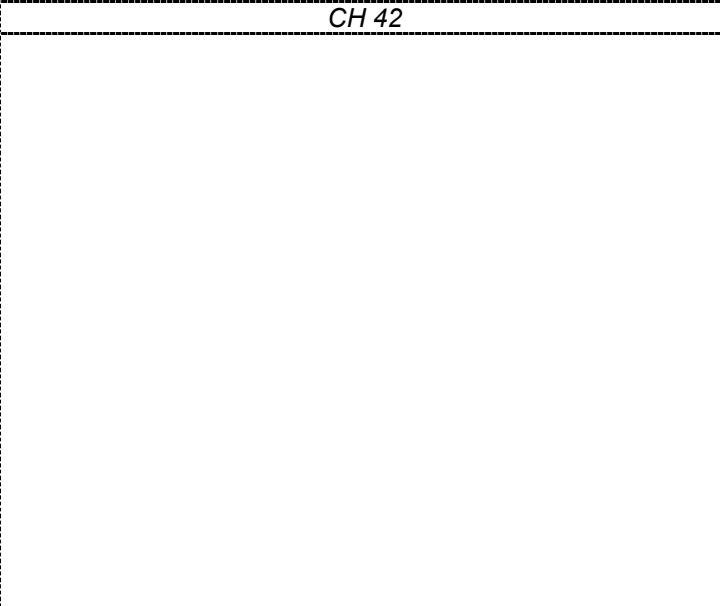
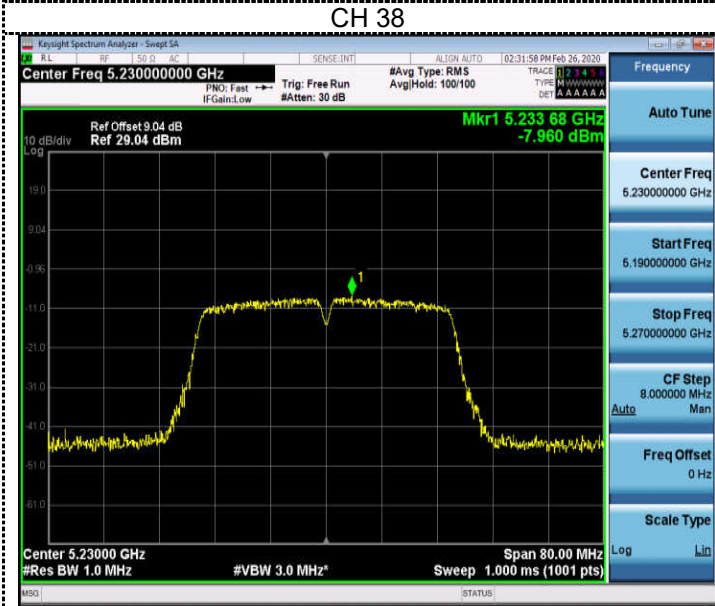
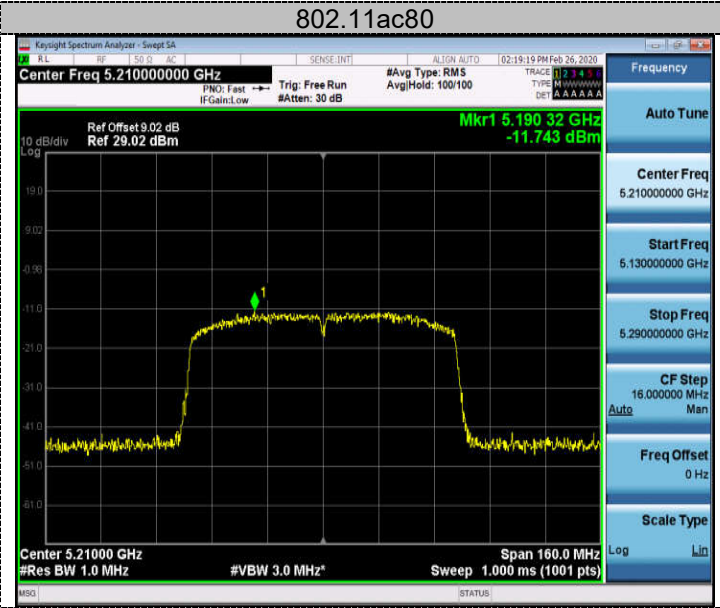
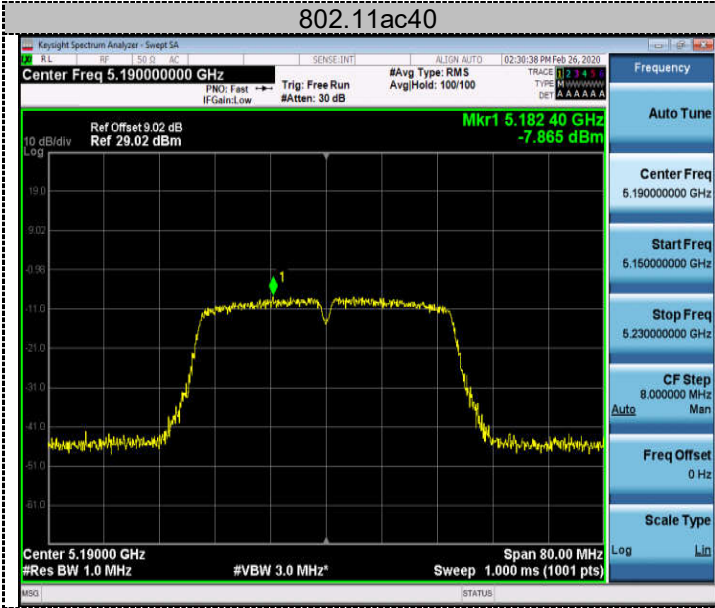
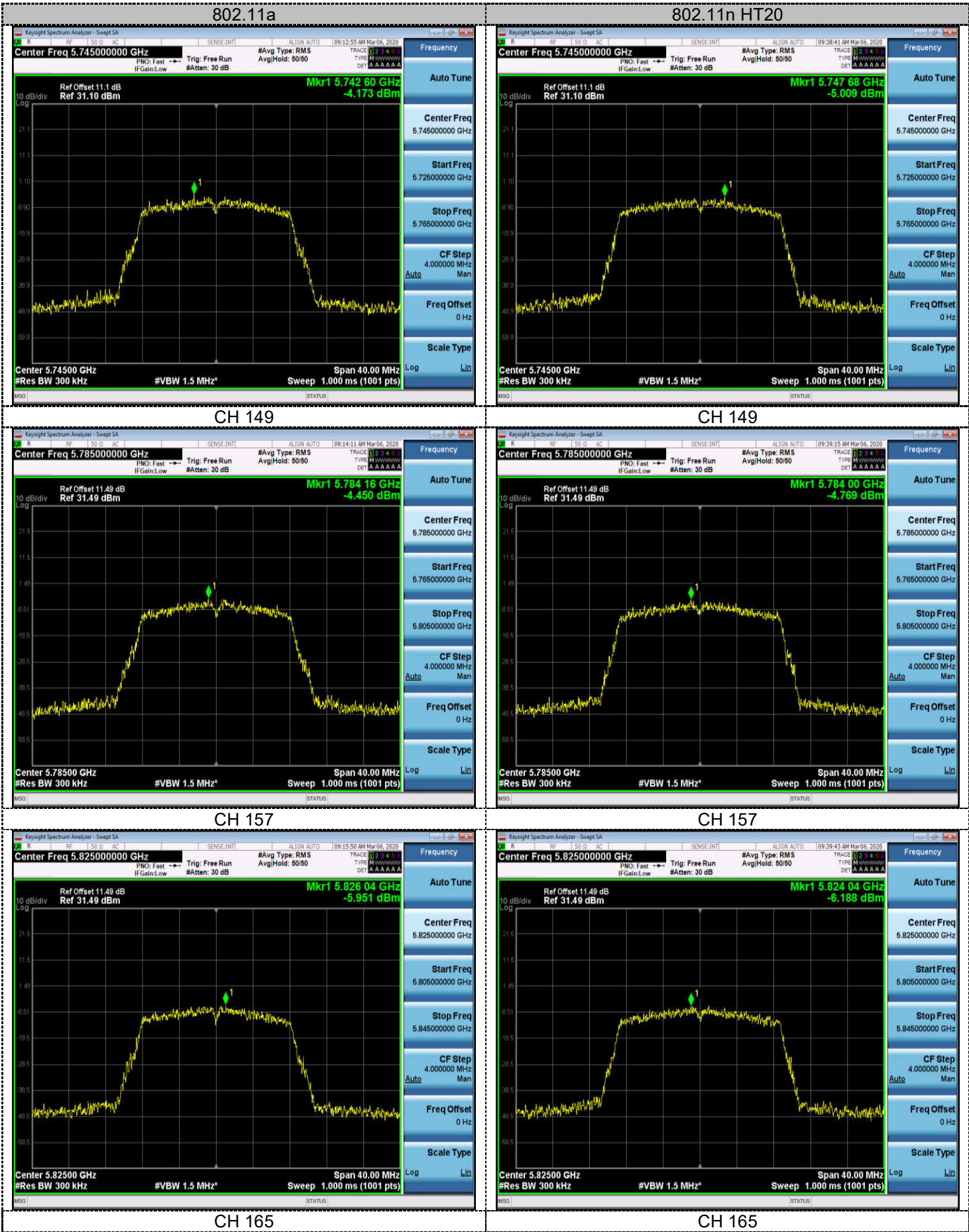




5725-5850MHz:



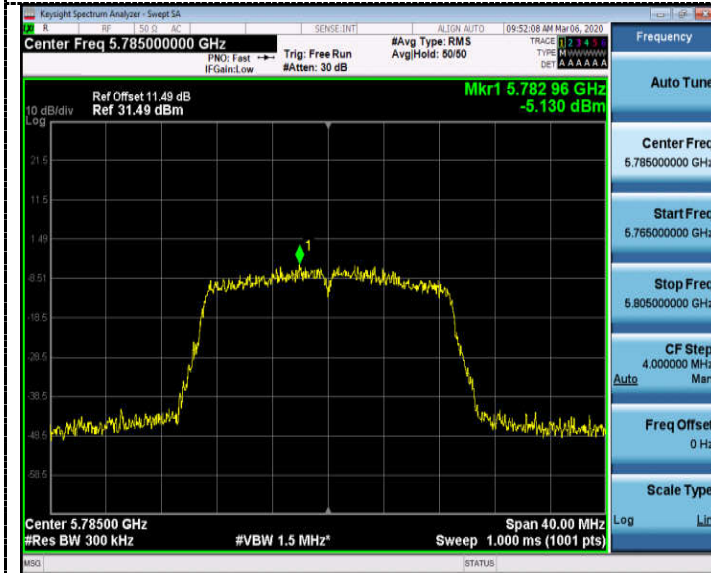
802.11ac20



802.11n HT40



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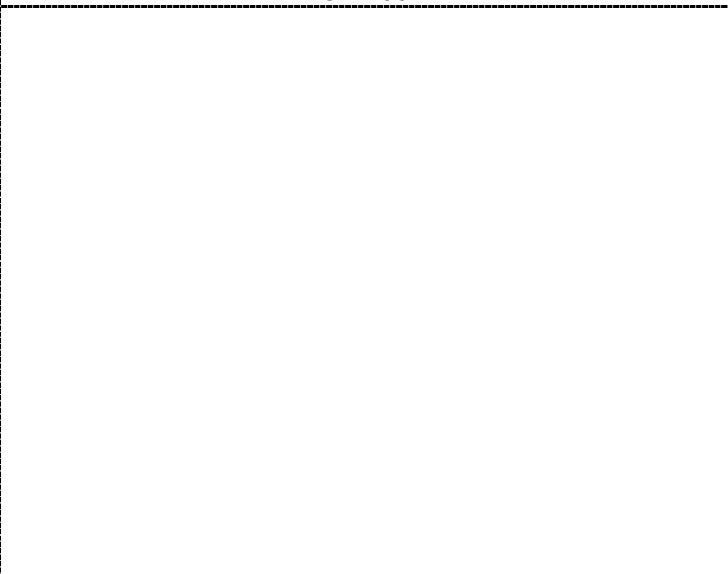
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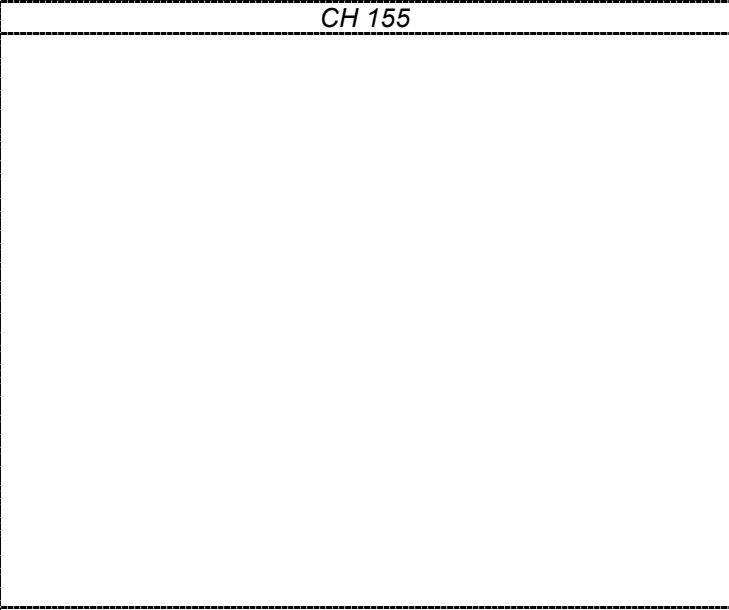
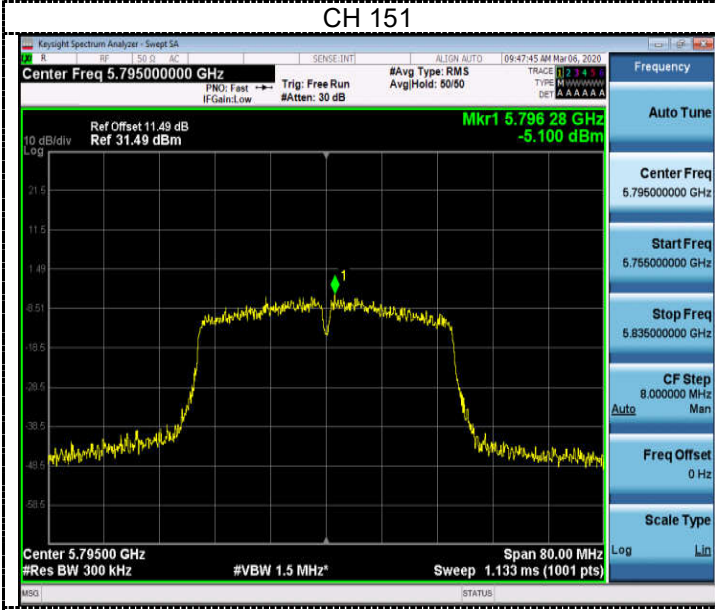
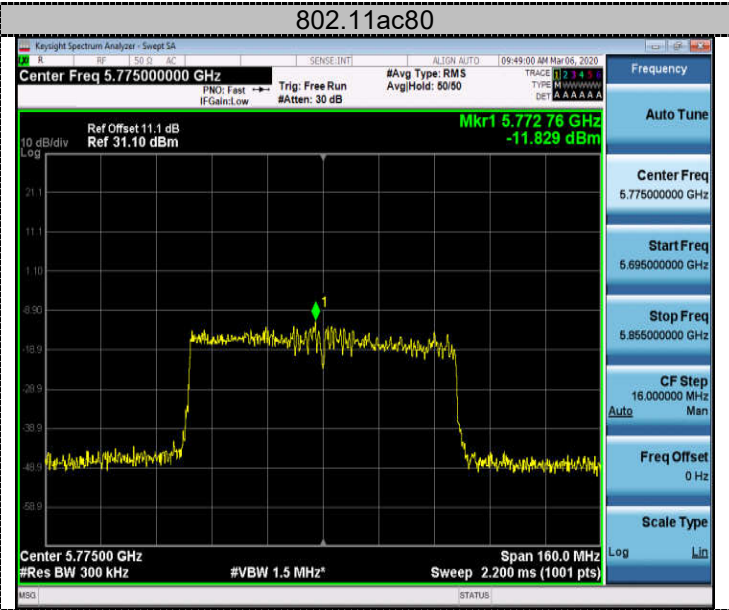
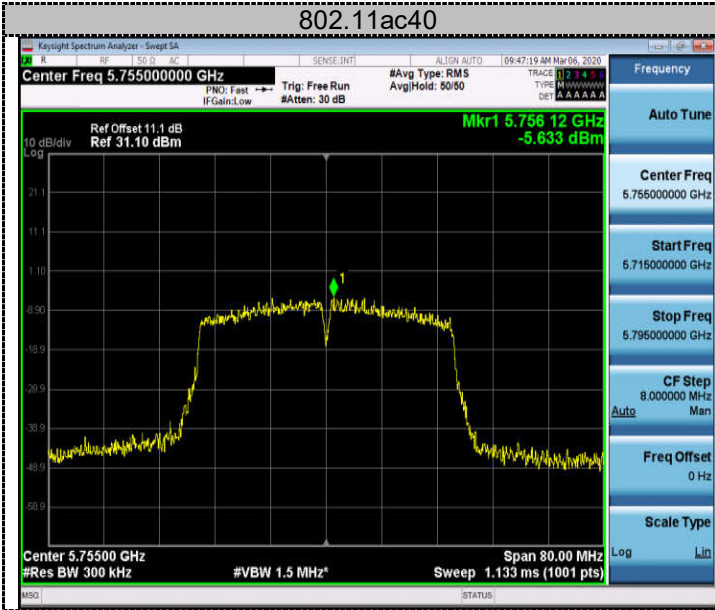
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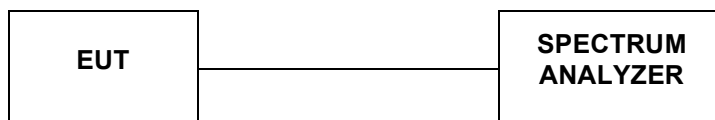


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4.6. 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

According to KDB789033 D02 General UNII Test Procedures New Rules v01 for one of the following procedures may be used for section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a. Set RBW = 100 kHz.
- b. Set the video bandwidth (VBW) $\geq 3 \times$ 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 automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

LIMIT

For Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz

TEST RESULTS

Antenna 0:

Type	Channel	99%Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	149	16.661	16.560	≥500	Pass
	157	16.751	16.560		
	165	16.753	16.560		
802.11nHT20	149	17.753	17.720	≥500	Pass
	157	17.783	17.720		
	165	17.684	17.720		
802.11ac20	149	17.727	17.720	≥500	Pass
	157	17.676	17.720		
	165	17.720	17.720		
802.11n40	151	36.192	36.480	≥500	Pass
	159	35.977	36.560		
802.11ac40	151	36.148	36.480	≥500	Pass
	159	35.935	36.560		
802.11ac80	155	75.388	74.880	≥500	Pass

Antenna 1:

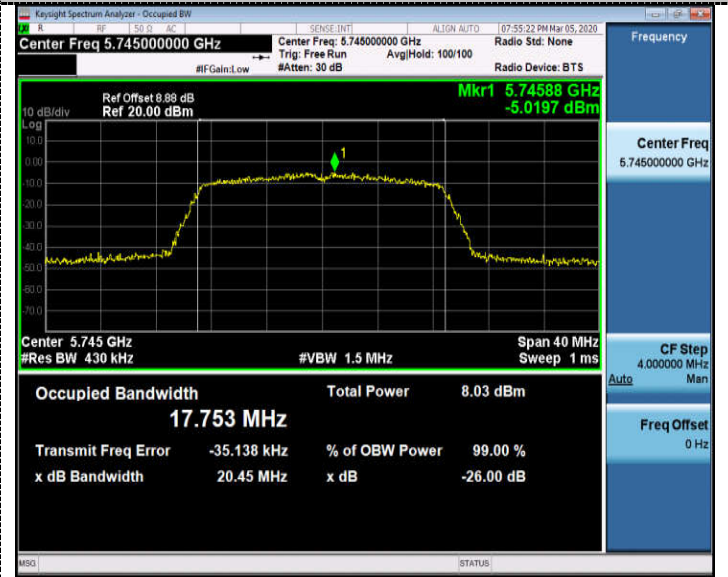
Type	Channel	99%Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	149	16.807	16.560	≥500	Pass
	157	16.723	16.560		
	165	16.693	16.560		
802.11nHT20	149	17.713	17.760	≥500	Pass
	157	17.701	17.720		
	165	17.727	17.720		
802.11ac20	149	17.730	17.720	≥500	Pass
	157	17.699	17.720		
	165	17.756	17.760		
802.11n40	151	36.057	36.480	≥500	Pass
	159	36.005	36.560		
802.11ac40	151	36.181	36.480	≥500	Pass
	159	36.012	36.560		
802.11ac80	155	75.728	74.880	≥500	Pass

Antenna 0:

99%Bandwidth

802.11a

802.11n HT20



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99%Bandwidth

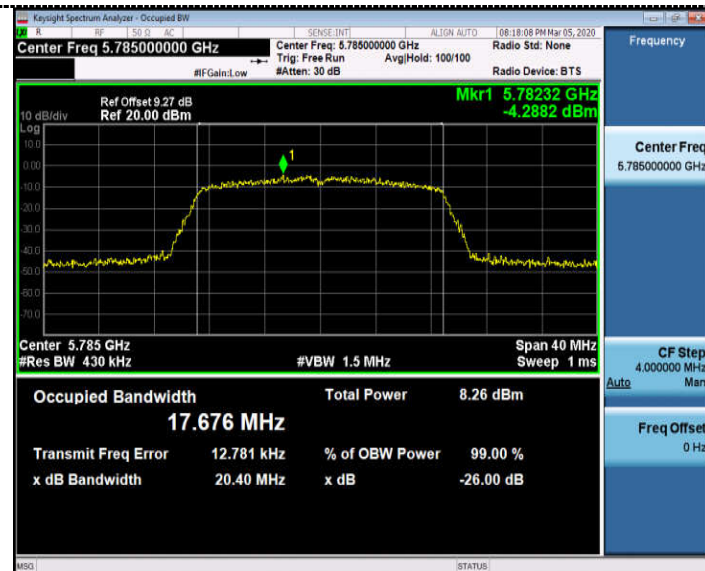
802.11ac20



802.11n HT40



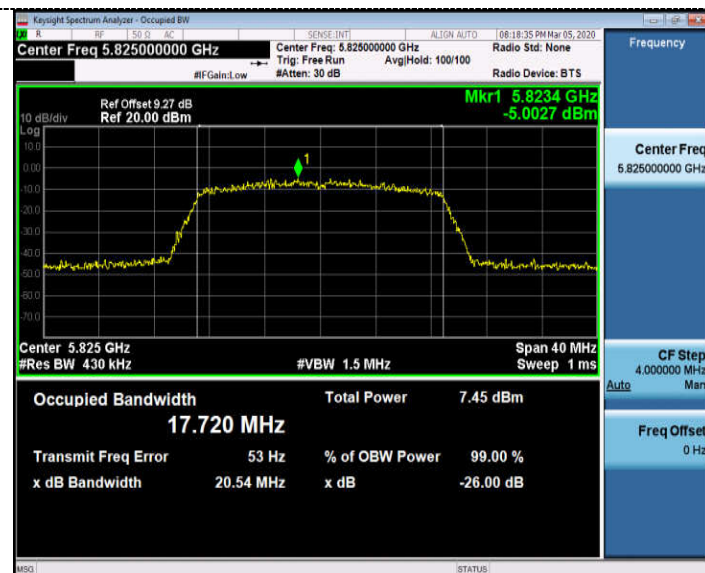
CH149



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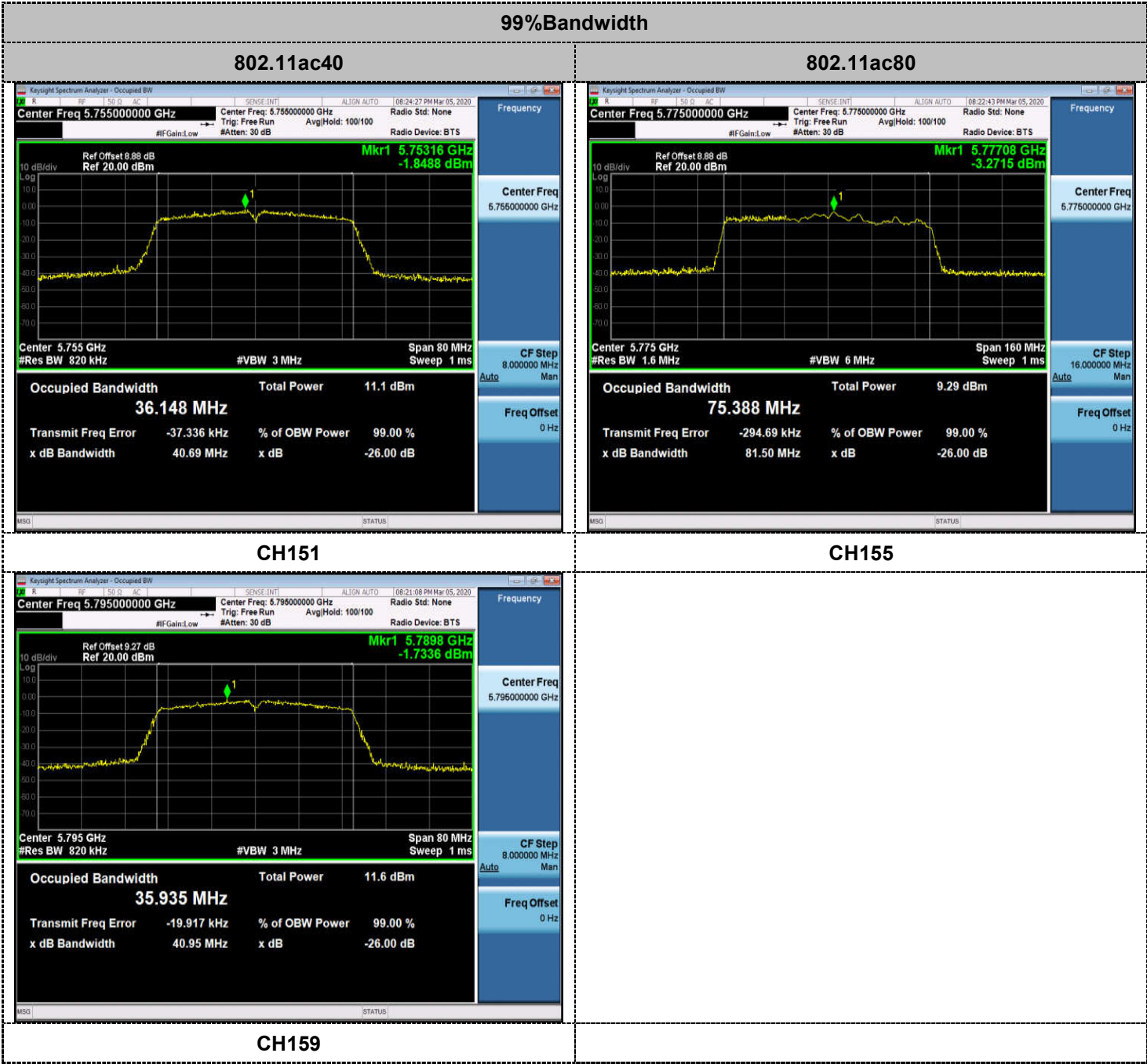
CH157



CH159



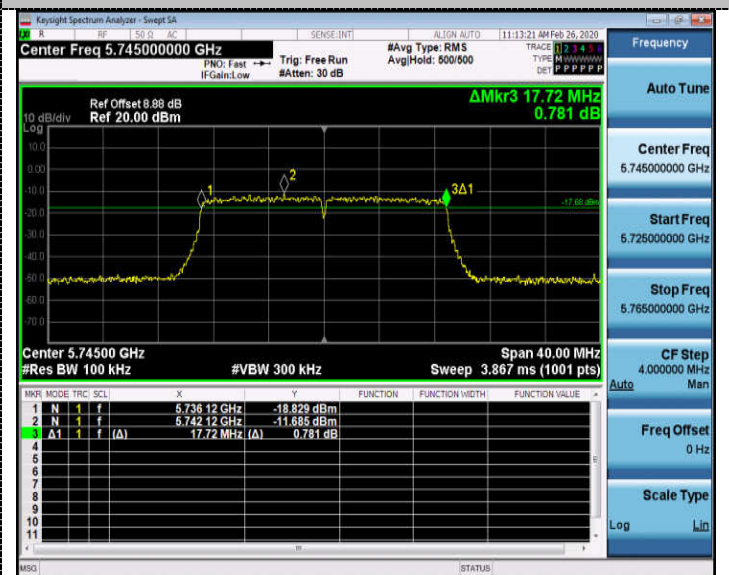
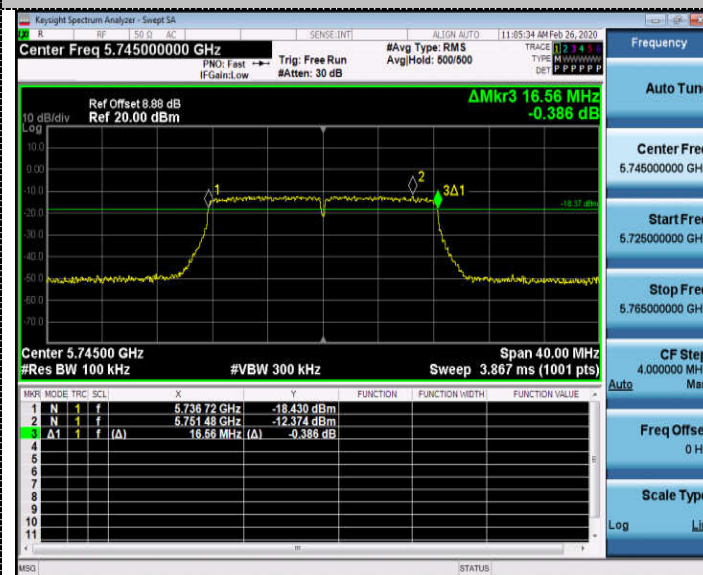
CH165



