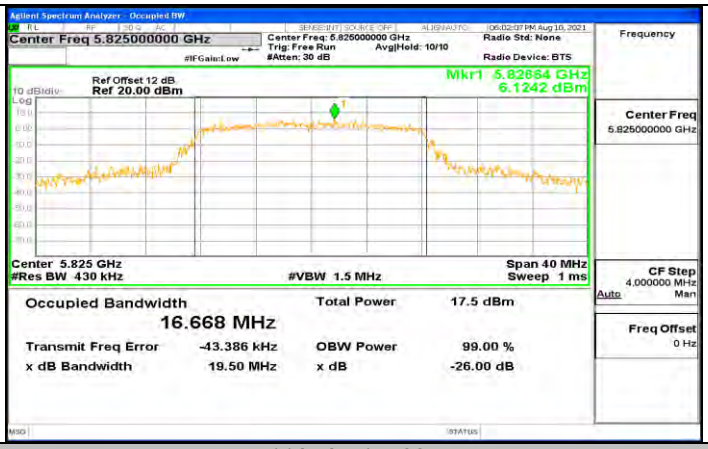

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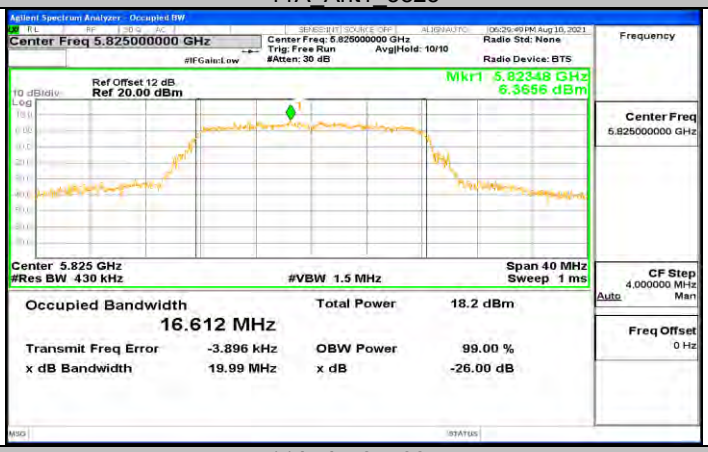

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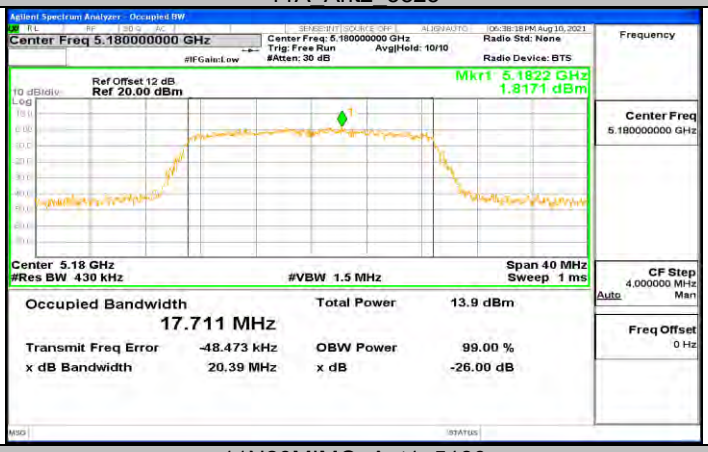

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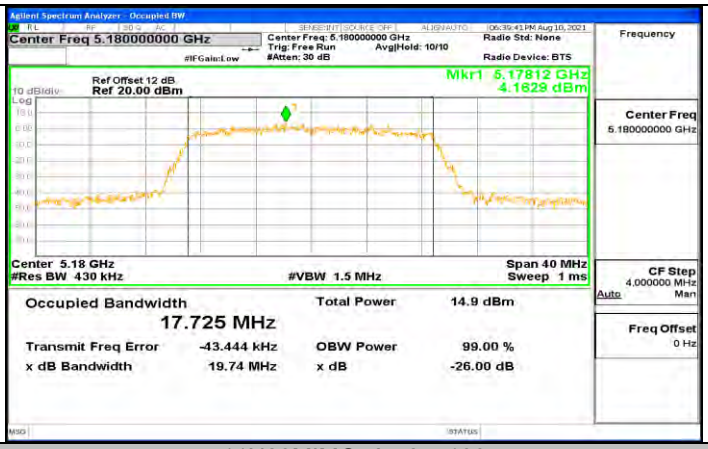

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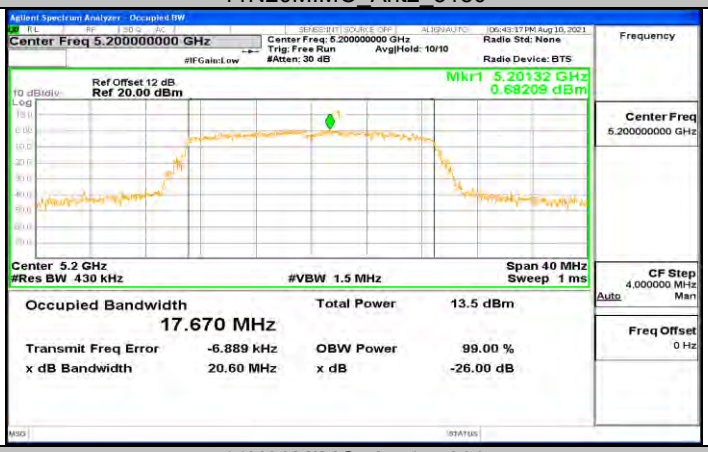

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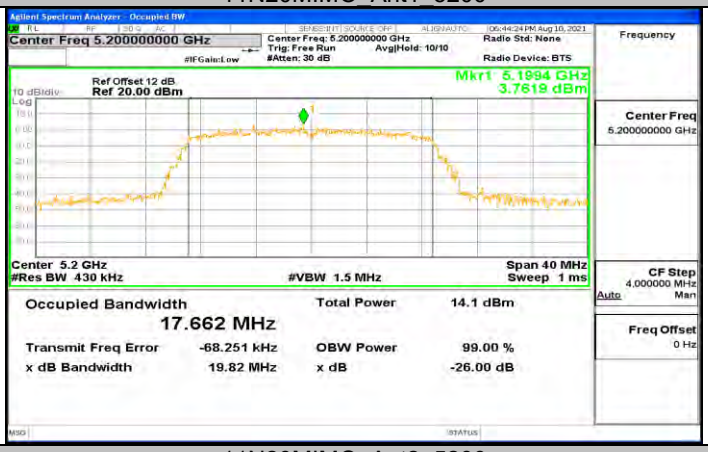

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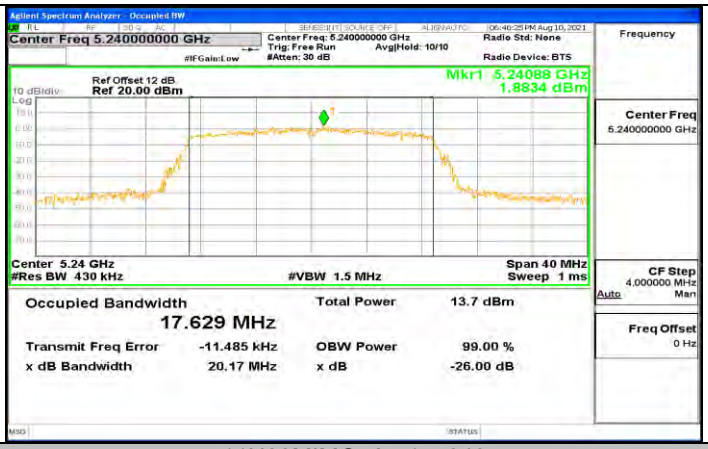

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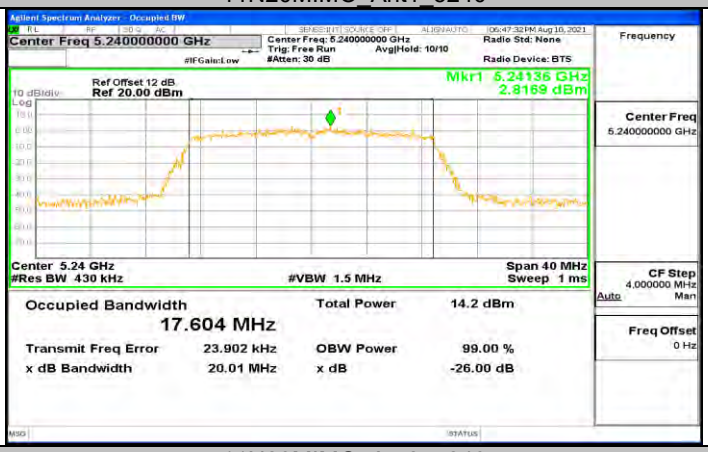

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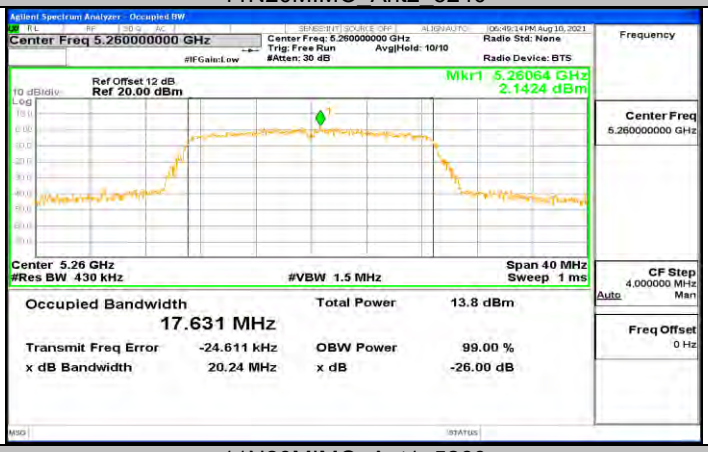

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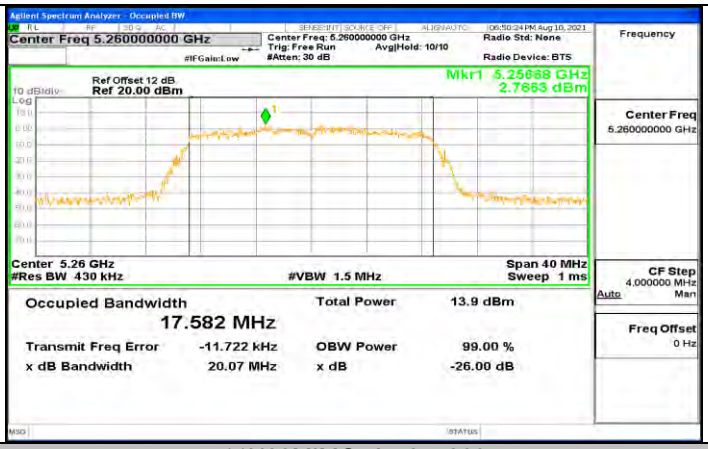

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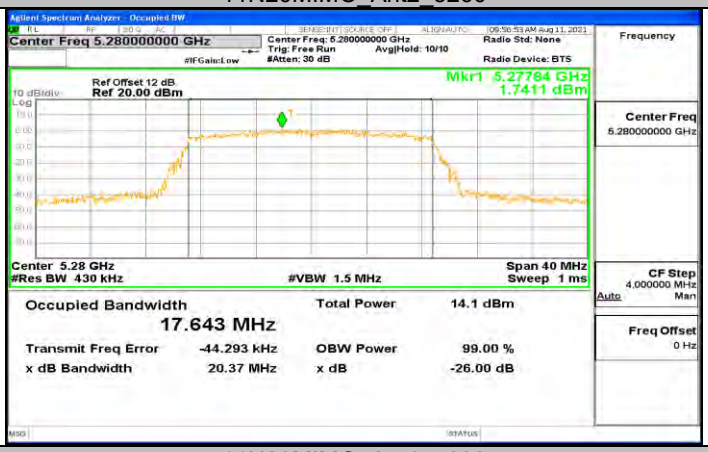

