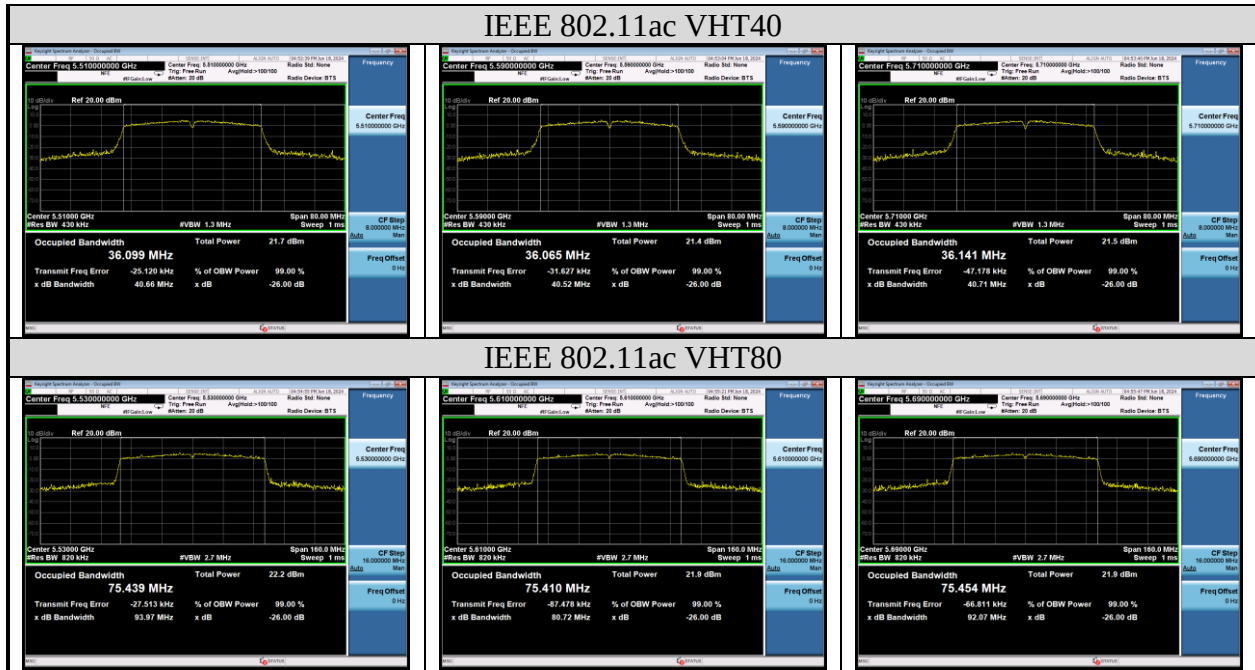
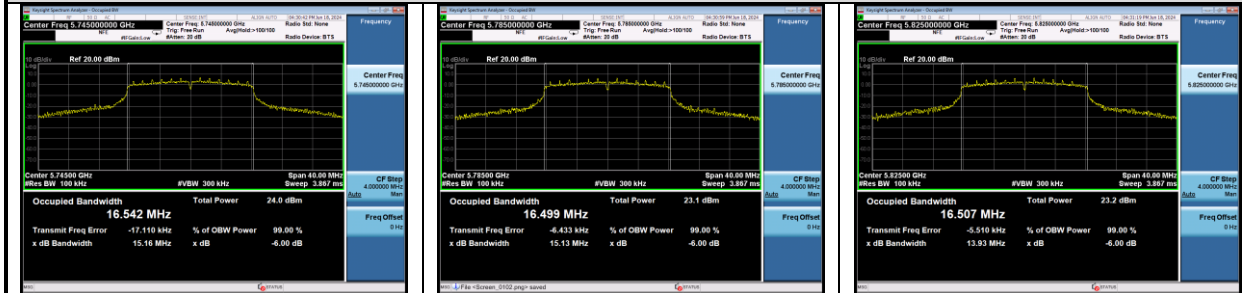




