CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 ISSUE 3

TEST REPORT

For

CFV 100C

MODEL NUMBER: CFV 100C
SERIES MODEL NUMBER: CFV-100C

FCC ID: 2AEFA-CFV100C2209
IC: 20193-CFV100C2209

REPORT NUMBER: 4790686575.6-1-RF-1

ISSUE DATE: Jan. 2, 2024

Prepared for

VICTOR HASSELBLAD AB
IC Address: Utvecklingsgatan 2, Goteborg, 417 56 Sweden
FCC Address: Utvecklingsgatan 2, Gothenburg SE-417 56, Sweden

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	Jan. 2, 2024	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C, ISED RSS-247 ISSUE 3> when <Accuracy Method> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	VICTOR HASSELBLAD AB
IC Address:	Utvecklingsgatan 2, Goteborg, 417 56 Sweden
FCC Address:	Utvecklingsgatan 2, Gothenburg SE-417 56, Sweden

Manufacturer Information

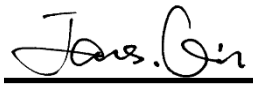
Company Name:	VICTOR HASSELBLAD AB
IC Address:	Utvecklingsgatan 2, Goteborg, 417 56 Sweden
FCC Address:	Utvecklingsgatan 2, Gothenburg SE-417 56, Sweden

EUT Information

EUT Name:	CFV 100C
Model:	CFV 100C
Series Model:	CFV-100C
Model Difference:	All the same except the model name
Brand:	HASSELBLAD
Sample Received Date:	Jan. 10, 2023
Sample Status:	Normal
Date of Tested:	Feb. 10, 2023 to Feb. 24, 2023

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 15 SUBPART C **ISED RSS-247 ISSUE 3**	**Pass**

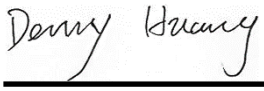
Prepared By:



James Qin

Project Engineer

Checked By:



Denny Huang

Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3, KDB 558074 D01 15.247 Meas. Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 3 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**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 Declaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment 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

Note1:
All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note2:
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.

Note3:
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 recognized 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 (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions in Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±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:	CFV 100C
Model:	CFV 100C
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Radio Technology	IEEE802.11b/g/n HT20/n HT40/ax HE20/ax HE40
Type of Modulation:	IEEE for 802.11b: DSSS IEEE for 802.11g/n: OFDM IEEE for 802.11ax: OFDMA
Normal Test Voltage:	DC 7.27 V

5.2. CHANNEL LIST

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n/ax (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	18.11	21.11
g	2412 ~ 2462	1-11[11]	16.80	19.80
n HT20	2412 ~ 2462	1-11[11]	16.92	19.92
n HT40	2422 ~ 2452	3-9[7]	18.00	21.00
ax HE20	2412 ~ 2462	1-11[11]	17.33	20.33
ax HE40	2422 ~ 2452	3-9[7]	17.51	20.51

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Software		Wifi Certify_1.0.0.7						
Modulation Mode	Transmit Antenna Number	Test Channel						
		NCB: 20MHz			NCB: 40MHz			
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	18	18	18	/			
	0	18	18	18				
802.11g	1	17	17	17				
	0	17	17	17				
802.11n HT20	1	14	14	14				
	0	14	14	14				
802.11n HT40	1	/			14	14	13	
	0	/			14	14	13	
802.11ax HE20	1	14	14	14	/			
	0	14	14	14				
802.11ax HE40	1	/			13	13	13	
	0	/			13	13	13	

WORST-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 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ax HE20 mode: MCS0
802.11ax HE40 mode: MCS0

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 1 and Core 2 correspond to antenna 0 and antenna 1 respectively.

802.11b/g support only SISO mode, there are two transmission antennas. The antenna used in any given time can be either ANTENNA 0 or ANTENNA 1. All antenna ports have the same power; output power measurement for SISO modes on both antennas are reported.

802.11n/ax support only MIMO modes, ANTENNA 0 and ANTENNA 1, used at the same time.

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

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

Conducted bandedge and spurious emissions tests were performed with SISO mode, as this port was found to have the worst case in terms of power settings amongst all supported possible SISO & MIMO port combinations.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.

The EUT support Cyclic Shift Diversity(CDD), Space Time Block Coding(STBC), Spartial Division Multiplexing(SDM) modes. They use the same conducted power per chain in any given mode, so we only chose the worst case mode CDD for final testing.

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
0	2412-2462	PCB antenna	0.8
1	2412-2462	PCB antenna	3.0

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were 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= G_{ANT} + Array Gain = 3.0 dBi
G_{ANT} : equal to the gain of the antenna having the highest gain
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:
Directional gain= G_{ANT} + Array Gain = 6.01 dBi
Array Gain = 10 log(N_{ANT}/N_{SS}) dB.
N_{ANT} : number of transmit antennas
N_{SS} : number of spatial streams, The worst case directional gain will occur when N_{SS} = 1

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒2TX, 2RX	ANT 1 and ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒2TX, 2RX	ANT 1 and ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒2TX, 2RX	ANT 1 and ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒2TX, 2RX	ANT 1 and ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒2TX, 2RX	ANT 1 and ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒2TX, 2RX	ANT 1 and ANT 0 can be used as transmitting/receiving antenna.
Note: 1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)		

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

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	ThinkPad	ThinkPad T41 Gen 1	PF-39TXGN

I/O CABLES

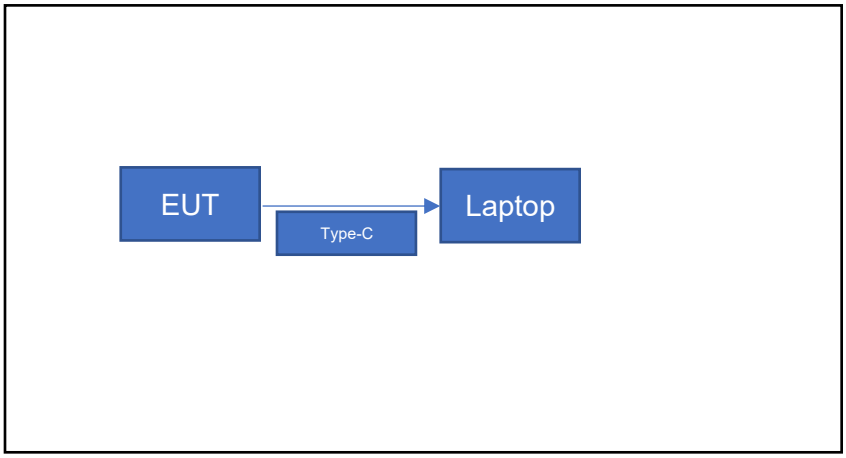
Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type-C	/	1.0	/

ACCESSORY

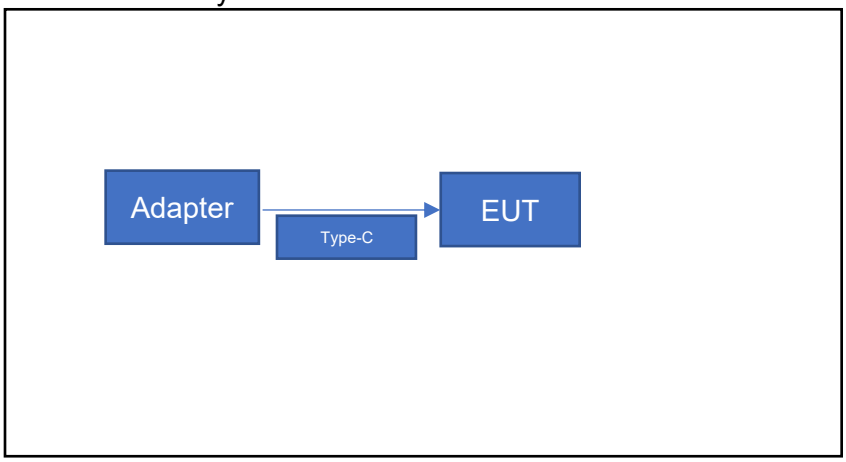
Item	Accessory	Brand Name	Model Name	Description
1	Adapter	/	PD-30US	Input: 100-240V~, 50/60Hz 0.8A Max Output: 3.3-11Vdc, 2.27A, 29.92W or 5Vdc 3A, 15W or 9Vdc 3A, 27W or 12Vdc 2.5A, 30W or 15Vdc 2A, 30W

5.8. SETUP DIAGRAM

For others:



For AC power conducted emission only:



6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Apr.02,2022	Apr.01,2023
Vector Signal Generator	R&S	SMBV100A	261637	Oct.17, 2022	Oct.16, 2023
Signal Generator	R&S	SMB100A	178553	Oct.17, 2022	Oct.16, 2023
Signal Analyzer	R&S	FSV40	101118	Oct.17, 2022	Oct.16, 2023
Software					
Description	Manufacturer	Name	Version		
For R&S TS 8997 Test System	Rohde & Schwarz	EMC 32	10.60.10		

Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.17, 2022	Oct.16, 2023
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.28, 2022	Sep.27, 2023
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.17, 2022	Oct.16, 2023
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.17, 2022	Oct.16, 2023
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.17, 2022	Oct.16, 2023
DC power supply	Keysight	E3642A	MY55159130	Oct.17, 2022	Oct.16, 2023
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.17, 2022	Oct.16, 2023
Software					
Description	Manufacturer	Name	Version		
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System	2.6.77.0518		

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.16, 2023
Two-Line V-Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	Oct.16, 2023
Software					
Description			Manufacturer	Name	Version
Test Software 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	Oct.17, 2022	Oct.16, 2023
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.17, 2022	Oct.16, 2023
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.17, 2022	Oct.16, 2023
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.17, 2022	Oct.16, 2023
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.17, 2022	Oct.16, 2023
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01202035	Oct.17, 2022	Oct.16, 2023
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.17, 2022	Oct.16, 2023
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV20-5440-5470-	1	Oct.17, 2022	Oct.16, 2023

		5725-5755-60SS			
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCD5-1879-1879.85-1880.15-1881-40SS	1	Oct.17, 2022	Oct.16, 2023
Notch Filter	Wainwright	WHJ10-882-980-7000-40SS	1	Oct.17, 2022	Oct.16, 2023
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.22, 2022	Oct.21, 2023
Barometer	Yiyi	Baro	N/A	Oct.24, 2022	Oct.23, 2023
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

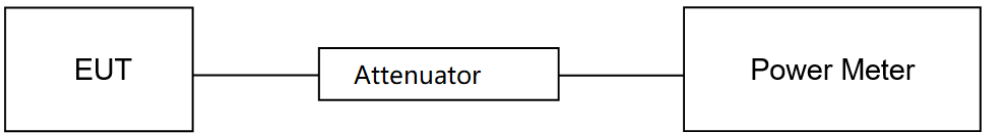
CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 Issue 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).
Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.
The test result in dBm by adding [10 log (1 / D)], where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.27 V

TEST DATE / ENGINEER

Test Date	Feb. 24, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 Issue 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

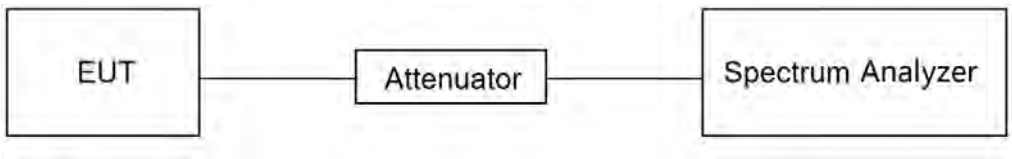
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied 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 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.27 V

TEST DATE / ENGINEER

Test Date	Feb. 24, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 Issue 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

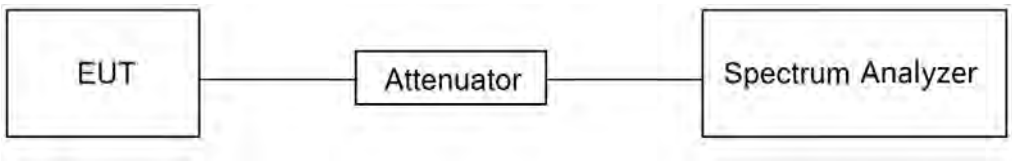
Refer to ANSI C63.10-2013 clause 11.10.5.

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

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x OBW bandwidth
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.27 V

TEST DATE / ENGINEER

Test Date	Feb. 24, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 Issue 3		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

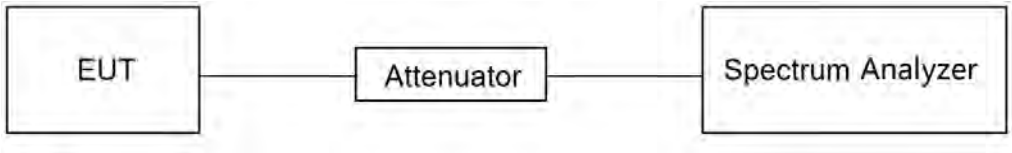
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.
Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.27 V

TEST DATE / ENGINEER

Test Date	Feb. 24, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix E&F

7.5. DUTY CYCLE

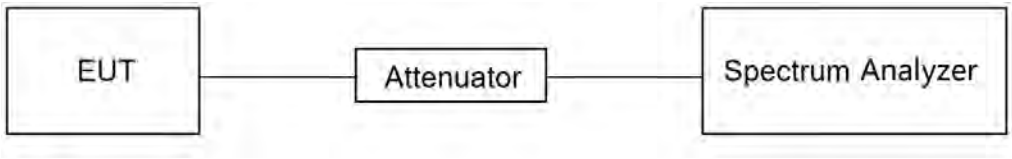
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	53.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.27 V

TEST DATE / ENGINEER

Test Date	Feb. 24, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

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 (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		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

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement distance (m)
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands[Note 1]		
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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
[1]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	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST 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

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 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 and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m 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 377Ω. 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 1G

The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

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.

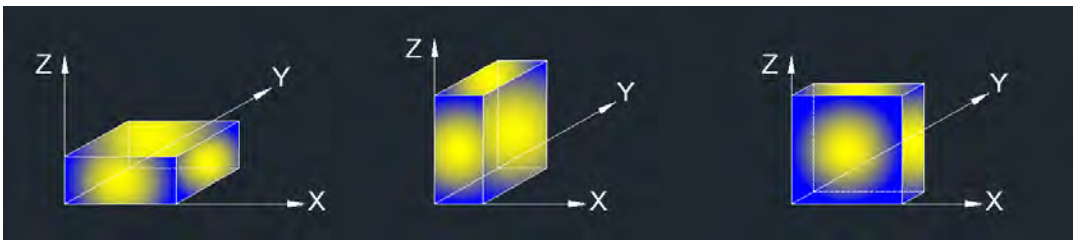
3. The EUT was placed on a turntable with 1.5 m above ground.

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 7.5.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.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

For Band edge note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average 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 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Horizontal and Vertical have been tested, only the worst data was recorded in the report.
8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 1GHz-3GHz note:

Note: 1. Measurement = Reading Level + Correct Factor.
2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average 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 7.5.
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. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 3GHz-18GHz note:

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average 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 7.5.
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. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 9kHz-30MHz note:

1. Measurement = Reading Level + Correct Factor.
   (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).
2. If the Peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

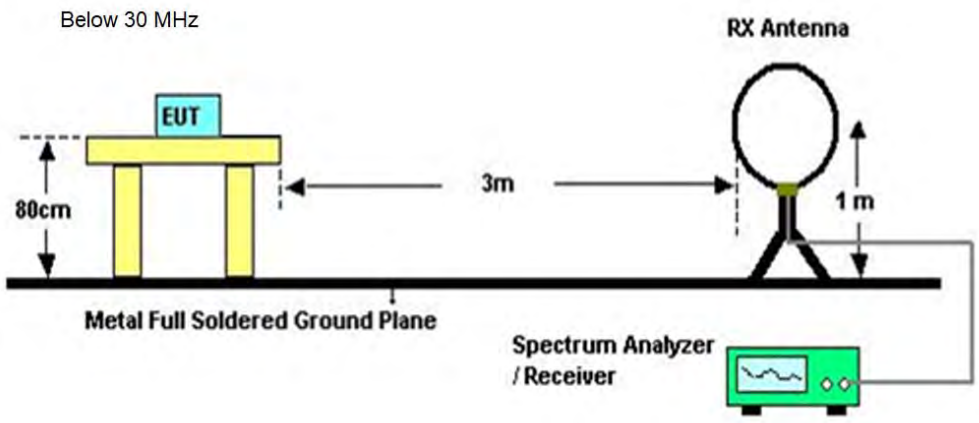
For Radiate Spurious emission 18GHz-26GHz note:

1. Measurement = Reading Level + Correct Factor.
2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
3. Peak: Peak detector.
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

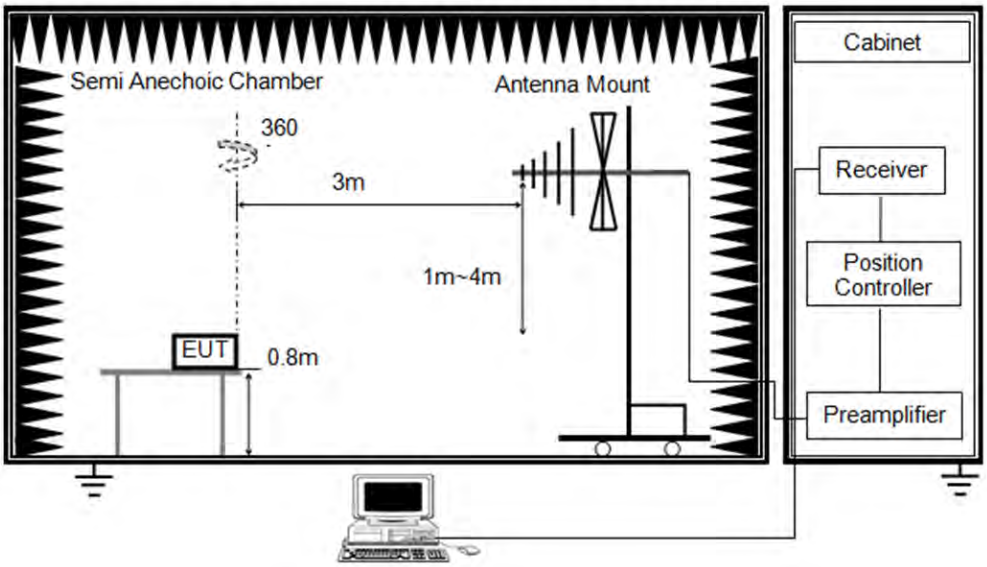
For Radiate Spurious emission 30MHz-1GHz note:

1. Result Level = Read Level + Correct Factor.
2. If the Peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

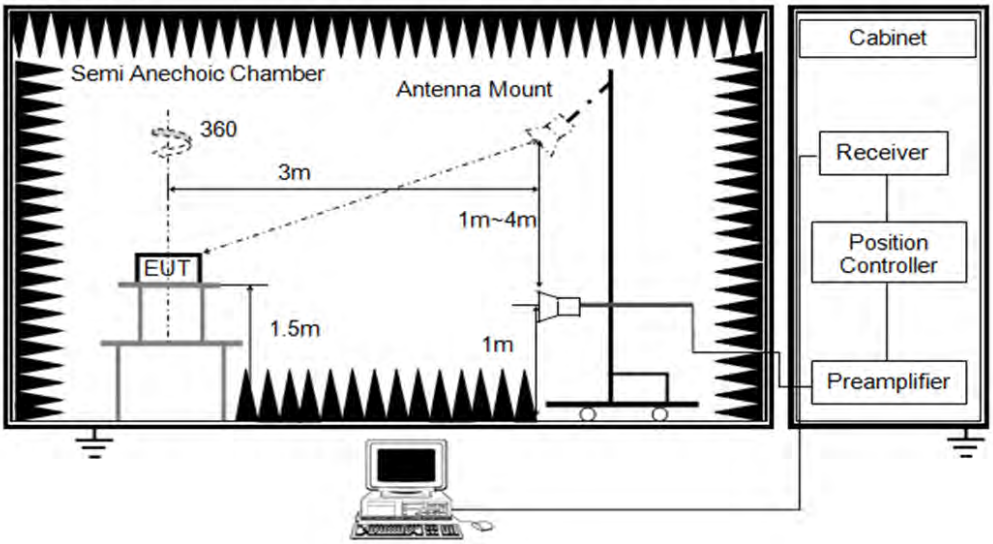
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	25.2℃	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.27 V

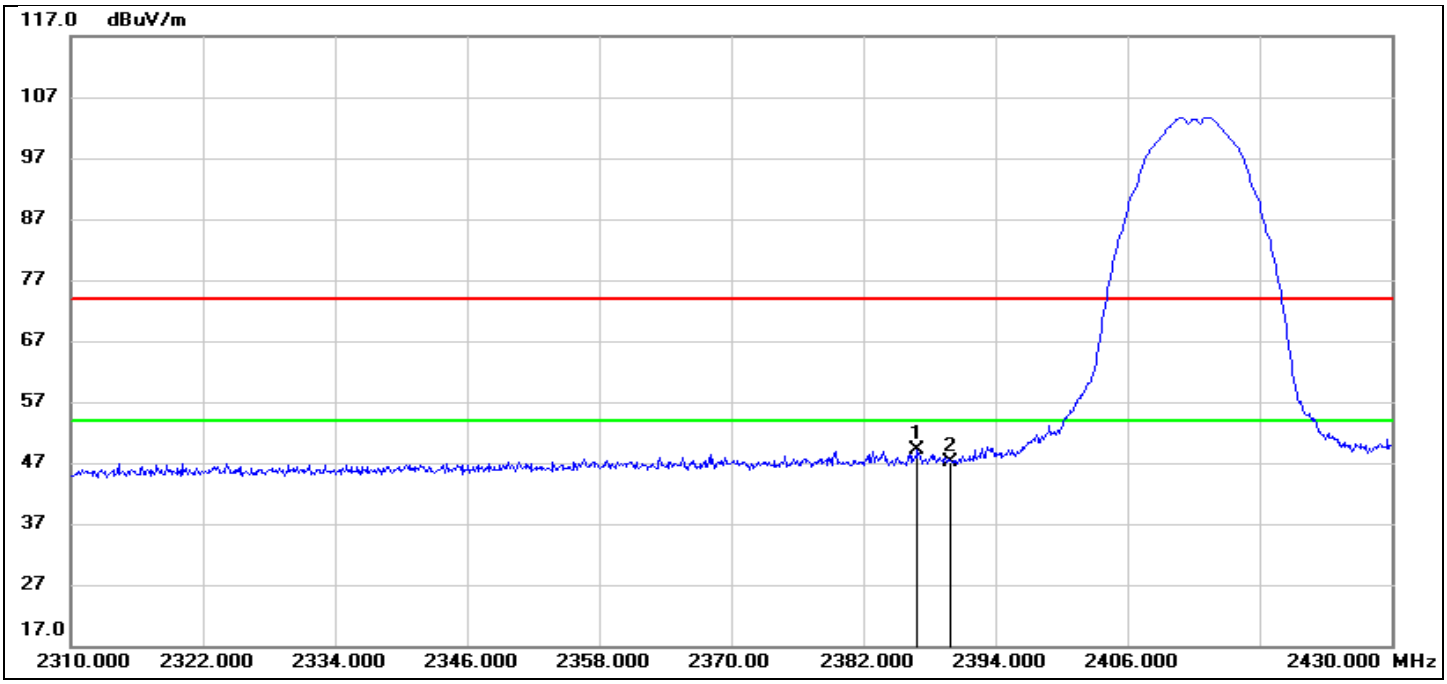
TEST DATE / ENGINEER

Test Date	Feb. 10, 2023	Test By	Rex Huang

TEST RESULTS

8.1. RESTRICTED BANDEDGE

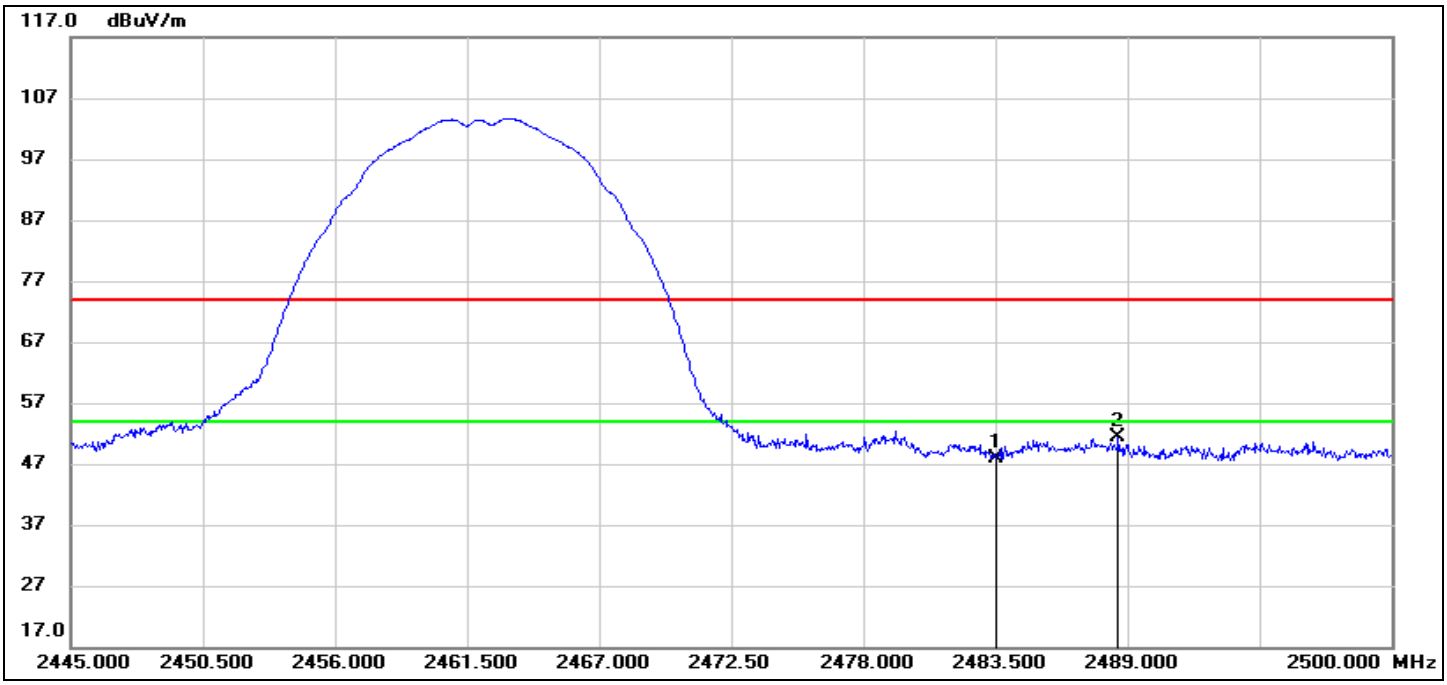
Test Mode:	802.11b PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.920	16.86	32.15	49.01	74.00	-24.99	peak
2	2390.000	14.87	32.16	47.03	74.00	-26.97	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.

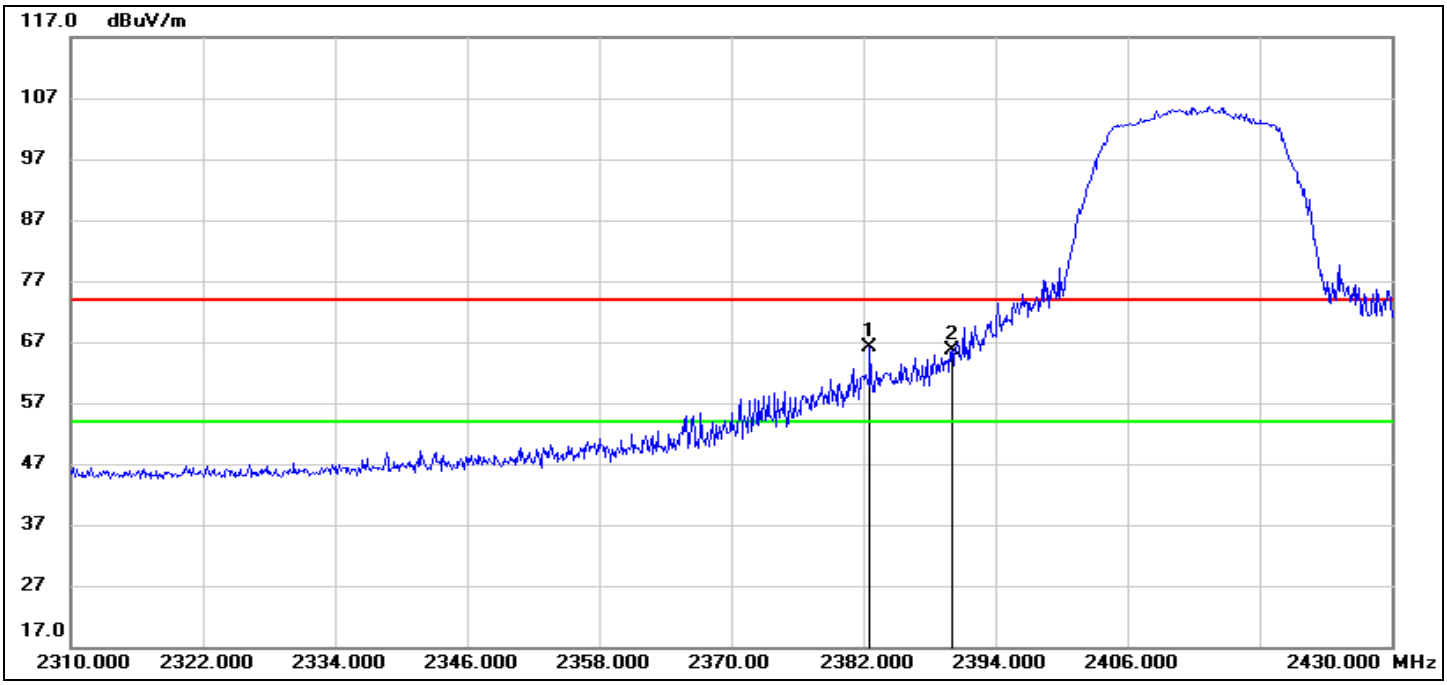
Test Mode:	802.11b PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.51	32.44	47.95	74.00	-26.05	peak
2	2488.615	18.81	32.46	51.27	74.00	-22.73	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.

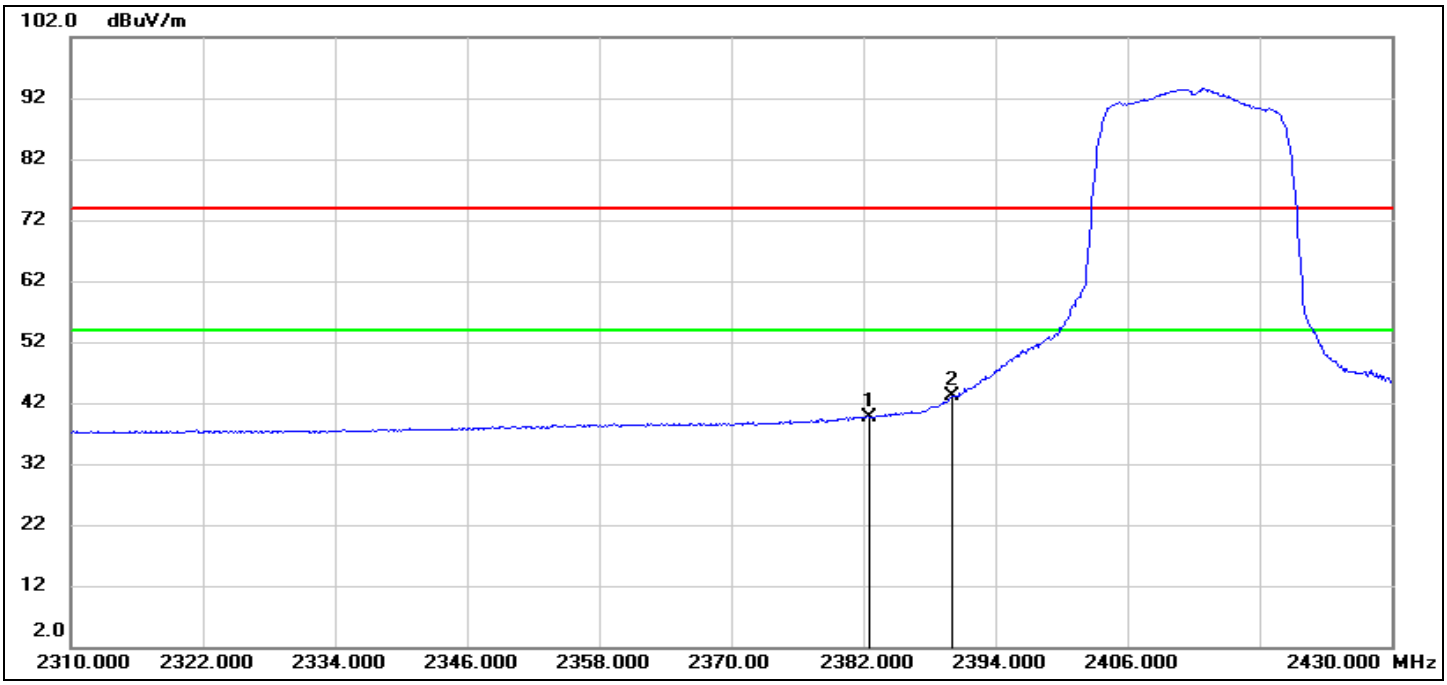
Test Mode:	802.11g PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.600	34.00	32.13	66.13	74.00	-7.87	peak
2	2390.000	33.51	32.16	65.67	74.00	-8.33	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.

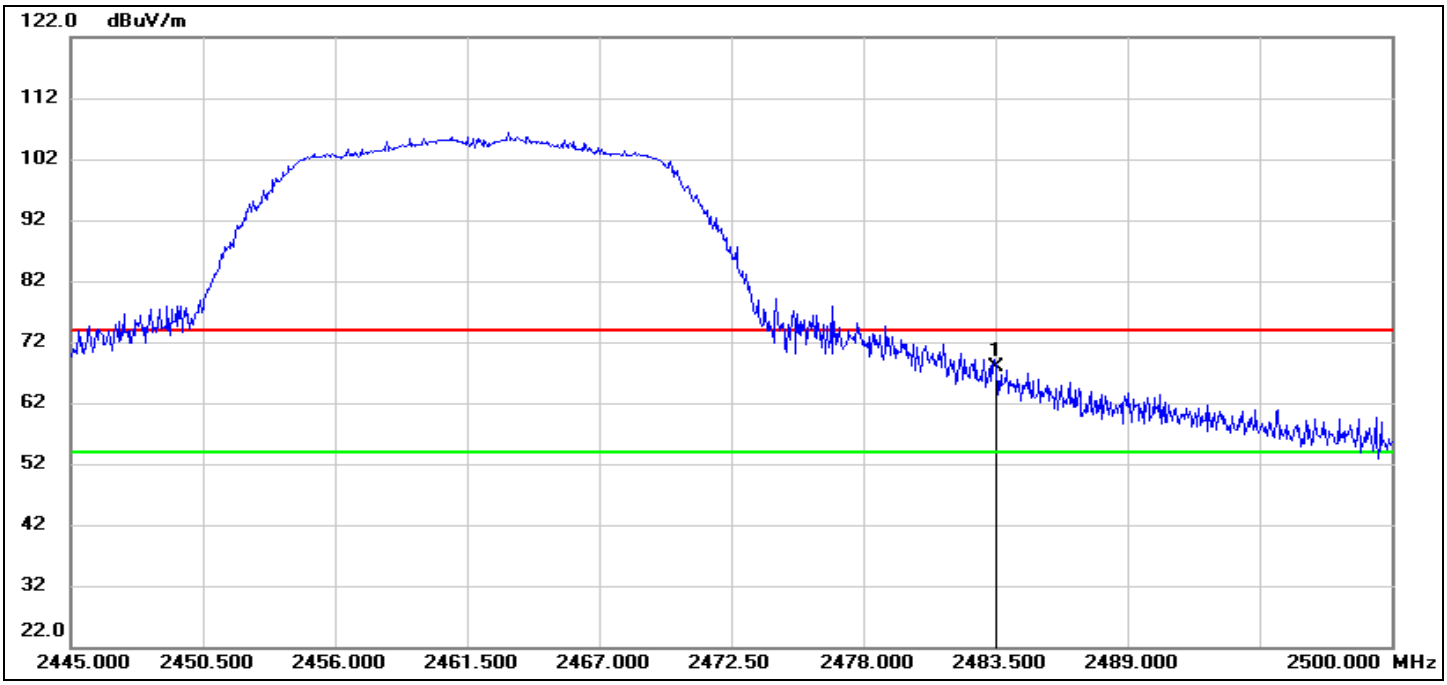
Test Mode:	802.11g AV	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.600	7.53	32.13	39.66	54.00	-14.34	AVG
2	2390.000	10.87	32.16	43.03	54.00	-10.97	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. 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.

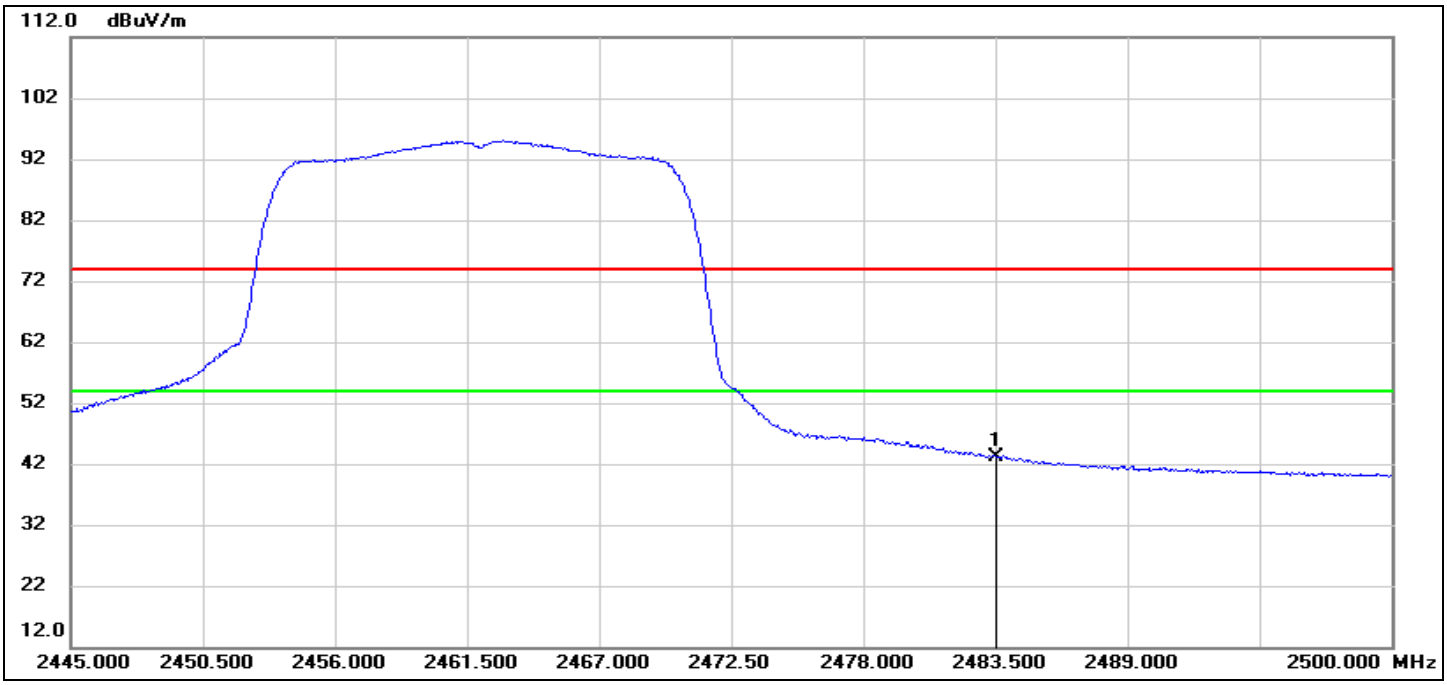
Test Mode:	802.11g PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.36	32.44	67.80	74.00	-6.20	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.

