

Antenna 1:

99%Bandwidth

802.11a

802.11n HT20



CH149

CH149



CH157

CH157

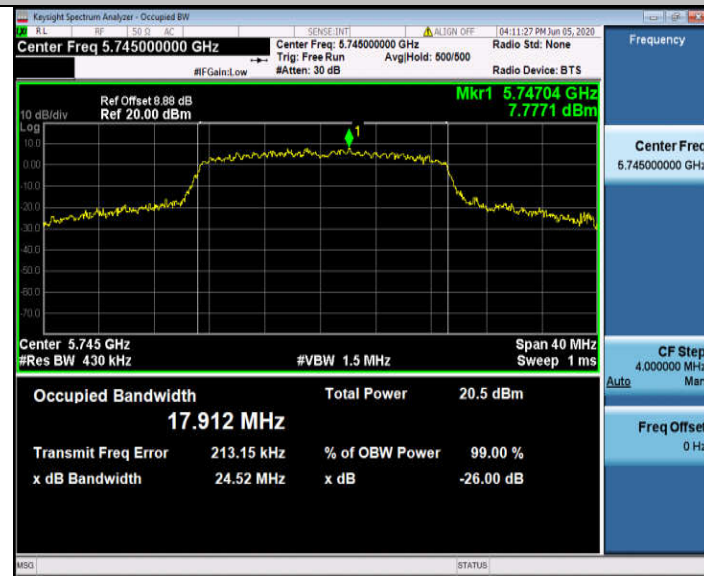


CH165

CH165

99%Bandwidth

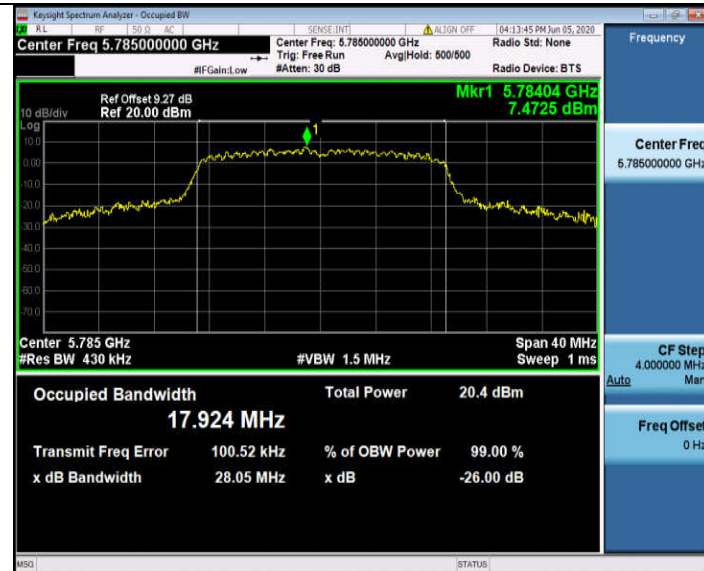
802.11ac20



802.11n HT40



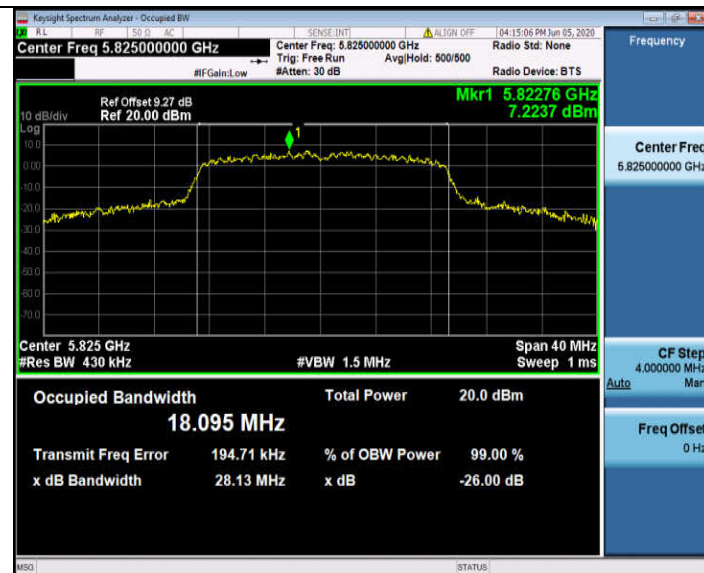
CH149



CH151



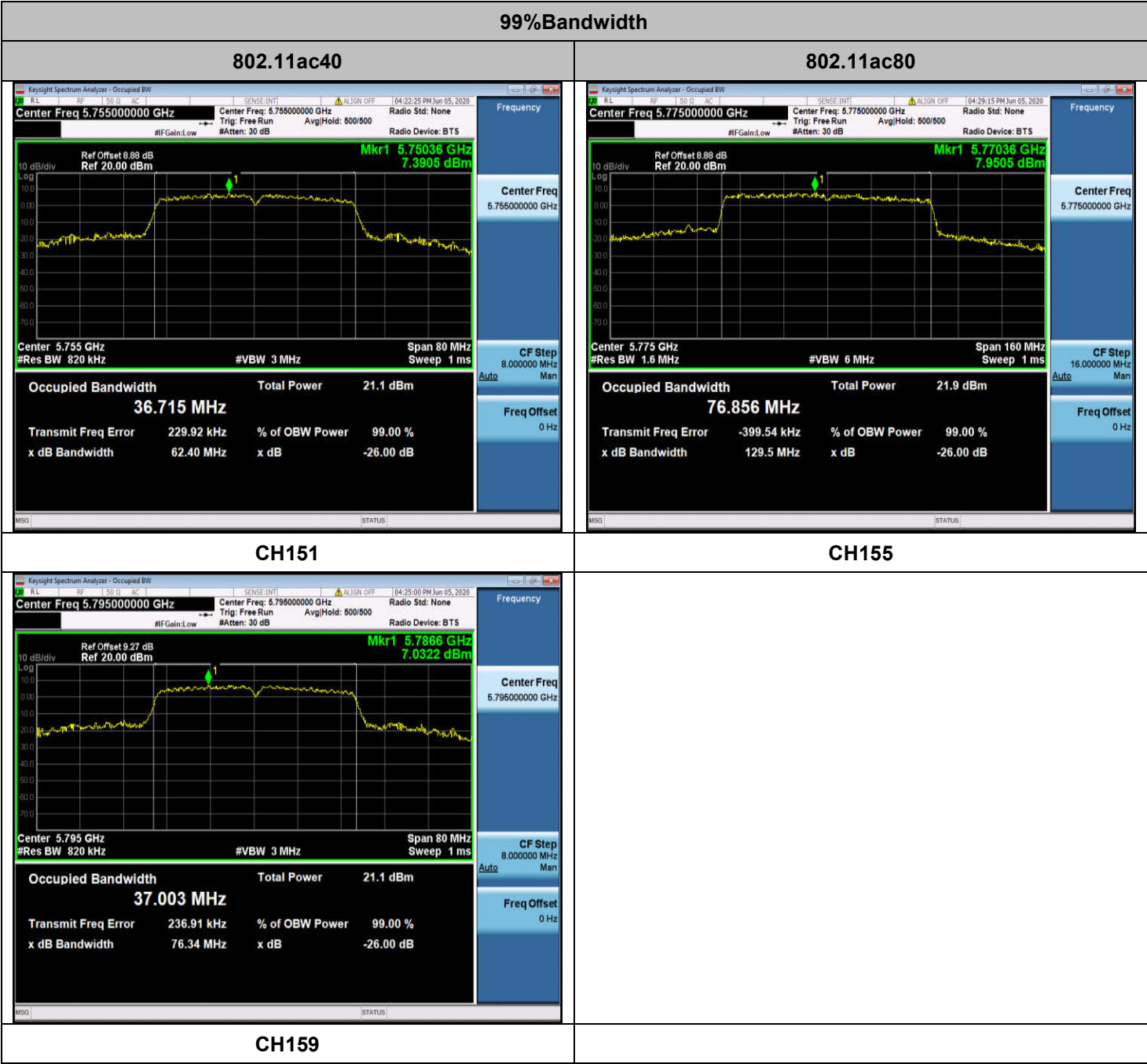