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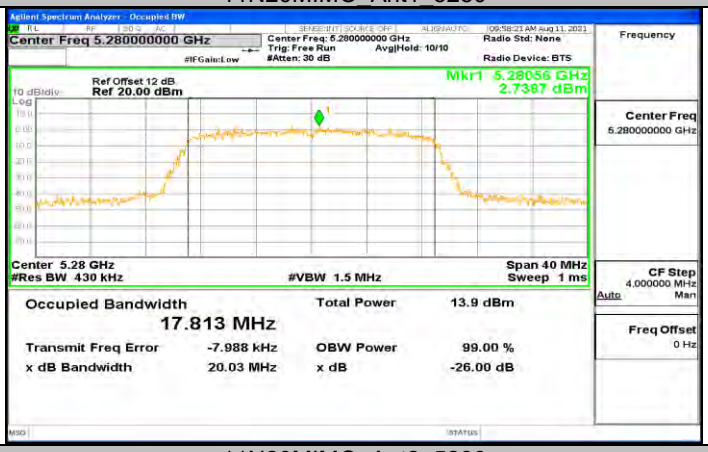

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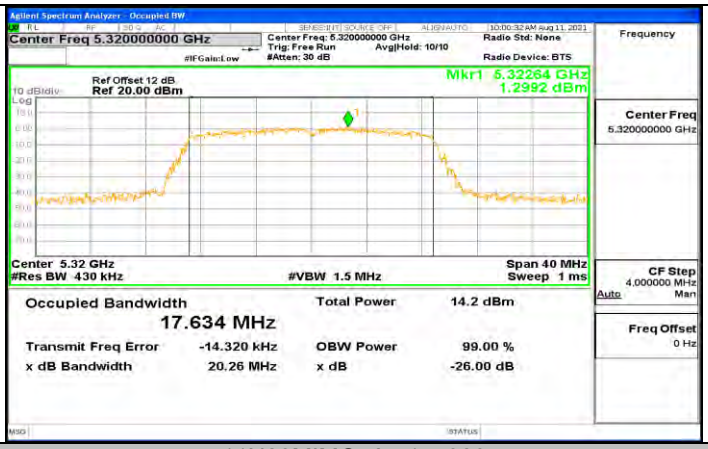

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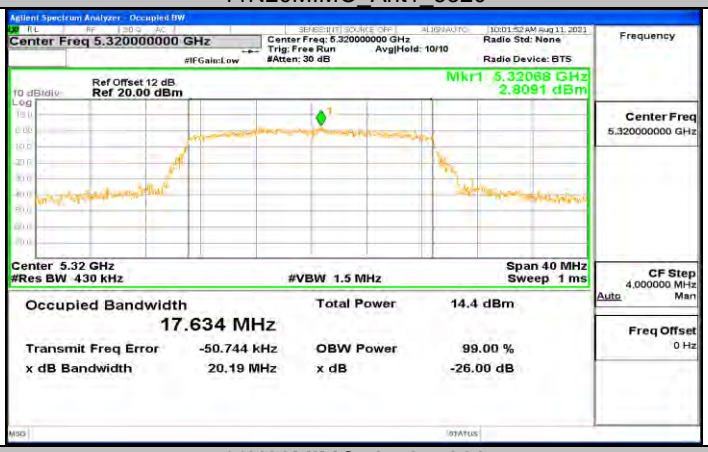

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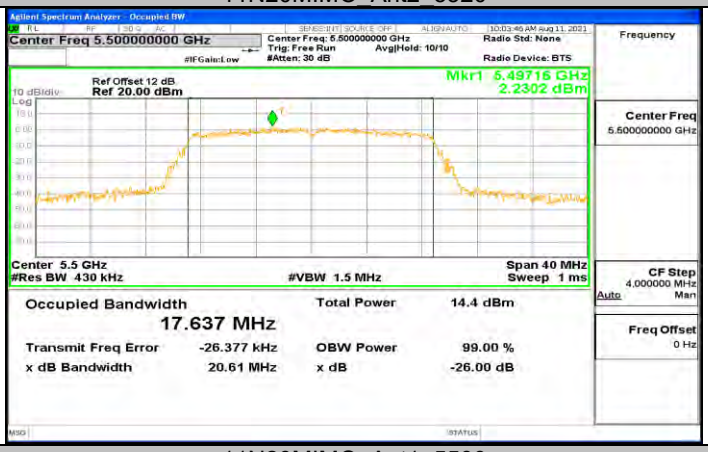

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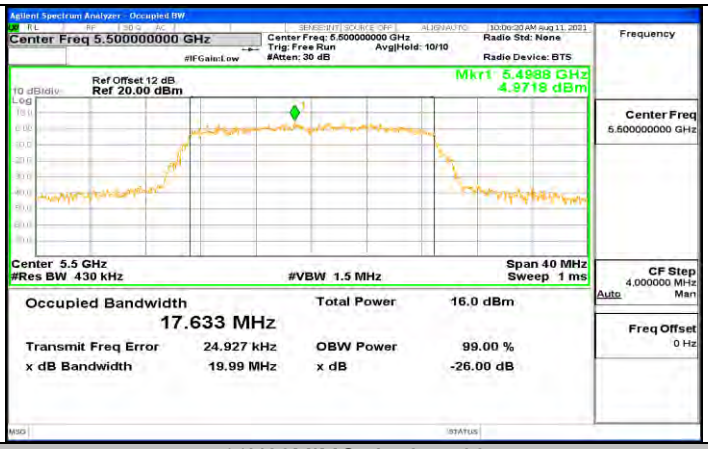

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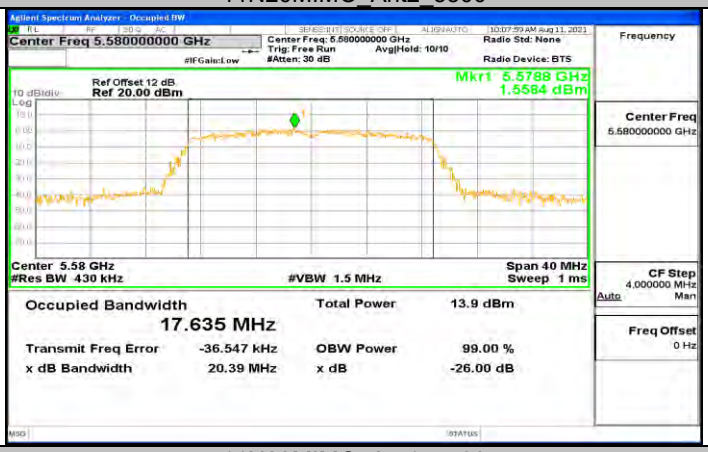

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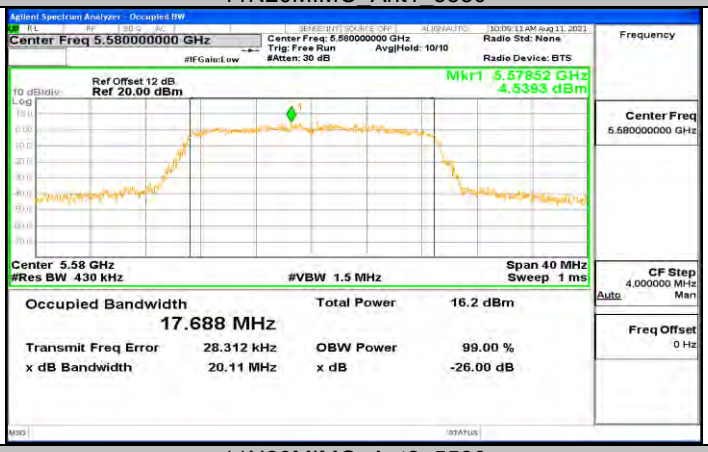

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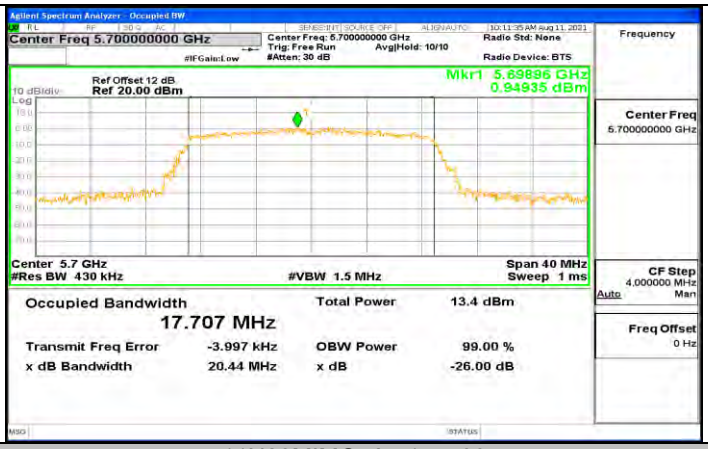

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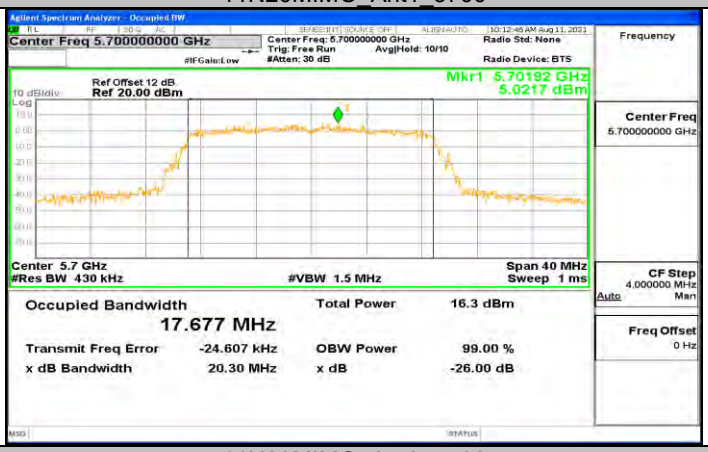

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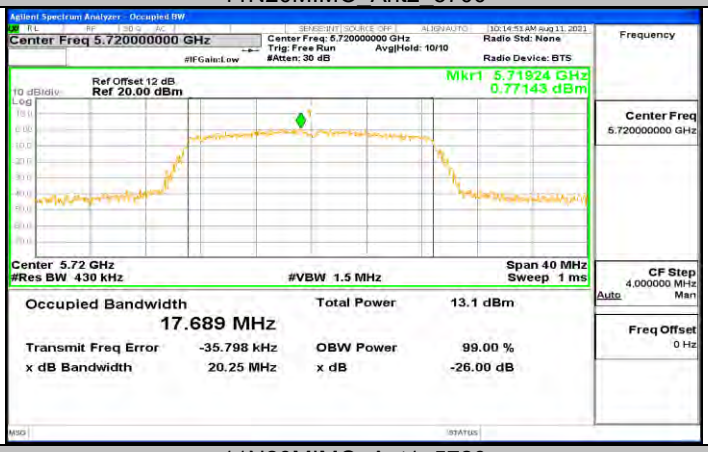

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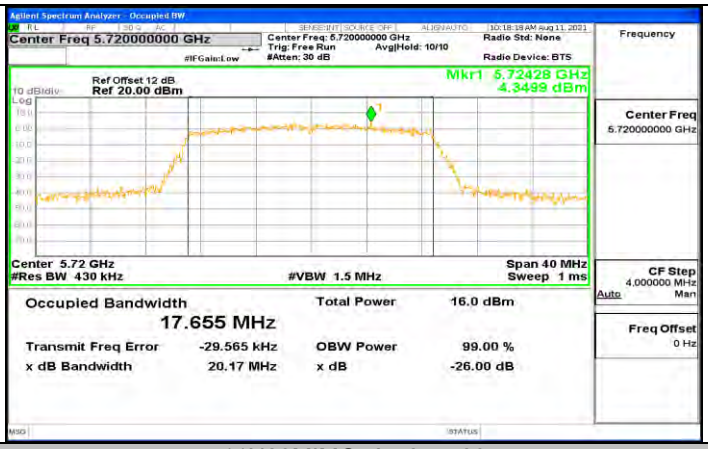

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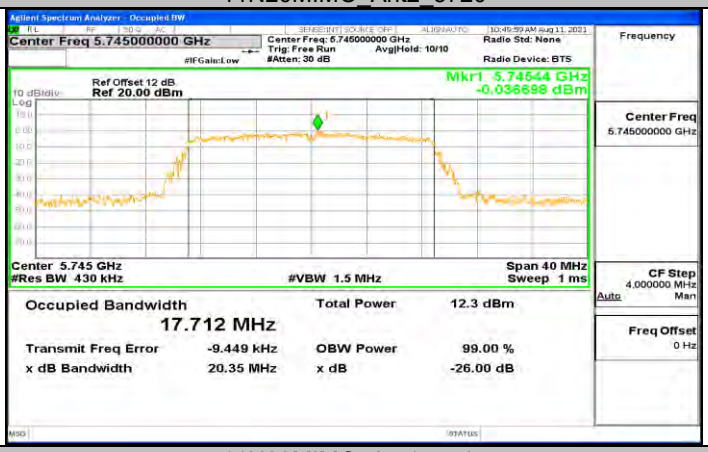

