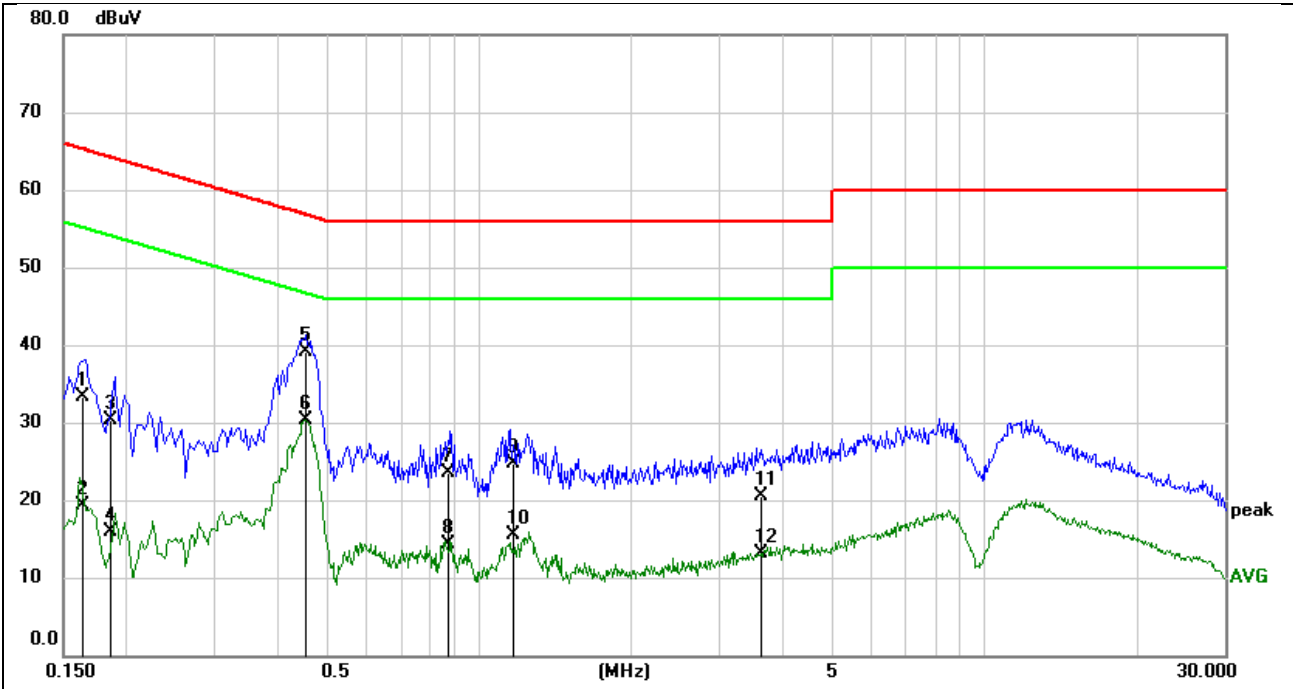




Test Mode:	802.11a	Line:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1637	23.65	9.59	33.24	65.27	-32.03	QP
2	0.1637	9.64	9.59	19.23	55.27	-36.04	AVG
3	0.1852	20.76	9.59	30.35	64.25	-33.90	QP
4	0.1852	6.23	9.59	15.82	54.25	-38.43	AVG
5	0.4505	29.49	9.60	39.09	56.87	-17.78	QP
6	0.4505	20.69	9.60	30.29	46.87	-16.58	AVG
7	0.8715	13.95	9.60	23.55	56.00	-32.45	QP
8	0.8715	4.76	9.60	14.36	46.00	-31.64	AVG
9	1.1627	15.02	9.61	24.63	56.00	-31.37	QP
10	1.1627	5.85	9.61	15.46	46.00	-30.54	AVG
11	3.6082	10.87	9.69	20.56	56.00	-35.44	QP
12	3.6082	3.49	9.69	13.18	46.00	-32.82	AVG

Note:

1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.



## 10. ANTENNA REQUIREMENT

### REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.407(a)

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.

### DESCRIPTION

Pass



## 11. TEST DATA

### 11.1. APPENDIX A: EMISSION BANDWIDTH

#### 11.1.1. Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	19.960	5170.360	5190.320	PASS
	Ant0	5180	19.760	5169.960	5189.720	PASS
	Ant1	5200	20.760	5189.560	5210.320	PASS
	Ant0	5200	19.720	5190.400	5210.120	PASS
	Ant1	5240	19.840	5229.960	5249.800	PASS
	Ant0	5240	20.280	5229.840	5250.120	PASS
	Ant1	5745	20.280	5734.800	5755.080	PASS
	Ant0	5745	20.360	5735.000	5755.360	PASS
	Ant1	5785	20.760	5774.400	5795.160	PASS
	Ant0	5785	20.320	5775.000	5795.320	PASS
	Ant1	5825	20.160	5814.720	5834.880	PASS
	Ant0	5825	20.680	5814.800	5835.480	PASS
11N20MIMO	Ant1	5180	20.360	5169.760	5190.120	PASS
	Ant0	5180	20.320	5169.720	5190.040	PASS
	Ant1	5200	19.880	5189.880	5209.760	PASS
	Ant0	5200	20.320	5189.960	5210.280	PASS
	Ant1	5240	20.520	5229.840	5250.360	PASS
	Ant0	5240	20.480	5229.840	5250.320	PASS
	Ant1	5745	20.440	5734.760	5755.200	PASS
	Ant0	5745	20.400	5735.120	5755.520	PASS
	Ant1	5785	20.640	5775.000	5795.640	PASS
	Ant0	5785	20.720	5774.480	5795.200	PASS
	Ant1	5825	20.520	5815.000	5835.520	PASS
	Ant0	5825	21.080	5814.280	5835.360	PASS
11N40MIMO	Ant1	5190	40.480	5169.520	5210.000	PASS
	Ant0	5190	39.760	5170.000	5209.760	PASS
	Ant1	5230	40.080	5209.920	5250.000	PASS
	Ant0	5230	39.440	5210.560	5250.000	PASS
	Ant1	5755	40.080	5734.680	5774.760	PASS
	Ant0	5755	39.520	5735.240	5774.760	PASS
	Ant1	5795	39.760	5775.240	5815.000	PASS
	Ant0	5795	56.960	5766.120	5823.080	PASS
11AC80MIMO	Ant1	5210	82.720	5168.720	5251.440	PASS
	Ant0	5210	81.760	5168.240	5250.000	PASS
	Ant1	5775	80.960	5735.000	5815.960	PASS
	Ant0	5775	81.280	5734.840	5816.120	PASS
11AX20MIMO	Ant1	5180	20.520	5169.400	5189.920	PASS
	Ant0	5180	21.320	5169.440	5190.760	PASS
	Ant1	5200	20.360	5190.040	5210.400	PASS
	Ant0	5200	20.880	5189.720	5210.600	PASS
	Ant1	5240	20.600	5229.760	5250.360	PASS
	Ant0	5240	20.480	5230.040	5250.520	PASS
	Ant1	5745	20.760	5734.800	5755.560	PASS
	Ant0	5745	20.280	5734.920	5755.200	PASS
	Ant1	5785	20.920	5774.600	5795.520	PASS
	Ant0	5785	20.400	5775.240	5795.640	PASS
	Ant1	5825	19.840	5815.240	5835.080	PASS
	Ant0	5825	20.640	5814.920	5835.560	PASS
11AX40MIMO	Ant1	5190	39.840	5169.920	5209.760	PASS
	Ant0	5190	39.200	5170.560	5209.760	PASS
	Ant1	5230	40.480	5209.200	5249.680	PASS
	Ant0	5230	39.840	5210.560	5250.400	PASS
	Ant1	5755	39.680	5735.240	5774.920	PASS
	Ant0	5755	46.240	5728.440	5774.680	PASS
	Ant1	5795	39.440	5775.480	5814.920	PASS

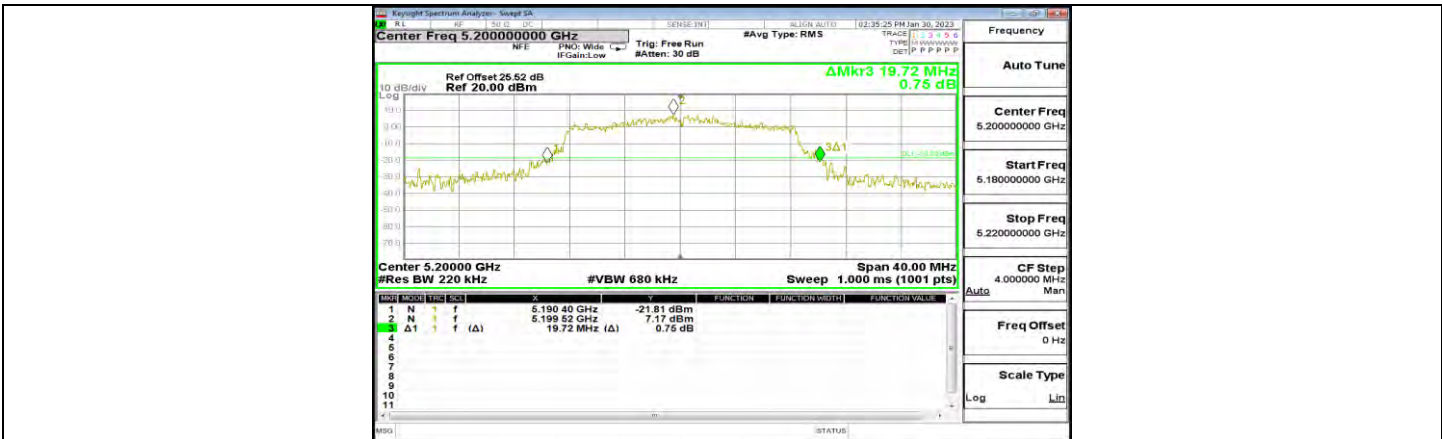


11AX80MIMO	Ant0	5795	39.600	5775.640	5815.240	PASS
	Ant1	5210	80.640	5169.680	5250.320	PASS
	Ant0	5210	80.640	5170.000	5250.640	PASS
	Ant1	5775	80.160	5735.320	5815.480	PASS
	Ant0	5775	81.280	5734.040	5815.320	PASS

