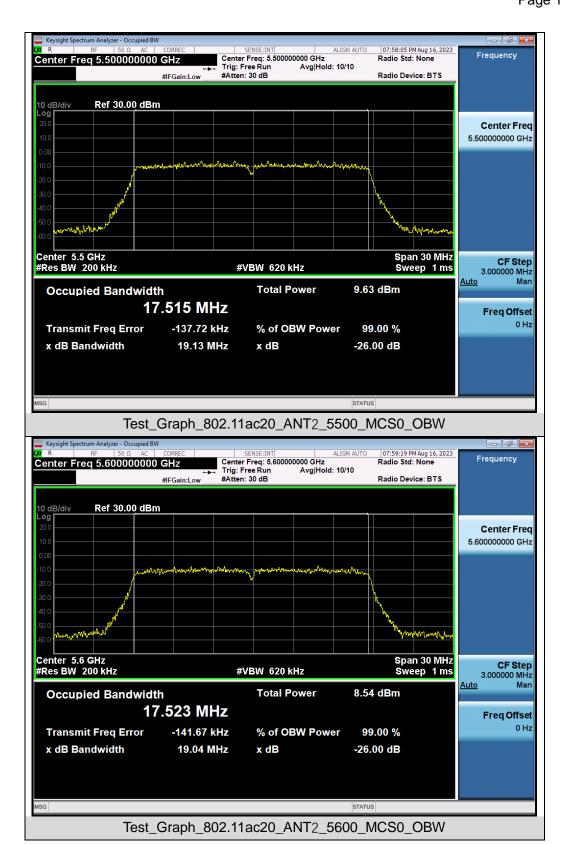


Web: http://www.agccert.com/

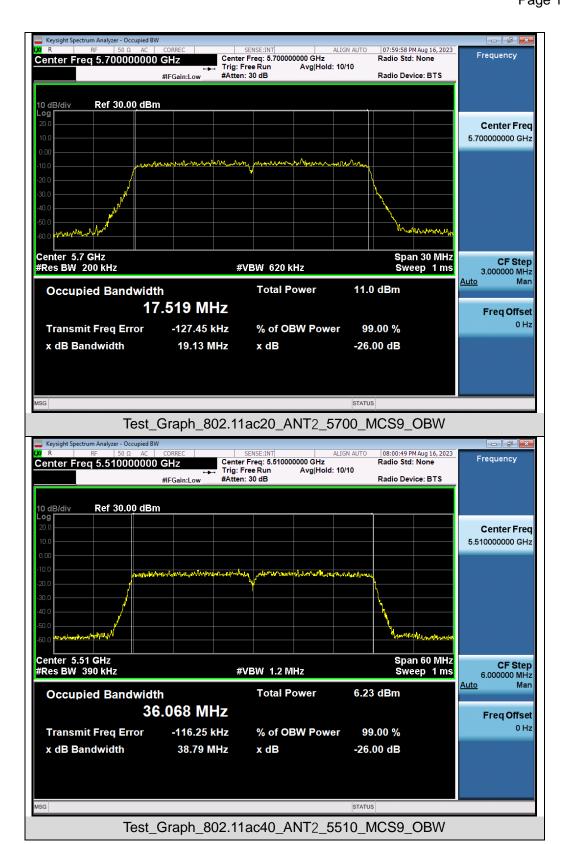






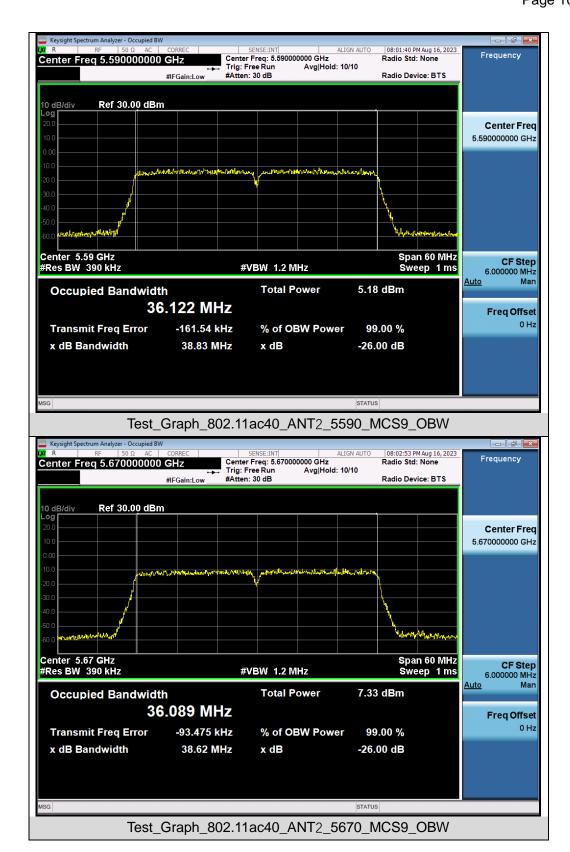






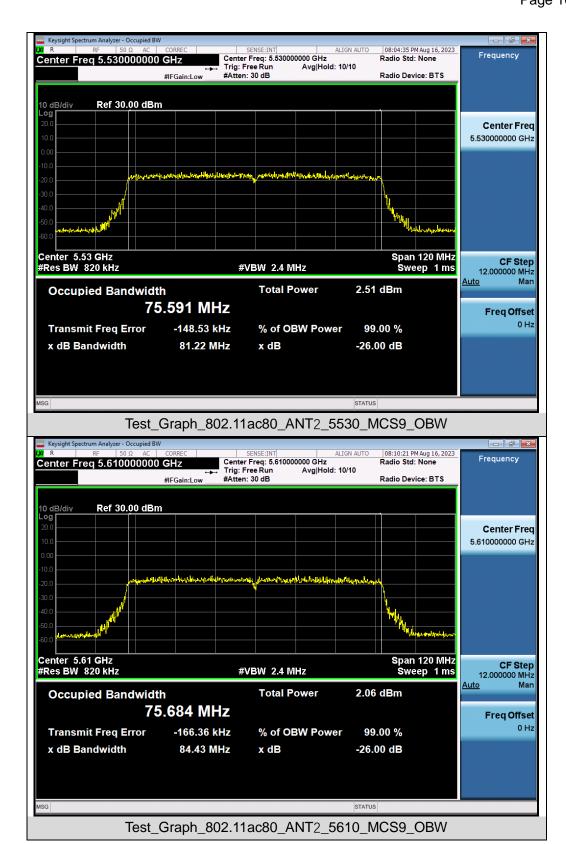






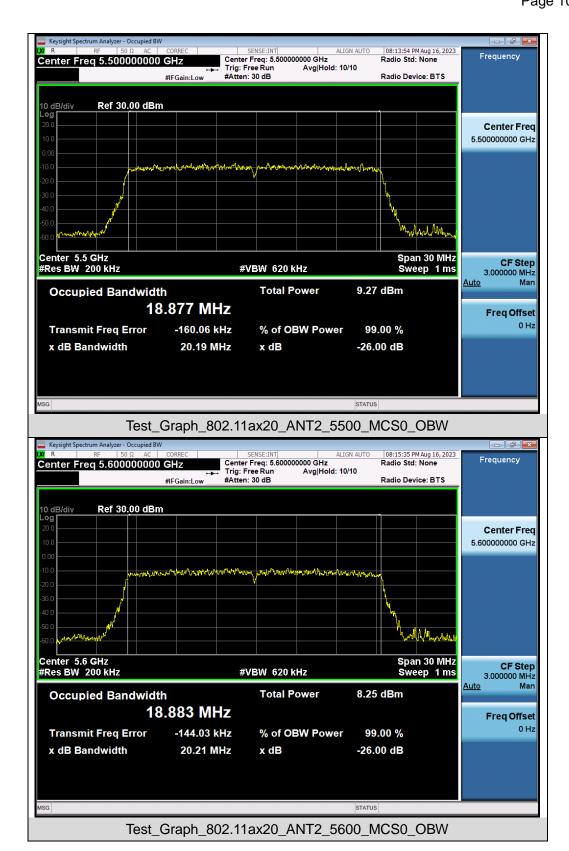






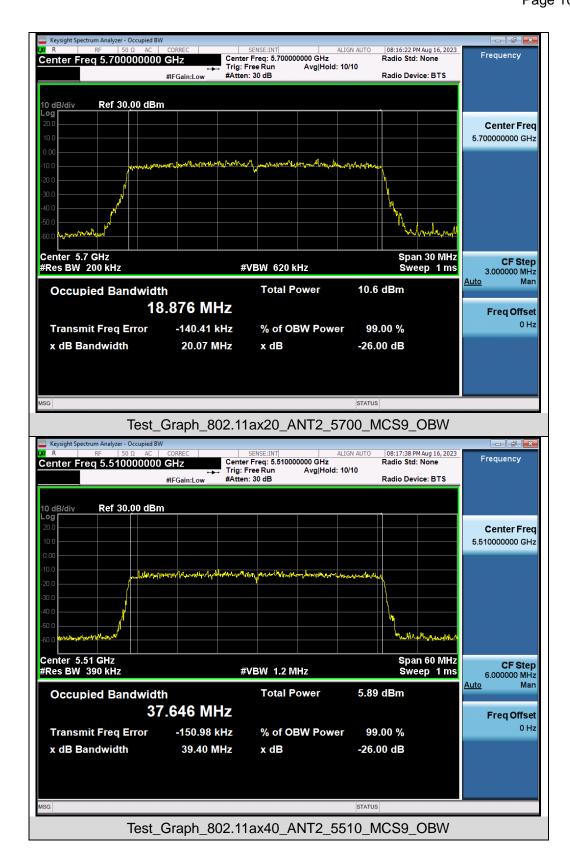


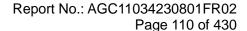




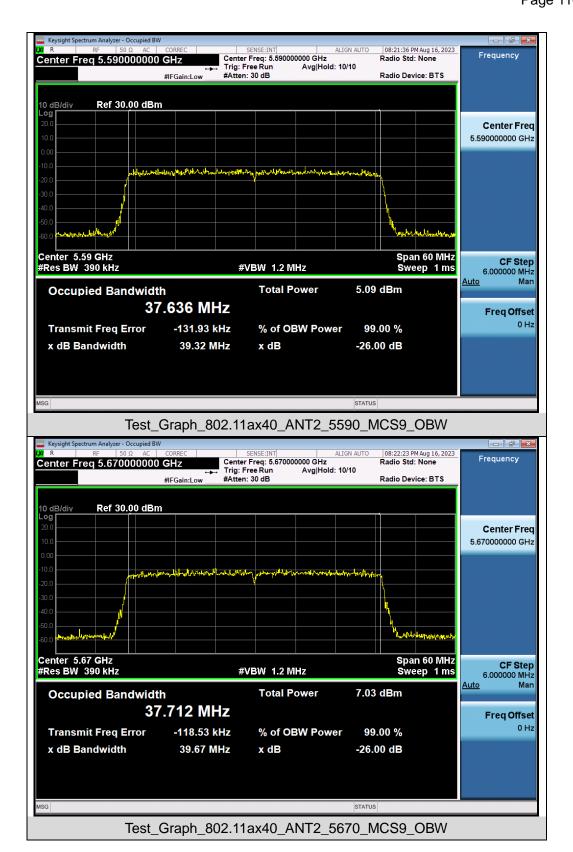


