

3.4 6dB Bandwidth

3.4.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

3.4.2 Test Procedure

Test Method	
<input checked="" type="radio"/> Conducted Measurement	<input type="radio"/> Radiated Measurement
Test Channels	
<input checked="" type="radio"/> Lowest, Middle and Highest Channel	<input type="radio"/> Lowest and Highest Channel
Environmental conditions	
<input checked="" type="radio"/> Normal	<input type="radio"/> Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT was connected to the tonscend test system, and the spectrum analyser is set as follow:

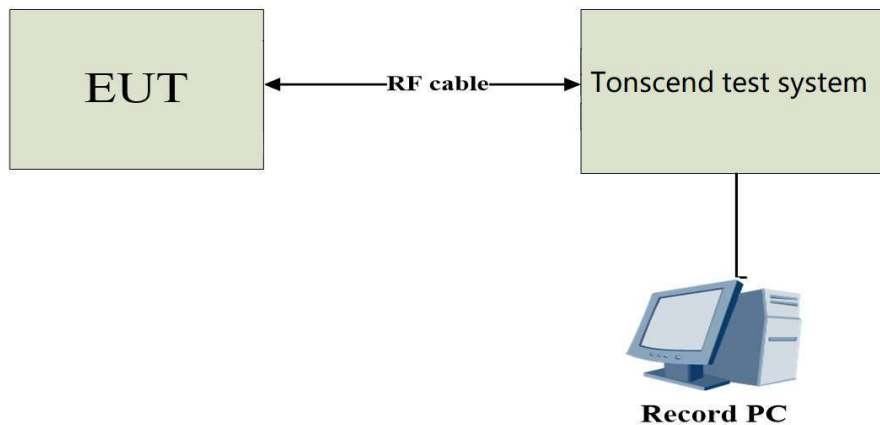
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the -6dB bandwidth function of the spectrum analyser to measure the 6dB Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.4.3 Test Setup



3.4.4 Test Result

DTS Bandwidth

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	7.560	2407.960	2415.520	0.5	PASS
	Ant2	2412	7.000	2408.480	2415.480	0.5	PASS
	Ant1	2437	6.560	2433.480	2440.040	0.5	PASS
	Ant2	2437	7.040	2433.480	2440.520	0.5	PASS
	Ant1	2462	7.560	2457.960	2465.520	0.5	PASS
	Ant2	2462	6.560	2458.920	2465.480	0.5	PASS
11G-CDD	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
	Ant2	2412	13.800	2404.480	2418.280	0.5	PASS
	Ant1	2437	15.040	2429.480	2444.520	0.5	PASS
	Ant2	2437	15.040	2429.480	2444.520	0.5	PASS
	Ant1	2462	15.080	2454.440	2469.520	0.5	PASS
	Ant2	2462	15.040	2454.480	2469.520	0.5	PASS
11N20MIMO	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
	Ant2	2412	15.120	2404.440	2419.560	0.5	PASS
	Ant1	2437	13.840	2430.680	2444.520	0.5	PASS
	Ant2	2437	15.040	2429.480	2444.520	0.5	PASS
	Ant1	2462	13.800	2455.720	2469.520	0.5	PASS
	Ant2	2462	15.080	2454.440	2469.520	0.5	PASS
11N40MIMO	Ant1	2422	22.560	2406.960	2429.520	0.5	PASS
	Ant2	2422	30.000	2405.760	2435.760	0.5	PASS
	Ant1	2437	32.560	2419.480	2452.040	0.5	PASS
	Ant2	2437	31.280	2421.960	2453.240	0.5	PASS
	Ant1	2452	32.560	2436.960	2469.520	0.5	PASS
	Ant2	2452	33.760	2435.760	2469.520	0.5	PASS
11AX20MIMO	Ant1	2412	18.920	2402.560	2421.480	0.5	PASS
	Ant2	2412	18.680	2402.600	2421.280	0.5	PASS
	Ant1	2437	18.560	2427.800	2446.360	0.5	PASS
	Ant2	2437	18.920	2427.560	2446.480	0.5	PASS
	Ant1	2462	18.680	2452.760	2471.440	0.5	PASS
	Ant2	2462	18.680	2452.600	2471.280	0.5	PASS
11AX40MIMO	Ant1	2422	37.440	2403.200	2440.640	0.5	PASS
	Ant2	2422	37.280	2403.200	2440.480	0.5	PASS
	Ant1	2437	36.480	2419.160	2455.640	0.5	PASS
	Ant2	2437	37.200	2418.520	2455.720	0.5	PASS
	Ant1	2452	35.680	2434.320	2470.000	0.5	PASS
	Ant2	2452	37.120	2433.600	2470.720	0.5	PASS