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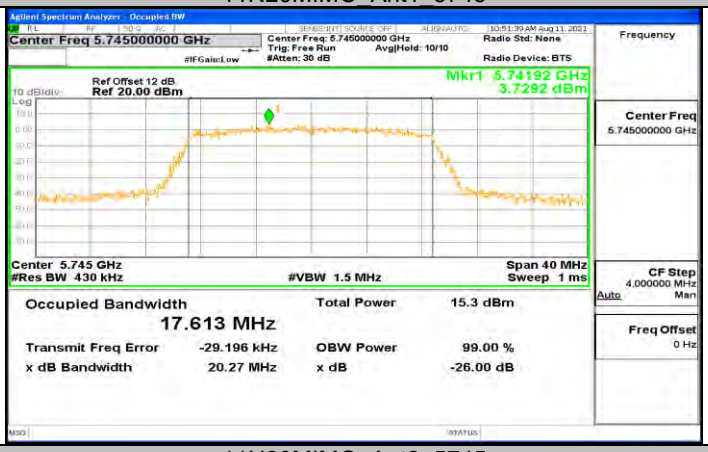

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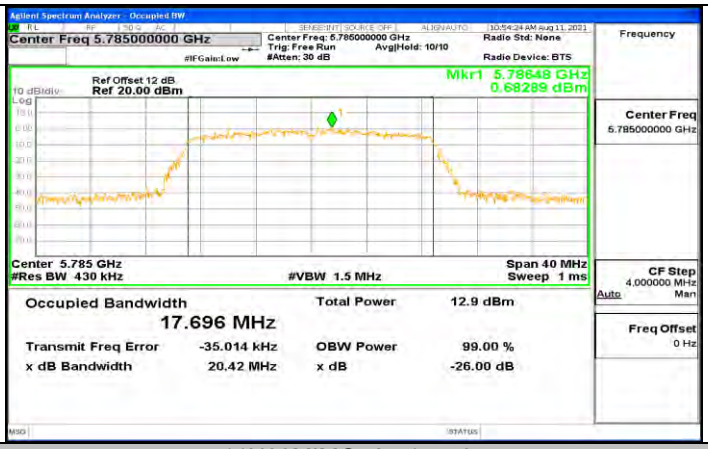

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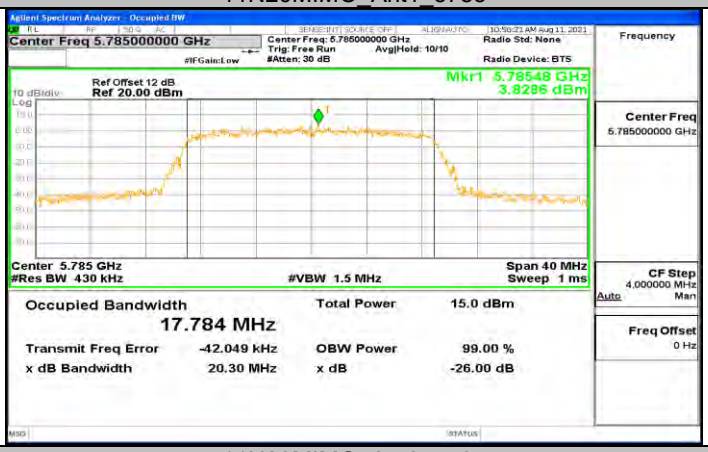

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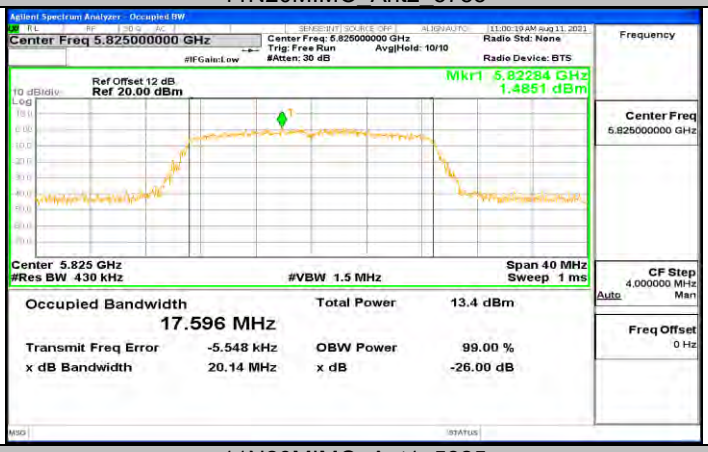

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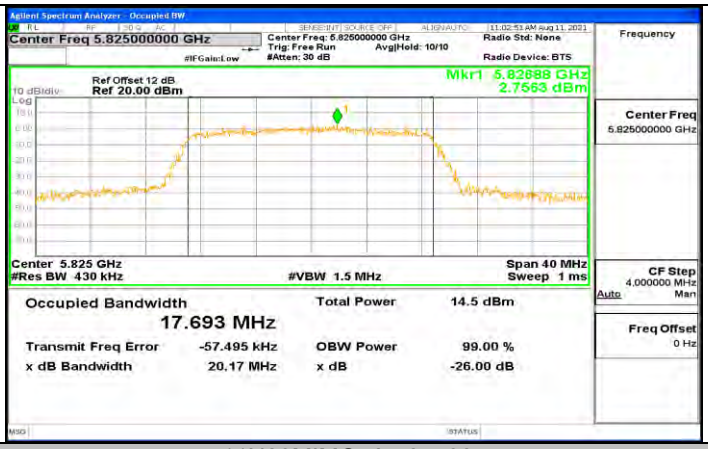

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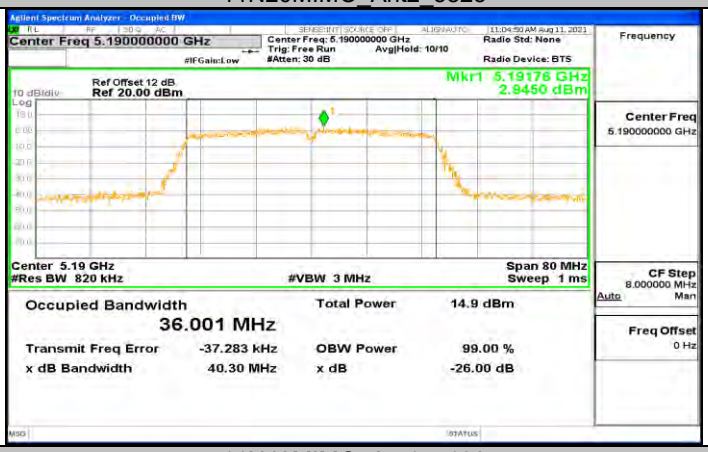

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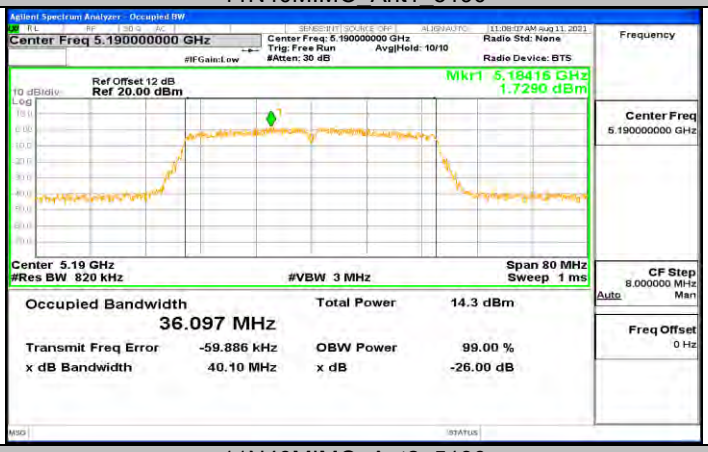

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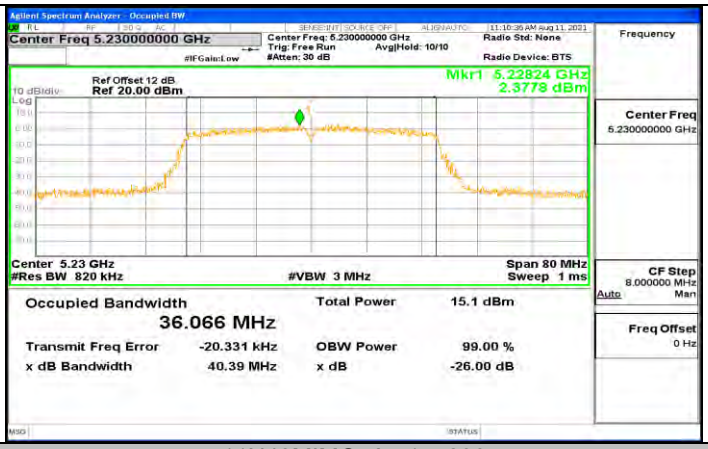

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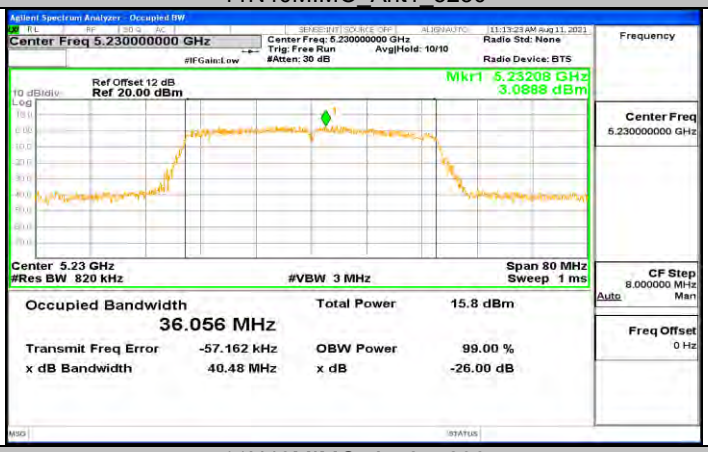

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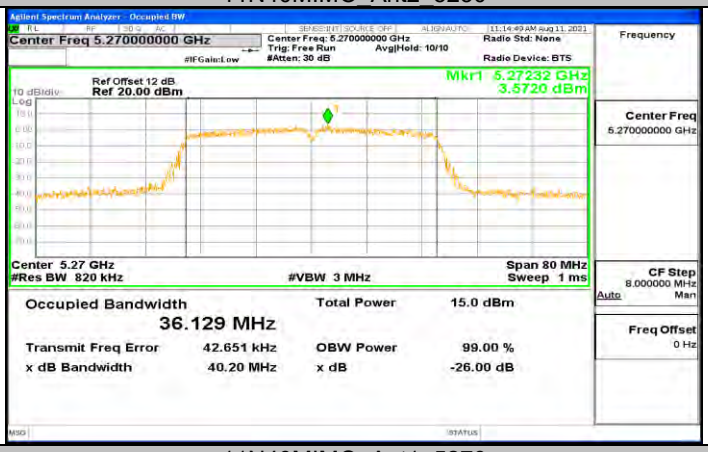

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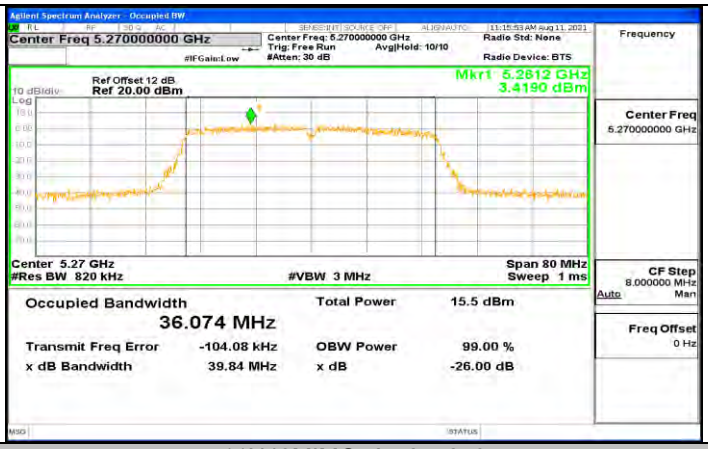

