FCC Test Report

Report No.: RF170609C20-1

FCC ID: QXO-AP3915E

Test Model: AP3915e

Series Model: AP7632 (refer to item 3.1 for more details)

Received Date: Jun. 09, 2017

Test Date: Jun. 09 ~ Aug. 09, 2017

Issued Date: Aug. 09, 2017

Applicant: Extreme Networks, Inc.

Address: 6480 VIA DEL ORO SAN JOSE CA 95119 USA

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.)

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

Table of Contents

Release Control Record **4**

1 Certificate of Conformity **5**

2 Summary of Test Results **6**

2.1 Measurement Uncertainty 6
2.2 Modification Record 6

3 General Information **7**

3.1 General Description of EUT 7
3.2 Description of Test Modes 17
3.2.1 Test Mode Applicability and Tested Channel Detail 18
3.3 Duty Cycle of Test Signal 21
3.4 Description of Support Units 27
3.4.1 Configuration of System under Test 28
3.5 General Description of Applied Standards 29

4 Test Types and Results **30**

4.1 Radiated Emission and Bandedge Measurement 30
4.1.1 Limits of Radiated Emission and Bandedge Measurement 30
4.1.2 Test Instruments 31
4.1.3 Test Procedures 32
4.1.4 Deviation from Test Standard 32
4.1.5 Test Setup 33
4.1.6 EUT Operating Conditions 34
4.1.7 Test Results 35
4.2 Conducted Emission Measurement 135
4.2.1 Limits of Conducted Emission Measurement 135
4.2.2 Test Instruments 135
4.2.3 Test Procedures 136
4.2.4 Deviation from Test Standard 136
4.2.5 Test Setup 136
4.2.6 EUT Operating Conditions 136
4.2.7 Test Results 137
4.3 Transmit Power Measurement 157
4.3.1 Limits of Transmit Power Measurement 157
4.3.2 Test Setup 157
4.3.3 Test Instruments 157
4.3.4 Test Procedure 158
4.3.5 Deviation from Test Standard 158
4.3.6 EUT Operating Conditions 158
4.3.7 Test Result 159
4.4 Occupied Bandwidth Measurement 175
4.4.1 Test Setup 175
4.4.2 Test Instruments 175
4.4.3 Test Procedure 175
4.4.4 Test Result 176
4.5 Peak Power Spectral Density Measurement 188
4.5.1 Limits of Peak Power Spectral Density Measurement 188
4.5.2 Test Setup 188
4.5.3 Test Instruments 188
4.5.4 Test Procedures 188
4.5.5 Deviation from Test Standard 189
4.5.6 EUT Operating Conditions 189
4.5.7 Test Results 190
4.6 Frequency Stability 219
4.6.1 Limits of Frequency Stability Measurement 219

4.6.2 Test Setup 219
4.6.3 Test Instruments 219
4.6.4 Test Procedure 219
4.6.5 Deviation from Test Standard 219
4.6.6 EUT Operating Condition 219
4.6.7 Test Results 220
4.7 6dB Bandwidth Measurement 226
4.7.1 Limits of 6dB Bandwidth Measurement 226
4.7.2 Test Setup 226
4.7.3 Test Instruments 226
4.7.4 Test Procedure 226
4.7.5 Deviation from Test Standard 226
4.7.6 EUT Operating Condition 226
4.7.7 Test Results 227

5 Pictures of Test Arrangements 239

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band) 240

Appendix – Information on the Testing Laboratories 255

Release Control Record

Issue No.	Description	Date Issued
RF170609C20-1	Original release.	Aug. 09, 2017

1 Certificate of Conformity

Product: Wireless 802.11 a/ac+b/g/n Indoor Access Point

Brand: Extreme Networks

Test Model: AP3915e

Series Model: AP7632 (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: Extreme Networks, Inc.

Test Date: Jun. 09 ~ Aug. 09, 2017

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 : Celine Chou , **Date:** Aug. 09, 2017
Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Aug. 09, 2017
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 -4.89dB at 0.47000MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.1dB at 5150.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connectors are RP-SMA Male, N Male, RPSMA and Fixed N-Male Std polarity not a standard connector.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.

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	2.94 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	Wireless 802.11 a/ac+b/g/n Indoor Access Point
Brand	Extreme Networks
Test Model	AP3915e
Series Model	AP7632
Model Difference	Refer to note for more details
Sample Status	Engineering sample
Power Supply Rating	12Vdc from adapter 54Vdc from POE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	5180~5240MHz, 5745~5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	ML-2452-APA2-01, ML-2452-APA2-02 and ML-2452-HPA5-036 Ant.: CDD Mode: 5180~5240MHz: 355.022mW 5745~5825MHz: 382.663mW Beamforming Mode: 5180~5240MHz: 177.419mW 5745~5825MHz: 191.426Mw ML-2452-HPAG4A6-01 Ant.: CDD Mode: 5180~5240MHz: 374.495mW 5745~5825MHz: 371.702mW Beamforming Mode: 5180~5240MHz: 187.068mW 5745~5825MHz: 185.780mW

Output Power	ML-2452-HPA6M4-S36 Ant.: CDD Mode: 5180~5240MHz: 374.495mW 5745~5825MHz: 371.702mW Beamforming Mode: 5180~5240MHz: 187.068mW 5745~5825MHz: 185.780mW ML-2452-PNL9M3-036 Ant.: CDD Mode: 5180~5240MHz: 320.793mW 5745~5825MHz: 335.324mW Beamforming Mode: 5180~5240MHz: 320.793mW 5745~5825MHz: 335.324mW ML-2452-PNL6M3-N36, ML-2452-PNA5-01R and ML-2452-PNA7-01R Ant.: CDD Mode: 5180~5240MHz: 245.252mW 5745~5825MHz: 333.341mW Beamforming Mode: 5180~5240MHz: 122.744mW 5745~5825MHz: 162.930mW ML-2452-PTA2M2-036 and ML-2452-PTA4M4-036 Ant.: CDD Mode: 5180~5240MHz: 374.632mW 5745~5825MHz: 382.259mW Beamforming Mode: 5180~5240MHz: 187.499mW 5745~5825MHz: 190.985mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Cable Supplied	NA

Note:

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

Modulation Mode	TX Function	Beamforming
802.11a	2TX	Not Support
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

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

2. All models are listed as below. Model: AP3915e was chosen for final test.

Brand	Model	Difference
Extreme Networks	AP3915e	All models are electrically identical, only the cover printing is different.
	AP7632	

3. The EUT consumes power from the following adapter and POE. (Support unit only)

Adapter	
Brand	Powertron Electronics Corp.
Model	PA1024-120IB200
Input Power	100-240Vac, 50-60Hz, 0.6A.
Output Power	12Vdc, 2A, 24W Max
Power Line	1.5m power cable with one core attached on adapter

POE	
Brand	EnGenius
Model	EPA5006GP
Input Power	100-240Vac, 50-60Hz, 0.8A
Output Power	54Vdc, 0.6A Pin 4, 5: 54Vdc Pin 7, 8: Return

4. The following antennas were provided to the EUT.

No.	Function	Type	Manufacturer/ Vendor	Model	Gain (dBi)		Connector
					2.4GHz Band	5GHz Band	
1	WLAN	Dipole	Wha Yu	ML-2452-APA2-01	3.17	4.85	RP-SMA Male
2	WLAN	Dipole	Wha Yu	ML-2452-APA2-02	3	5	RP-SMA Male
3	WLAN	Dipole	Laird	ML-2452-HPA5-036	3	5	RP-SMA Male
4	WLAN	Dipole	Laird	ML-2452-HPAG4A6-01	4	7.3	N Male
5	WLAN	Dipole	Ventev	ML-2452-HPA6M4-S36	6.0	6.0	RP-SMA
6	WLAN	Panel	Laird	ML-2452-PNL9M3-036	11.0	10.7	RP-SMA Male
7	WLAN	Panel	Laird	ML-2452-PNL6M3-N36	6	6	N Male
8	WLAN	Panel	Laird	ML-2452-PNA5-01R	5.5	6	N Male
9	WLAN & BT LE & Zigbee	Panel	Laird	ML-2452-PNA7-01R	7.8	10.7	N Male
10	WLAN	Patch	Laird	ML-2452-PTA2M2-036	4	5	RP-SMA Male
11	WLAN	Patch	Laird	ML-2452-PTA4M4-036	5	6.6	RP-SMA Male
12	BT LE & Zigbee	Omni	Laird	ML-2499-HPA8-01	8	-	Fixed N-Male Std polarity

* ML-2452-PNL9M3-036 Ant. was cross-polarized antenna.

5. Power Setting as below.

ML-2452-APA2-01, ML-2452-APA2-02 and ML-2452-HPA5-036 Ant. (same power setting):

CDD Mode						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	19	19	CH 38	16	CH 42	15.5
CH 40	23	23	CH 46	22.5	CH 155	22.5
CH 48	23	23	CH 151	23		
CH 149	23	23	CH 159	23		
CH 157	23	23				
CH 165	23	23				

Beamforming Mode					
	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	19	CH 38	16	CH 42	15.5
CH 40	23	CH 46	22.5	CH 155	22.5
CH 48	23	CH 151	23		
CH 149	23	CH 159	23		
CH 157	23				
CH 165	23				

ML-2452-HPAG4A6-01 Ant. (individual power setting):

CDD Mode						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	20	20	CH 38	18	CH 42	17.5
CH 40	22	22	CH 46	23	CH 155	21
CH 48	22	22	CH 151	23		
CH 149	23	23	CH 159	23		
CH 157	23	23				
CH 165	23	23				

Beamforming Mode					
	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	20	CH 38	18	CH 42	17.5
CH 40	22	CH 46	23	CH 155	21
CH 48	22	CH 151	23		
CH 149	23	CH 159	23		
CH 157	23				
CH 165	23				

ML-2452-HPA6M4-S36 Ant. (individual power setting):

CDD Mode						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	20	20	CH 38	18	CH 42	17.5
CH 40	23	23	CH 46	23	CH 155	21
CH 48	23	23	CH 151	23		
CH 149	23	23	CH 159	23		
CH 157	23	23				
CH 165	23	23				

Beamforming Mode					
	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	20	CH 38	18	CH 42	17.5
CH 40	23	CH 46	23	CH 155	21
CH 48	23	CH 151	23		
CH 149	23	CH 159	23		
CH 157	23				
CH 165	23				

ML-2452-PNL9M3-036 Ant. (individual power setting):

CDD Mode						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	19.5	18.5	CH 38	15.5	CH 42	15.5
CH 40	20.5	21.5	CH 46	22.5	CH 155	21
CH 48	20.5	21	CH 151	22.5		
CH 149	23	23	CH 159	22.5		
CH 157	23	23				
CH 165	23	23				

Beamforming Mode					
	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	18.5	CH 38	15.5	CH 42	15.5
CH 40	21.5	CH 46	22.5	CH 155	21
CH 48	21	CH 151	22.5		
CH 149	23	CH 159	22.5		
CH 157	23				
CH 165	23				

ML-2452-PNL6M3-N36, ML-2452-PNA5-01R and ML-2452-PNA7-01R Ant. (same power setting):

CDD Mode						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	18	18	CH 38	15.5	CH 42	15
CH 40	19.5	19	CH 46	21	CH 155	20.5
CH 48	18.5	19	CH 151	22.5		
CH 149	23	23	CH 159	22.5		
CH 157	23	23				
CH 165	23	23				

Beamforming Mode					
	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	18	CH 38	15.5	CH 42	15
CH 40	19	CH 46	21	CH 155	20.5
CH 48	19	CH 151	22.5		
CH 149	23	CH 159	22.5		
CH 157	23				
CH 165	23				

ML-2452-PTA2M2-036 and ML-2452-PTA4M4-036 Ant. (same power setting):

CDD Mode						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	20	20	CH 38	16.5	CH 42	17
CH 40	23	23	CH 46	22.5	CH 155	21.5
CH 48	23	23	CH 151	23		
CH 149	23	23	CH 159	23		
CH 157	23	23				
CH 165	23	23				

Beamforming Mode					
	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 36	20	CH 38	16.5	CH 42	17
CH 40	23	CH 46	22.5	CH 155	21.5
CH 48	23	CH 151	23		
CH 149	23	CH 159	23		
CH 157	23				
CH 165	23				

6. 2.4GHz & 5GHz & BT LE or 2.4GHz & 5GHz & Zigbee technology can transmit at same time. BT LE and Zigbee cannot transmit simultaneously.
7. Spurious emission of the simultaneous operation (2.4GHz & 5GHz & BT LE or 2.4GHz & 5GHz & Zigbee) has been evaluated and no non-compliance was found.

3.2 Description of Test Modes

5180~5240MHz:

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

5745~5825MHz:

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

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

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 ML-2452-APA2-02 Ant. power by adapter
B	√	√	√	√	EUT with ML-2452-APA2-02 Ant. power by POE
C	-	√	√	-	EUT with ML-2452-HPAG4A6-01 Ant. power by adapter
D	√	√	√	√	EUT with ML-2452-HPAG4A6-01 Ant. power by POE
E	-	-	-	√	EUT with ML-2452-HPA6M4-S36 Ant. power by POE
F	-	√	√	-	EUT with ML-2452-PNL9M3-036 Ant. power by adapter
G	√	√	√	√	EUT with ML-2452-PNL9M3-036 Ant. power by POE
H	-	√	√	-	EUT with ML-2452-PNA7-01R Ant. power by adapter
I	√	√	√	√	EUT with ML-2452-PNA7-01R Ant. power by POE
J	-	√	√	-	EUT with ML-2452-PTA4M4-036 Ant. power by adapter
K	√	√	√	√	EUT with ML-2452-PTA4M4-036 Ant. power by POE

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:
1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane for test mode I and Z-plane for test mode B, D, G, K**.
2. "-" means no effect.

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B, D, G, I, K	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B, D, G, I, K	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B, C, D, F, G, H, I, J, K	802.11a	5180-5240	36 to 48	36	OFDM	6.0
	802.11a	5745-5825	149 to 165		OFDM	6.0

Power Line Conducted Emission Test:

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

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B, C, D, F, G, H, I, J, K	802.11a	5180-5240	36 to 48	36	OFDM	6.0
	802.11a	5745-5825	149 to 165		OFDM	6.0

Transmit Power 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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
CDD Mode						
B, D, E, G, I, K	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B, D, E, G, I, K	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3
Beamforming Mode						
B, D, E, G, I, K	802.11n (HT20)	5180-5240	36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B, D, E, G, I, K	802.11n (HT20)	5745-5825	149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Peak Power Spectral Density, Bandwidth and Frequency Stability 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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B, D, E, G, I, K	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B, D, E, G, I, K	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE≥1G	28 deg. C, 68% RH 22 deg. C, 67% RH 25 deg. C, 69% RH 24 deg. C, 66% RH 26 deg. C, 69% RH 27 deg. C, 68% RH	120Vac, 60Hz	James Chang Jones Chang
RE<1G	23 deg. C, 64% RH 27 deg. C, 66% RH	120Vac, 60Hz 54Vdc	Jones Chang Willy Cheng
PLC	25 deg. C, 75% RH	120Vac, 60Hz 54Vdc	Luis Lee
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Edward Lin Ted Chang Cedric Wu

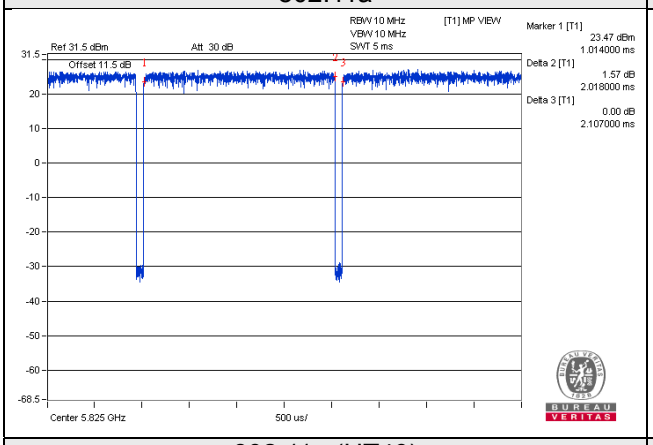
3.3 Duty Cycle of Test Signal

Test Mode B

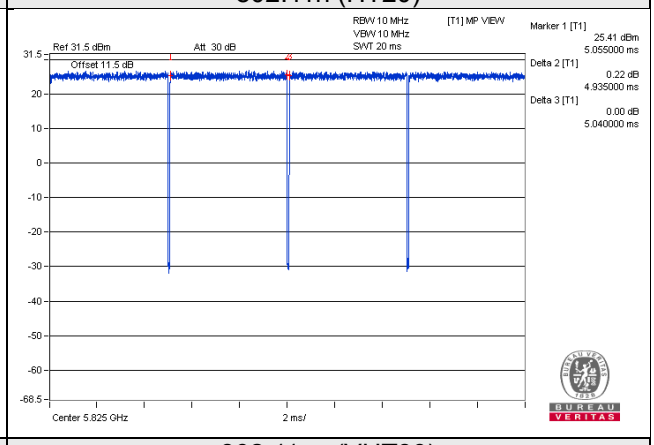
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = 2.018/2.107 = 0.958, Duty factor = 10 * log(1/0.958) = 0.19
802.11n (HT20): Duty cycle = 4.935/5.040 = 0.979, Duty factor = 10 * log(1/0.979) = 0.09
802.11n (HT40): Duty cycle = 2.397/2.502 = 0.958, Duty factor = 10 * log(1/0.958) = 0.19
802.11ac (VHT80): Duty cycle = 1.127/1.222 = 0.922, Duty factor = 10 * log(1/0.922) = 0.35

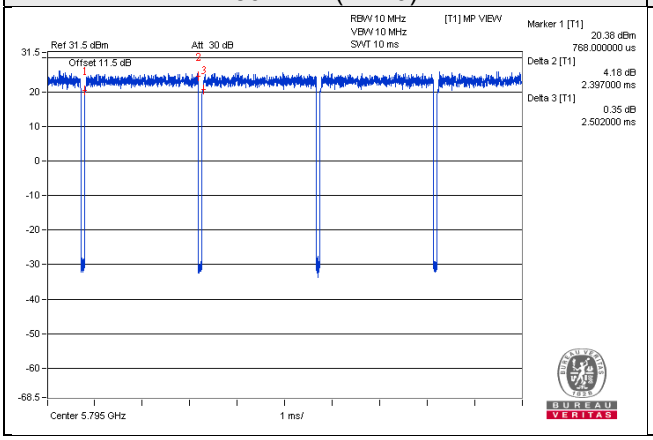
802.11a



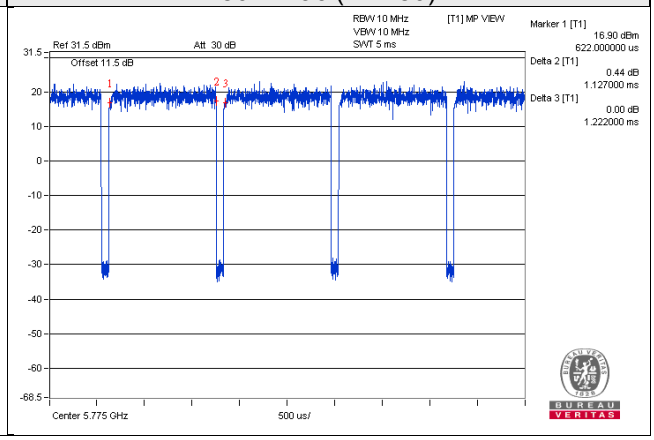
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

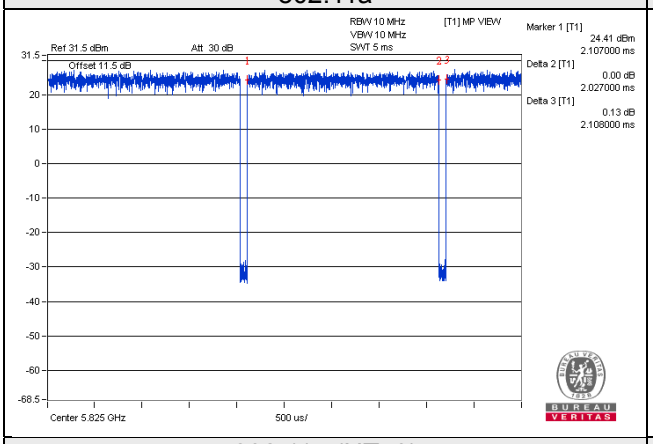


Test Mode D

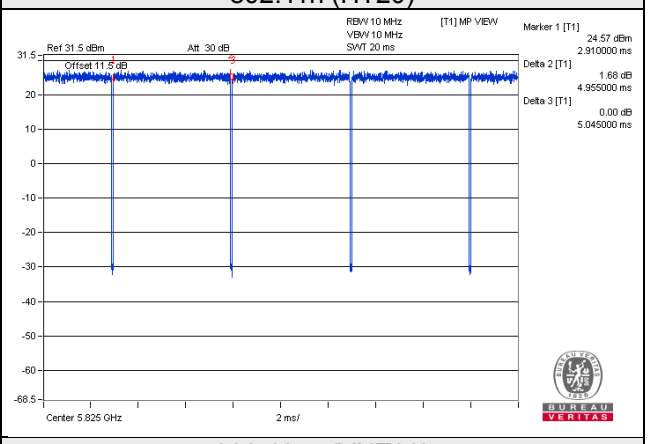
802.11a, 802.11n (HT40), 802.11ac (VHT80): Duty cycle of test signal is < 98%, duty factor is required.
802.11n (HT20): Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11a: Duty cycle = 2.027/2.108 = 0.962, Duty factor = 10 * log(1/0.962) = 0.17
802.11n (HT20): Duty cycle = 4.955/5.045 = 0.982
802.11n (HT40): Duty cycle = 2.405/2.505 = 0.960, Duty factor = 10 * log(1/0.960) = 0.18
802.11ac (VHT80): Duty cycle = 1.131/1.217 = 0.929, Duty factor = 10 * log(1/0.929) = 0.32

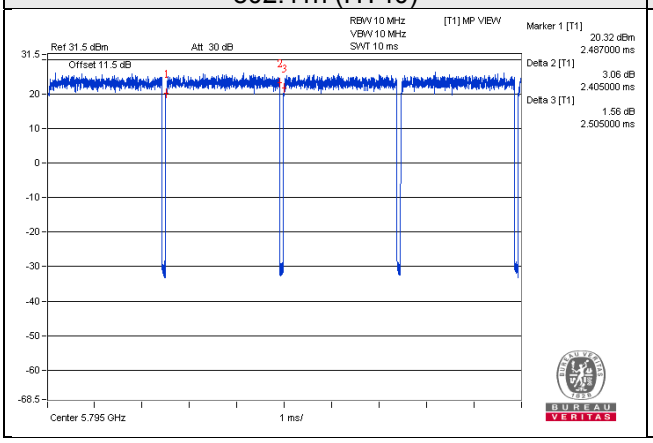
802.11a



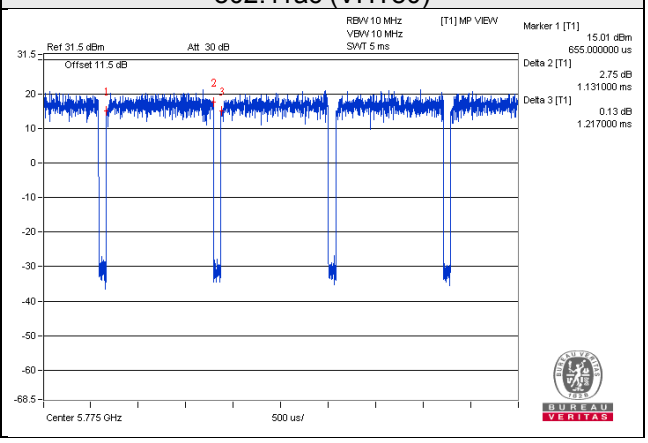
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

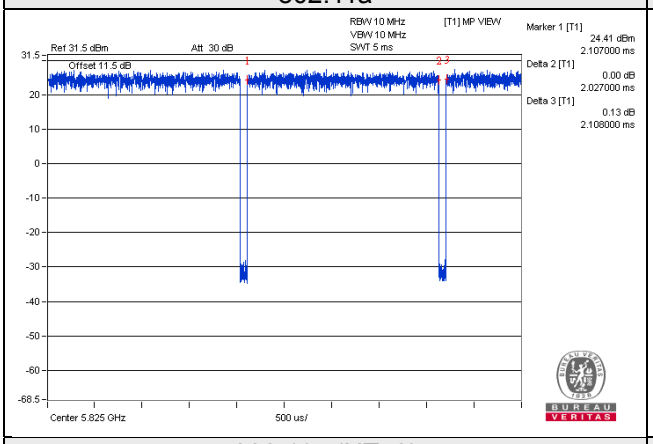


Test Mode E

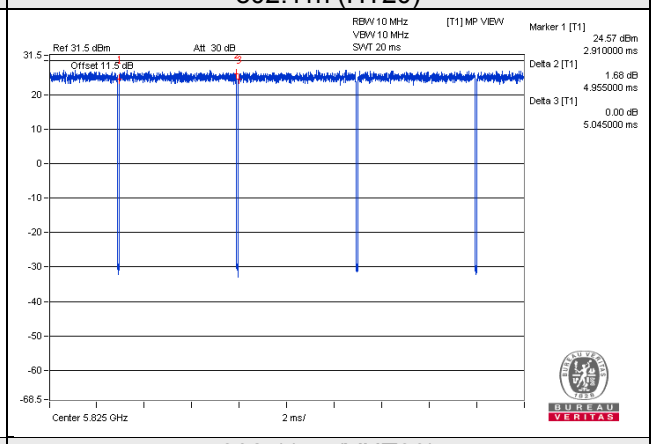
802.11a, 802.11n (HT40), 802.11ac (VHT80): Duty cycle of test signal is < 98%, duty factor is required.
802.11n (HT20): Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11a: Duty cycle = 2.027/2.108 = 0.962, Duty factor = 10 * log(1/0.962) = 0.17
802.11n (HT20): Duty cycle = 4.955/5.045 = 0.982
802.11n (HT40): Duty cycle = 2.405/2.505 = 0.960, Duty factor = 10 * log(1/0.960) = 0.18
802.11ac (VHT80): Duty cycle = 1.131/1.217 = 0.929, Duty factor = 10 * log(1/0.929) = 0.32

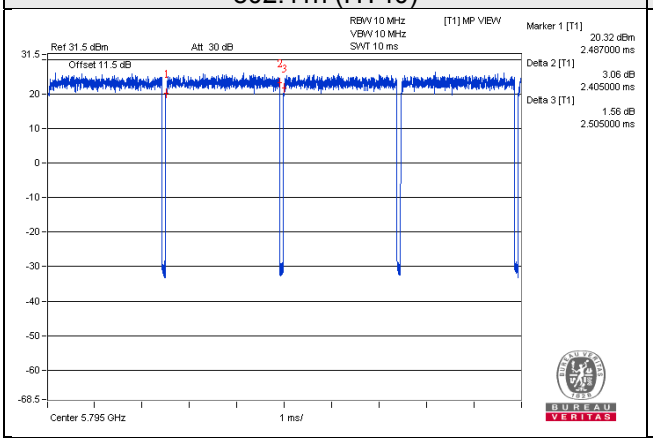
802.11a



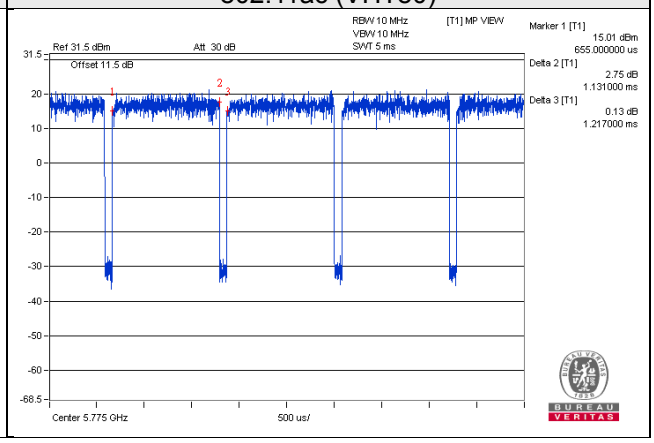
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

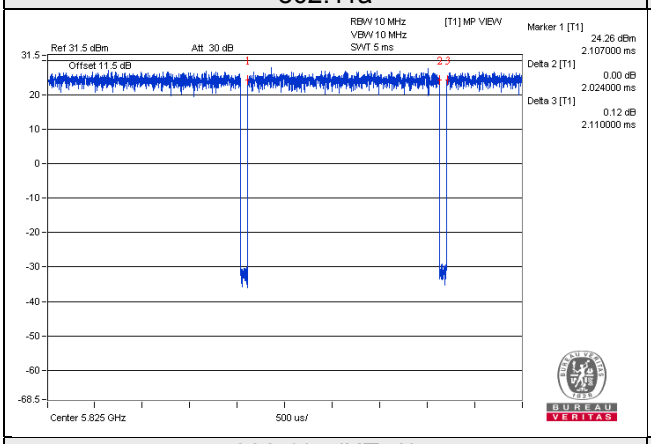


Test Mode G

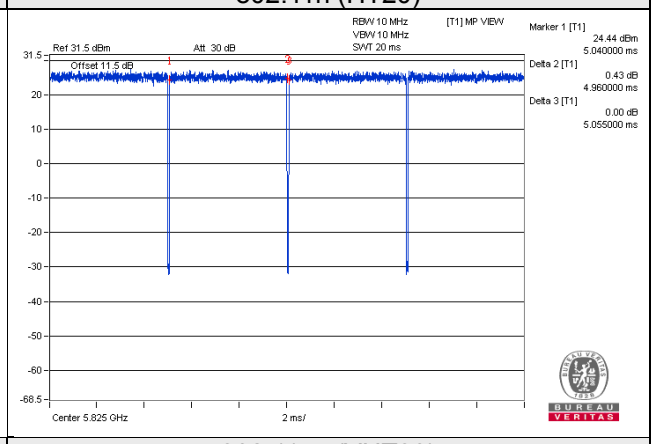
802.11a, 802.11n (HT40), 802.11ac (VHT80): Duty cycle of test signal is < 98%, duty factor is required.
802.11n (HT20): Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11a: Duty cycle = 2.024/2.110 = 0.959, Duty factor = 10 * log(1/0.959) = 0.18
802.11n (HT20): Duty cycle = 4.960/5.055 = 0.981
802.11n (HT40): Duty cycle = 2.403/2.500 = 0.961, Duty factor = 10 * log(1/0.961) = 0.17
802.11ac (VHT80): Duty cycle = 1.126/1.215 = 0.927, Duty factor = 10 * log(1/0.927) = 0.33

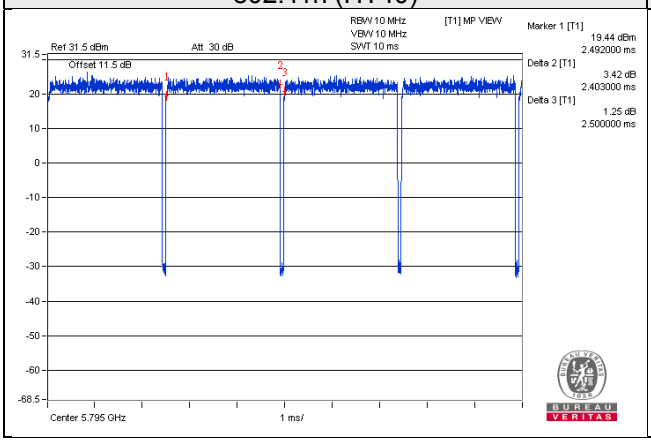
802.11a



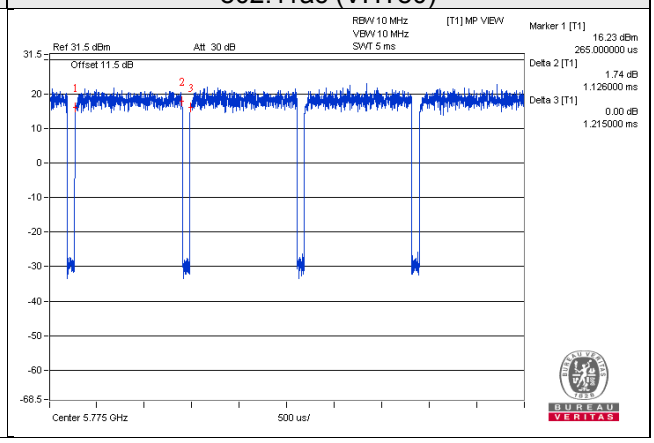
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

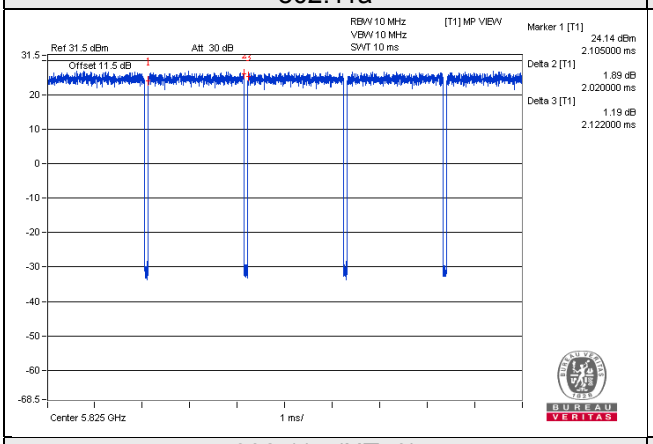


Test Mode I

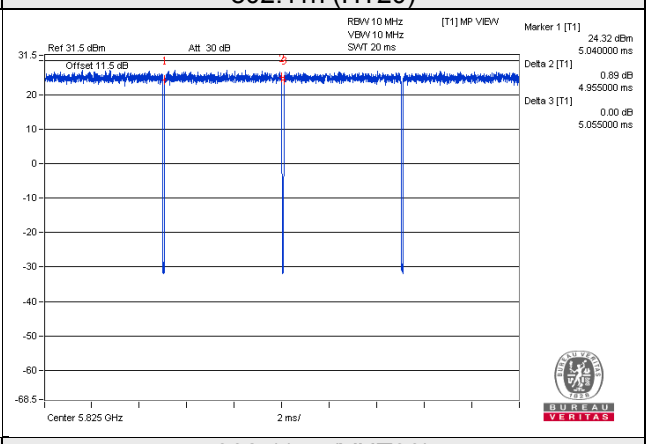
802.11a, 802.11n (HT40), 802.11ac (VHT80): Duty cycle of test signal is < 98%, duty factor is required.
802.11n (HT20): Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11a: Duty cycle = 2.020/2.122 = 0.952, Duty factor = 10 * log(1/0.952) = 0.21
802.11n (HT20): Duty cycle = 4.955/5.055 = 0.980
802.11n (HT40): Duty cycle = 2.410/2.495 = 0.966, Duty factor = 10 * log(1/0.966) = 0.15
802.11ac (VHT80): Duty cycle = 1.131/1.222 = 0.927, Duty factor = 10 * log(1/0.927) = 0.33

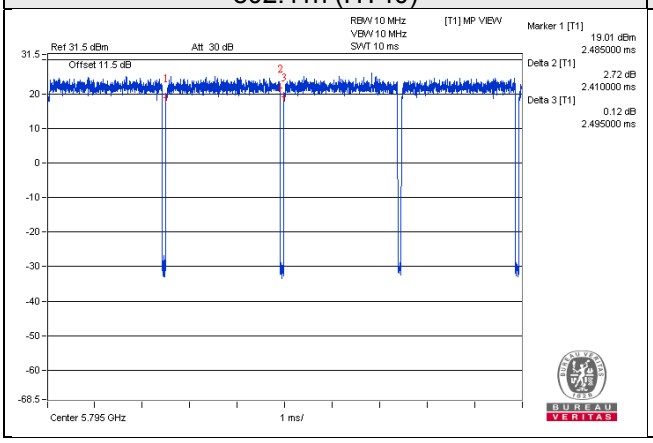
802.11a



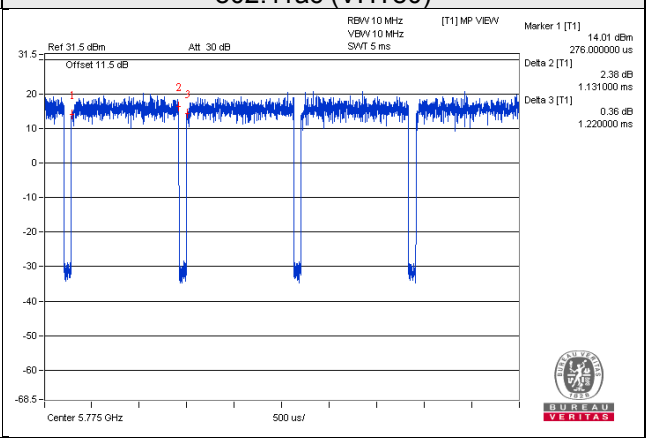
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

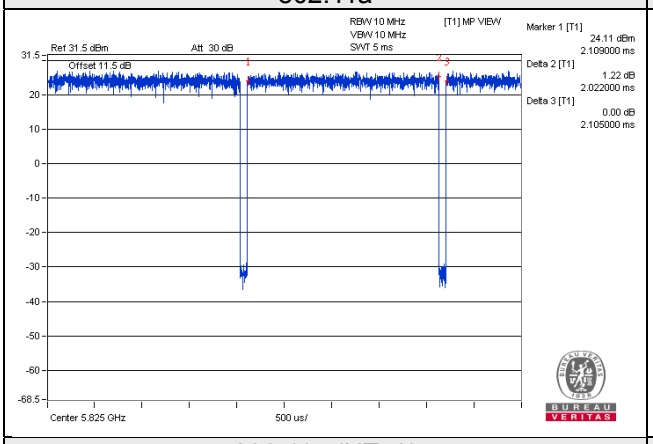


Test Mode K

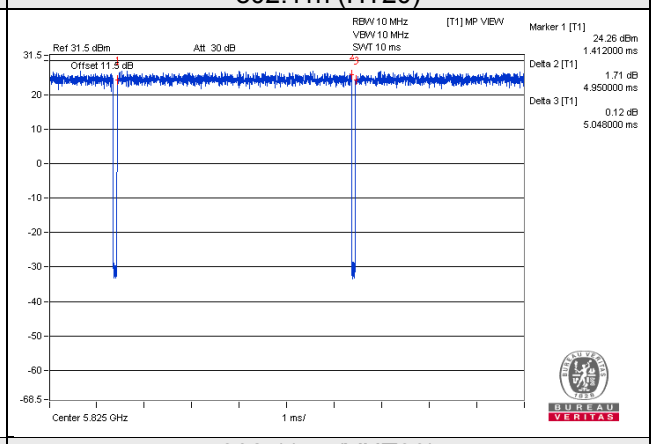
802.11a, 802.11n (HT40), 802.11ac (VHT80): Duty cycle of test signal is < 98%, duty factor is required.
802.11n (HT20): Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11a: Duty cycle = 2.022/2.105 = 0.961, Duty factor = 10 * log(1/0.961) = 0.17
802.11n (HT20): Duty cycle = 4.950/5.048 = 0.981
802.11n (HT40): Duty cycle = 2.407/2.495 = 0.965, Duty factor = 10 * log(1/0.965) = 0.16
802.11ac (VHT80): Duty cycle = 1.127/1.220 = 0.924, Duty factor = 10 * log(1/0.924) = 0.34

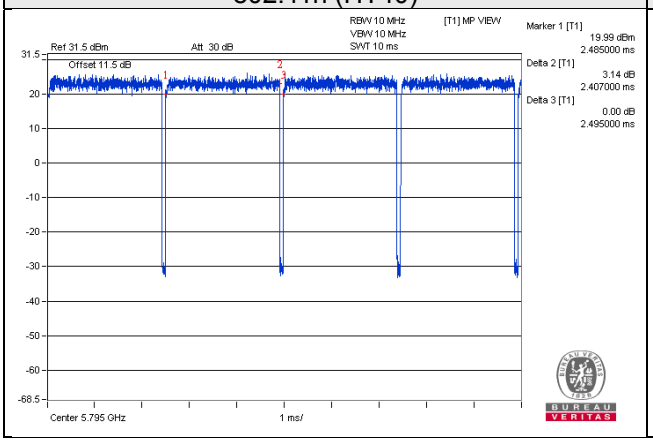
802.11a



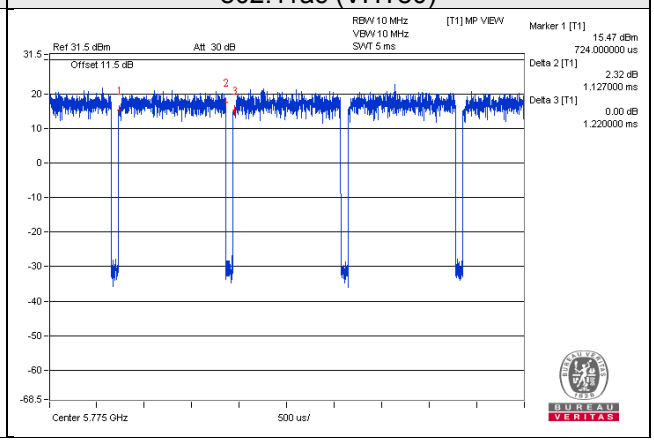
802.11n (HT20)



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.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	USB Flash	HP	v250W	10	FCC DoC Approved	-
C.	Adapter	Powertron Electronics Corp.	PA1024-120IB200	NA	NA	Provided by manufacturer
D.	POE	EnGenius	EPA5006GP	NA	NA	Provided by manufacturer

Note:

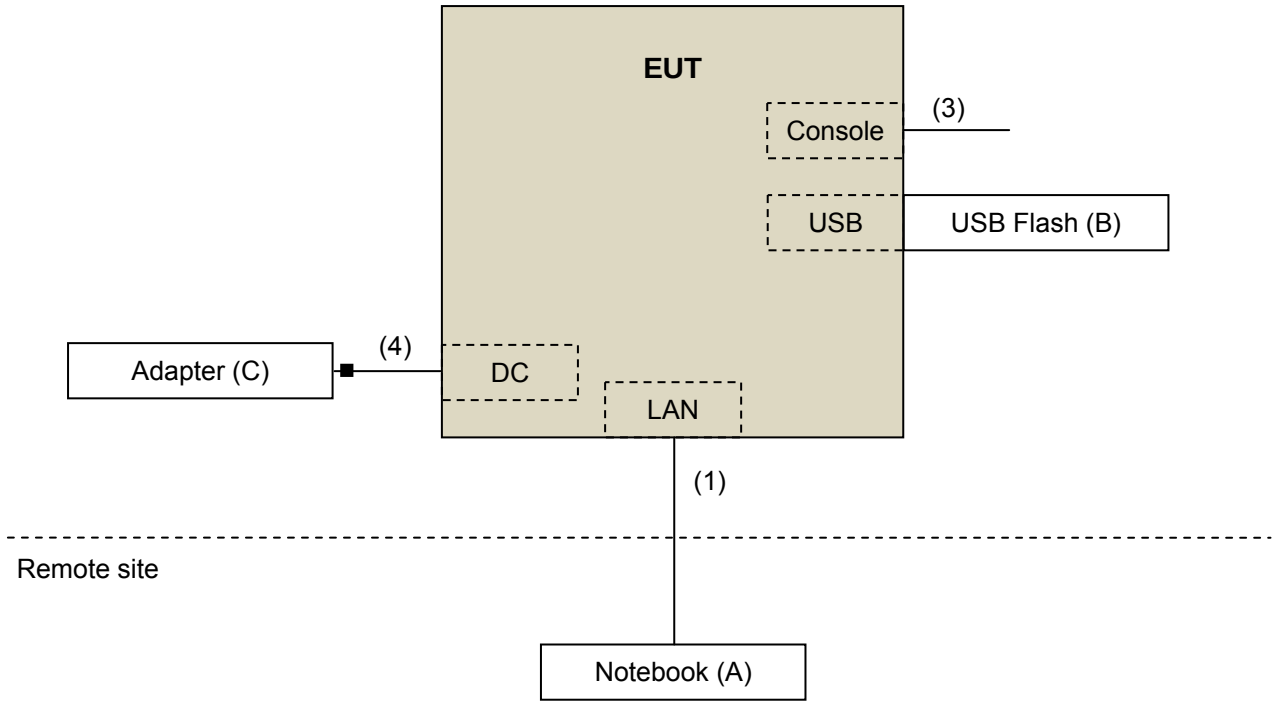
1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

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.	Console cable	1	1	N	0	Provided by manufacturer
4.	Power cable	1	1.5	N	1	Provided by manufacturer

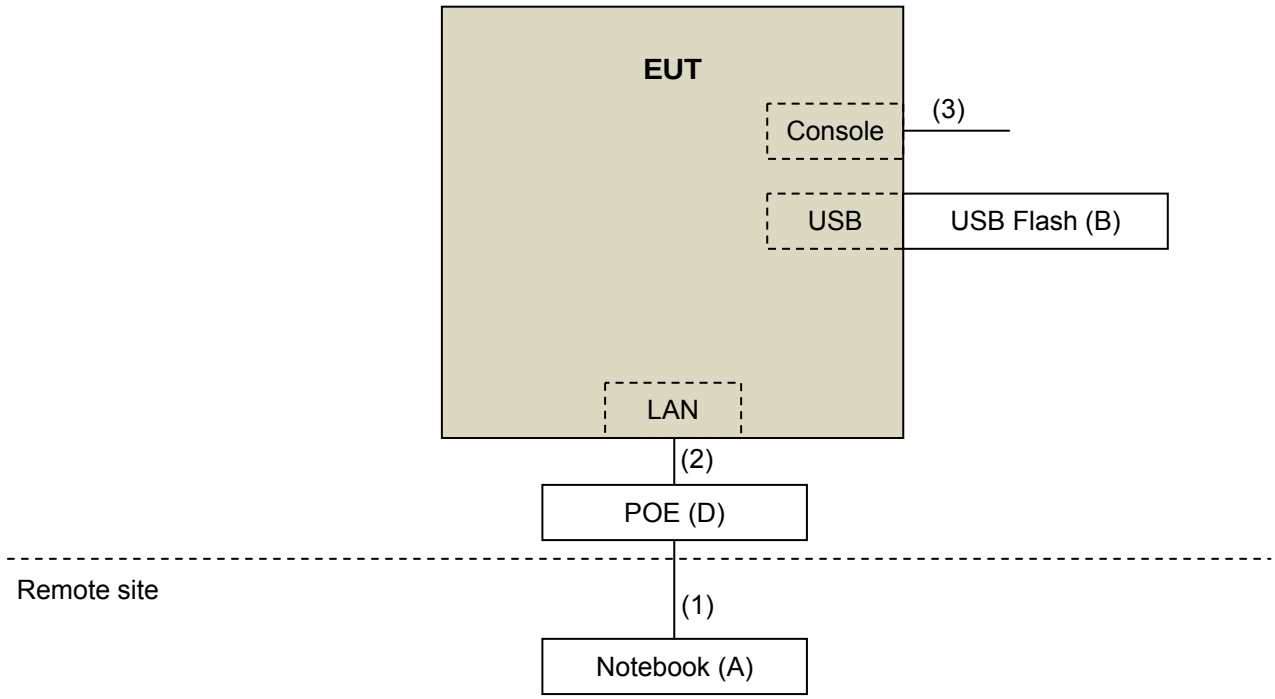
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

Adapter Mode



POE Mode



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 v01r04
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10:2013

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

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v01r04			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	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 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	3008A01922	Sep. 18, 2016	Sep. 17, 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
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 17, 2016	Oct. 16, 2017
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 08, 2017	Jun. 07, 2018

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 Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
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:

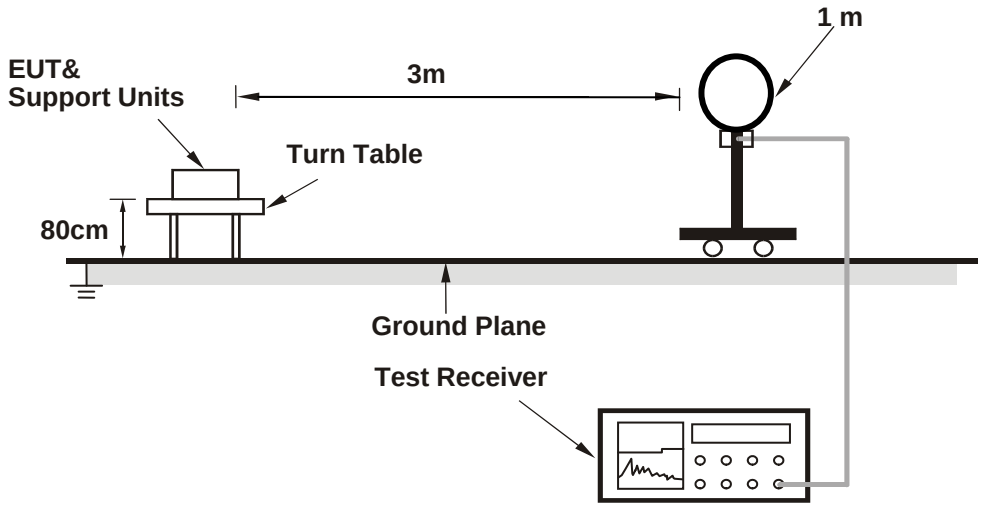
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

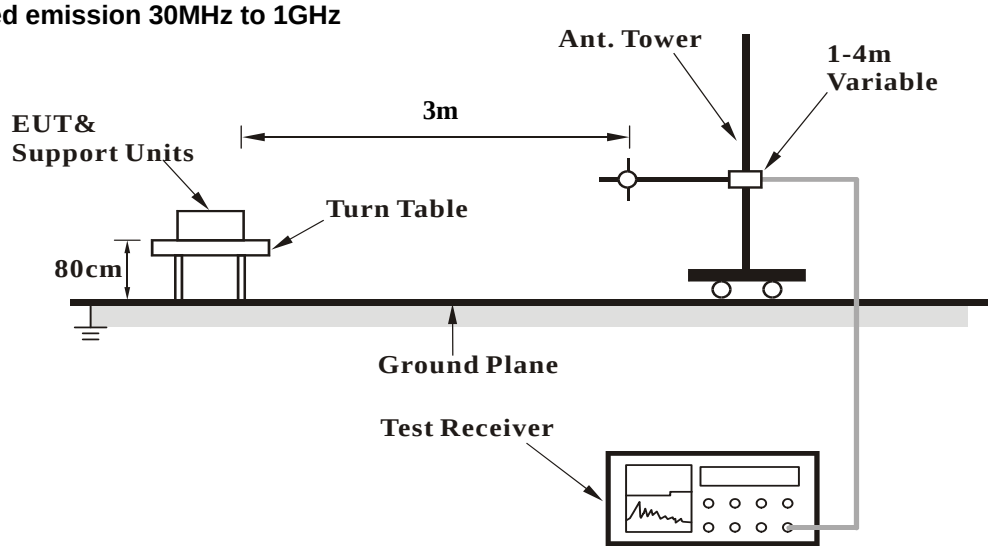
No deviation.

