



# CFR 47 FCC PART 15 SUBPART E CERTIFICATION TEST REPORT

For

**Home Gateway** 

**MODEL NUMBER: ZXHH H196Q** 

FCC ID: Q78-ZXHNH196Q

REPORT NUMBER:4789807220-3

ISSUE DATE: March 31, 2021

Prepared for

ZTE CORPORATION

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**Revision History** 

Rev.	Issue Date	Revisions	Revised By
V0	04/01/2021	Initial Issue	



Summary of Test Results				
Clause	Test Items	FCC Rules	Test Results	
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e)	PASS	
2	99% Occupied Bandwidth	RSS-Gen Clause 6.6	PASS	
3	Conducted Output Power	FCC 15.407 (a)	PASS	
4	Power Spectral Density	FCC 15.407 (a)	PASS	
5	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS	
6	Conducted Emission Test for AC Power Port	FCC 15.207	PASS	
7	Frequency Stability	FCC 15.407 (g)	PASS	
8	Antenna Requirement	FCC 15.203	PASS	

#### Note:

<sup>1.</sup> This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

<sup>2.</sup> The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >when <Accuracy Method> decision rule is applied.



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# 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: ZTE CORPORATION

Address: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan

District, Shenzhen, Guangdong, P.R.China

**Manufacturer Information** 

Company Name: ZTE CORPORATION

Address: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan

District, Shenzhen, Guangdong, P.R.China

**EUT Information** 

EUT Name: Home Gateway
Model: ZXHH H196Q
Sample Received Date: February 4, 2021

Sample Status: Normal Sample ID: 3615510

Date of Tested: February 4 ~ March 31, 2021

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
CFR 47 FCC PART 15 SUBPART E	PASS	

Prepared By: Check By:

Kebo. zhang.

Kebo Zhang Shawn Wen Project Engineer Laboratory Leader

Approved By:

Stephen Guo Laboratory Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, KDB414788 D01 Radiated Test Site v01 and KDB 662911 D01 Multiple Transmitter Output v02r01.

### 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)		
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.		
	has been assessed and proved to be in compliance with A2LA.		
	FCC (FCC Designation No.: CN1187)		
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.		
	Has been recognized to perform compliance testing on equipment subject		
	to the Commission's Delcaration of Conformity (DoC) and Certification		
	rules		
	ISED (Company No.: 21320)		
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.		
Certificate has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assess Body Identifier (CABID) is CN0046.  VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)			
			UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
			has been assessed and proved to be in compliance with VCCI, the
			Membership No. is 3793.
	Facility Name:		
	Chamber D, the VCCI registration No. is G-20019 and R-20004		
	Shielding Room B , the VCCI registration No. is C-20012 and T-20011		

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



# 4. CALIBRATION AND UNCERTAINTY

# 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

# 4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.766 dB
Maximum Power Spectral Density Level	±1.22 dB
Frequency Stability	±2.76%
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted	±0.746 dB (9 kHz ~ 1 GHz)
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

# 5.1. DESCRIPTION OF EUT

EUT Name	Home Gateway
Model	ZXHH H196Q
Radio Technology	IEEE802.11a IEEE802.11n HT20/n HT40 IEEE802.11ac VHT20/VHT40/VHT80
Operation frequency	UNII-1/UNII-2A/UNII-2C/UNII-3
Modulation	OFDM (BPSK,QPSK,16QAM,64QAM,256QAM only in ac mode)
Supply Voltage	AC 120V,60Hz



# 5.2. MAXIMUM OUTPUT POWER

# **UNII-1 BAND**

IEEE Std. 802.11	Frequency Maximum Average Conducted Power (MHz) (dBm)		Max Average EIRP (dBm)
a 20 4TX CDD		8.89	14.19
HT20 4TX CDD		Covered by 802.11ac VHT20 4TX CDD	
HT40 4TX CDD	E1E0 - E2E0	Covered by 802.11ac VHT40	4TX CDD
ac VHT20 4TX CD	5150 ~ 5250	8.98	14.28
ac VHT40 4TX CDD		10.26	15.56
ac VHT80 4TX CDD		11.28	16.58

### **UNII-2A BAND**

IEEE Std. 802.11 Frequency (MHz)		Maximum Average Conducted Power (dBm)
a 20 4TX CDD		14.06
HT20 4TX CDD		Covered by 802.11ac VHT20 4TX CDD
HT40 4TX CDD	5050 5050	Covered by 802.11ac VHT40 4TX CDD
ac VHT20 4TX CD	5250 ~ 5350	14.24
ac VHT40 4TX CDD		14.50
ac VHT80 4TX CDD		11.72

# **UNII-2C BAND**

IEEE Std. 802.11	Frequency (MHz)	Max Power (dBm)
a 20 4TX CDD		15.04
HT20 4TX CDD	5470 ~ 5725	Covered by 802.11ac VHT20 4TX CDD
HT40 4TX CDD		Covered by 802.11ac VHT40 4TX CDD
ac VHT20 4TX CD		15.15
ac VHT40 4TX CDD		15.33
ac VHT80 4TX CDD		12.89

# **UNII-3 BAND**

IEEE Std. 802.11	Frequency (MHz)	Max Power (dBm)
a 20 4TX CDD		16.87
HT20 4TX CDD	F70F F0F0	Covered by 802.11ac VHT20 4TX CDD
HT40 4TX CDD		Covered by 802.11ac VHT40 4TX CDD
ac VHT20 4TX CD	5725 ~ 5850	17.19
ac VHT40 4TX CDD		16.76
ac VHT80 4TX CDD		17.00



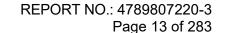
# 5.3. CHANNEL LIST

UNI	I-1	UNII-1		UN	II-1
(For Bandwidt	th = 20 MHz)	0 MHz)   (For Bandwidth = 40		(For Bandwid	th = 80 MHz)
Channel	Frequency (MHz)	Channel Frequency (MHz)		Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII	UNII-2A UNII-		I-2A	UNI	I-2A
(For Bandwidt	(For Bandwidth = 20 MHz)		Ith = 40 MHz)	(For Bandwid	th = 80 MHz)
Channel	Frequency (MHz)	Channel Frequency (MHz)		Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

_	UNII-2C (For Bandwidth = 20 MHz)		I-2C	_	I-2C
(FOI Balluwiui	· · · · · · · · · · · · · · · · · · ·	(FOI DallOWIC	<u>lth = 40 MHz)</u>	(For Bandwid	,
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	/	/
112	5560	126	5630		
116	5580	134	5670		
120	5600	/	1		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
1	1				

UNI		UNII-3		UN	-
(For Bandwidt	th = 20 MHz)	20 MHz)   (For Bandwid		(For Bandwid	th = 80 MHz)
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				





5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency (MHz)	P/N	Antenna Type	Max Antenna Gain (dBi)
1	5180~5825	RFPCA630715IM5B301	PCB antenna	5.09
2	5180~5825	RFPCA630710IM5B301	PCB antenna	5.30
3	5180~5825	RFPCA453310IMLB301	PCB antenna	4.70
4	5180~5825	RFPCA470910IMLB302	PCB antenna	4.59

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing was performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following mothed.

For output power measurements:

Directional gain= GANT + Array Gain = 5.3 dBi

G<sub>ANT</sub>: equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for N<sub>ANT</sub> ≤ 4

For power spectral density (PSD) measurements:

Directional gain= Gant + Array Gain = 11.32 dBi

Array Gain = 10 log(Nant/Nss) dB. Nant : number of transmit antennas

Nss: number of spatial streams, The worst case directional gain will occur when Nss = 1

Note: The value of the antenna gain was declared by customer.

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	⊠4TX, 4RX	ANT 1, 2, 3, 4 can be used as transmitting/receiving antenna.
802.11n HT20	⊠4TX, 4RX	ANT 1, 2, 3, 4 can be used as transmitting/receiving antenna.
802.11n HT40	⊠4TX, 4RX	ANT 1, 2, 3, 4 can be used as transmitting/receiving antenna.
802.11ac VHT20	⊠4TX, 4RX	ANT 1, 2, 3, 4 can be used as transmitting/receiving antenna.
802.11ac VHT40	⊠4TX, 4RX	ANT 1, 2, 3, 4 can be used as transmitting/receiving antenna.
802.11ac VHT80	⊠4TX, 4RX	ANT 1, 2, 3, 4 can be used as transmitting/receiving antenna.



# 5.5. THE WORSE CASE POWER SETTING PARAMETER

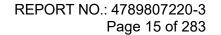
The Worse Case Power Setting Parameter		
Test Software	QA tool	

# UNII-1

Mode	Rate	Channel	Soft set value
Mode			4 TX
		36	03
11a	6M	40	03
		48	03
	MCS0	36	03
11ac VHT20		40	02
		48	02
11ac VHT40	MCS0	38	05
		46	05
11ac VHT80	MCS0	42	06

### UNII-2A

<u> </u>				
Mode	Rate	Channel	Soft set value	
			4 TX	
		52	0C	
11a	6M	60	0C	
		64	0C	
		52	0C	
11ac VHT20	MCS0	60	0C	
		64	0C	
11ac VHT40	MCS0	54	0D	
		62	0D	
11ac VHT80	MCS0	58	08	





UNII-2C

Mode	Rate	Channel	Soft set value
Wiode		Channel	4 TX
		100	0D
11a	6M	120	0D
		140	0D
	MCS0	100	0D
11ac VHT20		120	0D
		140	0D
	MCS0	102	0E
11ac VHT40		118	0E
		134	0E
11ac VHT80	MCS0	106	08
		122	08

#### UNII-3

	OI VIII O		Soft set value
Mode	Rate	Channel	4 TX
		149	12
11a	6M	157	12
		165	12
		149	12
11ac VHT20	MCS0	157	12
		165	12
11ac VHT40	MCCO	151	12
	MCS0	159	12
11ac VHT80	MCS0	155	12



#### 5.6. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.6.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0 802.11ac VHT20 mode: MCS0 802.11ac VHT40 mode: MCS0 802.11ac VHT80 mode: MCS0

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages, so for these 4 modes, only 802.11n HT20 and 802.11n HT40 worst case power modes test data are recorded in the report .

The EUT has 4 separate antennas which correspond to 4 separate antenna ports. Core 1, Core 2, Core 3 and Core 4 correspond to antenna 1, antenna 2, antenna 3, and antenna 4 respectively.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

The EUT support Cyclic Shift Diversity(CDD), They use the same conducted power per chain in any given mode, so we only chose the worst-case mode CDD 4TX for final testing.



# 5.7. DESCRIPTION OF TEST SETUP

### **SUPPORT EQUIPMENT**

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	ThinkPad E480	/
2	Power Adapter	N/A	RD1201500- C55-153MG	Input: 100-240 V ~ 50/60 Hz, 0.6 A Output: 12 V=== 1.5 A
3	USB Disk	Kingston	DataTraveler 100 G3	USB 3.0, 32 GB
4	RJ45 Terminal load	Adafruit	485-4511	/

### **I/O CABLES**

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	RJ 45 Cable	Unshielded	NO	1.0 m	1
2	RJ 45 Cable	Unshielded	NO	1.0 m	1
3	RJ 45 Cable	Unshielded	NO	1.0 m	/

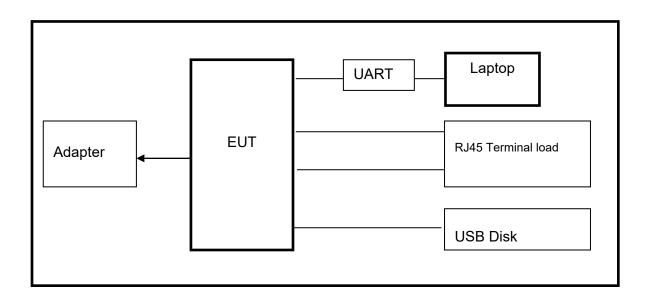
### **ACCESSORIES**

Item	Accessory	Brand Name	Model Name	Description
1	/	1	1	/

# **TEST SETUP**

The EUT can work in engineering mode with a software.

### **SETUP DIAGRAM FOR TESTS**





6. MEASURING INSTRUMENT AND SOFTWARE USED

O. WILASUKII	Conducted Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021		
Two-Line V- Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021		
		Sot	tware				
[	Description		Manufacturer	Name	Version		
Test Software t	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1		
		Radiated	Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021		
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021		
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021		
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021		
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021		
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Nov. 20, 2020	Nov. 19, 2021		
Horn Antenna	Schwarzbeck	BBHA9170	#691	Aug. 11, 2018	Aug. 11, 2021		
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Nov. 12, 2020	Nov. 11, 2021		
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Nov. 12, 2020	Nov. 11, 2021		
Loop antenna	Schwarzbeck	1519B	80000	Jan.17, 2019	Jan.17,2022		
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Nov. 12, 2020	Nov. 11, 2021		
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021		
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Nov. 12, 2020	Nov. 11, 2021		
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Nov. 12, 2020	Nov. 11, 2021		
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Nov. 12, 2020	Nov. 11, 2021		



Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV20- 5440-5470- 5725-5755- 60SS	1	Nov. 12, 2020	Nov. 11, 2021
S			ftware		
Description		Manufacturer	Name	Version	
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Tonsend RF Test System							
Equipment	Manufacturer	Мо	odel No.	Serial No.	Last	Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CI	MW500	155523	Nov.20	0,2020	Nov.19,2021
PXA Signal Analyzer	Keysight	Ν	9030A	MY55410512	Nov.20	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N	5182B	MY56200284	Nov.20	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N	5172B	MY56200301	Nov.20	0,2020	Nov.19,2021
DC power supply	Keysight	Е	3642A	MY55159130	Nov.24	4,2020	Nov.23,2021
Temperature & Humidity Chamber	SANMOOD S		-80-CC-2	2088	Nov.20	0,2020	Nov.19,2021
Software							
Description	Manufacturer		Name		•	Version	
Tonsend SRD Test Syste	m Tonsend	ł	JS1120	-3 RF Test Sys	stem	2.6	3.77.0518

Other Instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Dual Channel Power Meter	Keysight	N1912A	MY55416024	Nov. 20, 2020	Nov. 19, 2021
Power Sensor	Keysight	USB Wideband Power Sensor	MY5100022	Nov. 20, 2020	Nov. 19, 2021



7. ANTENNA PORT TEST RESULTS

# 7.1. ON TIME AND DUTY CYCLE

#### **LIMITS**

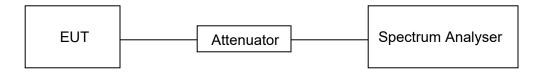
None; for reporting purposes only.

#### **PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  EBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	25.5 °C	Relative Humidity	59 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120V,60Hz

#### **RESULTS**

Please refer to appendix D.



7.2. 6/26 dB EMISSION BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

### **LIMITS**

CFR 47 FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)		
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250		
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350		
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725		
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850		
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825		

#### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: ≥ 3*RBW For 26 dB Bandwidth: > RBW For 99 % Bandwidth: >3*RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.



#### Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:

For Example: Fundamental Frequency: 5720 MHz

99 % OBW: 21.00 MHz

Turning Frequency: 5725 MHz

99 % Bandwidth of UNII-2C Band Portion = (5725-(5720-(21.00/2)) = 15.50 MHz

99 % Bandwidth of UNII-3 Band Portion = (5720+(21.00/2)-5725) = 5.50 MHz

# Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = 5725-5710.16=14.84 MHz

#### Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

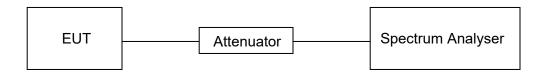
6 dB BW: 16.44 MHz

FL: 5711.76 MHz FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = 5728.2-5725=3.2 MHz

#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	25.5 °C	Relative Humidity	59 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120V,60Hz

#### **RESULTS**

Please refer to Appendix A1&A2&A3.



# 7.3. CONDUCTED OUTPUT POWER

# **LIMITS**

	CFR 47 FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)			
Conducted	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☐ Client Devices: 250 mW (24 dBm)	5150 ~ 5250			
Output Power	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725			
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850			

#### Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



#### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

# Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This ensures that bin-to-bin spacing is  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

### Method PM (Measurement using an RF average power meter):

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

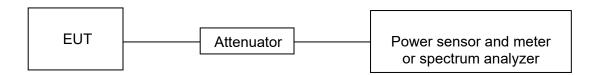
#### Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.



# **TEST SETUP**



### **TEST ENVIRONMENT**

Temperature	25.5 °C	Relative Humidity	59 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

### **RESULTS**

Please refer to Appendix B.

# 7.4. POWER SPECTRAL DENSITY

#### **LIMITS**

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☐ Client Devices: 11 dBm/MHz	5150 ~ 5250
Bonoity	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

#### Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.



Connect the EUT to the spectrum analyser and use the following settings:

### For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

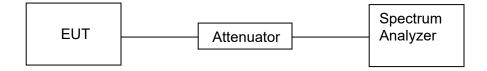
#### For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	25.5 °C	Relative Humidity	59 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

### **RESULTS**

Please refer to Appendix C.



# 8. RADIATED TEST RESULTS

### **LIMITS**

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Field Strength Limit	Field Stren	
(MHz)	(uV/m) at 3 m	(dBuV/m)	
		Quasi-l	Peak
30 - 88	100	40	
88 - 216	150	43.	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (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



FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. <sup>2</sup>Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range	EIRP Limit	Field Strength Limit
(MHz)	EIRP LIIIII	(dBuV/m) at 3 m
5150~5250 MHz		
5250~5350 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBµV/m)
5470~5725 MHz		
	PK: -27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1
5725~5850 MHz	PK: 10 (dBm/MHz) *2	PK: 105.2 (dBµV/m) *2
	PK: 15.6 (dBm/MHz) *3	PK: 110.8(dBµV/m) *3
	PK: 27 (dBm/MHz) *4	PK: 122.2 (dBµV/m) *4
Al (		

#### Note:

<sup>\*1</sup> beyond 75 MHz or more above of the band edge.