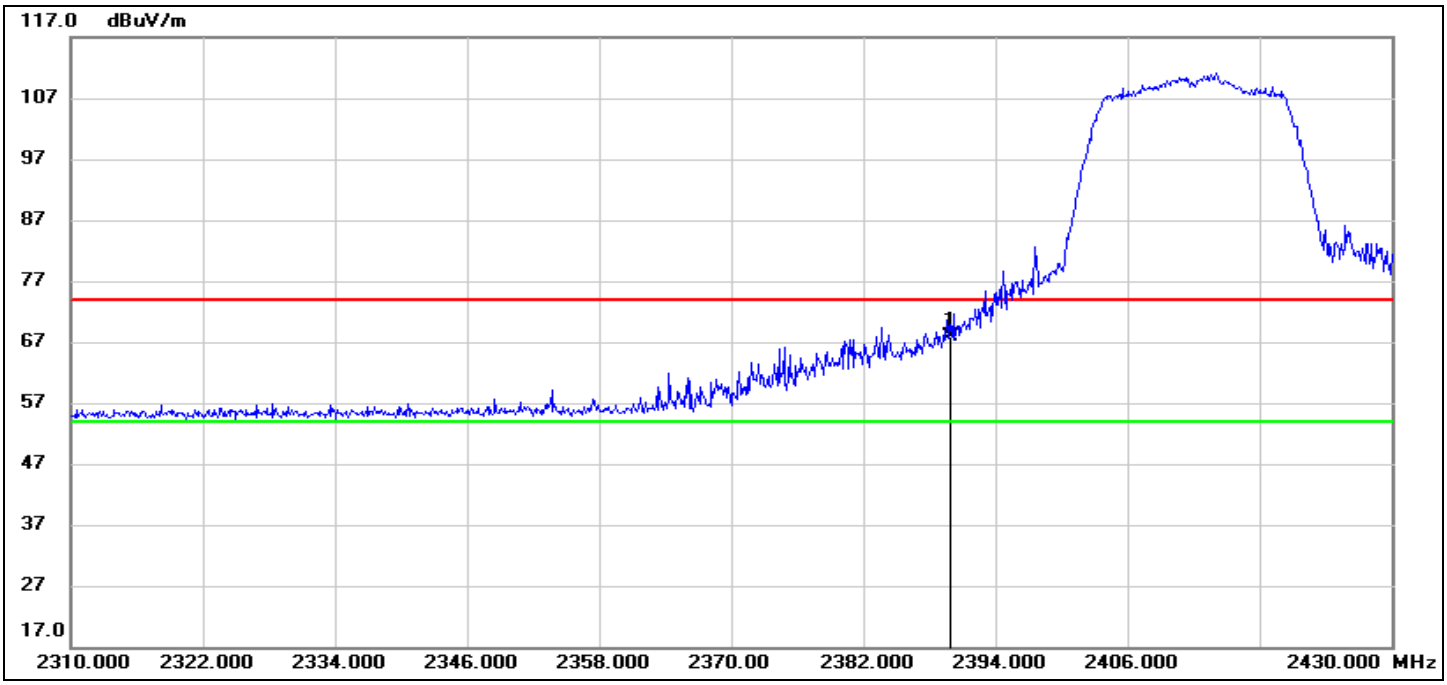
Test Mode:	802.11g AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	10.59	32.44	43.03	54.00	-10.97	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. 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.

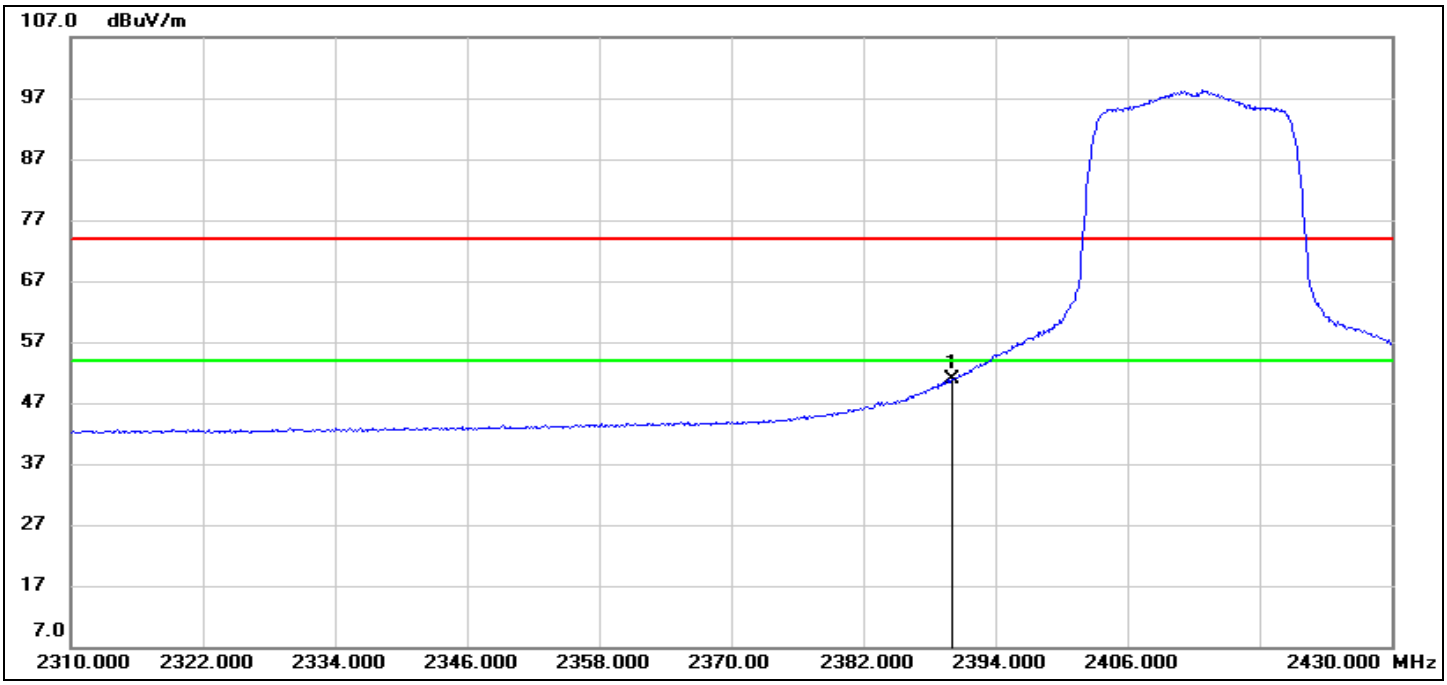
Test Mode:	802.11n HT20 PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	35.69	32.16	67.85	74.00	-6.15	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.

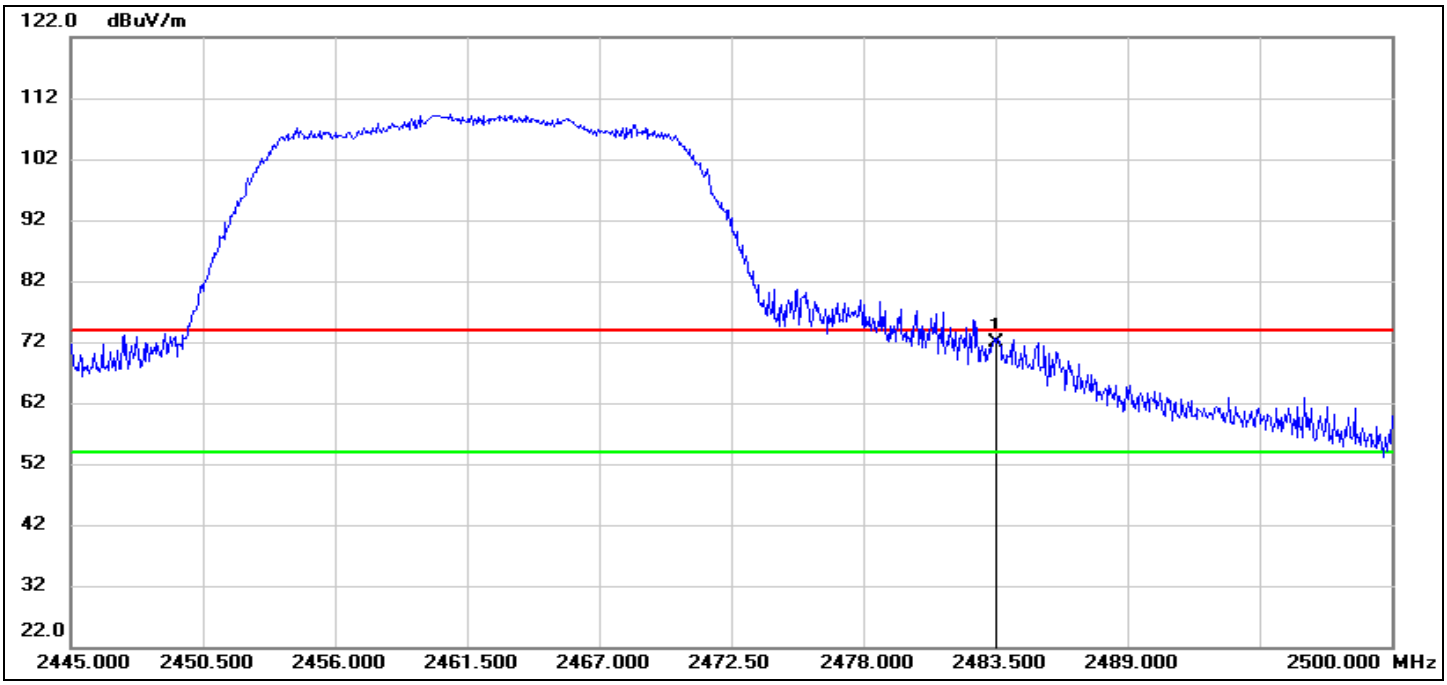
Test Mode:	802.11n HT20 AV	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	18.70	32.16	50.86	54.00	-3.14	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. 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.

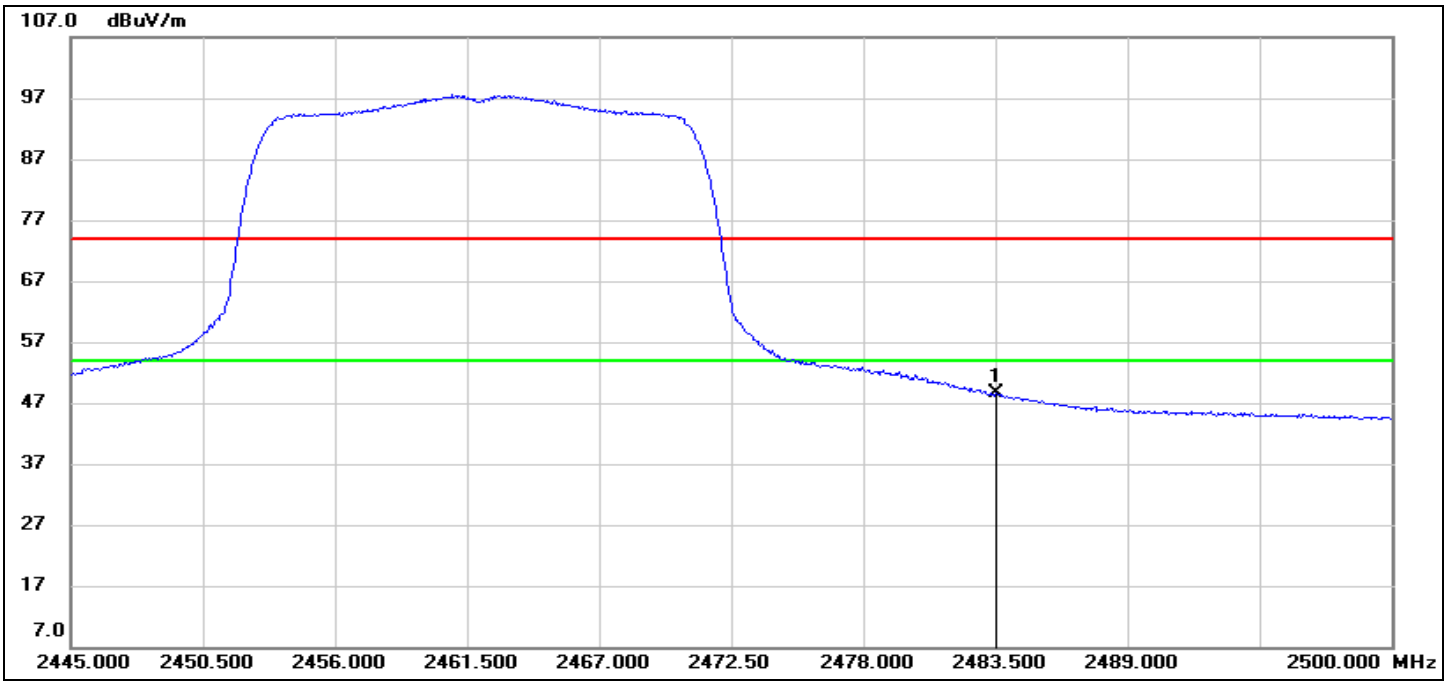
Test Mode:	802.11n HT20 PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	39.37	32.44	71.81	74.00	-2.19	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.

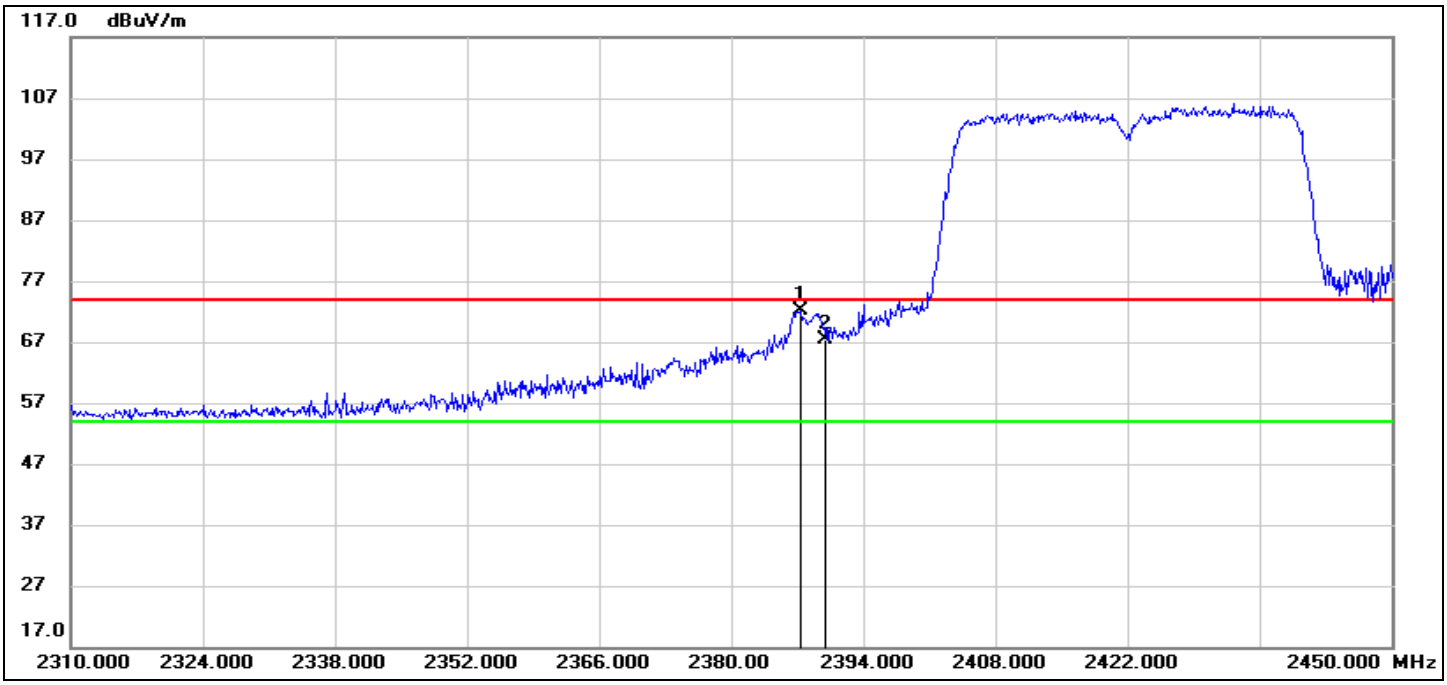
Test Mode:	802.11n HT20 AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.17	32.44	48.61	54.00	-5.39	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. 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.

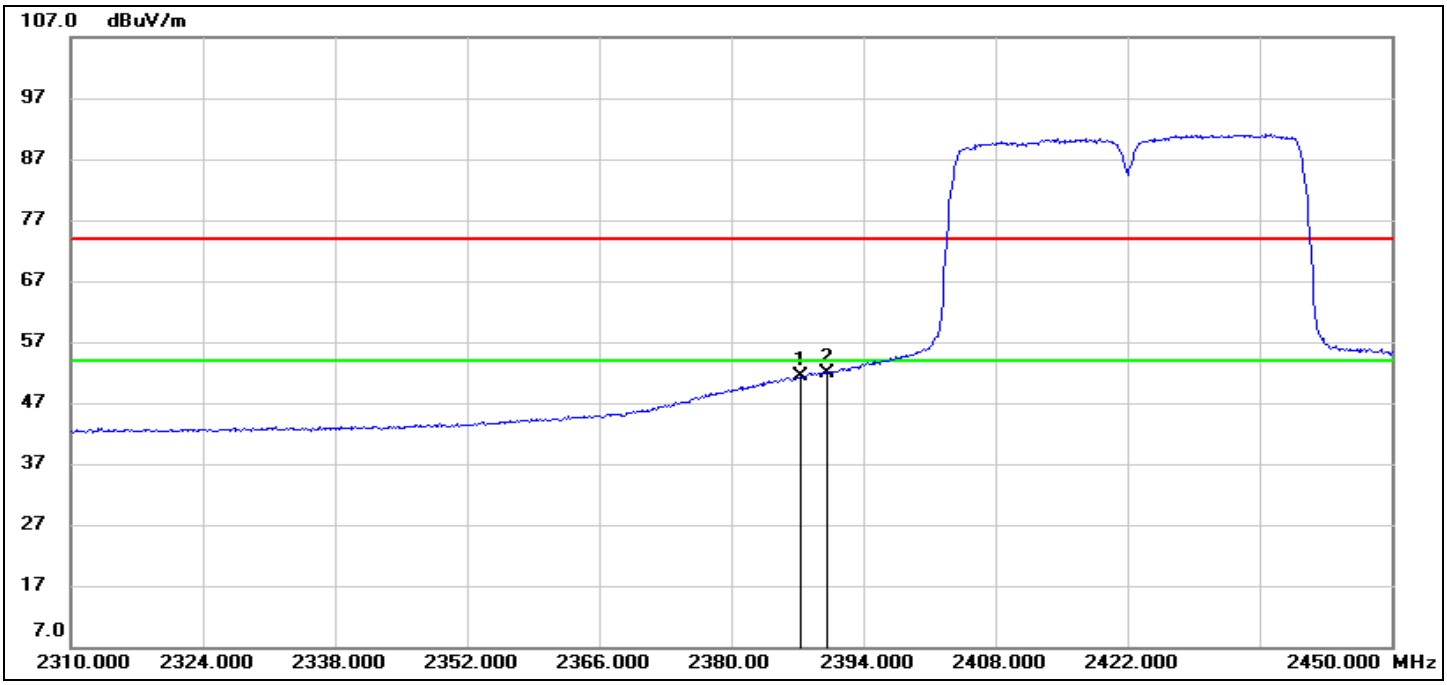
Test Mode:	802.11n HT40 PK	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.280	40.03	32.15	72.18	74.00	-1.82	peak
2	2390.000	35.33	32.16	67.49	74.00	-6.51	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.

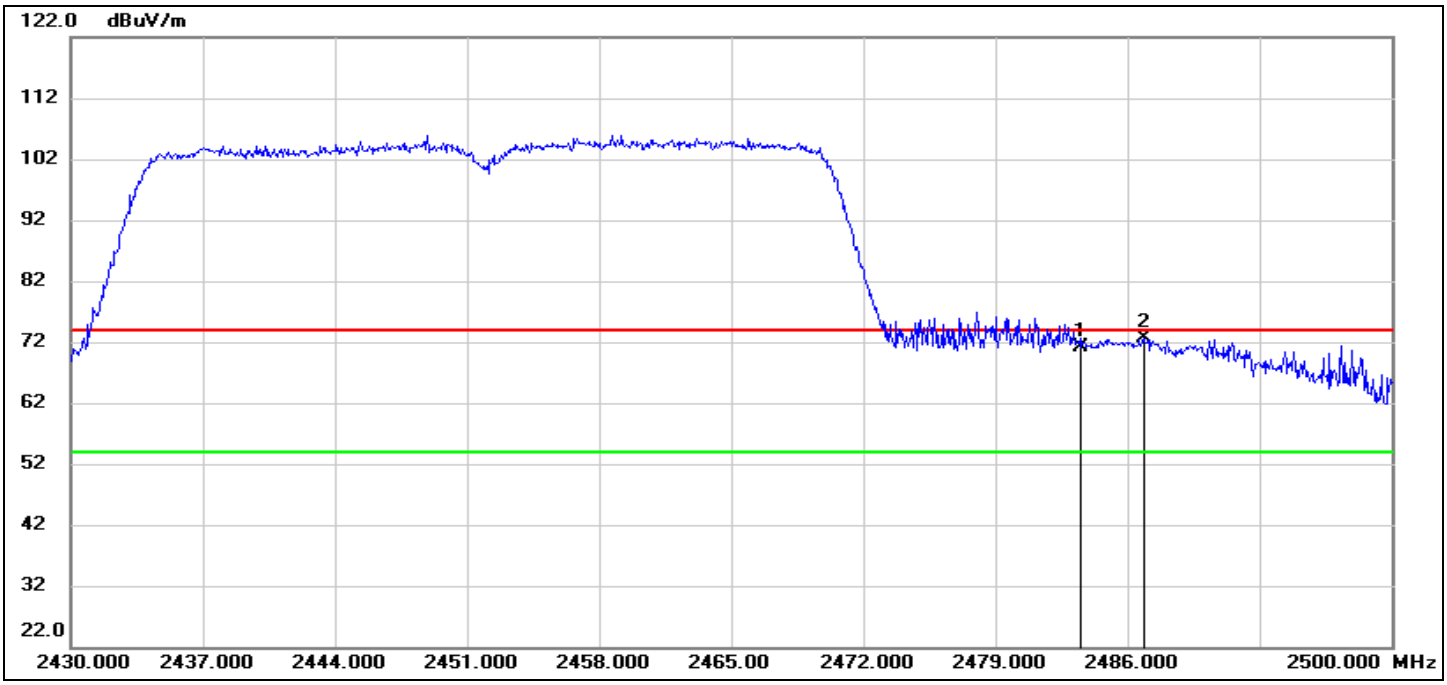
Test Mode:	802.11n HT40 AV	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.280	19.14	32.15	51.29	54.00	-2.71	AVG
2	2390.000	19.68	32.16	51.84	54.00	-2.16	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. 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.

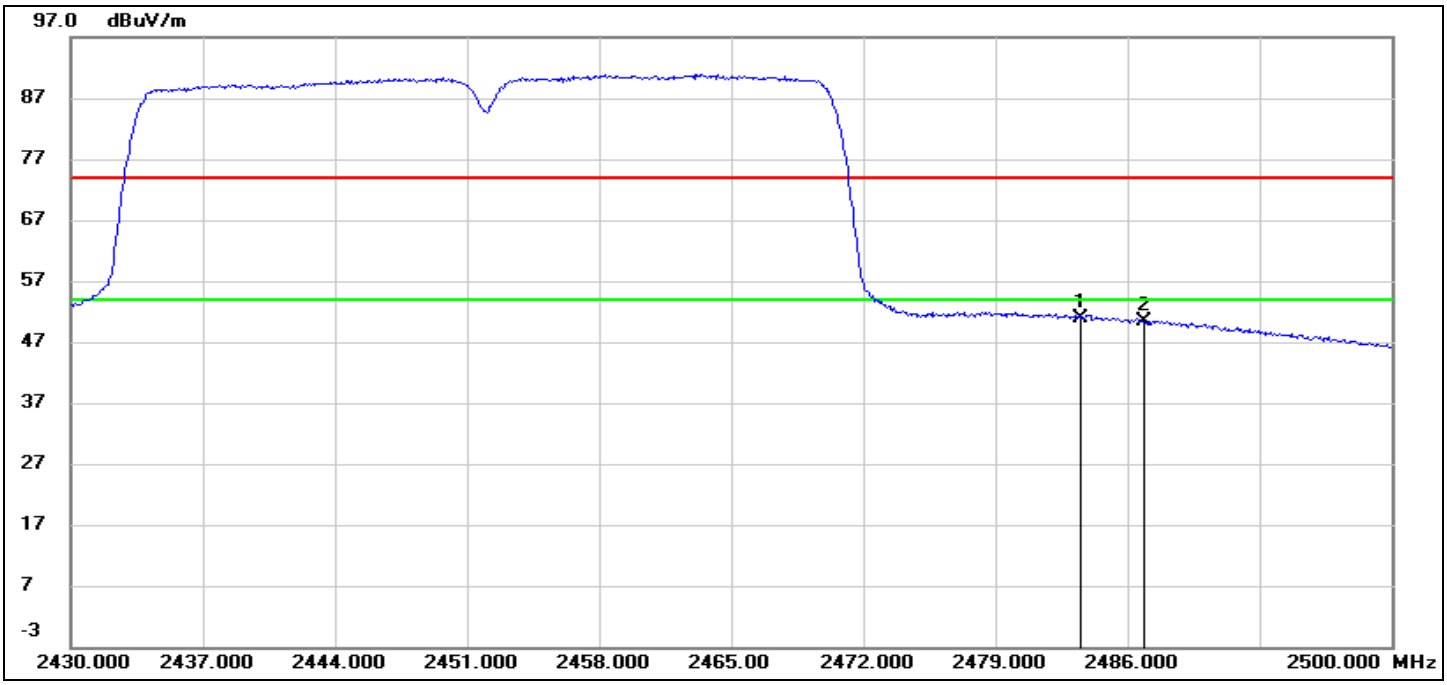
Test Mode:	802.11n HT40 PK	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.64	32.44	71.08	74.00	-2.92	peak
2	2486.840	40.26	32.45	72.71	74.00	-1.29	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.

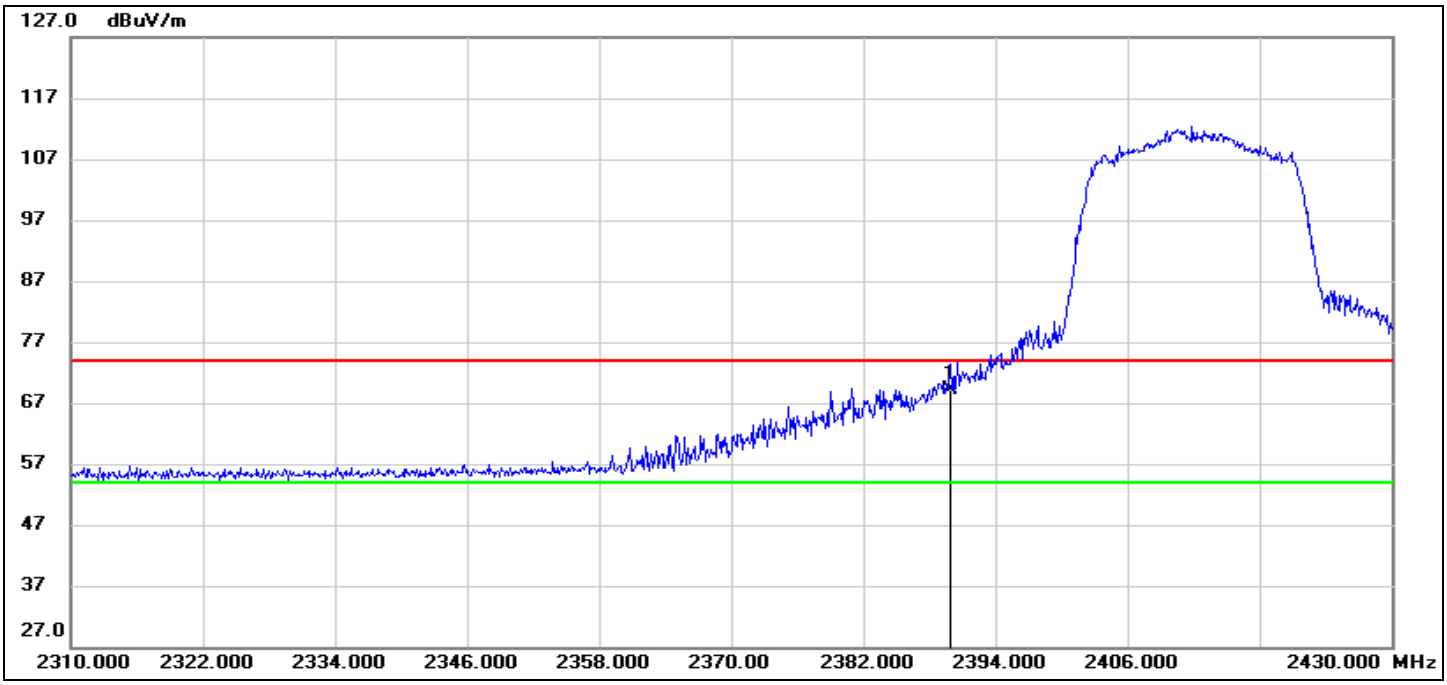
Test Mode:	802.11n HT40 AV	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.45	32.44	50.89	54.00	-3.11	AVG
2	2486.840	17.96	32.45	50.41	54.00	-3.59	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. 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.

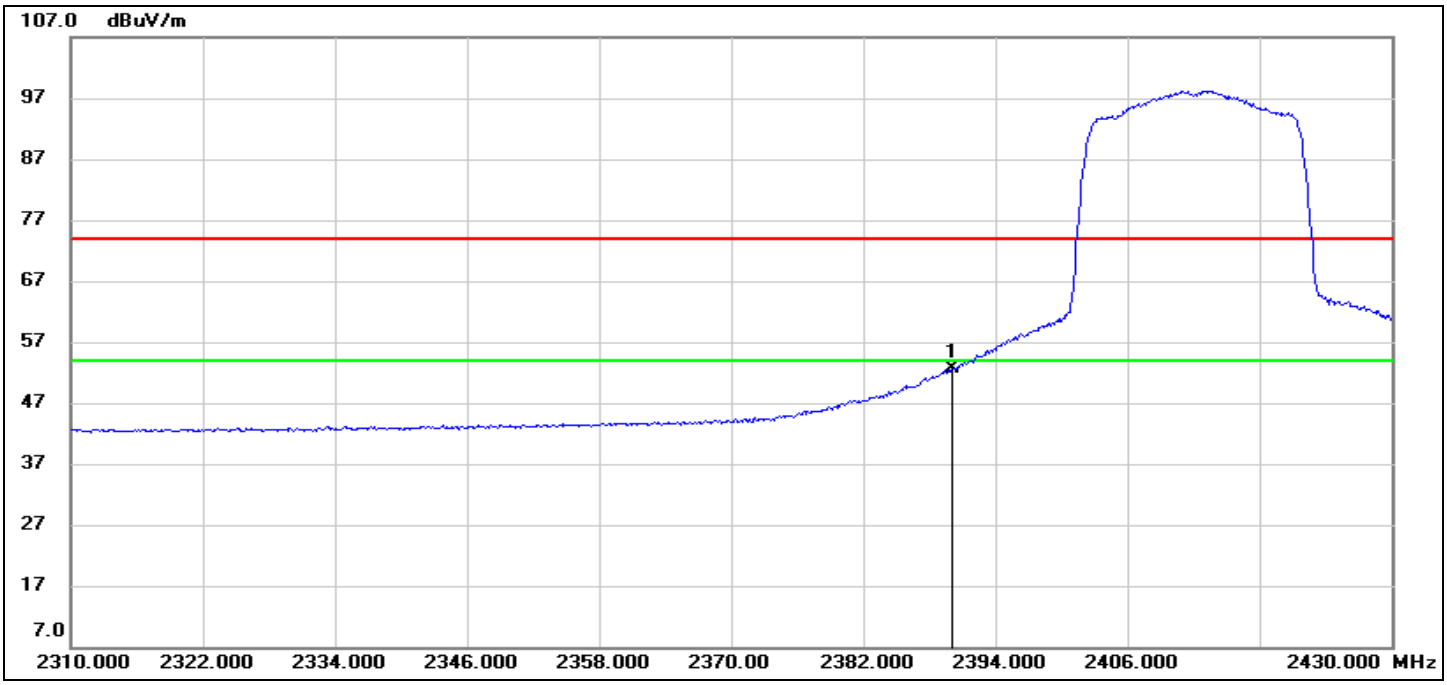
Test Mode:	802.11ax HE20 PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	37.09	32.16	69.25	74.00	-4.75	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.

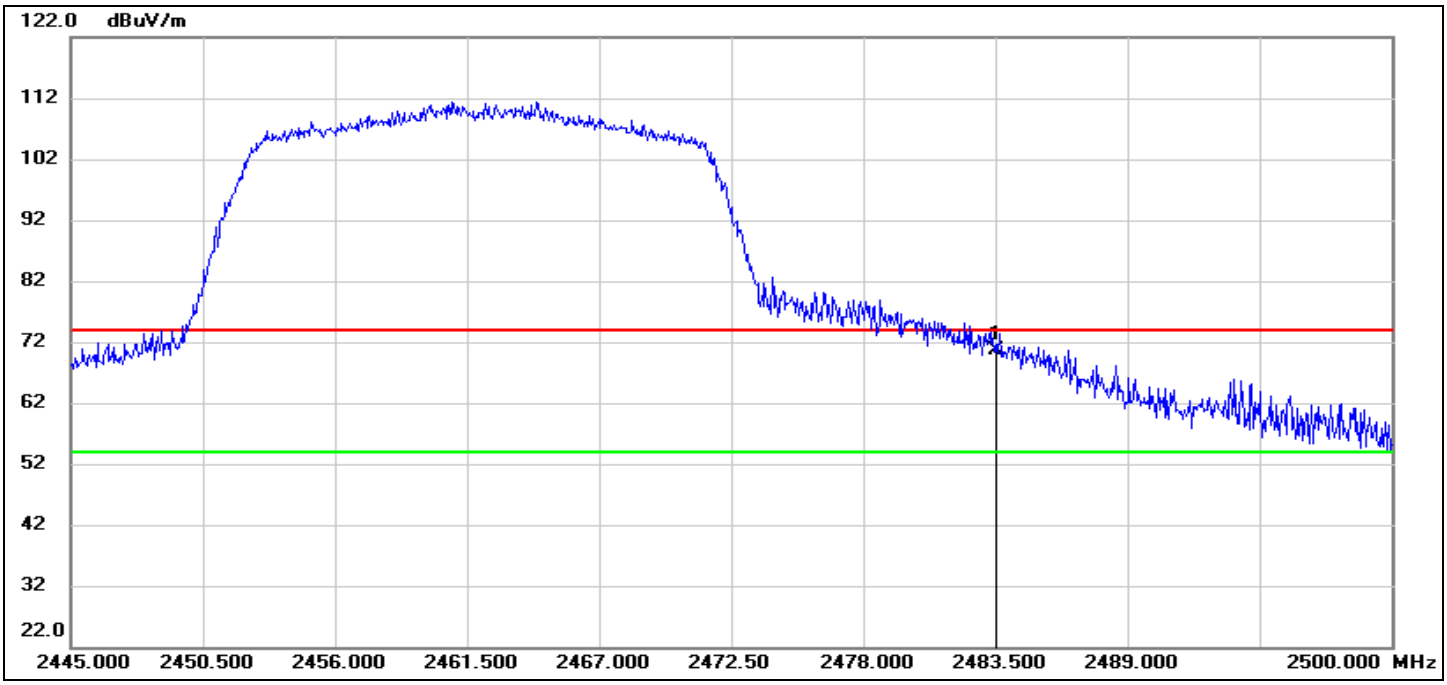
Test Mode:	802.11ax HE20 AV	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	20.52	32.16	52.68	54.00	-1.32	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. 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.

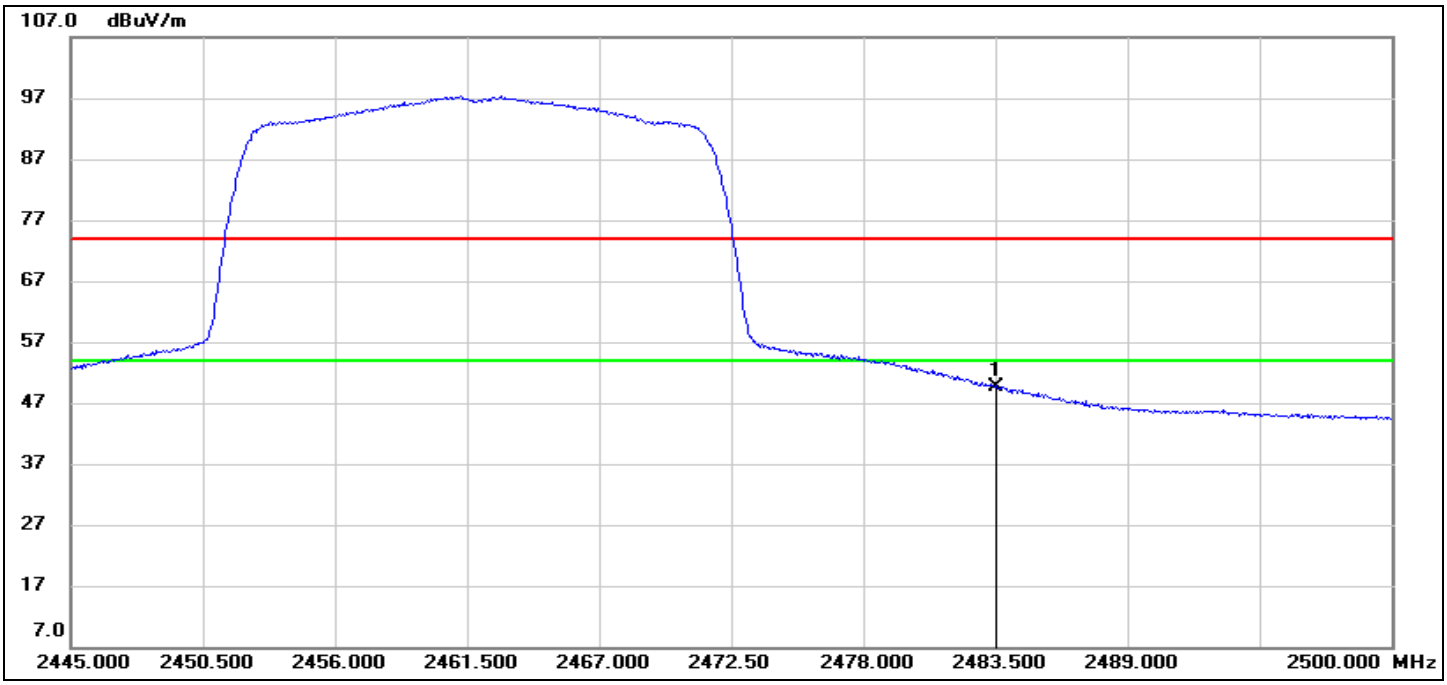
Test Mode:	802.11ax HE20 PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.16	32.44	70.60	74.00	-3.40	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.

