

using a reduced resolution bandwidth and integrated over 1 MHz bandwidth, the following adjustments to the procedures apply:

- 1) Set RBW $\geq 1 / T$.
- 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	2.14	≤ 10.82	8.32	≤ 10.00	PASS
	Ant2	5180	0.80	≤ 10.82	6.98	≤ 10.00	PASS
	Ant1	5200	1.42	≤ 10.82	7.6	≤ 10.00	PASS
	Ant2	5200	1.08	≤ 10.82	7.26	≤ 10.00	PASS
	Ant1	5240	1.35	≤ 10.82	7.53	≤ 10.00	PASS
	Ant2	5240	1.04	≤ 10.82	7.22	≤ 10.00	PASS
	Ant1	5260	1.66	≤ 10.82	---	---	PASS
	Ant2	5260	1.35	≤ 10.82	---	---	PASS
	Ant1	5280	1.56	≤ 10.82	---	---	PASS
	Ant2	5280	0.87	≤ 10.82	---	---	PASS
	Ant1	5320	1.60	≤ 10.82	---	---	PASS
	Ant2	5320	1.36	≤ 10.82	---	---	PASS
	Ant1	5500	0.64	≤ 10.82	---	---	PASS
	Ant2	5500	-0.25	≤ 10.82	---	---	PASS
	Ant1	5580	0.89	≤ 10.82	---	---	PASS
	Ant2	5580	0.76	≤ 10.82	---	---	PASS
	Ant1	5700	0.11	≤ 10.82	---	---	PASS
	Ant2	5700	0.03	≤ 10.82	---	---	PASS
	Ant1	5720 UNII-2C	0.97	≤ 10.82	---	---	PASS

	Ant2	5720_UNII-2C	0.90	≤10.82	---	---	PASS
11N20MIMO	Ant1	5180	-5.08	≤10.82	1.1	≤10.00	PASS
	Ant2	5180	-5.18	≤10.82	1	≤10.00	PASS
	total	5180	-2.12	≤7.81	7.07	≤10.00	PASS
	Ant1	5200	-4.71	≤10.82	1.47	≤10.00	PASS
	Ant2	5200	-4.72	≤10.82	1.46	≤10.00	PASS
	total	5200	-1.70	≤7.81	7.49	≤10.00	PASS
	Ant1	5240	-3.01	≤10.82	3.17	≤10.00	PASS
	Ant2	5240	-2.99	≤10.82	3.19	≤10.00	PASS
	total	5240	0.01	≤7.81	9.2	≤10.00	PASS
	Ant1	5260	-2.79	≤10.82	---	---	PASS
	Ant2	5260	-2.67	≤10.82	---	---	PASS
	total	5260	0.28	≤7.81	---	---	PASS
	Ant1	5280	-2.87	≤10.82	---	---	PASS
	Ant2	5280	-3.14	≤10.82	---	---	PASS
	total	5280	0.01	≤7.81	---	---	PASS
	Ant1	5320	-2.86	≤10.82	---	---	PASS
	Ant2	5320	-2.55	≤10.82	---	---	PASS
	total	5320	0.31	≤7.81	---	---	PASS
	Ant1	5500	-3.79	≤10.82	---	---	PASS
	Ant2	5500	-4.37	≤10.82	---	---	PASS
	total	5500	-1.06	≤7.81	---	---	PASS
