

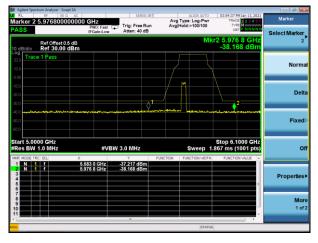
Antenna A: 5745-58250MHz

## 5.8G

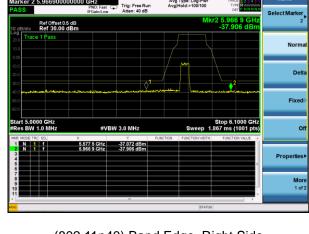
## 5.745~5.825 GHz

(802.11n20) Band Edge, Left Side

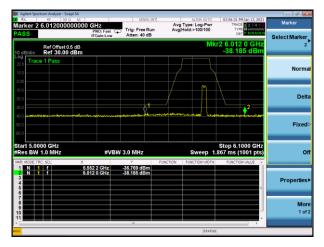
(802.11n40) Band Edge, Left Side

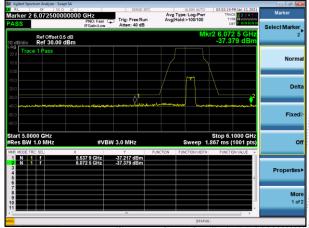


(802.11n20) Band Edge, Right Side



(802.11n40) Band Edge, Right Side





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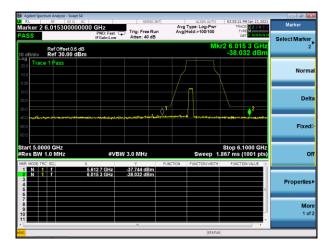
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#### 5.745~5.825 GHz

(802.11ac20) Band Edge, Left Side

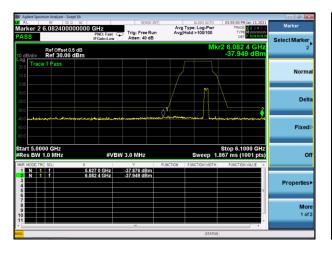
(802.11ac40) Band Edge, Left Side

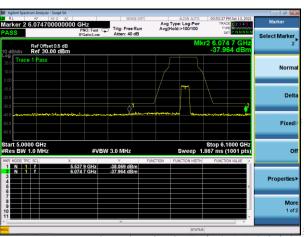


| Ref Offset 0.5 dB | Ref 30.00 dB | Ref 30.00 dB | Start 5.0000 GHz |

(802.11ac20) Band Edge, Right Side

(802.11ac40) Band Edge, Right Side





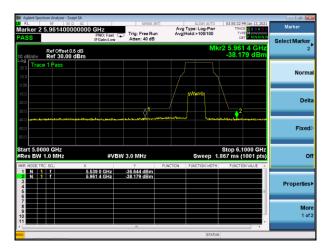
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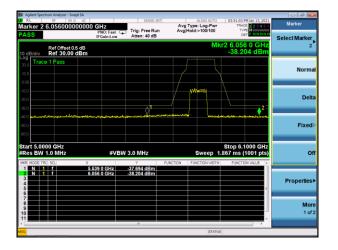


## 5.745~5.825 GHz

(802.11ac80) Band Edge, Left Side



(802.11ac80) Band Edge, Right Side



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# 12. SPURIOUS RF CONDUCTED EMISSIONS

# 12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

#### 12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2)For transmitters operating in the 5.725-5.85 GHz band(i) 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 increasing linearly to a level of 27 dBm/MHz at the band edge.

# 12.3 Test procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect

its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

- Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

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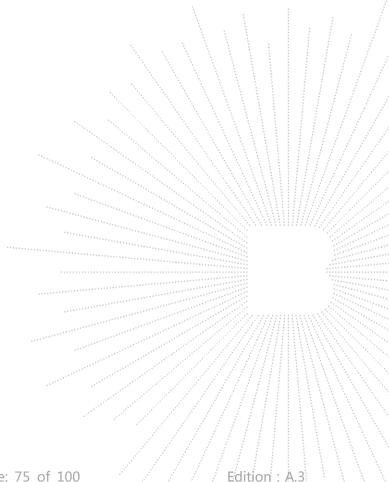


## 12.4 Test Result

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.



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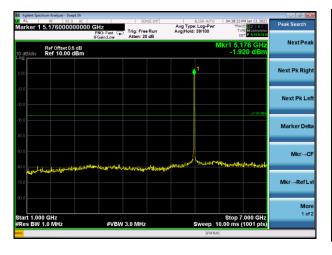


5.1G Test Plot

802.11n20 on channel 36



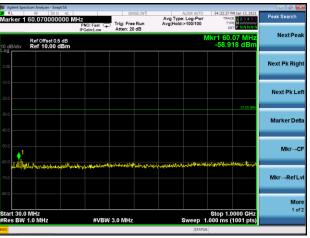
802.11n20 on channel 36



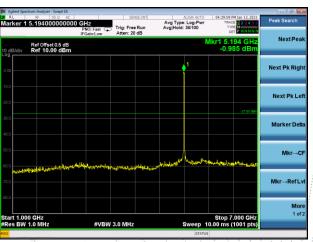
802.11n20 on channel 36



802.11n20 on channel 40



802.11n20 on channel 40



802.11n20 on channel 40



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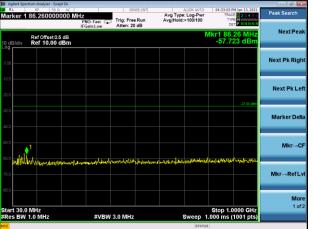


