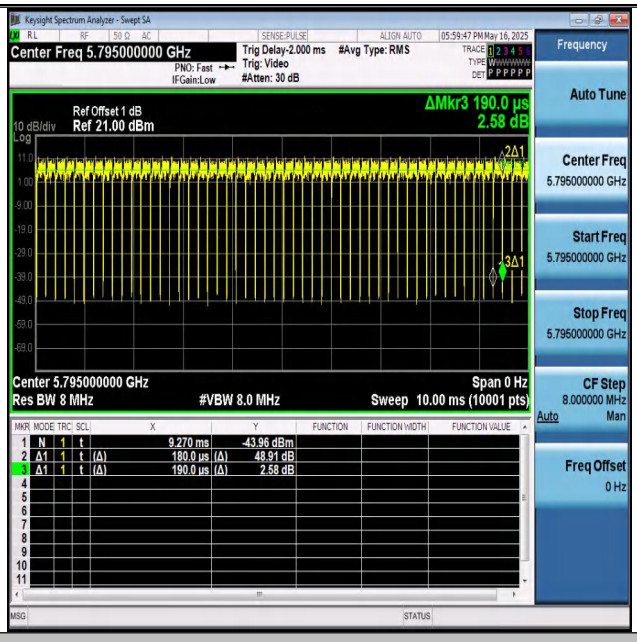
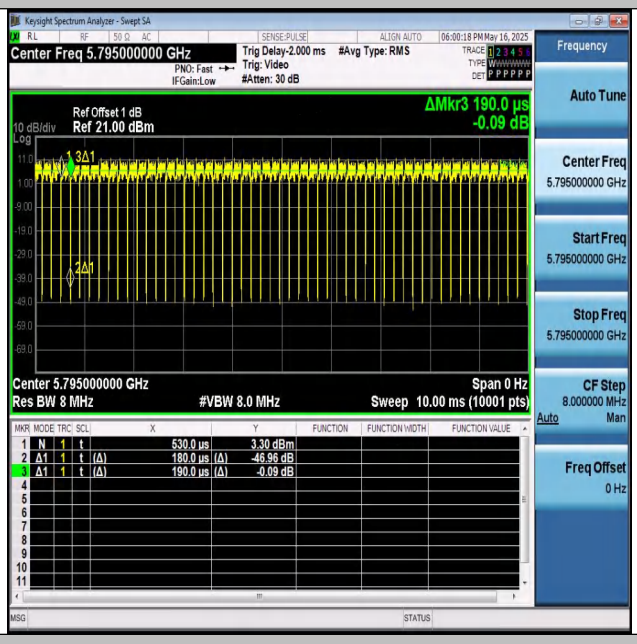
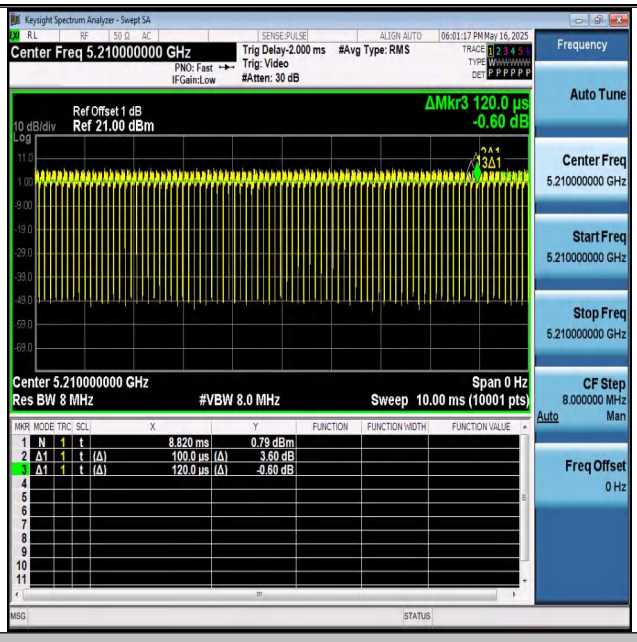


NTNV-11AC40MIMO-Ant0-5795



NTNV-11AC40MIMO-Ant1-5795



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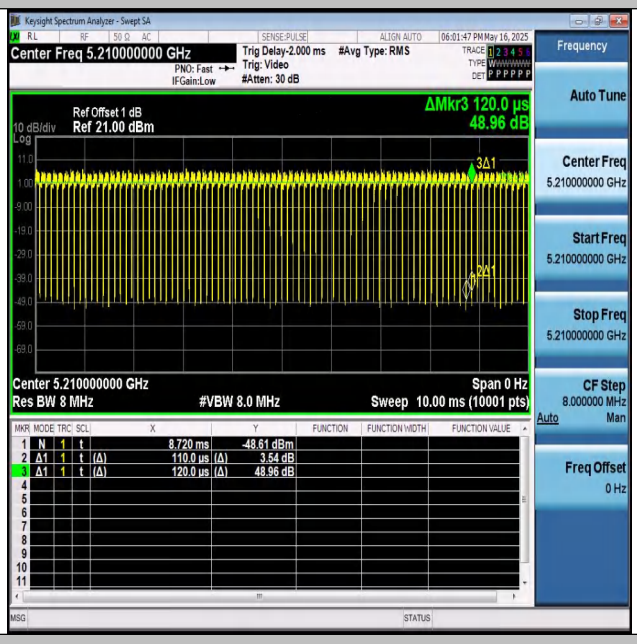
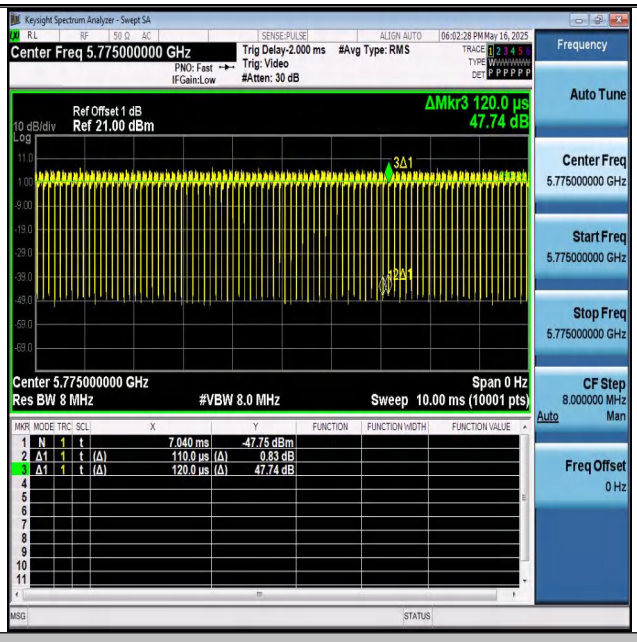
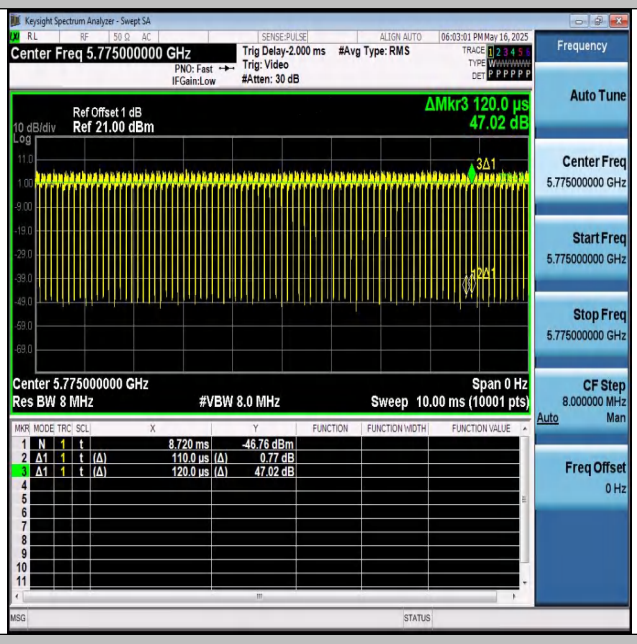


NTNV-11AC80MIMO-Ant1-5210



NTNV-11AC80MIMO-Ant0-5775



NTNV-11AC80MIMO-Ant1-5775

Appendix C: Maximum Conducted Output Power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant0	5180	---	12.45	97.14	0.13	12.58	≤23.98	PASS
11A	Ant1	5180	---	12.19	94.29	0.26	12.45	≤23.98	PASS
11A	Ant0	5220	---	12.19	94.29	0.26	12.45	≤23.98	PASS
11A	Ant1	5220	---	12.06	97.06	0.13	12.19	≤23.98	PASS
11A	Ant0	5240	---	11.89	97.14	0.13	12.02	≤23.98	PASS
11A	Ant1	5240	---	12	94.29	0.26	12.26	≤23.98	PASS
11A	Ant0	5745	---	12.04	94.29	0.26	12.3	≤30.00	PASS
11A	Ant1	5745	---	12.36	97.14	0.13	12.49	≤30.00	PASS
11A	Ant0	5785	---	11.89	94.29	0.26	12.15	≤30.00	PASS
11A	Ant1	5785	---	12.19	97.06	0.13	12.32	≤30.00	PASS
11A	Ant0	5825	---	11.87	94.29	0.26	12.13	≤30.00	PASS
11A	Ant1	5825	---	11.85	94.29	0.26	12.11	≤30.00	PASS
11N20MIMO	Ant0	5180	---	11.6	96.97	0.13	11.73	≤23.98	PASS
11N20MIMO	Ant1	5180	---	11.66	96.97	0.13	11.79	≤23.98	PASS
11N20MIMO	total	5180	---	---	---	---	14.77	≤23.08	PASS
11N20MIMO	Ant0	5220	---	11.9	97.06	0.13	12.03	≤23.98	PASS
11N20MIMO	Ant1	5220	---	11.97	97.06	0.13	12.1	≤23.98	PASS
11N20MIMO	total	5220	---	---	---	---	15.08	≤23.08	PASS
11N20MIMO	Ant0	5240	---	11.82	97.06	0.13	11.95	≤23.98	PASS
11N20MIMO	Ant1	5240	---	11.91	96.97	0.13	12.04	≤23.98	PASS
11N20MIMO	total	5240	---	---	---	---	15.01	≤23.08	PASS
11N20MIMO	Ant0	5745	---	12.4	96.97	0.13	12.53	≤30.00	PASS
11N20MIMO	Ant1	5745	---	12.36	94.12	0.26	12.62	≤30.00	PASS

