

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

Product Name: 4K Set Top Box

Trade Mark: N/A

Test Model: Box R 4K-SX6BHES

FCC ID: 2AOVU-SN6BHXY

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

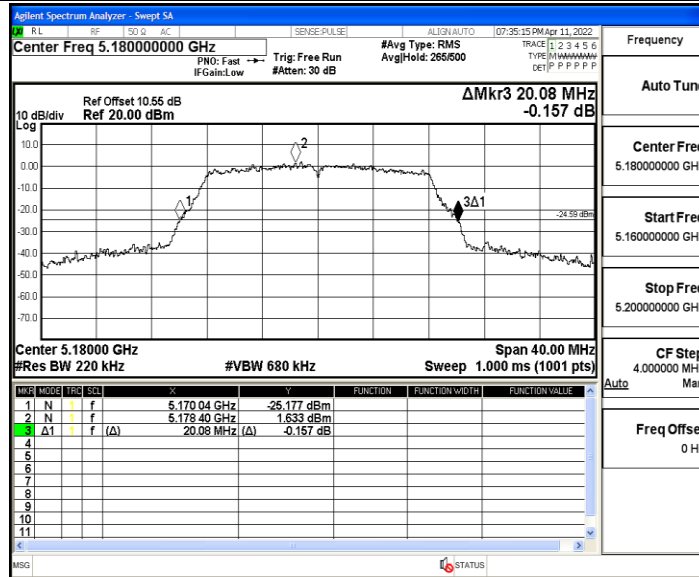
Appendix A1: Emission Bandwidth

Test Result

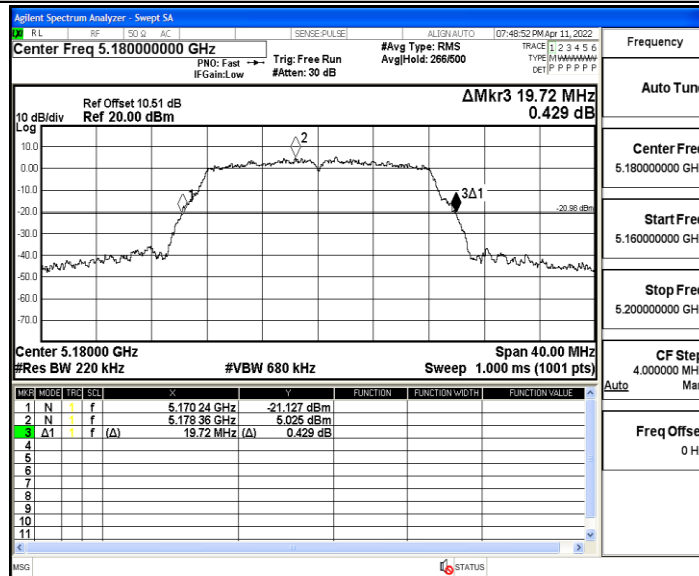
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.080	5170.040	5190.120	---	---
	Ant2	5180	19.720	5170.240	5189.960	---	---
	Ant1	5200	20.720	5189.360	5210.080	---	---
	Ant2	5200	19.960	5190.120	5210.080	---	---
	Ant1	5240	20.480	5229.720	5250.200	---	---
	Ant2	5240	20.040	5230.040	5250.080	---	---
11N20MIMO	Ant1	5180	20.040	5170.000	5190.040	---	---
	Ant2	5180	20.200	5169.920	5190.120	---	---
	Ant1	5200	20.480	5189.800	5210.280	---	---
	Ant2	5200	20.360	5189.840	5210.200	---	---
	Ant1	5240	20.240	5229.920	5250.160	---	---
	Ant2	5240	20.280	5229.880	5250.160	---	---
11N40MIMO	Ant1	5190	40.320	5169.840	5210.160	---	---
	Ant2	5190	40.000	5170.240	5210.240	---	---
	Ant1	5230	40.400	5210.000	5250.400	---	---
	Ant2	5230	39.760	5210.240	5250.000	---	---
11AC20MIMO	Ant1	5180	20.000	5170.040	5190.040	---	---
	Ant2	5180	20.120	5169.920	5190.040	---	---
	Ant1	5200	20.320	5189.880	5210.200	---	---
	Ant2	5200	20.280	5189.840	5210.120	---	---
	Ant1	5240	20.160	5229.920	5250.080	---	---
	Ant2	5240	20.360	5229.840	5250.200	---	---
11AC40MIMO	Ant1	5190	40.320	5169.760	5210.080	---	---
	Ant2	5190	39.680	5170.240	5209.920	---	---
	Ant1	5230	40.320	5209.840	5250.160	---	---
	Ant2	5230	39.760	5210.080	5249.840	---	---
11AC80MIMO	Ant1	5210	81.280	5169.520	5250.800	---	---
	Ant2	5210	80.320	5170.160	5250.480	---	---

