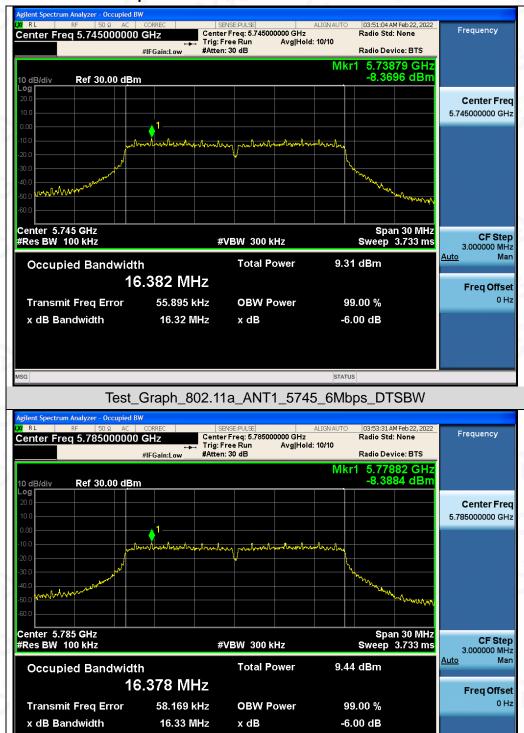




#### Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



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Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_DTSBW

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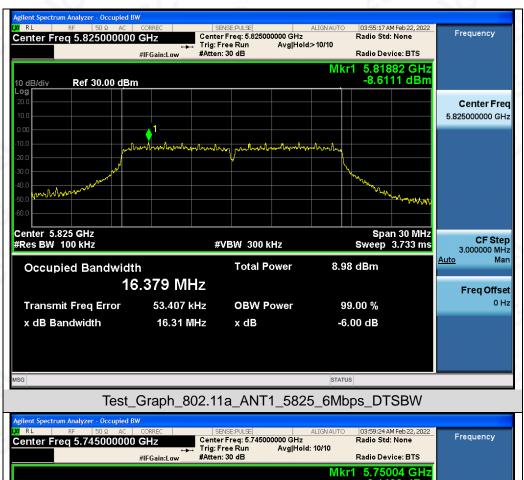
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

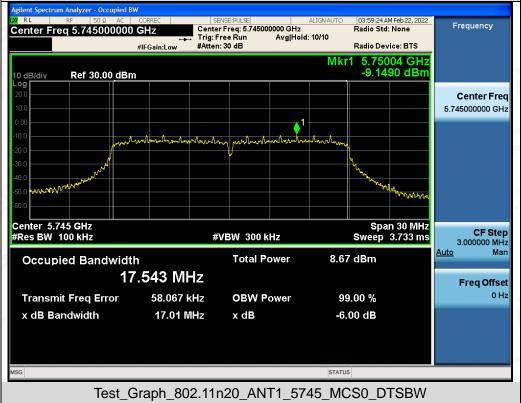
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



