

RF Test Data for RLAN(5. 8G) (Conducted Measurement)

Product Name: Wifi Pineapple Pager

Trade Mark: /

Test Model: Mk1

FCC ID: 2A52Y-MK1

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A2: Occupied channel bandwidth

Test Result

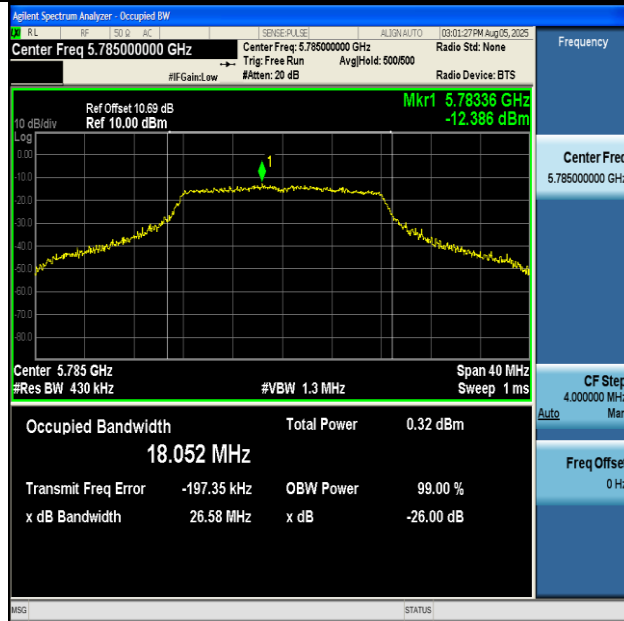
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	18.234	5735.6924	5753.9264	---	---
11A	Ant2	5745	17.496	5736.1464	5753.6424	---	---
11A	Ant1	5785	18.052	5775.7767	5793.8287	---	---
11A	Ant2	5785	17.374	5776.2290	5793.6030	---	---
11A	Ant2	5825	17.248	5816.4144	5833.6624	---	---
11A	Ant1	5825	17.904	5815.9716	5833.8756	---	---
11N20MIMO	Ant1	5745	19.255	5735.2202	5754.4752	---	---
11N20MIMO	Ant2	5745	18.420	5735.6916	5754.1116	---	---
11N20MIMO	Ant1	5785	19.239	5775.2545	5794.4935	---	---
11N20MIMO	Ant2	5785	18.300	5775.7808	5794.0808	---	---
11N20MIMO	Ant1	5825	18.385	5815.8262	5834.2112	---	---
11N20MIMO	Ant2	5825	18.232	5815.9113	5834.1433	---	---
11N40MIMO	Ant1	5755	36.133	5737.0131	5773.1461	---	---
11N40MIMO	Ant2	5755	36.157	5736.9574	5773.1144	---	---
11N40MIMO	Ant1	5795	36.076	5776.9713	5813.0473	---	---
11N40MIMO	Ant2	5795	36.131	5776.9267	5813.0577	---	---
11AC20MIMO	Ant1	5745	18.422	5735.7455	5754.1675	---	---
11AC20MIMO	Ant2	5745	18.407	5735.7312	5754.1382	---	---
11AC20MIMO	Ant1	5785	18.386	5775.7924	5794.1784	---	---
11AC20MIMO	Ant2	5785	18.374	5775.8025	5794.1765	---	---
11AC20MIMO	Ant1	5825	18.466	5815.7707	5834.2367	---	---
11AC20MIMO	Ant2	5825	18.427	5815.8306	5834.2576	---	---

11AC40MIMO	Ant1	5755	36.604	5736.7566	5773.3606	---	---
11AC40MIMO	Ant2	5755	36.520	5736.8109	5773.3309	---	---
11AC40MIMO	Ant1	5795	36.602	5776.7149	5813.3169	---	---
11AC40MIMO	Ant2	5795	36.502	5776.7804	5813.2824	---	---
11AC80MIMO	Ant1	5775	76.717	5736.8428	5813.5598	---	---
11AC80MIMO	Ant2	5775	76.395	5736.9411	5813.3361	---	---
11AX20MIMO	Ant1	5745	19.286	5735.3304	5754.6164	---	---
11AX20MIMO	Ant2	5745	19.334	5735.3080	5754.6420	---	---
11AX20MIMO	Ant1	5785	19.255	5775.3493	5794.6043	---	---
11AX20MIMO	Ant2	5785	19.274	5775.3377	5794.6117	---	---
11AX20MIMO	Ant1	5825	19.279	5815.3884	5834.6674	---	---
11AX20MIMO	Ant2	5825	19.284	5815.4055	5834.6895	---	---
11AX40MIMO	Ant1	5755	38.010	5736.0970	5774.1070	---	---
11AX40MIMO	Ant2	5755	38.033	5736.0220	5774.0550	---	---
11AX40MIMO	Ant1	5795	37.953	5776.0918	5814.0448	---	---
11AX40MIMO	Ant2	5795	38.001	5776.0331	5814.0341	---	---
11AX80MIMO	Ant1	5775	77.720	5736.2139	5813.9339	---	---
11AX80MIMO	Ant2	5775	77.689	5736.2112	5813.9002	---	---

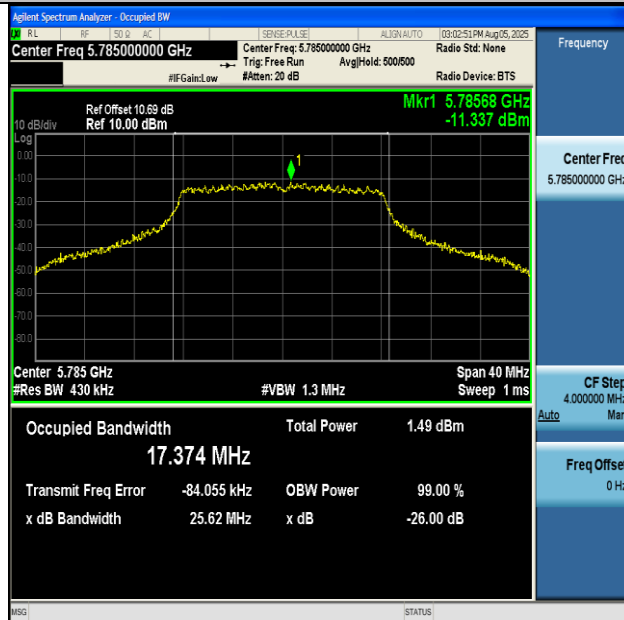
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





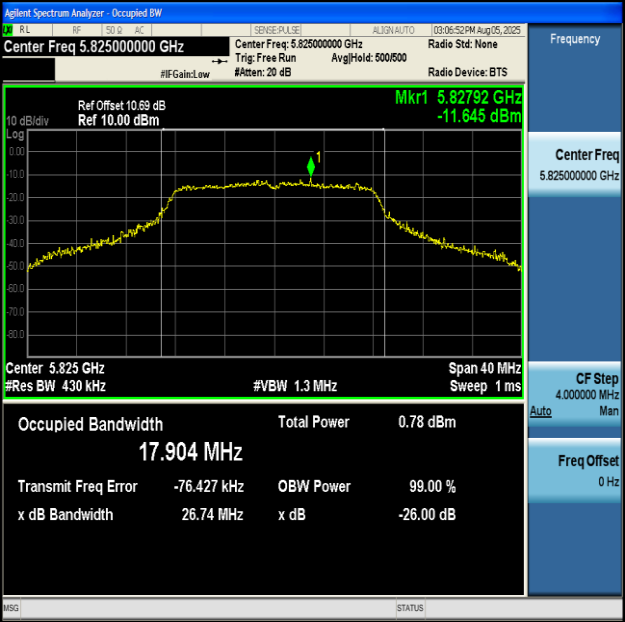
11A-Ant1-5785



11A-Ant2-5785



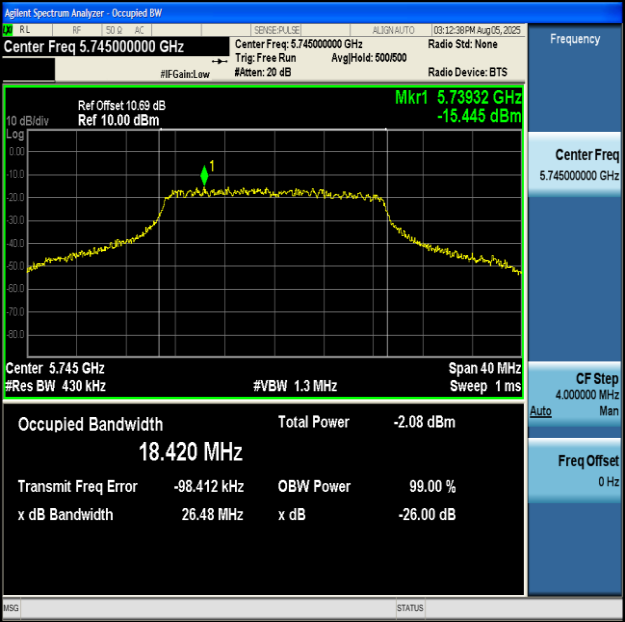
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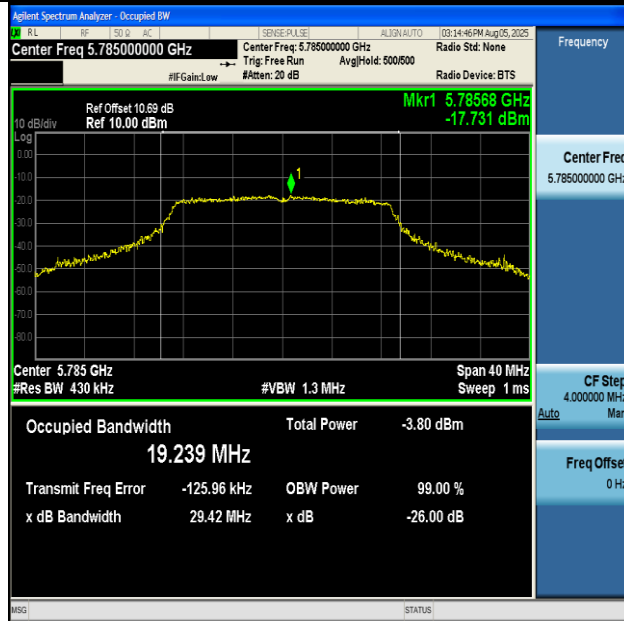
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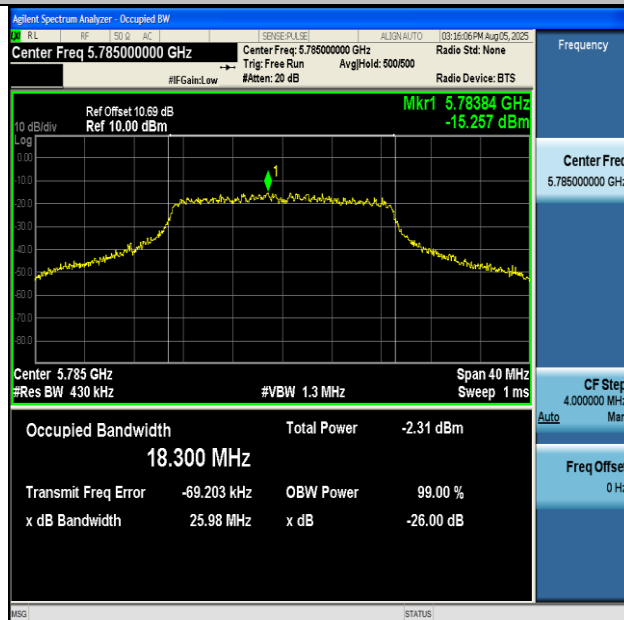
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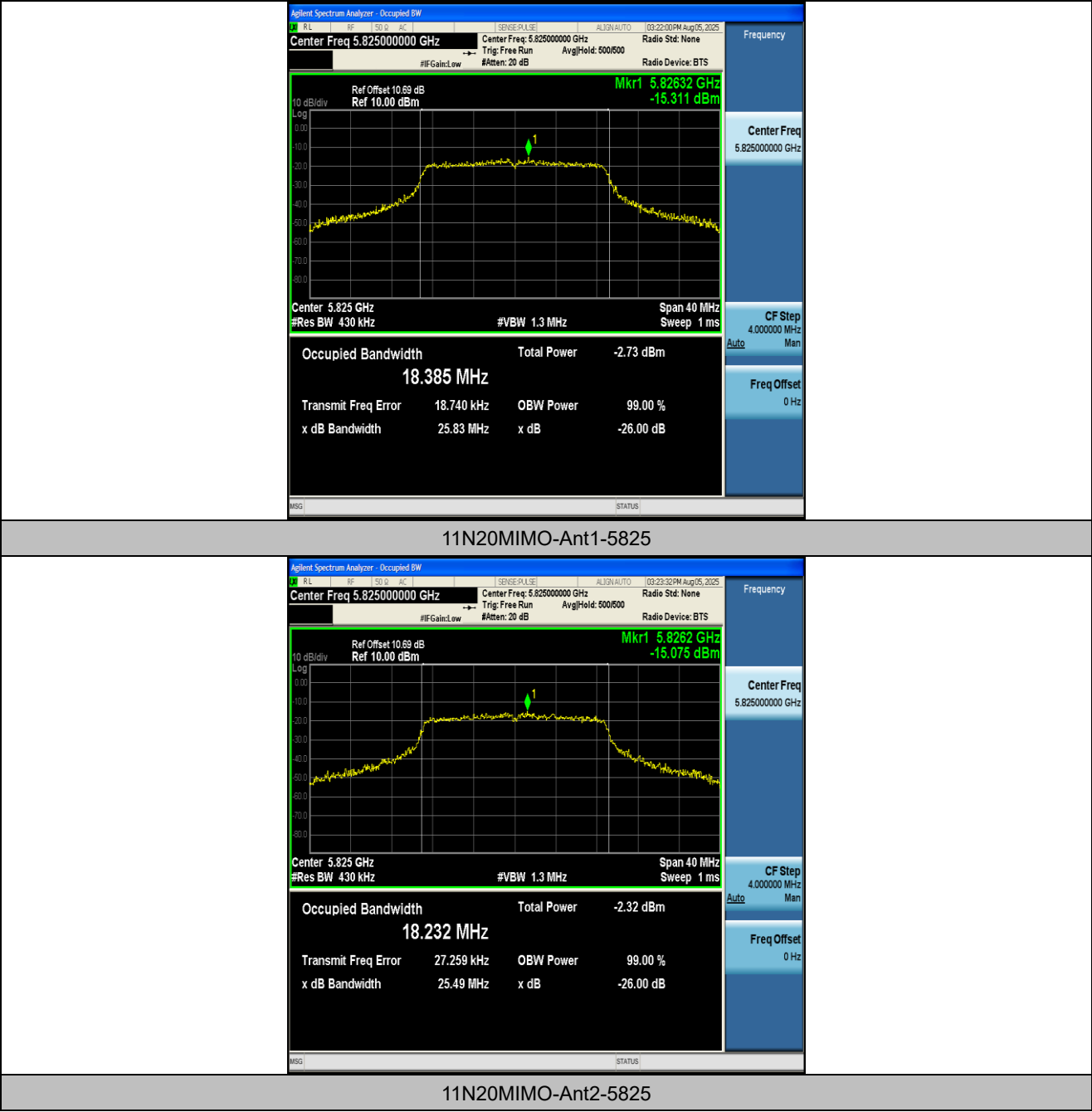
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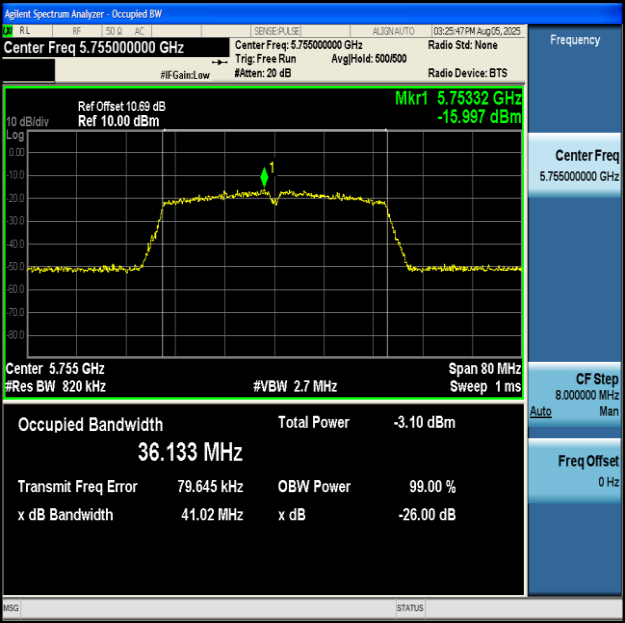


