

RF Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: 4K HDMI Dongle

Trade Mark: N/A

Test Model: SN8BKCB

FCC ID: 2AOVU-SN8BKCX

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

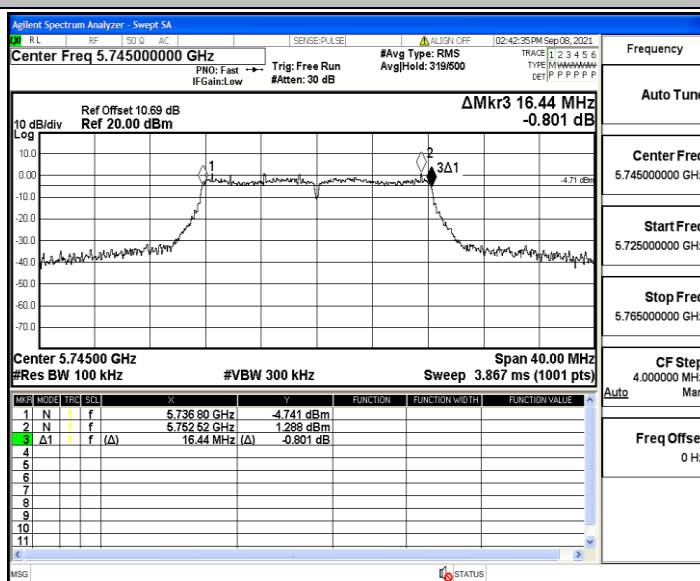
Appendix A: Min emission bandwidth

Test Result

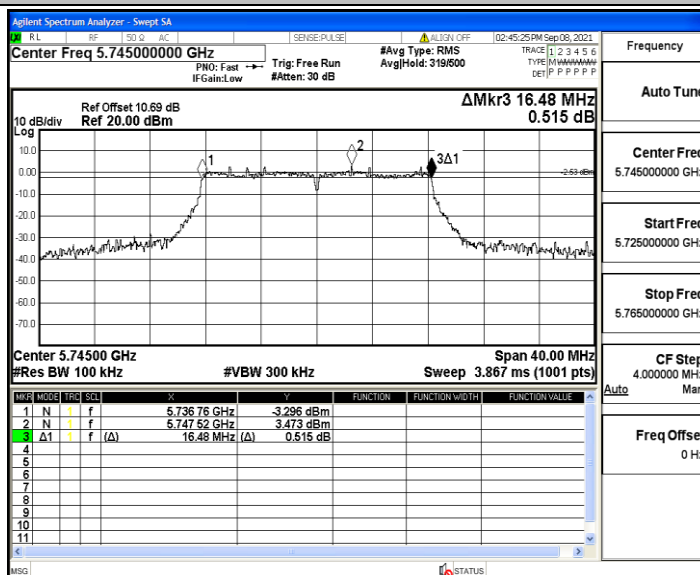
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.800	5753.240	0.5	PASS
	Ant2	5745	16.480	5736.760	5753.240	0.5	PASS
	Ant1	5785	16.440	5776.800	5793.240	0.5	PASS
	Ant2	5785	16.440	5776.800	5793.240	0.5	PASS
	Ant1	5825	16.520	5816.760	5833.280	0.5	PASS
	Ant2	5825	16.440	5816.800	5833.240	0.5	PASS
11N20MIMO	Ant1	5745	17.760	5736.120	5753.880	0.5	PASS
	Ant2	5745	17.680	5736.120	5753.800	0.5	PASS
	Ant1	5785	17.760	5776.120	5793.880	0.5	PASS
	Ant2	5785	17.680	5776.120	5793.800	0.5	PASS
	Ant1	5825	17.640	5816.160	5833.800	0.5	PASS
	Ant2	5825	17.720	5816.120	5833.840	0.5	PASS
11N40MIMO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
	Ant2	5755	36.480	5736.760	5773.240	0.5	PASS
	Ant1	5795	36.480	5776.760	5813.240	0.5	PASS
	Ant2	5795	36.400	5776.760	5813.160	0.5	PASS
11AC20MIMO	Ant1	5745	17.760	5736.080	5753.840	0.5	PASS
	Ant2	5745	17.680	5736.120	5753.800	0.5	PASS
	Ant1	5785	17.760	5776.120	5793.880	0.5	PASS
	Ant2	5785	17.760	5776.080	5793.840	0.5	PASS
	Ant1	5825	17.640	5816.160	5833.800	0.5	PASS
	Ant2	5825	17.720	5816.120	5833.840	0.5	PASS
11AC40MIMO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
	Ant2	5755	36.480	5736.760	5773.240	0.5	PASS
	Ant1	5795	36.480	5776.760	5813.240	0.5	PASS
	Ant2	5795	36.480	5776.760	5813.240	0.5	PASS
11AC80MIMO	Ant1	5775	76.640	5736.600	5813.240	0.5	PASS
	Ant2	5775	76.640	5736.600	5813.240	0.5	PASS