	Ant1	5580	1.01	≤10.82	---	---	PASS
	Ant2	5580	1.20	≤10.82	---	---	PASS
	total	5580	4.12	≤7.81	---	---	PASS
	Ant1	5700	-0.10	≤10.82	---	---	PASS
	Ant2	5700	0.12	≤10.82	---	---	PASS
	total	5700	3.02	≤7.81	---	---	PASS
	Ant1	5720_UNII-2C	0.74	≤10.82	---	---	PASS
	Ant2	5720_UNII-2C	1.03	≤10.82	---	---	PASS
	total	5720_UNII-2C	3.90	≤7.81	---	---	PASS
11N40MIMO	Ant1	5190	-5.48	≤10.82	0.7	≤10.00	PASS
	Ant2	5190	-4.84	≤10.82	1.34	≤10.00	PASS
	total	5190	-2.14	≤7.81	7.05	≤10.00	PASS
	Ant1	5230	-5.11	≤10.82	1.07	≤10.00	PASS
	Ant2	5230	-4.23	≤10.82	1.95	≤10.00	PASS
	total	5230	-1.64	≤7.81	7.55	≤10.00	PASS
	Ant1	5270	-5.04	≤10.82	---	---	PASS
	Ant2	5270	-5.22	≤10.82	---	---	PASS
	total	5270	-2.12	≤7.81	---	---	PASS
	Ant1	5310	-5.74	≤10.82	---	---	PASS
	Ant2	5310	-4.62	≤10.82	---	---	PASS
	total	5310	-2.13	≤7.81	---	---	PASS
	Ant1	5510	-6.09	≤10.82	---	---	PASS
	Ant2	5510	-7.33	≤10.82	---	---	PASS
	total	5510	-3.66	≤7.81	---	---	PASS
	Ant1	5550	-5.59	≤10.82	---	---	PASS
	Ant2	5550	-5.79	≤10.82	---	---	PASS
	total	5550	-2.68	≤7.81	---	---	PASS
	Ant1	5670	-2.19	≤10.82	---	---	PASS
	Ant2	5670	-1.42	≤10.82	---	---	PASS
	total	5670	1.22	≤7.81	---	---	PASS
	Ant1	5710_UNII-2C	-1.51	≤10.82	---	---	PASS
	Ant2	5710_UNII-2C	-0.55	≤10.82	---	---	PASS
	total	5710_UNII-2C	2.01	≤7.81	---	---	PASS
11AC20MIMO	Ant1	5180	-3.18	≤10.82	3	≤10.00	PASS
	Ant2	5180	-3.33	≤10.82	2.85	≤10.00	PASS
	total	5180	-0.24	≤7.81	8.95	≤10.00	PASS
	Ant1	5200	-2.93	≤10.82	3.25	≤10.00	PASS
	Ant2	5200	-3.08	≤10.82	3.1	≤10.00	PASS
	total	5200	0.01	≤7.81	9.2	≤10.00	PASS
	Ant1	5240	-3.00	≤10.82	3.18	≤10.00	PASS
	Ant2	5240	-2.95	≤10.82	3.23	≤10.00	PASS
	total	5240	0.04	≤7.81	9.23	≤10.00	PASS
	Ant1	5260	-2.76	≤10.82	---	---	PASS
	Ant2	5260	-2.78	≤10.82	---	---	PASS
	total	5260	0.24	≤7.81	---	---	PASS