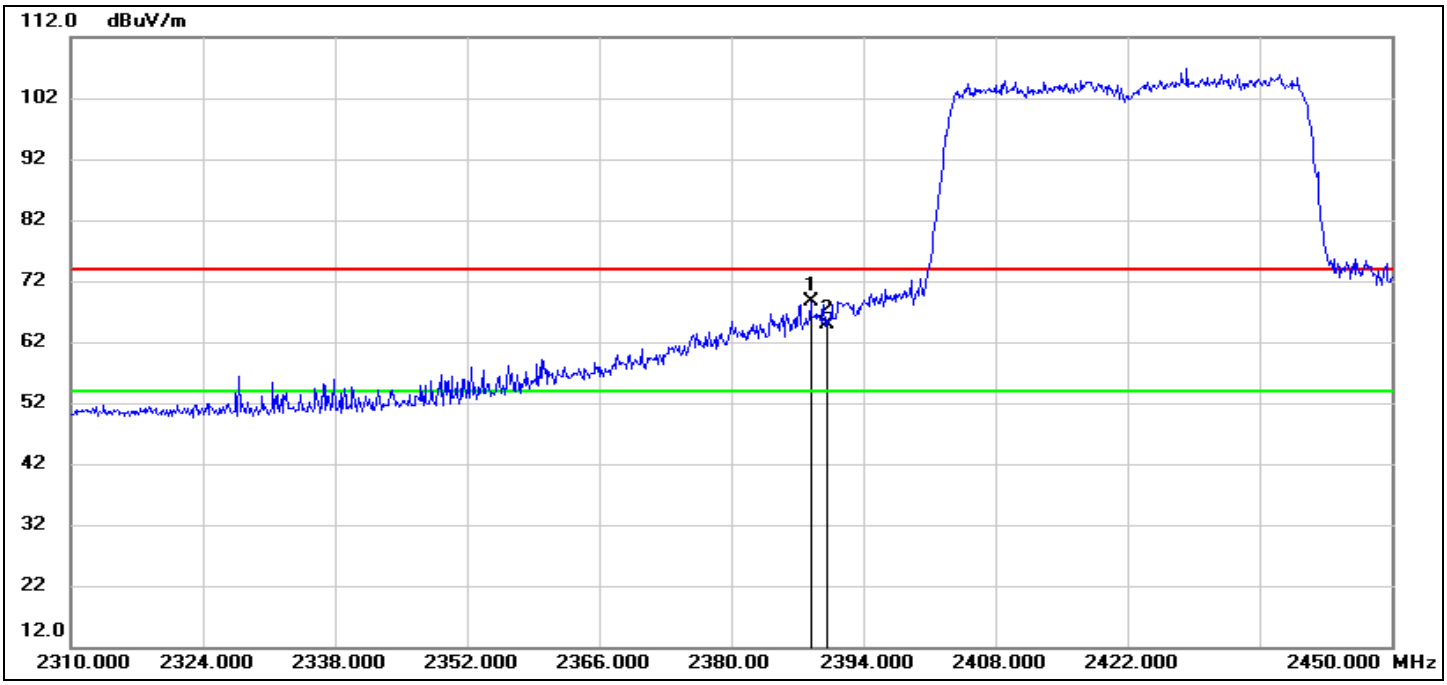
Test Mode:	802.11ax HE20 AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.08	32.44	49.52	54.00	-4.48	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. 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.

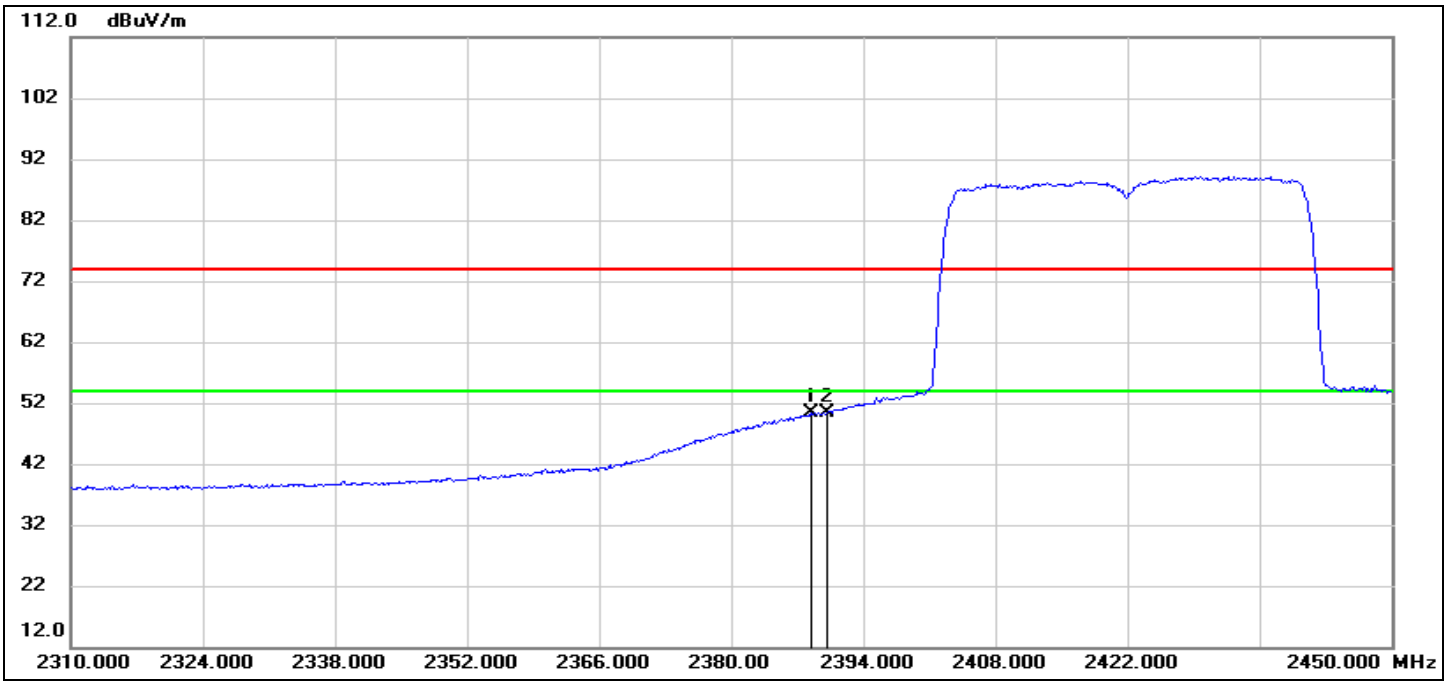
Test Mode:	802.11ax HE40 PK	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.400	36.40	32.16	68.56	74.00	-5.44	peak
2	2390.000	32.83	32.16	64.99	74.00	-9.01	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.

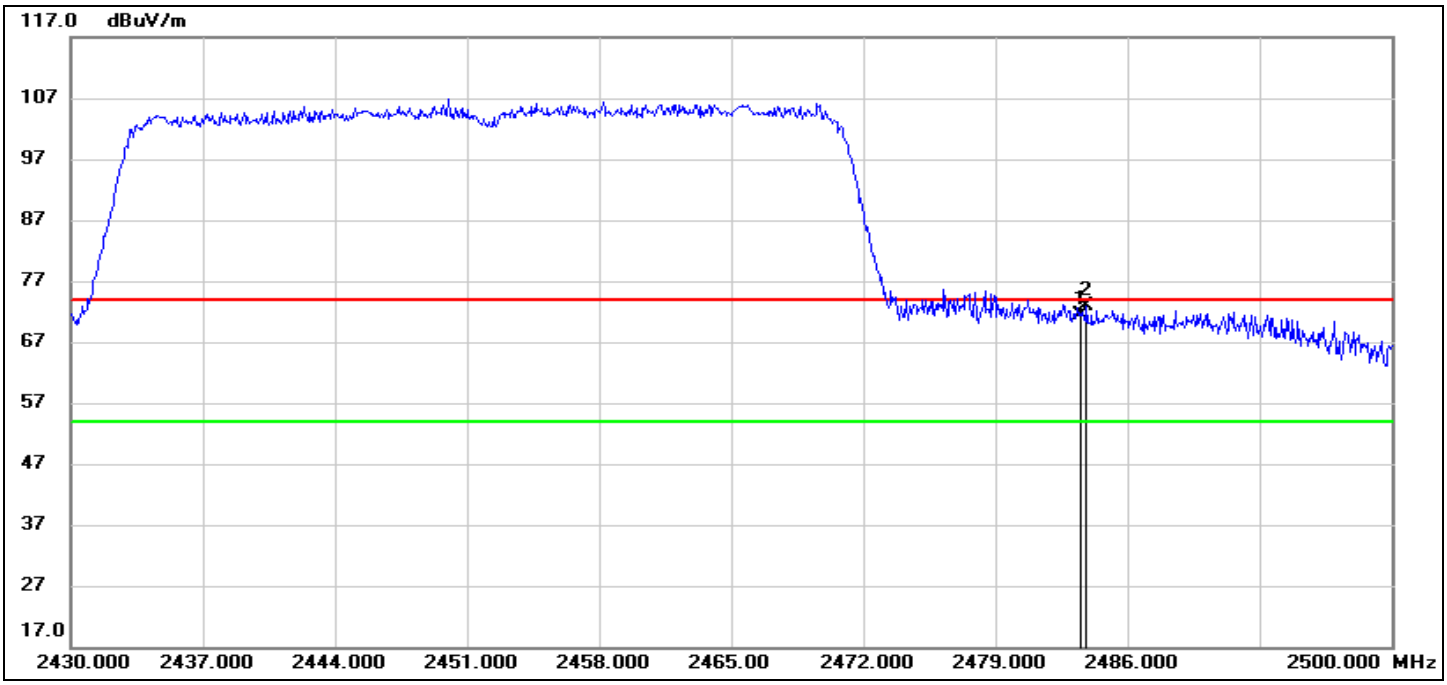
Test Mode:	802.11ax HE40 AV	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.400	18.12	32.16	50.28	54.00	-3.72	AVG
2	2390.000	18.12	32.16	50.28	54.00	-3.72	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. 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.

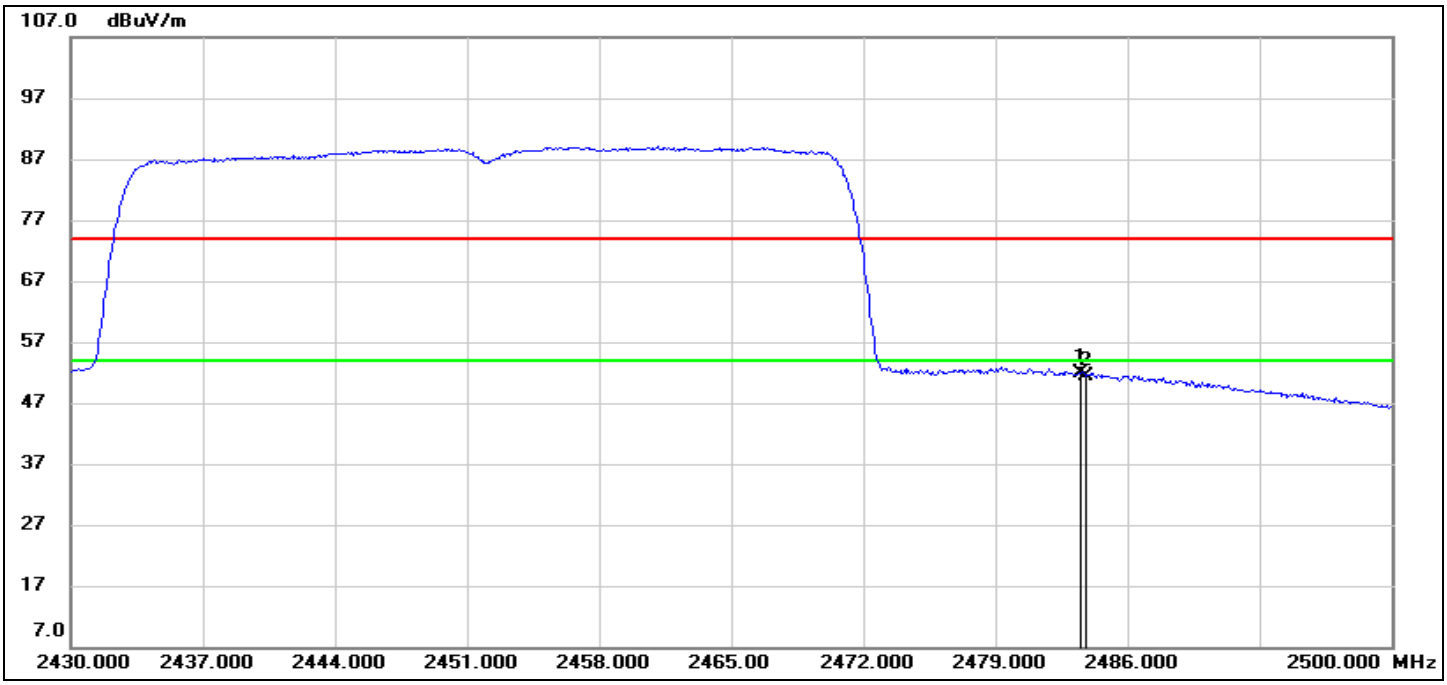
Test Mode:	802.11ax HE40 PK	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.94	32.44	71.38	74.00	-2.62	peak
2	2483.830	40.40	32.44	72.84	74.00	-1.16	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.

Test Mode:	802.11ax HE40 AV	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 7.27 V

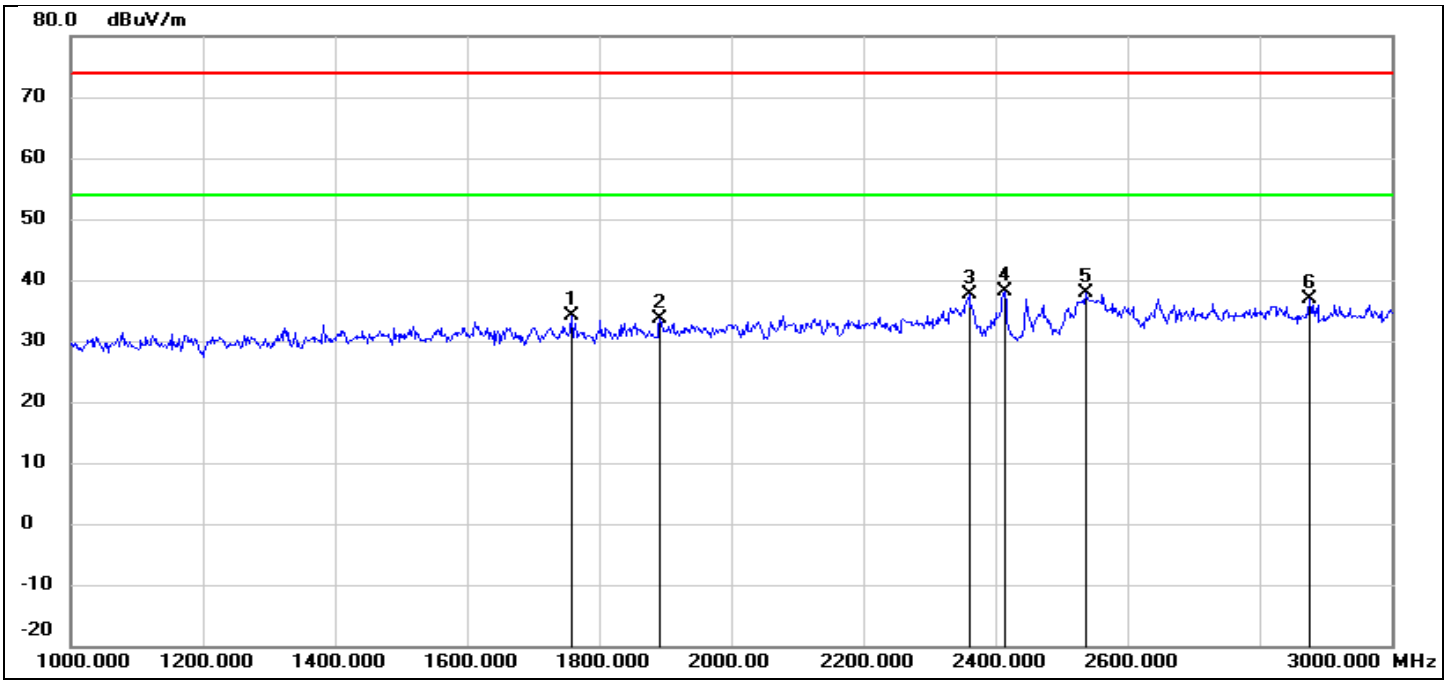


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.32	32.44	51.76	54.00	-2.24	AVG
2	2483.830	19.02	32.44	51.46	54.00	-2.54	AVG

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. 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.

8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

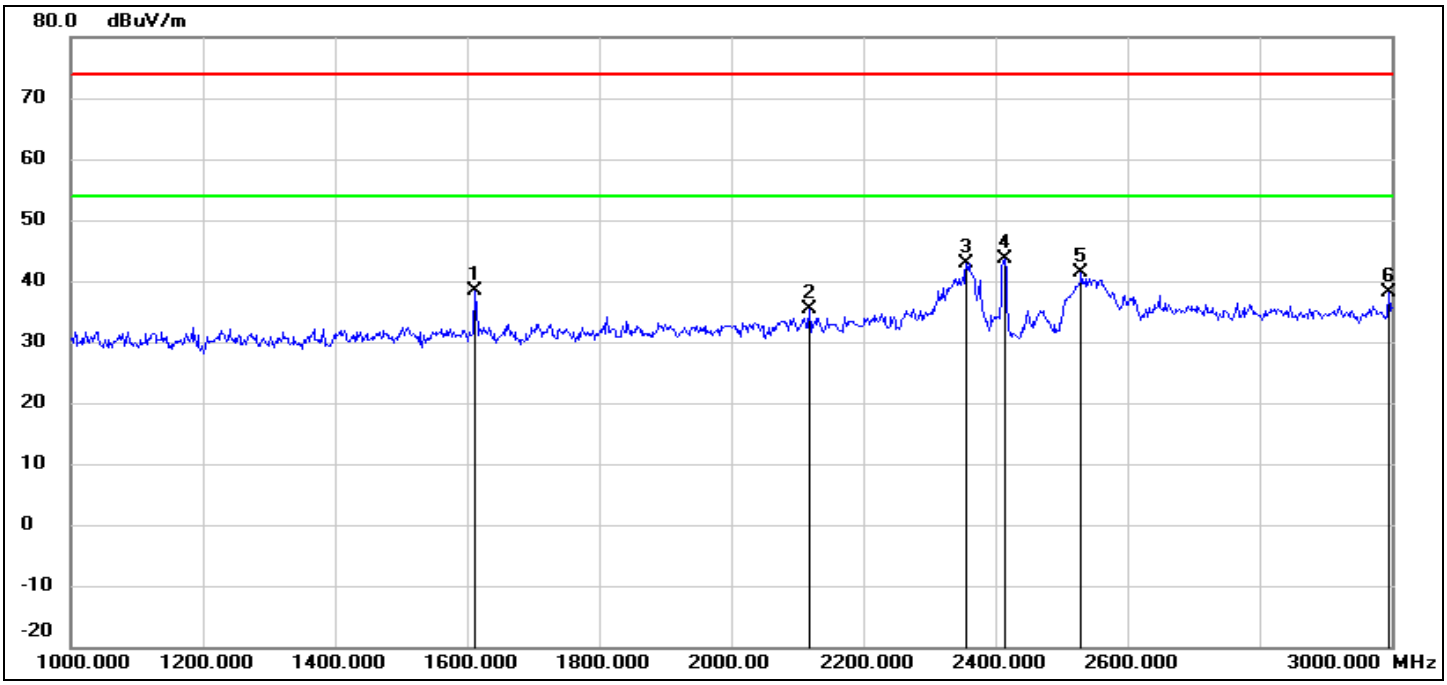
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1758.000	45.95	-11.86	34.09	74.00	-39.91	peak
2	1892.000	45.10	-11.42	33.68	74.00	-40.32	peak
3	2360.000	46.93	-9.21	37.72	74.00	-36.28	peak
4	2414.000	46.96	-8.93	38.03	74.00	-35.97	peak
5	2536.000	46.17	-8.38	37.79	74.00	-36.21	peak
6	2876.000	44.19	-7.35	36.84	74.00	-37.16	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. the marked point 4 is the fundamental frequency.

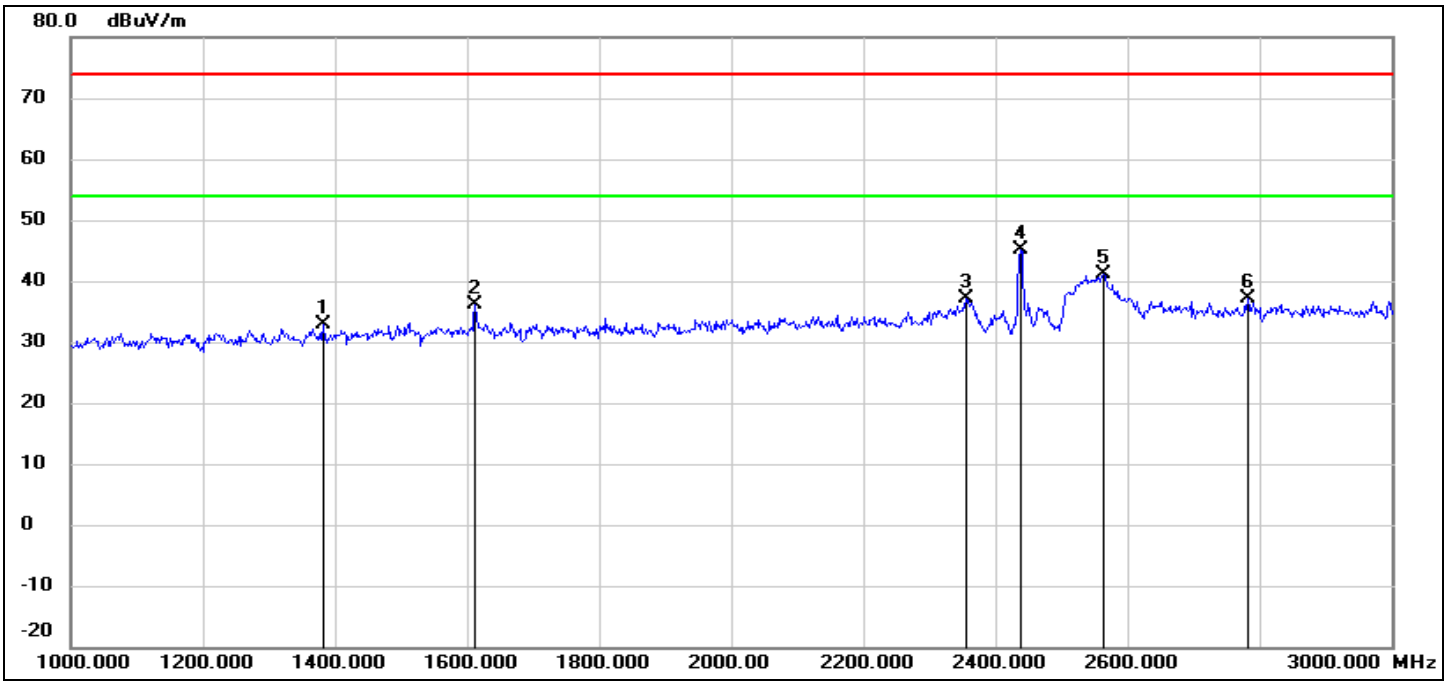
Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1612.000	50.82	-12.34	38.48	74.00	-35.52	peak
2	2118.000	45.82	-10.45	35.37	74.00	-38.63	peak
3	2356.000	52.16	-9.22	42.94	74.00	-31.06	peak
4	2414.000	52.49	-8.93	43.56	74.00	-30.44	peak
5	2530.000	49.72	-8.40	41.32	74.00	-32.68	peak
6	2996.000	45.22	-6.99	38.23	74.00	-35.77	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. the marked point 4 is the fundamental frequency.

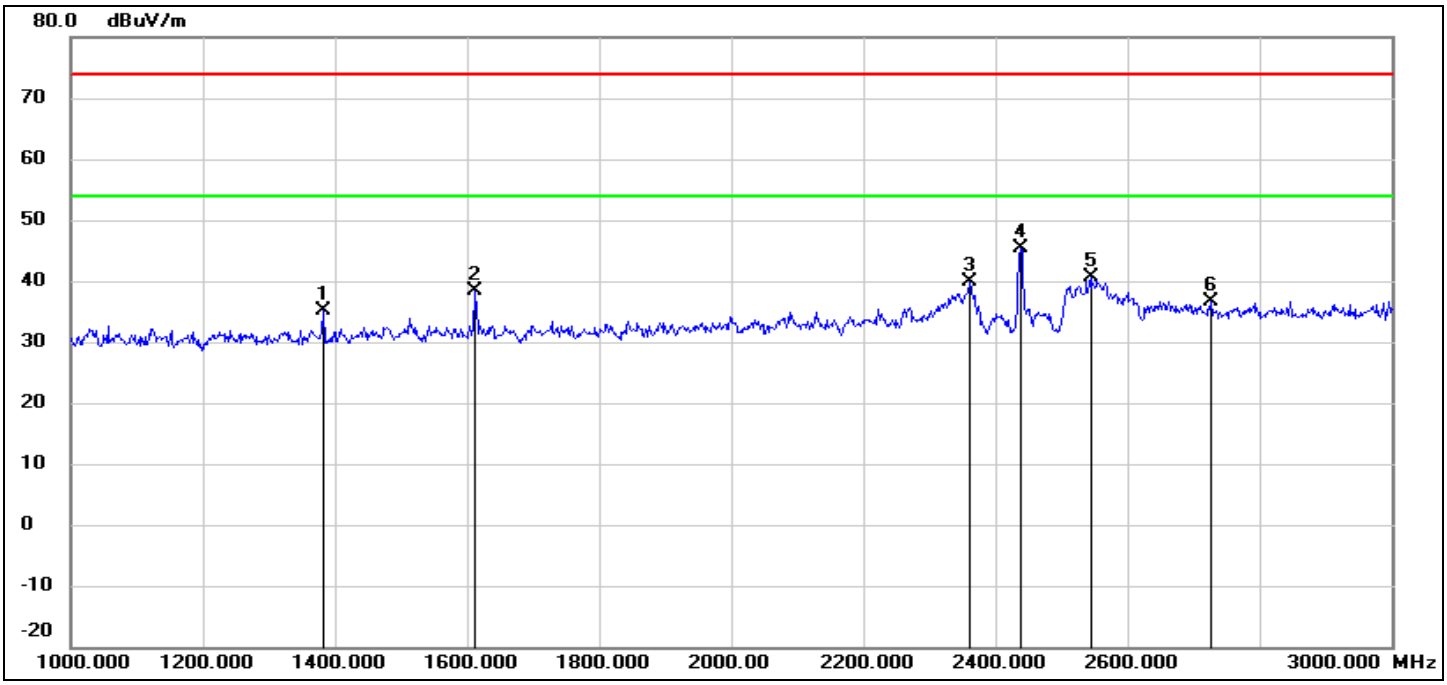
Test Mode:	802.11b	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1382.000	46.13	-13.26	32.87	74.00	-41.13	peak
2	1612.000	48.42	-12.34	36.08	74.00	-37.92	peak
3	2356.000	46.30	-9.22	37.08	74.00	-36.92	peak
4	2438.000	54.01	-8.80	45.21	74.00	-28.79	peak
5	2564.000	49.49	-8.30	41.19	74.00	-32.81	peak
6	2782.000	44.86	-7.63	37.23	74.00	-36.77	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. the marked point 4 is the fundamental frequency.

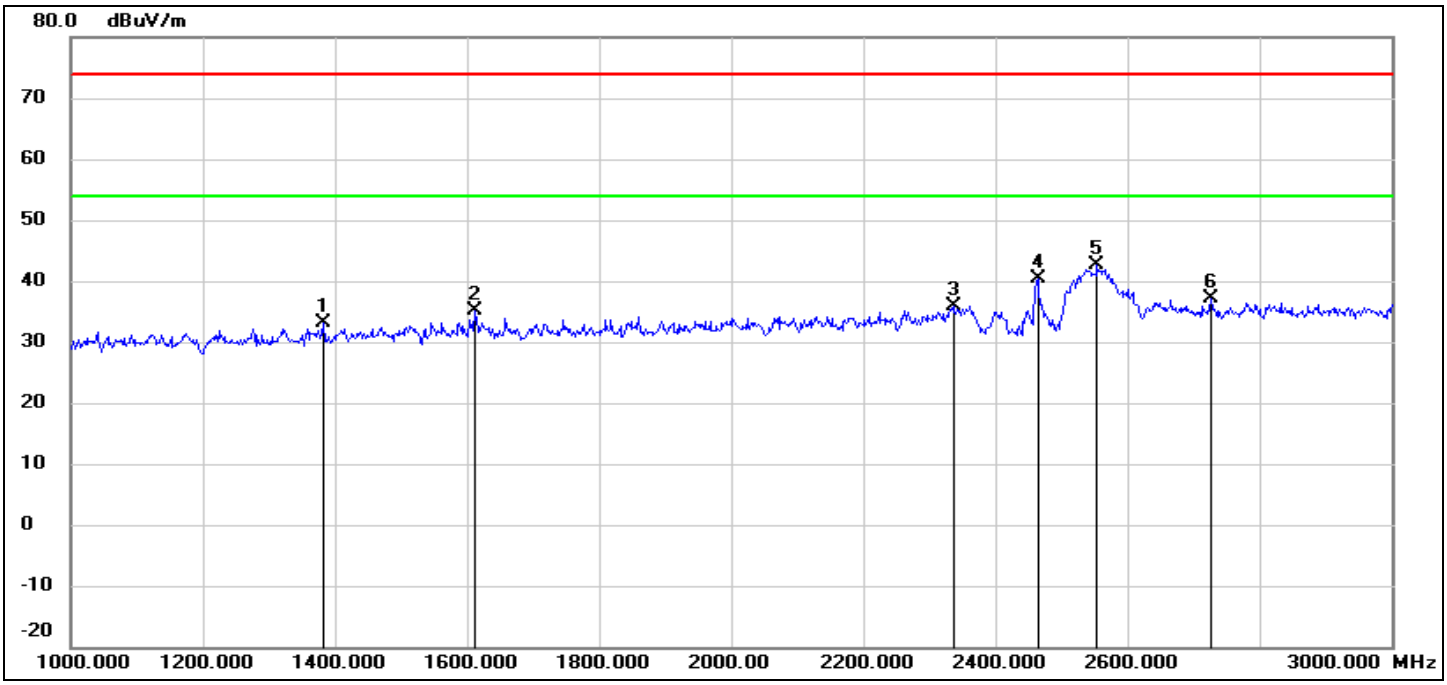
Test Mode:	802.11b	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1382.000	48.32	-13.26	35.06	74.00	-38.94	peak
2	1612.000	50.80	-12.34	38.46	74.00	-35.54	peak
3	2362.000	48.97	-9.20	39.77	74.00	-34.23	peak
4	2438.000	54.23	-8.80	45.43	74.00	-28.57	peak
5	2544.000	48.99	-8.36	40.63	74.00	-33.37	peak
6	2726.000	44.54	-7.80	36.74	74.00	-37.26	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. the marked point 4 is the fundamental frequency.

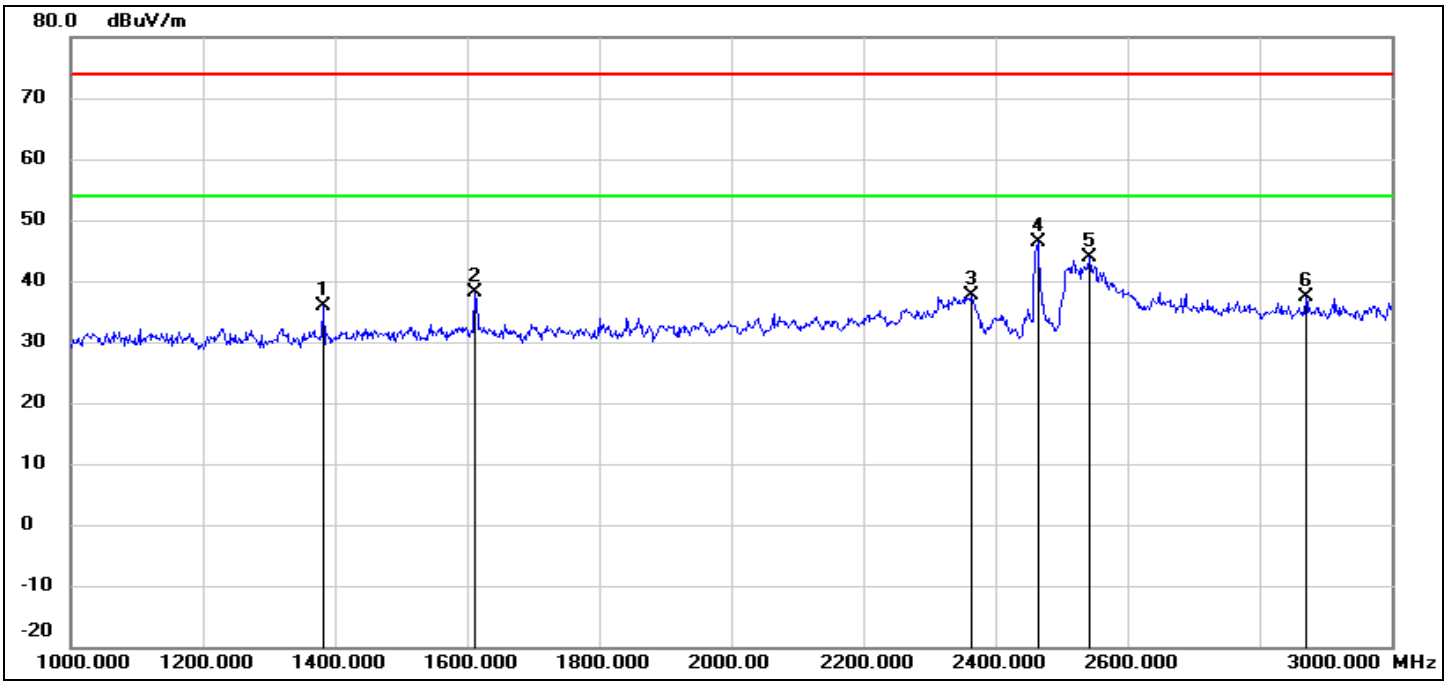
Test Mode:	802.11b	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1382.000	46.50	-13.26	33.24	74.00	-40.76	peak
2	1612.000	47.47	-12.34	35.13	74.00	-38.87	peak
3	2336.000	45.31	-9.33	35.98	74.00	-38.02	peak
4	2464.000	49.09	-8.68	40.41	74.00	-33.59	peak
5	2554.000	50.96	-8.32	42.64	74.00	-31.36	peak
6	2726.000	44.96	-7.80	37.16	74.00	-36.84	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. the marked point 4 is the fundamental frequency.

Test Mode:	802.11b	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



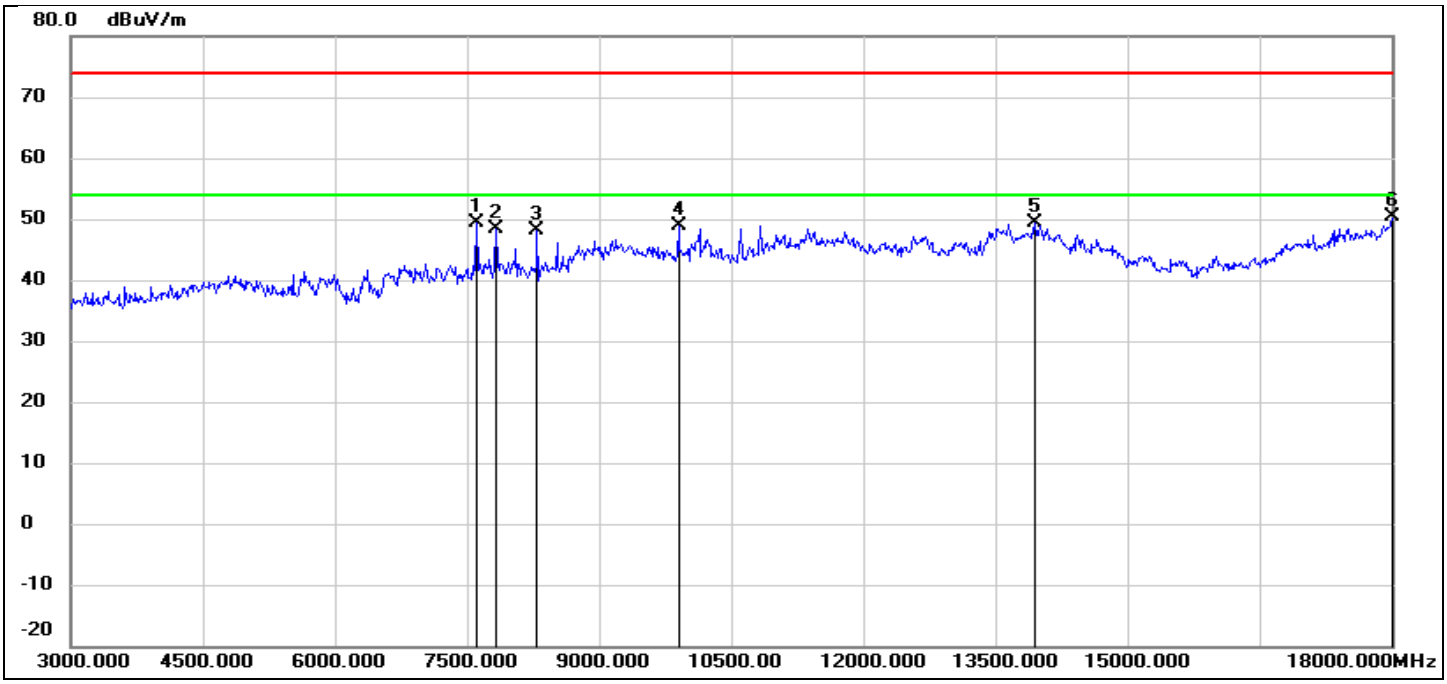
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1382.000	49.13	-13.26	35.87	74.00	-38.13	peak
2	1612.000	50.54	-12.34	38.20	74.00	-35.80	peak
3	2364.000	46.70	-9.19	37.51	74.00	-36.49	peak
4	2464.000	55.18	-8.68	46.50	74.00	-27.50	peak
5	2542.000	52.30	-8.36	43.94	74.00	-30.06	peak
6	2870.000	44.68	-7.37	37.31	74.00	-36.69	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. the marked point 4 is the fundamental frequency.

