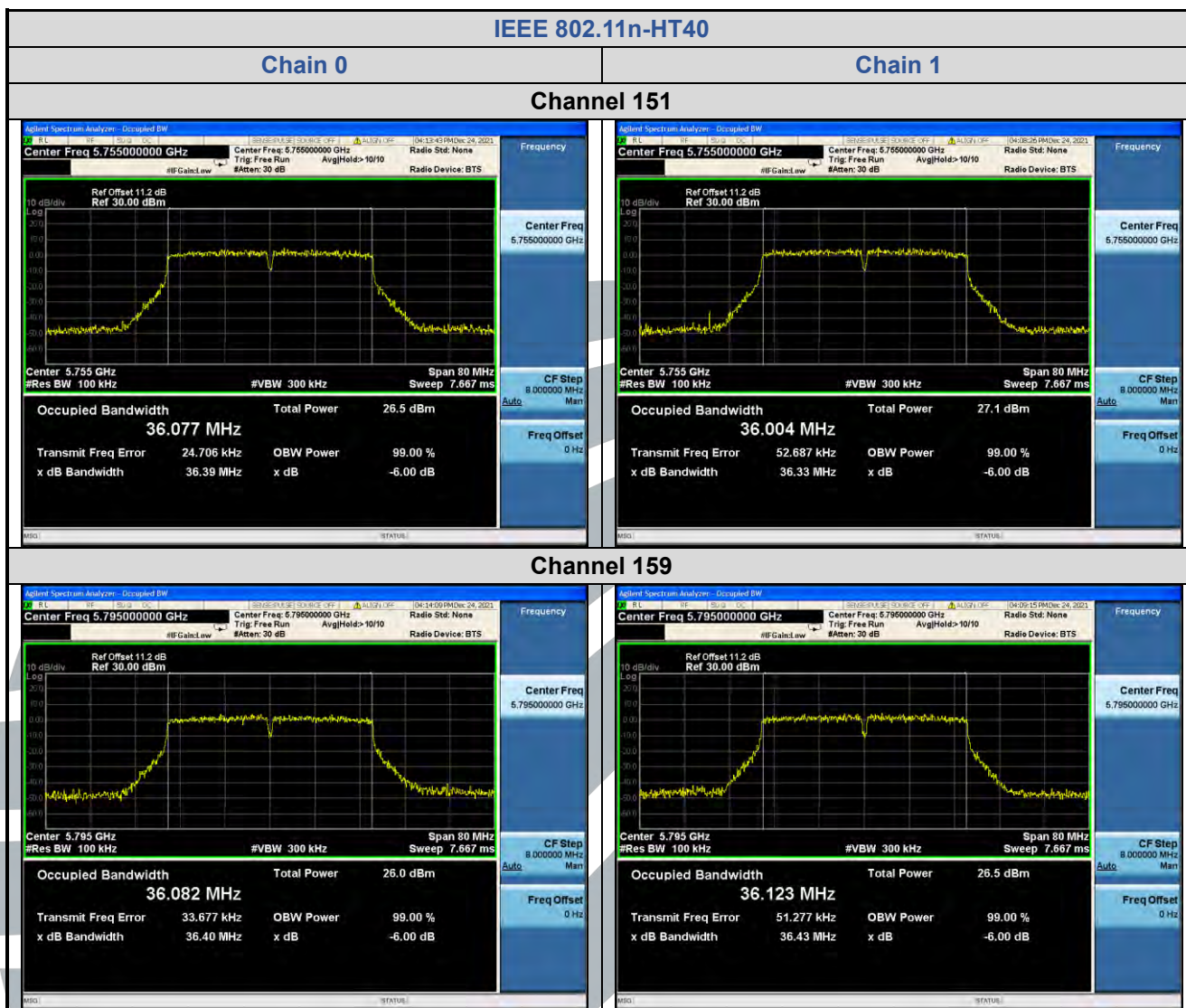
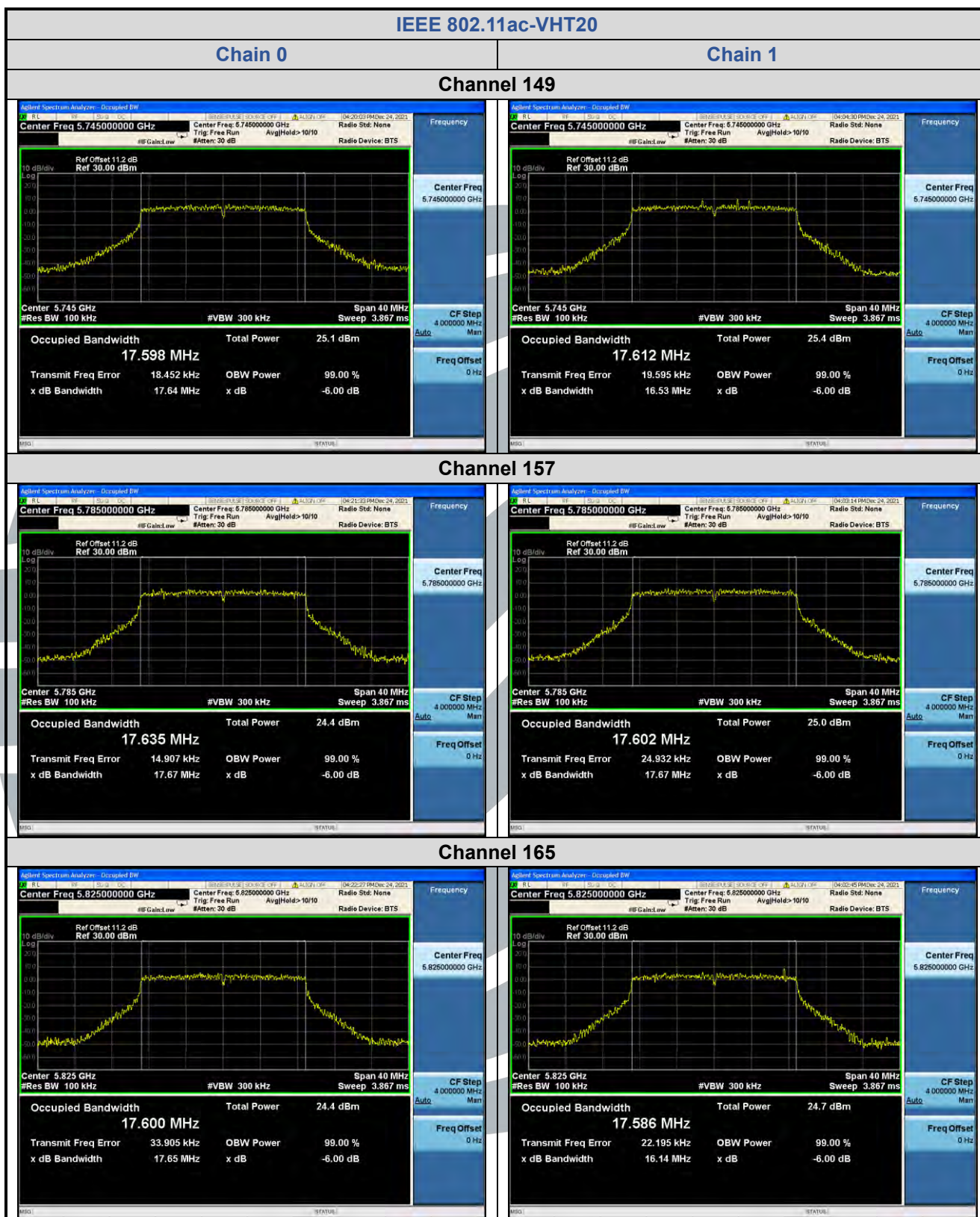
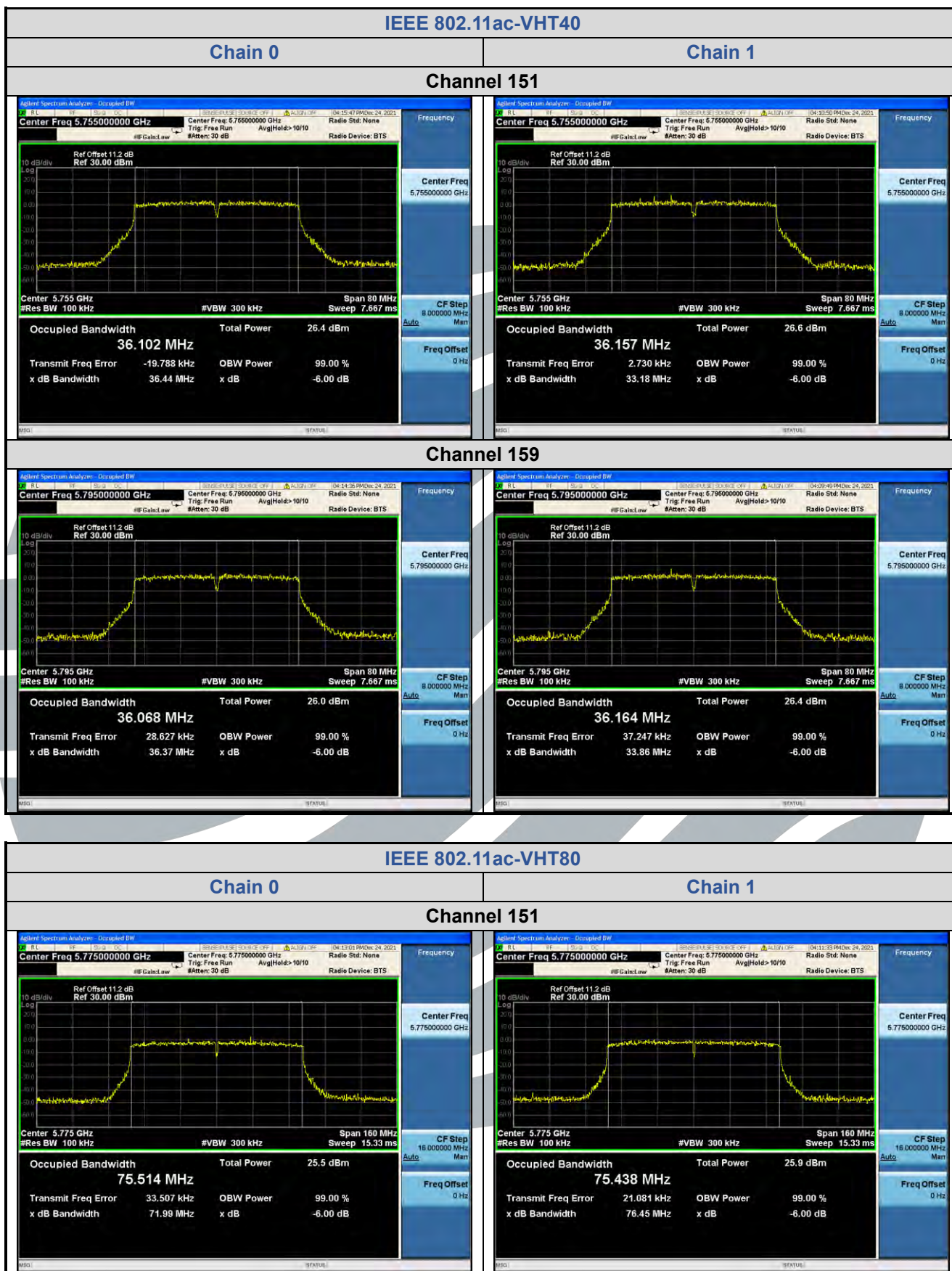
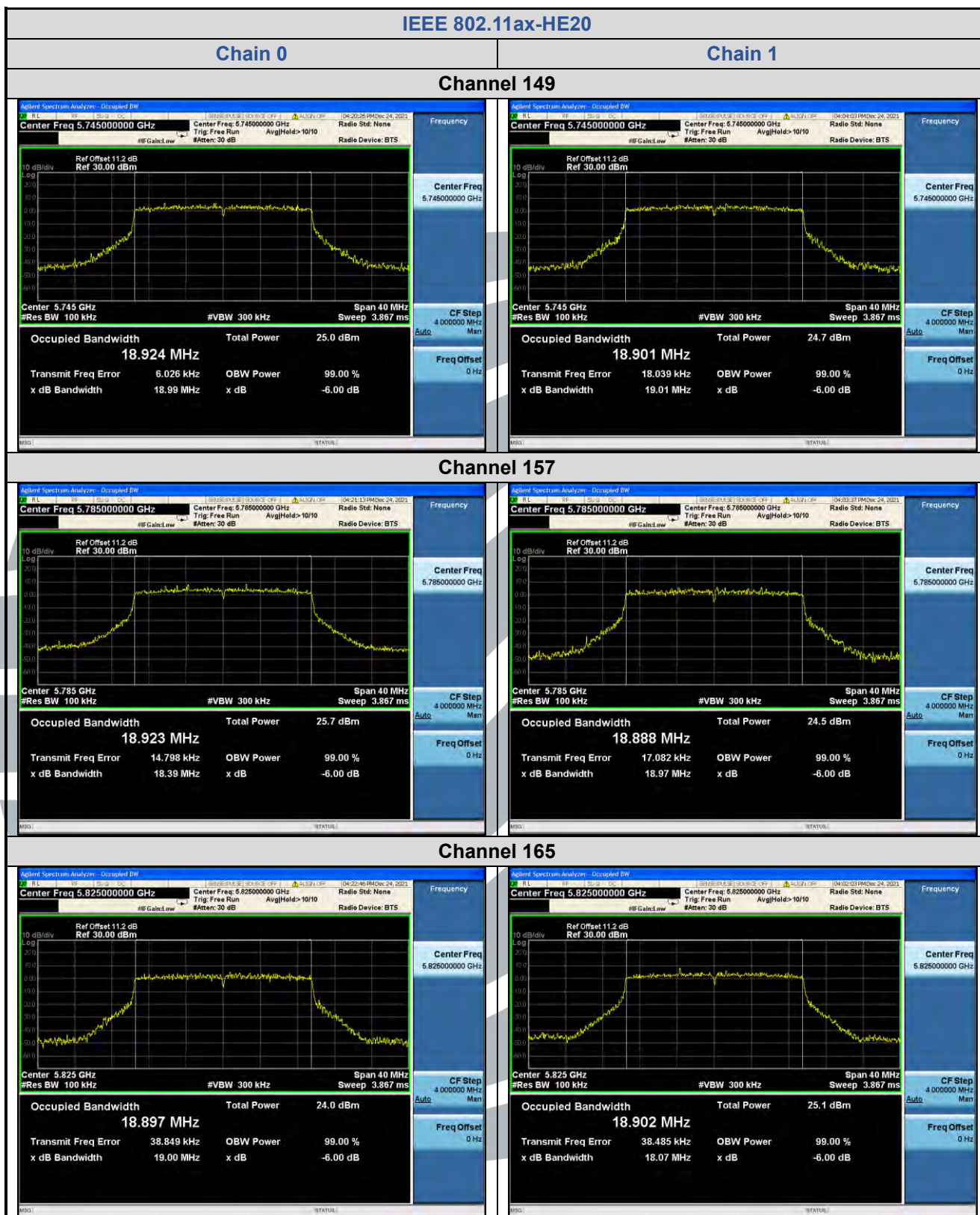
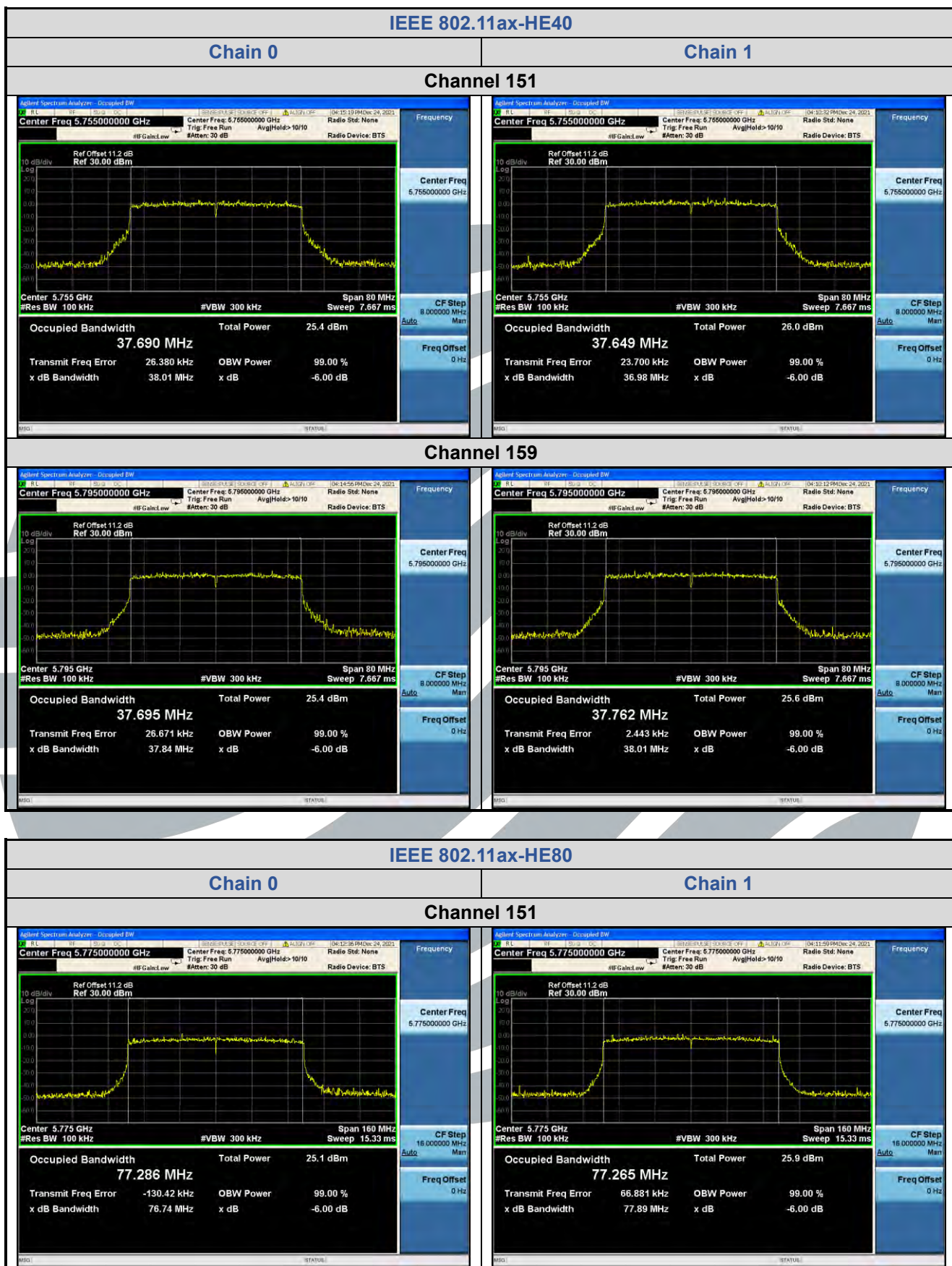






