

RF Test Data for RLAN(5.2G) (Conducted Measurement)

Product Name: 4K OTT BOX

Trade Mark: N/A

Test Model: SN6BKHE

FCC ID: 2AOVU-SN6BKHE

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

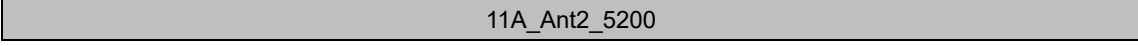
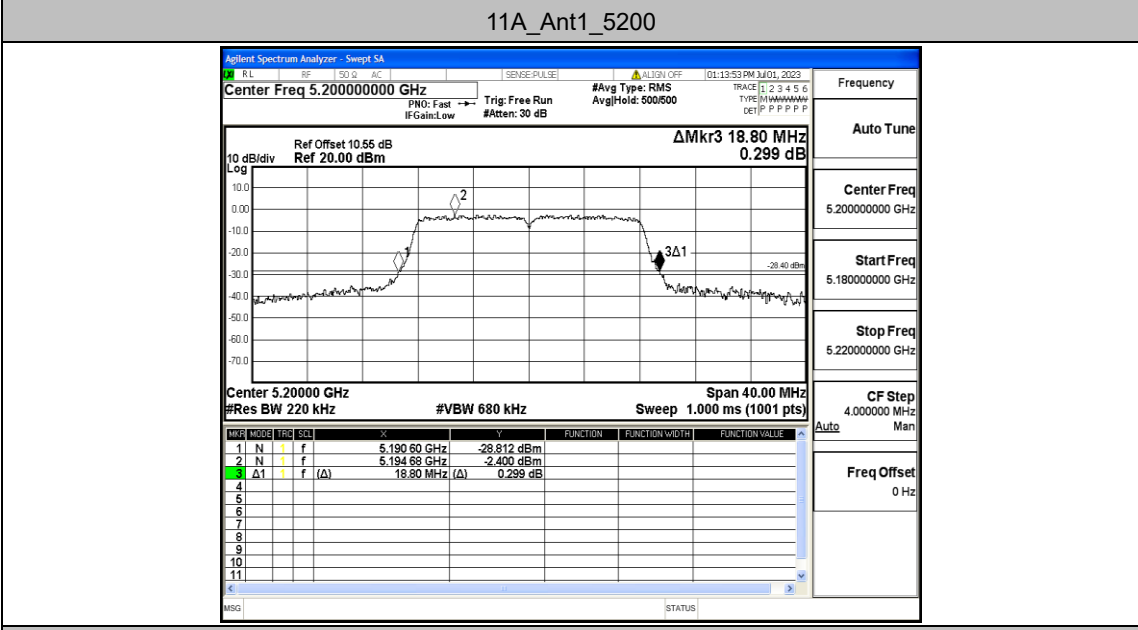
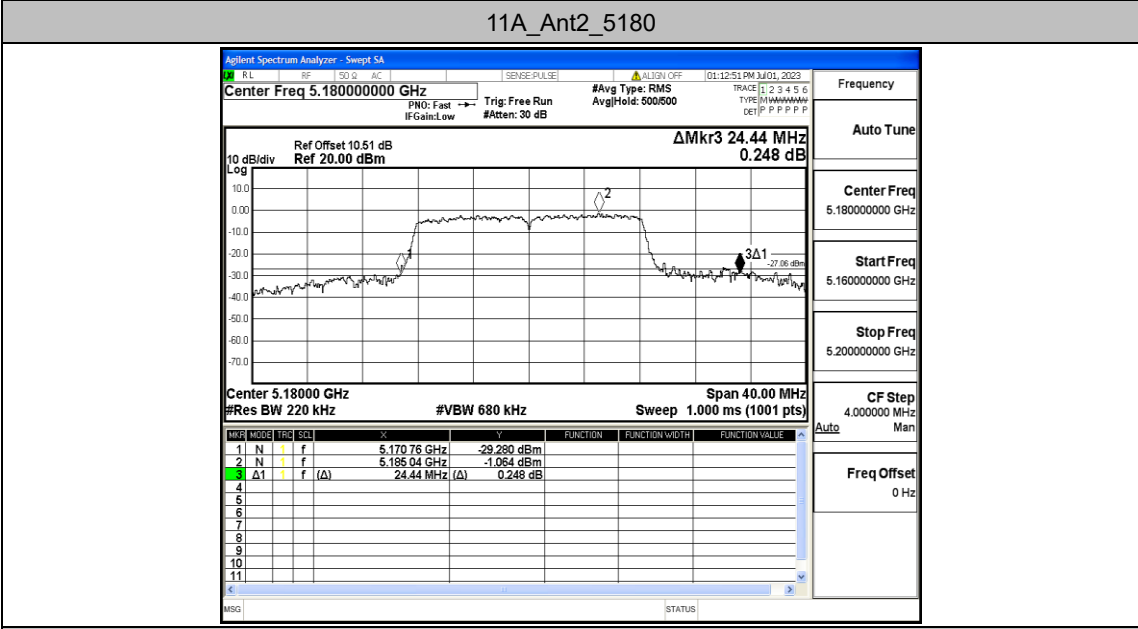
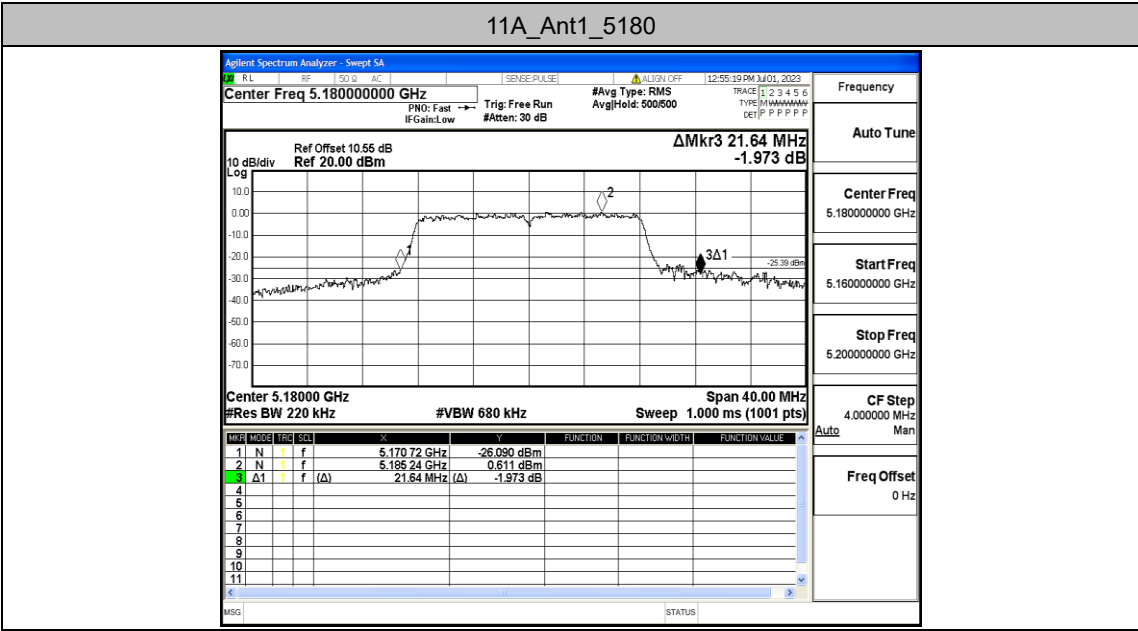
Appendix A1: Emission Bandwidth

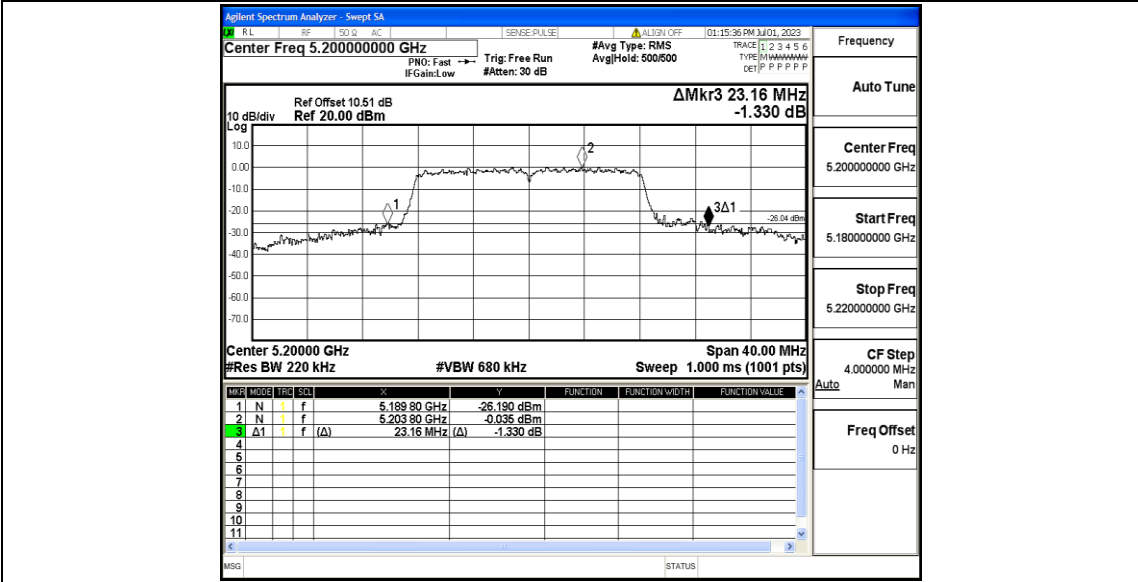
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.640	5170.720	5192.360	---	---
	Ant2	5180	24.440	5170.760	5195.200	---	---
	Ant1	5200	18.800	5190.600	5209.400	---	---
	Ant2	5200	23.160	5189.800	5212.960	---	---
	Ant1	5240	18.640	5230.760	5249.400	---	---
	Ant2	5240	18.800	5230.840	5249.640	---	---
11N20MIMO	Ant1	5180	19.200	5170.360	5189.560	---	---
	Ant2	5180	19.200	5170.440	5189.640	---	---
	Ant1	5200	19.160	5190.400	5209.560	---	---
	Ant2	5200	19.160	5190.440	5209.600	---	---
	Ant1	5240	19.360	5230.280	5249.640	---	---
	Ant2	5240	19.360	5230.320	5249.680	---	---
11N40MIMO	Ant1	5190	40.320	5170.240	5210.560	---	---
	Ant2	5190	40.160	5170.080	5210.240	---	---
	Ant1	5230	40.320	5210.080	5250.400	---	---
	Ant2	5230	40.160	5210.240	5250.400	---	---
11AC20MIMO	Ant1	5180	19.400	5170.360	5189.760	---	---
	Ant2	5180	19.320	5170.440	5189.760	---	---
	Ant1	5200	19.400	5190.320	5209.720	---	---
	Ant2	5200	19.320	5190.400	5209.720	---	---
	Ant1	5240	19.440	5230.360	5249.800	---	---
	Ant2	5240	19.440	5230.280	5249.720	---	---
11AC40MIMO	Ant1	5190	40.160	5169.920	5210.080	---	---
	Ant2	5190	40.320	5169.920	5210.240	---	---
	Ant1	5230	40.640	5209.760	5250.400	---	---

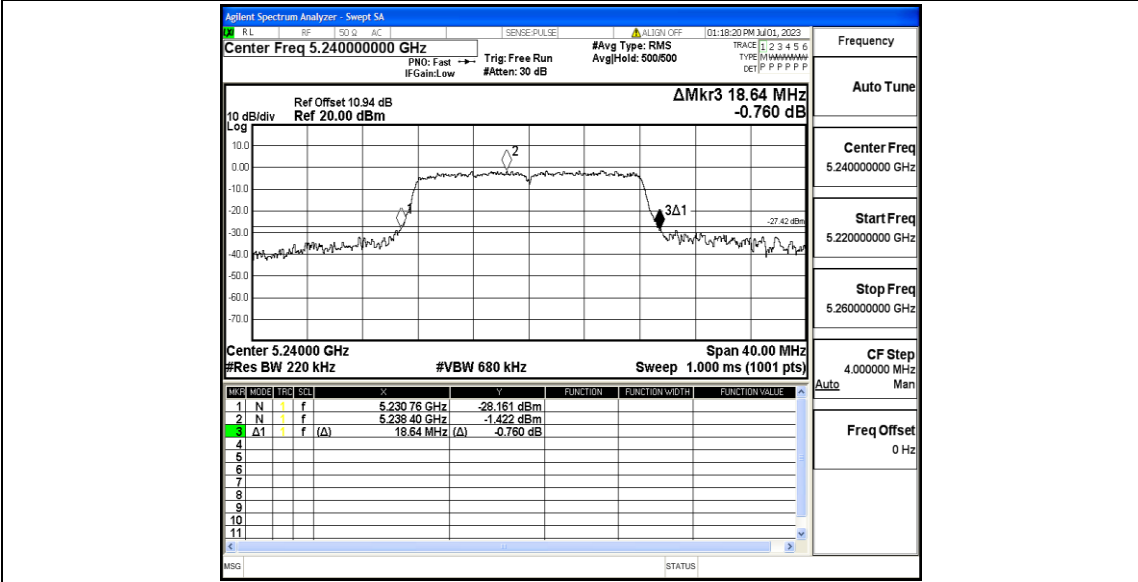
	Ant2	5230	40.320	5209.920	5250.240	---	---
11AC80MIMO	Ant1	5210	81.600	5169.520	5251.120	---	---
	Ant2	5210	81.760	5169.360	5251.120	---	---