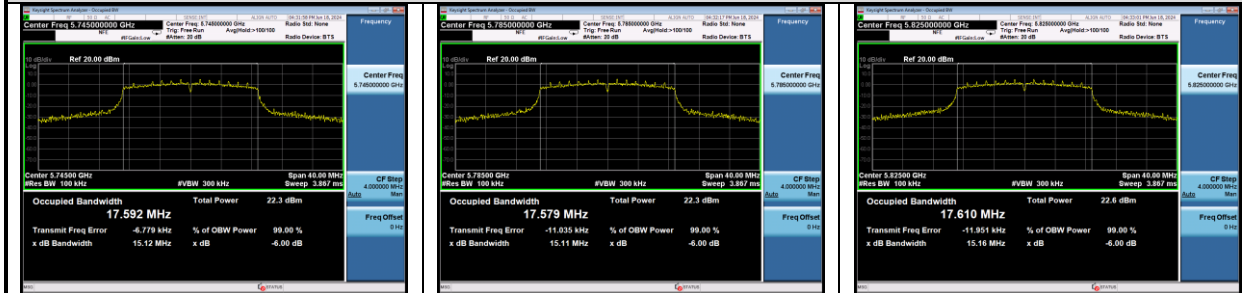
6dB bandwidth

U-NII-3 Band

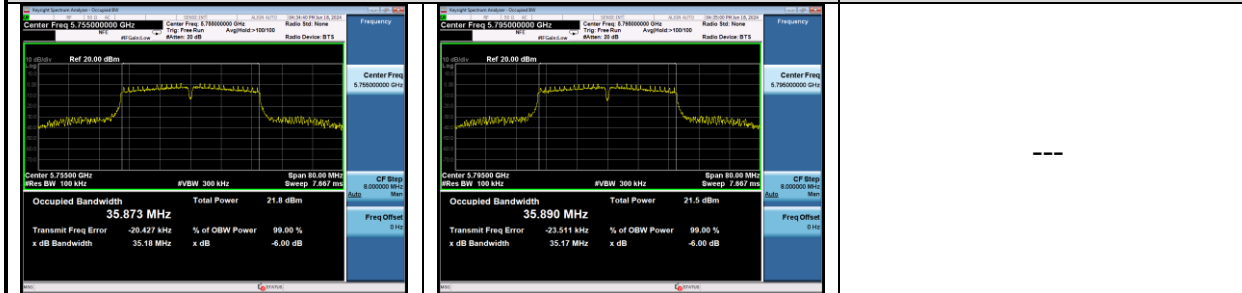
IEEE 802.11a



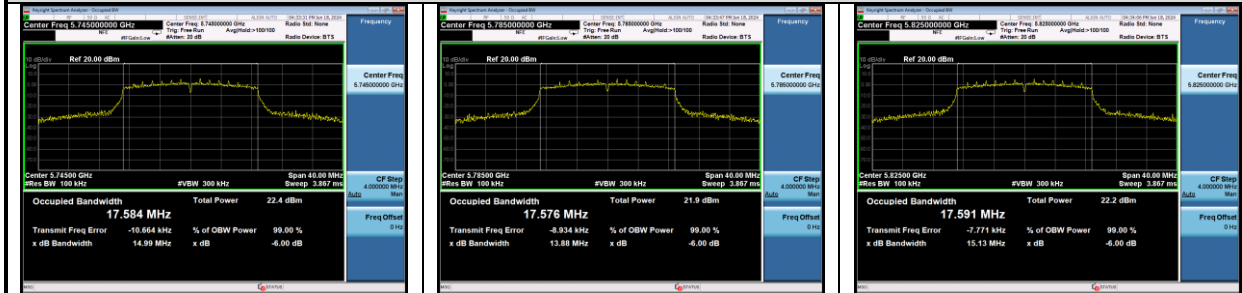
IEEE 802.11n HT20



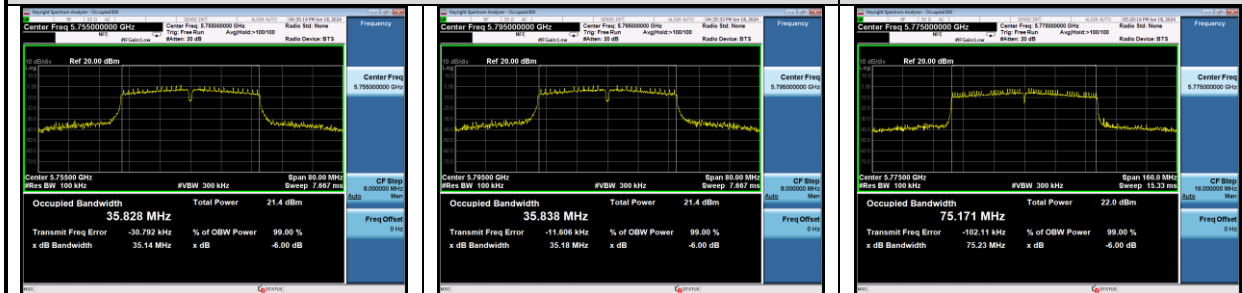
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40