Test Graphs

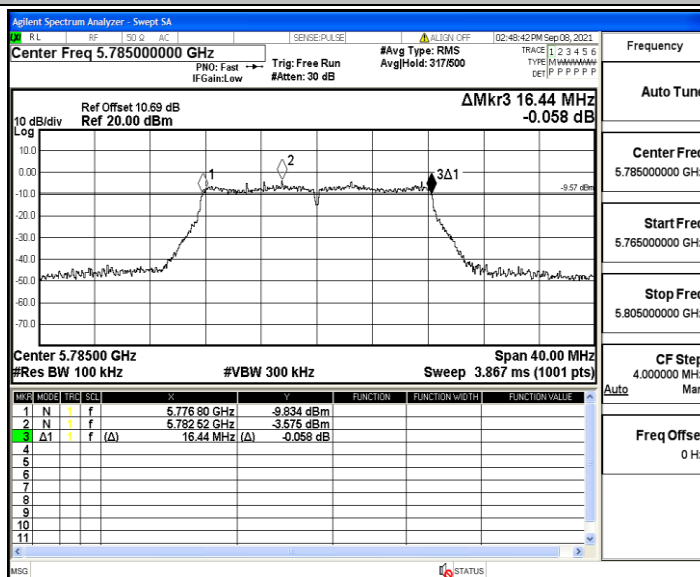
11A_Ant1_5745



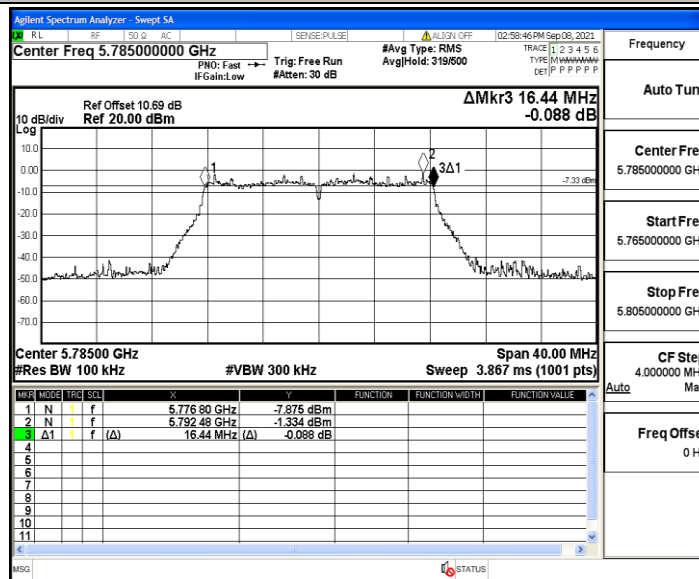
11A_Ant2_5745



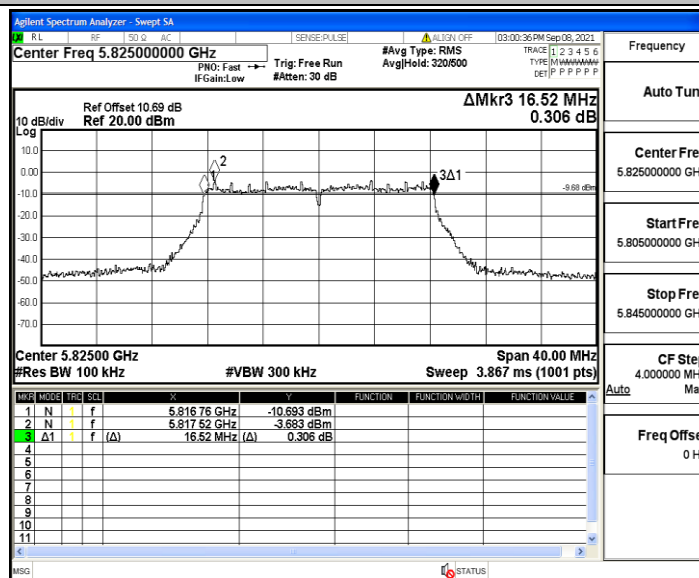
11A_Ant1_5785



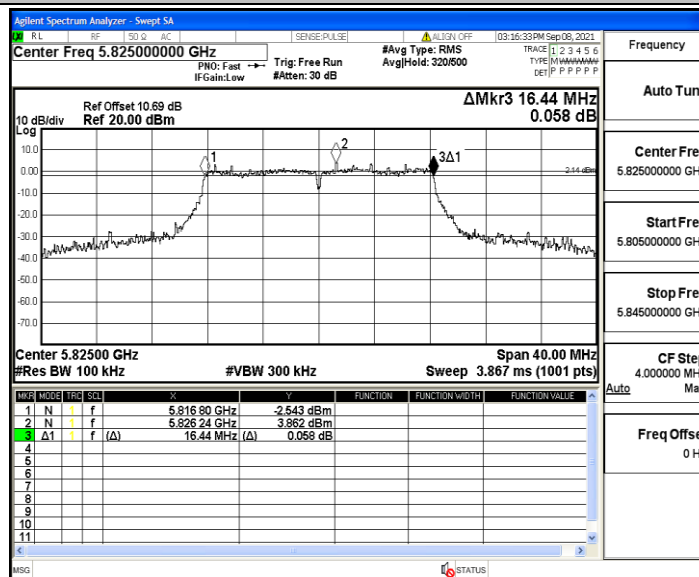
11A_Ant2_5785



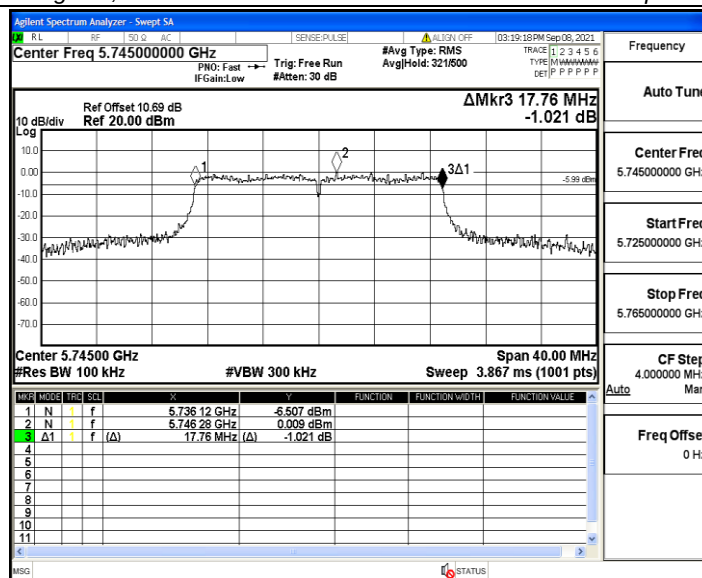
11A_Ant1_5825



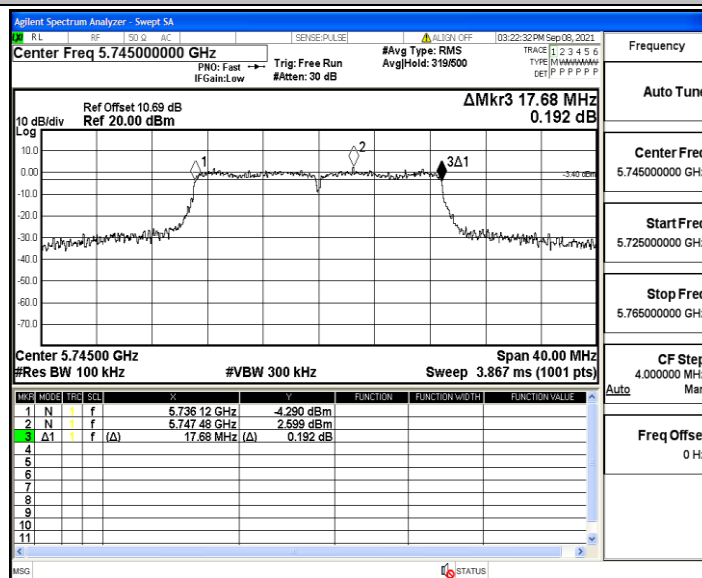
11A_Ant2_5825



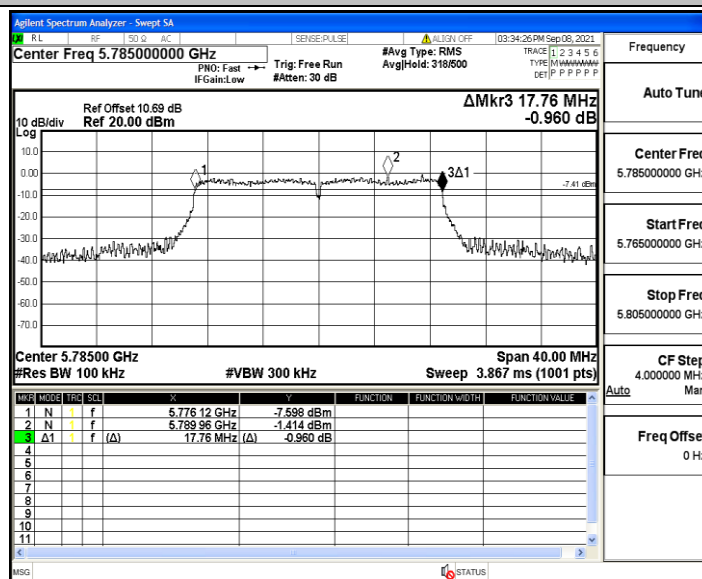
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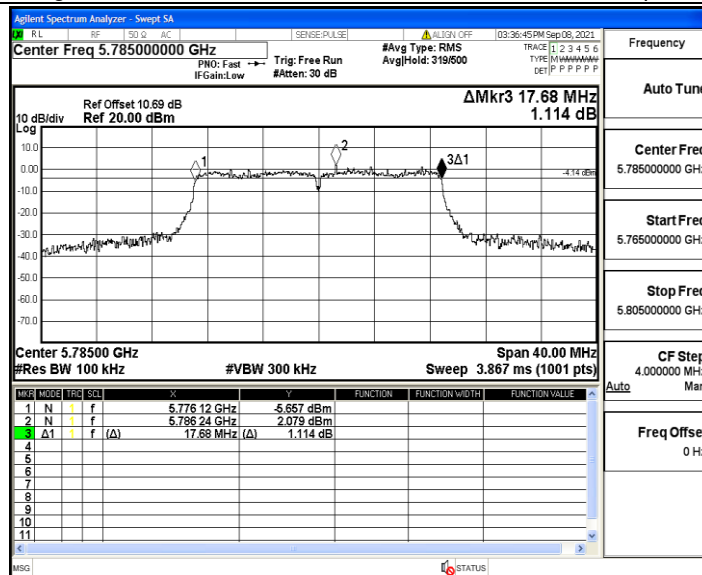
11N20MIMO_Ant2_5745



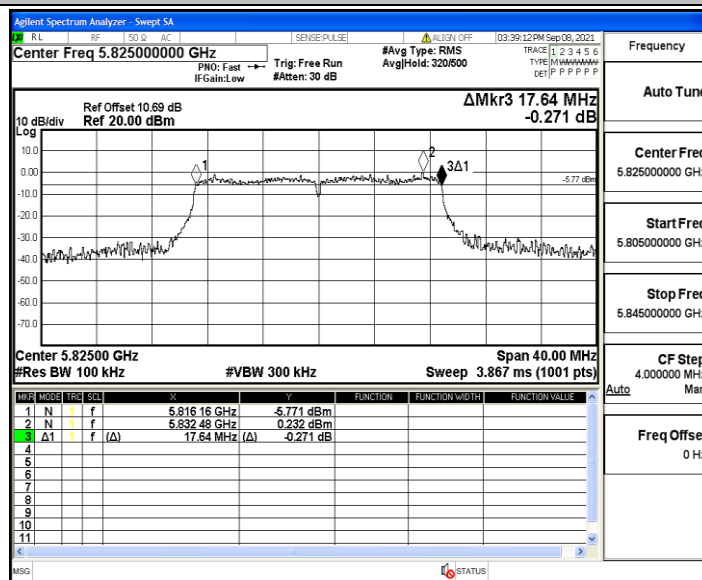
11N20MIMO_Ant1_5785



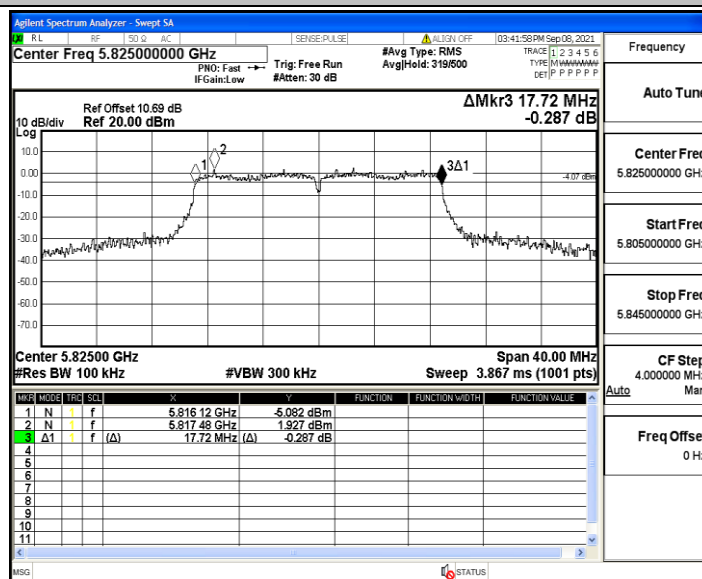
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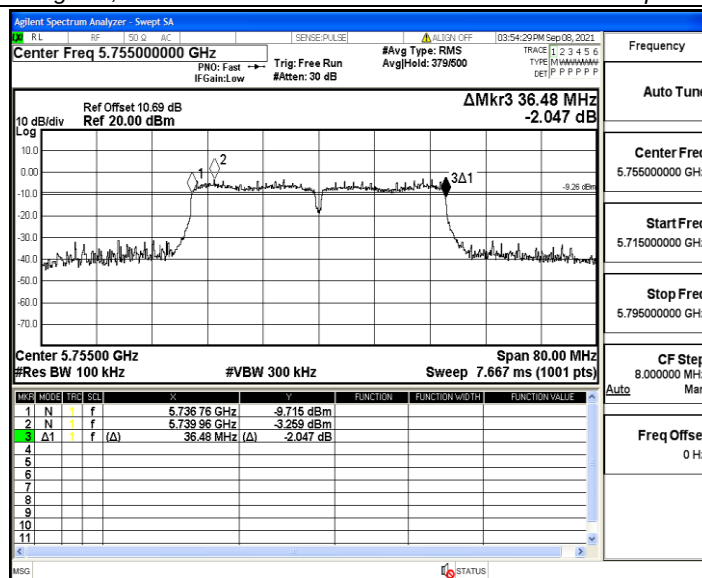
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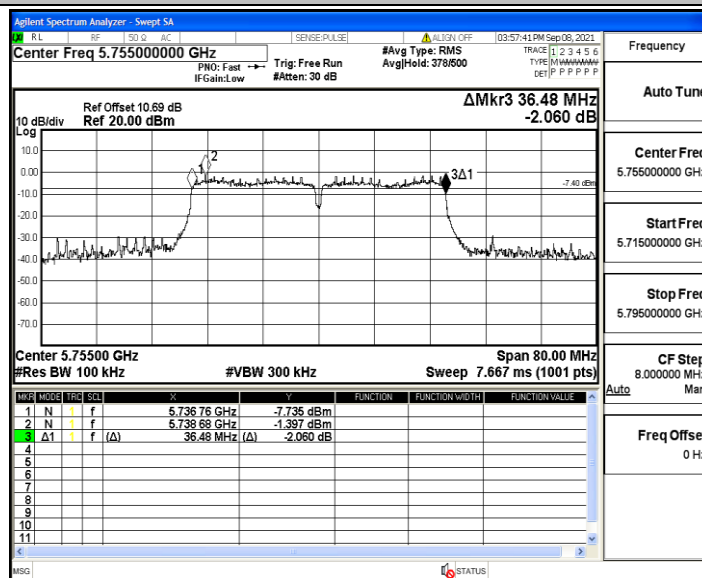
11N20MIMO_Ant2_5825