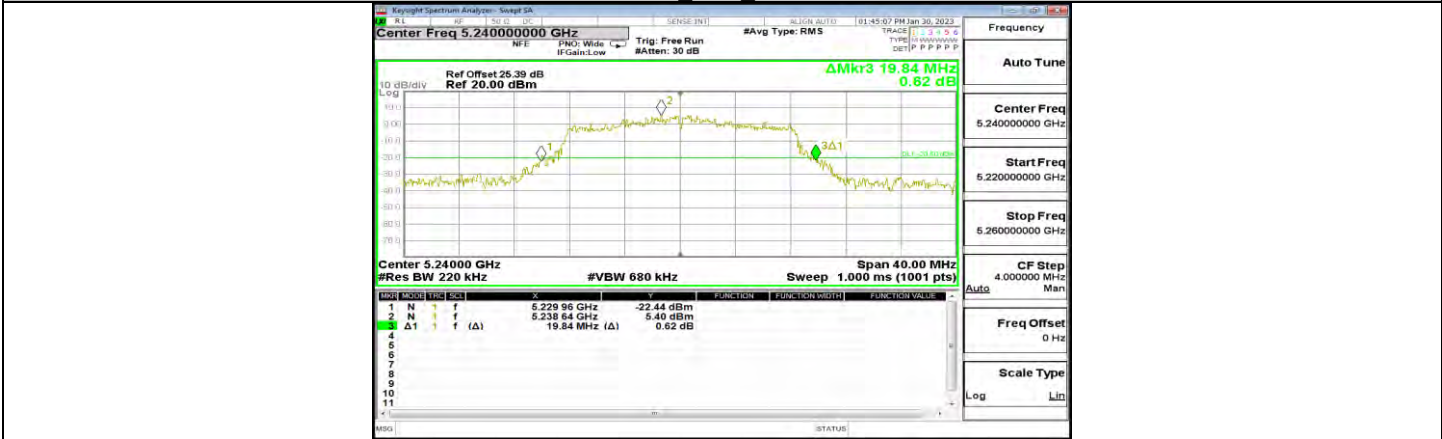


### 11.1.2. Test Graphs





11A Ant0 5200



11A Ant1 5240



11A Ant0 5240



11A Ant1 5745



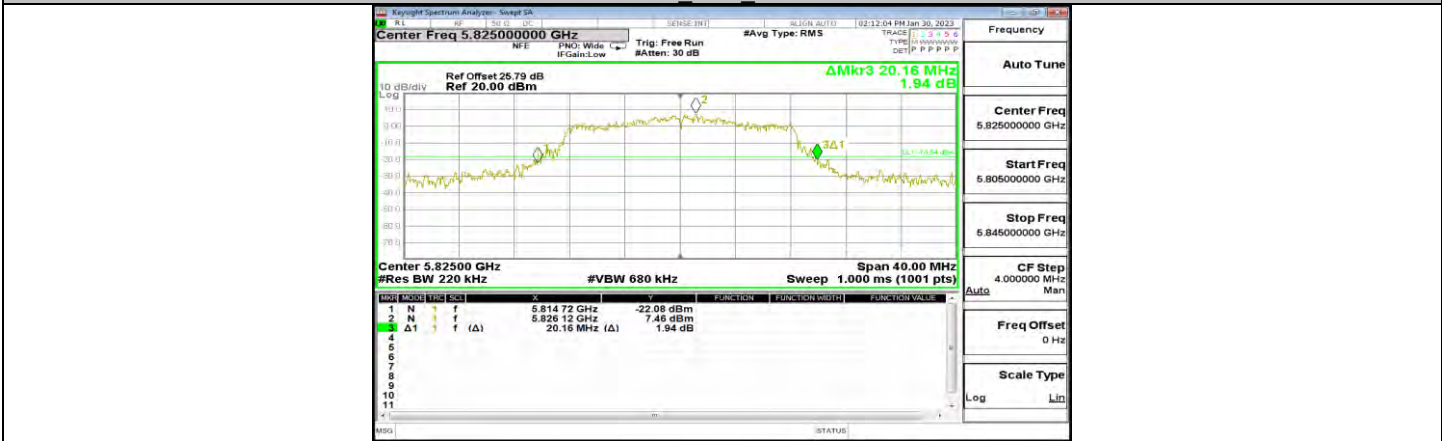
11A Ant0 5745



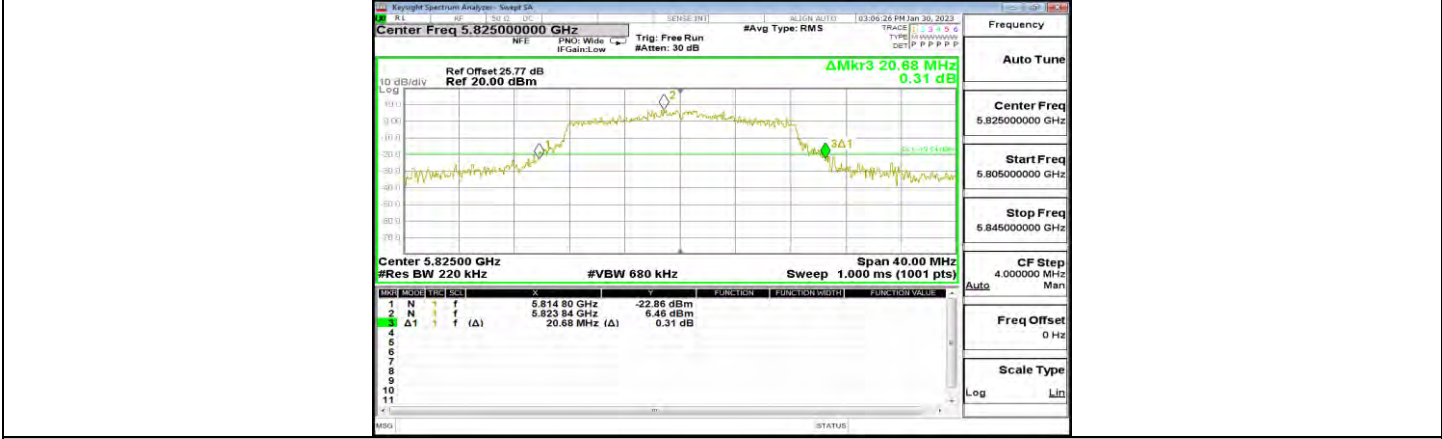
11A Ant1 5785



11A Ant0 5785



11A Ant1 5825



11A Ant0 5825





11N20MIMO Ant1 5180



11N20MIMO Ant0 5180



11N20MIMO Ant1 5200



11N20MIMO Ant0 5200



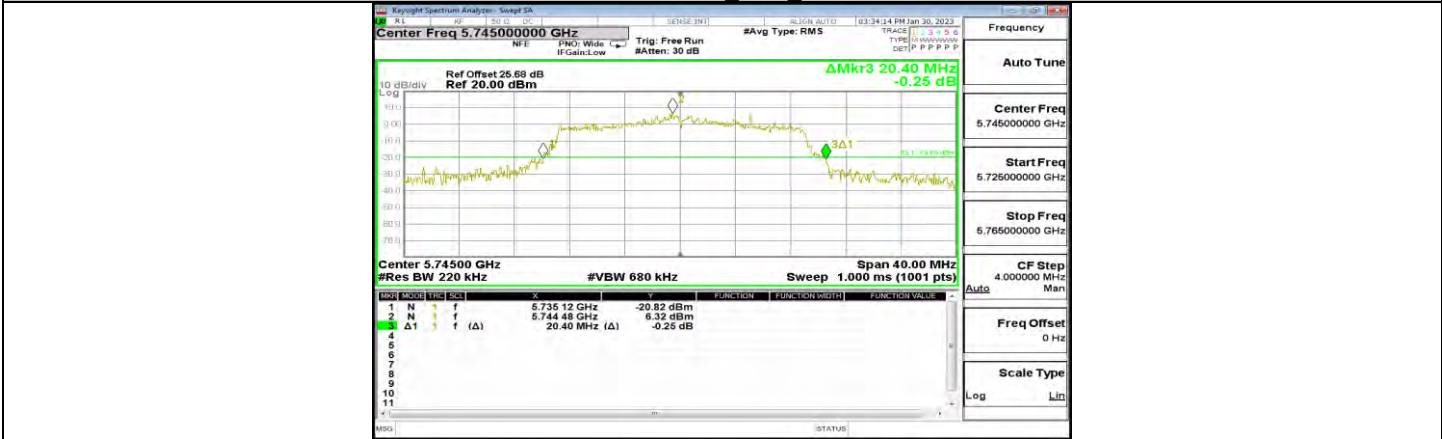
11N20MIMO Ant1 5240



11N20MIMO Ant0 5240



11N20MIMO Ant1 5745



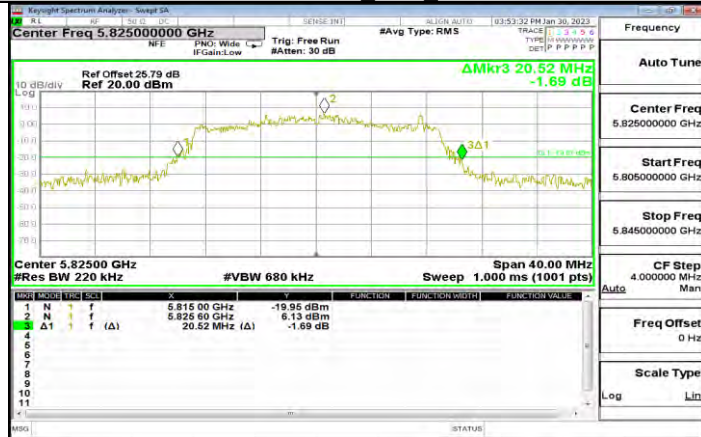
11N20MIMO Ant0 5745



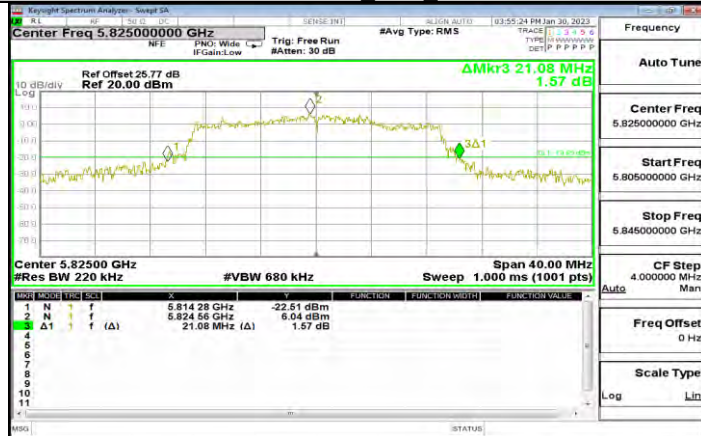
11N20MIMO Ant1 5785



11N20MIMO Ant0 5785



11N20MIMO Ant1 5825



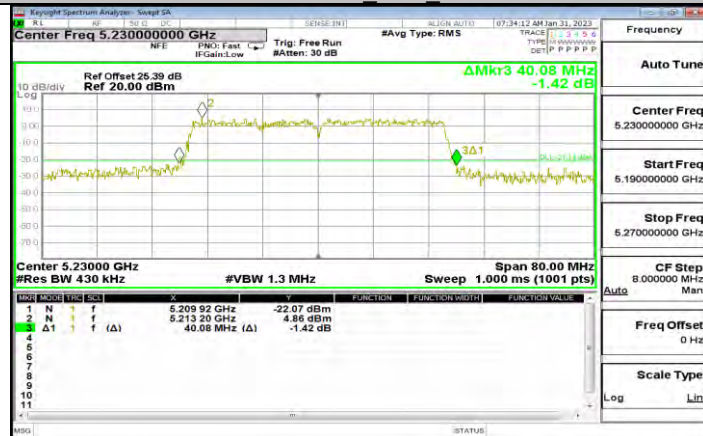
11N20MIMO Ant0 5825



11N40MIMO Ant1 5190



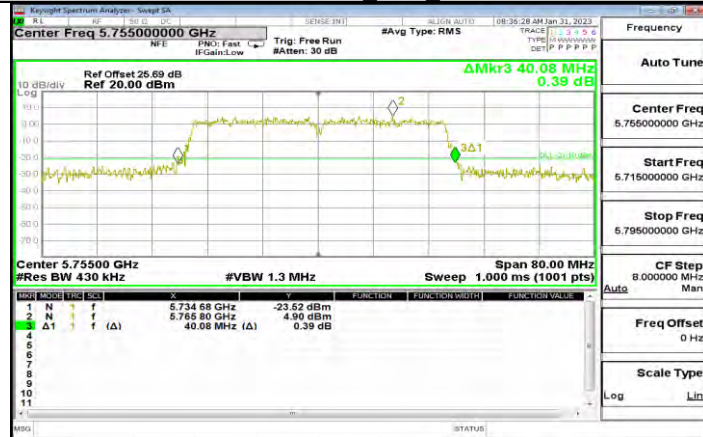
11N40MIMO Ant0 5190



11N40MIMO Ant1 5230



11N40MIMO Ant0 5230



11N40MIMO Ant1 5755



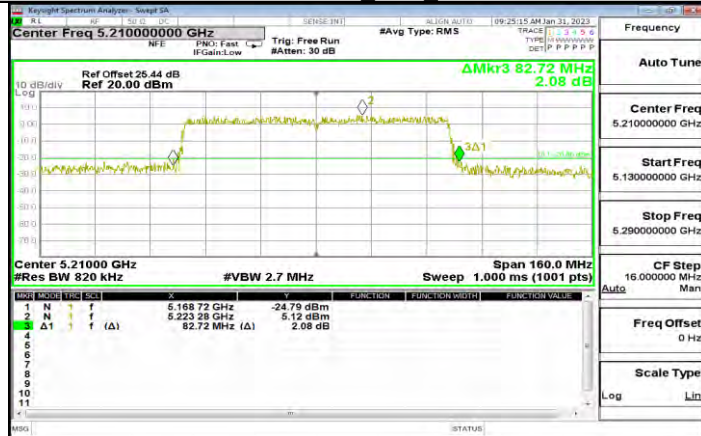
11N40MIMO Ant0 5755



11N40MIMO Ant1 5795



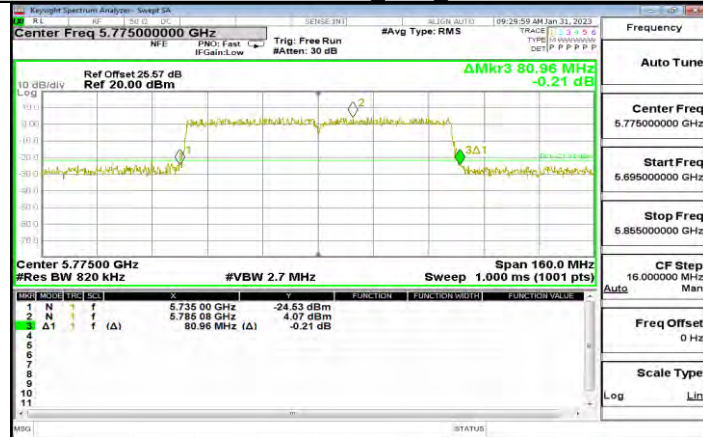
11N40MIMO Ant0 5795



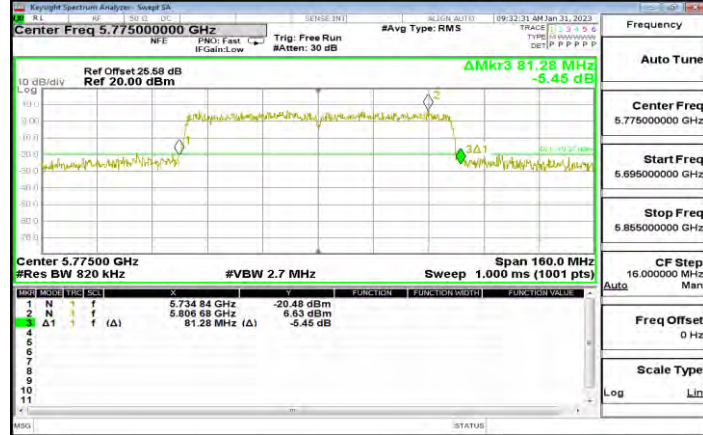
11AC80MIMO Ant1 5210



11AC80MIMO Ant0 5210



11AC80MIMO Ant1 5775



11AC80MIMO Ant0 5775





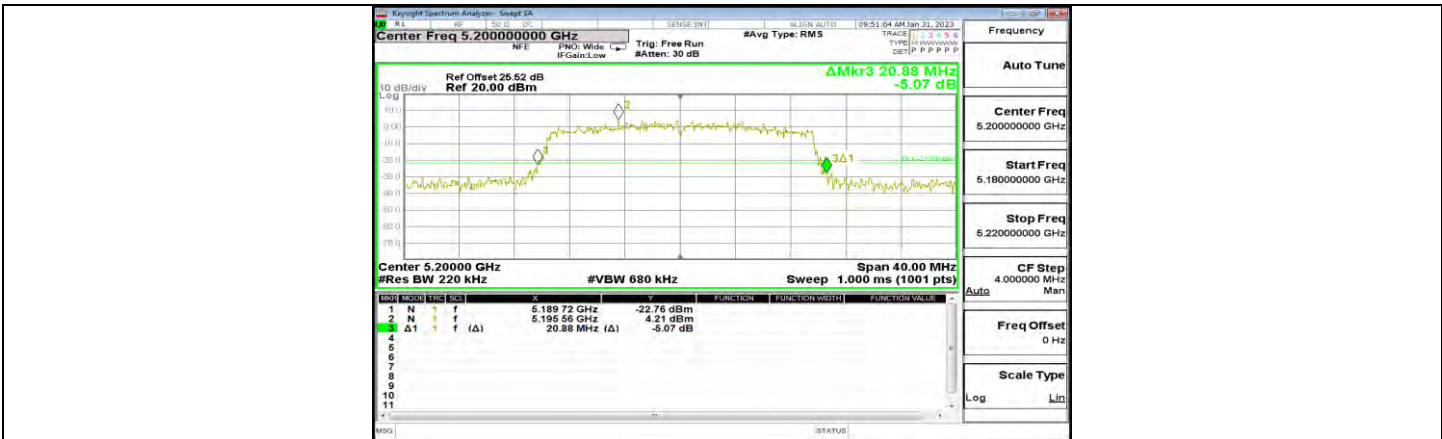
11AX20MIMO Ant1 5180



11AX20MIMO Ant0 5180



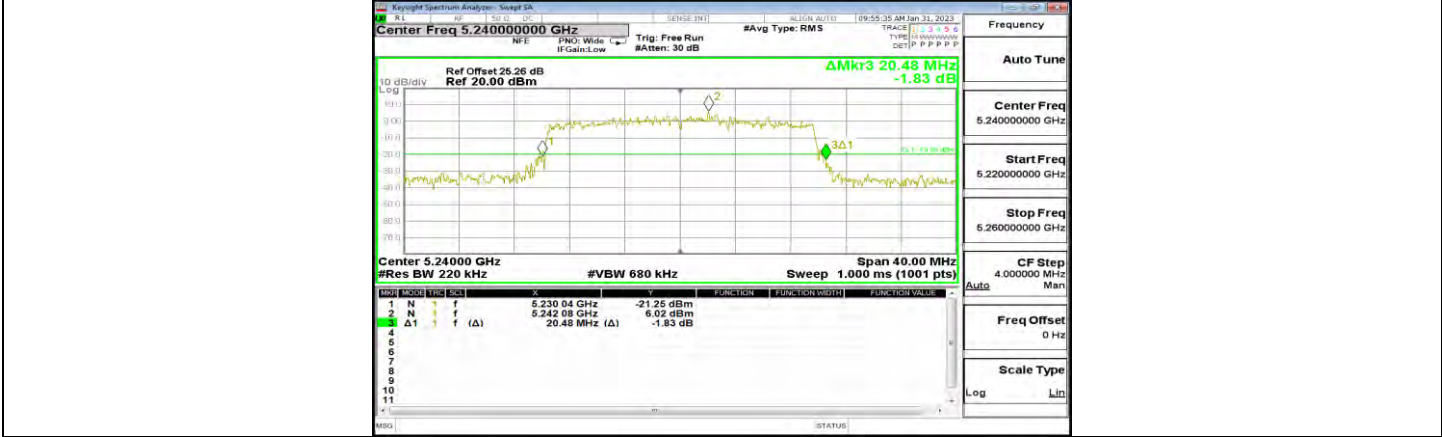
11AX20MIMO Ant1 5200



11AX20MIMO Ant0 5200



11AX20MIMO Ant1 5240



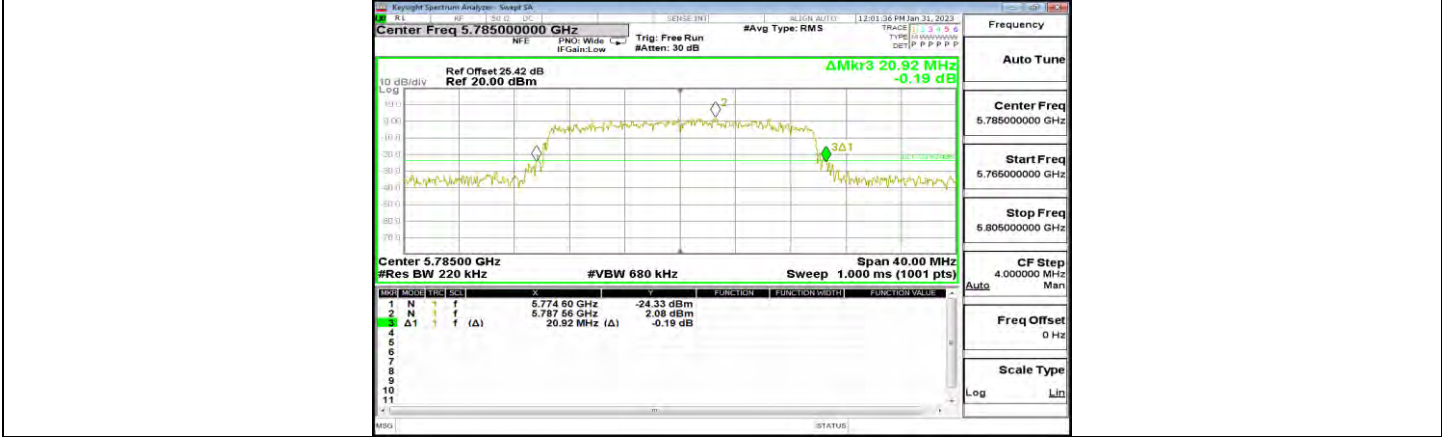
11AX20MIMO Ant0 5240



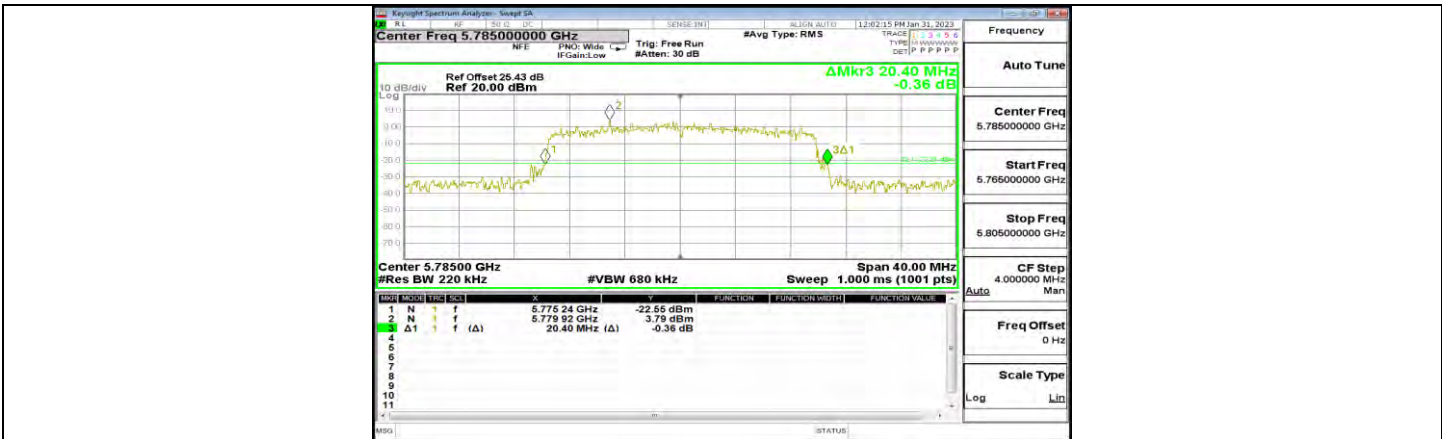
11AX20MIMO Ant1 5745



11AX20MIMO Ant0 5745



11AX20MIMO Ant1 5785



11AX20MIMO Ant0 5785



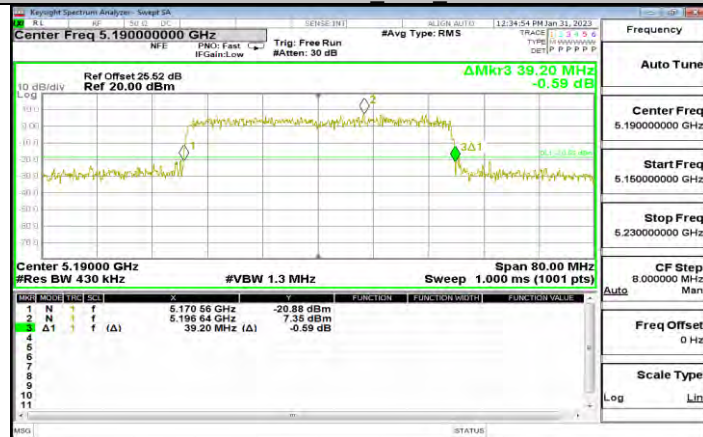
11AX20MIMO Ant1 5825



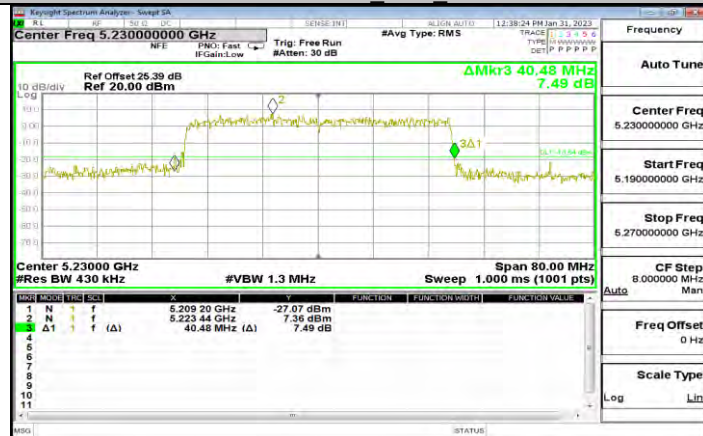
11AX20MIMO Ant0 5825



11AX40MIMO Ant1 5190



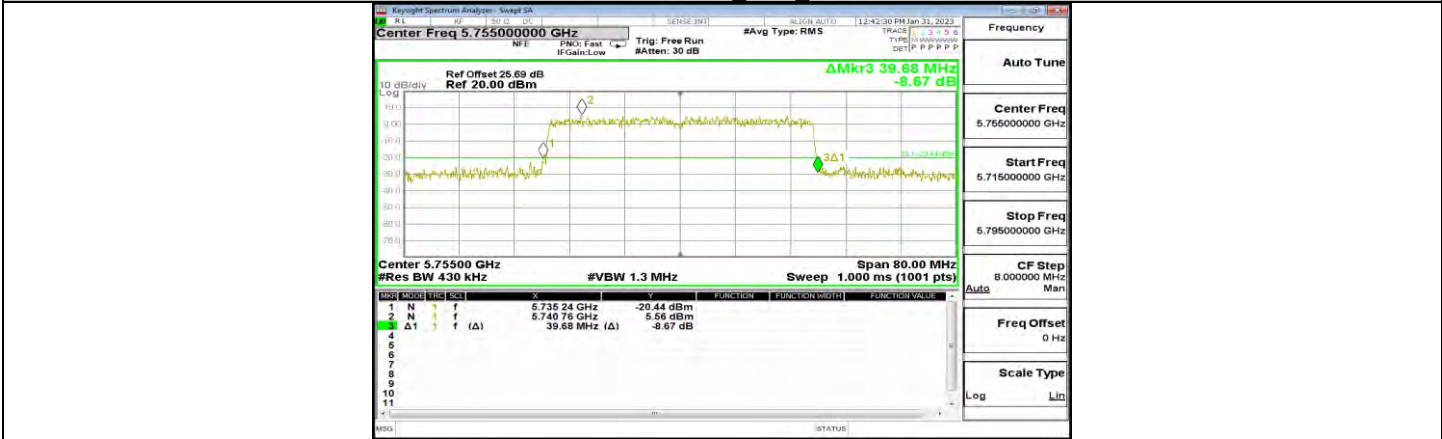
11AX40MIMO Ant0 5190



11AX40MIMO Ant1 5230



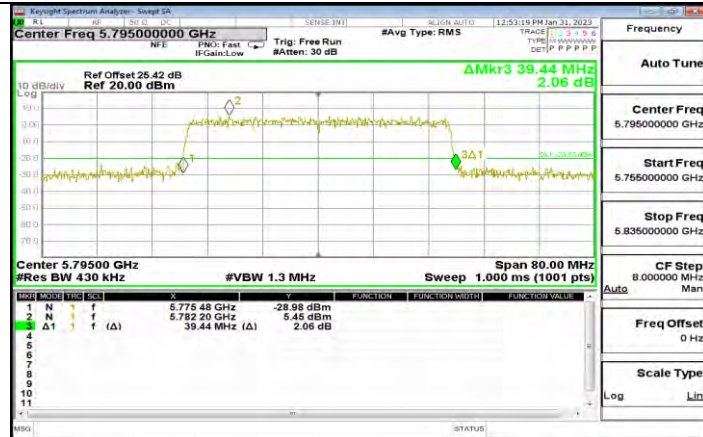
11AX40MIMO Ant0 5230



11AX40MIMO Ant1 5755



11AX40MIMO Ant0 5755



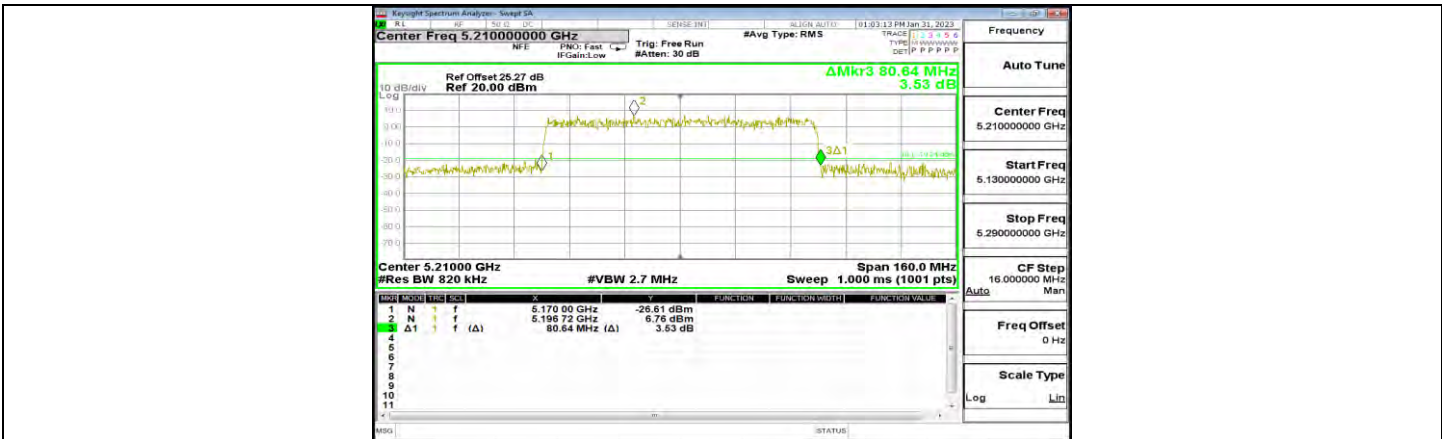
11AX40MIMO Ant1 5795



11AX40MIMO Ant0 5795



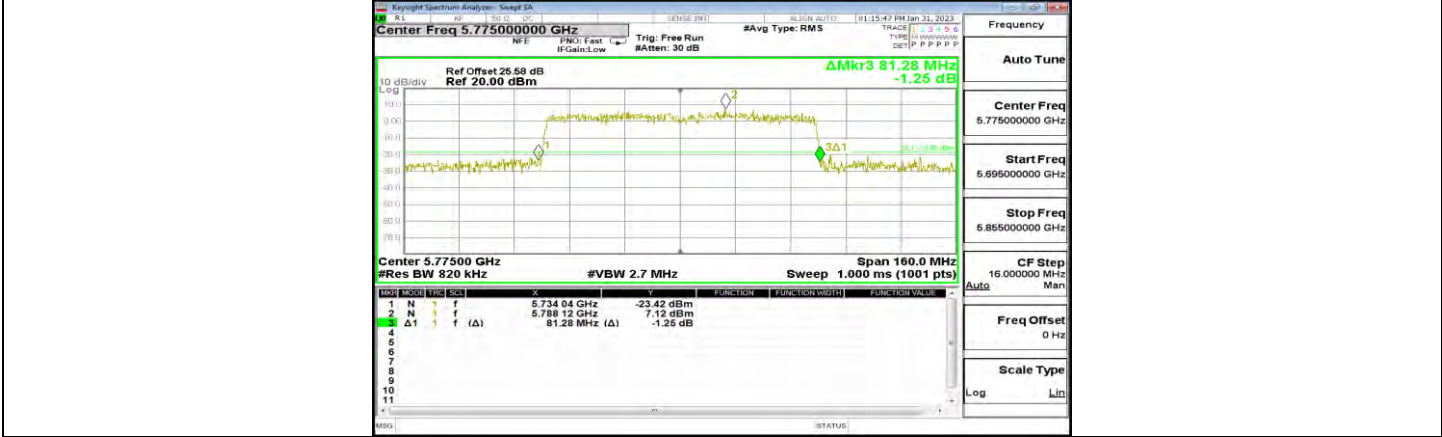
11AX80MIMO Ant1 5210



11AX80MIMO Ant0 5210



11AX80MIMO Ant1 5775



11AX80MIMO Ant0 5775



**11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH****11.2.1. Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	16.736	5171.7252	5188.4272	PASS
	Ant0	5180	16.678	5171.7797	5188.3767	PASS
	Ant1	5200	16.779	5191.6792	5208.4022	PASS
	Ant0	5200	16.693	5191.8164	5208.4264	PASS
	Ant1	5240	16.680	5231.7427	5248.3657	PASS
	Ant0	5240	16.623	5231.8254	5248.3944	PASS
	Ant1	5745	16.874	5736.7897	5753.5487	PASS
	Ant0	5745	16.712	5736.7955	5753.4265	PASS
	Ant1	5785	16.649	5776.7811	5793.3531	PASS
	Ant0	5785	16.646	5776.7944	5793.4294	PASS
	Ant1	5825	16.689	5816.7210	5833.2990	PASS
	Ant0	5825	16.742	5816.6915	5833.4175	PASS
11N20MIMO	Ant1	5180	17.711	5171.1722	5188.8962	PASS
	Ant0	5180	17.723	5171.1757	5188.8737	PASS
	Ant1	5200	17.794	5191.1857	5208.9817	PASS
	Ant0	5200	17.753	5191.2168	5208.9568	PASS
	Ant1	5240	17.838	5231.2658	5249.0528	PASS
	Ant0	5240	17.667	5231.2240	5248.8880	PASS
	Ant1	5745	17.808	5736.2132	5753.9312	PASS
	Ant0	5745	17.695	5736.2359	5753.8629	PASS
	Ant1	5785	17.698	5776.2187	5793.9327	PASS
	Ant0	5785	17.784	5776.1915	5793.9505	PASS
	Ant1	5825	17.765	5816.2358	5833.9278	PASS
	Ant0	5825	17.772	5816.2079	5833.9199	PASS
11N40MIMO	Ant1	5190	36.664	5171.6792	5208.3572	PASS
	Ant0	5190	36.560	5171.8325	5208.3595	PASS
	Ant1	5230	36.473	5211.9285	5248.2835	PASS
	Ant0	5230	36.426	5211.8609	5248.3479	PASS
	Ant1	5755	36.596	5736.8733	5773.4333	PASS
	Ant0	5755	36.765	5736.7403	5773.4353	PASS
	Ant1	5795	36.357	5776.9881	5813.3151	PASS
	Ant0	5795	36.556	5776.9012	5813.4392	PASS
11AC80MIMO	Ant1	5210	76.246	5172.1743	5248.3643	PASS
	Ant0	5210	76.533	5172.0899	5248.6849	PASS
	Ant1	5775	76.377	5737.1185	5813.4615	PASS
	Ant0	5775	76.225	5737.0388	5813.2278	PASS
11AX20MIMO	Ant1	5180	18.950	5170.6308	5189.5608	PASS
	Ant0	5180	18.884	5170.6682	5189.5792	PASS
	Ant1	5200	18.884	5190.6678	5209.5188	PASS
	Ant0	5200	18.897	5190.6288	5209.5408	PASS
	Ant1	5240	18.943	5230.5967	5249.5497	PASS
	Ant0	5240	18.904	5230.6495	5249.4985	PASS
	Ant1	5745	19.019	5735.6081	5754.6231	PASS
	Ant0	5745	19.088	5735.5483	5754.6173	PASS
	Ant1	5785	18.901	5775.8017	5794.5237	PASS
	Ant0	5785	18.863	5775.6684	5794.5324	PASS
	Ant1	5825	19.002	5815.5677	5834.5617	PASS
	Ant0	5825	18.940	5815.6731	5834.5201	PASS
11AX40MIMO	Ant1	5190	37.704	5171.2528	5209.0148	PASS
	Ant0	5190	37.667	5171.2982	5208.9742	PASS
	Ant1	5230	37.675	5211.2926	5248.9586	PASS
	Ant0	5230	37.770	5211.2425	5248.9805	PASS
	Ant1	5755	37.723	5736.2808	5773.9858	PASS
	Ant0	5755	37.719	5736.2477	5774.0217	PASS
	Ant1	5795	37.634	5776.2906	5813.9716	PASS

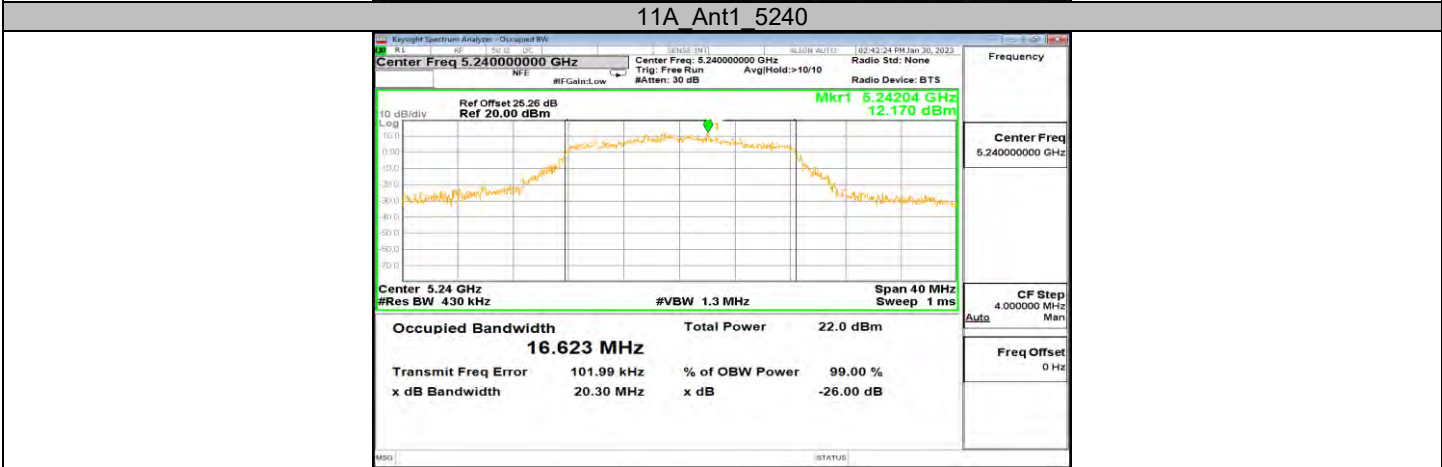
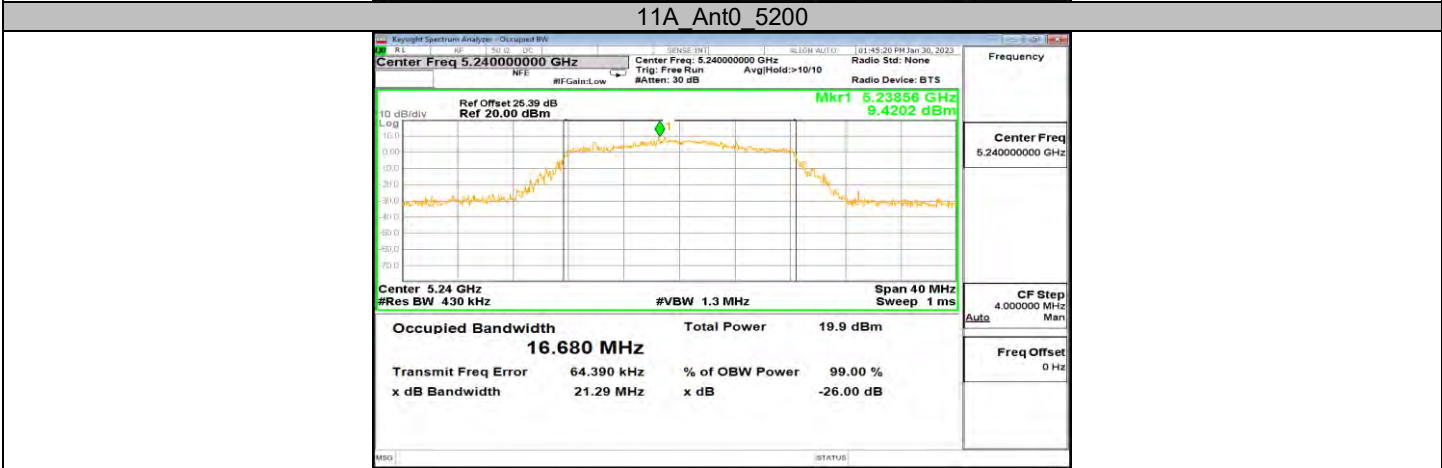
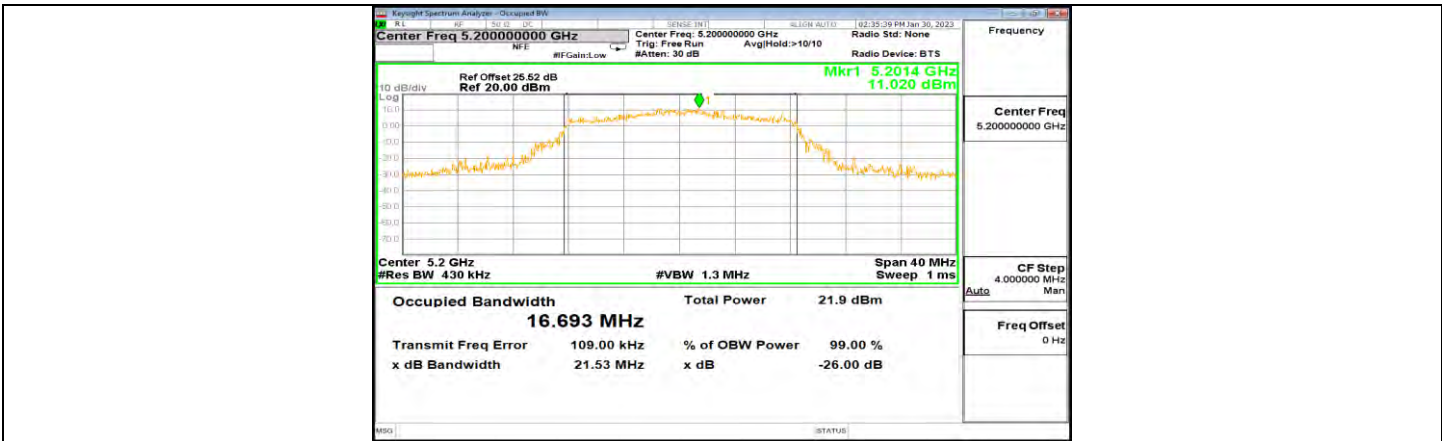