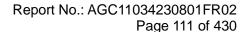




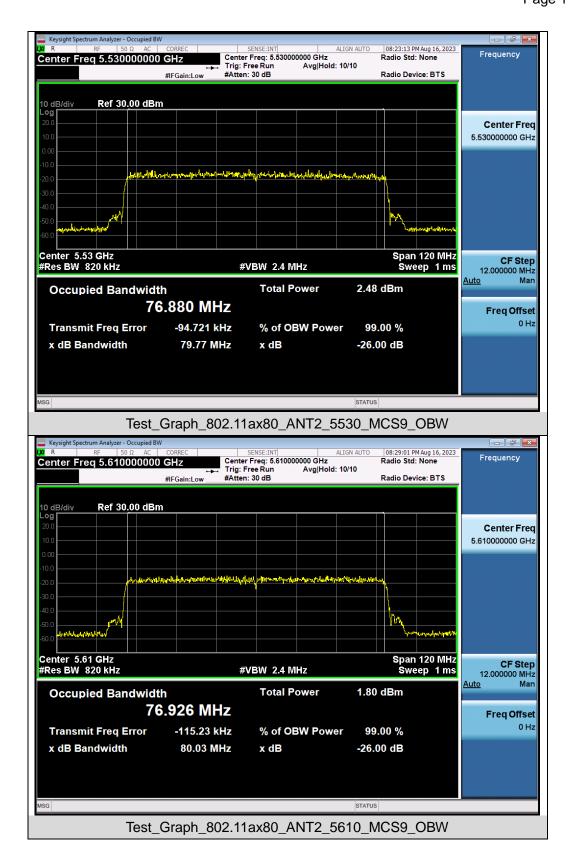


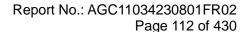






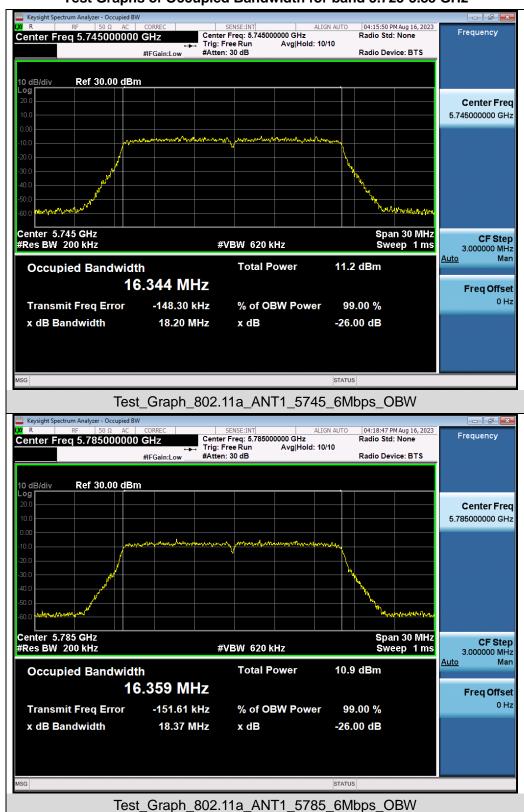


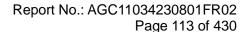




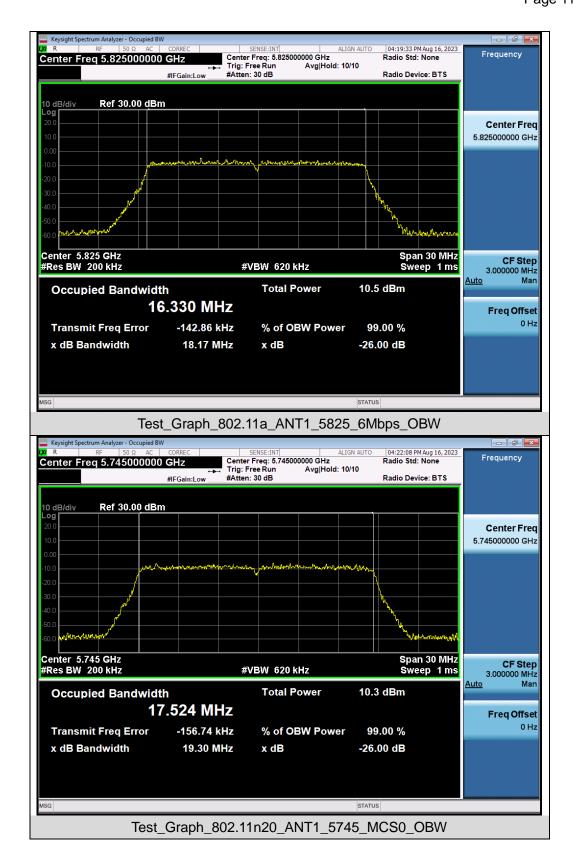


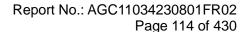
Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