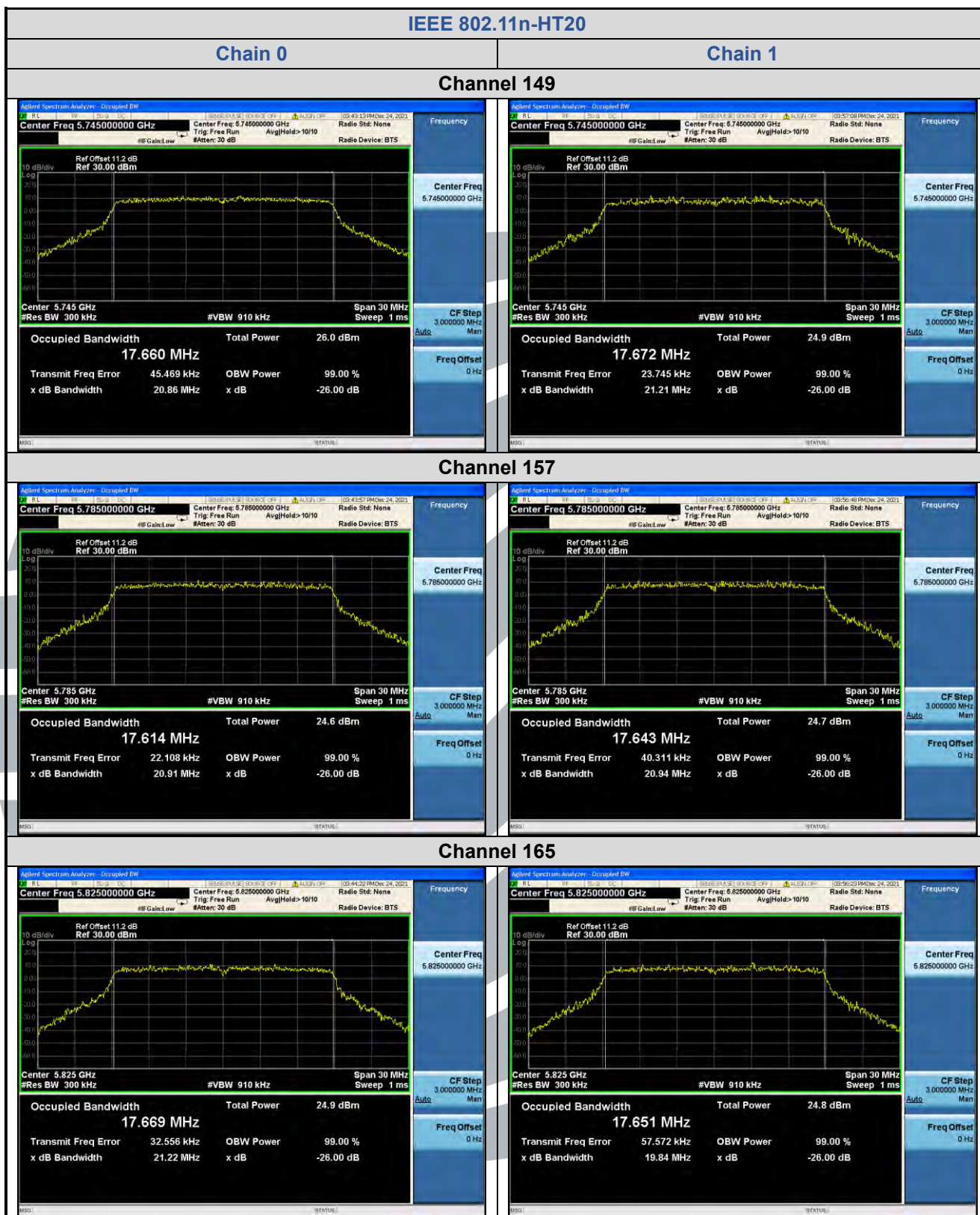


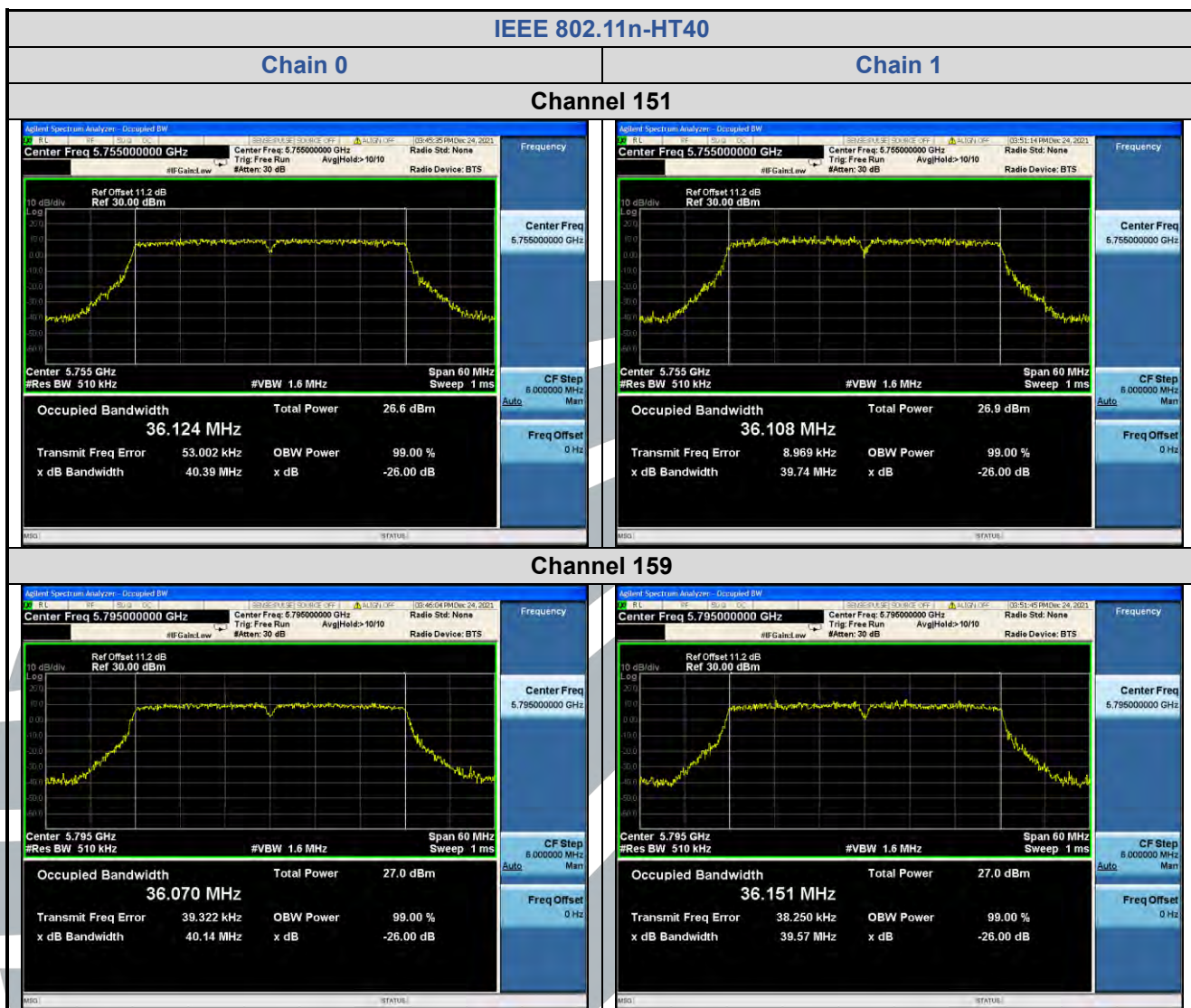




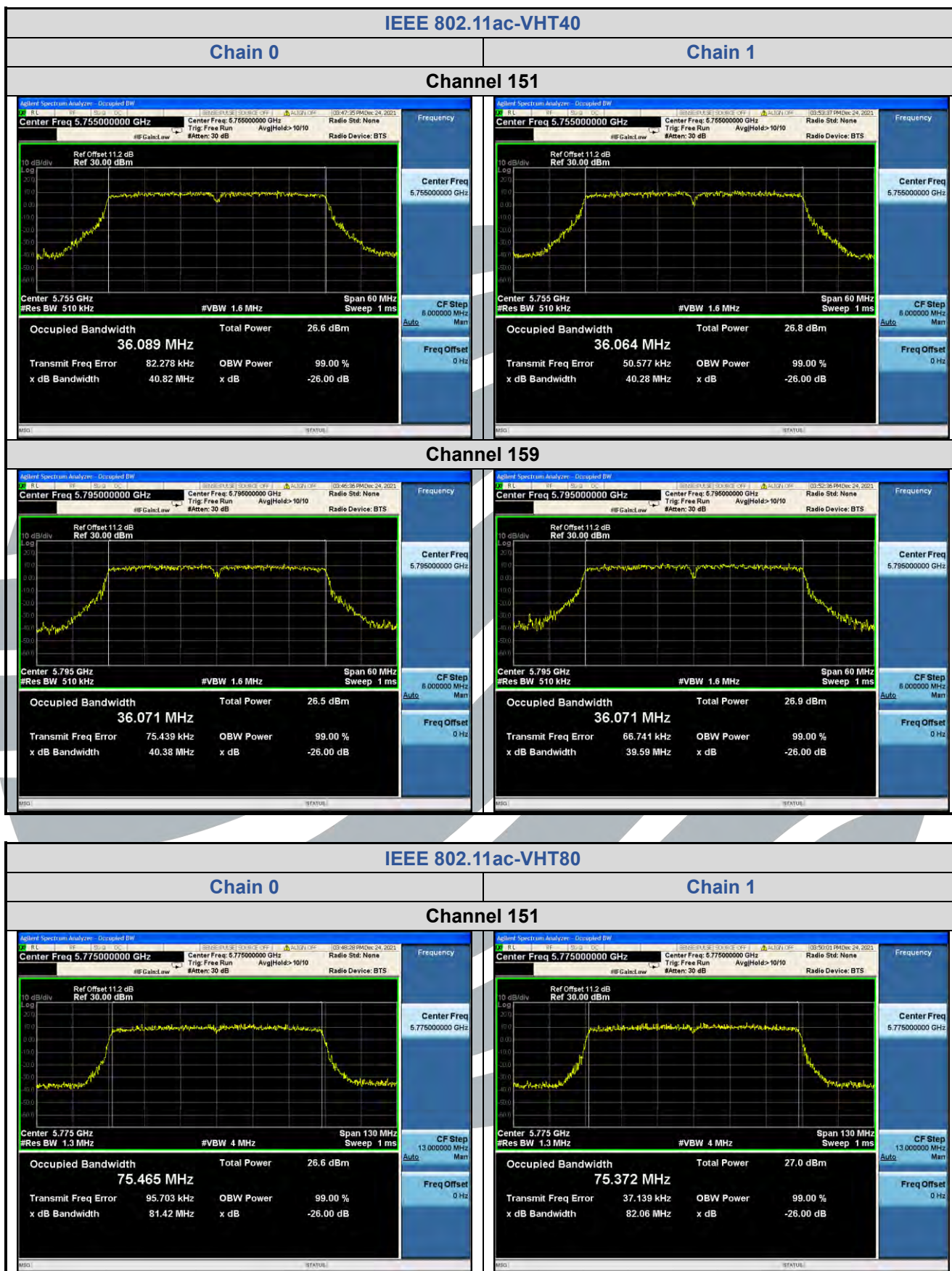
Occupied Bandwidth

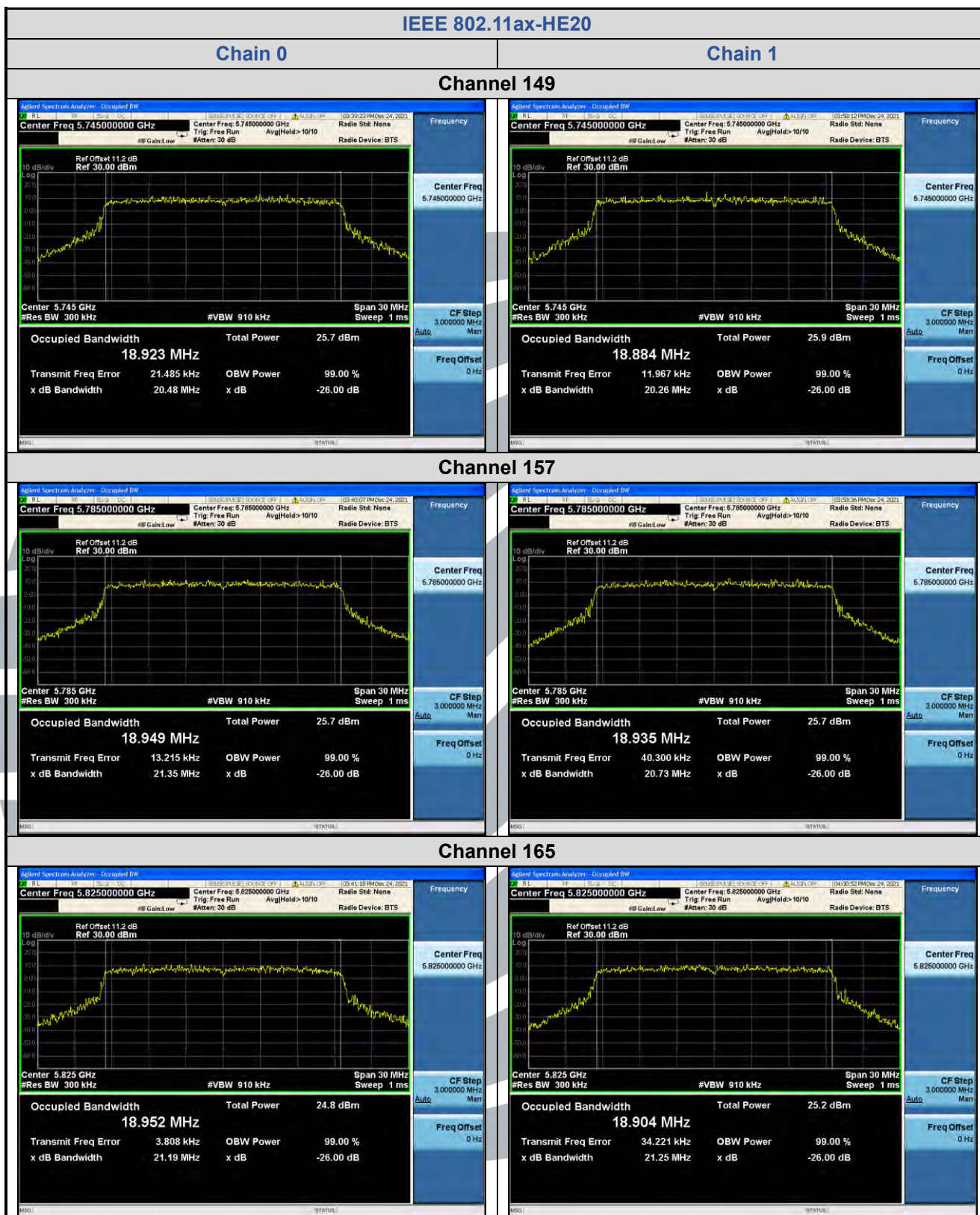


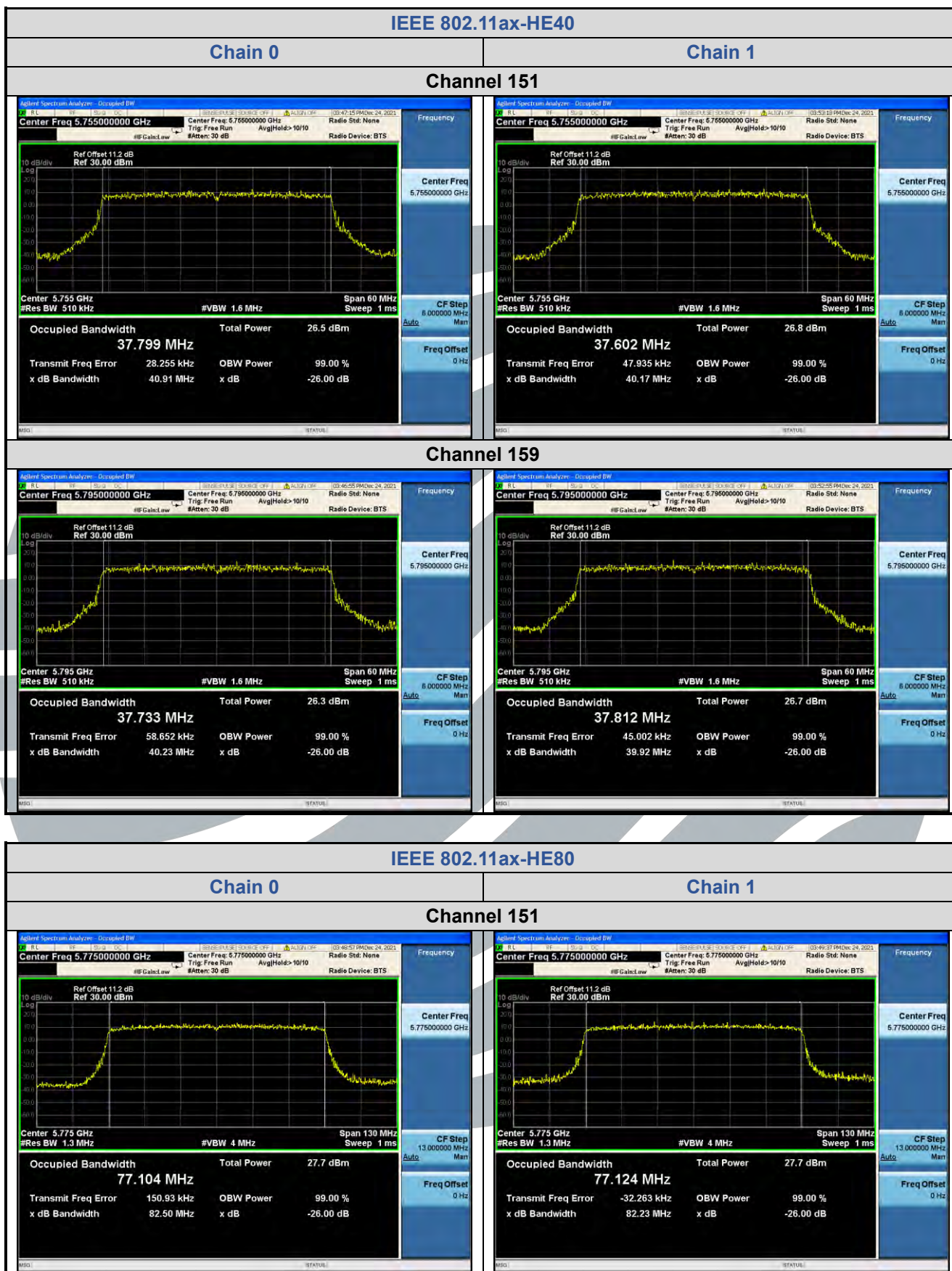












5.5 MAXIMUM CONDUCTED OUTPUT POWER OR E.I.R.P

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)
RSS-247 Issue 2 Section 6.2.1.1/6.2.2.1/6.2.3.1/6.2.4.1

Test Method: KDB 789033 D02 v02r01 Section E.3.a (Method PM)

Limits: FCC 47 CFR Part 15 Subpart E

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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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

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directional antennas are used exclusively for fixed, point-to-point operations.

