

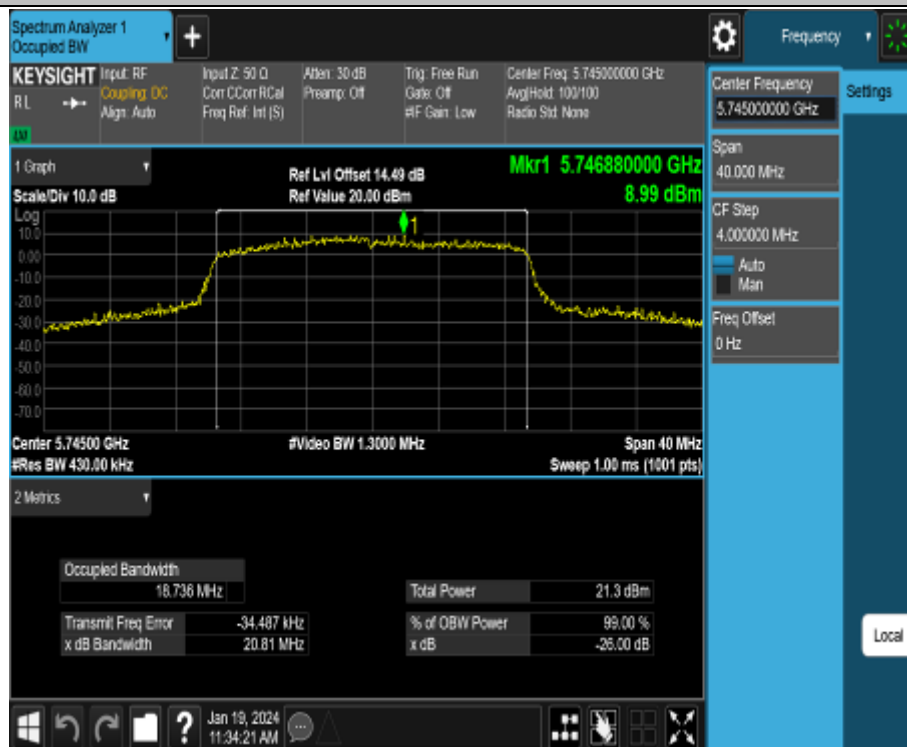
11AX20MIMO_Ant1_5700



11AX20MIMO_Ant2_5700



11AX20MIMO_Ant1_5745



11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785



11AX20MIMO_Ant2_5785



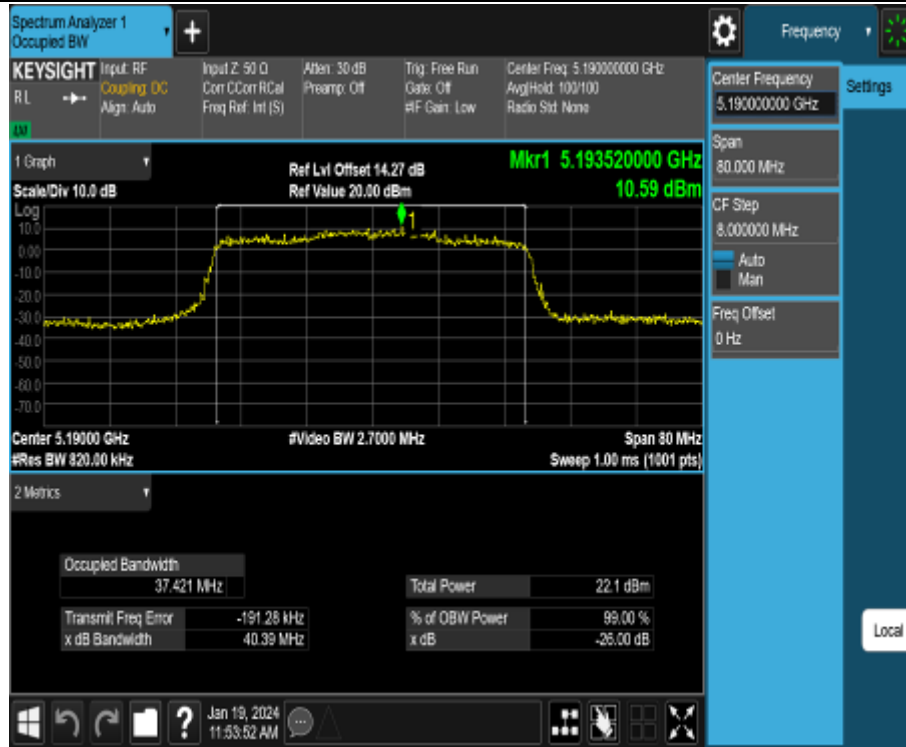
11AX20MIMO_Ant1_5825



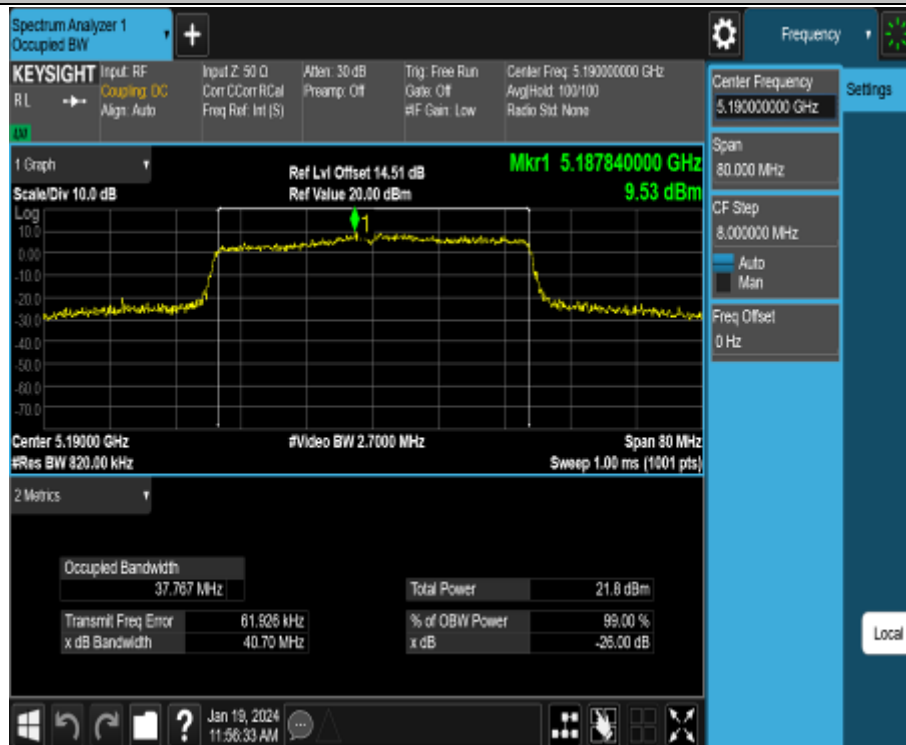
11AX20MIMO_Ant2_5825



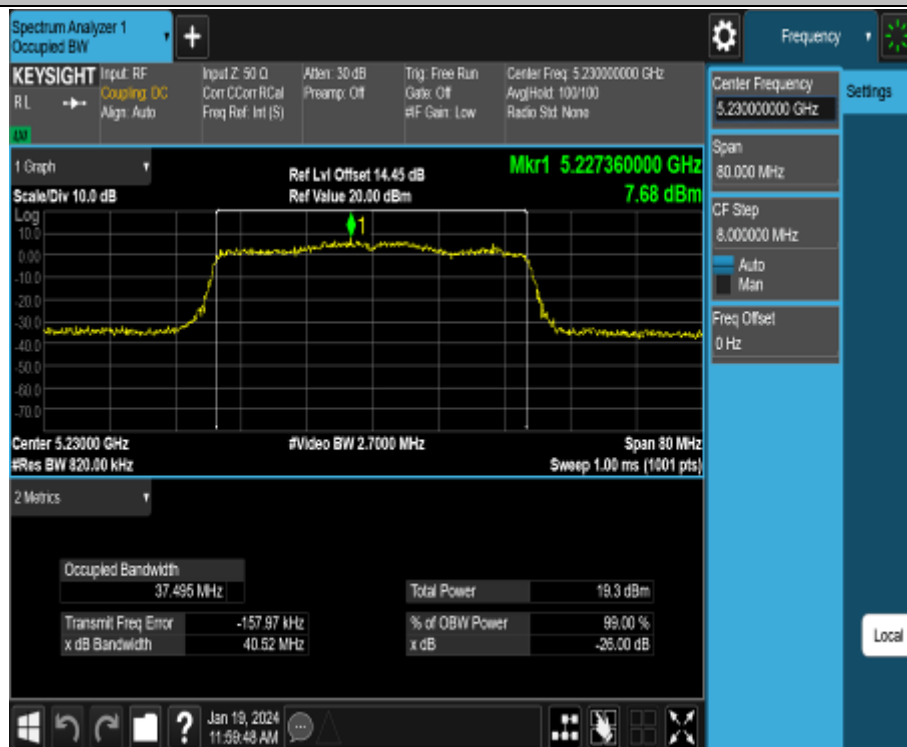
11AX40MIMO_Ant1_5190



11AX40MIMO_Ant2_5190



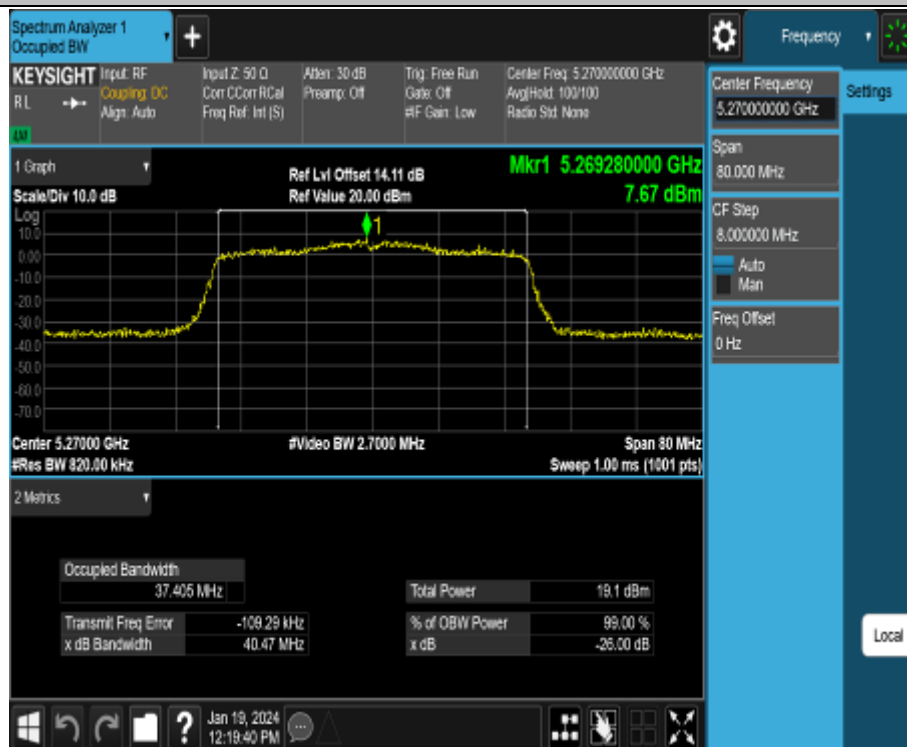
11AX40MIMO_Ant1_5230



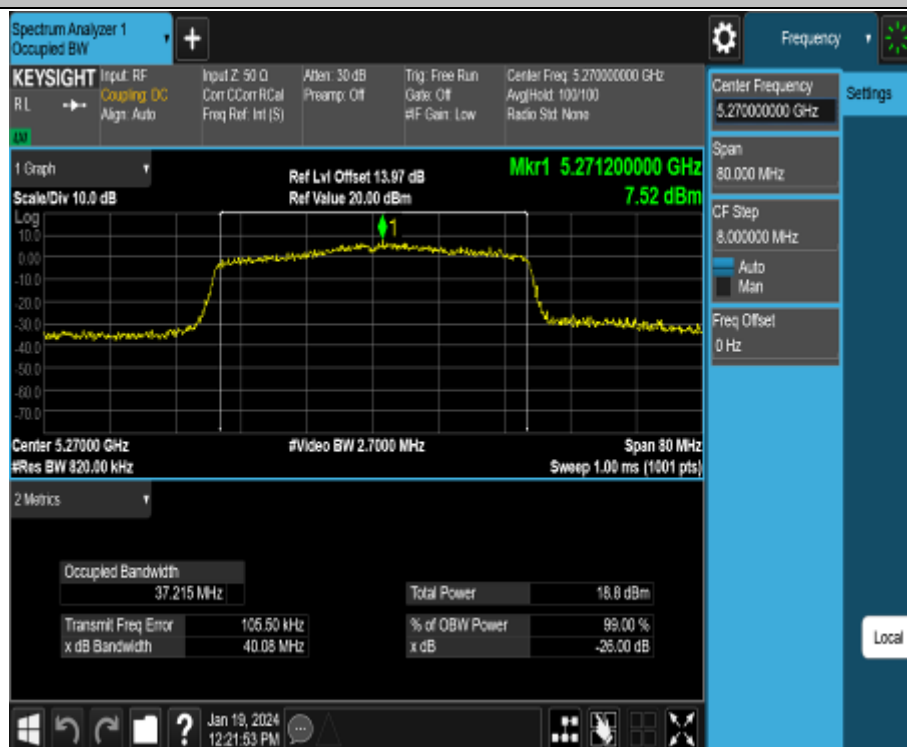
11AX40MIMO_Ant2_5230



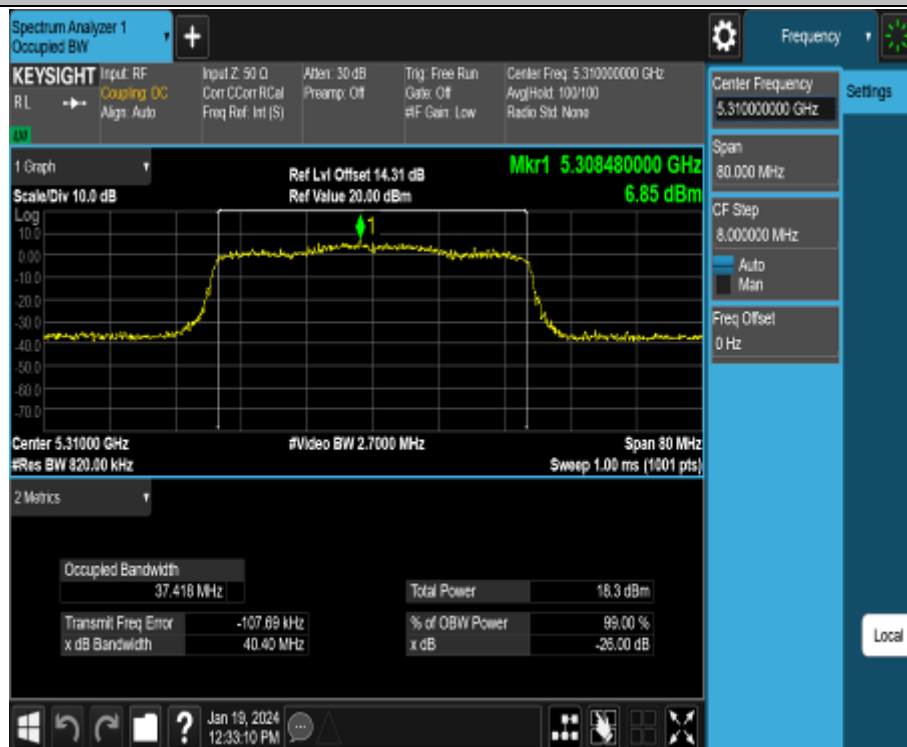
11AX40MIMO_Ant1_5270



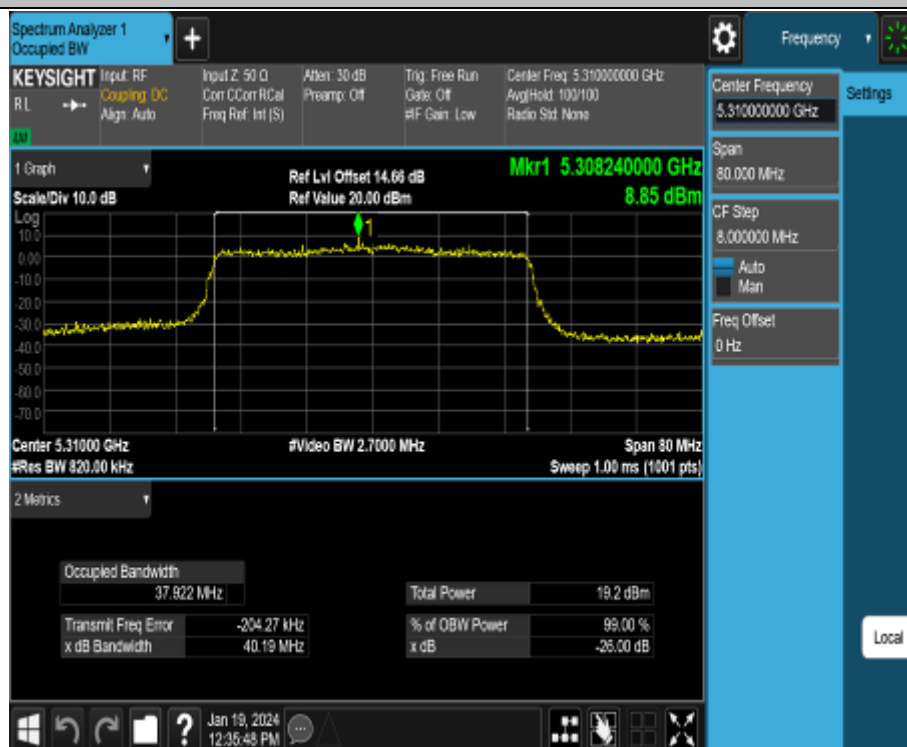
11AX40MIMO_Ant2_5270



11AX40MIMO_Ant1_5310



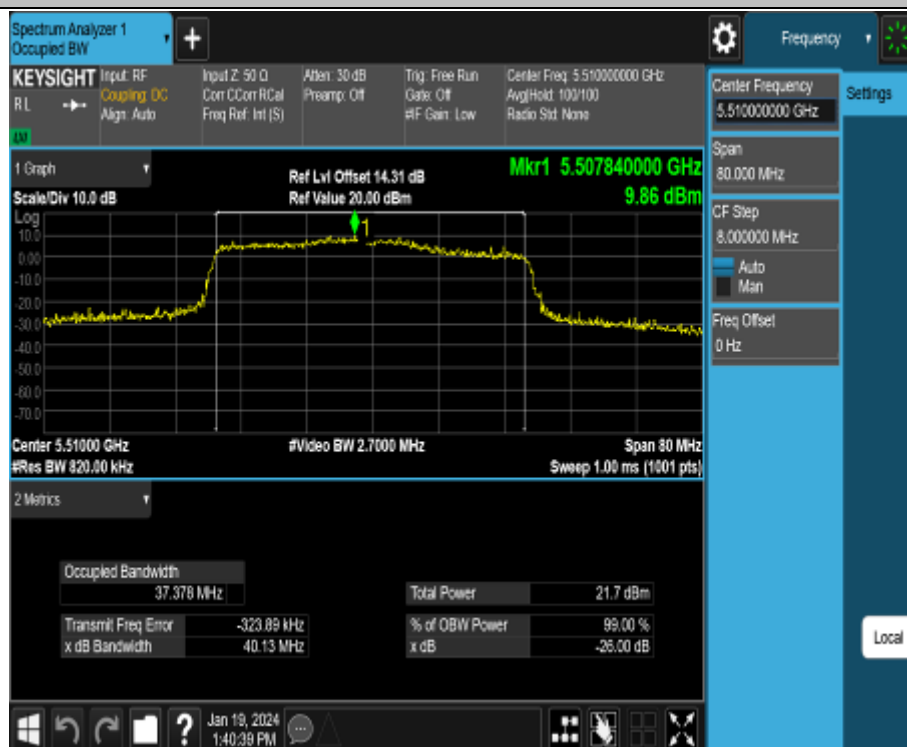
11AX40MIMO_Ant2_5310



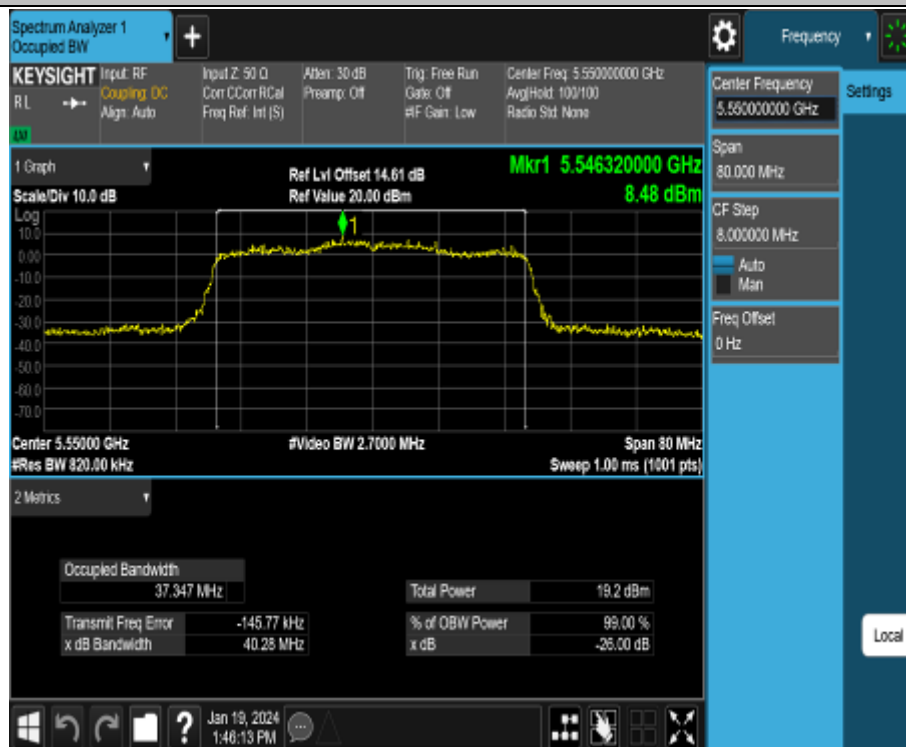
11AX40MIMO_Ant1_5510



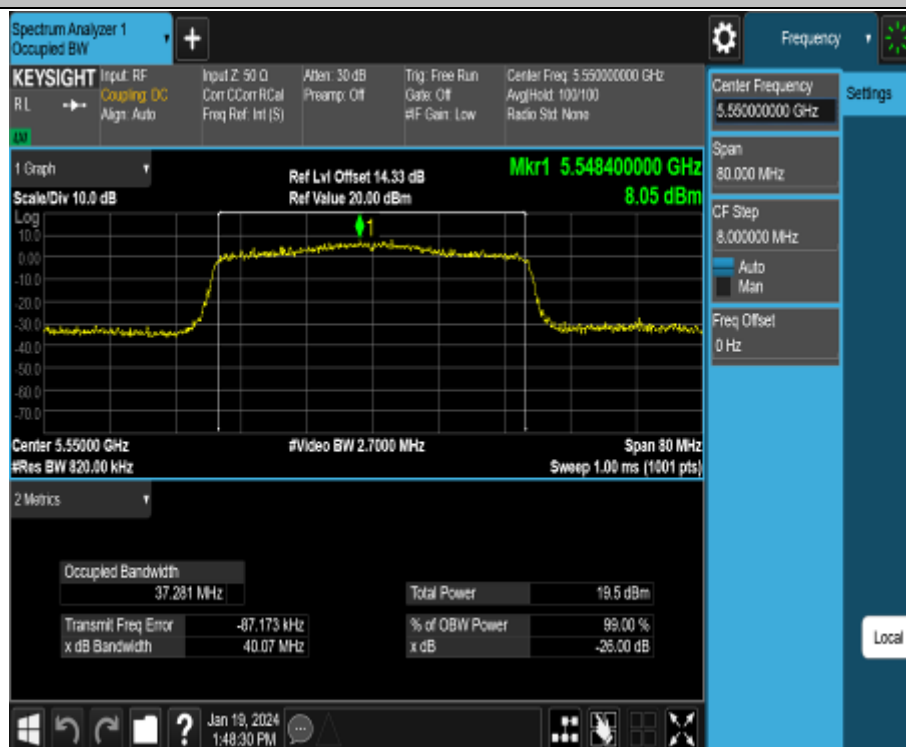
11AX40MIMO_Ant2_5510



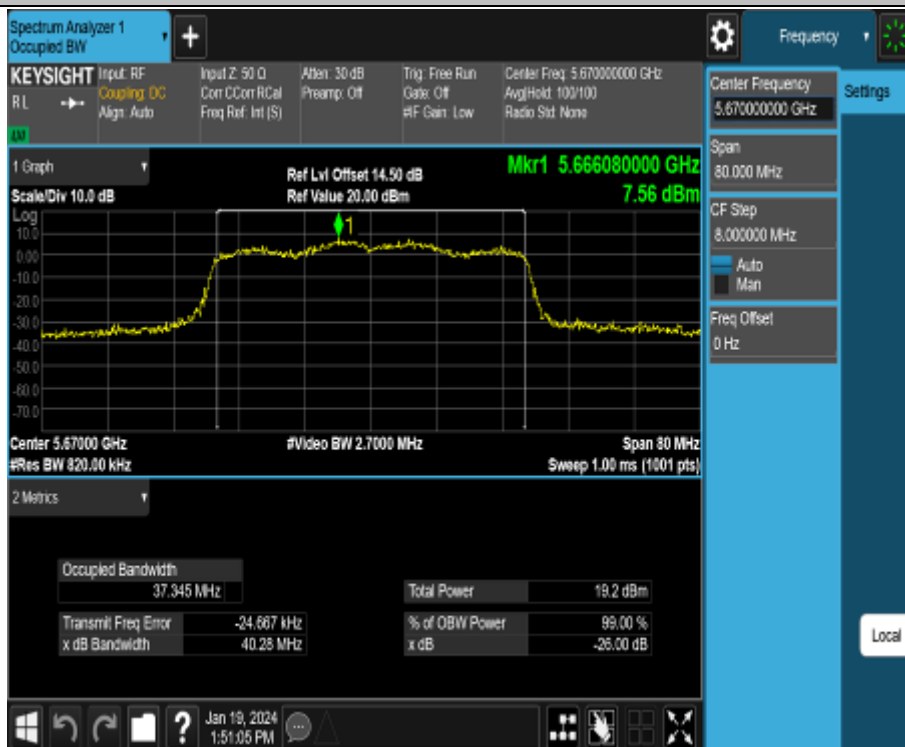
11AX40MIMO_Ant1_5550



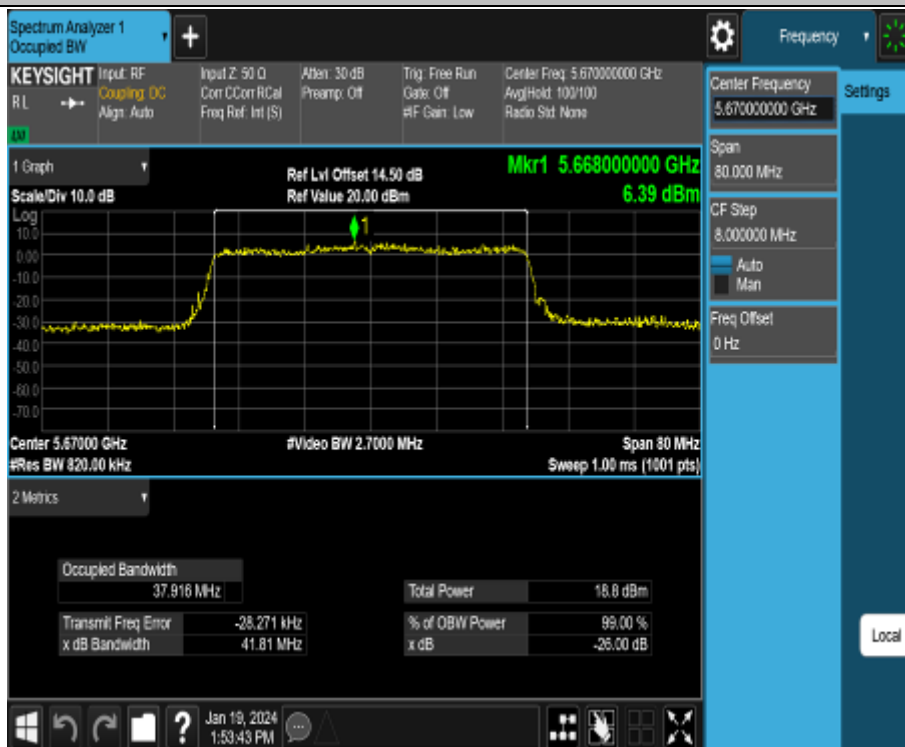
11AX40MIMO_Ant2_5550



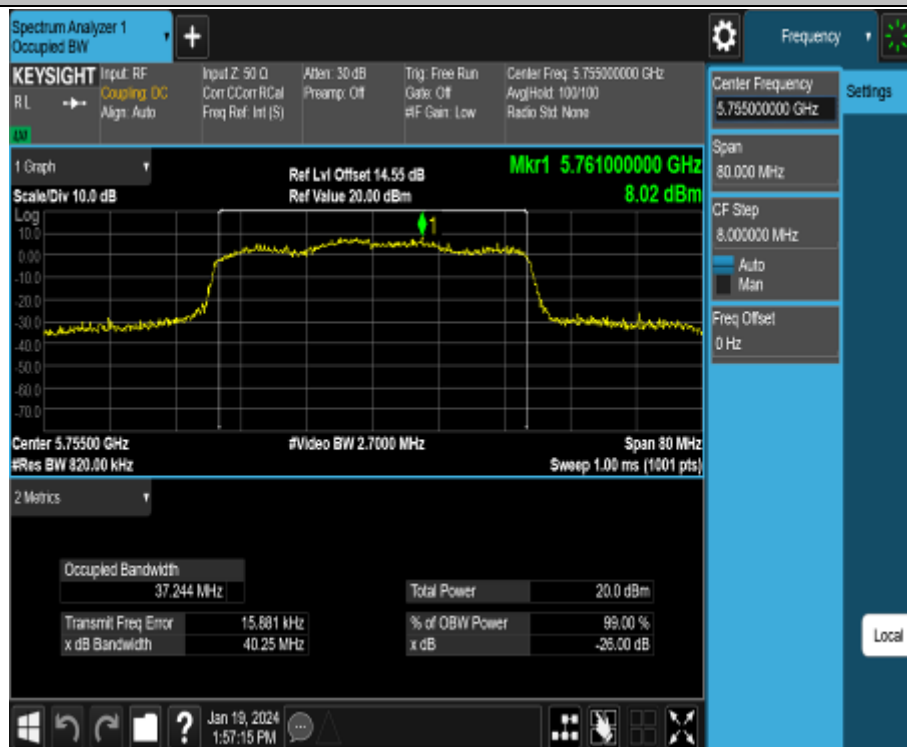
11AX40MIMO_Ant1_5670



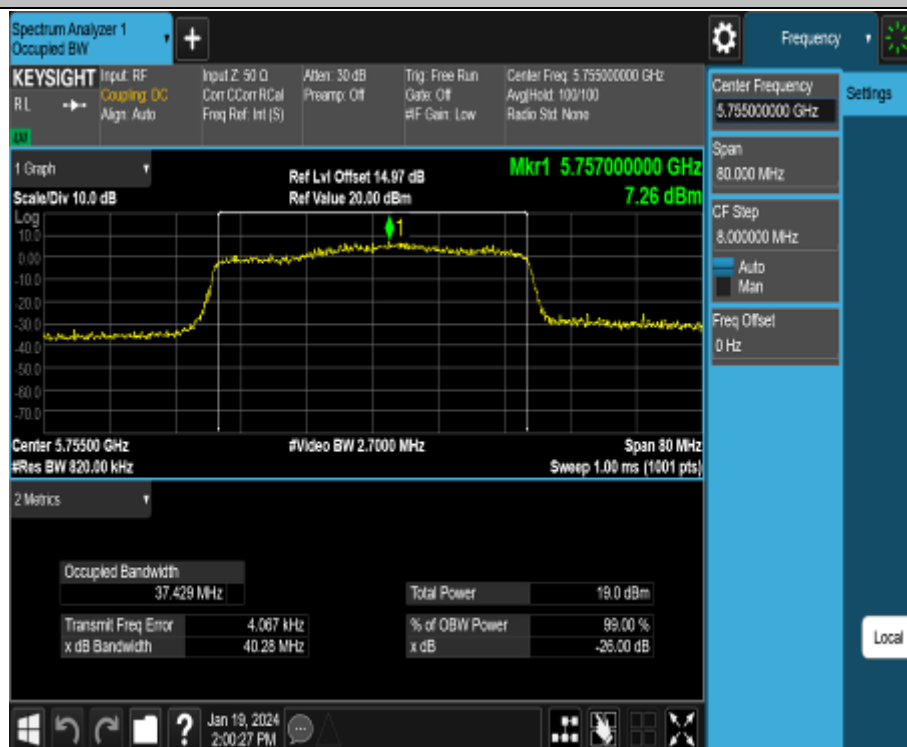
11AX40MIMO_Ant2_5670