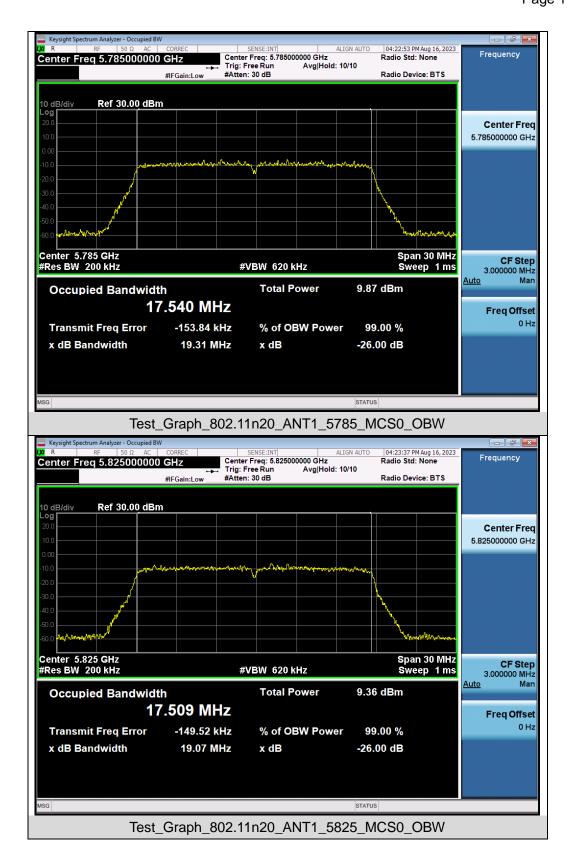


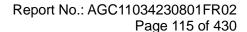




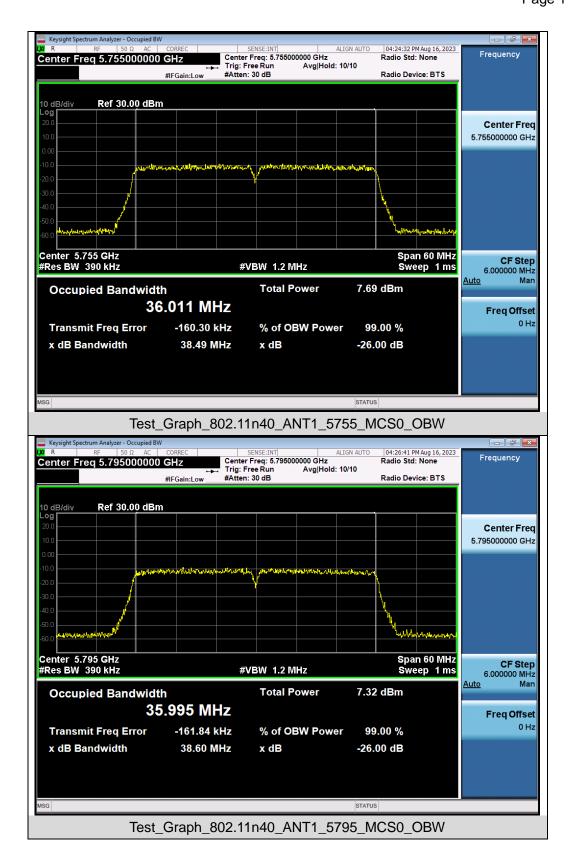


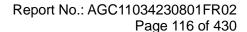




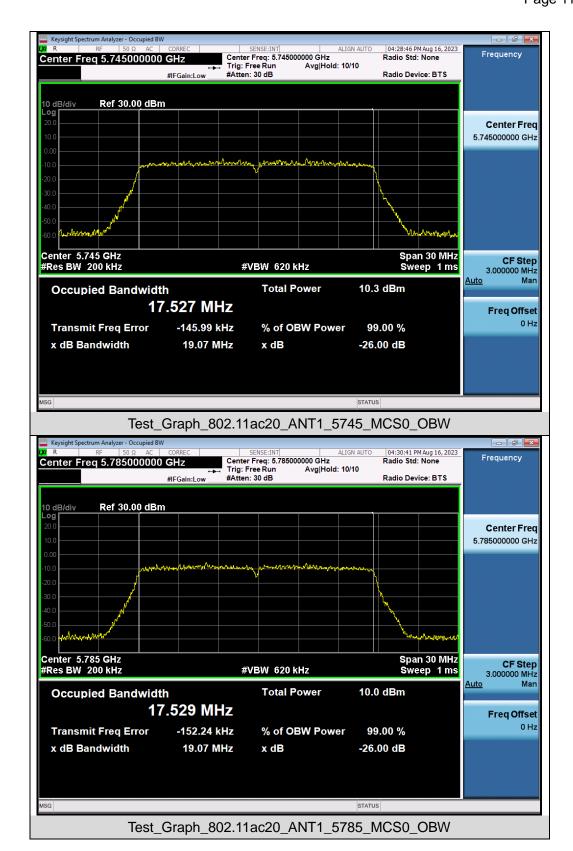


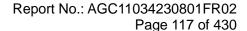




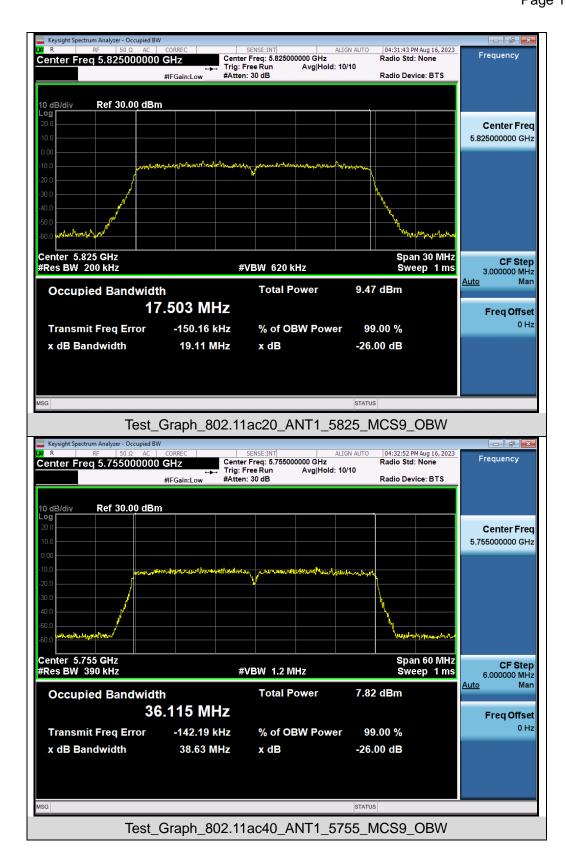


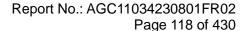




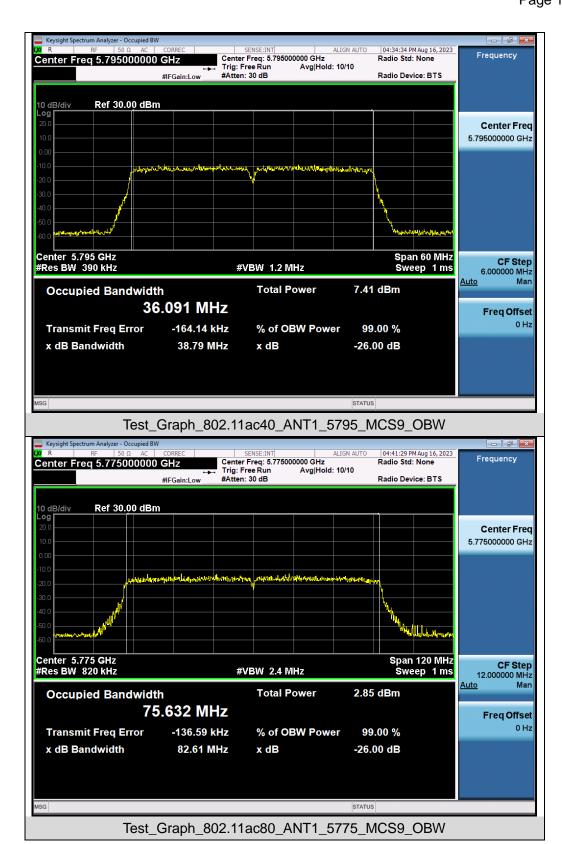


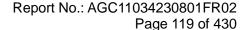




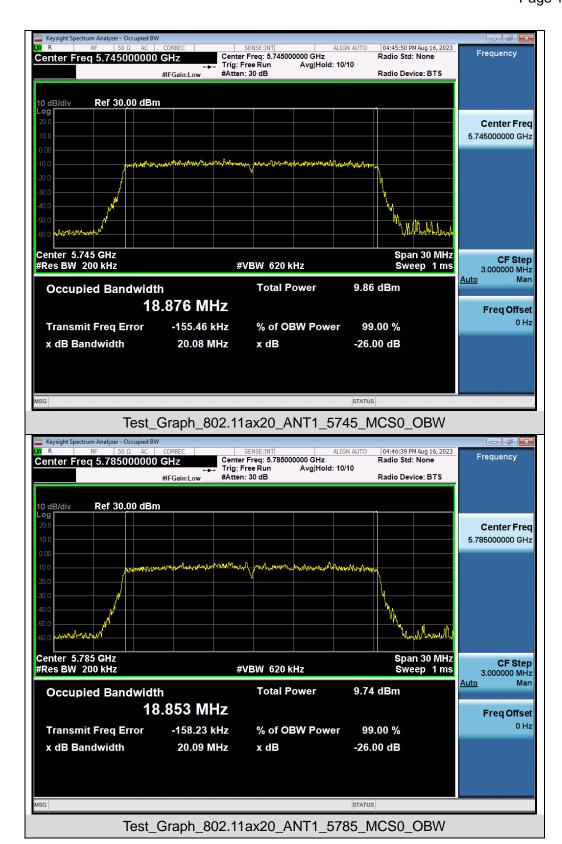






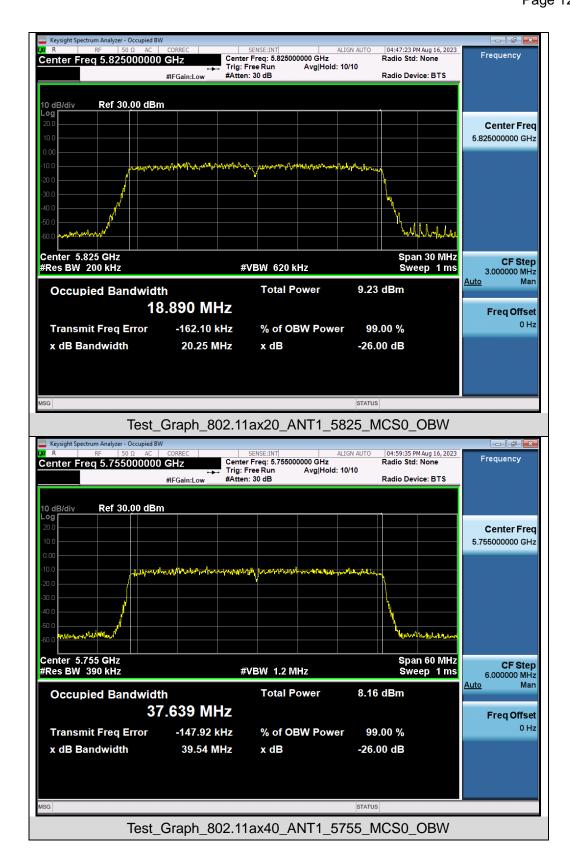






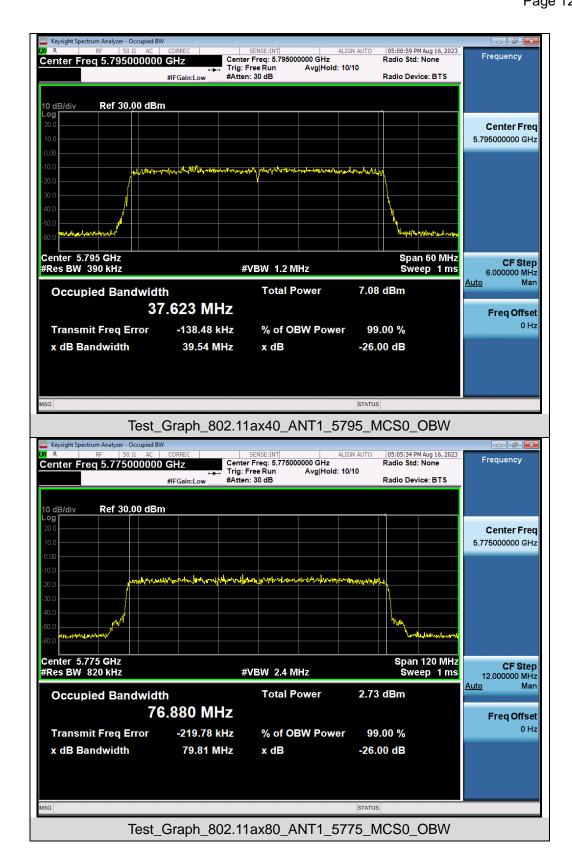