Test Graphs

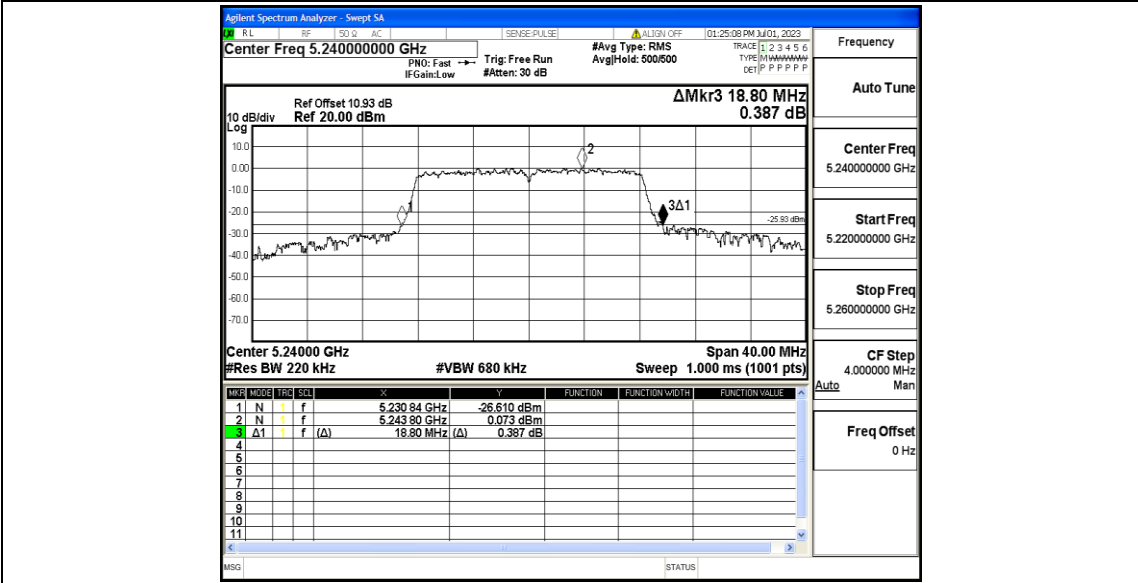




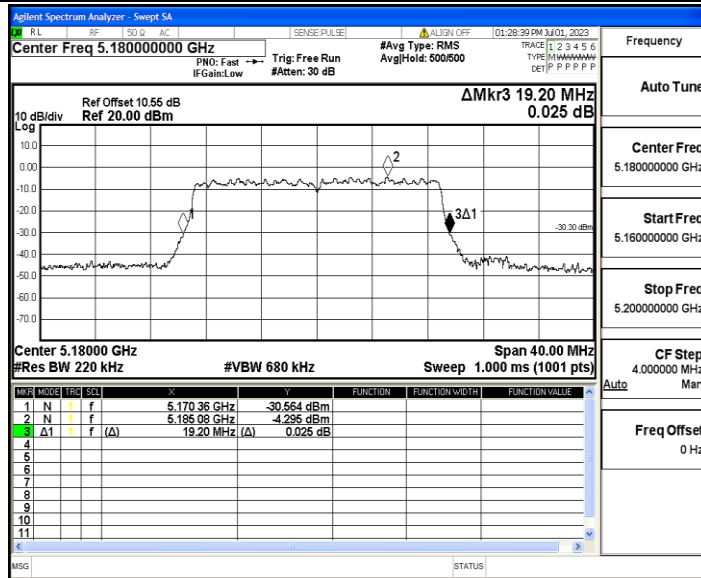
11A_Ant1_5240



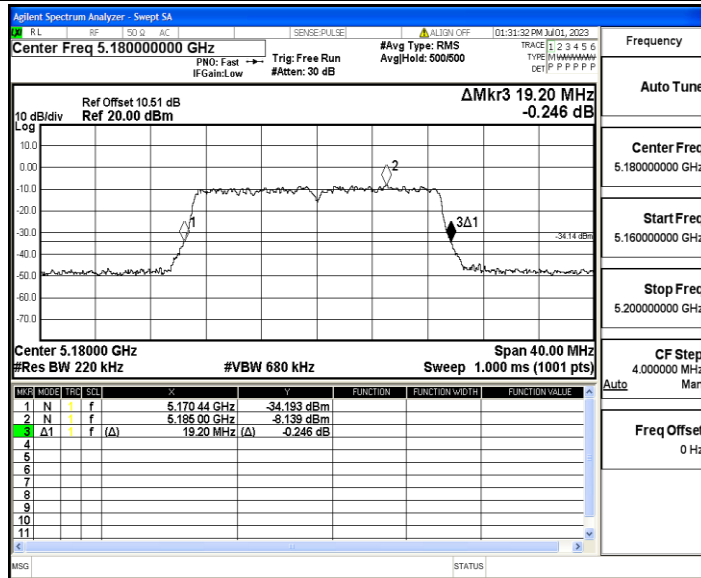
11A_Ant2_5240



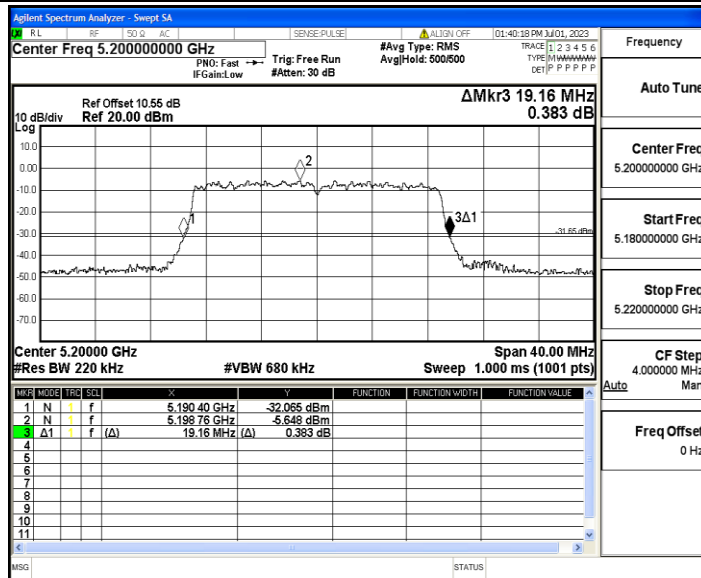
11N20MIMO_Ant1_5180



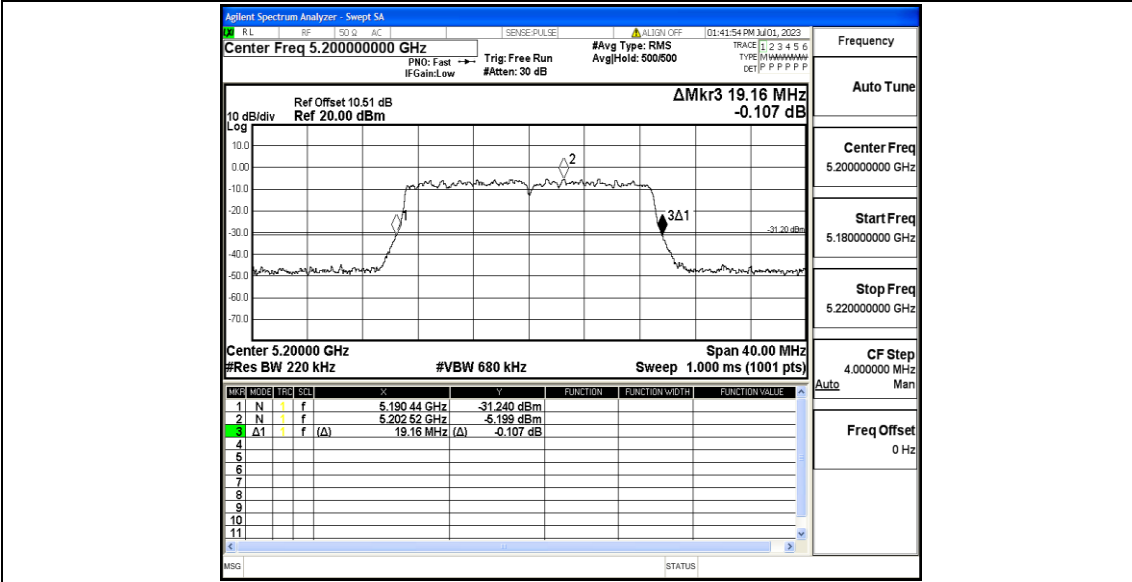
11N20MIMO_Ant2_5180



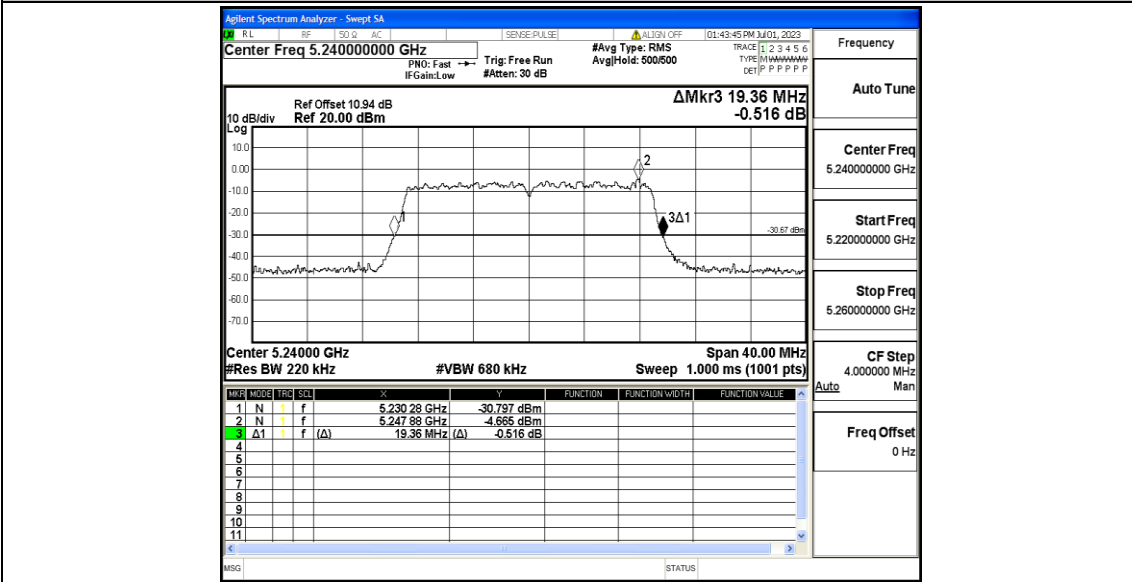
11N20MIMO_Ant1_5200



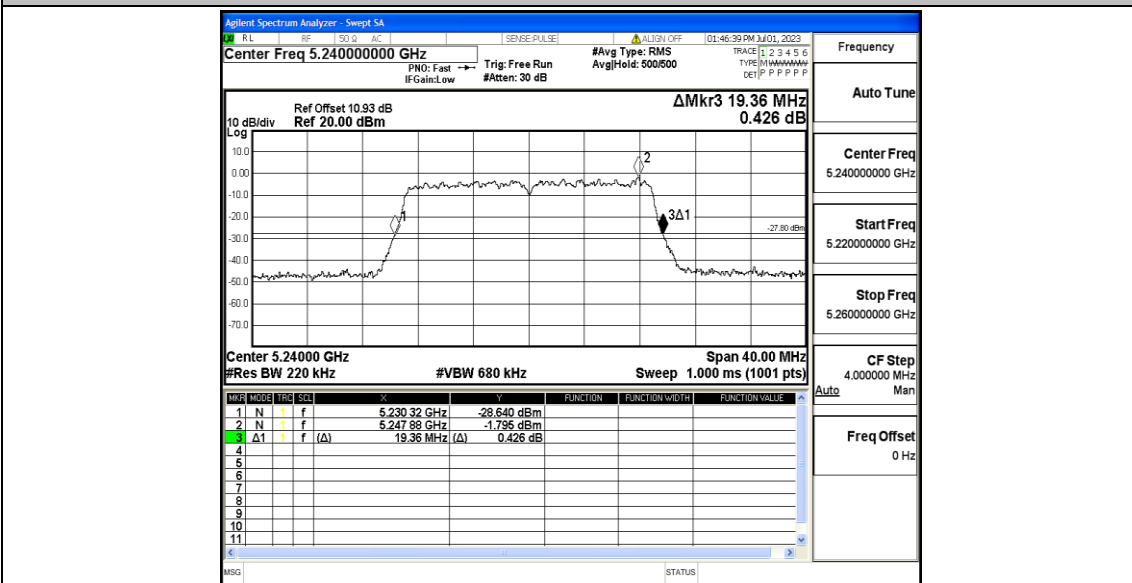
11N20MIMO_Ant2_5200



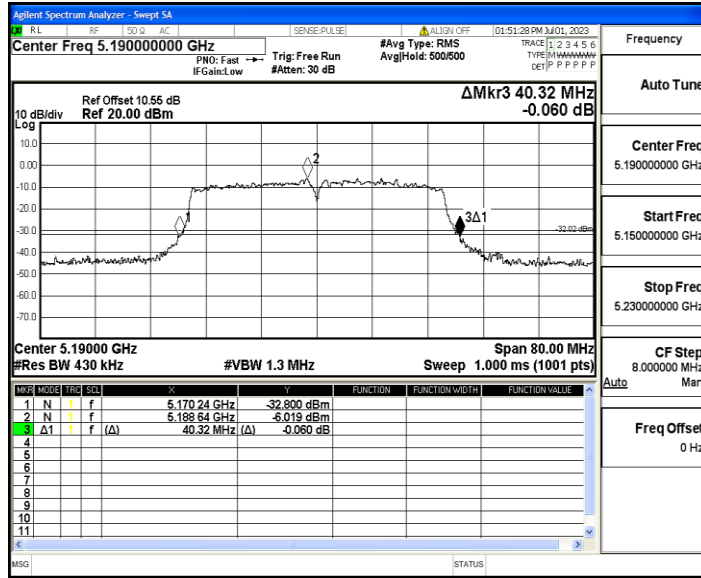
11N20MIMO_Ant1_5240



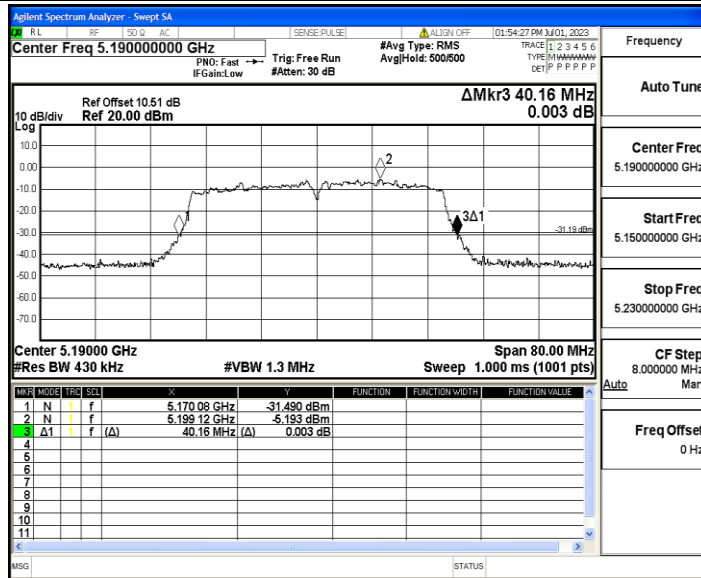
11N20MIMO_Ant2_5240



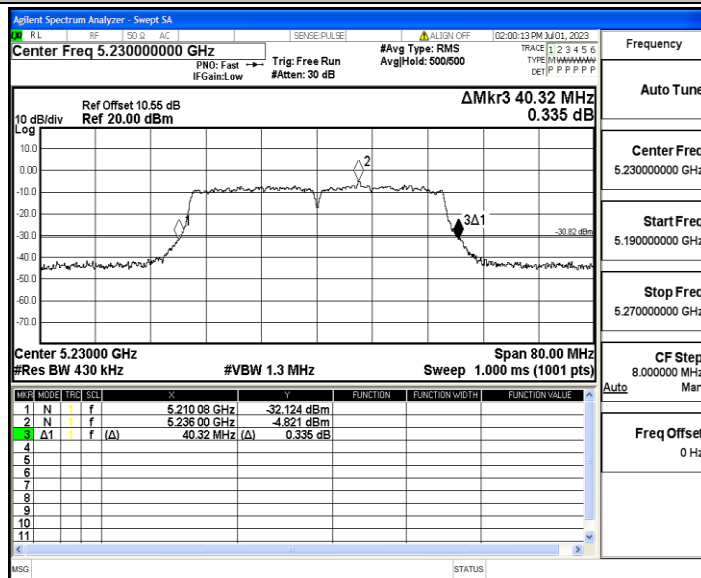
11N40MIMO_Ant1_5190



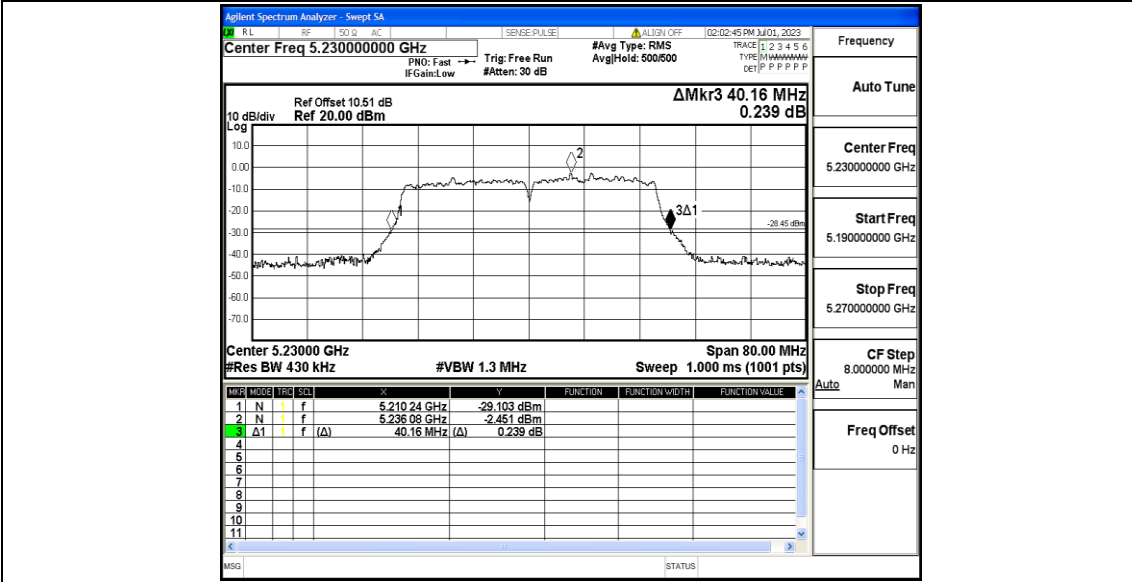
11N40MIMO_Ant2_5190



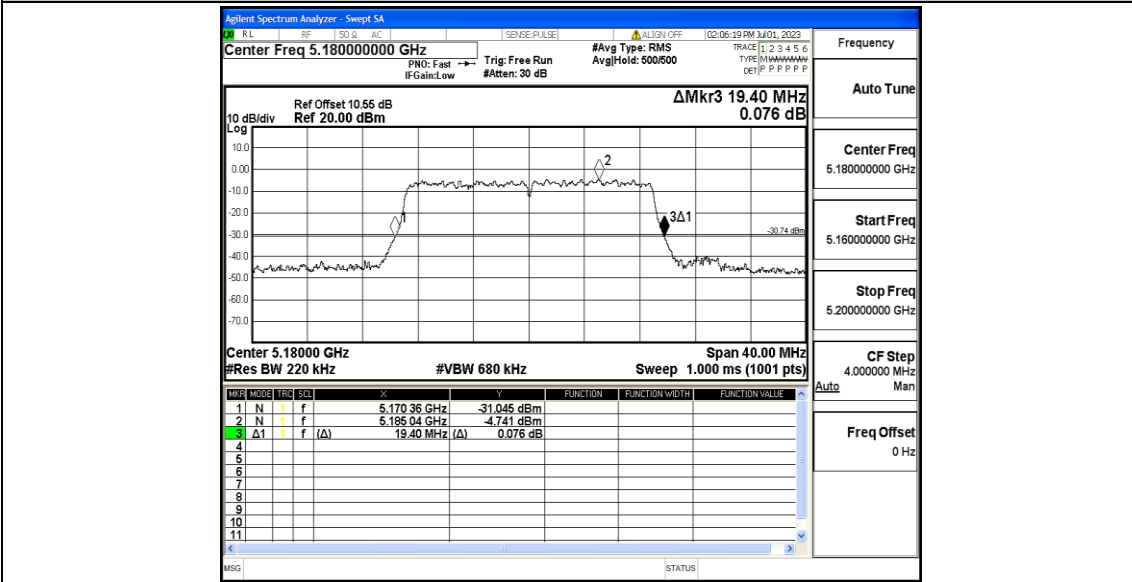
11N40MIMO_Ant1_5230



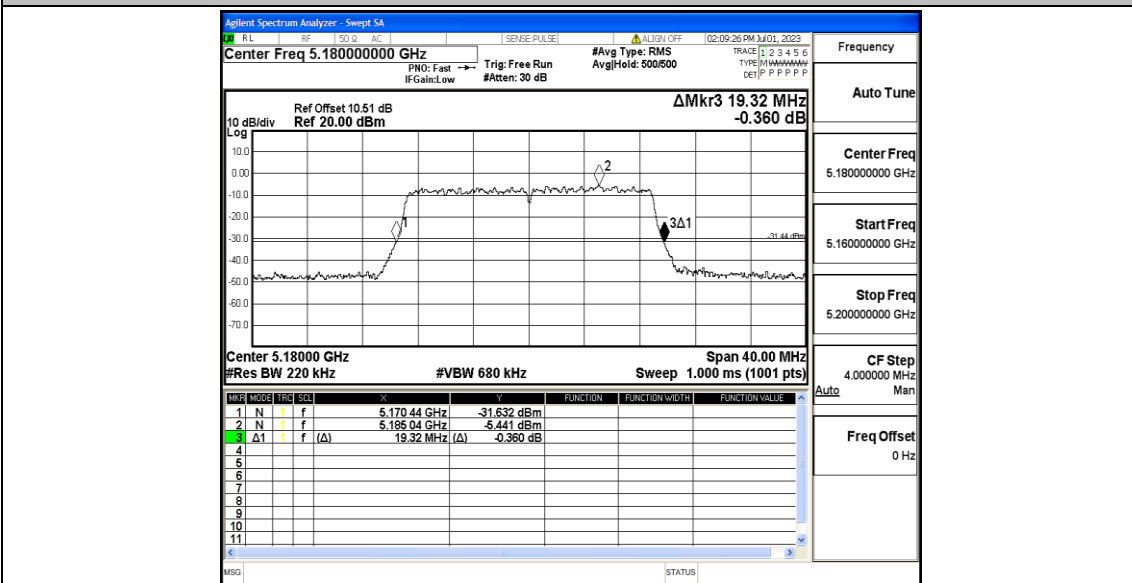
11N40MIMO_Ant2_5230



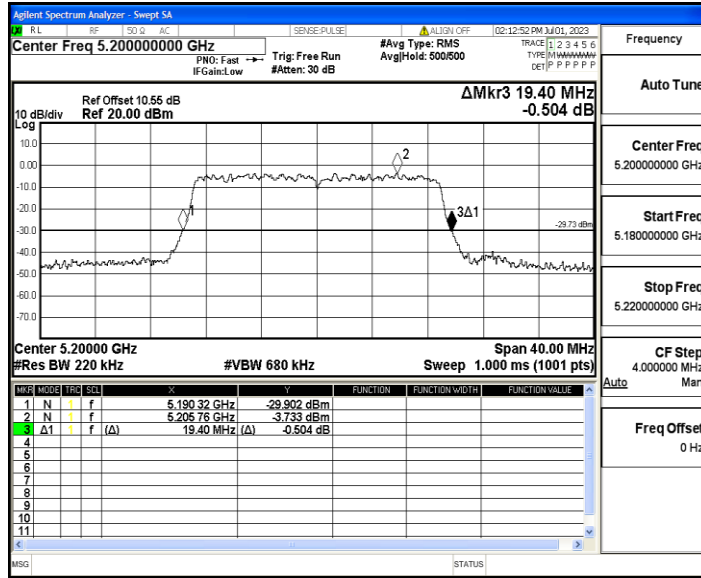
11AC20MIMO_Ant1_5180



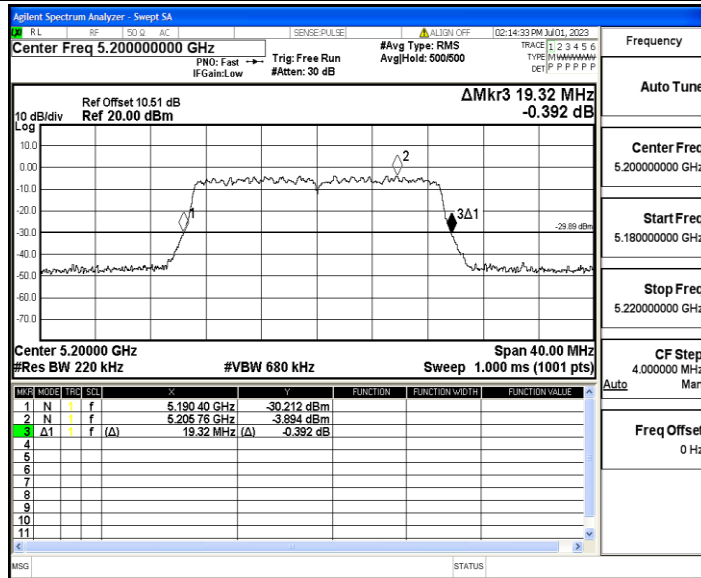
11AC20MIMO_Ant2_5180



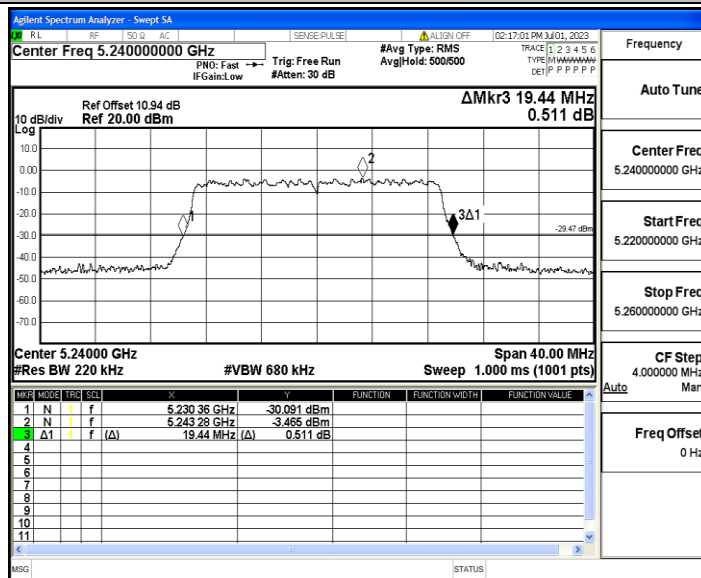
11AC20MIMO_Ant1_5200



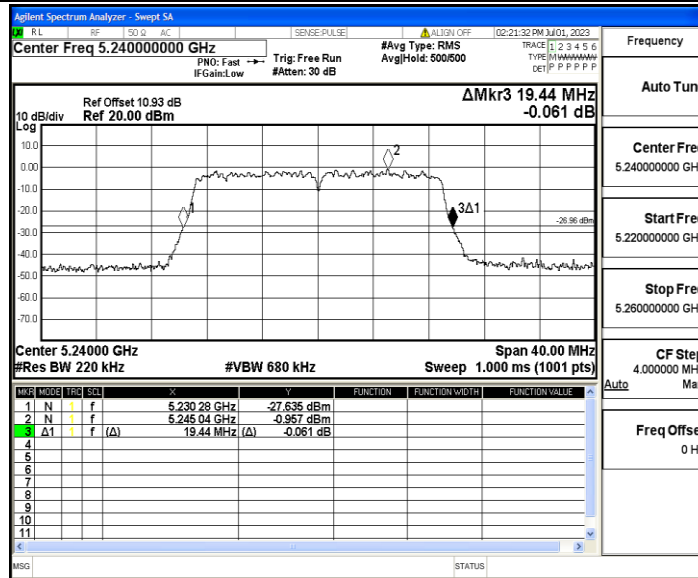
11AC20MIMO_Ant2_5200



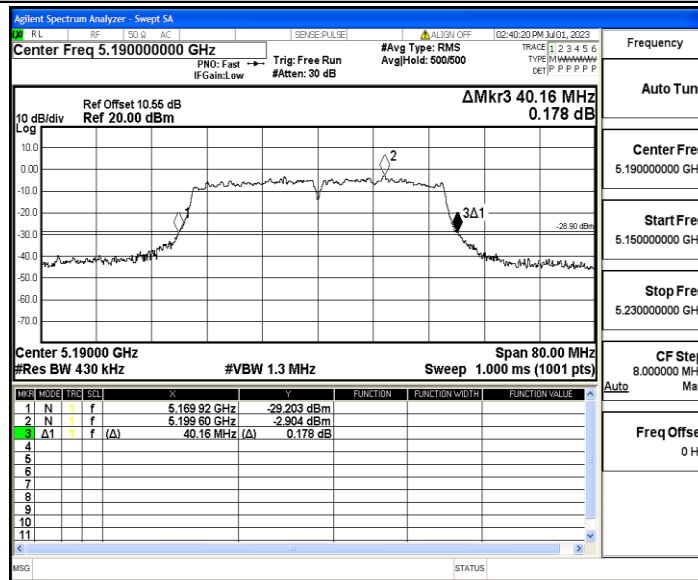
11AC20MIMO_Ant1_5240



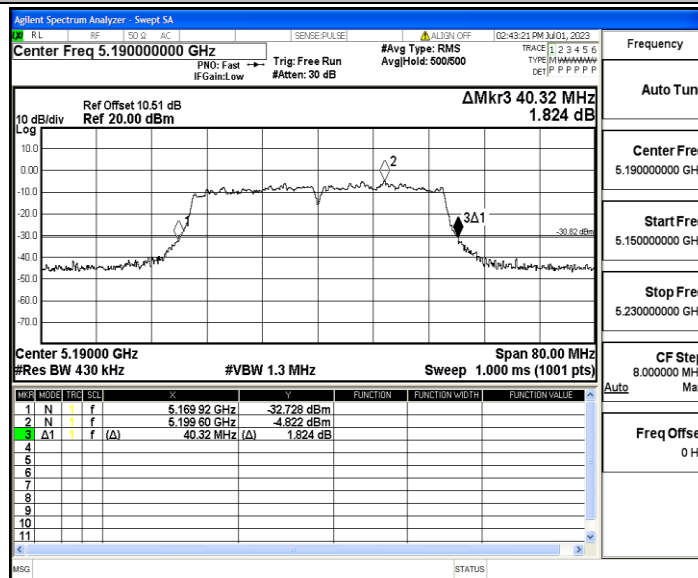
11AC20MIMO_Ant2_5240



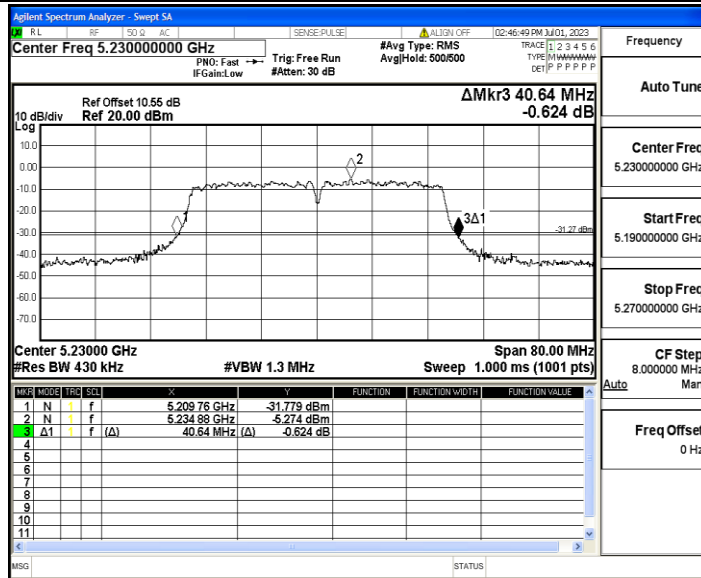
11AC40MIMO_Ant1_5190



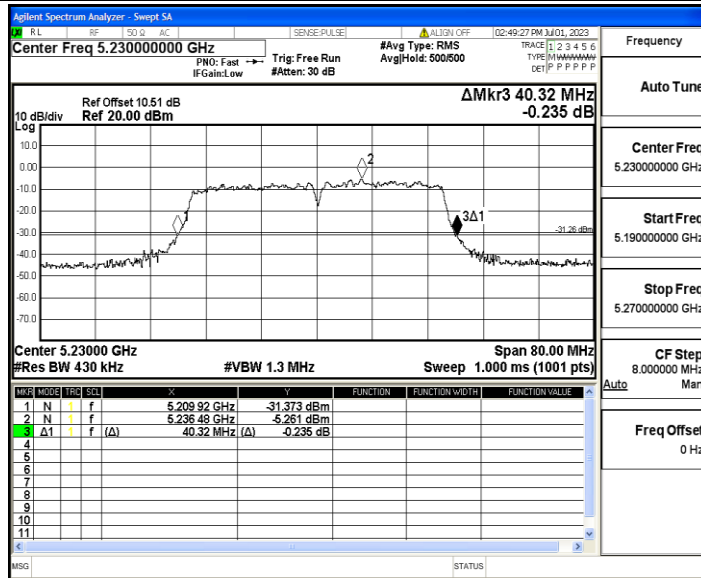
11AC40MIMO_Ant2_5190



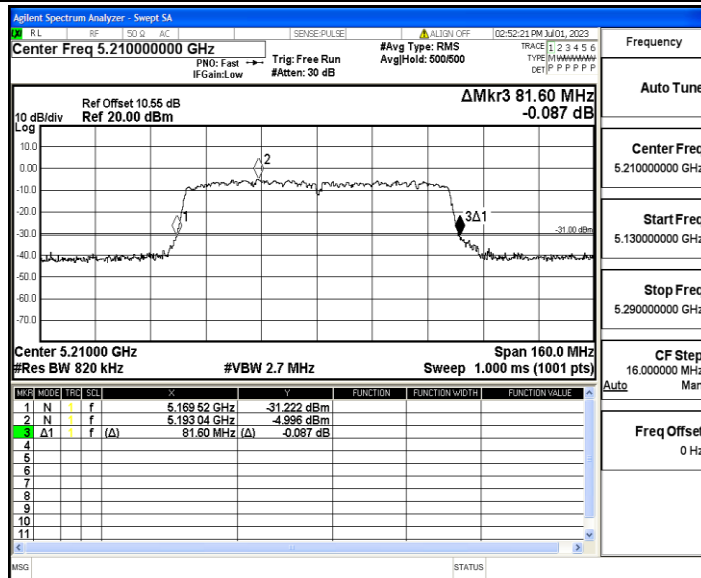
11AC40MIMO_Ant1_5230



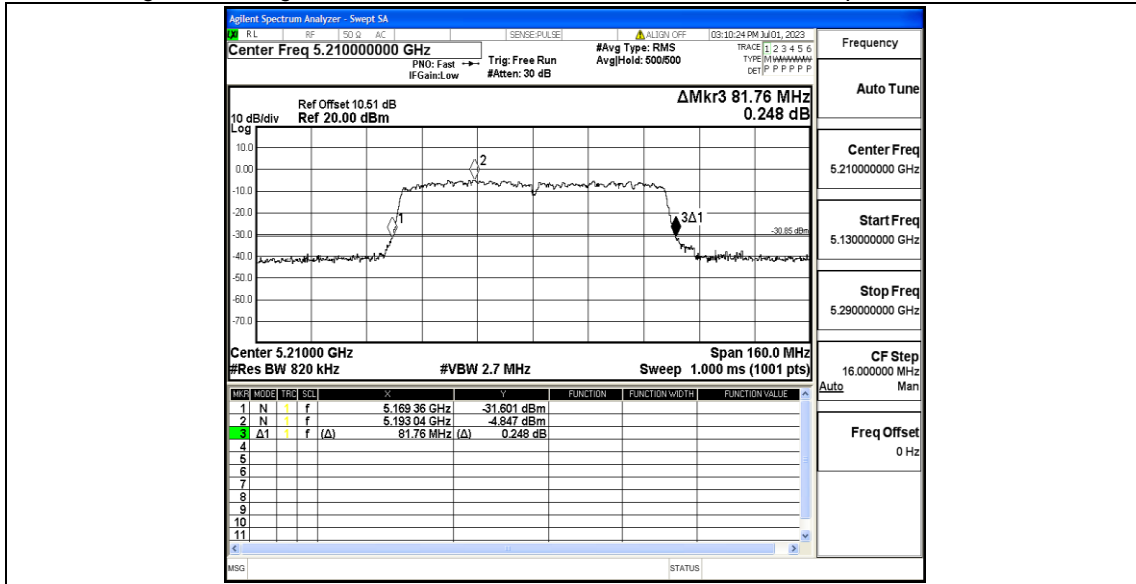
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

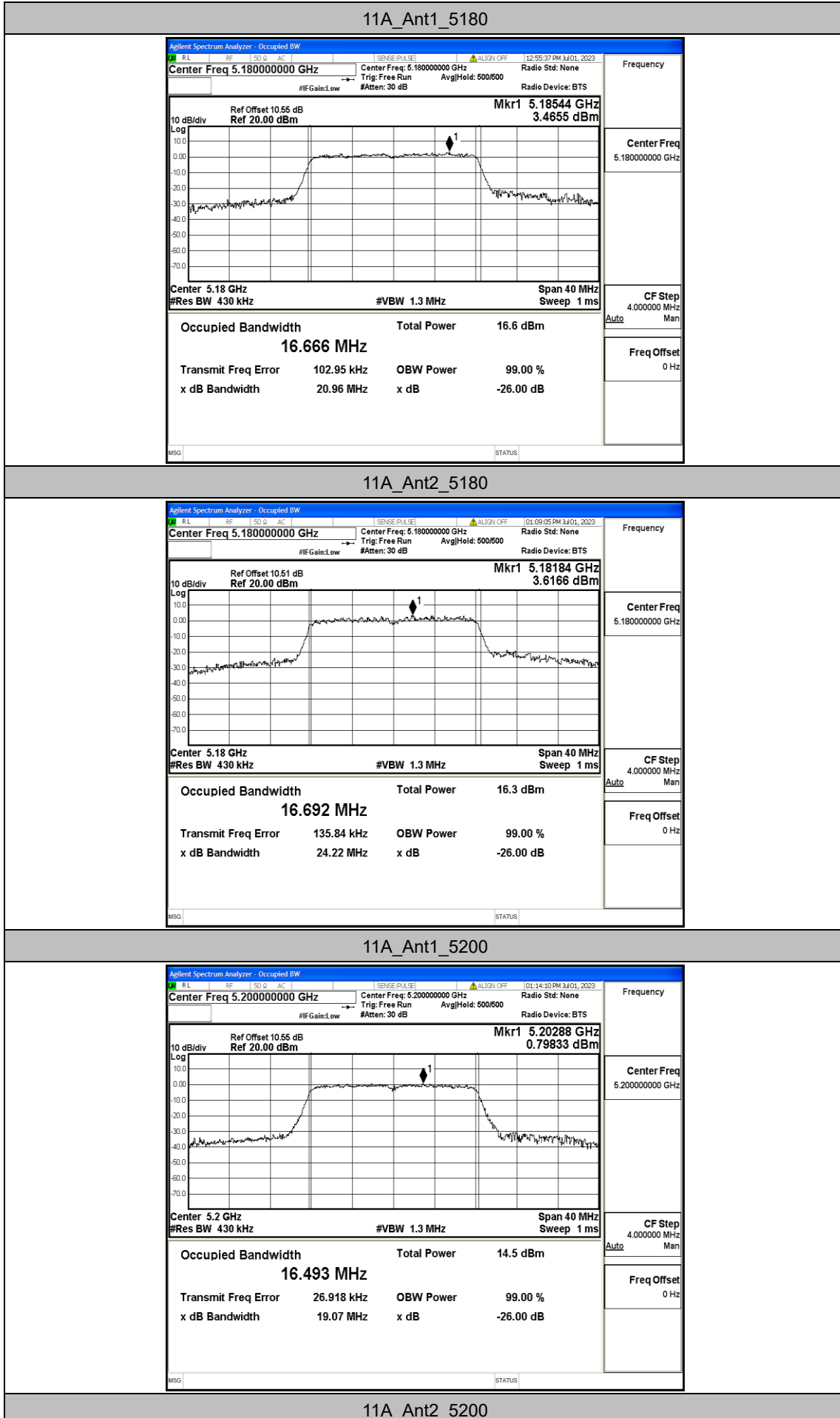


