

A.5 OCCUPIED BANDWIDTH/26DB BANDWIDTH

Test Date	2021/12/24 ~ 2022/1/5	Temp./Hum.	20 ~ 22°C/68%
Cable Loss	1.9dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		
Simultaneous Factor 10 log(n)(Note: "n" is antenna number)		802.11a: 0dB 802.11n/ac/ax: 3dB	

A.5.1 Occupied Bandwidth/26dB Bandwidth

● OFDM Modulation

Mode	U-NII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz) (Reference only)	Limit
802.11ax-HE20	5	5955	23.23	18.940	≤320MHz
		6175	23.55	19.009	
		6415	23.02	18.998	
	6	6435	23.02	18.996	
		6475	22.94	19.037	
		6515	22.89	19.021	
	7	6535	23.67	18.980	
		6695	22.54	18.967	
		6855	23.74	18.997	
	8	6875	22.41	18.978	
		6995	23.44	18.968	
		7115	23.98	18.969	
802.11ax-HE40	5	5965	42.09	37.725	≤320MHz
		6165	40.51	37.864	
		6405	42.26	37.707	
	6	6445	41.31	37.738	
		6485	40.48	37.800	
		6525	41.59	37.722	
	7	6685	41.83	37.765	
		6845	42.76	37.760	
		6885	41.75	37.886	
	8	7005	42.52	37.862	
		7085	40.09	37.626	

Note: All results have been included cable loss and Simultaneous Factor.

Mode	U-NII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz) (Reference only)	Limit
802.11ax-HE80	5	5985	81.62	76.782	≤320MHz
		6145	81.48	76.621	
		6385	81.00	76.567	
	6	6465	81.10	76.628	
		6545	81.33	76.526	
		6625	80.29	76.537	
	7	6705	81.65	76.466	
		6785	81.17	76.660	
		6865	80.55	76.249	
	8	6945	80.28	76.793	
7025		81.12	76.460		
7025		81.12	76.460		
802.11ax-HE160	5	6025	161.70	154.37	≤320MHz
		6185	161.50	154.65	
		6345	161.70	154.64	
	6	6505	161.60	153.95	
		6665	161.70	154.20	
	7	6825	161.60	154.02	
		6985	161.60	154.02	
	8	6985	161.60	154.02	

Note: All results have been included cable loss and Simultaneous Factor.

● OFDMA Modulation

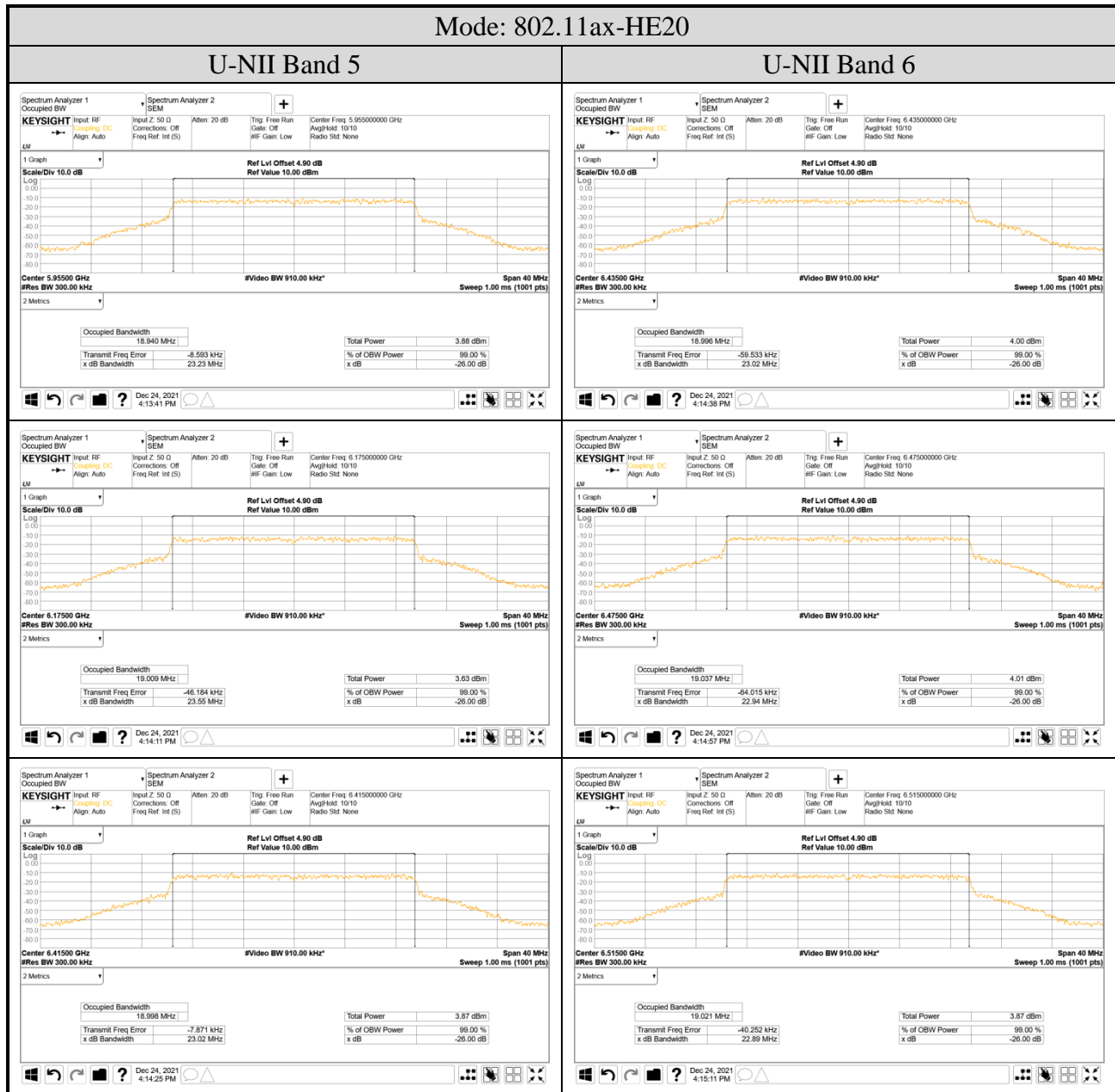
Tones	RU Index	Mode	U-NII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz) (Reference only)	Limit
26T	18	802.11ax- HE40	5	6145	39.32	35.993	≤320MHz
52T	39	802.11ax- HE20	5	5955	18.76	17.080	
106T	54	802.11ax- HE20	5	5955	21.13	18.285	
242T	S61	802.11ax- HE160	8	6985	24.32	20.185	
484T	66	802.11ax- HE160	5	6345	42.74	38.352	
996T	67	802.11ax- HE160	5	6345	82.39	77.022	