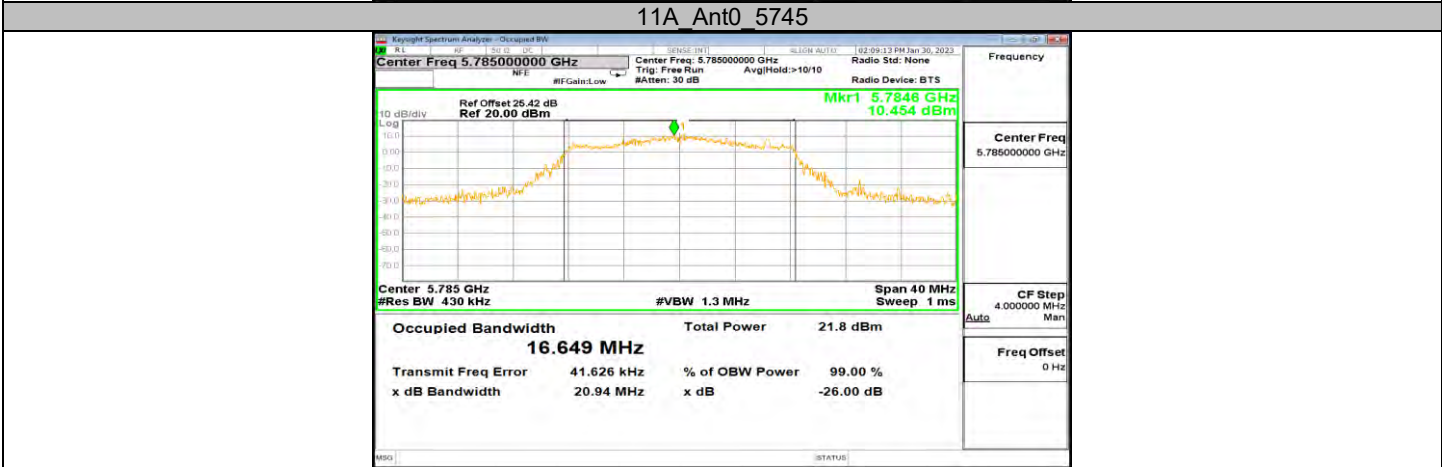
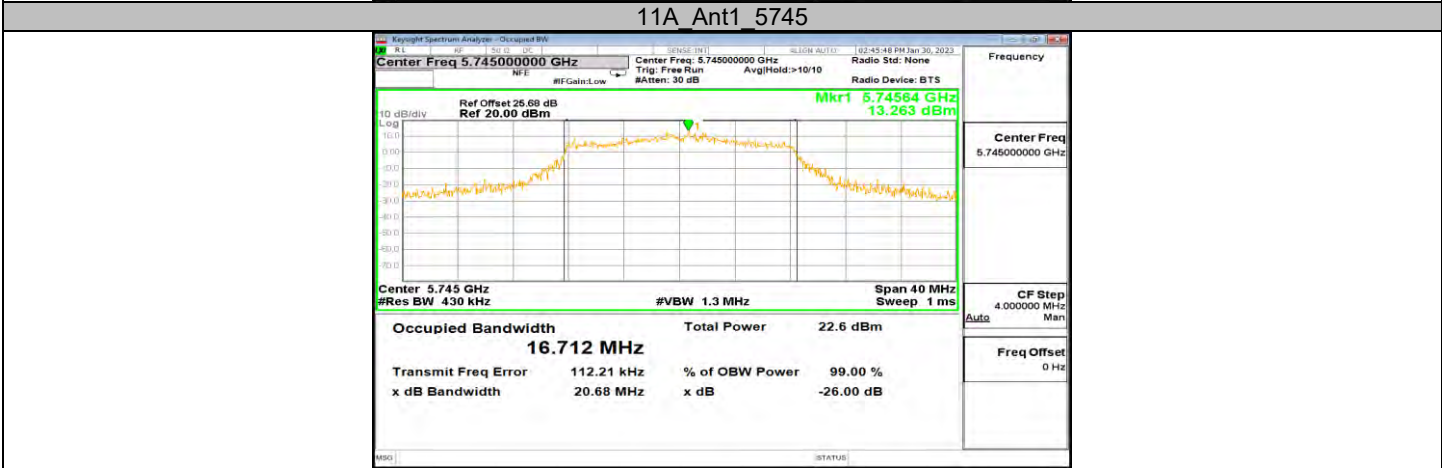
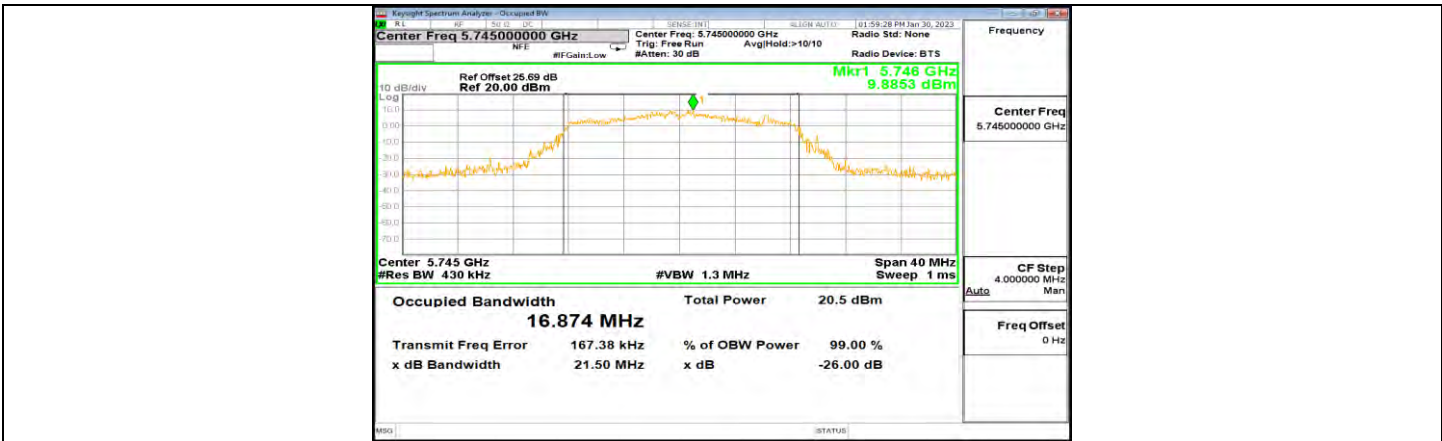
	Ant0	5795	37.698	5776.2848	5813.9968	PASS
	Ant1	5210	77.515	5171.4655	5249.0555	PASS
11AX80MIMO	Ant0	5210	77.760	5171.3701	5249.0401	PASS
	Ant1	5775	77.570	5736.4844	5814.0134	PASS
	Ant0	5775	77.458	5736.4469	5813.4849	PASS

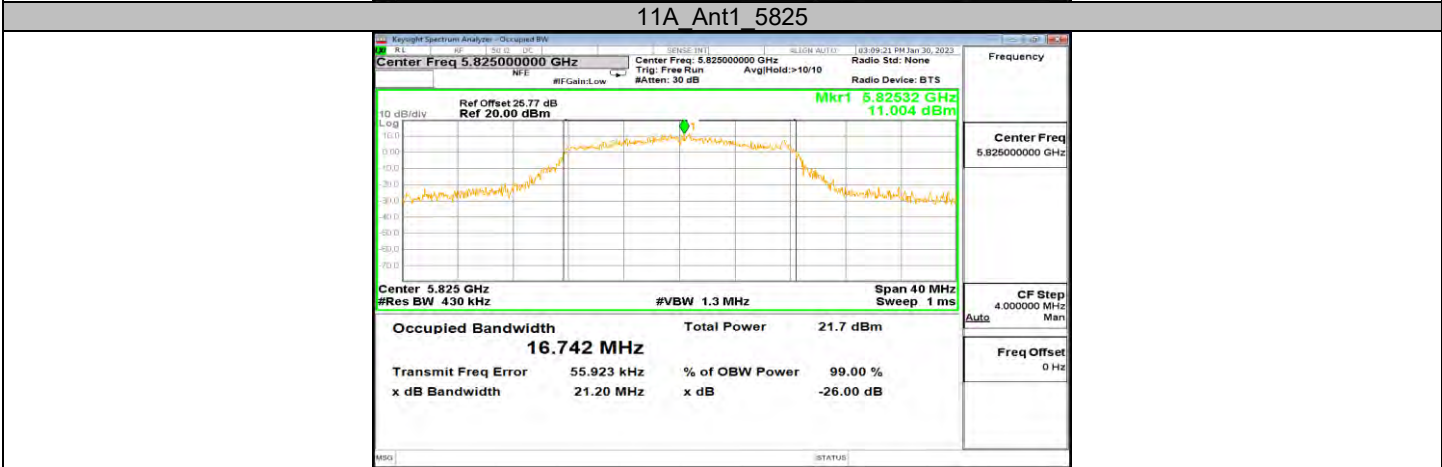
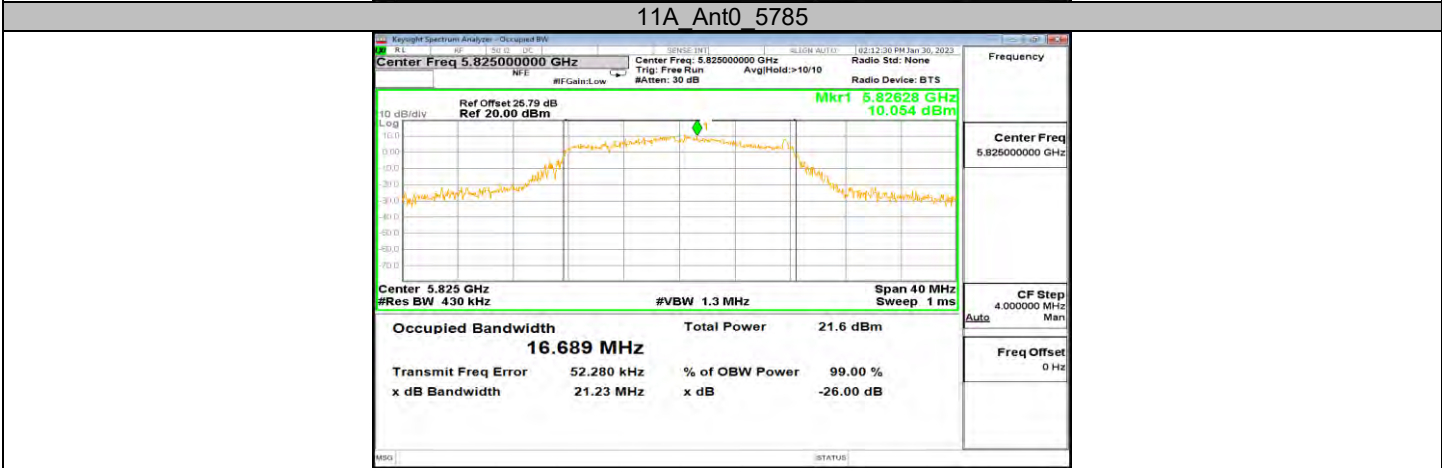
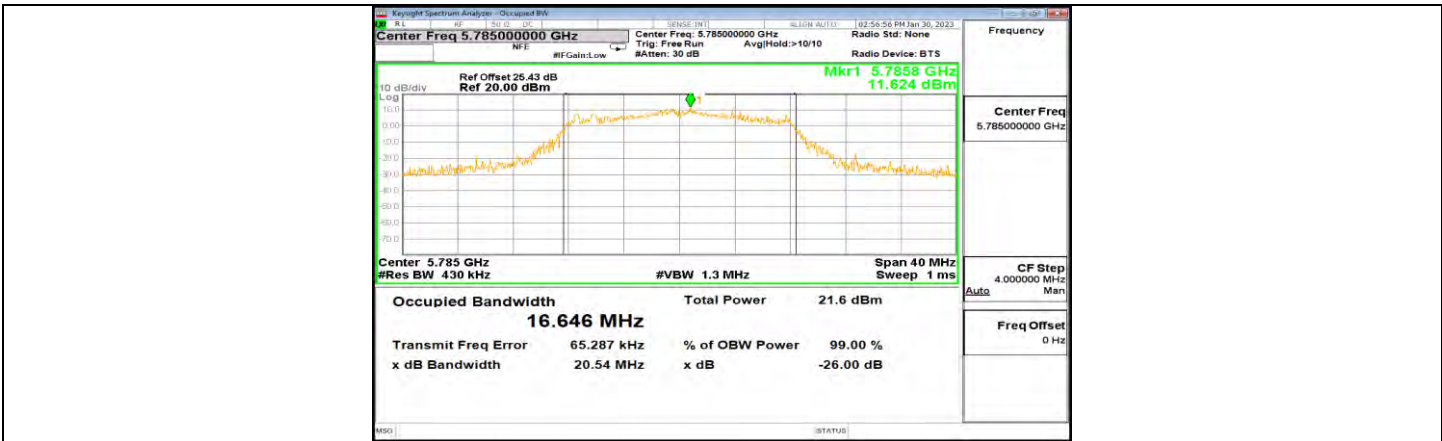


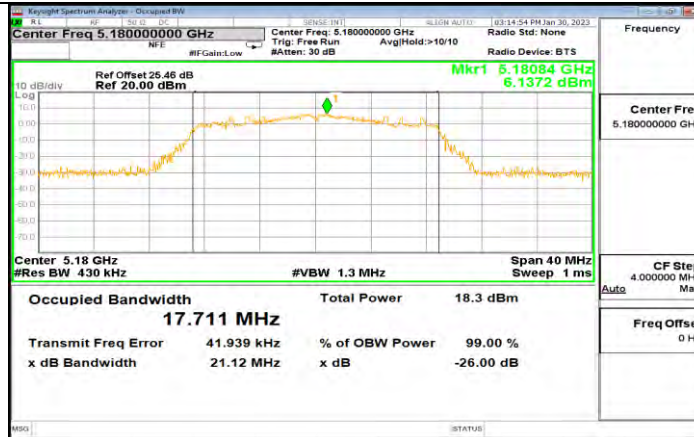
### 11.2.2. Test Graphs



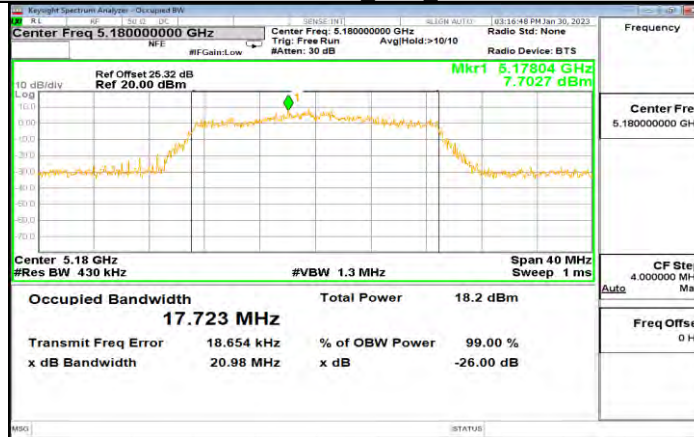




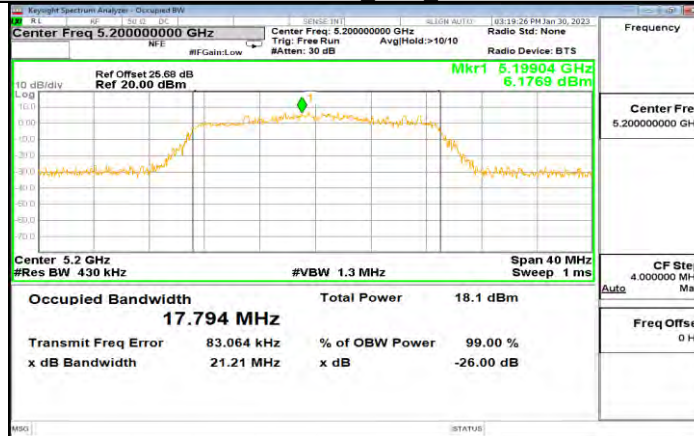




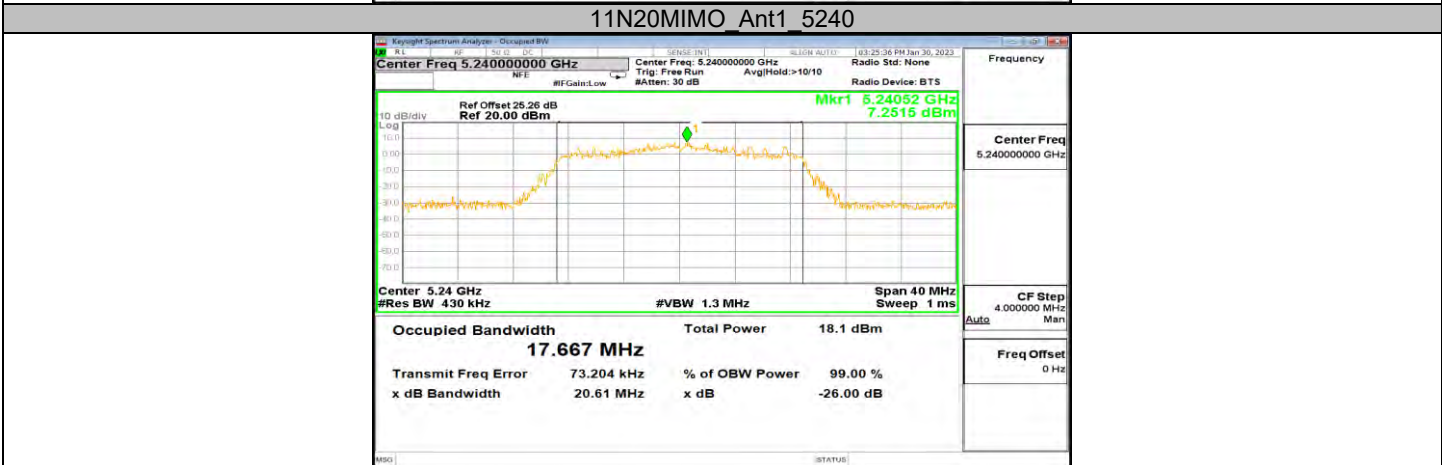
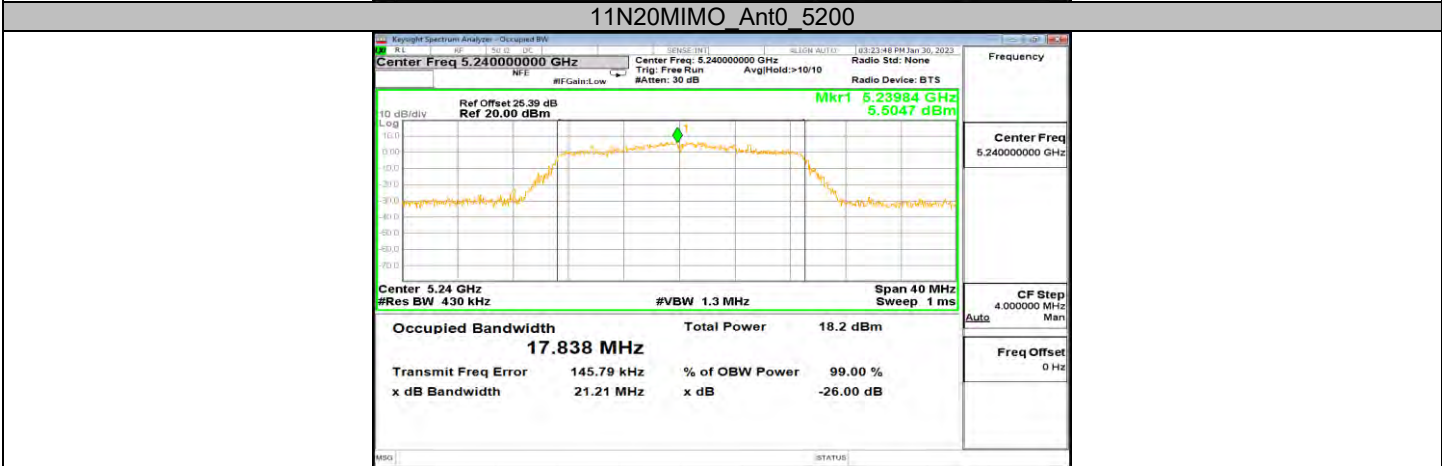
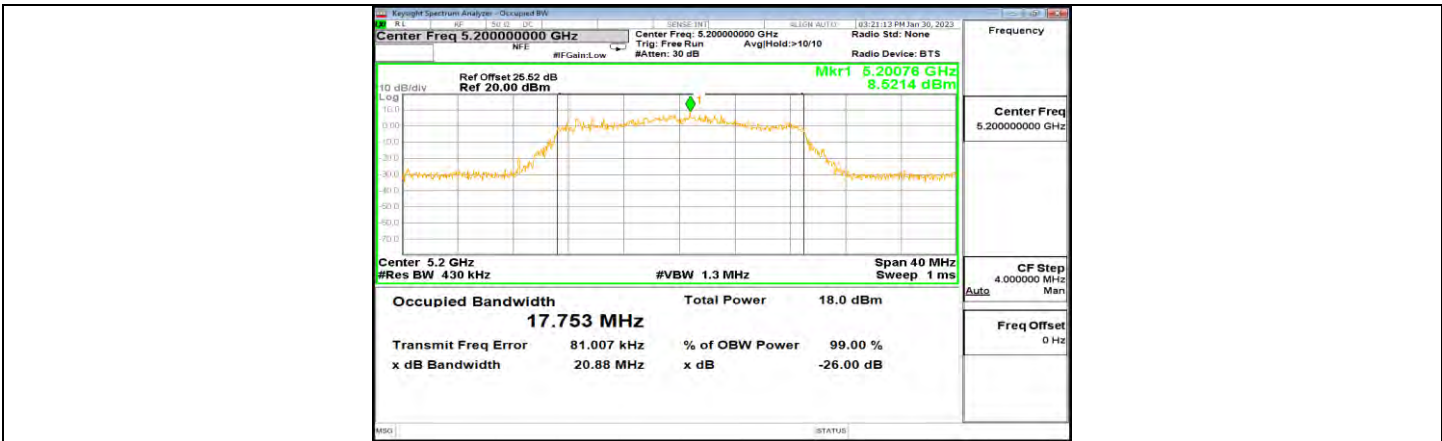
11N20MIMO Ant1 5180