6dB Bandwidth

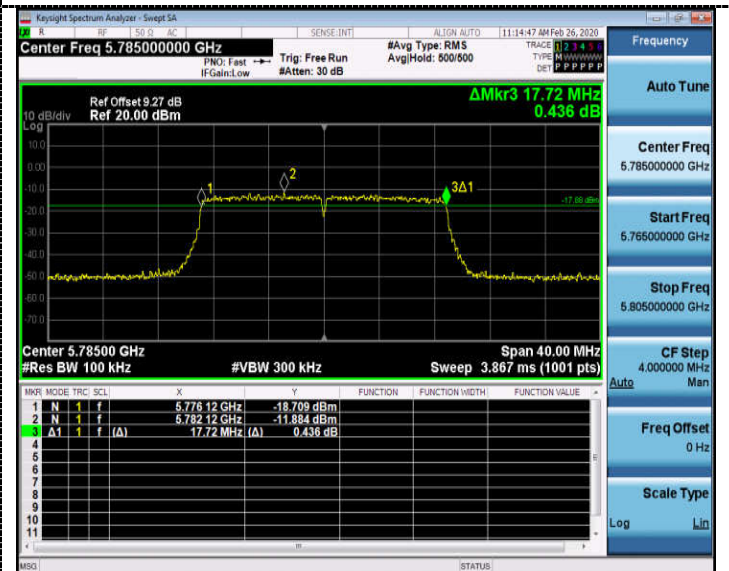
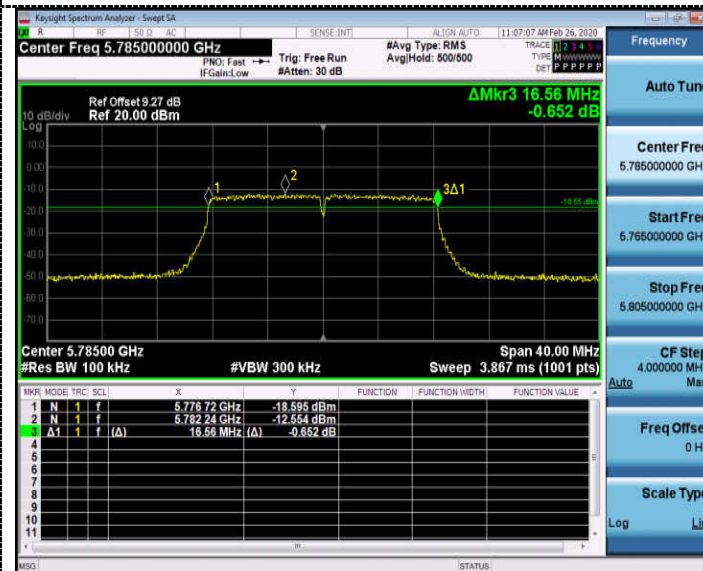
802.11a

802.11n HT20



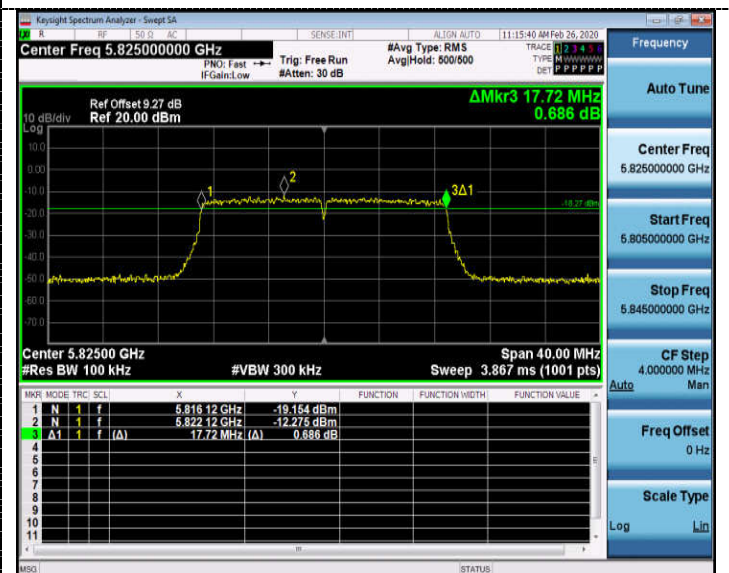
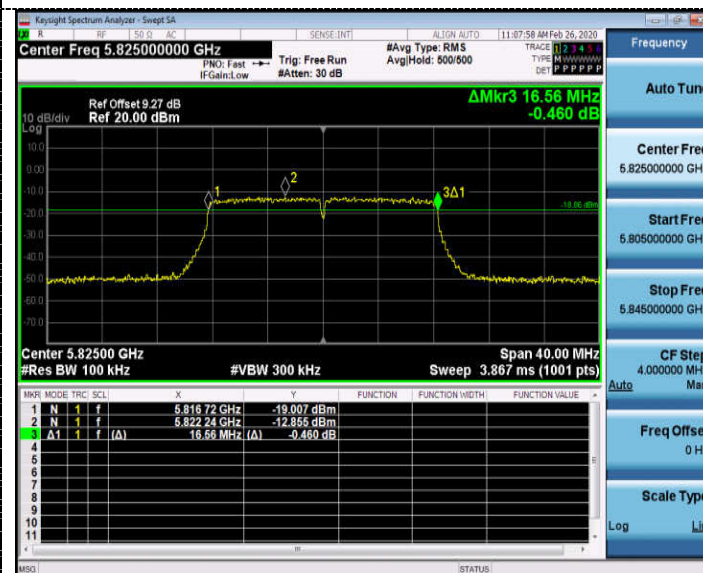
CH149

CH149



CH157

CH157



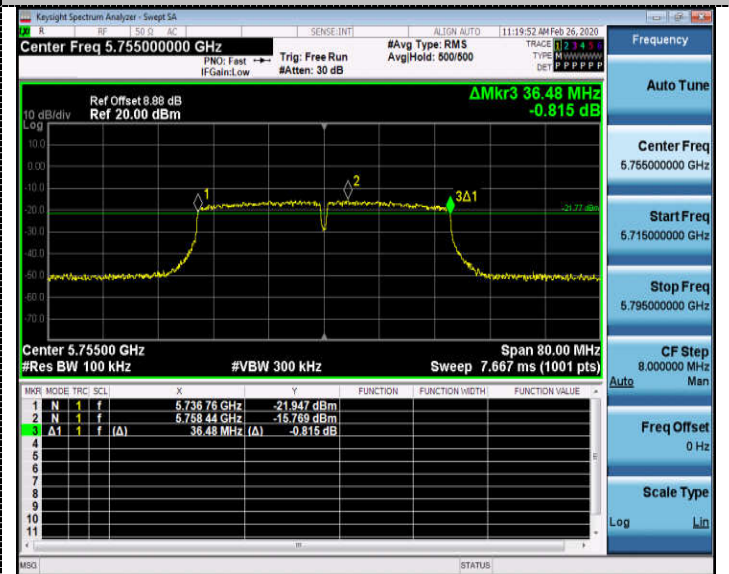
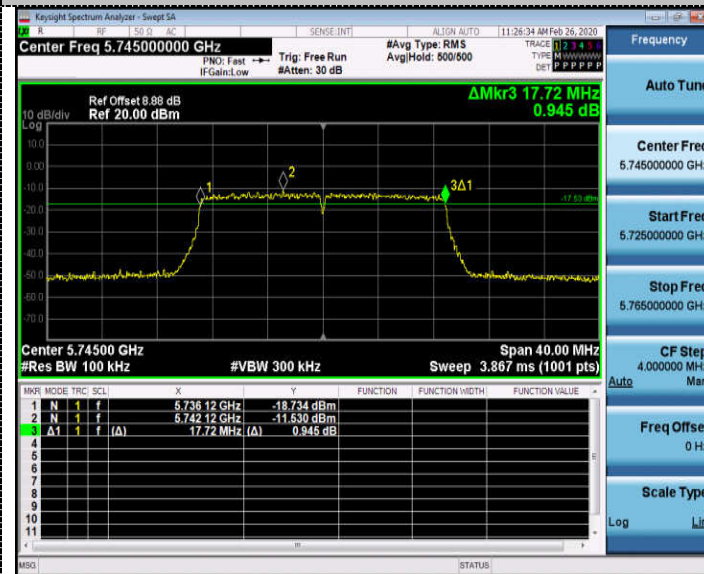
CH165