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

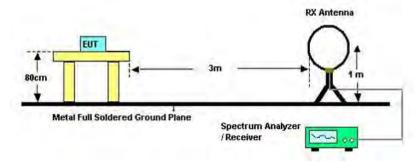
<sup>\*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

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



#### **TEST SETUP AND PROCEDURE**

#### Below 30 MHz



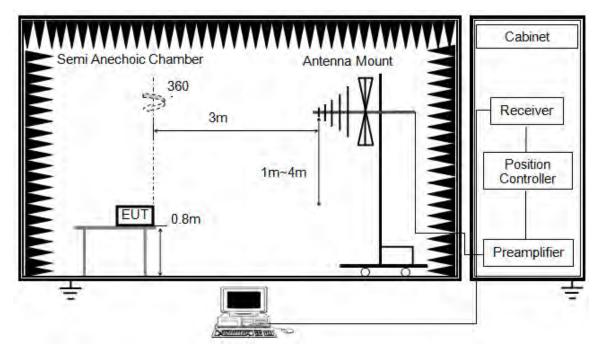
#### The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377  $\Omega$ . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



Below 1 GHz and above 30 MHz



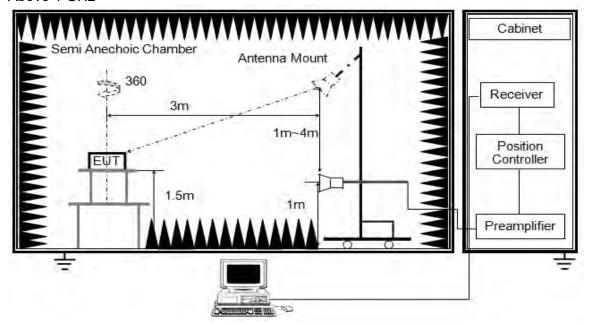
The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



Above 1 GHz



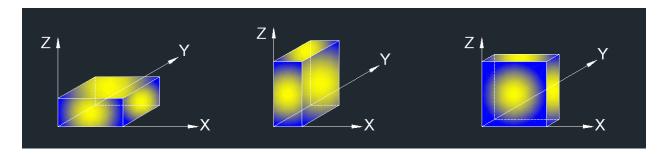
The setting of the spectrum analyser

RBW	1 MHz
IVRW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

### **TEST ENVIRONMENT**

Temperature	25.5 °C	Relative Humidity	59 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

### **RESULTS**



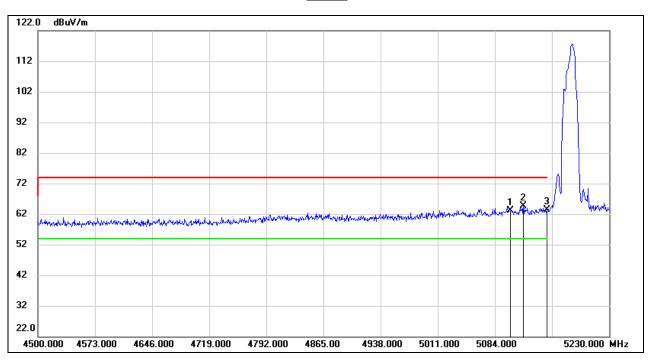
# 8.1. RESTRICTED BANDEDGE

#### 8.1.1. 802.11a CDD 4TX MODE

#### **UNII-1 BAND**

#### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

# **PEAK**



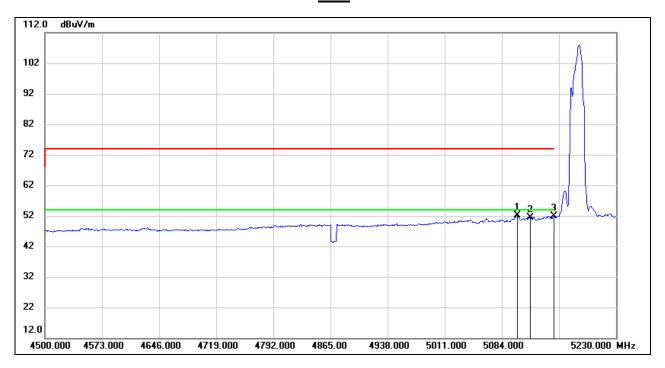
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5103.710	22.39	40.78	63.17	74.00	-10.83	peak
2	5120.500	23.65	40.92	64.57	74.00	-9.43	peak
3	5150.000	22.17	41.19	63.36	74.00	-10.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### **AVG**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5103.710	11.40	40.78	52.18	54.00	-1.82	AVG
2	5120.500	10.37	40.92	51.29	54.00	-2.71	AVG
3	5150.000	10.58	41.19	51.77	54.00	-2.23	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

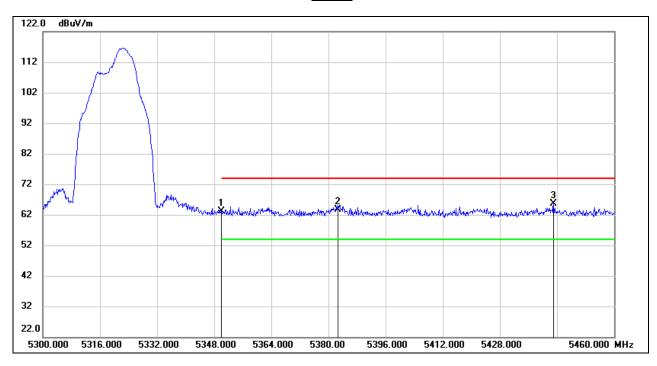
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



# **UNII-2A BAND**

# RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

# **PEAK**



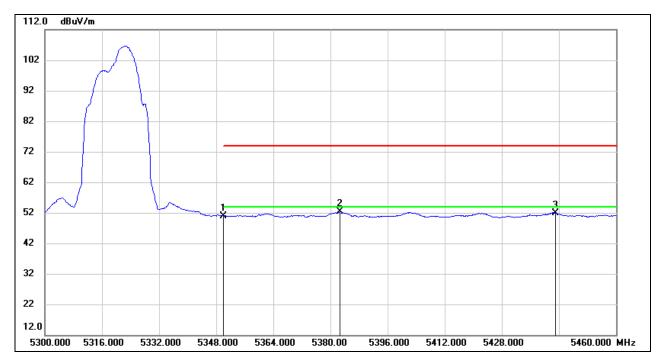
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	22.01	41.20	63.21	74.00	-10.79	peak
2	5382.720	22.15	41.39	63.54	74.00	-10.46	peak
3	5443.040	23.86	41.72	65.58	74.00	-8.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## <u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	9.79	41.20	50.99	54.00	-3.01	AVG
2	5382.720	10.91	41.39	52.30	54.00	-1.70	AVG
3	5443.040	10.27	41.72	51.99	54.00	-2.01	AVG

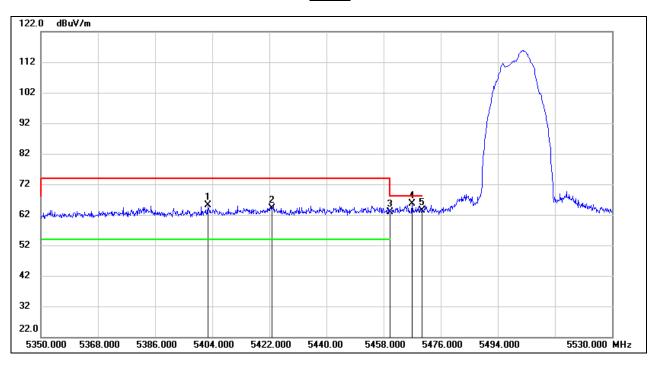
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### **UNII-2C BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

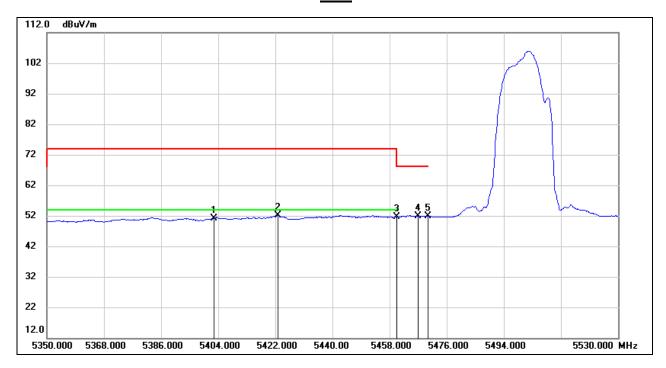
### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5402.560	23.64	41.49	65.13	74.00	-8.87	peak
2	5422.900	22.58	41.61	64.19	74.00	-9.81	peak
3	5460.000	20.94	41.82	62.76	68.20	-5.44	peak
4	5467.000	23.71	41.86	65.57	68.20	-2.63	peak
5	5470.000	21.46	41.87	63.33	68.20	-4.87	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





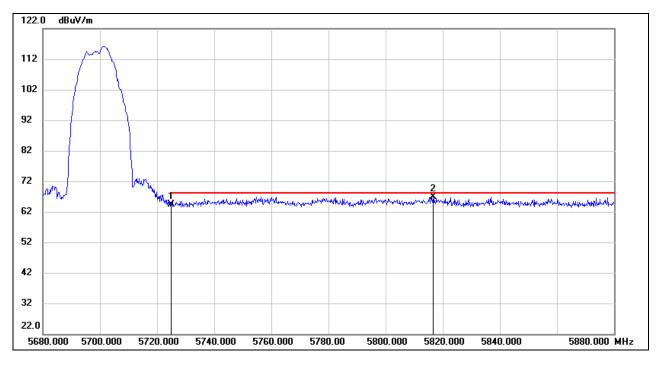
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5402.560	9.52	41.49	51.01	54.00	-2.99	AVG
2	5422.900	10.58	41.61	52.19	54.00	-1.81	AVG
3	5460.000	9.71	41.82	51.53	54.00	-2.47	AVG
4	5467.000	9.97	41.86	51.83	68.20	-16.37	AVG
5	5470.000	10.10	41.87	51.97	68.20	-16.23	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

## **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	22.66	41.67	64.33	68.20	-3.87	peak
2	5816.600	24.74	42.19	66.93	68.20	-1.27	peak

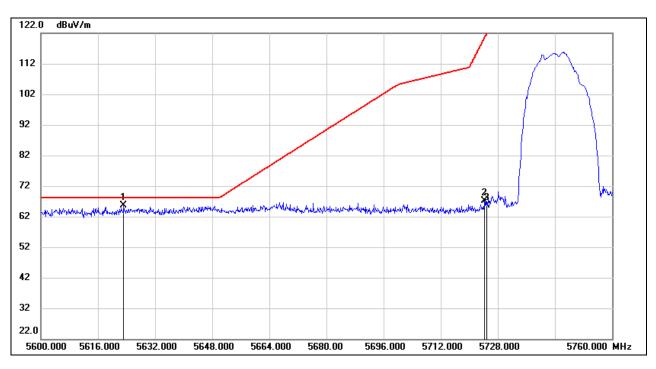
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### **UNII-3 BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

## **PEAK**



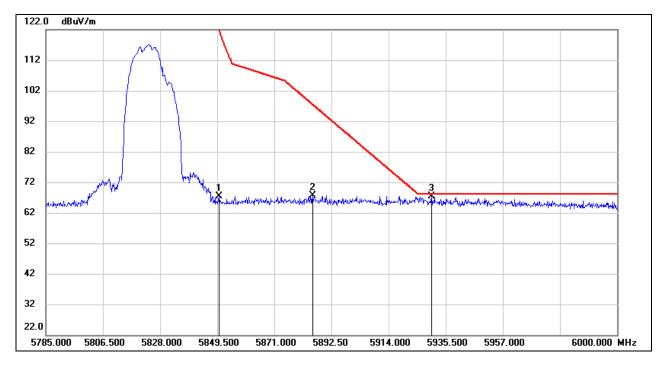
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5623.200	24.04	41.69	65.73	68.20	-2.47	peak
2	5724.320	25.46	41.67	67.13	120.65	-53.52	peak
3	5725.000	23.88	41.67	65.55	122.20	-56.65	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



#### RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	24.88	42.52	67.40	122.20	-54.80	peak
2	5885.405	24.81	42.88	67.69	97.47	-29.78	peak
3	5930.125	24.54	42.89	67.43	68.20	-0.77	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

Note: Both horizontal and vertical had been tested, but only the worst data was recorded in the report.

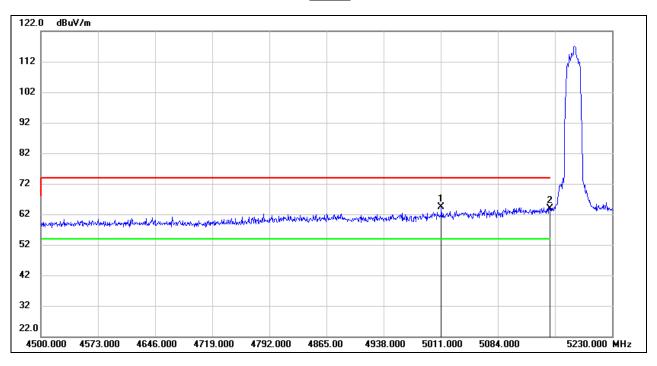


## 8.1.2. 802.11ac VHT20 CDD 4TX MODE

### **UNII-1 BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

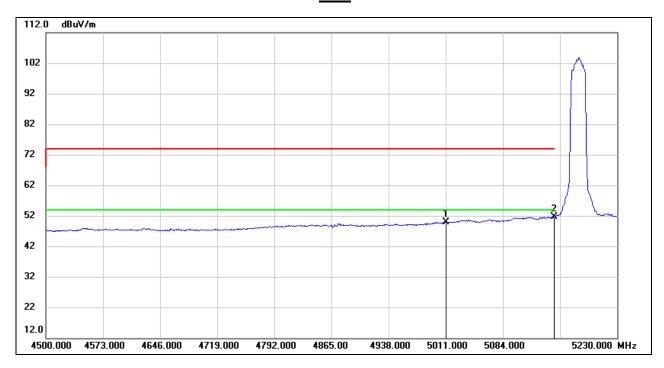
## **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5011.730	23.47	40.98	64.45	74.00	-9.55	peak
2	5150.000	22.62	41.19	63.81	74.00	-10.19	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5011.730	8.83	40.98	49.81	54.00	-4.19	AVG
2	5150.000	10.53	41.19	51.72	54.00	-2.28	AVG

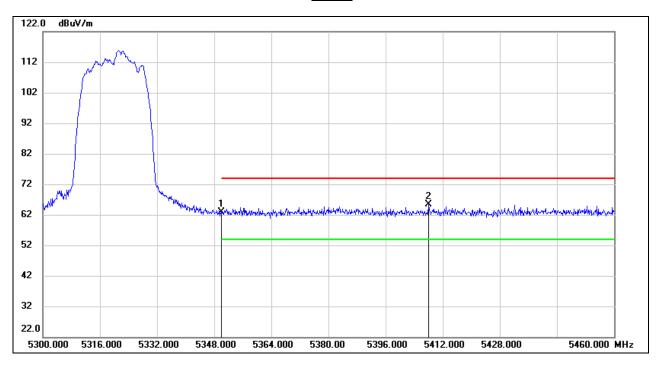
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



#### **UNII-2A BAND**

## RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

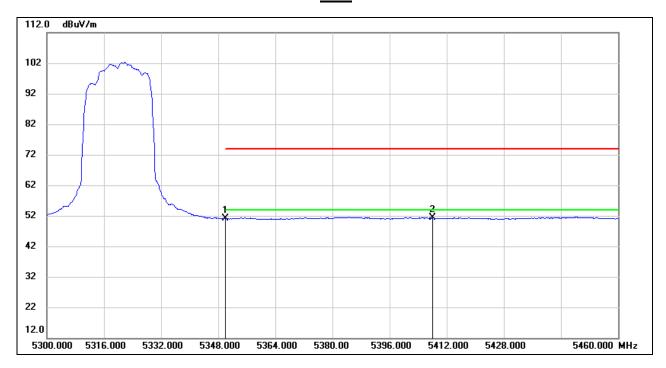
### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	21.77	41.20	62.97	74.00	-11.03	peak
2	5408.000	23.78	41.53	65.31	74.00	-8.69	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	9.86	41.20	51.06	54.00	-2.94	AVG
2	5408.000	9.75	41.53	51.28	54.00	-2.72	AVG

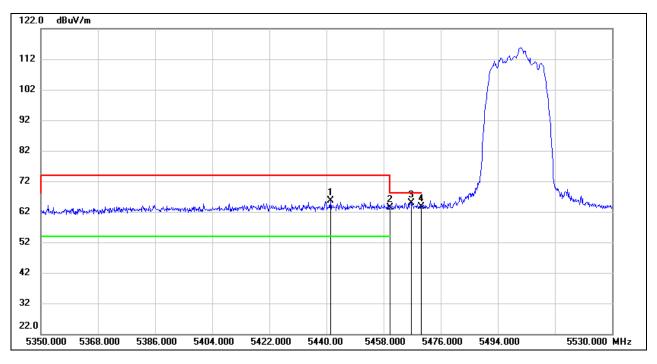
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### **UNII-2C BAND**

# RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

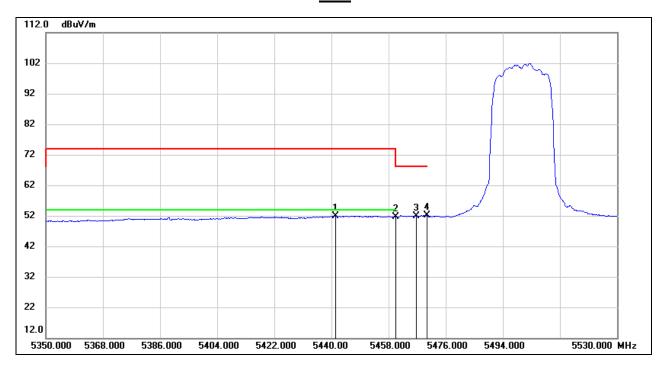
## **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5441.260	23.83	41.72	65.55	74.00	-8.45	peak
2	5460.000	21.56	41.82	63.38	68.20	-4.82	peak
3	5466.640	23.01	41.86	64.87	68.20	-3.33	peak
4	5470.000	21.70	41.87	63.57	68.20	-4.63	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





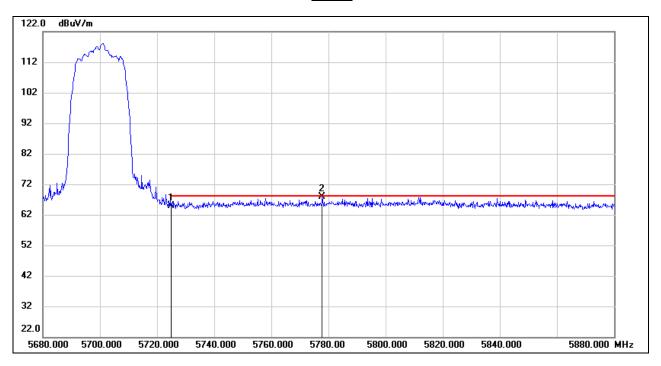
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5441.260	10.13	41.72	51.85	54.00	-2.15	AVG
2	5460.000	9.75	41.82	51.57	54.00	-2.43	AVG
3	5466.640	10.06	41.86	51.92	68.20	-16.28	AVG
4	5470.000	10.14	41.87	52.01	68.20	-16.19	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	23.30	41.67	64.97	68.20	-3.23	peak
2	5777.800	26.01	41.91	67.92	68.20	-0.28	peak

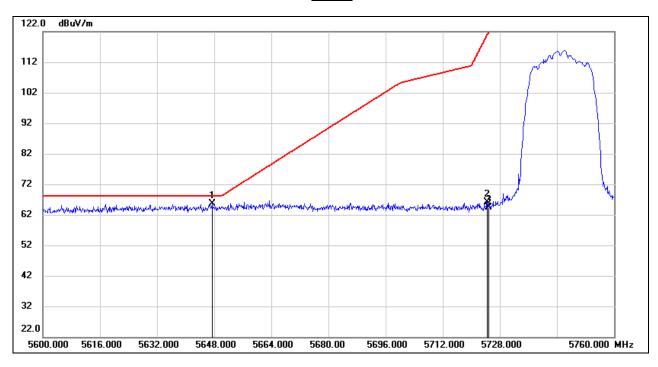
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### **UNII-3 BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

### **PEAK**



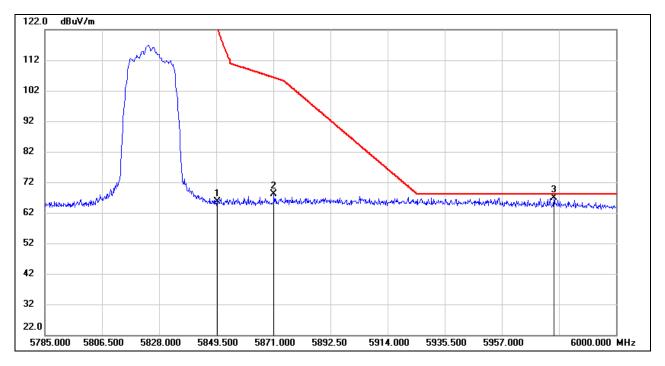
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5647.360	24.02	41.65	65.67	68.20	-2.53	peak
2	5724.480	24.41	41.67	66.08	121.01	-54.93	peak
3	5725.000	22.75	41.67	64.42	122.20	-57.78	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



#### RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

#### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	23.00	42.52	65.52	122.20	-56.68	peak
2	5871.215	25.42	42.74	68.16	106.26	-38.10	peak
3	5976.565	24.25	42.67	66.92	68.20	-1.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

Note: Both horizontal and vertical had been tested, but only the worst data was recorded in the report.

