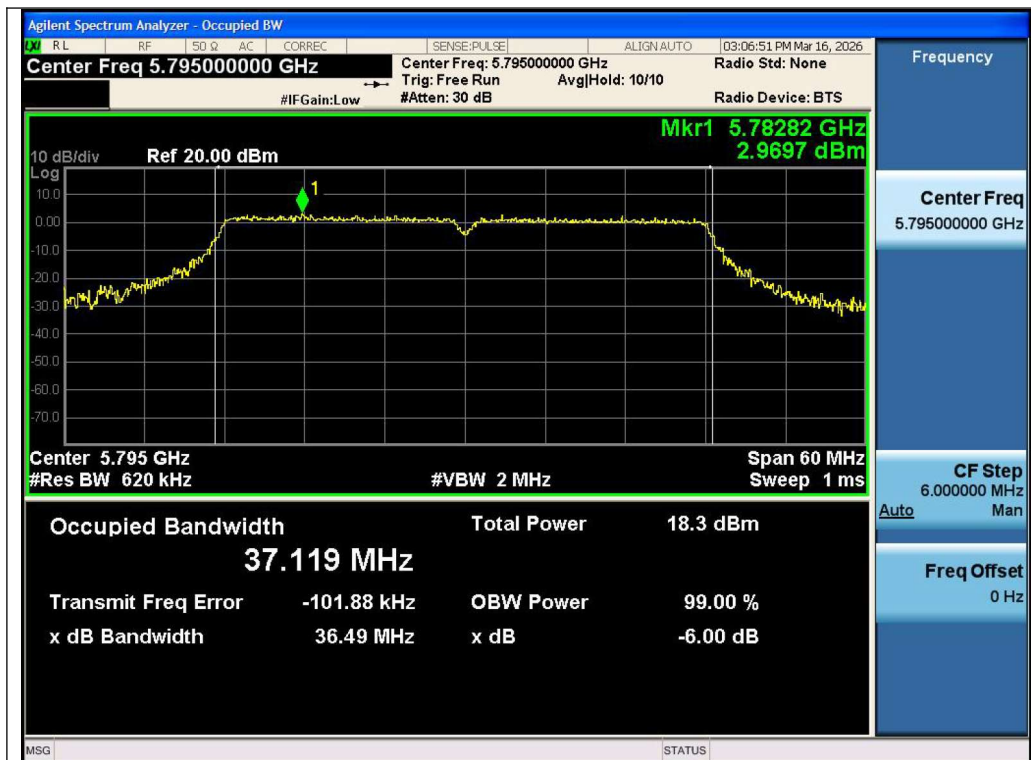




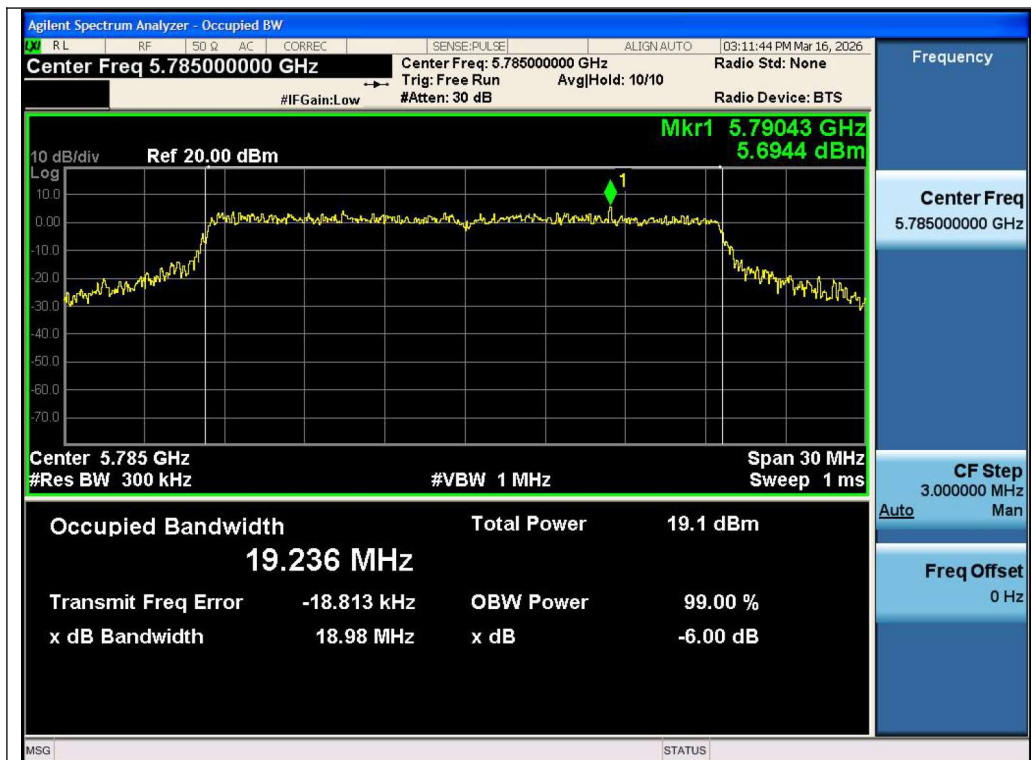
Test_Graph_802.11ac40_ANT1_5795_MCS0_DTSBW



