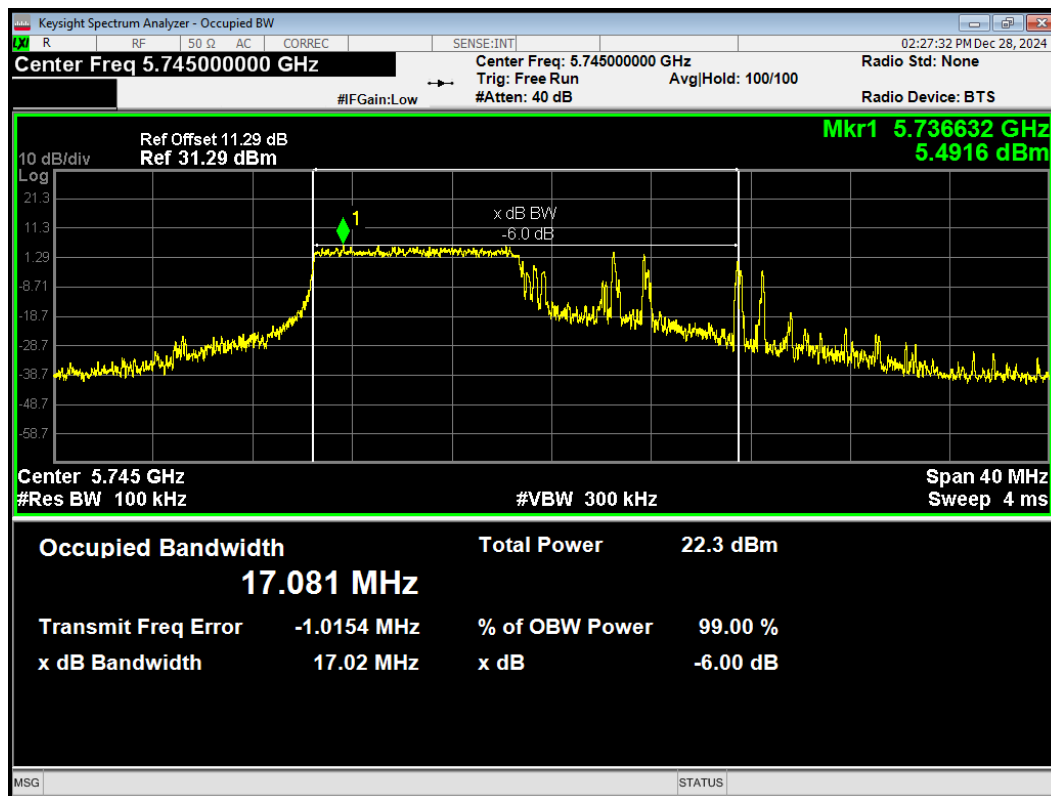


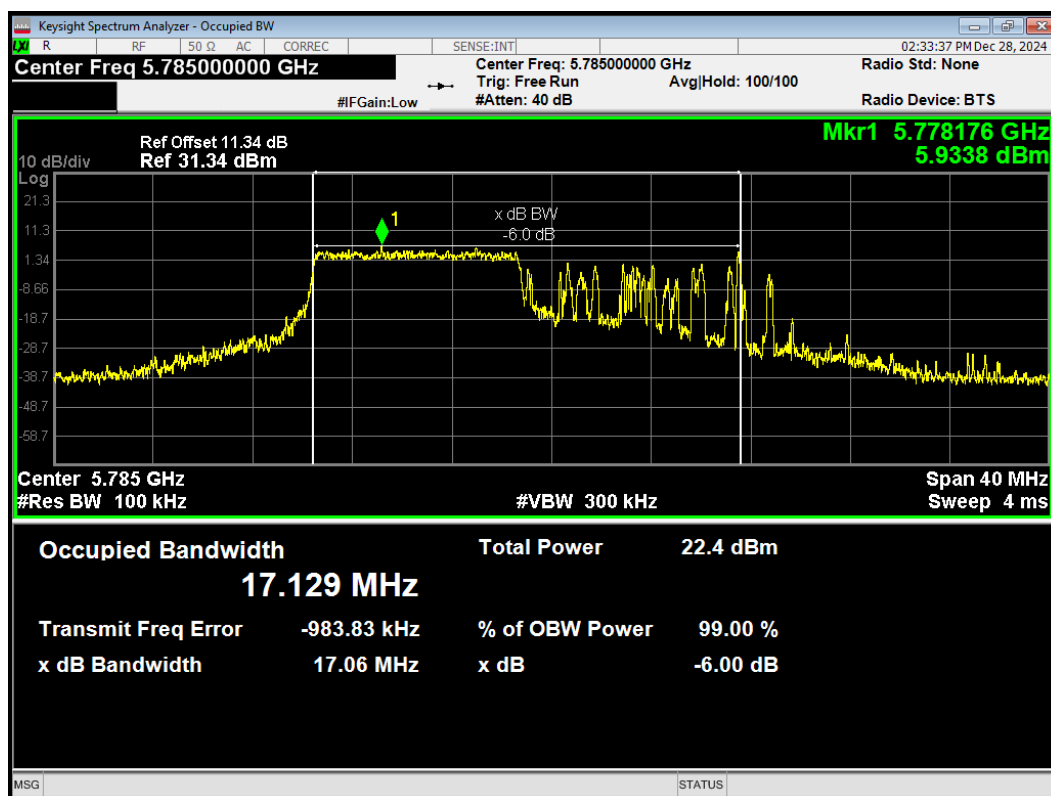
TB Mode

U-NII-3

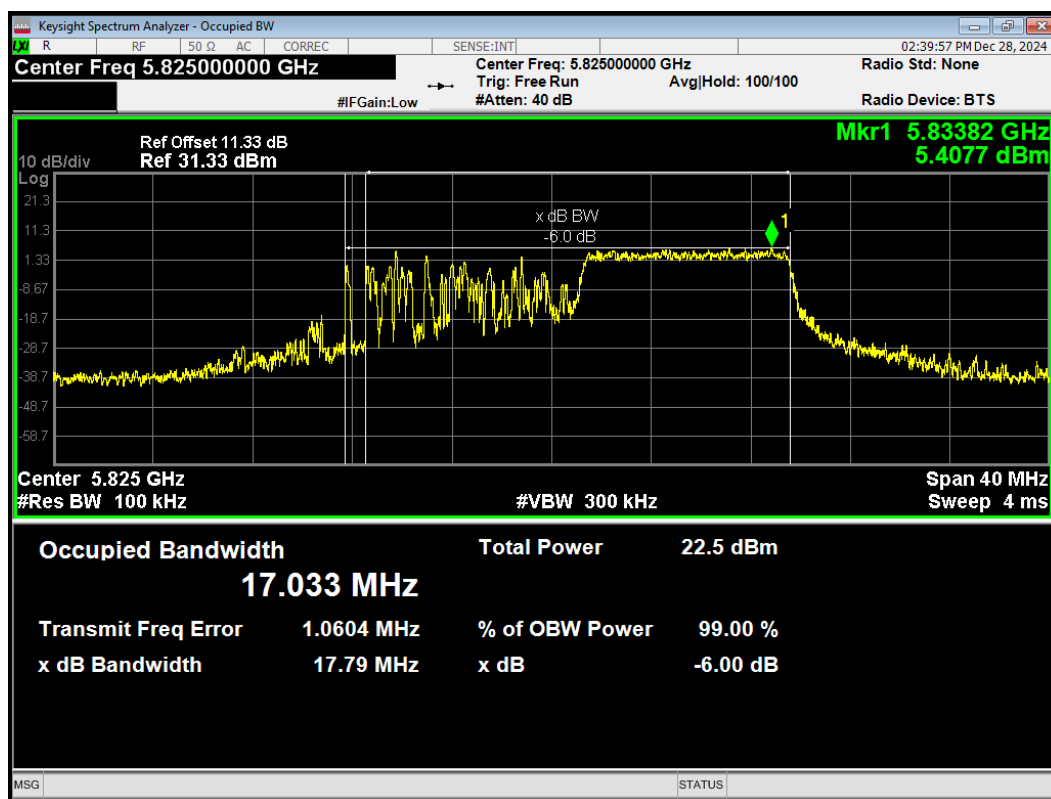
-6dB Bandwidth 802.11ax HE20 106-Tones 5745MHz



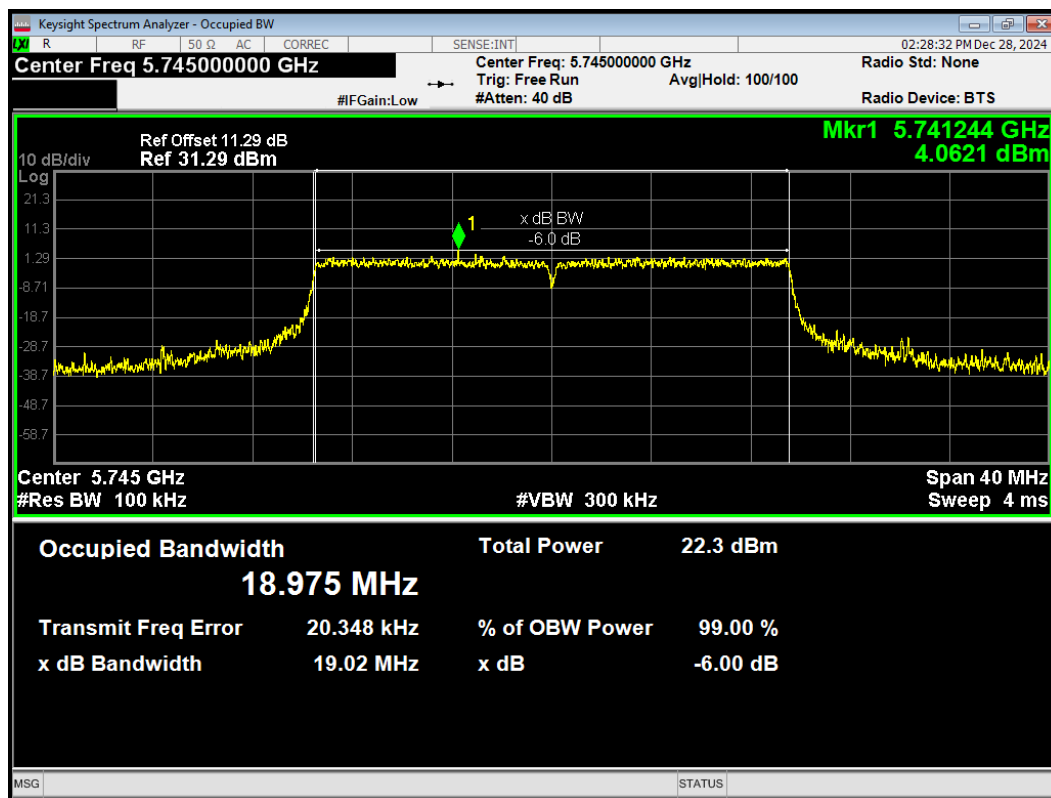
-6dB Bandwidth 802.11ax HE20 106-Tones 5785MHz



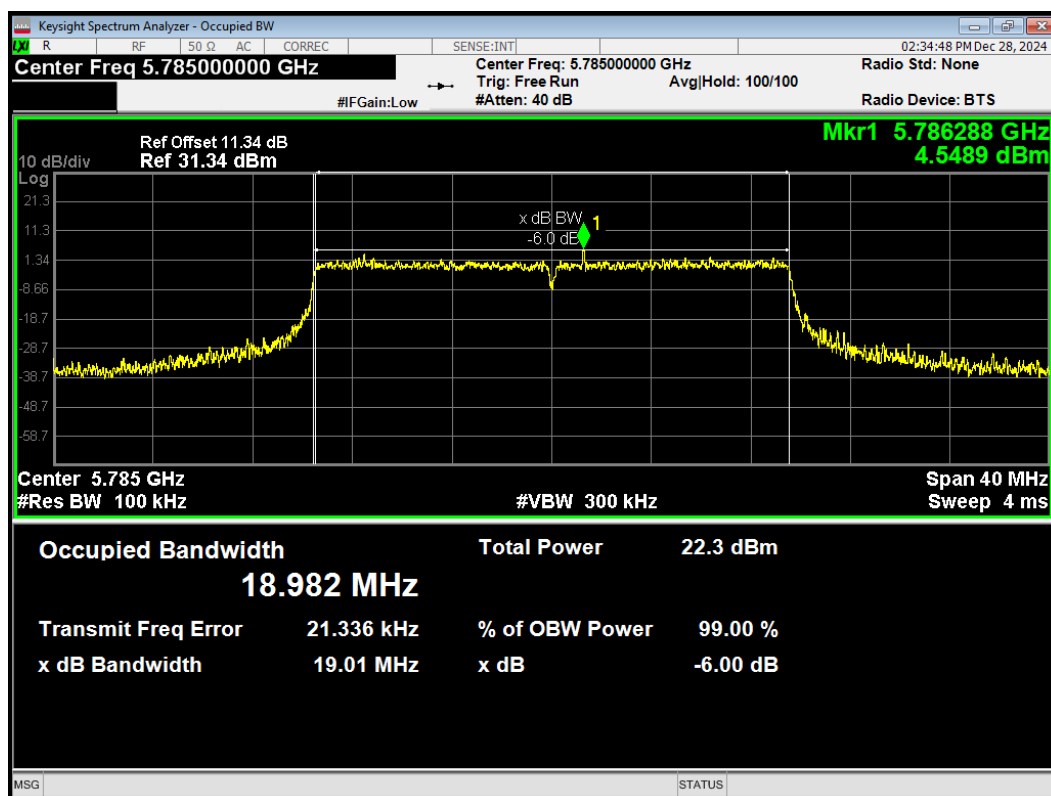
-6dB Bandwidth 802.11ax HE20 106-Tones 5825MHz



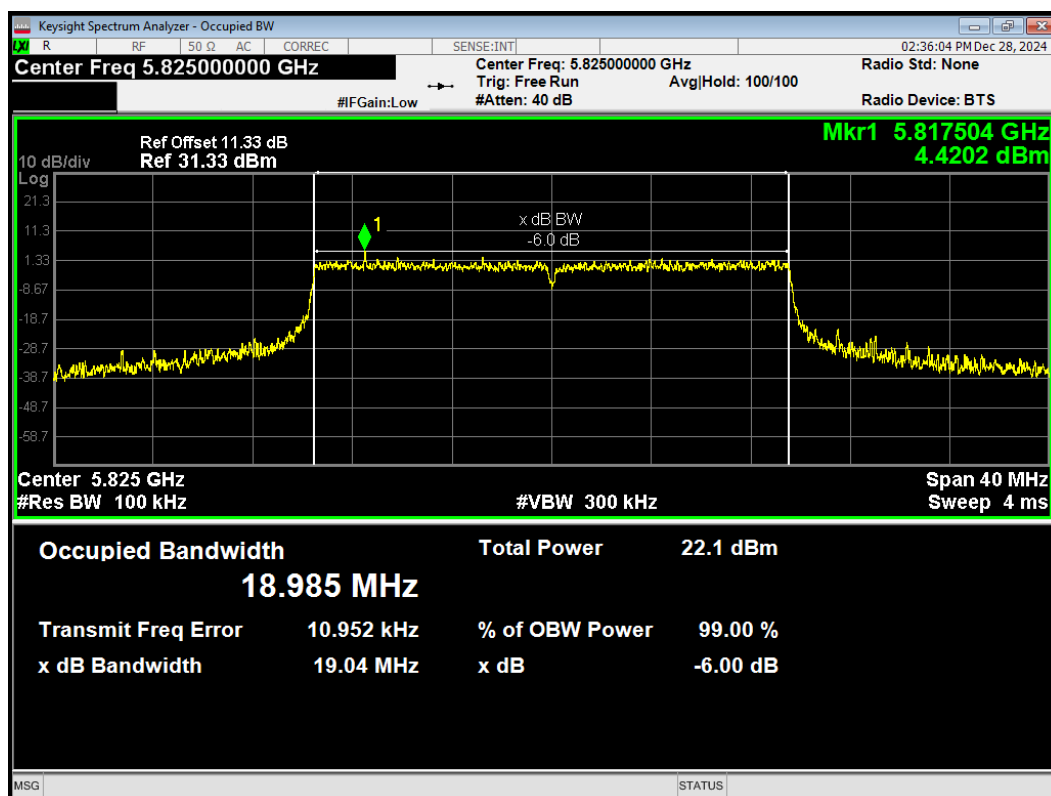
-6dB Bandwidth 802.11ax HE20 242-Tones 5745MHz



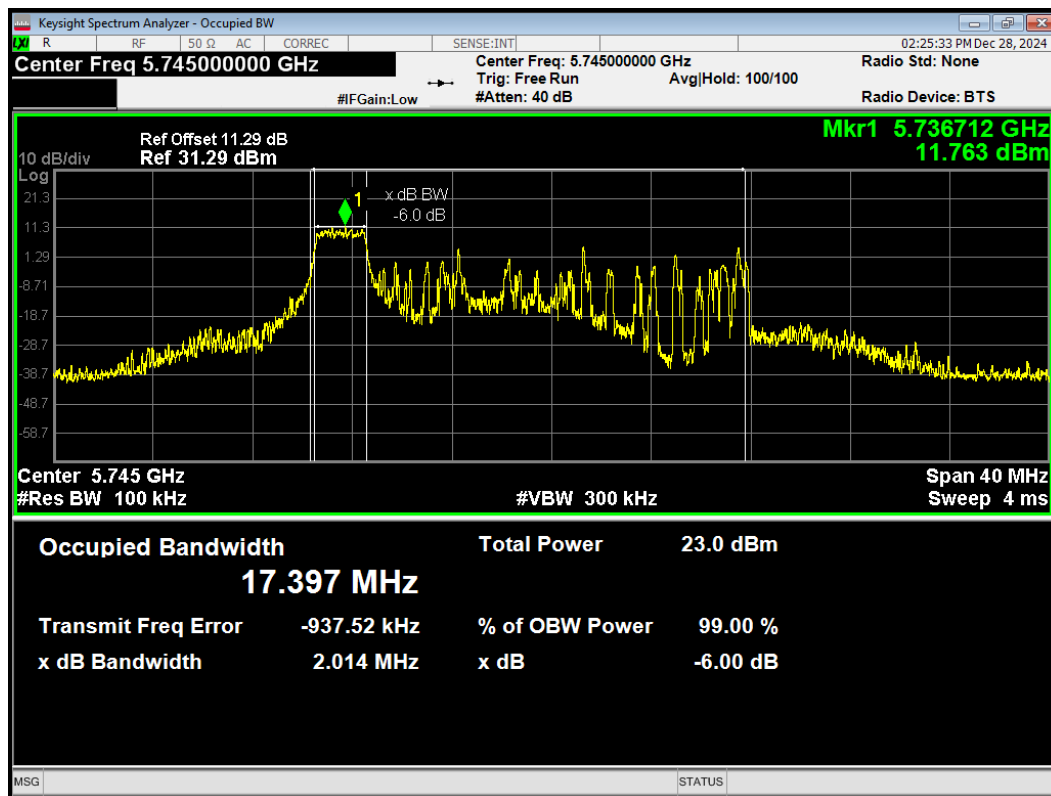
-6dB Bandwidth 802.11ax HE20 242-Tones 5785MHz



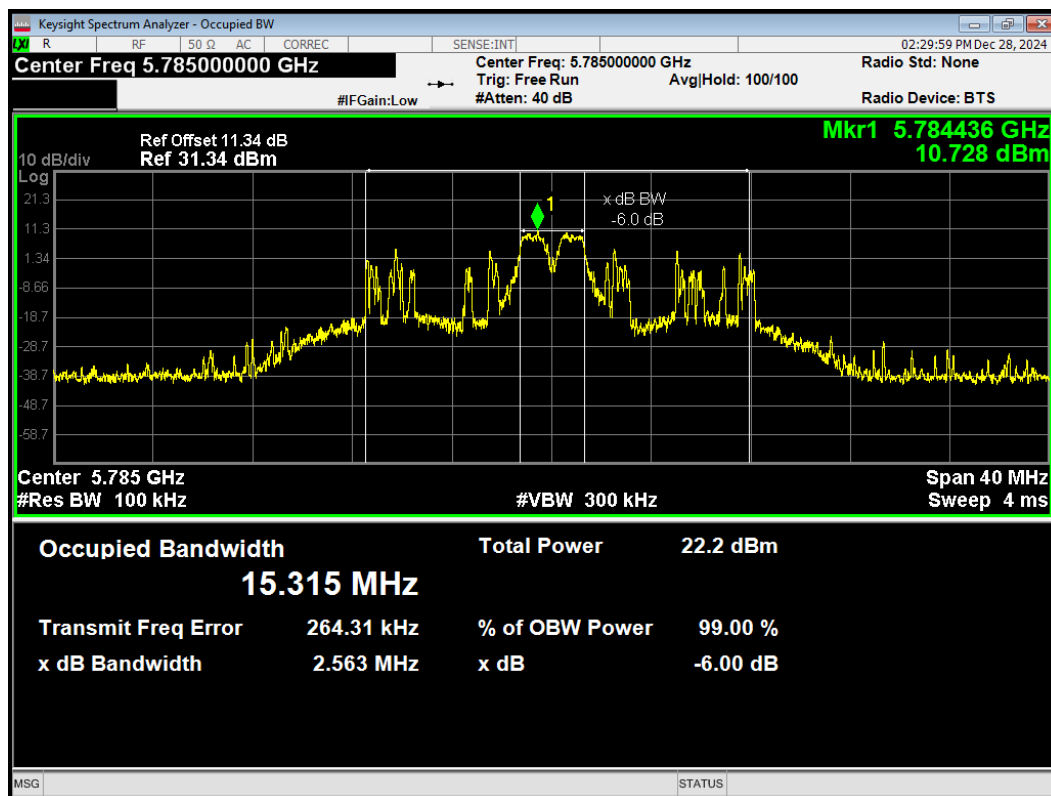
-6dB Bandwidth 802.11ax HE20 242-Tones 5825MHz