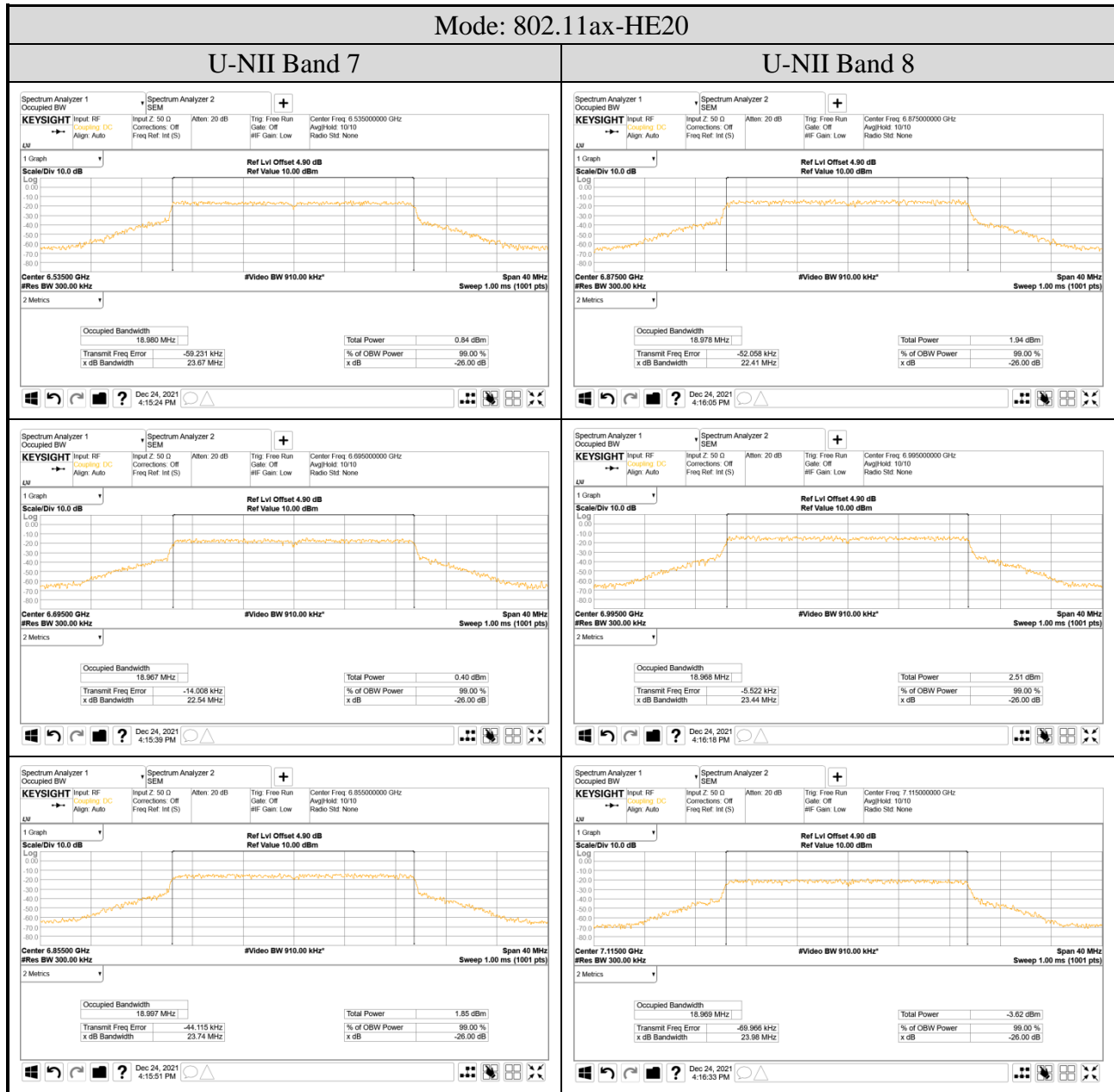
Note: 1. All results have been included cable loss and Simultaneous Factor.

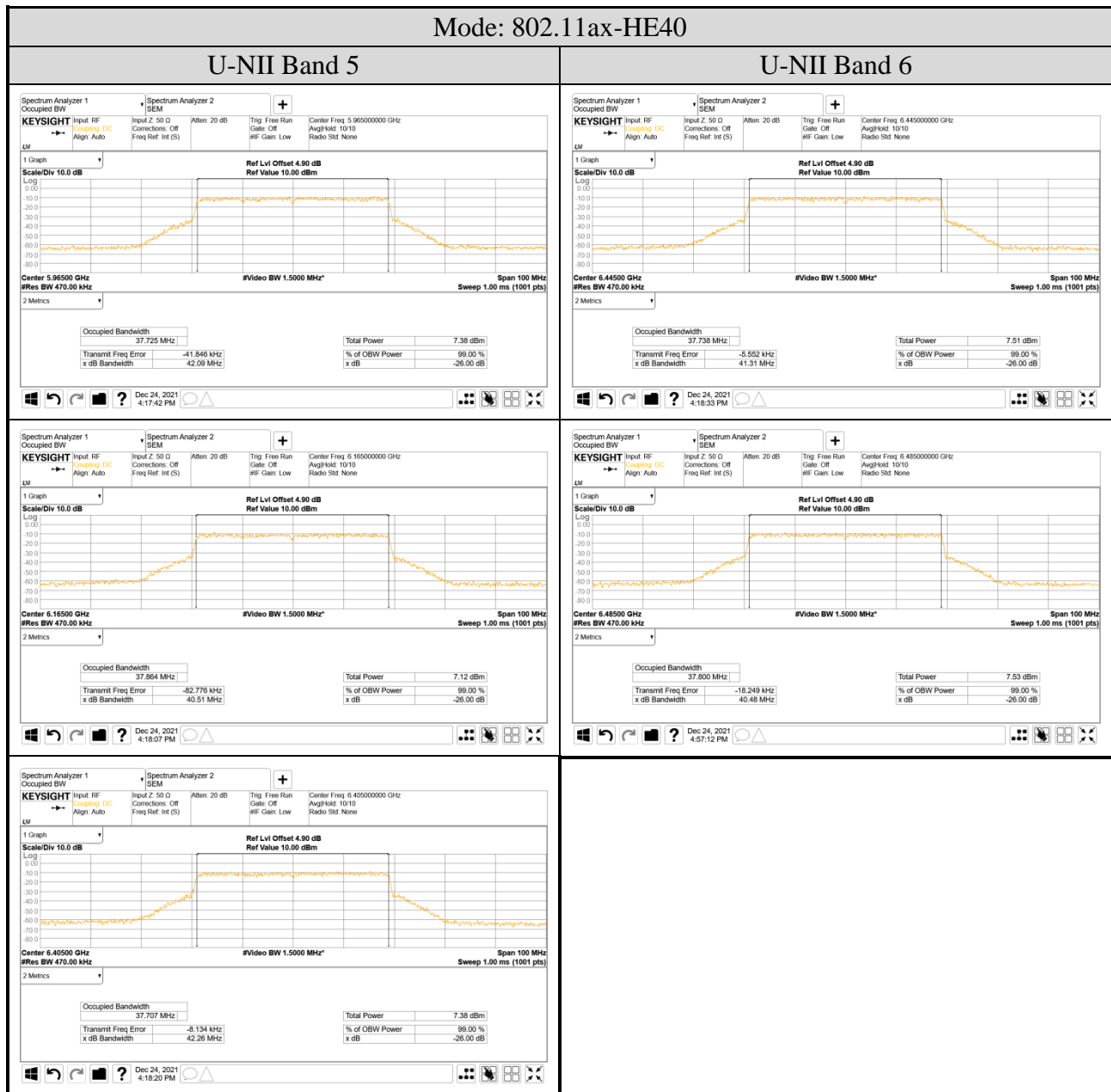
2. After preliminary test, we present worst case with maximum power of each RU type.