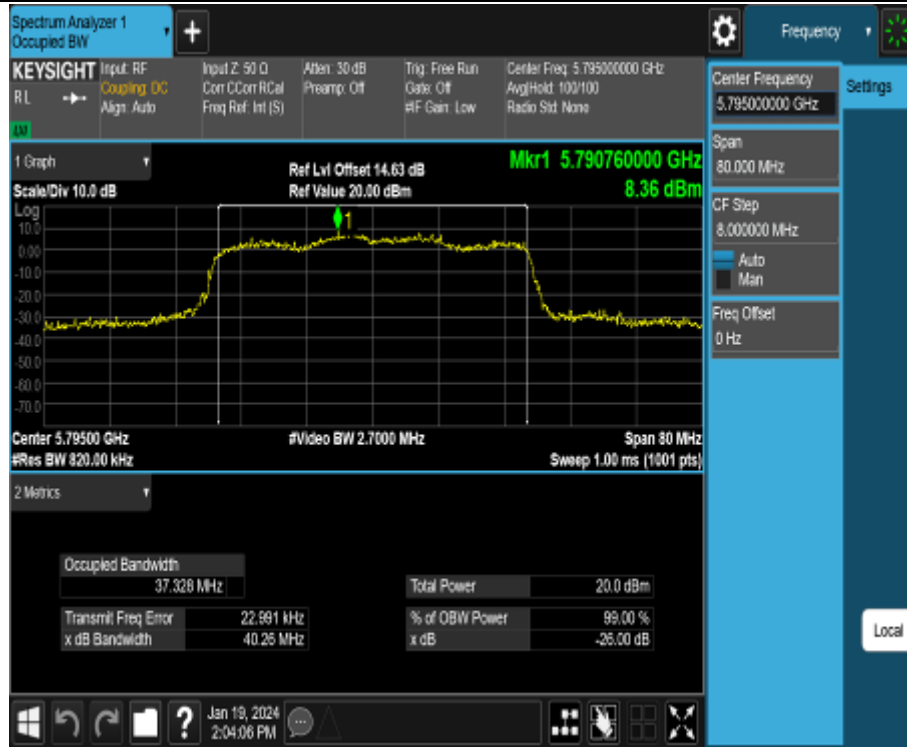
11AX40MIMO_Ant1_5755



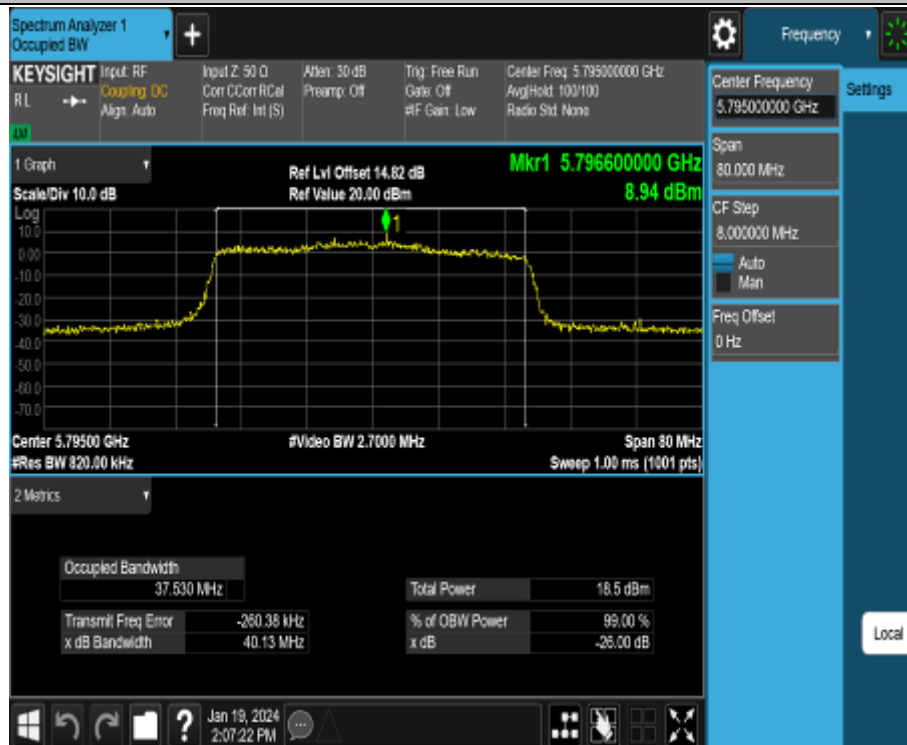
11AX40MIMO_Ant2_5755



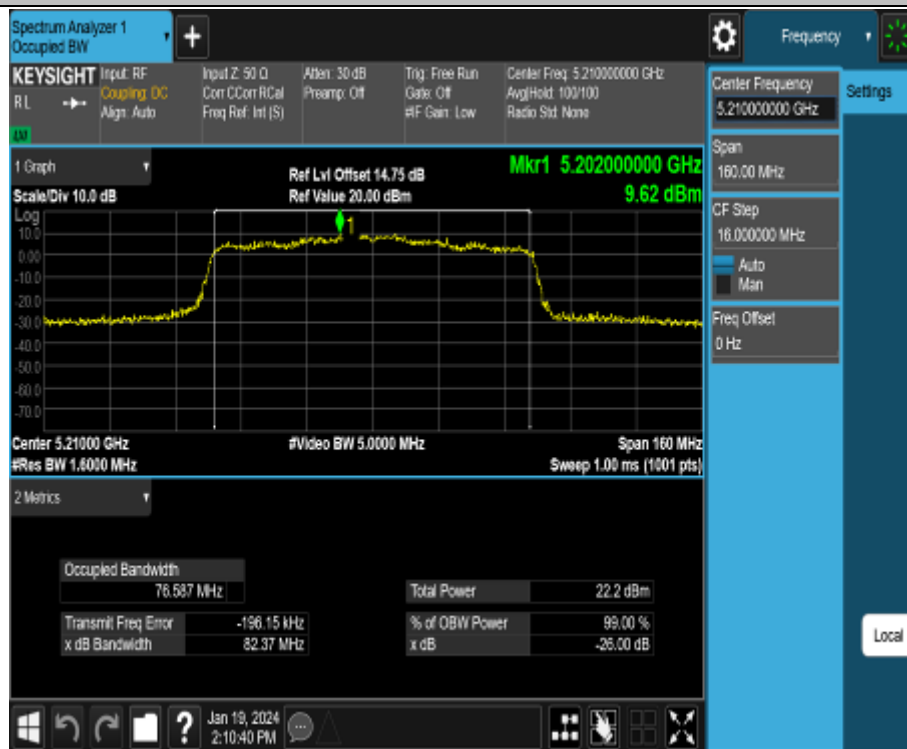
11AX40MIMO_Ant1_5795



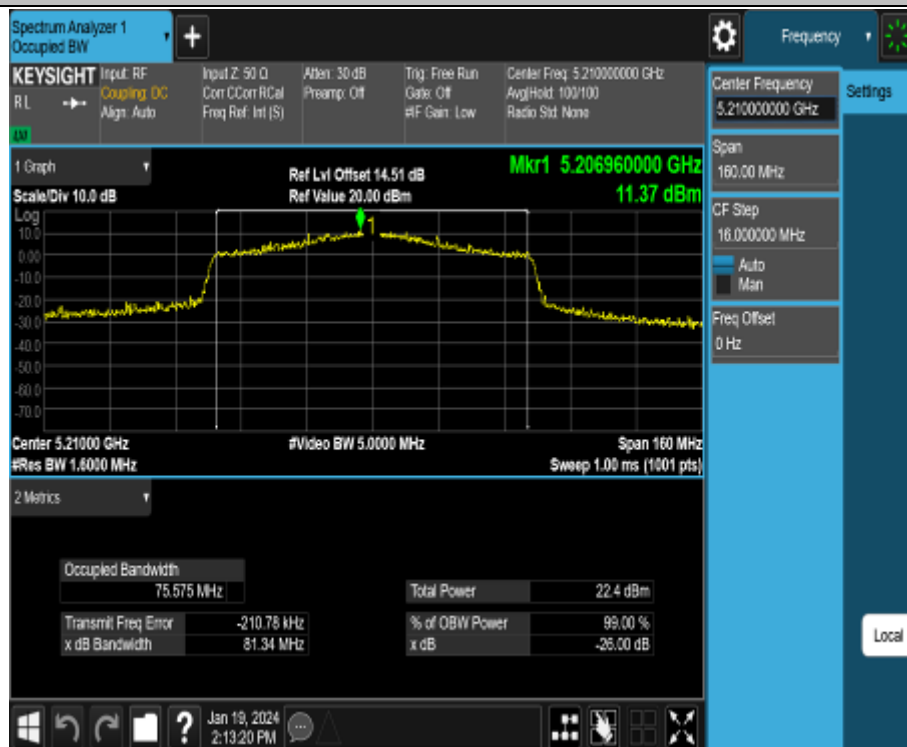
11AX40MIMO_Ant2_5795



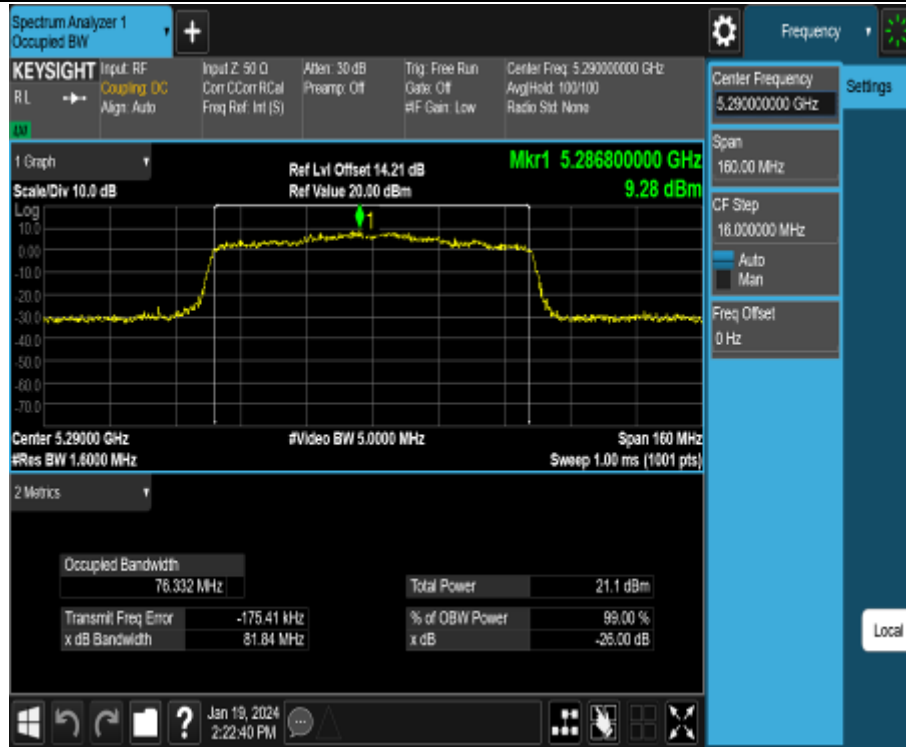
11AX80MIMO_Ant1_5210



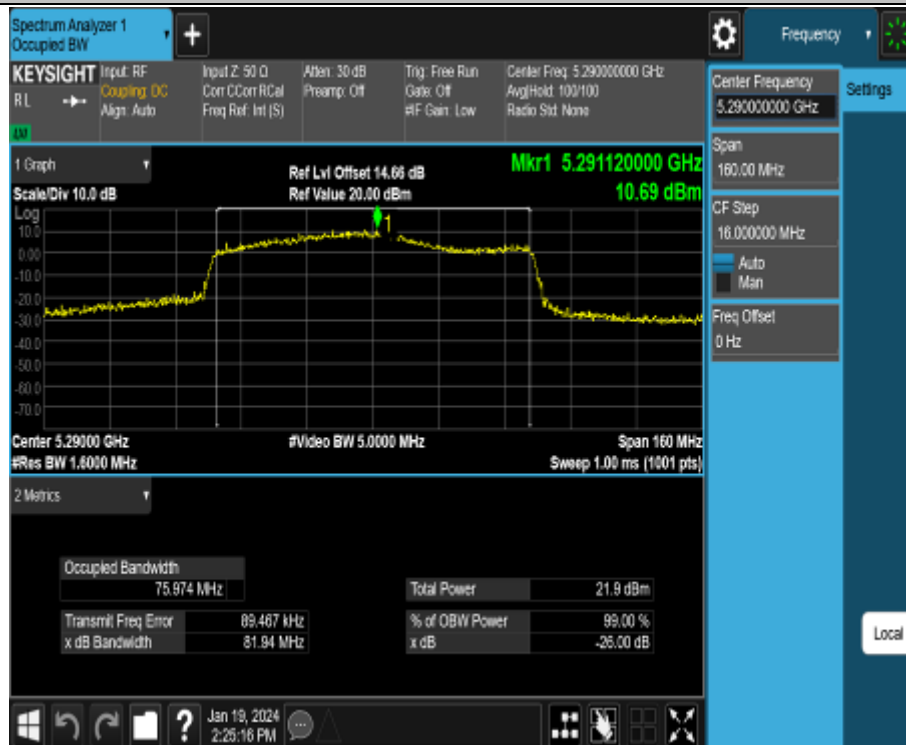
11AX80MIMO_Ant2_5210



11AX80MIMO_Ant1_5290



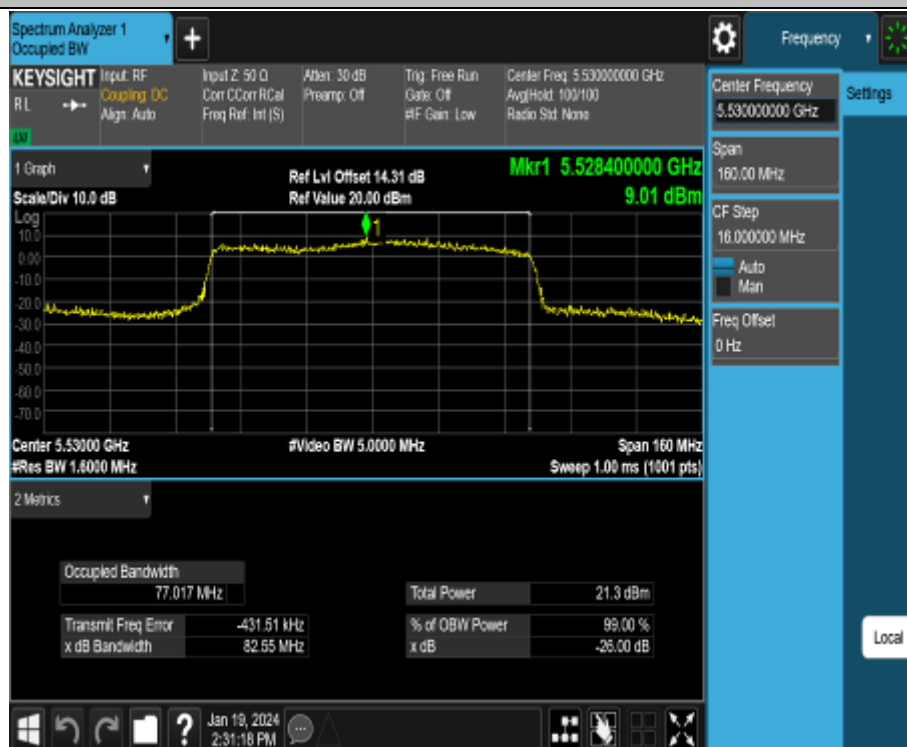
11AX80MIMO_Ant2_5290



11AX80MIMO_Ant1_5530



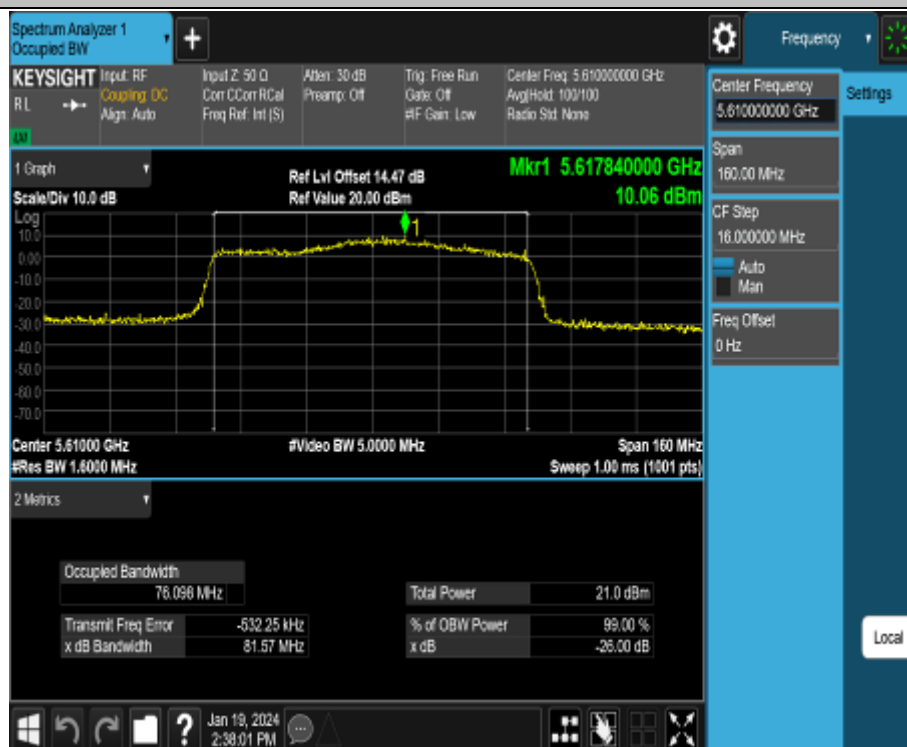
11AX80MIMO_Ant2_5530



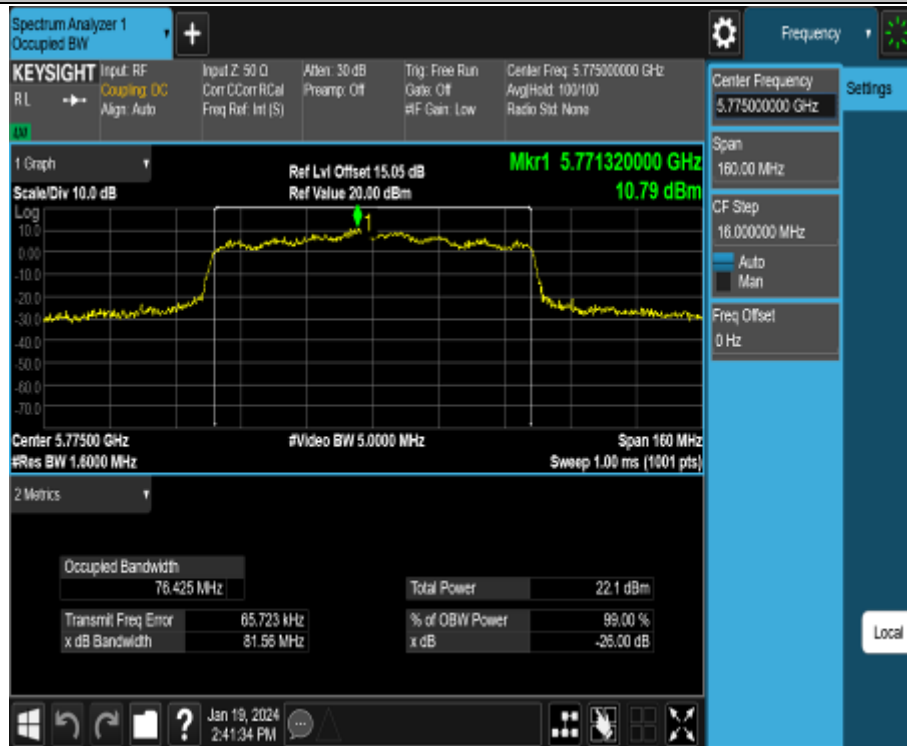
11AX80MIMO_Ant1_5610



11AX80MIMO_Ant2_5610



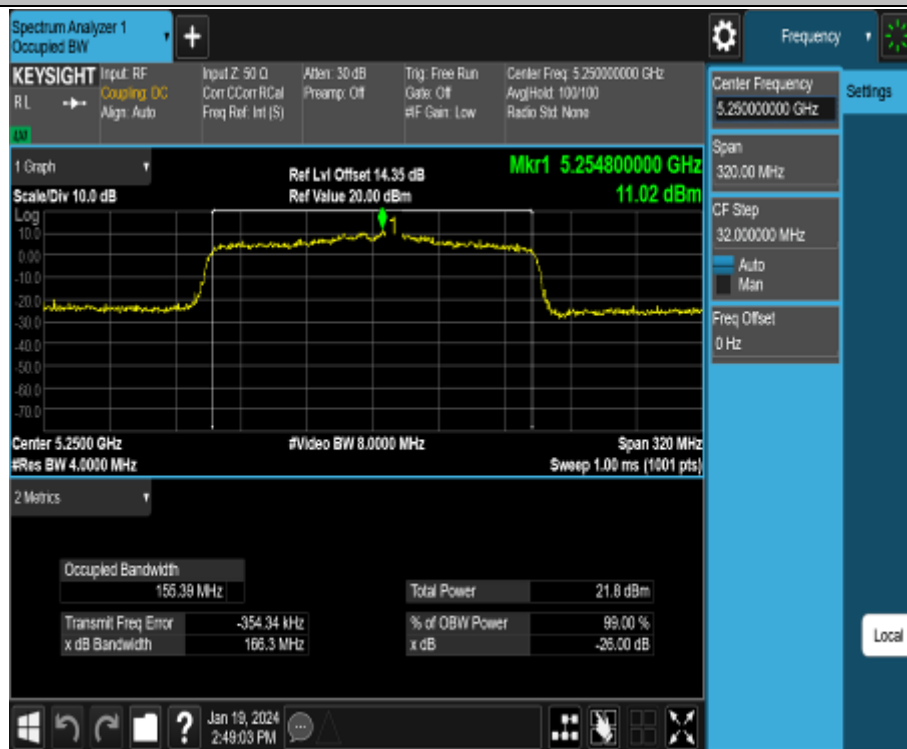
11AX80MIMO_Ant1_5775



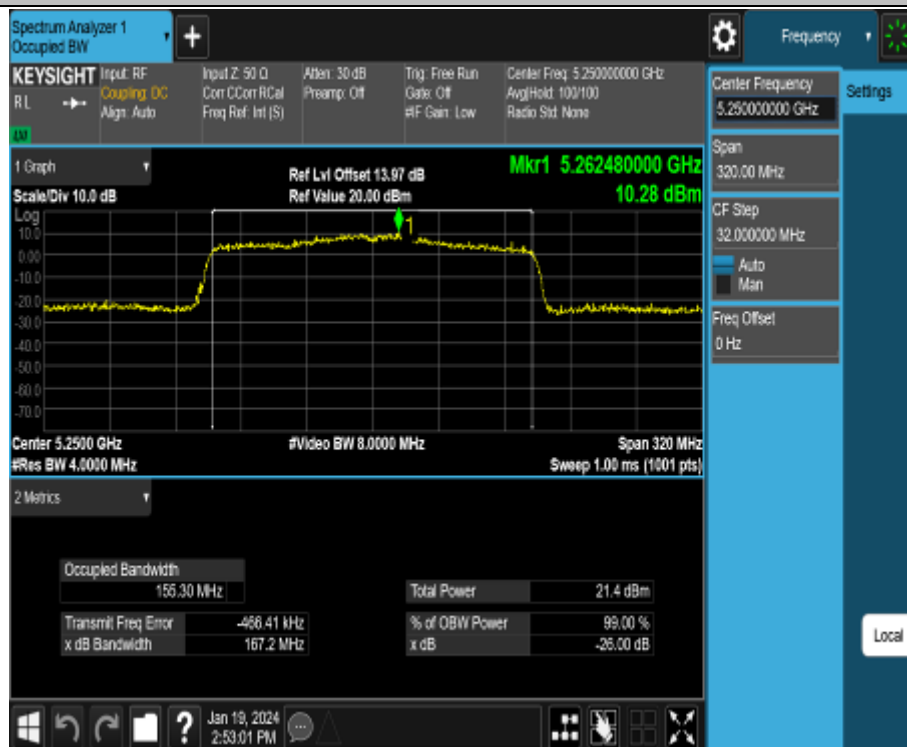
11AX80MIMO_Ant2_5775



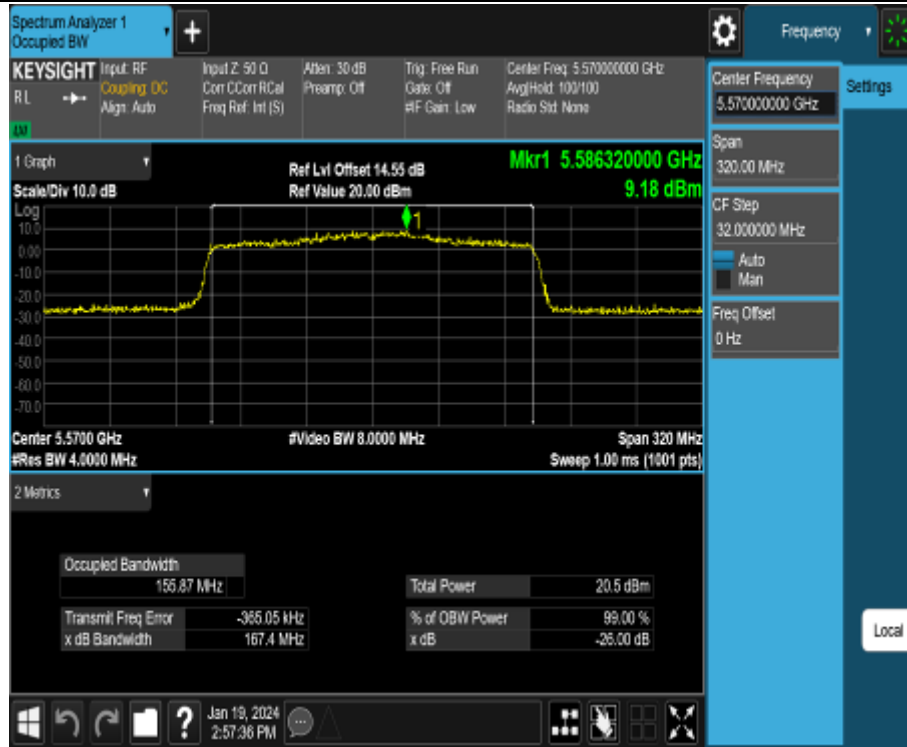
11AX160MIMO_Ant1_5250



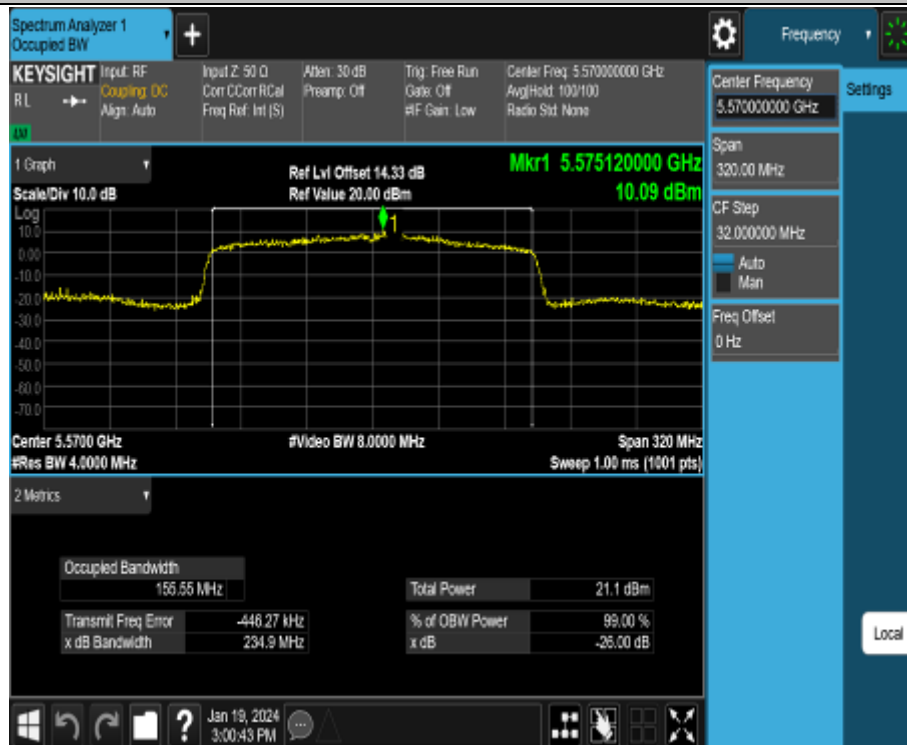
11AX160MIMO_Ant2_5250



11AX160MIMO_Ant1_5570



11AX160MIMO_Ant2_5570



3.3.5.3 Min emission bandwidth

Test Mode	Antenna	Freq(MHz)	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5745	15.160	5737.320	5752.480	0.5	PASS
	Ant2	5745	11.960	5739.840	5751.800	0.5	PASS
