

Partial FCC Test Report

Report No.: RF180102C25

Test Model: QCNFA324

Received Date: Jan. 02, 2018

Test Date: Feb. 11, 2018 ~ Feb. 12, 2018

Issued Date: Feb. 22, 2018

Applicant: Qualcomm Atheros Inc.

Address: 1700 Technology Drive, San Jose, CA 95110

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
(R.O.C)

Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan
Hsien 333, Taiwan, R.O.C.

FCC Registration /
Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF180102C25	Original Release	Feb. 22, 2018

1 Certificate of Conformity

Product: 2X2 802.11A/B/G/N/AC WiFi + Bluetooth Module

Brand: Qualcomm Atheros

Test Model: QCNFA324

Sample Status: Identical Prototype

Applicant: Qualcomm Atheros Inc.

Test Date: Feb. 11, 2018 ~ Feb. 12, 2018

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
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 : Evonne Liu, **Date:** Feb. 22, 2018
Evonne Liu / Specialist

Approved by : Dylan Chiou, **Date:** Feb. 22, 2018
Dylan Chiou / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -6.86 dB at 2483.52 MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2X2 802.11A/B/G/N/AC WiFi + Bluetooth Module
Brand	Qualcomm Atheros
Test Model	QCNFA324
Status of EUT	Identical Prototype
Power Supply Rating	19.5 Vdc (Adapter)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7
Operating Frequency	2412 ~ 2462 MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
Antenna Type	Refer to Note as below
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. The EUT was installed in Portable Computer (Brand: DELL, Model: P73F).
2. The antenna information is listed as below.

EUT Config.	Ant. Type	Manufacturer	Parts Number	Type		Antenna Gain			
						WLAN 2.4 GHz	WLAN 5.15~5.35 GHz	WLAN 5.47~5.725 GHz	WLAN 5.725~5.875 GHz
1	SLOT	TE Connectivity	Main Ant.: 2195588-1 Aux Ant.: 2195588-1	NB mode	Main	2.43	-0.12	-0.19	-4.74
					Aux.	2.82	-0.37	0.16	-3.95
				Tablet mode	Main	-2.29	0.68	-1.10	0.32
					Aux.	-0.38	1.21	0.88	-2.03
2	SLOT	Hong-Bo Co., Ltd.	Main Ant.: 260-24200 Aux Ant.: 260-24200	NB mode	Main	0.66	0.66	-0.67	-3.62
					Aux.	-0.58	-0.59	-2.32	-3.61
				Tablet mode	Main	2.83	-0.52	-2.69	-2.24
					Aux.	2.40	1.18	-2.65	-3.39

*For the actual test configuration, therefore chosen NB mode for the final test and presented in the test report.

3. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	DELL	DA130PM170	I/P: 100-240 Vac, 50-60 Hz, 1.8 A O/P: 5 Vdc, 1 A or 20 Vdc, 6.5 A (1.8M/0core)
Battery	DELL	8NOT7	13.275Vdc, 6254mAh

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

7 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To		Description
	RE $\geq$ 1G	RE<1G	
-	√	√	--

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz **RE<1G**: Radiated Emission below 1 GHz

Radiated Emission Test (Above 1 GHz):

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0

Radiated Emission Test (Below 1 GHz):

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0

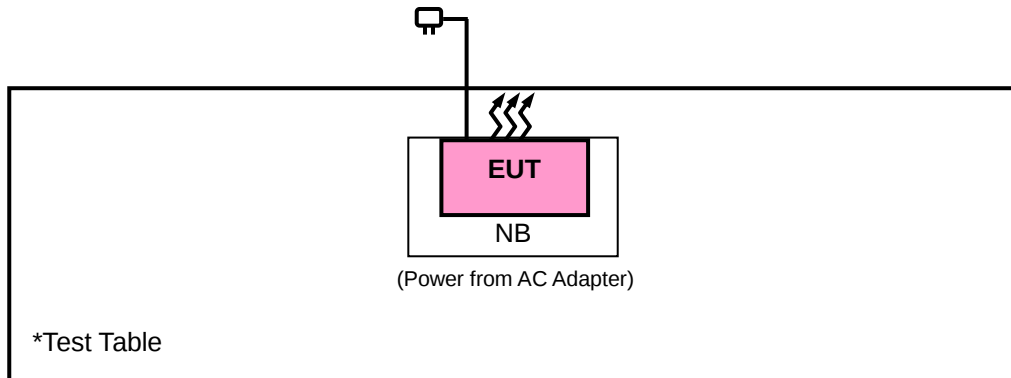
Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Jisyong Wang
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Jisyong Wang

3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

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

FCC Part 15, Subpart C (15.247)

558074 D01 DTS Meas Guidance v04

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, 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 20 dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Feb. 17, 2017	Feb. 16, 2018
Spectrum Analyzer Agilent	N9010A	MY52220314	Nov. 24, 2017	Nov. 23, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2017	Dec. 11, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 17, 2017	Apr. 16, 2018
Loop Antenna	HLA 6121	45745	May 19, 2017	May 18, 2018
Preamplifier EMCI	EMC001340	980201	Dec. 01, 2017	Nov. 30, 2018
Bluetooth Tester	CBT	100946	Jul. 29, 2016	Jul. 28, 2018
Preamplifier EMCI	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 184045	980116	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 330H	980112	Oct. 13, 2017	Oct. 12, 2018
Power Meter Anritsu	ML2495A	1232002	Dec. 07, 2017	Dec. 06, 2018
Power Sensor Anritsu	MA2411B	1207325	Dec. 07, 2017	Dec. 06, 2018
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 20, 2017	Oct. 19, 2018
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 20, 2017	Oct. 19, 2018
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	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 Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The IC Site Registration No. is IC7450F-10.

4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) 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 detected 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:

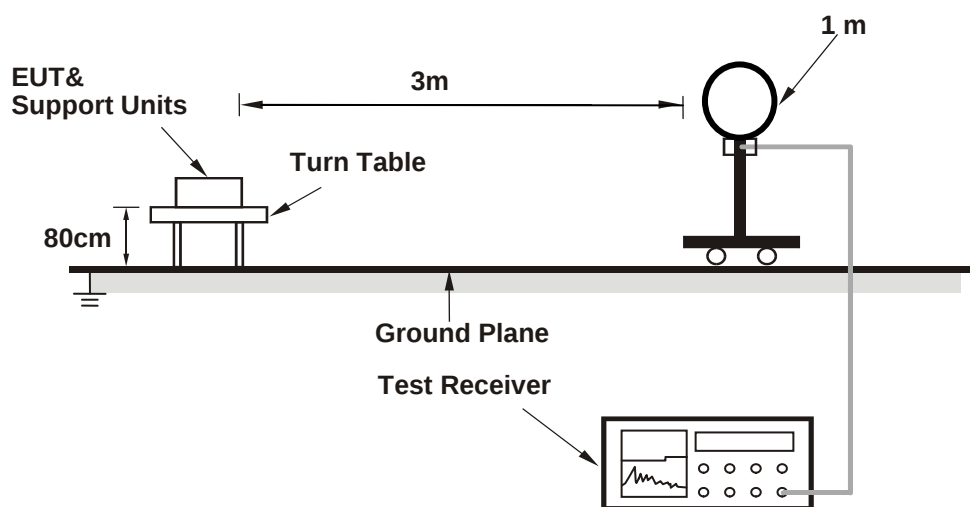
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz & 360 KHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1/T for Average (Duty cycle < 98 %) detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

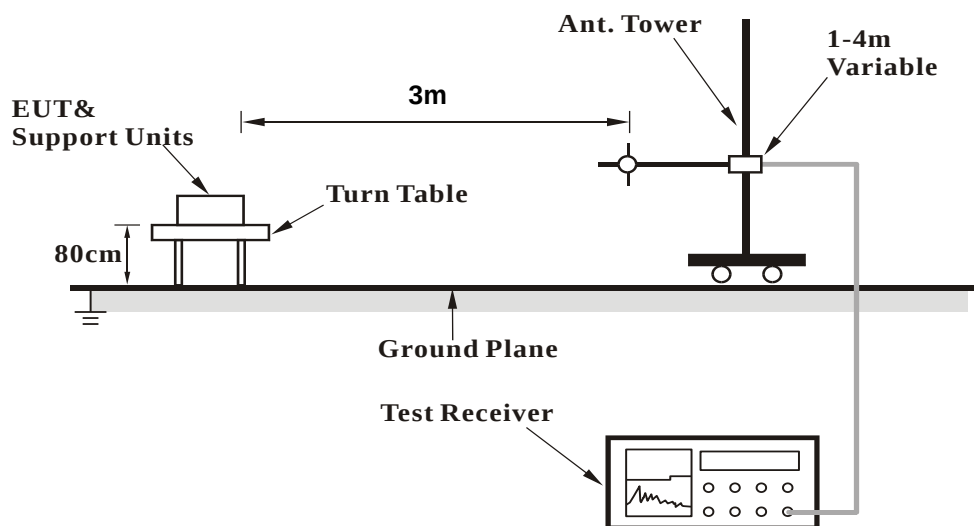
No deviation.

