# FCC RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C

Test Standard FCC Part 15.247

FCC ID OHBUPCCHTGWS01

Brand name AAEON

Product name UP-Core board

Model No. xUPC-CHT01x (x-where x may be any combination of

alphanumeric characters or "-" or blank)

Test Result Pass

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.( Wugu Laboratory)



Testing Laboratory
1309

Report No.: T171027D06-B-RP1

Approved by: Tested by:

Tum Cleany

Sam Chuang Manager Jerry Chuang Engineer

erry Chang

# **Revision History**

Rev.	Issue Date	Revisions	Revised By
00	January 16, 2018	Initial Issue	May Lin

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# 1. GENERAL INFORMATION

# 1.1 EUT INFORMATION

	AAEON Technology Inc.
Applicant	5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City,
	Taiwan, R.O.C
Manufacturer	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City,
Manufacturer	Taiwan, R.O.C
Equipment	UP-Core board
Model No.	xUPC-CHT01x (x-where x may be any combination of alphanumeric characters or "-" or blank)
Model Discrepancy	All the above models are identical except for the designation of model numbers. The suffix of (x-where x may be any combination of alphanumeric characters or "-" or blank) on model number is just for marketing purpose only.
Received Date	October 27, 2017
Date of Test	November 10, 2017 ~ January 11, 2018
Output Power(W)	IEEE 802.11b mode: 0.0655 IEEE 802.11g mode: 0.1047 IEEE 802.11n HT 20 MHz mode : 0.0942
Power Supply	5VDC from AC adapter I/P:100~240VAC 0.6A 50~60Hz O/P: 5VDC 4A

# **1.2 EUT CHANNEL INFORMATION**

Frequency Range	2412MHz-2462MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 MHz mode : OFDM
Bandwidth	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode: 11 Channels

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#### Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested						
Frequency range in Number of Location in frequency which device operates frequencies range of operation						
☐ 1 MHz or less	1	Middle				
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom				
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom				

# **1.3 ANTENNA INFORMATION**

Antenna Type	☐ PIFA ☐ PCB ☒ Dipole ☐ Coils
Antenna Gain	Gain: 2dBi

# 1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 2.96
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683
3M Semi Anechoic Chamber / 40G~60G	+/- 1.8509
3M Semi Anechoic Chamber / 60G~75G	+/- 1.9869
3M Semi Anechoic Chamber / 75G~110G	+/- 2.9651
3M Semi Anechoic Chamber / 110G~170G	+/- 2.7807
3M Semi Anechoic Chamber / 170G~220G	+/- 3.6437
3M Semi Anechoic Chamber / 220G~325G	+/- 4.2982

#### Remark:

<sup>1.</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

<sup>2.</sup> ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

# 1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Jerry Chuang	-
Radiation	Jerry Chuang	-
RF Conducted	Jerry Chuang	-

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**Remark:** The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

#### 1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site							
Equipment Manufacturer Model S/N Cal Date Cal Du							
Power Meter	Anritsu	ML2495A	1033009	04/11/2017	04/10/2018		
Power Sensor	Anritsu	MA2411B	917072	07/03/2017	07/02/2018		
Spectrum Analyzer	Keysight	N9010B	MY55460167	06/14/2017	06/13/2018		
Thermostatic/Hrgros atic Chamber	GWINSTEK	GTC-288MH-CC	TH160402	05/23/2017	05/22/2018		

3M 966 Chamber Test Site							
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due		
Bilog Antenna	Sunol Sciences	JB3	A030105	06/20/2017	06/19/2018		
Horn Antenna	EMCO	3117	00055165	02/20/2017	02/19/2018		
Pre-Amplifier	EMCI	EMC 012635	980151	08/01/2017	07/31/2018		
Pre-Amplifier	EMEC	EM330	060609	06/07/2017	06/06/2018		
Spectrum Analyzer	Agilent	E4446A	US42510252	11/27/2017	11/26/2018		
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R		
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R		

AC Conduction Test Room							
Name of Equipment   Manufacturer   Model   S/N   Cal Date   Cal Due							
LISN	R&S	ENV216	101054	05/18/2017	05/17/2018		
LISN	SCHWARZBECK	NSLK 8127	8127-541	02/14/2017	02/13/2018		
EMI Test Receiver	R&S	ESCI	100064	05/17/2017	05/16/2018		

#### Remark:

<sup>1.</sup> Each piece of equipment is scheduled for calibration once a year and Precision Dipole is scheduled for calibration once three years.

<sup>2.</sup> N.C.R. = No Calibration Request.

# 1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment							
No. Equipment Brand Model Series No. FCC ID							
	N/A						

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	Support Equipment							
No.	Equipment	Brand	Model	Series No.	FCC ID			
1	AC power Source	Extech	6805	N/A	N/A			

## 1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074 D01 v04.



# 2. TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(a)(2)	4.2	6 dB Bandwidth	Pass
15.247(b)	4.3	Output Power Measurement	Pass
15.247(e)	4.4	Power Spectral Density	Pass
15.247(d)	4.5	Conducted Band Edge	Pass
15.247(d)	4.5	Conducted Emission	Pass
15.247(d)	4.6	Radiation Band Edge	Pass
15.247(d)	4.6	Radiation Spurious Emission	Pass

# 3. DESCRIPTION OF TEST MODES

## 3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode: MCS0
Test Channel Frequencies	IEEE 802.11b mode:  1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11g mode:  1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11n HT20 mode:  1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2437MHz 3. Highest Channel: 2437MHz
Operation Transmitter	IEEE 802.11b mode: 1T1R IEEE 802.11g mode: 1T1R IEEE 802.11n HT20 mode: 1T1R

#### Remark:

<sup>1.</sup> EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

#### 3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission					
Test Condition AC Power line conducted emission for line and neutral					
Voltage/Hz	120V / 60Hz				
Test Mode	Mode 1: EUT power by AC adapter via power cable.				
Worst Mode	Mode 1				

Radiated Emission Measurement Above 1G					
Test Condition Band edge, Emission for Unwanted and Fundamental					
Voltage/Hz 120V / 60Hz					
Test Mode Mode 1: EUT power by AC adapter via power cable.					
Worst Mode					
Worst Position	<ul> <li>□ Placed in fixed position.</li> <li>☑ Placed in fixed position at X-Plane (E2-Plane)</li> <li>□ Placed in fixed position at Y-Plane (E1-Plane)</li> <li>□ Placed in fixed position at Z-Plane (H-Plane)</li> </ul>				
Worst Polarity					

Radiated Emission Measurement Below 1G					
Test Condition Radiated Emission Below 1G					
Voltage/Hz 120V / 60Hz					
Test Mode Mode 1: EUT power by AC adapter via power cable.					
Worst Mode   Mode 1   Mode 2   Mode 3   Mode 4					

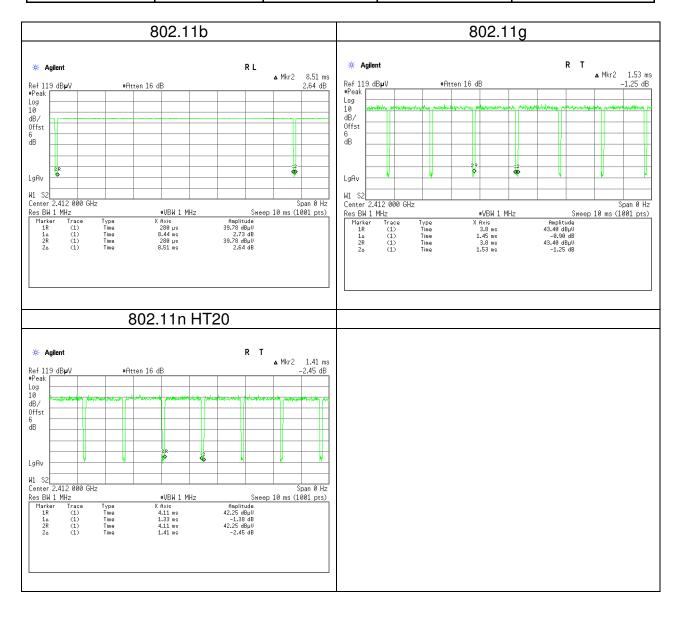
#### Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis, X, Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case (X-Plane and Horizontal) were recorded in this report
- 3. For below 1G, AC power line conducted emission and radiation emission were performed the EUT transmit at the highest output power channel as worse case.



## 3.3 EUT DUTY CYCLE

Duty Cycle								
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)	Duty Factor(dB)				
802.11b	802.11b 8.4400		99.18%	0.04				
802.11g	1.4500	1.5300	94.77%	0.23				
802.11n HT20	1.3300	1.4100	94.33%	0.25				



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#### 4. TEST RESULT

#### 4.1 AC POWER LINE CONDUCTED EMISSION

#### 4.1.1 Test Limit

According to §15.207(a)(2)

Frequency Range	Limits(dBμV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

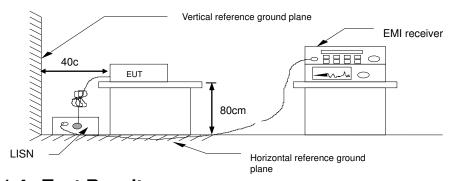
<sup>\*</sup> Decreases with the logarithm of the frequency.

#### 4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

- 1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
- 2. EUT connected to the line impedance stabilization network (LISN)
- 3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. Recorded Line for Neutral and Line.