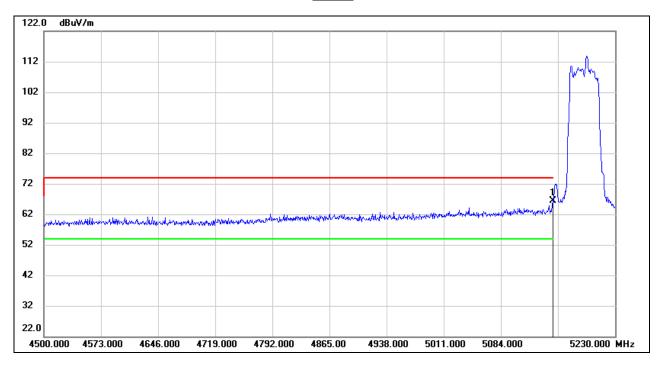


### 8.1.3. 802.11ac VHT40 CDD 4TX MODE

### **UNII-1 BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

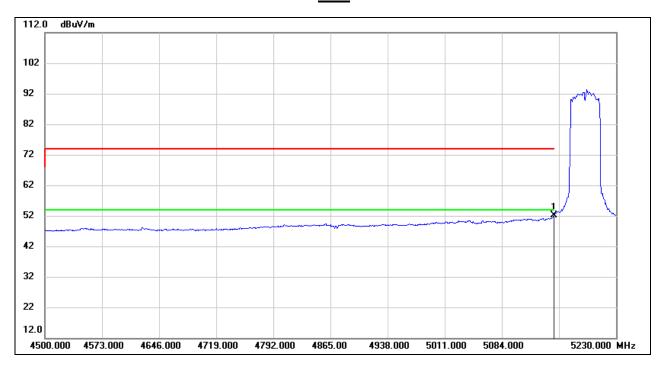
### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	25.07	41.19	66.26	74.00	-7.74	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





I	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
ĺ		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
ĺ	1	5150.000	10.93	41.19	52.12	54.00	-1.88	AVG

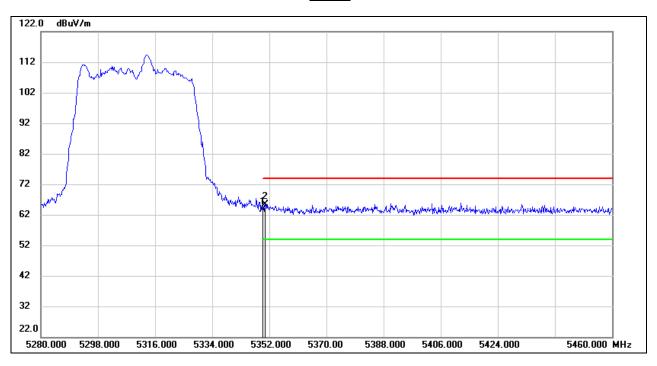
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



#### **UNII-2A BAND**

## RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

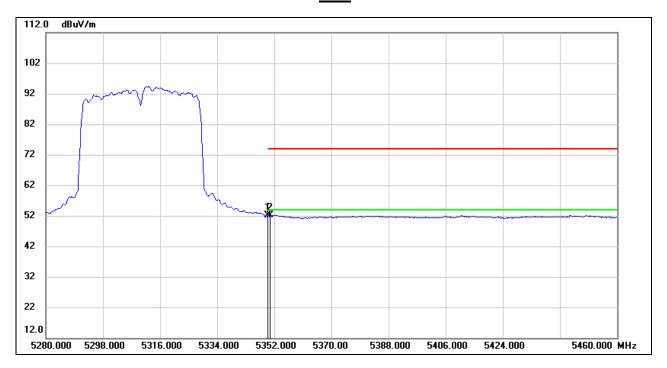
### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	22.33	41.20	63.53	74.00	-10.47	peak
2	5350.740	24.17	41.21	65.38	74.00	-8.62	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	10.82	41.20	52.02	54.00	-1.98	AVG
2	5350.740	10.82	41.21	52.03	54.00	-1.97	AVG

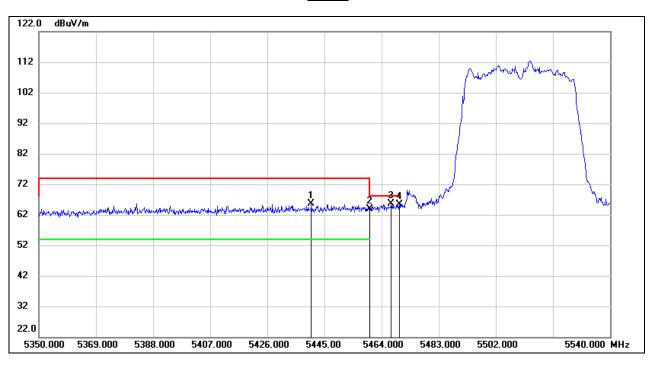
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### **UNII-2C BAND**

## RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

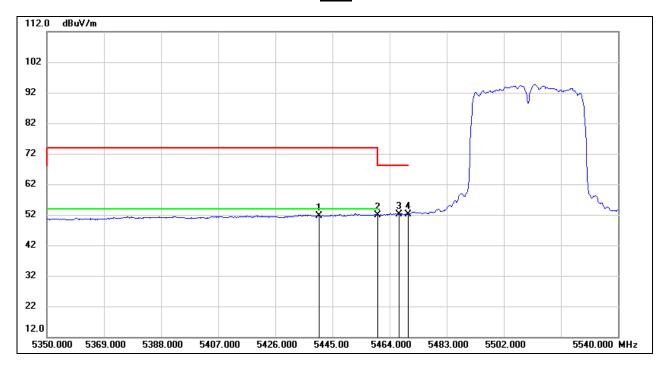
### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5440.630	24.04	41.71	65.75	74.00	-8.25	peak
2	5460.000	22.12	41.82	63.94	68.20	-4.26	peak
3	5467.230	23.82	41.86	65.68	68.20	-2.52	peak
4	5470.000	23.55	41.87	65.42	68.20	-2.78	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





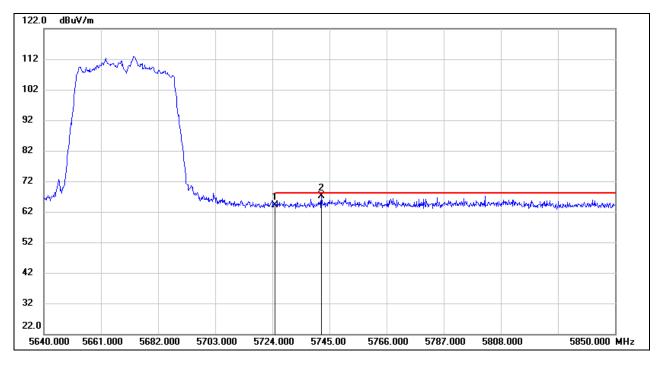
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5440.630	9.94	41.71	51.65	54.00	-2.35	AVG
2	5460.000	10.03	41.82	51.85	54.00	-2.15	AVG
3	5467.230	10.22	41.86	52.08	68.20	-16.12	AVG
4	5470.000	10.37	41.87	52.24	68.20	-15.96	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

## **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	22.48	41.67	64.15	68.20	-4.05	peak
2	5742.060	25.48	41.75	67.23	68.20	-0.97	peak

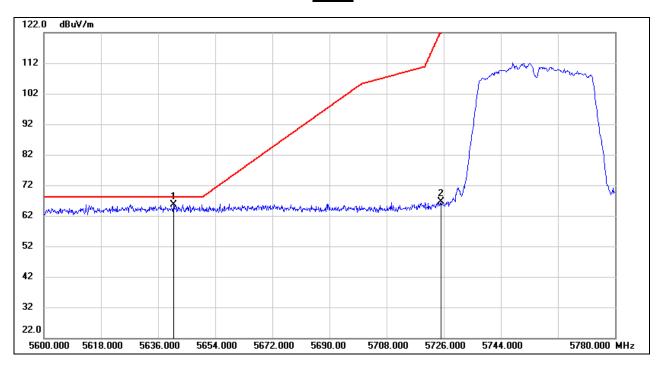
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## **UNII-3 BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

### **PEAK**



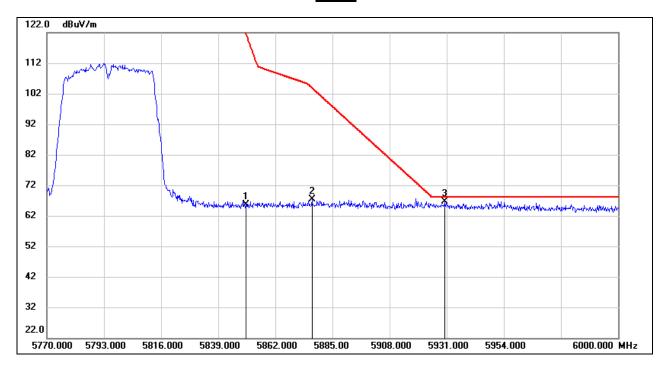
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5640.860	24.08	41.66	65.74	68.20	-2.46	peak
2	5725.000	25.00	41.67	66.67	122.20	-55.53	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

#### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	23.15	42.52	65.67	122.20	-56.53	peak
2	5876.720	24.58	42.79	67.37	103.92	-36.55	peak
3	5930.310	23.79	42.89	66.68	68.20	-1.52	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

Note: Both horizontal and vertical had been tested, but only the worst data was recorded in the report.

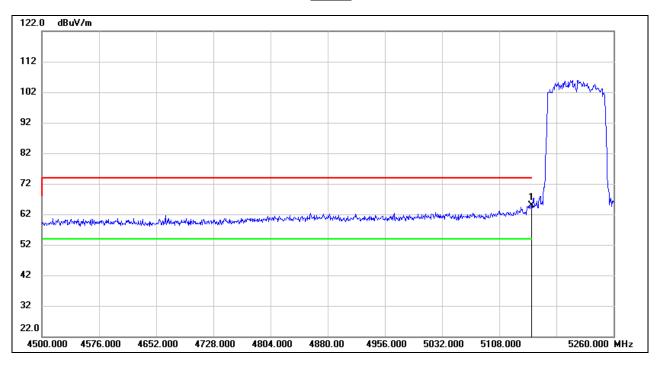


### 8.1.4. 802.11ac VHT80 CDD 4TX MODE

### **UNII-1 BAND**

### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

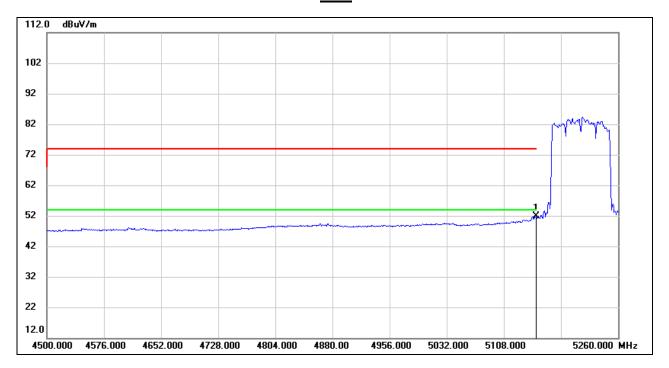
## **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	23.74	41.19	64.93	74.00	-9.07	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





I	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
ĺ		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
ĺ	1	5150.000	10.61	41.19	51.80	54.00	-2.20	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

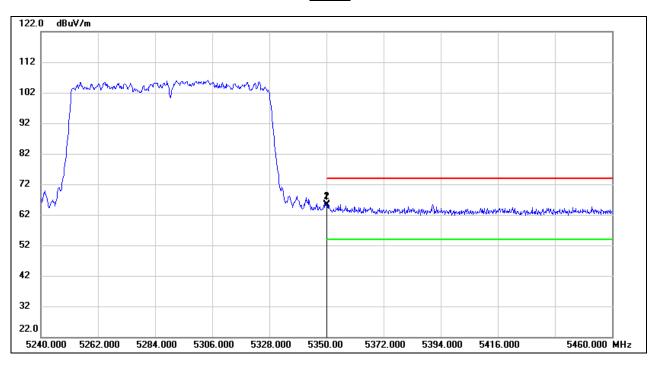
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#### **UNII-2A BAND**

## RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

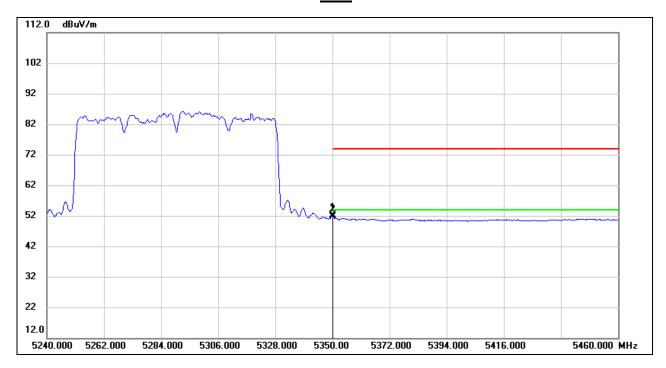
### **PEAK**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	23.96	41.20	65.16	74.00	-8.84	peak
2	5350.220	24.28	41.21	65.49	74.00	-8.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	10.82	41.20	52.02	54.00	-1.98	AVG
2	5350.220	10.50	41.21	51.71	54.00	-2.29	AVG

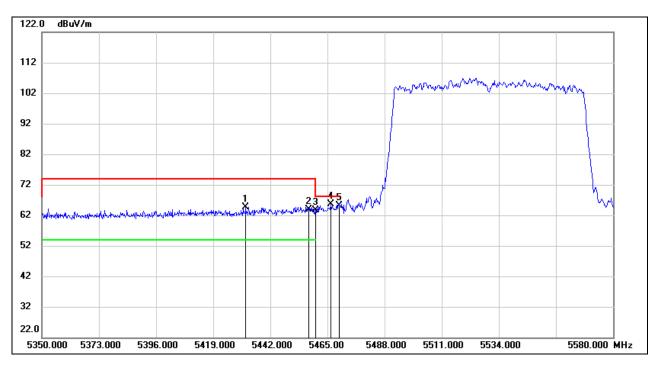
- 2. AVG: VBW=1/Ton where: ton is transmit duration.
- 3. For duty cycle, please refer to clause 7.1.
- 4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### **UNII-2C BAND**

## RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

### **PEAK**

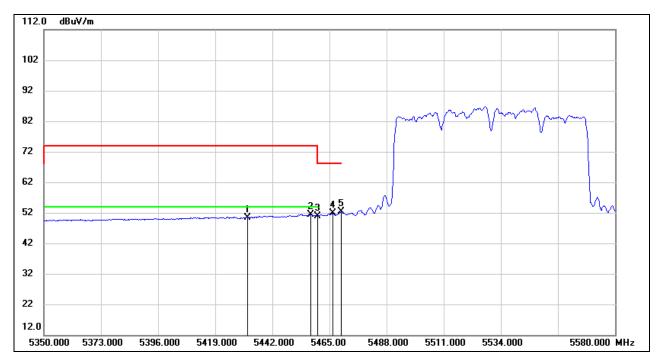


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5432.110	23.07	41.66	64.73	74.00	-9.27	peak
2	5457.410	22.17	41.81	63.98	74.00	-10.02	peak
3	5460.000	21.73	41.82	63.55	68.20	-4.65	peak
4	5466.380	23.75	41.86	65.61	68.20	-2.59	peak
5	5470.000	23.14	41.87	65.01	68.20	-3.19	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## <u>AVG</u>



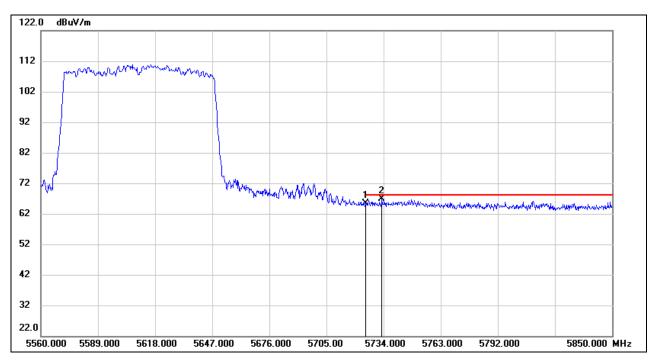
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5432.110	8.83	41.66	50.49	54.00	-3.51	AVG
2	5457.410	9.55	41.81	51.36	54.00	-2.64	AVG
3	5460.000	9.06	41.82	50.88	54.00	-3.12	AVG
4	5466.380	9.94	41.86	51.80	68.20	-16.40	AVG
5	5470.000	10.49	41.87	52.36	68.20	-15.84	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

### **PEAK**



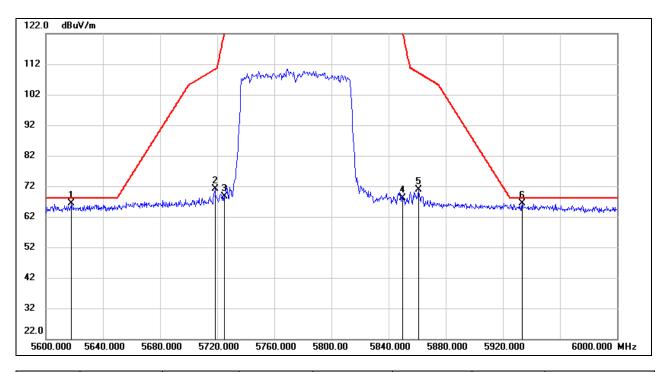
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	23.66	41.67	65.33	68.20	-2.87	peak
2	5733.130	25.17	41.71	66.88	68.20	-1.32	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## **UNII-3 BAND**

## RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5618.000	24.77	41.70	66.47	68.20	-1.73	peak
2	5718.400	29.43	41.63	71.06	110.35	-39.29	peak
3	5725.000	26.89	41.67	68.56	122.20	-53.64	peak
4	5850.000	25.62	42.52	68.14	122.20	-54.06	peak
5	5860.800	28.27	42.63	70.90	109.17	-38.27	peak
6	5933.600	23.44	42.87	66.31	68.20	-1.89	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

Note: Both horizontal and vertical had been tested, but only the worst data was recorded in the report.

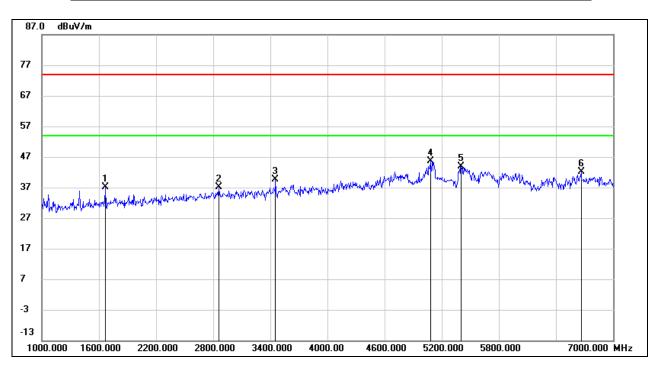


# 8.2. SPURIOUS EMISSIONS (1 GHz ~ 7 GHz)

#### 8.2.1. 802.11a CDD 4TX MODE

#### **UNII-1 BAND**

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

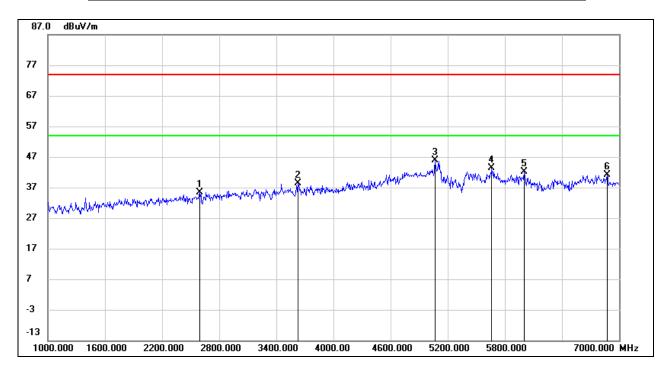


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1666.000	48.20	-11.06	37.14	74.00	-36.86	peak
2	2860.000	43.43	-6.26	37.17	74.00	-36.83	peak
3	3454.000	44.52	-4.89	39.63	74.00	-34.37	peak
4	5080.000	44.36	1.38	45.74	74.00	-28.26	peak
5	5404.000	42.11	1.89	44.00	74.00	-30.00	peak
6	6664.000	36.49	5.53	42.02	74.00	-31.98	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

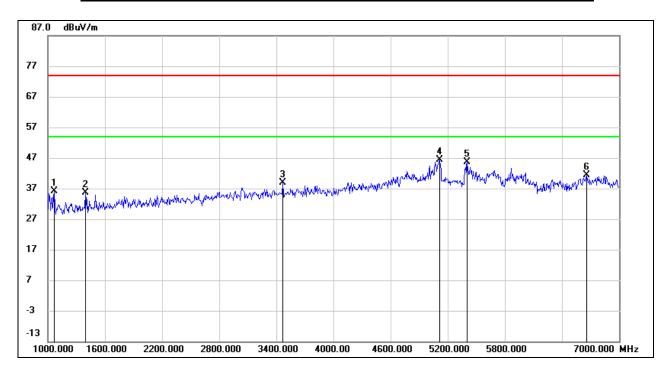


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2596.000	43.23	-7.88	35.35	74.00	-38.65	peak
2	3628.000	42.38	-4.05	38.33	74.00	-35.67	peak
3	5068.000	44.61	1.31	45.92	74.00	-28.08	peak
4	5662.000	40.79	2.47	43.26	74.00	-30.74	peak
5	6004.000	38.72	3.30	42.02	74.00	-31.98	peak
6	6874.000	35.42	5.78	41.20	74.00	-32.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

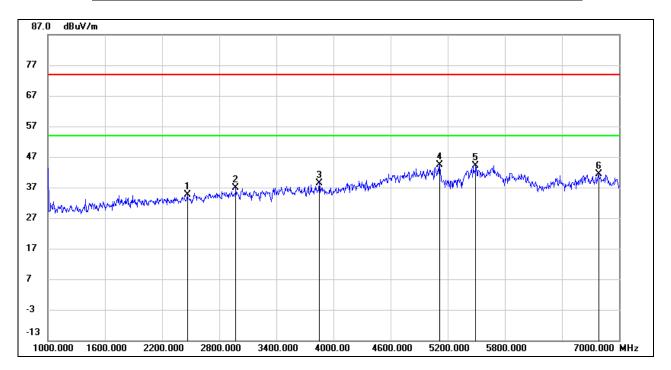


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1066.000	49.85	-13.65	36.20	74.00	-37.80	peak
2	1396.000	48.34	-12.71	35.63	74.00	-38.37	peak
3	3466.000	43.75	-4.85	38.90	74.00	-35.10	peak
4	5116.000	44.81	1.60	46.41	74.00	-27.59	peak
5	5404.000	43.78	1.89	45.67	74.00	-28.33	peak
6	6658.000	35.77	5.51	41.28	74.00	-32.72	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

