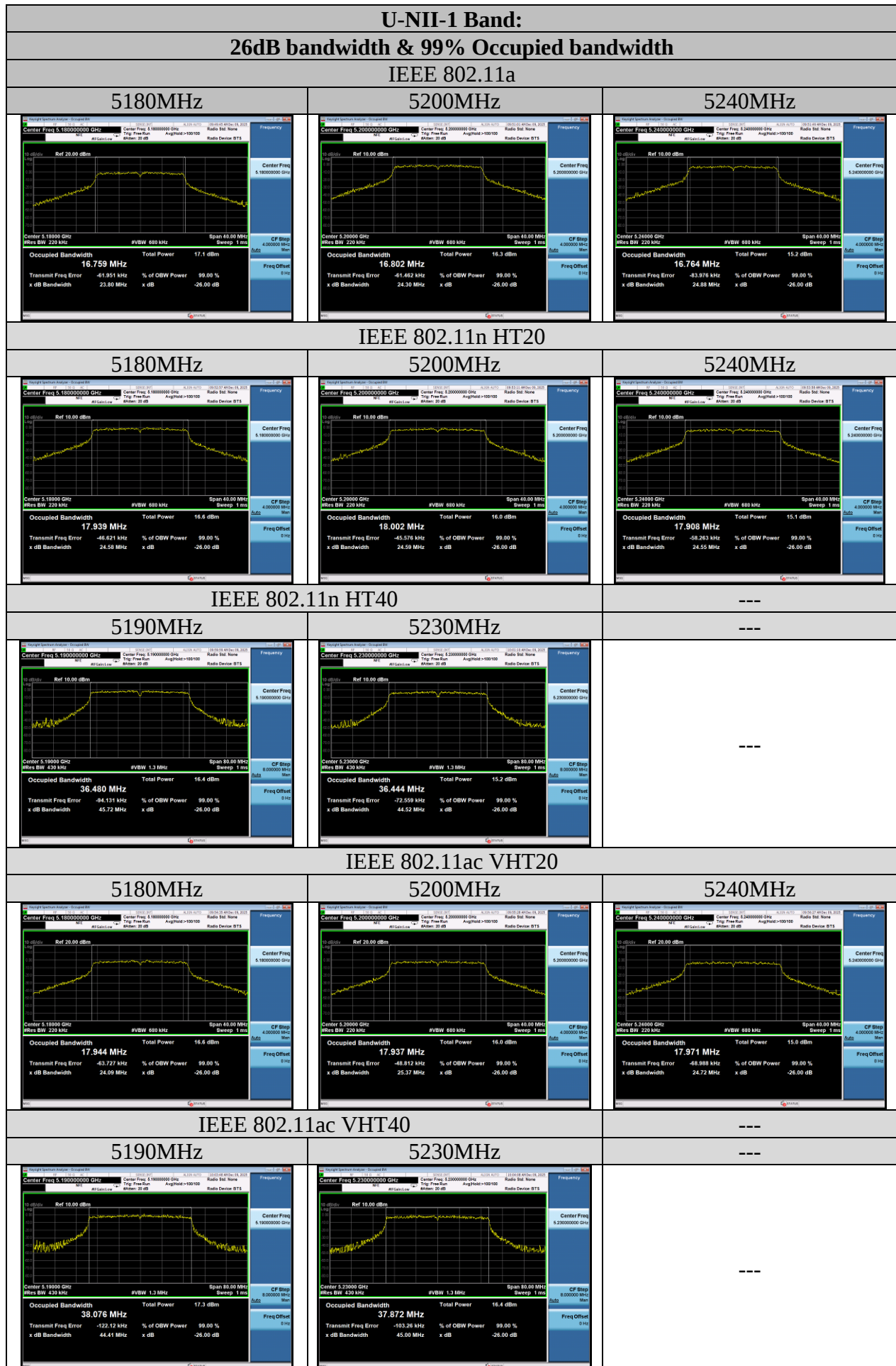