Test Graphs

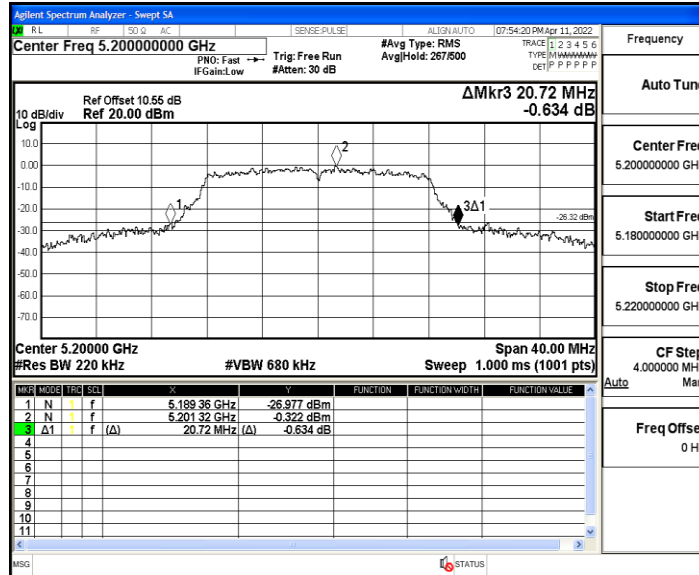
11A_Ant1_5180



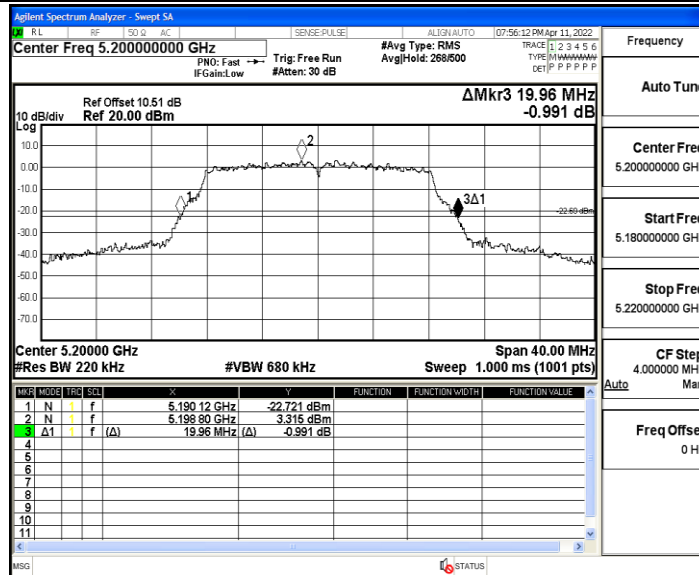
11A_Ant2_5180



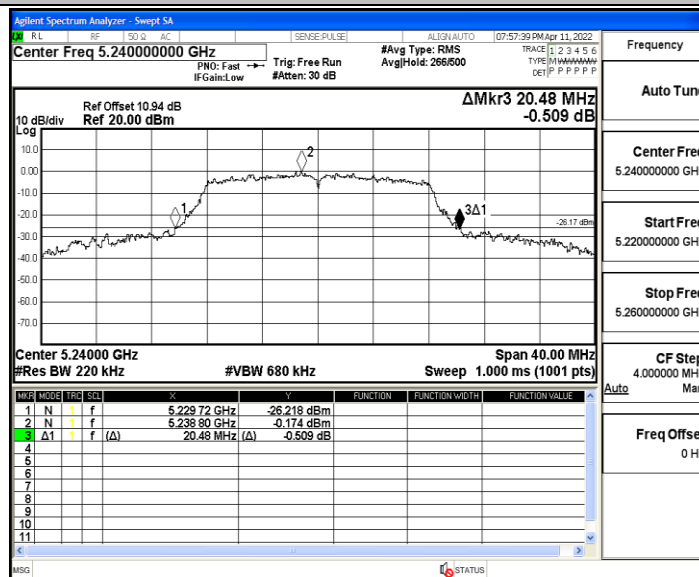
11A_Ant1_5200



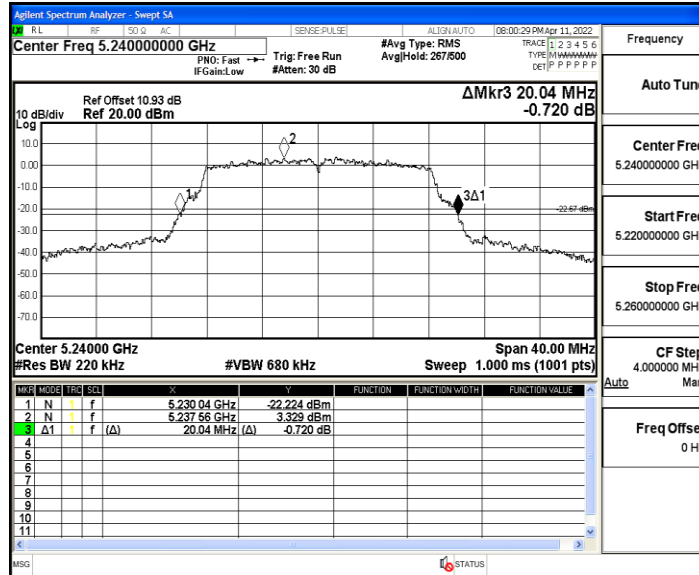
11A_Ant2_5200



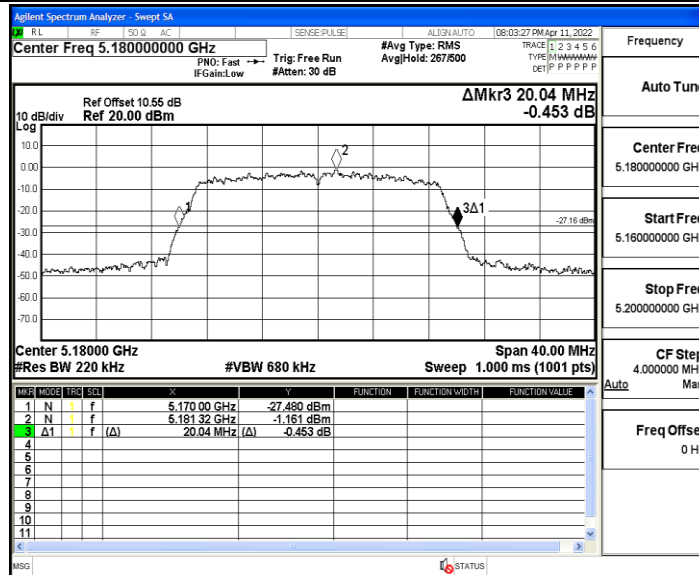
11A_Ant1_5240



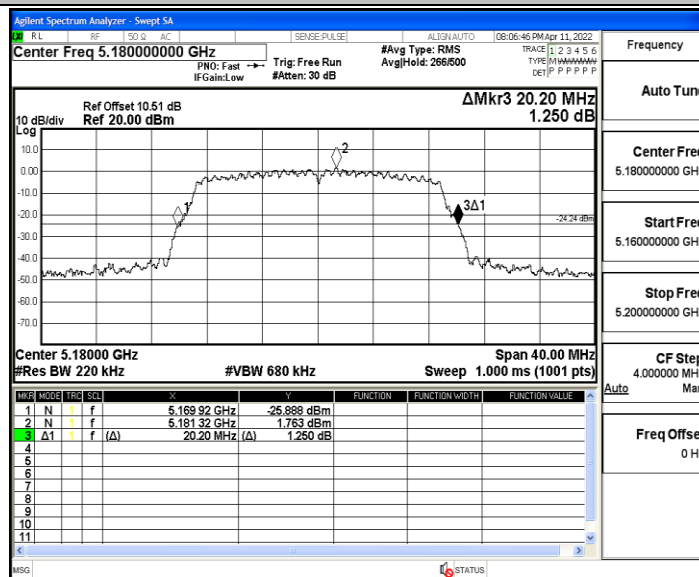
11A_Ant2_5240



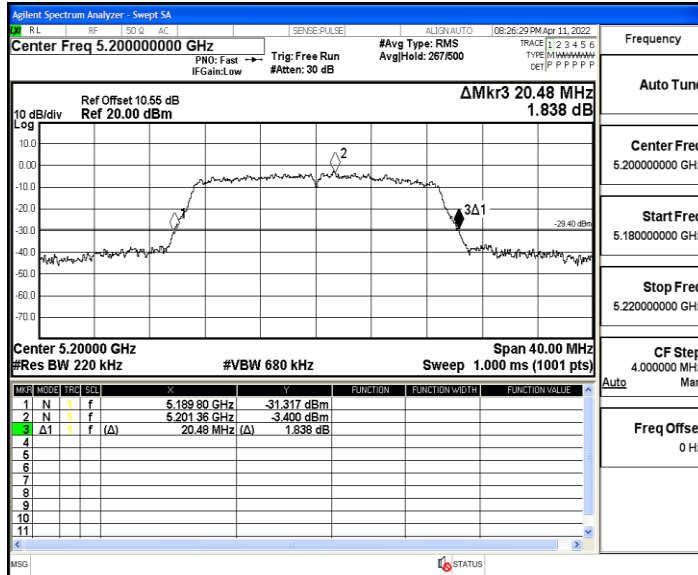
11N20MIMO_Ant1_5180



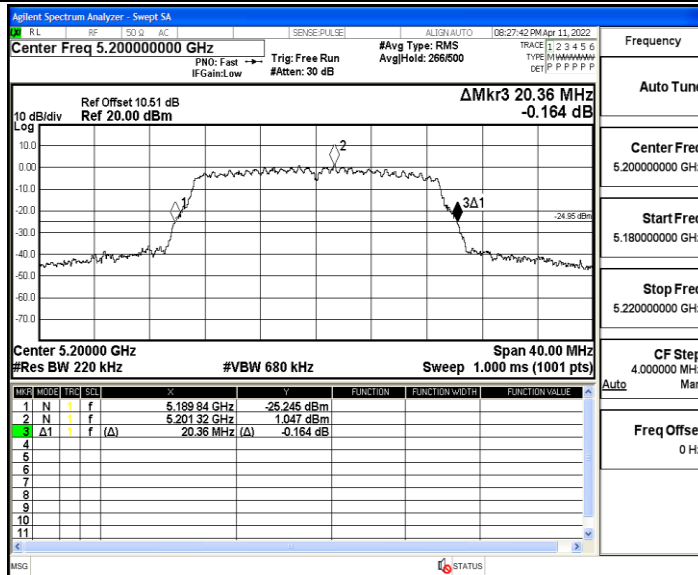
11N20MIMO_Ant2_5180



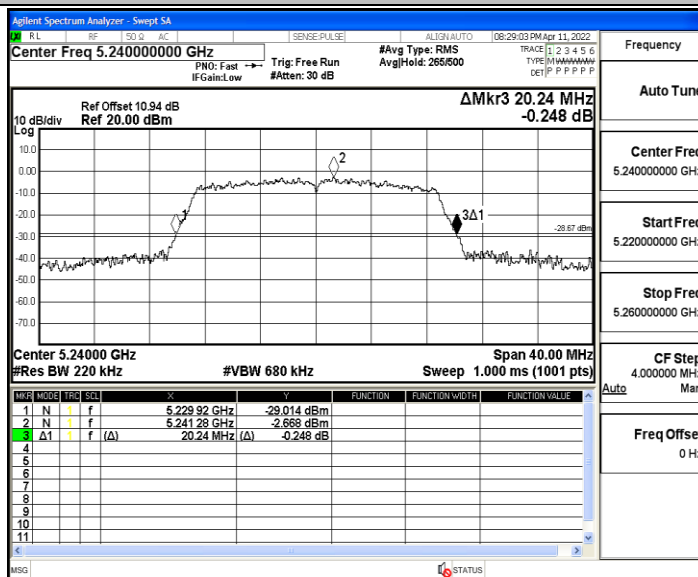
11N20MIMO_Ant1_5200



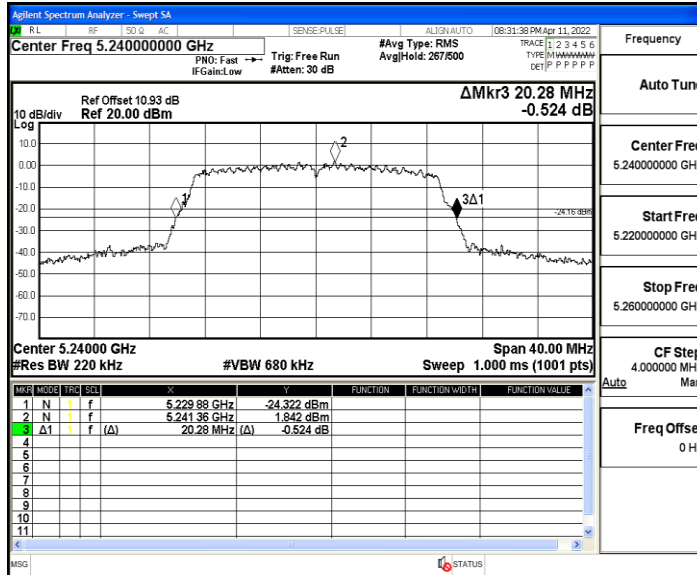
11N20MIMO_Ant2_5200



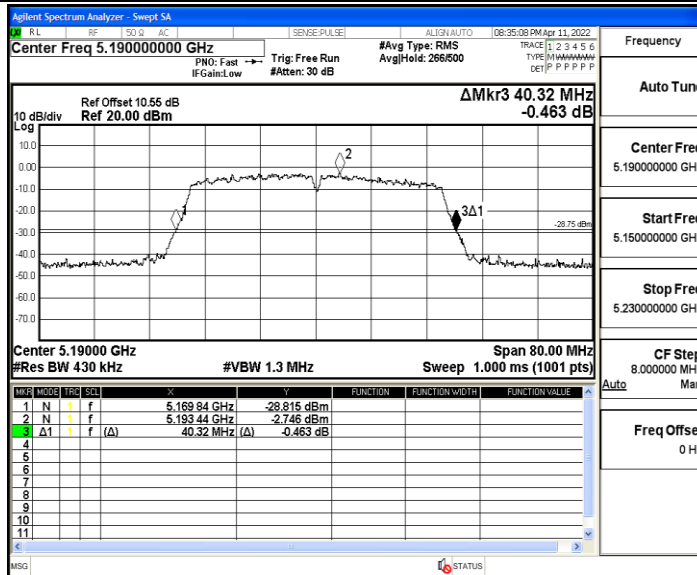
11N20MIMO_Ant1_5240



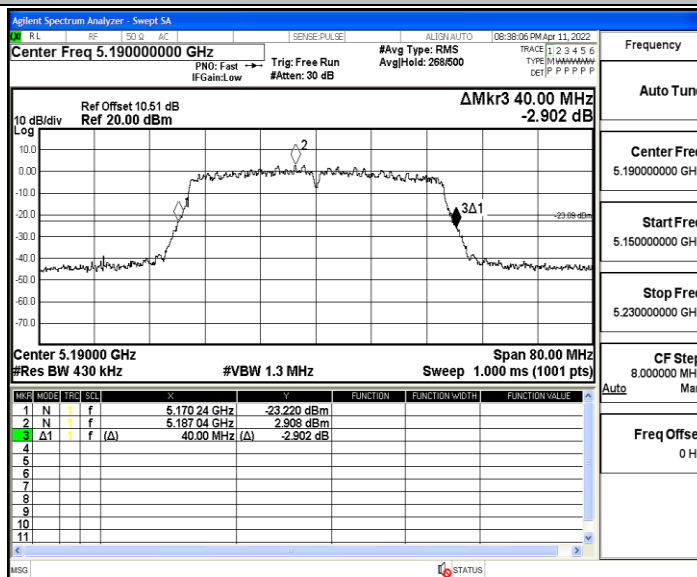
11N20MIMO_Ant2_5240



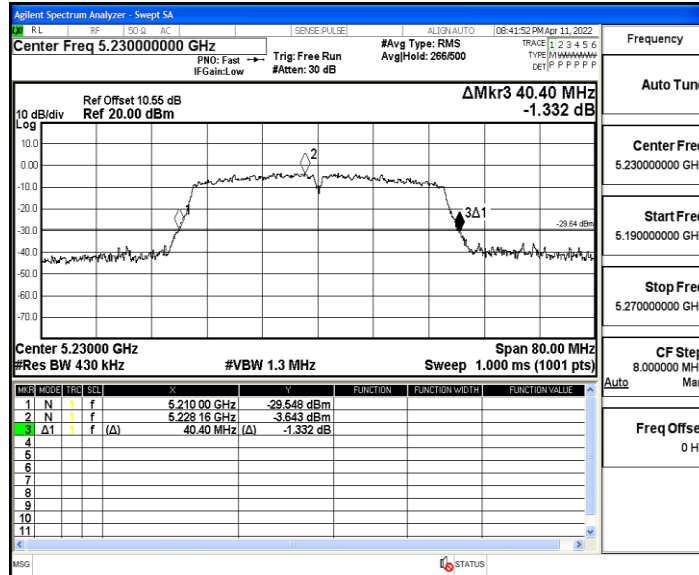
11N40MIMO_Ant1_5190



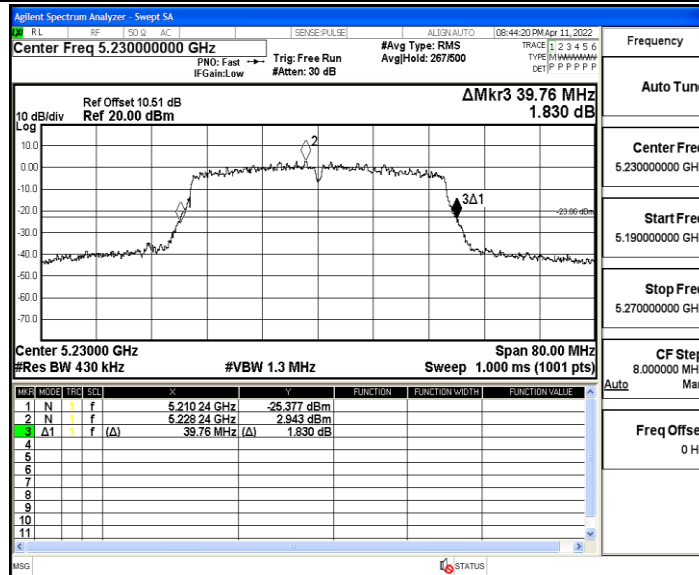
11N40MIMO_Ant2_5190



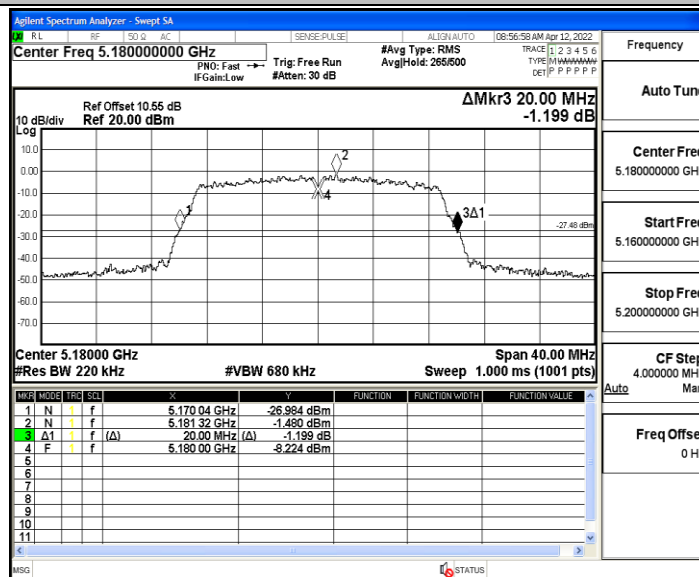
11N40MIMO_Ant1_5230



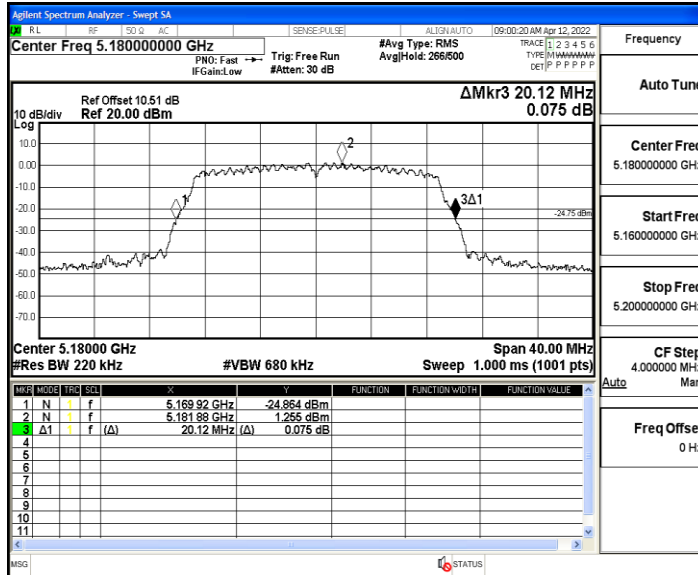
11N40MIMO_Ant2_5230



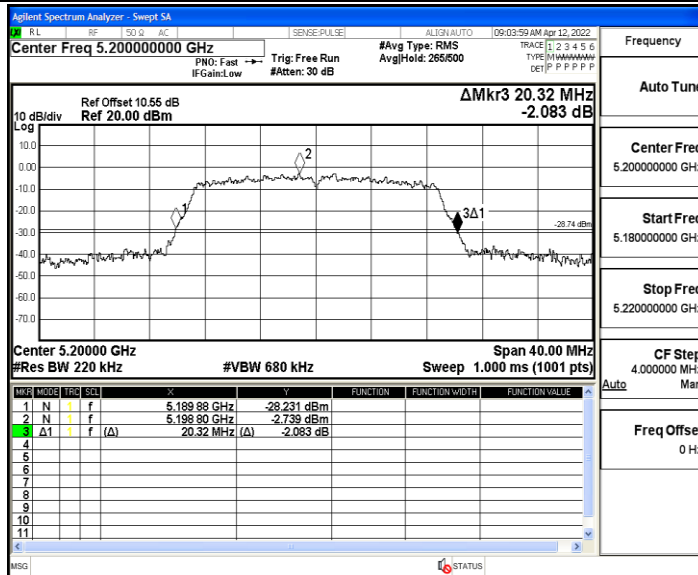
11AC20MIMO_Ant1_5180



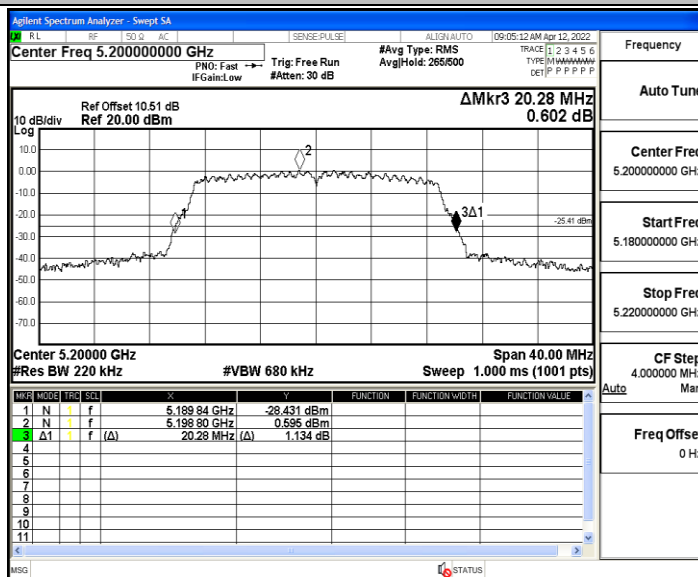
11AC20MIMO_Ant2_5180



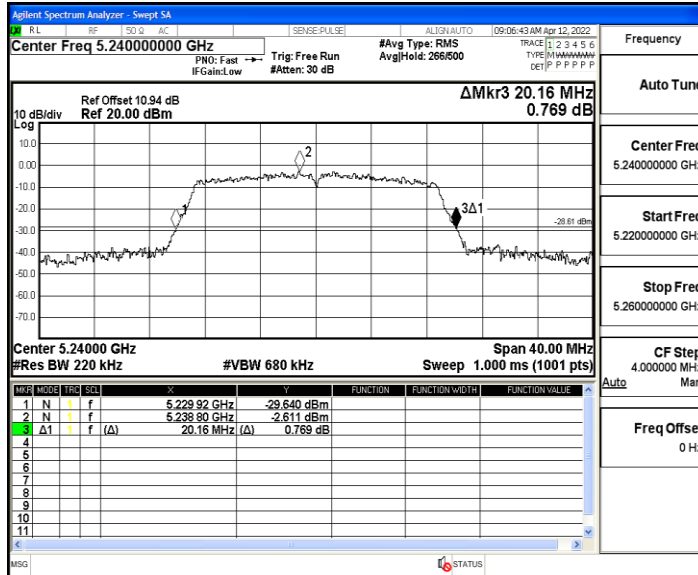
11AC20MIMO_Ant1_5200



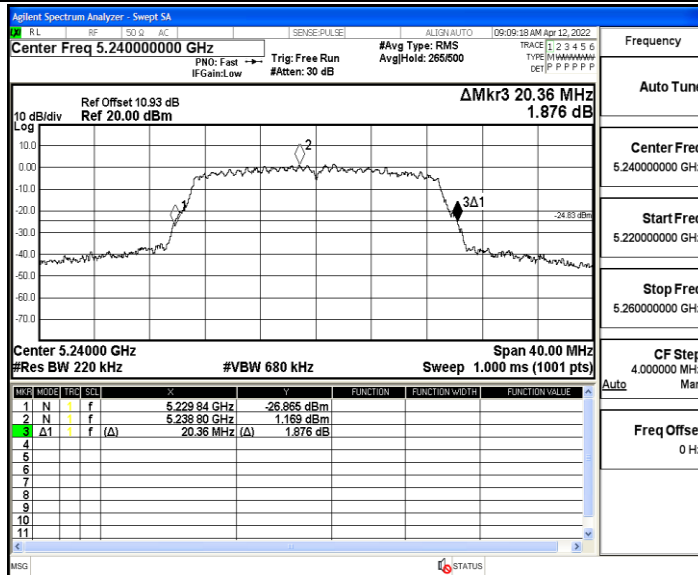
11AC20MIMO_Ant2_5200



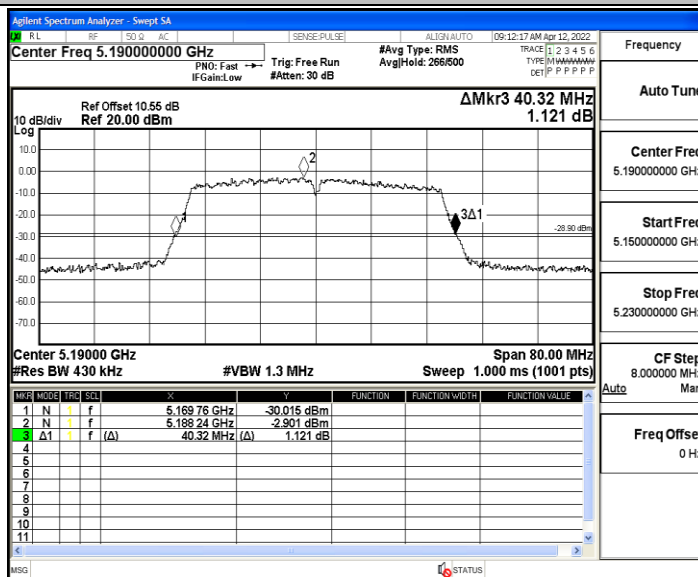
11AC20MIMO_Ant1_5240



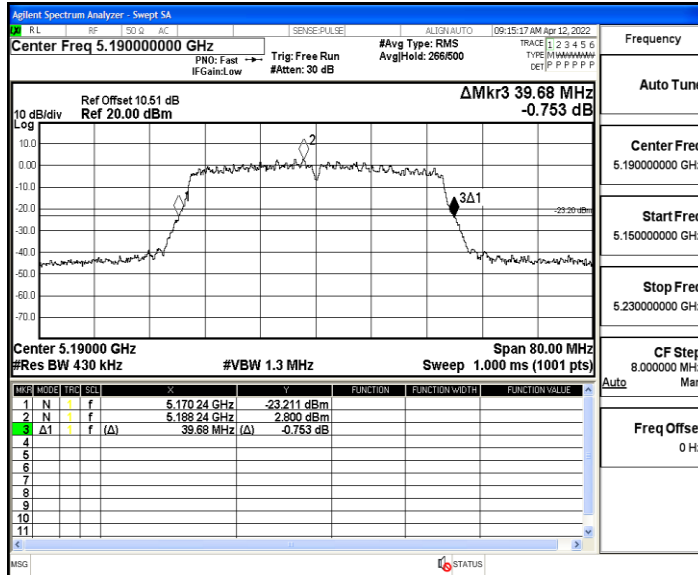
11AC20MIMO_Ant2_5240



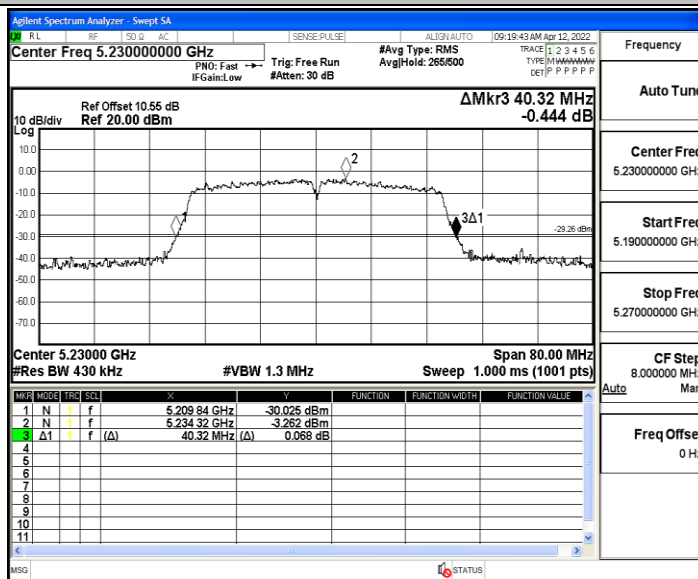
11AC40MIMO_Ant1_5190



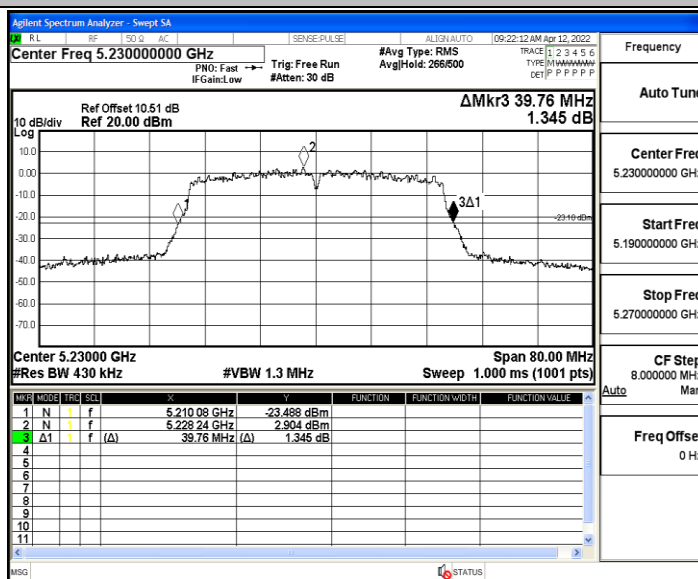
11AC40MIMO_Ant2_5190



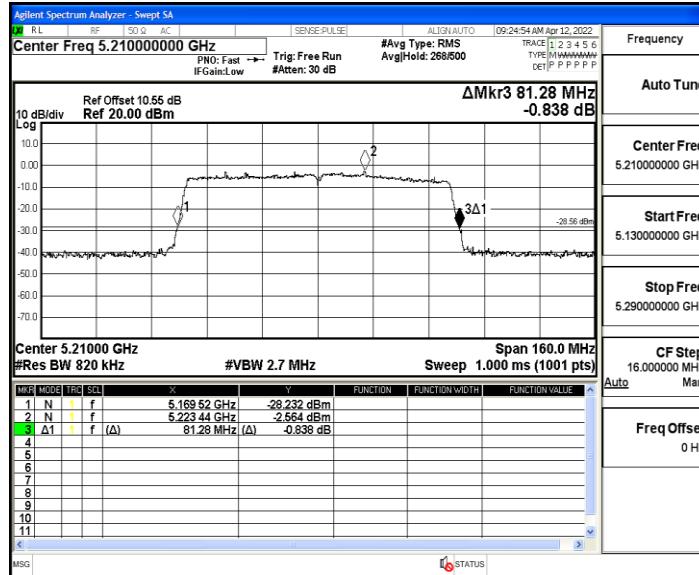
