5.3. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode	Frequency (MHz)	RF Power setting in Test Software		Test Software Version
		ANT-0	ANT-1	
Mode 2	5180	11	11	QRCT Toolkit v4.0 Version 4.0.00175.0
	5200	11	11	
	5220	11	11	
	5240	11	11	
	5260	11	11	
	5280	11	11	
	5300	11	11	
	5320	11.5	11.5	
	5500	13	13	
	5520	13.5	13.5	
	5540	13.5	13.5	
	5560	13.5	13.5	
	5580	13.5	13.5	
	5600	13.5	13.5	
	5620	13.5	13.5	
	5640	13.5	13.5	
	5660	13.5	13.5	
	5680	13.5	13.5	
	5700	13	13	
	5720	14	14	
	5745	13	13	
	5765	13	13	
	5785	13	13	
	5805	13	13	
	5825	13	13	

Test Mode	Frequency (MHz)	RF Power setting in Test Software		Test Software Version
		ANT-0	ANT-1	
Mode 3	5180	11	11	QRCT Toolkit v4.0 Version 4.0.00175.0
	5200	11	11	
	5220	11	11	
	5240	11	11	
	5260	11	11	
	5280	11.5	11.5	
	5300	11.5	11.5	
	5320	11.5	11.5	
	5500	13.5	13.5	
	5520	14	14	
	5540	14	14	
	5560	14	14	
	5580	14	14	
	5600	14	14	
	5620	14	14	
	5640	14	14	
	5660	14	14	
	5680	14	14	
	5700	13.5	13.5	
	5720	14	14	
	5745	13	13	
	5765	13	13	
	5785	13	13	
	5805	13	13	
	5825	13.5	13.5	
Mode 4	5190	9	9	
	5230	9	9	
	5270	9	9	
	5310	9.5	9.5	
	5510	10.5	10.5	
	5550	10.5	10.5	
	5590	10.5	10.5	
	5630	10.5	10.5	
	5670	10.5	10.5	
	5710	11	11	
	5755	11.5	11.5	
	5795	11.5	11.5	

Test Mode	Frequency (MHz)	RF Power setting in Test Software		Test Software Version
		ANT-0	ANT-1	
Mode 5	5180	11	11	QRCT Toolkit v4.0 Version 4.0.00175.0
	5200	11	11	
	5220	11	11	
	5240	11	11	
	5260	11	11	
	5280	11.5	11.5	
	5300	11.5	11.5	
	5320	11.5	11.5	
	5500	13.5	13.5	
	5520	14	14	
	5540	14	14	
	5560	14	14	
	5580	14	14	
	5600	14	14	
	5620	14	14	
	5640	14	14	
	5660	14	14	
	5680	14	14	
	5700	13.5	13.5	
	5720	14	14	
	5745	13	13	
	5765	13	13	
	5785	13	13	
	5805	13	13	
	5825	13.5	13.5	
Mode 6	5190	9	9	
	5230	9	9	
	5270	9	9	
	5310	9.5	9.5	
	5510	10.5	10.5	
	5550	10.5	10.5	
	5590	10.5	10.5	
	5630	10.5	10.5	
	5670	10.5	10.5	
	5710	11	11	
	5755	11.5	11.5	
	5795	11.5	11.5	
Mode 7	5210	9.5	9.5	
	5290	9.5	9.5	
	5530	11.5	11.5	
	5610	11.5	11.5	
	5690	11.5	11.5	
	5775	12	12	

Maximum Conducted Output Power and Transmit power control Measurement

Test Mode		Mode 2: IEEE 802.11a Continuous TX mode						
Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-0+1		Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
6 M	5180	11.35	0.014	10.99	0.013	14.18	0.026	≤ 24.00
	5200	11.23	0.013	11.03	0.013	14.14	0.026	≤ 24.00
	5220	11.18	0.013	10.96	0.012	14.08	0.026	≤ 24.00
	5240	11.20	0.013	10.81	0.012	14.02	0.025	≤ 24.00
	5260	11.35	0.014	11.11	0.013	14.24	0.027	≤ 24.00
	5280	11.14	0.013	10.81	0.012	13.99	0.025	≤ 24.00
	5300	11.11	0.013	10.78	0.012	13.96	0.025	≤ 24.00
	5320	11.47	0.014	11.41	0.014	14.45	0.028	≤ 24.00
	5500	13.09	0.020	12.73	0.019	15.92	0.039	≤ 22.98
	5520	13.15	0.021	13.06	0.020	16.12	0.041	≤ 22.98
	5540	13.16	0.021	13.02	0.020	16.10	0.041	≤ 22.98
	5560	13.18	0.021	13.08	0.020	16.14	0.041	≤ 22.98
	5580	13.15	0.021	13.05	0.020	16.11	0.041	≤ 22.98
	5600	13.13	0.021	13.03	0.020	16.09	0.041	≤ 22.98
	5620	13.14	0.021	13.04	0.020	16.10	0.041	≤ 22.98
	5640	13.09	0.020	12.99	0.020	16.05	0.040	≤ 22.98
	5660	13.08	0.020	13.00	0.020	16.05	0.040	≤ 22.98
	5680	13.10	0.020	12.98	0.020	16.05	0.040	≤ 22.98
	5700	13.27	0.021	13.09	0.020	16.19	0.042	≤ 22.98
	5720	12.38	0.017	12.33	0.017	15.37	0.034	≤ 22.98
	5720	5.36	0.003	5.24	0.003	8.31	0.007	≤ 30.00
	5745	13.45	0.022	12.72	0.019	16.11	0.041	≤ 30.00
	5765	13.33	0.022	12.51	0.018	15.95	0.039	≤ 30.00
	5785	13.36	0.022	12.56	0.018	15.99	0.040	≤ 30.00
	5805	13.34	0.022	12.53	0.018	15.96	0.039	≤ 30.00
	5825	13.06	0.020	12.59	0.018	15.84	0.038	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX mode						
Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-0+1		Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
13 M	5180	11.10	0.013	10.75	0.012	13.94	0.025	≤ 24.00
	5200	10.89	0.012	10.76	0.012	13.84	0.024	≤ 24.00
	5220	10.86	0.012	10.71	0.012	13.80	0.024	≤ 24.00
	5240	10.91	0.012	10.60	0.011	13.77	0.024	≤ 24.00
	5260	11.03	0.013	10.80	0.012	13.93	0.025	≤ 24.00
	5280	11.32	0.014	10.94	0.012	14.14	0.026	≤ 24.00
	5300	11.30	0.013	10.91	0.012	14.12	0.026	≤ 24.00
	5320	11.18	0.013	10.98	0.013	14.09	0.026	≤ 24.00
	5500	13.08	0.020	12.87	0.019	15.99	0.040	≤ 23.29
	5520	13.17	0.021	13.16	0.021	16.18	0.041	≤ 23.29
	5540	13.17	0.021	13.19	0.021	16.19	0.042	≤ 23.29
	5560	13.29	0.021	13.20	0.021	16.26	0.042	≤ 23.29
	5580	13.13	0.021	13.18	0.021	16.17	0.041	≤ 23.29
	5600	13.06	0.020	13.11	0.020	16.10	0.041	≤ 23.29
	5620	13.11	0.020	13.13	0.021	16.13	0.041	≤ 23.29
	5640	13.19	0.021	13.08	0.020	16.15	0.041	≤ 23.29
	5660	13.21	0.021	13.15	0.021	16.19	0.042	≤ 23.29
	5680	13.18	0.021	13.18	0.021	16.19	0.042	≤ 23.29
	5700	13.40	0.022	13.29	0.021	16.36	0.043	≤ 23.29
	5720	11.99	0.016	11.96	0.016	14.98	0.032	≤ 23.29
	5720	6.07	0.004	5.86	0.004	8.98	0.008	≤ 30.00
	5745	13.10	0.020	12.53	0.018	15.83	0.038	≤ 30.00
	5765	13.07	0.020	12.27	0.017	15.70	0.037	≤ 30.00
	5785	13.09	0.020	12.33	0.017	15.74	0.037	≤ 30.00
	5805	13.01	0.020	12.24	0.017	15.65	0.037	≤ 30.00
	5825	13.28	0.021	13.03	0.020	16.17	0.041	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX mode						
Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-0+1		Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
27 M	5190	9.71	0.009	9.18	0.008	12.46	0.018	≤ 24.00
	5230	9.53	0.009	9.06	0.008	12.31	0.017	≤ 24.00
	5270	9.54	0.009	9.07	0.008	12.32	0.017	≤ 24.00
	5310	9.82	0.010	9.28	0.008	12.57	0.018	≤ 24.00
	5510	10.73	0.012	10.44	0.011	13.60	0.023	≤ 24.00
	5550	10.70	0.012	10.37	0.011	13.55	0.023	≤ 24.00
	5590	10.76	0.012	10.36	0.011	13.57	0.023	≤ 24.00
	5630	10.68	0.012	10.29	0.011	13.50	0.022	≤ 24.00
	5670	10.94	0.012	10.90	0.012	13.93	0.025	≤ 24.00
	5710	10.47	0.011	10.40	0.011	13.45	0.022	≤ 24.00
	5710	-0.55	0.001	-0.76	0.001	2.36	0.002	≤ 30.00
	5755	12.19	0.017	11.44	0.014	14.84	0.030	≤ 30.00
	5795	12.02	0.016	11.33	0.014	14.70	0.030	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode						
Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-0+1		Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
13 M	5180	11.13	0.013	10.77	0.012	13.96	0.025	≤ 24.00
	5200	10.99	0.013	10.82	0.012	13.92	0.025	≤ 24.00
	5220	10.94	0.012	10.78	0.012	13.87	0.024	≤ 24.00
	5240	10.92	0.012	10.71	0.012	13.83	0.024	≤ 24.00
	5260	11.04	0.013	10.94	0.012	14.00	0.025	≤ 24.00
	5280	11.41	0.014	11.08	0.013	14.26	0.027	≤ 24.00
	5300	11.38	0.014	11.04	0.013	14.22	0.026	≤ 24.00
	5320	11.22	0.013	11.11	0.013	14.18	0.026	≤ 24.00
	5500	13.18	0.021	12.92	0.020	16.06	0.040	≤ 23.20
	5520	13.27	0.021	13.25	0.021	16.27	0.042	≤ 23.20
	5540	13.26	0.021	13.22	0.021	16.25	0.042	≤ 23.20
	5560	13.31	0.021	13.28	0.021	16.31	0.043	≤ 23.20
	5580	13.22	0.021	13.20	0.021	16.22	0.042	≤ 23.20
	5600	13.20	0.021	13.19	0.021	16.21	0.042	≤ 23.20
	5620	13.18	0.021	13.16	0.021	16.18	0.041	≤ 23.20
	5640	13.21	0.021	13.18	0.021	16.21	0.042	≤ 23.20
	5660	13.23	0.021	13.21	0.021	16.23	0.042	≤ 23.20
	5680	13.22	0.021	13.20	0.021	16.22	0.042	≤ 23.20
	5700	13.41	0.022	13.33	0.022	16.38	0.043	≤ 23.20
	5720	12.02	0.016	12.00	0.016	15.02	0.032	≤ 23.20
	5720	6.14	0.004	5.98	0.004	9.07	0.008	≤ 30.00
	5745	13.22	0.021	12.56	0.018	15.91	0.039	≤ 30.00
	5765	13.16	0.021	12.35	0.017	15.78	0.038	≤ 30.00
	5785	13.19	0.021	12.37	0.017	15.81	0.038	≤ 30.00
	5805	13.12	0.021	12.32	0.017	15.75	0.038	≤ 30.00
	5825	13.38	0.022	13.11	0.020	16.26	0.042	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 6: IEEE 802.11ac 40 MHz Continuous TX mode						
Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-0+1		Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
27 M	5190	9.79	0.010	9.23	0.008	12.53	0.018	≤ 24.00
	5230	9.54	0.009	9.11	0.008	12.34	0.017	≤ 24.00
	5270	9.55	0.009	9.18	0.008	12.38	0.017	≤ 24.00
	5310	9.88	0.010	9.41	0.009	12.66	0.018	≤ 24.00
	5510	10.79	0.012	10.52	0.011	13.67	0.023	≤ 24.00
	5550	10.81	0.012	10.48	0.011	13.66	0.023	≤ 24.00
	5590	10.77	0.012	10.45	0.011	13.62	0.023	≤ 24.00
	5630	10.74	0.012	10.41	0.011	13.59	0.023	≤ 24.00
	5670	10.97	0.013	10.92	0.012	13.96	0.025	≤ 24.00
	5710	10.50	0.011	10.45	0.011	13.48	0.022	≤ 24.00
	5710	-0.51	0.001	-0.70	0.001	2.41	0.002	≤ 30.00
	5755	12.23	0.017	11.48	0.014	14.88	0.031	≤ 30.00
	5795	12.09	0.016	11.36	0.014	14.75	0.030	≤ 30.00