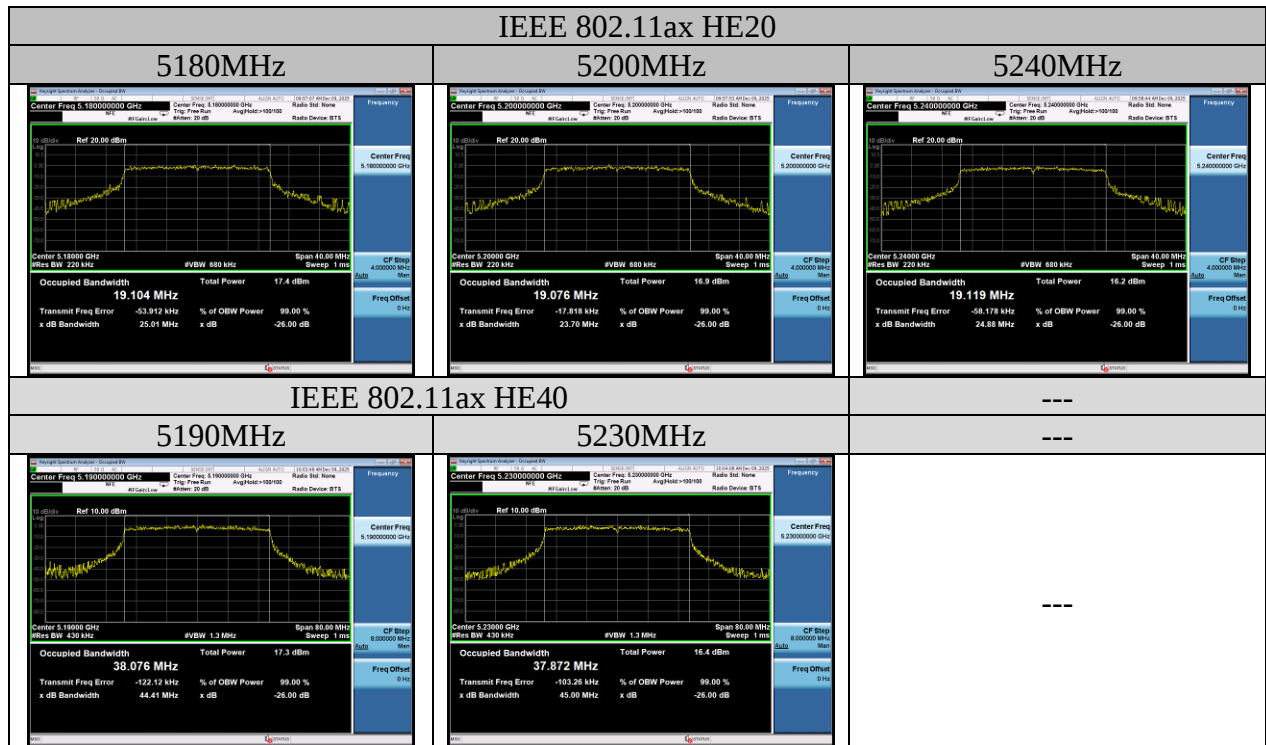
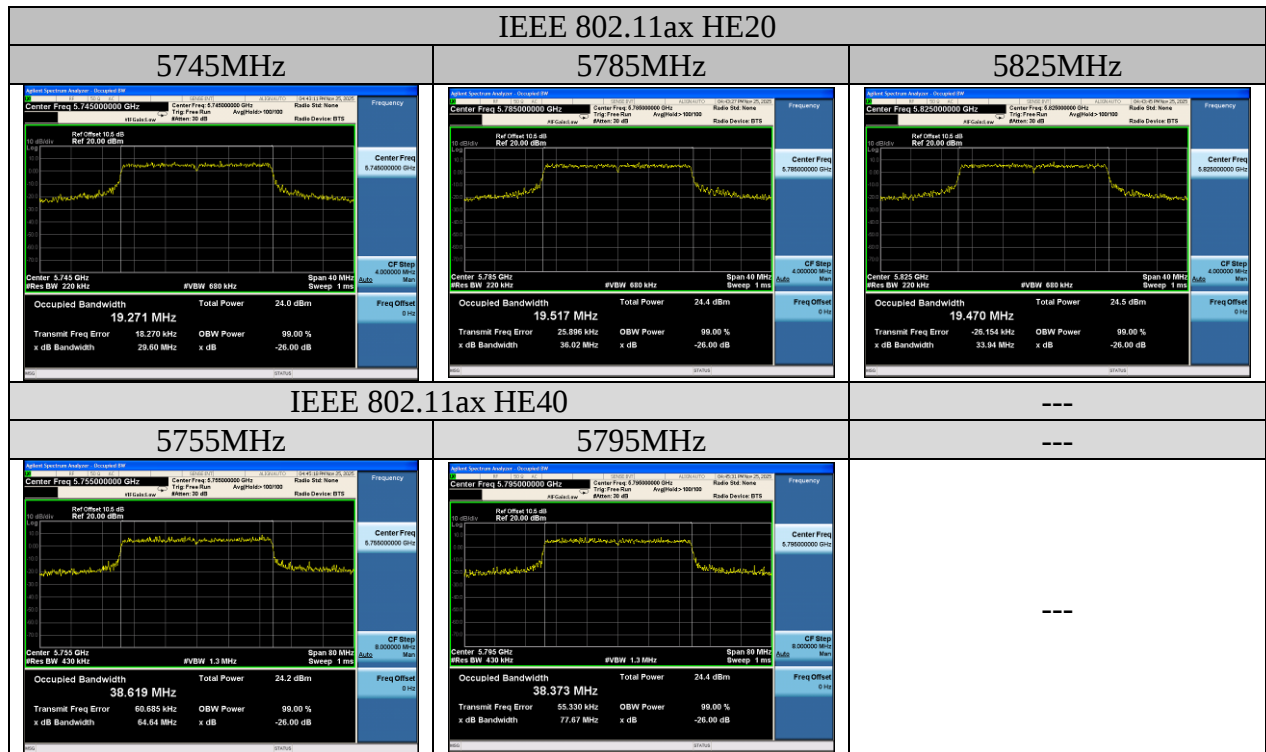