11AC40MIMO_Ant1_5230



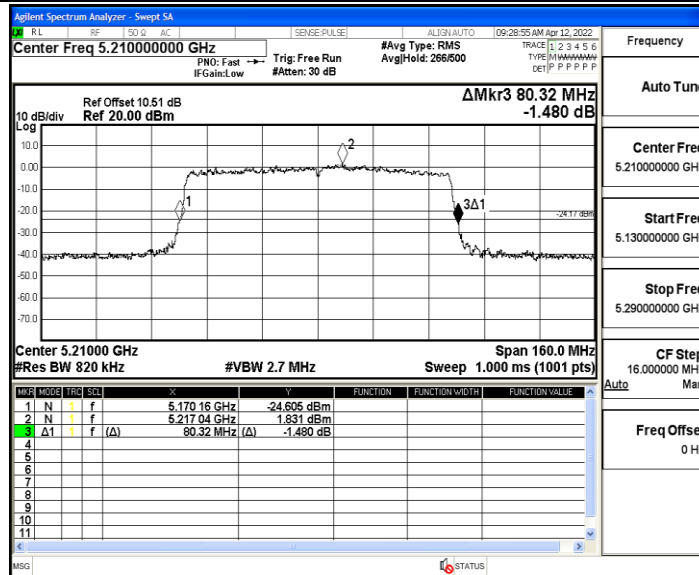
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



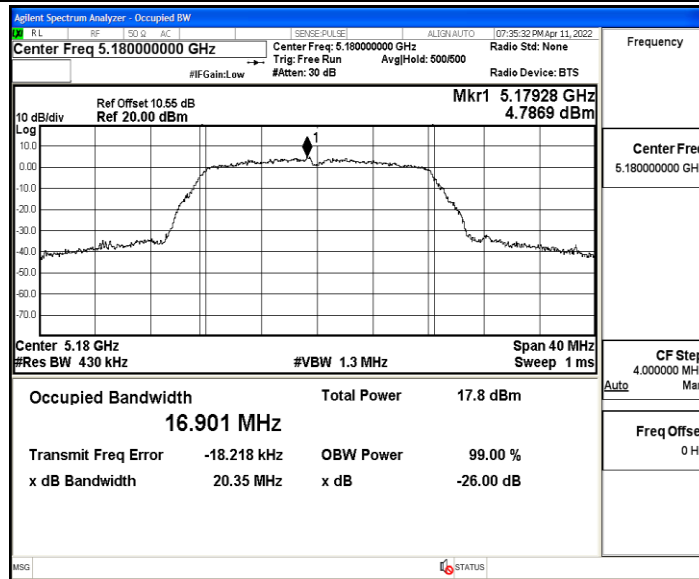
Appendix A2: Occupied channel bandwidth

Test Result

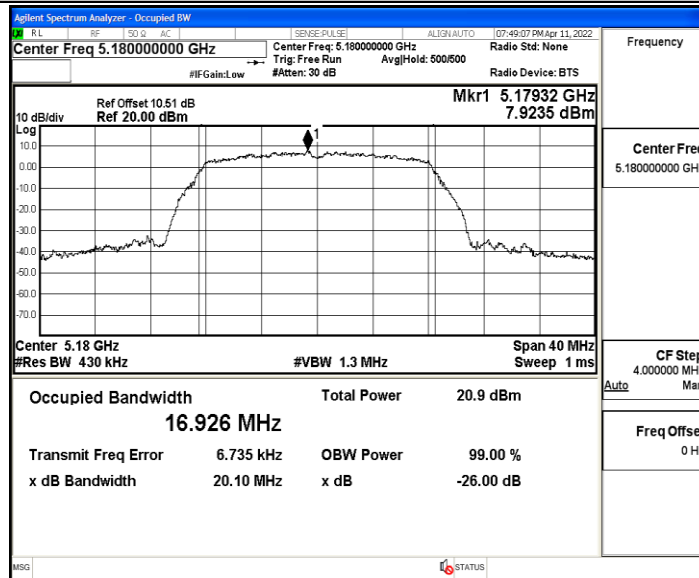
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.901	5171.531	5188.432	---	---
	Ant2	5180	16.926	5171.544	5188.470	---	---
	Ant1	5200	17.188	5191.390	5208.578	---	---
	Ant2	5200	16.716	5191.630	5208.346	---	---
	Ant1	5240	17.135	5231.405	5248.540	---	---
	Ant2	5240	16.703	5231.637	5248.340	---	---
11N20MIMO	Ant1	5180	17.777	5171.138	5188.915	---	---
	Ant2	5180	17.597	5171.236	5188.833	---	---
	Ant1	5200	17.908	5191.062	5208.970	---	---
	Ant2	5200	17.658	5191.201	5208.859	---	---
	Ant1	5240	17.886	5231.071	5248.957	---	---
	Ant2	5240	17.659	5231.183	5248.842	---	---
11N40MIMO	Ant1	5190	36.183	5171.876	5208.059	---	---
	Ant2	5190	36.231	5171.949	5208.180	---	---
	Ant1	5230	36.061	5212.020	5248.081	---	---
	Ant2	5230	36.221	5211.999	5248.220	---	---
11AC20MIMO	Ant1	5180	17.777	5171.132	5188.909	---	---
	Ant2	5180	17.581	5171.246	5188.827	---	---
	Ant1	5200	17.947	5191.039	5208.986	---	---
	Ant2	5200	17.670	5191.195	5208.865	---	---
	Ant1	5240	17.876	5231.067	5248.943	---	---
	Ant2	5240	17.663	5231.185	5248.848	---	---
11AC40MIMO	Ant1	5190	36.114	5171.905	5208.019	---	---
	Ant2	5190	36.282	5171.928	5208.210	---	---
	Ant1	5230	36.059	5212.018	5248.077	---	---
	Ant2	5230	36.221	5211.997	5248.218	---	---
11AC80MIMO	Ant1	5210	75.625	5172.202	5247.827	---	---
	Ant2	5210	75.222	5172.541	5247.763	---	---

