



Report No.: AGC01125210501FE06

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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 Output Power Density for band 5.15-5.25 GHz							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fai			
	5180	3.584	17	Pass			
802.11a	5200	3.290	17	Pass			
	5240	3.642	17	Pass			
802.11n20	5180	3.083	17	Pass			
	5200	2.754	17	Pass			
	5240	2.762	17	Pass			
802.11n40	5190	-1.581	17	Pass			
	5230	-1.798	17	Pass			
802.11ac20	5180	1.670	17	Pass			
	5200	1.255	17	Pass			
	5240	1.426	17	Pass			
802.11ac40	5190	-1.192	17	Pass			
	5230	-2.050	17	Pass			
802.11ac80	5210	-4.526	17	Pass			



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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail		
8	5745	-4.427	2.563	30	Pass		
802.11a	5785	-4.688	2.302	30	Pass		
	5825	-5.120	1.870	30	Pass		
802.11n20	5745	-4.858	0.394	30	Pass		
	5785	-5.279	-0.041	30	Pass		
	5825	-5.802	1.186	30	Pass		
802.11n40	5755	-9.786	-2.731	30	Pass		
	5795	-10.408	-3.539	30	Pass		
802.11ac20	5745	-6.596	-5.833	30	Pass		
	5785	-7.031	2.132	30	Pass		
	5825	-5.804	1.711	30	Pass		
802.11ac40	5755	-9.721	1.188	30	Pass		
	5795	-10.529	-2.796	30	Pass		
802.11ac80	5775	-12.823	-3.418	30	Pass		

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

Scale Type

Span 30.00 MHz

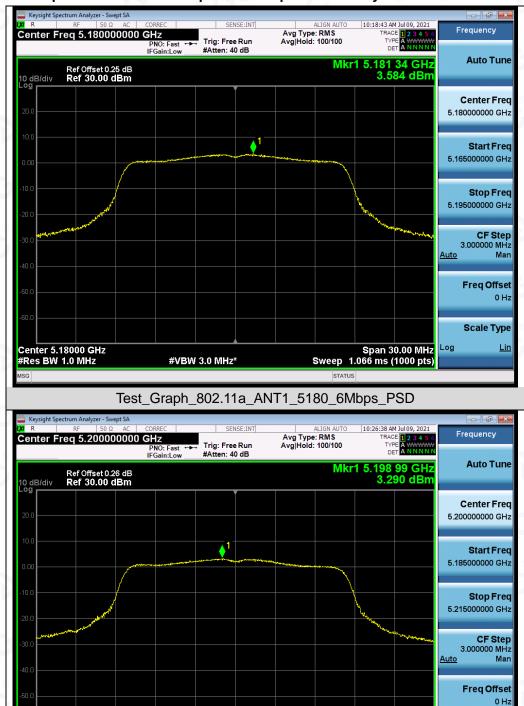
Sweep 1.066 ms (1000 pts)

<u>Lin</u>

Compliance Dedicated Festing/Inspection



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



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#VBW 3.0 MHz\*

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

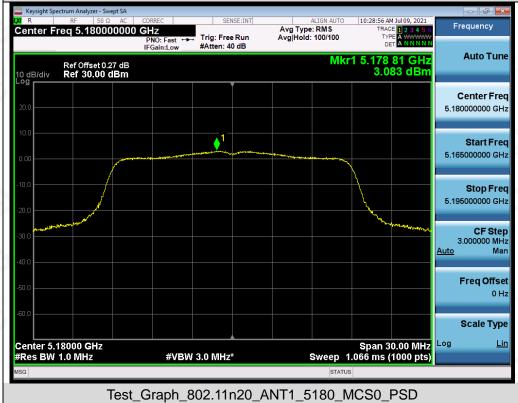
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Center 5.20000 GHz #Res BW 1.0 MHz

























Scale Type

Span 60.00 MHz Sweep 1.066 ms (1000 pts)





Test\_Graph\_802.11ac40\_ANT1\_5190\_MCS9\_PSD

#VBW 3.0 MHz\*

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Center 5.19000 GHz #Res BW 1.0 MHz





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Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_PSD

