

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

Product Name: Android SET TOP BOX

Trade Mark: Viya

Test Model: SC6BHA

FCC ID: 2AOVU-SEI830AT

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

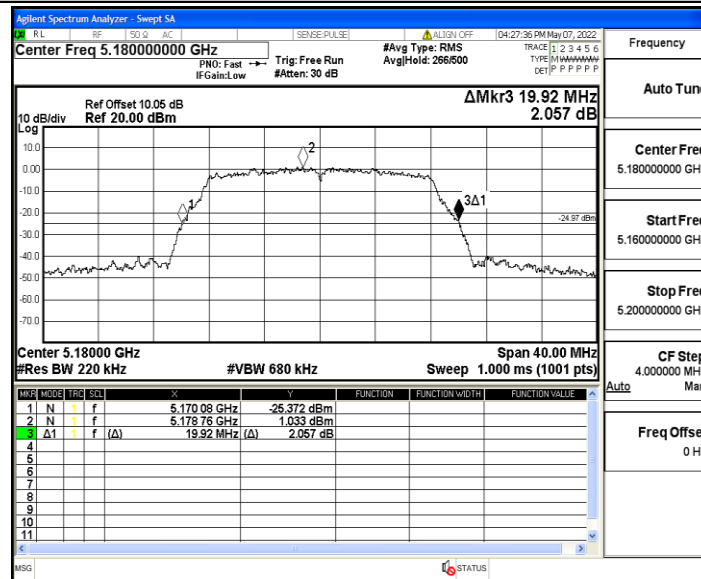
Appendix A1: Emission Bandwidth

Test Result

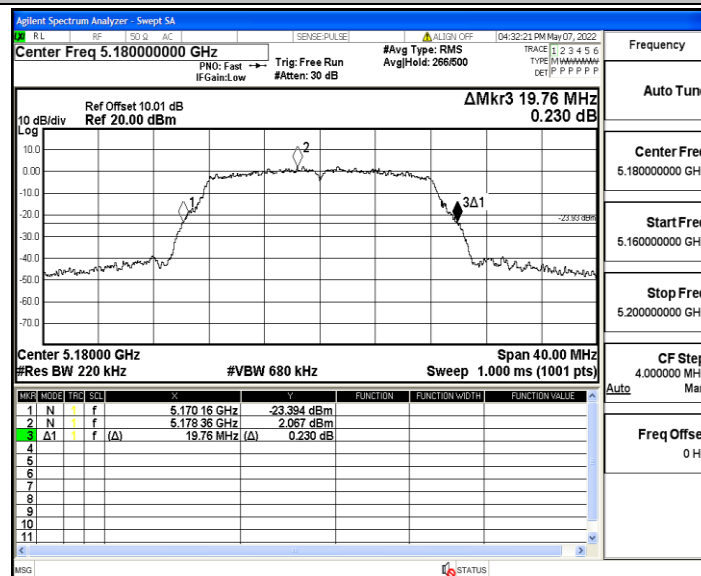
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.920	5170.080	5190.000	---	PASS
	Ant2	5180	19.760	5170.160	5189.920	---	PASS
	Ant1	5200	20.120	5189.920	5210.040	---	PASS
	Ant2	5200	20.120	5190.000	5210.120	---	PASS
	Ant1	5240	19.880	5230.080	5249.960	---	PASS
	Ant2	5240	19.920	5230.040	5249.960	---	PASS
11N20MIMO	Ant1	5180	20.240	5170.000	5190.240	---	PASS
	Ant2	5180	20.040	5170.120	5190.160	---	PASS
	Ant1	5200	20.200	5189.920	5210.120	---	PASS
	Ant2	5200	20.280	5189.880	5210.160	---	PASS
	Ant1	5240	20.120	5230.000	5250.120	---	PASS
	Ant2	5240	20.160	5230.000	5250.160	---	PASS
11N40MIMO	Ant1	5190	40.080	5170.000	5210.080	---	PASS
	Ant2	5190	39.440	5170.240	5209.680	---	PASS
	Ant1	5230	40.240	5210.080	5250.320	---	PASS
	Ant2	5230	39.360	5210.320	5249.680	---	PASS
11AC20MIMO	Ant1	5180	20.000	5170.080	5190.080	---	PASS
	Ant2	5180	19.960	5170.080	5190.040	---	PASS
	Ant1	5200	20.160	5189.920	5210.080	---	PASS
	Ant2	5200	19.840	5190.080	5209.920	---	PASS
	Ant1	5240	20.120	5229.960	5250.080	---	PASS
	Ant2	5240	20.080	5229.920	5250.000	---	PASS
11AC40MIMO	Ant1	5190	40.160	5170.000	5210.160	---	PASS
	Ant2	5190	39.600	5170.320	5209.920	---	PASS
	Ant1	5230	40.400	5209.760	5250.160	---	PASS
	Ant2	5230	39.440	5210.400	5249.840	---	PASS
11AC80MIMO	Ant1	5210	81.280	5169.520	5250.800	---	PASS
	Ant2	5210	79.360	5170.480	5249.840	---	PASS