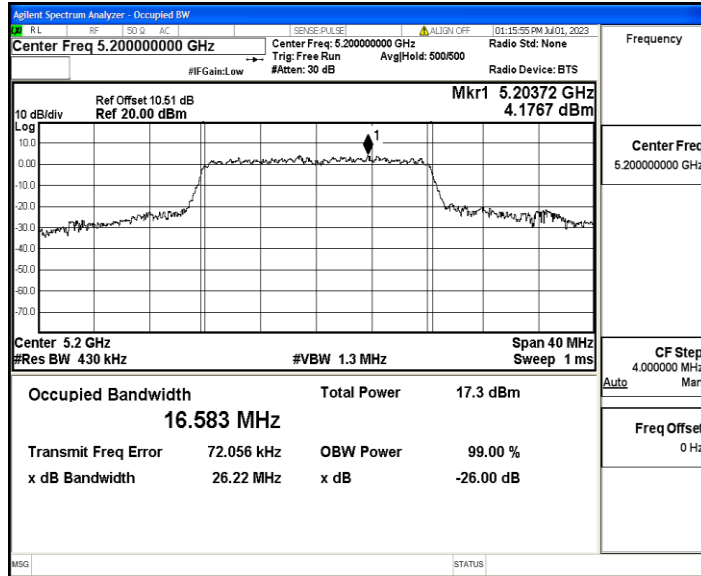
Appendix A2: Occupied channel bandwidth

Test Result

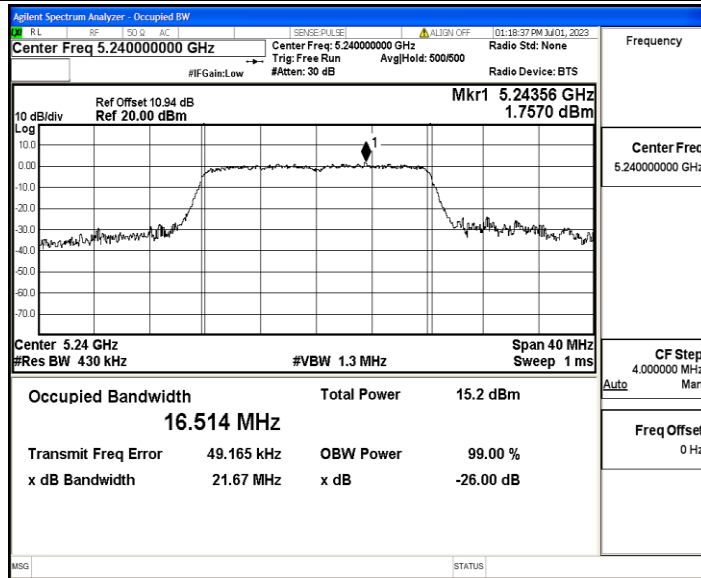
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.666	5171.7700	5188.4360	---	---
	Ant2	5180	16.692	5171.7898	5188.4818	---	---
	Ant1	5200	16.493	5191.7804	5208.2734	---	---
	Ant2	5200	16.583	5191.7806	5208.3636	---	---
	Ant1	5240	16.514	5231.7922	5248.3062	---	---
	Ant2	5240	16.608	5231.7938	5248.4018	---	---
11N20MIMO	Ant1	5180	17.750	5171.1644	5188.9144	---	---
	Ant2	5180	17.654	5171.2094	5188.8634	---	---
	Ant1	5200	17.748	5191.0886	5208.8366	---	---
	Ant2	5200	17.748	5191.1016	5208.8496	---	---
	Ant1	5240	17.749	5231.1369	5248.8859	---	---
	Ant2	5240	17.701	5231.1840	5248.8850	---	---
11N40MIMO	Ant1	5190	36.249	5171.9951	5208.2441	---	---
	Ant2	5190	36.246	5172.0417	5208.2877	---	---
	Ant1	5230	36.419	5211.9004	5248.3194	---	---
	Ant2	5230	36.416	5211.9416	5248.3576	---	---
11AC20MIMO	Ant1	5180	17.739	5171.1911	5188.9301	---	---
	Ant2	5180	17.729	5171.2169	5188.9459	---	---
	Ant1	5200	17.721	5191.1475	5208.8685	---	---
	Ant2	5200	17.712	5191.1692	5208.8812	---	---
	Ant1	5240	17.748	5231.1801	5248.9281	---	---
	Ant2	5240	17.734	5231.1757	5248.9097	---	---
11AC40MIMO	Ant1	5190	36.207	5172.0016	5208.2086	---	---
	Ant2	5190	36.215	5172.0652	5208.2802	---	---
	Ant1	5230	36.287	5211.9244	5248.2114	---	---
	Ant2	5230	36.344	5211.9713	5248.3153	---	---
11AC80MIMO	Ant1	5210	75.758	5172.2745	5248.0325	---	---
	Ant2	5210	75.724	5172.2825	5248.0065	---	---

