

RF Test Data for RLAN(5.8G) (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

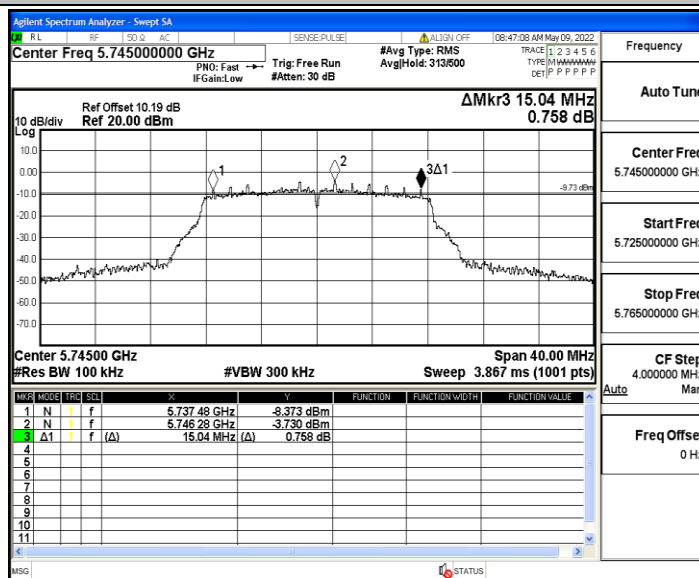
Appendix A: Min emission bandwidth

Test Result

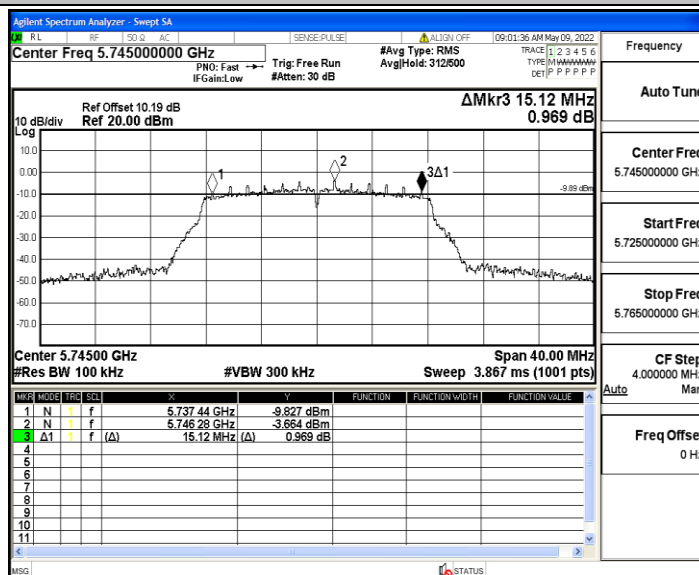
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant1	5785	15.080	5777.480	5792.560	0.5	PASS
	Ant2	5785	14.680	5777.880	5792.560	0.5	PASS
	Ant1	5825	15.040	5817.480	5832.520	0.5	PASS
	Ant2	5825	14.040	5818.520	5832.560	0.5	PASS
11N20MIMO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant1	5785	15.080	5777.480	5792.560	0.5	PASS
	Ant2	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant1	5825	15.000	5817.520	5832.520	0.5	PASS
	Ant2	5825	15.440	5817.720	5833.160	0.5	PASS
11N40MIMO	Ant1	5755	35.120	5737.480	5772.600	0.5	PASS
	Ant2	5755	35.120	5737.480	5772.600	0.5	PASS
	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
	Ant2	5795	35.040	5777.480	5812.520	0.5	PASS
11AC20MIMO	Ant1	5745	13.840	5737.480	5751.320	0.5	PASS
	Ant2	5745	15.080	5737.440	5752.520	0.5	PASS
	Ant1	5785	15.040	5777.480	5792.520	0.5	PASS
	Ant2	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant1	5825	15.000	5817.520	5832.520	0.5	PASS
	Ant2	5825	15.000	5817.520	5832.520	0.5	PASS
11AC40MIMO	Ant1	5755	35.120	5737.480	5772.600	0.5	PASS
	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
	Ant1	5795	33.920	5778.680	5812.600	0.5	PASS
	Ant2	5795	35.040	5777.480	5812.520	0.5	PASS
11AC80MIMO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs

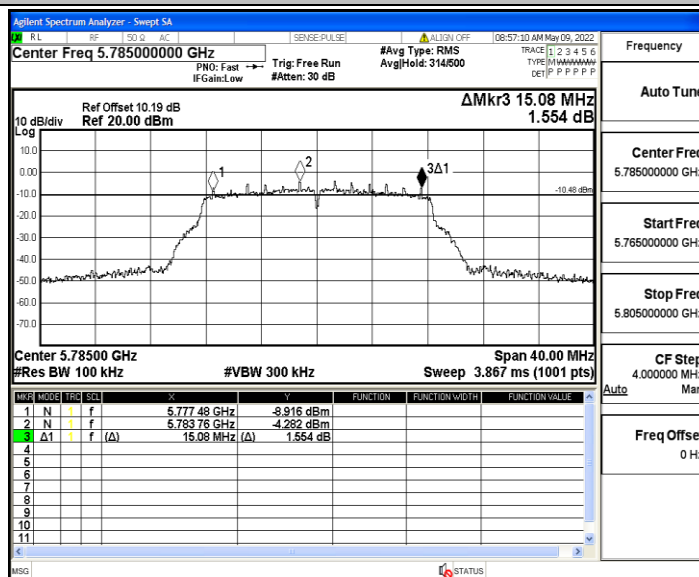
11A_Ant1_5745



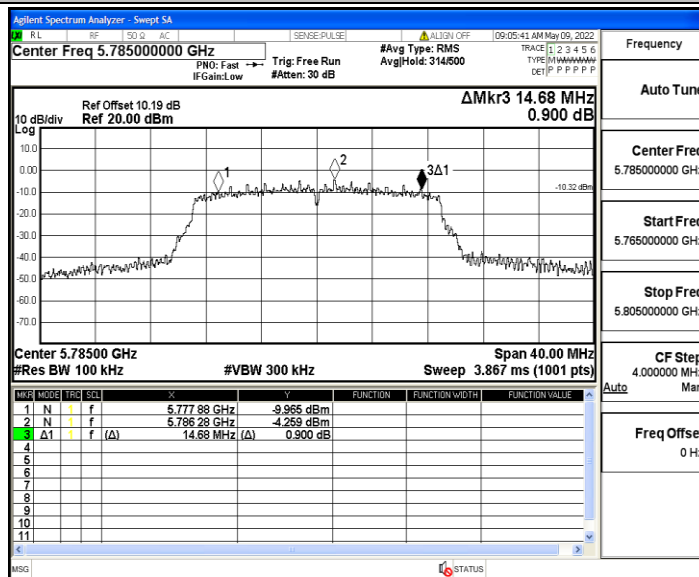
11A_Ant2_5745



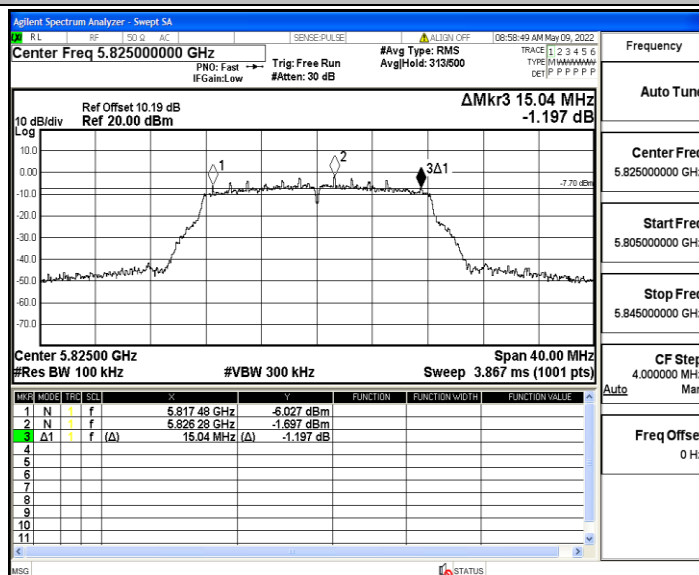
11A_Ant1_5785



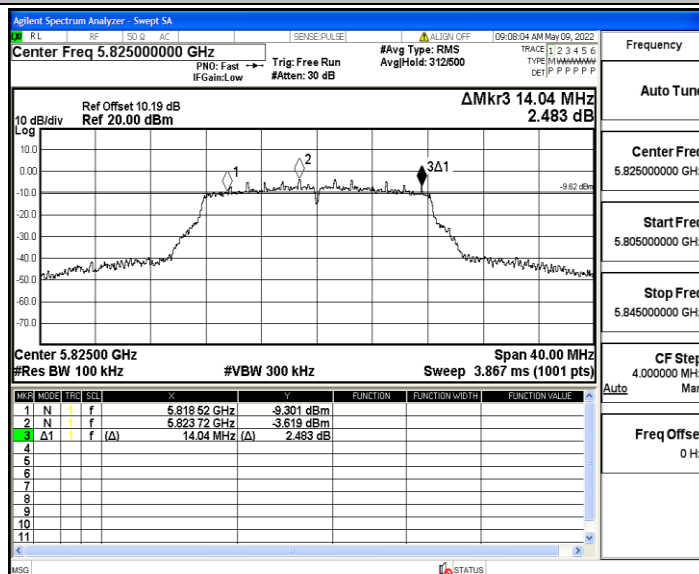
11A_Ant2_5785



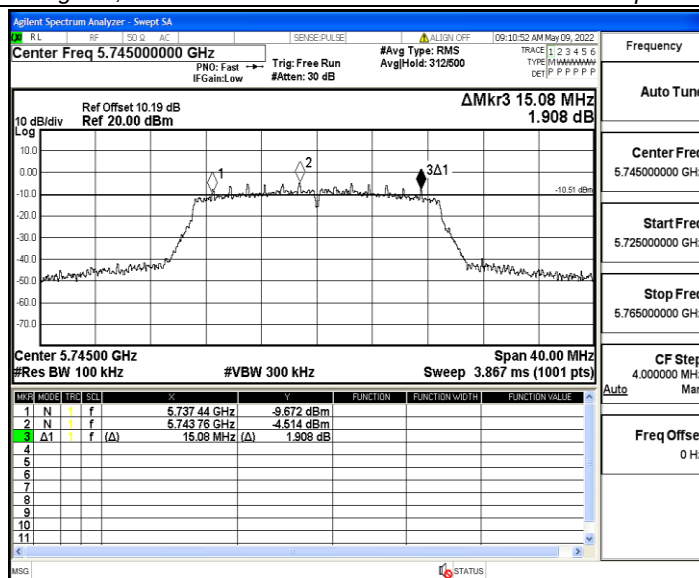
11A_Ant1_5825



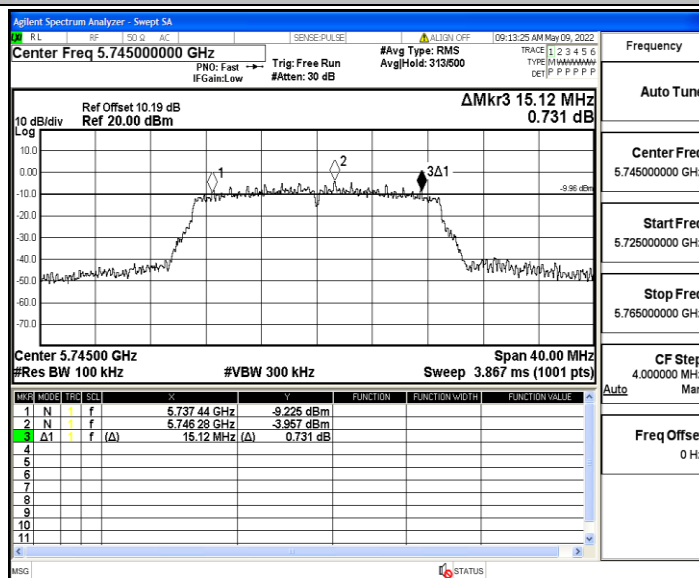
11A_Ant2_5825



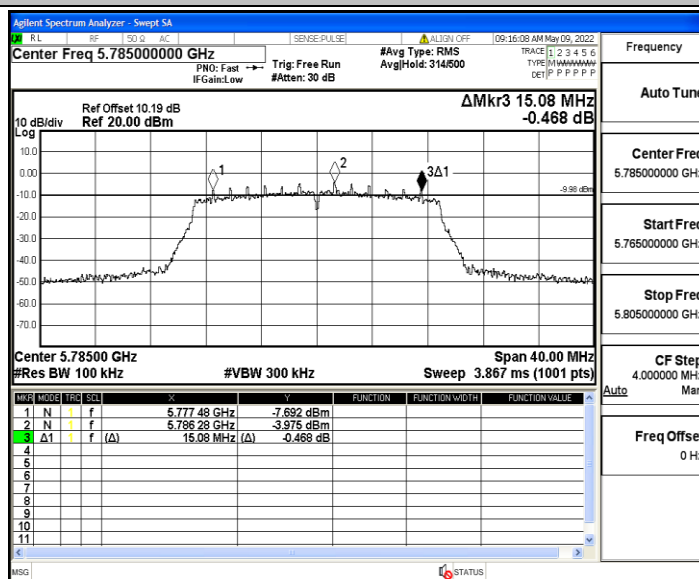
11N20MIMO_Ant1_5745



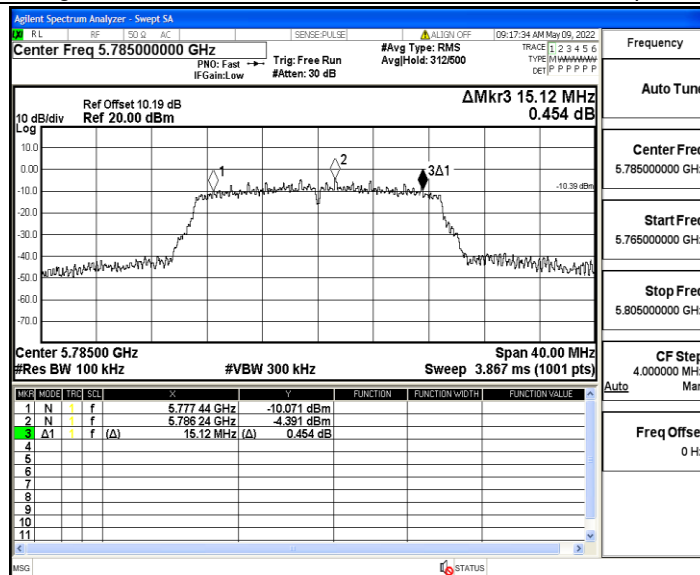
11N20MIMO_Ant2_5745



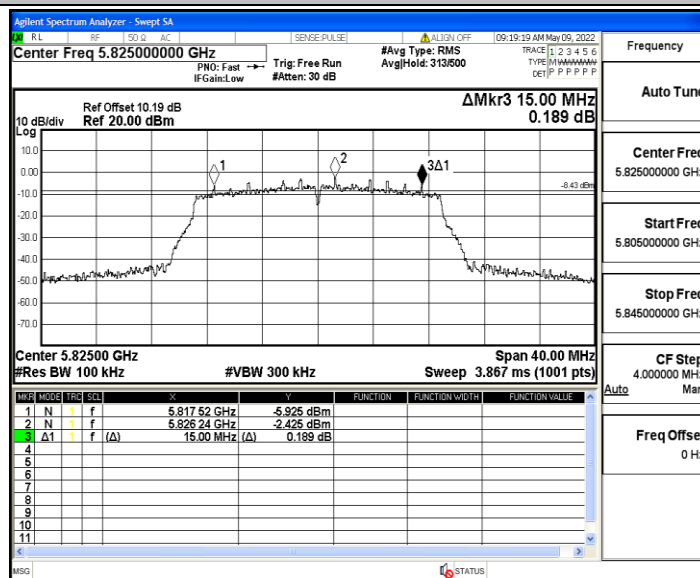
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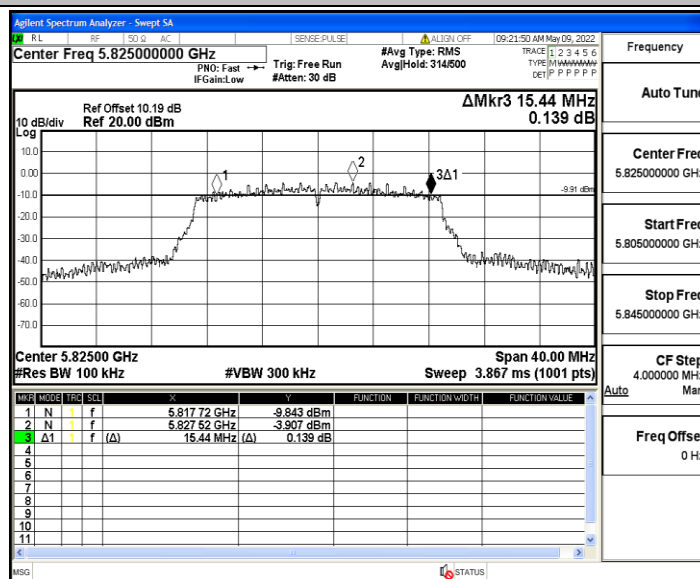
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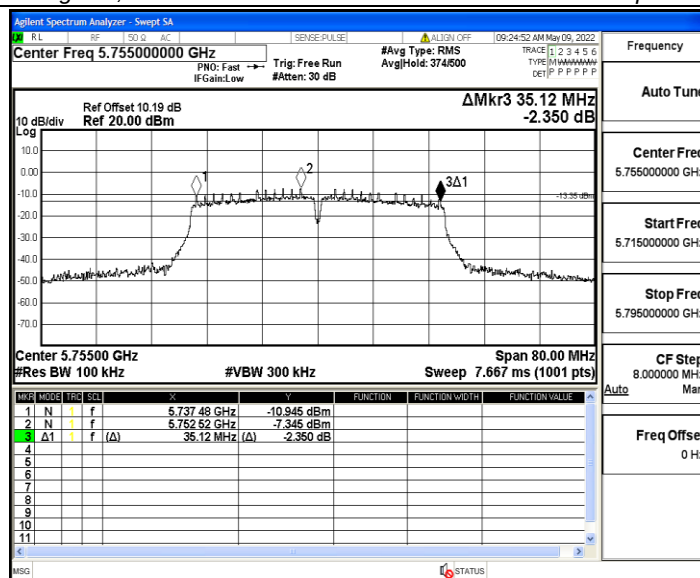
11N20MIMO_Ant1_5825