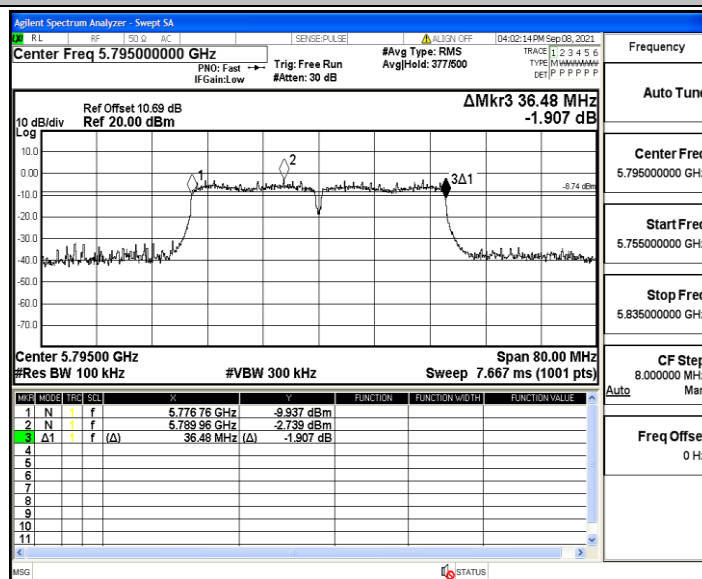
11N40MIMO_Ant1_5755



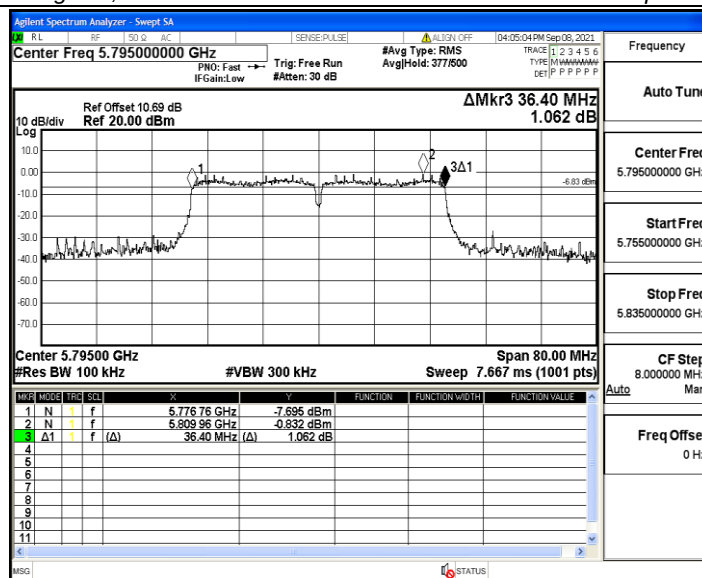
11N40MIMO_Ant2_5755



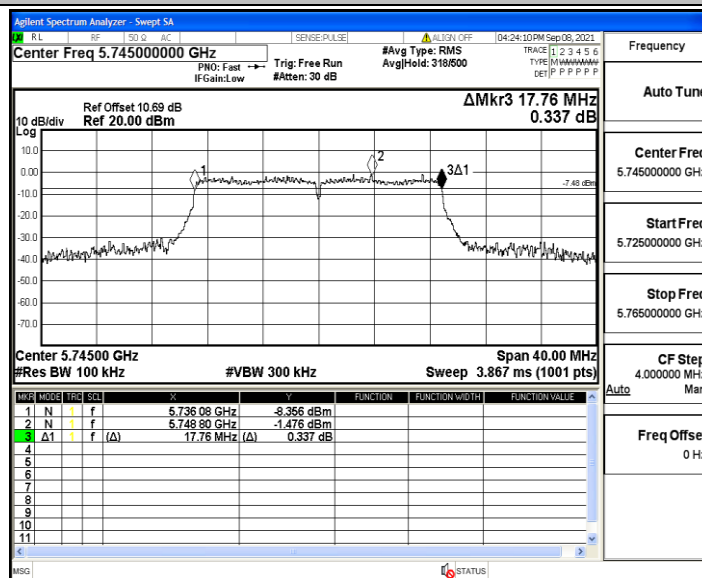
11N40MIMO_Ant1_5795



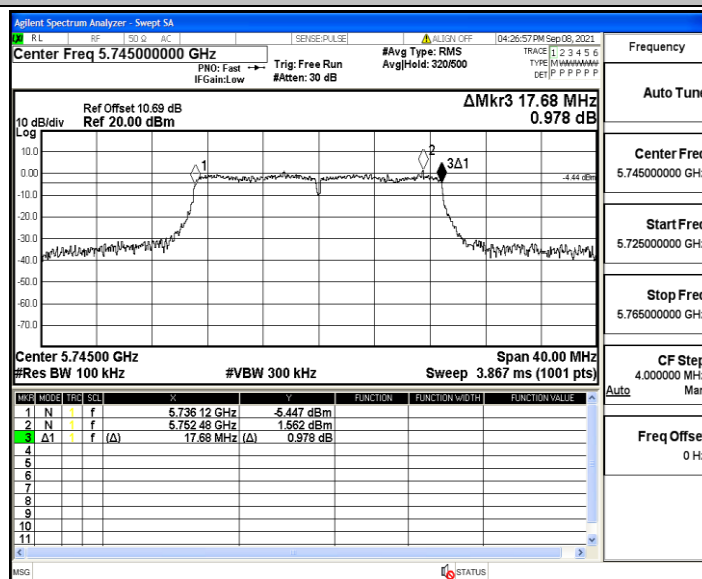
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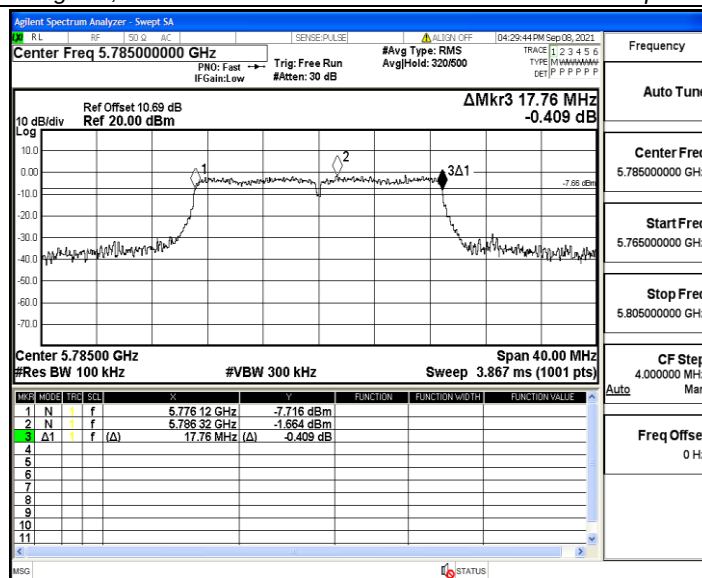
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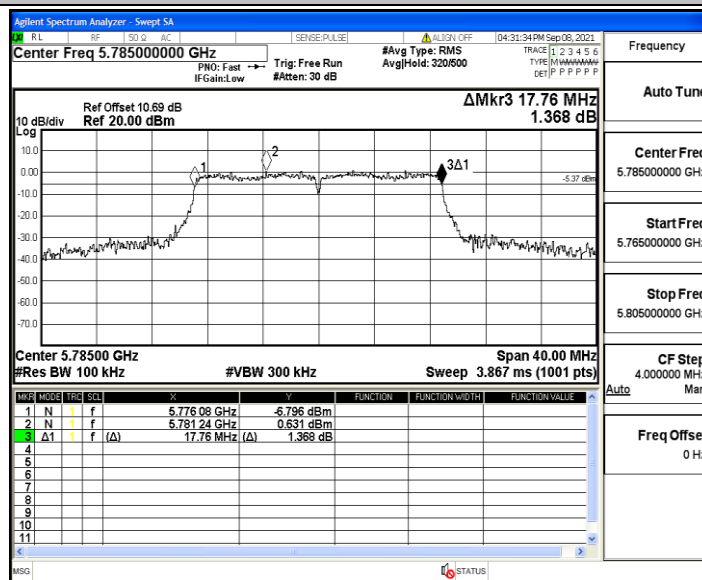
11AC20MIMO_Ant2_5745