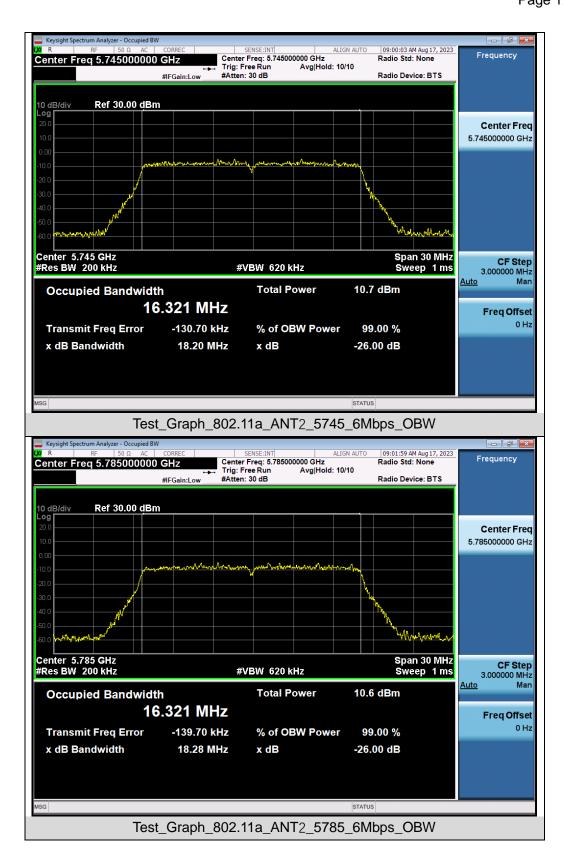






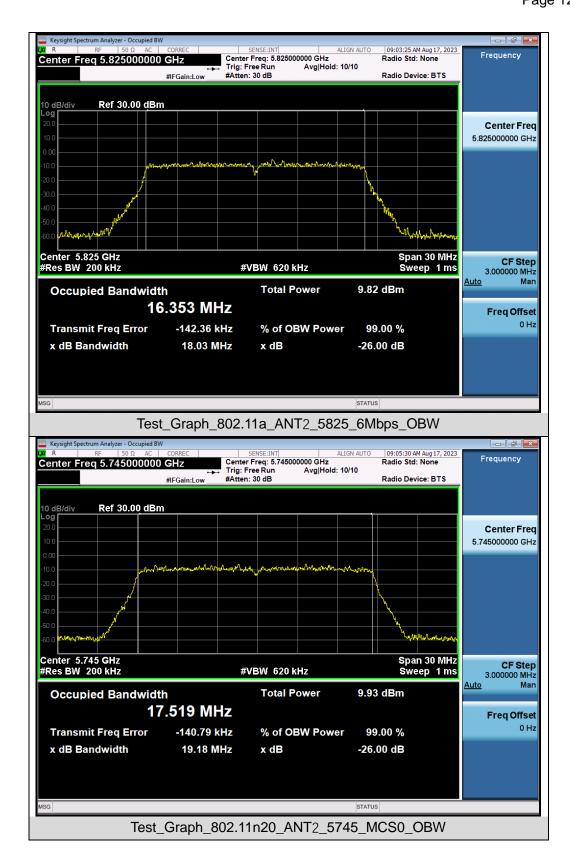






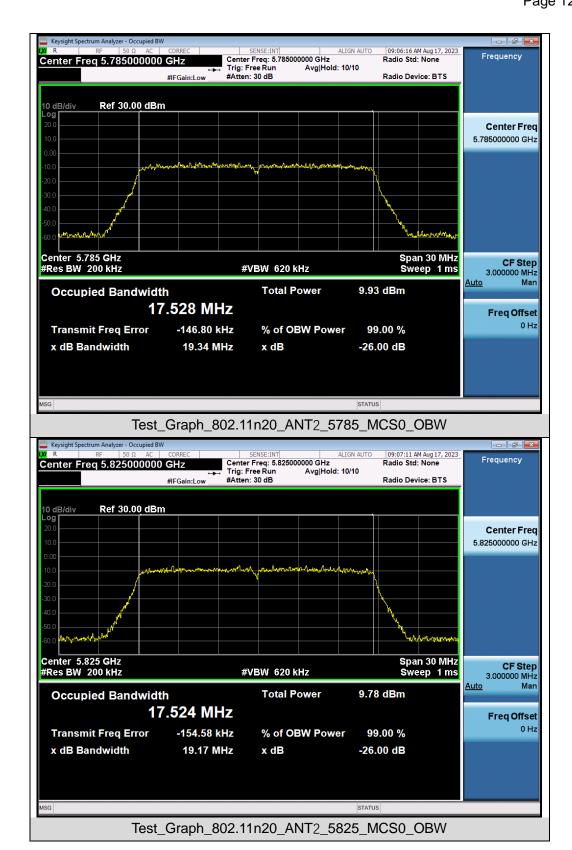






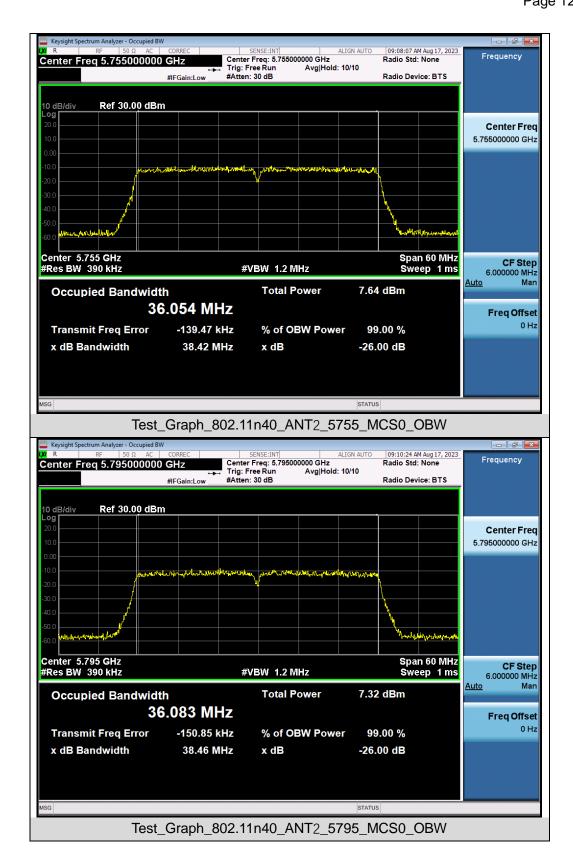






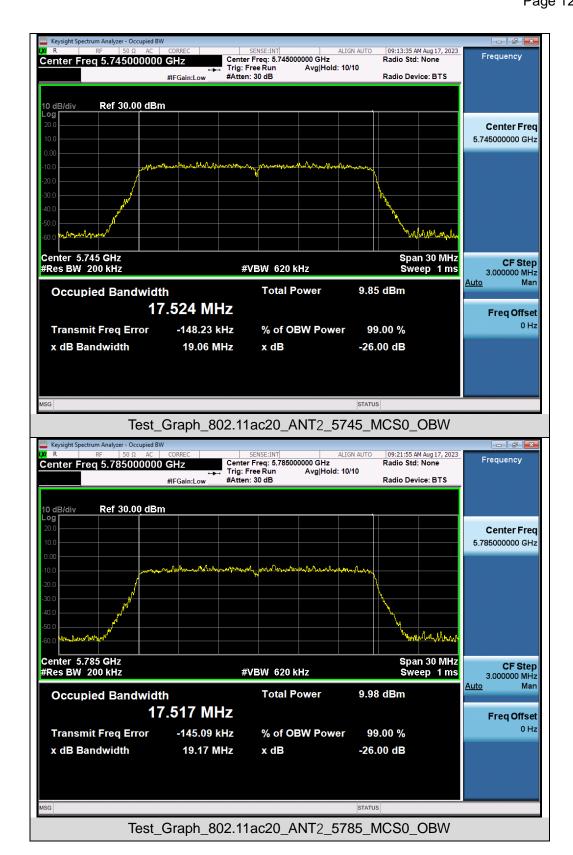






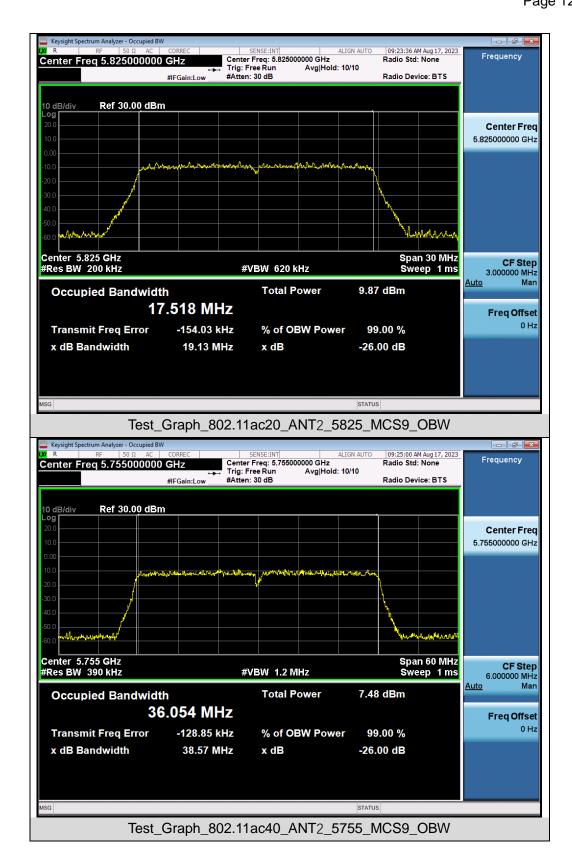






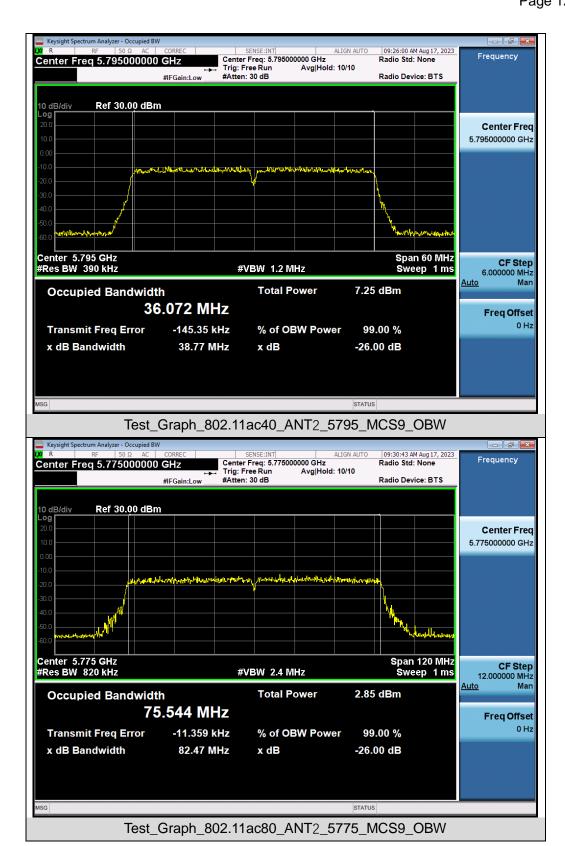






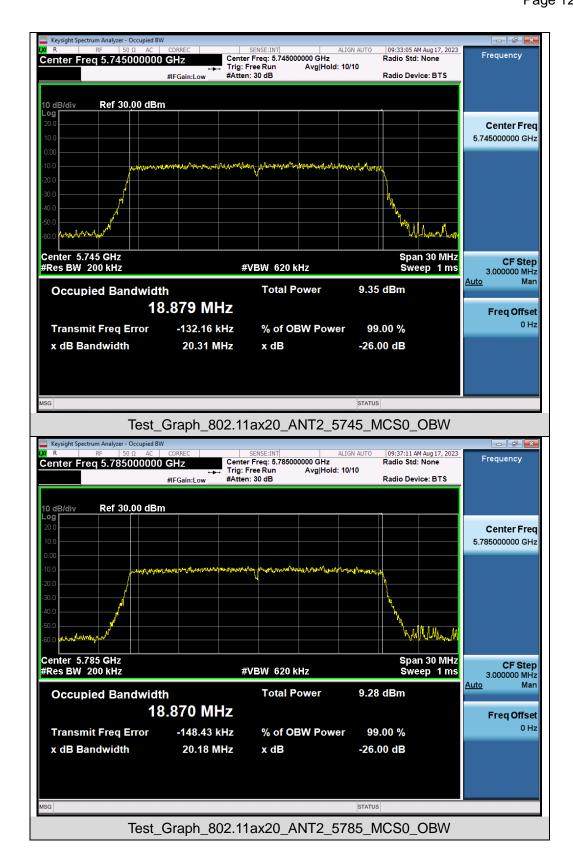






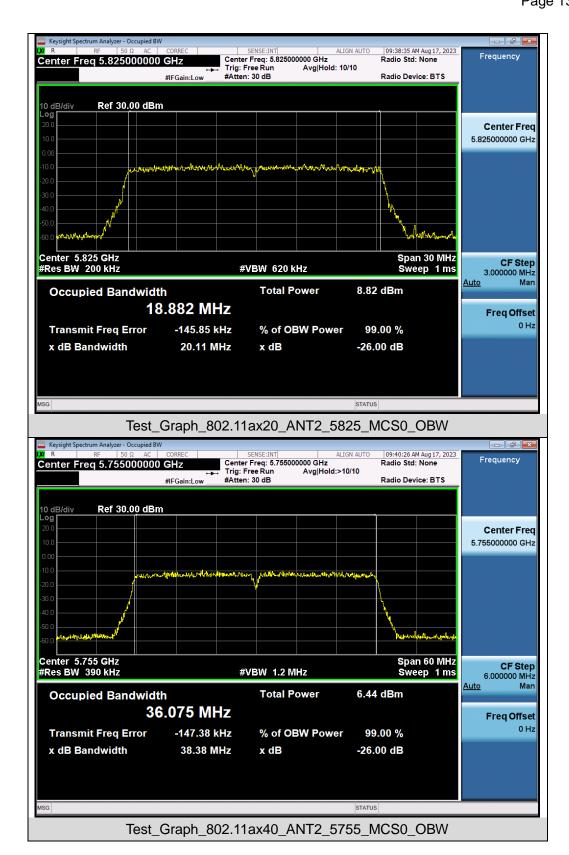






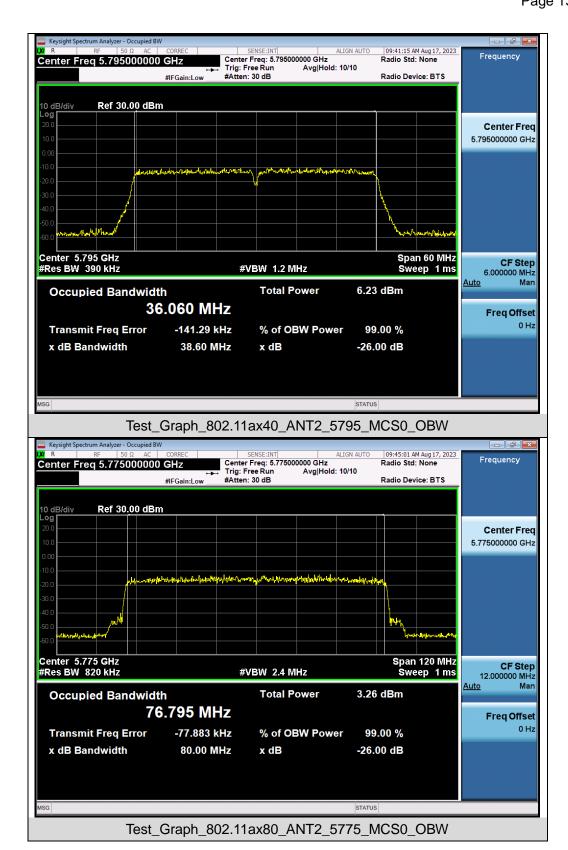








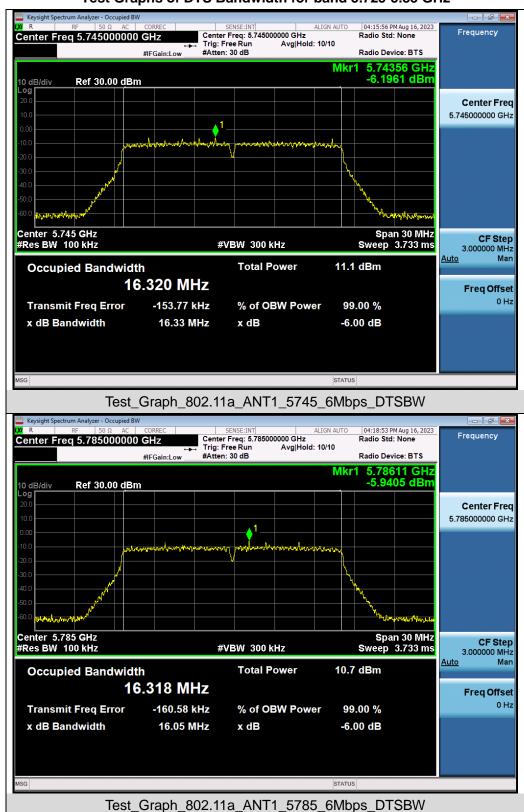






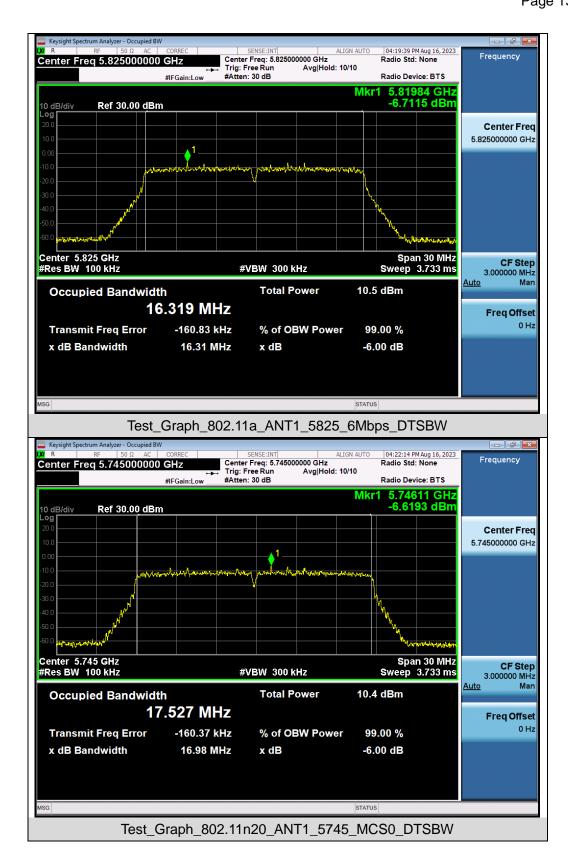


Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



