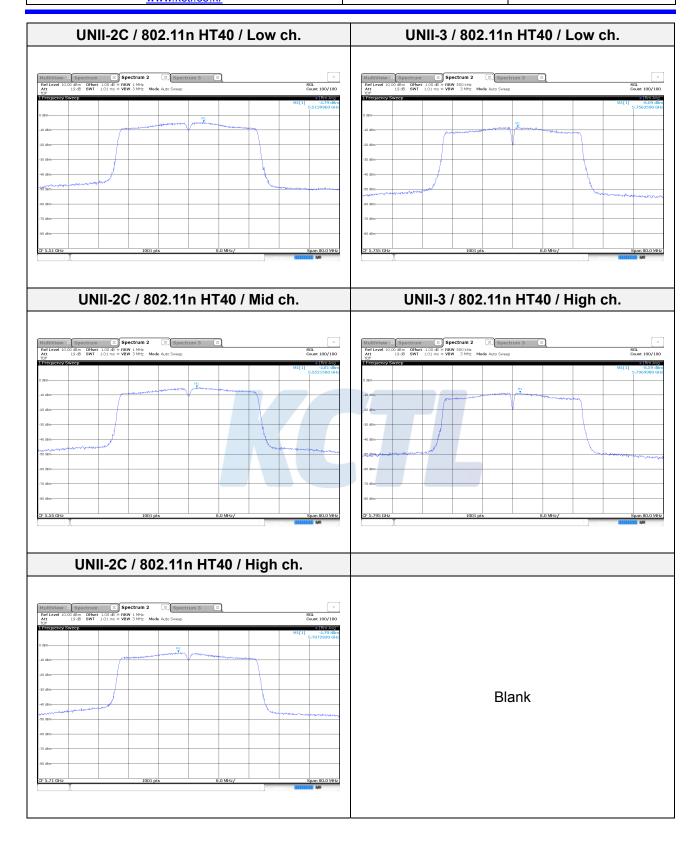
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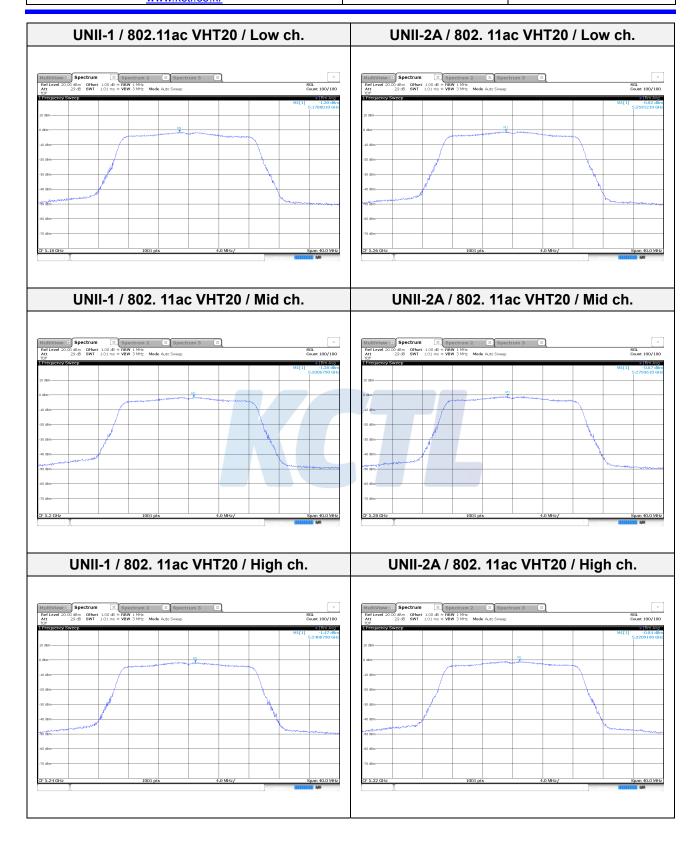
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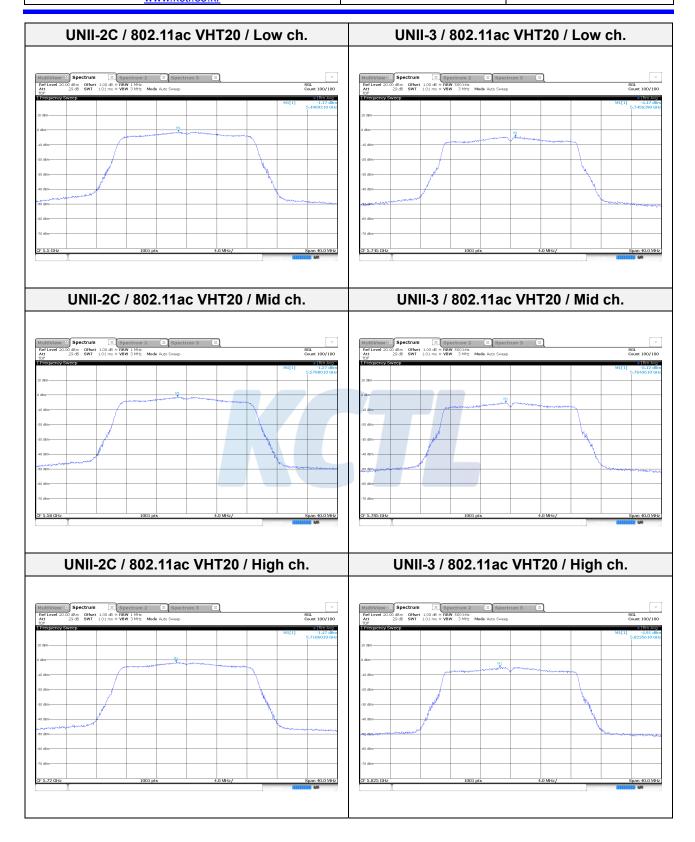