# 4.1.3 Test Setup

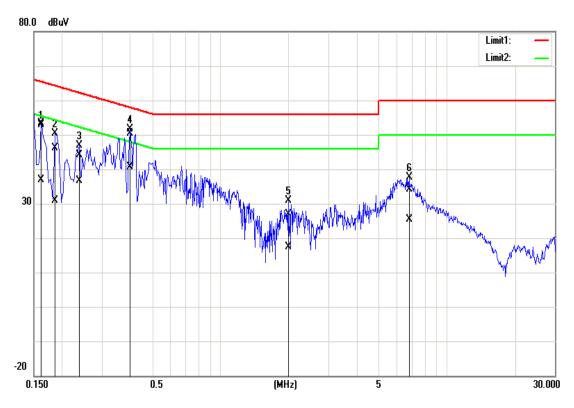


#### 4.1.4 Test Result

#### Pass.

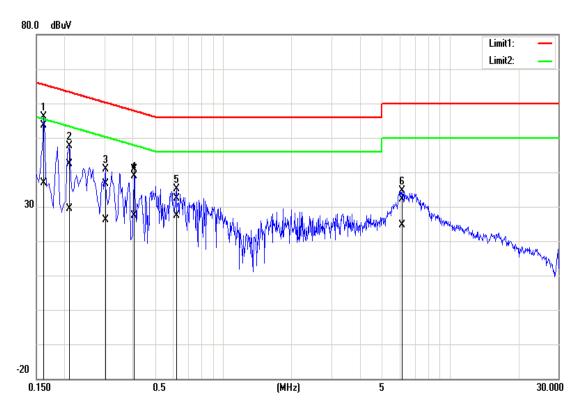
# **Test Data**

Test Mode:	Test Mode: Mode 1		24(°ℂ)/ 50%RH		
Test Voltage:	120Vac / 60Hz	Test Date	November 14, 2017		
Phase:	Line	Test Engineer	Jerry Chuang		



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)
1	0.1620	53.37	36.84	-0.02	53.35	36.82	65.36	55.36	-12.01	-18.54
2	0.1860	46.08	30.87	-0.03	46.05	30.84	64.21	54.21	-18.16	-23.37
3	0.2380	44.21	36.73	-0.03	44.18	36.70	62.17	52.17	-17.99	-15.47
4	0.3980	50.38	40.62	-0.05	50.33	40.57	57.90	47.90	-7.57	-7.33
5	1.9980	27.04	17.42	-0.06	26.98	17.36	56.00	46.00	-29.02	-28.64
6	6.8260	34.11	25.28	0.07	34.18	25.35	60.00	50.00	-25.82	-24.65

Test Mode:	Mode 1	Temp/Hum	24(°ℂ)/ 50%RH		
Test Voltage:	Test Voltage: 120Vac / 60Hz		November 14, 2017		
Phase:			Jerry Chuang		



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)
1	0.1620	53.76	36.92	-0.09	53.67	36.83	65.36	55.36	-11.69	-18.53
2	0.2100	42.43	29.52	-0.10	42.33	29.42	63.21	53.21	-20.88	-23.79
3	0.3020	36.63	26.37	-0.12	36.51	26.25	60.19	50.19	-23.68	-23.94
4	0.4060	40.99	27.53	-0.13	40.86	27.40	57.73	47.73	-16.87	-20.33
5	0.6220	32.50	27.39	-0.13	32.37	27.26	56.00	46.00	-23.63	-18.74
6	6.1740	32.28	24.73	-0.17	32.11	24.56	60.00	50.00	-27.89	-25.44

# 4.2 6DB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

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#### 4.2.1 Test Limit

According to §15.247(a)(2)

#### 6 dB Bandwidth:

Limit	Shall be at least 500kHz

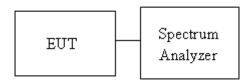
Occupied Bandwidth(99%) : For reporting purposes only.

#### 4.2.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 8.1 and ANSI 63.10:2013 clause 6.9.2,

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth and 99% Bandwidth.
- 4. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

# 4.2.3 Test Setup





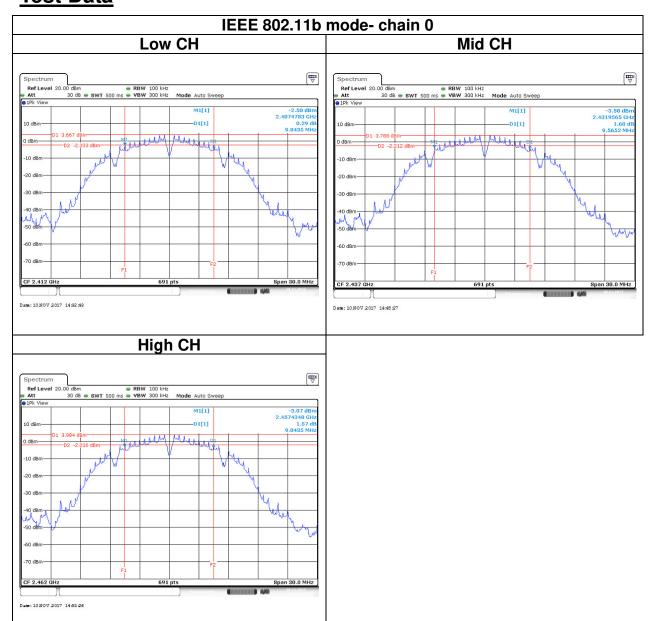
## 4.2.4 Test Result

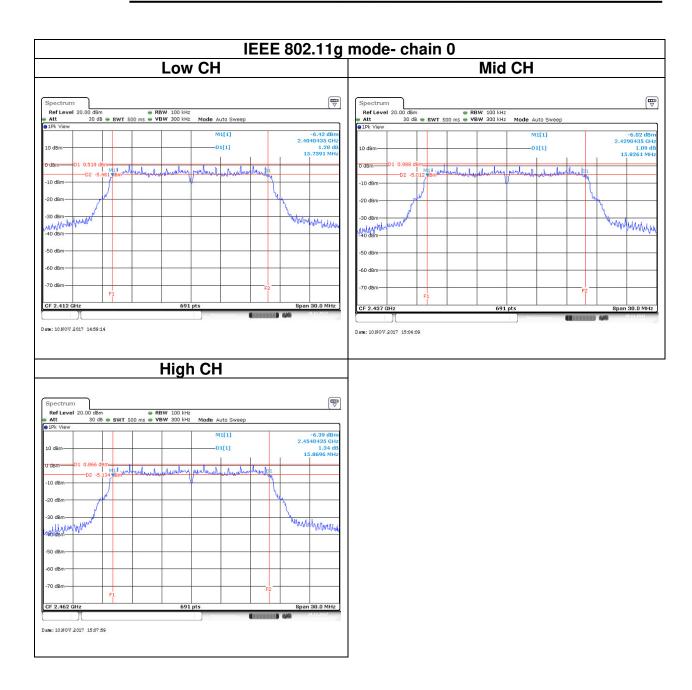
Test mode: IEEE 802.11b mode / 2412-2462 MHz								
Channel	Channel Frequency (MHz) Chain 0 Chain 1 Chain 0 Chain 1 6dB BW (MHz) (MHz) (MHz) (MHz) (MHz)							
Low	2412	14.0665		9.0435				
Mid	2437	14.0231		9.5652		≥500		
High	2462	14.0231		9.0435				

Test mode: IEEE 802.11g mode / 2412-2462 MHz								
Channel	Frequency (MHz)  Chain 0 OBW(99%) OBW(99%) (MHz)  Chain 1 Chain 0 6dB BW (MHz)  6dB BW (MHz)							
Low	2412	16.7149		15.7391				
Mid	2437	16.6714		15.8261		≥500		
High	2462	16.7149		15.8696				

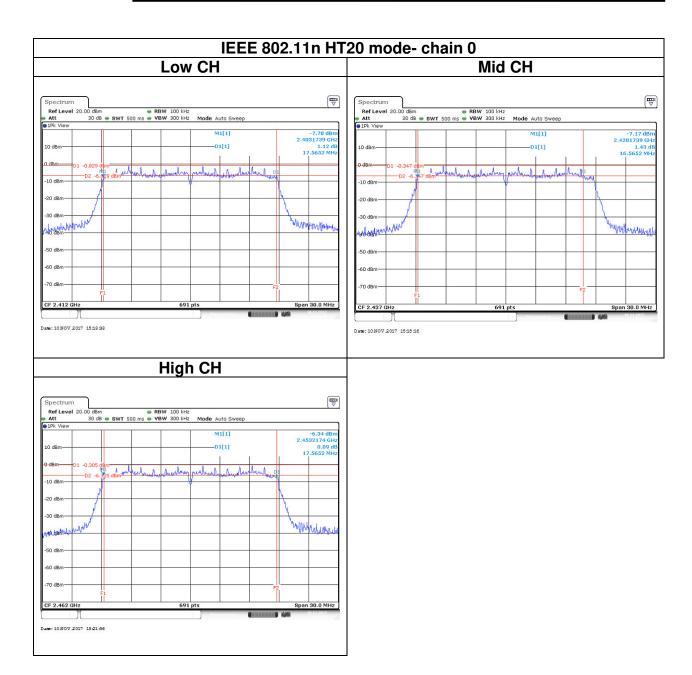
Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz								
Channel	Frequency (MHz)  Chain 0  OBW(99%) (MHz)  Chain 1  OBW(99%) (MHz)  Chain 0  6dB BW (MHz)  6dB BW (MHz)							
Low	2412	17.8871		17.5652				
Mid	2437	17.8437		16.5652		≥500		
High	2462	17.8437		17.5652				

# Test Data









# **4.3 OUTPUT POWER MEASUREMENT**

#### 4.3.1 Test Limit

According to §15.247(b)

#### Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	Antenna with DG greater than 6 dBi:
	[Limit = 30 - (DG - 6)]
	Point-to-point operation :

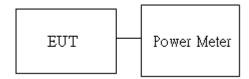
**Average output power**: For reporting purposes only.