	Ant1	5785	16.280	5776.760	5793.040	0.5	PASS
	Ant2	5785	13.800	5777.400	5791.200	0.5	PASS
	Ant1	5825	12.240	5817.640	5829.880	0.5	PASS
	Ant2	5825	11.360	5821.080	5832.440	0.5	PASS
11N20MIMO	Ant1	5745	16.400	5736.720	5753.120	0.5	PASS
	Ant2	5745	16.440	5736.680	5753.120	0.5	PASS
	Ant1	5785	16.400	5776.680	5793.080	0.5	PASS
	Ant2	5785	16.400	5776.680	5793.080	0.5	PASS
	Ant1	5825	16.400	5816.720	5833.120	0.5	PASS
	Ant2	5825	15.680	5817.440	5833.120	0.5	PASS
11N40MIMO	Ant1	5755	34.160	5738.600	5772.760	0.5	PASS
	Ant2	5755	33.760	5739.240	5773.000	0.5	PASS
	Ant1	5795	33.440	5779.240	5812.680	0.5	PASS
	Ant2	5795	33.760	5776.760	5810.520	0.5	PASS
11AC20MIMO	Ant1	5745	14.800	5738.240	5753.040	0.5	PASS
	Ant2	5745	17.560	5736.120	5753.680	0.5	PASS
	Ant1	5785	15.720	5777.320	5793.040	0.5	PASS
	Ant2	5785	12.960	5778.240	5791.200	0.5	PASS
	Ant1	5825	12.560	5819.880	5832.440	0.5	PASS
	Ant2	5825	9.320	5823.000	5832.320	0.5	PASS
11AC40MIMO	Ant1	5755	34.320	5738.360	5772.680	0.5	PASS
	Ant2	5755	30.240	5742.760	5773.000	0.5	PASS
	Ant1	5795	33.840	5777.320	5811.160	0.5	PASS
	Ant2	5795	33.760	5776.760	5810.520	0.5	PASS
11AC80MIMO	Ant1	5775	72.640	5739.800	5812.440	0.5	PASS