4.1.5 Test Set Up

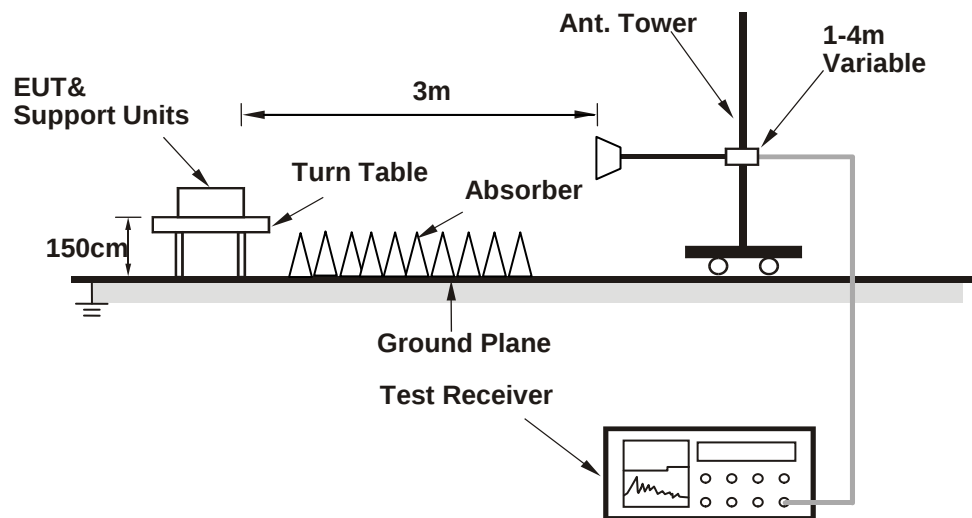
<Radiated emission below 30 MHz>



<Frequency Range below 1 GHz>



<Frequency Range above 1 GHz>



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

4.1.6 EUT Operating Conditions

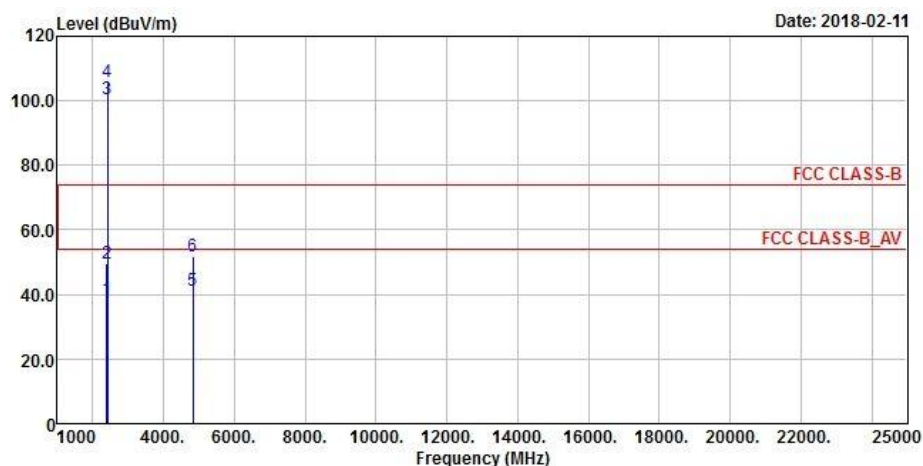
- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

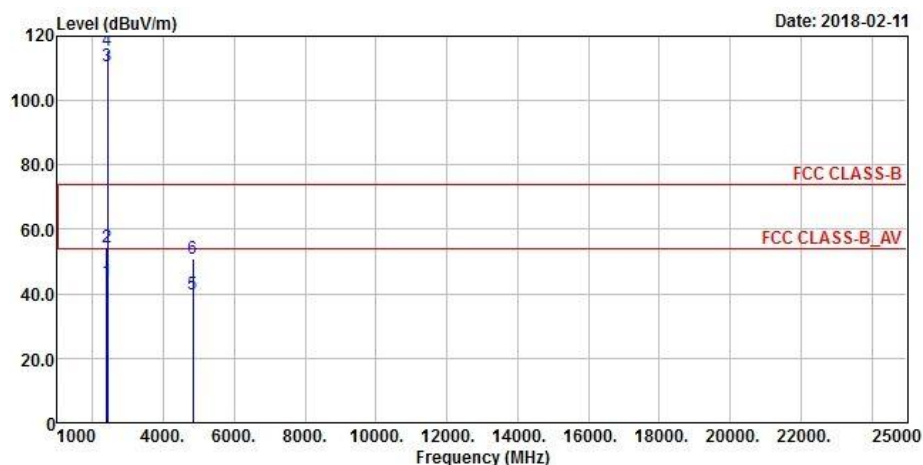
Above 1 GHz Data :
802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



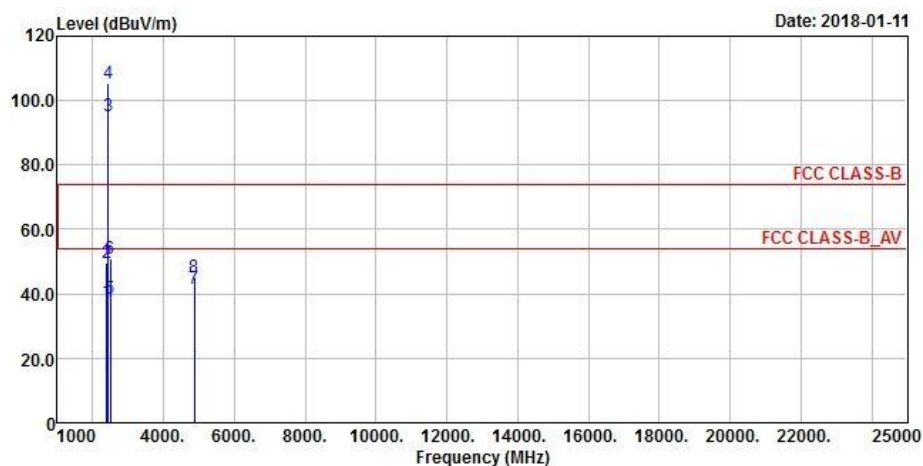
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2388.26	38.7	44.68	54	-15.3	27.16	4.36	37.5	296	56	Average
2388.26	49.66	55.64	74	-24.34	27.16	4.36	37.5	296	56	Peak
2412	100.6	106.51			27.23	4.38	37.52	296	56	Average
2412	105.96	111.87			27.23	4.38	37.52	296	56	Peak
4824	41.34	56.25	54	-12.66	31.17	6.81	52.89	203	111	Average
4824	51.61	66.52	74	-22.39	31.17	6.81	52.89	203	111	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2386.72	44.03	50.01	54	-9.97	27.16	4.36	37.5	227	328	Average
2386.72	54.53	60.51	74	-19.47	27.16	4.36	37.5	227	328	Peak
2412	110.53	116.44			27.23	4.38	37.52	227	328	Average
2412	115.59	121.5			27.23	4.38	37.52	227	328	Peak
4824	39.95	55.23	54	-14.05	30.99	6.81	53.08	111	123	Average
4824	50.7	65.98	74	-23.3	30.99	6.81	53.08	111	123	Peak