#VBW 3.0 MHz\*

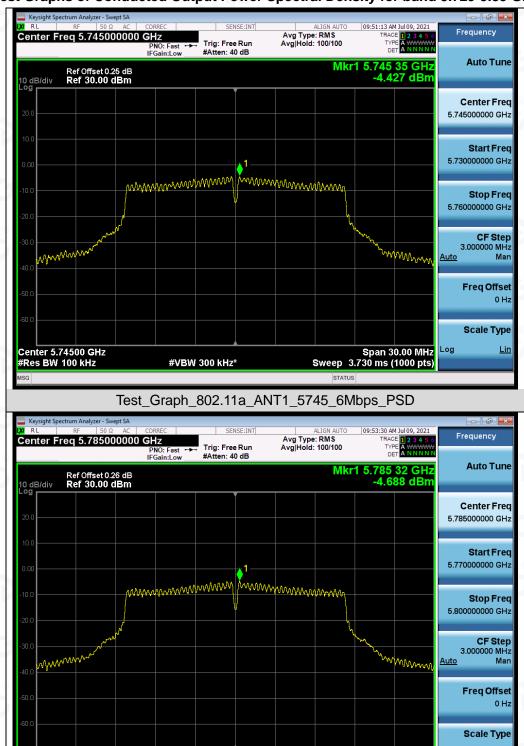
<u>Lin</u>

Span 30.00 MHz

Sweep 3.730 ms (1000 pts)



#### Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



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

**#VBW** 300 kHz\*

Center 5.78500 GHz #Res BW 100 kHz







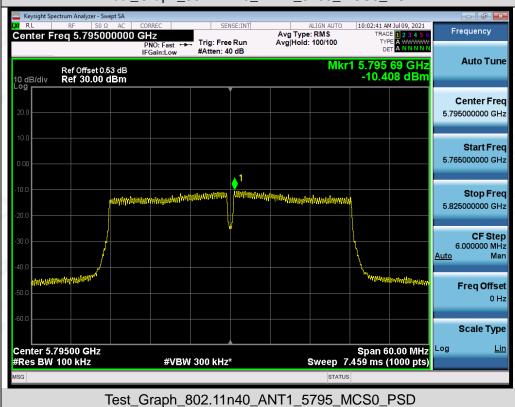




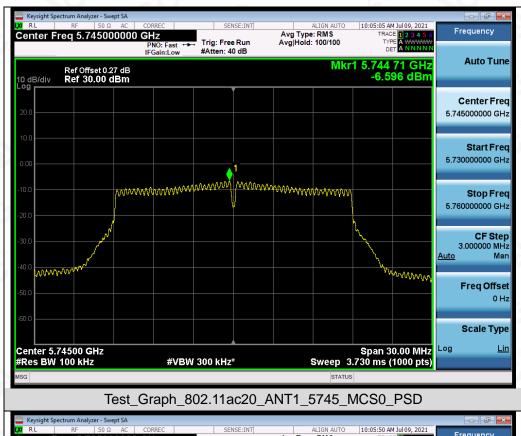






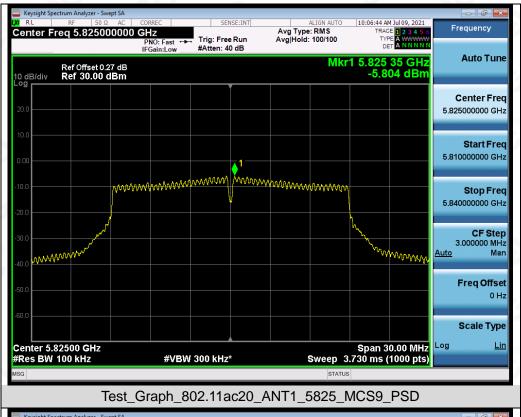






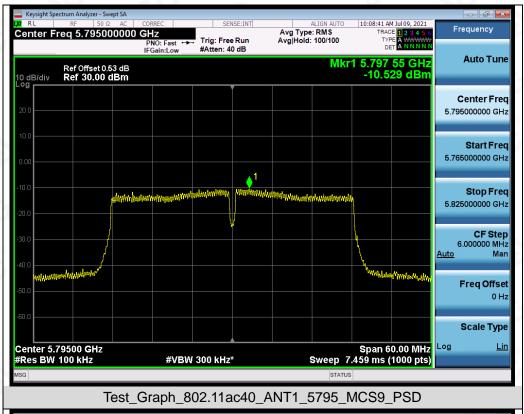
















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### 10. CONDUCTED SPURIOUS EMISSION

#### 10.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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

The same as described in section 8.2.