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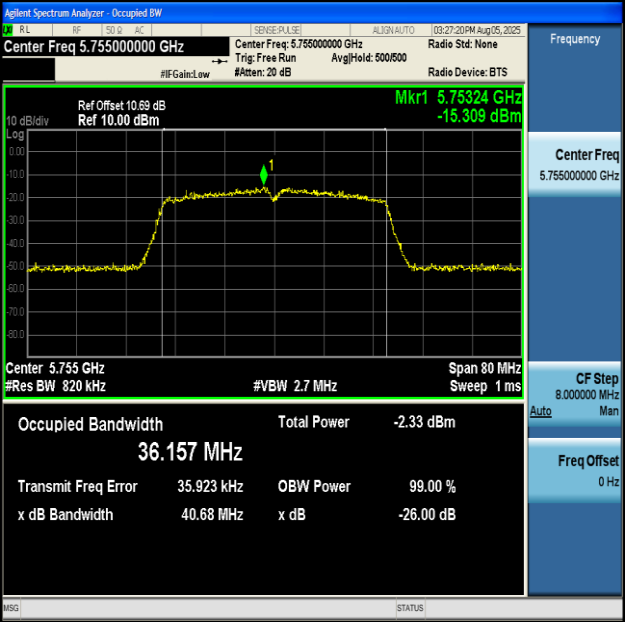


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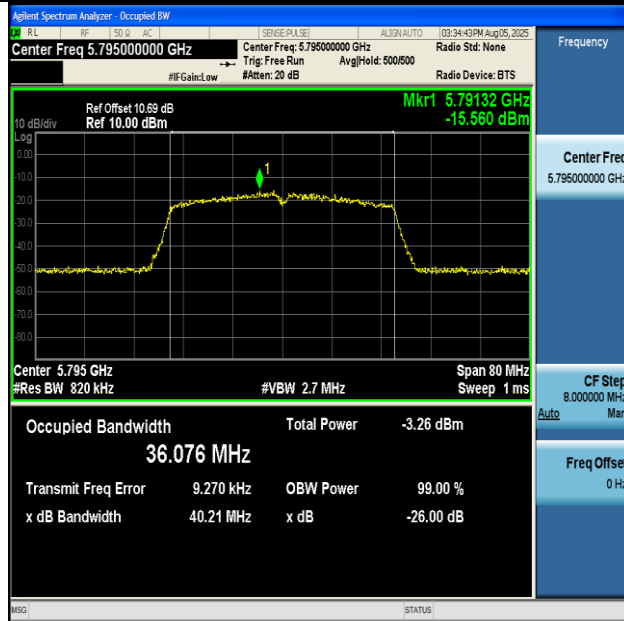