4.1.5 Test Setup

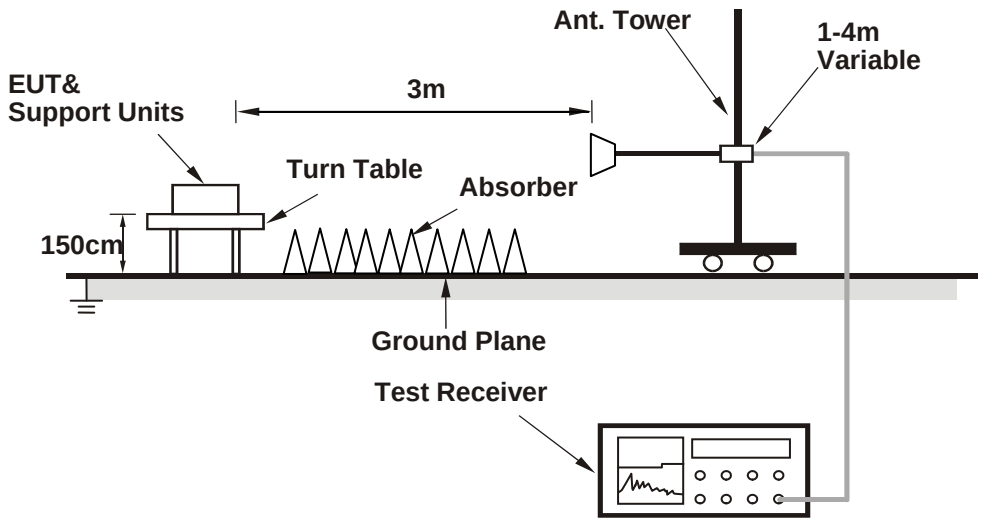
For Radiated emission below 30MHz



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".
e. The necessary accessories enable the system in full functions.

4.1.7 Test Results

Above 1GHz data:

Test Mode B

802.11a

CHANNEL	TX Channel 36	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	56.1 PK	74.0	-17.9	1.58 H	235	55.3	0.8
2	5150.00	42.9 AV	54.0	-11.1	1.58 H	235	42.1	0.8
3	*5180.00	102.6 PK			1.79 H	230	63.9	38.7
4	*5180.00	92.2 AV			1.79 H	230	53.5	38.7
5	#10360.00	59.0 PK	74.0	-15.0	1.97 H	238	46.3	12.7
6	#10360.00	45.0 AV	54.0	-9.0	1.97 H	238	32.3	12.7
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	5150.00	69.8 PK	74.0	-4.2	1.54 V	287	69.0	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.54 V	287	51.6	0.8
3	*5180.00	118.2 PK			1.65 V	294	79.5	38.7
4	*5180.00	107.7 AV			1.65 V	294	69.0	38.7
5	#10360.00	58.6 PK	74.0	-15.4	1.36 V	192	45.9	12.7
6	#10360.00	45.4 AV	54.0	-8.6	1.36 V	192	32.7	12.7

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 40	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	*5200.00	104.3 PK			1.15 H	114	65.6	38.7
2	*5200.00	93.5 AV			1.15 H	114	54.8	38.7
3	#10400.00	58.2 PK	74.0	-15.8	1.39 H	60	45.5	12.7
4	#10400.00	44.9 AV	54.0	-9.1	1.39 H	60	32.2	12.7
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	*5200.00	121.8 PK			1.51 V	296	83.1	38.7
2	*5200.00	111.1 AV			1.51 V	296	72.4	38.7
3	#10400.00	58.5 PK	74.0	-15.5	2.01 V	213	45.8	12.7
4	#10400.00	45.1 AV	54.0	-8.9	2.01 V	213	32.4	12.7

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 48	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	*5240.00	105.5 PK			1.88 H	222	66.7	38.8
2	*5240.00	95.1 AV			1.88 H	222	56.3	38.8
3	5350.00	56.1 PK	74.0	-17.9	1.68 H	253	55.0	1.1
4	5350.00	43.0 AV	54.0	-11.0	1.68 H	253	41.9	1.1
5	#10480.00	58.4 PK	74.0	-15.6	2.34 H	191	44.9	13.5
6	#10480.00	45.0 AV	54.0	-9.0	2.34 H	191	31.5	13.5
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	*5240.00	122.4 PK			1.60 V	295	83.6	38.8
2	*5240.00	111.7 AV			1.60 V	295	72.9	38.8
3	5350.00	58.4 PK	74.0	-15.6	1.65 V	292	57.3	1.1
4	5350.00	46.1 AV	54.0	-7.9	1.65 V	292	45.0	1.1
5	#10480.00	58.6 PK	74.0	-15.4	1.91 V	131	45.1	13.5
6	#10480.00	45.2 AV	54.0	-8.8	1.91 V	131	31.7	13.5

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.

CHANNEL	TX Channel 149	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	#5611.20	56.5 PK	68.2	-11.7	3.47 H	196	54.8	1.7
2	*5745.00	107.8 PK			3.47 H	196	67.9	39.9
3	*5745.00	97.3 AV			3.47 H	196	57.4	39.9
4	#5964.80	57.9 PK	68.2	-10.3	3.47 H	196	55.2	2.7
5	11490.00	60.1 PK	74.0	-13.9	2.41 H	331	45.6	14.5
6	11490.00	46.7 AV	54.0	-7.3	2.41 H	331	32.2	14.5
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	#5606.40	56.5 PK	68.2	-11.7	2.26 V	62	54.8	1.7
2	*5745.00	120.0 PK			2.26 V	62	80.1	39.9
3	*5745.00	109.8 AV			2.26 V	62	69.9	39.9
4	#5992.00	57.9 PK	68.2	-10.3	2.26 V	62	55.1	2.8
5	11490.00	60.8 PK	74.0	-13.2	2.63 V	255	46.3	14.5
6	11490.00	47.6 AV	54.0	-6.4	2.63 V	255	33.1	14.5

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.

CHANNEL	TX Channel 157	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	#5602.40	56.6 PK	68.2	-11.6	2.48 H	125	55.0	1.6
2	*5785.00	108.5 PK			2.48 H	125	68.4	40.1
3	*5785.00	98.2 AV			2.48 H	125	58.1	40.1
4	#5981.60	57.1 PK	68.2	-11.1	2.48 H	125	54.3	2.8
5	11570.00	60.1 PK	74.0	-13.9	2.01 H	253	45.8	14.3
6	11570.00	46.9 AV	54.0	-7.1	2.01 H	253	32.6	14.3
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	#5605.60	56.4 PK	68.2	-11.8	2.50 V	73	54.7	1.7
2	*5785.00	119.3 PK			2.50 V	73	79.2	40.1
3	*5785.00	109.1 AV			2.50 V	73	69.0	40.1
4	#5952.80	57.8 PK	68.2	-10.4	2.50 V	73	55.2	2.6
5	11570.00	60.4 PK	74.0	-13.6	2.13 V	281	46.1	14.3
6	11570.00	46.6 AV	54.0	-7.4	2.13 V	281	32.3	14.3

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.

CHANNEL	TX Channel 165	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	#5608.00	56.6 PK	68.2	-11.6	1.74 H	18	54.9	1.7
2	*5825.00	105.4 PK			1.74 H	18	65.2	40.2
3	*5825.00	95.0 AV			1.74 H	18	54.8	40.2
4	#5939.20	58.2 PK	68.2	-10.0	1.74 H	18	55.6	2.6
5	11650.00	60.4 PK	74.0	-13.6	2.15 H	193	46.0	14.4
6	11650.00	46.7 AV	54.0	-7.3	2.15 H	193	32.3	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.40	56.2 PK	68.5	-12.3	2.50 V	44	54.5	1.7
2	*5825.00	119.2 PK			2.50 V	44	79.0	40.2
3	*5825.00	109.0 AV			2.50 V	44	68.8	40.2
4	#5948.80	58.3 PK	68.2	-9.9	2.50 V	44	55.7	2.6
5	11650.00	60.6 PK	74.0	-13.4	2.31 V	289	46.2	14.4
6	11650.00	46.8 AV	54.0	-7.2	2.31 V	289	32.4	14.4

Remarks:

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 36	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	55.0 PK	74.0	-19.0	1.30 H	178	54.2	0.8
2	5150.00	42.2 AV	54.0	-11.8	1.30 H	178	41.4	0.8
3	*5180.00	101.5 PK			1.75 H	221	62.8	38.7
4	*5180.00	90.8 AV			1.75 H	221	52.1	38.7
5	#10360.00	59.0 PK	74.0	-15.0	1.46 H	135	46.3	12.7
6	#10360.00	44.7 AV	54.0	-9.3	1.46 H	135	32.0	12.7
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	5150.00	57.6 PK	74.0	-16.4	1.63 V	306	56.8	0.8
2	5150.00	52.8 AV	54.0	-1.2	1.63 V	306	52.0	0.8
3	*5180.00	118.9 PK			1.62 V	294	80.2	38.7
4	*5180.00	108.3 AV			1.62 V	294	69.6	38.7
5	#10360.00	58.8 PK	74.0	-15.2	1.45 V	166	46.1	12.7
6	#10360.00	45.2 AV	54.0	-8.8	1.45 V	166	32.5	12.7

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 40	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	*5200.00	103.3 PK			1.24 H	299	64.6	38.7
2	*5200.00	92.5 AV			1.24 H	299	53.8	38.7
3	#10400.00	58.0 PK	74.0	-16.0	1.58 H	243	45.3	12.7
4	#10400.00	44.4 AV	54.0	-9.6	1.58 H	243	31.7	12.7
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	*5200.00	122.1 PK			1.75 V	300	83.4	38.7
2	*5200.00	111.1 AV			1.75 V	300	72.4	38.7
3	#10400.00	59.6 PK	74.0	-14.4	2.13 V	162	46.9	12.7
4	#10400.00	45.3 AV	54.0	-8.7	2.13 V	162	32.6	12.7

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 48	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	*5240.00	102.7 PK			1.31 H	297	63.9	38.8
2	*5240.00	92.0 AV			1.31 H	297	53.2	38.8
3	5350.00	55.3 PK	74.0	-18.7	1.55 H	233	54.2	1.1
4	5350.00	42.3 AV	54.0	-11.7	1.55 H	233	41.2	1.1
5	#10480.00	58.6 PK	74.0	-15.4	1.68 H	241	45.1	13.5
6	#10480.00	44.5 AV	54.0	-9.5	1.68 H	241	31.0	13.5
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	*5240.00	122.6 PK			1.56 V	298	83.8	38.8
2	*5240.00	111.8 AV			1.56 V	298	73.0	38.8
3	5350.00	57.8 PK	74.0	-16.2	2.08 V	297	56.7	1.1
4	5350.00	46.0 AV	54.0	-8.0	2.08 V	297	44.9	1.1
5	#10480.00	59.0 PK	74.0	-15.0	1.73 V	261	45.5	13.5
6	#10480.00	45.2 AV	54.0	-8.8	1.73 V	261	31.7	13.5

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.

CHANNEL	TX Channel 149	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	#5620.00	56.5 PK	68.2	-11.7	3.88 H	195	54.8	1.7
2	*5745.00	107.4 PK			3.88 H	195	67.5	39.9
3	*5745.00	97.0 AV			3.88 H	195	57.1	39.9
4	#5948.80	59.1 PK	68.2	-9.1	3.88 H	195	56.5	2.6
5	11490.00	60.0 PK	74.0	-14.0	2.71 H	289	45.5	14.5
6	11490.00	46.7 AV	54.0	-7.3	2.71 H	289	32.2	14.5
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	#5648.96	56.5 PK	68.2	-11.7	2.28 V	71	54.8	1.7
2	*5745.00	120.4 PK			2.28 V	71	80.5	39.9
3	*5745.00	109.3 AV			2.28 V	71	69.4	39.9
4	#5960.67	57.9 PK	68.2	-10.3	2.28 V	71	55.3	2.6
5	11490.00	60.1 PK	74.0	-13.9	1.94 V	271	45.6	14.5
6	11490.00	47.0 AV	54.0	-7.0	1.94 V	271	32.5	14.5

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.

CHANNEL	TX Channel 157	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	#5604.80	55.9 PK	68.2	-12.3	2.70 H	127	54.2	1.7
2	*5785.00	107.9 PK			2.70 H	127	67.8	40.1
3	*5785.00	97.3 AV			2.70 H	127	57.2	40.1
4	#5985.60	58.0 PK	68.2	-10.2	2.70 H	127	55.2	2.8
5	11570.00	59.9 PK	74.0	-14.1	1.47 H	239	45.6	14.3
6	11570.00	47.0 AV	54.0	-7.0	1.47 H	239	32.7	14.3
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	#5609.60	57.4 PK	68.2	-10.8	2.11 V	9	55.7	1.7
2	*5785.00	119.4 PK			2.11 V	9	79.3	40.1
3	*5785.00	109.0 AV			2.11 V	9	68.9	40.1
4	#5948.80	57.8 PK	68.2	-10.4	2.11 V	9	55.2	2.6
5	11570.00	60.1 PK	74.0	-13.9	2.61 V	224	45.8	14.3
6	11570.00	47.1 AV	54.0	-6.9	2.61 V	224	32.8	14.3

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.

CHANNEL	TX Channel 165	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	#5616.00	56.8 PK	68.2	-11.4	1.73 H	19	55.1	1.7
2	*5825.00	105.4 PK			1.73 H	19	65.2	40.2
3	*5825.00	94.3 AV			1.73 H	19	54.1	40.2
4	#5973.60	57.7 PK	68.2	-10.5	1.73 H	19	55.0	2.7
5	11650.00	59.9 PK	74.0	-14.1	2.75 H	221	45.5	14.4
6	11650.00	46.6 AV	54.0	-7.4	2.75 H	221	32.2	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.20	56.5 PK	68.2	-11.7	2.19 V	65	54.8	1.7
2	*5825.00	120.4 PK			2.19 V	65	80.2	40.2
3	*5825.00	108.9 AV			2.19 V	65	68.7	40.2
4	#5939.20	58.0 PK	68.2	-10.2	2.19 V	65	55.4	2.6
5	11650.00	60.1 PK	74.0	-13.9	2.02 V	265	45.7	14.4
6	11650.00	46.8 AV	54.0	-7.2	2.02 V	265	32.4	14.4

Remarks:

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 38	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	55.8 PK	74.0	-18.2	2.28 H	331	55.0	0.8
2	5150.00	42.2 AV	54.0	-11.8	2.28 H	331	41.4	0.8
3	*5190.00	92.9 PK			1.72 H	21	54.2	38.7
4	*5190.00	83.4 AV			1.72 H	21	44.7	38.7
5	#10380.00	58.1 PK	74.0	-15.9	2.06 H	189	45.3	12.8
6	#10380.00	44.7 AV	54.0	-9.3	2.06 H	189	31.9	12.8
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	5150.00	65.9 PK	74.0	-8.1	1.43 V	290	65.1	0.8
2	5150.00	52.3 AV	54.0	-1.7	1.43 V	290	51.5	0.8
3	*5190.00	113.2 PK			1.63 V	295	74.5	38.7
4	*5190.00	103.4 AV			1.63 V	295	64.7	38.7
5	#10380.00	59.1 PK	74.0	-14.9	1.33 V	278	46.3	12.8
6	#10380.00	45.1 AV	54.0	-8.9	1.33 V	278	32.3	12.8

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 46	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	54.9 PK	74.0	-19.1	1.53 H	161	54.1	0.8
2	5150.00	42.2 AV	54.0	-11.8	1.53 H	161	41.4	0.8
3	*5230.00	99.3 PK			1.50 H	15	60.5	38.8
4	*5230.00	89.7 AV			1.50 H	15	50.9	38.8
5	#10460.00	58.2 PK	74.0	-15.8	1.68 H	277	44.9	13.3
6	#10460.00	44.6 AV	54.0	-9.4	1.68 H	277	31.3	13.3
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	5150.00	69.0 PK	74.0	-5.0	1.56 V	244	68.2	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.56 V	244	51.6	0.8
3	*5230.00	118.2 PK			1.54 V	226	79.4	38.8
4	*5230.00	108.5 AV			1.54 V	226	69.7	38.8
5	#10460.00	58.6 PK	74.0	-15.4	1.88 V	277	45.3	13.3
6	#10460.00	45.0 AV	54.0	-9.0	1.88 V	277	31.7	13.3

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.

CHANNEL	TX Channel 151	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	#5617.60	56.4 PK	68.2	-11.8	3.93 H	35	54.7	1.7
2	*5755.00	104.3 PK			3.93 H	35	64.4	39.9
3	*5755.00	94.5 AV			3.93 H	35	54.6	39.9
4	#5982.40	58.3 PK	68.2	-9.9	3.93 H	35	55.5	2.8
5	11510.00	60.1 PK	74.0	-13.9	2.24 H	199	45.6	14.5
6	11510.00	47.0 AV	54.0	-7.0	2.24 H	199	32.5	14.5
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	#5645.60	57.1 PK	68.2	-11.1	2.27 V	73	55.4	1.7
2	*5755.00	116.7 PK			2.27 V	73	76.8	39.9
3	*5755.00	107.1 AV			2.27 V	73	67.2	39.9
4	#5933.60	58.4 PK	68.2	-9.8	2.27 V	73	55.8	2.6
5	11510.00	60.0 PK	74.0	-14.0	2.13 V	264	45.5	14.5
6	11510.00	47.0 AV	54.0	-7.0	2.13 V	264	32.5	14.5

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.

CHANNEL	TX Channel 159	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	#5639.20	56.8 PK	68.2	-11.4	1.67 H	21	55.1	1.7
2	*5795.00	102.1 PK			1.67 H	21	62.0	40.1
3	*5795.00	92.7 AV			1.67 H	21	52.6	40.1
4	#5954.40	57.3 PK	68.2	-10.9	1.67 H	21	54.7	2.6
5	11590.00	60.1 PK	74.0	-13.9	2.38 H	196	45.8	14.3
6	11590.00	47.0 AV	54.0	-7.0	2.38 H	196	32.7	14.3
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	#5616.00	56.6 PK	68.2	-11.6	2.35 V	56	54.9	1.7
2	*5795.00	117.0 PK			2.35 V	56	76.9	40.1
3	*5795.00	107.3 AV			2.35 V	56	67.2	40.1
4	#5933.60	56.6 PK	68.2	-11.6	2.35 V	56	54.0	2.6
5	11590.00	60.1 PK	74.0	-13.9	2.02 V	234	45.8	14.3
6	11590.00	47.1 AV	54.0	-6.9	2.02 V	234	32.8	14.3

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.

802.11ac (VHT80)

CHANNEL	TX Channel 42	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	56.1 PK	74.0	-17.9	1.81 H	221	55.3	0.8
2	5150.00	42.2 AV	54.0	-11.8	1.81 H	221	41.4	0.8
3	*5210.00	89.7 PK			1.21 H	54	51.0	38.7
4	*5210.00	79.7 AV			1.21 H	54	41.0	38.7
5	5350.00	55.6 PK	74.0	-18.4	1.54 H	213	54.5	1.1
6	5350.00	42.4 AV	54.0	-11.6	1.54 H	213	41.3	1.1
7	#10420.00	59.2 PK	74.0	-14.8	1.12 H	154	46.3	12.9
8	#10420.00	44.9 AV	54.0	-9.1	1.12 H	154	32.0	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	64.5 PK	74.0	-9.5	1.74 V	291	63.7	0.8
2	5150.00	52.5 AV	54.0	-1.5	1.74 V	291	51.7	0.8
3	*5210.00	108.3 PK			1.65 V	294	69.6	38.7
4	*5210.00	98.6 AV			1.65 V	294	59.9	38.7
5	5350.00	58.7 PK	74.0	-15.3	1.94 V	289	57.6	1.1
6	5350.00	45.5 AV	54.0	-8.5	1.94 V	289	44.4	1.1
7	#10420.00	58.9 PK	74.0	-15.1	1.74 V	226	46.0	12.9
8	#10420.00	45.1 AV	54.0	-8.9	1.74 V	226	32.2	12.9

Remarks:

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 155	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	#5620.00	57.2 PK	68.2	-11.0	2.66 H	133	55.5	1.7
2	#5650.00	58.8 PK	68.2	-9.4	2.67 H	228	57.1	1.7
3	*5775.00	100.3 PK			2.66 H	133	60.3	40.0
4	*5775.00	90.5 AV			2.66 H	133	50.5	40.0
5	#5925.00	58.5 PK	68.2	-9.7	1.56 H	119	55.9	2.6
6	#5980.00	57.8 PK	68.2	-10.4	2.66 H	133	55.0	2.8
7	11550.00	60.0 PK	74.0	-14.0	2.84 H	193	45.5	14.5
8	11550.00	47.2 AV	54.0	-6.8	2.84 H	193	32.7	14.5
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	#5635.20	63.6 PK	68.2	-4.6	2.22 V	51	61.9	1.7
2	#5650.00	66.5 PK	68.2	-1.7	2.04 V	33	64.8	1.7
3	*5775.00	112.7 PK			2.22 V	51	72.7	40.0
4	*5775.00	102.8 AV			2.22 V	51	62.8	40.0
5	#5925.00	66.8 PK	68.2	-1.4	2.51 V	38	64.2	2.6
6	#5930.40	64.3 PK	68.2	-3.9	2.22 V	51	61.7	2.6
7	11550.00	60.5 PK	74.0	-13.5	1.74 V	246	46.0	14.5
8	11550.00	47.2 AV	54.0	-6.8	1.74 V	246	32.7	14.5

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.

Test Mode D

802.11a

CHANNEL	TX Channel 36	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	56.6 PK	74.0	-17.4	1.60 H	300	55.8	0.8
2	5150.00	44.1 AV	54.0	-9.9	1.60 H	300	43.3	0.8
3	*5180.00	103.1 PK			1.54 H	303	64.4	38.7
4	*5180.00	93.2 AV			1.54 H	303	54.5	38.7
5	#10360.00	55.6 PK	74.0	-18.4	2.26 H	310	42.9	12.7
6	#10360.00	43.4 AV	54.0	-10.6	2.26 H	310	30.7	12.7
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	5150.00	69.5 PK	74.0	-4.5	1.78 V	175	68.7	0.8
2	5150.00	52.6 AV	54.0	-1.4	1.78 V	175	51.8	0.8
3	*5180.00	114.8 PK			1.56 V	139	76.1	38.7
4	*5180.00	105.2 AV			1.56 V	139	66.5	38.7
5	#10360.00	56.2 PK	74.0	-17.8	1.63 V	280	43.5	12.7
6	#10360.00	43.8 AV	54.0	-10.2	1.63 V	280	31.1	12.7

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 40	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	*5200.00	104.9 PK			1.97 H	358	66.2	38.7
2	*5200.00	94.4 AV			1.97 H	358	55.7	38.7
3	#10400.00	57.3 PK	74.0	-16.7	1.74 H	281	44.6	12.7
4	#10400.00	43.6 AV	54.0	-10.4	1.74 H	281	30.9	12.7
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	*5200.00	117.5 PK			1.59 V	322	78.8	38.7
2	*5200.00	107.2 AV			1.59 V	322	68.5	38.7
3	#10400.00	56.5 PK	74.0	-17.5	1.22 V	165	43.8	12.7
4	#10400.00	43.0 AV	54.0	-11.0	1.22 V	165	30.3	12.7

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 48	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	*5240.00	104.6 PK			1.94 H	359	65.8	38.8
2	*5240.00	93.9 AV			1.94 H	359	55.1	38.8
3	5350.00	54.8 PK	74.0	-19.2	1.58 H	271	53.7	1.1
4	5350.00	41.3 AV	54.0	-12.7	1.58 H	271	40.2	1.1
5	#10480.00	56.7 PK	74.0	-17.3	1.75 H	231	43.2	13.5
6	#10480.00	43.7 AV	54.0	-10.3	1.75 H	231	30.2	13.5
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	*5240.00	119.9 PK			2.11 V	37	81.1	38.8
2	*5240.00	109.4 AV			2.11 V	37	70.6	38.8
3	5350.00	55.7 PK	74.0	-18.3	1.85 V	167	54.6	1.1
4	5350.00	44.4 AV	54.0	-9.6	1.85 V	167	43.3	1.1
5	#10480.00	57.7 PK	74.0	-16.3	1.67 V	221	44.2	13.5
6	#10480.00	43.8 AV	54.0	-10.2	1.67 V	221	30.3	13.5

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.

CHANNEL	TX Channel 149	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	#5620.00	55.2 PK	68.2	-13.0	1.31 H	40	53.5	1.7
2	*5745.00	110.0 PK			1.31 H	40	70.1	39.9
3	*5745.00	100.2 AV			1.31 H	40	60.3	39.9
4	#5940.00	55.7 PK	68.2	-12.5	1.31 H	40	53.1	2.6
5	11490.00	57.9 PK	74.0	-16.1	1.84 H	333	43.4	14.5
6	11490.00	45.0 AV	54.0	-9.0	1.84 H	333	30.5	14.5
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	#5612.80	55.6 PK	68.2	-12.6	1.90 V	118	53.9	1.7
2	*5745.00	119.4 PK			1.90 V	118	79.5	39.9
3	*5745.00	109.4 AV			1.90 V	118	69.5	39.9
4	#5957.60	56.1 PK	68.2	-12.1	1.90 V	118	53.5	2.6
5	11490.00	58.6 PK	74.0	-15.4	1.80 V	145	44.1	14.5
6	11490.00	46.4 AV	54.0	-7.6	1.80 V	145	31.9	14.5

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.

CHANNEL	TX Channel 157	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	#5626.40	54.3 PK	68.2	-13.9	1.30 H	41	52.6	1.7
2	*5785.00	109.4 PK			1.30 H	41	69.3	40.1
3	*5785.00	99.6 AV			1.30 H	41	59.5	40.1
4	#5952.00	54.8 PK	68.2	-13.4	1.30 H	41	52.2	2.6
5	11570.00	58.0 PK	74.0	-16.0	1.61 H	251	43.7	14.3
6	11570.00	45.1 AV	54.0	-8.9	1.61 H	251	30.8	14.3
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	#5628.80	56.1 PK	68.2	-12.1	1.70 V	294	54.4	1.7
2	*5785.00	120.4 PK			1.70 V	294	80.3	40.1
3	*5785.00	110.6 AV			1.70 V	294	70.5	40.1
4	#5954.40	56.9 PK	68.2	-11.3	1.70 V	294	54.3	2.6
5	11570.00	58.7 PK	74.0	-15.3	2.11 V	190	44.4	14.3
6	11570.00	45.9 AV	54.0	-8.1	2.11 V	190	31.6	14.3

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.

CHANNEL	TX Channel 165	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	#5644.00	55.8 PK	68.2	-12.4	1.24 H	36	54.1	1.7
2	*5825.00	108.7 PK			1.24 H	36	68.5	40.2
3	*5825.00	98.8 AV			1.24 H	36	58.6	40.2
4	#5938.40	56.1 PK	68.2	-12.1	1.24 H	36	53.5	2.6
5	11650.00	58.3 PK	74.0	-15.7	1.65 H	84	43.9	14.4
6	11650.00	44.7 AV	54.0	-9.3	1.65 H	84	30.3	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.40	55.1 PK	68.2	-13.1	1.81 V	291	53.4	1.7
2	*5825.00	120.6 PK			1.81 V	291	80.4	40.2
3	*5825.00	110.7 AV			1.81 V	291	70.5	40.2
4	#5974.40	62.6 PK	68.2	-5.6	1.81 V	290	59.9	2.7
5	11650.00	58.9 PK	74.0	-15.1	2.11 V	204	44.5	14.4
6	11650.00	45.9 AV	54.0	-8.1	2.11 V	204	31.5	14.4

Remarks:

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 36	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	58.9 PK	74.0	-15.1	1.59 H	9	58.1	0.8
2	5150.00	43.1 AV	54.0	-10.9	1.59 H	9	42.3	0.8
3	*5180.00	103.7 PK			1.50 H	334	65.0	38.7
4	*5180.00	92.5 AV			1.50 H	334	53.8	38.7
5	#10360.00	56.5 PK	74.0	-17.5	1.68 H	334	43.8	12.7
6	#10360.00	43.2 AV	54.0	-10.8	1.68 H	334	30.5	12.7
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	5150.00	67.5 PK	74.0	-6.5	1.71 V	136	66.7	0.8
2	5150.00	52.2 AV	54.0	-1.8	1.71 V	136	51.4	0.8
3	*5180.00	114.1 PK			1.40 V	303	75.4	38.7
4	*5180.00	103.5 AV			1.40 V	303	64.8	38.7
5	#10360.00	56.7 PK	74.0	-17.3	1.34 V	268	44.0	12.7
6	#10360.00	43.3 AV	54.0	-10.7	1.34 V	268	30.6	12.7

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 40	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	*5200.00	105.9 PK			1.46 H	336	67.2	38.7
2	*5200.00	94.6 AV			1.46 H	336	55.9	38.7
3	#10400.00	57.6 PK	74.0	-16.4	1.36 H	348	44.9	12.7
4	#10400.00	43.6 AV	54.0	-10.4	1.36 H	348	30.9	12.7
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	*5200.00	117.4 PK			1.68 V	360	78.7	38.7
2	*5200.00	107.0 AV			1.68 V	360	68.3	38.7
3	#10400.00	57.2 PK	74.0	-16.8	1.43 V	229	44.5	12.7
4	#10400.00	43.6 AV	54.0	-10.4	1.43 V	229	30.9	12.7

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 48	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	*5240.00	105.0 PK			1.59 H	335	66.2	38.8
2	*5240.00	93.4 AV			1.59 H	335	54.6	38.8
3	5350.00	54.6 PK	74.0	-19.4	1.66 H	238	53.5	1.1
4	5350.00	41.4 AV	54.0	-12.6	1.66 H	238	40.3	1.1
5	#10480.00	57.6 PK	74.0	-16.4	1.88 H	324	44.1	13.5
6	#10480.00	43.9 AV	54.0	-10.1	1.88 H	324	30.4	13.5
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	*5240.00	118.6 PK			1.61 V	315	79.8	38.8
2	*5240.00	108.1 AV			1.61 V	315	69.3	38.8
3	5350.00	55.5 PK	74.0	-18.5	1.68 V	218	54.4	1.1
4	5350.00	44.1 AV	54.0	-9.9	1.68 V	218	43.0	1.1
5	#10480.00	57.1 PK	74.0	-16.9	1.43 V	238	43.6	13.5
6	#10480.00	44.0 AV	54.0	-10.0	1.43 V	238	30.5	13.5

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.

CHANNEL	TX Channel 149	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	#5657.60	55.0 PK	73.8	-18.8	1.40 H	39	53.2	1.8
2	*5745.00	109.6 PK			1.40 H	39	69.7	39.9
3	*5745.00	99.9 AV			1.40 H	39	60.0	39.9
4	#5980.80	56.6 PK	68.2	-11.6	1.40 H	39	53.8	2.8
5	11490.00	57.7 PK	74.0	-16.3	1.23 H	89	43.2	14.5
6	11490.00	44.3 AV	54.0	-9.7	1.23 H	89	29.8	14.5
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	#5629.60	60.6 PK	68.2	-7.6	1.64 V	294	58.9	1.7
2	*5745.00	121.6 PK			1.64 V	294	81.7	39.9
3	*5745.00	111.3 AV			1.64 V	294	71.4	39.9
4	#5952.80	61.3 PK	68.2	-6.9	1.64 V	294	58.7	2.6
5	11490.00	57.8 PK	74.0	-16.2	2.04 V	206	43.3	14.5
6	11490.00	45.8 AV	54.0	-8.2	2.04 V	206	31.3	14.5

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.

CHANNEL	TX Channel 157	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	#5623.20	55.6 PK	68.2	-12.6	1.41 H	41	53.9	1.7
2	*5785.00	109.8 PK			1.41 H	41	69.7	40.1
3	*5785.00	99.8 AV			1.41 H	41	59.7	40.1
4	#5966.40	54.8 PK	68.2	-13.4	1.41 H	41	52.1	2.7
5	11570.00	57.3 PK	74.0	-16.7	1.77 H	200	43.0	14.3
6	11570.00	44.2 AV	54.0	-9.8	1.77 H	200	29.9	14.3
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	#5615.20	59.6 PK	68.2	-8.6	1.64 V	297	57.9	1.7
2	*5785.00	122.0 PK			1.63 V	296	81.9	40.1
3	*5785.00	111.1 AV			1.63 V	296	71.0	40.1
4	#5944.80	61.1 PK	68.2	-7.1	1.64 V	294	58.5	2.6
5	11570.00	57.7 PK	74.0	-16.3	2.06 V	34	43.4	14.3
6	11570.00	45.4 AV	54.0	-8.6	2.06 V	34	31.1	14.3

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.

CHANNEL	TX Channel 165	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	#5647.20	55.1 PK	68.2	-13.1	1.39 H	40	53.4	1.7
2	*5825.00	108.7 PK			1.39 H	40	68.5	40.2
3	*5825.00	98.7 AV			1.39 H	40	58.5	40.2
4	#5976.80	55.2 PK	68.2	-13.0	1.39 H	40	52.4	2.8
5	11650.00	57.2 PK	74.0	-16.8	1.68 H	140	42.8	14.4
6	11650.00	44.8 AV	54.0	-9.2	1.68 H	140	30.4	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.60	60.1 PK	68.2	-8.1	1.59 V	297	58.4	1.7
2	*5825.00	121.4 PK			1.59 V	297	81.2	40.2
3	*5825.00	111.0 AV			1.59 V	297	70.8	40.2
4	#5928.80	61.2 PK	68.2	-7.0	1.59 V	297	58.6	2.6
5	11650.00	59.0 PK	74.0	-15.0	2.00 V	111	44.6	14.4
6	11650.00	46.0 AV	54.0	-8.0	2.00 V	111	31.6	14.4

Remarks:

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 38	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	56.1 PK	74.0	-17.9	1.66 H	21	55.3	0.8
2	5150.00	43.0 AV	54.0	-11.0	1.66 H	21	42.2	0.8
3	*5190.00	96.0 PK			2.23 H	21	57.3	38.7
4	*5190.00	86.5 AV			2.23 H	21	47.8	38.7
5	#10380.00	57.0 PK	74.0	-17.0	1.55 H	128	44.2	12.8
6	#10380.00	43.4 AV	54.0	-10.6	1.55 H	128	30.6	12.8
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	5150.00	63.7 PK	74.0	-10.3	1.98 V	344	62.9	0.8
2	5150.00	52.2 AV	54.0	-1.8	1.98 V	344	51.4	0.8
3	*5190.00	110.4 PK			2.01 V	351	71.7	38.7
4	*5190.00	101.0 AV			2.01 V	351	62.3	38.7
5	#10380.00	55.8 PK	74.0	-18.2	1.66 V	277	43.0	12.8
6	#10380.00	43.9 AV	54.0	-10.1	1.66 V	277	31.1	12.8

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 46	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	55.6 PK	74.0	-18.4	1.92 H	51	54.8	0.8
2	5150.00	42.0 AV	54.0	-12.0	1.92 H	51	41.2	0.8
3	*5230.00	102.7 PK			1.94 H	358	63.9	38.8
4	*5230.00	93.1 AV			1.94 H	358	54.3	38.8
5	#10460.00	56.7 PK	74.0	-17.3	1.73 H	235	43.4	13.3
6	#10460.00	43.7 AV	54.0	-10.3	1.73 H	235	30.4	13.3
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	5150.00	65.4 PK	74.0	-8.6	1.56 V	316	64.6	0.8
2	5150.00	50.7 AV	54.0	-3.3	1.56 V	316	49.9	0.8
3	*5230.00	116.9 PK			1.98 V	220	78.1	38.8
4	*5230.00	107.2 AV			1.98 V	220	68.4	38.8
5	#10460.00	58.4 PK	74.0	-15.6	1.23 V	221	45.1	13.3
6	#10460.00	43.8 AV	54.0	-10.2	1.23 V	221	30.5	13.3

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.

CHANNEL	TX Channel 151	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	#5611.20	55.2 PK	68.2	-13.0	1.29 H	39	53.5	1.7
2	*5755.00	109.8 PK			1.29 H	39	69.9	39.9
3	*5755.00	100.1 AV			1.29 H	39	60.2	39.9
4	#5946.40	56.8 PK	68.2	-11.4	1.29 H	39	54.2	2.6
5	11510.00	57.8 PK	74.0	-16.2	1.66 H	101	43.3	14.5
6	11510.00	44.9 AV	54.0	-9.1	1.66 H	101	30.4	14.5
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	#5645.60	57.8 PK	68.2	-10.4	1.87 V	141	56.1	1.7
2	#5650.00	58.4 PK	68.2	-9.8	1.89 V	135	56.7	1.7
3	*5755.00	116.2 PK			1.87 V	141	76.3	39.9
4	*5755.00	107.2 AV			1.87 V	141	67.3	39.9
5	#5949.60	56.1 PK	68.2	-12.1	1.87 V	141	53.5	2.6
6	11510.00	58.2 PK	74.0	-15.8	2.30 V	336	43.7	14.5
7	11510.00	45.1 AV	54.0	-8.9	2.30 V	336	30.6	14.5

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.

CHANNEL	TX Channel 159	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	#5641.60	54.7 PK	68.2	-13.5	1.22 H	42	53.0	1.7
2	*5795.00	106.8 PK			1.22 H	42	66.7	40.1
3	*5795.00	97.3 AV			1.22 H	42	57.2	40.1
4	#5951.20	55.3 PK	68.2	-12.9	1.22 H	42	52.7	2.6
5	11590.00	57.1 PK	74.0	-16.9	1.63 H	300	42.8	14.3
6	11590.00	44.0 AV	54.0	-10.0	1.63 H	300	29.7	14.3
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	#5621.60	57.3 PK	68.2	-10.9	1.87 V	294	55.6	1.7
2	*5795.00	116.6 PK			1.87 V	294	76.5	40.1
3	*5795.00	107.1 AV			1.87 V	294	67.0	40.1
4	#5932.80	56.5 PK	68.2	-11.7	1.87 V	294	53.9	2.6
5	11590.00	58.6 PK	74.0	-15.4	2.11 V	359	44.3	14.3
6	11590.00	46.1 AV	54.0	-7.9	2.11 V	359	31.8	14.3

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.

802.11ac (VHT80)

CHANNEL	TX Channel 42	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	54.6 PK	74.0	-19.4	1.38 H	360	53.8	0.8
2	5150.00	41.9 AV	54.0	-12.1	1.38 H	360	41.1	0.8
3	*5210.00	94.0 PK			1.97 H	359	55.3	38.7
4	*5210.00	84.4 AV			1.97 H	359	45.7	38.7
5	#10420.00	56.9 PK	74.0	-17.1	1.63 H	205	44.0	12.9
6	#10420.00	43.6 AV	54.0	-10.4	1.63 H	205	30.7	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	62.5 PK	74.0	-11.5	1.66 V	313	61.7	0.8
2	5150.00	52.2 AV	54.0	-1.8	1.66 V	313	51.4	0.8
3	*5210.00	104.8 PK			1.88 V	335	66.1	38.7
4	*5210.00	94.8 AV			1.88 V	335	56.1	38.7
5	#10420.00	56.8 PK	74.0	-17.2	2.06 V	211	43.9	12.9
6	#10420.00	43.7 AV	54.0	-10.3	2.06 V	211	30.8	12.9

Remarks:

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 155	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	#5643.20	58.0 PK	68.2	-10.2	1.30 H	41	56.3	1.7
2	#5650.00	58.3 PK	68.2	-9.9	1.51 H	50	56.6	1.7
3	*5775.00	101.6 PK			1.30 H	41	61.6	40.0
4	*5775.00	91.8 AV			1.30 H	41	51.8	40.0
5	#5925.00	56.5 PK	68.2	-11.7	1.44 H	36	53.9	2.6
6	#5940.80	57.0 PK	68.2	-11.2	1.30 H	41	54.4	2.6
7	11550.00	57.7 PK	74.0	-16.3	1.68 H	345	43.2	14.5
8	11550.00	45.0 AV	54.0	-9.0	1.68 H	345	30.5	14.5
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	#5645.60	61.4 PK	68.2	-6.8	1.74 V	120	59.7	1.7
2	#5650.00	66.7 PK	68.2	-1.5	1.90 V	231	65.0	1.7
3	*5775.00	110.9 PK			1.74 V	120	70.9	40.0
4	*5775.00	101.5 AV			1.74 V	120	61.5	40.0
5	#5925.00	65.3 PK	68.2	-2.9	1.83 V	217	62.7	2.6
6	#5928.00	60.3 PK	68.2	-7.9	1.74 V	122	57.7	2.6
7	11550.00	58.0 PK	74.0	-16.0	2.15 V	88	43.5	14.5
8	11550.00	45.2 AV	54.0	-8.8	2.15 V	88	30.7	14.5

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.

Test Mode G

802.11a

CHANNEL	TX Channel 36	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	66.7 PK	74.0	-7.3	2.01 H	352	65.9	0.8
2	5150.00	52.3 AV	54.0	-1.7	2.01 H	352	51.5	0.8
3	*5180.00	116.6 PK			1.49 H	339	77.9	38.7
4	*5180.00	106.0 AV			1.49 H	339	67.3	38.7
5	#10360.00	59.9 PK	74.0	-14.1	1.42 H	319	47.2	12.7
6	#10360.00	45.5 AV	54.0	-8.5	1.42 H	319	32.8	12.7
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	5150.00	66.9 PK	74.0	-7.1	1.78 V	356	66.1	0.8
2	5150.00	51.9 AV	54.0	-2.1	1.78 V	356	51.1	0.8
3	*5180.00	116.1 PK			1.68 V	349	77.4	38.7
4	*5180.00	105.6 AV			1.68 V	349	66.9	38.7
5	#10360.00	58.4 PK	74.0	-15.6	1.53 V	221	45.7	12.7
6	#10360.00	45.2 AV	54.0	-8.8	1.53 V	221	32.5	12.7

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 40	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	*5200.00	118.9 PK			1.16 H	351	80.2	38.7
2	*5200.00	108.3 AV			1.16 H	351	69.6	38.7
3	#10400.00	58.9 PK	74.0	-15.1	1.69 H	193	46.2	12.7
4	#10400.00	45.4 AV	54.0	-8.6	1.69 H	193	32.7	12.7
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	*5200.00	119.4 PK			1.13 V	345	80.7	38.7
2	*5200.00	108.9 AV			1.13 V	345	70.2	38.7
3	#10400.00	58.5 PK	74.0	-15.5	1.34 V	341	45.8	12.7
4	#10400.00	45.1 AV	54.0	-8.9	1.34 V	341	32.4	12.7

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 48	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	*5240.00	120.9 PK			1.55 H	346	82.1	38.8
2	*5240.00	109.9 AV			1.55 H	346	71.1	38.8
3	5350.00	57.4 PK	74.0	-16.6	1.03 H	347	56.3	1.1
4	5350.00	45.1 AV	54.0	-8.9	1.03 H	347	44.0	1.1
5	#10480.00	58.7 PK	74.0	-15.3	1.22 H	331	45.2	13.5
6	#10480.00	45.2 AV	54.0	-8.8	1.22 H	331	31.7	13.5
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	*5240.00	119.6 PK			1.11 V	348	80.8	38.8
2	*5240.00	109.0 AV			1.11 V	348	70.2	38.8
3	5350.00	48.0 PK	74.0	-26.0	1.91 V	352	46.9	1.1
4	5350.00	36.3 AV	54.0	-17.7	1.91 V	352	35.2	1.1
5	#10480.00	58.8 PK	74.0	-15.2	1.39 V	202	45.3	13.5
6	#10480.00	45.3 AV	54.0	-8.7	1.39 V	202	31.8	13.5

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.

CHANNEL	TX Channel 149	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	#5616.00	56.9 PK	68.2	-11.3	2.27 H	2	55.2	1.7
2	*5745.00	120.5 PK			2.27 H	2	80.6	39.9
3	*5745.00	109.7 AV			2.27 H	2	69.8	39.9
4	#5980.00	57.5 PK	68.2	-10.7	2.27 H	2	54.7	2.8
5	11490.00	60.8 PK	74.0	-13.2	1.38 H	307	46.3	14.5
6	11490.00	47.1 AV	54.0	-6.9	1.38 H	307	32.6	14.5
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	#5613.60	56.8 PK	68.2	-11.4	1.11 V	346	55.1	1.7
2	*5745.00	121.5 PK			1.11 V	346	81.6	39.9
3	*5745.00	110.5 AV			1.11 V	346	70.6	39.9
4	#5987.20	58.7 PK	68.2	-9.5	1.11 V	346	55.9	2.8
5	11490.00	60.8 PK	74.0	-13.2	1.26 V	332	46.3	14.5
6	11490.00	46.7 AV	54.0	-7.3	1.26 V	332	32.2	14.5

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.

CHANNEL	TX Channel 157	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	#5629.60	56.9 PK	68.2	-11.3	2.31 H	5	55.2	1.7
2	*5785.00	121.1 PK			2.31 H	5	81.0	40.1
3	*5785.00	110.1 AV			2.31 H	5	70.0	40.1
4	#5952.80	58.6 PK	68.2	-9.6	2.31 H	5	56.0	2.6
5	11570.00	60.8 PK	74.0	-13.2	2.31 H	307	46.5	14.3
6	11570.00	46.8 AV	54.0	-7.2	2.31 H	307	32.5	14.3
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	#5634.40	57.7 PK	68.2	-10.5	1.06 V	355	56.0	1.7
2	*5785.00	120.3 PK			1.06 V	355	80.2	40.1
3	*5785.00	109.6 AV			1.06 V	355	69.5	40.1
4	#5946.40	58.1 PK	68.2	-10.1	1.06 V	355	55.5	2.6
5	11570.00	60.5 PK	74.0	-13.5	1.16 V	339	46.2	14.3
6	11570.00	46.8 AV	54.0	-7.2	1.16 V	339	32.5	14.3

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.

CHANNEL	TX Channel 165	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	#5633.60	56.3 PK	68.2	-11.9	1.45 H	360	54.6	1.7
2	*5825.00	121.2 PK			1.45 H	360	81.0	40.2
3	*5825.00	110.3 AV			1.45 H	360	70.1	40.2
4	#5952.00	57.8 PK	68.2	-10.4	1.45 H	360	55.2	2.6
5	11650.00	60.2 PK	74.0	-13.8	2.19 H	342	45.8	14.4
6	11650.00	46.7 AV	54.0	-7.3	2.19 H	342	32.3	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5639.20	56.5 PK	68.2	-11.7	1.09 V	338	54.8	1.7
2	*5825.00	119.4 PK			1.09 V	338	79.2	40.2
3	*5825.00	109.1 AV			1.09 V	338	68.9	40.2
4	#5943.20	58.4 PK	68.2	-9.8	1.09 V	338	55.8	2.6
5	11650.00	59.9 PK	74.0	-14.1	1.66 V	325	45.5	14.4
6	11650.00	46.7 AV	54.0	-7.3	1.66 V	325	32.3	14.4

Remarks:

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 36	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	65.8 PK	74.0	-8.2	2.04 H	359	65.0	0.8
2	5150.00	52.5 AV	54.0	-1.5	2.04 H	359	51.7	0.8
3	*5180.00	117.8 PK			1.16 H	341	79.1	38.7
4	*5180.00	107.0 AV			1.16 H	341	68.3	38.7
5	#10360.00	59.8 PK	74.0	-14.2	1.32 H	313	47.1	12.7
6	#10360.00	45.3 AV	54.0	-8.7	1.32 H	313	32.6	12.7
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	5150.00	67.5 PK	74.0	-6.5	1.44 V	350	66.7	0.8
2	5150.00	52.8 AV	54.0	-1.2	1.44 V	350	52.0	0.8
3	*5180.00	118.4 PK			1.10 V	345	79.7	38.7
4	*5180.00	107.2 AV			1.10 V	345	68.5	38.7
5	#10360.00	60.6 PK	74.0	-13.4	1.24 V	222	47.9	12.7
6	#10360.00	47.2 AV	54.0	-6.8	1.24 V	222	34.5	12.7

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 40	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	*5200.00	120.2 PK			1.19 H	343	81.5	38.7
2	*5200.00	109.6 AV			1.19 H	343	70.9	38.7
3	#10400.00	58.8 PK	74.0	-15.2	1.03 H	247	46.1	12.7
4	#10400.00	45.2 AV	54.0	-8.8	1.03 H	247	32.5	12.7
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	*5200.00	122.9 PK			1.04 V	343	84.2	38.7
2	*5200.00	111.6 AV			1.04 V	343	72.9	38.7
3	#10400.00	61.2 PK	74.0	-12.8	1.56 V	234	48.5	12.7
4	#10400.00	46.8 AV	54.0	-7.2	1.56 V	234	34.1	12.7

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 48	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	*5240.00	120.7 PK			1.24 H	340	81.9	38.8
2	*5240.00	110.1 AV			1.24 H	340	71.3	38.8
3	5350.00	57.6 PK	74.0	-16.4	1.71 H	345	56.5	1.1
4	5350.00	45.4 AV	54.0	-8.6	1.71 H	345	44.3	1.1
5	#10480.00	59.2 PK	74.0	-14.8	1.16 H	19	45.7	13.5
6	#10480.00	45.5 AV	54.0	-8.5	1.16 H	19	32.0	13.5
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	*5240.00	122.5 PK			2.17 V	353	83.7	38.8
2	*5240.00	111.8 AV			2.17 V	353	73.0	38.8
3	5350.00	61.0 PK	74.0	-13.0	1.35 V	348	59.9	1.1
4	5350.00	48.4 AV	54.0	-5.6	1.35 V	348	47.3	1.1
5	#10480.00	61.0 PK	74.0	-13.0	1.89 V	272	47.5	13.5
6	#10480.00	47.1 AV	54.0	-6.9	1.89 V	272	33.6	13.5

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.

CHANNEL	TX Channel 149	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	#5638.40	57.0 PK	68.2	-11.2	1.41 H	350	55.3	1.7
2	*5745.00	121.1 PK			1.41 H	350	81.2	39.9
3	*5745.00	109.9 AV			1.41 H	350	70.0	39.9
4	#5960.80	57.6 PK	68.2	-10.6	1.41 H	350	55.0	2.6
5	11490.00	60.7 PK	74.0	-13.3	2.24 H	352	46.2	14.5
6	11490.00	46.8 AV	54.0	-7.2	2.24 H	352	32.3	14.5
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	#5604.80	57.2 PK	68.2	-11.0	1.09 V	347	55.5	1.7
2	*5745.00	120.3 PK			1.09 V	347	80.4	39.9
3	*5745.00	109.2 AV			1.09 V	347	69.3	39.9
4	#5964.00	58.2 PK	68.2	-10.0	1.09 V	347	55.5	2.7
5	11490.00	60.2 PK	74.0	-13.8	1.19 V	341	45.7	14.5
6	11490.00	47.1 AV	54.0	-6.9	1.19 V	341	32.6	14.5

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.

CHANNEL	TX Channel 157	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	#5642.40	57.6 PK	68.2	-10.6	1.53 H	2	55.9	1.7
2	*5785.00	120.4 PK			1.53 H	2	80.3	40.1
3	*5785.00	109.7 AV			1.53 H	2	69.6	40.1
4	#5968.80	58.6 PK	68.2	-9.6	1.53 H	2	55.9	2.7
5	11570.00	60.2 PK	74.0	-13.8	1.93 H	348	45.9	14.3
6	11570.00	46.9 AV	54.0	-7.1	1.93 H	348	32.6	14.3
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	#5618.40	56.6 PK	68.2	-11.6	1.08 V	343	54.9	1.7
2	*5785.00	120.1 PK			1.08 V	343	80.0	40.1
3	*5785.00	109.1 AV			1.08 V	343	69.0	40.1
4	#5956.00	57.2 PK	68.2	-11.0	1.08 V	343	54.6	2.6
5	11570.00	60.9 PK	74.0	-13.1	1.47 V	319	46.6	14.3
6	11570.00	47.1 AV	54.0	-6.9	1.47 V	319	32.8	14.3

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.