	Ant2	5775	31.200	5757.400	5788.600	0.5	PASS
11AX20MIMO	Ant1	5745	14.200	5738.640	5752.840	0.5	PASS
	Ant2	5745	17.600	5736.480	5754.080	0.5	PASS
	Ant1	5785	14.280	5777.320	5791.600	0.5	PASS
	Ant2	5785	13.800	5777.360	5791.160	0.5	PASS
	Ant1	5825	16.320	5817.320	5833.640	0.5	PASS
	Ant2	5825	14.400	5819.960	5834.360	0.5	PASS
11AX40MIMO	Ant1	5755	20.080	5746.120	5766.200	0.5	PASS
	Ant2	5755	35.040	5737.400	5772.440	0.5	PASS
	Ant1	5795	34.560	5778.680	5813.240	0.5	PASS
	Ant2	5795	31.360	5779.800	5811.160	0.5	PASS
11AX80MIMO	Ant1	5775	56.160	5750.040	5806.200	0.5	PASS
	Ant2	5775	18.560	5765.080	5783.640	0.5	PASS

11A-CDD_Ant1_5745



11A-CDD_Ant2_5745



11A-CDD_Ant1_5785



11A-CDD_Ant2_5785



11A-CDD_Ant1_5825



11A-CDD_Ant2_5825



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5745



11AC20MIMO_Ant2_5745



11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825



11AC20MIMO_Ant2_5825



11AC40MIMO_Ant1_5755



11AC40MIMO_Ant2_5755



11AC40MIMO_Ant1_5795



11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



11AX20MIMO_Ant1_5745



11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785



