

BAND EDGE COMPLIANCE

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. The analyzer screen captures for this test show an example of the emission mask for the test mode also used during the radiated spurious emissions at the restricted band edges test.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	Fairview Microwave	SA18H-20	UAZ	2026-03-25	2027-03-25
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFJ	2026-03-24	2027-03-24

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EUT:	Lantern Refresh Surgical Assistant (LSA)	Work Order:	ORTH0042
Serial Number:	2528001	Date:	2026-04-30
Customer:	OrthAlign	Temperature:	24.3°C
Attendees:	Larry Varnado, Kian Gholizadeh	Relative Humidity:	51%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Kyle Fujimoto	Job Site:	OC13
Power:	4.5 Vdc via Battery	Configuration:	ORTH0042-2

COMMENTS

Reference Level Offset includes Cable Loss, Pigtail Loss, 20 dB Attenuator, and DC Block

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Kyle Fujimoto

Tested By

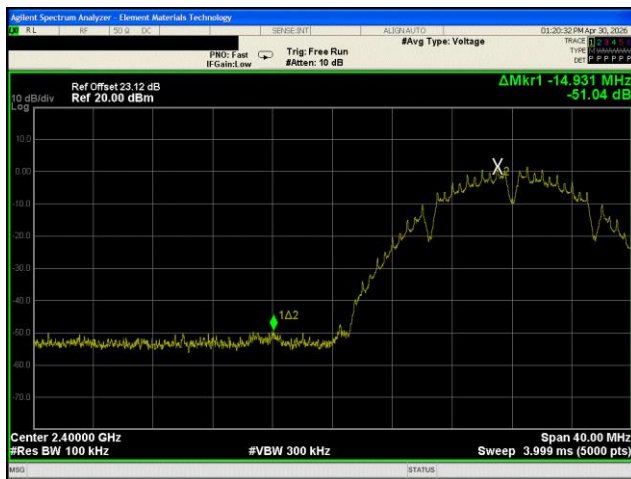
TEST RESULTS

	Value (dBc)	Limit ≤ (dBc)	Result
20 MHz BW			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	-51.04	-30	N/A
High Channel 11, 2462 MHz	-52.07	-30	N/A
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	-52.21	-30	N/A
High Channel 11, 2462 MHz	-52.14	-30	N/A
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	-40.2	-30	N/A
High Channel 11, 2462 MHz	-48.82	-30	N/A
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	-34.89	-30	N/A
High Channel 11, 2462 MHz	-46.31	-30	N/A
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	-34.61	-30	N/A
High Channel 11, 2462 MHz	-47.03	-30	N/A
802.11(n) MCS0			
Low Channel 1, 2412 MHz	-37.58	-30	N/A
High Channel 11, 2462 MHz	-48.57	-30	N/A
802.11(n) MCS7			
Low Channel 1, 2412 MHz	-35.92	-30	N/A
High Channel 11, 2462 MHz	-46.44	-30	N/A
40 MHz BW			
802.11(n) MCS0			

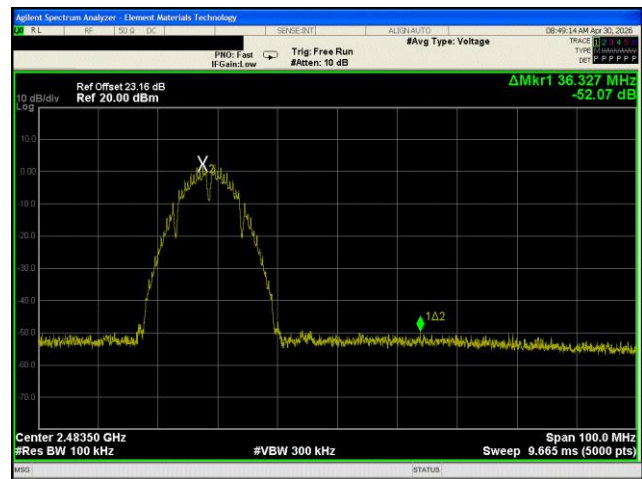
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	Value (dBc)	Limit ≤ (dBc)	Result
Low Channel 1/5, 2422 MHz	-34.12	-30	N/A
High Channel 7/11, 2452 MHz	-44.12	-30	N/A
802.11(n) MCS7			
Low Channel 1/5, 2422 MHz	-33.39	-30	N/A
High Channel 7/11, 2452 MHz	-43.56	-30	N/A

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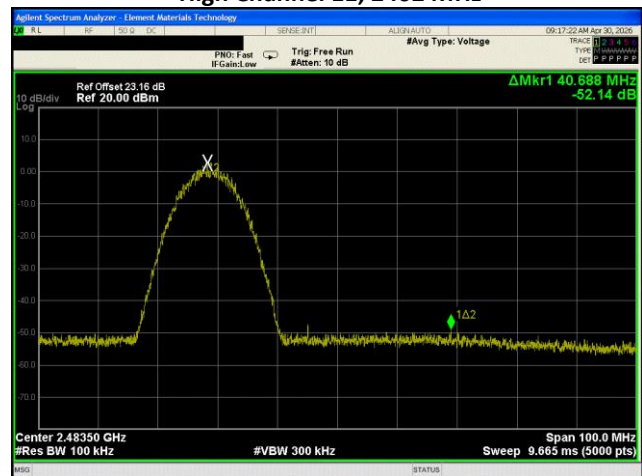
20 MHz BW
802.11(b) 1 Mbps
Low Channel 1, 2412 MHz



20 MHz BW
802.11(b) 1 Mbps
High Channel 11, 2462 MHz

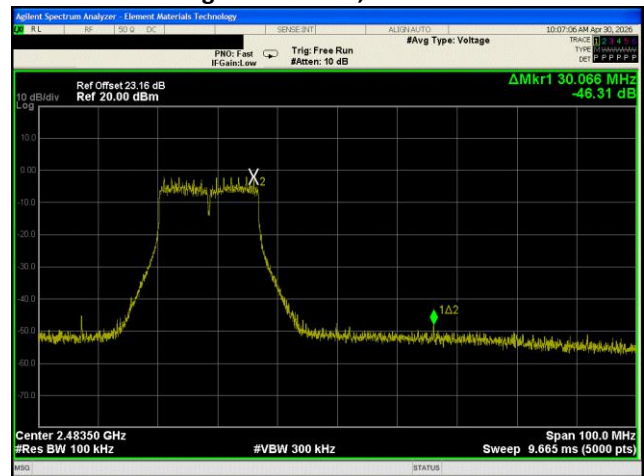
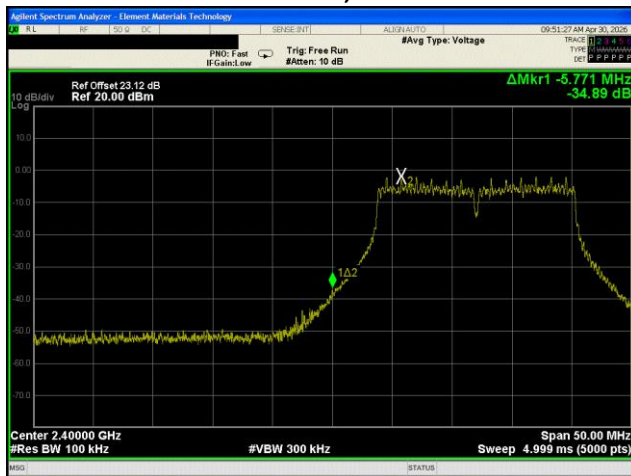
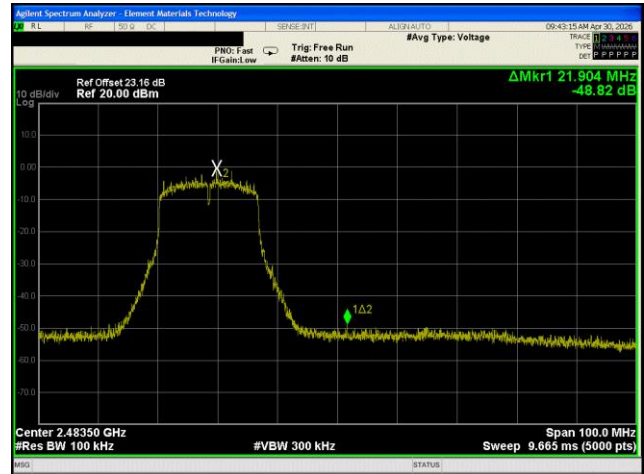


20 MHz BW
802.11(b) 11 Mbps
Low Channel 1, 2412 MHz

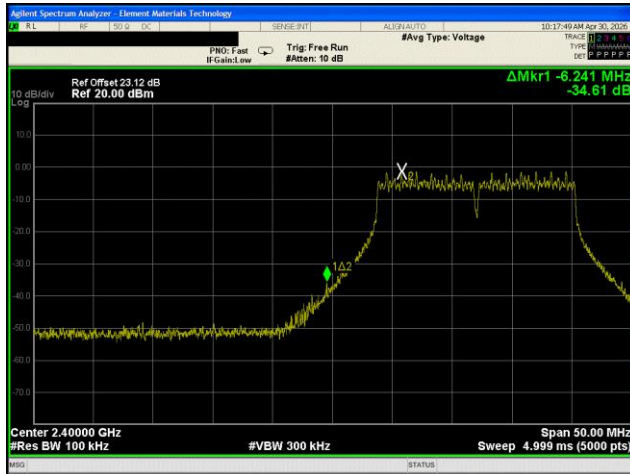


20 MHz BW
802.11(b) 11 Mbps
High Channel 11, 2462 MHz

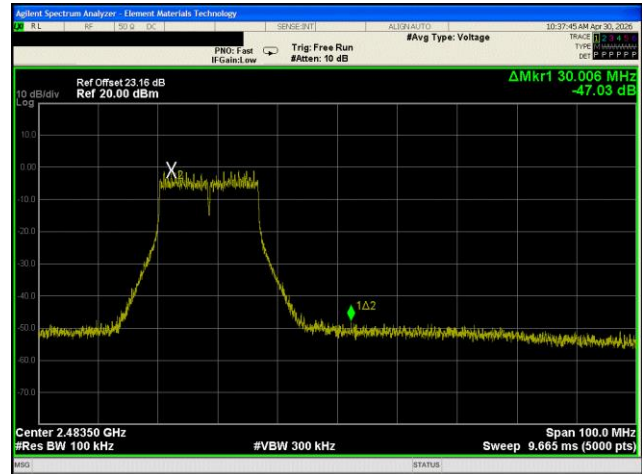
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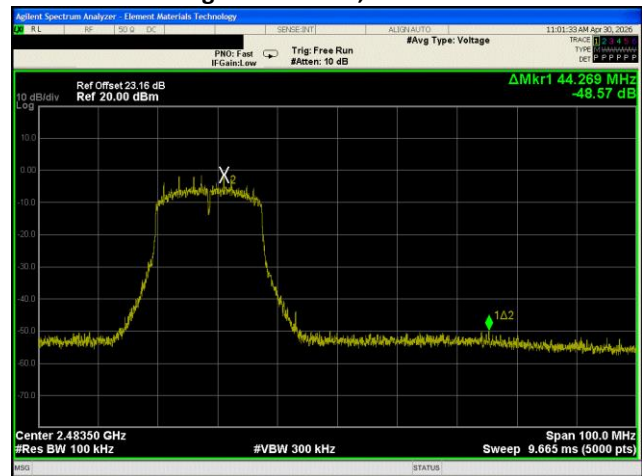
20 MHz BW
802.11(g) 54 Mbps
Low Channel 1, 2412 MHz



20 MHz BW
802.11(g) 54 Mbps
High Channel 11, 2462 MHz

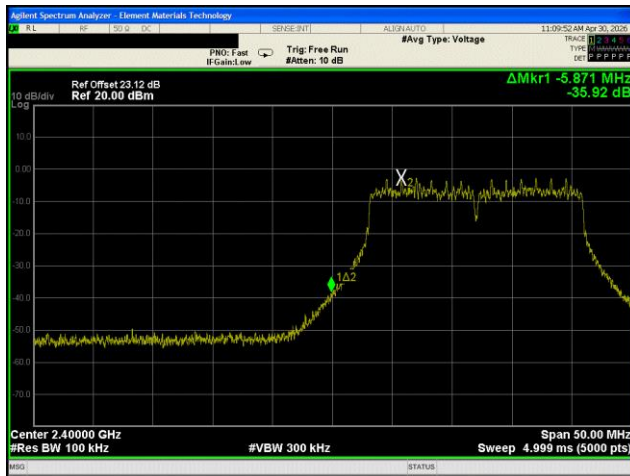


20 MHz BW
802.11(n) MCS0
Low Channel 1, 2412 MHz

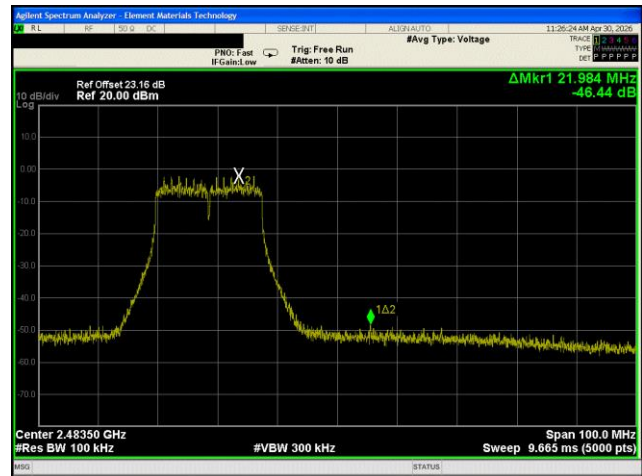


20 MHz BW
802.11(n) MCS0
High Channel 11, 2462 MHz

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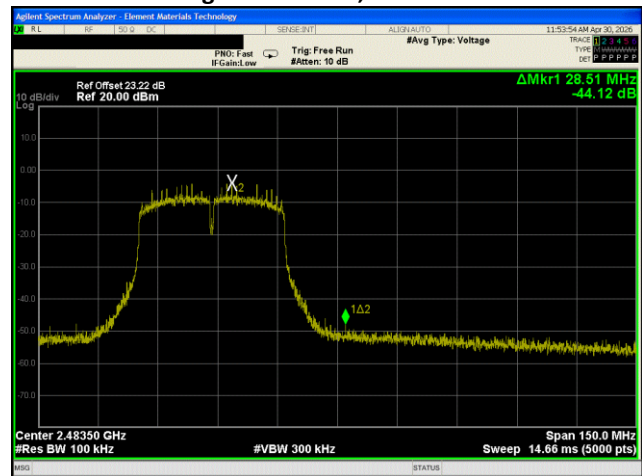
20 MHz BW
802.11(n) MCS7
Low Channel 1, 2412 MHz



20 MHz BW
802.11(n) MCS7
High Channel 11, 2462 MHz

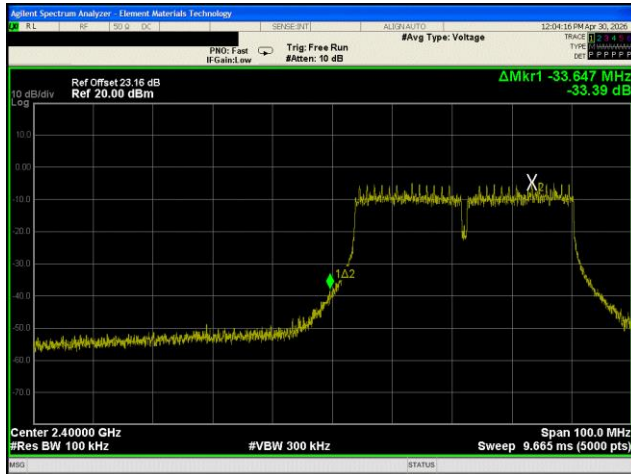


40 MHz BW
802.11(n) MCS0
Low Channel 1/5, 2422 MHz

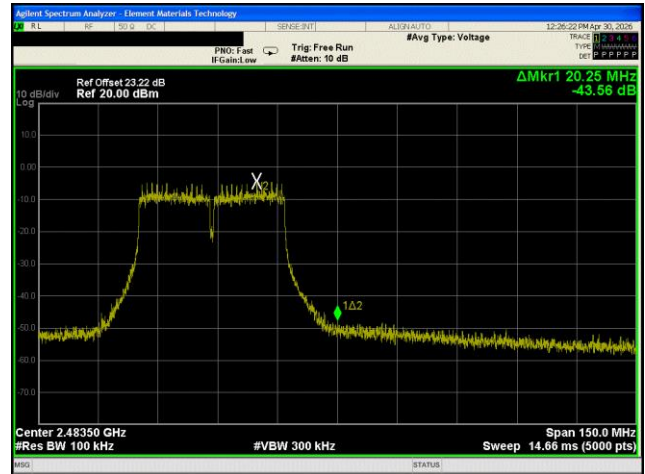


40 MHz BW
802.11(n) MCS0
High Channel 7/11, 2452 MHz

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40 MHz BW
802.11(n) MCS7
Low Channel 1/5, 2422 MHz



40 MHz BW
802.11(n) MCS7
High Channel 7/11, 2452 MHz