CH157



CH159



CH165

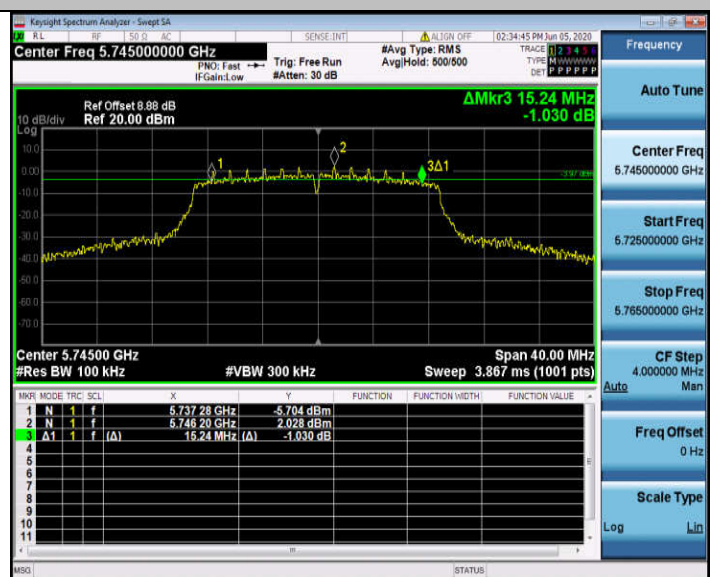


6dB Bandwidth

802.11a



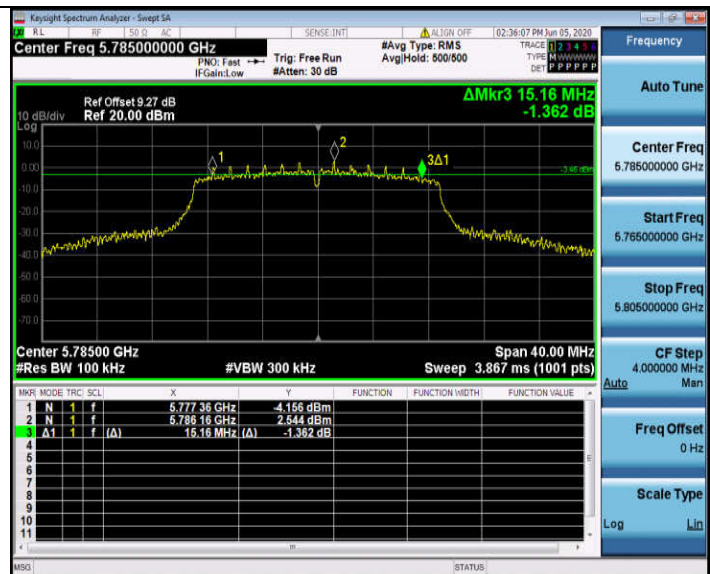
802.11n HT20



CH149



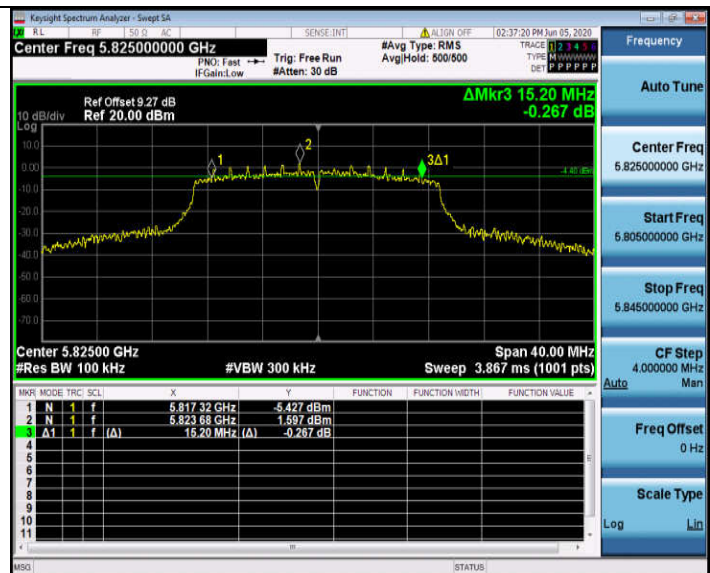
CH149



CH157



CH157



CH165

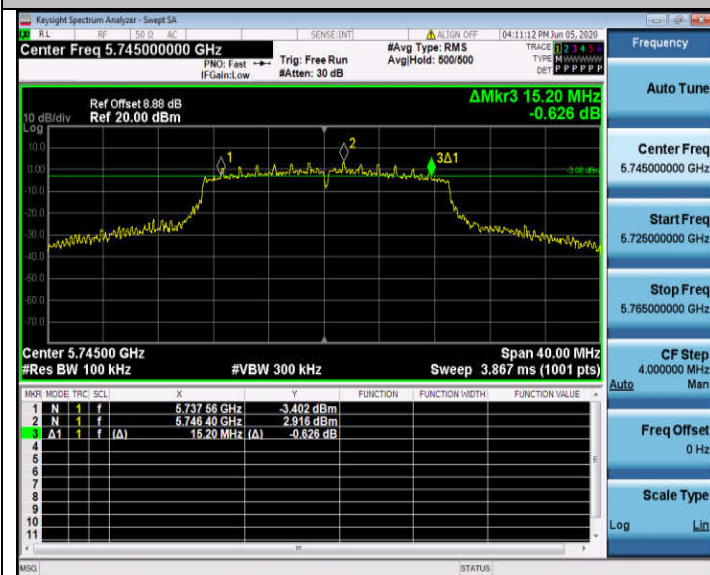


CH165

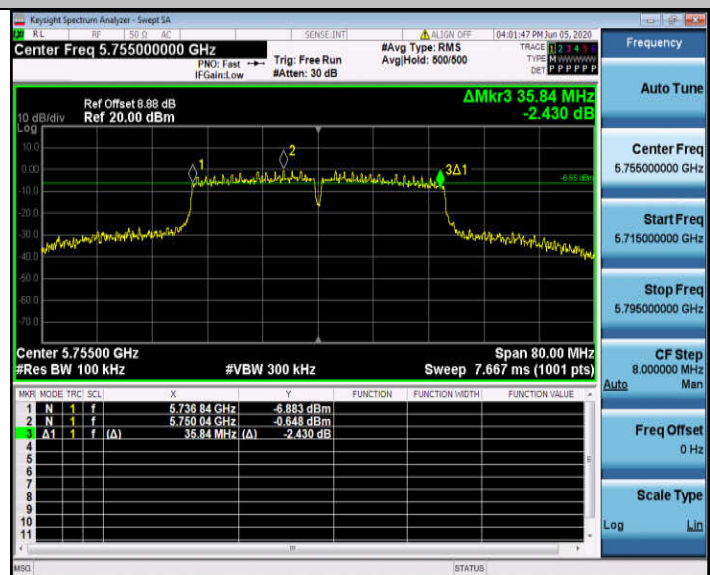


