Test Mode D

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	10.12	36.84	27.70	46.96	37.82	66.00	56.00	-19.04	-18.18
2	0.17589	10.14	33.00	21.49	43.14	31.63	64.68	54.68	-21.54	-23.05
3	0.21250	10.16	27.96	19.26	38.12	29.42	63.11	53.11	-24.99	-23.69
4	0.41172	10.19	29.43	21.37	39.62	31.56	57.61	47.61	-17.99	-16.05
5	13.35156	10.52	33.44	27.96	43.96	38.48	60.00	50.00	-16.04	-11.52
6	25.11328	10.51	31.78	26.55	42.29	37.06	60.00	50.00	-17.71	-12.94

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.

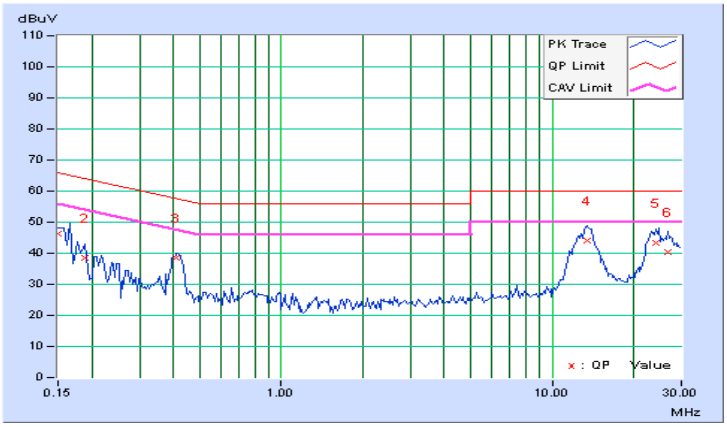


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.26	26.72	46.39	36.85	66.00	56.00	-19.61	-19.15
2	0.18906	10.15	28.44	13.63	38.59	23.78	64.08	54.08	-25.49	-30.30
3	0.41172	10.19	28.37	19.63	38.56	29.82	57.61	47.61	-19.05	-17.79
4	13.41016	10.62	33.32	27.86	43.94	38.48	60.00	50.00	-16.06	-11.52
5	24.15625	10.68	32.54	27.21	43.22	37.89	60.00	50.00	-16.78	-12.11
6	26.67578	10.62	29.91	24.83	40.53	35.45	60.00	50.00	-19.47	-14.55

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.



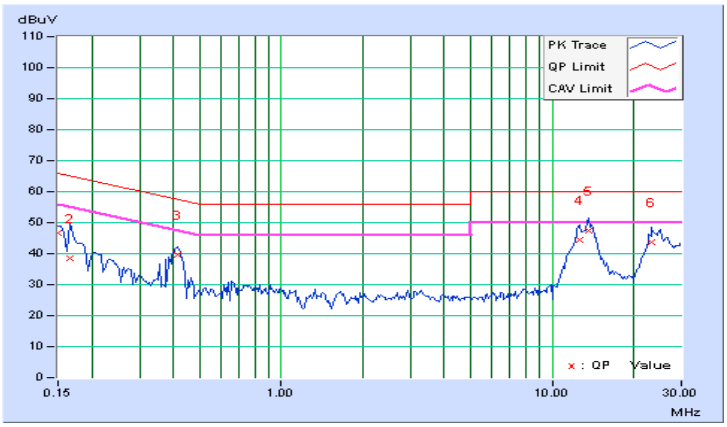
Test Mode E

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	10.12	36.62	27.68	46.74	37.80	66.00	56.00	-19.26	-18.20
2	0.16562	10.13	28.49	9.33	38.62	19.46	65.18	55.18	-26.56	-35.72
3	0.41563	10.19	29.47	21.57	39.66	31.76	57.54	47.54	-17.88	-15.78
4	12.61328	10.51	33.76	28.44	44.27	38.95	60.00	50.00	-15.73	-11.05
5	13.64844	10.52	36.85	31.30	47.37	41.82	60.00	50.00	-12.63	-8.18
6	23.32813	10.55	33.02	27.62	43.57	38.17	60.00	50.00	-16.43	-11.83

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.

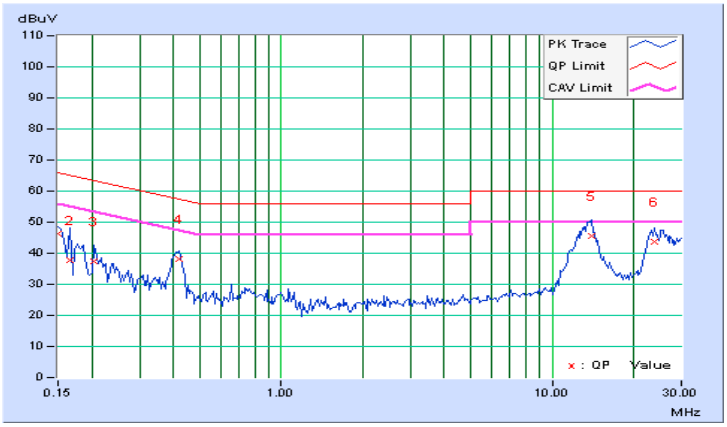


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.21	26.70	46.34	36.83	66.00	56.00	-19.66	-19.17
2	0.16562	10.14	27.58	8.85	37.72	18.99	65.18	55.18	-27.46	-36.19
3	0.20469	10.16	27.15	15.70	37.31	25.86	63.42	53.42	-26.11	-27.56
4	0.41953	10.19	27.80	20.48	37.99	30.67	57.46	47.46	-19.47	-16.79
5	14.02344	10.63	34.98	29.61	45.61	40.24	60.00	50.00	-14.39	-9.76
6	23.81250	10.69	33.04	27.66	43.73	38.35	60.00	50.00	-16.27	-11.65

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.



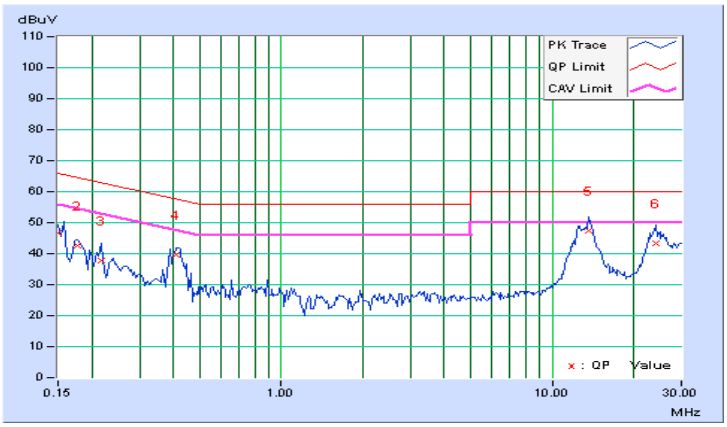
Test Mode F

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	10.12	36.66	27.60	46.78	37.72	66.00	56.00	-19.22	-18.28
2	0.17734	10.14	32.50	22.05	42.64	32.19	64.61	54.61	-21.97	-22.42
3	0.21641	10.16	27.67	16.62	37.83	26.78	62.96	52.96	-25.13	-26.18
4	0.41172	10.19	29.51	21.49	39.70	31.68	57.61	47.61	-17.91	-15.93
5	**13.71484**	**10.52**	**37.05**	**31.44**	**47.57**	**41.96**	**60.00**	**50.00**	**-12.43**	**-8.04**
6	24.08984	10.53	32.98	27.44	43.51	37.97	60.00	50.00	-16.49	-12.03

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.

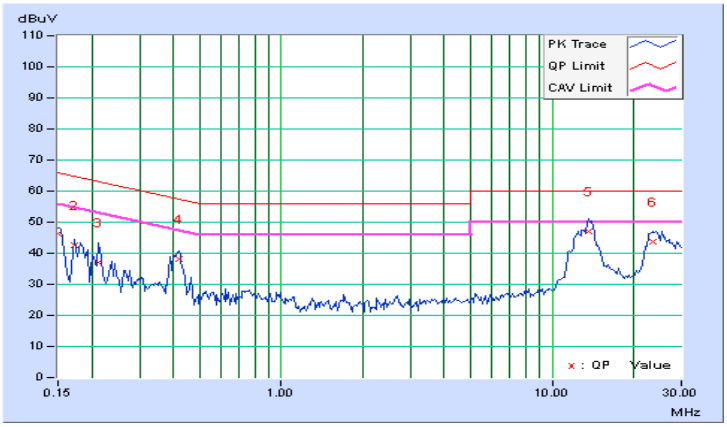


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.09	26.91	46.22	37.04	66.00	56.00	-19.78	-18.96
2	0.17344	10.14	32.41	18.09	42.55	28.23	64.79	54.79	-22.24	-26.56
3	0.21250	10.16	26.93	17.83	37.09	27.99	63.11	53.11	-26.02	-25.12
4	0.41953	10.19	27.94	20.19	38.13	30.38	57.46	47.46	-19.33	-17.08
5	13.59766	10.62	36.44	30.92	47.06	41.54	60.00	50.00	-12.94	-8.46
6	23.63281	10.70	33.12	27.80	43.82	38.50	60.00	50.00	-16.18	-11.50

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

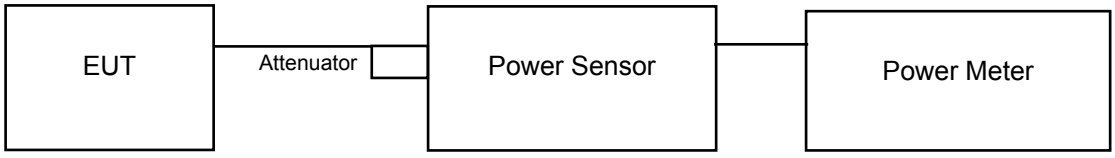
Operation Band	EUT Category		LIMIT
U-NII-1	-	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	-	Fixed point-to-point Access Point	1 Watt (30 dBm)
	-	Indoor Access Point	1 Watt (30 dBm)
	-	Mobile and Portable client 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

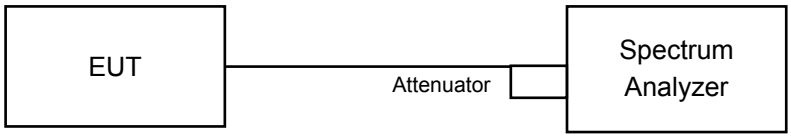
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

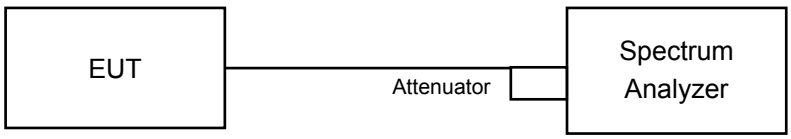
For Power Output Measurement
802.11a, 802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For 26dB Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 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) Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
8) Detector = RMS.
9) Trace mode = max hold.
10) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

For 26dB Bandwidth
1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

Test Mode A, CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.16	16.54	97.082	19.87	22.83	Pass
60	5300	17.23	16.33	95.799	19.81	22.83	Pass
64	5320	17.14	16.27	94.125	19.74	22.83	Pass
100	5500	17.33	16.84	102.381	20.10	22.83	Pass
116	5580	16.73	16.42	90.951	19.59	22.83	Pass
140	5700	15.59	14.86	66.844	18.25	22.83	Pass

Note: Gain = 7dBi > 6dBi, so the limit shall be reduced to 23.83-(7-6) = 22.83dBm.

Chain 0

1. 11dBm + 10log (19.52) = 23.90 < 24dBm
2. 11dBm + 10log (19.43) = 23.88 < 24dBm
3. 11dBm + 10log (19.52) = 23.90 < 24dBm
4. 11dBm + 10log (19.55) = 23.91 < 24dBm
5. 11dBm + 10log (19.51) = 23.90 < 24dBm
6. 11dBm + 10log (19.48) = 23.90 < 24dBm

Chain 1

1. 11dBm + 10log (19.34) = 23.86 < 24dBm
2. 11dBm + 10log (19.39) = 23.88 < 24dBm
3. 11dBm + 10log (19.40) = 23.88 < 24dBm
4. 11dBm + 10log (19.37) = 23.87 < 24dBm
5. 11dBm + 10log (19.38) = 23.87 < 24dBm
6. 11dBm + 10log (19.17) = 23.83 < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.14	16.23	93.737	19.72	23	Pass
60	5300	17.23	16.06	93.210	19.69	23	Pass
64	5320	17.46	16.23	97.695	19.90	23	Pass
100	5500	17.37	16.14	95.691	19.81	23	Pass
116	5580	16.62	16.53	90.898	19.59	23	Pass
140	5700	15.57	14.86	66.678	18.24	23	Pass

Note: Gain = 7dBi > 6dBi, so the limit shall be reduced to 24-(7-6) = 23dBm.

Chain 0

1. 11dBm + 10log (20.38) = 24.09 > 24dBm
2. 11dBm + 10log (20.39) = 24.09 > 24dBm
3. 11dBm + 10log (20.38) = 24.09 > 24dBm
4. 11dBm + 10log (20.30) = 24.07 > 24dBm
5. 11dBm + 10log (20.29) = 24.07 > 24dBm
6. 11dBm + 10log (20.48) = 24.11 > 24dBm

Chain 1

1. 11dBm + 10log (20.31) = 24.08 > 24dBm
2. 11dBm + 10log (20.43) = 24.10 > 24dBm
3. 11dBm + 10log (20.42) = 24.10 > 24dBm
4. 11dBm + 10log (20.43) = 24.10 > 24dBm
5. 11dBm + 10log (20.40) = 24.10 > 24dBm
6. 11dBm + 10log (20.28) = 24.07 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	20.14	18.40	**172.459**	22.37	23	Pass
62	5310	14.60	14.01	54.017	17.33	23	Pass
102	5510	15.99	15.81	77.826	18.91	23	Pass
110	5550	19.60	19.50	**180.326**	22.56	23	Pass
134	5670	18.38	17.61	126.542	21.02	23	Pass

Note: Gain = 7dBi > 6dBi, so the limit shall be reduced to 24-(7-6) = 23dBm.
Chain 0
1. 11dBm + 10log (40.81) = 27.11 > 24dBm
2. 11dBm + 10log (40.69) = 27.09 > 24dBm
3. 11dBm + 10log (40.68) = 27.09 > 24dBm
4. 11dBm + 10log (41.05) = 27.13 > 24dBm
5. 11dBm + 10log (40.74) = 27.10 > 24dBm

Chain 1
1. 11dBm + 10log (40.94) = 27.12 > 24dBm
2. 11dBm + 10log (40.80) = 27.11 > 24dBm
3. 11dBm + 10log (40.60) = 27.09 > 24dBm
4. 11dBm + 10log (41.01) = 27.13 > 24dBm
5. 11dBm + 10log (40.83) = 27.11 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	13.03	11.63	34.646	15.40	23	Pass
106	5530	14.93	14.56	59.693	17.76	23	Pass

Note: Gain = 7dBi > 6dBi, so the limit shall be reduced to 24-(7-6) = 23dBm.
Chain 0
1. 11dBm + 10log (83.92) = 30.24 > 24dBm
2. 11dBm + 10log (83.98) = 30.24 > 24dBm

Chain 1
1. 11dBm + 10log (83.98) = 30.24 > 24dBm
2. 11dBm + 10log (83.31) = 30.21 > 24dBm

Test Mode A, Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	14.13	13.22	46.871	16.71	19.99	Pass
60	5300	14.22	13.05	46.608	16.68	19.99	Pass
64	5320	14.45	13.22	48.850	16.89	19.99	Pass
100	5500	14.36	13.13	47.849	16.80	19.99	Pass
116	5580	13.61	13.52	45.452	16.58	19.99	Pass
140	5700	12.56	11.85	33.341	15.23	19.99	Pass

Note: Gain = 7dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(10.01-6) = 19.99dBm.

Chain 0

1. 11dBm + 10log (20.38) = 24.09 > 24dBm
2. 11dBm + 10log (20.39) = 24.09 > 24dBm
3. 11dBm + 10log (20.38) = 24.09 > 24dBm
4. 11dBm + 10log (20.30) = 24.07 > 24dBm
5. 11dBm + 10log (20.29) = 24.07 > 24dBm
6. 11dBm + 10log (20.48) = 24.11 > 24dBm

Chain 1

1. 11dBm + 10log (20.31) = 24.08 > 24dBm
2. 11dBm + 10log (20.43) = 24.10 > 24dBm
3. 11dBm + 10log (20.42) = 24.10 > 24dBm
4. 11dBm + 10log (20.43) = 24.10 > 24dBm
5. 11dBm + 10log (20.40) = 24.10 > 24dBm
6. 11dBm + 10log (20.28) = 24.07 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	17.13	15.39	**86.236**	19.36	19.99	Pass
62	5310	11.59	11.00	27.010	14.32	19.99	Pass
102	5510	12.98	12.80	38.916	15.90	19.99	Pass
110	5550	16.59	16.49	**90.170**	19.55	19.99	Pass
134	5670	15.37	14.60	63.275	18.01	19.99	Pass

Note: Gain = 7dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(10.01-6) = 19.99dBm.
Chain 0
1. 11dBm + 10log (40.81) = 27.11 > 24dBm
2. 11dBm + 10log (40.69) = 27.09 > 24dBm
3. 11dBm + 10log (40.68) = 27.09 > 24dBm
4. 11dBm + 10log (41.05) = 27.13 > 24dBm
5. 11dBm + 10log (40.74) = 27.10 > 24dBm

Chain 1
1. 11dBm + 10log (40.94) = 27.12 > 24dBm
2. 11dBm + 10log (40.80) = 27.11 > 24dBm
3. 11dBm + 10log (40.60) = 27.09 > 24dBm
4. 11dBm + 10log (41.01) = 27.13 > 24dBm
5. 11dBm + 10log (40.83) = 27.11 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	10.02	8.62	17.324	12.39	19.99	Pass
106	5530	11.92	11.55	29.849	14.75	19.99	Pass

Note: Gain = 7dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(10.01-6) = 19.99dBm.
Chain 0
1. 11dBm + 10log (83.92) = 30.24 > 24dBm
2. 11dBm + 10log (83.98) = 30.24 > 24dBm

Chain 1
1. 11dBm + 10log (83.98) = 30.24 > 24dBm
2. 11dBm + 10log (83.31) = 30.21 > 24dBm

Test Mode B, CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	10.94	9.70	21.750	13.37	16.84	Pass
60	5300	11.20	9.40	21.893	13.40	16.84	Pass
64	5320	11.10	9.80	22.432	13.51	16.84	Pass
100	5500	10.90	10.10	22.536	13.53	16.84	Pass
116	5580	11.20	11.20	26.366	14.21	16.84	Pass
140	5700	11.30	9.80	23.040	13.62	16.84	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 23.84-(13-6) = 16.84dBm.