Remarks:

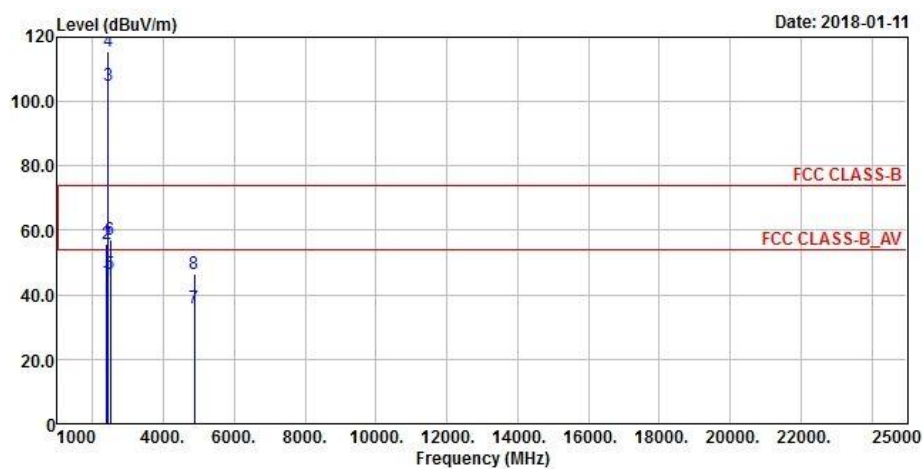
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyoung Wang

Horizontal



Vertical



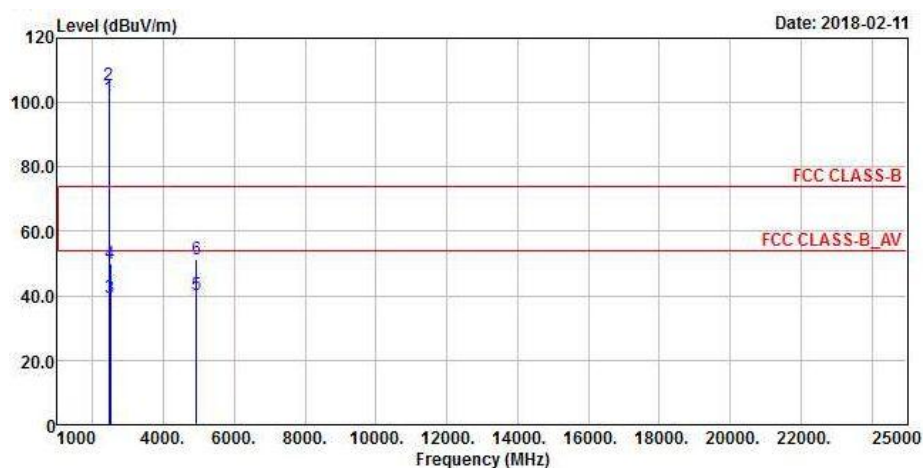
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	37.47	43.47	54	-16.53	27.16	4.36	37.52	265	64	Average
2389.94	49.51	55.51	74	-24.49	27.16	4.36	37.52	265	64	Peak
2437	95.3	100.98			27.38	4.4	37.46	265	64	Average
2437	105.31	110.99			27.38	4.4	37.46	265	64	Peak
2484.64	38.69	44.05	54	-15.31	27.53	4.43	37.32	265	64	Average
2484.64	50.75	56.11	74	-23.25	27.53	4.43	37.32	265	64	Peak
4874	41.53	56.28	54	-12.47	31.25	6.86	52.86	142	71	Average
4874	44.97	59.72	74	-29.03	31.25	6.86	52.86	142	71	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.8	44.18	50.18	54	-9.82	27.16	4.36	37.52	228	178	Average
2389.8	56	62	74	-18	27.16	4.36	37.52	228	178	Peak
2437	105.03	110.71			27.38	4.4	37.46	228	178	Average
2437	115.46	121.14			27.38	4.4	37.46	228	178	Peak
2484.6	46.38	51.74	54	-7.62	27.53	4.43	37.32	228	178	Average
2484.6	56.93	62.29	74	-17.07	27.53	4.43	37.32	228	178	Peak
4874	35.97	51.1	54	-18.03	31.06	6.86	53.05	115	234	Average
4874	46.53	61.66	74	-27.47	31.06	6.86	53.05	115	234	Peak

Remarks:

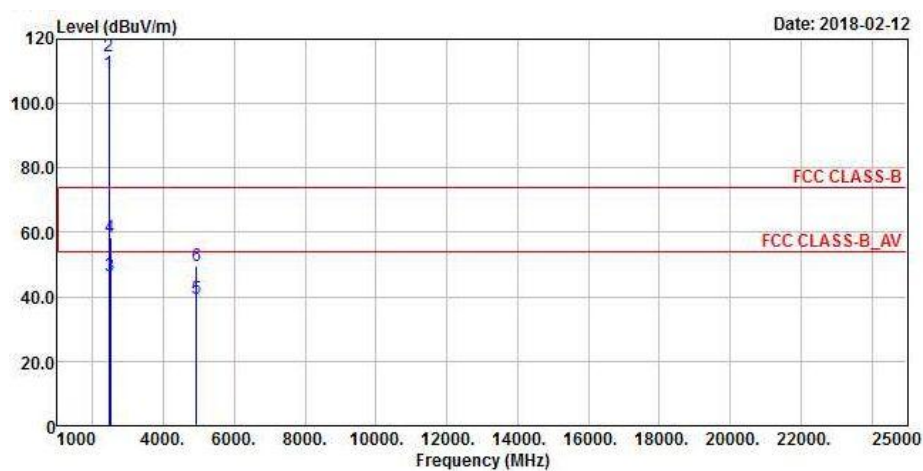
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	101.25	106.77			27.46	4.41	37.39	285	49	Average
2462	105.54	111.06			27.46	4.41	37.39	285	49	Peak
2487.76	39.25	44.61	54	-14.75	27.53	4.43	37.32	285	49	Average
2487.76	50.12	55.4	74	-23.88	27.61	4.43	37.32	285	49	Peak
4924	40.35	55.01	54	-13.65	31.34	6.89	52.89	201	236	Average
4924	51.19	65.85	74	-22.81	31.34	6.89	52.89	201	236	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	109.25	114.77			27.46	4.41	37.39	256	357	Average
2462	114.63	120.15			27.46	4.41	37.39	256	357	Peak
2487	46.52	51.88	54	-7.48	27.53	4.43	37.32	256	357	Average
2487	58.52	63.88	74	-15.48	27.53	4.43	37.32	256	357	Peak
4924	39.22	54.24	54	-14.78	31.12	6.89	53.03	152	236	Average
4924	49.6	64.62	74	-24.4	31.12	6.89	53.03	152	236	Peak

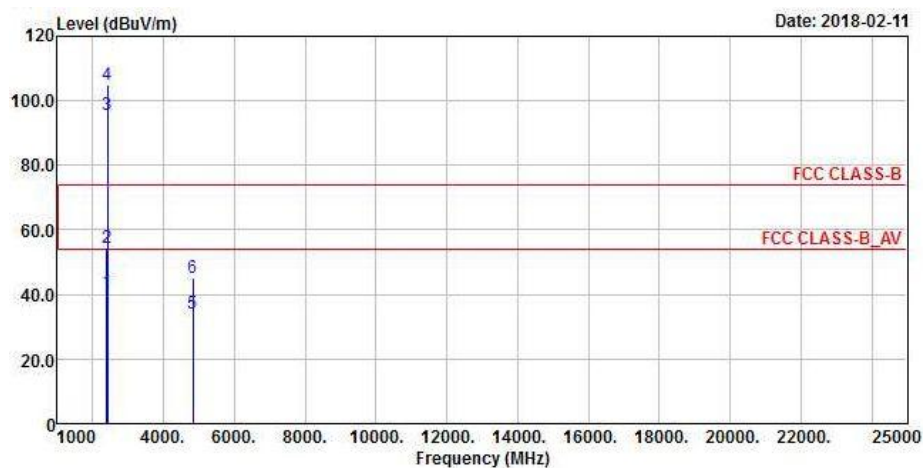
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

