

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

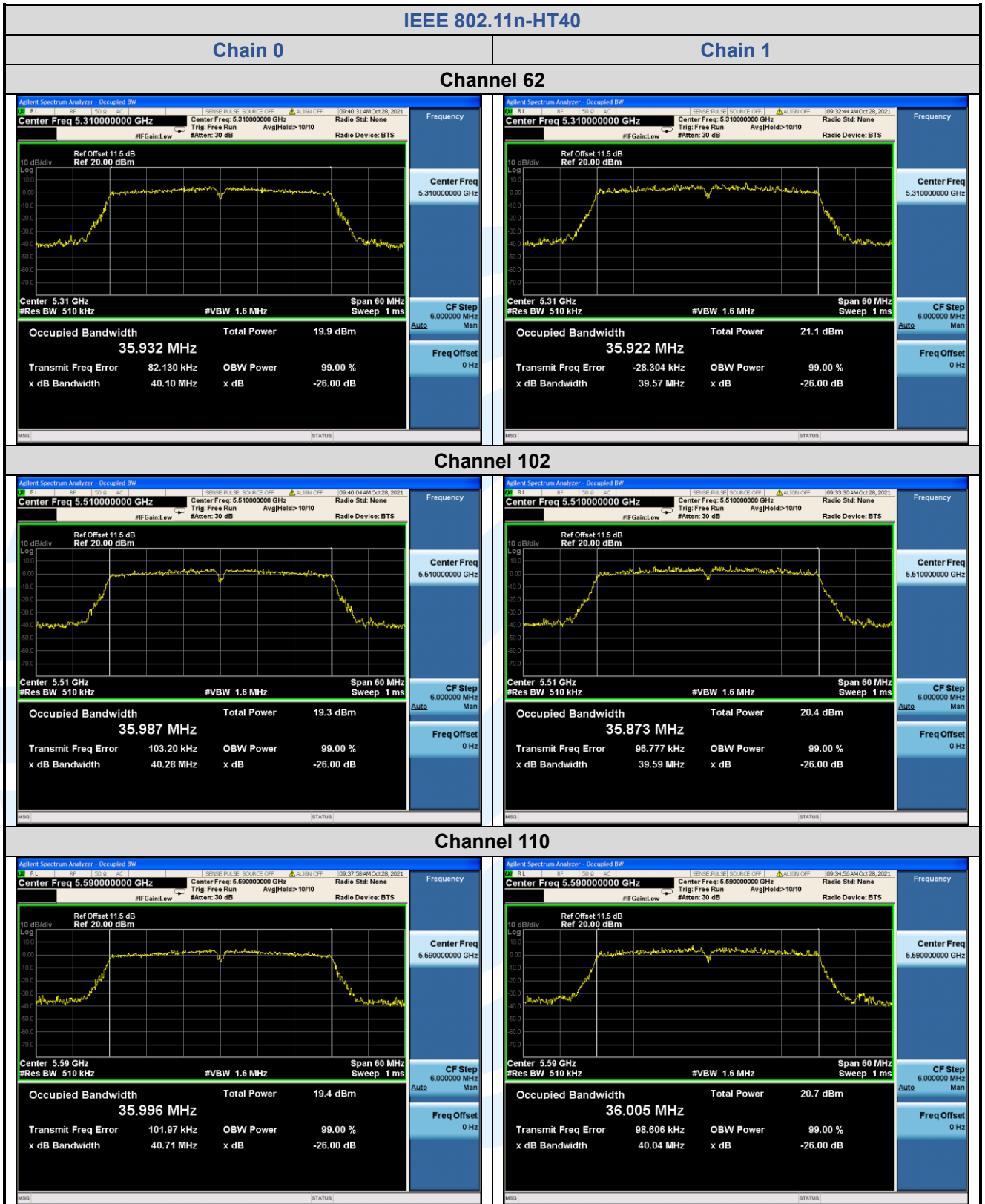
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UTTR-RF-FCCPART15.407-V1.1



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