### 10.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

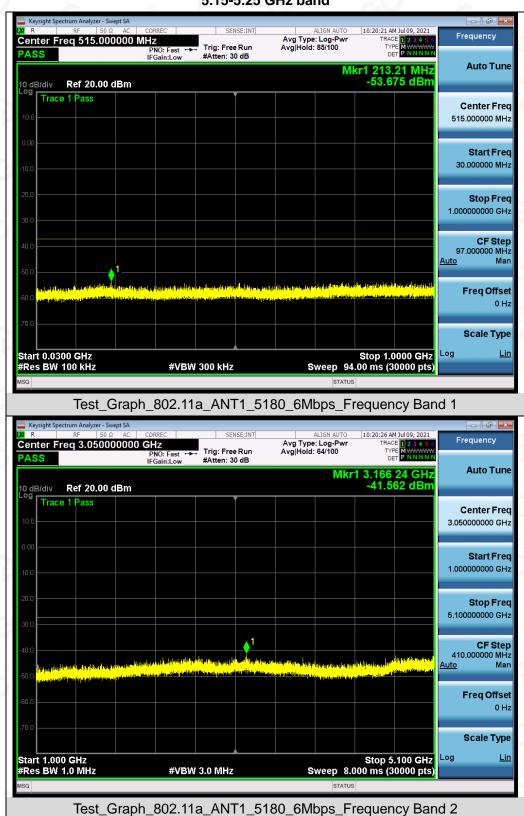
### 10.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
	Measurement Result					
Applicable Limits	Test channel	Criteri a				
-27dBm/MHz	5150MHz-5250MH z	PASS				
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MH z	PASS				

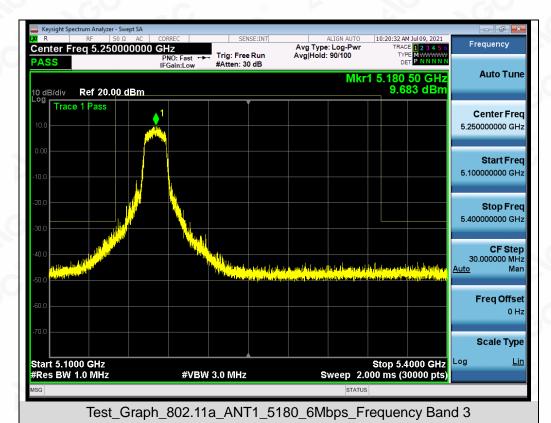
Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.



# Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



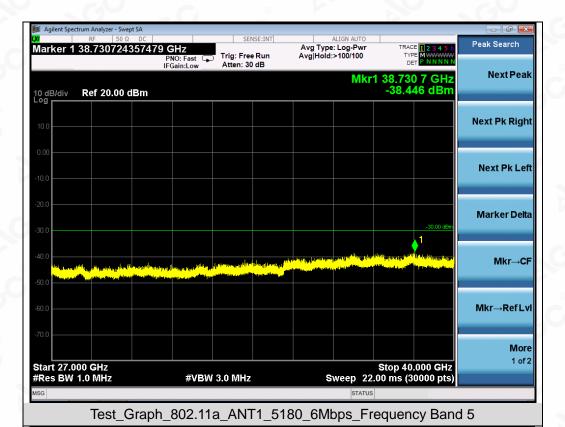






Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 4





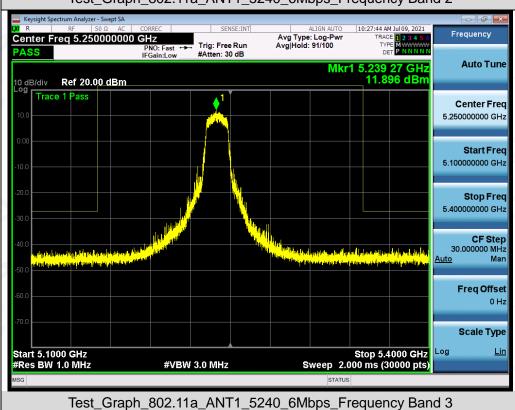


Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 1

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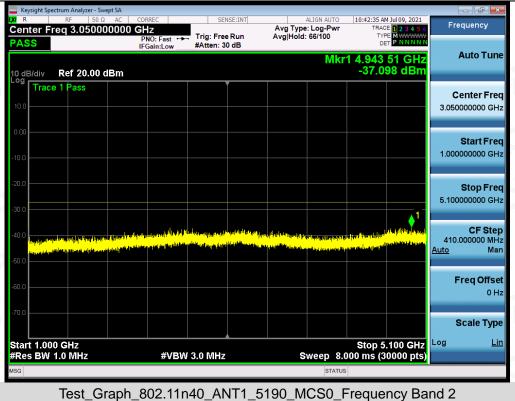