11N40MIMO-Ant1-5755



11N40MIMO-Ant2-5755



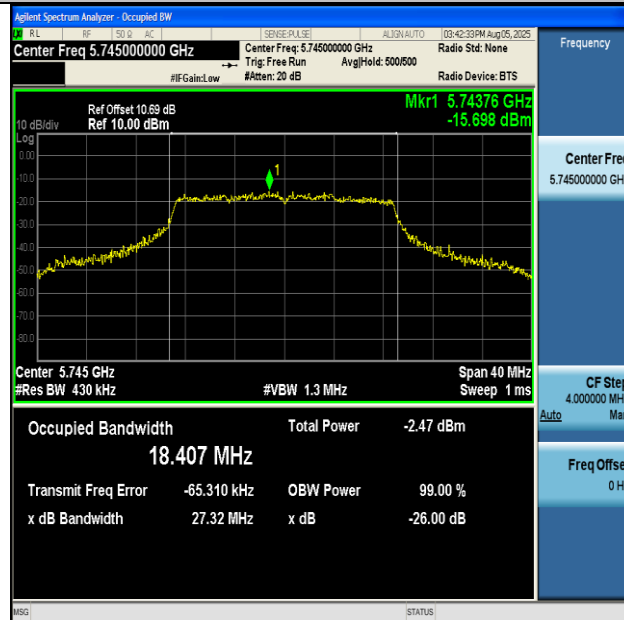
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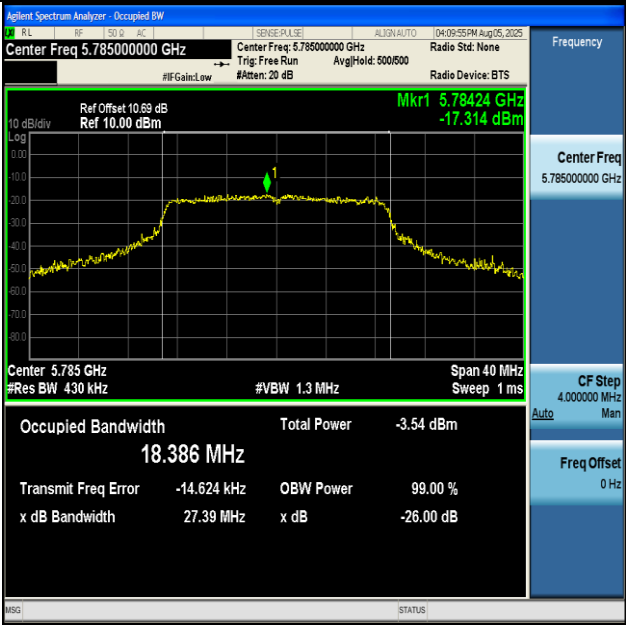
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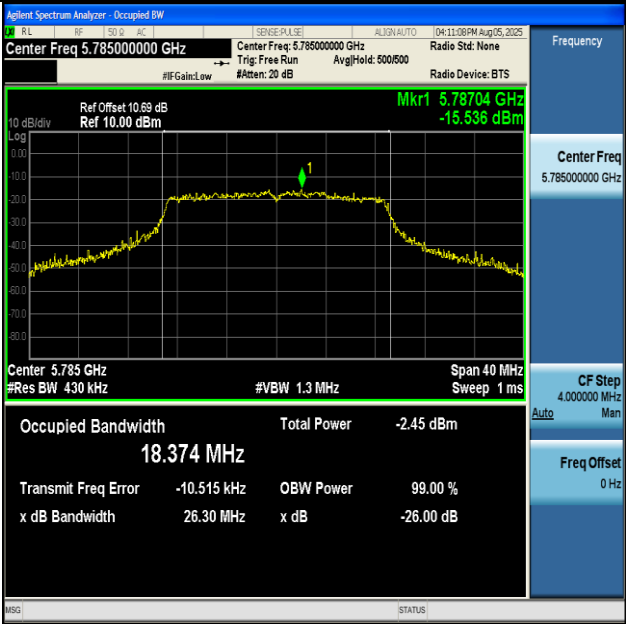
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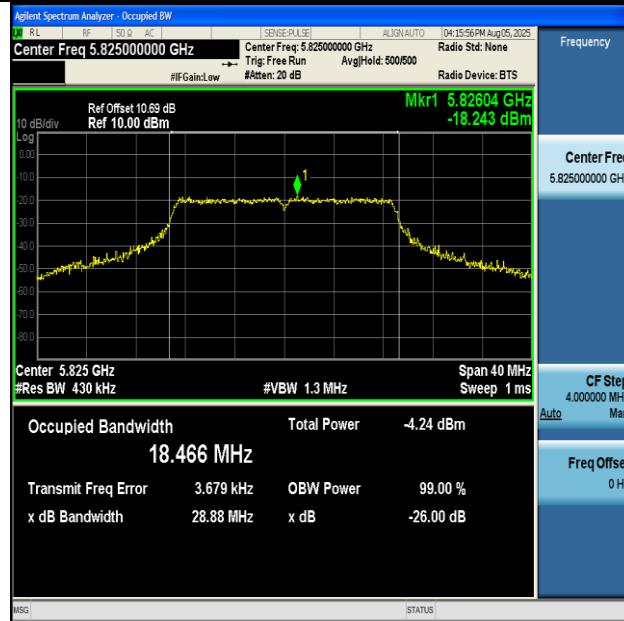
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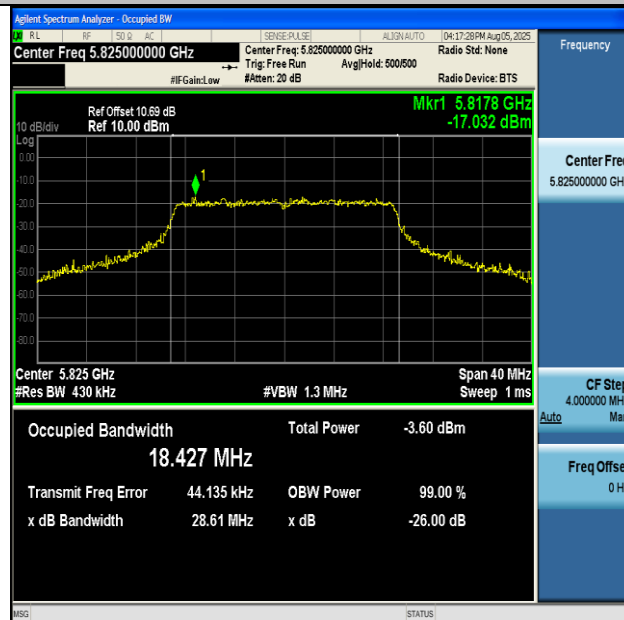
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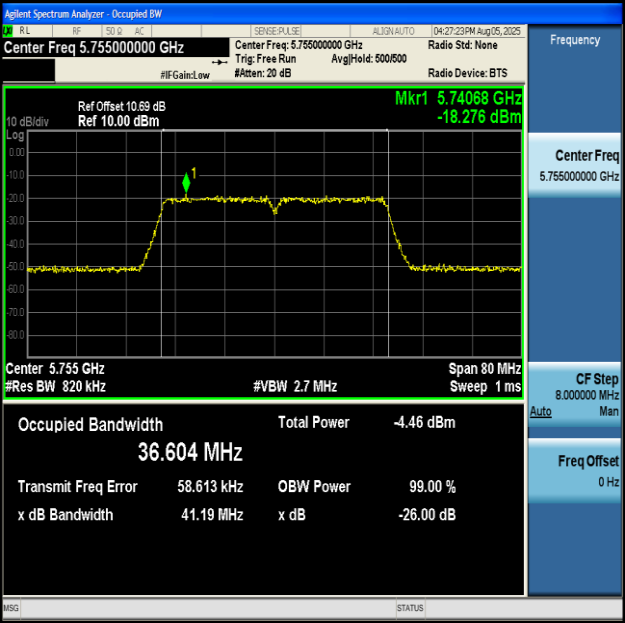
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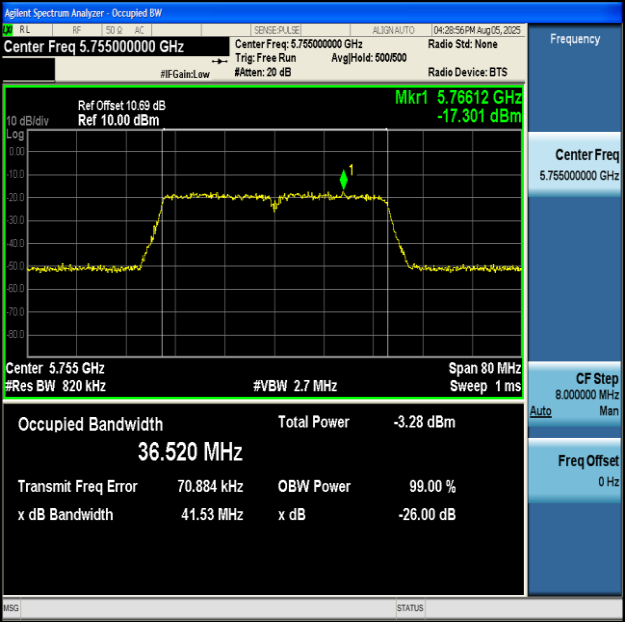
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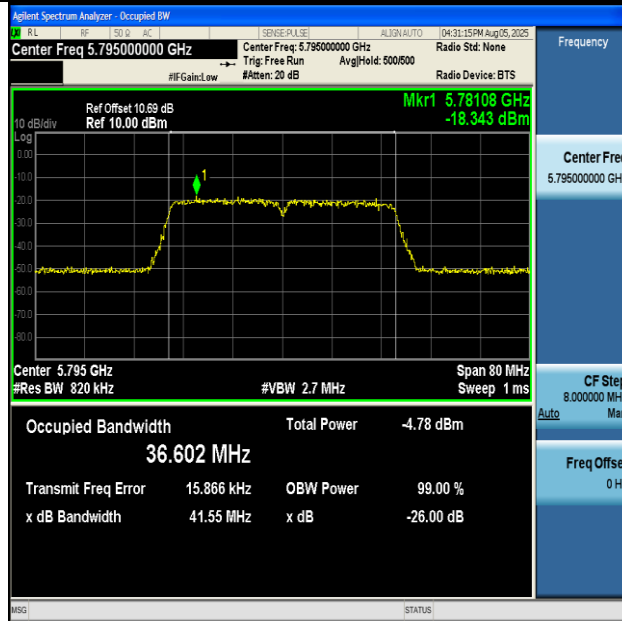
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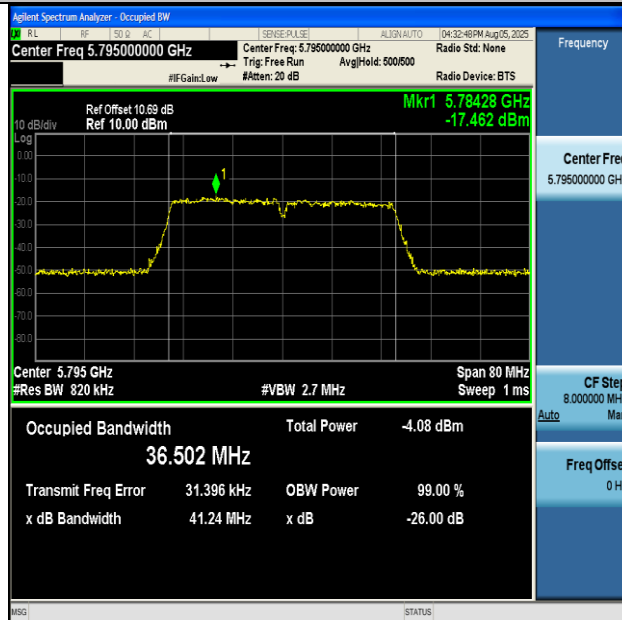
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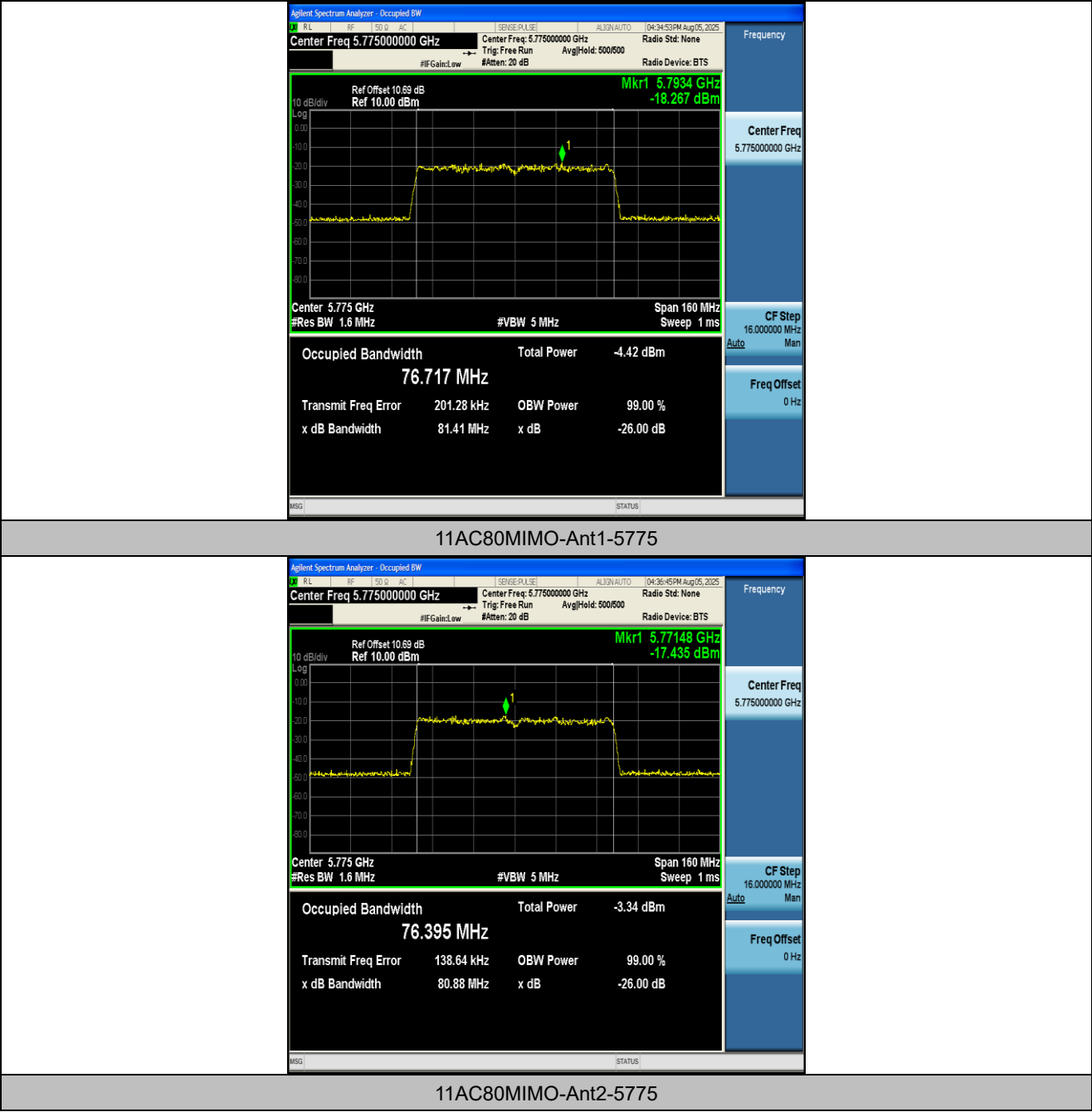
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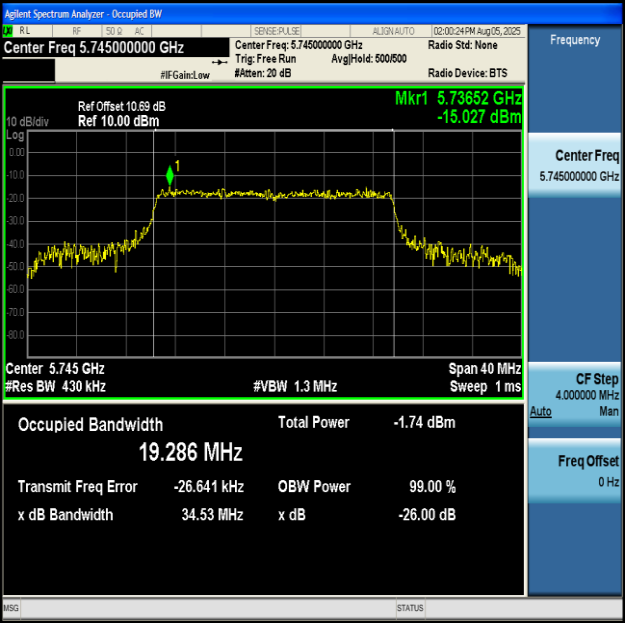


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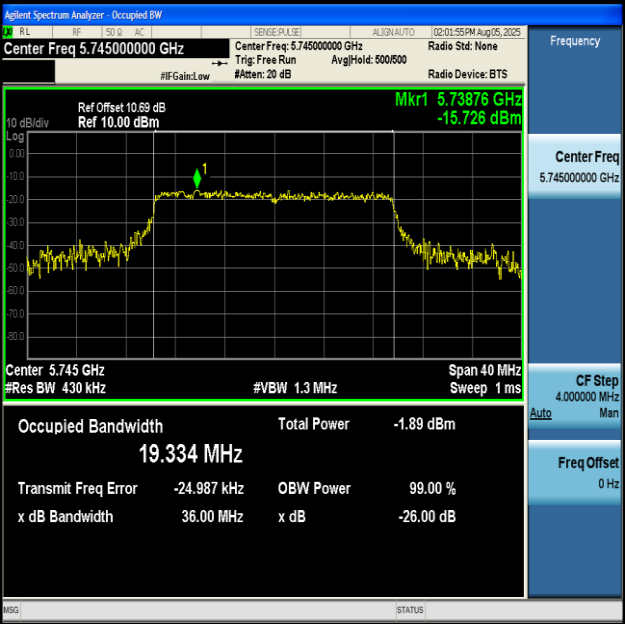


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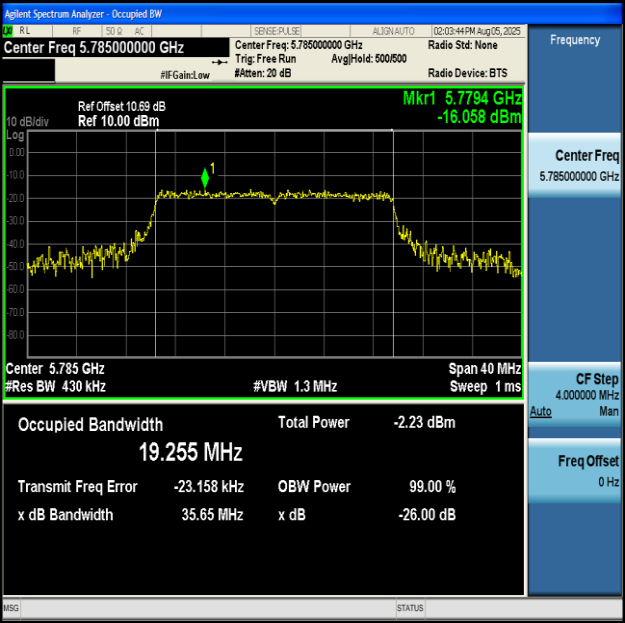