Test Mode		Mode 7: IEEE 802.11ac 80 MHz Continuous TX mode						
Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-0+1		Limit (dBm)
		Max. Output Power						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
58.6 M	5210	9.63	0.009	9.32	0.009	12.49	0.018	≤ 24.00
	5290	9.54	0.009	8.99	0.008	12.28	0.017	≤ 24.00
	5530	10.88	0.012	10.69	0.012	13.80	0.024	≤ 24.00
	5610	10.97	0.013	10.85	0.012	13.92	0.025	≤ 24.00
	5690	10.52	0.011	10.48	0.011	13.51	0.022	≤ 24.00
	5690	-3.89	0.000	-3.96	0.000	-0.92	0.001	≤ 30.00
	5775	12.28	0.017	11.29	0.013	14.82	0.030	≤ 30.00

Note: The relevant measured result has the offset with cable loss already.

26 dB RF Bandwidth

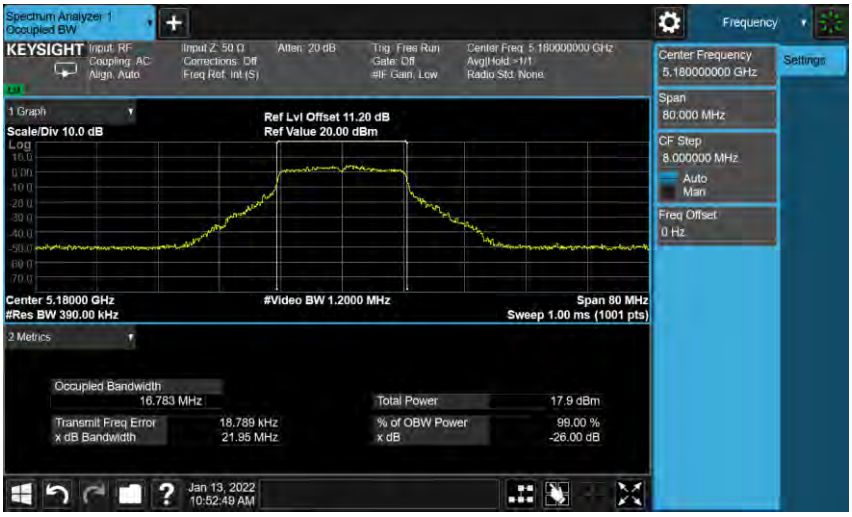
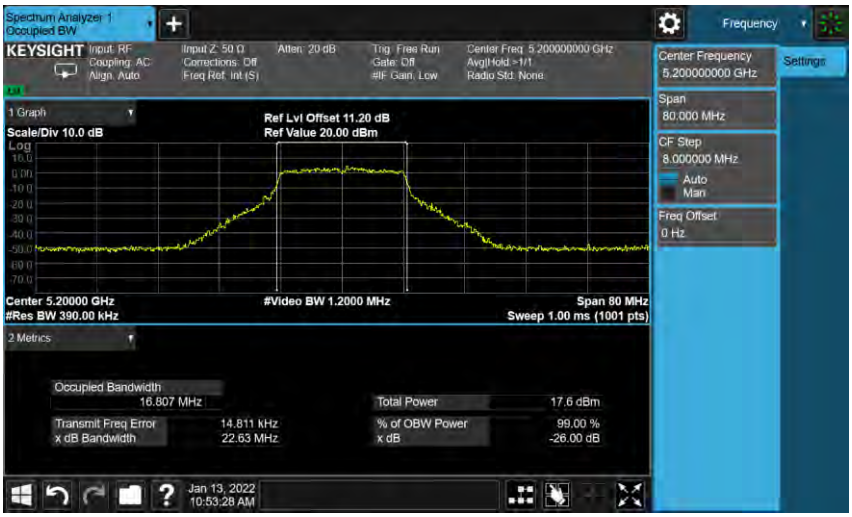
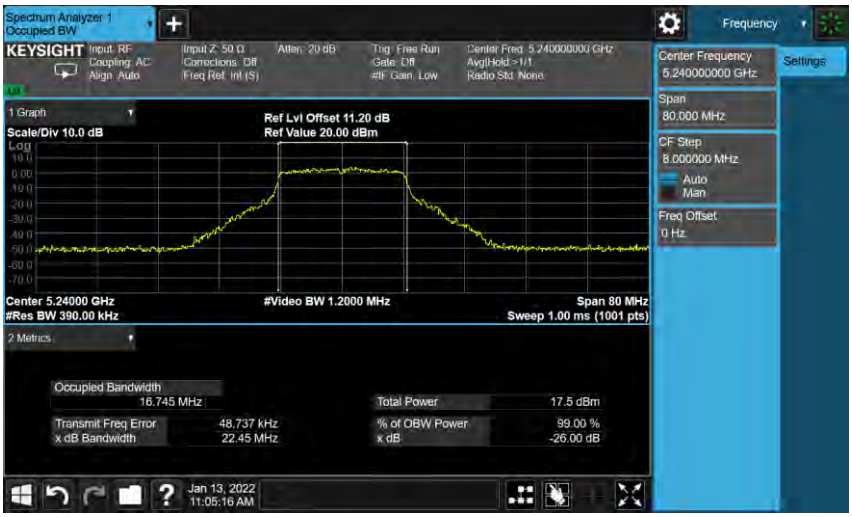
Test Mode	Frequency (MHz)	ANT-0	ANT-1
		Measurement Results (MHz)	Measurement Results (MHz)
Mode 2	5180	21.950	21.560
	5200	22.630	22.230
	5240	22.450	21.700
	5260	22.430	21.410
	5280	23.150	21.350
	5320	21.350	21.870
	5500	21.990	21.530
	5560	22.920	21.290
	5700	22.360	21.240
	5720	16.190	15.770
Mode 3	5260	22.330	22.530
	5280	23.100	22.670
	5320	23.490	22.510
	5500	23.290	23.980
	5560	23.510	22.850
	5700	22.570	24.050
	5720	16.930	17.180
Mode 4	5270	41.460	41.260
	5310	41.170	40.900
	5510	41.690	40.790
	5550	41.630	41.360
	5670	41.710	41.630
	5710	35.330	35.950
Mode 5	5180	23.680	23.510
	5200	23.320	22.500
	5240	23.520	22.580
	5260	23.730	23.040
	5280	23.360	22.810
	5320	23.400	22.980
	5500	23.610	23.680
	5560	23.320	23.360
	5700	23.120	23.620
	5720	17.650	16.590

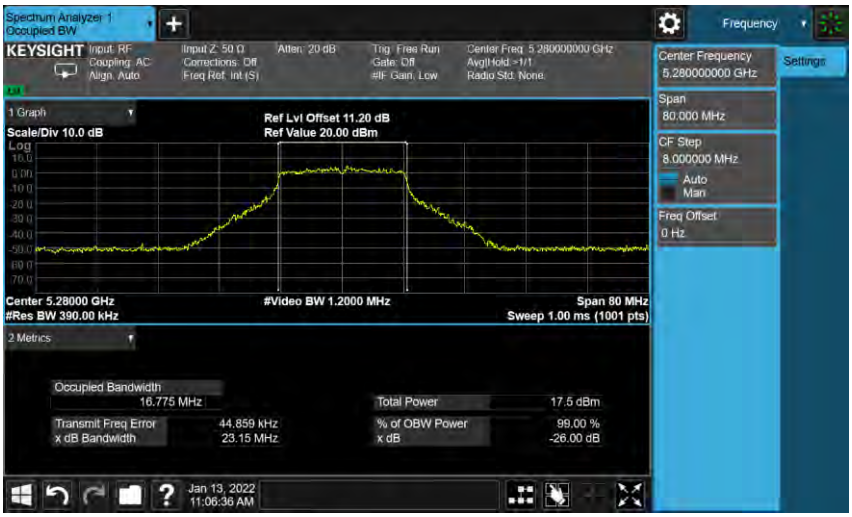
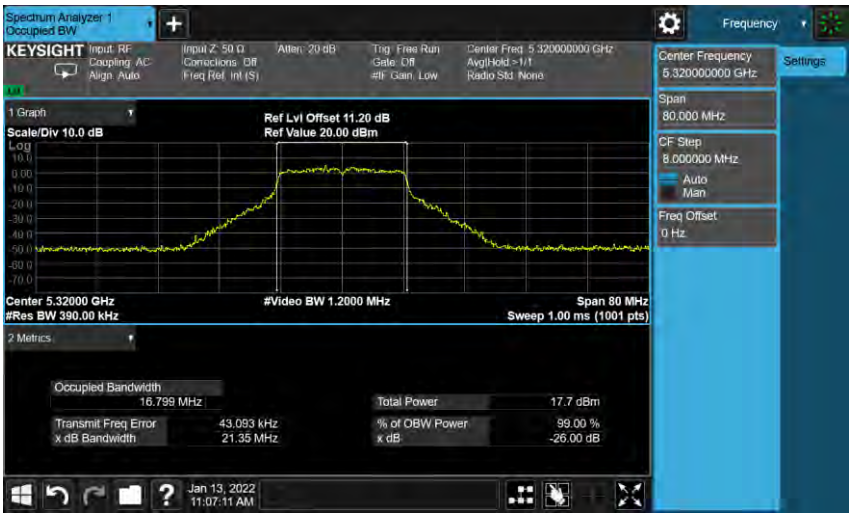
Note: The 99 % occupied bandwidth not crossed 5250 MHz.