Limits: RSS-247 Issue 2

1. Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

2. Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Additional requirements

In addition to the above requirements, devices shall comply with the following, where applicable:

- a) Outdoor fixed devices with a maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:

i. -13 dBW/MHz	for $0^\circ \leq \theta < 8^\circ$
ii. $-13 - 0.716 (\theta - 8)$ dBW/MHz	for $8^\circ \leq \theta < 40^\circ$
iii. $-35.9 - 1.22 (\theta - 40)$ dBW/MHz	for $40^\circ \leq \theta \leq 45^\circ$
iv. -42 dBW/MHz	for $\theta > 45^\circ$

The measurement procedure defined in Annex A of this document shall be used to verify the compliance to the e.i.r.p. at different elevations.

- b) Devices, other than outdoor fixed devices, having an e.i.r.p. greater than 200 mW shall comply with either i. or ii. below:
 - i. devices shall comply with the e.i.r.p. elevation mask in 6.2.2.3(a); or
 - ii. devices shall implement a method to permanently reduce their e.i.r.p. via a firmware feature in the event that the Department requires it. The test report must demonstrate how the device's power table can be updated to meet this firmware requirement. The manufacturer shall provide this firmware to update all systems automatically in compliance with the directions received from the Department.

3. Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

4. Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. The output 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 output power spectral density shall be reduced by the

amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.
2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.

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

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Directional gain and the maximum output power limit.

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Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	Peak Power Limits (dBm)
U-NII-1	5.0	4.5	7.76	21.24
U-NII-2A	5.0	4.5	7.76	22.24
U-NII-2C	5.0	4.5	7.76	22.24
U-NII-3	5.0	4.5	7.76	28.24

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels

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Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	Peak Power Limits (dBm)
U-NII-1	5.0	4.5	7.76	28.24
U-NII-2A	5.0	4.5	7.76	22.24
U-NII-2C	5.0	4.5	7.76	22.24
U-NII-3	5.0	4.5	7.76	28.24

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels

Frequency band 5150-5250 MHz

RSS-247 Issue 2:

For IEEE 802.11 a, the minimum 99% emission bandwidth is 16.415 MHz

$$10 \text{ dBm} + 10\log_{10}(16.415) = 22.15 \text{ dBm} < 23 \text{ dBm}$$

So the 22.15 dB limit applicable

For IEEE 802.11 n-HT20/ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 17.620 MHz

$$10 \text{ dBm} + 10\log_{10}(17.620) = 22.46 \text{ dBm} > 21.24 \text{ dBm}$$

So the 21.24 dB limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.059 MHz

$$10 \text{ dBm} + 10\log_{10}(36.059) = 25.57 \text{ dBm} > 21.24 \text{ dBm}$$

So the 21.24 dB limit applicable

Mode	Channel/ Frequency (MHz)	Maximum e.i.r.p (dBm)		Total e.i.r.p MIMO_ Chain 0+1 (dBm)	Limit (dBm)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	36 (5180)	19.24	18.94	N/A	22.15	Pass
	44 (5220)	19.53	18.79	N/A	22.15	Pass
	48 (5240)	19.32	19.62	N/A	22.15	Pass
IEEE 802.11n-HT20	36 (5180)	17.45	16.80	20.15	21.24	Pass
	44 (5220)	18.04	16.81	20.48	21.24	Pass
	48 (5240)	17.82	16.35	20.16	21.24	Pass
IEEE 802.11n-HT40	38 (5190)	17.58	16.35	20.02	21.24	Pass
	46 (5230)	18.33	17.15	20.79	21.24	Pass
IEEE 802.11ac-VHT20	36 (5180)	17.32	16.54	19.95	21.24	Pass
	44 (5220)	18.01	16.88	20.49	21.24	Pass
	48 (5240)	17.76	17.38	20.58	21.24	Pass
IEEE 802.11ac-VHT40	38 (5190)	17.41	16.32	19.91	21.24	Pass
	46 (5230)	18.17	17.05	20.66	21.24	Pass
IEEE 802.11ac-VHT80	42 (5210)	18.67	16.99	20.93	21.24	Pass
IEEE 802.11ax-HE20	36 (5180)	17.15	16.29	19.75	21.24	Pass
	44 (5220)	17.86	16.63	20.29	21.24	Pass
	48 (5240)	17.52	17.15	20.34	21.24	Pass
IEEE 802.11ax-HE40	38 (5190)	18.22	16.97	20.65	21.24	Pass
	46 (5230)	17.83	17.90	20.88	21.24	Pass
IEEE 802.11ax-HE80	42 (5210)	17.34	15.85	19.67	21.24	Pass
Remark:						
1. Maximum e.i.r.p = Maximum conducted output power + Antenna Gain						
2. Total e.i.r.p (Chain 0+1) = 10*log[(10 ^{Chain 0/10})+(10 ^{Chain 1/10})] + Directional gain						

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Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Total Power MIMO_ Chain 0+1 (dBm)	Limit (dBm)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	36 (5180)	21.56	21.50	N/A	30	Pass
	44 (5220)	22.72	22.40	N/A	30	Pass
	48 (5240)	22.12	22.22	N/A	30	Pass
IEEE 802.11n-HT20	36 (5180)	16.40	16.37	19.40	28.24	Pass
	44 (5220)	21.71	21.44	24.59	28.24	Pass
	48 (5240)	16.94	17.25	20.11	28.24	Pass
IEEE 802.11n-HT40	38 (5190)	14.83	13.91	17.41	28.24	Pass
	46 (5230)	23.91	23.28	26.62	28.24	Pass
IEEE 802.11ac-VHT20	36 (5180)	16.70	15.97	19.36	28.24	Pass
	44 (5220)	21.98	21.32	24.67	28.24	Pass
	48 (5240)	17.23	16.72	19.99	28.24	Pass
IEEE 802.11ac-VHT40	38 (5190)	14.77	13.77	17.31	28.24	Pass
	46 (5230)	23.82	23.40	26.63	28.24	Pass
IEEE 802.11ac-VHT80	42 (5210)	12.59	11.44	15.07	28.24	Pass
IEEE 802.11ax-HE20	36 (5180)	16.63	15.76	19.22	28.24	Pass
	44 (5220)	21.92	21.11	24.54	28.24	Pass
	48 (5240)	16.91	16.91	19.92	28.24	Pass
IEEE 802.11ax-HE40	38 (5190)	14.85	13.52	17.25	28.24	Pass
	46 (5230)	23.37	21.94	25.73	28.24	Pass
IEEE 802.11ax-HE80	42 (5210)	12.34	11.35	14.89	28.24	Pass
Remark: 1. Maximum conducted output power = Conducted output power + Duty Cycle Factor 2. Total Power (Chain 0+1) = 10*log[(10 ^{Chain 0/10})+(10 ^{Chain 1/10})]						

Frequency band 5250-5350 MHz

RSS-247 Issue 2:

For IEEE 802.11 a/n-HT20/ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 16.409 MHz

$$11 \text{ dBm} + 10\log_{10}(16.609) = 23.15 \text{ dBm}$$

$$22.24 \text{ dBm} < 23.15 \text{ dBm} < 24 \text{ dBm}$$

So the 22.24 dB limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.035 MHz

$$11 \text{ dBm} + 10\log_{10}(36.035) = 26.57 \text{ dBm} > 22.24 \text{ dBm} (200\text{mW})$$

So the 22.24 dB limit applicable

FCC 47 CFR Part 15 Subpart E:

For IEEE 802.11 a/n/ac/ax, the minimum 26 dB emission bandwidth is 19.64 MHz

$$11 \text{ dBm} + 10\log_{10}(19.64) = 23.93 \text{ dBm} > 22.24 \text{ dBm}$$

So the 22.24 dB limit applicable

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Total Power MIMO_ Chain 0+1 (dBm)	Limit (dBm)		Pass / Fail
		SISO			FCC Part 15E	RSS-247	
		Chain 0	Chain 1				
IEEE 802.11a	52 (5260)	21.88	21.88	N/A	22.24	22.24	Pass
	60 (5300)	20.95	21.11	N/A	22.24	22.24	Pass
	64 (5320)	22.03	21.93	N/A	22.24	22.24	Pass
IEEE 802.11n-HT20	52 (5260)	16.83	17.03	19.95	22.24	22.24	Pass
	60 (5300)	17.01	17.11	20.07	22.24	22.24	Pass
	64 (5320)	17.03	17.06	20.06	22.24	22.24	Pass
IEEE 802.11n-HT40	54 (5270)	18.27	18.46	21.38	22.24	22.24	Pass
	62 (5310)	14.84	14.50	17.68	22.24	22.24	Pass
IEEE 802.11ac-VHT20	52 (5260)	16.54	16.90	19.73	22.24	22.24	Pass
	60 (5300)	16.91	17.02	19.97	22.24	22.24	Pass
	64 (5320)	17.78	16.93	20.38	22.24	22.24	Pass
IEEE 802.11ac-VHT40	54 (5270)	18.21	18.47	21.35	22.24	22.24	Pass
	62 (5310)	14.80	14.37	17.60	22.24	22.24	Pass
IEEE 802.11ac-VHT80	58 (5290)	11.24	10.94	14.11	22.24	22.24	Pass
IEEE 802.11ax-HE20	52 (5260)	16.39	16.76	19.58	22.24	22.24	Pass
	60 (5300)	16.72	16.76	19.75	22.24	22.24	Pass
	64 (5320)	16.51	16.77	19.65	22.24	22.24	Pass
IEEE 802.11ax-HE40	54 (5270)	17.75	17.99	20.88	22.24	22.24	Pass
	62 (5310)	14.39	13.80	17.12	22.24	22.24	Pass
IEEE 802.11ax-HE80	58 (5290)	11.12	10.81	13.98	22.24	22.24	Pass

Remark:

- Maximum conducted output power = Conducted output power + Duty Cycle Factor
- Total Power (Chain 0+1) = $10 \cdot \log_{10}[(10^{\text{Chain 0}/10}) + (10^{\text{Chain 1}/10})]$

Frequency bands 5470-5725 MHz (RSS-247 Issue 2 Not including 5600-5650 MHz)
RSS-247 Issue 2:

For IEEE 802.11 a/n-HT20/ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 16.412 MHz

$$11 \text{ dBm} + 10\log_{10}(16.412) = 23.15 \text{ dBm}$$

$$22.24 < 23.15 \text{ dBm} < 24 \text{ dBm}$$

So the 22.24 dB limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.048 MHz

$$11 \text{ dBm} + 10\log_{10}(36.048) = 26.57 \text{ dBm} > 22.24 \text{ dBm}$$

So the 22.24 dB limit applicable

FCC 47 CFR Part 15 Subpart E:

For IEEE 802.11 a/n/ac/ax, the minimum 26 dB emission bandwidth is 19.76 MHz

$$11 \text{ dBm} + 10\log_{10}(19.76) = 23.96 \text{ dBm} < 22.24 \text{ dBm}$$

So the 22.24 dB limit applicable

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Total Power MIMO_ Chain 0+1 (dBm)	Limit (dBm)		Pass / Fail
		SISO			FCC Part 15E	RSS-247	
		Chain 0	Chain 1				
IEEE 802.11a	100 (5500)	20.86	20.91	N/A	22.24	22.24	Pass
	116 (5580)	20.42	20.02	N/A	22.24	22.24	Pass
	140 (5700)	21.12	21.57	N/A	22.24	22.24	Pass
IEEE 802.11n-HT20	100 (5500)	15.93	16.02	18.99	22.24	22.24	Pass
	116 (5580)	16.76	16.61	19.70	22.24	22.24	Pass
	140 (5700)	16.18	16.67	19.45	22.24	22.24	Pass
IEEE 802.11n-HT40	102 (5510)	13.81	14.04	16.94	22.24	22.24	Pass
	110 (5550)	19.37	18.51	21.97	22.24	22.24	Pass
	134 (5670)	12.79	13.04	15.93	22.24	22.24	Pass
IEEE 802.11ac-VHT20	100 (5500)	15.71	15.91	18.82	22.24	22.24	Pass
	116 (5580)	16.68	16.60	19.65	22.24	22.24	Pass
	140 (5700)	16.57	16.64	19.61	22.24	22.24	Pass
IEEE 802.11ac-VHT40	102 (5510)	13.47	13.24	16.37	22.24	22.24	Pass
	110 (5550)	19.40	18.61	22.03	22.24	22.24	Pass
	134 (5670)	13.37	12.94	16.17	22.24	22.24	Pass
IEEE 802.11ac-VHT80	106 (5530)	14.56	13.40	17.03	22.24	22.24	Pass
IEEE 802.11ax-HE20	100 (5500)	15.60	15.71	18.66	22.24	22.24	Pass
	116 (5580)	16.52	16.33	19.43	22.24	22.24	Pass
	140 (5700)	16.43	16.45	19.45	22.24	22.24	Pass
IEEE 802.11ax-HE40	102 (5510)	12.96	12.85	15.92	22.24	22.24	Pass
	110 (5550)	18.94	18.07	21.54	22.24	22.24	Pass
	134 (5670)	12.89	12.45	15.69	22.24	22.24	Pass
IEEE 802.11ax-HE80	106 (5530)	14.38	13.25	16.87	22.24	22.24	Pass

Remark:

- Maximum conducted output power = Conducted output power + Duty Cycle Factor
- Total Power (Chain 0+1) = $10 \cdot \log_{10}[(10^{\text{Chain 0}/10}) + (10^{\text{Chain 1}/10})]$

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UTTR-RF-RSS247-V1.1

Frequency band 5725-5850 MHz

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Total Power MIMO_ Chain 0+1 (dBm)	Limit (dBm)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	149 (5745)	21.47	21.36	N/A	30	Pass
	157 (5785)	20.98	21.42	N/A	30	Pass
	165 (5825)	21.10	21.26	N/A	30	Pass
IEEE 802.11n-HT20	149 (5745)	20.18	20.09	23.15	28.24	Pass
	157 (5785)	19.63	19.66	22.66	28.24	Pass
	165 (5825)	19.97	20.06	23.03	28.24	Pass
IEEE 802.11n-HT40	151 (5755)	20.84	20.90	23.88	28.24	Pass
	159 (5795)	20.74	20.83	23.80	28.24	Pass
IEEE 802.11ac-VHT20	149 (5745)	19.31	20.06	22.71	28.24	Pass
	157 (5785)	19.15	19.75	22.47	28.24	Pass
	165 (5825)	19.20	19.95	22.60	28.24	Pass
IEEE 802.11ac-VHT40	151 (5755)	20.78	20.84	23.82	28.24	Pass
	159 (5795)	20.64	20.78	23.72	28.24	Pass
IEEE 802.11ac-VHT80	155 (5775)	20.92	21.04	24.00	28.24	Pass
IEEE 802.11ax-HE20	149 (5745)	19.15	19.96	22.58	28.24	Pass
	157 (5785)	19.00	19.60	22.32	28.24	Pass
	165 (5825)	19.03	19.92	22.50	28.24	Pass
IEEE 802.11ax-HE40	151 (5755)	20.30	20.38	23.35	28.24	Pass
	159 (5795)	20.22	20.31	23.28	28.24	Pass
IEEE 802.11ax-HE80	155 (5775)	20.75	20.89	23.84	28.24	Pass
Remark: 1. Maximum conducted output power = Conducted output power + Duty Cycle Factor 2. Total Power(Chain 0+1) = 10*log[(10 ^{Chain 0/10})+(10 ^{Chain 1/10})]						

5.6 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)
RSS-247 Issue 2 Section 6.2.1.1/6.2.2.1/6.2.3.1/6.2.4.1

Test Method: KDB 789033 D02 v02r01 Section F

Limits: FCC 47 CFR Part 15 Subpart E

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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

Limits: RSS-247 Issue 2

1. Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

2. Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less, B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Additional requirements

In addition to the above requirements, devices shall comply with the following, where applicable:

- a) Outdoor fixed devices with a maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:

i. -13 dBW/MHz	for $0^\circ \leq \theta < 8^\circ$
ii. $-13 - 0.716 (\theta - 8)$ dBW/MHz	for $8^\circ \leq \theta < 40^\circ$
iii. $-35.9 - 1.22 (\theta - 40)$ dBW/MHz	for $40^\circ \leq \theta \leq 45^\circ$
iv. -42 dBW/MHz	for $\theta > 45^\circ$

The measurement procedure defined in Annex A of this document shall be used to verify the compliance to the e.i.r.p. at different elevations.

- b) Devices, other than outdoor fixed devices, having an e.i.r.p. greater than 200 mW shall comply with either i. or ii. below:
 - iii. devices shall comply with the e.i.r.p. elevation mask in 6.2.2.3(a); or
 - iv. devices shall implement a method to permanently reduce their e.i.r.p. via a firmware feature in the event that the Department requires it. The test report must demonstrate how the device's power table can be updated to meet this firmware requirement. The manufacturer shall provide this firmware to update all systems automatically in compliance with the directions received from the Department.

3. Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

4. Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. The output 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 output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices

operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

1. For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

a) Set span to encompass the entire emission bandwidth (EBW) of the signal.

b) Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS

c) Sweep time = auto, trigger set to "free run".

d) Trace average at least 100 traces in power averaging mode.

e) Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

a) Set span to encompass the entire emission bandwidth (EBW) of the signal.

b) Set RBW = 500 kHz, Set VBW ≥ 3 RBW, Detector = RMS

c) Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.

d) Sweep time = auto, trigger set to "free run".

e) Trace average at least 100 traces in power averaging mode.

f) Record the max value and add 10 log (1/duty cycle)

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

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Directional gain and the maximum output power limit.

RSS-247 Issue 2:

Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	5.0	4.5	7.76	8.24
U-NII-2A	5.0	4.5	7.76	9.24
U-NII-2C	5.0	4.5	7.76	9.24
U-NII-3	5.0	4.5	7.76	28.24

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/10}/20 + 10^{G_2/10}/20 + \dots + 10^{G_N/10}/20)^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels

FCC 47 CFR Part 15 Subpart E:

Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	5.0	4.5	7.76	15.24
U-NII-2A	5.0	4.5	7.76	9.24
U-NII-2C	5.0	4.5	7.76	9.24
U-NII-3	5.0	4.5	7.76	28.24

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})^2 / N]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels

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UTTR-RF-RSS247-V1.1

Frequency band 5150-5250 MHz
RSS-247 Issue 2

Mode	Channel/ Frequency (MHz)	e.i.r.p. spectral density (dBm/MHz)		Total e.i.r.p. spectral density MIMO_Chain 0+1 (dBm/MHz)	Limit (dBm/MHz)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	36 (5180)	8.757	8.37	N/A	10	Pass
	44 (5220)	8.914	8.285	N/A	10	Pass
	48 (5240)	8.411	8.948	N/A	10	Pass
IEEE 802.11n-HT20	36 (5180)	4.479	4.096	7.302	8.24	Pass
	44 (5220)	4.877	3.872	7.414	8.24	Pass
	48 (5240)	4.805	4.673	7.750	8.24	Pass
IEEE 802.11n-HT40	38 (5190)	2.281	1.61	4.969	8.24	Pass
	46 (5230)	2.535	1.599	5.102	8.24	Pass
IEEE 802.11ac-VHT20	36 (5180)	3.32	4.224	6.806	8.24	Pass
	44 (5220)	3.774	3.85	6.822	8.24	Pass
	48 (5240)	3.533	4.687	7.159	8.24	Pass
IEEE 802.11ac-VHT40	38 (5190)	0.926	1.604	4.289	8.24	Pass
	46 (5230)	2.386	1.612	5.027	8.24	Pass
IEEE 802.11ac-VHT80	42 (5210)	-1.308	-2.546	1.127	8.24	Pass
IEEE 802.11ax-HE20	36 (5180)	4.358	3.968	7.178	8.24	Pass
	44 (5220)	4.382	3.504	6.975	8.24	Pass
	48 (5240)	4.425	4.419	7.432	8.24	Pass
IEEE 802.11ax-HE40	38 (5190)	2.428	2.09	5.273	8.24	Pass
	46 (5230)	2.711	2.239	5.492	8.24	Pass
IEEE 802.11ax-HE80	42 (5210)	-0.364	-1.316	2.196	8.24	Pass

Remark:

1. e.i.r.p. spectral density = Power spectral density + Duty Cycle Factor + Antenna Gain
2. Total e.i.r.p. spectral density (Chain 0+1) = $10 \cdot \log[(10^{\text{Chain 0}/10}) + (10^{\text{Chain 1}/10})]$ + Directional gain

FCC 47 CFR Part 15 Subpart E

Mode	Channel/ Frequency (MHz)	Power spectral density (dBm/MHz)		Total power spectral density MIMO_Chain 0+1 (dBm/MHz)	Limit (dBm/MHz)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	36 (5180)	9.841	9.754	N/A	17	Pass
	44 (5220)	10.593	10.366	N/A	17	Pass
	48 (5240)	9.649	10.129	N/A	17	Pass
IEEE 802.11n-HT20	36 (5180)	4.263	4.04	7.163	15.24	Pass
	44 (5220)	9.542	8.879	12.233	15.24	Pass
	48 (5240)	4.155	5.093	7.660	15.24	Pass
IEEE 802.11n-HT40	38 (5190)	-0.714	-0.772	2.267	15.24	Pass
	46 (5230)	8.128	7.748	10.952	15.24	Pass
IEEE 802.11ac-VHT20	36 (5180)	3.889	4.264	7.091	15.24	Pass
	44 (5220)	9.305	8.797	12.069	15.24	Pass
	48 (5240)	4.023	4.705	7.388	15.24	Pass
IEEE 802.11ac-VHT40	38 (5190)	-0.513	-0.996	2.263	15.24	Pass
	46 (5230)	7.937	7.592	10.778	15.24	Pass
IEEE 802.11ac-VHT80	42 (5210)	-6.444	-7.243	-3.815	15.24	Pass
IEEE 802.11ax-HE20	36 (5180)	3.648	3.874	6.773	15.24	Pass
	44 (5220)	8.997	8.404	11.721	15.24	Pass
	48 (5240)	3.518	4.37	6.975	15.24	Pass
IEEE 802.11ax-HE40	38 (5190)	-1.38	-1.527	1.557	15.24	Pass
	46 (5230)	7.46	6.741	10.126	15.24	Pass
IEEE 802.11ax-HE80	42 (5210)	-6.69	-8.187	-4.364	15.24	Pass
Remark:						
1. Power spectral density = Conducted power spectral density + Duty Cycle Factor						
2. Total Power (Chain 0+1) = 10*log ₁₀ [(10 ^{Chain 0/10})+(10 ^{Chain 1/10})]						