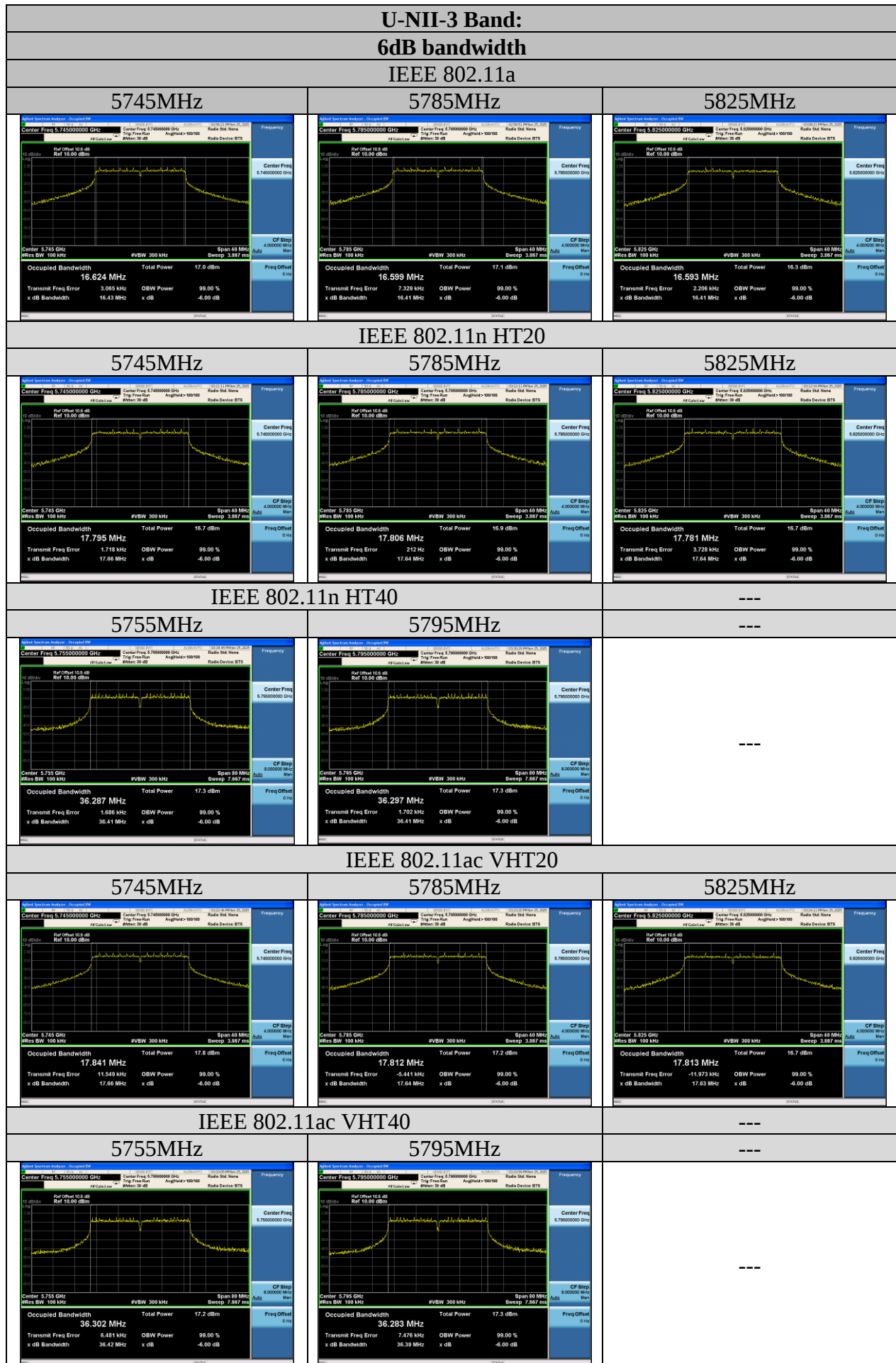