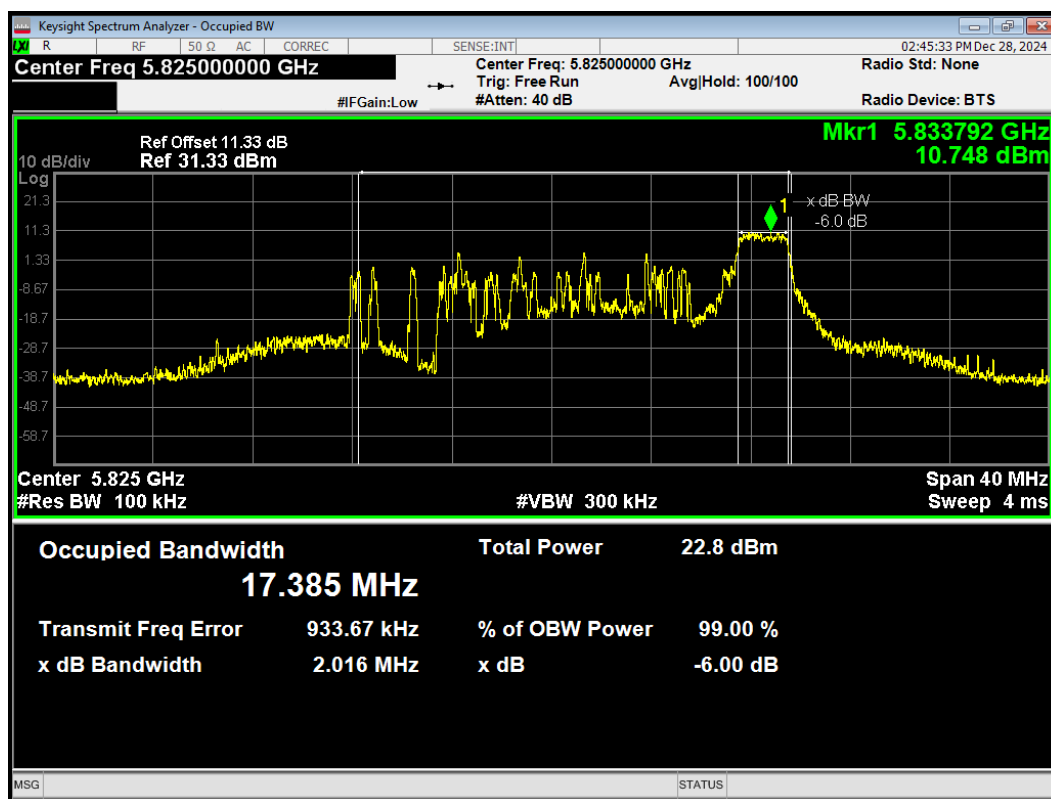
-6dB Bandwidth 802.11ax HE20 26-Tones 5745MHz



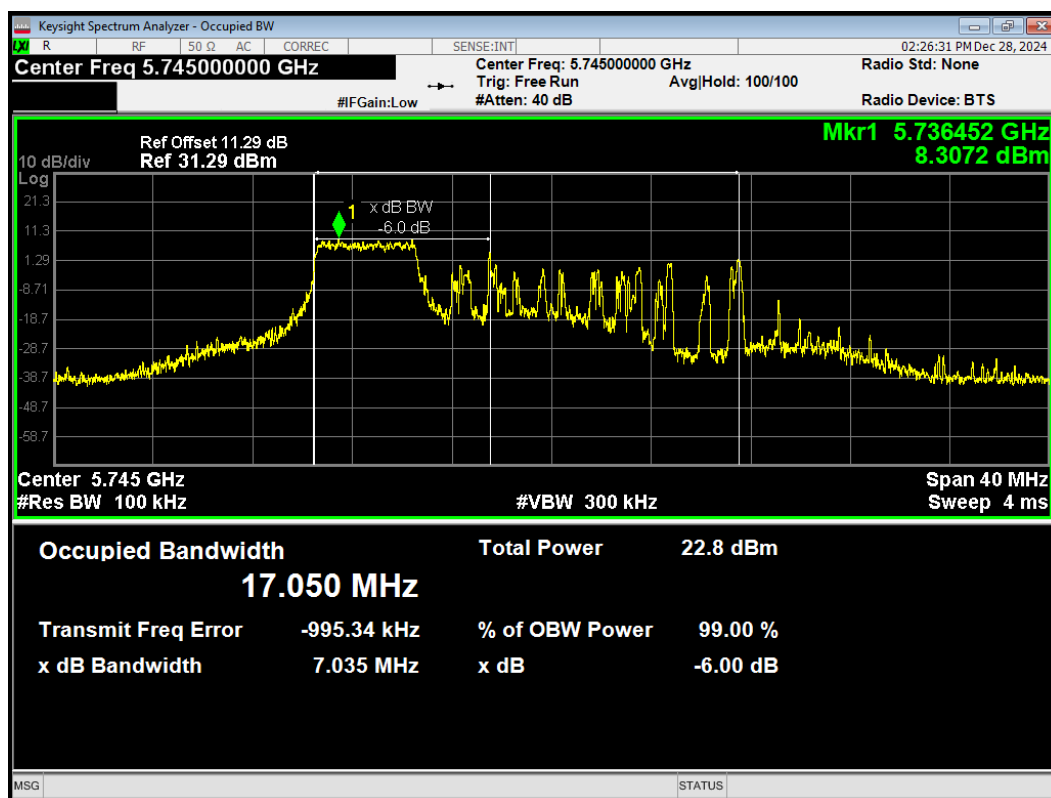
-6dB Bandwidth 802.11ax HE20 26-Tones 5785MHz



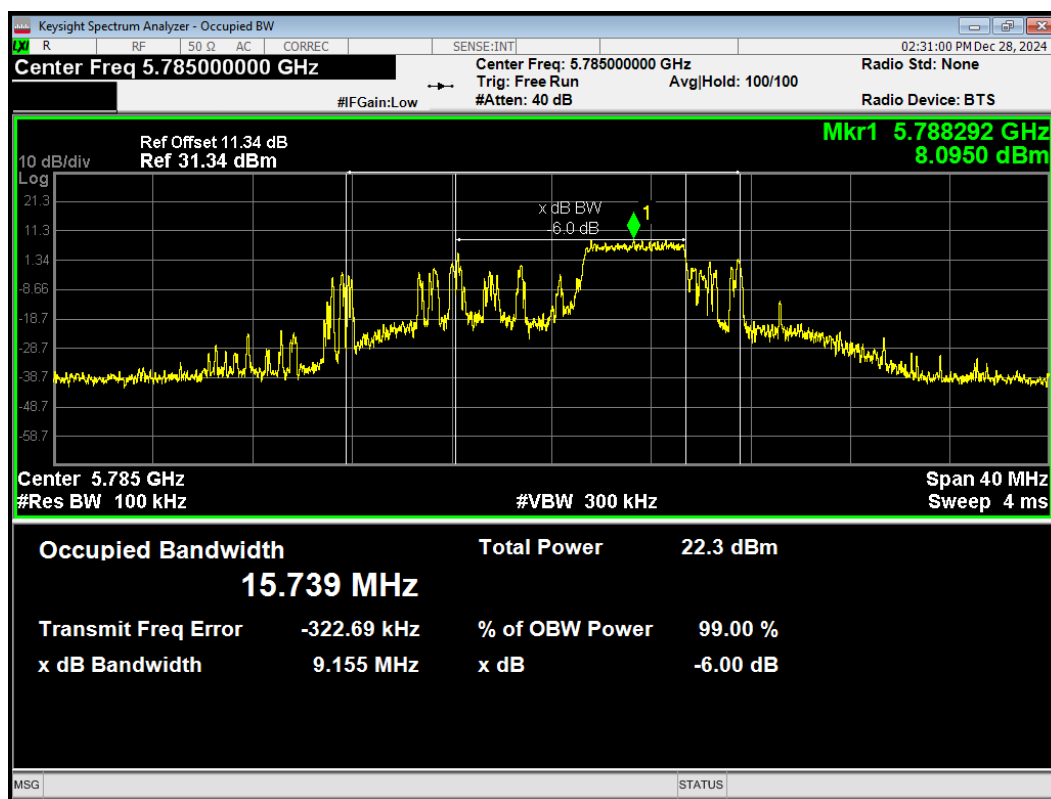
-6dB Bandwidth 802.11ax HE20 26-Tones 5825MHz



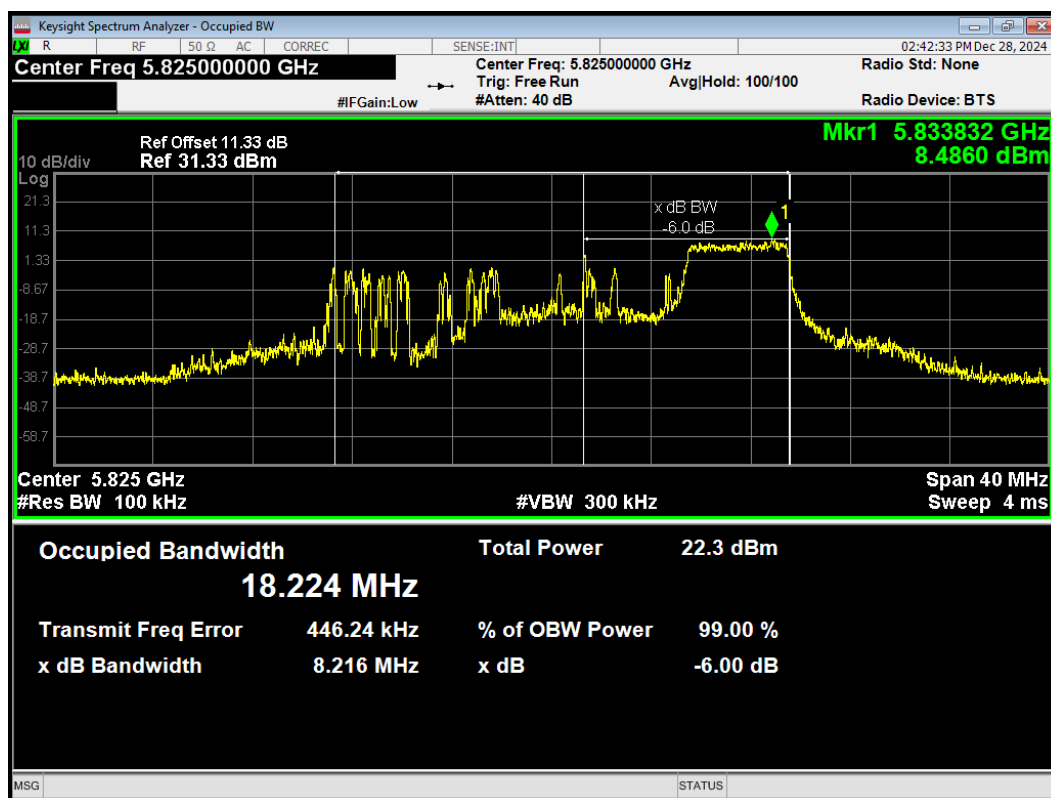
-6dB Bandwidth 802.11ax HE20 52-Tones 5745MHz



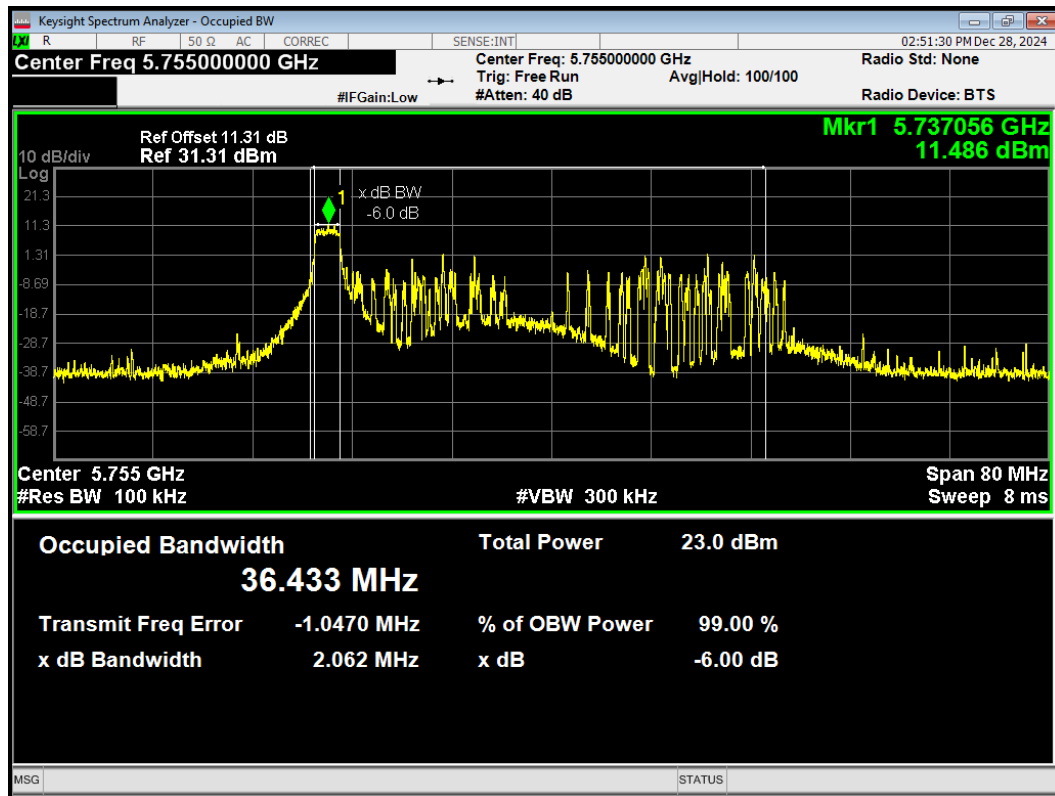
-6dB Bandwidth 802.11ax HE20 52-Tones 5785MHz



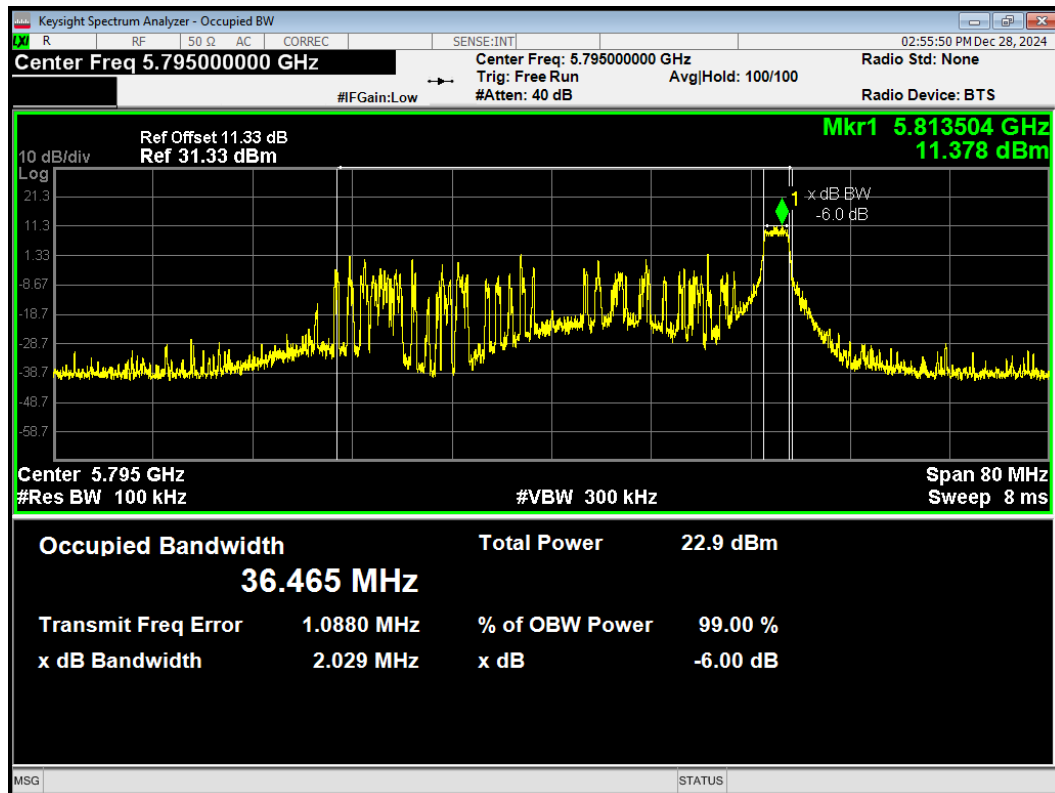
-6dB Bandwidth 802.11ax HE20 52-Tones 5825MHz



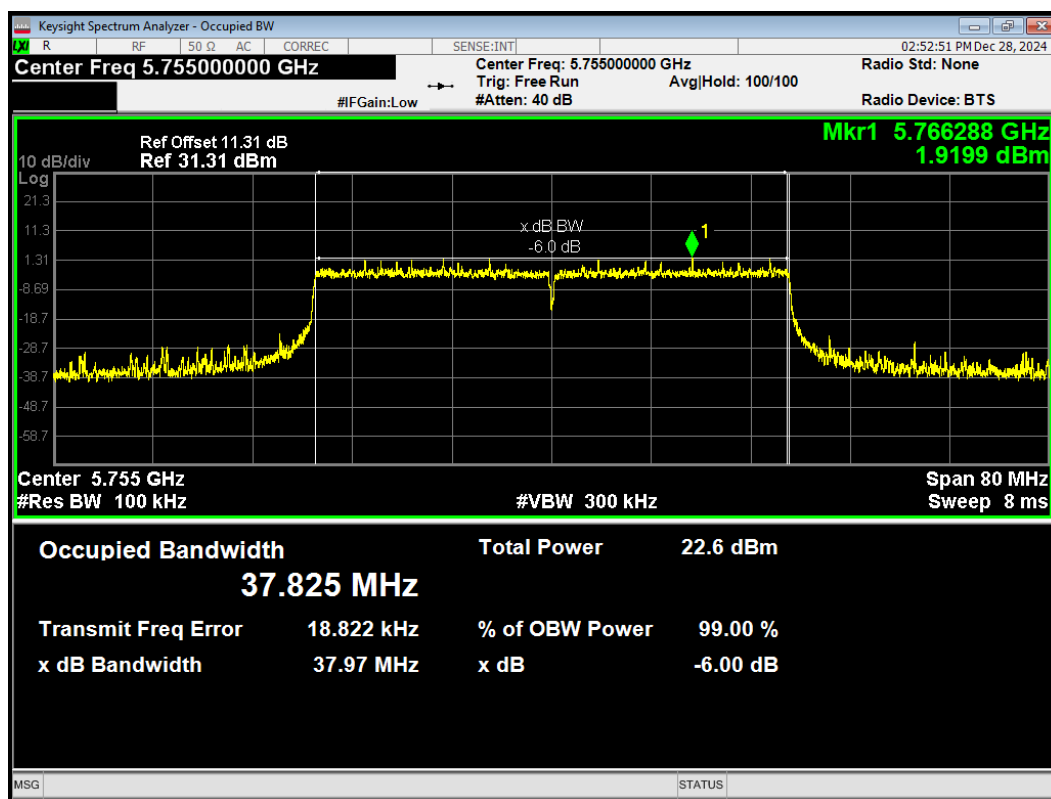
-6dB Bandwidth 802.11ax HE40 26-Tones 5755MHz



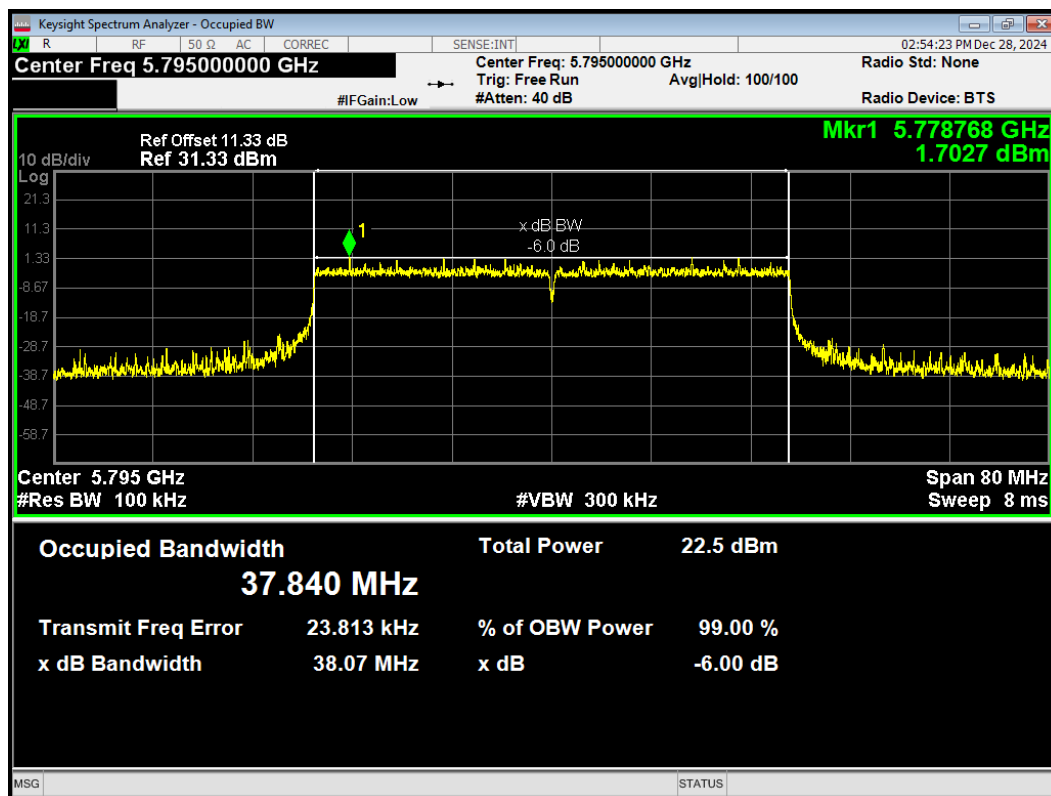
-6dB Bandwidth 802.11ax HE40 26-Tones 5795MHz



