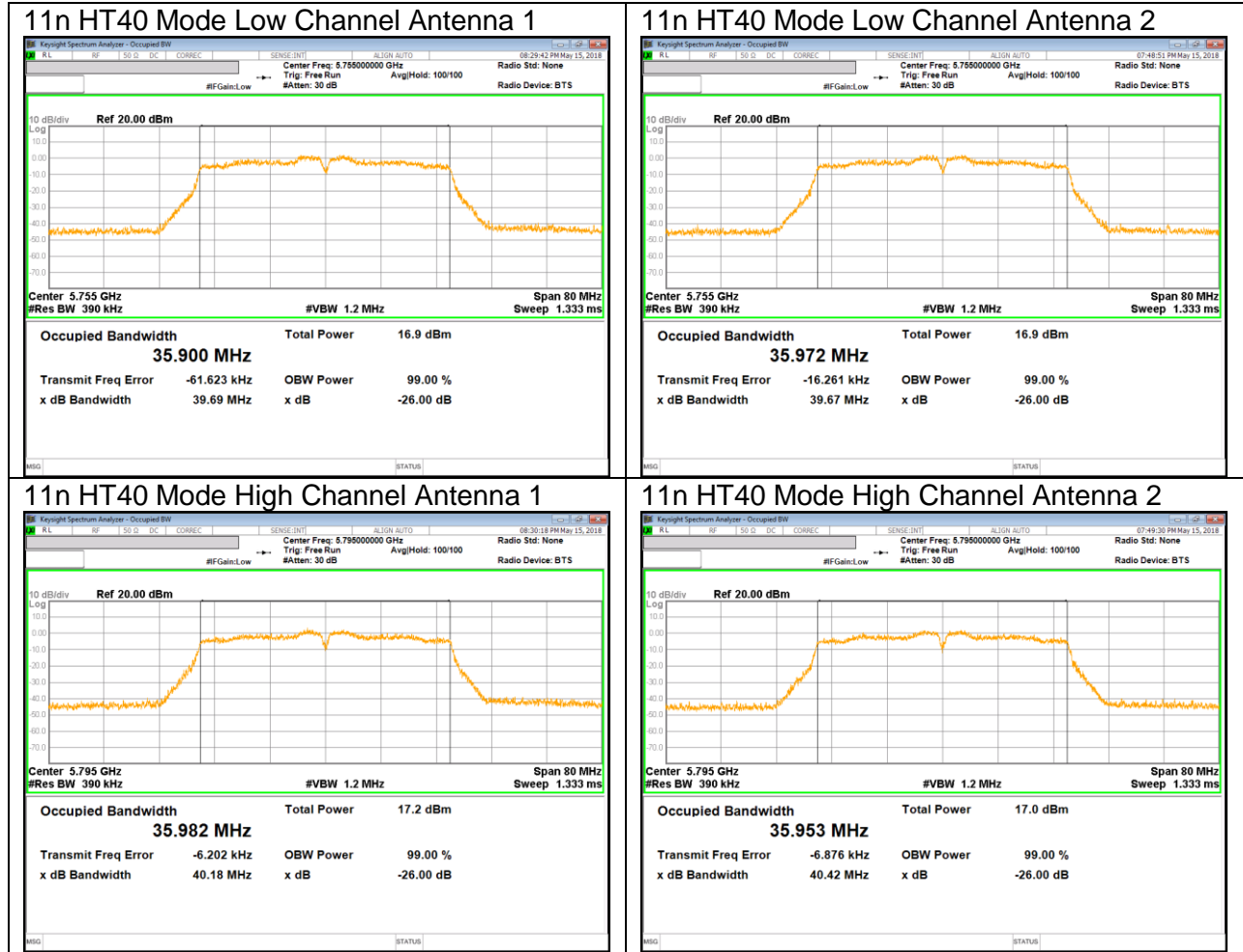
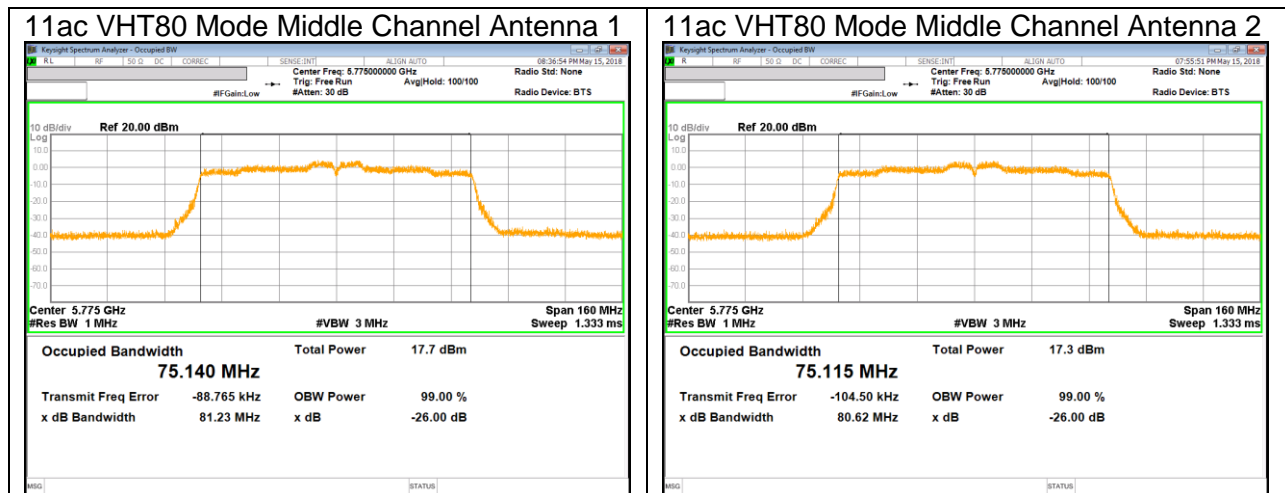


UNII 5.8 GHz IEEE 802.11n HT40 mode



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 $\geq 3 \times$ 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
 $= (5725 - (5720 - (21.00 / 2))) = 15.50$ MHz
 - 99% Bandwidth of UNII-3 band Portion
 $= (5720 + (21.00 / 2) - 5725) = 5.50$ MHz

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	16.379	16.408
Mid	5200	16.398	16.380
High	5240	16.359	16.379
Worst		16.408	

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	17.608	17.591
Mid	5200	17.597	17.619
High	5240	17.612	17.558
Worst		17.619	