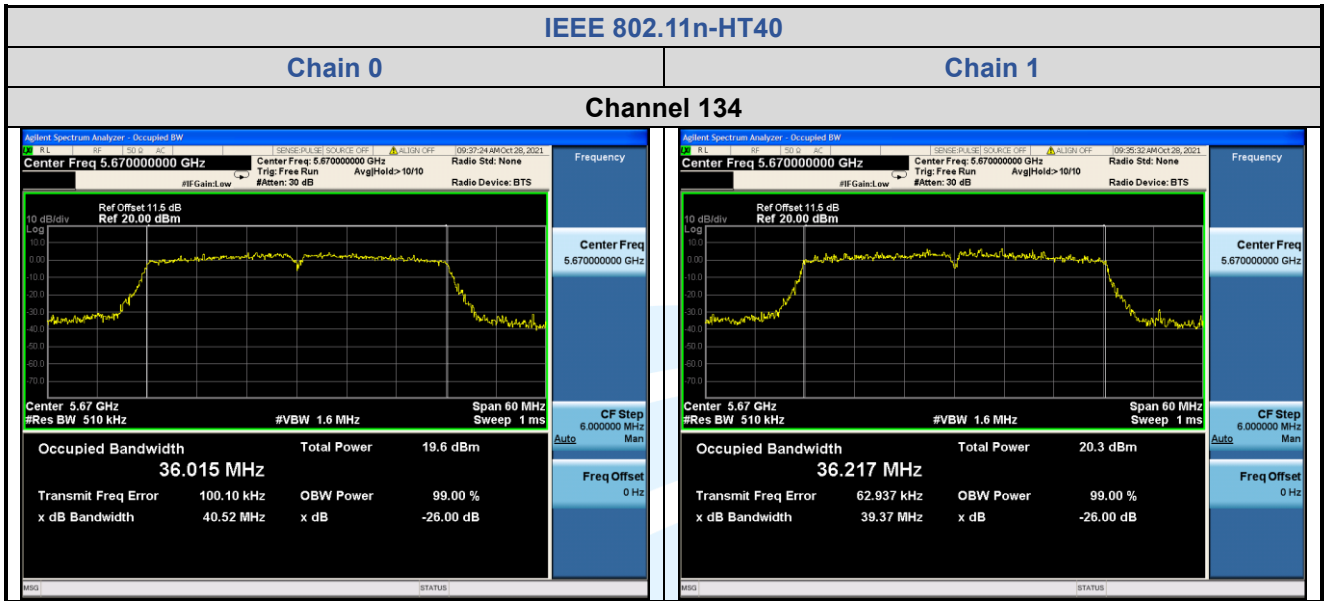
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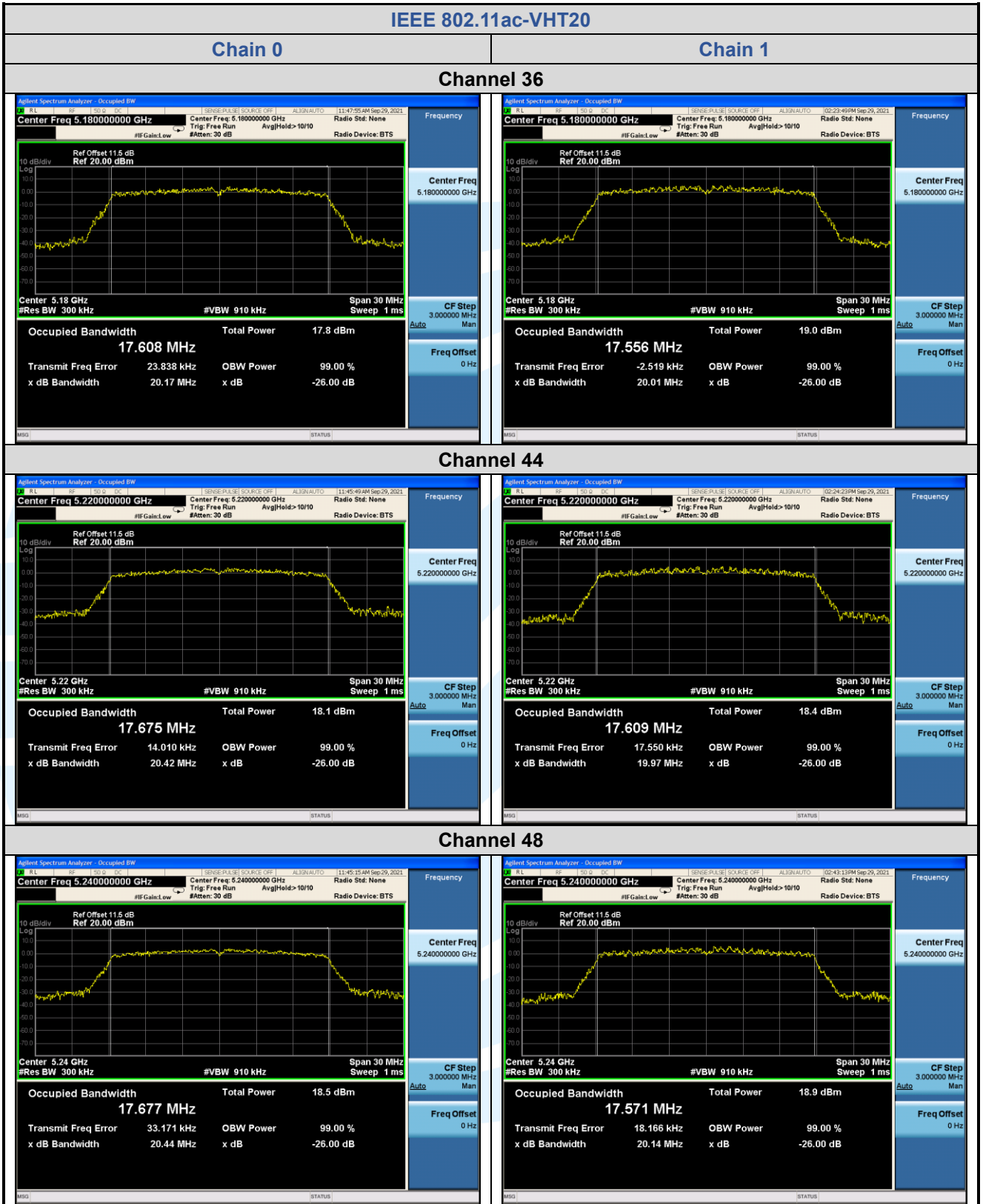
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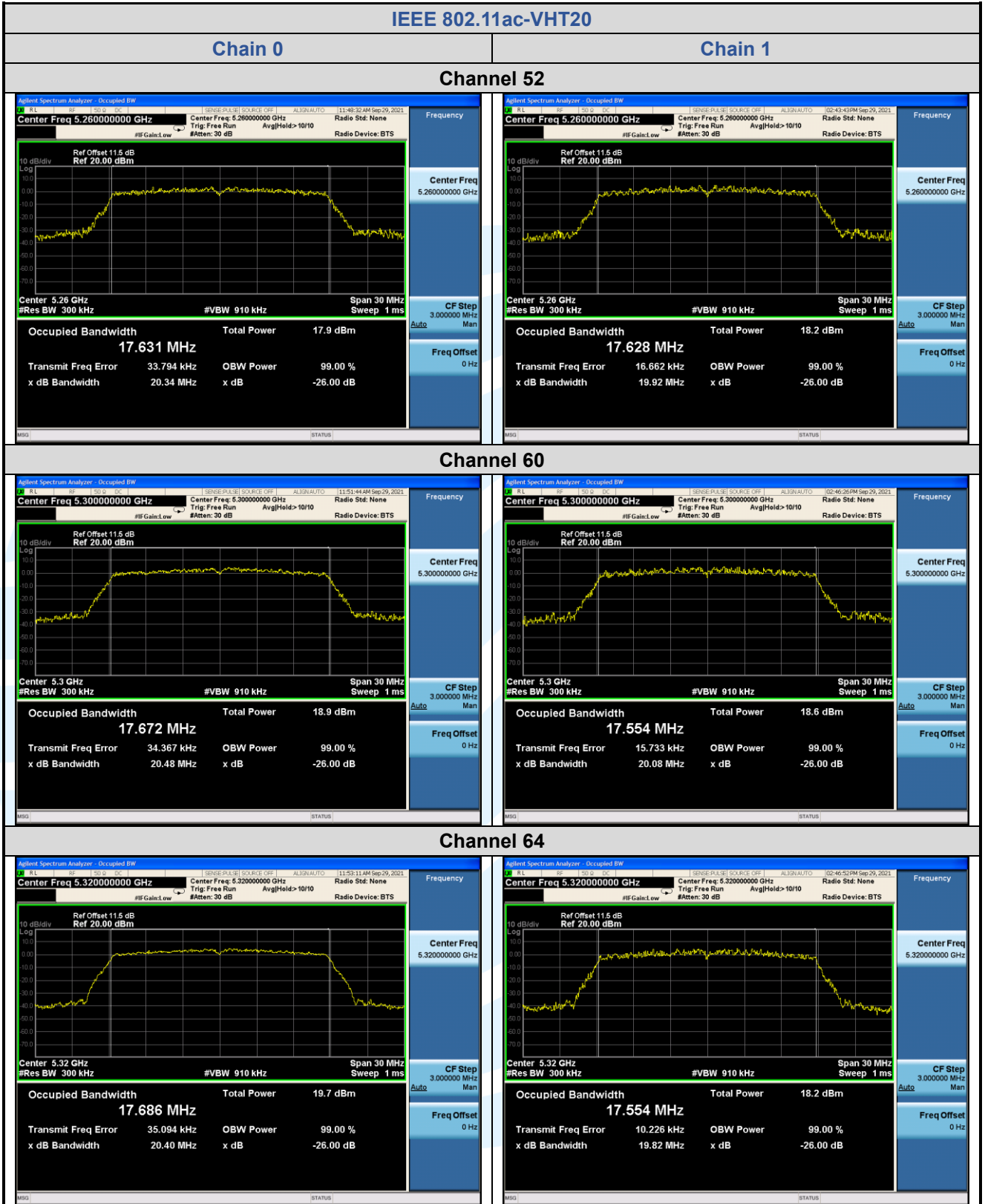