Frequency band 5250-5350 MHz

Mode	Channel/ Frequency (MHz)	Power spectral density (dBm/MHz)		Total power spectral density MIMO_Chain 0+1 (dBm/MHz)	Limit (dBm/MHz)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	52 (5260)	9.592	9.956	N/A	11	Pass
	60 (5300)	9.665	9.999	N/A	11	Pass
	64 (5320)	10.166	10.744	N/A	11	Pass
IEEE 802.11n-HT20	52 (5260)	3.89	4.705	7.327	9.24	Pass
	60 (5300)	5.487	5.884	8.700	9.24	Pass
	64 (5320)	5.321	5.767	8.560	9.24	Pass
IEEE 802.11n-HT40	54 (5270)	3.259	3.609	6.448	9.24	Pass
	62 (5310)	0.044	-0.087	2.989	9.24	Pass
IEEE 802.11ac-VHT20	52 (5260)	4.001	4.824	7.442	9.24	Pass
	60 (5300)	5.672	5.794	8.744	9.24	Pass
	64 (5320)	5.094	5.419	8.270	9.24	Pass
IEEE 802.11ac-VHT40	54 (5270)	2.975	2.916	5.956	9.24	Pass
	62 (5310)	-0.338	-0.058	2.815	9.24	Pass
IEEE 802.11ac-VHT80	58 (5290)	-6.702	-6.776	-3.729	9.24	Pass
IEEE 802.11ax-HE20	52 (5260)	3.694	4.168	6.948	9.24	Pass
	60 (5300)	6.115	5.899	9.019	9.24	Pass
	64 (5320)	4.931	4.972	7.962	9.24	Pass
IEEE 802.11ax-HE40	54 (5270)	2.694	2.874	5.795	9.24	Pass
	62 (5310)	-0.828	-0.741	2.226	9.24	Pass
IEEE 802.11ax-HE80	58 (5290)	-6.696	-6.75	-3.713	9.24	Pass
Remark:						
1. Power spectral density = Conducted power spectral density + Duty Cycle Factor						
2. Total Power (Chain 0+1) = 10*log[(10 ^{Chain 0/10})+(10 ^{Chain 1/10})]						

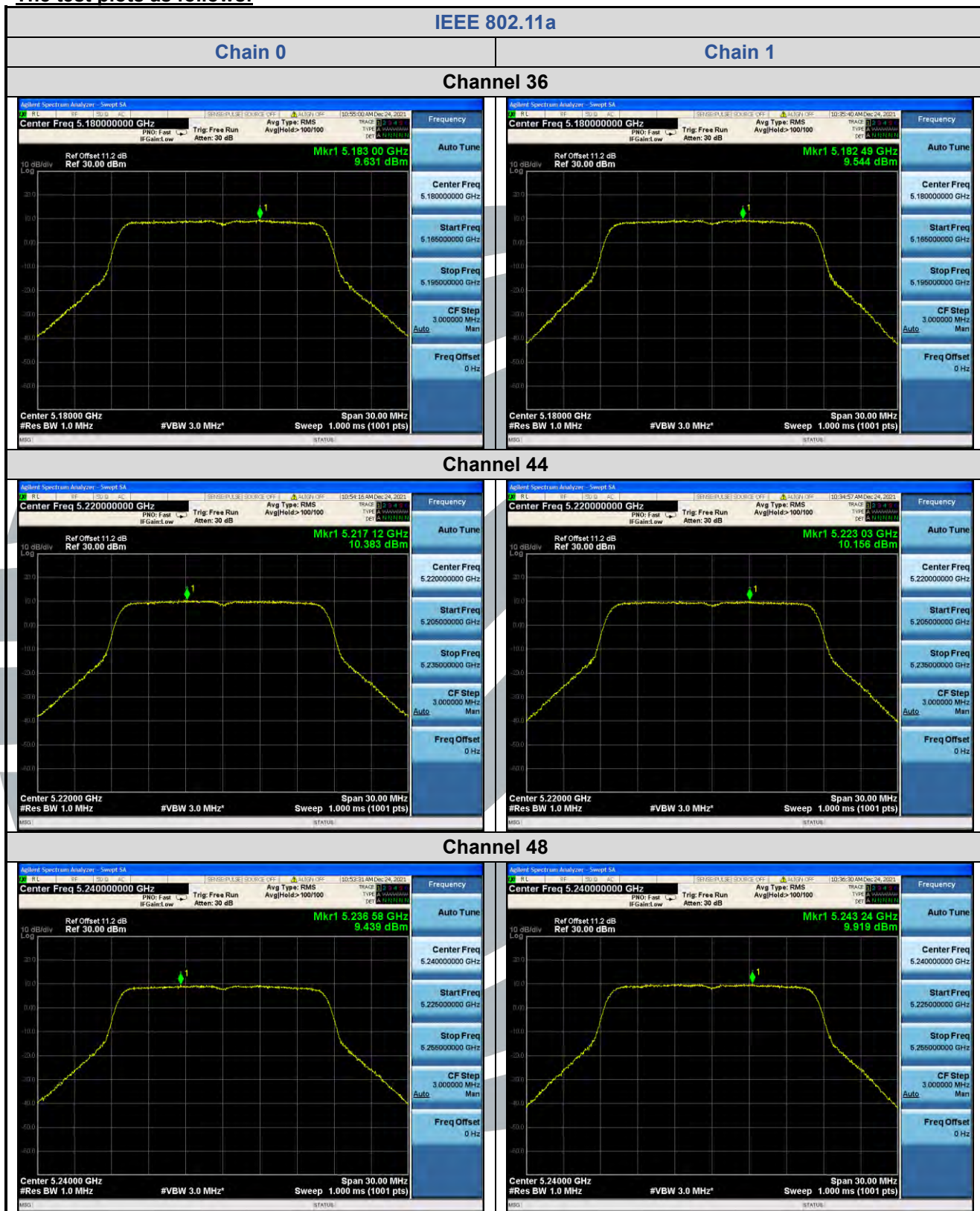
Frequency bands 5470-5725 MHz (RSS-247 Issue 2 Not including 5600-5650 MHz)

Mode	Channel/ Frequency (MHz)	Power spectral density (dBm/MHz)		Total power spectral density MIMO_ Chain 0+1 (dBm/MHz)	Limit (dBm/MHz)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	100 (5500)	9.018	9.043	N/A	11	Pass
	116 (5580)	9.765	9.529	N/A	11	Pass
	140 (5700)	9.836	9.828	N/A	11	Pass
IEEE 802.11n-HT20	100 (5500)	3.608	3.933	6.784	9.24	Pass
	116 (5580)	5.789	5.691	8.751	9.24	Pass
	140 (5700)	4.297	4.912	7.626	9.24	Pass
IEEE 802.11n-HT40	102 (5510)	-1.828	-2.051	1.072	9.24	Pass
	110 (5550)	4.352	3.571	6.989	9.24	Pass
	134 (5670)	-1.583	-1.588	1.425	9.24	Pass
IEEE 802.11ac-VHT20	100 (5500)	3.627	3.831	6.740	9.24	Pass
	116 (5580)	5.956	5.804	8.891	9.24	Pass
	140 (5700)	4.329	4.656	7.506	9.24	Pass
IEEE 802.11ac-VHT40	102 (5510)	-2.082	-2.28	0.830	9.24	Pass
	110 (5550)	4.112	3.39	6.776	9.24	Pass
	134 (5670)	-1.768	-1.788	1.232	9.24	Pass
IEEE 802.11ac-VHT80	106 (5530)	-4.099	-5.053	-1.540	9.24	Pass
IEEE 802.11ax-HE20	100 (5500)	3.189	3.368	6.290	9.24	Pass
	116 (5580)	5.851	6.065	8.970	9.24	Pass
	140 (5700)	4.472	4.408	7.450	9.24	Pass
IEEE 802.11ax-HE40	102 (5510)	-2.843	-2.944	0.117	9.24	Pass
	110 (5550)	3.704	2.757	6.267	9.24	Pass
	134 (5670)	-2.546	-2.432	0.522	9.24	Pass
IEEE 802.11ax-HE80	106 (5530)	-4.256	-5.225	-1.703	9.24	Pass
Remark:						
1. Power spectral density = Conducted power spectral density + Duty Cycle Factor						
2. Total Power (Chain 0+1) = 10*log[(10 ^{Chain 0/10})+(10 ^{Chain 1/10})]						

Frequency band 5725-5850 MHz

Mode	Channel/ Frequency (MHz)	Power spectral density (dBm/MHz)		Total power spectral density MIMO_Chain 0+1 (dBm/MHz)	Limit (dBm/500KHz)	Pass / Fail
		SISO				
		Chain 0	Chain 1			
IEEE 802.11a	149 (5745)	8.152	7.933	N/A	30	Pass
	157 (5785)	7.18	7.621	N/A	30	Pass
	165 (5825)	7.262	7.264	N/A	30	Pass
IEEE 802.11n-HT20	149 (5745)	6.132	6.39	9.273	28.24	Pass
	157 (5785)	5.642	6.109	8.892	28.24	Pass
	165 (5825)	5.654	5.665	8.670	28.24	Pass
IEEE 802.11n-HT40	151 (5755)	4.053	4.503	7.294	28.24	Pass
	159 (5795)	4.227	4.379	7.314	28.24	Pass
IEEE 802.11ac-VHT20	149 (5745)	6.249	6.4	9.335	28.24	Pass
	157 (5785)	5.699	5.925	8.824	28.24	Pass
	165 (5825)	5.54	5.713	8.638	28.24	Pass
IEEE 802.11ac-VHT40	151 (5755)	4.239	4.323	7.292	28.24	Pass
	159 (5795)	4.088	4.171	7.140	28.24	Pass
IEEE 802.11ac-VHT80	155 (5775)	-0.155	0.461	3.174	28.24	Pass
IEEE 802.11ax-HE20	149 (5745)	6.054	6.091	9.083	28.24	Pass
	157 (5785)	5.125	6.001	8.595	28.24	Pass
	165 (5825)	5.162	5.561	8.376	28.24	Pass
IEEE 802.11ax-HE40	151 (5755)	3.404	4.016	6.731	28.24	Pass
	159 (5795)	3.478	3.463	6.481	28.24	Pass
IEEE 802.11ax-HE80	155 (5775)	-0.06	-0.06	2.950	28.24	Pass
Remark:						
1. Power spectral density = Conducted power spectral density + Duty Cycle Factor						
2. Total Power (Chain 0+1) = 10*log[(10 ^{Chain 0/10})+(10 ^{Chain 1/10})]						

The test plots as follows:



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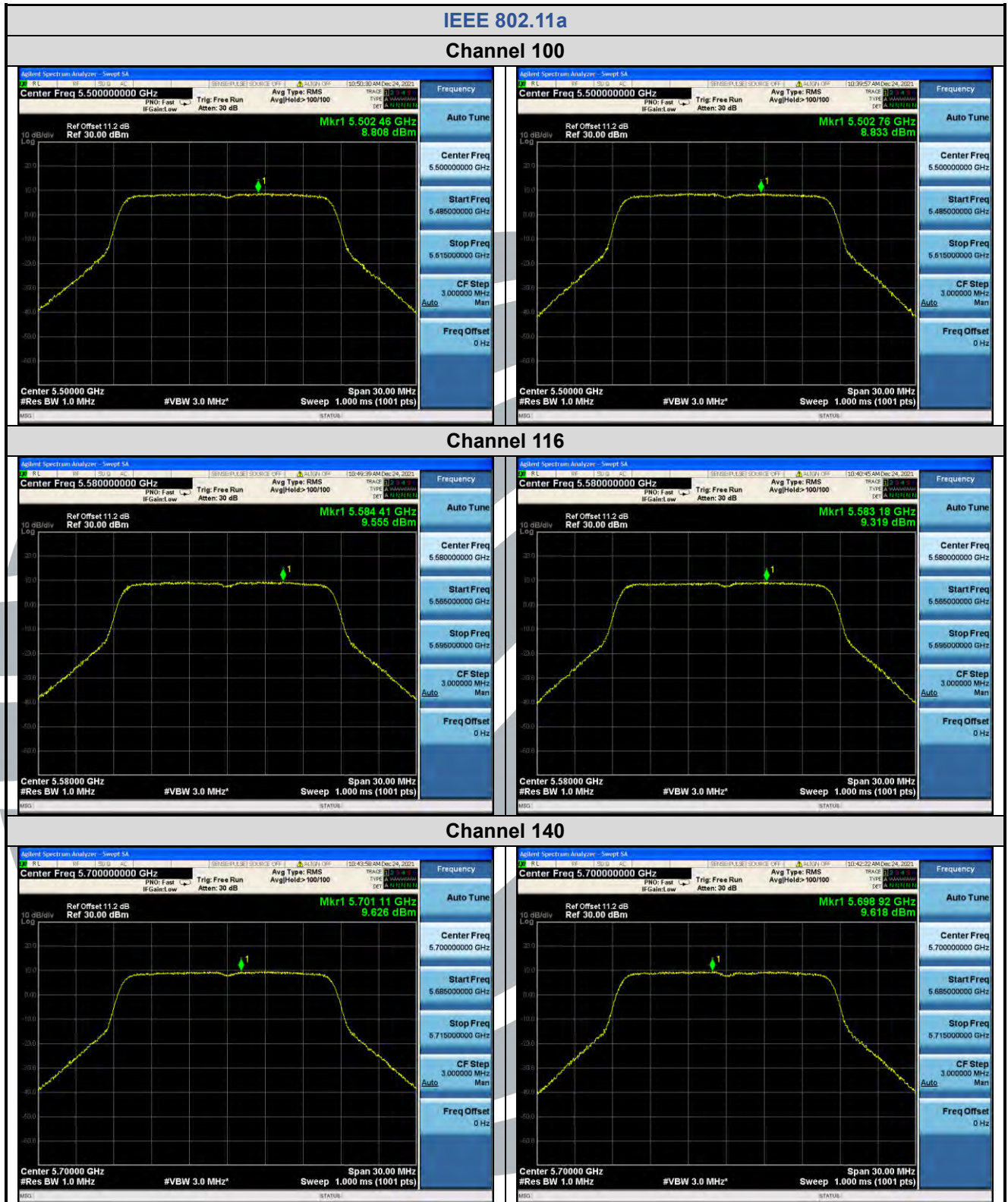
Fax: +86-755-28230886