Test_Graph_802.11ax20_ANT1_5745_MCS0_DTSBW

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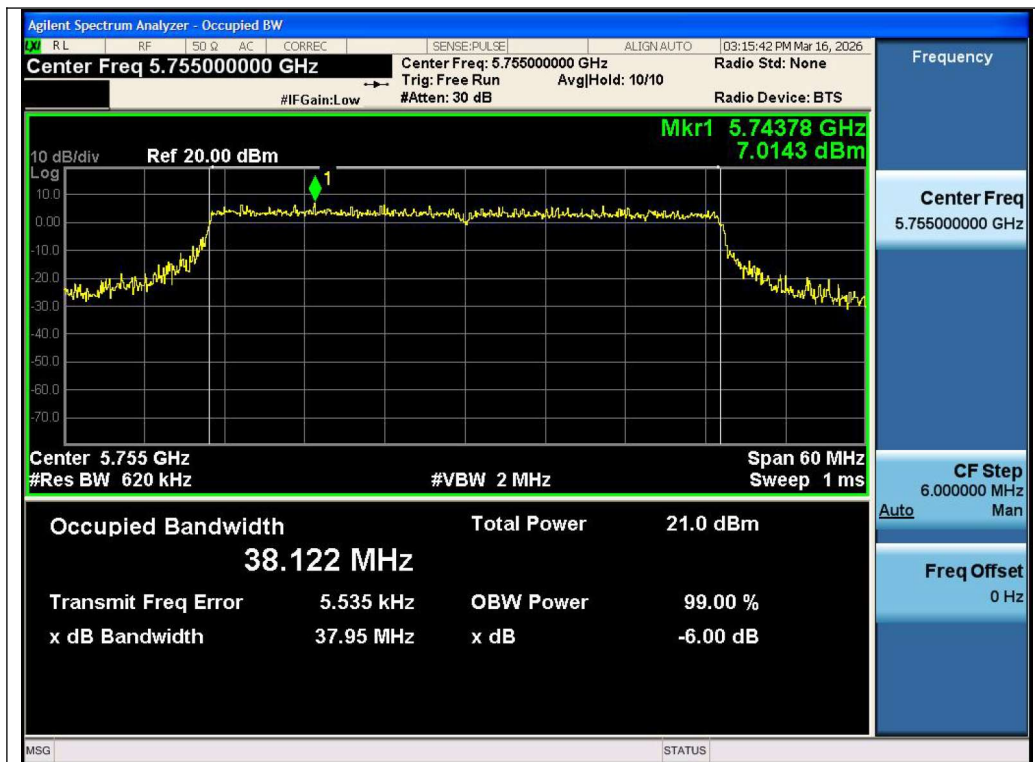
Test_Graph_802.11ax20_ANT1_5785_MCS0_DTSBW



Test_Graph_802.11ax20_ANT1_5825_MCS0_DTSBW

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Test_Graph_802.11ax40_ANT1_5755_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_5795_MCS0_DTSBW