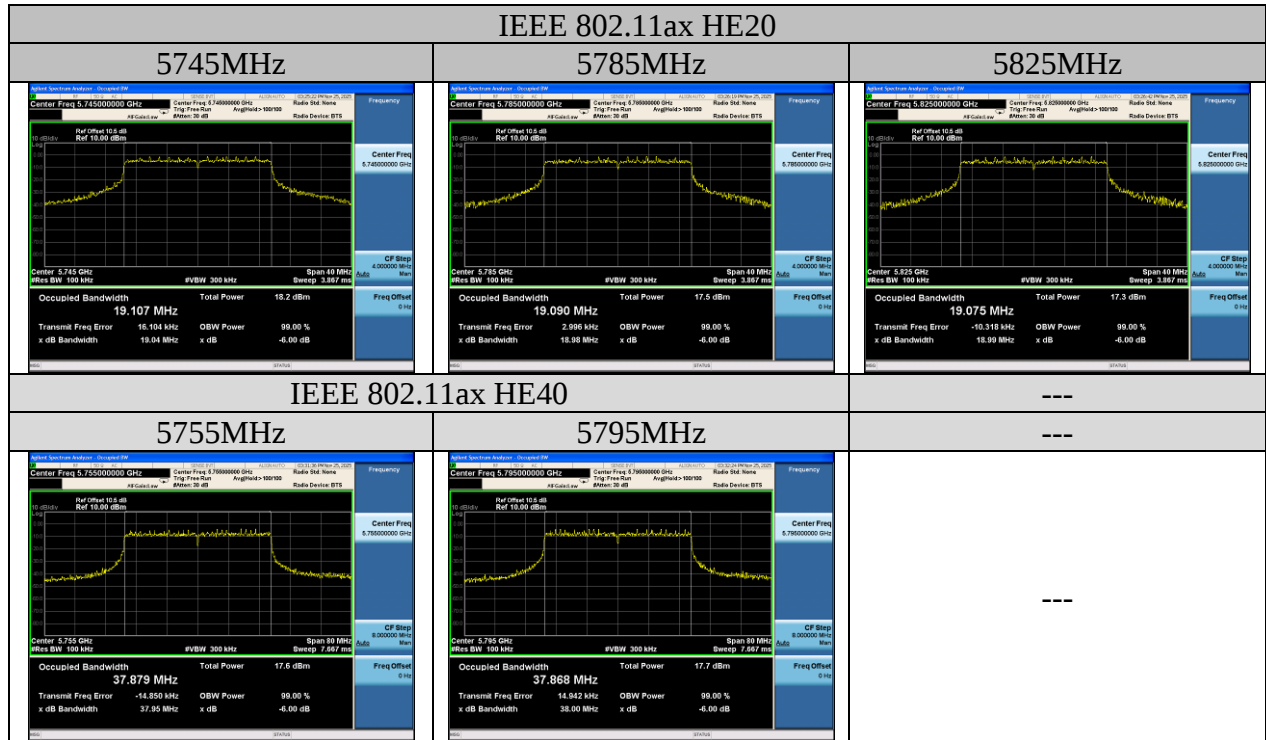












7. OUTPUT POWER TEST

7.1. Limit

For the band 5.15–5.25 GHz.

For mobile and portable 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.

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.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

7.2. Test Procedure

1. Connected the EUT's antenna port to measure device by 20dB attenuator.
2. Use the test method described in ANSI C63.10 clause 12.3 Method SA-1
 - 1) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
 - 2) Set RBW = 1 MHz.
 - 3) Set VBW $\geq$ 3 MHz.
 - 4) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
 - 5) Sweep time = auto.
 - 6) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
 - 7) If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
 - 8) Trace average at least 100 traces in power averaging (rms) mode.
 - 9) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.3. Test Results

EUT: Car Camcorder		
M/N: P70		
Test date: 2025-11-26~12-09	Pressure: 102.1±1.0kpa	Humidity: 53.2±3.0%
Tested by: Lili	Test site: RF site	Temperature: 22.3±0.6℃