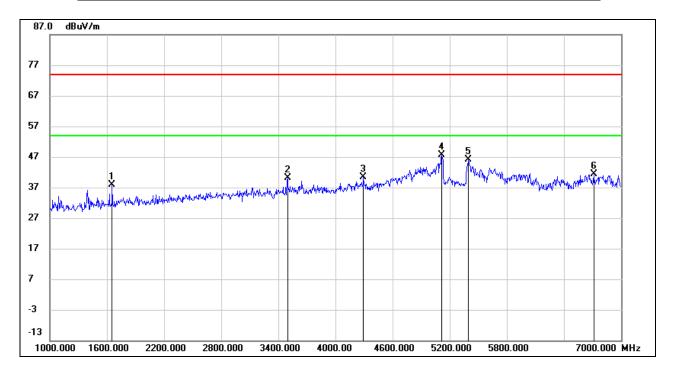


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2464.000	42.87	-8.27	34.60	74.00	-39.40	peak
2	2974.000	42.69	-5.71	36.98	74.00	-37.02	peak
3	3850.000	41.85	-3.35	38.50	74.00	-35.50	peak
4	5116.000	42.69	1.60	44.29	74.00	-29.71	peak
5	5494.000	42.00	2.14	44.14	74.00	-29.86	peak
6	6784.000	35.90	5.56	41.46	74.00	-32.54	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

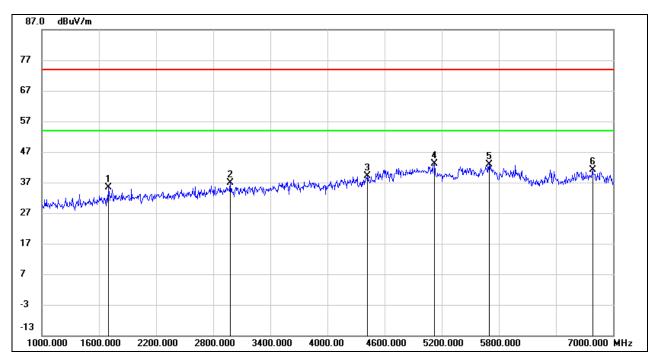


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1654.000	49.00	-11.15	37.85	74.00	-36.15	peak
2	3496.000	44.73	-4.72	40.01	74.00	-33.99	peak
3	4294.000	42.04	-1.76	40.28	74.00	-33.72	peak
4	5116.000	45.92	1.60	47.52	74.00	-26.48	peak
5	5398.000	44.30	1.88	46.18	74.00	-27.82	peak
6	6712.000	35.73	5.54	41.27	74.00	-32.73	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1696.000	46.10	-10.84	35.26	74.00	-38.74	peak
2	2980.000	42.58	-5.69	36.89	74.00	-37.11	peak
3	4420.000	40.89	-1.74	39.15	74.00	-34.85	peak
4	5122.000	41.39	1.64	43.03	74.00	-30.97	peak
5	5698.000	40.48	2.49	42.97	74.00	-31.03	peak
6	6784.000	35.68	5.56	41.24	74.00	-32.76	peak

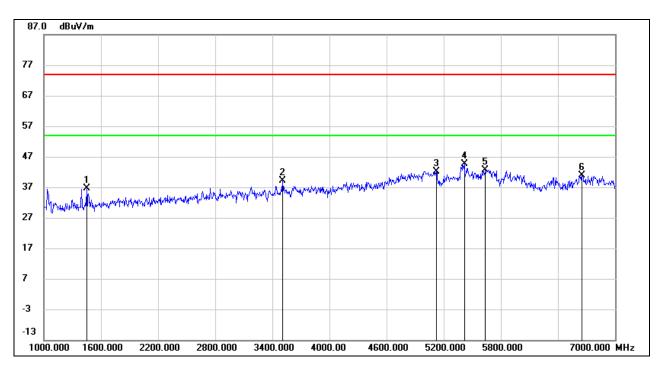
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### **UNII-2A BAND**

## TEST RESULTS (WORST CASE)

## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

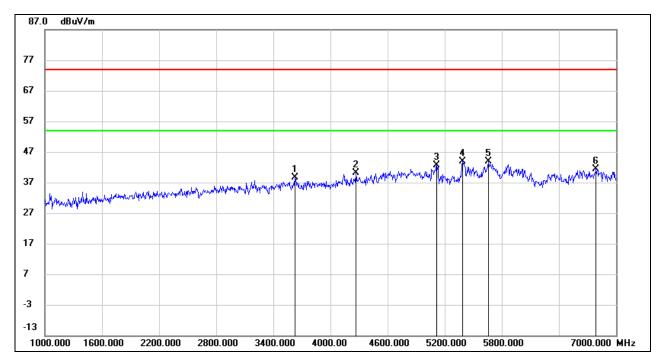


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1450.000	49.17	-12.46	36.71	74.00	-37.29	peak
2	3508.000	43.78	-4.67	39.11	74.00	-34.89	peak
3	5122.000	40.61	1.64	42.25	74.00	-31.75	peak
4	5416.000	42.60	1.92	44.52	74.00	-29.48	peak
5	5638.000	40.18	2.47	42.65	74.00	-31.35	peak
6	6652.000	35.31	5.52	40.83	74.00	-33.17	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

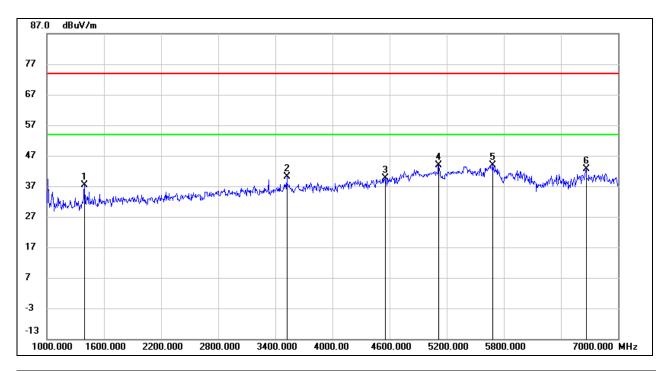


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3628.000	42.65	-4.05	38.60	74.00	-35.40	peak
2	4270.000	41.98	-1.73	40.25	74.00	-33.75	peak
3	5116.000	41.11	1.60	42.71	74.00	-31.29	peak
4	5386.000	41.92	1.89	43.81	74.00	-30.19	peak
5	5662.000	41.47	2.47	43.94	74.00	-30.06	peak
6	6790.000	35.83	5.57	41.40	74.00	-32.60	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

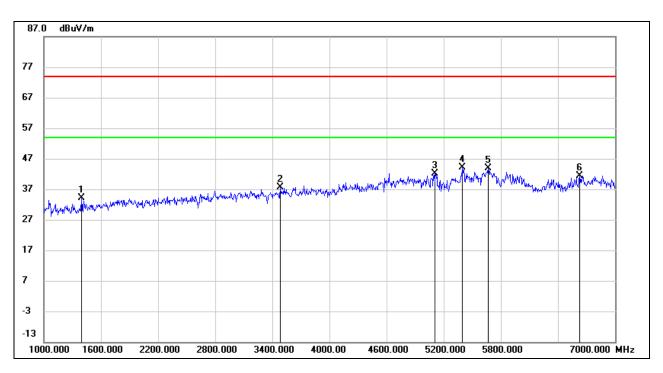


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	50.12	-12.71	37.41	74.00	-36.59	peak
2	3520.000	44.82	-4.61	40.21	74.00	-33.79	peak
3	4558.000	40.57	-0.84	39.73	74.00	-34.27	peak
4	5116.000	42.22	1.60	43.82	74.00	-30.18	peak
5	5686.000	41.50	2.47	43.97	74.00	-30.03	peak
6	6664.000	37.06	5.53	42.59	74.00	-31.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



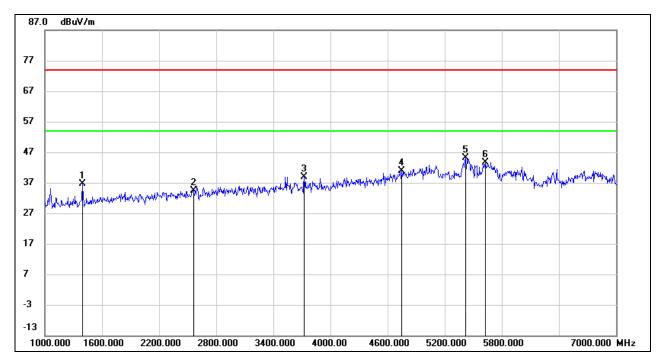
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	46.78	-12.71	34.07	74.00	-39.93	peak
2	3484.000	42.47	-4.77	37.70	74.00	-36.30	peak
3	5110.000	40.59	1.55	42.14	74.00	-31.86	peak
4	5398.000	42.29	1.88	44.17	74.00	-29.83	peak
5	5668.000	41.40	2.47	43.87	74.00	-30.13	peak
6	6628.000	35.94	5.50	41.44	74.00	-32.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



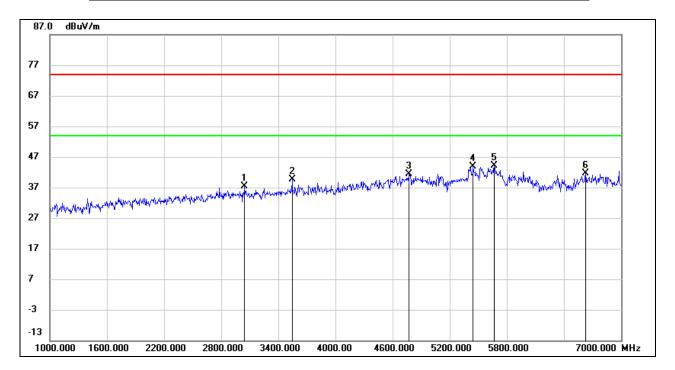


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	49.26	-12.71	36.55	74.00	-37.45	peak
2	2560.000	42.44	-8.00	34.44	74.00	-39.56	peak
3	3724.000	42.51	-3.61	38.90	74.00	-35.10	peak
4	4750.000	40.65	0.30	40.95	74.00	-33.05	peak
5	5416.000	43.26	1.92	45.18	74.00	-28.82	peak
6	5626.000	41.28	2.46	43.74	74.00	-30.26	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3046.000	42.90	-5.51	37.39	74.00	-36.61	peak
2	3544.000	44.11	-4.48	39.63	74.00	-34.37	peak
3	4774.000	40.99	0.43	41.42	74.00	-32.58	peak
4	5446.000	41.93	2.01	43.94	74.00	-30.06	peak
5	5668.000	41.69	2.47	44.16	74.00	-29.84	peak
6	6628.000	36.01	5.50	41.51	74.00	-32.49	peak

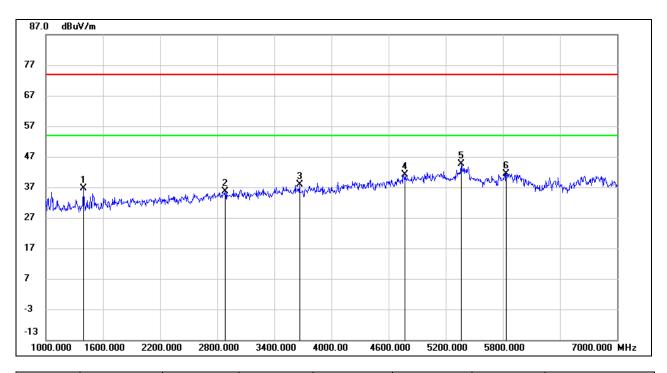
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### **UNII-2C BAND**

## TEST RESULTS (WORST CASE)

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

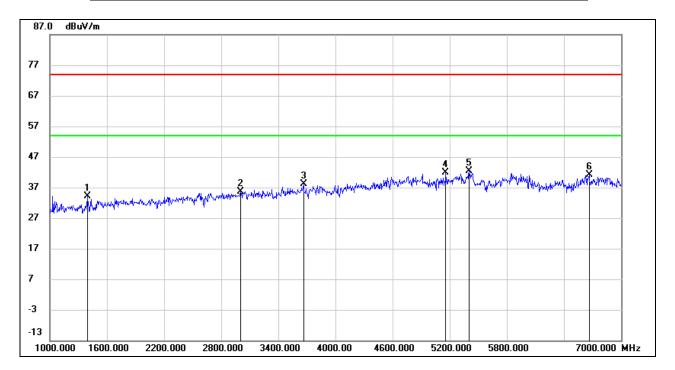


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	49.41	-12.71	36.70	74.00	-37.30	peak
2	2884.000	41.78	-6.15	35.63	74.00	-38.37	peak
3	3664.000	41.66	-3.89	37.77	74.00	-36.23	peak
4	4774.000	40.75	0.43	41.18	74.00	-32.82	peak
5	5362.000	42.80	1.91	44.71	74.00	-29.29	peak
6	5836.000	38.84	2.65	41.49	74.00	-32.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

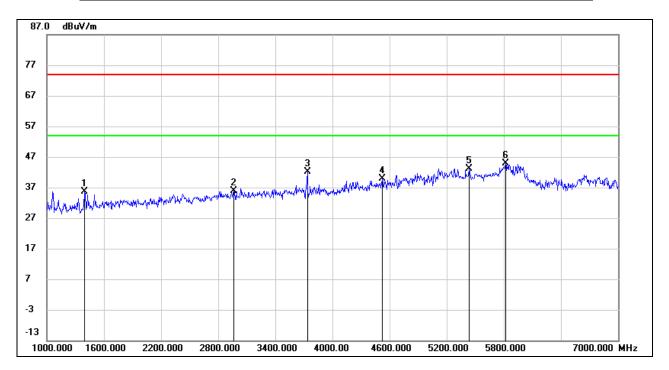


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	46.74	-12.71	34.03	74.00	-39.97	peak
2	3004.000	41.23	-5.59	35.64	74.00	-38.36	peak
3	3664.000	42.08	-3.89	38.19	74.00	-35.81	peak
4	5158.000	39.91	1.85	41.76	74.00	-32.24	peak
5	5404.000	40.37	1.89	42.26	74.00	-31.74	peak
6	6664.000	35.59	5.53	41.12	74.00	-32.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

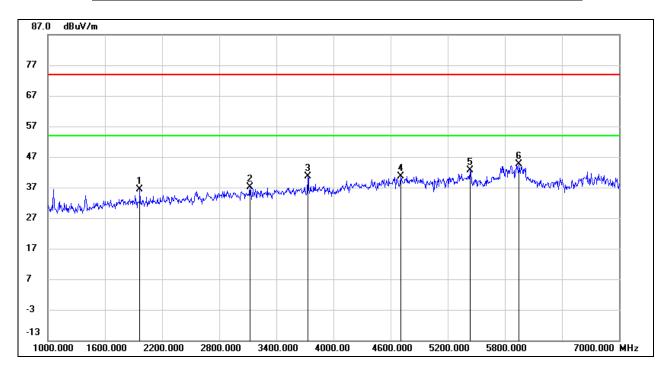


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	48.41	-12.71	35.70	74.00	-38.30	peak
2	2962.000	41.72	-5.78	35.94	74.00	-38.06	peak
3	3736.000	45.57	-3.56	42.01	74.00	-31.99	peak
4	4522.000	41.01	-1.09	39.92	74.00	-34.08	peak
5	5434.000	41.23	1.97	43.20	74.00	-30.80	peak
6	5818.000	42.30	2.57	44.87	74.00	-29.13	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

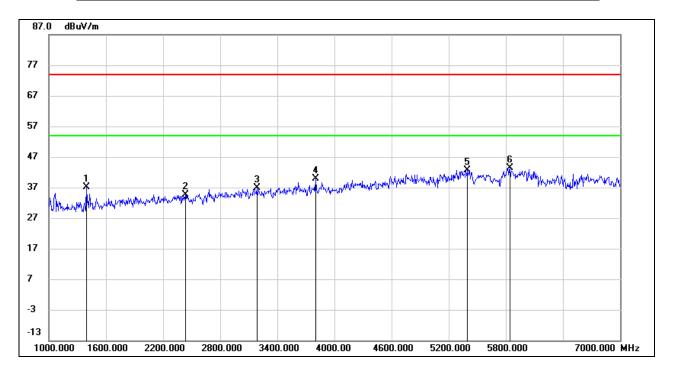


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1966.000	46.47	-10.16	36.31	74.00	-37.69	peak
2	3124.000	42.40	-5.38	37.02	74.00	-36.98	peak
3	3730.000	44.20	-3.58	40.62	74.00	-33.38	peak
4	4708.000	40.61	0.06	40.67	74.00	-33.33	peak
5	5434.000	40.66	1.97	42.63	74.00	-31.37	peak
6	5950.000	41.51	3.10	44.61	74.00	-29.39	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

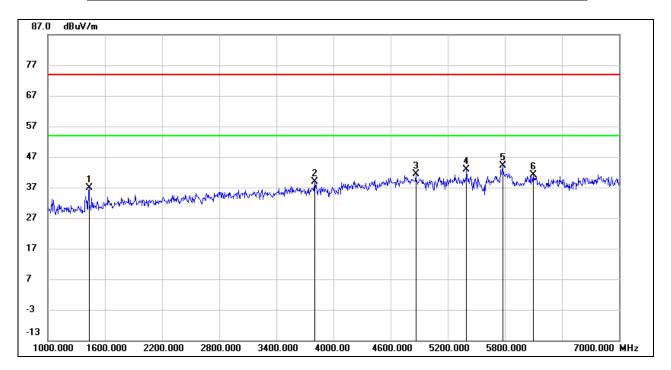


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1396.000	49.79	-12.71	37.08	74.00	-36.92	peak
2	2434.000	43.02	-8.33	34.69	74.00	-39.31	peak
3	3184.000	42.13	-5.28	36.85	74.00	-37.15	peak
4	3802.000	43.26	-3.27	39.99	74.00	-34.01	peak
5	5398.000	40.86	1.88	42.74	74.00	-31.26	peak
6	5842.000	40.59	2.67	43.26	74.00	-30.74	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1432.000	49.39	-12.55	36.84	74.00	-37.16	peak
2	3802.000	42.09	-3.27	38.82	74.00	-35.18	peak
3	4864.000	40.68	0.69	41.37	74.00	-32.63	peak
4	5398.000	41.04	1.88	42.92	74.00	-31.08	peak
5	5776.000	41.61	2.50	44.11	74.00	-29.89	peak
6	6100.000	37.79	3.28	41.07	74.00	-32.93	peak

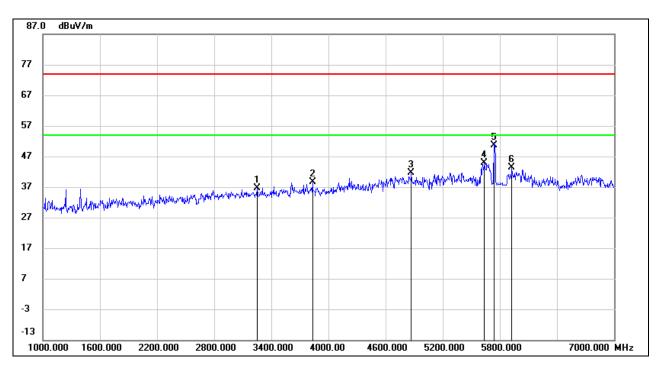
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## **UNII-3 BAND**

### **TEST RESULTS (WORST CASE)**

# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

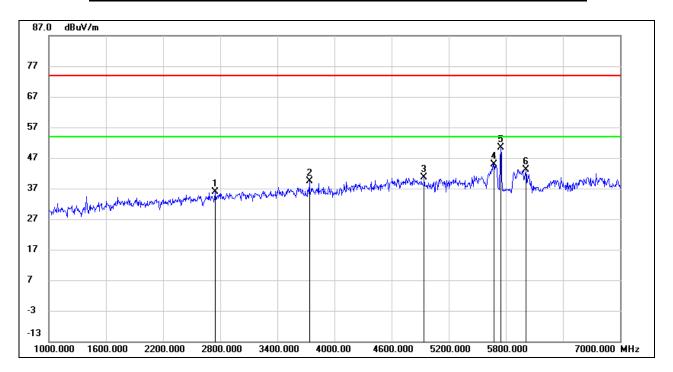


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3250.000	41.84	-5.22	36.62	74.00	-37.38	peak
2	3832.000	41.95	-3.32	38.63	74.00	-35.37	peak
3	4870.000	40.87	0.69	41.56	74.00	-32.44	peak
4	5638.000	42.50	2.47	44.97	74.00	-29.03	peak
5	5745.000	48.21	2.49	50.70	74.00	-23.30	peak
6	5926.000	40.45	3.01	43.46	74.00	-30.54	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