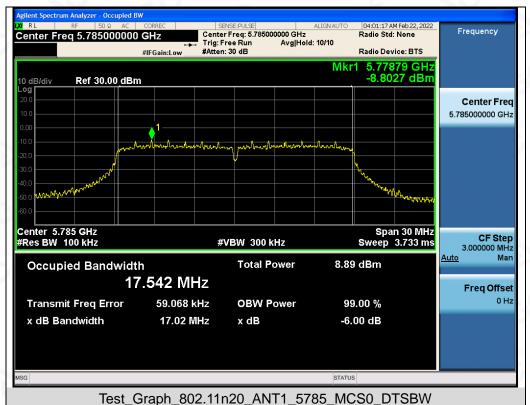
g/Inspection







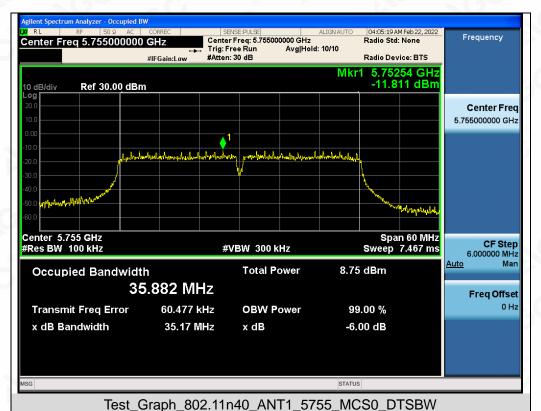




Center Freq: 5.825000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Radio Std: None Center Freq 5.825000000 GHz Avg|Hold: 10/10 5.81879 GHz -9.1119 dBm Ref 30.00 dBm Center Frea 5.825000000 GHz Center 5.825 GHz #Res BW 100 kHz Span 30 MHz Sweep 3.733 ms CF Step 3.000000 MHz #VBW 300 kHz Auto **Total Power** 8.45 dBm Occupied Bandwidth 17.545 MHz Freq Offset 52.592 kHz **OBW Power** 99.00 % Transmit Freq Error x dB Bandwidth 16.87 MHz x dB -6.00 dB

Test\_Graph\_802.11n20\_ANT1\_5825\_MCS0\_DTSBW

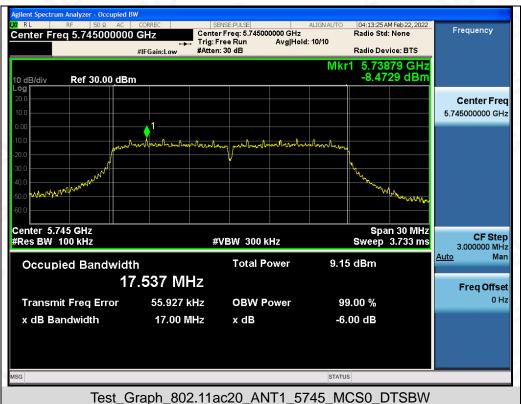




Center Freq: 5.795000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Radio Std: None Center Freq 5.795000000 GHz Avg|Hold: 10/10 Radio Device: BTS 5.79758 GHz -12.119 dBm Ref 30.00 dBm Center Frea 5.795000000 GHz Center 5.795 GHz #Res BW 100 kHz Span 60 MHz Sweep 7.467 ms **CF Step** 6.000000 MHz #VBW 300 kHz Auto **Total Power** 8.68 dBm Occupied Bandwidth 35.864 MHz Freq Offset 60.526 kHz 99.00 % **Transmit Freq Error OBW Power** x dB Bandwidth 35.16 MHz x dB -6.00 dB

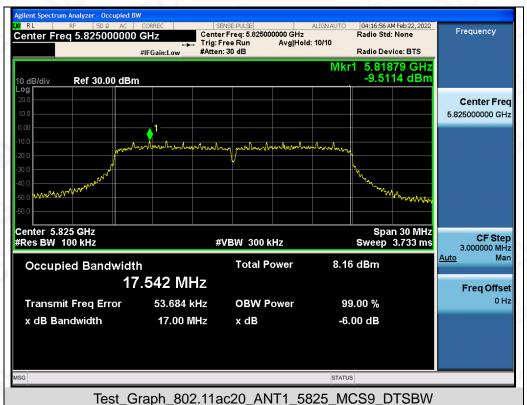
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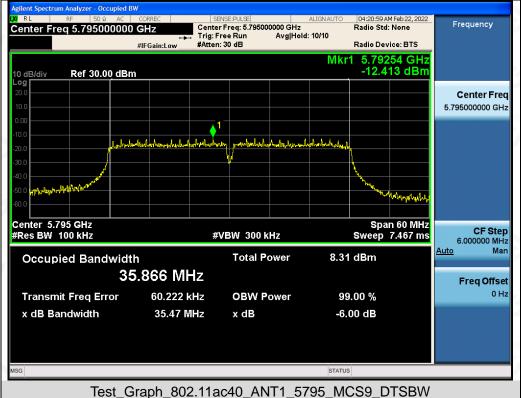