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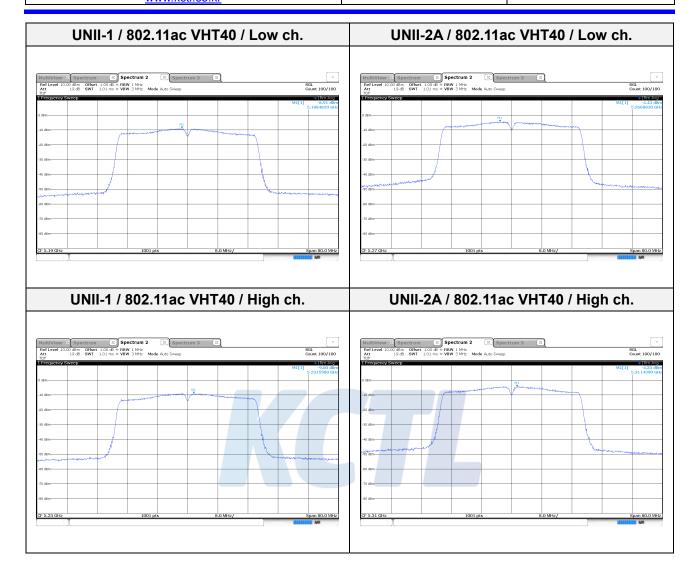
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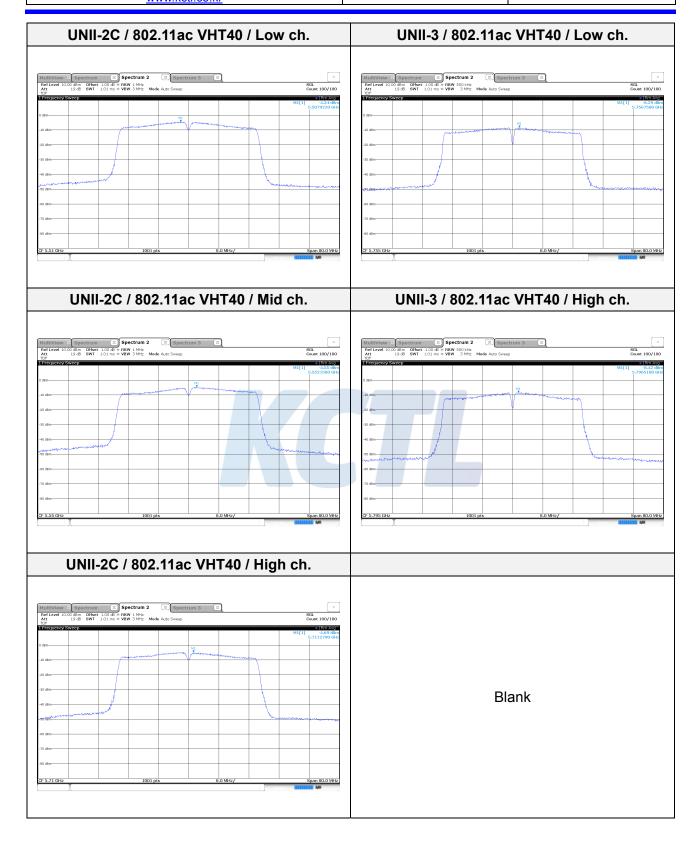