Chain 0

1. 11dBm + 10log (19.59) = 23.92 < 24dBm
2. 11dBm + 10log (19.47) = 23.89 < 24dBm
3. 11dBm + 10log (19.51) = 23.90 < 24dBm
4. 11dBm + 10log (19.54) = 23.91 < 24dBm
5. 11dBm + 10log (19.50) = 23.90 < 24dBm
6. 11dBm + 10log (19.49) = 23.90 < 24dBm

Chain 1

1. 11dBm + 10log (19.32) = 23.86 < 24dBm
2. 11dBm + 10log (19.32) = 23.86 < 24dBm
3. 11dBm + 10log (19.33) = 23.86 < 24dBm
4. 11dBm + 10log (19.31) = 23.86 < 24dBm
5. 11dBm + 10log (19.32) = 23.86 < 24dBm
6. 11dBm + 10log (19.23) = 23.84 < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.30	10.24	24.058	13.81	17	Pass
60	5300	11.40	10.14	24.132	13.83	17	Pass
64	5320	11.32	9.87	23.257	13.67	17	Pass
100	5500	11.46	10.46	25.113	14.00	17	Pass
116	5580	11.13	10.97	25.475	14.06	17	Pass
140	5700	10.74	10.34	22.672	13.55	17	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 24-(13-6) = 17dBm.

Chain 0

1. 11dBm + 10log (20.30) = 24.07 > 24dBm
2. 11dBm + 10log (20.42) = 24.10 > 24dBm
3. 11dBm + 10log (20.45) = 24.11 > 24dBm
4. 11dBm + 10log (20.38) = 24.09 > 24dBm
5. 11dBm + 10log (20.28) = 24.07 > 24dBm
6. 11dBm + 10log (20.30) = 24.07 > 24dBm

Chain 1

1. 11dBm + 10log (20.40) = 24.10 > 24dBm
2. 11dBm + 10log (20.39) = 24.09 > 24dBm
3. 11dBm + 10log (20.33) = 24.08 > 24dBm
4. 11dBm + 10log (20.37) = 24.09 > 24dBm
5. 11dBm + 10log (20.35) = 24.09 > 24dBm
6. 11dBm + 10log (20.22) = 24.06 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	14.12	12.53	**43.729**	16.41	17	Pass
62	5310	13.76	12.53	41.674	16.20	17	Pass
102	5510	14.04	13.57	**48.102**	16.82	17	Pass
110	5550	13.96	13.49	47.225	16.74	17	Pass
134	5670	13.84	13.25	45.345	16.57	17	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 24-(13-6) = 17dBm.
Chain 0
1. 11dBm + 10log (40.61) = 27.09 > 24dBm
2. 11dBm + 10log (40.63) = 27.09 > 24dBm
3. 11dBm + 10log (40.71) = 27.10 > 24dBm
4. 11dBm + 10log (40.60) = 27.09 > 24dBm
5. 11dBm + 10log (40.72) = 27.10 > 24dBm

Chain 1
1. 11dBm + 10log (40.69) = 27.09 > 24dBm
2. 11dBm + 10log (40.79) = 27.11 > 24dBm
3. 11dBm + 10log (40.80) = 27.11 > 24dBm
4. 11dBm + 10log (40.66) = 27.09 > 24dBm
5. 11dBm + 10log (40.92) = 27.12 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	10.87	9.85	21.879	13.40	17	Pass
106	5530	13.65	13.02	43.219	16.36	17	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 24-(13-6) = 17dBm.
Chain 0
1. 11dBm + 10log (83.88) = 30.24 > 24dBm
2. 11dBm + 10log (83.98) = 30.24 > 24dBm

Chain 1
1. 11dBm + 10log (83.69) = 30.23 > 24dBm
2. 11dBm + 10log (83.53) = 30.22 > 24dBm

Test Mode B, Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	8.29	7.23	12.029	10.80	13.99	Pass
60	5300	8.39	7.13	12.066	10.82	13.99	Pass
64	5320	8.31	6.86	11.629	10.66	13.99	Pass
100	5500	8.45	7.45	12.557	10.99	13.99	Pass
116	5580	8.12	7.96	12.738	11.05	13.99	Pass
140	5700	7.73	7.33	11.337	10.54	13.99	Pass

Note: Gain = 13dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(16.01-6) = 13.99dBm.
Chain 0
1. 11dBm + 10log (20.30) = 24.07 > 24dBm
2. 11dBm + 10log (20.42) = 24.10 > 24dBm
3. 11dBm + 10log (20.45) = 24.11 > 24dBm
4. 11dBm + 10log (20.38) = 24.09 > 24dBm
5. 11dBm + 10log (20.28) = 24.07 > 24dBm
6. 11dBm + 10log (20.30) = 24.07 > 24dBm

Chain 1
1. 11dBm + 10log (20.40) = 24.10 > 24dBm
2. 11dBm + 10log (20.39) = 24.09 > 24dBm
3. 11dBm + 10log (20.33) = 24.08 > 24dBm
4. 11dBm + 10log (20.37) = 24.09 > 24dBm
5. 11dBm + 10log (20.35) = 24.09 > 24dBm
6. 11dBm + 10log (20.22) = 24.06 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	11.11	9.52	**21.866**	13.40	13.99	Pass
62	5310	10.75	9.52	20.839	13.19	13.99	Pass
102	5510	11.03	10.56	**24.053**	13.81	13.99	Pass
110	5550	10.95	10.48	23.614	13.73	13.99	Pass
134	5670	10.83	10.24	22.674	13.56	13.99	Pass

Note: Gain = 13dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(16.01-6) = 13.99dBm.
Chain 0
1. 11dBm + 10log (40.61) = 27.09 > 24dBm
2. 11dBm + 10log (40.63) = 27.09 > 24dBm
3. 11dBm + 10log (40.71) = 27.10 > 24dBm
4. 11dBm + 10log (40.60) = 27.09 > 24dBm
5. 11dBm + 10log (40.72) = 27.10 > 24dBm

Chain 1
1. 11dBm + 10log (40.69) = 27.09 > 24dBm
2. 11dBm + 10log (40.79) = 27.11 > 24dBm
3. 11dBm + 10log (40.80) = 27.11 > 24dBm
4. 11dBm + 10log (40.66) = 27.09 > 24dBm
5. 11dBm + 10log (40.92) = 27.12 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	7.86	6.84	10.940	10.39	13.99	Pass
106	5530	10.64	10.01	21.611	13.35	13.99	Pass

Note: Gain = 13dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(16.01-6) = 13.99dBm.
Chain 0
1. 11dBm + 10log (83.88) = 30.24 > 24dBm
2. 11dBm + 10log (83.98) = 30.24 > 24dBm

Chain 1
1. 11dBm + 10log (83.69) = 30.23 > 24dBm
2. 11dBm + 10log (83.53) = 30.22 > 24dBm

Test Mode C, CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	16.91	16.23	91.067	19.59	22.74	Pass
60	5300	16.89	16.06	89.230	19.51	22.74	Pass
64	5320	16.93	16.26	91.584	19.62	22.74	Pass
100	5500	16.99	16.53	94.981	19.78	22.74	Pass
116	5580	17.10	16.37	94.637	19.76	22.74	Pass
140	5700	16.86	15.73	85.940	19.34	22.74	Pass

Note: Gain = 7.1dBi > 6dBi, so the limit shall be reduced to 23.84-(7.1-6) = 22.74dBm.

Chain 0

1. 11dBm + 10log (19.49) = 23.90 < 24dBm
2. 11dBm + 10log (19.69) = 23.94 < 24dBm
3. 11dBm + 10log (19.56) = 23.91 < 24dBm
4. 11dBm + 10log (19.61) = 23.92 < 24dBm
5. 11dBm + 10log (19.68) = 23.94 < 24dBm
6. 11dBm + 10log (19.64) = 23.93 < 24dBm

Chain 1

1. 11dBm + 10log (19.33) = 23.86 < 24dBm
2. 11dBm + 10log (19.32) = 23.86 < 24dBm
3. 11dBm + 10log (19.48) = 23.90 < 24dBm
4. 11dBm + 10log (19.53) = 23.91 < 24dBm
5. 11dBm + 10log (19.22) = 23.84 < 24dBm
6. 11dBm + 10log (19.31) = 23.86 < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.16	16.99	102.003	20.09	22.9	Pass
60	5300	16.93	16.91	98.408	19.93	22.9	Pass
64	5320	17.43	17.43	110.670	20.44	22.9	Pass
100	5500	17.46	17.55	112.604	20.52	22.9	Pass
116	5580	17.03	17.16	102.466	20.11	22.9	Pass
140	5700	16.46	14.53	72.638	18.61	22.9	Pass

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

Chain 0

1. 11dBm + 10log (20.77) = 24.17 > 24dBm
2. 11dBm + 10log (20.67) = 24.15 > 24dBm
3. 11dBm + 10log (20.68) = 24.16 > 24dBm
4. 11dBm + 10log (20.53) = 24.12 > 24dBm
5. 11dBm + 10log (20.51) = 24.12 > 24dBm
6. 11dBm + 10log (20.56) = 24.13 > 24dBm

Chain 1

1. 11dBm + 10log (20.48) = 24.11 > 24dBm
2. 11dBm + 10log (20.51) = 24.12 > 24dBm
3. 11dBm + 10log (20.39) = 24.09 > 24dBm
4. 11dBm + 10log (20.50) = 24.12 > 24dBm
5. 11dBm + 10log (20.41) = 24.10 > 24dBm
6. 11dBm + 10log (20.55) = 24.13 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	19.89	19.11	**178.969**	22.53	22.9	Pass
62	5310	18.52	17.77	130.962	21.17	22.9	Pass
102	5510	18.04	17.65	121.890	20.86	22.9	Pass
110	5550	19.88	19.44	**185.177**	22.68	22.9	Pass
134	5670	19.91	18.71	172.251	22.36	22.9	Pass

Note: Gain = 7.1dBi > 6dBi, so the limit shall be reduced to 24-(7.1-6) = 22.9dBm.
Chain 0
1. 11dBm + 10log (40.72) = 27.10 > 24dBm
2. 11dBm + 10log (40.87) = 27.11 > 24dBm
3. 11dBm + 10log (40.69) = 27.09 > 24dBm
4. 11dBm + 10log (40.77) = 27.10 > 24dBm
5. 11dBm + 10log (40.91) = 27.12 > 24dBm

Chain 1
1. 11dBm + 10log (40.78) = 27.10 > 24dBm
2. 11dBm + 10log (40.67) = 27.09 > 24dBm
3. 11dBm + 10log (40.44) = 27.07 > 24dBm
4. 11dBm + 10log (40.23) = 27.05 > 24dBm
5. 11dBm + 10log (40.58) = 27.08 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	15.52	14.59	64.419	18.09	22.9	Pass
106	5530	16.64	16.07	86.590	19.37	22.9	Pass

Note: Gain = 7.1dBi > 6dBi, so the limit shall be reduced to 24-(7.1-6) = 22.9dBm.
Chain 0
1. 11dBm + 10log (84.26) = 30.26 > 24dBm
2. 11dBm + 10log (84.21) = 30.25 > 24dBm

Chain 1
1. 11dBm + 10log (82.89) = 30.19 > 24dBm
2. 11dBm + 10log (83.31) = 30.21 > 24dBm

Test Mode C, Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	14.15	13.98	51.005	17.08	19.89	Pass
60	5300	13.92	13.90	49.207	16.92	19.89	Pass
64	5320	14.42	14.42	55.338	17.43	19.89	Pass
100	5500	14.45	14.54	56.306	17.51	19.89	Pass
116	5580	14.02	14.15	51.237	17.10	19.89	Pass
140	5700	13.45	11.52	36.322	15.60	19.89	Pass

Note: Gain = 7.1dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(10.11-6) = 19.89dBm.
Chain 0
1. 11dBm + 10log (20.77) = 24.17 > 24dBm
2. 11dBm + 10log (20.67) = 24.15 > 24dBm
3. 11dBm + 10log (20.68) = 24.16 > 24dBm
4. 11dBm + 10log (20.53) = 24.12 > 24dBm
5. 11dBm + 10log (20.51) = 24.12 > 24dBm
6. 11dBm + 10log (20.56) = 24.13 > 24dBm

Chain 1
1. 11dBm + 10log (20.48) = 24.11 > 24dBm
2. 11dBm + 10log (20.51) = 24.12 > 24dBm
3. 11dBm + 10log (20.39) = 24.09 > 24dBm
4. 11dBm + 10log (20.50) = 24.12 > 24dBm
5. 11dBm + 10log (20.41) = 24.10 > 24dBm
6. 11dBm + 10log (20.55) = 24.13 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	16.88	16.10	**89.491**	19.52	19.89	Pass
62	5310	15.51	14.76	65.486	18.16	19.89	Pass
102	5510	15.03	14.64	60.949	17.85	19.89	Pass
110	5550	16.87	16.43	**92.595**	19.67	19.89	Pass
134	5670	16.90	15.70	86.132	19.35	19.89	Pass

Note: Gain = 7.1dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(10.11-6) = 19.89dBm.
Chain 0
1. 11dBm + 10log (40.72) = 27.10 > 24dBm
2. 11dBm + 10log (40.87) = 27.11 > 24dBm
3. 11dBm + 10log (40.69) = 27.09 > 24dBm
4. 11dBm + 10log (40.77) = 27.10 > 24dBm
5. 11dBm + 10log (40.91) = 27.12 > 24dBm

Chain 1
1. 11dBm + 10log (40.78) = 27.10 > 24dBm
2. 11dBm + 10log (40.67) = 27.09 > 24dBm
3. 11dBm + 10log (40.44) = 27.07 > 24dBm
4. 11dBm + 10log (40.23) = 27.05 > 24dBm
5. 11dBm + 10log (40.58) = 27.08 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	12.51	11.58	32.212	15.08	19.89	Pass
106	5530	13.63	13.06	43.297	16.36	19.89	Pass

Note: Gain = 7.1dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(10.11-6) = 19.89dBm.
Chain 0
1. 11dBm + 10log (84.26) = 30.26 > 24dBm
2. 11dBm + 10log (84.21) = 30.25 > 24dBm

Chain 1
1. 11dBm + 10log (82.89) = 30.19 > 24dBm
2. 11dBm + 10log (83.31) = 30.21 > 24dBm

Test Mode D, CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	12.13	11.78	31.397	14.97	18.54	Pass
60	5300	11.64	10.73	26.418	14.22	18.54	Pass
64	5320	11.67	10.77	26.629	14.25	18.54	Pass
100	5500	11.96	11.23	28.978	14.62	18.54	Pass
116	5580	11.78	11.24	28.371	14.53	18.54	Pass
140	5700	12.03	11.37	29.668	14.72	18.54	Pass

Note: Gain = 11.3dBi > 6dBi, so the limit shall be reduced to 23.84-(11.3-6) = 18.54dBm.

Chain 0

1. 11dBm + 10log (19.50) = 23.90 < 24dBm
2. 11dBm + 10log (19.57) = 23.92 < 24dBm
3. 11dBm + 10log (19.46) = 23.89 < 24dBm
4. 11dBm + 10log (19.31) = 23.86 < 24dBm
5. 11dBm + 10log (19.57) = 23.92 < 24dBm
6. 11dBm + 10log (19.71) = 23.95 < 24dBm

Chain 1

1. 11dBm + 10log (19.29) = 23.85 < 24dBm
2. 11dBm + 10log (19.22) = 23.84 < 24dBm
3. 11dBm + 10log (19.22) = 23.84 < 24dBm
4. 11dBm + 10log (19.42) = 23.88 < 24dBm
5. 11dBm + 10log (19.31) = 23.86 < 24dBm
6. 11dBm + 10log (19.23) = 23.84 < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	12.16	11.89	31.897	15.04	18.7	Pass
60	5300	12.53	11.48	31.966	15.05	18.7	Pass
64	5320	12.38	11.37	31.007	14.91	18.7	Pass
100	5500	12.45	11.78	32.645	15.14	18.7	Pass
116	5580	12.73	12.24	35.499	15.50	18.7	Pass
140	5700	12.17	11.21	29.695	14.73	18.7	Pass

Note: Gain = 11.3dBi > 6dBi, so the limit shall be reduced to 24-(11.3-6) = 18.7dBm.

Chain 0

1. 11dBm + 10log (20.41) = 24.10 > 24dBm
2. 11dBm + 10log (20.44) = 24.10 > 24dBm
3. 11dBm + 10log (20.59) = 24.14 > 24dBm
4. 11dBm + 10log (20.51) = 24.12 > 24dBm
5. 11dBm + 10log (20.38) = 24.09 > 24dBm
6. 11dBm + 10log (20.46) = 24.11 > 24dBm

Chain 1

1. 11dBm + 10log (20.44) = 24.10 > 24dBm
2. 11dBm + 10log (20.48) = 24.11 > 24dBm
3. 11dBm + 10log (20.35) = 24.09 > 24dBm
4. 11dBm + 10log (20.53) = 24.12 > 24dBm
5. 11dBm + 10log (20.44) = 24.10 > 24dBm
6. 11dBm + 10log (20.45) = 24.11 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	15.11	14.38	**59.850**	17.77	18.7	Pass
62	5310	15.26	14.03	58.867	17.70	18.7	Pass
102	5510	15.24	14.62	62.393	17.95	18.7	Pass
110	5550	15.57	15.00	67.681	18.30	18.7	Pass
134	5670	15.63	14.81	66.828	18.25	18.7	Pass

Note: Gain = 11.3dBi > 6dBi, so the limit shall be reduced to 24-(11.3-6) = 18.7dBm.
Chain 0
1. 11dBm + 10log (40.76) = 27.10 > 24dBm
2. 11dBm + 10log (40.69) = 27.09 > 24dBm
3. 11dBm + 10log (40.68) = 27.09 > 24dBm
4. 11dBm + 10log (40.87) = 27.11 > 24dBm
5. 11dBm + 10log (40.81) = 27.11 > 24dBm

Chain 1
1. 11dBm + 10log (40.62) = 27.09 > 24dBm
2. 11dBm + 10log (40.41) = 27.06 > 24dBm
3. 11dBm + 10log (40.41) = 27.06 > 24dBm
4. 11dBm + 10log (40.48) = 27.07 > 24dBm
5. 11dBm + 10log (40.48) = 27.07 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	13.82	12.99	44.006	16.44	18.7	Pass
106	5530	14.59	15.98	**68.402**	18.35	18.7	Pass

Note: Gain = 11.3dBi > 6dBi, so the limit shall be reduced to 24-(11.3-6) = 18.7dBm.
Chain 0
1. 11dBm + 10log (83.78) = 30.23 > 24dBm
2. 11dBm + 10log (84.09) = 30.25 > 24dBm

Chain 1
1. 11dBm + 10log (83.78) = 30.23 > 24dBm
2. 11dBm + 10log (83.39) = 30.21 > 24dBm

Test Mode D, Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	9.15	8.88	15.949	12.03	15.69	Pass
60	5300	9.52	8.47	15.985	12.04	15.69	Pass
64	5320	9.37	8.36	15.505	11.90	15.69	Pass
100	5500	9.44	8.77	16.324	12.13	15.69	Pass
116	5580	9.72	9.23	17.751	12.49	15.69	Pass
140	5700	9.16	8.20	14.848	11.72	15.69	Pass

Note: Gain = 11.3dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(14.31-6) = 15.69dBm.

