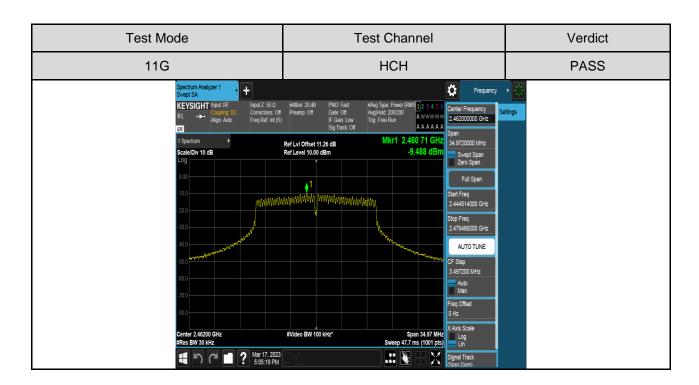
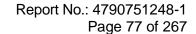




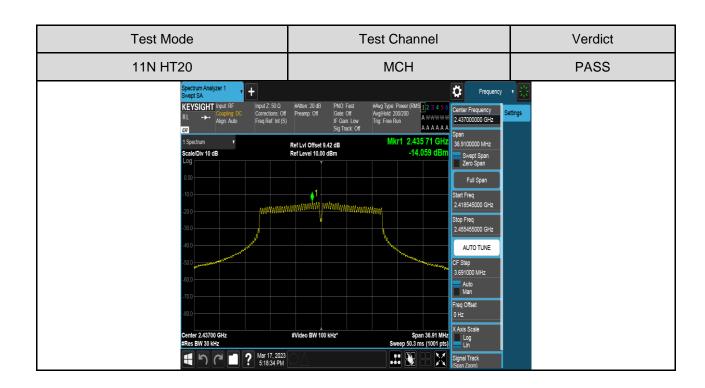
Test Mode Test Channel Verdict 11G **MCH PASS** Ö KEYSIGHT Int AAAAAA Mkr1 2.438 25 G Ref LvI Offset 11.32 dB Ref Level 10.00 dBm -9.874 dBi Start Freq 2.419661000 GHz Stop Freq 2.454339000 GHz AUTO TUNE CF Step 3.467800 MHz Auto Man Freq Offset 0 Hz #Video BW 100 kHz\* Span 34.68 MHz Sweep 47.3 ms (1001 pts) **■ 9 0 17, 2023**4:59:29 PM 