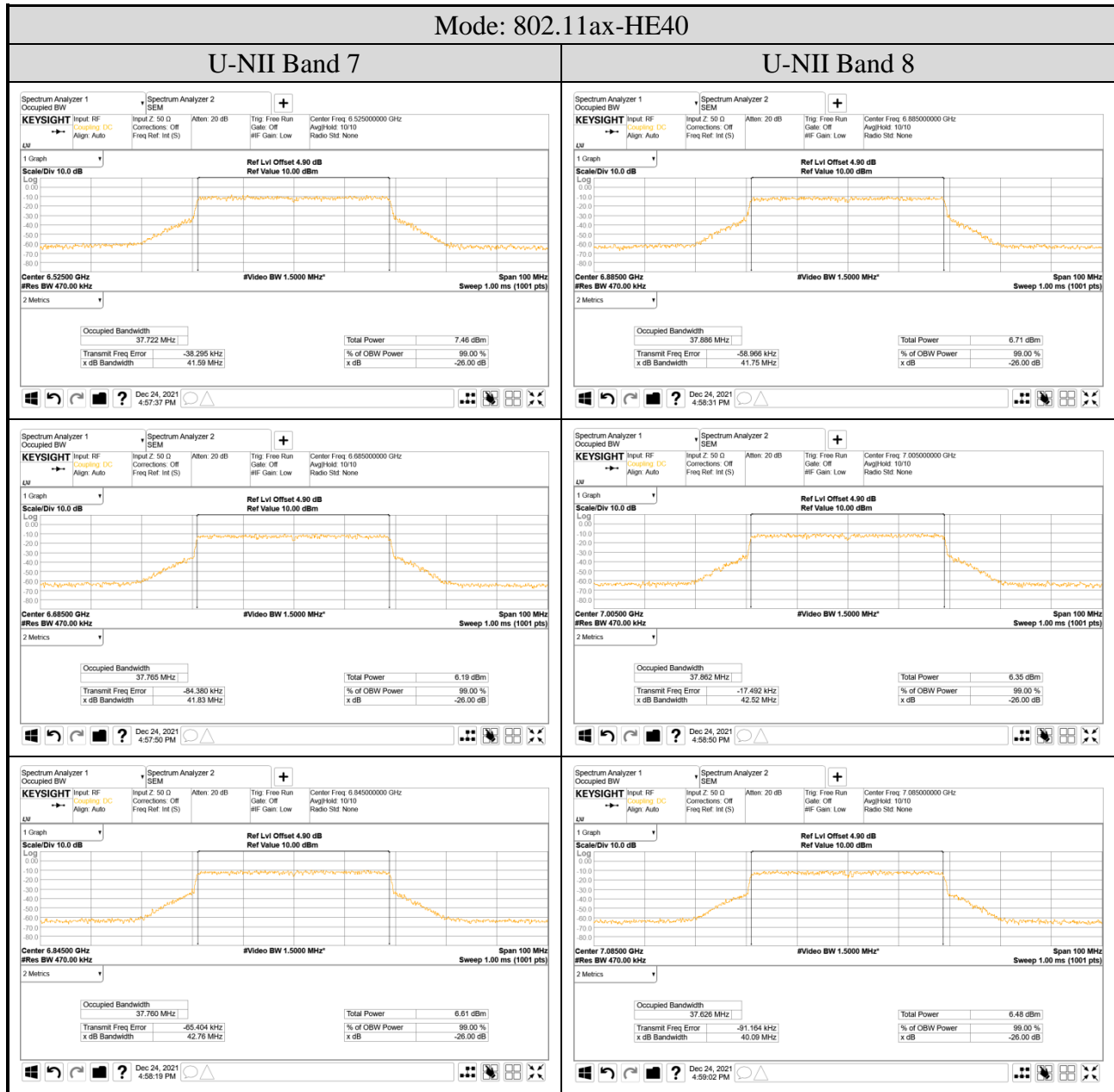
A.5.2 Measurement Plots

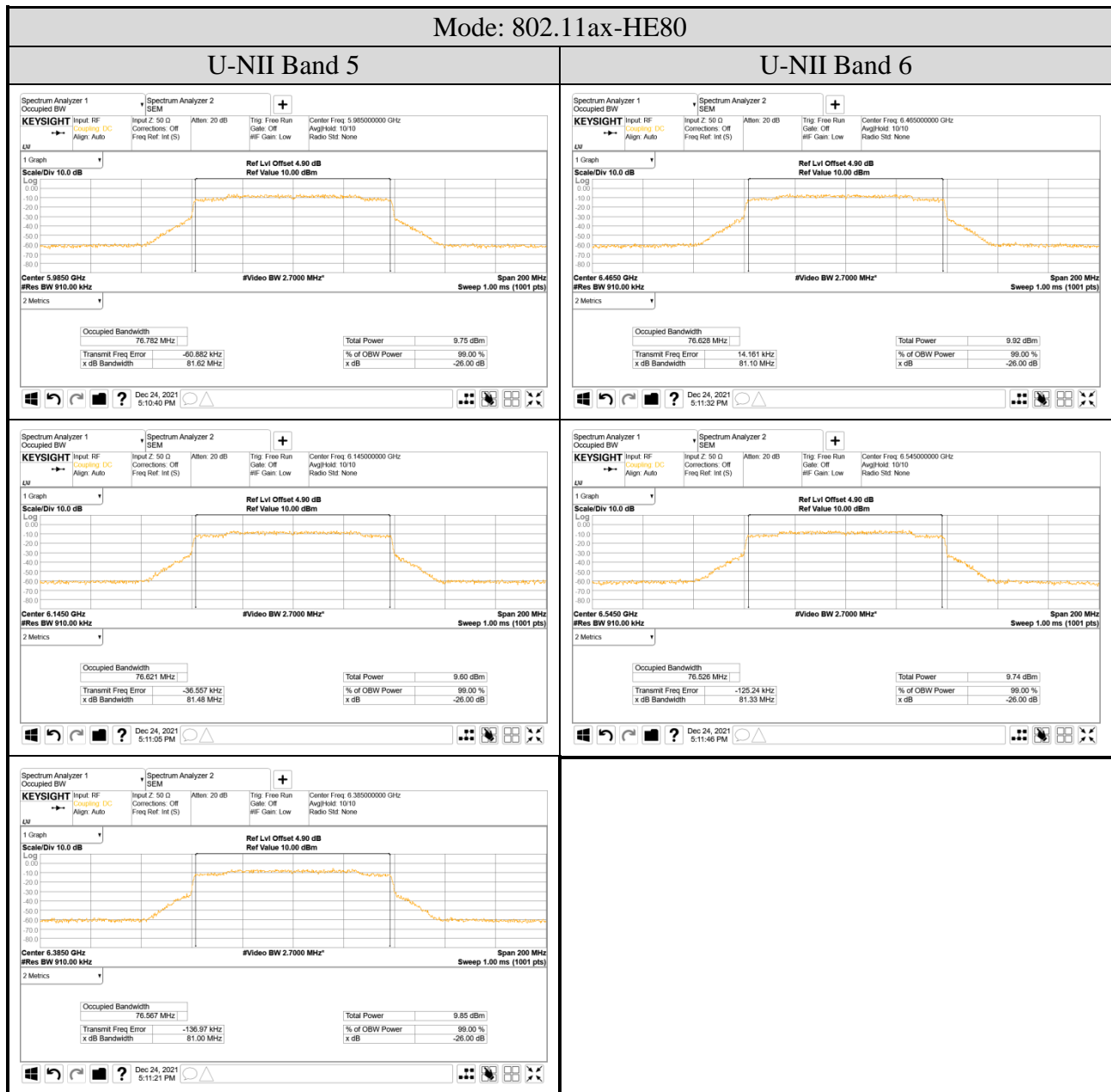
● OFDM Modulation