#### **Test Plot**

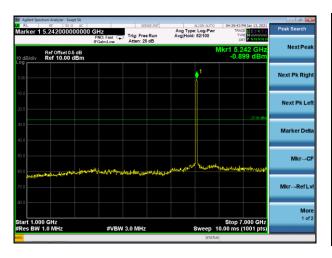
802.11n20 on channel 48



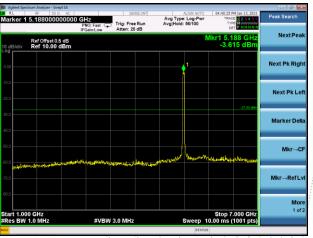
802.11n40 on channel 38



802.11n20 on channel 48



802.11n40 on channel 38



802.11n20 on channel 48



802.11n40 on channel 38



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#### **Test Plot**

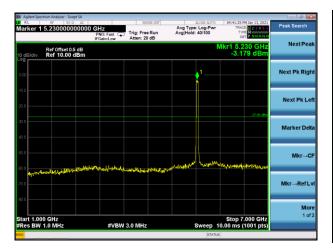
802.11n40 on channel 46



802.11ac20 on channel 36



802.11n40 on channel 46



802.11ac20 on channel 36



802.11n40 on channel 46



802.11ac20 on channel 36

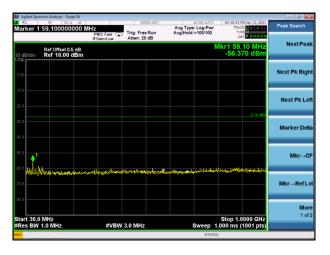


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**Test Plot** 

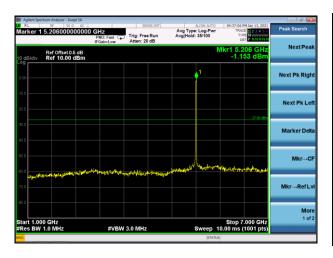
802.11ac20 on channel 40



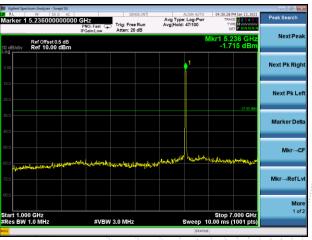
802.11ac20 on channel 48



802.11ac20 on channel 40



802.11ac20 on channel 48



802.11ac20 on channel 40



802.11ac20 on channel 48

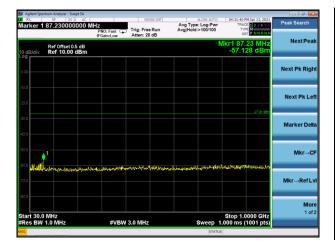


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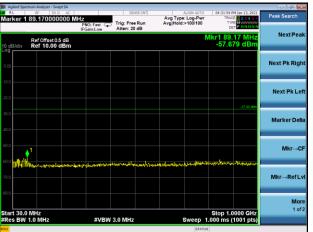


**Test Plot** 

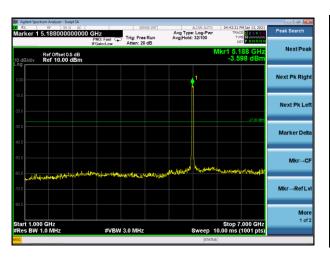
802.11ac40 on channel 38



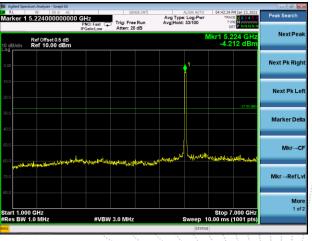
802.11ac40 on channel 46



802.11ac40 on channel 38



802.11 ac40 on channel 46



802.11ac40 on channel 38



802.11 ac40 on channel 46

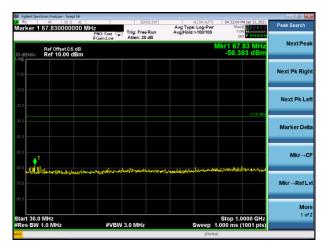


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**Test Plot** 

802.11ac80 on channel 42



802.11 ac80 on channel 42



802.11 ac80 on channel 42



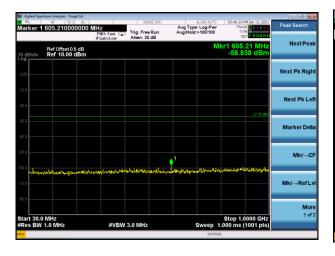
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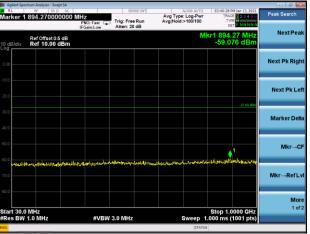


5.8G Test Plot

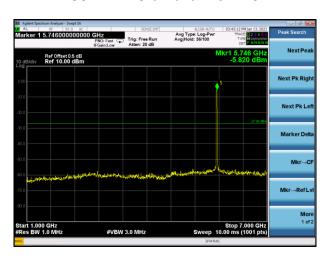
802.11n20 on channel 149



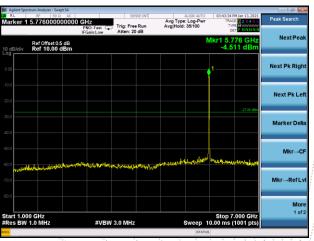
802.11n20 on channel 157



802.11n20 on channel 149



802.11n20 on channel 157



802.11n20 on channel 149



802.11n20 on channel 157



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