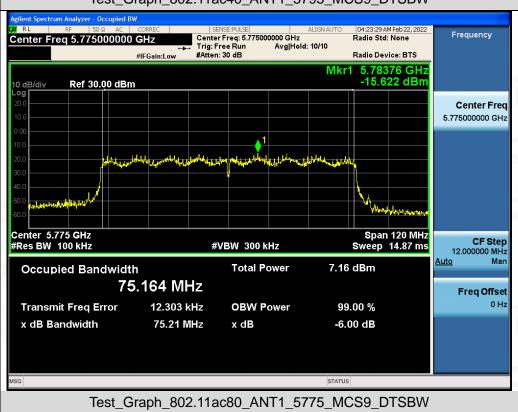






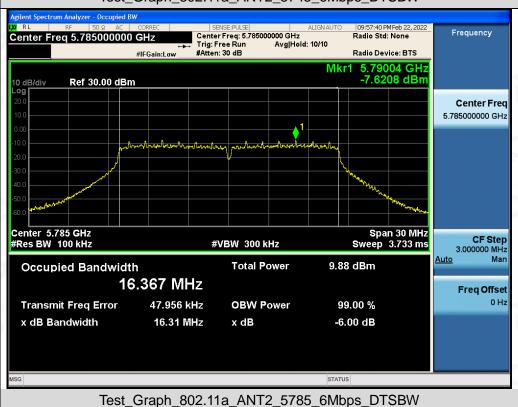






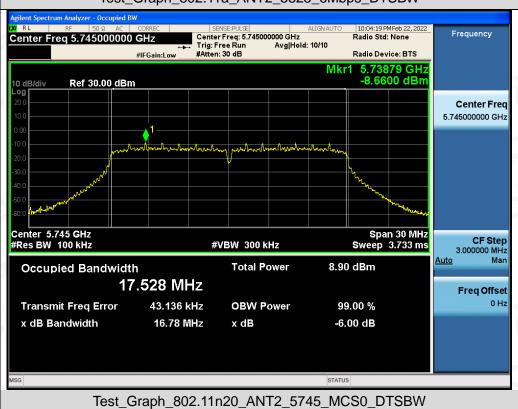




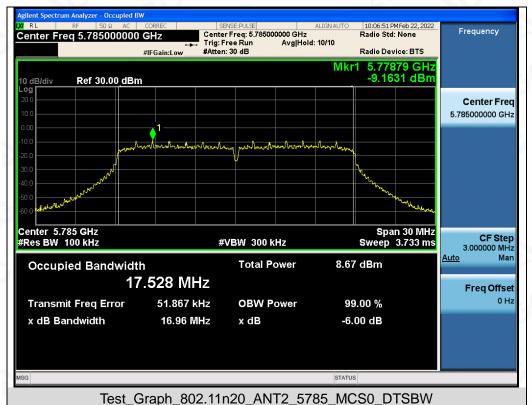


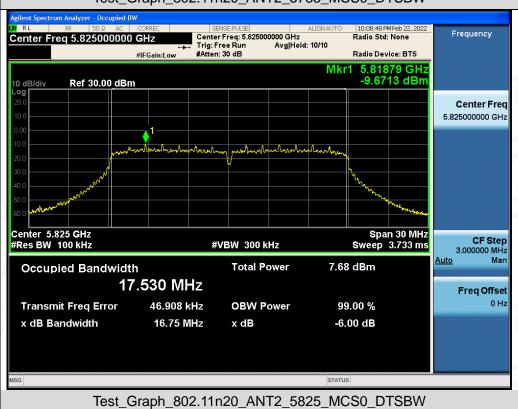






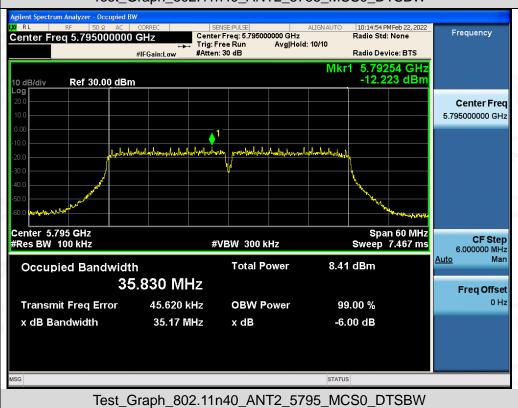




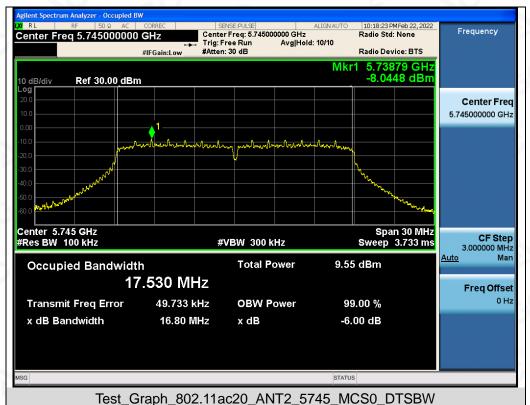






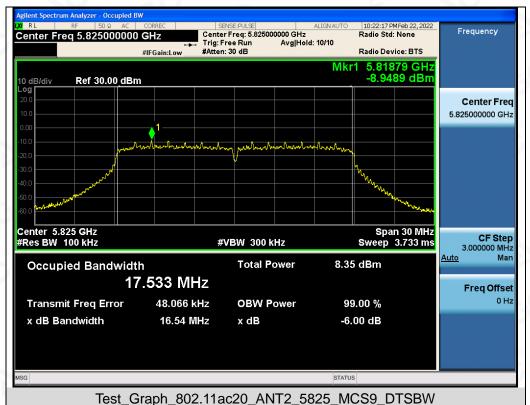








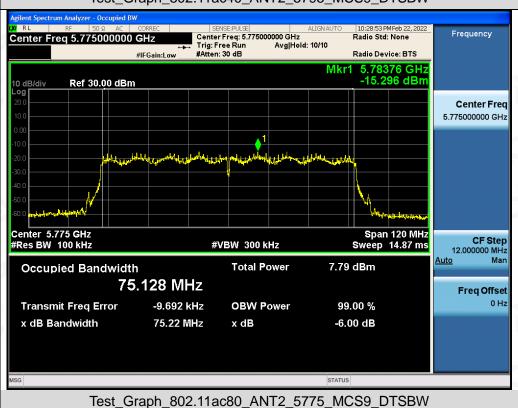




Center Freq: 5.755000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Radio Std: None Center Freq 5.755000000 GHz Avg|Hold: 10/10 Radio Device: BTS 5.75254 GHz -11.920 dBm Ref 30.00 dBm Center Frea 5.755000000 GHz woodselbackers day Center 5.755 GHz #Res BW 100 kHz Span 60 MHz Sweep 7.467 ms **CF Step** 6.000000 MHz #VBW 300 kHz Auto **Total Power** 8.79 dBm Occupied Bandwidth 35.862 MHz Freq Offset 48.775 kHz 99.00 % **Transmit Freq Error OBW Power** x dB Bandwidth 35.18 MHz x dB -6.00 dB Test\_Graph\_802.11ac40\_ANT2\_5755\_MCS9\_DTSBW









Report No.: AGC03773220201FE06

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## 9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

#### 9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

## 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

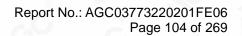
Refer to Section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

Test	Data of Conducted O	output Power Density for band 5.15-5	5.25 GHz-anten	na 1	
Test Mode	Test Channel Average Power Density (MHz) (dBm/MHz)		Limits (dBm/MHz)	Pass or Fail	
	5180	-6.955	11	Pass	
802.11a	5200	-7.321	11	Pass	
	5240	-7.513	11	Pass	
70	5180	-7.621	11	Pass	
802.11n20	5200	-7.970	11	Pass	
	5240	-8.245	11	Pass	
000 44 = 40	5190	-10.342	11	Pass	
802.11n40	5230	-11.200	11	Pass	
(8)	5180	-8.512	11	Pass	
802.11ac20	5200	-8.102	11	Pass	
	5240	-8.173	11	Pass	
802.11ac40	5190	-10.678	11	Pass	
	5230	-10.798	11	Pass	
802.11ac80	5210	-12.558	11	Pass	