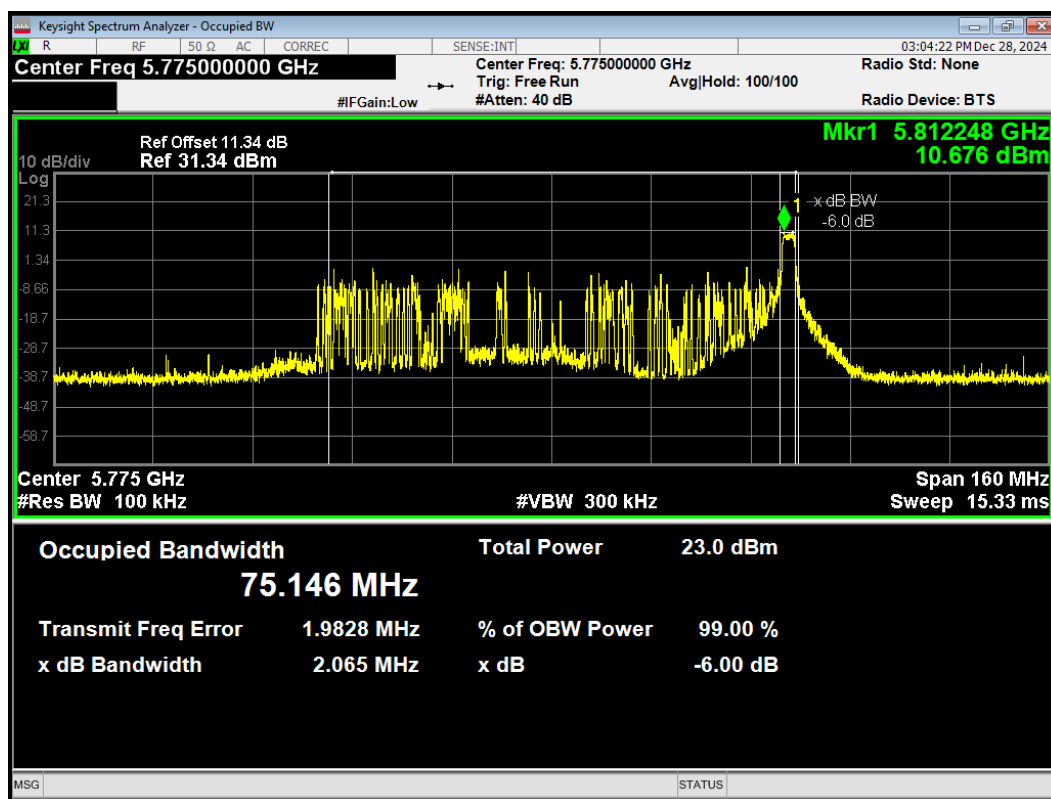
-6dB Bandwidth 802.11ax HE40 484-Tones 5755MHz



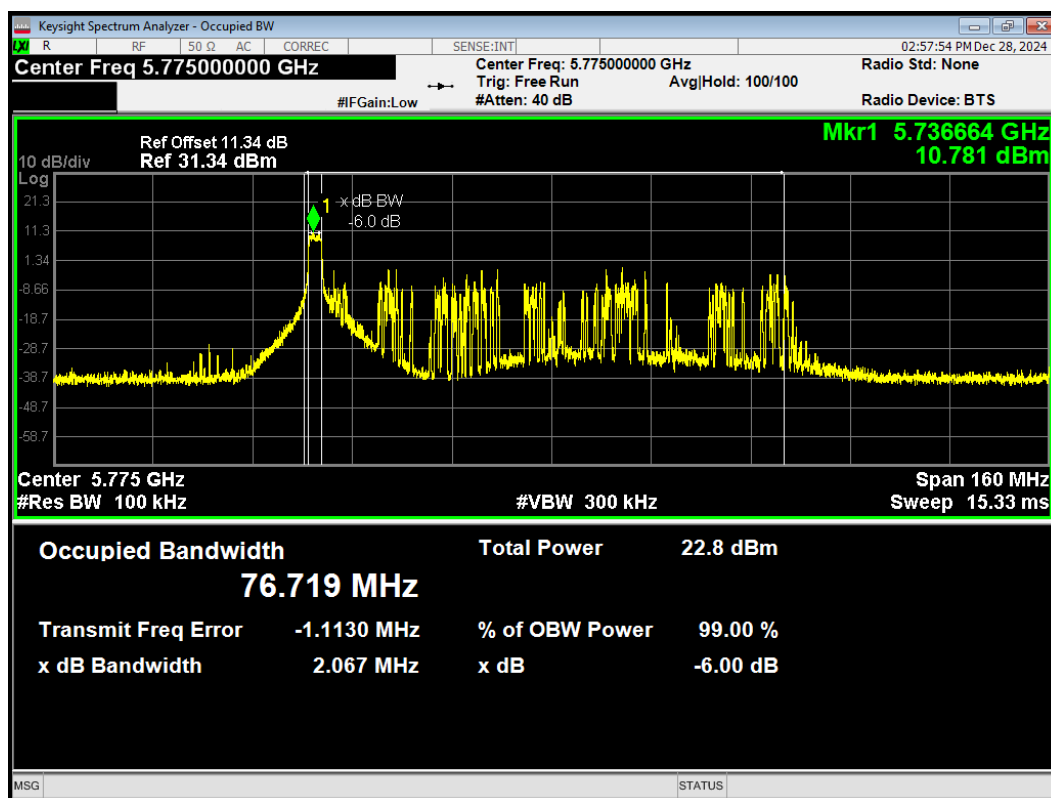
-6dB Bandwidth 802.11ax HE40 484-Tones 5795MHz



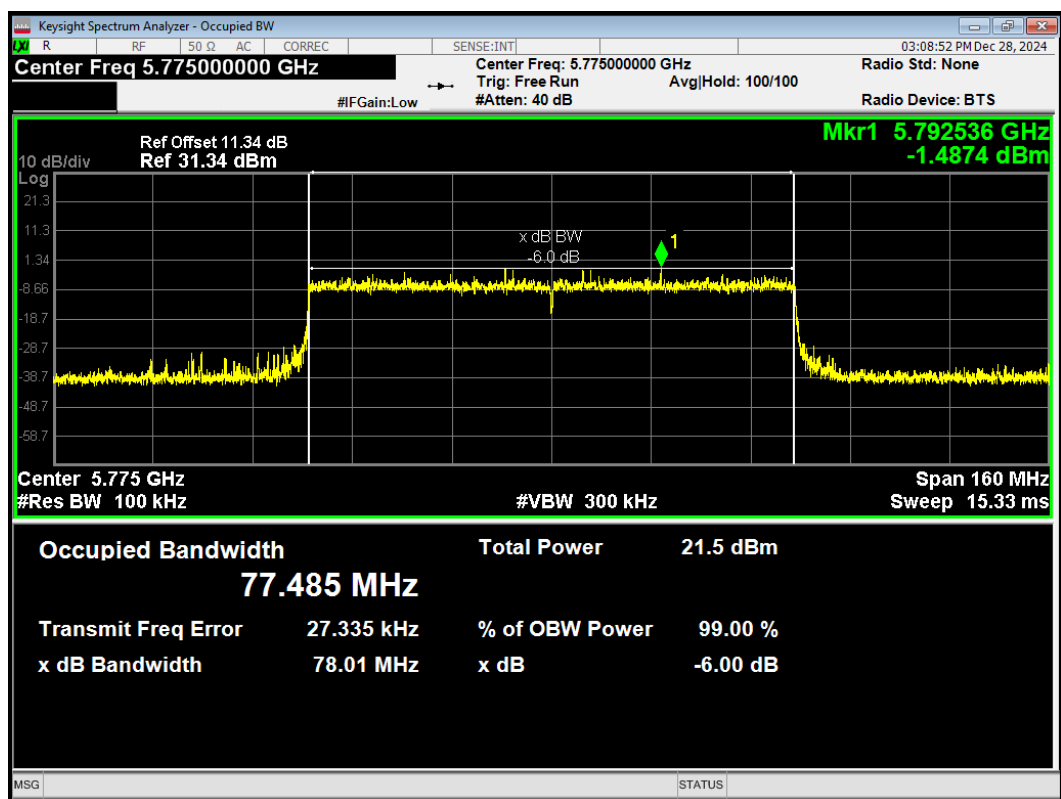
-6dB Bandwidth 802.11ax HE80 26-Tones Index36 5775MHz



-6dB Bandwidth 802.11ax HE80 26-Tones 5775MHz



-6dB Bandwidth 802.11ax HE80 996-Tones 5775MHz



5.2. Average Power Output

Ambient condition

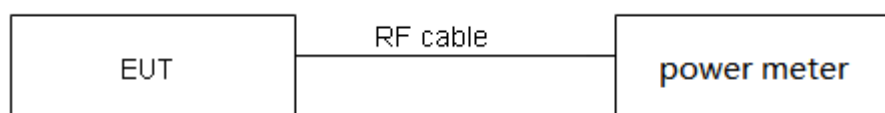
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test Setup



Limits

Rule FCC Part 15.407(a)(1) / FCC Part 15.407(a) (2) / FCC Part 15.407(a) (3)

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23

dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44 \text{ dB}$.

Test Results

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.990	0.000
802.11n HT20	1.000	0.000
802.11n HT40	1.000	0.000
802.11ac VHT20	1.000	0.000
802.11ac VHT40	1.000	0.000
802.11ac VHT80	1.000	0.000
802.11ax HE20	1.000	0.000
802.11ax HE40	1.000	0.000
802.11ax HE80	1.000	0.000
Note: when Duty cycle $\geq$ 0.98, Duty cycle correction Factor not required.		

Power Index
NA

Test Mode		Channel/ Frequency (MHz)	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Maximum Output Power Limit(dBm)
U-NII-2A	802.11a	52/5260	20.00	24.01 >24	24.00
		60/5300	19.78	23.96 <24	23.96
		64/5320	18.49	23.67 <24	23.67
	802.11nHT20	52/5260	19.70	23.94 <24	23.94
		60/5300	19.85	23.98 <24	23.98
		64/5320	19.90	23.99 <24	23.99
	802.11nHT40	54/5270	39.39	26.95 >24	24.00
		62/5310	39.30	26.94 >24	24.00
	802.11ac VHT20	52/5260	19.78	23.96 <24	23.96
		60/5300	19.79	23.96 <24	23.96
		64/5320	19.97	24.00 >24	24.00
	802.11ac VHT40	54/5270	39.43	26.96 >24	24.00
		62/5310	39.27	26.94 >24	24.00
	802.11ac VHT80	58/5290	81.24	30.10 >24	24.00
	802.11ax HE20	52/5260	20.57	24.13 >24	24.00
		60/5300	20.98	24.22 >24	24.00
		64/5320	20.50	24.12 >24	24.00
	802.11ax HE40	54/5270	40.06	27.03 >24	24.00
		62/5310	39.85	27.00 >24	24.00
	802.11ax HE80	58/5290	81.92	30.13 >24	24.00
Note: 250mW=24dBm					

Test Mode		Channel/ Frequency (MHz)	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Maximum Output Power Limit(dBm)
U-NII-2C	802.11a	100/5500	19.61	23.92 <24	23.92
		116/5580	18.69	23.72 <24	23.72
		140/5700	18.88	23.76 <24	23.76
		144/5720	19.30	23.86 <24	23.86
	802.11nHT20	100/5500	19.86	23.98 <24	23.98
		116/5580	20.07	24.03 >24	24.00
		140/5700	19.81	23.97 <24	23.97
		144/5720	19.88	23.98 <24	23.98
	802.11nHT40	102/5510	38.99	26.91 >24	24.00
		110/5550	39.34	26.95 >24	24.00
		134/5670	39.11	26.92 >24	24.00
		142/5710	39.46	26.96 >24	24.00
	802.11ac VHT20	100/5500	19.79	23.96 <24	23.96
		116/5580	19.78	23.96 <24	23.96
		140/5700	19.66	23.94 <24	23.94
		144/5720	19.98	24.01 >24	24.00
	802.11ac VHT40	102/5510	39.28	26.94 >24	24.00
		110/5550	39.38	26.95 >24	24.00
		134/5670	39.35	26.95 >24	24.00
		142/5710	39.43	26.96 >24	24.00
	802.11ac VHT80	106/5530	81.98	30.14 >24	24.00
		138/5690	81.14	30.09 >24	24.00
	802.11ax HE20	100/5500	20.64	24.15 >24	24.00
		116/5580	20.57	24.13 >24	24.00
		140/5700	20.45	24.11 >24	24.00
		144/5720	20.82	24.18 >24	24.00
	802.11ax HE40	102/5510	39.99	27.02 >24	24.00
		110/5550	40.25	27.05 >24	24.00
		134/5670	40.26	27.05 >24	24.00
		142/5710	40.23	27.05 >24	24.00
	802.11ax HE80	106/5530	81.40	30.11 >24	24.00
		138/5690	81.54	30.11 >24	24.00
Note: 250mW=24dBm					

SISO Antenna1
U-NII-1

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	16.83	16.83	24	PASS
	40/5200	17.03	17.03	24	PASS
	48/5240	17.08	17.08	24	PASS
802.11nHT20	36/5180	16.46	16.46	24	PASS
	40/5200	16.69	16.69	24	PASS
	48/5240	16.91	16.91	24	PASS
802.11nHT40	38/5190	15.73	15.73	24	PASS
	46/5230	17.02	17.02	24	PASS
802.11ac VHT20	36/5180	16.54	16.54	24	PASS
	40/5200	16.71	16.71	24	PASS
	48/5240	16.94	16.94	24	PASS
802.11ac VHT40	38/5190	15.73	15.73	24	PASS
	46/5230	17.01	17.01	24	PASS
802.11ac VHT80	42/5210	15.75	15.75	24	PASS
802.11ax HE20	36/5180	16.70	16.70	24	PASS
	40/5200	16.89	16.89	24	PASS
	48/5240	17.08	17.08	24	PASS
802.11ax HE40	38/5190	15.66	15.66	24	PASS
	46/5230	16.98	16.98	24	PASS
802.11ax HE80	42/5210	14.65	14.65	24	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	17.89	17.89	24.00	PASS
	56/5280	17.42	17.42	23.96	PASS
	64/5320	16.40	16.40	23.67	PASS
802.11nHT20	52/5260	16.83	16.83	23.94	PASS
	56/5280	16.33	16.33	23.98	PASS
	64/5320	15.16	15.16	23.99	PASS
802.11nHT40	54/5270	16.78	16.78	24.00	PASS
	62/5310	15.72	15.72	24.00	PASS
802.11ac VHT20	52/5260	16.84	16.84	23.96	PASS
	56/5280	16.30	16.30	23.96	PASS
	64/5320	15.11	15.11	24.00	PASS
802.11ac VHT40	54/5270	16.77	16.77	24.00	PASS
	62/5310	15.71	15.71	24.00	PASS
802.11ac VHT80	58/5290	15.05	15.05	24.00	PASS
802.11ax HE20	52/5260	17.01	17.01	24.00	PASS
	56/5280	16.48	16.48	24.00	PASS
	64/5320	15.34	15.34	24.00	PASS
802.11ax HE40	54/5270	16.73	16.73	24.00	PASS
	62/5310	15.57	15.57	24.00	PASS
802.11ax HE80	58/5290	15.07	15.07	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	16.92	16.92	23.92	PASS
	116/5580	16.56	16.56	23.72	PASS
	140/5700	14.67	14.67	23.76	PASS
	144/5720	14.76	14.76	23.86	PASS
802.11nHT20	100/5500	15.82	15.82	23.98	PASS
	116/5580	15.44	15.44	24.00	PASS
	140/5700	14.54	14.54	23.97	PASS
	144/5720	13.49	13.49	23.98	PASS
802.11nHT40	102/5510	13.78	13.78	24.00	PASS
	110/5550	15.87	15.87	24.00	PASS
	134/5670	14.59	14.59	24.00	PASS
	142/5710	14.23	14.23	24.00	PASS
802.11ac VHT20	100/5500	15.80	15.80	23.96	PASS
	116/5580	15.39	15.39	23.96	PASS
	140/5700	14.51	14.51	23.94	PASS
	144/5720	13.49	13.49	24.00	PASS
802.11ac VHT40	102/5510	13.79	13.79	24.00	PASS
	110/5550	15.86	15.86	24.00	PASS
	134/5670	14.58	14.58	24.00	PASS
802.11ac VHT80	142/5710	14.26	14.26	24.00	PASS
	106/5530	13.64	13.64	24.00	PASS
	138/5690	14.32	14.32	24.00	PASS
802.11ax HE20	100/5500	16.01	16.01	24.00	PASS
	116/5580	15.55	15.55	24.00	PASS
	140/5700	11.78	11.78	24.00	PASS
	144/5720	13.66	13.66	24.00	PASS
802.11ax HE40	102/5510	13.68	13.68	24.00	PASS
	110/5550	15.75	15.75	24.00	PASS
	134/5670	14.45	14.45	24.00	PASS
	142/5710	14.18	14.18	24.00	PASS
802.11ax HE80	106/5530	14.67	14.67	24.00	PASS
	138/5690	14.28	14.28	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

U-NII-3

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	8.45	8.45	30	PASS
	149/5745	15.67	15.67	30	PASS
	157/5785	16.02	16.02	30	PASS
	165/5825	16.38	16.38	30	PASS
802.11nHT20	144/5720	7.66	7.66	30	PASS
	149/5745	14.48	14.48	30	PASS
	157/5785	14.85	14.85	30	PASS
	165/5825	15.25	15.25	30	PASS
802.11nHT40	144/5720	3.71	3.71	30	PASS
	151/5755	14.65	14.65	30	PASS
	159/5795	15.01	15.01	30	PASS
802.11ac VHT20	144/5720	7.65	7.65	30	PASS
	149/5745	14.55	14.55	30	PASS
	157/5785	14.86	14.86	30	PASS
	165/5825	15.18	15.18	30	PASS
802.11ac VHT40	142/5710	3.78	3.78	30	PASS
	151/5755	14.69	14.69	30	PASS
	159/5795	15.09	15.09	30	PASS
802.11ac VHT80	138/5690	0.19	0.19	30	PASS
	155/5775	14.96	14.96	30	PASS
802.11ax HE20	144/5720	8.30	8.30	30	PASS
	149/5745	14.83	14.83	30	PASS
	157/5785	15.09	15.09	30	PASS
	165/5825	15.38	15.38	30	PASS
802.11ax HE40	142/5710	4.38	4.38	30	PASS
	151/5755	14.58	14.58	30	PASS
	159/5795	14.92	14.92	30	PASS
802.11ax HE80	138/5690	1.10	1.10	30	PASS
	155/5775	14.90	14.90	30	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