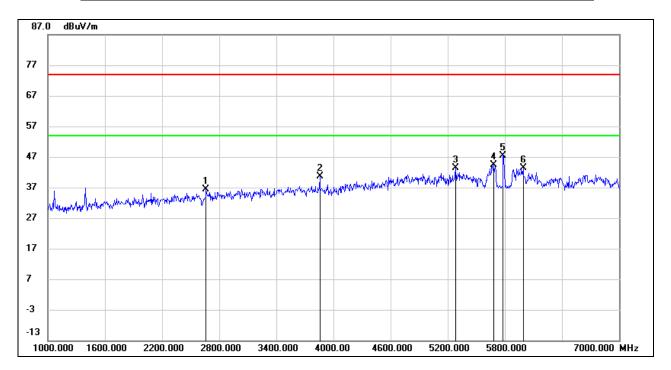


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2746.000	42.76	-6.90	35.86	74.00	-38.14	peak
2	3736.000	42.94	-3.56	39.38	74.00	-34.62	peak
3	4942.000	39.73	0.81	40.54	74.00	-33.46	peak
4	5674.000	42.50	2.48	44.98	74.00	-29.02	peak
5	5745.000	47.91	2.49	50.40	74.00	-23.60	peak
6	6010.000	39.76	3.31	43.07	74.00	-30.93	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

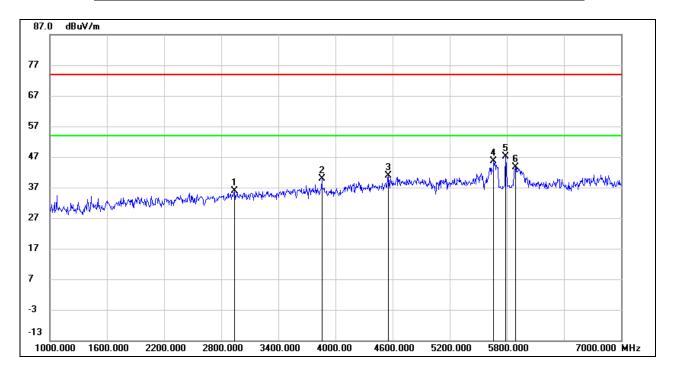


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2662.000	43.79	-7.46	36.33	74.00	-37.67	peak
2	3856.000	44.08	-3.36	40.72	74.00	-33.28	peak
3	5284.000	41.30	2.01	43.31	74.00	-30.69	peak
4	5686.000	41.98	2.47	44.45	74.00	-29.55	peak
5	5785.000	44.91	2.50	47.41	74.00	-26.59	peak
6	5992.000	40.10	3.27	43.37	74.00	-30.63	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

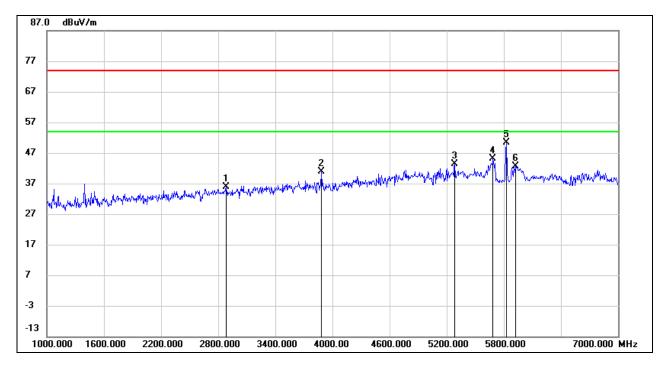


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2938.000	41.73	-5.89	35.84	74.00	-38.16	peak
2	3856.000	43.30	-3.36	39.94	74.00	-34.06	peak
3	4558.000	41.65	-0.84	40.81	74.00	-33.19	peak
4	5662.000	43.19	2.47	45.66	74.00	-28.34	peak
5	5785.000	44.53	2.50	47.03	74.00	-26.97	peak
6	5890.000	40.77	2.87	43.64	74.00	-30.36	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

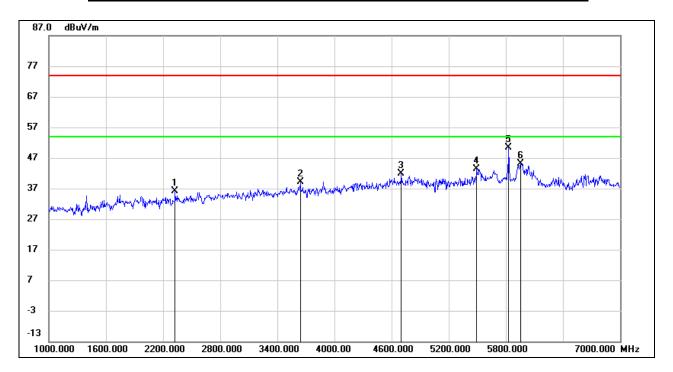


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2884.000	41.96	-6.15	35.81	74.00	-38.19	peak
2	3886.000	44.39	-3.41	40.98	74.00	-33.02	peak
3	5284.000	41.43	2.01	43.44	74.00	-30.56	peak
4	5686.000	42.58	2.47	45.05	74.00	-28.95	peak
5	5825.000	47.74	2.61	50.35	74.00	-23.65	peak
6	5920.000	39.75	2.98	42.73	74.00	-31.27	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2326.000	44.82	-8.64	36.18	74.00	-37.82	peak
2	3640.000	43.11	-4.00	39.11	74.00	-34.89	peak
3	4702.000	41.87	0.01	41.88	74.00	-32.12	peak
4	5494.000	41.12	2.14	43.26	74.00	-30.74	peak
5	5825.000	47.80	2.61	50.41	74.00	-23.59	peak
6	5956.000	42.07	3.13	45.20	74.00	-28.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

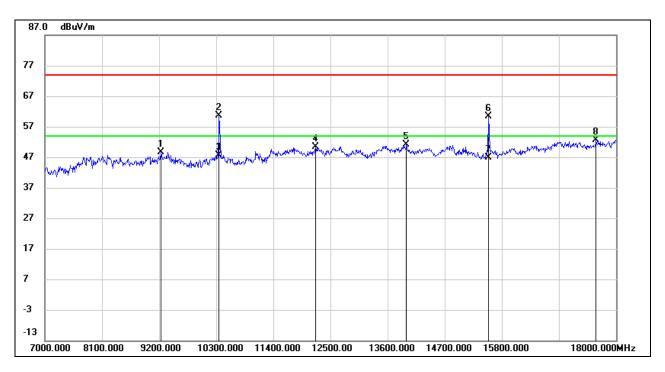


# 8.3. SPURIOUS EMISSIONS (7 GHz ~ 18 GHz)

### 8.3.1. 802.11a CDD 4TX MODE

### **UNII-1 BAND**

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

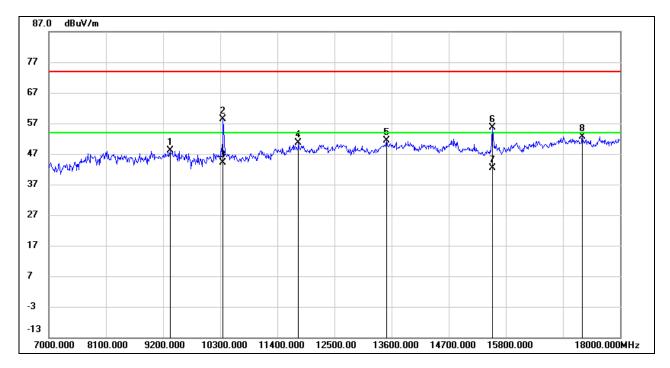


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	38.57	10.08	48.65	74.00	-25.35	peak
2	10355.000	48.59	12.04	60.63	68.2	-7.57	peak
3	10355.000	35.66	12.04	47.70	1	/	AVG
4	12214.000	34.53	15.97	50.50	74.00	-23.50	peak
5	13963.000	33.42	17.61	51.03	74.00	-22.97	peak
6	15547.000	42.94	17.36	60.30	74.00	-13.70	peak
7	15547.000	29.60	17.36	46.96	54.00	-7.04	AVG
8	17615.000	29.68	22.84	52.52	74.00	-21.48	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

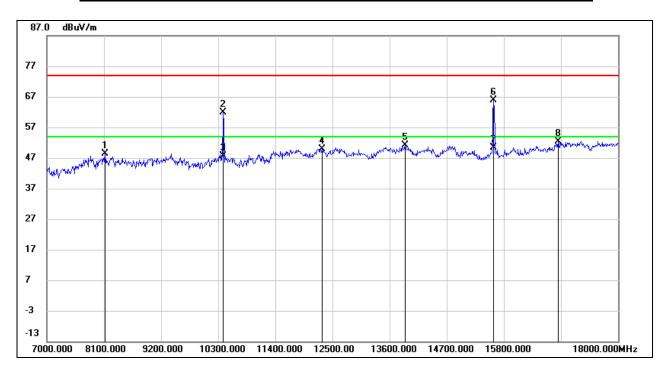


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	37.46	10.59	48.05	74.00	-25.95	peak
2	10355.000	46.44	12.04	58.48	68.2	-9.72	peak
3	10355.000	32.11	12.04	44.15	1	/	AVG
4	11807.000	35.37	15.27	50.64	74.00	-23.36	peak
5	13501.000	34.20	17.22	51.42	74.00	-22.58	peak
6	15536.000	38.29	17.28	55.57	74.00	-18.43	peak
7	15536.000	25.02	17.28	42.30	54.00	-11.70	AVG
8	17274.000	30.28	22.45	52.73	74.00	-21.27	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

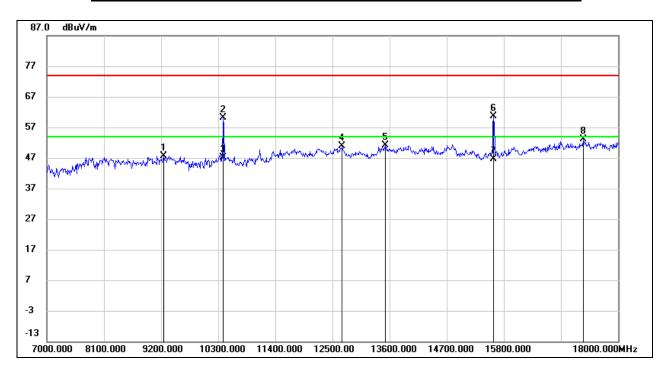


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	38.39	10.10	48.49	74.00	-25.51	peak
2	10399.000	49.60	12.23	61.83	68.2	-6.37	peak
3	10399.000	35.43	12.23	47.66	/	/	AVG
4	12302.000	33.83	16.09	49.92	74.00	-24.08	peak
5	13897.000	33.56	17.52	51.08	74.00	-22.92	peak
6	15602.000	48.11	17.70	65.81	74.00	-8.19	peak
7	15602.000	32.56	17.70	50.26	54.00	-3.74	AVG
8	16845.000	31.30	21.10	52.40	74.00	-21.60	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

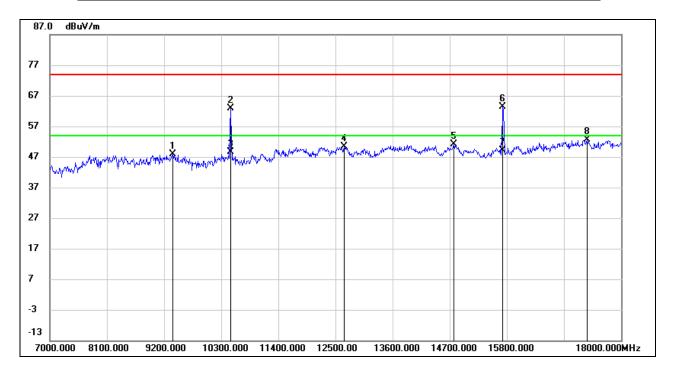


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9255.000	37.50	10.17	47.67	74.00	-26.33	peak
2	10399.000	47.85	12.23	60.08	68.2	-8.12	peak
3	10399.000	34.80	12.23	47.03	/	/	AVG
4	12687.000	35.31	15.64	50.95	74.00	-23.05	peak
5	13512.000	33.84	17.20	51.04	74.00	-22.96	peak
6	15602.000	42.81	17.70	60.51	74.00	-13.49	peak
7	15602.000	28.89	17.70	46.59	54.00	-7.41	AVG
8	17329.000	30.80	22.39	53.19	74.00	-20.81	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

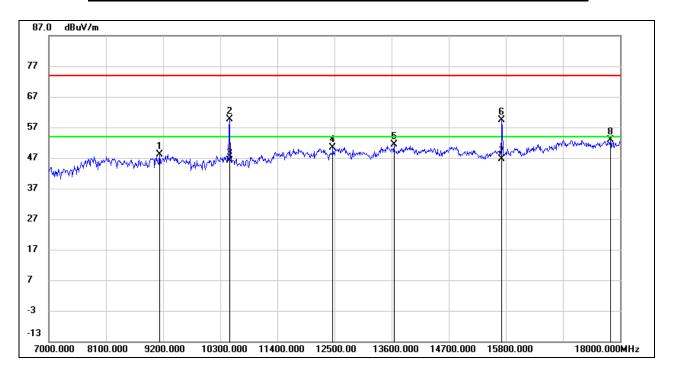


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9365.000	37.18	10.77	47.95	74.00	-26.05	peak
2	10476.000	50.59	12.33	62.92	68.2	-5.28	peak
3	10476.000	36.36	12.33	48.69	1	/	AVG
4	12665.000	34.77	15.68	50.45	74.00	-23.55	peak
5	14777.000	33.27	17.96	51.23	74.00	-22.77	peak
6	15723.000	45.44	17.86	63.30	74.00	-10.70	peak
7	15723.000	31.17	17.86	49.03	54.00	-4.97	AVG
8	17340.000	30.26	22.31	52.57	74.00	-21.43	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



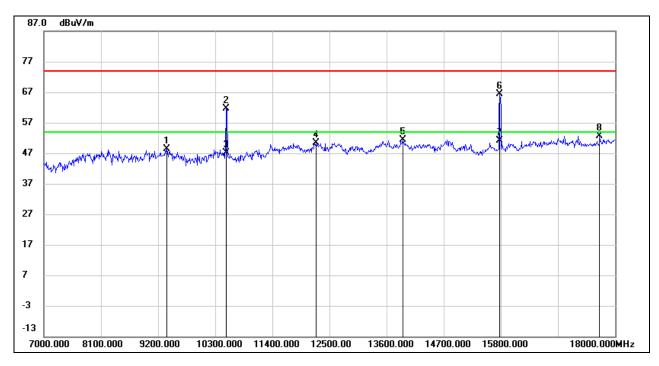
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	38.13	10.06	48.19	74.00	-25.81	peak
2	10476.000	47.33	12.33	59.66	68.2	-8.54	peak
3	10476.000	33.83	12.33	46.16	1	/	AVG
4	12467.000	34.70	15.76	50.46	74.00	-23.54	peak
5	13644.000	34.04	17.33	51.37	74.00	-22.63	peak
6	15723.000	41.52	17.86	59.38	74.00	-14.62	peak
7	15723.000	28.80	17.86	46.66	54.00	-7.34	AVG
8	17813.000	28.88	24.03	52.91	74.00	-21.09	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### **UNII-2A BAND**

# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

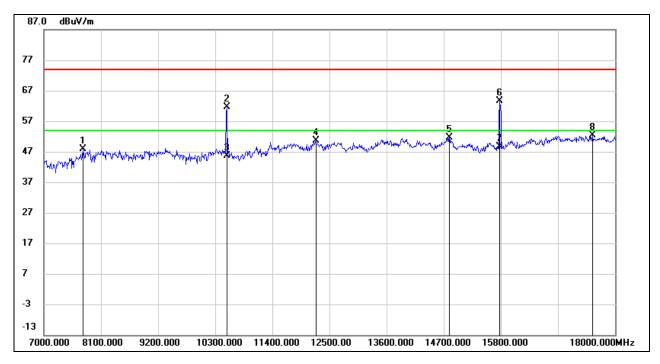


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9365.000	37.53	10.77	48.30	74.00	-25.70	peak
2	10509.000	49.34	12.39	61.73	68.2	-6.47	peak
3	10509.000	34.71	12.39	47.10	1	/	AVG
4	12247.000	34.44	16.02	50.46	74.00	-23.54	peak
5	13908.000	33.72	17.54	51.26	74.00	-22.74	peak
6	15778.000	48.30	17.96	66.26	74.00	-7.74	peak
7	15778.000	33.06	17.96	51.02	54.00	-2.98	AVG
8	17703.000	29.14	23.49	52.63	74.00	-21.37	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

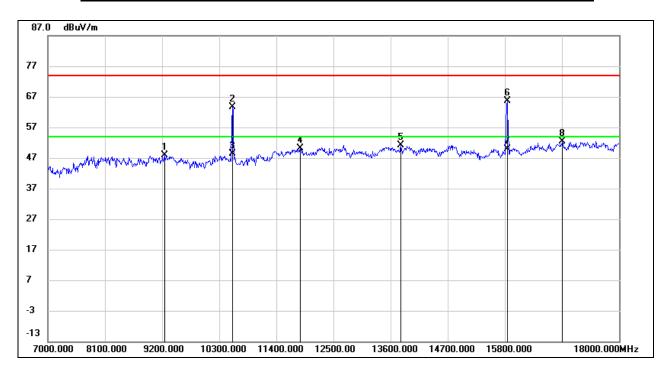


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7748.000	39.08	8.88	47.96	74.00	-26.04	peak
2	10520.000	49.28	12.43	61.71	68.2	-6.49	peak
3	10520.000	33.13	12.43	45.56	/	/	AVG
4	12236.000	34.53	16.01	50.54	74.00	-23.46	peak
5	14810.000	33.59	17.97	51.56	74.00	-22.44	peak
6	15778.000	45.69	17.96	63.65	74.00	-10.35	peak
7	15778.000	30.68	17.96	48.64	54.00	-5.36	AVG
8	17560.000	29.82	22.45	52.27	74.00	-21.73	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

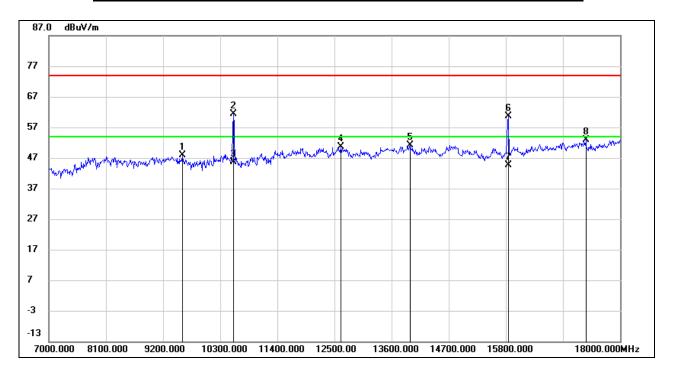


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	37.84	10.12	47.96	74.00	-26.04	peak
2	10553.000	51.03	12.53	63.56	68.2	-4.64	peak
3	10553.000	35.97	12.53	48.50	1	/	AVG
4	11862.000	34.71	15.41	50.12	74.00	-23.88	peak
5	13798.000	33.53	17.61	51.14	74.00	-22.86	peak
6	15844.000	47.70	18.02	65.72	74.00	-8.28	peak
7	15844.000	31.87	18.02	49.89	54.00	-4.11	AVG
8	16911.000	30.95	21.54	52.49	74.00	-21.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

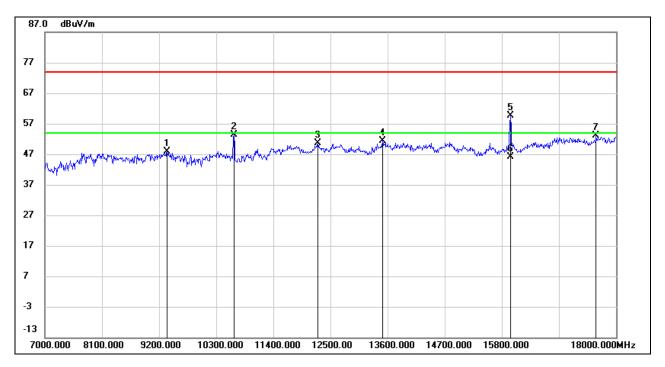


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9574.000	37.01	10.90	47.91	74.00	-26.09	peak
2	10553.000	48.81	12.53	61.34	68.2	-6.86	peak
3	10553.000	33.00	12.53	45.53	/	/	AVG
4	12621.000	34.88	15.75	50.63	74.00	-23.37	peak
5	13952.000	33.64	17.60	51.24	74.00	-22.76	peak
6	15844.000	42.56	18.02	60.58	74.00	-13.42	peak
7	15844.000	26.59	18.02	44.61	54.00	-9.39	AVG
8	17340.000	30.64	22.31	52.95	74.00	-21.05	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