Test Graphs

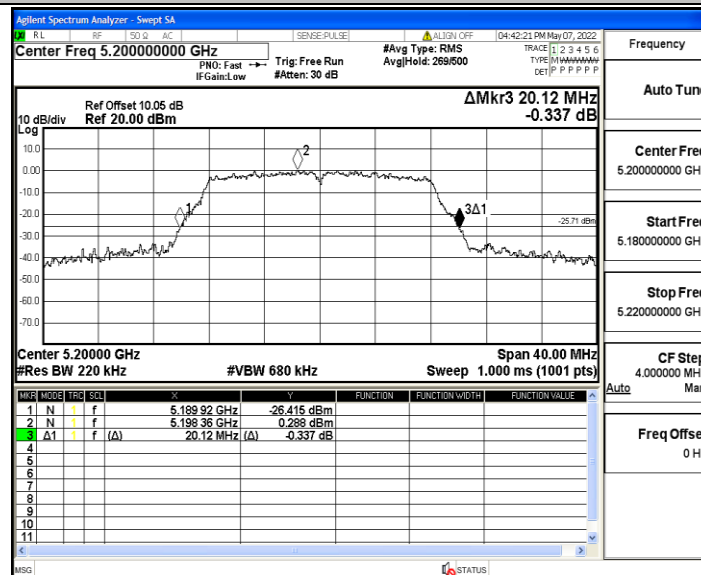
11A_Ant1_5180



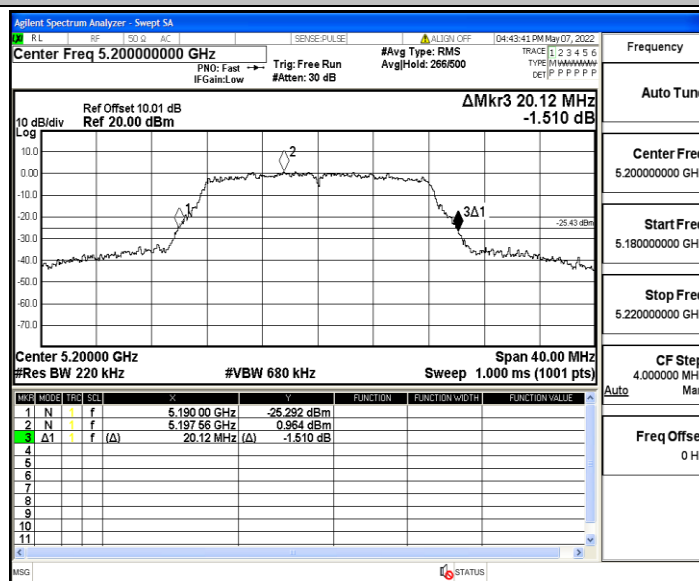
11A_Ant2_5180



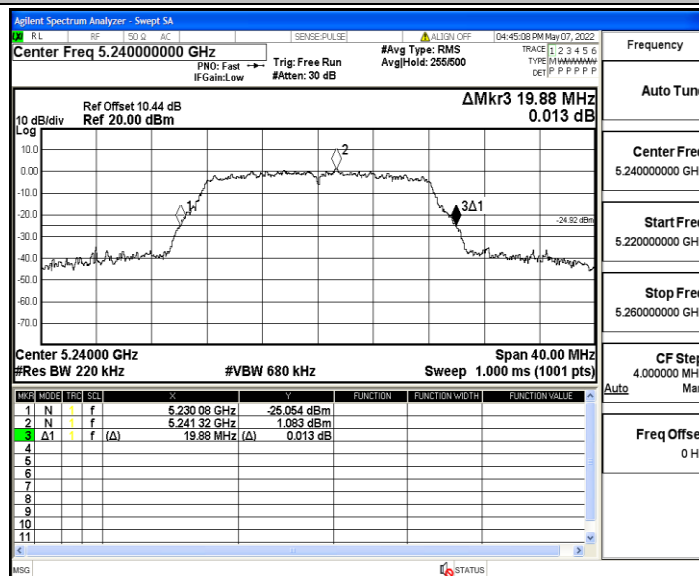
11A_Ant1_5200



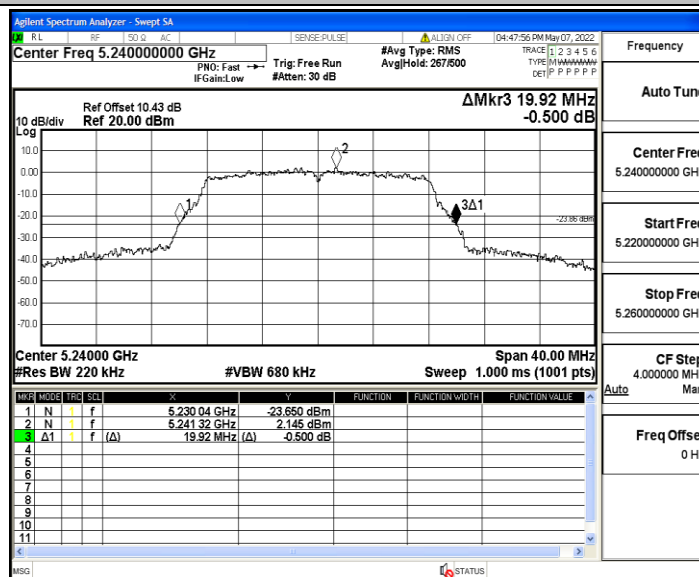
11A_Ant2_5200



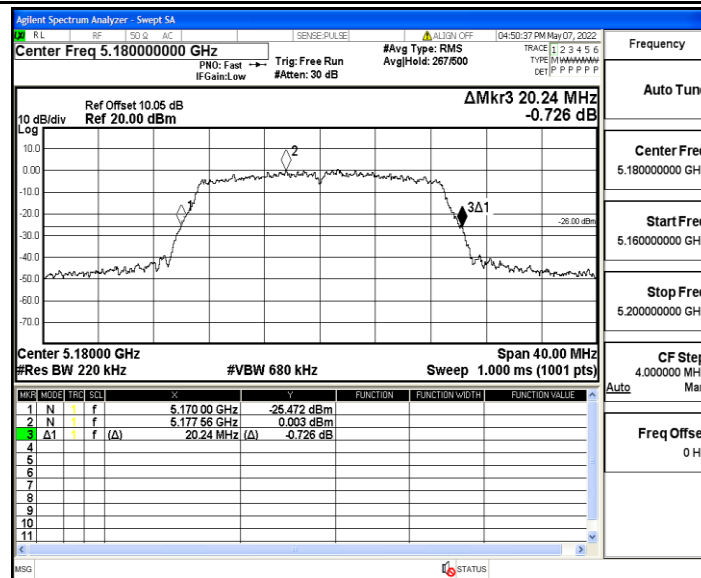
11A_Ant1_5240



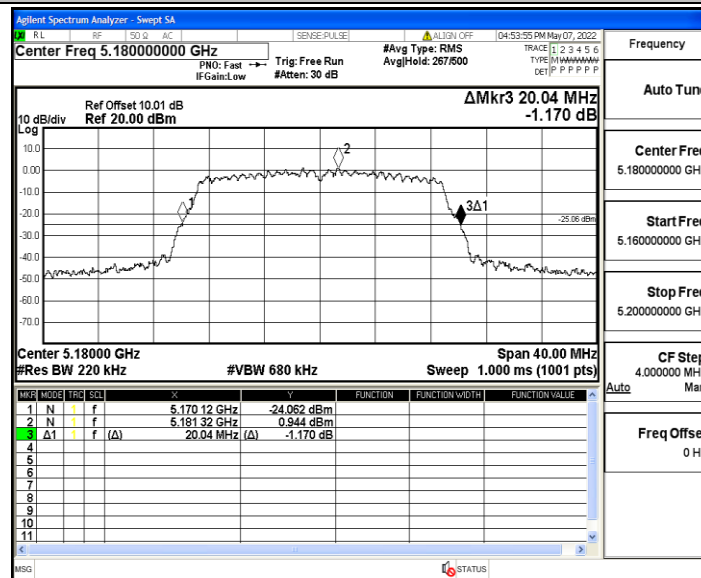
11A_Ant2_5240



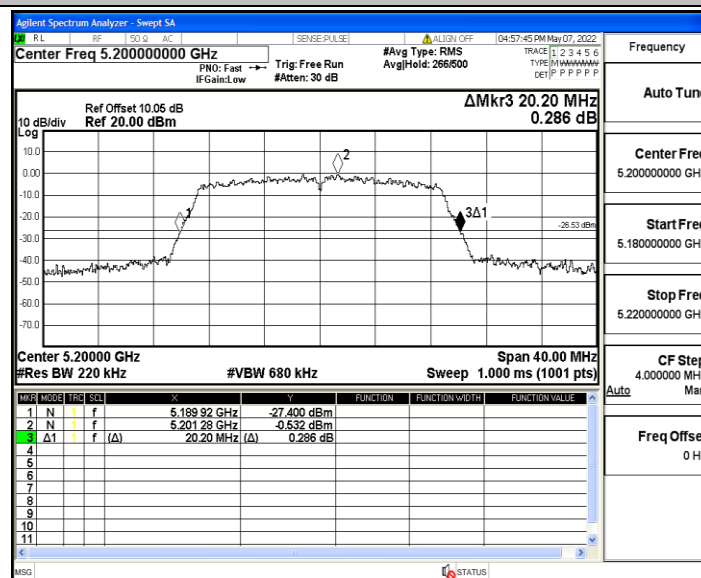
11N20MIMO_Ant1_5180



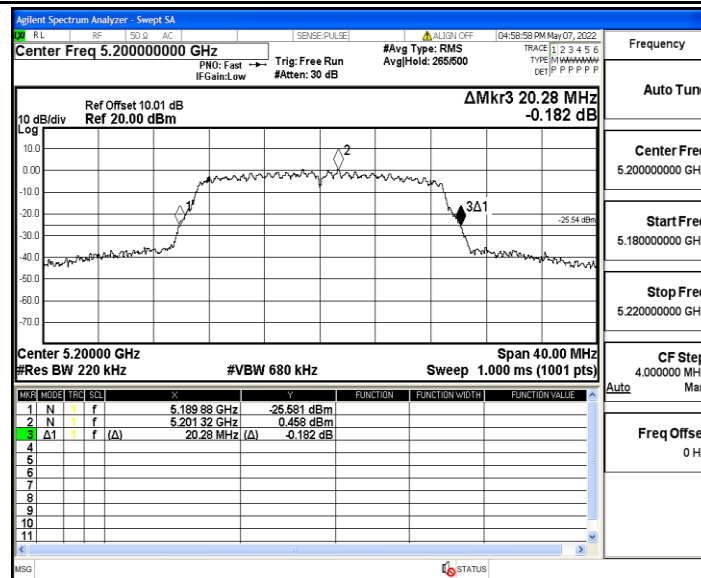
11N20MIMO_Ant2_5180



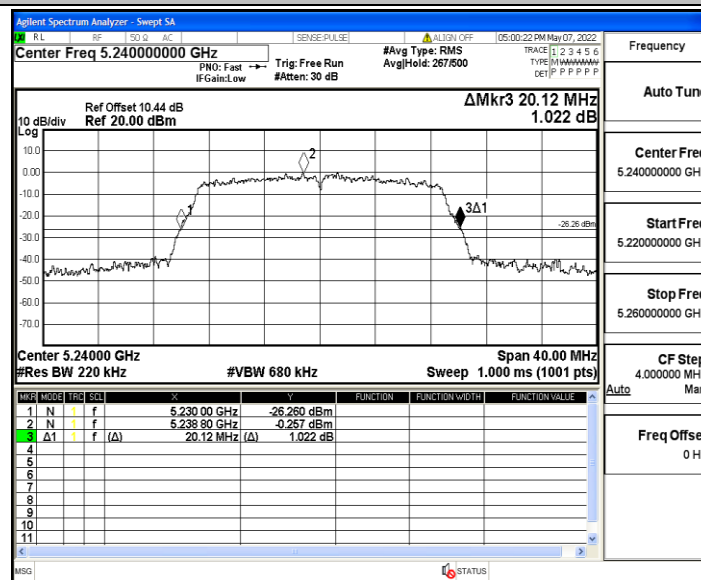
11N20MIMO_Ant1_5200



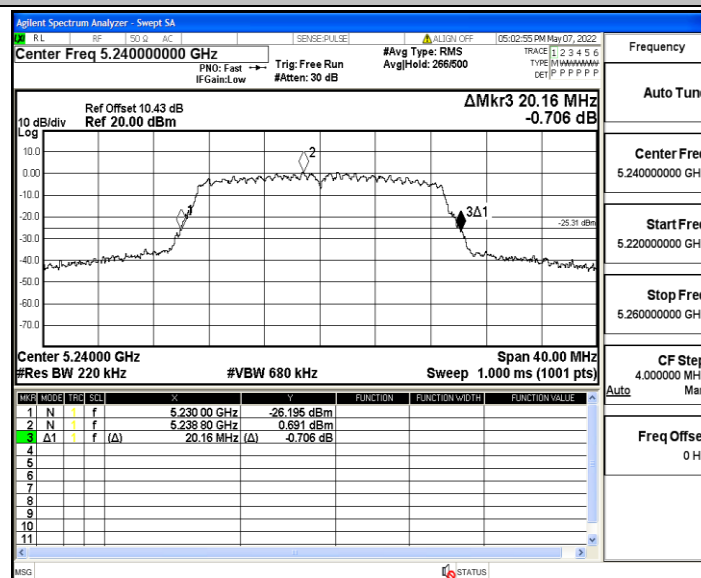
11N20MIMO_Ant2_5200



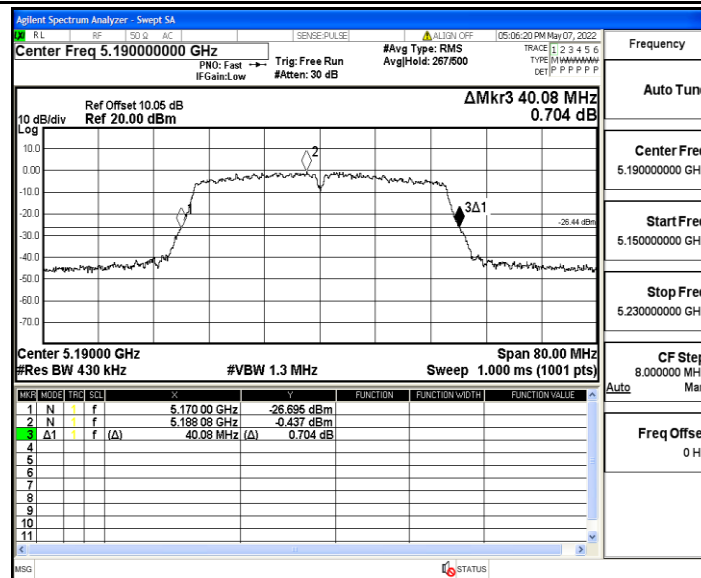
11N20MIMO_Ant1_5240



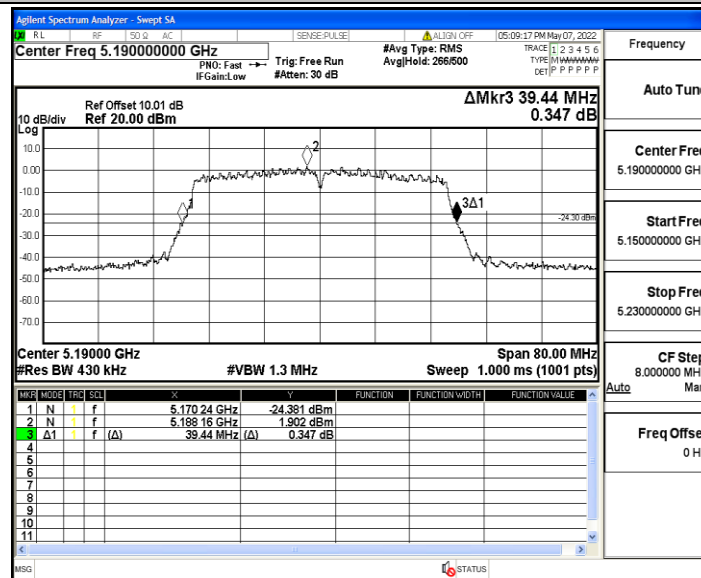
11N20MIMO_Ant2_5240



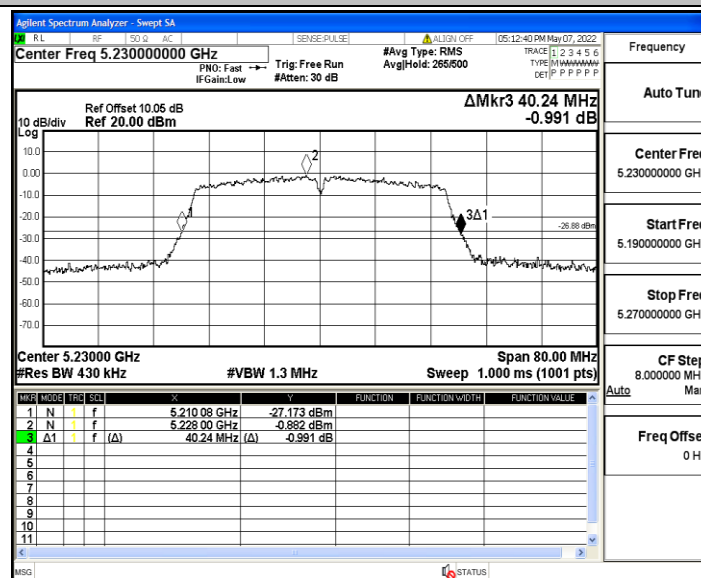
11N40MIMO_Ant1_5190



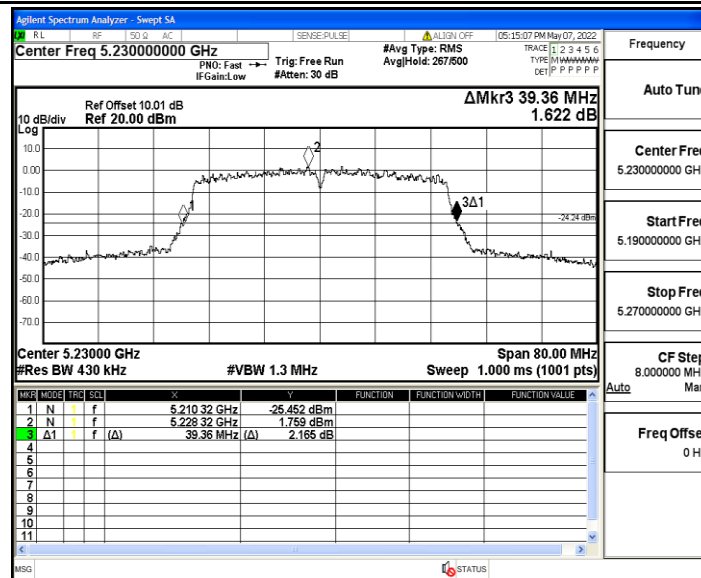
11N40MIMO_Ant2_5190



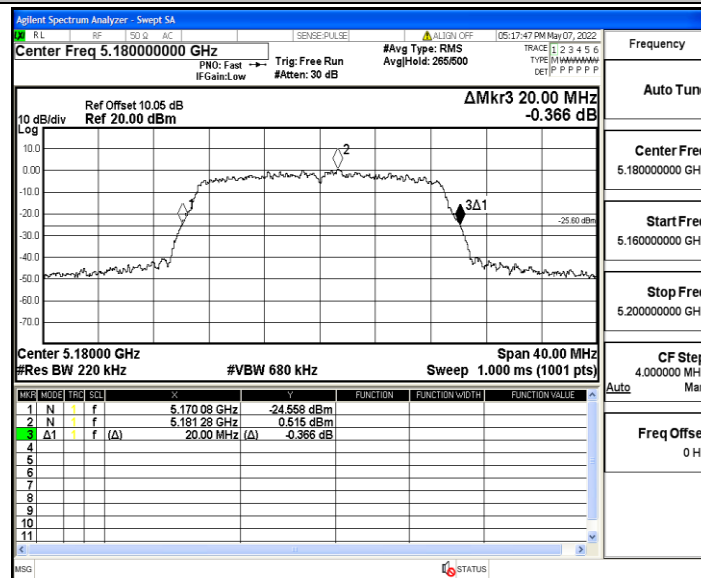
11N40MIMO_Ant1_5230



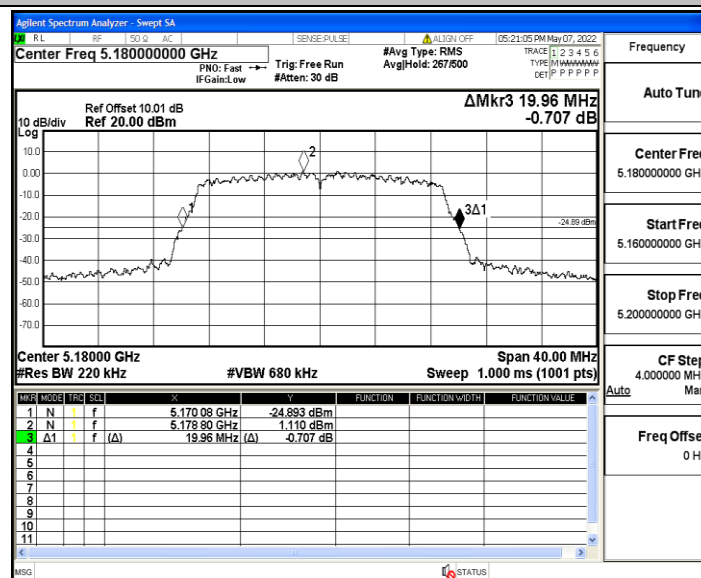
11N40MIMO_Ant2_5230



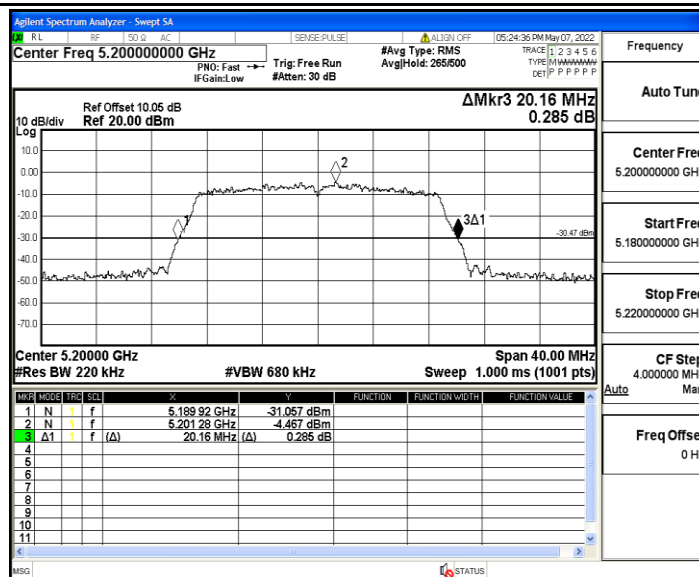
11AC20MIMO_Ant1_5180



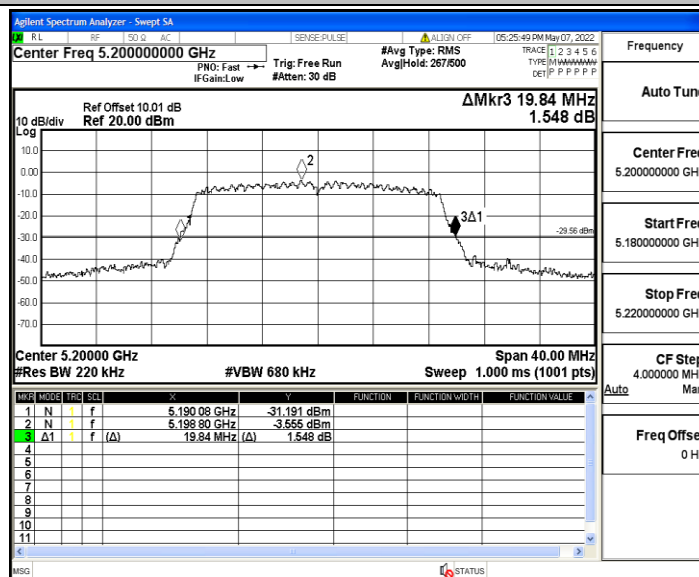
11AC20MIMO_Ant2_5180



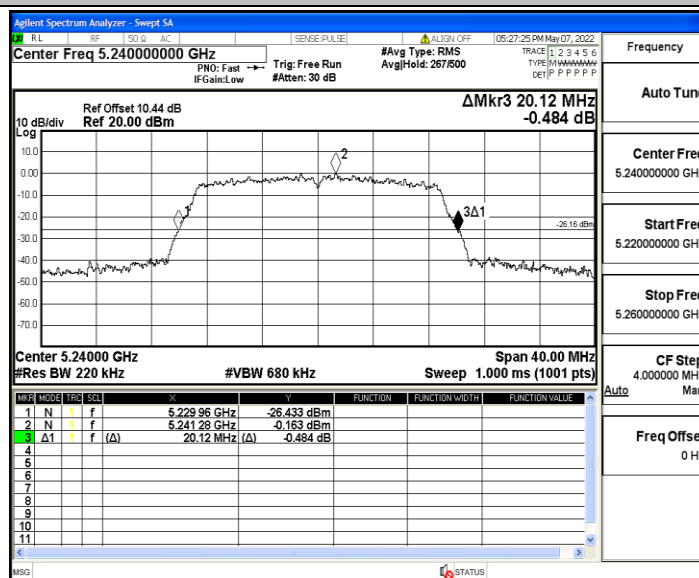
11AC20MIMO_Ant1_5200



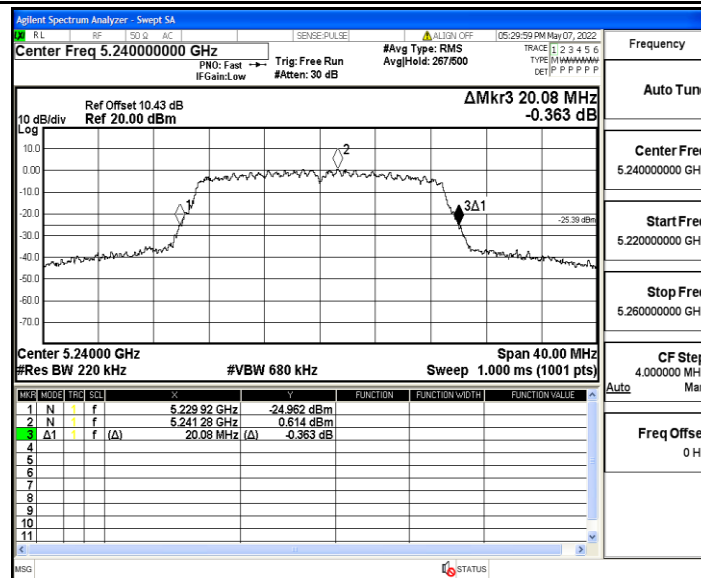
11AC20MIMO_Ant2_5200



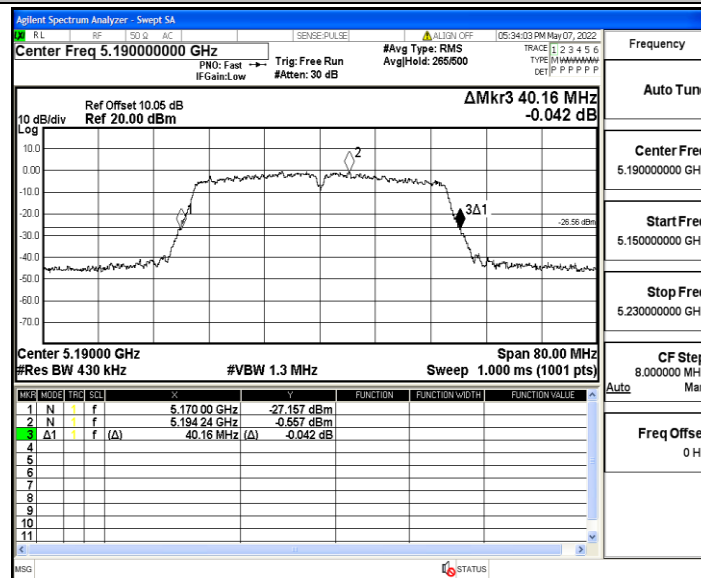
11AC20MIMO_Ant1_5240



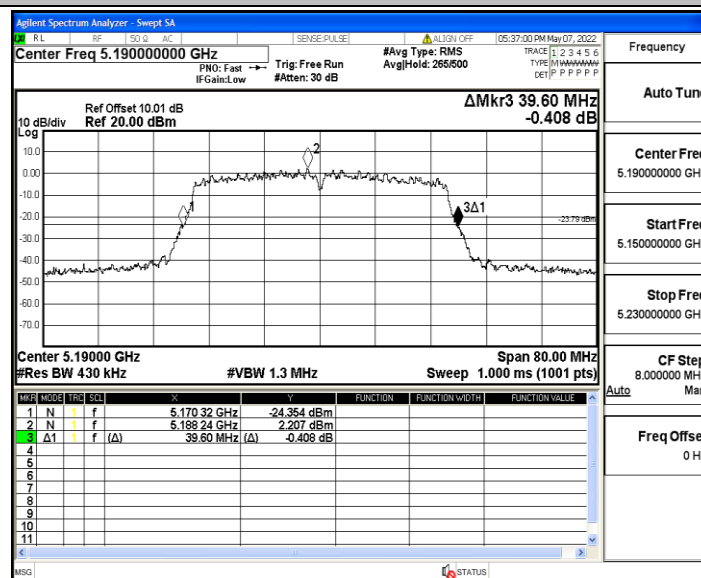
11AC20MIMO_Ant2_5240



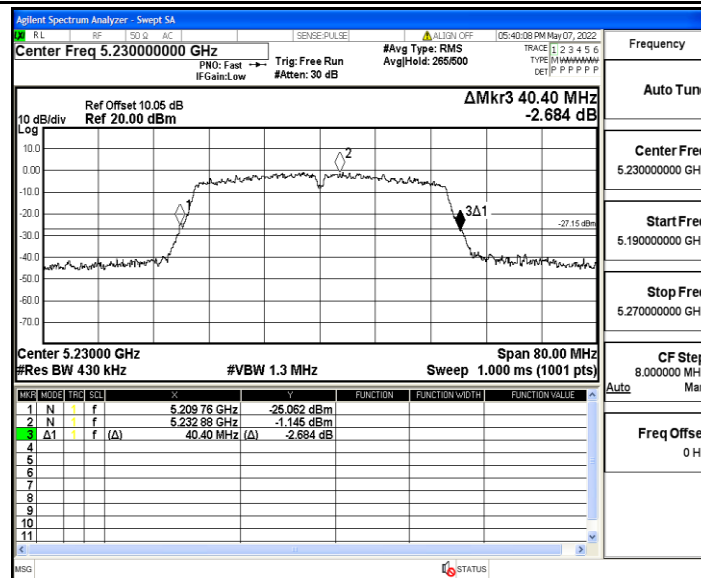
11AC40MIMO_Ant1_5190



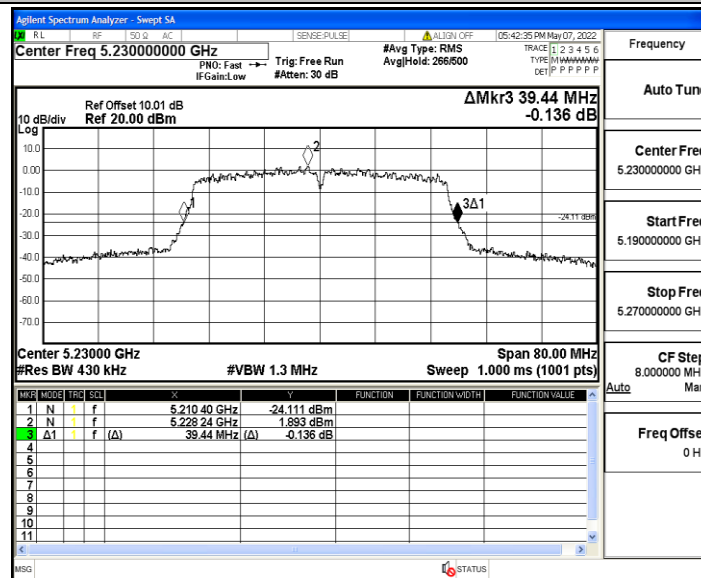
11AC40MIMO_Ant2_5190



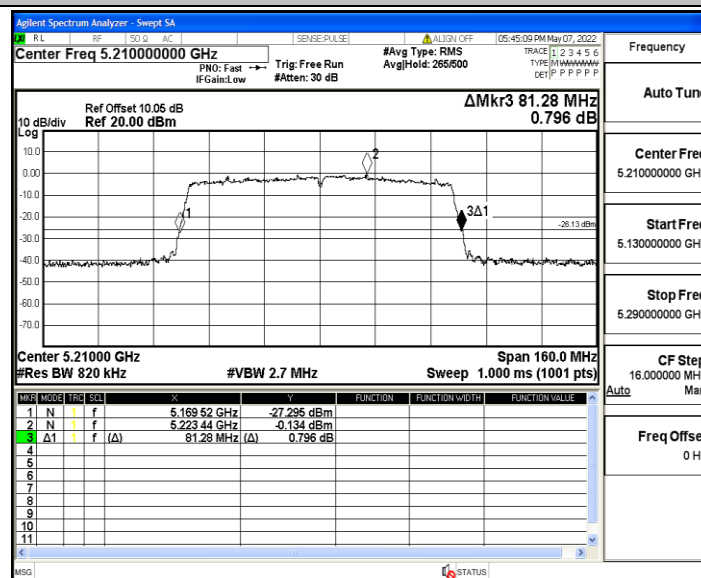
11AC40MIMO_Ant1_5230