11AX20MIMO_Ant2_5785



11AX20MIMO_Ant1_5825



11AX20MIMO_Ant2_5825



11AX40MIMO_Ant1_5755



11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5775



11AX80MIMO_Ant2_5775



3.4 Conducted Output Power

3.4.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	Master device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- 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.
- 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 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

3.4.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

3.4.3 Test Setup



3.4.4 Table of Parameters of Text Software Setting

UNII-1			
Test Software Version	QSPR		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	15	15	15
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
IEEE 802.11ax(HE20)	16	16	16
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	11	11	
IEEE 802.11ac(VHT40)	11	11	
IEEE 802.11ax(HE40)	11	11	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	10		
IEEE 802.11ax(HE80)	10		

UNII-2A			
Test Software Version	QSPR		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	15	15	15
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
IEEE 802.11ax(HE20)	16	16	16
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	11	11	
IEEE 802.11ac(VHT40)	11	11	
IEEE 802.11ax(HE40)	11	11	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	10		
IEEE 802.11ax(HE80)	10		
Frequency (MHz)	5250		
IEEE 802.11ac(VHT160)	9		
IEEE 802.11ax(HE160)	9		

UNII-2C			
Test Software Version	QSPR		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	15	15	15
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
IEEE 802.11ax(HE20)	16	16	16
Frequency (MHz)	5510	5550	5670
IEEE 802.11n(HT40)	11	11	11
IEEE 802.11ac(VHT40)	11	11	11
IEEE 802.11ax(HE40)	11	11	11
Frequency (MHz)	5530	5610	
IEEE 802.11ac(VHT80)	10	10	
IEEE 802.11ax(HE80)	10	10	
Frequency (MHz)	5570		
IEEE 802.11ac(VHT160)	9		
IEEE 802.11ax(HE160)	9		

UNII-3			
Test Software Version	QSPR		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	15	15	15
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
IEEE 802.11ax(HE20)	16	16	16
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	11	11	
IEEE 802.11ac(VHT40)	11	11	
IEEE 802.11ax(HE40)	11	11	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	10		
IEEE 802.11ax(HE80)	10		