Test Graphs

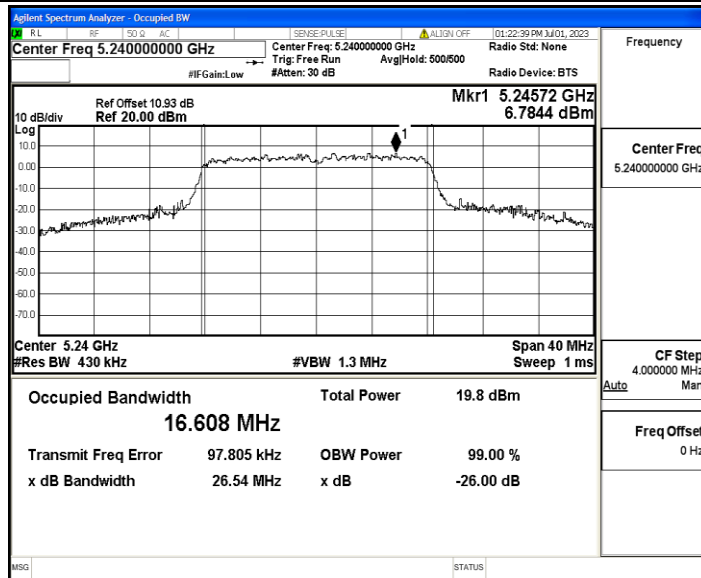




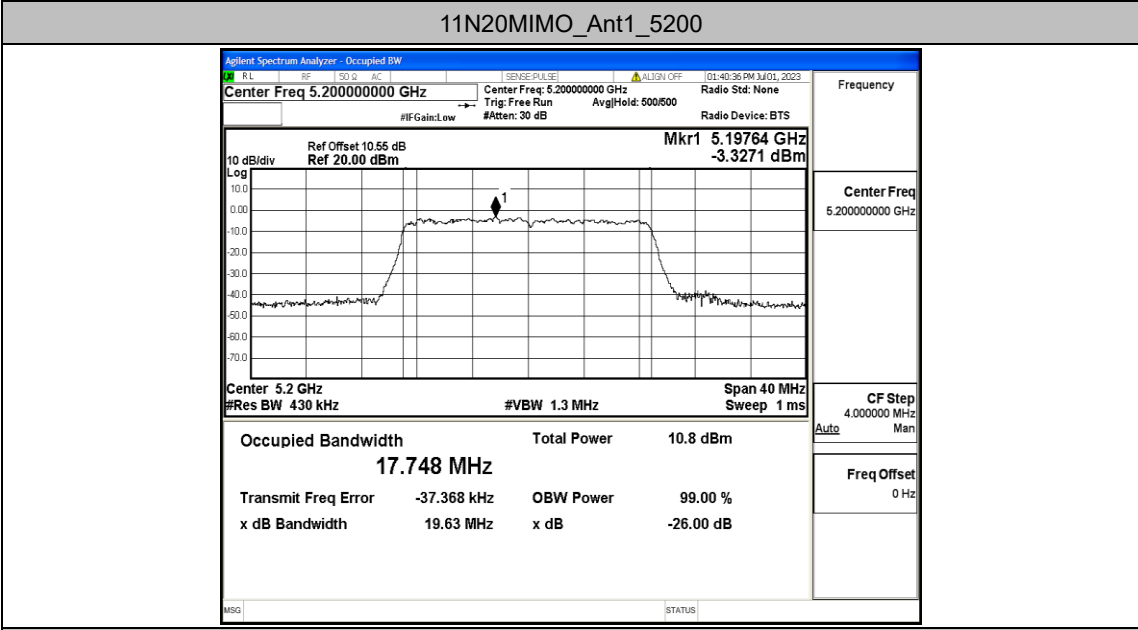
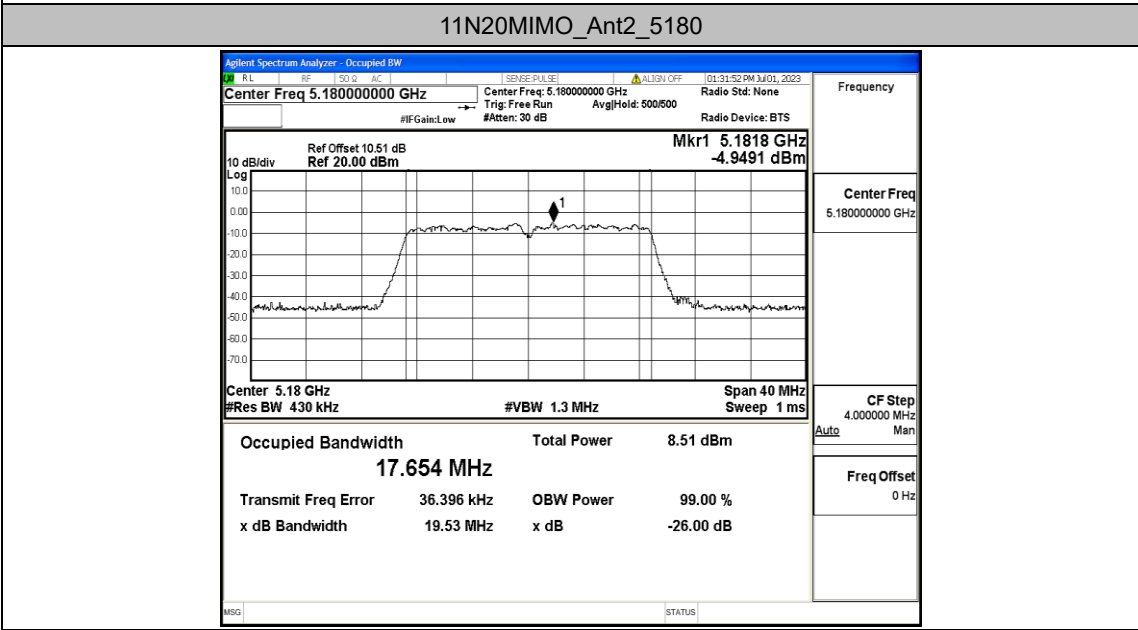
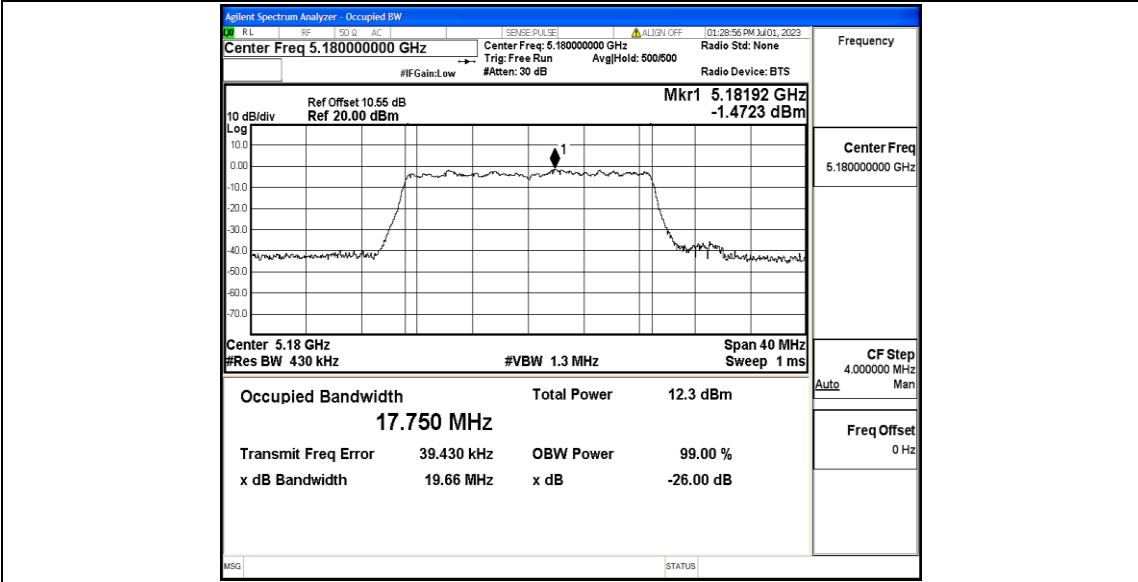
11A_Ant1_5240

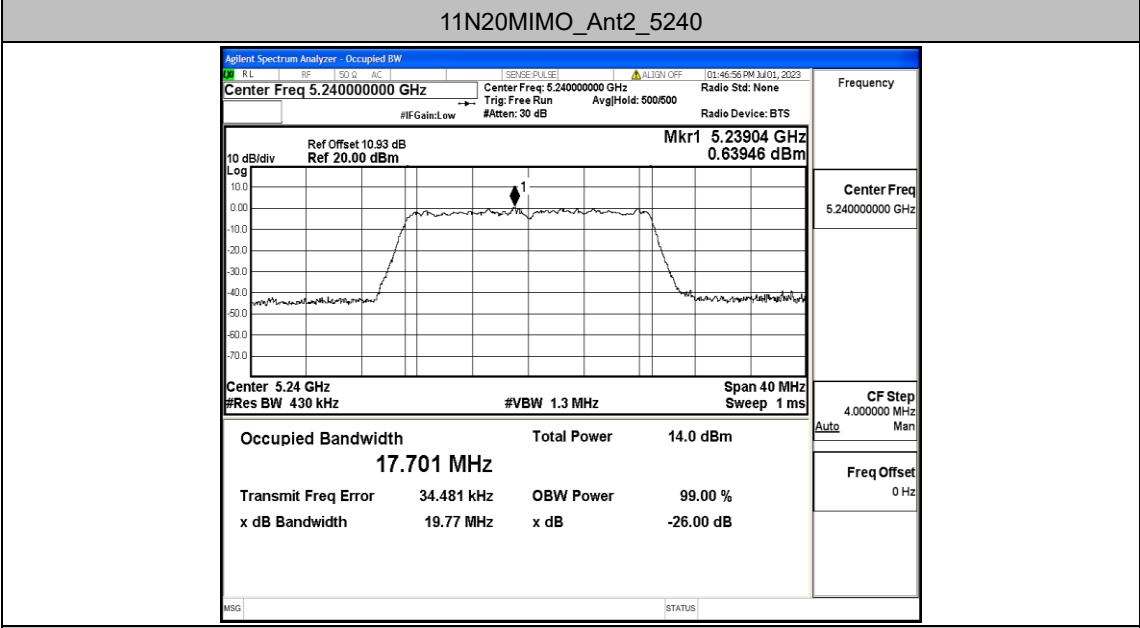
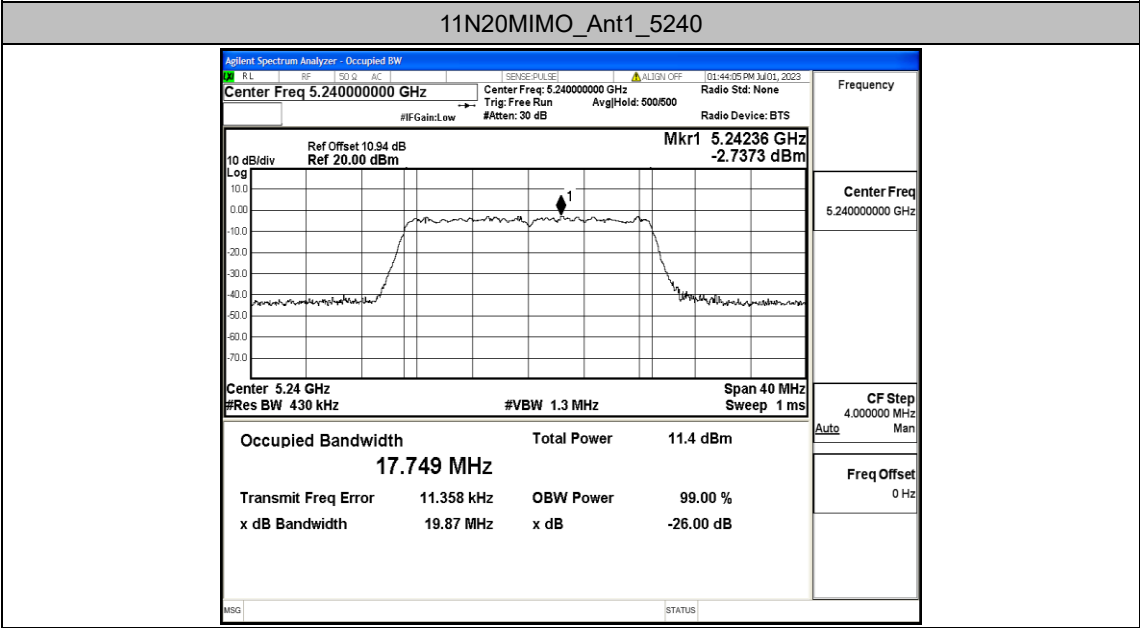
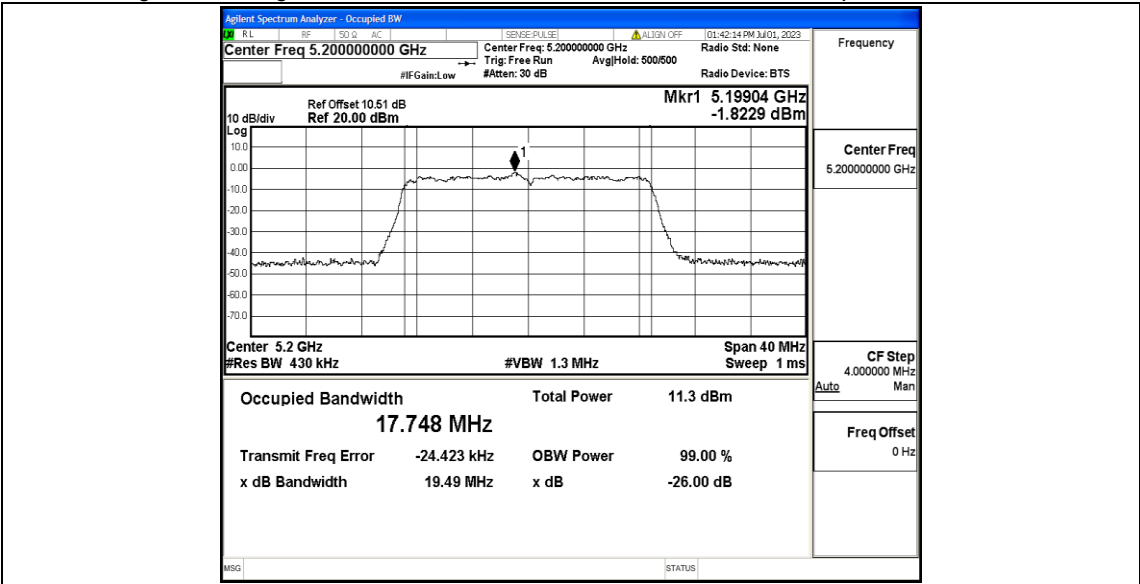


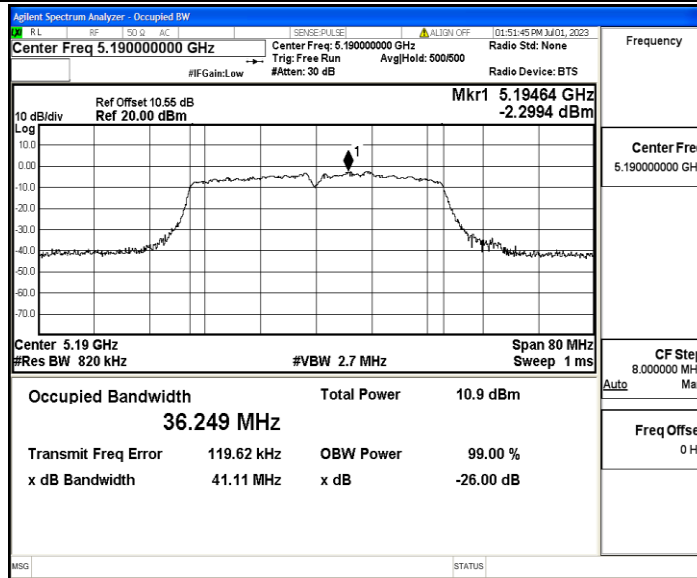
11A_Ant2_5240



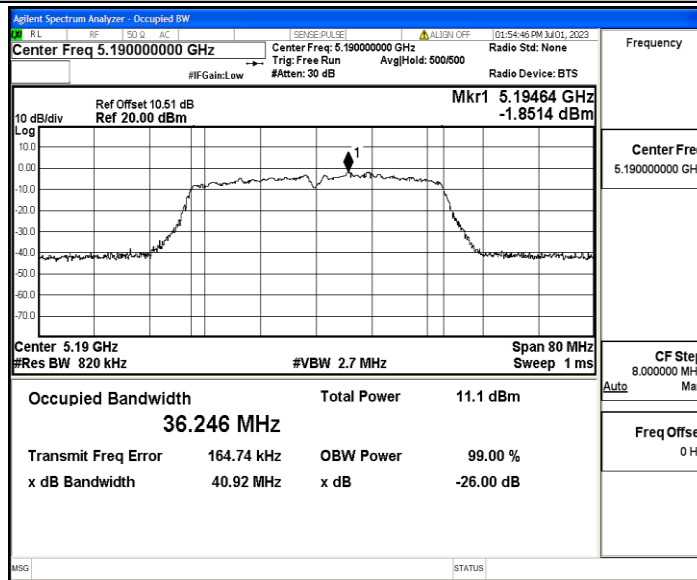
11N20MIMO_Ant1_5180



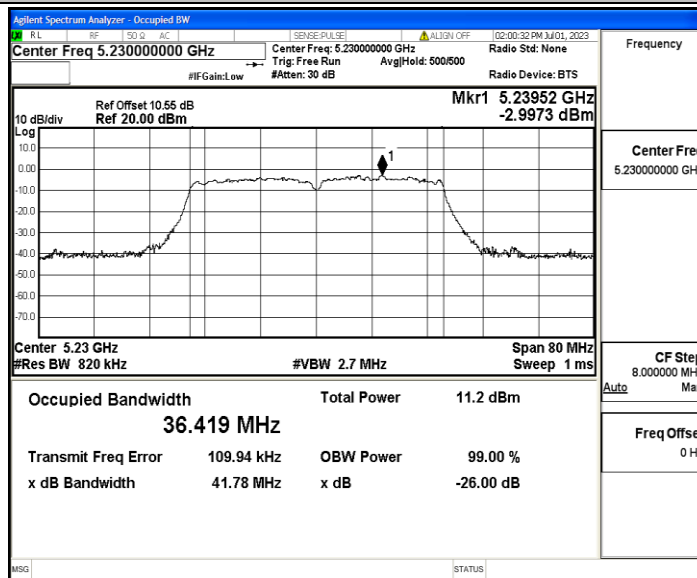




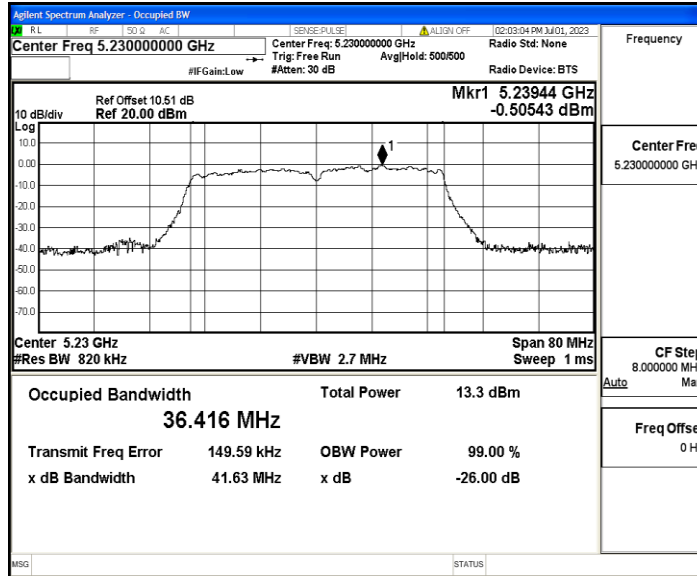
11N40MIMO_Ant2_5190



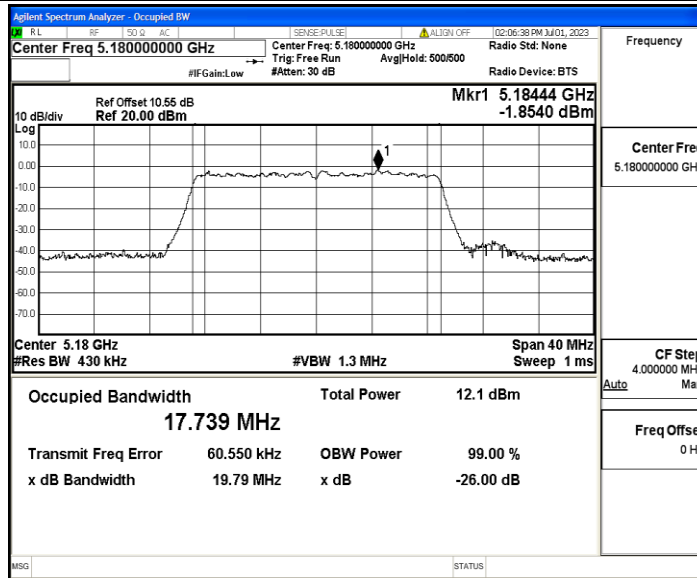
11N40MIMO_Ant1_5230



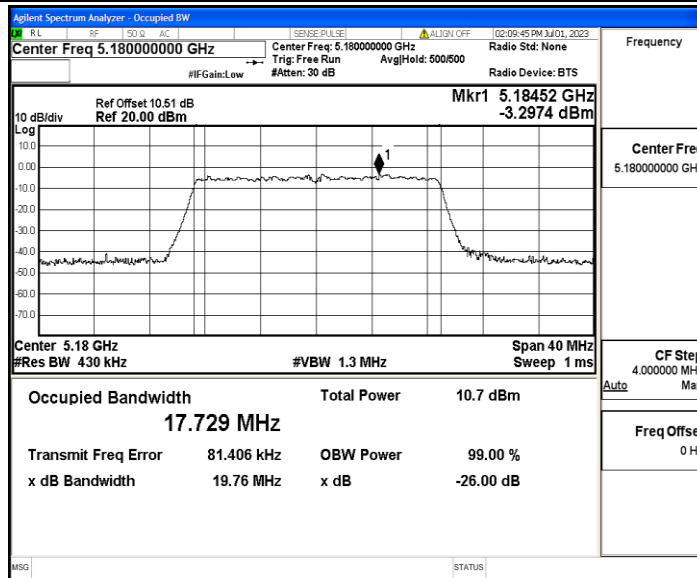
11N40MIMO_Ant2_5230



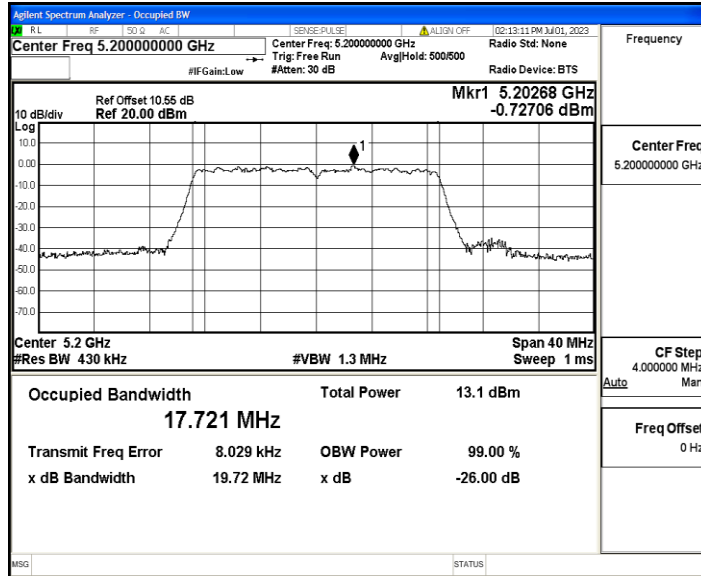
11AC20MIMO_Ant1_5180



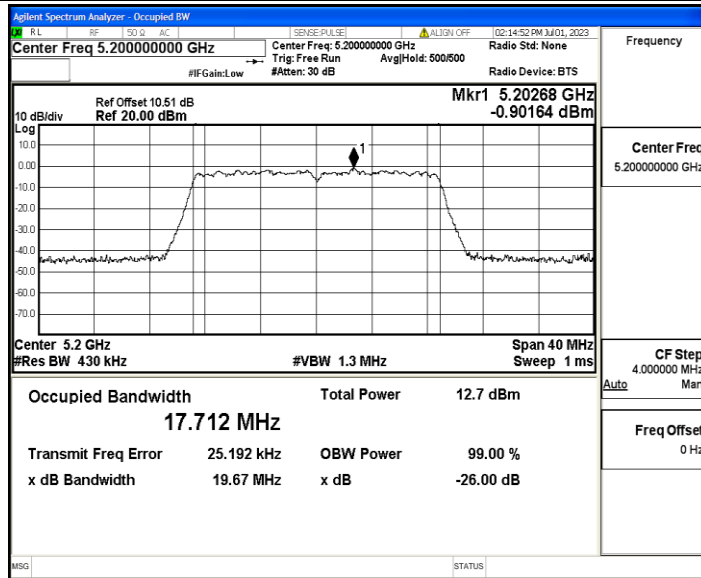
11AC20MIMO_Ant2_5180



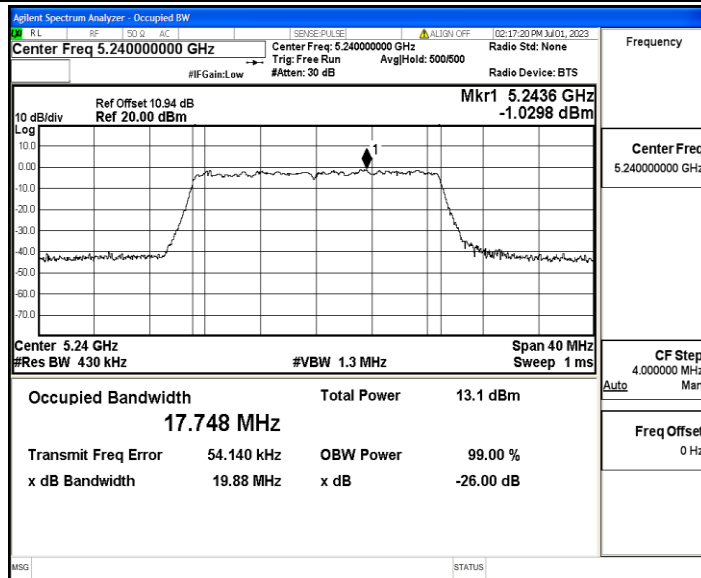
11AC20MIMO_Ant1_5200



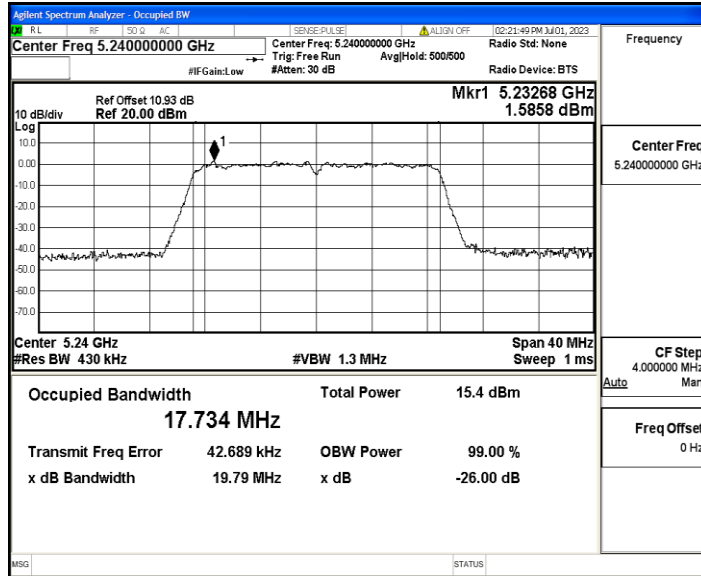
11AC20MIMO_Ant2_5200



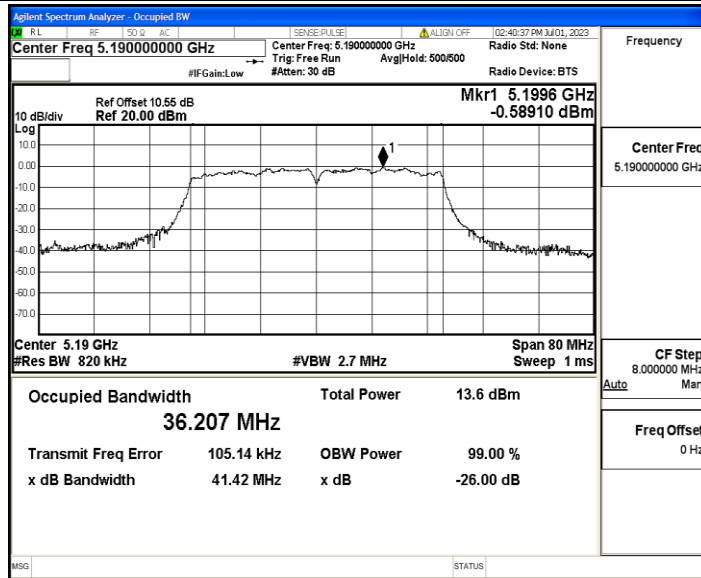
11AC20MIMO_Ant1_5240



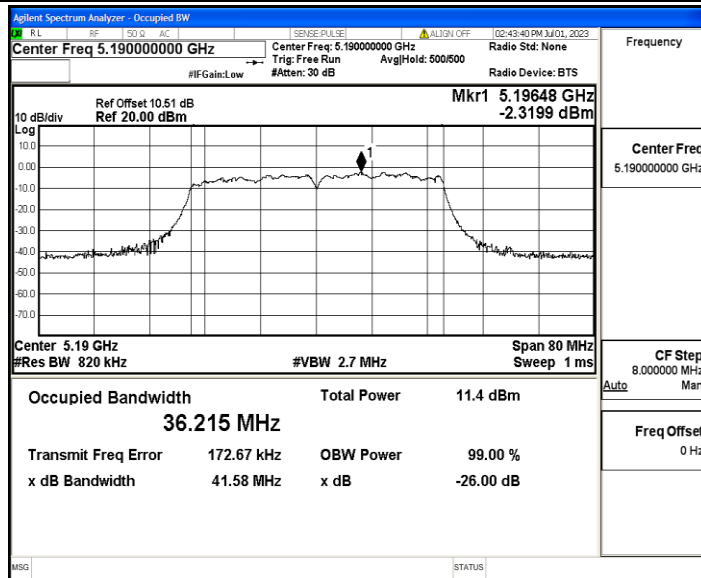
11AC20MIMO_Ant2_5240



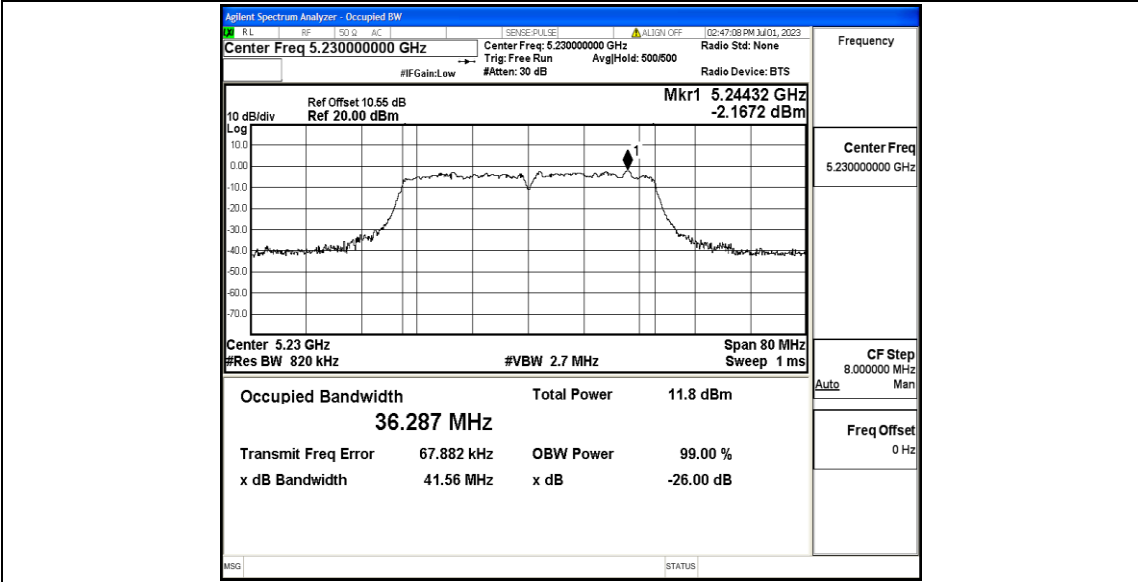
11AC40MIMO_Ant1_5190



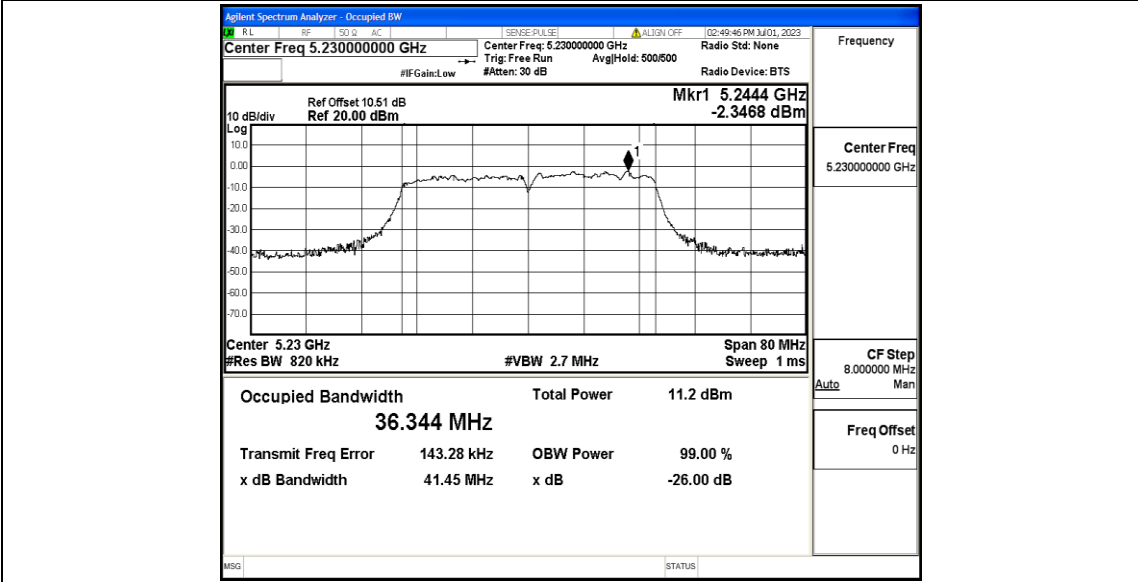
11AC40MIMO_Ant2_5190



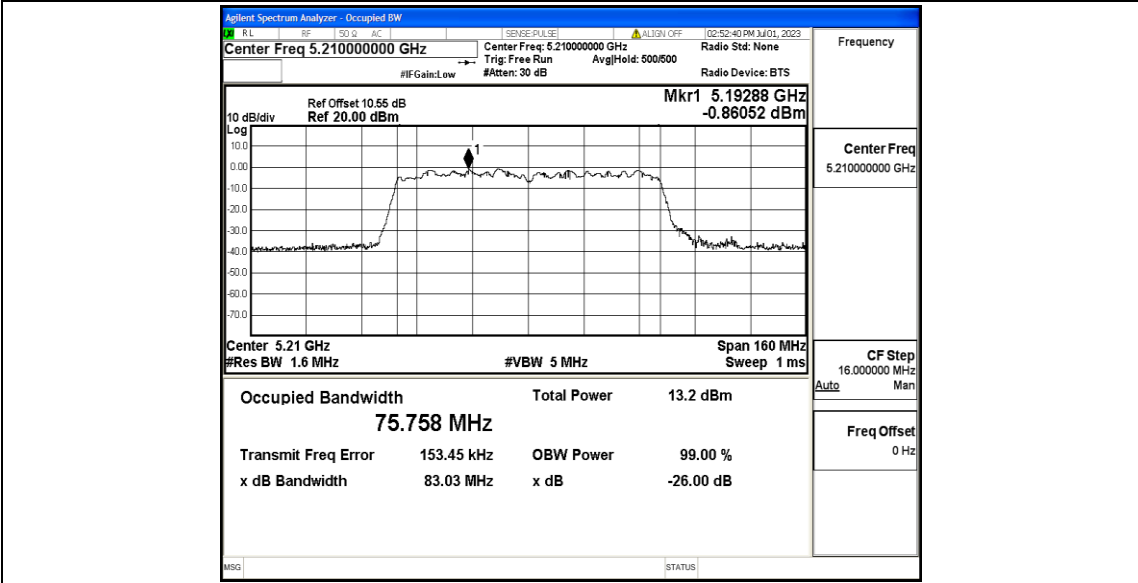
11AC40MIMO_Ant1_5230



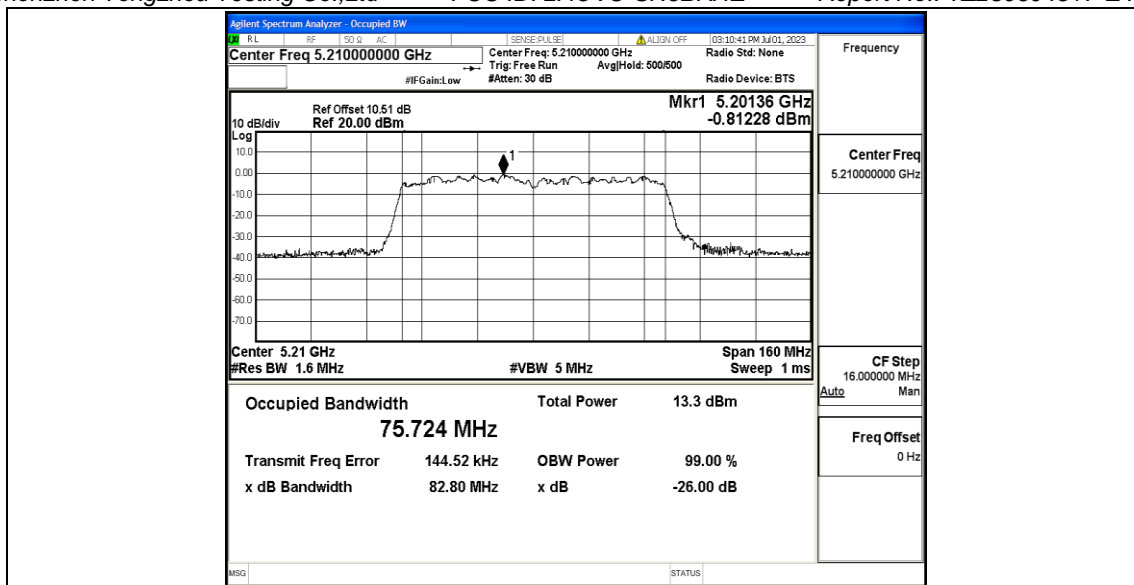
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.00	≤23.98	PASS
	Ant2	5180	8.25	≤23.98	PASS
	Ant1	5200	7.91	≤23.98	PASS
	Ant2	5200	10.22	≤23.98	PASS
	Ant1	5240	8.58	≤23.98	PASS
	Ant2	5240	10.18	≤23.98	PASS
11N20MIMO	Ant1	5180	3.52	≤23.98	PASS
	Ant2	5180	3.34	≤23.98	PASS
	total	5180	6.44	≤23.98	PASS
	Ant1	5200	4.69	≤23.98	PASS
	Ant2	5200	5.40	≤23.98	PASS
	total	5200	8.07	≤23.98	PASS
	Ant1	5240	5.28	≤23.98	PASS
	Ant2	5240	7.79	≤23.98	PASS
	total	5240	9.72	≤23.98	PASS
11N40MIMO	Ant1	5190	4.52	≤23.98	PASS
	Ant2	5190	4.87	≤23.98	PASS
	total	5190	7.71	≤23.98	PASS
	Ant1	5230	5.17	≤23.98	PASS
	Ant2	5230	7.12	≤23.98	PASS
	total	5230	9.26	≤23.98	PASS
11AC20MIMO	Ant1	5180	5.99	≤23.98	PASS
	Ant2	5180	4.90	≤23.98	PASS
	total	5180	8.49	≤23.98	PASS
	Ant1	5200	7.09	≤23.98	PASS
	Ant2	5200	4.18	≤23.98	PASS
	total	5200	8.88	≤23.98	PASS
	Ant1	5240	6.09	≤23.98	PASS
	Ant2	5240	5.84	≤23.98	PASS
	total	5240	8.98	≤23.98	PASS
11AC40MIMO	Ant1	5190	7.46	≤23.98	PASS
	Ant2	5190	5.19	≤23.98	PASS
	total	5190	9.48	≤23.98	PASS
	Ant1	5230	5.52	≤23.98	PASS
	Ant2	5230	4.97	≤23.98	PASS
	total	5230	8.26	≤23.98	PASS
11AC80MIMO	Ant1	5210	6.61	≤23.98	PASS
	Ant2	5210	6.08	≤23.98	PASS
	total	5210	9.36	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

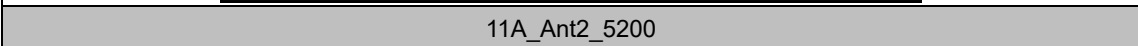
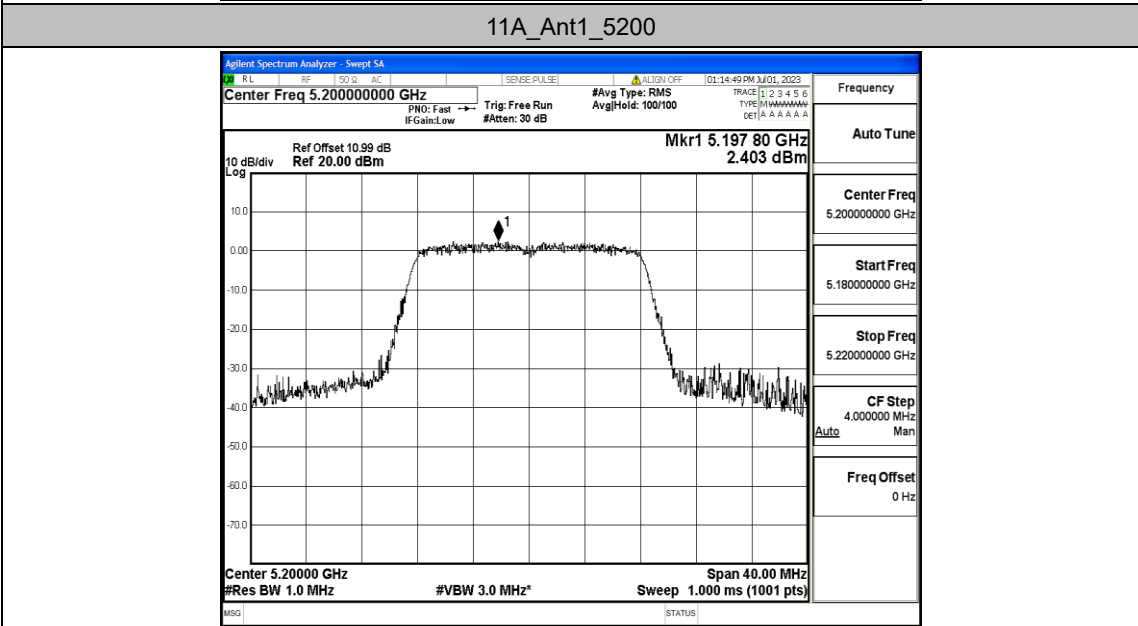
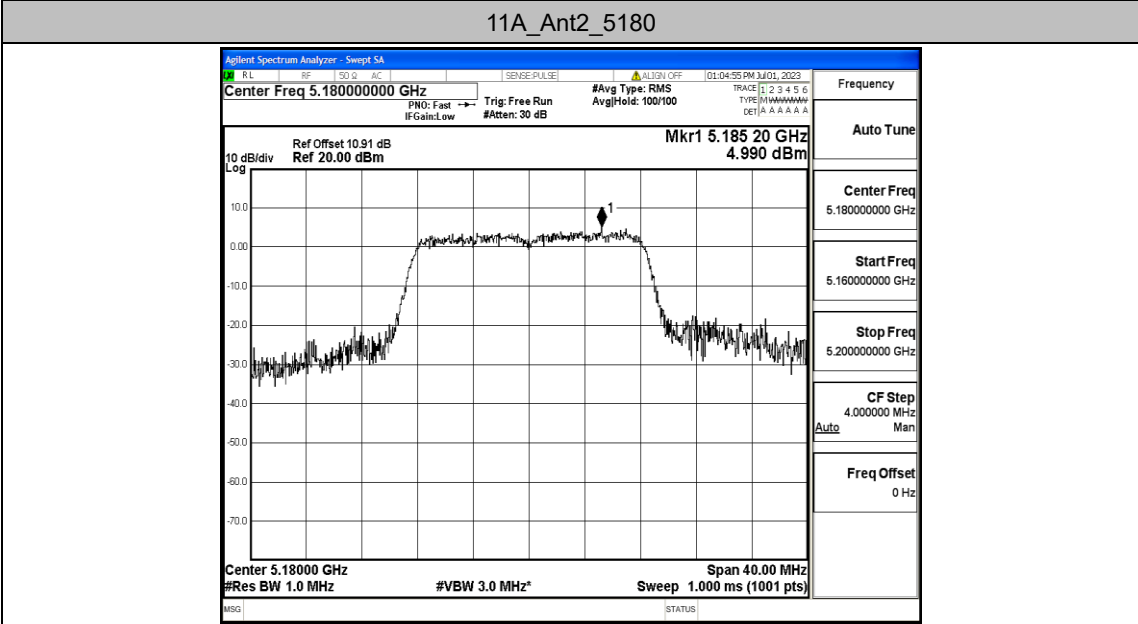
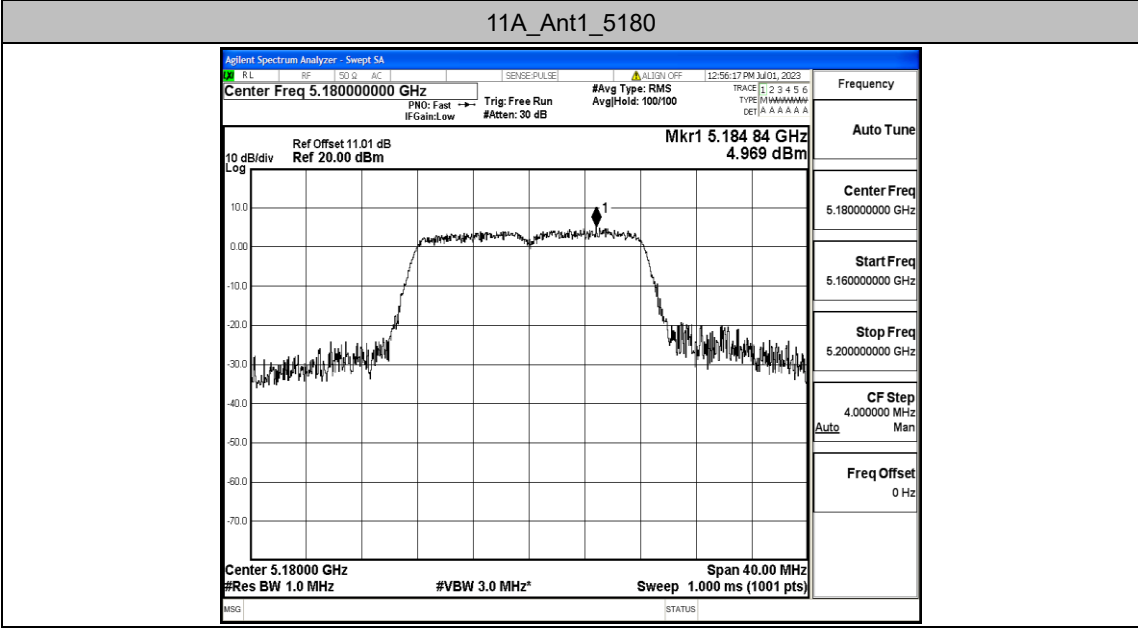
Test Result

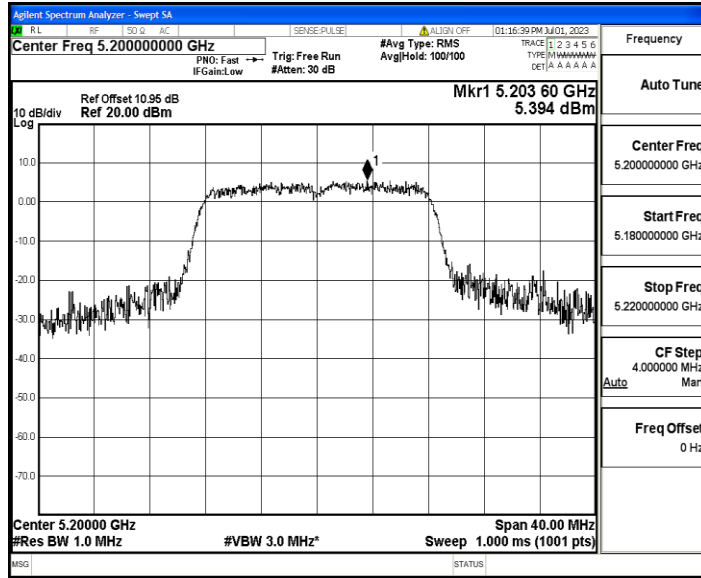
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.97	≤11.00	PASS
	Ant2	5180	4.99	≤11.00	PASS
	Ant1	5200	2.4	≤11.00	PASS
	Ant2	5200	5.39	≤11.00	PASS
	Ant1	5240	4.03	≤11.00	PASS
	Ant2	5240	5.9	≤11.00	PASS
11N20MIMO	Ant1	5180	0.34	≤11.00	PASS
	Ant2	5180	0.33	≤11.00	PASS
	total	5180	3.35	≤11.00	PASS
	Ant1	5200	1.36	≤11.00	PASS
	Ant2	5200	2.38	≤11.00	PASS
	total	5200	4.91	≤11.00	PASS
	Ant1	5240	1.86	≤11.00	PASS
	Ant2	5240	4.77	≤11.00	PASS
	total	5240	6.56	≤11.00	PASS
11N40MIMO	Ant1	5190	0.93	≤11.00	PASS
	Ant2	5190	1.2	≤11.00	PASS
	total	5190	4.08	≤11.00	PASS
	Ant1	5230	0.48	≤11.00	PASS
	Ant2	5230	3.06	≤11.00	PASS
	total	5230	4.97	≤11.00	PASS
11AC20MIMO	Ant1	5180	3.42	≤11.00	PASS
	Ant2	5180	2.34	≤11.00	PASS
	total	5180	5.92	≤11.00	PASS
	Ant1	5200	4.61	≤11.00	PASS
	Ant2	5200	2.07	≤11.00	PASS
	total	5200	6.53	≤11.00	PASS
	Ant1	5240	3.24	≤11.00	PASS
	Ant2	5240	3.11	≤11.00	PASS
	total	5240	6.19	≤11.00	PASS
11AC40MIMO	Ant1	5190	4.14	≤11.00	PASS
	Ant2	5190	2.27	≤11.00	PASS
	total	5190	6.32	≤11.00	PASS
	Ant1	5230	1.47	≤11.00	PASS
	Ant2	5230	1.75	≤11.00	PASS
	total	5230	4.62	≤11.00	PASS
11AC80MIMO	Ant1	5210	0.63	≤11.00	PASS
	Ant2	5210	-0.43	≤11.00	PASS
	total	5210	3.14	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

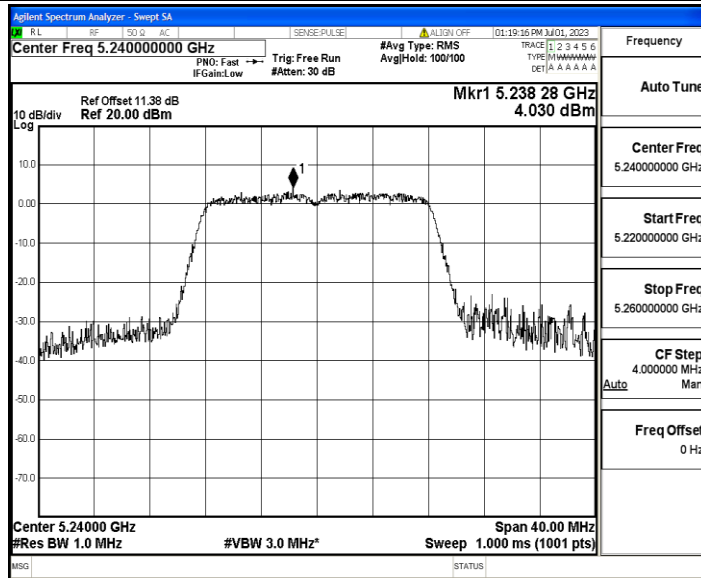
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

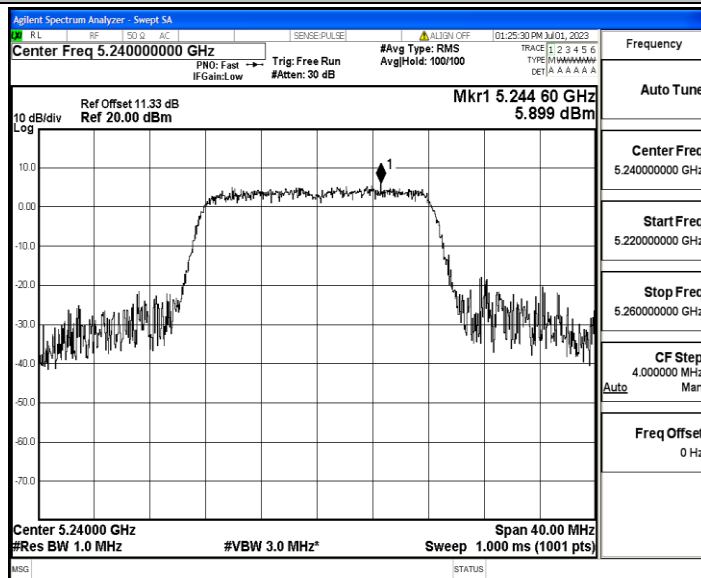




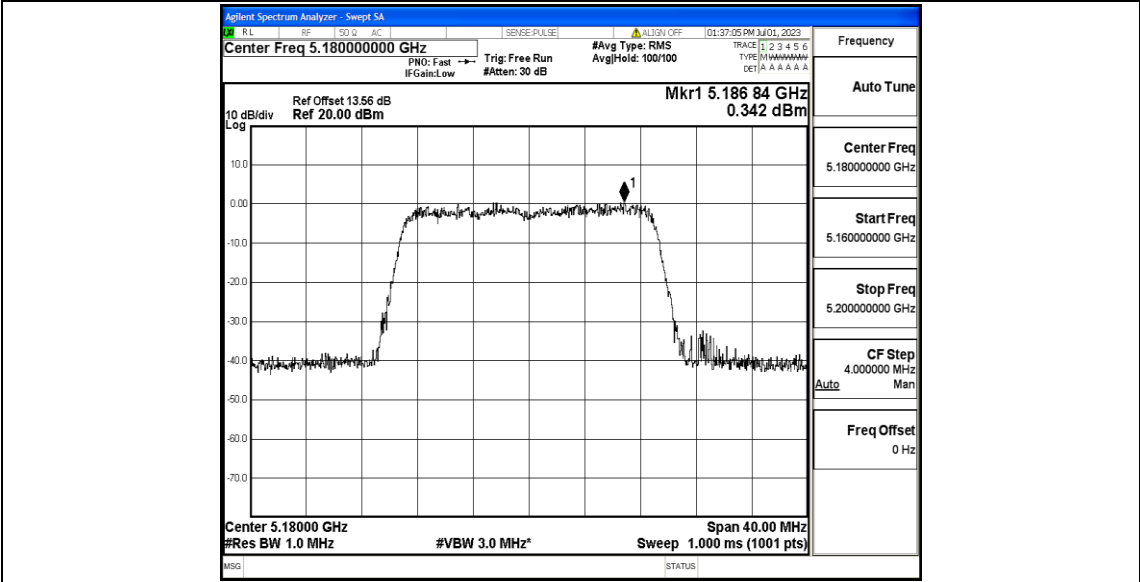
11A_Ant1_5240



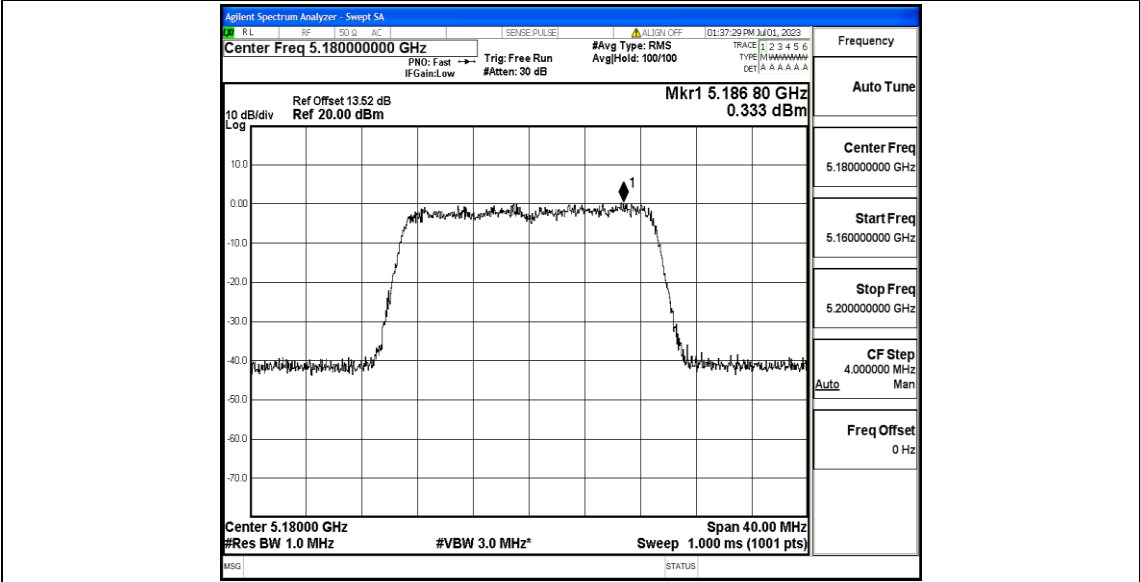
11A_Ant2_5240



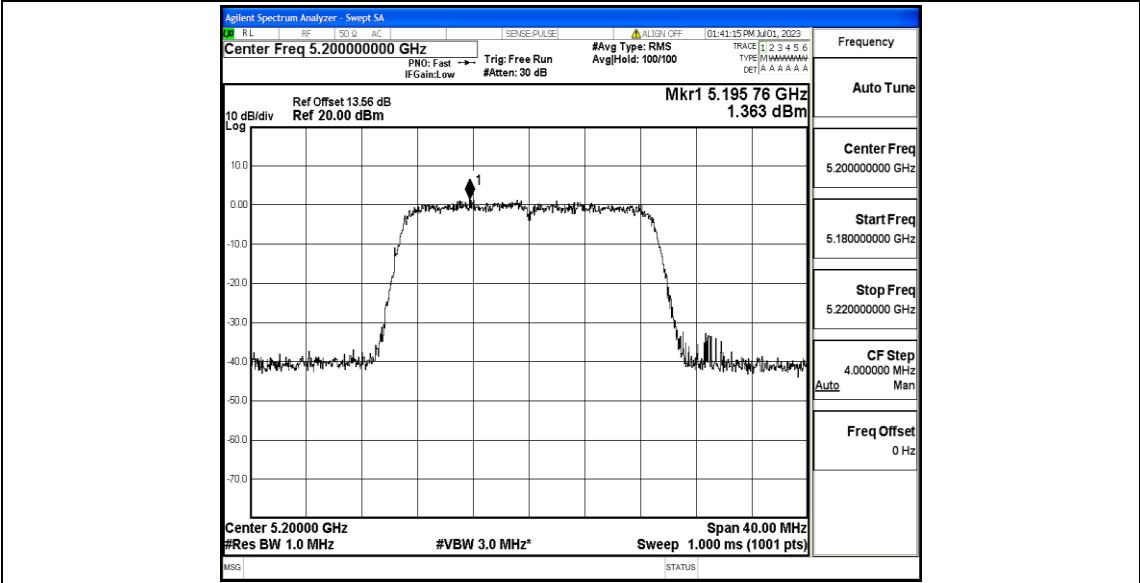
11N20MIMO_Ant1_5180



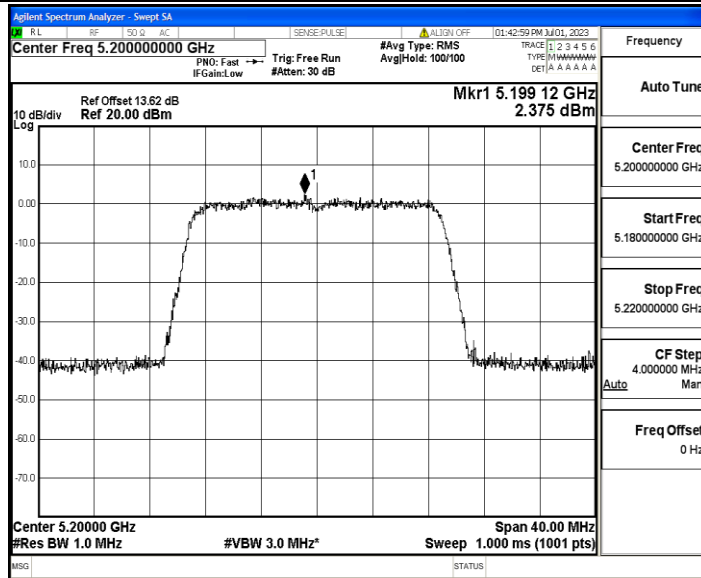
11N20MIMO_Ant2_5180



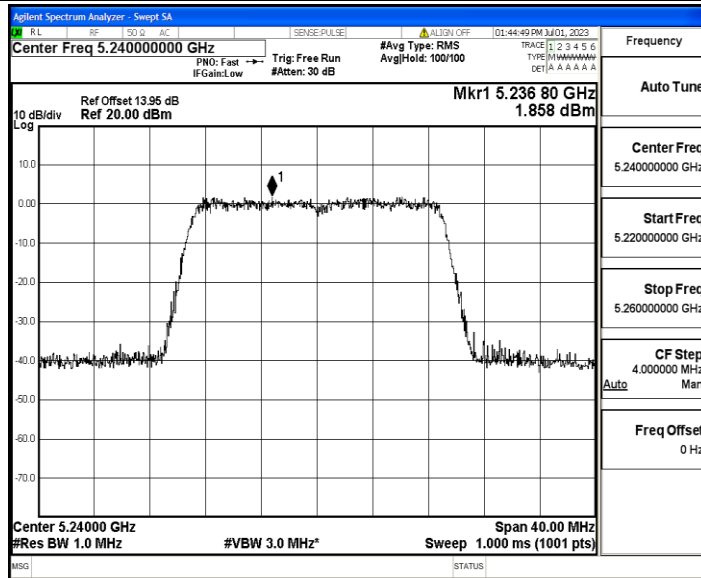
11N20MIMO_Ant1_5200



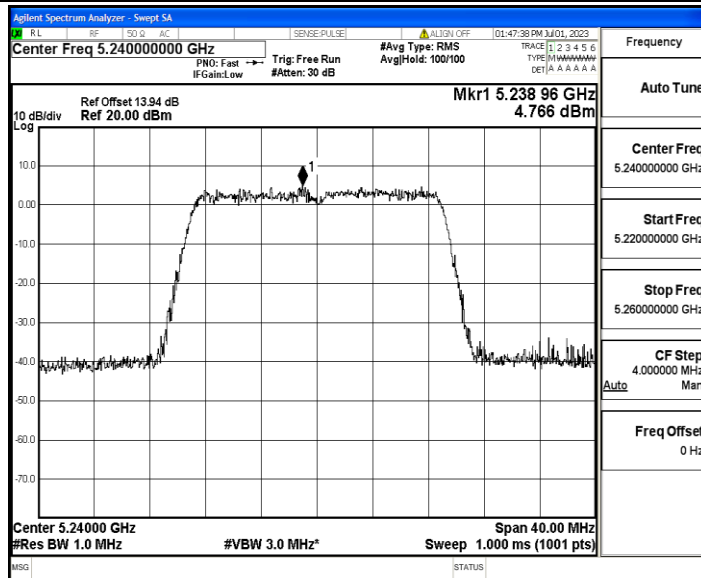
11N20MIMO_Ant2_5200



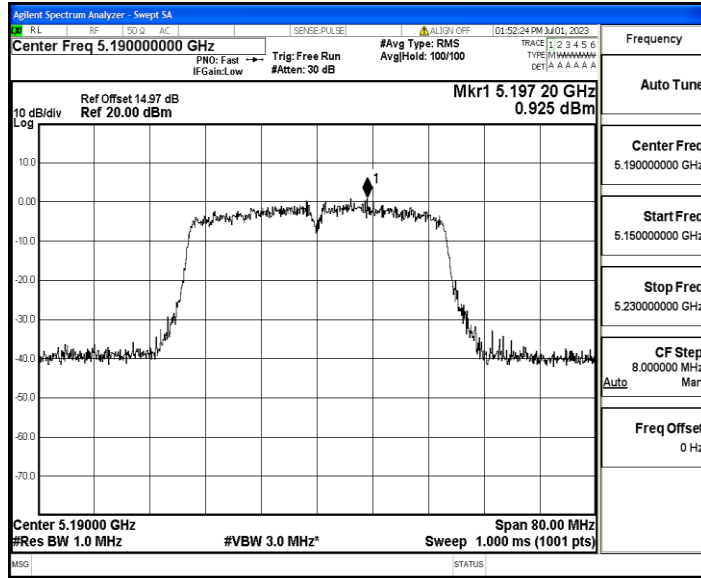
11N20MIMO_Ant1_5240



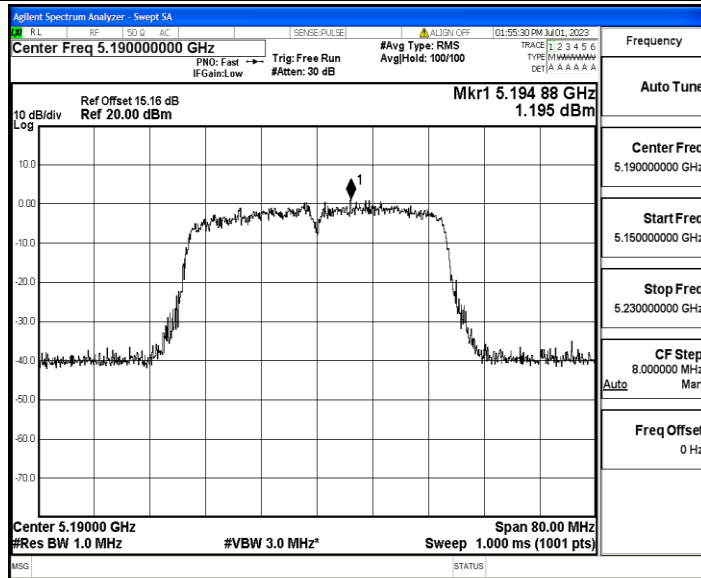
11N20MIMO_Ant2_5240



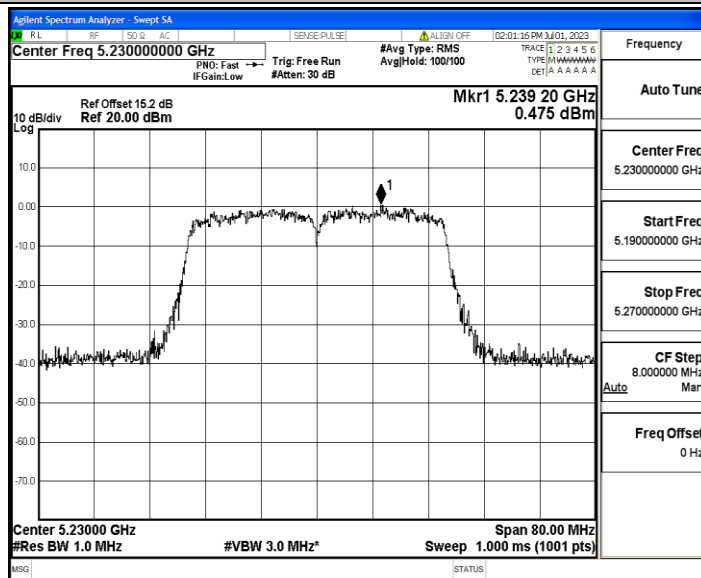
11N40MIMO_Ant1_5190



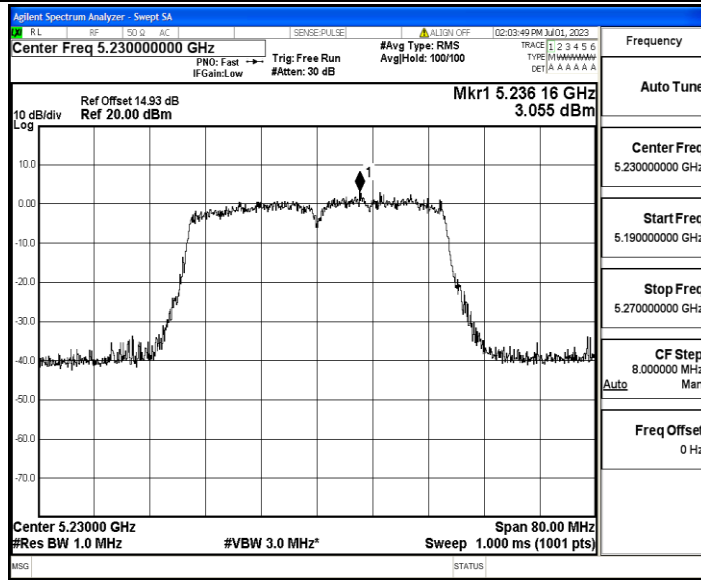
11N40MIMO_Ant2_5190



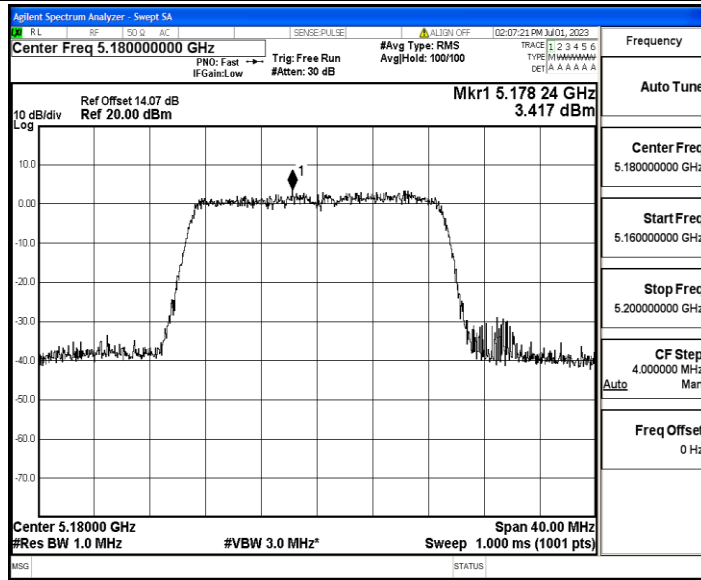
11N40MIMO_Ant1_5230



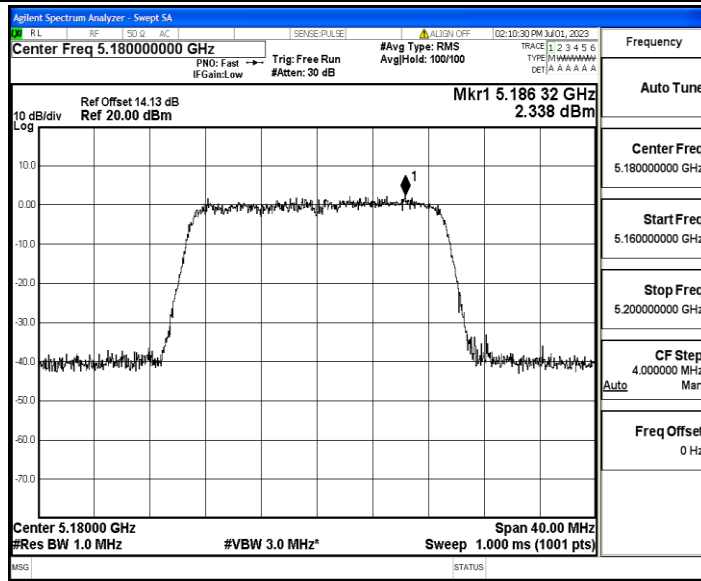
11N40MIMO_Ant2_5230



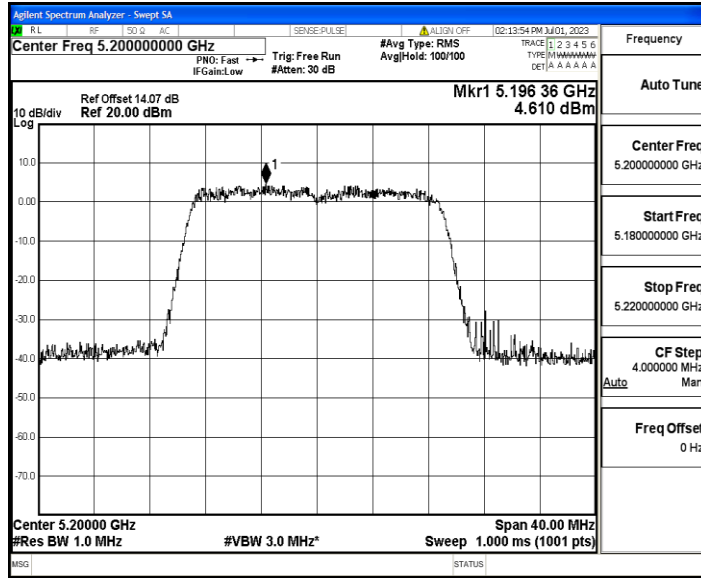
11AC20MIMO_Ant1_5180



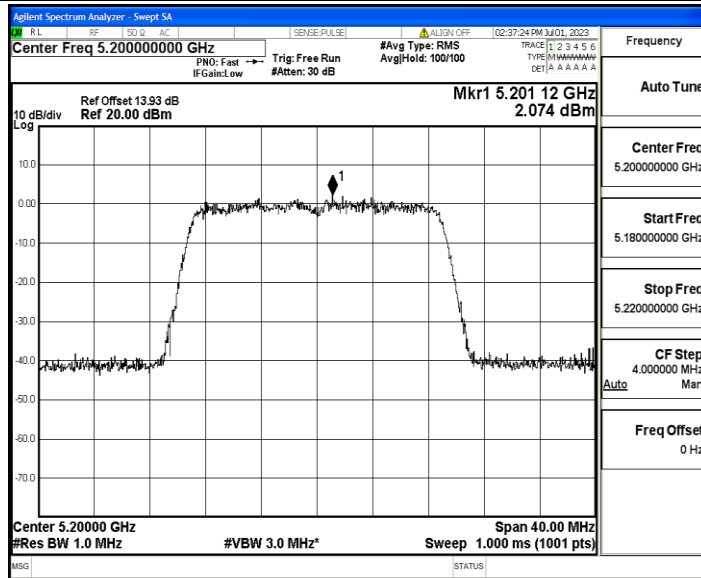
11AC20MIMO_Ant2_5180



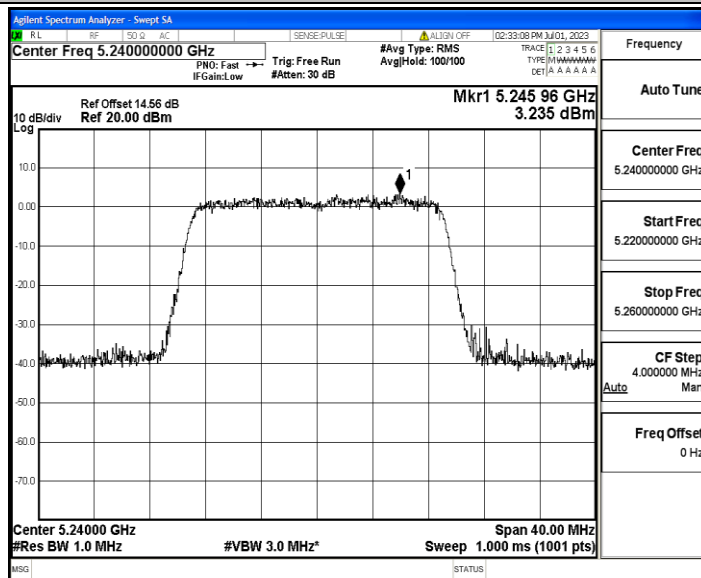
11AC20MIMO_Ant1_5200



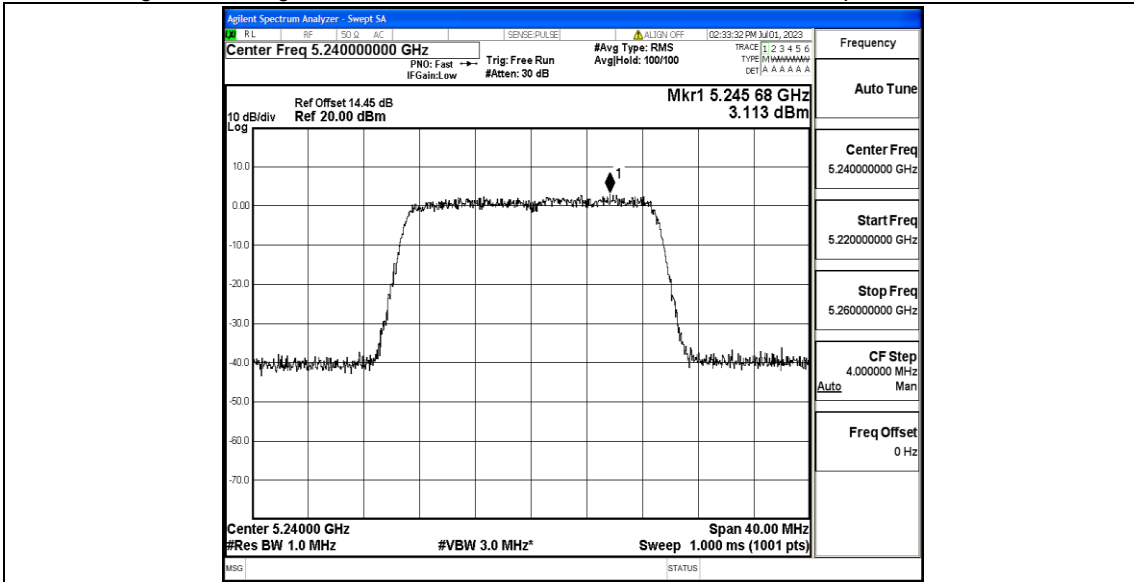
11AC20MIMO_Ant2_5200



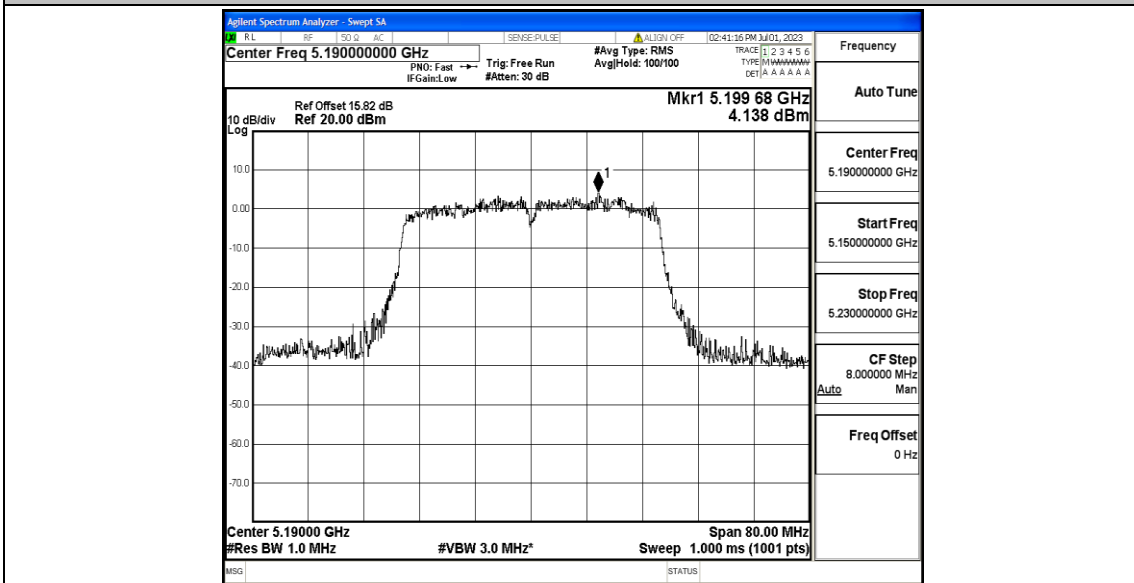
11AC20MIMO_Ant1_5240



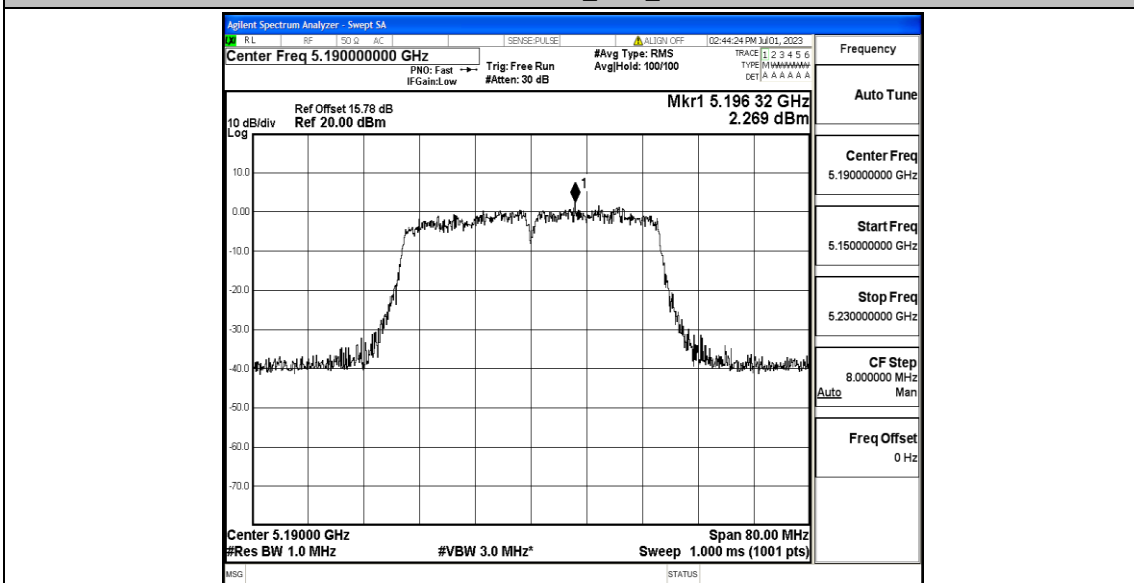
11AC20MIMO_Ant2_5240



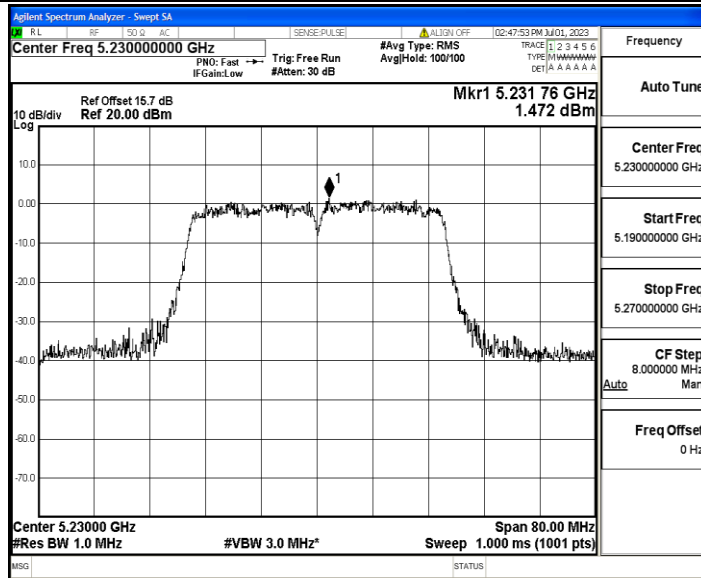
11AC40MIMO_Ant1_5190



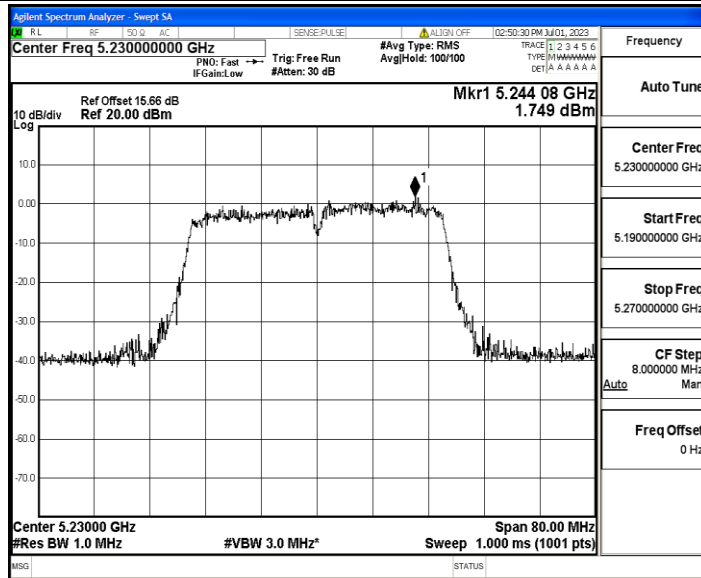
11AC40MIMO_Ant2_5190



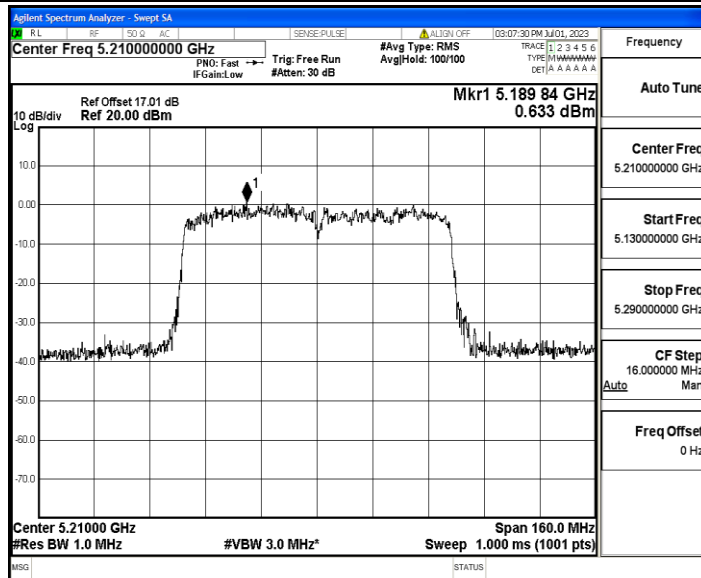
11AC40MIMO_Ant1_5230