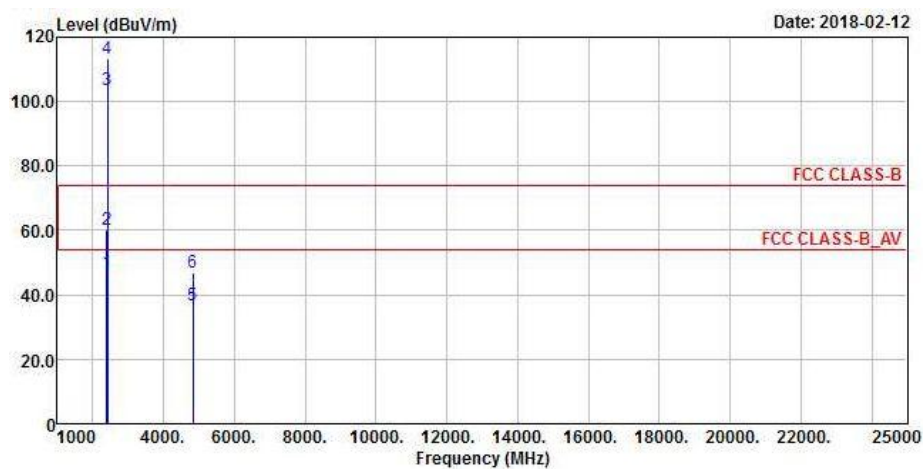
802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



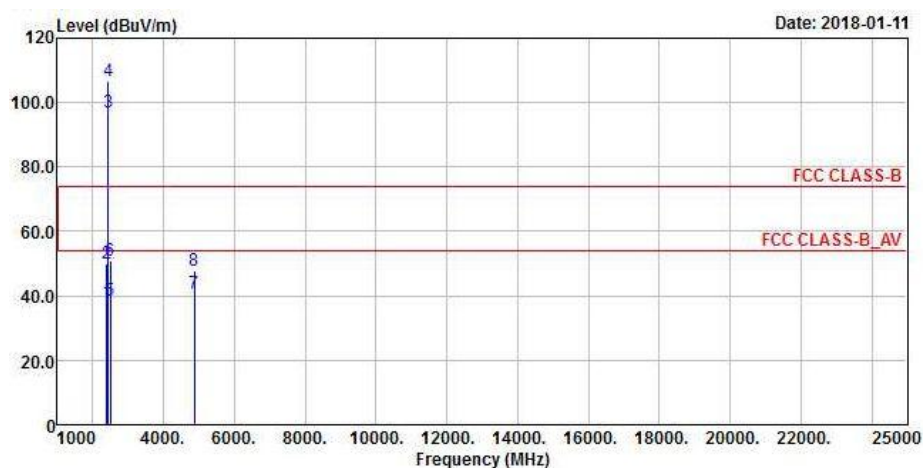
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.38	40.52	46.5	54	-13.48	27.16	4.36	37.5	264	58	Average
2389.38	54.58	60.56	74	-19.42	27.16	4.36	37.5	264	58	Peak
2412	95.65	101.56			27.23	4.38	37.52	264	58	Average
2412	104.85	110.76			27.23	4.38	37.52	264	58	Peak
4824	34.29	49.2	54	-19.71	31.17	6.81	52.89	201	256	Average
4824	45.06	59.97	74	-28.94	31.17	6.81	52.89	201	256	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	46.75	52.75	54	-7.25	27.16	4.36	37.52	232	352	Average
2389.94	60.36	66.36	74	-13.64	27.16	4.36	37.52	232	352	Peak
2412	103.58	109.49			27.23	4.38	37.52	232	352	Average
2412	113.54	119.45			27.23	4.38	37.52	232	352	Peak
4824	36.93	52.21	54	-17.07	30.99	6.81	53.08	102	256	Average
4824	46.95	62.23	74	-27.05	30.99	6.81	53.08	102	256	Peak

Remarks:

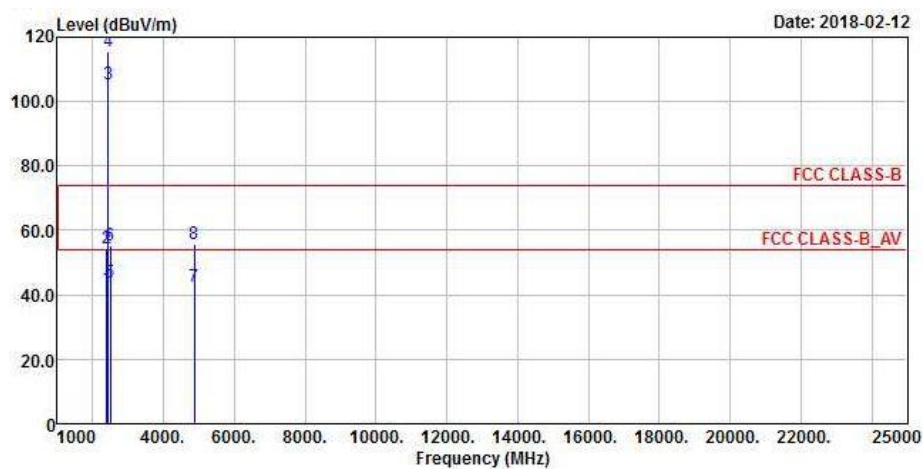
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



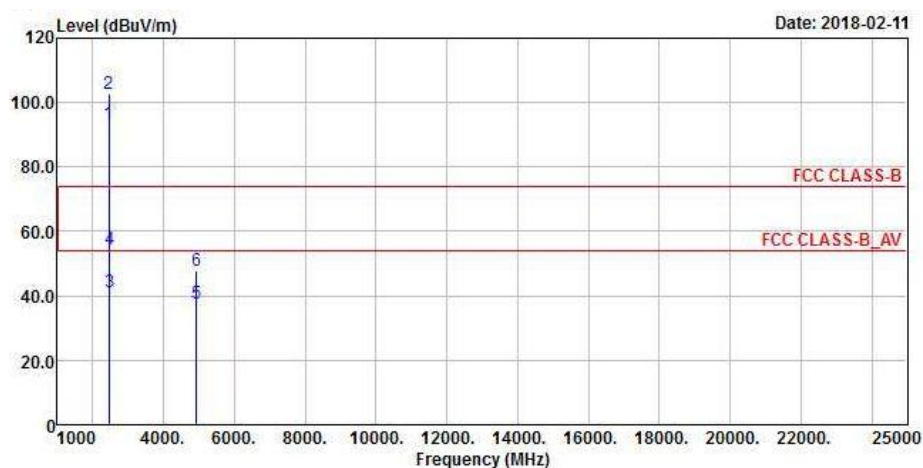
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.52	37.99	43.97	54	-16.01	27.16	4.36	37.5	265	66	Average
2389.52	50.22	56.2	74	-23.78	27.16	4.36	37.5	265	66	Peak
2437	96.82	102.5			27.38	4.4	37.46	265	66	Average
2437	106.82	112.5			27.38	4.4	37.46	265	66	Peak
2485	38.73	44.09	54	-15.27	27.53	4.43	37.32	265	66	Average
2485	51.1	56.46	74	-22.9	27.53	4.43	37.32	265	66	Peak
4874	40.52	55.27	54	-13.48	31.25	6.86	52.86	240	66	Average
4874	47.63	62.38	74	-26.37	31.25	6.86	52.86	240	66	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	42.11	48.11	54	-11.89	27.16	4.36	37.52	246	183	Average
2389.94	54.42	60.42	74	-19.58	27.16	4.36	37.52	246	183	Peak
2437	105.41	111.09			27.38	4.4	37.46	246	183	Average
2437	115.5	121.18			27.38	4.4	37.46	246	183	Peak
2484.32	43.88	49.24	54	-10.12	27.53	4.43	37.32	246	183	Average
2484.32	55.18	60.54	74	-18.82	27.53	4.43	37.32	246	183	Peak
4874	42.58	57.71	54	-11.42	31.06	6.86	53.05	135	231	Average
4874	55.69	70.82	74	-18.31	31.06	6.86	53.05	135	231	Peak