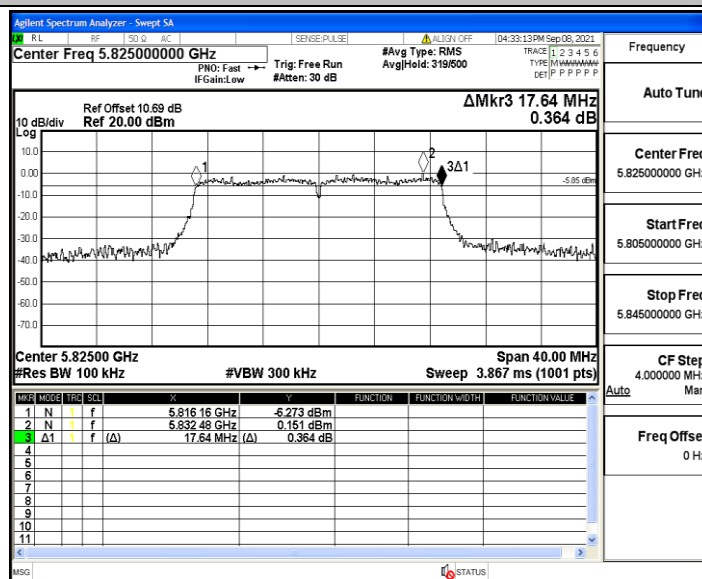
11AC20MIMO_Ant1_5785



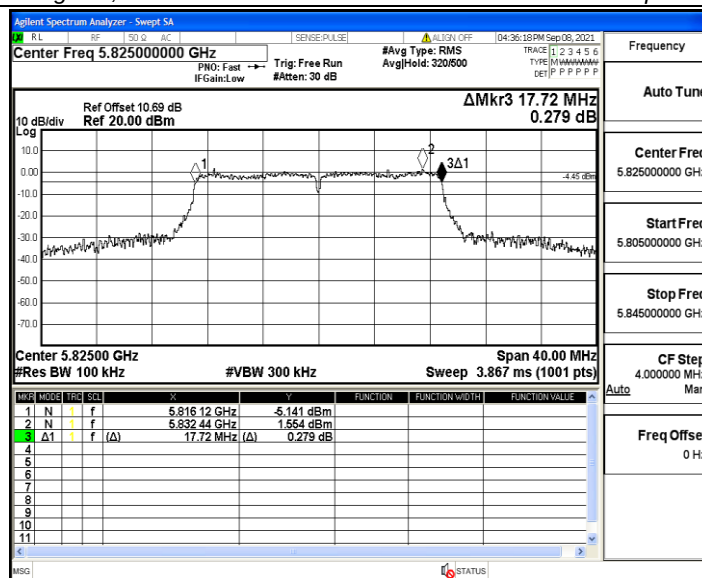
11AC20MIMO_Ant2_5785



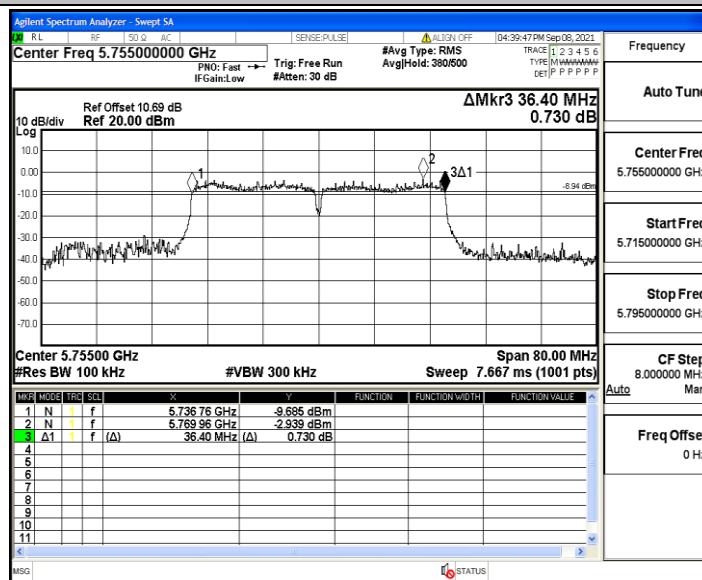
11AC20MIMO_Ant1_5825



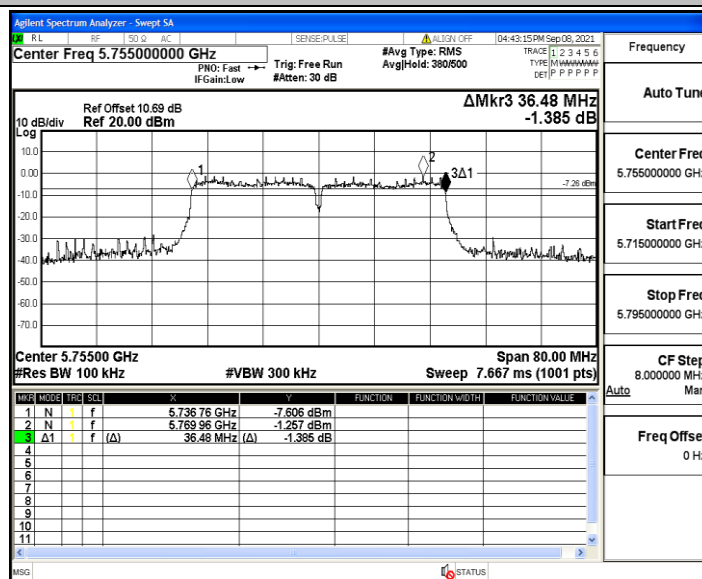
11AC20MIMO_Ant2_5825



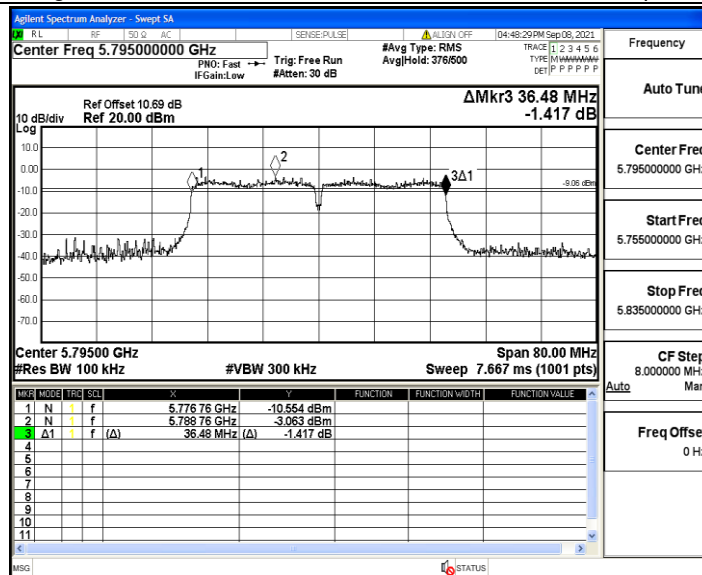
11AC40MIMO_Ant1_5755



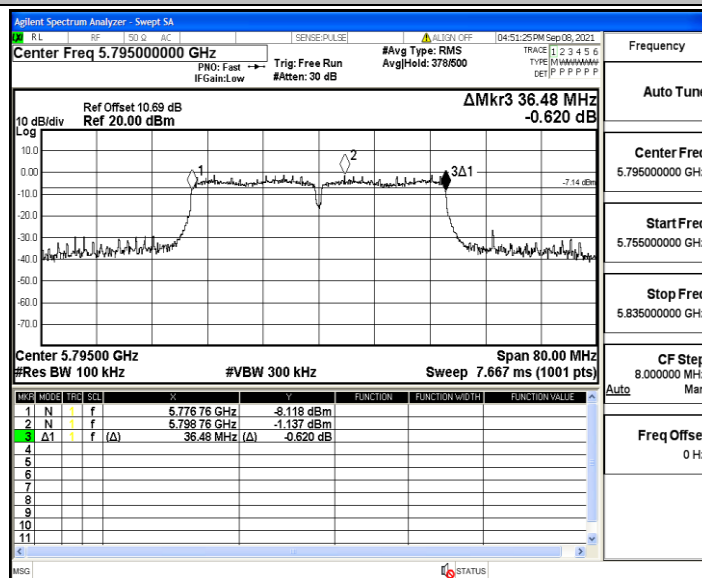
11AC40MIMO_Ant2_5755



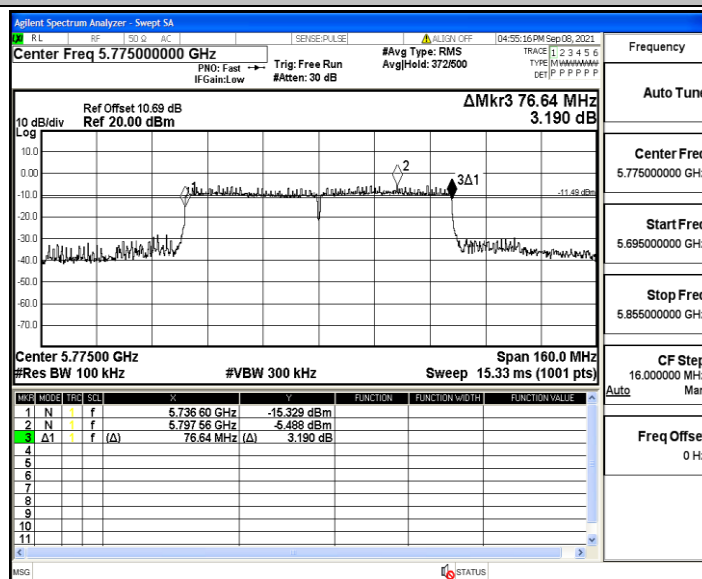
11AC40MIMO_Ant1_5795



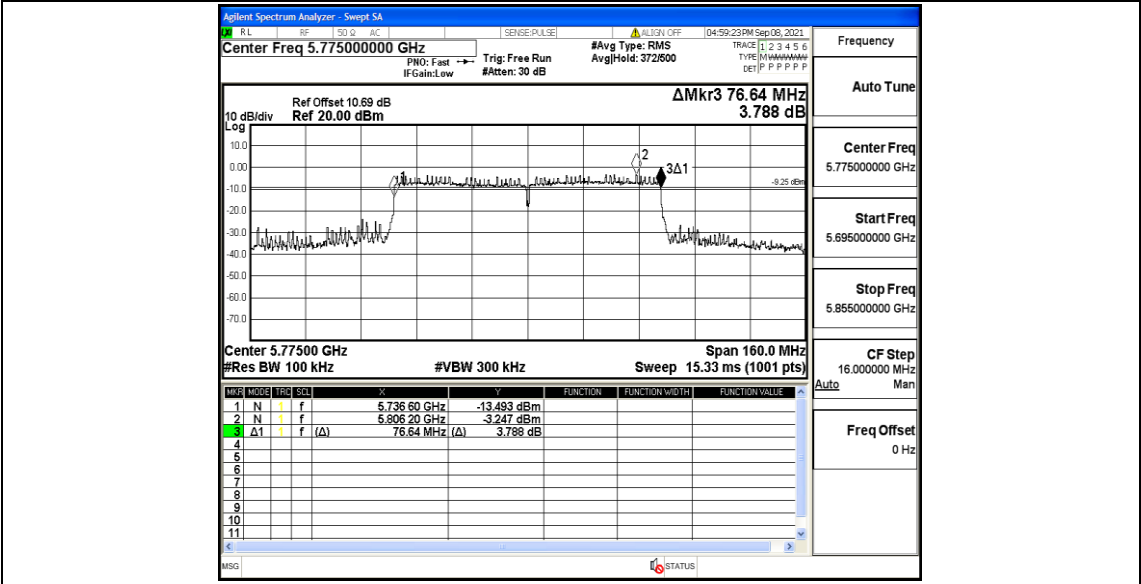
11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	12.62	≤30	PASS
	Ant2	5745	14.50	≤30	PASS
	Ant1	5785	12.67	≤30	PASS
	Ant2	5785	14.60	≤30	PASS
	Ant1	5825	13.02	≤30	PASS
	Ant2	5825	15.32	≤30	PASS
11N20MIMO	Ant1	5745	12.84	≤30	PASS
	Ant2	5745	13.72	≤30	PASS
	total	5745	16.3	≤29.17	PASS
	Ant1	5785	11.87	≤30	PASS
	Ant2	5785	13.75	≤30	PASS
	total	5785	15.9	≤29.17	PASS
	Ant1	5825	12.09	≤30	PASS
	Ant2	5825	14.37	≤30	PASS
	total	5825	16.4	≤29.17	PASS
11N40MIMO	Ant1	5755	11.47	≤30	PASS
	Ant2	5755	13.35	≤30	PASS
	total	5755	15.5	≤29.17	PASS
	Ant1	5795	11.75	≤30	PASS
	Ant2	5795	13.81	≤30	PASS
	total	5795	15.9	≤29.17	PASS
11AC20MIMO	Ant1	5745	11.68	≤30	PASS
	Ant2	5745	13.71	≤30	PASS
	total	5745	15.8	≤29.17	PASS
	Ant1	5785	11.95	≤30	PASS
	Ant2	5785	13.91	≤30	PASS
	total	5785	16.0	≤29.17	PASS
	Ant1	5825	12.16	≤30	PASS
	Ant2	5825	14.55	≤30	PASS
	total	5825	16.5	≤29.17	PASS
11AC40MIMO	Ant1	5755	11.36	≤30	PASS
	Ant2	5755	13.42	≤30	PASS
	total	5755	15.5	≤29.17	PASS
	Ant1	5795	11.74	≤30	PASS
	Ant2	5795	13.89	≤30	PASS
	total	5795	16.0	≤29.17	PASS
11AC80MIMO	Ant1	5775	10.09	≤30	PASS
	Ant2	5775	12.06	≤30	PASS
	total	5775	14.2	≤29.17	PASS

Appendix C: Maximum power spectral density

Test Result

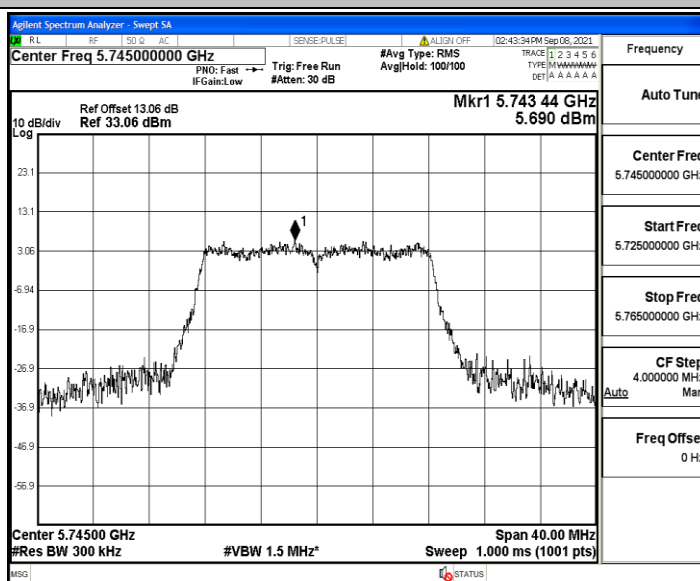
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	5.69	≤30	PASS
	Ant2	5745	7.67	≤30	PASS
	Ant1	5785	5.81	≤30	PASS
	Ant2	5785	7.75	≤30	PASS
	Ant1	5825	5.87	≤30	PASS
	Ant2	5825	9.09	≤30	PASS
11N20MIMO	Ant1	5745	5.59	≤30	PASS
	Ant2	5745	6.19	≤30	PASS
	total	5745	8.91	≤29.17	PASS
	Ant1	5785	4.8	≤30	PASS
	Ant2	5785	6.63	≤30	PASS
	total	5785	8.82	≤29.17	PASS
	Ant1	5825	5.69	≤30	PASS
	Ant2	5825	6.88	≤30	PASS
	total	5825	9.34	≤29.17	PASS
11N40MIMO	Ant1	5755	1.72	≤30	PASS
	Ant2	5755	3.01	≤30	PASS
	total	5755	5.42	≤29.17	PASS
	Ant1	5795	1.49	≤30	PASS
	Ant2	5795	4.15	≤30	PASS
	total	5795	6.03	≤29.17	PASS
11AC20MIMO	Ant1	5745	4.63	≤30	PASS
	Ant2	5745	6.24	≤30	PASS
	total	5745	8.52	≤29.17	PASS
	Ant1	5785	5.05	≤30	PASS
	Ant2	5785	6.28	≤30	PASS
	total	5785	8.72	≤29.17	PASS
	Ant1	5825	6.43	≤30	PASS
	Ant2	5825	7.94	≤30	PASS
	total	5825	10.26	≤29.17	PASS
11AC40MIMO	Ant1	5755	1.37	≤30	PASS
	Ant2	5755	3.53	≤30	PASS
	total	5755	5.59	≤29.17	PASS
	Ant1	5795	1.55	≤30	PASS
	Ant2	5795	3.79	≤30	PASS
	total	5795	5.82	≤29.17	PASS
11AC80MIMO	Ant1	5775	-3.97	≤30	PASS
	Ant2	5775	-1.33	≤30	PASS
	total	5775	0.56	≤29.17	PASS