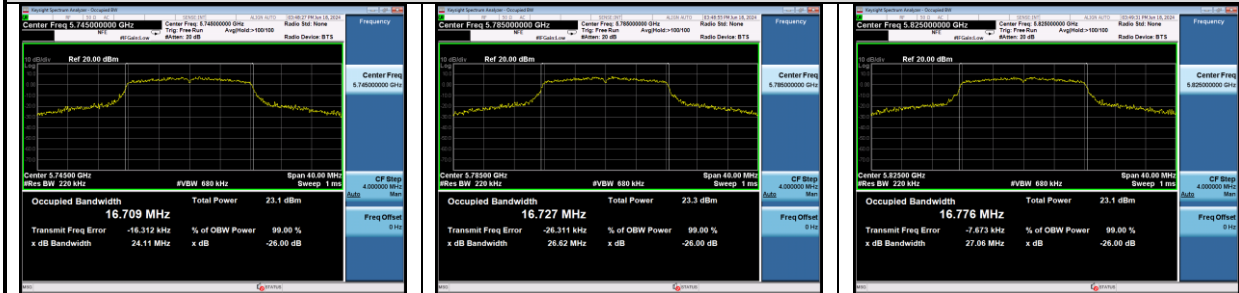


IEEE 802.11ac VHT80

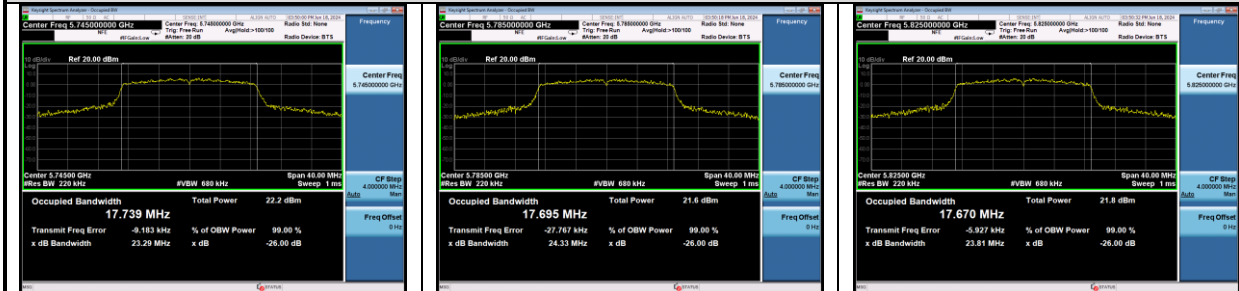
26dB bandwidth & 99% Occupied bandwidth

U-NII-3 Band

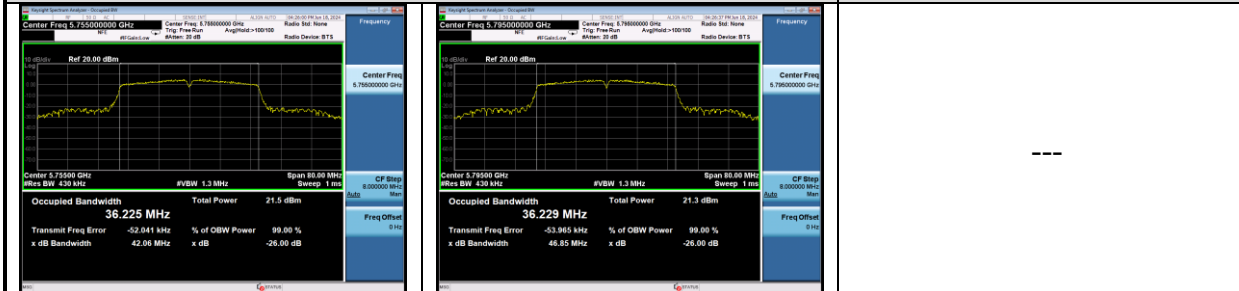
IEEE 802.11a



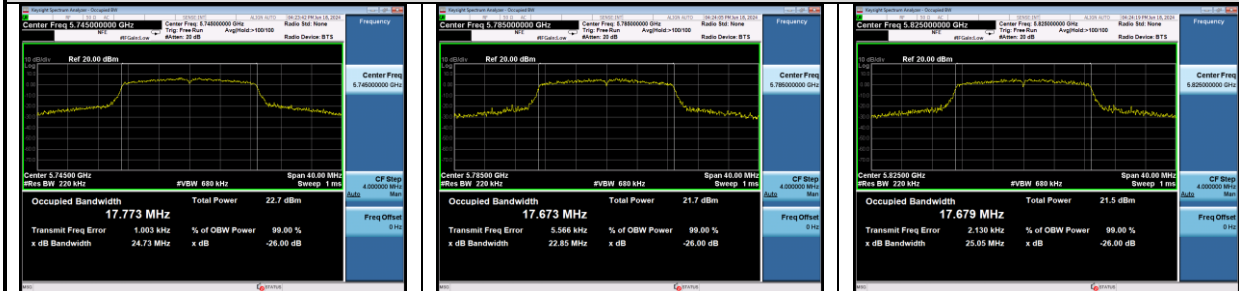
IEEE 802.11n HT20



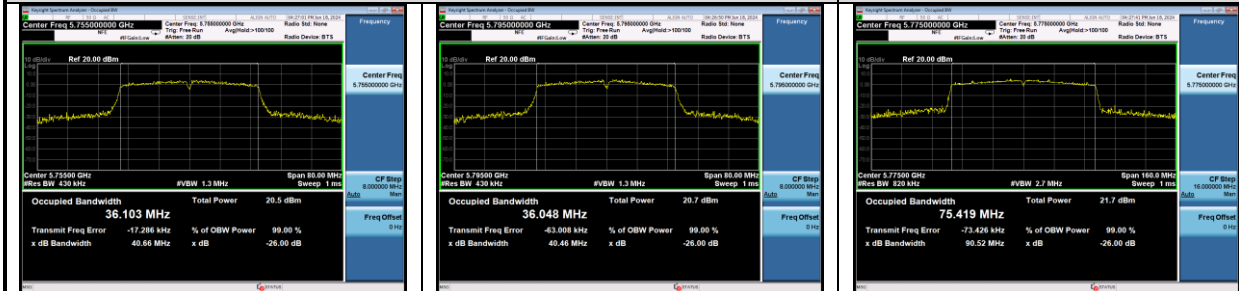
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80

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 10dB 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

U-NII-1 Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-12~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: lili	Test site: RF site	Temperature: 22.3±0.6℃

Test Mode	Frequency (MHz)	Power Setting	duty cycle factor (db)	Output Power (dBm)	Limit (dBm)
11a	5180	17	0.08	14.29	23.98
	5200	17	0.08	14.44	
	5240	17	0.08	14.73	
11n HT20	5180	17	0.11	14.13	23.98
	5200	17	0.11	14.23	
	5240	17	0.11	14.48	
11n HT40	5190	15	0.23	11.81	23.98
	5230	15	0.23	11.85	
11ac VHT20	5180	15	0.12	11.72	23.98
	5200	15	0.12	11.69	
	5240	15	0.12	11.99	
11ac VHT40	5190	17	0.22	13.34	23.98
	5230	17	0.22	13.57	
11ac VHT80	5210	17	0.50	13.47	23.98
Conclusion:Pass					

U-NII-2A Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-05~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by:lili	Test site: RF site	Temperature: 22.3±0.6°C

Test Mode	Frequency (MHz)	Power Setting	Duty factor(db)	Output Power (dBm)	Limit (dBm)
11a	5260	17	0.12	14.71	23.98
	5300	17	0.12	14.80	
	5320	17	0.12	14.94	
11n HT20	5260	17	0.11	14.51	23.98
	5300	17	0.11	14.59	
	5320	17	0.11	14.70	
11n HT40	5270	15	0.22	11.88	23.98
	5310	15	0.22	12.00	
11ac VHT20	5260	15	0.10	11.94	23.98
	5300	15	0.10	11.97	
	5320	15	0.10	12.02	
11ac VHT40	5270	17	0.21	13.53	23.98
	5310	17	0.21	13.66	
11ac VHT80	5290	17	0.46	13.56	23.98
Conclusion:Pass					

U-NII-2C Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-07~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by:lili	Test site: RF site	Temperature: 22.3±0.6℃

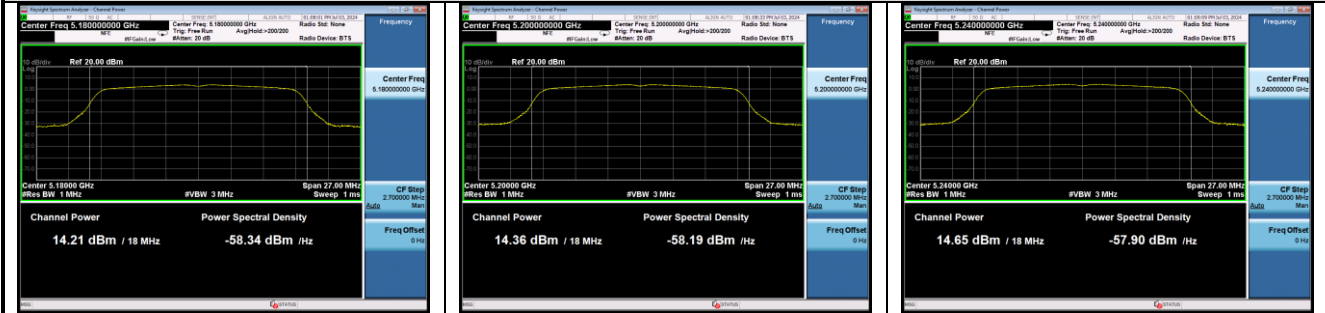
Test Mode	Frequency (MHz)	Power Setting	Duty factor(db)	Output Power (dBm)	Limit (dBm)
11a	5500	17	0.12	14.80	23.98
	5600	17	0.12	15.06	
	5720	17	0.12	14.86	
11n HT20	5500	17	0.11	14.62	23.98
	5600	17	0.11	14.91	
	5720	17	0.11	14.71	
11n HT40	5510	15	0.23	11.86	23.98
	5590	15	0.23	12.09	
	5710	15	0.23	11.94	
11ac VHT20	5500	15	0.12	11.89	23.98
	5600	15	0.12	11.84	
	5720	15	0.12	11.89	
11ac VHT40	5510	17	0.21	14.61	23.98
	5590	17	0.21	14.54	
	5710	17	0.21	14.39	
11ac VHT80	5530	17	0.47	14.72	23.98
	5610	17	0.47	14.64	
	5690	17	0.47	14.49	
Conclusion:Pass					

