

2) Set VBW $\geq [3 \times \text{RBW}]$.

3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Connect the UUT to the spectrum analyzer and use the following settings:

5150 MHz~5250 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Sweep time	Auto

Note:

1. For UNII-3, according to KdB publication 789033 D02 General U-NII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.

2. The value measured with RBW=300kHz is to be added with $10\log(500\text{kHz}/300\text{kHz})$ which is 2.2dB. For example, if the measured value is +30 dBm using RBW=300kHz (that is +30 dBm/300kHz), then the converted value will be +32.2 dBm/1MHz.

3. Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

11.4. Test Result

Test Mode	Ant.	Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	EIRP	Limit(dBm /MHz)	Verdict
11A	Ant1	5180	-9.25	≤ 11.00	-3.62	≤ 10.00	PASS
	Ant2	5180	-9.37	≤ 11.00	-3.74	≤ 10.00	PASS
	Ant1	5200	-8.99	≤ 11.00	-3.36	≤ 10.00	PASS
	Ant2	5200	-9.07	≤ 11.00	-3.44	≤ 10.00	PASS
	Ant1	5240	-9.10	≤ 11.00	-3.47	≤ 10.00	PASS
	Ant2	5240	-8.54	≤ 11.00	-2.91	≤ 10.00	PASS
	Ant1	5260	-8.87	≤ 11.00	---	---	PASS
	Ant2	5260	-7.59	≤ 11.00	---	---	PASS
	Ant1	5280	-8.93	≤ 11.00	---	---	PASS
	Ant2	5280	-8.21	≤ 11.00	---	---	PASS
	Ant1	5320	-6.57	≤ 11.00	---	---	PASS
	Ant2	5320	-5.97	≤ 11.00	---	---	PASS
	Ant1	5500	-5.78	≤ 11.00	---	---	PASS
	Ant2	5500	-5.38	≤ 11.00	---	---	PASS
	Ant1	5580	-7.40	≤ 11.00	---	---	PASS
	Ant2	5580	-6.71	≤ 11.00	---	---	PASS
	Ant1	5700	-9.41	≤ 11.00	---	---	PASS
	Ant2	5700	-10.07	≤ 11.00	---	---	PASS
11N20MIMO	Ant1	5720_UNII-2C	-8.59	≤ 11.00	---	---	PASS
	Ant2	5720_UNII-2C	-9.60	≤ 11.00	---	---	PASS
	Ant1	5180	-9.81	≤ 11.00	-4.18	≤ 10.00	PASS
	Ant2	5180	-10.57	≤ 11.00	-4.94	≤ 10.00	PASS
	total	5180	-7.16	≤ 8.36	1.48	≤ 10.00	PASS