SISO Antenna2
U-NII-1

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	17.59	17.59	24	PASS
	40/5200	17.64	17.64	24	PASS
	48/5240	17.21	17.21	24	PASS
802.11nHT20	36/5180	16.51	16.51	24	PASS
	40/5200	16.58	16.58	24	PASS
	48/5240	16.13	16.13	24	PASS
802.11nHT40	38/5190	15.65	15.65	24	PASS
	46/5230	16.35	16.35	24	PASS
802.11ac VHT20	36/5180	16.43	16.43	24	PASS
	40/5200	16.58	16.58	24	PASS
	48/5240	16.13	16.13	24	PASS
802.11ac VHT40	38/5190	15.65	15.65	24	PASS
	46/5230	16.31	16.31	24	PASS
802.11ac VHT80	42/5210	15.20	15.20	24	PASS
802.11ax HE20	36/5180	16.67	16.67	24	PASS
	40/5200	16.71	16.71	24	PASS
	48/5240	16.25	16.25	24	PASS
802.11ax HE40	38/5190	15.59	15.59	24	PASS
	46/5230	16.21	16.21	24	PASS
802.11ax HE80	42/5210	14.28	14.28	24	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	17.12	17.12	24.00	PASS
	56/5280	16.93	16.93	23.96	PASS
	64/5320	16.80	16.80	23.67	PASS
802.11nHT20	52/5260	16.00	16.00	23.94	PASS
	56/5280	15.80	15.80	23.98	PASS
	64/5320	15.69	15.69	23.99	PASS
802.11nHT40	54/5270	15.99	15.99	24.00	PASS
	62/5310	15.72	15.72	24.00	PASS
802.11ac VHT20	52/5260	15.95	15.95	23.96	PASS
	56/5280	15.83	15.83	23.96	PASS
	64/5320	15.71	15.71	24.00	PASS
802.11ac VHT40	54/5270	15.94	15.94	24.00	PASS
	62/5310	15.75	15.75	24.00	PASS
802.11ac VHT80	58/5290	14.47	14.47	24.00	PASS
802.11ax HE20	52/5260	16.14	16.14	24.00	PASS
	56/5280	15.96	15.96	24.00	PASS
	64/5320	15.86	15.86	24.00	PASS
802.11ax HE40	54/5270	15.90	15.90	24.00	PASS
	62/5310	15.65	15.65	24.00	PASS
802.11ax HE80	58/5290	14.69	14.69	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	17.05	17.05	23.92	PASS
	116/5580	16.22	16.22	23.72	PASS
	140/5700	14.50	14.50	23.76	PASS
	144/5720	14.67	14.67	23.86	PASS
802.11nHT20	100/5500	15.83	15.83	23.98	PASS
	116/5580	15.00	15.00	24.00	PASS
	140/5700	14.34	14.34	23.97	PASS
	144/5720	13.46	13.46	23.98	PASS
802.11nHT40	102/5510	14.06	14.06	24.00	PASS
	110/5550	15.53	15.53	24.00	PASS
	134/5670	14.20	14.20	24.00	PASS
	142/5710	14.12	14.12	24.00	PASS
802.11ac VHT20	100/5500	15.88	15.88	23.96	PASS
	116/5580	15.05	15.05	23.96	PASS
	140/5700	14.33	14.33	23.94	PASS
	144/5720	13.51	13.51	24.00	PASS
802.11ac VHT40	102/5510	14.09	14.09	24.00	PASS
	110/5550	15.53	15.53	24.00	PASS
	134/5670	14.20	14.20	24.00	PASS
	142/5710	14.13	14.13	24.00	PASS
802.11ac VHT80	106/5530	13.52	13.52	24.00	PASS
	138/5690	14.07	14.07	24.00	PASS
802.11ax HE20	100/5500	16.00	16.00	24.00	PASS
	116/5580	15.14	15.14	24.00	PASS
	140/5700	11.55	11.55	24.00	PASS
	144/5720	13.47	13.47	24.00	PASS
802.11ax HE40	102/5510	13.95	13.95	24.00	PASS
	110/5550	15.40	15.40	24.00	PASS
	134/5670	14.13	14.13	24.00	PASS
	142/5710	13.99	13.99	24.00	PASS
802.11ax HE80	106/5530	14.57	14.57	24.00	PASS
	138/5690	14.03	14.03	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	8.32	8.32	30	PASS
	149/5745	15.82	15.82	30	PASS
	157/5785	15.66	15.66	30	PASS
	165/5825	15.68	15.68	30	PASS
802.11nHT20	144/5720	7.50	7.50	30	PASS
	149/5745	14.65	14.65	30	PASS
	157/5785	14.45	14.45	30	PASS
	165/5825	14.49	14.49	30	PASS
802.11nHT40	144/5720	3.33	3.33	30	PASS
	151/5755	14.63	14.63	30	PASS
	159/5795	14.50	14.50	30	PASS
802.11ac VHT20	144/5720	7.54	7.54	30	PASS
	149/5745	14.71	14.71	30	PASS
	157/5785	14.41	14.41	30	PASS
	165/5825	14.52	14.52	30	PASS
802.11ac VHT40	142/5710	3.39	3.39	30	PASS
	151/5755	14.60	14.60	30	PASS
	159/5795	14.55	14.55	30	PASS
802.11ac VHT80	138/5690	-0.30	-0.30	30	PASS
	155/5775	14.69	14.69	30	PASS
802.11ax HE20	144/5720	7.99	7.99	30	PASS
	149/5745	14.84	14.84	30	PASS
	157/5785	14.66	14.66	30	PASS
	165/5825	14.69	14.69	30	PASS
802.11ax HE40	142/5710	3.98	3.98	30	PASS
	151/5755	14.55	14.55	30	PASS
	159/5795	14.43	14.43	30	PASS
802.11ax HE80	138/5690	0.55	0.55	30	PASS
	155/5775	14.68	14.68	30	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor					

MIMO

U-NII-1

Test Mode	Channel/ Frequency (MHz)	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11a	36/5180	17.52	17.52	17.40	17.40	20.47	24.00	PASS
	40/5200	17.67	17.67	17.39	17.39	20.54	24.00	PASS
	48/5240	17.81	17.81	17.00	17.00	20.43	24.00	PASS
802.11nHT20	36/5180	16.38	16.38	16.28	16.28	19.34	24.00	PASS
	40/5200	16.54	16.54	16.33	16.33	19.45	24.00	PASS
	48/5240	16.72	16.72	15.89	15.89	19.34	24.00	PASS
802.11nHT40	38/5190	15.56	15.56	15.44	15.44	18.51	24.00	PASS
	46/5230	16.83	16.83	16.08	16.08	19.48	24.00	PASS
802.11ac VHT20	36/5180	16.45	16.45	16.27	16.27	19.37	24.00	PASS
	40/5200	16.62	16.62	16.31	16.31	19.48	24.00	PASS
	48/5240	16.85	16.85	15.86	15.86	19.39	24.00	PASS
802.11ac VHT40	38/5190	15.62	15.62	15.44	15.44	18.54	24.00	PASS
	46/5230	16.93	16.93	16.09	16.09	19.54	24.00	PASS
802.11ac VHT80	42/5210	15.72	15.72	15.13	15.13	18.45	24.00	PASS
802.11ax HE20	36/5180	16.54	16.54	16.39	16.39	19.48	24.00	PASS
	40/5200	16.71	16.71	16.48	16.48	19.61	24.00	PASS
	48/5240	16.93	16.93	15.99	15.99	19.50	24.00	PASS
802.11ax HE40	38/5190	15.45	15.45	15.32	15.32	18.40	24.00	PASS
	46/5230	16.78	16.78	15.98	15.98	19.41	24.00	PASS
802.11ax HE80	42/5210	14.65	14.65	14.13	14.13	17.41	24.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2.According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii):If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.41 + 0 = 2.41 \text{ dBi} < 6 \text{ dBi}$. So the power limit is 24dBm.

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11a	52/5260	17.71	17.71	16.84	16.84	20.31	24.00	PASS
	56/5280	17.22	17.22	16.66	16.66	19.96	23.96	PASS
	64/5320	16.18	16.18	16.56	16.56	19.38	23.67	PASS
802.11nHT20	52/5260	16.53	16.53	15.77	15.77	19.18	23.94	PASS
	56/5280	16.08	16.08	15.60	15.60	18.86	23.98	PASS
	64/5320	14.99	14.99	15.40	15.40	18.21	23.99	PASS
802.11nHT40	54/5270	16.72	16.72	15.78	15.78	19.29	24.00	PASS
	62/5310	15.64	15.64	15.51	15.51	18.59	24.00	PASS
802.11ac VHT20	52/5260	16.69	16.69	15.77	15.77	19.26	23.96	PASS
	56/5280	16.22	16.22	15.49	15.49	18.88	23.96	PASS
	64/5320	15.03	15.03	15.48	15.48	18.27	24.00	PASS
802.11ac VHT40	54/5270	16.69	16.69	15.75	15.75	19.26	24.00	PASS
	62/5310	15.63	15.63	15.52	15.52	18.59	24.00	PASS
802.11ac VHT80	58/5290	15.08	15.08	14.51	14.51	17.81	24.00	PASS
802.11ax HE20	52/5260	16.85	16.85	15.90	15.90	19.41	24.00	PASS
	56/5280	16.34	16.34	15.69	15.69	19.04	24.00	PASS
	64/5320	15.16	15.16	15.63	15.63	18.41	24.00	PASS
802.11ax HE40	54/5270	16.57	16.57	15.63	15.63	19.14	24.00	PASS
	62/5310	15.48	15.48	15.39	15.39	18.45	24.00	PASS
802.11ax HE80	58/5290	15.10	15.10	14.53	14.53	17.83	24.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2.According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii):If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.17 + 0 = 5.18 \text{ dB} < 6 \text{ dB}$. So the power limit is 24dBm.

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11a	100/5500	16.71	16.71	16.88	16.88	19.81	23.92	PASS
	116/5580	16.34	16.34	16.04	16.04	19.20	23.72	PASS
	140/5700	14.52	14.52	14.30	14.30	17.42	23.76	PASS
	144/5720	14.60	14.60	14.54	14.54	17.58	23.86	PASS
802.11nHT20	100/5500	15.63	15.63	15.66	15.66	18.66	23.98	PASS
	116/5580	15.22	15.22	14.88	14.88	18.06	24.00	PASS
	140/5700	14.36	14.36	14.11	14.11	17.25	23.97	PASS
	144/5720	13.36	13.36	13.28	13.28	16.33	23.98	PASS
802.11nHT40	102/5510	13.72	13.72	13.97	13.97	16.86	24.00	PASS
	110/5550	15.77	15.77	15.38	15.38	18.59	24.00	PASS
	134/5670	14.48	14.48	14.03	14.03	17.27	24.00	PASS
	142/5710	14.32	14.32	13.97	13.97	17.16	24.00	PASS
802.11ac VHT20	100/5500	15.71	15.71	15.70	15.70	18.72	23.96	PASS
	116/5580	15.33	15.33	14.85	14.85	18.11	23.96	PASS
	140/5700	14.50	14.50	14.15	14.15	17.34	23.94	PASS
	144/5720	13.48	13.48	13.25	13.25	16.38	24.00	PASS
802.11ac VHT40	102/5510	13.71	13.71	13.95	13.95	16.84	24.00	PASS
	110/5550	15.75	15.75	15.35	15.35	18.56	24.00	PASS
	134/5670	14.49	14.49	14.03	14.03	17.28	24.00	PASS
	142/5710	14.29	14.29	13.97	13.97	17.14	24.00	PASS
802.11ac VHT80	106/5530	13.59	13.59	13.57	13.57	16.59	24.00	PASS
	138/5690	14.36	14.36	13.90	13.90	17.15	24.00	PASS
802.11ax HE20	100/5500	15.82	15.82	15.83	15.83	18.84	24.00	PASS
	116/5580	15.42	15.42	14.99	14.99	18.22	24.00	PASS
	140/5700	11.66	11.66	11.40	11.40	14.54	24.00	PASS
	144/5720	13.47	13.47	13.24	13.24	16.37	24.00	PASS
802.11ax HE40	102/5510	13.58	13.58	13.81	13.81	16.71	24.00	PASS
	110/5550	15.62	15.62	15.23	15.23	18.44	24.00	PASS
	134/5670	14.38	14.38	13.92	13.92	17.17	24.00	PASS
	142/5710	14.13	14.13	13.77	13.77	16.96	24.00	PASS
802.11ax HE80	106/5530	14.67	14.67	14.50	14.50	17.60	24.00	PASS
	138/5690	14.28	14.28	13.84	13.84	17.08	24.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2.According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii):If antenna gains are not equal, the user may use

either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{ANT\ MAX} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

So directional gain = $G_{ANT\ MAX} + \text{Array Gain} = 2.94 + 0 = 5.95 \text{ dB} < 6 \text{ dB}$. So the power limit is 24dBm.

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Test Mode	Channel/ Frequency (MHz)	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11a	144/5720	8.12	8.12	8.00	8.00	11.07	30.00	PASS
	149/5745	15.61	15.61	15.65	15.65	18.64	30.00	PASS
	157/5785	15.87	15.87	15.48	15.48	18.69	30.00	PASS
	165/5825	16.17	16.17	15.42	15.42	18.82	30.00	PASS
802.11nHT20	144/5720	7.58	7.58	7.41	7.41	7.41	30.00	PASS
	149/5745	14.46	14.46	14.49	14.49	17.49	30.00	PASS
	157/5785	14.73	14.73	14.28	14.28	17.52	30.00	PASS
	165/5825	15.00	15.00	14.25	14.25	17.65	30.00	PASS
802.11nHT40	142/5710	3.74	3.74	3.25	3.25	6.51	30.00	PASS
	151/5755	14.65	14.65	14.43	14.43	17.55	30.00	PASS
	159/5795	15.01	15.01	14.31	14.31	17.68	30.00	PASS
802.11ac VHT20	144/5720	7.76	7.76	7.46	7.46	10.62	30.00	PASS
	149/5745	14.54	14.54	14.48	14.48	17.52	30.00	PASS
	157/5785	14.85	14.85	14.30	14.30	17.59	30.00	PASS
	165/5825	15.06	15.06	14.19	14.19	17.66	30.00	PASS
802.11ac VHT40	142/5710	3.70	3.70	3.28	3.28	6.51	30.00	PASS
	151/5755	14.64	14.64	14.43	14.43	17.55	30.00	PASS
	159/5795	15.00	15.00	14.30	14.30	17.67	30.00	PASS
802.11ac VHT80	138/5690	0.00	0.00	-0.48	-0.48	2.78	30.00	PASS
	155/5775	14.96	14.96	14.49	14.49	17.74	30.00	PASS
802.11ax HE20	144/5720	8.20	8.20	7.92	7.92	11.07	30.00	PASS
	149/5745	14.73	14.73	14.60	14.60	17.68	30.00	PASS
	157/5785	14.98	14.98	14.41	14.41	17.71	30.00	PASS
	165/5825	15.23	15.23	14.41	14.41	17.85	30.00	PASS
802.11ax HE40	142/5710	4.29	4.29	3.90	3.90	7.11	30.00	PASS
	151/5755	14.52	14.52	14.30	14.30	17.42	30.00	PASS

	159/5795	14.85	14.85	14.19	14.19	17.54	30.00	PASS
802.11ax HE80	138/5690	0.84	0.84	0.36	0.36	3.62	30.00	PASS
	155/5775	14.93	14.93	14.49	14.49	17.73	30.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),
The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2.According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii):If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.72 + 0 = 2.72\text{dBi} < 6\text{dBi}$. So the power limit is 30dBm.

TB Mode

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11ax HE20 26-Tones:RU Index 0	0.997	0.00
802.11ax HE20 26-Tones:RU Index 4	0.997	0.00
802.11ax HE20 26-Tones:RU Index 8	0.997	0.00
02.11ax HE20 52-Tones:RU Index 37	0.990	0.00
802.11ax HE20 52-Tones:RU Index 38	0.997	0.00
802.11ax HE20 52-Tones:RU Index 40	0.997	0.00
802.11ax HE20 106-Tones:RU Index 53	0.997	0.00
802.11ax HE20 106-Tones:RU Index 54	0.996	0.00
802.11ax HE20 242-Tones:RU Index 61	0.996	0.00
802.11ax HE40 26-Tones:RU Index 0	0.999	0.00
802.11ax HE40 26-Tones:RU Index 17	0.999	0.00
802.11ax HE40 484-Tones:RU Index 65	0.999	0.00
802.11ax HE80 26-Tones:RU Index 0	0.997	0.00
802.11ax HE80 26-Tones:RU Index 36	0.997	0.00
802.11ax HE80 996-Tones:RU Index 67	0.262	5.81
Note: when Duty cycle $\geq$ 0.98, Duty cycle correction Factor not required.		

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Power Index				
Test Mode	Channel/ Frequency (MHz)	SISO antenna 1	SISO antenna 2	MIMO
802.11ax HE20 26-Tones	36/5180	13	13	10
	40/5200	13	13	10
	48/5240	13	13	10
802.11ax HE20 52-Tones	36/5180	13	13	10
	40/5200	13	13	10
	48/5240	13	13	10
802.11ax HE20 106-Tones	36/5180	13	13	10
	40/5200	13	13	10
	48/5240	13	13	10
802.11ax HE20 242-Tones	36/5180	13	13	10
	40/5200	13	13	10
	48/5240	13	13	10
802.11ax HE40 26-Tones	38/5190	13	13	11
	46/5230	13	13	11
802.11ax HE40 484-Tones	38/5190	13	13	11
	46/5230	13	13	11
802.11ax HE80 26-Tones	42/5210	13	13	11
	42/5210	13	13	11
802.11ax HE80 996-Tones	42/5210	15	15	11

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Power Index				
Test Mode	Channel/ Frequency (MHz)	SISO antenna 1	SISO antenna 2	MIMO
802.11ax HE20 26-Tones	52/5260	13	13	10
	60/5300	13	13	10
	64/5320	13	13	10
802.11ax HE20 52-Tones	52/5260	13	13	10
	60/5300	13	13	10
	64/5320	13	13	10
802.11ax HE20 106-Tones	52/5260	13	13	10
	60/5300	13	13	10
	64/5320	13	13	10
802.11ax HE20 242-Tones	52/5260	13	13	10
	60/5300	13	13	10
	64/5320	13	13	10
802.11ax HE40 26-Tones	54/5270	13	13	10
	62/5310	13	13	10
802.11ax HE40 484-Tones	54/5270	13	13	10
	62/5310	13	13	10
802.11ax HE80 26-Tones	58/5290	13	13	10
	58/5290	13	13	10
802.11ax HE80 996-Tones	58/5290	16	16	10

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Power Index				
Test Mode	Channel/ Frequency (MHz)	SISO antenna 1	SISO antenna 2	MIMO
802.11ax HE20 26-Tones	100/5500	13	13	10
	120/5600	13	13	10
	140/5700	13	13	10
802.11ax HE20 52-Tones	100/5500	13	13	10
	120/5600	13	13	10
	140/5700	13	13	10
802.11ax HE20 106-Tones	100/5500	13	13	10
	120/5600	13	13	10
	140/5700	13	13	10
802.11ax HE20 242-Tones	100/5500	13	13	10
	120/5600	13	13	10
	140/5700	13	13	10
802.11ax HE40 26-Tones	102/5510	13	13	10
	134/5670	13	13	10
802.11ax HE40 484-Tones	102/5510	13	13	10
	110/5550	13	13	10
	134/5670	13	13	10
802.11ax HE80 26-Tones	122/5610	13	13	10
	122/5610	13	13	10
802.11ax HE80 996-Tones	122/5610	13	13	10

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Power Index				
Test Mode	Channel/ Frequency (MHz)	SISO antenna 1	SISO antenna 2	MIMO
802.11ax HE20 26-Tones	149/5745	17	17	17
	157/5785	17	17	17
	165/5825	17	17	17
802.11ax HE20 52-Tones	149/5745	17	17	17
	157/5785	17	17	17
	165/5825	17	17	17
802.11ax HE20 106-Tones	149/5745	17	17	17
	157/5785	17	17	17
	165/5825	17	17	17
802.11ax HE20 242-Tones	149/5745	17	17	17
	157/5785	17	17	17
	165/5825	17	17	17
802.11ax HE40 26-Tones	151/5755	17	17	17
	159/5795	17	17	17
802.11ax HE40 484-Tones	151/5755	17	17	17
	159/5795	17	17	17
802.11ax HE80 26-Tones	155/5775	17	17	17
	155/5775	17	17	17
802.11ax HE80 996-Tones	155/5775	17	17	17

Test Mode		Channel/ Frequency (MHz)	RU Index	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit(dBm)
U-NII-2A	802.11ax HE20 26-Tones	52/5260	0	19.60	23.92 <24	23.92
		60/5300	4	17.43	23.41 <24	23.41
		64/5320	8	16.92	23.28 <24	23.28
	802.11ax HE20 52-Tones	52/5260	37	19.58	23.92 <24	23.92
		60/5300	39	19.04	23.80 <24	23.80
		64/5320	40	19.93	24.00 >24	24.00
	802.11ax HE20 106-Tones	52/5260	53	20.81	24.18 >24	24.00
		60/5300	53	20.39	24.09 >24	24.00
		64/5320	54	21.30	24.28 >24	24.00
	802.11ax HE20 242-Tones	52/5260	61	23.60	24.73 >24	24.00
		60/5300	61	24.17	24.83 >24	24.00
		64/5320	61	22.63	24.55 >24	24.00
	802.11ax HE40 26-Tones	54/5270	0	34.26	26.35 >24	24.00
		62/5310	17	39.60	26.98 >24	24.00
	802.11ax HE40 484-Tones	54/5270	65	43.04	27.34 >24	24.00
		62/5310	65	43.15	27.35 >24	24.00
	802.11ax HE80 26-Tones	58/5290	0	54.55	28.37 >24	24.00
		42/5210	36	81.09	30.09 >24	24.00
	802.11ax HE80 996-Tones	58/5290	67	87.15	30.40 >24	24.00

Test Mode		Channel/ Frequency (MHz)	RU Index	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2C	802.11ax HE20 26-Tones	100/5500	0	17.26	23.37 <24	23.37
		120/5600	4	18.51	23.67 <24	23.67
		140/5700	8	19.22	23.84 <24	23.84
	802.11ax HE20 52-Tones	100/5500	37	20.40	24.10 >24	24.00
		120/5600	39	16.03	23.05 <24	23.05
		140/5700	40	19.58	23.92 <24	23.92
	802.11ax HE20 106-Tones	100/5500	53	20.99	24.22 >24	24.00
		120/5600	53	21.58	24.34 >24	24.00
		140/5700	54	20.00	24.01 >24	24.00
	802.11ax HE20 242-Tones	100/5500	61	23.02	24.62 >24	24.00
		120/5600	61	22.60	24.54 >24	24.00
		140/5700	61	22.42	24.51 >24	24.00
	802.11ax HE40 26-Tones	102/5510	0	36.55	26.63 >24	24.00
		134/5670	17	34.79	26.41 >24	24.00
	802.11ax HE40 484-Tones	102/5510	65	44.35	27.47 >24	24.00
		118/5590	65	43.15	27.35 >24	24.00
		134/5670	65	43.14	27.35 >24	24.00
	802.11ax HE80 26-Tones	122/5610	0	78.90	29.97 >24	24.00
		122/5610	36	70.42	29.48 >24	24.00
	802.11ax HE80 996-Tones	122/5610	67	86.98	30.39 >24	24.00
Note: 250mW=24dBm						