U-NII-3 Band:

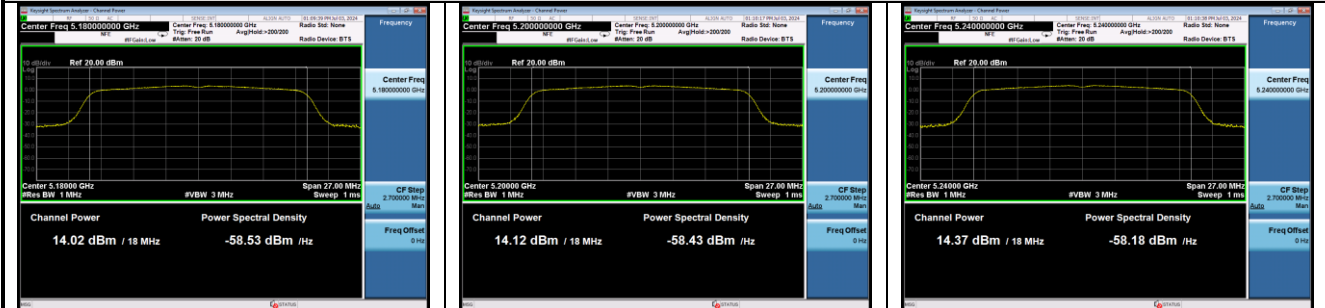
EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-12~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: lili	Test site: RF site	Temperature: 22.3±0.6°C

Test Mode	Frequency (MHz)	Power Setting	Duty factor(db)	Output Power (dBm)	Limit (dBm)
11a	5475	17	0.10	14.84	30
	5485	17	0.10	14.64	
	5825	17	0.10	14.79	
11n HT20	5475	17	0.11	14.75	30
	5485	17	0.11	14.50	
	5825	17	0.11	14.60	
11n HT40	5755	15	0.23	11.97	30
	5795	15	0.23	11.95	
11ac VHT20	5475	15	0.11	11.87	30
	5485	15	0.11	11.84	
	5825	15	0.11	11.78	
11ac VHT40	5755	15	0.23	11.91	30
	5795	15	0.23	11.99	
11ac VHT80	5775	15	0.44	11.99	30
Conclusion:Pass					