Test Graphs

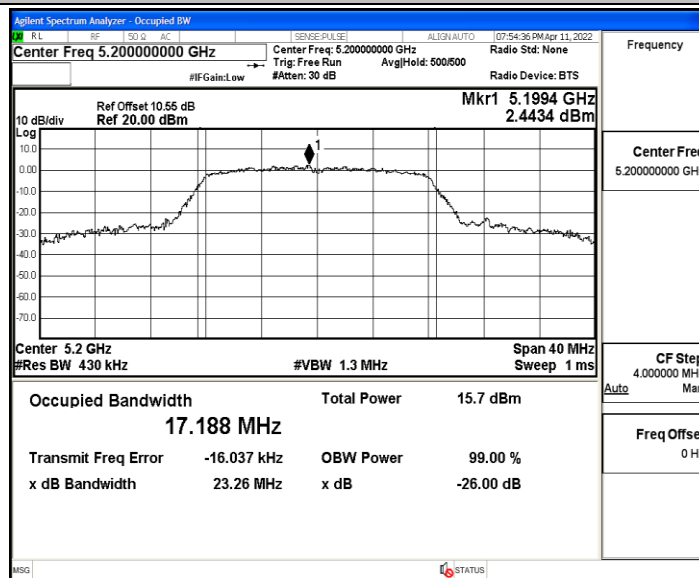
11A_Ant1_5180



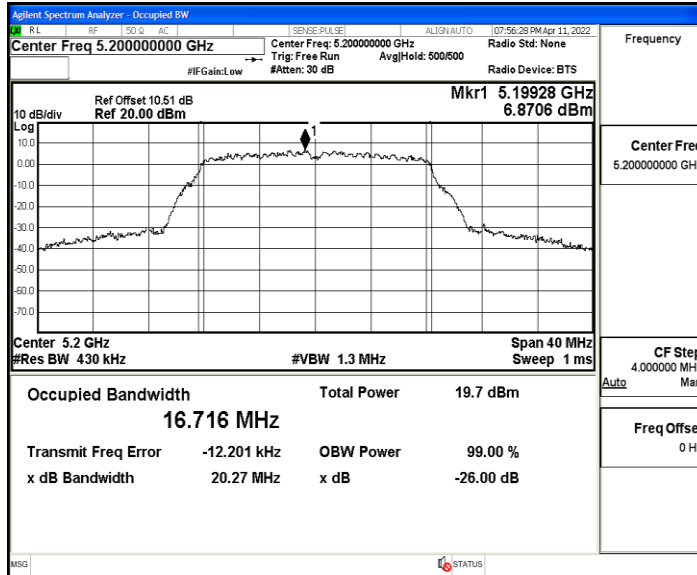
11A_Ant2_5180



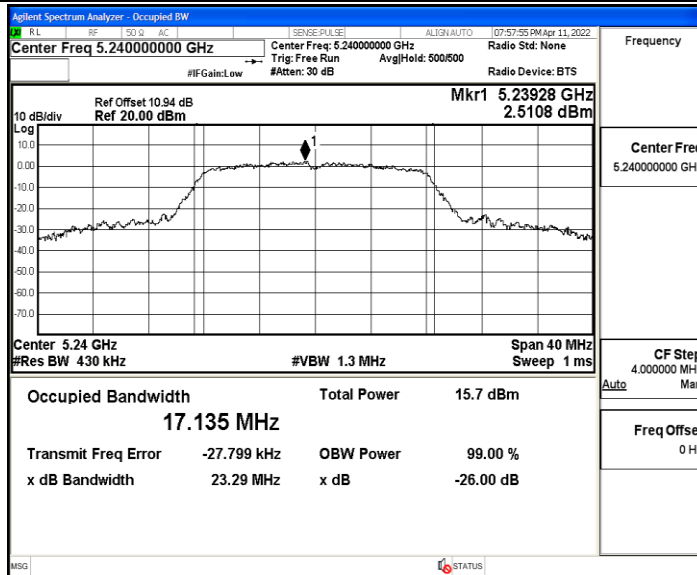
11A_Ant1_5200



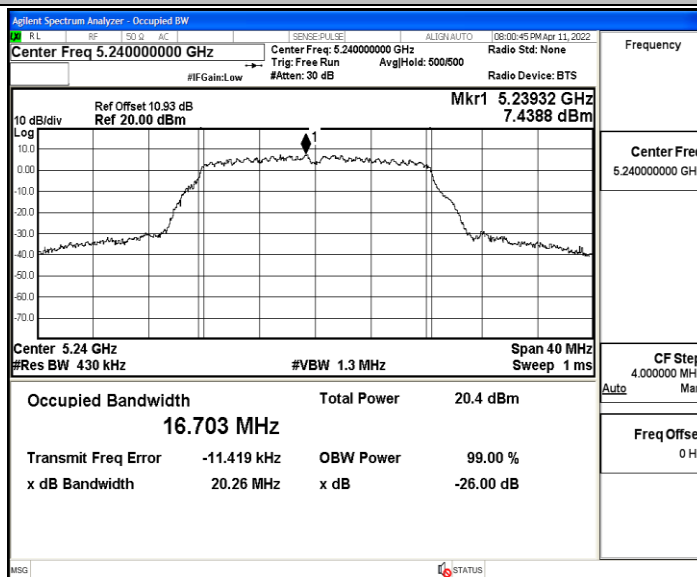
11A_Ant2_5200



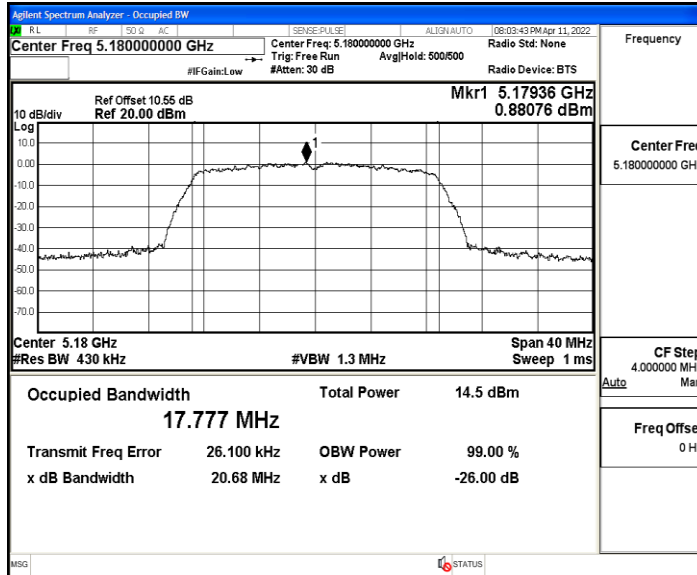
11A_Ant1_5240



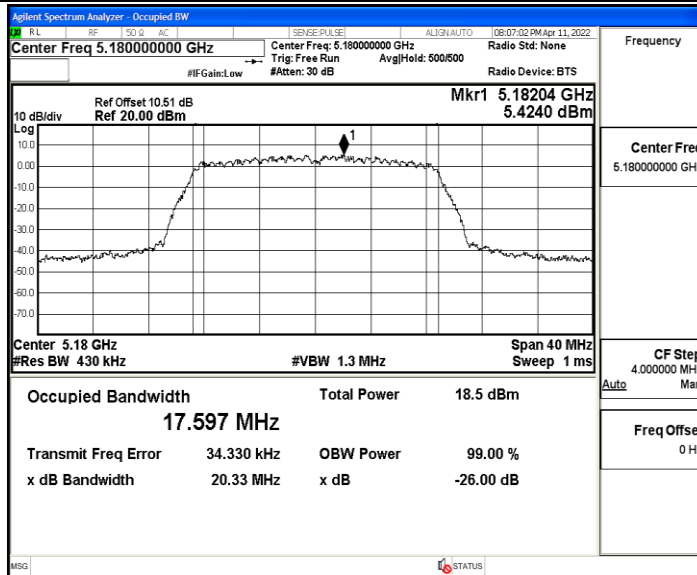
11A_Ant2_5240



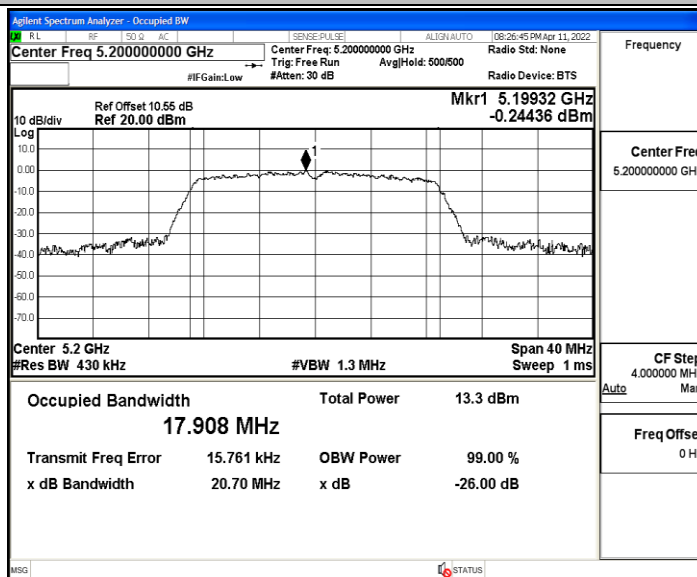
11N20MIMO_Ant1_5180



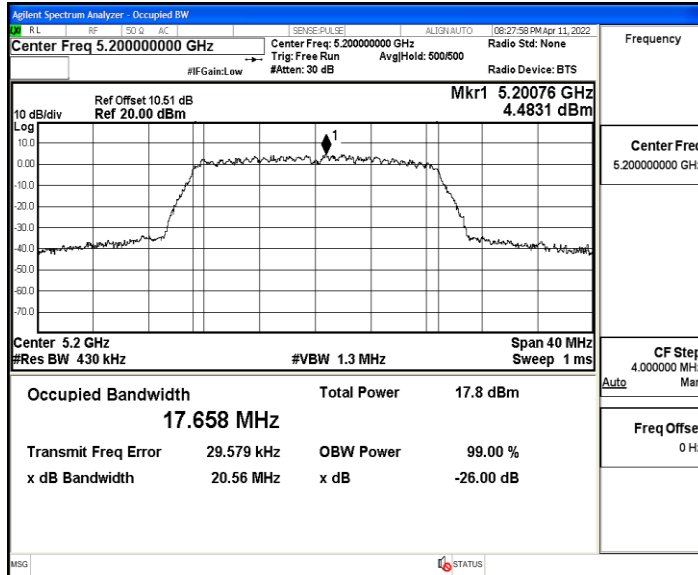
11N20MIMO_Ant2_5180



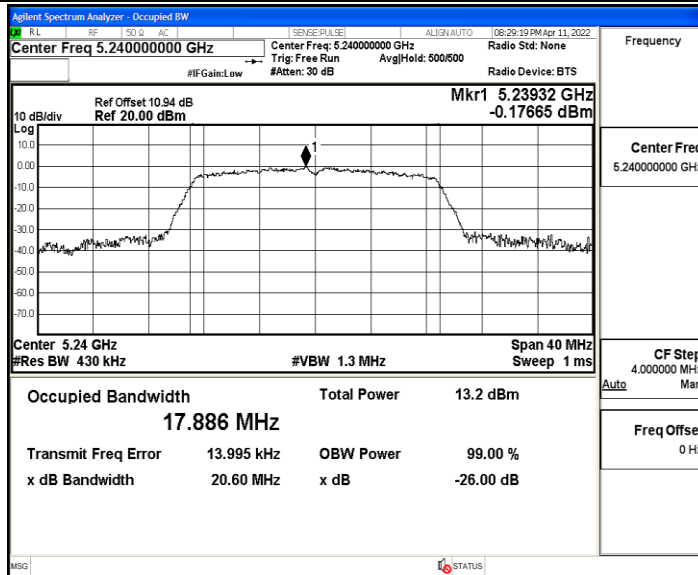
11N20MIMO_Ant1_5200



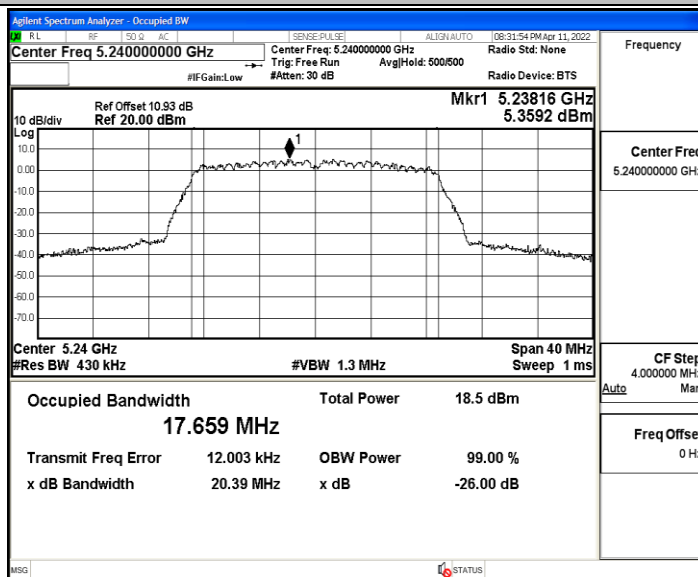
11N20MIMO_Ant2_5200



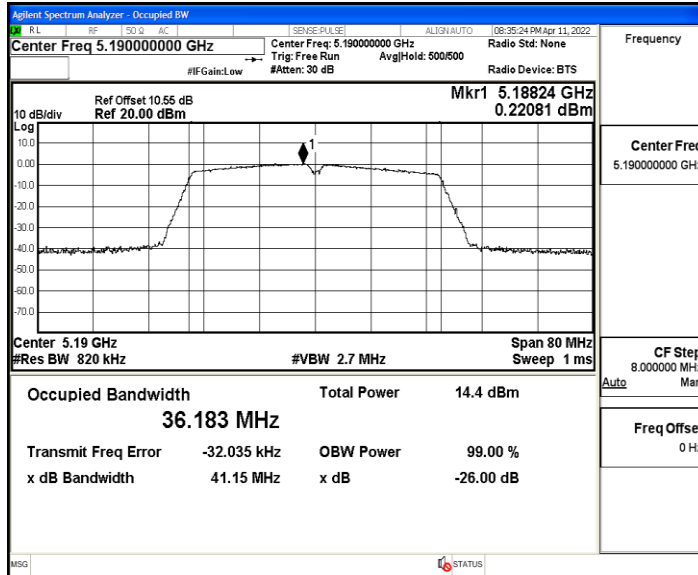
11N20MIMO_Ant1_5240



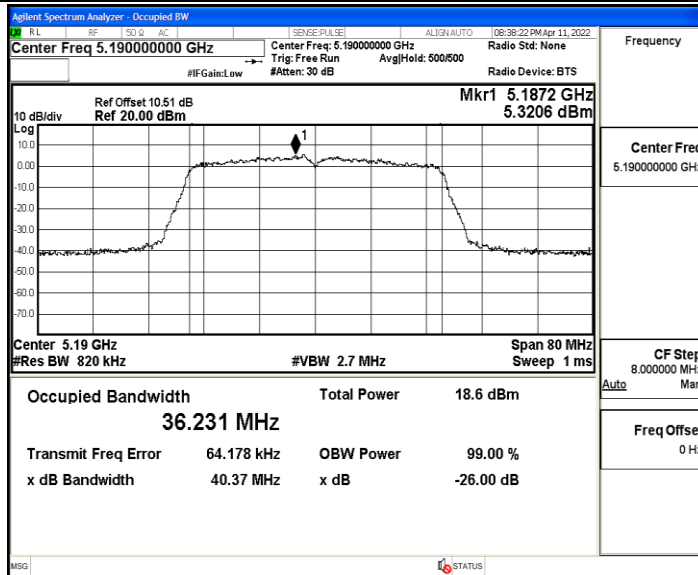
11N20MIMO_Ant2_5240



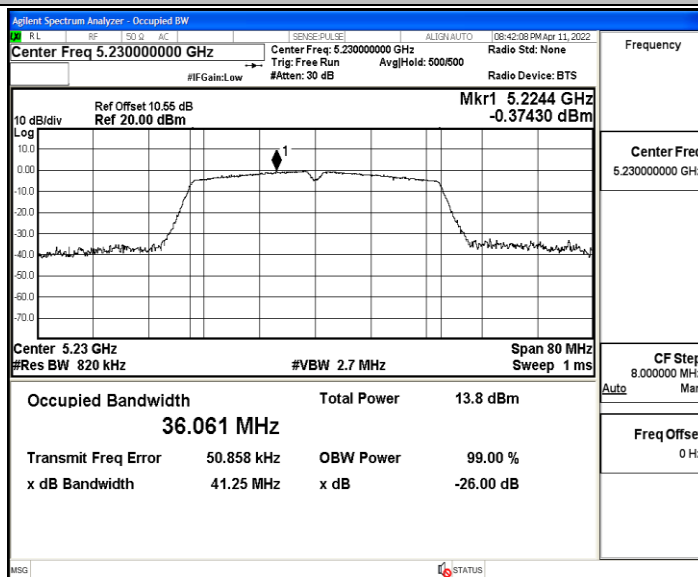
11N40MIMO_Ant1_5190



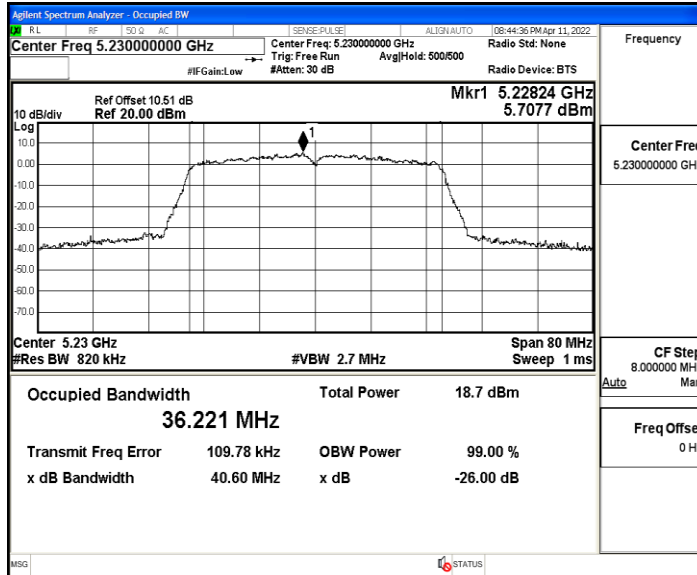
11N40MIMO_Ant2_5190



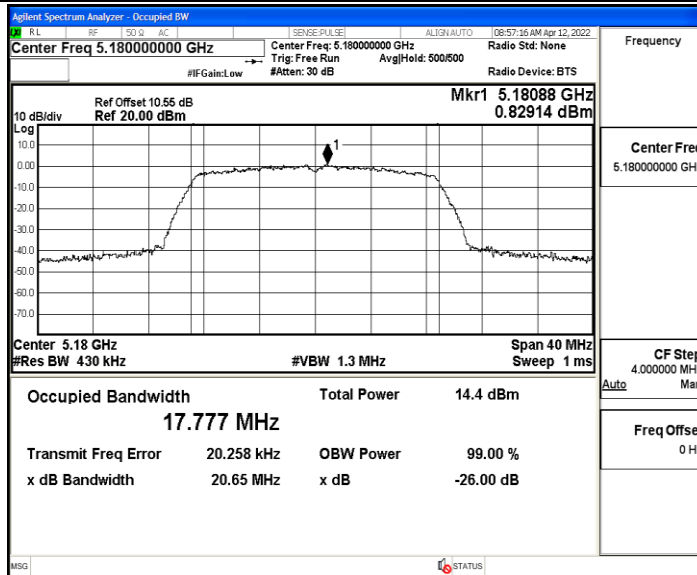
11N40MIMO_Ant1_5230



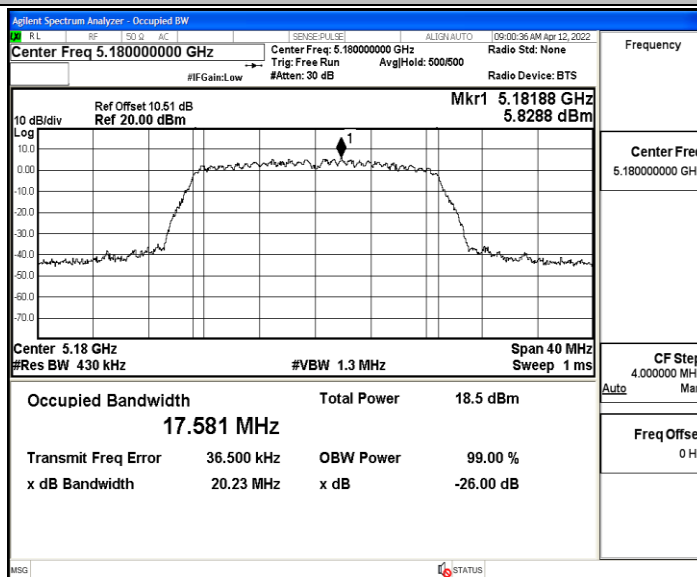
11N40MIMO_Ant2_5230



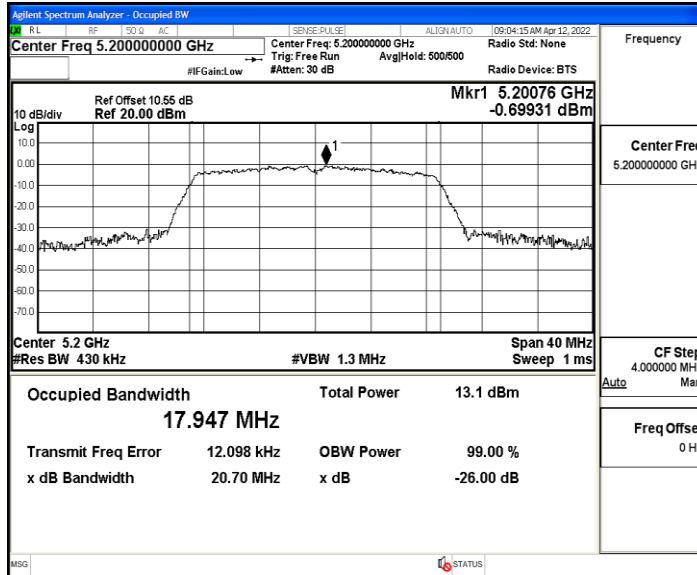
11AC20MIMO_Ant1_5180



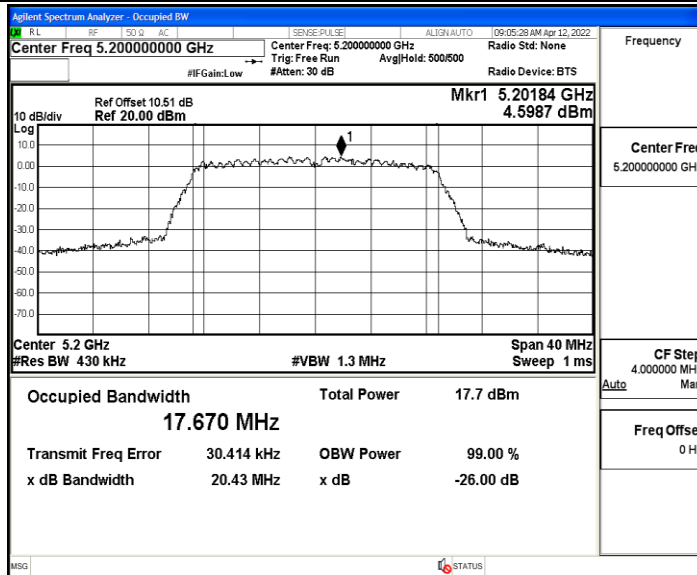
11AC20MIMO_Ant2_5180



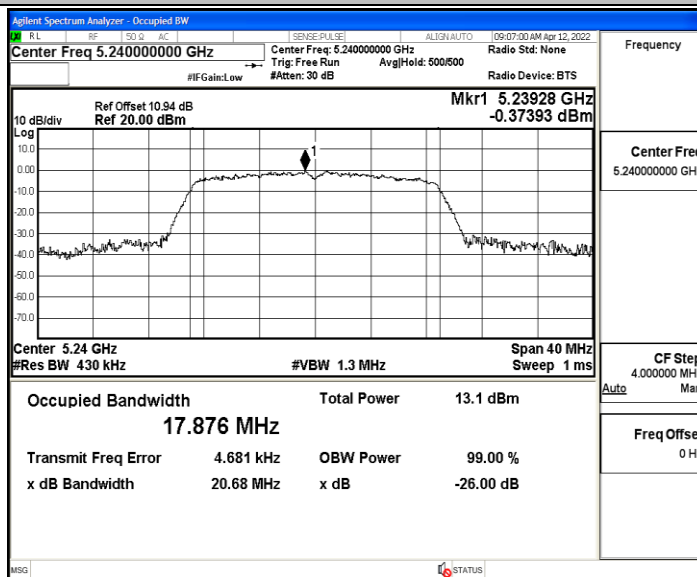
11AC20MIMO_Ant1_5200



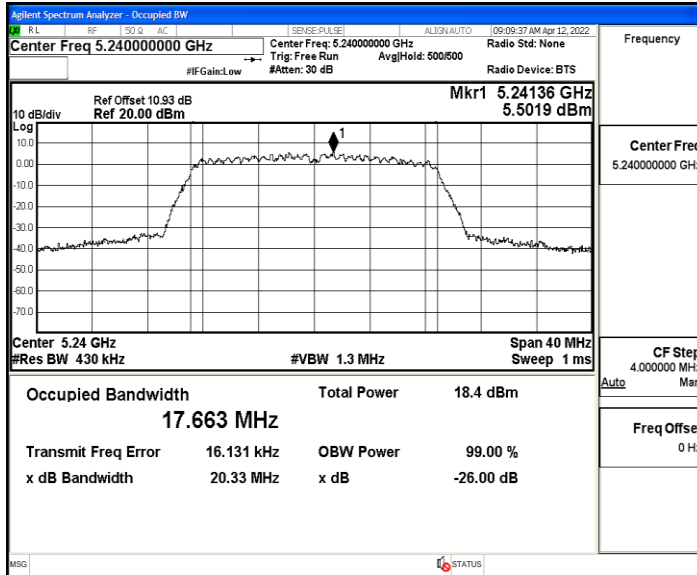
11AC20MIMO_Ant2_5200



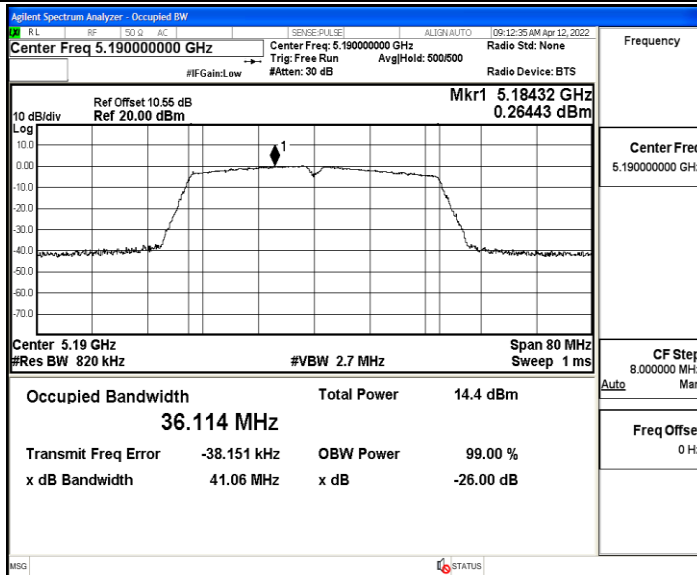
11AC20MIMO_Ant1_5240



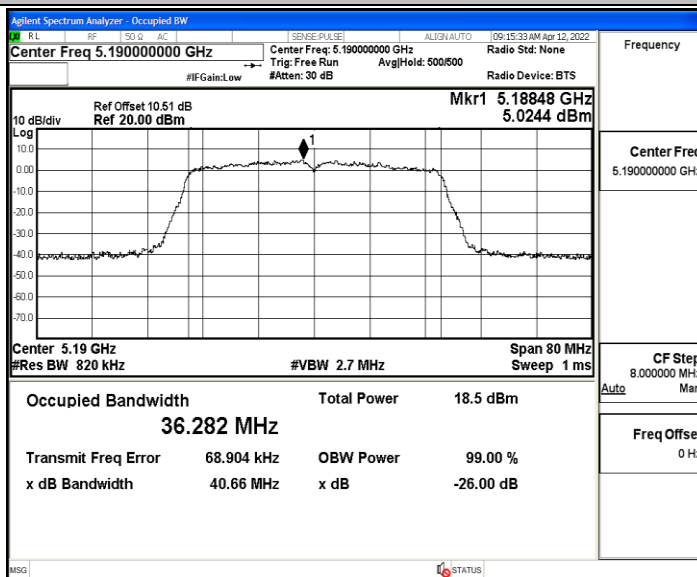
11AC20MIMO_Ant2_5240



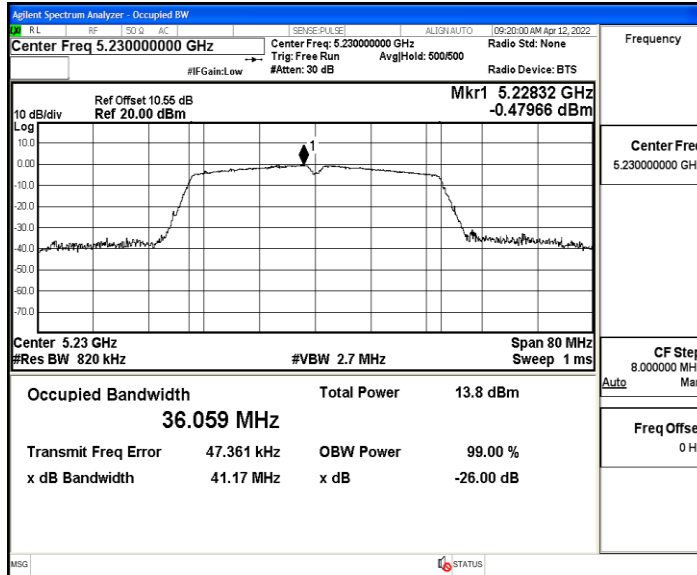