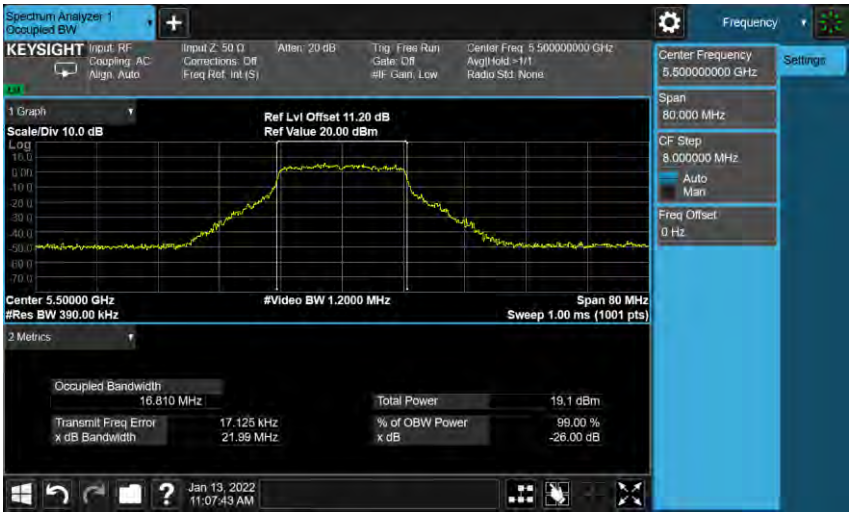
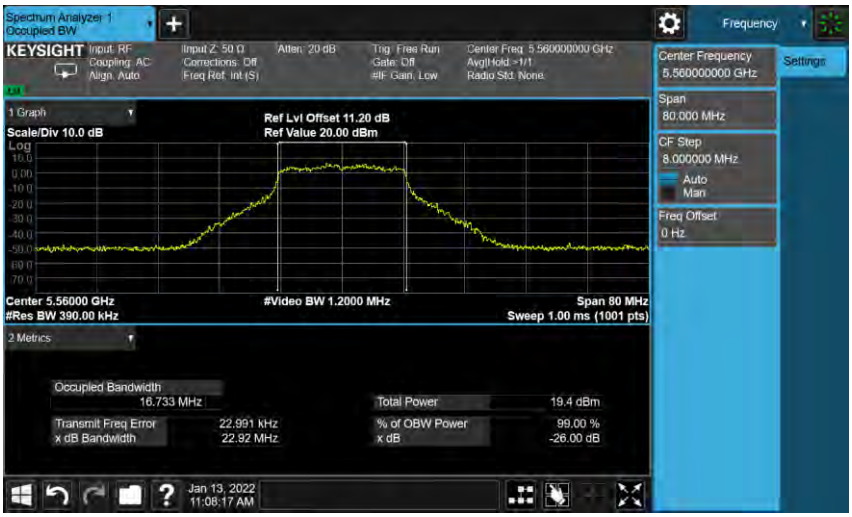
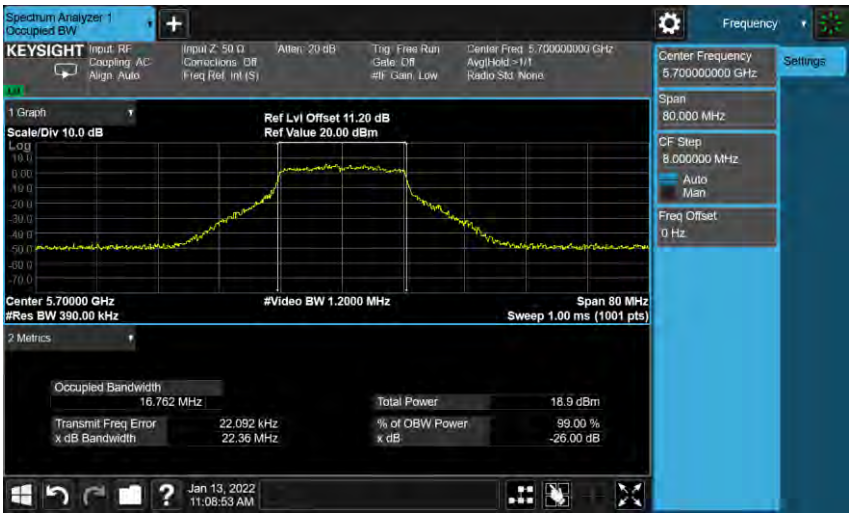
Test Mode	Frequency (MHz)	ANT-0	ANT-1
		Measurement Results (MHz)	Measurement Results (MHz)
Mode 6	5190	41.540	41.410
	5230	41.360	41.360
	5270	41.250	41.400
	5310	41.250	41.590
	5510	41.640	41.130
	5550	40.990	41.200
	5670	41.530	41.380
	5710	35.510	35.530
Mode 7	5210	83.390	82.860
	5290	84.400	82.230
	5530	84.120	82.610
	5610	83.490	82.590
	5690	76.570	76.280

Note: The 99 % occupied bandwidth not crossed 5250 MHz.

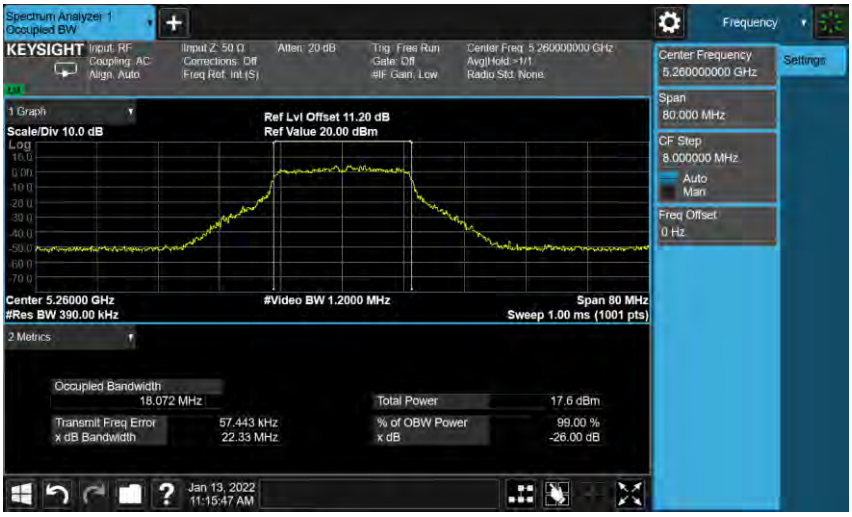
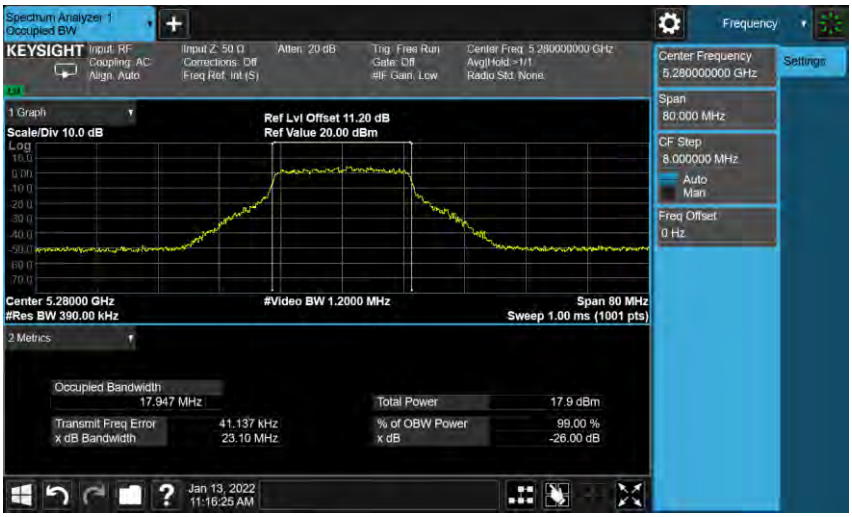
■ **Test Graphs**

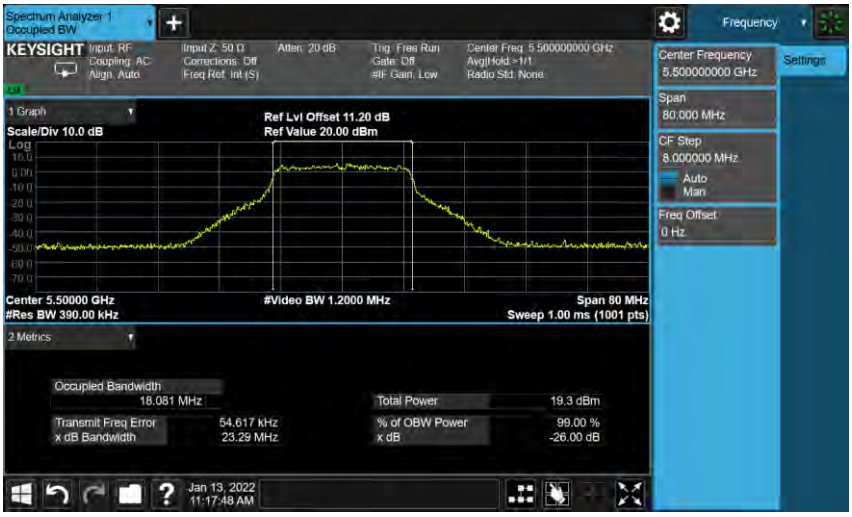
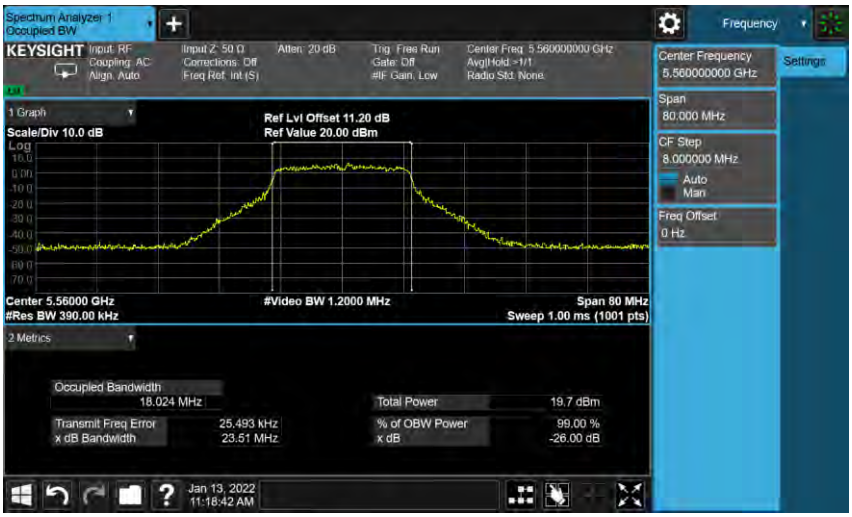
Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5720 MHz	