Test I	Data of Conducted Ou	tput Power Density for band 5.15	5-5.25 GHz-anten	na 2	
Test Mode	Test Channel (MHz)	,		Pass or Fail	
	5180	-8.220	11	Pass	
802.11a	5200	-7.314	_ 11	Pass	
	5240	-7.509	11	Pass	
(6)	5180	-8.603	11	Pass	
802.11n20	5200	-8.523	11	Pass	
	5240	-8.191	11	Pass	
902 11 - 10	5190	-10.983	11	Pass	
802.11n40	5230	-10.926	11 🌑	Pass	
	5180	-8.659	11	Pass	
802.11ac20	5200	-8.607	11	Pass	
	5240	-8.098	11	Pass	
802.11ac40	5190	-11.367	11	Pass	
	5230	-11.099	11	Pass	
802.11ac80	5210	-13.471	11	Pass	

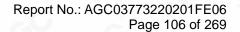
Test D	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-antenna 1+2					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5180	-5.07	11	Pass		
802.11n20	5200	-5.23	11	Pass		
	5240	-5.21	11	Pass		
002 11 n 10	5190	-7.64	11	Pass		
802.11n40	5230	-8.05	11	Pass		
8	5180	-5.57	11	Pass		
802.11ac20	5200	-5.34	11	Pass		
	5240	-5.13	11	Pass		
000 44 = -40	5190	-8.00	11	Pass		
802.11ac40	5230	-7.94	11	Pass		
802.11ac80	5210	-9.98	11	Pass		





Test	Data of Conducted Ou	tput Power Density for band 5.25	-5.35 GHz-anten	na 1	
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail	
- C	5260	-7.318	11	Pass	
802.11a	5300	-7.694	11	Pass	
	5320	-7.863	11	Pass	
8	5260	-8.402	11	Pass	
802.11n20	5300	-8.208	11	Pass	
	5320	-8.355	11	Pass	
000 44 = 40	5270	-10.012	11	Pass	
802.11n40	5310	-11.043	11 🌑	Pass	
10	5260	-8.360	11	Pass	
802.11ac20	5300	-7.908	11	Pass	
	5320	-8.239	11	Pass	
802.11ac40	5270	-11.472	_ 11	Pass	
	5310	-11.051	11	Pass	
802.11ac80	5290	-12.554	11	Pass	

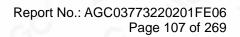
Test I	Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-antenna 2						
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail			
	5260	-7.993	11	Pass			
802.11a	5300	-7.299	11	Pass			
	5320	-7.215	11	Pass			
100 -	5260	-8.519	11	Pass			
802.11n20	5300	-7.919	11	Pass			
	5320	-7.793	11	Pass			
000 44 = 40	5270	-11.209	11	Pass			
802.11n40	5310	-10.425	11	Pass			
0	5260	-8.668	11	Pass			
802.11ac20	5300	-7.798	9 11	Pass			
	5320	-7.771	11	Pass			
000.44 40	5270	-10.788	11	Pass			
802.11ac40	5310	-10.442	11	Pass			
802.11ac80	5290	-12.688	11	Pass			





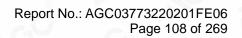
Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-antenna 1+2					
Test Mode	Test Channel Average Power Densit (MHz) (dBm/MHz)		Limits (dBm/MHz)	Pass or Fail	
	5260	-5.45	11	Pass	
802.11n20	5300	-5.05	11	Pass	
	5320	-5.05	11	Pass	
000 44 = 40	5270	-7.56	11	Pass	
802.11n40	5310	-7.71	11	Pass	
-6	5260	-5.50	11	Pass	
802.11ac20	5300	-4.84	11	Pass	
	5320	-4.99	11	Pass	
802.11ac40	5270	-8.11	11 🌑	Pass	
	5310	-7.73	11	Pass	
802.11ac80	5290	-9.61	11	Pass	

Test D	Data of Conducted O	utput Power Density for band 5.47-	5.725 GHz-anter	nna 1
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
60	5500	-7.345	11 (	Pass
802.11a	5600	-7.020	11	Pass
	5700	-7.075	11	Pass
	5500	-8.344	11	Pass
802.11n20	5600	-7.642	11	Pass
	5700	-7.402	11	Pass
®	5510	-10.815	11	Pass
802.11n40	5590	-10.709	11	Pass
	5670	-10.274	11	Pass
8	5500	-7.745	11	Pass
802.11ac20	5600	-7.412	11	Pass
	5700	-7.484	11	Pass
0	5510	-11.185	11	Pass
802.11ac40	5590	-10.520	11	Pass
	5670	-11.027	11	Pass
000 4400	5530	-12.099	11	Pass
802.11ac80	5610	-12.133	11	Pass