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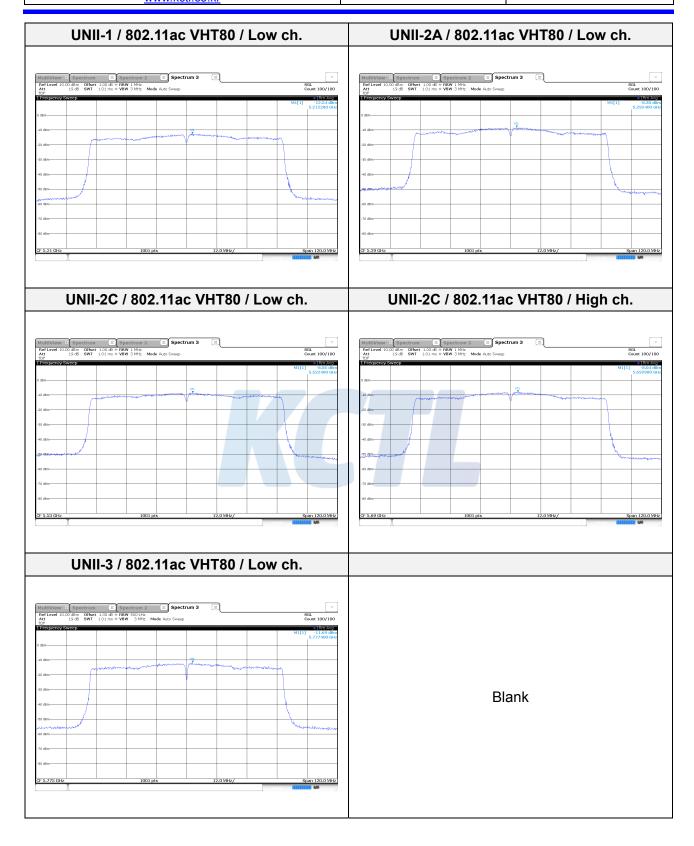
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7.3. 26 dB Bandwidth & 99% Occupied Bandwidth