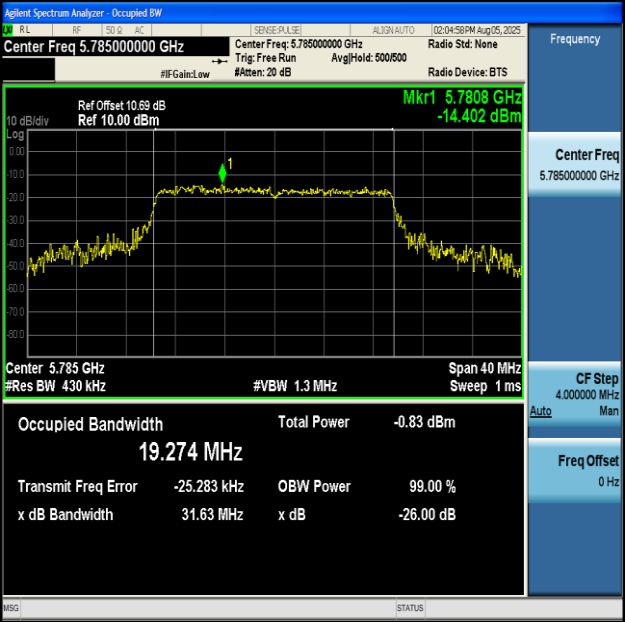
11AX20MIMO-Ant1-5745



11AX20MIMO-Ant2-5745



11AX20MIMO-Ant1-5785



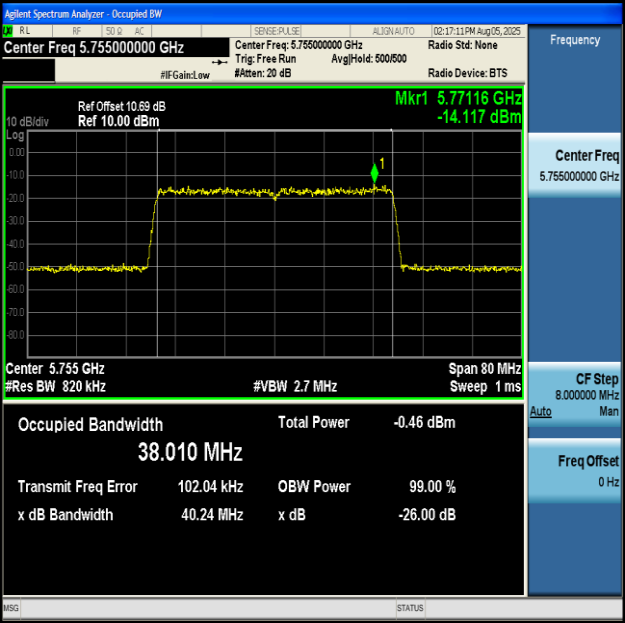
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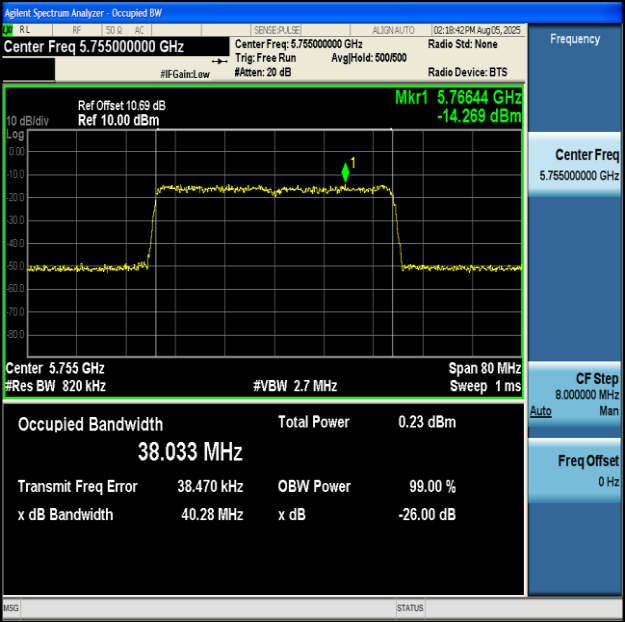
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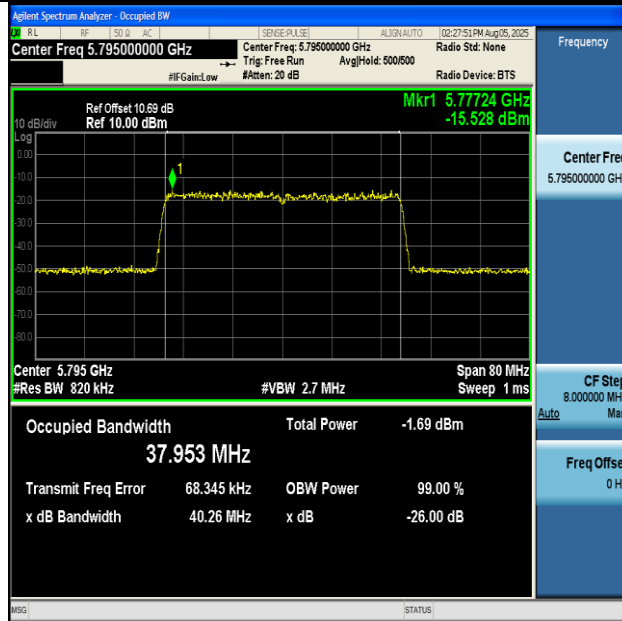
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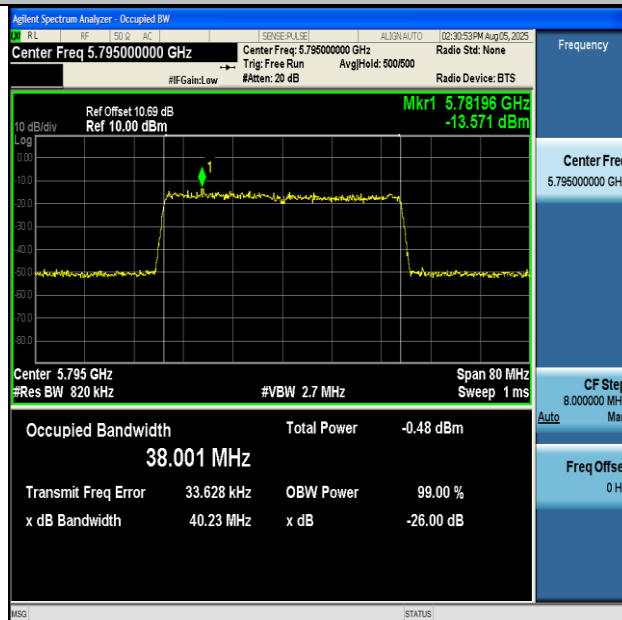
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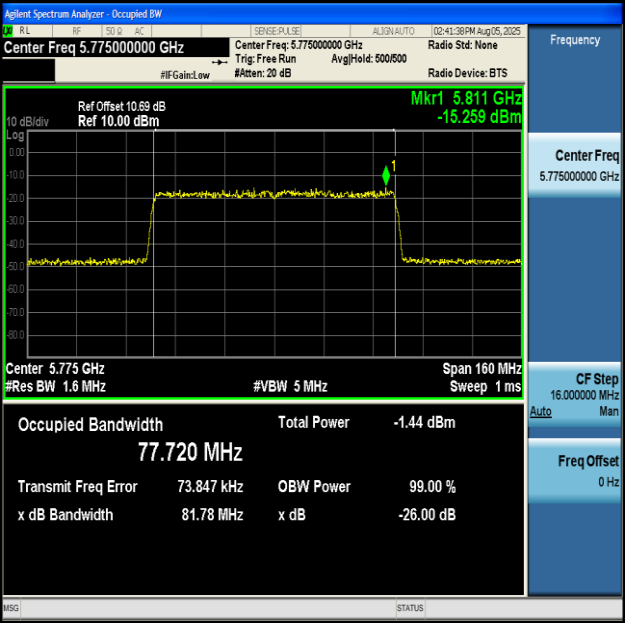
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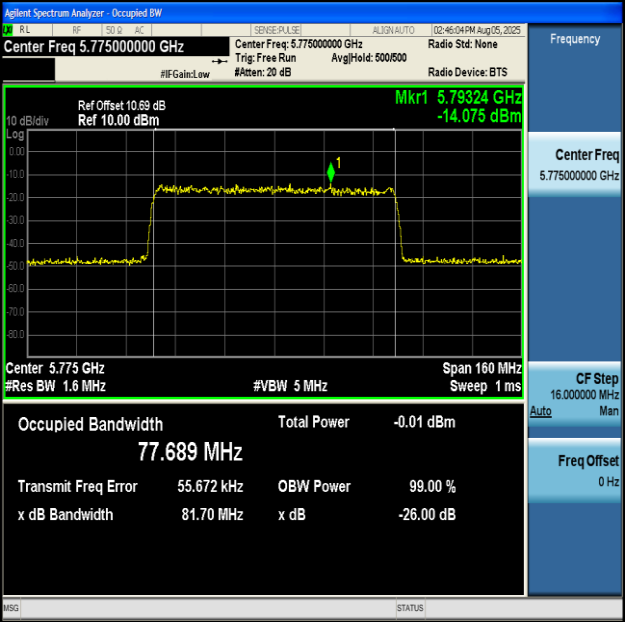
11AX40MIMO-Ant1-5795



11AX40MIMO-Ant2-5795



11AX80MIMO-Ant1-5775



11AX80MIMO-Ant2-5775

Appendix A: Min emission bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	15.920	5736.840	5752.760	0.5	PASS
11A	Ant2	5745	16.080	5736.800	5752.880	0.5	PASS
11A	Ant1	5785	16.320	5776.800	5793.120	0.5	PASS
11A	Ant2	5785	15.680	5776.840	5792.520	0.5	PASS
11A	Ant1	5825	16.240	5816.880	5833.120	0.5	PASS
11A	Ant2	5825	16.320	5816.840	5833.160	0.5	PASS
11N20MIMO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11N20MIMO	Ant2	5745	17.560	5736.200	5753.760	0.5	PASS
11N20MIMO	Ant1	5785	16.040	5776.480	5792.520	0.5	PASS
11N20MIMO	Ant2	5785	17.560	5776.200	5793.760	0.5	PASS
11N20MIMO	Ant1	5825	17.200	5816.560	5833.760	0.5	PASS
11N20MIMO	Ant2	5825	17.600	5816.200	5833.800	0.5	PASS
11N40MIMO	Ant1	5755	34.960	5737.480	5772.440	0.5	PASS
11N40MIMO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
11N40MIMO	Ant1	5795	33.840	5778.680	5812.520	0.5	PASS
11N40MIMO	Ant2	5795	32.560	5777.480	5810.040	0.5	PASS
11AC20MIMO	Ant1	5745	17.240	5736.240	5753.480	0.5	PASS
11AC20MIMO	Ant2	5745	16.360	5736.400	5752.760	0.5	PASS
11AC20MIMO	Ant1	5785	16.560	5776.840	5793.400	0.5	PASS
11AC20MIMO	Ant2	5785	16.960	5776.520	5793.480	0.5	PASS
11AC20MIMO	Ant1	5825	17.640	5816.200	5833.840	0.5	PASS
11AC20MIMO	Ant2	5825	17.640	5816.200	5833.840	0.5	PASS
11AC40MIMO	Ant1	5755	36.400	5736.840	5773.240	0.5	PASS
11AC40MIMO	Ant2	5755	36.000	5736.920	5772.920	0.5	PASS
11AC40MIMO	Ant1	5795	35.680	5776.920	5812.600	0.5	PASS
11AC40MIMO	Ant2	5795	36.240	5776.840	5813.080	0.5	PASS
11AC80MIMO	Ant1	5775	75.520	5737.080	5812.600	0.5	PASS
11AC80MIMO	Ant2	5775	75.680	5737.080	5812.760	0.5	PASS
11AX20MIMO	Ant1	5745	18.760	5735.520	5754.280	0.5	PASS
11AX20MIMO	Ant2	5745	18.840	5735.480	5754.320	0.5	PASS
11AX20MIMO	Ant1	5785	19.040	5775.480	5794.520	0.5	PASS
11AX20MIMO	Ant2	5785	19.040	5775.480	5794.520	0.5	PASS
11AX20MIMO	Ant1	5825	19.000	5815.480	5834.480	0.5	PASS
11AX20MIMO	Ant2	5825	18.680	5815.720	5834.400	0.5	PASS
11AX40MIMO	Ant1	5755	38.080	5735.960	5774.040	0.5	PASS
11AX40MIMO	Ant2	5755	37.920	5735.960	5773.880	0.5	PASS
11AX40MIMO	Ant1	5795	38.080	5775.960	5814.040	0.5	PASS

11AX40MIMO	Ant2	5795	38.000	5775.960	5813.960	0.5	PASS
11AX80MIMO	Ant1	5775	77.920	5736.120	5814.040	0.5	PASS
11AX80MIMO	Ant2	5775	77.760	5736.120	5813.880	0.5	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