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

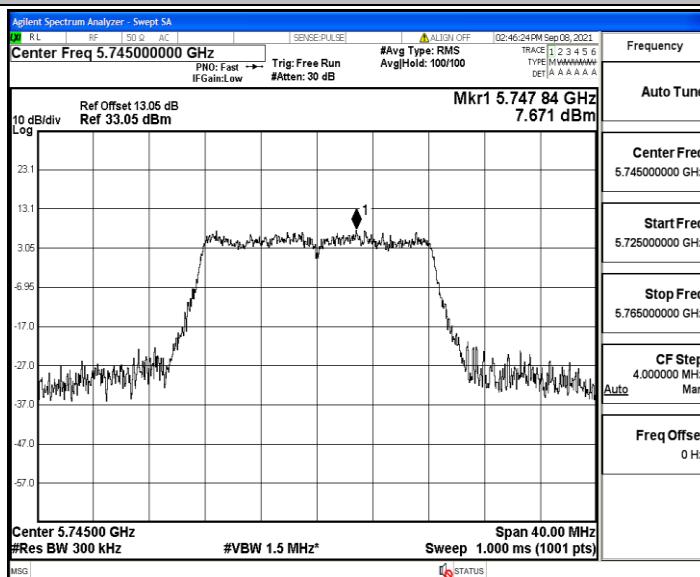
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