Test setup		_	
EUT	Attenuator		Spectrum analyzer

Limit

N/A

Test procedure

ANSI C63.10-2013 Section 12.4 KDB 789033 D02 v02r01 - Section C.1 (26dBbandwidth) KDB 789033 D02 v02r01 - Section D (99% bandwidth)

Test settings

1. 26 dB Bandwidth

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. 99% Occupied Bandwidth

- a. Set center frequency to the nominal EUT channel center frequency.
- b. Set span = 1.5 times to 5.0 times the OBW.
- c. Set RBW = 1% to 5% of the OBW
- d. Set VBW ≥ 3 x RBW
- e. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f. Use the 99% power bandwidth function of the instrument (if available).
- g. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Notes:

1. 1) means Band-crossing channels.

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Test results

26 dB bandwidth

Test mode	Band	Frequency(쌘)	Measured Bandwidth (畑)
		5 180	20.83
	UNII-1	5 200	21.17
		5 240	21.12
	UNII-2A	5 260	21.17
802.11a		5 280	20.68
		5 320	20.84
	UNII-2C	5 500	20.98
		5 580	20.72
		5 7201)	15.50
	UNII-1	5 180	21.04
		5 200	21.46
		5 240	21.16
	UNII-2A	5 260	21.37
802.11n HT20		5 280	21.42
		5 320	21.19
	UNII-2C	5 500	21.25
		5 580	21.19
		5 7201)	15.90
802.11n HT40	UNII-1	5 190	39.58
		5 230	39.55
	UNII-2A	5 270	39.60
		5 310	39.51
	UNII-2C	5 510	39.48
		5 550	39.57
		5 7101)	35.01

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Test mode	Band	Frequency(艦)	Measured Bandwidth (脏)
	UNII-1	5 180	21.17
		5 200	21.03
		5 240	21.26
	UNII-2A	5 260	21.32
802.11ac VHT20		5 280	21.28
		5 320	21.04
	UNII-2C	5 500	21.22
		5 580	21.14
		5 7201)	15.68
	UNII-1	5 190	39.37
		5 230	39.51
	LINII OA	5 270	39.51
802.11ac VHT40	UNII-2A	5 310	39.68
		5 510	39.54
	UNII-2C	5 590	39.52
		5 7101)	35.03
	UNII-1	5 210	81.38
802.11ac	UNII-2A	5 290	81.26
VHT80	UNII-2C	5 530	81.38
		5 6901)	75.56

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99% bandwidth

Test mode	Band	Frequency(쌘)	Measured Bandwidth (쌘)
	UNII-1	5 180	16.64
		5 200	16.70
		5 240	16.74
	UNII-2A	5 260	16.66
		5 280	16.76
802.11a		5 320	16.76
602.11a	UNII-2C	5 500	16.55
		5 580	16.78
		5 720	16.64
	UNII-3	5 745	16.69
		5 785	16.68
		5 825	16.73
		5 180	17.88
	UNII-1	5 200	17.80
		5 240	17.78
	UNII-2A	5 260	17.76
		5 280	17.84
802.11n		5 320	17.79
HT20	UNII-2C	5 500	17.75
		5 580	17.79
		5 720	17.69
	UNII-3	5 745	17.78
		5 785	17.77
		5 825	17.98
	UNII-1	5 190	36.18
		5 230	36.23
	LINILOA	5 270	36.20
	UNII-2A	5 310	36.22
802.11n HT40	UNII-2C	5 510	36.19
-		5 590	36.21
		5 710	36.25
	UNII-3	5 755	36.21
		5 795	36.17

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Test mode	Band	Frequency(胚)	Measured Bandwidth (舱)
	UNII-1	5 180	17.75
		5 200	17.77
		5 240	17.79
	UNII-2A	5 260	17.81
		5 280	17.72
802.11ac		5 320	17.84
VHT20	UNII-2C	5 500	17.84
		5 580	17.71
		5 720	17.91
	UNII-3	5 745	17.87
		5 785	17.81
		5 825	17.76
	UNII-1	5 190	36.17
		5 230	36.19
	UNII-2A	5 270	36.20
		5 310	36.20
802.11ac VHT40	UNII-2C	5 510	36.17
		5 590	36.18
		5 710	36.25
	UNII-3	5 755	36.22
		5 795	36.16
802.11ac VHT80	UNII-1	5 210	75.58
	UNII-2A	5 290	75.52
	UNII-2C	5 530	75.56
		5 690	75.40
	UNII-3	5 775	75.43

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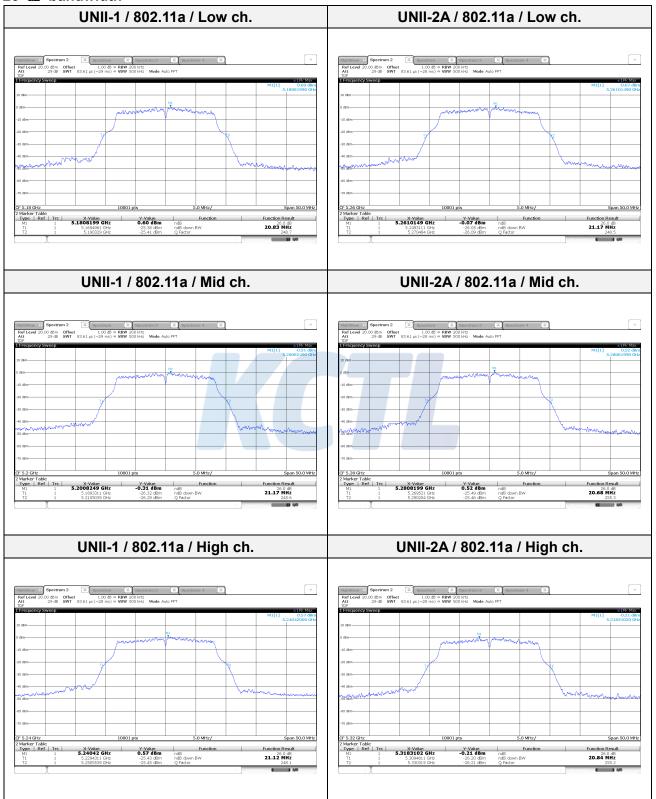
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26 dB bandwidth