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

8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

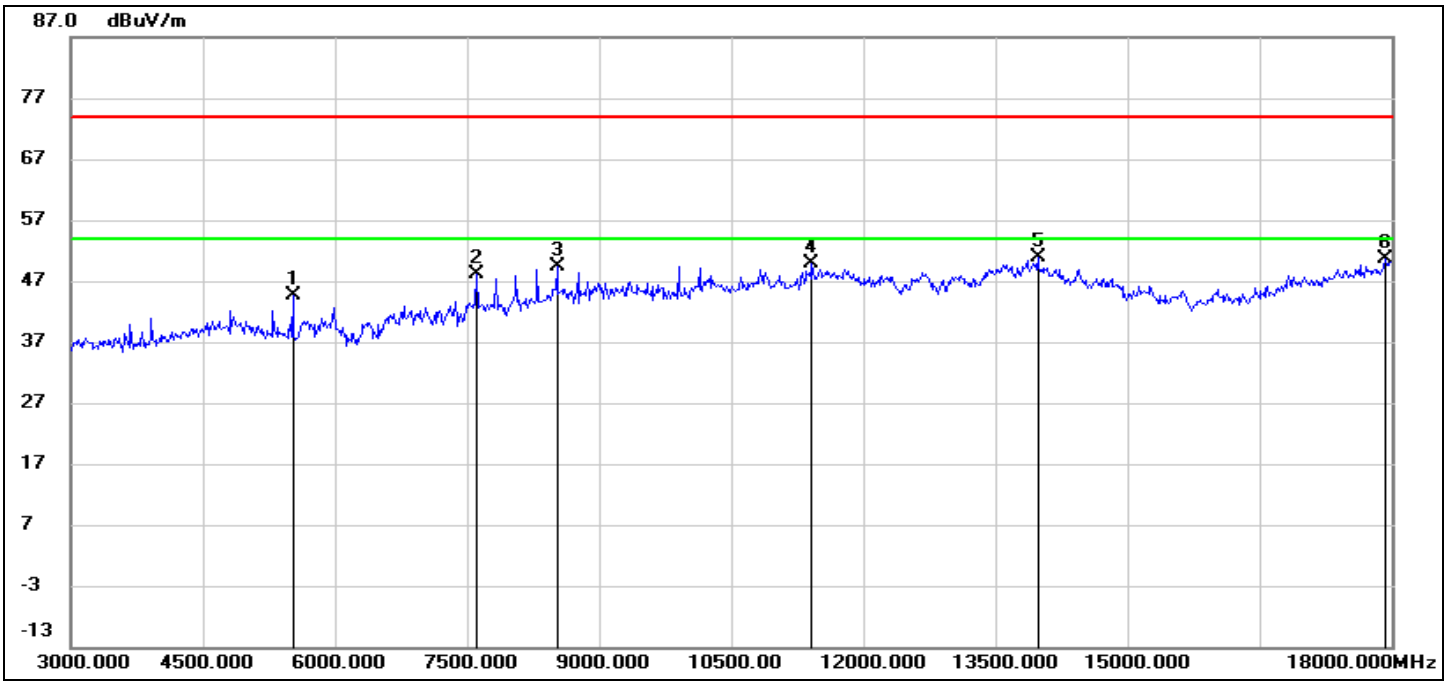
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7605.000	43.06	6.32	49.38	74.00	-24.62	peak
2	7830.000	42.06	6.32	48.38	74.00	-25.62	peak
3	8295.000	41.58	6.62	48.20	74.00	-25.80	peak
4	9900.000	37.22	11.75	48.97	74.00	-25.03	peak
5	13950.000	27.48	21.86	49.34	74.00	-24.66	peak
6	18000.000	24.68	25.69	50.37	74.00	-23.63	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

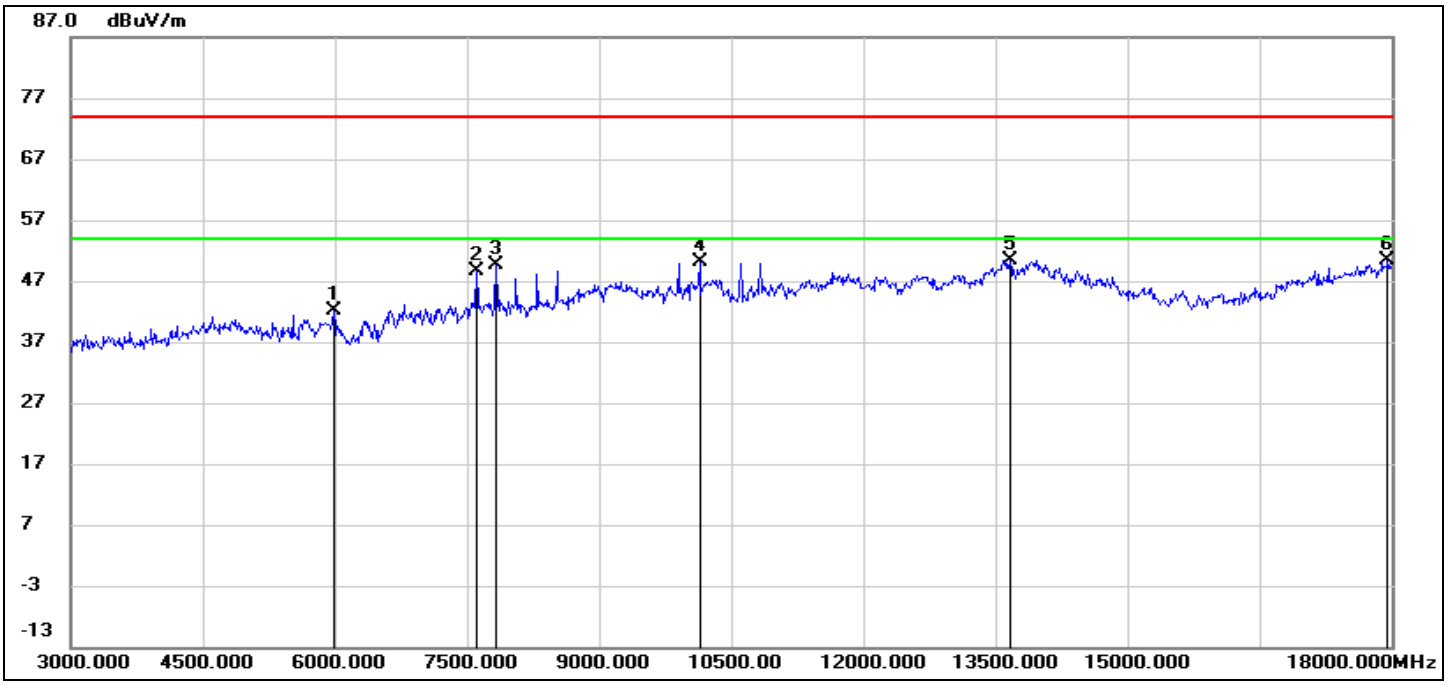
Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	43.61	0.90	44.51	74.00	-29.49	peak
2	7605.000	41.81	6.32	48.13	74.00	-25.87	peak
3	8520.000	42.37	6.98	49.35	74.00	-24.65	peak
4	11415.000	33.58	16.29	49.87	74.00	-24.13	peak
5	13980.000	28.84	21.92	50.76	74.00	-23.24	peak
6	17925.000	25.30	25.25	50.55	74.00	-23.45	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

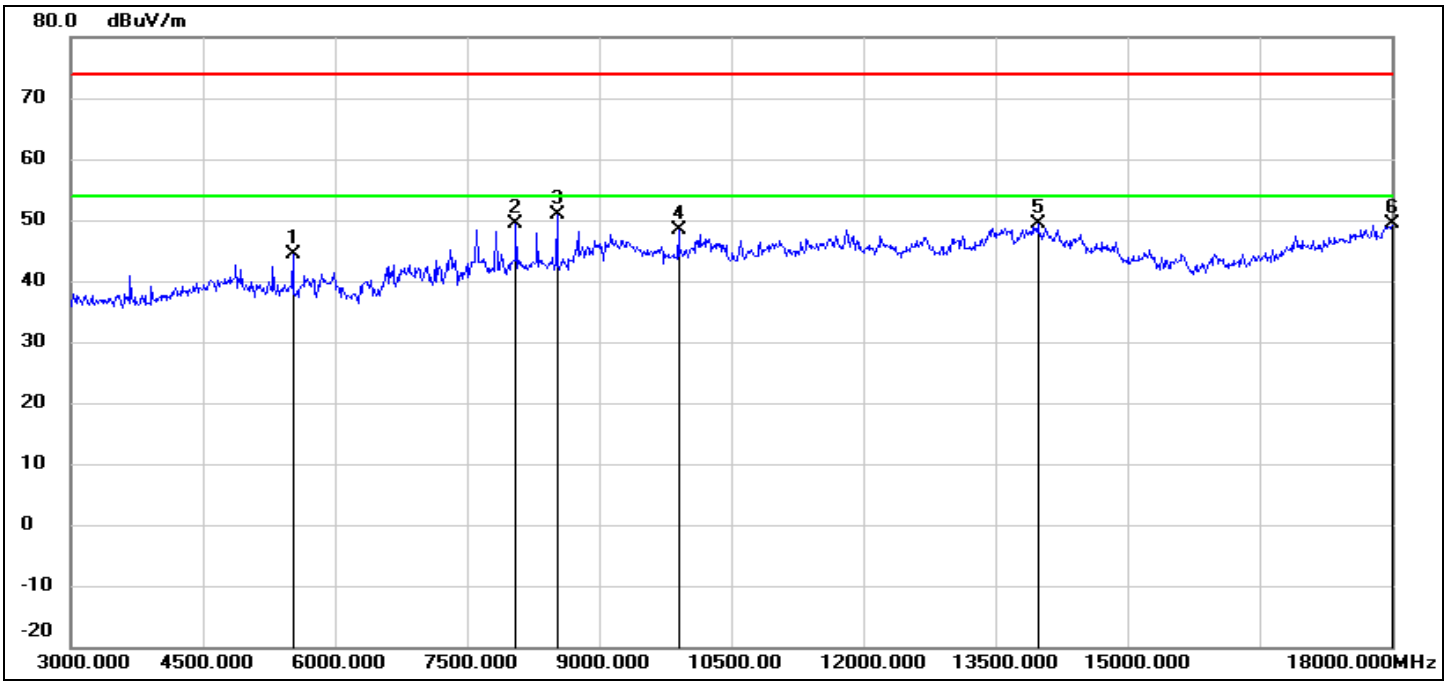
Test Mode:	802.11b	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5985.000	39.84	2.21	42.05	74.00	-31.95	peak
2	7605.000	42.36	6.32	48.68	74.00	-25.32	peak
3	7830.000	43.26	6.32	49.58	74.00	-24.42	peak
4	10140.000	37.90	12.29	50.19	74.00	-23.81	peak
5	13665.000	29.15	21.25	50.40	74.00	-23.60	peak
6	17955.000	24.91	25.42	50.33	74.00	-23.67	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

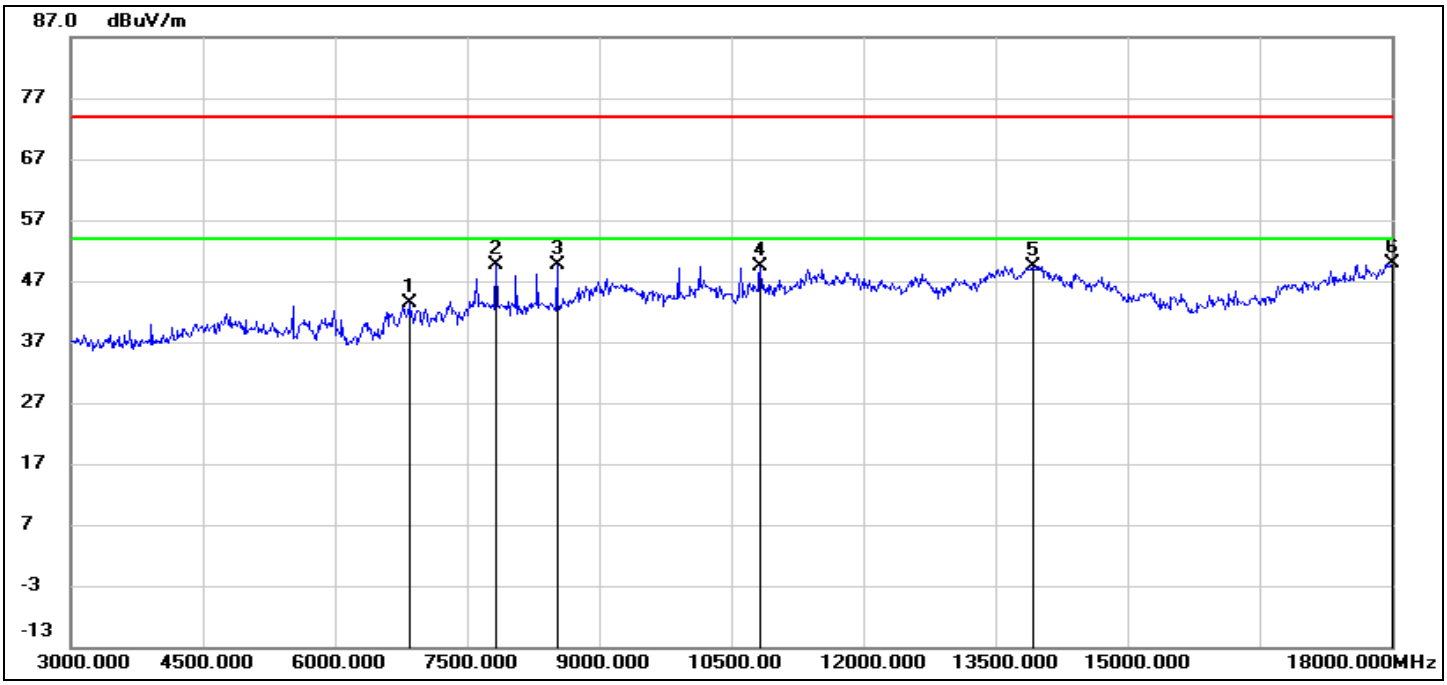
Test Mode:	802.11b	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	43.48	0.90	44.38	74.00	-29.62	peak
2	8055.000	43.00	6.37	49.37	74.00	-24.63	peak
3	8520.000	44.00	6.98	50.98	74.00	-23.02	peak
4	9900.000	36.70	11.75	48.45	74.00	-25.55	peak
5	13980.000	27.47	21.92	49.39	74.00	-24.61	peak
6	18000.000	23.75	25.69	49.44	74.00	-24.56	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

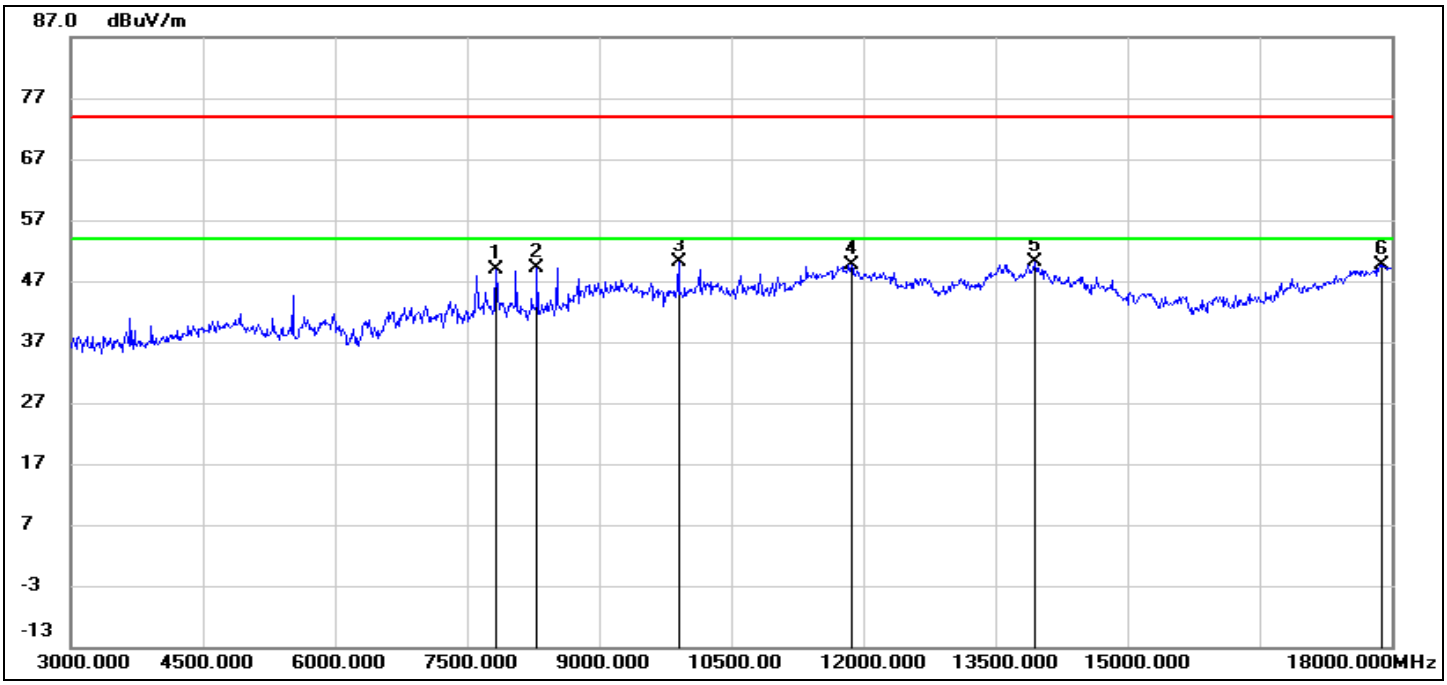
Test Mode:	802.11b	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6840.000	37.56	5.89	43.45	74.00	-30.55	peak
2	7830.000	43.35	6.32	49.67	74.00	-24.33	peak
3	8520.000	42.77	6.98	49.75	74.00	-24.25	peak
4	10830.000	35.28	14.16	49.44	74.00	-24.56	peak
5	13920.000	27.66	21.79	49.45	74.00	-24.55	peak
6	18000.000	24.29	25.69	49.98	74.00	-24.02	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

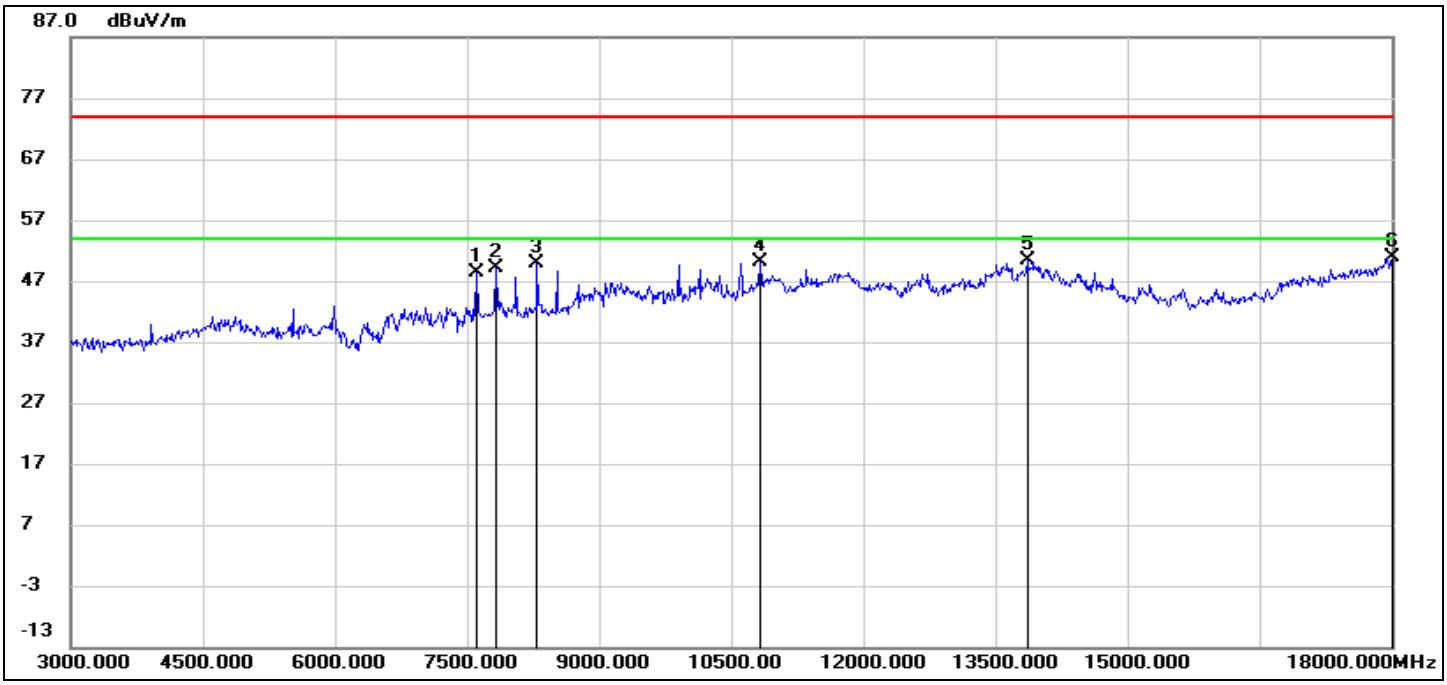
Test Mode:	802.11b	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7830.000	42.44	6.32	48.76	74.00	-25.24	peak
2	8295.000	42.56	6.62	49.18	74.00	-24.82	peak
3	9900.000	38.37	11.75	50.12	74.00	-23.88	peak
4	11865.000	32.11	17.59	49.70	74.00	-24.30	peak
5	13950.000	28.34	21.86	50.20	74.00	-23.80	peak
6	17895.000	24.52	25.07	49.59	74.00	-24.41	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

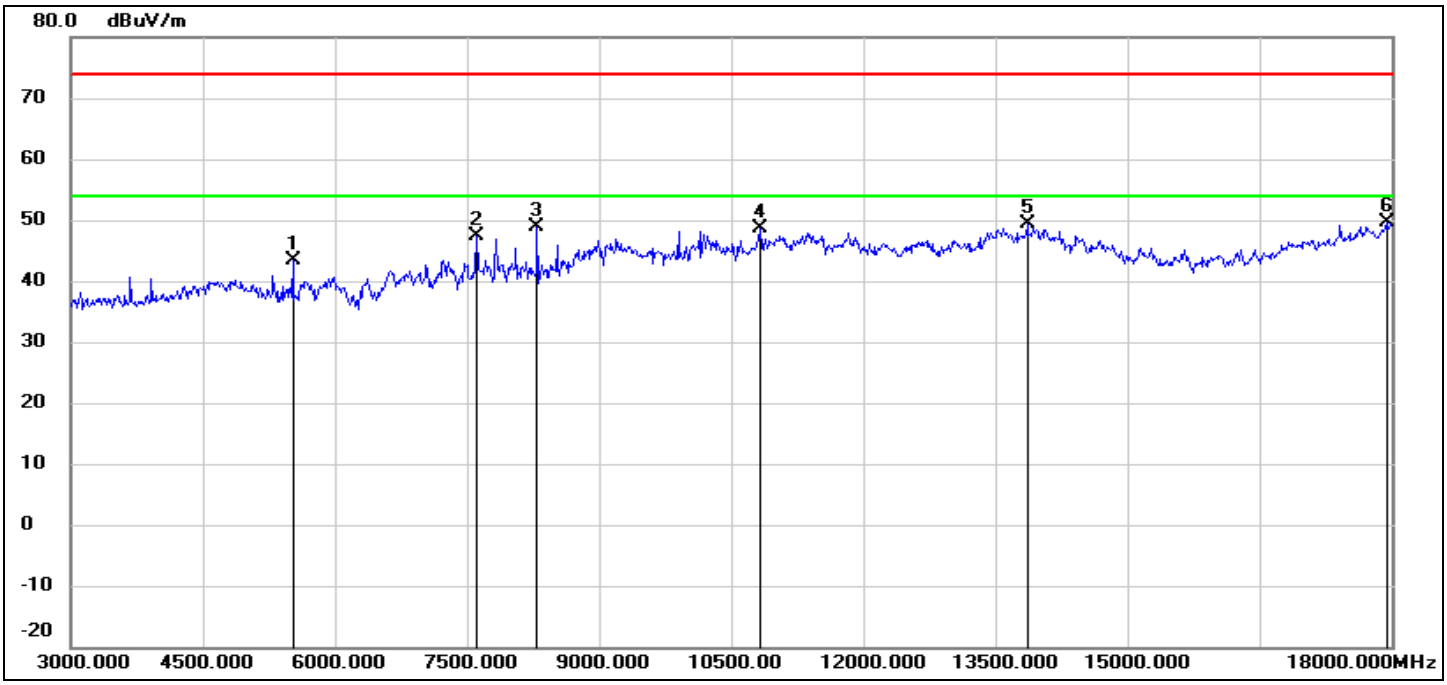
Test Mode:	802.11g	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	42.12	6.32	48.44	74.00	-25.56	peak
2	7830.000	42.80	6.32	49.12	74.00	-24.88	peak
3	8295.000	43.17	6.62	49.79	74.00	-24.21	peak
4	10830.000	36.04	14.16	50.20	74.00	-23.80	peak
5	13860.000	28.70	21.67	50.37	74.00	-23.63	peak
6	18000.000	25.28	25.69	50.97	74.00	-23.03	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

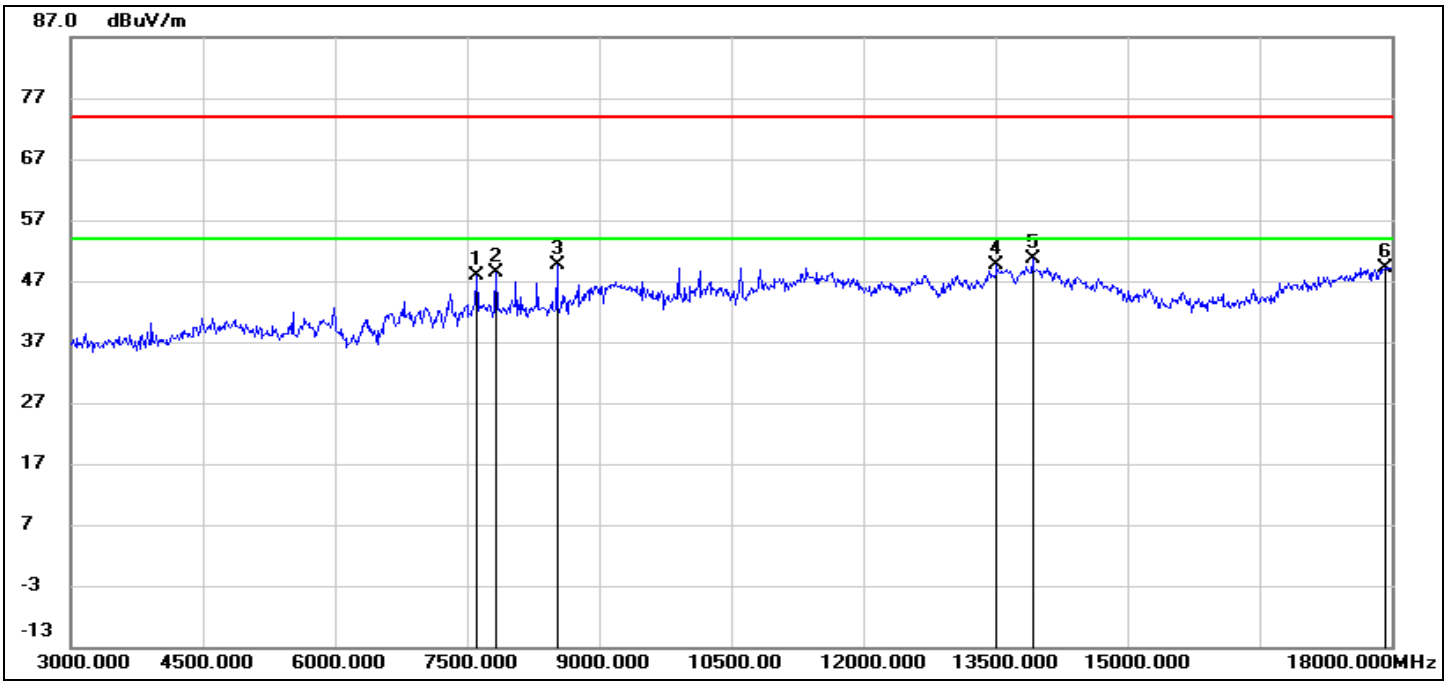
Test Mode:	802.11g	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	42.41	0.90	43.31	74.00	-30.69	peak
2	7605.000	41.10	6.32	47.42	74.00	-26.58	peak
3	8295.000	42.37	6.62	48.99	74.00	-25.01	peak
4	10830.000	34.49	14.16	48.65	74.00	-25.35	peak
5	13860.000	27.81	21.67	49.48	74.00	-24.52	peak
6	17940.000	24.24	25.34	49.58	74.00	-24.42	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

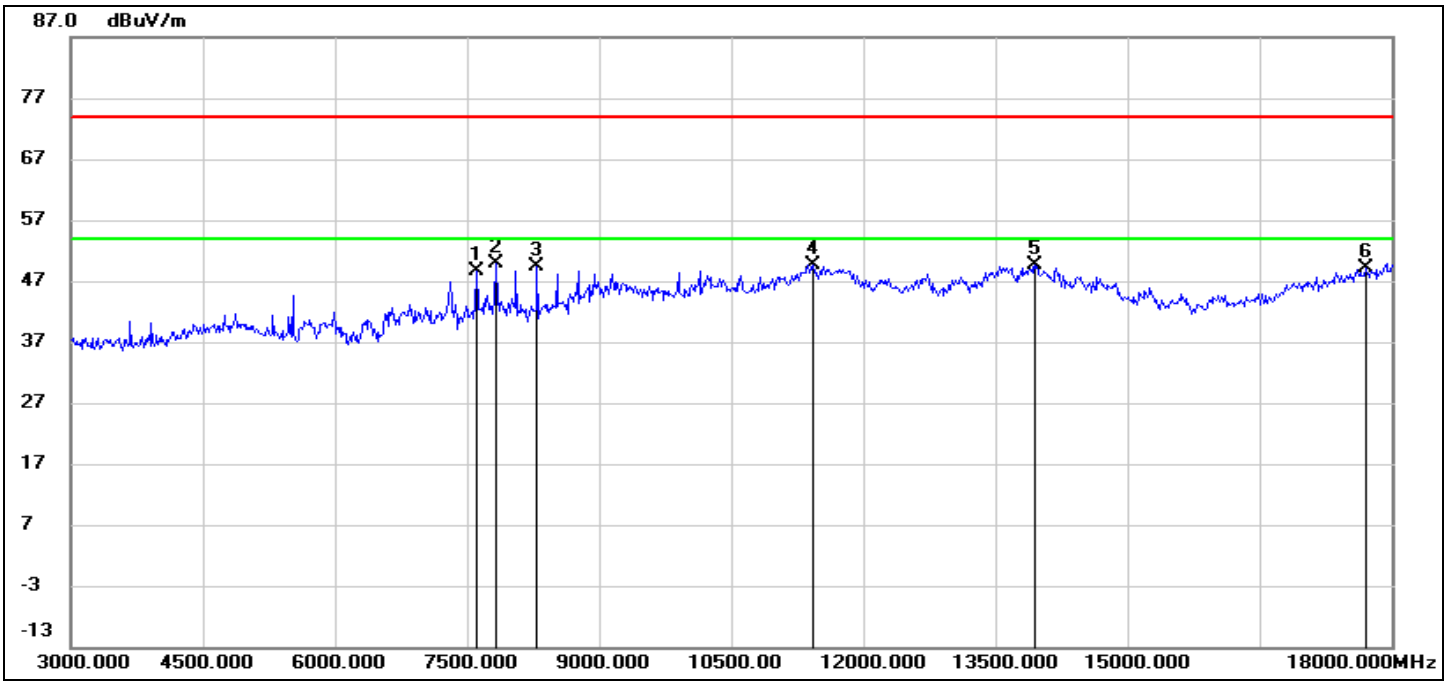
Test Mode:	802.11g	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	41.59	6.32	47.91	74.00	-26.09	peak
2	7830.000	41.99	6.32	48.31	74.00	-25.69	peak
3	8520.000	42.75	6.98	49.73	74.00	-24.27	peak
4	13515.000	28.82	20.93	49.75	74.00	-24.25	peak
5	13920.000	28.88	21.79	50.67	74.00	-23.33	peak
6	17925.000	23.95	25.25	49.20	74.00	-24.80	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

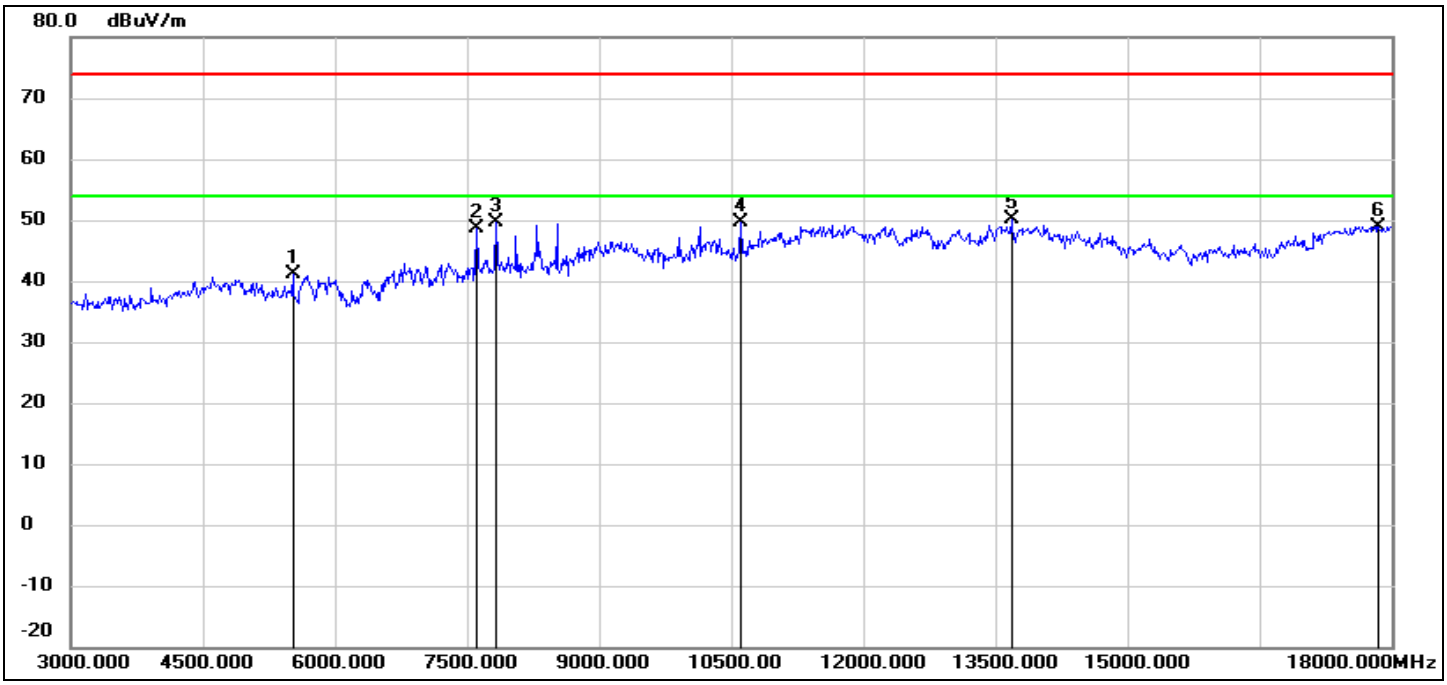
Test Mode:	802.11g	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	42.34	6.32	48.66	74.00	-25.34	peak
2	7830.000	43.44	6.32	49.76	74.00	-24.24	peak
3	8295.000	42.73	6.62	49.35	74.00	-24.65	peak
4	11430.000	33.37	16.34	49.71	74.00	-24.29	peak
5	13950.000	27.69	21.86	49.55	74.00	-24.45	peak
6	17700.000	25.19	23.91	49.10	74.00	-24.90	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

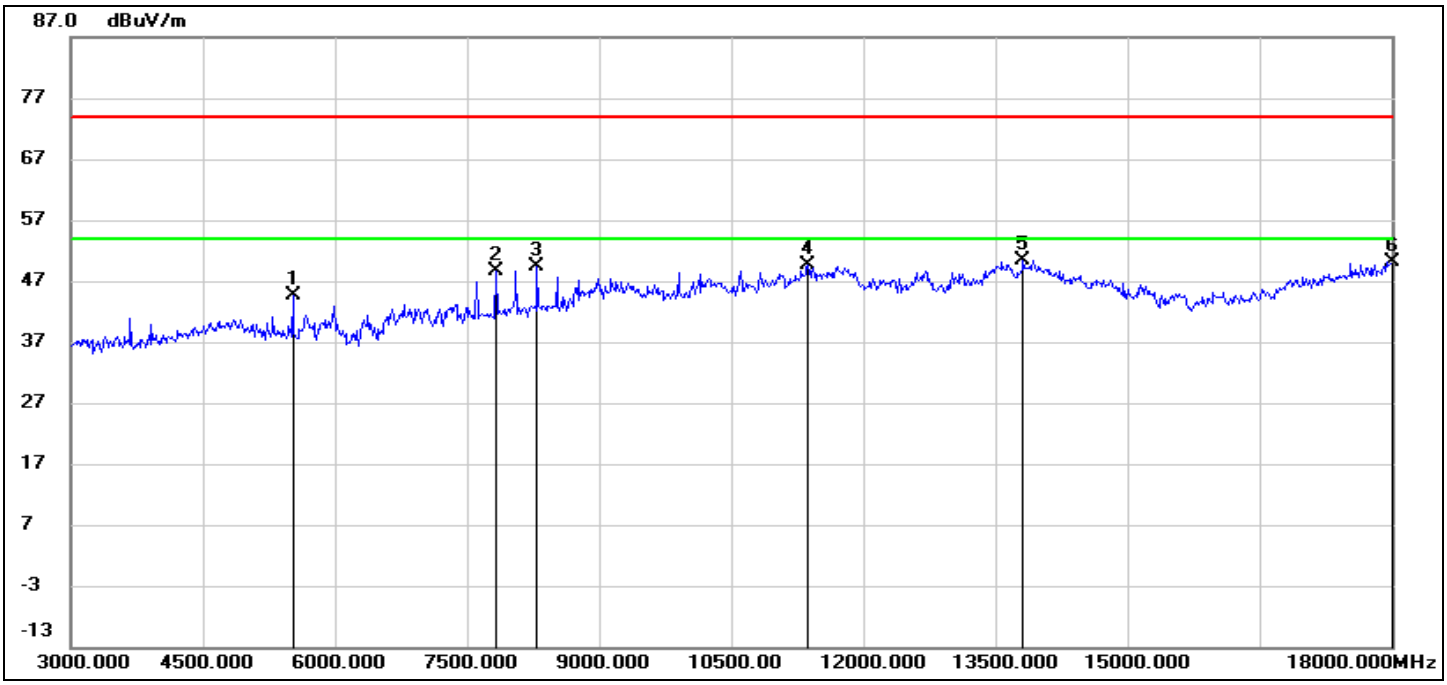
Test Mode:	802.11g	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	40.25	0.90	41.15	74.00	-32.85	peak
2	7605.000	42.21	6.32	48.53	74.00	-25.47	peak
3	7830.000	43.40	6.32	49.72	74.00	-24.28	peak
4	10605.000	36.37	13.37	49.74	74.00	-24.26	peak
5	13680.000	28.76	21.29	50.05	74.00	-23.95	peak
6	17850.000	24.18	24.81	48.99	74.00	-25.01	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

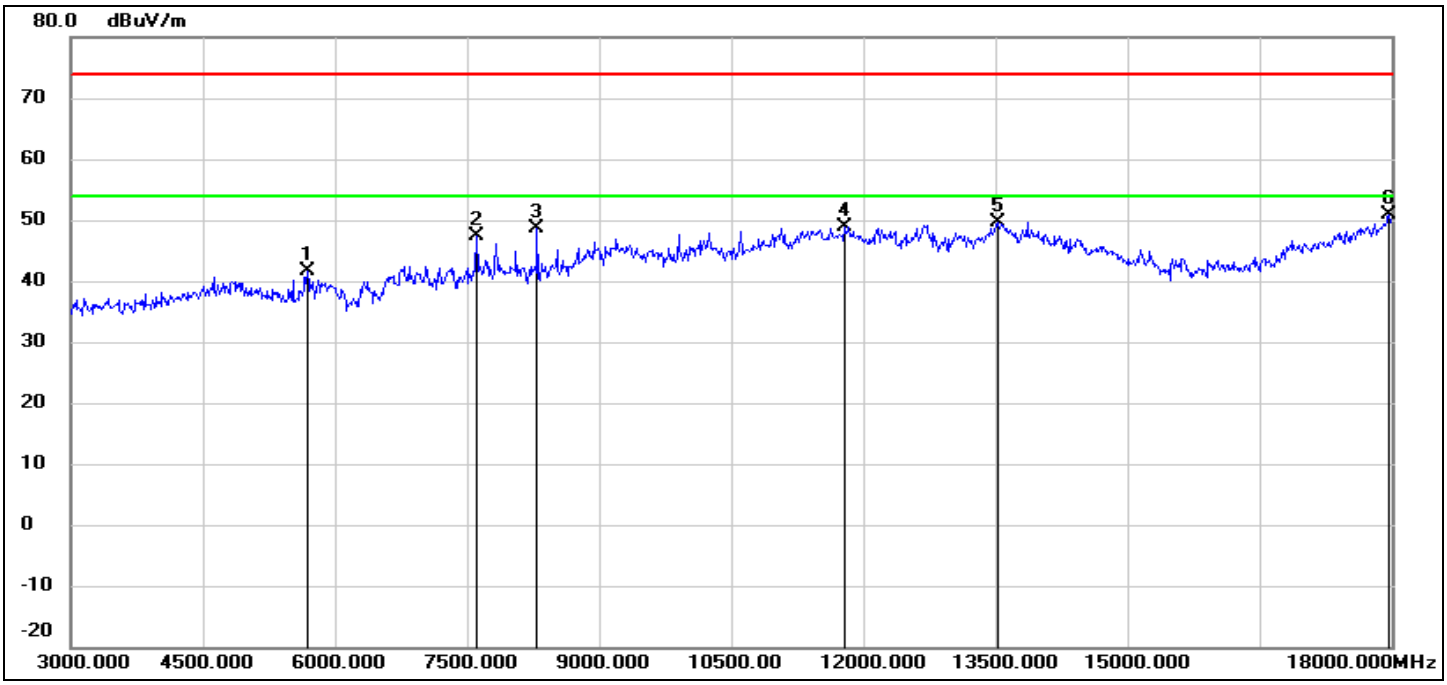
Test Mode:	802.11g	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	43.72	0.90	44.62	74.00	-29.38	peak
2	7830.000	42.43	6.32	48.75	74.00	-25.25	peak
3	8295.000	42.88	6.62	49.50	74.00	-24.50	peak
4	11370.000	33.47	16.12	49.59	74.00	-24.41	peak
5	13815.000	28.73	21.56	50.29	74.00	-23.71	peak
6	18000.000	24.53	25.69	50.22	74.00	-23.78	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