#### 4.3.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 9.1.2.

- 1. The EUT RF output connected to the power meter by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- 4. Measure and record the result of Peak output power and Average output power. in the test report.

#### 4.3.3 Test Setup



## 4.3.4 Test Result

## Peak output power:

	Wifi 2.4G										
Config	СН	Freq.	powe	er set	PK Pow	er(dBm)	PK Total Power	PK Total Power	Limit		
Coning	Cfi	(MHz)	chain0	chain1	chain0	chain1	(dBm)	(W)	(dBm)		
IEEE	Low	2412	-1	-	17.09	-	17.09	0.0512			
802.11b Data rate: 1Mbps	Mid	2437	-1	-	17.53	-	17.53	0.0566			
	High	2462	-1	-	18.16	-	18.16	0.0655			
IEEE	Low	2412	-1	-	19.35	-	19.35	0.0861			
802.11g Data rate:	Mid	2437	-1	-	19.42	-	19.42	0.0875	30		
6Mbps	High	2462	-1	-	20.20	-	20.20	0.1047			
IEEE 802.11n	Low	2412	-1	-	18.04	-	18.04	0.0637			
HT20	Mid	2437	-1	-	19.74	-	19.74	0.0942			
Data rate: MCS 0	High	2462	-1	-	19.66	-	19.66	0.0925			

#### **Average output power:**

Wifi 2.4G							
Config	СН	Freq.	AV Pow	er(dBm)	AV Total Power		
Coming	OH	(MHz)	chain0	chain1	(dBm)		
IEEE	Low	2412	11.60	-	11.60		
802.11b Data rate:	Mid	2437	12.11	-	12.11		
1Mbps	High	2462	12.64	-	12.64		
IEEE	Low	2412	11.54	-	11.54		
802.11g Data rate:	Mid	2437	12.36	-	12.36		
6Mbps	High	2462	12.68	-	12.68		
IEEE 802.11n HT20	Low	2412	10.35	-	10.35		
	Mid	2437	11.10	-	11.10		
Data rate: MCS 0	High	2462	11.30	-	11.30		

#### 4.4 POWER SPECTRAL DENSITY

#### 4.4.1 Test Limit

According to §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

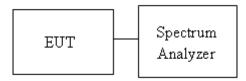
	Antenna not exceed 6 dBi : 8dBm
Limit	Antenna with DG greater than 6 dBi:
	[ Limit = $8 - (DG - 6)$ ]
	Point-to-point operation:

#### 4.4.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 10.2

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- 4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
- 5. Mark the maximum level.
- 6. Measure and record the result of power spectral density. in the test report.

#### 4.4.3 Test Setup





## 4.4.4 Test Result

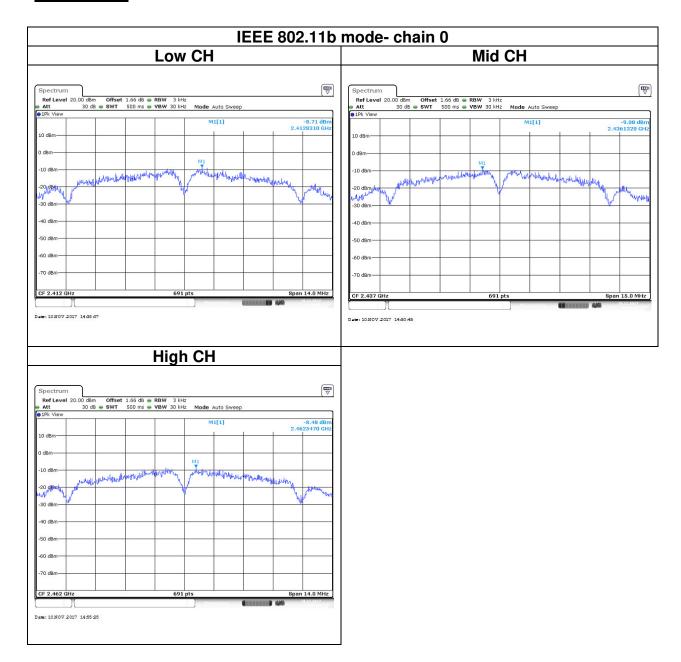
Test mode: IEEE 802.11b mode / 2412-2462 MHz							
Channel	Channel Frequency (MHz) Chain 0 Chain 1 Total PPSD PPSD (dBm) (dBm) Limit (dBm)						
Low	2412	-8.71	-	-8.71			
Mid	2437	-9.08	-	-9.08	8		
High	2462	-8.48	-	-8.48			

Test mode: IEEE 802.11g mode / 2412-2462 MHz							
Channel	Frequency (MHz)  Chain 0 PPSD PPSD PPSD PPSD (dBm)  Chain 1 PSD PSSD (dBm)  Limit (dBm)						
Low	2412	-12.73	-	-12.73			
Mid	2437	-12.31	1	-12.31	8		
High	2462	-12.18	-	-12.18			

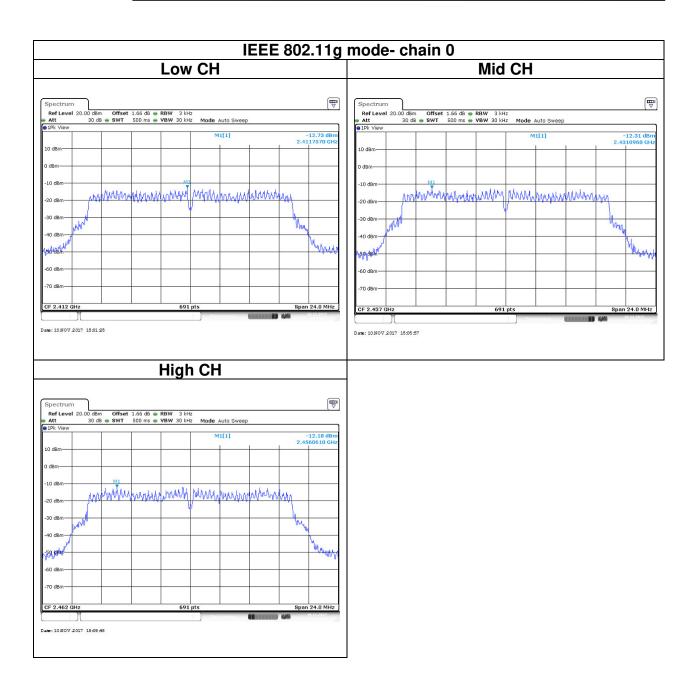
Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz							
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PSSD (dBm)	Limit (dBm)		
Low	2412	-13.86	-	-13.86			
Mid	2437	-13.19	-	-13.19	8		
High	2462	-13.73	-	-13.73			

FCC ID: OHBUPCCHTGWS01

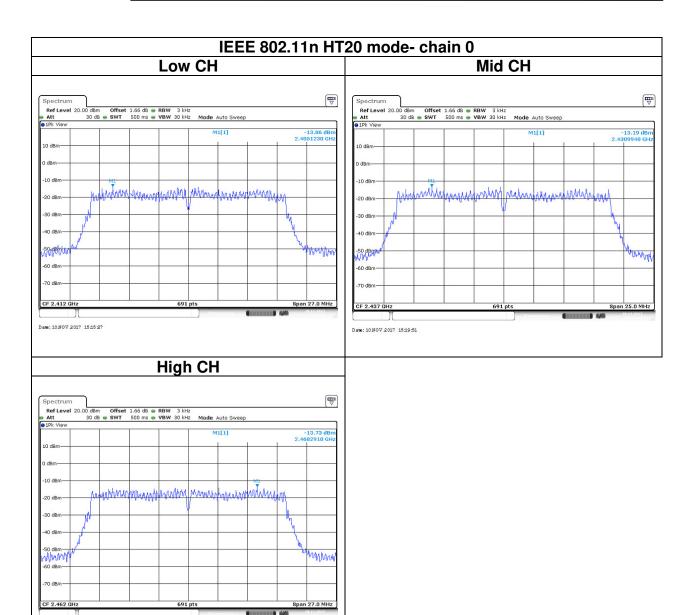
# **Test Data**







Date: 10 NOV 2017 15:23:42



#### 4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

Report No.: T171027D06-B-RP1

#### 4.5.1 Test Limit

According to §15.247(d)

In any 100 kHz bandwidth outside the authorized frequency band,

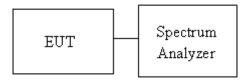
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

#### 4.5.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 11.

- 1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
- 2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
- 3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. f the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### 4.5.3 Test Setup