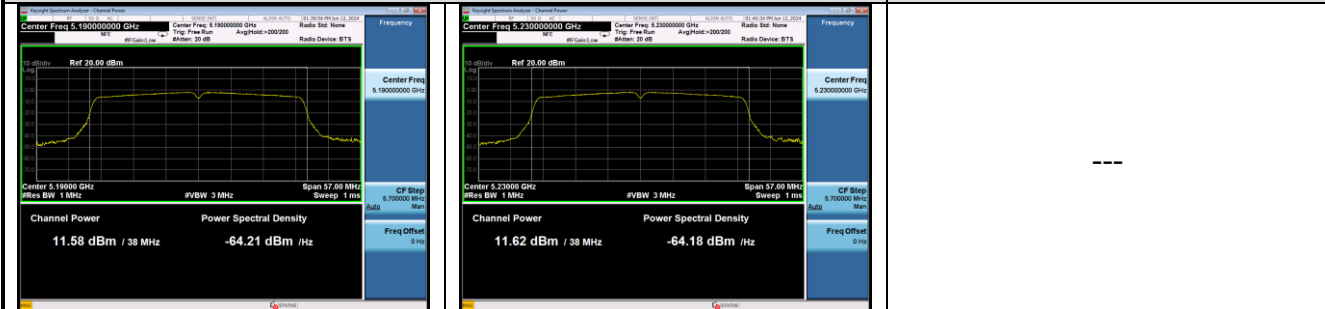
U-NII-1 Band IEEE 802.11a



IEEE 802.11n HT20



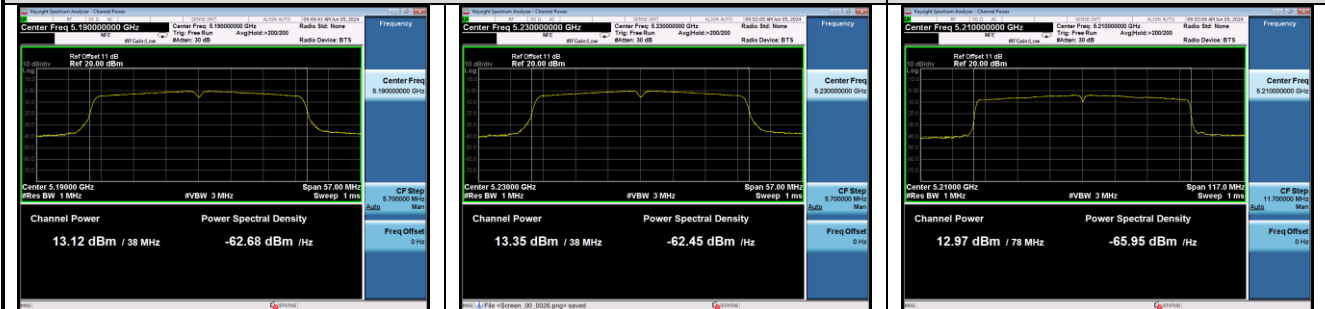
IEEE 802.11n HT40



IEEE 802.11ac VHT20



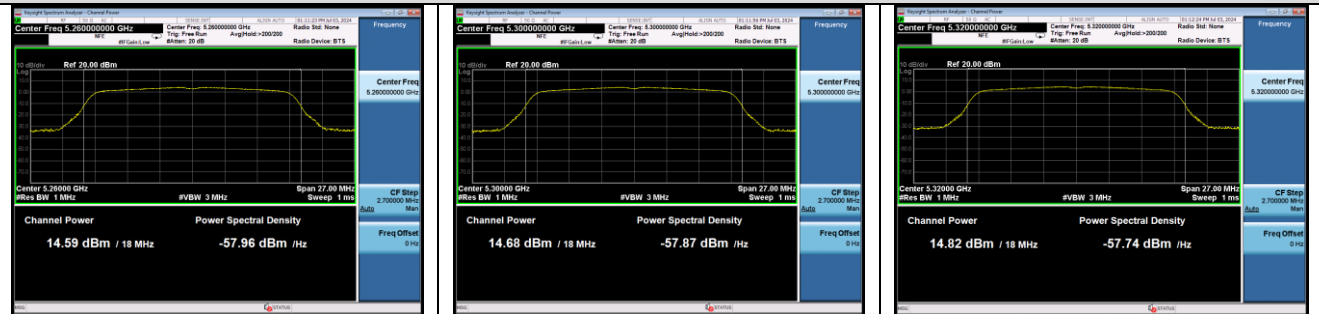
IEEE 802.11ac VHT40



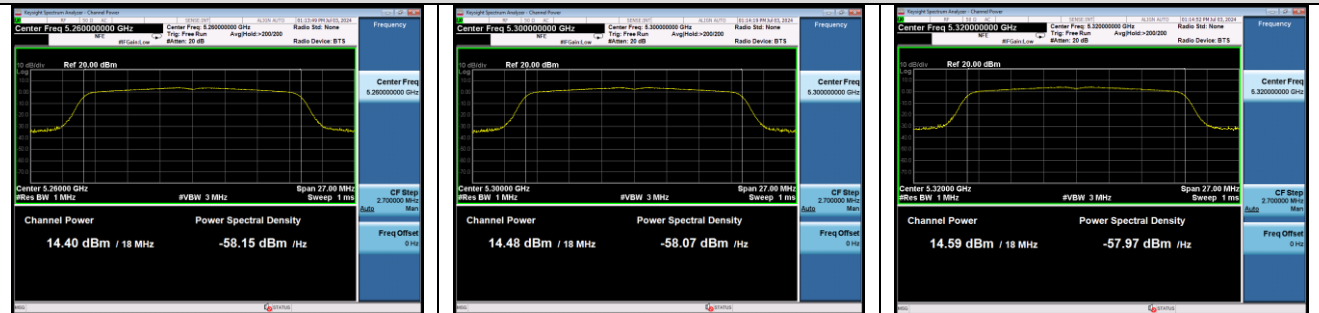
IEEE 802.11ac VHT80

U-NII-2A Band

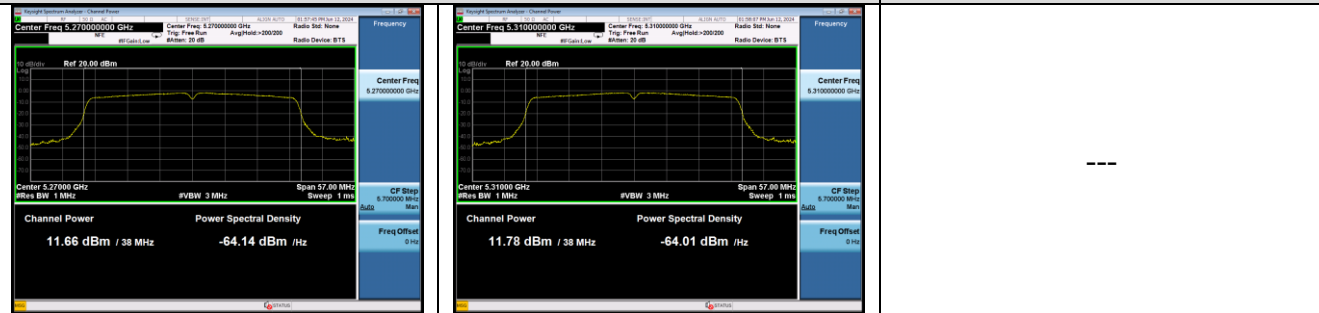
IEEE 802.11a



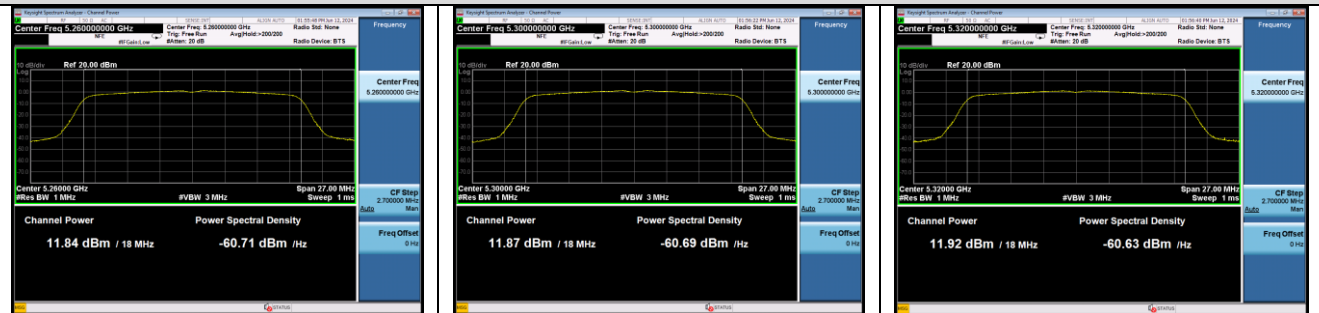
IEEE 802.11n HT20



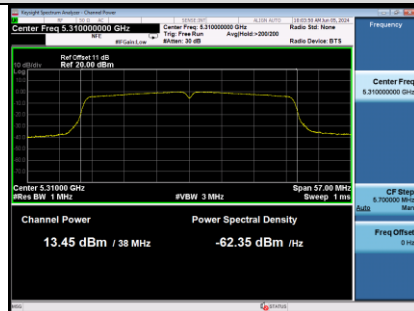
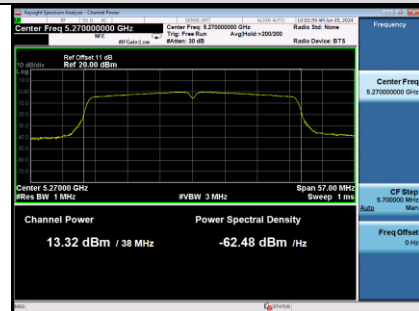
IEEE 802.11n HT40