Chain 0

1. 11dBm + 10log (20.41) = 24.10 > 24dBm
2. 11dBm + 10log (20.44) = 24.10 > 24dBm
3. 11dBm + 10log (20.59) = 24.14 > 24dBm
4. 11dBm + 10log (20.51) = 24.12 > 24dBm
5. 11dBm + 10log (20.38) = 24.09 > 24dBm
6. 11dBm + 10log (20.46) = 24.11 > 24dBm

Chain 1

1. 11dBm + 10log (20.44) = 24.10 > 24dBm
2. 11dBm + 10log (20.48) = 24.11 > 24dBm
3. 11dBm + 10log (20.35) = 24.09 > 24dBm
4. 11dBm + 10log (20.53) = 24.12 > 24dBm
5. 11dBm + 10log (20.44) = 24.10 > 24dBm
6. 11dBm + 10log (20.45) = 24.11 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	12.10	11.37	**29.927**	14.76	15.69	Pass
62	5310	12.25	11.02	29.435	14.69	15.69	Pass
102	5510	12.23	11.61	31.199	14.94	15.69	Pass
110	5550	12.56	11.99	33.842	15.29	15.69	Pass
134	5670	12.62	11.80	33.417	15.24	15.69	Pass

Note: Gain = 11.3dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(14.31-6) = 15.69dBm.
Chain 0
1. 11dBm + 10log (40.76) = 27.10 > 24dBm
2. 11dBm + 10log (40.69) = 27.09 > 24dBm
3. 11dBm + 10log (40.68) = 27.09 > 24dBm
4. 11dBm + 10log (40.87) = 27.11 > 24dBm
5. 11dBm + 10log (40.81) = 27.11 > 24dBm

Chain 1
1. 11dBm + 10log (40.62) = 27.09 > 24dBm
2. 11dBm + 10log (40.41) = 27.06 > 24dBm
3. 11dBm + 10log (40.41) = 27.06 > 24dBm
4. 11dBm + 10log (40.48) = 27.07 > 24dBm
5. 11dBm + 10log (40.48) = 27.07 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	10.81	9.98	22.004	13.43	15.69	Pass
106	5530	11.58	12.97	**34.203**	15.34	15.69	Pass

Note: Gain = 11.3dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(14.31-6) = 15.69dBm.
Chain 0
1. 11dBm + 10log (83.78) = 30.23 > 24dBm
2. 11dBm + 10log (84.09) = 30.25 > 24dBm

Chain 1
1. 11dBm + 10log (83.78) = 30.23 > 24dBm
2. 11dBm + 10log (83.39) = 30.21 > 24dBm

Test Mode E, CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	10.94	9.70	21.750	13.37	16.84	Pass
60	5300	11.20	9.40	21.893	13.40	16.84	Pass
64	5320	11.10	9.80	22.432	13.51	16.84	Pass
100	5500	10.90	10.10	22.536	13.53	16.84	Pass
116	5580	11.20	11.20	26.366	14.21	16.84	Pass
140	5700	11.30	9.80	23.040	13.62	16.84	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 23.84-(13-6) = 16.84dBm.

Chain 0

1. 11dBm + 10log (19.59) = 23.92 < 24dBm
2. 11dBm + 10log (19.47) = 23.89 < 24dBm
3. 11dBm + 10log (19.51) = 23.90 < 24dBm
4. 11dBm + 10log (19.54) = 23.91 < 24dBm
5. 11dBm + 10log (19.50) = 23.90 < 24dBm
6. 11dBm + 10log (19.49) = 23.90 < 24dBm

Chain 1

1. 11dBm + 10log (19.32) = 23.86 < 24dBm
2. 11dBm + 10log (19.32) = 23.86 < 24dBm
3. 11dBm + 10log (19.33) = 23.86 < 24dBm
4. 11dBm + 10log (19.31) = 23.86 < 24dBm
5. 11dBm + 10log (19.32) = 23.86 < 24dBm
6. 11dBm + 10log (19.23) = 23.84 < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.30	10.24	24.058	13.81	17	Pass
60	5300	11.40	10.14	24.132	13.83	17	Pass
64	5320	11.32	9.87	23.257	13.67	17	Pass
100	5500	11.46	10.46	25.113	14.00	17	Pass
116	5580	11.13	10.97	25.475	14.06	17	Pass
140	5700	10.74	10.34	22.672	13.55	17	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 24-(13-6) = 17dBm.

Chain 0

1. 11dBm + 10log (20.30) = 24.07 > 24dBm
2. 11dBm + 10log (20.42) = 24.10 > 24dBm
3. 11dBm + 10log (20.45) = 24.11 > 24dBm
4. 11dBm + 10log (20.38) = 24.09 > 24dBm
5. 11dBm + 10log (20.28) = 24.07 > 24dBm
6. 11dBm + 10log (20.30) = 24.07 > 24dBm

Chain 1

1. 11dBm + 10log (20.40) = 24.10 > 24dBm
2. 11dBm + 10log (20.39) = 24.09 > 24dBm
3. 11dBm + 10log (20.33) = 24.08 > 24dBm
4. 11dBm + 10log (20.37) = 24.09 > 24dBm
5. 11dBm + 10log (20.35) = 24.09 > 24dBm
6. 11dBm + 10log (20.22) = 24.06 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	14.12	12.53	**43.729**	16.41	17	Pass
62	5310	13.76	12.53	41.674	16.20	17	Pass
102	5510	14.04	13.57	**48.102**	16.82	17	Pass
110	5550	13.96	13.49	47.225	16.74	17	Pass
134	5670	13.84	13.25	45.345	16.57	17	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 24-(13-6) = 17dBm.
Chain 0
1. 11dBm + 10log (40.61) = 27.09 > 24dBm
2. 11dBm + 10log (40.63) = 27.09 > 24dBm
3. 11dBm + 10log (40.71) = 27.10 > 24dBm
4. 11dBm + 10log (40.60) = 27.09 > 24dBm
5. 11dBm + 10log (40.72) = 27.10 > 24dBm

Chain 1
1. 11dBm + 10log (40.69) = 27.09 > 24dBm
2. 11dBm + 10log (40.79) = 27.11 > 24dBm
3. 11dBm + 10log (40.80) = 27.11 > 24dBm
4. 11dBm + 10log (40.66) = 27.09 > 24dBm
5. 11dBm + 10log (40.92) = 27.12 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	12.85	11.83	34.516	15.38	17	Pass
106	5530	13.65	13.02	43.219	16.36	17	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 24-(13-6) = 17dBm.
Chain 0
1. 11dBm + 10log (84.08) = 30.25 > 24dBm
2. 11dBm + 10log (83.98) = 30.24 > 24dBm

Chain 1
1. 11dBm + 10log (83.78) = 30.23 > 24dBm
2. 11dBm + 10log (83.53) = 30.22 > 24dBm

Test Mode E, Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	8.29	7.23	12.029	10.80	13.99	Pass
60	5300	8.39	7.13	12.066	10.82	13.99	Pass
64	5320	8.31	6.86	11.629	10.66	13.99	Pass
100	5500	8.45	7.45	12.557	10.99	13.99	Pass
116	5580	8.12	7.96	12.738	11.05	13.99	Pass
140	5700	7.73	7.33	11.337	10.54	13.99	Pass

Note: Gain = 13dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(16.01-6) = 13.99dBm.
Chain 0
1. 11dBm + 10log (20.30) = 24.07 > 24dBm
2. 11dBm + 10log (20.42) = 24.10 > 24dBm
3. 11dBm + 10log (20.45) = 24.11 > 24dBm
4. 11dBm + 10log (20.38) = 24.09 > 24dBm
5. 11dBm + 10log (20.28) = 24.07 > 24dBm
6. 11dBm + 10log (20.30) = 24.07 > 24dBm

Chain 1
1. 11dBm + 10log (20.40) = 24.10 > 24dBm
2. 11dBm + 10log (20.39) = 24.09 > 24dBm
3. 11dBm + 10log (20.33) = 24.08 > 24dBm
4. 11dBm + 10log (20.37) = 24.09 > 24dBm
5. 11dBm + 10log (20.35) = 24.09 > 24dBm
6. 11dBm + 10log (20.22) = 24.06 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	11.11	9.52	**21.866**	13.40	13.99	Pass
62	5310	10.75	9.52	20.839	13.19	13.99	Pass
102	5510	11.03	10.56	**24.053**	13.81	13.99	Pass
110	5550	10.95	10.48	23.614	13.73	13.99	Pass
134	5670	10.83	10.24	22.674	13.56	13.99	Pass

Note: Gain = 13dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(16.01-6) = 13.99dBm.
Chain 0
1. 11dBm + 10log (40.61) = 27.09 > 24dBm
2. 11dBm + 10log (40.63) = 27.09 > 24dBm
3. 11dBm + 10log (40.71) = 27.10 > 24dBm
4. 11dBm + 10log (40.60) = 27.09 > 24dBm
5. 11dBm + 10log (40.72) = 27.10 > 24dBm

Chain 1
1. 11dBm + 10log (40.69) = 27.09 > 24dBm
2. 11dBm + 10log (40.79) = 27.11 > 24dBm
3. 11dBm + 10log (40.80) = 27.11 > 24dBm
4. 11dBm + 10log (40.66) = 27.09 > 24dBm
5. 11dBm + 10log (40.92) = 27.12 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	9.84	8.82	17.259	12.37	13.99	Pass
106	5530	10.64	10.01	21.611	13.35	13.99	Pass

Note: Gain = 13dBi + array gain (3.01dBi) > 6dBi, so the limit shall be reduced to 24-(16.01-6) = 13.99dBm.
Chain 0
1. 11dBm + 10log (84.08) = 30.25 > 24dBm
2. 11dBm + 10log (83.98) = 30.24 > 24dBm

Chain 1
1. 11dBm + 10log (83.78) = 30.23 > 24dBm
2. 11dBm + 10log (83.53) = 30.22 > 24dBm

Test Mode F

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
52	5260	56.754	17.54	24	Pass
60	5300	66.069	18.20	24	Pass
64	5320	59.020	17.71	24	Pass
100	5500	41.976	16.23	24	Pass
116	5580	**68.234**	18.34	24	Pass
140	5700	45.499	16.58	24	Pass

Note: Gain = 5.2dBi < 6dBi, so the limit no need to be reduced.
1. 11dBm + 10log (40.45) = 27.07 > 24dBm
2. 11dBm + 10log (42.33) = 27.27 > 24dBm
3. 11dBm + 10log (40.87) = 27.11 > 24dBm
4. 11dBm + 10log (33.40) = 26.24 > 24dBm
5. 11dBm + 10log (43.88) = 27.42 > 24dBm
6. 11dBm + 10log (35.69) = 26.53 > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
52	5260	**66.374**	18.22	24	Pass
60	5300	62.517	17.96	24	Pass
64	5320	61.094	17.86	24	Pass
100	5500	42.267	16.26	24	Pass
116	5580	67.298	18.28	24	Pass
140	5700	38.459	15.85	24	Pass

Note: Gain = 5.2dBi < 6dBi, so the limit no need to be reduced.
1. 11dBm + 10log (47.69) = 27.78 > 24dBm
2. 11dBm + 10log (47.56) = 27.77 > 24dBm
3. 11dBm + 10log (41.37) = 27.17 > 24dBm
4. 11dBm + 10log (33.72) = 26.28 > 24dBm
5. 11dBm + 10log (47.62) = 27.78 > 24dBm
6. 11dBm + 10log (33.05) = 26.19 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
54	5270	63.680	18.04	24	Pass
62	5310	16.482	12.17	24	Pass
102	5510	23.714	13.75	24	Pass
110	5550	66.222	18.21	24	Pass
134	5670	51.286	17.10	24	Pass

Note: Gain = 5.2dBi < 6dBi, so the limit no need to be reduced.
1. 11dBm + 10log (97.58) = 30.89 > 24dBm
2. 11dBm + 10log (53.03) = 28.25 > 24dBm
3. 11dBm + 10log (53.10) = 28.25 > 24dBm
4. 11dBm + 10log (97.05) = 30.87 > 24dBm
5. 11dBm + 10log (83.16) = 30.20 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
58	5290	5.728	7.58	24	Pass
106	5530	7.145	8.54	24	Pass

Note: Gain = 5.2dBi < 6dBi, so the limit no need to be reduced.
1. 11dBm + 10log (102.86) = 31.12 > 24dBm
2. 11dBm + 10log (96.98) = 30.87 > 24dBm

26dB Bandwidth

Test Mode A

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.52	19.34
60	5300	19.43	19.39
64	5320	19.52	19.40
100	5500	19.55	19.37
116	5580	19.51	19.38
140	5700	19.48	19.17

802.11n (HT20)

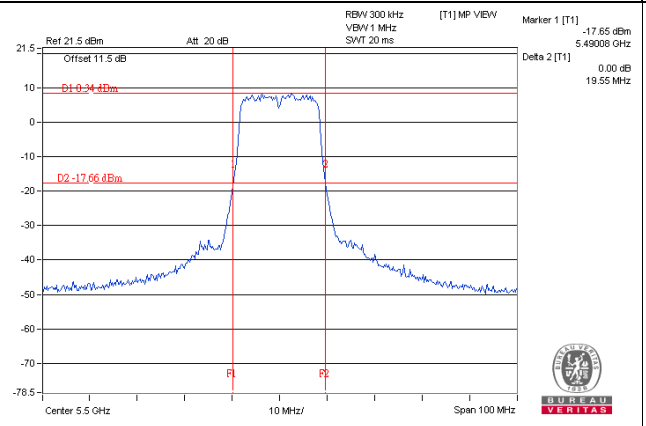
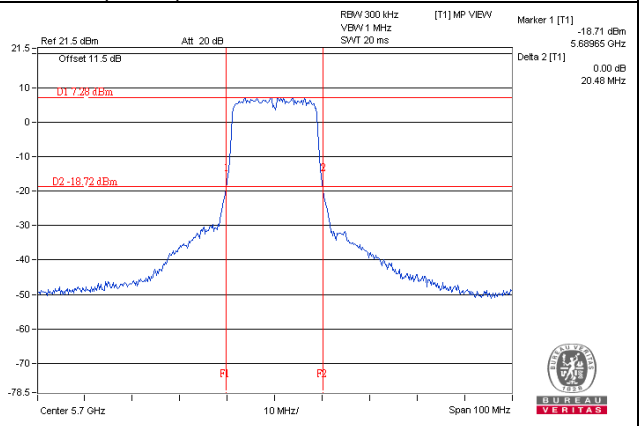
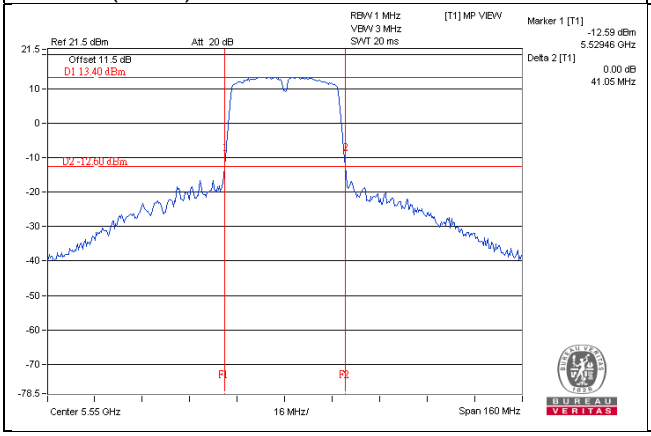
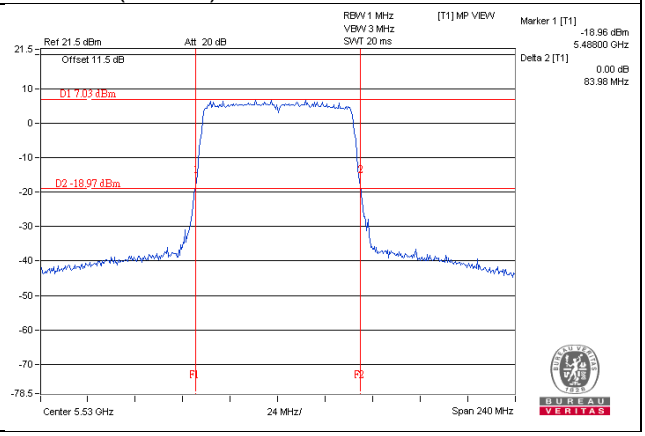
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.38	20.31
60	5300	20.39	20.43
64	5320	20.38	20.42
100	5500	20.30	20.43
116	5580	20.29	20.40
140	5700	20.48	20.28

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.81	40.94
62	5310	40.69	40.80
102	5510	40.68	40.60
110	5550	41.05	41.01
134	5670	40.74	40.83

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.92	83.98
106	5530	83.98	83.31

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode B

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.59	19.32
60	5300	19.47	19.32
64	5320	19.51	19.33
100	5500	19.54	19.31
116	5580	19.50	19.32
140	5700	19.49	19.23

802.11n (HT20)