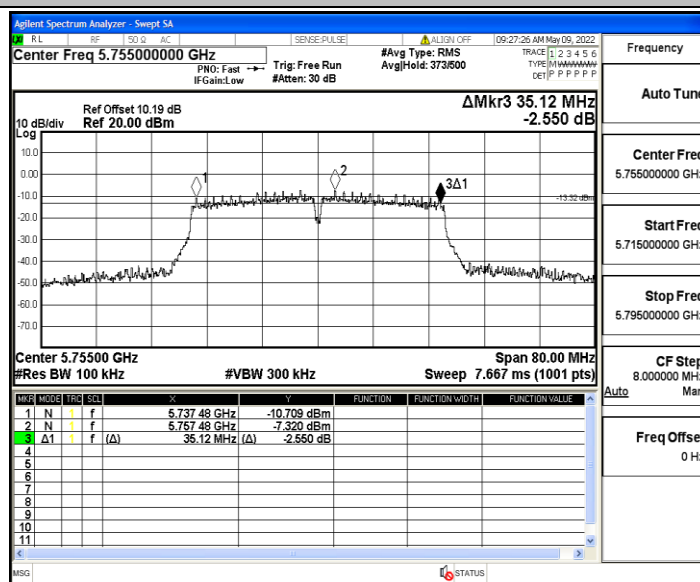
11N20MIMO_Ant2_5825



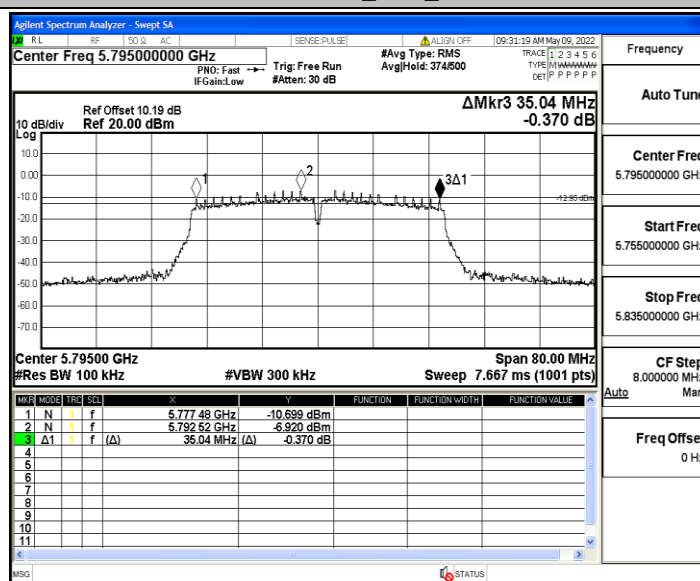
11N40MIMO_Ant1_5755



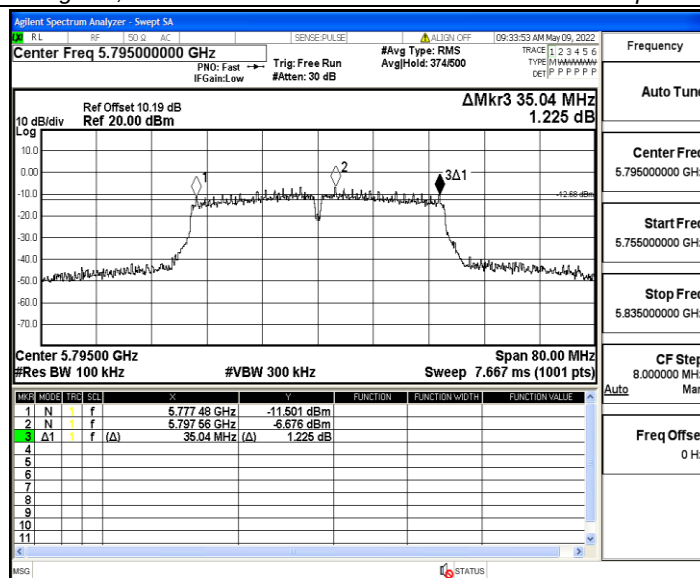
11N40MIMO_Ant2_5755



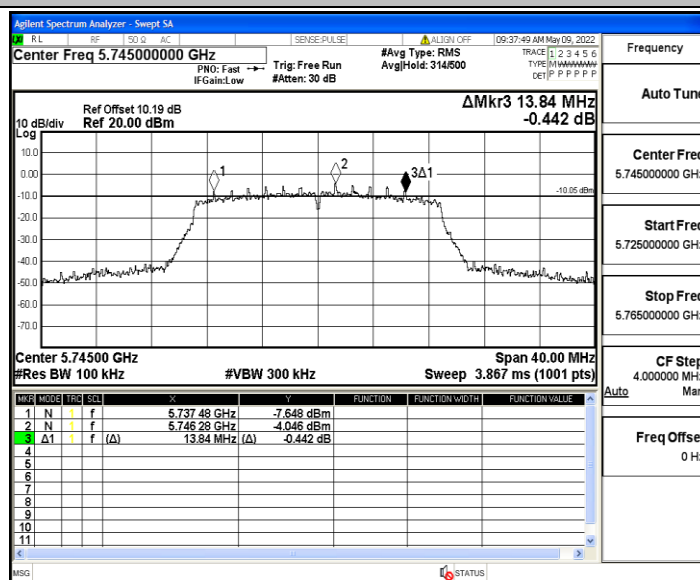
11N40MIMO_Ant1_5795



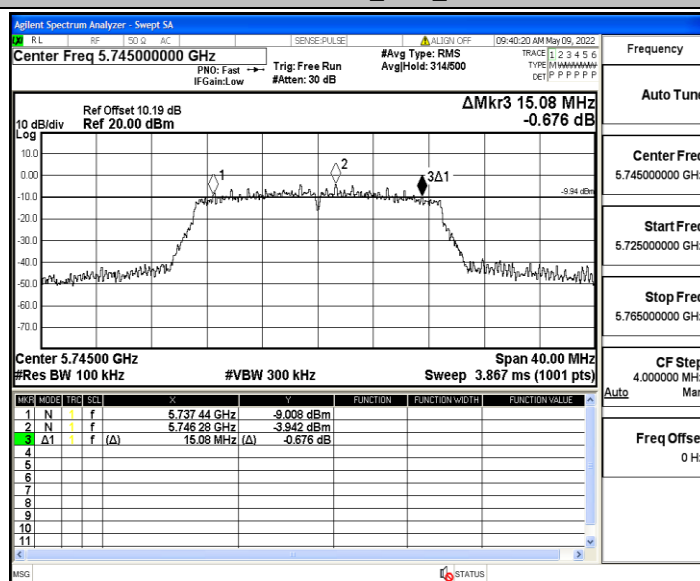
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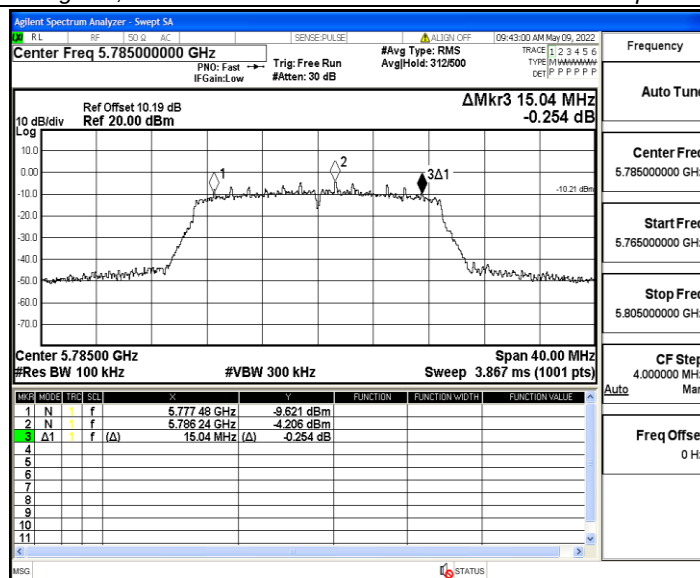
11AC20MIMO_Ant1_5745