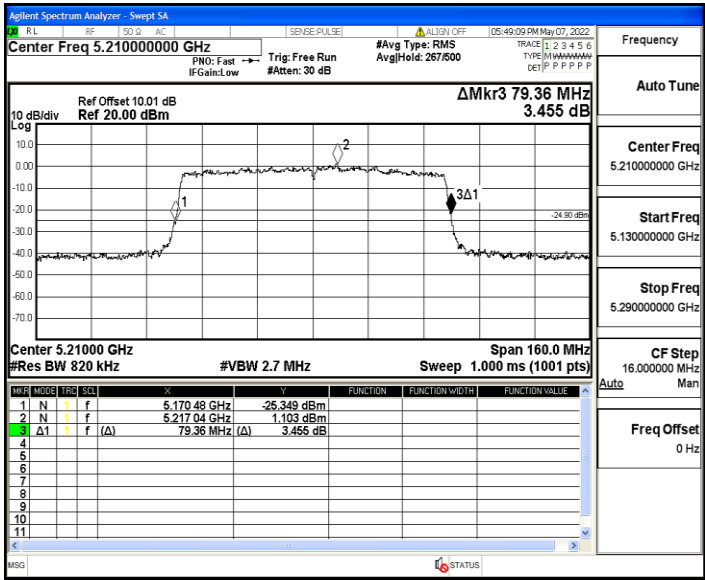
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



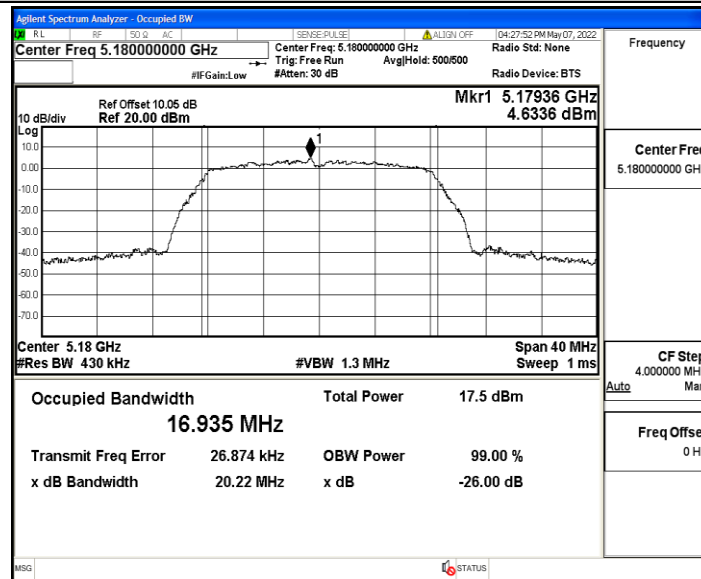
Appendix A2: Occupied channel bandwidth

Test Result

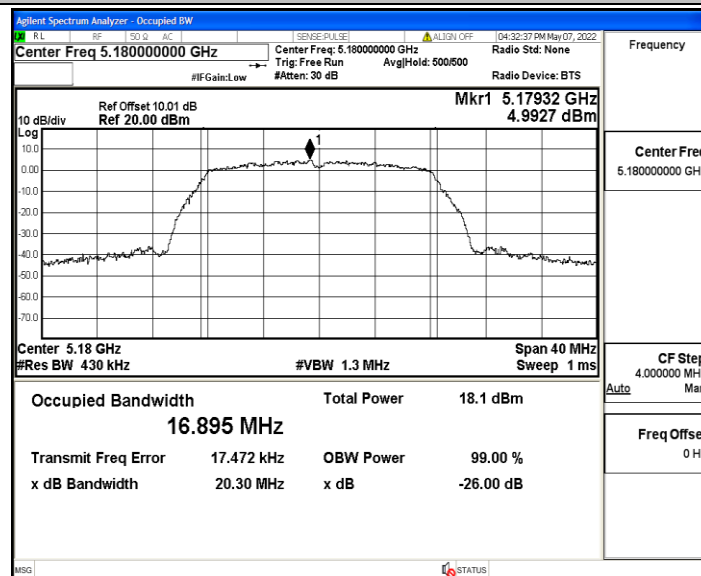
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.935	5171.559	5188.494	---	PASS
	Ant2	5180	16.895	5171.570	5188.465	---	PASS
	Ant1	5200	16.990	5191.482	5208.472	---	PASS
	Ant2	5200	16.965	5191.479	5208.444	---	PASS
	Ant1	5240	16.970	5231.487	5248.457	---	PASS
	Ant2	5240	16.947	5231.465	5248.412	---	PASS
11N20MIMO	Ant1	5180	17.805	5171.137	5188.942	---	PASS
	Ant2	5180	17.602	5171.223	5188.825	---	PASS
	Ant1	5200	17.875	5191.080	5208.955	---	PASS
	Ant2	5200	17.659	5191.180	5208.839	---	PASS
	Ant1	5240	17.854	5231.076	5248.930	---	PASS
	Ant2	5240	17.687	5231.159	5248.846	---	PASS
11N40MIMO	Ant1	5190	36.115	5171.980	5208.095	---	PASS
	Ant2	5190	36.296	5171.898	5208.194	---	PASS
	Ant1	5230	36.063	5212.047	5248.110	---	PASS
	Ant2	5230	36.276	5211.961	5248.237	---	PASS
11AC20MIMO	Ant1	5180	17.772	5171.154	5188.926	---	PASS
	Ant2	5180	17.614	5171.209	5188.823	---	PASS
	Ant1	5200	17.823	5191.095	5208.918	---	PASS
	Ant2	5200	17.603	5191.207	5208.810	---	PASS
	Ant1	5240	17.854	5231.076	5248.930	---	PASS
	Ant2	5240	17.644	5231.185	5248.829	---	PASS
11AC40MIMO	Ant1	5190	36.105	5171.965	5208.070	---	PASS
	Ant2	5190	36.223	5171.923	5208.146	---	PASS
	Ant1	5230	36.012	5212.059	5248.071	---	PASS
	Ant2	5230	36.213	5211.993	5248.206	---	PASS
11AC80MIMO	Ant1	5210	75.563	5172.299	5247.862	---	PASS
	Ant2	5210	75.279	5172.478	5247.757	---	PASS