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6dB Bandwidth

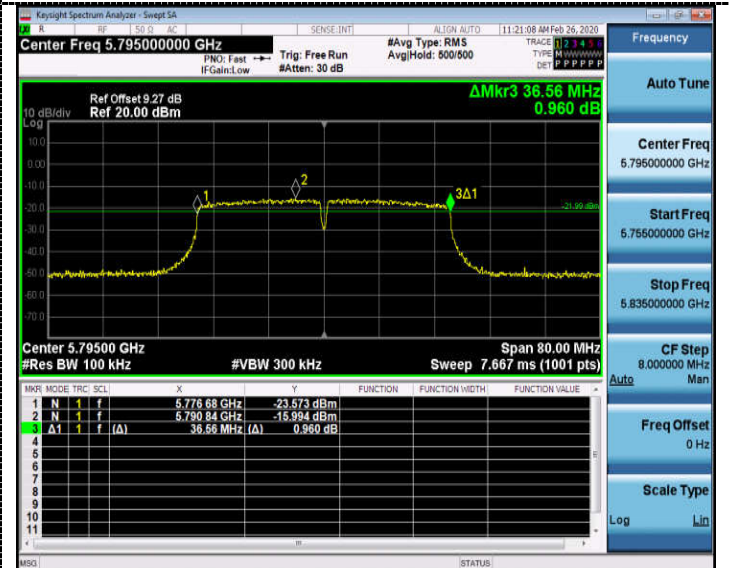
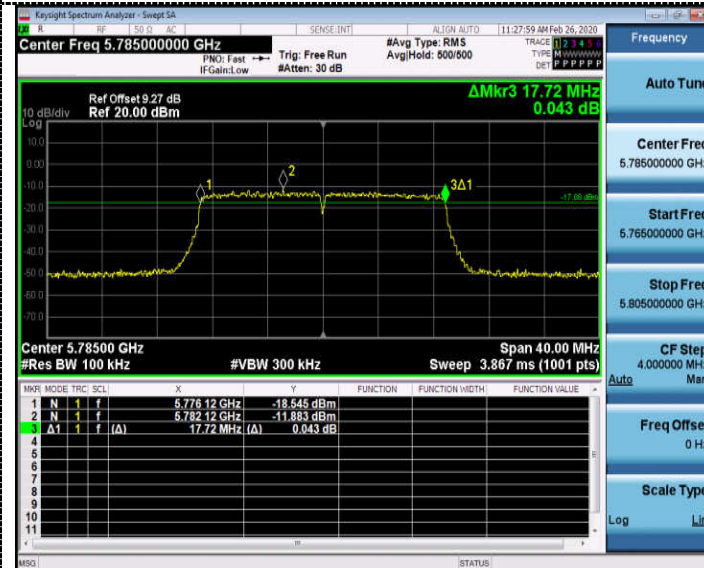
802.11ac20

802.11n HT40



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CH151



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CH159



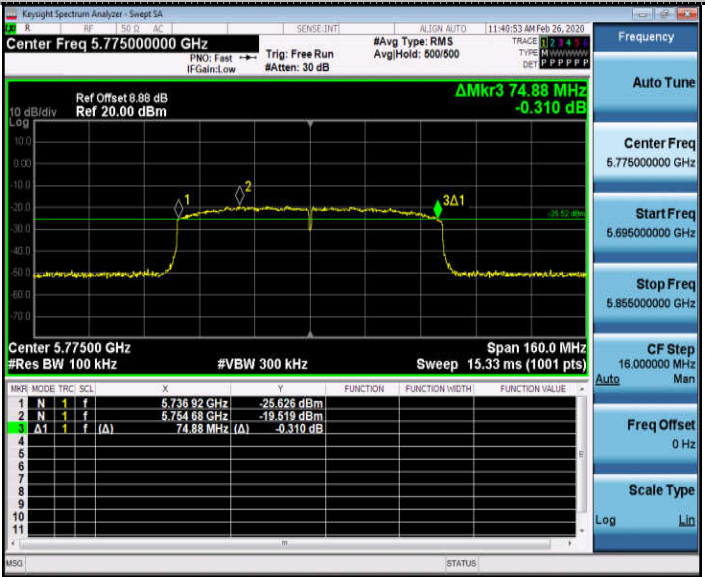
CH165

6dB Bandwidth

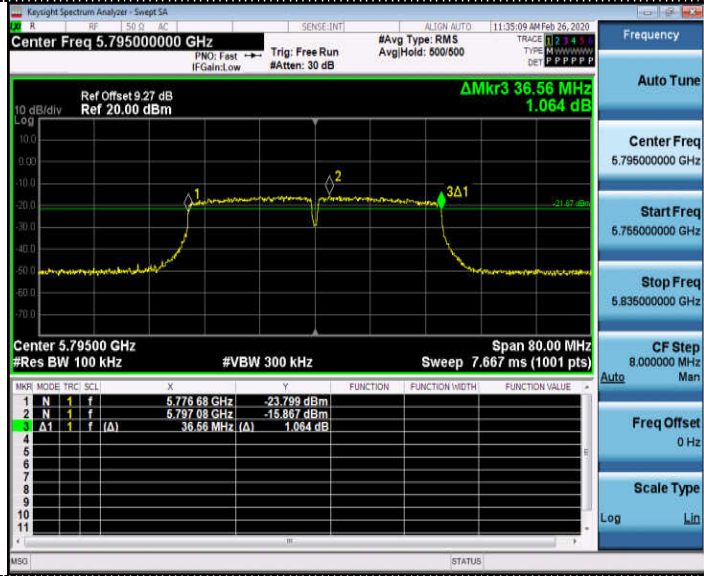
802.11ac40



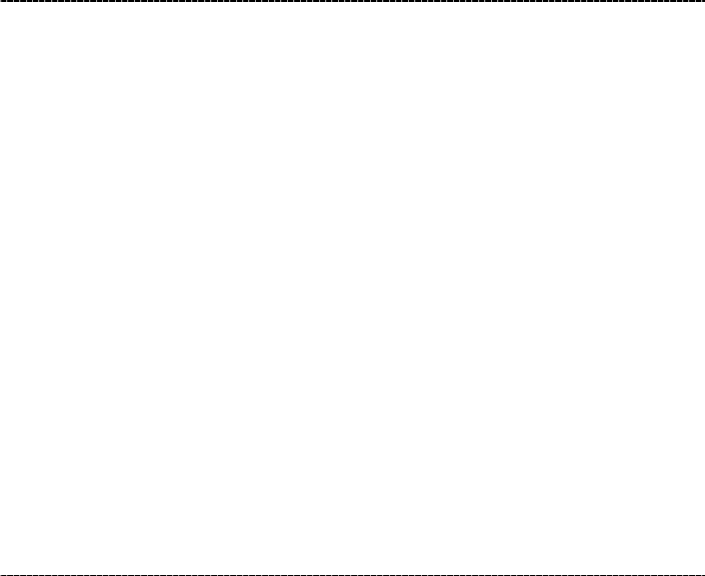
802.11ac80



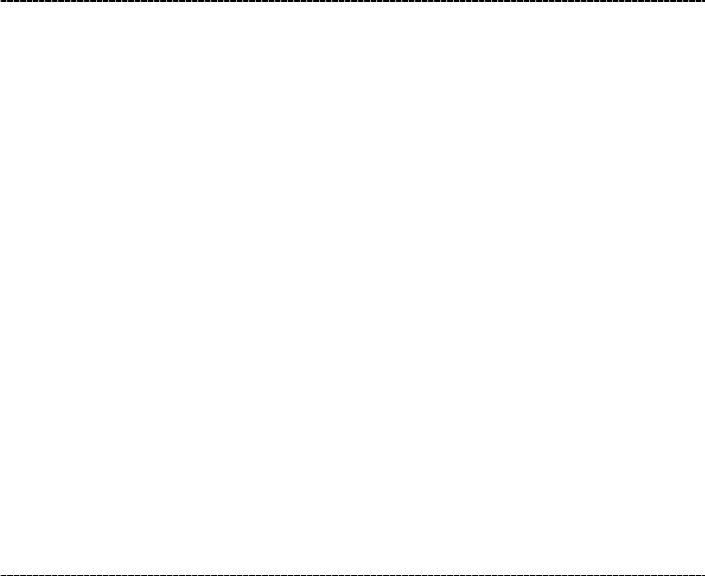
CH151



CH155



CH159

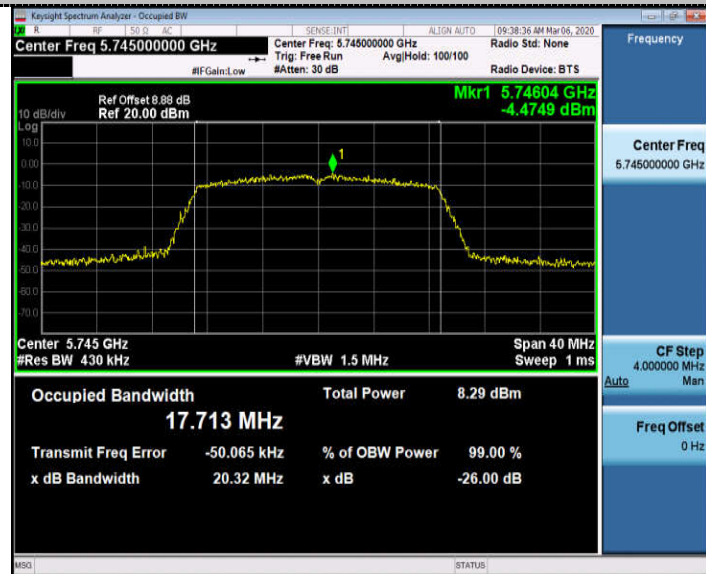
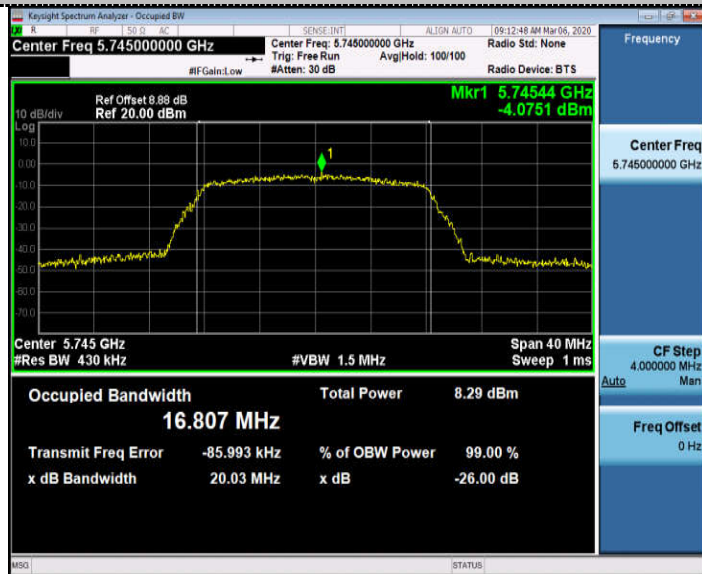