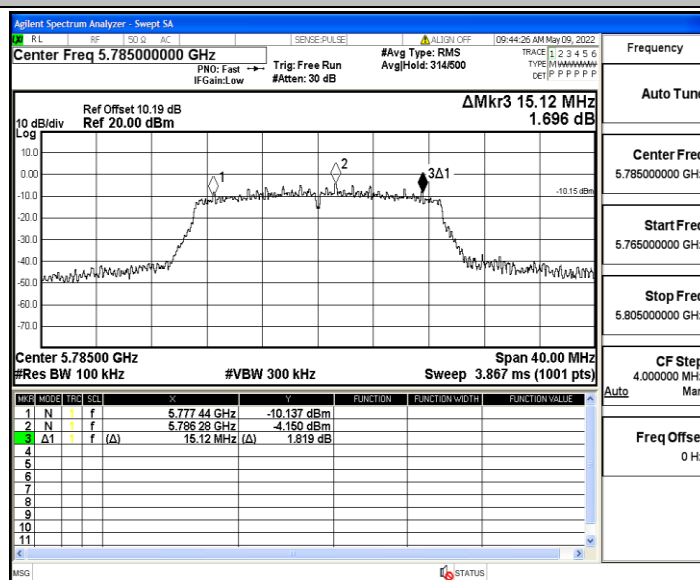
11AC20MIMO_Ant2_5745



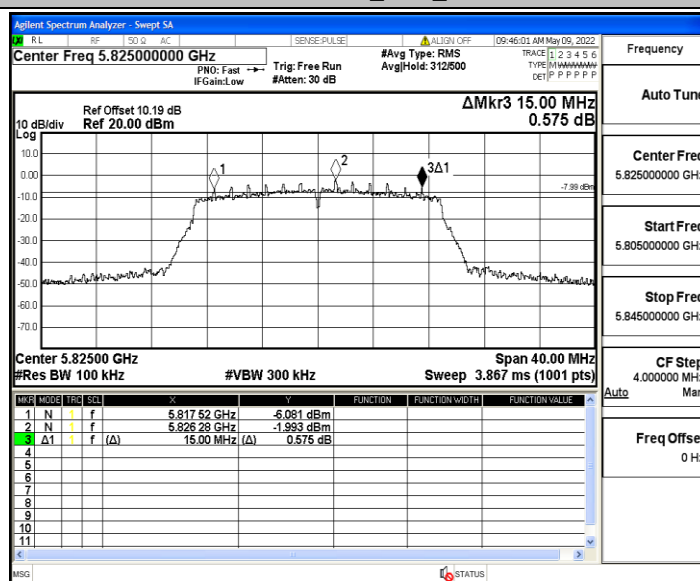
11AC20MIMO_Ant1_5785



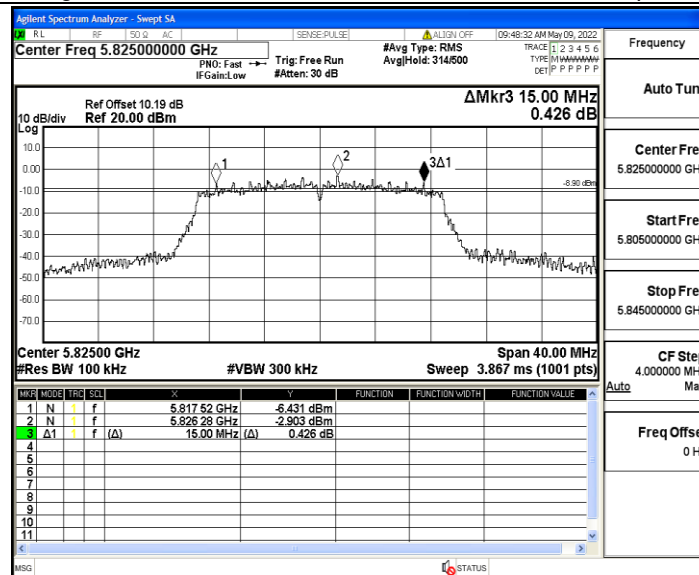
11AC20MIMO_Ant2_5785



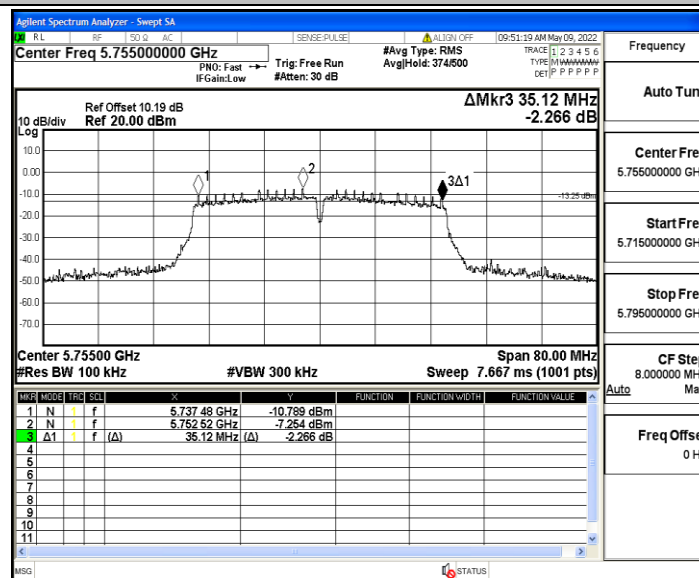
11AC20MIMO_Ant1_5825



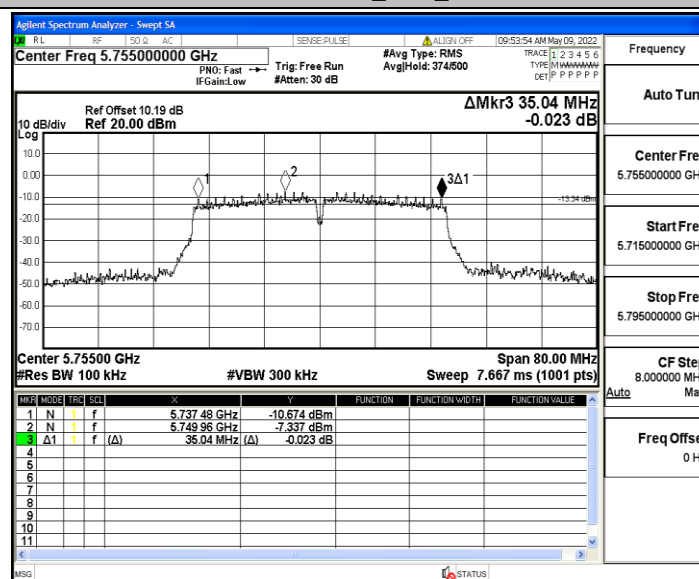
11AC20MIMO_Ant2_5825



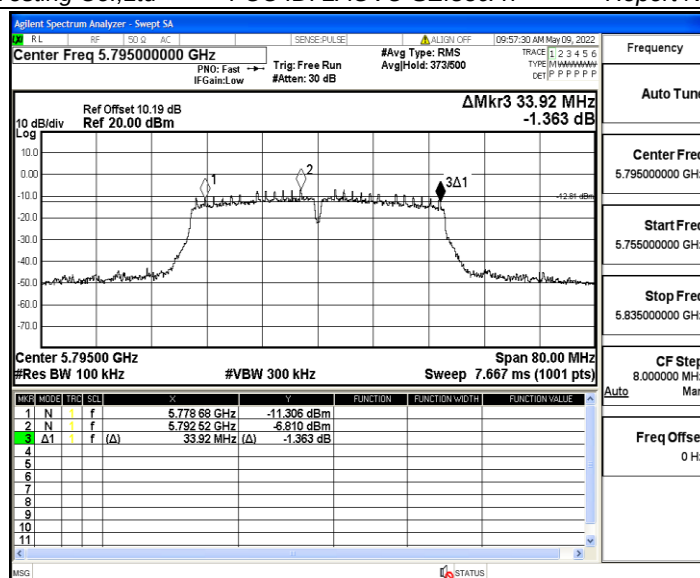
11AC40MIMO_Ant1_5755



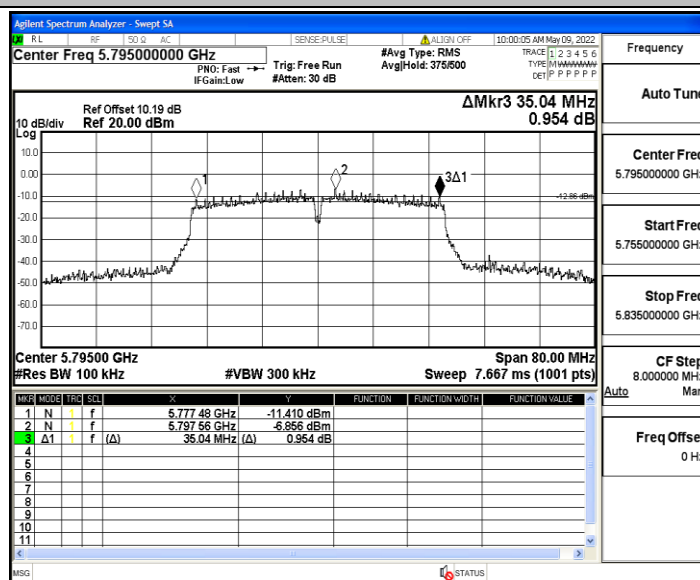
11AC40MIMO_Ant2_5755



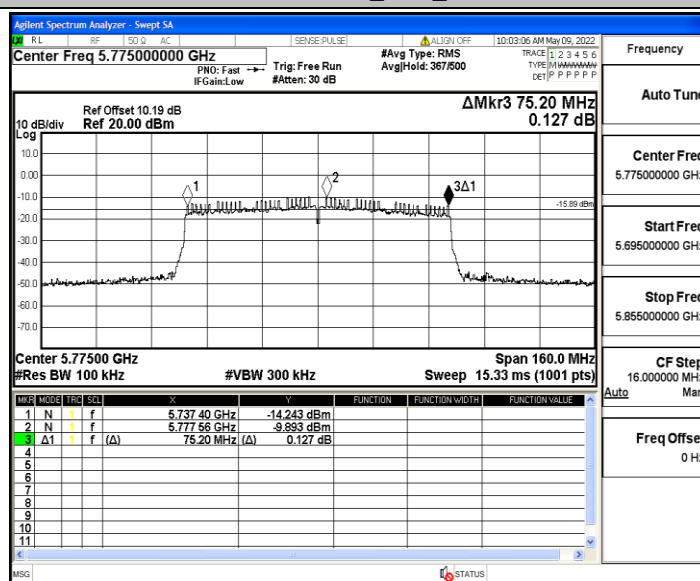
11AC40MIMO_Ant1_5795



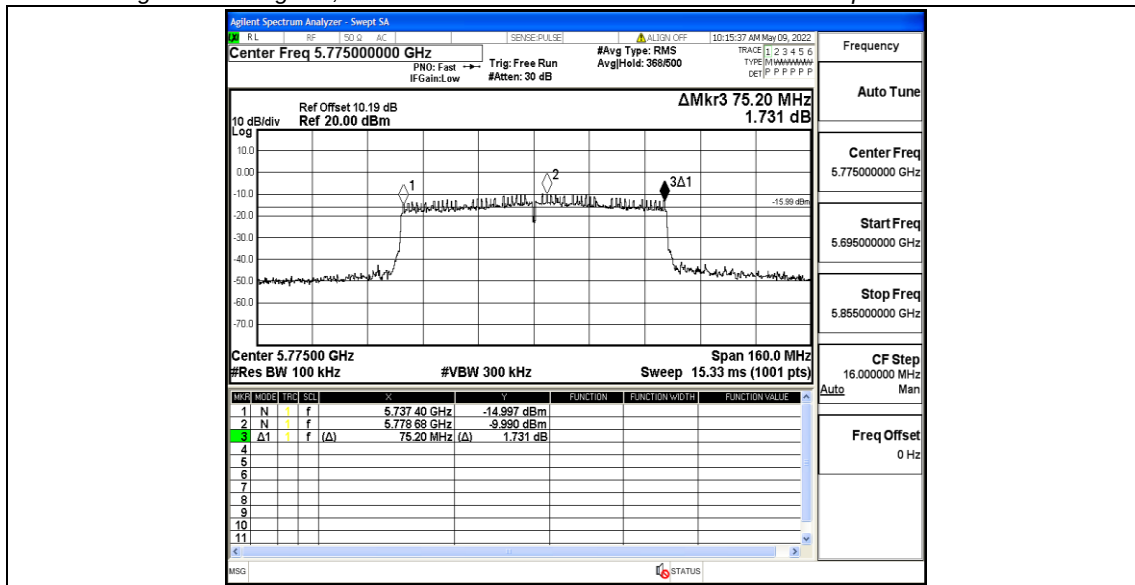
11AC40MIMO_Ant2_5795



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	6.12	≤30	PASS
	Ant2	5745	6.17	≤30	PASS
	Ant1	5785	6.20	≤30	PASS
	Ant2	5785	5.68	≤30	PASS
	Ant1	5825	8.02	≤30	PASS
	Ant2	5825	6.94	≤30	PASS
11N20MIMO	Ant1	5745	5.62	≤30	PASS
	Ant2	5745	5.94	≤30	PASS
	total	5745	8.79	≤29.19	PASS
	Ant1	5785	5.59	≤30	PASS
	Ant2	5785	5.79	≤30	PASS
	total	5785	8.70	≤29.19	PASS
	Ant1	5825	7.57	≤30	PASS
	Ant2	5825	6.96	≤30	PASS
	total	5825	10.29	≤29.19	PASS
11N40MIMO	Ant1	5755	5.79	≤30	PASS
	Ant2	5755	5.70	≤30	PASS
	total	5755	8.76	≤29.19	PASS
	Ant1	5795	6.11	≤30	PASS
	Ant2	5795	5.86	≤30	PASS
	total	5795	9.00	≤29.19	PASS
11AC20MIMO	Ant1	5745	5.56	≤30	PASS
	Ant2	5745	5.97	≤30	PASS
	total	5745	8.78	≤29.19	PASS
	Ant1	5785	5.55	≤30	PASS
	Ant2	5785	5.83	≤30	PASS
	total	5785	8.70	≤29.19	PASS
	Ant1	5825	7.47	≤30	PASS
	Ant2	5825	6.96	≤30	PASS
	total	5825	10.23	≤29.19	PASS
11AC40MIMO	Ant1	5755	5.71	≤30	PASS
	Ant2	5755	5.78	≤30	PASS
	total	5755	8.76	≤29.19	PASS
	Ant1	5795	6.06	≤30	PASS
	Ant2	5795	6.04	≤30	PASS
	total	5795	9.06	≤29.19	PASS
11AC80MIMO	Ant1	5775	5.67	≤30	PASS
	Ant2	5775	5.63	≤30	PASS
	total	5775	8.66	≤29.19	PASS

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

Appendix C: Maximum power spectral density

Test Result

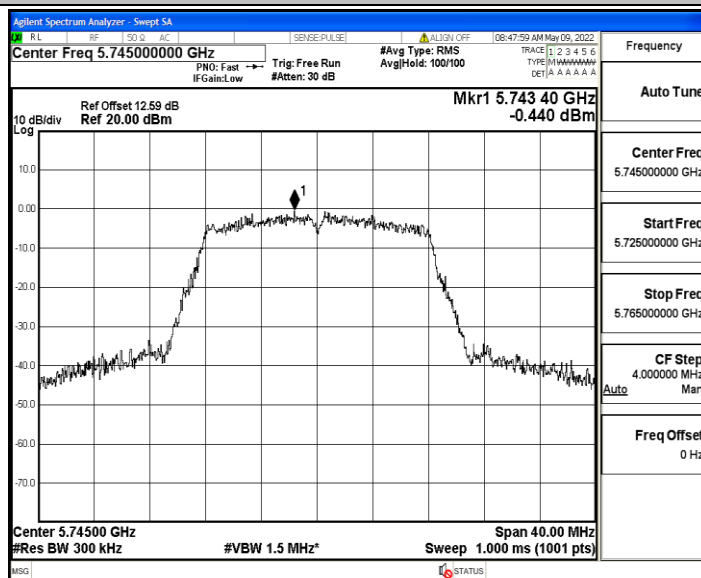
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-0.44	≤30	PASS
	Ant2	5745	0.01	≤30	PASS
	Ant1	5785	-0.38	≤30	PASS
	Ant2	5785	-0.4	≤30	PASS
	Ant1	5825	1.1	≤30	PASS
	Ant2	5825	-0.09	≤30	PASS
11N20MIMO	Ant1	5745	-1.2	≤30	PASS
	Ant2	5745	-0.23	≤30	PASS
	total	5745	2.32	≤29.19	PASS
	Ant1	5785	-0.92	≤30	PASS
	Ant2	5785	-0.49	≤30	PASS
	total	5785	2.31	≤29.19	PASS
	Ant1	5825	0.58	≤30	PASS
	Ant2	5825	0.15	≤30	PASS
	total	5825	3.38	≤29.19	PASS
11N40MIMO	Ant1	5755	-3.93	≤30	PASS
	Ant2	5755	-2.98	≤30	PASS
	total	5755	-0.42	≤29.19	PASS
	Ant1	5795	-3.39	≤30	PASS
	Ant2	5795	-3.05	≤30	PASS
	total	5795	-0.21	≤29.19	PASS
11AC20MIMO	Ant1	5745	-0.98	≤30	PASS
	Ant2	5745	-0.12	≤30	PASS
	total	5745	2.48	≤29.19	PASS
	Ant1	5785	-1.08	≤30	PASS
	Ant2	5785	-0.64	≤30	PASS
	total	5785	2.16	≤29.19	PASS
	Ant1	5825	0.89	≤30	PASS
	Ant2	5825	1.12	≤30	PASS
	total	5825	4.02	≤29.19	PASS
11AC40MIMO	Ant1	5755	-3.88	≤30	PASS
	Ant2	5755	-3.15	≤30	PASS
	total	5755	-0.49	≤29.19	PASS
	Ant1	5795	-4.14	≤30	PASS
	Ant2	5795	-2.66	≤30	PASS
	total	5795	-0.33	≤29.19	PASS
11AC80MIMO	Ant1	5775	-6.74	≤30	PASS
	Ant2	5775	-6.49	≤30	PASS
	total	5775	-3.60	≤29.19	PASS