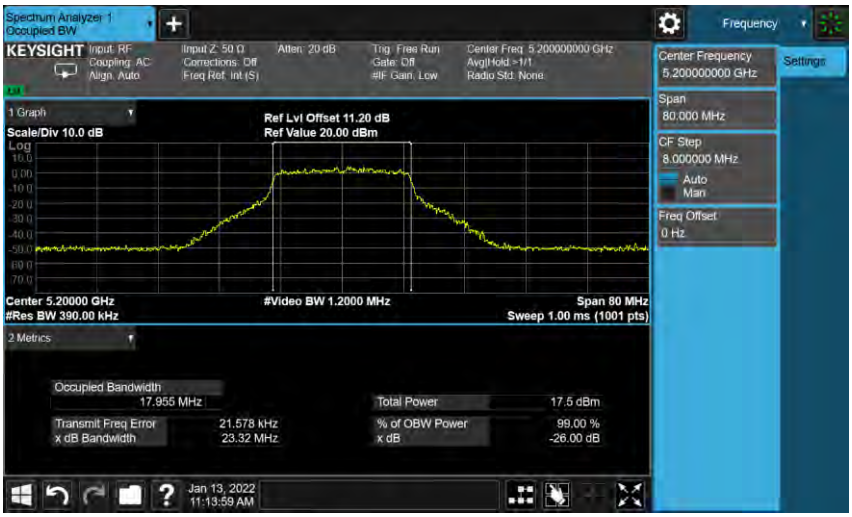
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

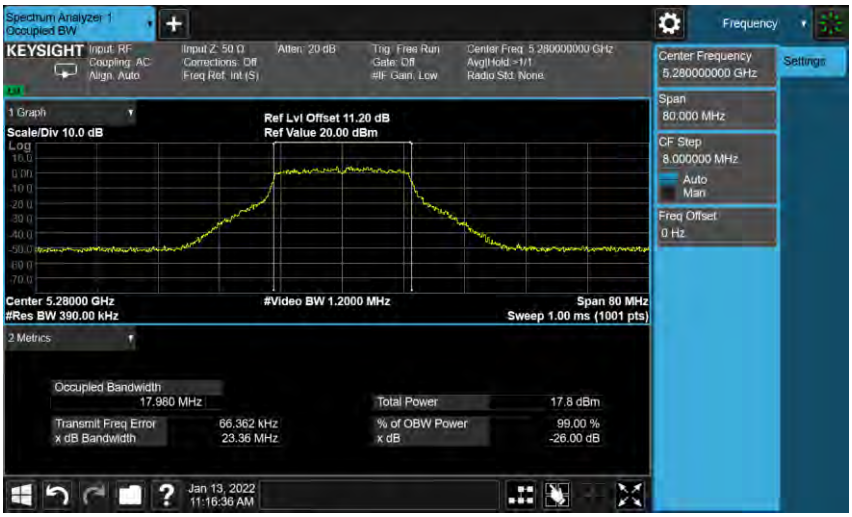
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

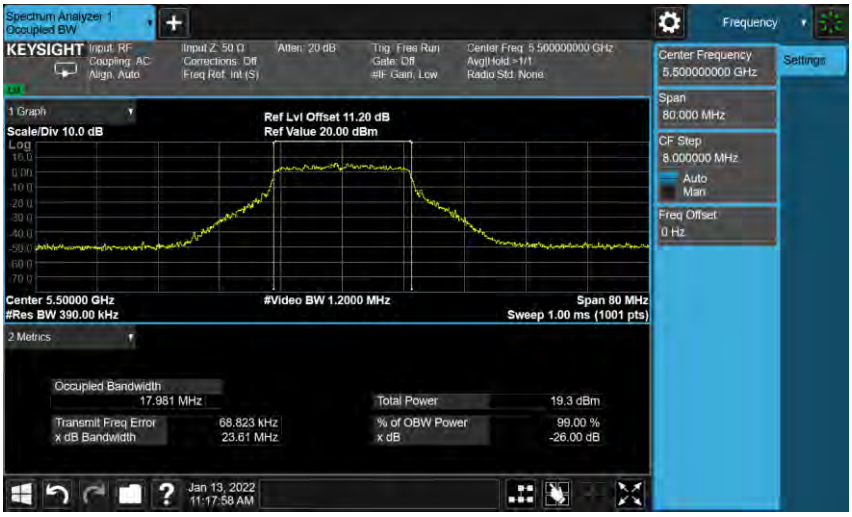
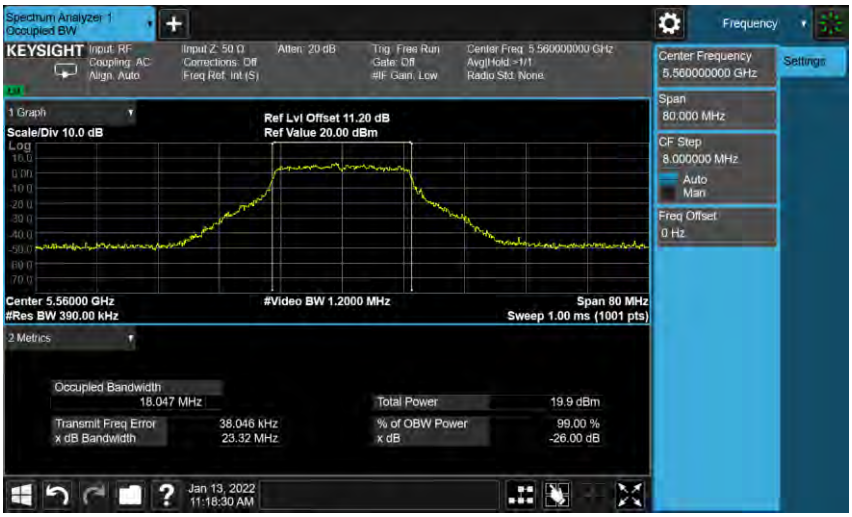
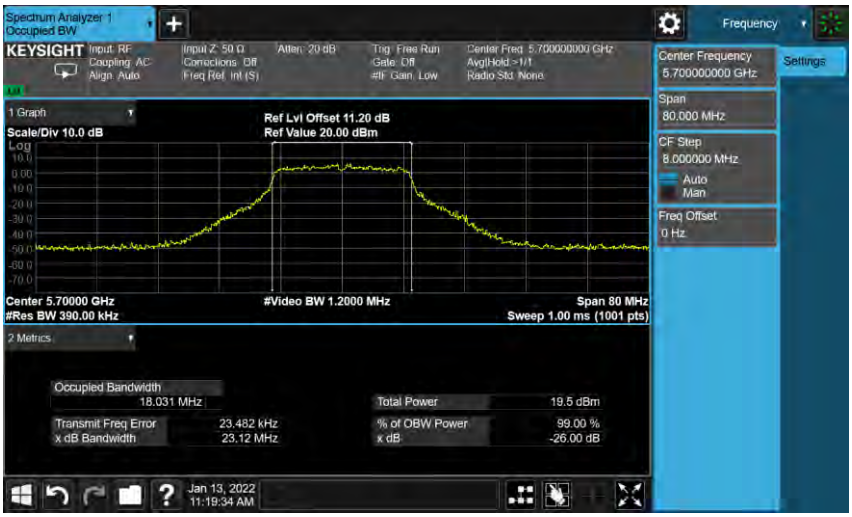
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
5720 MHz	

Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-0	
5270 MHz	
5310 MHz	
5510 MHz	

Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-0	
5550 MHz	
5670 MHz	
5710 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5260 MHz	
5280 MHz	
5320 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5720 MHz	

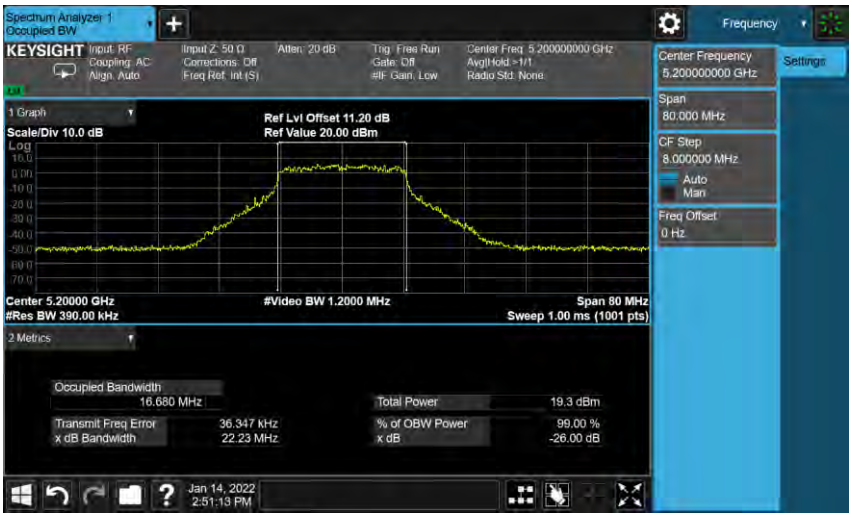
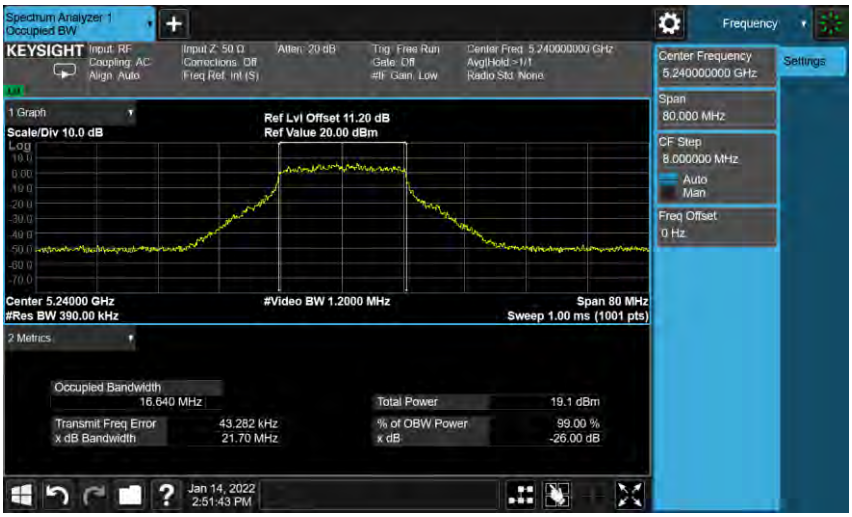
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
5190 MHz	
5230 MHz	
5270 MHz	