Remarks:

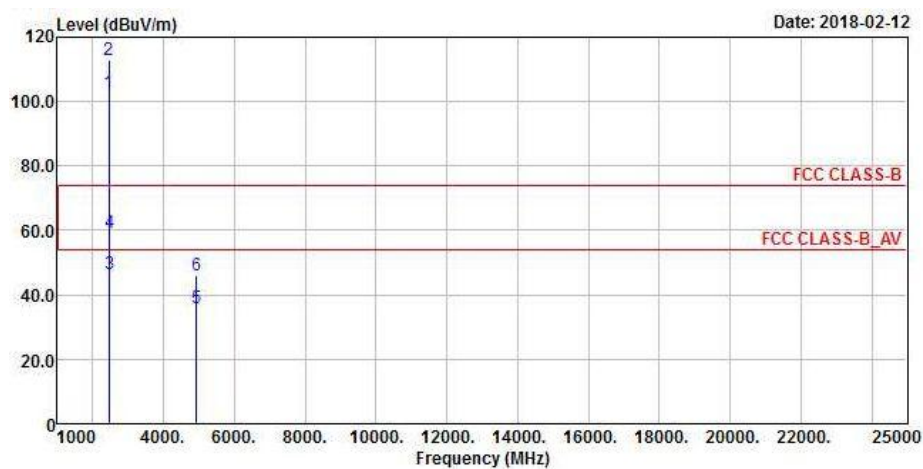
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	93.53	99.05			27.46	4.41	37.39	275	59	Average
2462	102.52	108.04			27.46	4.41	37.39	275	59	Peak
2483.52	41.25	46.61	54	-12.75	27.53	4.43	37.32	275	59	Average
2483.52	54.25	59.61	74	-19.75	27.53	4.43	37.32	275	59	Peak
4924	37.48	52.14	54	-16.52	31.34	6.89	52.89	203	211	Average
4924	47.9	62.56	74	-26.1	31.34	6.89	52.89	203	211	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	102.87	108.39			27.46	4.41	37.39	223	340	Average
2462	112.98	118.5			27.46	4.41	37.39	223	340	Peak
2483.52	46.47	51.83	54	-7.53	27.53	4.43	37.32	223	340	Average
2483.52	59.52	64.88	74	-14.48	27.53	4.43	37.32	223	340	Peak
4924	35.82	50.84	54	-18.18	31.12	6.89	53.03	145	123	Average
4924	45.87	60.89	74	-28.13	31.12	6.89	53.03	145	123	Peak

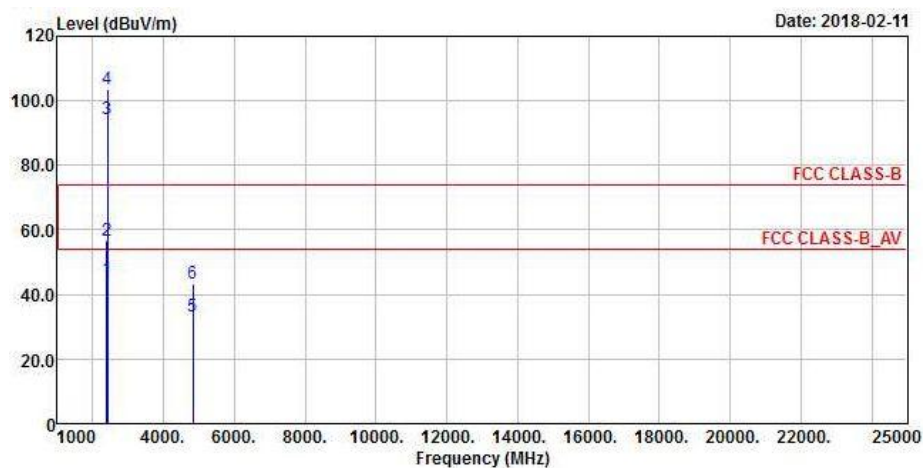
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

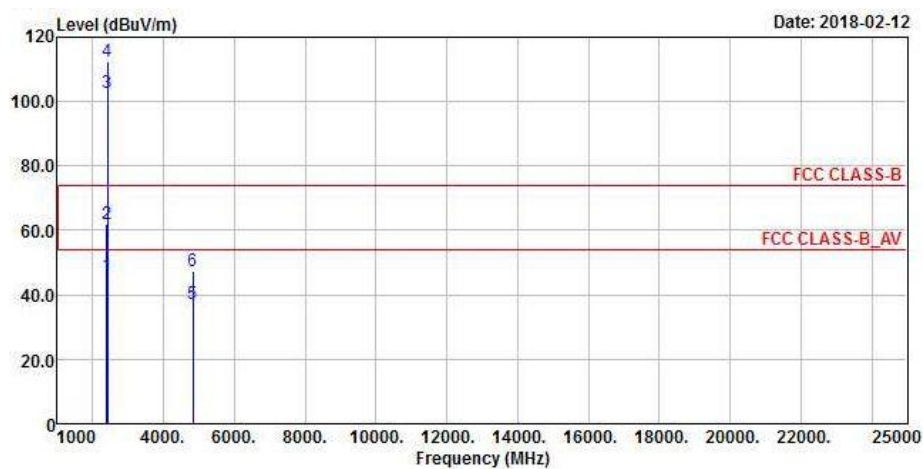
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



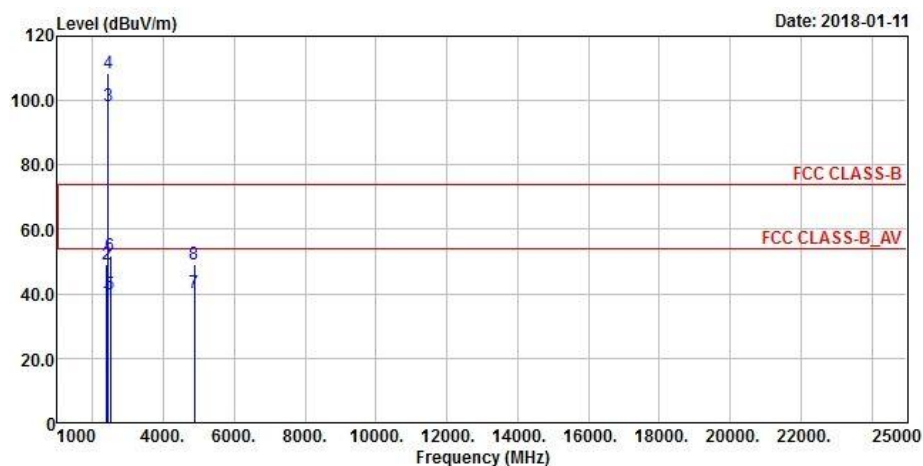
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	44.56	50.56	54	-9.44	27.16	4.36	37.52	308	56	Average
2389.94	56.85	62.83	74	-17.15	27.16	4.36	37.5	308	56	Peak
2412	94.52	100.43			27.23	4.38	37.52	308	56	Average
2412	103.56	109.47			27.23	4.38	37.52	308	56	Peak
4824	33.35	48.26	54	-20.65	31.17	6.81	52.89	203	256	Average
4824	43.32	58.23	74	-30.68	31.17	6.81	52.89	203	256	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	46.25	52.25	54	-7.75	27.16	4.36	37.52	232	349	Average
2389.94	61.85	67.85	74	-12.15	27.16	4.36	37.52	232	349	Peak
2412	102.58	108.49			27.23	4.38	37.52	232	349	Average
2412	112.65	118.56			27.23	4.38	37.52	232	349	Peak
4824	37.08	52.36	54	-16.92	30.99	6.81	53.08	185	165	Average
4824	47.41	62.69	74	-26.59	30.99	6.81	53.08	185	165	Peak