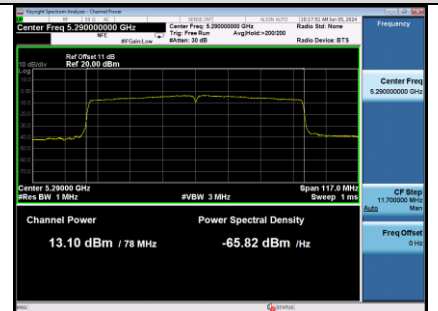
IEEE 802.11ac VHT20



IEEE 802.11ac VHT40

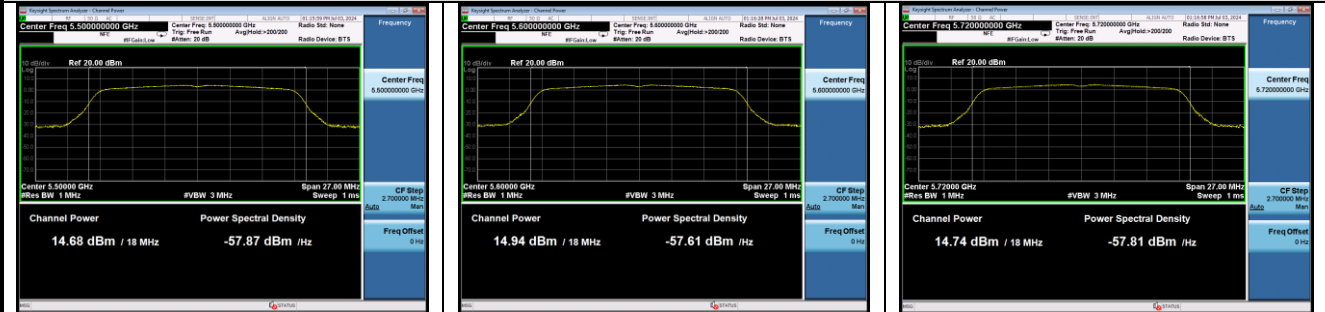


IEEE 802.11ac VHT80

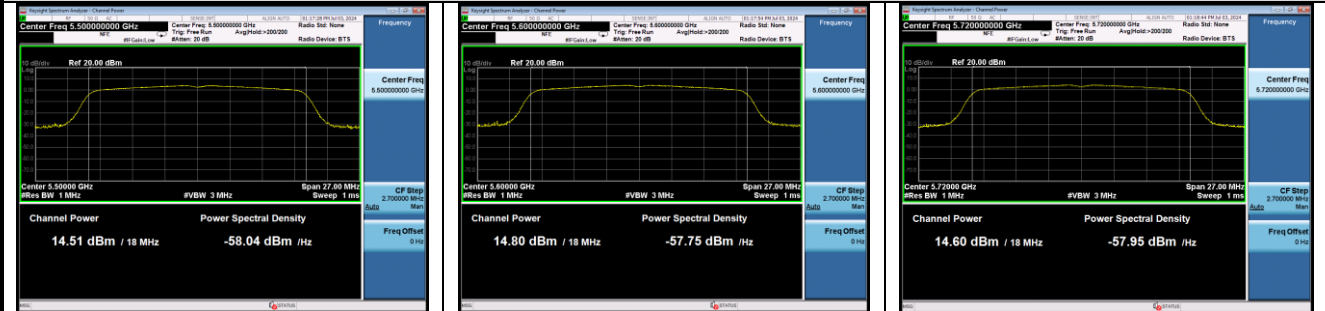


U-NII-2C Band

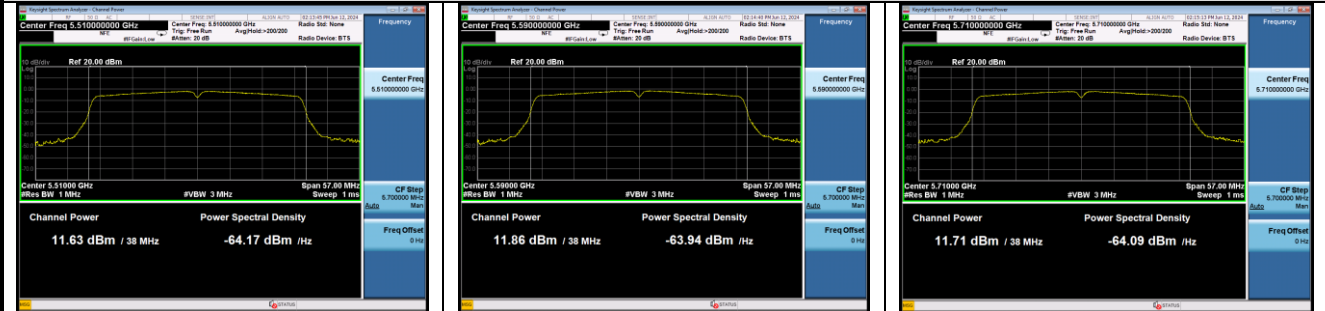
IEEE 802.11a



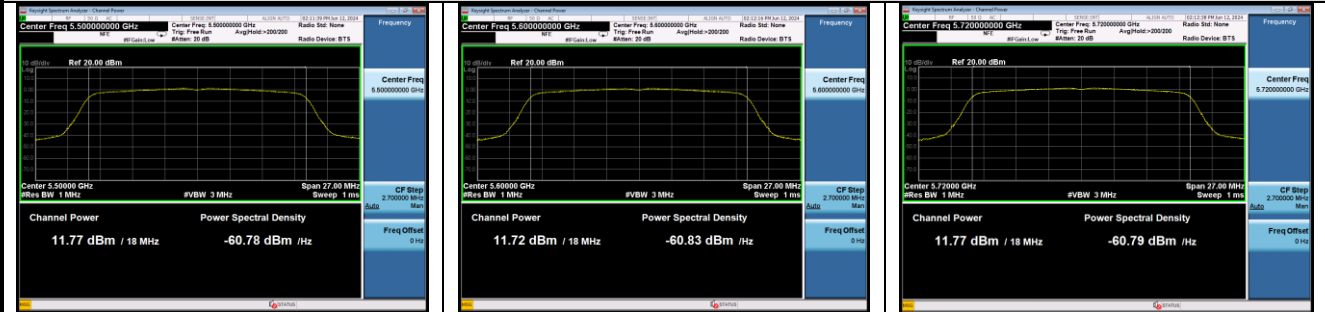
IEEE 802.11n HT20

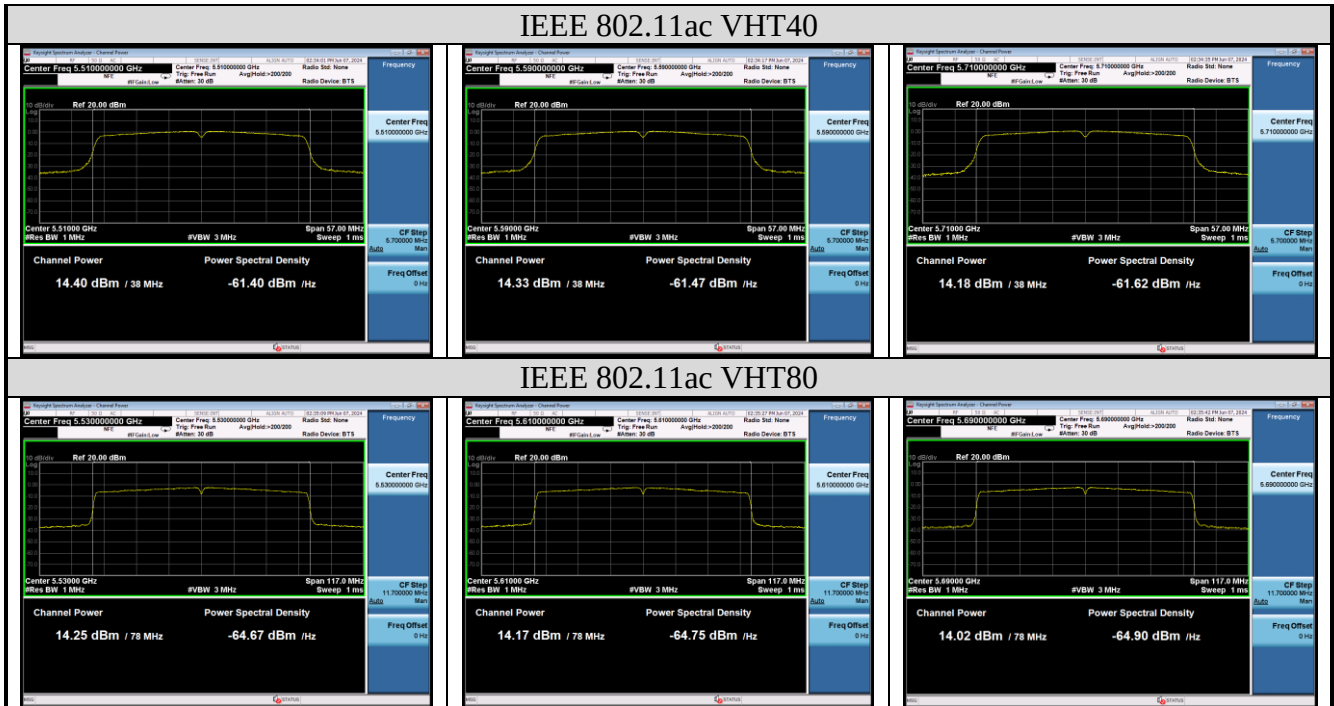


IEEE 802.11n HT40



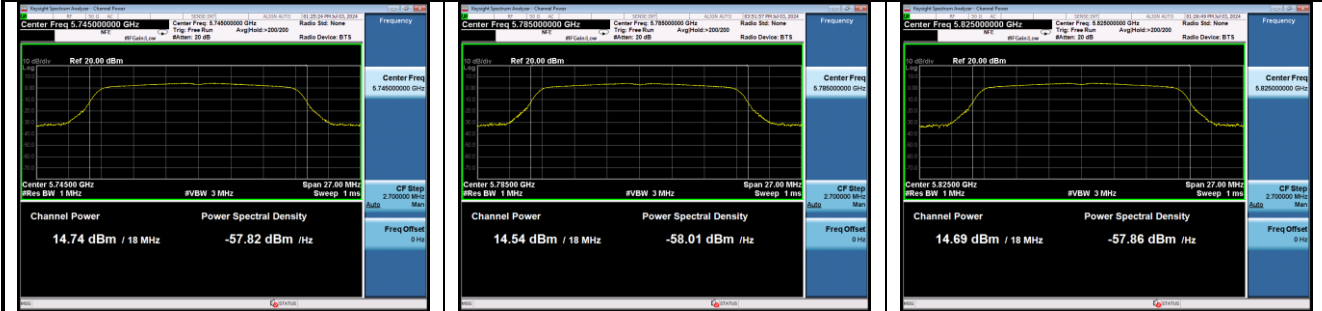
IEEE 802.11ac VHT20



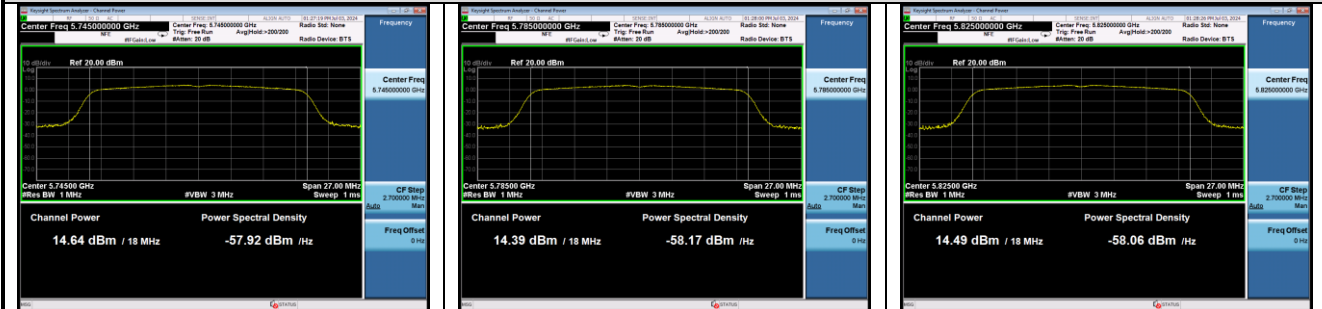


U-NII-3 Band

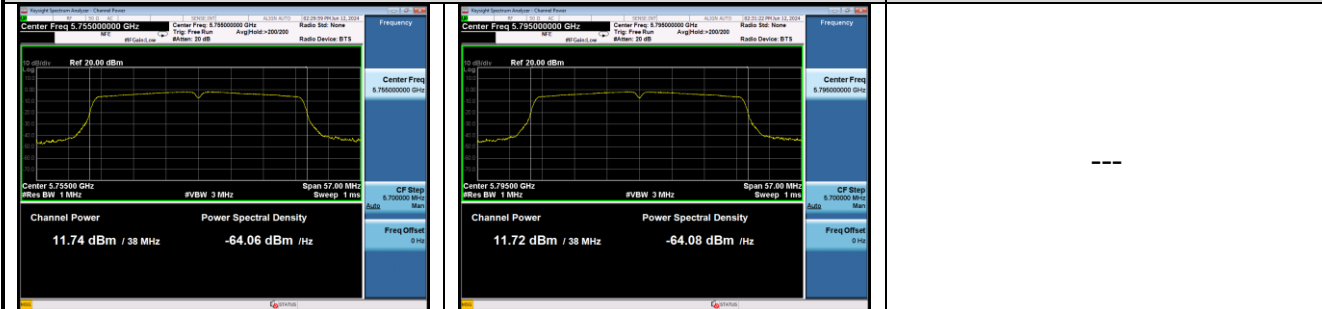
IEEE 802.11a



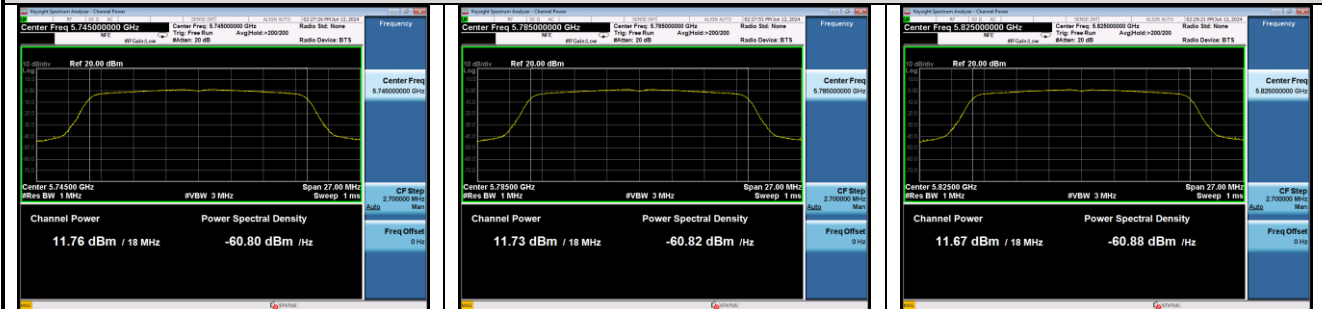
IEEE 802.11n HT20



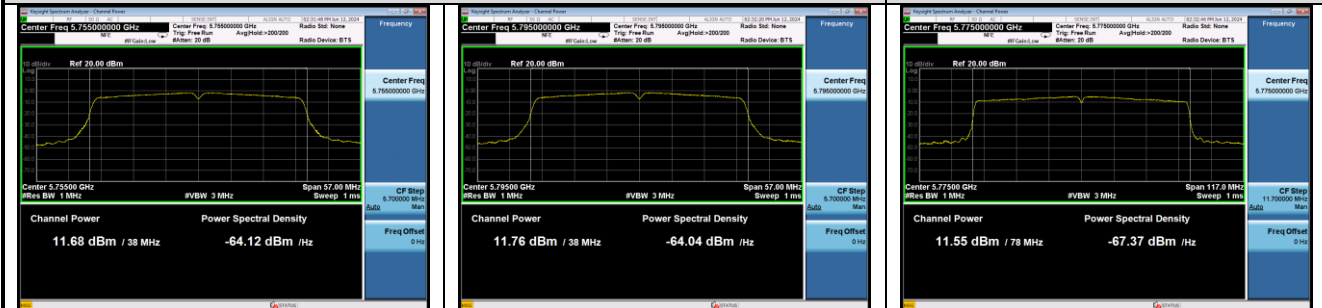
IEEE 802.11n HT40



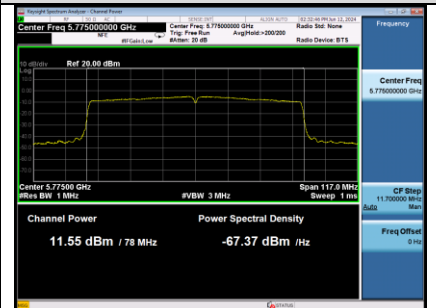
IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80



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.

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.

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

8.3.Test Results