11A-Ant1-5785-PASS



11A-Ant2-5785-PASS



11A-Ant1-5825-PASS



11A-Ant2-5825-PASS



11N20MIMO-Ant1-5745-PASS



11N20MIMO-Ant2-5745-PASS



11N20MIMO-Ant1-5785-PASS



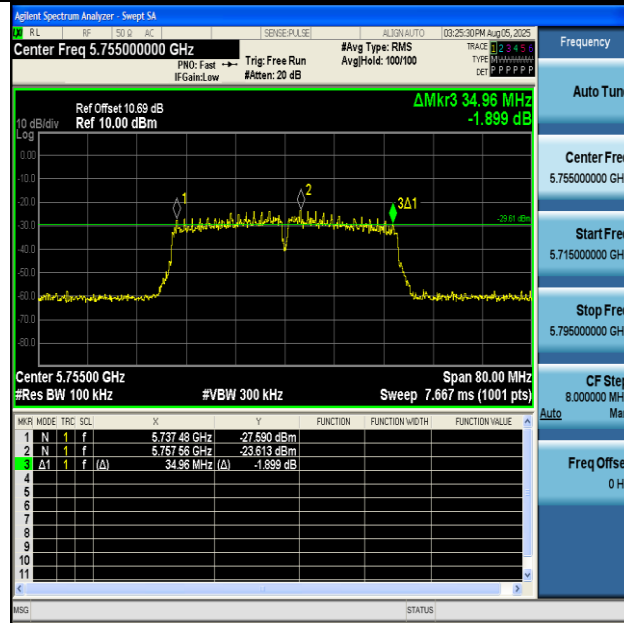
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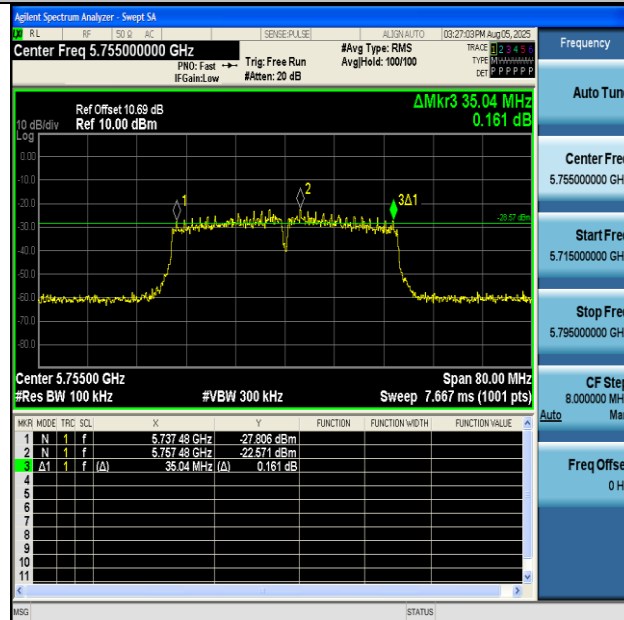
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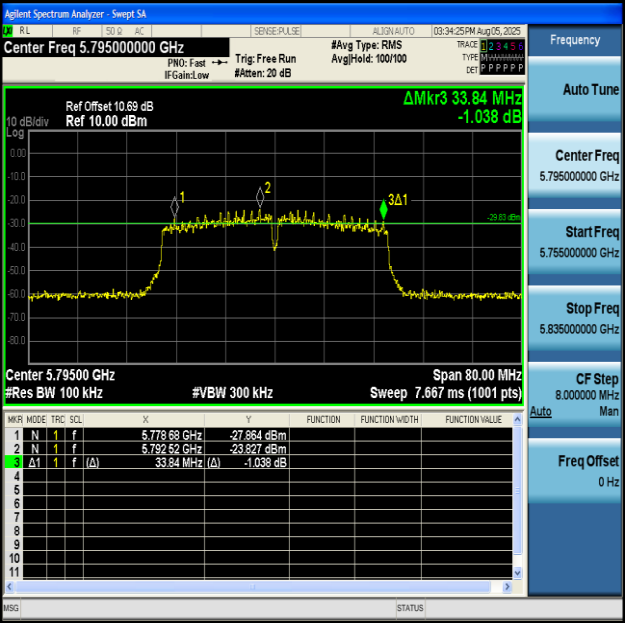
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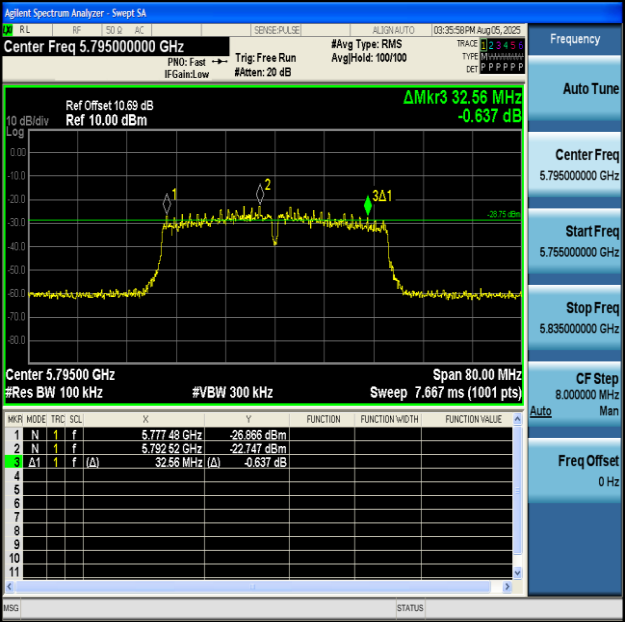
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11N40MIMO-Ant2-5755-PASS



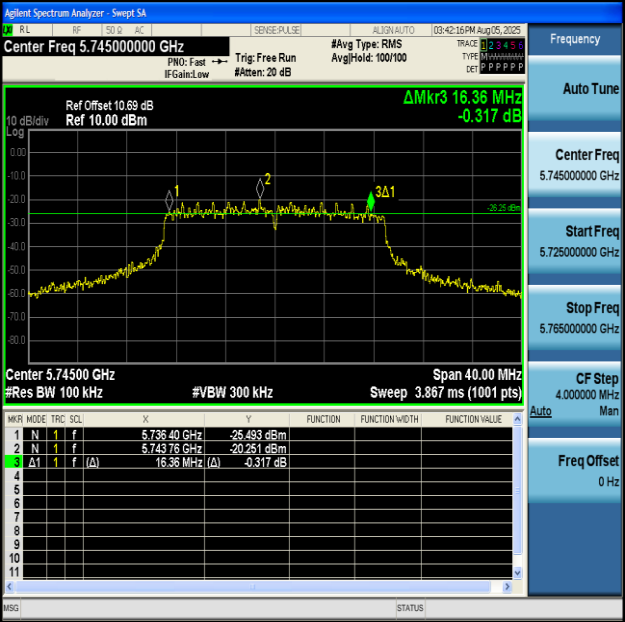
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11N40MIMO-Ant2-5795-PASS



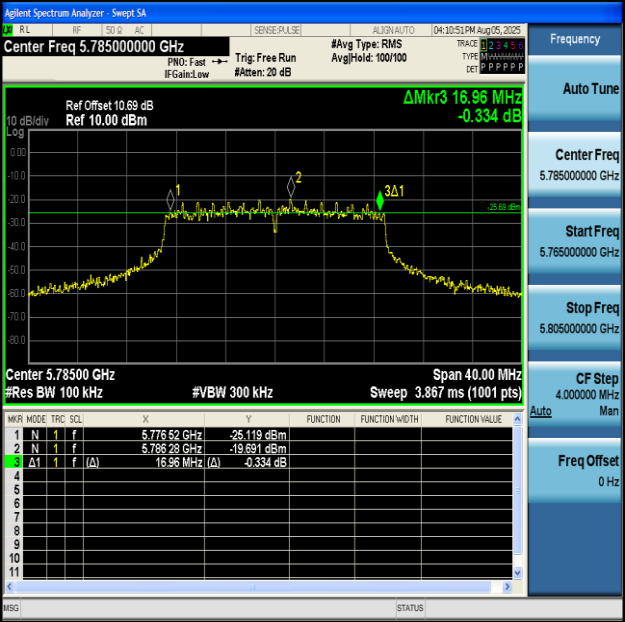
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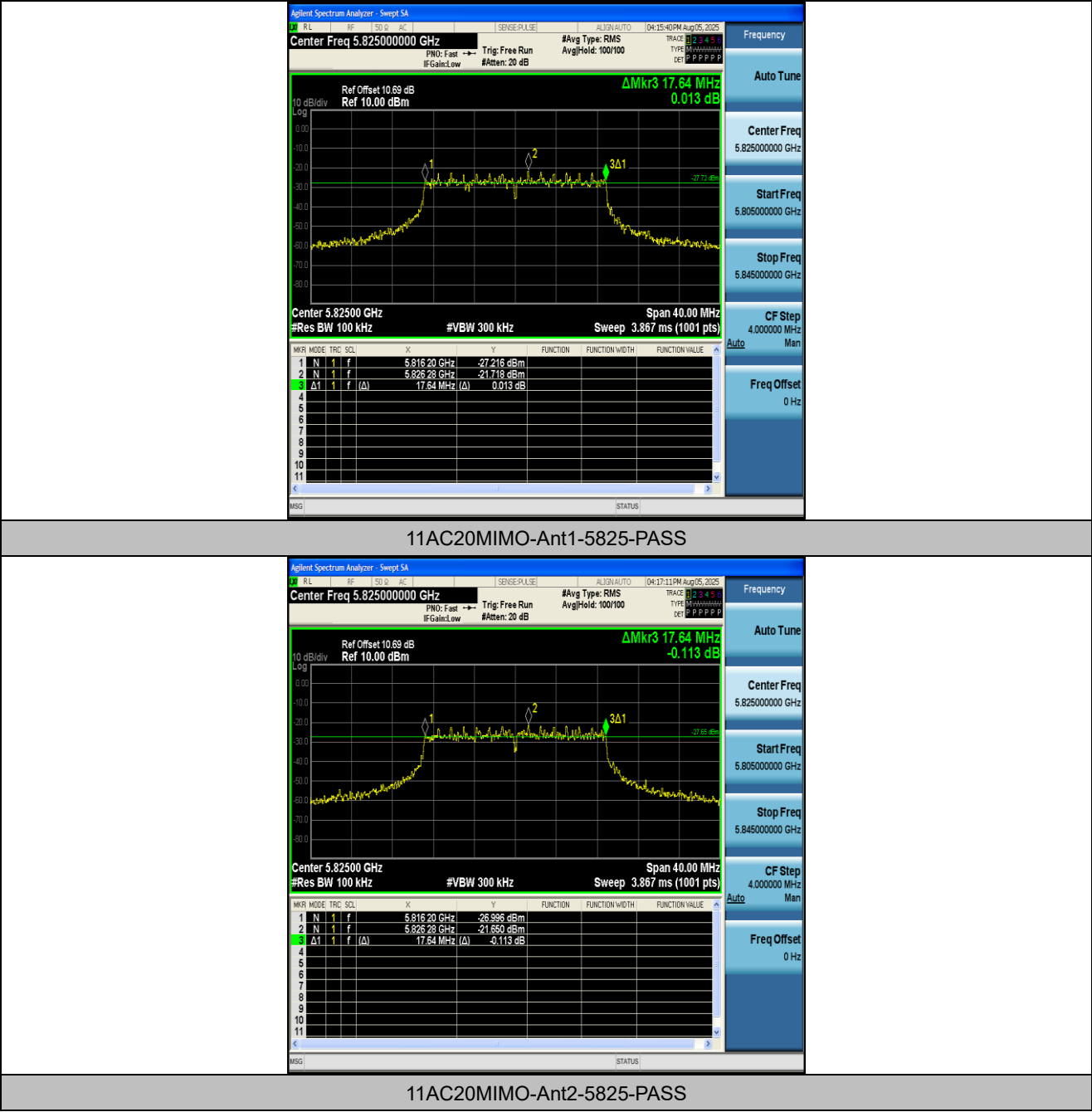
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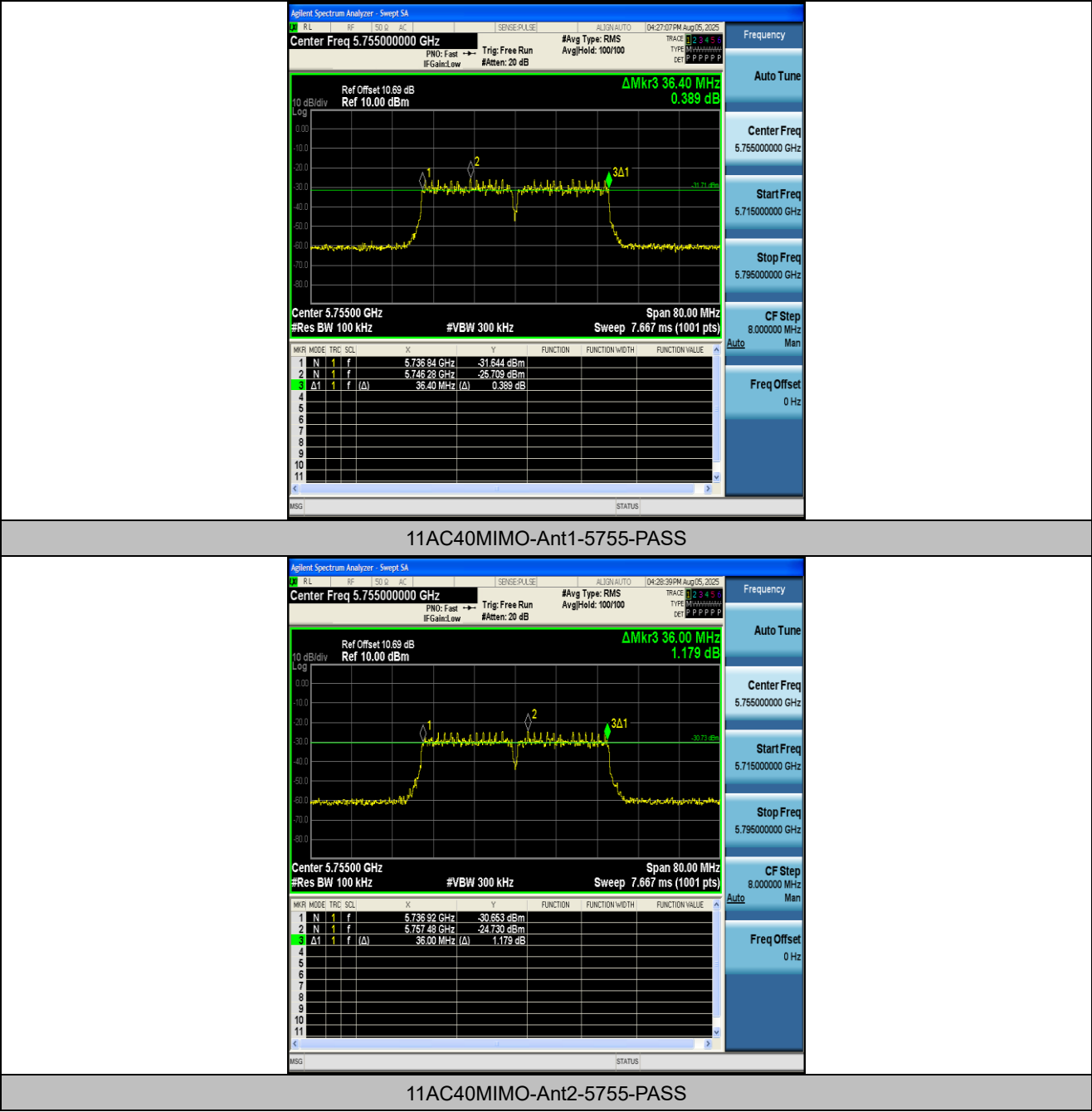