	Ant1	5200	-8.96	≤11.00	-3.33	≤10.00	PASS
	Ant2	5200	-9.90	≤11.00	-4.27	≤10.00	PASS
	total	5200	-6.39	≤8.36	2.25	≤10.00	PASS
	Ant1	5240	-9.33	≤11.00	-3.7	≤10.00	PASS
	Ant2	5240	-10.05	≤11.00	-4.42	≤10.00	PASS
	total	5240	-6.66	≤8.36	1.98	≤10.00	PASS
	Ant1	5260	-7.84	≤11.00	---	---	PASS
	Ant2	5260	-7.64	≤11.00	---	---	PASS
	total	5260	-4.73	≤8.36	---	---	PASS
	Ant1	5280	-8.31	≤11.00	---	---	PASS
	Ant2	5280	-7.46	≤11.00	---	---	PASS
	total	5280	-4.85	≤8.36	---	---	PASS
	Ant1	5320	-6.60	≤11.00	---	---	PASS
	Ant2	5320	-5.94	≤11.00	---	---	PASS
	total	5320	-3.25	≤8.36	---	---	PASS
	Ant1	5500	-5.91	≤11.00	---	---	PASS
	Ant2	5500	-5.30	≤11.00	---	---	PASS
	total	5500	-2.58	≤8.36	---	---	PASS
	Ant1	5580	-7.49	≤11.00	---	---	PASS
	Ant2	5580	-6.36	≤11.00	---	---	PASS
	total	5580	-3.88	≤8.36	---	---	PASS
	Ant1	5700	-9.37	≤11.00	---	---	PASS
	Ant2	5700	-9.63	≤11.00	---	---	PASS
	total	5700	-6.49	≤8.36	---	---	PASS
	Ant1	5720_UNII-2C	-9.39	≤11.00	---	---	PASS
	Ant2	5720_UNII-2C	-9.15	≤11.00	---	---	PASS
	total	5720_UNII-2C	-6.26	≤8.36	---	---	PASS
11N40MIMO	Ant1	5190	-11.61	≤11.00	-5.98	≤10.00	PASS
	Ant2	5190	-12.75	≤11.00	-7.12	≤10.00	PASS
	total	5190	-9.13	≤8.36	-0.49	≤10.00	PASS
	Ant1	5230	-11.65	≤11.00	-6.02	≤10.00	PASS
	Ant2	5230	-11.67	≤11.00	-6.04	≤10.00	PASS
	total	5230	-8.65	≤8.36	-0.01	≤10.00	PASS
	Ant1	5270	-10.83	≤11.00	---	---	PASS
	Ant2	5270	-10.50	≤11.00	---	---	PASS
	total	5270	-7.65	≤8.36	---	---	PASS
	Ant1	5310	-8.74	≤11.00	---	---	PASS
	Ant2	5310	-7.96	≤11.00	---	---	PASS
	total	5310	-5.32	≤8.36	---	---	PASS
	Ant1	5510	-6.46	≤11.00	---	---	PASS
	Ant2	5510	-5.96	≤11.00	---	---	PASS
	total	5510	-3.19	≤8.36	---	---	PASS
	Ant1	5550	-9.41	≤11.00	---	---	PASS
	Ant2	5550	-8.74	≤11.00	---	---	PASS
	total	5550	-6.05	≤8.36	---	---	PASS
	Ant1	5670	-12.40	≤11.00	---	---	PASS
	Ant2	5670	-12.43	≤11.00	---	---	PASS
	total	5670	-9.40	≤8.36	---	---	PASS
	Ant1	5710_UNII-2C	-10.91	≤11.00	---	---	PASS
	Ant2	5710_UNII-2C	-10.80	≤11.00	---	---	PASS
	total	5710_UNII-2C	-7.84	≤8.36	---	---	PASS

Note1: The EIRP = Result + Directional Gain

Note2: Directional Gain=8.64dBi

5725 MHz-5850 MHz

Test Mode	Ant.	Freq. (MHz)	Result (dBm/300KHz)	Result (dBm/500KHz)	Limit (dBm/MHz)	Verdict
11A	Ant1	5720_UNII-3	-13.96	-11.74	≤30.00	PASS
	Ant2	5720_UNII-3	-14.95	-12.73	≤30.00	PASS
	Ant1	5745	-13.44	-11.22	≤30.00	PASS
	Ant2	5745	-14.61	-12.39	≤30.00	PASS
	Ant1	5785	-12.89	-10.67	≤30.00	PASS
	Ant2	5785	-13.94	-11.72	≤30.00	PASS
	Ant1	5825	-13.54	-11.32	≤30.00	PASS
	Ant2	5825	-13.8	-11.58	≤30.00	PASS
11N20MIMO	Ant1	5720_UNII-3	-14.54	-12.32	≤30.00	PASS

	Ant2	5720_UNII-3	-16.18	-13.96	≤30.00	PASS
	total	5720_UNII-3	-12.27	-10.05	≤27.99	PASS
	Ant1	5745	-13.57	-11.35	≤30.00	PASS
	Ant2	5745	-14.38	-12.16	≤30.00	PASS
	total	5745	-10.95	-8.73	≤27.99	PASS
	Ant1	5785	-12.57	-10.35	≤30.00	PASS
	Ant2	5785	-13.24	-11.02	≤30.00	PASS
	total	5785	-9.88	-7.66	≤27.99	PASS
	Ant1	5825	-14.06	-11.84	≤30.00	PASS
	Ant2	5825	-13.59	-11.37	≤30.00	PASS
11N40MIMO	total	5825	-10.81	-8.59	≤27.99	PASS
	Ant1	5710_UNII-3	-17.38	-15.16	≤30.00	PASS
	Ant2	5710_UNII-3	-19.25	-17.03	≤30.00	PASS
	total	5710_UNII-3	-15.2	-12.98	≤27.99	PASS
	Ant1	5755	-15.91	-13.69	≤30.00	PASS
	Ant2	5755	-16.65	-14.43	≤30.00	PASS
	total	5755	-13.25	-11.03	≤27.99	PASS
	Ant1	5795	-14.88	-12.66	≤30.00	PASS
	Ant2	5795	-15.7	-13.48	≤30.00	PASS
	total	5795	-12.26	-10.04	≤27.99	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5. Original Test Data