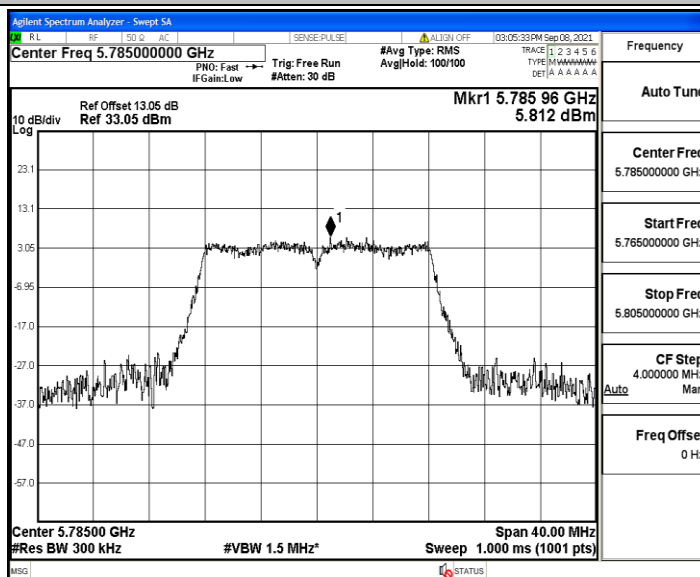
11A_Ant1_5745



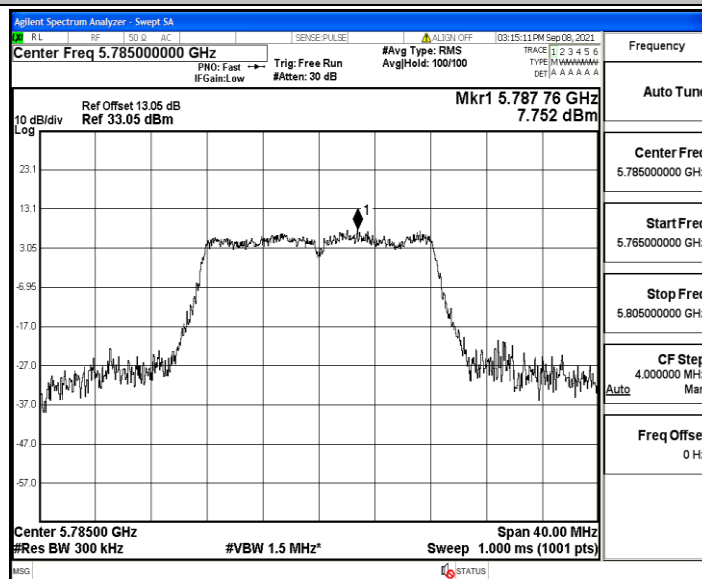
11A_Ant2_5745



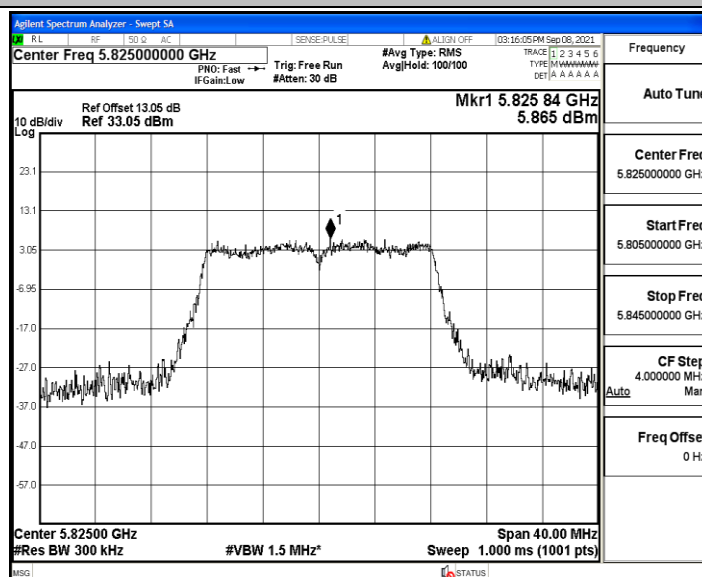
11A_Ant1_5785



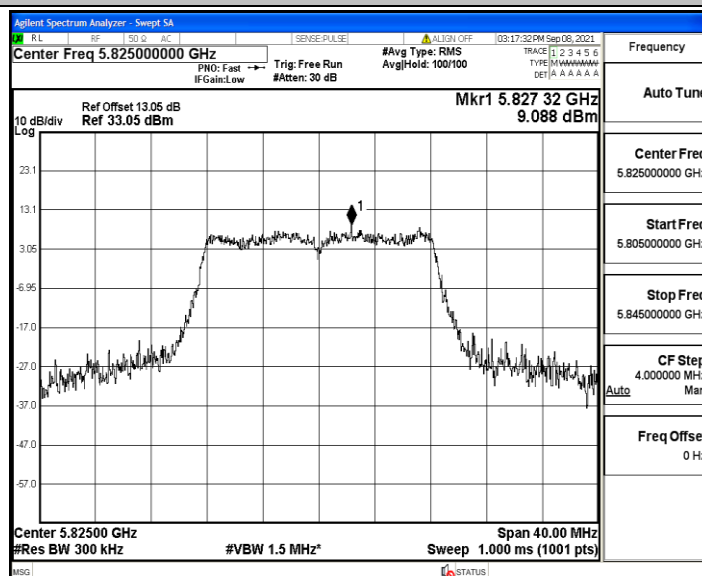
11A_Ant2_5785



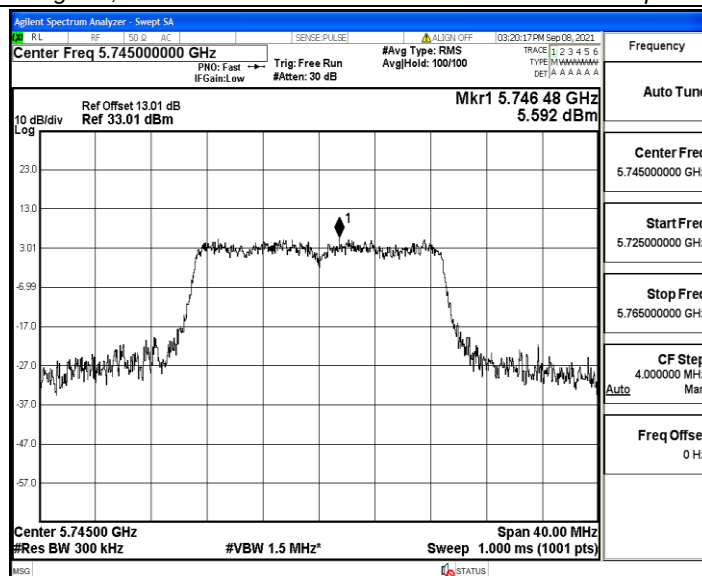
11A_Ant1_5825



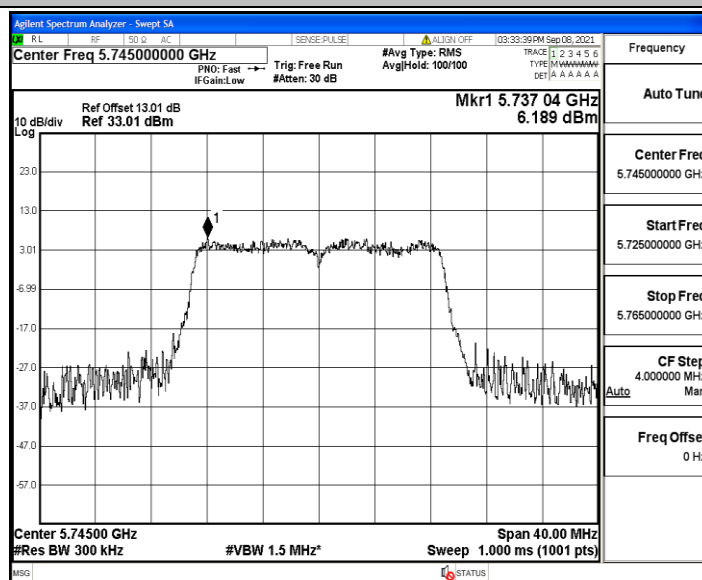
11A_Ant2_5825



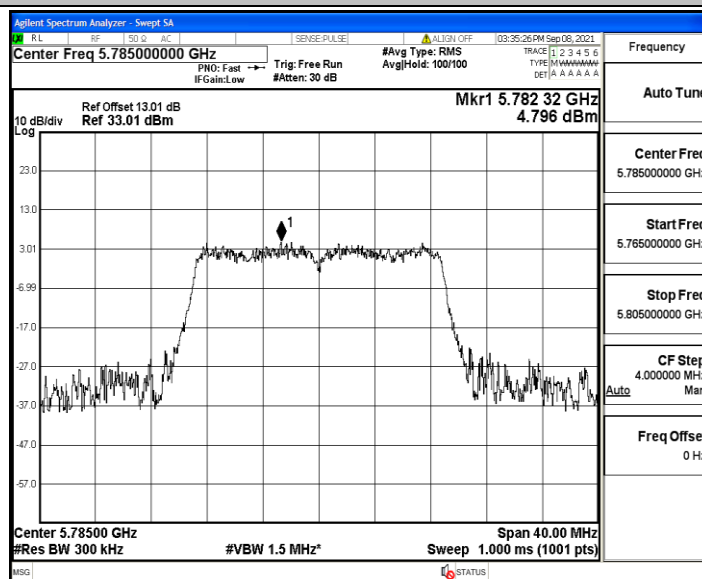
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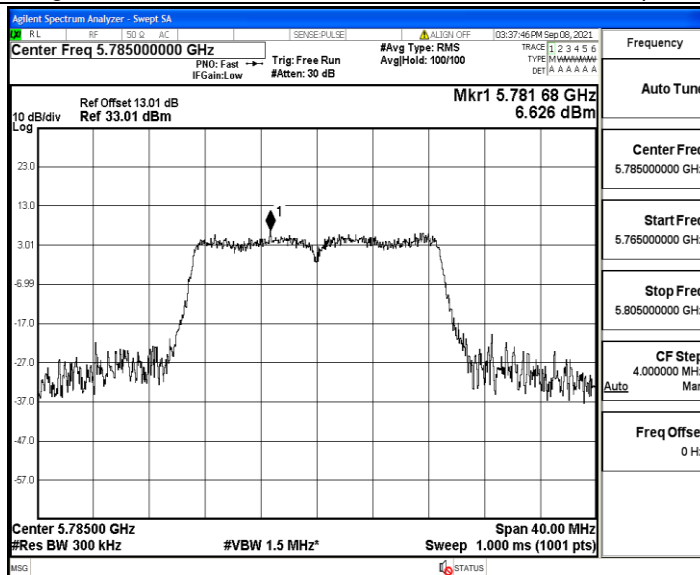
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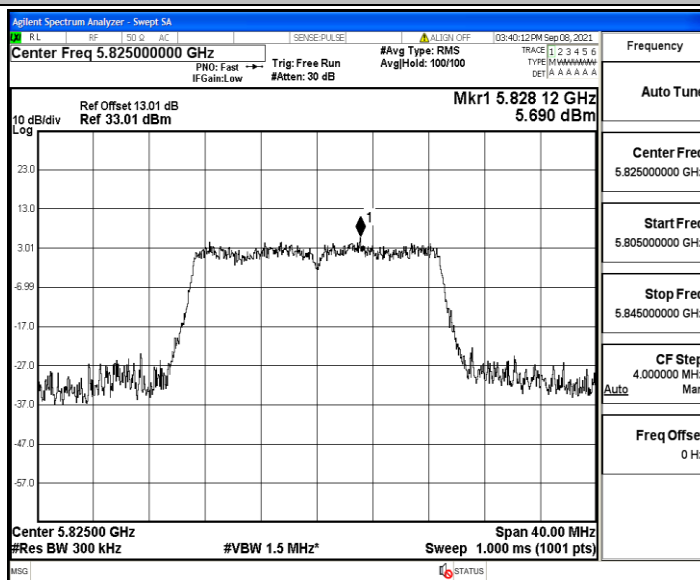
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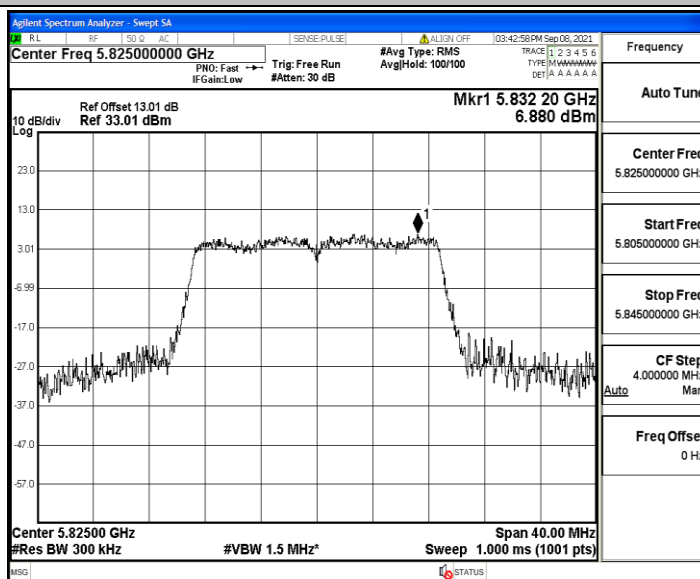
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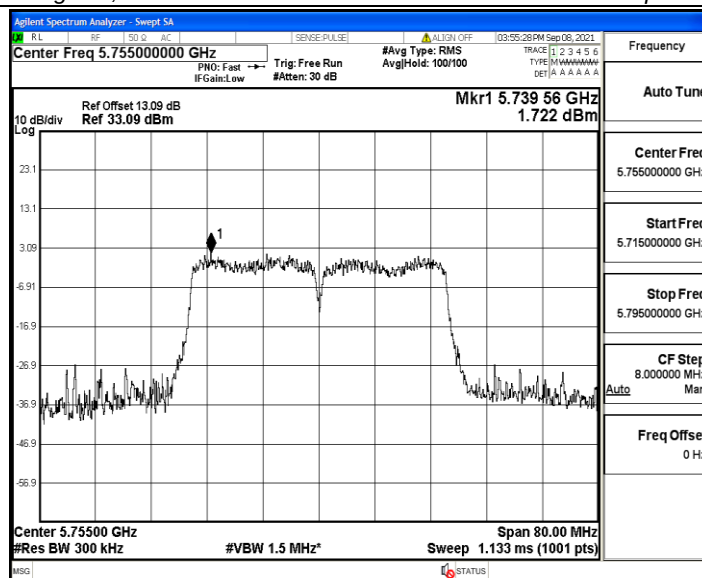
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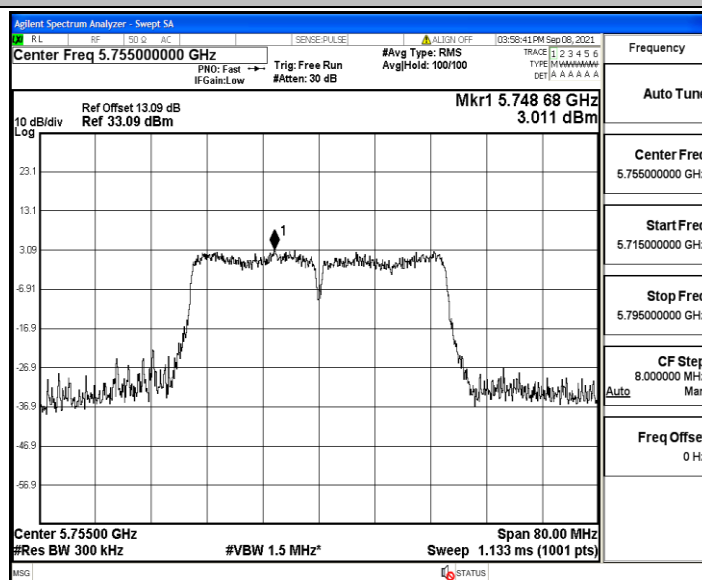
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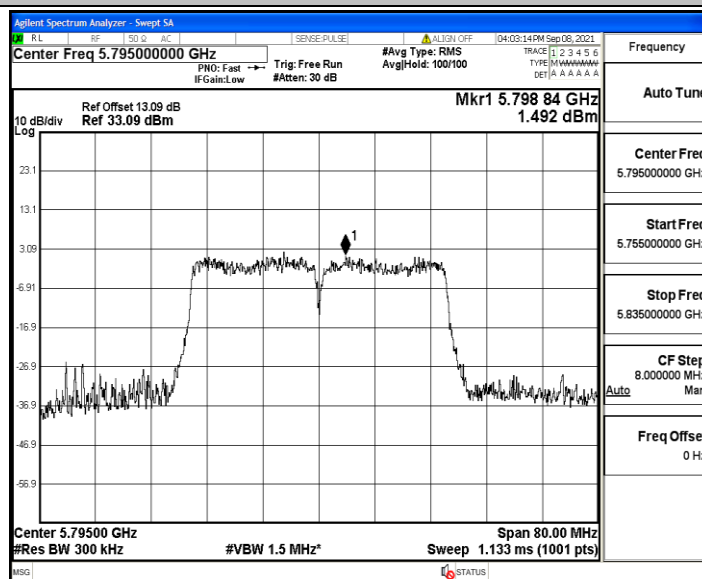
11N40MIMO_Ant1_5755