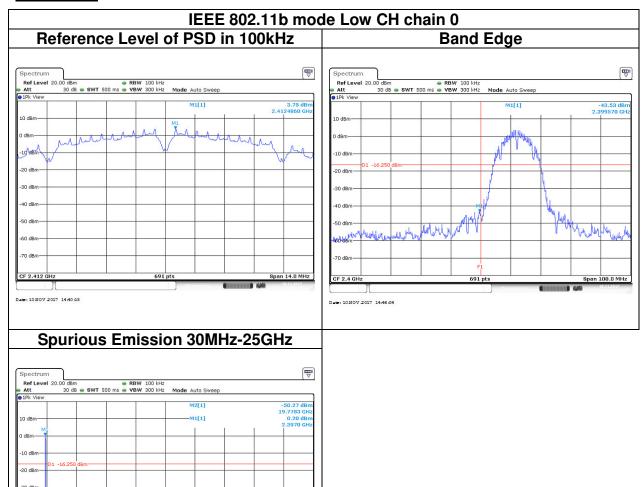


FCC ID: OHBUPCCHTGWS01

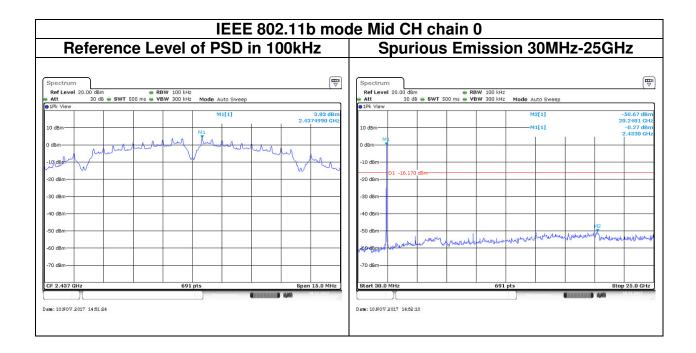
#### 4.5.4 Test Result

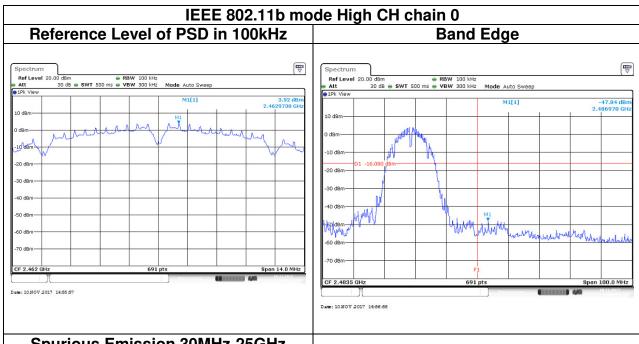
# **Test Data**

Date: 10 NOV 2017 14:46:48

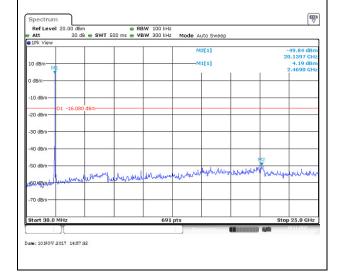


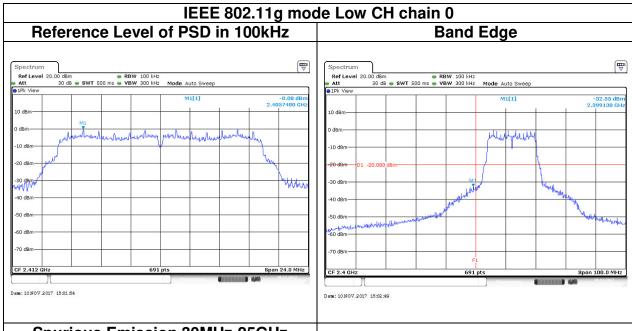




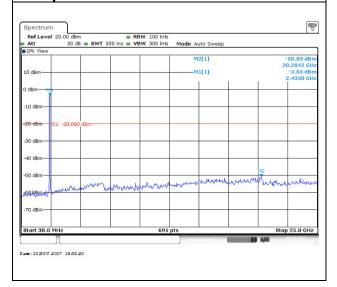




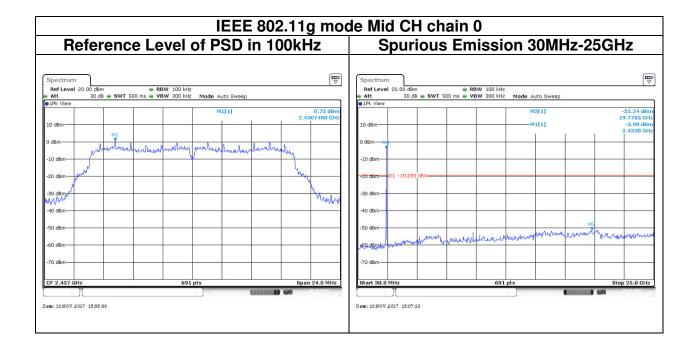


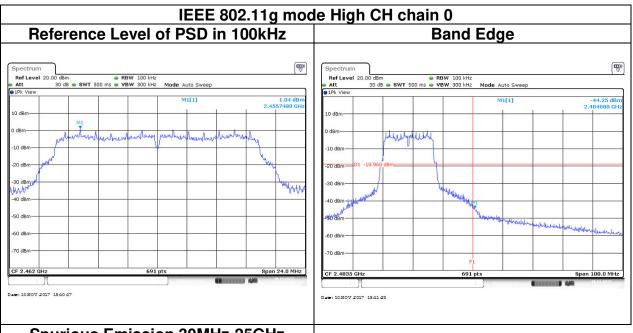




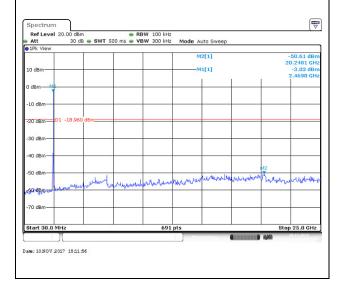


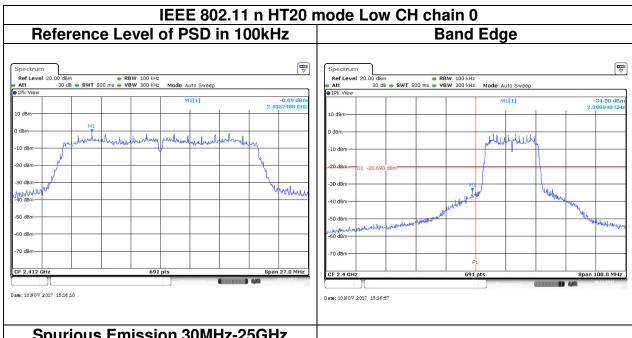




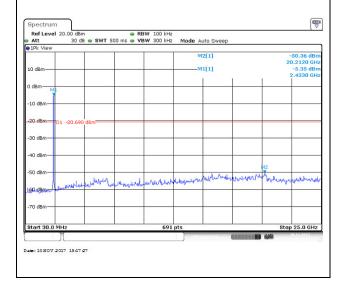


# Spurious Emission 30MHz-25GHz

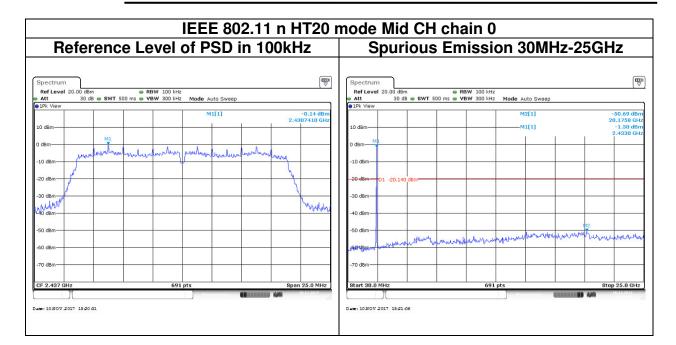


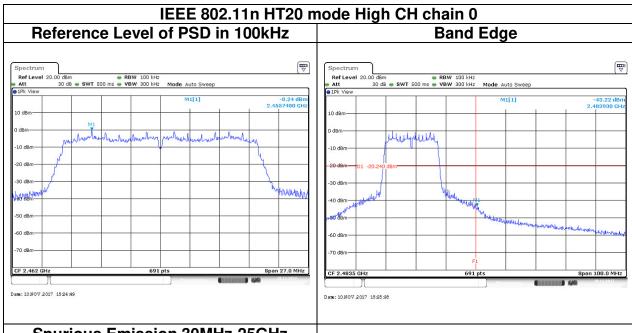




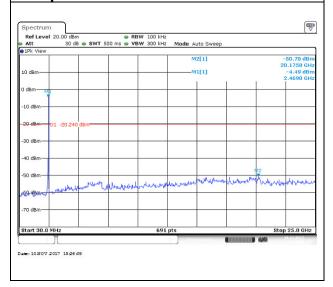


FCC ID: OHBUPCCHTGWS01









## 4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

# 4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

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#### **Below 30 MHz**

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)	
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300	
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30	
1.705-30 MHz	30	N/A	30	

#### Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

FCC ID: OHBUPCCHTGWS01

#### 4.6.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 12.1.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.