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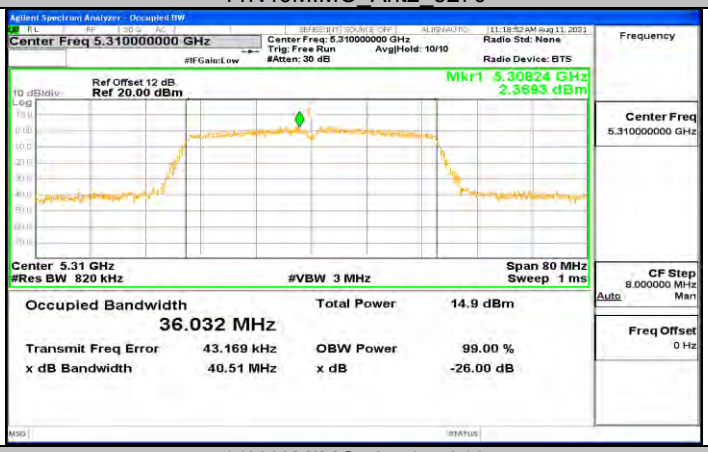

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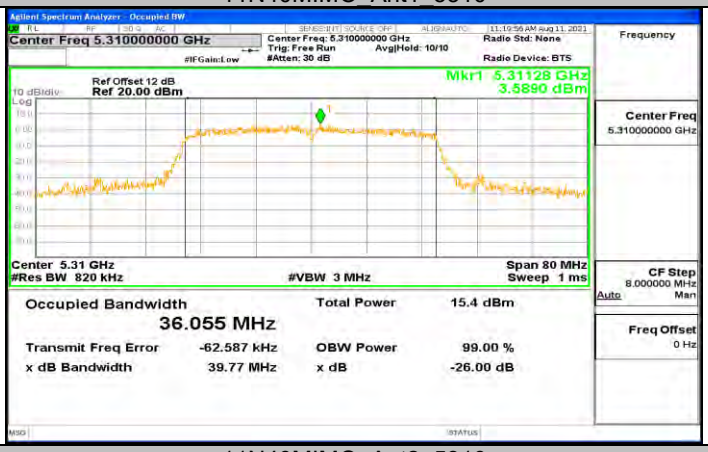

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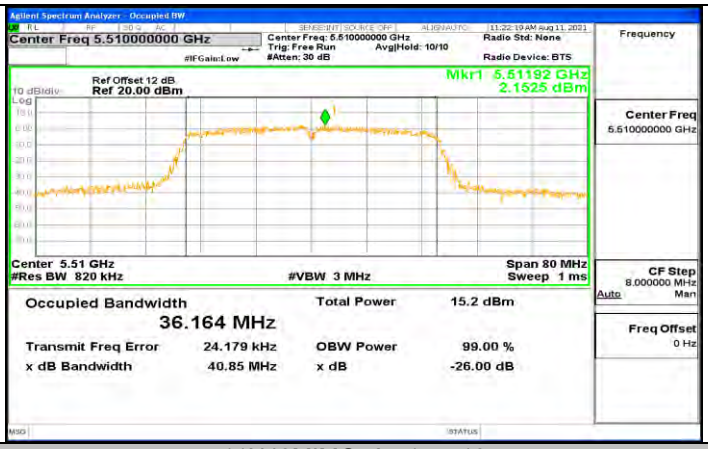

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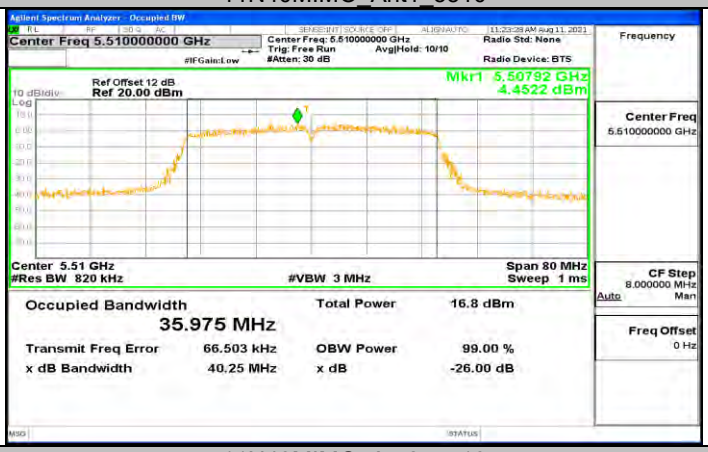

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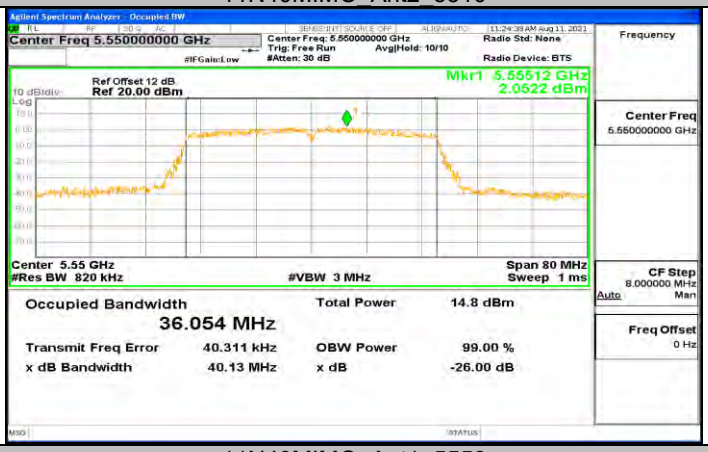

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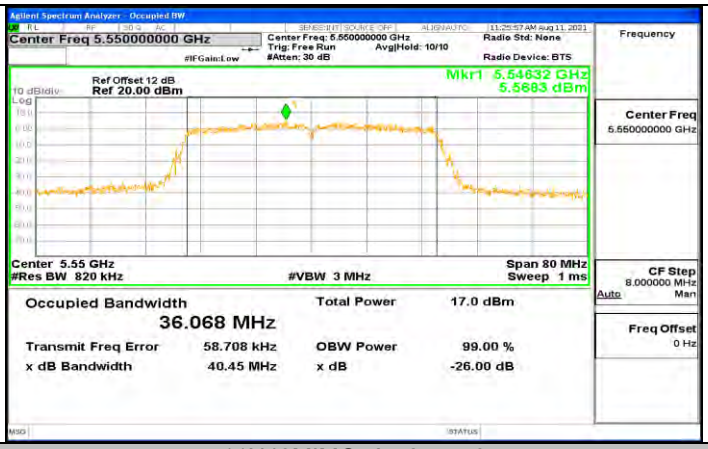

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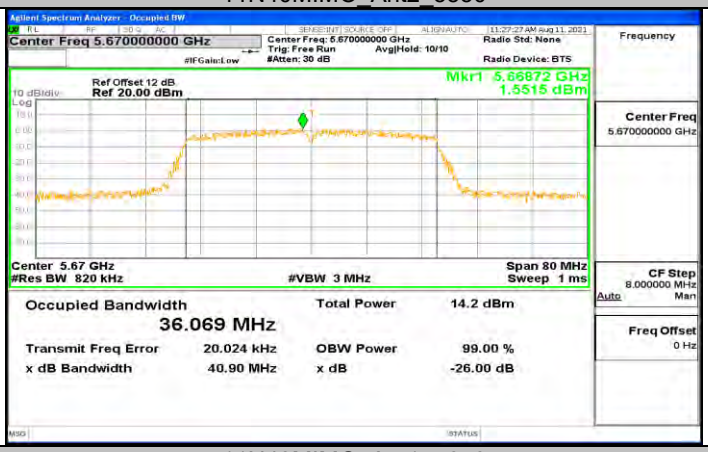

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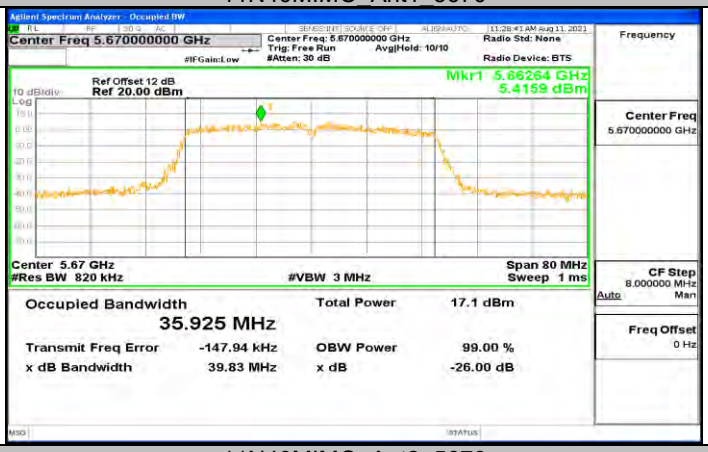

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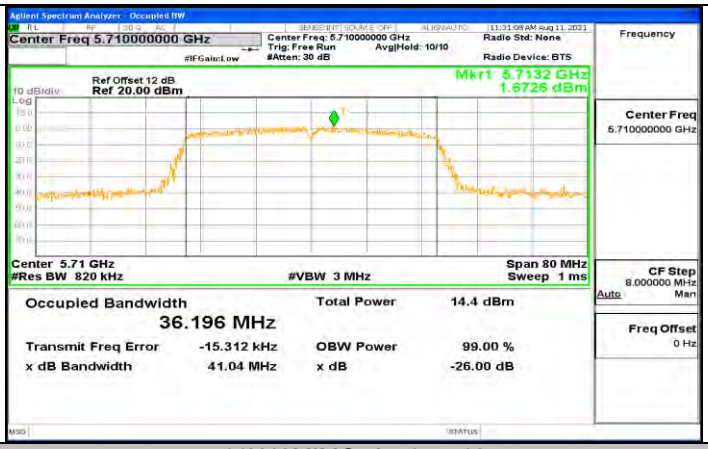

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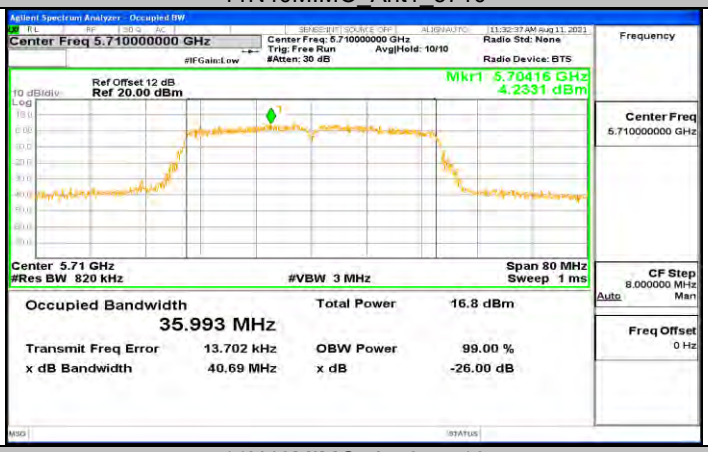

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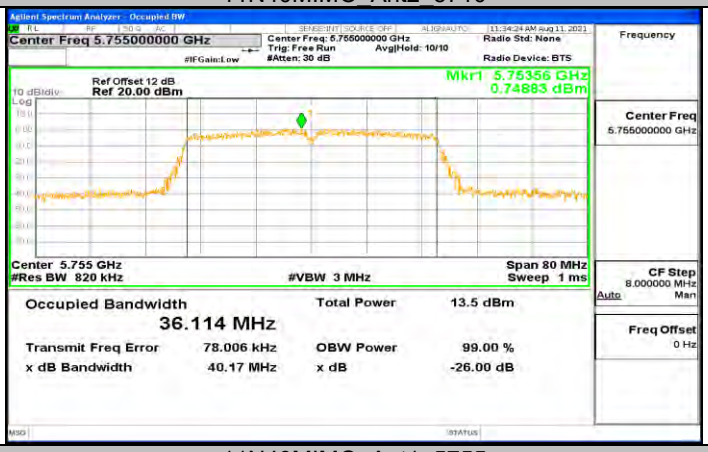