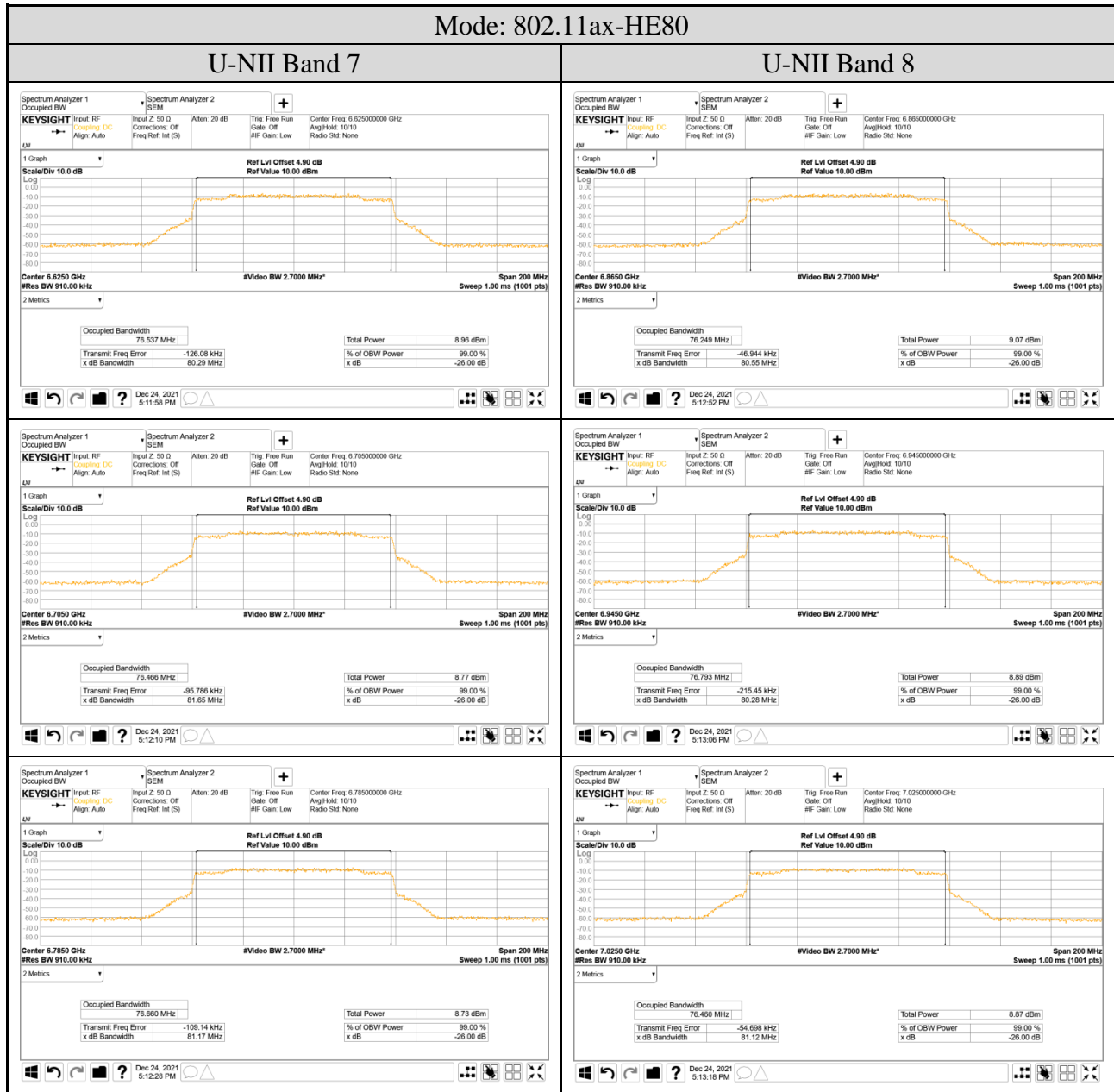


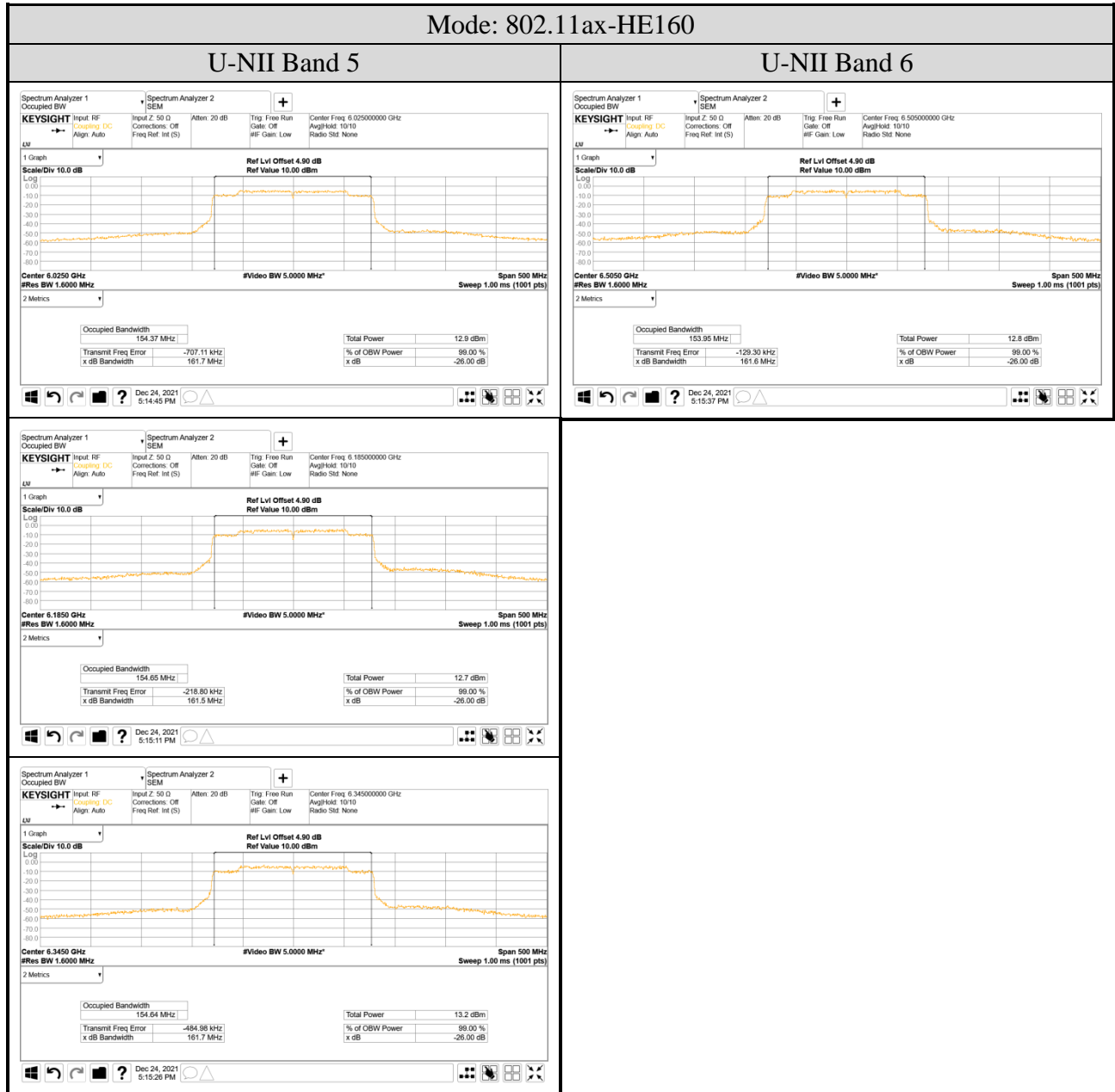


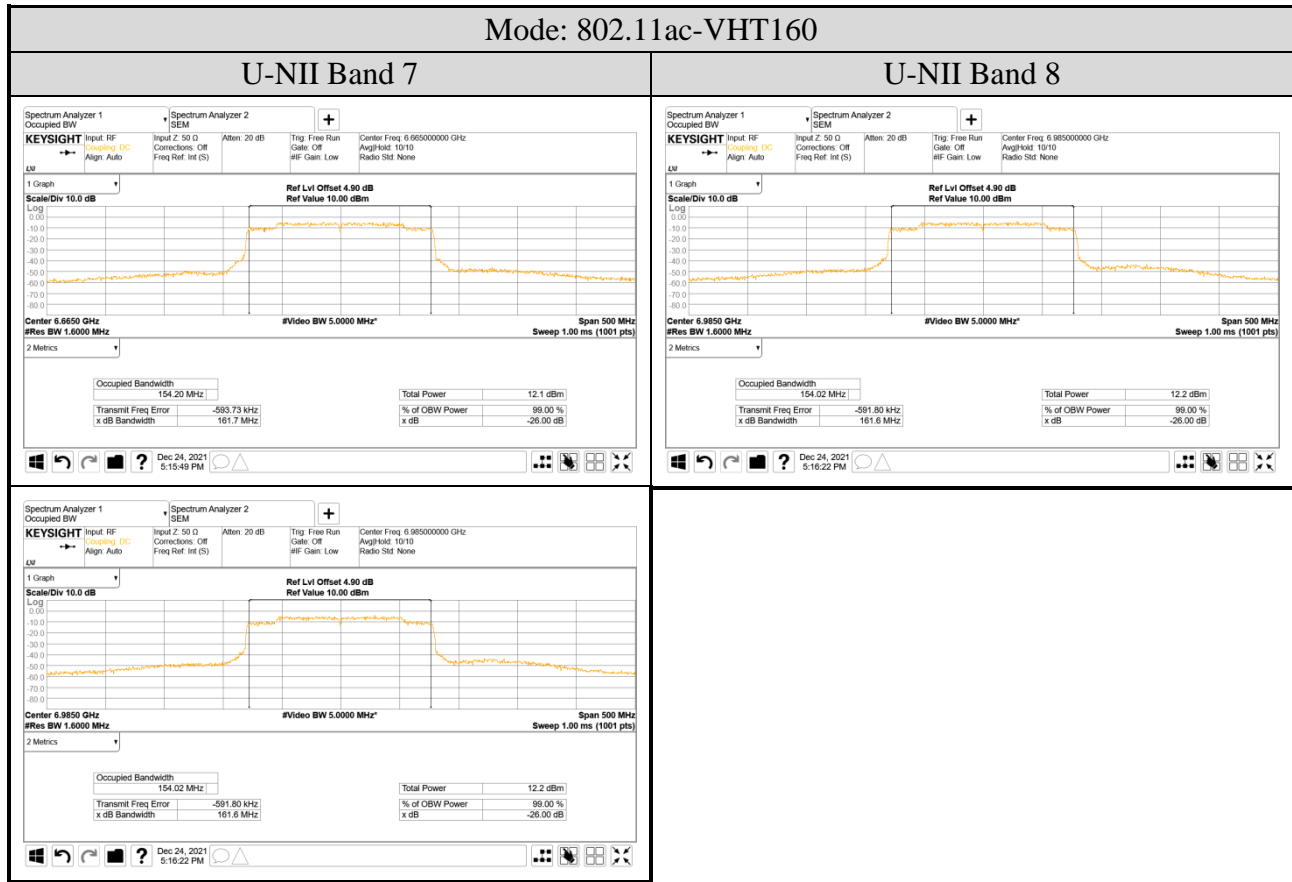