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

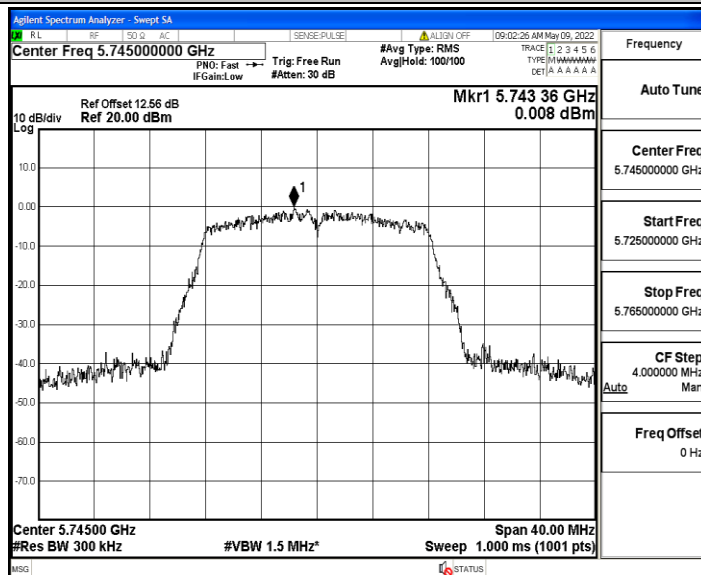
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

