

6dB Bandwidth Measurement

1.1.6. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

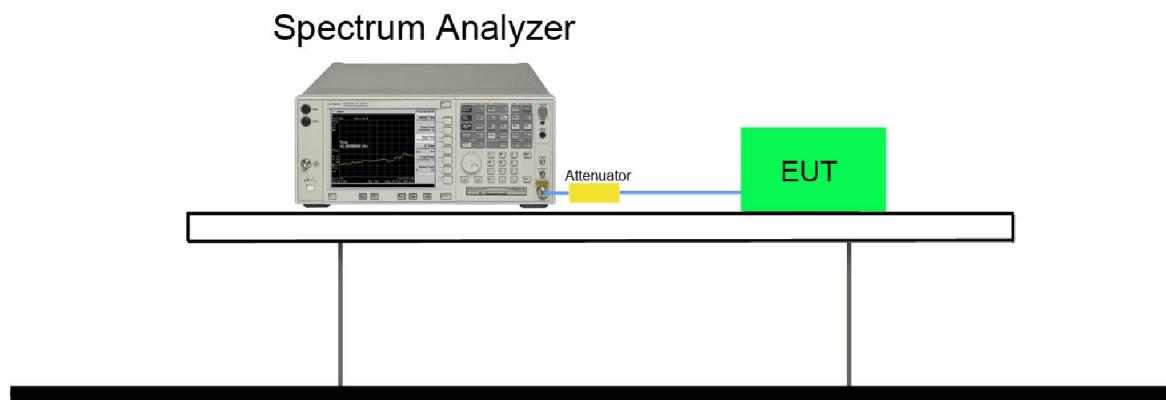
1.1.7. Test Procedure used

KDB 789033 D02v01r03 – Section C.2

1.1.8. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

1.1.9. Test Setup



1.1.10. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1						
802.11a	6	149	5745	16.34	≥ 0.5	Pass
802.11a	6	157	5785	16.35	≥ 0.5	Pass
802.11a	6	165	5825	16.34	≥ 0.5	Pass
802.11n-HT20	26	149	5745	16.91	≥ 0.5	Pass
802.11n-HT20	26	157	5785	17.58	≥ 0.5	Pass
802.11n-HT20	26	165	5825	17.58	≥ 0.5	Pass
802.11n-HT40	54	151	5755	36.33	≥ 0.5	Pass
802.11n-HT40	54	159	5795	36.37	≥ 0.5	Pass
802.11ac-VHT20	26	149	5745	16.91	≥ 0.5	Pass
802.11ac-VHT20	26	157	5785	17.59	≥ 0.5	Pass
802.11ac-VHT20	26	165	5825	17.59	≥ 0.5	Pass
802.11ac-VHT40	54	151	5755	36.35	≥ 0.5	Pass
802.11ac-VHT40	54	159	5795	36.33	≥ 0.5	Pass
802.11ac-VHT80	117.2	155	5775	75.38	≥ 0.5	Pass
Ant 1 / Ant 0 + 1						
802.11a	6	149	5745	16.35	≥ 0.5	Pass
802.11a	6	157	5785	16.35	≥ 0.5	Pass
802.11a	6	165	5825	16.35	≥ 0.5	Pass
802.11n-HT20	26	149	5745	17.04	≥ 0.5	Pass
802.11n-HT20	26	157	5785	17.61	≥ 0.5	Pass
802.11n-HT20	26	165	5825	17.61	≥ 0.5	Pass
802.11n-HT40	54	151	5755	36.35	≥ 0.5	Pass
802.11n-HT40	54	159	5795	36.33	≥ 0.5	Pass
802.11ac-VHT20	26	149	5745	17.04	≥ 0.5	Pass
802.11ac-VHT20	26	157	5785	17.39	≥ 0.5	Pass
802.11ac-VHT20	26	165	5825	17.25	≥ 0.5	Pass
802.11ac-VHT40	54	151	5755	36.33	≥ 0.5	Pass
802.11ac-VHT40	54	159	5795	36.05	≥ 0.5	Pass
802.11ac-VHT80	117.2	155	5775	75.94	≥ 0.5	Pass