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

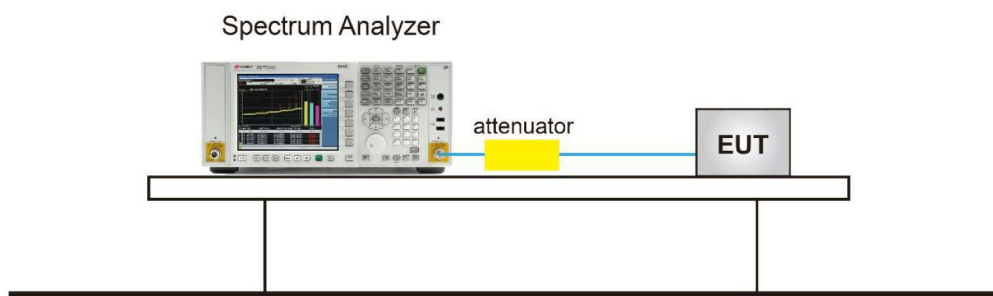
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 Measurement Procedure

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz.
4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$ to the measured result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1/D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
12. The final test results have been increased by the duty cycle factor and recorded in the report

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 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 Fail
802.11a	5180	2.166	11	Pass
	5200	2.205	11	Pass
	5240	2.298	11	Pass
802.11n20	5180	0.861	11	Pass
	5200	0.897	11	Pass
	5240	0.832	11	Pass
802.11n40	5190	-2.224	11	Pass
	5230	-1.162	11	Pass
802.11ac20	5180	1.192	11	Pass
	5200	1.449	11	Pass
	5240	1.075	11	Pass
802.11ac40	5190	-1.754	11	Pass
	5230	-1.554	11	Pass
802.11ax20	5180	1.141	11	Pass
	5200	1.559	11	Pass
	5240	1.654	11	Pass
802.11ax40	5190	-2.005	11	Pass
	5230	-1.892	11	Pass

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Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	2.034	11	Pass
	5300	2.007	11	Pass
	5320	2.380	11	Pass
802.11n20	5260	1.219	11	Pass
	5300	0.830	11	Pass
	5320	1.074	11	Pass
802.11n40	5270	-1.568	11	Pass
	5310	-2.330	11	Pass
802.11ac20	5260	1.582	11	Pass
	5300	0.466	11	Pass
	5320	0.663	11	Pass
802.11ac40	5270	-2.226	11	Pass
	5310	-3.279	11	Pass
802.11ax20	5260	1.210	11	Pass
	5300	1.038	11	Pass
	5320	0.501	11	Pass
802.11ax40	5270	-1.784	11	Pass
	5310	-2.149	11	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	-2.390	11	Pass
	5600	-1.889	11	Pass
	5700	1.872	11	Pass
802.11n20	5500	-3.358	11	Pass
	5600	-3.101	11	Pass
	5700	0.774	11	Pass
802.11n40	5510	-6.475	11	Pass
	5590	-6.362	11	Pass
	5670	-1.677	11	Pass
802.11ac20	5500	-3.448	11	Pass
	5600	-3.274	11	Pass
	5700	0.643	11	Pass
802.11ac40	5510	-6.330	11	Pass
	5590	-6.467	11	Pass
	5670	-1.262	11	Pass
802.11ax20	5500	-1.545	11	Pass
	5600	-3.517	11	Pass
	5700	2.966	11	Pass
802.11ax40	5510	-4.187	11	Pass
	5590	-6.473	11	Pass
	5670	-1.450	11	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
802.11a	5745	-6.282	0.708	30	Pass
	5785	-6.48	0.510	30	Pass
	5825	-8.355	-1.365	30	Pass
802.11n20	5745	-7.011	-0.021	30	Pass
	5785	-8.311	-1.321	30	Pass
	5825	-9.877	-2.887	30	Pass
802.11n40	5755	-10.093	-3.103	30	Pass
	5795	-11.42	-4.430	30	Pass
802.11ac20	5745	-7.083	-0.093	30	Pass
	5785	-8.553	-1.563	30	Pass
	5825	-9.546	-2.556	30	Pass
802.11ac40	5755	-10.219	-3.229	30	Pass
	5795	-11.946	-4.956	30	Pass
802.11ax20	5745	-7.865	-0.875	30	Pass
	5785	-8.925	-1.935	30	Pass
	5825	-10.449	-3.459	30	Pass
802.11ax40	5755	-11.078	-4.088	30	Pass
	5795	-12.289	-5.299	30	Pass

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

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

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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_802.11a_ANT1_5240_6Mbps_PSD



Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

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Test Graphs of Conducted Output Power Spectral Density for band 5.250-5.350 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_PSD



Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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