CHANNEL	TX Channel 165	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	#5628.00	56.5 PK	68.2	-11.7	1.38 H	350	54.8	1.7
2	*5825.00	120.8 PK			1.38 H	350	80.6	40.2
3	*5825.00	109.9 AV			1.38 H	350	69.7	40.2
4	#5950.40	58.5 PK	68.2	-9.7	1.38 H	350	55.9	2.6
5	11650.00	60.7 PK	74.0	-13.3	1.77 H	311	46.3	14.4
6	11650.00	46.6 AV	54.0	-7.4	1.77 H	311	32.2	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	56.3 PK	68.2	-11.9	1.05 V	350	54.6	1.7
2	*5825.00	119.8 PK			1.05 V	350	79.6	40.2
3	*5825.00	108.7 AV			1.05 V	350	68.5	40.2
4	#5929.60	57.9 PK	68.2	-10.3	1.05 V	350	55.3	2.6
5	11650.00	60.2 PK	74.0	-13.8	1.27 V	318	45.8	14.4
6	11650.00	46.9 AV	54.0	-7.1	1.27 V	318	32.5	14.4

Remarks:

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 38	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	63.3 PK	74.0	-10.7	1.82 H	355	62.5	0.8
2	5150.00	50.5 AV	54.0	-3.5	1.82 H	355	49.7	0.8
3	*5190.00	110.4 PK			2.15 H	354	71.7	38.7
4	*5190.00	100.4 AV			2.15 H	354	61.7	38.7
5	#10380.00	59.0 PK	74.0	-15.0	1.72 H	215	46.2	12.8
6	#10380.00	45.4 AV	54.0	-8.6	1.72 H	215	32.6	12.8
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	5150.00	65.6 PK	74.0	-8.4	1.69 V	352	64.8	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.69 V	352	51.6	0.8
3	*5190.00	110.3 PK			1.77 V	347	71.6	38.7
4	*5190.00	101.0 AV			1.77 V	347	62.3	38.7
5	#10380.00	58.4 PK	74.0	-15.6	1.42 V	279	45.6	12.8
6	#10380.00	45.3 AV	54.0	-8.7	1.42 V	279	32.5	12.8

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 46	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	66.7 PK	74.0	-7.3	1.83 H	350	65.9	0.8
2	5150.00	51.6 AV	54.0	-2.4	1.83 H	350	50.8	0.8
3	*5230.00	117.3 PK			1.08 H	345	78.5	38.8
4	*5230.00	108.5 AV			1.08 H	345	69.7	38.8
5	5350.00	60.6 PK	74.0	-13.4	1.15 H	345	59.5	1.1
6	5350.00	47.2 AV	54.0	-6.8	1.15 H	345	46.1	1.1
7	#10460.00	58.1 PK	74.0	-15.9	1.33 H	213	44.8	13.3
8	#10460.00	45.2 AV	54.0	-8.8	1.33 H	213	31.9	13.3
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	5150.00	68.5 PK	74.0	-5.5	1.50 V	352	67.7	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.50 V	352	51.6	0.8
3	*5230.00	117.4 PK			1.75 V	347	78.6	38.8
4	*5230.00	107.9 AV			1.75 V	347	69.1	38.8
5	5350.00	58.4 PK	74.0	-15.6	1.52 V	331	57.3	1.1
6	5350.00	47.4 AV	54.0	-6.6	1.52 V	331	46.3	1.1
7	#10460.00	58.3 PK	74.0	-15.7	1.22 V	312	45.0	13.3
8	#10460.00	45.3 AV	54.0	-8.7	1.22 V	312	32.0	13.3

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.

CHANNEL	TX Channel 151	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	#5632.80	57.8 PK	68.2	-10.4	2.19 H	357	56.1	1.7
2	*5755.00	117.2 PK			2.19 H	357	77.3	39.9
3	*5755.00	107.5 AV			2.19 H	357	67.6	39.9
4	#5977.60	58.6 PK	68.2	-9.6	2.19 H	357	55.8	2.8
5	11510.00	59.7 PK	74.0	-14.3	1.34 H	347	45.2	14.5
6	11510.00	47.2 AV	54.0	-6.8	1.34 H	347	32.7	14.5
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	#5647.20	58.9 PK	68.2	-9.3	1.05 V	338	57.2	1.7
2	*5755.00	116.6 PK			1.05 V	338	76.7	39.9
3	*5755.00	107.1 AV			1.05 V	338	67.2	39.9
4	#5994.40	58.4 PK	68.2	-9.8	1.05 V	338	55.6	2.8
5	11510.00	60.1 PK	74.0	-13.9	1.09 V	352	45.6	14.5
6	11510.00	46.8 AV	54.0	-7.2	1.09 V	352	32.3	14.5

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.

CHANNEL	TX Channel 159	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	#5637.60	57.0 PK	68.2	-11.2	1.38 H	1	55.3	1.7
2	*5795.00	117.6 PK			1.38 H	1	77.5	40.1
3	*5795.00	107.6 AV			1.38 H	1	67.5	40.1
4	#5941.60	59.9 PK	68.2	-8.3	1.38 H	1	57.3	2.6
5	11590.00	60.5 PK	74.0	-13.5	1.49 H	355	46.2	14.3
6	11590.00	47.0 AV	54.0	-7.0	1.49 H	355	32.7	14.3
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	#5640.00	56.9 PK	68.2	-11.3	1.03 V	345	55.2	1.7
2	*5795.00	117.2 PK			1.03 V	345	77.1	40.1
3	*5795.00	107.6 AV			1.03 V	345	67.5	40.1
4	#5960.00	58.3 PK	68.2	-9.9	1.03 V	345	55.7	2.6
5	11590.00	60.9 PK	74.0	-13.1	1.06 V	347	46.6	14.3
6	11590.00	47.1 AV	54.0	-6.9	1.06 V	347	32.8	14.3

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.

802.11ac (VHT80)

CHANNEL	TX Channel 42	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	63.3 PK	74.0	-10.7	1.61 H	353	62.5	0.8
2	5150.00	50.9 AV	54.0	-3.1	1.61 H	353	50.1	0.8
3	*5210.00	106.6 PK			1.28 H	346	67.9	38.7
4	*5210.00	96.8 AV			1.28 H	346	58.1	38.7
5	5350.00	59.6 PK	74.0	-14.4	1.57 H	345	58.5	1.1
6	5350.00	47.2 AV	54.0	-6.8	1.57 H	345	46.1	1.1
7	#10420.00	58.0 PK	74.0	-16.0	1.16 H	134	45.1	12.9
8	#10420.00	45.3 AV	54.0	-8.7	1.16 H	134	32.4	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	64.7 PK	74.0	-9.3	1.68 V	348	63.9	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.68 V	348	51.6	0.8
3	*5210.00	106.8 PK			1.64 V	349	68.1	38.7
4	*5210.00	97.0 AV			1.64 V	349	58.3	38.7
5	5350.00	59.6 PK	74.0	-14.4	1.68 V	352	58.5	1.1
6	5350.00	47.7 AV	54.0	-6.3	1.68 V	352	46.6	1.1
7	#10420.00	58.4 PK	74.0	-15.6	1.79 V	311	45.5	12.9
8	#10420.00	45.5 AV	54.0	-8.5	1.79 V	311	32.6	12.9

Remarks:

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 155	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	#5644.00	63.2 PK	68.2	-5.0	1.43 H	3	61.5	1.7
2	#5650.00	65.6 PK	68.2	-2.6	1.34 H	353	63.9	1.7
3	*5775.00	113.0 PK			1.43 H	3	73.0	40.0
4	*5775.00	102.4 AV			1.43 H	3	62.4	40.0
5	#5925.00	66.5 PK	68.2	-1.7	1.35 H	2	63.9	2.6
6	#5929.60	63.4 PK	68.2	-4.8	1.43 H	3	60.8	2.6
7	11550.00	60.4 PK	74.0	-13.6	1.44 H	351	45.9	14.5
8	11550.00	47.4 AV	54.0	-6.6	1.44 H	351	32.9	14.5
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	#5644.00	62.4 PK	68.2	-5.8	1.05 V	350	60.7	1.7
2	#5650.00	65.8 PK	68.2	-2.4	2.58 V	355	64.1	1.7
3	*5775.00	112.3 PK			1.05 V	350	72.3	40.0
4	*5775.00	102.0 AV			1.05 V	350	62.0	40.0
5	#5925.00	66.0 PK	68.2	-2.2	1.23 V	343	63.4	2.6
6	#5930.40	63.7 PK	68.2	-4.5	1.05 V	350	61.1	2.6
7	11550.00	59.9 PK	74.0	-14.1	1.09 V	334	45.4	14.5
8	11550.00	47.2 AV	54.0	-6.8	1.09 V	334	32.7	14.5

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.

Test Mode I

802.11a

CHANNEL	TX Channel 36	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	66.1 PK	74.0	-7.9	1.87 H	349	65.3	0.8
2	5150.00	52.3 AV	54.0	-1.7	1.87 H	349	51.5	0.8
3	*5180.00	119.6 PK			2.06 H	349	80.9	38.7
4	*5180.00	109.0 AV			2.06 H	349	70.3	38.7
5	#10360.00	56.0 PK	74.0	-18.0	2.20 H	256	43.3	12.7
6	#10360.00	43.0 AV	54.0	-11.0	2.20 H	256	30.3	12.7
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	5150.00	56.5 PK	74.0	-17.5	3.50 V	31	55.7	0.8
2	5150.00	44.5 AV	54.0	-9.5	3.50 V	31	43.7	0.8
3	*5180.00	108.5 PK			3.48 V	29	69.8	38.7
4	*5180.00	97.6 AV			3.48 V	29	58.9	38.7
5	#10360.00	55.3 PK	74.0	-18.7	2.48 V	222	42.6	12.7
6	#10360.00	42.5 AV	54.0	-11.5	2.48 V	222	29.8	12.7

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 40	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	65.6 PK	74.0	-8.4	2.13 H	340	64.8	0.8
2	5150.00	52.4 AV	54.0	-1.6	2.13 H	340	51.6	0.8
3	*5200.00	122.8 PK			1.82 H	346	84.1	38.7
4	*5200.00	112.6 AV			1.82 H	346	73.9	38.7
5	#10400.00	57.2 PK	74.0	-16.8	1.90 H	168	44.5	12.7
6	#10400.00	44.3 AV	54.0	-9.7	1.90 H	168	31.6	12.7
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	5150.00	54.4 PK	74.0	-19.6	3.43 V	45	53.6	0.8
2	5150.00	42.1 AV	54.0	-11.9	3.43 V	45	41.3	0.8
3	*5200.00	112.0 PK			3.40 V	30	73.3	38.7
4	*5200.00	101.4 AV			3.40 V	30	62.7	38.7
5	#10400.00	56.4 PK	74.0	-17.6	2.13 V	200	43.7	12.7
6	#10400.00	43.3 AV	54.0	-10.7	2.13 V	200	30.6	12.7

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 48	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	*5240.00	123.5 PK			1.83 H	152	84.7	38.8
2	*5240.00	113.4 AV			1.83 H	152	74.6	38.8
3	5350.00	60.8 PK	74.0	-13.2	1.79 H	351	59.7	1.1
4	5350.00	50.9 AV	54.0	-3.1	1.79 H	351	49.8	1.1
5	#10480.00	58.3 PK	74.0	-15.7	2.01 H	156	44.8	13.5
6	#10480.00	45.2 AV	54.0	-8.8	2.01 H	156	31.7	13.5
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	*5240.00	112.0 PK			3.50 V	31	73.2	38.8
2	*5240.00	102.4 AV			3.50 V	31	63.6	38.8
3	5350.00	53.4 PK	74.0	-20.6	2.50 V	61	52.3	1.1
4	5350.00	42.0 AV	54.0	-12.0	2.50 V	61	40.9	1.1
5	#10480.00	56.4 PK	74.0	-17.6	1.77 V	19	42.9	13.5
6	#10480.00	43.4 AV	54.0	-10.6	1.77 V	19	29.9	13.5

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.

CHANNEL	TX Channel 149	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	#5644.80	61.1 PK	68.2	-7.1	1.53 H	342	59.4	1.7
2	*5745.00	125.4 PK			1.53 H	342	85.5	39.9
3	*5745.00	114.8 AV			1.53 H	342	74.9	39.9
4	#5988.00	61.9 PK	68.2	-6.3	1.53 H	342	59.1	2.8
5	11490.00	58.7 PK	74.0	-15.3	1.09 H	293	44.2	14.5
6	11490.00	45.2 AV	54.0	-8.8	1.09 H	293	30.7	14.5
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	#5643.20	55.3 PK	68.2	-12.9	3.92 V	18	53.6	1.7
2	*5745.00	111.0 PK			3.92 V	18	71.1	39.9
3	*5745.00	100.1 AV			3.92 V	18	60.2	39.9
4	#5986.40	56.2 PK	68.2	-12.0	3.92 V	18	53.4	2.8
5	11490.00	59.0 PK	74.0	-15.0	3.21 V	49	44.5	14.5
6	11490.00	45.6 AV	54.0	-8.4	3.21 V	49	31.1	14.5

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.

CHANNEL	TX Channel 157	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	#5606.40	60.7 PK	68.2	-7.5	1.42 H	349	59.0	1.7
2	*5785.00	125.6 PK			1.42 H	349	85.5	40.1
3	*5785.00	115.7 AV			1.42 H	349	75.6	40.1
4	#5983.20	61.7 PK	68.2	-6.5	1.42 H	349	58.9	2.8
5	11570.00	58.8 PK	74.0	-15.2	1.13 H	331	44.5	14.3
6	11570.00	45.3 AV	54.0	-8.7	1.13 H	331	31.0	14.3
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	#5632.00	56.3 PK	68.2	-11.9	3.37 V	14	54.6	1.7
2	*5785.00	112.0 PK			3.37 V	14	71.9	40.1
3	*5785.00	101.5 AV			3.37 V	14	61.4	40.1
4	#5990.40	56.6 PK	68.2	-11.6	3.37 V	14	53.8	2.8
5	11570.00	58.4 PK	74.0	-15.6	3.13 V	47	44.1	14.3
6	11570.00	45.4 AV	54.0	-8.6	3.13 V	47	31.1	14.3

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.

CHANNEL	TX Channel 165	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	#5645.60	60.6 PK	68.2	-7.6	1.35 H	349	58.9	1.7
2	*5825.00	123.4 PK			1.35 H	349	83.2	40.2
3	*5825.00	113.3 AV			1.35 H	349	73.1	40.2
4	#5950.40	61.6 PK	68.2	-6.6	1.35 H	349	59.0	2.6
5	11650.00	58.2 PK	74.0	-15.8	1.32 H	319	43.8	14.4
6	11650.00	45.0 AV	54.0	-9.0	1.32 H	319	30.6	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.00	55.2 PK	68.2	-13.0	2.91 V	20	53.5	1.7
2	*5825.00	111.3 PK			2.91 V	20	71.1	40.2
3	*5825.00	100.6 AV			2.91 V	20	60.4	40.2
4	#5992.00	55.6 PK	68.2	-12.6	2.91 V	20	52.8	2.8
5	11650.00	58.3 PK	74.0	-15.7	3.14 V	77	43.9	14.4
6	11650.00	44.9 AV	54.0	-9.1	3.14 V	77	30.5	14.4

Remarks:

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 36	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	67.7 PK	74.0	-6.3	1.95 H	353	66.9	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.95 H	353	51.6	0.8
3	*5180.00	118.5 PK			2.08 H	343	79.8	38.7
4	*5180.00	108.5 AV			2.08 H	343	69.8	38.7
5	#10360.00	56.6 PK	74.0	-17.4	1.79 H	43	43.9	12.7
6	#10360.00	43.8 AV	54.0	-10.2	1.79 H	43	31.1	12.7
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	5150.00	57.3 PK	74.0	-16.7	2.98 V	47	56.5	0.8
2	5150.00	44.4 AV	54.0	-9.6	2.98 V	47	43.6	0.8
3	*5180.00	109.4 PK			3.57 V	31	70.7	38.7
4	*5180.00	98.6 AV			3.57 V	31	59.9	38.7
5	#10360.00	56.1 PK	74.0	-17.9	1.98 V	240	43.4	12.7
6	#10360.00	43.0 AV	54.0	-11.0	1.98 V	240	30.3	12.7

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 40	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	69.0 PK	74.0	-5.0	2.00 H	357	68.2	0.8
2	5150.00	52.7 AV	54.0	-1.3	2.00 H	357	51.9	0.8
3	*5200.00	121.8 PK			2.00 H	343	83.1	38.7
4	*5200.00	111.7 AV			2.00 H	343	73.0	38.7
5	#10400.00	57.1 PK	74.0	-16.9	1.80 H	256	44.4	12.7
6	#10400.00	44.2 AV	54.0	-9.8	1.80 H	256	31.5	12.7
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	5150.00	56.4 PK	74.0	-17.6	3.03 V	33	55.6	0.8
2	5150.00	45.3 AV	54.0	-8.7	3.03 V	33	44.5	0.8
3	*5200.00	113.0 PK			3.48 V	30	74.3	38.7
4	*5200.00	102.0 AV			3.48 V	30	63.3	38.7
5	#10400.00	56.7 PK	74.0	-17.3	2.22 V	349	44.0	12.7
6	#10400.00	43.4 AV	54.0	-10.6	2.22 V	349	30.7	12.7

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 48	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	*5240.00	123.3 PK			1.81 H	348	84.5	38.8
2	*5240.00	112.5 AV			1.81 H	348	73.7	38.8
3	5350.00	60.6 PK	74.0	-13.4	1.94 H	350	59.5	1.1
4	5350.00	48.7 AV	54.0	-5.3	1.94 H	350	47.6	1.1
5	#10480.00	58.1 PK	74.0	-15.9	1.77 H	174	44.6	13.5
6	#10480.00	45.1 AV	54.0	-8.9	1.77 H	174	31.6	13.5
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	*5240.00	112.3 PK			3.41 V	29	73.5	38.8
2	*5240.00	101.1 AV			3.41 V	29	62.3	38.8
3	5350.00	57.2 PK	74.0	-16.8	3.21 V	33	56.1	1.1
4	5350.00	46.7 AV	54.0	-7.3	3.21 V	33	45.6	1.1
5	#10480.00	57.3 PK	74.0	-16.7	2.40 V	0	43.8	13.5
6	#10480.00	44.1 AV	54.0	-9.9	2.40 V	0	30.6	13.5

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.

CHANNEL	TX Channel 149	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	#5632.80	60.7 PK	68.2	-7.5	1.16 H	351	59.0	1.7
2	*5745.00	125.8 PK			1.16 H	351	85.9	39.9
3	*5745.00	114.5 AV			1.16 H	351	74.6	39.9
4	#5940.00	62.0 PK	68.2	-6.2	1.16 H	351	59.4	2.6
5	11490.00	58.9 PK	74.0	-15.1	1.23 H	291	44.4	14.5
6	11490.00	45.3 AV	54.0	-8.7	1.23 H	291	30.8	14.5
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	#5612.80	55.7 PK	68.2	-12.5	3.67 V	17	54.0	1.7
2	*5745.00	111.8 PK			3.67 V	17	71.9	39.9
3	*5745.00	101.1 AV			3.67 V	17	61.2	39.9
4	#5985.60	56.2 PK	68.2	-12.0	3.67 V	17	53.4	2.8
5	11490.00	58.9 PK	74.0	-15.1	2.94 V	15	44.4	14.5
6	11490.00	45.6 AV	54.0	-8.4	2.94 V	15	31.1	14.5

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.

CHANNEL	TX Channel 157	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	#5635.20	60.4 PK	68.2	-7.8	1.00 H	350	58.7	1.7
2	*5785.00	125.1 PK			1.00 H	350	85.0	40.1
3	*5785.00	114.2 AV			1.00 H	350	74.1	40.1
4	#5969.60	62.0 PK	68.2	-6.2	1.00 H	350	59.3	2.7
5	11570.00	58.6 PK	74.0	-15.4	1.06 H	317	44.3	14.3
6	11570.00	45.6 AV	54.0	-8.4	1.06 H	317	31.3	14.3
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	#5632.00	55.1 PK	68.2	-13.1	3.65 V	17	53.4	1.7
2	*5785.00	113.2 PK			3.65 V	17	73.1	40.1
3	*5785.00	101.8 AV			3.65 V	17	61.7	40.1
4	#5945.60	56.1 PK	68.2	-12.1	3.65 V	17	53.5	2.6
5	11570.00	59.1 PK	74.0	-14.9	3.51 V	59	44.8	14.3
6	11570.00	45.3 AV	54.0	-8.7	3.51 V	59	31.0	14.3

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.

CHANNEL	TX Channel 165	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	#5649.60	60.8 PK	68.2	-7.4	1.20 H	350	59.1	1.7
2	*5825.00	123.4 PK			1.20 H	350	83.2	40.2
3	*5825.00	112.1 AV			1.20 H	350	71.9	40.2
4	#5986.40	62.0 PK	68.2	-6.2	1.20 H	350	59.2	2.8
5	11650.00	58.7 PK	74.0	-15.3	1.27 H	311	44.3	14.4
6	11650.00	44.9 AV	54.0	-9.1	1.27 H	311	30.5	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.80	55.3 PK	68.2	-12.9	3.28 V	14	53.6	1.7
2	*5825.00	109.9 PK			3.28 V	14	69.7	40.2
3	*5825.00	98.7 AV			3.28 V	14	58.5	40.2
4	#5952.00	56.3 PK	68.2	-11.9	3.28 V	14	53.7	2.6
5	11650.00	58.9 PK	74.0	-15.1	3.31 V	55	44.5	14.4
6	11650.00	45.0 AV	54.0	-9.0	3.31 V	55	30.6	14.4

Remarks:

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 38	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	64.9 PK	74.0	-9.1	1.94 H	342	64.1	0.8
2	5150.00	52.4 AV	54.0	-1.6	1.94 H	342	51.6	0.8
3	*5190.00	113.4 PK			1.83 H	359	74.7	38.7
4	*5190.00	104.1 AV			1.83 H	359	65.4	38.7
5	#10380.00	56.0 PK	74.0	-18.0	1.60 H	259	43.2	12.8
6	#10380.00	43.3 AV	54.0	-10.7	1.60 H	259	30.5	12.8
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	5150.00	55.4 PK	74.0	-18.6	3.34 V	30	54.6	0.8
2	5150.00	44.3 AV	54.0	-9.7	3.34 V	30	43.5	0.8
3	*5190.00	102.4 PK			3.43 V	32	63.7	38.7
4	*5190.00	93.0 AV			3.43 V	32	54.3	38.7
5	#10380.00	55.0 PK	74.0	-19.0	2.34 V	330	42.2	12.8
6	#10380.00	41.9 AV	54.0	-12.1	2.34 V	330	29.1	12.8

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 46	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	65.9 PK	74.0	-8.1	1.94 H	340	65.1	0.8
2	5150.00	52.3 AV	54.0	-1.7	1.94 H	340	51.5	0.8
3	*5230.00	119.8 PK			1.83 H	350	81.0	38.8
4	*5230.00	109.9 AV			1.83 H	350	71.1	38.8
5	#10460.00	56.4 PK	74.0	-17.6	2.02 H	52	43.1	13.3
6	#10460.00	44.1 AV	54.0	-9.9	2.02 H	52	30.8	13.3
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	5150.00	58.6 PK	74.0	-15.4	3.00 V	40	57.8	0.8
2	5150.00	46.6 AV	54.0	-7.4	3.00 V	40	45.8	0.8
3	*5230.00	107.0 PK			3.40 V	30	68.2	38.8
4	*5230.00	97.4 AV			3.40 V	30	58.6	38.8
5	#10460.00	56.3 PK	74.0	-17.7	2.33 V	333	43.0	13.3
6	#10460.00	43.5 AV	54.0	-10.5	2.33 V	333	30.2	13.3

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.

CHANNEL	TX Channel 151	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	#5648.00	63.1 PK	68.2	-5.1	1.86 H	335	61.4	1.7
2	*5755.00	119.8 PK			1.86 H	335	79.9	39.9
3	*5755.00	110.2 AV			1.86 H	335	70.3	39.9
4	#5964.00	61.6 PK	68.2	-6.6	1.86 H	335	58.9	2.7
5	11510.00	59.3 PK	74.0	-14.7	1.23 H	348	44.8	14.5
6	11510.00	45.7 AV	54.0	-8.3	1.23 H	348	31.2	14.5
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	#5648.80	55.4 PK	68.2	-12.8	3.29 V	15	53.7	1.7
2	*5755.00	107.8 PK			3.29 V	15	67.9	39.9
3	*5755.00	98.3 AV			3.29 V	15	58.4	39.9
4	#5978.40	56.0 PK	68.2	-12.2	3.29 V	15	53.2	2.8
5	11510.00	59.4 PK	74.0	-14.6	3.33 V	78	44.9	14.5
6	11510.00	45.6 AV	54.0	-8.4	3.33 V	78	31.1	14.5

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.

CHANNEL	TX Channel 159	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	#5648.80	60.4 PK	68.2	-7.8	1.18 H	353	58.7	1.7
2	*5795.00	119.9 PK			1.18 H	343	79.8	40.1
3	*5795.00	110.5 AV			1.18 H	343	70.4	40.1
4	#5967.20	61.6 PK	68.2	-6.6	1.18 H	353	58.9	2.7
5	11590.00	59.1 PK	74.0	-14.9	1.78 H	336	44.8	14.3
6	11590.00	45.4 AV	54.0	-8.6	1.78 H	336	31.1	14.3
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	#5649.60	55.7 PK	68.2	-12.5	3.43 V	15	54.0	1.7
2	*5795.00	106.9 PK			3.43 V	15	66.8	40.1
3	*5795.00	97.0 AV			3.43 V	15	56.9	40.1
4	#5940.00	57.0 PK	68.2	-11.2	3.43 V	15	54.4	2.6
5	11590.00	58.4 PK	74.0	-15.6	3.13 V	59	44.1	14.3
6	11590.00	45.3 AV	54.0	-8.7	3.13 V	59	31.0	14.3

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.

802.11ac (VHT80)

CHANNEL	TX Channel 42	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	63.9 PK	74.0	-10.1	1.85 H	349	63.1	0.8
2	5150.00	52.3 AV	54.0	-1.7	1.85 H	349	51.5	0.8
3	*5210.00	109.2 PK			1.82 H	353	70.5	38.7
4	*5210.00	99.9 AV			1.82 H	353	61.2	38.7
5	5350.00	56.6 PK	74.0	-17.4	1.79 H	339	55.5	1.1
6	5350.00	48.2 AV	54.0	-5.8	1.79 H	339	47.1	1.1
7	#10420.00	55.5 PK	74.0	-18.5	2.05 H	244	42.6	12.9
8	#10420.00	42.6 AV	54.0	-11.4	2.05 H	244	29.7	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	54.9 PK	74.0	-19.1	2.96 V	39	54.1	0.8
2	5150.00	43.5 AV	54.0	-10.5	2.96 V	39	42.7	0.8
3	*5210.00	98.8 PK			3.28 V	31	60.1	38.7
4	*5210.00	88.8 AV			3.28 V	31	50.1	38.7
5	5350.00	54.5 PK	74.0	-19.5	2.29 V	28	53.4	1.1
6	5350.00	42.9 AV	54.0	-11.1	2.29 V	28	41.8	1.1
7	#10420.00	55.2 PK	74.0	-18.8	2.00 V	267	42.3	12.9
8	#10420.00	42.3 AV	54.0	-11.7	2.00 V	267	29.4	12.9

Remarks:

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 155	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	#5647.20	63.6 PK	68.2	-4.6	1.45 H	356	61.9	1.7
2	#5650.00	66.1 PK	74.0	-7.9	1.24 H	352	64.4	1.7
3	#5650.00	52.3 AV	54.0	-1.7	1.24 H	352	50.6	1.7
4	*5775.00	114.5 PK			1.45 H	356	74.5	40.0
5	*5775.00	104.9 AV			1.45 H	356	64.9	40.0
6	#5925.00	66.1 PK	74.0	-7.9	1.32 H	347	63.5	2.6
7	#5925.00	51.0 AV	54.0	-3.0	1.32 H	347	48.4	2.6
8	#5925.60	63.9 PK	68.2	-4.3	1.45 H	356	61.3	2.6
9	11550.00	58.8 PK	74.0	-15.2	1.36 H	312	44.3	14.5
10	11550.00	45.7 AV	54.0	-8.3	1.36 H	312	31.2	14.5
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	#5632.00	56.0 PK	68.2	-12.2	3.43 V	13	54.3	1.7
2	#5650.00	53.6 PK	74.0	-20.4	3.06 V	19	51.9	1.7
3	#5650.00	42.0 AV	54.0	-12.0	3.06 V	19	40.3	1.7
4	*5775.00	102.9 PK			3.43 V	13	62.9	40.0
5	*5775.00	93.2 AV			3.43 V	13	53.2	40.0
6	#5925.00	57.2 PK	74.0	-16.8	3.44 V	12	54.6	2.6
7	#5925.00	42.8 AV	54.0	-11.2	3.44 V	12	40.2	2.6
8	#5985.60	56.3 PK	68.2	-11.9	3.43 V	13	53.5	2.8
9	11550.00	58.7 PK	74.0	-15.3	3.18 V	20	44.2	14.5
10	11550.00	45.8 AV	54.0	-8.2	3.18 V	20	31.3	14.5

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.

Test Mode K

802.11a

CHANNEL	TX Channel 36	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	69.3 PK	74.0	-4.7	2.89 H	42	68.5	0.8
2	**5150.00**	**52.9 AV**	**54.0**	**-1.1**	**2.89 H**	**42**	**52.1**	**0.8**
3	*5180.00	114.8 PK			2.55 H	36	76.1	38.7
4	*5180.00	104.7 AV			2.55 H	36	66.0	38.7
5	#10360.00	57.2 PK	74.0	-16.8	2.13 H	279	44.5	12.7
6	#10360.00	44.4 AV	54.0	-9.6	2.13 H	279	31.7	12.7
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	5150.00	61.0 PK	74.0	-13.0	2.94 V	329	60.2	0.8
2	5150.00	48.1 AV	54.0	-5.9	2.94 V	329	47.3	0.8
3	*5180.00	111.1 PK			3.60 V	0	72.4	38.7
4	*5180.00	101.2 AV			3.60 V	0	62.5	38.7
5	#10360.00	56.7 PK	74.0	-17.3	2.56 V	97	44.0	12.7
6	#10360.00	44.3 AV	54.0	-9.7	2.56 V	97	31.6	12.7

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 40	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	*5200.00	117.5 PK			2.54 H	40	78.8	38.7
2	*5200.00	107.0 AV			2.54 H	40	68.3	38.7
3	#10400.00	57.8 PK	74.0	-16.2	2.19 H	195	45.1	12.7
4	#10400.00	44.7 AV	54.0	-9.3	2.19 H	195	32.0	12.7
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	*5200.00	114.5 PK			3.58 V	0	75.8	38.7
2	*5200.00	104.4 AV			3.58 V	0	65.7	38.7
3	#10400.00	57.7 PK	74.0	-16.3	2.58 V	321	45.0	12.7
4	#10400.00	44.6 AV	54.0	-9.4	2.58 V	321	31.9	12.7

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 48	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	*5240.00	118.1 PK			2.61 H	39	79.3	38.8
2	*5240.00	107.9 AV			2.61 H	39	69.1	38.8
3	5350.00	56.2 PK	74.0	-17.8	2.99 H	87	55.1	1.1
4	5350.00	43.9 AV	54.0	-10.1	2.99 H	87	42.8	1.1
5	#10480.00	57.5 PK	74.0	-16.5	2.22 H	301	44.0	13.5
6	#10480.00	45.0 AV	54.0	-9.0	2.22 H	301	31.5	13.5
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	*5240.00	113.4 PK			3.51 V	10	74.6	38.8
2	*5240.00	103.5 AV			3.51 V	10	64.7	38.8
3	5350.00	53.7 PK	74.0	-20.3	3.03 V	292	52.6	1.1
4	5350.00	41.8 AV	54.0	-12.2	3.03 V	292	40.7	1.1
5	#10480.00	57.1 PK	74.0	-16.9	2.03 V	289	43.6	13.5
6	#10480.00	45.0 AV	54.0	-9.0	2.03 V	289	31.5	13.5

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.

CHANNEL	TX Channel 149	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	#5648.80	56.6 PK	68.2	-11.6	1.66 H	286	54.9	1.7
2	*5745.00	118.2 PK			1.66 H	286	78.3	39.9
3	*5745.00	108.6 AV			1.66 H	286	68.7	39.9
4	#5931.20	57.7 PK	68.2	-10.5	1.66 H	286	55.1	2.6
5	11490.00	58.8 PK	74.0	-15.2	2.24 H	201	44.3	14.5
6	11490.00	46.4 AV	54.0	-7.6	2.24 H	201	31.9	14.5
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	#5636.80	56.5 PK	68.2	-11.7	3.67 V	15	54.8	1.7
2	*5745.00	113.4 PK			3.67 V	15	73.5	39.9
3	*5745.00	103.0 AV			3.67 V	15	63.1	39.9
4	#5963.20	57.4 PK	68.2	-10.8	3.67 V	15	54.8	2.6
5	11490.00	59.0 PK	74.0	-15.0	1.70 V	134	44.5	14.5
6	11490.00	45.5 AV	54.0	-8.5	1.70 V	134	31.0	14.5

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.

CHANNEL	TX Channel 157	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	#5636.00	56.1 PK	68.2	-12.1	1.79 H	287	54.4	1.7
2	*5785.00	117.6 PK			1.79 H	287	77.5	40.1
3	*5785.00	108.1 AV			1.79 H	287	68.0	40.1
4	#5996.80	57.3 PK	68.2	-10.9	1.79 H	287	54.5	2.8
5	11570.00	58.7 PK	74.0	-15.3	2.14 H	205	44.4	14.3
6	11570.00	45.8 AV	54.0	-8.2	2.14 H	205	31.5	14.3
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	#5604.00	55.7 PK	68.2	-12.5	3.84 V	7	54.0	1.7
2	*5785.00	115.1 PK			3.84 V	7	75.0	40.1
3	*5785.00	104.8 AV			3.84 V	7	64.7	40.1
4	#5982.40	56.8 PK	68.2	-11.4	3.84 V	7	54.0	2.8
5	11570.00	59.2 PK	74.0	-14.8	1.51 V	127	44.9	14.3
6	11570.00	46.1 AV	54.0	-7.9	1.51 V	127	31.8	14.3

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.

CHANNEL	TX Channel 165	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	#5604.80	56.8 PK	68.2	-11.4	1.66 H	291	55.1	1.7
2	*5825.00	117.8 PK			1.66 H	291	77.6	40.2
3	*5825.00	107.9 AV			1.66 H	291	67.7	40.2
4	#5947.20	57.1 PK	68.2	-11.1	1.66 H	291	54.5	2.6
5	11650.00	59.2 PK	74.0	-14.8	2.22 H	189	44.8	14.4
6	11650.00	46.3 AV	54.0	-7.7	2.22 H	189	31.9	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	56.2 PK	68.2	-12.0	3.70 V	15	54.5	1.7
2	*5825.00	113.3 PK			3.70 V	15	73.1	40.2
3	*5825.00	103.5 AV			3.70 V	15	63.3	40.2
4	#5975.20	57.3 PK	68.2	-10.9	3.70 V	15	54.5	2.8
5	11650.00	59.1 PK	74.0	-14.9	1.80 V	123	44.7	14.4
6	11650.00	45.8 AV	54.0	-8.2	1.80 V	123	31.4	14.4

Remarks:

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 36	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	67.7 PK	74.0	-6.3	2.93 H	287	66.9	0.8
2	5150.00	52.2 AV	54.0	-1.8	2.93 H	287	51.4	0.8
3	*5180.00	119.8 PK			2.06 H	283	81.1	38.7
4	*5180.00	108.5 AV			2.06 H	283	69.8	38.7
5	#10360.00	57.0 PK	74.0	-17.0	1.78 H	294	44.3	12.7
6	#10360.00	44.5 AV	54.0	-9.5	1.78 H	294	31.8	12.7
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	5150.00	62.2 PK	74.0	-11.8	3.19 V	0	61.4	0.8
2	5150.00	46.8 AV	54.0	-7.2	3.19 V	0	46.0	0.8
3	*5180.00	111.1 PK			3.59 V	2	72.4	38.7
4	*5180.00	658.7 AV			3.59 V	2	620.0	38.7
5	#10360.00	56.9 PK	74.0	-17.1	2.10 V	345	44.2	12.7
6	#10360.00	44.3 AV	54.0	-9.7	2.10 V	345	31.6	12.7

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 40	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	*5200.00	120.2 PK			2.83 H	65	81.5	38.7
2	*5200.00	109.7 AV			2.83 H	65	71.0	38.7
3	#10400.00	57.3 PK	74.0	-16.7	2.44 H	179	44.6	12.7
4	#10400.00	44.5 AV	54.0	-9.5	2.44 H	179	31.8	12.7
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	*5200.00	114.5 PK			3.55 V	358	75.8	38.7
2	*5200.00	104.2 AV			3.55 V	358	65.5	38.7
3	#10400.00	57.4 PK	74.0	-16.6	2.61 V	287	44.7	12.7
4	#10400.00	44.4 AV	54.0	-9.6	2.61 V	287	31.7	12.7

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 48	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	*5240.00	119.1 PK			2.58 H	40	80.3	38.8
2	*5240.00	108.3 AV			2.58 H	40	69.5	38.8
3	5350.00	55.9 PK	74.0	-18.1	2.10 H	311	54.8	1.1
4	5350.00	43.7 AV	54.0	-10.3	2.10 H	311	42.6	1.1
5	#10480.00	58.3 PK	74.0	-15.7	2.34 H	154	44.8	13.5
6	#10480.00	44.8 AV	54.0	-9.2	2.34 H	154	31.3	13.5
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	*5240.00	113.2 PK			3.68 V	7	74.4	38.8
2	*5240.00	103.1 AV			3.68 V	7	64.3	38.8
3	5350.00	53.7 PK	74.0	-20.3	1.89 V	189	52.6	1.1
4	5350.00	41.7 AV	54.0	-12.3	1.89 V	189	40.6	1.1
5	#10480.00	56.8 PK	74.0	-17.2	2.22 V	90	43.3	13.5
6	#10480.00	43.8 AV	54.0	-10.2	2.22 V	90	30.3	13.5

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.

CHANNEL	TX Channel 149	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	#5632.00	55.5 PK	68.2	-12.7	1.92 H	288	53.8	1.7
2	*5745.00	119.2 PK			1.92 H	288	79.3	39.9
3	*5745.00	108.2 AV			1.92 H	288	68.3	39.9
4	#5964.80	56.3 PK	68.2	-11.9	1.92 H	288	53.6	2.7
5	11490.00	59.7 PK	74.0	-14.3	2.06 H	135	45.2	14.5
6	11490.00	46.6 AV	54.0	-7.4	2.06 H	135	32.1	14.5
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	#5609.60	55.3 PK	68.2	-12.9	3.77 V	19	53.6	1.7
2	*5745.00	113.7 PK			3.77 V	19	73.8	39.9
3	*5745.00	103.3 AV			3.77 V	19	63.4	39.9
4	#6000.00	56.2 PK	68.2	-12.0	3.77 V	19	53.4	2.8
5	11490.00	59.1 PK	74.0	-14.9	1.70 V	121	44.6	14.5
6	11490.00	46.0 AV	54.0	-8.0	1.70 V	121	31.5	14.5

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.

CHANNEL	TX Channel 157	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	#5635.20	56.3 PK	68.2	-11.9	1.84 H	293	54.6	1.7
2	*5785.00	117.8 PK			1.84 H	293	77.7	40.1
3	*5785.00	107.6 AV			1.84 H	293	67.5	40.1
4	#5979.20	57.2 PK	68.2	-11.0	1.84 H	293	54.4	2.8
5	11570.00	59.7 PK	74.0	-14.3	2.00 H	220	45.4	14.3
6	11570.00	46.5 AV	54.0	-7.5	2.00 H	220	32.2	14.3
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	#5642.40	55.4 PK	68.2	-12.8	3.80 V	12	53.7	1.7
2	*5785.00	114.9 PK			3.80 V	12	74.8	40.1
3	*5785.00	104.9 AV			3.80 V	12	64.8	40.1
4	#5971.20	56.8 PK	68.2	-11.4	3.80 V	12	54.1	2.7
5	11570.00	58.7 PK	74.0	-15.3	1.56 V	170	44.4	14.3
6	11570.00	45.6 AV	54.0	-8.4	1.56 V	170	31.3	14.3

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.

CHANNEL	TX Channel 165	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	#5616.00	55.3 PK	68.2	-12.9	1.82 H	289	53.6	1.7
2	*5825.00	117.8 PK			1.82 H	289	77.6	40.2
3	*5825.00	107.2 AV			1.82 H	289	67.0	40.2
4	#5956.80	56.4 PK	68.2	-11.8	1.82 H	289	53.8	2.6
5	11650.00	59.7 PK	74.0	-14.3	1.95 H	156	45.3	14.4
6	11650.00	46.4 AV	54.0	-7.6	1.95 H	156	32.0	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5611.20	56.1 PK	68.2	-12.1	3.90 V	8	54.4	1.7
2	*5825.00	114.3 PK			3.90 V	8	74.1	40.2
3	*5825.00	104.5 AV			3.90 V	8	64.3	40.2
4	#5968.00	57.0 PK	68.2	-11.2	3.90 V	8	54.3	2.7
5	11650.00	58.5 PK	74.0	-15.5	1.59 V	168	44.1	14.4
6	11650.00	45.5 AV	54.0	-8.5	1.59 V	168	31.1	14.4

Remarks:

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 38	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	64.3 PK	74.0	-9.7	1.97 H	280	63.5	0.8
2	5150.00	52.3 AV	54.0	-1.7	1.97 H	280	51.5	0.8
3	*5190.00	109.0 PK			2.68 H	65	70.3	38.7
4	*5190.00	99.7 AV			2.68 H	65	61.0	38.7
5	#10380.00	56.6 PK	74.0	-17.4	2.28 H	177	43.8	12.8
6	#10380.00	44.0 AV	54.0	-10.0	2.28 H	177	31.2	12.8
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	5150.00	60.0 PK	74.0	-14.0	3.08 V	340	59.2	0.8
2	5150.00	47.1 AV	54.0	-6.9	3.08 V	340	46.3	0.8
3	*5190.00	105.4 PK			3.56 V	358	66.7	38.7
4	*5190.00	96.3 AV			3.56 V	358	57.6	38.7
5	#10380.00	56.1 PK	74.0	-17.9	2.59 V	277	43.3	12.8
6	#10380.00	43.6 AV	54.0	-10.4	2.59 V	277	30.8	12.8

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 46	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	66.9 PK	74.0	-7.1	1.96 H	284	66.1	0.8
2	5150.00	52.2 AV	54.0	-1.8	1.96 H	284	51.4	0.8
3	*5230.00	114.2 PK			2.78 H	285	75.4	38.8
4	*5230.00	105.2 AV			2.78 H	285	66.4	38.8
5	5350.00	58.4 PK	74.0	-15.6	2.80 H	81	57.3	1.1
6	5350.00	44.8 AV	54.0	-9.2	2.80 H	81	43.7	1.1
7	#10460.00	57.2 PK	74.0	-16.8	1.98 H	126	43.9	13.3
8	#10460.00	44.5 AV	54.0	-9.5	1.98 H	126	31.2	13.3
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	5150.00	60.1 PK	74.0	-13.9	2.89 V	314	59.3	0.8
2	5150.00	46.9 AV	54.0	-7.1	2.89 V	314	46.1	0.8
3	*5230.00	110.0 PK			3.69 V	353	71.2	38.8
4	*5230.00	100.8 AV			3.69 V	353	62.0	38.8
5	5350.00	52.2 PK	74.0	-21.8	3.07 V	321	51.1	1.1
6	5350.00	41.1 AV	54.0	-12.9	3.07 V	321	40.0	1.1
7	#10460.00	56.9 PK	74.0	-17.1	2.05 V	122	43.6	13.3
8	#10460.00	44.1 AV	54.0	-9.9	2.05 V	122	30.8	13.3

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.

CHANNEL	TX Channel 151	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	#5644.00	56.5 PK	68.2	-11.7	1.74 H	283	54.8	1.7
2	#5650.00	60.1 PK	68.2	-8.1	1.67 H	287	58.4	1.7
3	*5755.00	114.8 PK			1.74 H	283	74.9	39.9
4	*5755.00	105.9 AV			1.74 H	283	66.0	39.9
5	#5957.60	56.5 PK	68.2	-11.7	1.74 H	283	53.9	2.6
6	11510.00	58.1 PK	74.0	-15.9	2.33 H	215	43.6	14.5
7	11510.00	45.0 AV	54.0	-9.0	2.33 H	215	30.5	14.5
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	#5644.00	56.9 PK	68.2	-11.3	3.64 V	10	55.2	1.7
2	#5650.00	57.2 PK	68.2	-11.0	3.00 V	19	55.5	1.7
3	*5755.00	111.1 PK			3.64 V	10	71.2	39.9
4	*5755.00	101.9 AV			3.64 V	10	62.0	39.9
5	#5973.60	57.4 PK	68.2	-10.8	3.64 V	10	54.7	2.7
6	11510.00	57.1 PK	74.0	-16.9	1.88 V	150	42.6	14.5
7	11510.00	44.0 AV	54.0	-10.0	1.88 V	150	29.5	14.5

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.

CHANNEL	TX Channel 159	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	#5614.40	56.4 PK	68.2	-11.8	1.61 H	294	54.7	1.7
2	*5795.00	114.4 PK			1.61 H	294	74.3	40.1
3	*5795.00	105.2 AV			1.61 H	294	65.1	40.1
4	#5925.00	58.1 PK	68.2	-10.1	1.89 H	182	55.5	2.6
5	#5967.20	56.6 PK	68.2	-11.6	1.61 H	294	53.9	2.7
6	11590.00	58.1 PK	74.0	-15.9	2.40 H	256	43.8	14.3
7	11590.00	45.0 AV	54.0	-9.0	2.40 H	256	30.7	14.3
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	#5638.40	56.1 PK	68.2	-12.1	3.76 V	0	54.4	1.7
2	*5795.00	111.2 PK			3.76 V	0	71.1	40.1
3	*5795.00	101.7 AV			3.76 V	0	61.6	40.1
4	#5925.00	58.3 PK	68.2	-9.9	3.70 V	359	55.7	2.6
5	#5945.60	57.1 PK	68.2	-11.1	3.76 V	0	54.5	2.6
6	11590.00	57.0 PK	74.0	-17.0	1.70 V	124	42.7	14.3
7	11590.00	44.0 AV	54.0	-10.0	1.70 V	124	29.7	14.3

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.

802.11ac (VHT80)

CHANNEL	TX Channel 42	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	63.1 PK	74.0	-10.9	2.74 H	40	62.3	0.8
2	5150.00	52.3 AV	54.0	-1.7	2.74 H	40	51.5	0.8
3	*5210.00	106.7 PK			2.71 H	67	68.0	38.7
4	*5210.00	97.0 AV			2.71 H	67	58.3	38.7
5	5350.00	57.4 PK	74.0	-16.6	2.51 H	275	56.3	1.1
6	5350.00	43.4 AV	54.0	-10.6	2.51 H	275	42.3	1.1
7	#10420.00	56.7 PK	74.0	-17.3	2.01 H	223	43.8	12.9
8	#10420.00	43.7 AV	54.0	-10.3	2.01 H	223	30.8	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	57.5 PK	74.0	-16.5	3.19 V	340	56.7	0.8
2	5150.00	45.2 AV	54.0	-8.8	3.19 V	340	44.4	0.8
3	*5210.00	103.0 PK			3.58 V	0	64.3	38.7
4	*5210.00	92.5 AV			3.58 V	0	53.8	38.7
5	5350.00	52.8 PK	74.0	-21.2	2.98 V	359	51.7	1.1
6	5350.00	42.0 AV	54.0	-12.0	2.98 V	359	40.9	1.1
7	#10420.00	55.4 PK	74.0	-18.6	2.55 V	180	42.5	12.9
8	#10420.00	42.8 AV	54.0	-11.2	2.55 V	180	29.9	12.9

Remarks:

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 155	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	#5649.60	61.7 PK	68.2	-6.5	1.65 H	291	60.0	1.7
2	#5650.00	66.7 PK	68.2	-1.5	1.65 H	292	65.0	1.7
3	*5775.00	110.5 PK			1.65 H	291	70.5	40.0
4	*5775.00	101.3 AV			1.65 H	291	61.3	40.0
5	#5925.00	61.2 PK	68.2	-7.0	1.70 H	284	58.6	2.6
6	#5934.40	59.8 PK	68.2	-8.4	1.65 H	291	57.2	2.6
7	11550.00	57.3 PK	74.0	-16.7	2.44 H	269	42.8	14.5
8	11550.00	45.5 AV	54.0	-8.5	2.44 H	269	31.0	14.5
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	#5649.60	58.1 PK	68.2	-10.1	3.59 V	11	56.4	1.7
2	#5650.00	62.3 PK	68.2	-5.9	3.50 V	349	60.6	1.7
3	*5775.00	106.5 PK			3.59 V	11	66.5	40.0
4	*5775.00	96.6 AV			3.59 V	11	56.6	40.0
5	#5925.00	59.1 PK	68.2	-9.1	3.40 V	355	56.5	2.6
6	#5928.80	58.1 PK	68.2	-10.1	3.59 V	11	55.5	2.6
7	11550.00	56.5 PK	74.0	-17.5	1.59 V	110	42.0	14.5
8	11550.00	44.4 AV	54.0	-9.6	1.59 V	110	29.9	14.5

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.