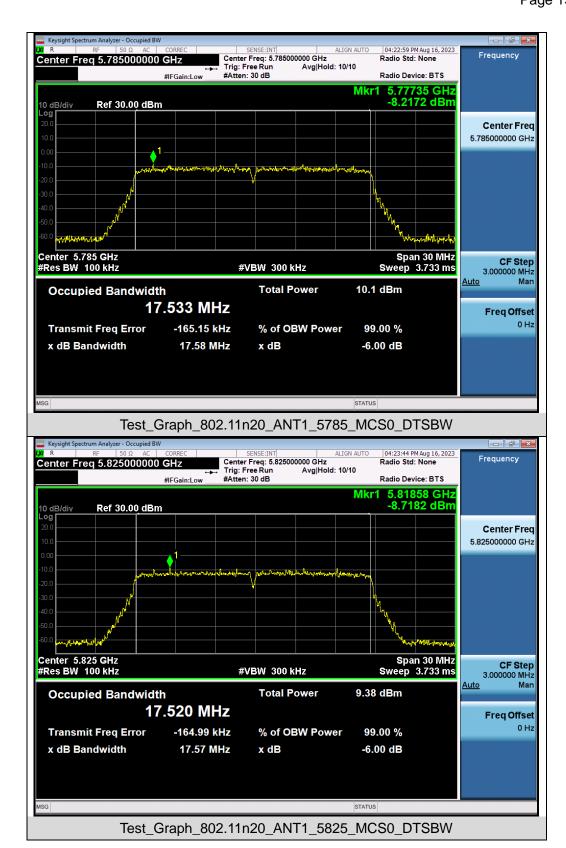






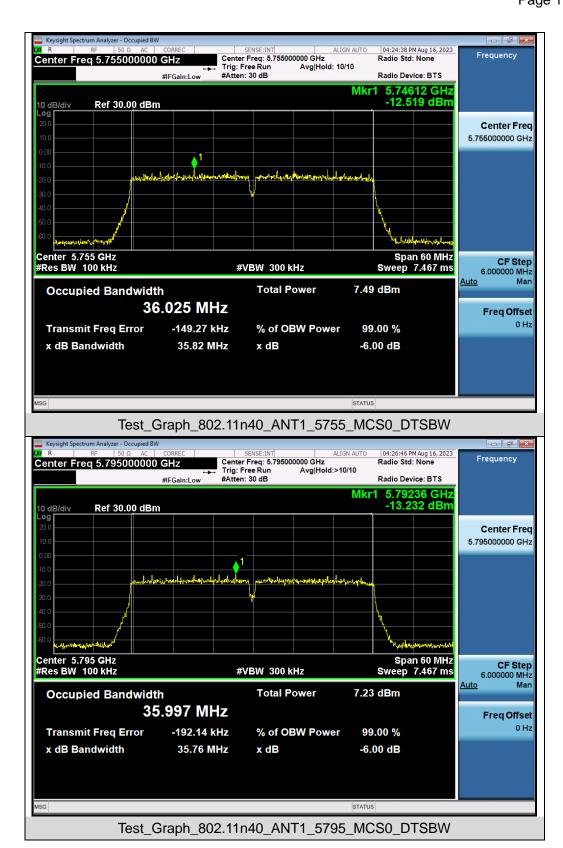






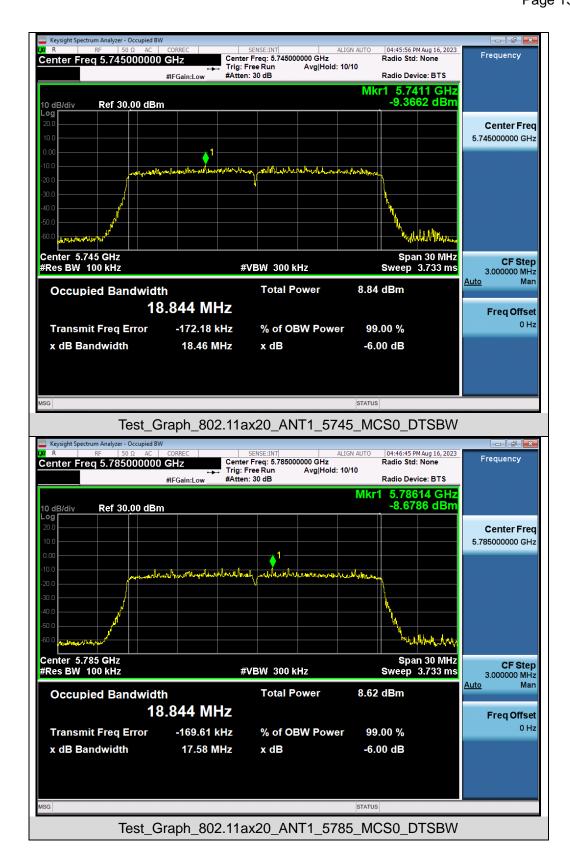






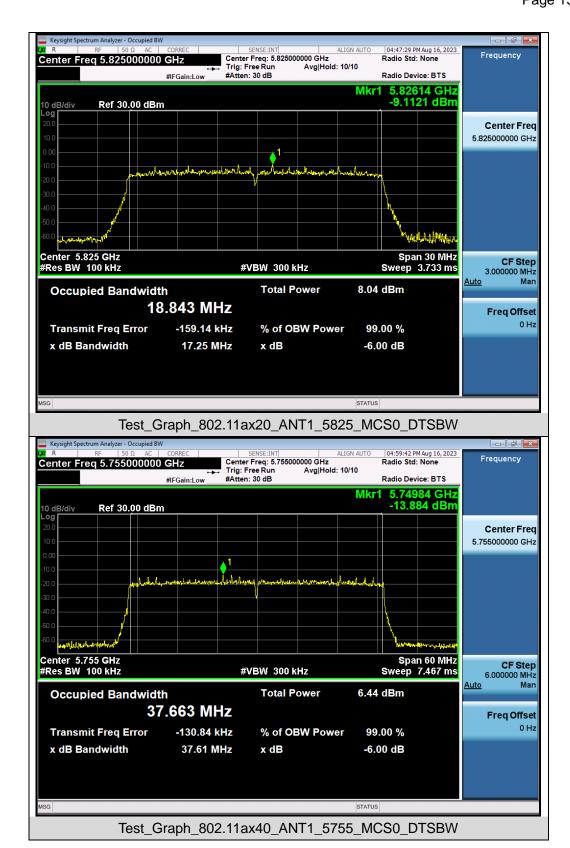






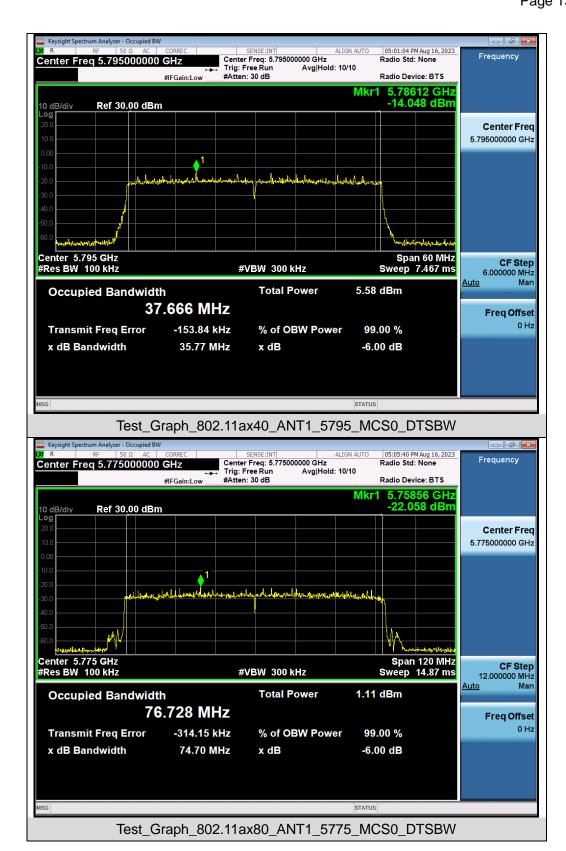






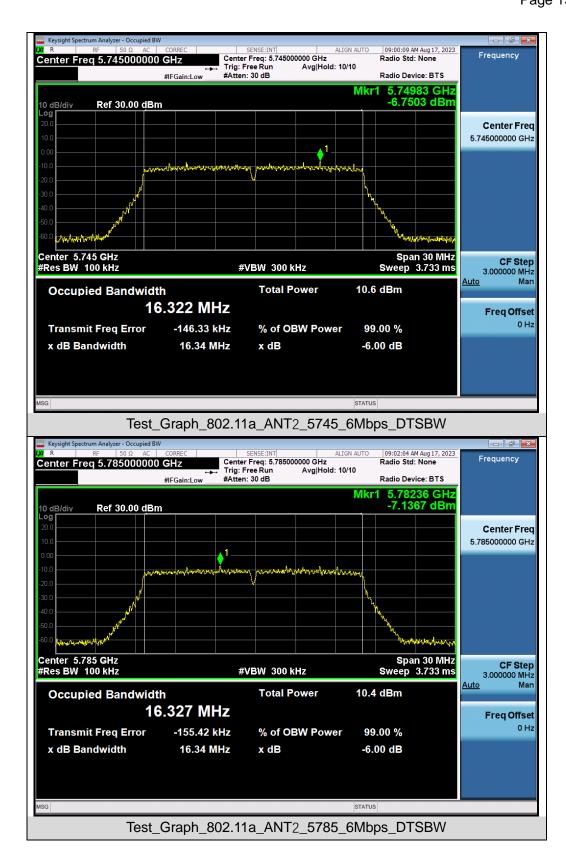






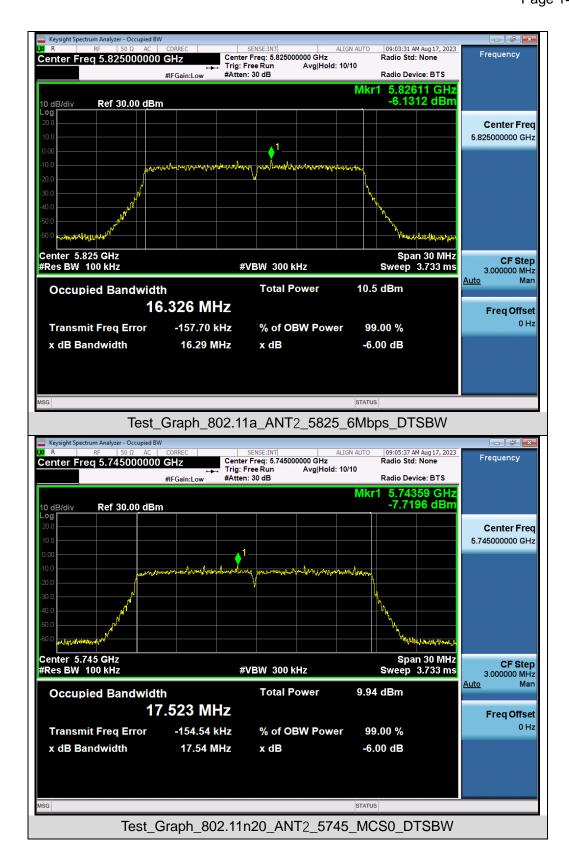






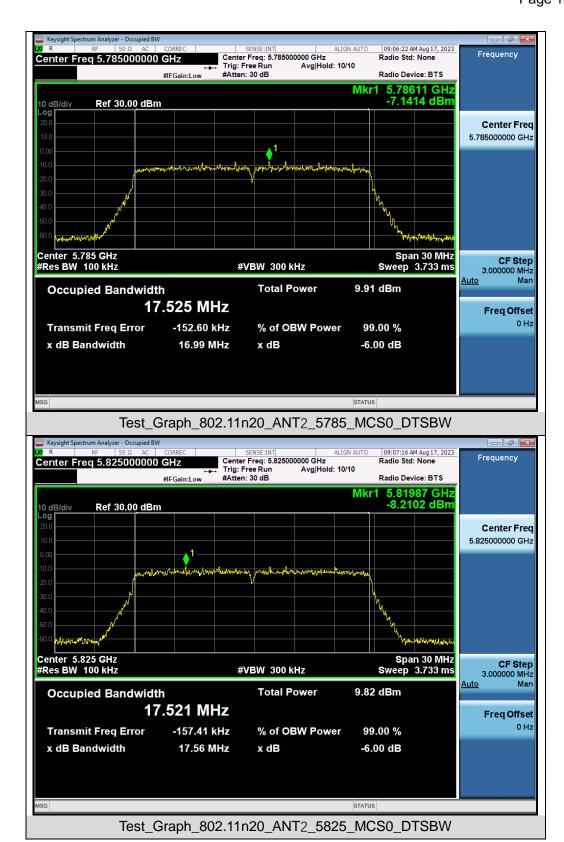






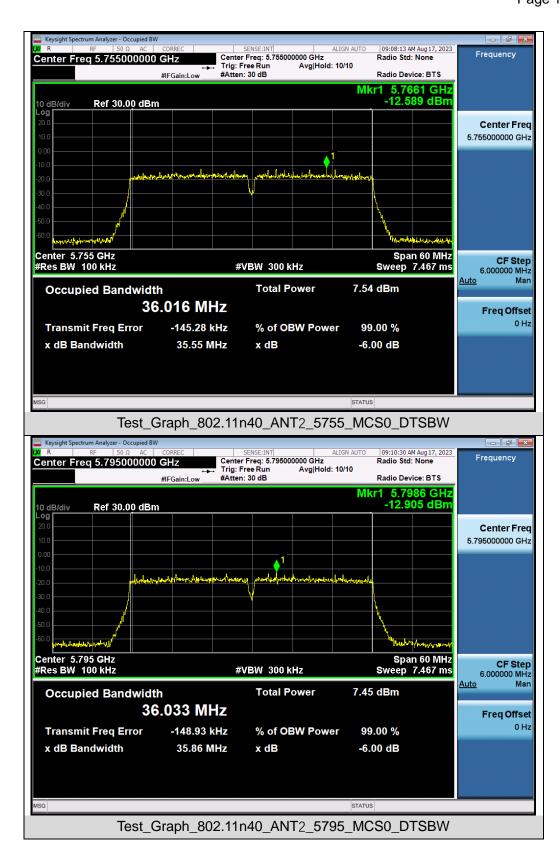






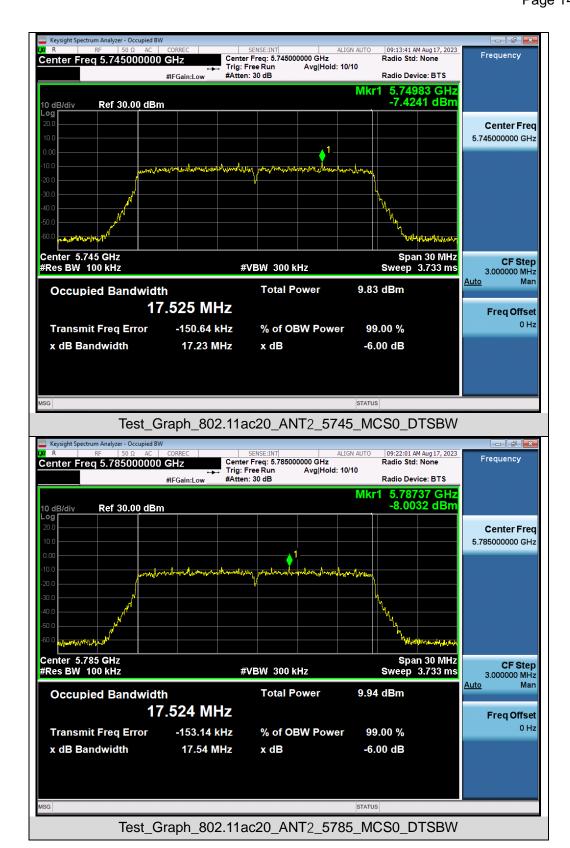






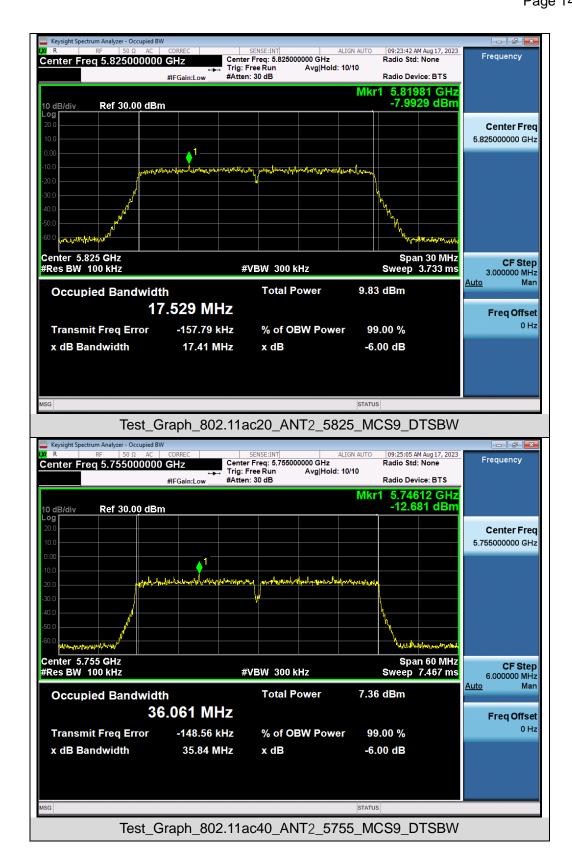






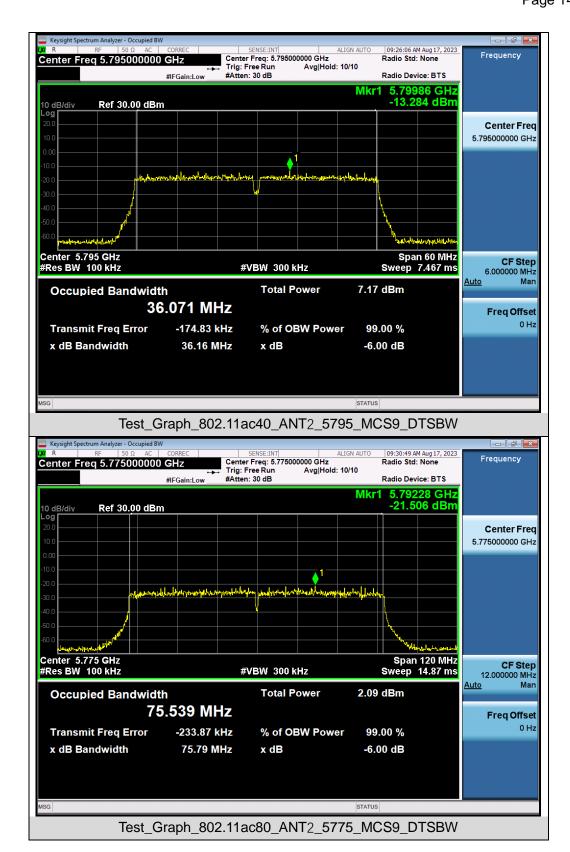