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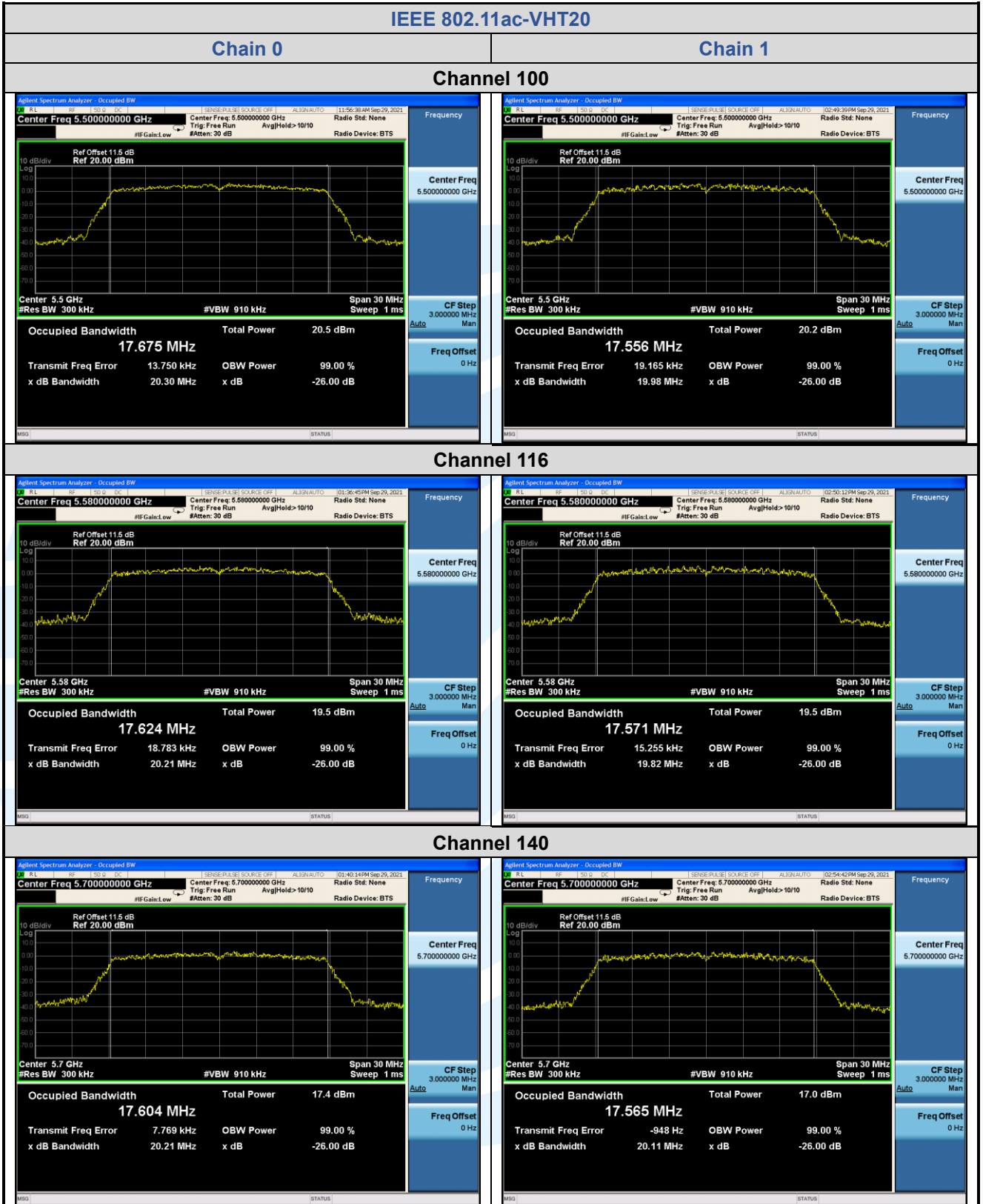
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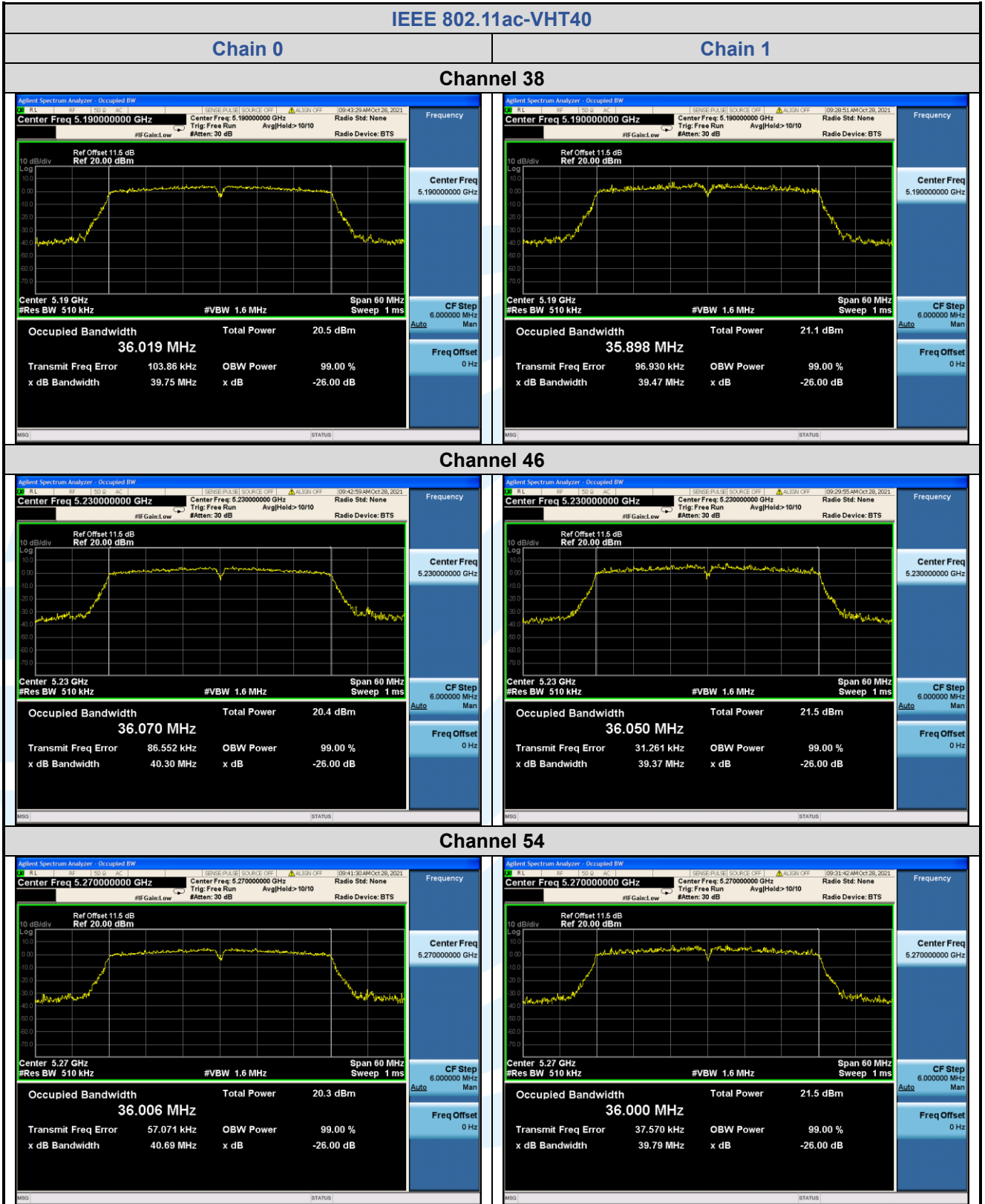