11AC40MIMO_Ant1_5190



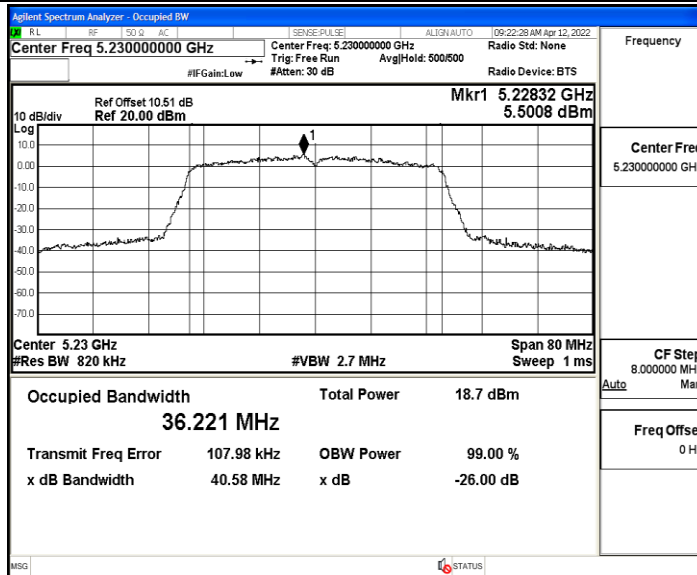
11AC40MIMO_Ant2_5190



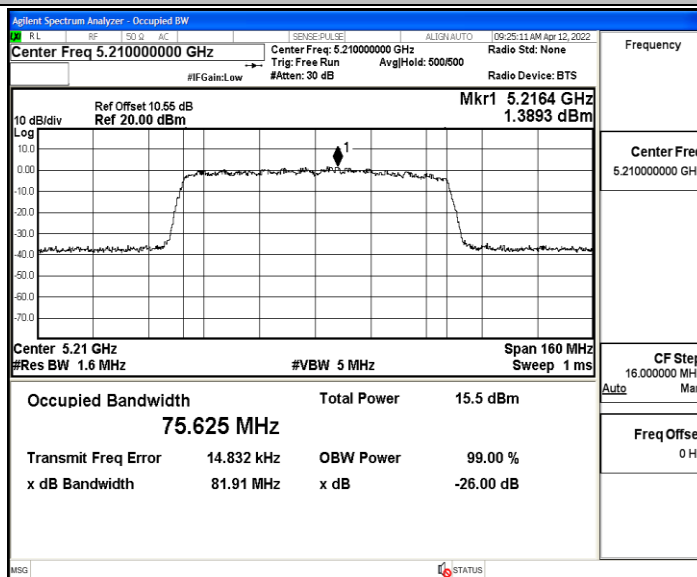
11AC40MIMO_Ant1_5230



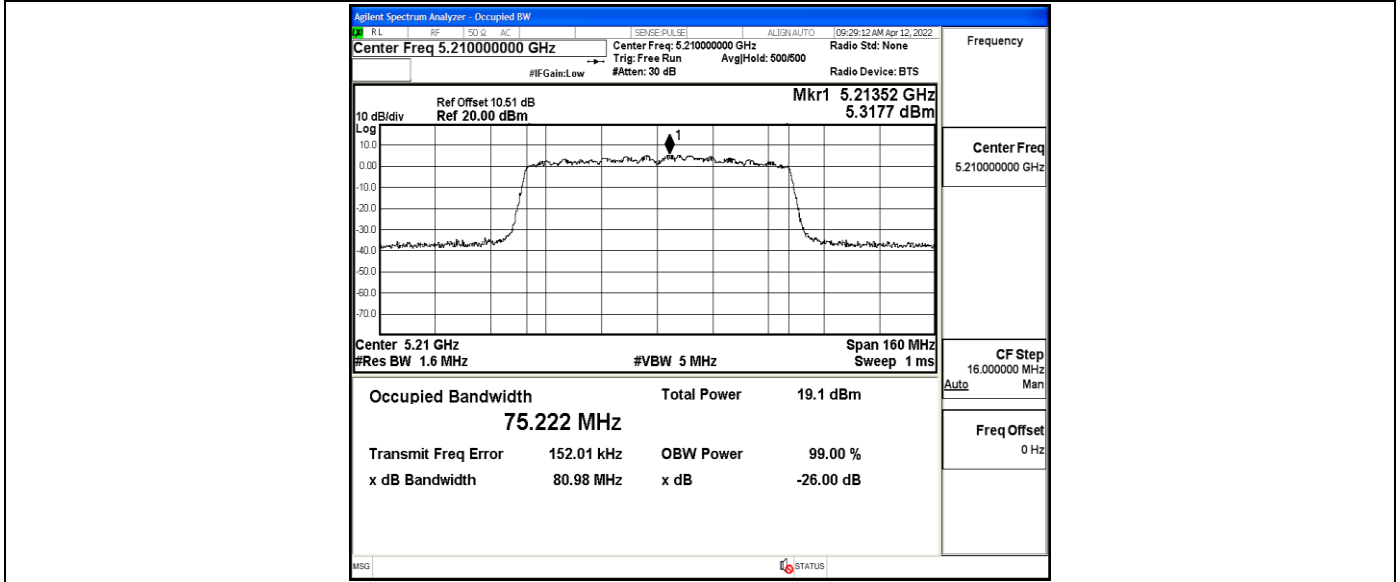
11AC40MIMO_Ant2_5230



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	11.10	≤23.98	PASS
	Ant2	5180	14.22	≤23.98	PASS
	Ant1	5200	8.96	≤23.98	PASS
	Ant2	5200	12.51	≤23.98	PASS
	Ant1	5240	8.98	≤23.98	PASS
	Ant2	5240	13.21	≤23.98	PASS
11N20MIMO	Ant1	5180	7.78	≤23.98	PASS
	Ant2	5180	10.72	≤23.98	PASS
	total	5180	12.50	≤22.55	PASS
	Ant1	5200	6.52	≤23.98	PASS
	Ant2	5200	10.09	≤23.98	PASS
	total	5200	11.67	≤22.55	PASS
	Ant1	5240	6.50	≤23.98	PASS
	Ant2	5240	10.71	≤23.98	PASS
total	5240	12.11	≤22.55	PASS	
11N40MIMO	Ant1	5190	7.17	≤23.98	PASS
	Ant2	5190	10.53	≤23.98	PASS
	total	5190	12.18	≤22.55	PASS
	Ant1	5230	6.58	≤23.98	PASS
	Ant2	5230	10.63	≤23.98	PASS
	total	5230	12.07	≤22.55	PASS
11AC20MIMO	Ant1	5180	7.57	≤23.98	PASS
	Ant2	5180	10.60	≤23.98	PASS
	total	5180	12.35	≤22.55	PASS
	Ant1	5200	6.45	≤23.98	PASS
	Ant2	5200	9.99	≤23.98	PASS
	total	5200	11.58	≤22.55	PASS
	Ant1	5240	6.39	≤23.98	PASS
	Ant2	5240	10.64	≤23.98	PASS
	total	5240	12.03	≤22.55	PASS
11AC40MIMO	Ant1	5190	7.20	≤23.98	PASS
	Ant2	5190	10.57	≤23.98	PASS
	total	5190	12.21	≤22.55	PASS
	Ant1	5230	6.52	≤23.98	PASS
	Ant2	5230	10.72	≤23.98	PASS
	total	5230	12.12	≤22.55	PASS
11AC80MIMO	Ant1	5210	6.69	≤23.98	PASS
	Ant2	5210	10.21	≤23.98	PASS