6dB Bandwidth

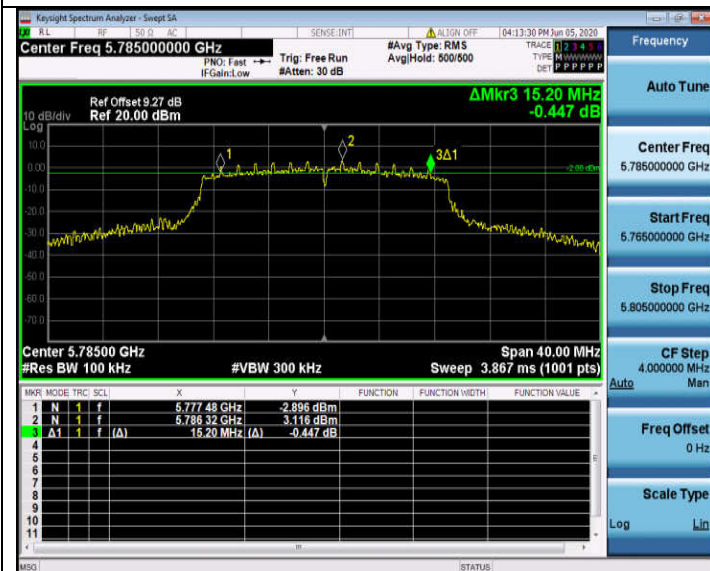
802.11ac20



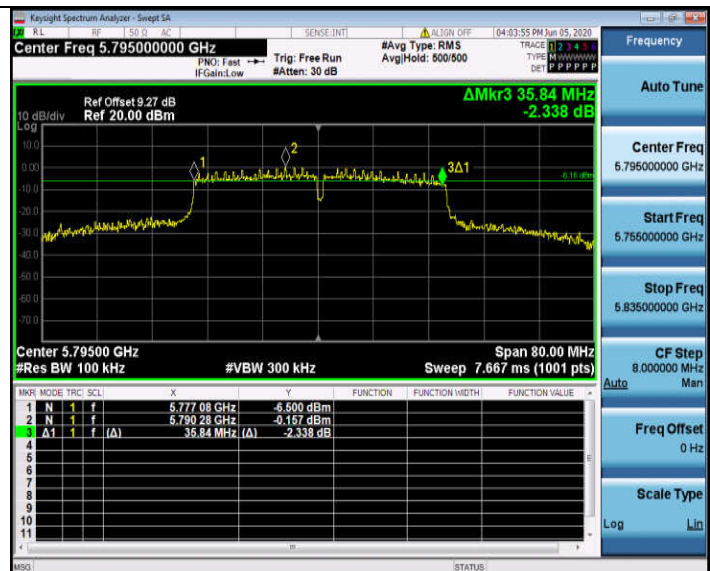
802.11n HT40



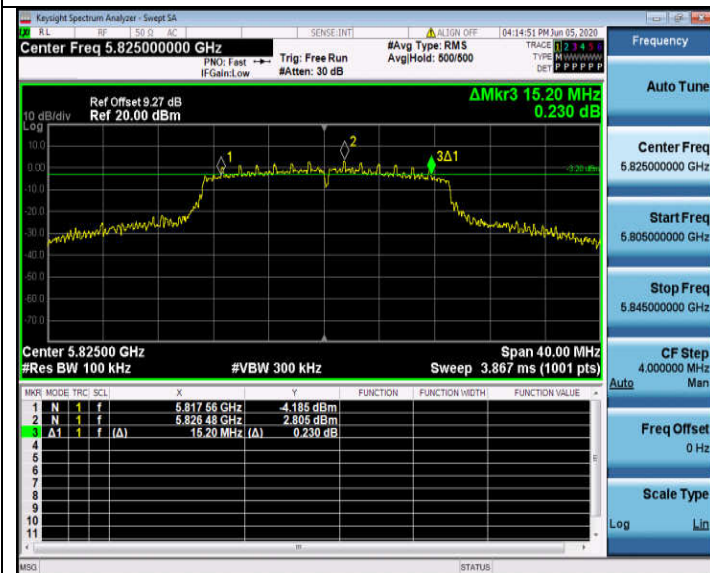
CH149



CH151



CH157



CH159



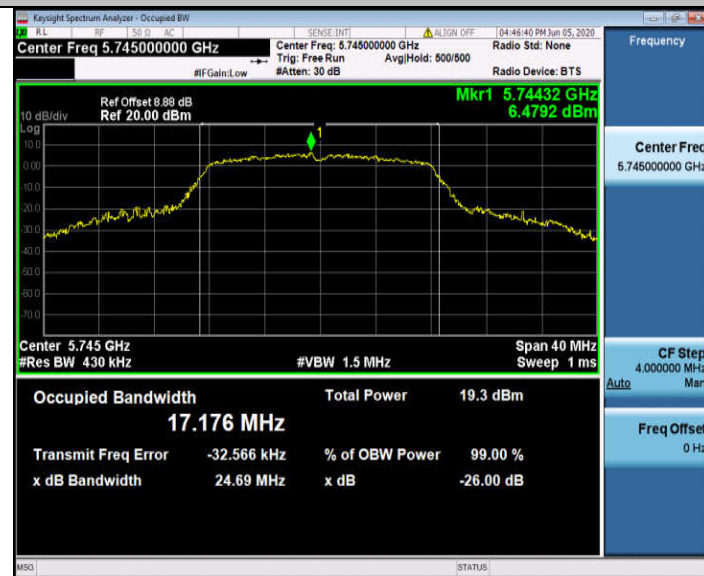
CH165



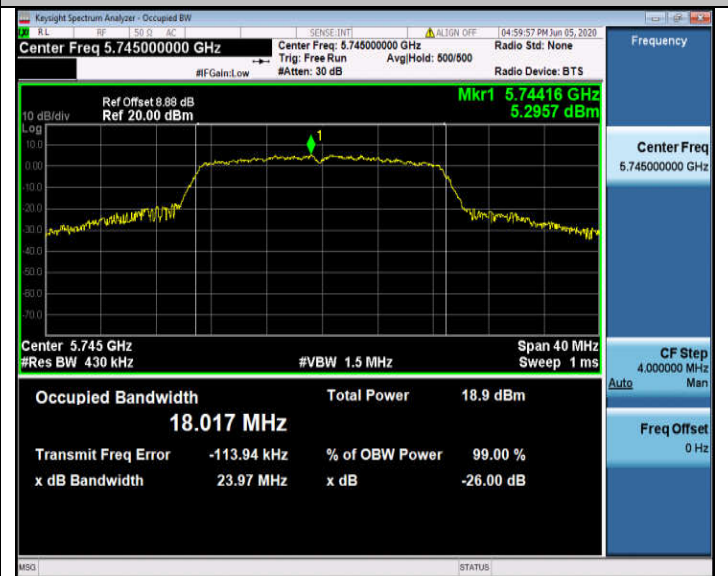
Antenna 2:

99%Bandwidth

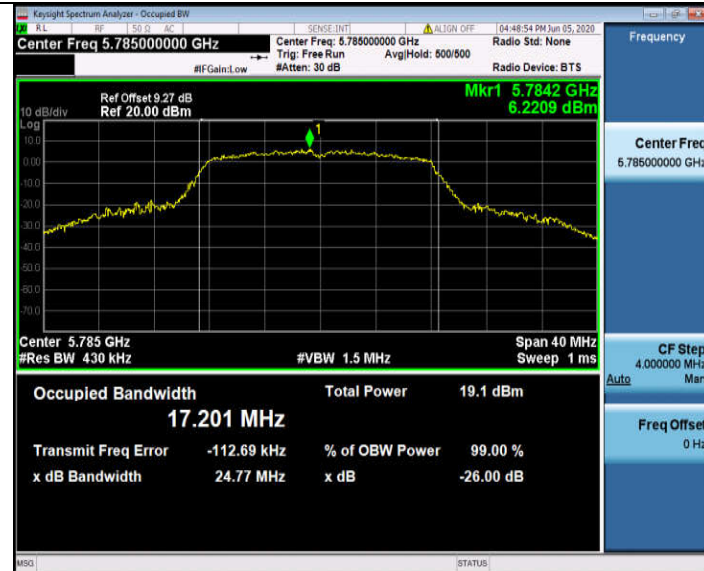
802.11a



802.11n HT20



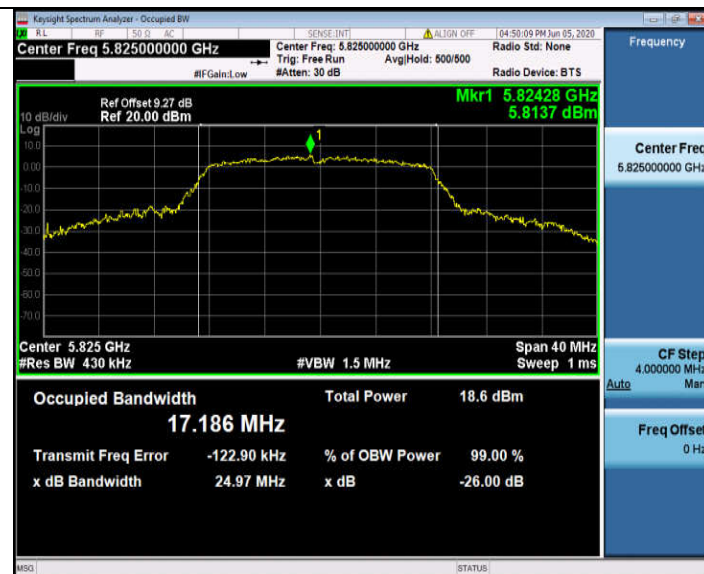
CH149



CH149



CH157



CH157

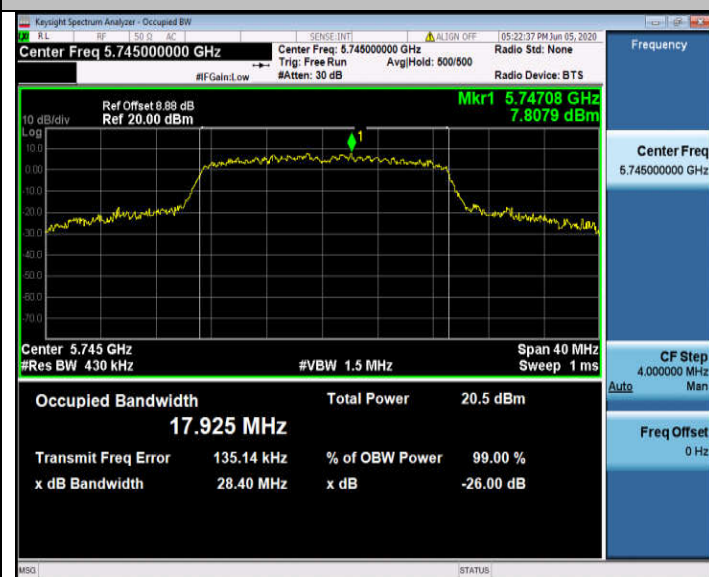


CH165

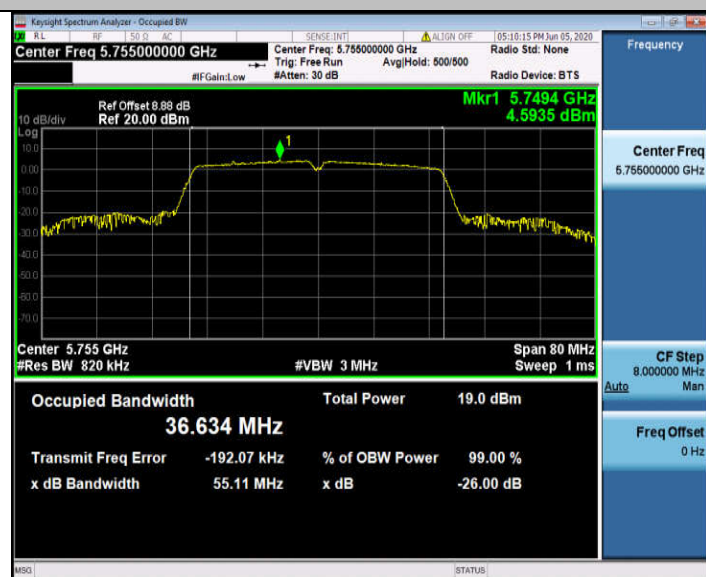
CH165

99%Bandwidth

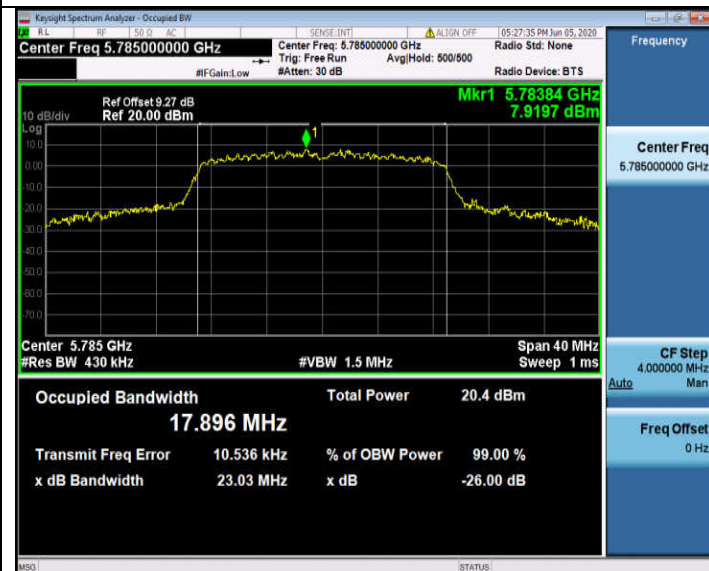
802.11ac20



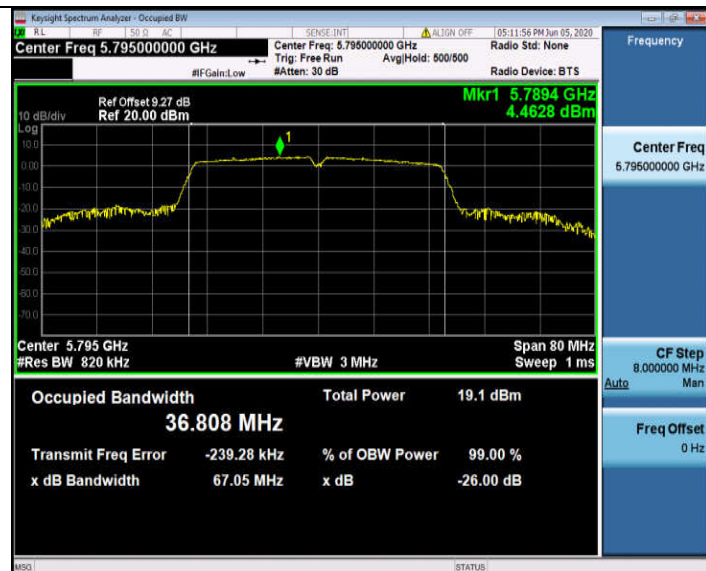
802.11n HT40



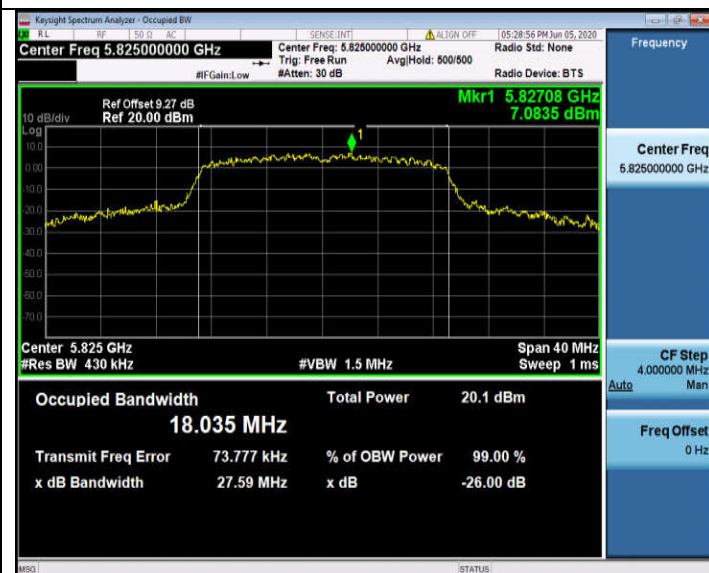
CH149



CH151



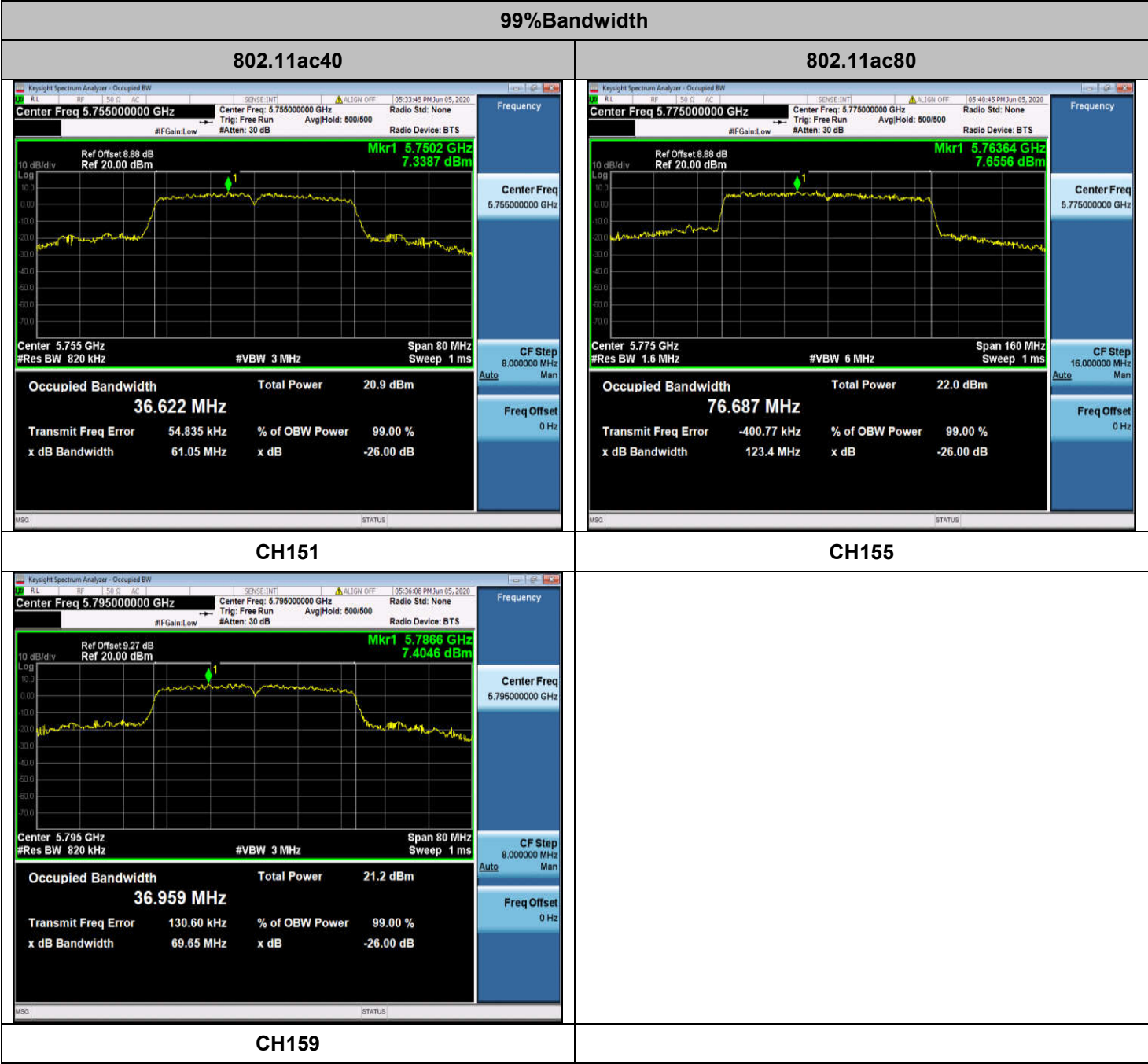
CH157



CH159



CH165

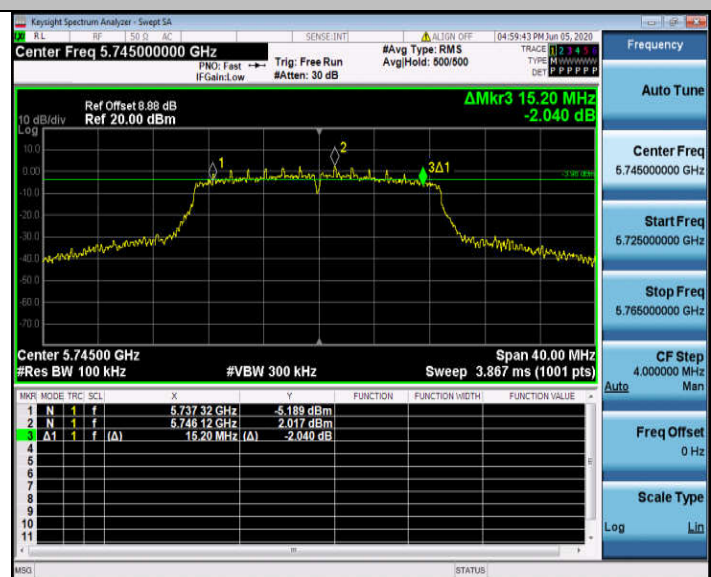


6dB Bandwidth

802.11a



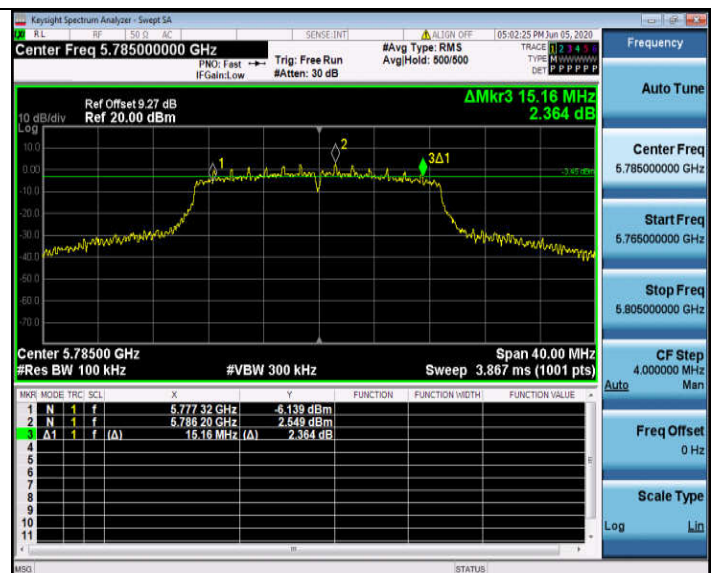
802.11n HT20



CH149



CH149



CH157



CH157



CH165



CH165

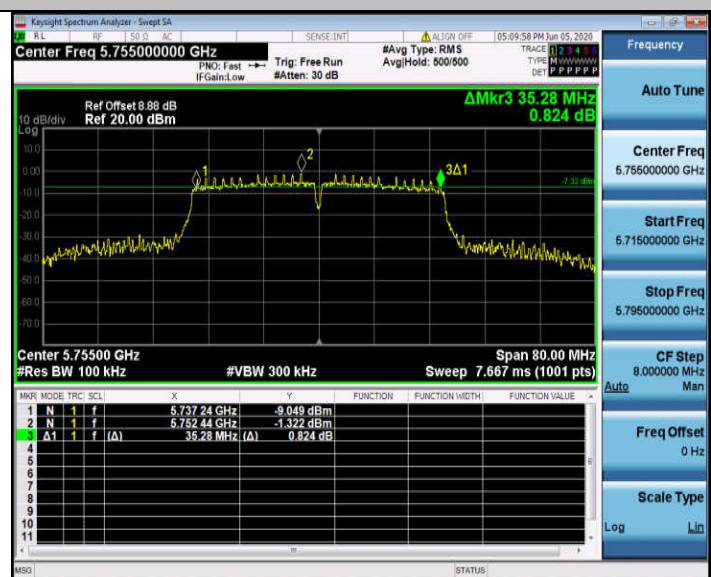


6dB Bandwidth

802.11ac20



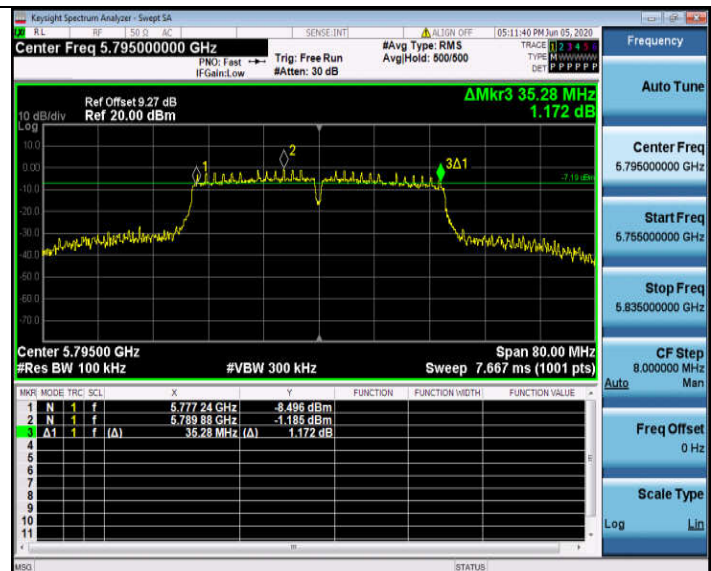
802.11n HT40



CH149



CH151



CH157



CH159

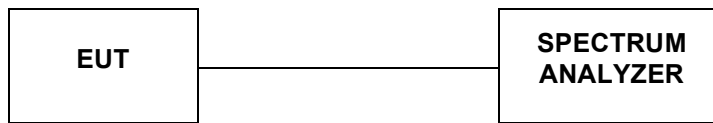


CH165



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:

- Set RBW = 300 kHz (approximately 1% of the emission bandwidth).
- Set the video bandwidth (VBW) = 1000 KHz (VBW > RBW)
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize
- 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

Temperature	23.6°C	Humidity	55.7%
Test Engineer	Moon Tan	Configurations	IEEE 802.11a/n/ac

Antenna 1:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.986	19.760	-	Pass
	40	16.944	19.800		
	48	16.959	19.680		
802.11nHT20	36	17.873	20.280	-	Pass
	40	17.833	20.160		
	48	17.901	20.160		
802.11ac20	36	17.740	20.160	-	Pass
	40	17.709	20.240		
	48	17.734	20.200		
802.11n40	38	36.450	40.480	-	Pass
	46	36.483	40.640		
802.11ac40	38	36.618	46.000	-	Pass
	46	36.807	60.400		
802.11ac80	155	75.922	80.480	-	Pass