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- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

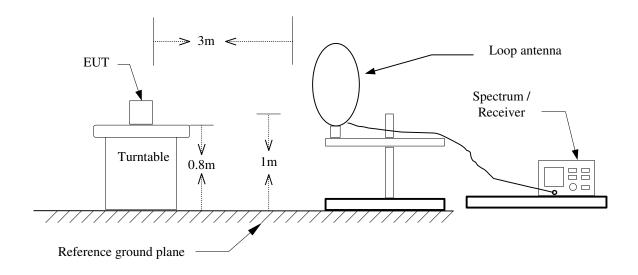
Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

- 5. The SA setting following:
  - (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
  - (2) Above 1G:
    - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
    - (2.2) For Average measurement : RBW = 1MHz, VBW
      - If Duty Cycle ≥ 98%, VBW=10Hz.
      - If Duty Cycle < 98%, VBW=1/T.

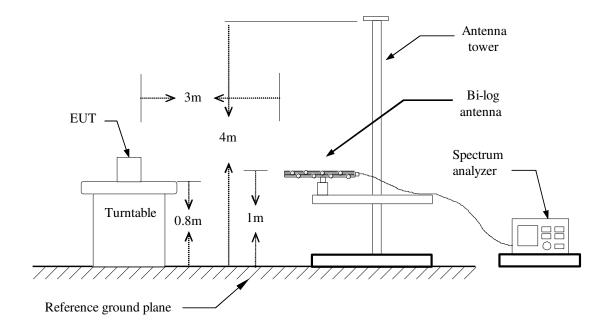
Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting
802.11b	99%	8.4400	-	300Hz
802.11g	95%	1.4500	0.690	750Hz
802.11n HT20	94%	1.3300	0.752	820Hz

# 4.6.3 Test Setup

# 9kHz ~ 30MHz

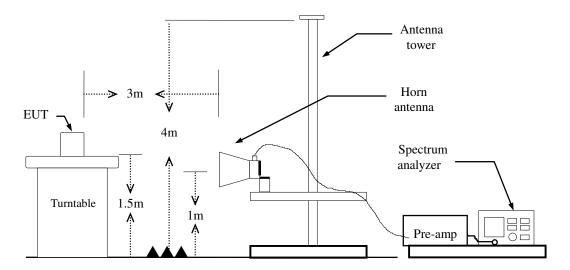


# 30MHz ~ 1GHz





# **Above 1 GHz**

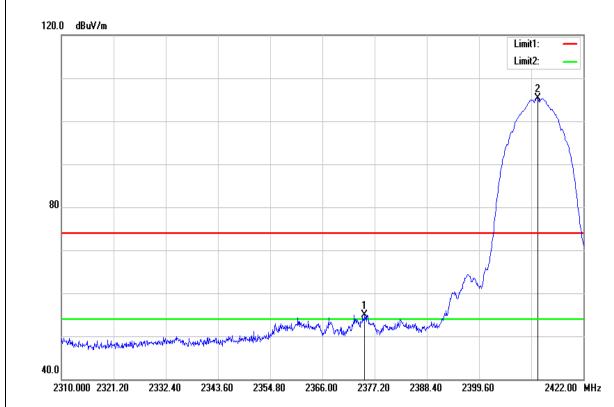




# 4.6.4 Test Result

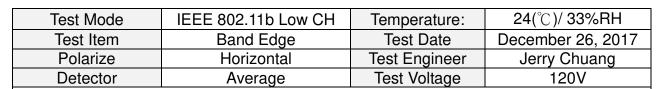
# **Band Edge Test Data**

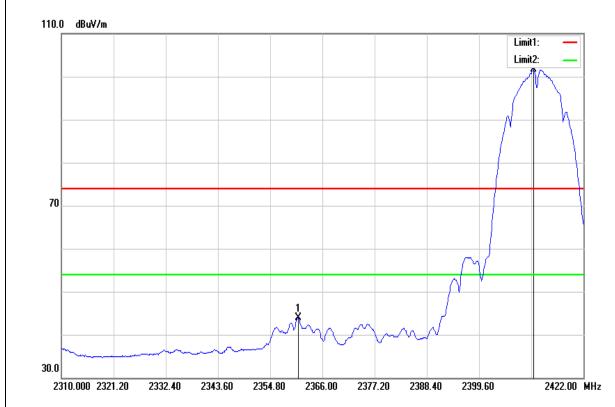
Test Mode	IEEE 802.11b Low CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Band Edge	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2375.072	57.98	-3.02	54.96	74.00	-19.04	peak
2412.144	108.24	-2.91	105.33	-	-	peak

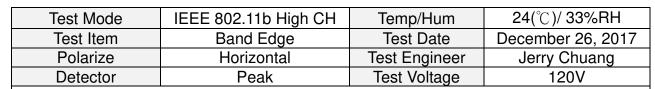


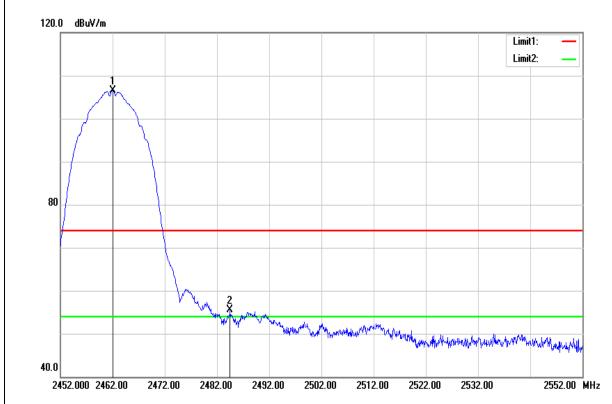




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2360.848	47.07	-3.08	43.99	54.00	-10.01	AVG
2411.248	104.53	-2.92	101.61	-	-	AVG

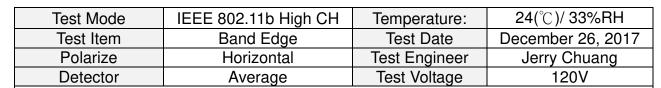


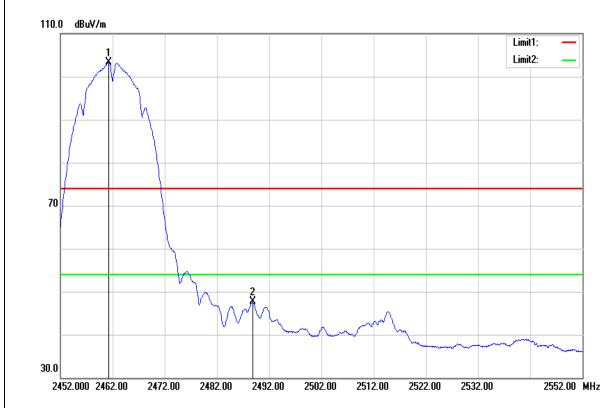




Frequency (MHz)	Reading (dBuV)	Correct Factor (d /m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2462.000	109.20	-2.76	106.44		1	peak
2484.500	58.23	-2.69	55.54	74.00	-18.46	peak

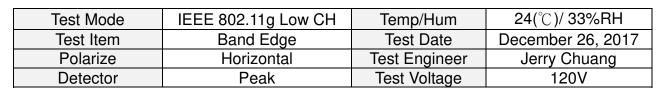


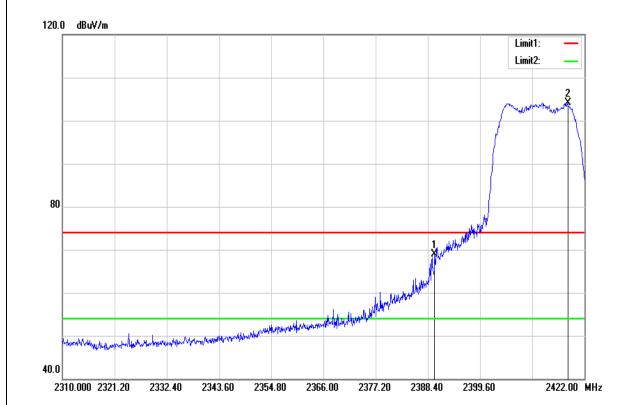




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.300	106.12	-2.76	103.36	-	-	AVG
2488.800	50.28	-2.67	47.61	54.00	-6.39	AVG

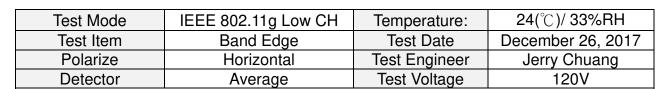


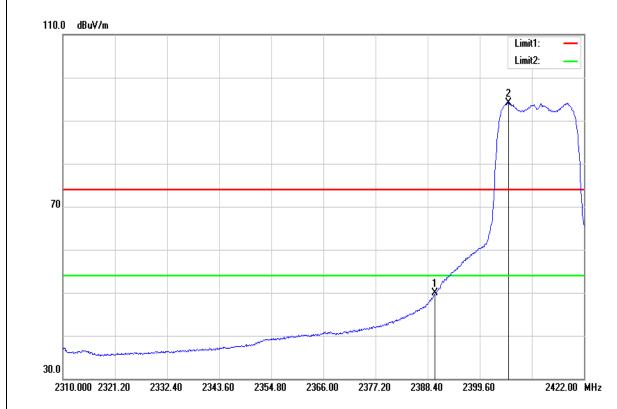




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2389.856	71.88	-2.98	68.90	74.00	-5.10	peak
2418.416	106.93	-2.89	104.04	-	-	peak