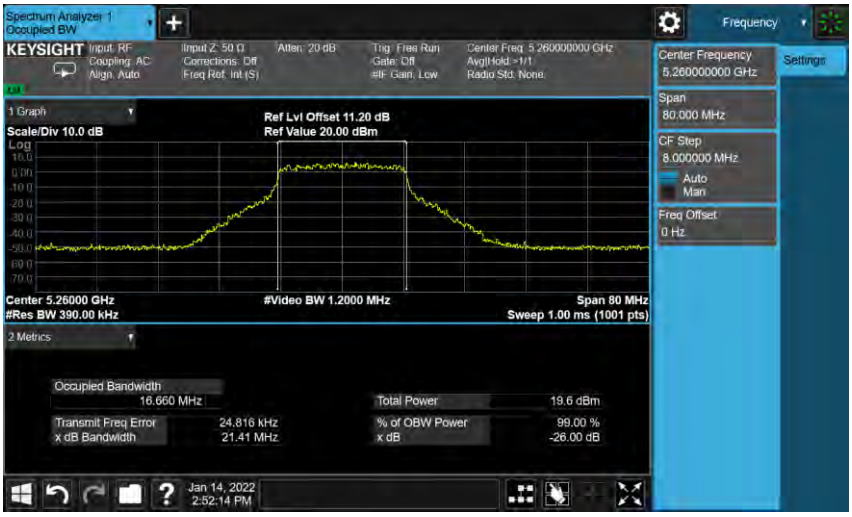
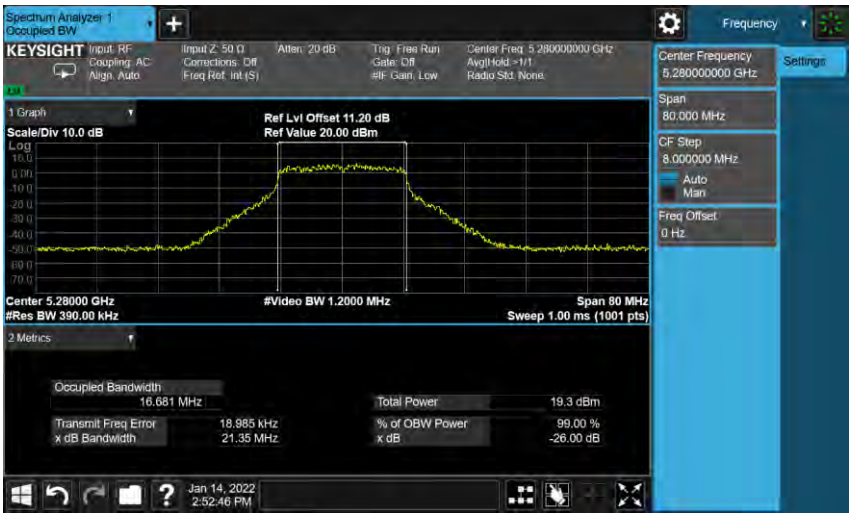
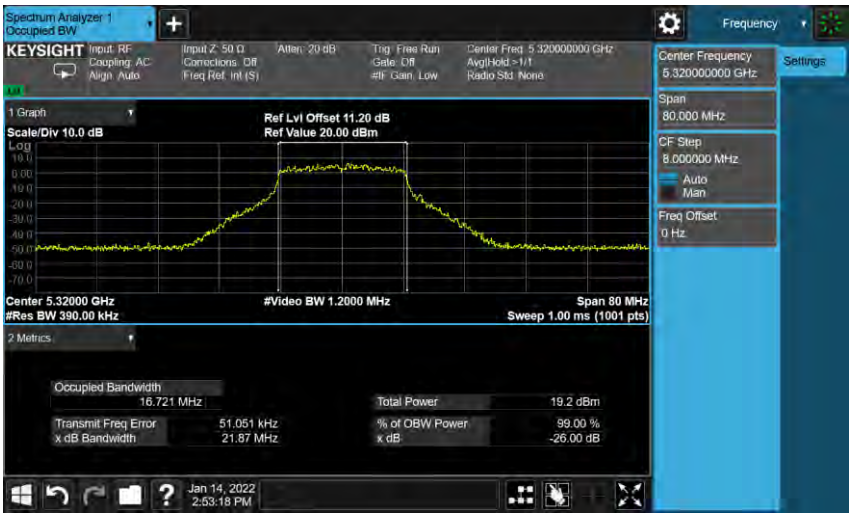
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
5310 MHz	
5510 MHz	
5550 MHz	

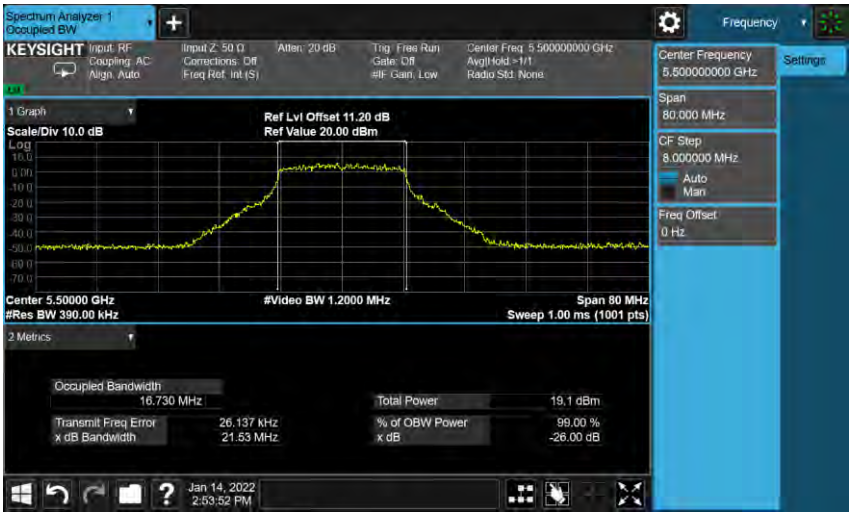
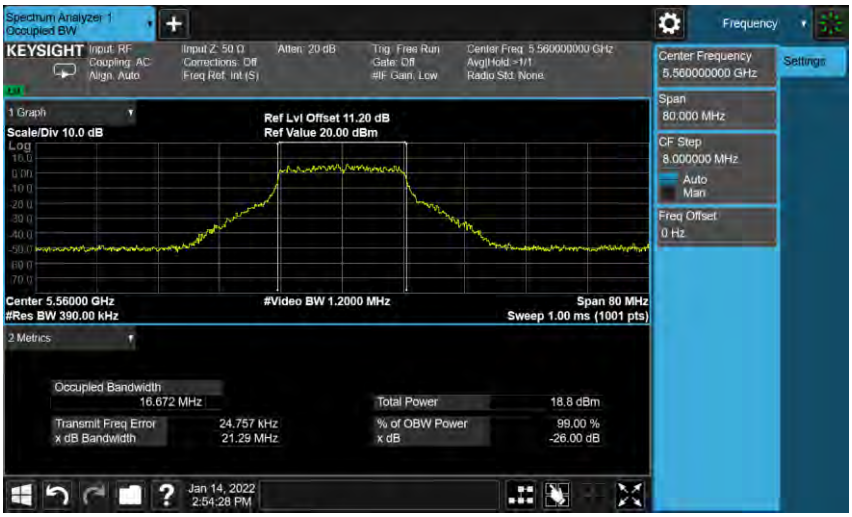
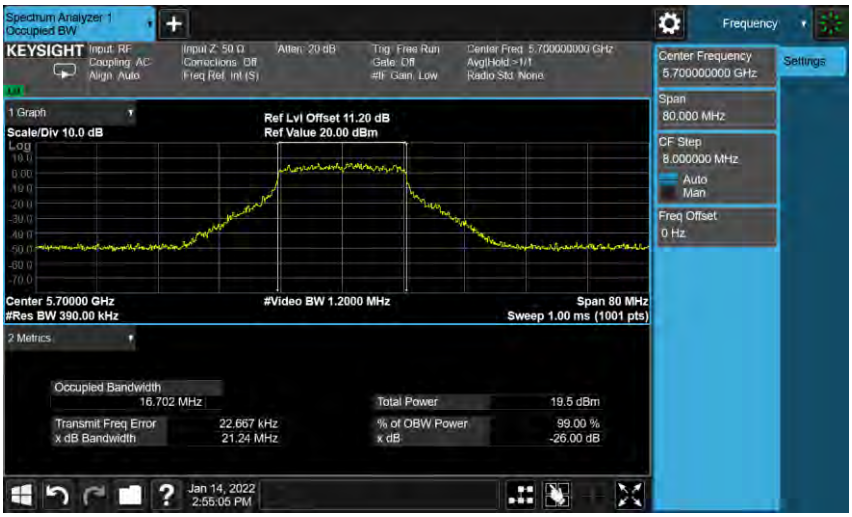
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
5670 MHz	
5710 MHz	

Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0	
5210 MHz	
5290 MHz	
5530 MHz	