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.2 QP	40.0	-12.8	1.99 H	107	41.8	-14.6
2	115.45	31.8 QP	43.5	-11.7	1.50 H	262	48.5	-16.7
3	265.16	29.4 QP	46.0	-16.6	1.00 H	215	42.7	-13.3
4	393.48	36.3 QP	46.0	-9.7	1.99 H	202	46.5	-10.2
5	504.31	37.7 QP	46.0	-8.3	1.50 H	131	45.4	-7.7
6	895.11	36.9 QP	46.0	-9.1	1.00 H	97	36.9	0.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	41.57	35.0 QP	40.0	-5.0	1.01 V	127	50.0	-15.0
2	66.84	36.8 QP	40.0	-3.2	1.01 V	31	52.7	-15.9
3	107.67	31.0 QP	43.5	-12.5	1.01 V	296	48.5	-17.5
4	407.09	35.8 QP	46.0	-10.2	1.01 V	134	45.7	-9.9
5	506.25	37.7 QP	46.0	-8.3	1.01 V	136	45.3	-7.6
6	937.88	33.4 QP	46.0	-12.6	2.00 V	64	32.3	1.1

Remarks:

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	70.73	27.7 QP	40.0	-12.3	2.00 H	70	44.1	-16.4
2	105.73	27.3 QP	43.5	-16.2	2.00 H	95	45.0	-17.7
3	154.33	28.1 QP	43.5	-15.4	1.50 H	249	41.8	-13.7
4	395.43	33.0 QP	46.0	-13.0	2.00 H	211	43.1	-10.1
5	504.31	34.5 QP	46.0	-11.5	1.50 H	137	42.2	-7.7
6	900.94	35.4 QP	46.0	-10.6	2.00 H	23	35.2	0.2
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	37.86	37.5 QP	40.0	-2.5	1.00 V	199	52.8	-15.3
2	68.44	36.1 QP	40.0	-3.9	1.00 V	0	52.1	-16.0
3	142.67	25.3 QP	43.5	-18.2	1.00 V	198	39.4	-14.1
4	412.92	34.6 QP	46.0	-11.4	1.00 V	139	44.5	-9.9
5	498.47	35.1 QP	46.0	-10.9	1.00 V	137	43.0	-7.9
6	904.83	37.1 QP	46.0	-8.9	1.49 V	14	36.9	0.2

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	27.7 QP	40.0	-12.3	2.00 H	216	42.3	-14.6
2	125.17	28.5 QP	43.5	-15.0	1.49 H	254	44.3	-15.8
3	202.94	30.2 QP	43.5	-13.3	1.00 H	240	46.6	-16.4
4	311.82	31.7 QP	46.0	-14.3	1.00 H	251	43.4	-11.7
5	467.36	34.8 QP	46.0	-11.2	1.49 H	198	43.2	-8.4
6	519.86	30.6 QP	46.0	-15.4	1.49 H	135	38.0	-7.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	53.31	33.4 QP	40.0	-6.6	1.00 V	19	47.7	-14.3
2	66.84	36.3 QP	40.0	-3.7	1.00 V	40	52.2	-15.9
3	140.72	28.8 QP	43.5	-14.7	1.00 V	147	43.1	-14.3
4	214.61	30.4 QP	43.5	-13.1	1.49 V	186	46.2	-15.8
5	383.76	32.6 QP	46.0	-13.4	1.00 V	165	43.0	-10.4
6	937.88	33.2 QP	46.0	-12.8	1.49 V	16	32.1	1.1

Remarks:

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	D		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.68	28.0 QP	40.0	-12.0	1.00 H	89	43.4	-15.4
2	90.17	32.0 QP	43.5	-11.5	1.49 H	250	51.7	-19.7
3	125.17	28.0 QP	43.5	-15.5	1.49 H	221	43.8	-15.8
4	169.89	29.6 QP	43.5	-13.9	1.49 H	151	43.5	-13.9
5	700.68	38.0 QP	46.0	-8.0	1.00 H	344	41.6	-3.6
6	937.88	32.8 QP	46.0	-13.2	1.00 H	195	31.7	1.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.75	33.6 QP	40.0	-6.4	1.00 V	216	49.0	-15.4
2	66.84	34.4 QP	40.0	-5.6	1.01 V	19	50.3	-15.9
3	125.17	32.1 QP	43.5	-11.4	1.01 V	140	47.9	-15.8
4	249.60	24.1 QP	46.0	-21.9	1.01 V	209	38.1	-14.0
5	700.68	42.4 QP	46.0	-3.6	1.01 V	17	46.0	-3.6
6	939.83	31.4 QP	46.0	-14.6	1.01 V	3	30.3	1.1

Remarks:

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	F		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	27.1 QP	40.0	-12.9	2.00 H	3	41.7	-14.6
2	101.84	28.0 QP	43.5	-15.5	2.00 H	250	46.2	-18.2
3	154.33	29.9 QP	43.5	-13.6	2.00 H	22	43.6	-13.7
4	201.00	31.3 QP	43.5	-12.2	1.00 H	132	47.6	-16.3
5	502.36	32.5 QP	46.0	-13.5	2.00 H	16	40.2	-7.7
6	914.55	36.1 QP	46.0	-9.9	1.50 H	221	35.3	0.8
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	39.62	37.1 QP	40.0	-2.9	1.00 V	190	52.3	-15.2
2	109.62	30.5 QP	43.5	-13.0	1.00 V	146	47.8	-17.3
3	393.48	32.3 QP	46.0	-13.7	1.00 V	145	42.5	-10.2
4	504.31	36.5 QP	46.0	-9.5	1.00 V	171	44.2	-7.7
5	543.19	36.7 QP	46.0	-9.3	1.00 V	166	43.8	-7.1
6	729.84	34.8 QP	46.0	-11.2	1.50 V	51	37.6	-2.8

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	G		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	28.2 QP	40.0	-11.8	2.00 H	68	42.8	-14.6
2	78.51	29.8 QP	40.0	-10.2	2.00 H	233	48.1	-18.3
3	152.39	30.2 QP	43.5	-13.3	2.00 H	56	44.0	-13.8
4	393.48	27.2 QP	46.0	-18.8	1.50 H	268	37.4	-10.2
5	504.31	30.0 QP	46.0	-16.0	2.00 H	11	37.7	-7.7
6	900.00	43.3 QP	46.0	-2.7	1.50 H	305	43.1	0.2
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	47.18	36.6 QP	40.0	-3.4	1.00 V	46	51.1	-14.5
2	105.73	30.0 QP	43.5	-13.5	1.00 V	304	47.7	-17.7
3	164.06	28.1 QP	43.5	-15.4	1.00 V	213	41.8	-13.7
4	249.60	26.2 QP	46.0	-19.8	1.00 V	116	40.2	-14.0
5	397.37	33.3 QP	46.0	-12.7	2.00 V	148	43.5	-10.2
6	504.31	34.7 QP	46.0	-11.3	1.50 V	136	42.4	-7.7

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	H		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	27.6 QP	40.0	-12.4	2.00 H	221	42.2	-14.6
2	152.39	30.3 QP	43.5	-13.2	2.00 H	36	44.1	-13.8
3	206.83	31.1 QP	43.5	-12.4	2.00 H	275	47.4	-16.3
4	393.48	28.9 QP	46.0	-17.1	1.00 H	275	39.1	-10.2
5	502.36	31.9 QP	46.0	-14.1	2.00 H	16	39.6	-7.7
6	729.84	31.3 QP	46.0	-14.7	1.50 H	81	34.1	-2.8
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	41.57	36.6 QP	40.0	-3.4	1.00 V	251	51.6	-15.0
2	107.67	32.3 QP	43.5	-11.2	1.00 V	110	49.8	-17.5
3	208.77	32.0 QP	43.5	-11.5	1.00 V	0	48.2	-16.2
4	393.48	33.9 QP	46.0	-12.1	1.00 V	138	44.1	-10.2
5	504.31	37.0 QP	46.0	-9.0	1.00 V	184	44.7	-7.7
6	900.94	37.6 QP	46.0	-8.4	1.50 V	239	37.4	0.2

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	I		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	27.7 QP	40.0	-12.3	2.00 H	242	42.3	-14.6
2	78.51	30.2 QP	40.0	-9.8	2.00 H	194	48.5	-18.3
3	154.33	30.5 QP	43.5	-13.0	2.00 H	192	44.2	-13.7
4	206.83	25.5 QP	43.5	-18.0	2.00 H	133	41.8	-16.3
5	504.31	29.9 QP	46.0	-16.1	2.00 H	25	37.6	-7.7
6	939.83	33.7 QP	46.0	-12.3	2.00 H	248	32.6	1.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	37.4 QP	40.0	-2.6	1.00 V	51	52.1	-14.7
2	101.84	30.2 QP	43.5	-13.3	1.00 V	308	48.4	-18.2
3	134.89	28.6 QP	43.5	-14.9	1.00 V	91	43.4	-14.8
4	395.43	32.8 QP	46.0	-13.2	1.00 V	144	42.9	-10.1
5	519.86	35.0 QP	46.0	-11.0	1.00 V	188	42.4	-7.4
6	935.94	33.7 QP	46.0	-12.3	1.50 V	117	32.8	0.9

Remarks:

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	J		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	28.0 QP	40.0	-12.0	2.00 H	234	42.6	-14.6
2	101.84	28.1 QP	43.5	-15.4	2.00 H	267	46.3	-18.2
3	154.33	29.8 QP	43.5	-13.7	2.00 H	44	43.5	-13.7
4	206.83	31.4 QP	43.5	-12.1	1.00 H	284	47.7	-16.3
5	393.48	28.9 QP	46.0	-17.1	2.00 H	276	39.1	-10.2
6	502.36	32.0 QP	46.0	-14.0	1.50 H	20	39.7	-7.7
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	39.62	38.3 QP	40.0	-1.7	1.00 V	169	53.5	-15.2
2	109.62	31.0 QP	43.5	-12.5	1.00 V	148	48.3	-17.3
3	148.50	30.0 QP	43.5	-13.5	1.00 V	263	43.8	-13.8
4	206.83	30.5 QP	43.5	-13.0	1.00 V	12	46.8	-16.3
5	393.48	33.5 QP	46.0	-12.5	1.00 V	141	43.7	-10.2
6	502.36	36.7 QP	46.0	-9.3	1.50 V	164	44.4	-7.7

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

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	K		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	78.51	29.4 QP	40.0	-10.6	2.00 H	219	47.7	-18.3
2	101.84	27.0 QP	43.5	-16.5	2.00 H	108	45.2	-18.2
3	154.33	30.2 QP	43.5	-13.3	2.00 H	34	43.9	-13.7
4	204.89	27.7 QP	43.5	-15.8	2.00 H	125	44.1	-16.4
5	393.48	26.2 QP	46.0	-19.8	1.50 H	277	36.4	-10.2
6	504.31	29.5 QP	46.0	-16.5	2.00 H	15	37.2	-7.7
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	37.68	37.3 QP	40.0	-2.7	1.00 V	155	52.7	-15.4
2	103.78	30.6 QP	43.5	-12.9	1.00 V	275	48.6	-18.0
3	152.39	29.2 QP	43.5	-14.3	1.00 V	248	43.0	-13.8
4	397.37	33.9 QP	46.0	-12.1	1.00 V	138	44.1	-10.2
5	504.31	36.0 QP	46.0	-10.0	1.00 V	183	43.7	-7.7
6	856.22	33.6 QP	46.0	-12.4	1.50 V	229	34.2	-0.6

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

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	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 28, 2016	Jul. 27, 2017
			Jul. 28, 2017	Jul. 27, 2018
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 1.
3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

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

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

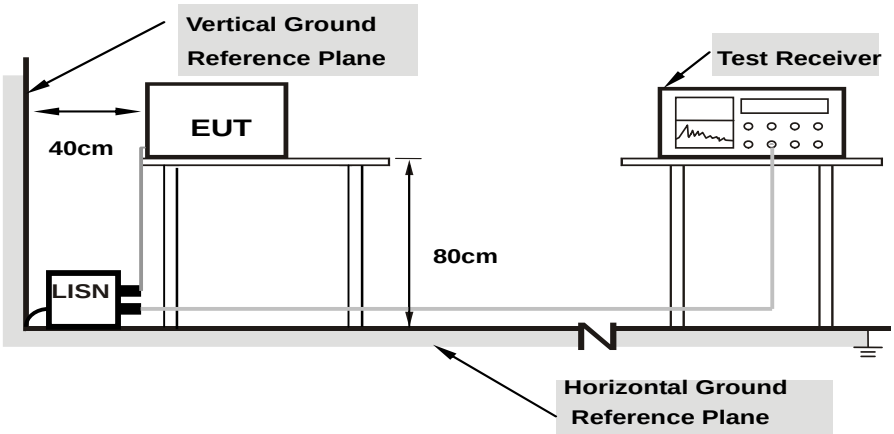
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: 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

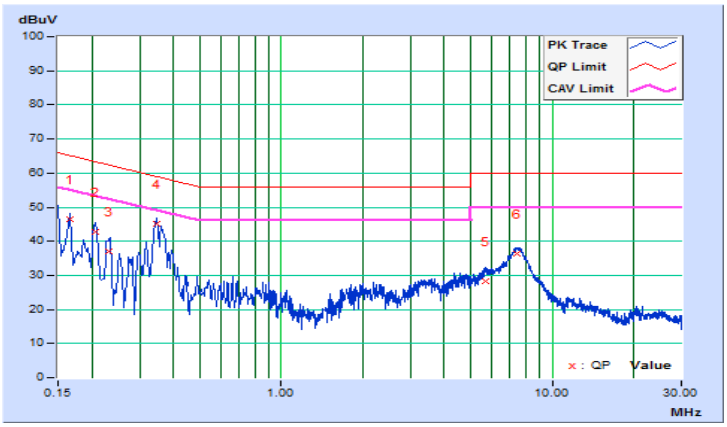
Worst-case data: 802.11a

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

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16535	10.41	35.89	24.98	46.30	35.39	65.19	55.19	-18.89	-19.80
2	0.20523	10.43	32.43	19.73	42.86	30.16	63.40	53.40	-20.54	-23.24
3	0.23045	10.44	26.68	13.57	37.12	24.01	62.43	52.43	-25.31	-28.42
4	0.34486	10.49	34.78	28.80	45.27	39.29	59.09	49.09	-13.82	-9.80
5	5.65800	10.73	17.70	8.27	28.43	19.00	60.00	50.00	-31.57	-31.00
6	7.39000	10.80	25.55	19.25	36.35	30.05	60.00	50.00	-23.65	-19.95

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.

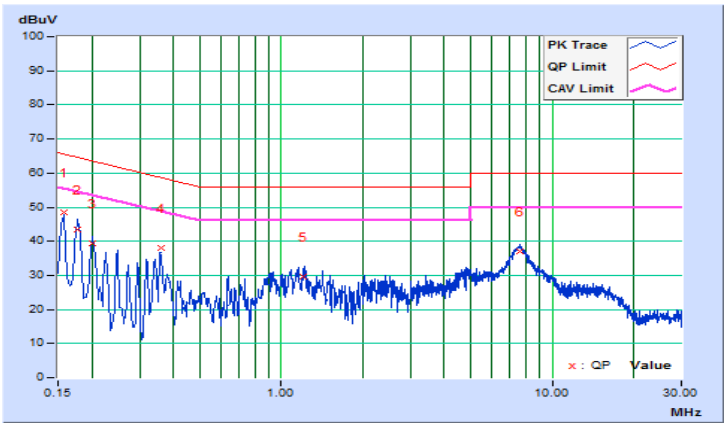


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15687	10.16	38.36	22.73	48.52	32.89	65.63	55.63	-17.11	-22.74
2	0.17615	10.18	33.31	19.42	43.49	29.60	64.67	54.67	-21.18	-25.07
3	0.19989	10.20	29.33	15.39	39.53	25.59	63.62	53.62	-24.09	-28.03
4	0.35876	10.22	27.93	21.06	38.15	31.28	58.76	48.76	-20.61	-17.48
5	1.19906	10.25	19.32	14.03	29.57	24.28	56.00	46.00	-26.43	-21.72
6	7.56181	10.55	26.36	19.96	36.91	30.51	60.00	50.00	-23.09	-19.49

Remarks:

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

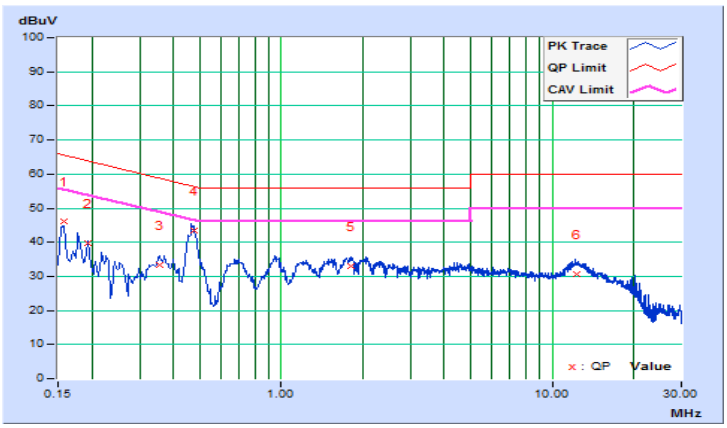


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.15687	10.41	35.77	22.69	46.18	33.10	65.63	55.63	-19.45	-22.53
2	0.19265	10.43	29.29	17.13	39.72	27.56	63.92	53.92	-24.20	-26.36
3	0.35407	10.49	22.98	17.38	33.47	27.87	58.87	48.87	-25.40	-21.00
4	0.47434	10.50	32.98	28.34	43.48	38.84	56.44	46.44	-12.96	-7.60
5	1.79906	10.51	22.40	18.20	32.91	28.71	56.00	46.00	-23.09	-17.29
6	12.25400	11.01	19.59	14.43	30.60	25.44	60.00	50.00	-29.40	-24.56

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.

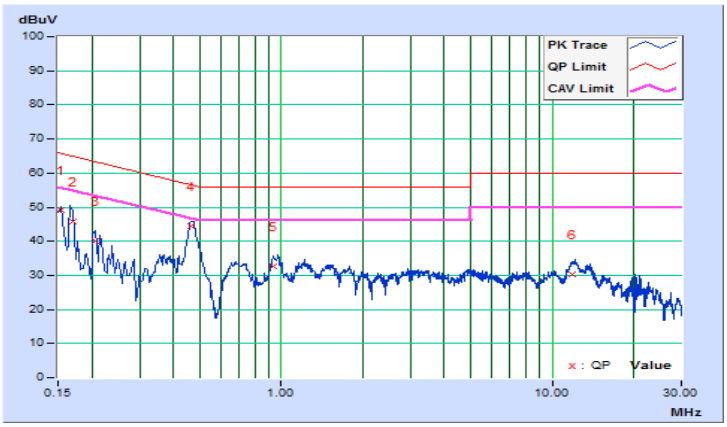


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.15400	10.16	38.88	24.80	49.04	34.96	65.78	55.78	-16.74	-20.82
2	0.17000	10.17	35.66	21.02	45.83	31.19	64.96	54.96	-19.13	-23.77
3	0.20523	10.20	29.95	14.52	40.15	24.72	63.40	53.40	-23.25	-28.68
4	0.46200	10.23	34.17	27.93	44.40	38.16	56.66	46.66	-12.26	-8.50
5	0.93111	10.24	22.40	19.05	32.64	29.29	56.00	46.00	-23.36	-16.71
6	11.80600	10.71	19.73	14.57	30.44	25.28	60.00	50.00	-29.56	-24.72

Remarks:

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

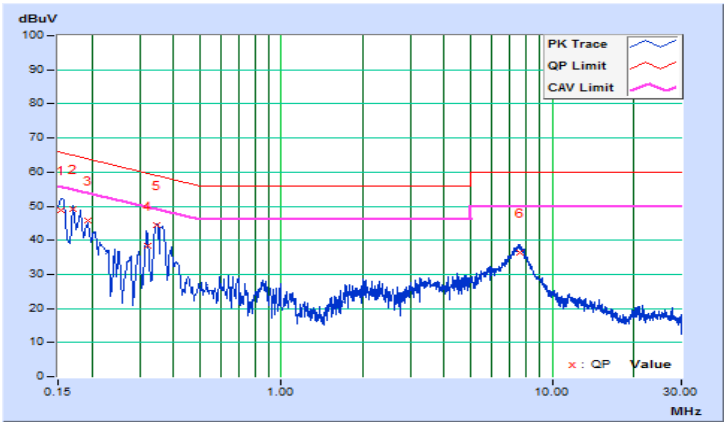


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.15400	10.41	38.45	25.93	48.86	36.34	65.78	55.78	-16.92	-19.44
2	0.16932	10.41	38.88	26.89	49.29	37.30	64.99	54.99	-15.70	-17.69
3	0.19265	10.43	35.22	23.97	45.65	34.40	63.92	53.92	-18.27	-19.52
4	0.32200	10.48	28.04	25.30	38.52	35.78	59.66	49.66	-21.14	-13.88
5	0.34486	10.49	34.12	30.50	44.61	40.99	59.09	49.09	-14.48	-8.10
6	7.57000	10.80	25.65	19.25	36.45	30.05	60.00	50.00	-23.55	-19.95

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.

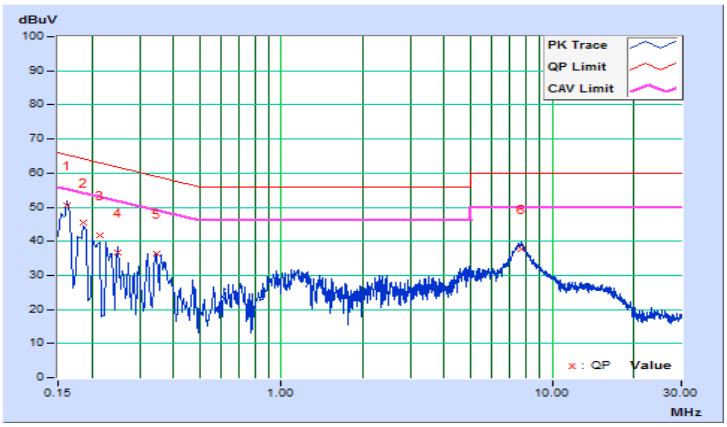


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.16105	10.16	40.21	23.48	50.37	33.64	65.41	55.41	-15.04	-21.77
2	0.18519	10.19	35.18	19.13	45.37	29.32	64.25	54.25	-18.88	-24.93
3	0.21294	10.20	31.62	14.37	41.82	24.57	63.09	53.09	-21.27	-28.52
4	0.24810	10.21	26.53	12.88	36.74	23.09	61.82	51.82	-25.08	-28.73
5	0.34600	10.22	26.03	20.42	36.25	30.64	59.06	49.06	-22.81	-18.42
6	7.66208	10.55	27.08	20.84	37.63	31.39	60.00	50.00	-22.37	-18.61

Remarks:

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

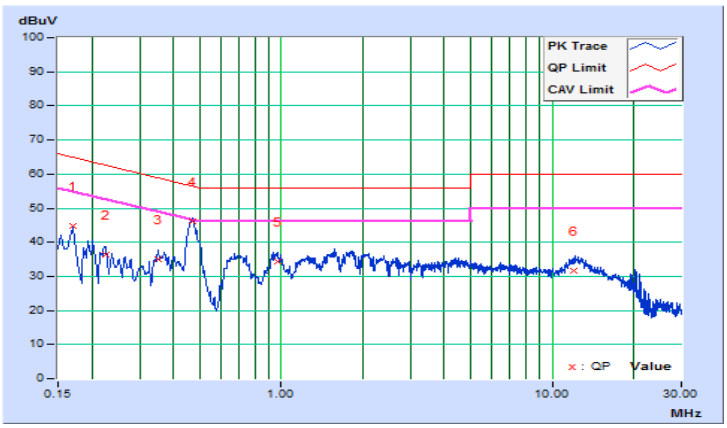


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.16932	10.41	34.52	21.46	44.93	31.87	64.99	54.99	-20.06	-23.12
2	0.22600	10.44	26.00	14.48	36.44	24.92	62.60	52.60	-26.16	-27.68
3	0.34943	10.49	24.48	17.76	34.97	28.25	58.98	48.98	-24.01	-20.73
4	0.46813	10.50	35.58	31.06	46.08	41.56	56.55	46.55	-10.47	-4.99
5	0.96609	10.46	24.04	20.19	34.50	30.65	56.00	46.00	-21.50	-15.35
6	11.94600	11.00	20.65	15.35	31.65	26.35	60.00	50.00	-28.35	-23.65

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.

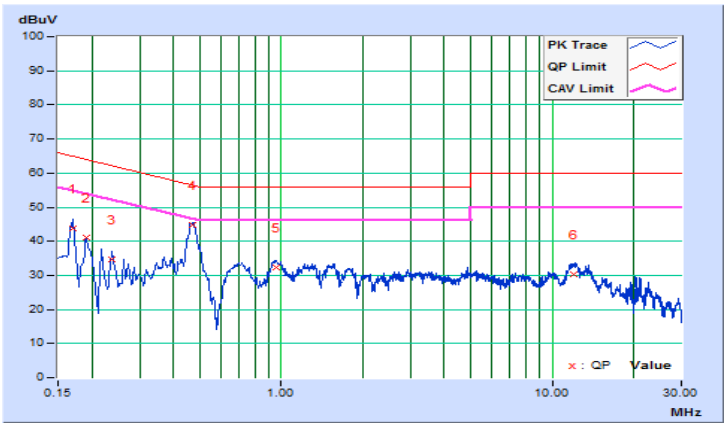


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.16932	10.17	33.62	19.47	43.79	29.64	64.99	54.99	-21.20	-25.35
2	0.19013	10.19	30.96	17.17	41.15	27.36	64.03	54.03	-22.88	-26.67
3	0.23598	10.21	24.41	14.45	34.62	24.66	62.24	52.24	-27.62	-27.58
4	0.46813	10.23	34.63	30.12	44.86	40.35	56.55	46.55	-11.69	-6.20
5	0.95345	10.24	22.20	19.13	32.44	29.37	56.00	46.00	-23.56	-16.63
6	11.95000	10.72	19.59	14.51	30.31	25.23	60.00	50.00	-29.69	-24.77

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.

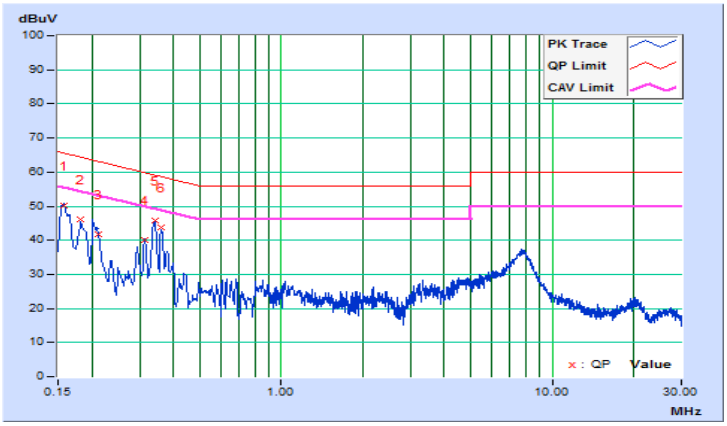


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	F		

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	0.15687	10.41	39.77	25.63	50.18	36.04	65.63	55.63	-15.45	-19.59
2	0.18037	10.42	35.85	23.76	46.27	34.18	64.47	54.47	-18.20	-20.29
3	0.21015	10.43	31.33	18.27	41.76	28.70	63.20	53.20	-21.44	-24.50
4	0.31200	10.47	29.50	27.87	39.97	38.34	59.92	49.92	-19.95	-11.58
5	0.34124	10.49	35.14	28.55	45.63	39.04	59.17	49.17	-13.54	-10.13
6	0.35876	10.49	33.39	30.27	43.88	40.76	58.76	48.76	-14.88	-8.00

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.

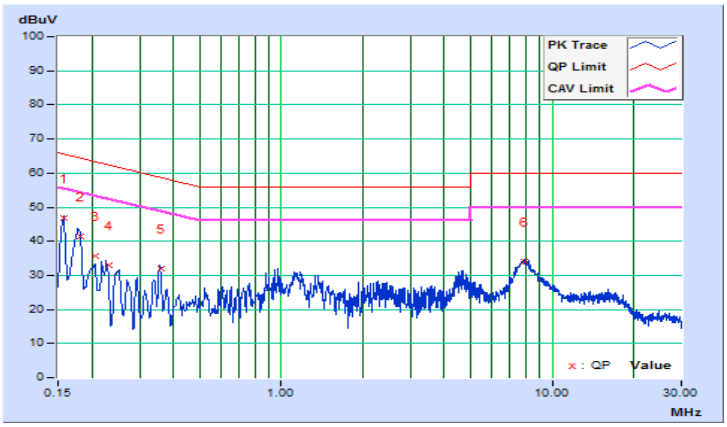


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	F		

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	0.15687	10.16	36.57	20.59	46.73	30.75	65.63	55.63	-18.90	-24.88
2	0.18200	10.18	31.11	16.95	41.29	27.13	64.39	54.39	-23.10	-27.26
3	0.20523	10.20	25.65	12.94	35.85	23.14	63.40	53.40	-27.55	-30.26
4	0.23000	10.20	22.68	8.54	32.88	18.74	62.45	52.45	-29.57	-33.71
5	0.35876	10.22	21.66	17.62	31.88	27.84	58.76	48.76	-26.88	-20.92
6	7.85800	10.56	23.45	17.52	34.01	28.08	60.00	50.00	-25.99	-21.92

Remarks:

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

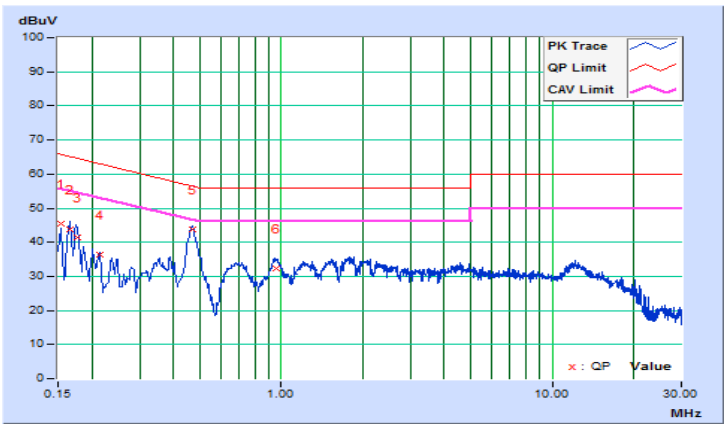


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	G		

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	0.15400	10.41	35.00	21.96	45.41	32.37	65.78	55.78	-20.37	-23.41
2	0.16535	10.41	33.25	19.32	43.66	29.73	65.19	55.19	-21.53	-25.46
3	0.17800	10.42	31.00	18.80	41.42	29.22	64.58	54.58	-23.16	-25.36
4	0.21294	10.44	26.04	14.75	36.48	25.19	63.09	53.09	-26.61	-27.90
5	0.46813	10.50	33.15	28.64	43.65	39.14	56.55	46.55	-12.90	-7.41
6	0.95848	10.46	21.84	18.83	32.30	29.29	56.00	46.00	-23.70	-16.71

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.

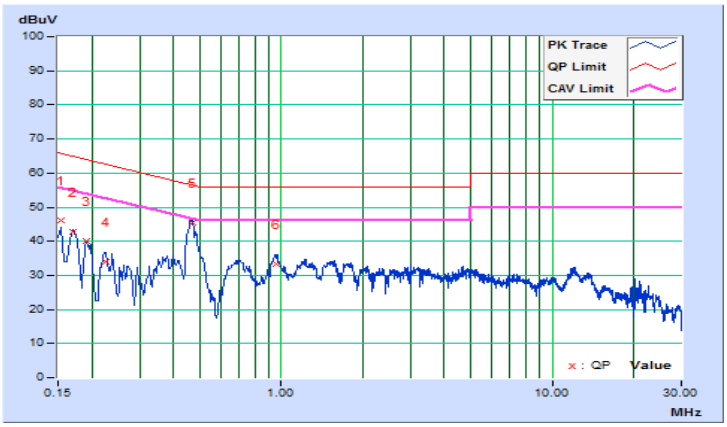


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	G		

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	0.15400	10.16	36.03	22.34	46.19	32.50	65.78	55.78	-19.59	-23.28
2	0.16932	10.17	32.64	18.79	42.81	28.96	64.99	54.99	-22.18	-26.03
3	0.19013	10.19	30.04	16.67	40.23	26.86	64.03	54.03	-23.80	-27.17
4	0.22600	10.20	23.88	11.57	34.08	21.77	62.60	52.60	-28.52	-30.83
5	0.46813	10.23	35.16	30.56	45.39	40.79	56.55	46.55	-11.16	-5.76
6	0.95848	10.24	23.16	20.18	33.40	30.42	56.00	46.00	-22.60	-15.58

Remarks:

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

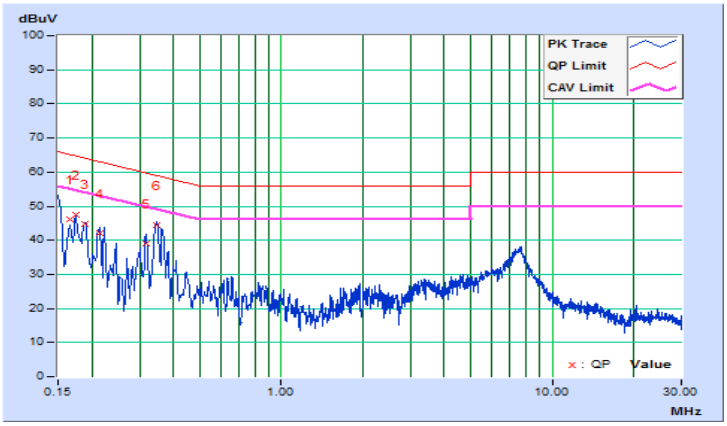


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	H		

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	0.16535	10.41	35.67	24.63	46.08	35.04	65.19	55.19	-19.11	-20.15
2	0.17384	10.42	37.08	25.47	47.50	35.89	64.77	54.77	-17.27	-18.88
3	0.18764	10.42	34.45	22.75	44.87	33.17	64.14	54.14	-19.27	-20.97
4	0.21294	10.44	31.78	18.11	42.22	28.55	63.09	53.09	-20.87	-24.54
5	0.31614	10.48	28.58	26.15	39.06	36.63	59.81	49.81	-20.75	-13.18
6	0.34486	10.49	33.86	28.38	44.35	38.87	59.09	49.09	-14.74	-10.22

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.

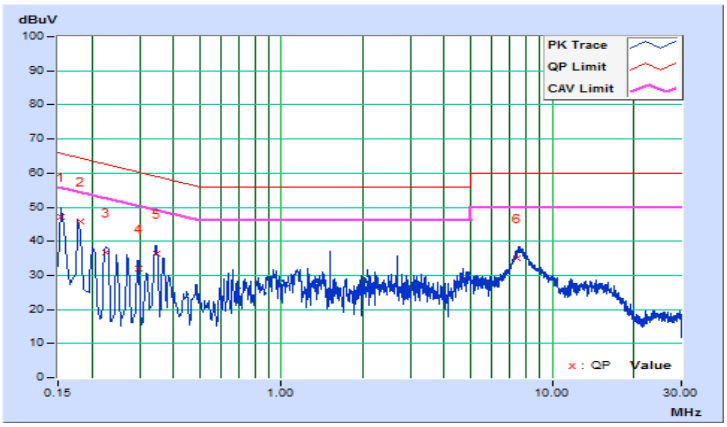


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	H		

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	0.15400	10.16	37.14	23.41	47.30	33.57	65.78	55.78	-18.48	-22.21
2	0.18200	10.18	35.58	20.13	45.76	30.31	64.39	54.39	-18.63	-24.08
3	0.22387	10.20	26.64	12.84	36.84	23.04	62.67	52.67	-25.83	-29.63
4	0.29677	10.21	21.93	12.92	32.14	23.13	60.33	50.33	-28.19	-27.20
5	0.34486	10.22	26.08	20.04	36.30	30.26	59.09	49.09	-22.79	-18.83
6	7.37000	10.54	24.59	18.19	35.13	28.73	60.00	50.00	-24.87	-21.27

Remarks:

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

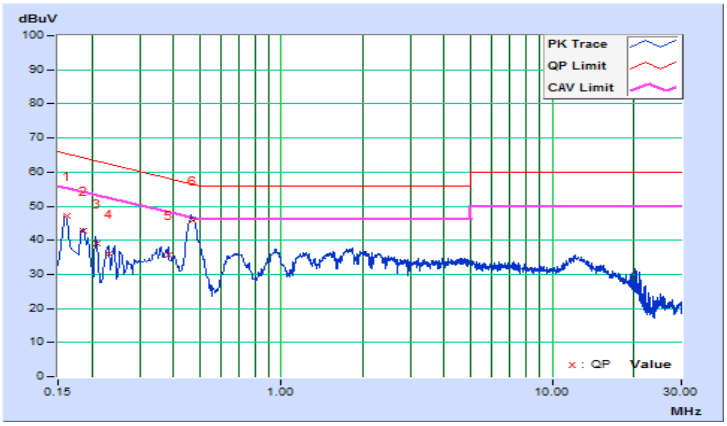


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	I		

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	0.16200	10.41	36.70	23.81	47.11	34.22	65.36	55.36	-18.25	-21.14
2	0.18519	10.42	32.40	20.29	42.82	30.71	64.25	54.25	-21.43	-23.54
3	0.21000	10.43	28.52	16.99	38.95	27.42	63.21	53.21	-24.26	-25.79
4	0.22985	10.44	25.47	14.79	35.91	25.23	62.46	52.46	-26.55	-27.23
5	0.38218	10.50	25.17	19.31	35.67	29.81	58.23	48.23	-22.56	-18.42
6	**0.47000**	**10.50**	**35.39**	**31.12**	**45.89**	**41.62**	**56.51**	**46.51**	**-10.62**	**-4.89**

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.

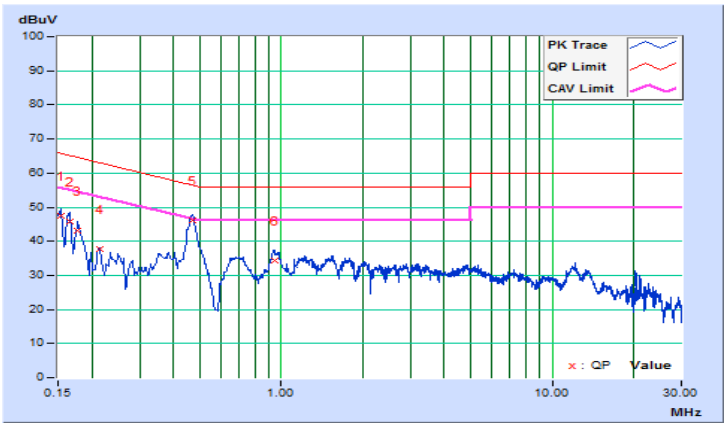


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	I		

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	0.15400	10.16	37.26	23.72	47.42	33.88	65.78	55.78	-18.36	-21.90
2	0.16535	10.17	35.50	21.00	45.67	31.17	65.19	55.19	-19.52	-24.02
3	0.17615	10.18	32.98	20.09	43.16	30.27	64.67	54.67	-21.51	-24.40
4	0.21294	10.20	27.36	14.84	37.56	25.04	63.09	53.09	-25.53	-28.05
5	0.46813	10.23	35.92	31.34	46.15	41.57	56.55	46.55	-10.40	-4.98
6	0.94097	10.24	24.25	20.71	34.49	30.95	56.00	46.00	-21.51	-15.05

Remarks:

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

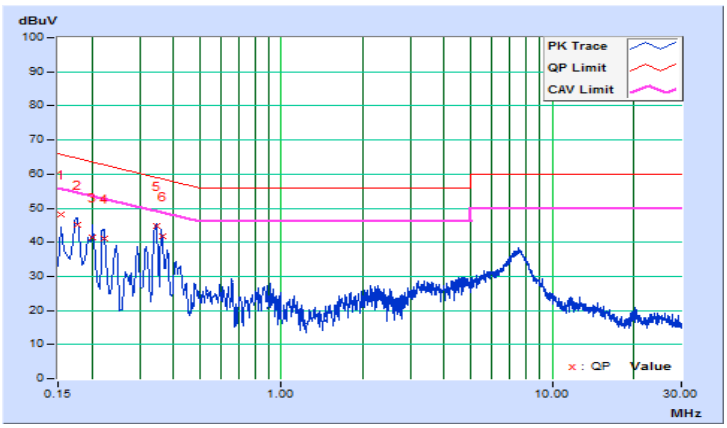


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	J		

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	0.15400	10.41	37.84	25.14	48.25	35.55	65.78	55.78	-17.53	-20.23
2	0.17800	10.42	34.82	23.12	45.24	33.54	64.58	54.58	-19.34	-21.04
3	0.19989	10.43	31.14	20.78	41.57	31.21	63.62	53.62	-22.05	-22.41
4	0.22152	10.44	30.74	17.20	41.18	27.64	62.76	52.76	-21.58	-25.12
5	0.34486	10.49	34.43	28.12	44.92	38.61	59.09	49.09	-14.17	-10.48
6	0.36600	10.50	31.32	27.55	41.82	38.05	58.59	48.59	-16.77	-10.54

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.

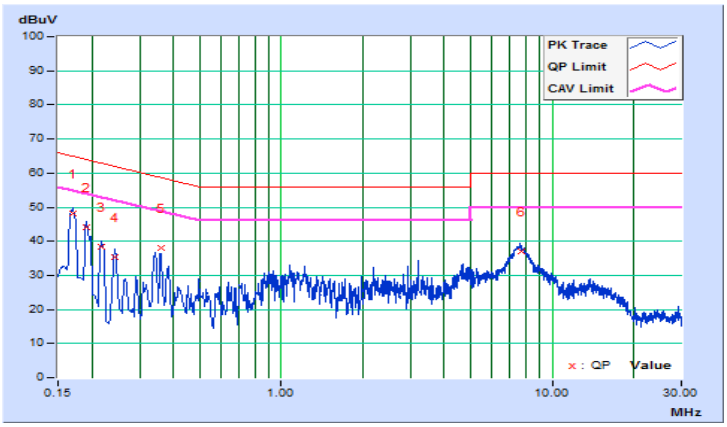


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	J		

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	0.16932	10.17	38.12	23.61	48.29	33.78	64.99	54.99	-16.70	-21.21
2	0.19013	10.19	33.86	19.26	44.05	29.45	64.03	54.03	-19.98	-24.58
3	0.21576	10.20	28.29	14.13	38.49	24.33	62.98	52.98	-24.49	-28.65
4	0.24164	10.21	25.16	10.46	35.37	20.67	62.04	52.04	-26.67	-31.37
5	0.35876	10.22	27.98	20.71	38.20	30.93	58.76	48.76	-20.56	-17.83
6	7.66600	10.55	26.34	19.89	36.89	30.44	60.00	50.00	-23.11	-19.56

Remarks:

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

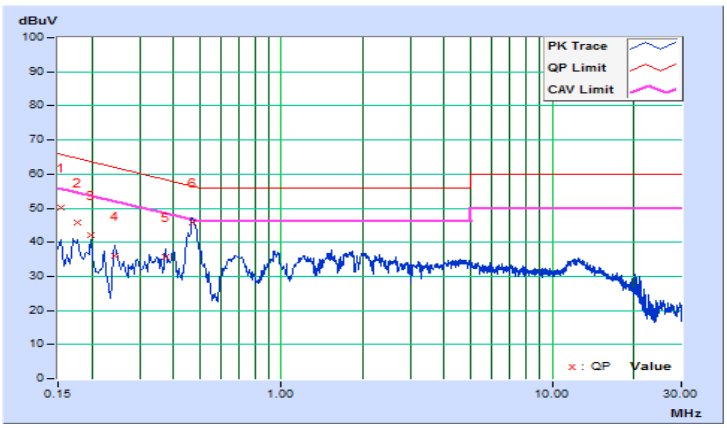


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	K		

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	0.15400	10.41	39.62	26.23	50.03	36.64	65.78	55.78	-15.75	-19.14
2	0.17615	10.42	35.51	22.99	45.93	33.41	64.67	54.67	-18.74	-21.26
3	0.19728	10.43	31.70	19.11	42.13	29.54	63.72	53.72	-21.59	-24.18
4	0.24164	10.45	25.52	15.44	35.97	25.89	62.04	52.04	-26.07	-26.15
5	0.37224	10.50	25.12	18.16	35.62	28.66	58.45	48.45	-22.83	-19.79
6	0.46813	10.50	35.36	30.82	45.86	41.32	56.55	46.55	-10.69	-5.23

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.

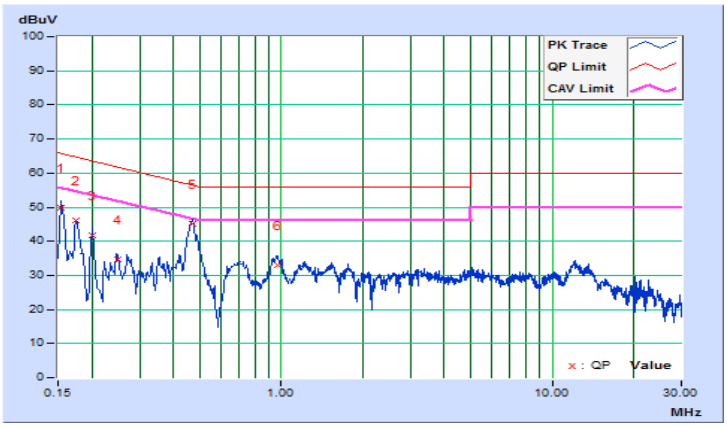


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	K		

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	0.15400	10.16	39.67	25.50	49.83	35.66	65.78	55.78	-15.95	-20.12
2	0.17384	10.18	35.90	21.99	46.08	32.17	64.77	54.77	-18.69	-22.60
3	0.19989	10.20	31.63	17.05	41.83	27.25	63.62	53.62	-21.79	-26.37
4	0.25000	10.21	24.60	13.79	34.81	24.00	61.76	51.76	-26.95	-27.76
5	0.46813	10.23	34.82	30.22	45.05	40.45	56.55	46.55	-11.50	-6.10
6	0.96609	10.24	22.63	18.76	32.87	29.00	56.00	46.00	-23.13	-17.00

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

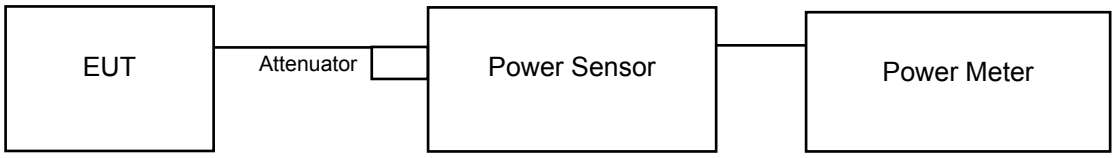
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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 $N_{ANT} \geq 5$.

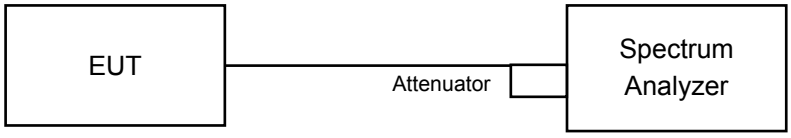
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

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



802.11ac (VHT80)



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)

a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

b. Set sweep trigger to “free run”.

c. Set RBW = 1 MHz.

d. Set VBW ≥ 3 MHz.

e. Number of points in sweep ≥ 2 Span / RBW.

f. Sweep time ≤ (number of points in sweep) * T

g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.

h. Detector = RMS.

i. Trace mode = max hold.

j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

k. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

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

Test Mode B

Power Output:

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				
36	5180	18.21	18.71	140.524	21.48	30.00	Pass
40	5200	21.92	22.36	327.784	25.16	30.00	Pass
48	5240	22.37	22.58	353.718	25.49	30.00	Pass
149	5745	22.94	21.98	354.550	25.50	30.00	Pass
157	5785	22.57	21.89	335.242	25.25	30.00	Pass
165	5825	22.02	21.95	315.896	25.00	30.00	Pass

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				
36	5180	18.34	18.80	144.092	21.59	30.00	Pass
40	5200	21.94	22.46	332.513	25.22	30.00	Pass
48	5240	22.35	22.63	**355.022**	25.50	30.00	Pass
149	5745	22.93	21.91	351.575	25.46	30.00	Pass
157	5785	22.52	21.95	335.324	25.25	30.00	Pass
165	5825	21.96	22.07	318.101	25.03	30.00	Pass

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				
38	5190	15.65	15.93	75.902	18.80	30.00	Pass
46	5230	21.92	22.18	320.793	25.06	30.00	Pass
151	5755	23.32	22.25	**382.663**	25.83	30.00	Pass
159	5795	22.80	22.07	351.611	25.46	30.00	Pass

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				
42	5210	15.11	15.33	66.553	18.23	30.00	Pass
155	5775	22.22	21.15	297.042	24.73	30.00	Pass

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				
36	5180	15.33	15.79	72.111	18.58	27.99	Pass
40	5200	18.93	19.45	166.341	22.21	27.99	Pass
48	5240	19.34	19.62	**177.419**	22.49	27.99	Pass
149	5745	19.92	18.90	175.792	22.45	27.99	Pass
157	5785	19.51	18.94	167.494	22.24	27.99	Pass
165	5825	18.95	19.06	159.221	22.02	27.99	Pass

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power limit shall be reduced to 30-(8.01-6) = 27.99dBm.

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				
38	5190	12.64	12.92	37.931	15.79	27.99	Pass
46	5230	18.91	19.17	160.325	22.05	27.99	Pass
151	5755	20.31	19.24	**191.426**	22.82	27.99	Pass
159	5795	19.79	19.06	175.792	22.45	27.99	Pass

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power limit shall be reduced to 30-(8.01-6) = 27.99dBm.

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				
42	5210	12.10	12.32	33.266	15.22	27.99	Pass
155	5775	19.21	18.14	148.594	21.72	27.99	Pass

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power limit shall be reduced to 30-(8.01-6) = 27.99dBm.

Test Mode D

Power Output:

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				
36	5180	19.86	19.85	193.433	22.87	28.70	Pass
40	5200	22.63	22.11	345.786	25.39	28.70	Pass
48	5240	22.69	22.19	351.357	25.46	28.70	Pass
149	5745	22.85	21.86	346.214	25.39	28.70	Pass
157	5785	22.42	21.83	326.987	25.15	28.70	Pass
165	5825	21.74	21.86	302.741	24.81	28.70	Pass

Note: Gain = 7.3dBi > 6dBi, so the power limit shall be reduced to 30-(7.3-6) = 28.70dBm.

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				
36	5180	19.88	19.89	194.774	22.90	28.70	Pass
40	5200	22.71	22.17	351.454	25.46	28.70	Pass
48	5240	22.72	22.26	355.335	25.51	28.70	Pass
149	5745	22.79	21.86	343.570	25.36	28.70	Pass
157	5785	22.41	21.90	329.063	25.17	28.70	Pass
165	5825	21.79	21.89	305.533	24.85	28.70	Pass

Note: Gain = 7.3dBi > 6dBi, so the power limit shall be reduced to 30-(7.3-6) = 28.70dBm.

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				
38	5190	18.03	17.86	124.627	20.96	28.70	Pass
46	5230	22.91	22.53	**374.495**	25.73	28.70	Pass
151	5755	23.22	22.09	**371.702**	25.70	28.70	Pass
159	5795	22.59	22.06	342.246	25.34	28.70	Pass

Note: Gain = 7.3dBi > 6dBi, so the power limit shall be reduced to 30-(7.3-6) = 28.70dBm.

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				
42	5210	17.52	17.13	108.136	20.34	28.70	Pass
155	5775	20.84	19.62	212.961	23.28	28.70	Pass

Note: Gain = 7.3dBi > 6dBi, so the power limit shall be reduced to 30-(7.3-6) = 28.70dBm.

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				
36	5180	16.87	16.88	97.499	19.89	25.69	Pass
40	5200	19.70	19.16	175.792	22.45	25.69	Pass
48	5240	19.71	19.25	177.828	22.50	25.69	Pass
149	5745	19.78	18.85	171.791	22.35	25.69	Pass
157	5785	19.40	18.89	164.437	22.16	25.69	Pass
165	5825	18.78	18.88	152.757	21.84	25.69	Pass

Note: Directional gain = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power limit shall be reduced to 30-(10.31-6) = 25.69dBm.

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				
38	5190	15.02	14.85	62.373	17.95	25.69	Pass
46	5230	19.90	19.52	**187.068**	22.72	25.69	Pass
151	5755	20.21	19.08	**185.780**	22.69	25.69	Pass
159	5795	19.58	19.05	171.002	22.33	25.69	Pass

Note: Directional gain = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power limit shall be reduced to 30-(10.31-6) = 25.69dBm.

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				
42	5210	14.51	14.12	54.075	17.33	25.69	Pass
155	5775	17.83	16.61	106.414	20.27	25.69	Pass

Note: Directional gain = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power limit shall be reduced to 30-(10.31-6) = 25.69dBm.