SISO Antenna 1
U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	36/5180	0	12.14	12.14	24.00	PASS
	40/5200	4	11.96	11.96	24.00	PASS
	48/5240	8	12.40	12.40	24.00	PASS
802.11ax HE20 52-Tones	36/5180	37	12.07	12.07	24.00	PASS
	40/5200	39	12.02	12.02	24.00	PASS
	48/5240	40	12.41	12.41	24.00	PASS
802.11ax HE20 106-Tones	36/5180	53	12.58	12.58	24.00	PASS
	40/5200	53	12.79	12.79	24.00	PASS
	48/5240	54	12.85	12.85	24.00	PASS
802.11ax HE20 242-Tones	36/5180	61	12.74	12.74	24.00	PASS
	40/5200	61	12.91	12.91	24.00	PASS
	48/5240	61	13.06	13.06	24.00	PASS
802.11ax HE40 26-Tones	38/5190	0	12.27	12.27	24.00	PASS
	46/5230	17	13.10	13.10	24.00	PASS
802.11ax HE40 484-Tones	38/5190	65	12.84	12.84	24.00	PASS
	46/5230	65	12.43	12.43	24.00	PASS
802.11ax HE80 26-Tones	42/5210	0	12.49	12.49	24.00	PASS
	42/5210	36	12.24	12.24	24.00	PASS
802.11ax HE80 996-Tones	42/5210	67	8.50	14.31	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	52/5260	0	12.69	12.69	23.92	PASS
	60/5300	4	11.87	11.87	23.41	PASS
	64/5320	8	11.62	11.62	23.28	PASS
802.11ax HE20 52-Tones	52/5260	37	12.66	12.66	23.92	PASS
	60/5300	39	12.02	12.02	23.80	PASS
	64/5320	40	11.54	11.54	24.00	PASS
802.11ax HE20 106-Tones	52/5260	53	13.15	13.15	24.00	PASS
	60/5300	53	12.72	12.72	24.00	PASS
	64/5320	54	12.08	12.08	24.00	PASS
802.11ax HE20 242-Tones	52/5260	61	13.25	13.25	24.00	PASS
	60/5300	61	12.84	12.84	24.00	PASS
	64/5320	61	12.30	12.30	24.00	PASS
802.11ax HE40 26-Tones	54/5270	0	13.01	13.01	24.00	PASS
	62/5310	17	12.02	12.02	24.00	PASS
802.11ax HE40 484-Tones	54/5270	65	13.38	13.38	24.00	PASS
	62/5310	65	12.77	12.77	24.00	PASS
802.11ax HE80 26-Tones	58/5290	0	12.96	12.96	24.00	PASS
	58/5290	36	12.34	12.34	24.00	PASS
802.11ax HE80 996-Tones	58/5290	67	9.91	15.72	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	100/5500	0	12.57	12.57	23.37	PASS
	120/5600	4	12.02	12.02	23.67	PASS
	140/5700	8	12.86	12.86	23.84	PASS
802.11ax HE20 52-Tones	100/5500	37	12.47	12.47	24.00	PASS
	120/5600	39	12.12	12.12	23.05	PASS
	140/5700	40	12.80	12.80	23.92	PASS
802.11ax HE20 106-Tones	100/5500	53	13.05	13.05	24.00	PASS
	120/5600	53	13.10	13.10	24.00	PASS
	140/5700	54	13.50	13.50	24.00	PASS
802.11ax HE20 242-Tones	100/5500	61	13.08	13.08	24.00	PASS
	120/5600	61	13.18	13.18	24.00	PASS
	140/5700	61	13.68	13.68	24.00	PASS
802.11ax HE40 26-Tones	102/5510	0	12.74	12.74	24.00	PASS
	134/5670	17	12.88	12.88	24.00	PASS
802.11ax HE40 484-Tones	102/5510	65	12.95	12.95	24.00	PASS
	110/5550	65	13.19	13.19	24.00	PASS
	134/5670	65	13.72	13.72	24.00	PASS
802.11ax HE80 26-Tones	122/5610	0	12.63	12.63	24.00	PASS
	122/5610	36	12.00	12.00	24.00	PASS
802.11ax HE80 996-Tones	122/5610	67	7.64	13.45	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	149/5745	0	16.14	16.14	30.00	PASS
	157/5785	4	15.71	15.71	30.00	PASS
	165/5825	8	15.90	15.90	30.00	PASS
802.11ax HE20 52-Tones	149/5745	37	16.14	16.14	30.00	PASS
	157/5785	39	15.87	15.87	30.00	PASS
	165/5825	40	15.89	15.89	30.00	PASS
802.11ax HE20 106-Tones	149/5745	53	16.08	16.08	30.00	PASS
	157/5785	53	15.97	15.97	30.00	PASS
	165/5825	54	15.84	15.84	30.00	PASS
802.11ax HE20 242-Tones	149/5745	61	16.23	16.23	30.00	PASS
	157/5785	61	16.17	16.17	30.00	PASS
	165/5825	61	15.97	15.97	30.00	PASS
802.11ax HE40 26-Tones	151/5755	0	16.20	16.20	30.00	PASS
	159/5795	17	16.14	16.14	30.00	PASS
802.11ax HE40 484-Tones	151/5755	65	16.15	16.15	30.00	PASS
	159/5795	65	16.14	16.14	30.00	PASS
802.11ax HE80 26-Tones	155/5775	0	16.01	16.01	30.00	PASS
	155/5775	36	16.04	16.04	30.00	PASS
802.11ax HE80 996-Tones	155/5775	67	9.76	15.57	30.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

SISO Antenna 2
U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	36/5180	0	11.64	11.64	24.00	PASS
	40/5200	4	11.36	11.36	24.00	PASS
	48/5240	8	11.91	11.91	24.00	PASS
802.11ax HE20 52-Tones	36/5180	37	11.66	11.66	24.00	PASS
	40/5200	38	11.53	11.53	24.00	PASS
	48/5240	40	11.91	11.91	24.00	PASS
802.11ax HE20 106-Tones	36/5180	53	12.14	12.14	24.00	PASS
	40/5200	53	12.26	12.26	24.00	PASS
	48/5240	54	12.44	12.44	24.00	PASS
802.11ax HE20 242-Tones	36/5180	61	12.25	12.25	24.00	PASS
	40/5200	61	12.37	12.37	24.00	PASS
	48/5240	61	12.61	12.61	24.00	PASS
802.11ax HE40 26-Tones	38/5190	0	11.89	11.89	24.00	PASS
	46/5230	17	11.78	11.78	24.00	PASS
802.11ax HE40 484-Tones	38/5190	65	12.34	12.34	24.00	PASS
	46/5230	65	12.49	12.49	24.00	PASS
802.11ax HE80 26-Tones	42/5210	0	12.05	12.05	24.00	PASS
	42/5210	36	11.51	11.51	24.00	PASS
802.11ax HE80 996-Tones	42/5210	67	9.22	15.03	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	52/5260	0	11.64	11.64	23.92	PASS
	60/5300	4	11.36	11.36	23.41	PASS
	64/5320	8	11.91	11.91	23.28	PASS
802.11ax HE20 52-Tones	52/5260	37	11.66	11.66	23.92	PASS
	60/5300	38	11.53	11.53	23.80	PASS
	64/5320	40	11.91	11.91	24.00	PASS
802.11ax HE20 106-Tones	52/5260	53	12.14	12.14	24.00	PASS
	60/5300	53	12.26	12.26	24.00	PASS
	64/5320	54	12.44	12.44	24.00	PASS
802.11ax HE20 242-Tones	52/5260	61	12.25	12.25	24.00	PASS
	60/5300	61	12.37	12.37	24.00	PASS
	64/5320	61	12.61	12.61	24.00	PASS
802.11ax HE40 26-Tones	54/5270	0	11.89	11.89	24.00	PASS
	62/5310	17	11.78	11.78	24.00	PASS
802.11ax HE40 484-Tones	54/5270	65	12.34	12.34	24.00	PASS
	62/5310	65	12.49	12.49	24.00	PASS
802.11ax HE80 26-Tones	58/5290	0	12.05	12.05	24.00	PASS
	58/5290	36	11.51	11.51	24.00	PASS
802.11ax HE80 996-Tones	58/5290	67	9.22	15.03	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	100/5500	0	12.37	12.37	23.37	PASS
	120/5600	4	12.02	12.02	23.67	PASS
	140/5700	8	12.53	12.53	23.84	PASS
802.11ax HE20 52-Tones	100/5500	37	12.28	12.28	24.00	PASS
	120/5600	38	12.20	12.20	23.05	PASS
	140/5700	40	12.43	12.43	23.92	PASS
802.11ax HE20 106-Tones	100/5500	53	12.76	12.76	24.00	PASS
	120/5600	53	12.87	12.87	24.00	PASS
	140/5700	54	12.87	12.87	24.00	PASS
802.11ax HE20 242-Tones	100/5500	61	12.87	12.87	24.00	PASS
	120/5600	61	13.03	13.03	24.00	PASS
	140/5700	61	12.98	12.98	24.00	PASS
802.11ax HE40 26-Tones	102/5510	0	12.64	12.64	24.00	PASS
	134/5670	17	12.56	12.56	24.00	PASS
802.11ax HE40 484-Tones	102/5510	65	13.02	13.02	24.00	PASS
	118/5590	65	12.82	12.82	24.00	PASS
	134/5670	65	12.98	12.98	24.00	PASS
802.11ax HE80 26-Tones	122/5610	0	12.24	12.24	24.00	PASS
	122/5610	36	12.32	12.32	24.00	PASS
802.11ax HE80 996-Tones	122/5610	67	6.56	12.37	24.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor(dBm)	Limit (dBm)	Conclusion
802.11ax HE20 26-Tones	149/5745	0	16.32	16.32	30.00	PASS
	157/5785	4	15.80	15.80	30.00	PASS
	165/5825	8	15.99	15.99	30.00	PASS
802.11ax HE20 52-Tones	149/5745	37	16.27	16.27	30.00	PASS
	157/5785	38	16.00	16.00	30.00	PASS
	165/5825	40	15.92	15.92	30.00	PASS
802.11ax HE20 106-Tones	149/5745	53	16.22	16.22	30.00	PASS
	157/5785	53	16.14	16.14	30.00	PASS
	165/5825	54	15.90	15.90	30.00	PASS
802.11ax HE20 242-Tones	149/5745	61	16.31	16.31	30.00	PASS
	157/5785	61	16.27	16.27	30.00	PASS
	165/5825	61	16.04	16.04	30.00	PASS
802.11ax HE40 26-Tones	151/5755	0	16.36	16.36	30.00	PASS
	159/5795	17	16.22	16.22	30.00	PASS
802.11ax HE40 484-Tones	151/5755	65	16.34	16.34	30.00	PASS
	159/5795	65	16.26	16.26	30.00	PASS
802.11ax HE80 26-Tones	155/5775	0	16.45	16.45	30.00	PASS
	155/5775	36	16.19	16.19	30.00	PASS
802.11ax HE80 996-Tones	155/5775	67	10.34	16.15	30.00	PASS
Note: Average Power with duty factor=Average Power Measured +Duty cycle correction factor						

MIMO

U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11ax HE20 26-Tones	36/5180	0	8.69	8.69	9.46	9.46	12.10	24.00	PASS
	40/5200	4	8.77	8.77	8.95	8.95	11.87	24.00	PASS
	48/5240	8	9.24	9.24	8.93	8.93	12.10	24.00	PASS
802.11ax HE20 52-Tones	36/5180	37	8.67	8.67	9.39	9.39	12.06	24.00	PASS
	40/5200	38	8.90	8.90	9.12	9.12	12.02	24.00	PASS
	48/5240	40	9.24	9.24	8.90	8.90	12.08	24.00	PASS
802.11ax HE20 106-Tones	36/5180	53	8.98	8.98	9.85	9.85	12.45	24.00	PASS
	40/5200	53	9.33	9.33	9.84	9.84	12.60	24.00	PASS
	48/5240	54	9.62	9.62	9.39	9.39	12.52	24.00	PASS
802.11ax HE20 242-Tones	36/5180	61	9.30	9.30	10.04	10.04	12.70	24.00	PASS
	40/5200	61	9.54	9.54	9.95	9.95	12.76	24.00	PASS
	48/5240	0	9.82	9.82	9.58	9.58	12.71	24.00	PASS
802.11ax HE40 26-Tones	38/5190	17	9.68	9.68	10.02	10.02	12.86	24.00	PASS
	46/5230	65	10.42	10.42	9.76	9.76	13.12	24.00	PASS
802.11ax HE40 484-Tones	38/5190	65	10.25	10.25	10.47	10.47	13.37	24.00	PASS
	46/5230	0	10.87	10.87	10.44	10.44	13.67	24.00	PASS
802.11ax HE80 26-Tones	42/5210	36	9.67	9.67	9.94	9.94	12.82	24.00	PASS
	42/5210	67	9.92	9.92	9.58	9.58	12.76	24.00	PASS
802.11ax HE80 996-Tones	42/5210	0	4.94	10.75	4.29	10.10	13.45	24.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2.According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii):If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.41 + 0 = 2.41 \text{ dB} < 6 \text{ dB}$. So the power limit is 24 dBm.

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11ax HE20 26-Tones	52/5260	0	9.21	9.21	8.56	8.56	11.91	23.92	PASS
	60/5300	4	8.24	8.24	8.35	8.35	11.30	23.41	PASS
	64/5320	8	8.64	8.64	9.05	9.05	11.86	23.28	PASS
802.11ax HE20 52-Tones	52/5260	37	9.24	9.24	8.50	8.50	11.90	23.92	PASS
	60/5300	38	8.44	8.44	8.58	8.58	11.52	23.80	PASS
	64/5320	40	8.56	8.56	9.02	9.02	11.80	24.00	PASS
802.11ax HE20 106-Tones	52/5260	53	9.56	9.56	8.97	8.97	12.29	24.00	PASS
	60/5300	53	8.96	8.96	9.15	9.15	12.06	24.00	PASS
	64/5320	54	8.69	8.69	9.48	9.48	12.11	24.00	PASS
802.11ax HE20 242-Tones	52/5260	61	9.56	9.56	8.98	8.98	12.29	24.00	PASS
	60/5300	61	9.10	9.10	9.29	9.29	12.21	24.00	PASS
	64/5320	61	8.81	8.81	9.67	9.67	12.27	24.00	PASS
802.11ax HE40 26-Tones	54/5270	0	9.46	9.46	8.80	8.80	12.15	24.00	PASS
	62/5310	17	9.07	9.07	9.17	9.17	12.13	24.00	PASS
802.11ax HE40 484-Tones	54/5270	65	9.75	9.75	9.26	9.26	12.53	24.00	PASS
	62/5310	65	9.16	9.16	9.69	9.69	12.44	24.00	PASS
802.11ax HE80 26-Tones	58/5290	0	9.30	9.30	9.32	9.32	12.32	24.00	PASS
	58/5290	36	9.28	9.28	8.68	8.68	12.00	24.00	PASS
802.11ax HE80 996-Tones	58/5290	67	3.75	9.56	3.62	9.43	12.50	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.17 + 0 = 5.18 \text{ dB} < 6 \text{ dB}$. So the power limit is 24 dBm.

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor(dBm)	Average Power Measured (dBm)	Average Power with duty factor(dBm)			
802.11ax HE20 26-Tones	100/5500	0	9.63	9.63	9.21	9.21	12.44	23.37	PASS
	120/5600	4	9.11	9.11	9.05	9.05	12.09	23.67	PASS
	140/5700	8	10.21	10.21	8.89	8.89	12.61	23.84	PASS
802.11ax HE20 52-Tones	100/5500	37	9.56	9.56	9.20	9.20	12.39	24.00	PASS
	120/5600	38	9.21	9.21	9.23	9.23	12.23	23.05	PASS
	140/5700	40	10.17	10.17	8.84	8.84	12.56	23.92	PASS
802.11ax HE20 106-Tones	100/5500	53	9.95	9.95	9.57	9.57	12.77	24.00	PASS
	120/5600	53	10.18	10.18	9.88	9.88	13.04	24.00	PASS
	140/5700	54	10.93	10.93	9.45	9.45	13.26	24.00	PASS
802.11ax HE20 242-Tones	100/5500	61	10.09	10.09	9.70	9.70	12.91	24.00	PASS
	120/5600	61	10.25	10.25	10.06	10.06	13.16	24.00	PASS
	140/5700	61	11.14	11.14	9.59	9.59	13.44	24.00	PASS
802.11ax HE40 26-Tones	102/5510	0	9.62	9.62	9.31	9.31	12.48	24.00	PASS
	134/5670	17	10.16	10.16	8.93	8.93	12.60	24.00	PASS
802.11ax HE40 484-Tones	102/5510	65	9.98	9.98	9.78	9.78	12.89	24.00	PASS
	118/5590	65	10.34	10.34	10.02	10.02	13.19	24.00	PASS
	134/5670	65	10.87	10.87	9.63	9.63	13.30	24.00	PASS
802.11ax HE80 26-Tones	122/5610	0	9.53	9.53	9.23	9.23	12.39	24.00	PASS
	122/5610	36	9.28	9.28	9.21	9.21	12.26	24.00	PASS
802.11ax HE80 996-Tones	122/5610	67	4.41	10.22	4.29	10.10	13.17	24.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2.According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii):If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5\log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.94 + 0 = 2.94 \text{ dB} < 6 \text{ dB}$. So the power limit is 24dBm.

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	MIMO ANT1		MIMO ANT2		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 26-Tones	149/5745	0	16.61	16.61	16.09	16.09	19.36	30.00	PASS
	157/5785	4	15.79	15.79	15.75	15.75	18.78	30.00	PASS
	165/5825	8	15.94	15.94	15.92	15.92	18.94	30.00	PASS
802.11ax HE20 52-Tones	149/5745	37	16.50	16.50	15.99	15.99	19.26	30.00	PASS
	157/5785	38	15.90	15.90	15.86	15.86	18.89	30.00	PASS
	165/5825	40	15.94	15.94	15.88	15.88	18.92	30.00	PASS
802.11ax HE20 106-Tones	149/5745	53	16.43	16.43	15.99	15.99	19.22	30.00	PASS
	157/5785	53	16.08	16.08	16.01	16.01	19.05	30.00	PASS
	165/5825	54	15.88	15.88	15.83	15.83	18.86	30.00	PASS
802.11ax HE20 242-Tones	149/5745	61	16.47	16.47	16.09	16.09	19.30	30.00	PASS
	157/5785	61	16.19	16.19	16.15	16.15	19.18	30.00	PASS
	165/5825	61	15.96	15.96	15.93	15.93	18.96	30.00	PASS
802.11ax HE40 26-Tones	151/5755	0	16.54	16.54	16.13	16.13	19.35	30.00	PASS
	159/5795	17	15.98	15.98	15.96	15.96	18.98	30.00	PASS
802.11ax HE40 484-Tones	151/5755	65	16.32	16.32	16.09	16.09	19.22	30.00	PASS
	159/5795	65	16.02	16.02	15.97	15.97	19.00	30.00	PASS
802.11ax HE80 26-Tones	155/5775	0	15.98	15.98	16.06	16.06	19.03	30.00	PASS
802.11ax HE80 996-Tones	155/5775	36	15.77	15.77	16.07	16.07	18.93	30.00	PASS

Note: 1.For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power ANT1 in dBm}/10)} + 10^{(\text{Power ANT2 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)(ii):If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain

Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain}$,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.72 + 0 = 2.72\text{dBi} < 6\text{dBi}$. So the power limit is 30dBm.