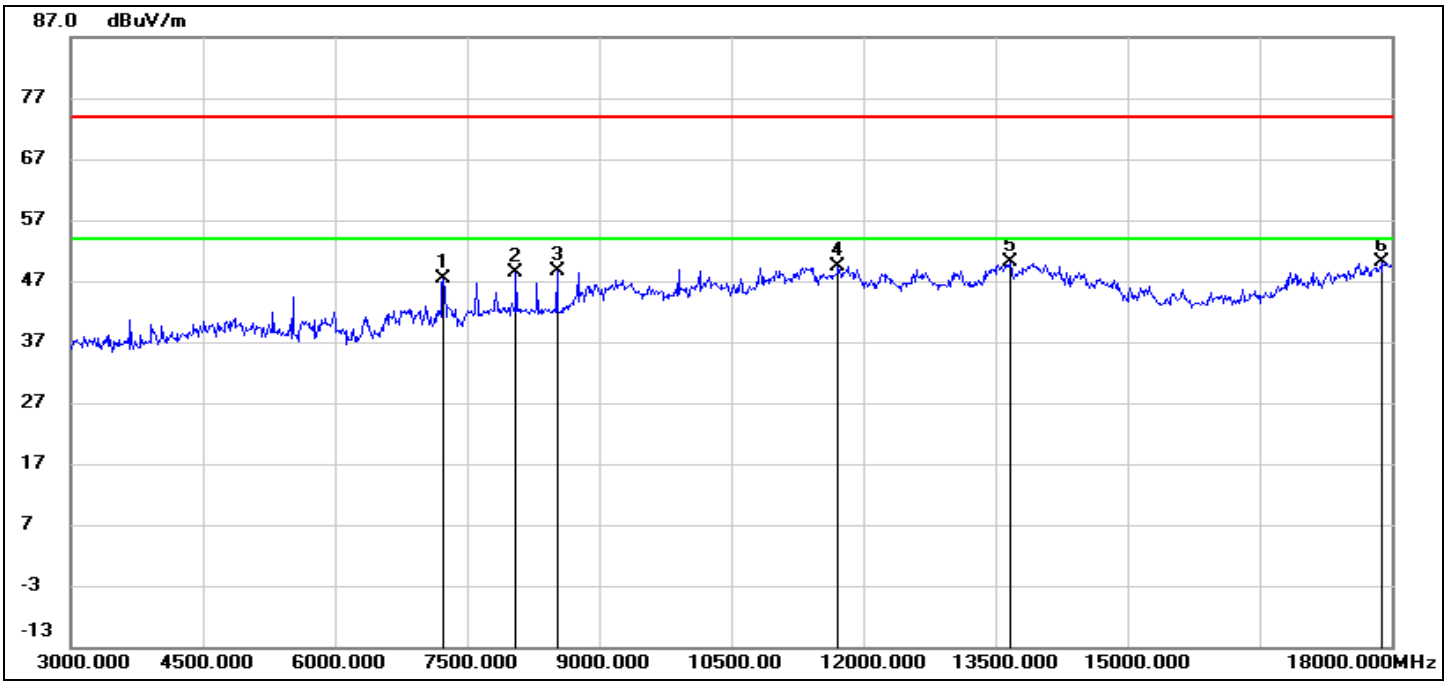
Test Mode:	802.11n HT20	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5685.000	40.20	1.37	41.57	74.00	-32.43	peak
2	7605.000	41.12	6.32	47.44	74.00	-26.56	peak
3	8295.000	41.99	6.62	48.61	74.00	-25.39	peak
4	11790.000	31.51	17.38	48.89	74.00	-25.11	peak
5	13530.000	28.60	20.96	49.56	74.00	-24.44	peak
6	17970.000	25.34	25.51	50.85	74.00	-23.15	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

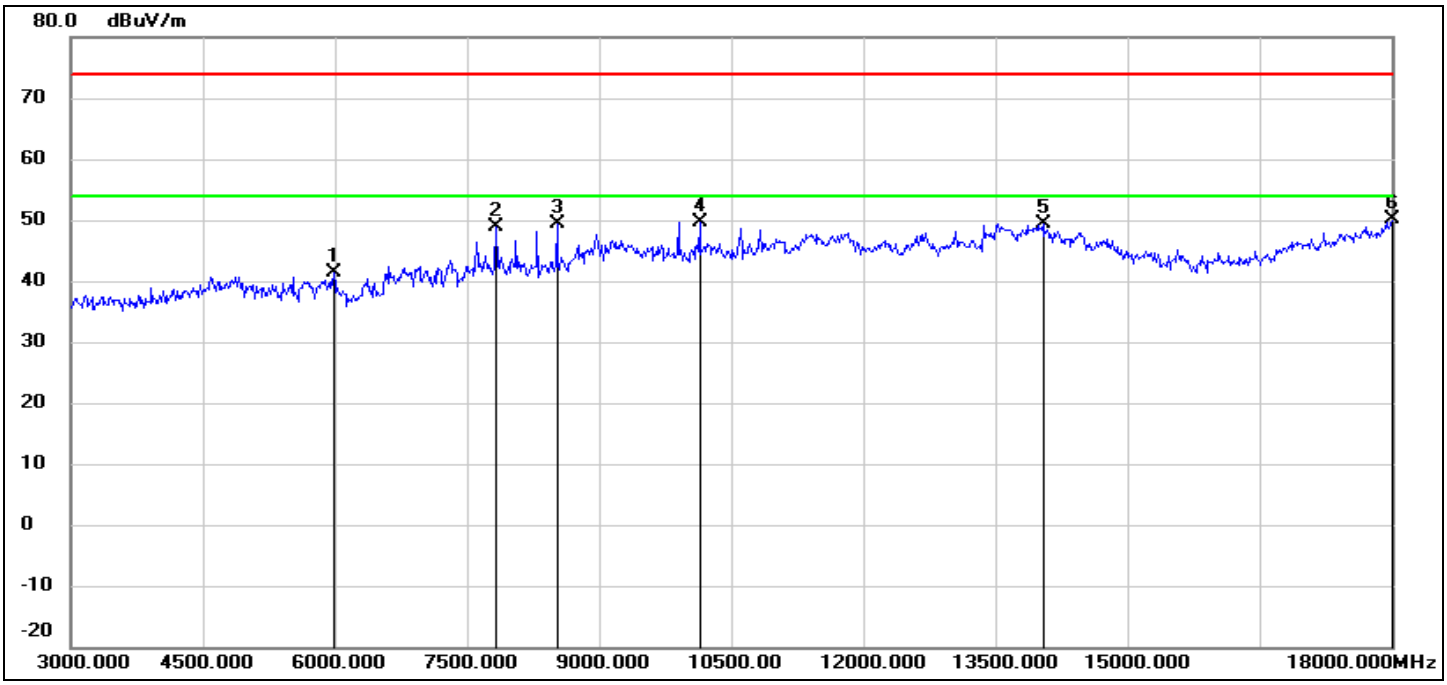
Test Mode:	802.11n HT20	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7230.000	40.87	6.53	47.40	74.00	-26.60	peak
2	8055.000	41.96	6.37	48.33	74.00	-25.67	peak
3	8520.000	41.53	6.98	48.51	74.00	-25.49	peak
4	11715.000	32.20	17.19	49.39	74.00	-24.61	peak
5	13665.000	28.93	21.25	50.18	74.00	-23.82	peak
6	17895.000	25.05	25.07	50.12	74.00	-23.88	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

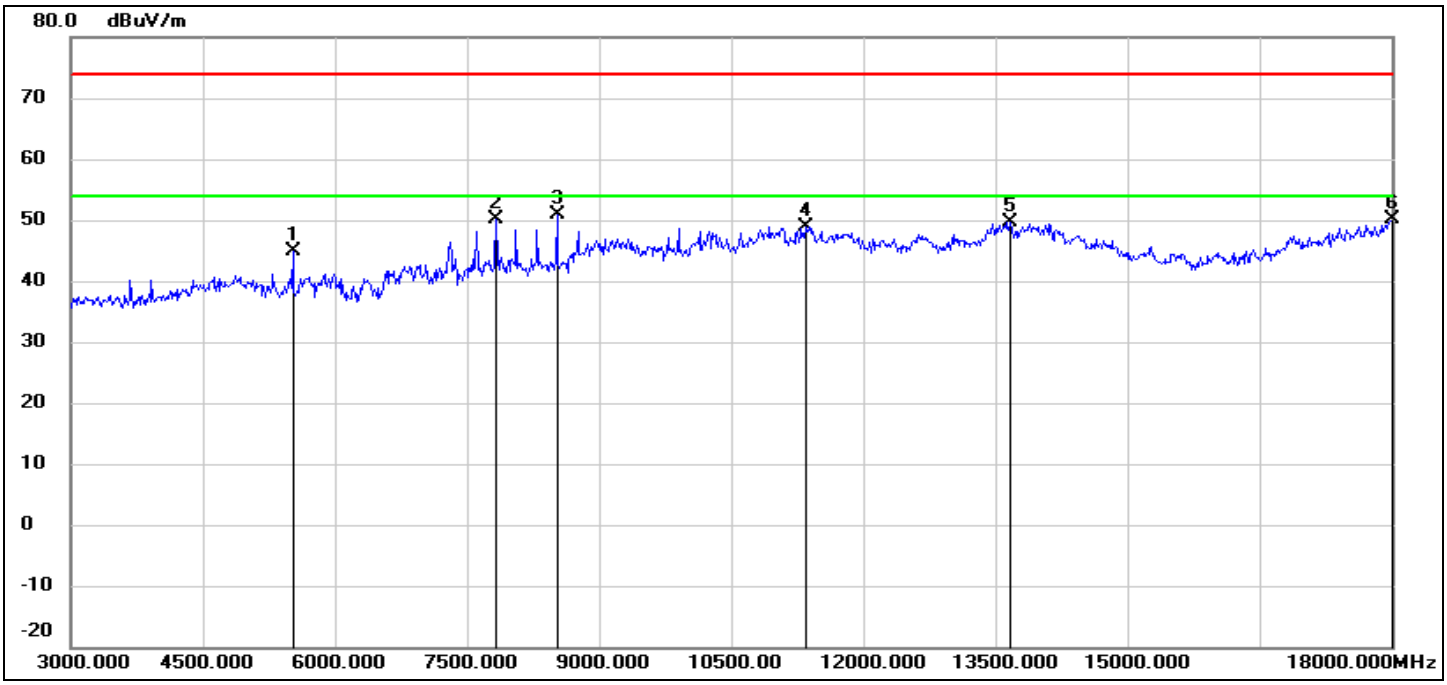
Test Mode:	802.11n HT20	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5985.000	39.29	2.21	41.50	74.00	-32.50	peak
2	7830.000	42.63	6.32	48.95	74.00	-25.05	peak
3	8520.000	42.40	6.98	49.38	74.00	-24.62	peak
4	10140.000	37.27	12.29	49.56	74.00	-24.44	peak
5	14040.000	27.50	21.79	49.29	74.00	-24.71	peak
6	18000.000	24.52	25.69	50.21	74.00	-23.79	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

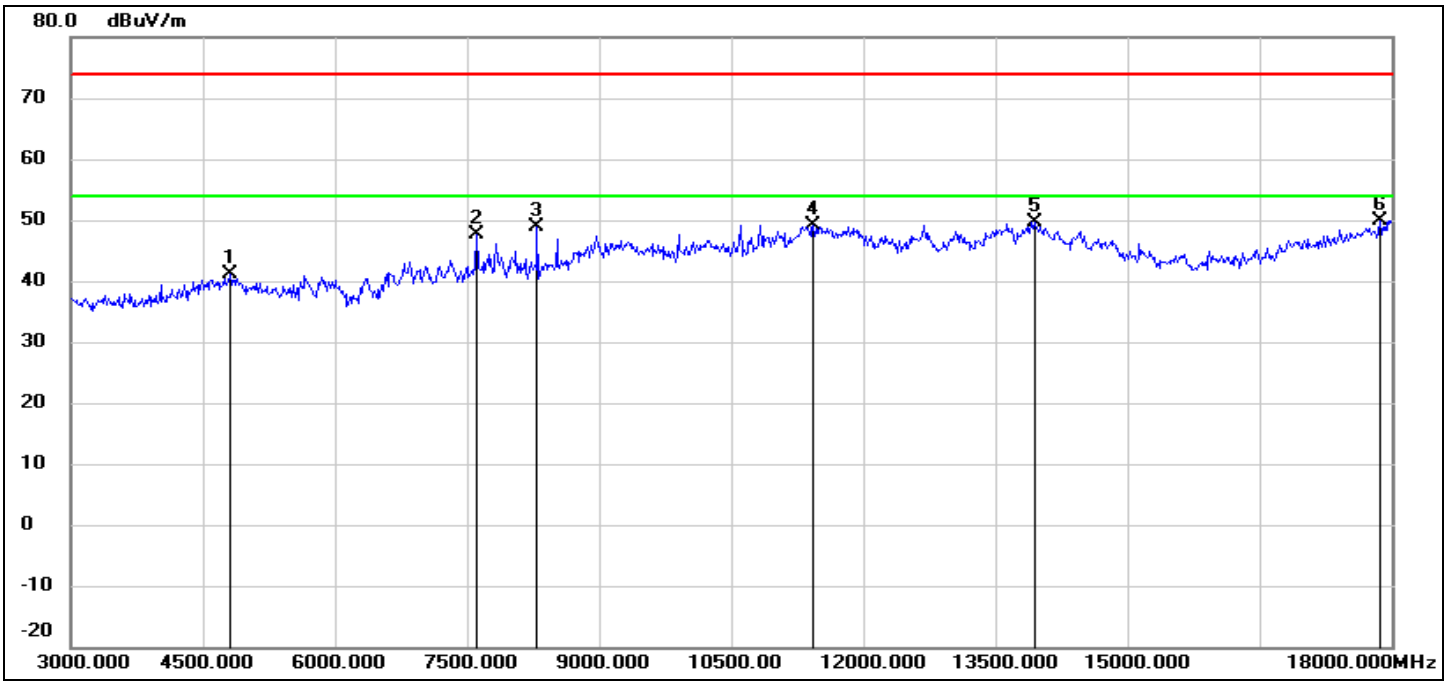
Test Mode:	802.11n HT20	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	43.99	0.90	44.89	74.00	-29.11	peak
2	7830.000	43.86	6.32	50.18	74.00	-23.82	peak
3	8520.000	43.82	6.98	50.80	74.00	-23.20	peak
4	11340.000	32.96	16.01	48.97	74.00	-25.03	peak
5	13665.000	28.34	21.25	49.59	74.00	-24.41	peak
6	18000.000	24.51	25.69	50.20	74.00	-23.80	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

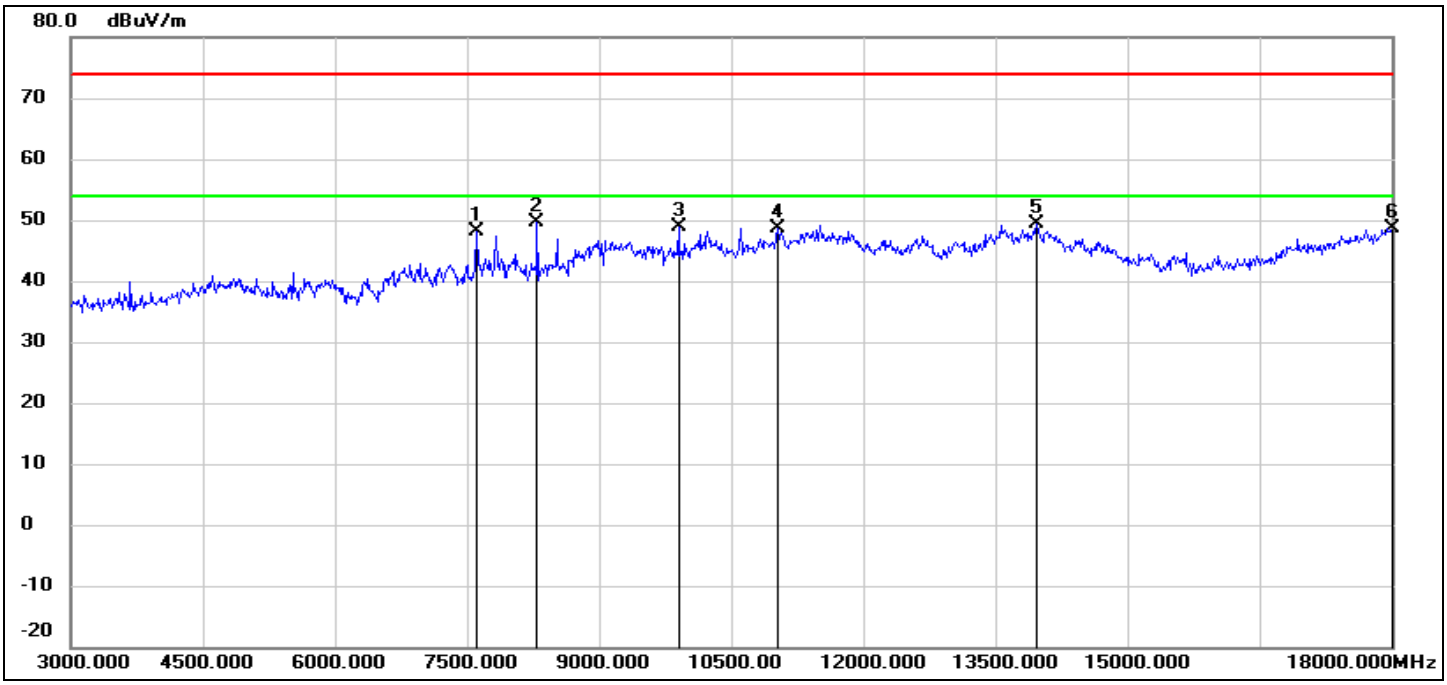
Test Mode:	802.11n HT20	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.30	-0.26	41.04	74.00	-32.96	peak
2	7605.000	41.35	6.32	47.67	74.00	-26.33	peak
3	8295.000	42.27	6.62	48.89	74.00	-25.11	peak
4	11430.000	32.90	16.34	49.24	74.00	-24.76	peak
5	13950.000	27.83	21.86	49.69	74.00	-24.31	peak
6	17865.000	25.07	24.89	49.96	74.00	-24.04	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

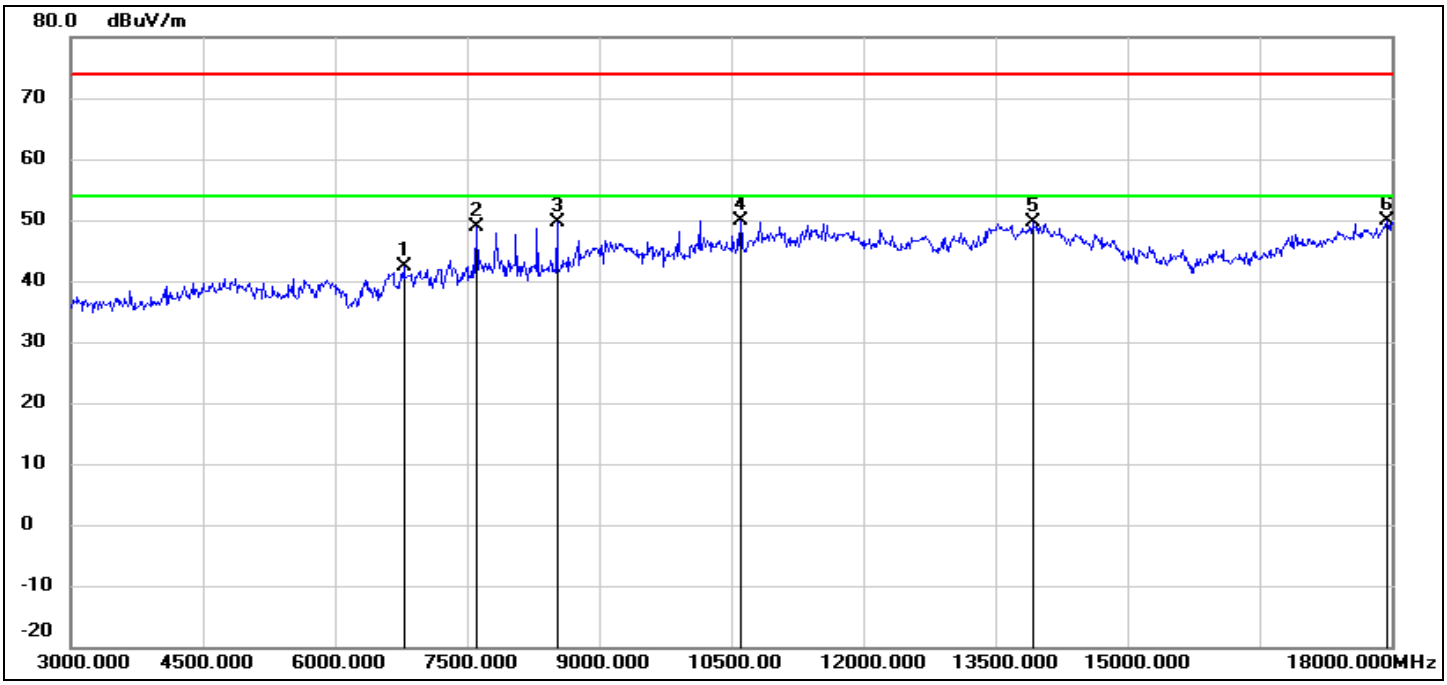
Test Mode:	802.11n HT20	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	41.87	6.32	48.19	74.00	-25.81	peak
2	8295.000	42.98	6.62	49.60	74.00	-24.40	peak
3	9900.000	37.09	11.75	48.84	74.00	-25.16	peak
4	11025.000	33.75	14.85	48.60	74.00	-25.40	peak
5	13965.000	27.59	21.89	49.48	74.00	-24.52	peak
6	18000.000	22.92	25.69	48.61	74.00	-25.39	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

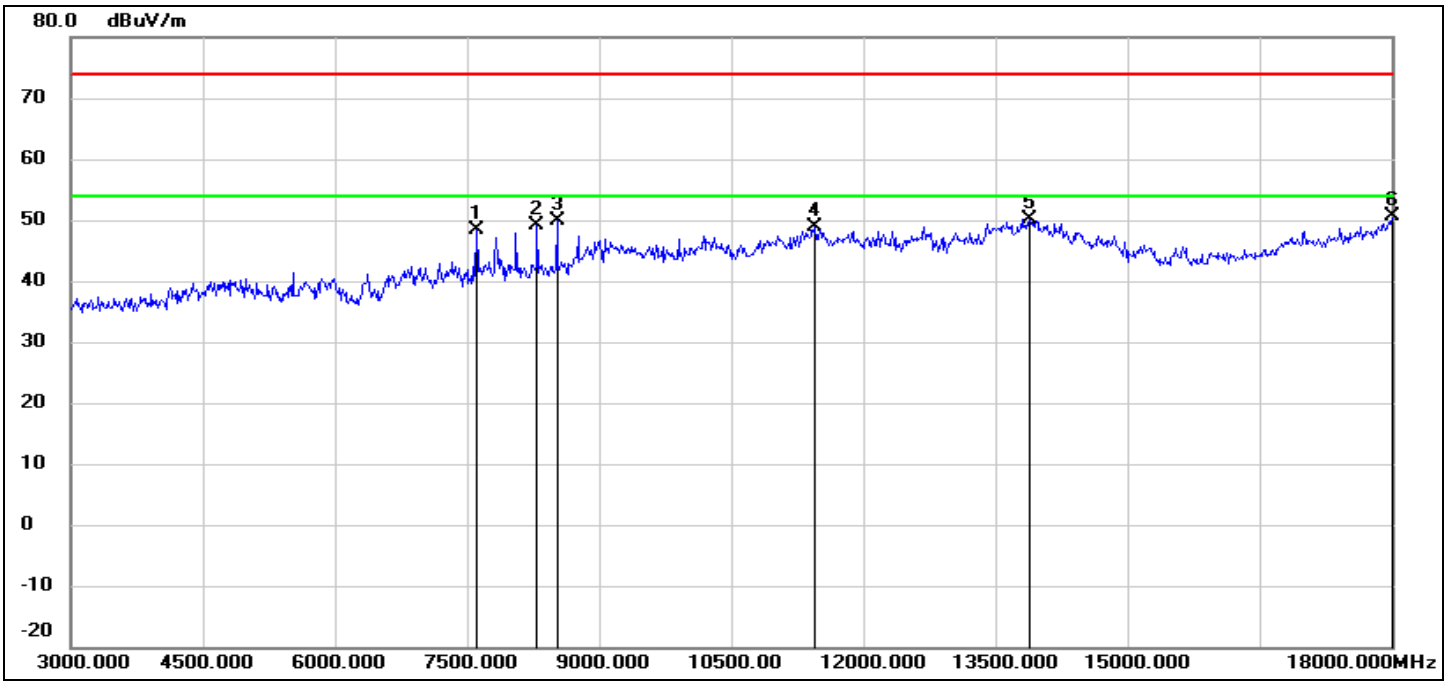
Test Mode:	802.11n HT40	Channel:	2422
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6780.000	36.66	5.60	42.26	74.00	-31.74	peak
2	7605.000	42.59	6.32	48.91	74.00	-25.09	peak
3	8520.000	42.56	6.98	49.54	74.00	-24.46	peak
4	10605.000	36.60	13.37	49.97	74.00	-24.03	peak
5	13920.000	27.92	21.79	49.71	74.00	-24.29	peak
6	17955.000	24.56	25.42	49.98	74.00	-24.02	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

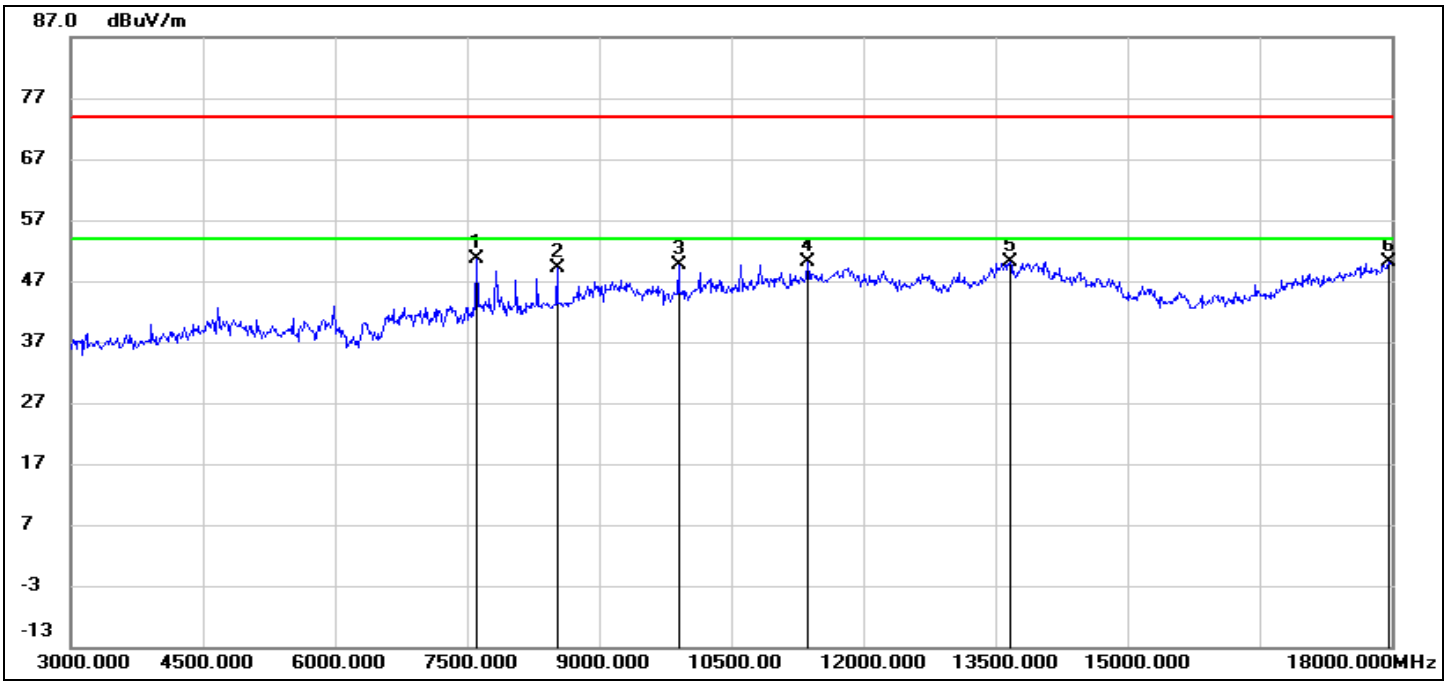
Test Mode:	802.11n HT40	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	42.14	6.32	48.46	74.00	-25.54	peak
2	8295.000	42.44	6.62	49.06	74.00	-24.94	peak
3	8520.000	42.79	6.98	49.77	74.00	-24.23	peak
4	11445.000	32.45	16.41	48.86	74.00	-25.14	peak
5	13890.000	28.45	21.72	50.17	74.00	-23.83	peak
6	18000.000	24.83	25.69	50.52	74.00	-23.48	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

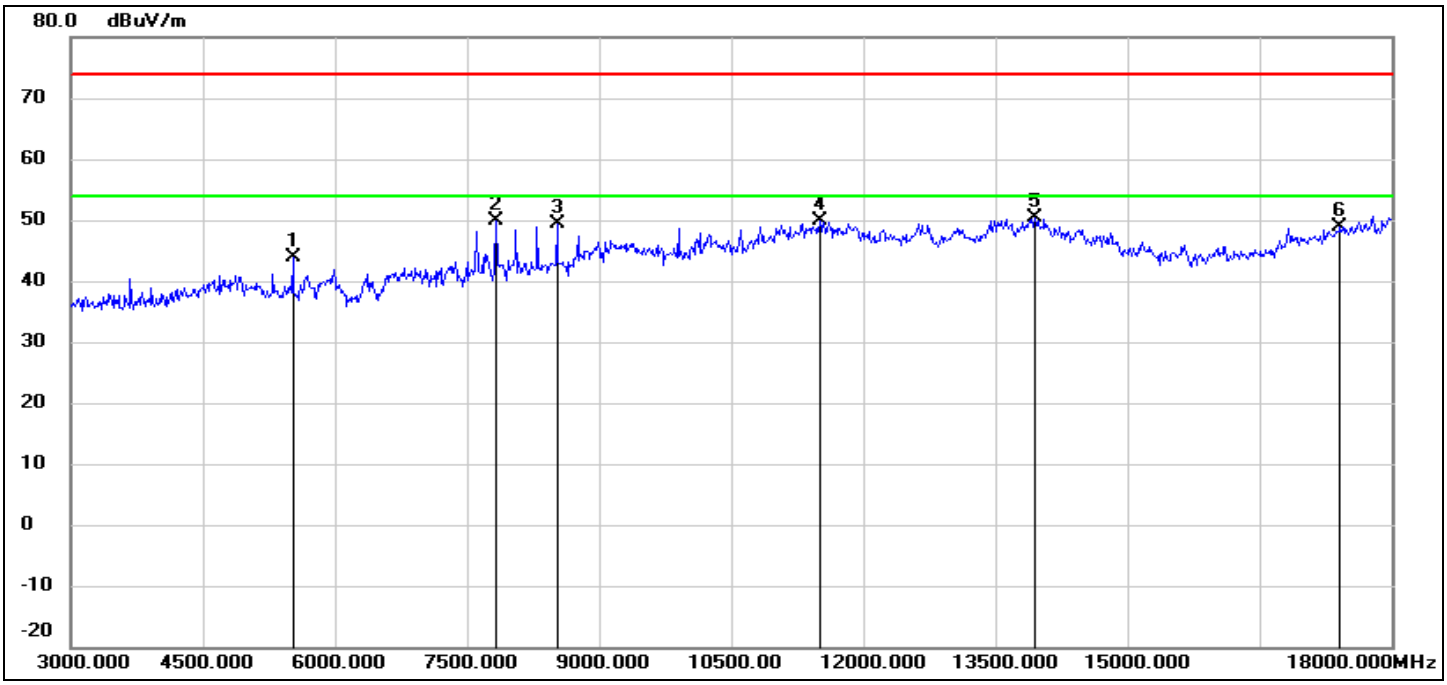
Test Mode:	802.11n HT40	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	44.38	6.32	50.70	74.00	-23.30	peak
2	8520.000	42.03	6.98	49.01	74.00	-24.99	peak
3	9900.000	37.86	11.75	49.61	74.00	-24.39	peak
4	11370.000	33.90	16.12	50.02	74.00	-23.98	peak
5	13665.000	28.99	21.25	50.24	74.00	-23.76	peak
6	17970.000	24.68	25.51	50.19	74.00	-23.81	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

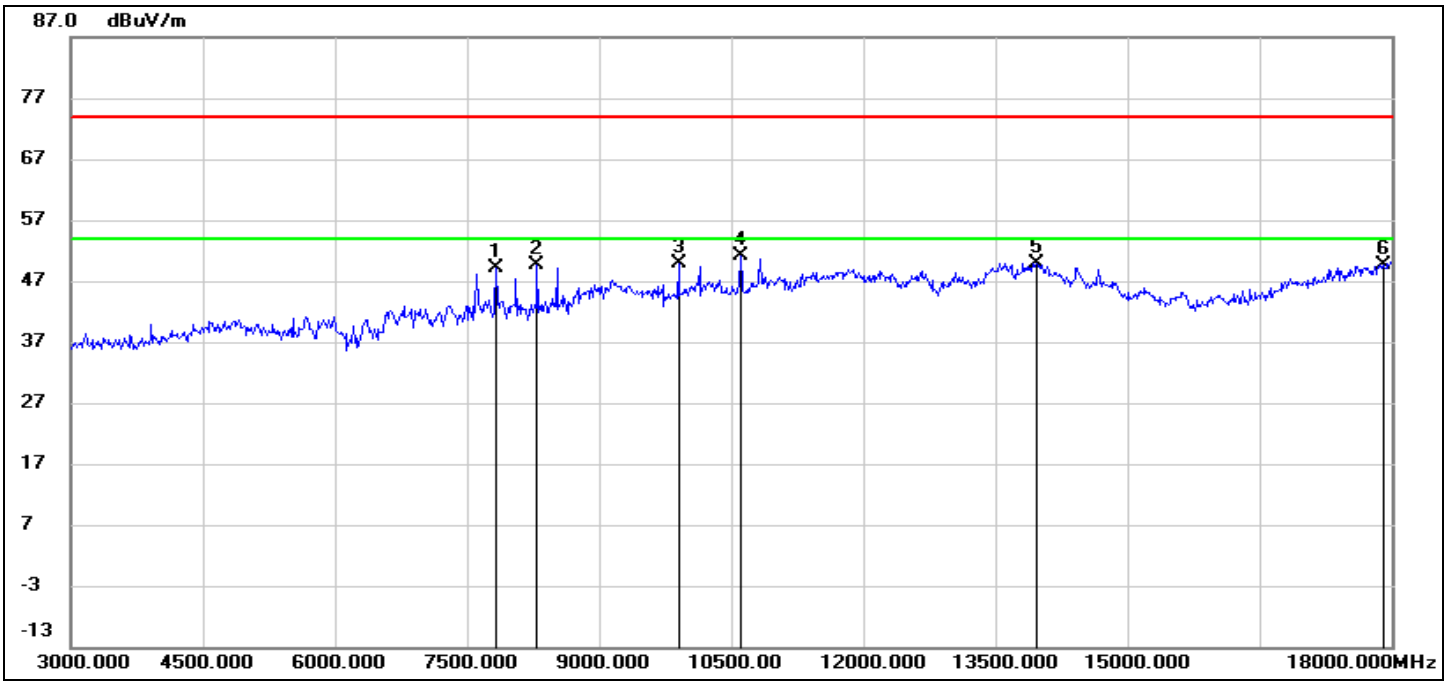
Test Mode:	802.11n HT40	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	42.89	0.90	43.79	74.00	-30.21	peak
2	7830.000	43.52	6.32	49.84	74.00	-24.16	peak
3	8520.000	42.40	6.98	49.38	74.00	-24.62	peak
4	11505.000	33.19	16.61	49.80	74.00	-24.20	peak
5	13950.000	28.46	21.86	50.32	74.00	-23.68	peak
6	17415.000	26.48	22.42	48.90	74.00	-25.10	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

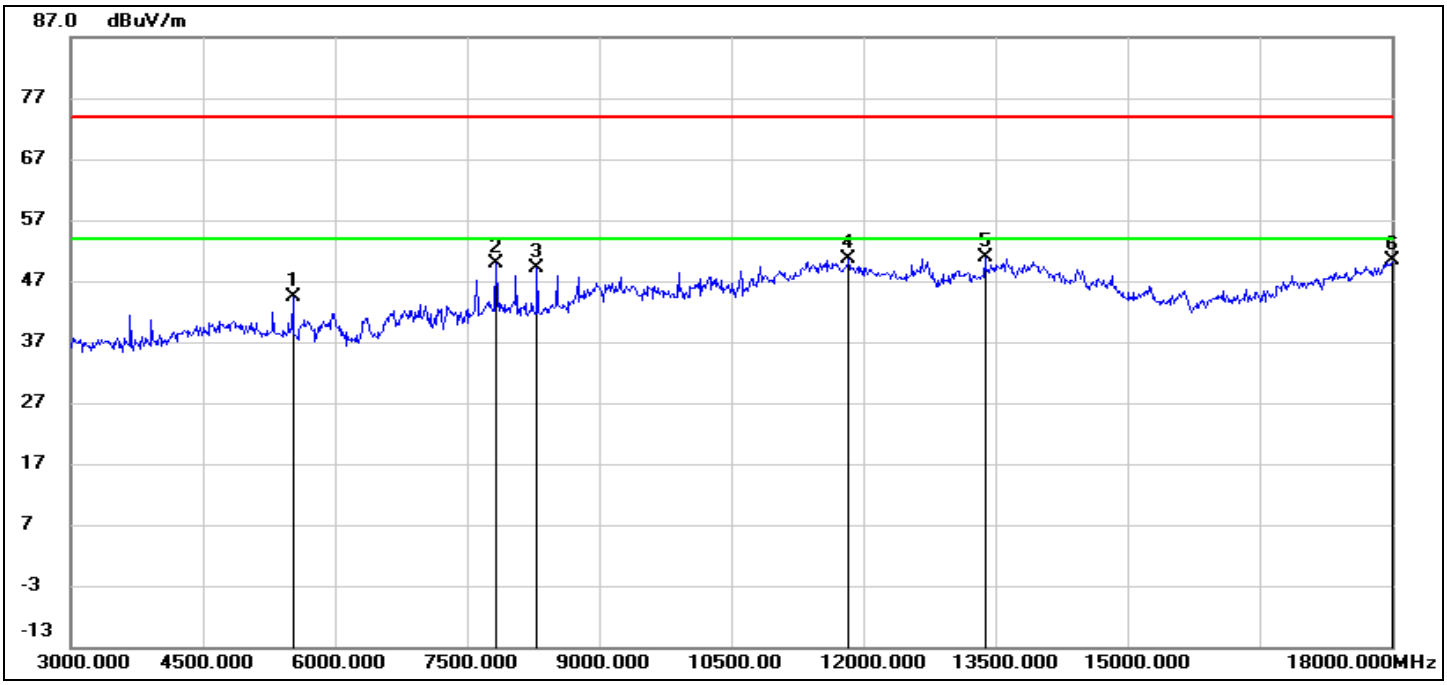
Test Mode:	802.11n HT40	Channel:	2452
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7830.000	42.74	6.32	49.06	74.00	-24.94	peak
2	8295.000	43.10	6.62	49.72	74.00	-24.28	peak
3	9900.000	38.02	11.75	49.77	74.00	-24.23	peak
4	10605.000	37.65	13.37	51.02	74.00	-22.98	peak
5	13965.000	28.04	21.89	49.93	74.00	-24.07	peak
6	17910.000	24.40	25.16	49.56	74.00	-24.44	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