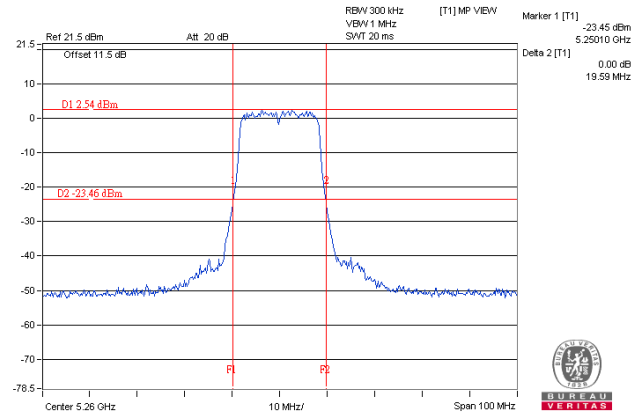
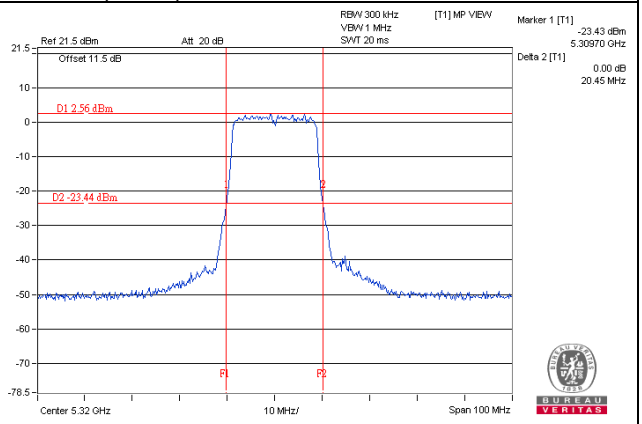
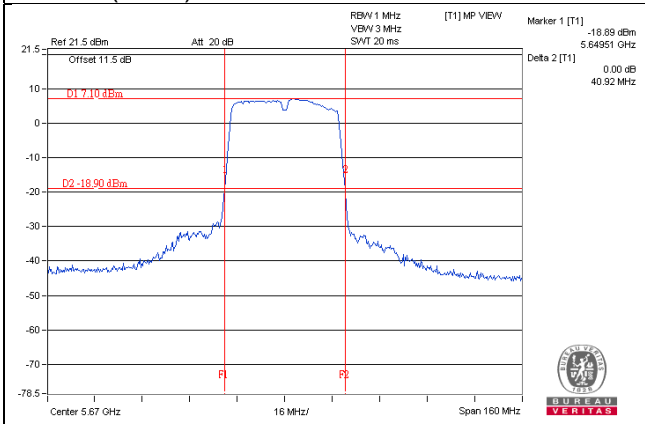
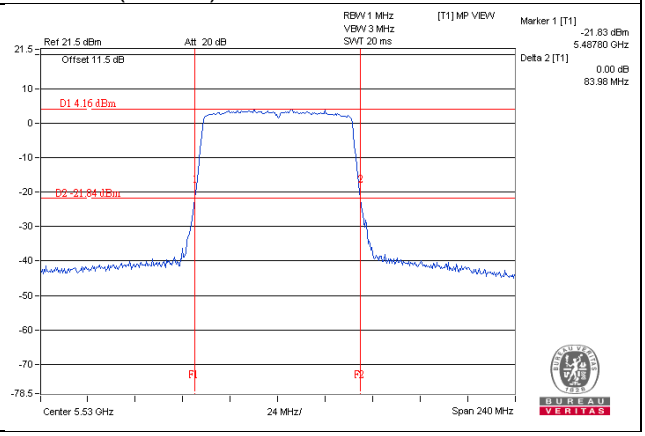
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.30	20.40
60	5300	20.42	20.39
64	5320	20.45	20.33
100	5500	20.38	20.37
116	5580	20.28	20.35
140	5700	20.30	20.22

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.61	40.69
62	5310	40.63	40.79
102	5510	40.71	40.80
110	5550	40.60	40.66
134	5670	40.72	40.92

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.88	83.69
106	5530	83.98	83.53

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode C

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.49	19.33
60	5300	19.69	19.32
64	5320	19.56	19.48
100	5500	19.61	19.53
116	5580	19.68	19.22
140	5700	19.64	19.31

802.11n (HT20)

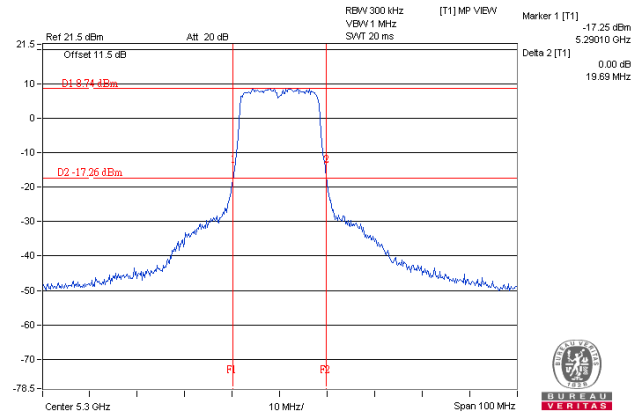
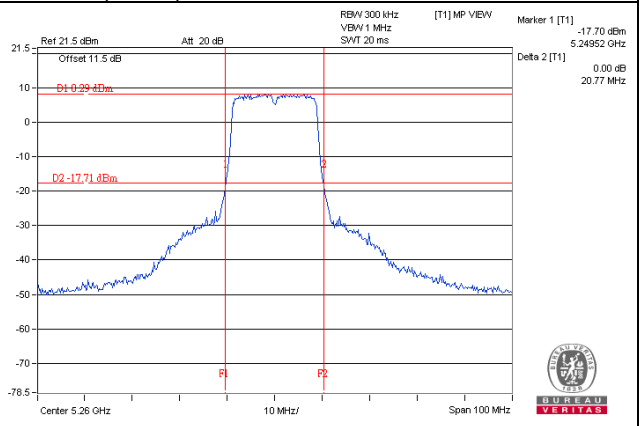
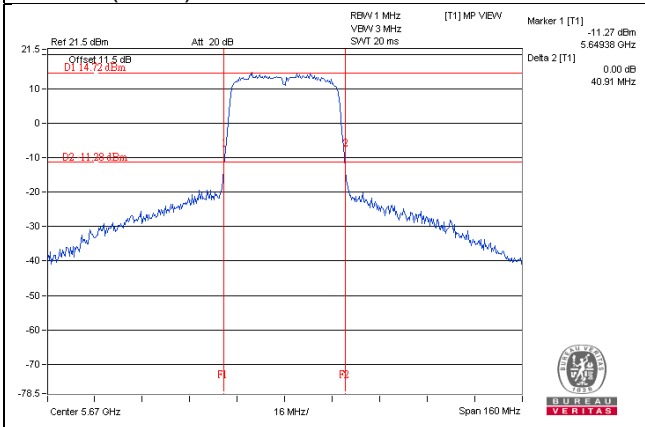
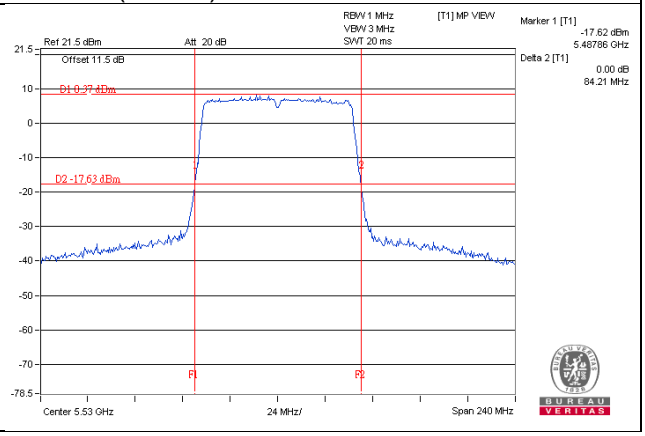
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.77	20.48
60	5300	20.67	20.51
64	5320	20.68	20.39
100	5500	20.53	20.50
116	5580	20.51	20.41
140	5700	20.56	20.55

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.72	40.78
62	5310	40.87	40.67
102	5510	40.69	40.44
110	5550	40.77	40.23
134	5670	40.91	40.58

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	84.26	82.89
106	5530	84.21	83.31

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode D

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.50	19.29
60	5300	19.57	19.22
64	5320	19.46	19.22
100	5500	19.31	19.42
116	5580	19.57	19.31
140	5700	19.71	19.23

802.11n (HT20)

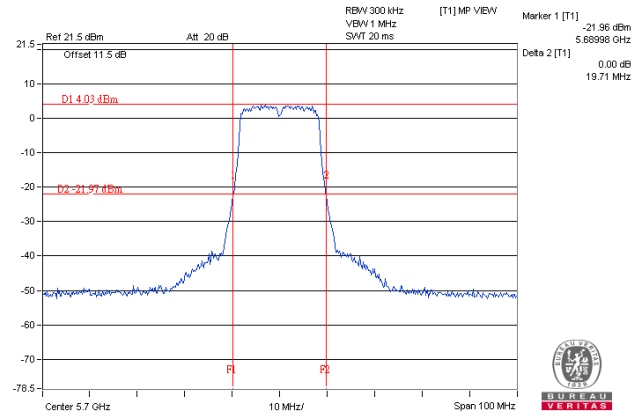
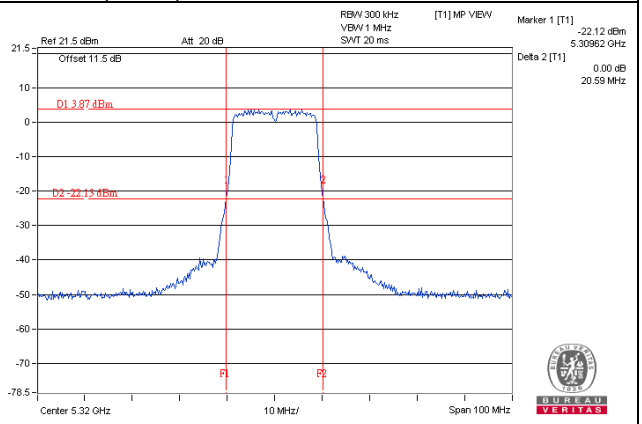
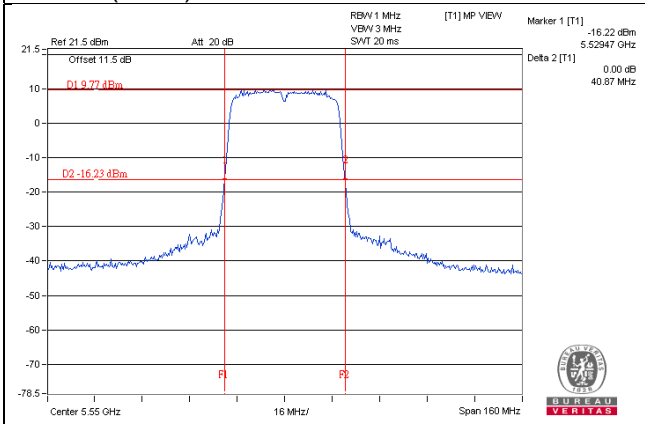
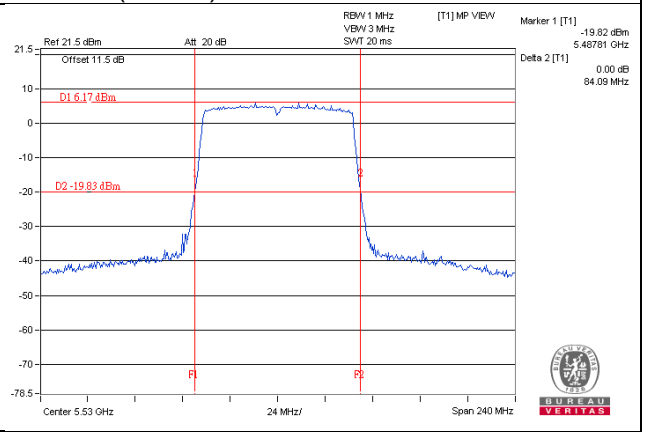
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.41	20.44
60	5300	20.44	20.48
64	5320	20.59	20.35
100	5500	20.51	20.53
116	5580	20.38	20.44
140	5700	20.46	20.45

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.76	40.62
62	5310	40.69	40.41
102	5510	40.68	40.41
110	5550	40.87	40.48
134	5670	40.81	40.48

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.78	83.78
106	5530	84.09	83.39

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode E

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.59	19.32
60	5300	19.47	19.32
64	5320	19.51	19.33
100	5500	19.54	19.31
116	5580	19.50	19.32
140	5700	19.49	19.23

802.11n (HT20)

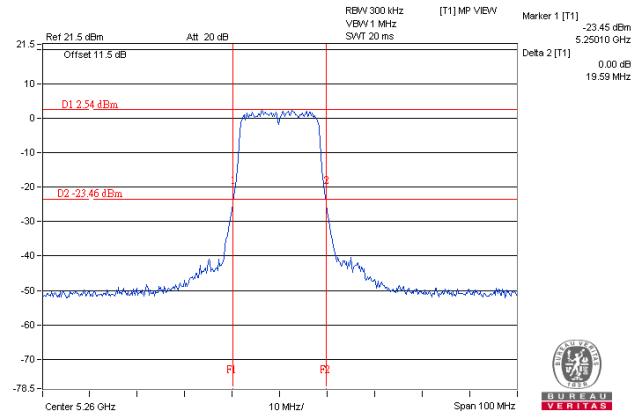
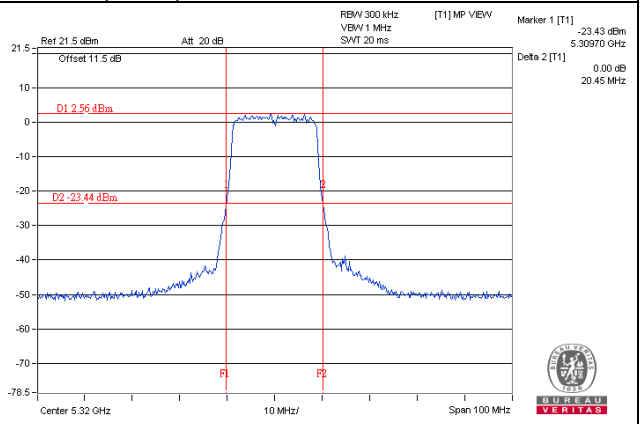
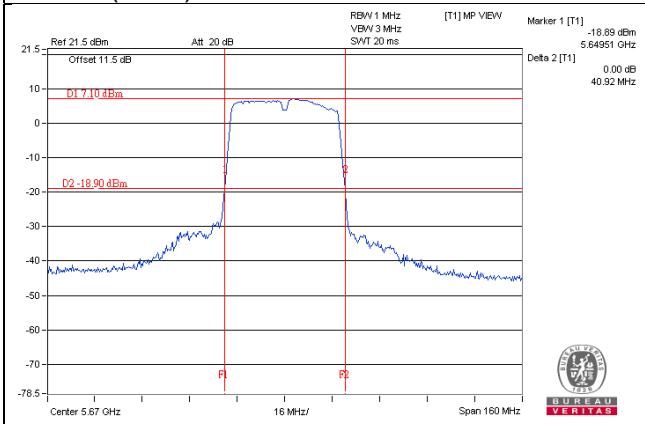
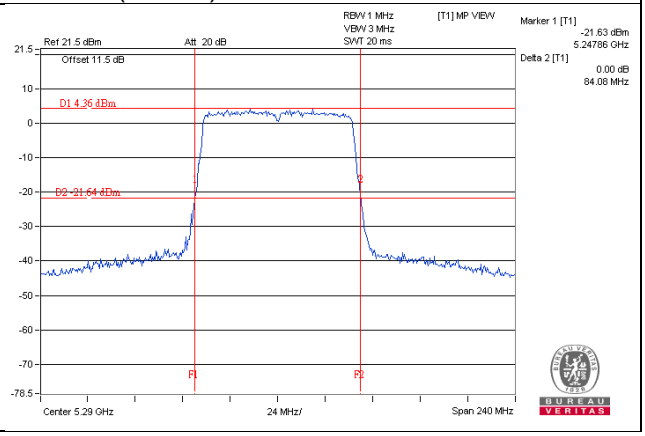
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.30	20.40
60	5300	20.42	20.39
64	5320	20.45	20.33
100	5500	20.38	20.37
116	5580	20.28	20.35
140	5700	20.30	20.22

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.61	40.69
62	5310	40.63	40.79
102	5510	40.71	40.80
110	5550	40.60	40.66
134	5670	40.72	40.92

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	84.08	83.78
106	5530	83.98	83.53

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode F

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	40.45
60	5300	42.33
64	5320	40.87
100	5500	33.40
116	5580	43.88
140	5700	35.69

802.11n (HT20)