5.3. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

1. Frequency stability with respect to ambient temperature

- Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
- Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
- Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- Measure the frequency at each of frequencies specified in 5.6.
- Switch OFF the EUT but do not switch OFF the oscillator heater.
- Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize.
- Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15°C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936\text{Hz}$

Test Results

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
3.85	-30	5200.001480	5200.001308	5199.993681	5199.992040
3.85	-20	5200.004948	5200.000346	5199.990071	5199.986429
3.85	-10	5200.001073	5200.000031	5199.989006	5199.978236
3.85	0	5199.998688	5199.993131	5199.985309	5199.979742
3.85	10	5199.988985	5199.984057	5199.975980	5199.973373
3.85	20	5199.982506	5199.974112	5199.970662	5199.971583
3.85	30	5199.976869	5199.970684	5199.967681	5199.964343
3.85	40	5199.974197	5199.961851	5199.963039	5199.957036
3.85	50	5199.965546	5199.959777	5199.962716	5199.956350
3.65	20	5199.963269	5199.958097	5199.953653	5199.950323
4.35	20	5199.955255	5199.956667	5199.953486	5199.941647
Max. ΔMHz		-0.044745	-0.043333	-0.046514	-0.058353
PPM		-8.604808	-8.333269	-8.945000	-11.221731

Voltage (V)	Temperature (°C)	U-NII-2A Test Results			
		5300MHz			
		1min	2min	5min	10min
3.85	-30	5299.996181	5299.990820	5299.990274	5299.985792
3.85	-20	5299.992255	5299.982843	5299.986718	5299.981713
3.85	-10	5299.988696	5299.974827	5299.984323	5299.976179
3.85	0	5299.986741	5299.981150	5299.986457	5299.980110
3.85	10	5299.984064	5299.971550	5299.979891	5299.973196
3.85	20	5299.981566	5299.969820	5299.972401	5299.972295
3.85	30	5299.974473	5299.965758	5299.972321	5299.965847
3.85	40	5299.964506	5299.957158	5299.971368	5299.964654
3.85	50	5299.960620	5299.949640	5299.964488	5299.959310
3.65	20	5299.956621	5299.947623	5299.964340	5299.957621
4.35	20	5299.947439	5299.938167	5299.957568	5299.950841
Max. ΔMHz		-0.052561	-0.061833	-0.042432	-0.049159
PPM		-9.917170	-11.666604	-8.006038	-9.275283

Voltage (V)	Temperature (°C)	U-NII-2C Test Results			
		5580MHz			
		1min	2min	5min	10min
3.85	-30	5580.007667	5579.997837	5579.990342	5579.986948
3.85	-20	5580.005187	5579.990217	5579.981785	5579.982463
3.85	-10	5579.996208	5579.983777	5579.979799	5579.973968
3.85	0	5579.995656	5579.981269	5579.981503	5579.975470
3.85	10	5579.991275	5579.975880	5579.980048	5579.971406
3.85	20	5579.985004	5579.973611	5579.973795	5579.963780
3.85	30	5579.976132	5579.963843	5579.969560	5579.961255
3.85	40	5579.973361	5579.961909	5579.959706	5579.961075
3.85	50	5579.964716	5579.958023	5579.954349	5579.959176
3.65	20	5579.955812	5579.950890	5579.944436	5579.957835
4.35	20	5579.950904	5579.942307	5579.934920	5579.953660
Max. ΔMHz		-0.049096	-0.057693	-0.065080	-0.046340
PPM		-8.798566	-10.339247	-11.663082	-8.304659

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
3.85	-30	5784.996475	5784.993098	5784.991433	5784.990798
3.85	-20	5784.992341	5784.990743	5784.985186	5784.988709
3.85	-10	5784.990472	5784.982026	5784.980822	5784.986891
3.85	0	5784.992249	5784.987526	5784.984206	5784.988250
3.85	10	5784.987526	5784.984415	5784.982064	5784.984184
3.85	20	5784.977966	5784.981073	5784.976933	5784.975975
3.85	30	5784.968730	5784.977002	5784.974673	5784.967461
3.85	40	5784.966695	5784.970217	5784.971019	5784.961254
3.85	50	5784.958094	5784.963093	5784.963592	5784.959049
3.65	20	5784.954828	5784.960120	5784.958477	5784.956062
4.35	20	5784.952990	5784.950773	5784.951978	5784.954201
Max. ΔMHz		-0.047010	-0.049227	-0.048022	-0.045799
PPM		-8.126188	-8.509421	-8.301124	-7.916854

5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

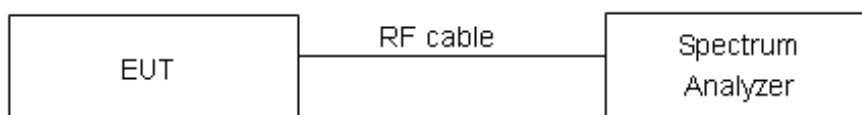
Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 1MHz, VBW = 3MHz for the band 5.150-5.250GHz, 5.250-5.350GHz, 5.470-5.725GHz.
Set RBW = 470kHz, VBW = 1.5MHz for the band 5.725-5.850GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

Rule FCC Part 15.407(a)(1)/ FCC Part 15.407(a)(2) / FCC Part 15.407(a)(3)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Bands/GHz	Limits
5.15-5.25	11dBm/MHz
5.25-5.35 and 5.47-5.725	11dBm/MHz
5.725-5.85	30dBm/500kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

Test Results:
SISO Antenna1
U-NII-1

Test Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm/MHz)	Conclusion
802.11a	36/5180	5.95	5.95	11	PASS
	40/5200	5.91	5.91	11	PASS
	48/5240	6.03	6.03	11	PASS
802.11n HT20	36/5180	5.43	5.43	11	PASS
	40/5200	5.46	5.46	11	PASS
	48/5240	5.80	5.80	11	PASS
802.11n HT40	38/5190	1.55	1.55	11	PASS
	46/5230	2.78	2.78	11	PASS
802.11ac VHT20	36/5180	5.22	5.22	11	PASS
	40/5200	5.47	5.47	11	PASS
	48/5240	5.69	5.69	11	PASS
802.11ac VHT40	38/5190	1.41	1.41	11	PASS
	46/5230	2.88	2.88	11	PASS
802.11ac VHT80	42/5210	-1.67	-1.67	11	PASS
802.11ax HE20	36/5180	5.38	5.38	11	PASS
	40/5200	5.45	5.45	11	PASS
	48/5240	5.74	5.74	11	PASS
802.11ax HE40	38/5190	1.33	1.33	11	PASS
	46/5230	2.62	2.62	11	PASS
802.11ax HE80	42/5210	-2.72	-2.72	11	PASS
Note:1. Power Spectral Density=Read Value + Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm/MHz)	Conclusion
802.11a	52/5260	6.91	6.91	11	PASS
	56/5280	6.42	6.42	11	PASS
	64/5320	5.28	5.28	11	PASS
802.11n HT20	52/5260	5.56	5.56	11	PASS
	56/5280	4.98	4.98	11	PASS
	64/5320	4.10	4.10	11	PASS
802.11n HT40	54/5270	2.73	2.73	11	PASS
	62/5310	1.37	1.37	11	PASS
802.11ac VHT20	52/5260	5.62	5.62	11	PASS
	56/5280	4.94	4.94	11	PASS
	64/5320	4.18	4.18	11	PASS
802.11ac VHT40	54/5270	2.47	2.47	11	PASS
	62/5310	1.57	1.57	11	PASS
802.11ac VHT80	58/5290	-2.35	-2.35	11	PASS
802.11ax HE20	52/5260	5.47	5.47	11	PASS
	56/5280	4.86	4.86	11	PASS
	64/5320	4.16	4.16	11	PASS
802.11ax HE40	54/5270	2.24	2.24	11	PASS
	62/5310	1.26	1.26	11	PASS
802.11ax HE80	58/5290	-2.45	-2.45	11	PASS

Note:1. Power Spectral Density=Read Value + Duty cycle correction factor

U-NII-2C

Test Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	5.83	5.83	11	PASS
	116/5580	5.79	5.79	11	PASS
	140/5700	3.83	3.83	11	PASS
	144/5720	4.92	4.92	11	PASS
802.11n HT20	100/5500	4.57	4.57	11	PASS
	116/5580	4.13	4.13	11	PASS
	140/5700	3.31	3.31	11	PASS
	144/5720	3.23	3.23	11	PASS
802.11n HT40	102/5510	-0.49	-0.49	11	PASS
	110/5550	1.90	1.90	11	PASS
	134/5670	0.17	0.17	11	PASS
	142/5710	0.22	0.22	11	PASS
802.11ac VHT20	100/5500	4.51	4.51	11	PASS
	116/5580	3.99	3.99	11	PASS
	140/5700	3.30	3.30	11	PASS
	144/5720	3.43	3.43	11	PASS
802.11ac VHT40	102/5510	-0.16	-0.16	11	PASS
	110/5550	1.77	1.77	11	PASS
	134/5670	0.16	0.16	11	PASS
	142/5710	0.37	0.37	11	PASS
802.11ac VHT80	106/5530	-3.62	-3.62	11	PASS
	138/5690	-2.85	-2.85	11	PASS
802.11ax HE20	100/5500	4.66	4.66	11	PASS
	116/5580	4.21	4.21	11	PASS
	140/5700	0.42	0.42	11	PASS
	144/5720	3.38	3.38	11	PASS
802.11ax HE40	102/5510	-0.59	-0.59	11	PASS
	110/5550	1.14	1.14	11	PASS
	134/5670	0.05	0.05	11	PASS
	142/5710	0.06	0.06	11	PASS
802.11ax HE80	106/5530	-2.72	-2.72	11	PASS
	138/5690	-3.07	-3.07	11	PASS

Note: Power Spectral Density=Read Value + Duty cycle correction factor

U-NII-3

Test Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	1.02	1.29	30	PASS
	149/5745	1.83	2.10	30	PASS
	157/5785	1.82	2.09	30	PASS
	165/5825	2.34	2.61	30	PASS
802.11n HT20	144/5720	-0.26	0.01	30	PASS
	149/5745	0.23	0.50	30	PASS
	157/5785	0.37	0.64	30	PASS
	165/5825	0.82	1.09	30	PASS
802.11n HT40	142/5710	-3.74	-3.47	30	PASS
	151/5755	-2.71	-2.44	30	PASS
	159/5795	-2.35	-2.08	30	PASS
802.11ac VHT20	144/5720	-0.36	-0.09	30	PASS
	149/5745	0.29	0.56	30	PASS
	157/5785	0.48	0.75	30	PASS
	165/5825	0.81	1.08	30	PASS
802.11ac VHT40	142/5710	-3.89	-3.62	30	PASS
	151/5755	-2.68	-2.41	30	PASS
	159/5795	-2.30	-2.03	30	PASS
802.11ac VHT80	138/5690	-7.36	-7.09	30	PASS
	155/5775	-5.62	-5.35	30	PASS
802.11ax HE20	144/5720	-0.16	0.11	30	PASS
	149/5745	0.32	0.59	30	PASS
	157/5785	0.55	0.82	30	PASS
	165/5825	0.95	1.22	30	PASS
802.11ax HE40	142/5710	-4.10	-3.83	30	PASS
	151/5755	-2.70	-2.43	30	PASS
	159/5795	-2.53	-2.26	30	PASS
802.11ax HE80	138/5690	-7.35	-7.08	30	PASS
	155/5775	-5.36	-5.09	30	PASS

Note: PSD=Read Value + Duty cycle correction factor +10*log(500/470)

SISO Antenna2
U-NII-1

Test Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm/MHz)	Conclusion
802.11a	36/5180	6.77	6.77	11	PASS
	40/5200	6.63	6.63	11	PASS
	48/5240	6.24	6.24	11	PASS
802.11n HT20	36/5180	5.20	5.20	11	PASS
	40/5200	5.18	5.18	11	PASS
	48/5240	5.07	5.07	11	PASS
802.11n HT40	38/5190	1.64	1.64	11	PASS
	46/5230	2.05	2.05	11	PASS
802.11ac VHT20	36/5180	5.23	5.23	11	PASS
	40/5200	5.30	5.30	11	PASS
	48/5240	4.93	4.93	11	PASS
802.11ac VHT40	38/5190	1.40	1.40	11	PASS
	46/5230	2.09	2.09	11	PASS
802.11ac VHT80	42/5210	-2.28	-2.28	11	PASS
802.11ax HE20	36/5180	5.32	5.32	11	PASS
	40/5200	5.42	5.42	11	PASS
	48/5240	4.98	4.98	11	PASS
802.11ax HE40	38/5190	1.21	1.21	11	PASS
	46/5230	1.77	1.77	11	PASS
802.11ax HE80	42/5210	-3.19	-3.19	11	PASS
Note:1. Power Spectral Density=Read Value + Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm/MHz)	Conclusion
802.11a	52/5260	6.20	6.20	11	PASS
	56/5280	5.78	5.78	11	PASS
	64/5320	5.78	5.78	11	PASS
802.11n HT20	52/5260	5.00	5.00	11	PASS
	56/5280	4.57	4.57	11	PASS
	64/5320	4.52	4.52	11	PASS
802.11n HT40	54/5270	1.81	1.81	11	PASS
	62/5310	1.40	1.40	11	PASS
802.11ac VHT20	52/5260	4.77	4.77	11	PASS
	56/5280	4.60	4.60	11	PASS
	64/5320	4.70	4.70	11	PASS
802.11ac VHT40	54/5270	1.56	1.56	11	PASS
	62/5310	1.50	1.50	11	PASS
802.11ac VHT80	58/5290	-3.04	-3.04	11	PASS
802.11ax HE20	52/5260	4.83	4.83	11	PASS
	56/5280	4.44	4.44	11	PASS
	64/5320	4.43	4.43	11	PASS
802.11ax HE40	54/5270	1.55	1.55	11	PASS
	62/5310	1.05	1.05	11	PASS
802.11ax HE80	58/5290	-2.66	-2.66	11	PASS

Note:1. Power Spectral Density=Read Value + Duty cycle correction factor

U-NII-2C

Test Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	6.08	6.08	11	PASS
	116/5580	5.25	5.25	11	PASS
	140/5700	3.56	3.56	11	PASS
	144/5720	4.61	4.61	11	PASS
802.11n HT20	100/5500	4.60	4.60	11	PASS
	116/5580	3.72	3.72	11	PASS
	140/5700	3.01	3.01	11	PASS
	144/5720	3.33	3.33	11	PASS
802.11n HT40	102/5510	-0.16	-0.16	11	PASS
	110/5550	1.24	1.24	11	PASS
	134/5670	-0.05	-0.05	11	PASS
	142/5710	0.20	0.20	11	PASS
802.11ac VHT20	100/5500	4.67	4.67	11	PASS
	116/5580	3.61	3.61	11	PASS
	140/5700	3.10	3.10	11	PASS
	144/5720	3.41	3.41	11	PASS
802.11ac VHT40	102/5510	-0.26	-0.26	11	PASS
	110/5550	1.25	1.25	11	PASS
	134/5670	-0.12	-0.12	11	PASS
	142/5710	0.14	0.14	11	PASS
802.11ac VHT80	106/5530	-3.90	-3.90	11	PASS
	138/5690	-3.31	-3.31	11	PASS
802.11ax HE20	100/5500	4.49	4.49	11	PASS
	116/5580	3.72	3.72	11	PASS
	140/5700	0.37	0.37	11	PASS
	144/5720	3.28	3.28	11	PASS
802.11ax HE40	102/5510	-0.41	-0.41	11	PASS
	110/5550	1.08	1.08	11	PASS
	134/5670	-0.21	-0.21	11	PASS
	142/5710	-0.08	-0.08	11	PASS
802.11ax HE80	106/5530	-2.83	-2.83	11	PASS
	138/5690	-3.39	-3.39	11	PASS

Note: Power Spectral Density=Read Value + Duty cycle correction factor

U-NII-3

Test Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	0.97	1.24	30	PASS
	149/5745	1.63	1.90	30	PASS
	157/5785	1.56	1.83	30	PASS
	165/5825	1.65	1.92	30	PASS
802.11n HT20	144/5720	-0.22	0.05	30	PASS
	149/5745	0.23	0.50	30	PASS
	157/5785	0.16	0.43	30	PASS
	165/5825	0.15	0.42	30	PASS
802.11n HT40	142/5710	-4.14	-3.87	30	PASS
	151/5755	-2.67	-2.40	30	PASS
	159/5795	-2.67	-2.40	30	PASS
802.11ac VHT20	144/5720	-0.67	-0.40	30	PASS
	149/5745	0.24	0.51	30	PASS
	157/5785	0.12	0.39	30	PASS
	165/5825	0.15	0.42	30	PASS
802.11ac VHT40	142/5710	-4.09	-3.82	30	PASS
	151/5755	-2.97	-2.70	30	PASS
	159/5795	-2.80	-2.53	30	PASS
802.11ac VHT80	138/5690	-8.48	-8.21	30	PASS
	155/5775	-5.94	-5.67	30	PASS
802.11ax HE20	144/5720	-0.29	-0.02	30	PASS
	149/5745	0.32	0.59	30	PASS
	157/5785	0.16	0.43	30	PASS
	165/5825	0.26	0.53	30	PASS
802.11ax HE40	142/5710	-4.25	-3.98	30	PASS
	151/5755	-2.96	-2.69	30	PASS
	159/5795	-3.04	-2.77	30	PASS
802.11ax HE80	138/5690	-8.06	-7.79	30	PASS
	155/5775	-5.90	-5.63	30	PASS

Note: PSD=Read Value + Duty cycle correction factor +10*log(500/470)

MIMO

U-NII-1

Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		ANT1		ANT2		Total PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11a	36/5180	6.87	6.87	6.47	6.47	9.68	11	PASS
	40/5200	7.10	7.10	6.41	6.41	9.78	11	PASS
	48/5240	7.42	7.42	5.95	5.95	9.76	11	PASS
802.11n HT20	36/5180	5.67	5.67	5.27	5.27	8.48	11	PASS
	40/5200	6.10	6.10	5.30	5.30	8.73	11	PASS
	48/5240	5.89	5.89	4.64	4.64	8.32	11	PASS
802.11n HT40	38/5190	1.84	1.84	1.19	1.19	4.54	11	PASS
	46/5230	2.99	2.99	1.97	1.97	5.52	11	PASS
802.11ac VHT20	36/5180	5.63	5.63	5.03	5.03	8.35	11	PASS
	40/5200	5.83	5.83	4.91	4.91	8.40	11	PASS
	48/5240	6.31	6.31	4.70	4.70	8.59	11	PASS
802.11ac VHT40	38/5190	2.21	2.21	1.17	1.17	4.73	11	PASS
	46/5230	3.35	3.35	1.67	1.67	5.60	11	PASS
802.11ac VHT80	42/5210	-1.18	-1.18	-2.25	-2.25	1.33	11	PASS
802.11ax HE20	36/5180	5.63	5.63	4.97	4.97	8.32	11	PASS
	40/5200	5.85	5.85	5.05	5.05	8.48	11	PASS
	48/5240	5.95	5.95	4.63	4.63	8.35	11	PASS
802.11ax HE40	38/5190	1.65	1.65	1.18	1.18	4.43	11	PASS
	46/5230	2.74	2.74	1.48	1.48	5.17	11	PASS
802.11ax HE80	42/5210	-2.39	-2.39	-3.35	-3.35	0.17	11	PASS

Note: 1. Power Spectral Density =Read Value + Duty cycle correction factor

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = $G_{\text{ANTMAX}} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})\text{dB}$,

so directional gain= $G_{\text{ANT MAX}} + \text{Array Gain}=2.41+10\log(2/1)=5.42<6\text{ dBi}$. So the PSD limit is 11dBm.

U-NII-2A

Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		ANT1		ANT2		Total PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11a	52/5260	7.14	7.14	5.94	5.94	9.59	11	PASS
	56/5280	6.32	6.32	5.61	5.61	8.99	11	PASS
	64/5320	5.29	5.29	5.35	5.35	8.33	11	PASS
802.11n HT20	52/5260	5.85	5.85	4.63	4.63	8.29	11	PASS
	56/5280	5.20	5.20	4.39	4.39	7.82	11	PASS
	64/5320	3.97	3.97	4.38	4.38	7.19	11	PASS
802.11n HT40	54/5270	2.77	2.77	1.51	1.51	5.20	11	PASS
	62/5310	1.61	1.61	1.40	1.40	4.52	11	PASS
802.11ac VHT20	52/5260	6.05	6.05	4.75	4.75	8.46	11	PASS
	56/5280	5.45	5.45	4.51	4.51	8.02	11	PASS
	64/5320	4.41	4.41	4.47	4.47	7.45	11	PASS
802.11ac VHT40	54/5270	2.83	2.83	1.56	1.56	5.25	11	PASS
	62/5310	1.75	1.75	1.54	1.54	4.66	11	PASS
802.11ac VHT80	58/5290	-2.02	-2.02	-2.93	-2.93	0.56	11	PASS
802.11ax HE20	52/5260	5.95	5.95	4.41	4.41	8.26	11	PASS
	56/5280	5.38	5.38	4.36	4.36	7.91	11	PASS
	64/5320	4.11	4.11	4.16	4.16	7.15	11	PASS
802.11ax HE40	54/5270	2.45	2.45	1.40	1.40	4.97	11	PASS
	62/5310	1.52	1.52	0.94	0.94	4.25	11	PASS
802.11ax HE80	58/5290	-1.91	-1.91	-3.07	-3.07	0.56	11	PASS

Note: 1. Power Spectral Density =Read Value + Duty cycle correction factor

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),
the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = $G_{\text{ANTMAX}} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})\text{dB}$,
so directional gain= $G_{\text{ANT MAX}} + \text{Array Gain}=2.41+10\log(2/1)=5.42<6\text{ dBi}$. So the PSD limit is 11dBm.

U-NII-2C

Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		ANT1		ANT2		Total PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11a	100/5500	5.79	5.79	6.03	6.03	8.92	11	PASS
	116/5580	5.34	5.34	5.03	5.03	8.20	11	PASS
	140/5700	3.50	3.50	3.42	3.42	6.47	11	PASS
	144/5720	4.64	4.64	4.43	4.43	7.55	11	PASS
802.11n HT20	100/5500	4.37	4.37	4.52	4.52	7.46	11	PASS
	116/5580	4.11	4.11	3.60	3.60	6.87	11	PASS
	140/5700	3.44	3.44	2.97	2.97	6.22	11	PASS
	144/5720	3.38	3.38	3.08	3.08	6.24	11	PASS
802.11n HT40	102/5510	-0.32	-0.32	-0.26	-0.26	2.72	11	PASS
	110/5550	1.53	1.53	0.89	0.89	4.23	11	PASS
	134/5670	0.25	0.25	-0.14	-0.14	3.07	11	PASS
	142/5710	0.78	0.78	0.35	0.35	3.58	11	PASS
802.11ac VHT20	100/5500	4.56	4.56	4.43	4.43	7.51	11	PASS
	116/5580	4.16	4.16	3.61	3.61	6.90	11	PASS
	140/5700	3.34	3.34	3.23	3.23	6.30	11	PASS
	144/5720	3.75	3.75	3.42	3.42	6.60	11	PASS
802.11ac VHT40	102/5510	-0.50	-0.50	-0.24	-0.24	2.64	11	PASS
	110/5550	1.49	1.49	0.94	0.94	4.23	11	PASS
	134/5670	0.27	0.27	-0.07	-0.07	3.11	11	PASS
	142/5710	0.52	0.52	0.23	0.23	3.39	11	PASS
802.11ac VHT80	106/5530	-3.73	-3.73	-3.78	-3.78	-0.74	11	PASS
	138/5690	-2.87	-2.87	-3.41	-3.41	-0.12	11	PASS
802.11ax HE20	100/5500	4.39	4.39	4.41	4.41	7.41	11	PASS
	116/5580	4.15	4.15	3.82	3.82	7.00	11	PASS
	140/5700	0.37	0.37	0.19	0.19	3.29	11	PASS
	144/5720	3.47	3.47	3.15	3.15	6.32	11	PASS
802.11ax HE40	102/5510	-0.65	-0.65	-0.34	-0.34	2.52	11	PASS
	110/5550	1.44	1.44	0.77	0.77	4.13	11	PASS
	134/5670	0.25	0.25	-0.47	-0.47	2.92	11	PASS
	142/5710	0.43	0.43	-0.06	-0.06	3.20	11	PASS

802.11ax HE80	106/5530	-2.68	-2.68	-2.91	-2.91	0.22	11	PASS
	138/5690	-2.97	-2.97	-3.46	-3.46	-0.20	11	PASS

Note: 1. Power Spectral Density =Read Value + Duty cycle correction factor

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = G_{ANTMAX} + Array Gain, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})$ dB,

so directional gain= $G_{\text{ANT MAX}}$ + Array Gain= $2.17+10\log(2/1)=5.18<6$ dBi. So the PSD limit is 11dBm.