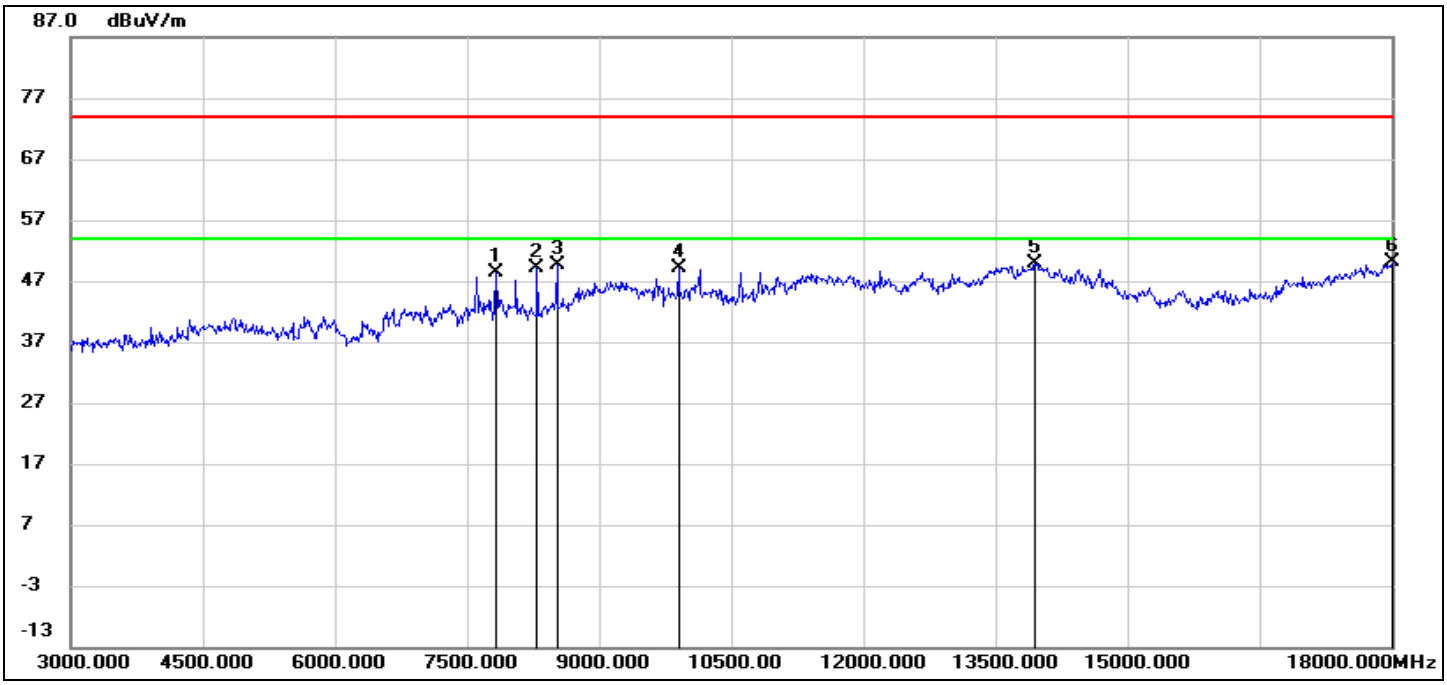
Test Mode:	802.11n HT40	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	43.42	0.90	44.32	74.00	-29.68	peak
2	7830.000	43.46	6.32	49.78	74.00	-24.22	peak
3	8295.000	42.42	6.62	49.04	74.00	-24.96	peak
4	11835.000	33.24	17.51	50.75	74.00	-23.25	peak
5	13380.000	30.44	20.38	50.82	74.00	-23.18	peak
6	18000.000	24.77	25.69	50.46	74.00	-23.54	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

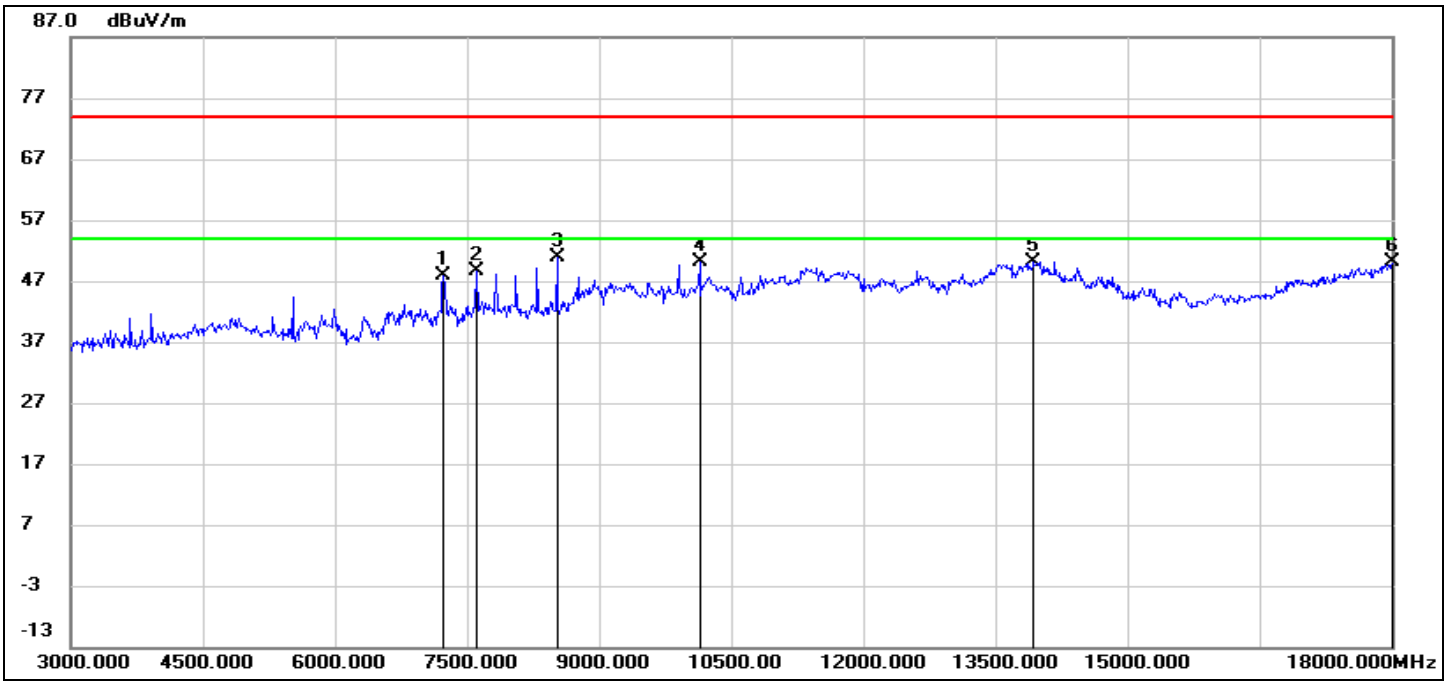
Test Mode:	802.11ax HE20	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7830.000	42.13	6.32	48.45	74.00	-25.55	peak
2	8295.000	42.41	6.62	49.03	74.00	-24.97	peak
3	8520.000	42.69	6.98	49.67	74.00	-24.33	peak
4	9900.000	37.50	11.75	49.25	74.00	-24.75	peak
5	13950.000	28.10	21.86	49.96	74.00	-24.04	peak
6	18000.000	24.34	25.69	50.03	74.00	-23.97	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

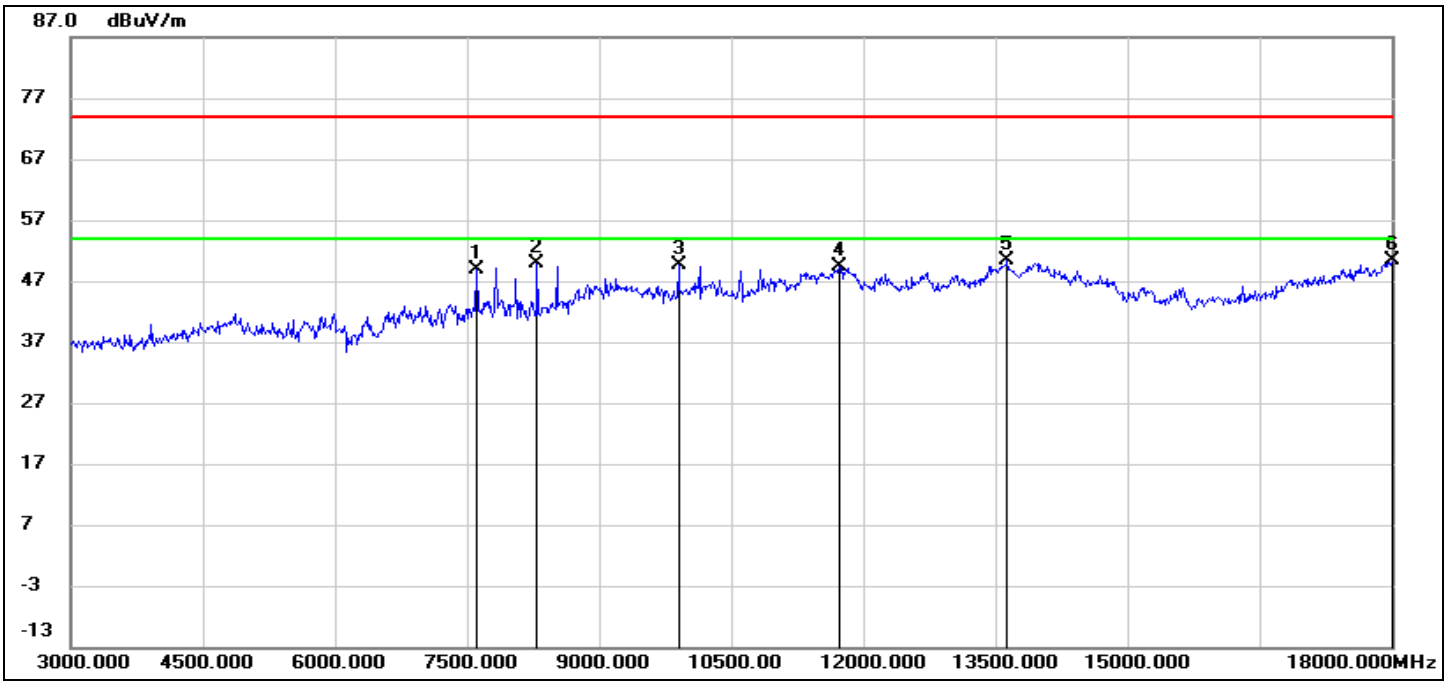
Test Mode:	802.11ax HE20	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7230.000	41.41	6.53	47.94	74.00	-26.06	peak
2	7605.000	42.31	6.32	48.63	74.00	-25.37	peak
3	8520.000	43.96	6.98	50.94	74.00	-23.06	peak
4	10140.000	37.83	12.29	50.12	74.00	-23.88	peak
5	13935.000	28.40	21.82	50.22	74.00	-23.78	peak
6	18000.000	24.42	25.69	50.11	74.00	-23.89	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

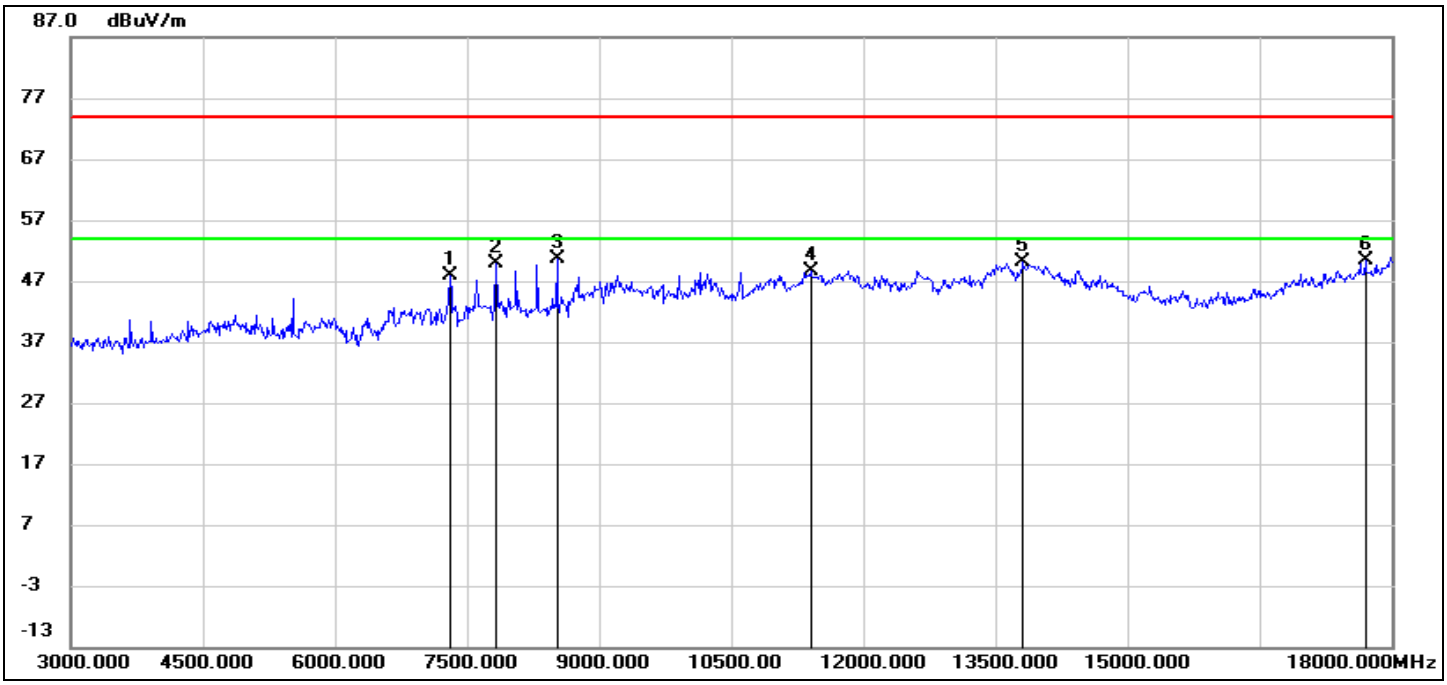
Test Mode:	802.11ax HE20	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7605.000	42.61	6.32	48.93	74.00	-25.07	peak
2	8295.000	43.36	6.62	49.98	74.00	-24.02	peak
3	9900.000	37.96	11.75	49.71	74.00	-24.29	peak
4	11730.000	32.21	17.22	49.43	74.00	-24.57	peak
5	13635.000	29.21	21.19	50.40	74.00	-23.60	peak
6	18000.000	24.58	25.69	50.27	74.00	-23.73	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

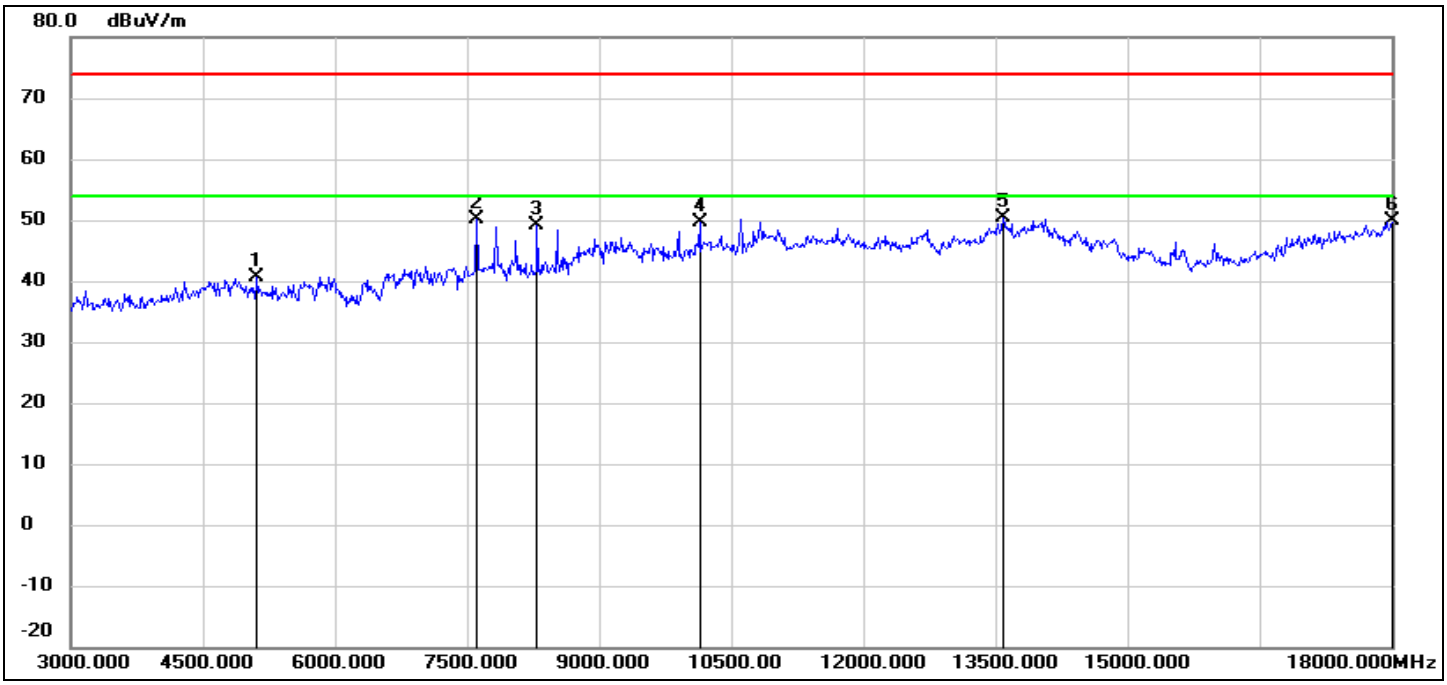
Test Mode:	802.11ax HE20	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7305.000	41.30	6.47	47.77	74.00	-26.23	peak
2	7830.000	43.48	6.32	49.80	74.00	-24.20	peak
3	8520.000	43.67	6.98	50.65	74.00	-23.35	peak
4	11400.000	32.44	16.23	48.67	74.00	-25.33	peak
5	13815.000	28.45	21.56	50.01	74.00	-23.99	peak
6	17700.000	26.44	23.91	50.35	74.00	-23.65	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

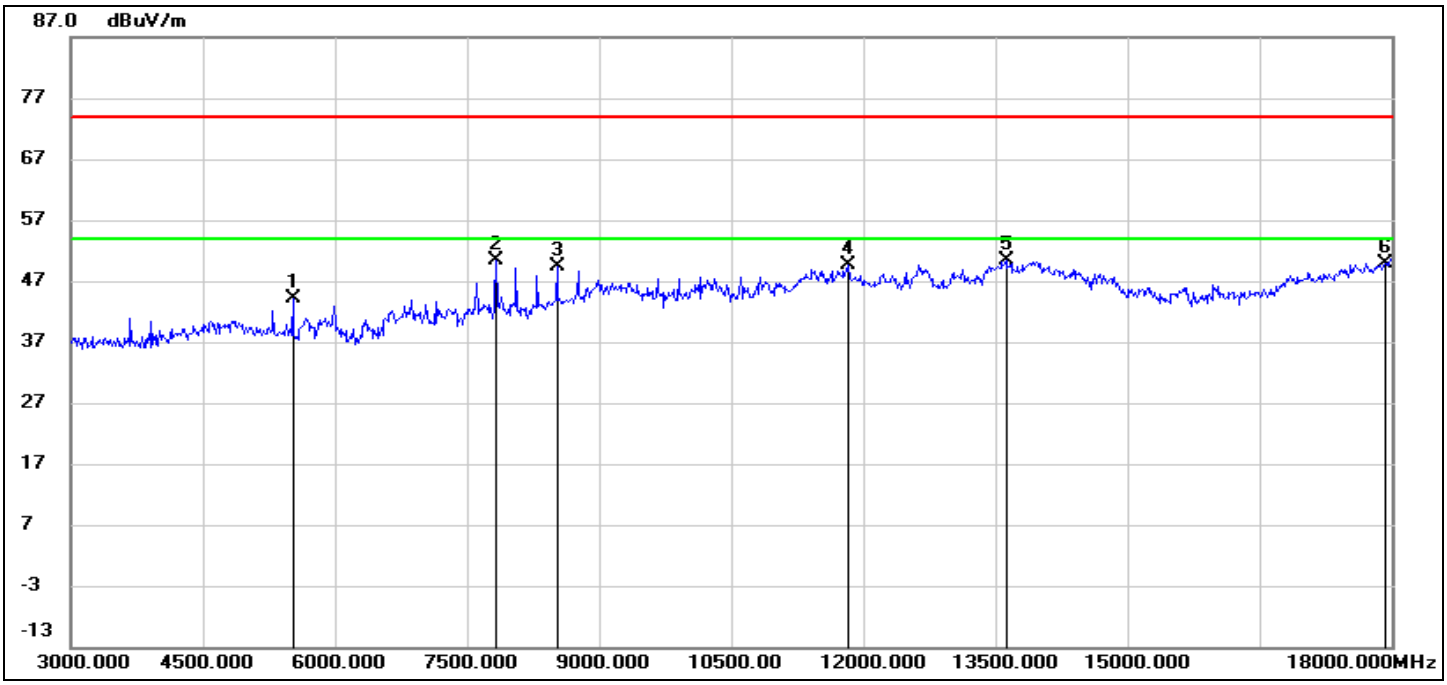
Test Mode:	802.11ax HE20	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5115.000	40.05	0.54	40.59	74.00	-33.41	peak
2	7605.000	43.90	6.32	50.22	74.00	-23.78	peak
3	8295.000	42.50	6.62	49.12	74.00	-24.88	peak
4	10140.000	37.36	12.29	49.65	74.00	-24.35	peak
5	13590.000	29.21	21.09	50.30	74.00	-23.70	peak
6	18000.000	24.14	25.69	49.83	74.00	-24.17	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

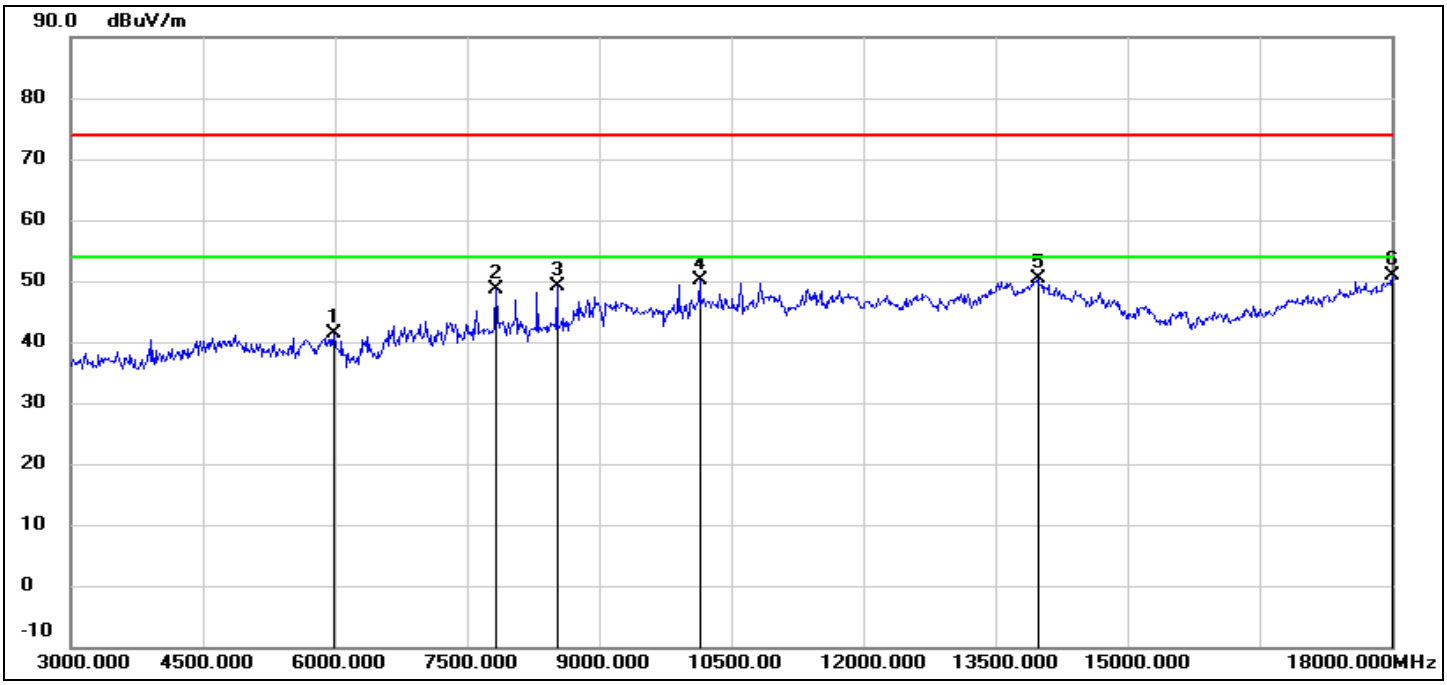
Test Mode:	802.11ax HE20	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	43.33	0.90	44.23	74.00	-29.77	peak
2	7830.000	44.10	6.32	50.42	74.00	-23.58	peak
3	8520.000	42.43	6.98	49.41	74.00	-24.59	peak
4	11835.000	32.24	17.51	49.75	74.00	-24.25	peak
5	13620.000	29.27	21.15	50.42	74.00	-23.58	peak
6	17925.000	24.57	25.25	49.82	74.00	-24.18	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

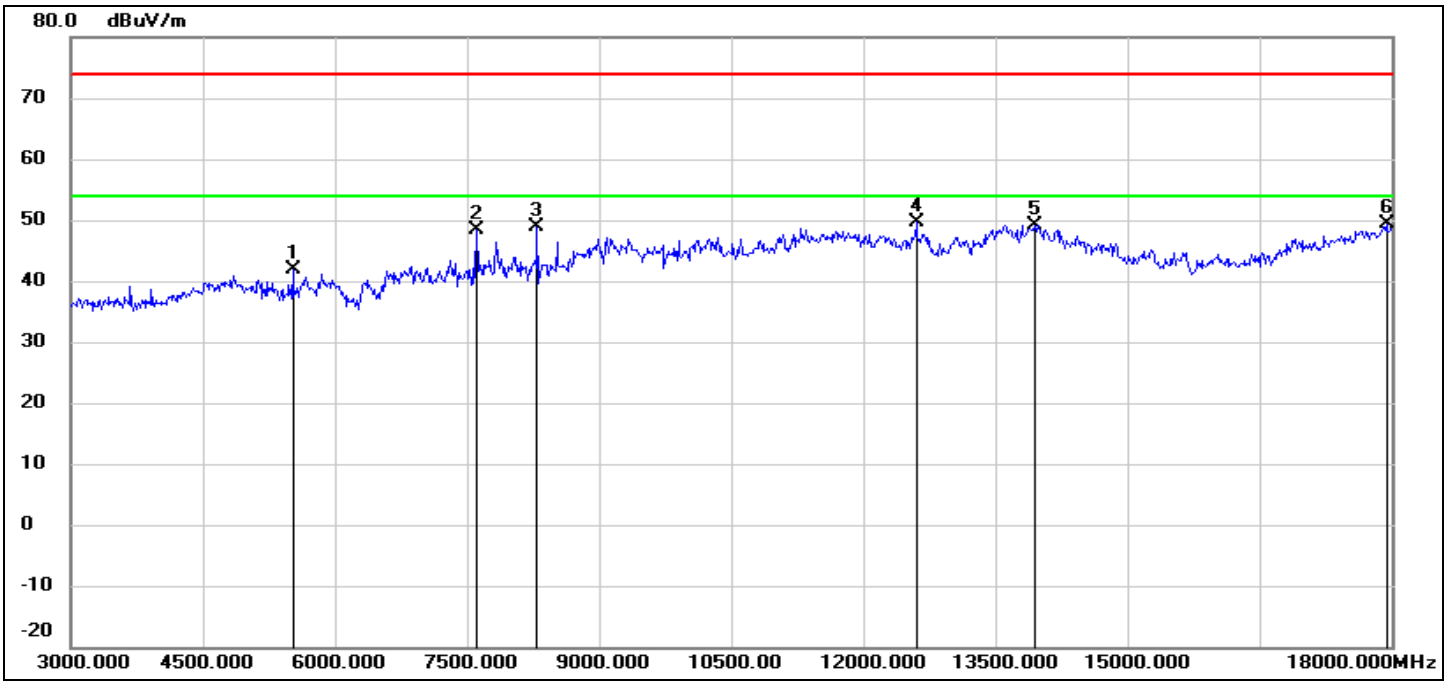
Test Mode:	802.11ax HE40	Channel:	2422
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5985.000	39.20	2.21	41.41	74.00	-32.59	peak
2	7830.000	42.27	6.32	48.59	74.00	-25.41	peak
3	8520.000	42.20	6.98	49.18	74.00	-24.82	peak
4	10140.000	37.76	12.29	50.05	74.00	-23.95	peak
5	13980.000	28.43	21.92	50.35	74.00	-23.65	peak
6	18000.000	25.16	25.69	50.85	74.00	-23.15	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

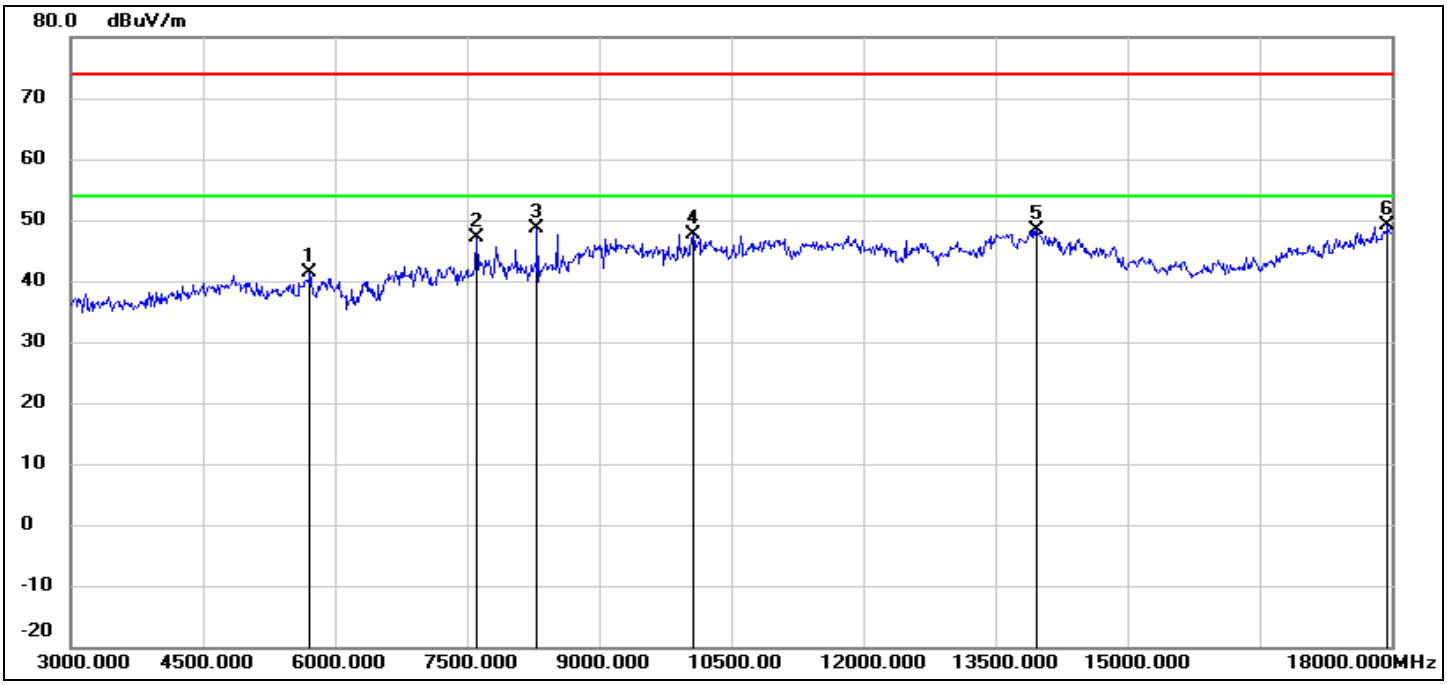
Test Mode:	802.11ax HE40	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	40.86	0.90	41.76	74.00	-32.24	peak
2	7605.000	42.17	6.32	48.49	74.00	-25.51	peak
3	8295.000	42.15	6.62	48.77	74.00	-25.23	peak
4	12600.000	31.69	17.82	49.51	74.00	-24.49	peak
5	13950.000	27.37	21.86	49.23	74.00	-24.77	peak
6	17940.000	24.14	25.34	49.48	74.00	-24.52	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

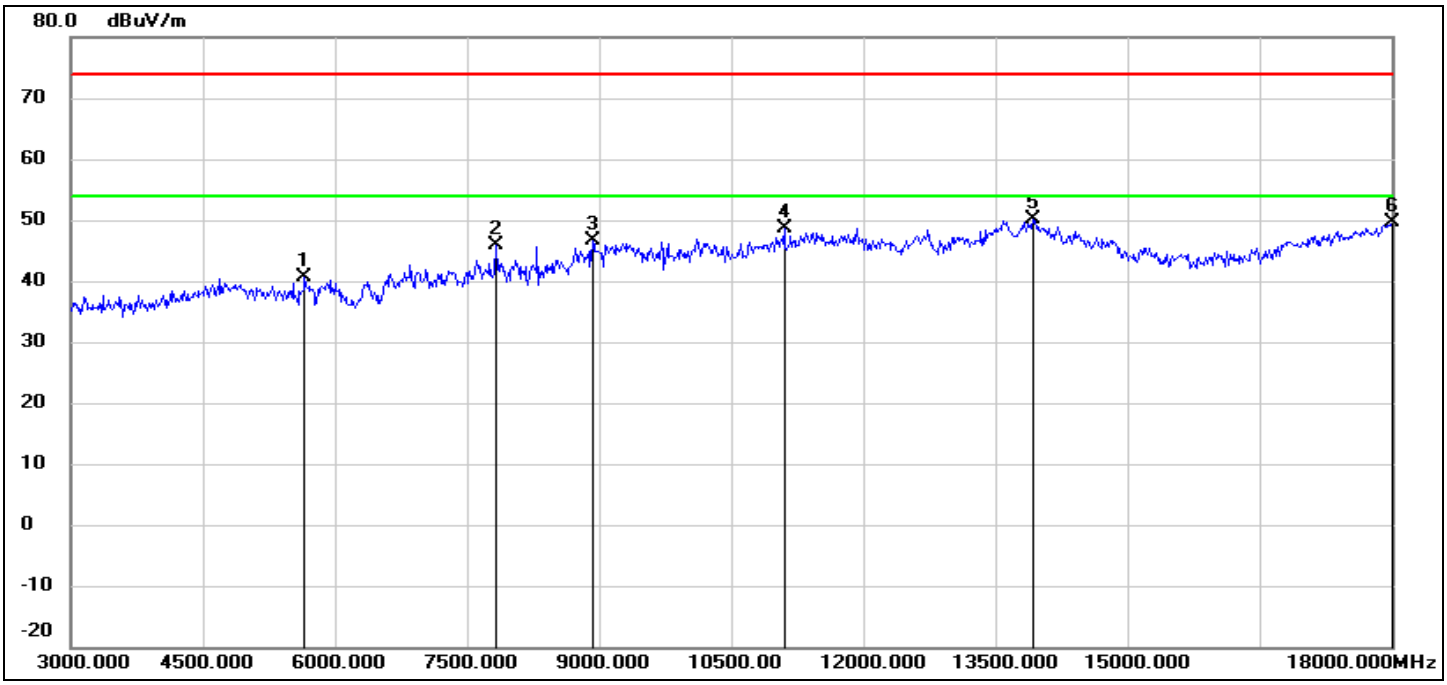
Test Mode:	802.11ax HE40	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5715.000	40.00	1.46	41.46	74.00	-32.54	peak
2	7605.000	40.79	6.32	47.11	74.00	-26.89	peak
3	8295.000	41.89	6.62	48.51	74.00	-25.49	peak
4	10065.000	35.50	12.14	47.64	74.00	-26.36	peak
5	13965.000	26.59	21.89	48.48	74.00	-25.52	peak
6	17955.000	23.68	25.42	49.10	74.00	-24.90	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

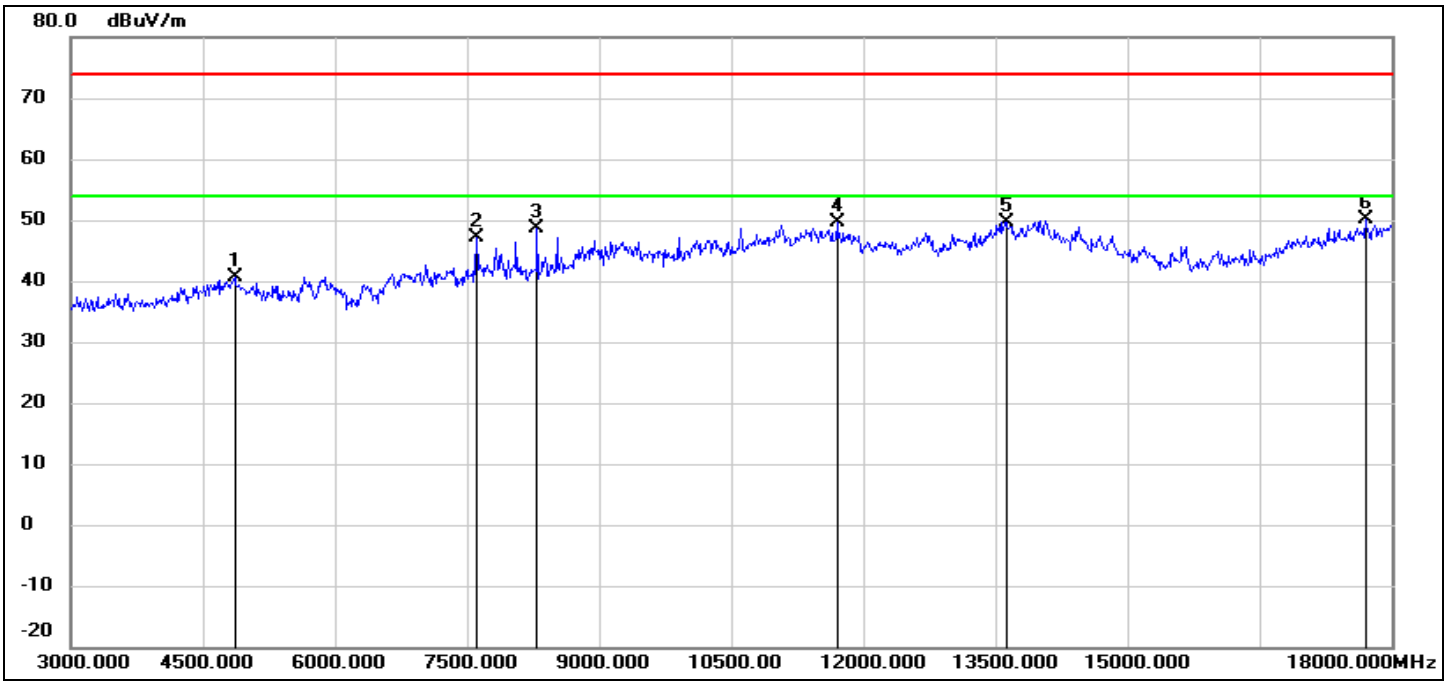
Test Mode:	802.11ax HE40	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5655.000	39.46	1.29	40.75	74.00	-33.25	peak
2	7830.000	39.58	6.32	45.90	74.00	-28.10	peak
3	8925.000	36.60	9.94	46.54	74.00	-27.46	peak
4	11100.000	33.43	15.14	48.57	74.00	-25.43	peak
5	13920.000	28.39	21.79	50.18	74.00	-23.82	peak
6	18000.000	24.00	25.69	49.69	74.00	-24.31	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