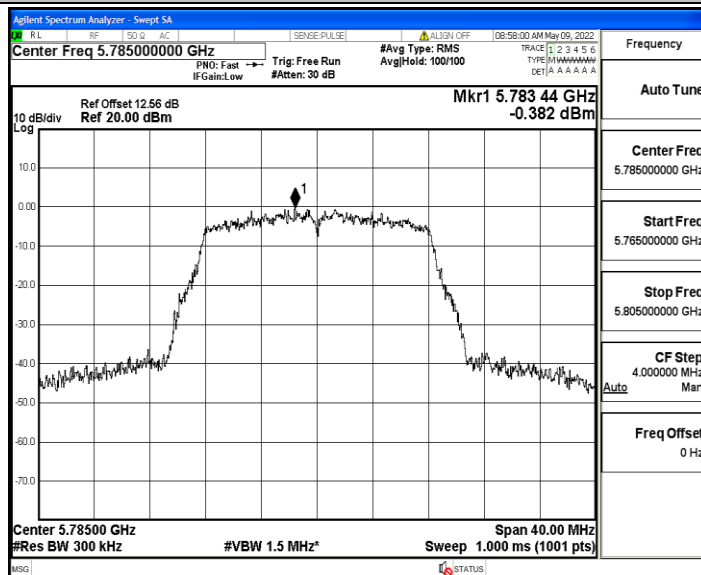
11A_Ant1_5745



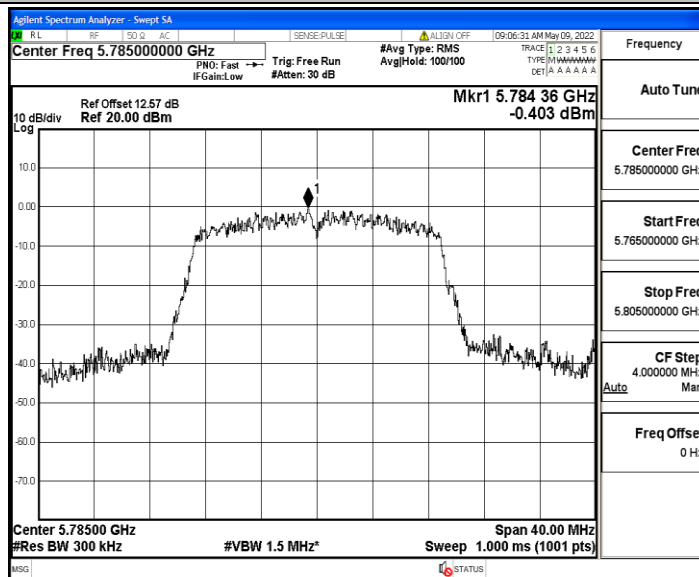
11A_Ant2_5745



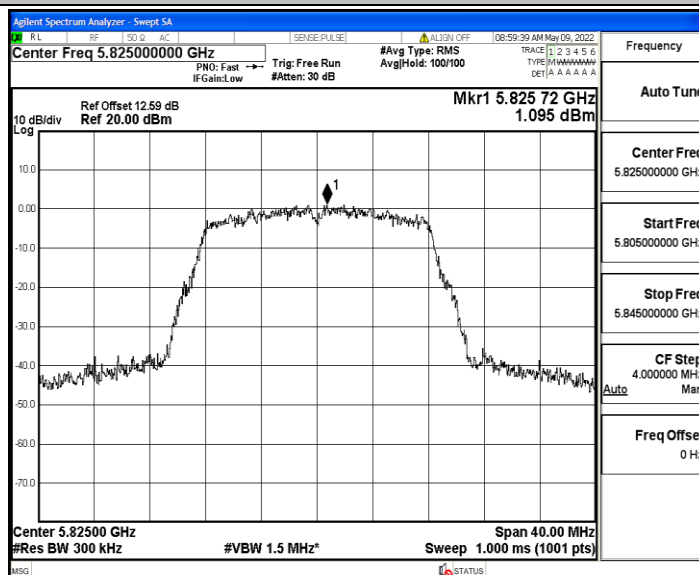
11A_Ant1_5785



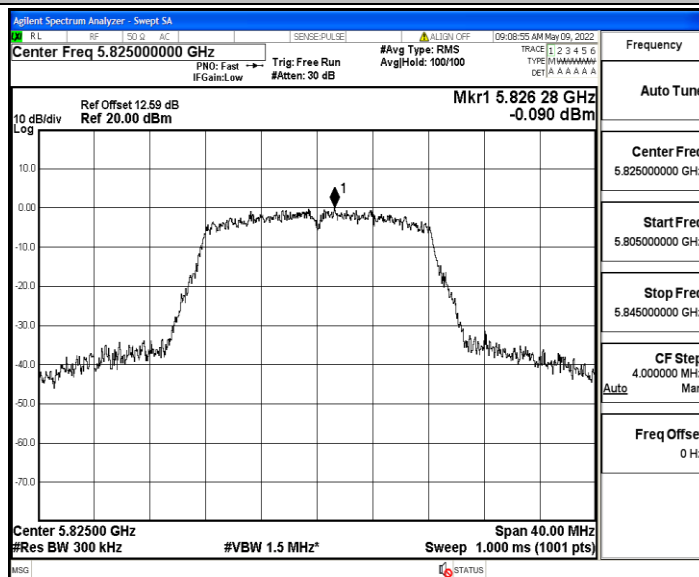
11A_Ant2_5785



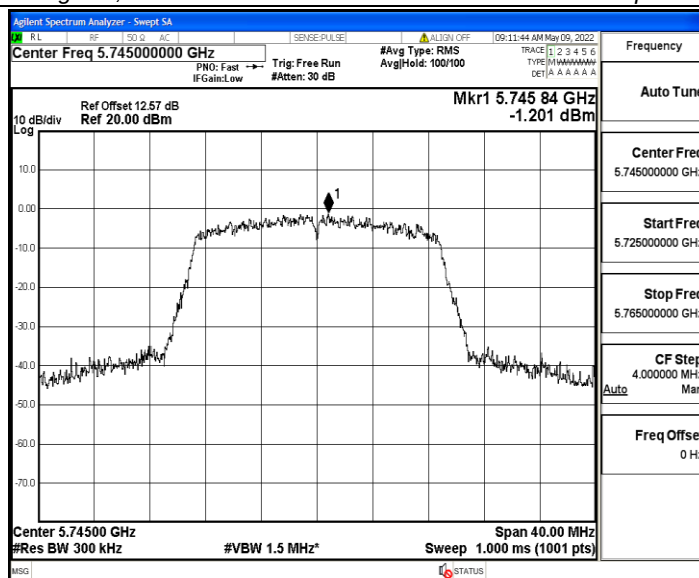
11A_Ant1_5825



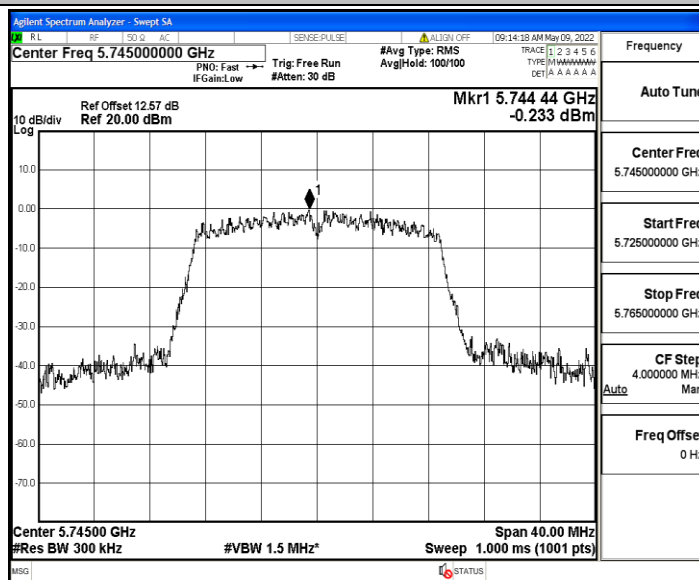
11A_Ant2_5825



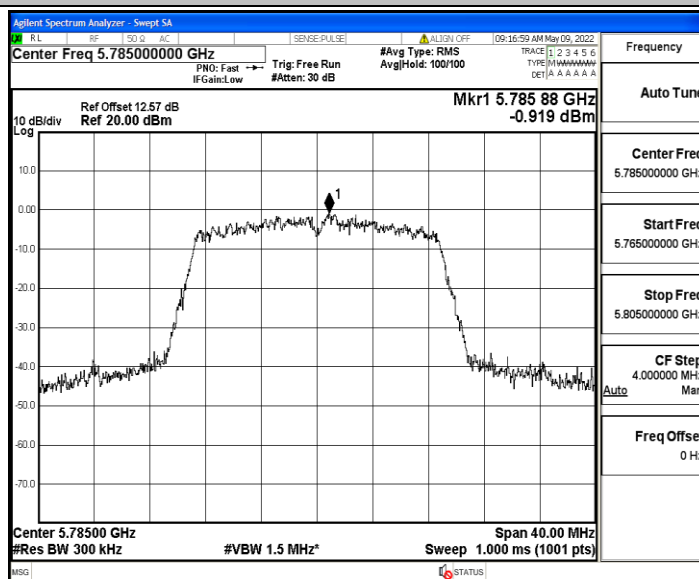
11N20MIMO_Ant1_5745



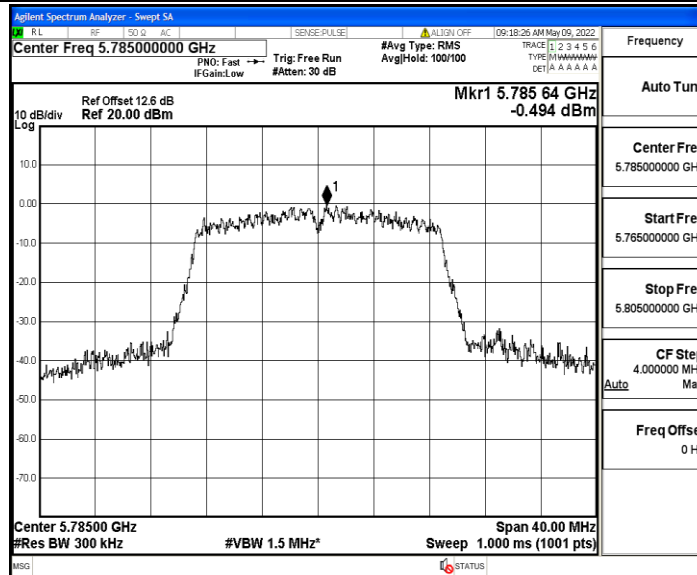
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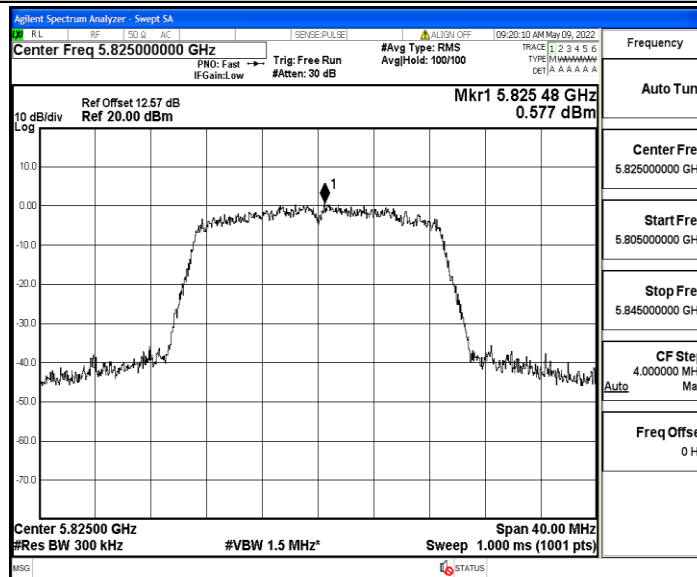
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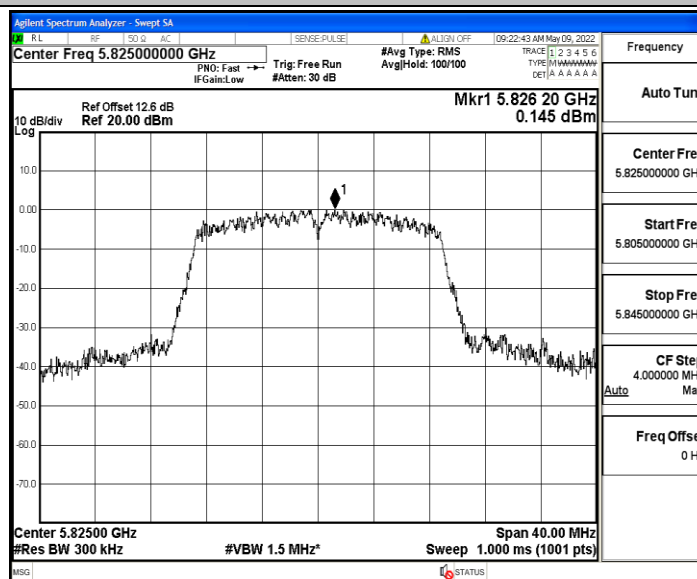
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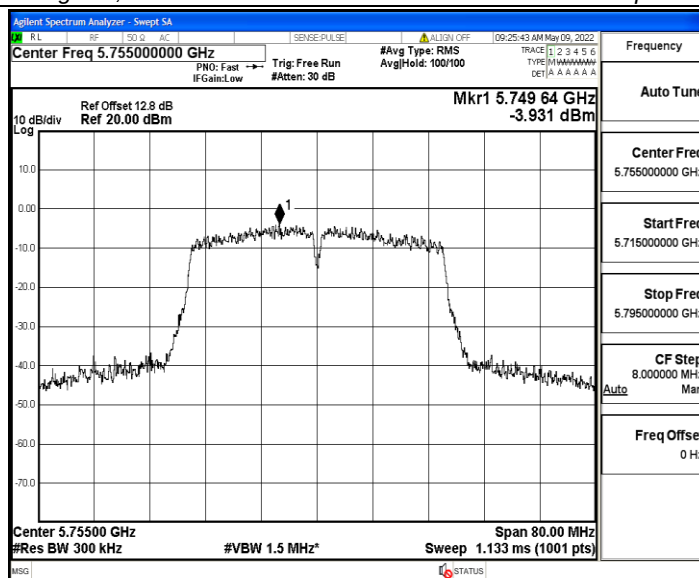
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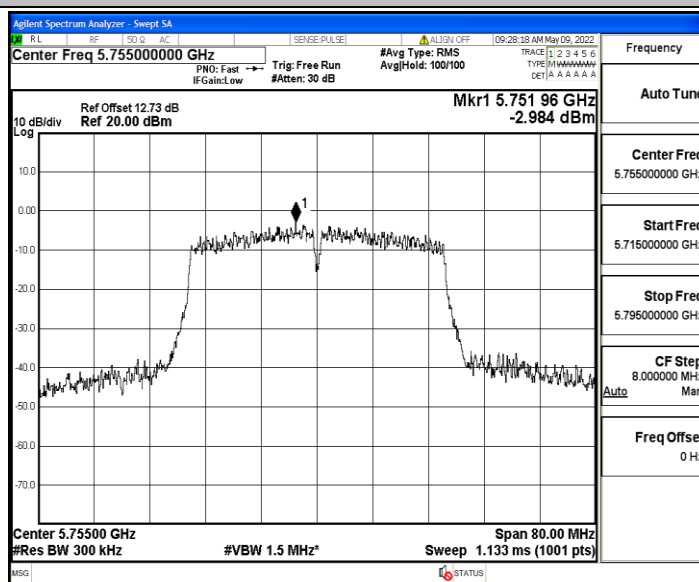
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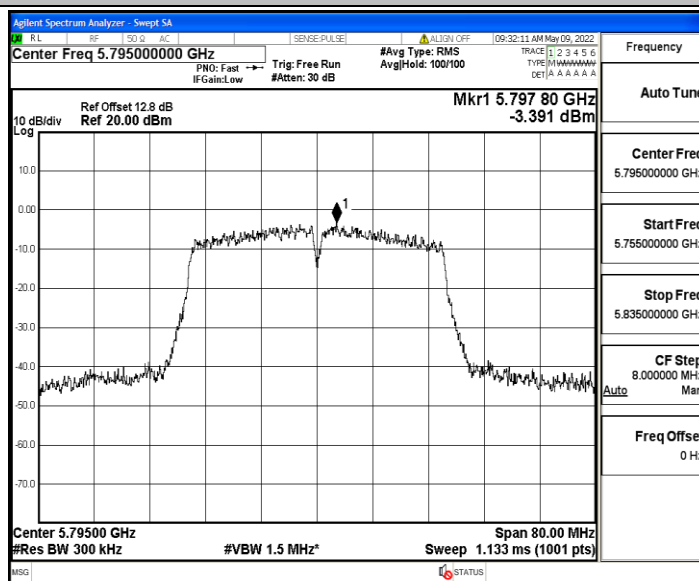
11N40MIMO_Ant1_5755