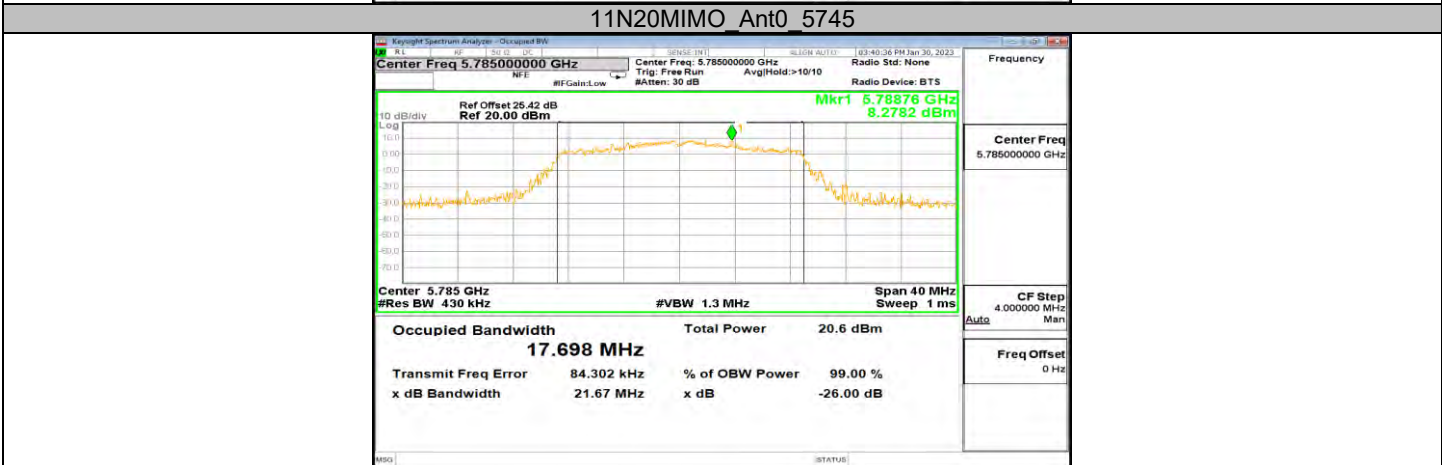
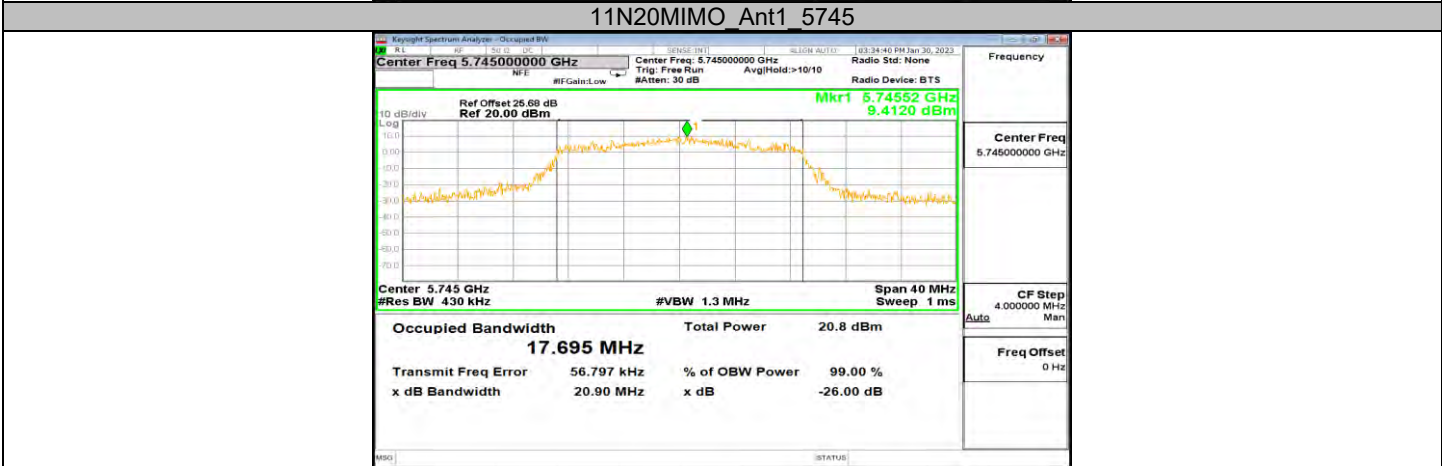
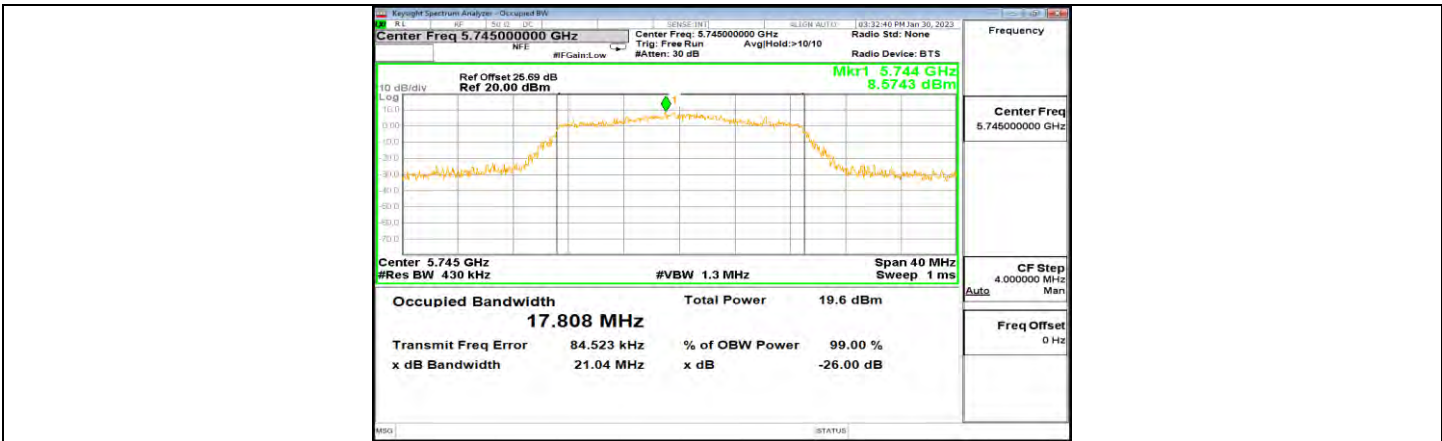
11N20MIMO Ant0 5180

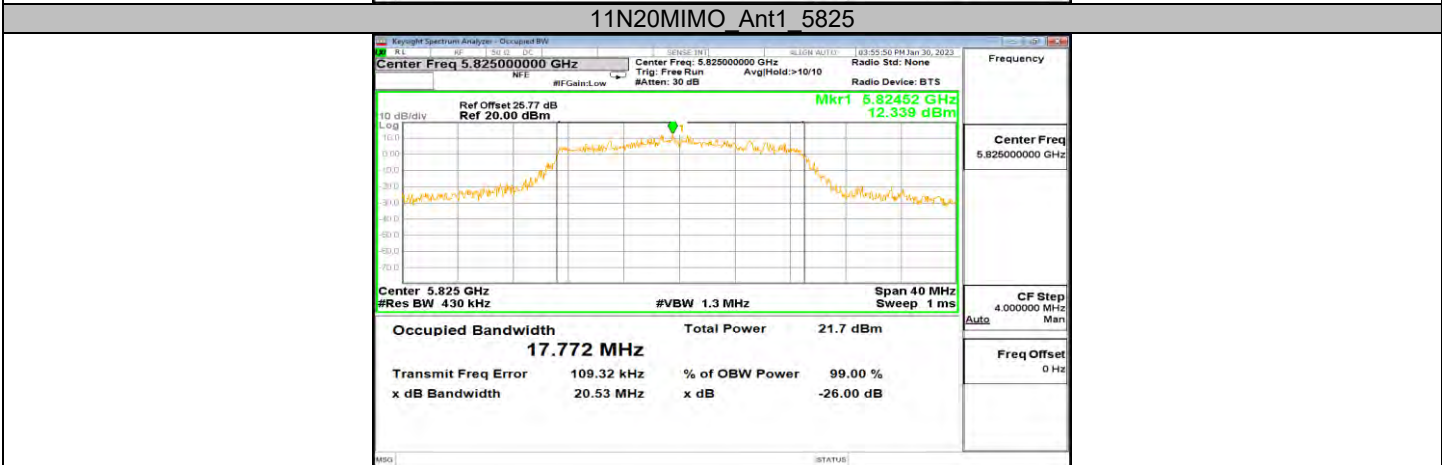
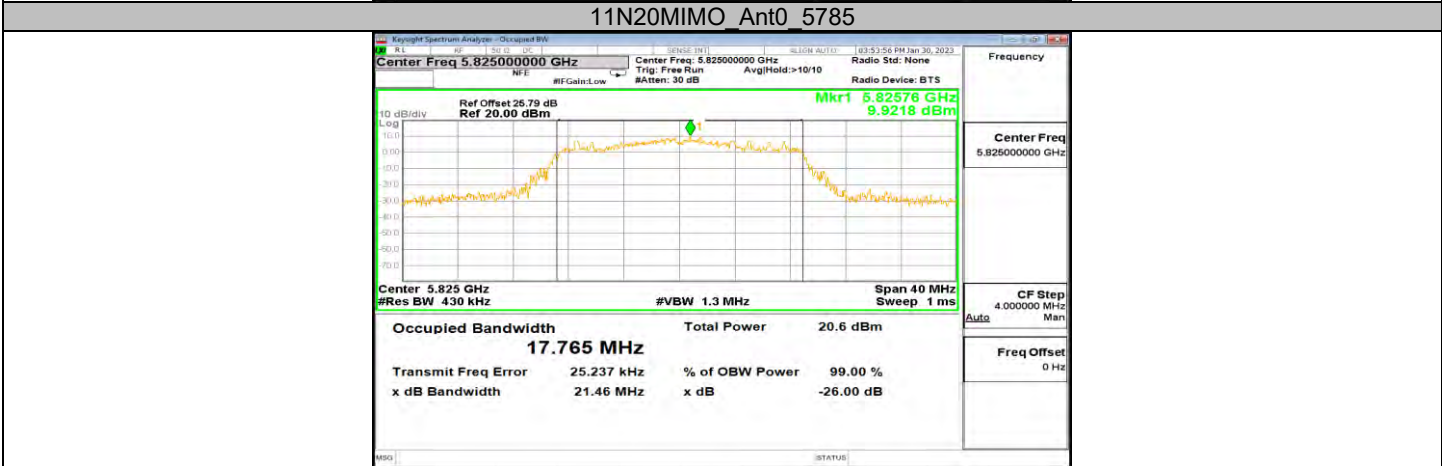
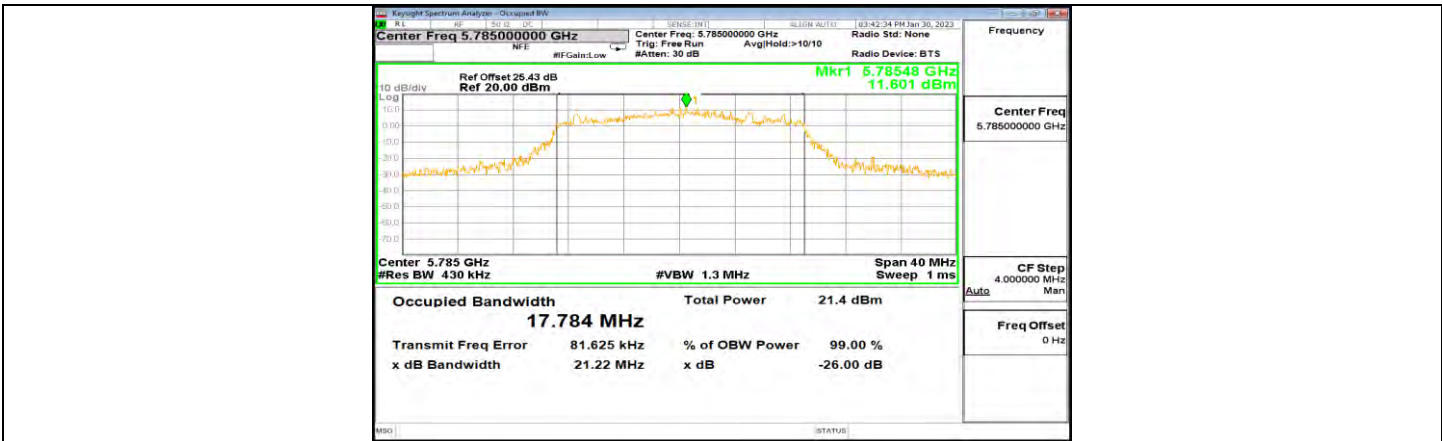


11N20MIMO Ant1 5200

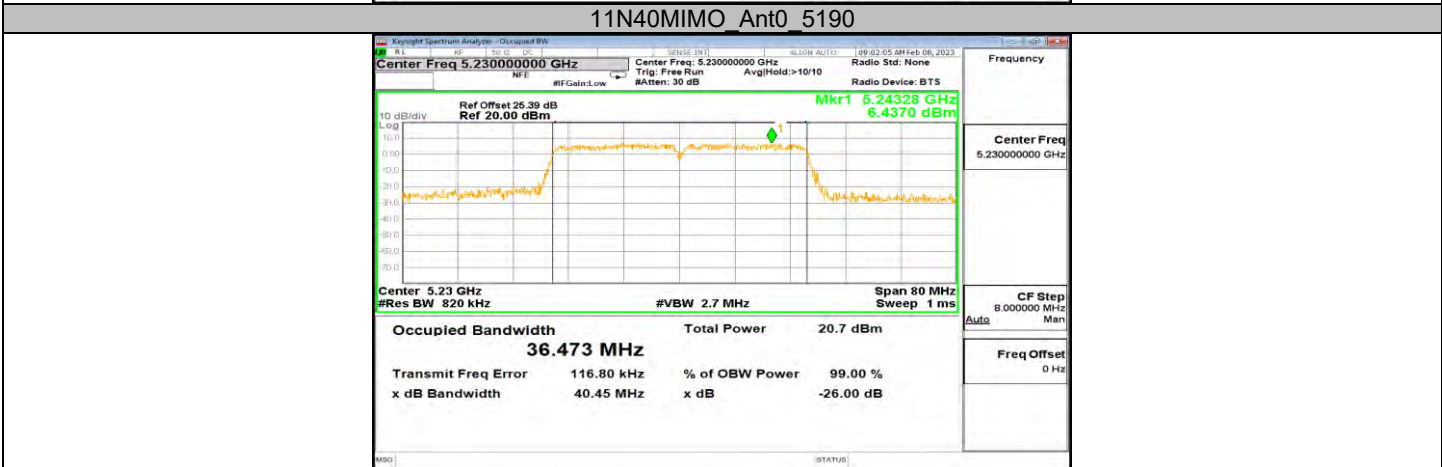
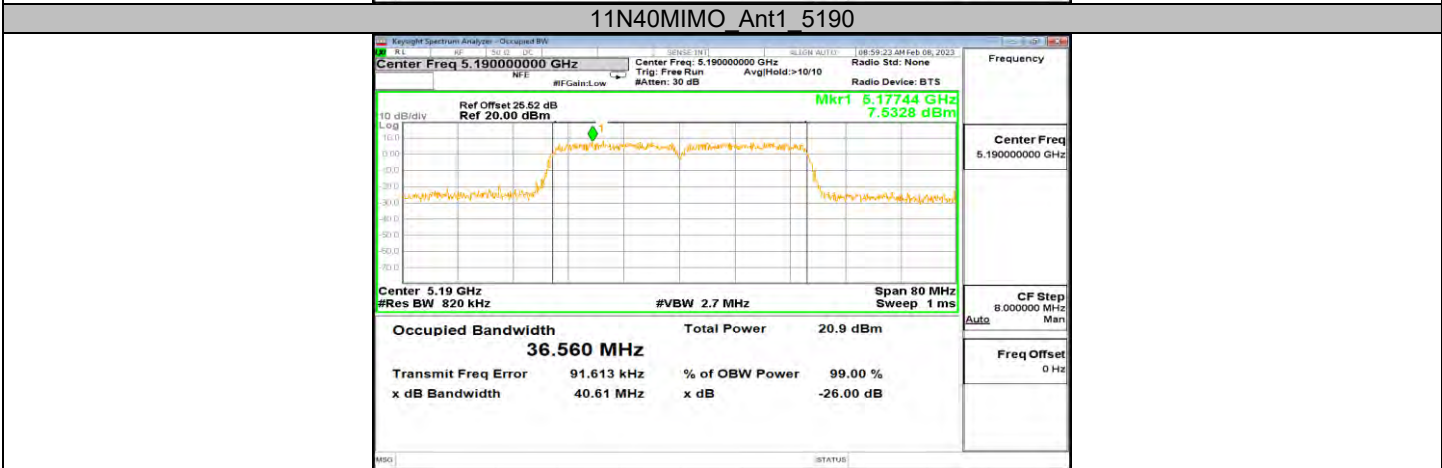
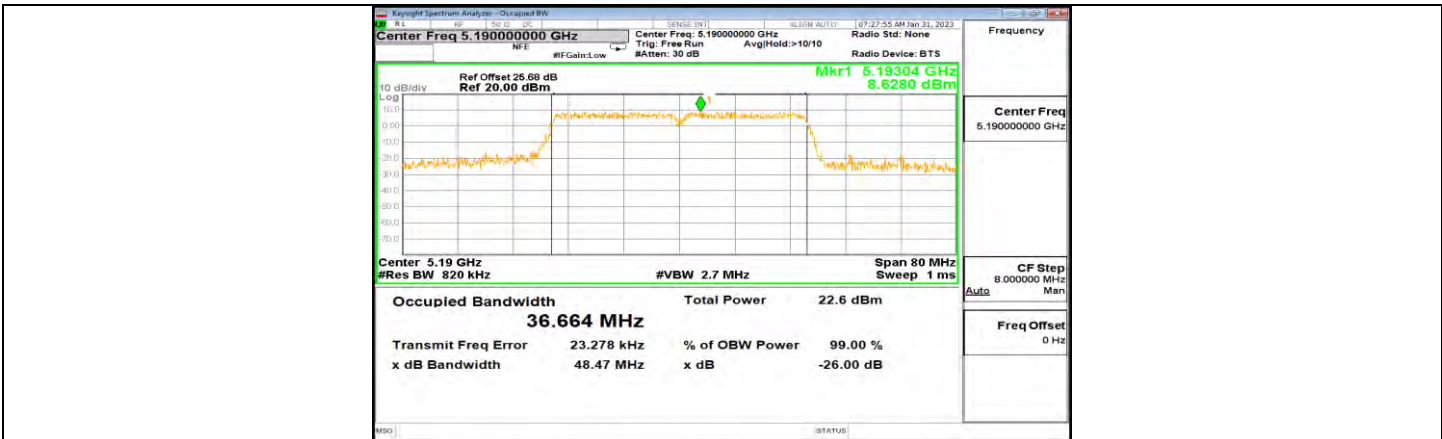




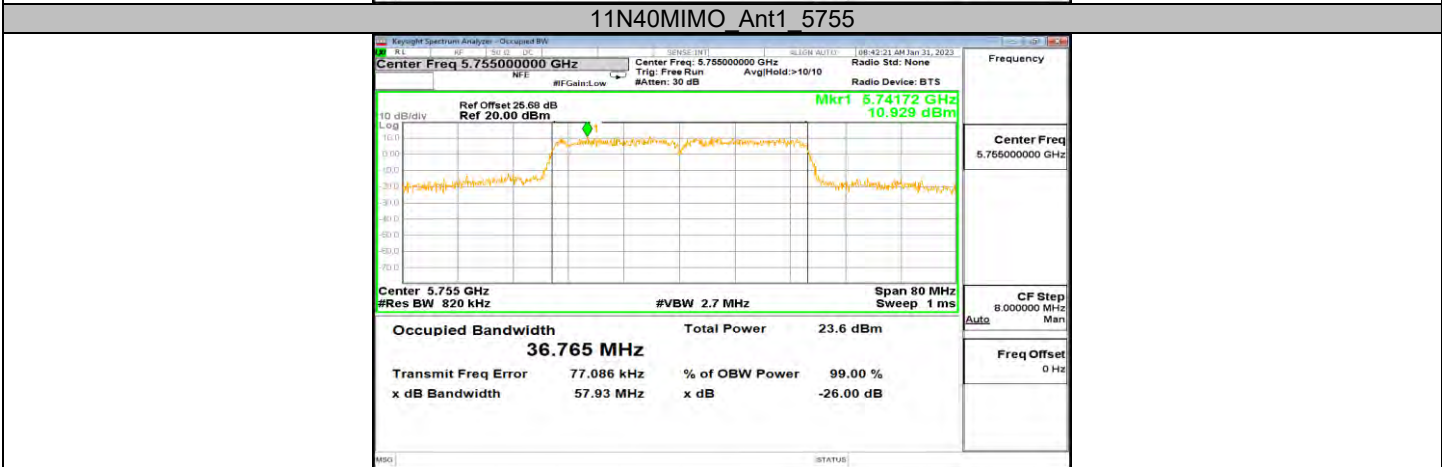
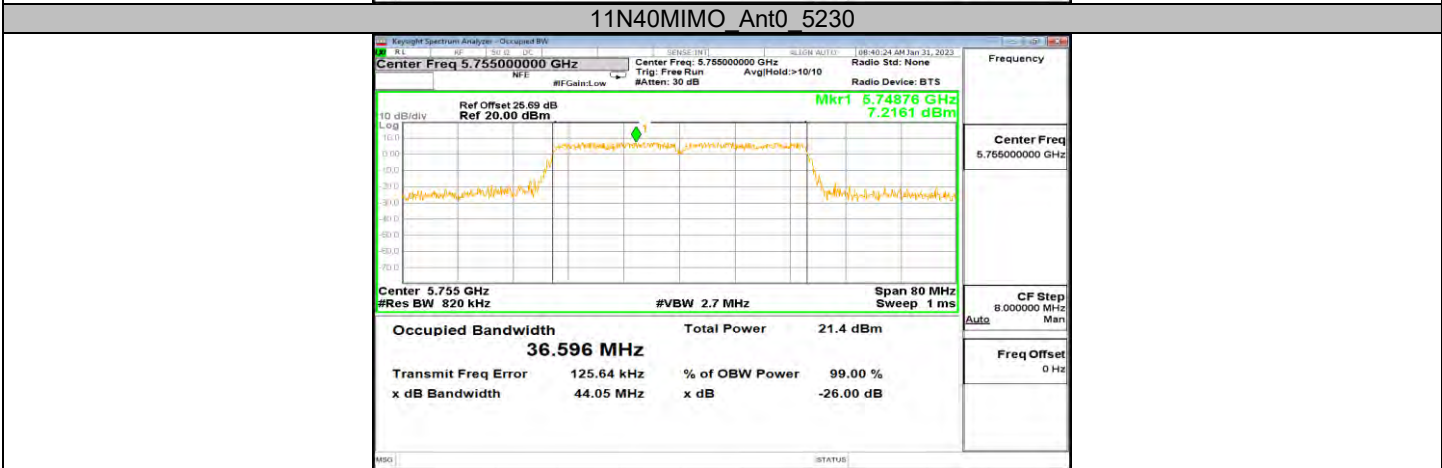
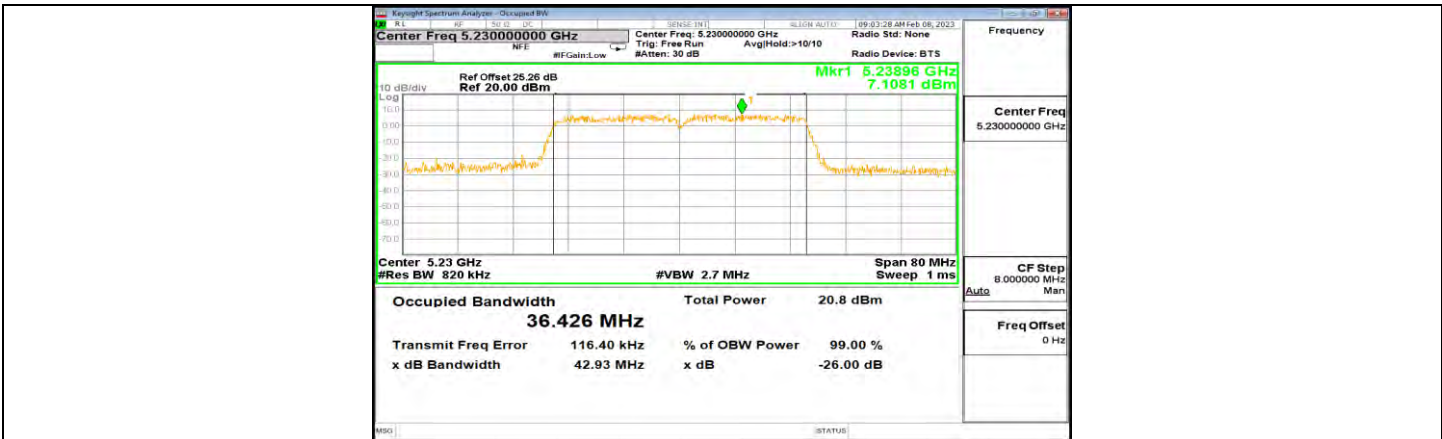