11N20MIMO	total	5745	---	---	---	---	15.59	≤28.49	PASS
11N20MIMO	Ant0	5785	---	12.23	97.06	0.13	12.36	≤30.00	PASS
11N20MIMO	Ant1	5785	---	12.3	94.12	0.26	12.56	≤30.00	PASS
11N20MIMO	total	5785	---	---	---	---	15.47	≤28.49	PASS
11N20MIMO	Ant0	5825	---	11.96	96.97	0.13	12.09	≤30.00	PASS
11N20MIMO	Ant1	5825	---	12.01	97.06	0.13	12.14	≤30.00	PASS
11N20MIMO	total	5825	---	---	---	---	15.13	≤28.49	PASS
11N40MIMO	Ant0	5190	---	12.48	94.74	0.23	12.71	≤23.98	PASS
11N40MIMO	Ant1	5190	---	12.58	94.74	0.23	12.81	≤23.98	PASS
11N40MIMO	total	5190	---	---	---	---	15.77	≤23.08	PASS
11N40MIMO	Ant0	5230	---	12.21	94.74	0.23	12.44	≤23.98	PASS
11N40MIMO	Ant1	5230	---	12.19	89.47	0.48	12.67	≤23.98	PASS
11N40MIMO	total	5230	---	---	---	---	15.57	≤23.08	PASS
11N40MIMO	Ant0	5755	---	12.65	89.47	0.48	13.13	≤30.00	PASS
11N40MIMO	Ant1	5755	---	12.68	89.47	0.48	13.16	≤30.00	PASS
11N40MIMO	total	5755	---	---	---	---	16.16	≤28.49	PASS
11N40MIMO	Ant0	5795	---	12.49	89.47	0.48	12.97	≤30.00	PASS
11N40MIMO	Ant1	5795	---	12.42	94.44	0.25	12.67	≤30.00	PASS
11N40MIMO	total	5795	---	---	---	---	15.83	≤28.49	PASS
11AC20MIMO	Ant0	5180	---	11.91	94.29	0.26	12.17	≤23.98	PASS
11AC20MIMO	Ant1	5180	---	11.95	97.06	0.13	12.08	≤23.98	PASS
11AC20M	total	5180	---	---	---	---	15.14	≤23.08	PASS

IMO									
11AC20M IMO	Ant0	5220	---	11.93	97.06	0.13	12.06	≤23.98	PASS
11AC20M IMO	Ant1	5220	---	11.85	94.29	0.26	12.11	≤23.98	PASS
11AC20M IMO	total	5220	---	---	---	---	15.1	≤23.08	PASS
11AC20M IMO	Ant0	5240	---	11.75	97.06	0.13	11.88	≤23.98	PASS
11AC20M IMO	Ant1	5240	---	11.74	97.06	0.13	11.87	≤23.98	PASS
11AC20M IMO	total	5240	---	---	---	---	14.89	≤23.08	PASS
11AC20M IMO	Ant0	5745	---	12.24	94.12	0.26	12.5	≤30.00	PASS
11AC20M IMO	Ant1	5745	---	12.3	97.06	0.13	12.43	≤30.00	PASS
11AC20M IMO	total	5745	---	---	---	---	15.48	≤28.49	PASS
11AC20M IMO	Ant0	5785	---	12.2	97.06	0.13	12.33	≤30.00	PASS
11AC20M IMO	Ant1	5785	---	12.14	94.29	0.26	12.4	≤30.00	PASS
11AC20M IMO	total	5785	---	---	---	---	15.38	≤28.49	PASS
11AC20M IMO	Ant0	5825	---	11.9	94.29	0.26	12.16	≤30.00	PASS
11AC20M IMO	Ant1	5825	---	11.91	97.06	0.13	12.04	≤30.00	PASS
11AC20M IMO	total	5825	---	---	---	---	15.11	≤28.49	PASS
11AC40M IMO	Ant0	5190	---	12.4	90	0.46	12.86	≤23.98	PASS
11AC40M IMO	Ant1	5190	---	12.32	94.74	0.23	12.55	≤23.98	PASS
11AC40M IMO	total	5190	---	---	---	---	15.72	≤23.08	PASS
11AC40M IMO	Ant0	5230	---	12.36	94.74	0.23	12.59	≤23.98	PASS
11AC40M IMO	Ant1	5230	---	12.28	94.74	0.23	12.51	≤23.98	PASS
11AC40M IMO	total	5230	---	---	---	---	15.56	≤23.08	PASS

11AC40M IMO	Ant0	5755	---	12.39	90	0.46	12.85	≤30.00	PASS
11AC40M IMO	Ant1	5755	---	12.43	94.74	0.23	12.66	≤30.00	PASS
11AC40M IMO	total	5755	---	---	---	---	15.77	≤28.49	PASS
11AC40M IMO	Ant0	5795	---	12.25	94.74	0.23	12.48	≤30.00	PASS
11AC40M IMO	Ant1	5795	---	12.17	94.74	0.23	12.4	≤30.00	PASS
11AC40M IMO	total	5795	---	---	---	---	15.45	≤28.49	PASS
11AC80M IMO	Ant0	5210	---	12.25	83.33	0.79	13.04	≤23.98	PASS
11AC80M IMO	Ant1	5210	---	12.24	91.67	0.38	12.62	≤23.98	PASS
11AC80M IMO	total	5210	---	---	---	---	15.85	≤23.08	PASS
11AC80M IMO	Ant0	5775	---	11.89	91.67	0.38	12.27	≤30.00	PASS
11AC80M IMO	Ant1	5775	---	11.95	91.67	0.38	12.33	≤30.00	PASS
11AC80M IMO	total	5775	---	---	---	---	15.31	≤28.49	PASS

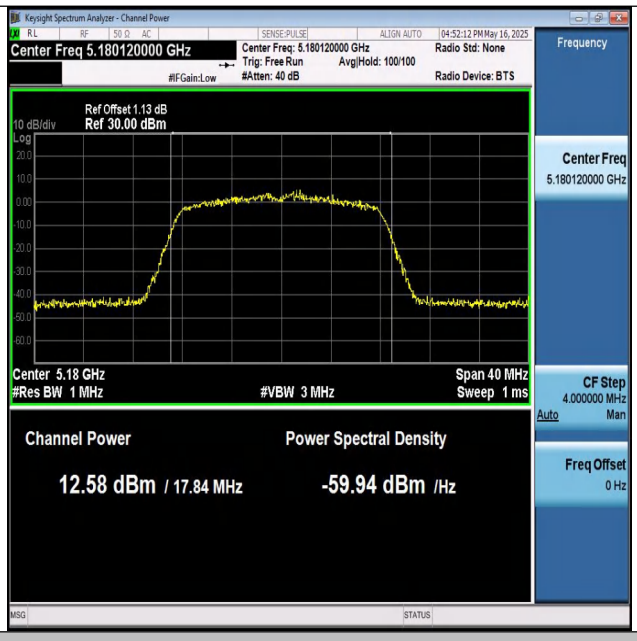
Note：1.The Duty Cycle Factor and cable loss are compensated in the graph.

2. B1: As Directional gain = 10 log[(10G1/20 + 10G2/20) 2 /NANT] dBi=6.9>6dBi, so limit=23.98-(6.9-6.00)=23.08dBm.

B4: As Directional gain = 10 log[(10G1/20 + 10G2/20) 2 /NANT] dBi=7.51>6dBi, so limit=30-(7.51-6.00)=28.49dBm.

3.MIMO= 10*LOG((10^Ant0/10)+10^(Ant1/10))

Test Graphs Channel Power



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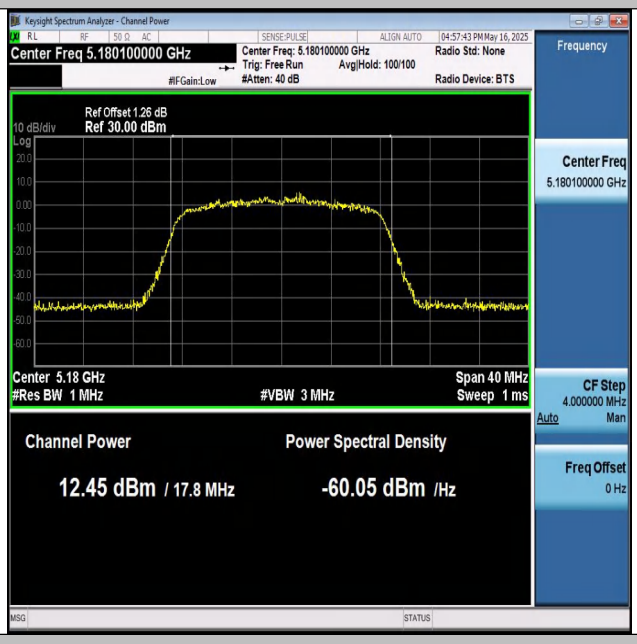

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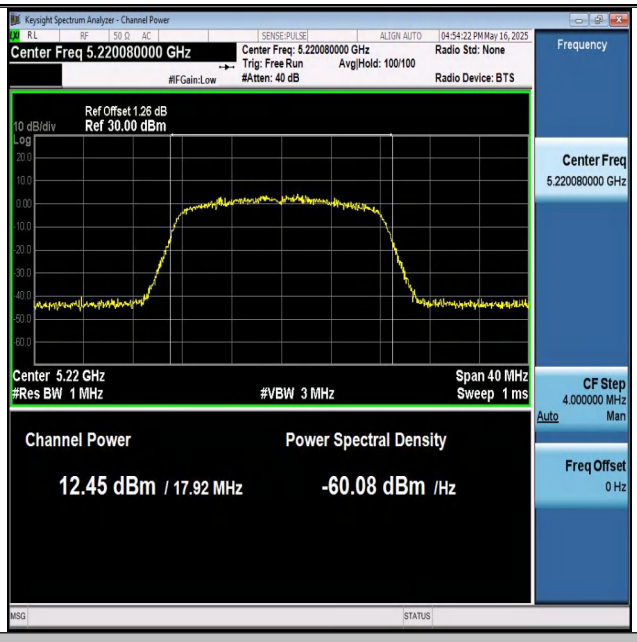

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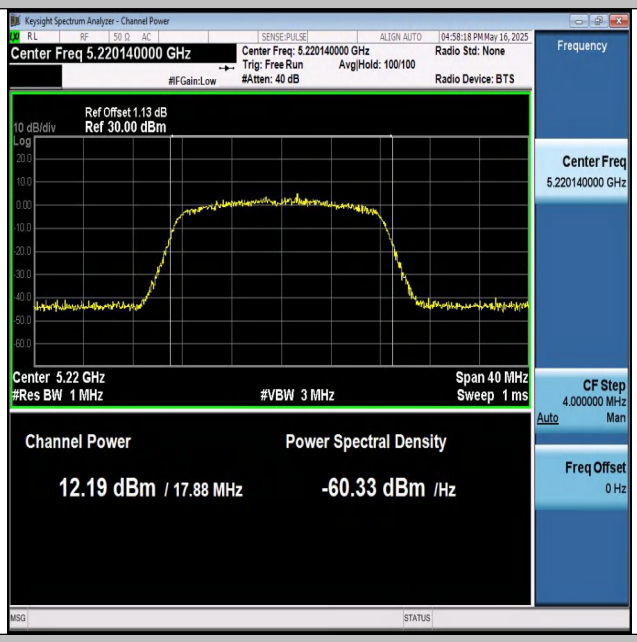

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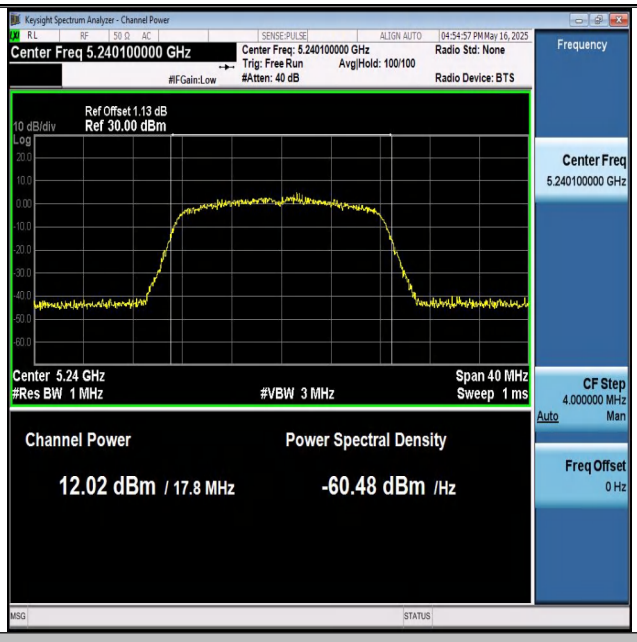

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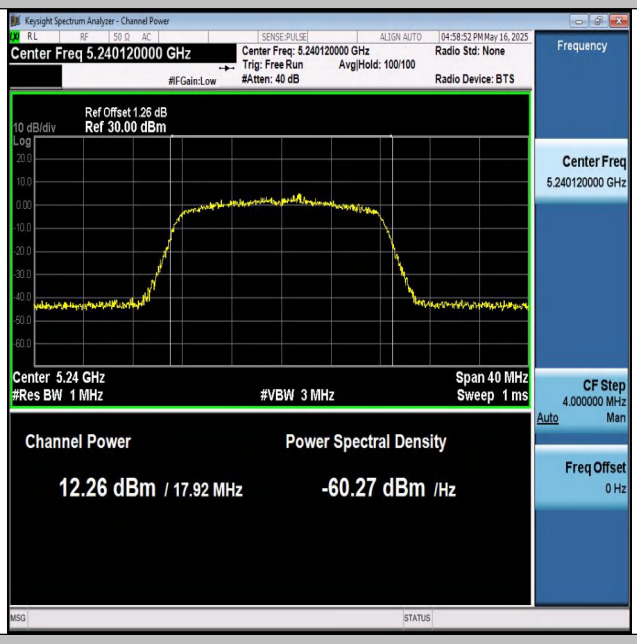

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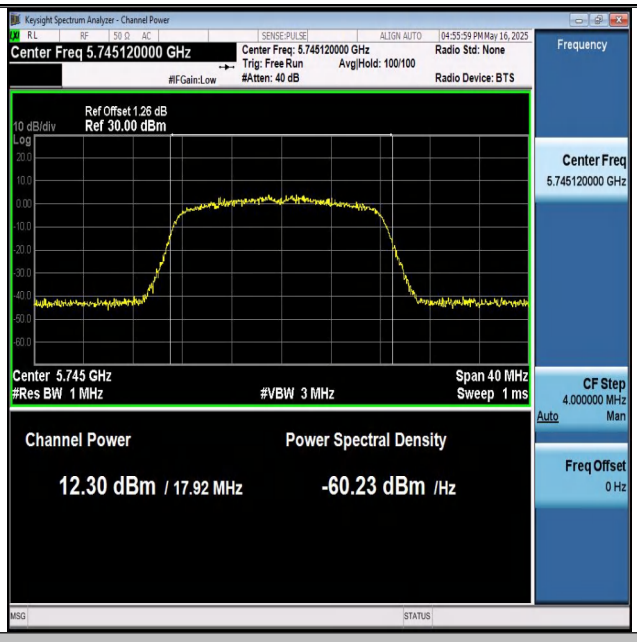

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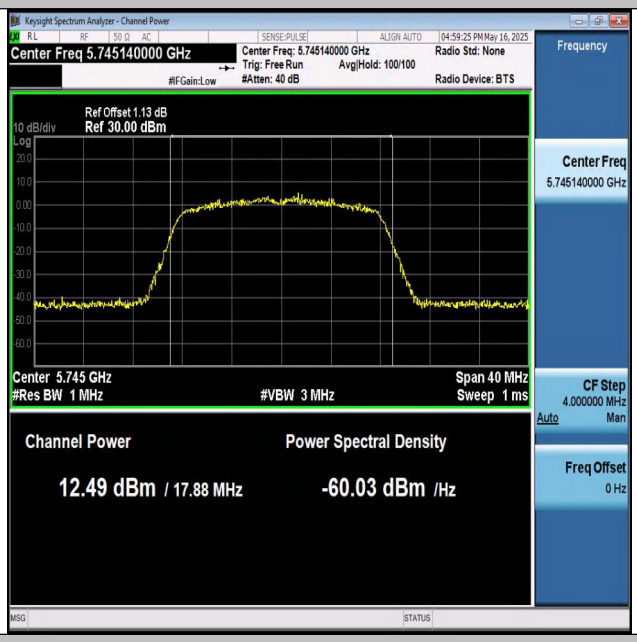

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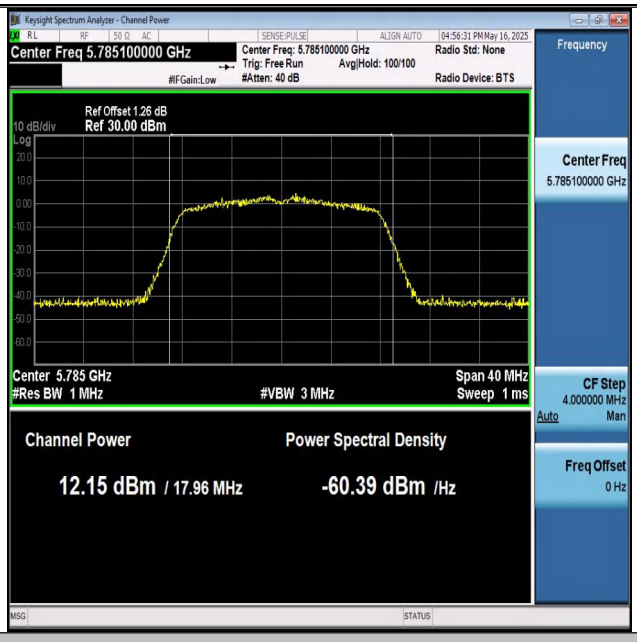

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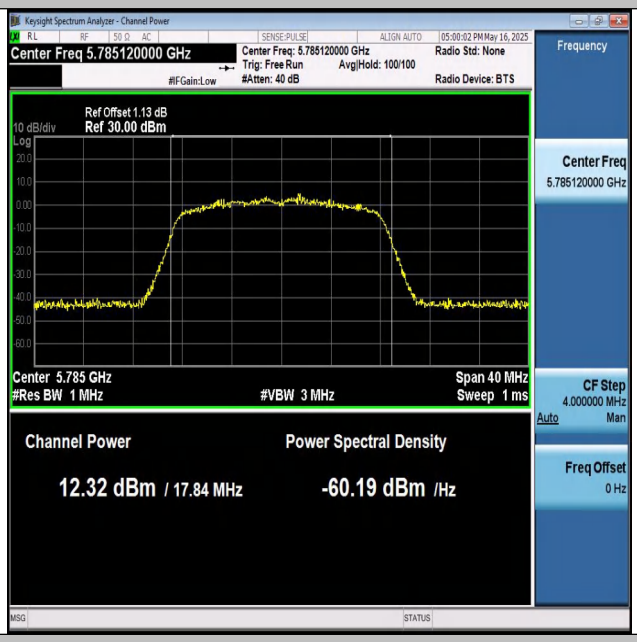

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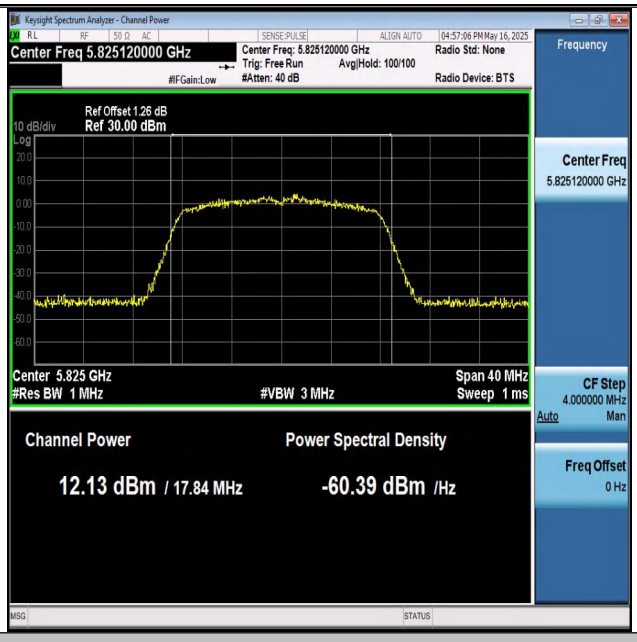

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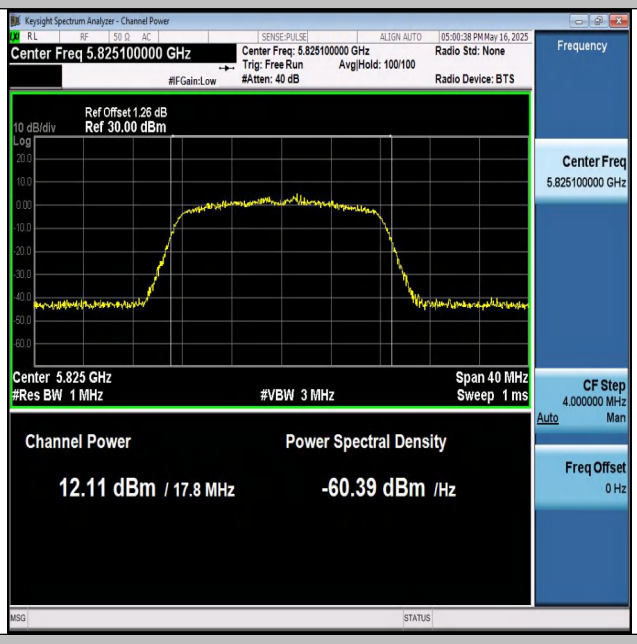

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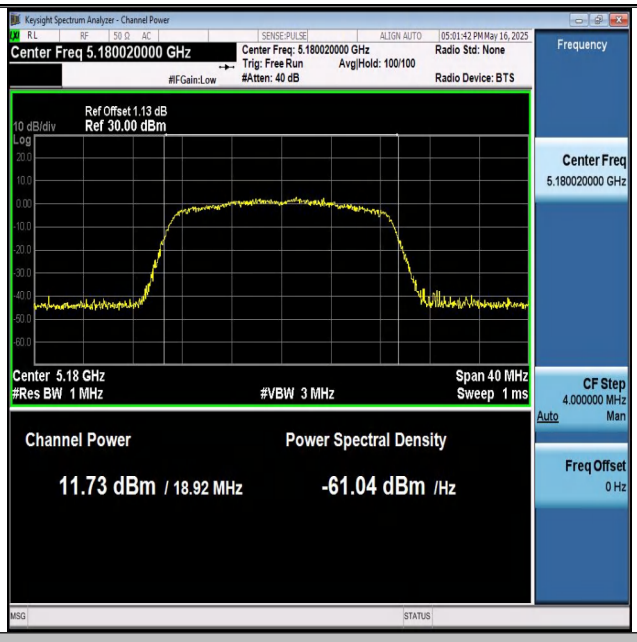

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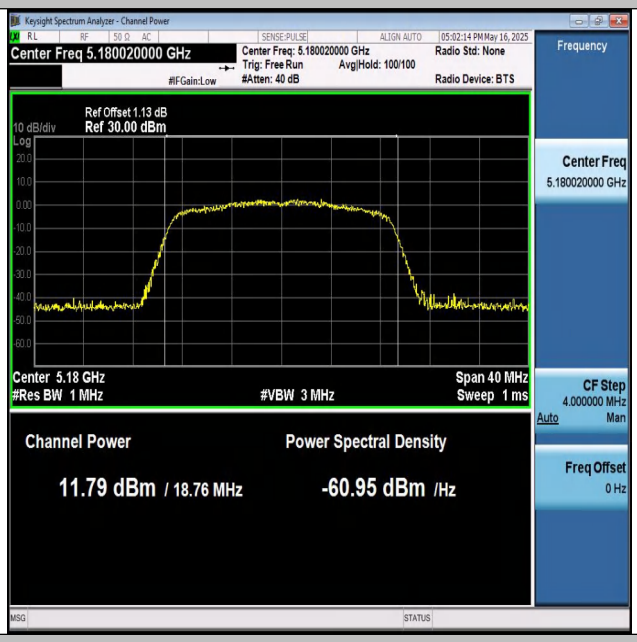

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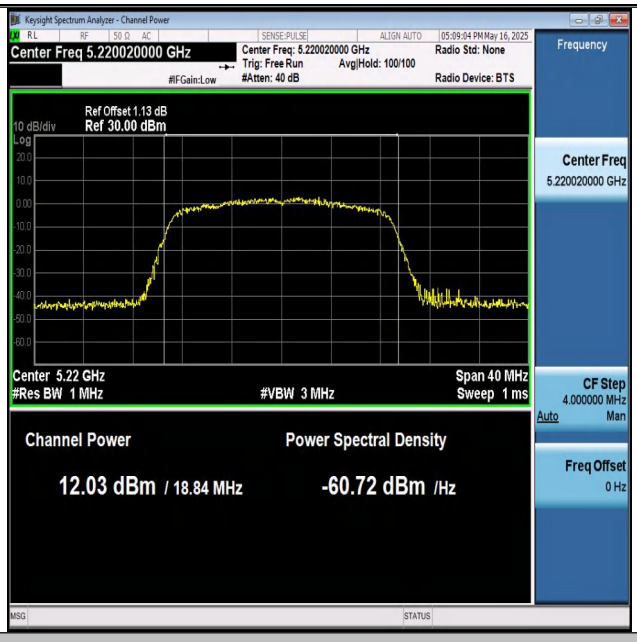

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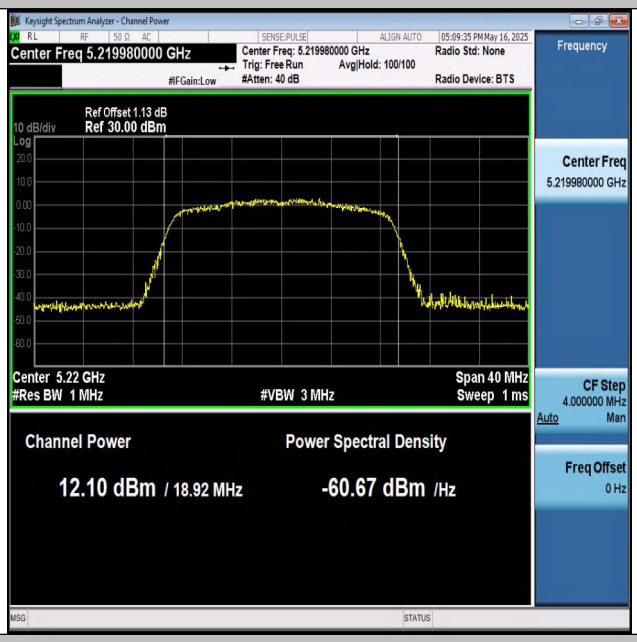

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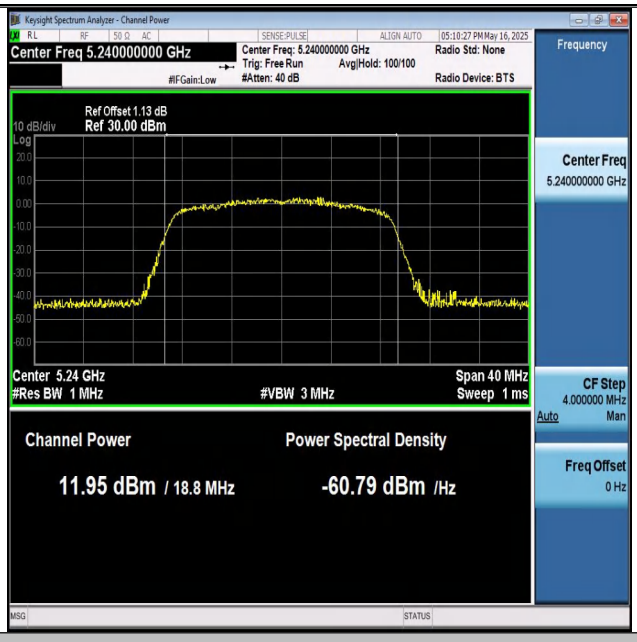

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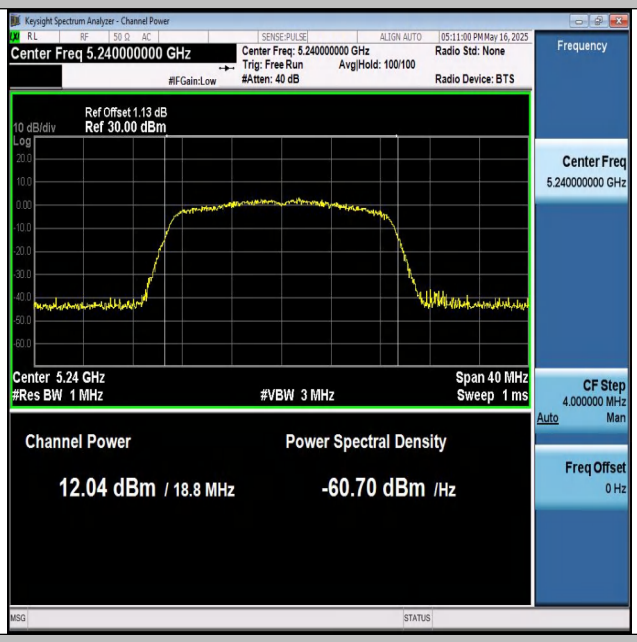

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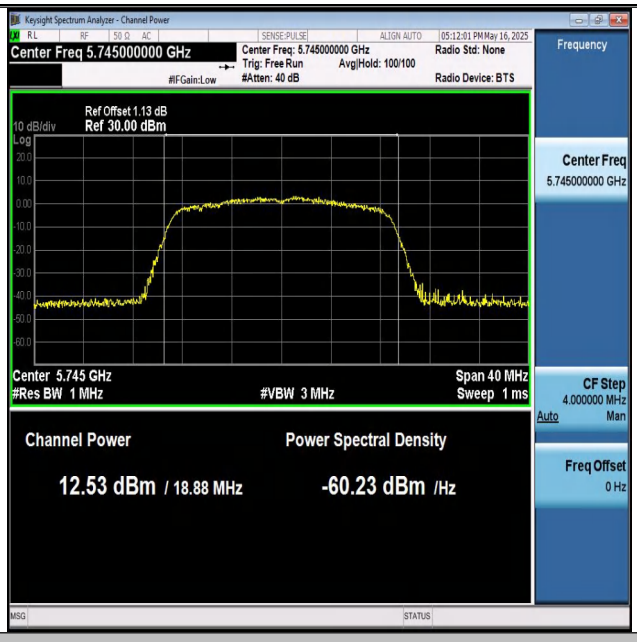

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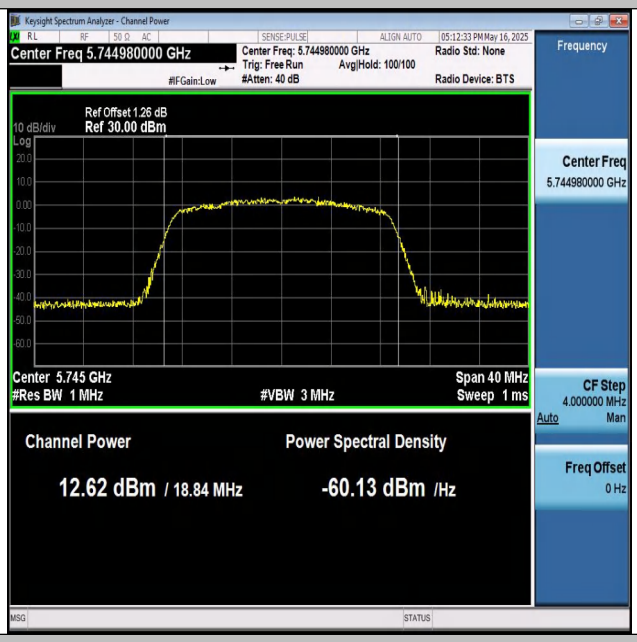

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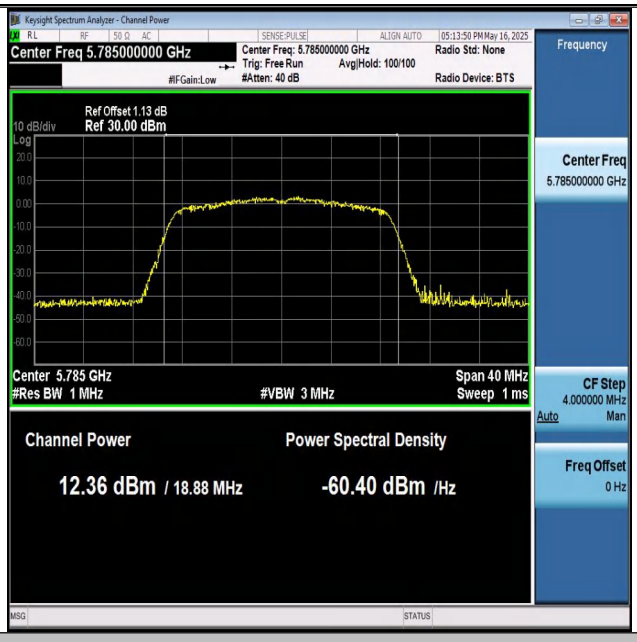
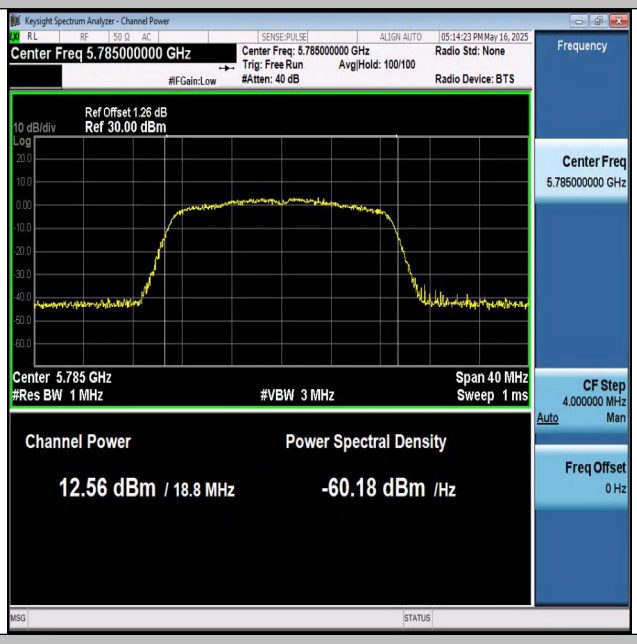


11N20MIMO-Ant0-5785-PASS



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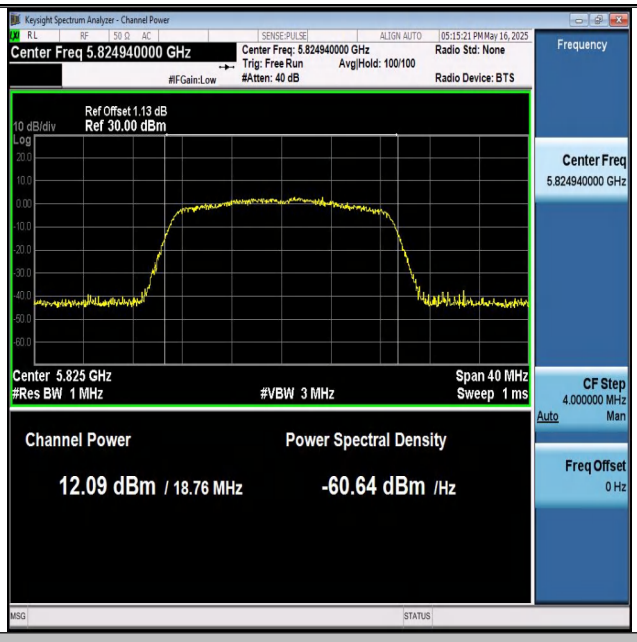

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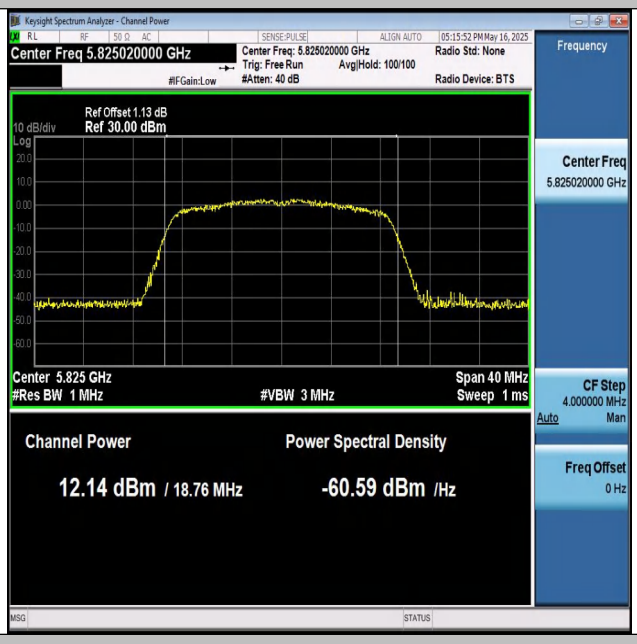

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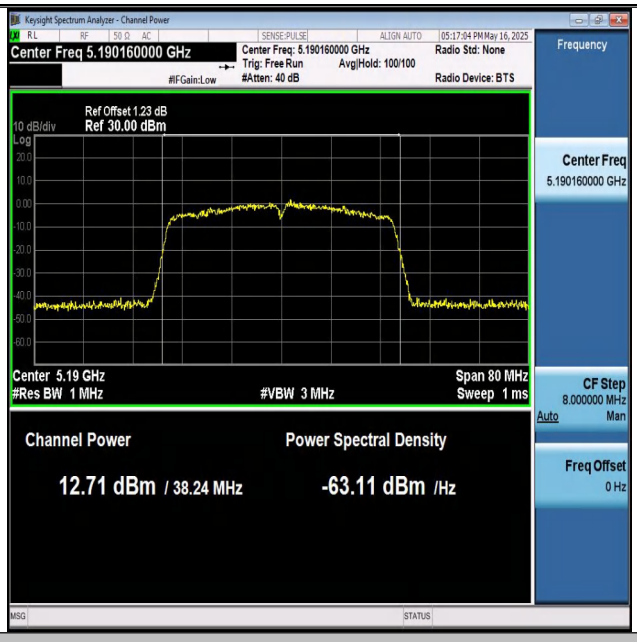

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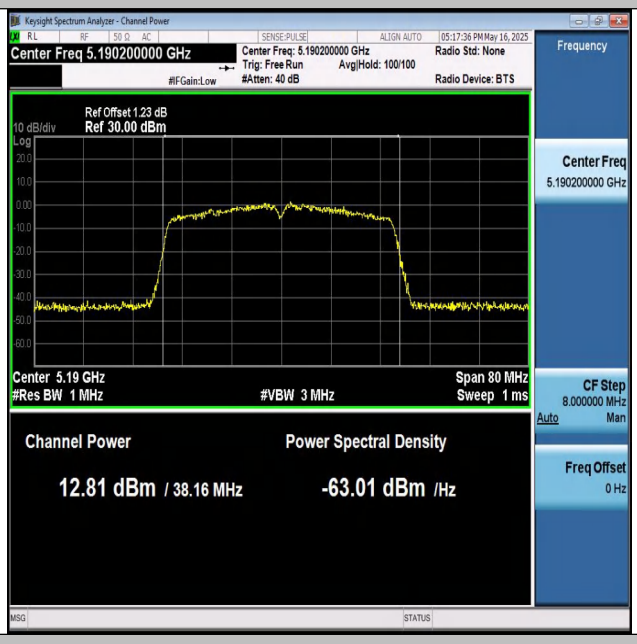
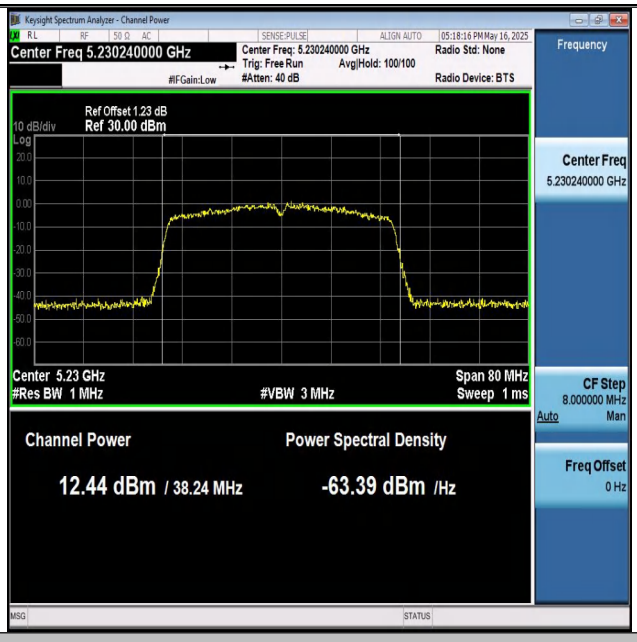
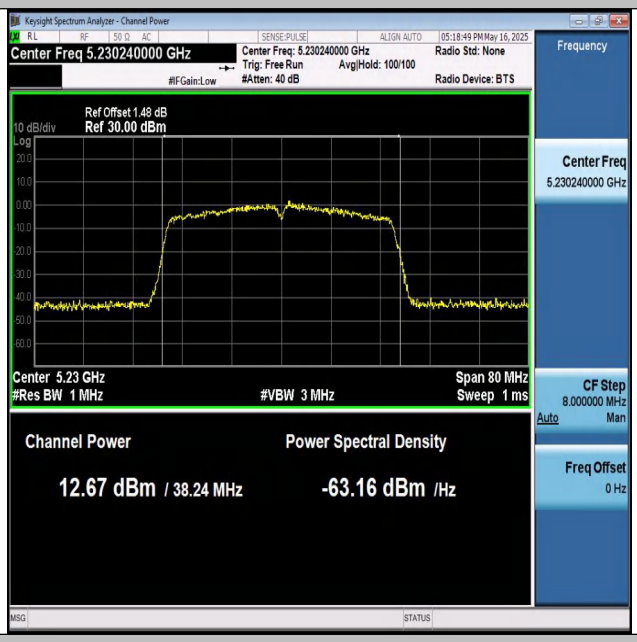


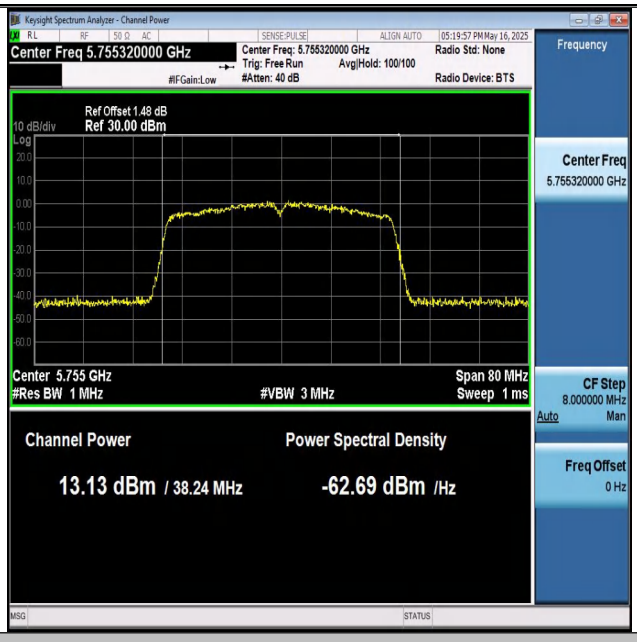
11N40MIMO-Ant1-5190-PASS



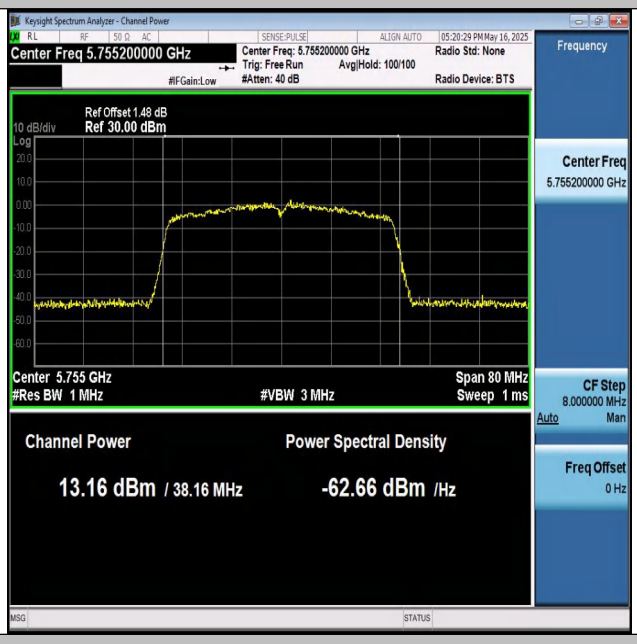
11N40MIMO-Ant0-5230-PASS



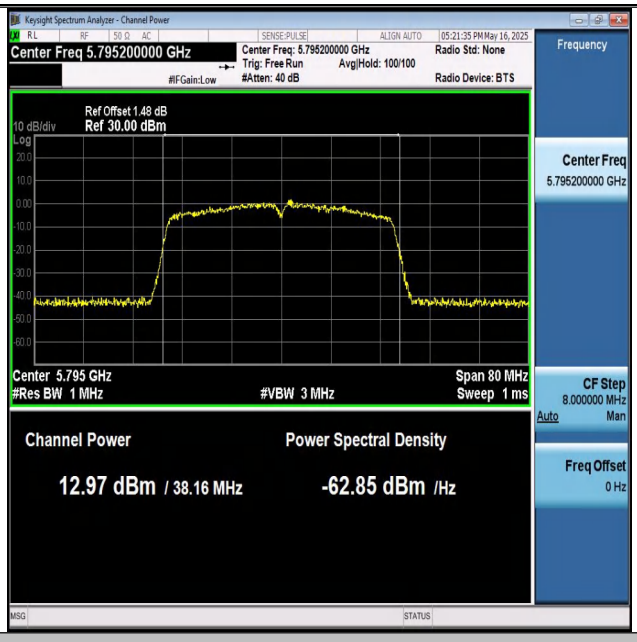
11N40MIMO-Ant1-5230-PASS



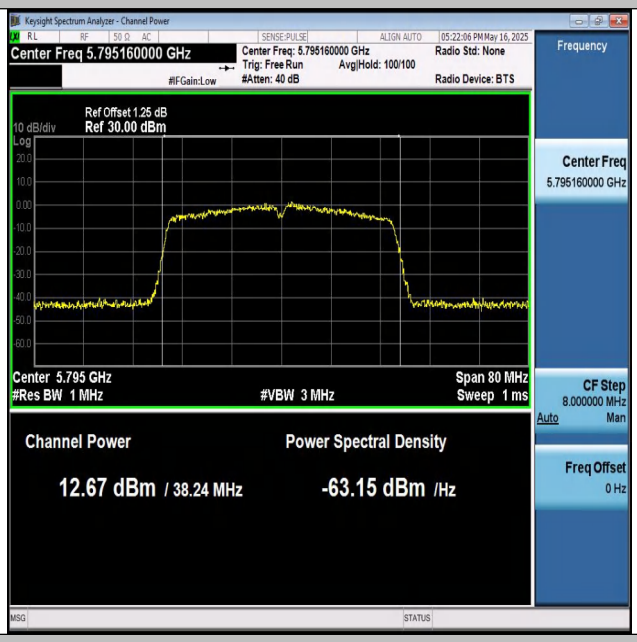
11N40MIMO-Ant0-5755-PASS



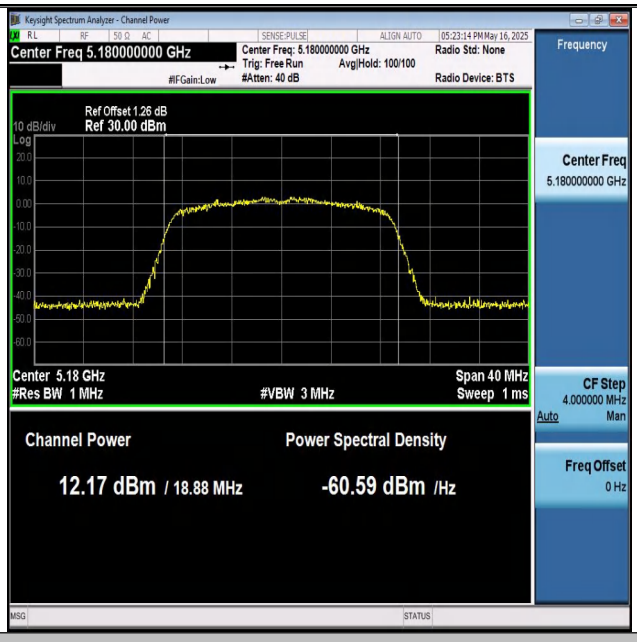
11N40MIMO-Ant1-5755-PASS



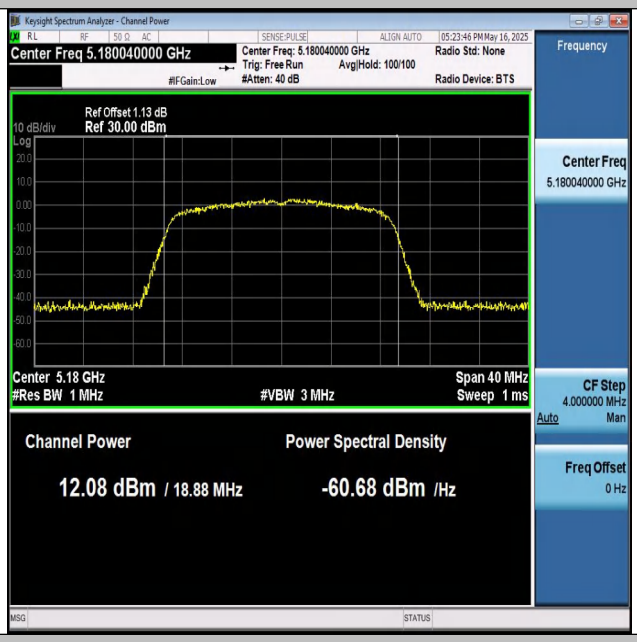
11N40MIMO-Ant0-5795-PASS



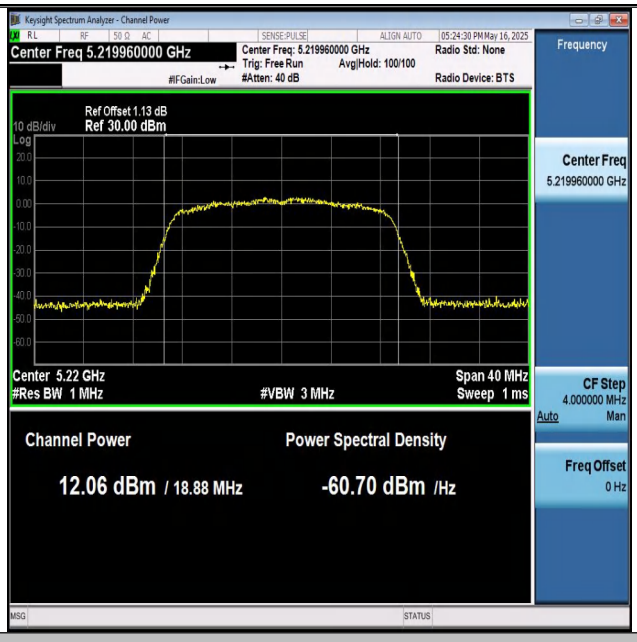
11N40MIMO-Ant1-5795-PASS



11AC20MIMO-Ant0-5180-PASS



11AC20MIMO-Ant1-5180-PASS



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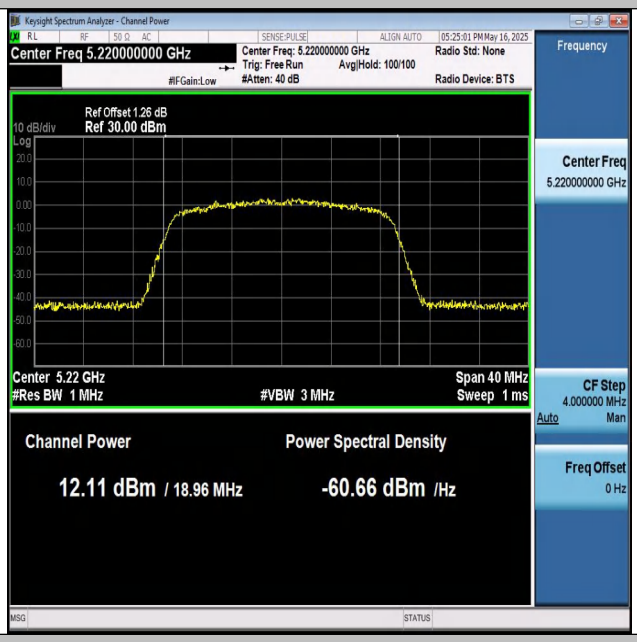
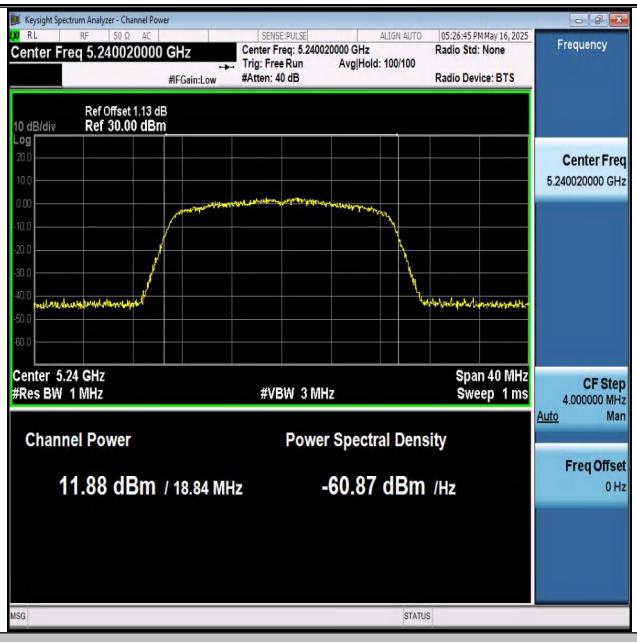
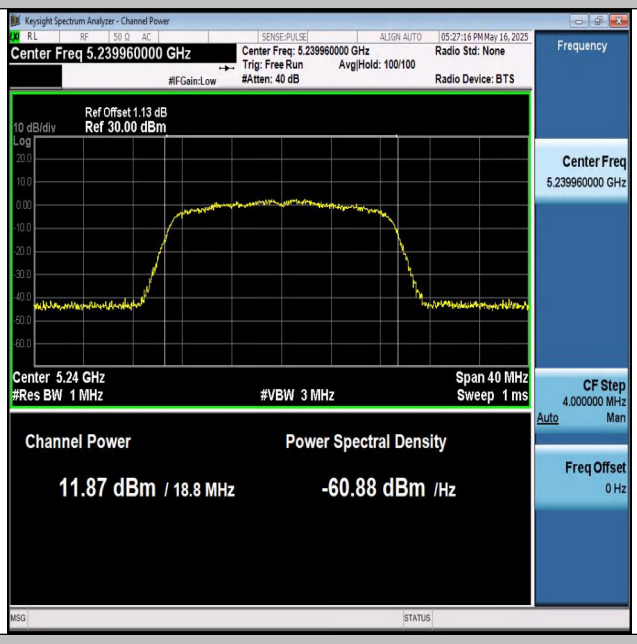


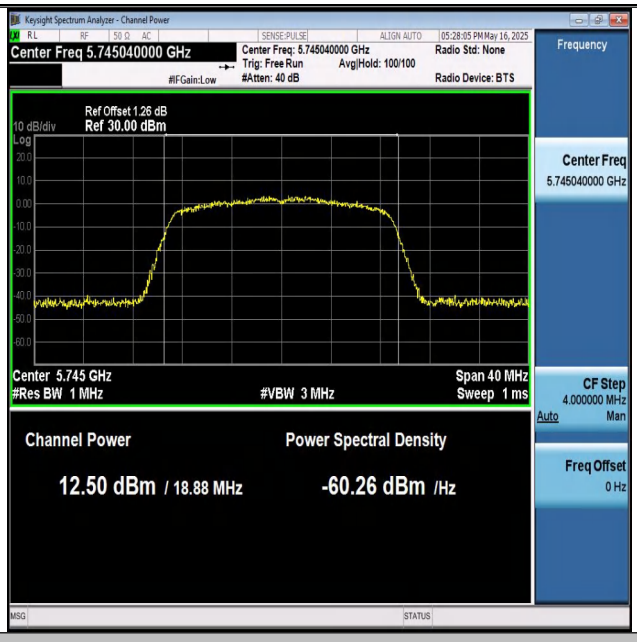
11AC20MIMO-Ant1-5220-PASS



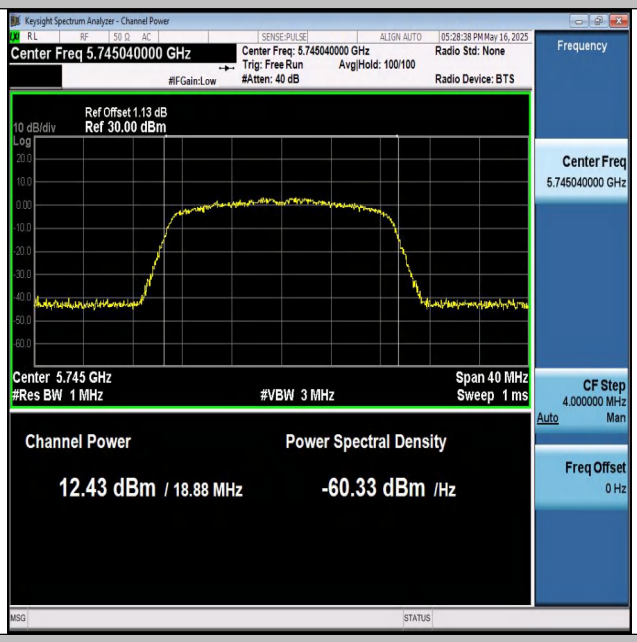
11AC20MIMO-Ant0-5240-PASS



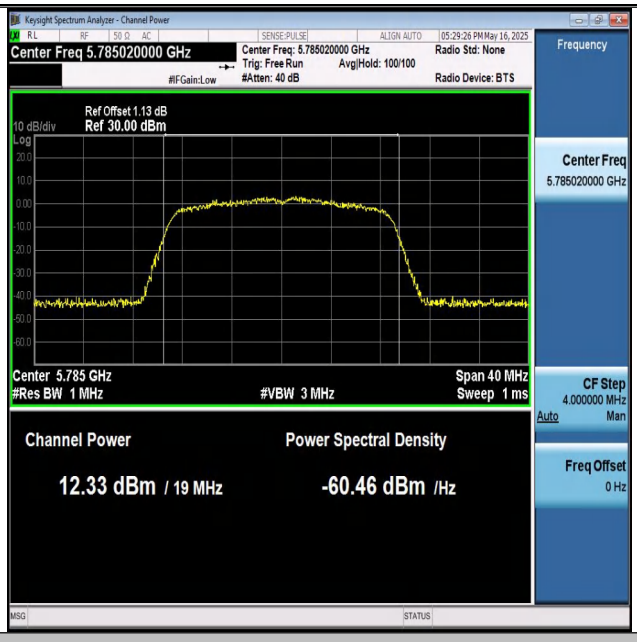
11AC20MIMO-Ant1-5240-PASS



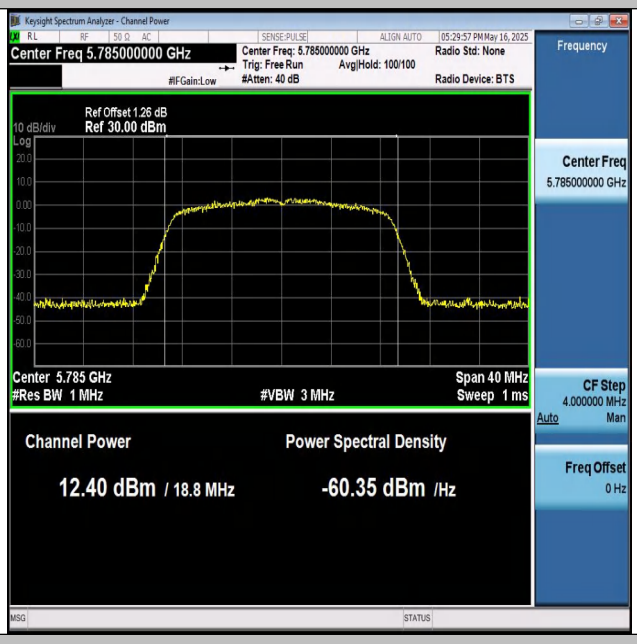
11AC20MIMO-Ant0-5745-PASS



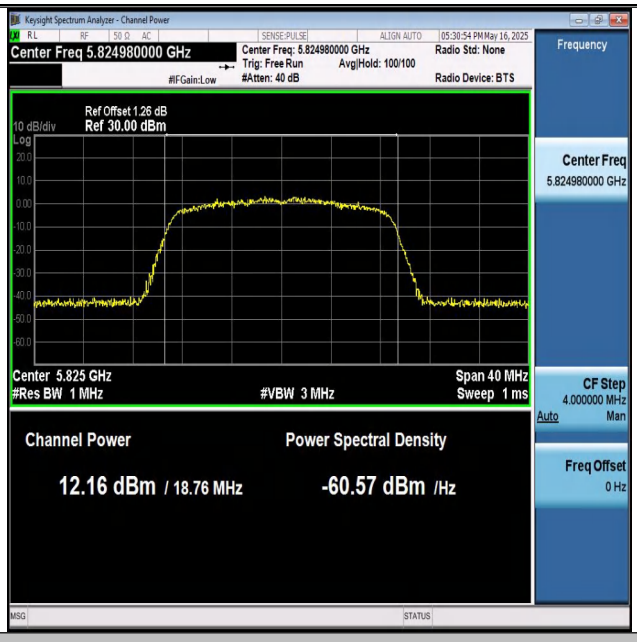
11AC20MIMO-Ant1-5745-PASS



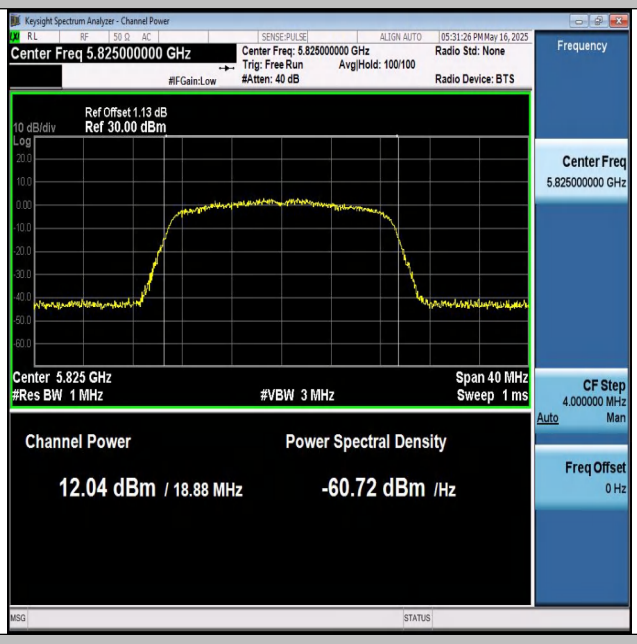
11AC20MIMO-Ant0-5785-PASS



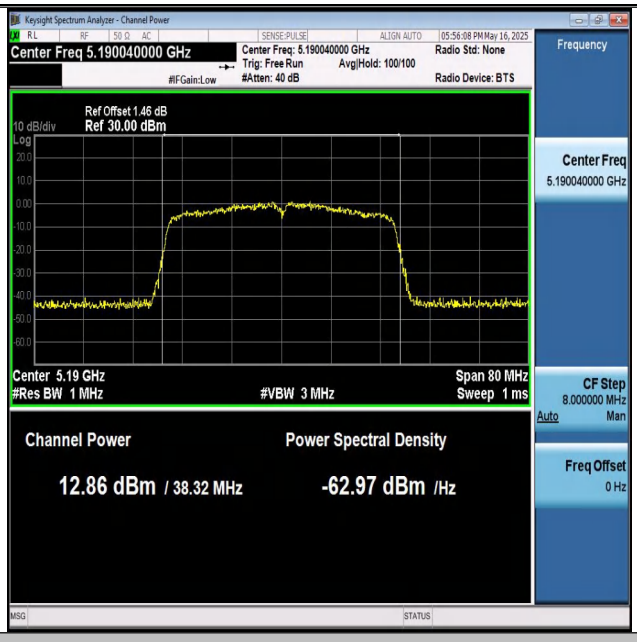
11AC20MIMO-Ant1-5785-PASS



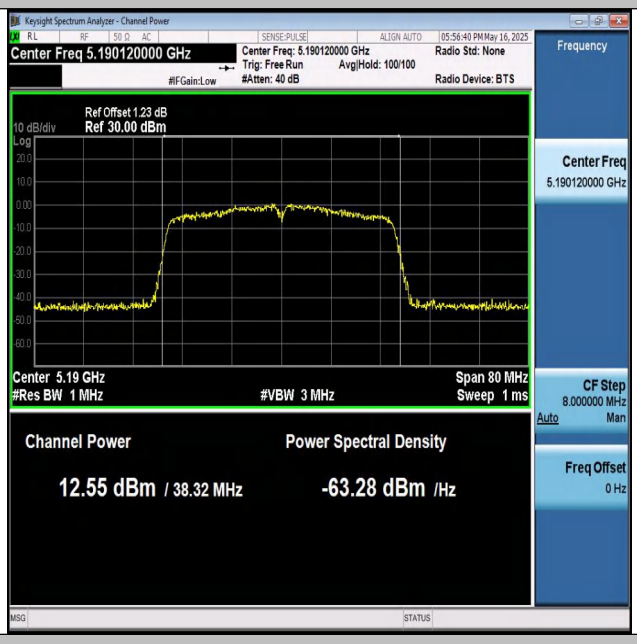
11AC20MIMO-Ant0-5825-PASS



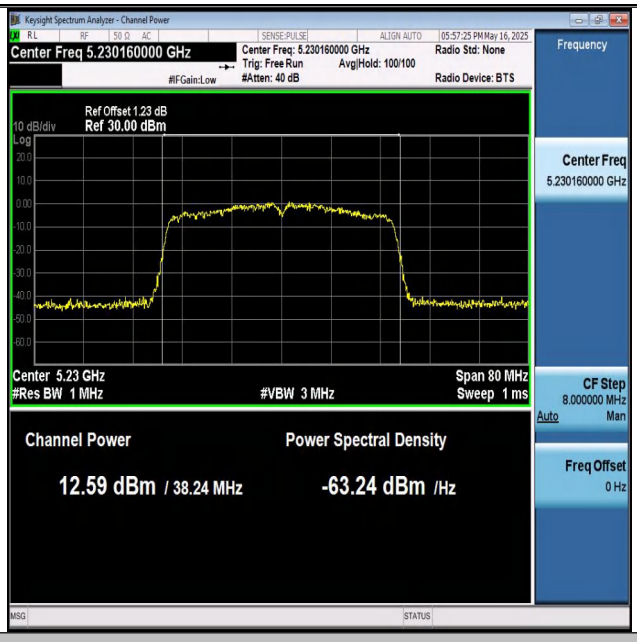
11AC20MIMO-Ant1-5825-PASS



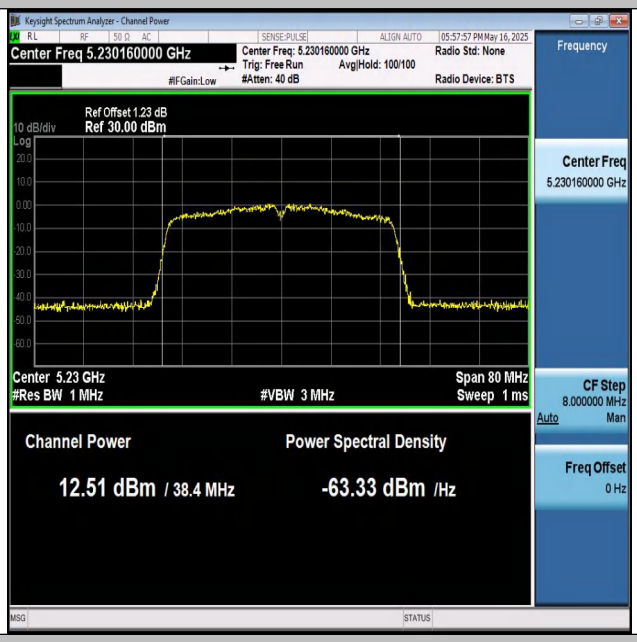
11AC40MIMO-Ant0-5190-PASS



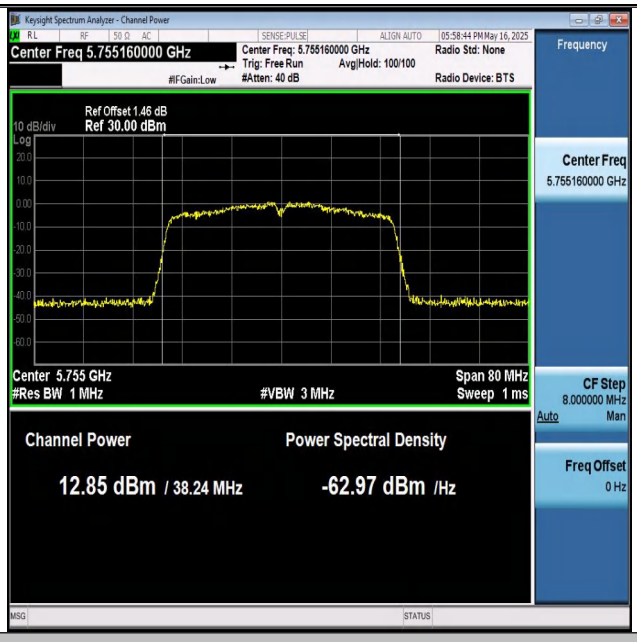
11AC40MIMO-Ant1-5190-PASS



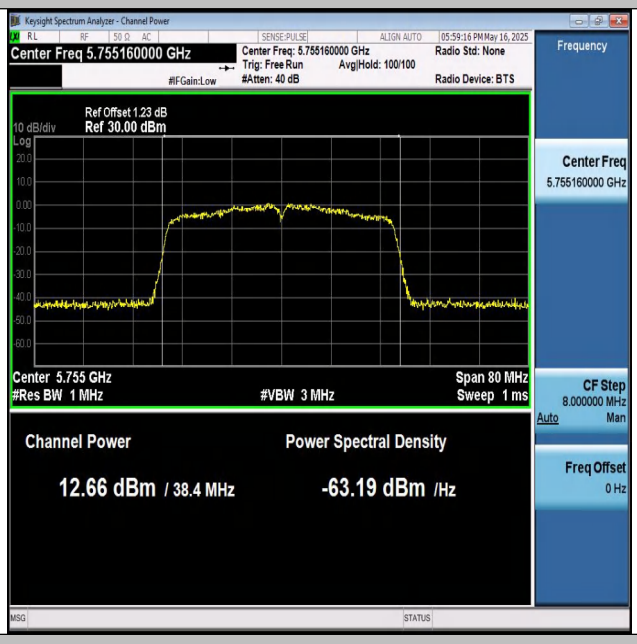
11AC40MIMO-Ant0-5230-PASS



11AC40MIMO-Ant1-5230-PASS



11AC40MIMO-Ant0-5755-PASS



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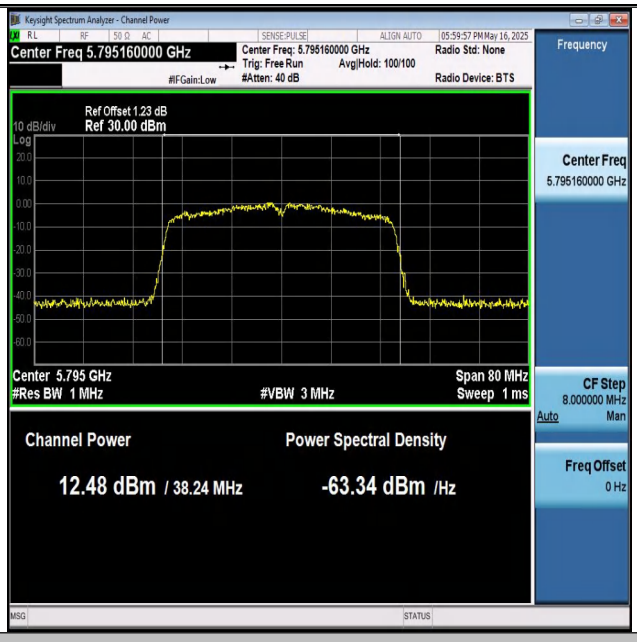
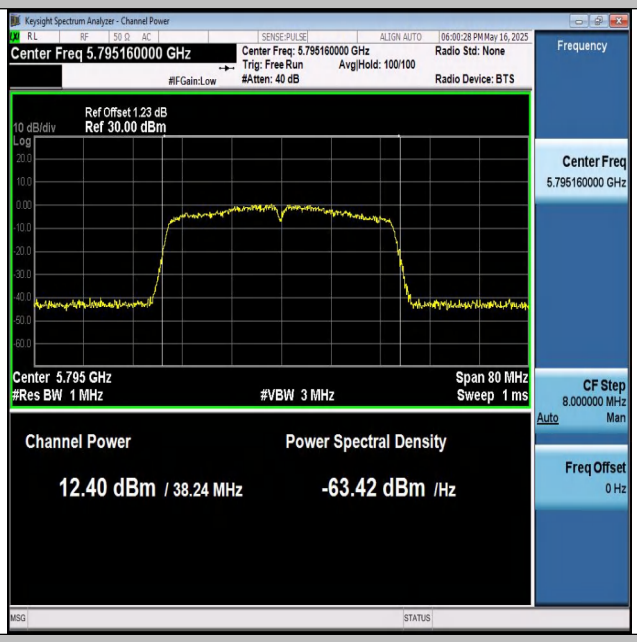


11AC40MIMO-Ant0-5795-PASS



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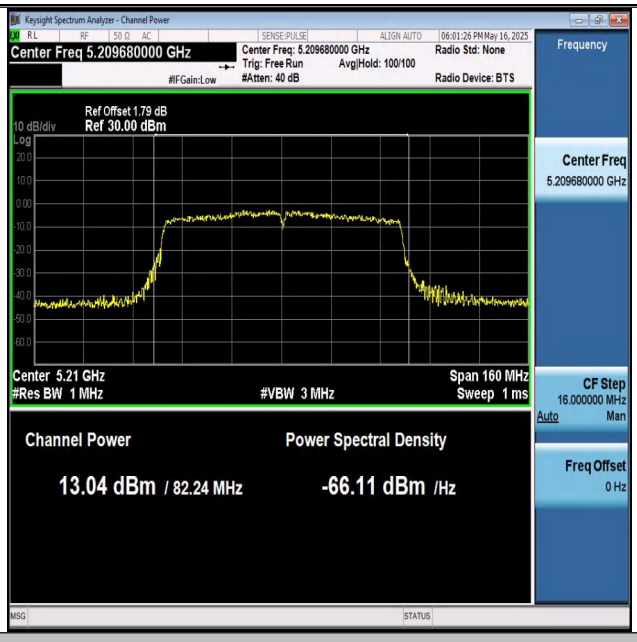
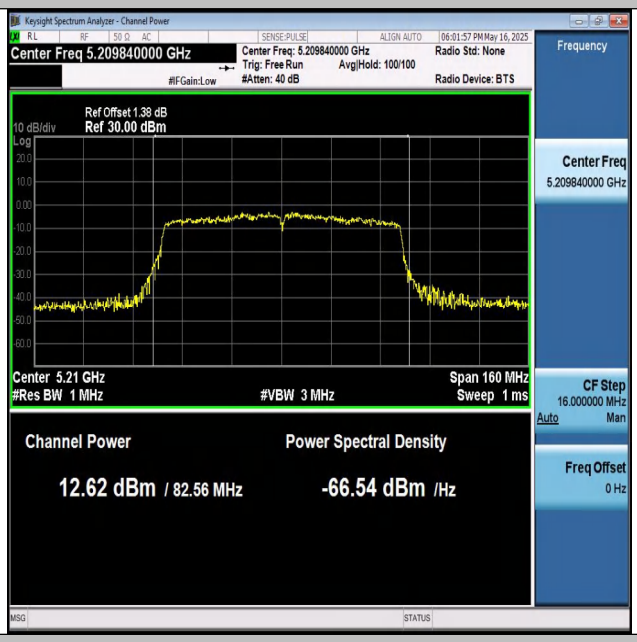


11AC80MIMO-Ant0-5210-PASS



11AC80MIMO-Ant1-5210-PASS