U-NII-1 Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-12~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: lili	Test site: RF site	Temperature: 22.3±0.6℃

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
11a	5180	4.238	11
	5200	4.436	
	5240	4.871	
11n HT20	5180	3.753	11
	5200	3.854	
	5240	4.343	
11n HT40	5190	-1.727	11
	5230	-1.586	
11ac VHT20	5180	1.294	11
	5200	1.719	
	5240	1.770	
11ac VHT40	5190	0.309	11
	5230	0.380	
11ac VHT80	5210	-2.944	11
Conclusion:Pass			

FCC ID: 2ACCJB224

U-NII-2A Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-12~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: lili	Test site: RF site	Temperature: 22.3±0.6°C

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
11a	5260	4.424	11
	5300	4.656	
	5320	4.464	
11n HT20	5260	3.972	11
	5300	4.194	
	5320	4.205	
11n HT40	5270	-1.309	11
	5310	-1.437	
11ac VHT20	5260	1.574	11
	5300	1.864	
	5320	1.647	
11ac VHT40	5270	-1.468	11
	5310	-1.375	
11ac VHT80	5290	-4.982	11
Conclusion:Pass			

U-NII-2C Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-12~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: lili	Test site: RF site	Temperature: 22.3±0.6°C

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
11a	5500	4.534	11
	5600	5.195	
	5720	4.568	
11n HT20	5500	4.188	11
	5600	4.680	
	5720	4.557	
11n HT40	5510	-1.653	11
	5590	-1.619	
	5710	-1.662	
11ac VHT20	5500	1.576	11
	5600	1.742	
	5720	1.376	
11ac VHT40	5510	0.620	11
	5590	0.553	
	5710	0.414	
11ac VHT80	5530	-2.370	11
	5610	-2.372	
	5690	-2.377	
Conclusion:Pass			

FCC ID: 2ACCJB224

U-NII-3 Band:

EUT: Tablet PC		
M/N: 8188G		
Test date: 2024-06-12~07-03	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: lili	Test site: RF site	Temperature: 22.3±0.6℃

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)
11a	5745	3.13	30
	5785	2.53	
	5825	3.03	
11n HT20	5745	2.65	30
	5785	2.11	
	5825	2.36	
11n HT40	5755	-3.73	30
	5795	-3.62	
11ac VHT20	5745	-0.63	30
	5785	-0.66	
	5825	-0.24	
11ac VHT40	5755	-3.66	30
	5795	-3.26	
11ac VHT80	5775	-6.64	30
Conclusion:Pass			