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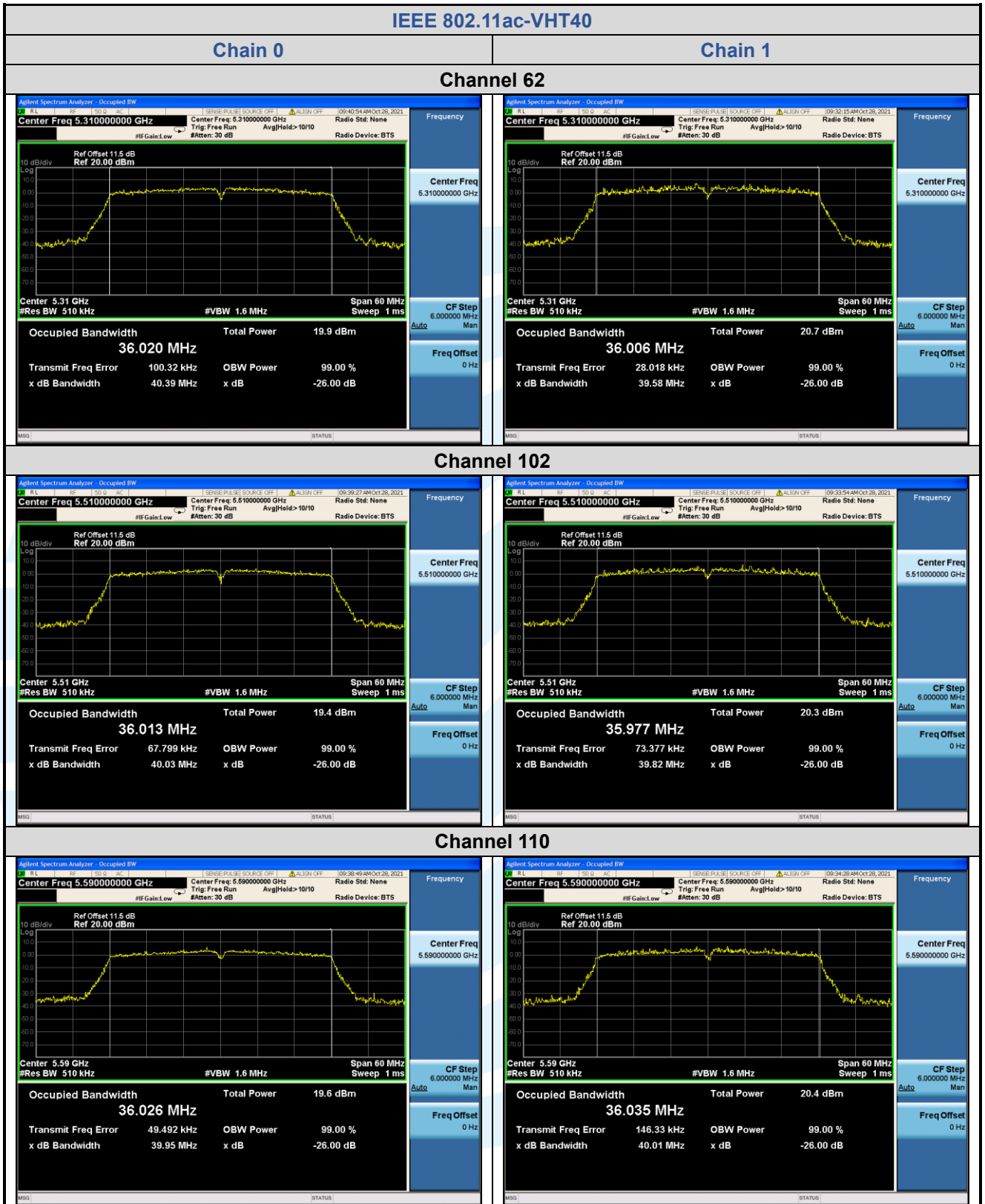
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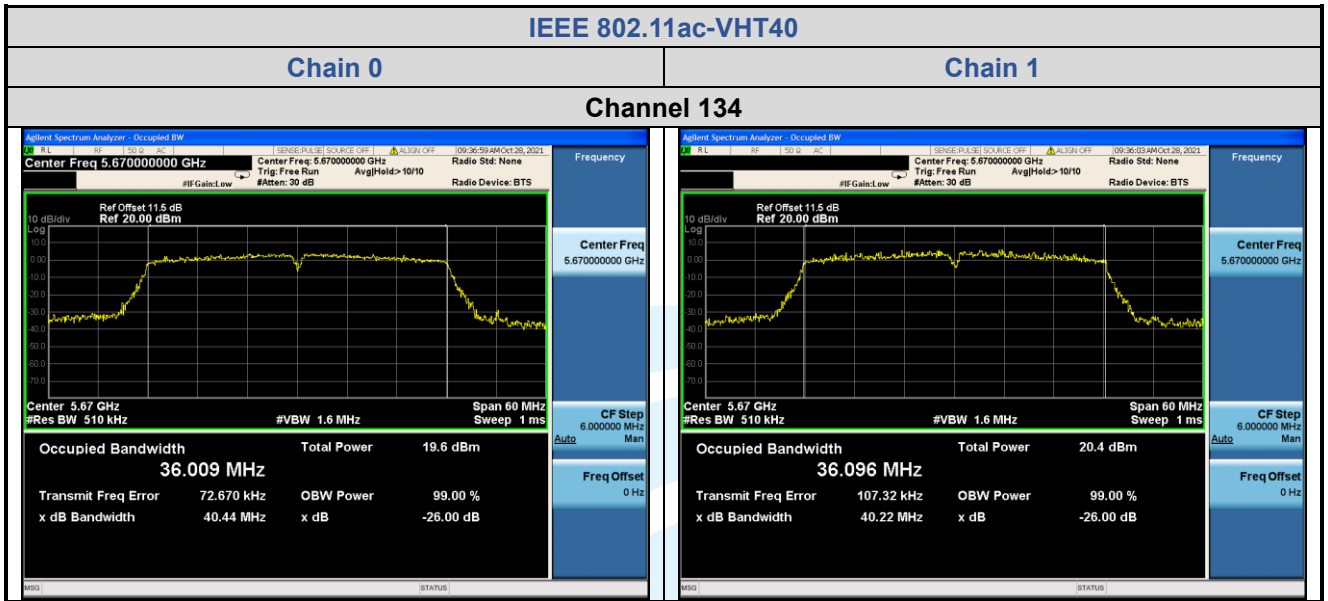
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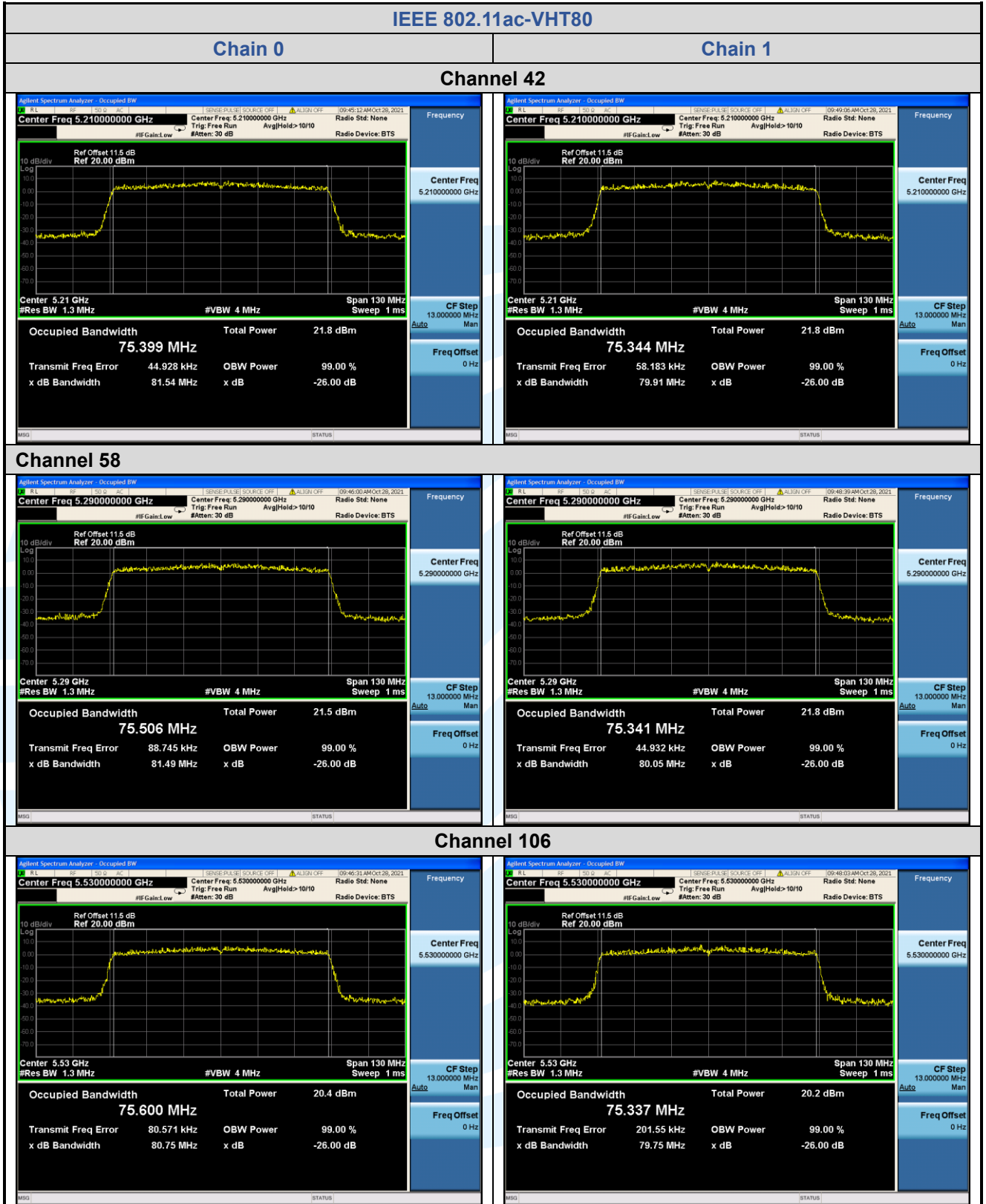