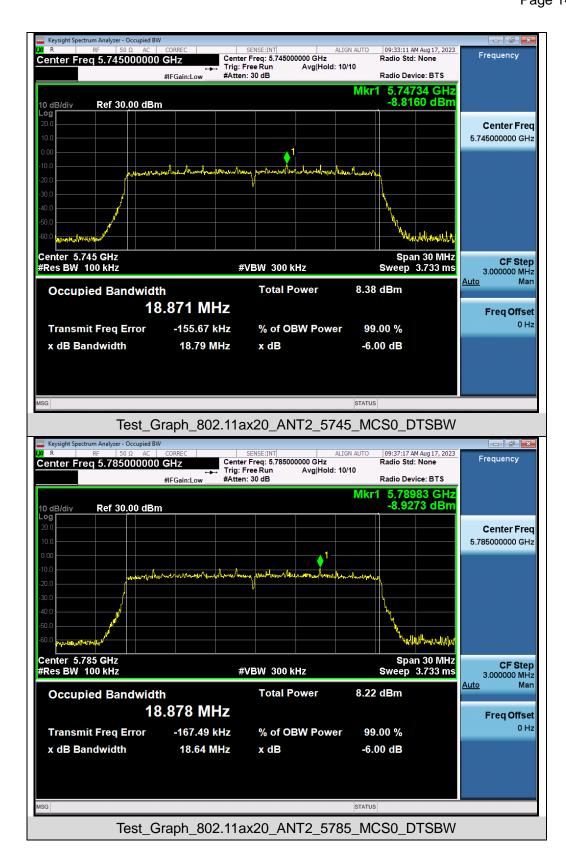






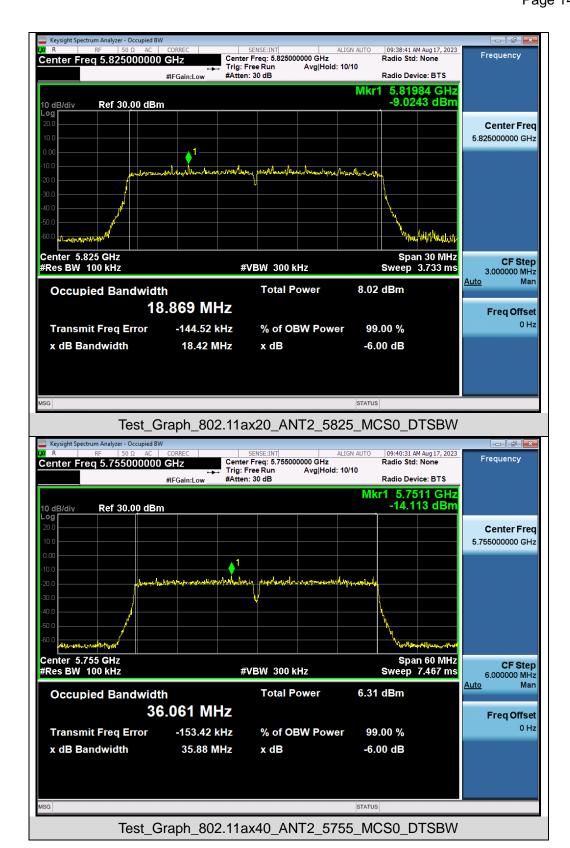






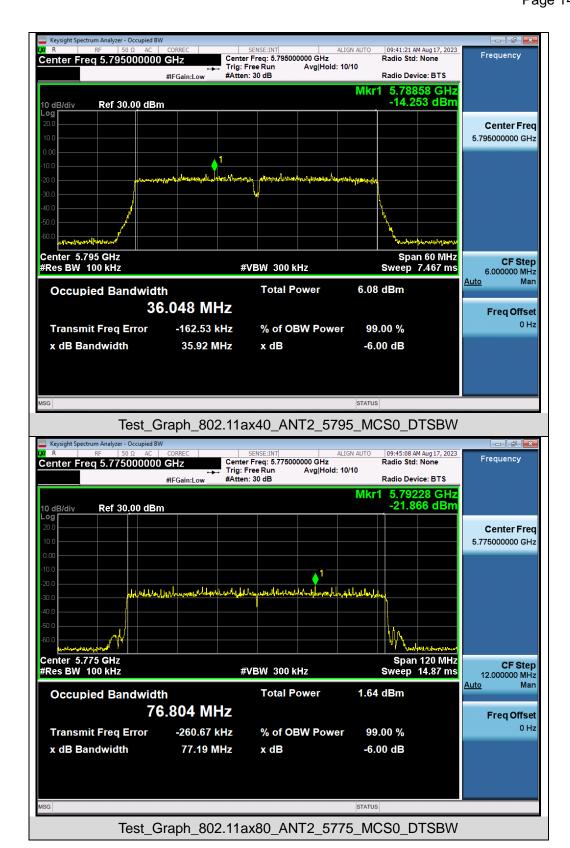














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9. POWER SPECTRAL DENSITY MEASUREMENT

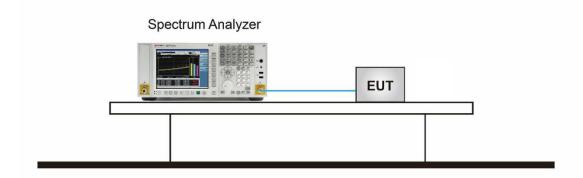
9.1 MEASUREMENT LIMITS

Operation Band	EUT Category		LIMIT
		Outdoor Access Point	17dBm/ MHz
U-NII-1		Fixed point-to-point Access Point	17dBm/ MHz
U-INII- I		Indoor Access Point	17dBm/ MHz
		Client devices	11dBm/ MHz
U-NII-2A		/	11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyze.
- 2. Span was set to encompass the entire 26dB EBW of the signal.
- 3. RBW = 1MHz.
- 4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
- 5. Set VBW≥[3×RBW].
- 6. Sweep Time=Auto couple.
- 7. Detector function=RMS (i.e., power averaging).
- 8. Trace average at least 100 traces in power averaging (rms) mode.
- 9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor 10*log(500kHz/100kHz) = 6.99 dB to the measured result.
- 10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 11. Add [10 log (1/D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.
- 12. Record the test results in the report.