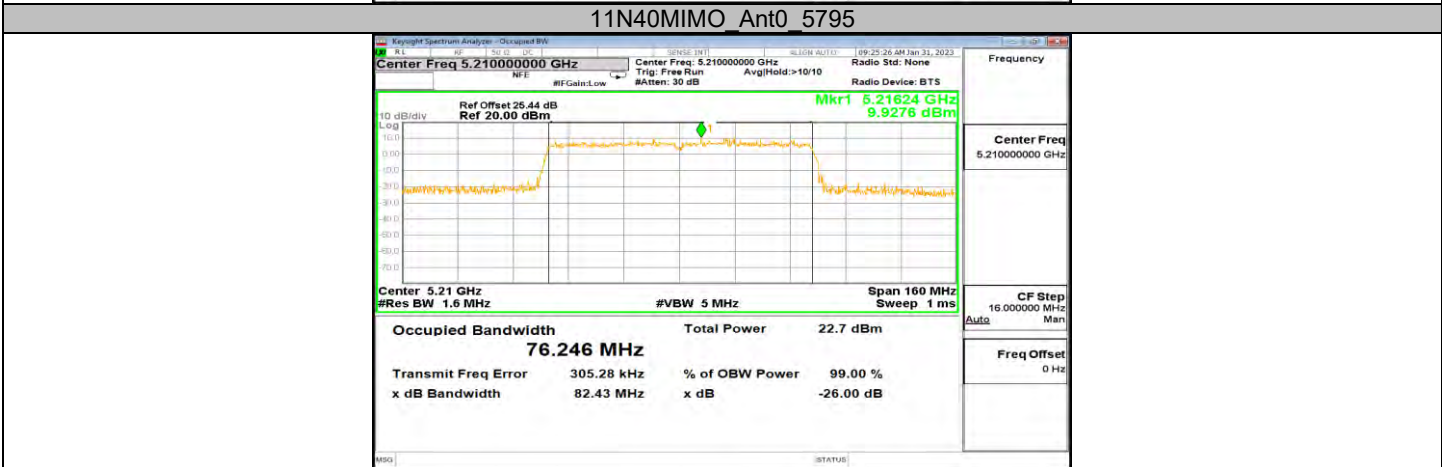
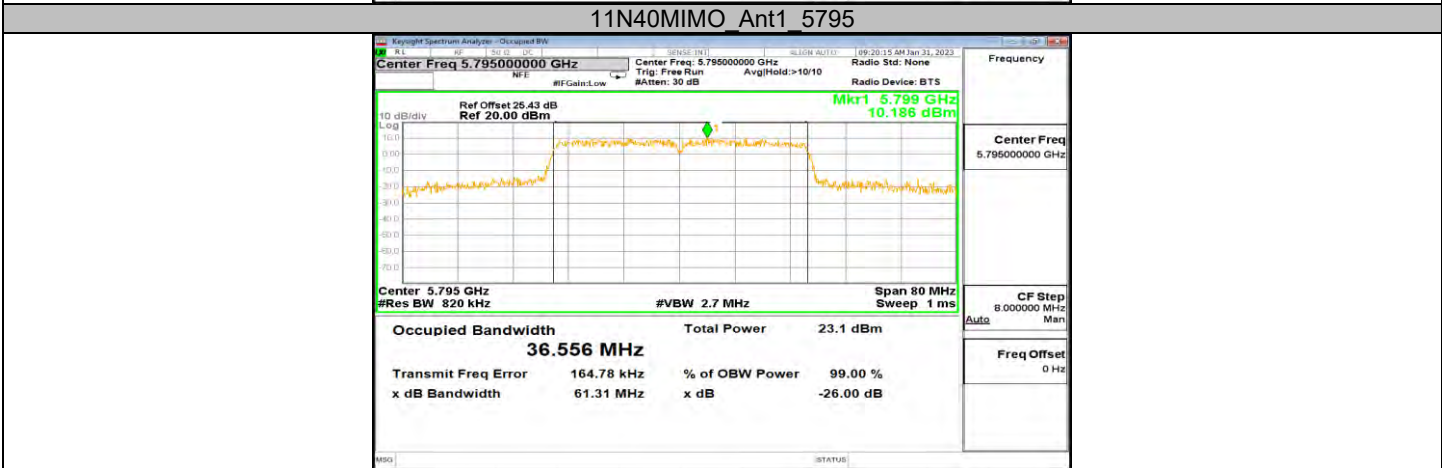
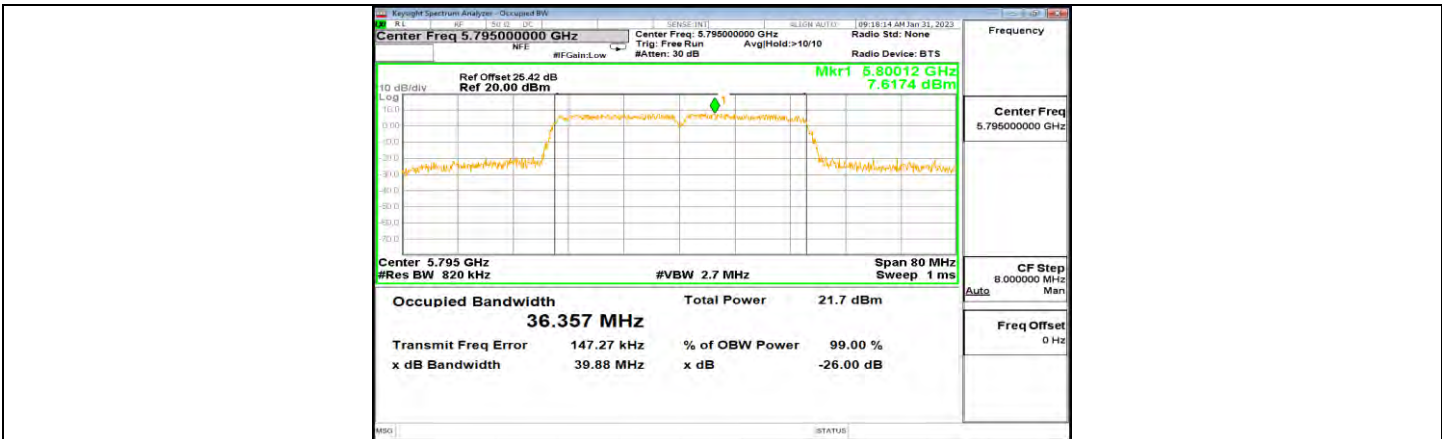


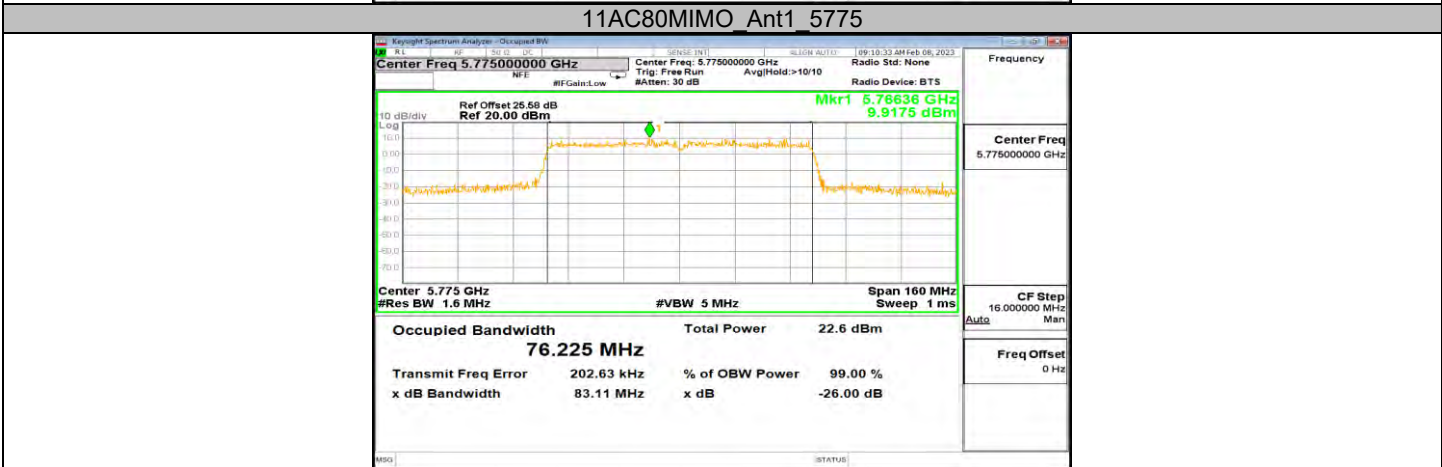
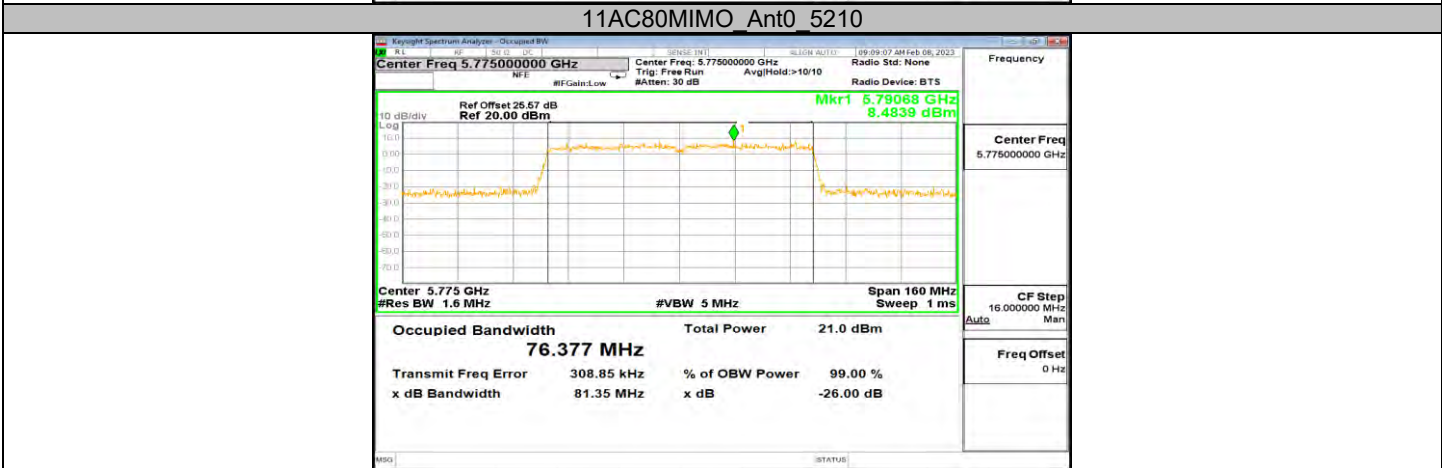
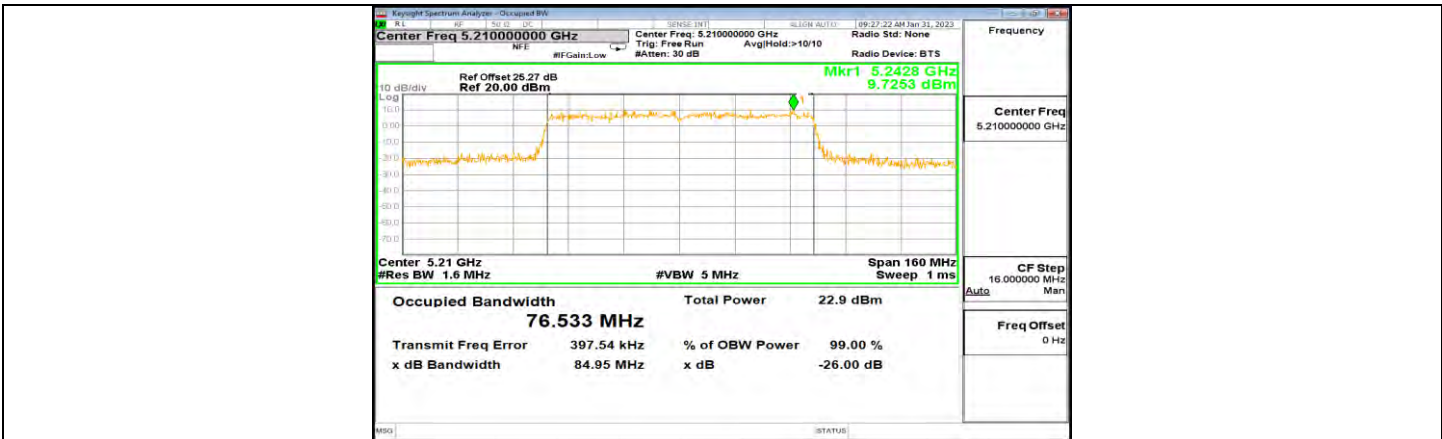
**11N20MIMO Ant0 5825**



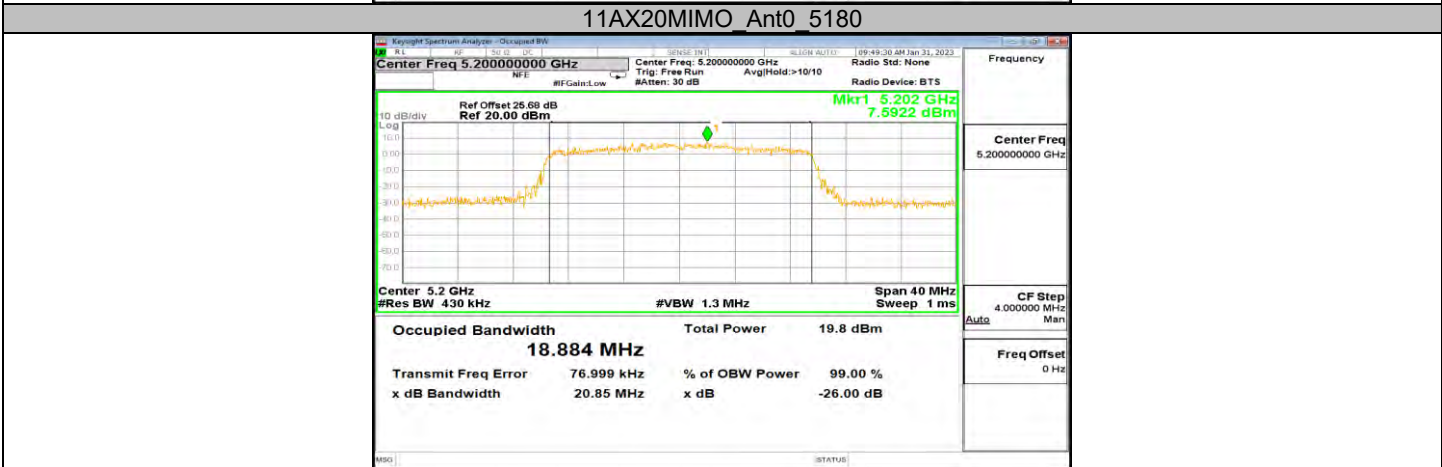
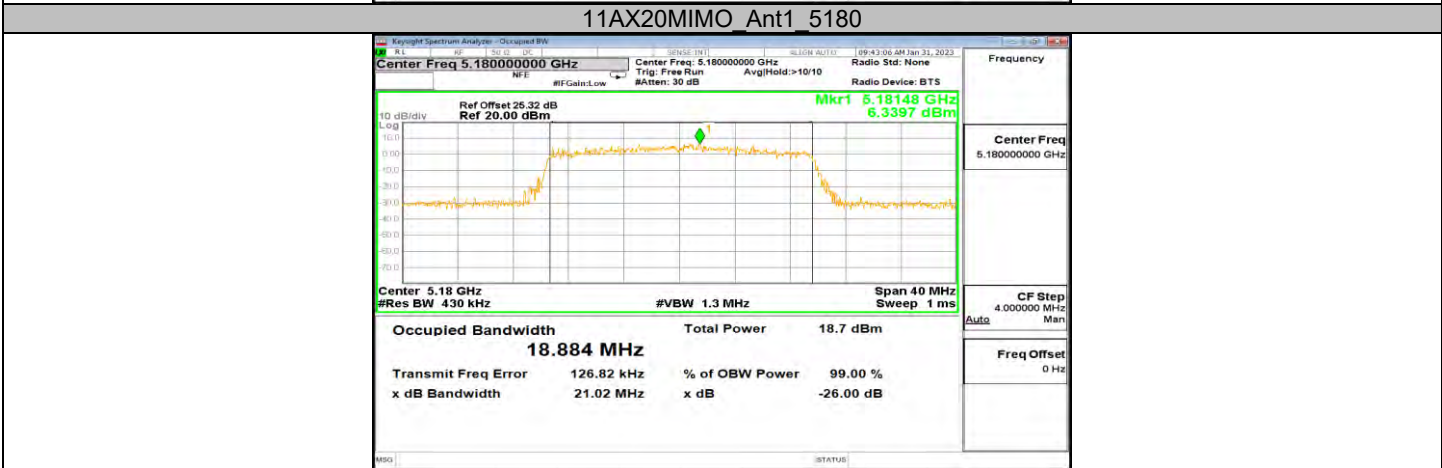
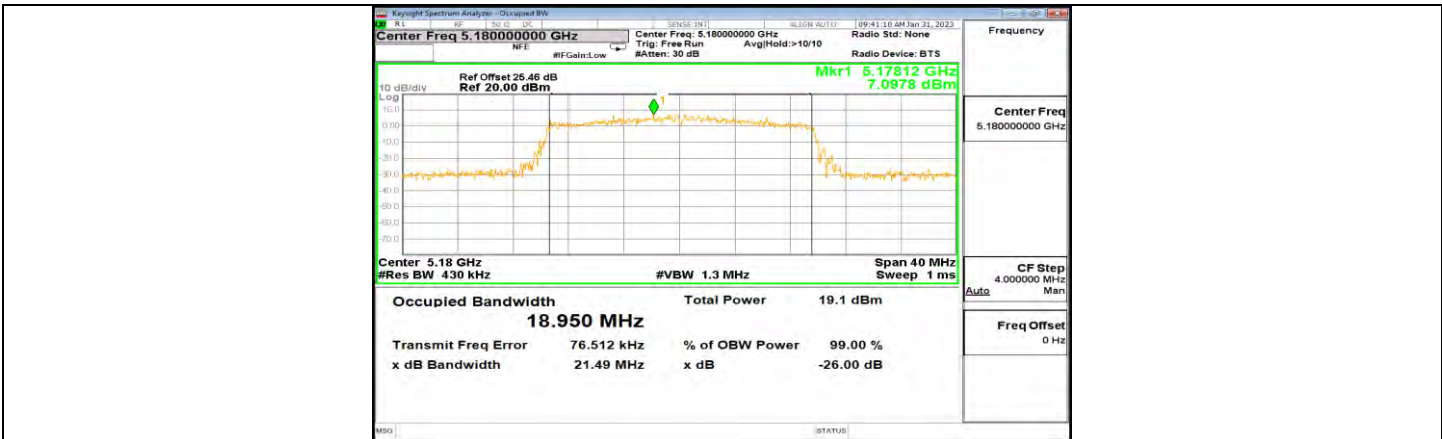
**11N40MIMO Ant1 5230**

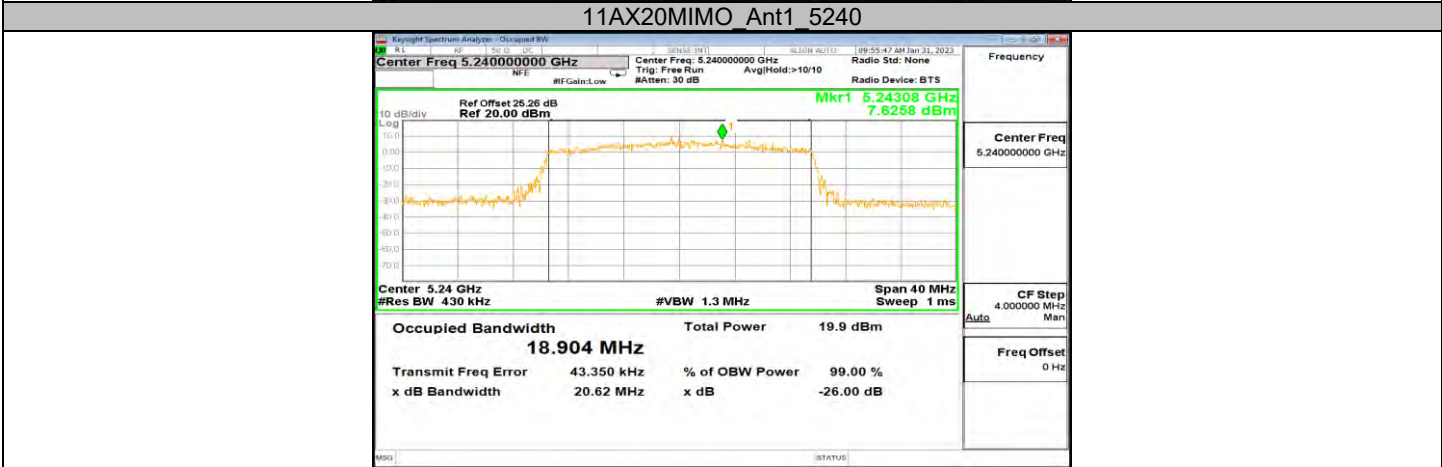
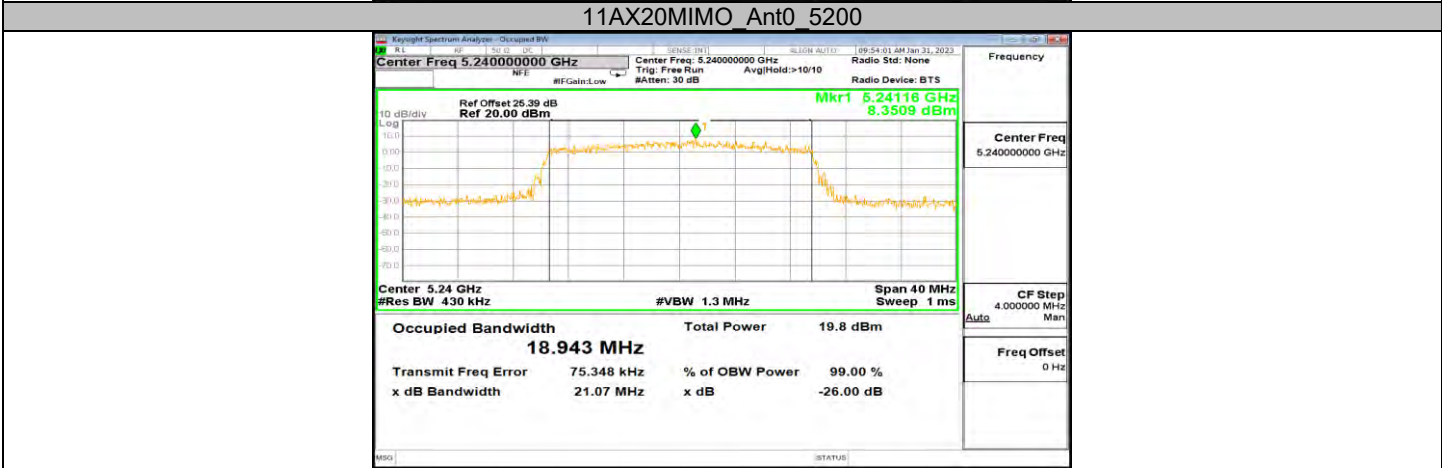
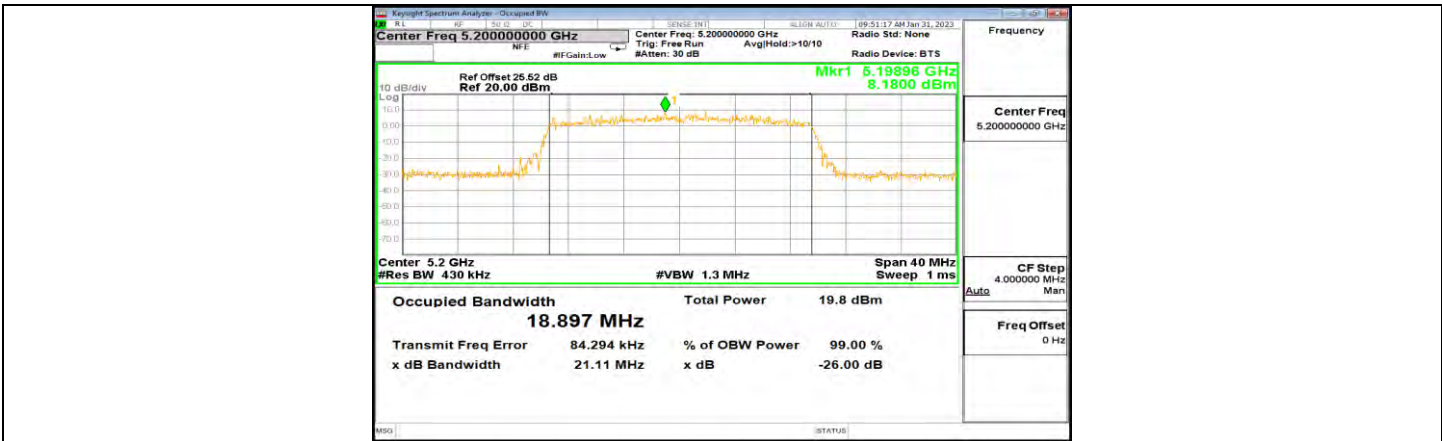






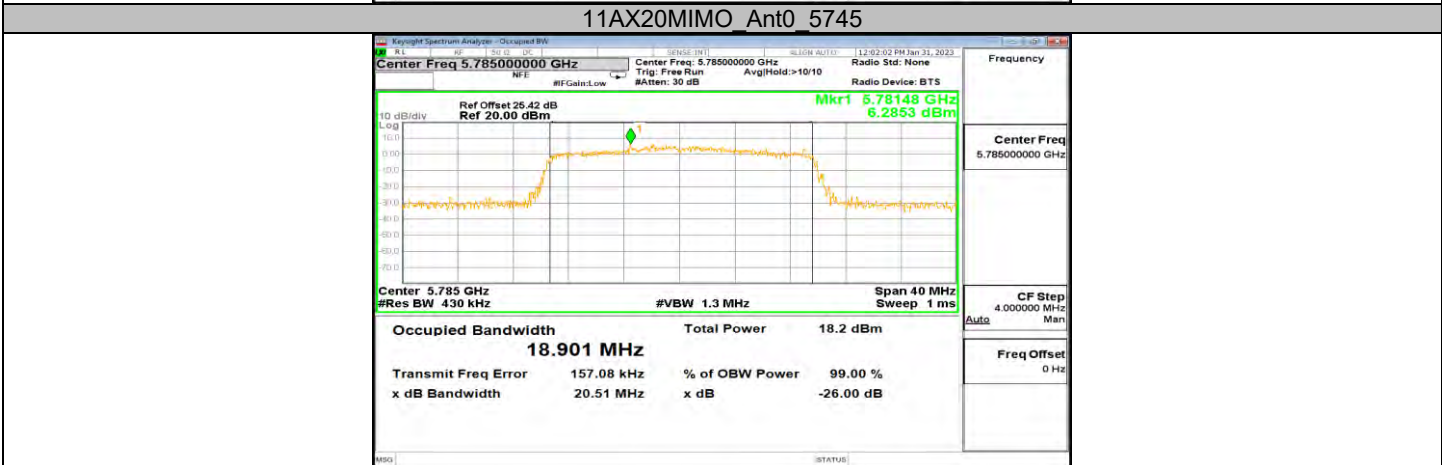
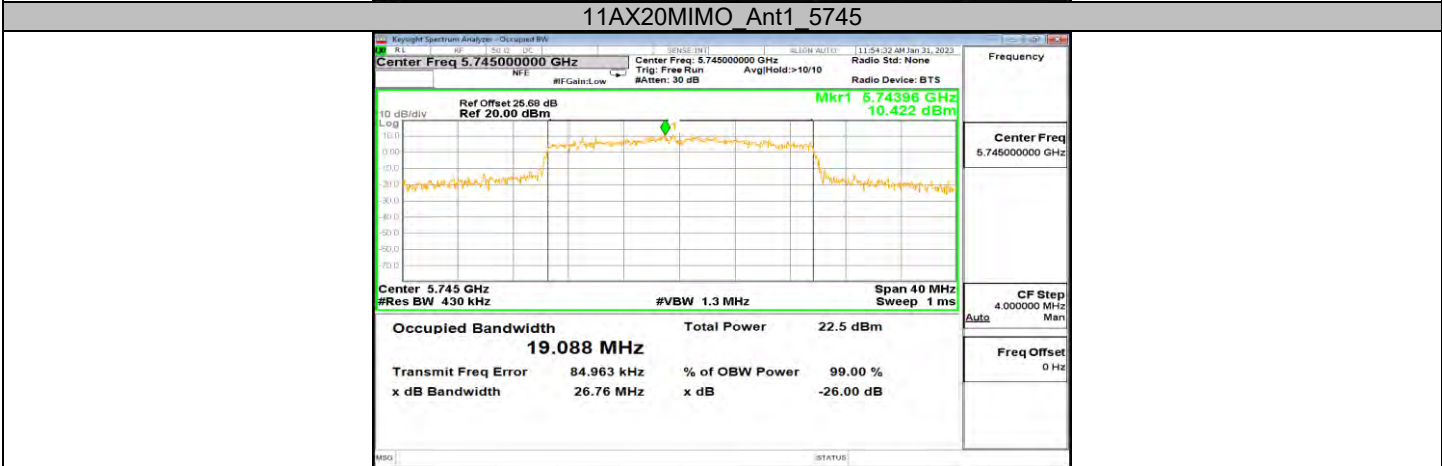
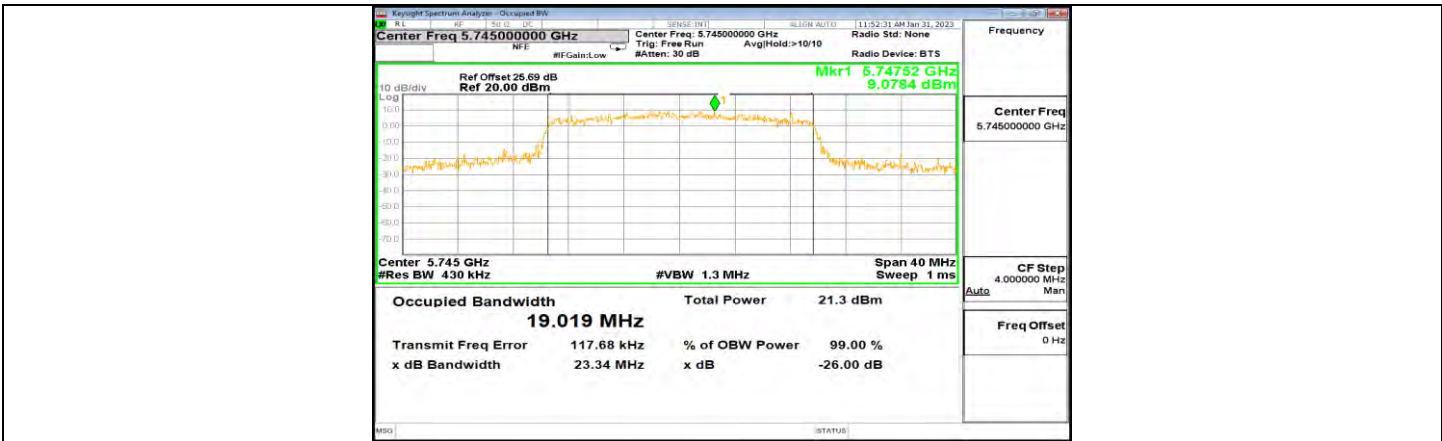
**11AC80MIMO Ant0 5775**