Test Graphs

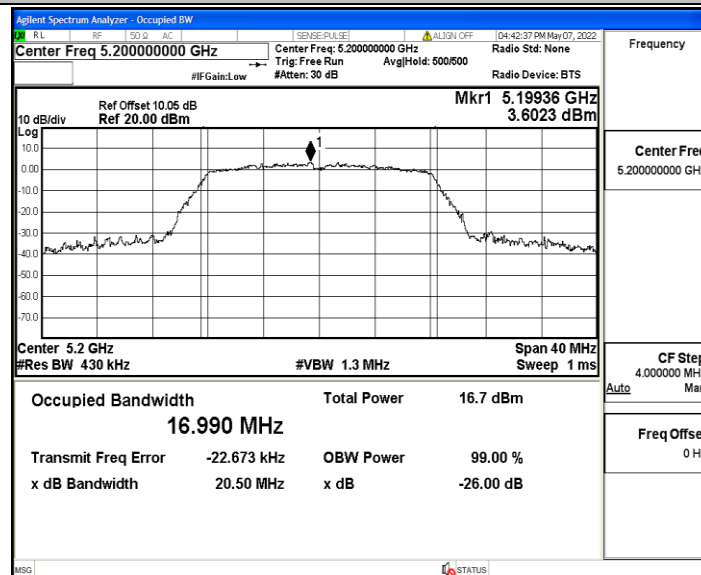
11A_Ant1_5180



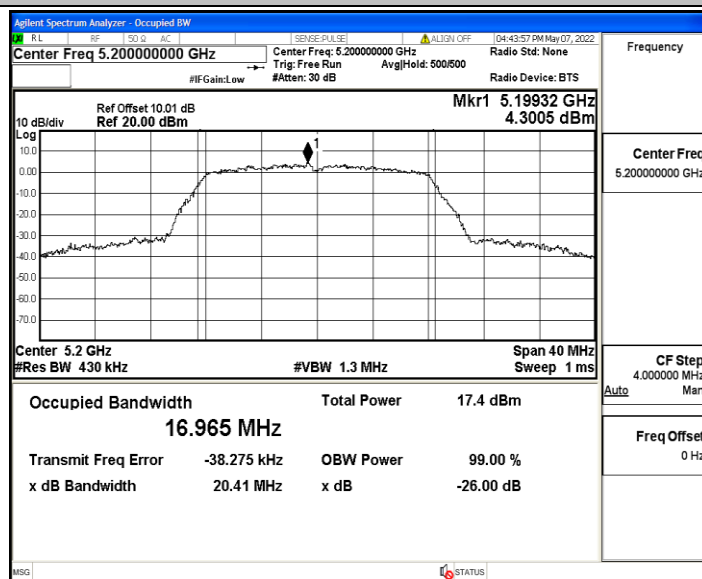
11A_Ant2_5180



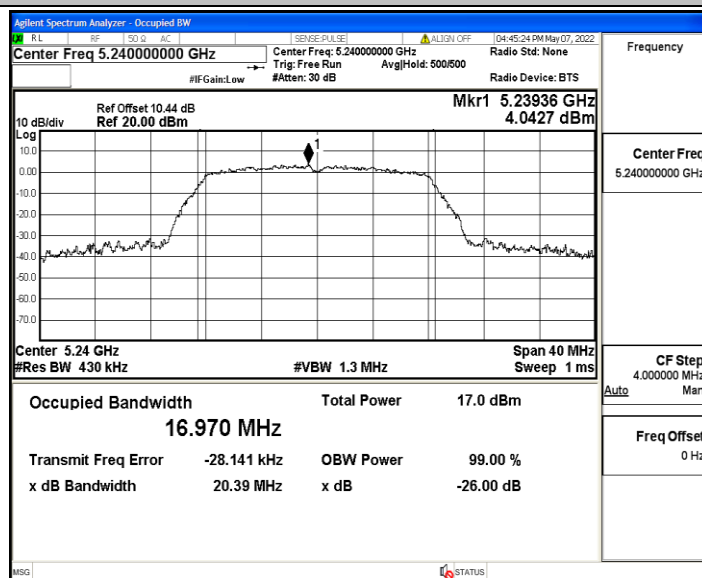
11A_Ant1_5200



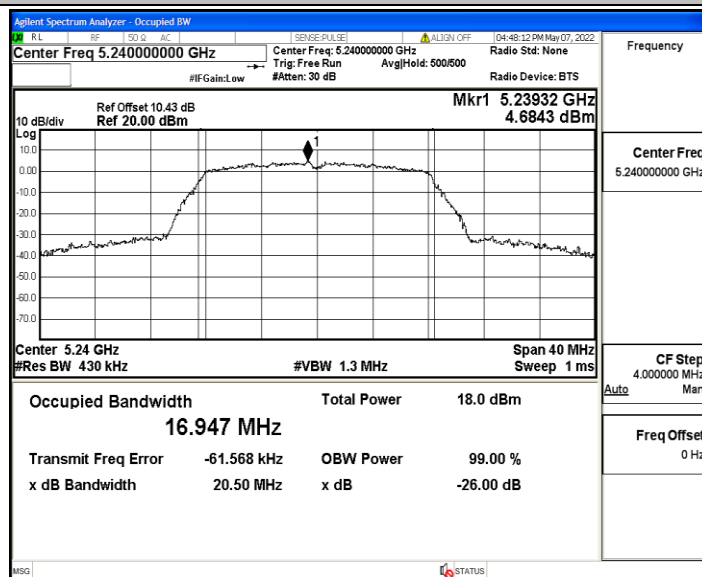
11A_Ant2_5200



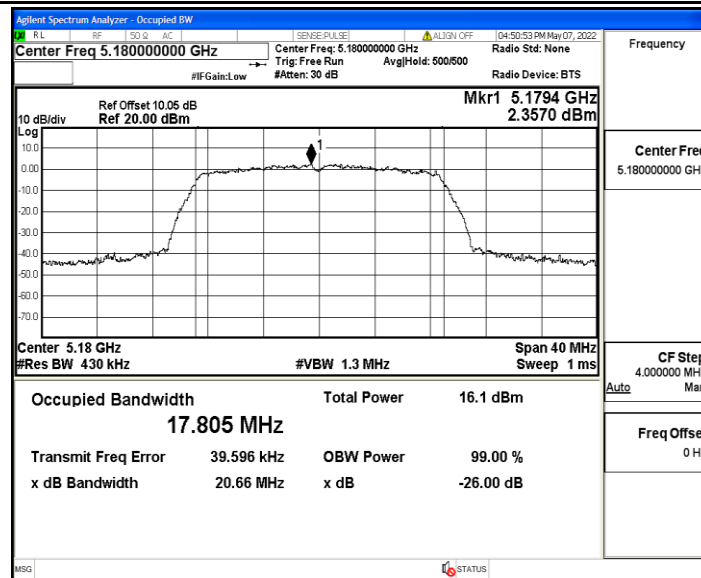
11A_Ant1_5240



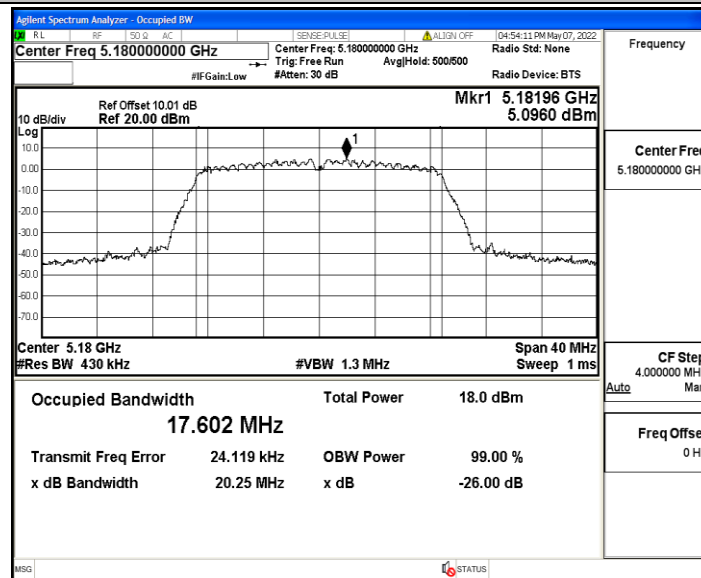
11A_Ant2_5240



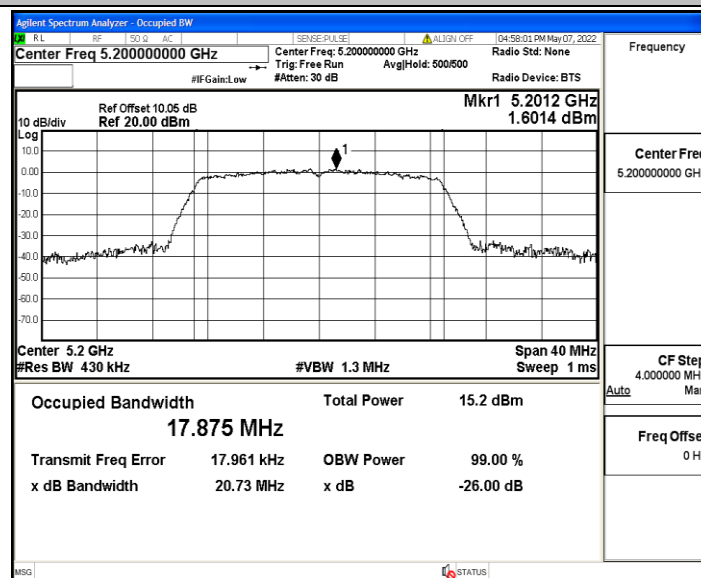
11N20MIMO_Ant1_5180



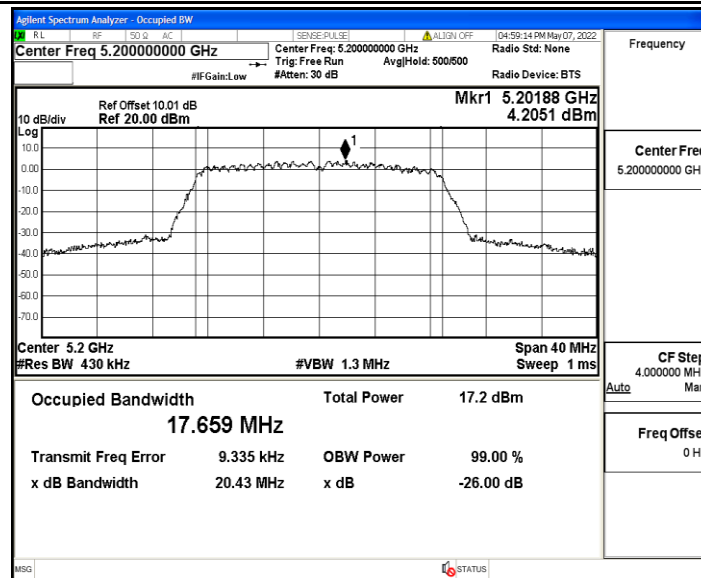
11N20MIMO_Ant2_5180



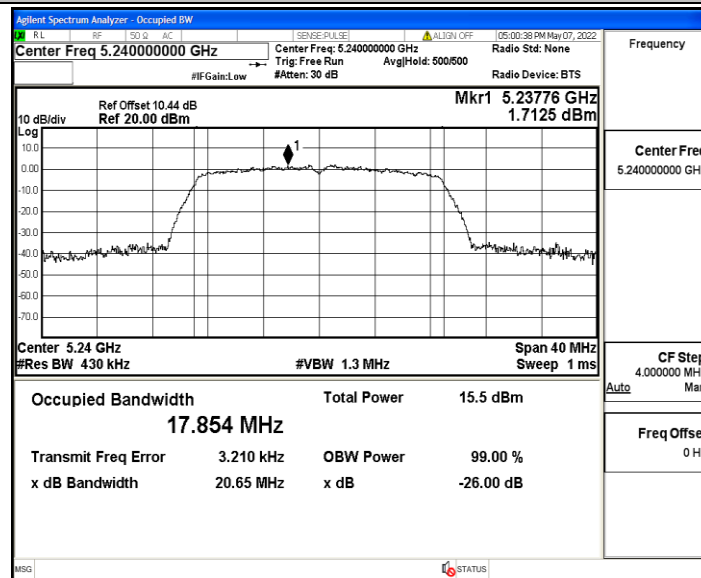
11N20MIMO_Ant1_5200



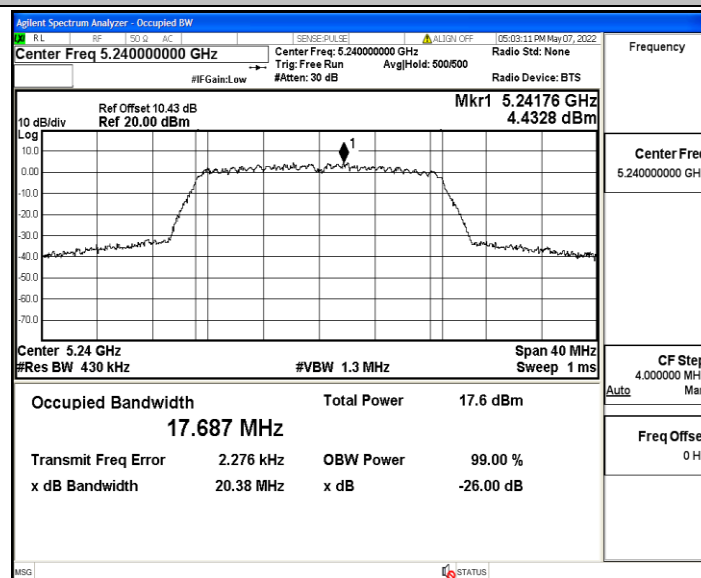
11N20MIMO_Ant2_5200



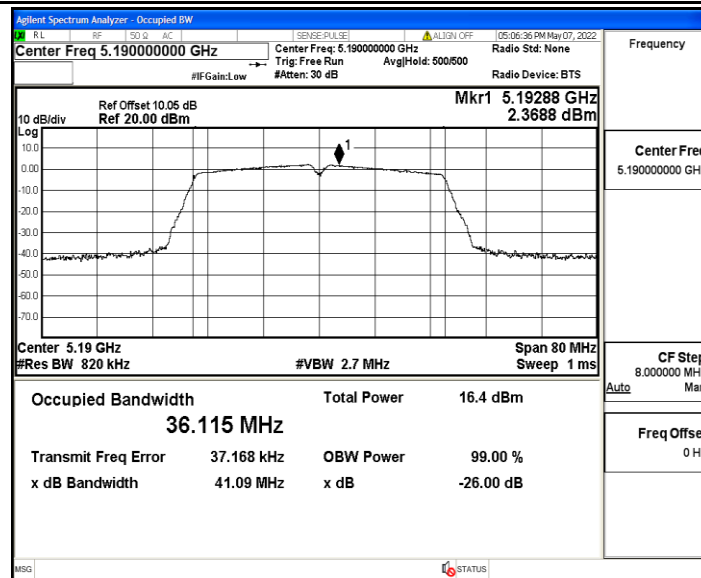
11N20MIMO_Ant1_5240



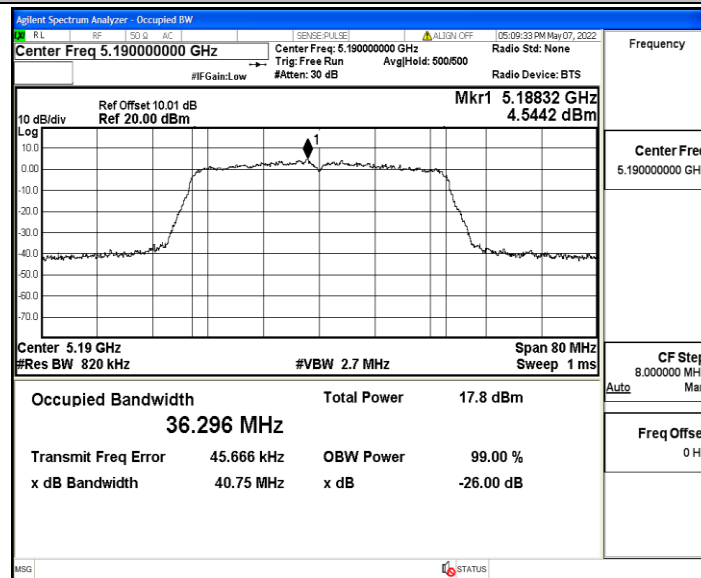
11N20MIMO_Ant2_5240



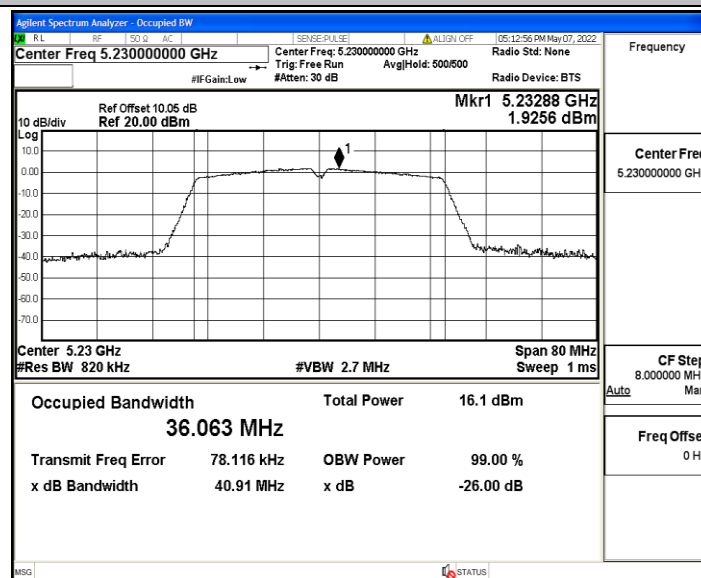
11N40MIMO_Ant1_5190



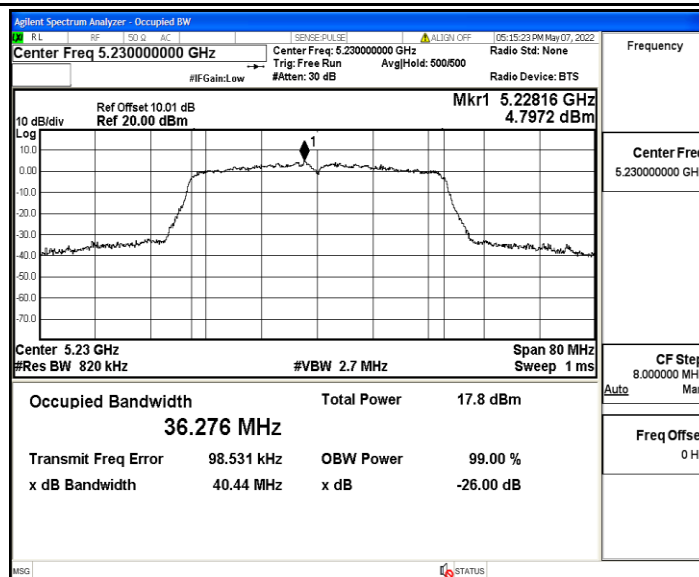
11N40MIMO_Ant2_5190



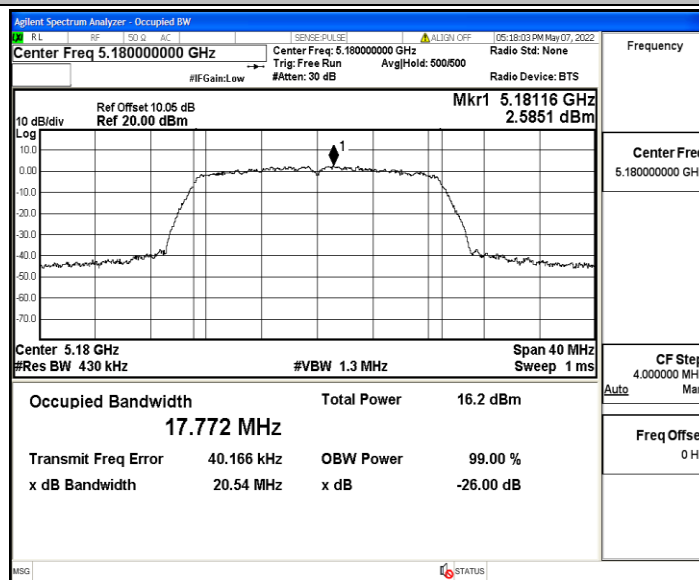
11N40MIMO_Ant1_5230



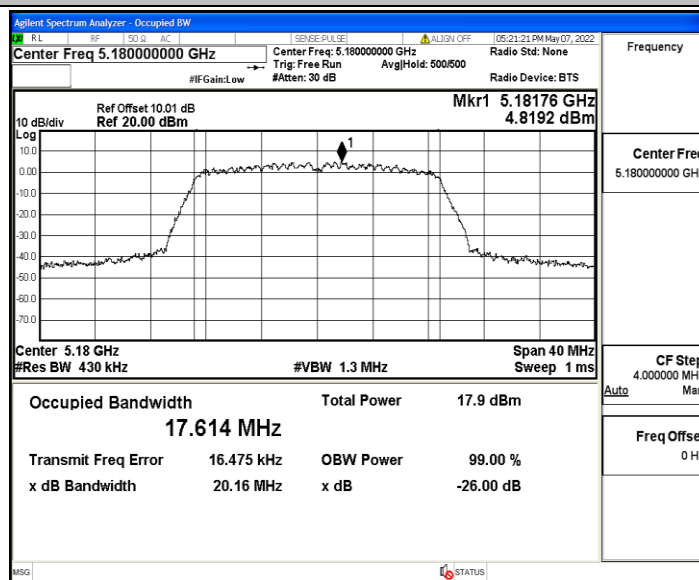
11N40MIMO_Ant2_5230



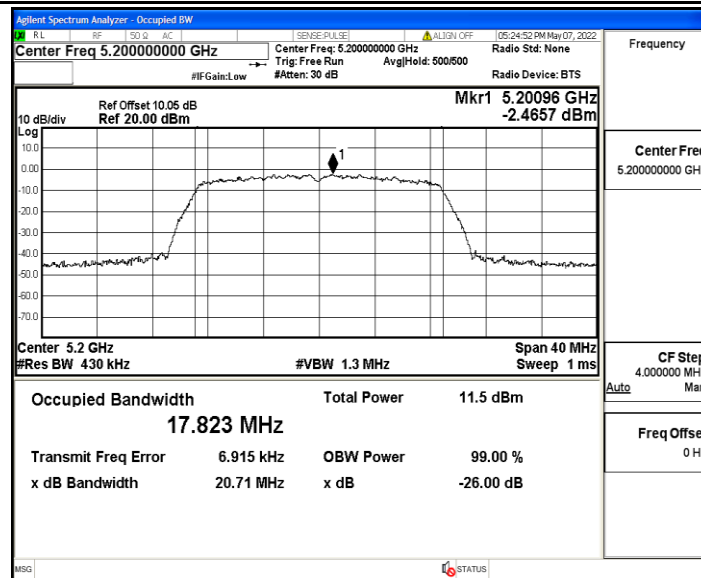
11AC20MIMO_Ant1_5180



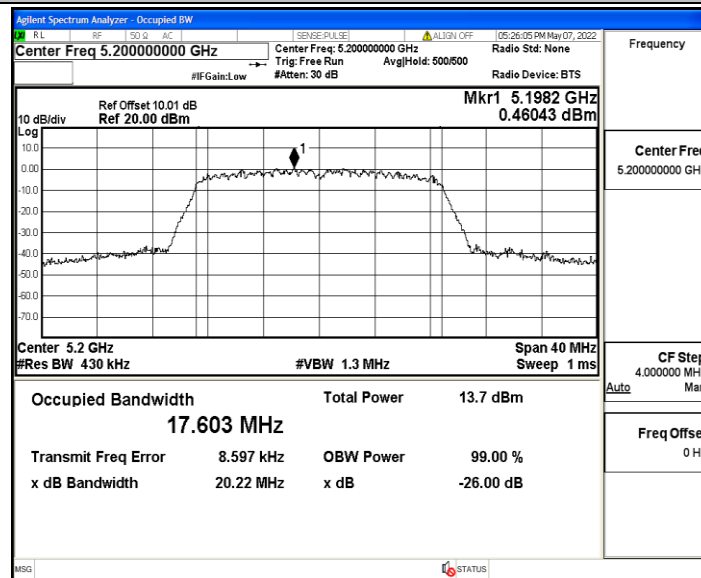
11AC20MIMO_Ant2_5180



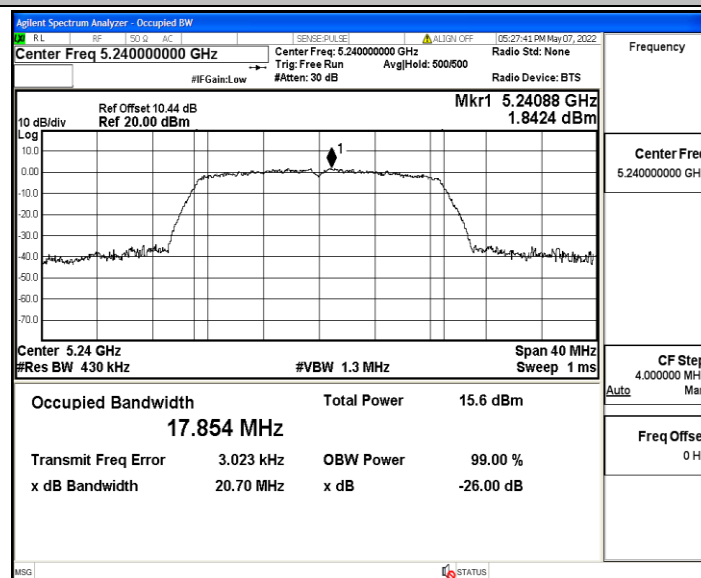
11AC20MIMO_Ant1_5200



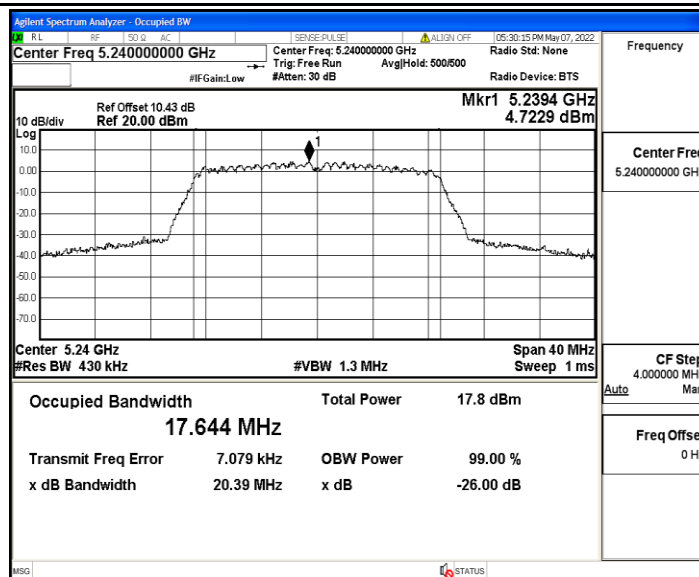
11AC20MIMO_Ant2_5200



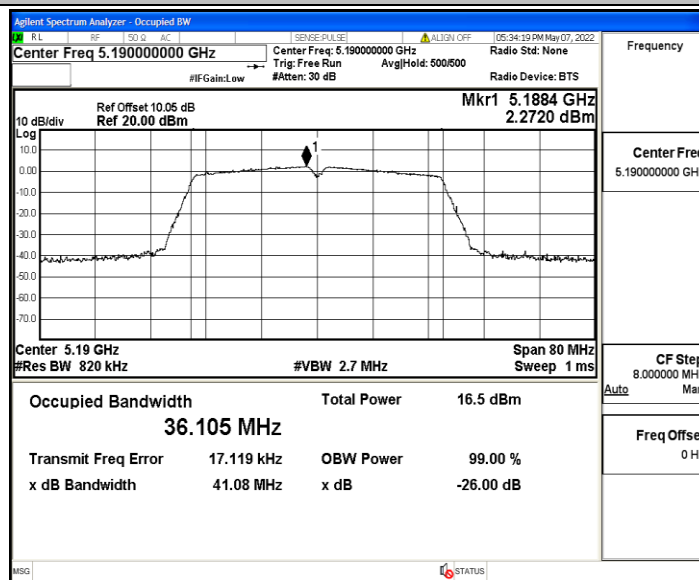
11AC20MIMO_Ant1_5240



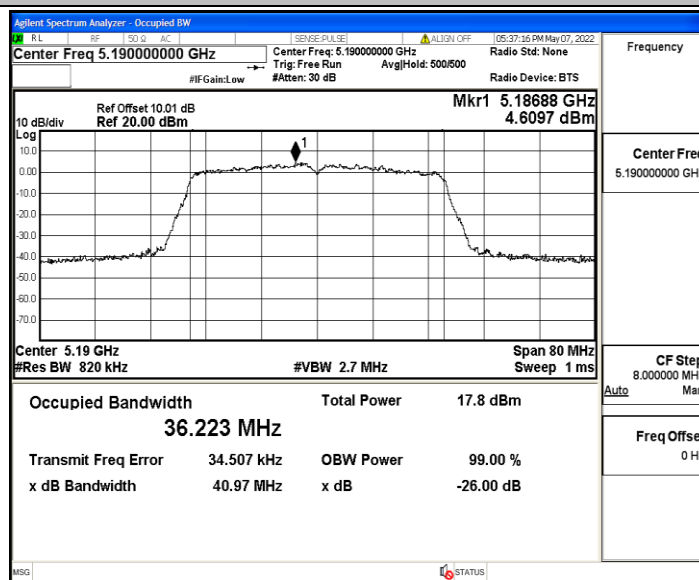
11AC20MIMO_Ant2_5240



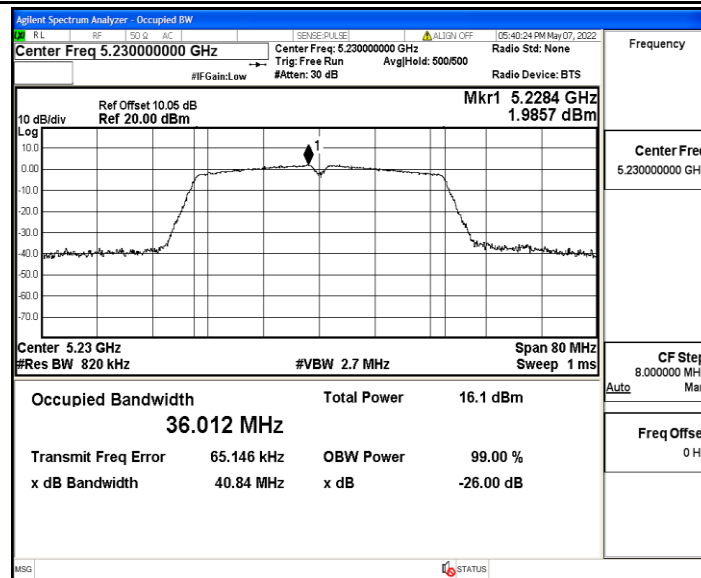