U-NII-3

Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm/ 500kHz)	Conclusion
		ANT1		ANT2		Total PSD (dBm/ 500kHz)		
		Read Value (dBm/ 470kHz)	PSD (dBm/ 500kHz)	Read Value (dBm/ 470kHz)	PSD (dBm/ 500kHz)			
802.11a	144/5720	1.47	1.74	0.94	1.21	4.49	30	PASS
	149/5745	1.74	2.01	1.64	1.91	4.97	30	PASS
	157/5785	1.97	2.24	1.26	1.53	4.91	30	PASS
	165/5825	2.16	2.43	1.38	1.65	5.07	30	PASS
802.11n HT20	144/5720	-0.70	-0.43	-0.53	-0.26	2.67	30	PASS
	149/5745	0.59	0.86	0.24	0.51	3.70	30	PASS
	157/5785	1.02	1.29	0.25	0.52	3.93	30	PASS
	165/5825	1.28	1.55	0.13	0.40	4.02	30	PASS
802.11n HT40	142/5710	-3.84	-3.57	-4.24	-3.97	-0.76	30	PASS
	151/5755	-2.29	-2.02	-2.95	-2.68	0.67	30	PASS
	159/5795	-1.98	-1.71	-3.01	-2.74	0.82	30	PASS
802.11ac VHT20	144/5720	-0.48	-0.21	-0.62	-0.35	2.73	30	PASS
	149/5745	0.43	0.70	0.39	0.66	3.69	30	PASS
	157/5785	0.92	1.19	0.08	0.35	3.80	30	PASS
	165/5825	1.15	1.42	-0.10	0.17	3.85	30	PASS
802.11ac VHT40	142/5710	-3.83	-3.56	-4.33	-4.06	-0.79	30	PASS
	151/5755	-2.50	-2.23	-2.89	-2.62	0.59	30	PASS
	159/5795	-2.14	-1.87	-2.80	-2.53	0.82	30	PASS
802.11ac VHT80	138/5690	-7.69	-7.42	-8.10	-7.83	-4.61	30	PASS
	155/5775	-5.20	-4.93	-6.16	-5.89	-2.37	30	PASS
802.11ax HE20	144/5720	-0.25	0.02	-0.33	-0.06	2.99	30	PASS
	149/5745	0.55	0.82	0.23	0.50	3.67	30	PASS
	157/5785	0.78	1.05	0.08	0.35	3.72	30	PASS
	165/5825	1.26	1.53	0.05	0.32	3.98	30	PASS
802.11ax HE40	142/5710	-4.29	-4.02	-4.57	-4.30	-1.15	30	PASS
	151/5755	-2.20	-1.93	-3.06	-2.79	0.67	30	PASS
	159/5795	-2.02	-1.75	-3.11	-2.84	0.75	30	PASS
802.11ax HE80	138/5690	-7.52	-7.25	-8.38	-8.11	-4.65	30	PASS
	155/5775	-5.33	-5.06	-5.93	-5.66	-2.34	30	PASS

Note:1. Power Spectral Density =Read Value + Duty cycle correction factor +10*log(500/470).

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = G_{ANTMAX} + Array Gain, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})$ dB,

so directional gain= $G_{\text{ANT MAX}}$ + Array Gain= $2.94+10\log(2/1)=5.95<6$ dBi. So the PSD limit is 30dBm.

TB Mode
SISO Antenna1
U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	36/5180	0	10.02	10.02	11	PASS
	40/5200	4	8.78	8.78	11	PASS
	48/5240	8	10.35	10.35	11	PASS
802.11ax HE20 52-Tones	36/5180	37	7.20	7.20	11	PASS
	40/5200	39	7.37	7.37	11	PASS
	48/5240	40	7.64	7.64	11	PASS
802.11ax HE20 106-Tones	36/5180	53	5.10	5.10	11	PASS
	40/5200	53	5.06	5.06	11	PASS
	48/5240	54	5.31	5.31	11	PASS
802.11ax HE20 242-Tones	36/5180	61	1.63	1.63	11	PASS
	40/5200	61	1.92	1.92	11	PASS
	48/5240	61	1.99	1.99	11	PASS
802.11ax HE40 26-Tones	38/5190	0	10.06	10.06	11	PASS
	46/5230	17	-1.04	-1.04	11	PASS
802.11ax HE40 484-Tones	38/5190	65	-1.56	-1.56	11	PASS
	46/5230	65	-1.39	-1.39	11	PASS
802.11ax HE80 26-Tones	42/5210	0	10.07	10.07	11	PASS
	42/5210	36	9.90	9.90	11	PASS
802.11ax HE80 996-Tones	42/5210	67	-7.13	-1.32	11	PASS
Note: Power Spectral Density=Read Value + Duty cycle correction factor						

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	52/5260	0	10.86	10.86	11	PASS
	60/5300	4	8.69	8.69	11	PASS
	64/5320	8	9.58	9.58	11	PASS
802.11ax HE20 52-Tones	52/5260	37	7.95	7.95	11	PASS
	60/5300	39	7.09	7.09	11	PASS
	64/5320	40	6.88	6.88	11	PASS
802.11ax HE20 106-Tones	52/5260	53	5.73	5.73	11	PASS
	60/5300	53	5.43	5.43	11	PASS
	64/5320	54	4.53	4.53	11	PASS
802.11ax HE20 242-Tones	52/5260	61	2.25	2.25	11	PASS
	60/5300	61	2.07	2.07	11	PASS
	64/5320	61	1.28	1.28	11	PASS
802.11ax HE40 26-Tones	54/5270	0	10.78	10.78	11	PASS
	62/5310	17	9.93	9.93	11	PASS
802.11ax HE40 484-Tones	54/5270	65	-0.67	-0.67	11	PASS
	62/5310	65	-1.21	-1.21	11	PASS
802.11ax HE80 26-Tones	58/5290	0	10.59	10.59	11	PASS
	58/5290	36	10.26	10.26	11	PASS
802.11ax HE80 996-Tones	58/5290	67	-6.39	-0.58	11	PASS
Note: Power Spectral Density=Read Value + Duty cycle correction factor						

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	100/5500	0	10.65	10.65	11	PASS
	120/5600	4	9.22	9.22	11	PASS
	140/5700	8	10.95	10.95	11	PASS
802.11ax HE20 52-Tones	100/5500	37	7.62	7.62	11	PASS
	120/5600	39	7.60	7.60	11	PASS
	140/5700	40	8.13	8.13	11	PASS
802.11ax HE20 106-Tones	100/5500	53	5.80	5.80	11	PASS
	120/5600	53	5.63	5.63	11	PASS
	140/5700	54	5.86	5.86	11	PASS
802.11ax HE20 242-Tones	100/5500	61	2.35	2.35	11	PASS
	120/5600	61	2.28	2.28	11	PASS
	140/5700	61	2.71	2.71	11	PASS
802.11ax HE40 26-Tones	102/5510	0	10.79	10.79	11	PASS
	134/5670	17	10.88	10.88	11	PASS
802.11ax HE40 484-Tones	102/5510	65	-0.90	-0.90	11	PASS
	118/5590	65	-0.92	-0.92	11	PASS
	134/5670	65	-0.46	-0.46	11	PASS
802.11ax HE80 26-Tones	122/5610	0	10.28	10.28	11	PASS
	122/5610	36	10.32	10.32	11	PASS
802.11ax HE80 996-Tones	122/5610	67	-8.98	-3.17	11	PASS
Note: Power Spectral Density=Read Value + Duty cycle correction factor						

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11ax HE20 26-Tones	149/5745	0	10.89	11.16	30	PASS
	157/5785	4	10.05	10.32	30	PASS
	165/5825	8	11.02	11.29	30	PASS
802.11ax HE20 52-Tones	149/5745	37	8.13	8.40	30	PASS
	157/5785	39	7.66	7.93	30	PASS
	165/5825	40	7.95	8.22	30	PASS
802.11ax HE20 106-Tones	149/5745	53	5.10	5.37	30	PASS
	157/5785	53	4.79	5.06	30	PASS
	165/5825	54	4.90	5.17	30	PASS
802.11ax HE20 242-Tones	149/5745	61	1.79	2.06	30	PASS
	157/5785	61	1.75	2.02	30	PASS
	165/5825	61	1.58	1.85	30	PASS
802.11ax HE40 26-Tones	151/5755	0	10.77	11.04	30	PASS
	159/5795	17	10.82	11.09	30	PASS
802.11ax HE40 484-Tones	151/5755	65	-1.37	-1.10	30	PASS
	159/5795	65	-1.18	-0.91	30	PASS
802.11ax HE80 26-Tones	155/5775	0	10.68	10.95	30	PASS
	155/5775	36	10.39	10.66	30	PASS
802.11ax HE80 996-Tones	155/5775	67	-9.73	-3.65	30	PASS
Note: PSD=Read Value + Duty cycle correction factor +10*log(500/470)						

SISO Antenna 2
U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	36/5180	0	9.52	9.52	11	PASS
	40/5200	4	8.34	8.34	11	PASS
	48/5240	8	9.68	9.68	11	PASS
802.11ax HE20 52-Tones	36/5180	37	7.07	7.07	11	PASS
	40/5200	39	6.84	6.84	11	PASS
	48/5240	40	7.14	7.14	11	PASS
802.11ax HE20 106-Tones	36/5180	53	4.43	4.43	11	PASS
	40/5200	53	4.58	4.58	11	PASS
	48/5240	54	4.85	4.85	11	PASS
802.11ax HE20 242-Tones	36/5180	61	1.17	1.17	11	PASS
	40/5200	61	1.21	1.21	11	PASS
	48/5240	61	1.62	1.62	11	PASS
802.11ax HE40 26-Tones	38/5190	0	10.15	10.15	11	PASS
	46/5230	17	9.65	9.65	11	PASS
802.11ax HE40 484-Tones	38/5190	65	-1.67	-1.67	11	PASS
	46/5230	65	-1.35	-1.35	11	PASS
802.11ax HE80 26-Tones	42/5210	0	9.78	9.78	11	PASS
	42/5210	36	9.04	9.04	11	PASS
802.11ax HE80 996-Tones	42/5210	67	-6.71	-0.90	11	PASS
Note: Power Spectral Density=Read Value + Duty cycle correction factor						

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	52/5260	0	9.52	9.52	11	PASS
	60/5300	4	8.34	8.34	11	PASS
	64/5320	8	9.68	9.68	11	PASS
802.11ax HE20 52-Tones	52/5260	37	7.07	7.07	11	PASS
	60/5300	39	6.84	6.84	11	PASS
	64/5320	40	7.14	7.14	11	PASS
802.11ax HE20 106-Tones	52/5260	53	4.43	4.43	11	PASS
	60/5300	53	4.58	4.58	11	PASS
	64/5320	54	4.85	4.85	11	PASS
802.11ax HE20 242-Tones	52/5260	61	1.17	1.17	11	PASS
	60/5300	61	1.21	1.21	11	PASS
	64/5320	61	1.62	1.62	11	PASS
802.11ax HE40 26-Tones	54/5270	0	10.15	10.15	11	PASS
	62/5310	17	9.65	9.65	11	PASS
802.11ax HE40 484-Tones	54/5270	65	-1.67	-1.67	11	PASS
	62/5310	65	-1.35	-1.35	11	PASS
802.11ax HE80 26-Tones	58/5290	0	9.78	9.78	11	PASS
	58/5290	36	9.04	9.04	11	PASS
802.11ax HE80 996-Tones	58/5290	67	-6.71	-0.90	11	PASS
Note: Power Spectral Density=Read Value + Duty cycle correction factor						

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	100/5500	0	10.74	10.74	11	PASS
	120/5600	4	8.71	8.71	11	PASS
	140/5700	8	10.47	10.47	11	PASS
802.11ax HE20 52-Tones	100/5500	37	7.84	7.84	11	PASS
	120/5600	39	7.30	7.30	11	PASS
	140/5700	40	7.71	7.71	11	PASS
802.11ax HE20 106-Tones	100/5500	53	5.33	5.33	11	PASS
	120/5600	53	5.28	5.28	11	PASS
	140/5700	54	5.27	5.27	11	PASS
802.11ax HE20 242-Tones	100/5500	61	1.75	1.75	11	PASS
	120/5600	61	1.98	1.98	11	PASS
	140/5700	61	1.79	1.79	11	PASS
802.11ax HE40 26-Tones	102/5510	0	10.41	10.41	11	PASS
	134/5670	17	10.41	10.41	11	PASS
802.11ax HE40 484-Tones	102/5510	65	-1.02	-1.02	11	PASS
	118/5590	65	-1.18	-1.18	11	PASS
	134/5670	65	-1.12	-1.12	11	PASS
802.11ax HE80 26-Tones	122/5610	0	10.21	10.21	11	PASS
	122/5610	36	10.13	10.13	11	PASS
802.11ax HE80 996-Tones	122/5610	67	-8.10	-2.29	11	PASS
Note: Power Spectral Density=Read Value + Duty cycle correction factor						

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11ax HE20 26-Tones	149/5745	0	10.91	11.18	30	PASS
	157/5785	4	10.44	10.71	30	PASS
	165/5825	8	10.99	11.26	30	PASS
802.11ax HE20 52-Tones	149/5745	37	8.29	8.56	30	PASS
	157/5785	39	7.78	8.05	30	PASS
	165/5825	40	7.91	8.18	30	PASS
802.11ax HE20 106-Tones	149/5745	53	5.39	5.66	30	PASS
	157/5785	53	5.36	5.63	30	PASS
	165/5825	54	5.14	5.41	30	PASS
802.11ax HE20 242-Tones	149/5745	61	1.97	2.24	30	PASS
	157/5785	61	1.81	2.08	30	PASS
	165/5825	61	1.48	1.75	30	PASS
802.11ax HE40 26-Tones	151/5755	0	11.16	11.43	30	PASS
	159/5795	17	10.86	11.13	30	PASS
802.11ax HE40 484-Tones	151/5755	65	-1.15	-0.88	30	PASS
	159/5795	65	-1.15	-0.88	30	PASS
802.11ax HE80 26-Tones	155/5775	0	11.09	11.36	30	PASS
	155/5775	36	10.66	10.93	30	PASS
802.11ax HE80 996-Tones	155/5775	67	-9.36	-3.28	30	PASS
Note: PSD=Read Value + Duty cycle correction factor +10*log(500/470)						

MIMO

U-NII-1

Mode	Channel/ Frequency (MHz)	RU Index	Power Spectral Density					Limit (dBm/MHz)	Conclusion
			ANT1		ANT2		Total PSD (dBm/MHz)		
			Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11ax HE20 26-Tones	36/5180	0	6.76	6.76	7.35	7.35	10.08	11	PASS
	40/5200	4	5.75	5.75	5.99	5.99	8.88	11	PASS
	48/5240	8	7.34	7.34	7.12	7.12	10.24	11	PASS
802.11ax HE20 52-Tones	36/5180	37	3.91	3.91	4.68	4.68	7.32	11	PASS
	40/5200	38	4.71	4.71	4.66	4.66	7.70	11	PASS
	48/5240	40	4.41	4.41	4.22	4.22	7.33	11	PASS
802.11ax HE20 106-Tones	36/5180	53	1.31	1.31	2.23	2.23	4.80	11	PASS
	40/5200	53	1.60	1.60	2.26	2.26	4.95	11	PASS
	48/5240	54	1.83	1.83	1.89	1.89	4.87	11	PASS
802.11ax HE20 242-Tones	36/5180	61	-1.59	-1.59	-0.94	-0.94	1.76	11	PASS
	40/5200	61	-1.26	-1.26	-1.12	-1.12	1.82	11	PASS
	48/5240	61	-1.27	-1.27	-1.48	-1.48	1.64	11	PASS
802.11ax HE40 26-Tones	38/5190	0	7.69	7.69	7.58	7.58	10.65	11	PASS
	46/5230	17	8.32	8.32	7.55	7.55	10.96	11	PASS
802.11ax HE40 484-Tones	38/5190	65	-3.62	-3.62	-3.56	-3.56	-0.58	11	PASS
	46/5230	65	-3.07	-3.07	-3.36	-3.36	-0.20	11	PASS
802.11ax HE80 26-Tones	42/5210	0	7.60	7.60	8.05	8.05	10.84	11	PASS
	42/5210	36	7.86	7.86	7.27	7.27	10.59	11	PASS
802.11ax HE80 996-Tones	42/5210	67	-11.10	-5.29	-10.97	-5.16	-2.21	11	PASS

Note: 1. Power Spectral Density =Read Value + Duty cycle correction factor

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),
the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm/10})}+10^{(\text{PSD ANT2 in dBm/10})})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = G_{ANTMAX} + Array Gain, For PSD measurements on all devices, Array Gain= $10\log(\text{Nant/Nss})\text{dB}$,
so directional gain= $G_{\text{ANT MAX}}$ + Array Gain= $2.41+10\log(2/1)=5.42<6\text{ dBi.}$ So the PSD limit is 11dBm

U-NII-2A

Mode	Channel/ Frequency (MHz)	RU Index	Power Spectral Density					Limit (dBm /MHz)	Conclusion
			ANT1		ANT2		Total PSD (dBm/MHz)		
			Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11ax HE20 26-Tones	52/5260	0	7.24	7.24	6.21	6.21	9.77	11	PASS
	60/5300	4	5.27	5.27	5.27	5.27	8.28	11	PASS
	64/5320	8	6.63	6.63	6.90	6.90	9.78	11	PASS
802.11ax HE20 52-Tones	52/5260	37	4.64	4.64	3.88	3.88	7.29	11	PASS
	60/5300	38	3.73	3.73	3.75	3.75	6.75	11	PASS
	64/5320	40	3.87	3.87	4.43	4.43	7.17	11	PASS
802.11ax HE20 106-Tones	52/5260	53	2.19	2.19	1.50	1.50	4.87	11	PASS
	60/5300	53	1.37	1.37	1.48	1.48	4.44	11	PASS
	64/5320	54	1.24	1.24	1.77	1.77	4.52	11	PASS
802.11ax HE20 242-Tones	52/5260	61	1.85	1.85	1.30	1.30	4.59	11	PASS
	60/5300	61	-1.87	-1.87	-1.86	-1.86	1.15	11	PASS
	64/5320	61	-2.17	-2.17	-1.48	-1.48	1.20	11	PASS
802.11ax HE40 26-Tones	54/5270	0	7.87	7.87	6.87	6.87	10.41	11	PASS
	62/5310	17	6.69	6.69	6.97	6.97	9.84	11	PASS
802.11ax HE40 484-Tones	54/5270	65	-4.09	-4.09	-4.58	-4.58	-1.32	11	PASS
	62/5310	65	-4.97	-4.97	-4.32	-4.32	-1.62	11	PASS
802.11ax HE80 26-Tones	58/5290	0	7.09	7.09	7.03	7.03	10.07	11	PASS
	58/5290	36	7.52	7.52	6.54	6.54	10.07	11	PASS
802.11ax HE80 996-Tones	58/5290	67	-11.81	-6.00	-12.27	-6.46	-3.21	11	PASS

Note: 1. Power Spectral Density =Read Value + Duty cycle correction factor

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = $G_{\text{ANTMAX}} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain= $10\log(\text{Nant}/\text{Nss})\text{dB}$, so directional gain= $G_{\text{ANT MAX}} + \text{Array Gain}=2.17+10\log(2/1)=5.18<6\text{ dBi}$.. So the PSD limit is 11dBm

U-NII-2C

Mode	Channel/ Frequency (MHz)	RU Index	Power Spectral Density					Limit (dBm /MHz)	Conclusion
			ANT1		ANT2		Total PSD (dBm/MHz)		
			Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11ax HE20 26-Tones	100/5500	0	7.41	7.41	7.36	7.36	10.40	11	PASS
	120/5600	4	5.87	5.87	6.00	6.00	8.95	11	PASS
	140/5700	8	8.10	8.10	6.91	6.91	10.56	11	PASS
802.11ax HE20 52-Tones	100/5500	37	5.04	5.04	4.40	4.40	7.74	11	PASS
	120/5600	38	4.64	4.64	4.80	4.80	7.73	11	PASS
	140/5700	40	5.20	5.20	4.01	4.01	7.66	11	PASS
802.11ax HE20 106-Tones	100/5500	53	2.44	2.44	2.10	2.10	5.28	11	PASS
	120/5600	53	2.40	2.40	2.49	2.49	5.46	11	PASS
	140/5700	54	3.24	3.24	1.83	1.83	5.60	11	PASS
802.11ax HE20 242-Tones	100/5500	61	-0.80	-0.80	-1.29	-1.29	1.97	11	PASS
	120/5600	61	-0.76	-0.76	-0.95	-0.95	2.16	11	PASS
	140/5700	61	0.14	0.14	-1.55	-1.55	2.39	11	PASS
802.11ax HE40 26-Tones	102/5510	0	7.44	7.44	7.06	7.06	10.26	11	PASS
	134/5670	17	8.17	8.17	6.98	6.98	10.63	11	PASS
802.11ax HE40 484-Tones	102/5510	65	-4.09	-4.09	-4.29	-4.29	-1.18	11	PASS
	118/5590	65	-3.65	-3.65	-4.20	-4.20	-0.91	11	PASS
	134/5670	65	-3.38	-3.38	-4.45	-4.45	-0.87	11	PASS
802.11ax HE80 26-Tones	122/5610	0	7.45	7.45	6.97	6.97	10.23	11	PASS
	122/5610	36	7.01	7.01	7.20	7.20	10.12	11	PASS
802.11ax HE80 996-Tones	122/5610	67	-11.79	-5.98	-11.92	-6.11	-3.03	11	PASS

Note: 1. Power Spectral Density =Read Value + Duty cycle correction factor

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = $G_{\text{ANTMAX}} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain= $10\log(\text{Nant}/\text{Nss})\text{dB}$,

so directional gain= $G_{\text{ANT MAX}} + \text{Array Gain}=2.94+10\log(2/1)=5.95<6\text{ dBi}$.. So the PSD limit is 11dBm.