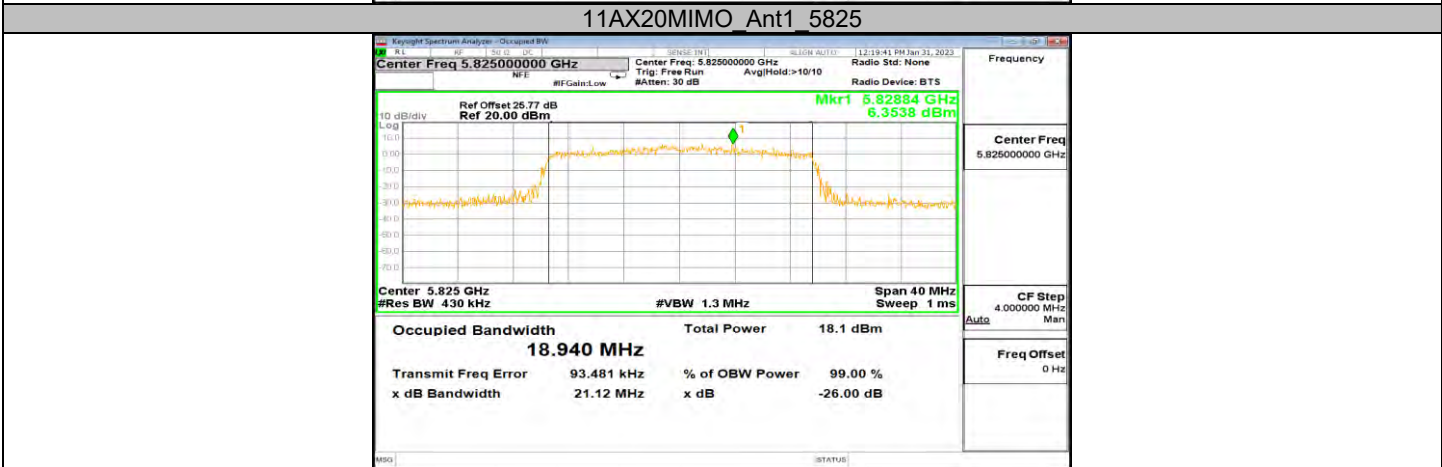
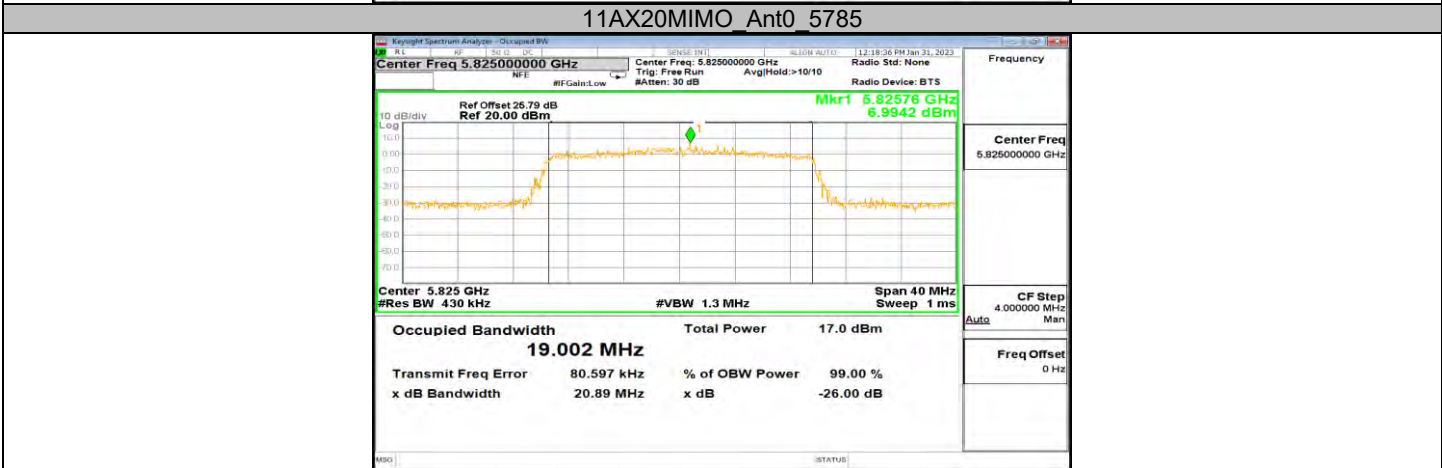
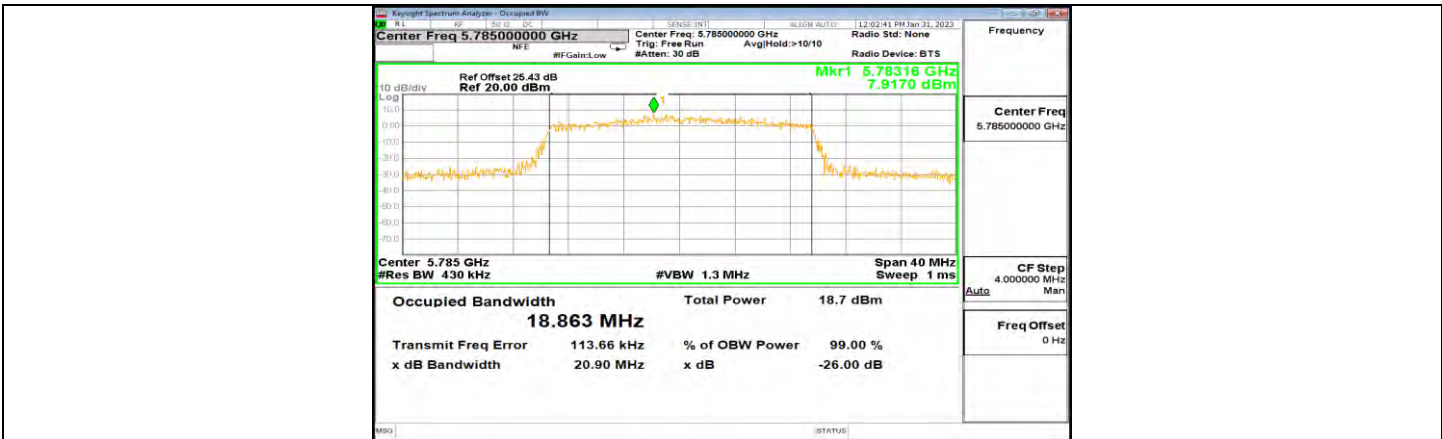


**11AX20MIMO\_Ant0\_5240**

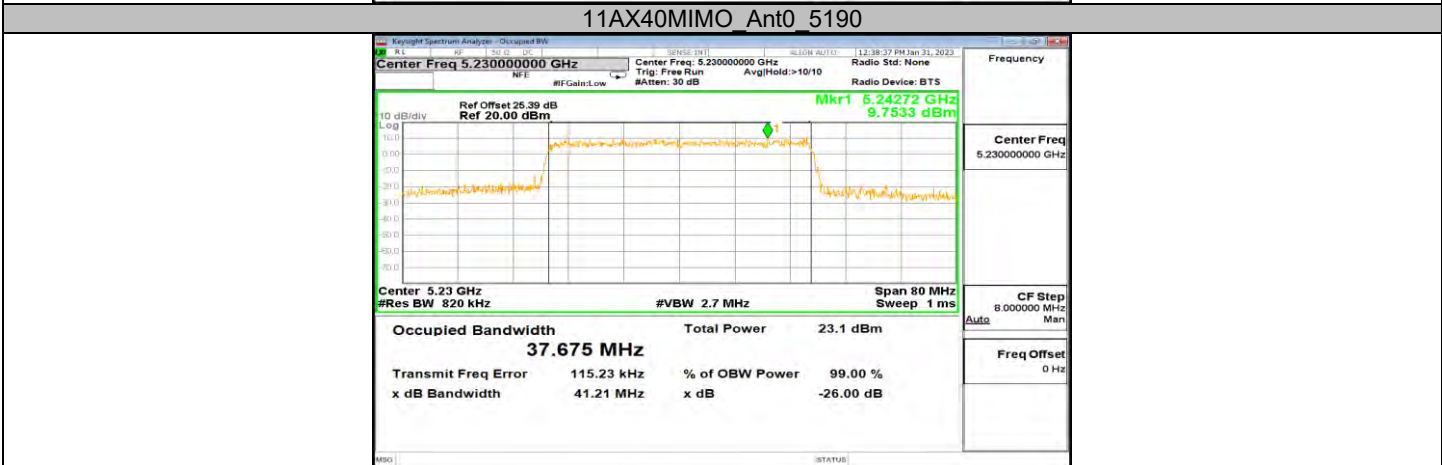
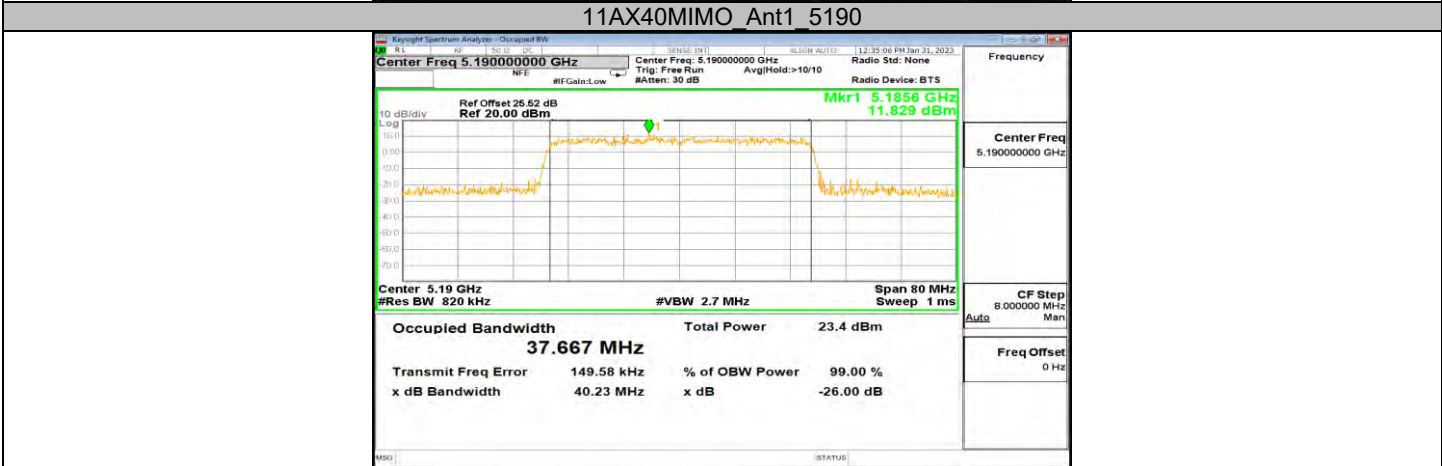
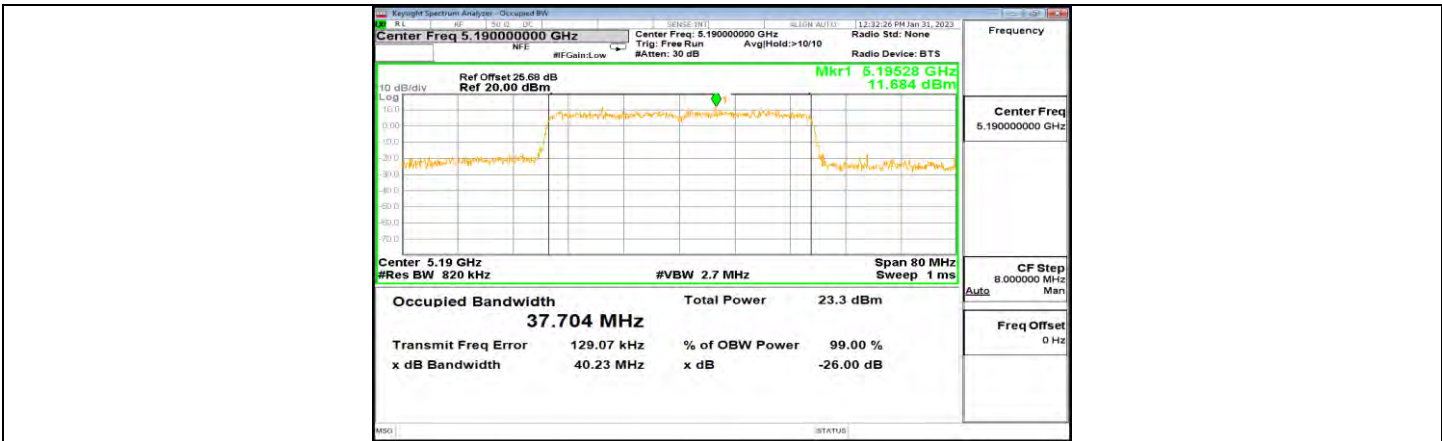


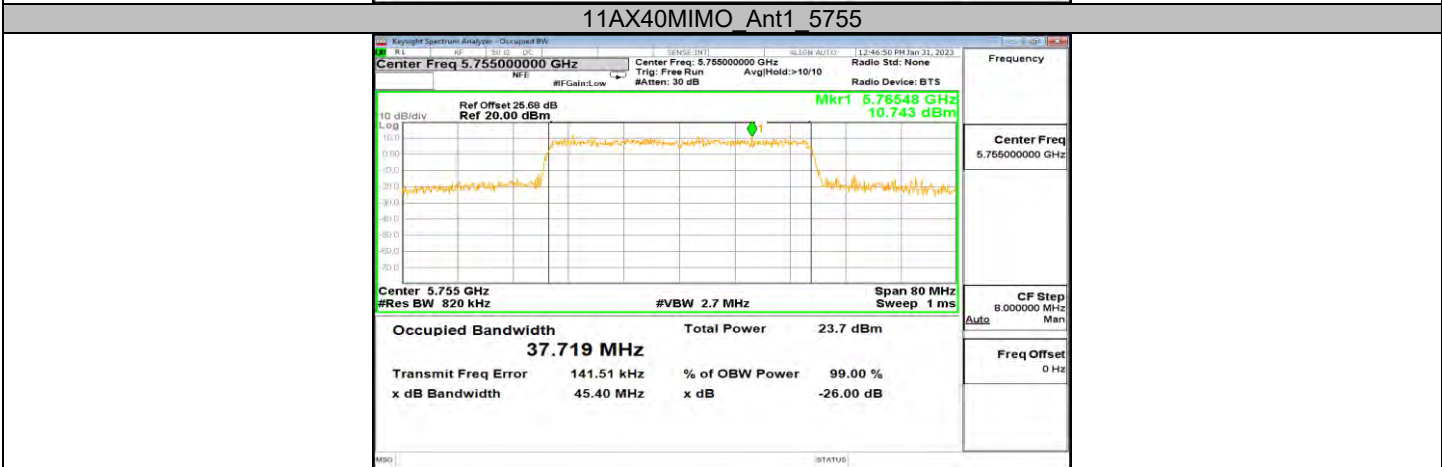
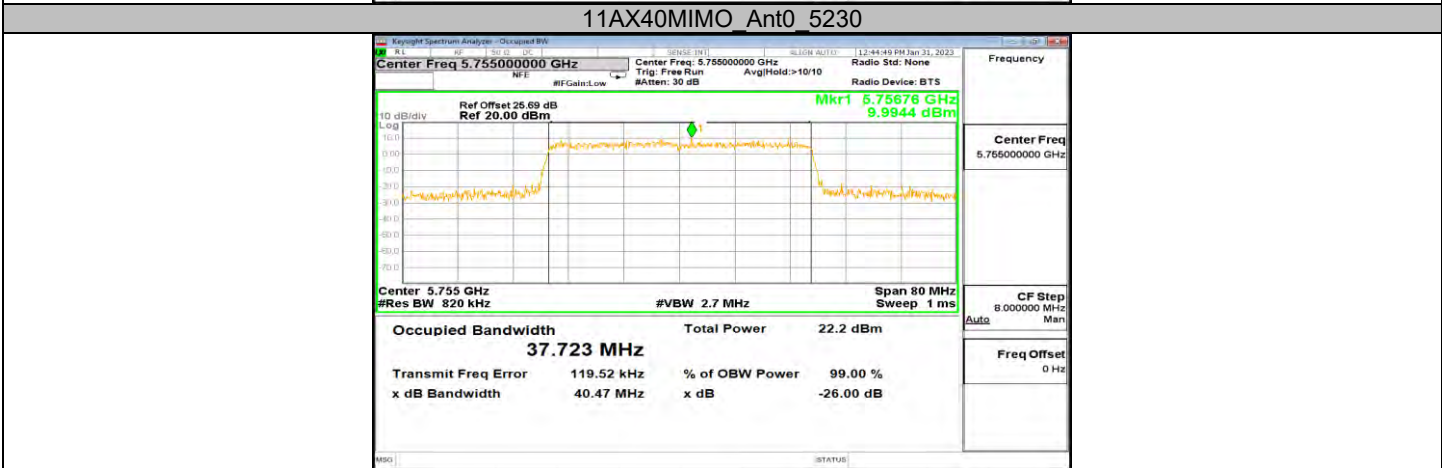
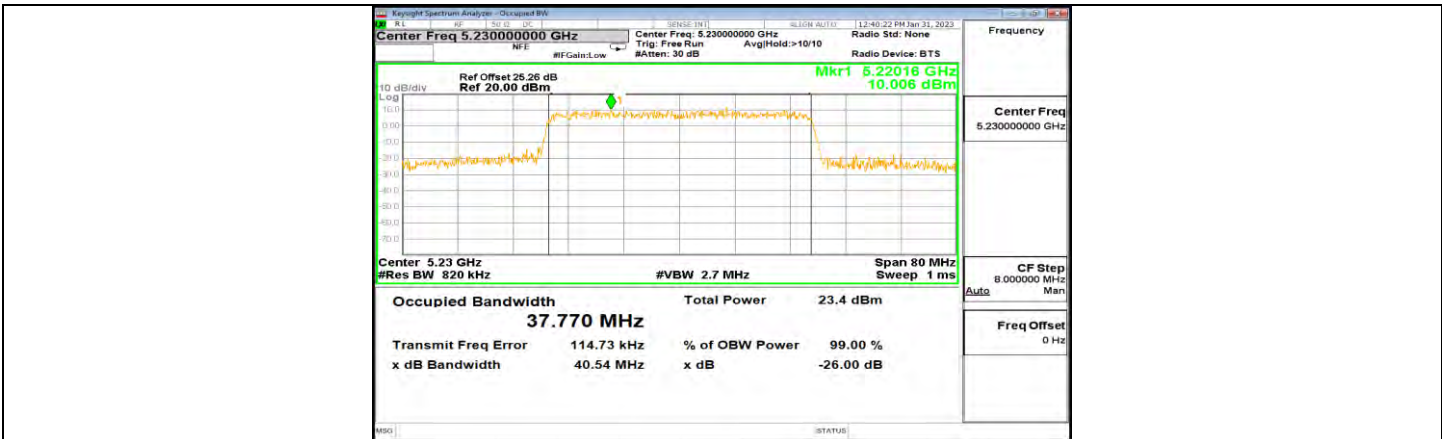


**11AX20MIMO Ant1 5785**

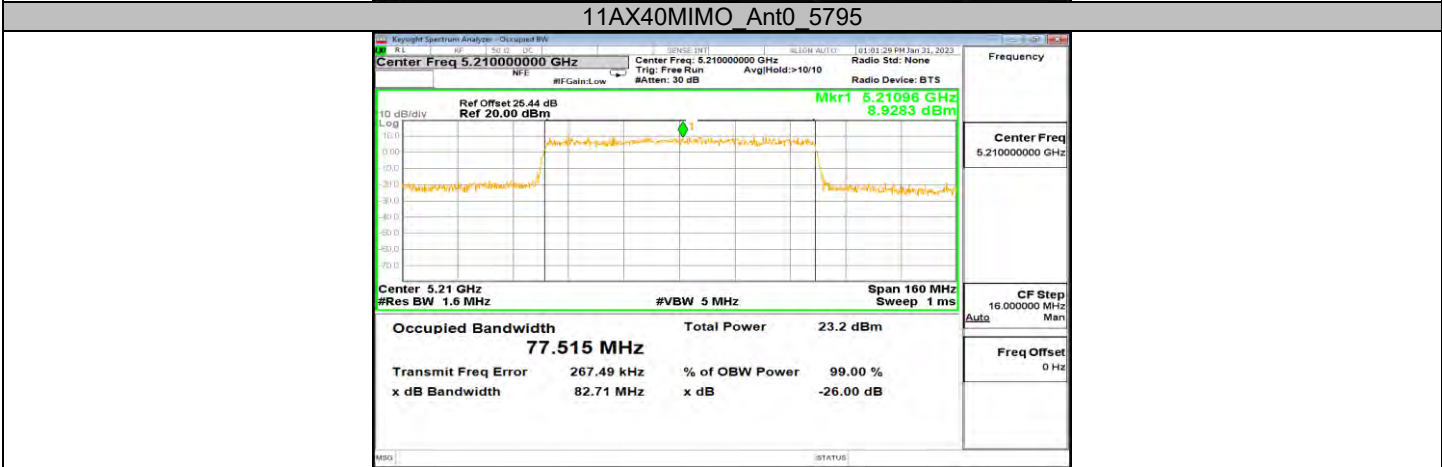
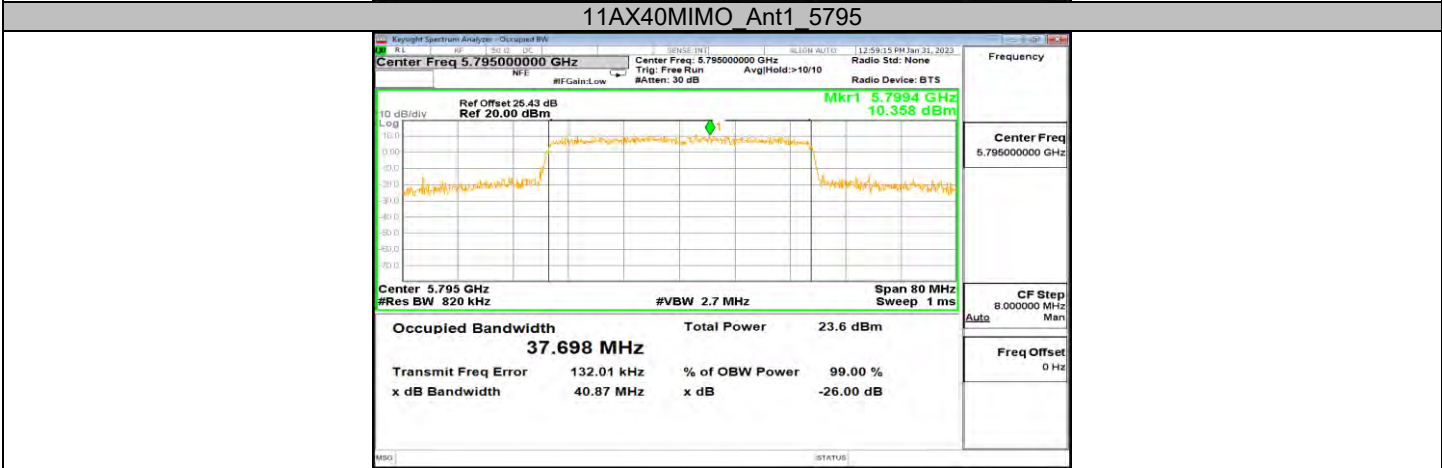
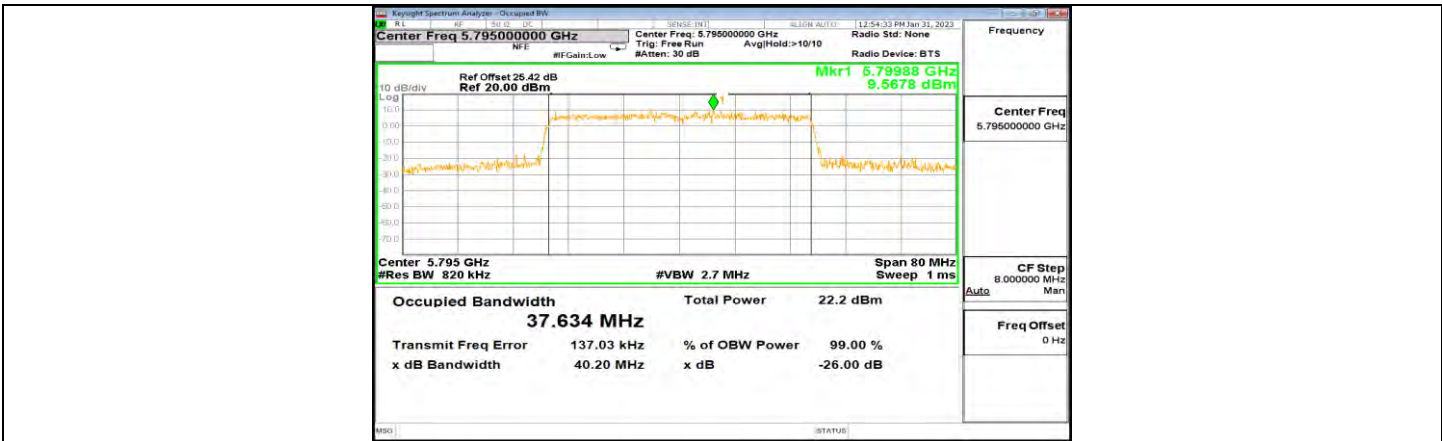