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	36.000	35.964
High	5230	35.932	35.945
Worst		36.000	

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	75.134	75.374
Worst		75.374	

9.4.5.802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5260	16.377	16.373
Mid	5300	16.380	16.355
High	5320	16.362	16.363
Worst		16.380	

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	17.618	17.595
Mid	5300	17.578	17.578
High	5320	17.589	17.603
Worst		17.618	

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	35.952	35.937
High	5310	35.937	35.973
Worst		35.973	

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	75.053	75.252
Worst		75.252	

9.4.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Low	5500	16.379	16.405
Mid	5580	16.380	16.392
High	5700	16.371	16.369
Straddle	5720	13.195	13.195
Worst		16.405	

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	17.587	17.619
Mid	5580	17.591	17.589
High	5700	17.602	17.610
Straddle	5720	13.793	13.813
Worst		17.619	

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	36.019	35.909
Mid	5550	36.058	36.044
High	5670	36.070	36.003
Straddle	5710	33.014	33.018
Worst		36.070	

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	75.188	74.973
High	5610	75.114	75.120
Straddle	5690	72.639	72.562
Worst		75.188	

9.4.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5720	3.195	3.194
Low	5745	16.358	16.393
Mid	5785	16.409	16.368
High	5825	16.369	16.385
Worst		16.409	

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	3.793	3.813
Low	5745	17.619	17.603
Mid	5785	17.619	17.608
High	5825	17.629	17.605
Worst		17.629	

9.4.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

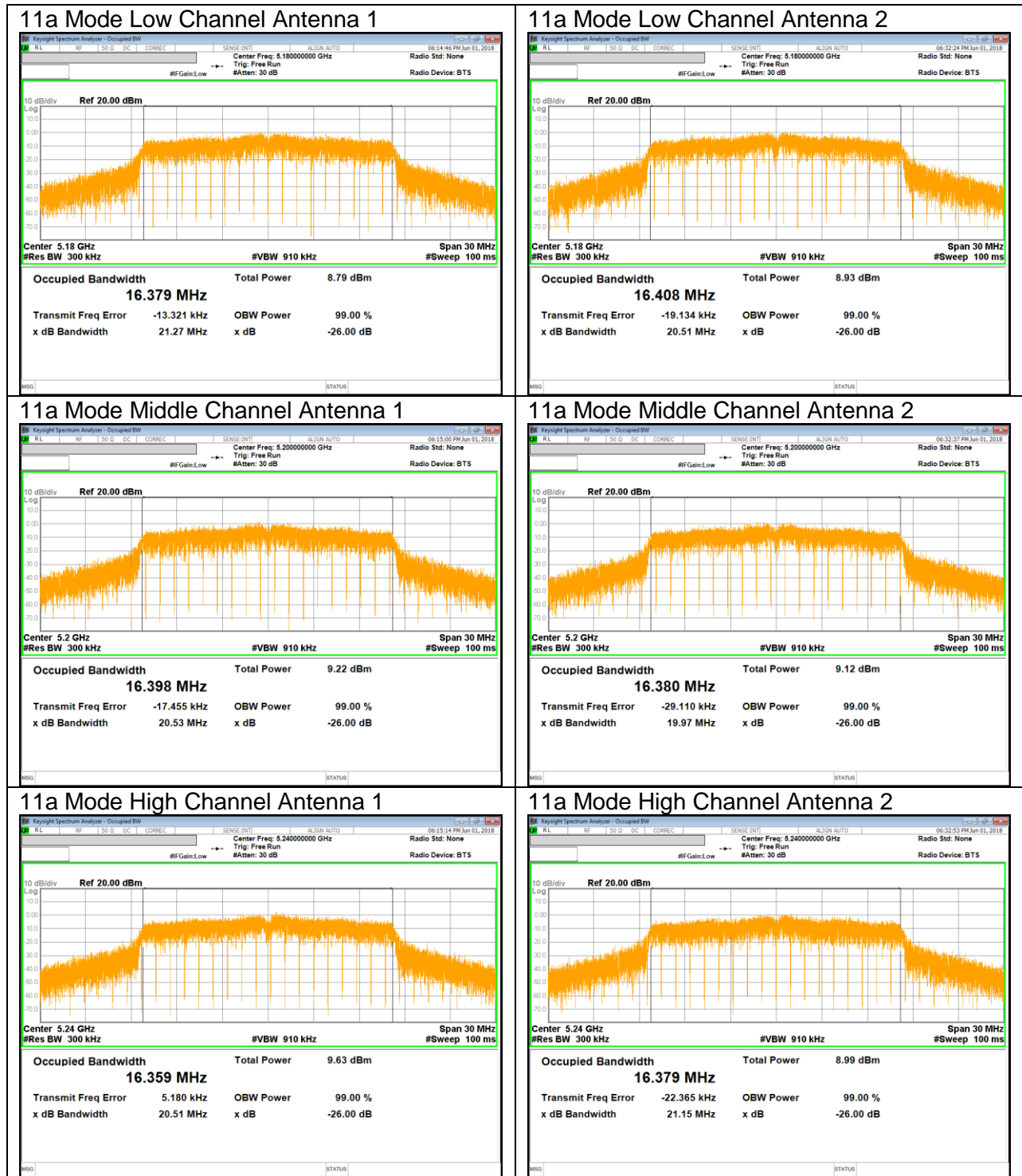
Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5710	3.014	3.017
Low	5755	36.006	36.025
High	5795	35.998	36.000
Worst		36.025	