11AC40MIMO_Ant1_5190



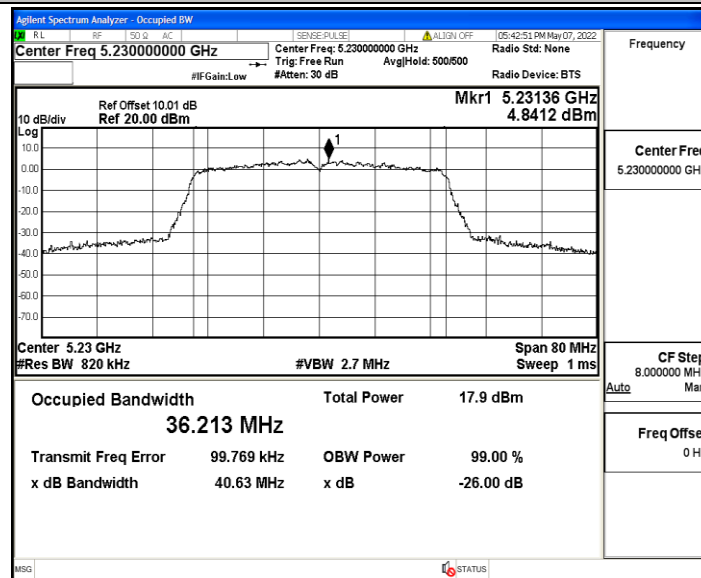
11AC40MIMO_Ant2_5190



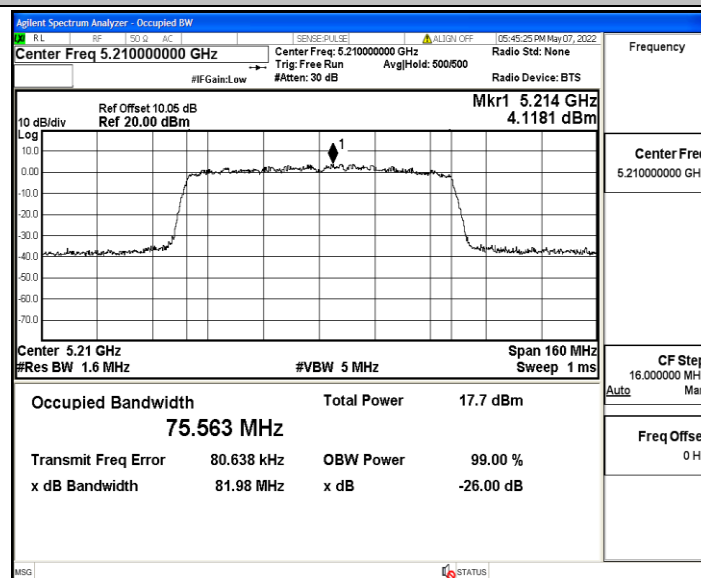
11AC40MIMO_Ant1_5230



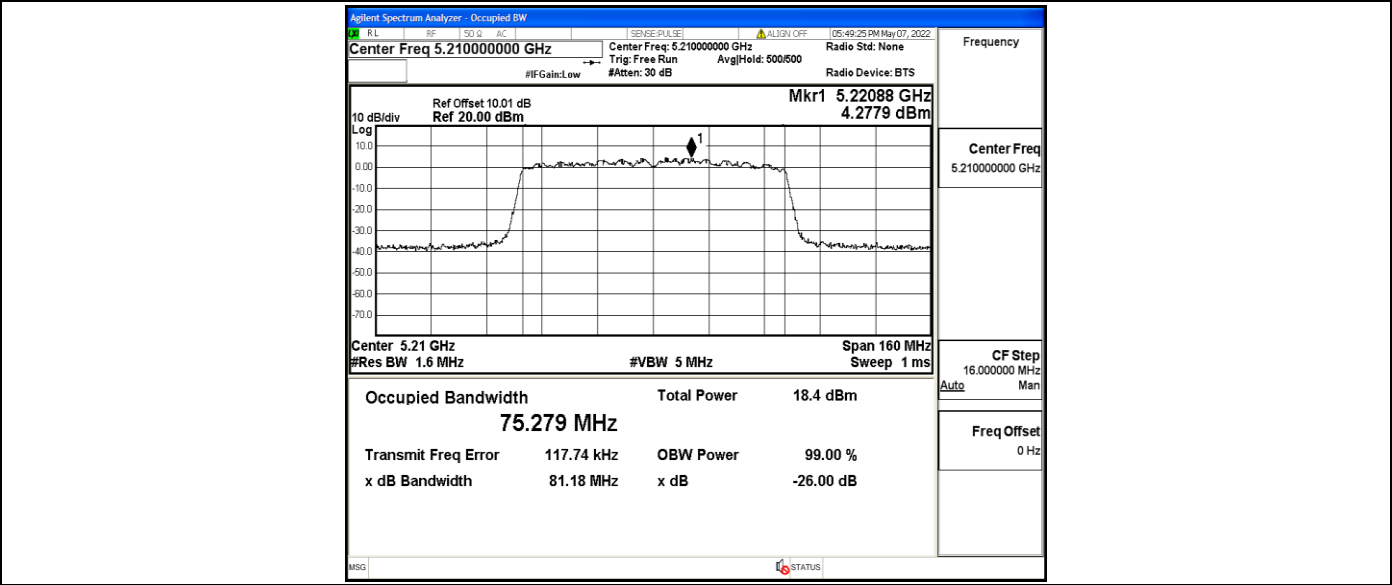
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.81	≤23.98	PASS
	Ant2	5180	11.44	≤23.98	PASS
	Ant1	5200	10.02	≤23.98	PASS
	Ant2	5200	10.67	≤23.98	PASS
	Ant1	5240	10.27	≤23.98	PASS
	Ant2	5240	11.38	≤23.98	PASS
11N20MIMO	Ant1	5180	9.47	≤23.98	PASS
	Ant2	5180	10.13	≤23.98	PASS
	total	5180	12.82	≤23.17	PASS
	Ant1	5200	8.51	≤23.98	PASS
	Ant2	5200	9.43	≤23.98	PASS
	total	5200	12.00	≤23.17	PASS
	Ant1	5240	8.84	≤23.98	PASS
	Ant2	5240	9.91	≤23.98	PASS
	total	5240	12.42	≤23.17	PASS
11N40MIMO	Ant1	5190	9.17	≤23.98	PASS
	Ant2	5190	9.75	≤23.98	PASS
	total	5190	12.48	≤23.17	PASS
	Ant1	5230	8.85	≤23.98	PASS
	Ant2	5230	9.78	≤23.98	PASS
	total	5230	12.35	≤23.17	PASS
11AC20MIMO	Ant1	5180	9.42	≤23.98	PASS
	Ant2	5180	10.07	≤23.98	PASS
	total	5180	12.77	≤23.17	PASS
	Ant1	5200	4.71	≤23.98	PASS
	Ant2	5200	5.69	≤23.98	PASS
	total	5200	8.24	≤23.17	PASS
	Ant1	5240	8.91	≤23.98	PASS
	Ant2	5240	9.92	≤23.98	PASS
	total	5240	12.45	≤23.17	PASS
11AC40MIMO	Ant1	5190	9.20	≤23.98	PASS
	Ant2	5190	9.75	≤23.98	PASS
	total	5190	12.49	≤23.17	PASS
	Ant1	5230	8.92	≤23.98	PASS
	Ant2	5230	9.83	≤23.98	PASS
	total	5230	12.41	≤23.17	PASS
11AC80MIMO	Ant1	5210	8.88	≤23.98	PASS
	Ant2	5210	9.45	≤23.98	PASS
	total	5210	12.18	≤23.17	PASS