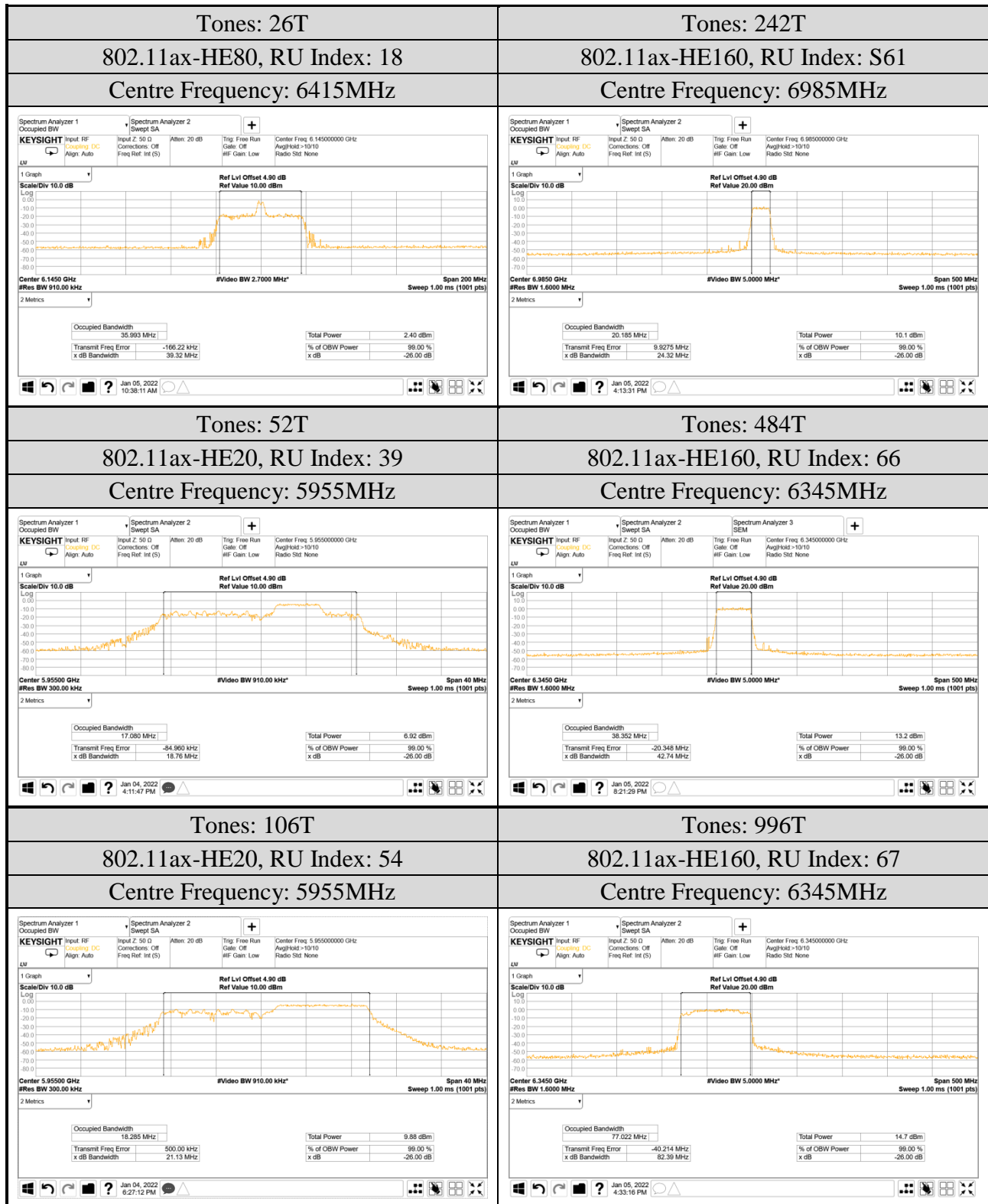








● OFDMA Modulation



A.6 OUT OF BAND (CONDUCTED)