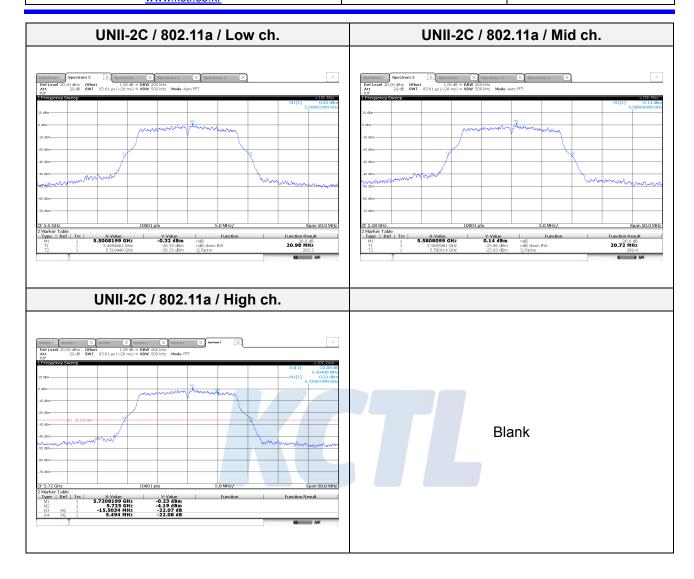
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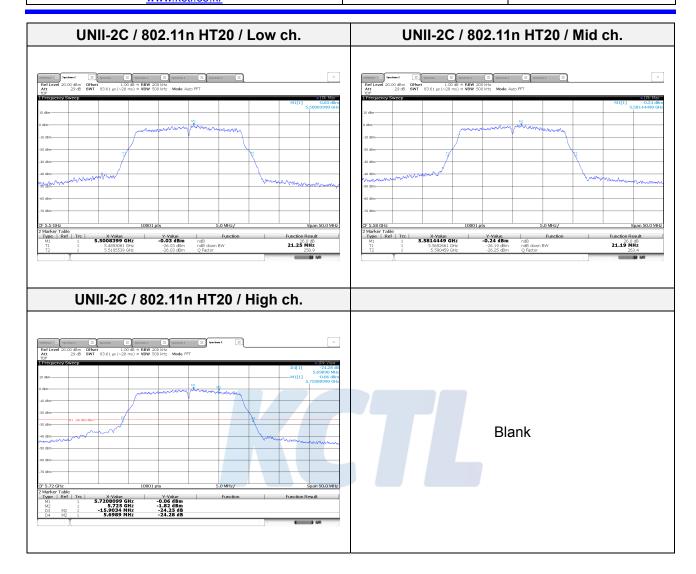
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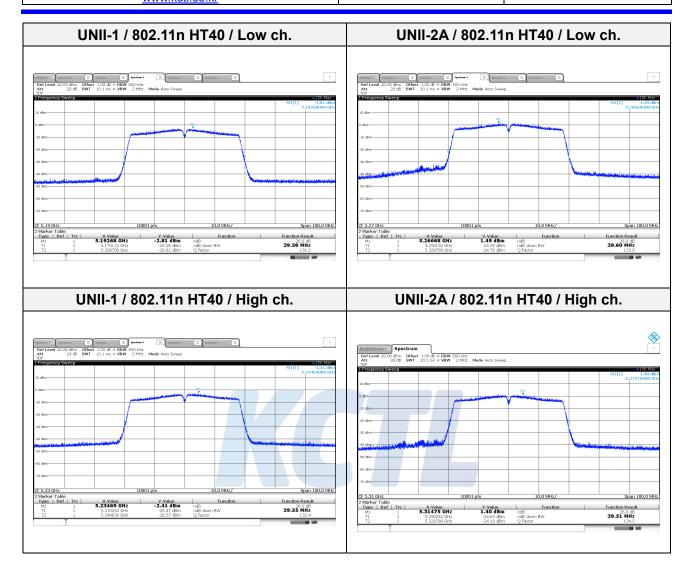
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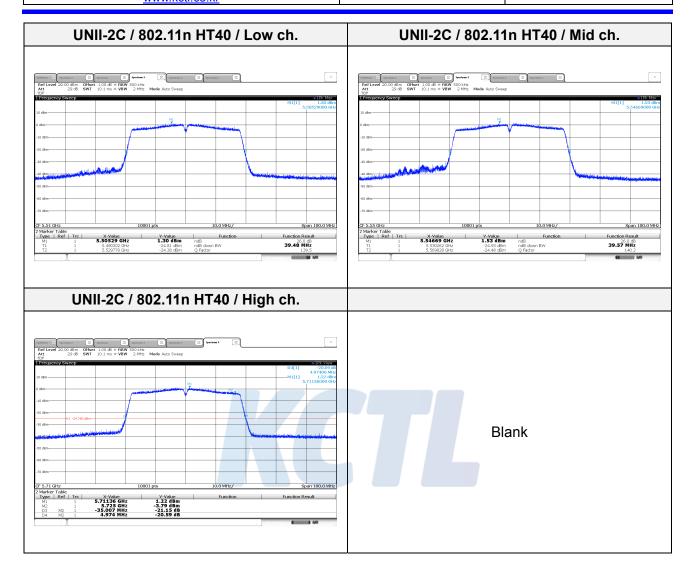