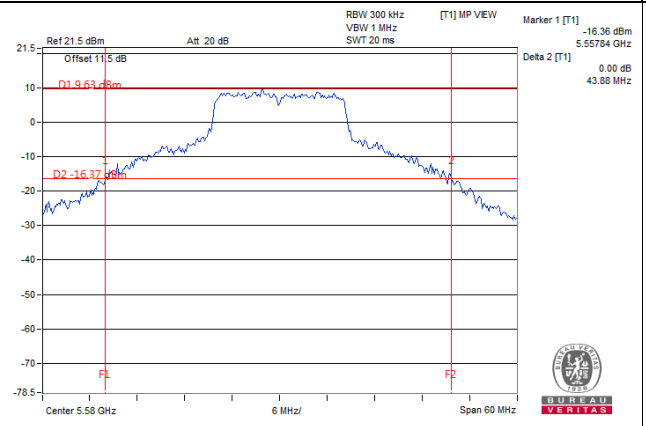
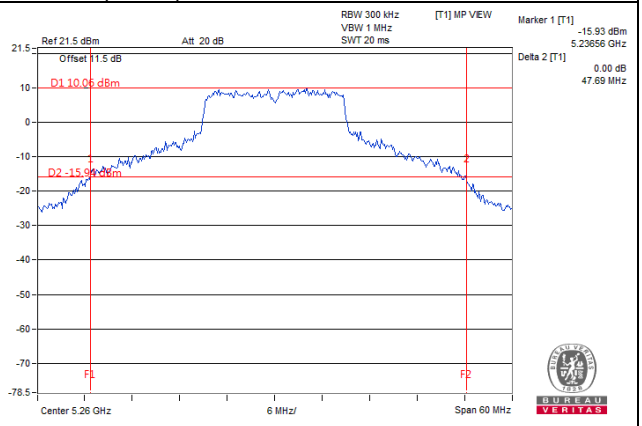
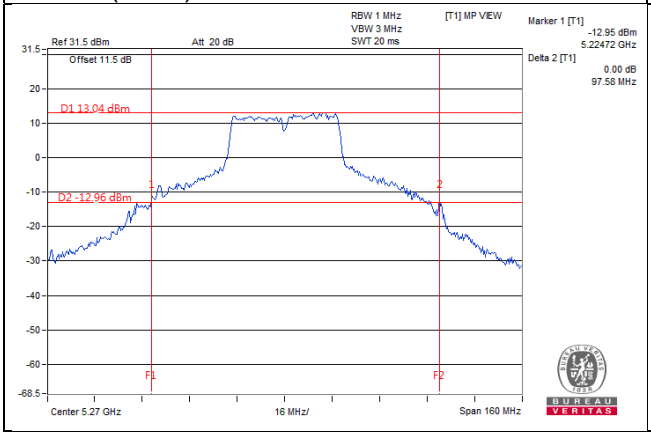
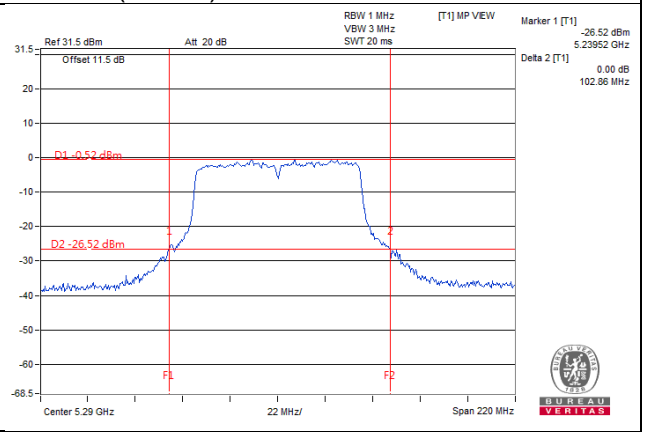
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	47.69
60	5300	47.56
64	5320	41.37
100	5500	33.72
116	5580	47.62
140	5700	33.05

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
54	5270	97.58
62	5310	53.03
102	5510	53.10
110	5550	97.05
134	5670	83.16

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
58	5290	102.86
106	5530	96.98

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

EUT MAXIMUM CONDUCTED POWER

Test Mode A, CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	97.082	19.87
5470~5725	102.381	20.10

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	97.695	19.90
5470~5725	95.691	19.81

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	172.459	22.37
5470~5725	180.326	22.56

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	34.646	15.40
5470~5725	59.693	17.76

Test Mode A, Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	48.850	16.89
5470~5725	47.849	16.80

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	86.236	19.36
5470~5725	90.170	19.55

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	17.324	12.39
5470~5725	29.849	14.75

Test Mode B, CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	22.432	13.51
5470~5725	26.366	14.21

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	24.132	13.83
5470~5725	25.475	14.06

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	43.729	16.41
5470~5725	48.102	16.82

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	21.879	13.40
5470~5725	43.219	16.36

Test Mode B, Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	12.066	10.82
5470~5725	12.738	11.05

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	21.866	13.40
5470~5725	24.053	13.81

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	10.940	10.39
5470~5725	21.611	13.35

Test Mode C, CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	91.584	19.62
5470~5725	94.981	19.78

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	110.670	20.44
5470~5725	112.604	20.52

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	178.969	22.53
5470~5725	185.177	22.68

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	64.419	18.09
5470~5725	86.590	19.37

Test Mode C, Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	55.338	17.43
5470~5725	56.306	17.51

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	89.491	19.52
5470~5725	92.595	19.67

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	32.212	15.08
5470~5725	43.297	16.36

Test Mode D, CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	31.397	14.97
5470~5725	29.668	14.72

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	31.966	15.05
5470~5725	35.499	15.50

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	59.850	17.77
5470~5725	67.681	18.30

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	44.006	16.44
5470~5725	68.402	18.35

Test Mode D, Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	15.985	12.04
5470~5725	17.751	12.49

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	29.927	14.76
5470~5725	33.842	15.29

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	22.004	13.43
5470~5725	34.203	15.34

Test Mode E, CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	22.432	13.51
5470~5725	26.366	14.21

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	24.132	13.83
5470~5725	25.475	14.06

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	43.729	16.41
5470~5725	48.102	16.82

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	34.516	15.38
5470~5725	43.219	16.36

Test Mode E, Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	12.066	10.82
5470~5725	12.738	11.05

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	21.866	13.40
5470~5725	24.053	13.81

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	17.259	12.37
5470~5725	21.611	13.35

Test Mode F

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	66.069	18.20
5470~5725	68.234	18.34

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	66.374	18.22
5470~5725	67.298	18.28

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	63.680	18.04
5470~5725	66.222	18.21

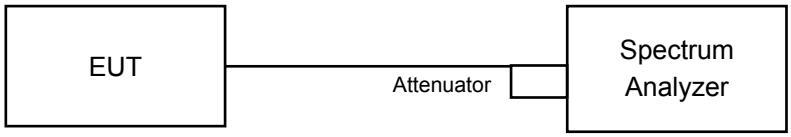
Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	5.728	7.58
5470~5725	7.145	8.54

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Results

Test Mode A

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.44	16.44
60	5300	16.56	16.44
64	5320	16.56	16.44
100	5500	16.44	16.44
116	5580	16.44	16.56
140	5700	16.56	16.56

802.11n (HT20)

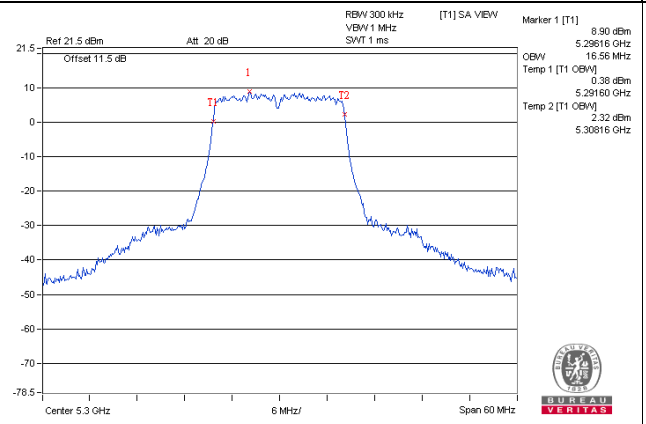
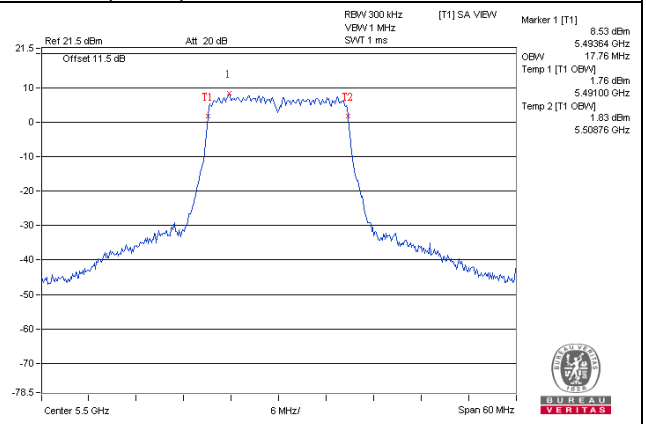
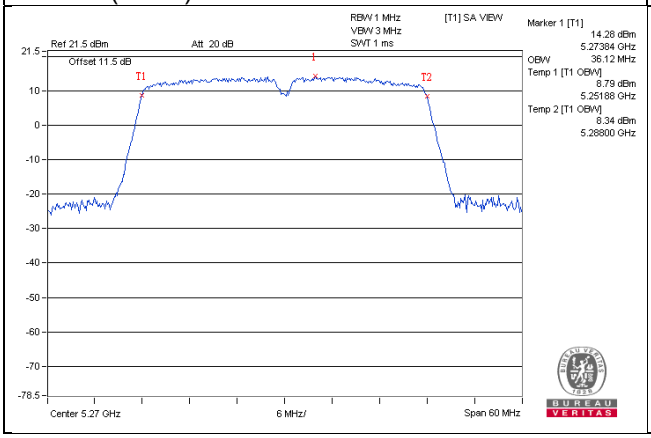
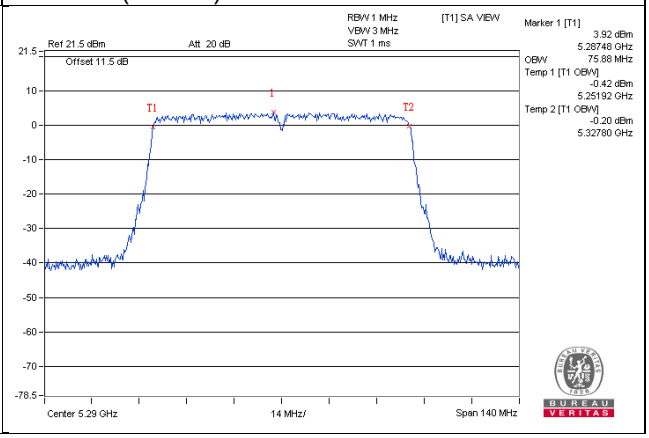
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.76
116	5580	17.52	17.76
140	5700	17.64	17.52

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	36.12	36.12
62	5310	36.12	36.12
102	5510	36.12	36.00
110	5550	36.12	36.00
134	5670	36.12	36.12

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	75.88	75.88
106	5530	75.88	75.60

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode B

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.56	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.56	16.44

802.11n (HT20)

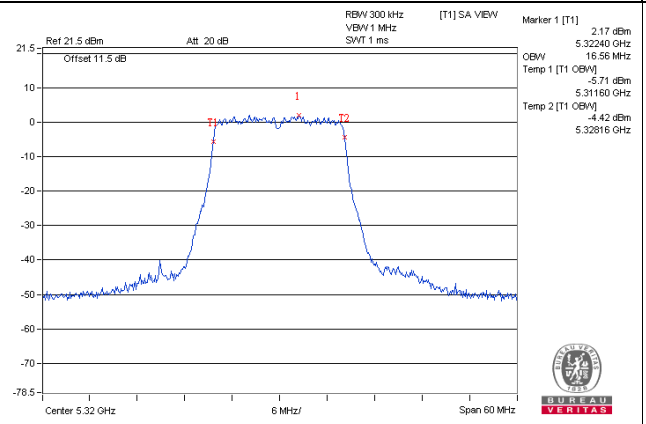
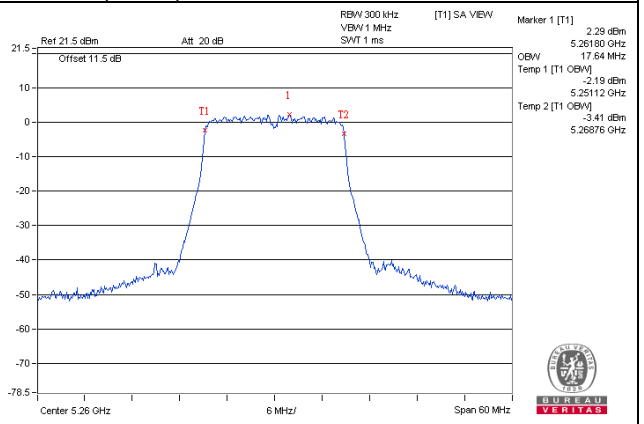
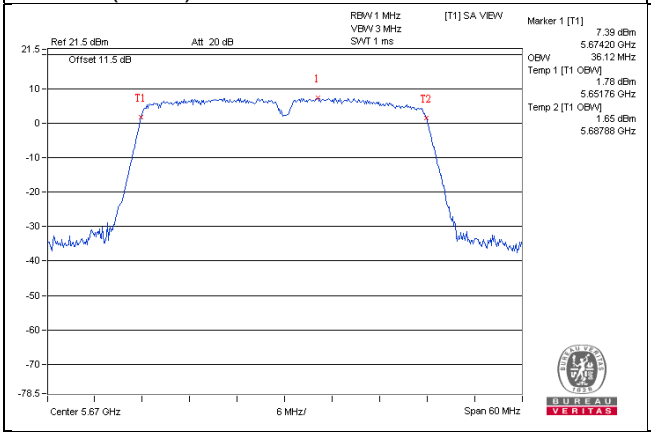
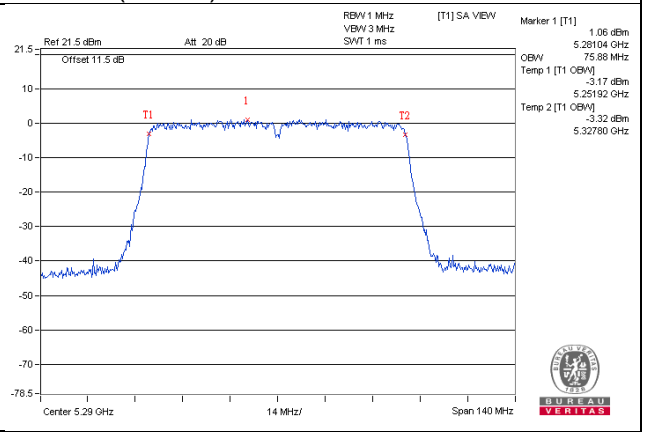
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.64
116	5580	17.52	17.64
140	5700	17.52	17.52

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	36.00	36.00
62	5310	36.00	36.00
102	5510	36.12	35.88
110	5550	36.12	36.00
134	5670	36.12	36.12

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	75.88	75.60
106	5530	75.88	75.60

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode C

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.56	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.56	16.32

802.11n (HT20)

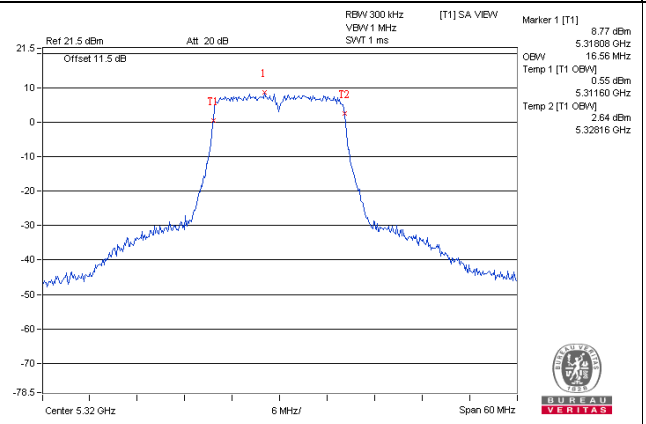
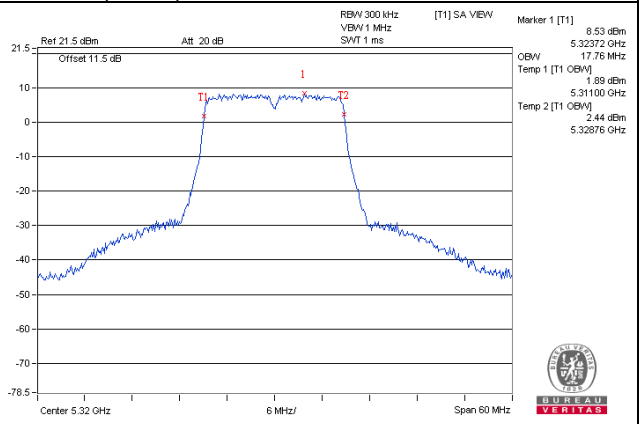
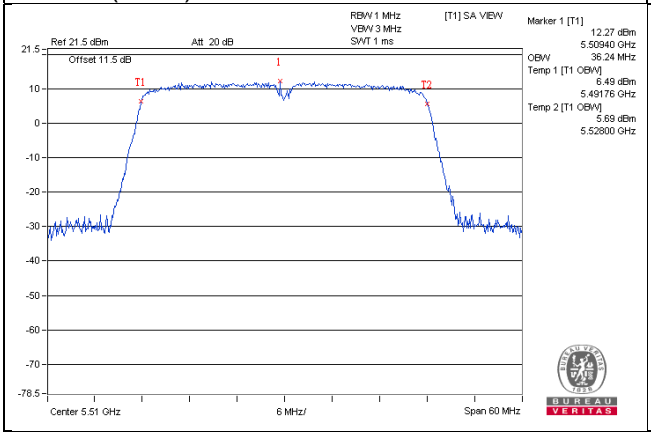
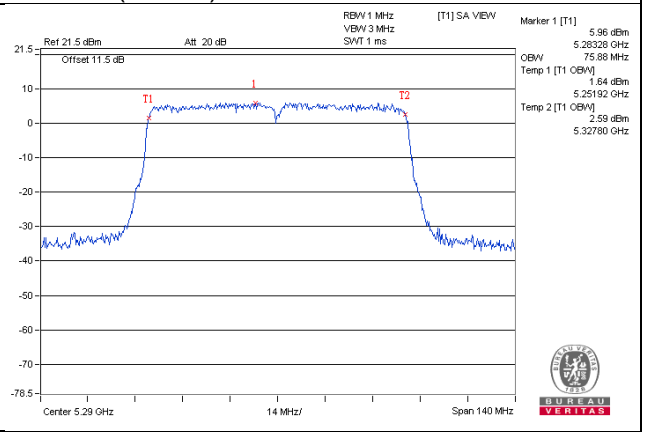
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.76	17.64
100	5500	17.64	17.64
116	5580	17.64	17.76
140	5700	17.76	17.64

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	36.12	36.24
62	5310	36.12	36.24
102	5510	36.24	36.12
110	5550	36.24	36.00
134	5670	36.12	36.12

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	75.88	75.60
106	5530	75.88	75.60

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode D

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.44	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.44	16.32

802.11n (HT20)