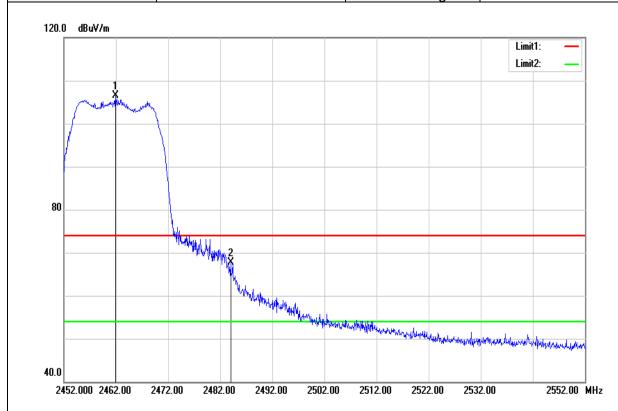




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.000	52.94	-2.98	49.96	54.00	-4.04	AVG
2405.760	96.99	-2.93	94.06	-	-	AVG

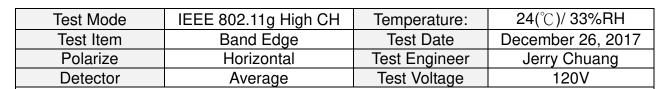


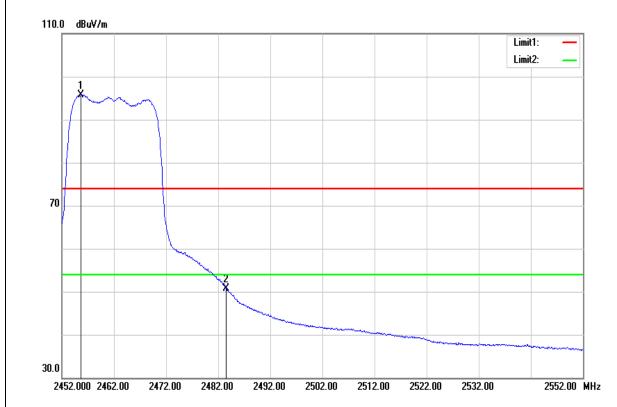
Test Mode	IEEE 802.11g High CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Band Edge	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.900	109.17	-2.76	106.41	-	-	peak
2484.000	70.38	-2.69	67.69	74.00	-6.31	peak

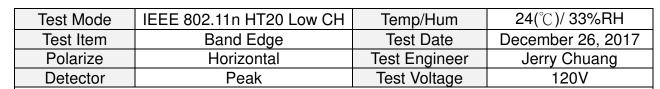


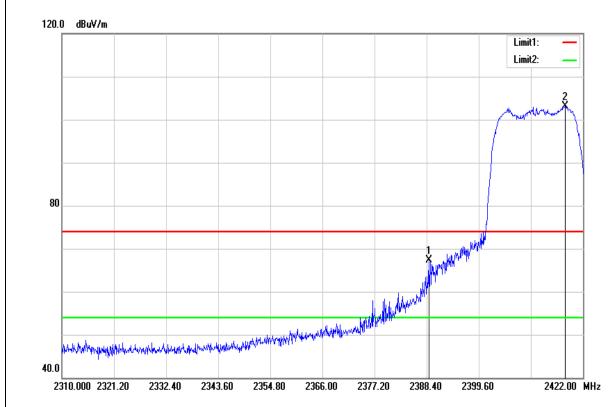




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2455.700	98.49	-2.78	95.71	1	ı	AVG
2483.500	53.45	-2.69	50.76	54.00	-3.24	AVG



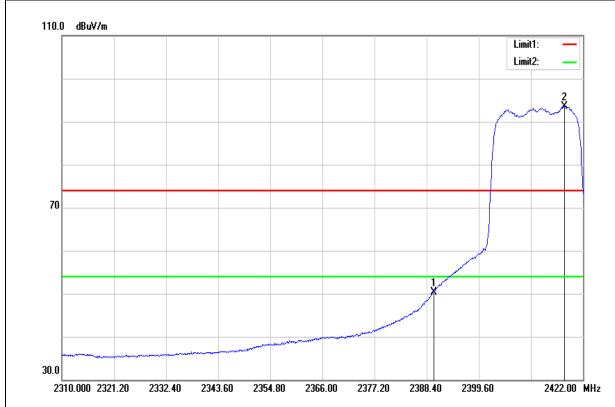




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2388.848	70.24	-2.98	67.26	74.00	-6.74	peak
2418.192	106.00	-2.89	103.11	-	-	peak



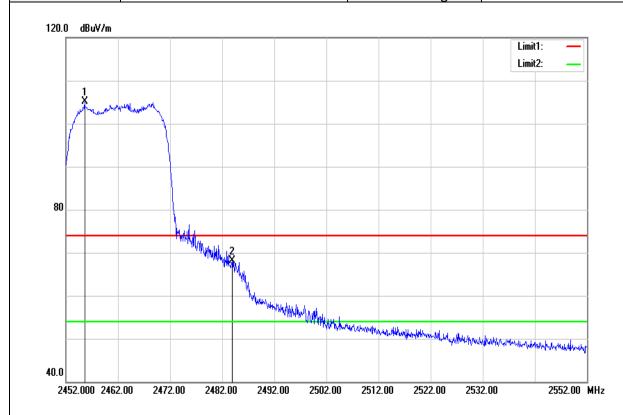
24(°C)/ 33%RH IEEE 802.11n HT20 Low CH Test Mode Temperature: Band Edge Test Item Test Date December 26, 2017 Test Engineer Jerry Chuang Polarize Horizontal Test Voltage 120V Detector Average



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.000	53.27	-2.98	50.29	54.00	-3.71	AVG
2418.080	96.47	-2.89	93.58	-	-	AVG

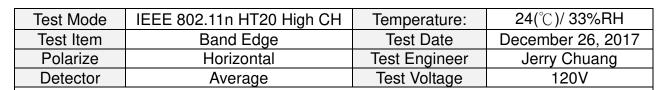


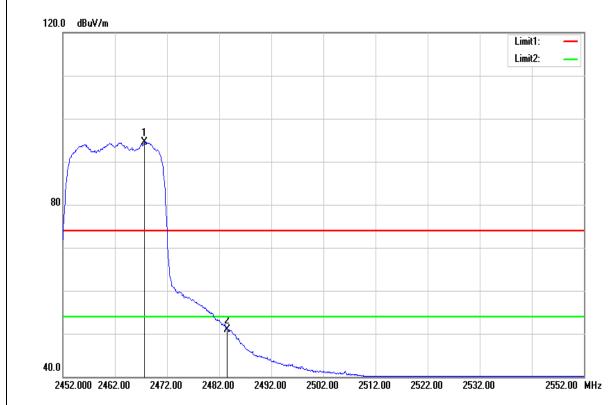
24(°C)/ 33%RH Test Mode IEEE 802.11n HT20 High CH Temp/Hum Test Item Band Edge Test Date December 26, 2017 Polarize Horizontal Jerry Chuang Test Engineer Peak Test Voltage 120V Detector



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2455.600	107.89	-2.78	105.11	-	-	peak
2483.900	70.74	-2.69	68.05	74.00	-5.95	peak





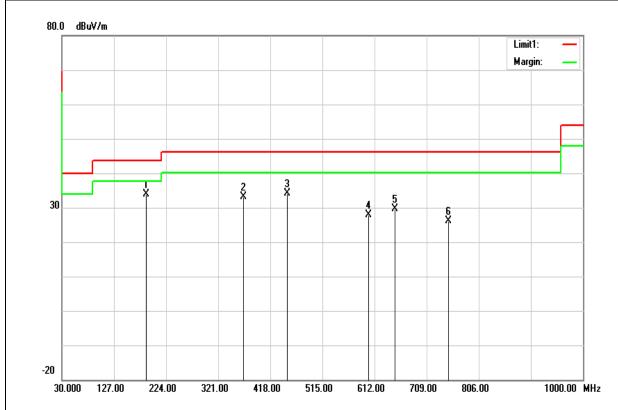


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2467.700	97.29	-2.73	94.56	1	ı	AVG
2483.500	53.58	-2.69	50.89	54.00	-3.11	AVG



# **Below 1G Test Data**

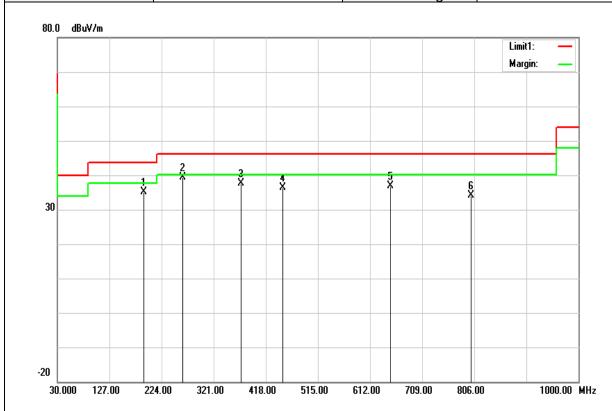
Test Mode	Mode 1	Temp/Hum	24(°C)/ 33%RH
Test Item	30MHz-1GHz	Test Date	January 11, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
187.1400	50.46	-16.49	33.97	43.52	-9.55	peak
368.5300	45.55	-12.39	33.16	46.02	-12.86	peak
450.0100	43.77	-9.60	34.17	46.02	-11.85	peak
600.3600	34.86	-6.92	27.94	46.02	-18.08	peak
649.8300	35.30	-5.55	29.75	46.02	-16.27	peak
749.7400	30.39	-4.29	26.10	46.02	-19.92	peak