Test Date	2022/01/04	Temp./Hum.	20°C/65%
Cable Loss	1.9dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		
Simultaneous Factor 10 log(n)(Note: "n" is antenna number)		802.11a: 0dB 802.11n/ac/ax: 3dB	

A.6.1 Out of Band Result

- OFDM Modulation

SKU#1 (with INPAQ Antenna)

Mode	U-NII Band	Centre Frequency (MHz)	Band Edge (dBm)		10log (1/X)	Antenna Gain (dBi)	Band Edge (e.i.r.p.) (dBm)	
			Peak	Average			Peak	Average
802.11ax-HE20	5	5955	-52.910	-63.132	N/A	4.1	-48.810	-59.032
	8	7115	-22.910	-33.815		4.2	-18.710	-29.615
802.11ax-HE40	5	5965	-52.620	-62.187	N/A	4.1	-48.520	-58.087
	8	7085	-54.290	-63.327		4.2	-50.090	-59.127
802.11ax-HE80	5	5985	-52.040	-61.080	N/A	4.1	-47.940	-56.980
	8	7025	-56.590	-65.594		4.2	-52.390	-61.394
802.11ax-HE160	5	6025	-42.320	-52.487	N/A	4.1	-38.220	-48.387
	8	6985	-44.290	-53.304		4.2	-40.090	-49.104

Note: All results have been included cable loss and Simultaneous Factor.

SKU#2 (with LUXSHARE-ICT Antenna)

Mode	U-NII Band	Centre Frequency (MHz)	Band Edge (dBm)		10log (1/X)	Antenna Gain (dBi)	Band Edge (e.i.r.p.) (dBm)	
			Peak	Average			Peak	Average
802.11ax-HE20	5	5955	-52.910	-63.132	N/A	4.7	-48.210	-58.432
	8	7115	-22.910	-33.815		-1.6	-24.510	-35.415
802.11ax-HE40	5	5965	-52.620	-62.187	N/A	4.7	-47.920	-57.487
	8	7085	-54.290	-63.327		-1.6	-55.890	-64.927
802.11ax-HE80	5	5985	-52.040	-61.080	N/A	4.7	-47.340	-56.380
	8	7025	-56.590	-65.594		-1.6	-58.190	-67.194
802.11ax-HE160	5	6025	-42.320	-52.487	N/A	4.7	-37.620	-47.787
	8	6985	-44.290	-53.304		-1.6	-45.890	-54.904

Note: All results have been included cable loss and Simultaneous Factor.

● OFDMA Modulation

SKU#1 (with INPAQ Antenna)

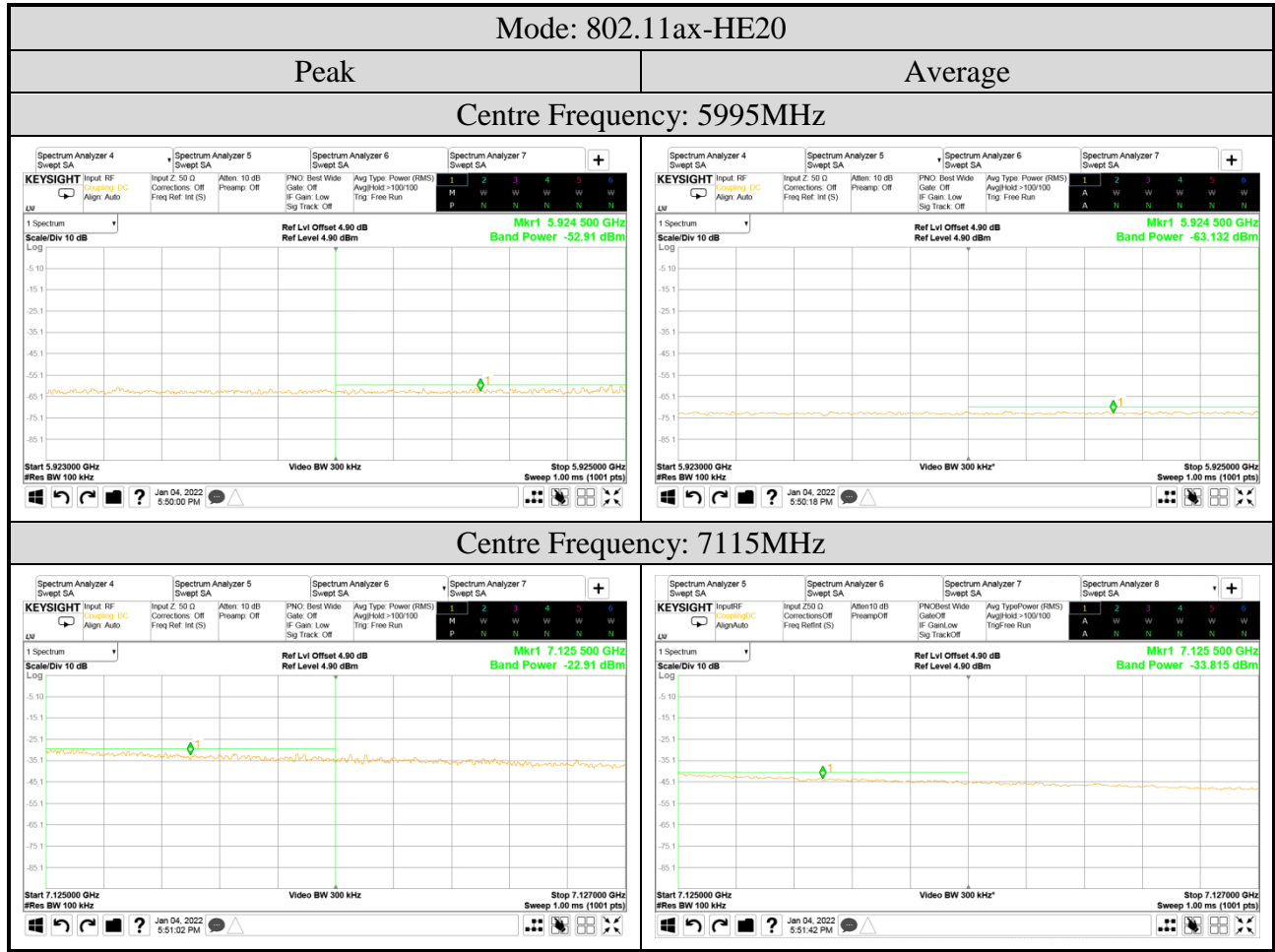
Tones	RU Index	Mode	U-NII Band	Centre Frequency (MHz)	Band Edge (dBm)		10log (1/X)	Antenna Gain (dBi)	Band Edge (e.i.r.p.) (dBm)	
					Peak	Average			Peak	Average
26T	0	802.11ax- HE20	5	5955	-66.230	-74.926	N/A	4.1	-62.130	-70.826
	17	802.11ax- HE40	8	7085	-65.620	-74.469		4.2	-61.420	-70.269
52T	37	802.11ax- HE20	5	5955	-65.980	-74.984	N/A	4.1	-61.880	-70.884
	44	802.11ax- HE40	8	7085	-65.560	-74.510		4.2	-61.360	-70.310
106T	53	802.11ax- HE20	5	5955	-65.680	-74.970	N/A	4.1	-61.580	-70.870
	56	802.11ax- HE40	8	7085	-65.700	-74.455		4.2	-61.500	-70.255
242T	62	802.11ax- HE40	8	7085	-65.500	-74.516	N/A	4.2	-61.300	-70.316
	61	802.11ax- HE80	5	5985	-65.970	-75.016		4.1	-61.870	-70.916
484T	65	802.11ax- HE80	5	5985	-65.700	-75.000	N/A	4.1	-61.600	-70.900
	S66	802.11ax- HE160	8	6985	-65.410	-74.521		4.2	-61.210	-70.321
996T	67	802.11ax- HE80	5	5985	-65.920	-74.955	N/A	4.1	-61.820	-70.855
	67	802.11ax- HE80	8	7025	-65.580	-74.473		4.2	-61.380	-70.273