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5.46 DB BANDWIDTH

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) ≥ 3 * 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)		6 dB Bandwidth Limit	Pass / Fail
		Chain 0	Chain 1		
IEEE 802.11a	149 (5745)	16.39	12.44	> 500 kHz	Pass
	157 (5785)	13.85	16.38	> 500 kHz	Pass
	165 (5825)	16.32	15.08	> 500 kHz	Pass
IEEE 802.11n-HT20	149 (5745)	15.13	15.15	> 500 kHz	Pass
	157 (5785)	13.46	15.13	> 500 kHz	Pass
	165 (5825)	15.38	15.15	> 500 kHz	Pass
IEEE 802.11n-HT40	151 (5755)	30.22	33.91	> 500 kHz	Pass
	159 (5795)	32.72	35.1	> 500 kHz	Pass
IEEE 802.11ac-VHT20	149 (5745)	11.68	16.92	> 500 kHz	Pass
	157 (5785)	15.70	14.70	> 500 kHz	Pass
	165 (5825)	15.03	16.32	> 500 kHz	Pass
IEEE 802.11ac-VHT40	151 (5755)	35.13	35.20	> 500 kHz	Pass
	159 (5795)	31.49	33.94	> 500 kHz	Pass
IEEE 802.11ac-VHT80	155 (5775)	75.13	75.25	> 500 kHz	Pass