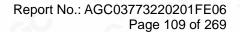
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fai
	5500	-7.134	11	Pass
802.11a	5600	-7.164	_ 11	Pass
	5700	-7.287	11	Pass
(s)	5500	-7.640	<sub>®</sub> 11	Pass
802.11n20	5600	-7.415	11	Pass
	5700	-7.352	11	Pass
	5510	-11.598	11	Pass
802.11n40	5590	-11.362	11 🌑	Pass
	5670	-10.817	11	Pass
	5500	-7.435	11	Pass
802.11ac20	5600	-7.329	_11	Pass
	5700	-7.598	_ 11	Pass
	5510	-12.246	11	Pass
802.11ac40	5590	-10.637	11	Pass
	5670	-10.281	11	Pass
000 110000	5530	-12.935	11	Pass
802.11ac80	5610	-11.954	11	Pass





Test Da	ata of Conducted Out	out Power Density for band 5.47-5.7	725 GHz-antenr	na 1+2
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	-4.97	11	Pass
802.11n20	5600	-4.52	_ 11	Pass
	5700	-4.37	11	Pass
(6)	5510	-8.18	11	Pass
802.11n40	5590	-8.01	11	Pass
	5670	-7.53	11	Pass
	5500	-4.58	11	Pass
802.11ac20	5600	-4.36	11 ⊚	Pass
	5700	-4.53	11	Pass
	5510	-8.67	11	Pass
802.11ac40	5590	-7.57	11	Pass
	5670	-7.63	_ 11	Pass
000 4400	5530	-9.49	11	Pass
802.11ac80	5610	-9.03	11	Pass

T	Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-antenna 1							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail			
	5745	-16.288	-9.298	30	Pass			
802.11a	5785	-16.319	-9.329	30	Pass			
8	5825	-16.776	-9.786	30	Pass			
10°	5745	-16.514	-9.524	30	Pass			
802.11n20	5785	-16.845	-9.855	30	Pass			
8	5825	-16.748	-9.758	30	Pass			
000 44= 40	5755	-19.135	-12.145	30	Pass			
802.11n40	5795	-19.061	-12.071	30	Pass			
8	5745	-16.634	-9.644	30	Pass			
802.11ac20	5785	-17.391	-10.401	30	Pass			
	5825	-17.473	-10.483	30	Pass			
000 44 40	5755	-19.443	-12.453	30	Pass			
802.11ac40	5795	-19.491	-12.501	30	Pass			
802.11ac80	5775	-21.689	-14.699	30	Pass			





T	est Data of Cor	ducted Output Power De	nsity for band 5.725-5.85	GHz-antenna 2	
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
	5745	-16.188	-9.198	30	Pass
802.11a	5785	-16.139	-9.149	30	Pass
	5825	-16.149	-9.159	30	Pass
	5745	-16.650	-9.660	30	Pass
802.11n20	5785	-17.185	-10.195	30	Pass
60	5825	-17.165	-10.175	30	Pass
000 11 = 10	5755	-19.048	-12.058	30	Pass
802.11n40	5795	-19.612	-12.622	30	Pass
	5745	-15.866	-8.876	30	Pass
802.11ac20	5785	-16.607	-9.617	30	Pass
	5825	-17.355	-10.365	30	Pass
802.11ac40	5755	-19.015	-12.025	30	Pass
	5795	-19.043	-12.053	30	Pass
802.11ac80	5775	-21.587	-14.597	30	Pass