9.4.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

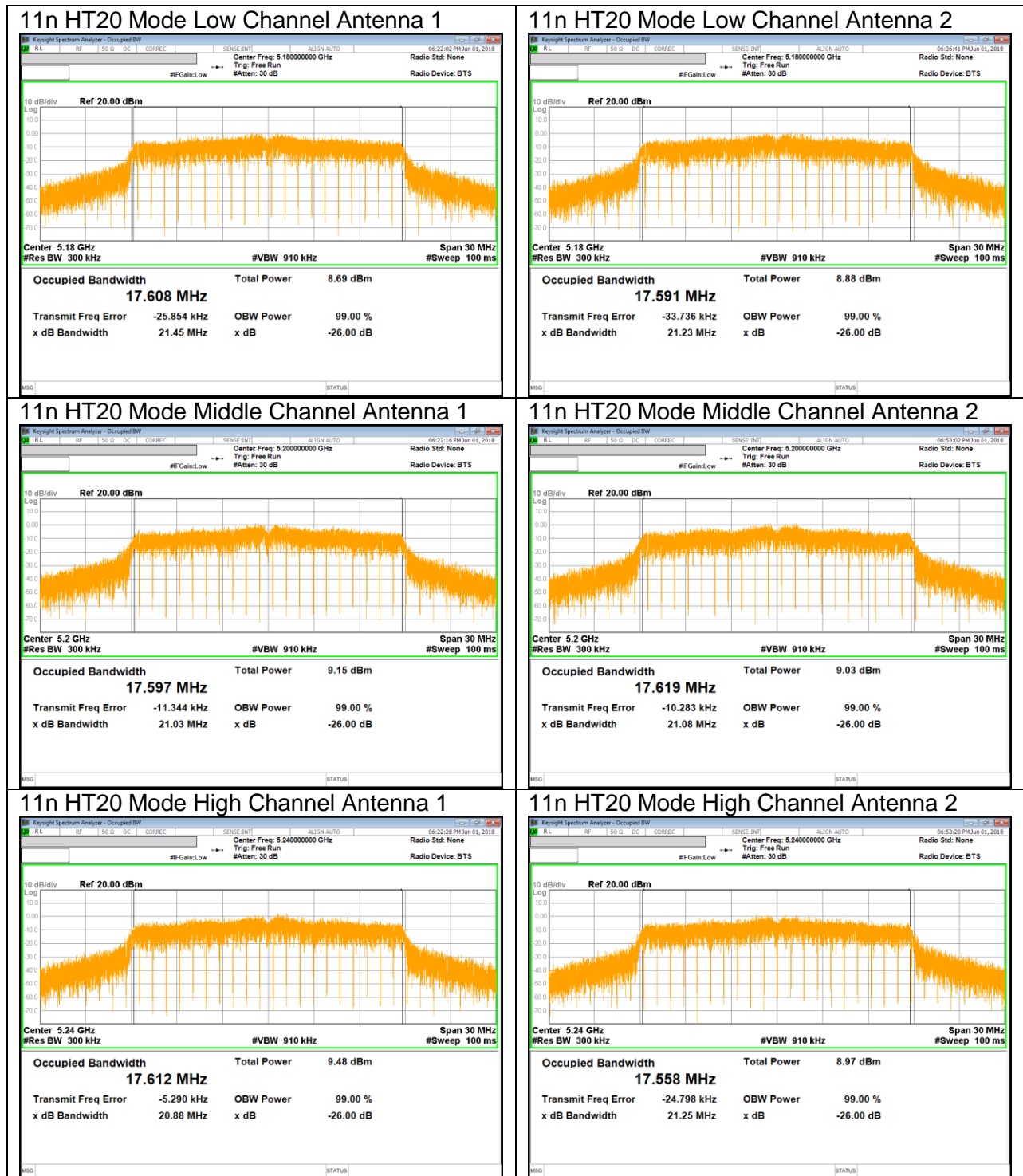
Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Antenna 1	Antenna 2
Straddle	5690	2.639	2.561
Middle	5775	75.258	75.293
Worst		75.293	