	Ant1	5280	-2.80	≤10.82	---	---	PASS
	Ant2	5280	-3.25	≤10.82	---	---	PASS
	total	5280	-0.01	≤7.81	---	---	PASS
	Ant1	5320	-2.84	≤10.82	---	---	PASS
	Ant2	5320	-2.51	≤10.82	---	---	PASS
	total	5320	0.34	≤7.81	---	---	PASS
	Ant1	5500	-3.87	≤10.82	---	---	PASS
	Ant2	5500	-4.13	≤10.82	---	---	PASS
	total	5500	-0.99	≤7.81	---	---	PASS
	Ant1	5580	0.77	≤10.82	---	---	PASS
	Ant2	5580	1.24	≤10.82	---	---	PASS
	total	5580	4.02	≤7.81	---	---	PASS
	Ant1	5700	-0.26	≤10.82	---	---	PASS
	Ant2	5700	0.06	≤10.82	---	---	PASS
	total	5700	2.91	≤7.81	---	---	PASS
	Ant1	5720_UNII-2C	0.70	≤10.82	---	---	PASS
	Ant2	5720_UNII-2C	1.05	≤10.82	---	---	PASS
	total	5720_UNII-2C	3.89	≤7.81	---	---	PASS
11AC40MIM O	Ant1	5190	-5.52	≤10.82	0.66	≤10.00	PASS
	Ant2	5190	-4.94	≤10.82	1.24	≤10.00	PASS
	total	5190	-2.21	≤7.81	6.98	≤10.00	PASS
	Ant1	5230	-5.31	≤10.82	0.87	≤10.00	PASS
	Ant2	5230	-4.71	≤10.82	1.47	≤10.00	PASS
	total	5230	-1.99	≤7.81	7.2	≤10.00	PASS
	Ant1	5270	-4.98	≤10.82	---	---	PASS
	Ant2	5270	-5.25	≤10.82	---	---	PASS
	total	5270	-2.10	≤7.81	---	---	PASS
	Ant1	5310	-5.68	≤10.82	---	---	PASS
	Ant2	5310	-4.59	≤10.82	---	---	PASS
	total	5310	-2.09	≤7.81	---	---	PASS
	Ant1	5510	-6.13	≤10.82	---	---	PASS
	Ant2	5510	-6.98	≤10.82	---	---	PASS
	total	5510	-3.52	≤7.81	---	---	PASS
	Ant1	5550	-5.32	≤10.82	---	---	PASS
	Ant2	5550	-5.46	≤10.82	---	---	PASS
	total	5550	-2.38	≤7.81	---	---	PASS
	Ant1	5670	-2.26	≤10.82	---	---	PASS
	Ant2	5670	-1.28	≤10.82	---	---	PASS
	total	5670	1.27	≤7.81	---	---	PASS
	Ant1	5710_UNII-2C	-1.47	≤10.82	---	---	PASS
	Ant2	5710_UNII-2C	-0.49	≤10.82	---	---	PASS
	total	5710_UNII-2C	2.06	≤7.81	---	---	PASS
11AC80MIM O	Ant1	5210	-8.53	≤10.82	-2.35	≤10.00	PASS
	Ant2	5210	-9.54	≤10.82	-3.36	≤10.00	PASS
	total	5210	-6.00	≤7.81	3.19	≤10.00	PASS
	Ant1	5290	-8.79	≤10.82	---	---	PASS
	Ant2	5290	-8.87	≤10.82	---	---	PASS
	total	5290	-5.82	≤7.81	---	---	PASS
	Ant1	5530	-9.21	≤10.82	---	---	PASS
	Ant2	5530	-8.65	≤10.82	---	---	PASS
	total	5530	-5.91	≤7.81	---	---	PASS
	Ant1	5610	-4.60	≤10.82	---	---	PASS
	Ant2	5610	-4.86	≤10.82	---	---	PASS
	total	5610	-1.72	≤7.81	---	---	PASS
	Ant1	5690_UNII-2C	-5.91	≤10.82	---	---	PASS
	Ant2	5690_UNII-2C	-6.31	≤10.82	---	---	PASS
	total	5690_UNII-2C	-3.10	≤7.81	---	---	PASS
11AX20MIMO	Ant1	5180	-3.25	≤10.82	2.93	≤10.00	PASS
	Ant2	5180	-3.55	≤10.82	2.63	≤10.00	PASS
	total	5180	-0.39	≤7.81	8.8	≤10.00	PASS
	Ant1	5200	-3.05	≤10.82	3.13	≤10.00	PASS
	Ant2	5200	-3.18	≤10.82	3	≤10.00	PASS
	total	5200	-0.10	≤7.81	9.09	≤10.00	PASS
	Ant1	5240	-3.26	≤10.82	2.92	≤10.00	PASS
	Ant2	5240	-3.26	≤10.82	2.92	≤10.00	PASS
	total	5240	-0.25	≤7.81	8.94	≤10.00	PASS
	Ant1	5260	-2.84	≤10.82	---	---	PASS