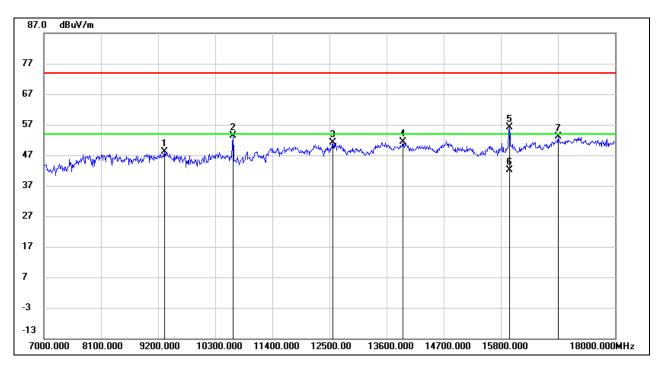


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	37.18	10.70	47.88	74.00	-26.12	peak
2	10641.000	40.66	12.77	53.43	74.00	-20.57	peak
3	12258.000	34.72	16.03	50.75	74.00	-23.25	peak
4	13501.000	34.24	17.22	51.46	74.00	-22.54	peak
5	15965.000	41.42	18.29	59.71	74.00	-14.29	peak
6	15965.000	27.88	18.29	46.17	54.00	-7.83	AVG
7	17615.000	30.23	22.84	53.07	74.00	-20.93	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



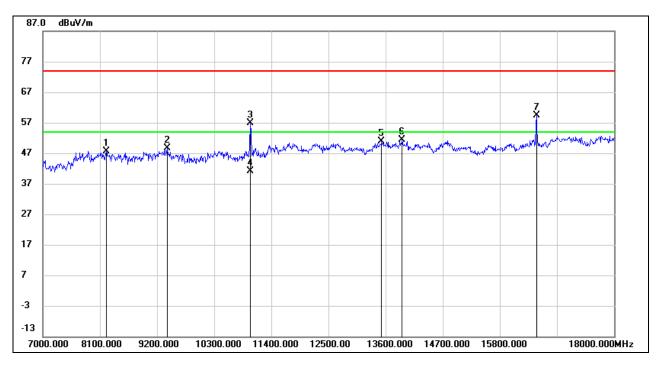
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9321.000	37.50	10.52	48.02	74.00	-25.98	peak
2	10641.000	40.61	12.77	53.38	74.00	-20.62	peak
3	12566.000	35.38	15.74	51.12	74.00	-22.88	peak
4	13919.000	33.83	17.55	51.38	74.00	-22.62	peak
5	15965.000	37.78	18.29	56.07	74.00	-17.93	peak
6	15965.000	23.84	18.29	42.13	54.00	-11.87	AVG
7	16900.000	31.63	21.57	53.20	74.00	-20.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### **UNII-2C BAND**

# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

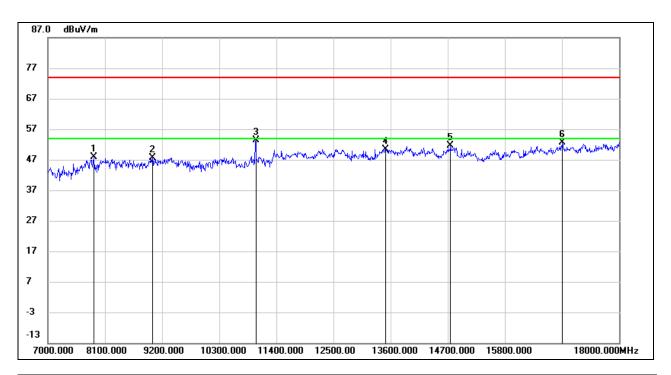


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8221.000	37.94	9.79	47.73	74.00	-26.27	peak
2	9398.000	37.61	10.96	48.57	74.00	-25.43	peak
3	10993.000	43.49	13.31	56.80	74.00	-17.20	peak
4	10993.000	27.80	13.31	41.11	54.00	-12.89	AVG
5	13523.000	33.78	17.19	50.97	74.00	-23.03	peak
6	13919.000	33.81	17.55	51.36	74.00	-22.64	peak
7	16504.000	39.68	19.70	59.38	68.2	-8.82	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

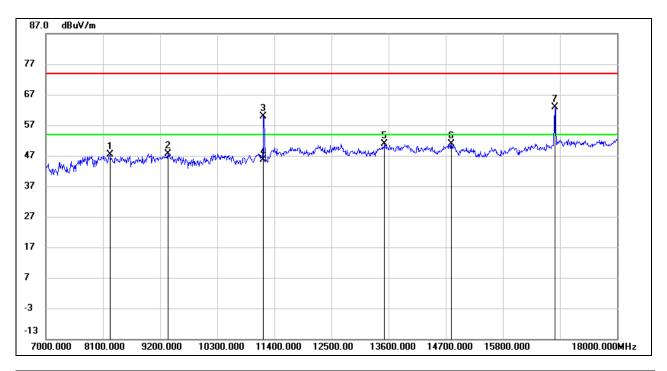


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7880.000	38.88	8.95	47.83	74.00	-26.17	peak
2	9013.000	36.50	11.12	47.62	74.00	-26.38	peak
3	11004.000	39.99	13.32	53.31	74.00	-20.69	peak
4	13501.000	33.20	17.22	50.42	74.00	-23.58	peak
5	14755.000	33.69	17.88	51.57	74.00	-22.43	peak
6	16911.000	31.01	21.54	52.55	74.00	-21.45	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

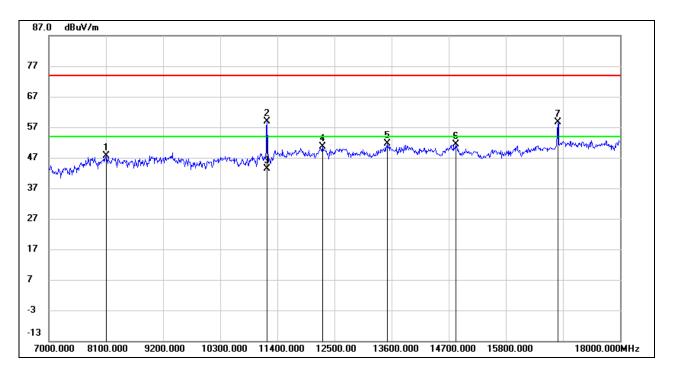


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8232.000	37.49	9.77	47.26	74.00	-26.74	peak
2	9354.000	36.99	10.70	47.69	74.00	-26.31	peak
3	11191.000	46.19	13.78	59.97	74.00	-14.03	peak
4	11191.000	31.78	13.78	45.56	54.00	-8.44	AVG
5	13523.000	33.76	17.19	50.95	74.00	-23.05	peak
6	14810.000	32.80	17.97	50.77	74.00	-23.23	peak
7	16801.000	42.23	20.72	62.95	68.2	-5.25	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



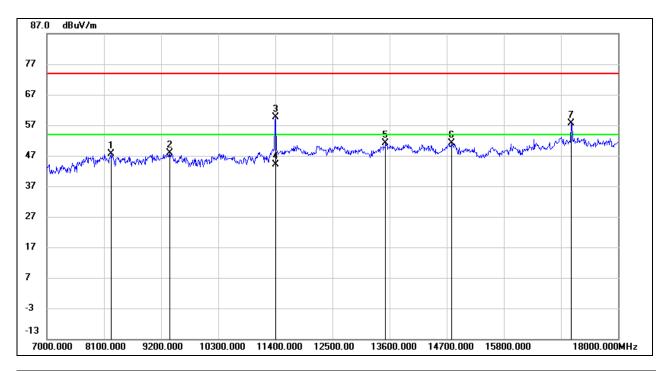
### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8100.000	37.51	10.18	47.69	74.00	-26.31	peak
2	11202.000	45.05	13.79	58.84	74.00	-15.16	peak
3	11202.000	29.56	13.79	43.35	54.00	-10.65	AVG
4	12269.000	34.53	16.04	50.57	74.00	-23.43	peak
5	13523.000	34.34	17.19	51.53	74.00	-22.47	peak
6	14832.000	33.64	17.83	51.47	74.00	-22.53	peak
7	16801.000	37.79	20.72	58.51	68.2	-9.69	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

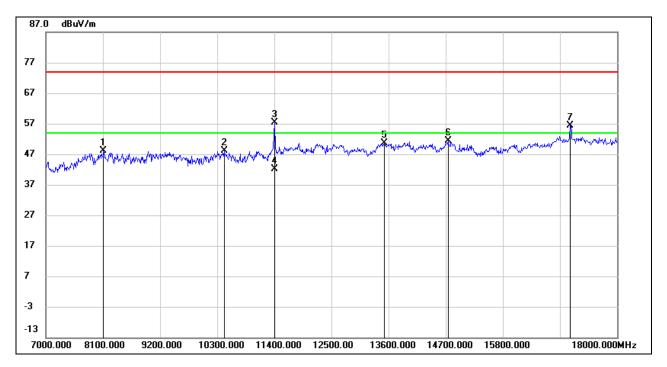




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8232.000	37.96	9.77	47.73	74.00	-26.27	peak
2	9365.000	37.21	10.77	47.98	74.00	-26.02	peak
3	11400.000	44.82	14.76	59.58	74.00	-14.42	peak
4	11400.000	29.26	14.76	44.02	54.00	-9.98	AVG
5	13523.000	33.82	17.19	51.01	74.00	-22.99	peak
6	14799.000	33.15	18.04	51.19	74.00	-22.81	peak
7	17098.000	35.82	21.89	57.71	68.2	-10.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





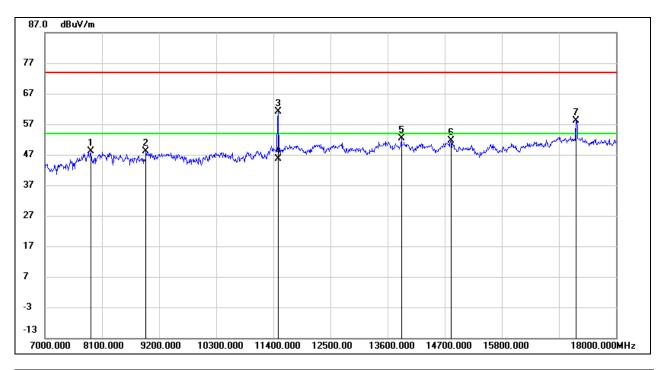
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.09	10.14	48.23	74.00	-25.77	peak
2	10432.000	35.87	12.27	48.14	74.00	-25.86	peak
3	11400.000	42.59	14.76	57.35	74.00	-16.65	peak
4	11400.000	27.49	14.76	42.25	54.00	-11.75	AVG
5	13523.000	33.54	17.19	50.73	74.00	-23.27	peak
6	14744.000	33.53	17.84	51.37	74.00	-22.63	peak
7	17098.000	34.49	21.89	56.38	68.2	-11.82	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### **UNII-3 BAND**

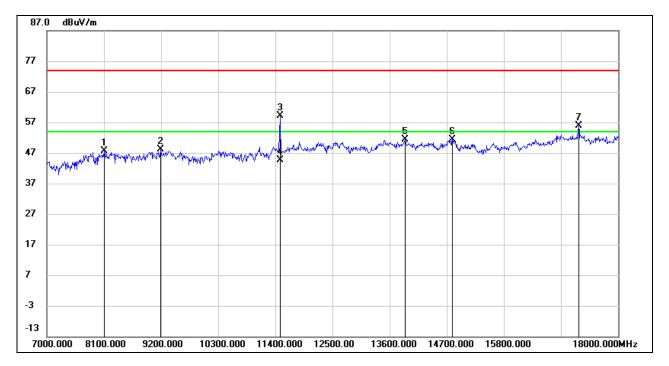
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7880.000	39.23	8.95	48.18	74.00	-25.82	peak
2	8947.000	37.77	10.27	48.04	74.00	-25.96	peak
3	11488.000	46.36	14.66	61.02	74.00	-12.98	peak
4	11488.000	30.99	14.66	45.65	54.00	-8.35	AVG
5	13864.000	34.79	17.55	52.34	74.00	-21.66	peak
6	14821.000	33.65	17.90	51.55	74.00	-22.45	peak
7	17230.000	35.93	22.17	58.10	68.2	-10.01	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

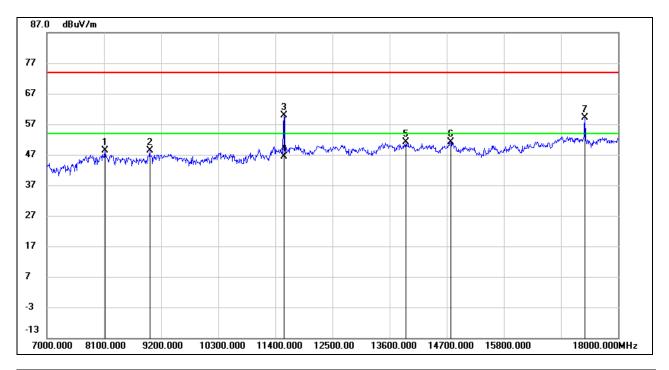




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	37.44	10.14	47.58	74.00	-26.42	peak
2	9189.000	38.28	9.93	48.21	74.00	-25.79	peak
3	11488.000	44.42	14.66	59.08	74.00	-14.92	peak
4	11488.000	29.85	14.66	44.51	54.00	-9.49	AVG
5	13897.000	33.74	17.52	51.26	74.00	-22.74	peak
6	14810.000	33.29	17.97	51.26	74.00	-22.74	peak
7	17241.000	33.74	22.24	55.98	68.2	-12.22	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2dBuV/m) limit.

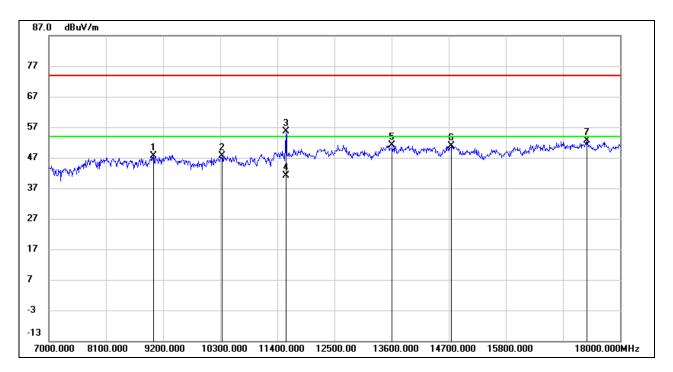




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	38.26	10.10	48.36	74.00	-25.64	peak
2	8980.000	37.38	10.89	48.27	74.00	-25.73	peak
3	11565.000	45.19	14.69	59.88	74.00	-14.12	peak
4	11565.000	31.67	14.69	46.36	54.00	-7.64	AVG
5	13919.000	33.50	17.55	51.05	74.00	-22.95	peak
6	14777.000	33.22	17.96	51.18	74.00	-22.82	peak
7	17362.000	37.04	22.15	59.19	68.2	-9.01	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

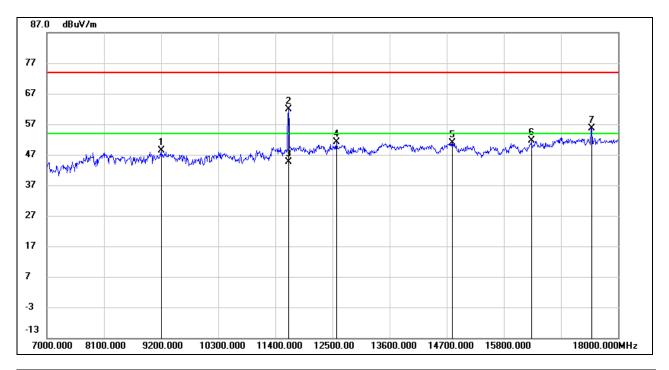




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9013.000	36.49	11.12	47.61	74.00	-26.39	peak
2	10333.000	35.67	11.94	47.61	74.00	-26.39	peak
3	11565.000	40.94	14.69	55.63	74.00	-18.37	peak
4	11565.000	26.46	14.69	41.15	54.00	-12.85	AVG
5	13611.000	33.93	17.15	51.08	74.00	-22.92	peak
6	14755.000	32.91	17.88	50.79	74.00	-23.21	peak
7	17362.000	30.46	22.15	52.61	74.00	-21.39	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

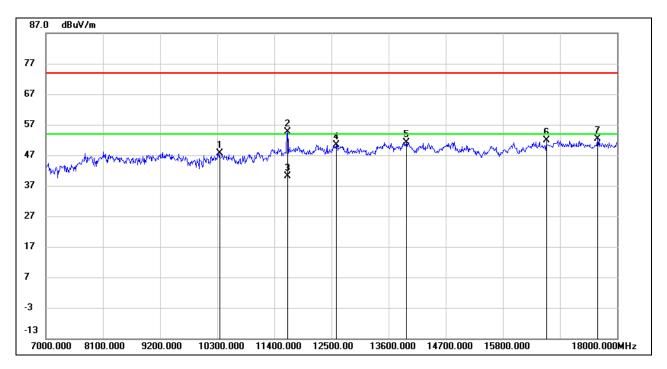




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9211.000	38.30	9.96	48.26	74.00	-25.74	peak
2	11653.000	46.74	15.05	61.79	74.00	-12.21	peak
3	11653.000	29.46	15.05	44.51	54.00	-9.49	AVG
4	12577.000	35.49	15.75	51.24	74.00	-22.76	peak
5	14810.000	32.99	17.97	50.96	74.00	-23.04	peak
6	16328.000	31.89	19.63	51.52	74.00	-22.48	peak
7	17494.000	33.69	22.03	55.72	68.2	-12.48	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10344.000	35.74	11.99	47.73	74.00	-26.27	peak
2	11653.000	39.65	15.05	54.70	74.00	-19.30	peak
3	11653.000	24.97	15.05	40.02	54.00	-13.98	AVG
4	12588.000	34.58	15.76	50.34	74.00	-23.66	peak
5	13941.000	33.53	17.58	51.11	74.00	-22.89	peak
6	16636.000	31.92	19.99	51.91	74.00	-22.09	peak
7	17626.000	29.54	22.92	52.46	74.00	-21.54	peak

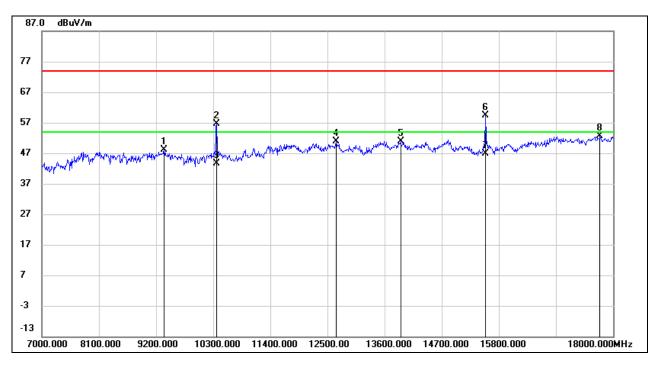
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## 8.3.2. 802.11ac VHT20 CDD 4TX MODE

#### **UNII-1 BAND**

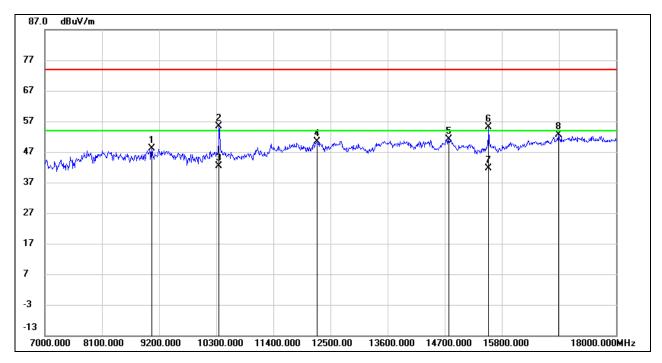
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	37.31	10.70	48.01	74.00	-25.99	peak
2	10366.000	44.51	12.09	56.60	68.2	-11.60	peak
3	10366.000	31.54	12.09	43.63	1	/	AVG
4	12665.000	35.16	15.68	50.84	74.00	-23.16	peak
5	13908.000	33.40	17.54	50.94	74.00	-23.06	peak
6	15547.000	42.08	17.36	59.44	74.00	-14.56	peak
7	15547.000	29.50	17.36	46.86	54.00	-7.14	AVG
8	17747.000	28.90	23.75	52.65	74.00	-21.35	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