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

Appendix C: Maximum power spectral density

Test Result

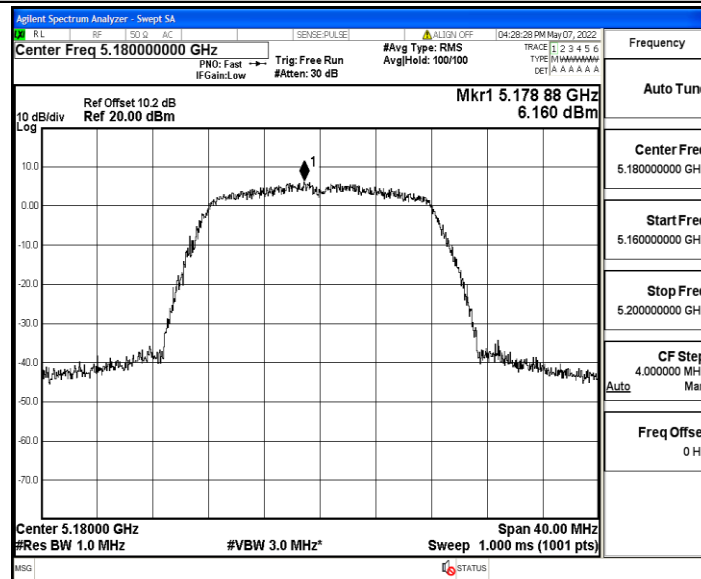
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.16	≤11	PASS
	Ant2	5180	7.21	≤11	PASS
	Ant1	5200	5.61	≤11	PASS
	Ant2	5200	6.02	≤11	PASS
	Ant1	5240	5.84	≤11	PASS
	Ant2	5240	6.48	≤11	PASS
11N20MIMO	Ant1	5180	4.29	≤11	PASS
	Ant2	5180	7.02	≤11	PASS
	total	5180	8.88	≤10.19	PASS
	Ant1	5200	3.29	≤11	PASS
	Ant2	5200	5.14	≤11	PASS
	total	5200	7.32	≤10.19	PASS
	Ant1	5240	3.5	≤11	PASS
	Ant2	5240	6.38	≤11	PASS
	total	5240	8.18	≤10.19	PASS
11N40MIMO	Ant1	5190	1.48	≤11	PASS
	Ant2	5190	3.99	≤11	PASS
	total	5190	5.92	≤10.19	PASS
	Ant1	5230	2.08	≤11	PASS
	Ant2	5230	3.57	≤11	PASS
	total	5230	5.90	≤10.19	PASS
11AC20MIMO	Ant1	5180	4.34	≤11	PASS
	Ant2	5180	6.03	≤11	PASS
	total	5180	8.28	≤10.19	PASS
	Ant1	5200	-0.47	≤11	PASS
	Ant2	5200	2.23	≤11	PASS
	total	5200	4.10	≤10.19	PASS
	Ant1	5240	3.6	≤11	PASS
	Ant2	5240	6.04	≤11	PASS
	total	5240	8.00	≤10.19	PASS
11AC40MIMO	Ant1	5190	1.7	≤11	PASS
	Ant2	5190	4.11	≤11	PASS
	total	5190	6.08	≤10.19	PASS
	Ant1	5230	1.09	≤11	PASS
	Ant2	5230	3.02	≤11	PASS
	total	5230	5.17	≤10.19	PASS
11AC80MIMO	Ant1	5210	-1.74	≤11	PASS
	Ant2	5210	0.76	≤11	PASS
	total	5210	2.70	≤10.19	PASS

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

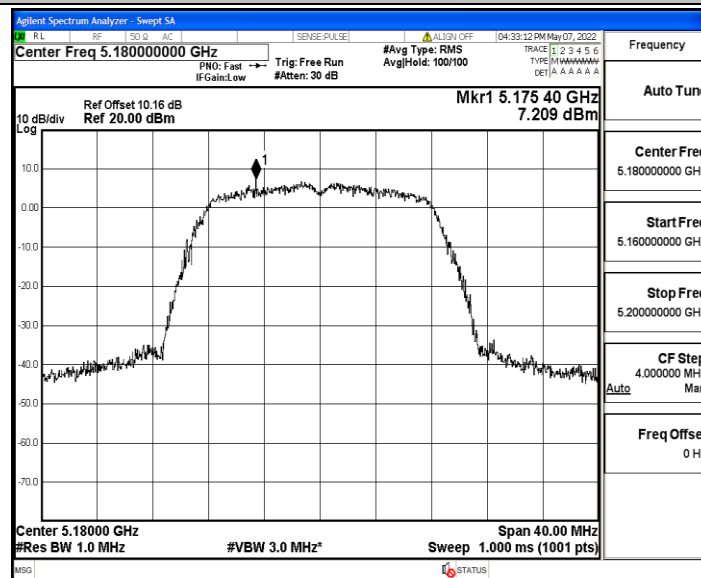
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