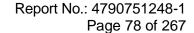




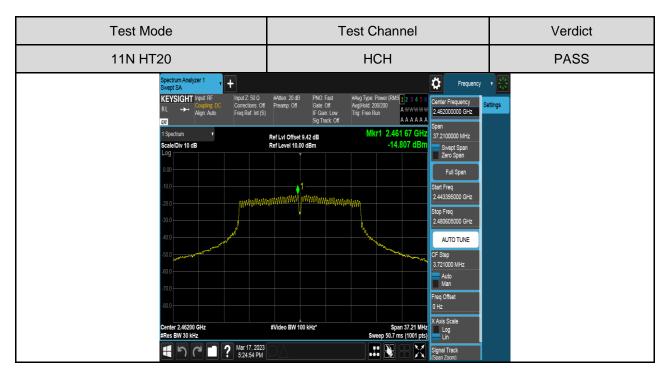


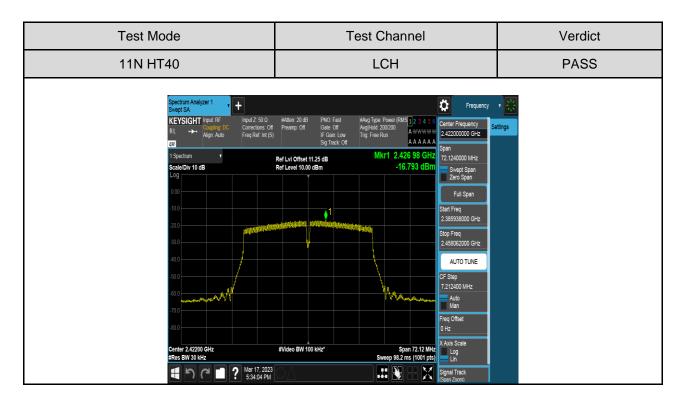
Test Mode Test Channel Verdict 11N HT20 LCH **PASS** Ö KEYSIGHT Input: F 2.412000000 GHz AAAAAA Mkr1 2.410 72 G Ref LvI Offset 9.35 dB Ref Level 10.00 dBm -14.725 dB Start Freq 2.394271000 GHz AUTO TUNE CF Step 3.545800 MHz Auto Man req Offset #Video BW 100 kHz\* Span 35.46 MHz Sweep 48.3 ms (1001 pts) Mar 17, 2023 5:12:19 PM 