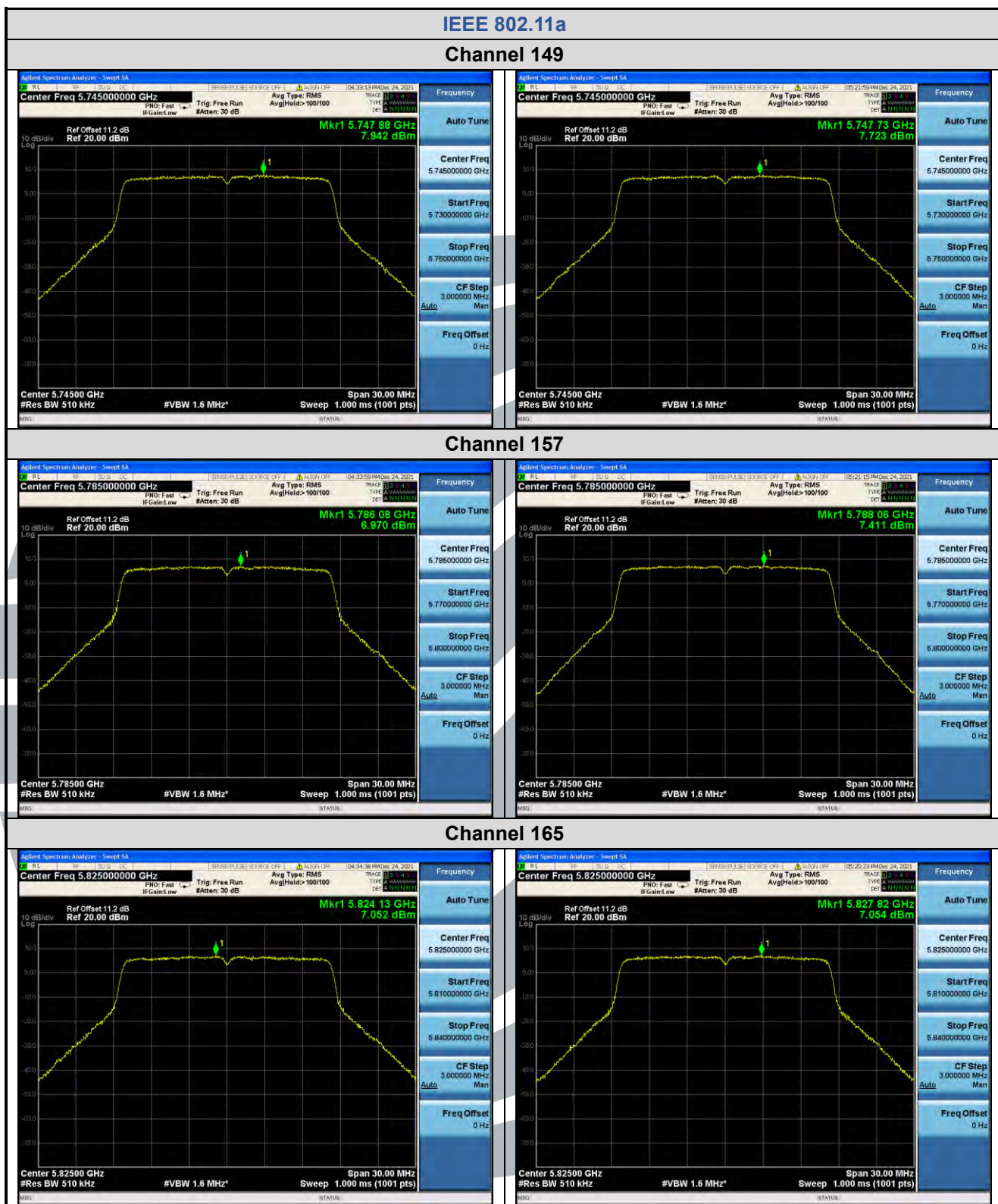
E-mail: info@uttlab.com

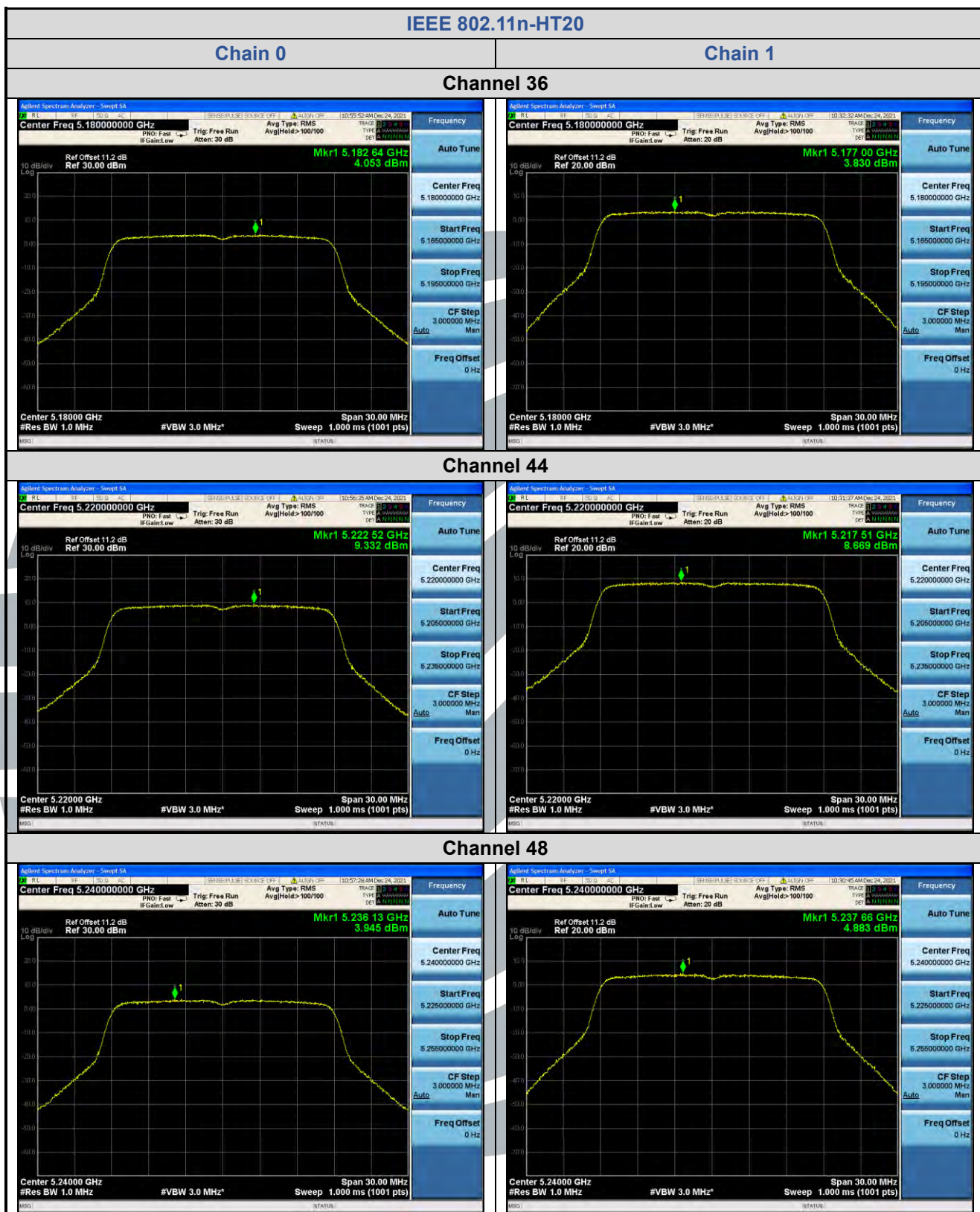
<http://www.uttlab.com>

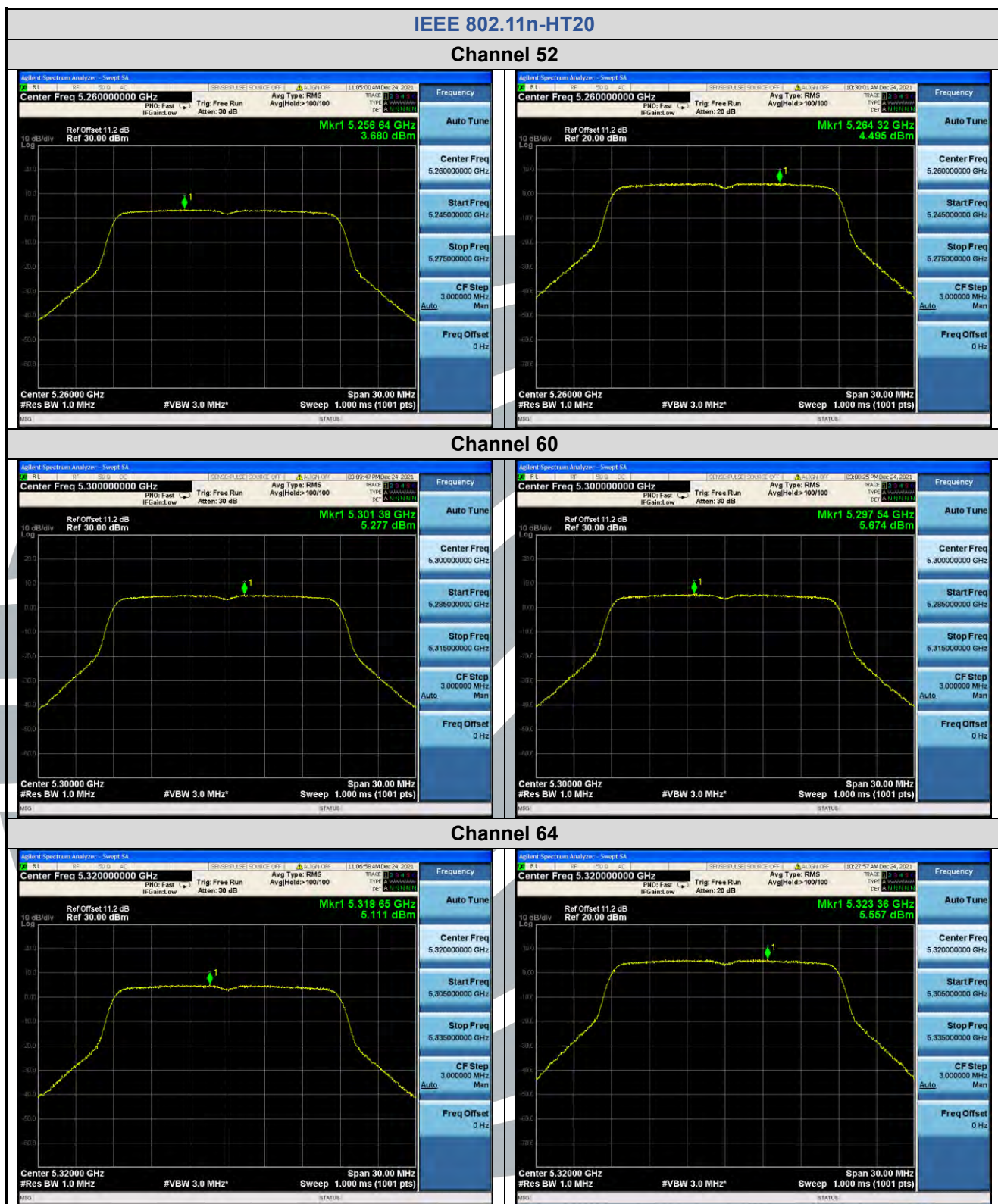
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