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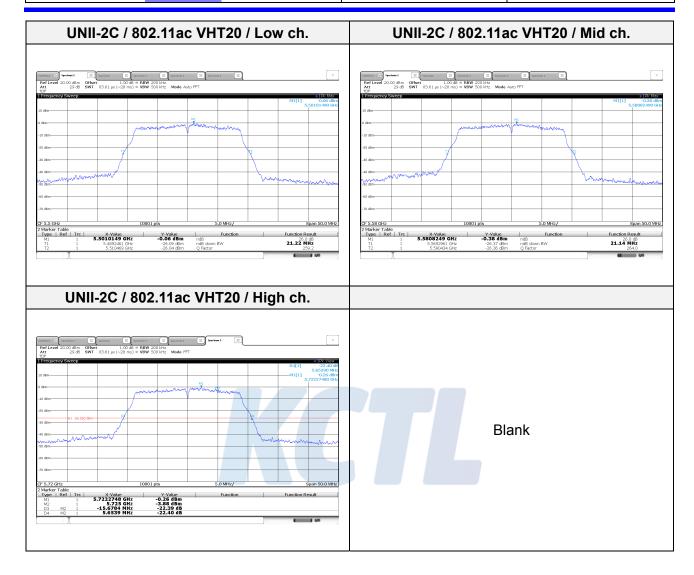
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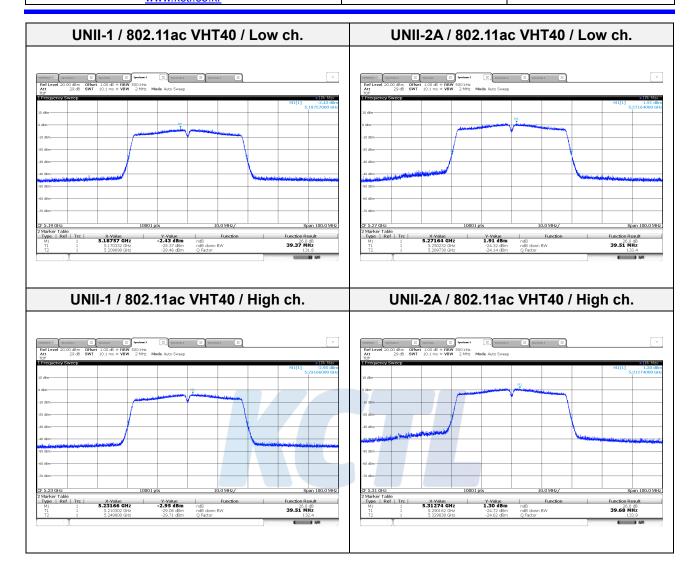
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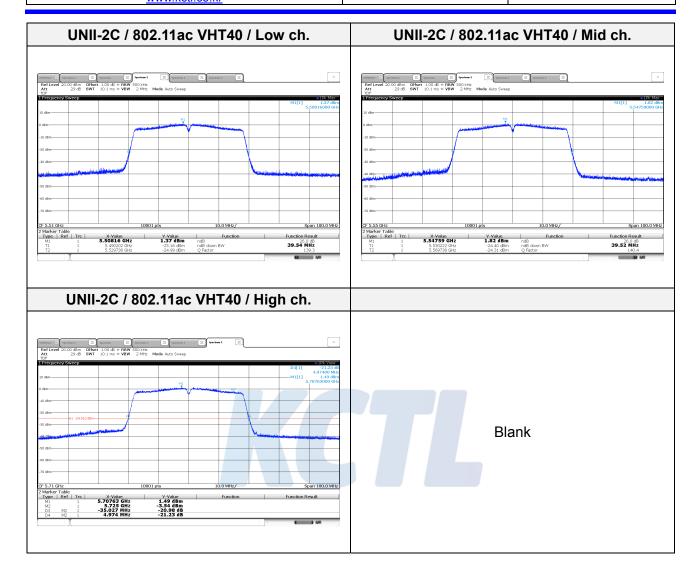