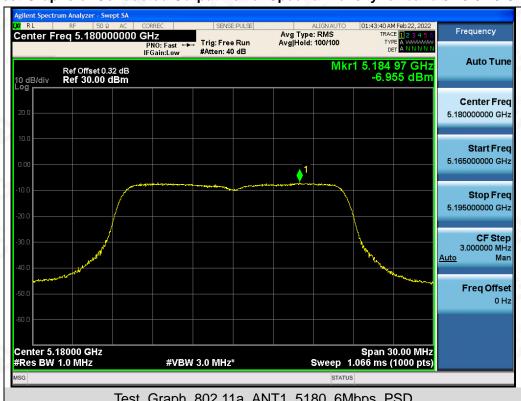
Те	Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-antenna 1+2							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail			
	5745	-13.57	-6.58	30	Pass			
802.11n20	5785	-14.00	-7.01	30	Pass			
	5825	-13.94	-6.95	30	Pass			
000 44 = 40	5755	-16.08	-9.09	30	Pass			
802.11n40	5795	-16.32	-9.33	30	Pass			
	5745	-13.22	-6.23	30	Pass			
802.11ac20	5785	-13.97	-6.98	30	Pass			
CO	5825	-14.40	-7.41	30	Pass			
000 44 40	5755	-16.21	-9.22	30	Pass			
802.11ac40	5795	-16.25	-9.26	30	Pass			
802.11ac80	5775	-18.63	-11.64	30	Pass			

Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10\*log(500/100).

 $2. The \ Total \ PSD \ (dBm/500kHz) = 10*log \ \{10^{(Ant \ 1 \ PSD/10)} + 10^{(Ant \ 2 \ PSD/10)} \ \} (dBm/500kHz)$ 



# Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_PSD



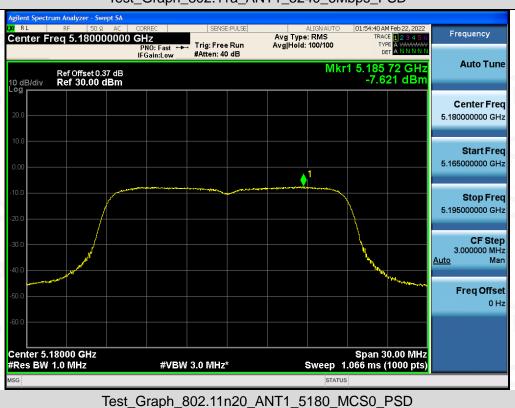
Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_PSD

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Test\_Graph\_802.11n20\_ANT1\_5200\_MCS0\_PSD



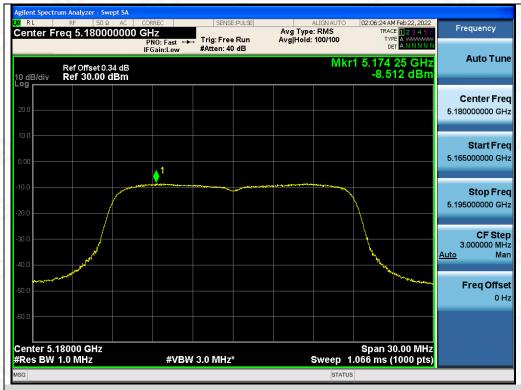




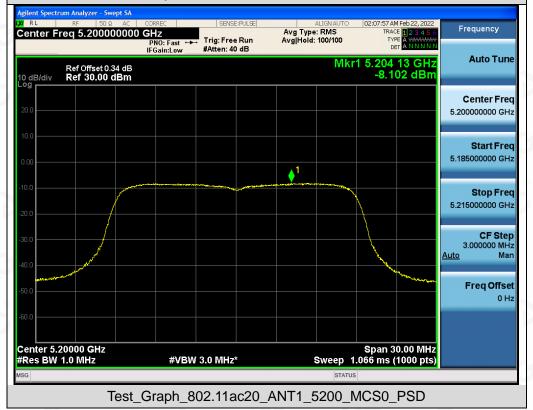
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Test\_Graph\_802.11ac20\_ANT1\_5180\_MCS0\_PSD







Test\_Graph\_802.11ac20\_ANT1\_5240\_MCS9\_PSD



















Test\_Graph\_802.11a\_ANT2\_5240\_6Mbps\_PSD













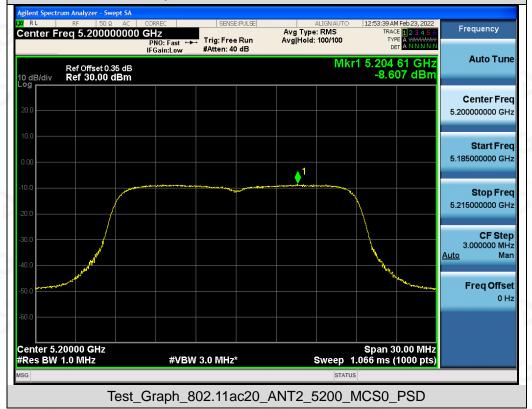
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Test\_Graph\_802.11ac20\_ANT2\_5180\_MCS0\_PSD