	total	5210	11.81	≤22.55	PASS

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

Appendix C: Maximum power spectral density

Test Result

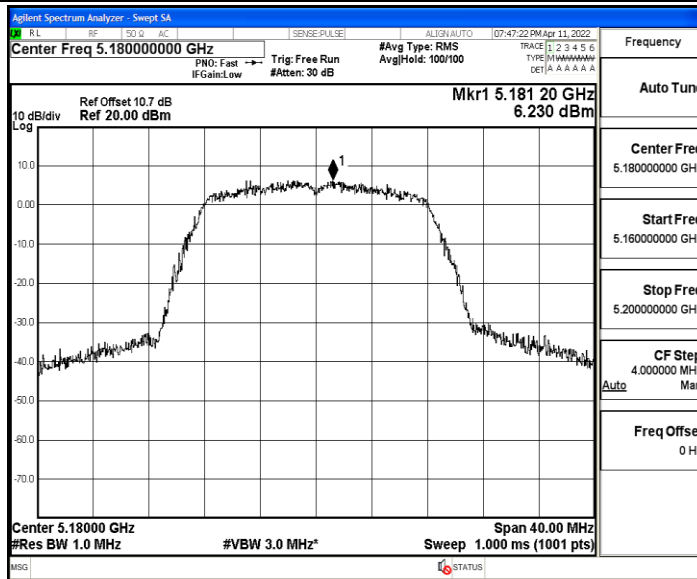
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.23	≤11	PASS
	Ant2	5180	9.43	≤11	PASS
	Ant1	5200	4.79	≤11	PASS
	Ant2	5200	7.9	≤11	PASS
	Ant1	5240	5	≤11	PASS
	Ant2	5240	9.31	≤11	PASS
11N20MIMO	Ant1	5180	3.2	≤11	PASS
	Ant2	5180	6.81	≤11	PASS
	total	5180	8.38	≤9.57	PASS
	Ant1	5200	1.34	≤11	PASS
	Ant2	5200	6.2	≤11	PASS
	total	5200	7.43	≤9.57	PASS
	Ant1	5240	2.03	≤11	PASS
	Ant2	5240	6.83	≤11	PASS
total	5240	8.07	≤9.57	PASS	
11N40MIMO	Ant1	5190	-0.45	≤11	PASS
	Ant2	5190	4.56	≤11	PASS
	total	5190	5.75	≤9.57	PASS
	Ant1	5230	-1.46	≤11	PASS
	Ant2	5230	4.51	≤11	PASS
	total	5230	5.49	≤9.57	PASS
11AC20MIMO	Ant1	5180	2.54	≤11	PASS
	Ant2	5180	6.91	≤11	PASS
	total	5180	8.26	≤9.57	PASS
	Ant1	5200	1.31	≤11	PASS
	Ant2	5200	6	≤11	PASS
	total	5200	7.27	≤9.57	PASS
	Ant1	5240	1.41	≤11	PASS
	Ant2	5240	6.81	≤11	PASS
	total	5240	7.91	≤9.57	PASS
11AC40MIMO	Ant1	5190	-0.51	≤11	PASS
	Ant2	5190	4.56	≤11	PASS
	total	5190	5.74	≤9.57	PASS
	Ant1	5230	-1.29	≤11	PASS
	Ant2	5230	5	≤11	PASS
	total	5230	5.92	≤9.57	PASS
11AC80MIMO	Ant1	5210	-3.34	≤11	PASS
	Ant2	5210	1.24	≤11	PASS
	total	5210	2.54	≤9.57	PASS

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

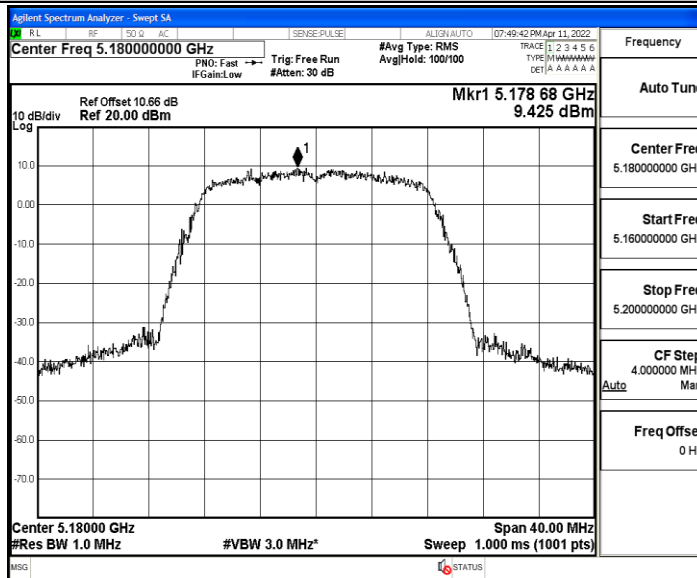
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