U-NII-3

Mode	Channel/ Frequency (MHz)	RU Index	Power Spectral Density					Limit(dBm/ 500kHz)	Conclusion
			ANT1		ANT2		Total PSD(dBm/ 500kHz)		
			Read Value (dBm/ 470kHz)	PSD (dBm/ 500kHz)	Read Value (dBm/ 470kHz)	PSD (dBm/ 500kHz)			
802.11ax HE20 26-Tones	149/5745	0	11.40	11.67	10.65	10.92	14.32	30	PASS
	157/5785	4	10.22	10.49	10.18	10.45	13.48	30	PASS
	165/5825	8	10.83	11.10	10.87	11.14	14.13	30	PASS
802.11ax HE20 52-Tones	149/5745	37	8.67	8.94	7.86	8.13	11.56	30	PASS
	157/5785	38	7.79	8.06	7.81	8.08	11.08	30	PASS
	165/5825	40	8.13	8.40	7.96	8.23	11.33	30	PASS
802.11ax HE20 106-Tones	149/5745	53	5.40	5.67	4.95	5.22	8.46	30	PASS
	157/5785	53	5.02	5.29	5.22	5.49	8.40	30	PASS
	165/5825	54	4.90	5.17	4.89	5.16	8.18	30	PASS
802.11ax HE20 242-Tones	149/5745	61	2.23	2.50	1.66	1.93	5.23	30	PASS
	157/5785	61	1.75	2.02	1.97	2.24	5.14	30	PASS
	165/5825	61	1.61	1.88	1.52	1.79	4.85	30	PASS
802.11ax HE40 26-Tones	151/5755	0	11.30	11.57	10.88	11.15	14.38	30	PASS
	159/5795	17	10.57	10.84	10.97	11.24	14.05	30	PASS
802.11ax HE40 484-Tones	151/5755	65	-1.21	-0.94	-1.34	-1.07	2.01	30	PASS
	159/5795	65	-1.31	-1.04	-1.63	-1.36	1.81	30	PASS
802.11ax HE80 26-Tones	155/5775	0	10.59	10.86	10.91	11.18	14.03	30	PASS
	155/5775	36	10.30	10.57	10.49	10.76	13.68	30	PASS
802.11ax HE80 996-Tones	155/5775	67	-8.99	-2.91	-9.50	-3.42	-0.15	30	PASS

Note:1. Power Spectral Density =Read Value + Duty cycle correction factor +10*log(500/470).

2.For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

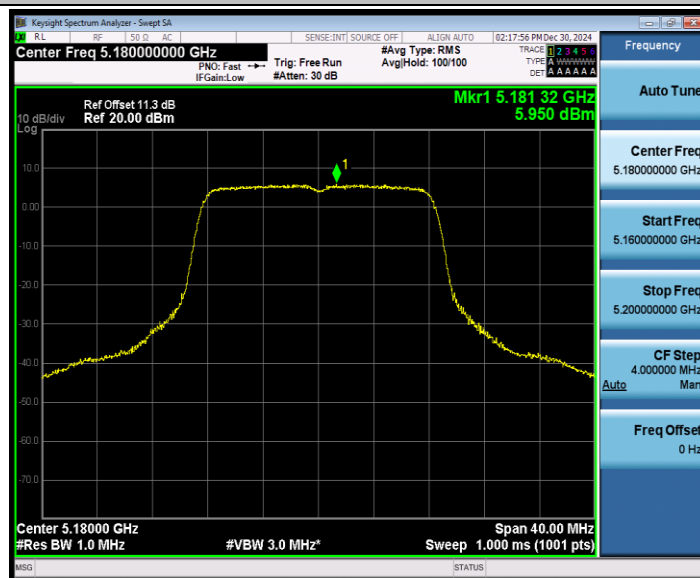
the power spectral density= $10\log(10^{(\text{PSD ANT1 in dBm}/10)}+10^{(\text{PSD ANT2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the Highest gain.

Directional gain = G_{ANTMAX} + Array Gain, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})$ dB,

so directional gain= $G_{\text{ANT MAX}}$ + Array Gain= $2.72+10\log(2/1)=5.73<6$ dBi. So the PSD limit is 30dBm.

11A_Ant1_5180



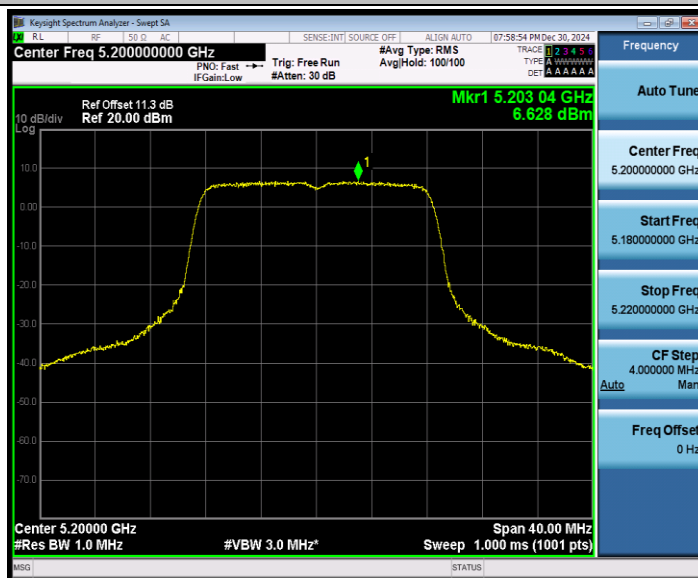
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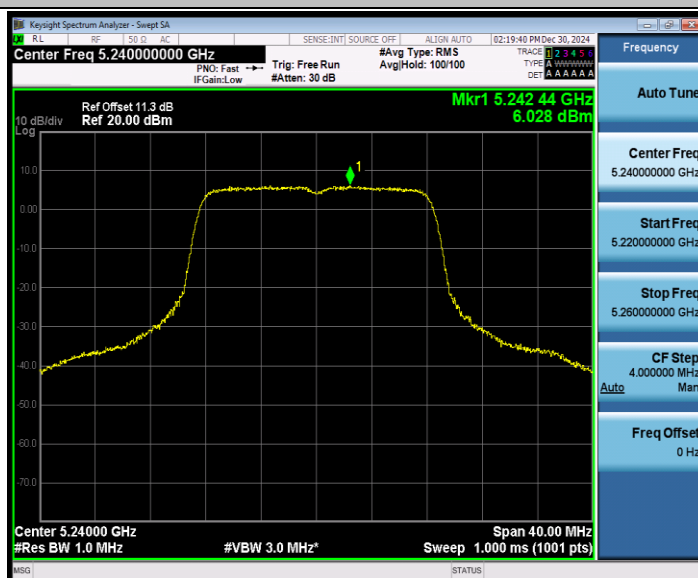
11A_Ant1_5200



11A_Ant2_5200



11A_Ant1_5240



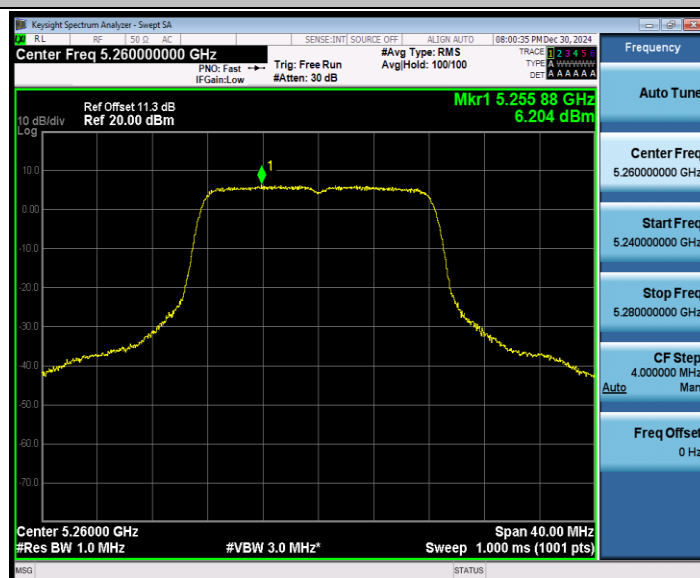
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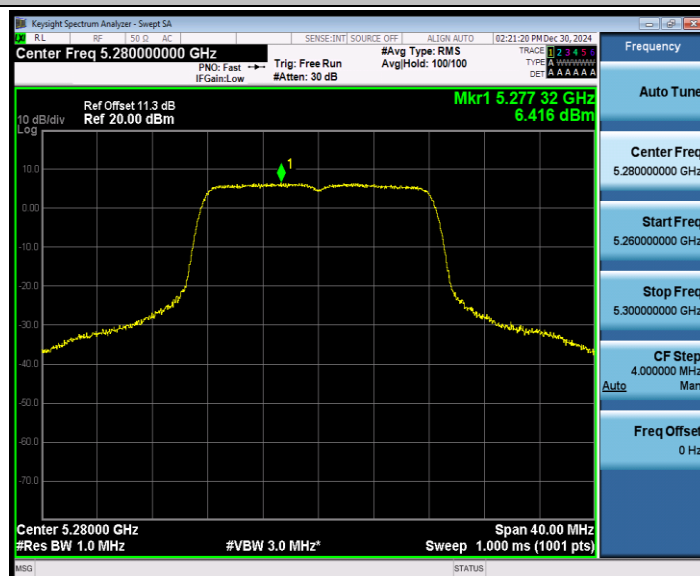
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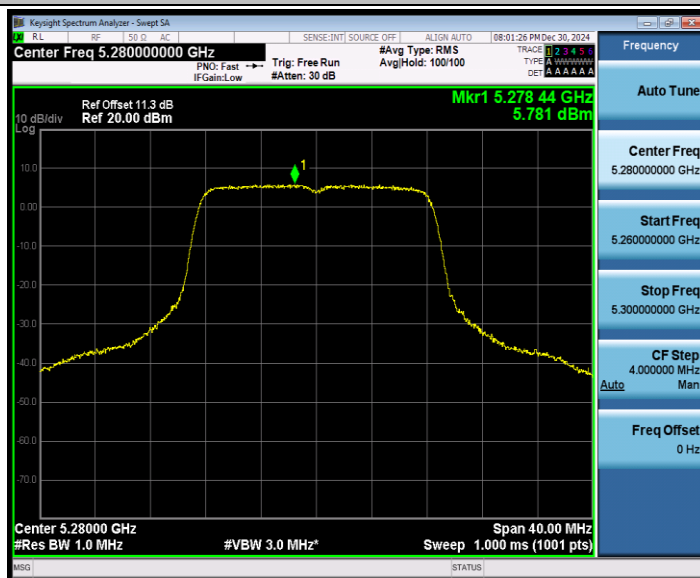
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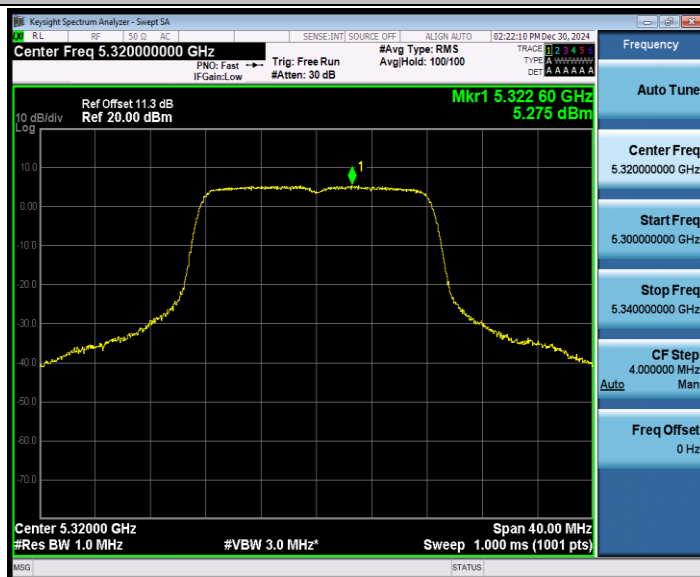
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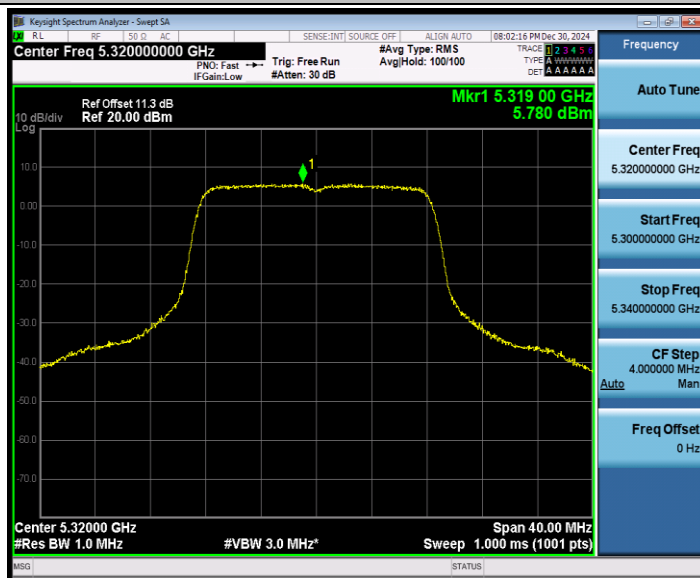
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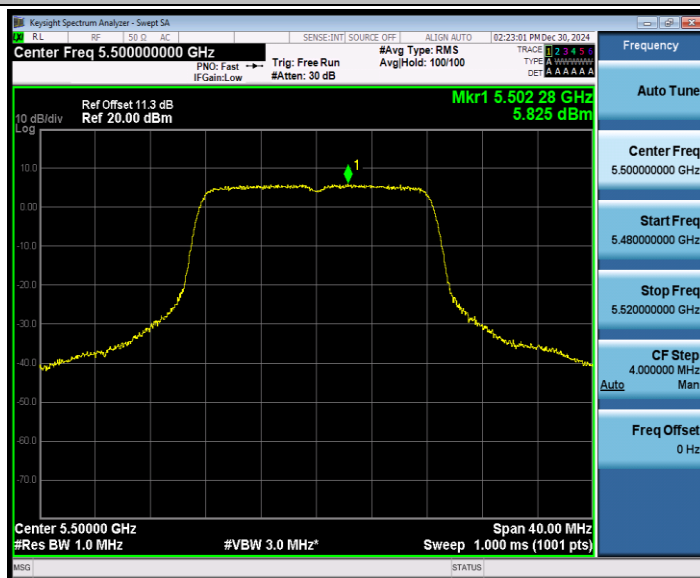
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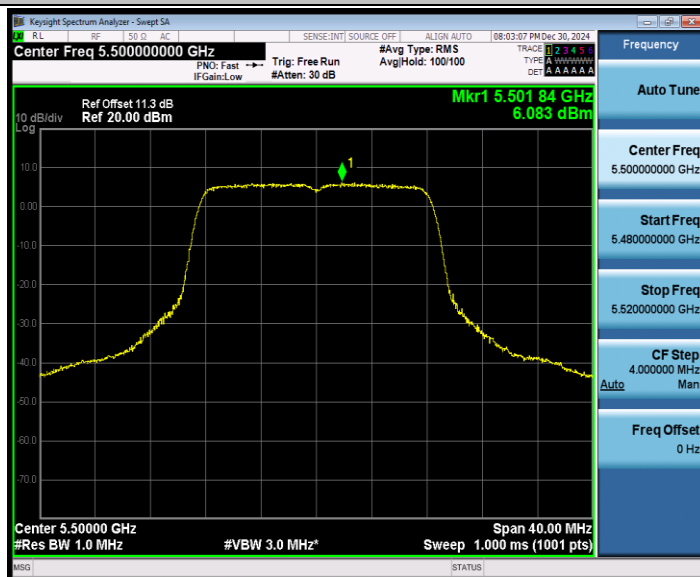
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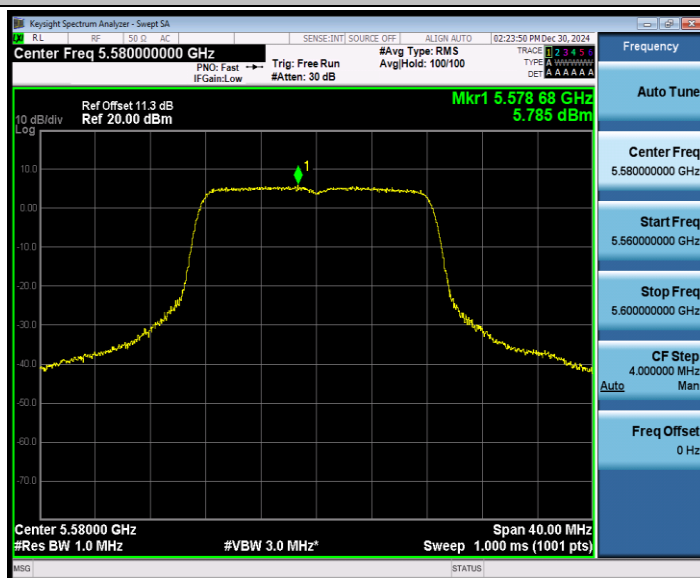
11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



11A_Ant2_5580



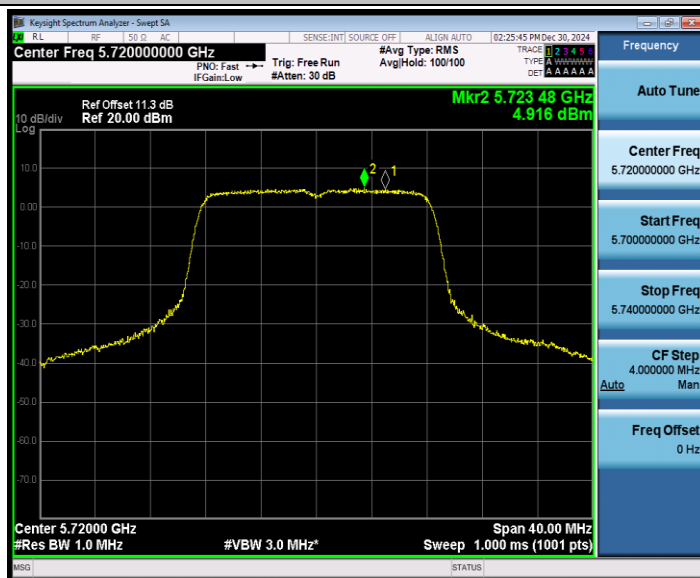
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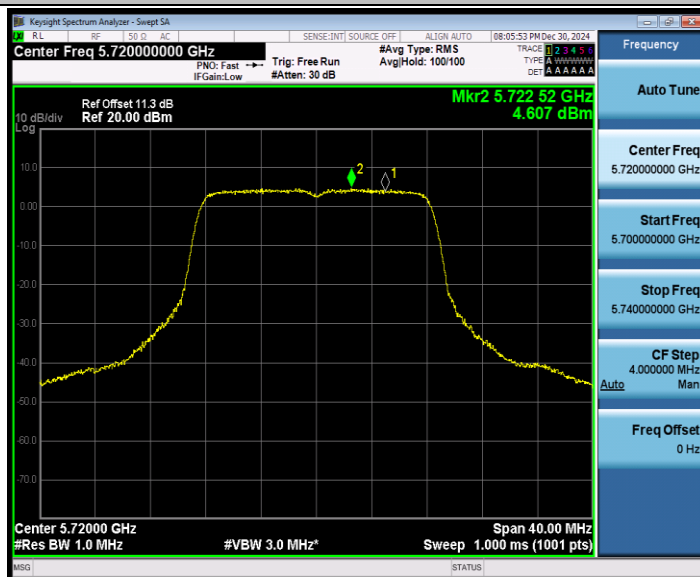
11A_Ant2_5700



11A_Ant1_5720_UNII-2C



11A_Ant2_5720_UNII-2C



11A_Ant1_5720_UNII-3