24(°C)/ 33%RH Test Mode Mode 1 Temp/Hum January 11, 2018 Test Item 30MHz-1GHz Test Date Test Engineer Jerry Chuang Polarize Horizontal Test Voltage 120V Detector Peak



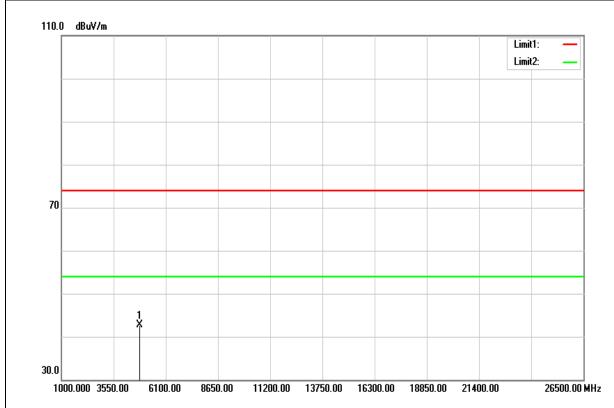
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
191.0200	51.32	-16.12	35.20	43.52	-8.32	QP
263.7700	54.67	-15.29	39.38	46.02	-6.64	peak
371.4400	50.01	-12.30	37.71	46.02	-8.31	peak
450.0100	46.09	-9.60	36.49	46.02	-9.53	peak
649.8300	42.51	-5.55	36.96	46.02	-9.06	peak
800.1800	37.41	-3.38	34.03	46.02	-11.99	peak

FCC ID: OHBUPCCHTGWS01

### **Above 1G Test Data**

Test Mode	IEEE 802.11b Low CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

Report No.: T171027D06-B-RP1



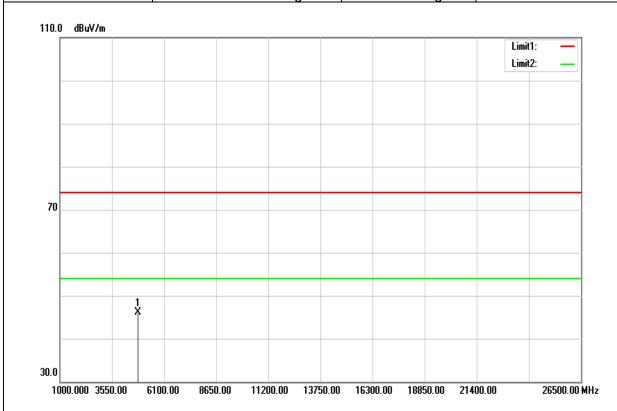
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	38.23	4.38	42.61	74.00	-31.39	peak
N/A						

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b Low CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

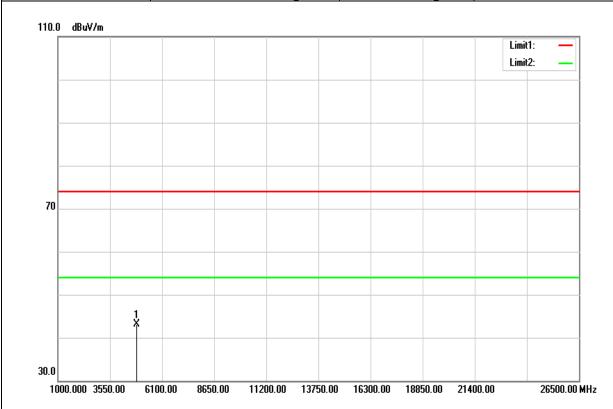


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4827.000	41.64	4.38	46.02	74.00	-27.98	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b Mid CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

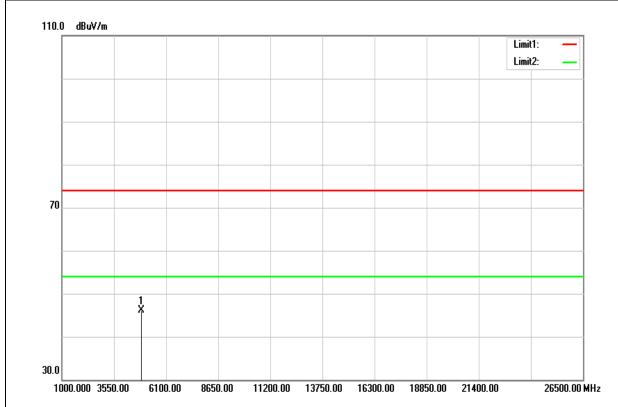


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	38.54	4.47	43.01	74.00	-30.99	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



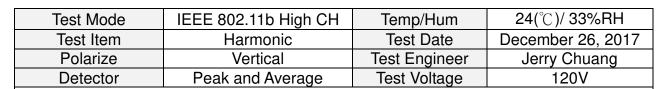
Test Mode	IEEE 802.11b Mid CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

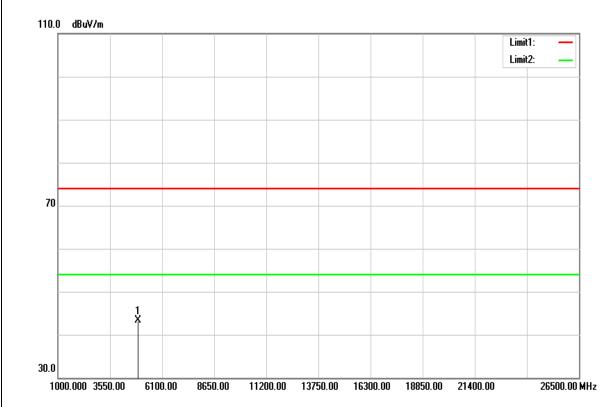


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4876.000	41.71	4.47	46.18	74.00	-27.82	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit





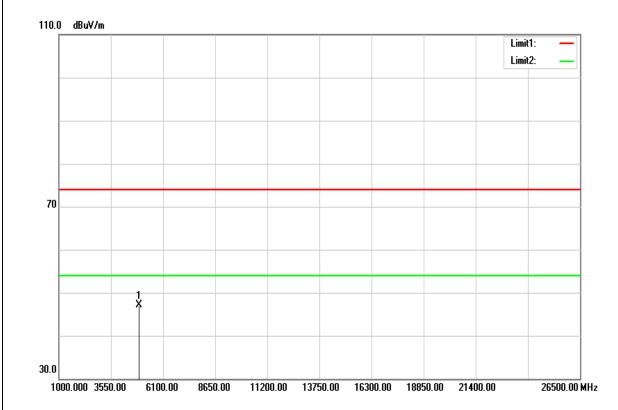


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	38.76	4.55	43.31	74.00	-30.69	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b High CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V



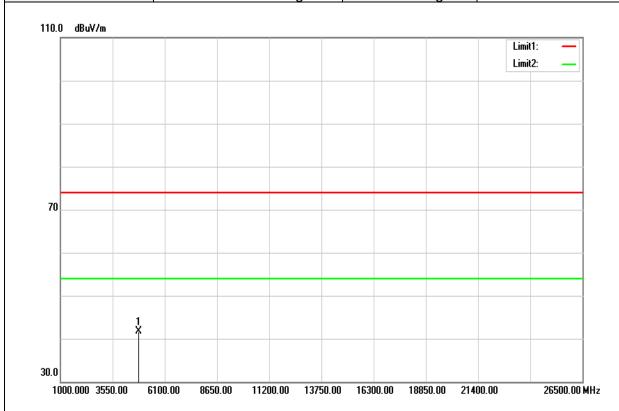
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4925.000	42.49	4.55	47.04	74.00	-26.96	peak
N/A						

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g Low CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

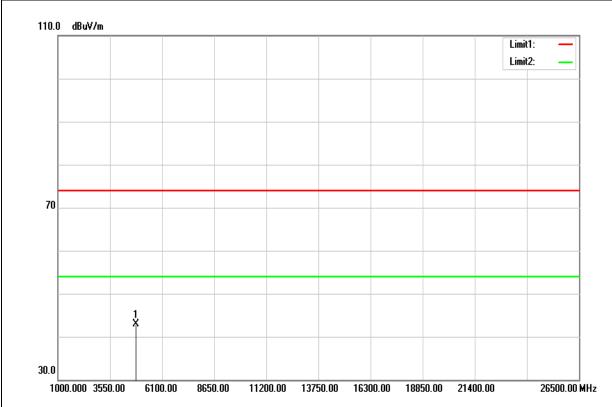


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.25	4.38	41.63	74.00	-32.37	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	st Mode IEEE 802.11g Low CH Temp/Hum		24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

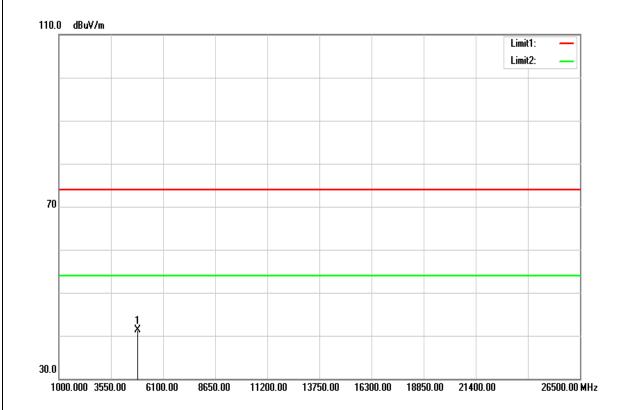


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	38.45	4.38	42.83	74.00	-31.17	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g Mid CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V