9.4.17. 99% BANDWIDTH PLOTS

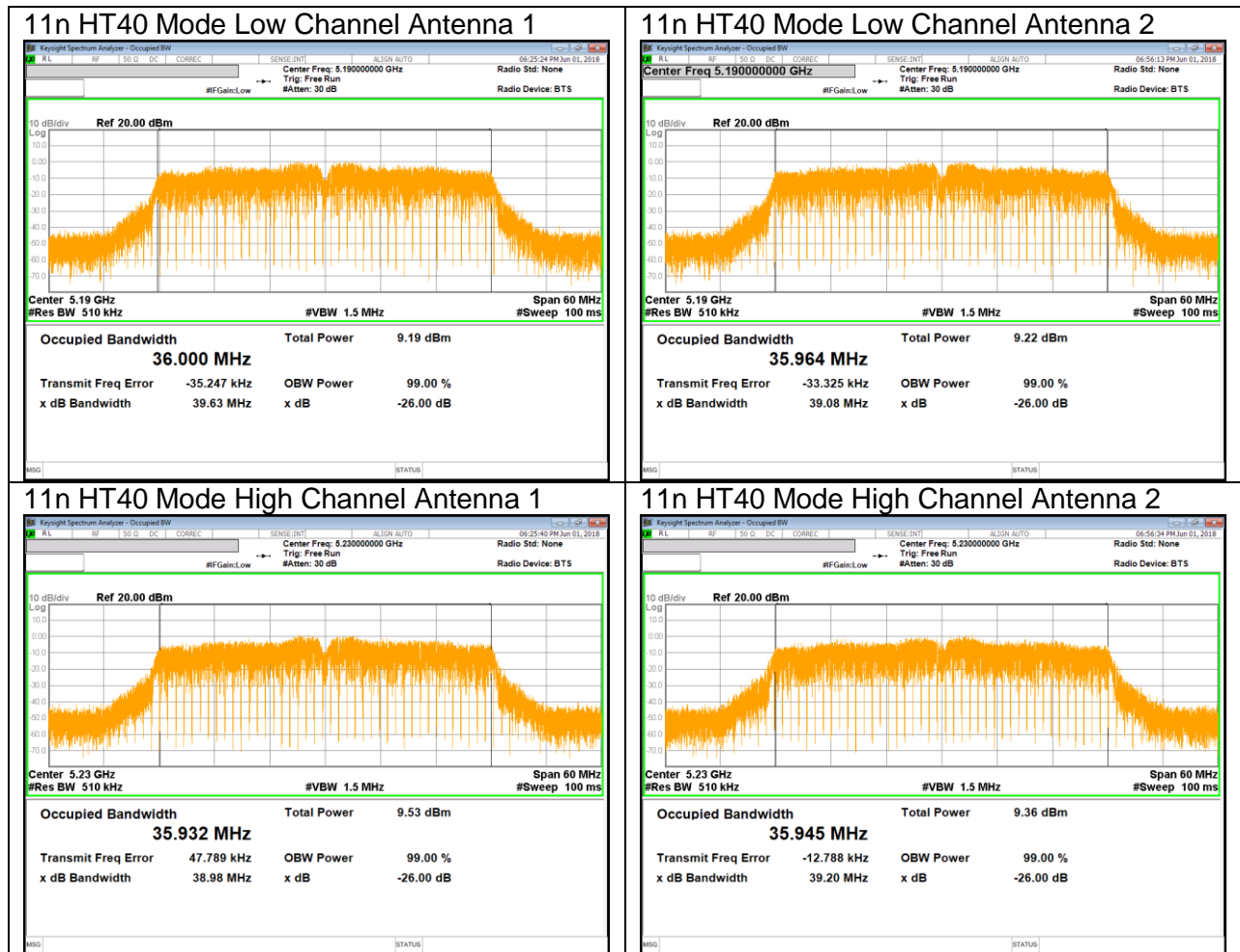
UNII 5.2 GHz IEEE 802.11a mode



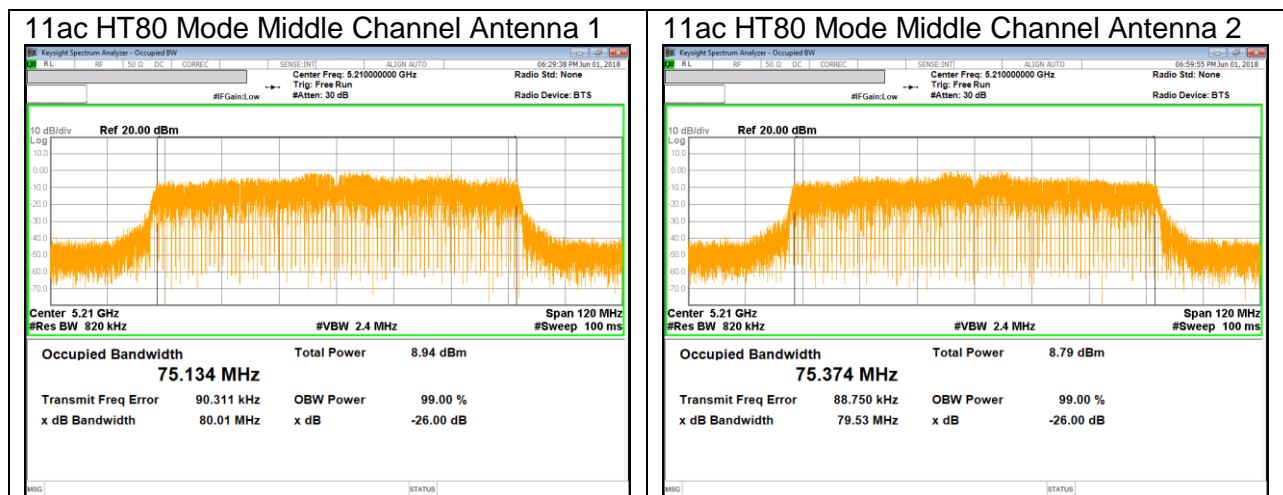
UNII 5.2 GHz IEEE 802.11n HT20 mode