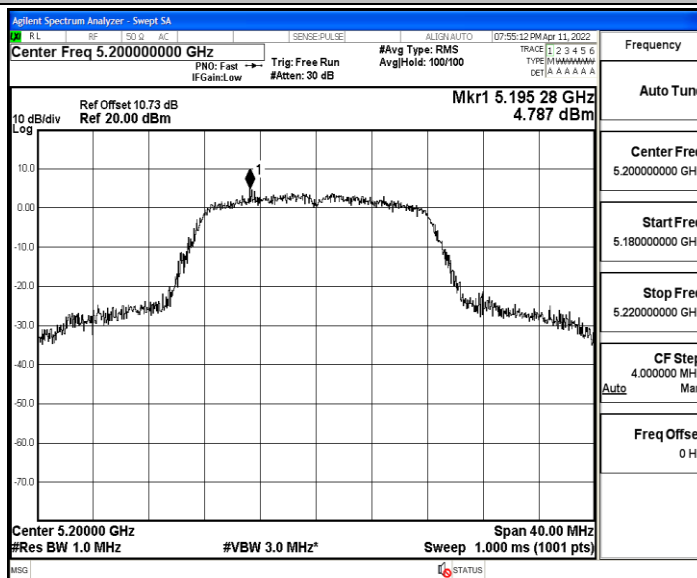
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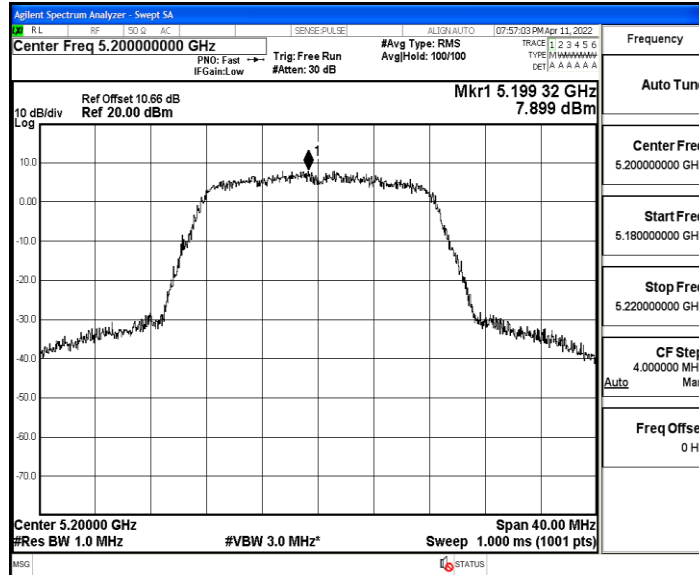
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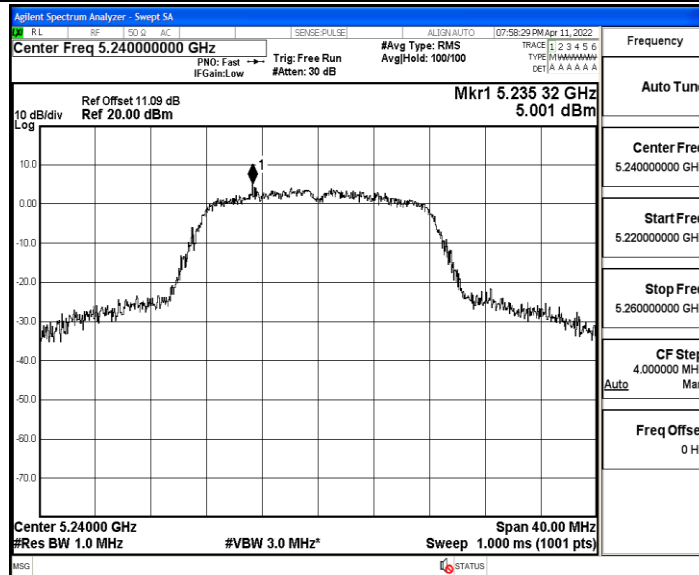
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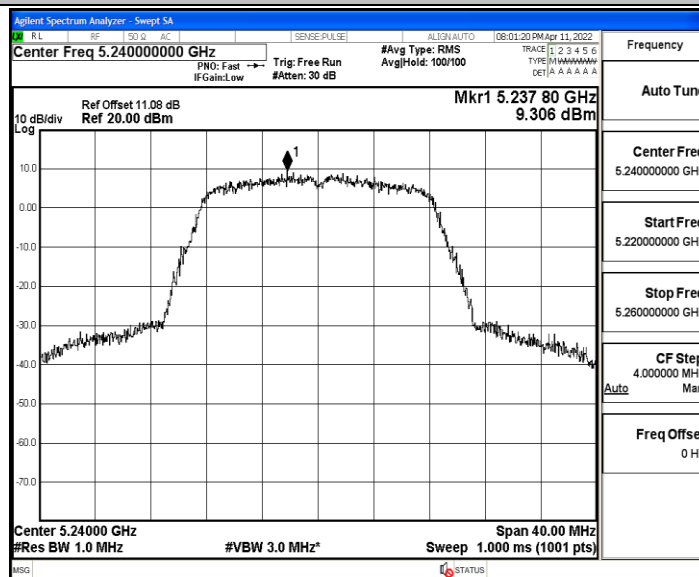
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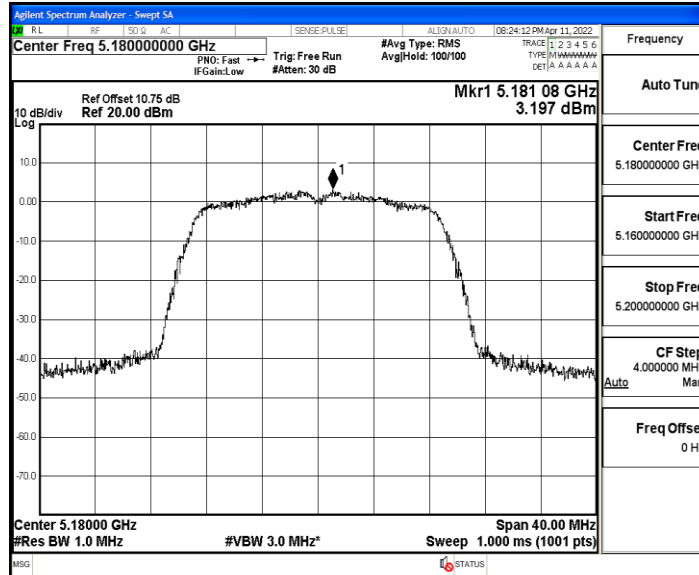
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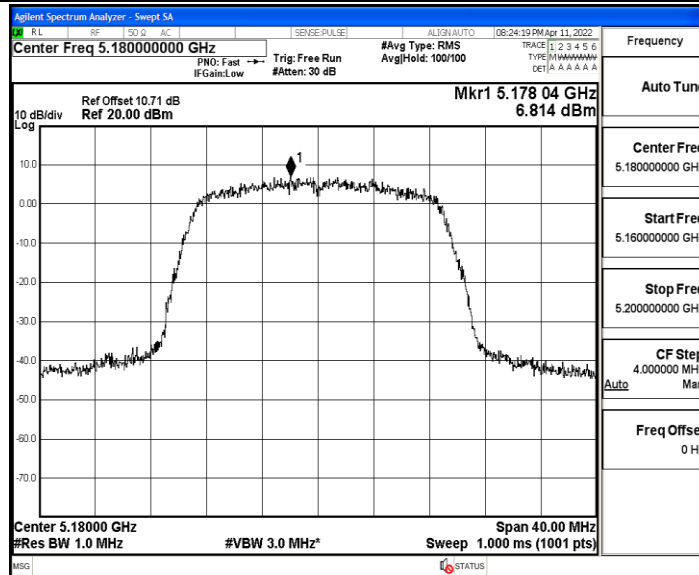
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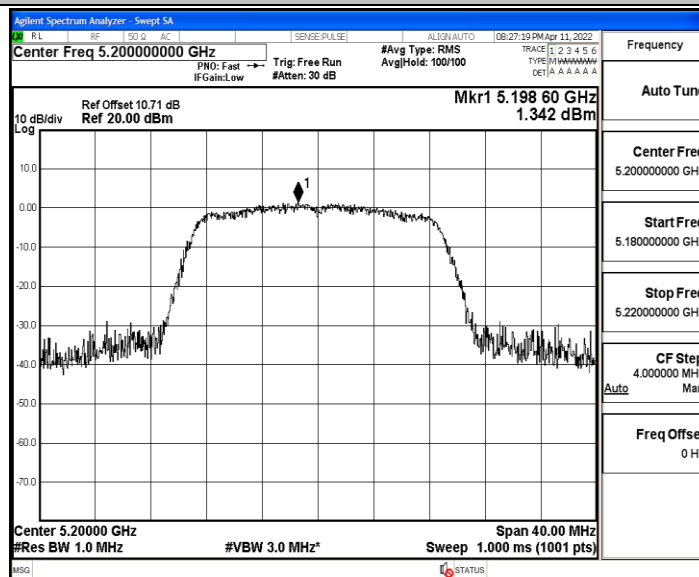
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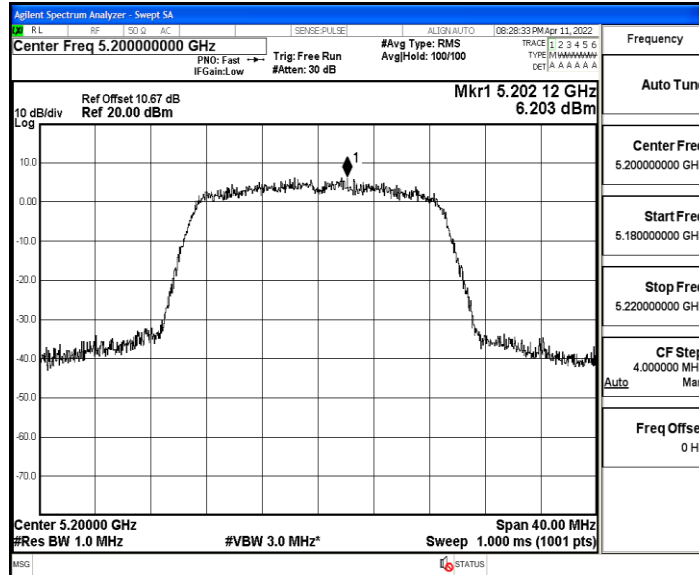
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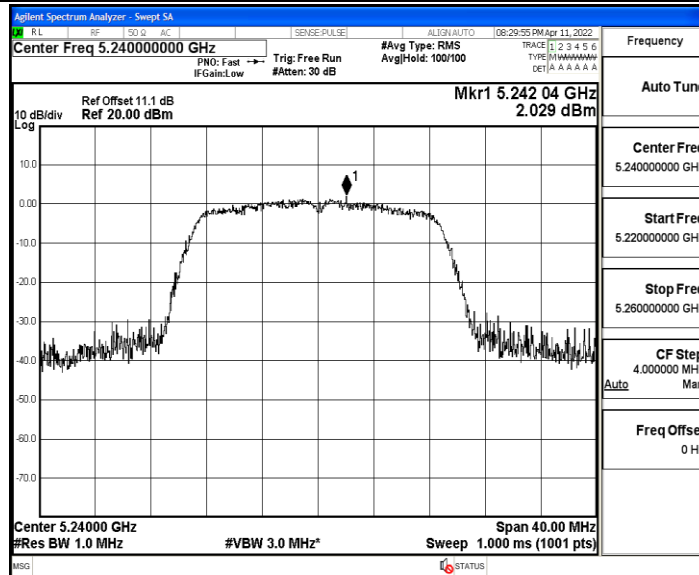
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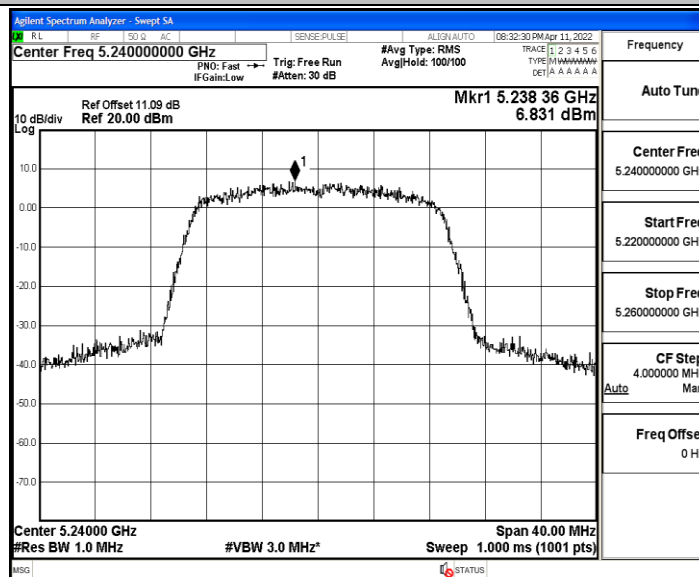
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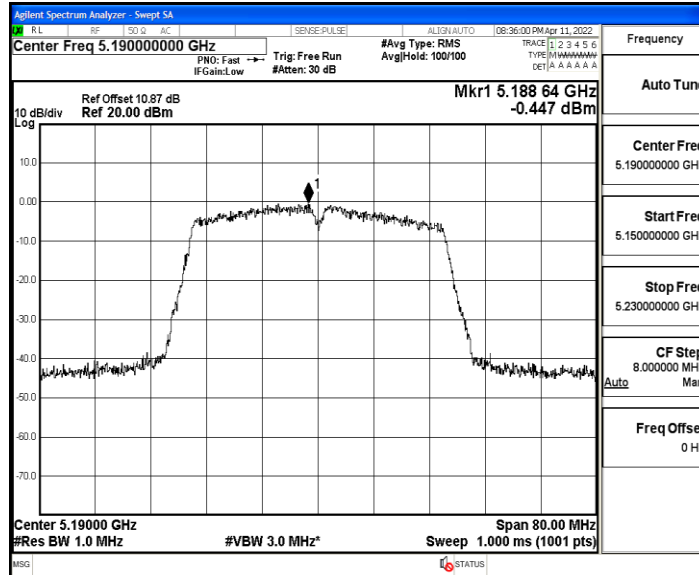
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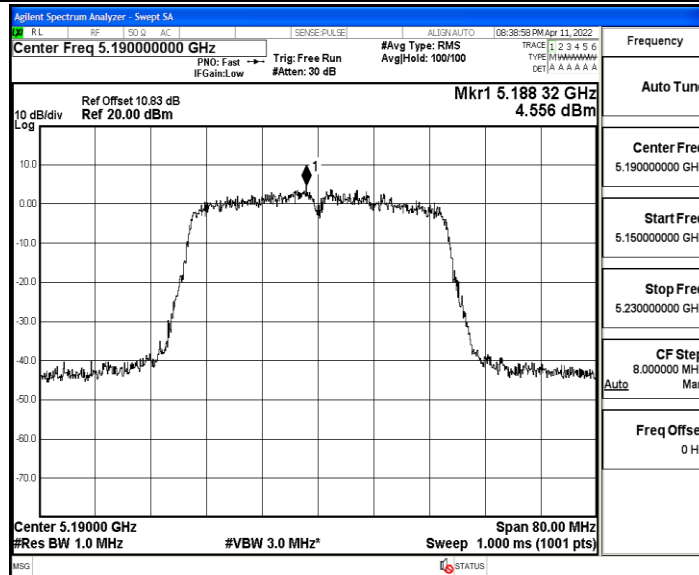
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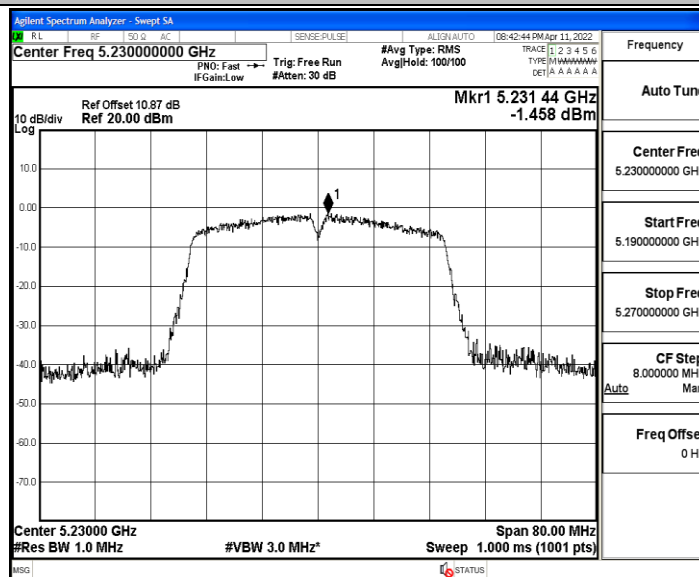
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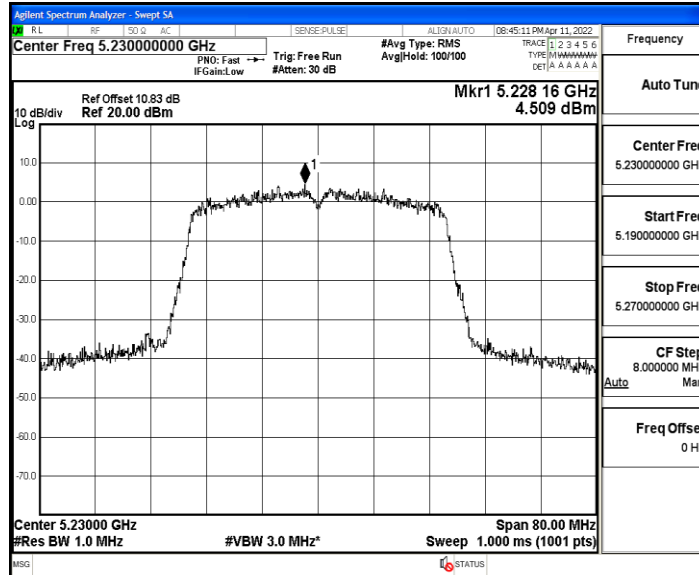
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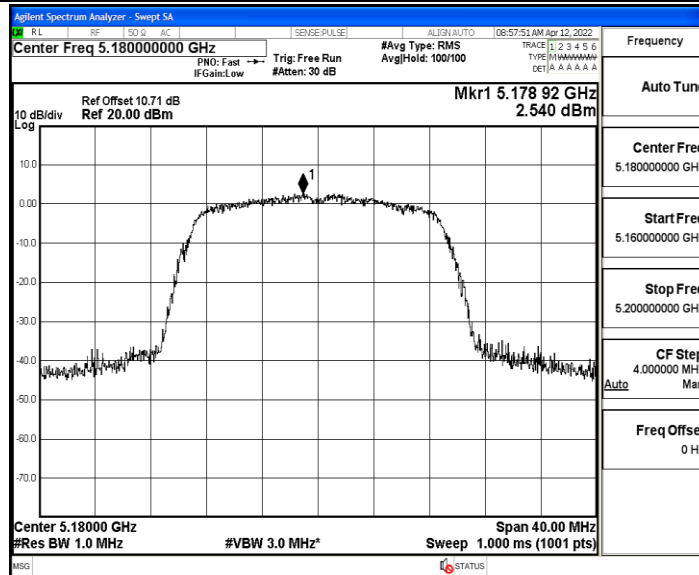
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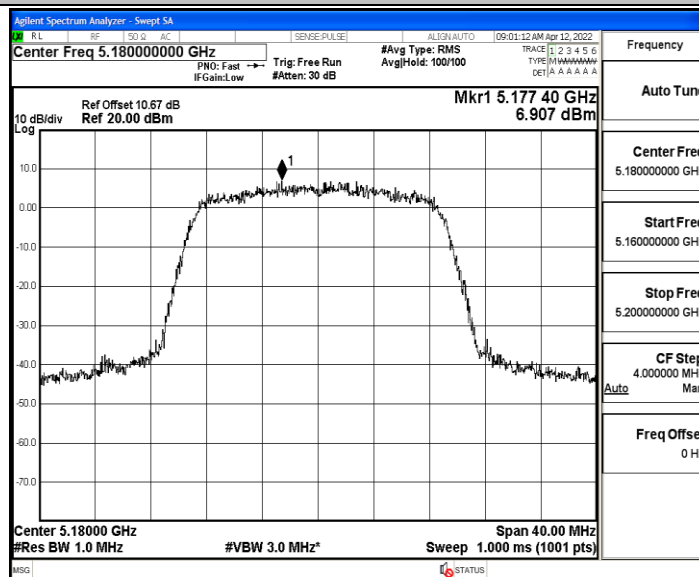
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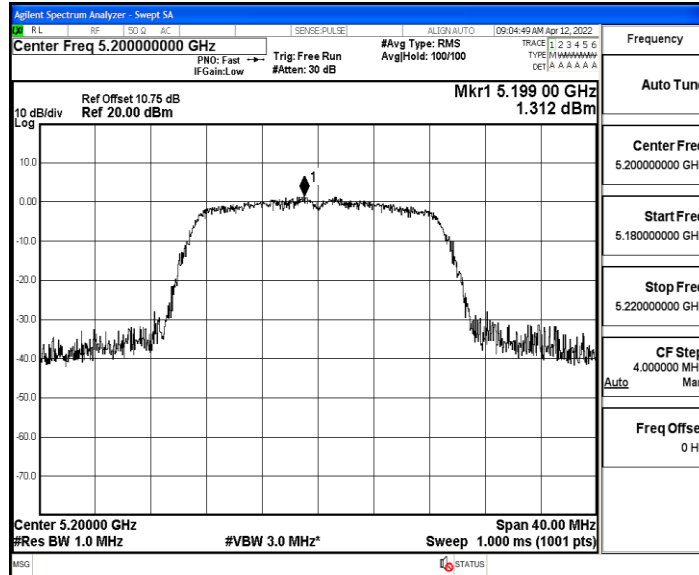
11AC20MIMO_Ant1_5180