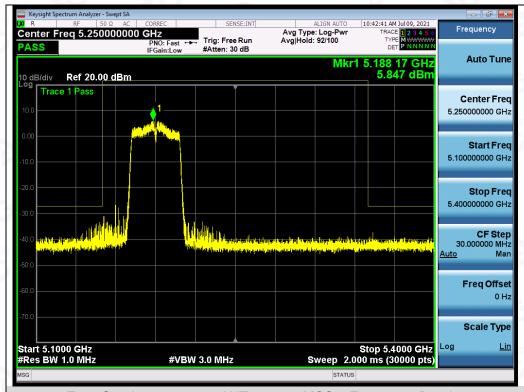






The test results









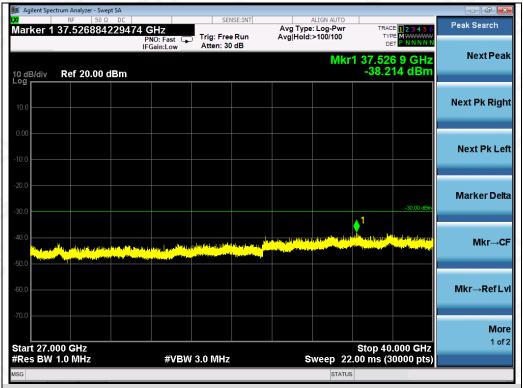
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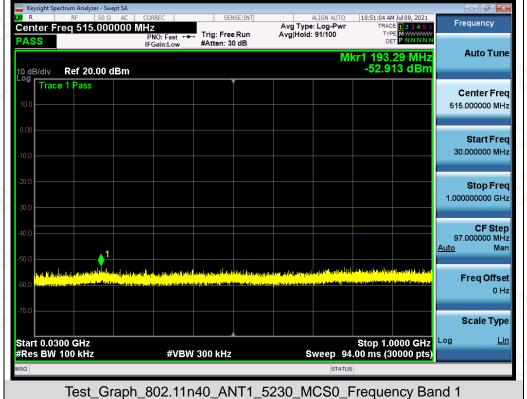
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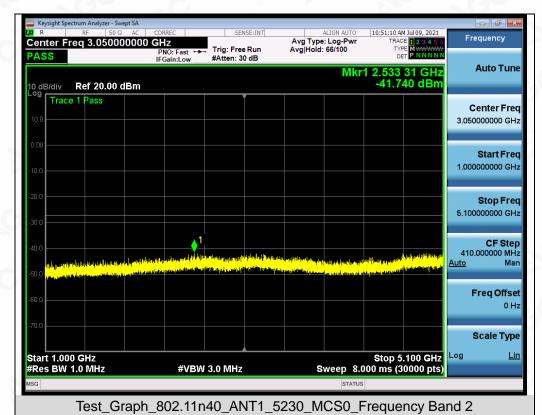










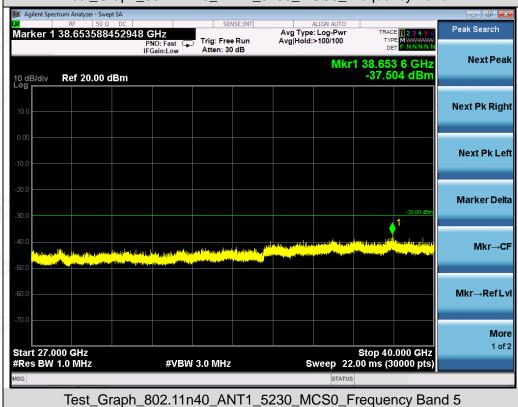




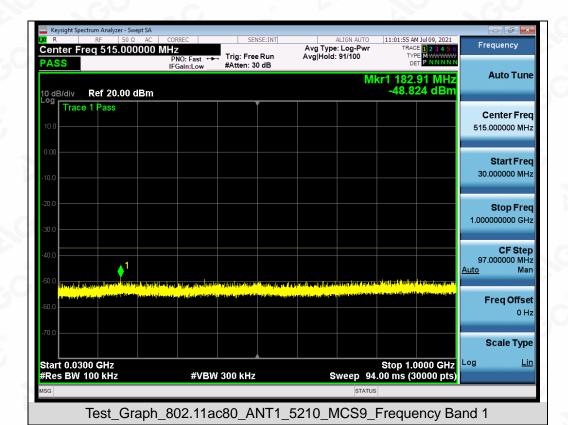
Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_Frequency Band 3

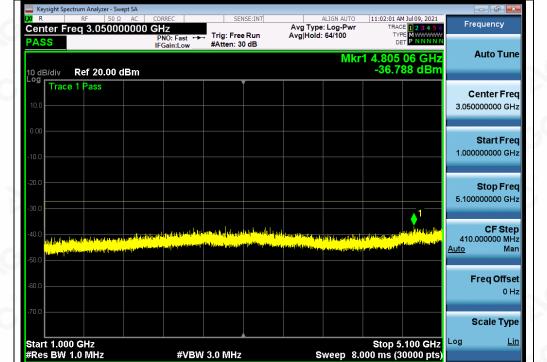












Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_Frequency Band 2

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