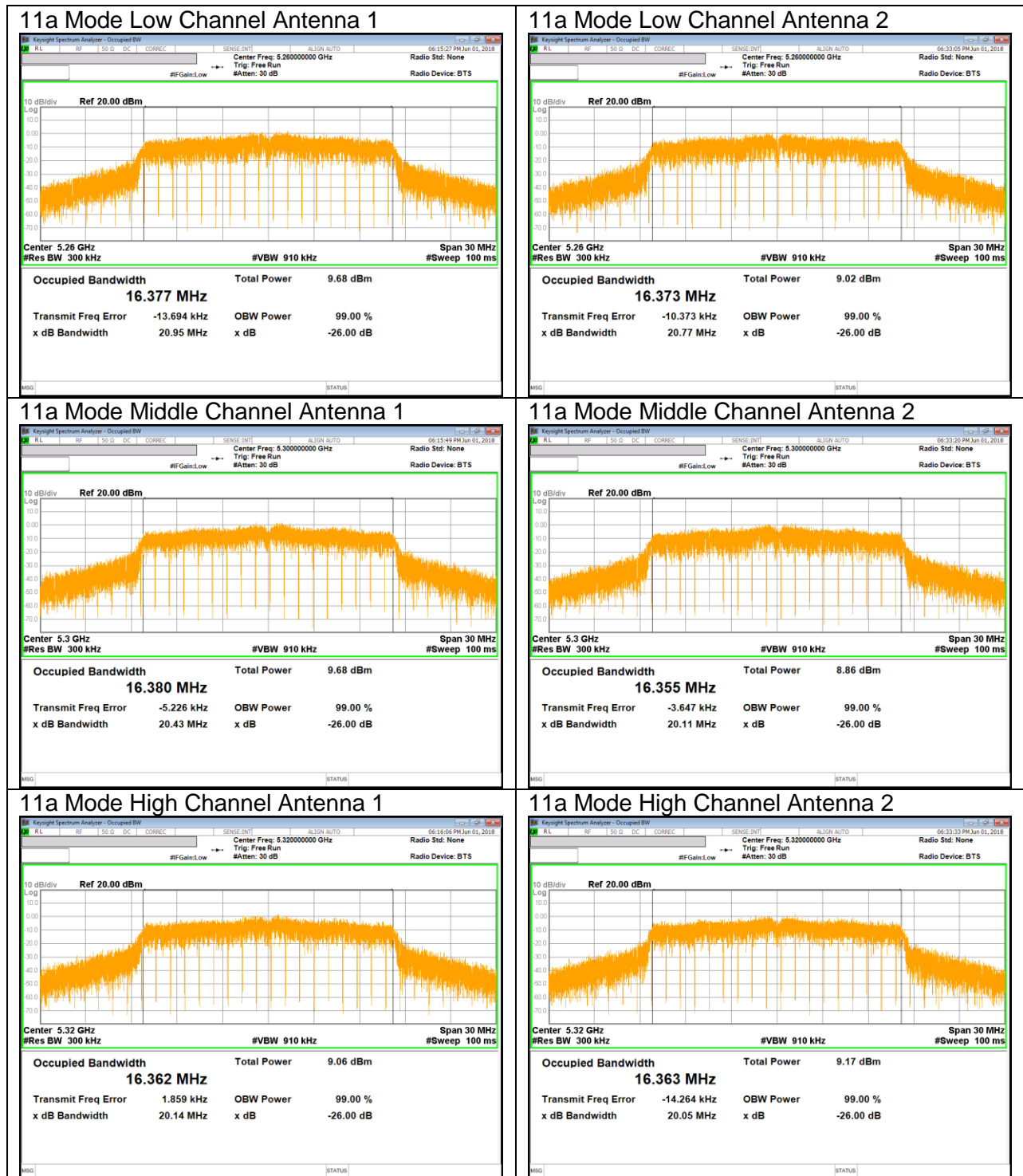
UNII 5.2 GHz IEEE 802.11n HT40 mode



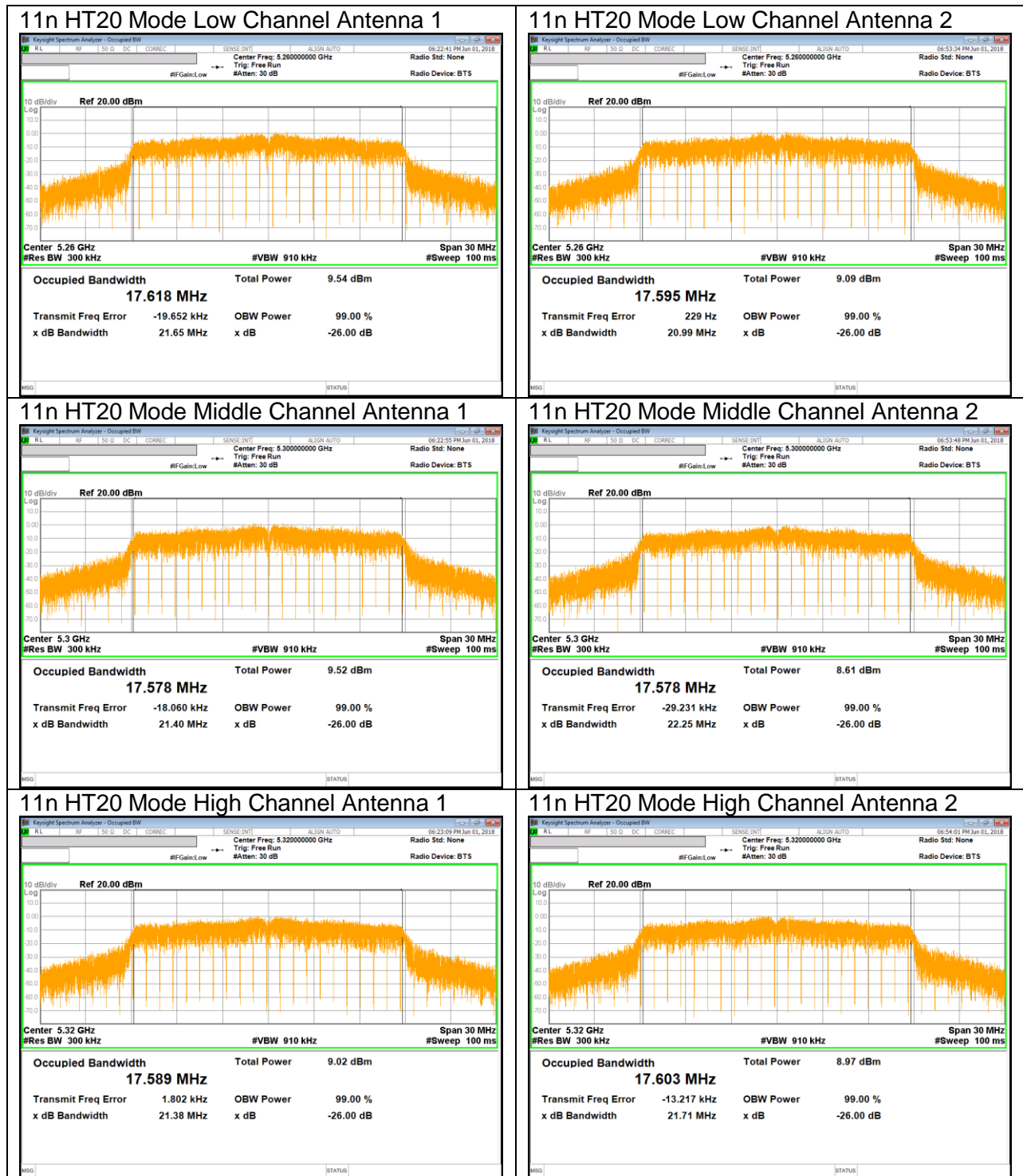
UNII 5.2 GHz IEEE 802.11ac VHT80 mode