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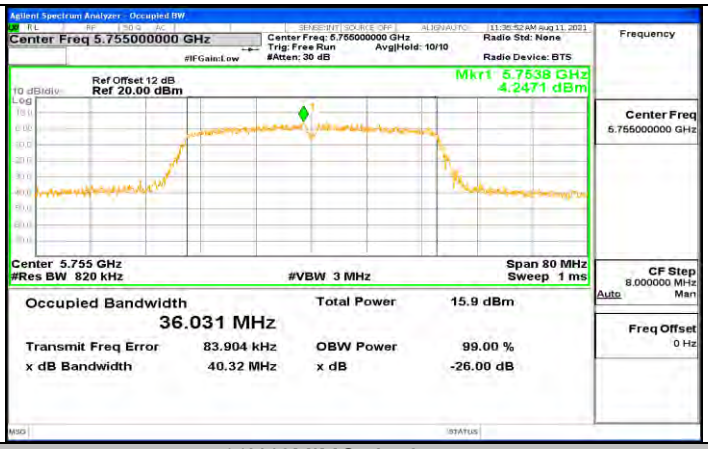

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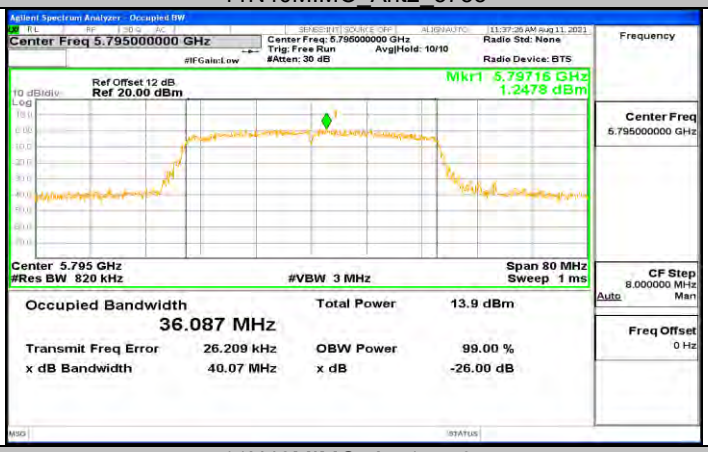

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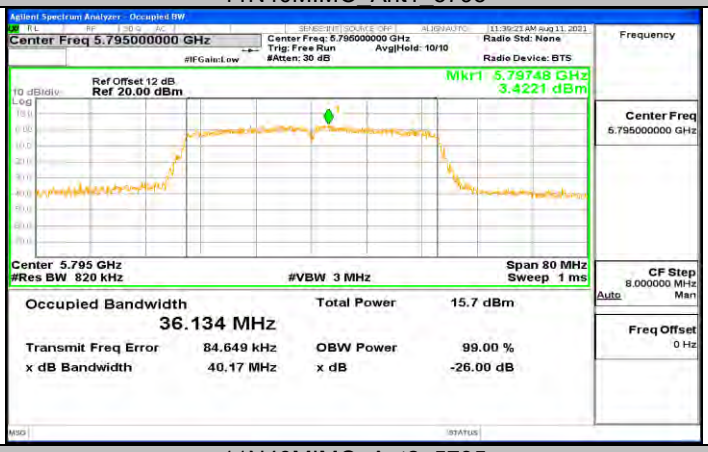

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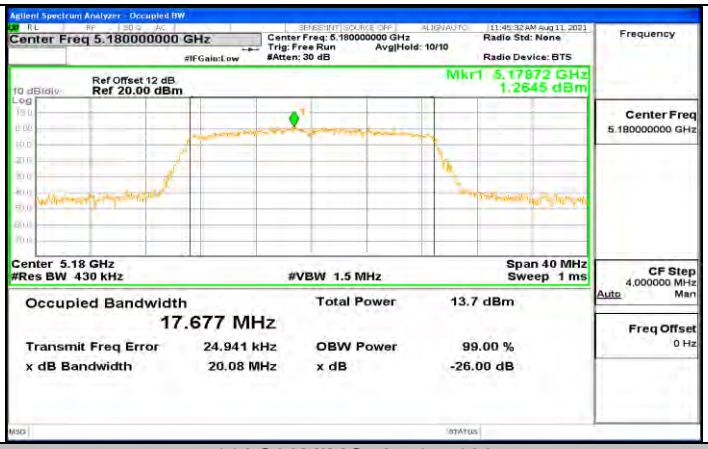

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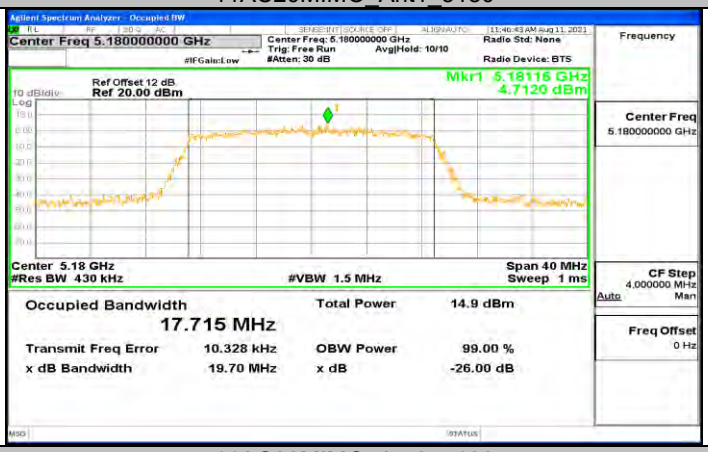

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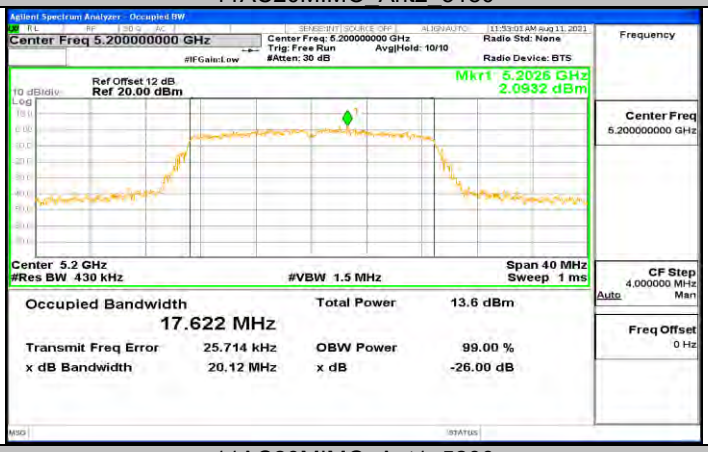

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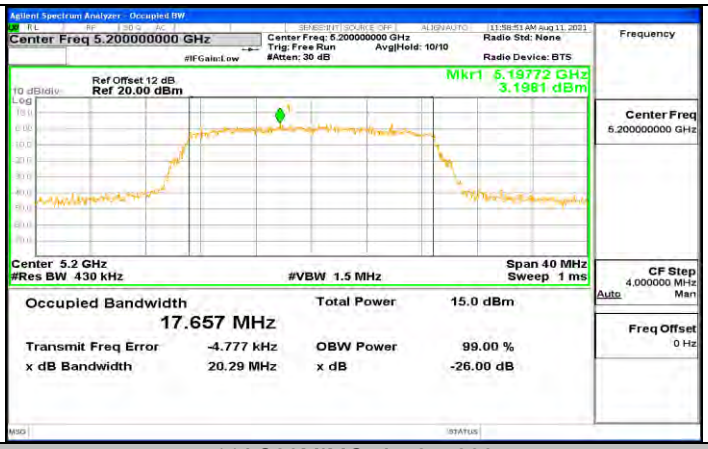

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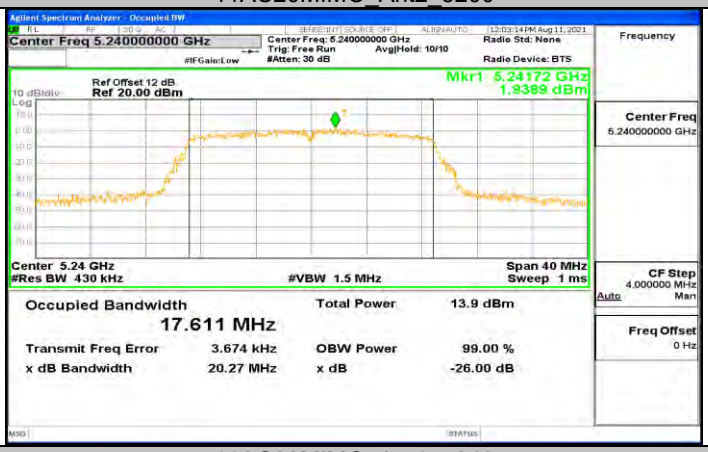

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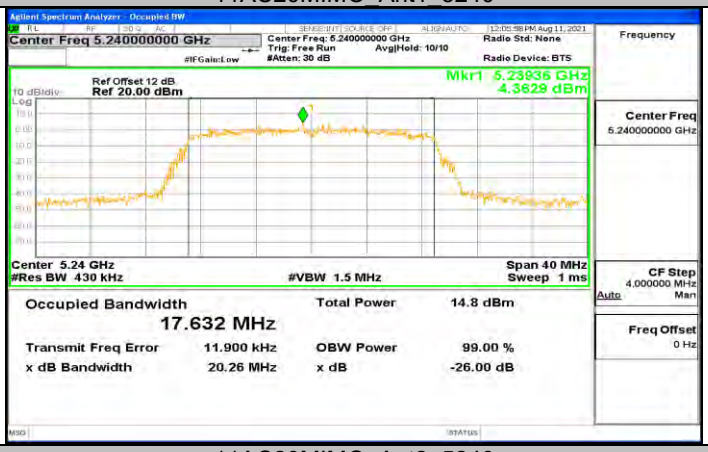

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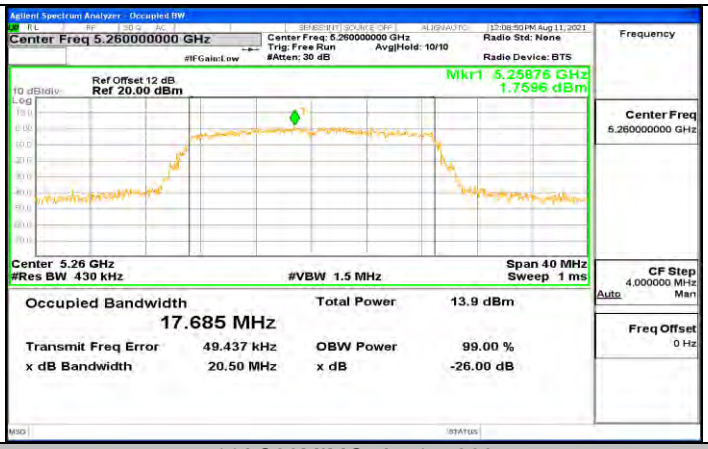

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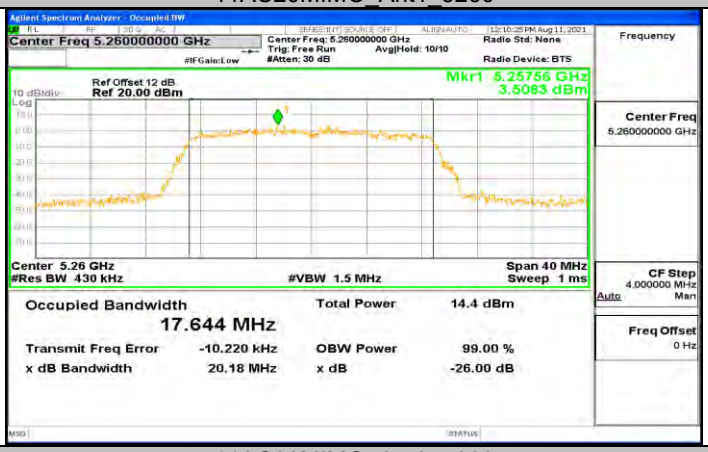