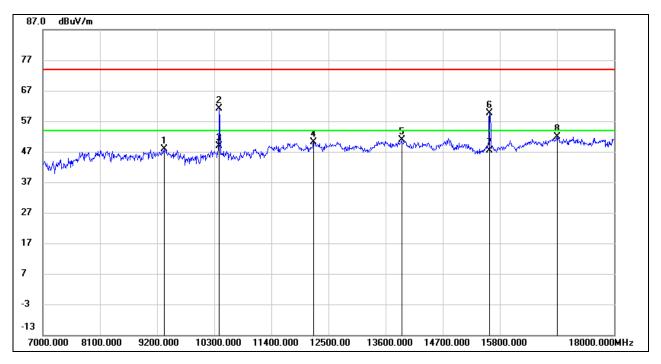




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9057.000	37.57	10.64	48.21	74.00	-25.79	peak
2	10355.000	43.23	12.04	55.27	68.2	-12.93	peak
3	10355.000	30.27	12.04	42.31	1	/	AVG
4	12236.000	34.37	16.01	50.38	74.00	-23.62	peak
5	14777.000	33.13	17.96	51.09	74.00	-22.91	peak
6	15547.000	37.86	17.36	55.22	74.00	-18.78	peak
7	15547.000	24.23	17.36	41.59	54.00	-12.41	AVG
8	16889.000	31.09	21.47	52.56	74.00	-21.44	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

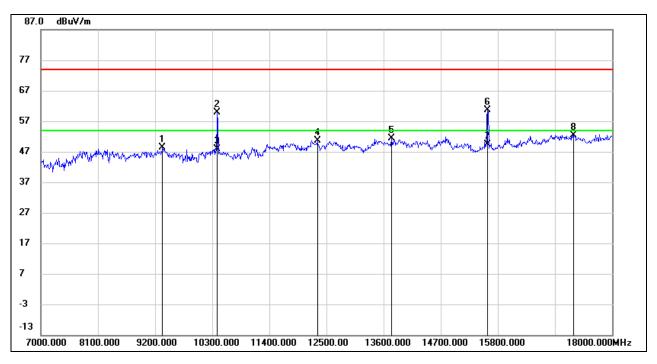




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	37.21	10.59	47.80	74.00	-26.20	peak
2	10399.000	48.85	12.23	61.08	68.2	-7.12	peak
3	10399.000	36.65	12.23	48.88	/	/	AVG
4	12214.000	34.18	15.97	50.15	74.00	-23.85	peak
5	13908.000	33.27	17.54	50.81	74.00	-23.19	peak
6	15602.000	41.92	17.70	59.62	74.00	-14.38	peak
7	15602.000	29.58	17.70	47.28	54.00	-6.72	AVG
8	16900.000	30.43	21.57	52.00	74.00	-22.00	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

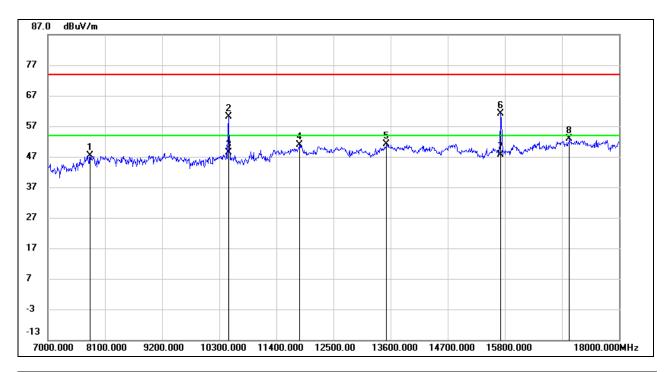




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.63	10.64	48.27	74.00	-25.73	peak
2	10399.000	47.75	12.23	59.98	68.2	-8.22	peak
3	10399.000	35.73	12.23	47.96	/	/	AVG
4	12324.000	34.60	16.05	50.65	74.00	-23.35	peak
5	13754.000	33.76	17.61	51.37	74.00	-22.63	peak
6	15602.000	42.98	17.70	60.68	74.00	-13.32	peak
7	15602.000	31.63	17.70	49.33	54.00	-4.67	AVG
8	17263.000	30.08	22.38	52.46	74.00	-21.54	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

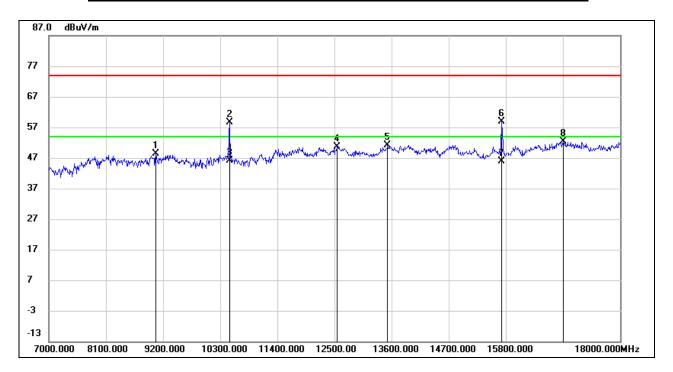




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7814.000	38.10	9.28	47.38	74.00	-26.62	peak
2	10476.000	47.77	12.33	60.10	68,2	-8.1	peak
3	10476.000	36.17	12.33	48.50	1	/	AVG
4	11840.000	35.48	15.35	50.83	74.00	-23.17	peak
5	13523.000	33.94	17.19	51.13	74.00	-22.87	peak
6	15723.000	43.30	17.86	61.16	74.00	-12.84	peak
7	15723.000	29.77	17.86	47.63	54.00	-6.37	AVG
8	17043.000	31.39	21.52	52.91	74.00	-21.09	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





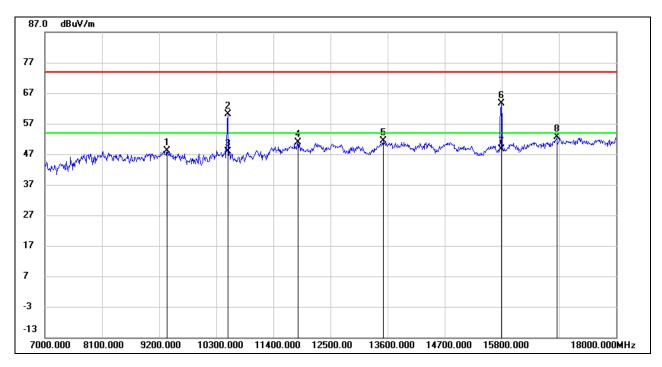
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9057.000	37.73	10.64	48.37	74.00	-25.63	peak
2	10476.000	46.38	12.33	58.71	68.2	-9.49	peak
3	10476.000	33.90	12.33	46.23	1	/	AVG
4	12544.000	34.99	15.72	50.71	74.00	-23.29	peak
5	13523.000	34.03	17.19	51.22	74.00	-22.78	peak
6	15712.000	40.95	17.85	58.80	74.00	-15.20	peak
7	15712.000	28.03	17.85	45.88	54.00	-8.12	AVG
8	16911.000	30.95	21.54	52.49	74.00	-21.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### **UNII-2A BAND**

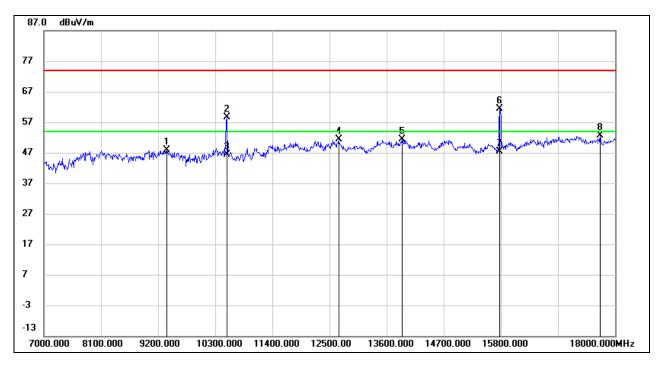
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	37.45	10.70	48.15	74.00	-25.85	peak
2	10520.000	47.72	12.43	60.15	68.2	-8.05	peak
3	10520.000	35.53	12.43	47.96	1	/	AVG
4	11873.000	35.39	15.44	50.83	74.00	-23.17	peak
5	13512.000	34.11	17.20	51.31	74.00	-22.69	peak
6	15789.000	45.71	17.97	63.68	74.00	-10.32	peak
7	15789.000	30.59	17.97	48.56	54.00	-5.44	AVG
8	16856.000	31.32	21.19	52.51	74.00	-21.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2dBuV/m) limit.

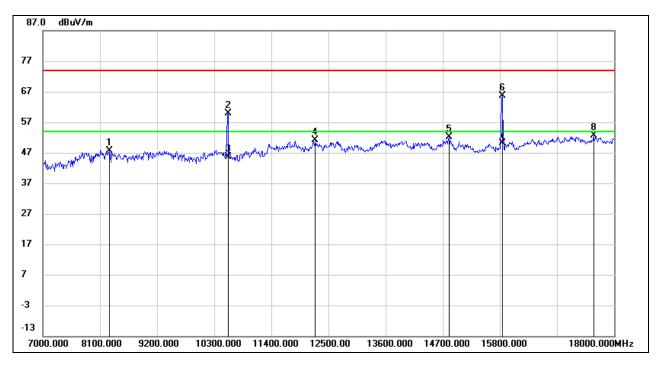




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9365.000	37.05	10.77	47.82	74.00	-26.18	peak
2	10520.000	46.14	12.43	58.57	68.2	-9.63	peak
3	10520.000	33.93	12.43	46.36	/	/	AVG
4	12676.000	35.68	15.66	51.34	74.00	-22.66	peak
5	13897.000	33.77	17.52	51.29	74.00	-22.71	peak
6	15778.000	43.54	17.96	61.50	74.00	-12.50	peak
7	15778.000	29.52	17.96	47.48	54.00	-6.52	AVG
8	17714.000	28.98	23.55	52.53	74.00	-21.47	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

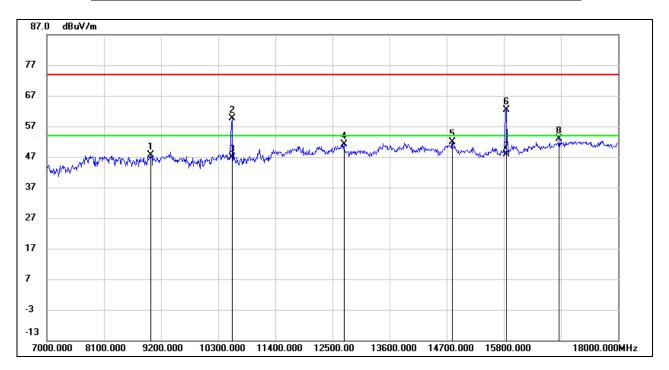




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8287.000	37.85	9.70	47.55	74.00	-26.45	peak
2	10564.000	47.23	12.57	59.80	68.2	-8.4	peak
3	10564.000	33.12	12.57	45.69	/	/	AVG
4	12247.000	35.23	16.02	51.25	74.00	-22.75	peak
5	14821.000	34.12	17.90	52.02	74.00	-21.98	peak
6	15844.000	47.52	18.02	65.54	74.00	-8.46	peak
7	15844.000	32.14	18.02	50.16	54.00	-3.84	AVG
8	17604.000	29.85	22.76	52.61	74.00	-21.39	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

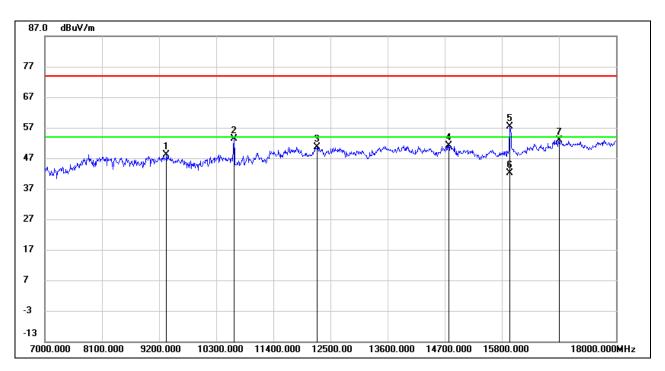




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9002.000	36.50	11.24	47.74	74.00	-26.26	peak
2	10564.000	47.11	12.57	59.68	68.2	-8.52	peak
3	10564.000	34.32	12.57	46.89	1	/	AVG
4	12720.000	35.44	15.70	51.14	74.00	-22.86	peak
5	14810.000	33.96	17.97	51.93	74.00	-22.07	peak
6	15844.000	44.28	18.02	62.30	74.00	-11.70	peak
7	15844.000	29.86	18.02	47.88	54.00	-6.12	AVG
8	16867.000	31.56	21.29	52.85	74.00	-21.15	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

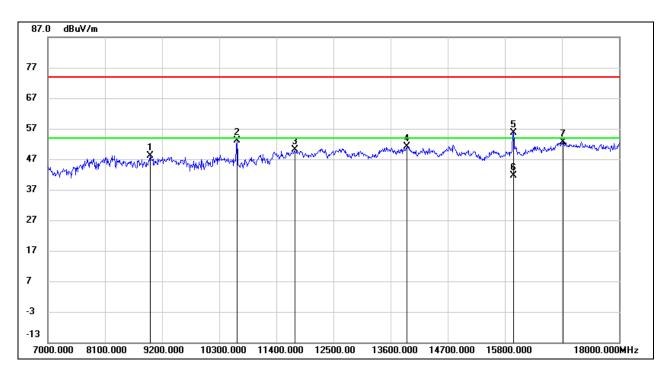




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.50	10.64	48.14	74.00	-25.86	peak
2	10641.000	40.55	12.77	53.32	74.00	-20.68	peak
3	12247.000	34.70	16.02	50.72	74.00	-23.28	peak
4	14777.000	33.29	17.96	51.25	74.00	-22.75	peak
5	15954.000	39.19	18.26	57.45	74.00	-16.55	peak
6	15954.000	23.82	18.26	42.08	54.00	-11.92	AVG
7	16900.000	31.42	21.57	52.99	74.00	-21.01	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





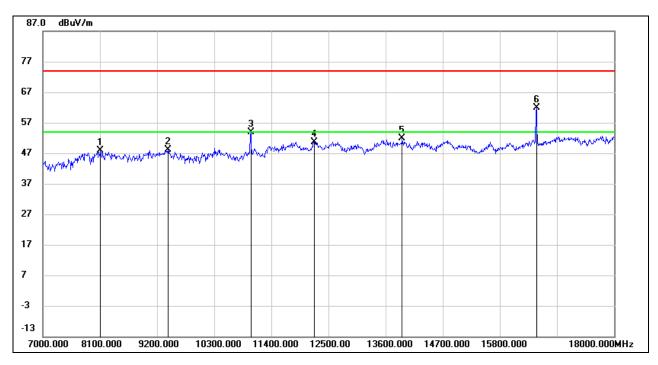
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8969.000	37.36	10.69	48.05	74.00	-25.95	peak
2	10641.000	40.45	12.77	53.22	74.00	-20.78	peak
3	11752.000	34.92	15.29	50.21	74.00	-23.79	peak
4	13919.000	33.57	17.55	51.12	74.00	-22.88	peak
5	15965.000	37.40	18.29	55.69	74.00	-18.31	peak
6	15965.000	23.22	18.29	41.51	54.00	-12.49	AVG
7	16922.000	31.22	21.49	52.71	74.00	-21.29	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### **UNII-2C BAND**

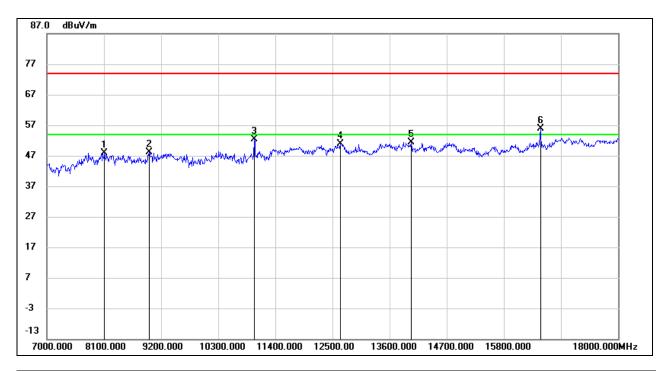
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	37.69	10.14	47.83	74.00	-26.17	peak
2	9409.000	37.23	10.94	48.17	74.00	-25.83	peak
3	11004.000	40.56	13.32	53.88	74.00	-20.12	peak
4	12225.000	34.74	15.99	50.73	74.00	-23.27	peak
5	13919.000	34.44	17.55	51.99	74.00	-22.01	peak
6	16504.000	42.14	19.70	61.84	68.2	-6.36	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

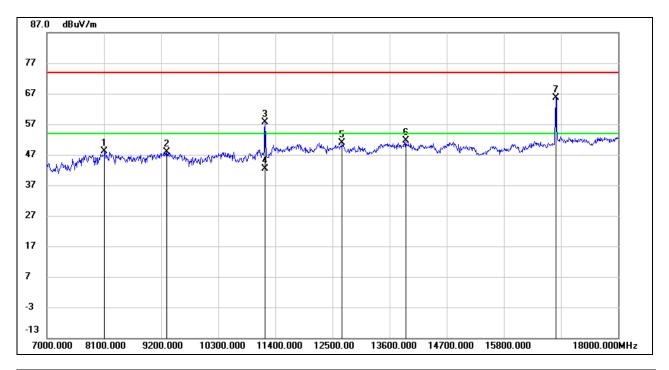




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	37.86	10.14	48.00	74.00	-26.00	peak
2	8969.000	37.52	10.69	48.21	74.00	-25.79	peak
3	10993.000	39.16	13.31	52.47	74.00	-21.53	peak
4	12654.000	35.28	15.69	50.97	74.00	-23.03	peak
5	14018.000	33.66	17.63	51.29	74.00	-22.71	peak
6	16504.000	36.30	19.70	56.00	68.2	-12.2	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2dBuV/m) limit.