Antenna 1:

99%Bandwidth

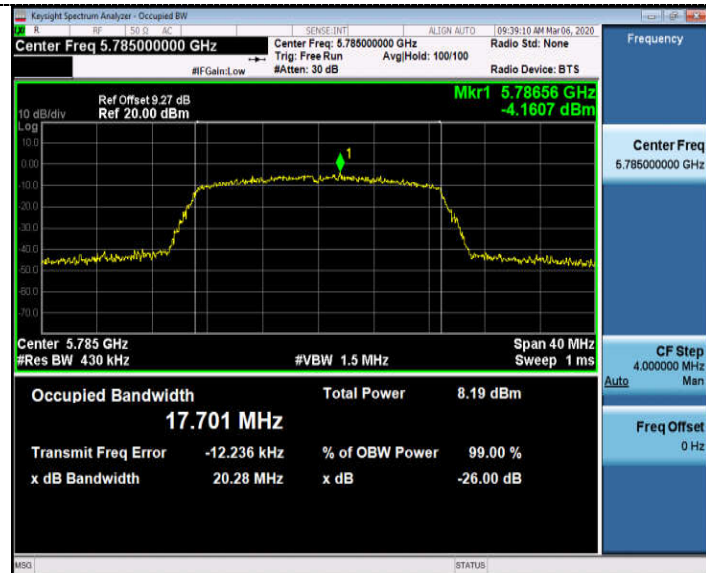
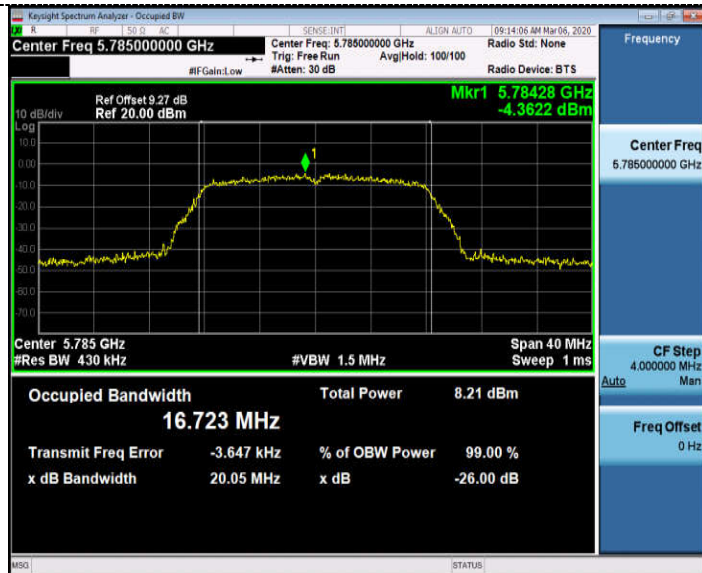
802.11a

802.11n HT20



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CH149



CH157

CH157



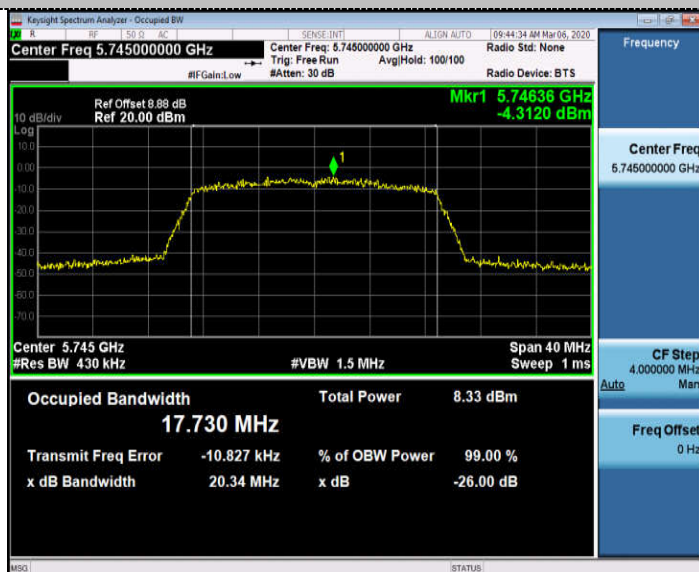
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99%Bandwidth

802.11ac20

802.11n HT40



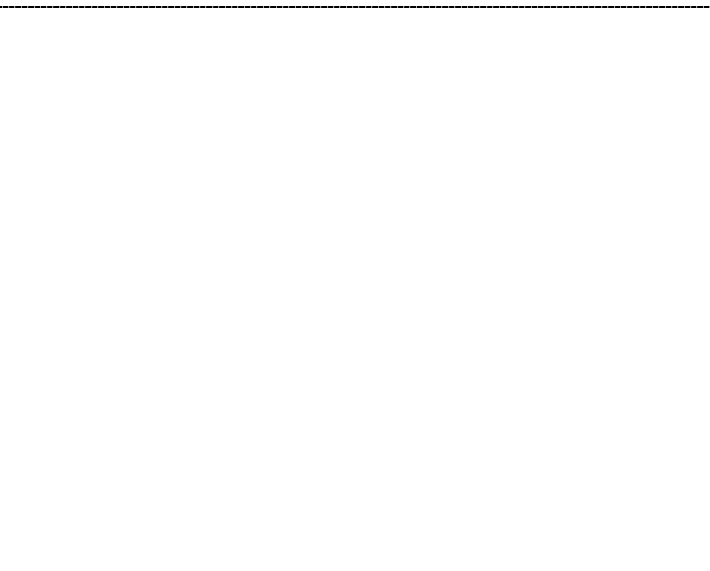
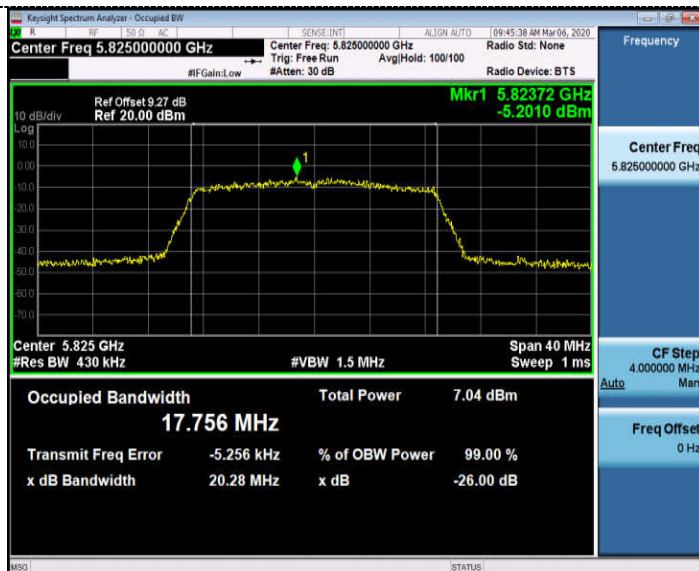
CH149

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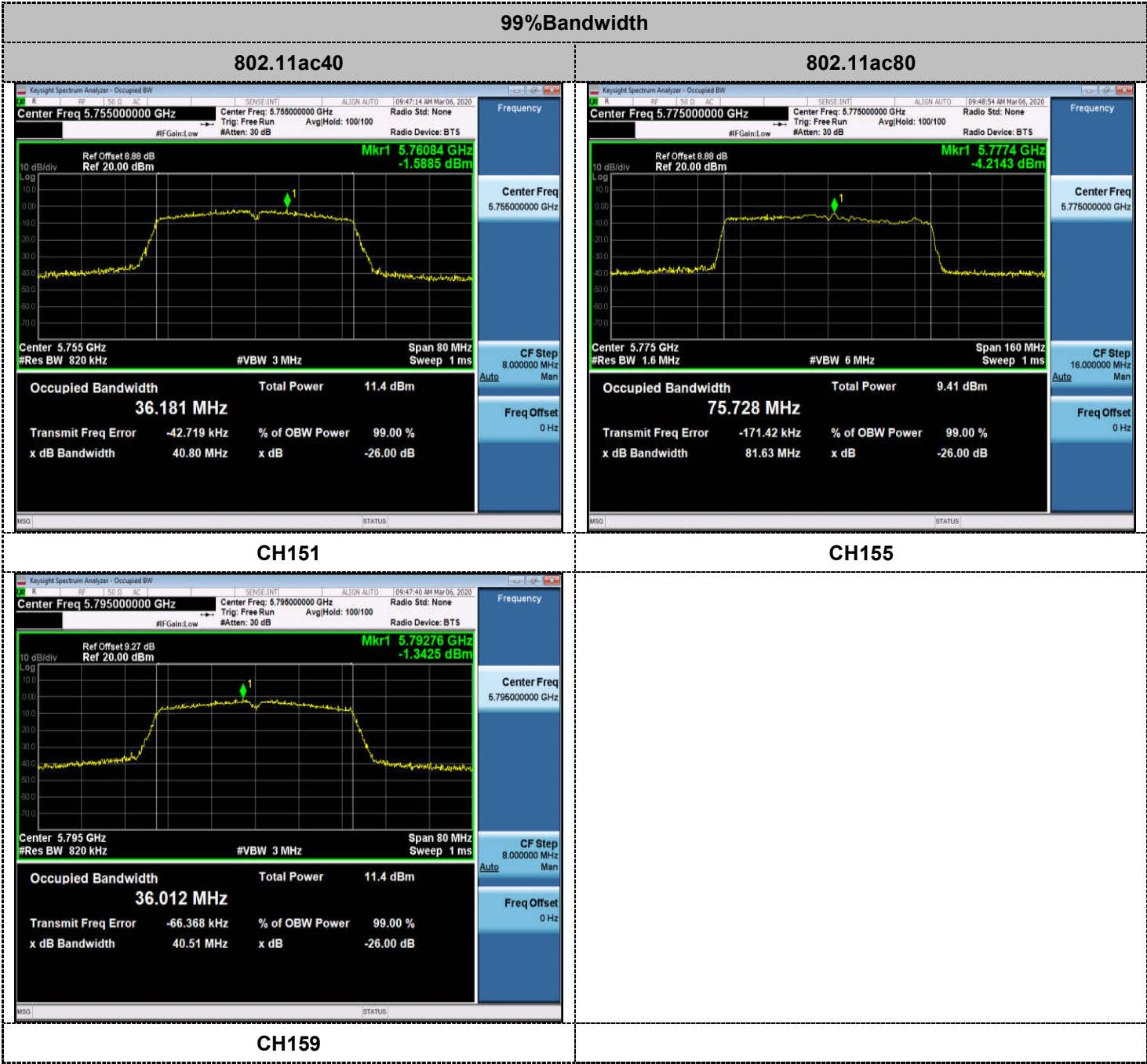