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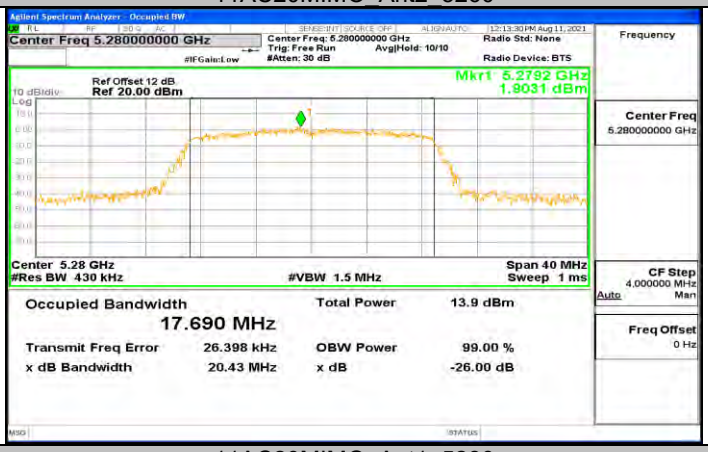

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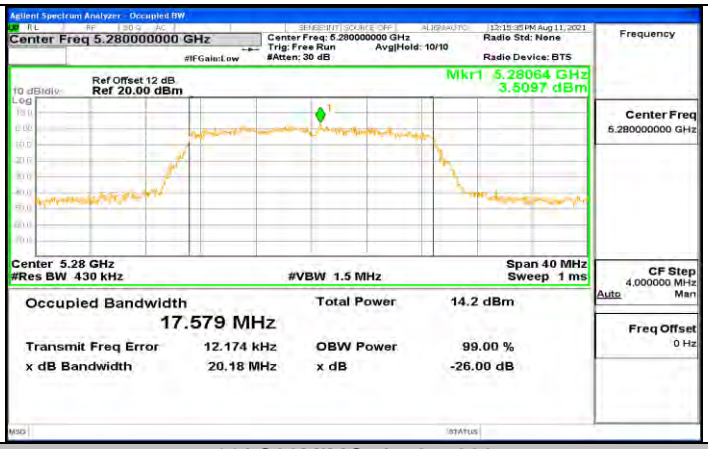

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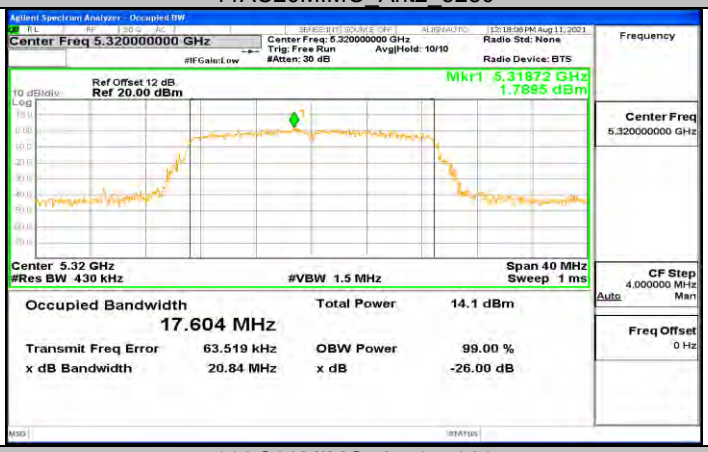

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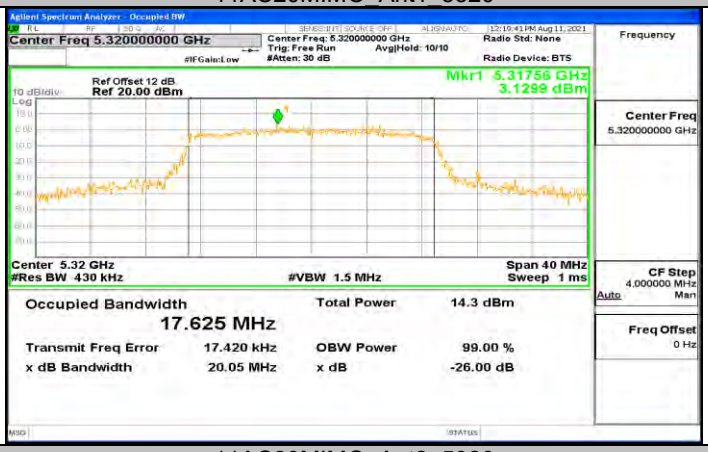

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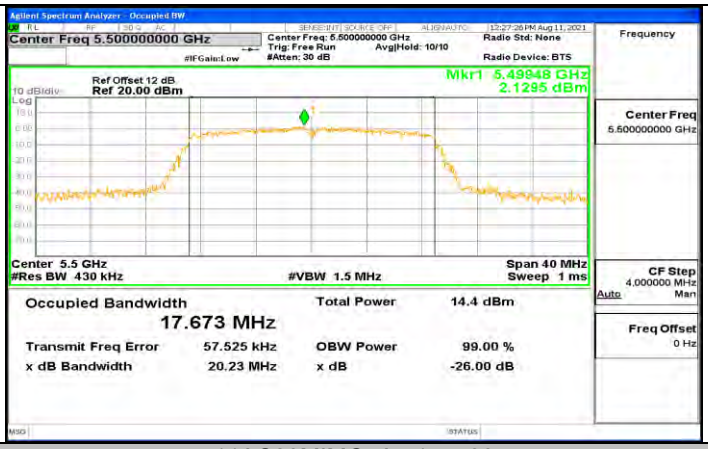

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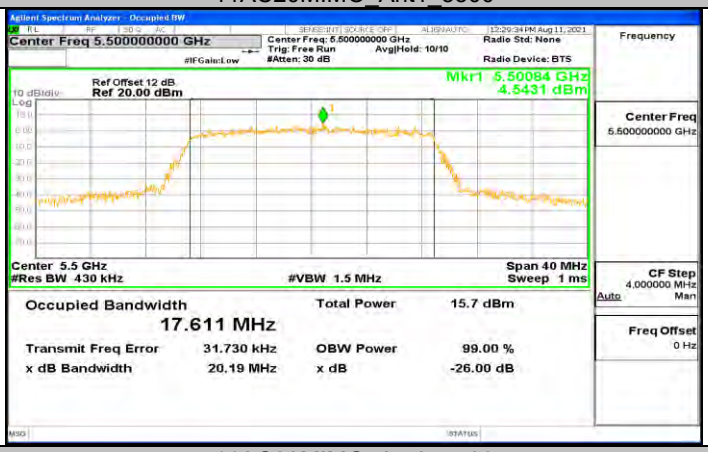

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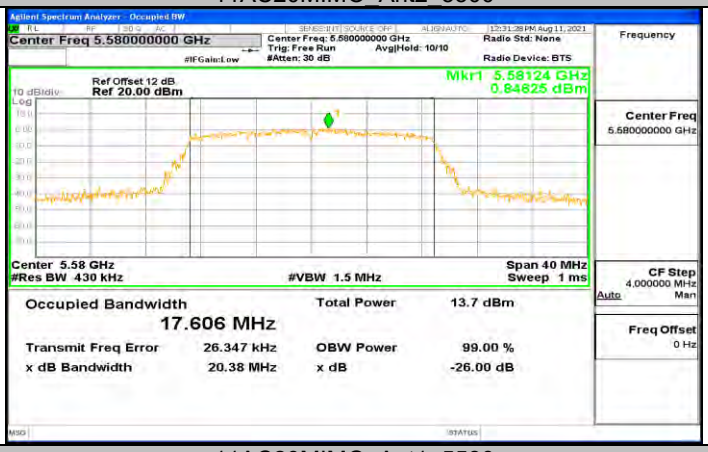

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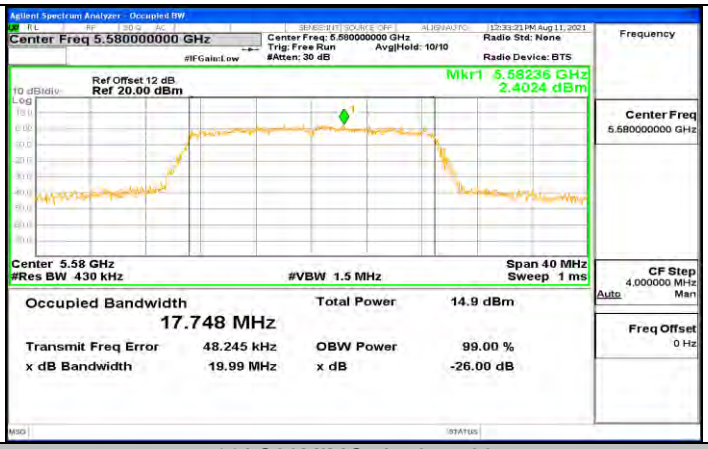

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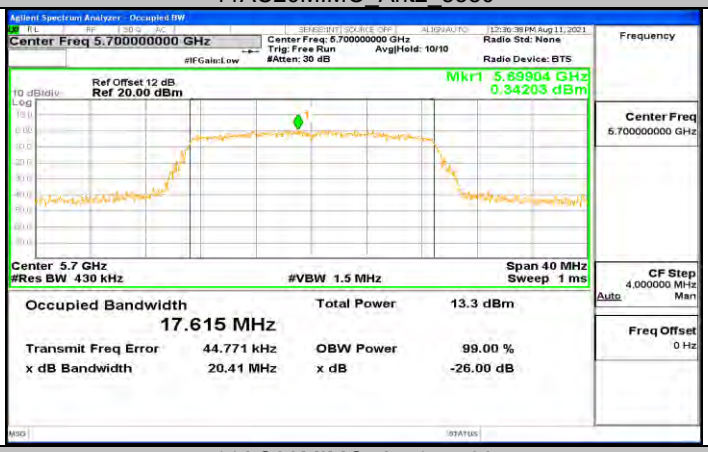

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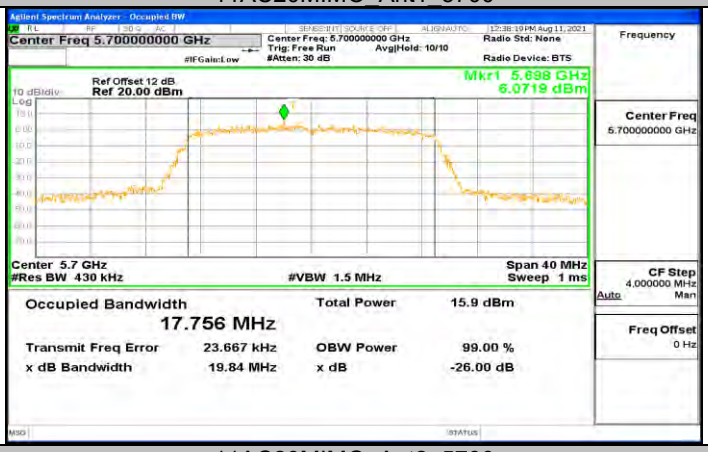

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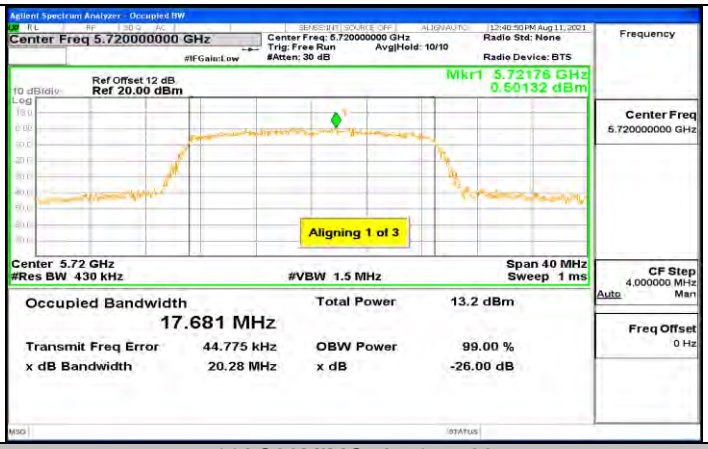

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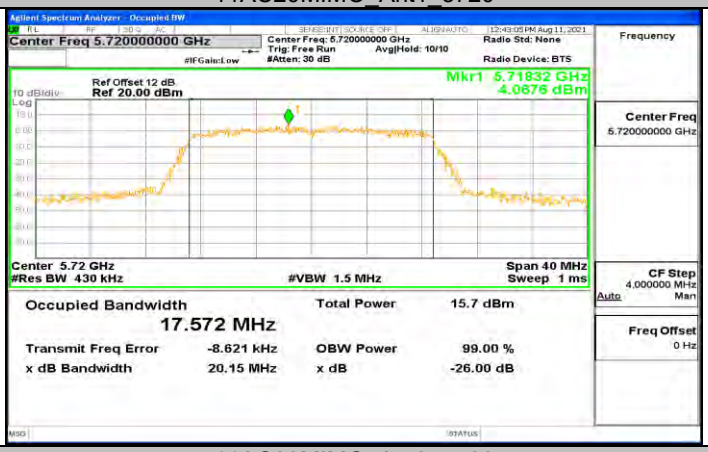