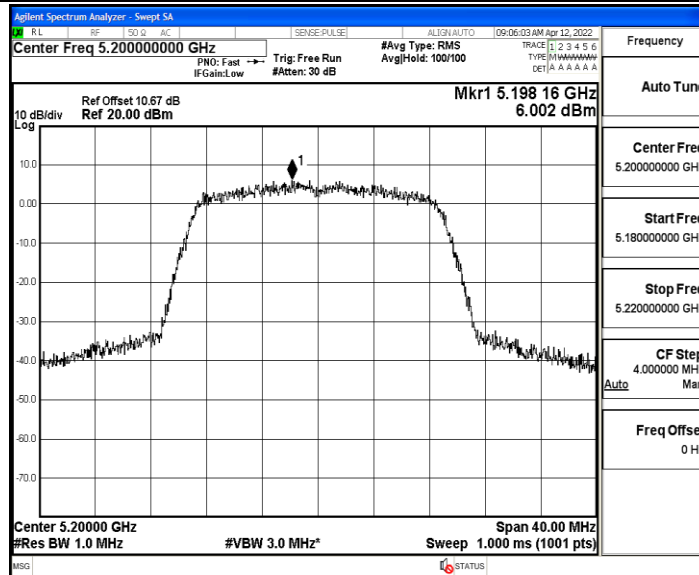
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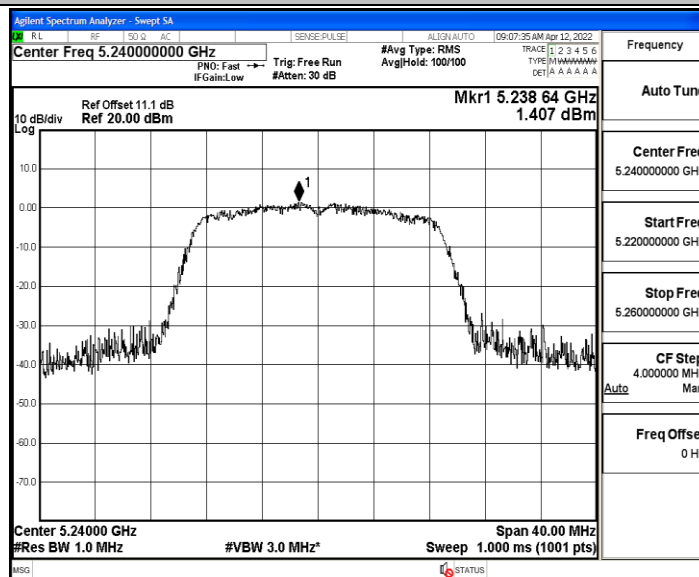
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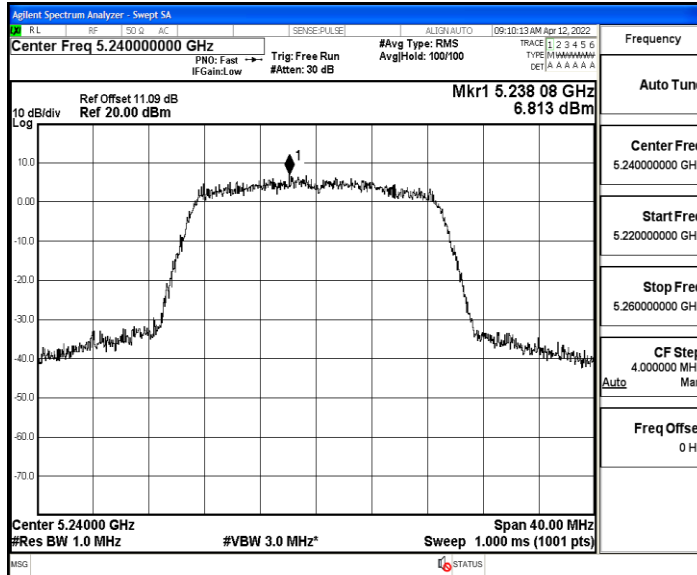
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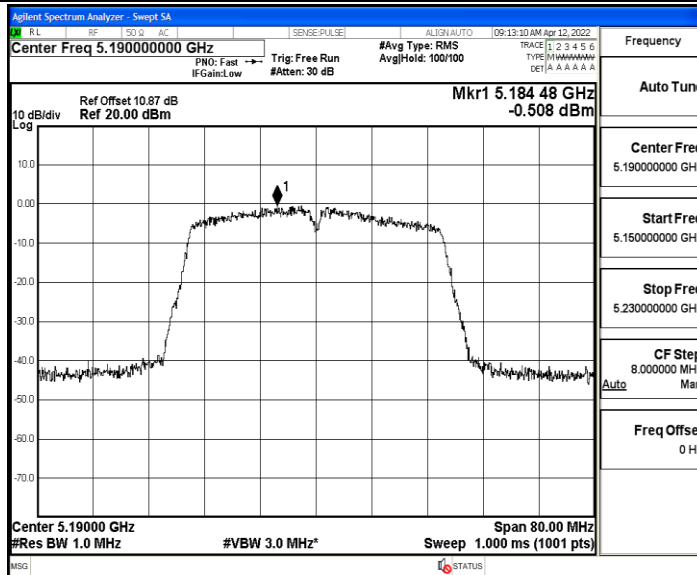
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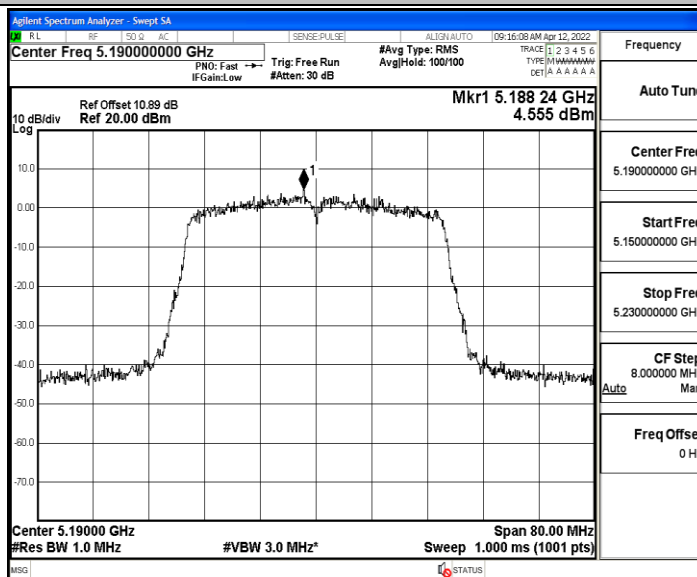
11AC20MIMO_Ant2_5240



11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



11AC40MIMO_Ant1_5230