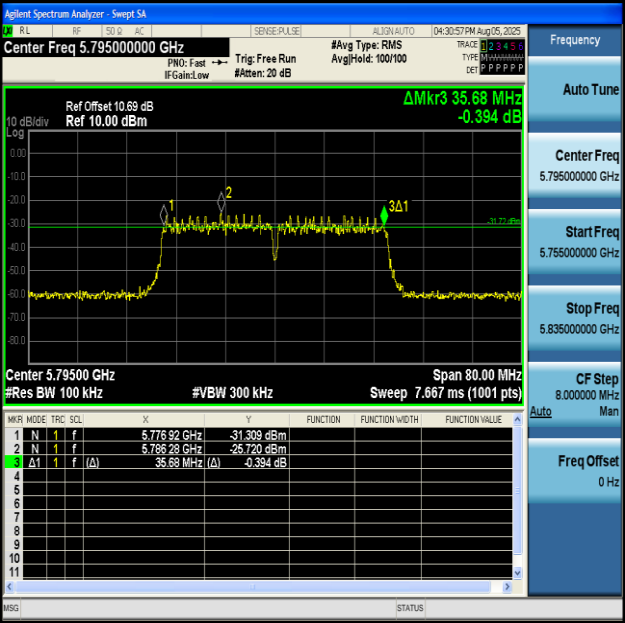
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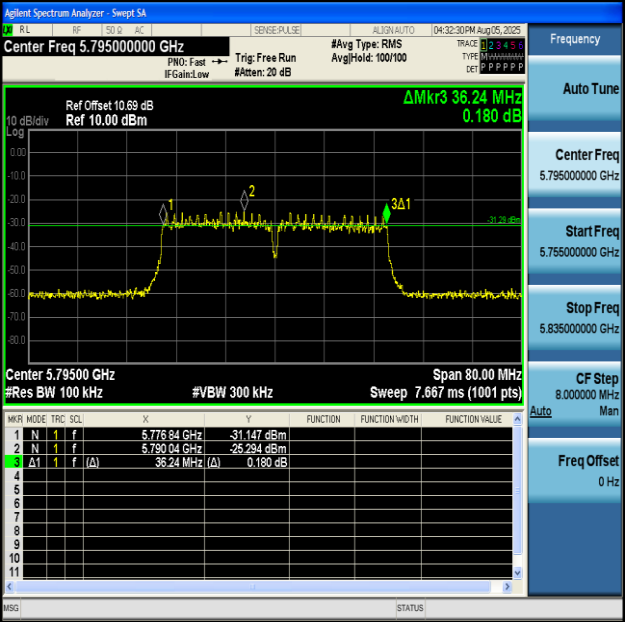
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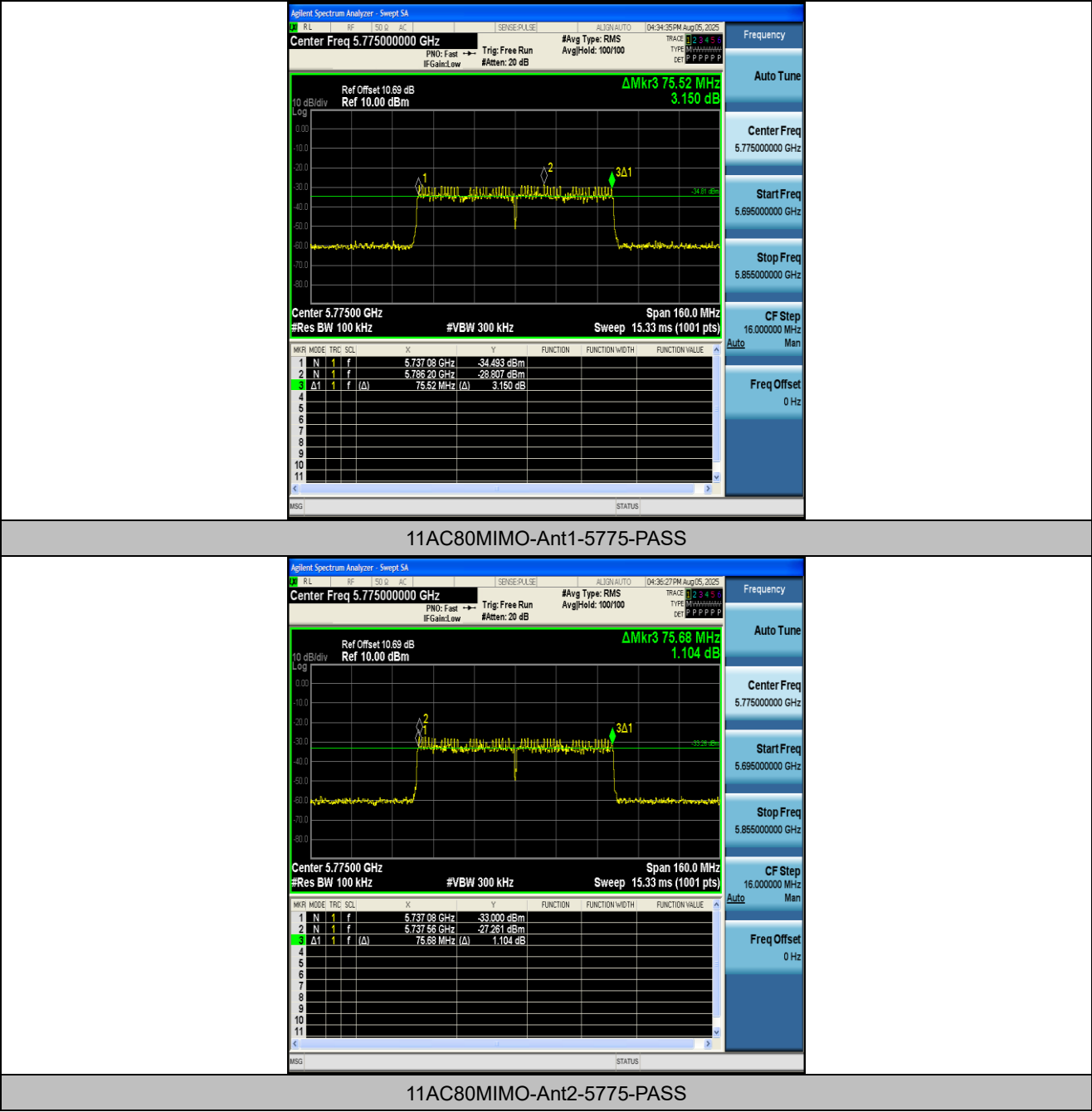




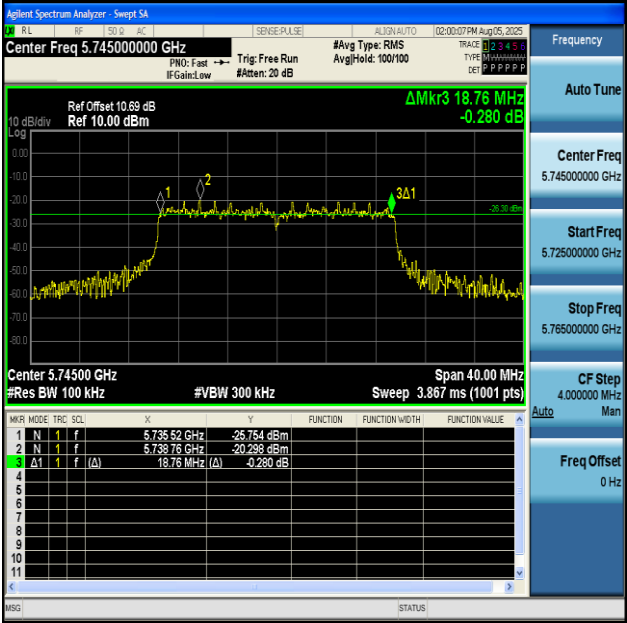
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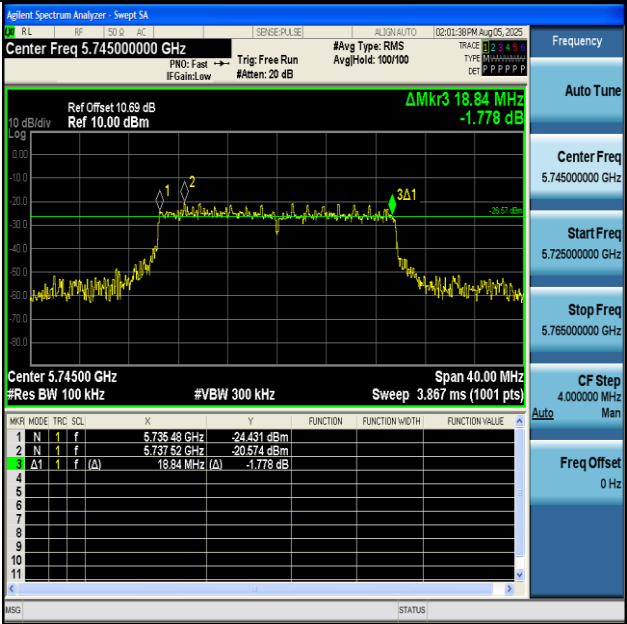
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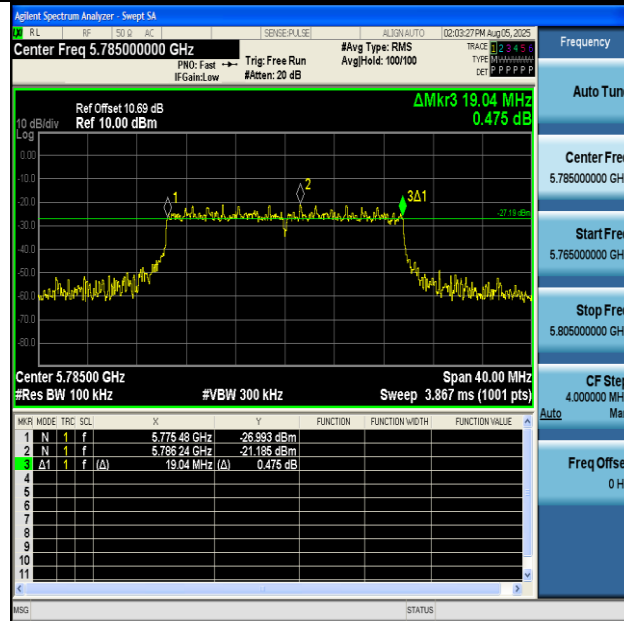
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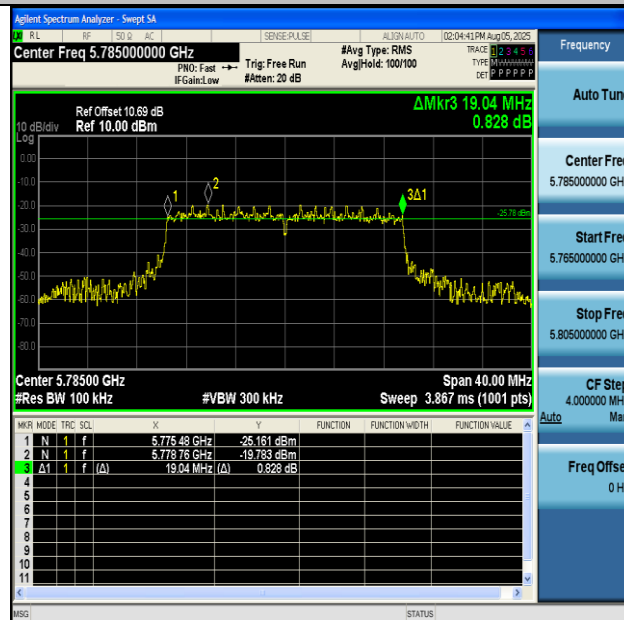
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11AX20MIMO-Ant2-5745-PASS