Test Mode E

Power Output:

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				
36	5180	19.86	19.85	193.433	22.87	30.00	Pass
40	5200	22.45	22.38	348.774	25.43	30.00	Pass
48	5240	22.69	22.45	361.572	25.58	30.00	Pass
149	5745	22.85	21.86	346.214	25.39	30.00	Pass
157	5785	22.42	21.83	326.987	25.15	30.00	Pass
165	5825	21.74	21.86	302.741	24.81	30.00	Pass

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				
36	5180	19.88	19.89	194.774	22.90	30.00	Pass
40	5200	22.40	22.47	350.384	25.45	30.00	Pass
48	5240	22.77	22.53	368.295	25.66	30.00	Pass
149	5745	22.79	21.86	343.570	25.36	30.00	Pass
157	5785	22.41	21.90	329.063	25.17	30.00	Pass
165	5825	21.79	21.89	305.533	24.85	30.00	Pass

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				
38	5190	18.03	17.86	124.627	20.96	30.00	Pass
46	5230	22.91	22.53	**374.495**	25.73	30.00	Pass
151	5755	23.22	22.09	**371.702**	25.70	30.00	Pass
159	5795	22.59	22.06	342.246	25.34	30.00	Pass

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				
42	5210	17.52	17.13	108.136	20.34	30.00	Pass
155	5775	20.84	19.62	212.961	23.28	30.00	Pass

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				
36	5180	16.87	16.88	97.499	19.89	26.99	Pass
40	5200	19.39	19.46	175.388	22.44	26.99	Pass
48	5240	19.76	19.52	184.077	22.65	26.99	Pass
149	5745	19.78	18.85	171.791	22.35	26.99	Pass
157	5785	19.40	18.89	164.437	22.16	26.99	Pass
165	5825	18.78	18.88	152.757	21.84	26.99	Pass

Note: Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power limit shall be reduced to 30-(9.01-6) = 26.99dBm.

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				
38	5190	15.02	14.85	62.373	17.95	26.99	Pass
46	5230	19.90	19.52	**187.068**	22.72	26.99	Pass
151	5755	20.21	19.08	**185.780**	22.69	26.99	Pass
159	5795	19.58	19.05	171.002	22.33	26.99	Pass

Note: Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power limit shall be reduced to 30-(9.01-6) = 26.99dBm.

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				
42	5210	14.51	14.12	54.075	17.33	26.99	Pass
155	5775	17.83	16.61	106.414	20.27	26.99	Pass

Note: Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power limit shall be reduced to 30-(9.01-6) = 26.99dBm.

Test Mode G

Power Output:

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				
36	5180	19.41	19.21	170.665	22.32	25.30	Pass
40	5200	20.94	20.73	242.469	23.85	25.30	Pass
48	5240	21.22	20.86	254.333	24.05	25.30	Pass
149	5745	22.90	21.41	333.341	25.23	25.30	Pass
157	5785	22.57	21.89	335.242	25.25	25.30	Pass
165	5825	22.02	21.95	315.896	25.00	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
36	5180	18.45	18.21	136.206	21.34	25.30	Pass
40	5200	22.19	21.64	311.458	24.93	25.30	Pass
48	5240	21.79	21.44	290.324	24.63	25.30	Pass
149	5745	22.83	21.28	326.143	25.13	25.30	Pass
157	5785	22.52	21.95	**335.324**	25.25	25.30	Pass
165	5825	21.96	22.07	318.101	25.03	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
38	5190	15.62	15.00	68.098	18.33	25.30	Pass
46	5230	21.92	22.18	**320.793**	25.06	25.30	Pass
151	5755	22.51	20.99	303.841	24.83	25.30	Pass
159	5795	22.14	20.75	282.532	24.51	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
42	5210	15.11	15.33	66.553	18.23	25.30	Pass
155	5775	20.84	19.62	212.961	23.28	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
36	5180	18.45	18.21	136.206	21.34	25.30	Pass
40	5200	22.19	21.64	311.458	24.93	25.30	Pass
48	5240	21.79	21.44	290.324	24.63	25.30	Pass
149	5745	22.83	21.28	326.143	25.13	25.30	Pass
157	5785	22.52	21.95	**335.324**	25.25	25.30	Pass
165	5825	21.96	22.07	318.101	25.03	25.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
38	5190	15.62	15.00	68.098	18.33	25.30	Pass
46	5230	21.92	22.18	**320.793**	25.06	25.30	Pass
151	5755	22.51	20.99	303.841	24.83	25.30	Pass
159	5795	22.14	20.75	282.532	24.51	25.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
42	5210	15.11	15.33	66.553	18.23	25.30	Pass
155	5775	20.84	19.62	212.961	23.28	25.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

Test Mode I

Power Output:

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				
36	5180	17.78	17.27	113.312	20.54	25.30	Pass
40	5200	20.40	19.82	205.588	23.13	25.30	Pass
48	5240	19.57	19.17	173.177	22.38	25.30	Pass
149	5745	22.90	21.41	**333.341**	25.23	25.30	Pass
157	5785	22.13	21.29	297.891	24.74	25.30	Pass
165	5825	21.83	21.11	281.527	24.50	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
36	5180	17.64	17.41	113.157	20.54	25.30	Pass
40	5200	19.94	19.43	186.328	22.70	25.30	Pass
48	5240	20.14	19.61	194.687	22.89	25.30	Pass
149	5745	22.83	21.28	326.143	25.13	25.30	Pass
157	5785	22.38	21.32	308.501	24.89	25.30	Pass
165	5825	21.78	21.65	296.879	24.73	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
38	5190	15.62	15.00	68.098	18.33	25.30	Pass
46	5230	20.97	20.80	**245.252**	23.90	25.30	Pass
151	5755	22.51	20.99	303.841	24.83	25.30	Pass
159	5795	22.14	20.75	282.532	24.51	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
42	5210	15.02	14.55	60.279	17.80	25.30	Pass
155	5775	20.22	19.21	188.564	22.75	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the power limit shall be reduced to 30-(10.7-6) = 25.30dBm.

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				
36	5180	14.63	14.40	56.624	17.53	22.29	Pass
40	5200	16.93	16.42	93.111	19.69	22.29	Pass
48	5240	17.13	16.60	97.275	19.88	22.29	Pass
149	5745	19.82	18.27	**162.930**	22.12	22.29	Pass
157	5785	19.37	18.31	154.170	21.88	22.29	Pass
165	5825	18.77	18.64	148.594	21.72	22.29	Pass

Note: Directional gain = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power limit shall be reduced to 30-(13.71-6) = 22.29dBm.

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				
38	5190	12.61	11.99	34.041	15.32	22.29	Pass
46	5230	17.96	17.79	**122.744**	20.89	22.29	Pass
151	5755	19.50	17.98	152.055	21.82	22.29	Pass
159	5795	19.13	17.74	141.254	21.50	22.29	Pass

Note: Directional gain = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power limit shall be reduced to 30-(13.71-6) = 22.29dBm.

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				
42	5210	12.01	11.54	30.130	14.79	22.29	Pass
155	5775	17.21	16.20	94.189	19.74	22.29	Pass

Note: Directional gain = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power limit shall be reduced to 30-(13.71-6) = 22.29dBm.

Test Mode K

Power Output:

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				
36	5180	20.25	19.11	187.395	22.73	29.40	Pass
40	5200	22.78	21.87	343.486	25.36	29.40	Pass
48	5240	23.02	22.25	368.327	25.66	29.40	Pass
149	5745	22.95	22.19	362.819	25.60	29.40	Pass
157	5785	22.63	22.01	342.086	25.34	29.40	Pass
165	5825	22.32	22.07	331.673	25.21	29.40	Pass

Note: Gain = 6.6dBi > 6dBi, so the power limit shall be reduced to 30-(6.6-6) = 29.40dBm.

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				
36	5180	20.28	19.27	191.188	22.81	29.40	Pass
40	5200	22.79	22.01	348.963	25.43	29.40	Pass
48	5240	23.08	22.34	**374.632**	25.74	29.40	Pass
149	5745	22.97	22.26	366.420	25.64	29.40	Pass
157	5785	22.75	22.23	355.474	25.51	29.40	Pass
165	5825	22.46	22.20	342.157	25.34	29.40	Pass

Note: Gain = 6.6dBi > 6dBi, so the power limit shall be reduced to 30-(6.6-6) = 29.40dBm.

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				
38	5190	16.88	15.93	87.927	19.44	29.40	Pass
46	5230	22.62	21.95	339.485	25.31	29.40	Pass
151	5755	23.24	22.34	**382.259**	25.82	29.40	Pass
159	5795	22.90	22.27	363.639	25.61	29.40	Pass

Note: Gain = 6.6dBi > 6dBi, so the power limit shall be reduced to 30-(6.6-6) = 29.40dBm.

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				
42	5210	17.15	16.16	93.185	19.69	29.40	Pass
155	5775	21.23	20.38	241.883	23.84	29.40	Pass

Note: Gain = 6.6dBi > 6dBi, so the power limit shall be reduced to 30-(6.6-6) = 29.40dBm.

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				
36	5180	17.27	16.26	95.499	19.80	26.39	Pass
40	5200	19.78	19.00	174.582	22.42	26.39	Pass
48	5240	20.07	19.33	**187.499**	22.73	26.39	Pass
149	5745	19.96	19.25	183.231	22.63	26.39	Pass
157	5785	19.74	19.22	177.828	22.50	26.39	Pass
165	5825	19.45	19.19	171.002	22.33	26.39	Pass

Note: Directional gain = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power limit shall be reduced to 30-(9.61-6) = 26.39dBm.

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				
38	5190	13.87	12.92	43.954	16.43	26.39	Pass
46	5230	19.61	18.94	169.824	22.30	26.39	Pass
151	5755	20.23	19.33	**190.985**	22.81	26.39	Pass
159	5795	19.89	19.26	181.970	22.60	26.39	Pass

Note: Directional gain = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power limit shall be reduced to 30-(9.61-6) = 26.39dBm.

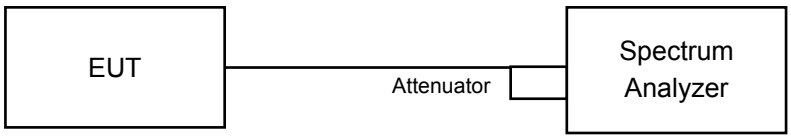
802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.14	13.15	46.559	16.68	26.39	Pass
155	5775	18.22	17.37	121.060	20.83	26.39	Pass

Note: Directional gain = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power limit shall be reduced to 30-(9.61-6) = 26.39dBm.

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 Result

Test Mode B

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.68	16.56
48	5240	16.68	16.68
149	5745	16.80	16.68
157	5785	16.92	16.68
165	5825	16.92	16.68

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.76	17.76
48	5240	17.76	17.64
149	5745	17.88	17.76
157	5785	18.00	17.76
165	5825	18.00	17.76

802.11n (HT40)

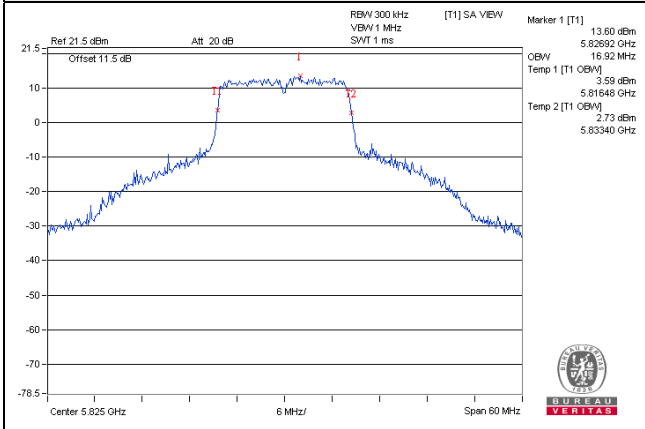
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.24
46	5230	36.24	36.36
151	5755	36.60	36.36
159	5795	36.60	36.48

802.11ac (VHT80)

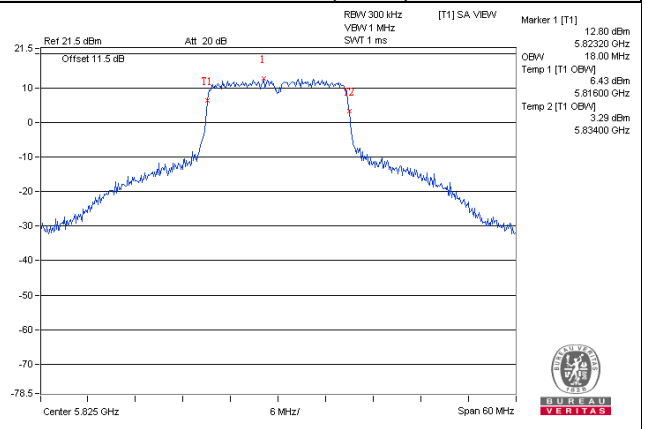
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.60	75.84
155	5775	76.00	75.84

Spectrum Plot of Worst Value

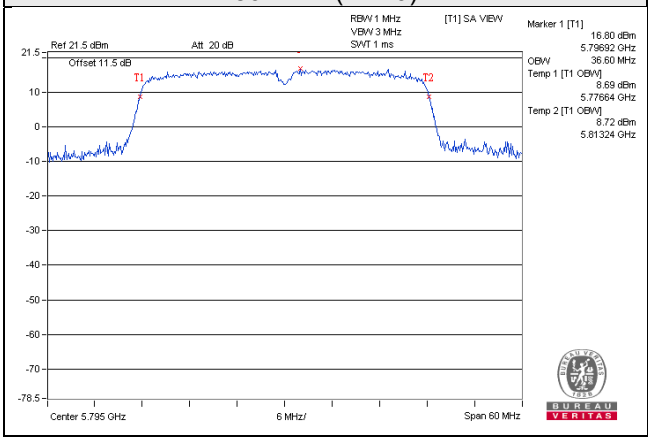
802.11a



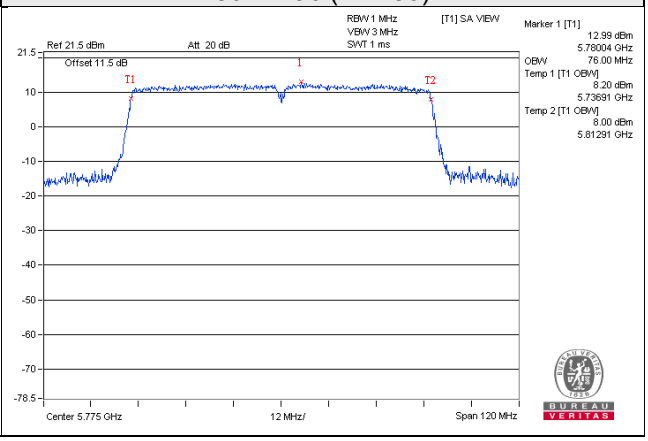
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode D

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.56
40	5200	16.80	16.80
48	5240	16.80	16.80
149	5745	20.16	21.72
157	5785	22.08	24.48
165	5825	22.20	27.96

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.76	17.76
40	5200	18.00	18.00
48	5240	17.88	18.00
149	5745	19.80	23.04
157	5785	21.12	25.44
165	5825	21.60	27.72

802.11n (HT40)

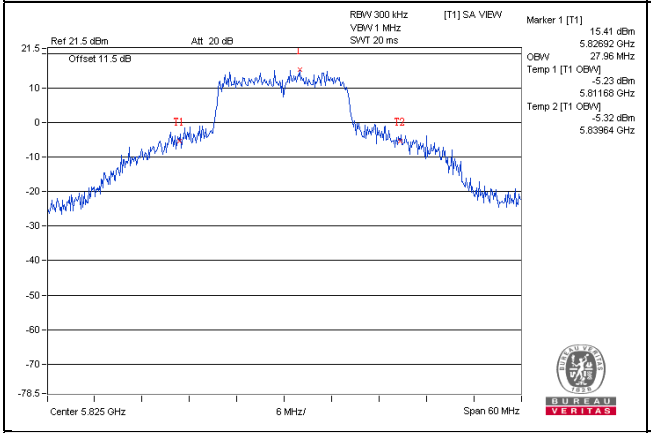
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.24
46	5230	37.44	37.44
151	5755	40.80	43.68
159	5795	41.64	46.20

802.11ac (VHT80)

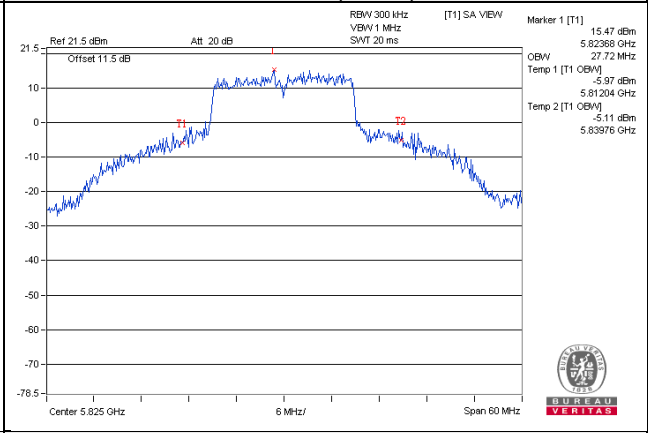
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	76.08	76.08

Spectrum Plot of Worst Value

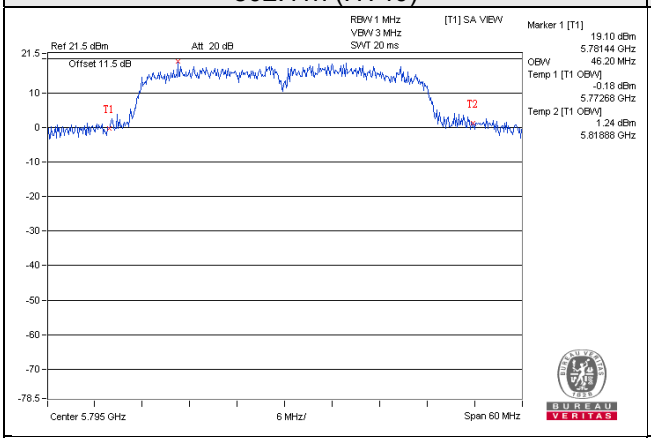
802.11a



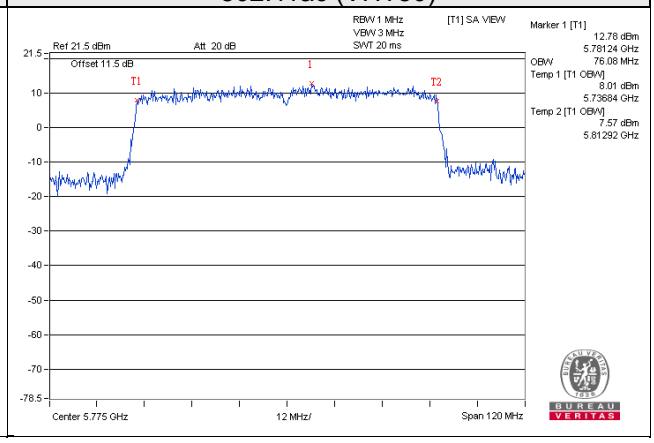
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode E

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.56
40	5200	17.16	17.16
48	5240	17.16	17.40
149	5745	20.16	21.72
157	5785	22.08	24.48
165	5825	22.20	27.96

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.76	17.76
40	5200	18.24	18.12
48	5240	18.24	18.48
149	5745	19.80	23.04
157	5785	21.12	25.44
165	5825	21.60	27.72

802.11n (HT40)

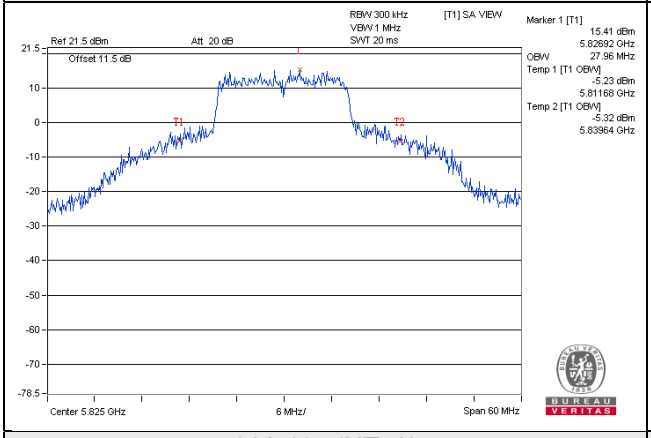
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.24
46	5230	37.44	37.44
151	5755	40.80	43.68
159	5795	41.64	46.20

802.11ac (VHT80)

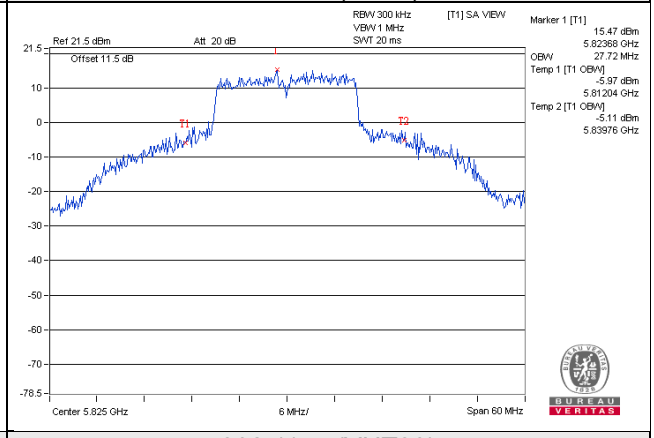
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	76.08	76.08

Spectrum Plot of Worst Value

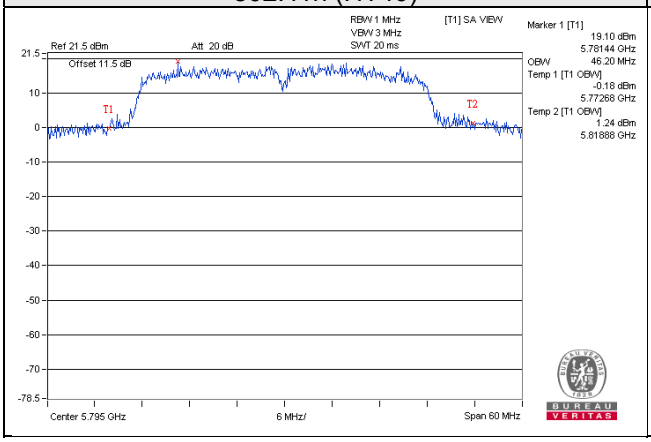
802.11a



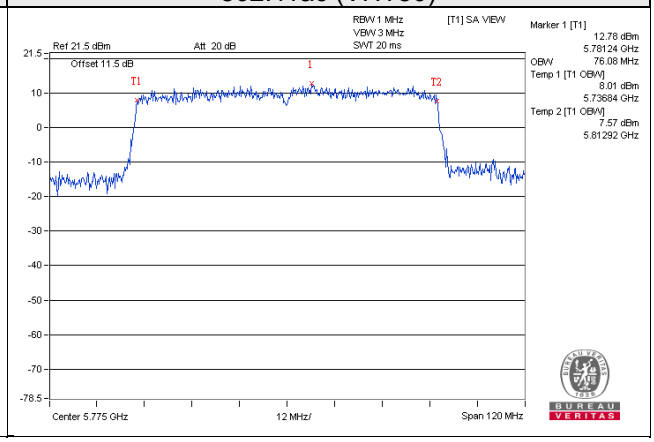
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode G

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.44
40	5200	16.56	16.44
48	5240	16.56	16.56
149	5745	19.68	21.24
157	5785	20.28	23.52
165	5825	21.96	26.16

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.76	17.76
48	5240	17.76	17.76
149	5745	19.92	21.24
157	5785	20.76	24.24
165	5825	22.56	27.12

802.11n (HT40)

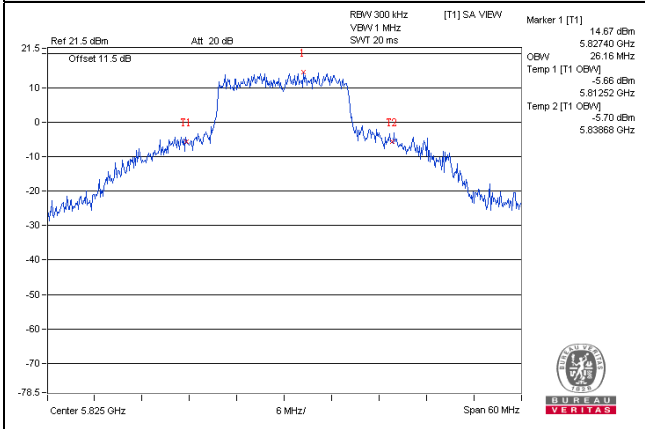
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.12
46	5230	36.84	36.84
151	5755	37.20	38.04
159	5795	37.80	40.56

802.11ac (VHT80)

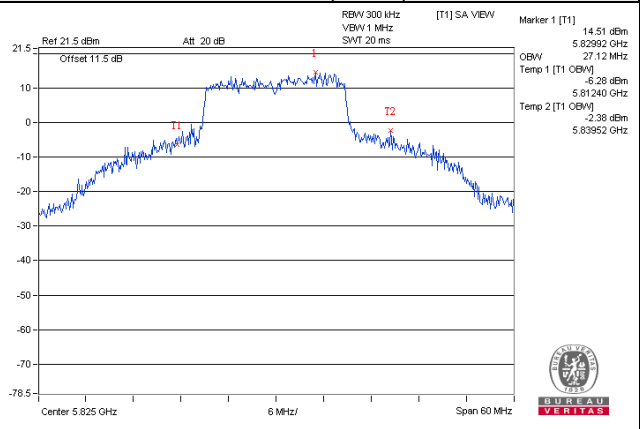
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	75.84	76.08

Spectrum Plot of Worst Value

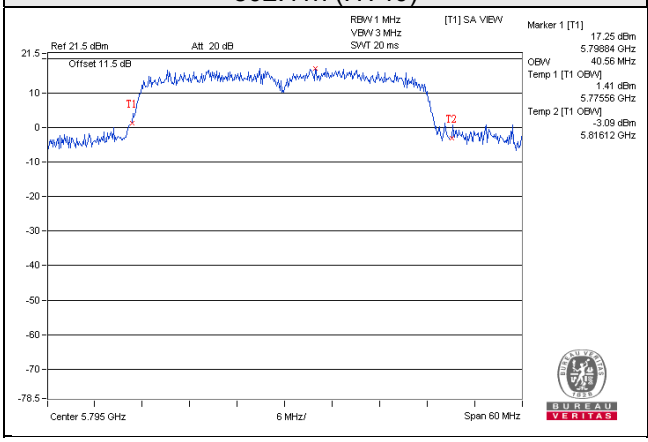
802.11a



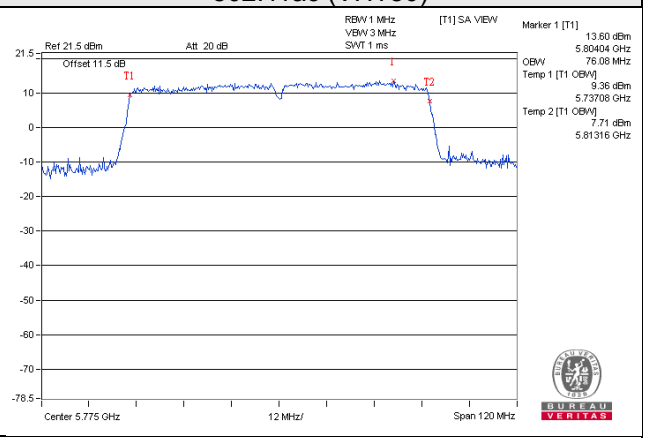
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode I

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.56
40	5200	16.56	16.56
48	5240	16.56	16.56
149	5745	20.04	22.92
157	5785	21.36	24.60
165	5825	22.20	26.88

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.76	17.76
40	5200	17.76	17.76
48	5240	17.76	17.76
149	5745	19.32	22.44
157	5785	21.12	25.80
165	5825	22.80	27.00

802.11n (HT40)

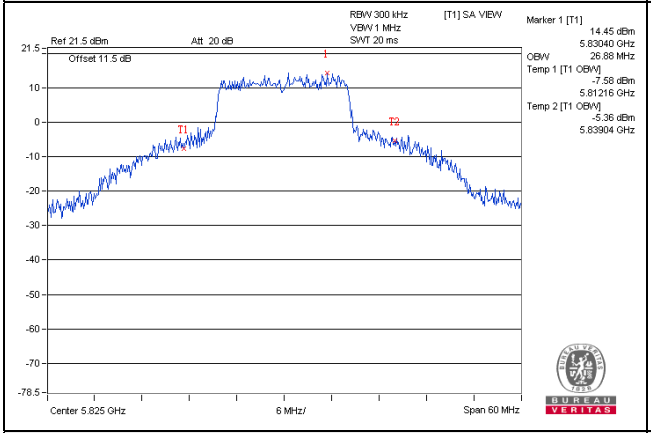
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.24
46	5230	36.36	36.48
151	5755	37.32	39.24
159	5795	37.80	41.52

802.11ac (VHT80)

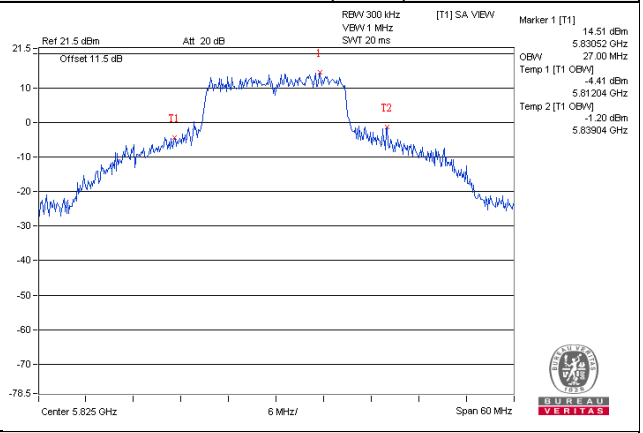
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	76.08
155	5775	75.84	76.08

Spectrum Plot of Worst Value

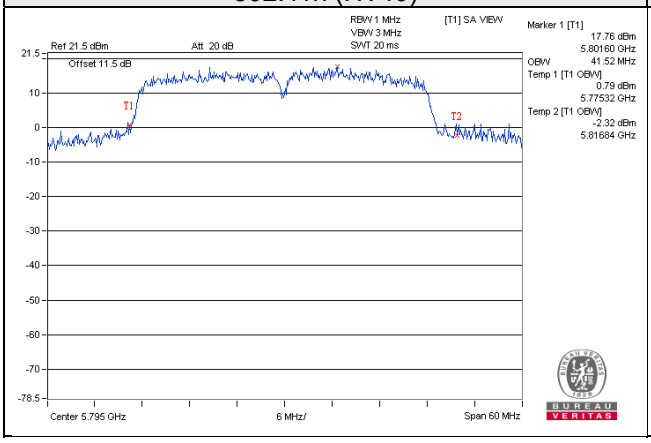
802.11a



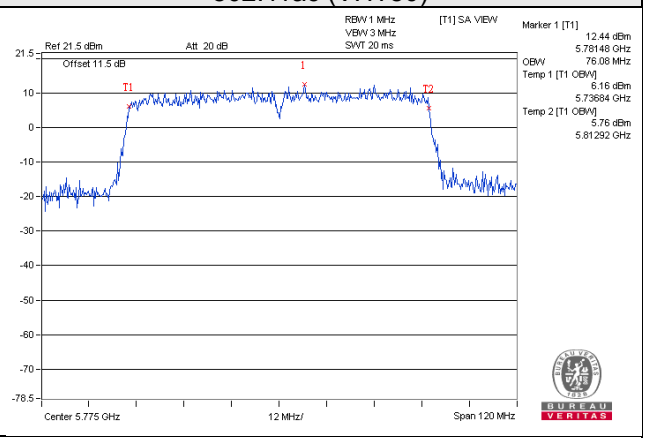
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode K

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.56
40	5200	17.28	17.28
48	5240	17.16	17.28
149	5745	20.40	21.84
157	5785	21.36	23.88
165	5825	22.20	26.16

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.76	17.76
40	5200	18.24	18.12
48	5240	18.24	18.36
149	5745	20.40	22.56
157	5785	21.12	25.20
165	5825	21.60	26.88

802.11n (HT40)

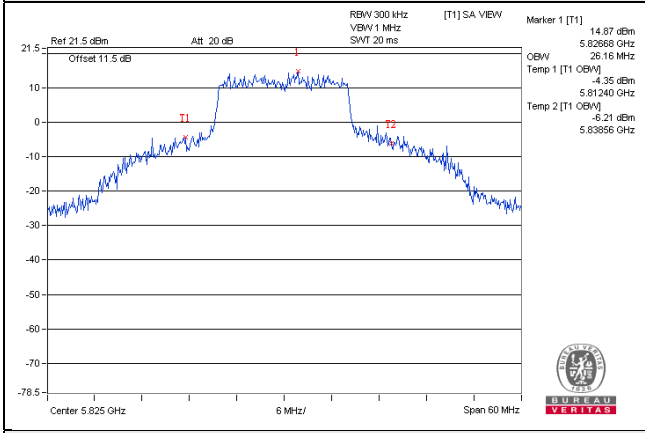
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.36	36.36
46	5230	36.72	36.72
151	5755	39.72	42.72
159	5795	40.56	45.48

802.11ac (VHT80)

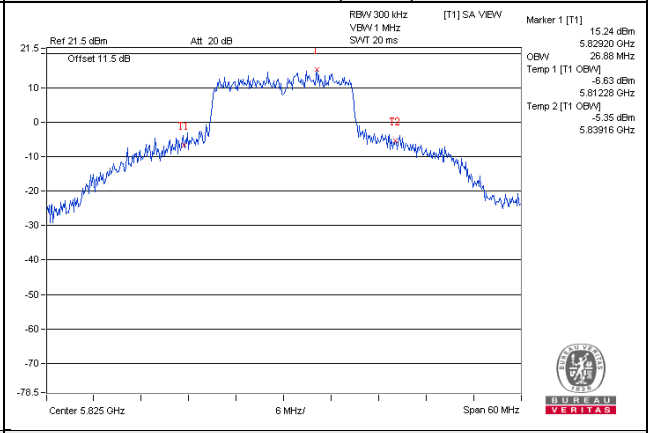
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	76.08
155	5775	76.08	76.08

Spectrum Plot of Worst Value

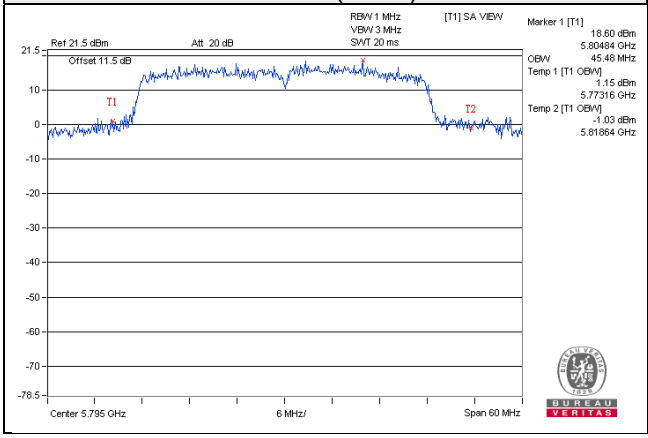
802.11a



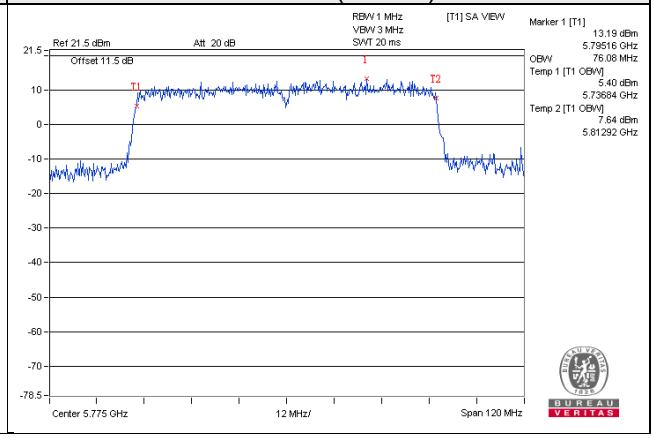
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

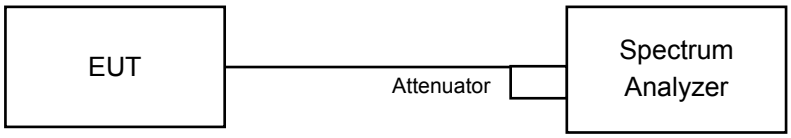


4.5 Peak Power Spectral Density Measurement

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

For U-NII-1 band:

Duty cycle of test signal is > 98%

Using method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.

b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS

c. Sweep time = auto, trigger set to “free run”.

d. Trace average at least 100 traces in power averaging mode.

e. Record the max value

Duty cycle of test signal is < 98%

Using method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.

b. Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS

c. Set Channel power measure = 1MHz

d. Sweep time = auto, trigger set to “free run”.

e. Trace average at least 100 traces in power averaging mode.

f. Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Duty cycle of test signal is > 98%

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.

b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS

c. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.

d. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300kHz)

e. Sweep time = auto, trigger set to “free run”.

f. Trace average at least 100 traces in power averaging mode.

g. Record the max value

Duty cycle of test signal is < 98%

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.

b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS

c. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.

d. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz / 300 kHz)

e. Sweep time = auto, trigger set to “free run”.

f. Trace average at least 100 traces in power averaging mode.

g. 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 4.3.6.

4.5.7 Test Results

Test Mode B

For U-NII-1 band:

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				
36	5180	3.63	5.29	0.19	7.74	14.99	Pass
40	5200	7.43	8.83	0.19	11.38	14.99	Pass
48	5240	8.00	9.12	0.19	11.79	14.99	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 = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 17-(8.01-6) = 14.99dBm.
3. 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)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	2.60	5.27	0.09	7.24	14.99	Pass
40	5200	6.00	8.85	0.09	10.76	14.99	Pass
48	5240	6.27	8.98	0.09	10.94	14.99	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 = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 17-(8.01-6) = 14.99dBm.
3. 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)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-2.73	-0.41	0.19	1.78	14.99	Pass
46	5230	3.40	5.86	0.19	8.00	14.99	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 = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 17-(8.01-6) = 14.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

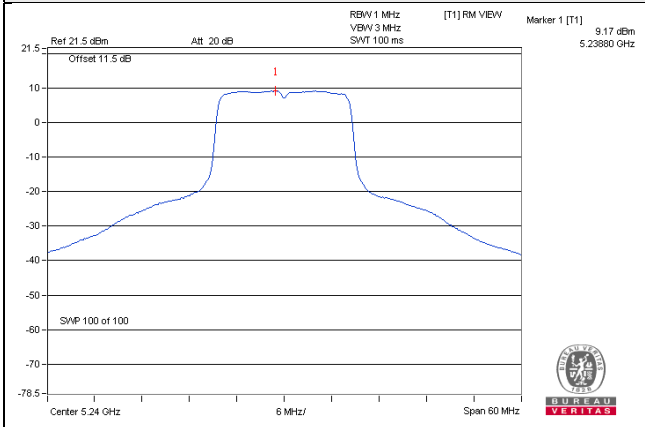
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-6.82	-5.03	0.35	-2.47	14.99	Pass

Note:

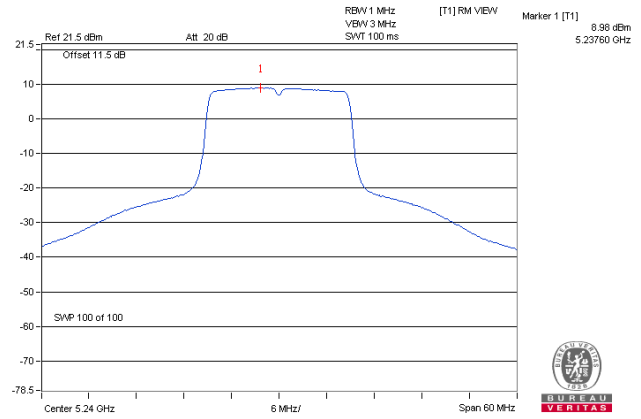
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 17-(8.01-6) = 14.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

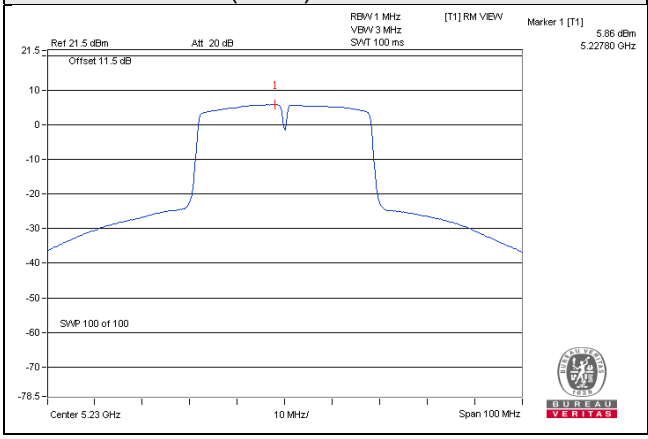
802.11a / Chain 1 / CH 48



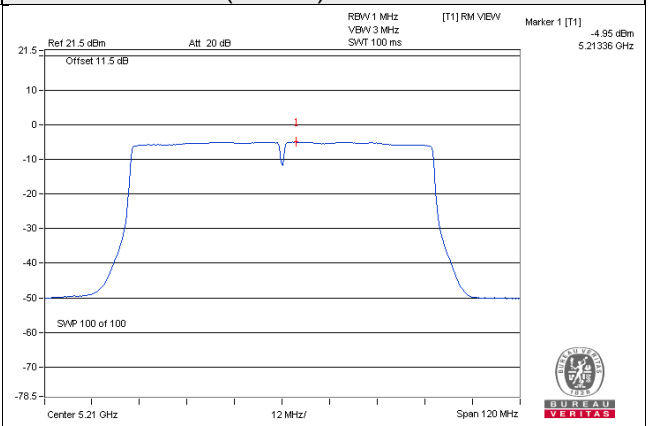
802.11n (HT20) / Chain 1 / CH 48



802.11n (HT40) / Chain 0 / CH 46



802.11ac (VHT80) / Chain 1 / CH 42



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	0.91	3.13	3.01	0.19	6.33	27.99	Pass
	157	5785	0.79	3.01	3.01	0.19	6.21	27.99	Pass
	165	5825	0.85	3.07	3.01	0.19	6.27	27.99	Pass
1	149	5745	0.92	3.14	3.01	0.19	6.34	27.99	Pass
	157	5785	0.89	3.11	3.01	0.19	6.31	27.99	Pass
	165	5825	0.92	3.14	3.01	0.19	6.34	27.99	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 = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	0.50	2.72	3.01	0.09	5.82	27.99	Pass
	157	5785	0.44	2.66	3.01	0.09	5.76	27.99	Pass
	165	5825	0.36	2.58	3.01	0.09	5.68	27.99	Pass
1	149	5745	0.39	2.61	3.01	0.09	5.71	27.99	Pass
	157	5785	0.74	2.96	3.01	0.09	6.06	27.99	Pass
	165	5825	0.80	3.02	3.01	0.09	6.12	27.99	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 = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-2.13	0.09	3.01	0.19	3.29	27.99	Pass
	159	5795	-2.14	0.08	3.01	0.19	3.28	27.99	Pass
1	151	5755	-2.21	0.01	3.01	0.19	3.21	27.99	Pass
	159	5795	-2.43	-0.21	3.01	0.19	2.99	27.99	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 = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

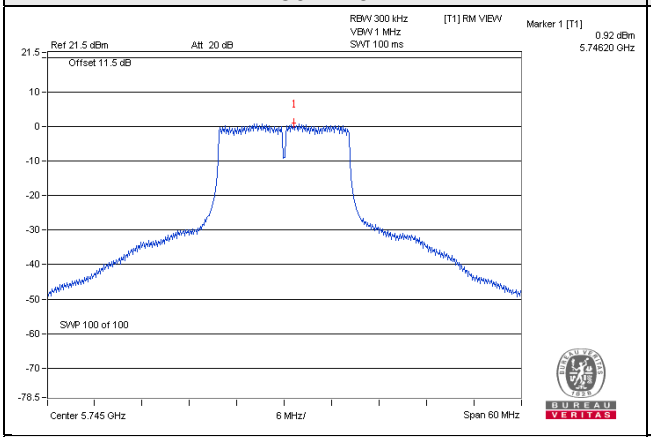
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-6.57	-4.35	3.01	0.35	-0.99	27.99	Pass
1	155	5775	-6.61	-4.39	3.01	0.35	-1.03	27.99	Pass

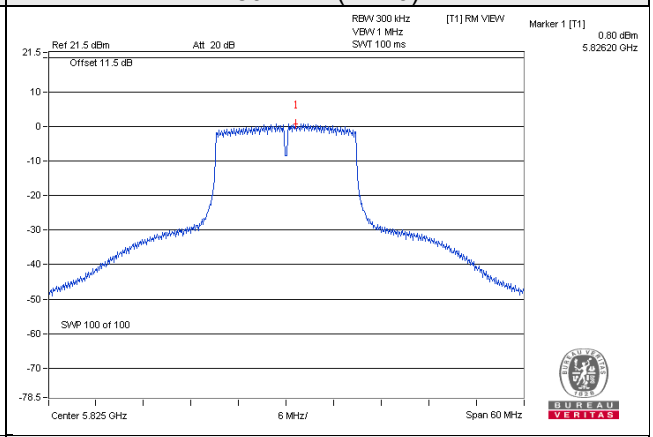
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

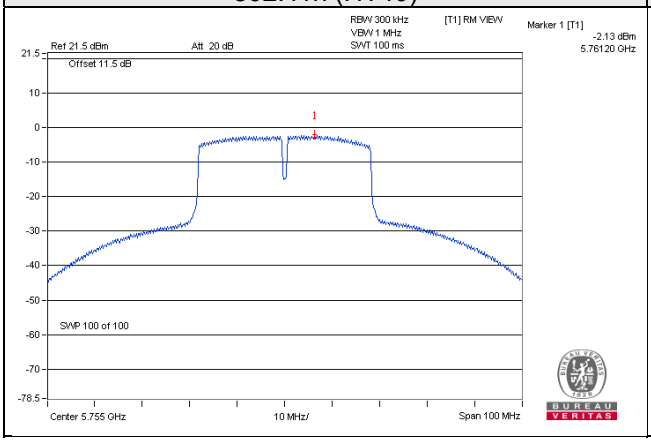
802.11a



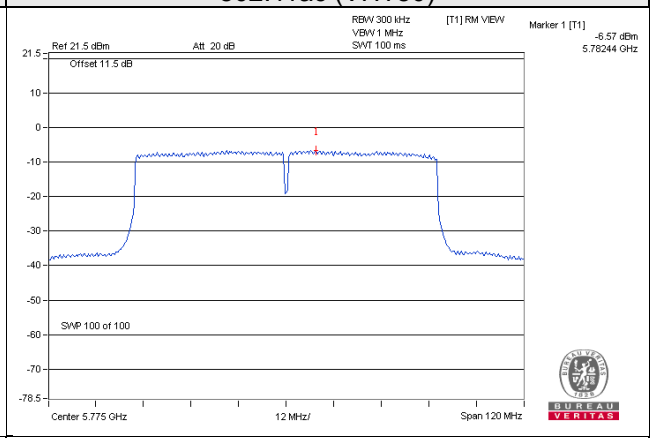
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode D

For U-NII-1 band:

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				
36	5180	7.54	6.97	0.17	10.44	12.69	Pass
40	5200	9.11	8.80	0.17	12.14	12.69	Pass
48	5240	9.45	9.16	0.17	12.49	12.69	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 = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 17-(10.31-6) = 12.69dBm.
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			
36	5180	7.01	6.91	9.97	12.69	Pass
40	5200	9.04	8.68	11.87	12.69	Pass
48	5240	9.21	9.00	12.12	12.69	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 = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 17-(10.31-6) = 12.69dBm.

