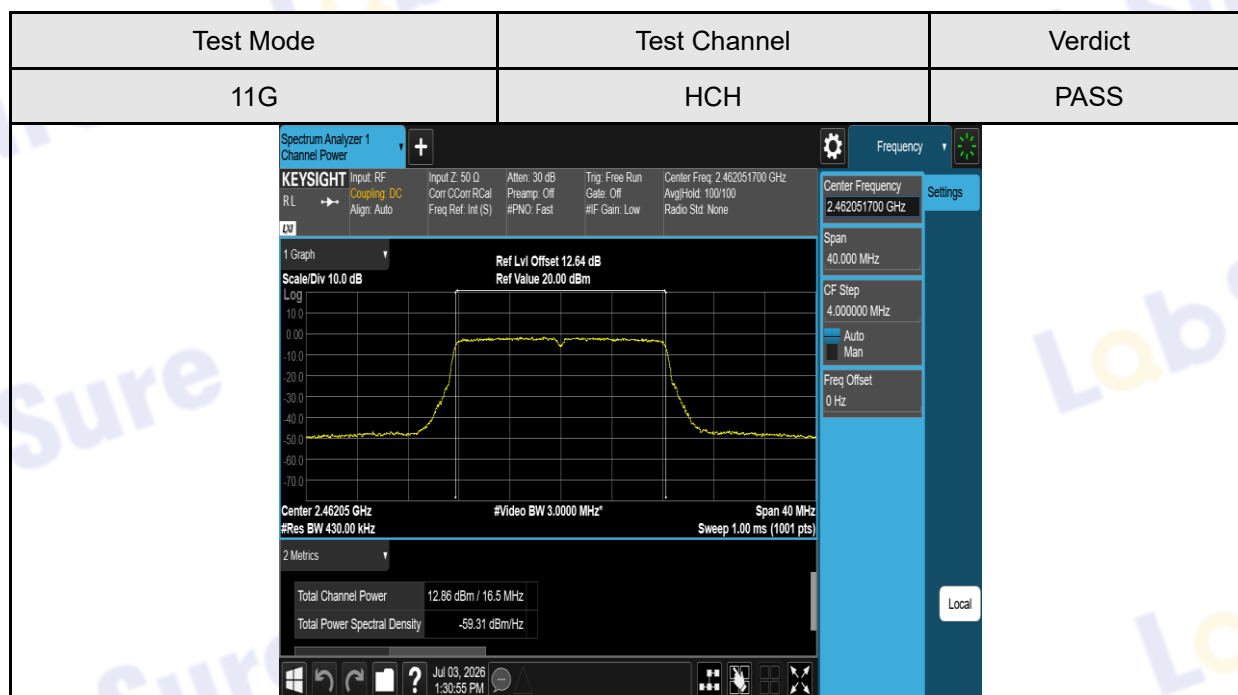
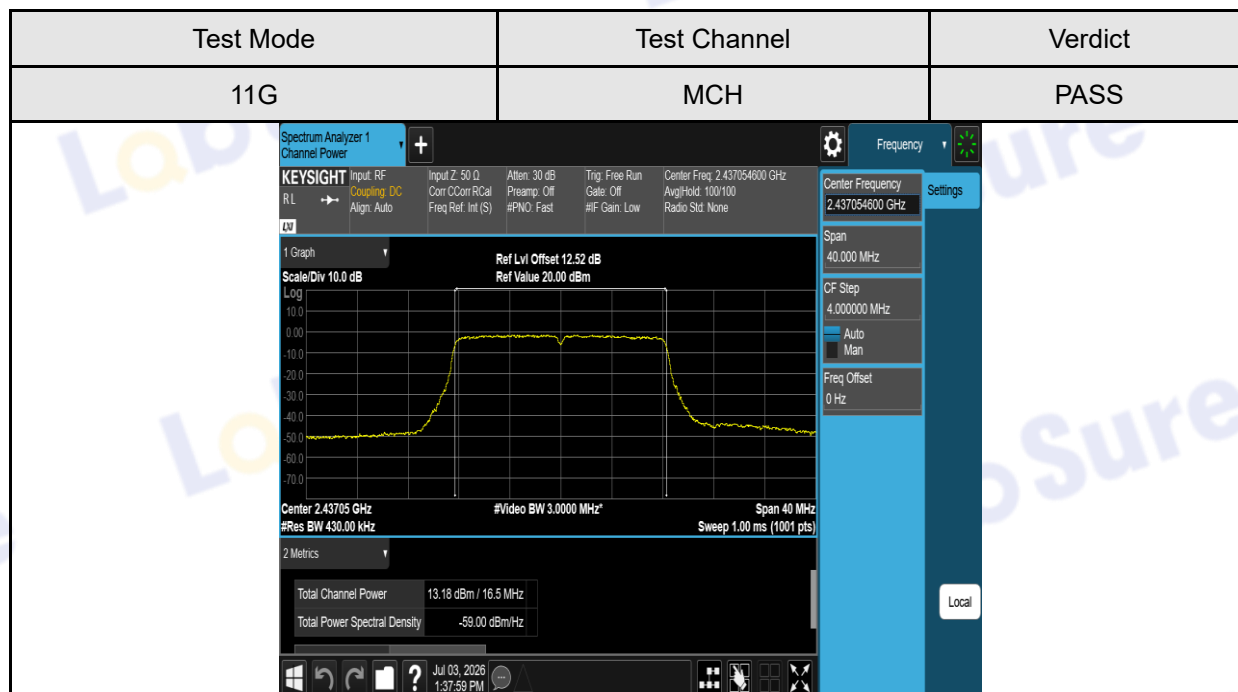
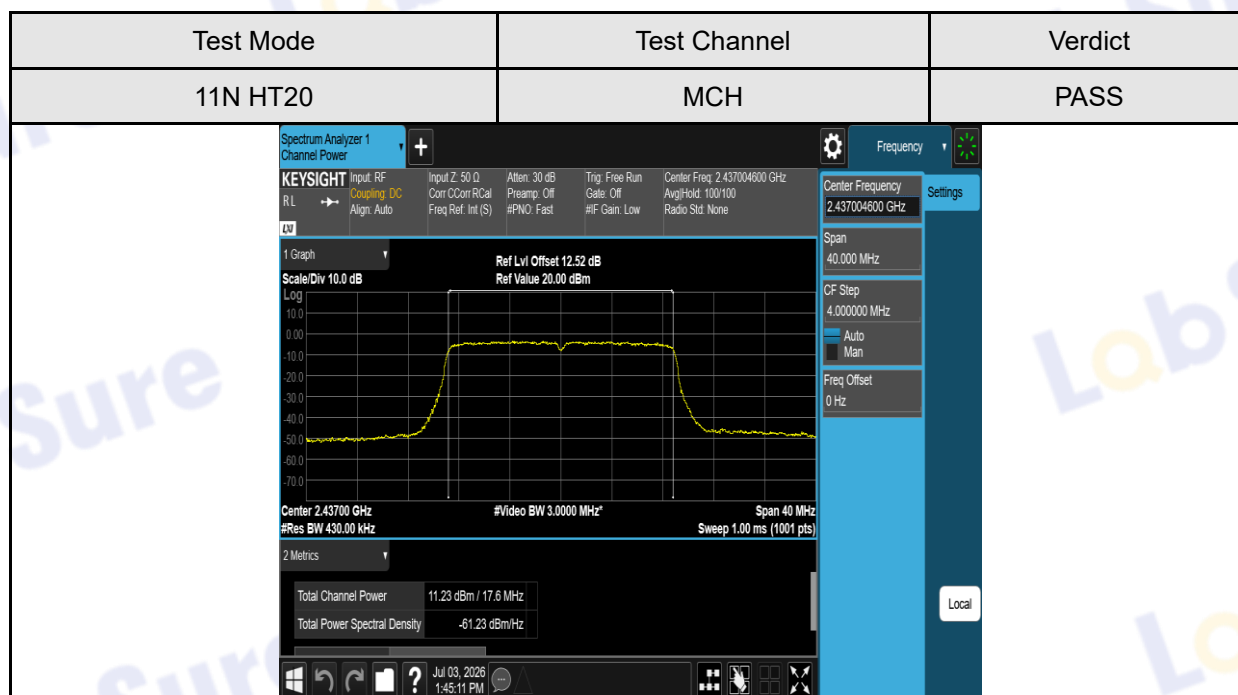
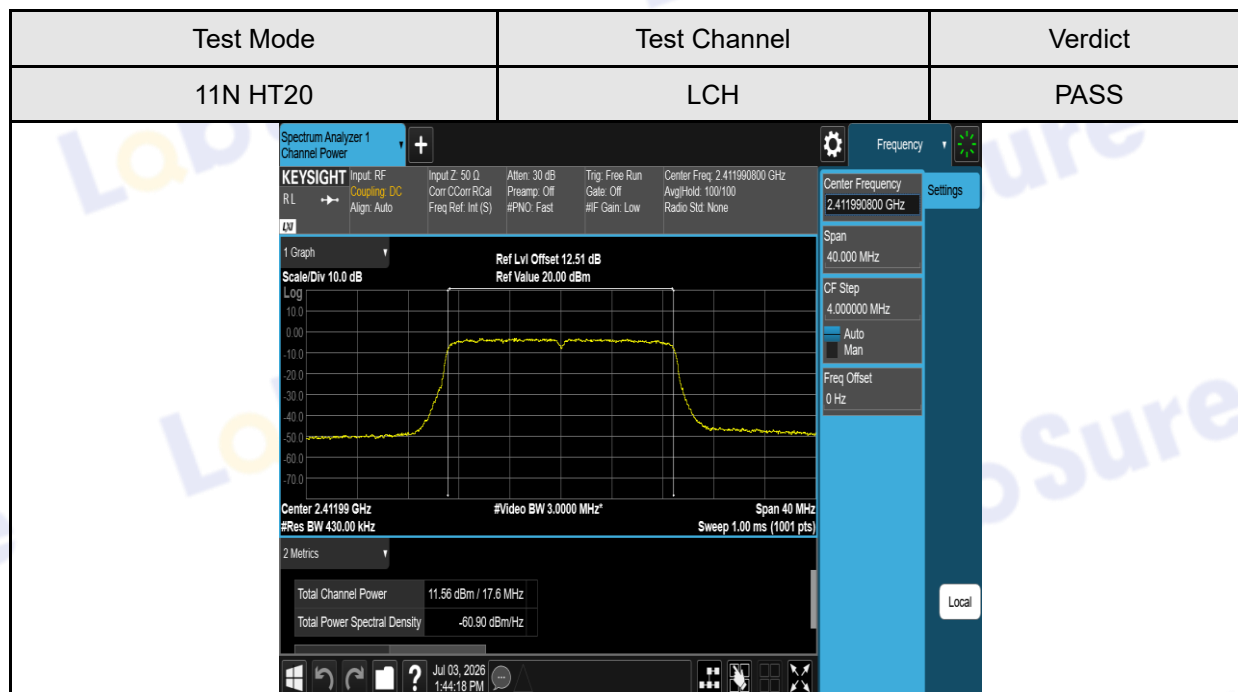
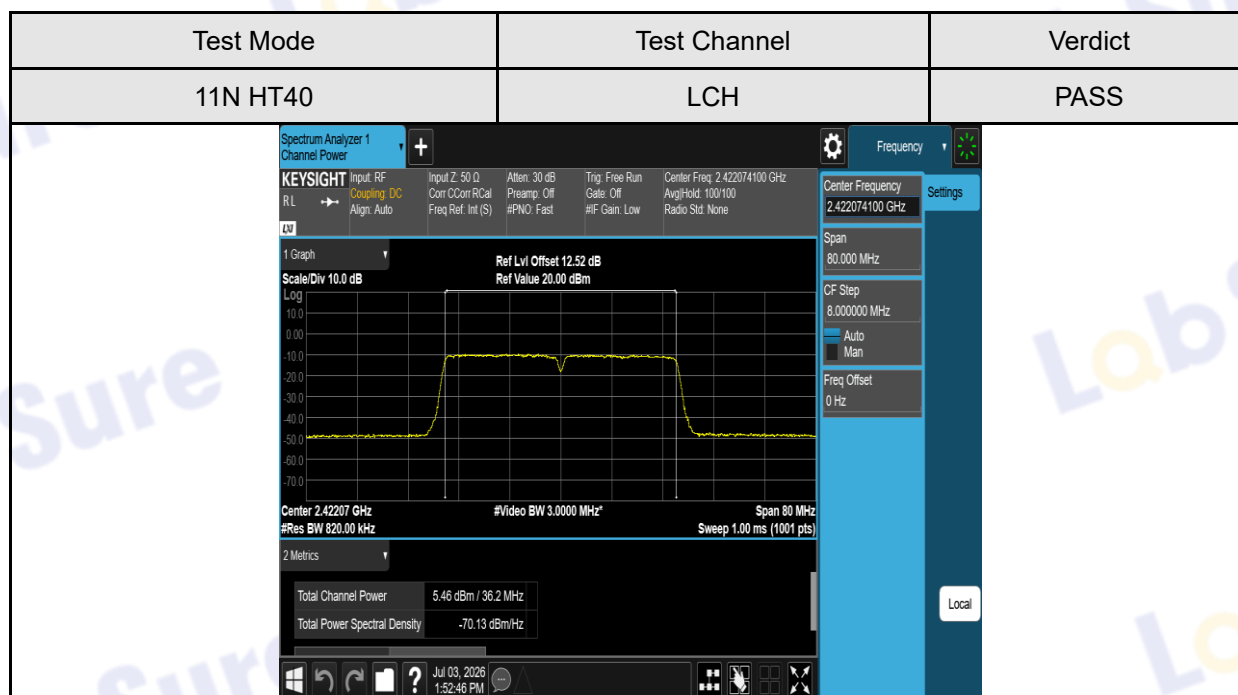
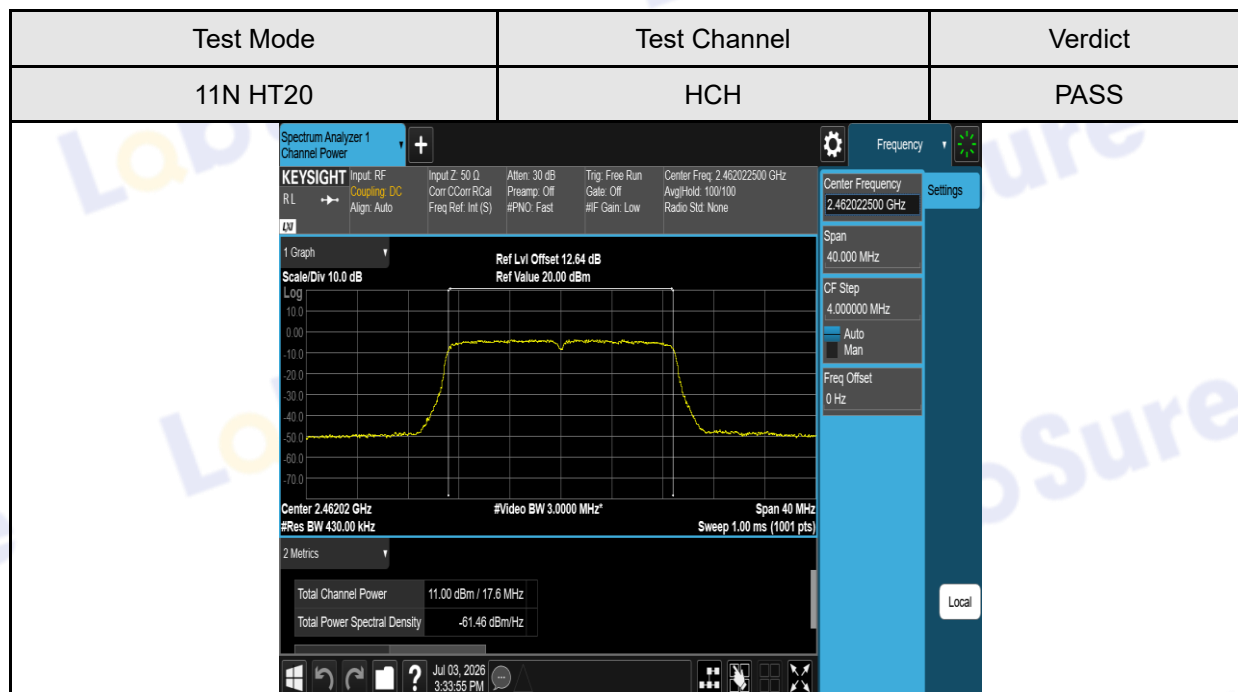
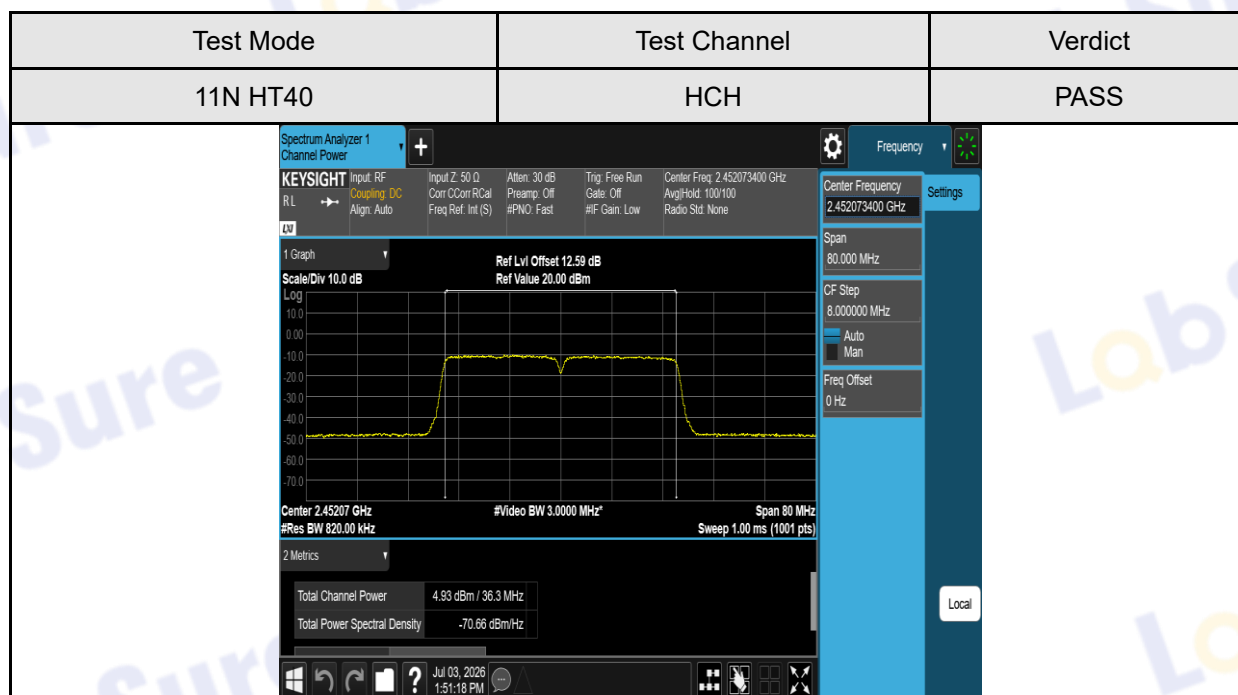
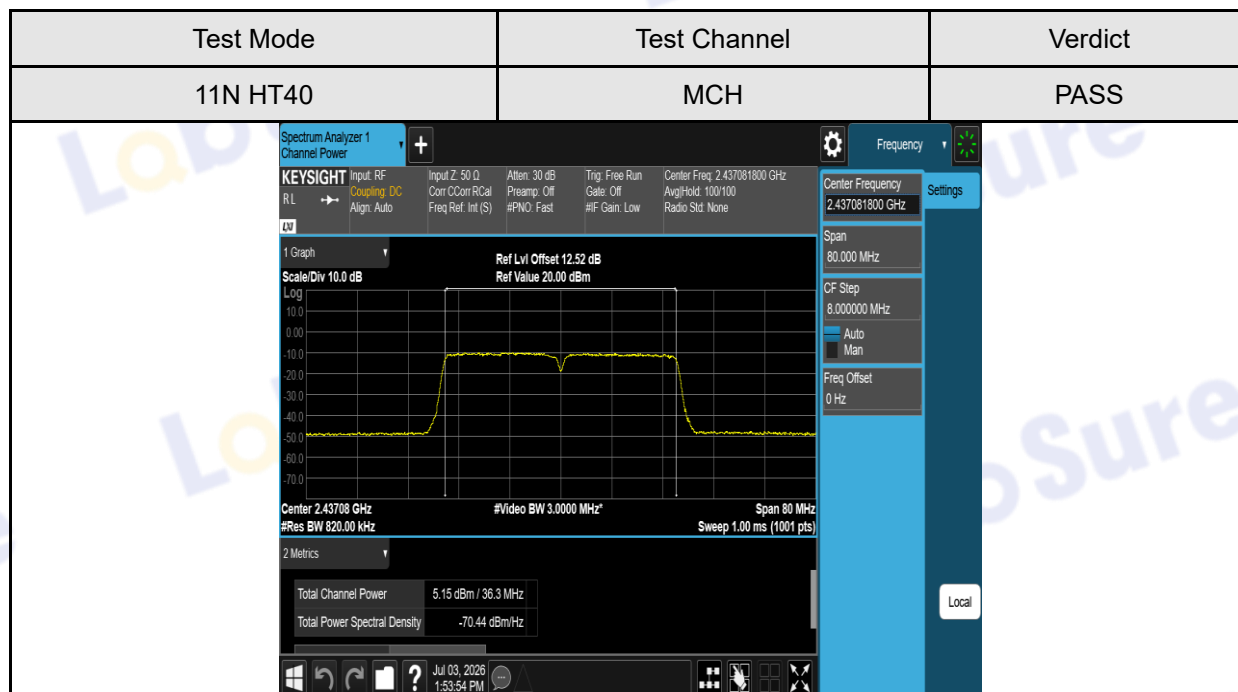
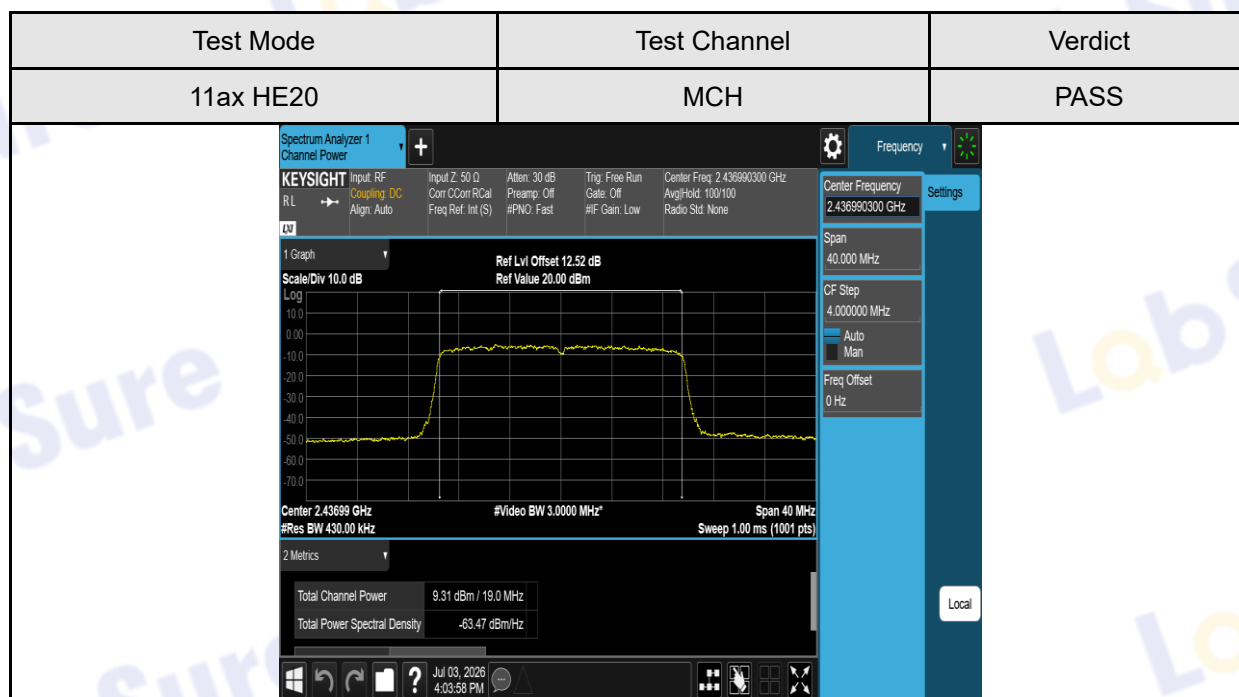
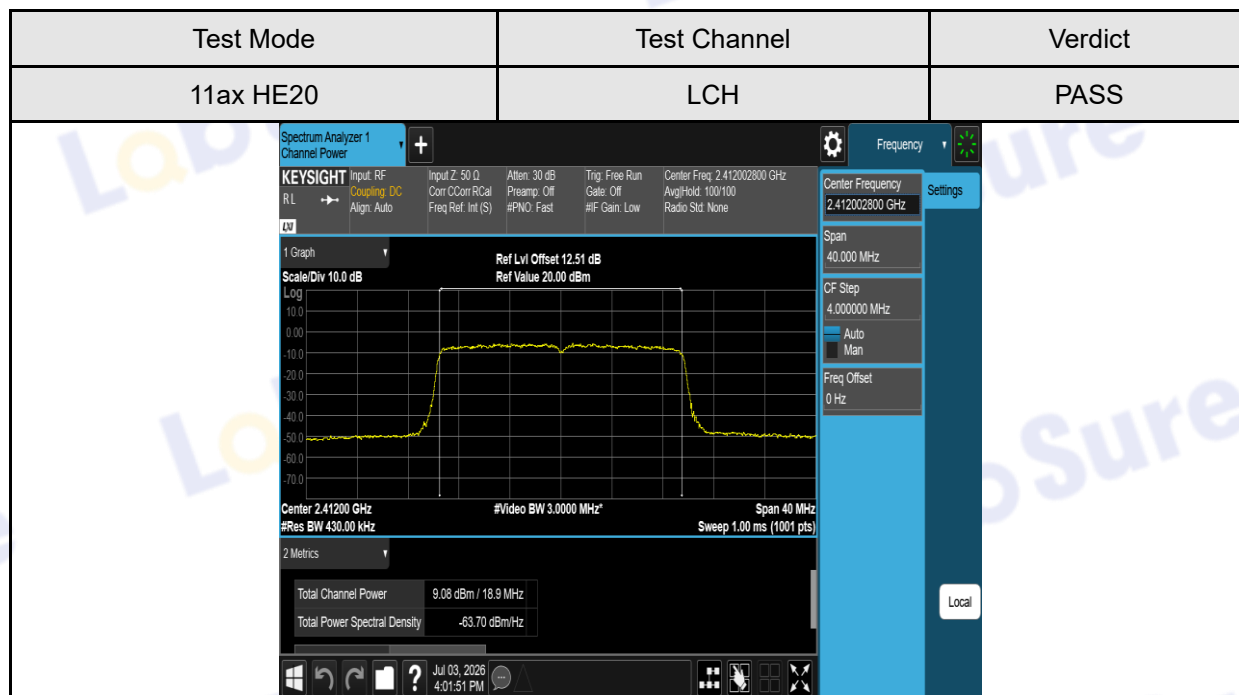












Test Mode	Test Channel	Verdict
11ax HE40	LCH	PASS

Keysight Spectrum Analyzer 1 Channel Power

Input: RF
Input Z: 50 Ω
Att'n: 30 dB
Trig: Free Run
Center Freq: 2.422076800 GHz
Ref Lvl Offset: 12.52 dB
Ref Value: 20.00 dBm

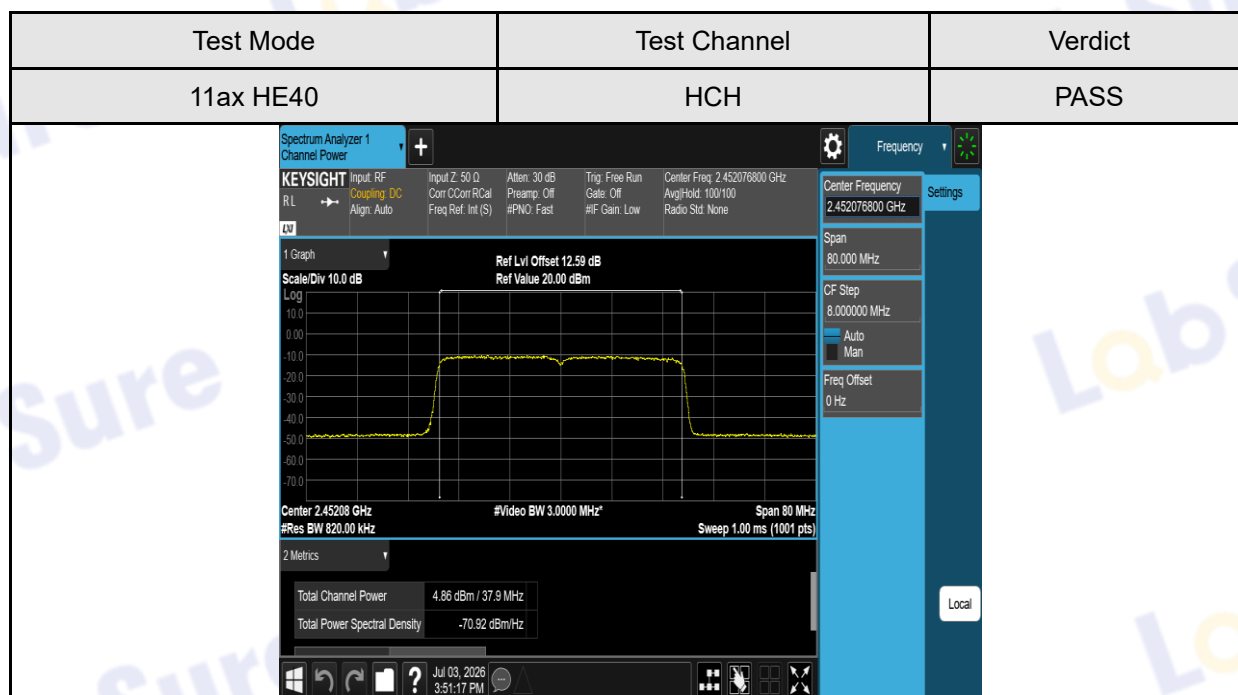
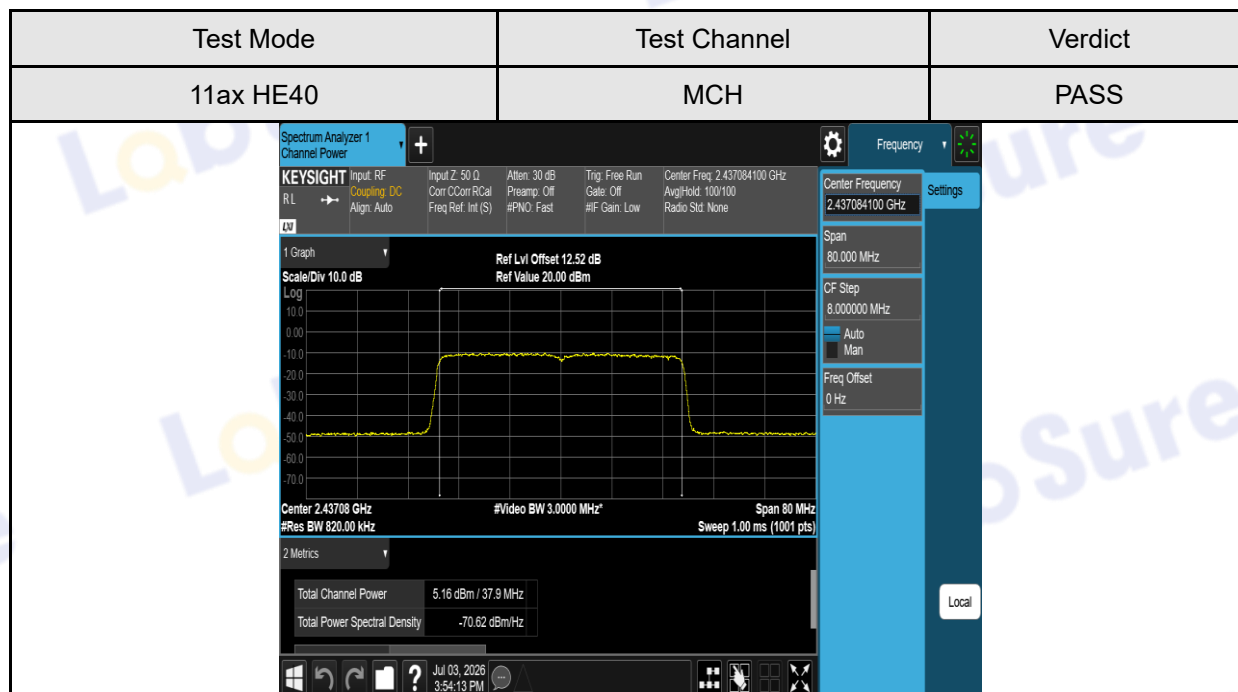
Scale/Div: 10.0 dB
Log
Center: 2.42208 GHz
#Res BW: 820.00 KHz
#Video BW: 3.0000 MHz
Span: 80 MHz
Sweep: 1.00 ms (1001 pts)

2 Metrics

Total Channel Power	5.35 dBm / 37.9 MHz
Total Power Spectral Density	-70.43 dBm/Hz

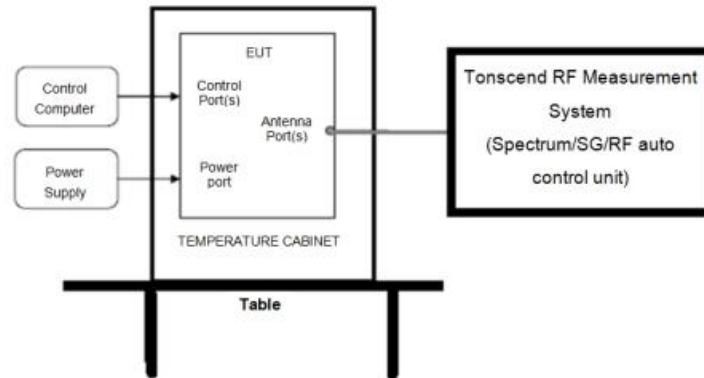
Frequency Settings:
 Center Frequency: 2.422076800 GHz
 Span: 80.000 MHz
 CF Step: 8.000000 MHz
 Auto Man
 Freq Offset: 0 Hz

Local



4.4. Power Spectral Density

4.4.1. Block diagram of test setup



4.4.2. Limits

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

4.4.3. 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	$3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
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.

4.4.4. Test Results

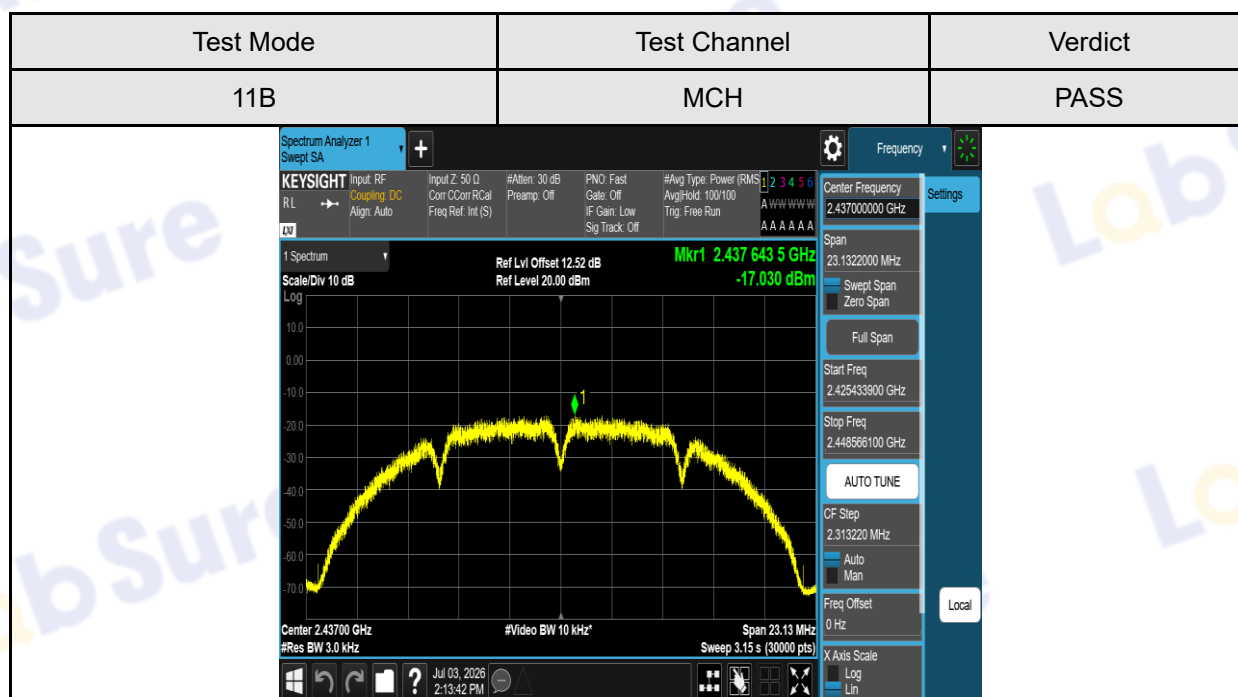
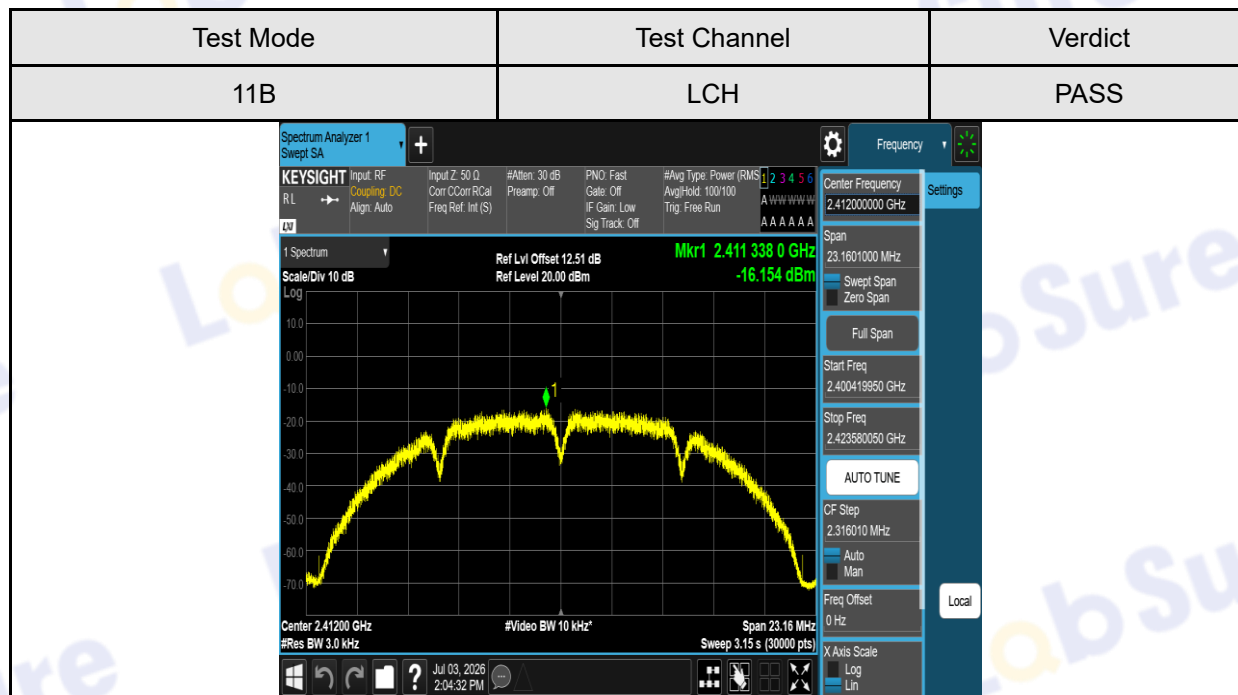
TEST ENVIRONMENT

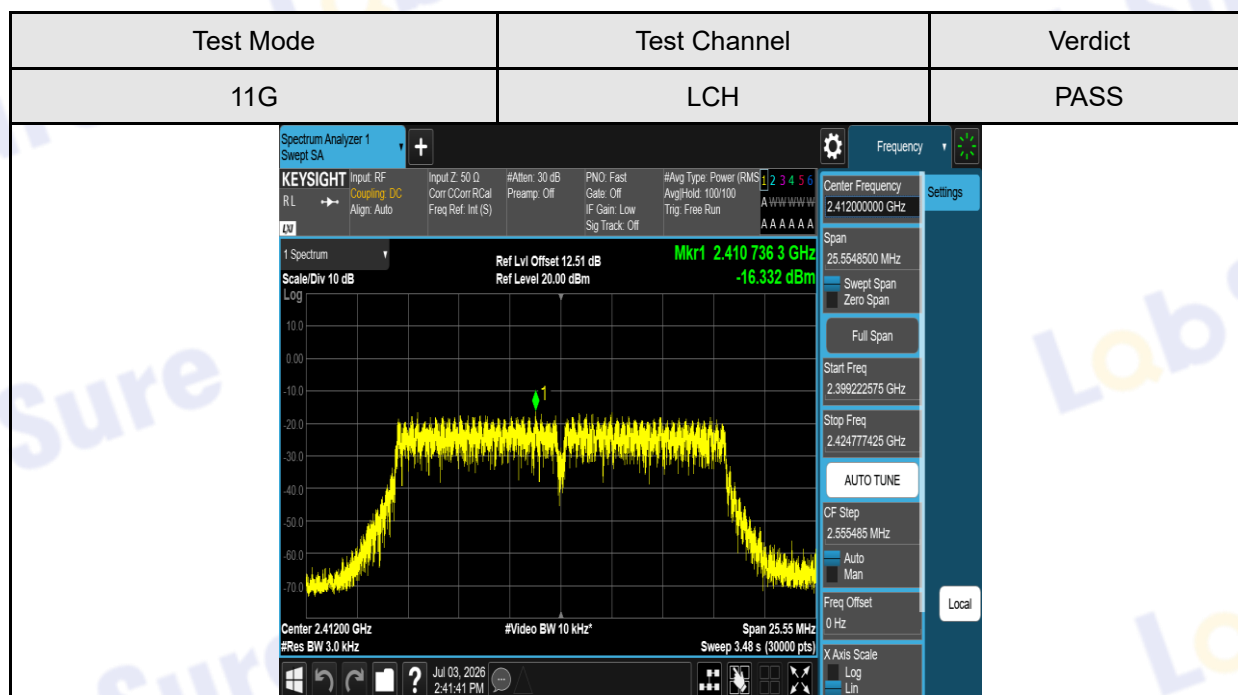
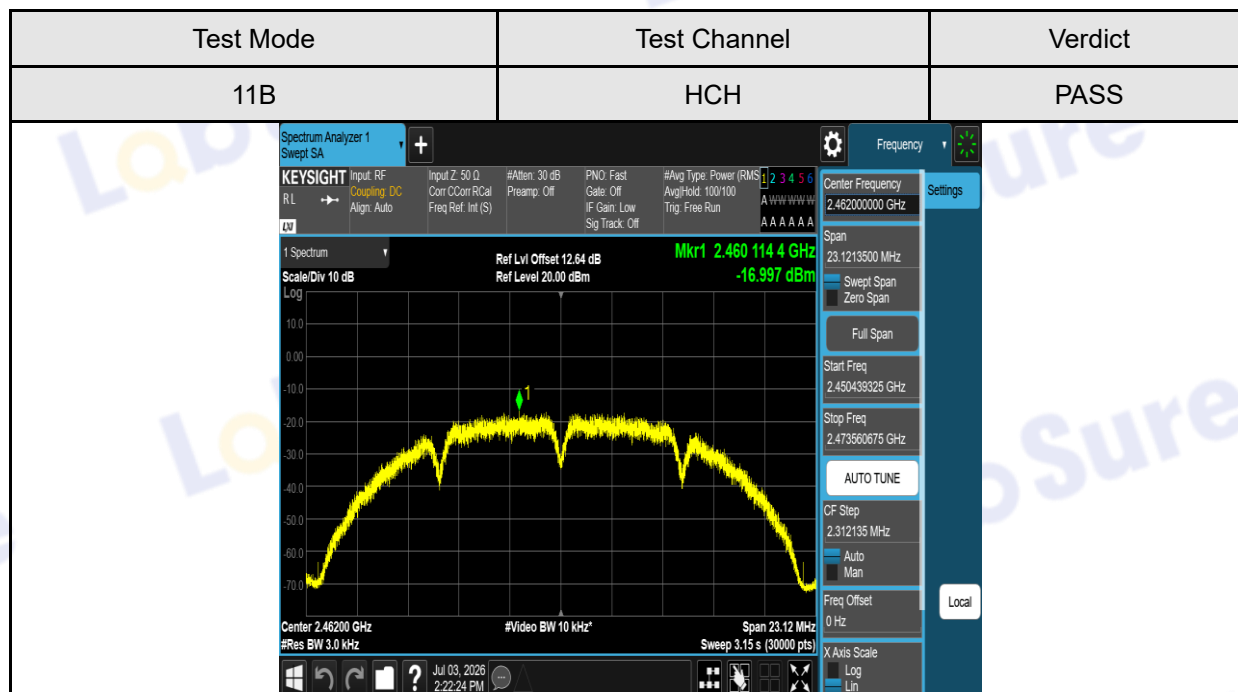
Temperature	24.7	Relative Humidity	51.9%
Atmosphere Pressure	100.9kPa	Test Voltage	DC 5V

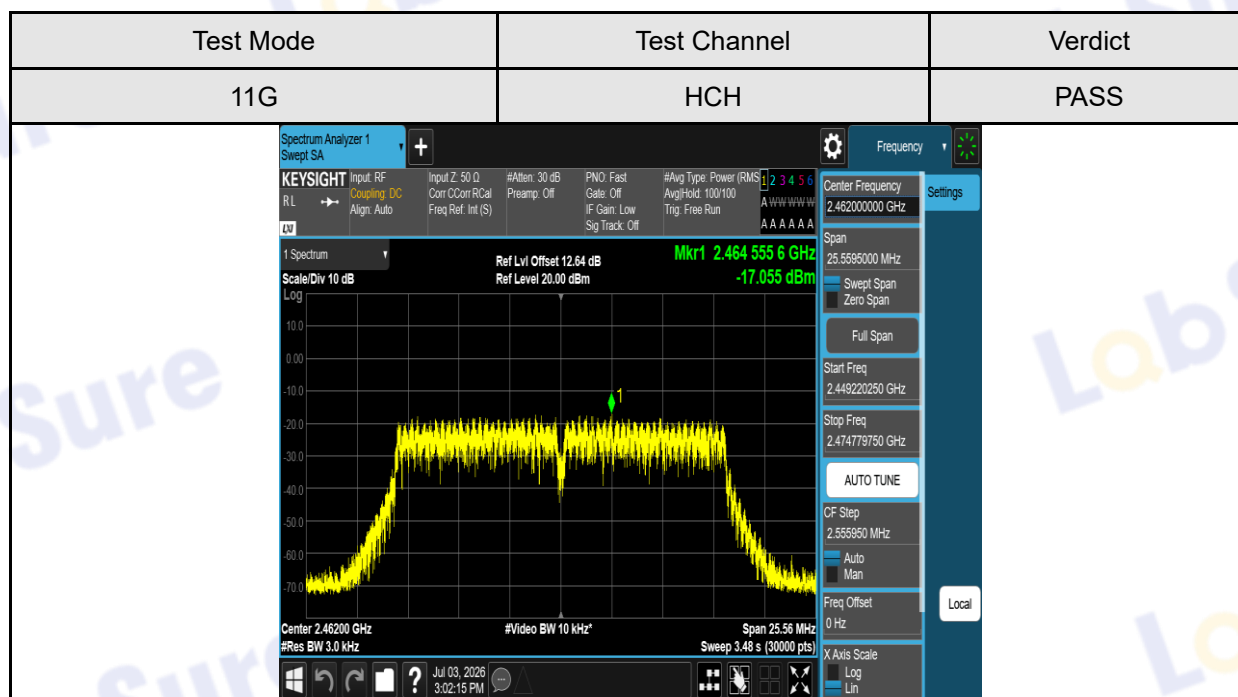
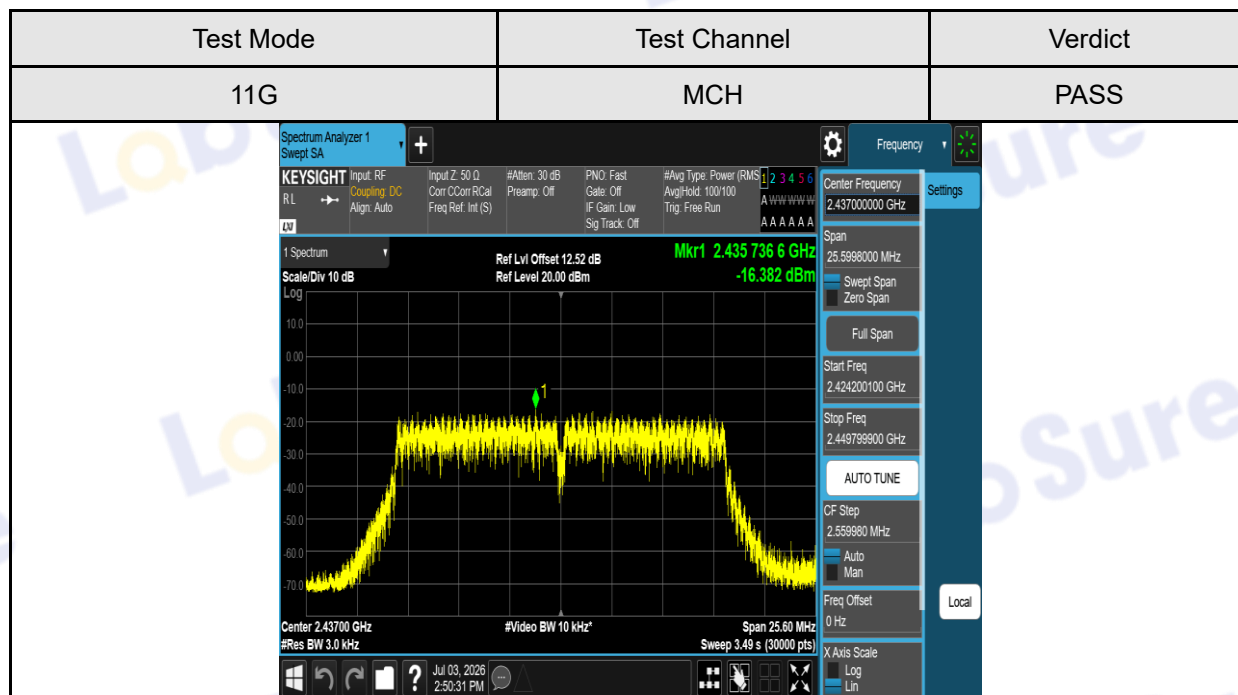
TEST RESULT TABLE

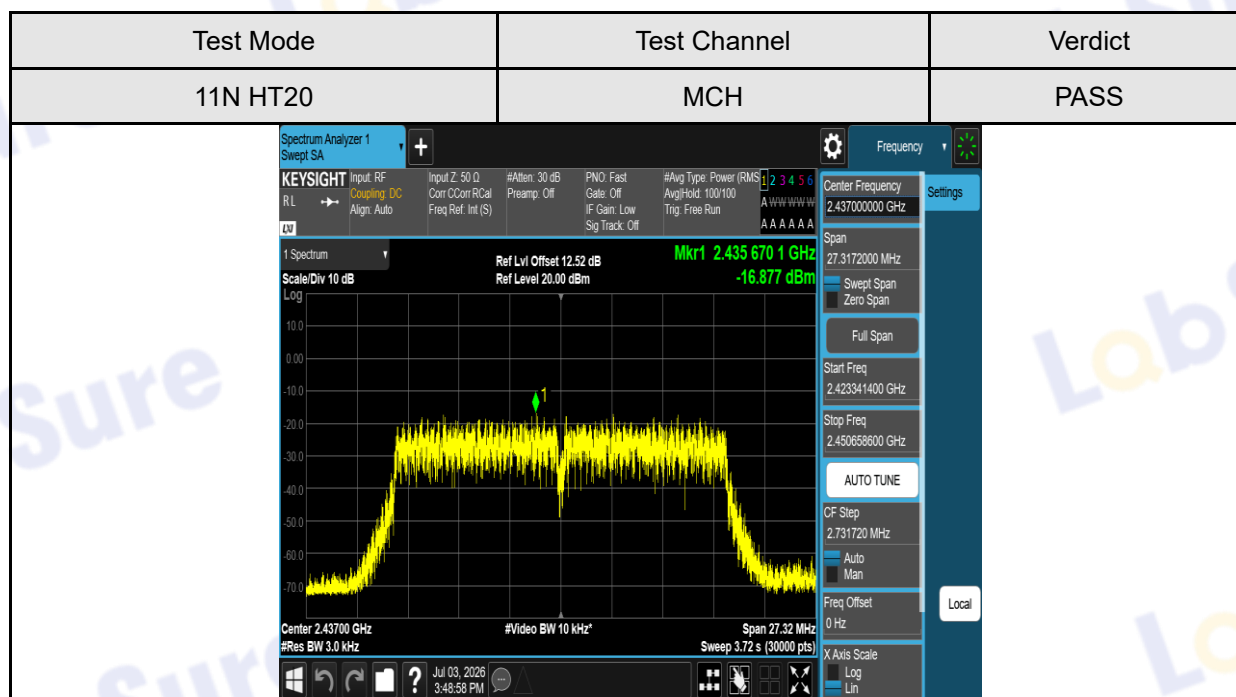
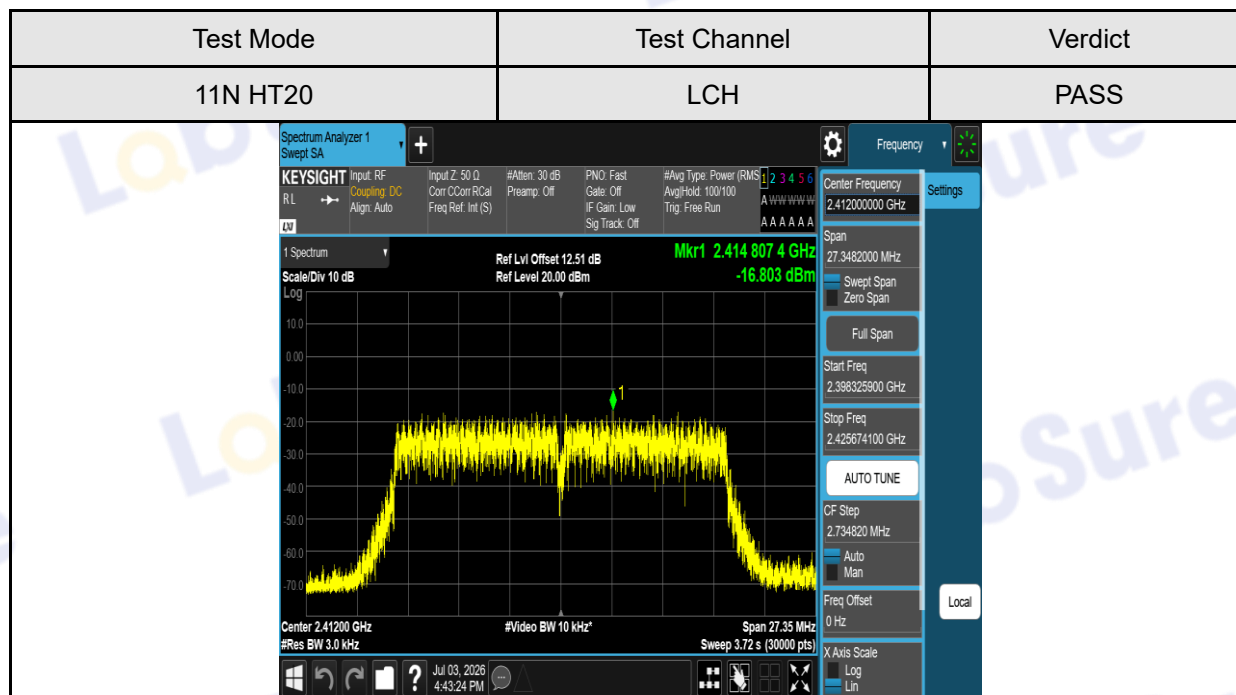
Test Mode	Test Channel	Maximum Peak power spectral density (dBm/3kHz)	Result
11B	LCH	-16.15	Pass
	MCH	-17.03	Pass
	HCH	-17.00	Pass
11G	LCH	-16.20	Pass
	MCH	-16.25	Pass
	HCH	-16.93	Pass
11N HT20	LCH	-16.67	Pass
	MCH	-16.75	Pass
	HCH	-16.93	Pass
11N HT40	LCH	-23.98	Pass
	MCH	-24.00	Pass
	HCH	-24.78	Pass
11ax HE20	LCH	-19.10	Pass
	MCH	-19.35	Pass
	HCH	-19.32	Pass
11ax HE40	LCH	-25.54	Pass
	MCH	-25.03	Pass
	HCH	-24.54	Pass

4.4.5.Original Test Data









Test Mode	Test Channel	Verdict
11N HT40	LCH	PASS

The screenshot displays a Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a yellow signal trace. A marker labeled 'Mkr1' is positioned at 2.416956 GHz with a level of -24.212 dBm. The plot has a scale of 10 dB and a video bandwidth of 10 kHz. The center frequency is 2.42200 GHz. The interface includes various control panels for input, settings, and measurement.

Keysight Spectrum Analyzer 1
Sweep SA

Input: RF Input Z: 50 Ω Corr: O-Cal Freq Ref: Int (S) #Atten: 30 dB Preamp: Off PWD: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg Hold: 100/100 Trig: Free Run

Center Frequency: 2.42200000 GHz

Span: 56.1782000 MHz

Start Freq: 2.393910900 GHz

Stop Freq: 2.450088100 GHz

Center Freq: 2.4169560 GHz

Level: -24.212 dBm

Scale/Div: 10 dB

Ref Lvl Offset: 12.52 dB

Ref Level: 20.00 dBm

Center: 2.42200 GHz

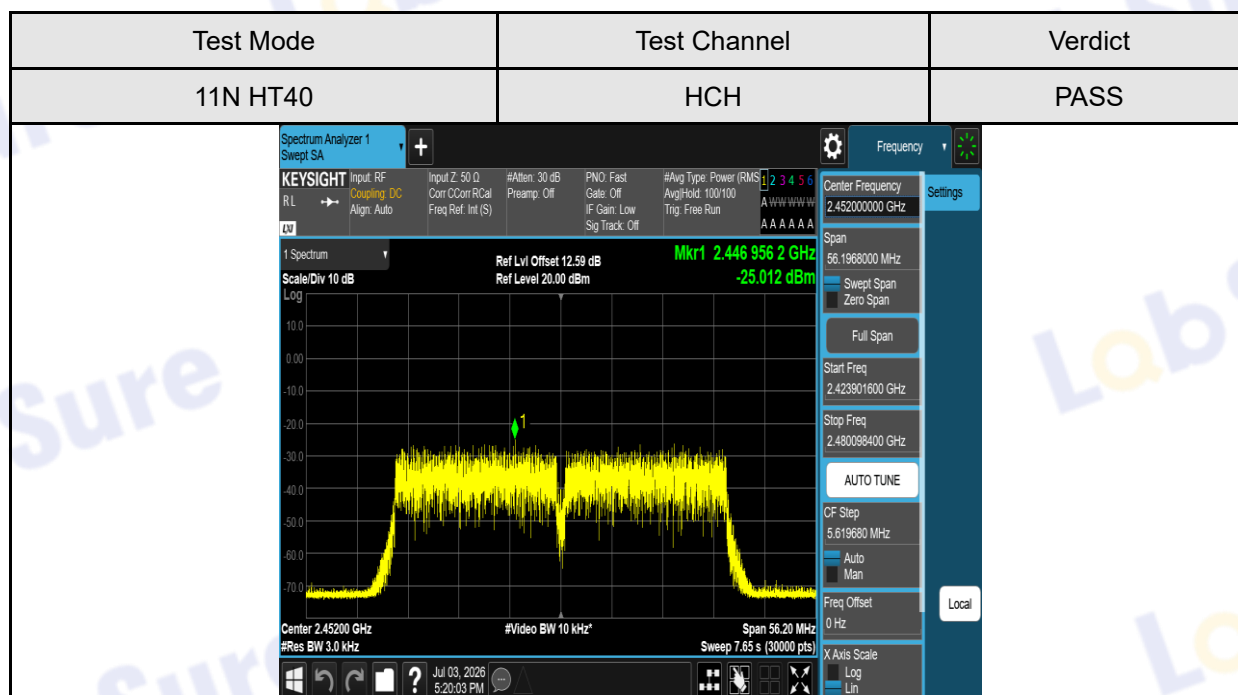
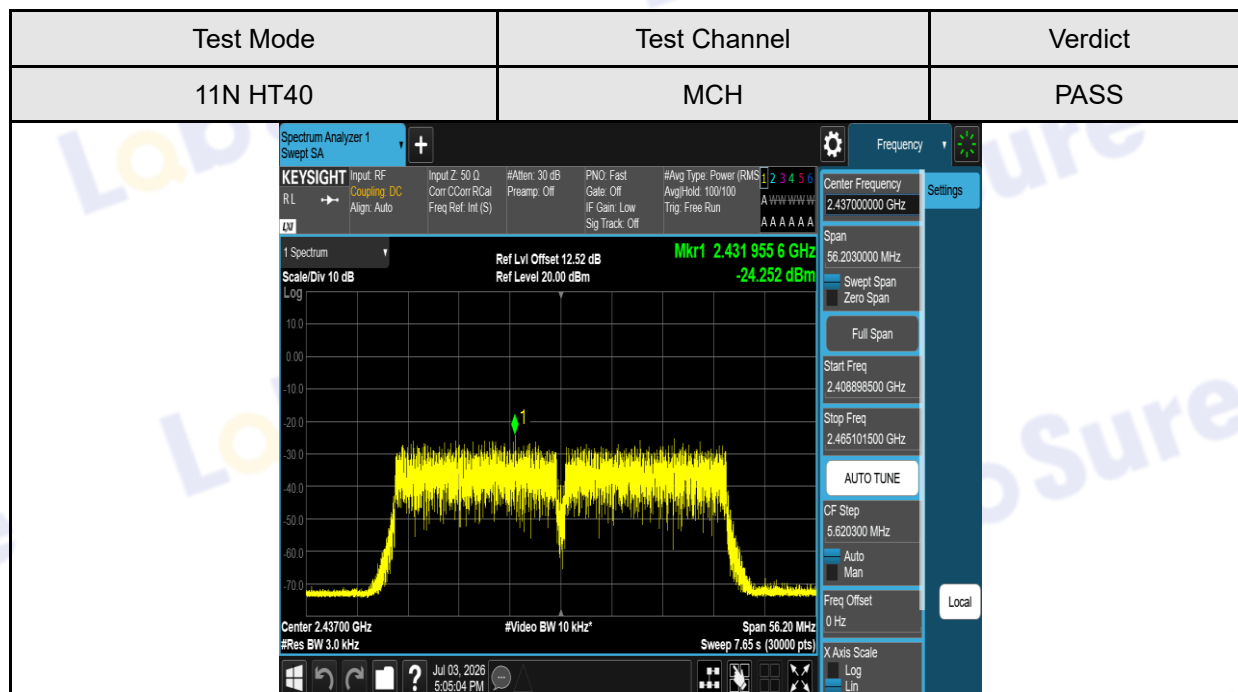
#Res BW: 3.0 kHz

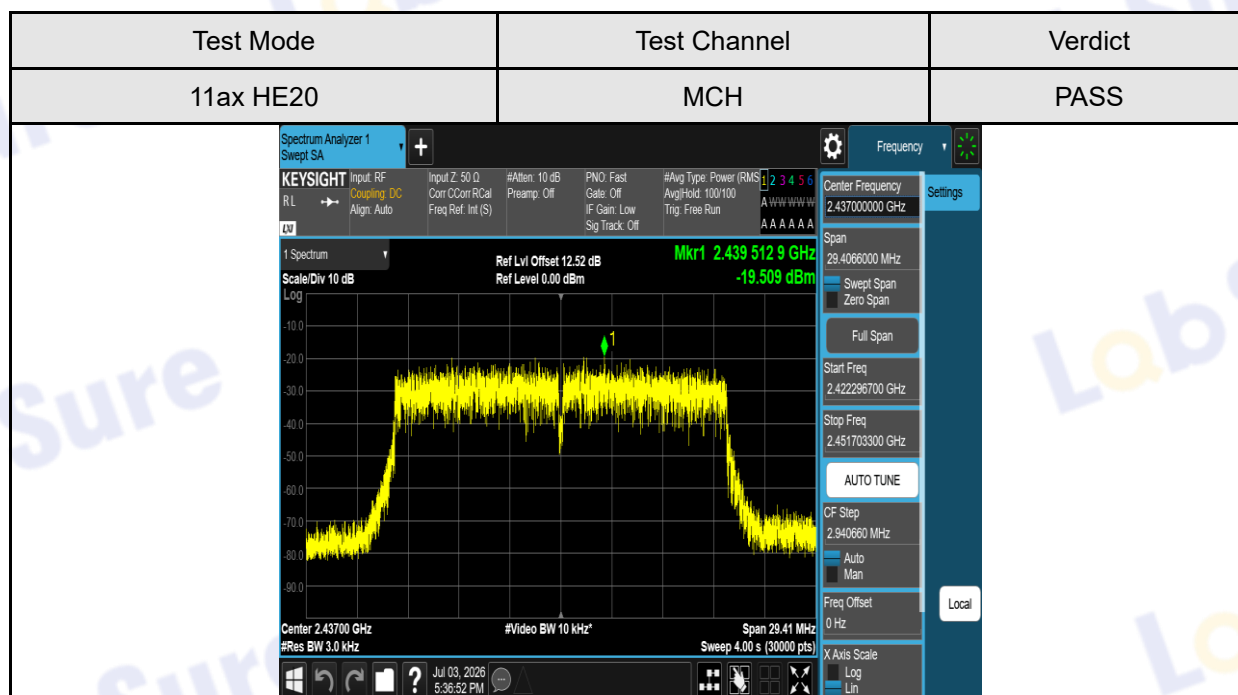
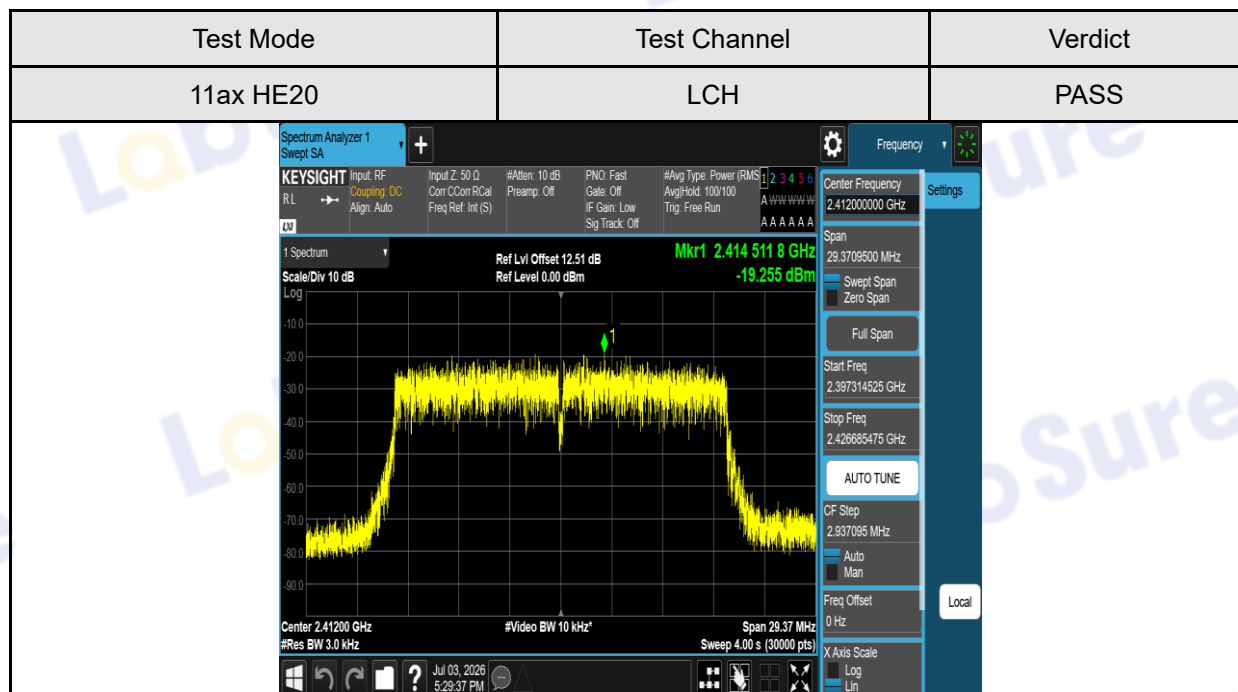
#Video BW: 10 kHz

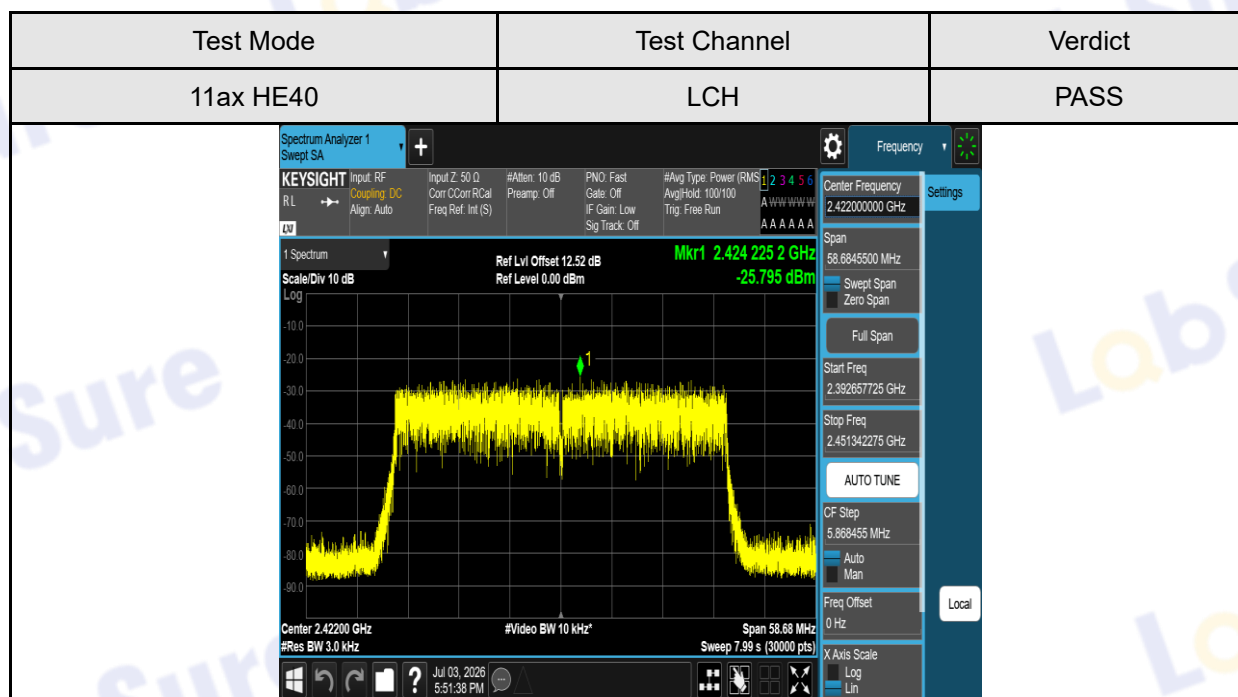
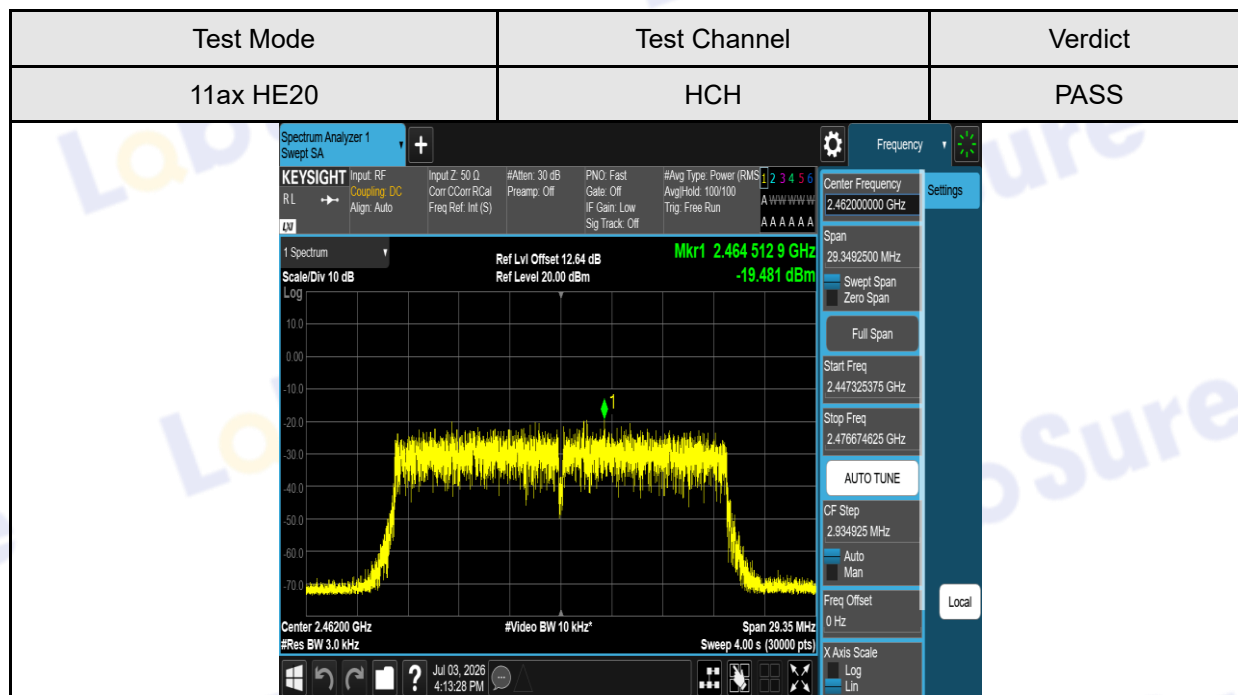
Span: 56.18 MHz

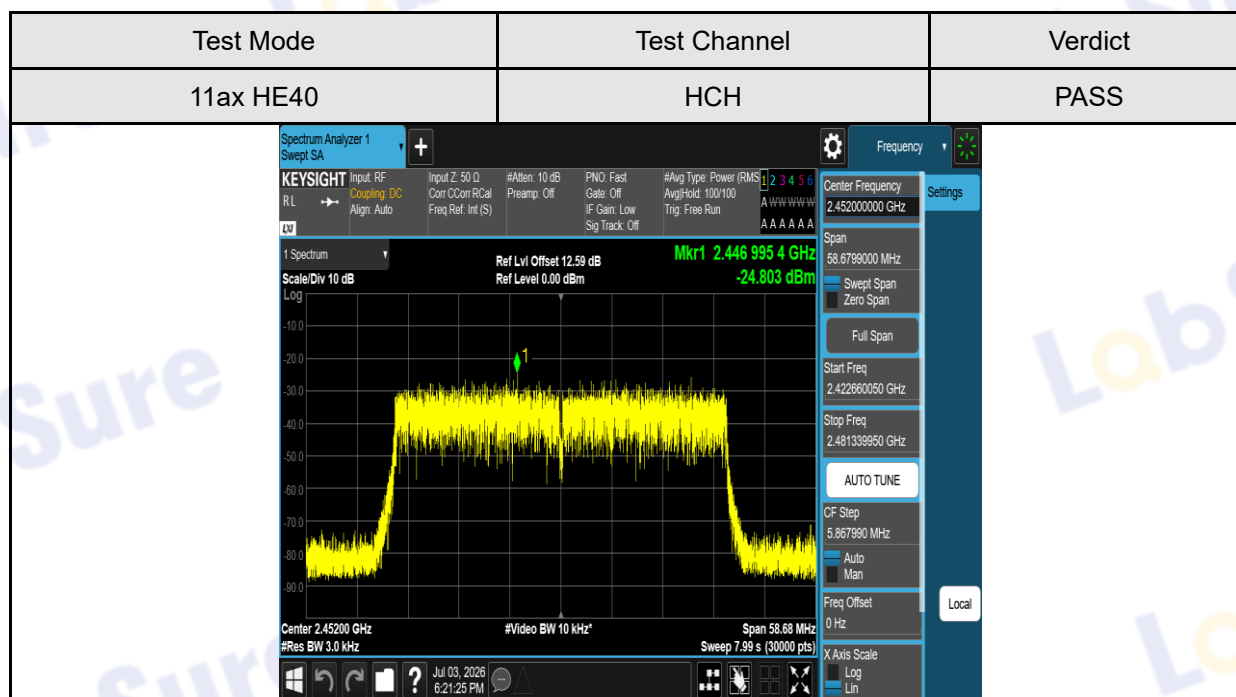
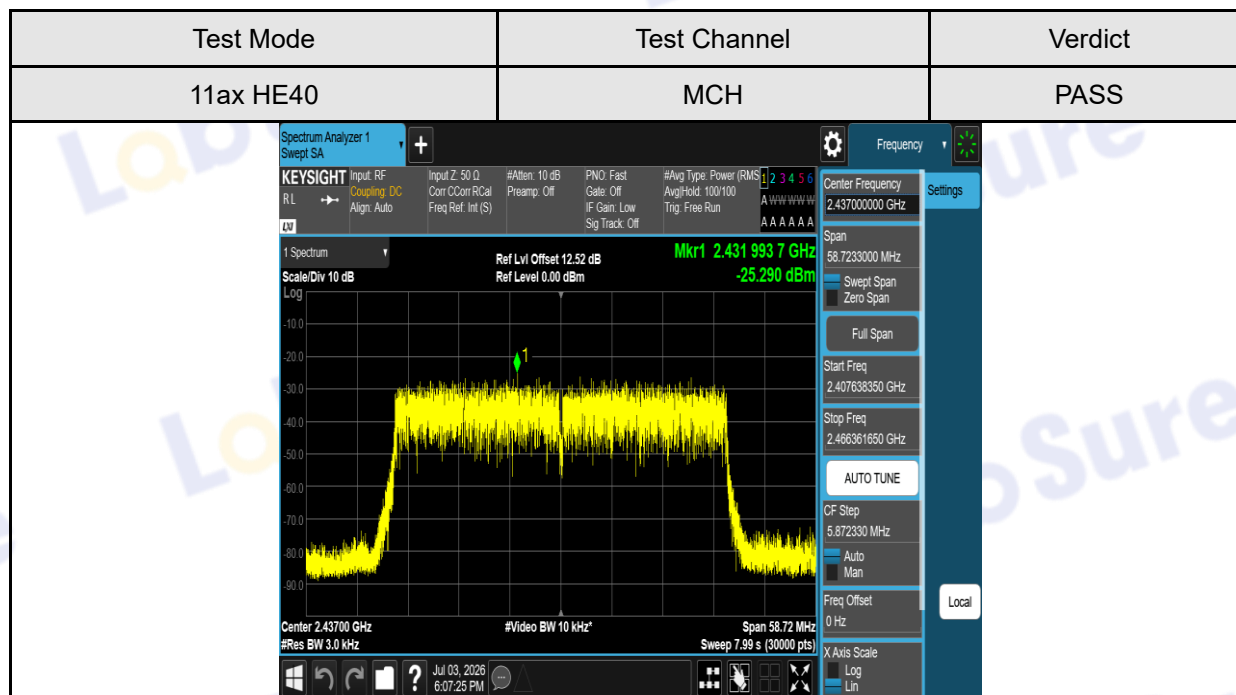
Sweep: 7.65 s (30000 pts)

Settings: Frequency, Span, Start Freq, Stop Freq, AUTO TUNE, CF Step, Freq Offset, X Axis Scale, Local



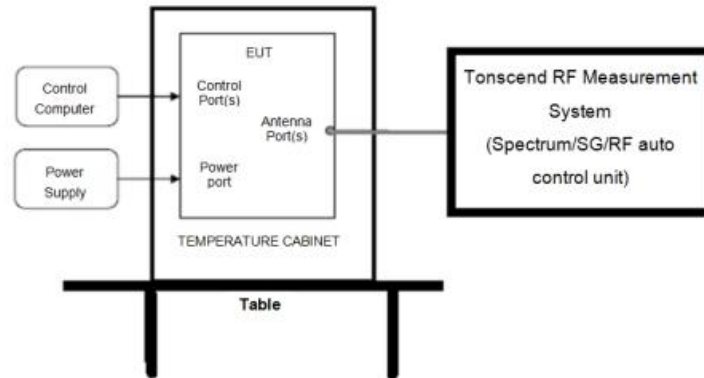






4.5. Conducted Band-edge And Spurious Emissions

4.5.1. Block diagram of test setup



4.5.2. Limits

FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
FCC §15.247 (d)	Conducted Band-edge and Spurious Emissions	30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

4.5.3. 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	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

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

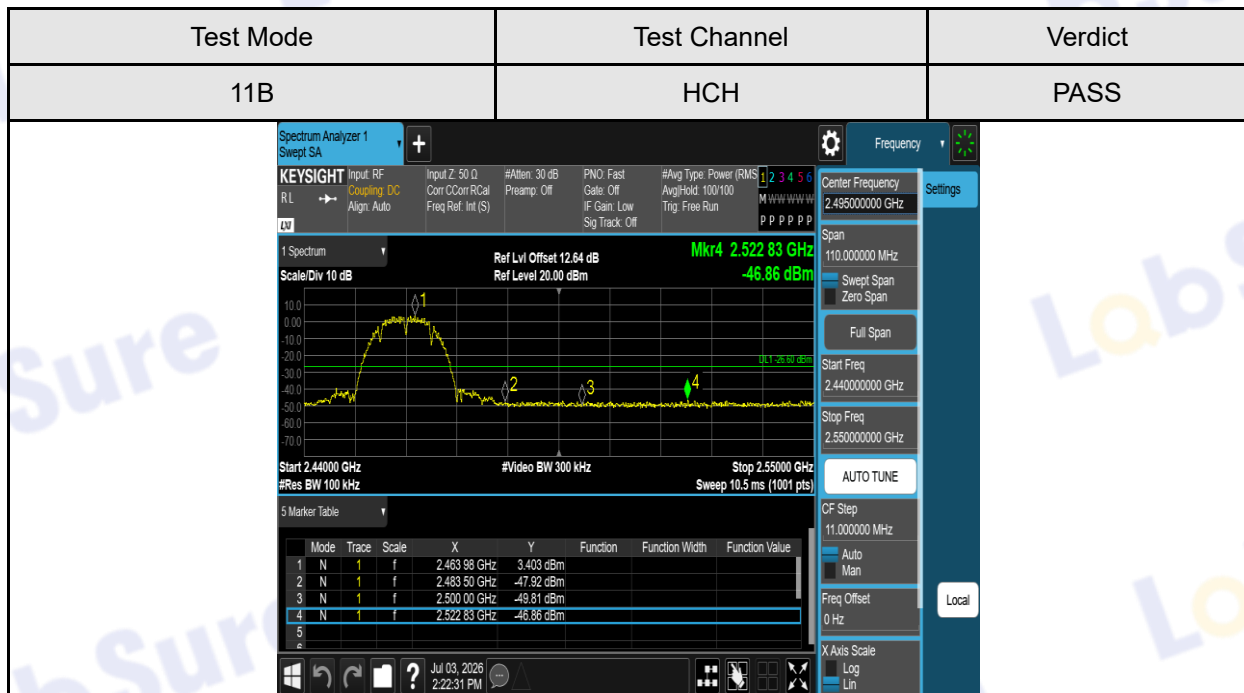
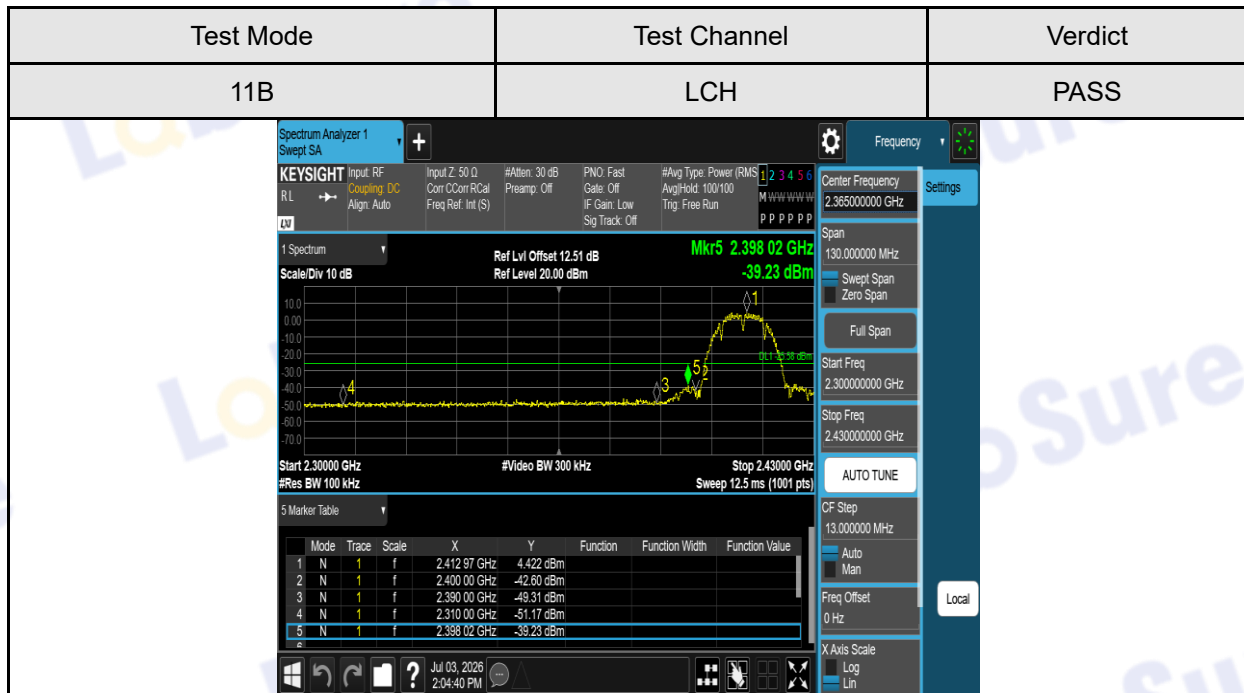
4.5.4.Test Results**TEST ENVIRONMENT**

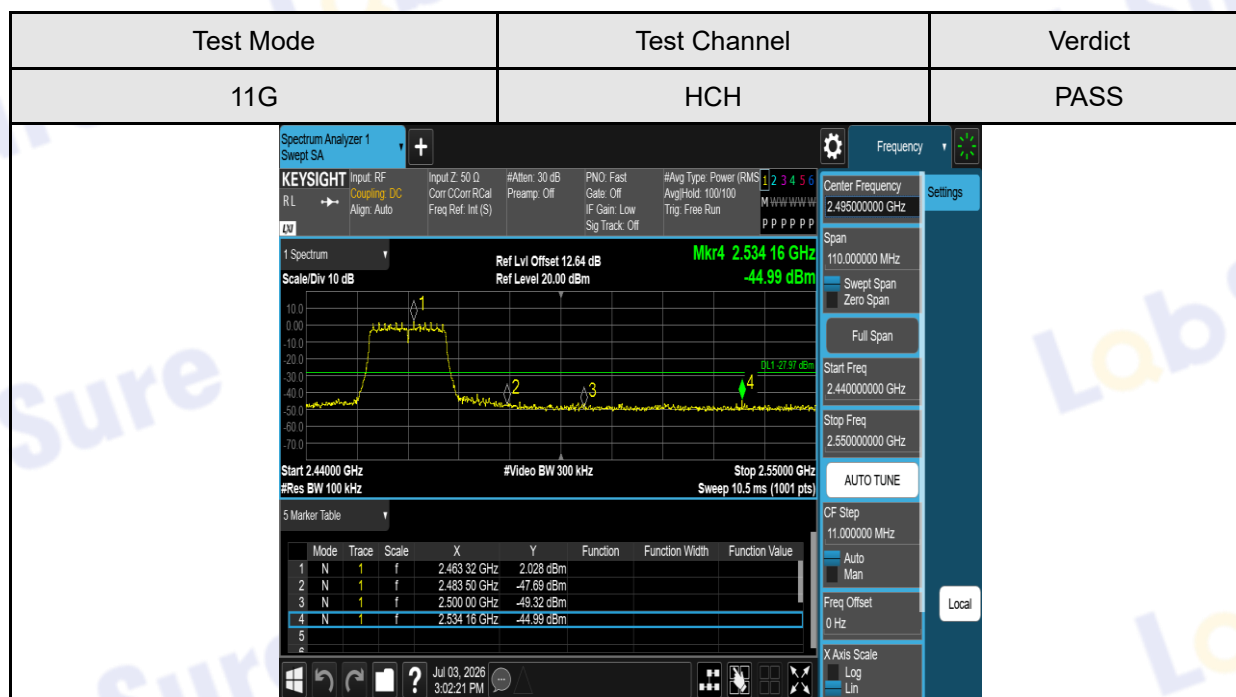
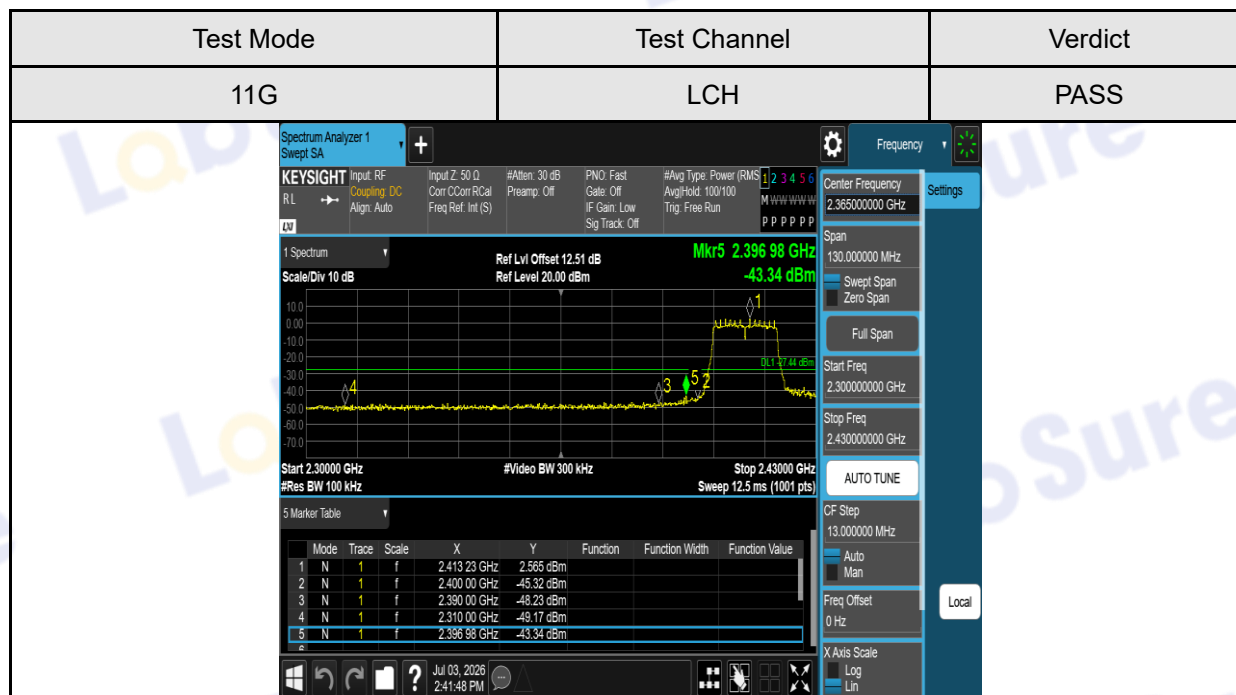
Temperature	24.7	Relative Humidity	51.9%
Atmosphere Pressure	100.9kPa	Test Voltage	DC 5V

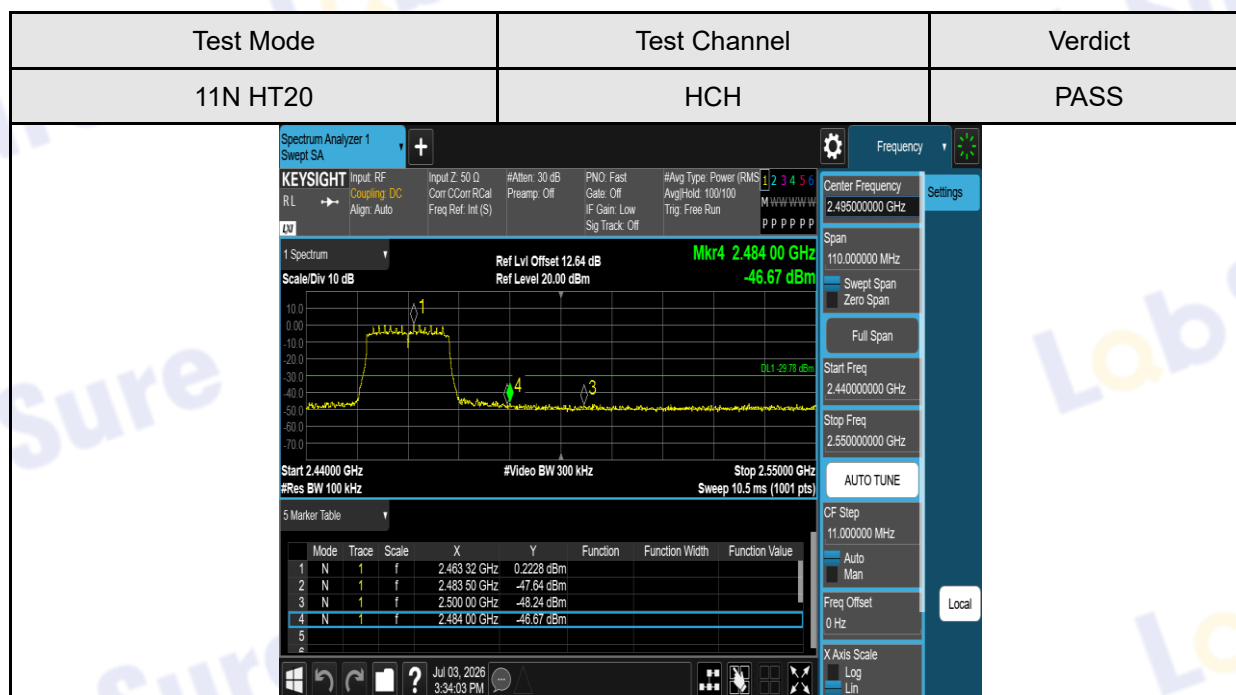
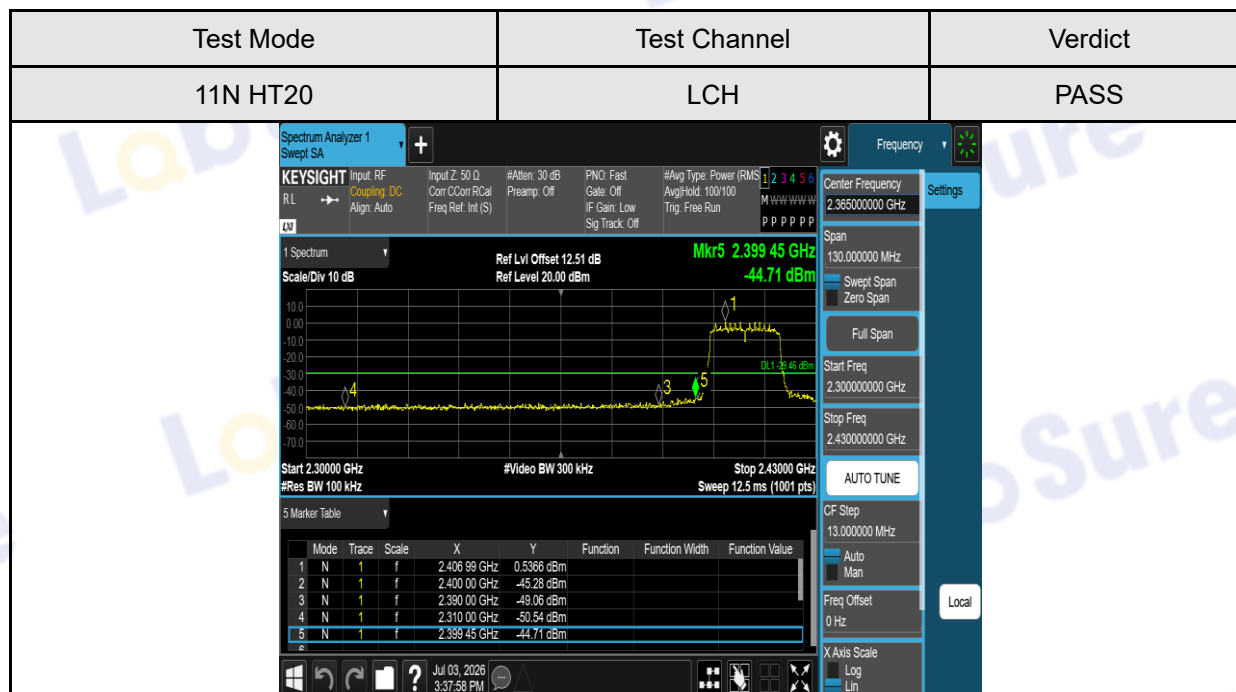
PART I: CONDUCTED BANDEDGE**TEST RESULTS TABLE**

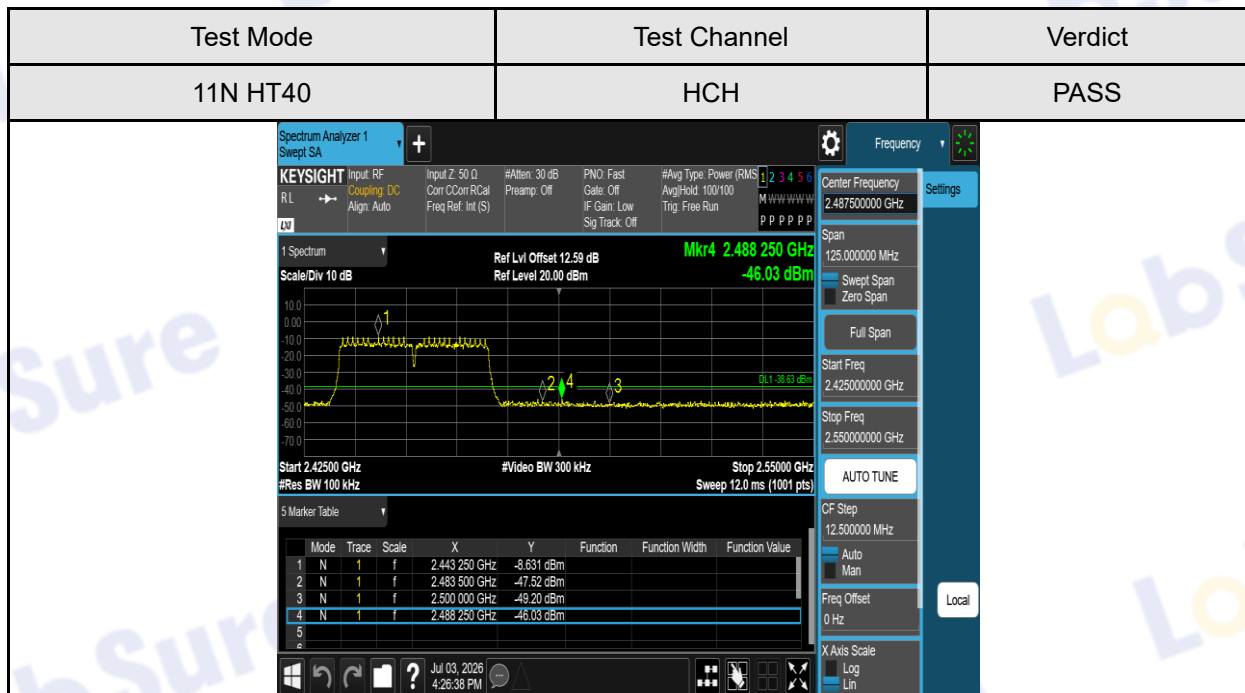
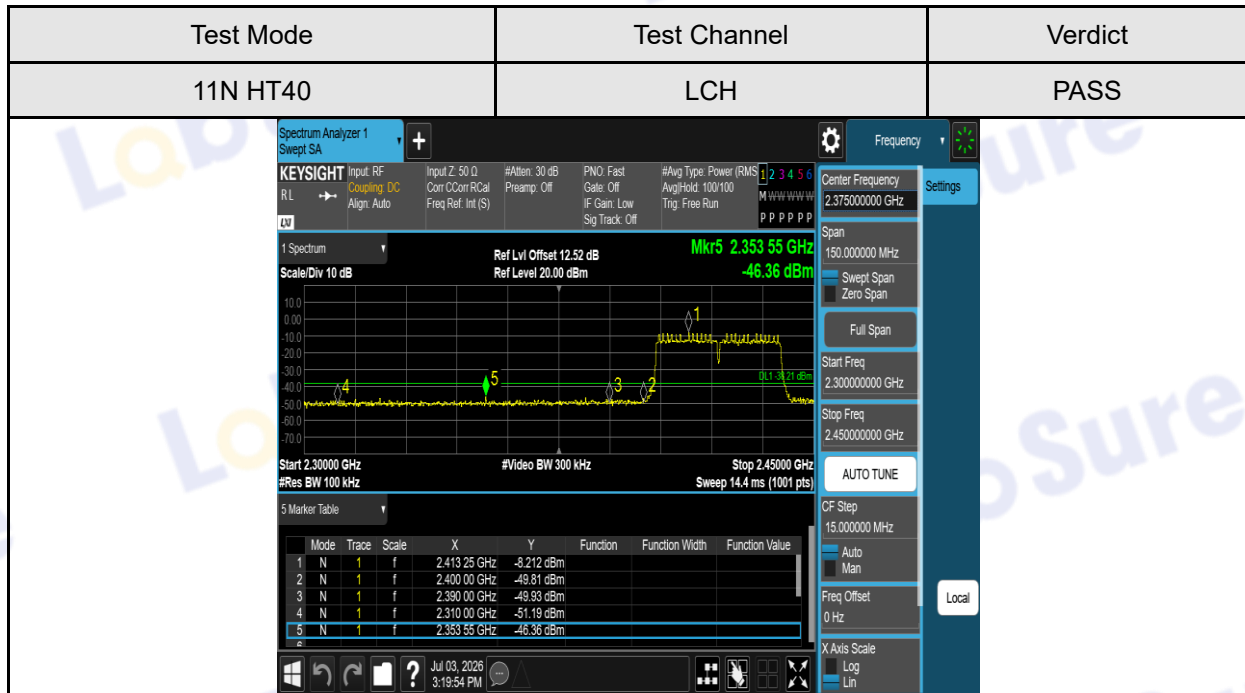
Test Mode	Test Channel	Result[dBm]
11B	LCH	Refer to the test graphs
	HCH	Refer to the test graphs
11G	LCH	Refer to the test graphs
	HCH	Refer to the test graphs
11N HT20	LCH	Refer to the test graphs
	HCH	Refer to the test graphs
11N HT40	LCH	Refer to the test graphs
	HCH	Refer to the test graphs
11ax HE20	LCH	Refer to the test graphs
	HCH	Refer to the test graphs
11ax HE40	LCH	Refer to the test graphs
	HCH	Refer to the test graphs

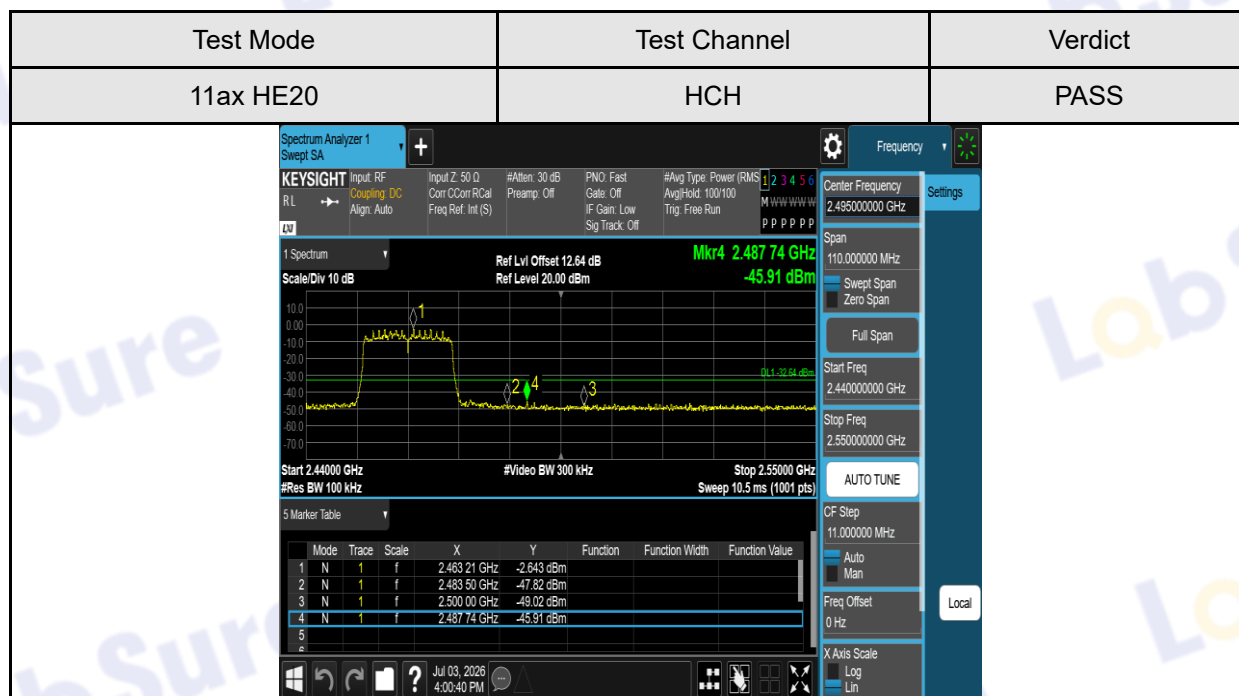
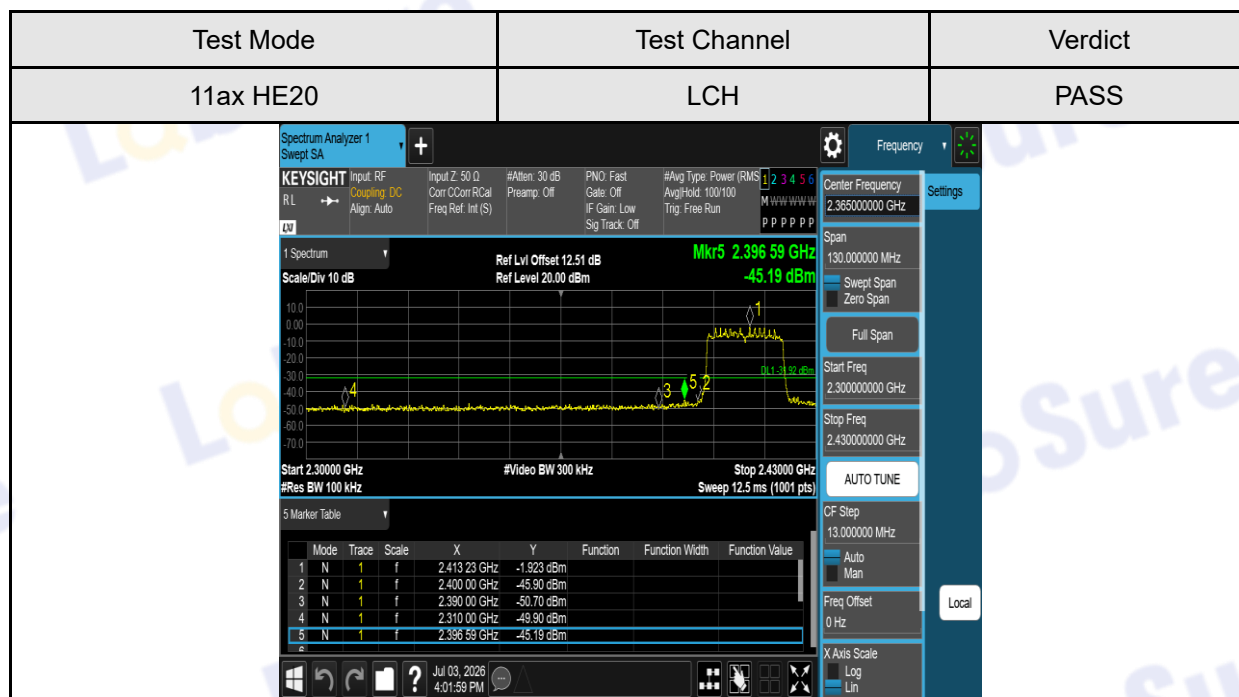
TEST ORIGINAL DATA_CONDUCTED BANDEDGE

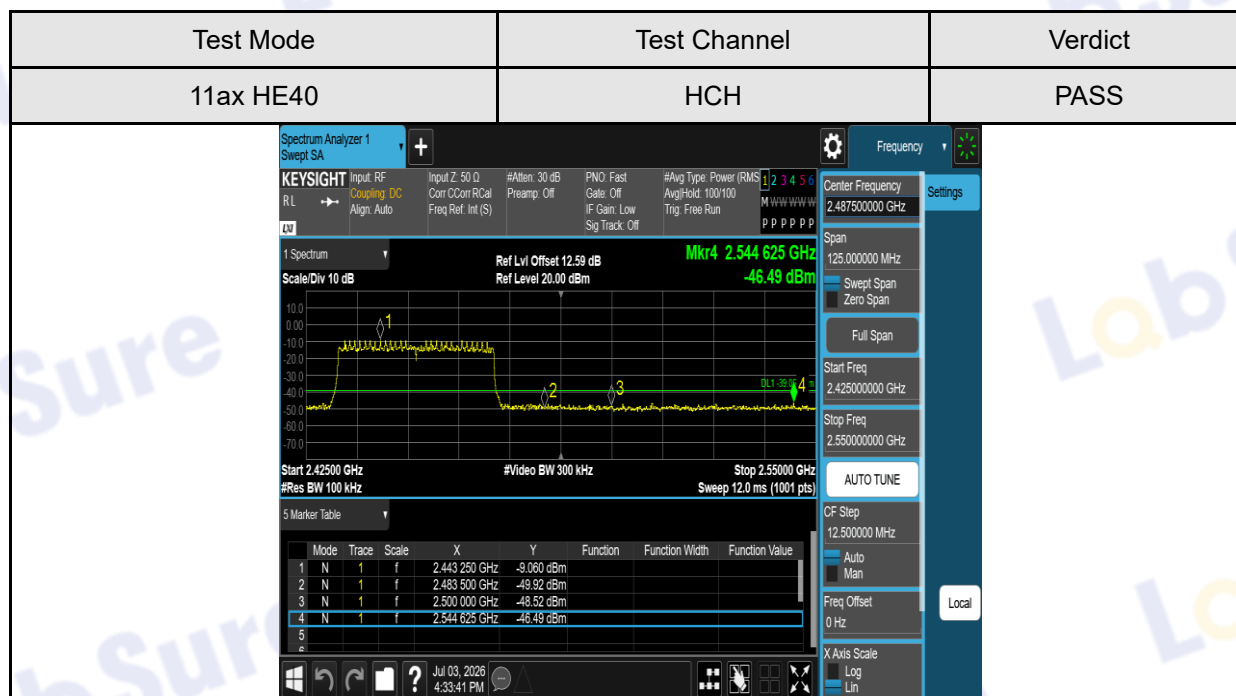
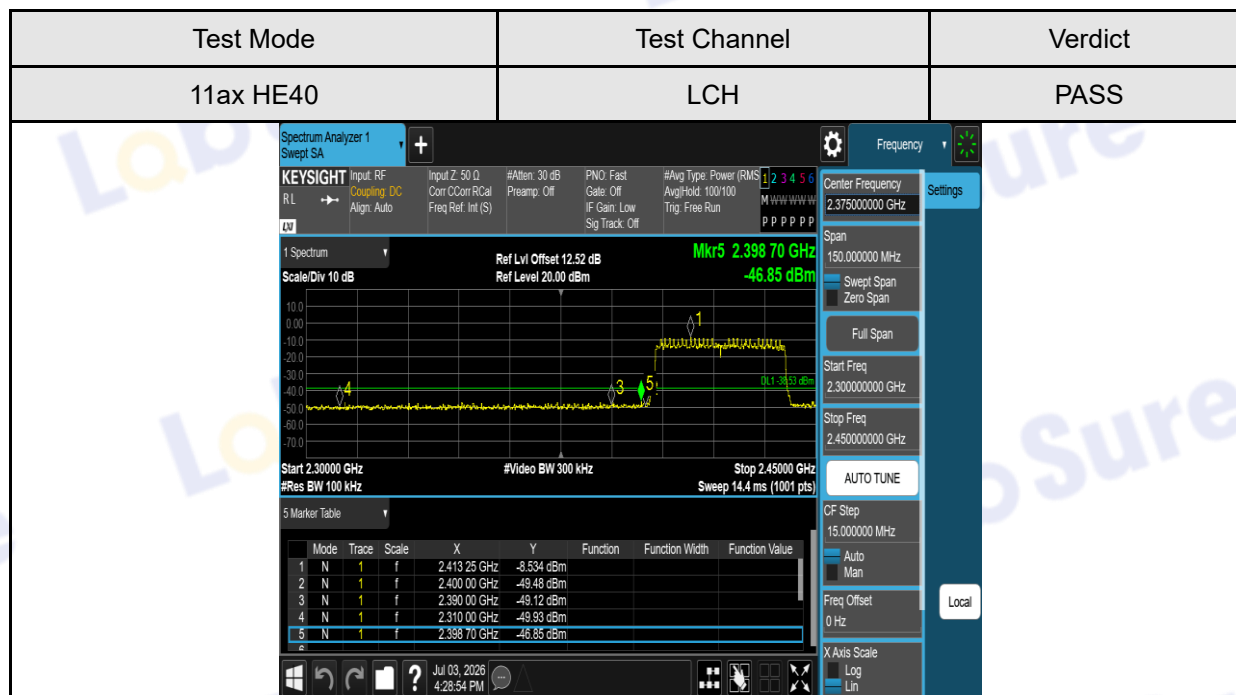












PART II: CONDUCTED BANDEDGE**TEST RESULTS TABLE**

Test Mode	Test Channel	Result	Verdict
11B	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11G	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT20	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT40	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11ax HE20	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11ax HE40	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS

TEST ORIGINAL DATA