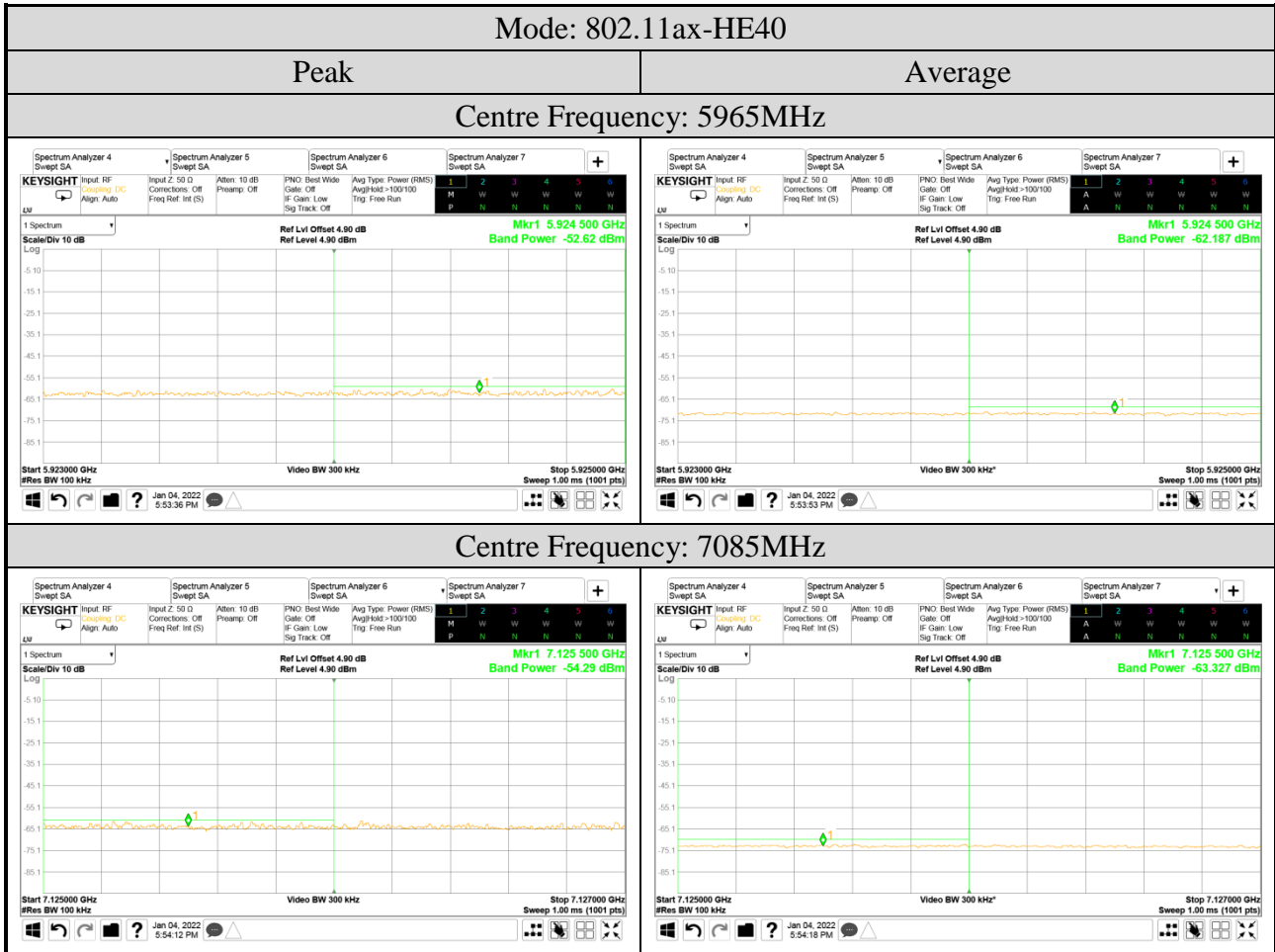
SKU#2 (with LUXSHARE-ICT Antenna)