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				
38	5190	2.46	2.31	0.18	5.57	12.69	Pass
46	5230	7.91	7.75	0.18	11.02	12.69	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 = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 17-(10.31-6) = 12.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

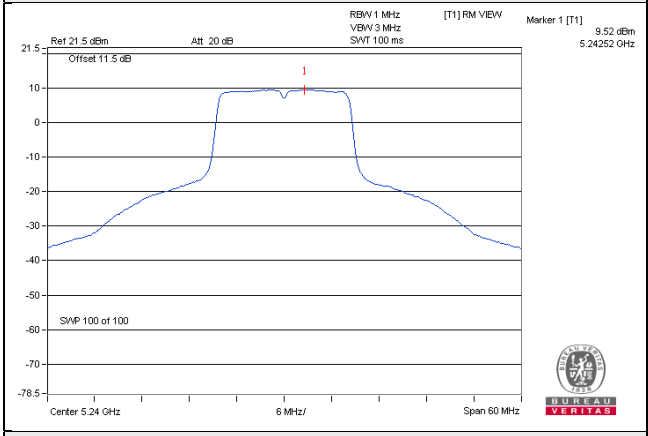
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-1.04	-1.29	0.32	2.17	12.69	Pass

Note:

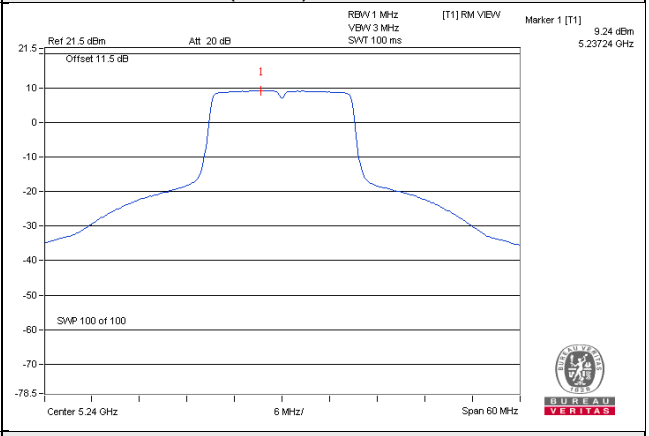
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 17-(10.31-6) = 12.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

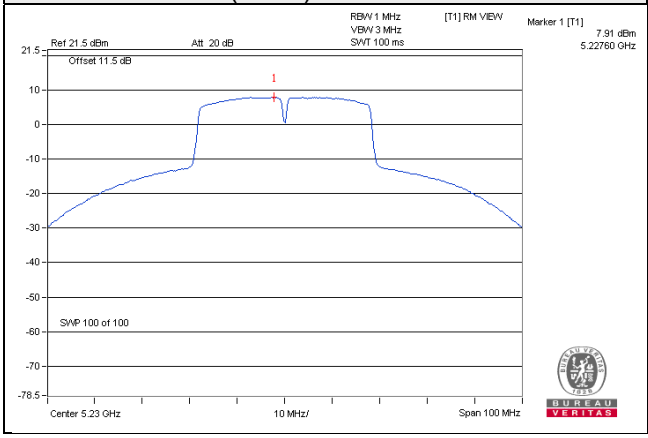
802.11a / Chain 0 / CH 48



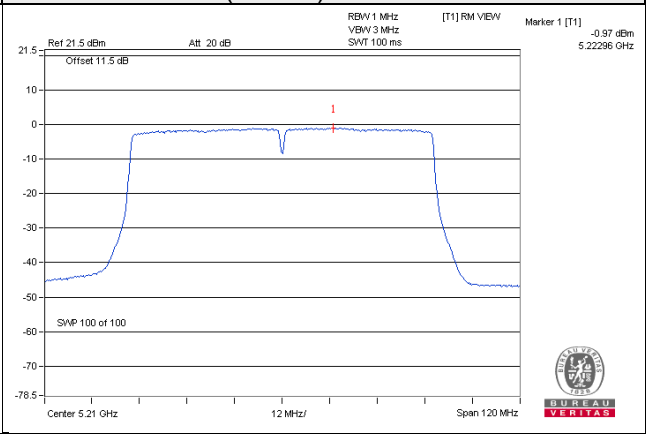
802.11n (HT20) / Chain 0 / CH 48



802.11n (HT40) / Chain 0 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.77	3.99	3.01	0.17	7.17	25.69	Pass
	157	5785	1.68	3.90	3.01	0.17	7.08	25.69	Pass
	165	5825	1.35	3.57	3.01	0.17	6.75	25.69	Pass
1	149	5745	1.83	4.05	3.01	0.17	7.23	25.69	Pass
	157	5785	2.19	4.41	3.01	0.17	7.59	25.69	Pass
	165	5825	2.59	4.81	3.01	0.17	7.99	25.69	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 = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 30-(10.31-6) = 25.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	1.62	3.84	3.01	6.85	25.69	Pass
	157	5785	1.56	3.78	3.01	6.79	25.69	Pass
	165	5825	1.27	3.49	3.01	6.50	25.69	Pass
1	149	5745	1.70	3.92	3.01	6.93	25.69	Pass
	157	5785	2.11	4.33	3.01	7.34	25.69	Pass
	165	5825	2.31	4.53	3.01	7.54	25.69	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 = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 30-(10.31-6) = 25.69dBm.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-0.79	1.43	3.01	0.18	4.62	25.69	Pass
	159	5795	-0.89	1.33	3.01	0.18	4.52	25.69	Pass
1	151	5755	-0.38	1.84	3.01	0.18	5.03	25.69	Pass
	159	5795	-0.25	1.97	3.01	0.18	5.16	25.69	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 = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 30-(10.31-6) = 25.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

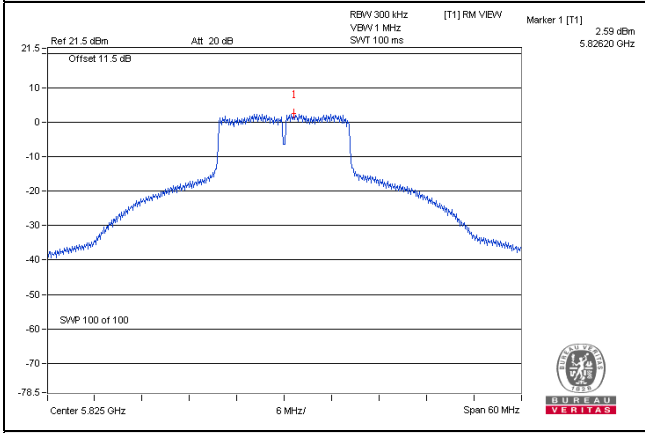
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-6.78	-4.56	3.01	0.32	-1.23	25.69	Pass
1	155	5775	-5.99	-3.77	3.01	0.32	-0.44	25.69	Pass

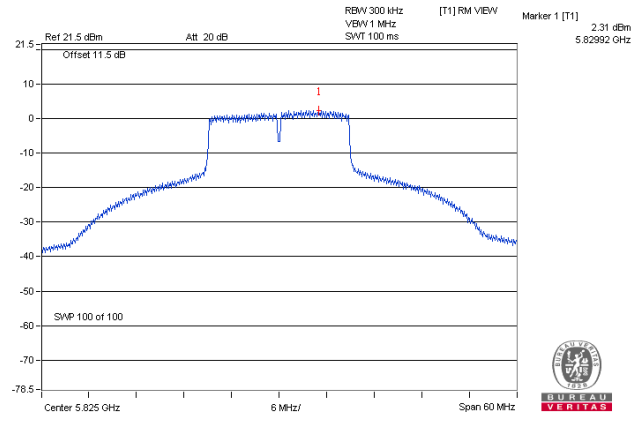
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.3dBi + 10log(2) = 10.31dBi > 6dBi, so the power density limit shall be reduced to 30-(10.31-6) = 25.69dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

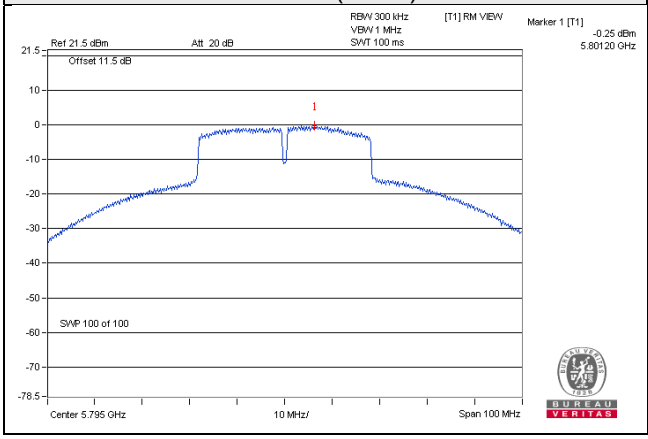
802.11a



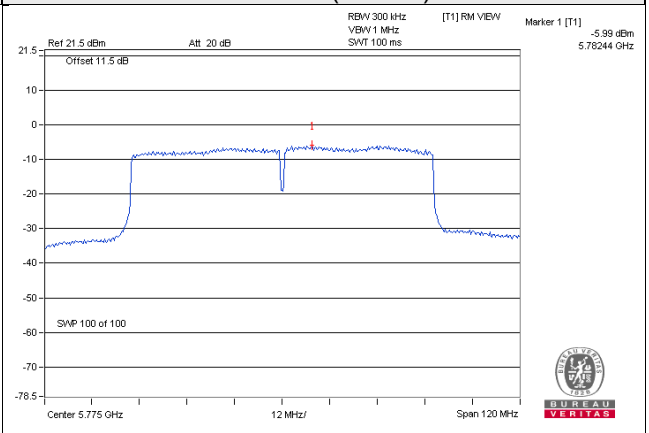
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode E

For U-NII-1 band:

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				
36	5180	7.54	6.97	0.17	10.44	13.99	Pass
40	5200	10.08	9.28	0.17	12.88	13.99	Pass
48	5240	9.88	9.47	0.17	12.86	13.99	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 = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
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			
36	5180	7.01	6.91	9.97	13.99	Pass
40	5200	9.44	9.09	12.28	13.99	Pass
48	5240	9.73	9.29	12.53	13.99	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 = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.

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				
38	5190	2.46	2.31	0.18	5.57	13.99	Pass
46	5230	7.91	7.75	0.18	11.02	13.99	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 = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

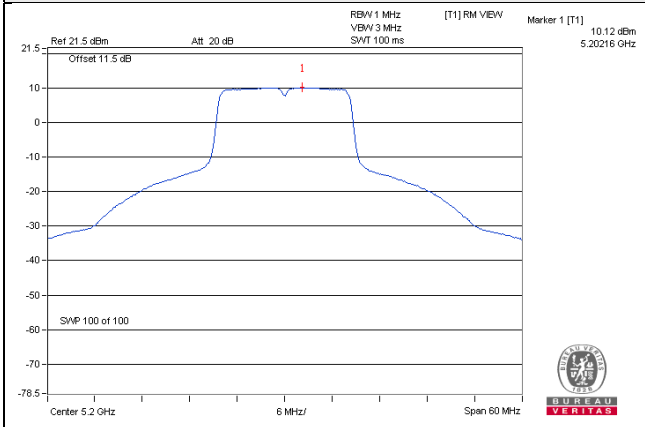
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-1.04	-1.29	0.32	2.17	13.99	Pass

Note:

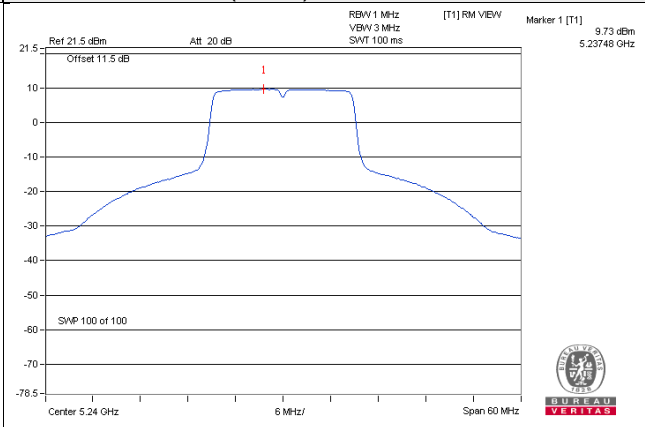
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

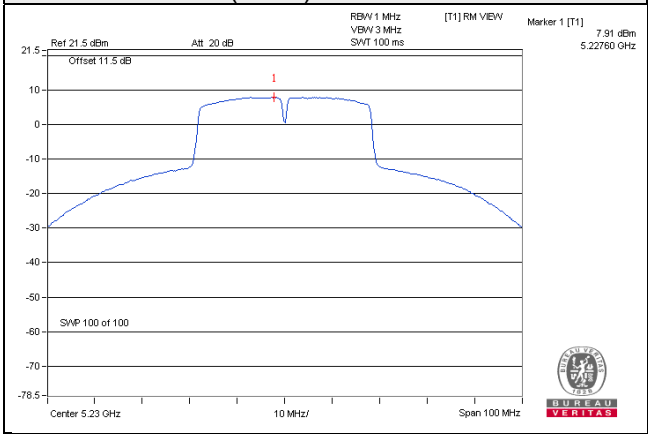
802.11a / Chain 0 / CH 40



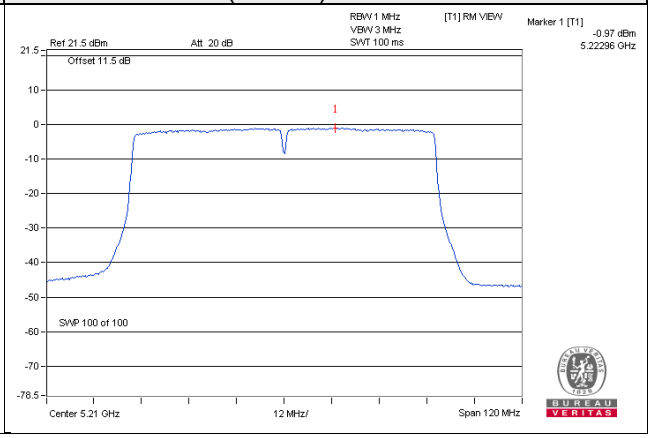
802.11n (HT20) / Chain 0 / CH 48



802.11n (HT40) / Chain 0 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.77	3.99	3.01	0.17	7.17	26.99	Pass
	157	5785	1.68	3.90	3.01	0.17	7.08	26.99	Pass
	165	5825	1.35	3.57	3.01	0.17	6.75	26.99	Pass
1	149	5745	1.83	4.05	3.01	0.17	7.23	26.99	Pass
	157	5785	2.19	4.41	3.01	0.17	7.59	26.99	Pass
	165	5825	2.59	4.81	3.01	0.17	7.99	26.99	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 = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	1.62	3.84	3.01	6.85	26.99	Pass
	157	5785	1.56	3.78	3.01	6.79	26.99	Pass
	165	5825	1.27	3.49	3.01	6.50	26.99	Pass
1	149	5745	1.70	3.92	3.01	6.93	26.99	Pass
	157	5785	2.11	4.33	3.01	7.34	26.99	Pass
	165	5825	2.31	4.53	3.01	7.54	26.99	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 = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-0.79	1.43	3.01	0.18	4.62	26.99	Pass
	159	5795	-0.89	1.33	3.01	0.18	4.52	26.99	Pass
1	151	5755	-0.38	1.84	3.01	0.18	5.03	26.99	Pass
	159	5795	-0.25	1.97	3.01	0.18	5.16	26.99	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 = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

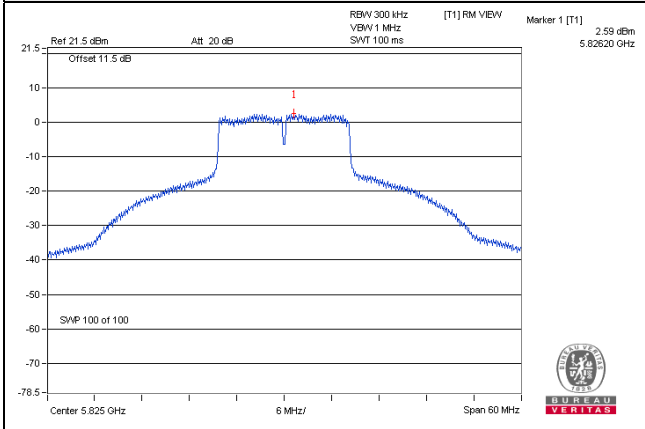
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-6.78	-4.56	3.01	0.32	-1.23	26.99	Pass
1	155	5775	-5.99	-3.77	3.01	0.32	-0.44	26.99	Pass

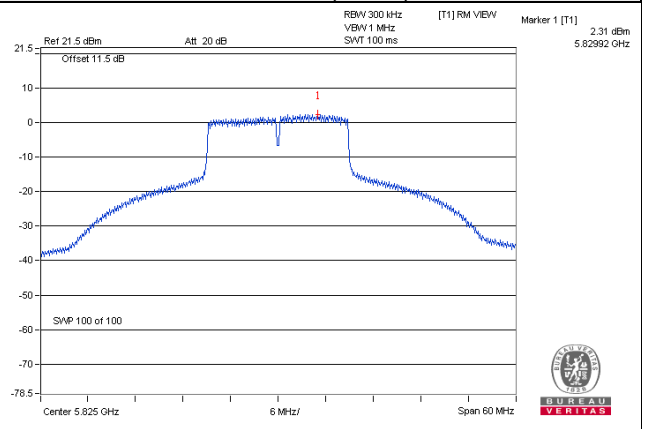
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

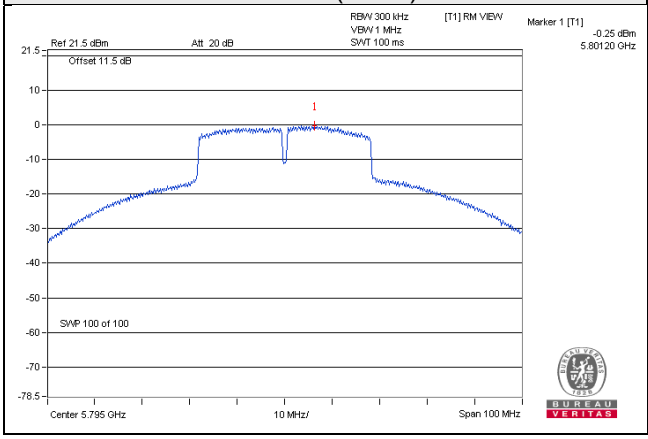
802.11a



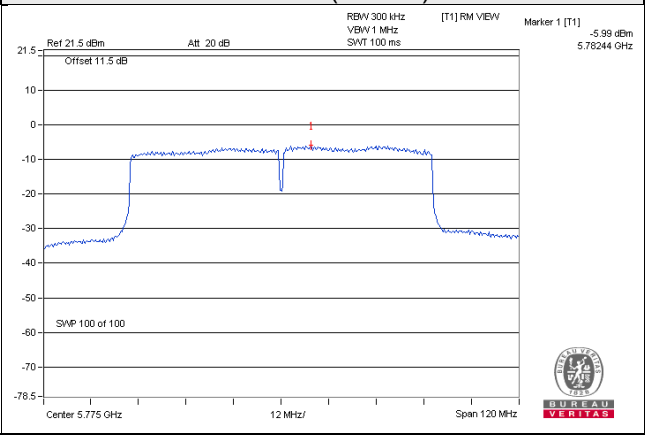
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode G

For U-NII-1 band:

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				
36	5180	7.40	7.01	0.18	10.40	12.30	Pass
40	5200	8.97	7.93	0.18	11.67	12.30	Pass
48	5240	8.96	8.09	0.18	11.74	12.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 17-(10.7-6) = 12.30dBm.
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			
36	5180	6.27	6.08	9.19	12.30	Pass
40	5200	9.00	8.81	11.92	12.30	Pass
48	5240	8.69	8.52	11.62	12.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 17-(10.7-6) = 12.30dBm.

802.11n (HT40)

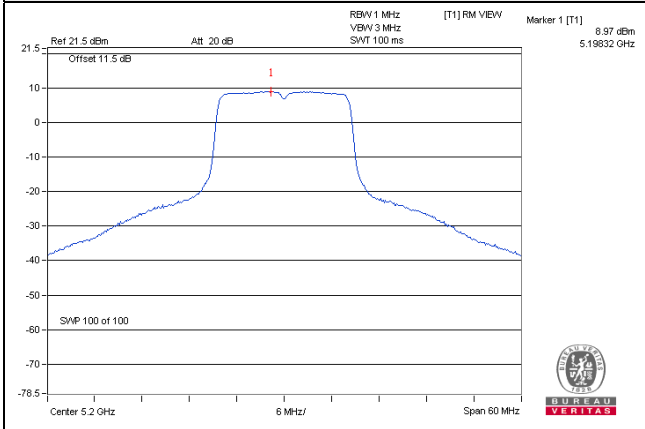
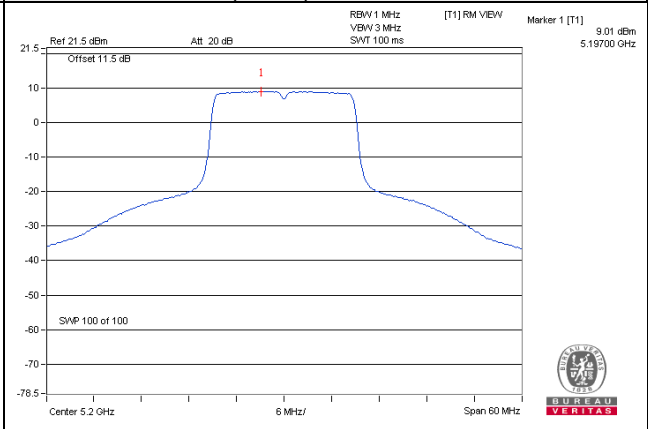
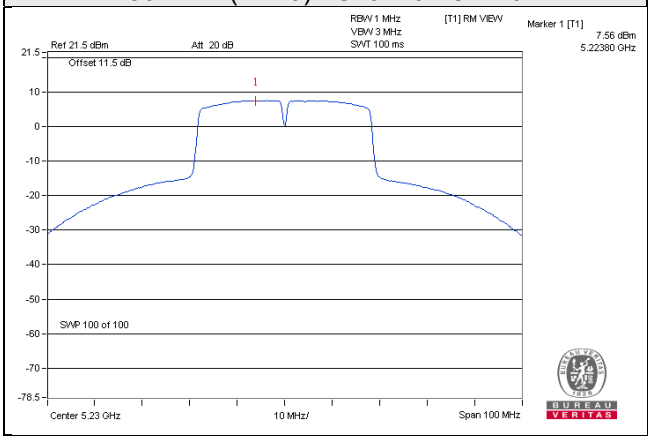
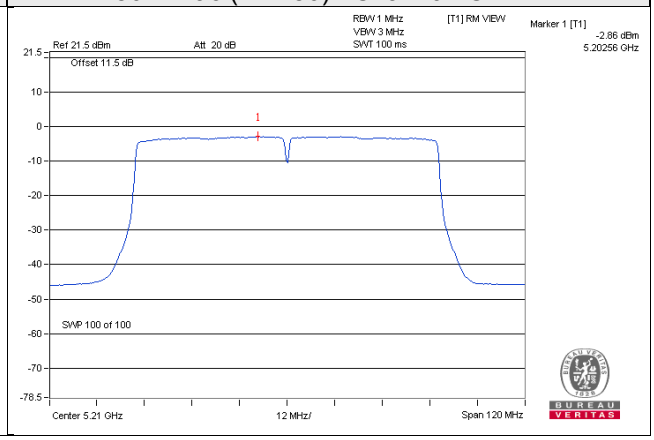
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	0.78	0.56	0.17	3.85	12.30	Pass
46	5230	7.53	7.30	0.17	10.60	12.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 17-(10.7-6) = 12.30dBm.
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				
42	5210	-2.90	-3.26	0.33	0.26	12.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 17-(10.7-6) = 12.30dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 40	802.11n (HT20) / Chain 0 / CH 40
	
802.11n (HT40) / Chain 0 / CH 46	802.11ac (VHT80) / Chain 0 / CH 42
	

For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.71	3.93	3.01	0.18	7.12	25.30	Pass
	157	5785	1.29	3.51	3.01	0.18	6.70	25.30	Pass
	165	5825	1.26	3.48	3.01	0.18	6.67	25.30	Pass
1	149	5745	1.57	3.79	3.01	0.18	6.98	25.30	Pass
	157	5785	1.87	4.09	3.01	0.18	7.28	25.30	Pass
	165	5825	2.20	4.42	3.01	0.18	7.61	25.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 30-(10.7-6) = 25.30dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	1.46	3.68	3.01	6.69	25.30	Pass
	157	5785	1.32	3.54	3.01	6.55	25.30	Pass
	165	5825	1.06	3.28	3.01	6.29	25.30	Pass
1	149	5745	1.26	3.48	3.01	6.49	25.30	Pass
	157	5785	1.62	3.84	3.01	6.85	25.30	Pass
	165	5825	1.94	4.16	3.01	7.17	25.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-1.72	0.50	3.01	0.17	3.68	25.30	Pass
	159	5795	-1.76	0.46	3.01	0.17	3.64	25.30	Pass
1	151	5755	-1.43	0.79	3.01	0.17	3.97	25.30	Pass
	159	5795	-1.15	1.07	3.01	0.17	4.25	25.30	Pass

Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 30-(10.7-6) = 25.30dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

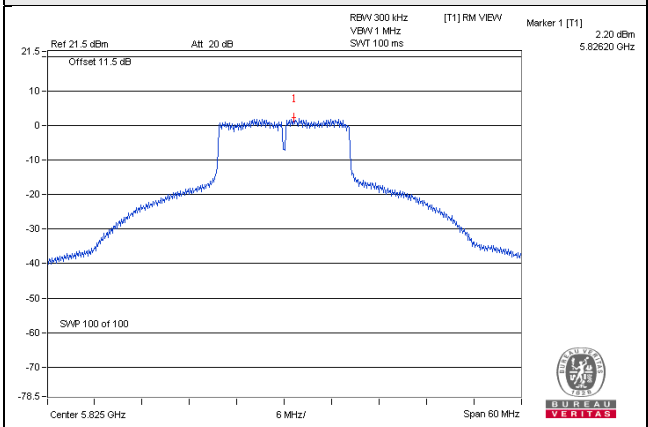
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-6.70	-4.48	3.01	0.33	-1.14	25.30	Pass
1	155	5775	-5.82	-3.60	3.01	0.33	-0.26	25.30	Pass

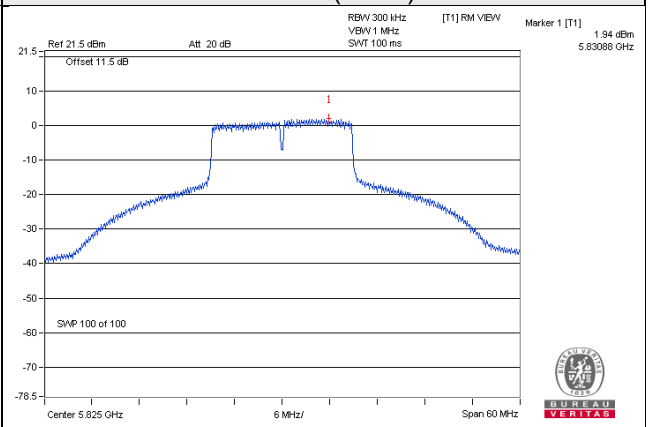
Note:
1. This antenna was cross-polarized antenn.
2. Gain = 10.7dBi > 6dBi, so the power density limit shall be reduced to 30-(10.7-6) = 25.30dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

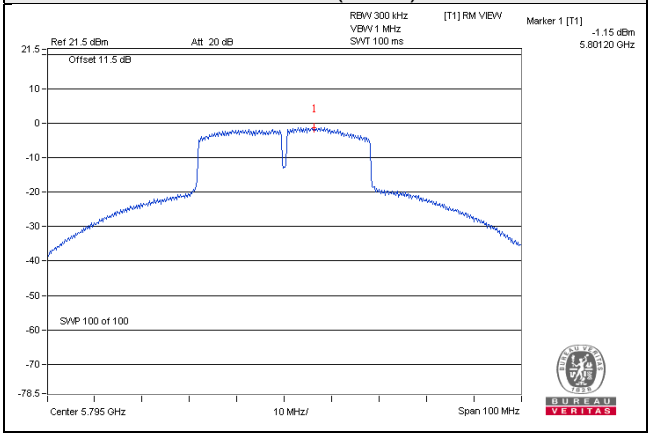
802.11a



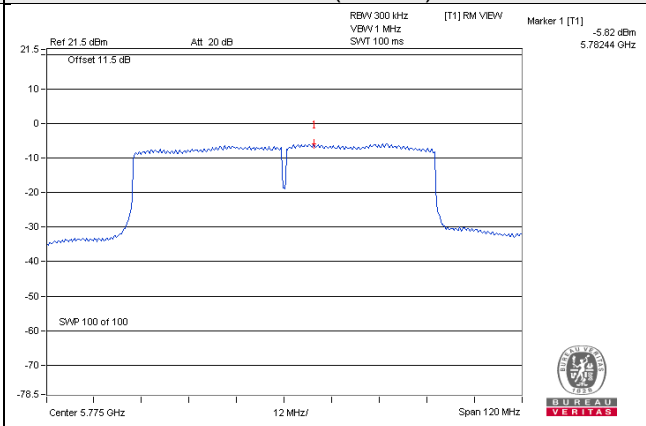
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode I

For U-NII-1 band:

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				
36	5180	5.06	4.57	0.21	8.05	9.29	Pass
40	5200	5.98	5.53	0.21	8.98	9.29	Pass
48	5240	6.08	5.68	0.21	9.11	9.29	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 = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 17-(13.71-6) = 9.29dBm.
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			
36	5180	4.77	4.40	7.60	9.29	Pass
40	5200	5.89	5.48	8.70	9.29	Pass
48	5240	6.20	5.87	9.05	9.29	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 = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 17-(13.71-6) = 9.29dBm.

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				
38	5190	-0.05	-0.57	0.15	2.86	9.29	Pass
46	5230	6.09	5.70	0.15	9.06	9.29	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 = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 17-(13.71-6) = 9.29dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

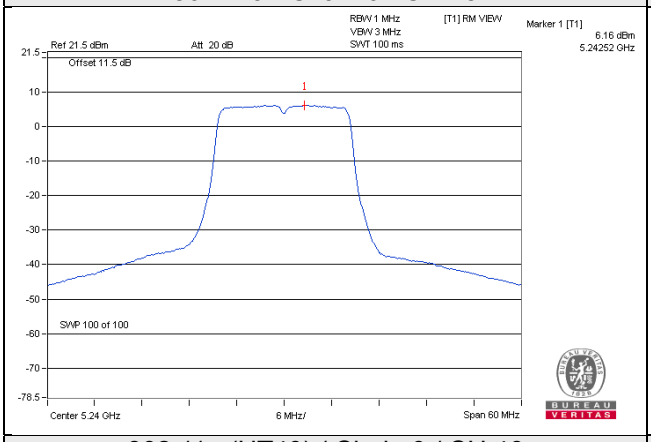
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-4.12	-4.31	0.33	-0.87	9.29	Pass

Note:

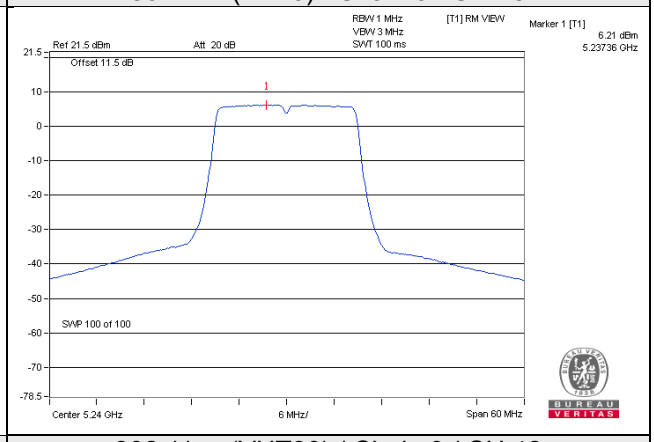
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 17-(13.71-6) = 9.29dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

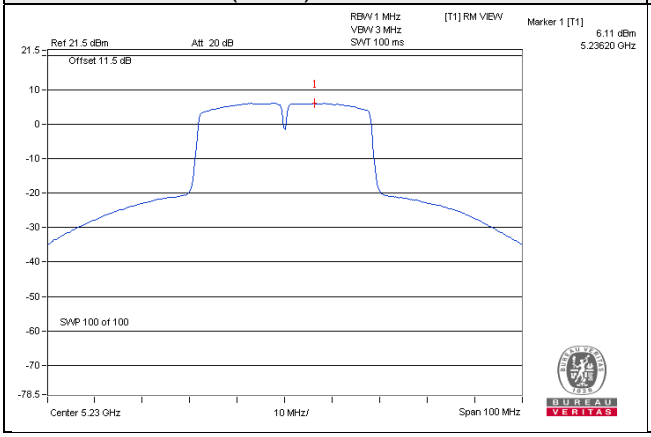
802.11a / Chain 0 / CH 48



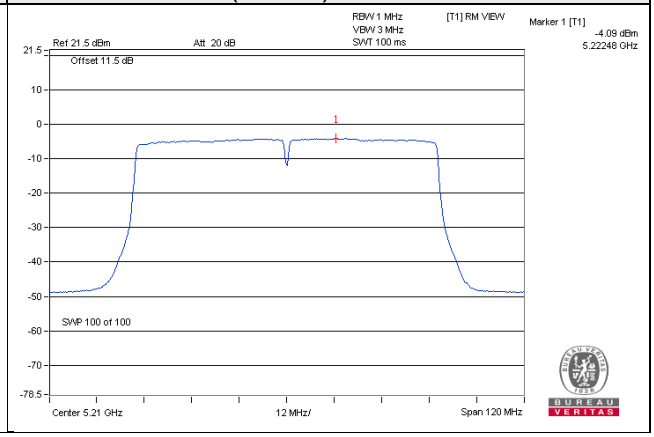
802.11n (HT20) / Chain 0 / CH 48



802.11n (HT40) / Chain 0 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.51	3.73	3.01	0.21	6.95	22.29	Pass
	157	5785	1.26	3.48	3.01	0.21	6.70	22.29	Pass
	165	5825	1.12	3.34	3.01	0.21	6.56	22.29	Pass
1	149	5745	1.42	3.64	3.01	0.21	6.86	22.29	Pass
	157	5785	1.91	4.13	3.01	0.21	7.35	22.29	Pass
	165	5825	2.02	4.24	3.01	0.21	7.46	22.29	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 = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 30-(13.71-6) = 22.29dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	1.26	3.48	3.01	6.49	22.29	Pass
	157	5785	1.13	3.35	3.01	6.36	22.29	Pass
	165	5825	0.94	3.16	3.01	6.17	22.29	Pass
1	149	5745	1.19	3.41	3.01	6.42	22.29	Pass
	157	5785	1.57	3.79	3.01	6.80	22.29	Pass
	165	5825	1.94	4.16	3.01	7.17	22.29	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 = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 30-(13.71-6) = 22.29dBm.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-1.71	0.51	3.01	0.15	3.67	22.29	Pass
	159	5795	-1.96	0.26	3.01	0.15	3.42	22.29	Pass
1	151	5755	-1.43	0.79	3.01	0.15	3.95	22.29	Pass
	159	5795	-1.30	0.92	3.01	0.15	4.08	22.29	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 = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 30-(13.71-6) = 22.29dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

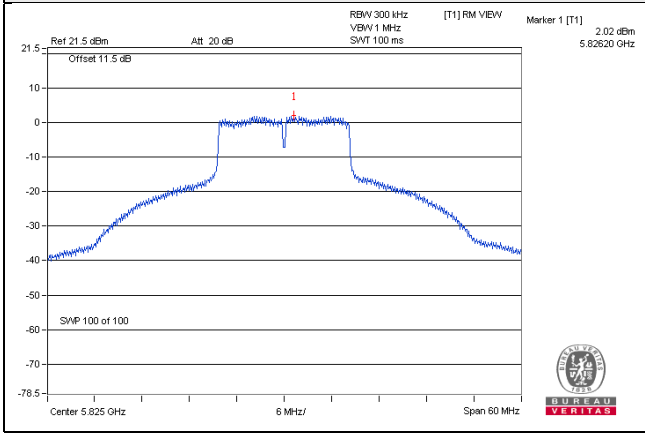
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-7.67	-5.45	3.01	0.33	-2.11	22.29	Pass
1	155	5775	-7.04	-4.82	3.01	0.33	-1.48	22.29	Pass

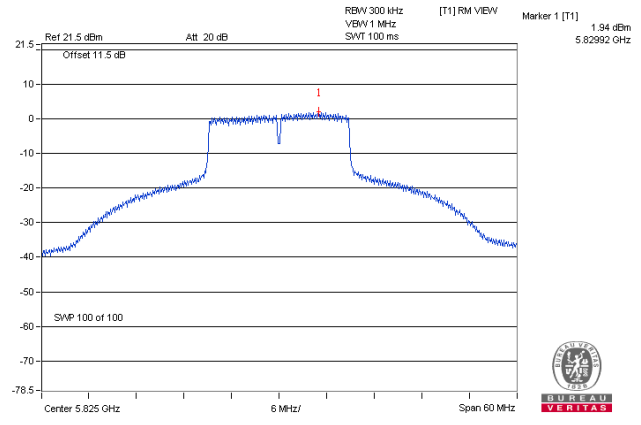
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10.7dBi + 10log(2) = 13.71dBi > 6dBi, so the power density limit shall be reduced to 30-(13.71-6) = 22.29dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

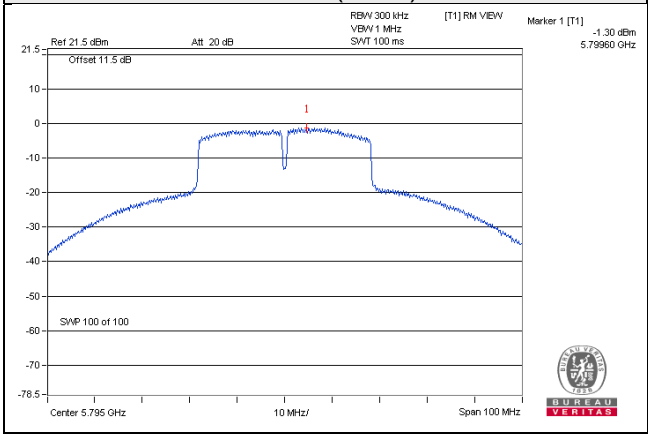
802.11a



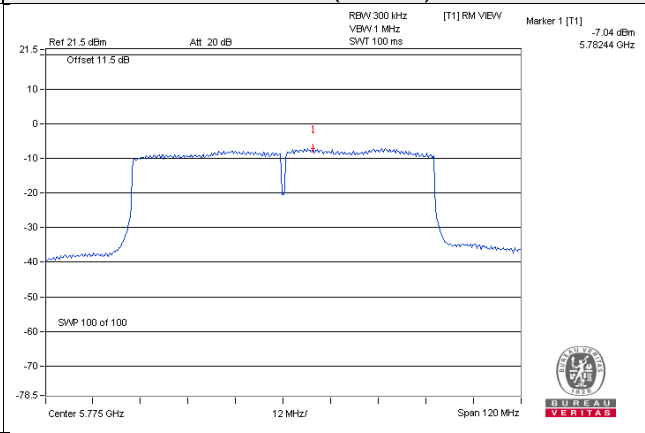
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode K

For U-NII-1 band:

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				
36	5180	7.06	6.64	0.17	10.04	13.39	Pass
40	5200	9.77	9.25	0.17	12.70	13.39	Pass
48	5240	9.93	9.47	0.17	12.89	13.39	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 = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 17-(9.61-6) = 13.39dBm.
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			
36	5180	6.70	6.54	9.63	13.39	Pass
40	5200	9.45	9.15	12.31	13.39	Pass
48	5240	9.69	9.27	12.50	13.39	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 = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 17-(9.61-6) = 13.39dBm.

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				
38	5190	0.75	0.66	0.16	3.87	13.39	Pass
46	5230	7.23	6.71	0.16	10.14	13.39	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 = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 17-(9.61-6) = 13.39dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

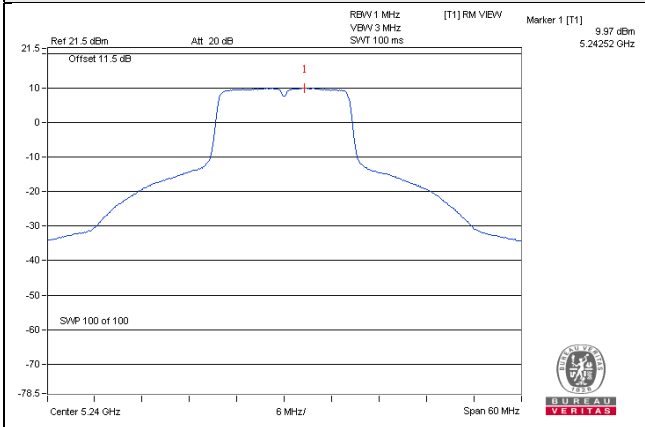
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-1.71	-2.27	0.34	1.37	13.39	Pass

Note:

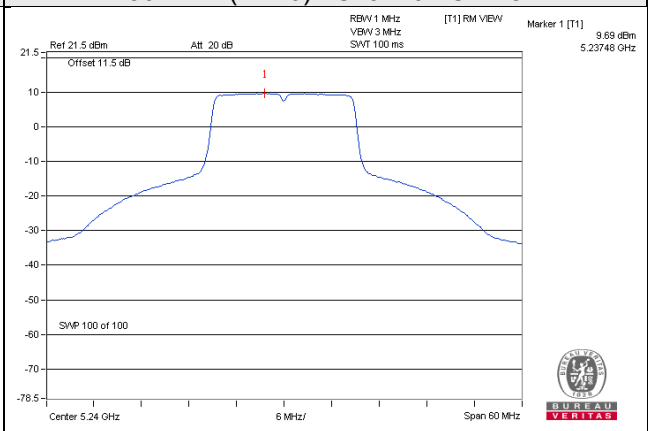
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 17-(9.61-6) = 13.39dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

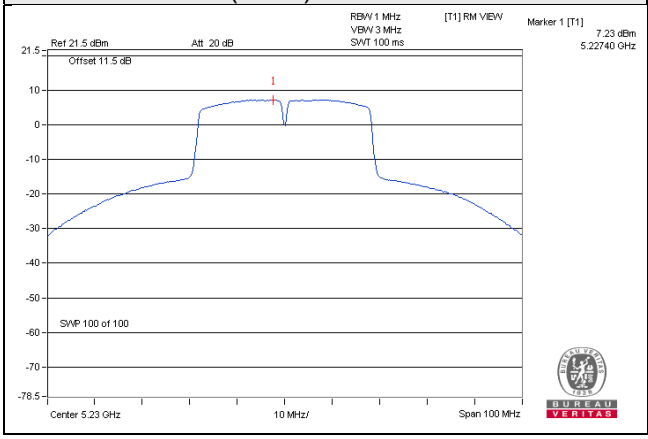
802.11a / Chain 0 / CH 48



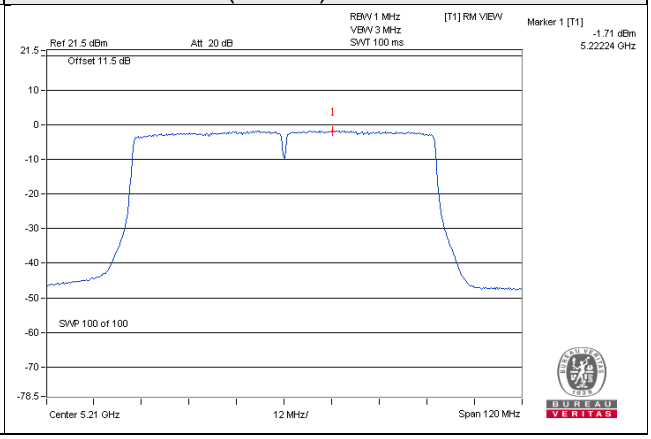
802.11n (HT20) / Chain 0 / CH 48



802.11n (HT40) / Chain 0 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.54	3.76	3.01	0.17	6.94	26.39	Pass
	157	5785	1.29	3.51	3.01	0.17	6.69	26.39	Pass
	165	5825	1.17	3.39	3.01	0.17	6.57	26.39	Pass
1	149	5745	1.37	3.59	3.01	0.17	6.77	26.39	Pass
	157	5785	1.79	4.01	3.01	0.17	7.19	26.39	Pass
	165	5825	1.94	4.16	3.01	0.17	7.34	26.39	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 = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 30-(9.61-6) = 26.39dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	1.30	3.52	3.01	6.53	26.39	Pass
	157	5785	1.09	3.31	3.01	6.32	26.39	Pass
	165	5825	0.79	3.01	3.01	6.02	26.39	Pass
1	149	5745	1.25	3.47	3.01	6.48	26.39	Pass
	157	5785	1.47	3.69	3.01	6.70	26.39	Pass
	165	5825	1.90	4.12	3.01	7.13	26.39	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 = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 30-(9.61-6) = 26.39dBm.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-1.05	1.17	3.01	0.16	4.34	26.39	Pass
	159	5795	-1.22	1.00	3.01	0.16	4.17	26.39	Pass
1	151	5755	-0.91	1.31	3.01	0.16	4.48	26.39	Pass
	159	5795	-0.76	1.46	3.01	0.16	4.63	26.39	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 = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 30-(9.61-6) = 26.39dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

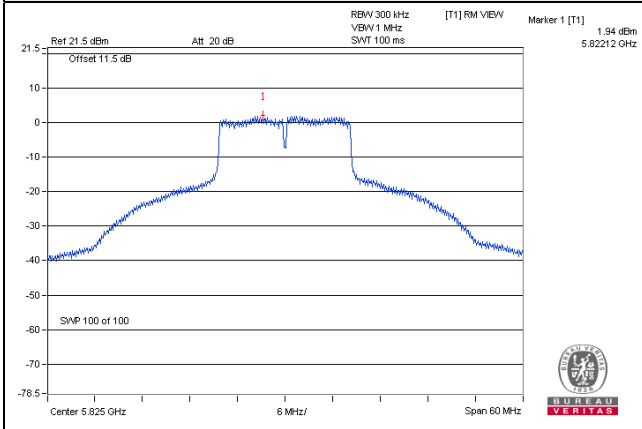
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-6.72	-4.50	3.01	0.34	-1.15	26.39	Pass
1	155	5775	-6.07	-3.85	3.01	0.34	-0.50	26.39	Pass

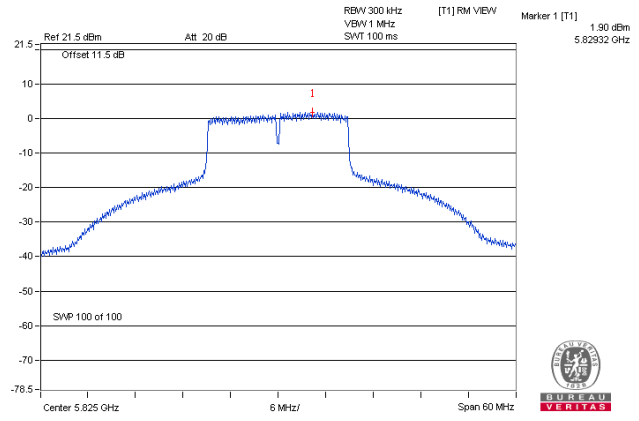
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.6dBi + 10log(2) = 9.61dBi > 6dBi, so the power density limit shall be reduced to 30-(9.61-6) = 26.39dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

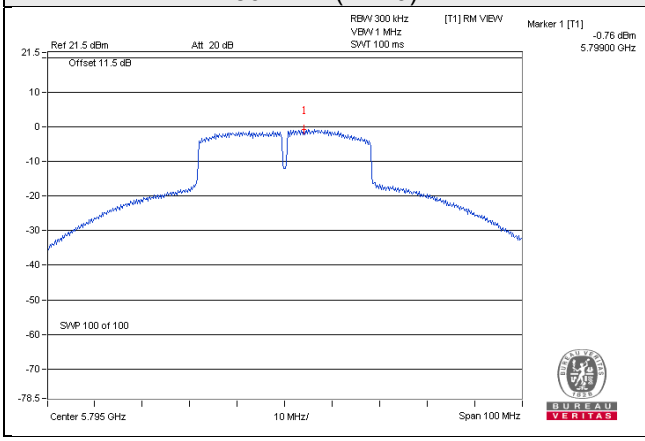
802.11a



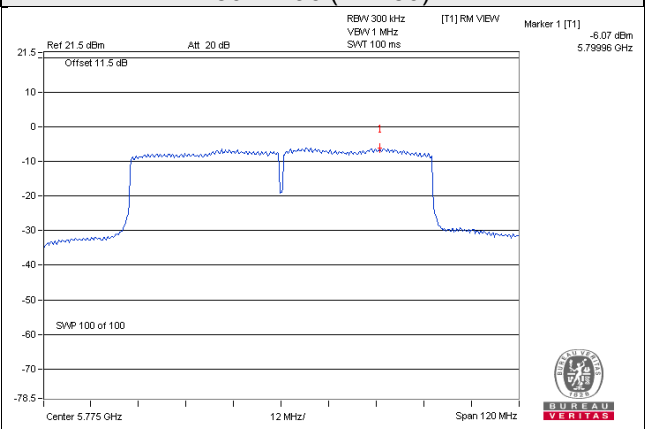
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

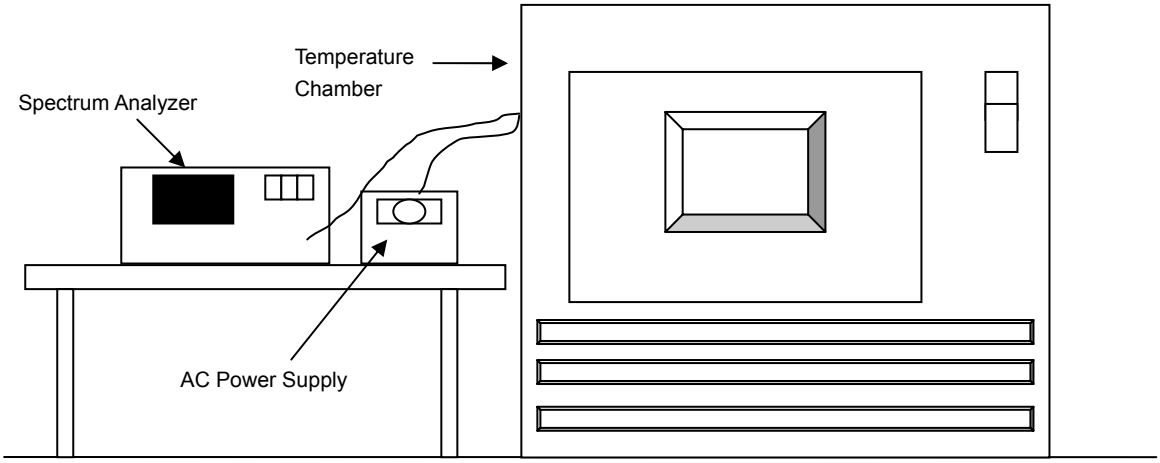


4.6 Frequency Stability

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 B

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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	5179.9743	-0.00050	5179.9727	-0.00053	5179.9757	-0.00047	5179.9754	-0.00047
40	120	5180.0012	0.00002	5180.0024	0.00005	5180.0032	0.00006	5180.0027	0.00005
30	120	5180.0239	0.00046	5180.0196	0.00038	5180.0198	0.00038	5180.0216	0.00042
20	120	5180.0027	0.00005	5180.0041	0.00008	5180.0025	0.00005	5180.0015	0.00003
10	120	5180.0167	0.00032	5180.0151	0.00029	5180.0157	0.00030	5180.0195	0.00038
0	120	5179.9958	-0.00008	5179.9972	-0.00005	5179.9942	-0.00011	5179.9937	-0.00012
-10	120	5179.9819	-0.00035	5179.9779	-0.00043	5179.9797	-0.00039	5179.9804	-0.00038
-20	120	5179.9746	-0.00049	5179.9768	-0.00045	5179.9763	-0.00046	5179.9721	-0.00054
-30	120	5179.9971	-0.00006	5180.0001	0.00000	5179.9974	-0.00005	5180.0009	0.00002

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
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	5180.0023	0.00004	5180.0039	0.00008	5180.0031	0.00006	5180.0008	0.00002
	120	5180.0027	0.00005	5180.0041	0.00008	5180.0025	0.00005	5180.0015	0.00003
	102	5180.0028	0.00005	5180.005	0.00010	5180.0033	0.00006	5180.0007	0.00001

Test Mode D

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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	5180.0051	0.00010	5180.0034	0.00007	5180.0023	0.00004	5180.002	0.00004
40	120	5179.9881	-0.00023	5179.9918	-0.00016	5179.9885	-0.00022	5179.9907	-0.00018
30	120	5179.9776	-0.00043	5179.9794	-0.00040	5179.9775	-0.00043	5179.9783	-0.00042
20	120	5179.9841	-0.00031	5179.9846	-0.00030	5179.9838	-0.00031	5179.9813	-0.00036
10	120	5179.976	-0.00046	5179.9771	-0.00044	5179.9756	-0.00047	5179.9783	-0.00042
0	120	5180.0256	0.00049	5180.0265	0.00051	5180.023	0.00044	5180.0248	0.00048
-10	120	5180.009	0.00017	5180.0116	0.00022	5180.0097	0.00019	5180.0094	0.00018
-20	120	5180.0147	0.00028	5180.0158	0.00031	5180.0116	0.00022	5180.0138	0.00027
-30	120	5180.0229	0.00044	5180.0223	0.00043	5180.0205	0.00040	5180.0195	0.00038

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
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	5179.9841	-0.00031	5179.9856	-0.00028	5179.9832	-0.00032	5179.9819	-0.00035
	120	5179.9841	-0.00031	5179.9846	-0.00030	5179.9838	-0.00031	5179.9813	-0.00036
	102	5179.9833	-0.00032	5179.9839	-0.00031	5179.9834	-0.00032	5179.9816	-0.00036

Test Mode E

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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	5180.0052	0.00010	5180.0037	0.00007	5180.0056	0.00011	5180.0058	0.00011
40	120	5179.9842	-0.00031	5179.9819	-0.00035	5179.9864	-0.00026	5179.9854	-0.00028
30	120	5179.9886	-0.00022	5179.9903	-0.00019	5179.9877	-0.00024	5179.9888	-0.00022
20	120	5179.99	-0.00019	5179.9938	-0.00012	5179.9916	-0.00016	5179.9938	-0.00012
10	120	5180.0223	0.00043	5180.0242	0.00047	5180.0239	0.00046	5180.0227	0.00044
0	120	5179.9808	-0.00037	5179.9761	-0.00046	5179.9771	-0.00044	5179.9764	-0.00046
-10	120	5179.993	-0.00014	5179.9926	-0.00014	5179.9917	-0.00016	5179.9909	-0.00018
-20	120	5179.9841	-0.00031	5179.9822	-0.00034	5179.9867	-0.00026	5179.9838	-0.00031
-30	120	5180.0036	0.00007	5180.0019	0.00004	5179.9992	-0.00002	5180.0032	0.00006