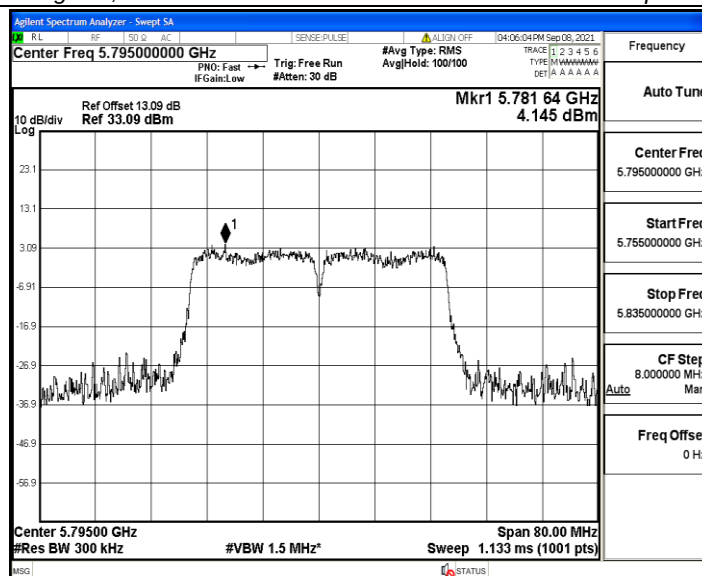
11N40MIMO_Ant2_5755



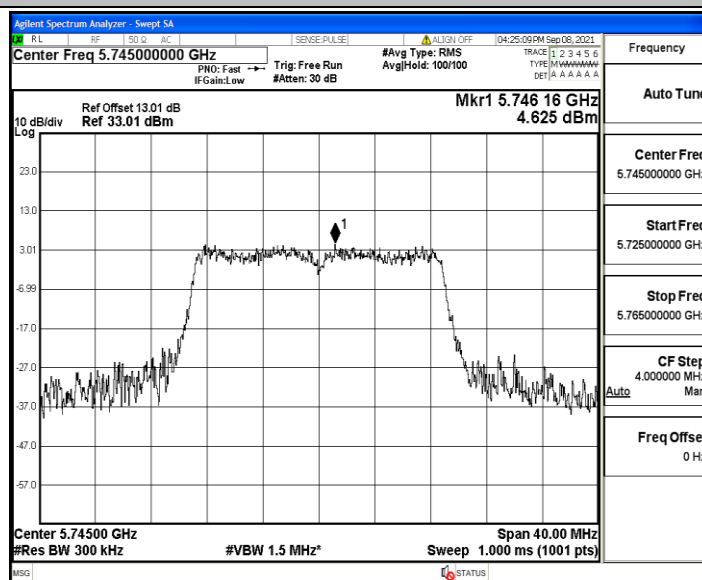
11N40MIMO_Ant1_5795



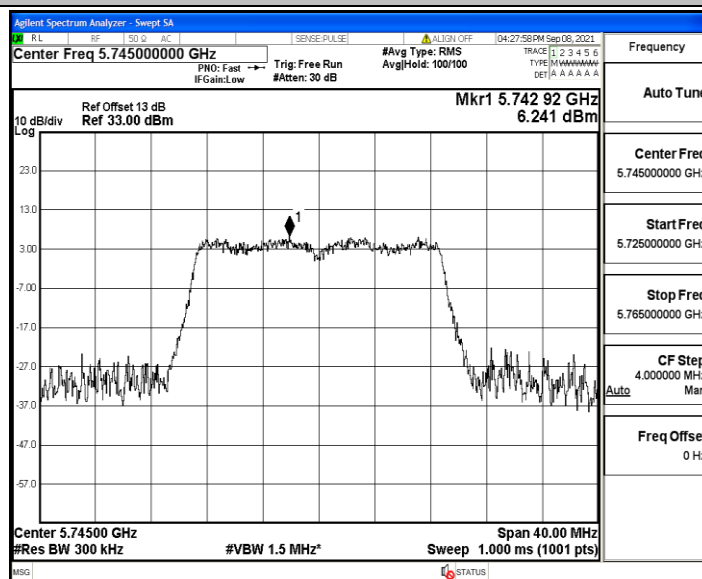
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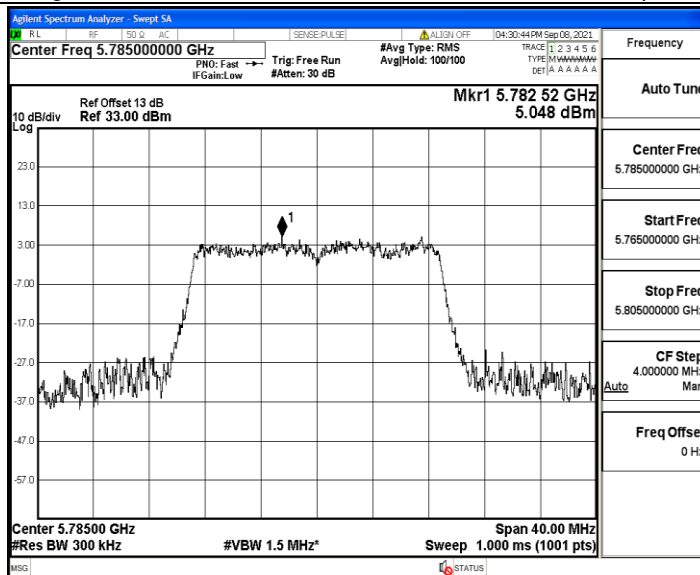
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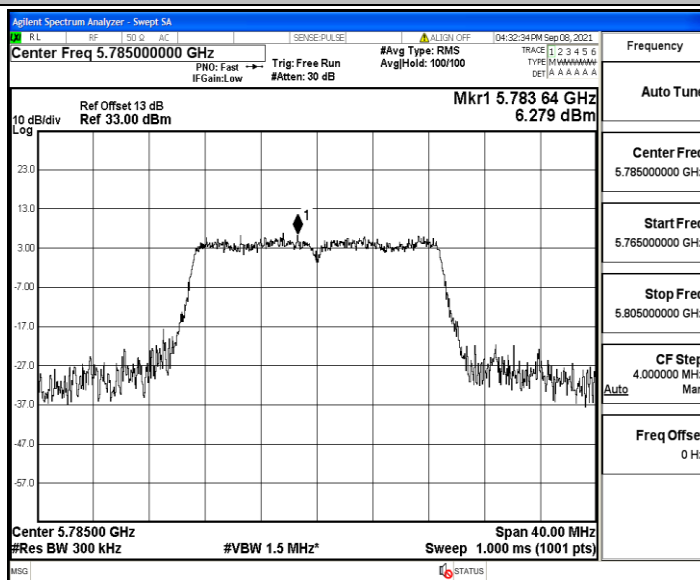
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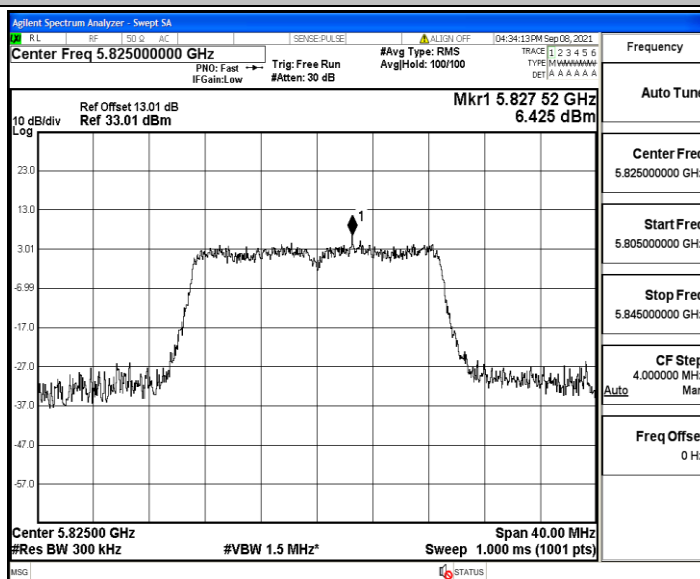
11AC20MIMO_Ant1_5785



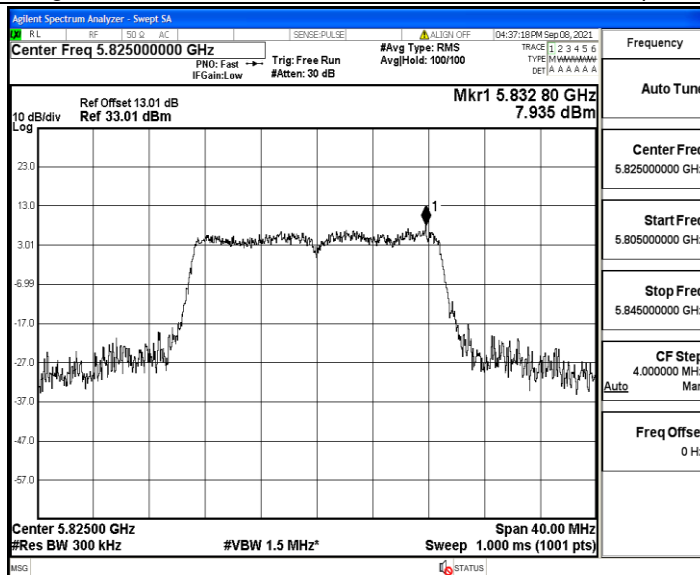
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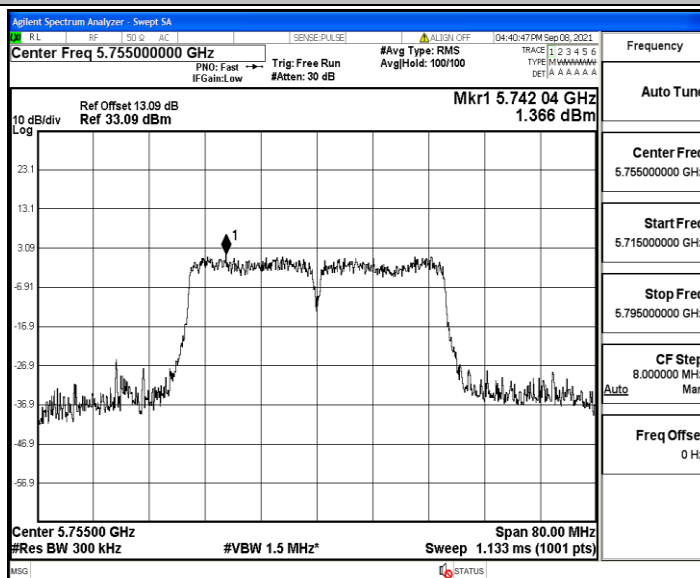
11AC20MIMO_Ant1_5825



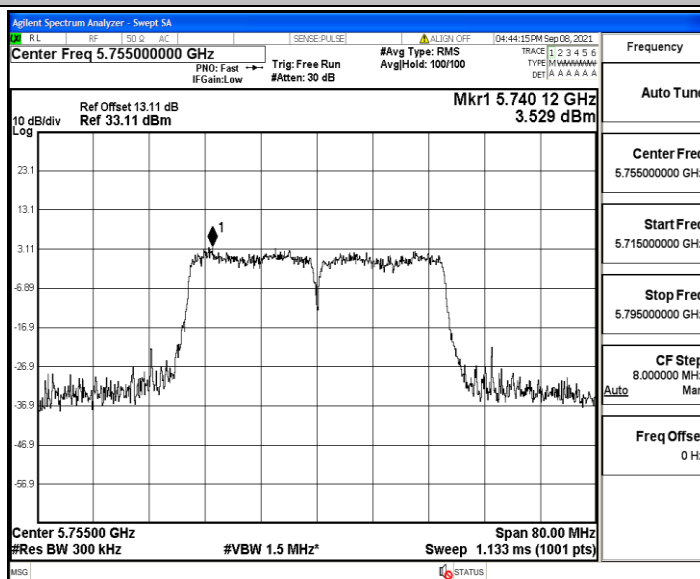
11AC20MIMO_Ant2_5825



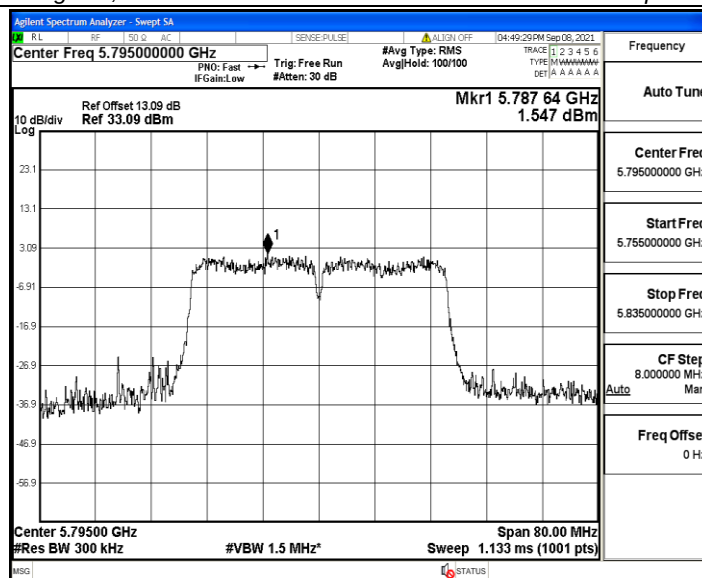
11AC40MIMO_Ant1_5755



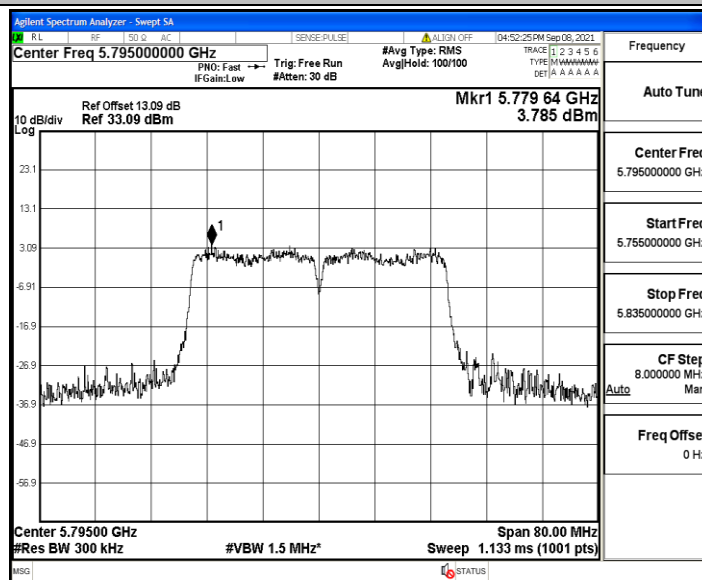
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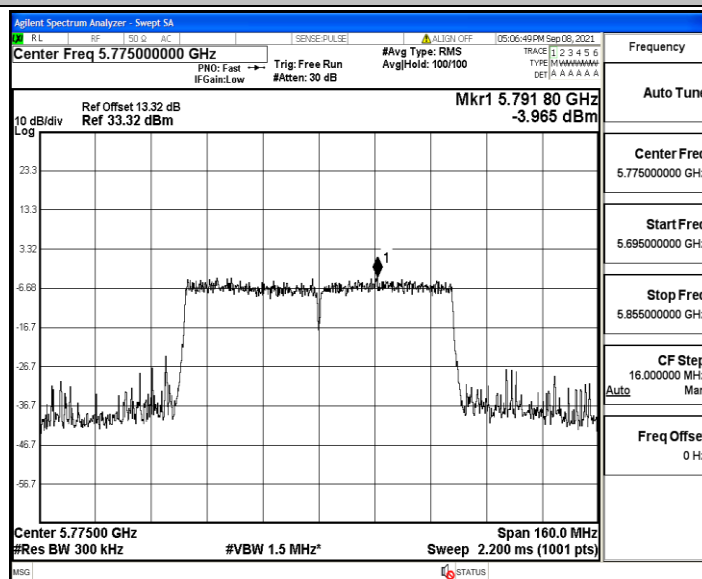
11AC40MIMO_Ant1_5795