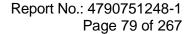




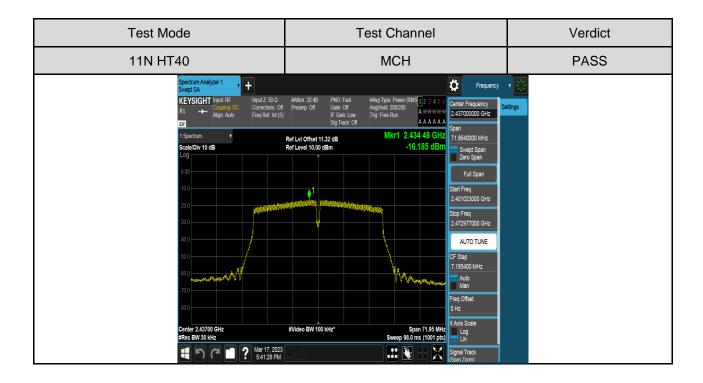


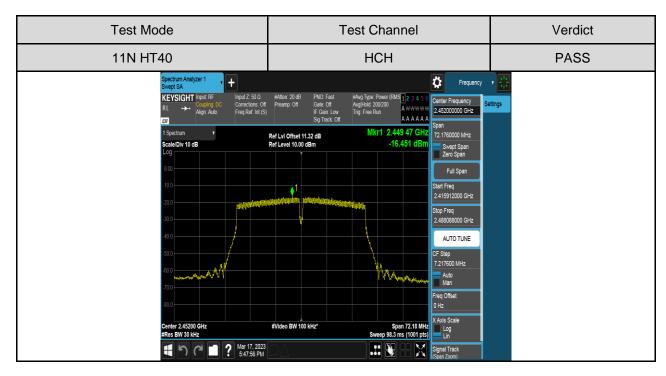




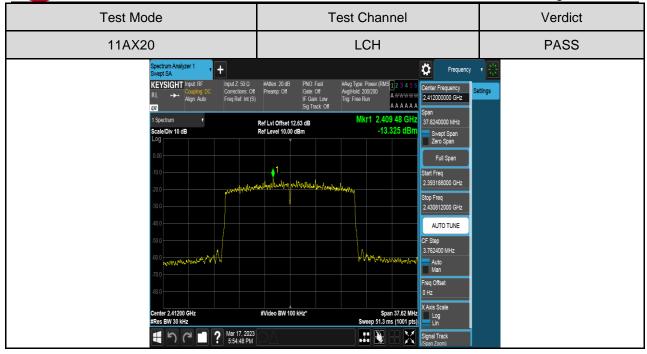


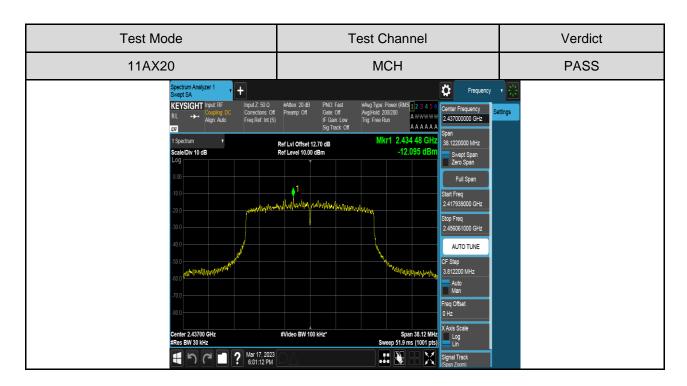


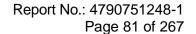




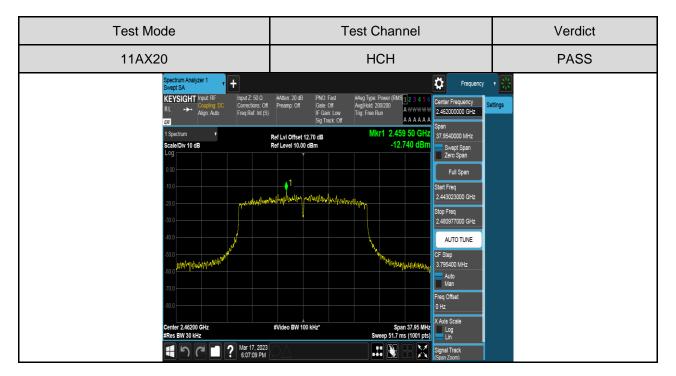
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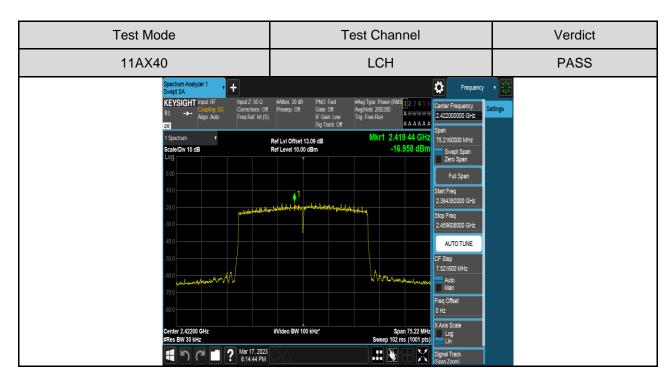


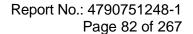






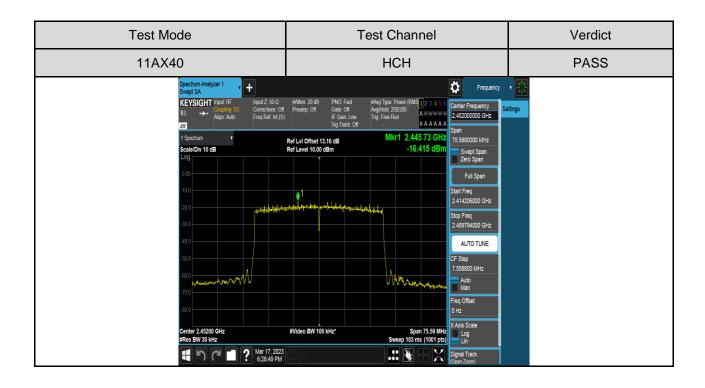








Test Mode Test Channel Verdict 11AX40 **MCH PASS** Ö KEYSIGHT Input: F AAAAAA Mkr1 2.441 96 GI Ref LvI Offset 13.16 dB Ref Level 10.00 dBm -16.353 dB Stop Freq 2.474580000 GHz AUTO TUNE CF Step 7.516000 MHz Auto Man req Offset #Video BW 100 kHz\* Span 75.16 MHz Sweep 102 ms (1001 pts) Mar 17, 2023 6:21:36 PM 





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# 7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

#### **LIMITS**

FCC Part15 (15.247) Subpart C, RSS-247				
Section	Test Item	Limit		
FCC §15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	Conducted Bandedge and Spurious Emissions	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 FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

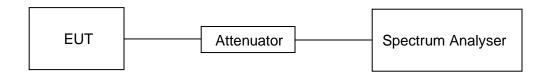
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum PSD level.

ee ine seak marker farietien te determine tre maximum es leven				
Span	Set the center frequency and span to encompass frequency range to be measured			
Detector	Peak			
RBW	100K			
VBW	≥3 x RBW			
measurement points	≥span/RBW			
Trace	Max hold			
Sweep time	Auto couple.			