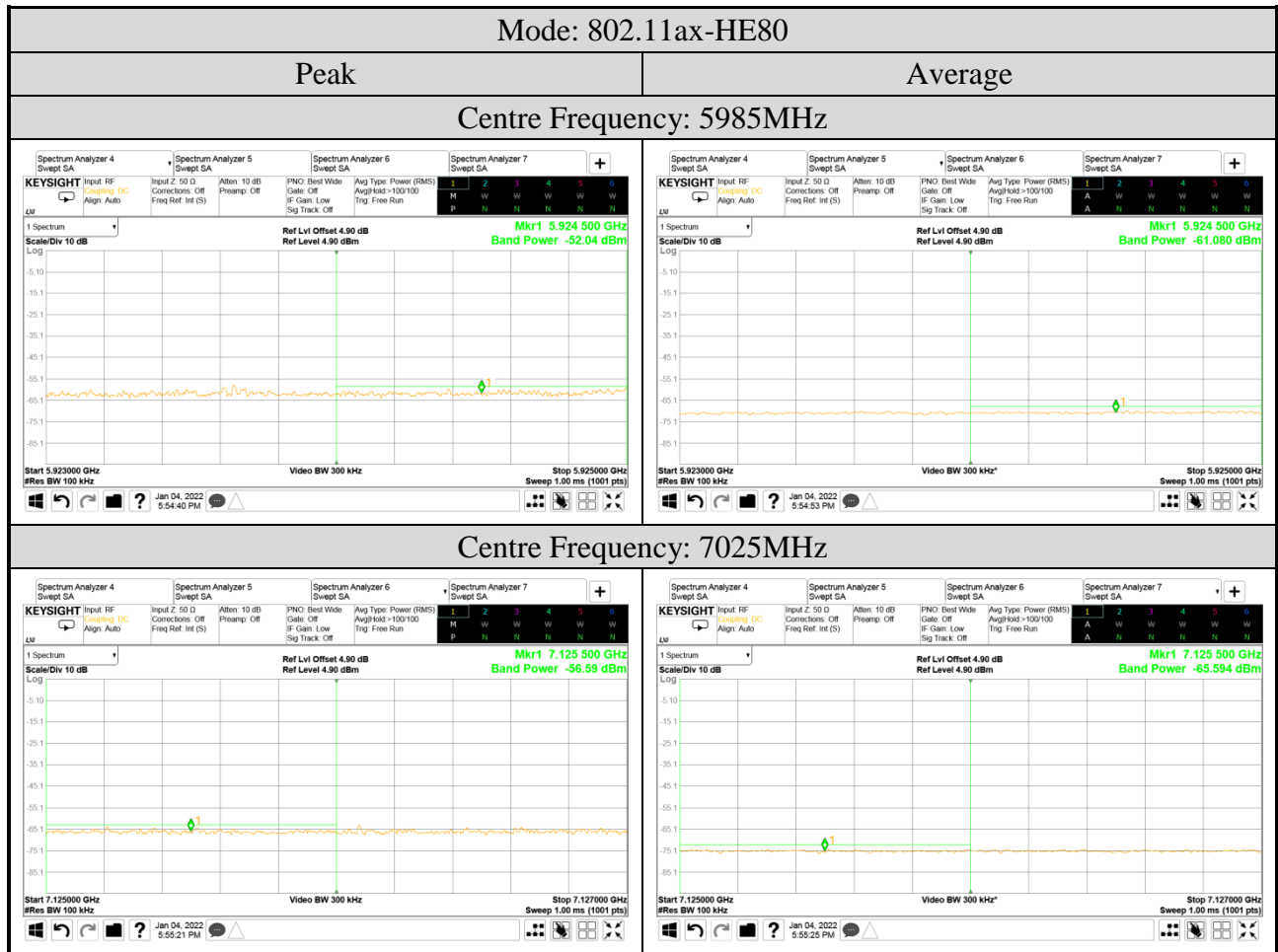
Tones	RU Index	Mode	U-NII Band	Centre Frequency (MHz)	Band Edge (dBm)		10log (1/X)	Antenna Gain (dBi)	Band Edge (e.i.r.p.) (dBm)	
					Peak	Average			Peak	Average
26T	0	802.11ax- HE20	5	5955	-66.230	-74.926	N/A	4.7	-61.530	-70.226
	17	802.11ax- HE40	8	7085	-65.620	-74.469		-1.6	-67.220	-76.069
52T	37	802.11ax- HE20	5	5955	-65.980	-74.984	N/A	4.7	-61.280	-70.284
	44	802.11ax- HE40	8	7085	-65.560	-74.510		-1.6	-67.160	-76.110
106T	53	802.11ax- HE20	5	5955	-65.680	-74.970	N/A	4.7	-60.980	-70.270
	56	802.11ax- HE40	8	7085	-65.700	-74.455		-1.6	-67.300	-76.055
242T	62	802.11ax- HE40	8	7085	-65.500	-74.516	N/A	-1.6	-67.100	-76.116
	61	802.11ax- HE80	5	5985	-65.970	-75.016		4.7	-61.270	-70.316
484T	65	802.11ax- HE80	5	5985	-65.700	-75.000	N/A	4.7	-61.000	-70.300
	S66	802.11ax- HE160	8	6985	-65.410	-74.521		-1.6	-67.010	-76.121
996T	67	802.11ax- HE80	5	5985	-65.920	-74.955	N/A	4.7	-61.220	-70.255
	67	802.11ax- HE80	8	7025	-65.580	-74.473		-1.6	-67.180	-76.073

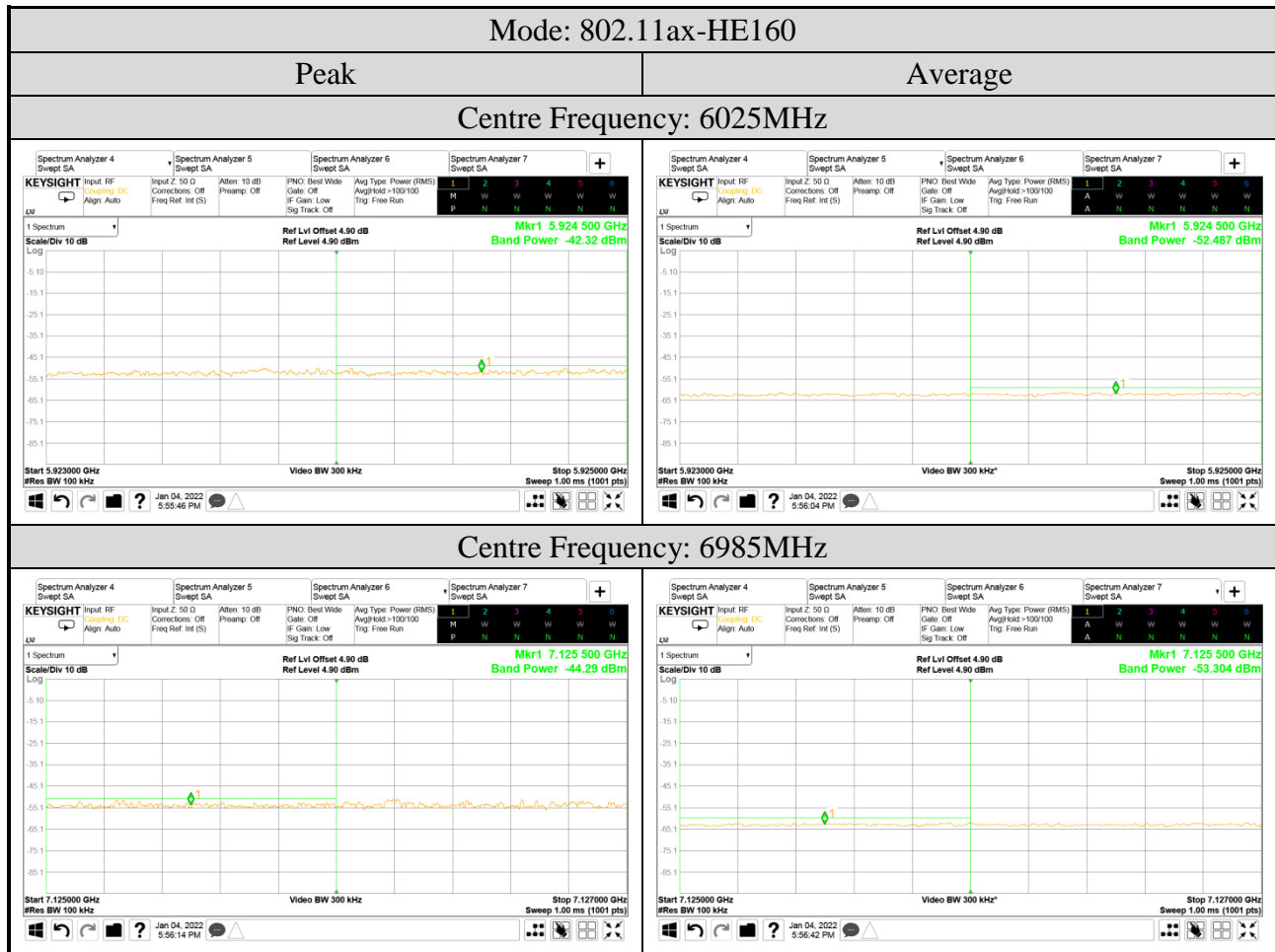
A.6.2 Measurement Plots

- OFDM Modulation









● OFDMA Modulation