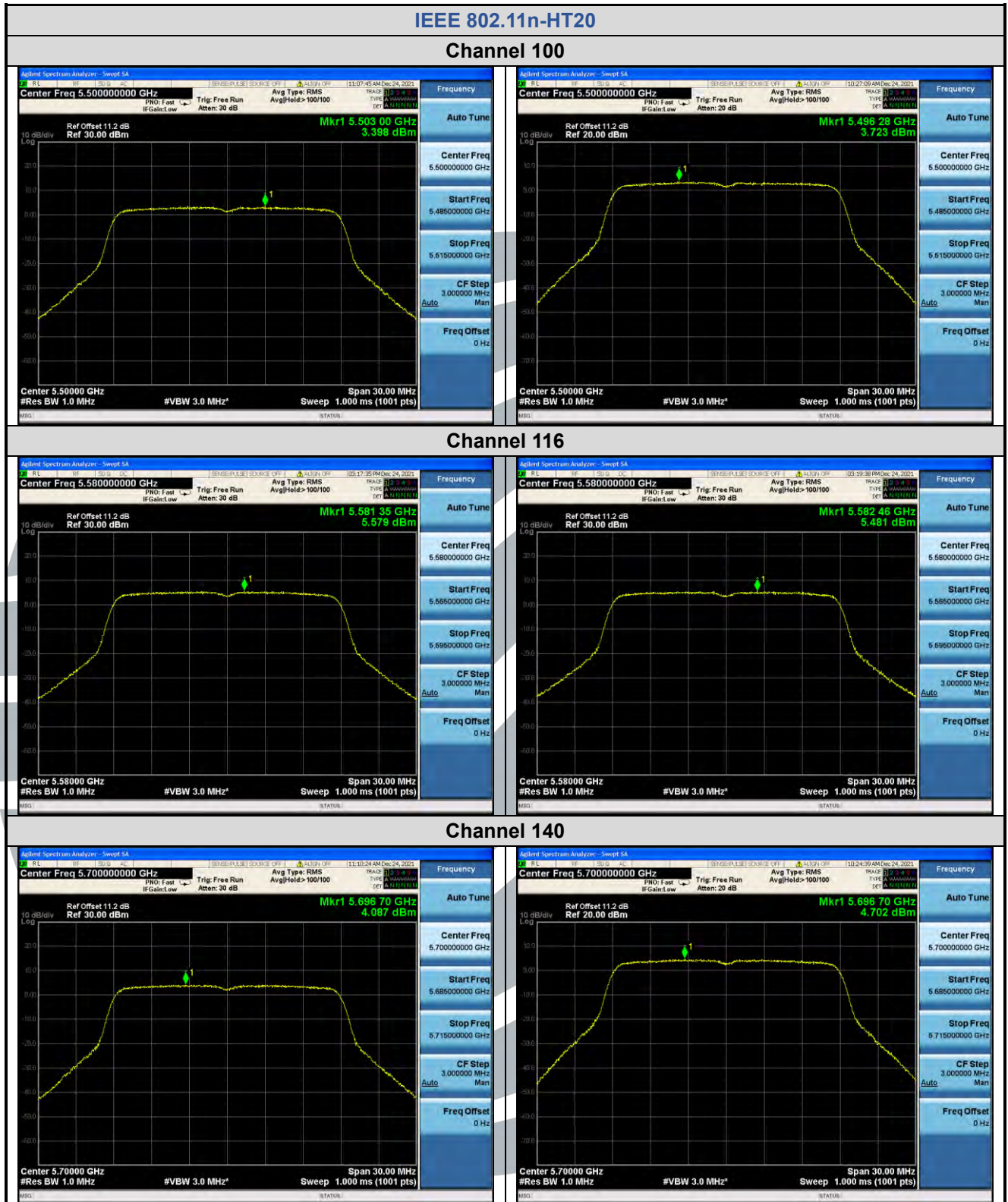


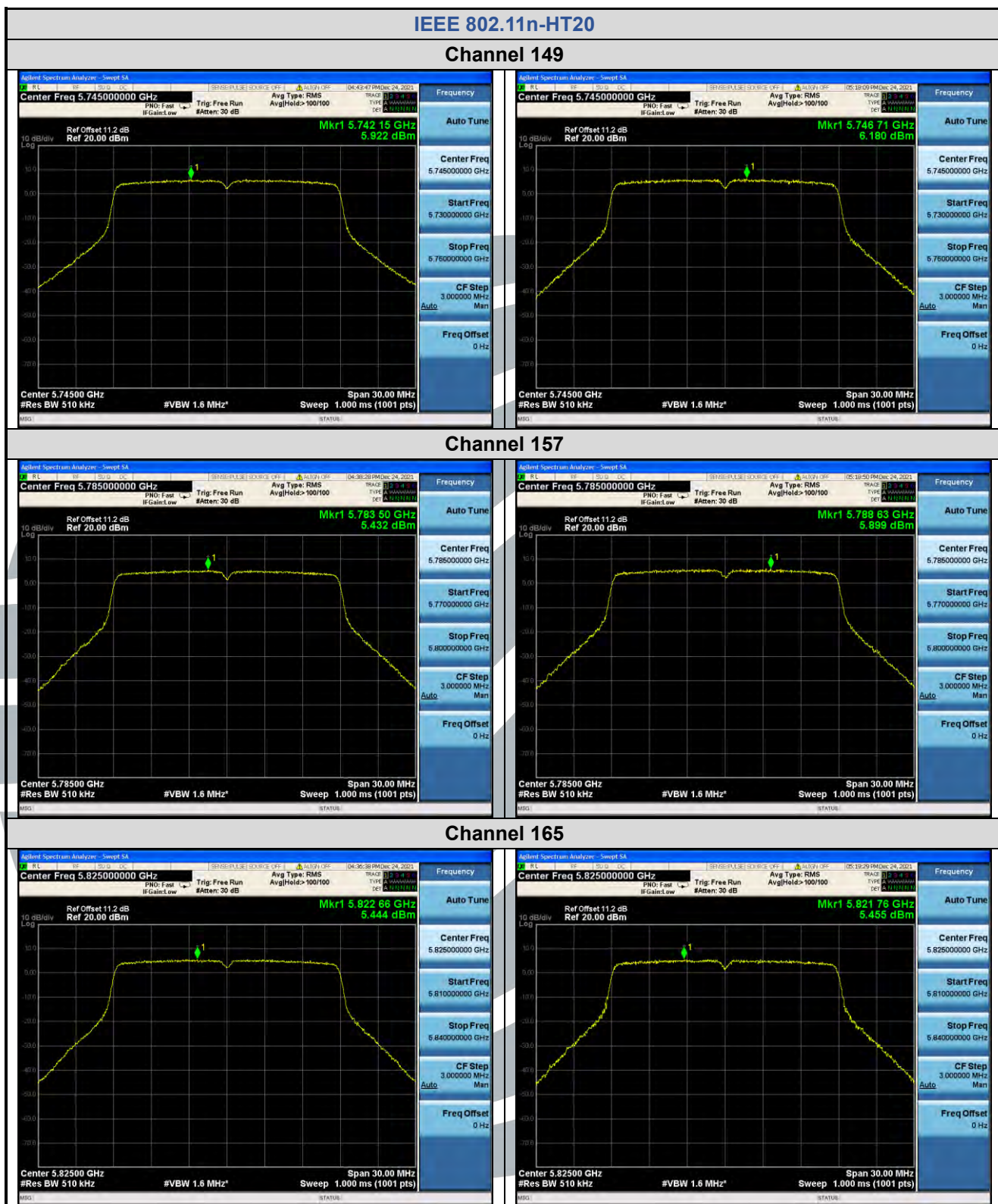


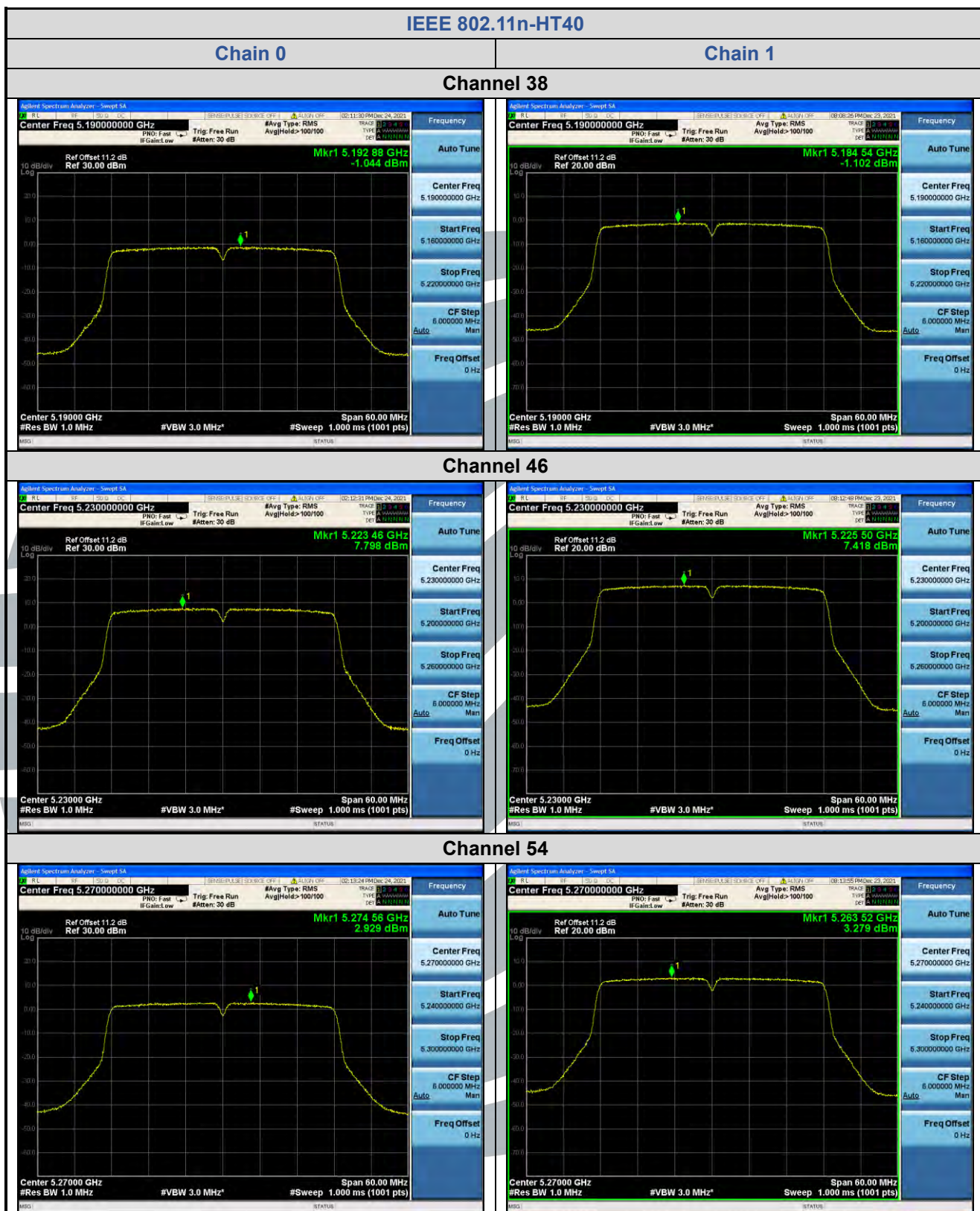










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