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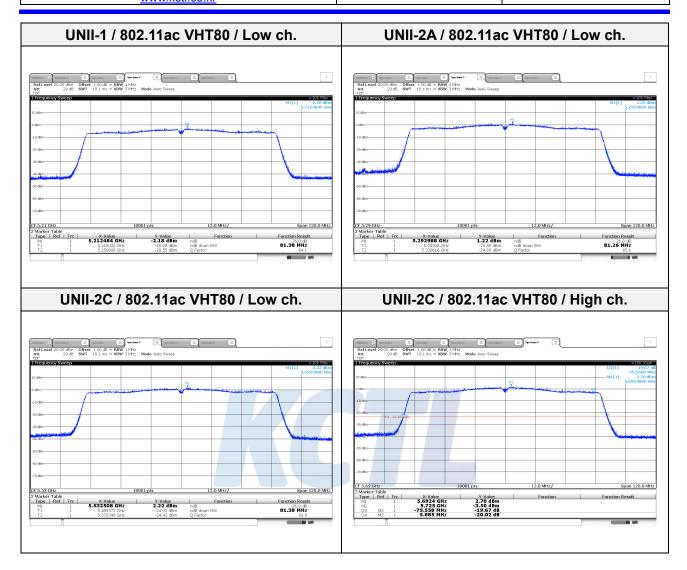
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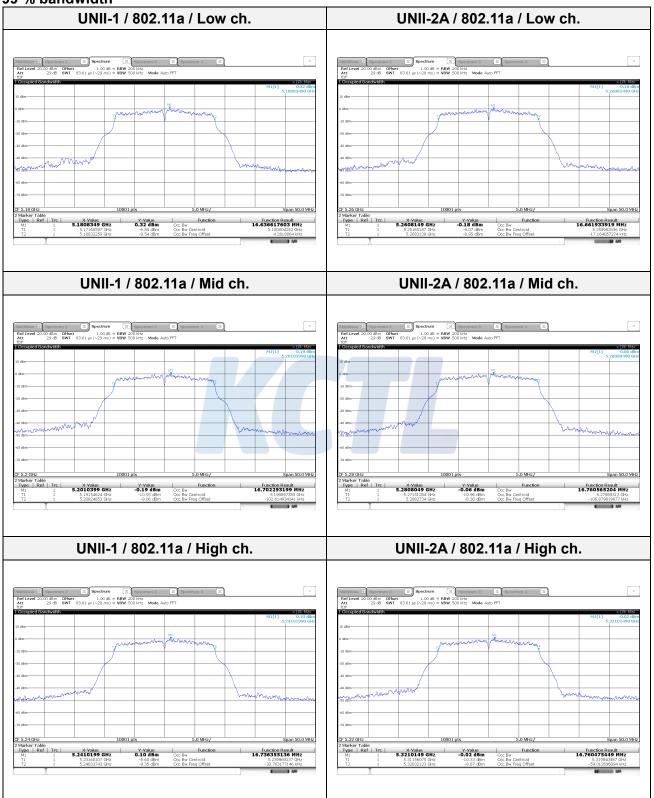
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99 % bandwidth