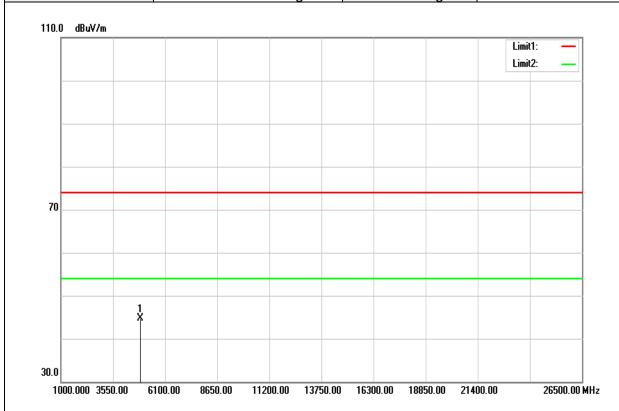
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	36.91	4.47	41.38	74.00	-32.62	peak
N/A						

## Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode IEEE 802.11g Mid CH		Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

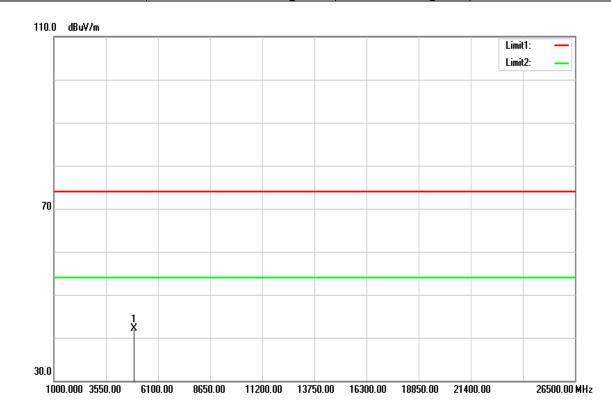


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4883.000	40.14	4.49	44.63	74.00	-29.37	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g High CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

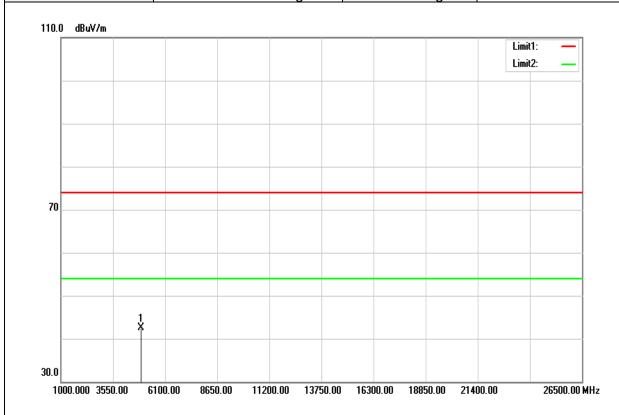


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	37.58	4.55	42.13	74.00	-31.87	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	Test Mode IEEE 802.11g High CH		24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

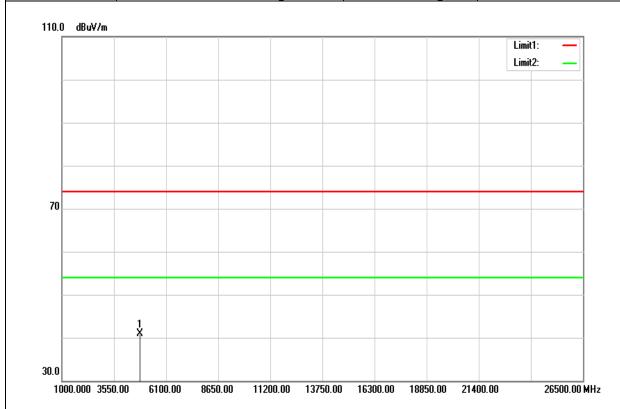


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	38.02	4.55	42.57	74.00	-31.43	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

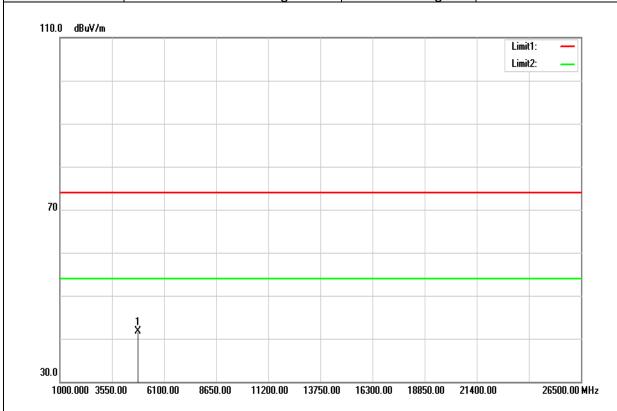


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	36.46	4.38	40.84	74.00	-33.16	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



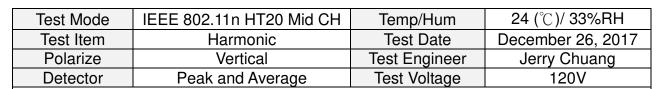
Test Mode IEEE 802.11n HT20 Low CH		Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 26, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	120V

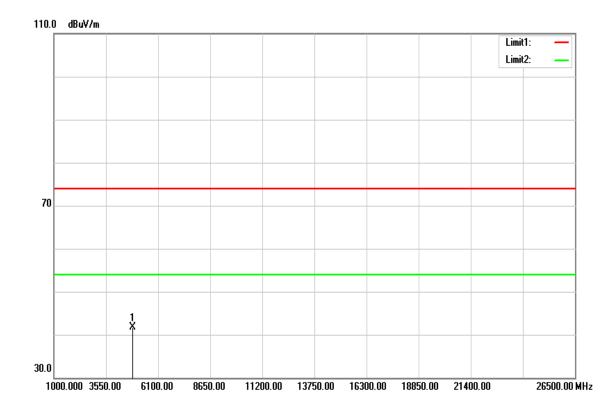


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.35	4.38	41.73	74.00	-32.27	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit





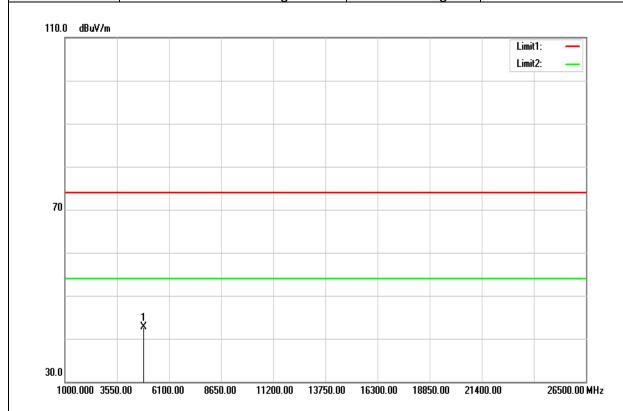


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	37.22	4.47	41.69	74.00	-32.31	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



	Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	24 (°C)/ 33%RH
Test Item Harmonic		Test Date	December 26, 2017	
Polarize Horizontal		Test Engineer	Jerry Chuang	
	Detector Peak and Average		Test Voltage	120V

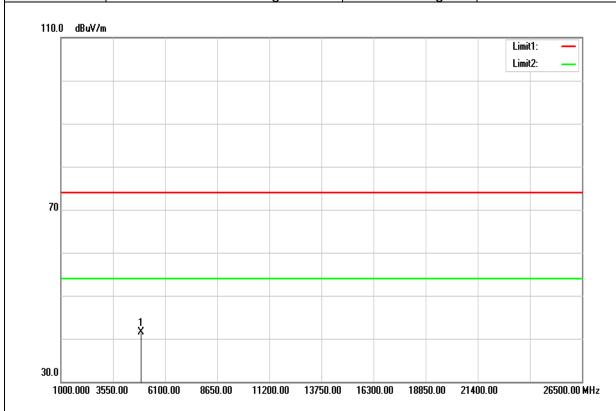


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	38.26	4.47	42.73	74.00	-31.27	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



	Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	24 (°C)/ 33%RH		
	Test Item Harmonic		Test Date	December 26, 2017		
Polarize Vertical		Vertical	Test Engineer	Jerry Chuang		
Detector Peak and Average		Peak and Average	Test Voltage	120V		

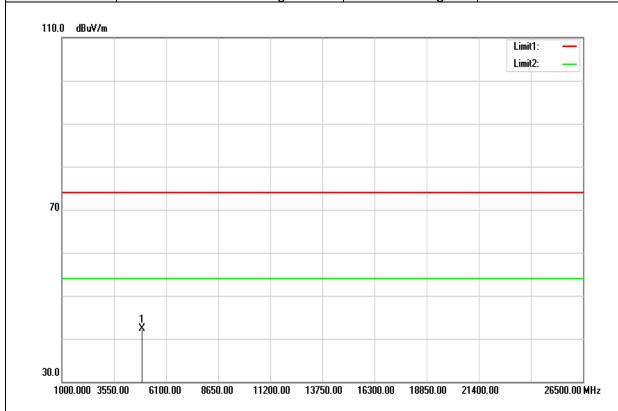


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	36.93	4.55	41.48	74.00	-32.52	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



	Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	24 (°C)/ 33%RH	
Test Item Harmonic		Test Date	December 26, 2017		
	Polarize Horizontal		Test Engineer	Jerry Chuang	
	Detector Peak and Average		Test Voltage	120V	



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	37.65	4.55	42.20	74.00	-31.80	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit