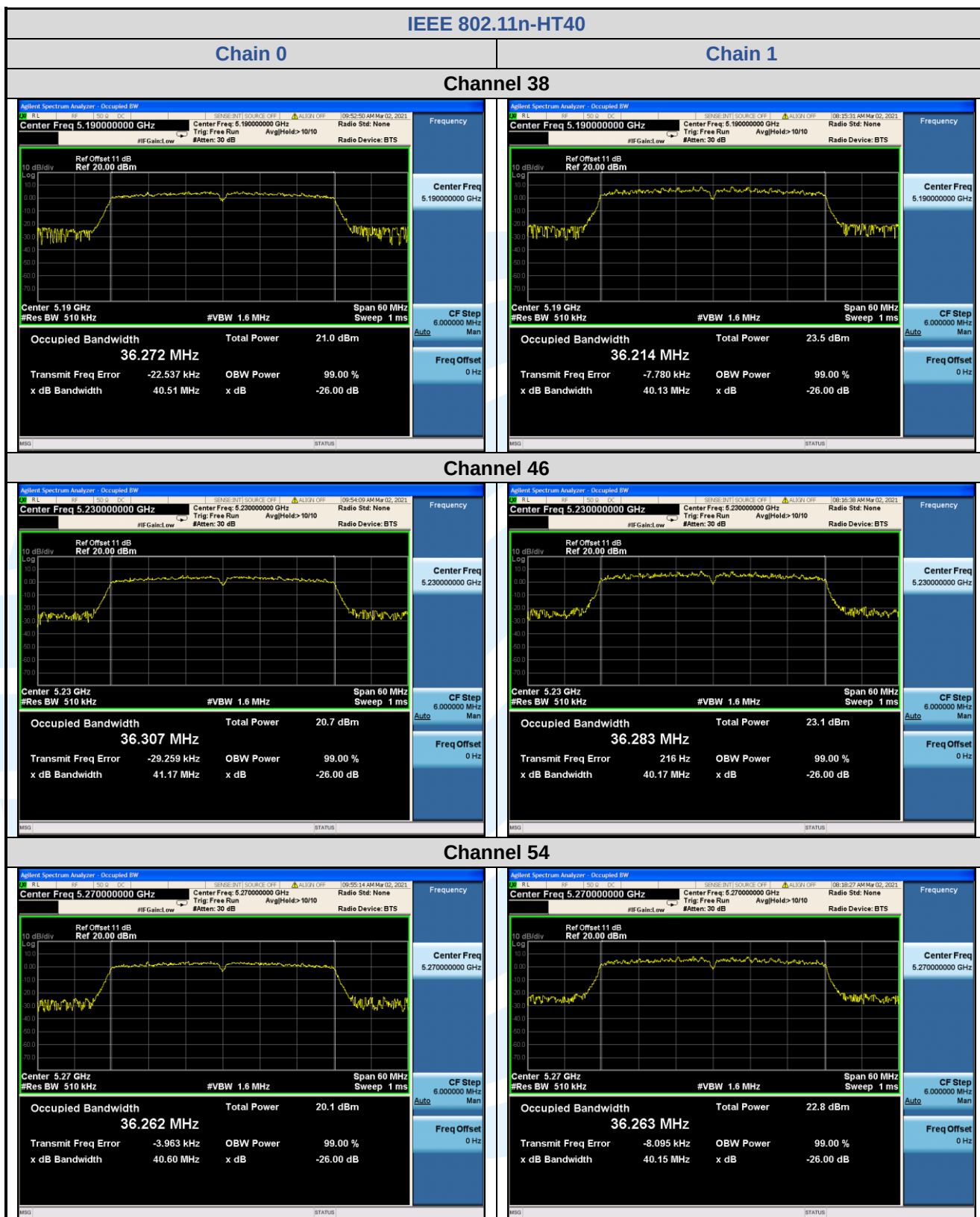
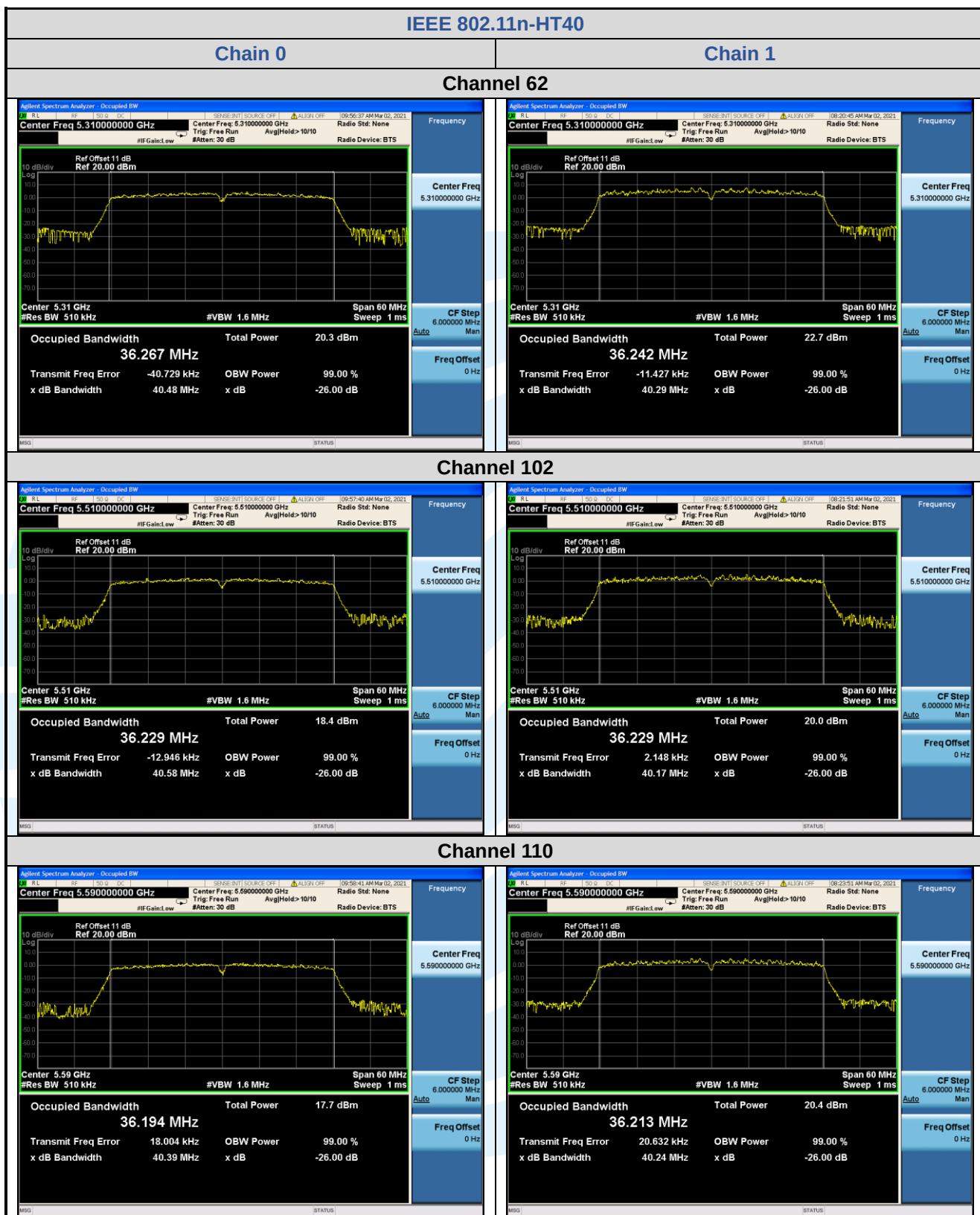
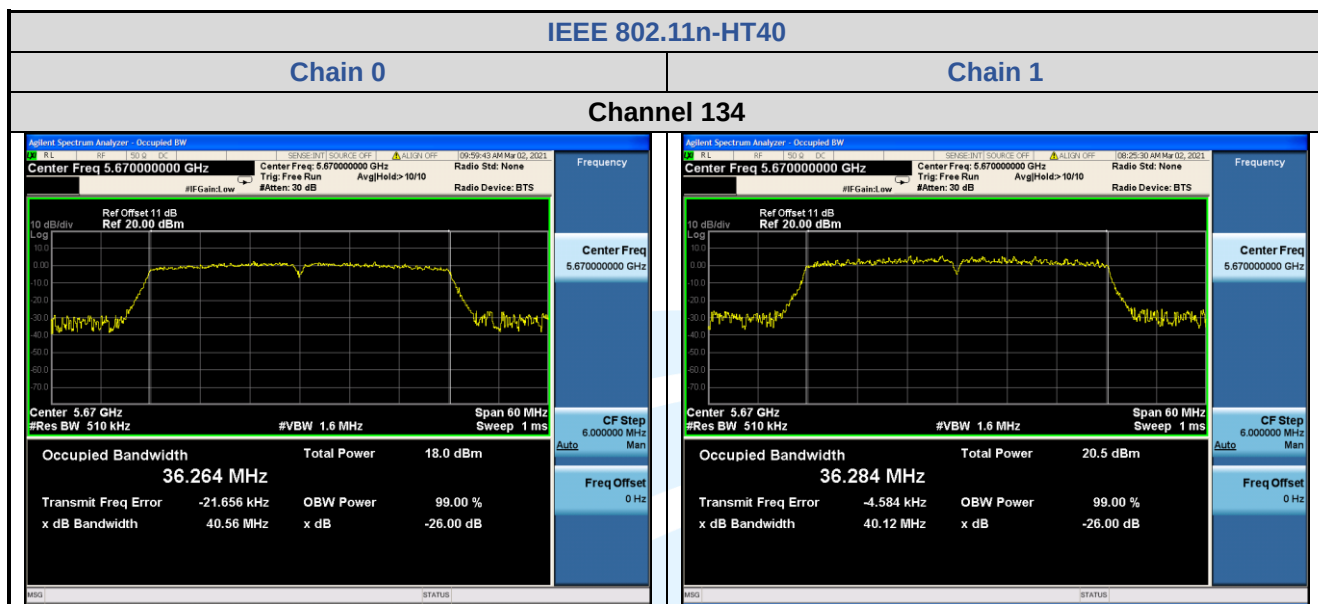








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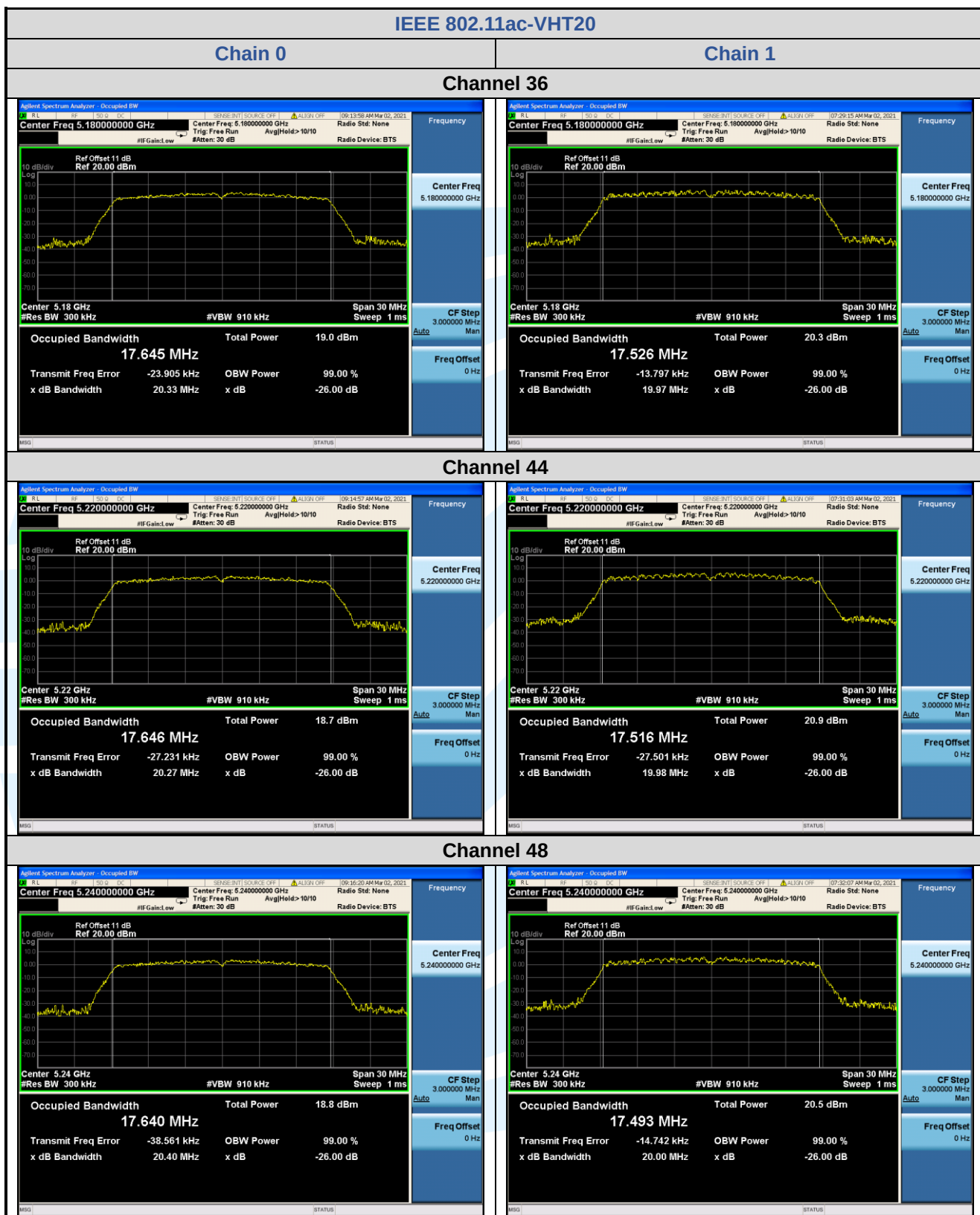
Tel: +86-755-28230888

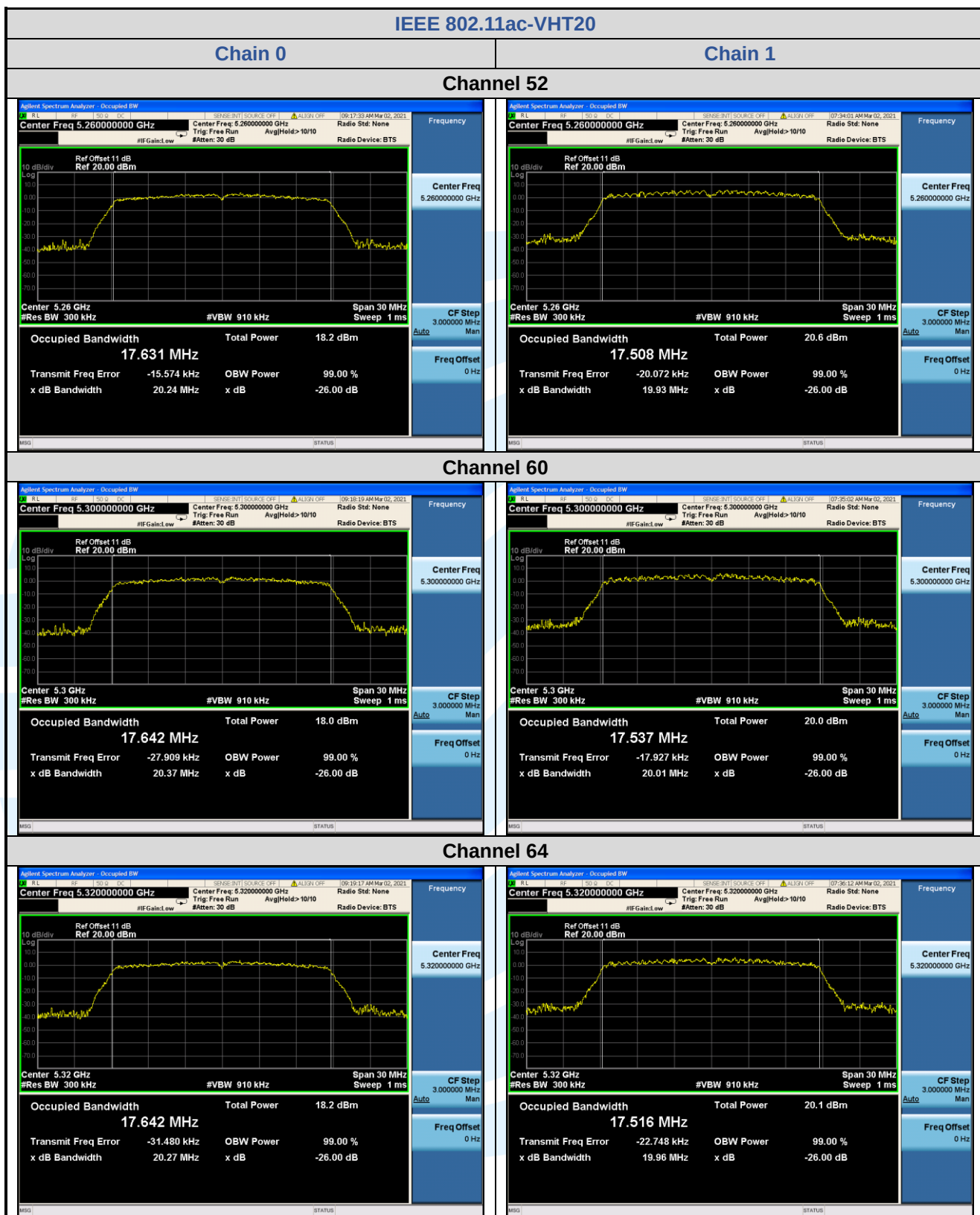
Fax: +86-755-28230886

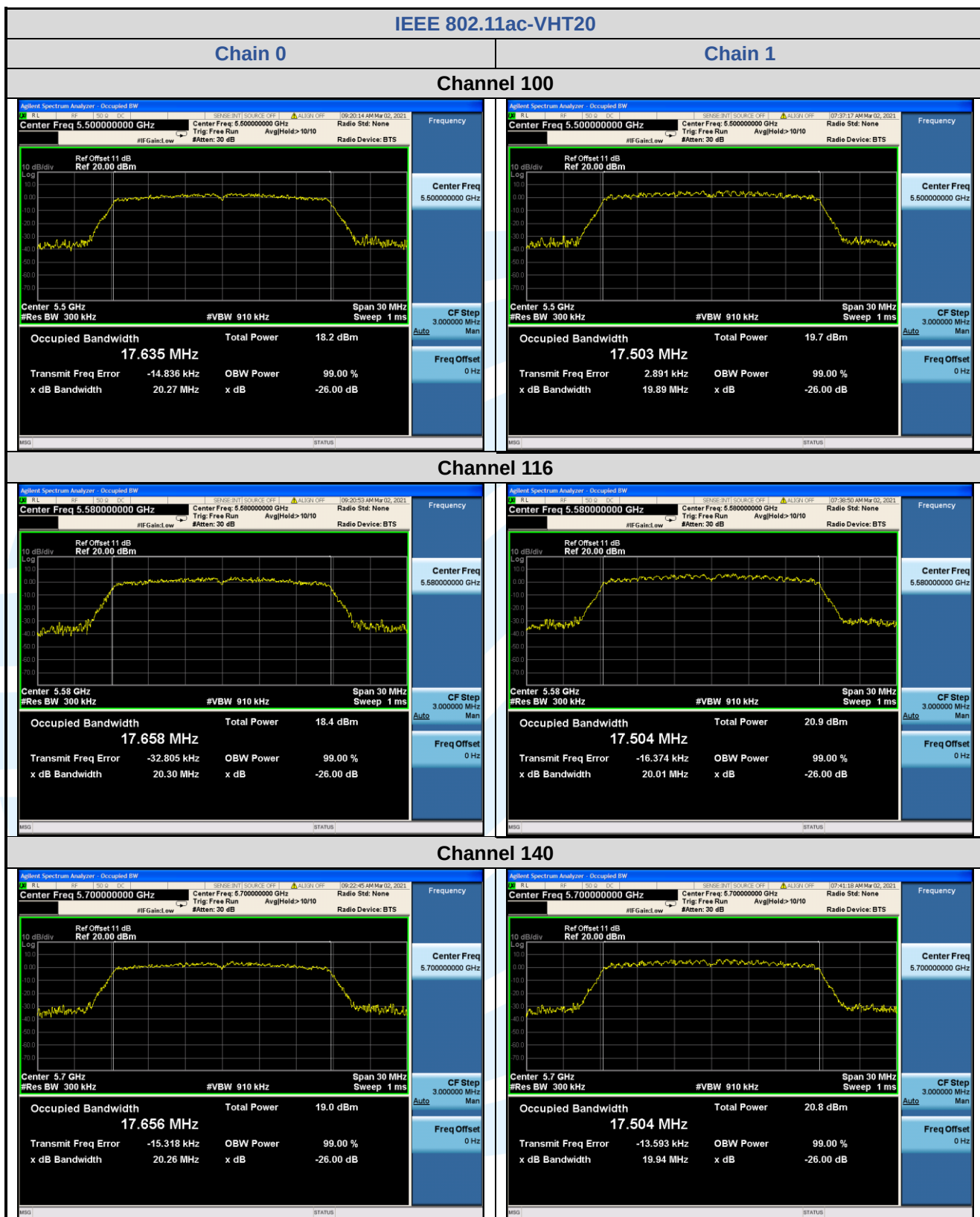
E-mail: info@uttlab.com

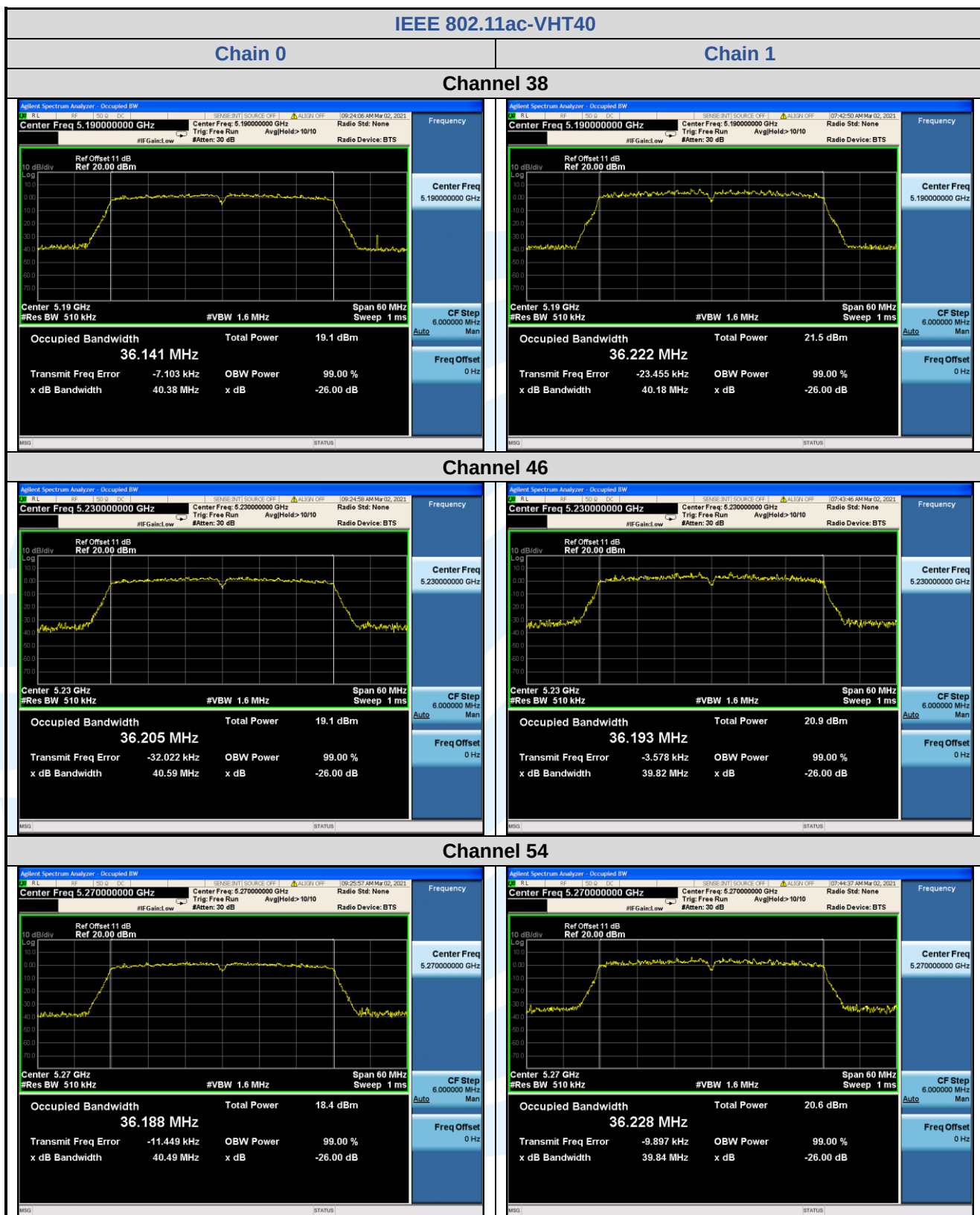
<http://www.uttlab.com>

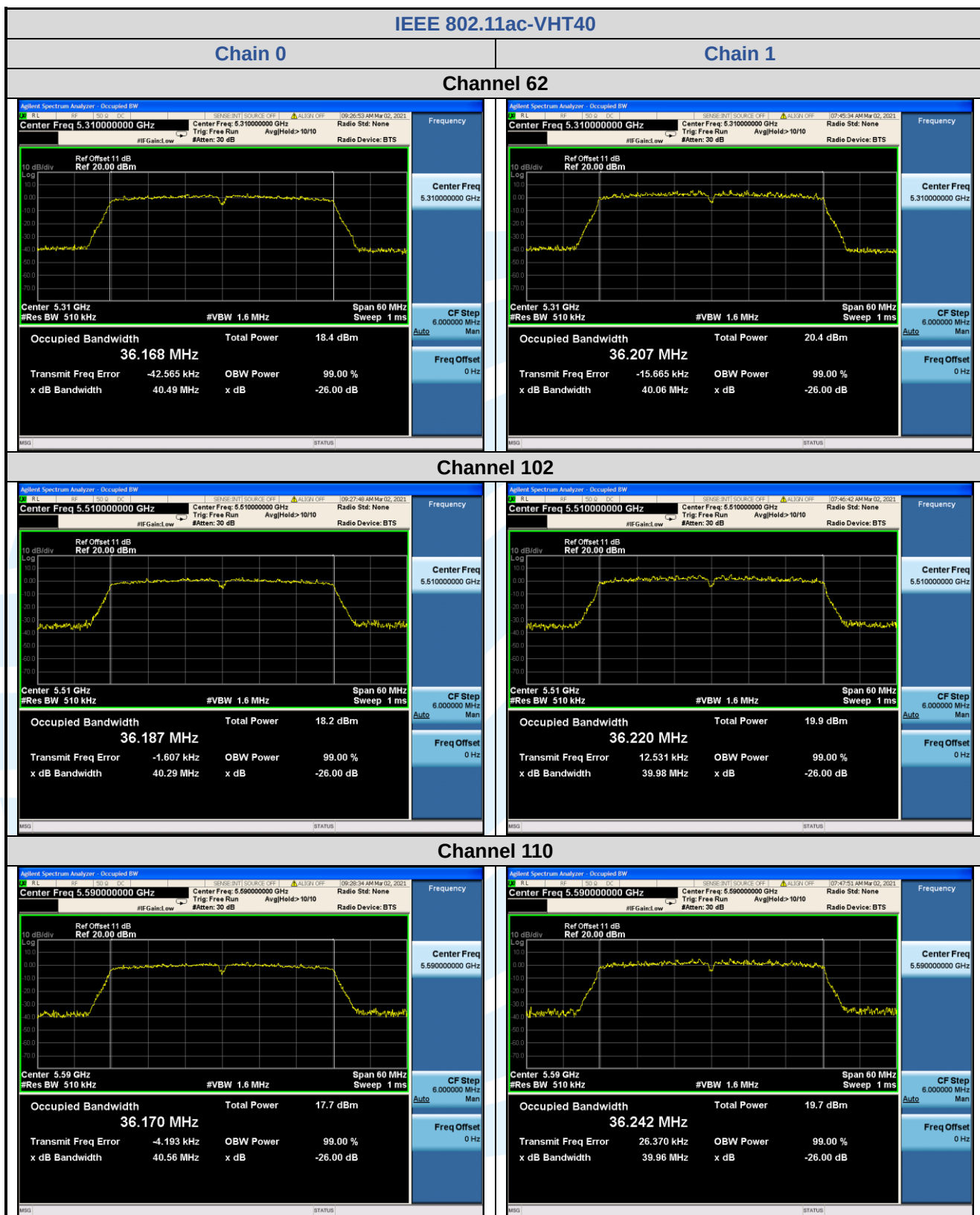
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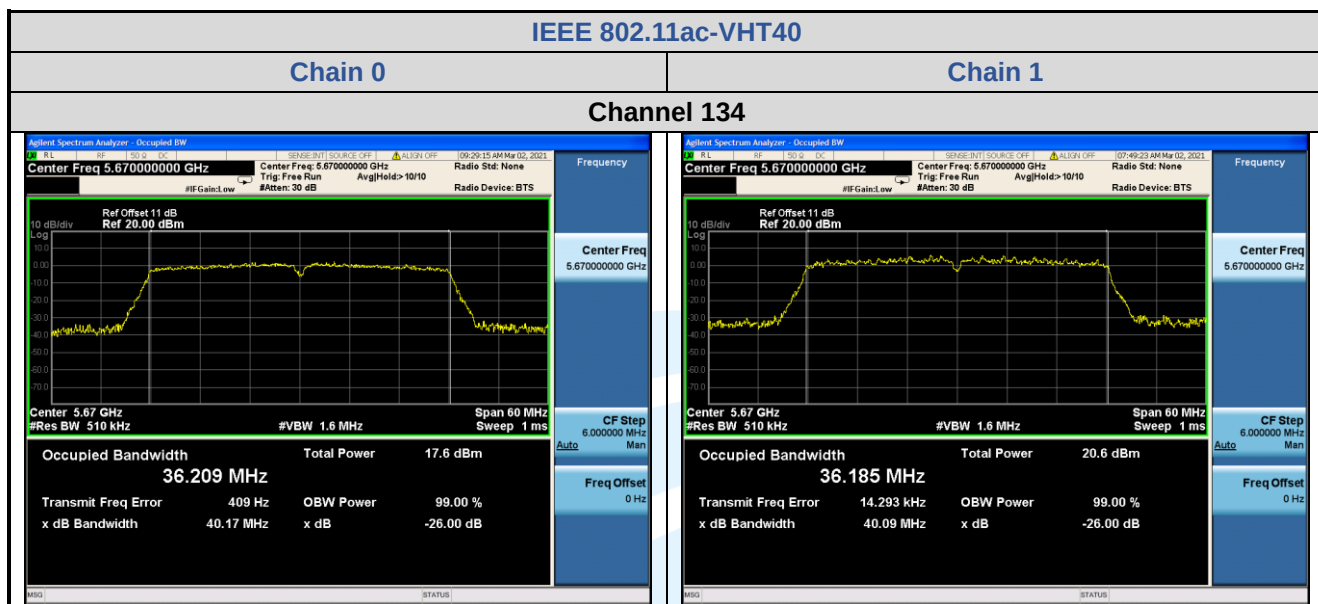












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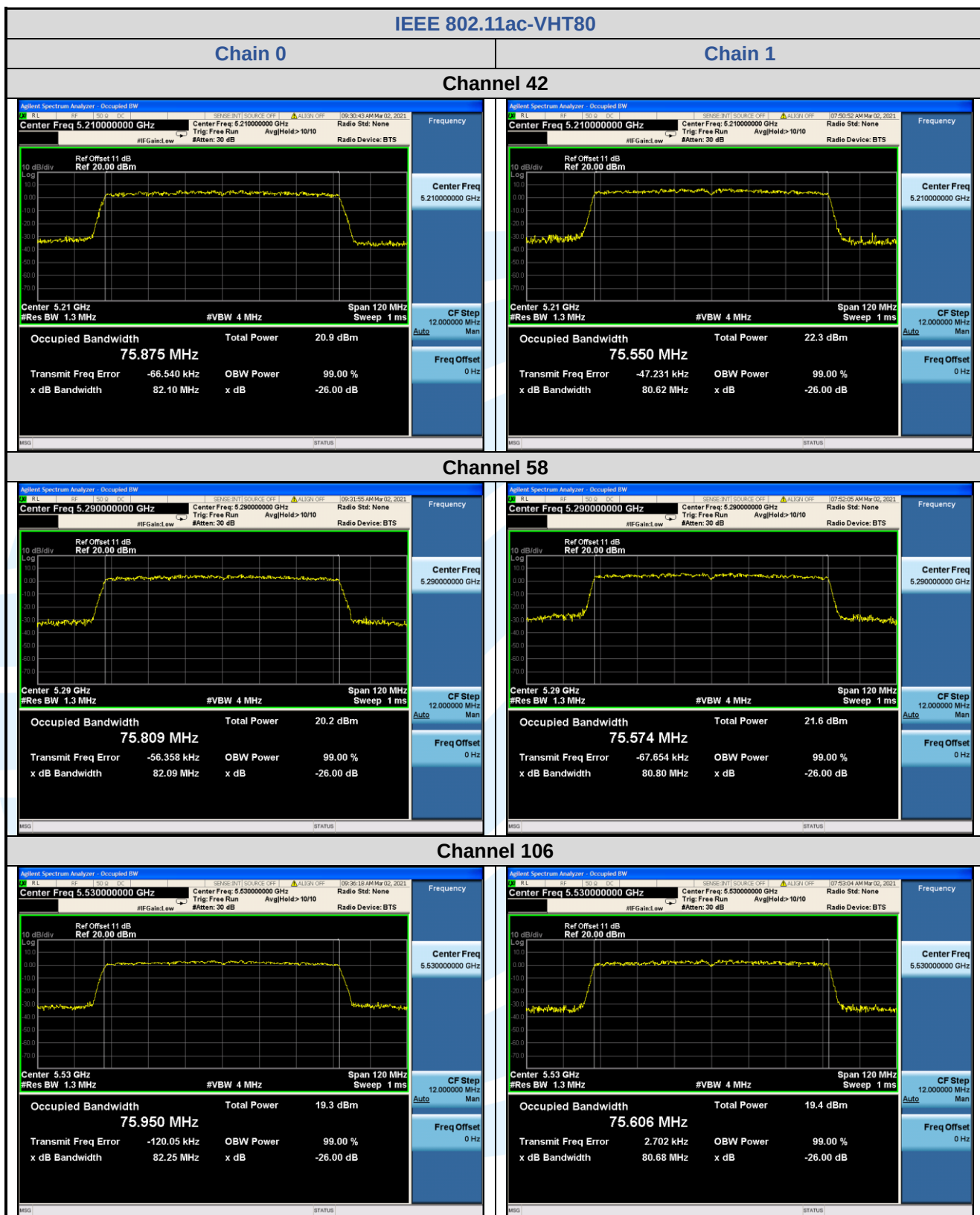
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5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