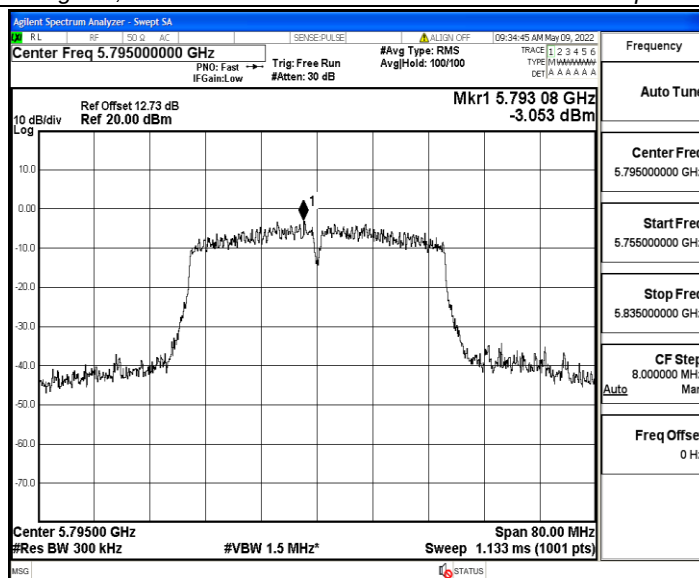
11N40MIMO_Ant2_5755



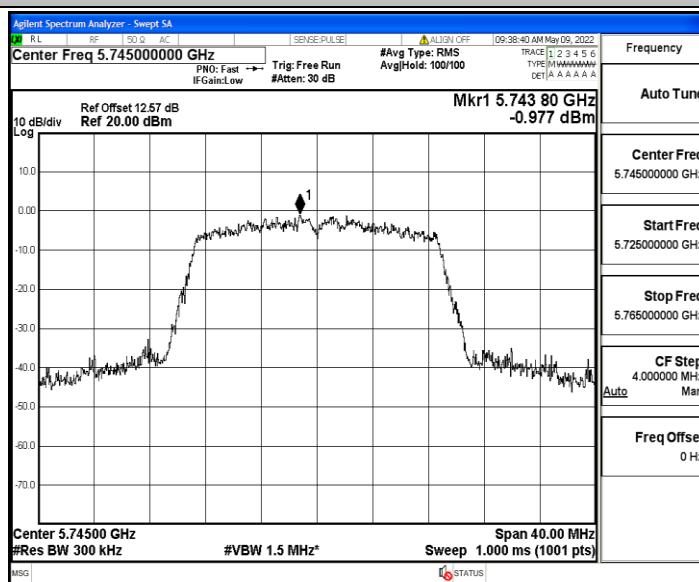
11N40MIMO_Ant1_5795



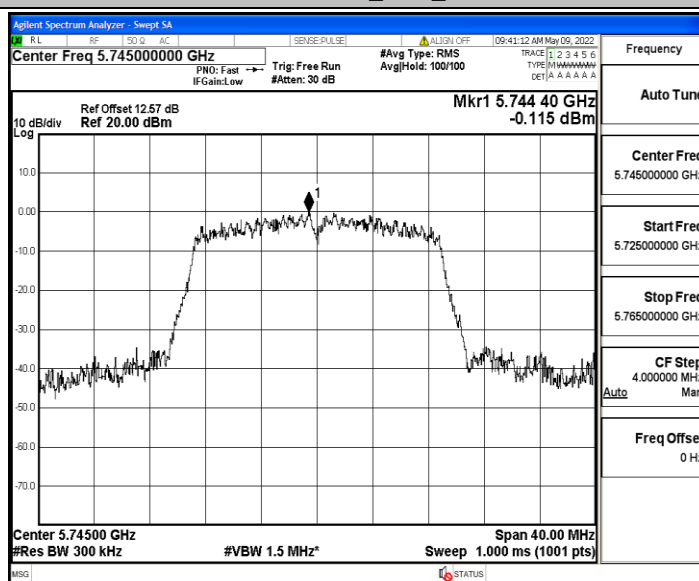
11N40MIMO_Ant2_5795



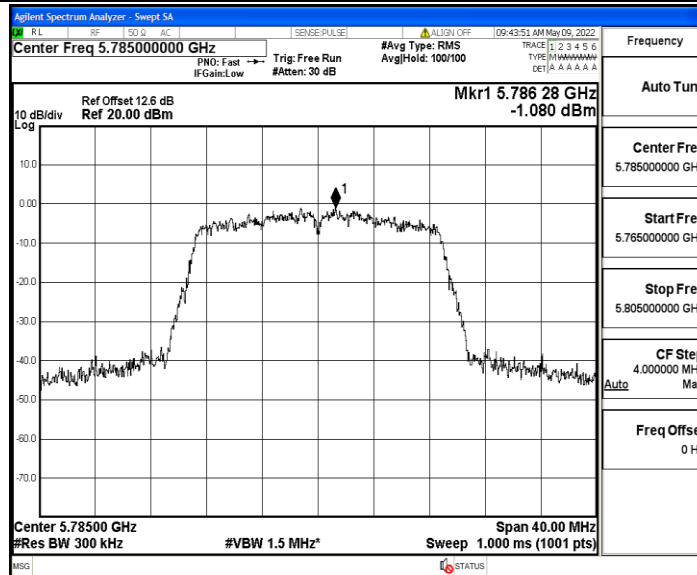
11AC20MIMO_Ant1_5745



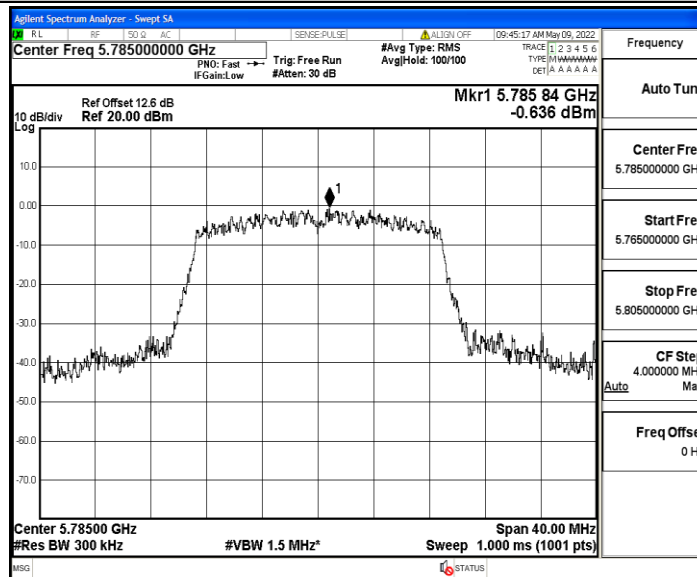
11AC20MIMO_Ant2_5745



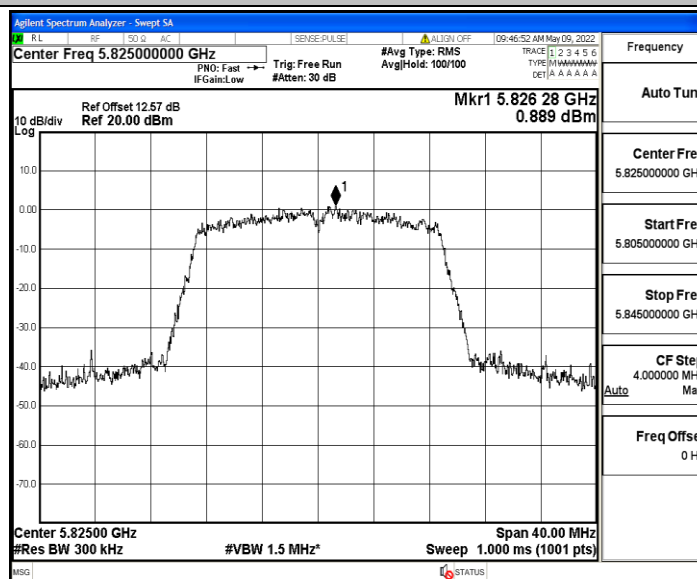
11AC20MIMO_Ant1_5785



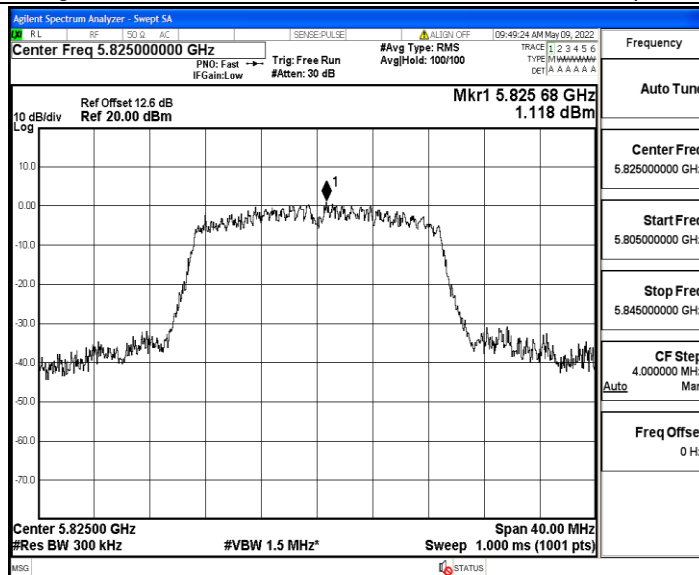
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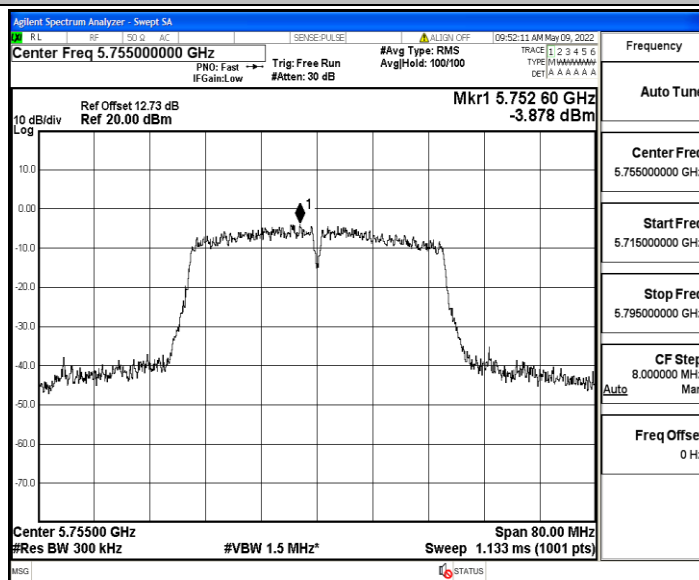
11AC20MIMO_Ant1_5825