Antenna 2:

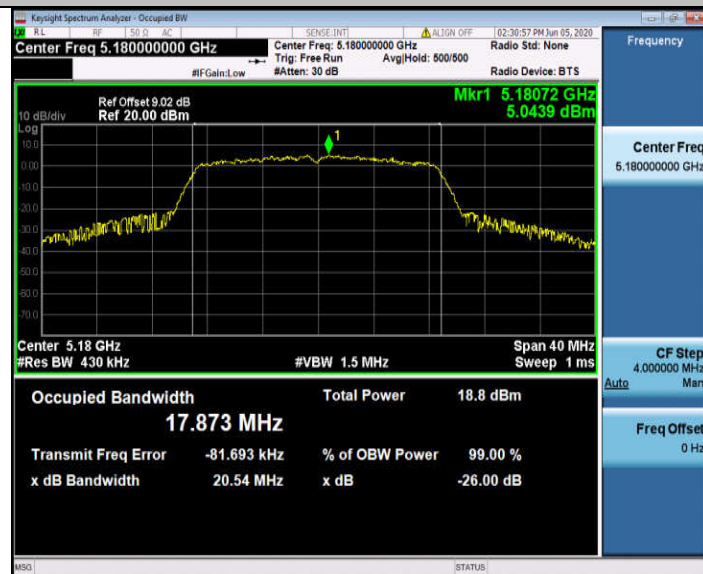
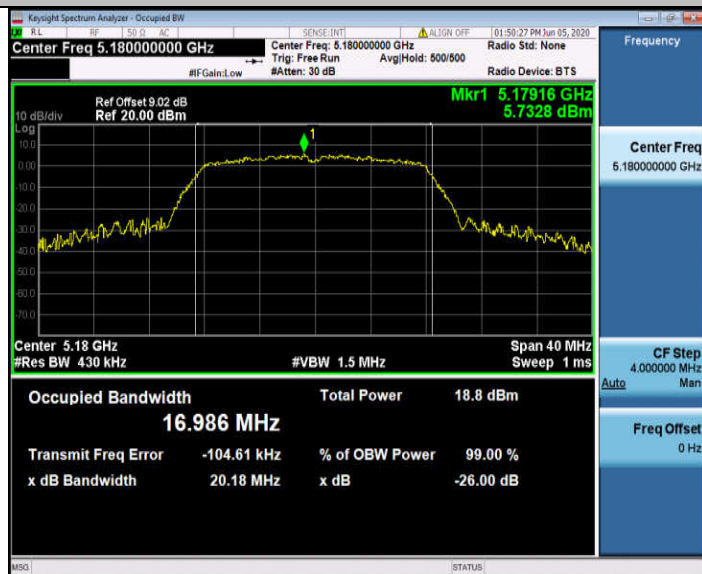
Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.656	19.920	-	Pass
	40	16.628	19.880		
	48	16.681	19.840		
802.11nHT20	36	17.864	20.120	-	Pass
	40	17.862	20.240		
	48	17.884	20.120		
802.11ac20	36	17.695	20.120	-	Pass
	40	17.728	20.160		
	48	17.740	20.240		
802.11n40	38	36.460	40.400	-	Pass
	46	36.503	40.960		
802.11ac40	38	36.403	40.160	-	Pass
	46	36.448	40.160		
802.11ac80	155	76.008	80.320	-	Pass

Antenna 1:

99%Bandwidth

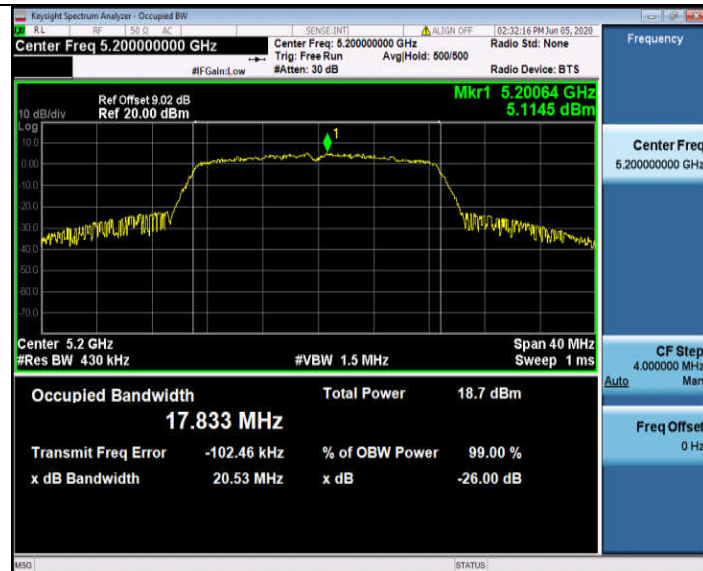
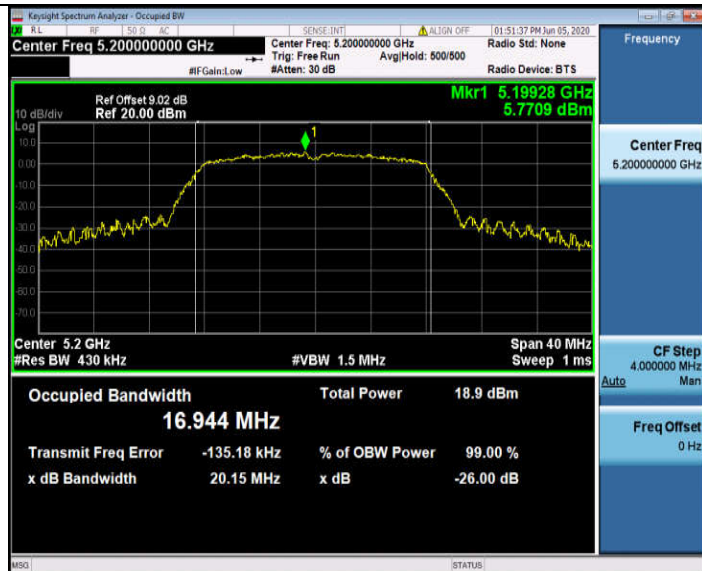
802.11a

