



Test Mode Test Channel Verdict 11AX20 **HCH PASS** Ü Trig: Free Run Center Freq: 2 461996200 Gl
Gate: Off Avg|Hold: 100/100
#IF Gain: Low Radio Std: None KEYSIGHT Input RF Center Frequency 2.461996200 GHz Span 40.000 MHz Ref Lvi Offset 8.73 dB Ref Value 20.00 dBm le/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Span 40 MHz #Sweep Time 100 ms (1001 pts) #Video BW 3.0000 MHz* 12.98 dBm / 19.0 MHz -59.81 dBm/Hz



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7.4. POWER SPECTRAL DENSITY

LIMITS

FCC Part15 (15.247) Subpart C, ISED RSS-247			
Section Test Item Limit Frequency Range (MHz)			
FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

TEST PROCEDURE

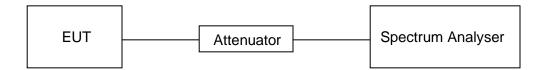
Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

The centre frequency of the channel under test	
Peak	
3 kHz ≤ RBW ≤100 kHz	
≥3 × RBW	
1.5 x DTS bandwidth	
Max hold	
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



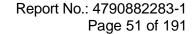


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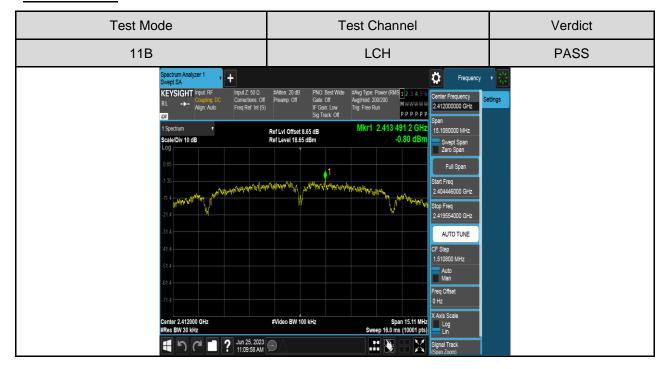
TEST ENVIRONMENT

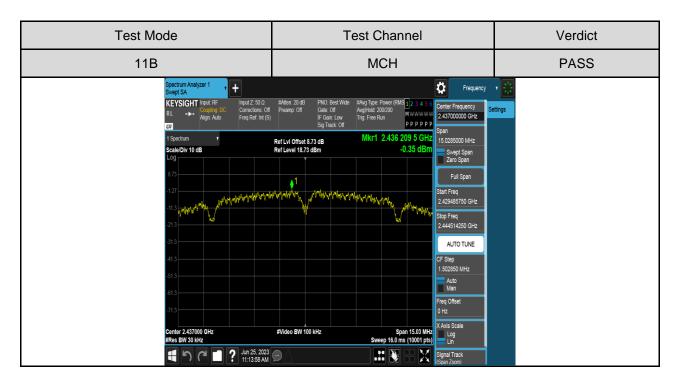
Temperature	25.5℃	Relative Humidity	50.5%
Atmosphere Pressure	102.1kpa	Test Voltage	AC120V/60Hz

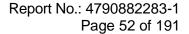
Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30kHz)	Result
	LCH	-0.80	Pass
11B	MCH	-0.35	Pass
	HCH	-1.03	Pass
	LCH	1.65	Pass
11G	MCH	1.93	Pass
	HCH	1.36	Pass
	LCH	1.69	Pass
11N HT20	MCH	1.89	Pass
	HCH	2.11	Pass
	LCH	-1.26	Pass
11N HT40	MCH	-0.64	Pass
	HCH	-1.27	Pass
	LCH	-0.98	Pass
11AX20	MCH	-0.43	Pass
	HCH	-1.09	Pass



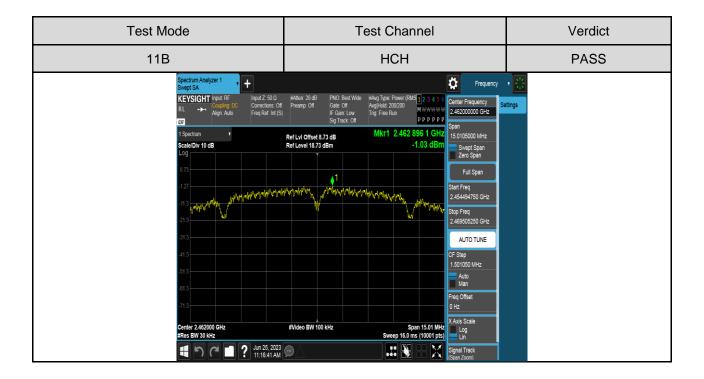


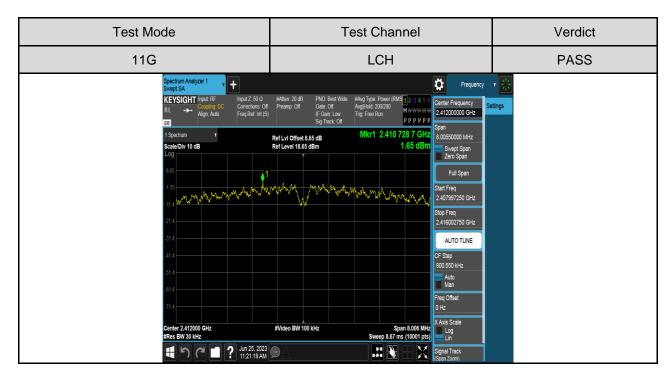


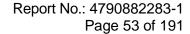




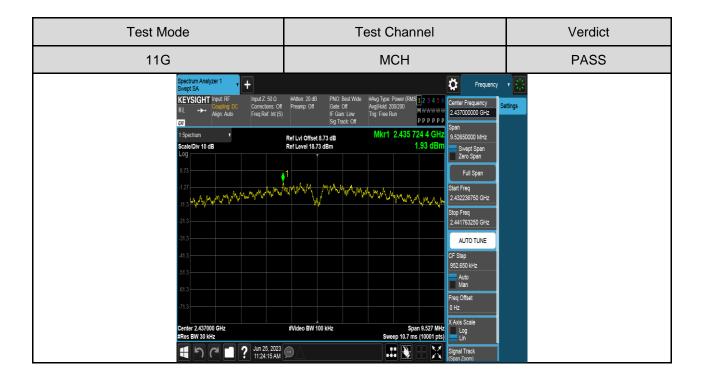


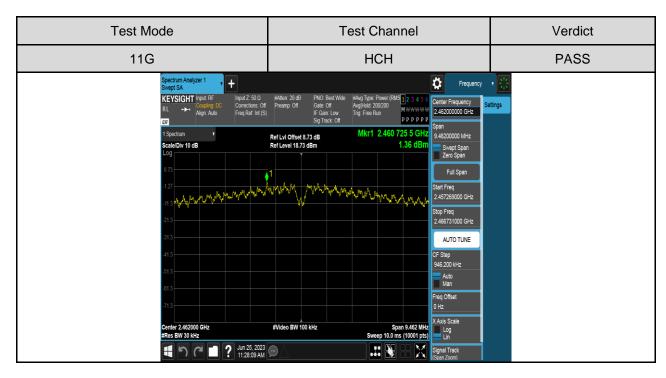


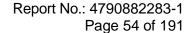




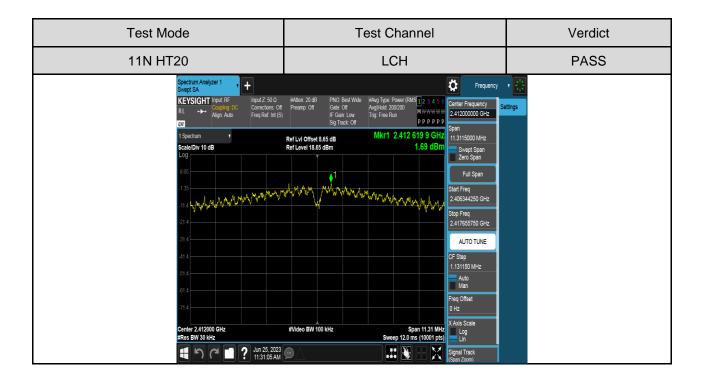


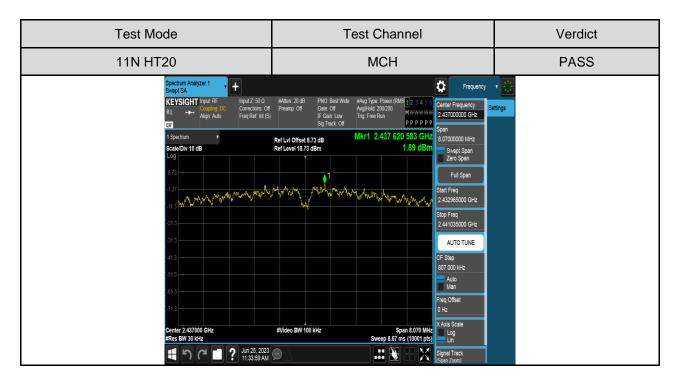


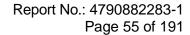




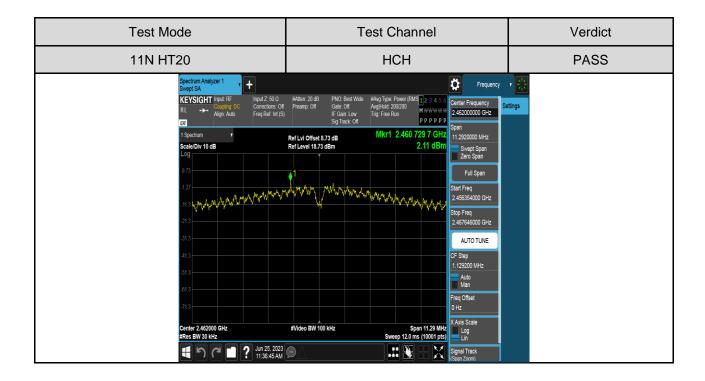


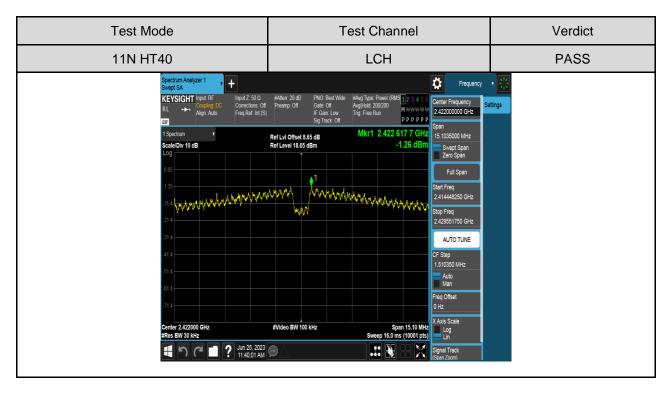


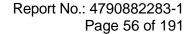




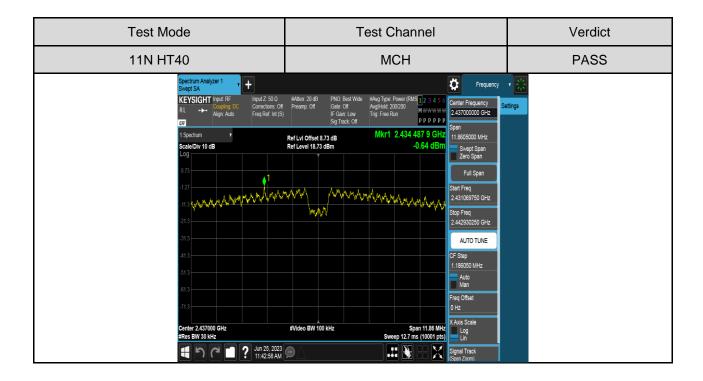


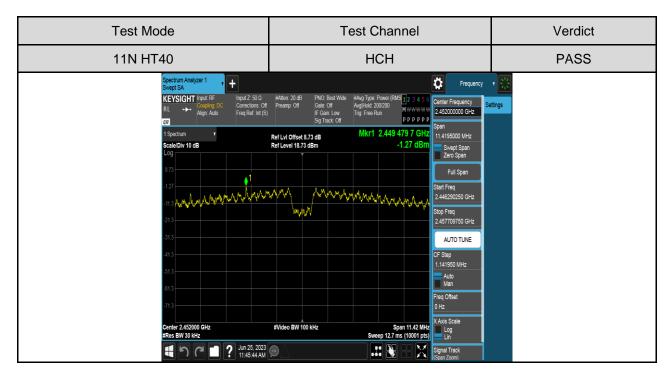


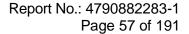




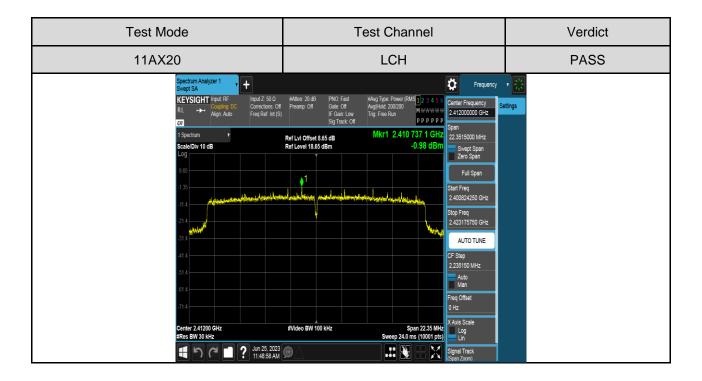


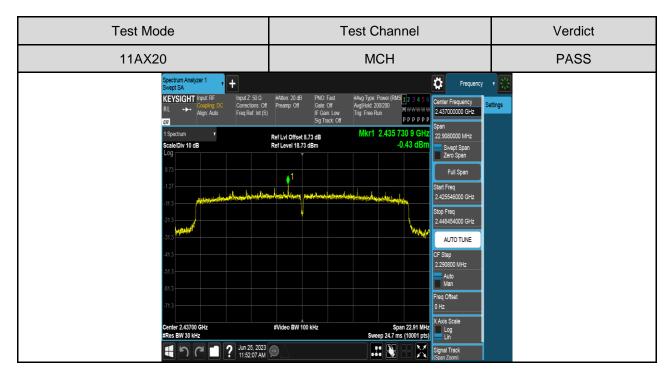


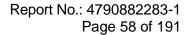














Test Mode Test Channel Verdict 11AX20 **HCH PASS** Ü 2.462000000 GHz PPPPPP Ref Lvl Offset 8.73 dB Ref Level 18.73 dBm -1.09 dB Start Freq 2.448068000 GHz Stop Freq 2.475932000 GHz AUTO TUNE CF Step 2.786400 MHz Auto Man Freq Offset 0 Hz #Video BW 100 kHz Span 27.86 MHz Sweep 30.0 ms (10001 pts) 11:54:54 AM .:: 🐉



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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) Conducted RSS-247 Clause 5.5 Bandedge and RSS-GEN Clause 6.13 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:

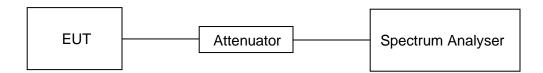
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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

es are peak marker randien to determine are maximan i 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





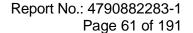
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TEST ENVIRONMENT

Temperature	25.5℃	Relative Humidity	50.5%
Atmosphere Pressure	102.1kpa	Test Voltage	AC120V/60Hz

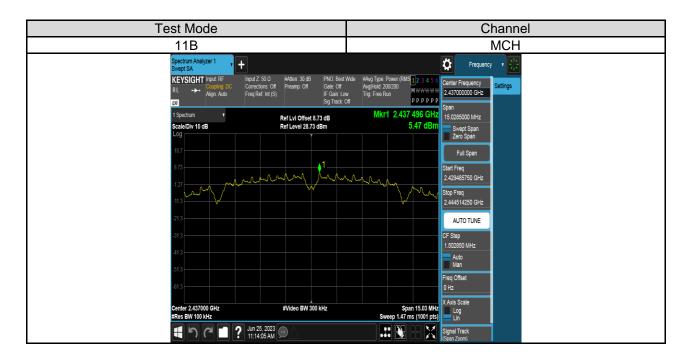
PART 1: REFERENCE LEVEL MEASUREMENT

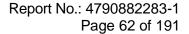
Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11B SISO	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11G SISO	Antenna 1	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
11N HT20	Antenna 1	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
11N HT40	Antenna 1	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
11AX20	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS





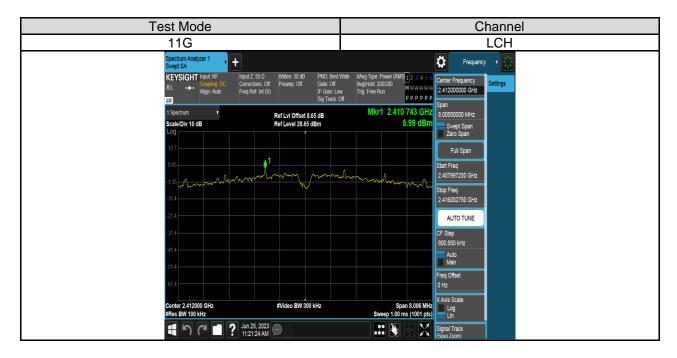


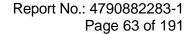








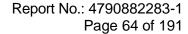






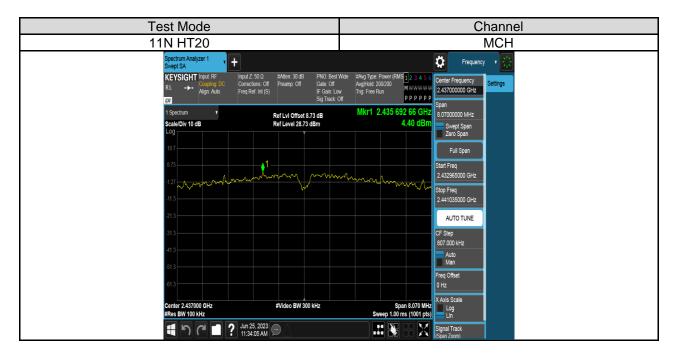


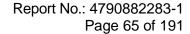








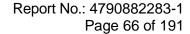






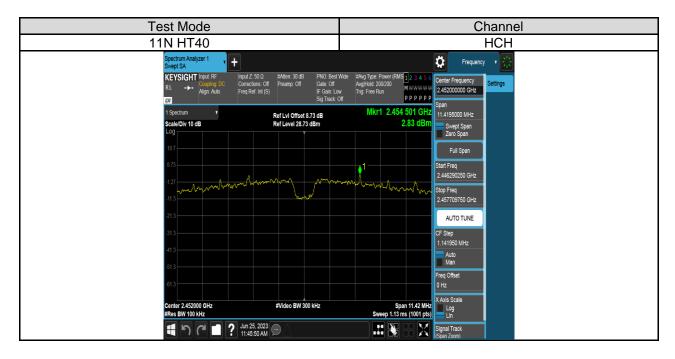


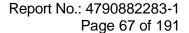




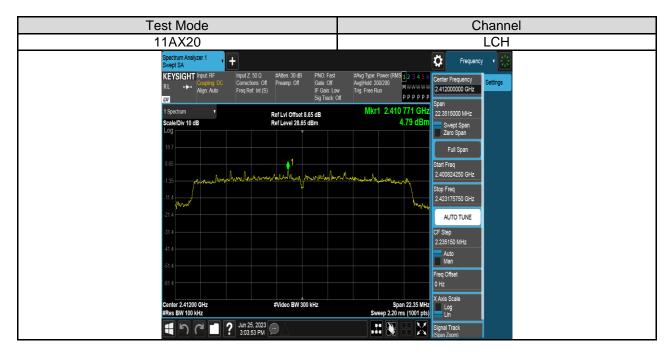


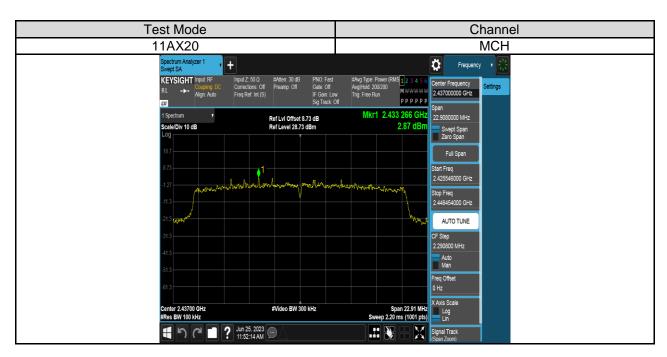


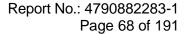














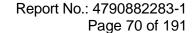




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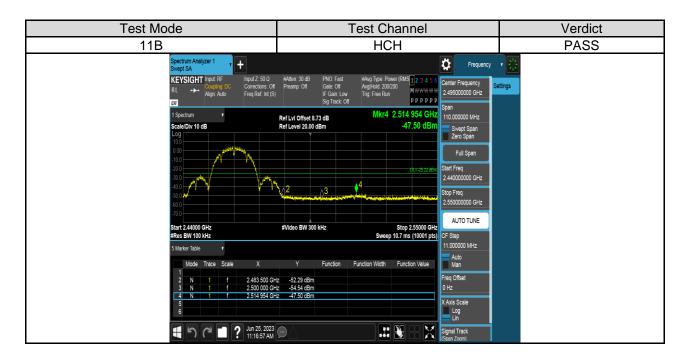
PART 2: CONDUCTED BANDEDGE

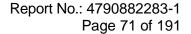
Test Mode	Test Channel	Result	Verdict
11B	LCH	Refer to the Test Graph	PASS
IID	HCH	Refer to the Test Graph	PASS
11G	LCH	Refer to the Test Graph	PASS
l IIG	HCH	Refer to the Test Graph	PASS
11N HT20	LCH	Refer to the Test Graph	PASS
TIN HIZU	HCH	Refer to the Test Graph	PASS
11N HT40	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11AX20	LCH	Refer to the Test Graph	PASS
I IAAZU	HCH	Refer to the Test Graph	PASS







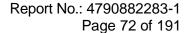






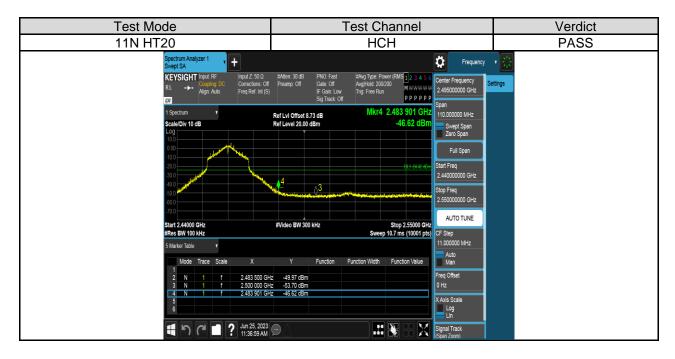


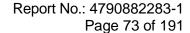




























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PART 3: CONDUCTED SPURIOUS EMISSION

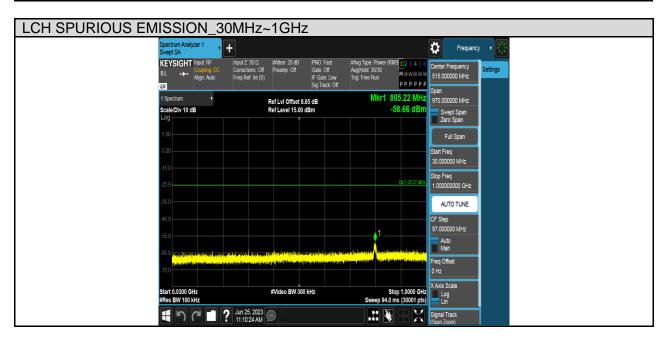
Test Mode	Test Channel	Result	Verdict
	LCH	Refer to the Test Graph	PASS
11B	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11G	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11N HT20	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11N HT40	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11AX20	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS



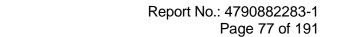
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Test Mode	Channel	Verdict
11B	LCH	PASS

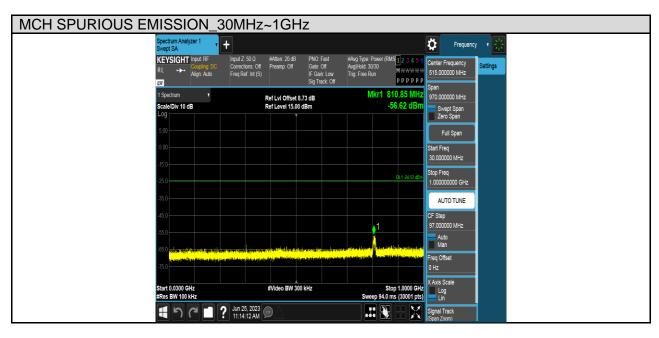








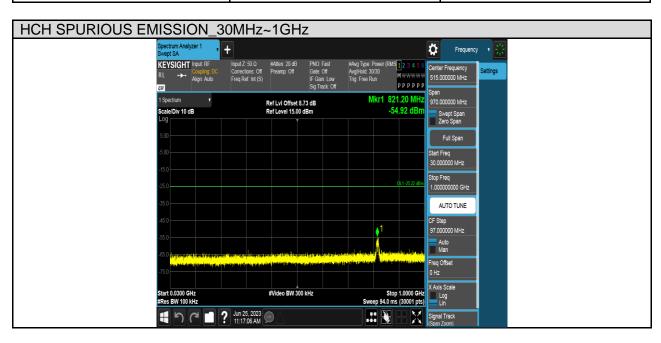
Test Mode	Channel	Verdict
11B	MCH	PASS







Test Mode	Channel	Verdict
11B	HCH	PASS







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Test Mode	Channel	Verdict
11G	LCH	PASS