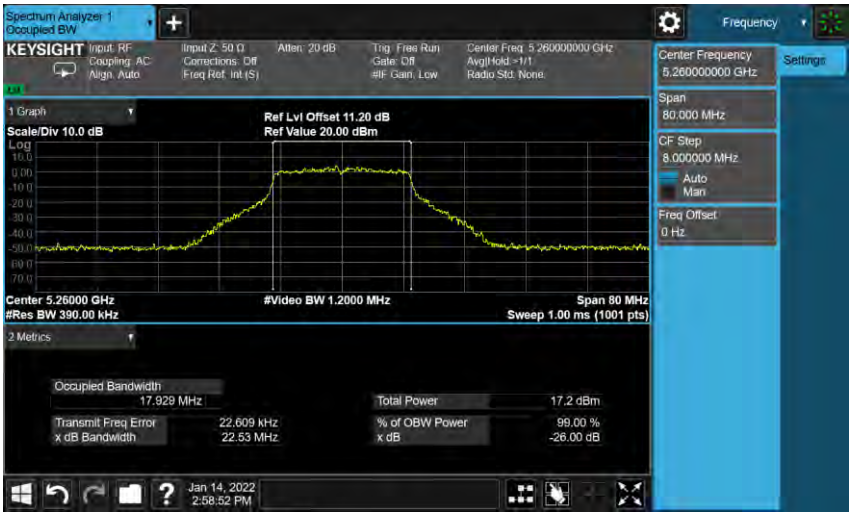
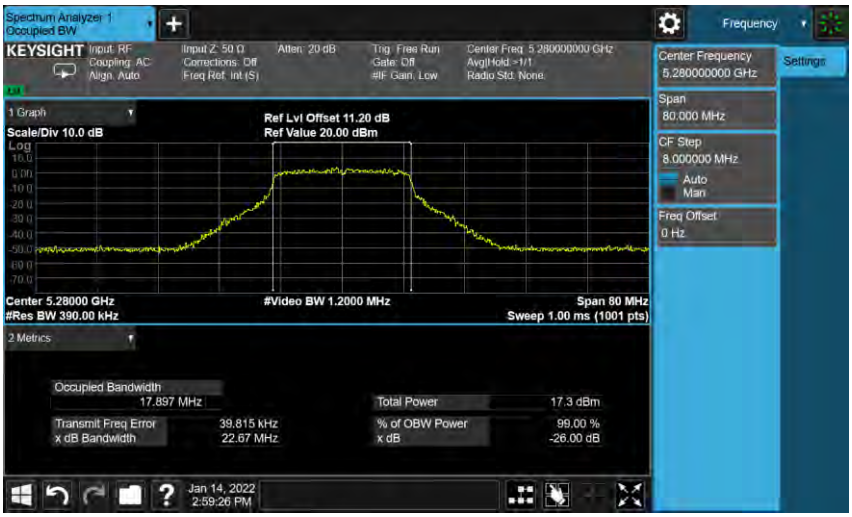
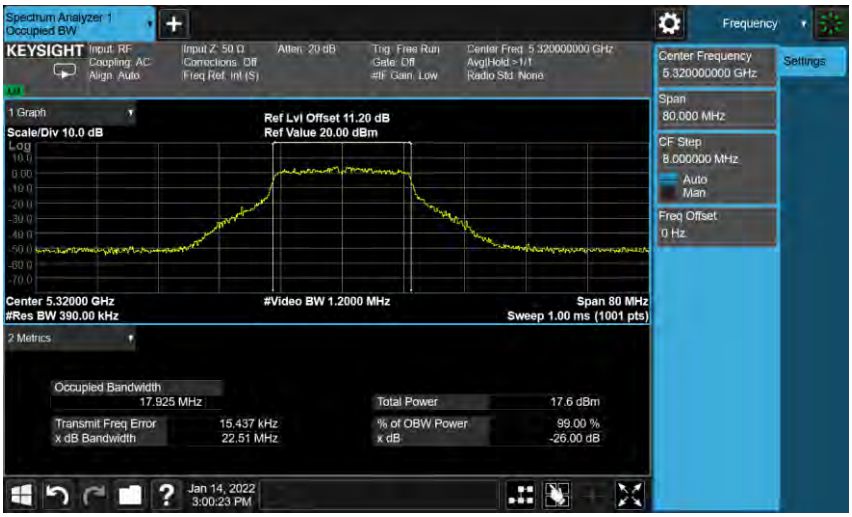
Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0	
5610 MHz	
5690 MHz	

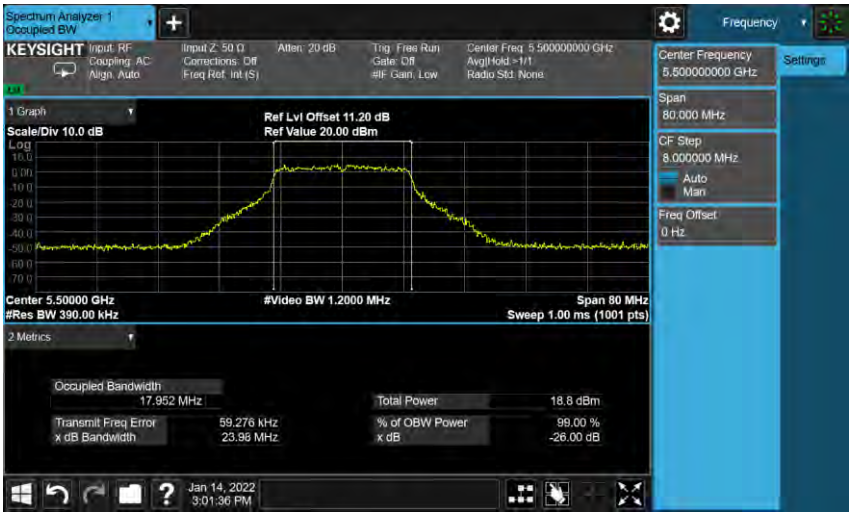
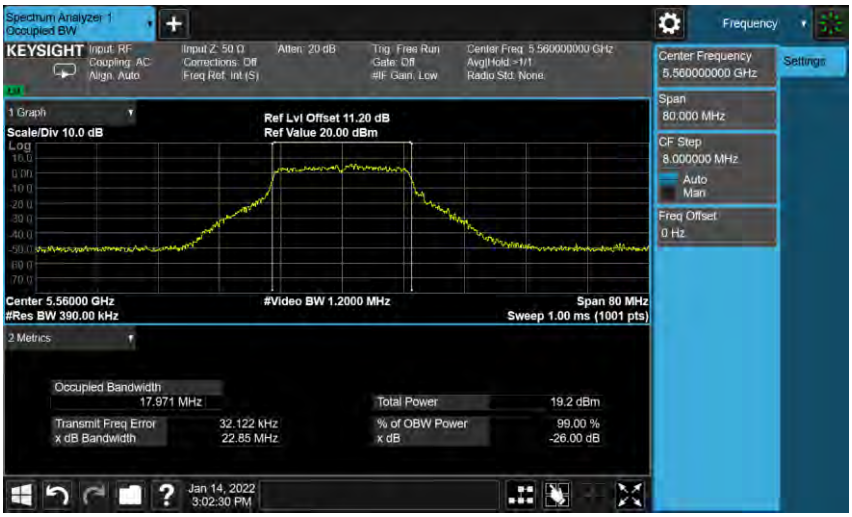
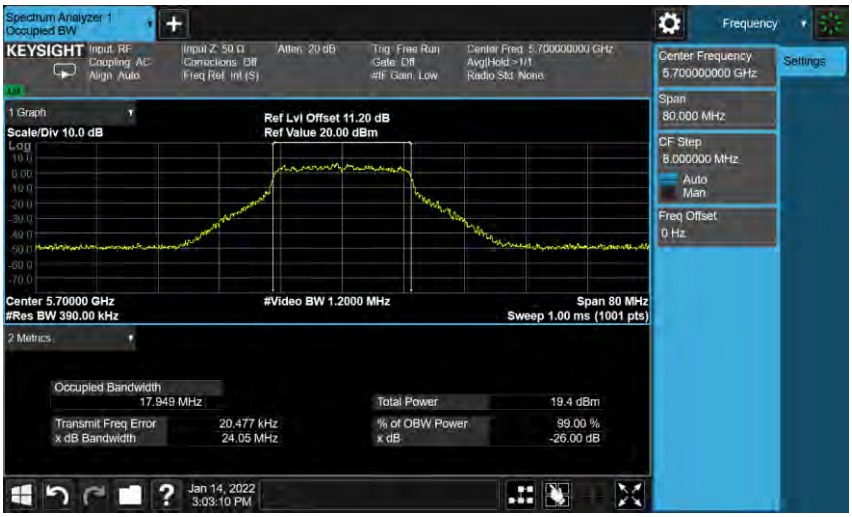
Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5260 MHz	
5280 MHz	
5320 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5720 MHz	

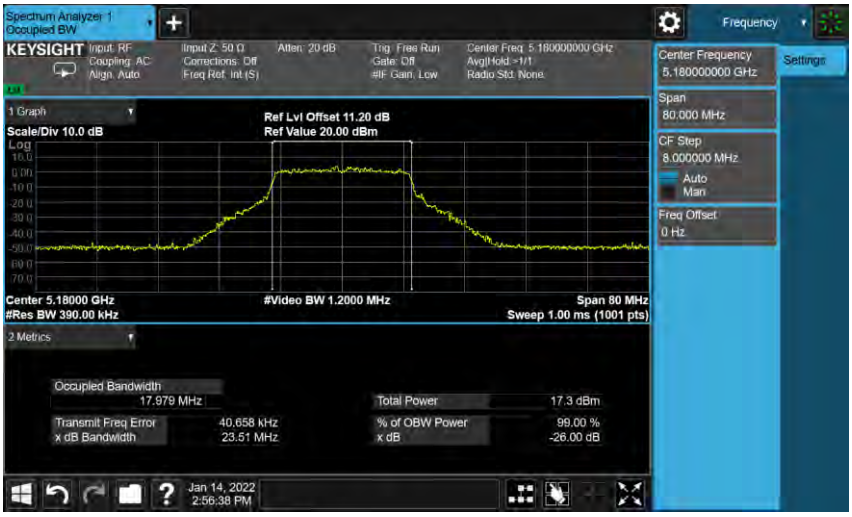
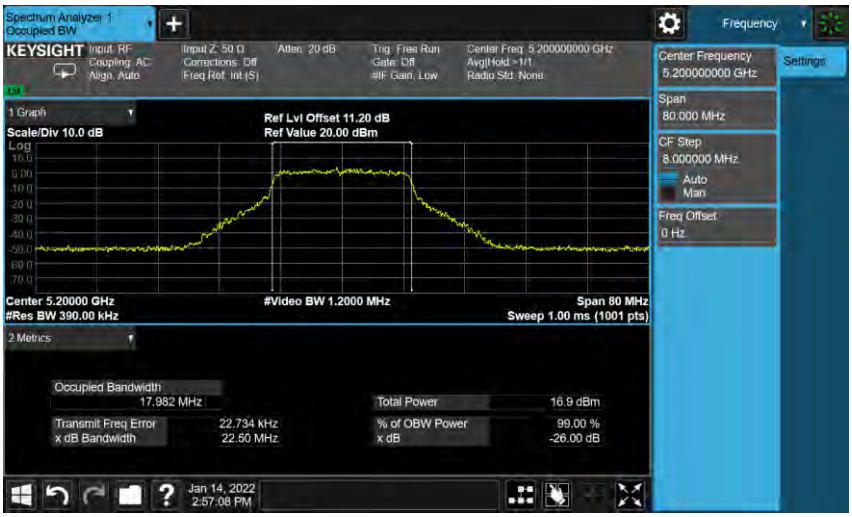
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1	
5260 MHz	
5280 MHz	
5320 MHz	