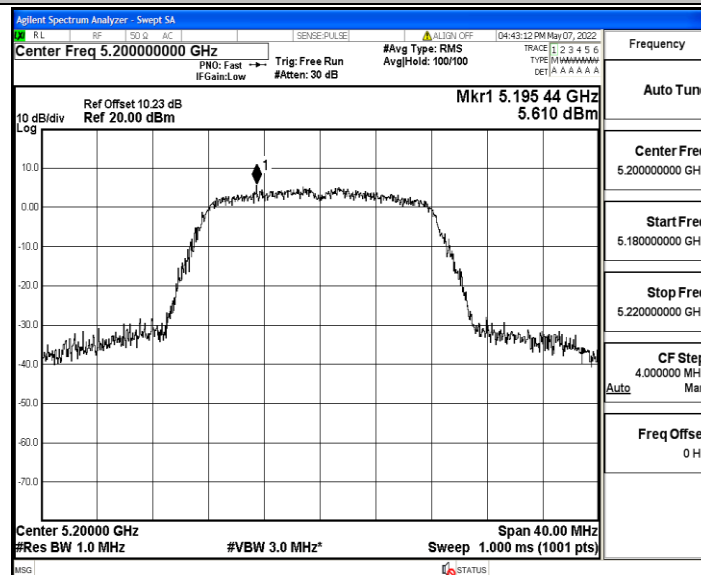
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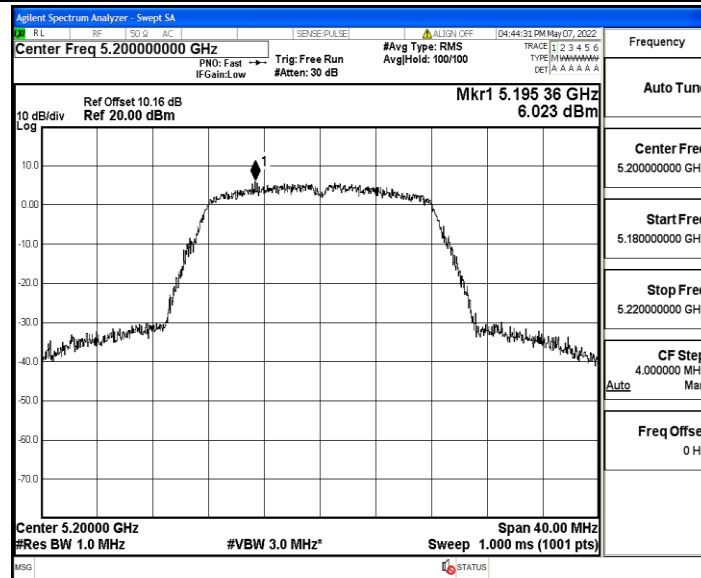
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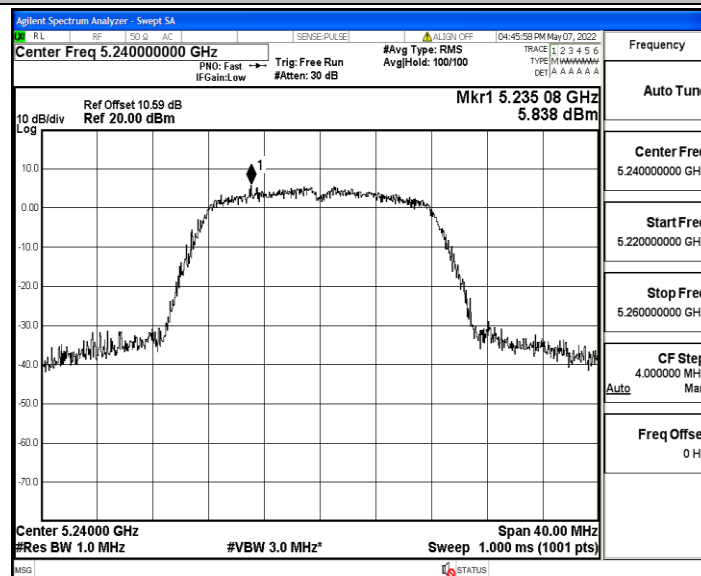
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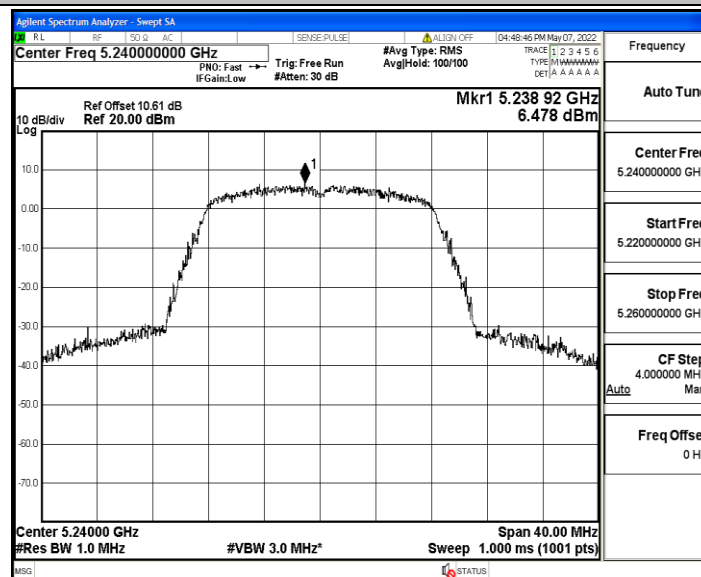
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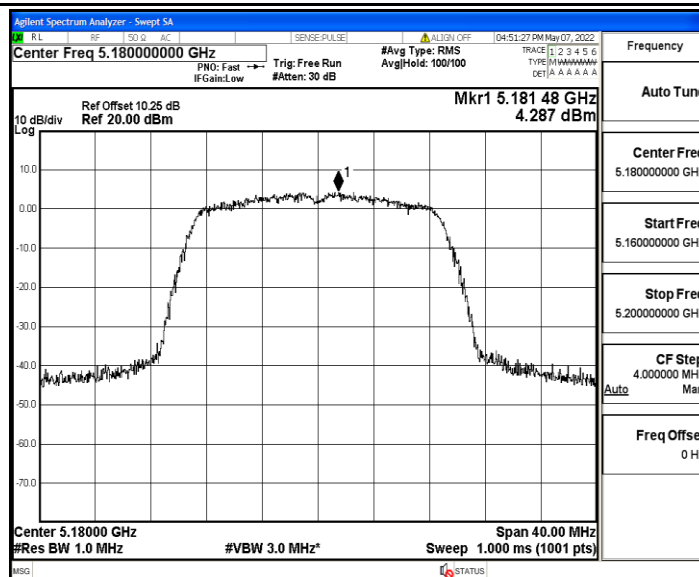
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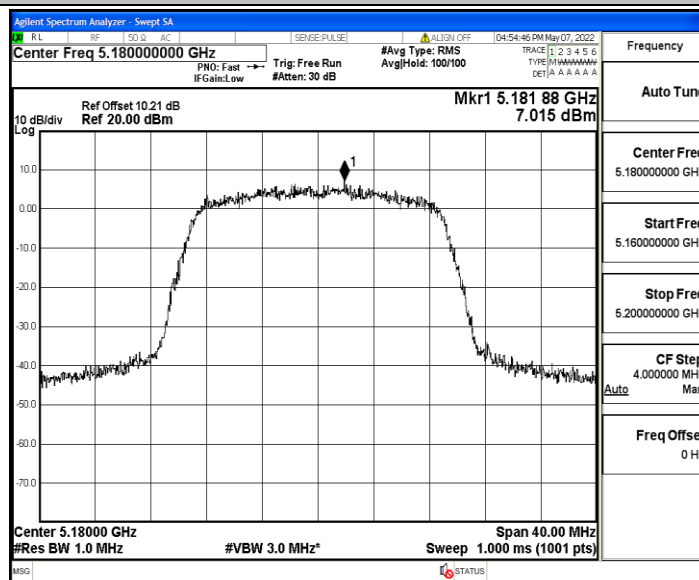
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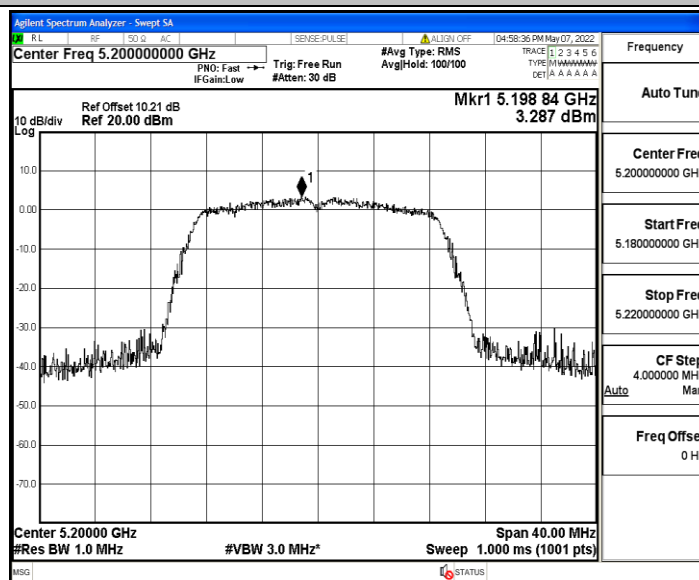
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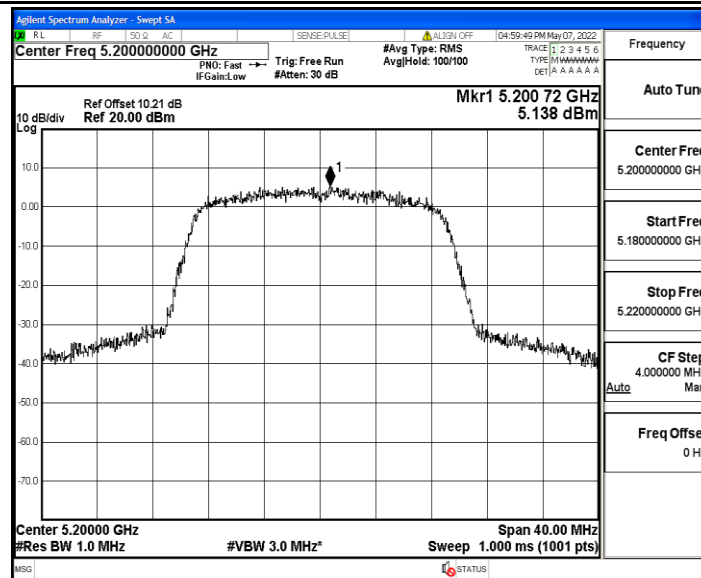
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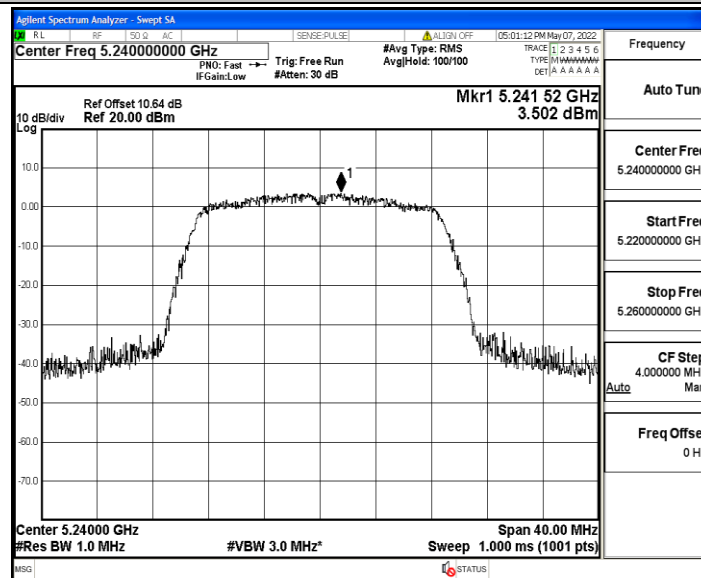
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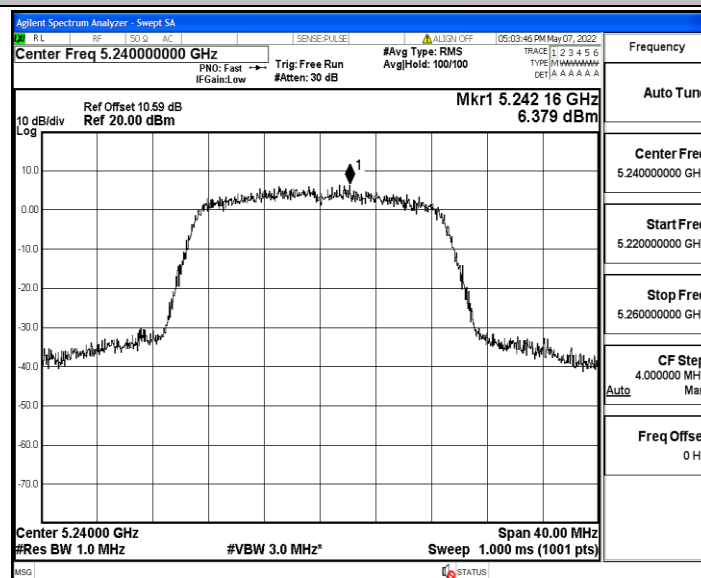
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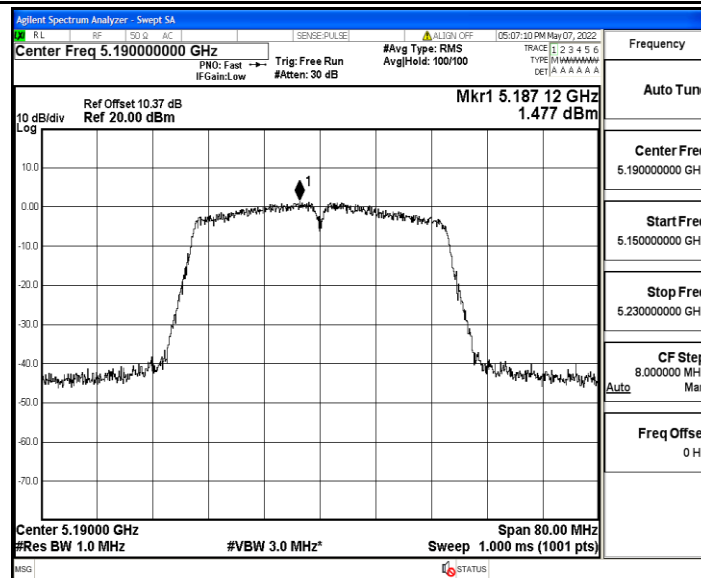
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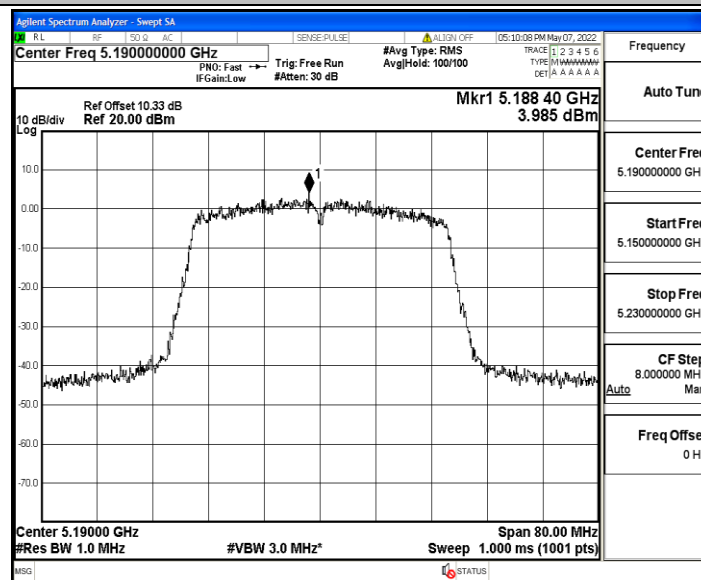
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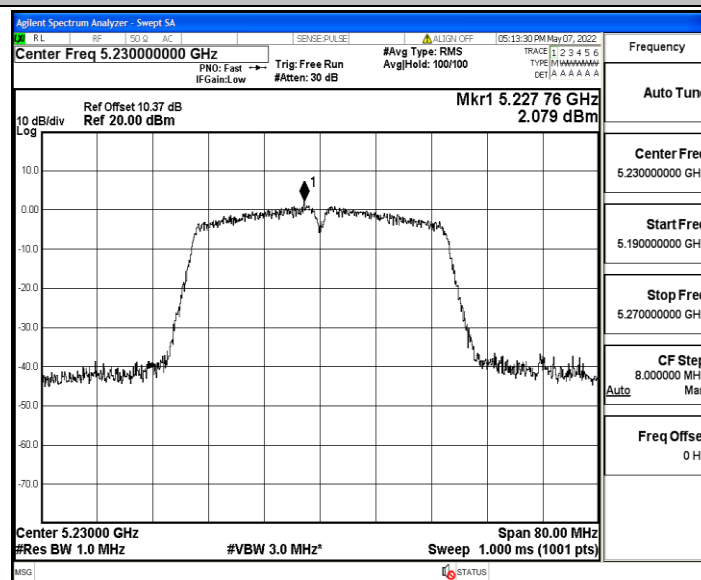
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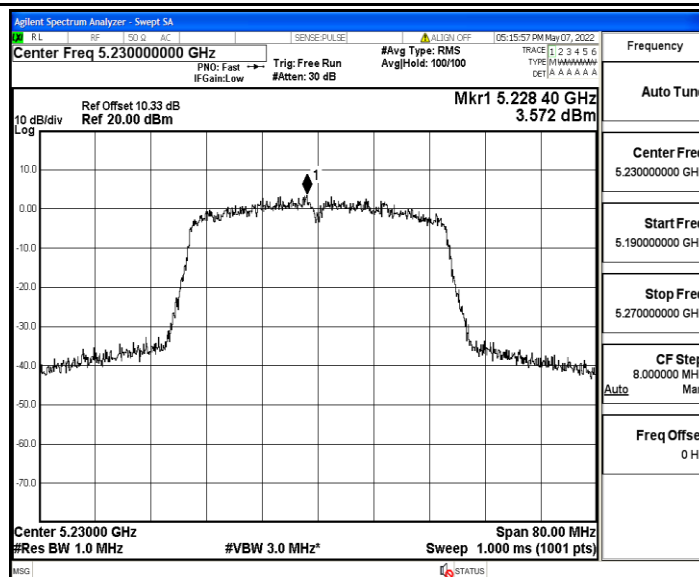
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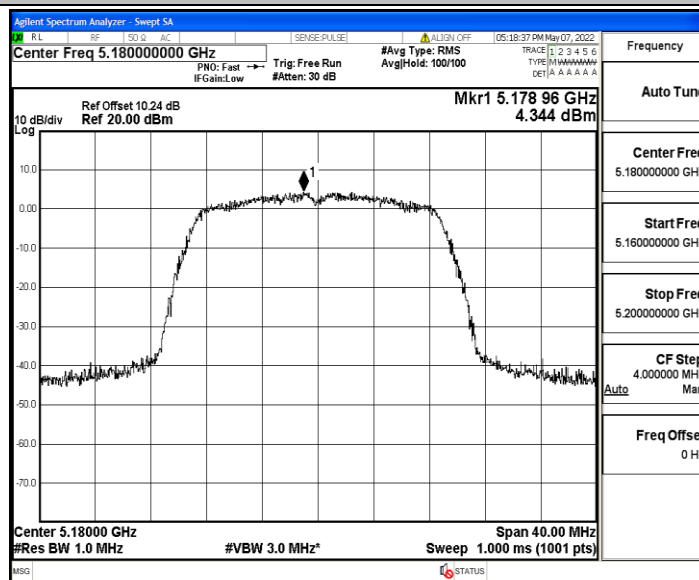
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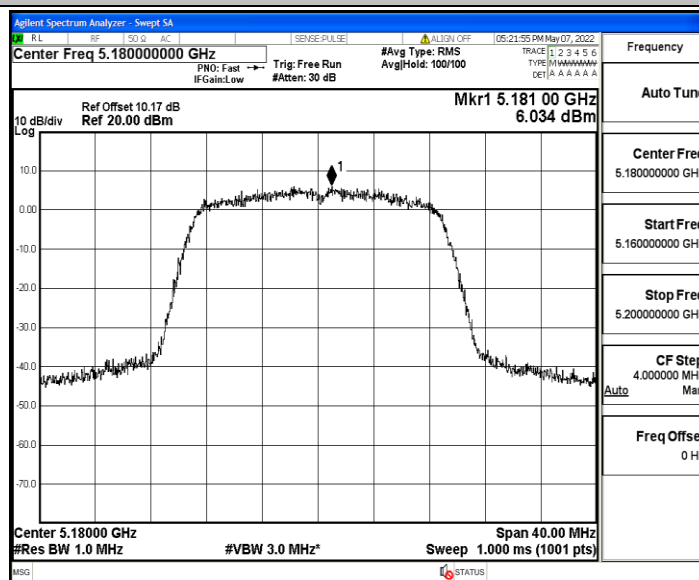
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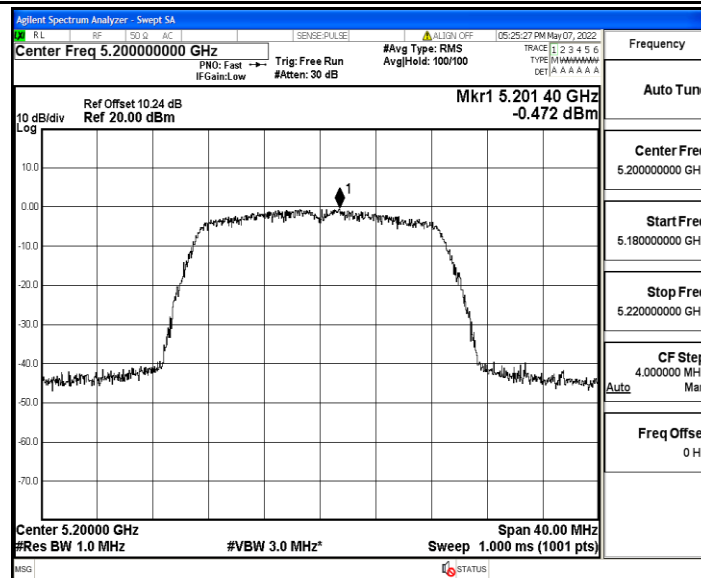
11AC20MIMO Ant1 5180