3.4.5 The Result

Test Mode	Antenna	Freq(MHz)	TPC Mode	Result [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	NA	14.96	≤30.00	PASS
	Ant2	5180	NA	14.03	≤30.00	PASS
	total	5180	NA	17.53	≤30.00	PASS
	Ant1	5200	NA	14.78	≤30.00	PASS
	Ant2	5200	NA	13.56	≤30.00	PASS
	total	5200	NA	17.22	≤30.00	PASS
	Ant1	5240	NA	15.34	≤30.00	PASS
	Ant2	5240	NA	14.14	≤30.00	PASS
	total	5240	NA	17.79	≤30.00	PASS
	Ant1	5260	NA	13.87	≤23.61	PASS
	Ant2	5260	NA	13.09	≤23.65	PASS
	total	5260	NA	16.51	≤23.98	PASS
	Ant1	5280	NA	13.13	≤23.67	PASS
	Ant2	5280	NA	13.02	≤23.98	PASS
	total	5280	NA	16.09	≤23.98	PASS
	Ant1	5320	NA	13.80	≤23.70	PASS
	Ant2	5320	NA	15.04	≤23.88	PASS
	total	5320	NA	17.47	≤23.98	PASS
	Ant1	5500	NA	14.49	≤23.67	PASS
	Ant2	5500	NA	15.08	≤23.77	PASS
	total	5500	NA	17.81	≤23.98	PASS
	Ant1	5580	NA	13.50	≤23.65	PASS
	Ant2	5580	NA	14.32	≤23.75	PASS
	total	5580	NA	16.94	≤23.98	PASS
	Ant1	5700	NA	14.36	≤23.74	PASS
	Ant2	5700	NA	13.69	≤23.81	PASS
	total	5700	NA	17.05	≤23.98	PASS
	Ant1	5745	NA	14.75	≤30.00	PASS
	Ant2	5745	NA	13.63	≤30.00	PASS
	total	5745	NA	17.24	≤30.00	PASS
	Ant1	5785	NA	14.84	≤30.00	PASS
	Ant2	5785	NA	13.04	≤30.00	PASS
	total	5785	NA	17.04	≤30.00	PASS
	Ant1	5825	NA	15.12	≤30.00	PASS
	Ant2	5825	NA	13.38	≤30.00	PASS
	total	5825	NA	17.35	≤30.00	PASS
11N20MIMO	Ant1	5180	NA	14.85	≤30.00	PASS
	Ant2	5180	NA	15.42	≤30.00	PASS

	total	5180	NA	18.15	≤30.00	PASS
	Ant1	5200	NA	14.12	≤30.00	PASS
	Ant2	5200	NA	13.42	≤30.00	PASS
	total	5200	NA	16.79	≤30.00	PASS
	Ant1	5240	NA	13.30	≤30.00	PASS
	Ant2	5240	NA	13.36	≤30.00	PASS
	total	5240	NA	16.34	≤30.00	PASS
	Ant1	5260	NA	13.36	≤23.80	PASS
	Ant2	5260	NA	13.53	≤23.98	PASS
	total	5260	NA	16.46	≤23.98	PASS
	Ant1	5280	NA	13.06	≤23.90	PASS
	Ant2	5280	NA	12.54	≤23.98	PASS
	total	5280	NA	15.82	≤23.98	PASS
	Ant1	5320	NA	13.19	≤23.91	PASS
	Ant2	5320	NA	14.87	≤23.97	PASS
	total	5320	NA	17.12	≤23.98	PASS
	Ant1	5500	NA	13.98	≤23.97	PASS
	Ant2	5500	NA	14.23	≤23.98	PASS
	total	5500	NA	17.12	≤23.98	PASS
	Ant1	5580	NA	13.02	≤23.97	PASS
	Ant2	5580	NA	13.64	≤23.98	PASS
	total	5580	NA	16.35	≤23.98	PASS
	Ant1	5700	NA	13.73	≤23.97	PASS
	Ant2	5700	NA	13.43	≤23.98	PASS
	total	5700	NA	16.59	≤23.98	PASS
	Ant1	5745	NA	14.87	≤30.00	PASS
	Ant2	5745	NA	13.66	≤30.00	PASS
	total	5745	NA	17.32	≤30.00	PASS
	Ant1	5785	NA	14.36	≤30.00	PASS
	Ant2	5785	NA	12.67	≤30.00	PASS
	total	5785	NA	16.61	≤30.00	PASS
	Ant1	5825	NA	14.88	≤30.00	PASS
	Ant2	5825	NA	13.25	≤30.00	PASS
	total	5825	NA	17.15	≤30.00	PASS
11N40MIMO	Ant1	5190	NA	13.30	≤30.00	PASS
	Ant2	5190	NA	13.03	≤30.00	PASS
	total	5190	NA	16.18	≤30.00	PASS
	Ant1	5230	NA	11.71	≤30.00	PASS
	Ant2	5230	NA	12.34	≤30.00	PASS
	total	5230	NA	15.05	≤30.00	PASS
	Ant1	5270	NA	11.79	≤23.98	PASS
	Ant2	5270	NA	11.67	≤23.98	PASS

	total	5270	NA	14.74	≤23.98	PASS
	Ant1	5310	NA	10.70	≤23.98	PASS
	Ant2	5310	NA	11.73	≤23.98	PASS
	total	5310	NA	14.26	≤23.98	PASS
	Ant1	5510	NA	11.37	≤23.98	PASS
	Ant2	5510	NA	11.83	≤23.98	PASS
	total	5510	NA	14.62	≤23.98	PASS
	Ant1	5550	NA	10.87	≤23.98	PASS
	Ant2	5550	NA	11.01	≤23.98	PASS
	total	5550	NA	13.95	≤23.98	PASS
	Ant1	5670	NA	12.24	≤23.98	PASS
	Ant2	5670	NA	11.36	≤23.98	PASS
	total	5670	NA	14.83	≤23.98	PASS
	Ant1	5755	NA	13.07	≤30.00	PASS
	Ant2	5755	NA	11.58	≤30.00	PASS
	total	5755	NA	15.40	≤30.00	PASS
	Ant1	5795	NA	13.32	≤30.00	PASS
	Ant2	5795	NA	11.48	≤30.00	PASS
	total	5795	NA	15.51	≤30.00	PASS
11AC20MIMO	Ant1	5180	NA	13.55	≤30.00	PASS
	Ant2	5180	NA	13.74	≤30.00	PASS
	total	5180	NA	16.66	≤30.00	PASS
	Ant1	5200	NA	13.81	≤30.00	PASS
	Ant2	5200	NA	13.41	≤30.00	PASS
	total	5200	NA	16.62	≤30.00	PASS
	Ant1	5240	NA	12.68	≤30.00	PASS
	Ant2	5240	NA	13.35	≤30.00	PASS
	total	5240	NA	16.04	≤30.00	PASS
	Ant1	5260	NA	13.10	≤23.93	PASS
	Ant2	5260	NA	13.16	≤23.90	PASS
	total	5260	NA	16.14	≤23.98	PASS
	Ant1	5280	NA	12.62	≤23.96	PASS
	Ant2	5280	NA	12.73	≤23.98	PASS
	total	5280	NA	15.69	≤23.98	PASS
	Ant1	5320	NA	12.10	≤23.90	PASS
	Ant2	5320	NA	13.63	≤23.98	PASS
	total	5320	NA	15.94	≤23.98	PASS
	Ant1	5500	NA	13.73	≤23.98	PASS
	Ant2	5500	NA	14.25	≤23.93	PASS
	total	5500	NA	17.01	≤23.98	PASS
	Ant1	5580	NA	13.07	≤23.85	PASS
	Ant2	5580	NA	13.43	≤23.90	PASS

	total	5580	NA	16.26	≤23.98	PASS
	Ant1	5700	NA	13.85	≤23.98	PASS
	Ant2	5700	NA	13.20	≤23.98	PASS
	total	5700	NA	16.55	≤23.98	PASS
	Ant1	5745	NA	14.33	≤30.00	PASS
	Ant2	5745	NA	13.21	≤30.00	PASS
	total	5745	NA	16.82	≤30.00	PASS
	Ant1	5785	NA	14.47	≤30.00	PASS
	Ant2	5785	NA	12.36	≤30.00	PASS
	total	5785	NA	16.55	≤30.00	PASS
	Ant1	5825	NA	14.49	≤30.00	PASS
	Ant2	5825	NA	12.97	≤30.00	PASS
11AC40MIMO	total	5825	NA	16.81	≤30.00	PASS
	Ant1	5190	NA	13.18	≤30.00	PASS
	Ant2	5190	NA	13.04	≤30.00	PASS
	total	5190	NA	16.12	≤30.00	PASS
	Ant1	5230	NA	11.56	≤30.00	PASS
	Ant2	5230	NA	12.56	≤30.00	PASS
	total	5230	NA	15.10	≤30.00	PASS
	Ant1	5270	NA	11.55	≤23.98	PASS
	Ant2	5270	NA	11.65	≤23.98	PASS
	total	5270	NA	14.61	≤23.98	PASS
	Ant1	5310	NA	10.88	≤23.98	PASS
	Ant2	5310	NA	11.76	≤23.98	PASS
	total	5310	NA	14.35	≤23.98	PASS
	Ant1	5510	NA	11.60	≤23.98	PASS
	Ant2	5510	NA	12.11	≤23.98	PASS
	total	5510	NA	14.87	≤23.98	PASS
	Ant1	5550	NA	10.75	≤23.98	PASS
	Ant2	5550	NA	10.89	≤23.98	PASS
	total	5550	NA	13.83	≤23.98	PASS
	Ant1	5670	NA	12.13	≤23.98	PASS
	Ant2	5670	NA	11.27	≤23.98	PASS
	total	5670	NA	14.73	≤23.98	PASS
	Ant1	5755	NA	12.73	≤30.00	PASS
	Ant2	5755	NA	11.52	≤30.00	PASS
	total	5755	NA	15.18	≤30.00	PASS
	Ant1	5795	NA	12.81	≤30.00	PASS
	Ant2	5795	NA	10.99	≤30.00	PASS
	total	5795	NA	15.00	≤30.00	PASS
11AC80MIMO	Ant1	5210	NA	12.76	≤30.00	PASS
	Ant2	5210	NA	13.09	≤30.00	PASS

	total	5210	NA	15.94	≤ 30.00	PASS
	Ant1	5290	NA	11.86	≤ 23.98	PASS
	Ant2	5290	NA	12.59	≤ 23.98	PASS
	total	5290	NA	15.25	≤ 23.98	PASS
	Ant1	5530	NA	11.18	≤ 23.98	PASS
	Ant2	5530	NA	12.11	≤ 23.98	PASS
	total	5530	NA	14.68	≤ 23.98	PASS
	Ant1	5610	NA	11.46	≤ 23.98	PASS
	Ant2	5610	NA	11.34	≤ 23.98	PASS
	total	5610	NA	14.41	≤ 23.98	PASS
	Ant1	5775	NA	12.89	≤ 30.00	PASS
	Ant2	5775	NA	10.83	≤ 30.00	PASS
11AC160MIMO	total	5775	NA	14.99	≤ 30.00	PASS
	Ant1	5250_UNII-1	NA	11.19	≤ 30.00	PASS
	Ant2	5250_UNII-1	NA	11.18	≤ 30.00	PASS
	total	5250_UNII-1	NA	14.20	≤ 30.00	PASS
	Ant1	5250_UNII-2A	NA	10.66	≤ 23.98	PASS
	Ant2	5250_UNII-2A	NA	9.90	≤ 23.98	PASS
	total	5250_UNII-2A	NA	13.31	≤ 23.98	PASS
	Ant1	5570	NA	12.50	≤ 23.98	PASS
11AX20MIMO	Ant2	5570	NA	12.77	≤ 23.98	PASS
	total	5570	NA	15.65	≤ 23.98	PASS
	Ant1	5180	NA	13.87	≤ 30.00	PASS
	Ant2	5180	NA	13.65	≤ 30.00	PASS
	total	5180	NA	16.77	≤ 30.00	PASS
	Ant1	5200	NA	14.16	≤ 30.00	PASS
	Ant2	5200	NA	13.28	≤ 30.00	PASS
	total	5200	NA	16.75	≤ 30.00	PASS
	Ant1	5240	NA	13.21	≤ 30.00	PASS
	Ant2	5240	NA	13.68	≤ 30.00	PASS
	total	5240	NA	16.46	≤ 30.00	PASS
	Ant1	5260	NA	13.71	≤ 23.98	PASS
	Ant2	5260	NA	13.37	≤ 23.98	PASS
	total	5260	NA	16.55	≤ 23.98	PASS
	Ant1	5280	NA	13.30	≤ 23.98	PASS
	Ant2	5280	NA	12.80	≤ 23.98	PASS
	total	5280	NA	16.07	≤ 23.98	PASS
	Ant1	5320	NA	12.55	≤ 23.98	PASS
	Ant2	5320	NA	13.81	≤ 23.98	PASS
	total	5320	NA	16.24	≤ 23.98	PASS
	Ant1	5500	NA	13.18	≤ 23.98	PASS
	Ant2	5500	NA	13.65	≤ 23.98	PASS