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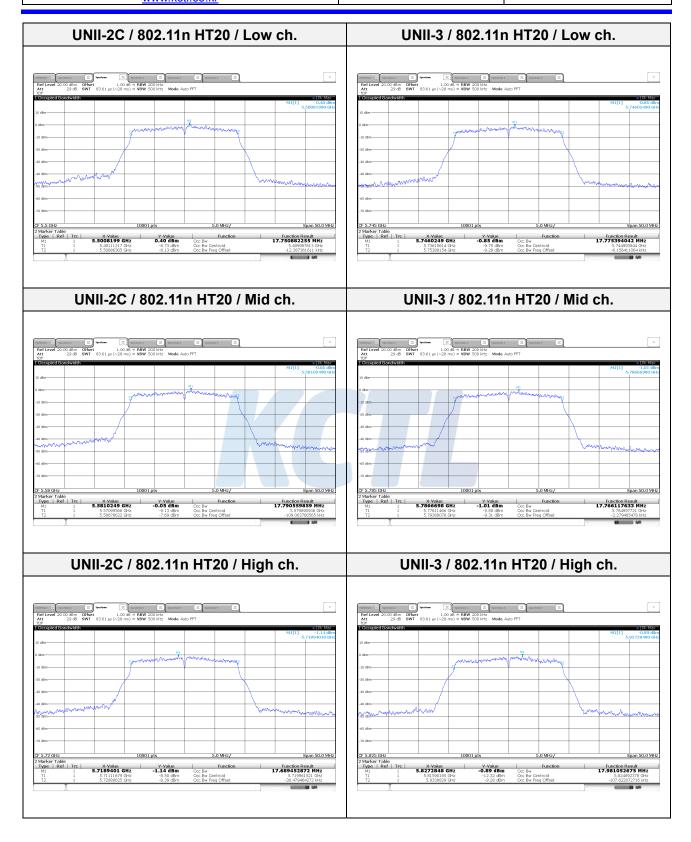
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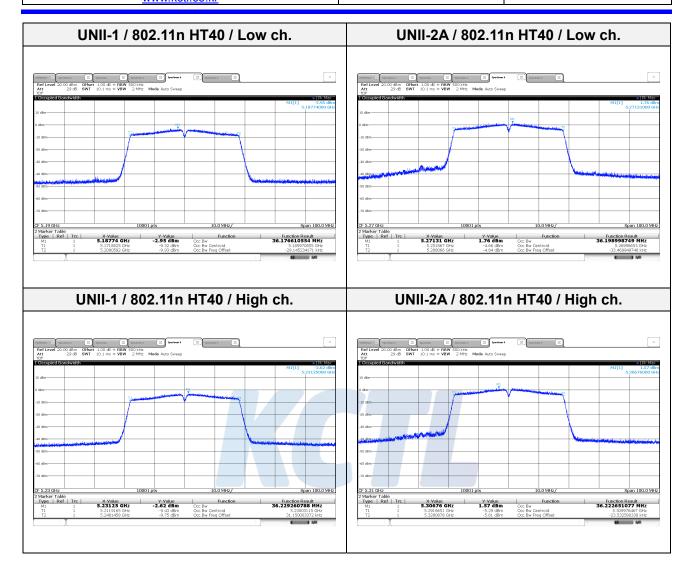
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