9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





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9.4 MEASUREMENT RESULT

Te	st Data of Conducte	ed Output Power Density for band	5.15-5.25 GHz-AN	IT 1
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5180	0.458	11	Pass
802.11a	5200	0.601	11	Pass
	5240	-0.009	11	Pass
	5180	-0.176	11	Pass
802.11n20	5200	-0.043	11	Pass
	5240	-0.373	11	Pass
802.11n40	5190	-2.321	11	Pass
002.111140	5230	-3.141	11	Pass
	5180	0.340	11	Pass
802.11ac20	5200	-0.118	11	Pass
	5240	-0.181	11	Pass
000 44 40	5190	-1.844	11	Pass
802.11ac40	5230	-1.701	11	Pass
802.11ac80	5210	-6.720	11	Pass
	5180	-0.540	11	Pass
802.11ax20	5200	-1.029	11	Pass
	5240	-0.311	11	Pass
000 44 - 440	5190	-2.787	11	Pass
802.11ax40	5230	-4.149	11	Pass
802.11ax80	5210	-7.783	11	Pass



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Те	st Data of Conduct	ed Output Power Density for band	5.15-5.25 GHz-AN	IT 2
Test Mode	Test Channel (MHz)	,		Pass or Fail
	5180	-0.115	11	Pass
802.11a	5200	-0.645	11	Pass
	5240	-0.962	11	Pass
	5180	-0.935	11	Pass
802.11n20	5200	-1.264	11	Pass
	5240	-1.705	11	Pass
802.11n40	5190	-4.453	11	Pass
802.11N40	5230	-3.935	11	Pass
	5180	-0.903	11	Pass
802.11ac20	5200	-0.966	11	Pass
	5240	-1.338	11	Pass
802.11ac40	5190	-3.738	11	Pass
802.118040	5230	-3.195	11	Pass
802.11ac80	5210	-7.425	11	Pass
	5180	-1.261	11	Pass
802.11ax20	5200	-1.608	11	Pass
	5240	-2.708	11	Pass
000 11 av 40	5190	-3.255	11	Pass
802.11ax40	5230	-4.670	11	Pass
802.11ax80	5210	-7.658	11	Pass



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Те	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO					
Test Mode	Test Channel (MHz)	3		Pass or Fail		
	5180	2.471	10.53	Pass		
802.11n20	5200	2.400	10.53	Pass		
	5240	2.022	10.53	Pass		
802.11n40	5190	-0.247	10.53	Pass		
802.111140	5230	-0.510	10.53	Pass		
	5180	2.773	10.53	Pass		
802.11ac20	5200	2.489	10.53	Pass		
	5240	2.289	10.53	Pass		
802.11ac40	5190	0.322	10.53	Pass		
002.11ac40	5230	0.626	10.53	Pass		
802.11ac80	5210	-4.048	10.53	Pass		
	5180	2.125	10.53	Pass		
802.11ax20	5200	1.701	10.53	Pass		
	5240	1.664	10.53	Pass		
802.11ax40	5190	-0.004	10.53	Pass		
002.11ax40	5230	-1.391	10.53	Pass		
802.11ax80	5210	-4.710	10.53	Pass		



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Tes	Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-ANT 1					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5260	0.694	11	Pass		
802.11a	5300	0.975	11	Pass		
	5320	1.100	11	Pass		
	5260	0.131	11	Pass		
802.11n20	5300	-0.042	11	Pass		
	5320	0.069	11	Pass		
802.11n40	5270	-3.002	11	Pass		
002.111140	5310	-2.518	11	Pass		
	5260	0.269	11	Pass		
802.11ac20	5300	0.298	11	Pass		
	5320	0.093	11	Pass		
802.11ac40	5270	-2.160	11	Pass		
802.11ac40	5310	-2.624	11	Pass		
802.11ac80	5290	-6.793	11	Pass		
	5260	-0.944	11	Pass		
802.11ax20	5300	0.623	11	Pass		
	5320	-1.634	11	Pass		
002 11 ov 10	5270	-2.075	11	Pass		
802.11ax40	5310	-2.873	11	Pass		
802.11ac80	5290	-6.758	11	Pass		



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Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-ANT 2					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail	
	5260	-0.123	11	Pass	
802.11a	5300	-0.268	11	Pass	
	5320	-0.236	11	Pass	
	5260	-0.700	11	Pass	
802.11n20	5300	-1.231	11	Pass	
	5320	-1.104	11	Pass	
802.11n40	5270	-3.039	11	Pass	
802.111140	5310	-3.272	11	Pass	
	5260	-0.607	11	Pass	
802.11ac20	5300	-1.439	11	Pass	
	5320	-1.498	11	Pass	
000 44 40	5270	-2.841	11	Pass	
802.11ac40	5310	-3.194	11	Pass	
802.11ac80	5290	-7.115	11	Pass	
	5260	-1.585	11	Pass	
802.11ax20	5300	-2.227	11	Pass	
	5320	-2.089	11	Pass	
000 44 - 440	5270	-6.052	11	Pass	
802.11ax40	5310	-5.497	11	Pass	
802.11ac80	5290	-8.075	11	Pass	



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Tes	Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5260	2.746	10.53	Pass		
802.11n20	5300	2.414	10.53	Pass		
	5320	2.532	10.53	Pass		
802.11n40	5270	-0.01	10.53	Pass		
602.111140	5310	0.132	10.53	Pass		
	5260	2.863	10.53	Pass		
802.11ac20	5300	2.526	10.53	Pass		
	5320	2.380	10.53	Pass		
802.11ac40	5270	0.523	10.53	Pass		
602.11ac40	5310	0.111	10.53	Pass		
802.11ac80	5290	-3.941	10.53	Pass		
	5260	1.758	10.53	Pass		
802.11ax20	5300	2.438	10.53	Pass		
	5320	1.155	10.53	Pass		
802.11ax40	5270	-0.613	10.53	Pass		
002.118X40	5310	-0.979	10.53	Pass		
802.11ac80	5290	-4.356	10.53	Pass		



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Test	t Data of Conducted C	Output Power Density for band 5.	47-5.725 GHz-AN	Т1
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	0.610	11	Pass
802.11a	5600	0.130	11	Pass
	5700	1.392	11	Pass
	5500	0.051	11	Pass
802.11n20	5600	-0.538	11	Pass
	5700	0.728	11	Pass
	5510	-3.762	11	Pass
802.11n40	5590	-4.446	11	Pass
	5670	-2.750	11	Pass
	5500	0.256	11	Pass
802.11ac20	5600	0.270	11	Pass
	5700	0.806	11	Pass
	5510	-2.908	11	Pass
802.11ac40	5590	-3.106	11	Pass
	5670	-3.018	11	Pass
000 44 00	5530	-5.060	11	Pass
802.11ac80	5610	-6.959	11	Pass
	5500	-1.044	11	Pass
802.11ax20	5600	-0.325	11	Pass
	5700	0.259	11	Pass
	5510	-4.187	11	Pass
802.11ax40	5590	-4.600	11	Pass
	5670	-4.056	11	Pass
000 44 00	5530	-6.771	11	Pass
802.11ax80	5610	-9.135	11	Pass



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Tes	t Data of Conducted C	Output Power Density for band 5	47-5.725 GHz-AN	Т 2
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	-0.611	11	Pass
802.11a	5600	-1.426	11	Pass
	5700	0.701	11	Pass
	5500	-1.245	11	Pass
802.11n20	5600	-2.382	11	Pass
	5700	0.006	11	Pass
	5510	-4.336	11	Pass
802.11n40	5590	-5.366	11	Pass
	5670	-2.916	11	Pass
	5500	-1.479	11	Pass
802.11ac20	5600	-2.590	11	Pass
	5700	-0.185	11	Pass
	5510	-4.469	11	Pass
802.11ac40	5590	-5.359	11	Pass
	5670	-3.444	11	Pass
000 4400	5530	-6.571	11	Pass
802.11ac80	5610	-7.396	11	Pass
	5500	-2.176	11	Pass
802.11ax20	5600	-3.166	11	Pass
	5700	-2.079	11	Pass
	5510	-6.094	11	Pass
802.11ax40	5590	-5.747	11	Pass
	5670	-4.404	11	Pass
000 4400	5530	-8.430	11	Pass
802.11ax80	5610	-7.122	11	Pass



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Tes	t Data of Conducted	d Output Power Density for band 5.4	7-5.725 GHz-MI	МО
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	2.461	9.72	Pass
802.11n20	5600	1.647	9.72	Pass
	5700	3.392	9.72	Pass
	5510	-1.029	9.72	Pass
802.11n40	5590	-1.871	9.72	Pass
	5670	0.178	9.72	Pass
	5500	2.485	9.72	Pass
802.11ac20	5600	2.082	9.72	Pass
	5700	3.349	9.72	Pass
	5510	-0.608	9.72	Pass
802.11ac40	5590	-1.078	9.72	Pass
	5670	-0.215	9.72	Pass
802.11ac80	5530	-2.740	9.72	Pass
002.118000	5610	-4.162	9.72	Pass
	5500	1.437	9.72	Pass
802.11ax20	5600	1.493	9.72	Pass
	5700	2.256	9.72	Pass
	5510	-2.026	9.72	Pass
802.11ax40	5590	-2.125	9.72	Pass
	5670	-1.216	9.72	Pass
802.11ax80	5530	-4.511	9.72	Pass
002.114x00	5610	-5.003	9.72	Pass





Т	Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT 1							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail			
	5745	-8.358	-1.368	30	Pass			
802.11a	5785	-7.723	-0.733	30	Pass			
	5825	-9.332	-2.342	30	Pass			
	5745	-9.883	-2.893	30	Pass			
802.11n20	5785	-10.305	-3.315	30	Pass			
	5825	-11.018	-4.028	30	Pass			
802.11n40	5755	-12.252	-5.262	30	Pass			
802.111140	5795	-11.985	-4.995	30	Pass			
	5745	-9.533	-2.543	30	Pass			
802.11ac20	5785	-10.157	-3.167	30	Pass			
	5825	-10.631	-3.641	30	Pass			
000 44 = = 40	5755	-11.346	-4.356	30	Pass			
802.11ac40	5795	-12.356	-5.366	30	Pass			
802.11ac80	5775	-15.091	-8.101	30	Pass			
	5745	-10.917	-3.927	30	Pass			
802.11ax20	5785	-11.541	-4.551	30	Pass			
	5825	-11.984	-4.994	30	Pass			
902 11 av 40	5755	-13.046	-6.056	30	Pass			
802.11ax40	5795	-13.729	-6.739	30	Pass			
802.11ax80	5775	-17.024	-10.034	30	Pass			





7	Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT 2							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail			
	5745	-8.363	-1.373	30	Pass			
802.11a	5785	-8.304	-1.314	30	Pass			
	5825	-8.063	-1.073	30	Pass			
	5745	-10.241	-3.251	30	Pass			
802.11n20	5785	-9.654	-2.664	30	Pass			
	5825	-9.950	-2.960	30	Pass			
000 11 5 10	5755	-11.960	-4.970	30	Pass			
802.11n40	5795	-11.861	-4.871	30	Pass			
	5745	-9.802	-2.812	30	Pass			
802.11ac20	5785	-9.996	-3.006	30	Pass			
	5825	-10.179	-3.189	30	Pass			
902 11 2210	5755	-11.149	-4.159	30	Pass			
802.11ac40	5795	-12.604	-5.611	30	Pass			
802.11ac80	5775	-16.592	-9.602	30	Pass			
	5745	-11.661	-4.671	30	Pass			
802.11ax20	5785	-11.566	-4.576	30	Pass			
	5825	-11.940	-4.950	30	Pass			
902 11 ov 40	5755	-12.749	-5.759	30	Pass			
802.11ax40	5795	-12.476	-5.486	30	Pass			
802.11ax80	5775	-16.863	-9.873	30	Pass			