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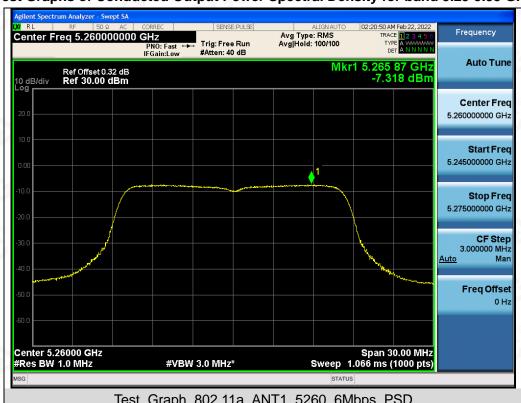




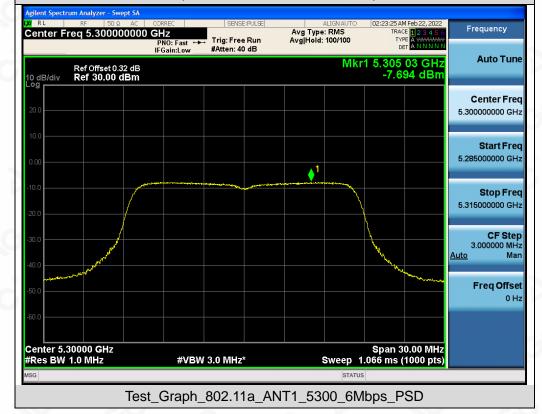




# Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_PSD

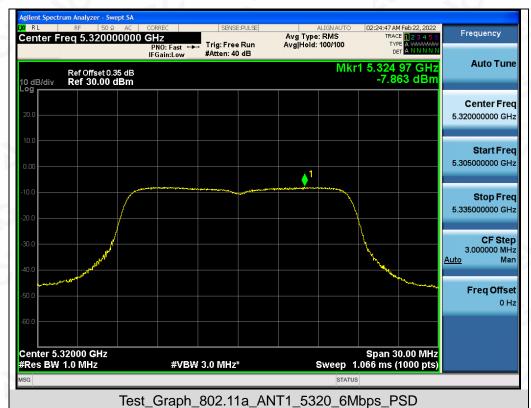


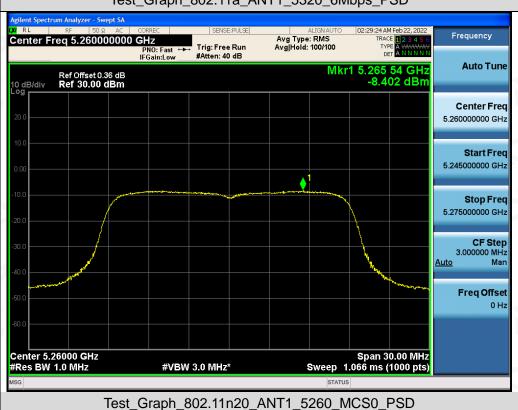
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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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Test\_Graph\_802.11n20\_ANT1\_5300\_MCS0\_PSD Frequency Center Freq 5.320000000 GHz Avg Type: RMS Avg|Hold: 100/100 Trig: Free Run #Atten: 40 dB IFGain:Lov **Auto Tune** Mkr1 5.314 16 GHz -8.355 dBm Ref Offset 0.34 dB Ref 30.00 dBm Center Frea 5.320000000 GHz 5.305000000 GHz Stop Freq 5.335000000 GHz CF Step 3.000000 MHz Auto Freq Offset Center 5.32000 GHz #Res BW 1.0 MHz Span 30.00 MHz Sweep 1.066 ms (1000 pts) #VBW 3.0 MHz\* Test\_Graph\_802.11n20\_ANT1\_5320\_MCS0\_PSD