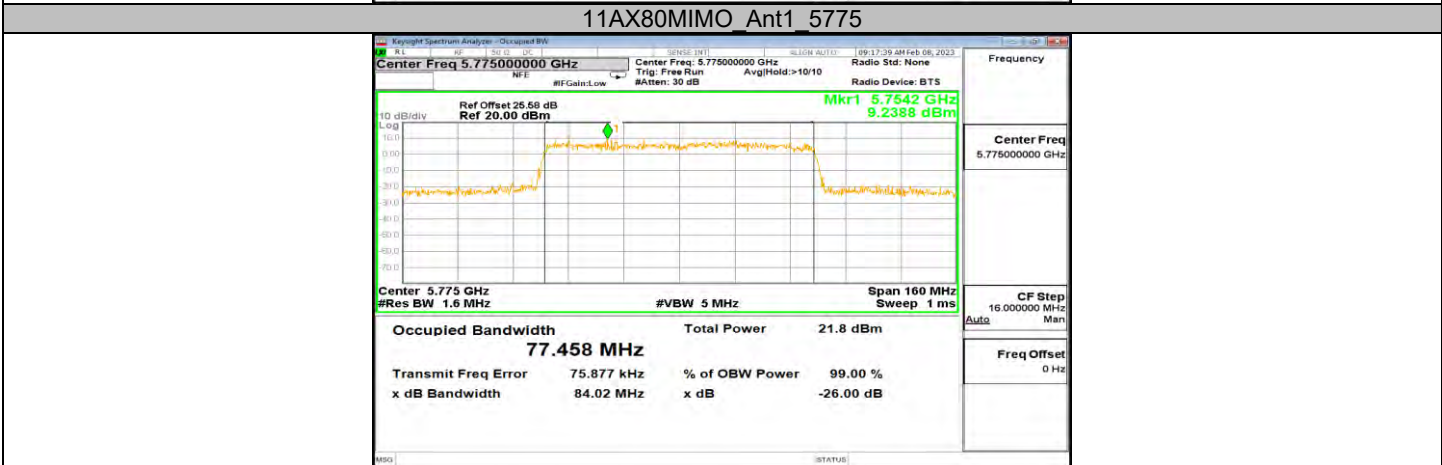
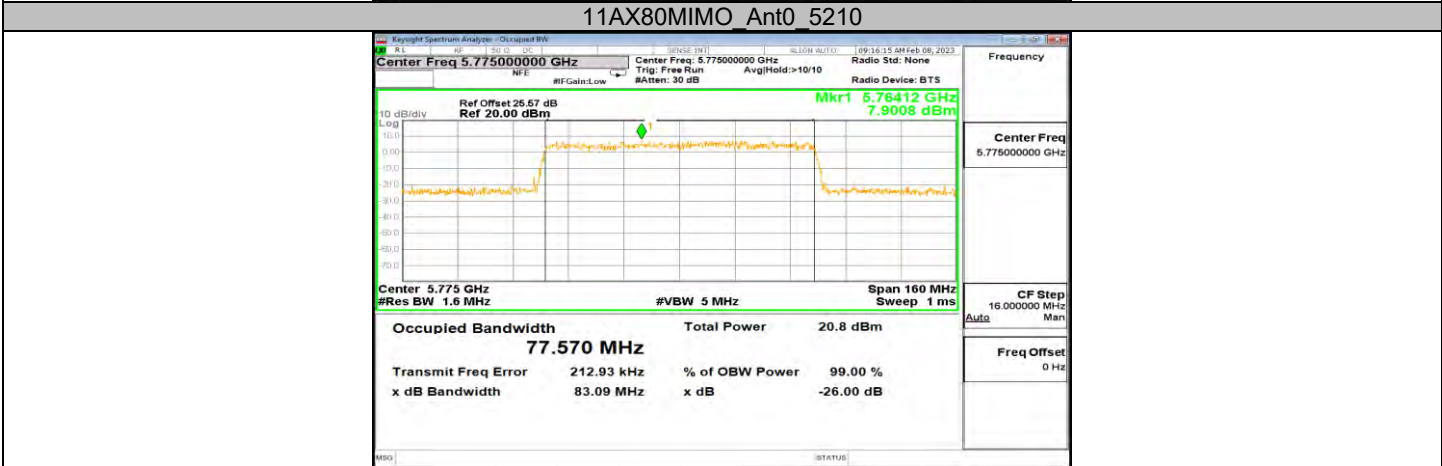
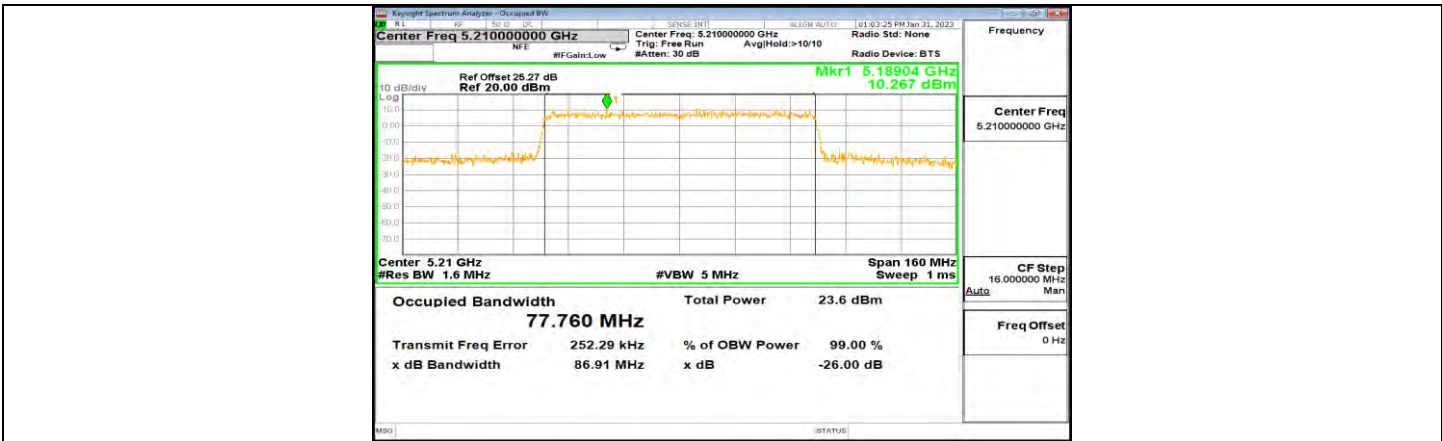
**11AX20MIMO Ant0 5825**





**11AX40MIMO Ant0 5755**





**11AX80MIMO Ant0 5775**

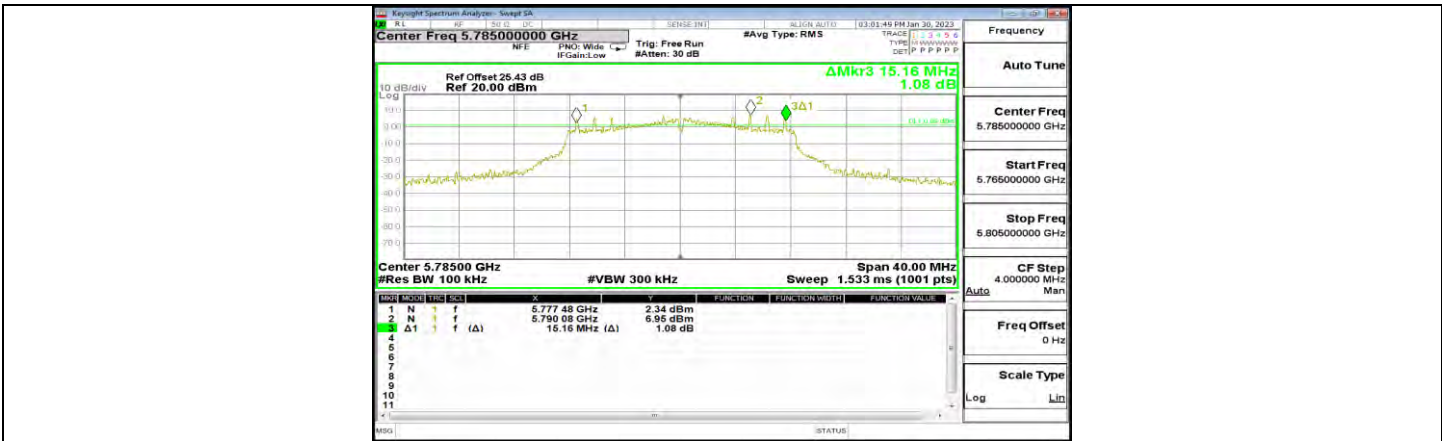
**11.3. APPENDIX C: MIN EMISSION BANDWIDTH****11.3.1. Test Result**

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.160	5737.480	5752.640	>=0.5	PASS
	Ant0	5745	15.160	5737.480	5752.640	>=0.5	PASS
	Ant1	5785	15.160	5777.480	5792.640	>=0.5	PASS
	Ant0	5785	15.160	5777.480	5792.640	>=0.5	PASS
	Ant1	5825	15.160	5817.480	5832.640	>=0.5	PASS
	Ant0	5825	15.160	5817.480	5832.640	>=0.5	PASS
11N20MIMO	Ant1	5745	15.160	5737.480	5752.640	>=0.5	PASS
	Ant0	5745	15.600	5737.400	5753.000	>=0.5	PASS
	Ant1	5785	15.120	5777.480	5792.600	>=0.5	PASS
	Ant0	5785	15.200	5777.480	5792.680	>=0.5	PASS
	Ant1	5825	15.160	5817.480	5832.640	>=0.5	PASS
	Ant0	5825	15.160	5817.480	5832.640	>=0.5	PASS
11N40MIMO	Ant1	5755	36.320	5736.920	5773.240	>=0.5	PASS
	Ant0	5755	35.920	5737.080	5773.000	>=0.5	PASS
	Ant1	5795	35.520	5777.560	5813.080	>=0.5	PASS
	Ant0	5795	36.320	5776.920	5813.240	>=0.5	PASS
11AC80MIMO	Ant1	5775	76.320	5736.920	5813.240	>=0.5	PASS
	Ant0	5775	76.320	5736.920	5813.240	>=0.5	PASS
11AX20MIMO	Ant1	5745	18.720	5735.720	5754.440	>=0.5	PASS
	Ant0	5745	18.080	5736.080	5754.160	>=0.5	PASS
	Ant1	5785	18.240	5775.800	5794.040	>=0.5	PASS
	Ant0	5785	18.240	5775.800	5794.040	>=0.5	PASS
	Ant1	5825	18.440	5815.960	5834.400	>=0.5	PASS
	Ant0	5825	18.440	5815.760	5834.200	>=0.5	PASS
11AX40MIMO	Ant1	5755	37.840	5736.040	5773.880	>=0.5	PASS
	Ant0	5755	37.440	5736.280	5773.720	>=0.5	PASS
	Ant1	5795	37.520	5776.280	5813.800	>=0.5	PASS
	Ant0	5795	37.040	5776.280	5813.320	>=0.5	PASS
11AX80MIMO	Ant1	5775	77.760	5736.280	5814.040	>=0.5	PASS
	Ant0	5775	76.480	5737.080	5813.560	>=0.5	PASS

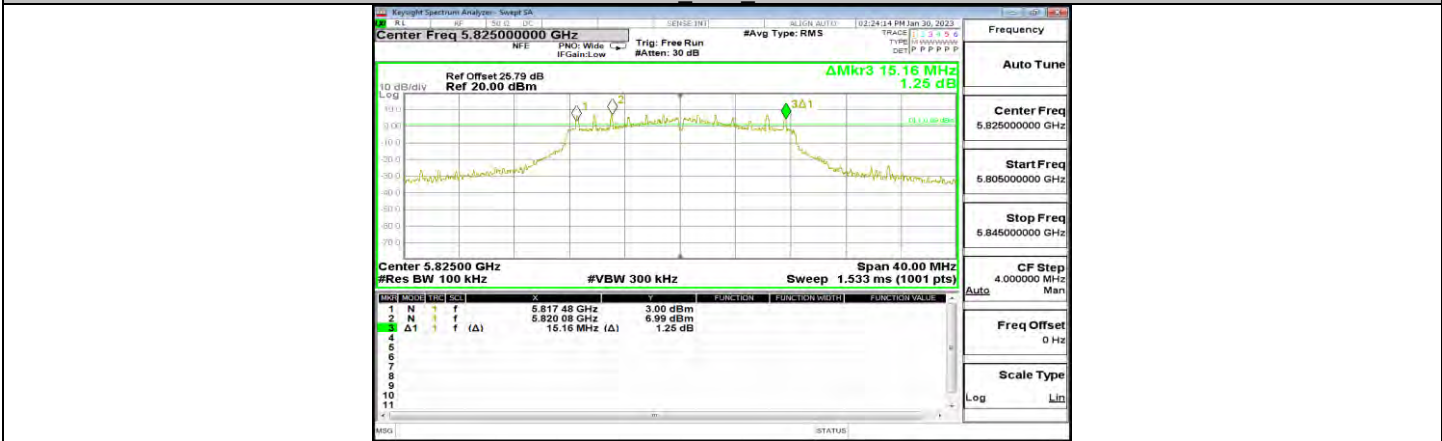
### 11.3.2. Test Graphs



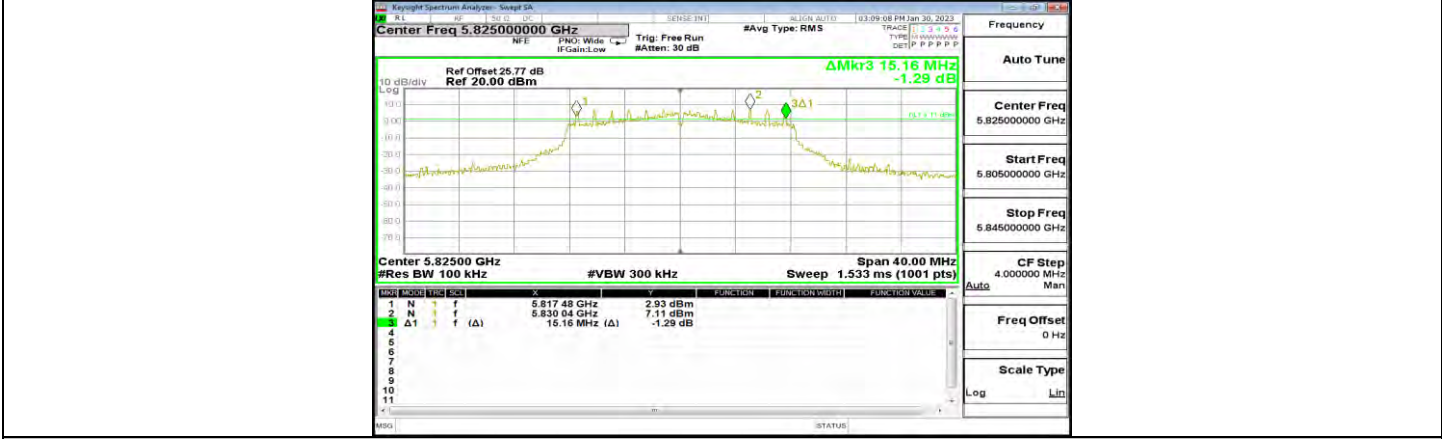




11A Ant0 5785



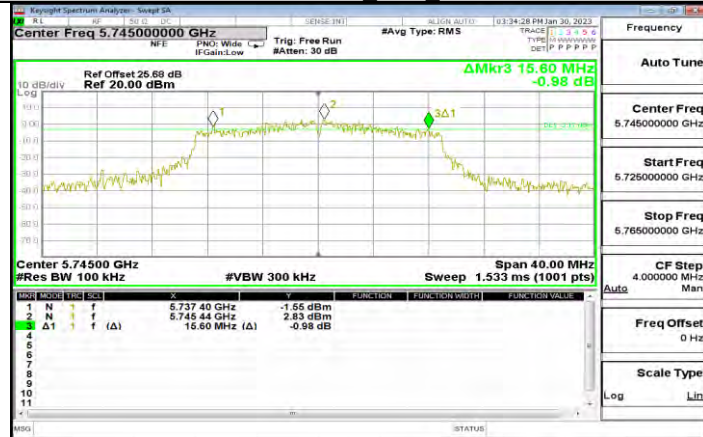
11A Ant1 5825



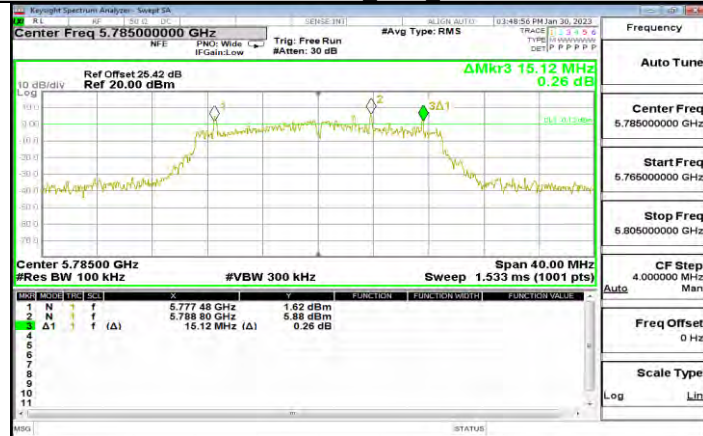
11A Ant0 5825



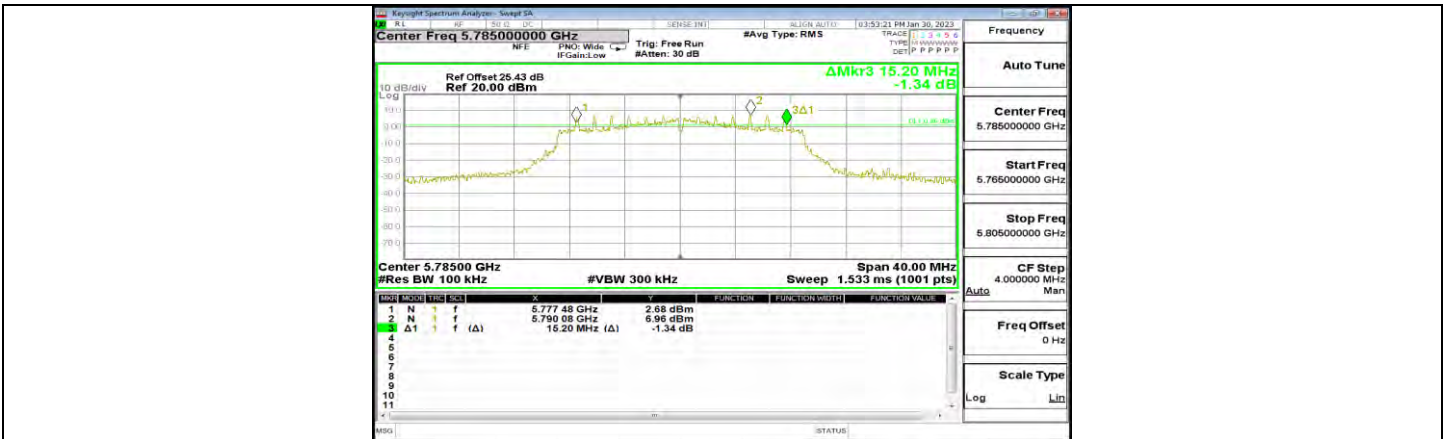
11N20MIMO Ant1 5745



11N20MIMO Ant0 5745



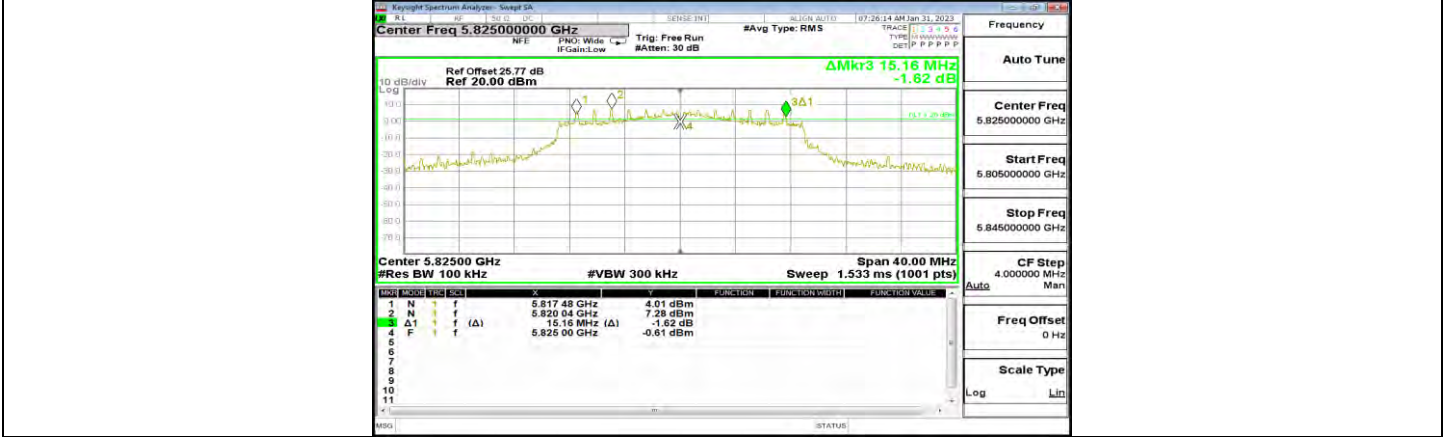
11N20MIMO Ant1 5785



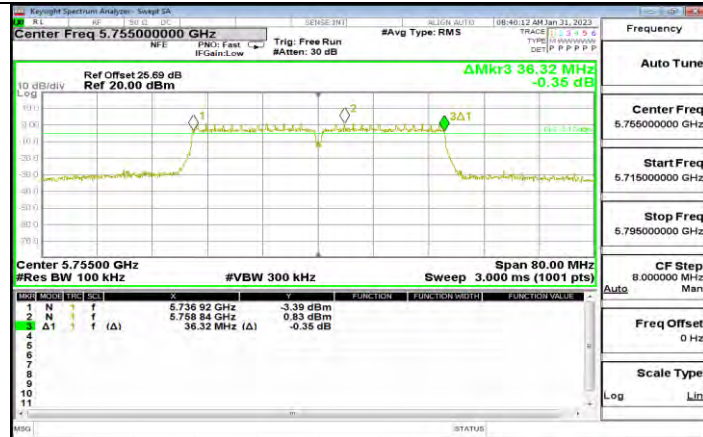
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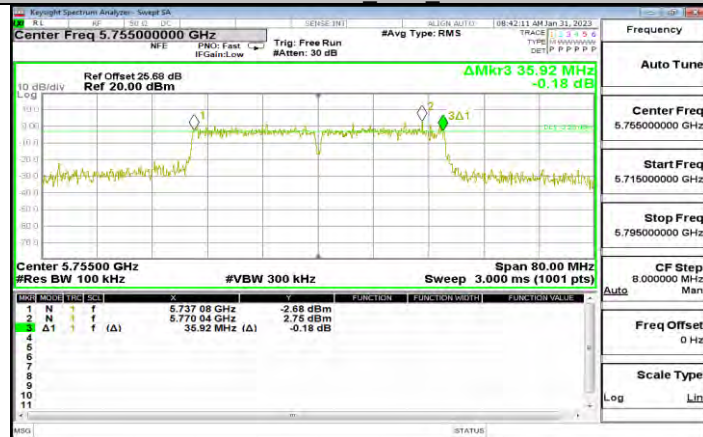
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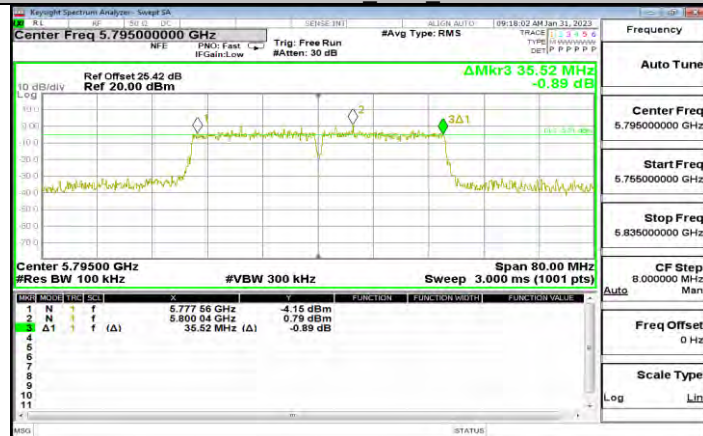
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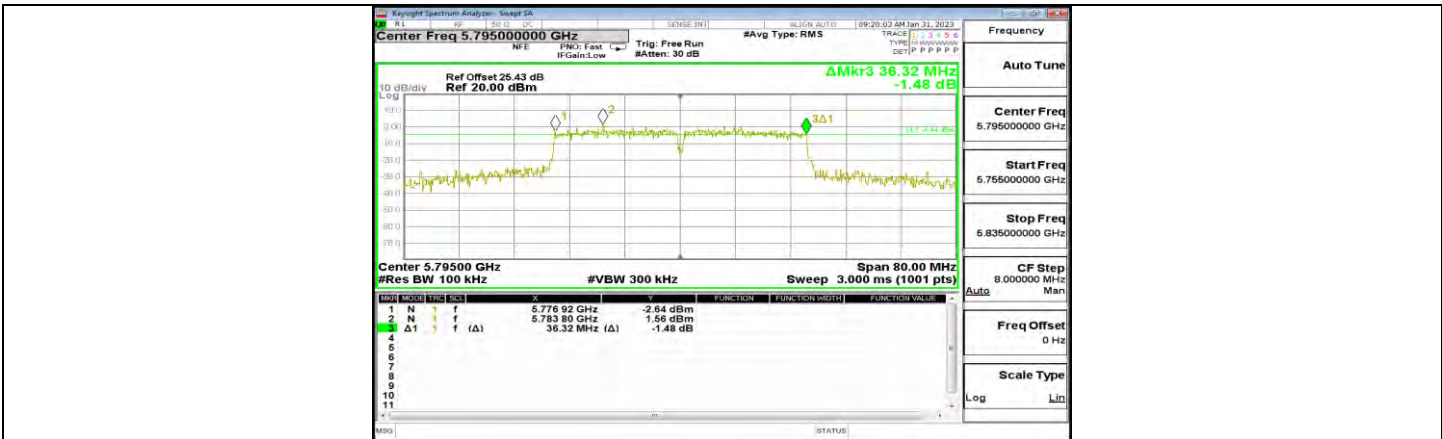
11N40MIMO Ant1 5755