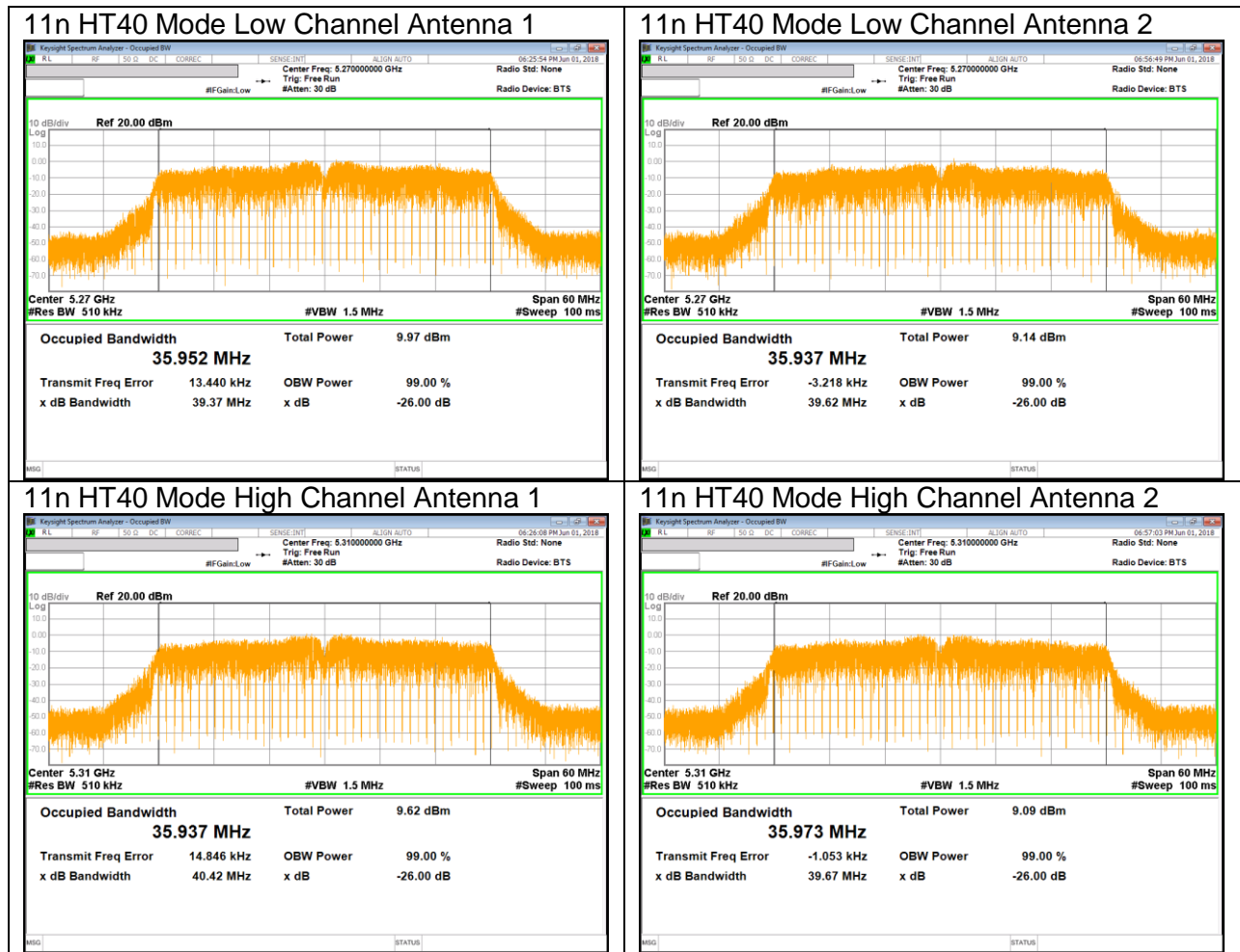
UNII 5.3 GHz IEEE 802.11a mode



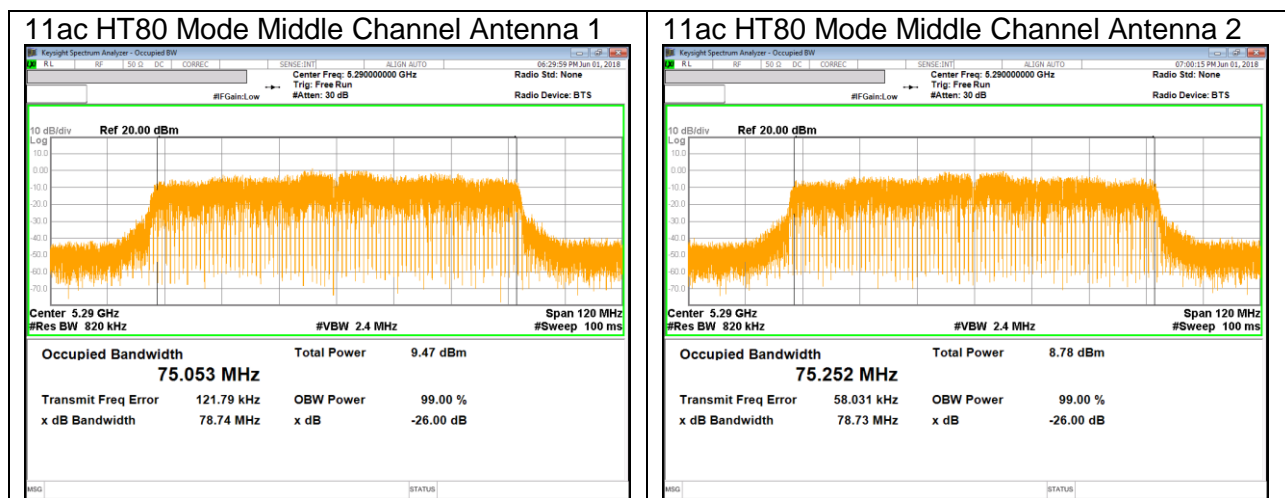
UNII 5.3 GHz IEEE 802.11n HT20 mode



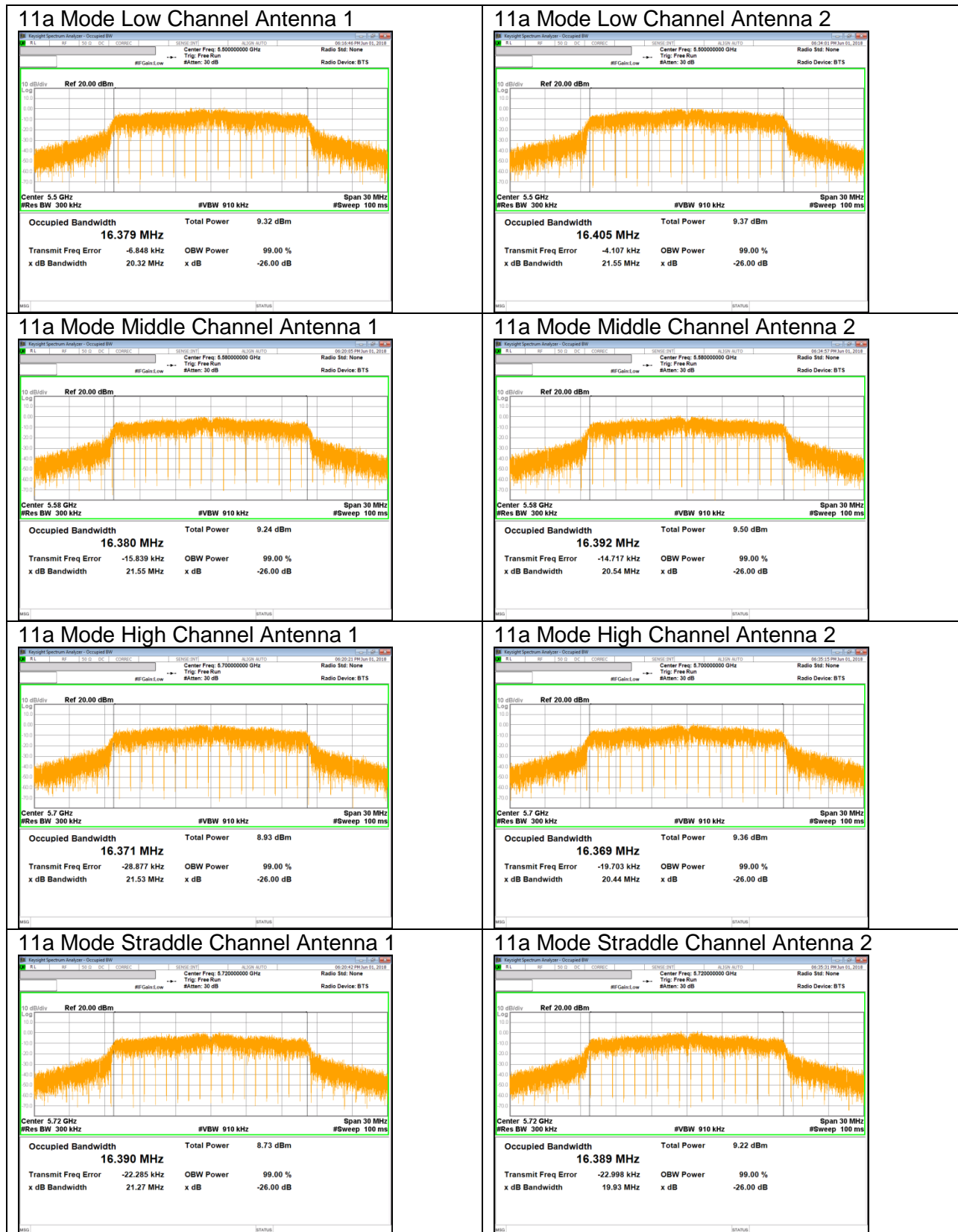