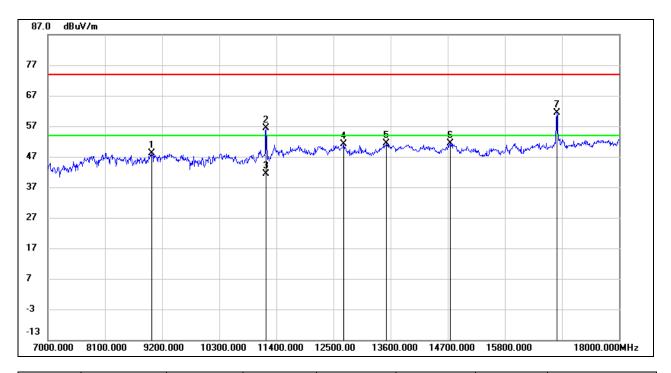




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.00	10.14	48.14	74.00	-25.86	peak
2	9310.000	37.31	10.46	47.77	74.00	-26.23	peak
3	11202.000	43.80	13.79	57.59	74.00	-16.41	peak
4	11202.000	28.49	13.79	42.28	54.00	-11.72	AVG
5	12687.000	35.33	15.64	50.97	74.00	-23.03	peak
6	13908.000	33.99	17.54	51.53	74.00	-22.47	peak
7	16801.000	44.99	20.72	65.71	68.2	-2.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

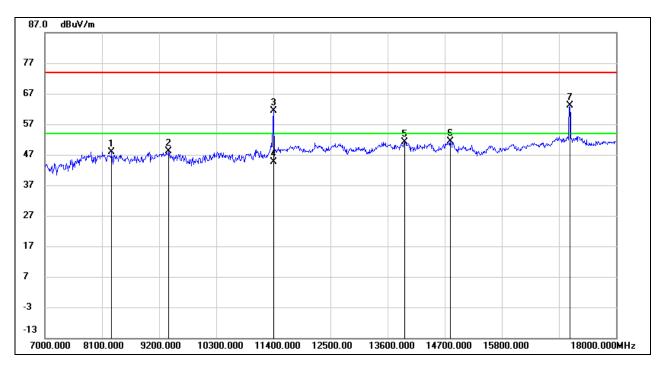




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9002.000	36.85	11.24	48.09	74.00	-25.91	peak
2	11202.000	42.57	13.79	56.36	74.00	-17.64	peak
3	11202.000	27.57	13.79	41.36	54.00	-12.64	AVG
4	12698.000	35.58	15.62	51.20	74.00	-22.80	peak
5	13512.000	34.18	17.20	51.38	74.00	-22.62	peak
6	14744.000	33.62	17.84	51.46	74.00	-22.54	peak
7	16801.000	40.77	20.72	61.49	68.2	-6.71	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

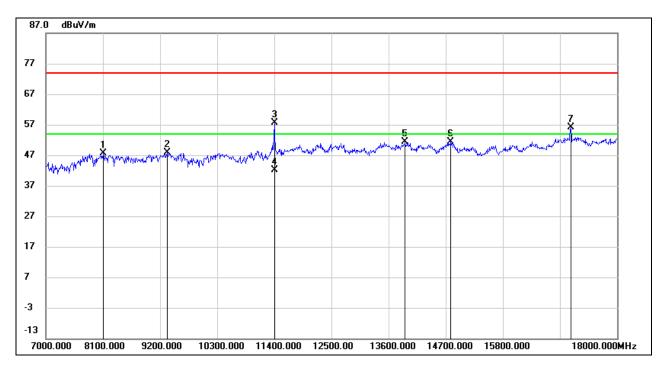




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8287.000	38.21	9.70	47.91	74.00	-26.09	peak
2	9387.000	37.24	10.89	48.13	74.00	-25.87	peak
3	11400.000	46.53	14.76	61.29	74.00	-12.71	peak
4	11400.000	29.83	14.76	44.59	54.00	-9.41	AVG
5	13930.000	33.55	17.57	51.12	74.00	-22.88	peak
6	14810.000	33.45	17.97	51.42	74.00	-22.58	peak
7	17109.000	41.10	21.91	63.01	68.2	-5.19	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





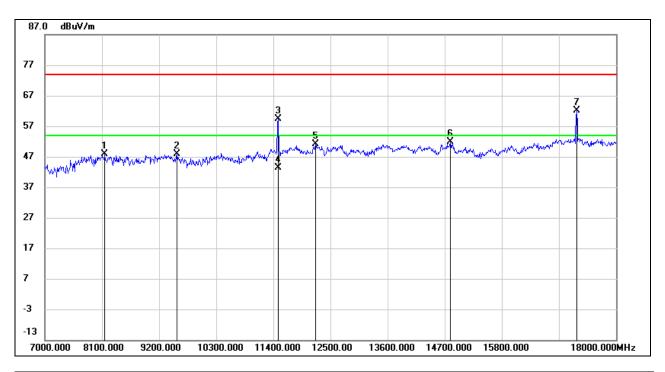
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	37.58	10.14	47.72	74.00	-26.28	peak
2	9332.000	37.17	10.59	47.76	74.00	-26.24	peak
3	11400.000	42.87	14.76	57.63	74.00	-16.37	peak
4	11400.000	27.40	14.76	42.16	54.00	-11.84	AVG
5	13919.000	33.89	17.55	51.44	74.00	-22.56	peak
6	14799.000	33.46	18.04	51.50	74.00	-22.50	peak
7	17109.000	34.24	21.91	56.15	68.2	-12.05	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## **UNII-3 BAND**

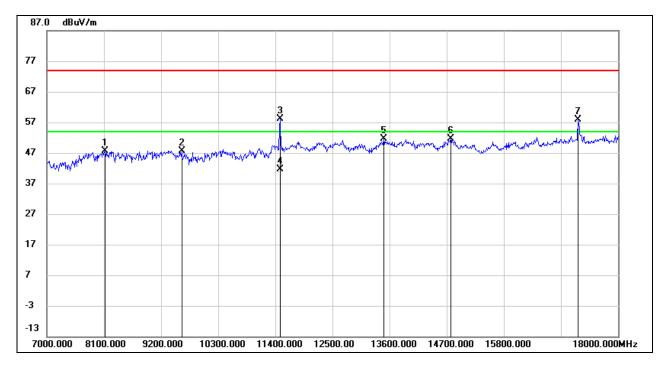
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8155.000	37.86	9.98	47.84	74.00	-26.16	peak
2	9541.000	37.11	10.73	47.84	74.00	-26.16	peak
3	11488.000	44.64	14.66	59.30	74.00	-14.70	peak
4	11488.000	28.60	14.66	43.26	54.00	-10.74	AVG
5	12214.000	35.17	15.97	51.14	74.00	-22.86	peak
6	14810.000	33.98	17.97	51.95	74.00	-22.05	peak
7	17241.000	39.81	22.24	62.05	68.2	-6.15	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

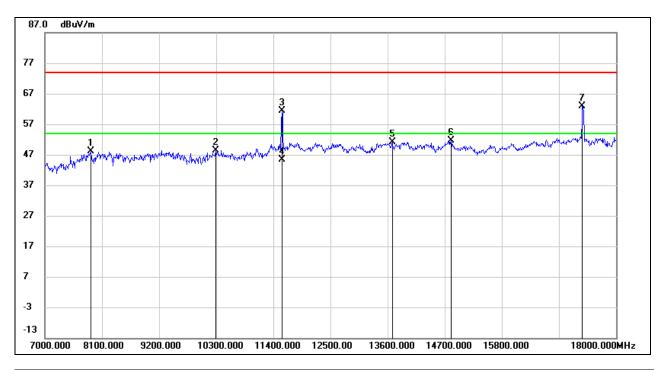




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	37.46	10.10	47.56	74.00	-26.44	peak
2	9596.000	36.62	11.01	47.63	74.00	-26.37	peak
3	11488.000	43.57	14.66	58.23	74.00	-15.77	peak
4	11488.000	27.06	14.66	41.72	54.00	-12.28	AVG
5	13490.000	34.32	17.20	51.52	74.00	-22.48	peak
6	14777.000	33.75	17.96	51.71	74.00	-22.29	peak
7	17230.000	35.76	22.17	57.93	68.2	-10.27	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

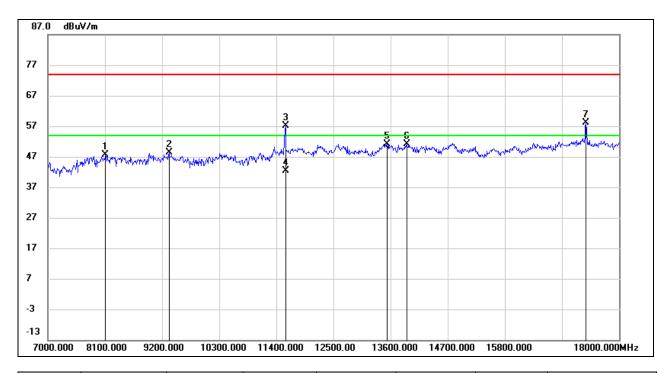




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7891.000	39.35	8.90	48.25	74.00	-25.75	peak
2	10289.000	36.57	11.76	48.33	74.00	-25.67	peak
3	11565.000	46.80	14.69	61.49	74.00	-12.51	peak
4	11565.000	30.60	14.69	45.29	54.00	-8.71	AVG
5	13688.000	33.64	17.55	51.19	74.00	-22.81	peak
6	14821.000	33.68	17.90	51.58	74.00	-22.42	peak
7	17351.000	40.67	22.23	62.90	68.2	-5.3	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

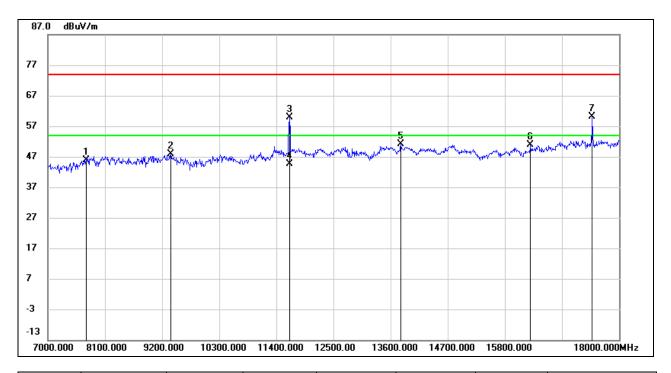




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	37.51	10.14	47.65	74.00	-26.35	peak
2	9332.000	37.75	10.59	48.34	74.00	-25.66	peak
3	11576.000	42.33	14.71	57.04	74.00	-16.96	peak
4	11576.000	27.79	14.71	42.50	54.00	-11.50	AVG
5	13534.000	34.02	17.18	51.20	74.00	-22.80	peak
6	13908.000	33.71	17.54	51.25	74.00	-22.75	peak
7	17362.000	36.10	22.15	58.25	68.2	-9.95	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

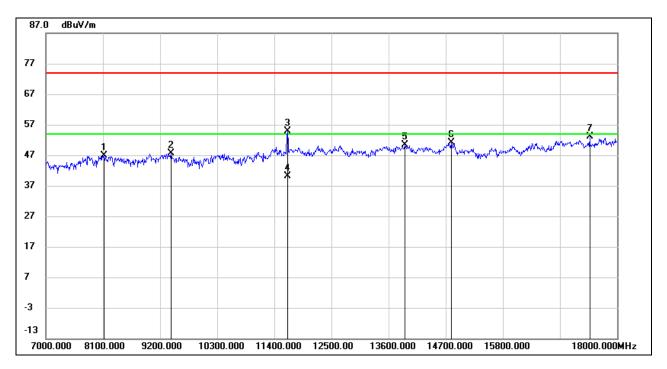




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7737.000	37.22	8.78	46.00	74.00	-28.00	peak
2	9365.000	37.05	10.77	47.82	74.00	-26.18	peak
3	11653.000	44.75	15.05	59.80	74.00	-14.20	peak
4	11653.000	29.64	15.05	44.69	54.00	-9.31	AVG
5	13798.000	33.58	17.61	51.19	74.00	-22.81	peak
6	16295.000	31.19	19.58	50.77	74.00	-23.23	peak
7	17483.000	38.23	22.01	60.24	68.2	-7.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	36.71	10.10	46.81	74.00	-27.19	peak
2	9409.000	36.80	10.94	47.74	74.00	-26.26	peak
3	11653.000	39.94	15.05	54.99	74.00	-19.01	peak
4	11653.000	25.02	15.05	40.07	54.00	-13.93	AVG
5	13908.000	32.82	17.54	50.36	74.00	-23.64	peak
6	14810.000	33.23	17.97	51.20	74.00	-22.80	peak
7	17472.000	31.10	21.99	53.09	74.00	-20.91	peak

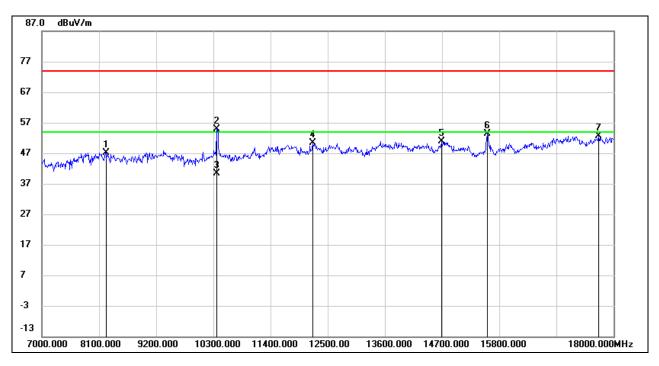
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## 8.3.3. 802.11ac VHT40 CDD 4TX MODE

#### **UNII-1 BAND**

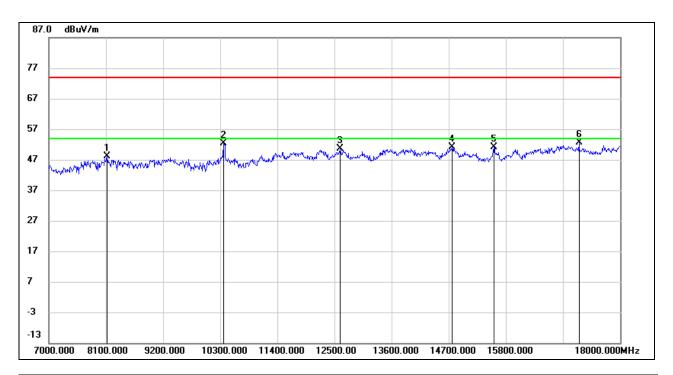
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8232.000	37.45	9.77	47.22	74.00	-26.78	peak
2	10366.000	42.68	12.09	54.77	68.2	-13.43	peak
3	10366.000	28.19	12.09	40.28	1	/	AVG
4	12214.000	34.41	15.97	50.38	74.00	-23.62	peak
5	14689.000	33.19	17.65	50.84	74.00	-23.16	peak
6	15569.000	35.80	17.50	53.30	74.00	-20.70	peak
7	17714.000	29.04	23.55	52.59	74.00	-21.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

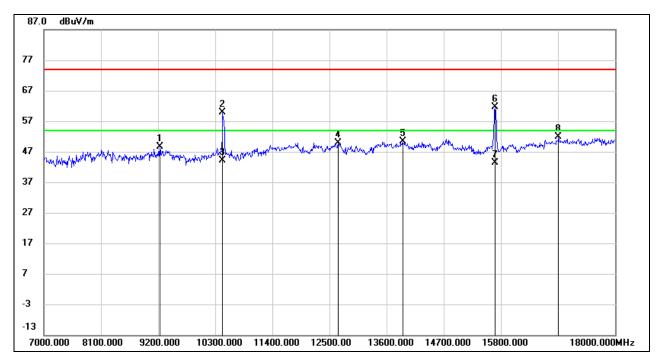




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	38.06	10.10	48.16	74.00	-25.84	peak
2	10366.000	40.17	12.09	52.26	74.00	-21.74	peak
3	12610.000	34.89	15.76	50.65	74.00	-23.35	peak
4	14766.000	33.11	17.92	51.03	74.00	-22.97	peak
5	15569.000	33.74	17.50	51.24	74.00	-22.76	peak
6	17208.000	30.50	22.04	52.54	74.00	-21.46	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

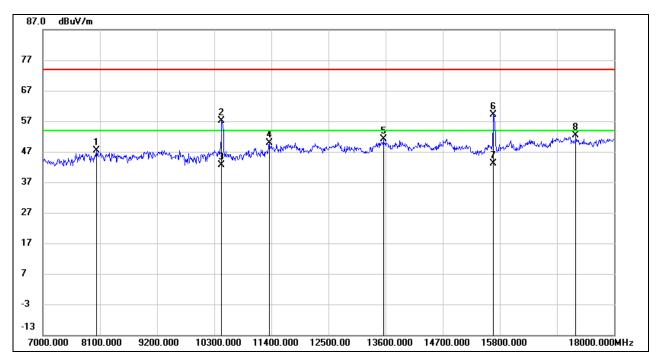




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	38.66	10.08	48.74	74.00	-25.26	peak
2	10443.000	47.52	12.29	59.81	68.2	-8.39	peak
3	10443.000	31.74	12.29	44.03	/	/	AVG
4	12665.000	34.28	15.68	49.96	74.00	-24.04	peak
5	13908.000	32.81	17.54	50.35	74.00	-23.65	peak
6	15690.000	43.82	17.82	61.64	74.00	-12.36	peak
7	15690.000	25.46	17.82	43.28	54.00	-10.72	AVG
8	16911.000	30.46	21.54	52.00	74.00	-22.00	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





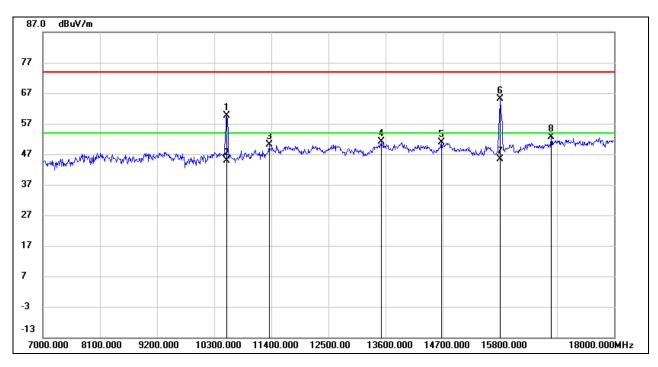
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8034.000	38.16	9.15	47.31	74.00	-26.69	peak
2	10443.000	44.91	12.29	57.20	68.2	-11.0	peak
3	10443.000	30.40	12.29	42.69	1	/	AVG
4	11356.000	35.54	14.35	49.89	74.00	-24.11	peak
5	13556.000	34.09	17.14	51.23	74.00	-22.77	peak
6	15679.000	41.45	17.80	59.25	74.00	-14.75	peak
7	15679.000	25.23	17.80	43.03	54.00	-10.97	AVG
8	17263.000	29.88	22.38	52.26	74.00	-21.74	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



#### **UNII-2A BAND**

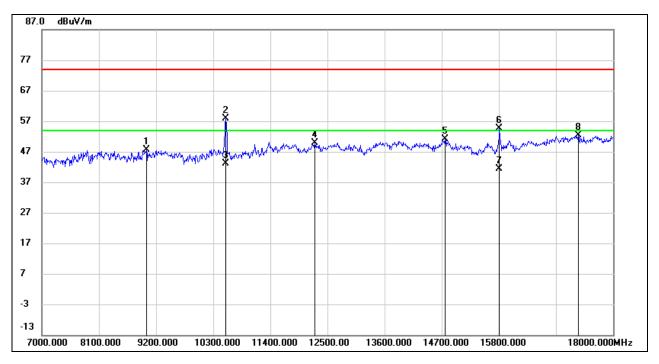
# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10542.000	47.10	12.50	59.60	68.2	-8.60	peak
2	10542.000	32.46	12.50	44.96	1	/	AVG
3	11356.000	35.81	14.35	50.16	74.00	-23.84	peak
4	13523.000	33.88	17.19	51.07	74.00	-22.93	peak
5	14678.000	33.21	17.62	50.83	74.00	-23.17	peak
6	15811.000	47.25	18.00	65.25	74.00	-8.75	peak
7	15811.000	27.27	18.00	45.27	54.00	-8.73	AVG
8	16790.000	32.07	20.64	52.71	74.00	-21.29	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

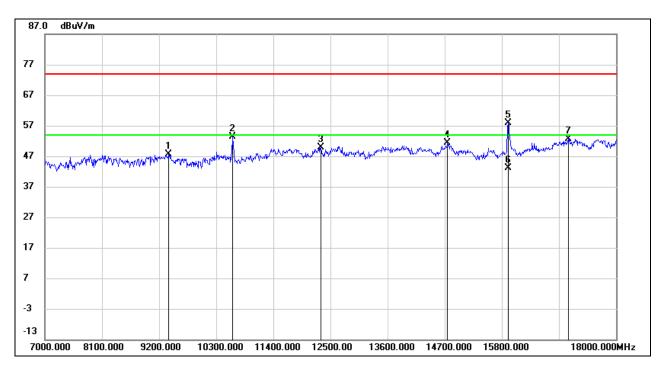




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9013.000	36.47	11.12	47.59	74.00	-26.41	peak
2	10542.000	45.36	12.50	57.86	68.2	-10.34	peak
3	10542.000	30.55	12.50	43.05	/	/	AVG
4	12258.000	33.97	16.03	50.00	74.00	-24.00	peak
5	14766.000	33.21	17.92	51.13	74.00	-22.87	peak
6	15811.000	36.59	18.00	54.59	74.00	-19.41	peak
7	15811.000	23.28	18.00	41.28	54.00	-12.72	AVG
8	17329.000	30.05	22.39	52.44	74.00	-21.56	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

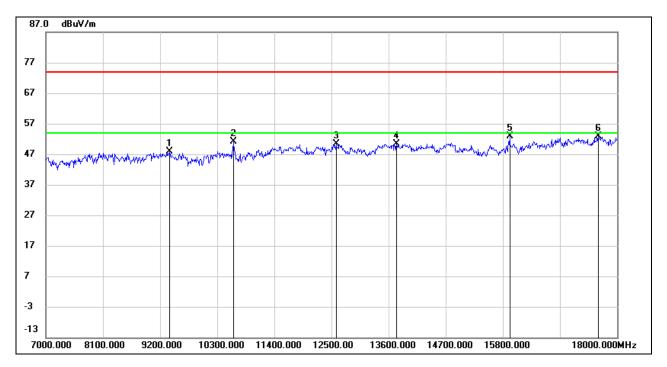




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	36.73	10.84	47.57	74.00	-26.43	peak
2	10619.000	40.73	12.72	53.45	74.00	-20.55	peak
3	12313.000	33.78	16.07	49.85	74.00	-24.15	peak
4	14755.000	33.61	17.88	51.49	74.00	-22.51	peak
5	15921.000	39.75	18.14	57.89	74.00	-16.11	peak
6	15921.000	24.99	18.14	43.13	54.00	-10.87	AVG
7	17076.000	30.88	21.74	52.62	74.00	-21.38	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9387.000	36.96	10.89	47.85	74.00	-26.15	peak
2	10619.000	38.37	12.72	51.09	74.00	-22.91	peak
3	12588.000	34.52	15.76	50.28	74.00	-23.72	peak
4	13754.000	32.89	17.61	50.50	74.00	-23.50	peak
5	15932.000	34.65	18.17	52.82	74.00	-21.18	peak
6	17637.000	29.77	23.01	52.78	74.00	-21.22	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
  - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.