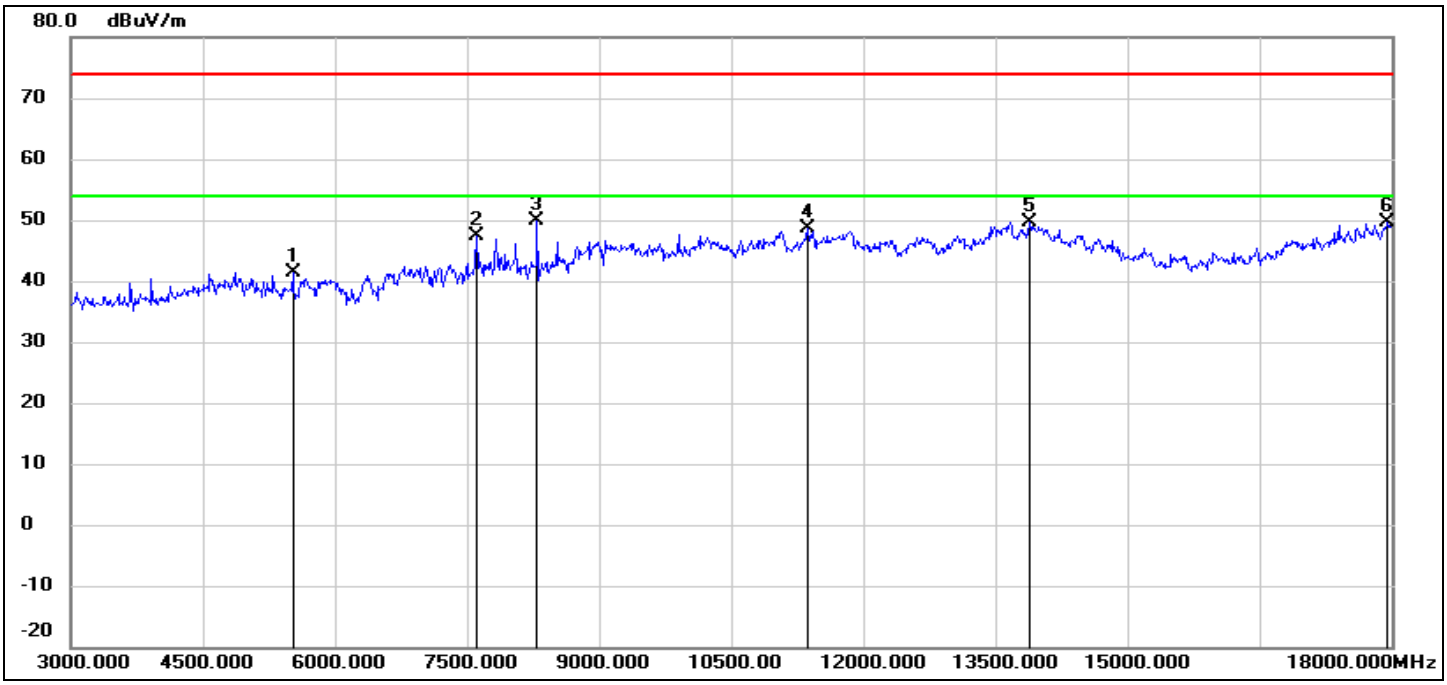
Test Mode:	802.11ax HE40	Channel:	2452
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	40.82	-0.09	40.73	74.00	-33.27	peak
2	7605.000	40.72	6.32	47.04	74.00	-26.96	peak
3	8295.000	41.91	6.62	48.53	74.00	-25.47	peak
4	11700.000	32.41	17.14	49.55	74.00	-24.45	peak
5	13620.000	28.53	21.15	49.68	74.00	-24.32	peak
6	17700.000	26.19	23.91	50.10	74.00	-23.90	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Test Mode:	802.11ax HE40	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 7.27 V

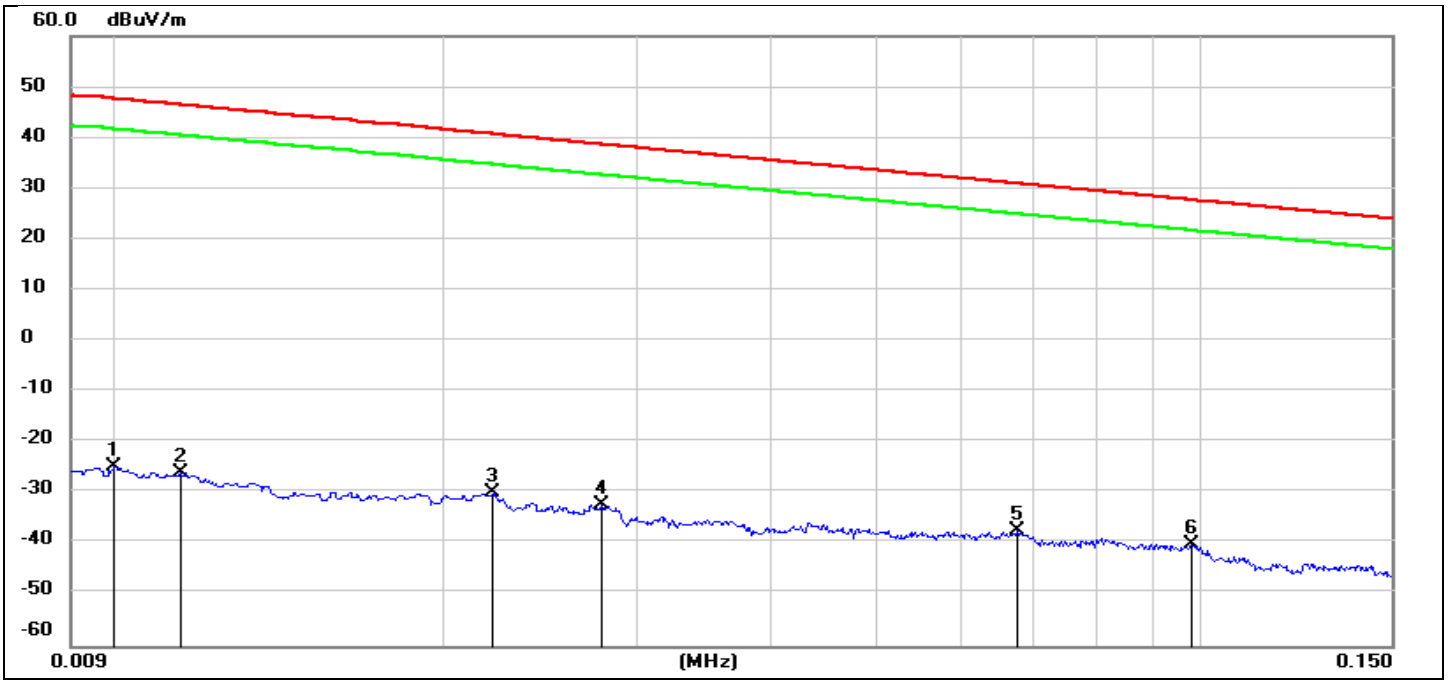


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5520.000	40.49	0.90	41.39	74.00	-32.61	peak
2	7605.000	41.11	6.32	47.43	74.00	-26.57	peak
3	8295.000	43.23	6.62	49.85	74.00	-24.15	peak
4	11370.000	32.54	16.12	48.66	74.00	-25.34	peak
5	13890.000	27.96	21.72	49.68	74.00	-24.32	peak
6	17955.000	24.09	25.42	49.51	74.00	-24.49	peak

Note:
1. Peak Result = 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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

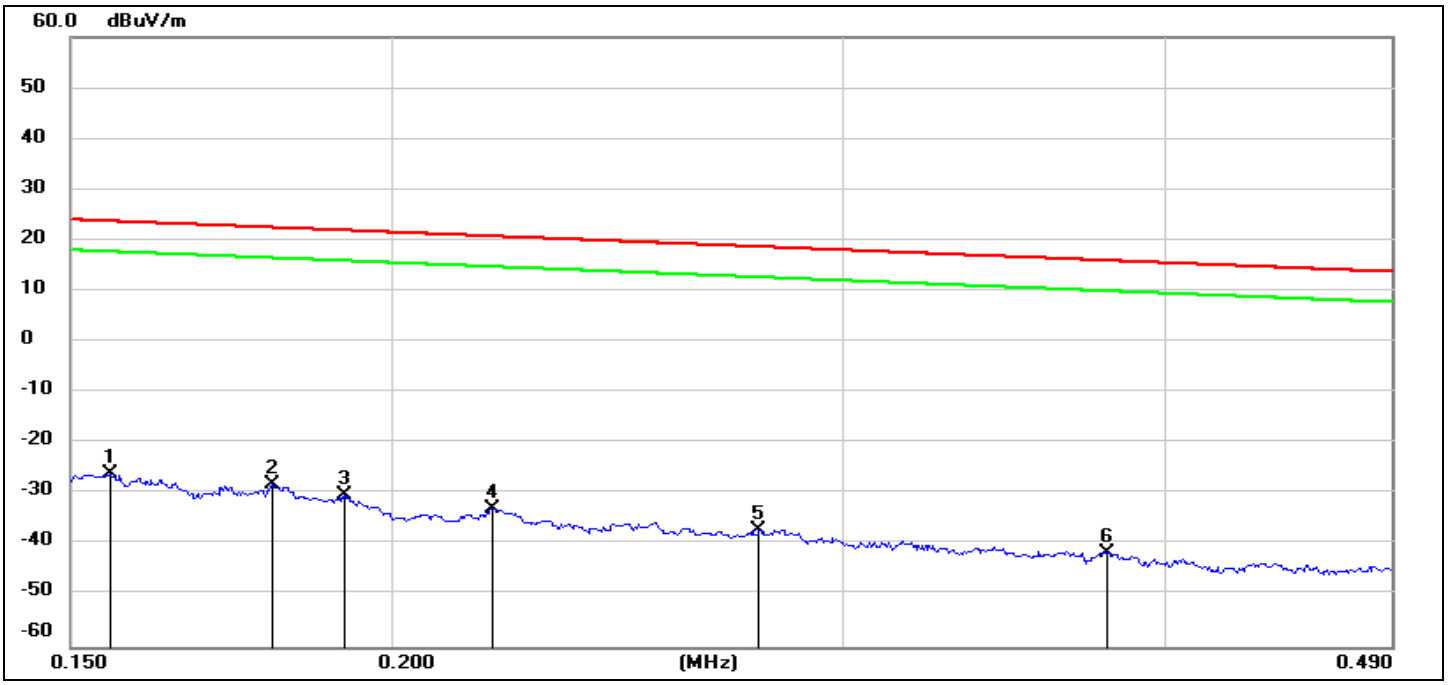
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	76.72	-101.40	-24.68	47.60	-76.18	-3.90	-72.28	peak
2	0.0114	75.50	-101.40	-25.90	46.46	-77.40	-5.04	-72.36	peak
3	0.0221	71.63	-101.35	-29.72	40.71	-81.22	-10.79	-70.43	peak
4	0.0279	69.17	-101.38	-32.21	38.69	-83.71	-12.81	-70.90	peak
5	0.0675	64.14	-101.56	-37.42	31.02	-88.92	-20.48	-68.44	peak
6	0.0981	61.77	-101.78	-40.01	27.77	-91.51	-23.73	-67.78	peak

Note:
1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

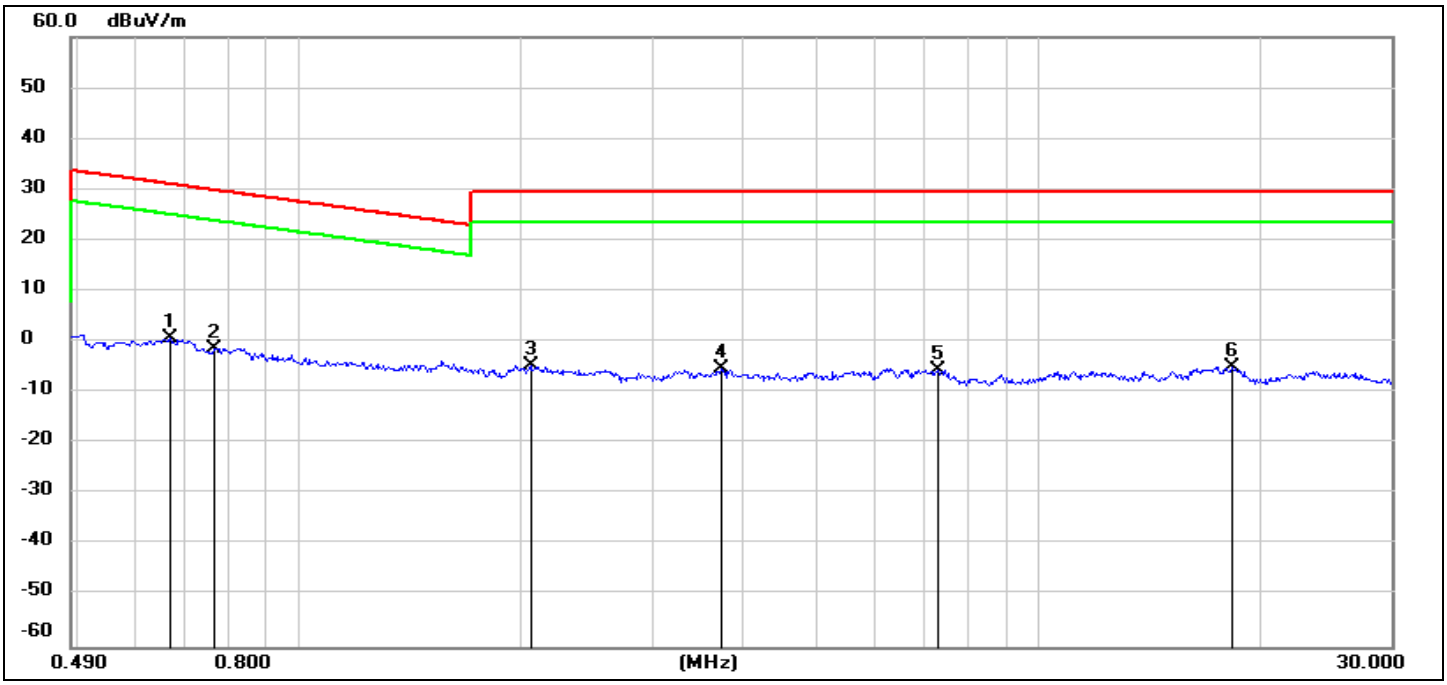
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	75.77	-101.65	-25.88	23.77	-77.38	-27.73	-49.65	peak
2	0.1800	73.65	-101.68	-28.03	22.50	-79.53	-29.00	-50.53	peak
3	0.1917	71.54	-101.70	-30.16	21.95	-81.66	-29.55	-52.11	peak
4	0.2190	68.77	-101.75	-32.98	20.79	-84.48	-30.71	-53.77	peak
5	0.2782	64.79	-101.83	-37.04	18.71	-88.54	-32.79	-55.75	peak
6	0.3800	60.52	-101.94	-41.42	16.01	-92.92	-35.49	-57.43	peak

Note:
1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



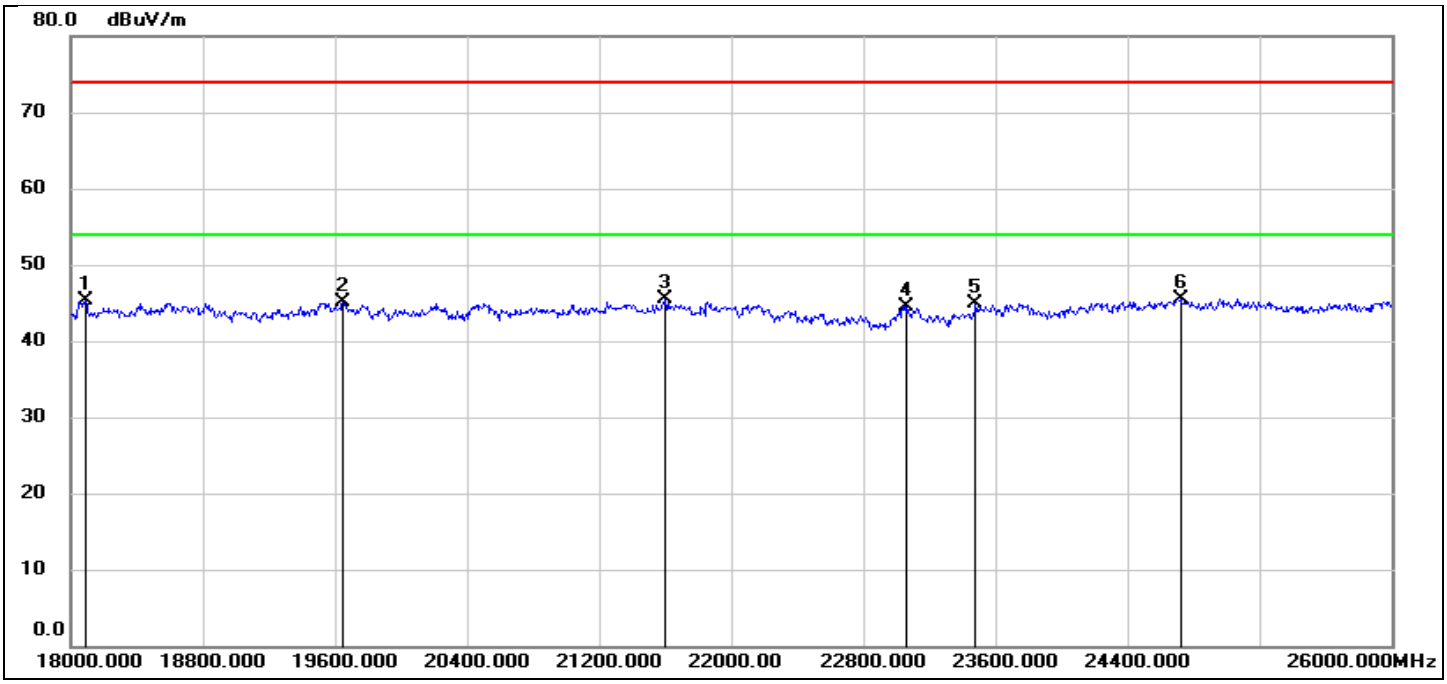
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.6671	62.75	-62.10	0.65	31.12	-50.85	-20.38	-30.47	peak
2	0.7641	60.92	-62.12	-1.20	29.94	-52.70	-21.56	-31.14	peak
3	2.0539	57.20	-61.81	-4.61	29.54	-56.11	-21.96	-34.15	peak
4	3.7100	56.20	-61.41	-5.21	29.54	-56.71	-21.96	-34.75	peak
5	7.3361	55.58	-61.17	-5.59	29.54	-57.09	-21.96	-35.13	peak
6	18.2545	55.93	-60.90	-4.97	29.54	-56.47	-21.96	-34.51	peak

Note:
1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note:
All the modes have been tested, only the worst data was recorded in the report.

8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

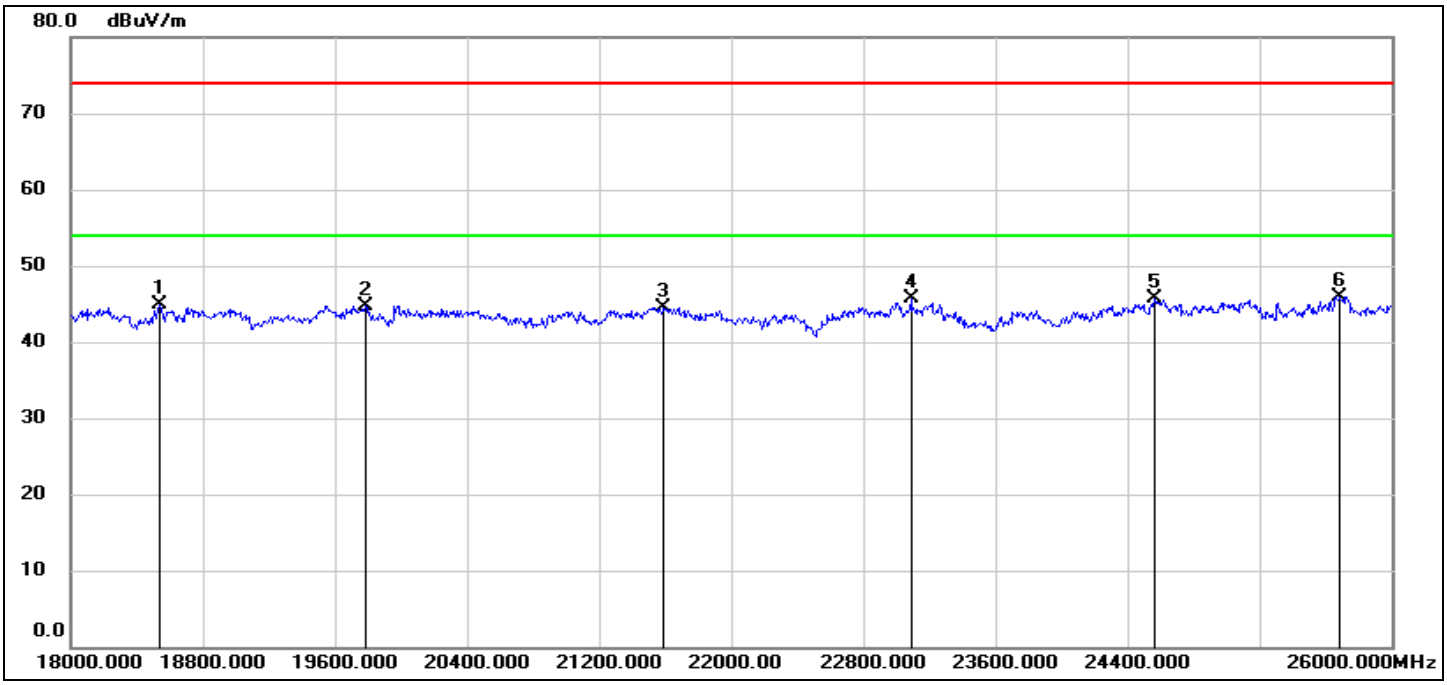
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18088.000	50.75	-5.43	45.32	74.00	-28.68	peak
2	19648.000	50.40	-5.37	45.03	74.00	-28.97	peak
3	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
4	23064.000	47.99	-3.42	44.57	74.00	-29.43	peak
5	23480.000	48.04	-3.16	44.88	74.00	-29.12	peak
6	24720.000	47.86	-2.33	45.53	74.00	-28.47	peak

Note:
1. Peak Result = 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.

Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



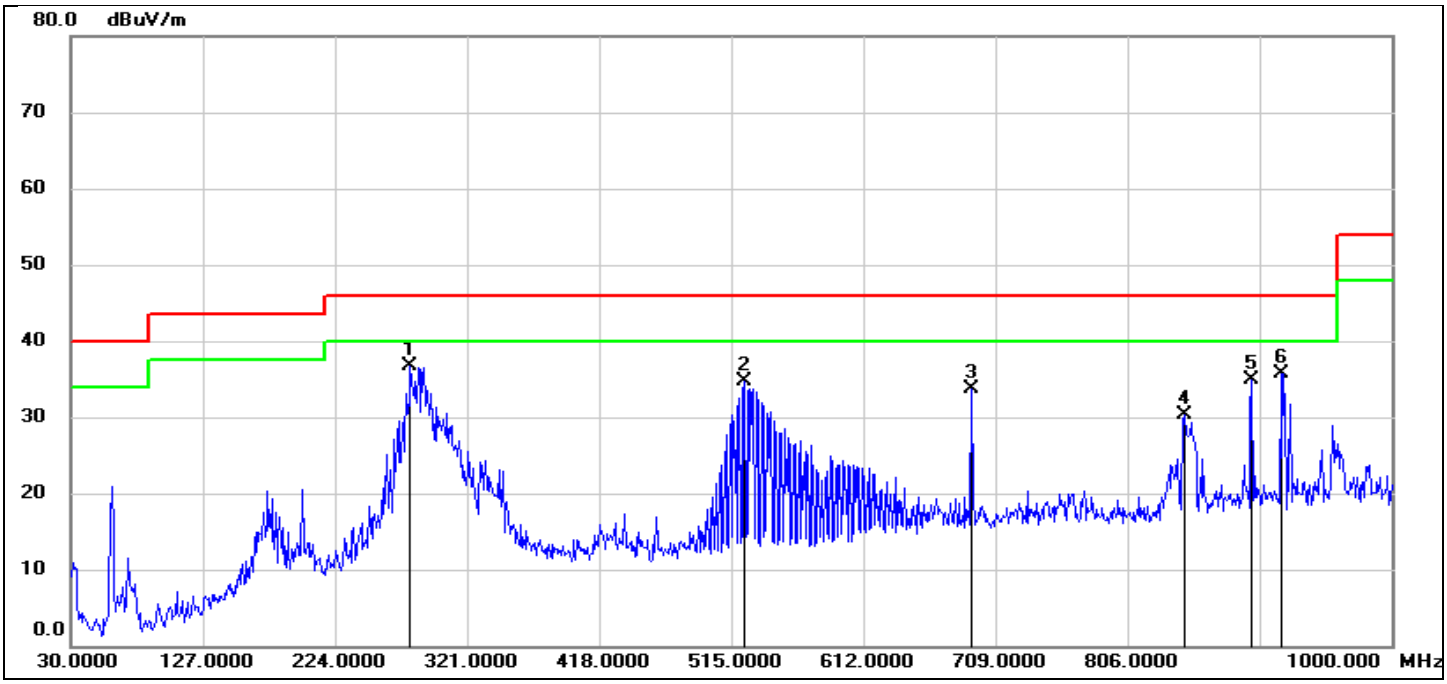
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18536.000	50.10	-5.27	44.83	74.00	-29.17	peak
2	19784.000	50.07	-5.28	44.79	74.00	-29.21	peak
3	21592.000	49.14	-4.55	44.59	74.00	-29.41	peak
4	23088.000	49.02	-3.41	45.61	74.00	-28.39	peak
5	24568.000	48.10	-2.33	45.77	74.00	-28.23	peak
6	25688.000	46.81	-0.90	45.91	74.00	-28.09	peak

Note:
1. Peak Result = 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.

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

8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

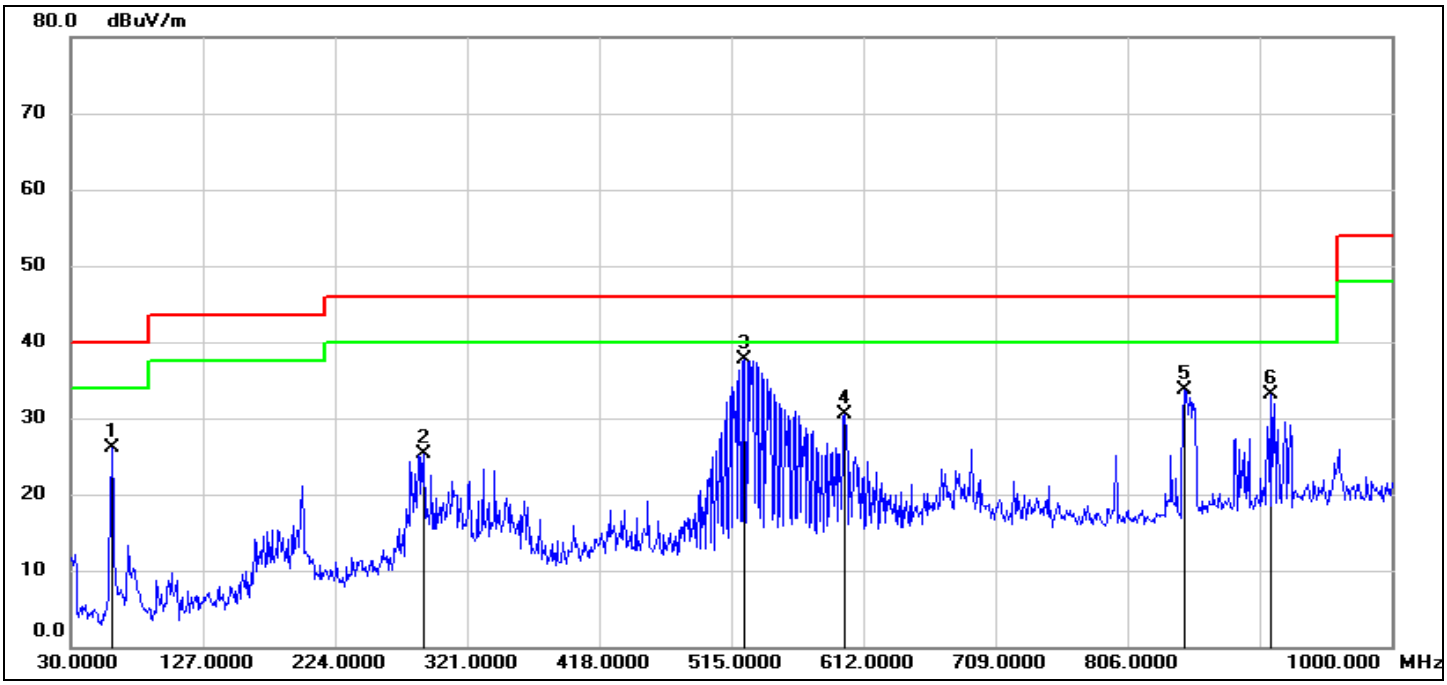
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	279.2900	53.54	-16.76	36.78	46.00	-9.22	QP
2	524.7000	45.57	-10.96	34.61	46.00	-11.39	QP
3	691.5400	42.05	-8.34	33.71	46.00	-12.29	QP
4	847.7100	36.53	-6.31	30.22	46.00	-15.78	QP
5	897.1800	40.14	-5.22	34.92	46.00	-11.08	QP
6	918.5200	40.58	-4.78	35.80	46.00	-10.20	QP

Note:
1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 7.27 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	60.0700	46.62	-20.49	26.13	40.00	-13.87	QP
2	288.9900	41.24	-15.98	25.26	46.00	-20.74	QP
3	524.7000	48.62	-10.96	37.66	46.00	-8.34	QP
4	598.4200	40.08	-9.59	30.49	46.00	-15.51	QP
5	847.7100	40.06	-6.31	33.75	46.00	-12.25	QP
6	910.7600	38.12	-4.97	33.15	46.00	-12.85	QP

Note:
1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3 Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Note:
All the modes have been tested, only the worst data was recorded in the report.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

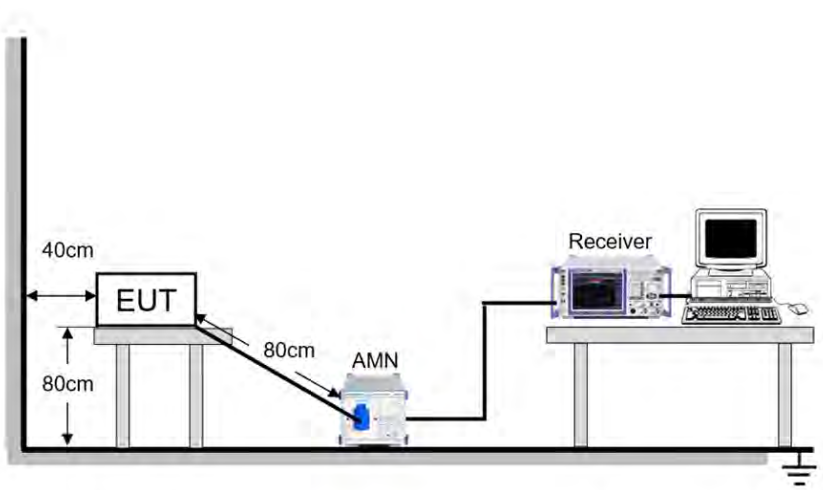
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

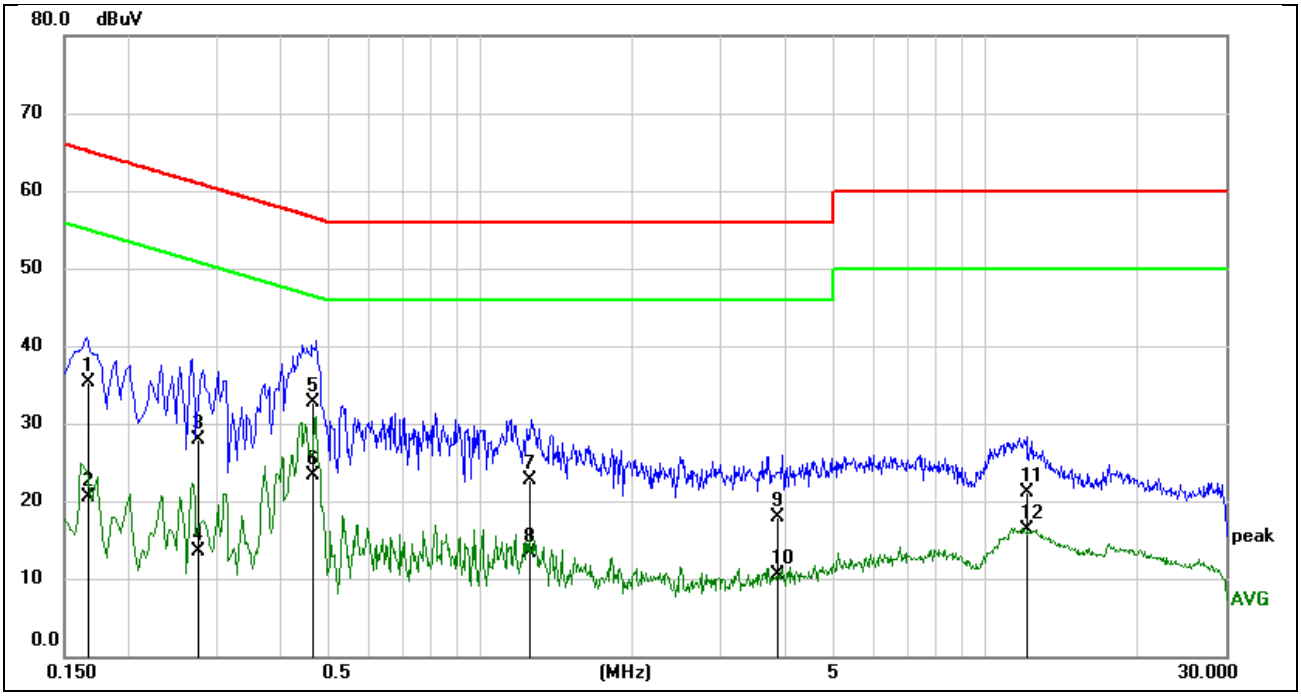
Temperature	20.1 °C	Relative Humidity	57.7 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60Hz

TEST DATE / ENGINEER

Test Date	Jan. 15, 2023	Test By	Andy Wan

TEST RESULTS

Test Mode:	802.11b	Line:	Line

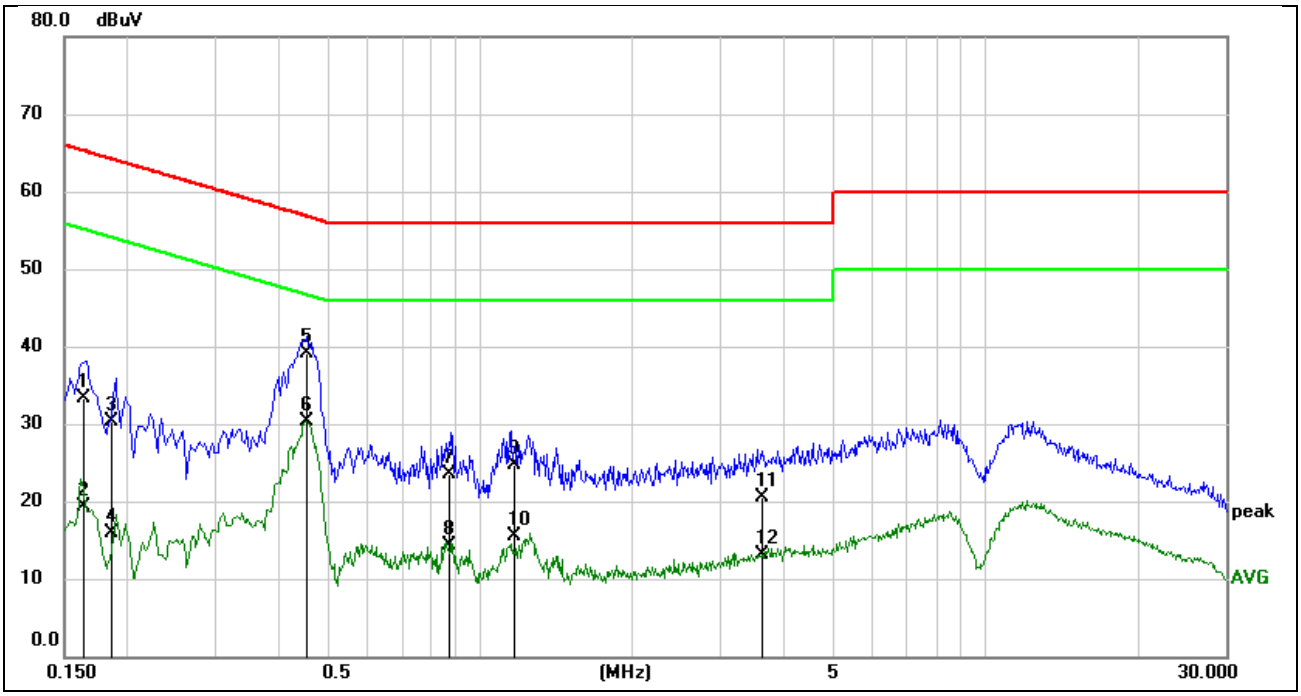


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1674	25.69	9.59	35.28	65.09	-29.81	QP
2	0.1674	10.85	9.59	20.44	55.09	-34.65	AVG
3	0.2748	18.33	9.59	27.92	60.97	-33.05	QP
4	0.2748	3.85	9.59	13.44	50.97	-37.53	AVG
5	0.4694	23.16	9.60	32.76	56.52	-23.76	QP
6	0.4694	13.69	9.60	23.29	46.52	-23.23	AVG
7	1.2515	13.15	9.61	22.76	56.00	-33.24	QP
8	1.2515	3.73	9.61	13.34	46.00	-32.66	AVG
9	3.9193	8.12	9.70	17.82	56.00	-38.18	QP
10	3.9193	0.72	9.70	10.42	46.00	-35.58	AVG
11	12.1231	11.31	9.76	21.07	60.00	-38.93	QP
12	12.1231	6.51	9.76	16.27	50.00	-33.73	AVG

Note:

1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Test Mode:	802.11b	Line:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1637	23.65	9.59	33.24	65.27	-32.03	QP
2	0.1637	9.64	9.59	19.23	55.27	-36.04	AVG
3	0.1852	20.76	9.59	30.35	64.25	-33.90	QP
4	0.1852	6.23	9.59	15.82	54.25	-38.43	AVG
5	0.4505	29.49	9.60	39.09	56.87	-17.78	QP
6	0.4505	20.69	9.60	30.29	46.87	-16.58	AVG
7	0.8715	13.95	9.60	23.55	56.00	-32.45	QP
8	0.8715	4.76	9.60	14.36	46.00	-31.64	AVG
9	1.1627	15.02	9.61	24.63	56.00	-31.37	QP
10	1.1627	5.85	9.61	15.46	46.00	-30.54	AVG
11	3.6082	10.87	9.69	20.56	56.00	-35.44	QP
12	3.6082	3.49	9.69	13.18	46.00	-32.82	AVG

Note:

1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

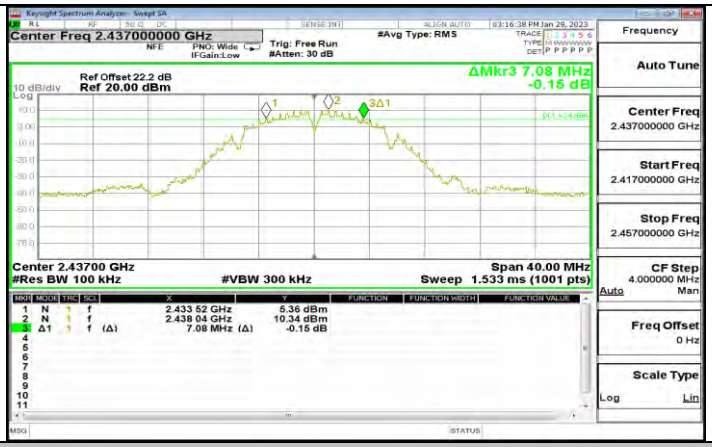
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	6.600	2409.000	2415.600	>=0.5	PASS
	Ant0	2412	8.040	2408.040	2416.080	>=0.5	PASS
	Ant1	2437	7.560	2433.520	2441.080	>=0.5	PASS
	Ant0	2437	7.080	2433.520	2440.600	>=0.5	PASS
	Ant1	2462	7.560	2458.520	2466.080	>=0.5	PASS
	Ant0	2462	7.560	2458.520	2466.080	>=0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	>=0.5	PASS
	Ant0	2412	16.320	2403.920	2420.240	>=0.5	PASS
	Ant1	2437	16.320	2428.920	2445.240	>=0.5	PASS
	Ant0	2437	16.360	2428.880	2445.240	>=0.5	PASS
	Ant1	2462	16.360	2453.880	2470.240	>=0.5	PASS
	Ant0	2462	16.360	2453.880	2470.240	>=0.5	PASS
11N20MIMO	Ant1	2412	17.560	2403.280	2420.840	>=0.5	PASS
	Ant0	2412	17.560	2403.280	2420.840	>=0.5	PASS
	Ant1	2437	17.560	2428.280	2445.840	>=0.5	PASS
	Ant0	2437	17.560	2428.280	2445.840	>=0.5	PASS
	Ant1	2462	17.560	2453.280	2470.840	>=0.5	PASS
	Ant0	2462	17.560	2453.280	2470.840	>=0.5	PASS
11N40MIMO	Ant1	2422	36.320	2403.920	2440.240	>=0.5	PASS
	Ant0	2422	36.320	2403.920	2440.240	>=0.5	PASS
	Ant1	2437	36.320	2418.920	2455.240	>=0.5	PASS
	Ant0	2437	36.320	2418.920	2455.240	>=0.5	PASS
	Ant1	2452	36.320	2433.920	2470.240	>=0.5	PASS
	Ant0	2452	36.320	2433.920	2470.240	>=0.5	PASS
11AX20MIMO	Ant1	2412	18.440	2403.040	2421.480	>=0.5	PASS
	Ant0	2412	18.200	2403.240	2421.440	>=0.5	PASS
	Ant1	2437	18.480	2428.000	2446.480	>=0.5	PASS
	Ant0	2437	18.120	2428.240	2446.360	>=0.5	PASS
	Ant1	2462	18.400	2453.080	2471.480	>=0.5	PASS
	Ant0	2462	18.080	2453.240	2471.320	>=0.5	PASS
11AX40MIMO	Ant1	2422	37.840	2403.200	2441.040	>=0.5	PASS
	Ant0	2422	37.520	2403.280	2440.800	>=0.5	PASS
	Ant1	2437	37.760	2418.040	2455.800	>=0.5	PASS
	Ant0	2437	37.760	2418.200	2455.960	>=0.5	PASS
	Ant1	2452	37.760	2433.200	2470.960	>=0.5	PASS
	Ant0	2452	37.520	2433.280	2470.800	>=0.5	PASS