Remarks:

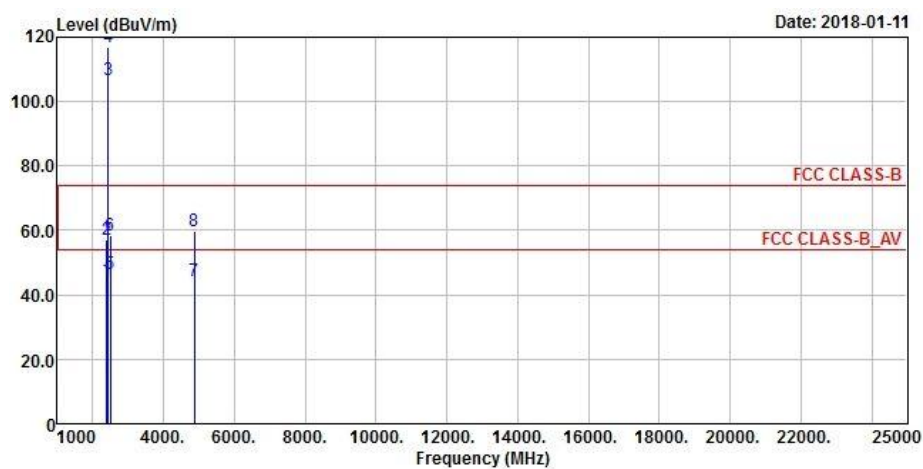
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



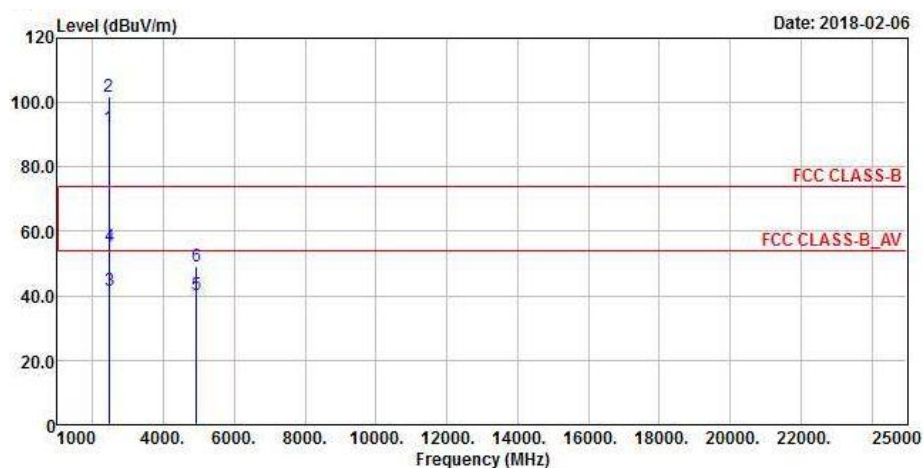
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	37.79	43.79	54	-16.21	27.16	4.36	37.52	261	59	Average
2389.94	49.21	55.21	74	-24.79	27.16	4.36	37.52	261	59	Peak
2437	98.3	103.98			27.38	4.4	37.46	261	59	Average
2437	108.63	114.31			27.38	4.4	37.46	261	59	Peak
2485.28	39.72	45.08	54	-14.28	27.53	4.43	37.32	261	59	Average
2485.28	51.77	57.13	74	-22.23	27.53	4.43	37.32	261	59	Peak
4874	40.25	55	54	-13.75	31.25	6.86	52.86	239	65	Average
4874	49.25	64	74	-24.75	31.25	6.86	52.86	239	65	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.8	44.84	50.84	54	-9.16	27.16	4.36	37.52	245	180	Average
2389.8	57.25	63.25	74	-16.75	27.16	4.36	37.52	245	180	Peak
2437	106.8	112.48			27.38	4.4	37.46	245	180	Average
2437	116.96	122.64			27.38	4.4	37.46	245	180	Peak
2484.52	46.38	51.74	54	-7.62	27.53	4.43	37.32	245	180	Average
2484.52	58.26	63.62	74	-15.74	27.53	4.43	37.32	245	180	Peak
4874	44.25	59.38	54	-9.75	31.06	6.86	53.05	135	226	Average
4874	59.65	74.78	74	-14.35	31.06	6.86	53.05	135	226	Peak

Remarks:

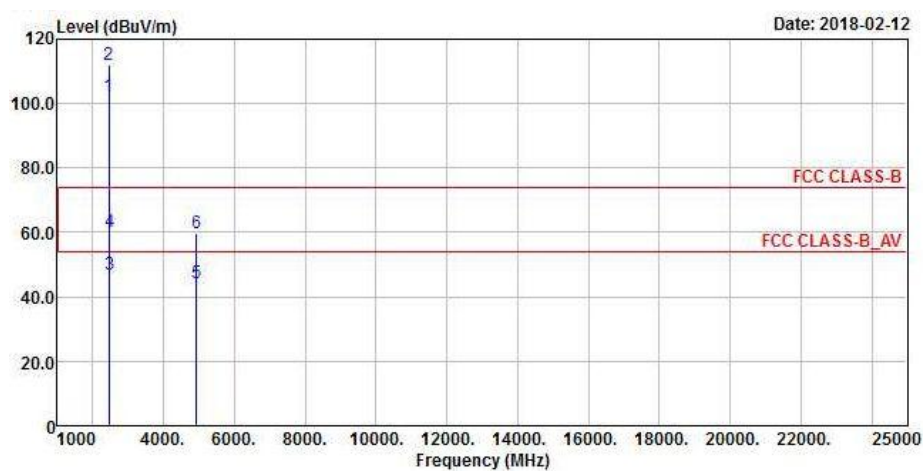
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	92.25	97.77			27.46	4.41	37.39	286	54	Average
2462	102.02	107.54			27.46	4.41	37.39	286	54	Peak
2483.76	41.56	46.92	54	-12.44	27.53	4.43	37.32	286	54	Average
2483.76	55.25	60.61	74	-18.75	27.53	4.43	37.32	286	54	Peak
4924	40.25	54.91	54	-13.75	31.34	6.89	52.89	239	65	Average
4924	49.25	63.91	74	-24.75	31.34	6.89	52.89	239	65	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	102.25	107.77			27.46	4.41	37.39	234	348	Average
2462	112.23	117.75			27.46	4.41	37.39	234	348	Peak
2483.52	47.14	52.5	54	-6.86	27.53	4.43	37.32	234	348	Average
2483.52	60.25	65.61	74	-13.75	27.53	4.43	37.32	234	348	Peak
4924	44.25	59.27	54	-9.75	31.12	6.89	53.03	135	226	Average
4924	59.65	74.67	74	-14.35	31.12	6.89	53.03	135	226	Peak

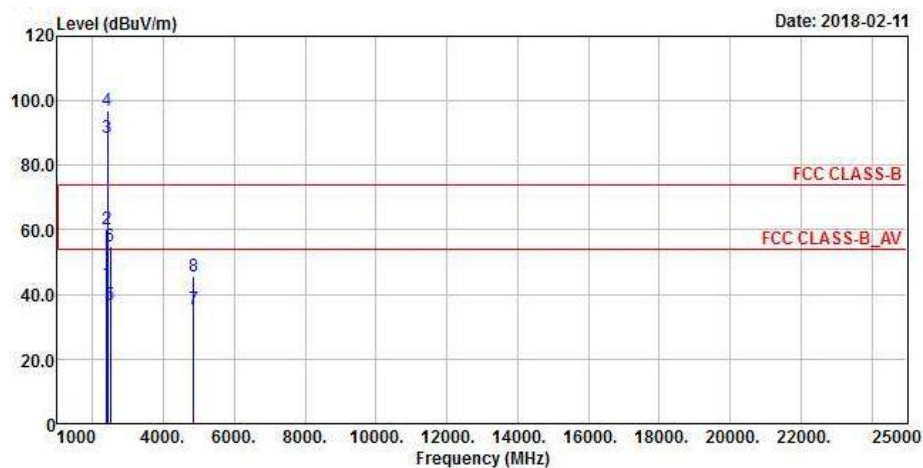
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