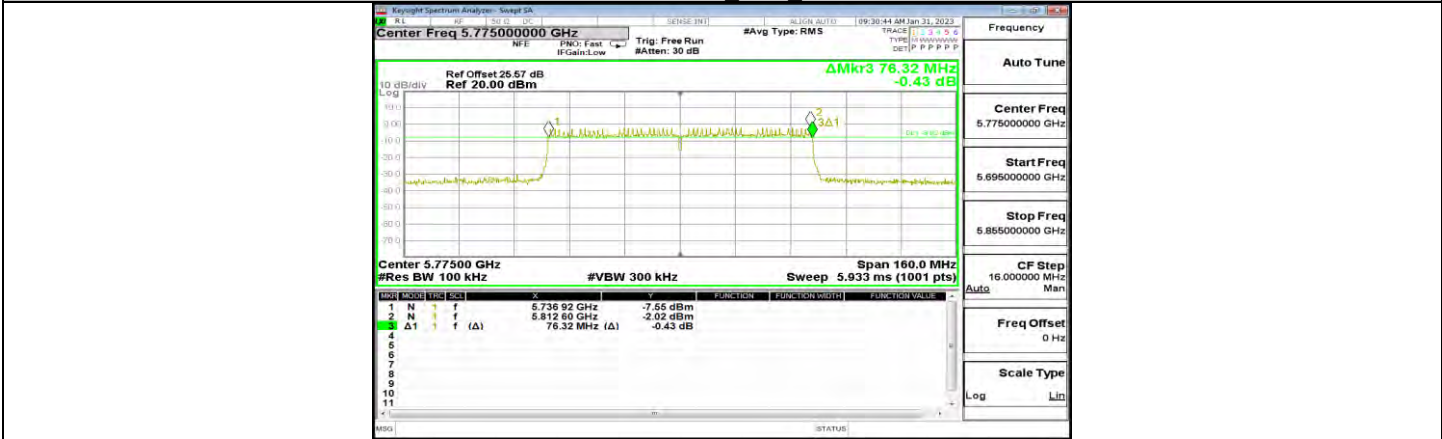
11N40MIMO Ant0 5755



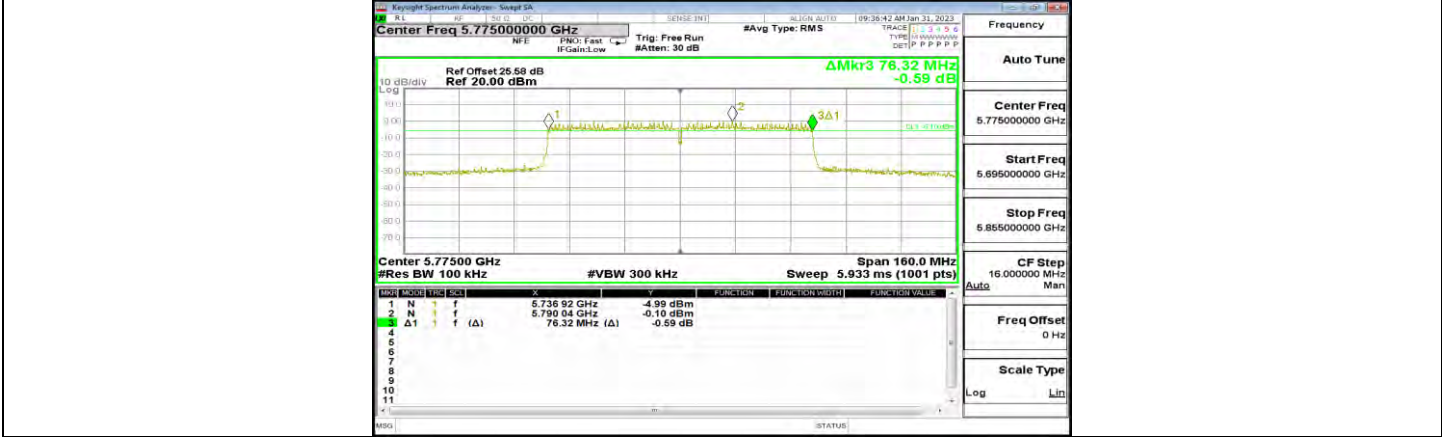
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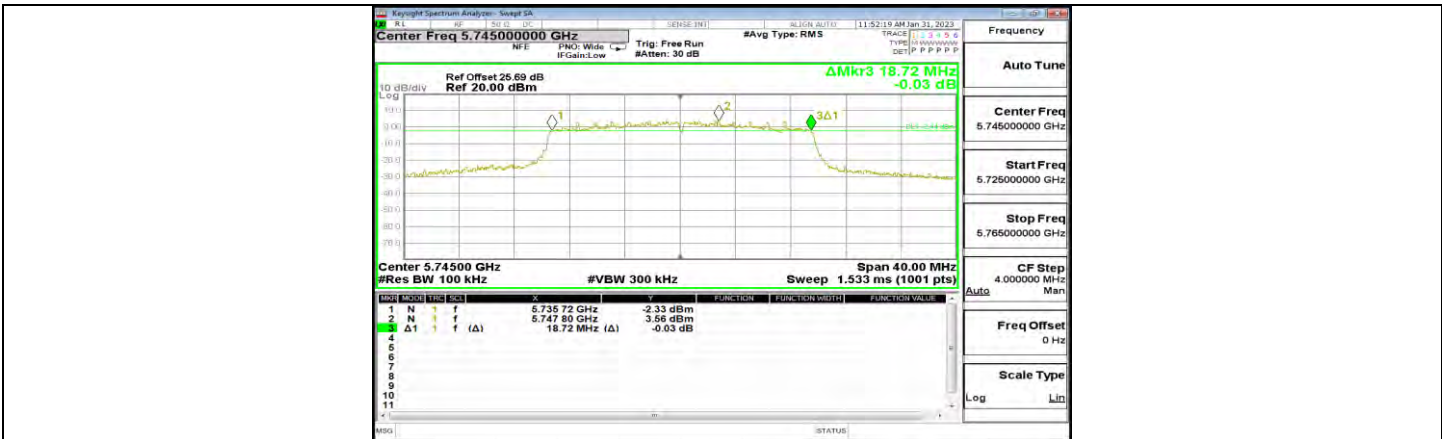
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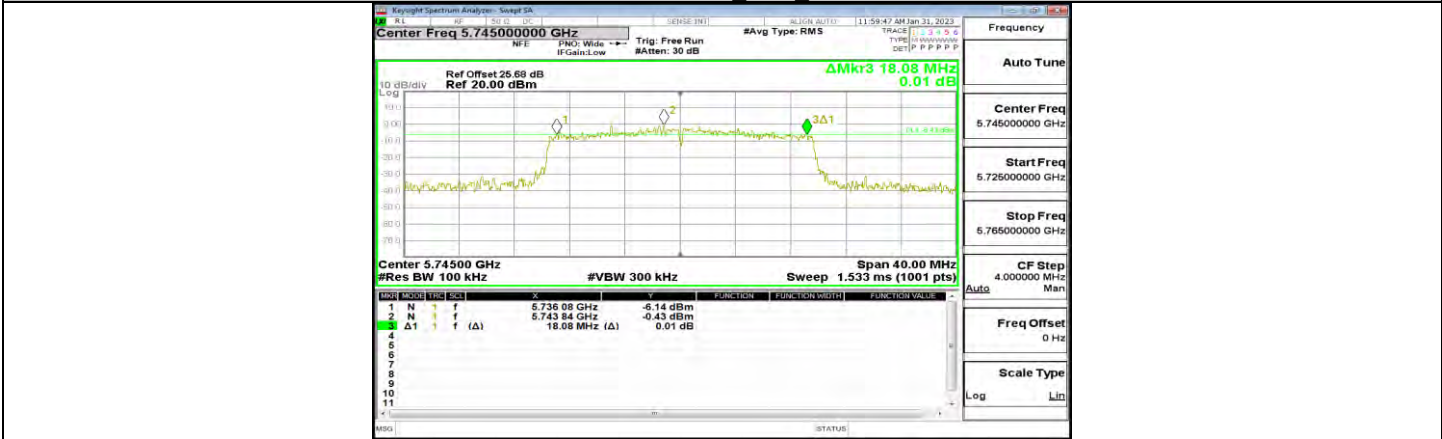
11A80MIMO Ant1 5775



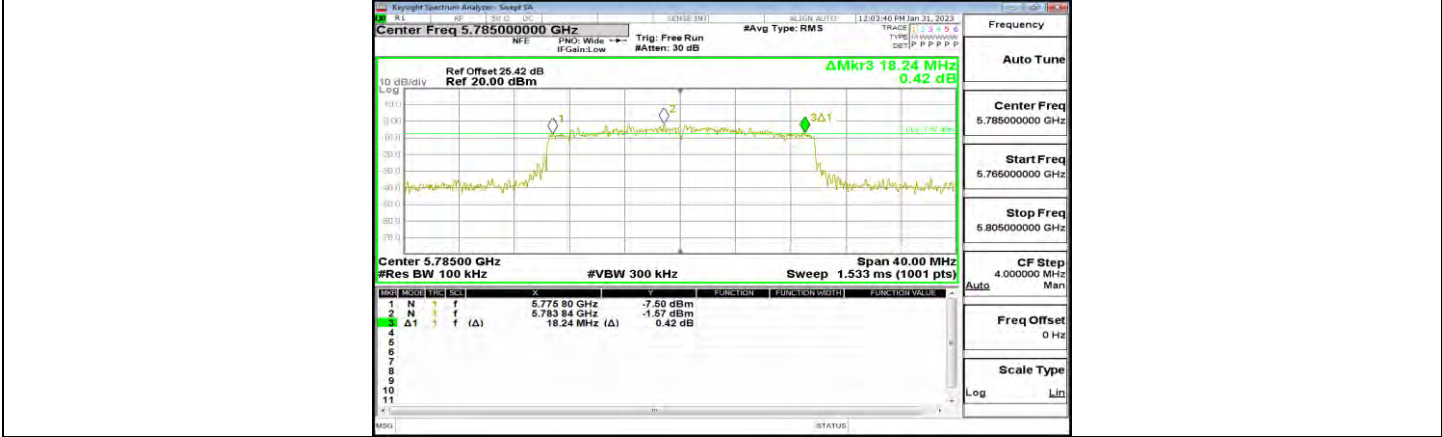
11A80MIMO Ant0 5775



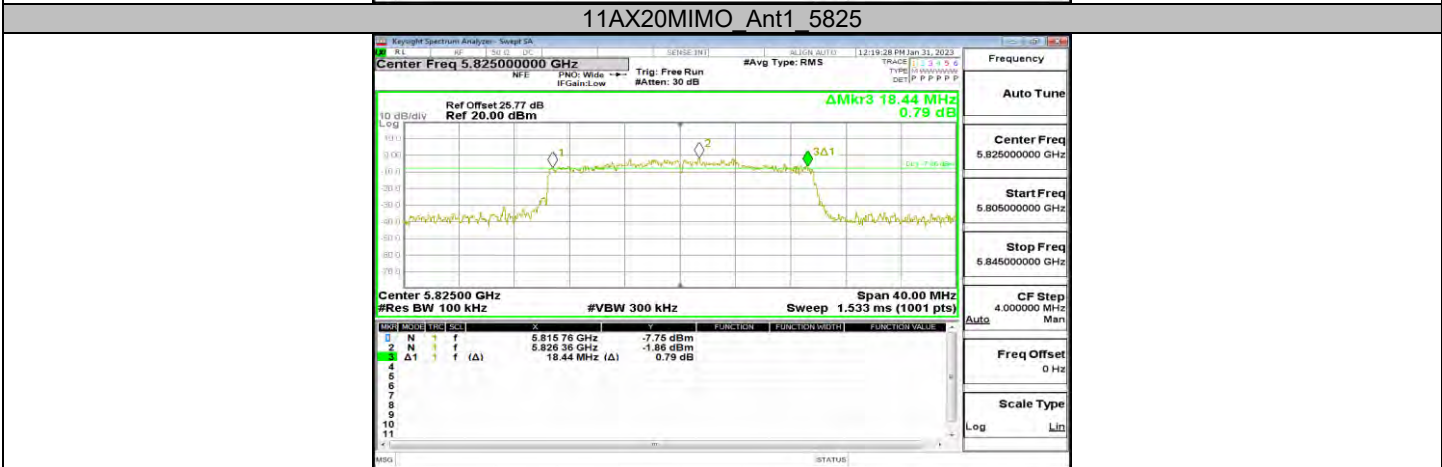
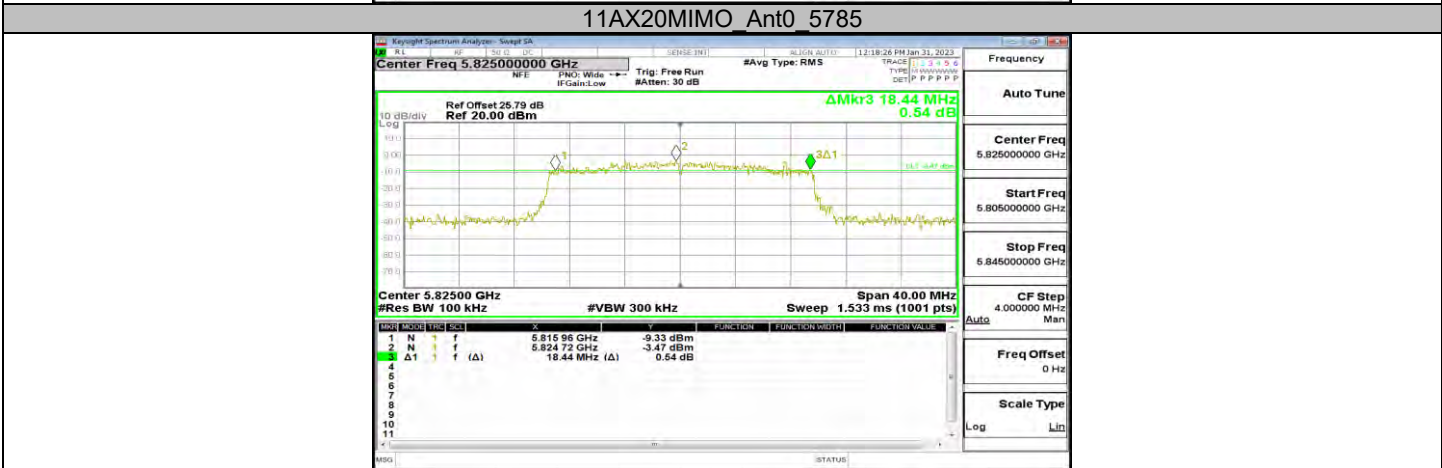
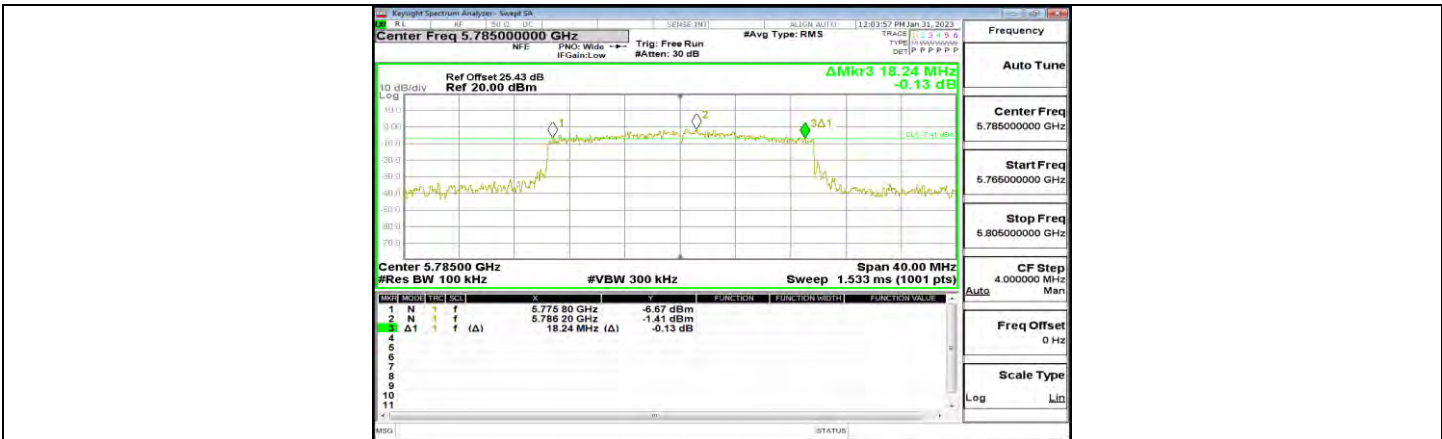
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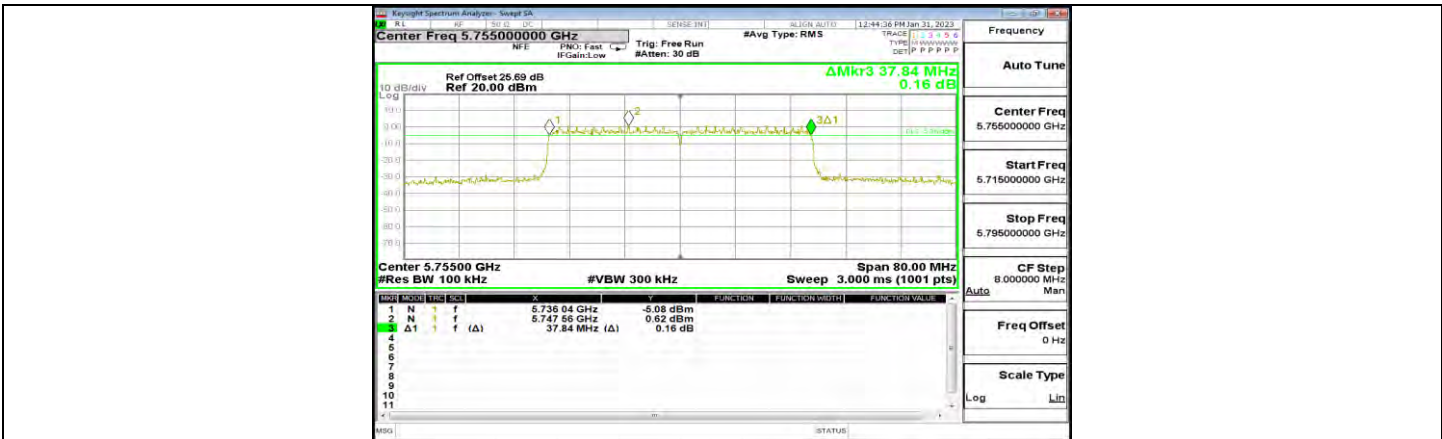


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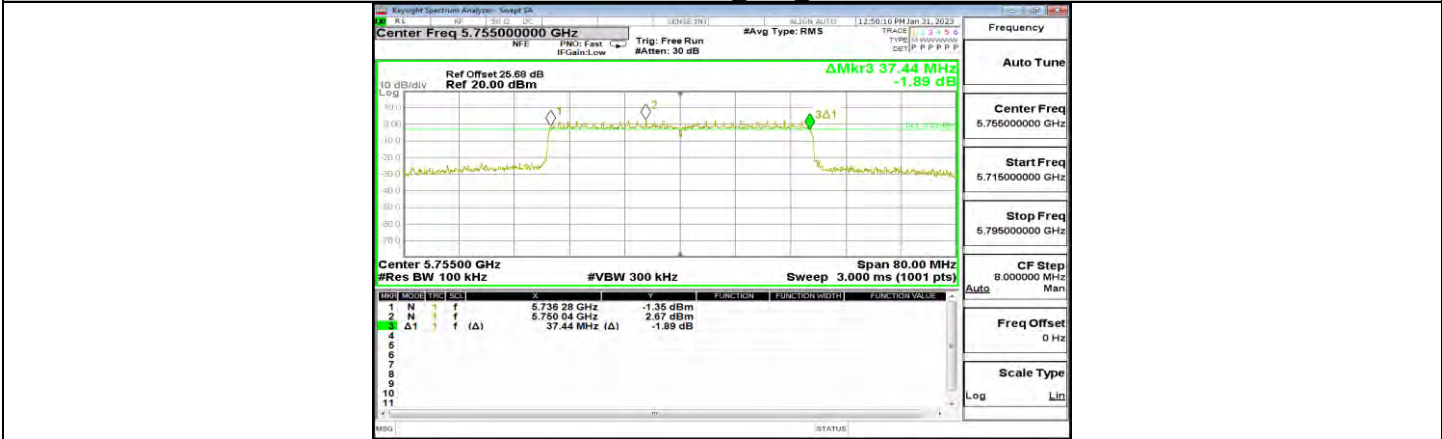


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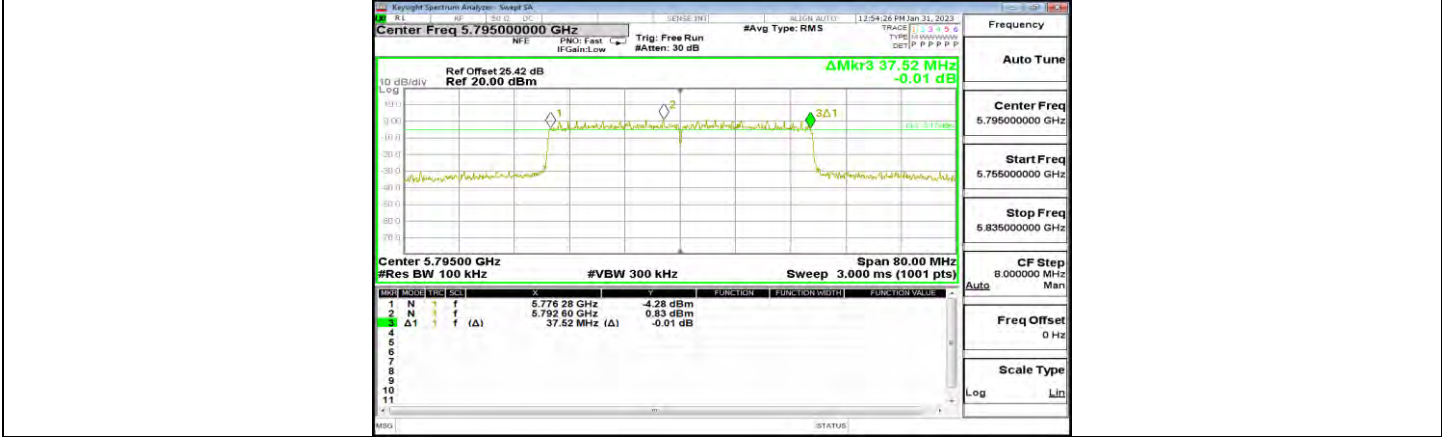




11AX40MIMO Ant1 5755



11AX40MIMO Ant0 5755



11AX40MIMO Ant1 5795

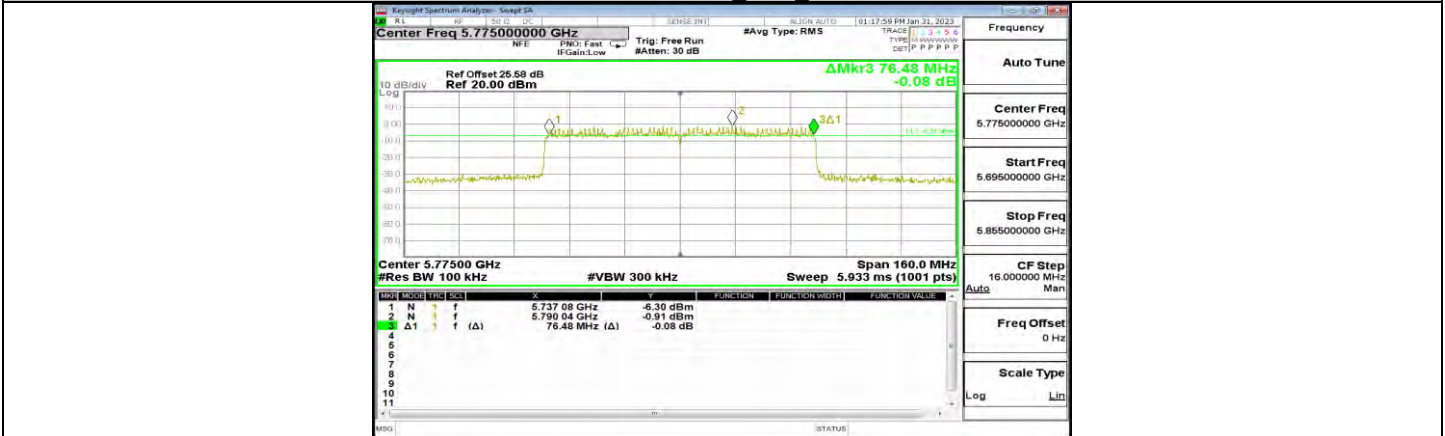




11AX40MIMO Ant0 5795



11AX80MIMO Ant1 5775



11AX80MIMO Ant0 5775