802.11n HT20



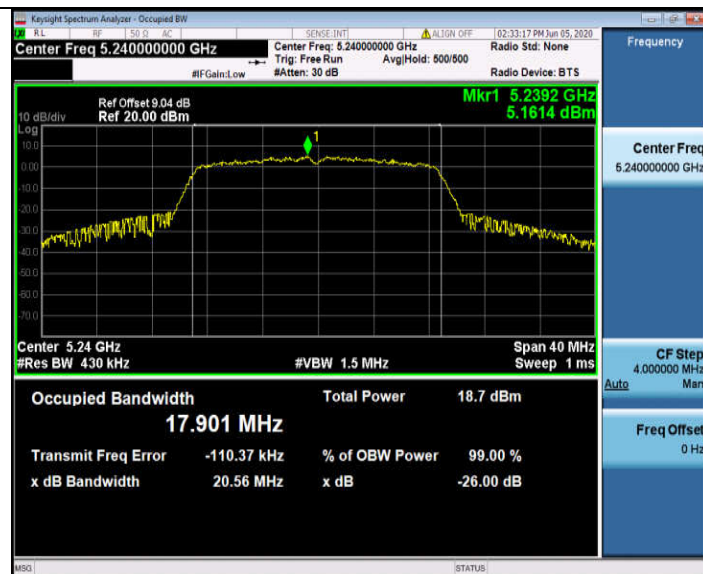
CH36

CH36



CH40

CH40

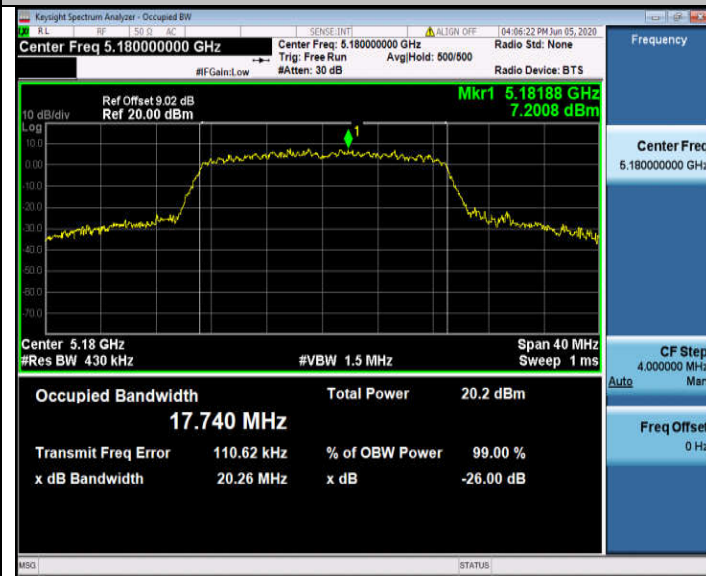


CH48

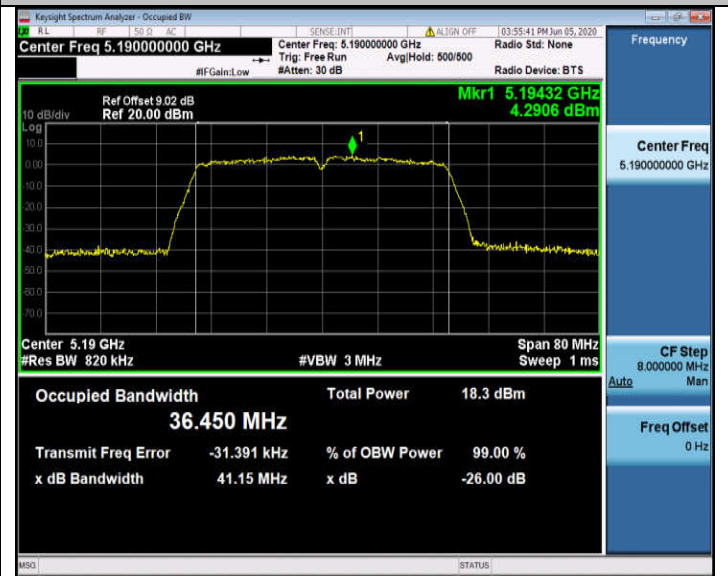
CH48

99%Bandwidth

802.11ac20



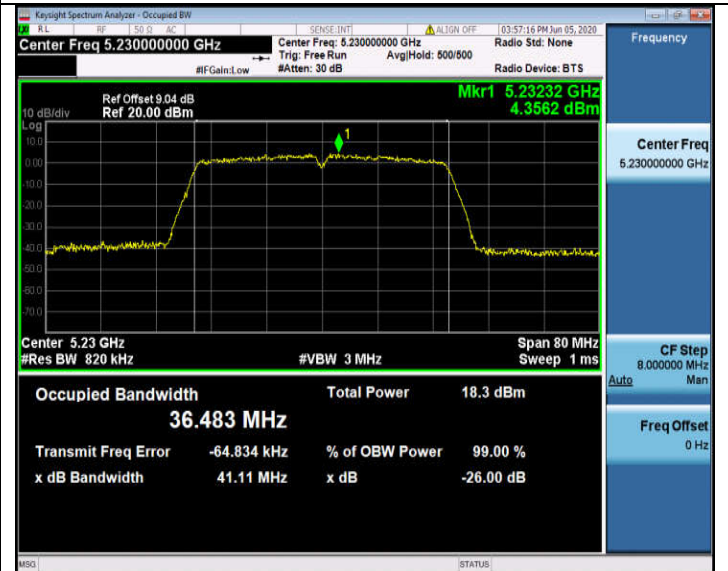
802.11n HT40



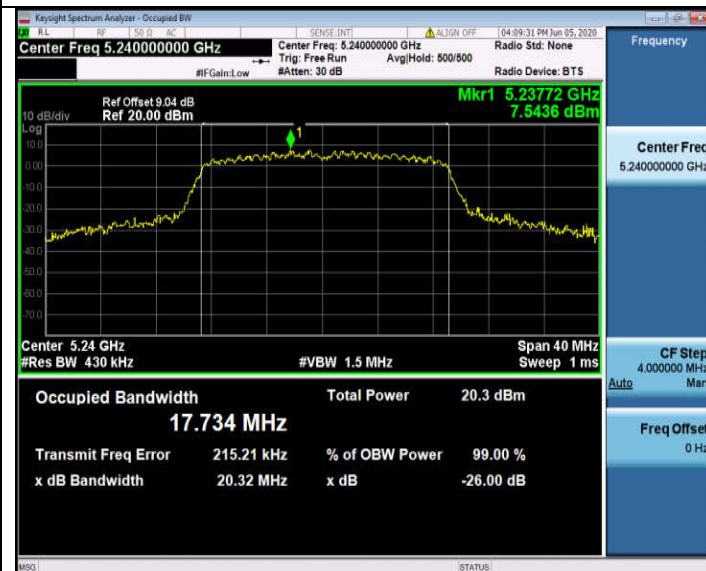
CH36



CH38



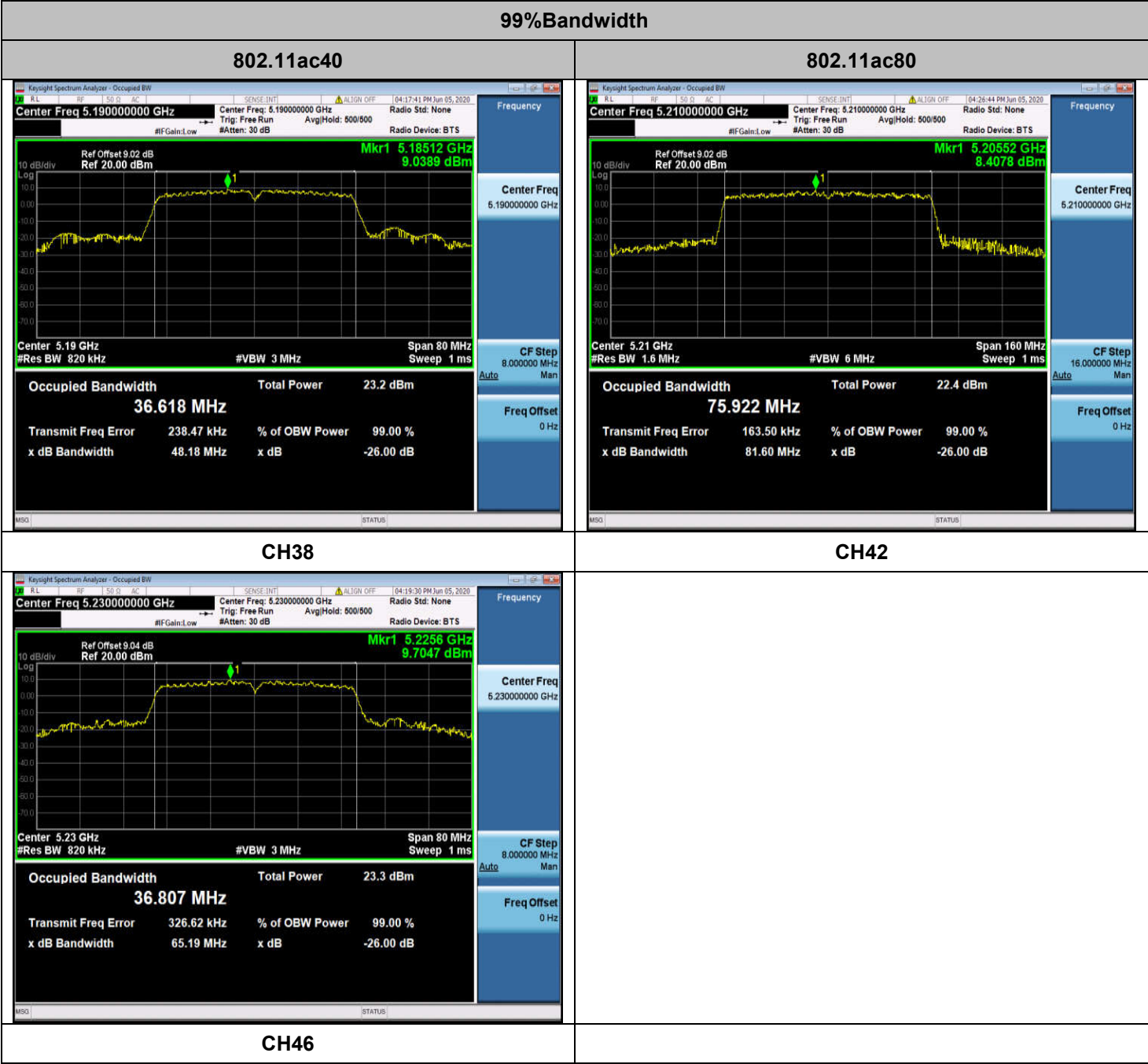
CH40



CH46

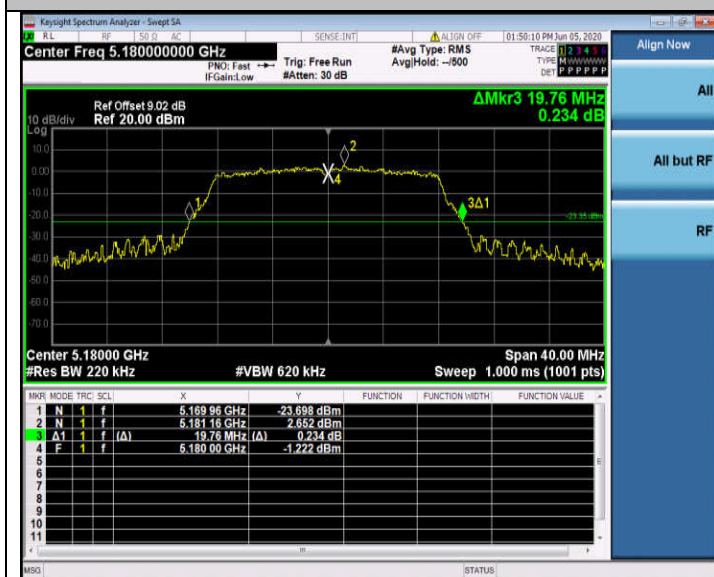


CH48