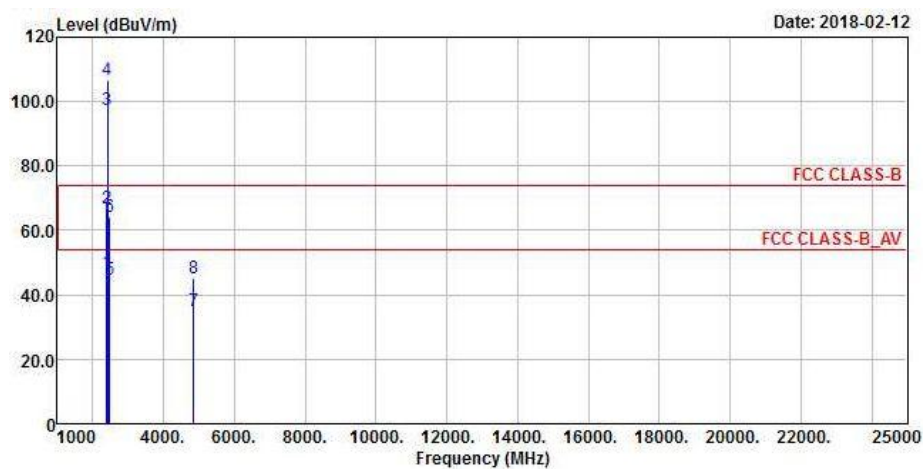
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



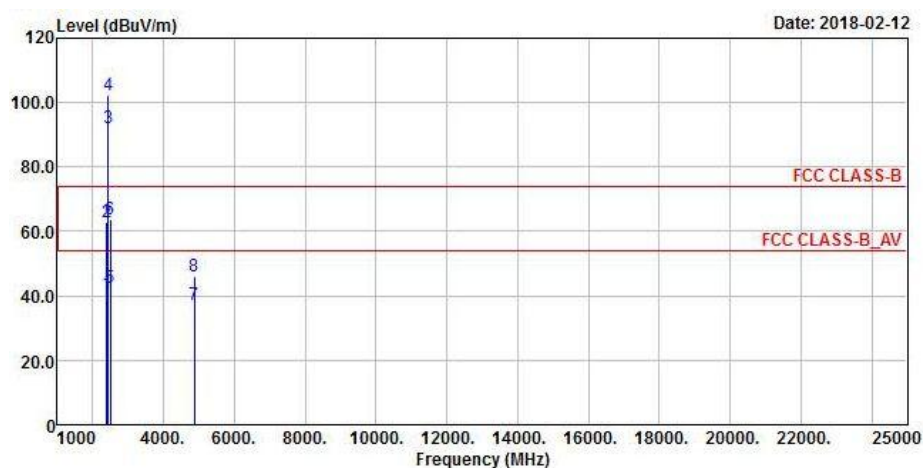
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.94	43.52	49.52	54	-10.48	27.16	4.36	37.52	272	57	Average
2389.94	60.25	66.33	74	-13.75	27.08	4.34	37.5	272	57	Peak
2422	88.56	94.32			27.31	4.39	37.46	272	57	Average
2422	96.85	102.61			27.31	4.39	37.46	272	57	Peak
2488.36	36.89	42.25	54	-17.11	27.53	4.43	37.32	272	57	Average
2488.36	54.96	60.24	74	-19.04	27.61	4.43	37.32	272	57	Peak
4844	35.4	50.25	54	-18.6	31.2	6.83	52.88	125	123	Average
4844	45.53	60.38	74	-28.47	31.2	6.83	52.88	125	123	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2385.46	46.89	52.96	54	-7.11	27.08	4.35	37.5	236	352	Average
2385.46	66.69	72.67	74	-7.31	27.16	4.36	37.5	236	352	Peak
2422	97.58	103.34			27.31	4.39	37.46	236	352	Average
2422	106.56	112.32			27.31	4.39	37.46	236	352	Peak
2483.56	44.58	49.94	54	-9.42	27.53	4.43	37.32	236	352	Average
2483.56	64.23	69.51	74	-9.77	27.61	4.43	37.32	236	352	Peak
4844	34.9	50.12	54	-19.1	31.01	6.83	53.06	102	256	Average
4844	45.07	60.29	74	-28.93	31.01	6.83	53.06	102	256	Peak

Remarks:

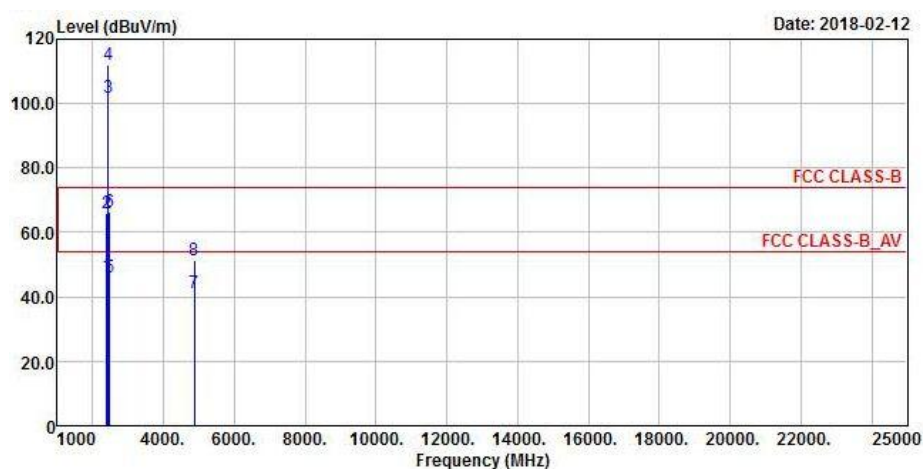
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 2422 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyoung Wang

Horizontal



Vertical



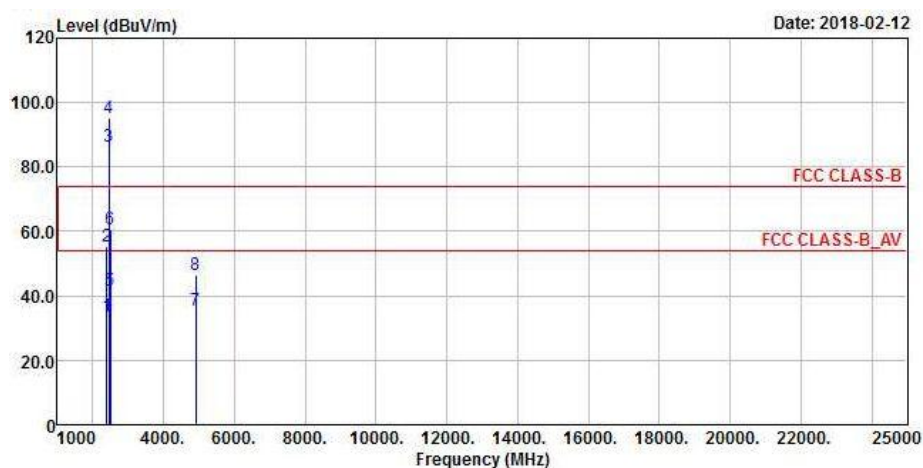
Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.66	40.78	46.76	54	-13.22	27.16	4.36	37.5	234	59	Average
2389.66	62.7	68.68	74	-11.3	27.16	4.36	37.5	234	59	Peak
2437	92.03	97.71			27.38	4.4	37.46	234	59	Average
2437	102.49	108.17			27.38	4.4	37.46	234	59	Peak
2485.12	42.45	47.81	54	-11.55	27.53	4.43	37.32	234	59	Average
2485.12	63.59	68.95	74	-10.41	27.53	4.43	37.32	234	59	Peak
4874	37.26	52.01	54	-16.74	31.25	6.86	52.86	235	63	Average
4874	46.25	61	74	-27.75	31.25	6.86	52.86	235	63	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.8	46.45	52.45	54	-7.55	27.16	4.36	37.52	218	176	Average
2389.8	66.12	72.12	74	-7.88	27.16	4.36	37.52	218	176	Peak
2437	102.01	107.69			27.38	4.4	37.46	218	176	Average
2437	112.01	117.69			27.38	4.4	37.46	218	176	Peak
2483.56	46.16	51.52	54	-7.84	27.53	4.43	37.32	218	176	Average
2483.56	66.49	71.85	74	-7.51	27.53	4.43	37.32	218	176	Peak
4874	41.25	56.38	54	-12.75	31.06	6.86	53.05	144	223	Average
4874	51.36	66.49	74	-22.64	31.06	6.86	53.05	144	223	Peak