UNII 5.3 GHz IEEE 802.11n HT40 mode



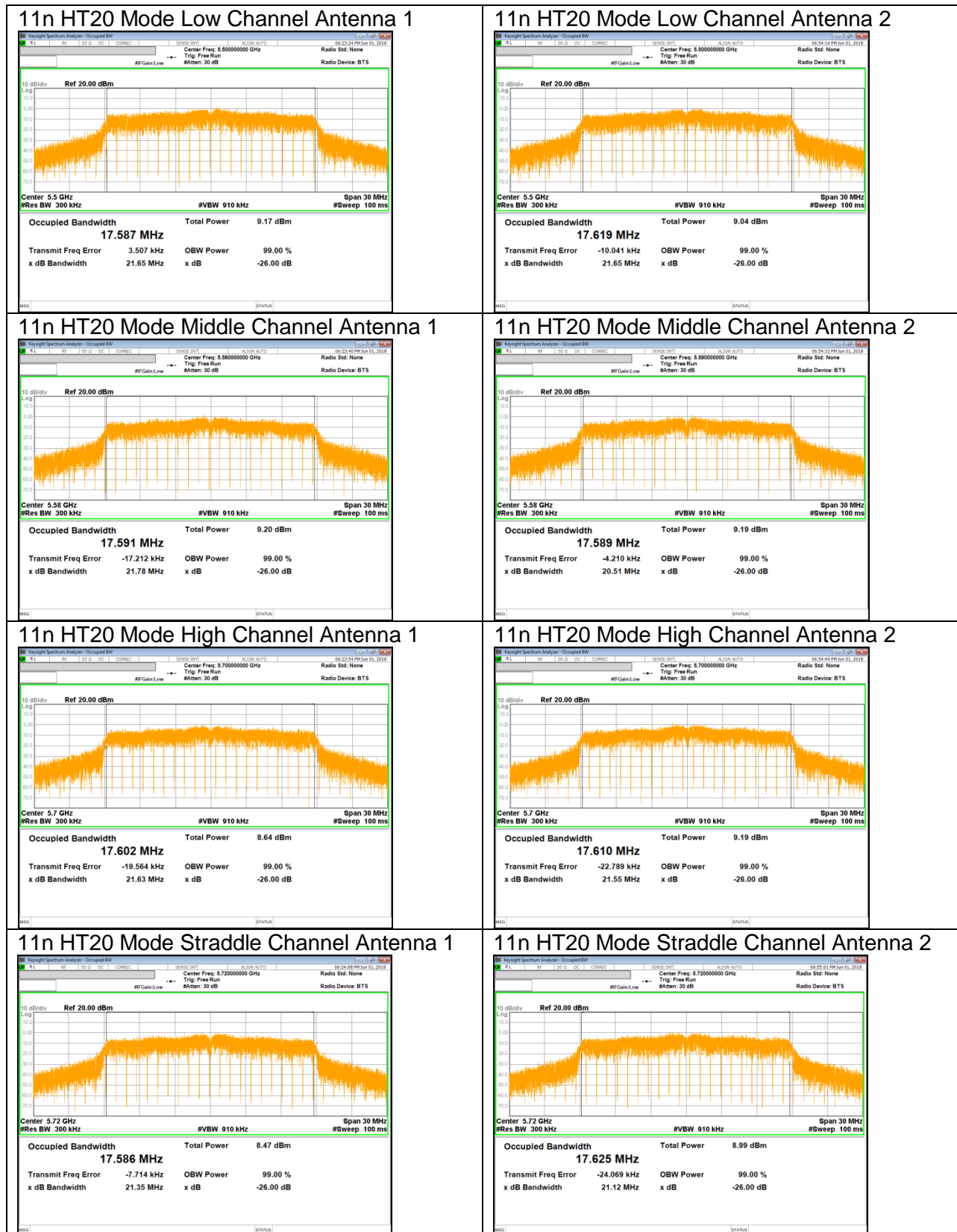
UNII 5.3 GHz IEEE 802.11ac VHT80 mode



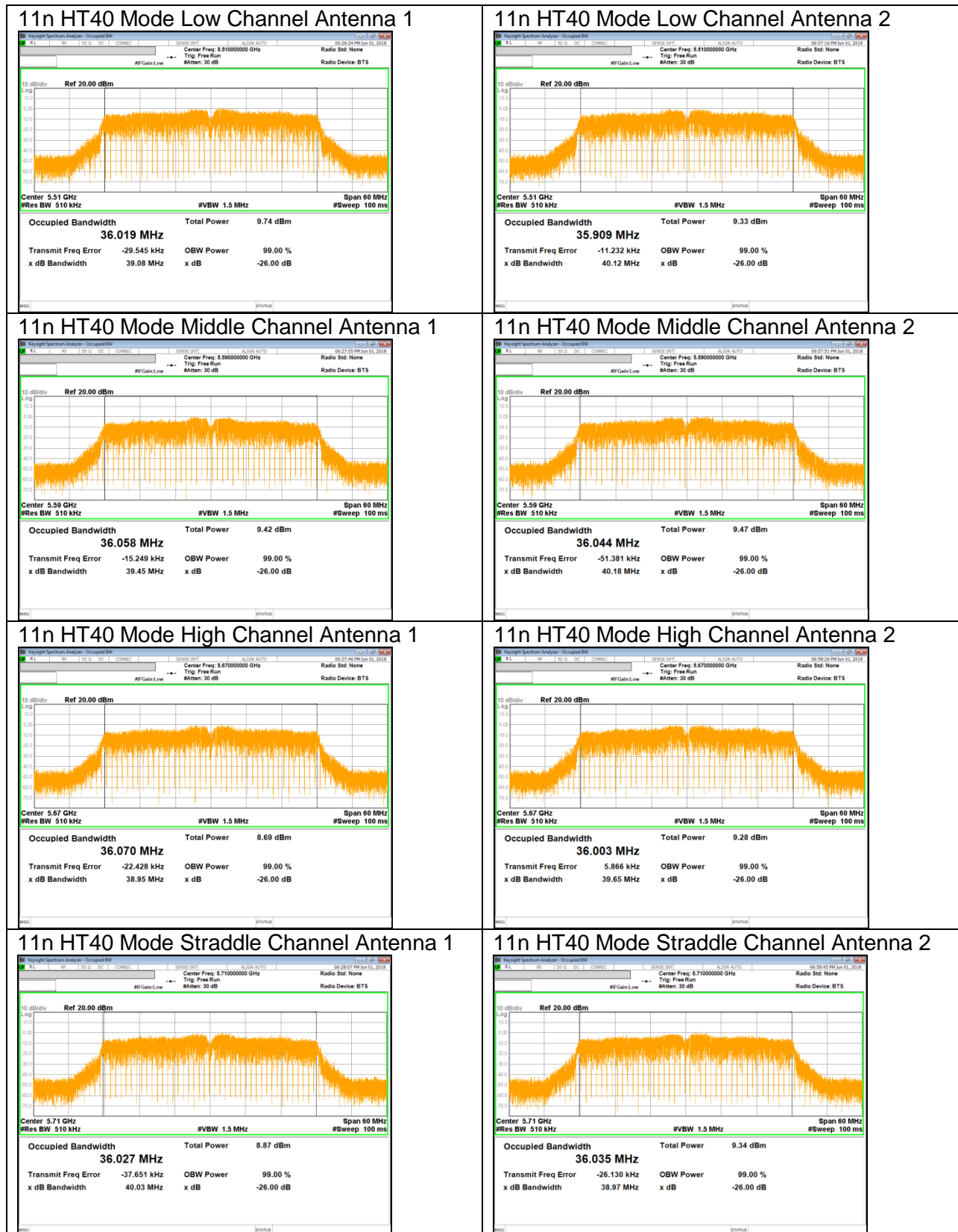