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
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	5179.9905	-0.00018	5179.9948	-0.00010	5179.9911	-0.00017	5179.9939	-0.00012
	120	5179.99	-0.00019	5179.9938	-0.00012	5179.9916	-0.00016	5179.9938	-0.00012
	102	5179.9907	-0.00018	5179.993	-0.00014	5179.9914	-0.00017	5179.9947	-0.00010

Test Mode G

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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	5180.0133	0.00026	5180.0109	0.00021	5180.0131	0.00025	5180.0147	0.00028
40	120	5179.9839	-0.00031	5179.9841	-0.00031	5179.9873	-0.00025	5179.9868	-0.00025
30	120	5180.023	0.00044	5180.022	0.00042	5180.0247	0.00048	5180.0235	0.00045
20	120	5180.0247	0.00048	5180.0271	0.00052	5180.027	0.00052	5180.0237	0.00046
10	120	5180.0206	0.00040	5180.0242	0.00047	5180.0216	0.00042	5180.0238	0.00046
0	120	5180.001	0.00002	5179.9983	-0.00003	5180.0018	0.00003	5179.9995	-0.00001
-10	120	5179.9904	-0.00019	5179.9884	-0.00022	5179.9913	-0.00017	5179.988	-0.00023
-20	120	5179.9874	-0.00024	5179.9872	-0.00025	5179.9882	-0.00023	5179.9865	-0.00026
-30	120	5179.9809	-0.00037	5179.9773	-0.00044	5179.9807	-0.00037	5179.9809	-0.00037

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
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	5180.0248	0.00048	5180.028	0.00054	5180.028	0.00054	5180.0236	0.00046
	120	5180.0247	0.00048	5180.0271	0.00052	5180.027	0.00052	5180.0237	0.00046
	102	5180.0252	0.00049	5180.0269	0.00052	5180.0275	0.00053	5180.0245	0.00047

Test Mode I

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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	5179.9835	-0.00032	5179.9792	-0.00040	5179.979	-0.00041	5179.9811	-0.00036
40	120	5179.9949	-0.00010	5179.9942	-0.00011	5179.9932	-0.00013	5179.9947	-0.00010
30	120	5180.013	0.00025	5180.0089	0.00017	5180.0105	0.00020	5180.0133	0.00026
20	120	5179.9853	-0.00028	5179.9858	-0.00027	5179.9872	-0.00025	5179.9866	-0.00026
10	120	5179.9873	-0.00025	5179.9873	-0.00025	5179.9874	-0.00024	5179.9851	-0.00029
0	120	5180.0214	0.00041	5180.0229	0.00044	5180.0226	0.00044	5180.021	0.00041
-10	120	5179.9868	-0.00025	5179.9861	-0.00027	5179.9846	-0.00030	5179.985	-0.00029
-20	120	5180.0138	0.00027	5180.0101	0.00019	5180.012	0.00023	5180.01	0.00019
-30	120	5180.0137	0.00026	5180.0144	0.00028	5180.0122	0.00024	5180.012	0.00023

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
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	5179.9853	-0.00028	5179.9855	-0.00028	5179.9875	-0.00024	5179.9873	-0.00025
	120	5179.9853	-0.00028	5179.9858	-0.00027	5179.9872	-0.00025	5179.9866	-0.00026
	102	5179.9847	-0.00030	5179.9861	-0.00027	5179.9868	-0.00025	5179.9868	-0.00025

Test Mode K

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
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	5180.0038	0.00007	5180.0063	0.00012	5180.0047	0.00009	5180.0026	0.00005
40	120	5180.0147	0.00028	5180.0172	0.00033	5180.0141	0.00027	5180.0127	0.00025
30	120	5180.0153	0.00030	5180.0133	0.00026	5180.0154	0.00030	5180.0141	0.00027
20	120	5179.9903	-0.00019	5179.9942	-0.00011	5179.9948	-0.00010	5179.9921	-0.00015
10	120	5180.0108	0.00021	5180.012	0.00023	5180.0099	0.00019	5180.0126	0.00024
0	120	5179.9988	-0.00002	5180.0001	0.00000	5179.9996	-0.00001	5179.9985	-0.00003
-10	120	5180.0247	0.00048	5180.0229	0.00044	5180.0232	0.00045	5180.0254	0.00049
-20	120	5180.0069	0.00013	5180.0058	0.00011	5180.0092	0.00018	5180.0087	0.00017
-30	120	5180.0044	0.00008	5180.0032	0.00006	5180.0013	0.00003	5180.0035	0.00007

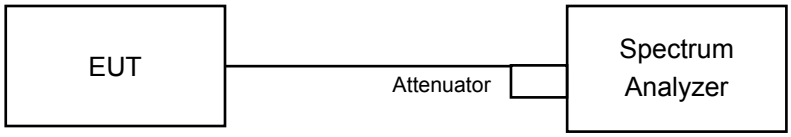
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5179.9908	-0.00018	5179.9942	-0.00011	5179.9941	-0.00011	5179.9914	-0.00017
	120	5179.9903	-0.00019	5179.9942	-0.00011	5179.9948	-0.00010	5179.9921	-0.00015
	102	5179.9903	-0.00019	5179.9932	-0.00013	5179.9944	-0.00011	5179.9926	-0.00014

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

Measurement Procedure REF

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

Test Mode B

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.40	16.41	0.5	Pass
157	5785	16.40	16.38	0.5	Pass
165	5825	16.40	16.39	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.65	17.65	0.5	Pass
157	5785	17.63	17.62	0.5	Pass
165	5825	17.64	17.61	0.5	Pass

802.11n (HT40)

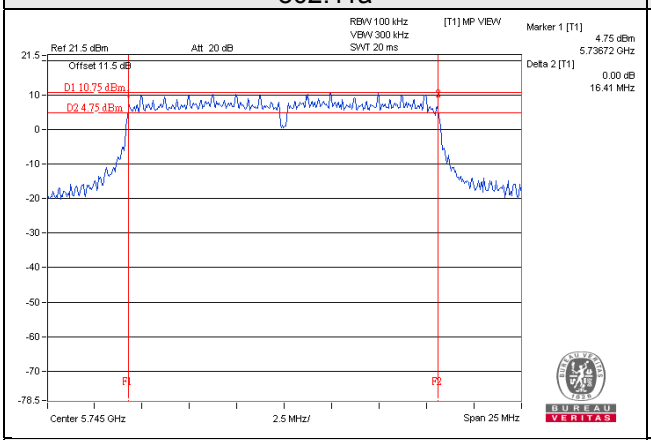
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.58	35.25	0.5	Pass
159	5795	35.93	35.23	0.5	Pass

802.11ac (VHT80)

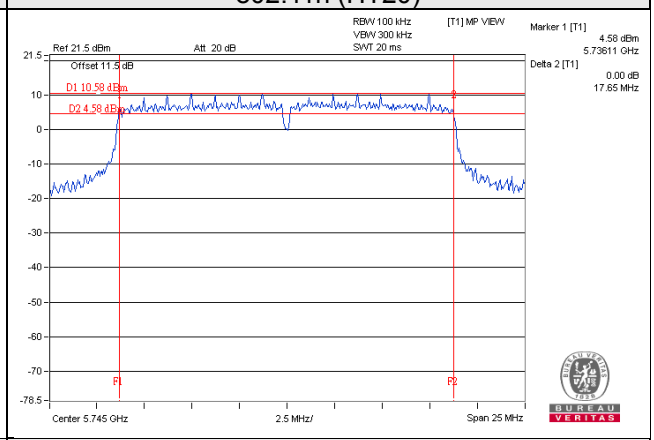
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.38	75.81	0.5	Pass

Spectrum Plot of Worst Value

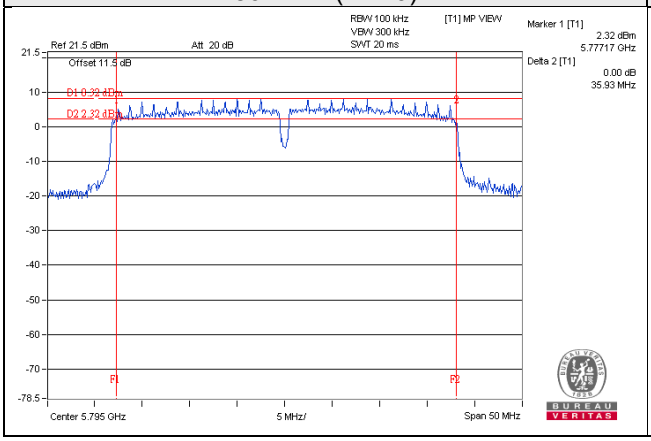
802.11a



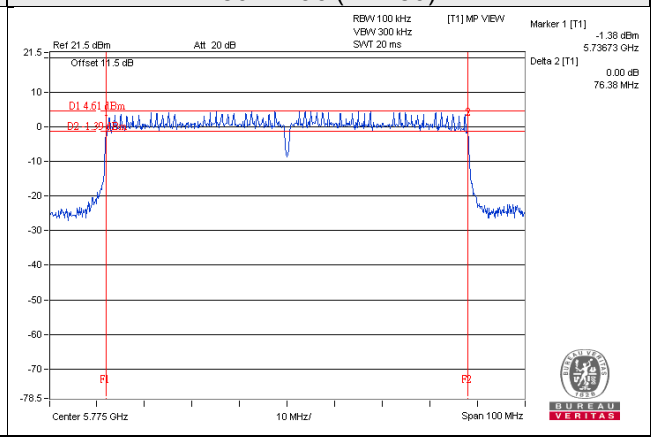
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode D

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.39	16.42	0.5	Pass
157	5785	16.40	16.42	0.5	Pass
165	5825	16.39	16.40	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.64	17.67	0.5	Pass
157	5785	17.62	17.65	0.5	Pass
165	5825	17.64	17.66	0.5	Pass

802.11n (HT40)

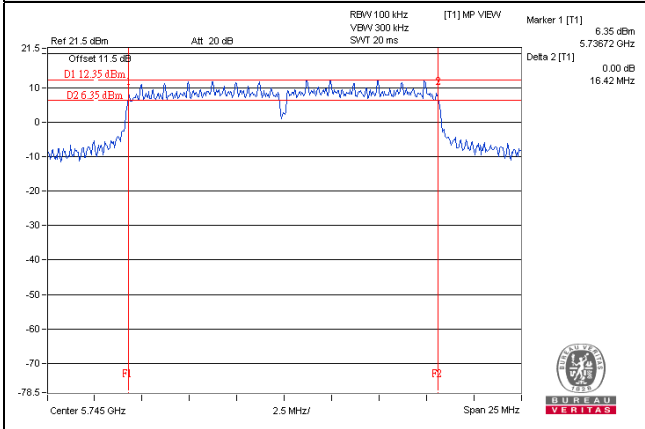
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.43	35.75	0.5	Pass
159	5795	35.20	36.33	0.5	Pass

802.11ac (VHT80)

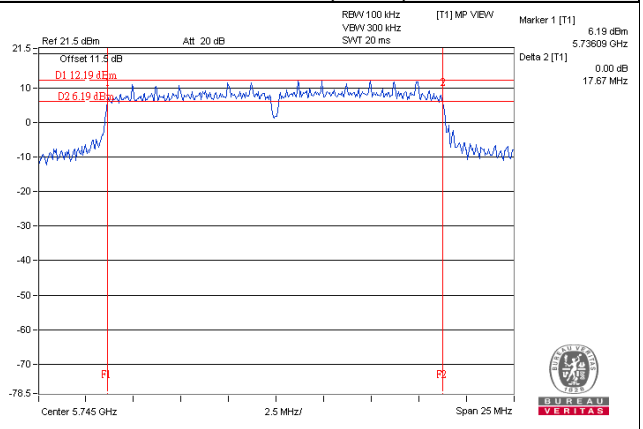
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.22	75.62	0.5	Pass

Spectrum Plot of Worst Value

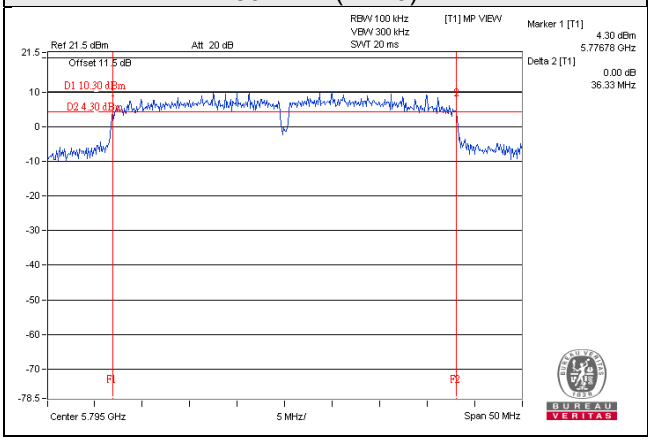
802.11a



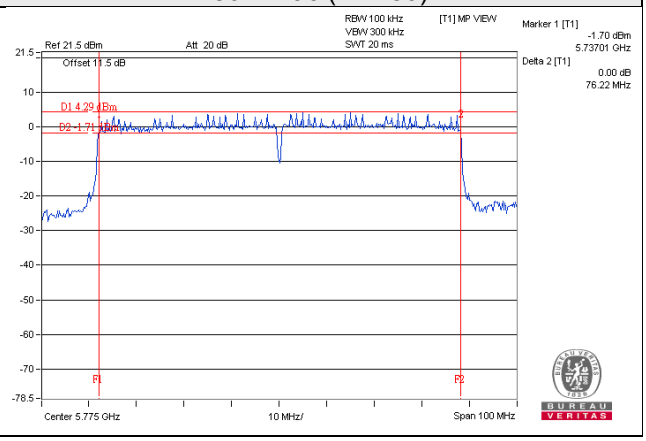
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode E

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.39	16.42	0.5	Pass
157	5785	16.40	16.42	0.5	Pass
165	5825	16.39	16.40	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.64	17.67	0.5	Pass
157	5785	17.62	17.65	0.5	Pass
165	5825	17.64	17.66	0.5	Pass

802.11n (HT40)

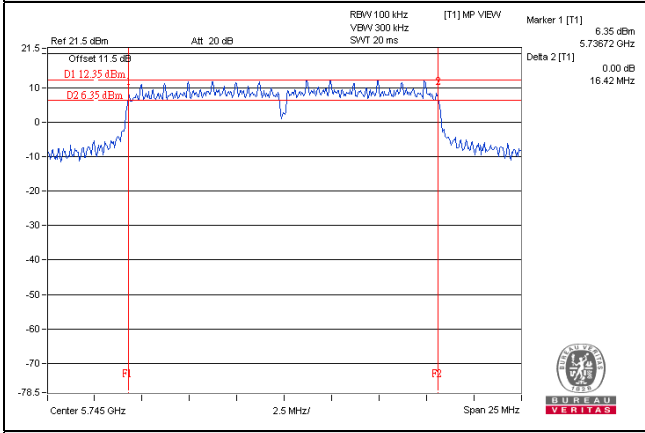
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.43	35.75	0.5	Pass
159	5795	35.20	36.33	0.5	Pass

802.11ac (VHT80)

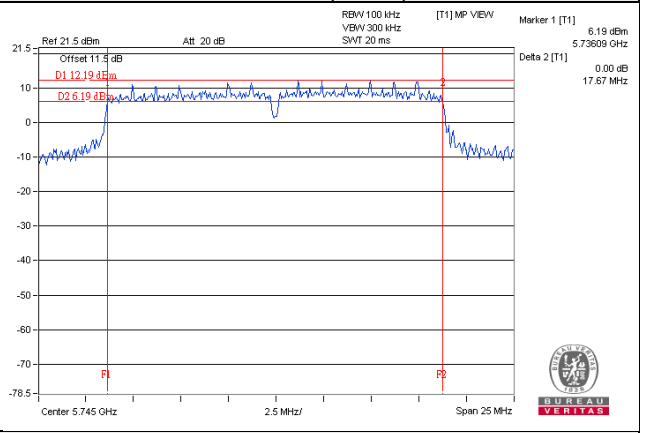
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.22	75.62	0.5	Pass

Spectrum Plot of Worst Value

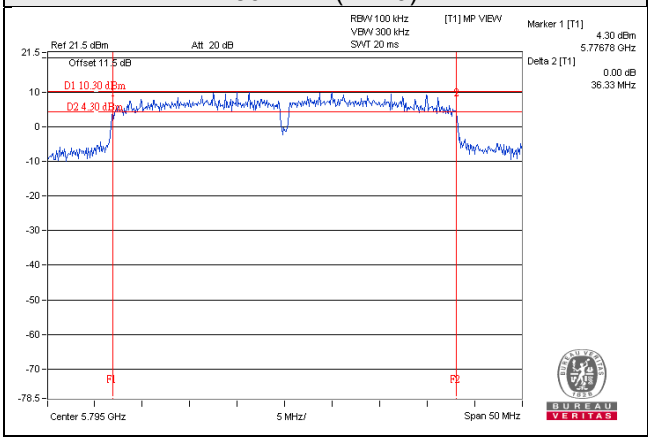
802.11a



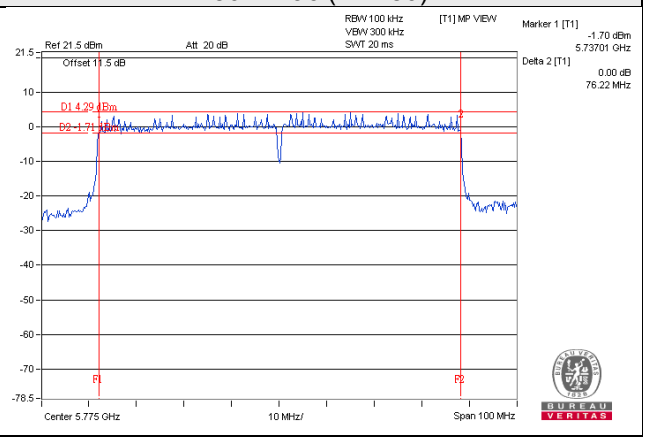
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode G

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.38	16.42	0.5	Pass
157	5785	16.40	16.40	0.5	Pass
165	5825	16.41	16.41	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.62	17.67	0.5	Pass
157	5785	17.61	17.64	0.5	Pass
165	5825	17.64	17.67	0.5	Pass

802.11n (HT40)

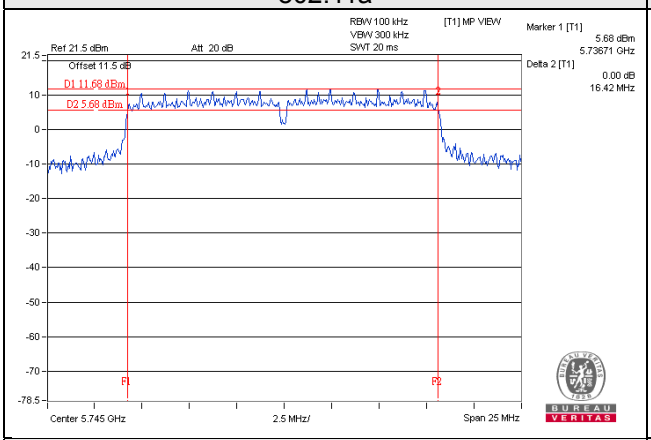
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.27	36.31	0.5	Pass
159	5795	35.40	35.59	0.5	Pass

802.11ac (VHT80)

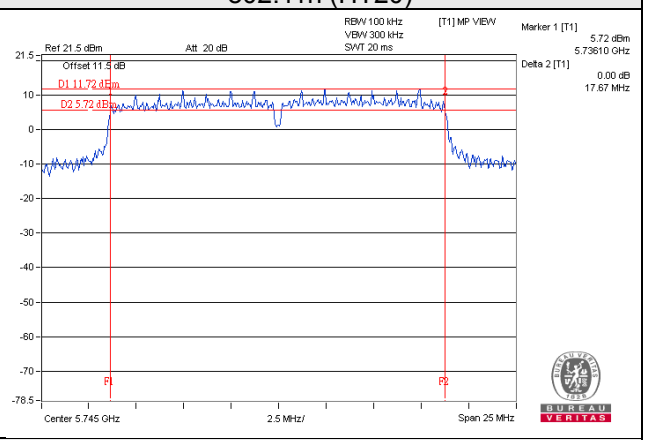
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.38	75.90	0.5	Pass

Spectrum Plot of Worst Value

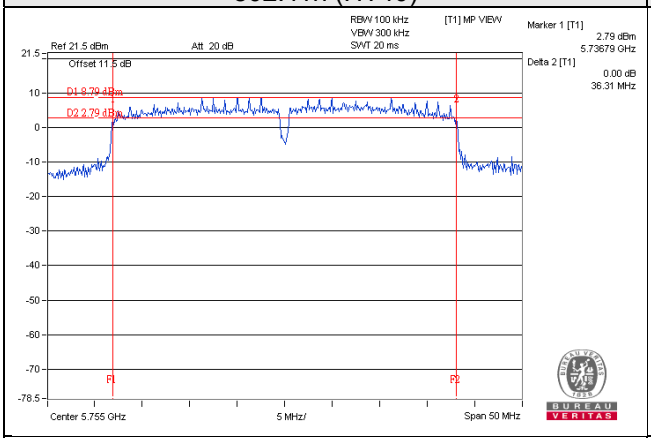
802.11a



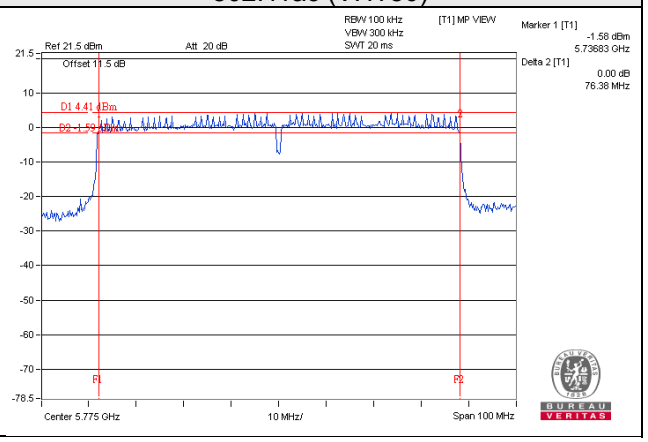
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode I

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.39	16.43	0.5	Pass
157	5785	16.39	16.41	0.5	Pass
165	5825	16.41	16.41	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.65	17.66	0.5	Pass
157	5785	17.65	17.64	0.5	Pass
165	5825	17.63	17.64	0.5	Pass

802.11n (HT40)

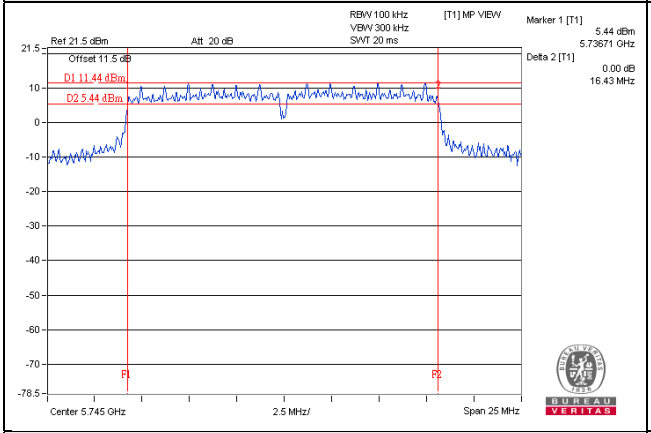
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.42	35.20	0.5	Pass
159	5795	35.21	35.25	0.5	Pass

802.11ac (VHT80)

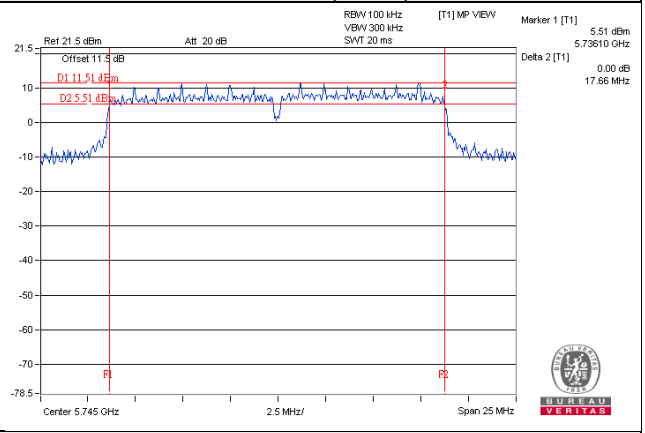
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.03	75.95	0.5	Pass

Spectrum Plot of Worst Value

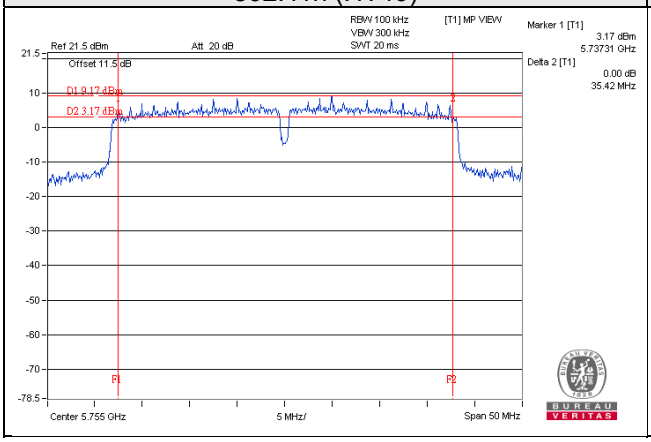
802.11a



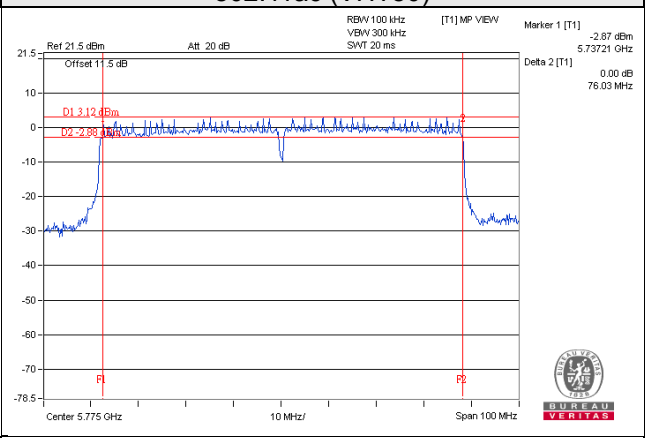
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode K

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.39	16.43	0.5	Pass
157	5785	16.40	16.41	0.5	Pass
165	5825	16.39	16.41	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.62	17.68	0.5	Pass
157	5785	17.61	17.65	0.5	Pass
165	5825	17.64	17.62	0.5	Pass

802.11n (HT40)

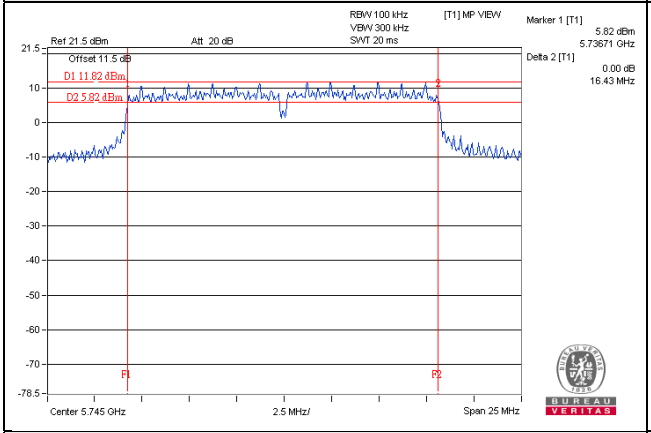
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.80	35.79	0.5	Pass
159	5795	36.14	35.19	0.5	Pass

802.11ac (VHT80)

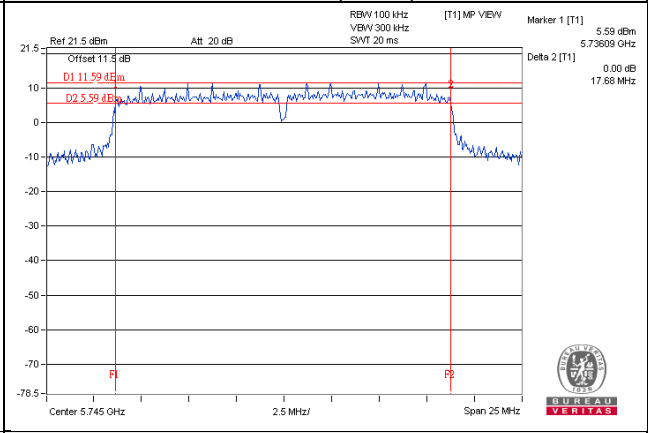
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.13	75.58	0.5	Pass

Spectrum Plot of Worst Value

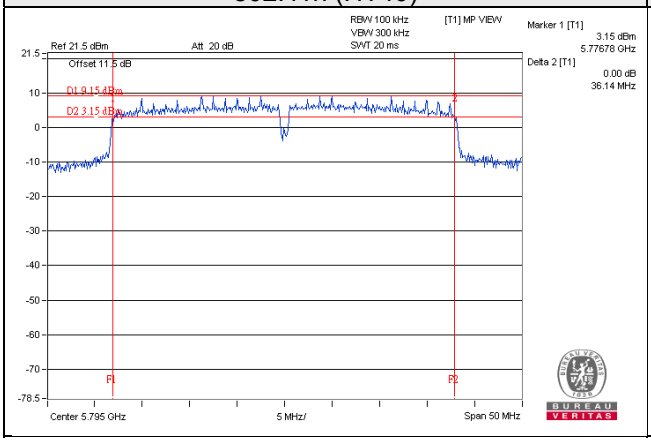
802.11a



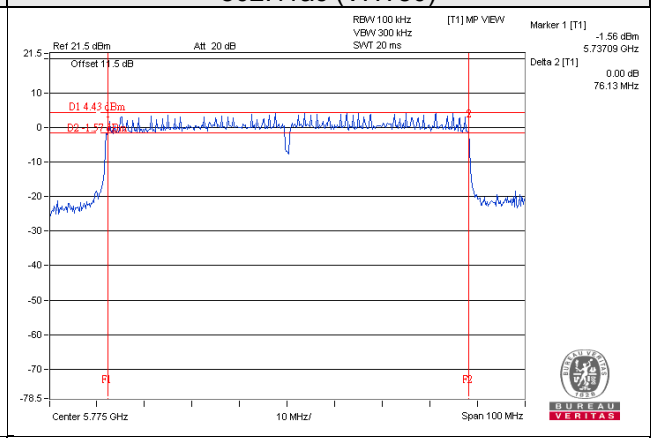
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



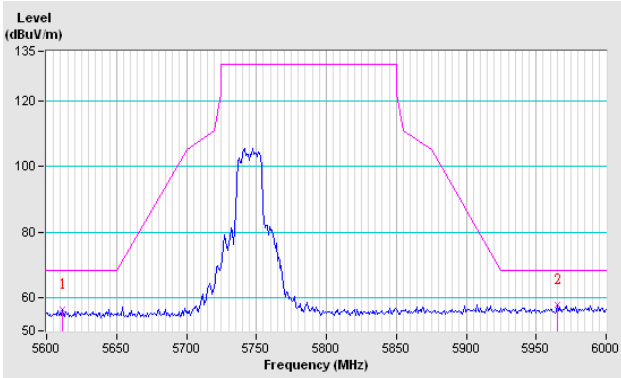
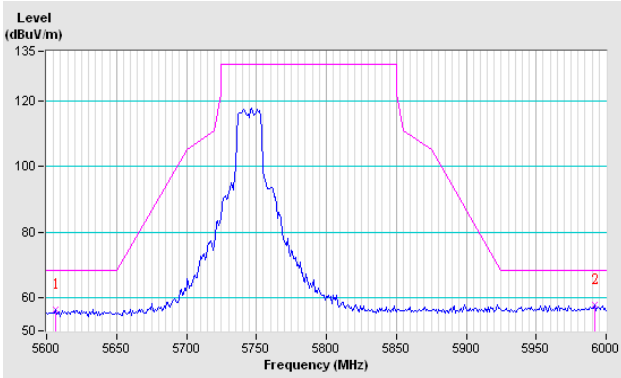
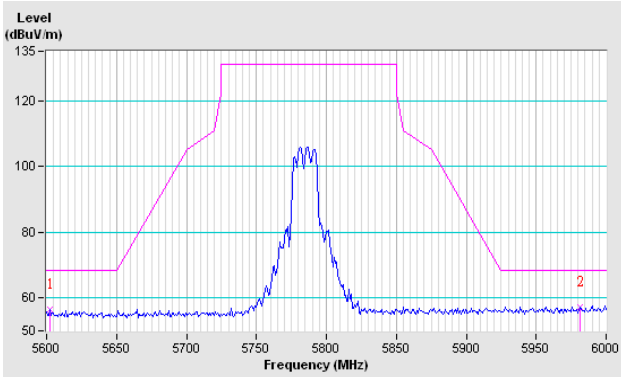
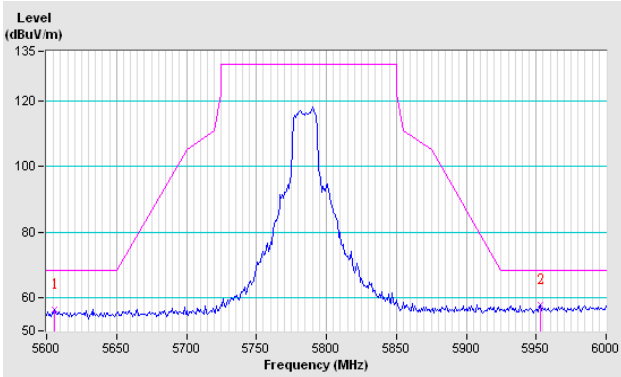
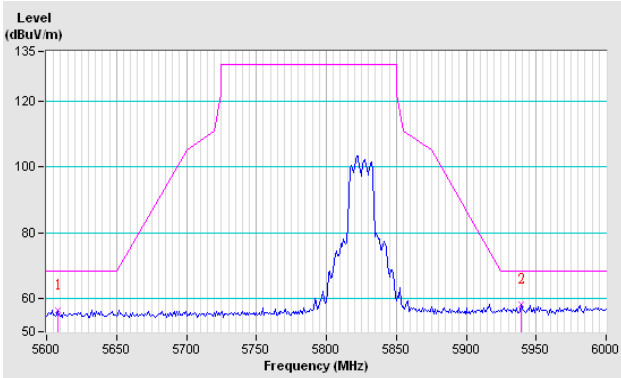
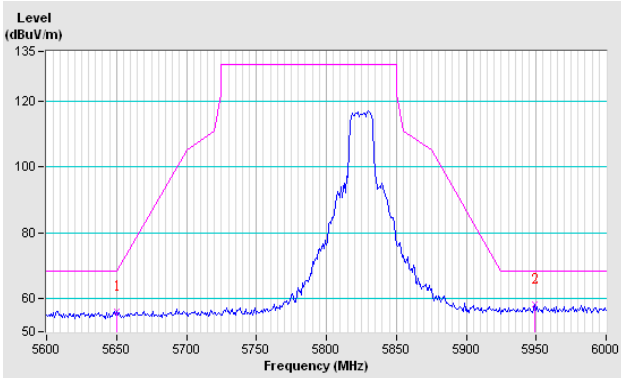
5 Pictures of Test Arrangements

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

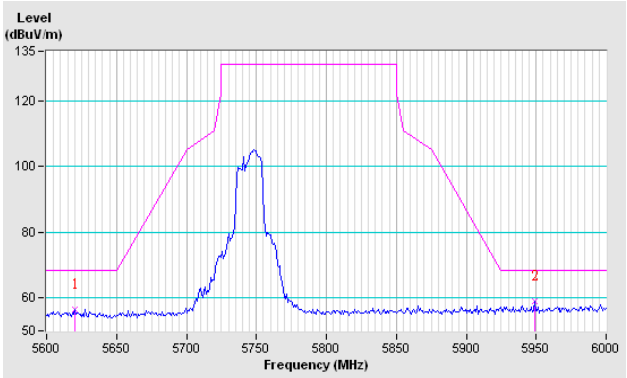
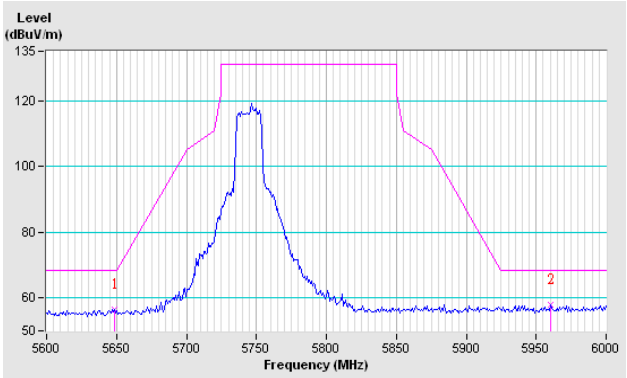
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

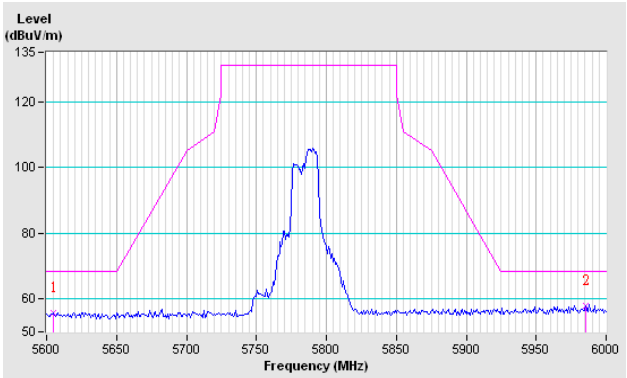
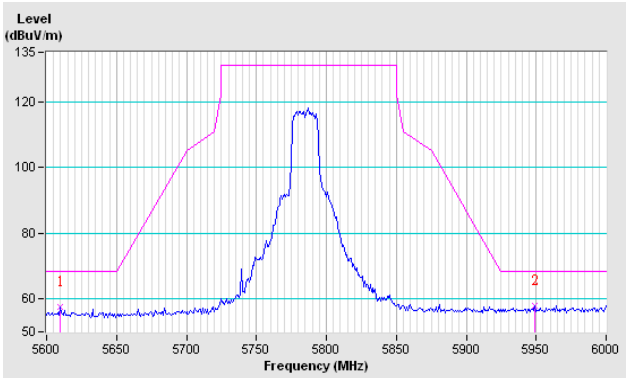
Test Mode B

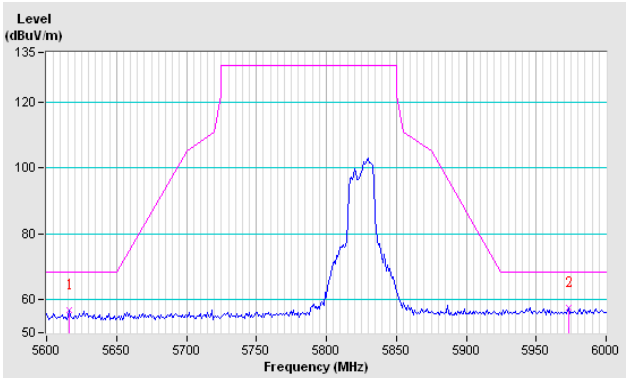
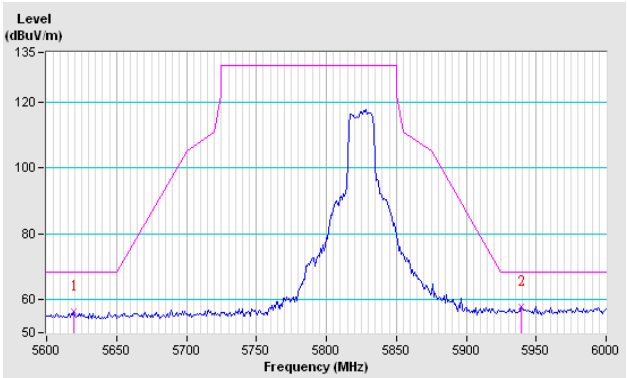
802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

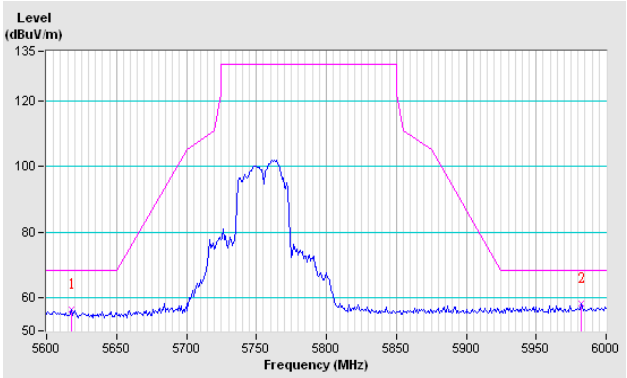
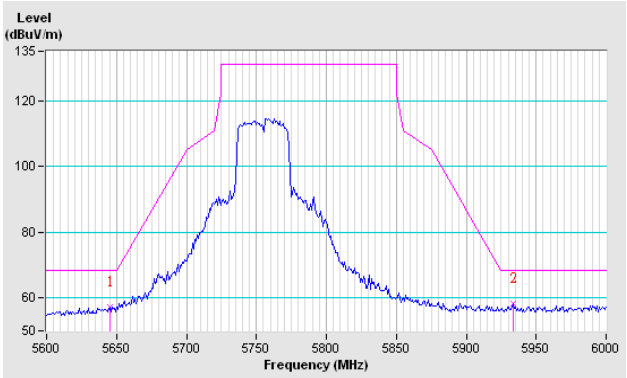
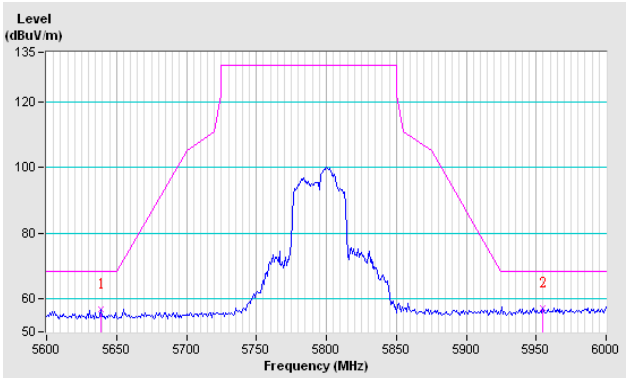
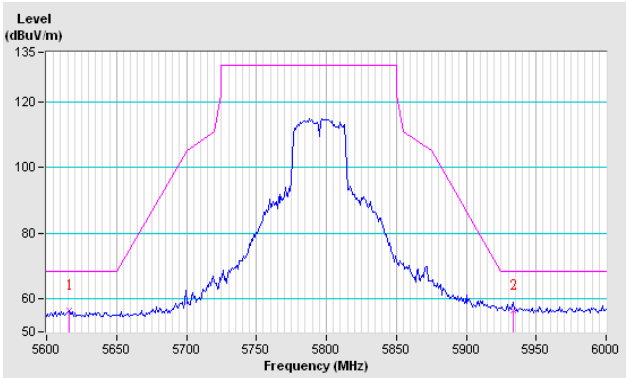
802.11n (HT20)

CH149	
Horizontal	Vertical
	

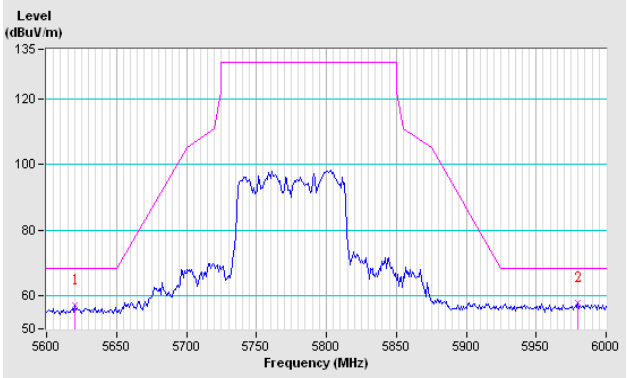
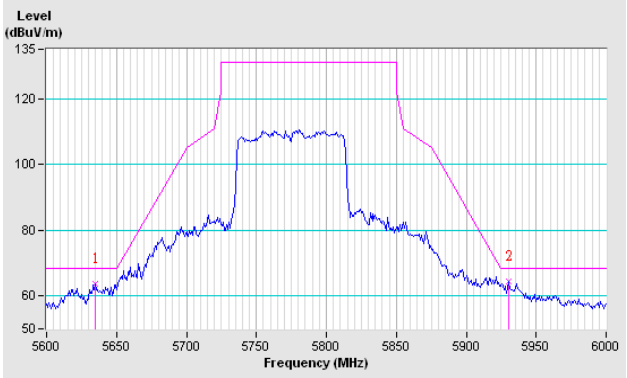
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

802.11n (HT40)

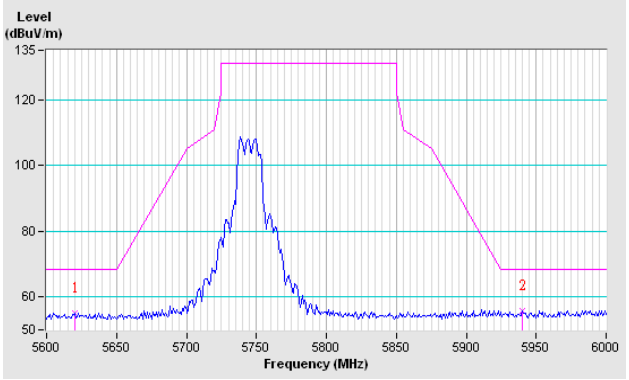
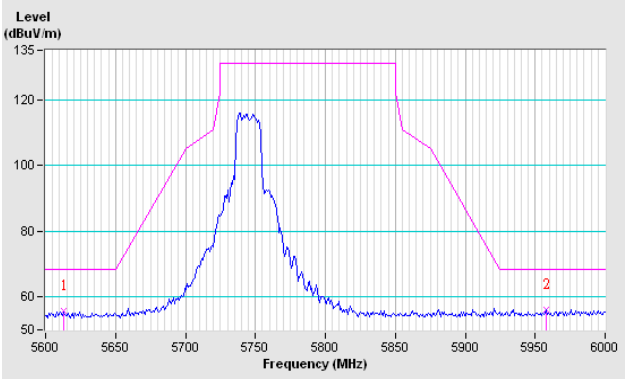
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

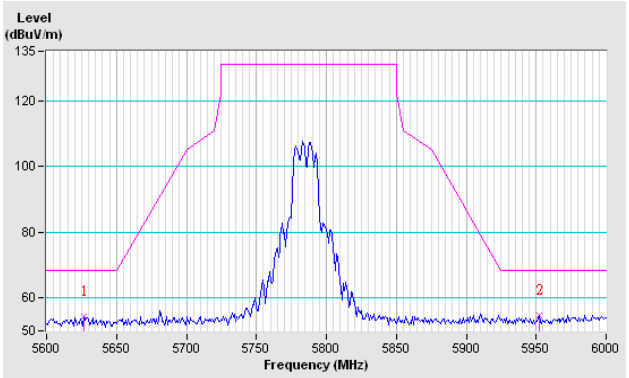
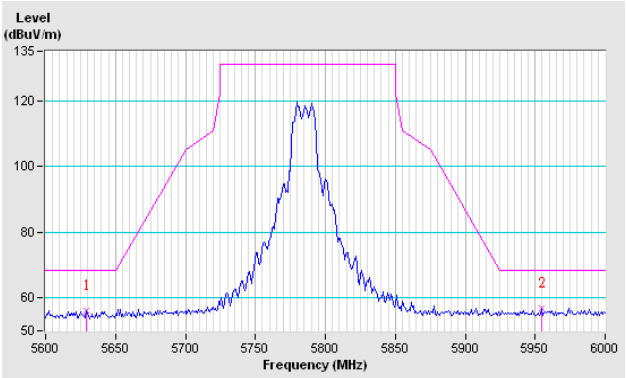
802.11ac (VHT80)

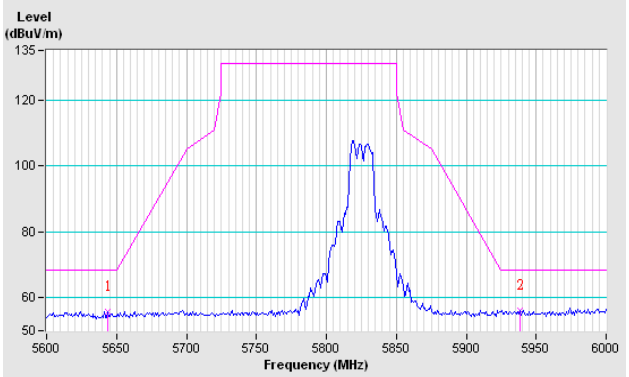
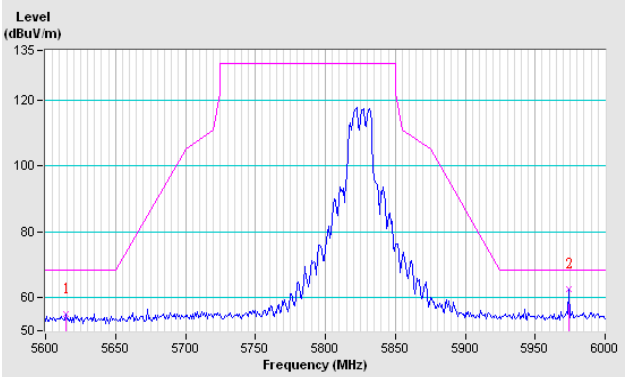
CH155	
Horizontal	Vertical
	

Test Mode D

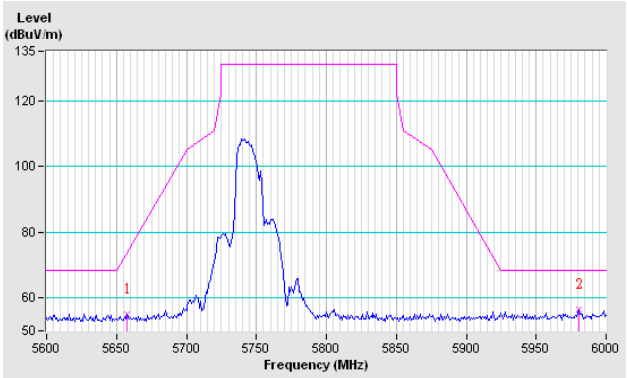
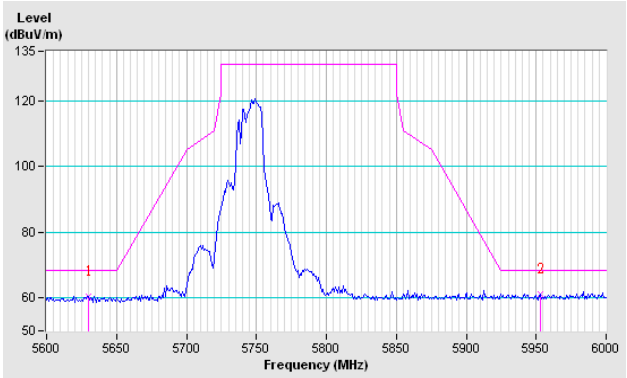
802.11a