	Ant2	5260	-3.07	≤ 10.82	---	---	PASS
	total	5260	0.06	≤ 7.81	---	---	PASS
	Ant1	5280	-3.03	≤ 10.82	---	---	PASS
	Ant2	5280	-3.56	≤ 10.82	---	---	PASS
	total	5280	-0.28	≤ 7.81	---	---	PASS
	Ant1	5320	-2.94	≤ 10.82	---	---	PASS
	Ant2	5320	-2.93	≤ 10.82	---	---	PASS
	total	5320	0.08	≤ 7.81	---	---	PASS
	Ant1	5500	-3.18	≤ 10.82	---	---	PASS
	Ant2	5500	-3.83	≤ 10.82	---	---	PASS
	total	5500	-0.48	≤ 7.81	---	---	PASS
	Ant1	5580	-3.37	≤ 10.82	---	---	PASS
	Ant2	5580	-3.01	≤ 10.82	---	---	PASS
	total	5580	-0.18	≤ 7.81	---	---	PASS
	Ant1	5700	-4.33	≤ 10.82	---	---	PASS
	Ant2	5700	-4.07	≤ 10.82	---	---	PASS
	total	5700	-1.19	≤ 7.81	---	---	PASS
	Ant1	5720 UNII-2C	-3.41	≤ 10.82	---	---	PASS
	Ant2	5720 UNII-2C	-3.30	≤ 10.82	---	---	PASS
	total	5720 UNII-2C	-0.34	≤ 7.81	---	---	PASS
11AX40MIMO	Ant1	5190	-5.28	≤ 10.82	0.9	≤ 10.00	PASS
	Ant2	5190	-4.90	≤ 10.82	1.28	≤ 10.00	PASS
	total	5190	-2.08	≤ 7.81	7.11	≤ 10.00	PASS
	Ant1	5230	-5.02	≤ 10.82	1.16	≤ 10.00	PASS
	Ant2	5230	-4.49	≤ 10.82	1.69	≤ 10.00	PASS
	total	5230	-1.74	≤ 7.81	7.45	≤ 10.00	PASS
	Ant1	5270	-5.02	≤ 10.82	---	---	PASS
	Ant2	5270	0.19	≤ 10.82	---	---	PASS
	total	5270	1.33	≤ 7.81	---	---	PASS
	Ant1	5310	-5.33	≤ 10.82	---	---	PASS
	Ant2	5310	-4.56	≤ 10.82	---	---	PASS
	total	5310	-1.92	≤ 7.81	---	---	PASS
	Ant1	5510	-5.84	≤ 10.82	---	---	PASS
	Ant2	5510	-6.59	≤ 10.82	---	---	PASS
	total	5510	-3.19	≤ 7.81	---	---	PASS
	Ant1	5550	-5.20	≤ 10.82	---	---	PASS
	Ant2	5550	-5.44	≤ 10.82	---	---	PASS
	total	5550	-2.31	≤ 7.81	---	---	PASS
	Ant1	5670	-5.92	≤ 10.82	---	---	PASS
	Ant2	5670	-5.18	≤ 10.82	---	---	PASS
	total	5670	-2.52	≤ 7.81	---	---	PASS
	Ant1	5710 UNII-2C	-5.42	≤ 10.82	---	---	PASS
	Ant2	5710 UNII-2C	-3.99	≤ 10.82	---	---	PASS
	total	5710 UNII-2C	-1.64	≤ 7.81	---	---	PASS
11AX80MIMO	Ant1	5210	-7.34	≤ 10.82	-1.16	≤ 10.00	PASS
	Ant2	5210	-8.26	≤ 10.82	-2.08	≤ 10.00	PASS
	total	5210	-4.77	≤ 7.81	4.42	≤ 10.00	PASS
	Ant1	5290	-9.12	≤ 10.82	---	---	PASS
	Ant2	5290	-7.89	≤ 10.82	---	---	PASS
	total	5290	-5.45	≤ 7.81	---	---	PASS
	Ant1	5530	-8.24	≤ 10.82	---	---	PASS
	Ant2	5530	-7.40	≤ 10.82	---	---	PASS
	total	5530	-4.79	≤ 7.81	---	---	PASS
	Ant1	5610	-7.95	≤ 10.82	---	---	PASS
	Ant2	5610	-7.45	≤ 10.82	---	---	PASS
	total	5610	-4.68	≤ 7.81	---	---	PASS
	Ant1	5690 UNII-2C	-8.54	≤ 10.82	---	---	PASS
	Ant2	5690 UNII-2C	-9.50	≤ 10.82	---	---	PASS
	total	5690 UNII-2C	-5.98	≤ 7.81	---	---	PASS