	total	5500	NA	16.43	≤23.98	PASS
	Ant1	5580	NA	12.13	≤23.98	PASS
	Ant2	5580	NA	12.83	≤23.98	PASS
	total	5580	NA	15.50	≤23.98	PASS
	Ant1	5700	NA	12.26	≤23.98	PASS
	Ant2	5700	NA	12.10	≤23.98	PASS
	total	5700	NA	15.19	≤23.98	PASS
	Ant1	5745	NA	14.13	≤30.00	PASS
	Ant2	5745	NA	13.09	≤30.00	PASS
	total	5745	NA	16.65	≤30.00	PASS
	Ant1	5785	NA	14.68	≤30.00	PASS
	Ant2	5785	NA	12.69	≤30.00	PASS
	total	5785	NA	16.81	≤30.00	PASS
	Ant1	5825	NA	14.84	≤30.00	PASS
	Ant2	5825	NA	13.34	≤30.00	PASS
	total	5825	NA	17.16	≤30.00	PASS
11AX40MIMO	Ant1	5190	NA	14.29	≤30.00	PASS
	Ant2	5190	NA	14.21	≤30.00	PASS
	total	5190	NA	17.26	≤30.00	PASS
	Ant1	5230	NA	11.68	≤30.00	PASS
	Ant2	5230	NA	12.45	≤30.00	PASS
	total	5230	NA	15.09	≤30.00	PASS
	Ant1	5270	NA	11.47	≤23.98	PASS
	Ant2	5270	NA	11.42	≤23.98	PASS
	total	5270	NA	14.46	≤23.98	PASS
	Ant1	5310	NA	10.69	≤23.98	PASS
	Ant2	5310	NA	11.24	≤23.98	PASS
	total	5310	NA	13.98	≤23.98	PASS
	Ant1	5510	NA	13.30	≤23.98	PASS
	Ant2	5510	NA	14.20	≤23.98	PASS
	total	5510	NA	16.78	≤23.98	PASS
	Ant1	5550	NA	11.53	≤23.98	PASS
	Ant2	5550	NA	11.96	≤23.98	PASS
	total	5550	NA	14.76	≤23.98	PASS
	Ant1	5670	NA	11.55	≤23.98	PASS
	Ant2	5670	NA	11.09	≤23.98	PASS
	total	5670	NA	14.34	≤23.98	PASS
	Ant1	5755	NA	12.38	≤30.00	PASS
	Ant2	5755	NA	11.37	≤30.00	PASS
	total	5755	NA	14.91	≤30.00	PASS
	Ant1	5795	NA	12.41	≤30.00	PASS
	Ant2	5795	NA	10.79	≤30.00	PASS

	total	5795	NA	14.69	≤ 30.00	PASS
11AX80MIMO	Ant1	5210	NA	14.24	≤ 30.00	PASS
	Ant2	5210	NA	14.24	≤ 30.00	PASS
	total	5210	NA	17.25	≤ 30.00	PASS
	Ant1	5290	NA	13.04	≤ 23.98	PASS
	Ant2	5290	NA	13.68	≤ 23.98	PASS
	total	5290	NA	16.38	≤ 23.98	PASS
	Ant1	5530	NA	12.27	≤ 23.98	PASS
	Ant2	5530	NA	13.35	≤ 23.98	PASS
	total	5530	NA	15.85	≤ 23.98	PASS
	Ant1	5610	NA	12.67	≤ 23.98	PASS
	Ant2	5610	NA	12.73	≤ 23.98	PASS
	total	5610	NA	15.71	≤ 23.98	PASS
	Ant1	5775	NA	14.02	≤ 30.00	PASS
	Ant2	5775	NA	12.04	≤ 30.00	PASS
	total	5775	NA	16.15	≤ 30.00	PASS
11AX160MIMO	Ant1	5250_UNII-1	NA	10.09	≤ 30.00	PASS
	Ant2	5250_UNII-1	NA	10.01	≤ 30.00	PASS
	total	5250_UNII-1	NA	13.06	≤ 30.00	PASS
	Ant1	5250_UNII-2A	NA	9.82	≤ 23.98	PASS
	Ant2	5250_UNII-2A	NA	9.32	≤ 23.98	PASS
	total	5250_UNII-2A	NA	12.59	≤ 23.98	PASS
	Ant1	5570	NA	11.61	≤ 23.98	PASS
	Ant2	5570	NA	12.31	≤ 23.98	PASS
	total	5570	NA	14.98	≤ 23.98	PASS

Note: The Duty Cycle Factor is compensated in the test system

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

If transmit signals are correlated, then Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ 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 coherently.]

Directional gain = $10 \log[(10^{1.84/20} + 10^{2.74/20})^2 / N_{ANT}]$ dBi=5.31

3.5 Power Spectral Density

3.5.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Master device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/300 kHz) to the measured result, i.e. 2.22 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, offset=cable loss+duty factor+10log(500kHz/300kHz).

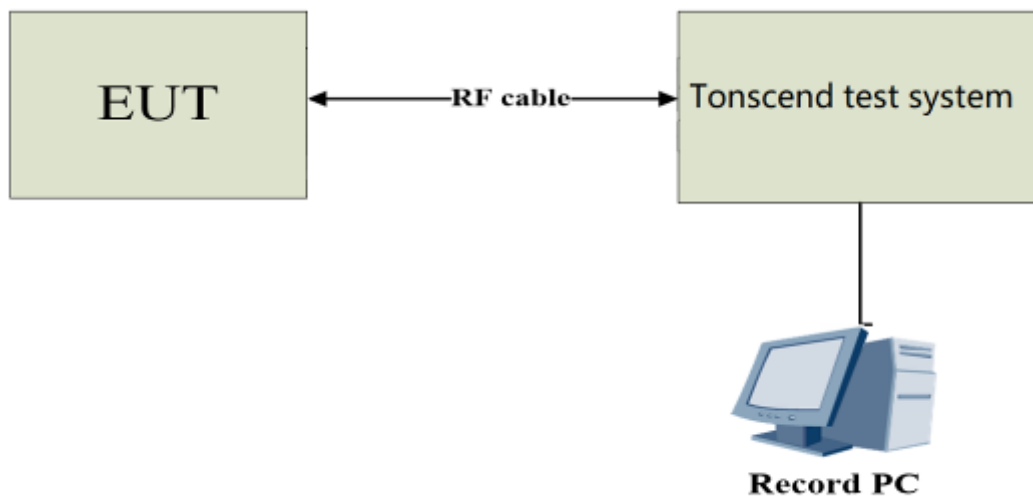
3.5.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ Test ☐ No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

Centre Frequency	The centre frequency of the channel under test
RBW	= 1 MHz (Band1/2/3); = 300kHz (Band4)
VBW	≥3 x RBW
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	Auto Couple

3.5.3 Test Setup



3.5.4 The Result

Test Mode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	4.86	≤17.00	PASS
	Ant2	5180	4.23	≤17.00	PASS
	total	5180	7.57	≤17.00	PASS
	Ant1	5200	4.62	≤17.00	PASS
	Ant2	5200	4.62	≤17.00	PASS
	total	5200	7.63	≤17.00	PASS
	Ant1	5240	4.57	≤17.00	PASS
	Ant2	5240	5.01	≤17.00	PASS
	total	5240	7.81	≤17.00	PASS
	Ant1	5260	4.39	≤11.00	PASS
	Ant2	5260	3.78	≤11.00	PASS
	total	5260	7.11	≤11.00	PASS
	Ant1	5280	3.69	≤11.00	PASS
	Ant2	5280	3.91	≤11.00	PASS
	total	5280	6.81	≤11.00	PASS
	Ant1	5320	4.73	≤11.00	PASS
	Ant2	5320	6.13	≤11.00	PASS
	total	5320	8.50	≤11.00	PASS
	Ant1	5500	5.40	≤11.00	PASS
	Ant2	5500	6.22	≤11.00	PASS
	total	5500	8.84	≤11.00	PASS
	Ant1	5580	4.43	≤11.00	PASS
	Ant2	5580	4.86	≤11.00	PASS
	total	5580	7.66	≤11.00	PASS
	Ant1	5700	5.61	≤11.00	PASS
	Ant2	5700	4.72	≤11.00	PASS
	total	5700	8.20	≤11.00	PASS
	Ant1	5745	3.57	≤30.00	PASS
	Ant2	5745	1.56	≤30.00	PASS
	total	5745	5.69	≤30.00	PASS
	Ant1	5785	3.27	≤30.00	PASS
	Ant2	5785	0.69	≤30.00	PASS
	total	5785	5.18	≤30.00	PASS
	Ant1	5825	3.83	≤30.00	PASS
	Ant2	5825	1.08	≤30.00	PASS
	total	5825	5.68	≤30.00	PASS
11N20MIMO	Ant1	5180	4.47	≤17.00	PASS
	Ant2	5180	4.58	≤17.00	PASS

	total	5180	7.54	≤17.00	PASS
	Ant1	5200	2.95	≤17.00	PASS
	Ant2	5200	3.76	≤17.00	PASS
	total	5200	6.38	≤17.00	PASS
	Ant1	5240	3.78	≤17.00	PASS
	Ant2	5240	3.09	≤17.00	PASS
	total	5240	6.46	≤17.00	PASS
	Ant1	5260	3.13	≤11.00	PASS
	Ant2	5260	3.50	≤11.00	PASS
	total	5260	6.33	≤11.00	PASS
	Ant1	5280	2.76	≤11.00	PASS
	Ant2	5280	1.88	≤11.00	PASS
	total	5280	5.35	≤11.00	PASS
	Ant1	5320	3.67	≤11.00	PASS
	Ant2	5320	4.48	≤11.00	PASS
	total	5320	7.10	≤11.00	PASS
	Ant1	5500	3.71	≤11.00	PASS
	Ant2	5500	3.69	≤11.00	PASS
	total	5500	6.71	≤11.00	PASS
	Ant1	5580	3.90	≤11.00	PASS
	Ant2	5580	3.31	≤11.00	PASS
	total	5580	6.63	≤11.00	PASS
	Ant1	5700	4.29	≤11.00	PASS
	Ant2	5700	3.04	≤11.00	PASS
	total	5700	6.72	≤11.00	PASS
	Ant1	5745	2.29	≤30.00	PASS
	Ant2	5745	-0.06	≤30.00	PASS
	total	5745	4.28	≤30.00	PASS
	Ant1	5785	2.14	≤30.00	PASS
	Ant2	5785	-1.18	≤30.00	PASS
	total	5785	3.80	≤30.00	PASS
	Ant1	5825	1.82	≤30.00	PASS
	Ant2	5825	0.88	≤30.00	PASS
	total	5825	4.39	≤30.00	PASS
11N40MIMO	Ant1	5190	0.49	≤17.00	PASS
	Ant2	5190	0.33	≤17.00	PASS
	total	5190	3.42	≤17.00	PASS
	Ant1	5230	-0.97	≤17.00	PASS
	Ant2	5230	-0.06	≤17.00	PASS
	total	5230	2.52	≤17.00	PASS
	Ant1	5270	-0.89	≤11.00	PASS
	Ant2	5270	-0.19	≤11.00	PASS