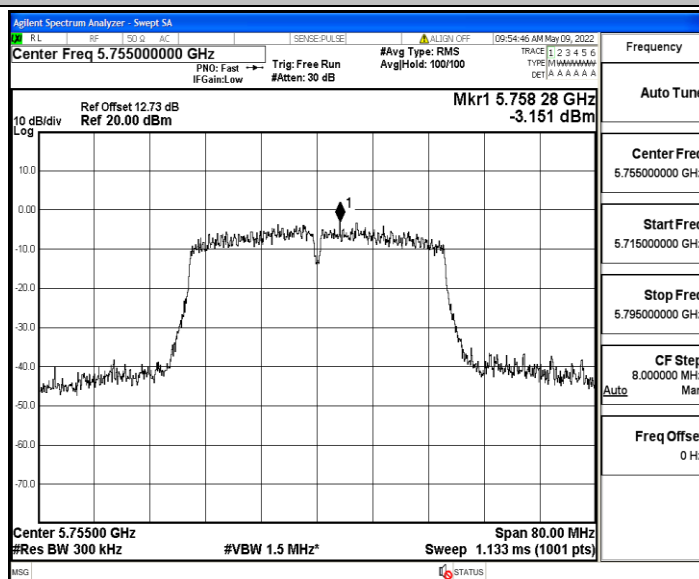
11AC20MIMO_Ant2_5825



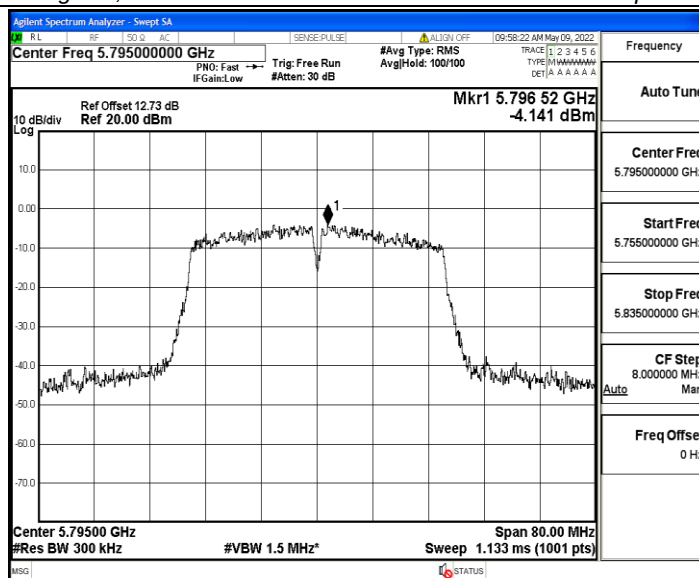
11AC40MIMO_Ant1_5755



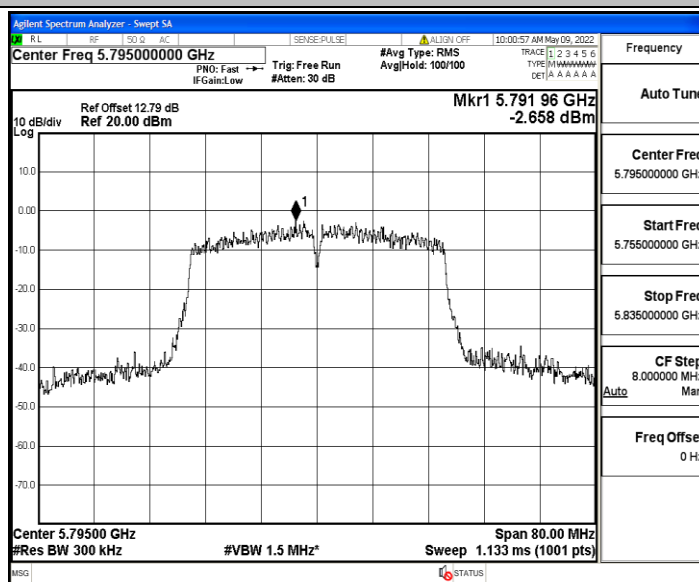
11AC40MIMO_Ant2_5755



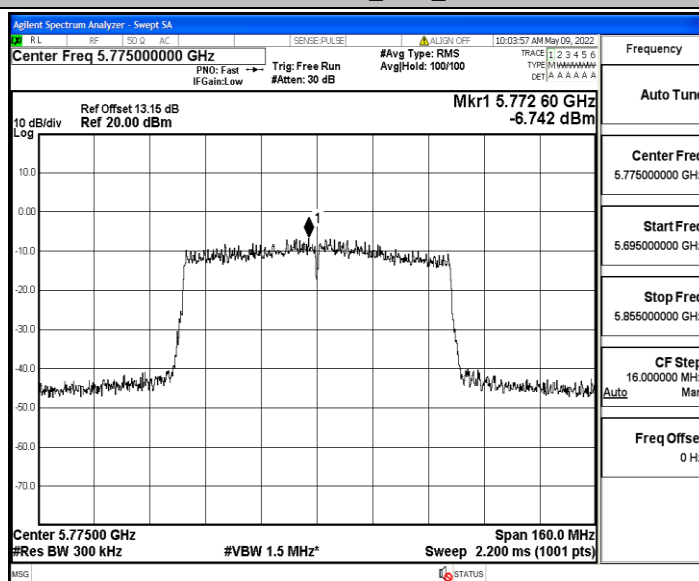
11AC40MIMO_Ant1_5795



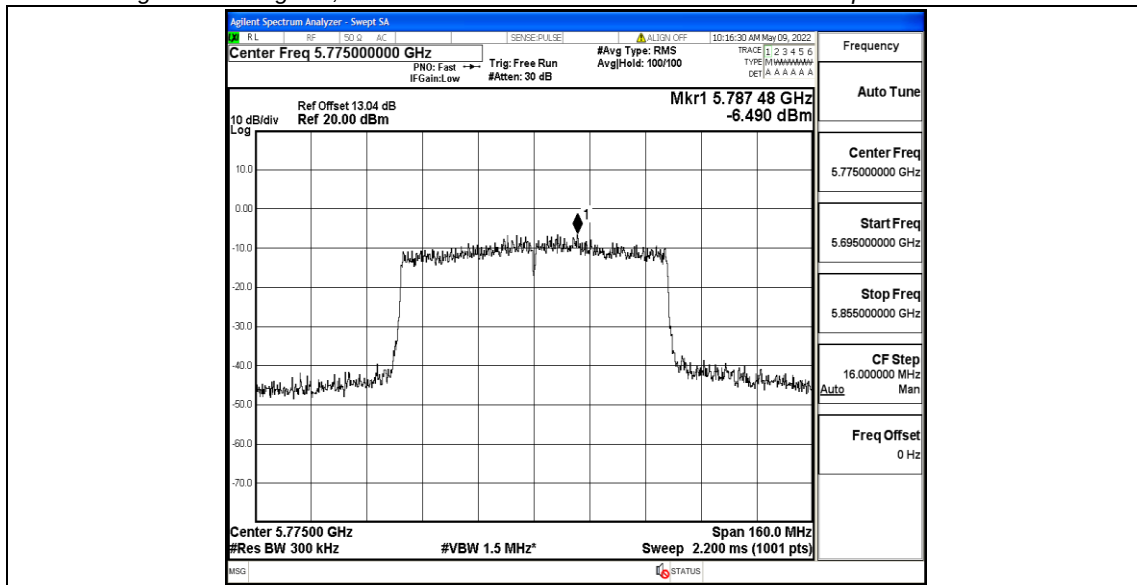
11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix D: Band edge measurements

Test Result

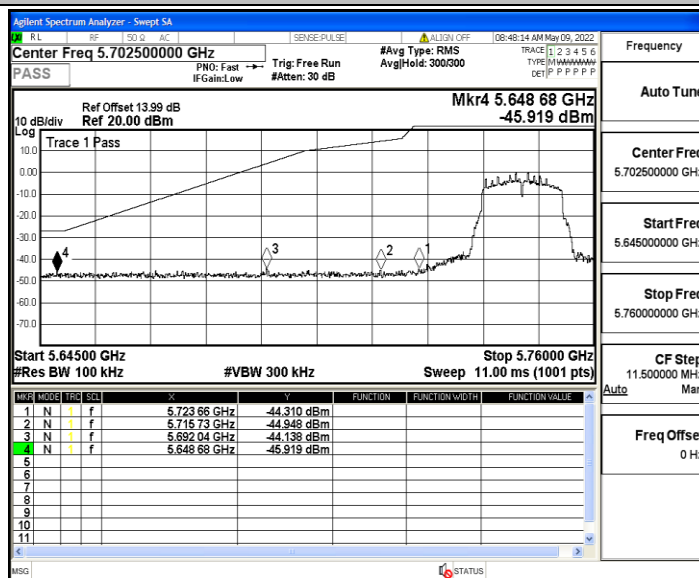
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-44.14	≤4.11	PASS
				5700~5720	-44.95	≤14.40	PASS
				5720~5725	-44.31	≤23.94	PASS
				5760~5650	-45.92	≤-27	PASS
	Ant2	Low	5745	5650~5700	-44.23	≤1.55	PASS
				5700~5720	-44.65	≤10.41	PASS
				5720~5725	-45.56	≤25.78	PASS
				5760~5650	-45.94	≤-27	PASS
	Ant1	High	5825	5850~5855	-44.9	≤18.87	PASS
				5855~5875	-44.82	≤11.87	PASS
				5875~5925	-43.72	≤1.62	PASS
				5925~5935	-44.02	≤-27	PASS
	Ant2	High	5825	5850~5855	-44.96	≤23.49	PASS
				5855~5875	-44.24	≤10.06	PASS
				5875~5925	-44.1	≤-7.87	PASS
				5925~5935	-44.84	≤-27	PASS
11N20MI MO	Ant1	Low	5745	5650~5700	-45.21	≤5.38	PASS
				5700~5720	-45.33	≤14.24	PASS
				5720~5725	-44.44	≤24.73	PASS
				5760~5650	-45.74	≤-27	PASS
	Ant2	Low	5745	5650~5700	-44.97	≤-1.00	PASS
				5700~5720	-44.99	≤13.31	PASS
				5720~5725	-43.06	≤26.83	PASS
				5760~5650	-46.12	≤-27	PASS
	Ant1	High	5825	5850~5855	-45.62	≤24.41	PASS
				5855~5875	-44.56	≤12.63	PASS
				5875~5925	-44.78	≤5.31	PASS
				5925~5935	-45.12	≤-27	PASS
	Ant2	High	5825	5850~5855	-44.59	≤19.49	PASS
				5855~5875	-44.54	≤12.86	PASS
				5875~5925	-44.62	≤-13.67	PASS
				5925~5935	-45.15	≤-27	PASS
11N40MI MO	Ant1	Low	5755	5650~5700	-45.37	≤-16.21	PASS
				5700~5720	-42.64	≤14.94	PASS
				5720~5725	-41.37	≤21.58	PASS
				5780~5650	-46.88	≤-27	PASS
	Ant2	Low	5755	5650~5700	-44.84	≤-2.53	PASS
				5700~5720	-41.88	≤14.75	PASS
				5720~5725	-40.51	≤17.89	PASS

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
	Ant1	High	5795	5780~5650	-45.54	≤-27	PASS
				5850~5855	-44.52	≤19.04	PASS
				5855~5875	-44.85	≤12.72	PASS
				5875~5925	-44.61	≤-23.63	PASS
	Ant2	High	5795	5925~5935	-45.49	≤-27	PASS
				5850~5855	-44.75	≤26.57	PASS
				5855~5875	-44.68	≤11.70	PASS
				5875~5925	-44.78	≤-19.60	PASS
11AC20M IMO	Ant1	Low	5745	5925~5935	-45.28	≤-27	PASS
				5650~5700	-44.37	≤1.38	PASS
				5700~5720	-45.12	≤10.06	PASS
				5720~5725	-44.22	≤24.73	PASS
	Ant2	Low	5745	5760~5650	-45	≤-27	PASS
				5650~5700	-45.17	≤7.00	PASS
				5700~5720	-45.12	≤13.79	PASS
				5720~5725	-41.83	≤24.73	PASS
	Ant1	High	5825	5760~5650	-46.15	≤-27	PASS
				5850~5855	-44.73	≤21.33	PASS
				5855~5875	-44.45	≤11.65	PASS
				5875~5925	-43.93	≤-16.97	PASS
	Ant2	High	5825	5925~5935	-45.54	≤-27	PASS
				5850~5855	-45.16	≤22.26	PASS
				5855~5875	-43.53	≤12.18	PASS
				5875~5925	-44.64	≤-7.67	PASS
11AC40M IMO	Ant1	Low	5755	5925~5935	-44.4	≤-27	PASS
				5650~5700	-44.4	≤-17.81	PASS
				5700~5720	-40.76	≤15.54	PASS
				5720~5725	-41.92	≤20.05	PASS
	Ant2	Low	5755	5780~5650	-46.45	≤-27	PASS
				5650~5700	-44.94	≤-2.33	PASS
				5700~5720	-39.99	≤15.54	PASS
				5720~5725	-40.26	≤26.20	PASS
	Ant1	High	5795	5780~5650	-46.17	≤-27	PASS
				5850~5855	-45.64	≤26.19	PASS
				5855~5875	-44.05	≤13.00	PASS
				5875~5925	-43.74	≤-2.87	PASS
	Ant2	High	5795	5925~5935	-44.95	≤-27	PASS
				5850~5855	-45.48	≤24.69	PASS
				5855~5875	-44.76	≤13.18	PASS
				5875~5925	-44.64	≤-22.16	PASS
11AC80M IMO	Ant1	Low	5775	5925~5935	-44.98	≤-27	PASS
				5650~5700	-44.64	≤4.97	PASS
				5700~5720	-42.57	≤13.22	PASS
				5720~5725	-42.66	≤20.95	PASS

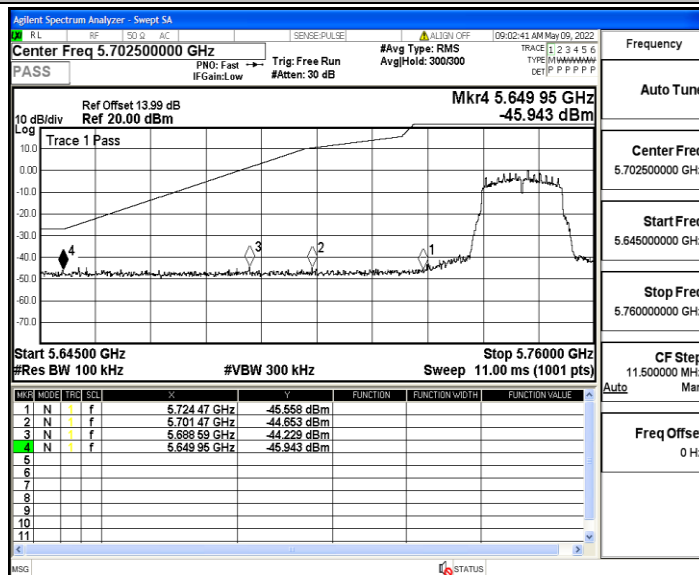
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
		High	5775	5800~5650	-46.01	≤-27	PASS
				5850~5855	-45.34	≤25.50	PASS
				5855~5875	-44.82	≤10.59	PASS
				5875~5925	-44.92	≤-11.08	PASS
				5925~5935	-45.49	≤-27	PASS
	Ant2	Low	5775	5650~5700	-44.23	≤8.18	PASS
				5700~5720	-43.36	≤13.91	PASS
				5720~5725	-42.56	≤19.18	PASS
				5800~5650	-46.62	≤-27	PASS
		High	5775	5850~5855	-42.74	≤20.43	PASS
				5855~5875	-42.26	≤12.09	PASS
				5875~5925	-44.62	≤3.98	PASS
				5925~5935	-45.47	≤-27	PASS

Test Graphs

11A_Ant1_Low_5745



11A_Ant2_Low_5745



11A_Ant1_High_5825