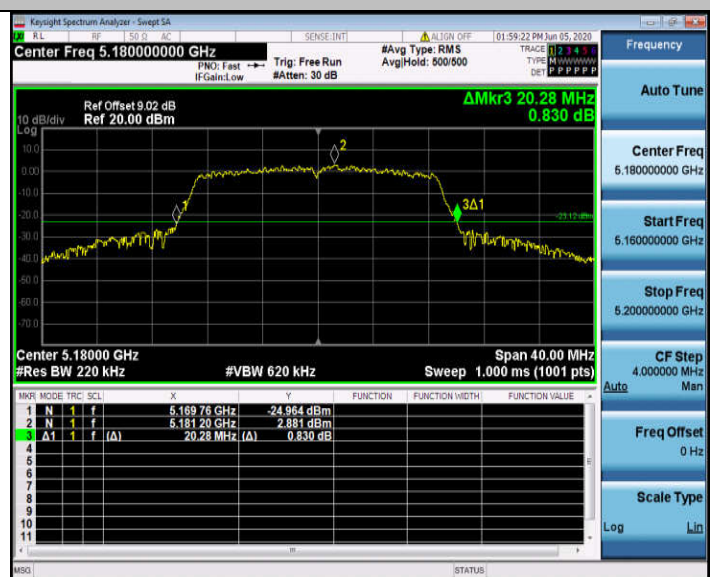


26dB Bandwidth

802.11a



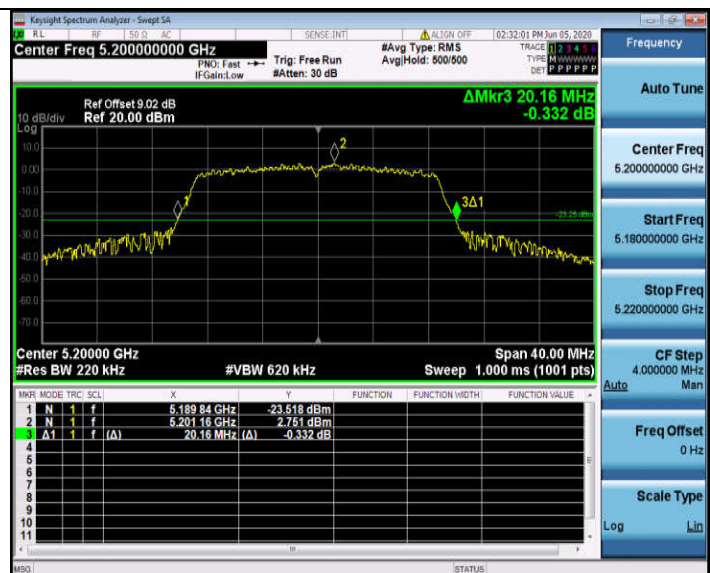
802.11n HT20



CH36



CH36



CH40



CH40



CH48

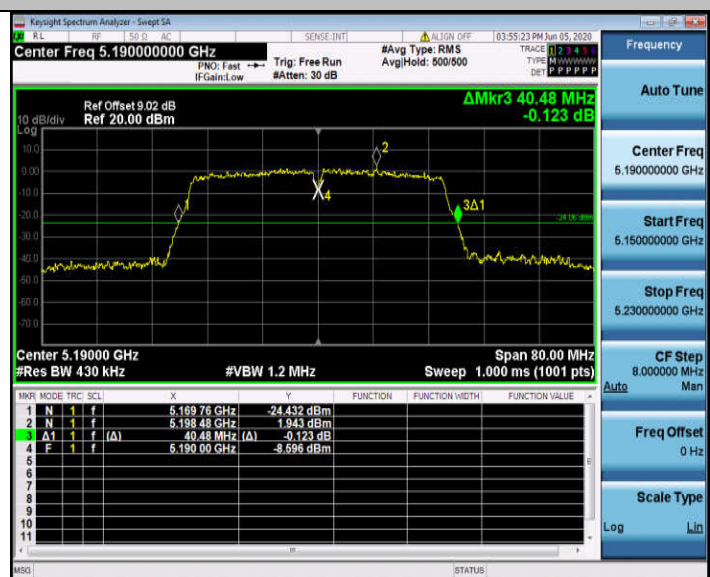
CH48

26dB Bandwidth

802.11ac20



802.11n HT40



CH36



CH38



CH40



CH46



CH48

26dB Bandwidth

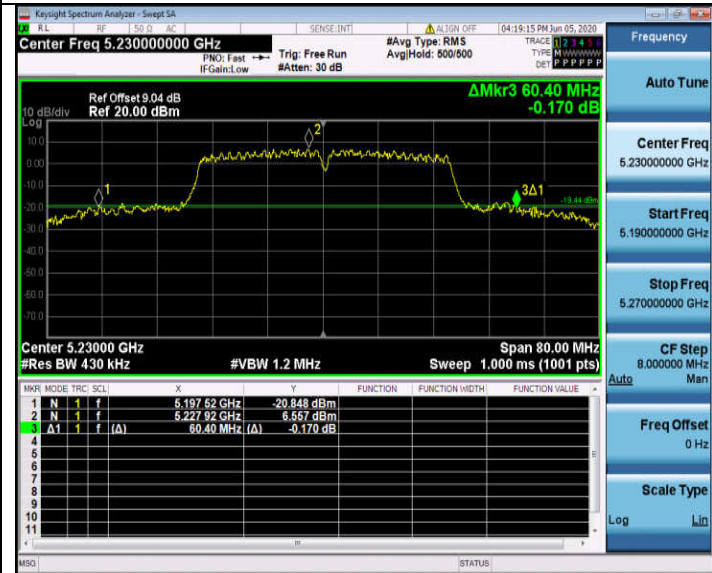
802.11ac40



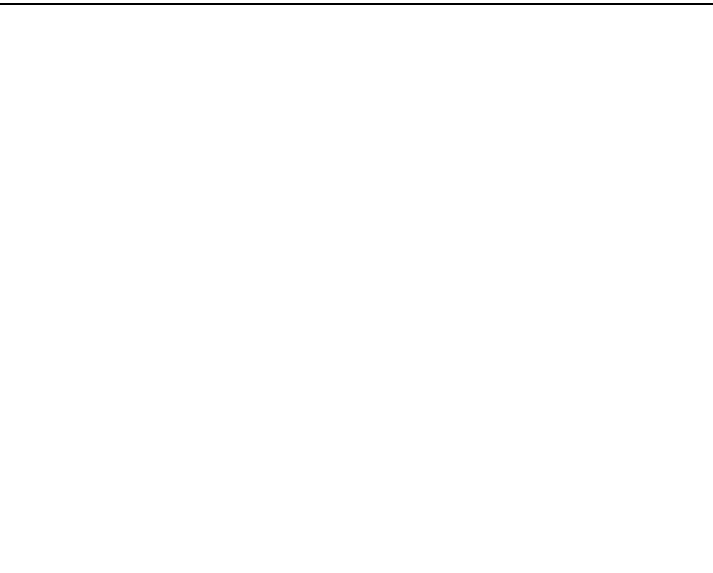
802.11ac80



CH38



CH42



CH46