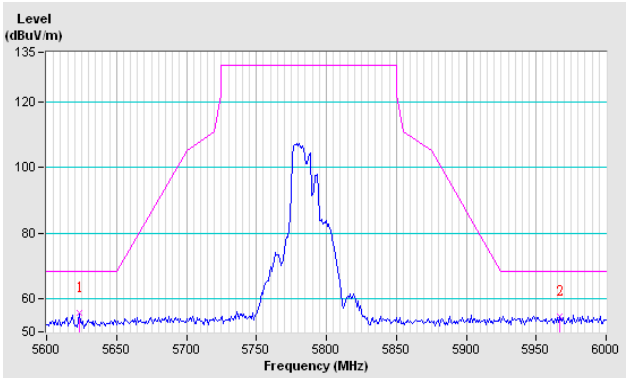
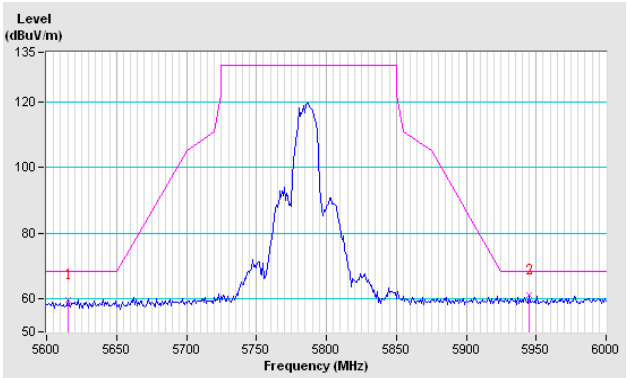
CH149	
Horizontal	Vertical
	

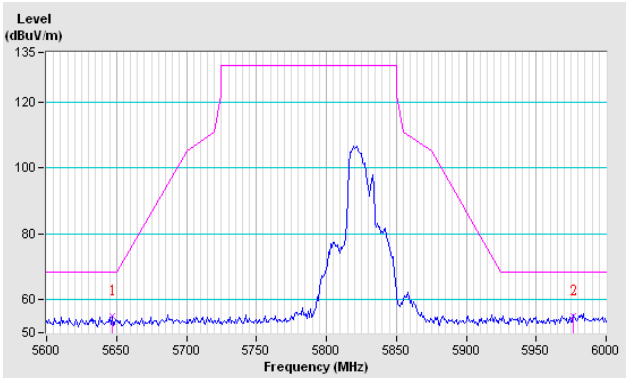
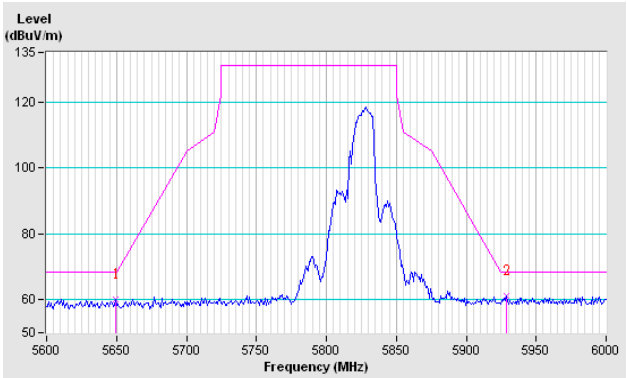
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

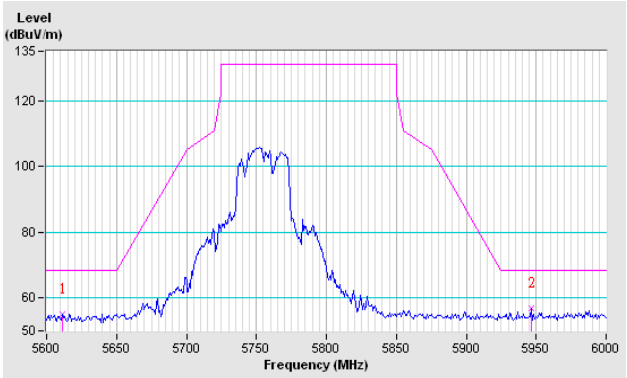
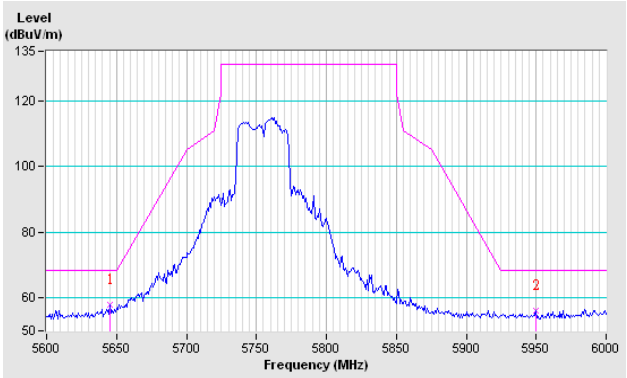
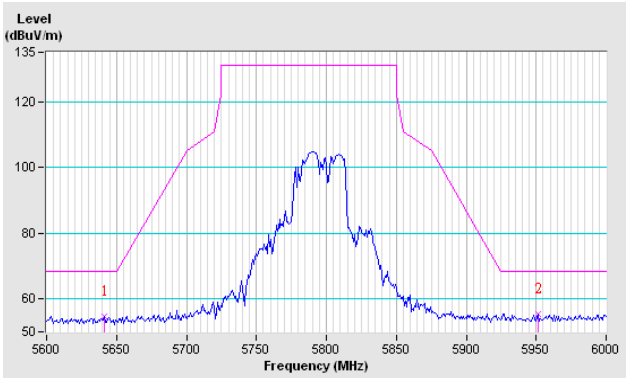
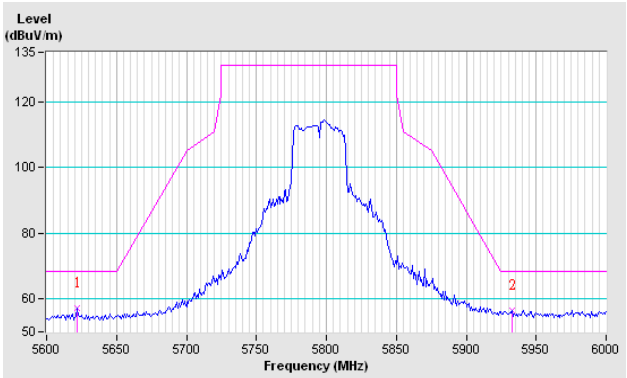
802.11n (HT20)

CH149	
Horizontal	Vertical
	

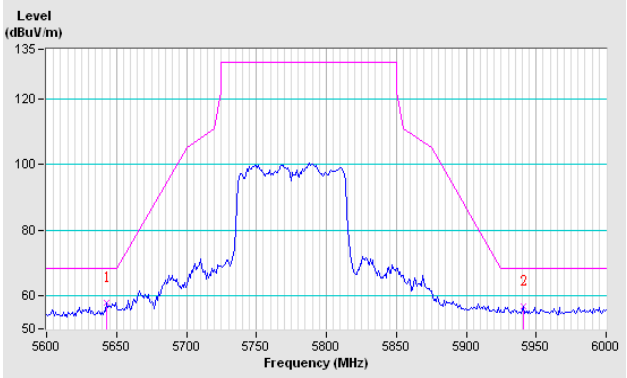
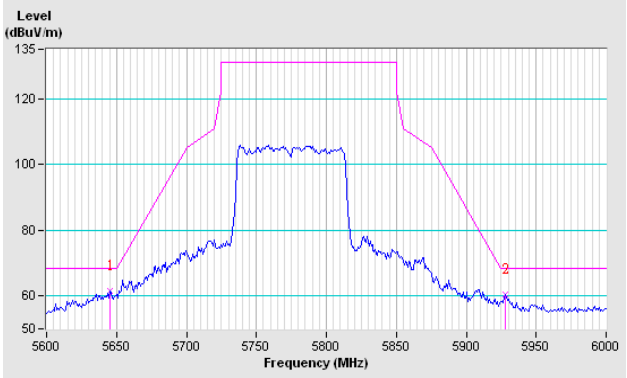
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

802.11n (HT40)

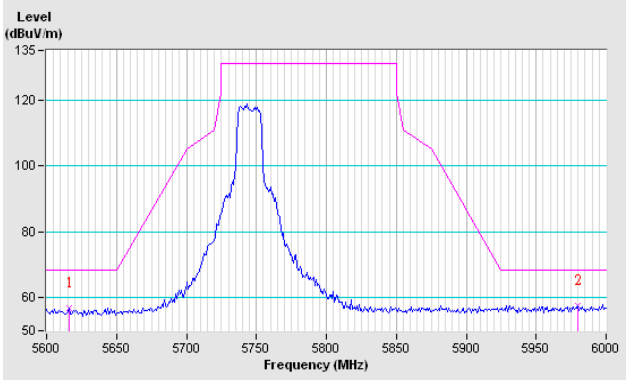
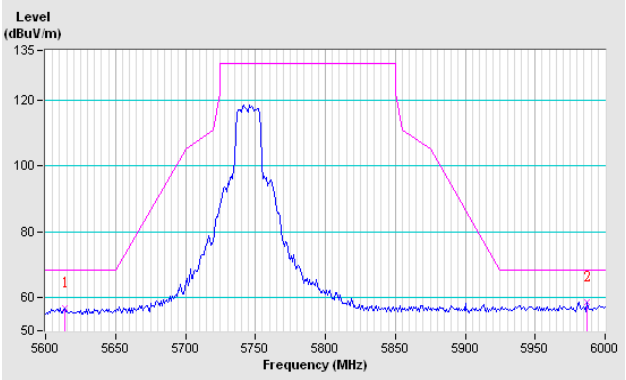
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

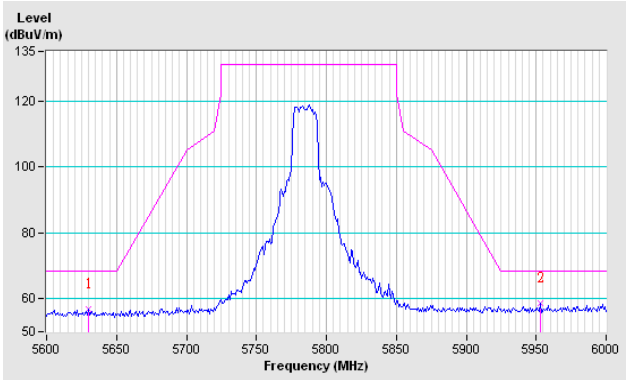
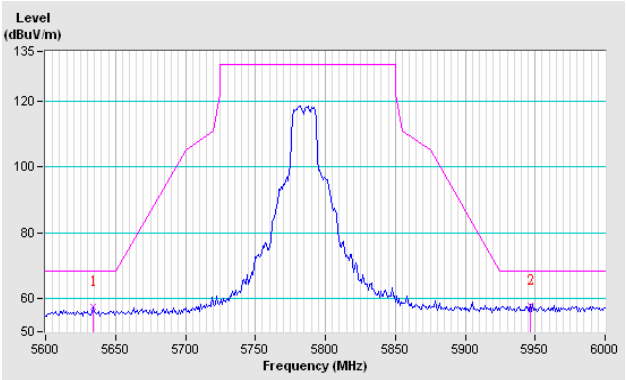
802.11ac (VHT80)

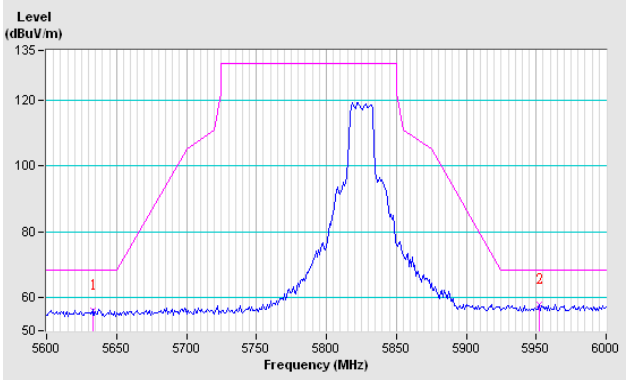
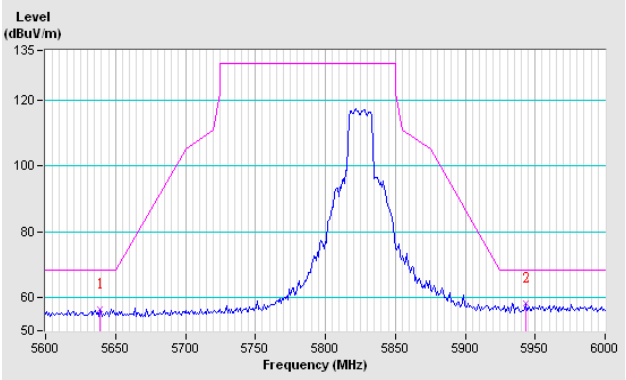
CH155	
Horizontal	Vertical
	

Test Mode G

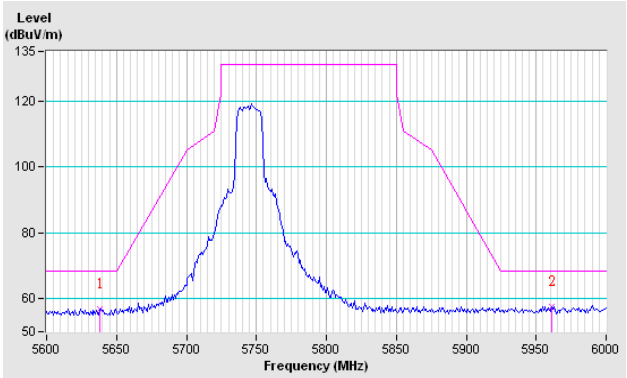
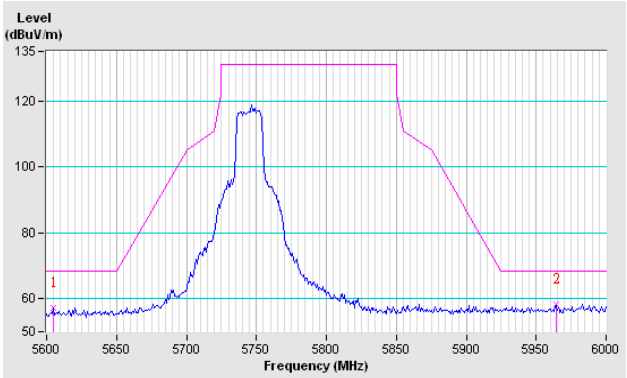
802.11a

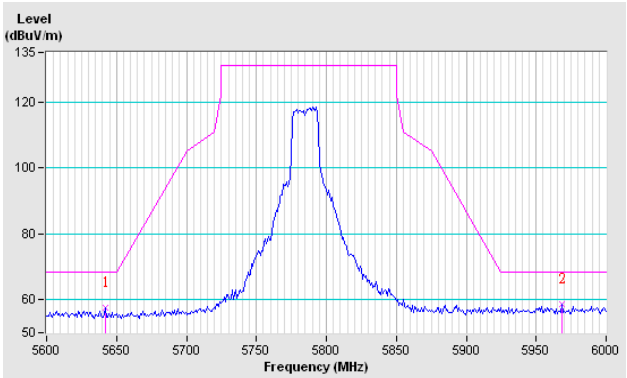
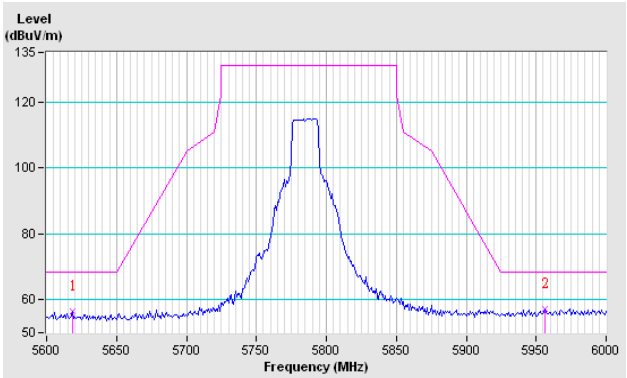
CH149	
Horizontal	Vertical
	

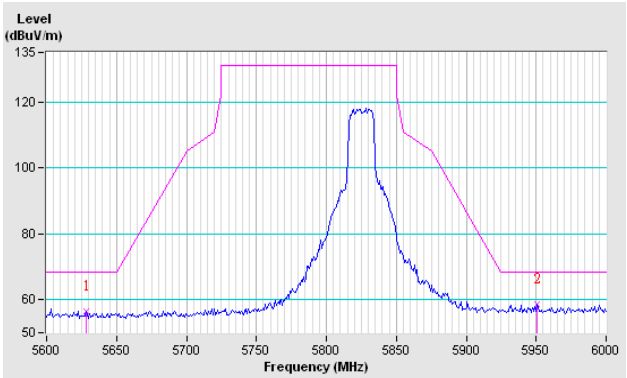
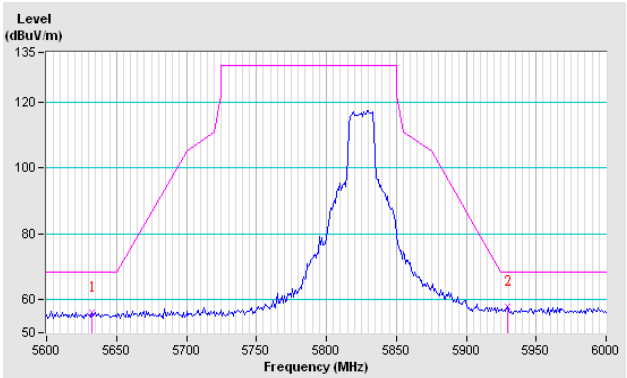
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

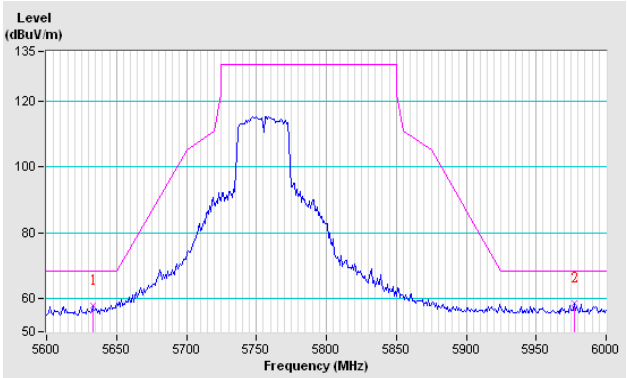
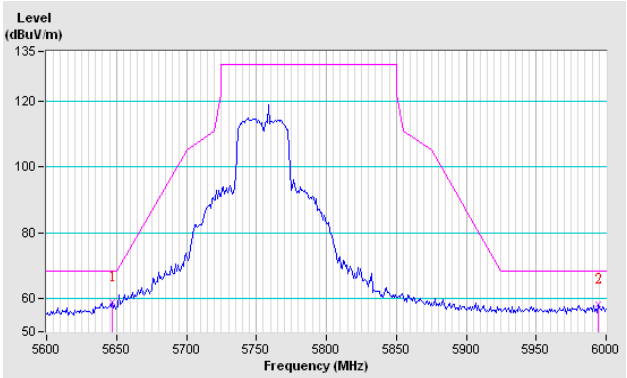
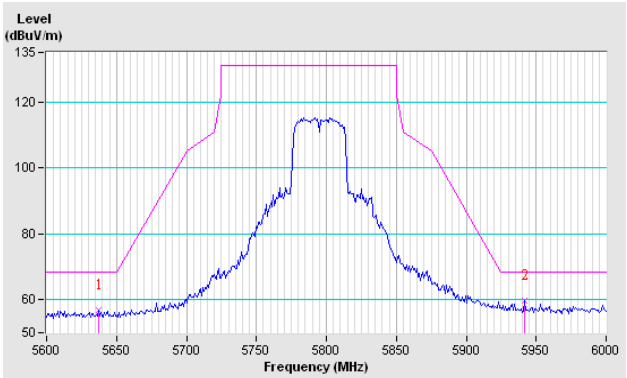
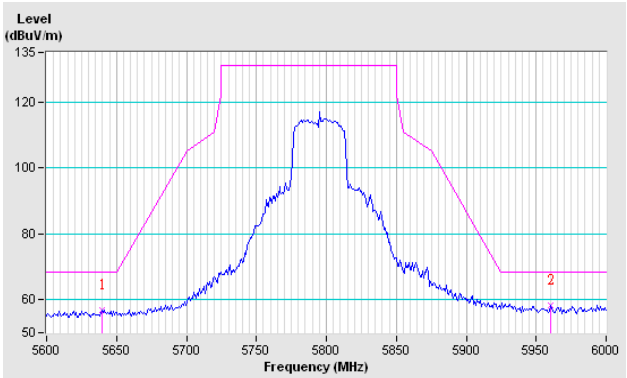
802.11n (HT20)

CH149	
Horizontal	Vertical
	

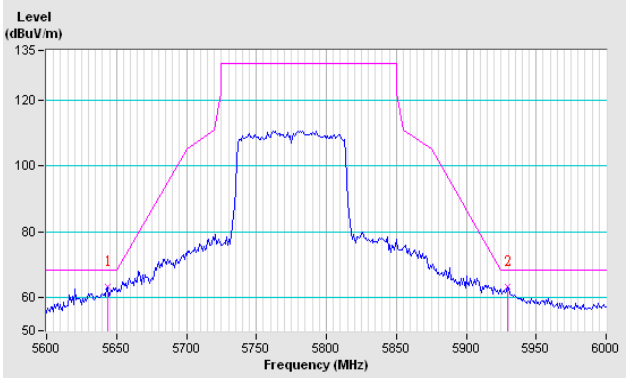
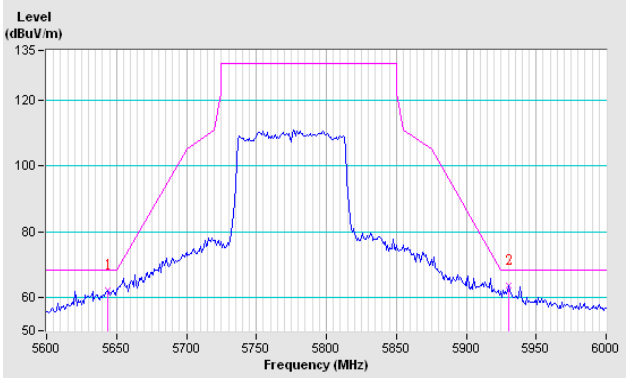
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

802.11n (HT40)

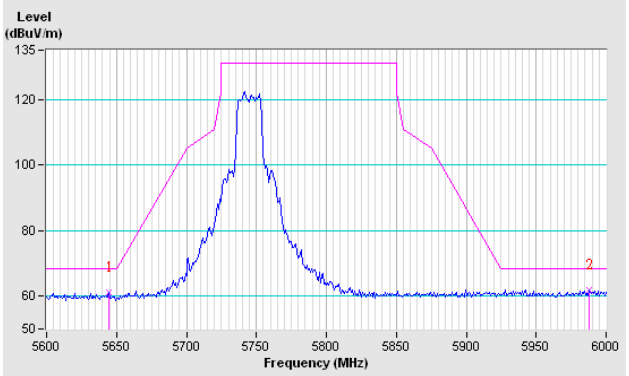
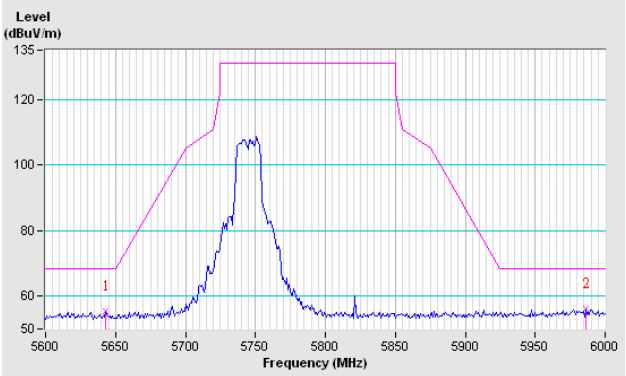
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

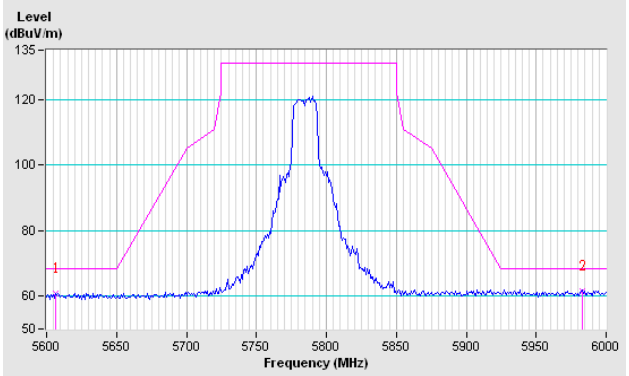
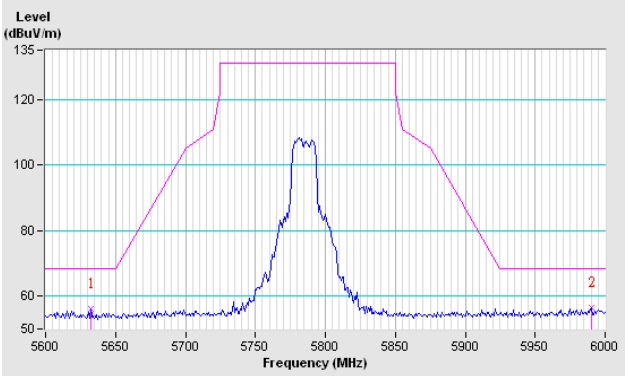
802.11ac (VHT80)

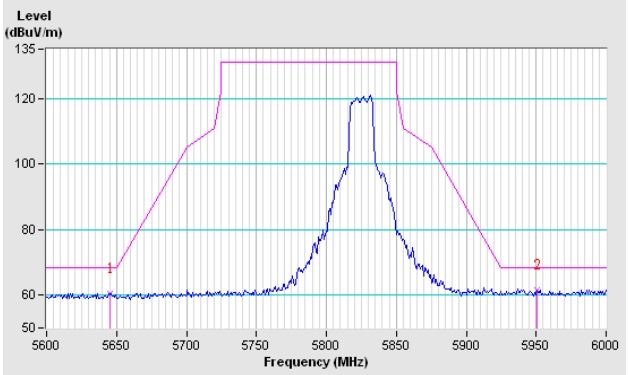
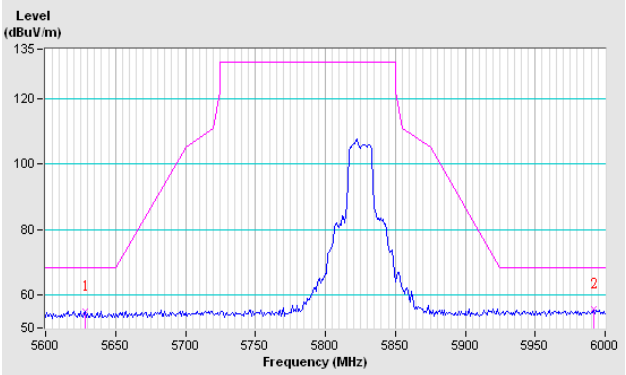
CH155	
Horizontal	Vertical
	

Test Mode I

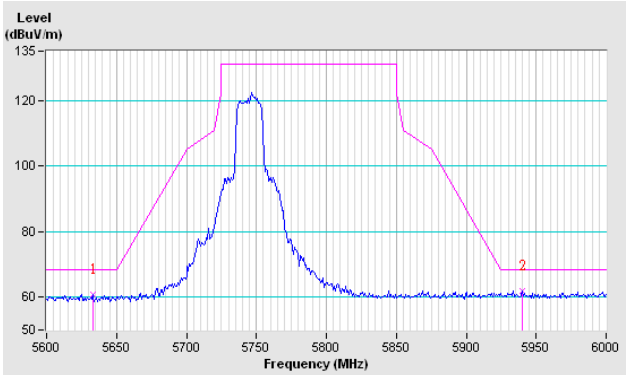
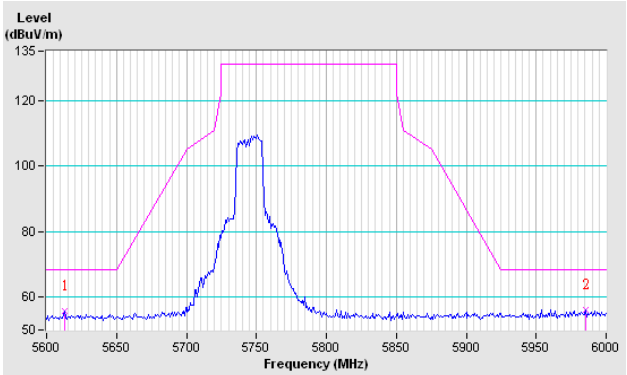
802.11a

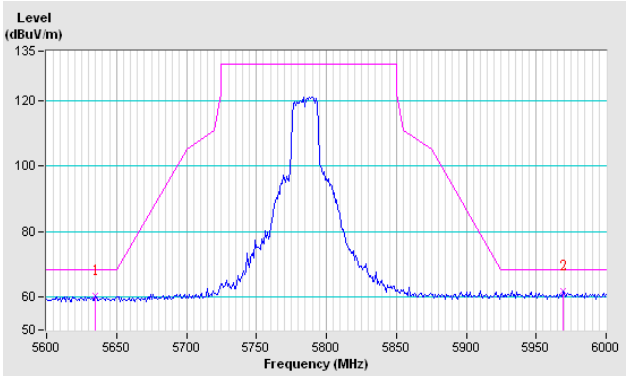
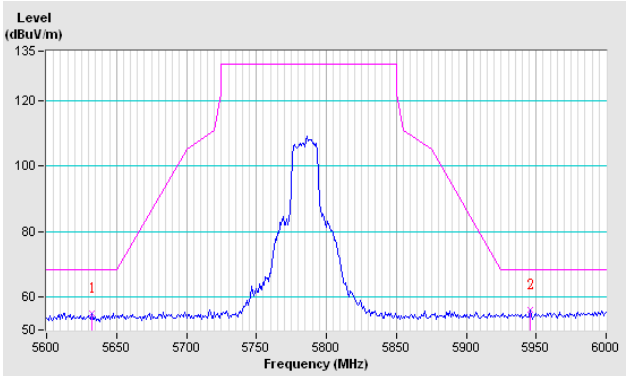
CH149	
Horizontal	Vertical
	

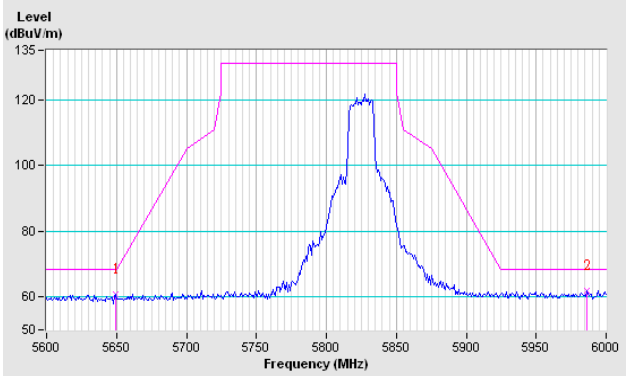
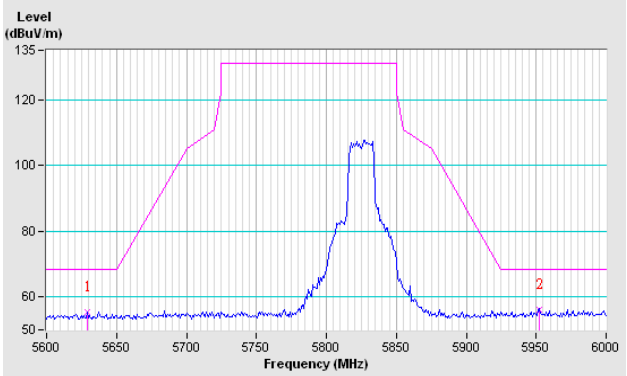
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

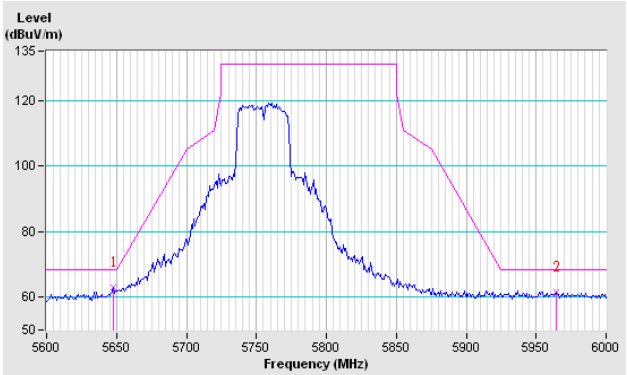
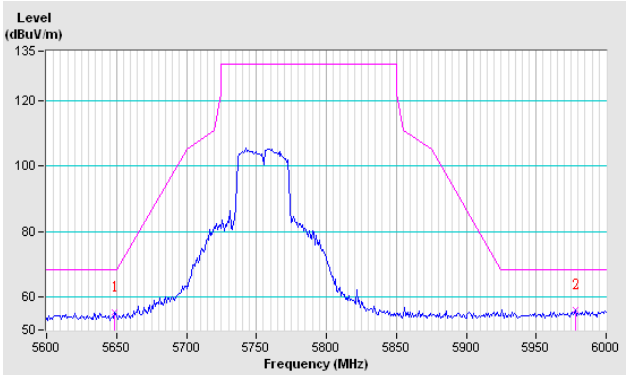
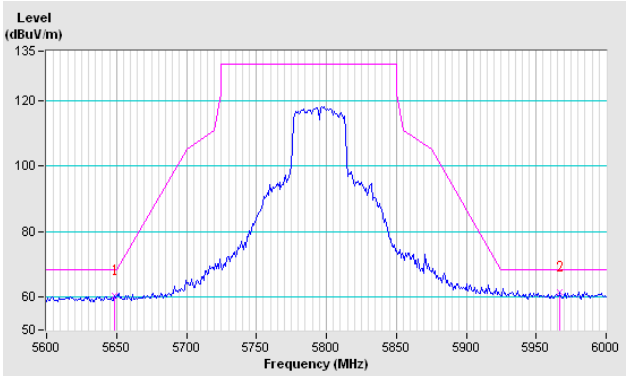
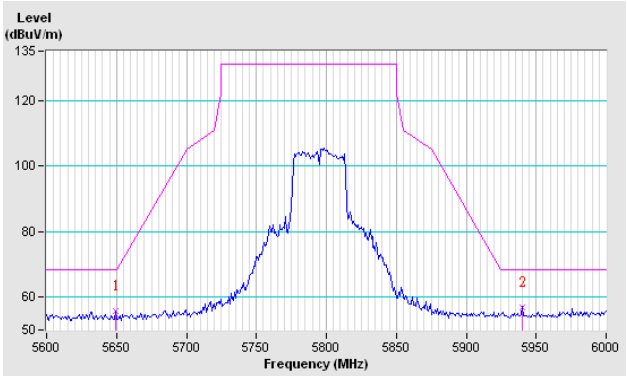
802.11n (HT20)

CH149	
Horizontal	Vertical
	

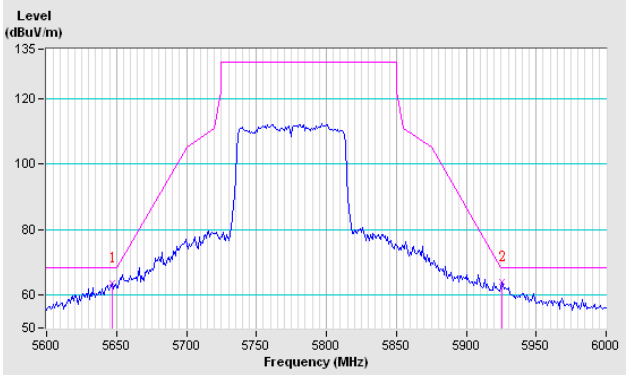
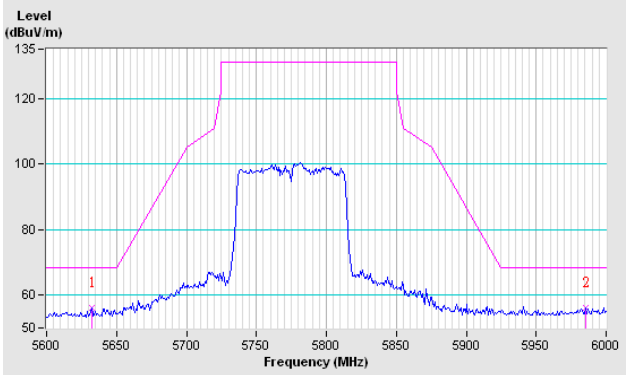
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

802.11n (HT40)

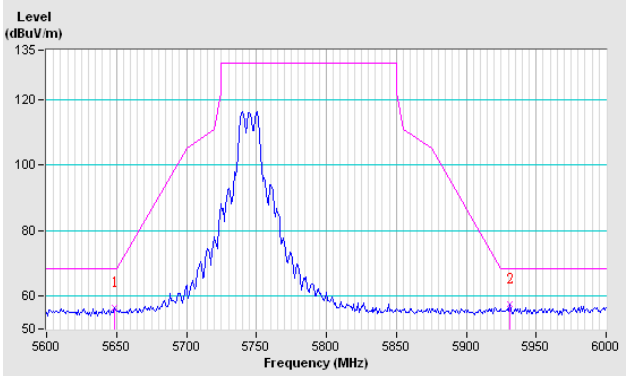
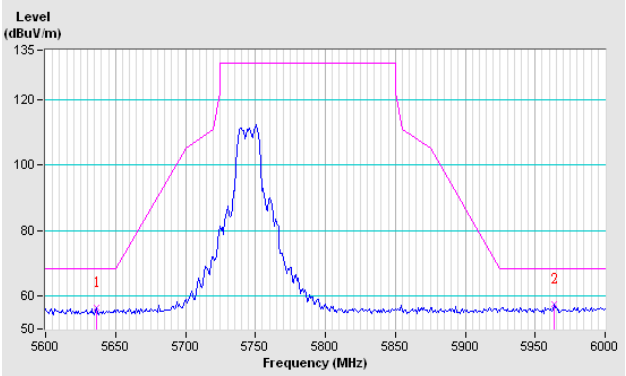
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

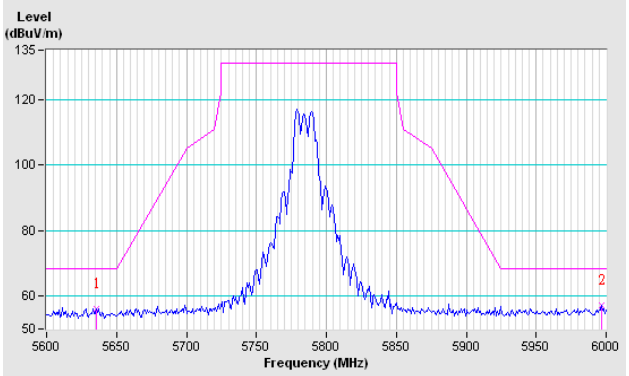
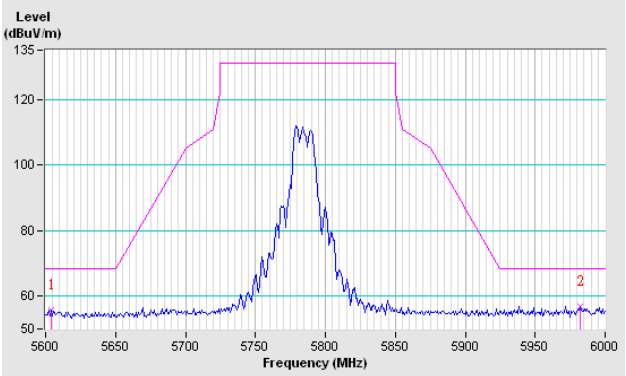
802.11ac (VHT80)

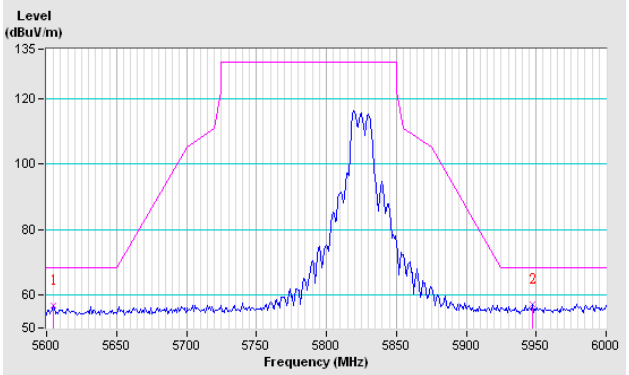
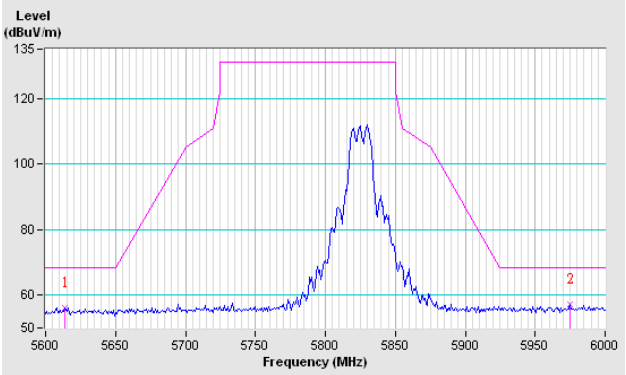
CH155	
Horizontal	Vertical
	

Test Mode K

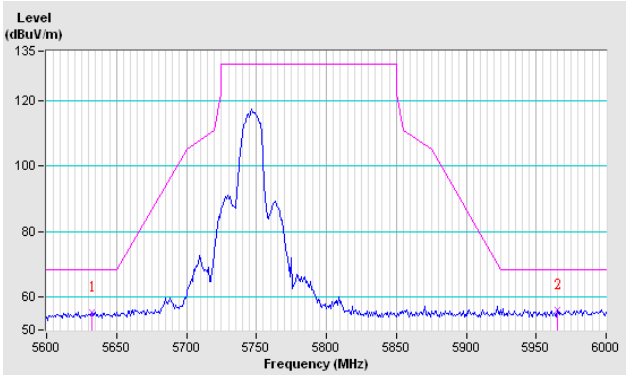
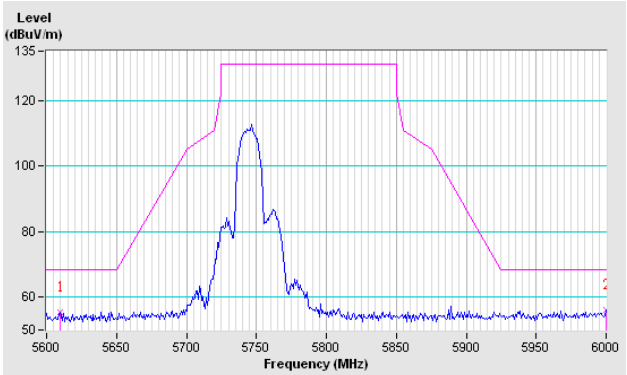
802.11a

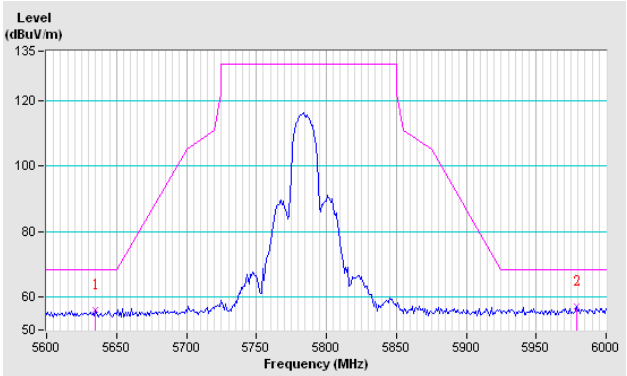
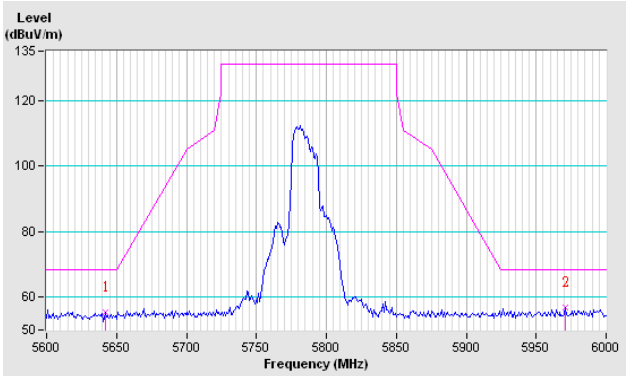
CH149	
Horizontal	Vertical
	

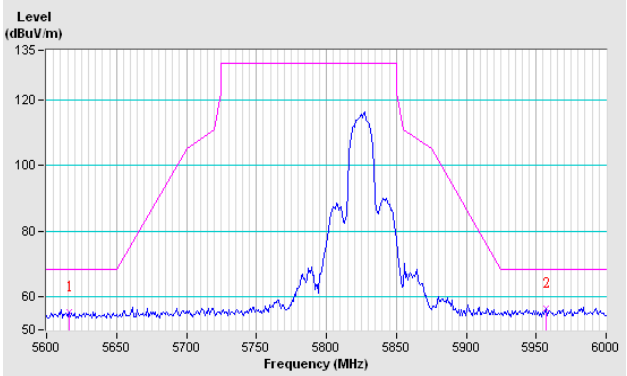
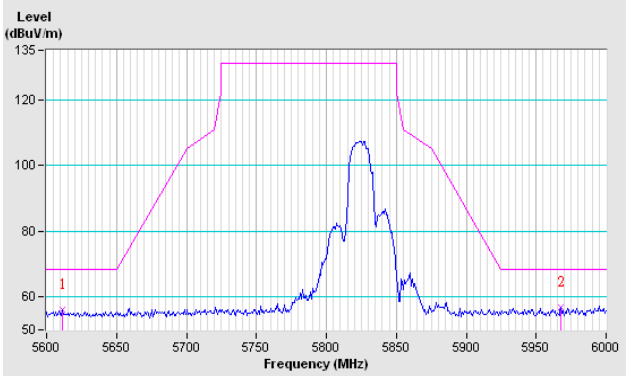
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

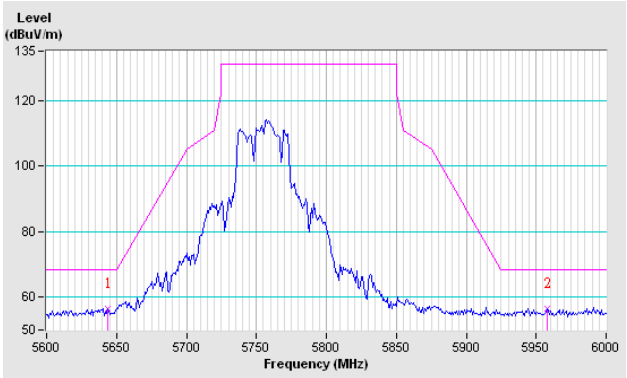
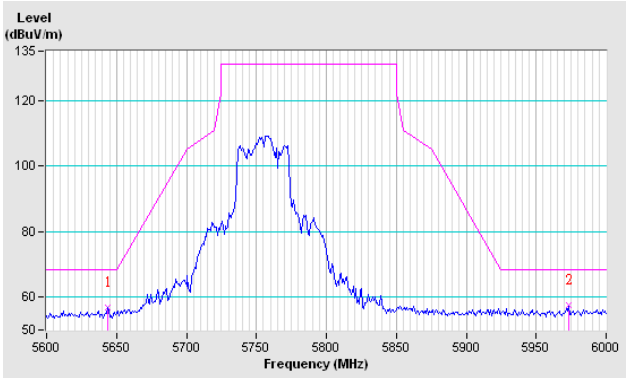
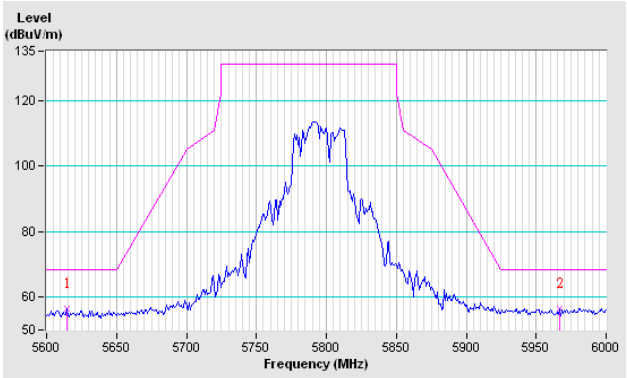
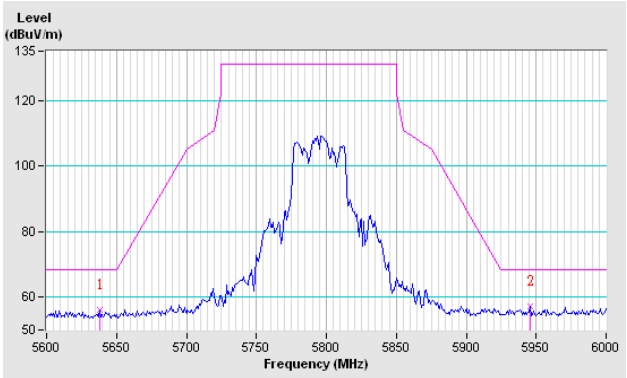
802.11n (HT20)

CH149	
Horizontal	Vertical
	

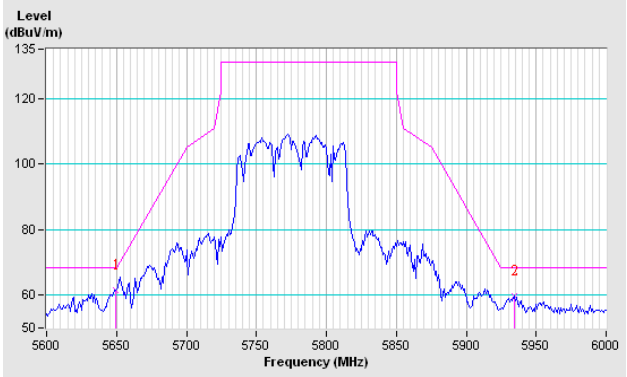
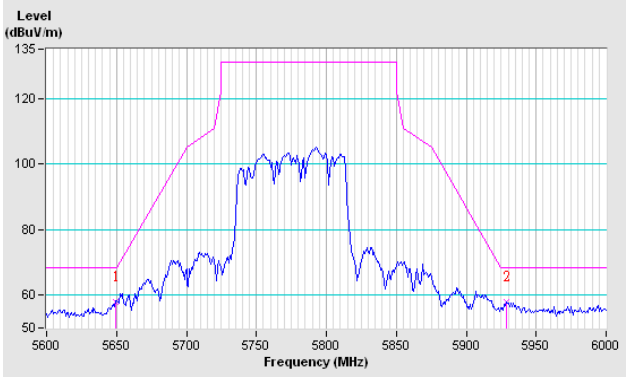
CH157	
Horizontal	Vertical
	

CH165	
Horizontal	Vertical
	

802.11n (HT40)

CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

802.11ac (VHT80)

CH155	
Horizontal	Vertical
	

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 FCC recognized accredited test firms and 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
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.

--- END ---