Remarks:

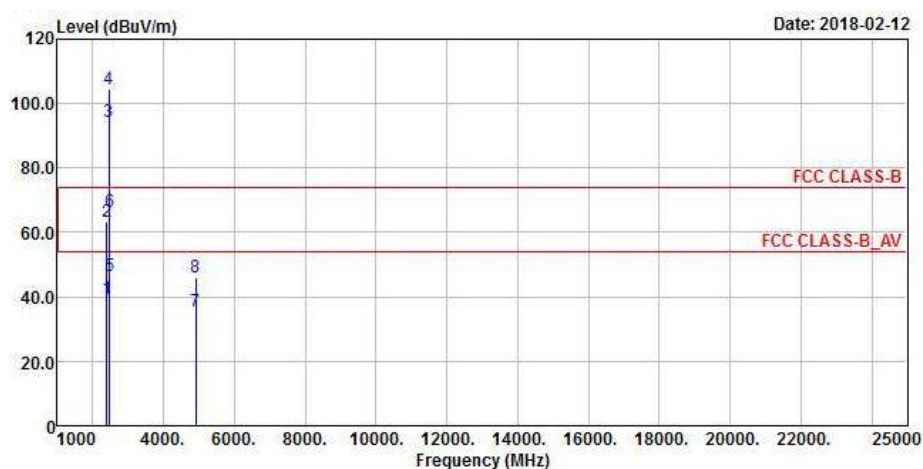
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

Horizontal



Vertical



Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.8	33.52	39.52	54	-20.48	27.16	4.36	37.52	285	55	Average
2389.8	55.36	61.34	74	-18.64	27.16	4.36	37.5	285	55	Peak
2452	86.52	92.12			27.38	4.41	37.39	285	55	Average
2452	95.36	100.96			27.38	4.41	37.39	285	55	Peak
2485.68	41.56	46.76	54	-12.44	27.61	4.44	37.25	285	55	Average
2485.68	60.58	65.94	74	-13.42	27.53	4.43	37.32	285	55	Peak
4904	35.55	50.21	54	-18.45	31.31	6.88	52.85	203	256	Average
4904	46.33	60.99	74	-27.67	31.31	6.88	52.85	203	256	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.66	39.56	45.54	54	-14.44	27.16	4.36	37.5	229	344	Average
2389.66	63.29	69.54	74	-10.71	26.93	4.31	37.49	229	344	Peak
2452	94.45	100.05			27.38	4.41	37.39	229	344	Average
2452	104.69	110.29			27.38	4.41	37.39	229	344	Peak
2483.88	46.58	51.94	54	-7.42	27.53	4.43	37.32	229	344	Average
2483.88	66.45	71.81	74	-7.55	27.53	4.43	37.32	229	344	Peak
4904	35.31	50.36	54	-18.69	31.1	6.88	53.03	174	123	Average
4904	45.87	60.92	74	-28.13	31.1	6.88	53.03	174	123	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 2452 MHz: Fundamental frequency.

9 kHz ~ 30 MHz Data:

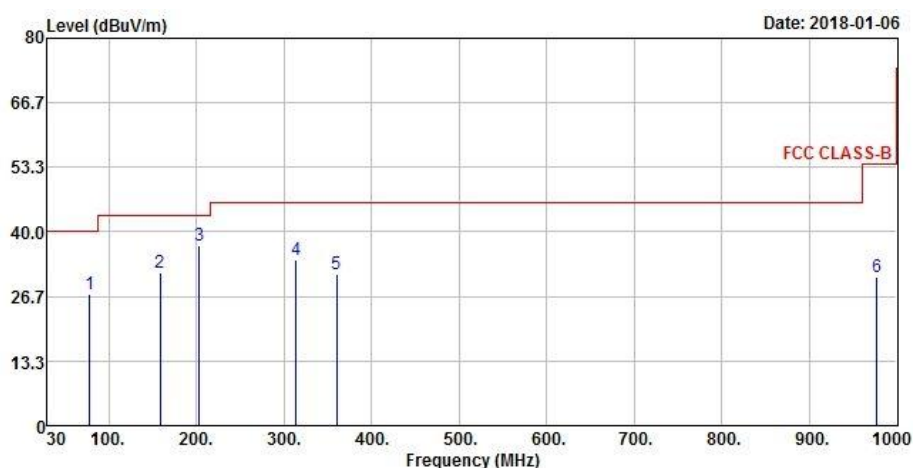
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

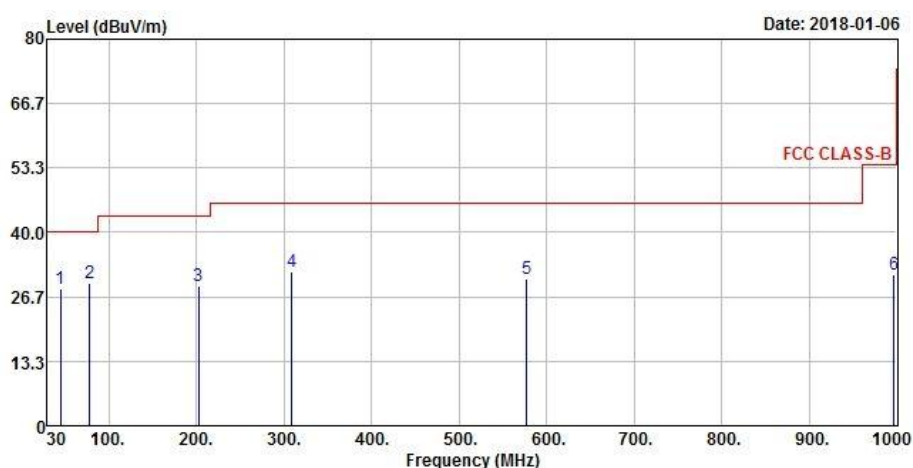
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyoung Wang

Horizontal



Vertical



Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
78.5	27.24	49.53	40	-12.76	8.61	0.67	31.57	200	0	Peak
159.01	31.56	49.66	43.5	-11.94	12.73	1.02	31.85	325	125	Peak
203.63	37.32	58.25	43.5	-6.18	9.52	1.25	31.7	111	185	Peak
314.21	34.3	51.22	46	-11.7	13.29	1.72	31.93	232	251	Peak
359.8	31.15	46.82	46	-14.85	14.38	1.92	31.97	111	185	Peak
976.72	30.84	34.33	54	-23.16	23.94	4.35	31.78	111	165	Peak
Antennal Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
44.55	28.29	45.32	40	-11.71	13.6	0.51	31.14	325	265	Peak
78.5	29.64	51.93	40	-10.36	8.61	0.67	31.57	111	185	Peak
202.66	28.83	49.83	43.5	-14.67	9.48	1.24	31.72	222	251	Peak
309.36	31.88	48.96	46	-14.12	13.17	1.69	31.94	326	251	Peak
577.08	30.3	40.53	46	-15.7	19.08	2.8	32.11	111	154	Peak
996.12	31.33	34.63	54	-22.67	24.05	4.41	31.76	111	125	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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

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