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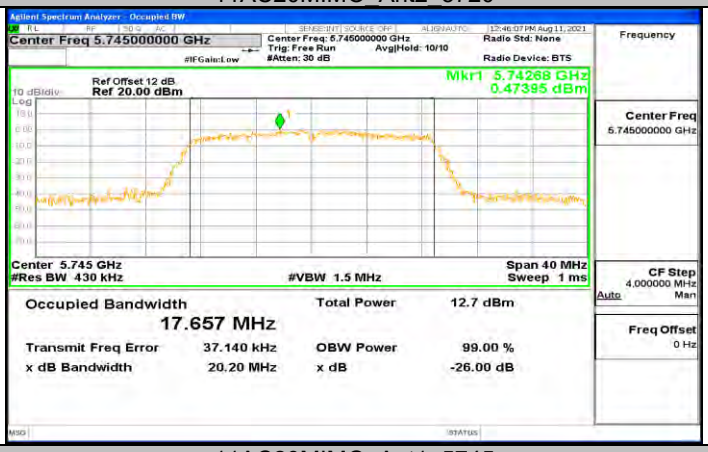

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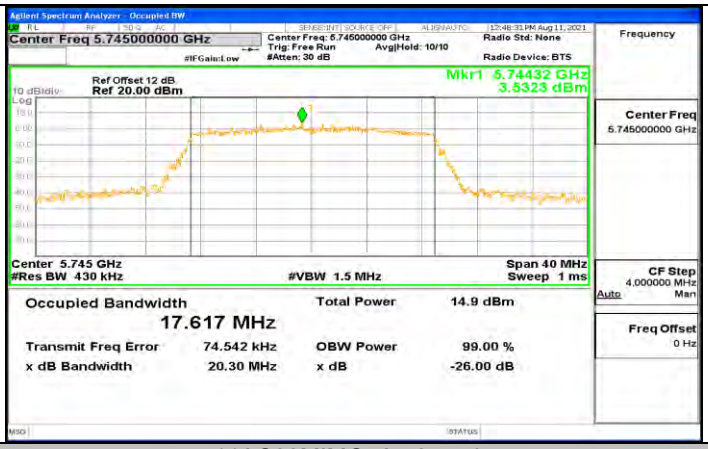

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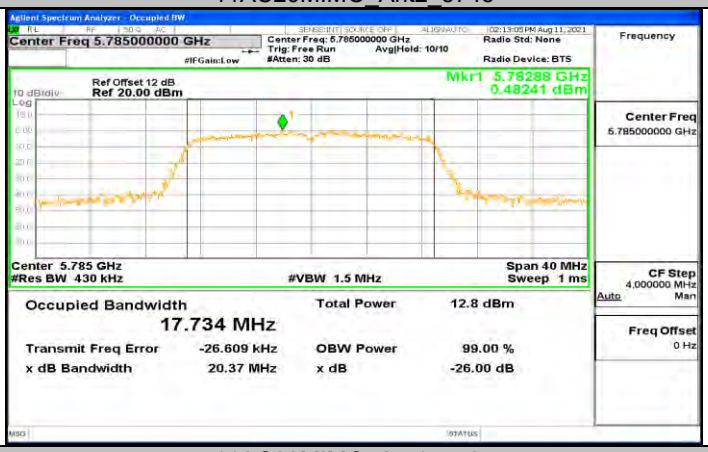

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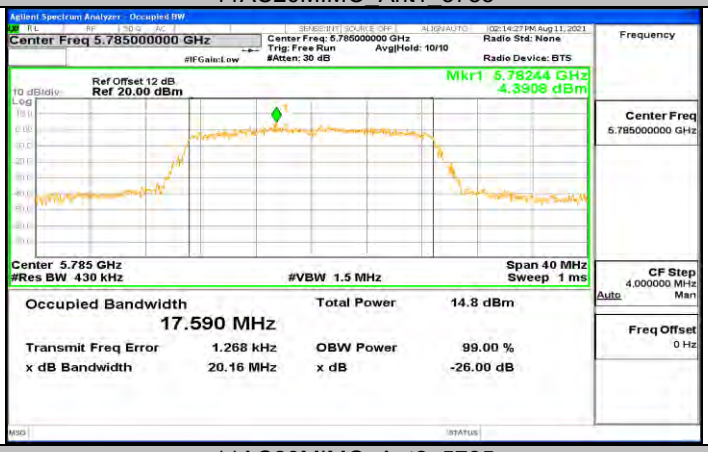

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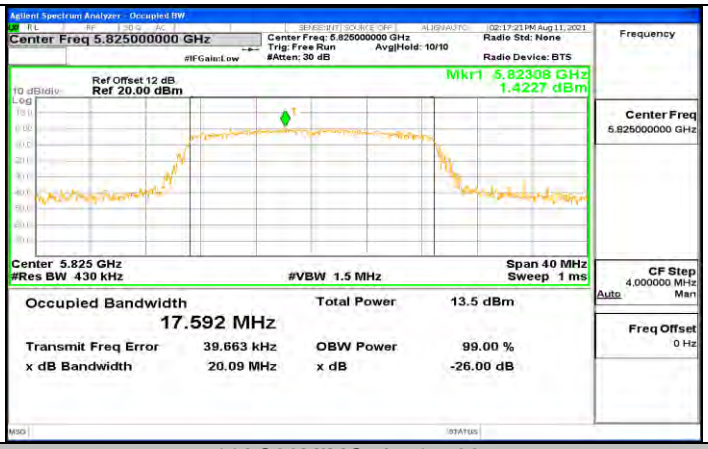

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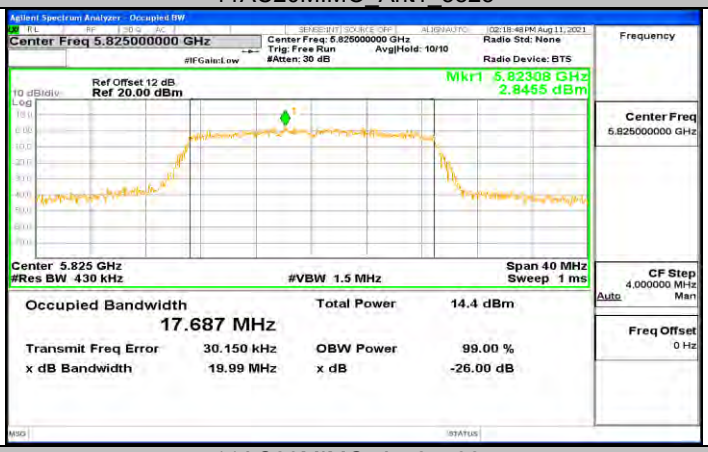

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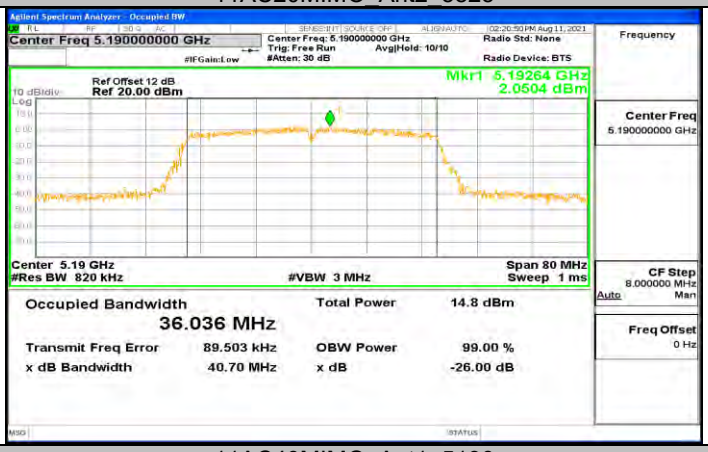

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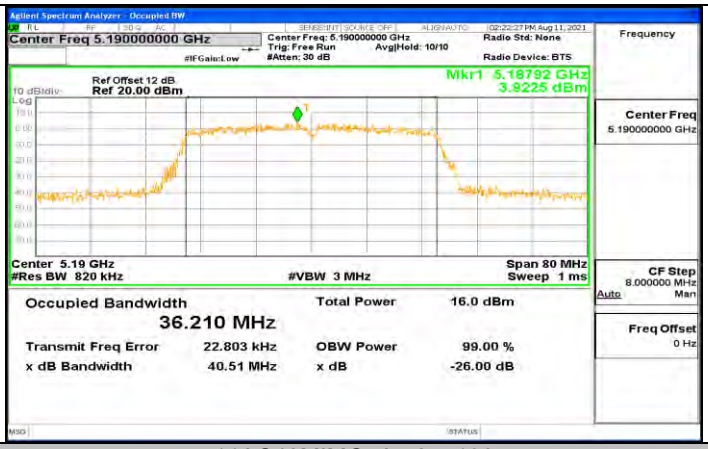

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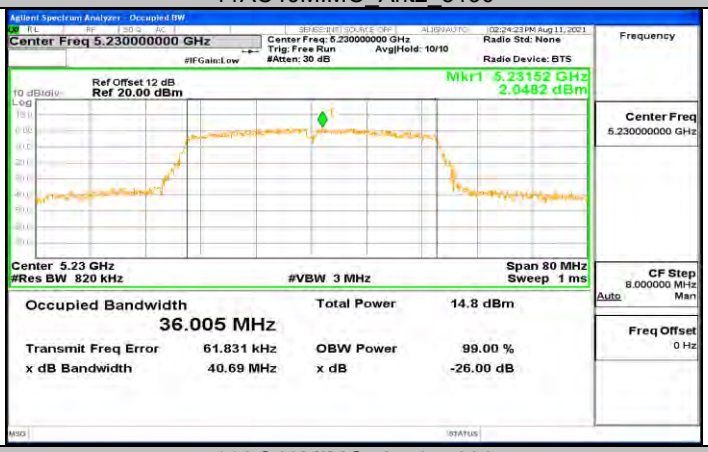

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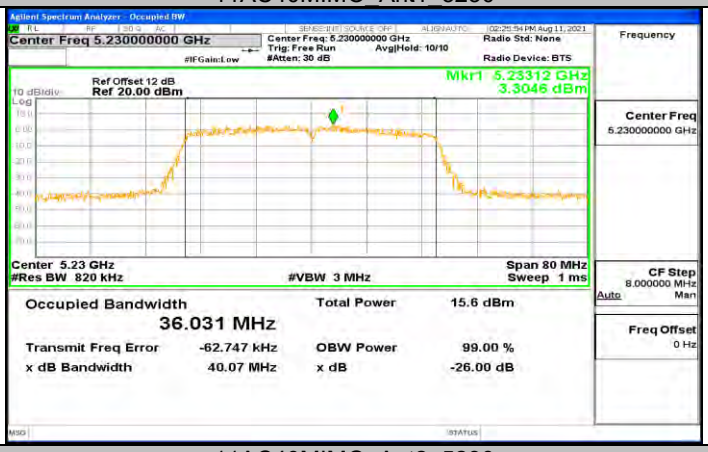

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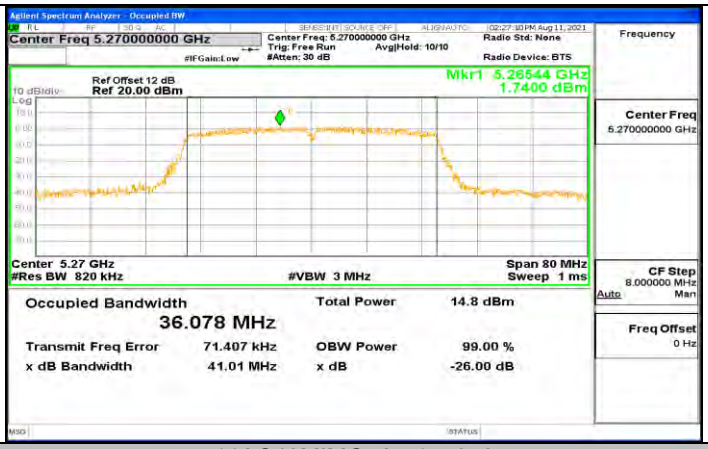