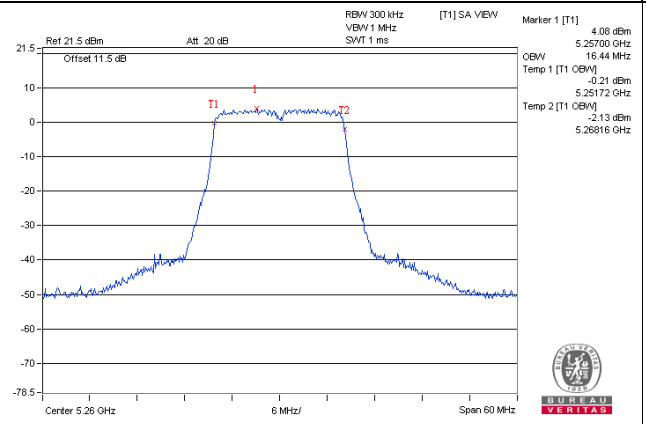
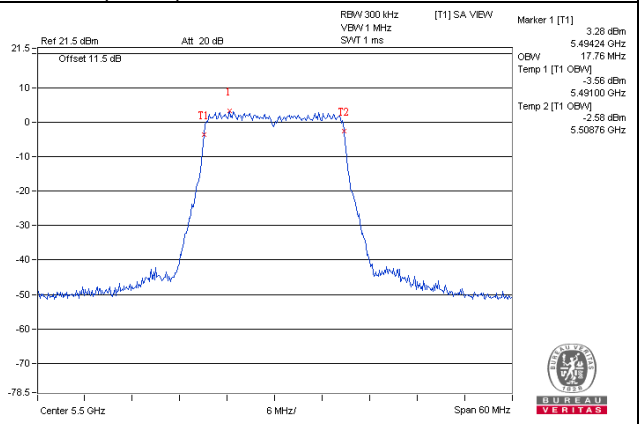
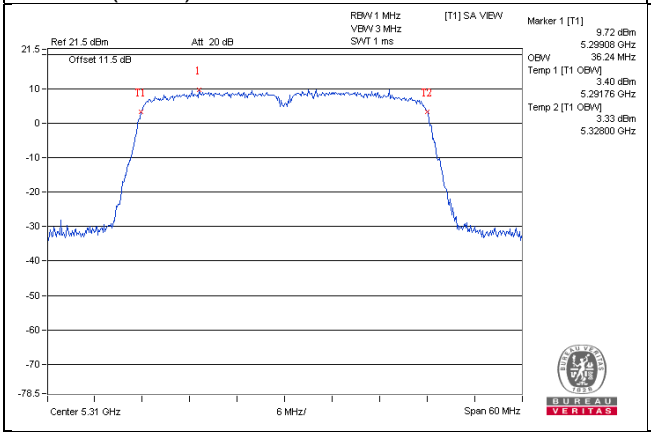
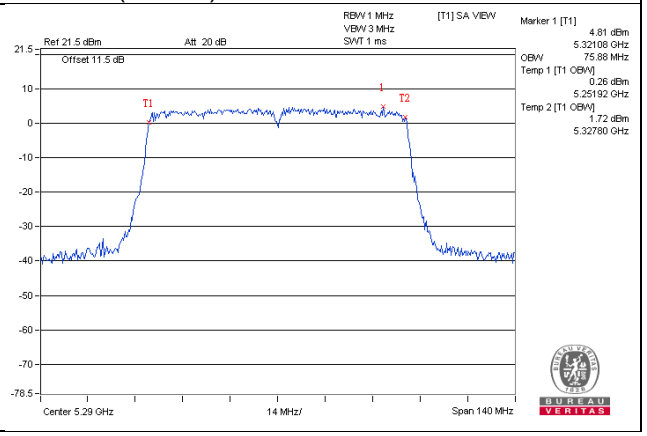
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.76
116	5580	17.64	17.64
140	5700	17.64	17.52

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	36.12	36.12
62	5310	36.24	36.12
102	5510	36.12	36.00
110	5550	36.24	36.00
134	5670	36.24	36.12

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	75.88	75.60
106	5530	75.88	75.60

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode E

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.56	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.56	16.44

802.11n (HT20)

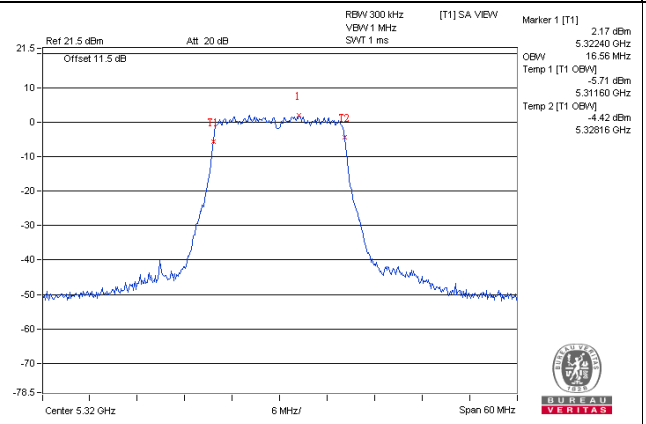
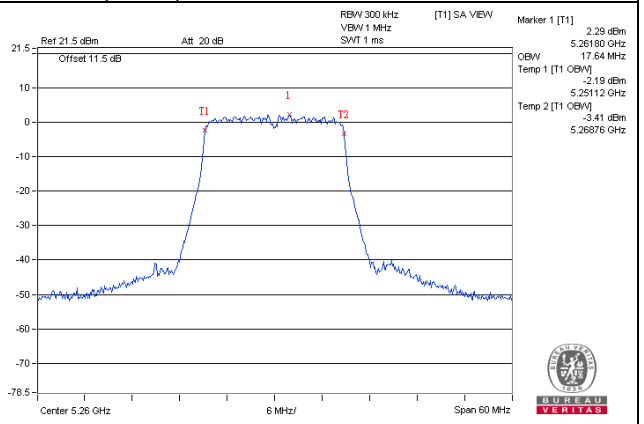
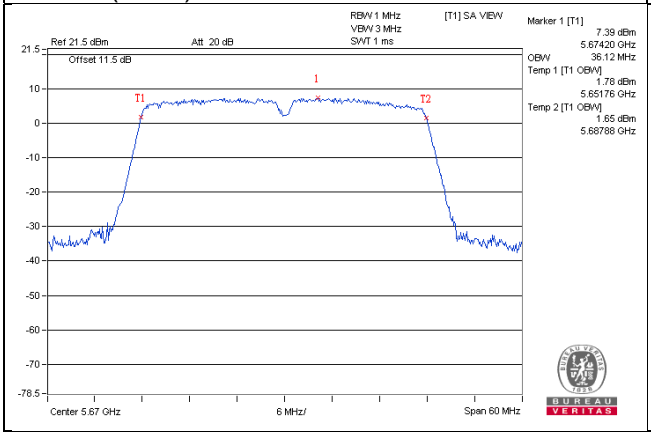
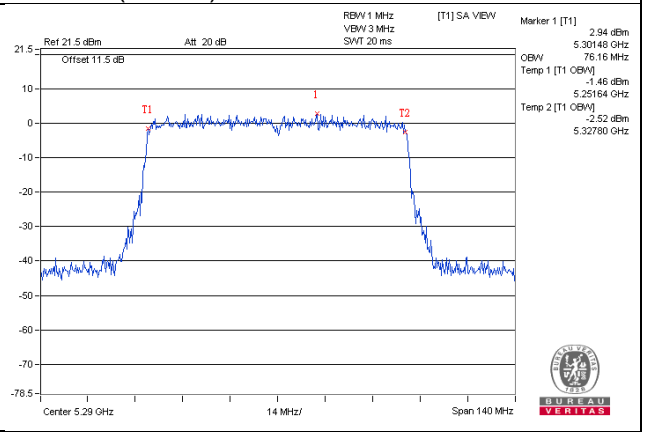
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.64
116	5580	17.52	17.64
140	5700	17.52	17.52

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	36.00	36.00
62	5310	36.00	36.00
102	5510	36.12	35.88
110	5550	36.12	36.00
134	5670	36.12	36.12

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	76.16	75.88
106	5530	75.88	75.60

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Test Mode F

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
52	5260	25.32
60	5300	27.36
64	5320	25.32
100	5500	19.08
116	5580	29.76
140	5700	21.00

802.11n (HT20)

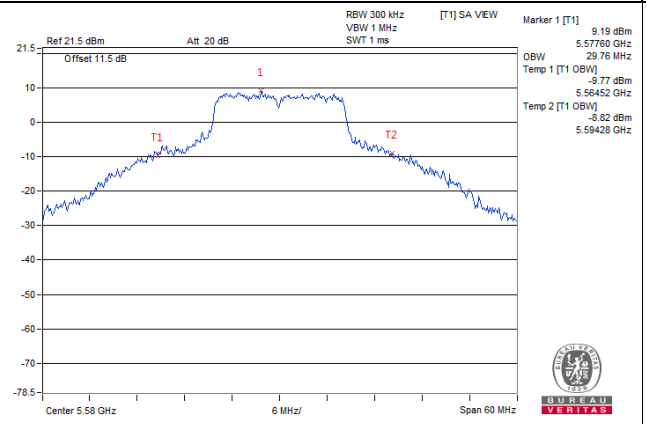
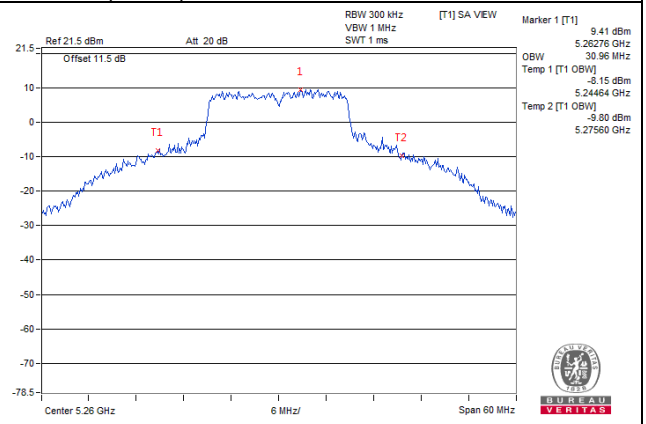
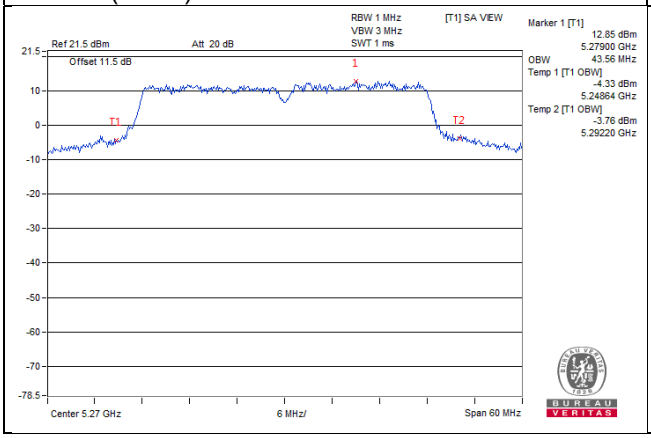
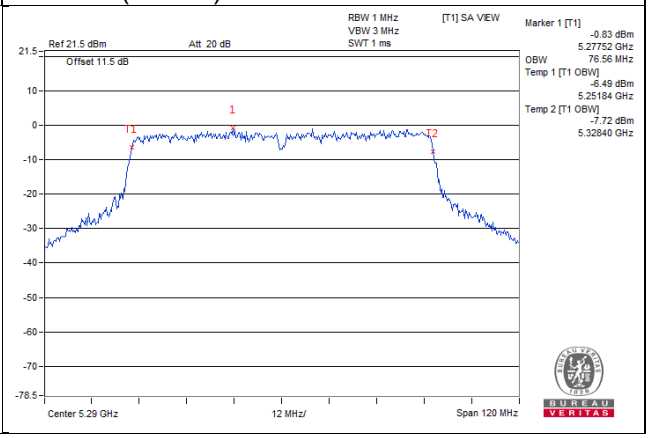
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
52	5260	30.96
60	5300	28.32
64	5320	23.28
100	5500	19.44
116	5580	30.48
140	5700	19.20

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
54	5270	43.56
62	5310	37.44
102	5510	37.44
110	5550	42.72
134	5670	39.72

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
58	5290	76.56
106	5530	76.56

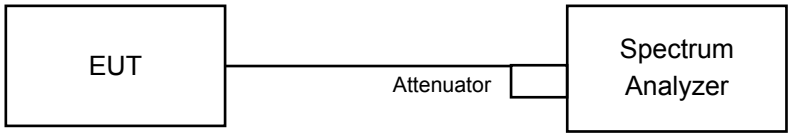
Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

4.5 Peak Power Spectral Density Measurement

4.5.1 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/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

Duty cycle of test signal is ≥ 98 %
Using method SA-1
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.

Duty cycle of test signal is < 98 %
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 and add 10 log (1/duty cycle).

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as Item 4.3.6.

4.5.7 Test Results

Test Mode A

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	4.32	3.04	0.24	6.98	6.99	Pass
60	5300	3.46	3.16	0.24	6.56	6.99	Pass
64	5320	4.01	3.42	0.24	6.98	6.99	Pass
100	5500	3.47	3.90	0.24	6.94	6.99	Pass
116	5580	3.65	3.75	0.24	6.95	6.99	Pass
140	5700	3.33	2.26	0.24	6.08	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 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.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	3.82	3.06	6.47	6.99	Pass
60	5300	3.93	2.73	6.38	6.99	Pass
64	5320	4.16	3.30	6.76	6.99	Pass
100	5500	3.85	3.94	6.91	6.99	Pass
116	5580	3.37	3.37	6.38	6.99	Pass
140	5700	2.66	2.09	5.39	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 limit shall be reduced to 11-(10.01-6) = 6.99dBm.

802.11n (HT40)

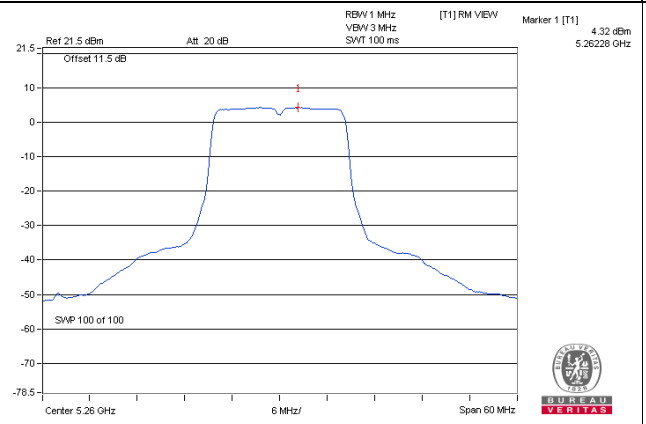
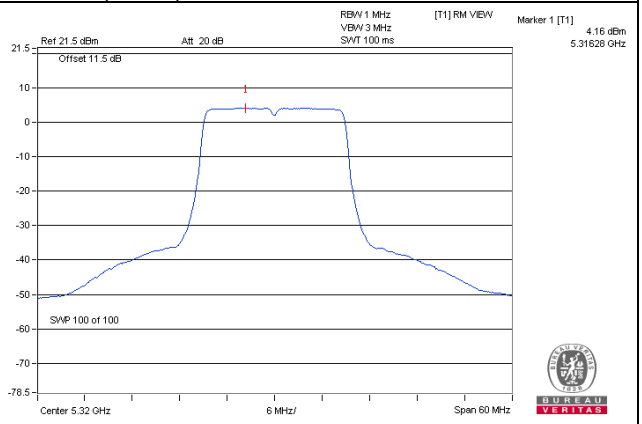
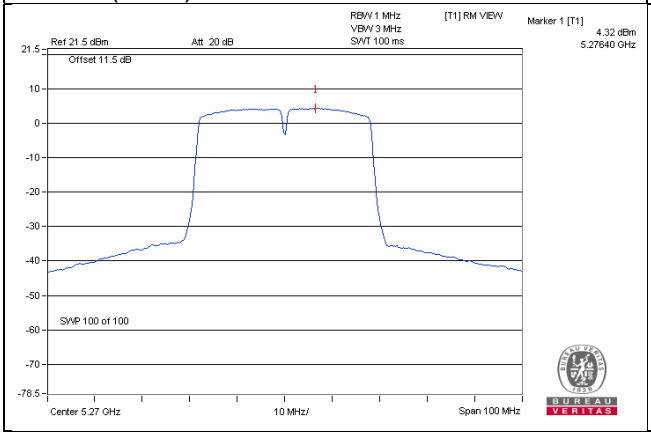
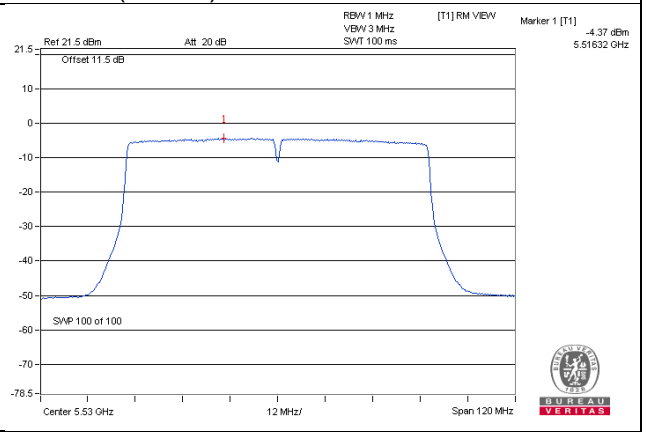
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	4.31	2.74	0.17	6.78	6.99	Pass
62	5310	-0.66	-1.85	0.17	1.97	6.99	Pass
102	5510	-0.41	0.09	0.17	3.03	6.99	Pass
110	5550	3.66	3.27	0.17	6.65	6.99	Pass
134	5670	2.42	1.88	0.17	5.34	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 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 W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-6.04	-7.70	0.41	-3.37	6.99	Pass
106	5530	-4.41	-4.62	0.41	-1.09	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 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 / Chain 0 / CH 52	802.11n (HT20) / Chain 0 / CH 64
	
802.11n (HT40)/ Chain 0 / CH 54	802.11ac (VHT80) / Chain 0 / CH 106
	

Test Mode B

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	-2.13	-3.29	0.24	0.58	0.99	Pass
60	5300	-2.12	-3.28	0.24	0.59	0.99	Pass
64	5320	-2.30	-3.21	0.24	0.52	0.99	Pass
100	5500	-2.90	-2.69	0.24	0.46	0.99	Pass
116	5580	-2.35	-2.23	0.24	0.96	0.99	Pass
140	5700	-2.34	-3.28	0.24	0.47	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 limit shall be reduced to 11-(16.01-6) = 0.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	-2.04	-2.80	0.61	0.99	Pass
60	5300	-1.97	-3.04	0.54	0.99	Pass
64	5320	-2.17	-2.86	0.51	0.99	Pass
100	5500	-2.46	-2.50	0.53	0.99	Pass
116	5580	-2.51	-2.40	0.56	0.99	Pass
140	5700	-2.67	-3.26	0.06	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 limit shall be reduced to 11-(16.01-6) = 0.99dBm.

802.11n (HT40)

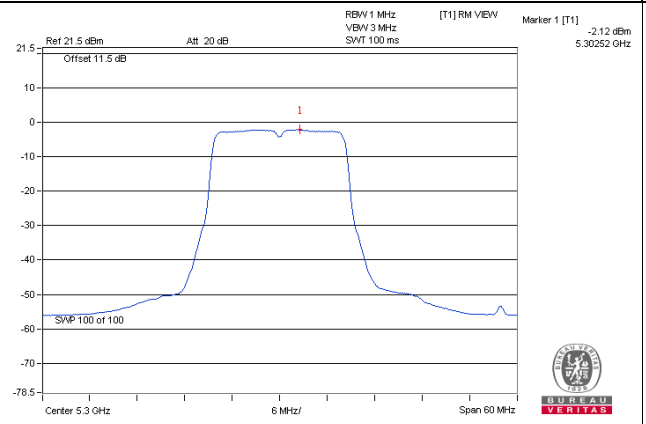
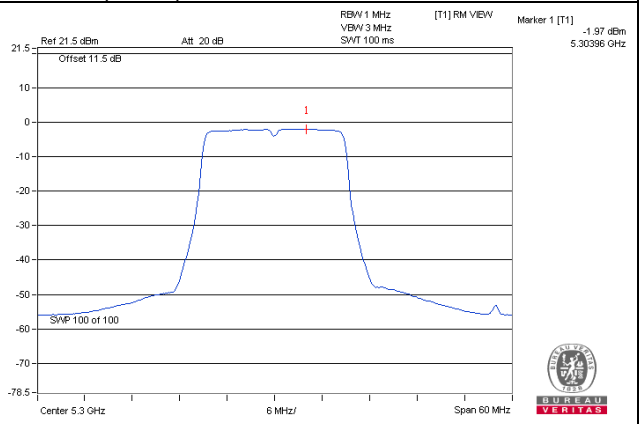
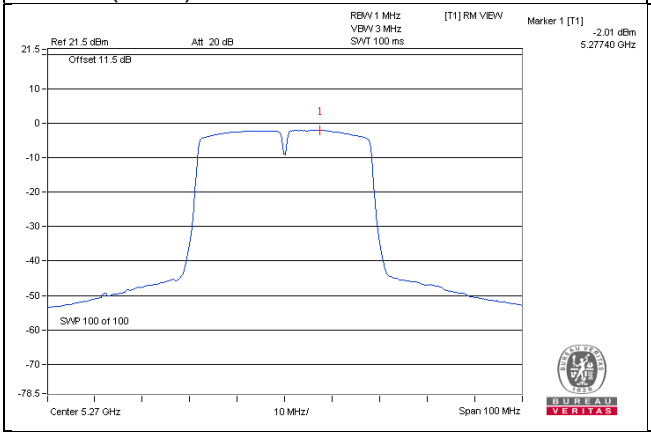
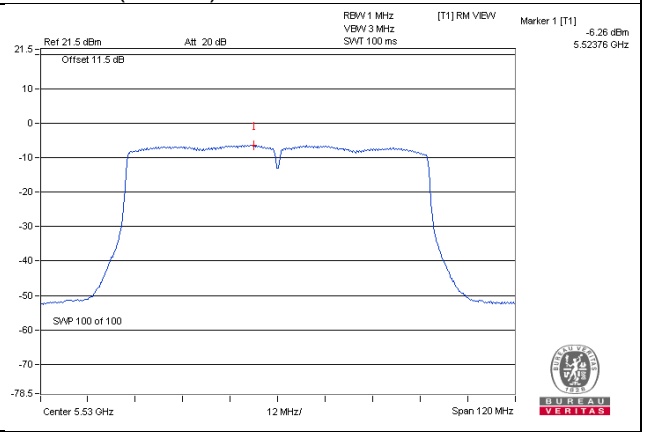
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	-2.01	-3.22	0.17	0.61	0.99	Pass
62	5310	-2.53	-3.65	0.17	0.13	0.99	Pass
102	5510	-2.62	-2.31	0.17	0.72	0.99	Pass
110	5550	-2.72	-2.74	0.17	0.45	0.99	Pass
134	5670	-2.42	-2.85	0.17	0.55	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 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 W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-8.72	-9.80	0.41	-5.80	0.99	Pass
106	5530	-6.49	-6.26	0.41	-2.95	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 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 / Chain 0 / CH 60	802.11n (HT20) / Chain 0 / CH 60
	
802.11n (HT40)/ Chain 0 / CH 54	802.11ac (VHT80) / Chain 1 / CH 106
	

Test Mode C

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	3.86	3.27	0.24	6.83	6.89	Pass
60	5300	3.83	3.33	0.24	6.84	6.89	Pass
64	5320	3.97	3.25	0.24	6.88	6.89	Pass
100	5500	3.22	3.99	0.24	6.87	6.89	Pass
116	5580	3.24	3.83	0.24	6.80	6.89	Pass
140	5700	3.77	3.37	0.24	6.83	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 limit shall be reduced to 11-(10.11-6) = 6.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	3.81	3.14	6.50	6.89	Pass
60	5300	3.82	2.84	6.37	6.89	Pass
64	5320	4.06	3.40	6.75	6.89	Pass
100	5500	3.87	3.69	6.79	6.89	Pass
116	5580	3.56	3.26	6.42	6.89	Pass
140	5700	2.91	2.63	5.78	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 limit shall be reduced to 11-(10.11-6) = 6.89dBm.

802.11n (HT40)

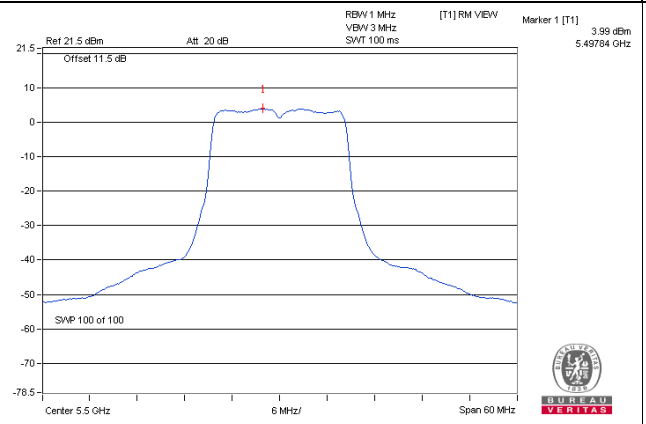
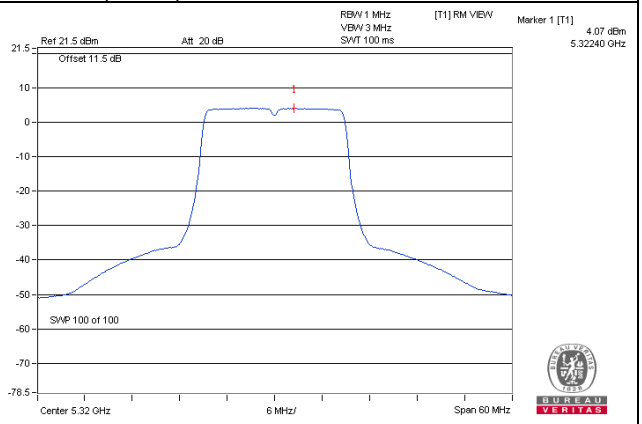
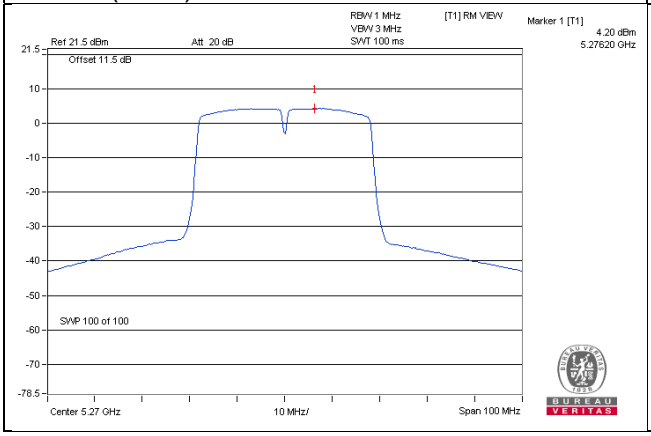
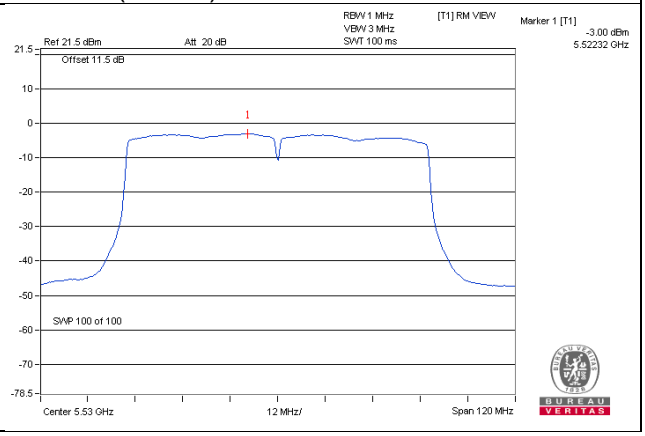
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	4.23	3.07	0.17	6.87	6.89	Pass
62	5310	2.81	1.79	0.17	5.51	6.89	Pass
102	5510	1.75	2.14	0.17	5.13	6.89	Pass
110	5550	3.66	3.42	0.17	6.72	6.89	Pass
134	5670	3.49	3.46	0.17	6.66	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 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 W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-3.72	-4.96	0.41	-0.87	6.89	Pass
106	5530	-3.21	-3.00	0.41	0.32	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 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 / Chain 1 / CH 100	802.11n (HT20) / Chain 0 / CH 64
	
802.11n (HT40)/ Chain 0 / CH 54	802.11ac (VHT80) / Chain 1 / CH 106
	

Test Mode D

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	-0.94	-0.95	0.24	2.31	2.69	Pass
60	5300	-0.51	-1.57	0.24	2.24	2.69	Pass
64	5320	-0.59	-1.43	0.24	2.26	2.69	Pass
100	5500	-0.99	-1.01	0.24	2.25	2.69	Pass
116	5580	-1.06	-0.93	0.24	2.26	2.69	Pass
140	5700	-0.65	-1.06	0.24	2.40	2.69	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 = 11.3dBi + 10log(2) = 14.31dBi > 6dBi, so the limit shall be reduced to 11-(14.31-6) = 2.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	-0.52	-1.17	2.18	2.69	Pass
60	5300	-0.42	-1.41	2.12	2.69	Pass
64	5320	-0.65	-1.34	2.03	2.69	Pass
100	5500	-0.75	-1.20	2.04	2.69	Pass
116	5580	-0.77	-0.87	2.19	2.69	Pass
140	5700	-0.92	-1.33	1.89	2.69	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 = 11.3dBi + 10log(2) = 14.31dBi > 6dBi, so the limit shall be reduced to 11-(14.31-6) = 2.69dBm.

802.11n (HT40)

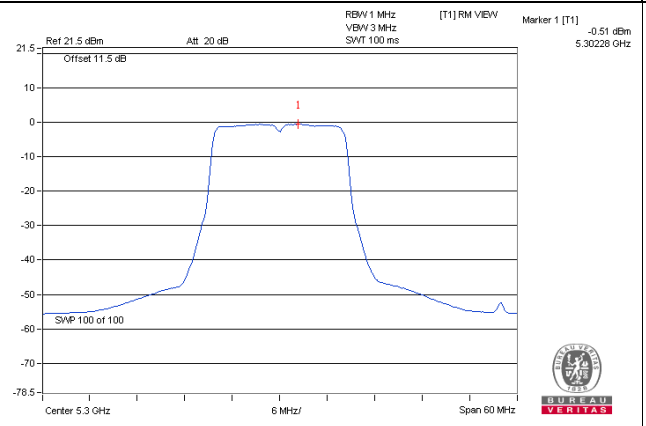
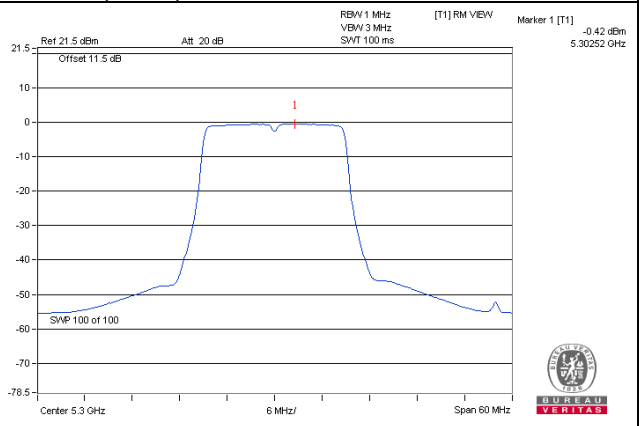
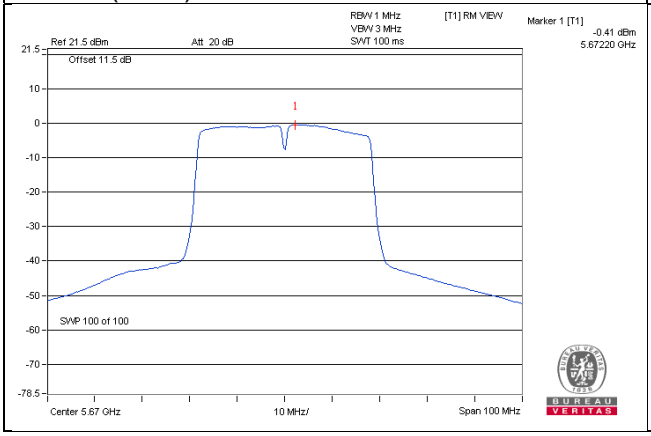
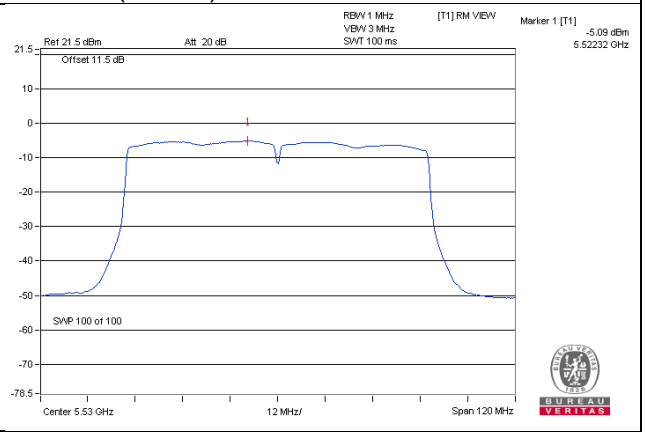
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	-0.55	-1.40	0.17	2.23	2.69	Pass
62	5310	-0.47	-1.31	0.17	2.31	2.69	Pass
102	5510	-1.12	-0.60	0.17	2.33	2.69	Pass
110	5550	-0.59	-0.55	0.17	2.61	2.69	Pass
134	5670	-0.70	-0.43	0.17	2.62	2.69	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 = 11.3dBi + 10log(2) = 14.31dBi > 6dBi, so the limit shall be reduced to 11-(14.31-6) = 2.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-5.29	-6.45	0.41	-2.41	2.69	Pass
106	5530	-5.29	-5.09	0.41	-1.76	2.69	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 = 11.3dBi + 10log(2) = 14.31dBi > 6dBi, so the limit shall be reduced to 11-(14.31-6) = 2.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 60	802.11n (HT20) / Chain 0 / CH 60
	
802.11n (HT40)/ Chain 1 / CH 134	802.11ac (VHT80) / Chain 1 / CH 106
	

Test Mode E

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	-2.13	-3.29	0.24	0.58	0.99	Pass
60	5300	-2.12	-3.28	0.24	0.59	0.99	Pass
64	5320	-2.30	-3.21	0.24	0.52	0.99	Pass
100	5500	-2.90	-2.69	0.24	0.46	0.99	Pass
116	5580	-2.35	-2.23	0.24	0.96	0.99	Pass
140	5700	-2.34	-3.28	0.24	0.47	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 limit shall be reduced to 11-(16.01-6) = 0.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	-2.04	-2.80	0.61	0.99	Pass
60	5300	-1.97	-3.04	0.54	0.99	Pass
64	5320	-2.17	-2.86	0.51	0.99	Pass
100	5500	-2.46	-2.50	0.53	0.99	Pass
116	5580	-2.51	-2.40	0.56	0.99	Pass
140	5700	-2.67	-3.26	0.06	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 limit shall be reduced to 11-(16.01-6) = 0.99dBm.