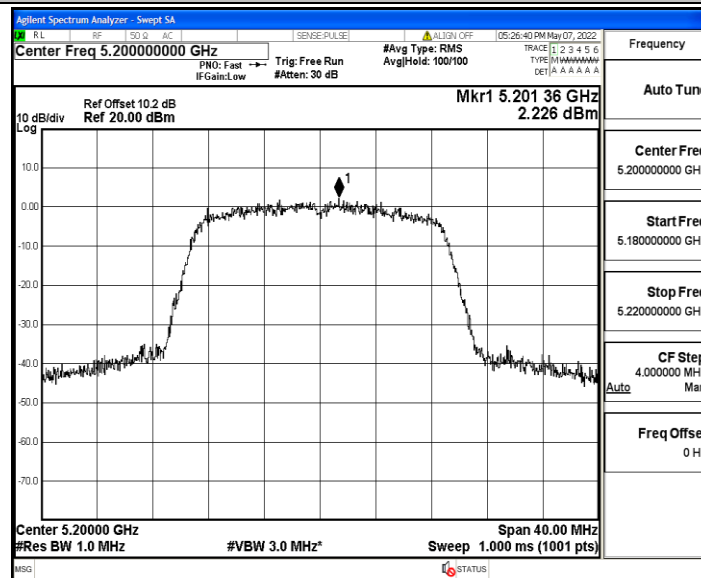
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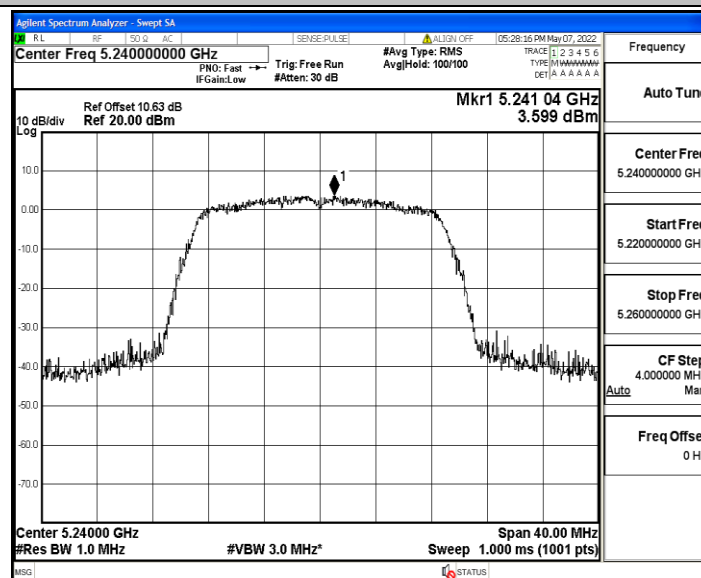
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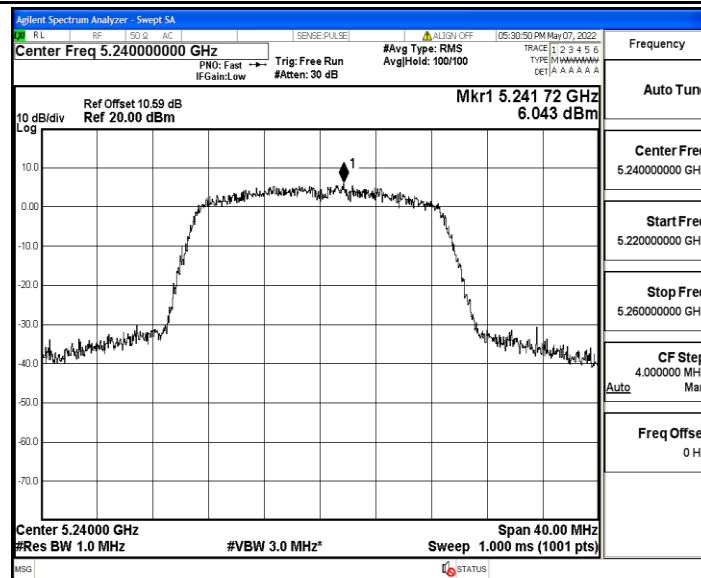
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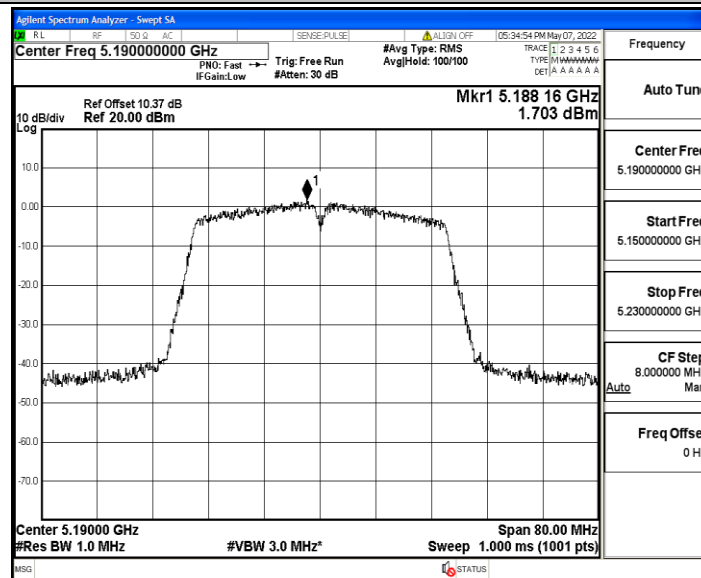
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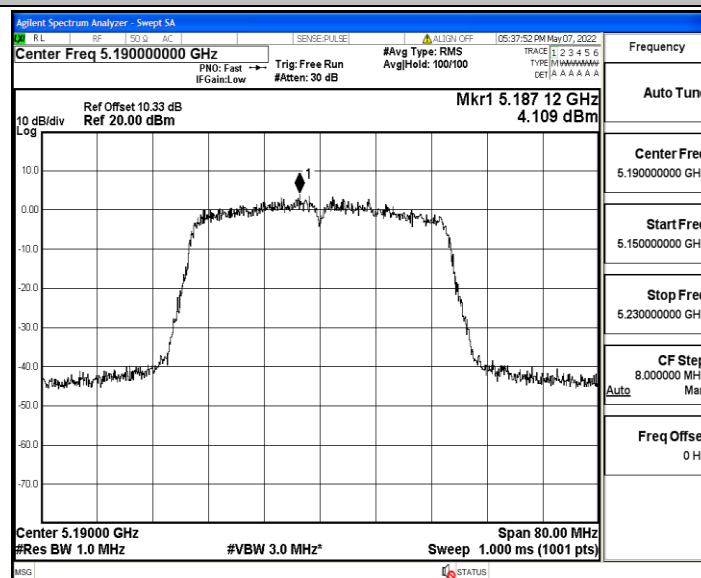
11AC20MIMO_Ant2_5240



11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



11AC40MIMO_Ant1_5230