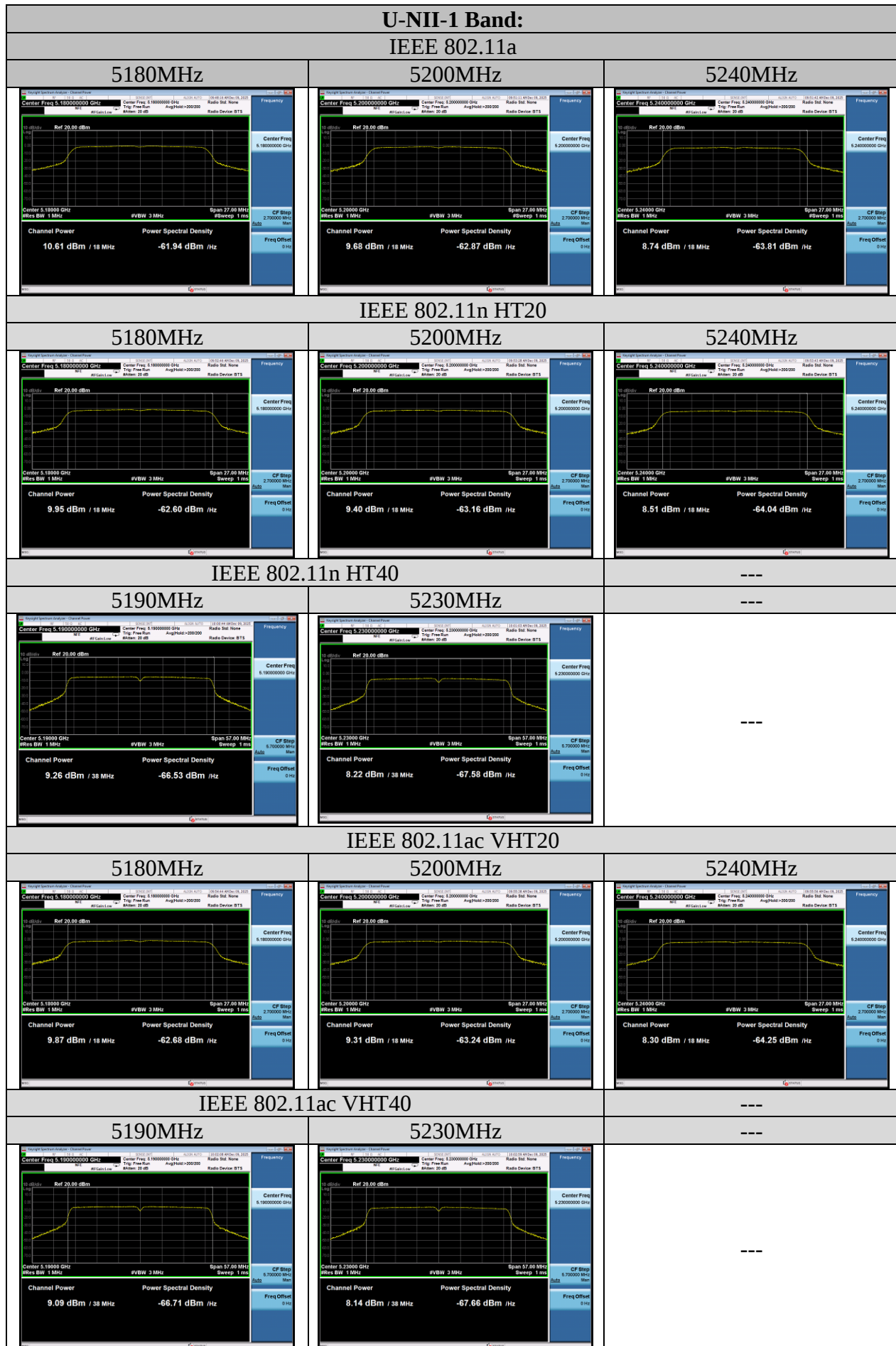
U-NII-1 Band:

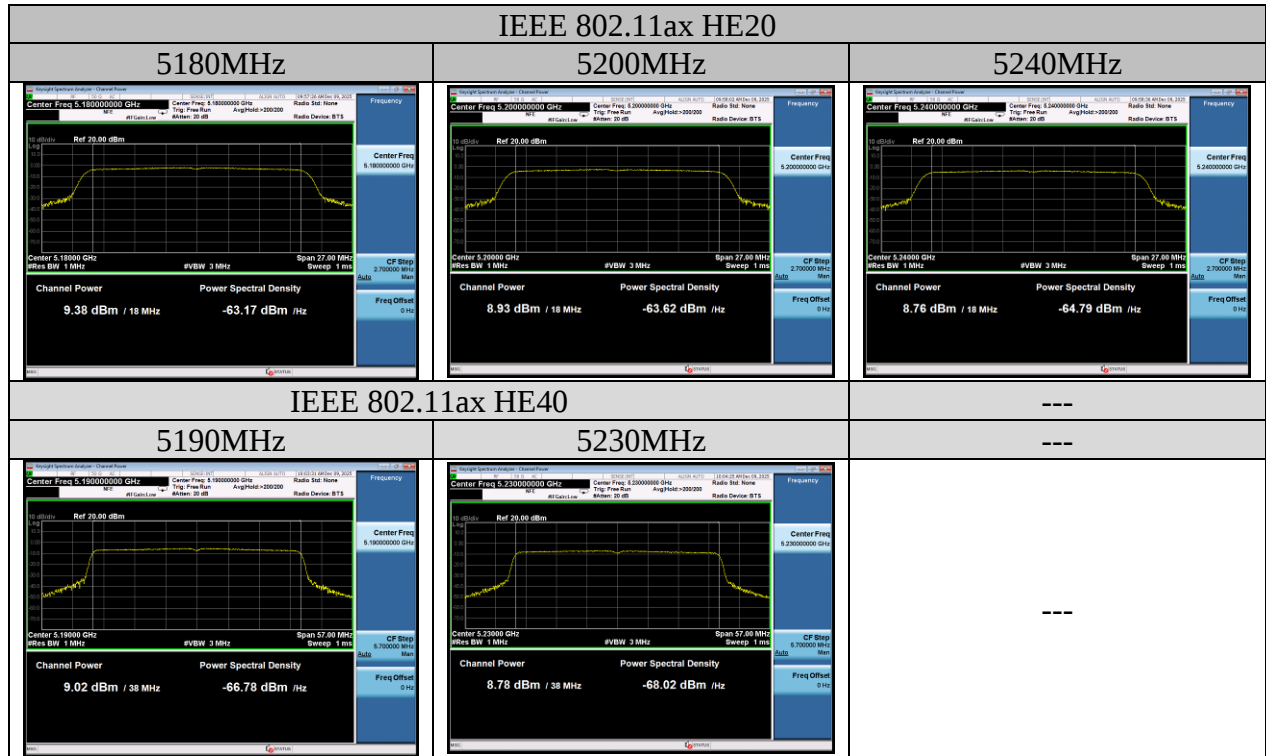
Test Mode	Frequency (MHz)	Power Setting	Duty cycle factor (dB)	Output Power (dBm)	Limit (dBm)
11a	5180	15	0.21	10.82	23.75
	5200	15	0.21	9.89	
	5240	15	0.21	8.95	
11n HT20	5180	15	0.24	10.19	23.75
	5200	15	0.24	9.64	
	5240	15	0.24	8.75	
11n HT40	5190	15	0.61	9.87	23.75
	5230	15	0.61	8.83	
11ac VHT20	5180	15	0.25	10.12	23.75
	5200	15	0.25	9.56	
	5240	15	0.25	8.55	
11ac VHT40	5190	15	0.45	9.54	23.75
	5230	15	0.45	8.59	
11axHE20	5180	15	0.59	9.97	23.75
	5200	15	0.59	9.52	
	5240	15	0.59	9.35	
11axHE40	5190	15	0.50	9.52	23.75
	5230	15	0.50	9.28	