802.11n (HT40)

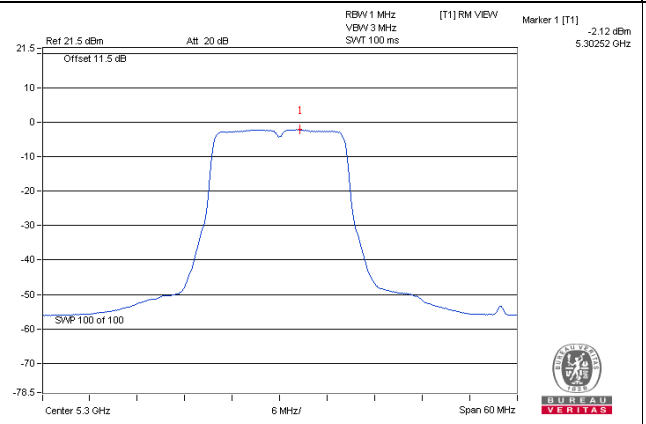
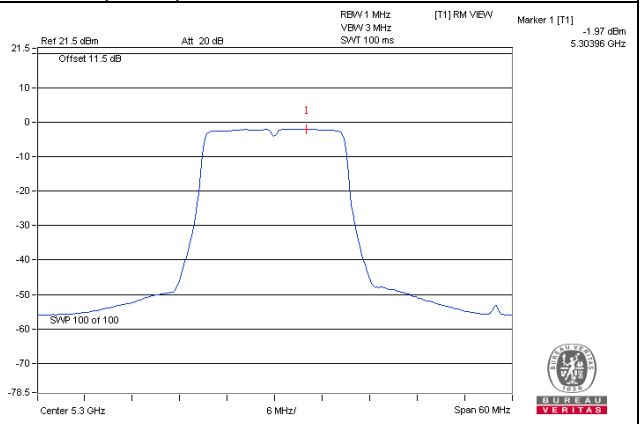
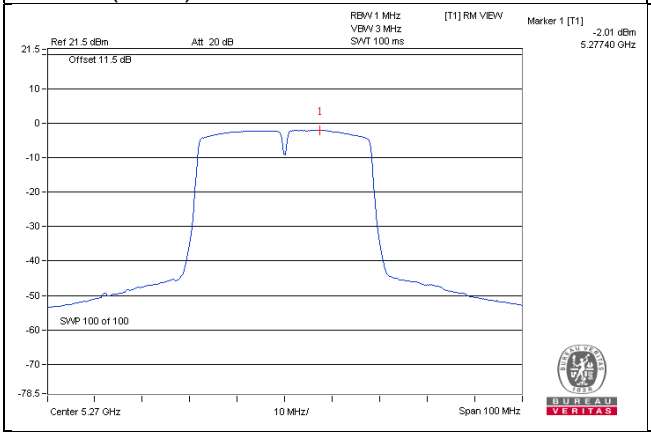
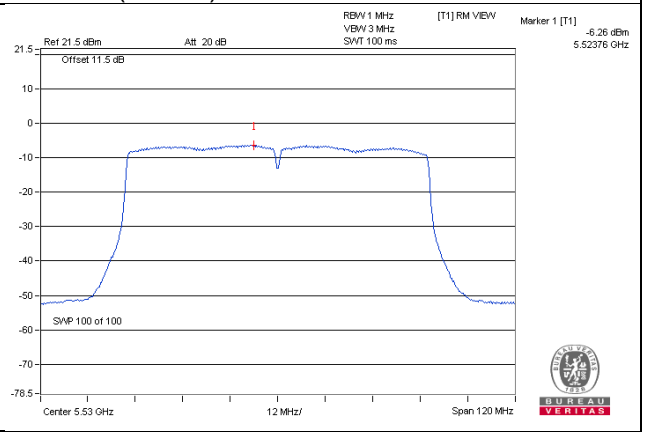
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	-2.01	-3.22	0.17	0.61	0.99	Pass
62	5310	-2.53	-3.65	0.17	0.13	0.99	Pass
102	5510	-2.62	-2.31	0.17	0.72	0.99	Pass
110	5550	-2.72	-2.74	0.17	0.45	0.99	Pass
134	5670	-2.42	-2.85	0.17	0.55	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 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 W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-7.55	-8.36	0.41	-4.51	0.99	Pass
106	5530	-6.49	-6.26	0.41	-2.95	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 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 / Chain 0 / CH 60	802.11n (HT20) / Chain 0 / CH 60
	
802.11n (HT40)/ Chain 0 / CH 54	802.11ac (VHT80) / Chain 1 / CH 106
	

Test Mode F

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
52	5260	4.05	0.16	4.21	11	Pass
60	5300	5.07	0.16	5.23	11	Pass
64	5320	4.82	0.16	4.98	11	Pass
100	5500	2.78	0.16	2.94	11	Pass
116	5580	4.45	0.16	4.61	11	Pass
140	5700	3.04	0.16	3.20	11	Pass

Note:
1. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
52	5260	4.82	0.17	4.99	11	Pass
60	5300	4.99	0.17	5.16	11	Pass
64	5320	4.22	0.17	4.39	11	Pass
100	5500	2.69	0.17	2.86	11	Pass
116	5580	4.19	0.17	4.36	11	Pass
140	5700	2.00	0.17	2.17	11	Pass

Note:
1. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

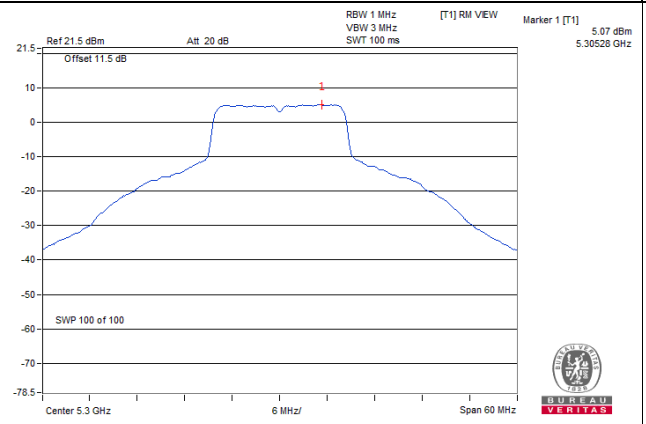
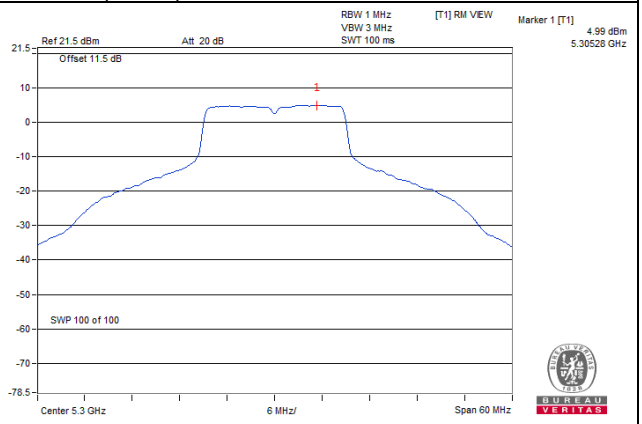
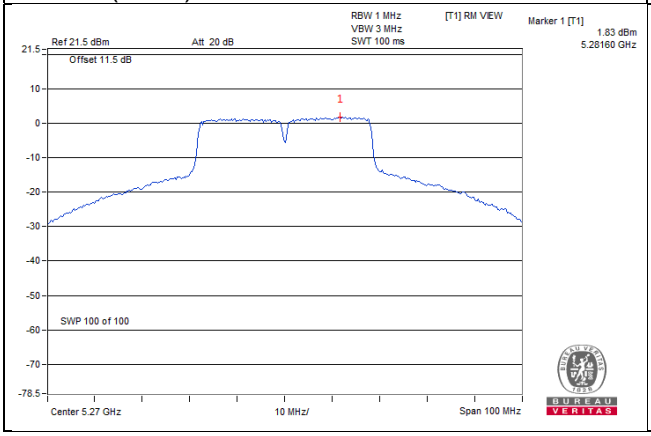
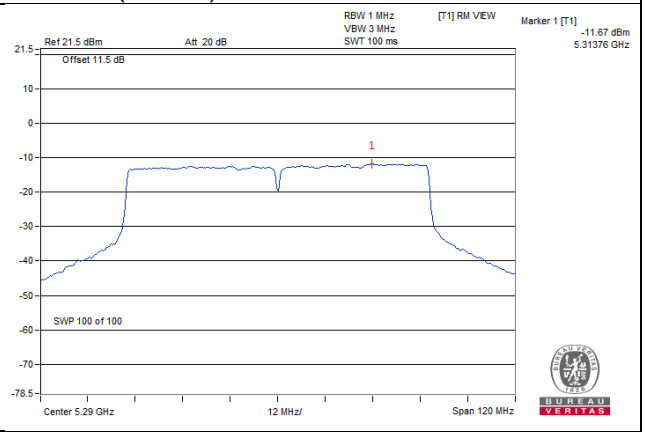
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
54	5270	1.83	0.33	2.16	11	Pass
62	5310	-3.89	0.33	-3.56	11	Pass
102	5510	-3.34	0.33	-3.01	11	Pass
110	5550	1.30	0.33	1.63	11	Pass
134	5670	0.02	0.33	0.35	11	Pass

Note:
1. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
58	5290	-11.67	1.13	-10.54	11	Pass
106	5530	-12.15	1.13	-11.02	11	Pass

Note:
1. Refer to section 3.3 for duty cycle spectrum plot.

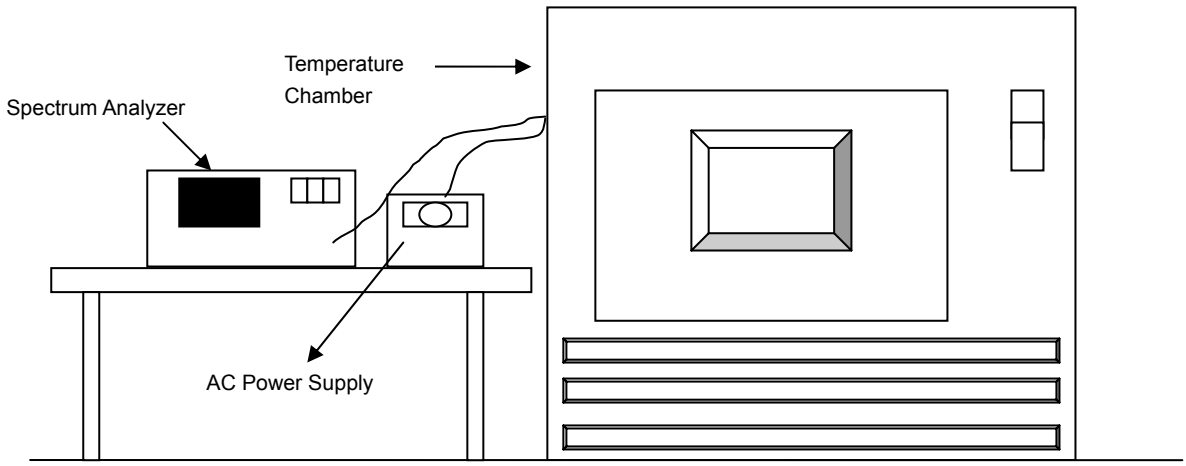
Spectrum Plot of Worst Value	
802.11a / CH 60	802.11n (HT20) / CH 60
	
802.11n (HT40) / CH 54	802.11ac (VHT80) / CH 106
	

4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Test Mode A

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	120	5700.0239	0.00042	5700.0258	0.00045	5700.0284	0.00050	5700.0265	0.00046
40	120	5699.9822	-0.00031	5699.9802	-0.00035	5699.9778	-0.00039	5699.9795	-0.00036
30	120	5699.9926	-0.00013	5699.9915	-0.00015	5699.9931	-0.00012	5699.9934	-0.00012
20	120	5700.0054	0.00009	5700.0052	0.00009	5700.0082	0.00014	5700.0098	0.00017
10	120	5700.0154	0.00027	5700.0172	0.00030	5700.0165	0.00029	5700.0186	0.00033
0	120	5699.9832	-0.00029	5699.9837	-0.00029	5699.9849	-0.00026	5699.9832	-0.00029
-10	120	5699.9774	-0.00040	5699.9755	-0.00043	5699.9796	-0.00036	5699.9772	-0.00040
-20	120	5700.017	0.00030	5700.017	0.00030	5700.0205	0.00036	5700.0182	0.00032
-30	120	5700.011	0.00019	5700.0115	0.00020	5700.0103	0.00018	5700.0102	0.00018

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5700.0051	0.00009	5700.0056	0.00010	5700.009	0.00016	5700.0095	0.00017
	120	5700.0054	0.00009	5700.0052	0.00009	5700.0082	0.00014	5700.0098	0.00017
	102	5700.0043	0.00008	5700.0044	0.00008	5700.0083	0.00015	5700.0097	0.00017

Test Mode B

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	120	5699.9772	-0.00040	5699.979	-0.00037	5699.9783	-0.00038	5699.9774	-0.00040
40	120	5699.991	-0.00016	5699.9894	-0.00019	5699.9898	-0.00018	5699.9913	-0.00015
30	120	5700.0104	0.00018	5700.0071	0.00012	5700.0105	0.00018	5700.0104	0.00018
20	120	5699.9981	-0.00003	5699.995	-0.00009	5699.9936	-0.00011	5699.9937	-0.00011
10	120	5699.9813	-0.00033	5699.9778	-0.00039	5699.9784	-0.00038	5699.9769	-0.00041
0	120	5700.0241	0.00042	5700.0291	0.00051	5700.0281	0.00049	5700.0242	0.00042
-10	120	5699.9803	-0.00035	5699.978	-0.00039	5699.9797	-0.00036	5699.9806	-0.00034
-20	120	5700.009	0.00016	5700.0105	0.00018	5700.0084	0.00015	5700.0112	0.00020
-30	120	5700.0131	0.00023	5700.0122	0.00021	5700.0164	0.00029	5700.0165	0.00029

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5699.9979	-0.00004	5699.995	-0.00009	5699.9942	-0.00010	5699.9932	-0.00012
	120	5699.9981	-0.00003	5699.995	-0.00009	5699.9936	-0.00011	5699.9937	-0.00011
	102	5699.9974	-0.00005	5699.995	-0.00009	5699.9941	-0.00010	5699.9932	-0.00012

Test Mode C

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	120	5700.0233	0.00041	5700.0234	0.00041	5700.0239	0.00042	5700.0236	0.00041
40	120	5700.0187	0.00033	5700.018	0.00032	5700.0182	0.00032	5700.0175	0.00031
30	120	5700.0198	0.00035	5700.0214	0.00038	5700.0226	0.00040	5700.0245	0.00043
20	120	5700.0017	0.00003	5700.0008	0.00001	5699.999	-0.00002	5700.0034	0.00006
10	120	5700.0188	0.00033	5700.0161	0.00028	5700.0151	0.00026	5700.0153	0.00027
0	120	5700.0004	0.00001	5699.9977	-0.00004	5699.9989	-0.00002	5699.9988	-0.00002
-10	120	5699.9735	-0.00046	5699.9747	-0.00044	5699.9772	-0.00040	5699.9756	-0.00043
-20	120	5700.0107	0.00019	5700.0128	0.00022	5700.012	0.00021	5700.0116	0.00020
-30	120	5700.0081	0.00014	5700.007	0.00012	5700.0033	0.00006	5700.005	0.00009

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5700.0016	0.00003	5700.0007	0.00001	5699.9981	-0.00003	5700.0039	0.00007
	120	5700.0017	0.00003	5700.0008	0.00001	5699.999	-0.00002	5700.0034	0.00006
	102	5700.0025	0.00004	5700.0016	0.00003	5699.9979	-0.00004	5700.0045	0.00008

Test Mode D

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	120	5700.0216	0.00038	5700.0197	0.00035	5700.0237	0.00042	5700.0222	0.00039
40	120	5699.9758	-0.00042	5699.9804	-0.00034	5699.9783	-0.00038	5699.9785	-0.00038
30	120	5699.9732	-0.00047	5699.9736	-0.00046	5699.9751	-0.00044	5699.9713	-0.00050
20	120	5699.9924	-0.00013	5699.9913	-0.00015	5699.9929	-0.00012	5699.9913	-0.00015
10	120	5700.0105	0.00018	5700.0137	0.00024	5700.0121	0.00021	5700.0102	0.00018
0	120	5700.0263	0.00046	5700.0236	0.00041	5700.0267	0.00047	5700.0272	0.00048
-10	120	5700.0185	0.00032	5700.0152	0.00027	5700.0173	0.00030	5700.0196	0.00034
-20	120	5700.0198	0.00035	5700.0171	0.00030	5700.0172	0.00030	5700.0161	0.00028
-30	120	5700.0284	0.00050	5700.0284	0.00050	5700.0288	0.00051	5700.0264	0.00046

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5699.9922	-0.00014	5699.9919	-0.00014	5699.9924	-0.00013	5699.9919	-0.00014
	120	5699.9924	-0.00013	5699.9913	-0.00015	5699.9929	-0.00012	5699.9913	-0.00015
	102	5699.9921	-0.00014	5699.9915	-0.00015	5699.9924	-0.00013	5699.9923	-0.00014

Test Mode E

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	120	5699.9783	-0.00038	5699.9789	-0.00037	5699.9758	-0.00042	5699.9744	-0.00045
40	120	5699.9896	-0.00018	5699.9851	-0.00026	5699.9852	-0.00026	5699.9897	-0.00018
30	120	5700.0235	0.00041	5700.0243	0.00043	5700.0245	0.00043	5700.0267	0.00047
20	120	5699.9833	-0.00029	5699.9802	-0.00035	5699.9838	-0.00028	5699.9799	-0.00035
10	120	5699.9719	-0.00049	5699.9711	-0.00051	5699.9741	-0.00045	5699.9711	-0.00051
0	120	5699.9862	-0.00024	5699.9891	-0.00019	5699.9892	-0.00019	5699.9894	-0.00019
-10	120	5699.9854	-0.00026	5699.9858	-0.00025	5699.9878	-0.00021	5699.9891	-0.00019
-20	120	5700.0074	0.00013	5700.0057	0.00010	5700.0059	0.00010	5700.0038	0.00007
-30	120	5700.0068	0.00012	5700.0082	0.00014	5700.006	0.00011	5700.0091	0.00016

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5699.984	-0.00028	5699.9797	-0.00036	5699.9835	-0.00029	5699.9794	-0.00036
	120	5699.9833	-0.00029	5699.9802	-0.00035	5699.9838	-0.00028	5699.9799	-0.00035
	102	5699.9834	-0.00029	5699.9806	-0.00034	5699.984	-0.00028	5699.9805	-0.00034

Test Mode F

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	120	5700.0197	0.00035	5700.0173	0.00030	5700.0195	0.00034	5700.0208	0.00036
40	120	5700.0187	0.00033	5700.0159	0.00028	5700.0161	0.00028	5700.0173	0.00030
30	120	5700.0256	0.00045	5700.0227	0.00040	5700.023	0.00040	5700.0257	0.00045
20	120	5700.0215	0.00038	5700.0225	0.00039	5700.0235	0.00041	5700.0223	0.00039
10	120	5700.0107	0.00019	5700.0095	0.00017	5700.011	0.00019	5700.0109	0.00019
0	120	5700.0044	0.00008	5700.0023	0.00004	5700.0026	0.00005	5700.0024	0.00004
-10	120	5699.9721	-0.00049	5699.9768	-0.00041	5699.9737	-0.00046	5699.9736	-0.00046
-20	120	5700.0141	0.00025	5700.0171	0.00030	5700.016	0.00028	5700.0157	0.00028
-30	120	5699.9924	-0.00013	5699.9895	-0.00018	5699.9904	-0.00017	5699.9926	-0.00013

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5700.0205	0.00036	5700.0217	0.00038	5700.023	0.00040	5700.0216	0.00038
	120	5700.0215	0.00038	5700.0225	0.00039	5700.0235	0.00041	5700.0223	0.00039
	102	5700.0225	0.00039	5700.0222	0.00039	5700.0231	0.00041	5700.0212	0.00037

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

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