UNII 5.5 GHz IEEE 802.11a mode



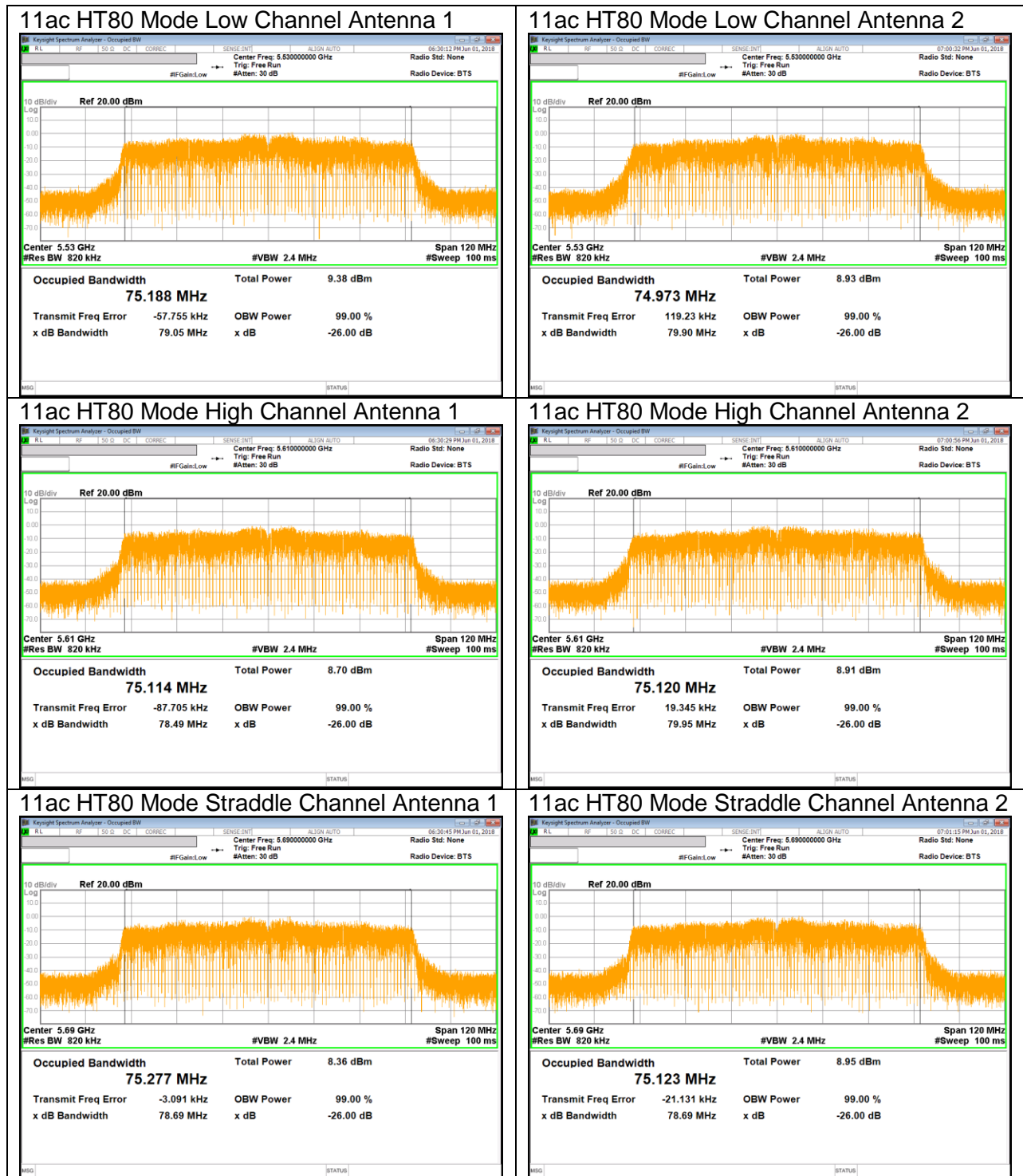
UNII 5.5 GHz IEEE 802.11n HT20 mode



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