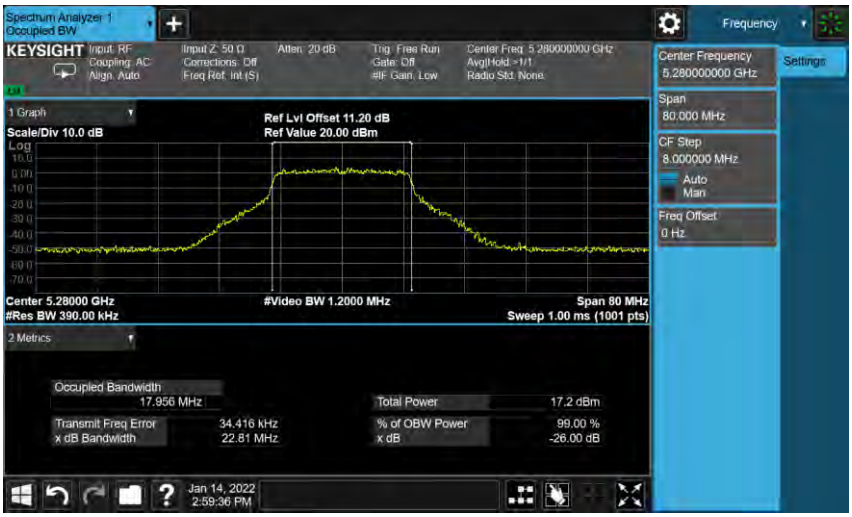
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1	
5500 MHz	
5560 MHz	
5700 MHz	

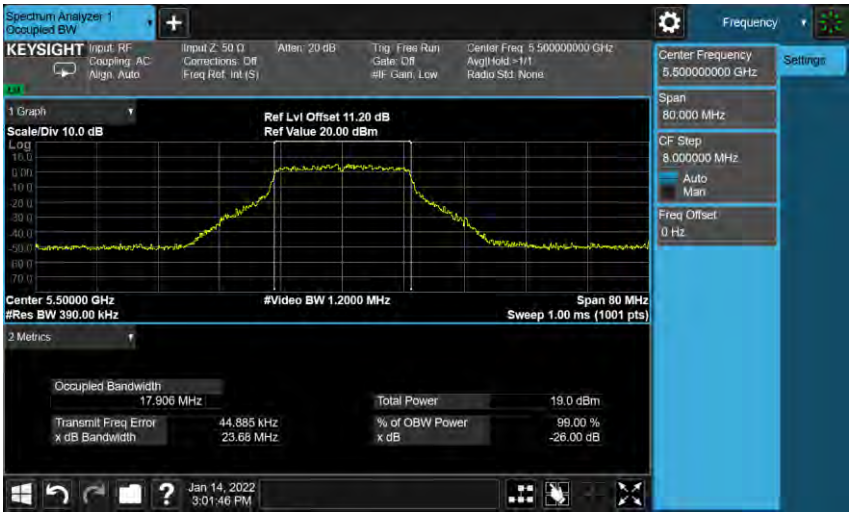
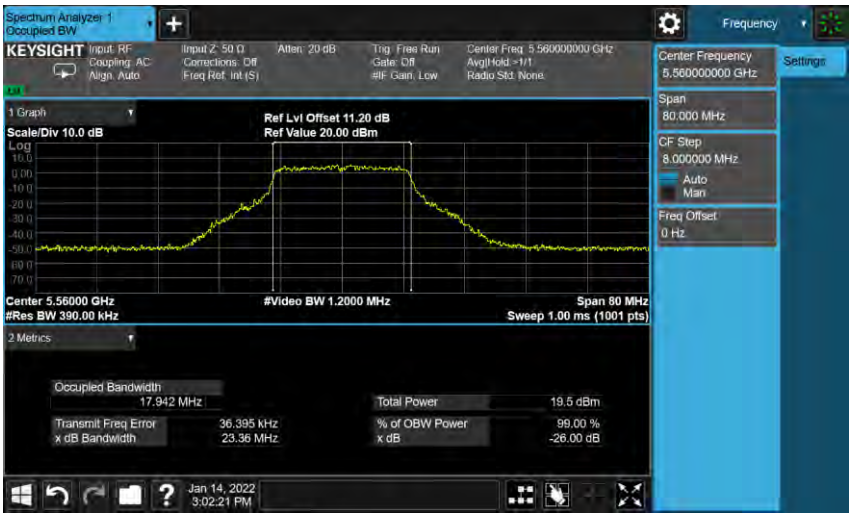
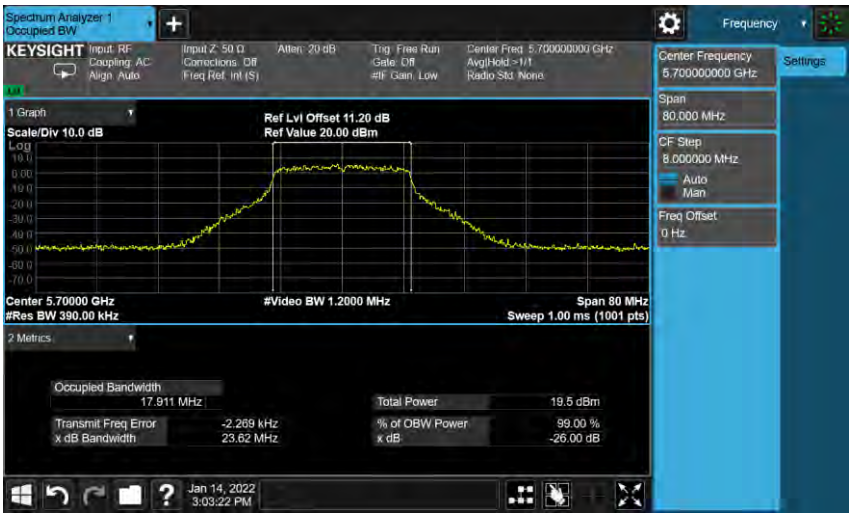
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1	
5720 MHz	

Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-1	
5270 MHz	
5310 MHz	
5510 MHz	

Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-1	
5550 MHz	
5670 MHz	
5710 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5260 MHz	
5280 MHz	
5320 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5500 MHz	
5560 MHz	
5700 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5720 MHz	

Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
5190 MHz	
5230 MHz	
5270 MHz	

Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
5310 MHz	
5510 MHz	
5550 MHz	

Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
5670 MHz	
5710 MHz	

Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1	
5210 MHz	
5290 MHz	
5530 MHz	

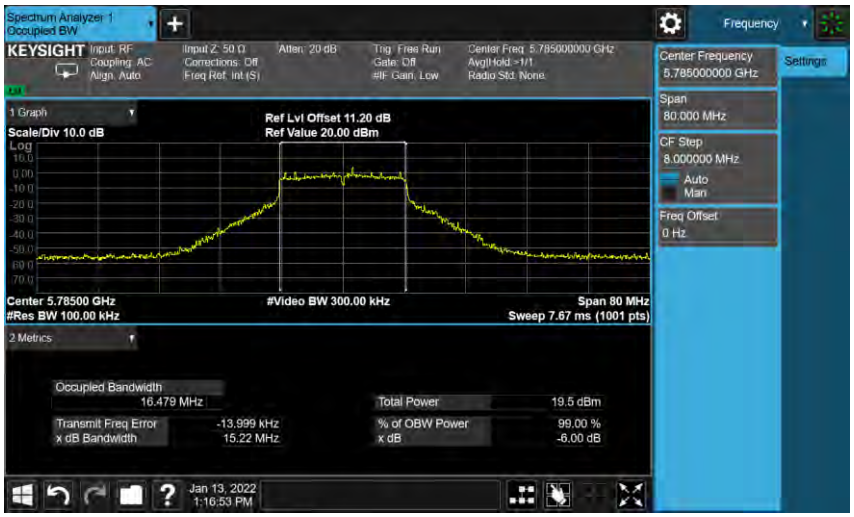
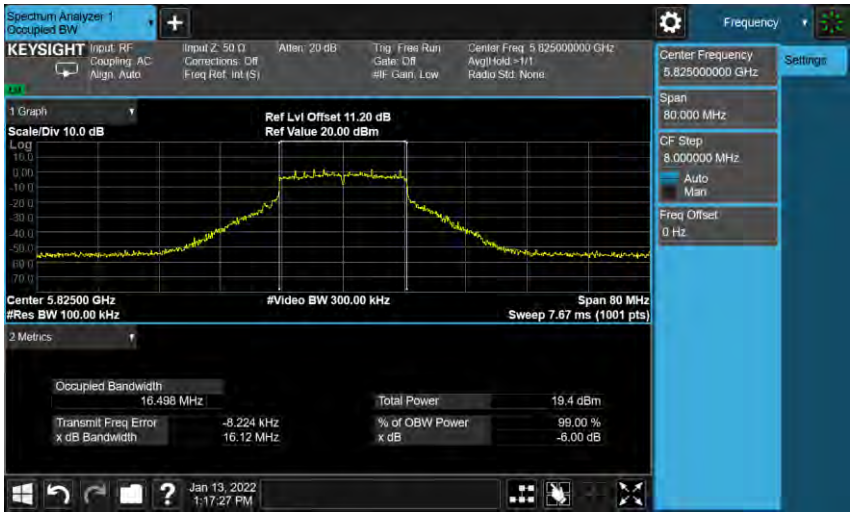
Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1	
5610 MHz	
5690 MHz	