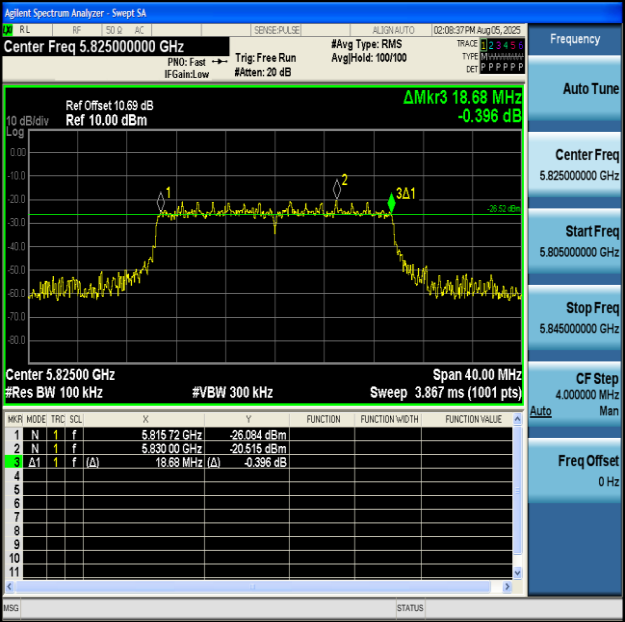
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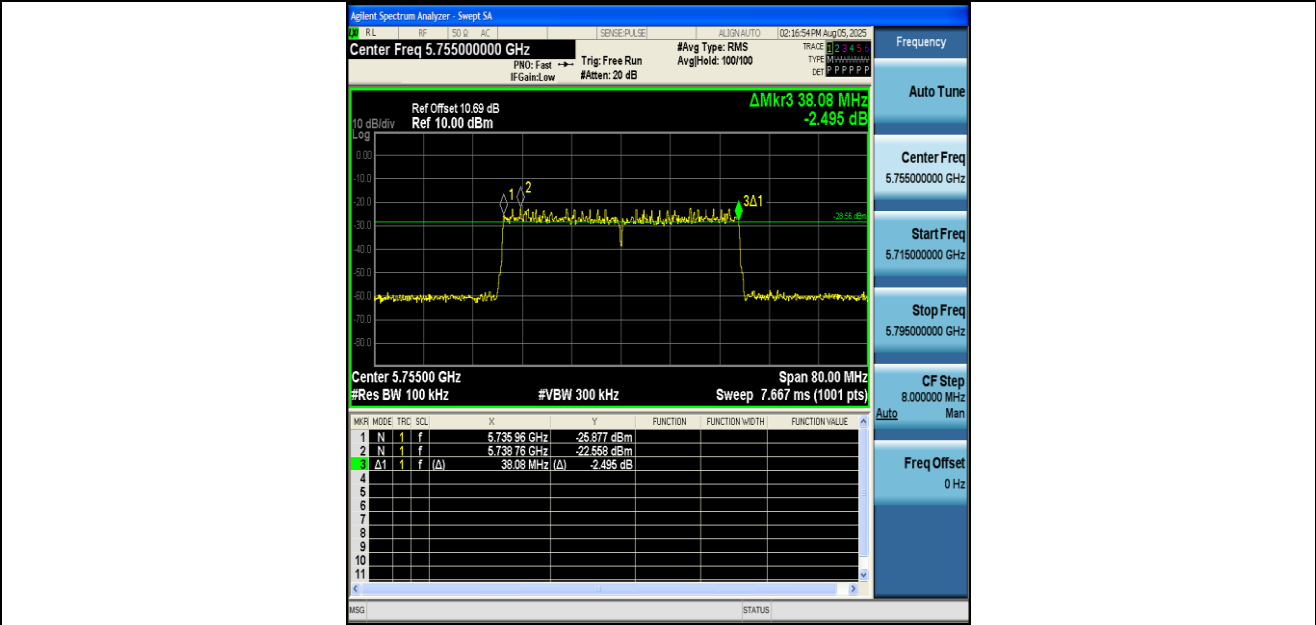
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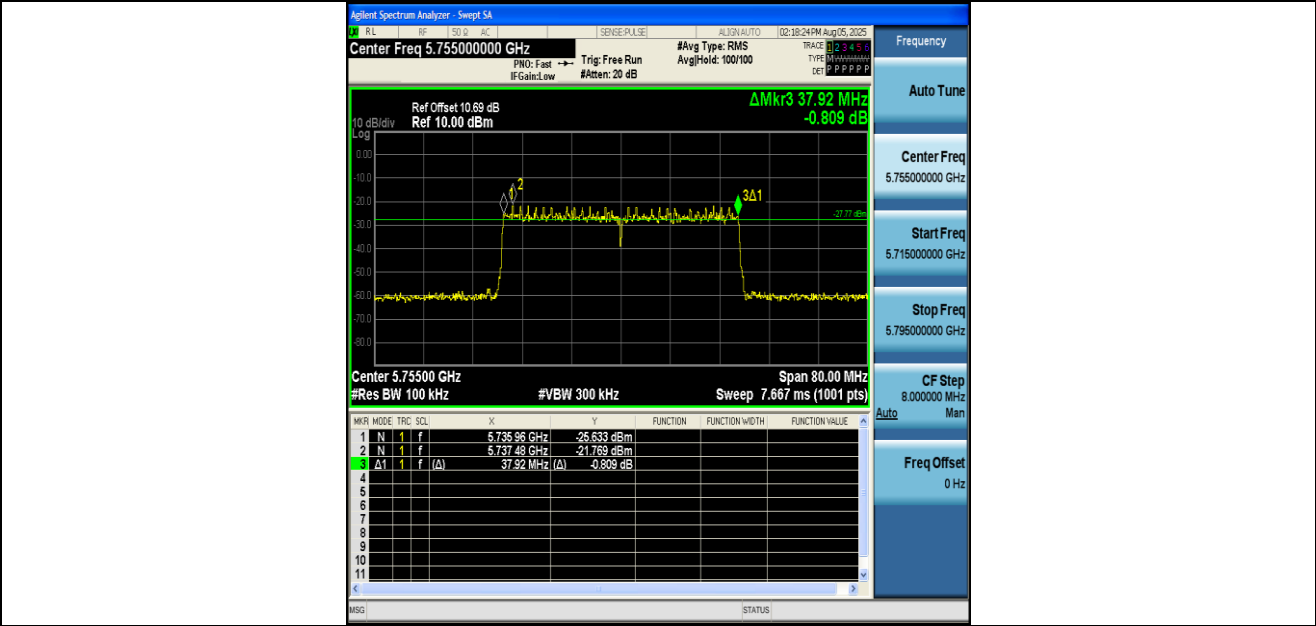
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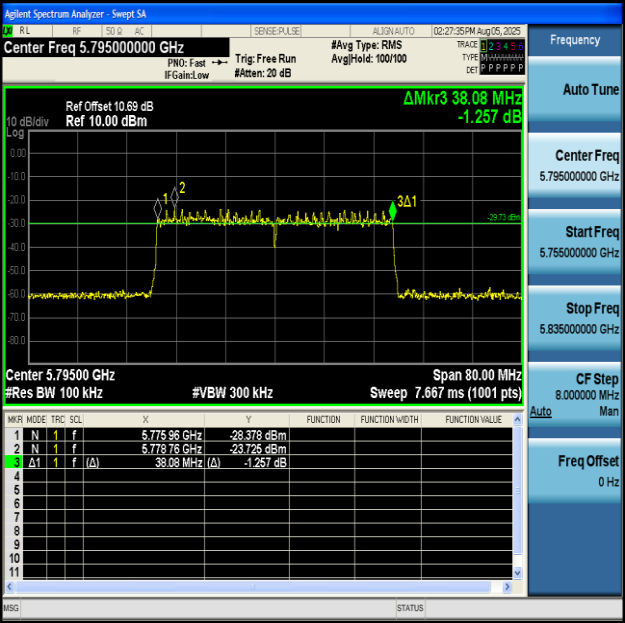
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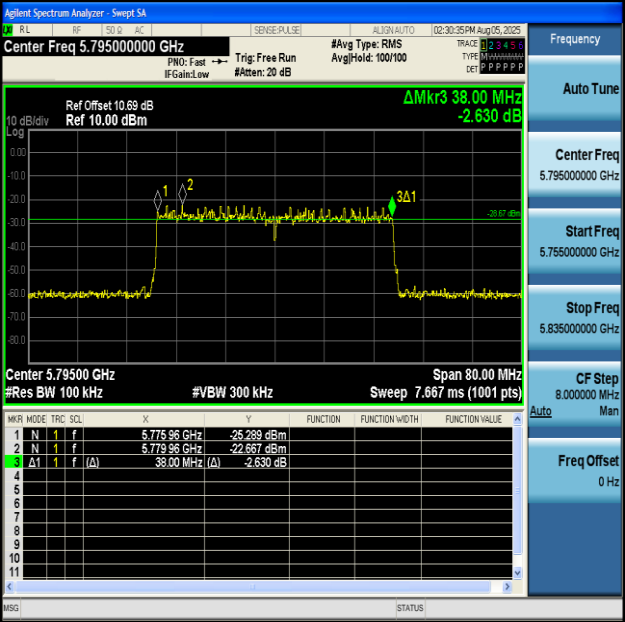
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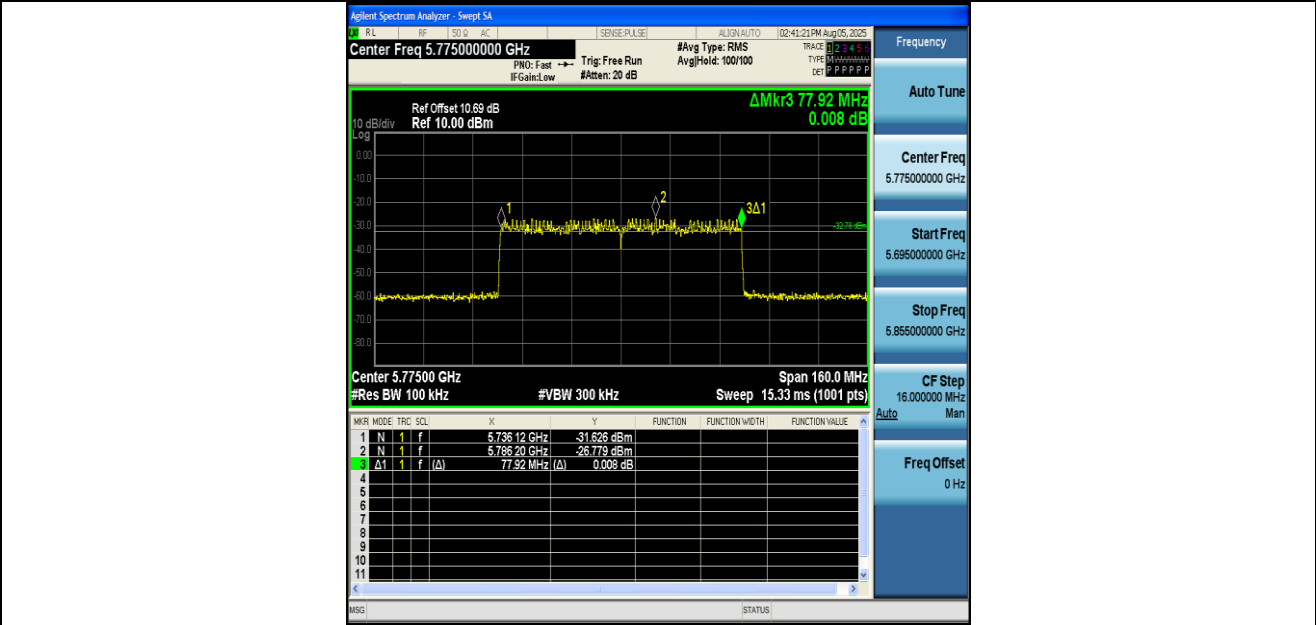
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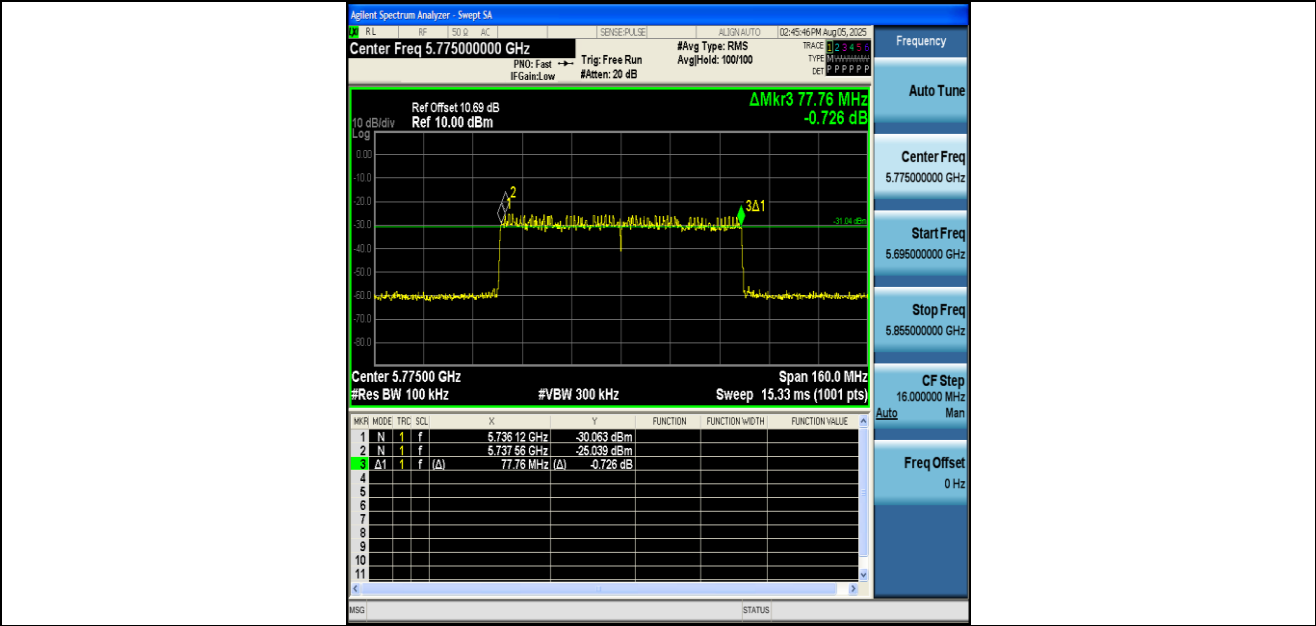
11AX40MIMO-Ant1-5795-PASS