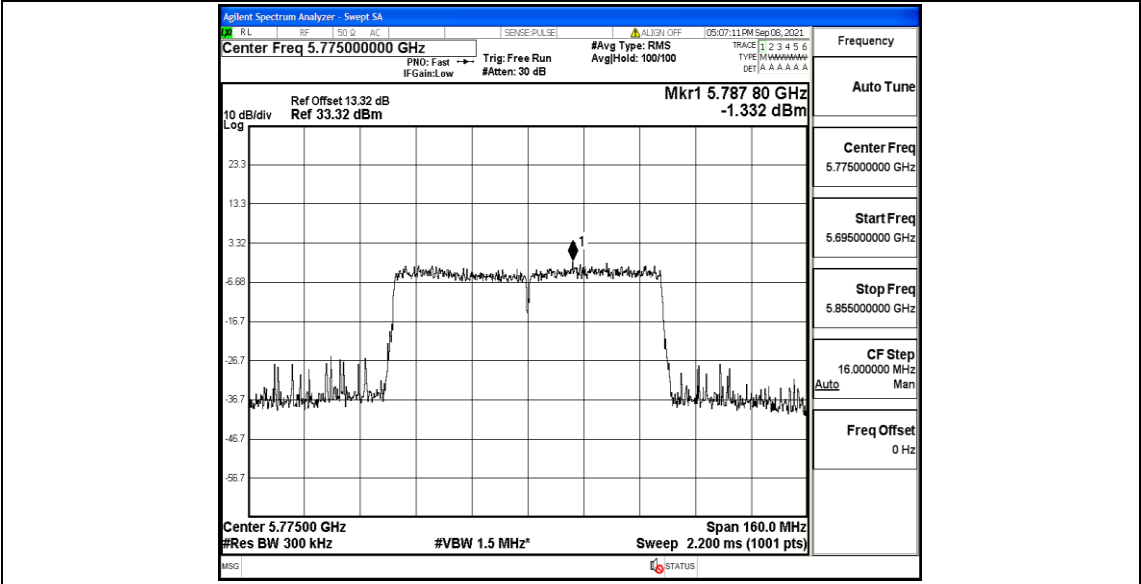
11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix D: Band edge measurements

Test Result

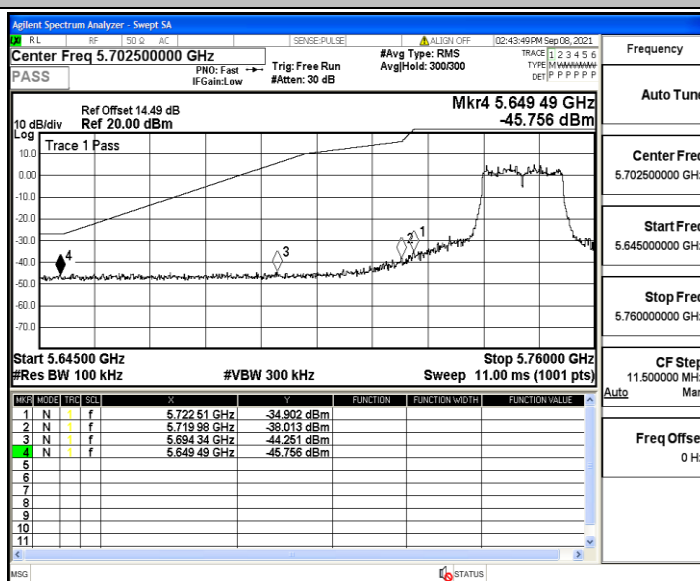
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-44.25	≤5.81	PASS
				5700~5720	-38.01	≤15.59	PASS
				5720~5725	-34.9	≤21.32	PASS
				5760~5650	-45.76	≤-27	PASS
	Ant2	Low	5745	5650~5700	-43.72	≤8.87	PASS
				5700~5720	-35.61	≤15.59	PASS
				5720~5725	-30.65	≤21.32	PASS
				5760~5650	-45.44	≤-27	PASS
	Ant1	High	5825	5850~5855	-44.32	≤16.72	PASS
				5855~5875	-42.86	≤10.66	PASS
				5875~5925	-43.76	≤0.62	PASS
				5925~5935	-43.31	≤-27	PASS
	Ant2	High	5825	5850~5855	-34.23	≤16.41	PASS
				5855~5875	-37.07	≤10.36	PASS
				5875~5925	-42.89	≤-23.76	PASS
				5925~5935	-43.94	≤-27	PASS
11N20MIMO	Ant1	Low	5745	5650~5700	-43.9	≤8.62	PASS
				5700~5720	-35.35	≤15.43	PASS
				5720~5725	-30.09	≤23.42	PASS
				5760~5650	-45.39	≤-27	PASS
	Ant2	Low	5745	5650~5700	-42.11	≤1.55	PASS
				5700~5720	-32.26	≤15.53	PASS
				5720~5725	-27.98	≤26.30	PASS
				5760~5650	-45.65	≤-27	PASS
	Ant1	High	5825	5850~5855	-32.25	≤17.64	PASS
				5855~5875	-36.26	≤10.44	PASS
				5875~5925	-41.67	≤-25.66	PASS
				5925~5935	-43.07	≤-27	PASS
	Ant2	High	5825	5850~5855	-34.31	≤24.10	PASS
				5855~5875	-37.93	≤10.02	PASS
				5875~5925	-42.55	≤-25.96	PASS
				5925~5935	-43.44	≤-27	PASS
11N40MIMO	Ant1	Low	5755	5650~5700	-35.67	≤9.06	PASS
				5700~5720	-30.04	≤15.24	PASS
				5720~5725	-30.45	≤18.20	PASS
				5780~5650	-45.92	≤-27	PASS
	Ant2	Low	5755	5650~5700	-33.84	≤9.06	PASS
				5700~5720	-27.02	≤14.90	PASS
				5720~5725	-26.48	≤18.51	PASS

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
	Ant1	High	5795	5780~5650	-45.35	≤-27	PASS
				5850~5855	-36.74	≤18.29	PASS
				5855~5875	-38.92	≤10.22	PASS
				5875~5925	-41.18	≤-21.92	PASS
	Ant2	High	5795	5925~5935	-42.23	≤-27	PASS
				5850~5855	-31.78	≤18.29	PASS
				5855~5875	-37.97	≤11.79	PASS
				5875~5925	-41.4	≤-24.24	PASS
11AC20MIMO	Ant1	Low	5745	5925~5935	-44.2	≤-27	PASS
				5650~5700	-44.33	≤-14.36	PASS
				5700~5720	-36.78	≤15.59	PASS
				5720~5725	-33.79	≤24.21	PASS
	Ant2	Low	5745	5760~5650	-45.39	≤-27	PASS
				5650~5700	-43.57	≤-9.43	PASS
				5700~5720	-36.75	≤15.43	PASS
				5720~5725	-30.97	≤23.94	PASS
	Ant1	High	5825	5760~5650	-45.64	≤-27	PASS
				5850~5855	-32.99	≤17.33	PASS
				5855~5875	-35.67	≤10.25	PASS
				5875~5925	-39.93	≤-24.46	PASS
	Ant2	High	5825	5925~5935	-44.53	≤-27	PASS
				5850~5855	-34.72	≤19.80	PASS
				5855~5875	-37.93	≤10.44	PASS
				5875~5925	-42.76	≤-26.46	PASS
11AC40MIMO	Ant1	Low	5755	5925~5935	-43.81	≤-27	PASS
				5650~5700	-35.38	≤9.06	PASS
				5700~5720	-28.35	≤15.58	PASS
				5720~5725	-28.04	≤15.74	PASS
	Ant2	Low	5755	5780~5650	-44.89	≤-27	PASS
				5650~5700	-34.28	≤9.06	PASS
				5700~5720	-27.13	≤15.58	PASS
				5720~5725	-26.6	≤15.74	PASS
	Ant1	High	5795	5780~5650	-45.16	≤-27	PASS
				5850~5855	-36.18	≤19.80	PASS
				5855~5875	-36.9	≤12.90	PASS
				5875~5925	-39.53	≤-25.82	PASS
	Ant2	High	5795	5925~5935	-44.65	≤-27	PASS
				5850~5855	-32.01	≤21.30	PASS
				5855~5875	-38.24	≤14.94	PASS
				5875~5925	-41.19	≤-24.97	PASS
11AC80MIMO	Ant1	Low	5775	5925~5935	-43.39	≤-27	PASS
				5650~5700	-26.22	≤-0.19	PASS
				5700~5720	-27.97	≤12.44	PASS
				5720~5725	-27.61	≤18.47	PASS

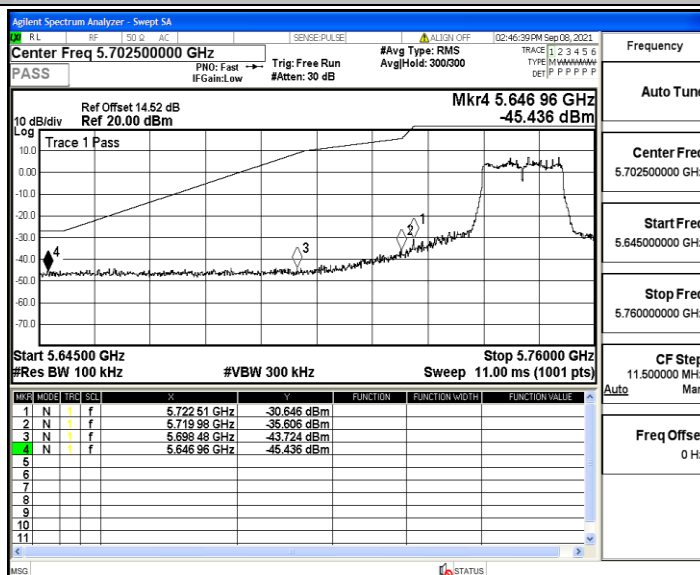
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
		High	5775	5800~5650	-40.64	≤-27	PASS
				5850~5855	-32.24	≤15.79	PASS
				5855~5875	-32.48	≤10.23	PASS
				5875~5925	-33.96	≤-26.27	PASS
				5925~5935	-40.73	≤-27	PASS
	Ant2	Low	5775	5650~5700	-23.41	≤4.40	PASS
				5700~5720	-23.63	≤14.91	PASS
				5720~5725	-23.12	≤18.47	PASS
				5800~5650	-38.34	≤-27	PASS
		High	5775	5850~5855	-31.68	≤25.92	PASS
				5855~5875	-29.55	≤11.78	PASS
				5875~5925	-32.79	≤-23.26	PASS
				5925~5935	-37.4	≤-27	PASS

Test Graphs

11A_Ant1_Low_5745



11A_Ant2_Low_5745



11A_Ant1_High_5825