6 dB RF Bandwidth Measurement

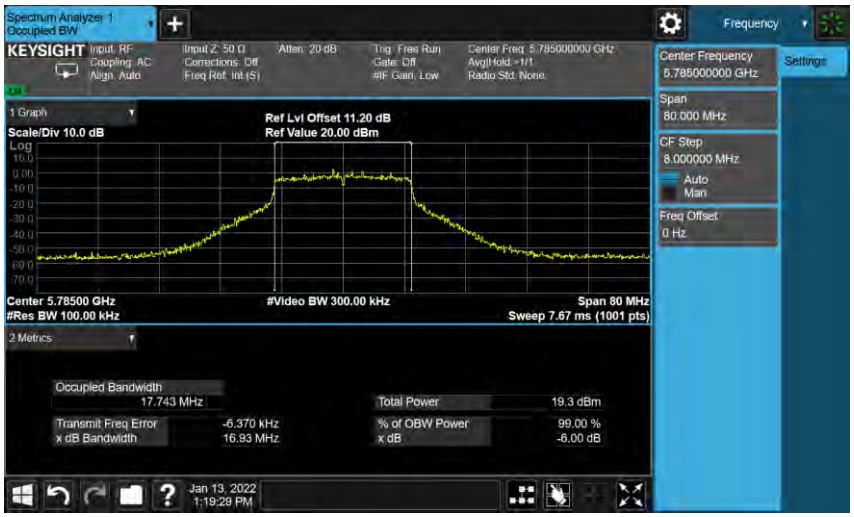
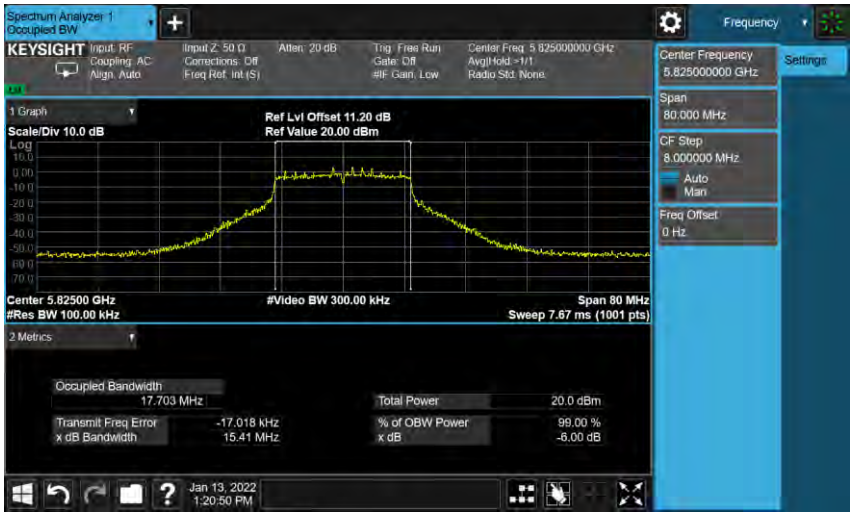
Test Mode	Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
		Measurement Results (MHz)	Measurement Results (MHz)	
Mode 2	5720	3138	3138	≥ 500
	5745	16370	15120	≥ 500
	5785	15220	15540	≥ 500
	5825	16120	16080	≥ 500
Mode 5	5720	3771	3754	≥ 500
	5745	16900	17340	≥ 500
	5785	16930	15480	≥ 500
	5825	15410	16890	≥ 500
Mode 6	5710	3164	3140	≥ 500
	5755	35320	35510	≥ 500
	5795	35400	35460	≥ 500
Mode 7	5690	3165	3184	≥ 500
	5775	74080	75160	≥ 500

■ **Test Graphs**

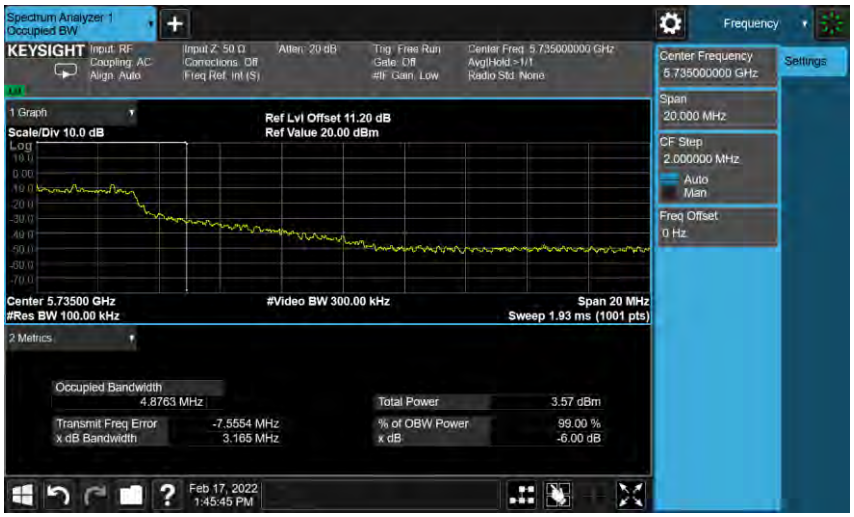
Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5720 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

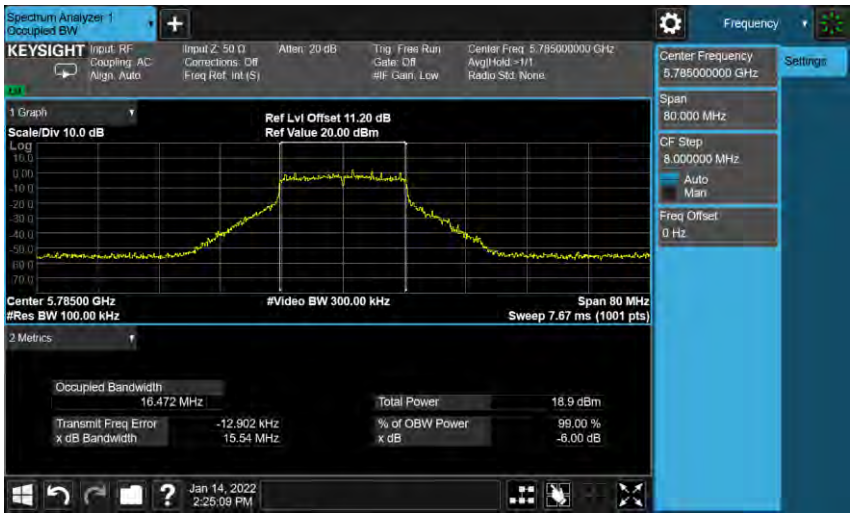
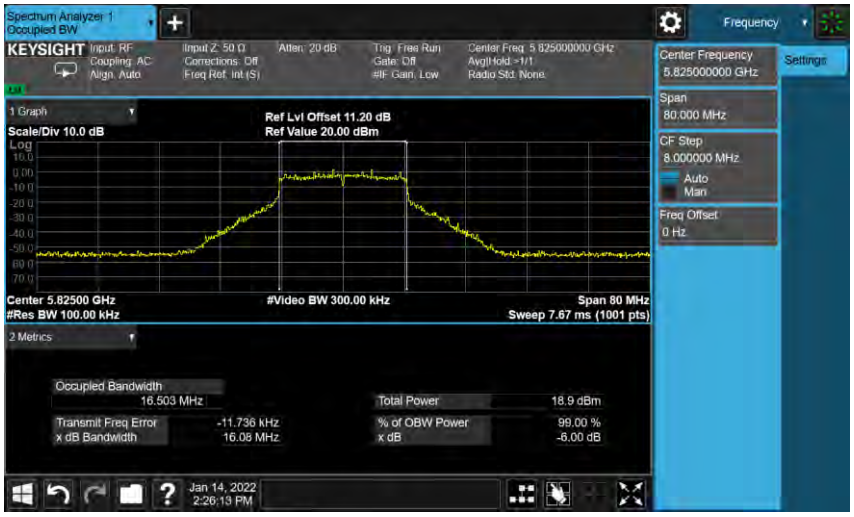
Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5720 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

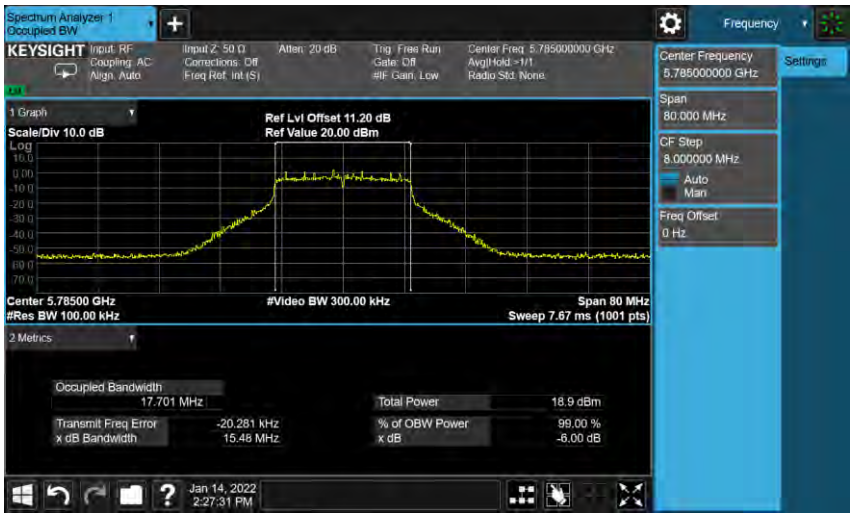
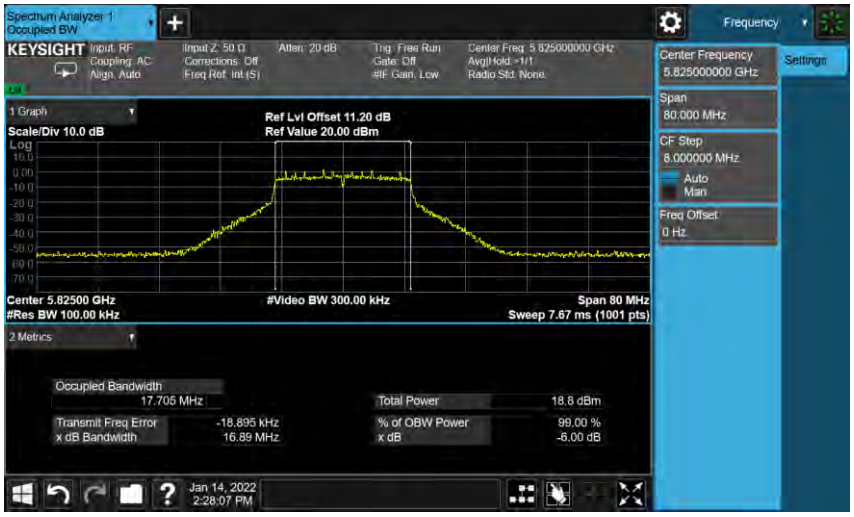
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
5710 MHz	
5755 MHz	
5795 MHz	

Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0	
5690 MHz	
5775 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5720 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5720 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
5710 MHz	
5755 MHz	
5795 MHz	

Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1	
5690 MHz	
5775 MHz