11AX40MIMO-Ant2-5795-PASS



11AX80MIMO-Ant1-5775-PASS



11AX80MIMO-Ant2-5775-PASS

Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant2	5745	-5.64	≤30.00	PASS
11A	Ant1	5745	-6.42	≤30.00	PASS
11A	Ant1	5785	-6.53	≤30.00	PASS
11A	Ant2	5785	-5.87	≤30.00	PASS
11A	Ant1	5825	-5.89	≤30.00	PASS
11A	Ant2	5825	-5.68	≤30.00	PASS
11N20MIMO	Ant1	5745	-10.53	≤30.00	PASS
11N20MIMO	Ant2	5745	-9.59	≤30.00	PASS
11N20MIMO	total	5745	-7.02	≤30.00	PASS
11N20MIMO	Ant1	5785	-10.58	≤30.00	PASS
11N20MIMO	Ant2	5785	-9.84	≤30.00	PASS
11N20MIMO	total	5785	-7.18	≤30.00	PASS
11N20MIMO	Ant1	5825	-9.65	≤30.00	PASS
11N20MIMO	Ant2	5825	-9.39	≤30.00	PASS
11N20MIMO	total	5825	-6.51	≤30.00	PASS
11N40MIMO	Ant1	5755	-10.58	≤30.00	PASS
11N40MIMO	Ant2	5755	-9.88	≤30.00	PASS
11N40MIMO	total	5755	-7.21	≤30.00	PASS
11N40MIMO	Ant1	5795	-10.58	≤30.00	PASS
11N40MIMO	Ant2	5795	-10.36	≤30.00	PASS
11N40MIMO	total	5795	-7.46	≤30.00	PASS
11AC20MIMO	Ant1	5745	-10.19	≤30.00	PASS
11AC20MIMO	Ant2	5745	-9.50	≤30.00	PASS
11AC20MIMO	total	5745	-6.82	≤30.00	PASS
11AC20MIMO	Ant1	5785	-10.52	≤30.00	PASS
11AC20MIMO	Ant2	5785	-9.41	≤30.00	PASS
11AC20MIMO	total	5785	-6.92	≤30.00	PASS
11AC20MIMO	Ant1	5825	-11.07	≤30.00	PASS
11AC20MIMO	Ant2	5825	-10.50	≤30.00	PASS
11AC20MIMO	total	5825	-7.77	≤30.00	PASS
11AC40MIMO	Ant1	5755	-11.72	≤30.00	PASS
11AC40MIMO	Ant2	5755	-9.60	≤30.00	PASS
11AC40MIMO	total	5755	-7.52	≤30.00	PASS
11AC40MIMO	Ant1	5795	-11.58	≤30.00	PASS
11AC40MIMO	Ant2	5795	-11.22	≤30.00	PASS
11AC40MIMO	total	5795	-8.39	≤30.00	PASS
11AC80MIMO	Ant1	5775	-12.12	≤30.00	PASS

11AC80MIMO	Ant2	5775	-10.91	≤30.00	PASS
11AC80MIMO	total	5775	-8.46	≤30.00	PASS
11AX20MIMO	Ant1	5745	-9.14	≤30.00	PASS
11AX20MIMO	Ant2	5745	-9.10	≤30.00	PASS
11AX20MIMO	total	5745	-6.11	≤30.00	PASS
11AX20MIMO	Ant1	5785	-9.61	≤30.00	PASS
11AX20MIMO	Ant2	5785	-7.88	≤30.00	PASS
11AX20MIMO	total	5785	-5.65	≤30.00	PASS
11AX20MIMO	Ant1	5825	-8.61	≤30.00	PASS
11AX20MIMO	Ant2	5825	-9.36	≤30.00	PASS
11AX20MIMO	total	5825	-5.96	≤30.00	PASS
11AX40MIMO	Ant1	5755	-8.12	≤30.00	PASS
11AX40MIMO	Ant2	5755	-12.83	≤30.00	PASS
11AX40MIMO	total	5755	-6.86	≤30.00	PASS
11AX40MIMO	Ant1	5795	-9.61	≤30.00	PASS
11AX40MIMO	Ant2	5795	-8.09	≤30.00	PASS
11AX40MIMO	total	5795	-5.77	≤30.00	PASS
11AX80MIMO	Ant1	5775	-9.56	≤30.00	PASS
11AX80MIMO	Ant2	5775	-8.37	≤30.00	PASS
11AX80MIMO	total	5775	-5.91	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

Appendix C: Maximum power spectral density

Test Result

Frequency [MHz]	Test Mode	Antenna	Result [dBm/300KHz]	RBW Factor [dB]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
5745	11A	Ant1	-19.84	2.22	-17.62	≤30.00	PASS
5745	11A	Ant2	-19.03	2.22	-16.81	≤30.00	PASS
5785	11A	Ant1	-20.08	2.22	-17.86	≤30.00	PASS
5785	11A	Ant2	-19.2	2.22	-16.98	≤30.00	PASS
5825	11A	Ant1	-19.35	2.22	-17.13	≤30.00	PASS
5825	11A	Ant2	-18.31	2.22	-16.09	≤30.00	PASS
5745	11N20MIMO	Ant1	-24.01	2.22	-21.79	≤30.00	PASS
5745	11N20MIMO	Ant2	-23.32	2.22	-21.1	≤30.00	PASS
5745	11N20MIMO	total	--	--	-18.42	≤30.00	PASS
5785	11N20MIMO	Ant1	-23.92	2.22	-21.7	≤30.00	PASS
5785	11N20MIMO	Ant2	-23.38	2.22	-21.16	≤30.00	PASS
5785	11N20MIMO	total	--	--	-18.41	≤30.00	PASS
5825	11N20MIMO	Ant1	-21.85	2.22	-19.63	≤30.00	PASS
5825	11N20MIMO	Ant2	-20.55	2.22	-18.33	≤30.00	PASS
5825	11N20MIMO	total	--	--	-15.92	≤30.00	PASS
5755	11N40MIMO	Ant1	-24.87	2.22	-22.65	≤30.00	PASS
5755	11N40MIMO	Ant2	-23.97	2.22	-21.75	≤30.00	PASS
5755	11N40MIMO	total	--	--	-19.17	≤30.00	PASS
5795	11N40MIMO	Ant1	-25.25	2.22	-23.03	≤30.00	PASS
5795	11N40MIMO	Ant2	-24.83	2.22	-22.61	≤30.00	PASS
5795	11N40MIMO	total	--	--	-19.8	≤30.00	PASS
5745	11AC20MIMO	Ant1	-22.34	2.22	-20.12	≤30.00	PASS
5745	11AC20MIMO	Ant2	-21.87	2.22	-19.65	≤30.00	PASS
5745	11AC20MIMO	total	--	--	-16.87	≤30.00	PASS
5785	11AC20MIMO	Ant1	-22.64	2.22	-20.42	≤30.00	PASS
5785	11AC20MIMO	Ant2	-21.1	2.22	-18.88	≤30.00	PASS
5785	11AC20MIMO	total	--	--	-16.57	≤30.00	PASS
5825	11AC20MIMO	Ant1	-23.75	2.22	-21.53	≤30.00	PASS
5825	11AC20MIMO	Ant2	-22.18	2.22	-19.96	≤30.00	PASS
5825	11AC20MIMO	total	--	--	-17.66	≤30.00	PASS
5755	11AC40MIMO	Ant1	-26.25	2.22	-24.03	≤30.00	PASS
5755	11AC40MIMO	Ant2	-23.9	2.22	-21.68	≤30.00	PASS
5755	11AC40MIMO	total	--	--	-19.69	≤30.00	PASS
5795	11AC40MIMO	Ant1	-25.99	2.22	-23.77	≤30.00	PASS
5795	11AC40MIMO	Ant2	-24.95	2.22	-22.73	≤30.00	PASS
5795	11AC40MIMO	total	--	--	-20.21	≤30.00	PASS
5775	11AC80MIMO	Ant1	-28.42	2.22	-26.2	≤30.00	PASS

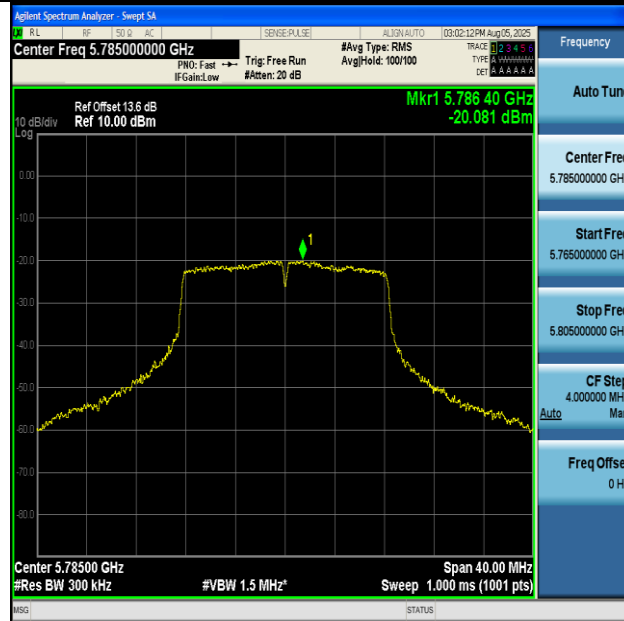
5775	11AC80MIMO	Ant2	-27.22	2.22	-25	≤30.00	PASS
5775	11AC80MIMO	total	--	--	-22.55	≤30.00	PASS
5745	11AX20MIMO	Ant1	-21.87	2.22	-19.65	≤30.00	PASS
5745	11AX20MIMO	Ant2	-22.05	2.22	-19.83	≤30.00	PASS
5745	11AX20MIMO	total	--	--	-16.73	≤30.00	PASS
5785	11AX20MIMO	Ant1	-22.63	2.22	-20.41	≤30.00	PASS
5785	11AX20MIMO	Ant2	-21.07	2.22	-18.85	≤30.00	PASS
5785	11AX20MIMO	total	--	--	-16.55	≤30.00	PASS
5825	11AX20MIMO	Ant1	-21.53	2.22	-19.31	≤30.00	PASS
5825	11AX20MIMO	Ant2	-21.83	2.22	-19.61	≤30.00	PASS
5825	11AX20MIMO	total	--	--	-16.45	≤30.00	PASS
5755	11AX40MIMO	Ant1	-27.29	2.22	-25.07	≤30.00	PASS
5755	11AX40MIMO	Ant2	-31.41	2.22	-29.19	≤30.00	PASS
5755	11AX40MIMO	total	--	--	-23.65	≤30.00	PASS
5795	11AX40MIMO	Ant1	-28.43	2.22	-26.21	≤30.00	PASS
5795	11AX40MIMO	Ant2	-27	2.22	-24.78	≤30.00	PASS
5795	11AX40MIMO	total	--	--	-22.43	≤30.00	PASS
5775	11AX80MIMO	Ant1	-31.75	2.22	-29.53	≤30.00	PASS
5775	11AX80MIMO	Ant2	-30.14	2.22	-27.92	≤30.00	PASS
5775	11AX80MIMO	total	--	--	-25.64	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

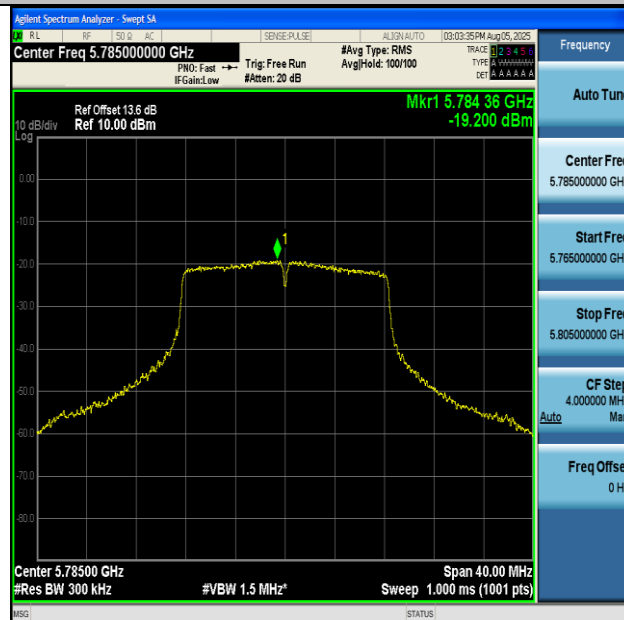
Result[dBm/500KHz] = Result[dBm/300KHz] + RB Factor(dB)

Test Graphs





11A-Ant1-5785-PASS



11A-Ant2-5785-PASS