Note1: The EIRP = Result + Ant. Gain

Note2: Ant. Gain=6.18dBi

5725 MHz-5850 MHz

Test Mode	Ant.	Freq. (MHz)	Result (dBm/300Hz)	Result (dBm/500Hz)	Limit (dBm/MHz)	Verdict
11A	Ant1	5720 UNII-3	-5.57	-3.35	≤29.82	PASS
	Ant2	5720 UNII-3	-6.28	-4.06	≤29.82	PASS
	Ant1	5745	-3.46	-1.24	≤29.82	PASS
	Ant2	5745	-3.93	-1.71	≤29.82	PASS
	Ant1	5785	-3.71	-1.49	≤29.82	PASS
	Ant2	5785	-4.09	-1.87	≤29.82	PASS
	Ant1	5825	-3.8	-1.58	≤29.82	PASS
	Ant2	5825	-3.96	-1.74	≤29.82	PASS
11N20MIMO	Ant1	5720 UNII-3	-5.81	-3.59	≤29.82	PASS
	Ant2	5720 UNII-3	-6.17	-3.95	≤29.82	PASS
	total	5720 UNII-3	-2.98	-0.76	≤26.81	PASS
	Ant1	5745	-7.82	-5.60	≤29.82	PASS
	Ant2	5745	-7.68	-5.46	≤29.82	PASS
	total	5745	-4.74	-2.52	≤26.81	PASS
	Ant1	5785	-8.03	-5.81	≤29.82	PASS
	Ant2	5785	-7.88	-5.66	≤29.82	PASS
	total	5785	-4.94	-2.72	≤26.81	PASS
	Ant1	5825	-8.04	-5.82	≤29.82	PASS
	Ant2	5825	-7.76	-5.54	≤29.82	PASS
	total	5825	-4.89	-2.67	≤26.81	PASS
11N40MIMO	Ant1	5710 UNII-3	-11.06	-8.84	≤29.82	PASS
	Ant2	5710 UNII-3	-11.21	-8.99	≤29.82	PASS
	total	5710 UNII-3	-8.12	-5.90	≤26.81	PASS
	Ant1	5755	-10.59	-8.37	≤29.82	PASS
	Ant2	5755	-10.29	-8.07	≤29.82	PASS
	total	5755	-7.43	-5.21	≤26.81	PASS
	Ant1	5795	-10.66	-8.44	≤29.82	PASS
	Ant2	5795	-9.92	-7.70	≤29.82	PASS
	total	5795	-7.26	-5.04	≤26.81	PASS
11AC20MIMO	Ant1	5720 UNII-3	-5.73	-3.51	≤29.82	PASS
	Ant2	5720 UNII-3	-6.37	-4.15	≤29.82	PASS
	total	5720 UNII-3	-3.03	-0.81	≤26.81	PASS
	Ant1	5745	-7.7	-5.48	≤29.82	PASS
	Ant2	5745	-7.76	-5.54	≤29.82	PASS
	total	5745	-4.72	-2.50	≤26.81	PASS
	Ant1	5785	-7.93	-5.71	≤29.82	PASS
	Ant2	5785	-7.77	-5.55	≤29.82	PASS
	total	5785	-4.84	-2.62	≤26.81	PASS
	Ant1	5825	-7.98	-5.76	≤29.82	PASS
	Ant2	5825	-7.79	-5.57	≤29.82	PASS
	total	5825	-4.87	-2.65	≤26.81	PASS
11AC40MIMO	Ant1	5710 UNII-3	-11.44	-9.22	≤29.82	PASS
	Ant2	5710 UNII-3	-11.08	-8.86	≤29.82	PASS
	total	5710 UNII-3	-8.25	-6.03	≤26.81	PASS
	Ant1	5755	-10.49	-8.27	≤29.82	PASS
	Ant2	5755	-10.5	-8.28	≤29.82	PASS
	total	5755	-7.48	-5.26	≤26.81	PASS
	Ant1	5795	-10.58	-8.36	≤29.82	PASS
	Ant2	5795	-9.89	-7.67	≤29.82	PASS
	total	5795	-7.21	-4.99	≤26.81	PASS
11AC80MIMO	Ant1	5690 UNII-3	-14.97	-12.75	≤29.82	PASS
	Ant2	5690 UNII-3	-13.74	-11.52	≤29.82	PASS
	total	5690 UNII-3	-11.3	-9.08	≤26.81	PASS
	Ant1	5775	-13.81	-11.59	≤29.82	PASS
	Ant2	5775	-12.68	-10.46	≤29.82	PASS
	total	5775	-10.2	-7.98	≤26.81	PASS
11AX20MIMO	Ant1	5720 UNII-3	-9.59	-7.37	≤29.82	PASS
	Ant2	5720 UNII-3	-10.16	-7.94	≤29.82	PASS
	total	5720 UNII-3	-6.86	-4.64	≤26.81	PASS
	Ant1	5745	-7.87	-5.65	≤29.82	PASS
	Ant2	5745	-8.3	-6.08	≤29.82	PASS
	total	5745	-5.07	-2.85	≤26.81	PASS
	Ant1	5785	-8.39	-6.17	≤29.82	PASS
	Ant2	5785	-8.36	-6.14	≤29.82	PASS

	total	5785	-5.36	-3.14	≤26.81	PASS
	Ant1	5825	-8.41	-6.19	≤29.82	PASS
	Ant2	5825	-8.32	-6.10	≤29.82	PASS
	total	5825	-5.35	-3.13	≤26.81	PASS
11AX40MIMO	Ant1	5710_UNII-3	-12.98	-10.76	≤29.82	PASS
	Ant2	5710_UNII-3	-12.99	-10.77	≤29.82	PASS
	total	5710_UNII-3	-9.97	-7.75	≤26.81	PASS
	Ant1	5755	-9.1	-6.88	≤29.82	PASS
	Ant2	5755	-8.81	-6.59	≤29.82	PASS
	total	5755	-5.94	-3.72	≤26.81	PASS
	Ant1	5795	-9.32	-7.10	≤29.82	PASS
	Ant2	5795	-8.05	-5.83	≤29.82	PASS
11AX80MIMO	total	5795	-5.63	-3.41	≤26.81	PASS
	Ant1	5690_UNII-3	-16.04	-13.82	≤29.82	PASS
	Ant2	5690_UNII-3	-14.58	-12.36	≤29.82	PASS
	total	5690_UNII-3	-12.24	-10.02	≤26.81	PASS
	Ant1	5775	-11.06	-8.84	≤29.82	PASS
	Ant2	5775	-9.83	-7.61	≤29.82	PASS
	total	5775	-7.39	-5.17	≤26.81	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















