11.1.2. Test Graphs

11B_Ant1_2412

11B_Ant0_2412

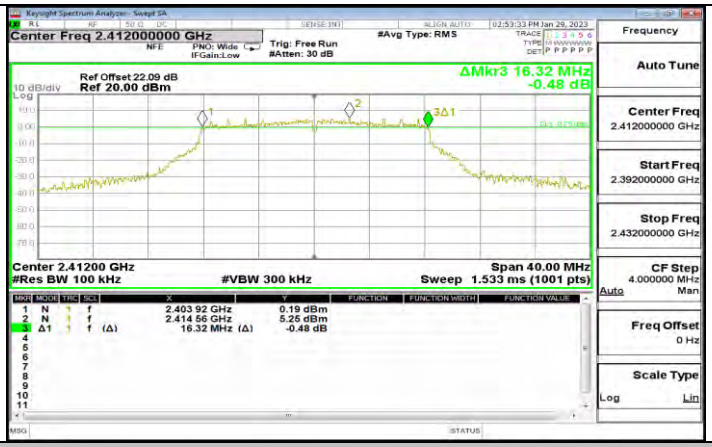
11B_Ant1_2437



11B_Ant0_2437

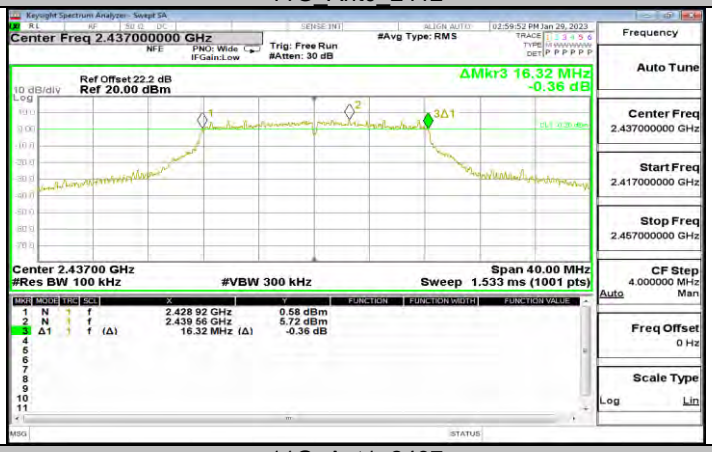
11B_Ant1_2462

11B_Ant0_2462



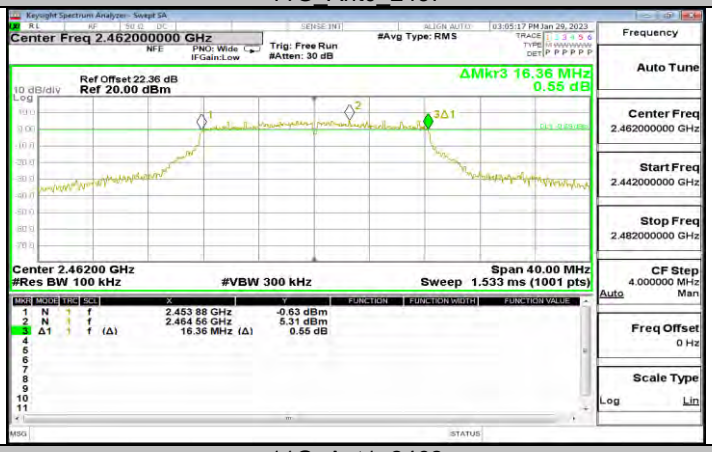
11G_Ant1_2412

11G_Ant0_2412



11G_Ant1_2437

11G_Ant0_2437



11G_Ant1_2462

11G_Ant0_2462

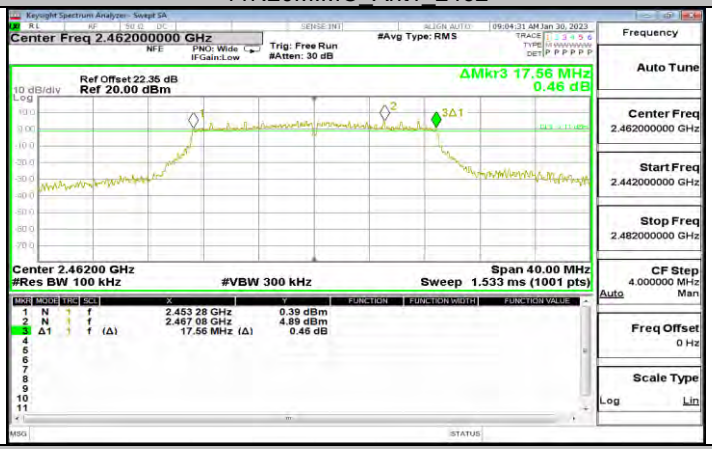
11N20MIMO_Ant1_2412

11N20MIMO_Ant0_2412

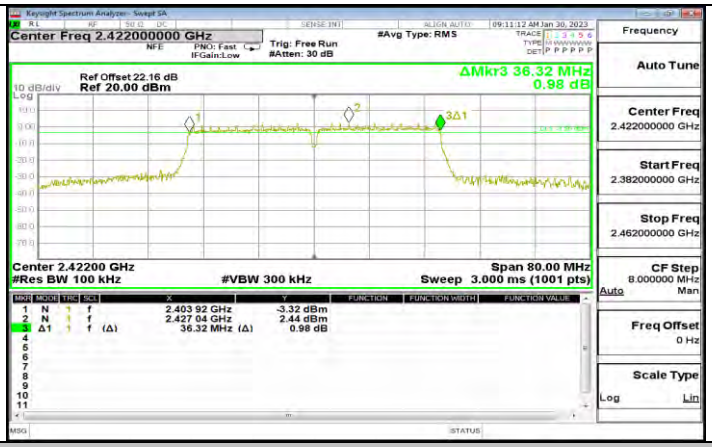
11N20MIMO_Ant1_2437

11N20MIMO_Ant0_2437

11N20MIMO_Ant1_2462

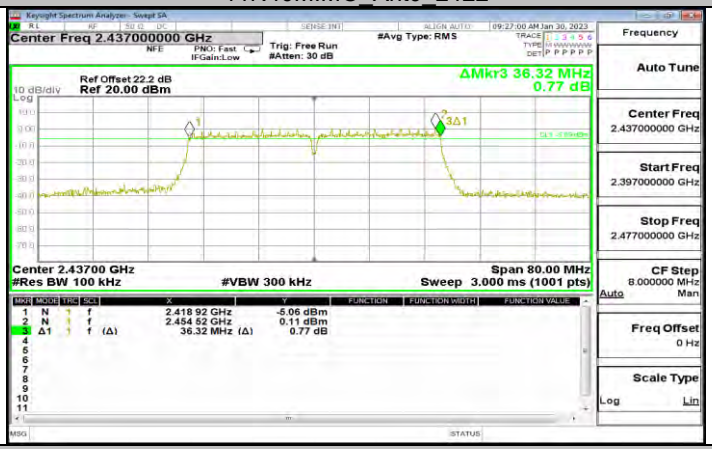


11N20MIMO_Ant0_2462

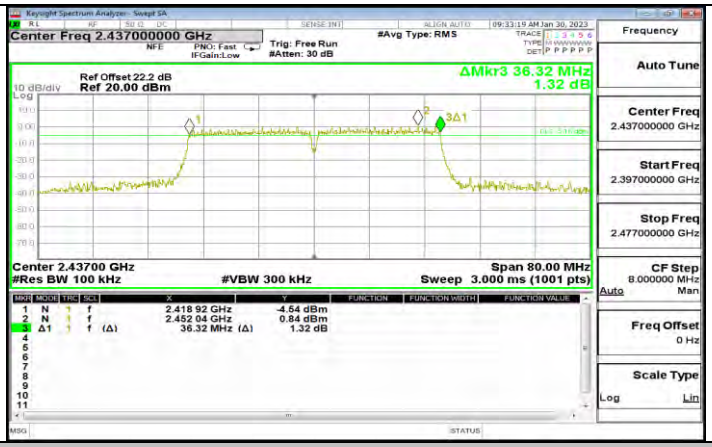


11N40MIMO_Ant1_2422

11N40MIMO_Ant0_2422



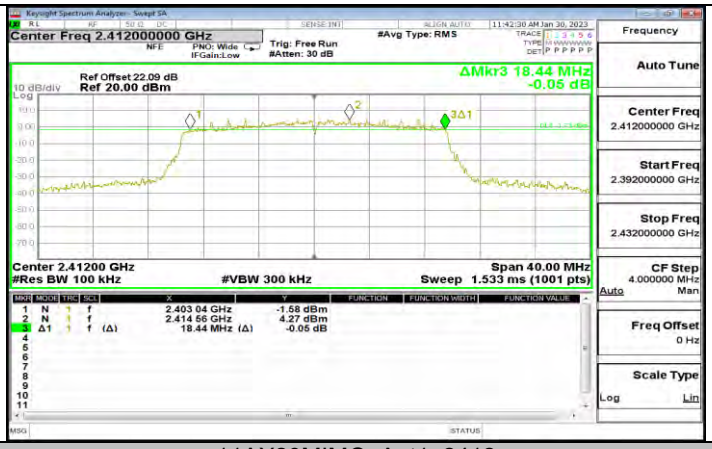
11N40MIMO_Ant1_2437



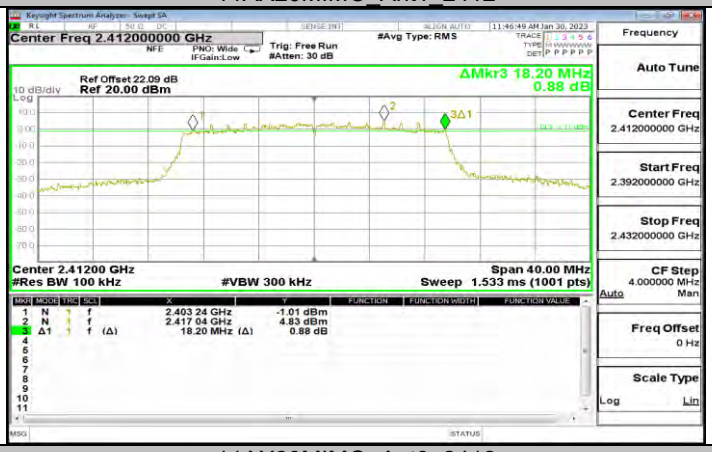
11N40MIMO_Ant0_2437

11N40MIMO_Ant1_2452

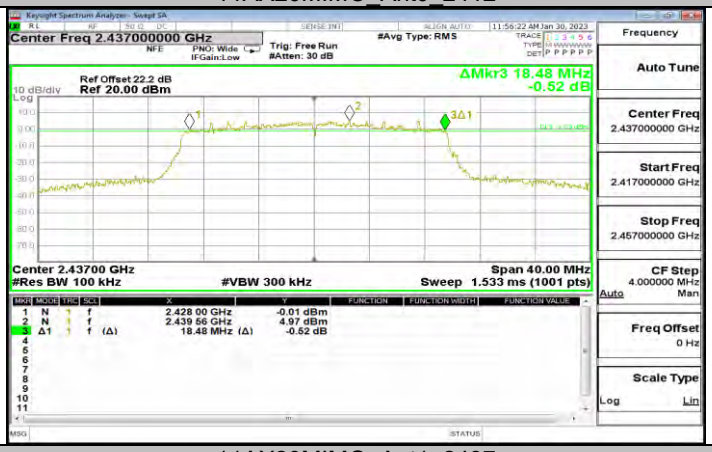
11N40MIMO_Ant0_2452



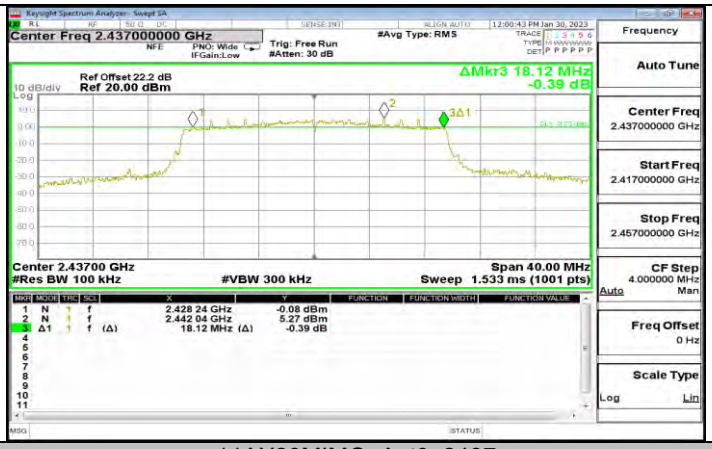
11AX20MIMO_Ant1_2412



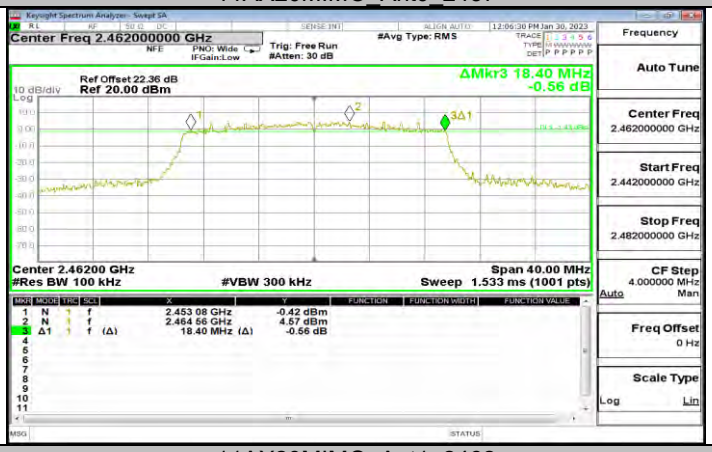
11AX20MIMO_Ant0_2412



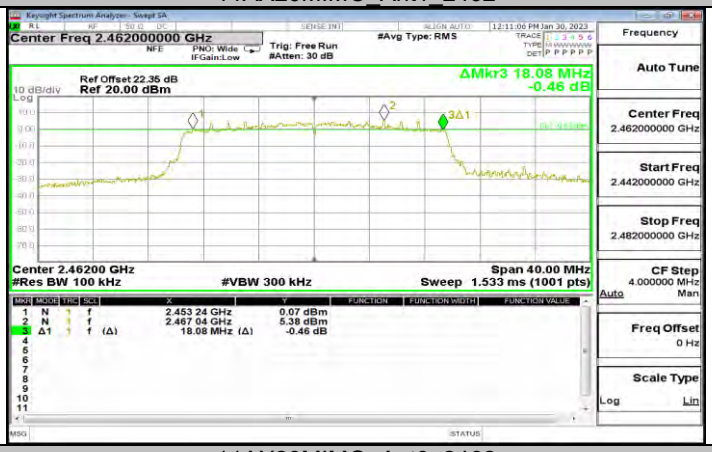
11AX20MIMO_Ant1_2437



11AX20MIMO_Ant0_2437



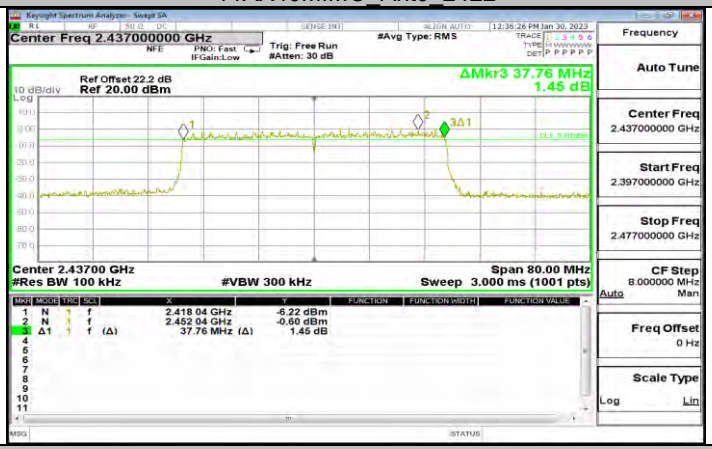
11AX20MIMO_Ant1_2462



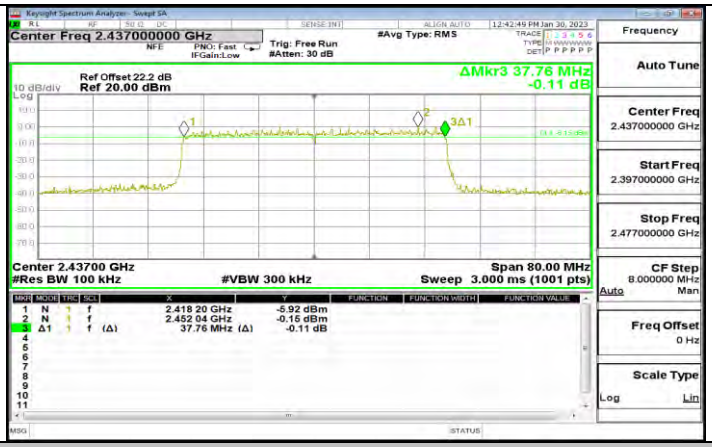
11AX20MIMO_Ant0_2462

11AX40MIMO_Ant1_2422

11AX40MIMO_Ant0_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant0_2437

11AX40MIMO_Ant1_2452

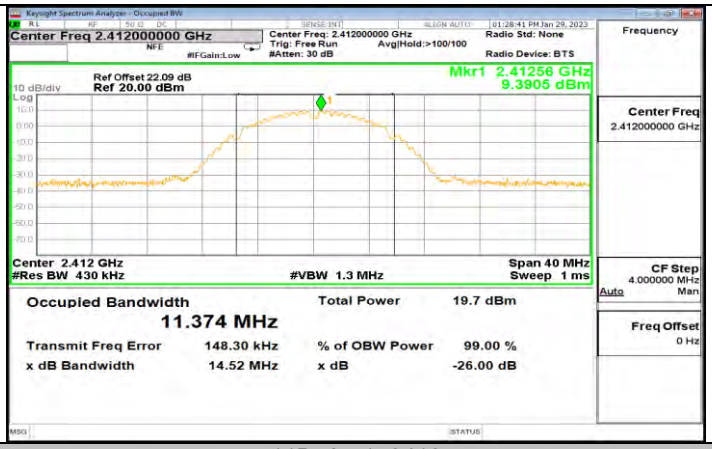
11AX40MIMO_Ant0_2452

11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

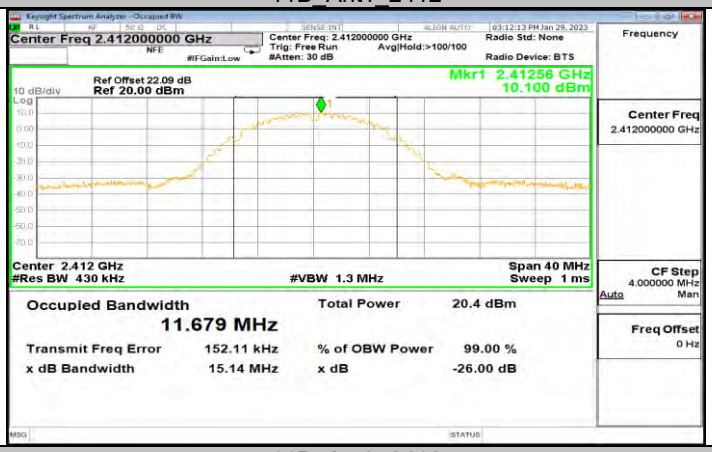
11.2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	11.374	2406.4676	2417.8336	PASS
	Ant0	2412	11.679	2406.3158	2417.9898	PASS
	Ant1	2437	11.346	2431.4536	2442.7946	PASS
	Ant0	2437	11.775	2431.2306	2442.9986	PASS
	Ant1	2462	11.447	2456.3952	2467.8412	PASS
	Ant0	2462	11.810	2456.2126	2468.0176	PASS
11G	Ant1	2412	17.467	2403.3676	2420.8316	PASS
	Ant0	2412	17.490	2403.4155	2420.8805	PASS
	Ant1	2437	17.475	2428.3472	2445.8042	PASS
	Ant0	2437	17.523	2428.4063	2445.8953	PASS
	Ant1	2462	17.481	2453.3348	2470.7948	PASS
	Ant0	2462	17.476	2453.4011	2470.8641	PASS
11N20MIMO	Ant1	2412	18.439	2402.8835	2421.3115	PASS
	Ant0	2412	17.987	2403.1324	2421.1324	PASS
	Ant1	2437	18.331	2427.9232	2446.2542	PASS
	Ant0	2437	17.971	2428.1144	2446.0954	PASS
	Ant1	2462	18.379	2452.9201	2471.2591	PASS
	Ant0	2462	18.106	2453.1129	2471.1969	PASS
11N40MIMO	Ant1	2422	36.877	2403.7563	2440.6263	PASS
	Ant0	2422	36.627	2403.8643	2440.4883	PASS
	Ant1	2437	36.752	2418.8139	2455.5549	PASS
	Ant0	2437	36.612	2418.8695	2455.4895	PASS
	Ant1	2452	36.822	2433.7959	2470.5419	PASS
	Ant0	2452	36.554	2433.9133	2470.4263	PASS
11AX20MIMO	Ant1	2412	19.057	2402.5764	2421.6194	PASS
	Ant0	2412	19.015	2402.5874	2421.6034	PASS
	Ant1	2437	19.003	2427.5872	2446.5742	PASS
	Ant0	2437	19.024	2427.5811	2446.5861	PASS
	Ant1	2462	18.978	2452.5934	2471.5794	PASS
	Ant0	2462	19.026	2452.5863	2471.5883	PASS
11AX40MIMO	Ant1	2422	37.699	2403.3178	2441.0128	PASS
	Ant0	2422	37.733	2403.3221	2441.0421	PASS
	Ant1	2437	37.764	2418.2625	2456.0485	PASS
	Ant0	2437	37.747	2418.2745	2456.0335	PASS
	Ant1	2452	37.728	2433.3104	2471.0374	PASS
	Ant0	2452	37.789	2433.2616	2471.0556	PASS

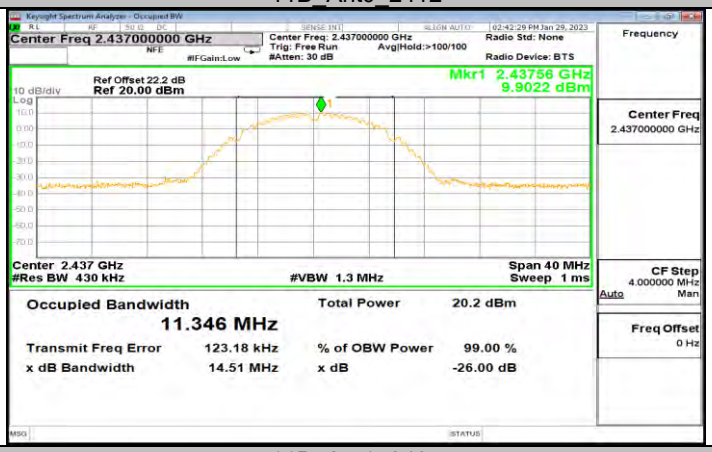
11.2.2. Test Graphs



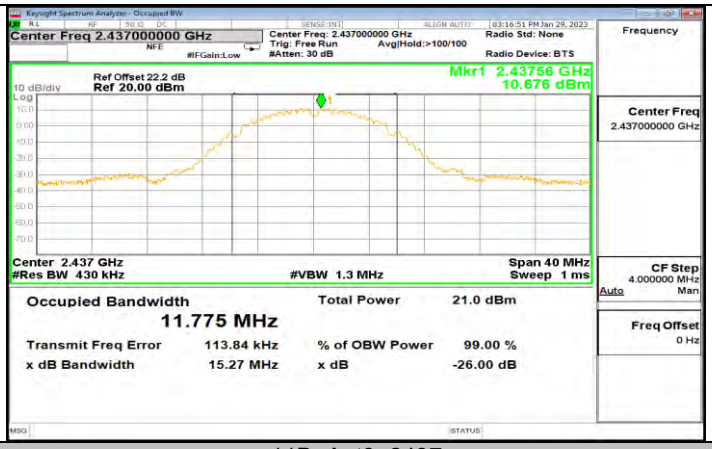
11B_Ant1_2412



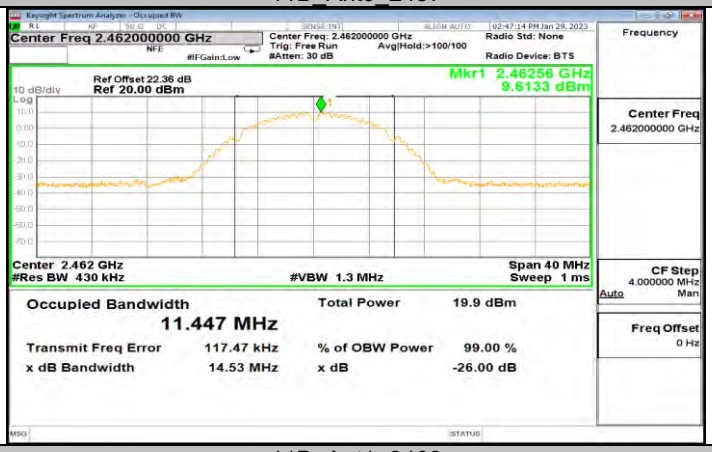
11B_Ant0_2412



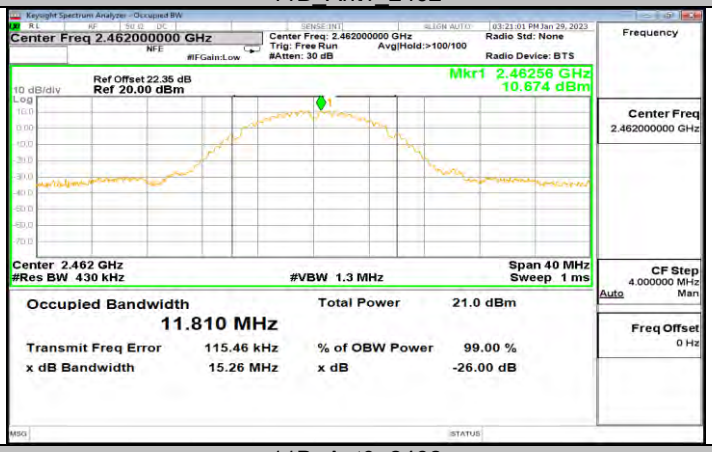
11B_Ant1_2437



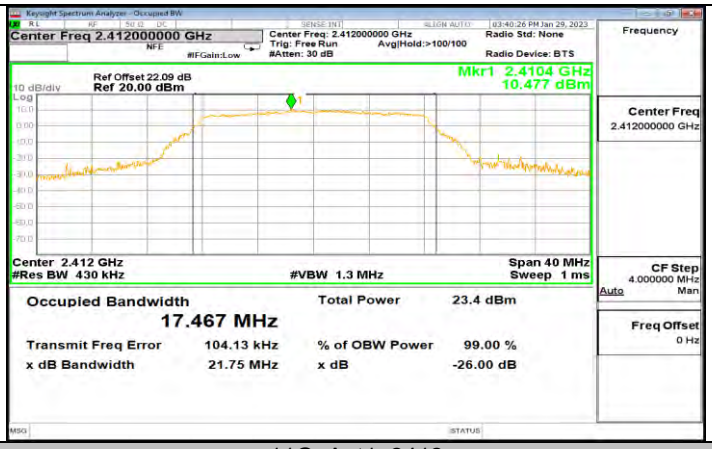
11B_Ant0_2437



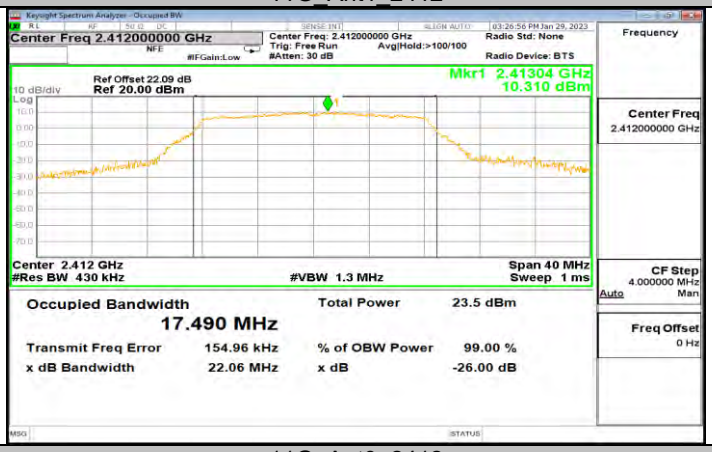
11B_Ant1_2462



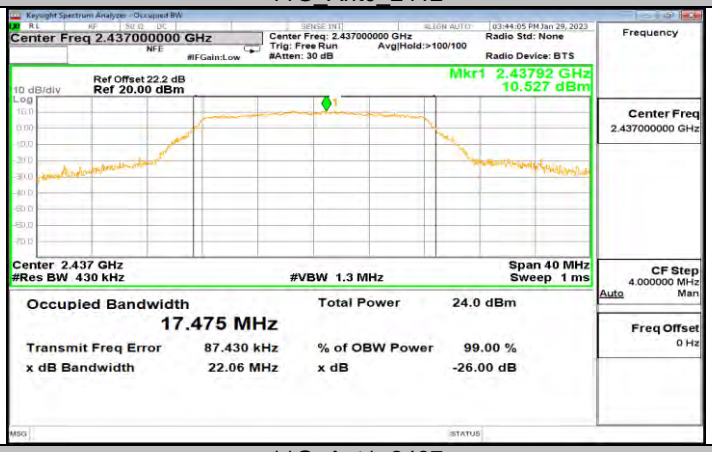
11B_Ant0_2462



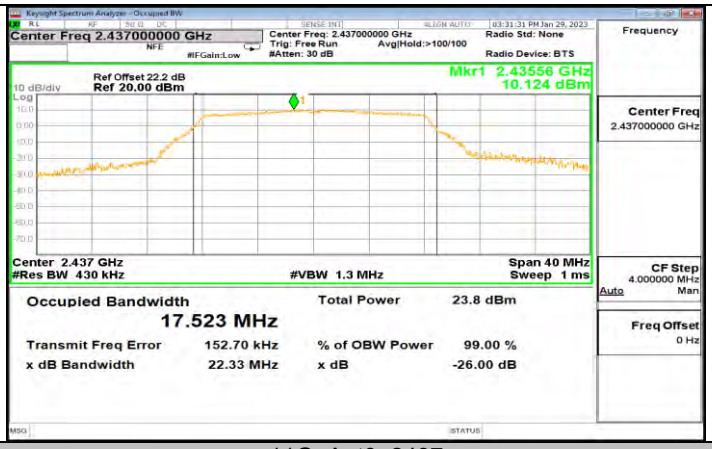
11G_Ant1_2412



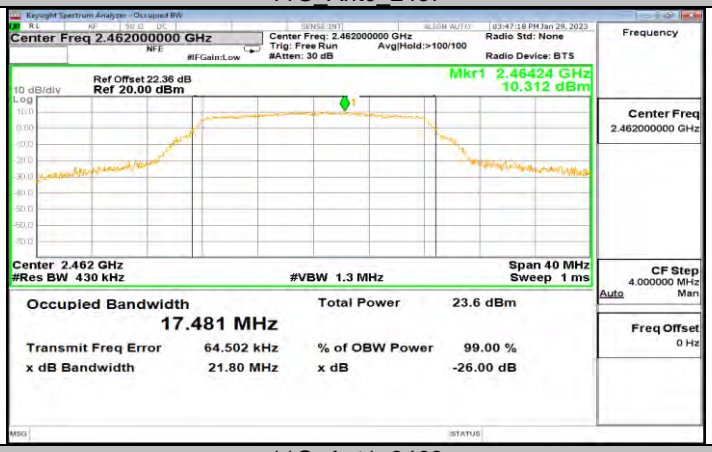
11G_Ant0_2412



11G_Ant1_2437



11G_Ant0_2437



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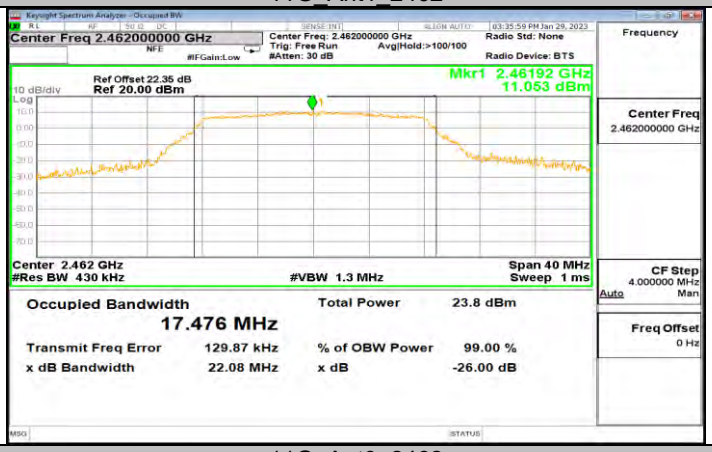
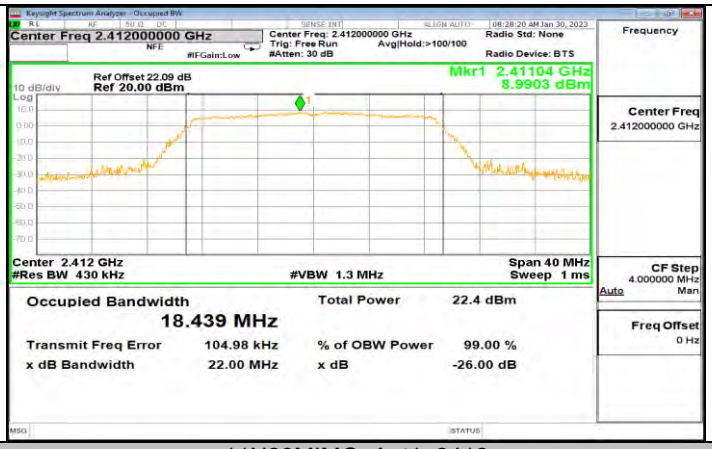
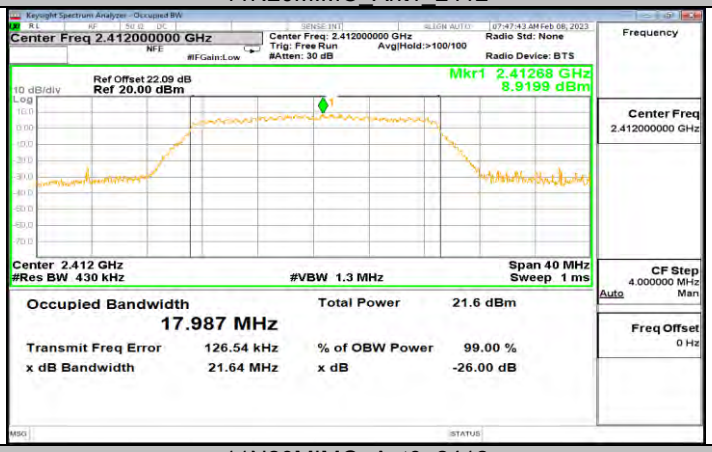


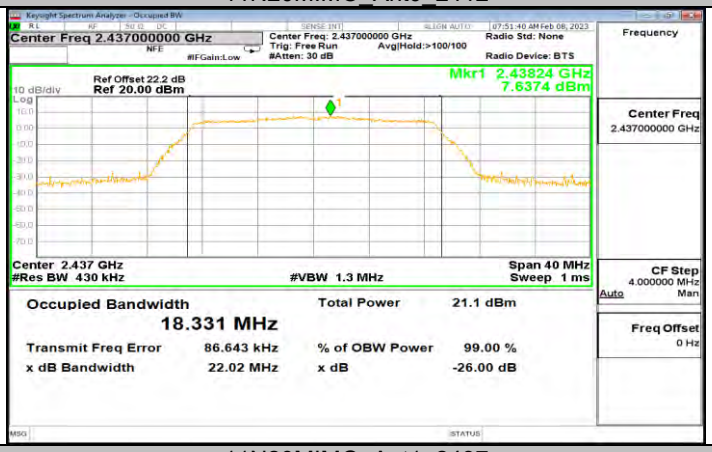
11G_Ant0_2462



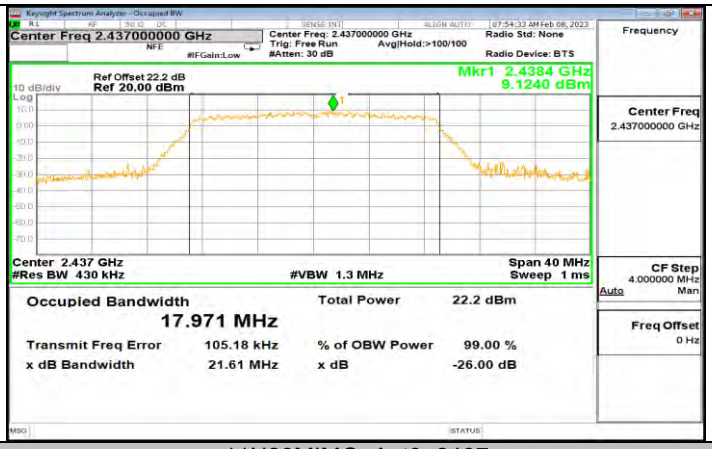
11N20MIMO_Ant1_2412



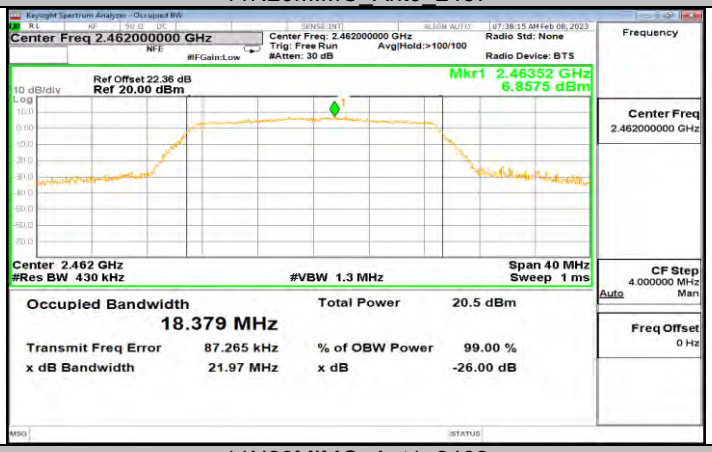
11N20MIMO_Ant0_2412



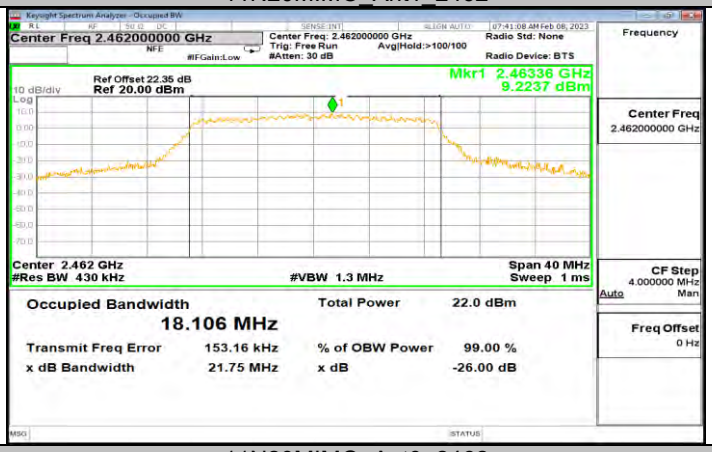
11N20MIMO_Ant1_2437



11N20MIMO_Ant0_2437



11N20MIMO_Ant1_2462



11N20MIMO_Ant0_2462