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CH159



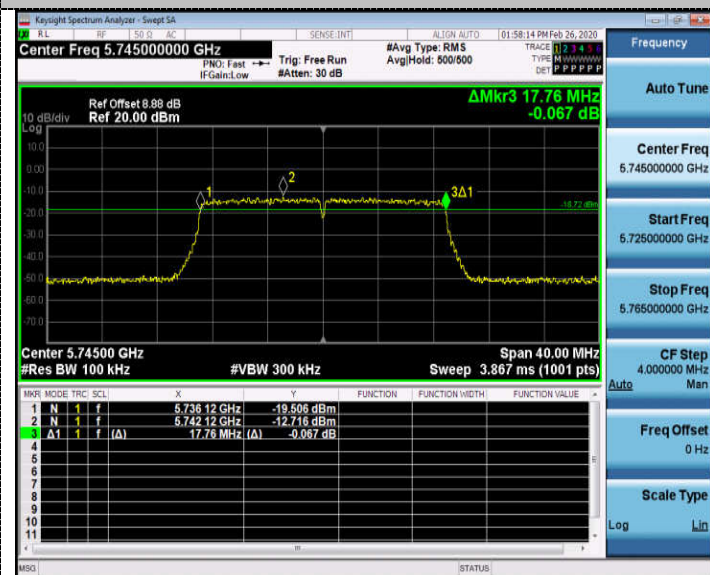
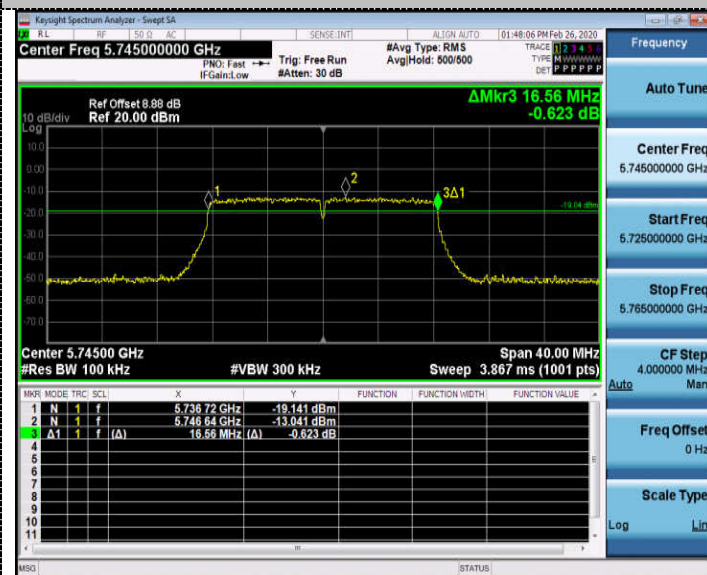
CH165



6dB Bandwidth

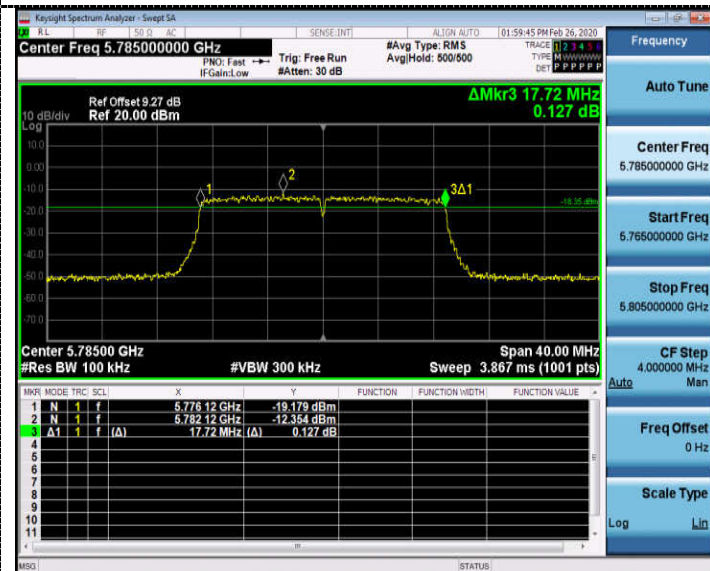
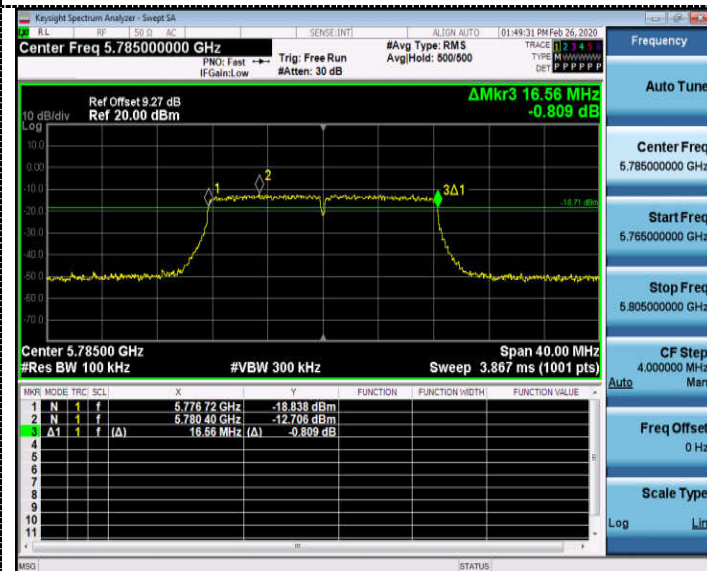
802.11a

802.11n HT20



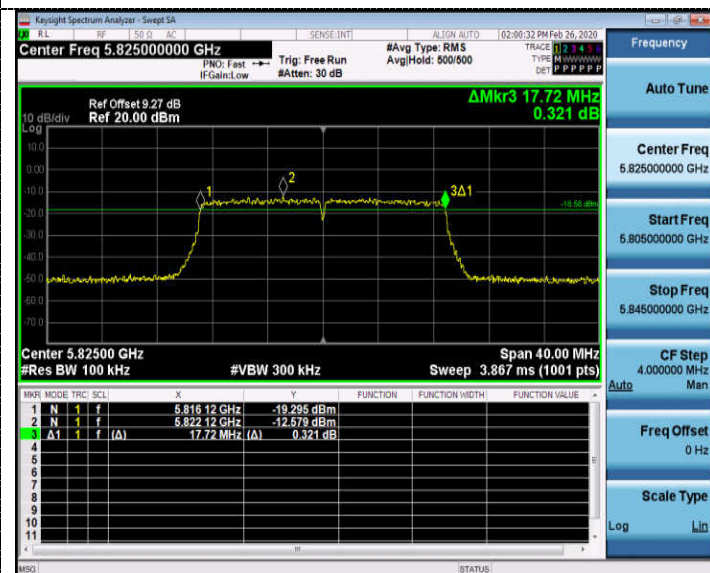
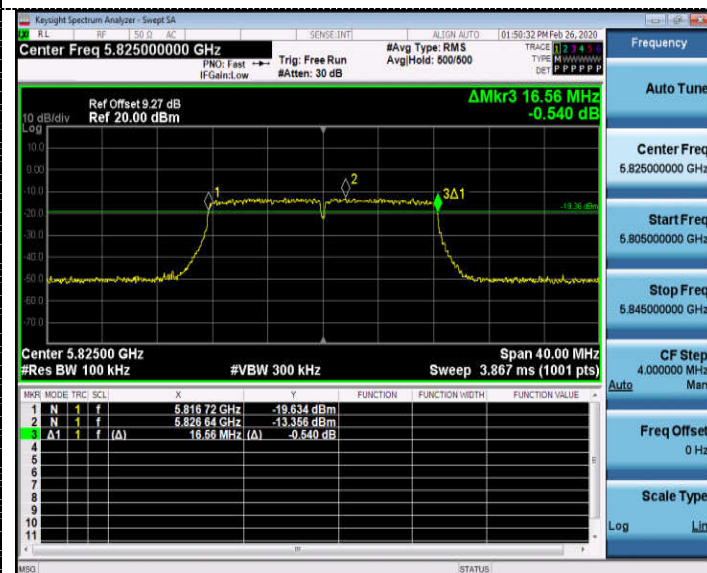
CH149