Use the peak marker function to determine the maximum amplitude level.

### **TEST SETUP**





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## **TEST ENVIRONMENT**

Temperature	24.2℃	Relative Humidity	52.5%
Atmosphere Pressure	102.1kpa	Test Voltage	DC5V

### PART 1: REFERENCE LEVEL MEASUREMENT

### **TEST RESULTS TABLE**

Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
11B	Antenna 1	LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	, unomia i	HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 2	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11G	, anoma i	HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
116		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 2	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11N20 MIMO		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
111120 1/111110		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 2	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11N40 MIMO		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 2	LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11AX20		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
MIMO	Antenna 2	LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	0.1.	LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11AX40		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
1170040		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS

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Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
MIMO	Antenna 2	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS

Remark: For this product, it has five antennas, but only three antennas for WF-M921U RF module, but only two antennas for WIFI function. For this WF-M921U RF module WIFI function, only the 802.11N HT20, 802.11N HT40, 802.11 AX20 and 802.11 AX40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only support SISO mode.

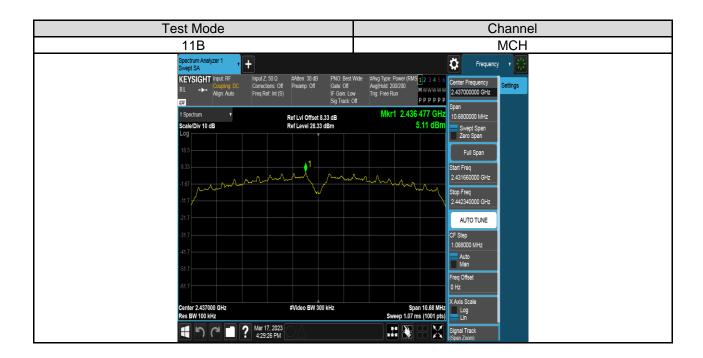


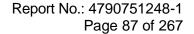
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### **TEST GRAPHS**

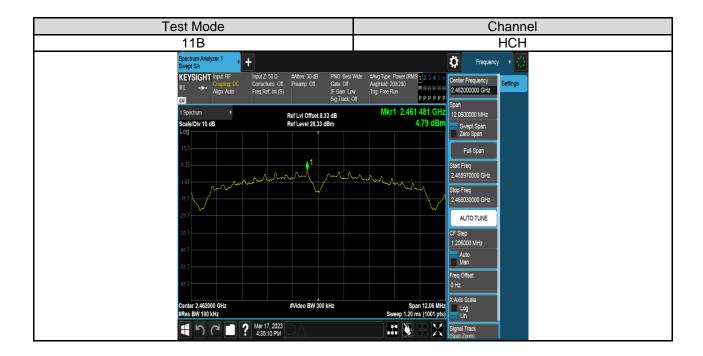
### 1) For Antenna 1 Part:



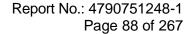








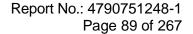








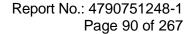








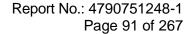












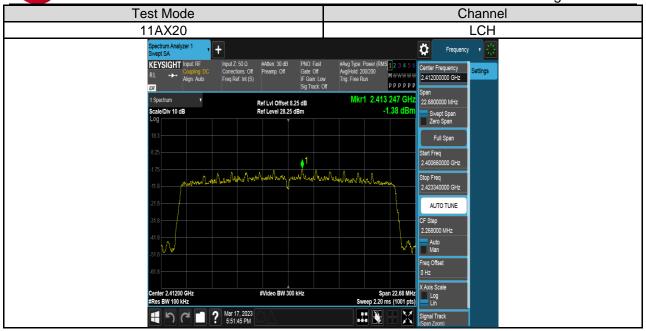




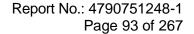




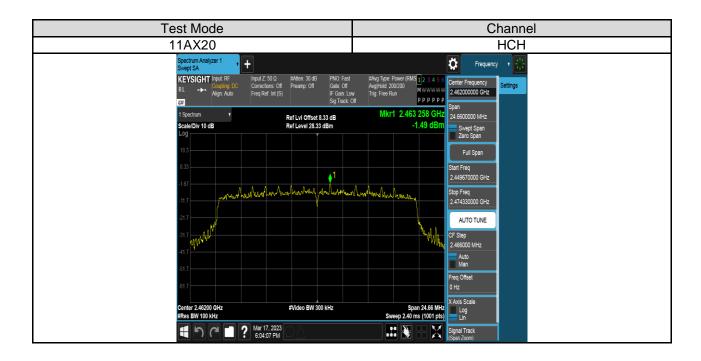
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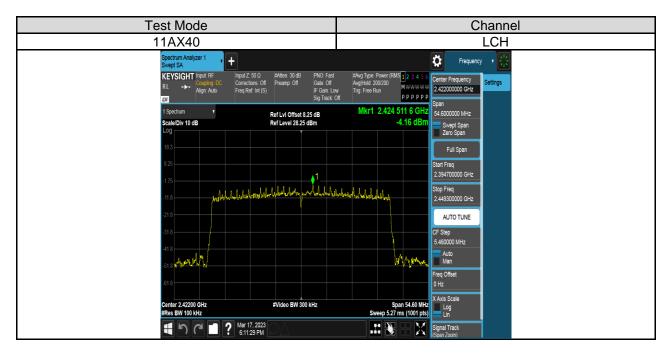


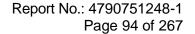




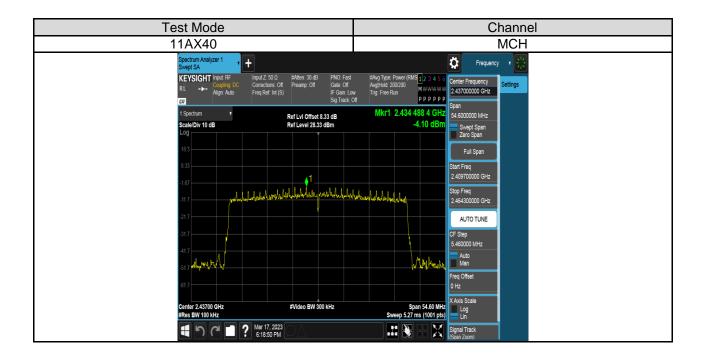


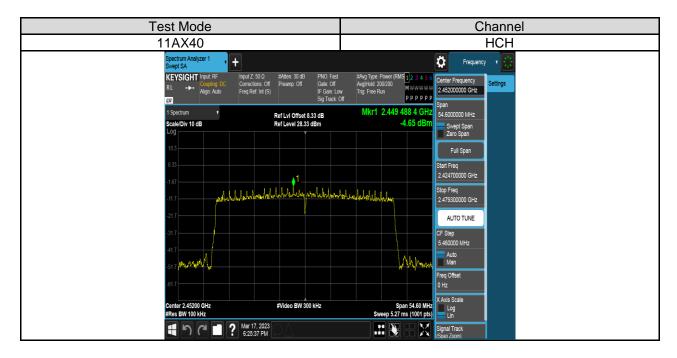


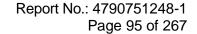














2) For Antenna 2 Part:



