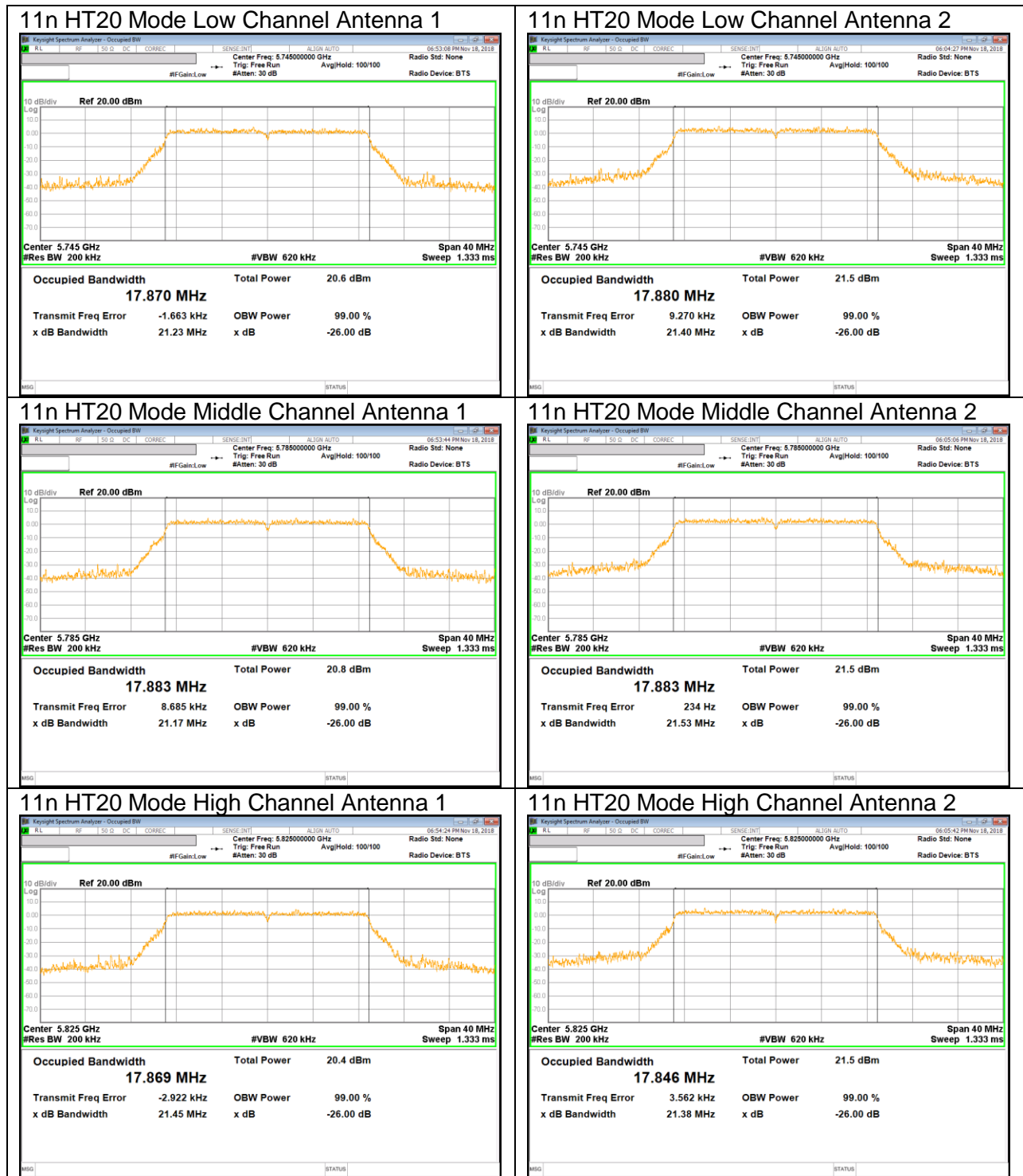
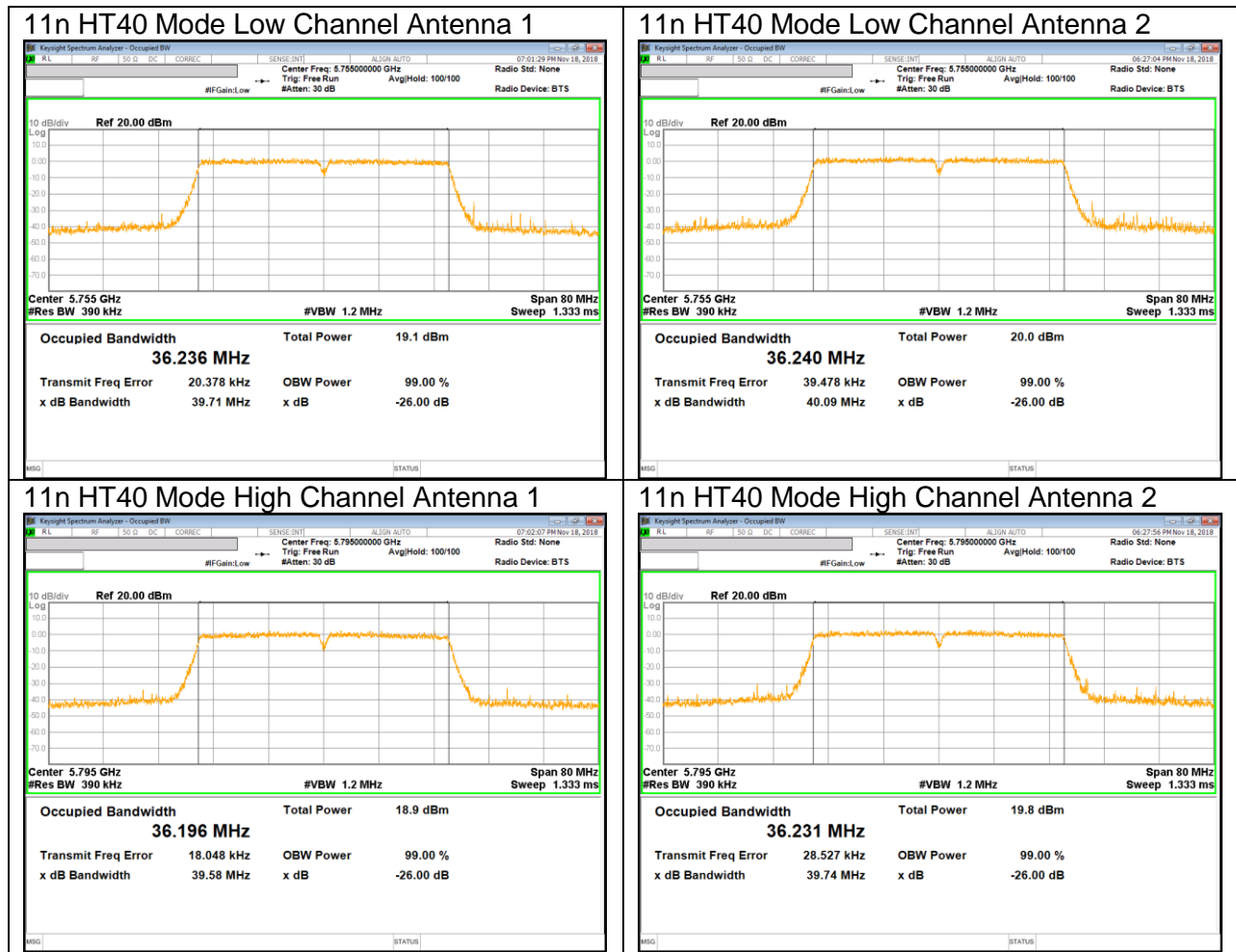


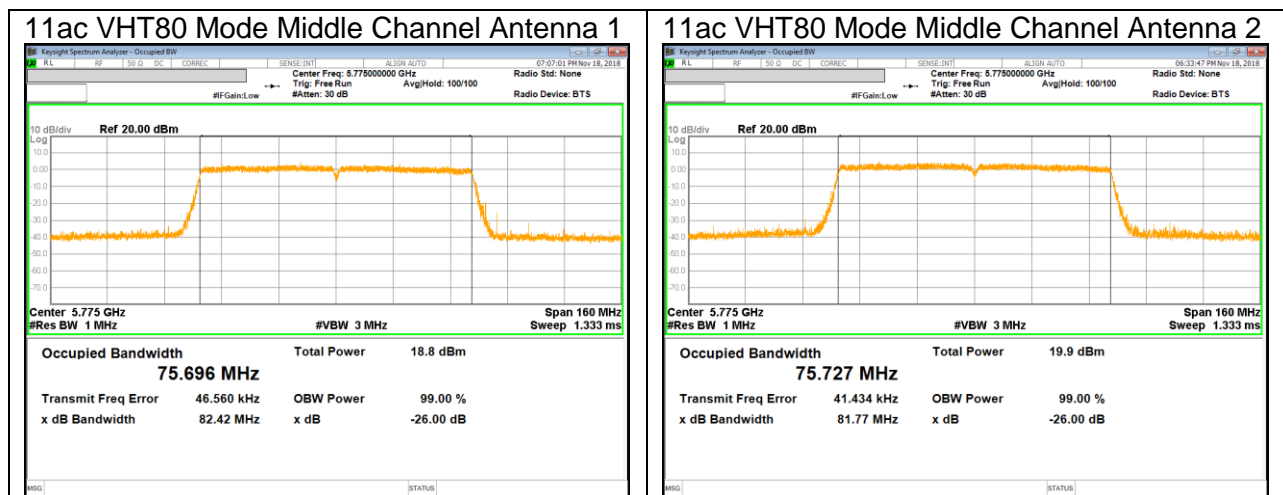
UNII 5.8 GHz IEEE 802.11n HT20 mode



UNII 5.8 GHz IEEE 802.11n HT40 mode



UNII 5.8 GHz IEEE 802.11ac VHT80 mode



9.4. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Reference to 789033 D02 General UNII Test Procedures New Rules v01r04: The transmitter output is connected to a spectrum analyzer with the RBW set to approximately 1% to 5% of OBW, the VBW >= 3 x RBW, single sweep.

NOTE

- Calculation for 99% Bandwidth of UNII-2C and UNII-3 Straddle Channel
 - ex) Fundamental frequency : 5720MHz
 - 99% BW : 21.00MHz
 - Turning Frequency : 5725MHz
 - 99% Bandwidth of UNII-2C band Portion
 = $(5725 - (5720 - (21.00 / 2))) = 15.50 \text{ MHz}$
 - 99% Bandwidth of UNII-3 band Portion
 = $(5720 + (21.00 / 2) - 5725) = 5.50 \text{ MHz}$
- 99% Bandwidth test were performed each antenna port on SISO mode.

RESULTS

9.4.1.802.11a MODE IN THE 5.2 GHZ BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5180	16.566	16.538
Mid	5200	16.581	16.538
High	5240	16.560	16.565
Worst		16.581	

9.4.2.802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5180	17.771	17.729
Mid	5200	17.768	17.762
High	5240	17.760	17.769
Worst		17.771	

9.4.3.802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5190	36.264	36.246
High	5230	36.271	36.194
Worst		36.271	

9.4.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Middle	5210	75.712	75.753
Worst		75.753	

9.4.5.802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5260	16.570	16.558
Mid	5300	16.540	16.570
High	5320	16.577	16.554
Worst		16.577	

9.4.6.802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5260	17.733	17.787
Mid	5300	17.755	17.763
High	5320	17.740	17.769
Worst		17.787	

9.4.7.802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5270	36.239	36.292
High	5310	36.272	36.269
Worst		36.292	

9.4.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Middle	5290	75.693	75.539
Worst		75.693	

9.4.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5500	16.576	16.574
Mid	5580	16.562	16.546
High	5700	16.547	16.532
Straddle	5720	13.277	13.283
Worst		16.576	

9.4.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5500	17.769	17.758
Mid	5580	17.769	17.742
High	5700	17.772	17.787
Straddle	5720	13.884	13.880
Worst		17.787	

9.4.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5510	36.269	36.265
Mid	5550	36.293	36.256
High	5670	36.235	36.264
Straddle	5710	33.134	33.118
Worst		36.293	

9.4.12. 802.11ac VHT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5530	75.727	75.783
High	5610	75.712	75.699
Straddle	5690	72.883	72.820
Worst		75.783	

9.4.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5720	3.276	3.283
Low	5745	16.588	16.573
Mid	5785	16.546	16.563
High	5825	16.552	16.561
Worst		16.588	

9.4.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5720	3.883	3.880
Low	5745	17.745	17.777
Mid	5785	17.761	17.761
High	5825	17.744	17.767
Worst		17.777	

9.4.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

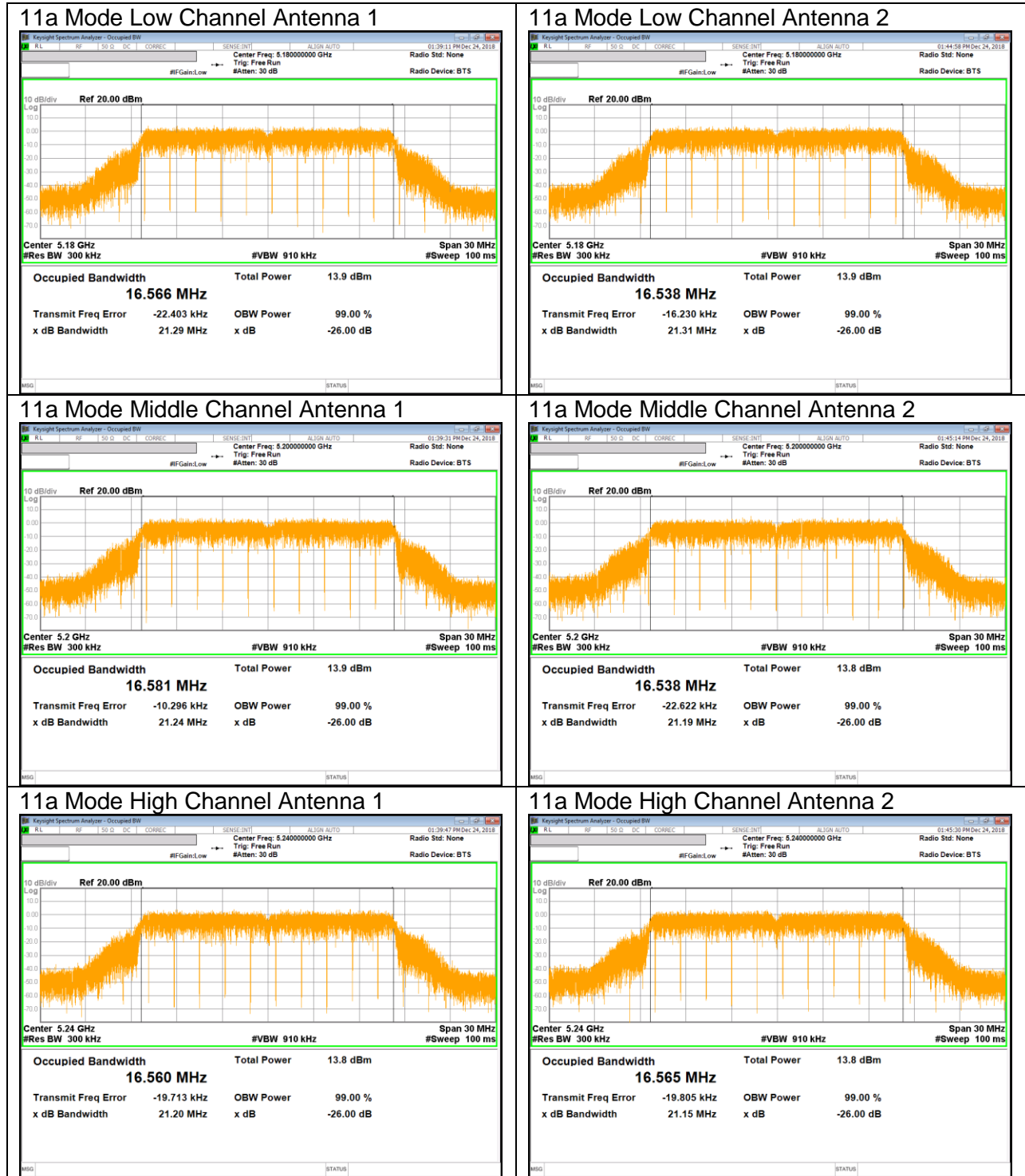
Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5710	3.135	3.118
Low	5755	36.197	36.276
High	5795	36.192	36.233
Worst		36.276	

9.4.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

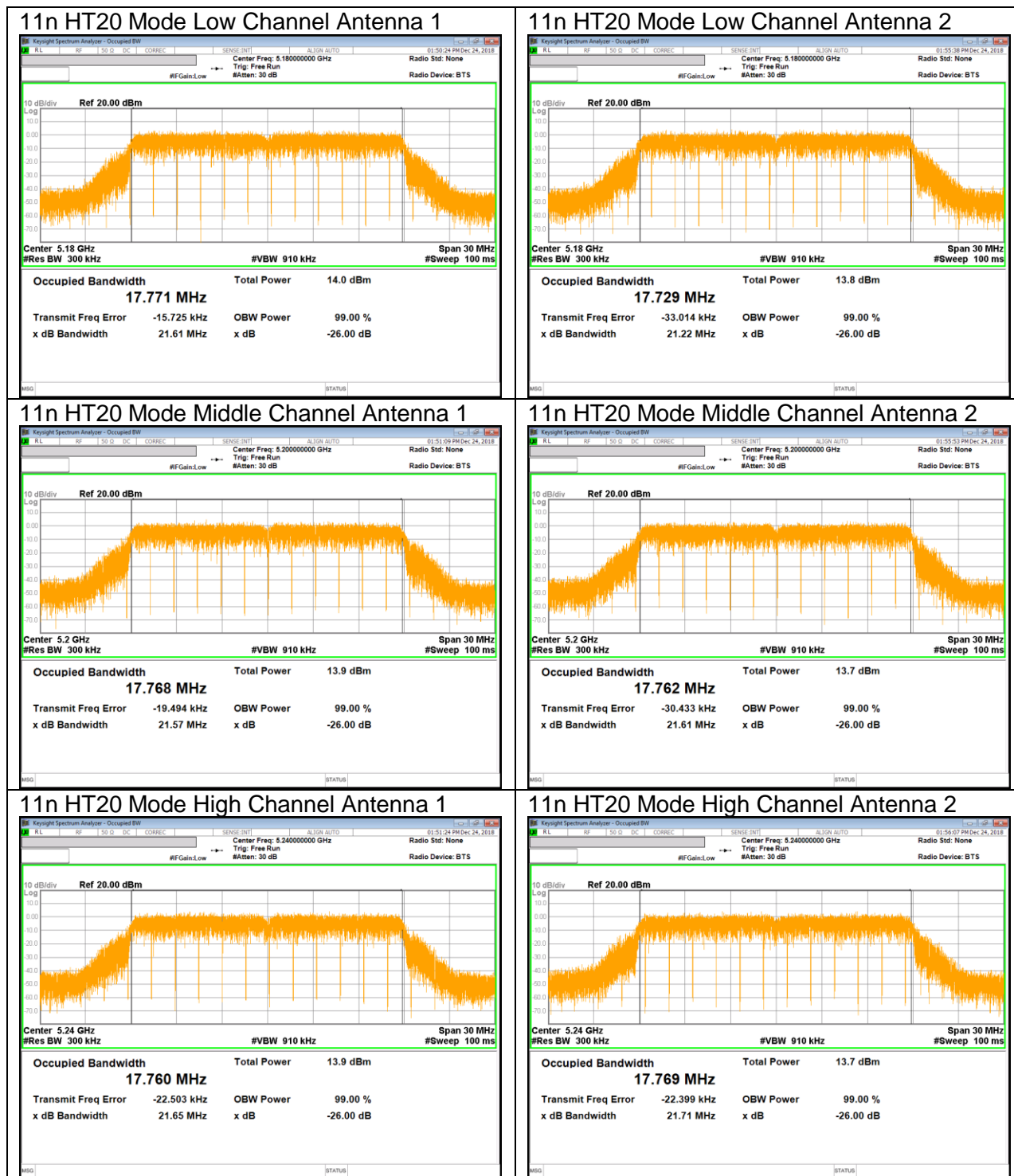
Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5690	2.882	2.819
Middle	5775	75.736	75.644
Worst		75.736	

9.4.17. 99% BANDWIDTH PLOTS

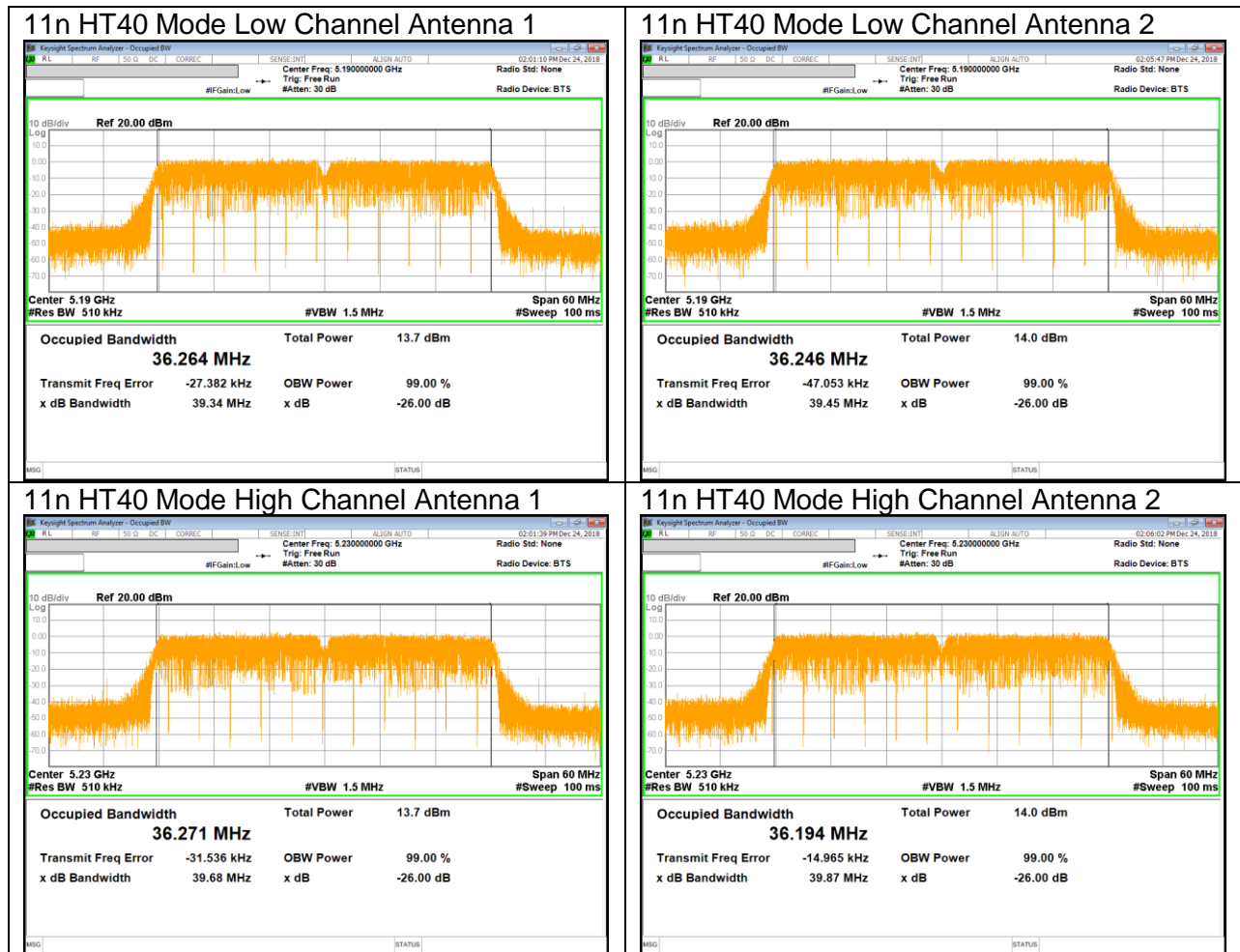
UNII 5.2 GHz IEEE 802.11a mode



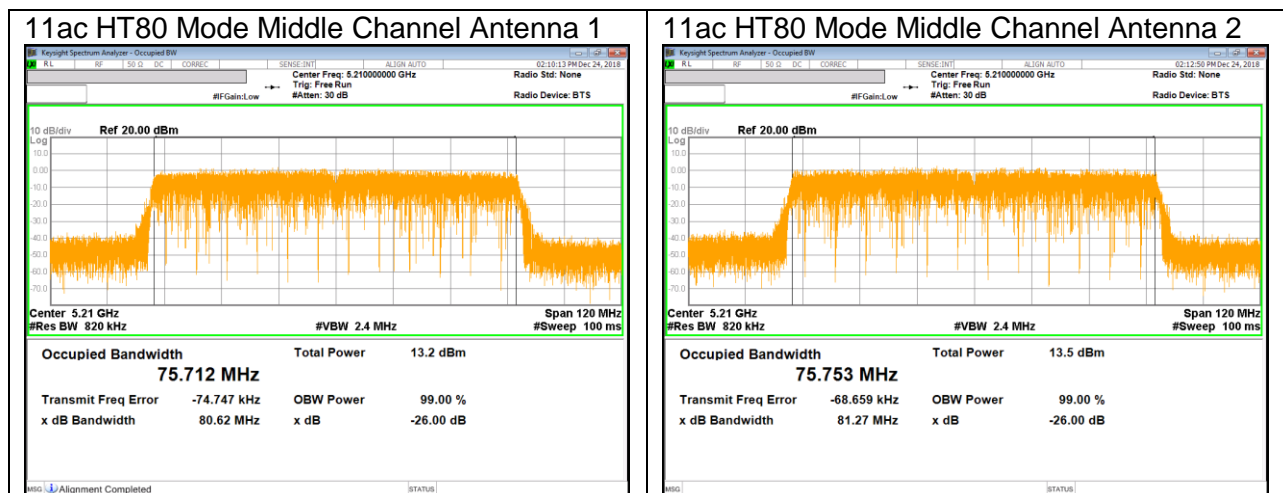
UNII 5.2 GHz IEEE 802.11n HT20 mode



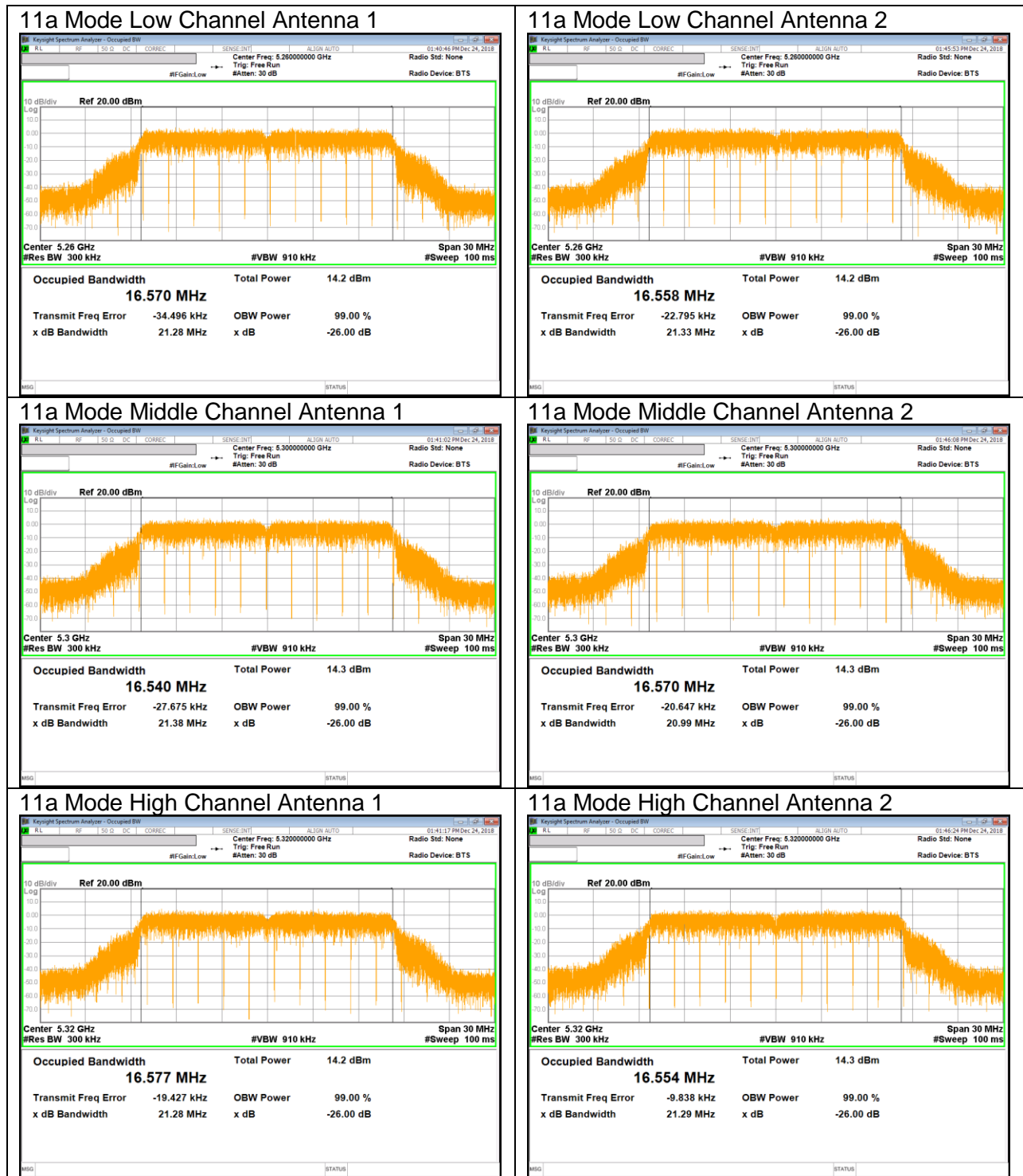
UNII 5.2 GHz IEEE 802.11n HT40 mode



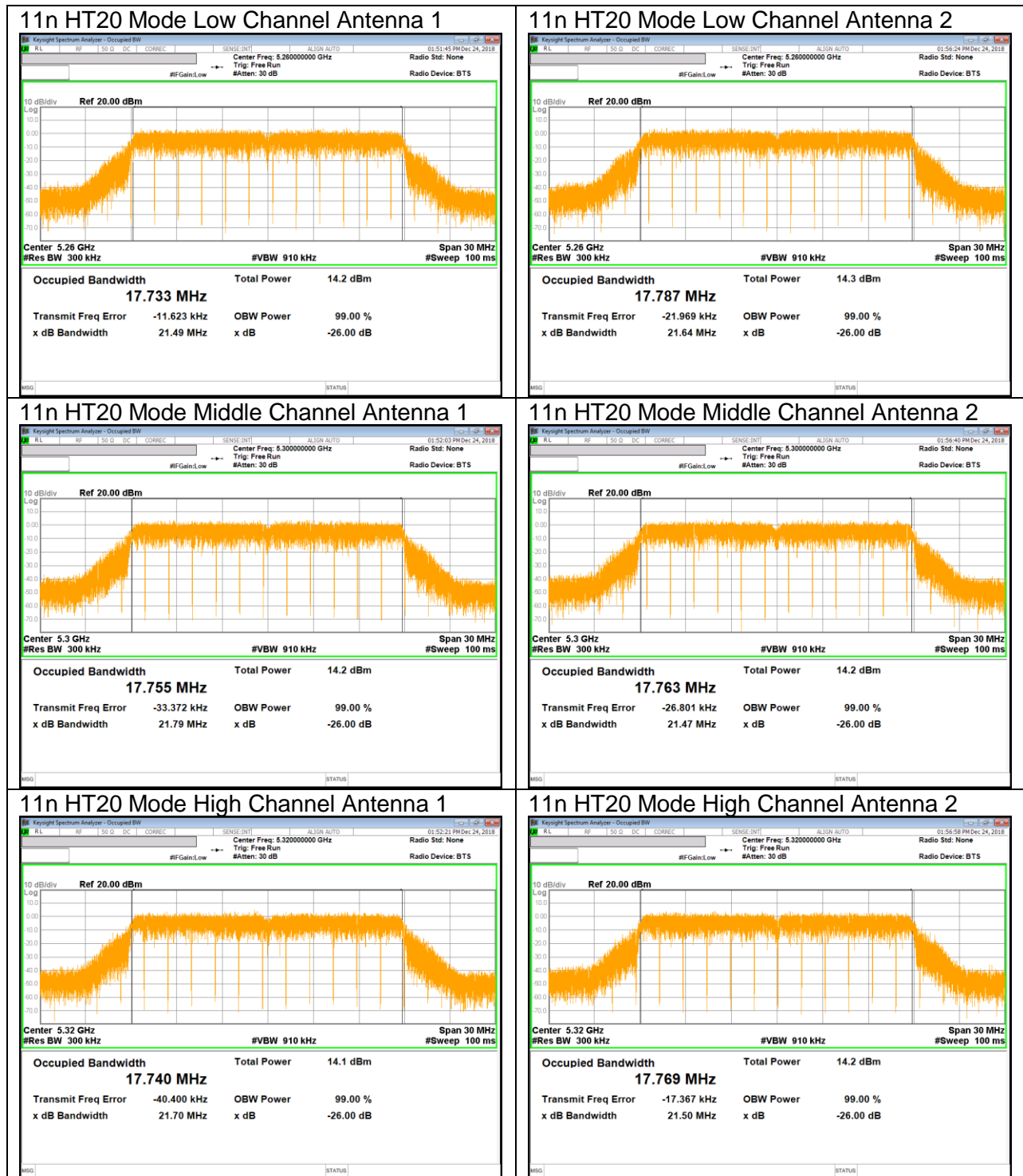
UNII 5.2 GHz IEEE 802.11ac VHT80 mode



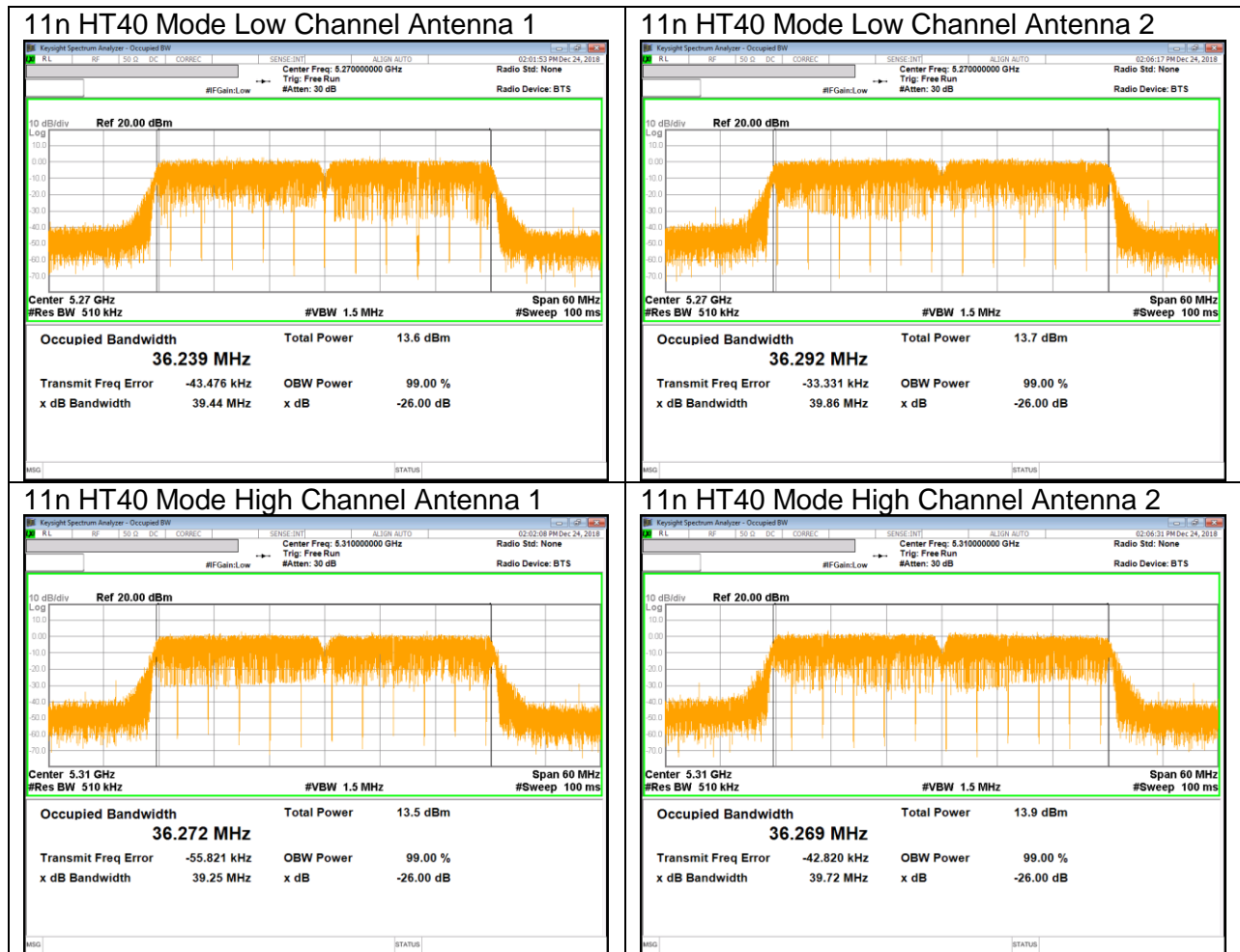
UNII 5.3 GHz IEEE 802.11a mode



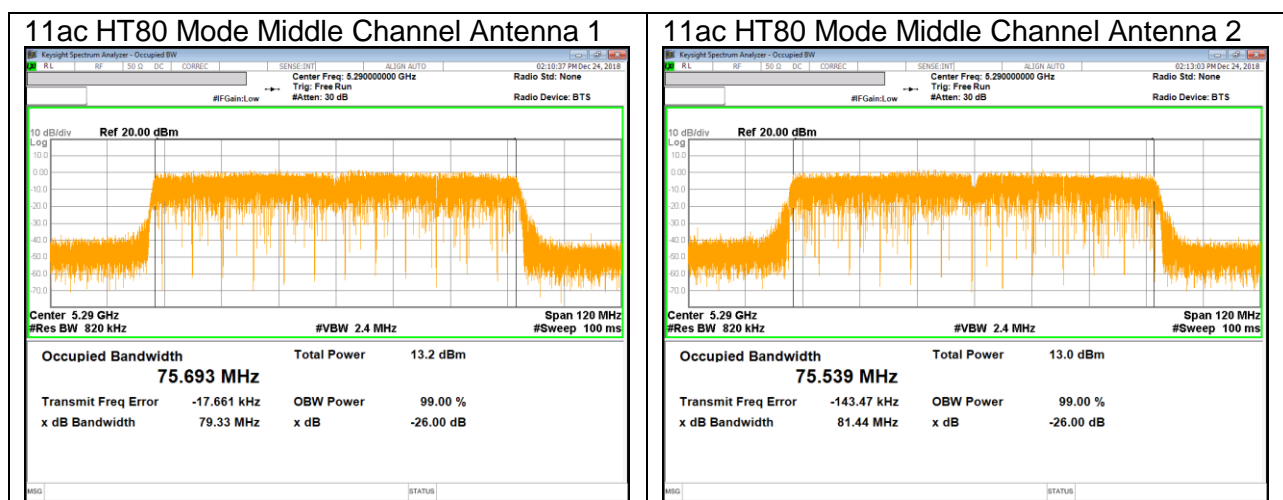
UNII 5.3 GHz IEEE 802.11n HT20 mode



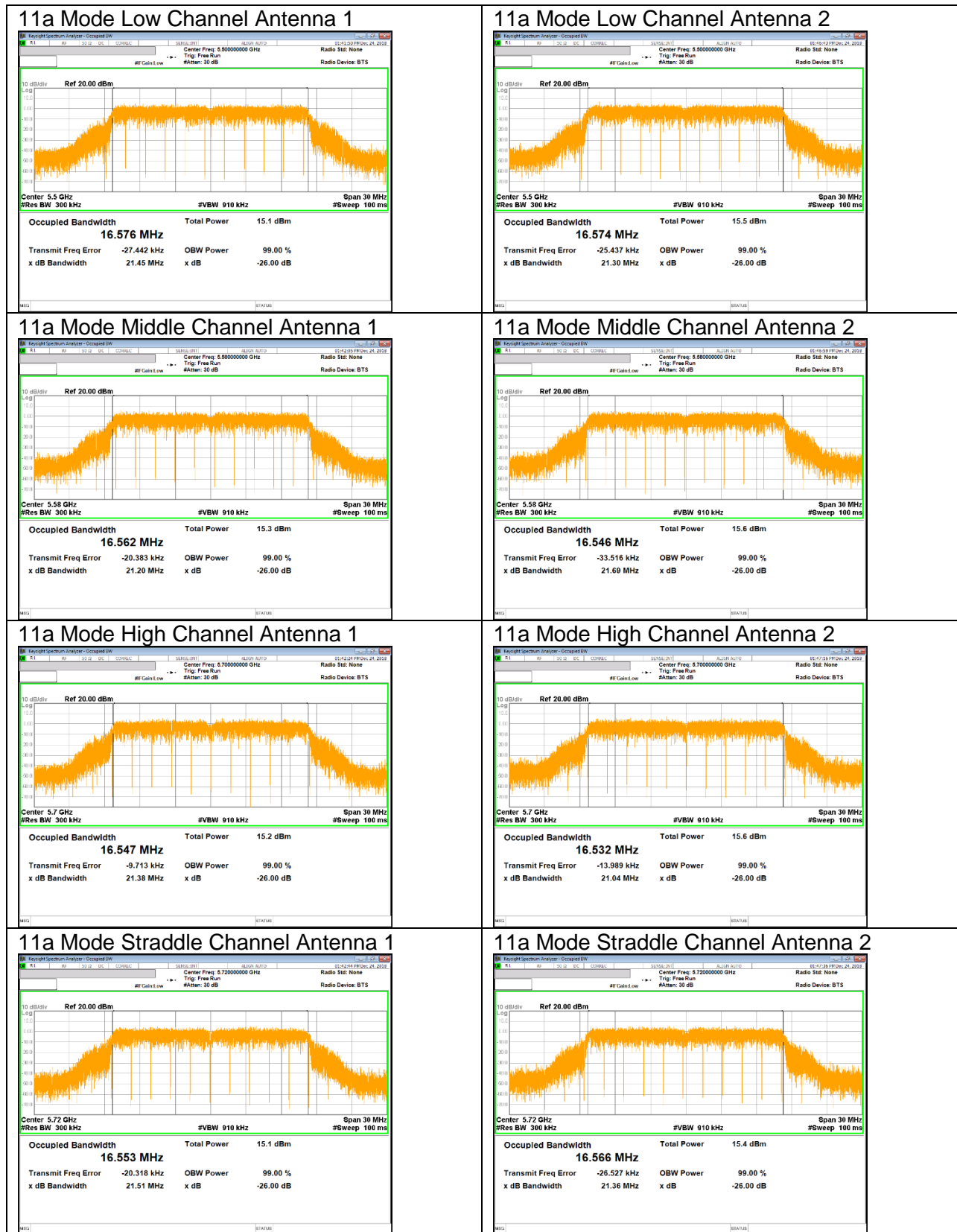
UNII 5.3 GHz IEEE 802.11n HT40 mode



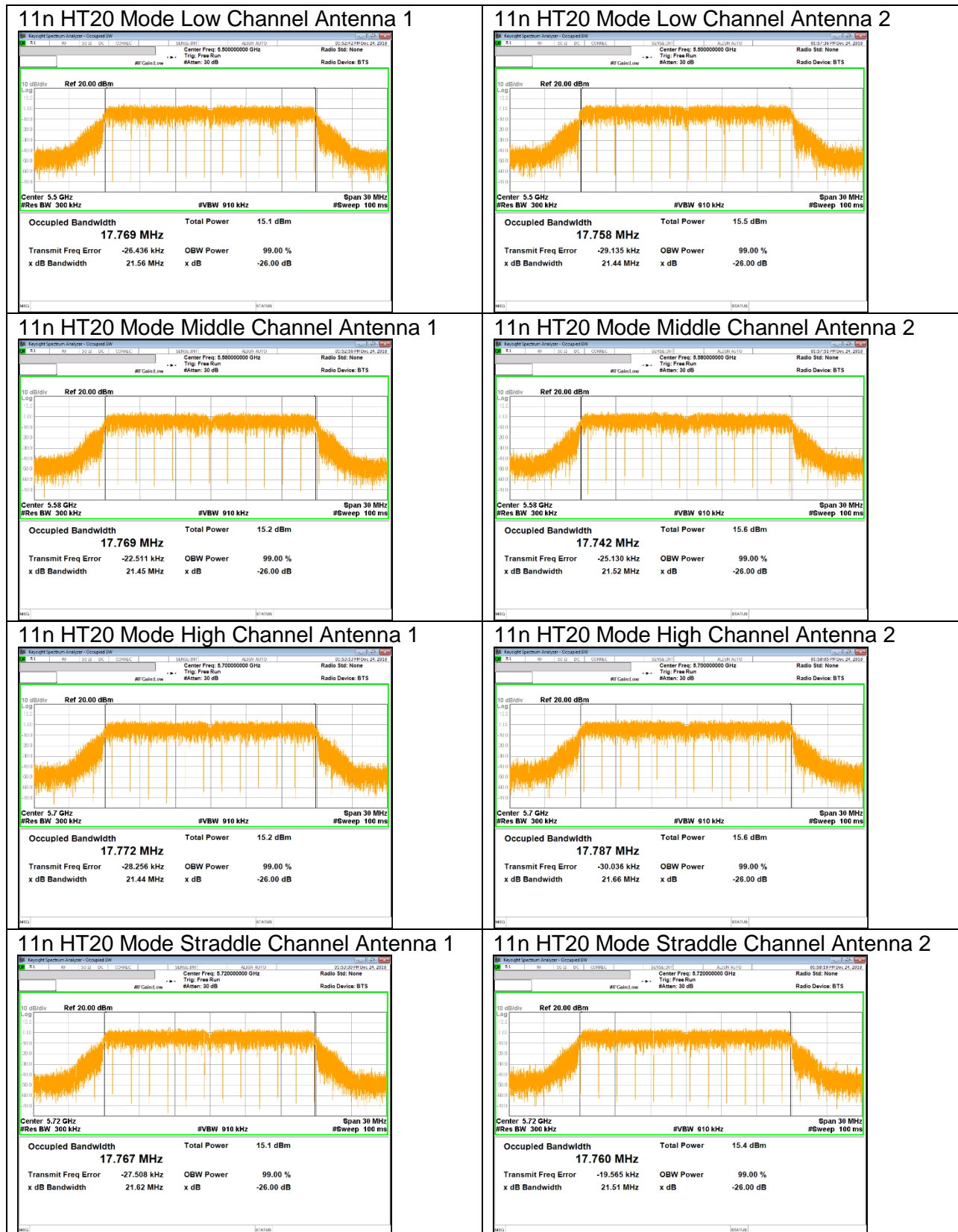
UNII 5.3 GHz IEEE 802.11ac VHT80 mode



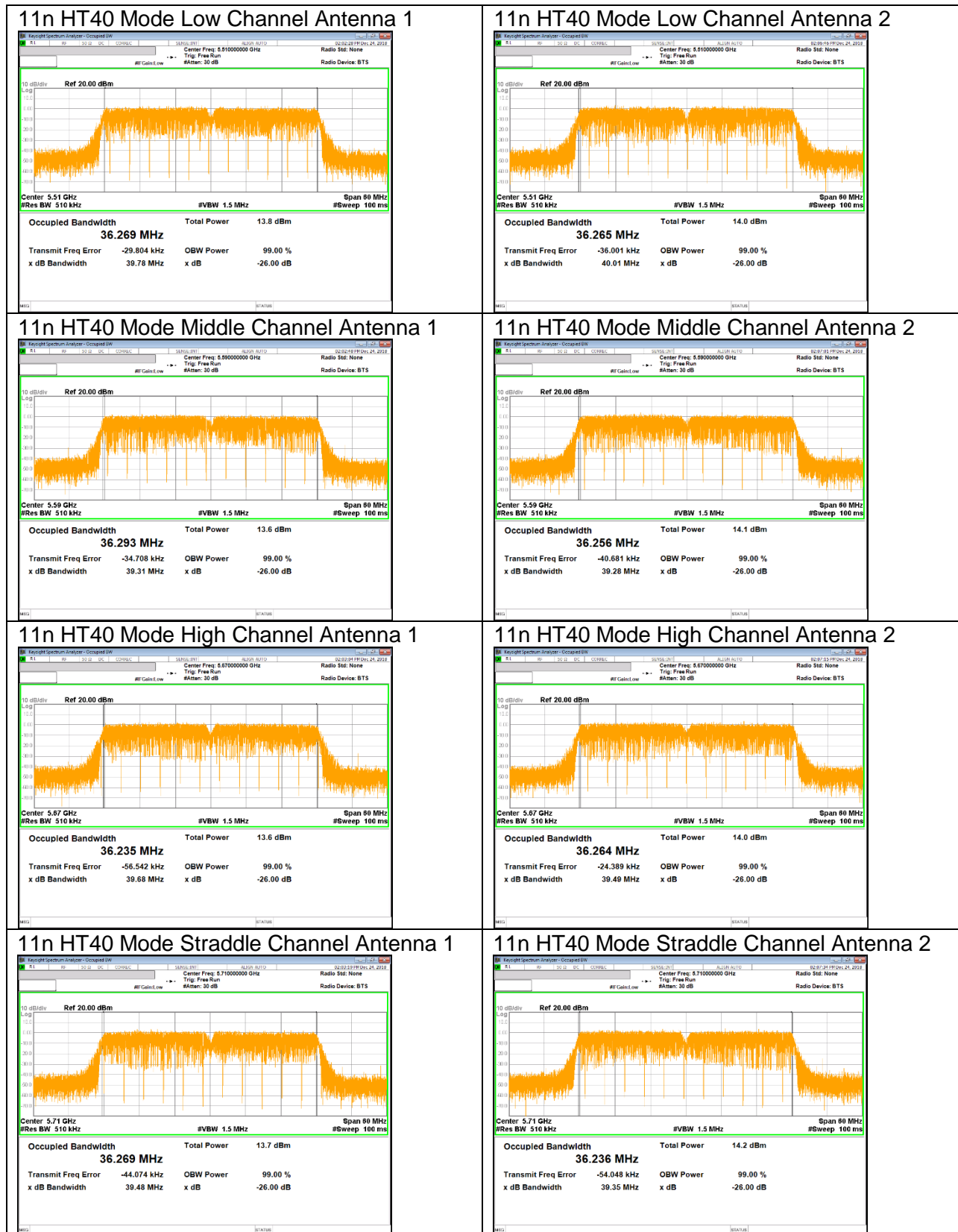
UNII 5.5 GHz IEEE 802.11a mode



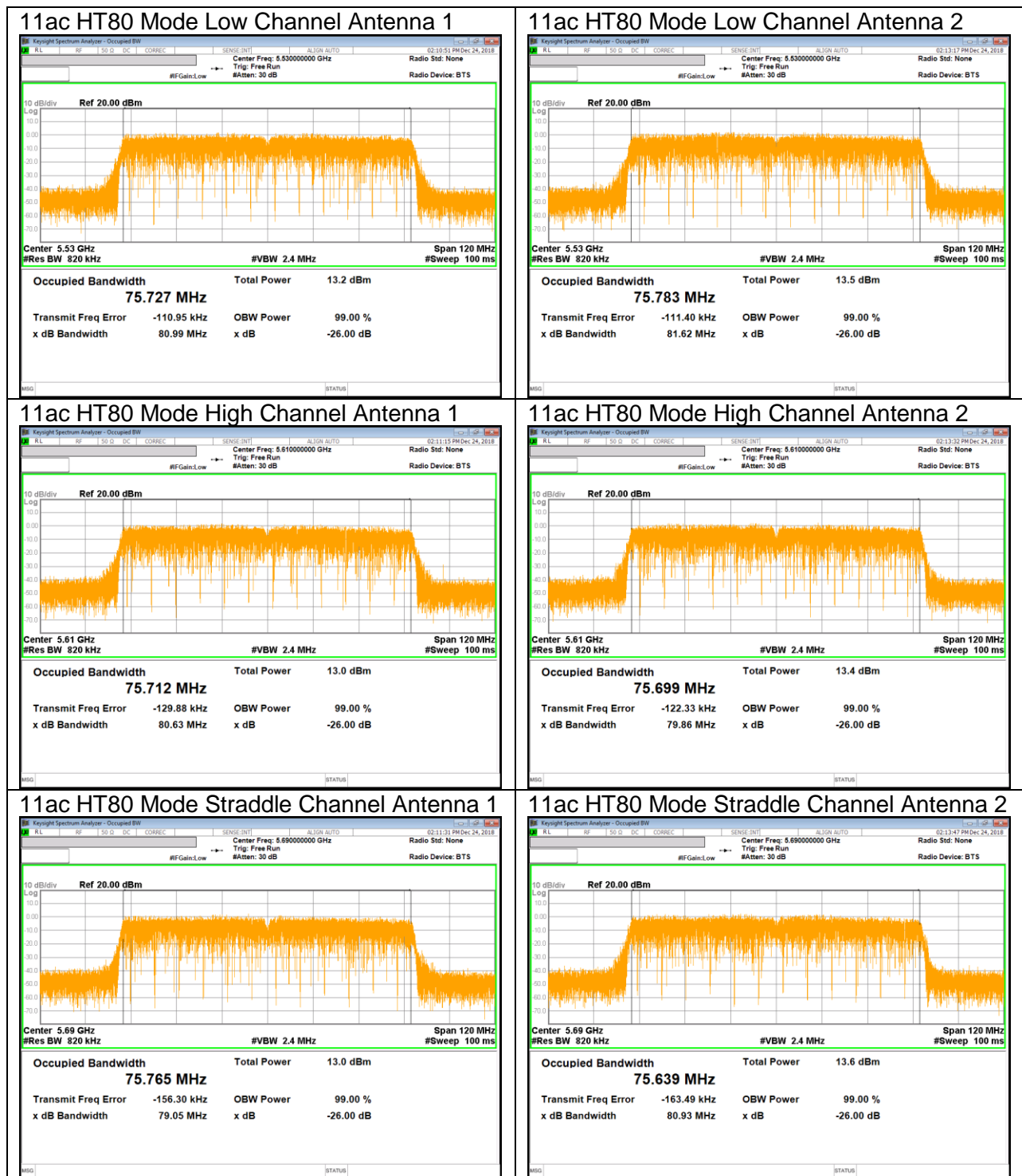
UNII 5.5 GHz IEEE 802.11n HT20 mode



UNII 5.5 GHz IEEE 802.11n HT40 mode



UNII 5.5 GHz IEEE 802.11ac VHT80 mode



UNII 5.8 GHz IEEE 802.11a mode