Limit: Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

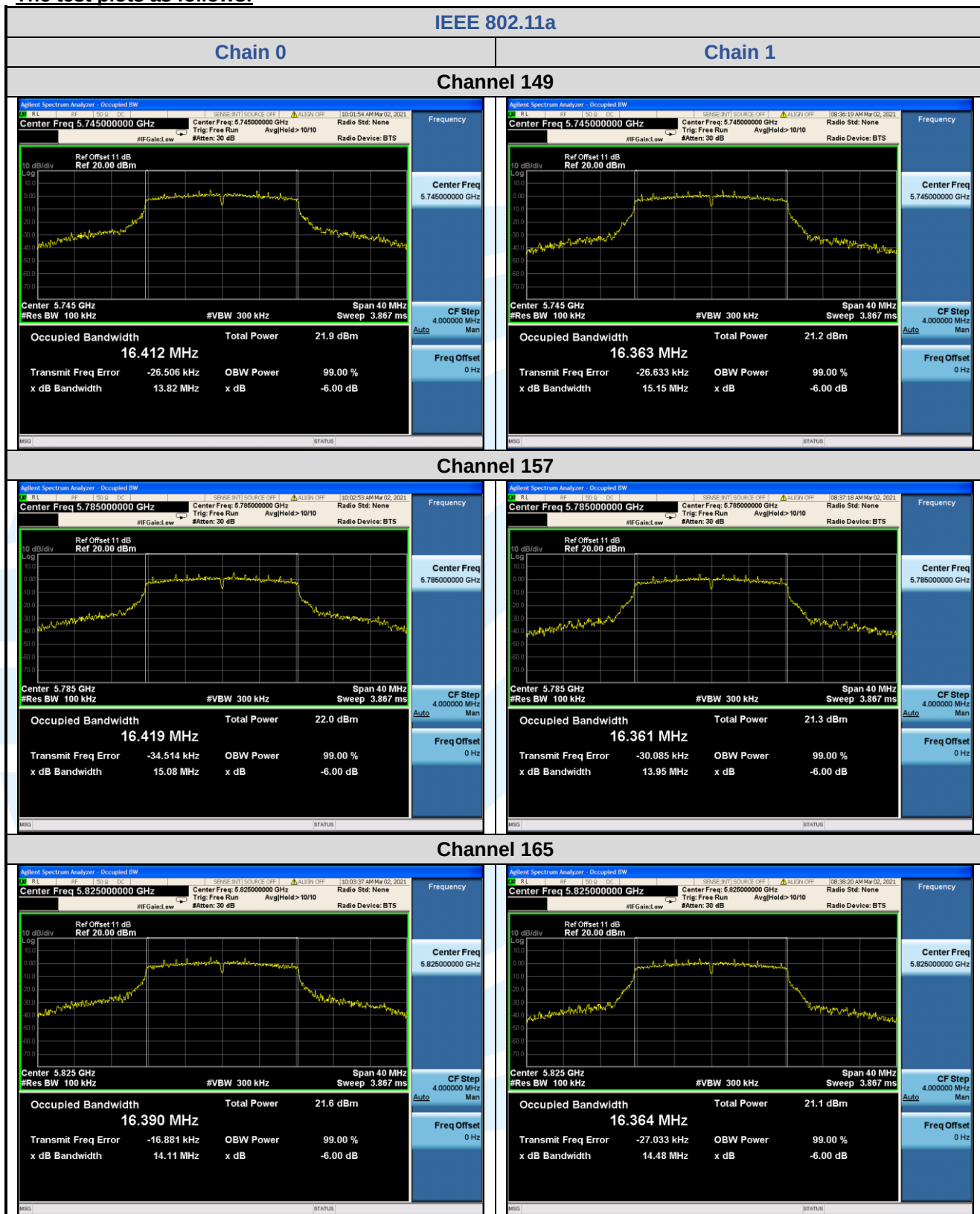
Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Mode	Channel/ Frequency (MHz)	6 dB Bandwidth (MHz)		99% Bandwidth (MHz)		6 dB Bandwidth Limit	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
IEEE 802.11a	149 (5745)	13.82	15.15	16.412	16.363	> 500 kHz	Pass
	157 (5785)	15.08	13.95	16.419	16.361	> 500 kHz	Pass
	165 (5825)	14.11	14.48	16.390	16.364	> 500 kHz	Pass
IEEE 802.11n-HT20	149 (5745)	15.61	16.33	17.548	17.545	> 500 kHz	Pass
	157 (5785)	15.31	15.76	17.575	17.537	> 500 kHz	Pass
	165 (5825)	15.32	16.31	17.563	17.527	> 500 kHz	Pass
IEEE 802.11n-HT40	151 (5755)	35.20	35.71	36.043	36.077	> 500 kHz	Pass
	159 (5795)	35.07	36.28	36.023	36.072	> 500 kHz	Pass
IEEE 802.11ac-VHT20	149 (5745)	15.14	16.54	17.530	17.504	> 500 kHz	Pass
	157 (5785)	15.17	16.74	17.529	17.504	> 500 kHz	Pass
	165 (5825)	15.10	16.56	17.535	17.516	> 500 kHz	Pass
IEEE 802.11ac-VHT40	151 (5755)	35.21	35.36	35.976	36.051	> 500 kHz	Pass
	159 (5795)	35.23	35.90	36.018	36.048	> 500 kHz	Pass
IEEE 802.11ac-VHT80	155 (5775)	75.84	76.38	75.673	75.621	> 500 kHz	Pass

The test plots as follows:



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