CH149



CH157

CH157



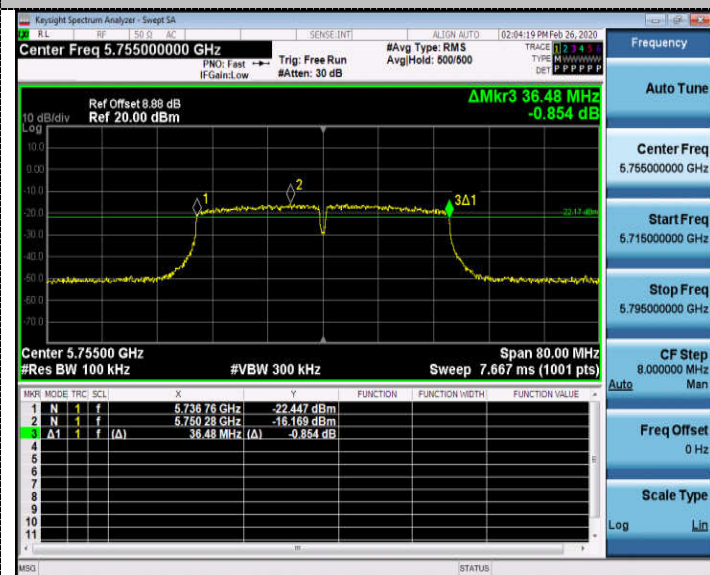
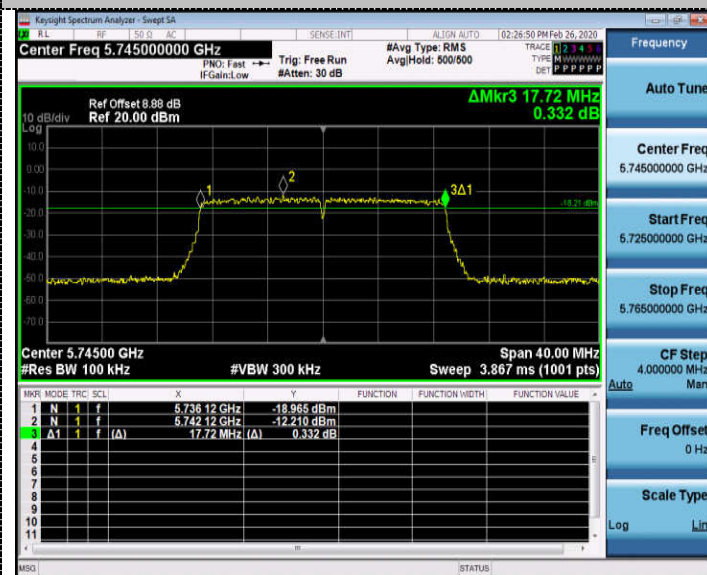
CH165

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6dB Bandwidth

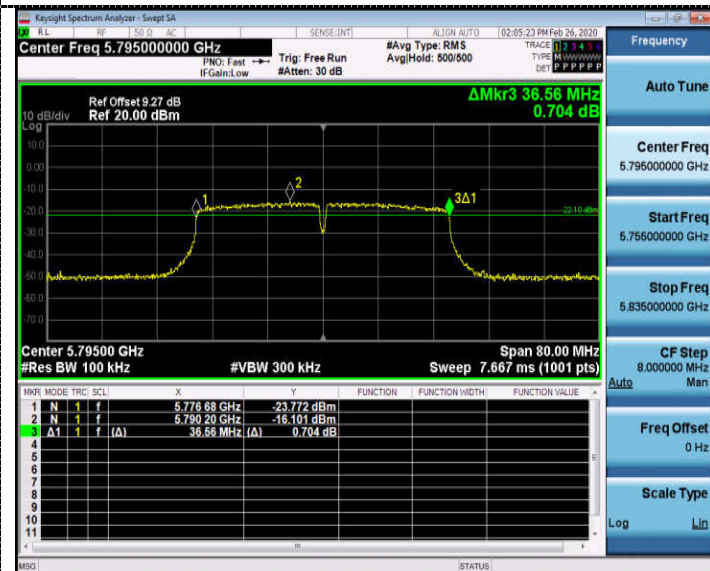
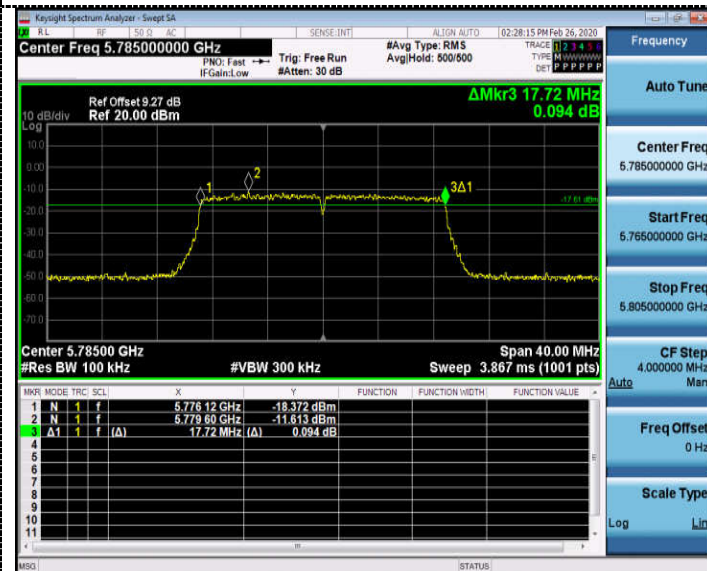
802.11ac20

802.11n HT40



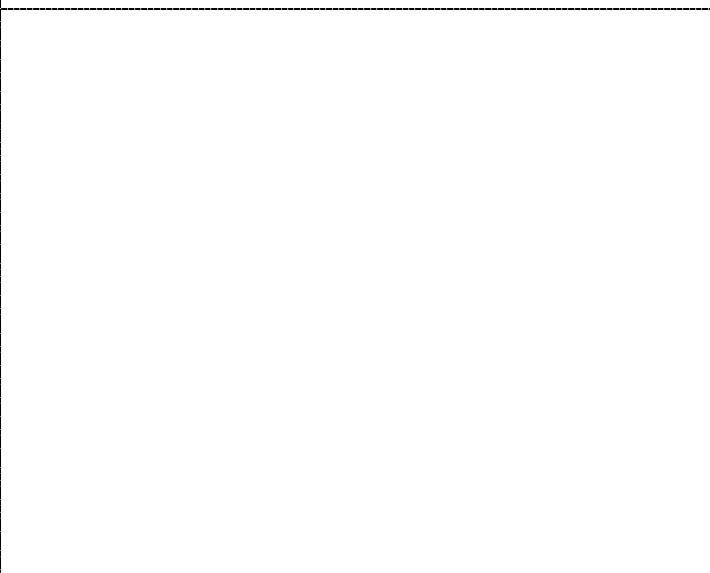
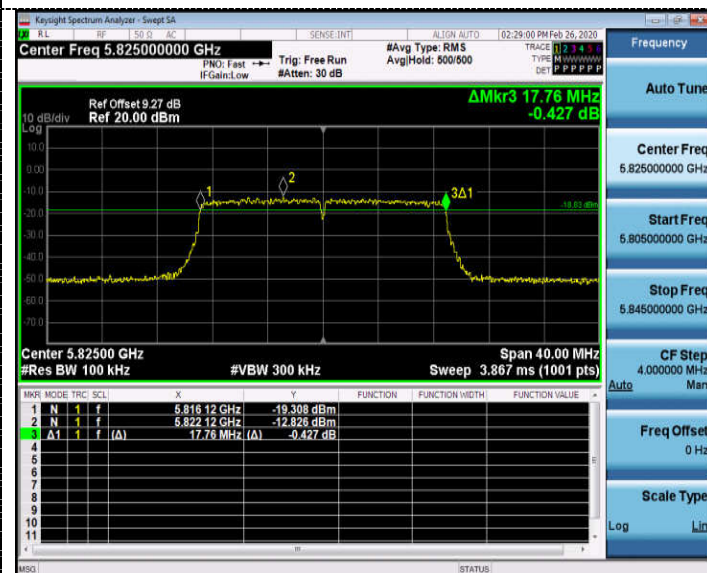
CH149

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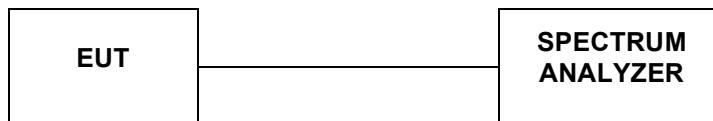


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4.7. 26dBc Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

According to KDB789033 D02 General UNII Test Procedures New Rules v01 for one of the following procedures may be used for Emission Bandwidth (EBW) measurement:

- a. Set RBW = 300 kHz (approximately 1% of the emission bandwidth).
- b. Set the video bandwidth (VBW) = 1000 KHz (VBW > 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 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%.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

LIMIT

No Limits for 26dBc Bandwidth

TEST RESULTS

Antenna 0:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.483	19.760	-	Pass
	40	16.483	19.520		
	48	16.487	19.720		
802.11nHT20	36	17.609	19.880	-	Pass
	40	17.606	20.040		
	48	17.610	19.800		
802.11ac20	36	17.615	20.040	-	Pass
	40	17.619	20.080		
	48	17.609	19.800		
802.11n40	38	36.361	40.240	-	Pass
	46	36.376	40.160		
802.11ac40	38	36.344	39.920	-	Pass
	46	36.396	40.400		
802.11ac80	155	74.609	80.640	-	Pass

Antenna 1:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.496	19.800	-	Pass
	40	16.496	19.680		
	48	16.489	19.320		
802.11nHT20	36	17.618	20.200	-	Pass
	40	17.614	20.120		
	48	17.628	20.120		
802.11ac20	36	17.624	20.120	-	Pass
	40	17.614	19.840		
	48	17.616	20.040		
802.11n40	38	36.332	40.480	-	Pass
	46	36.377	40.400		
802.11ac40	38	36.364	40.160	-	Pass
	46	36.387	40.000		
802.11ac80	155	74.675	81.440	-	Pass