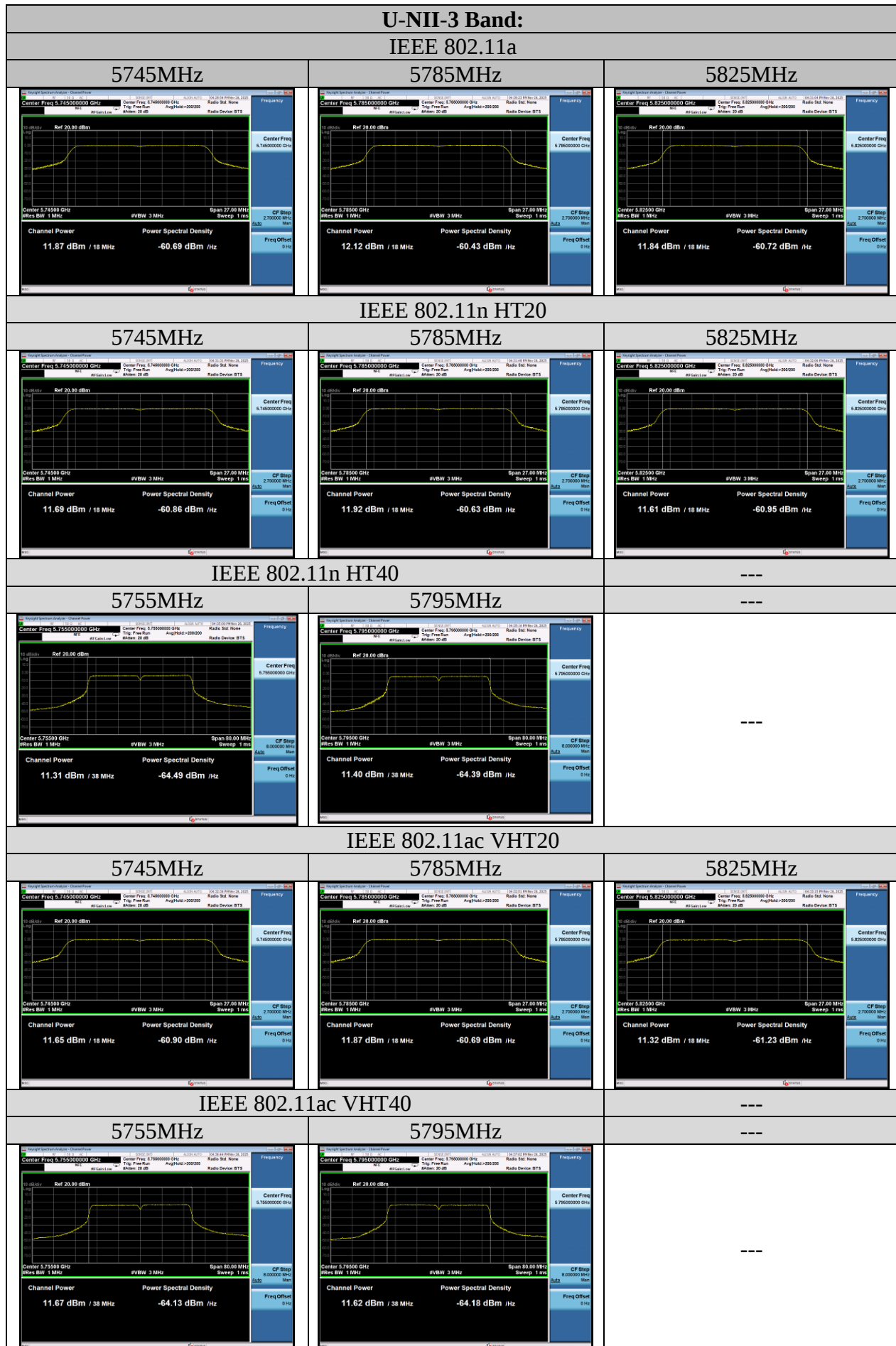
Conclusion: Pass

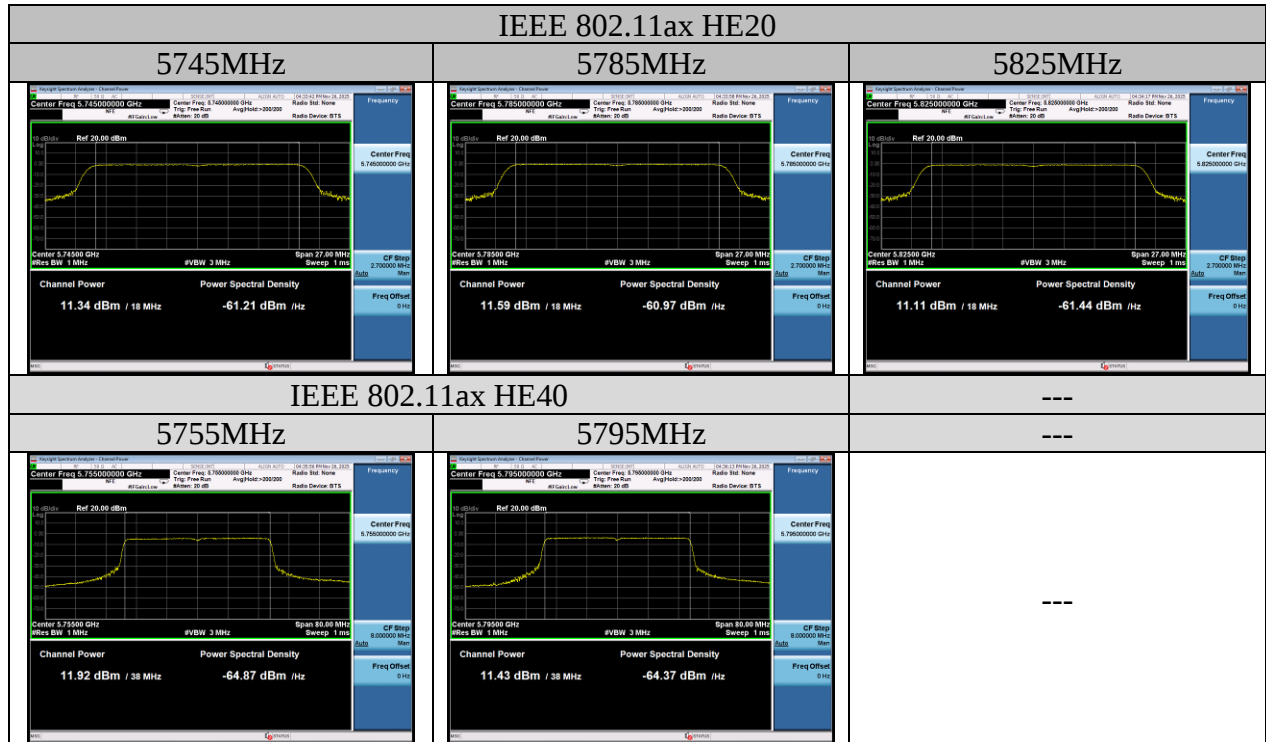
U-NII-3 Band:

Test Mode	Frequency (MHz)	Power Setting	Duty cycle factor (dB)	Output Power (dBm)	Limit (dBm)
11a	5475	15	0.21	12.08	28.15
	5485	15	0.21	12.33	
	5825	15	0.21	12.05	
11n HT20	5475	15	0.24	11.93	28.15
	5485	15	0.24	12.16	
	5825	15	0.24	11.85	
11n HT40	5755	15	0.61	12.26	28.15
	5795	15	0.61	12.48	
11ac VHT20	5475	15	0.25	11.90	28.15
	5485	15	0.25	12.12	
	5825	15	0.25	11.57	
11ac VHT40	5755	15	0.45	12.12	28.15
	5795	15	0.45	12.07	
11ax HE20	5475	15	0.59	11.93	28.15
	5485	15	0.59	12.18	
	5825	15	0.59	11.70	
11ax HE40	5755	15	0.50	12.42	28.15
	5795	15	0.50	11.93	
Conclusion: Pass					









8. Spectral Density Test

8.1. Limit

Band 5150-5250 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5250-5350 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5470-5725 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5725-5850 MHz:

The power spectral density shall not exceed 30 dBm in any 500 KHz band.

8.2. Test Procedure

Use the test method described in ANSI C63.10 clause 12.5:

For the Band 5.15-5.35GHz; 5.47-5.725 GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW, RMS Detector.

So use the test method described in KDB789033 clause E

- 1) Set the RBW=100kHz and VBW =300kHz
- 2) Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- 3) Sweep time = auto
- 4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- 5) Use the “peak search” function of spectrum analyzer find the max value, then add $10\log(500\text{kHz}/\text{RBW})$ to the measured result.
- 6) Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.3. Test Results

EUT: Car Camcorder		
M/N: P70		
Test date: 2025-11-25~12-09	Pressure: 102.1±1.0kpa	Humidity: 53.2±3.0%
Tested by: Lili	Test site: RF site	Temperature: 22.3±0.6℃

U-NII-1 Band:

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
11a	5180	-0.268	10.77
	5200	-1.006	
	5240	-2.160	
11n HT20	5180	-1.074	10.77
	5200	-1.478	
	5240	-2.701	
11n HT40	5190	-5.058	10.77
	5230	-5.924	
11ac VHT20	5180	-0.982	10.77
	5200	-1.473	
	5240	-2.316	
11ac VHT40	5190	-4.887	10.77
	5230	-6.035	
11ax HE20	5180	-1.775	10.77
	5200	-2.111	
	5240	-2.672	
11ax HE40	5190	-5.426	10.77
	5230	-6.048	
Conclusion: Pass			

U-NII-3 Band:

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)
11a	5745	-3.44	28.15
	5785	-3.37	
	5825	-3.67	
11n HT20	5745	-3.72	28.15
	5785	-3.88	
	5825	-3.89	
11n HT40	5755	-6.99	28.15
	5795	-6.82	
11ac VHT20	5745	-3.77	28.15
	5785	-3.64	
	5825	-3.69	
11ac VHT40	5755	-7.01	28.15
	5795	-6.76	
11ax HE20	5745	-5.16	28.15
	5785	-4.70	
	5825	-4.94	
11ax HE40	5755	-7.73	28.15
	5795	-7.86	
Conclusion: Pass			