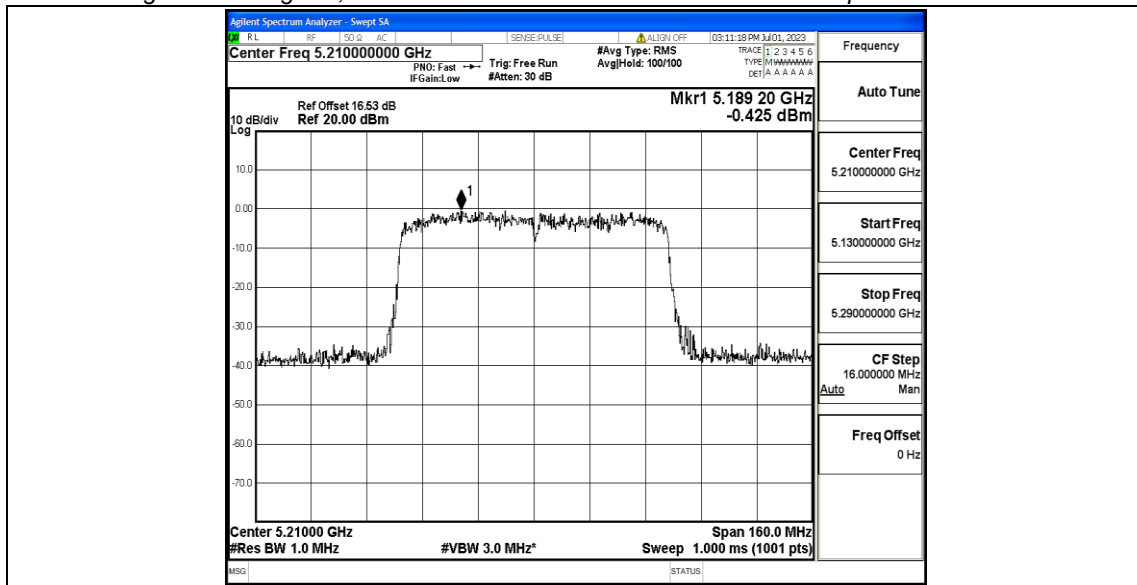
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

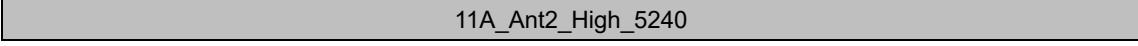
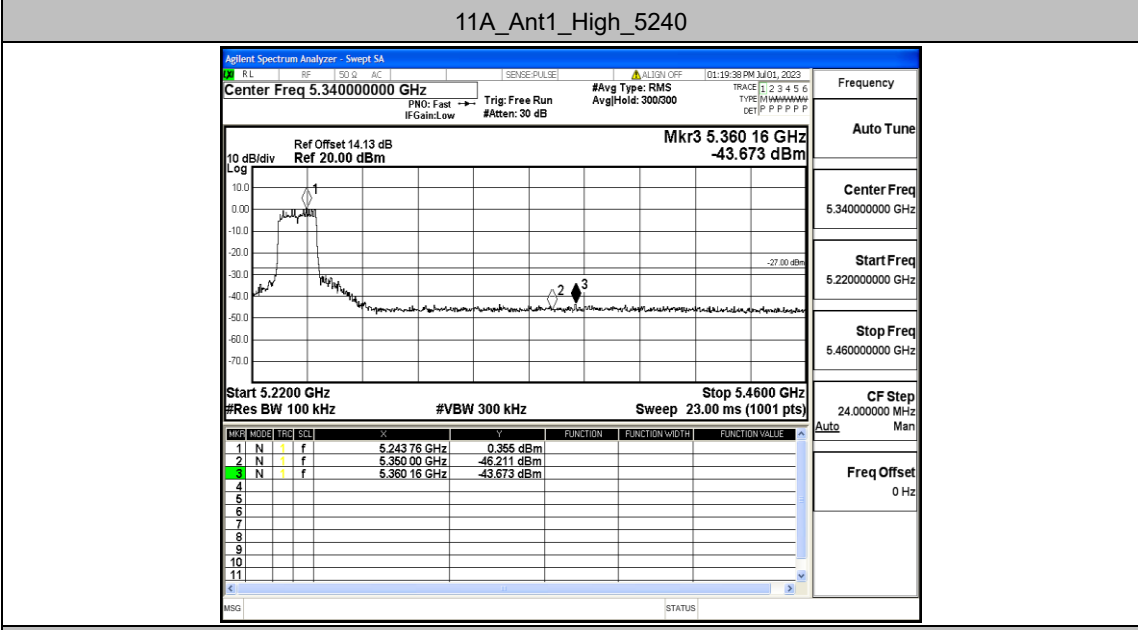
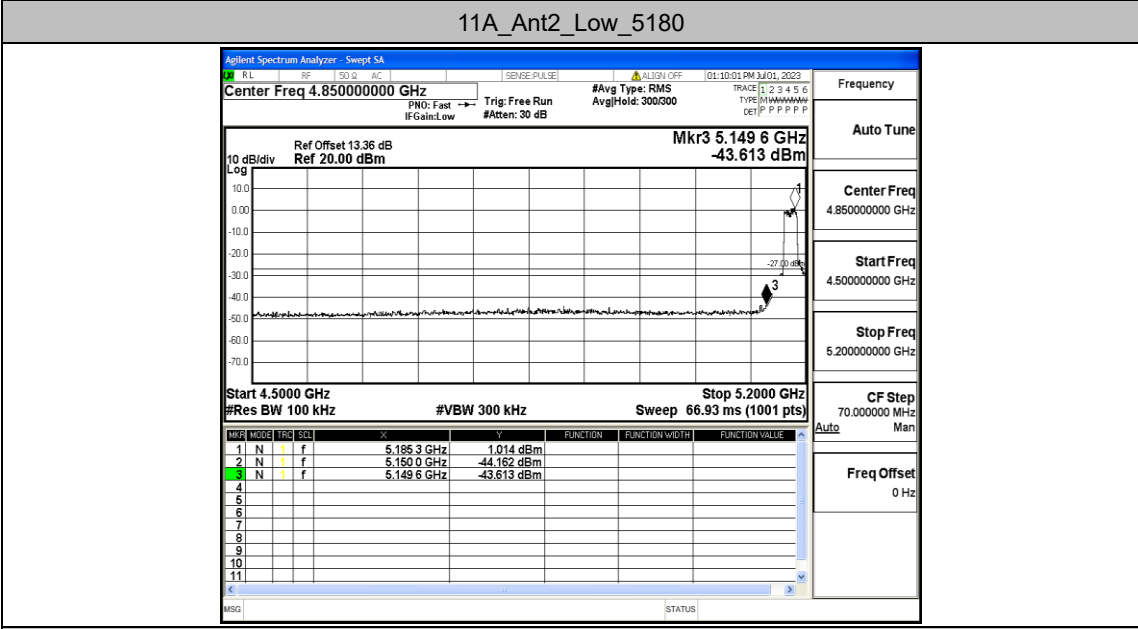
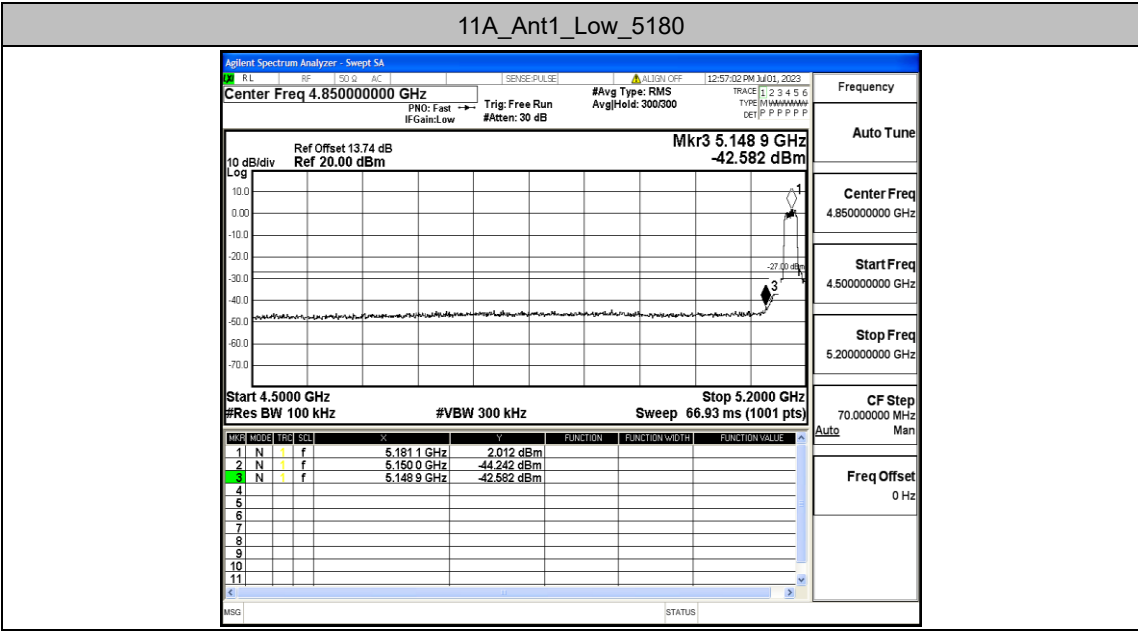


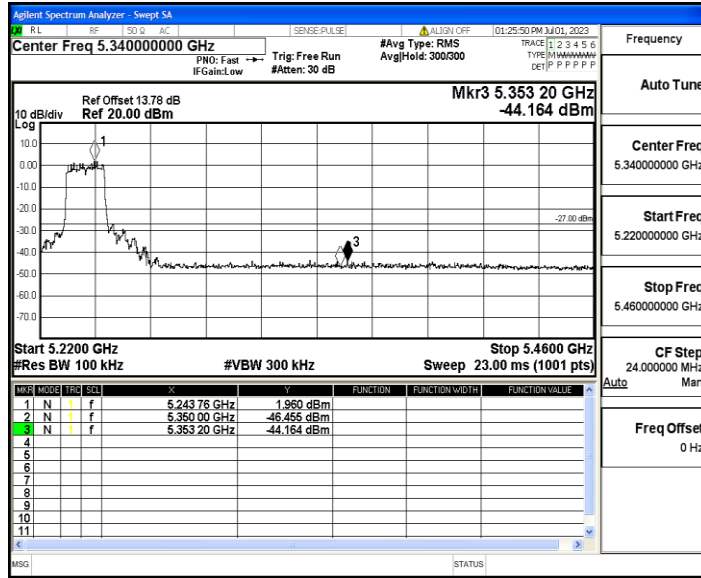
Appendix D: Band edge measurements

Test Result

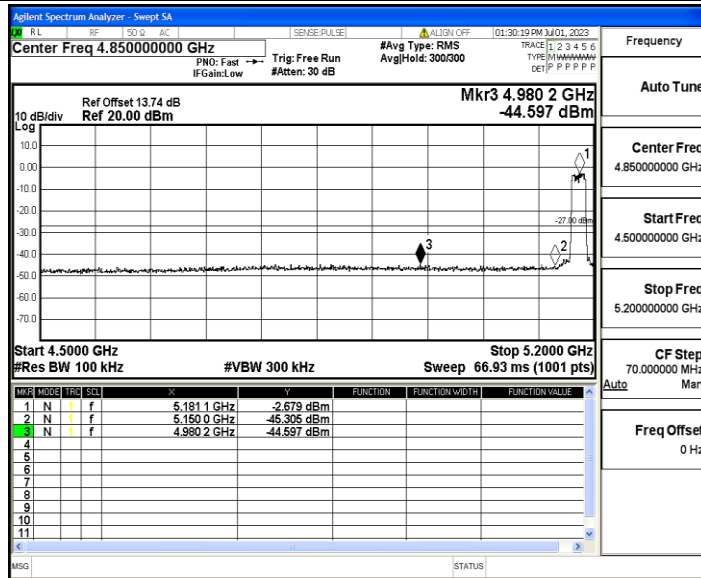
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-42.58	≤-27	PASS
	Ant2	Low	5180	-43.61	≤-27	PASS
	Ant1	High	5240	-43.67	≤-27	PASS
	Ant2	High	5240	-44.16	≤-27	PASS
11N20MIMO	Ant1	Low	5180	-44.6	≤-27	PASS
	Ant2	Low	5180	-43.99	≤-27	PASS
	Ant1	High	5240	-43.98	≤-27	PASS
	Ant2	High	5240	-44.24	≤-27	PASS
11N40MIMO	Ant1	Low	5190	-44.53	≤-27	PASS
	Ant2	Low	5190	-44.52	≤-27	PASS
	Ant1	High	5230	-44.29	≤-27	PASS
	Ant2	High	5230	-45.09	≤-27	PASS
11AC20MIMO	Ant1	Low	5180	-44.17	≤-27	PASS
	Ant2	Low	5180	-45.01	≤-27	PASS
	Ant1	High	5240	-42.99	≤-27	PASS
	Ant2	High	5240	-44.32	≤-27	PASS
11AC40MIMO	Ant1	Low	5190	-44.22	≤-27	PASS
	Ant2	Low	5190	-44.41	≤-27	PASS
	Ant1	High	5230	-44.56	≤-27	PASS
	Ant2	High	5230	-44.14	≤-27	PASS
11AC80MIMO	Ant1	Low	5210	-43.84	≤-27	PASS
	Ant2	Low	5210	-44.22	≤-27	PASS
	Ant1	High	5210	-43.88	≤-27	PASS
	Ant2	High	5210	-45.11	≤-27	PASS

Test Graphs

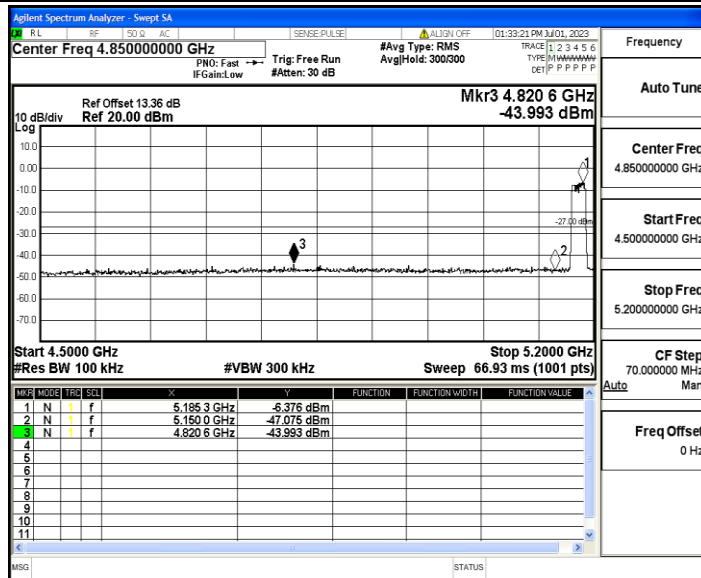




11N20MIMO_Ant1_Low_5180



11N20MIMO_Ant2_Low_5180



11N20MIMO_Ant1_High_5240