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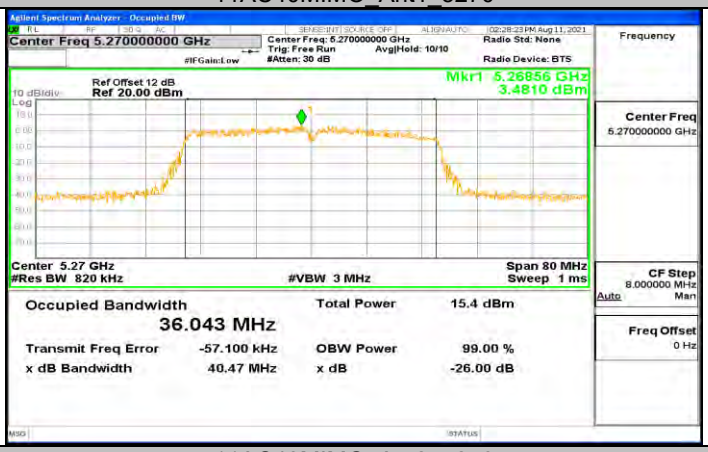

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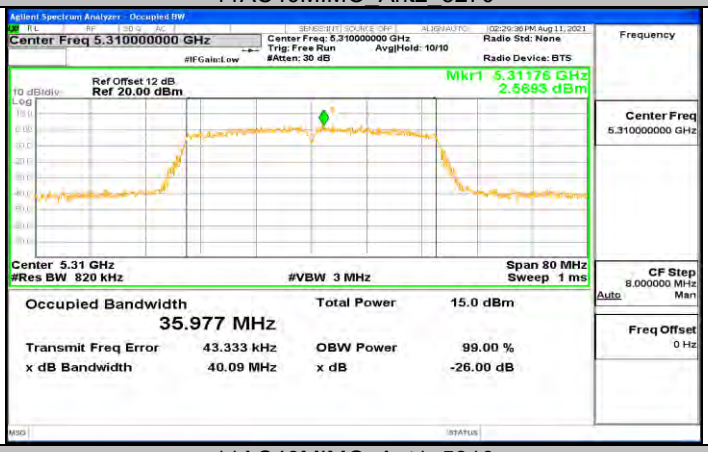

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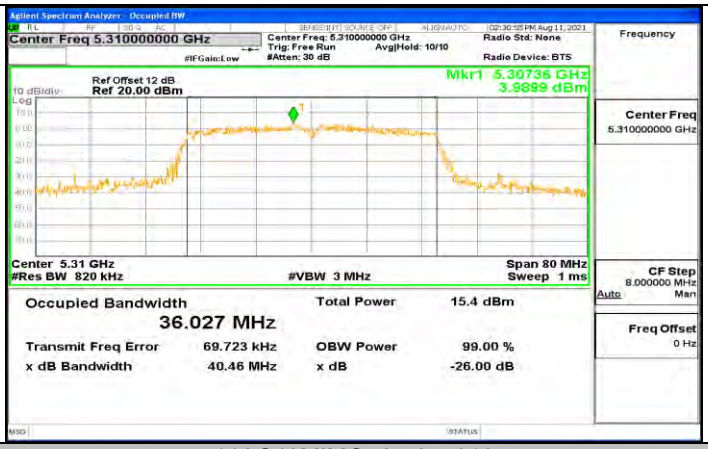

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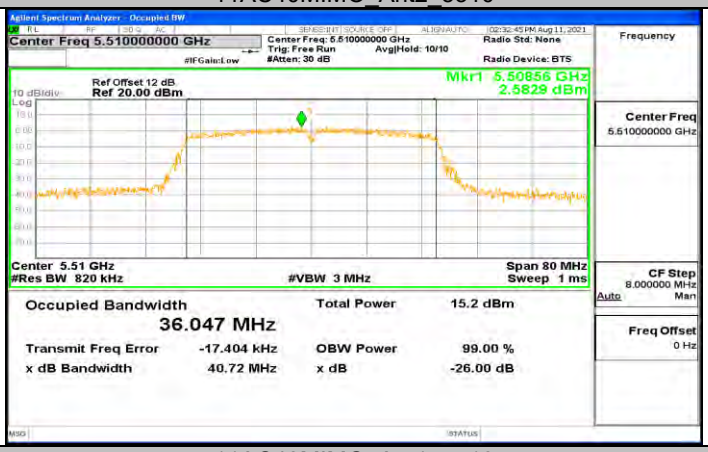

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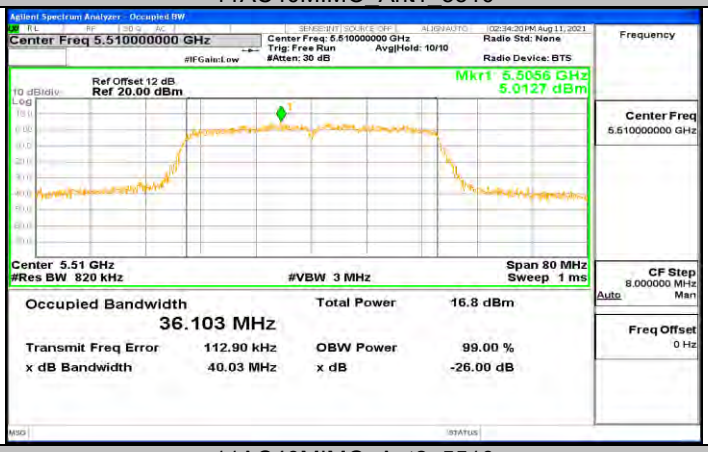

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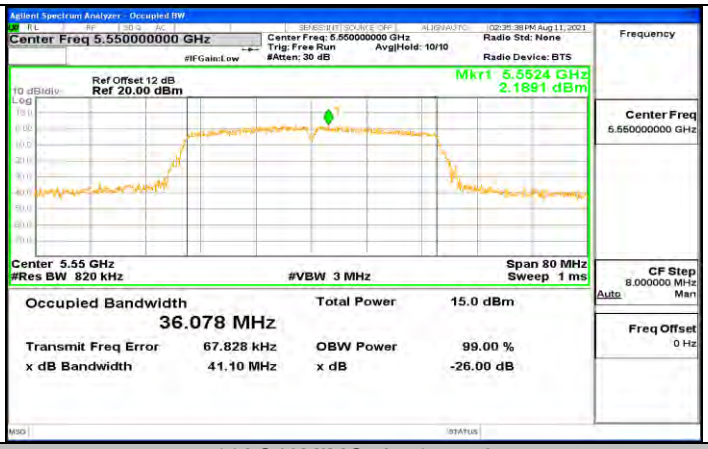

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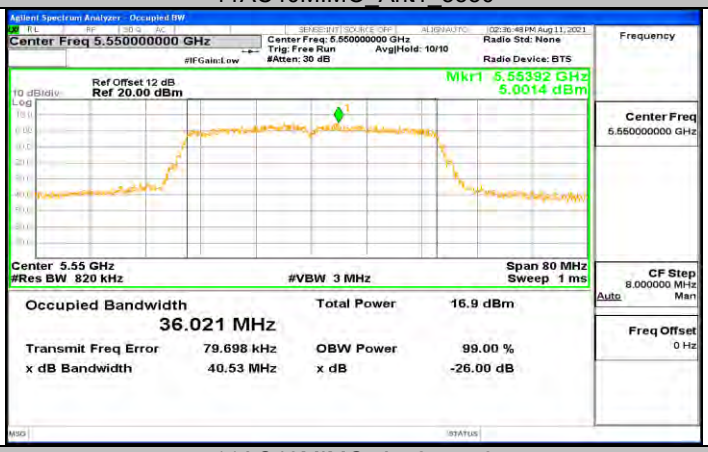

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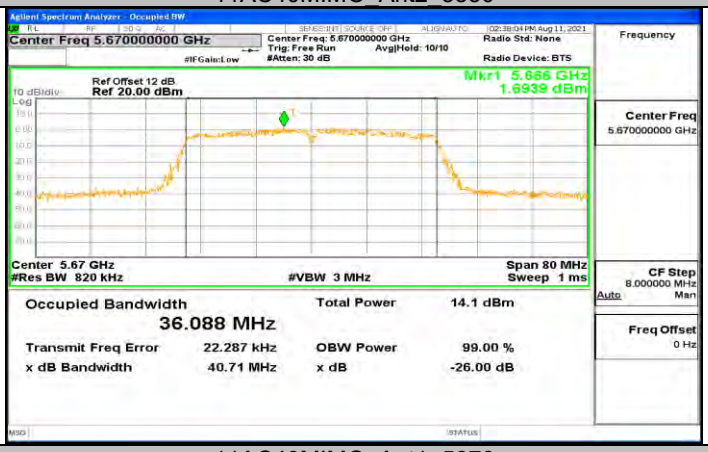

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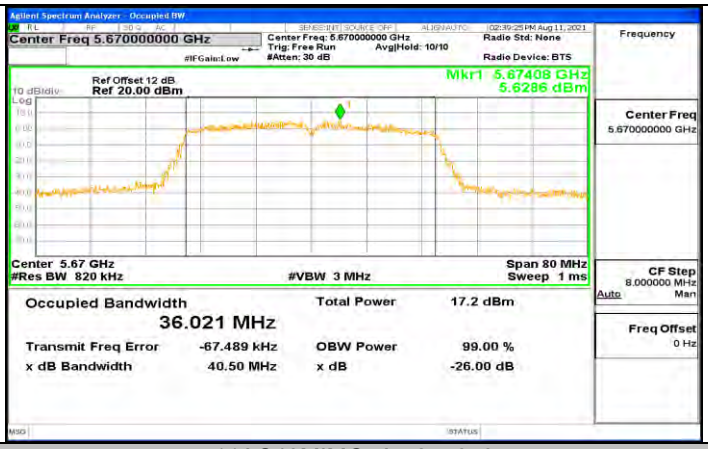

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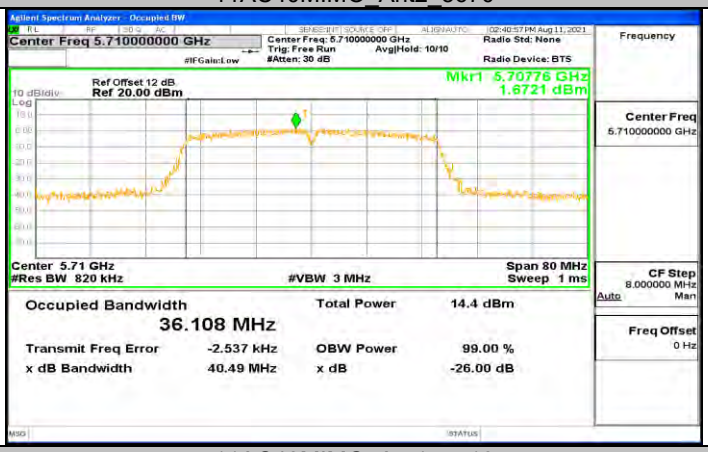

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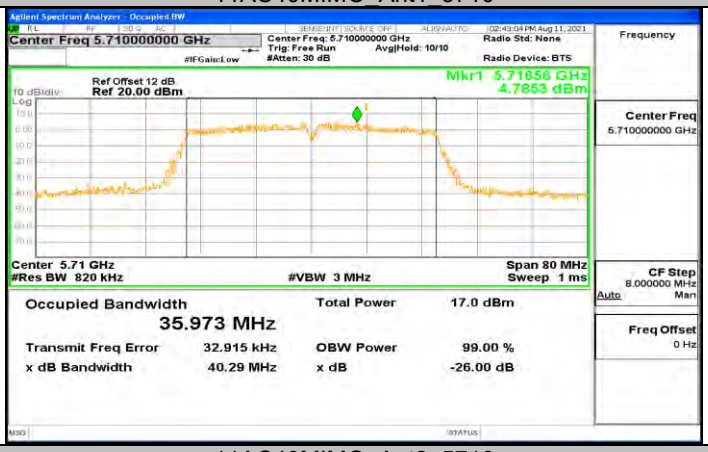

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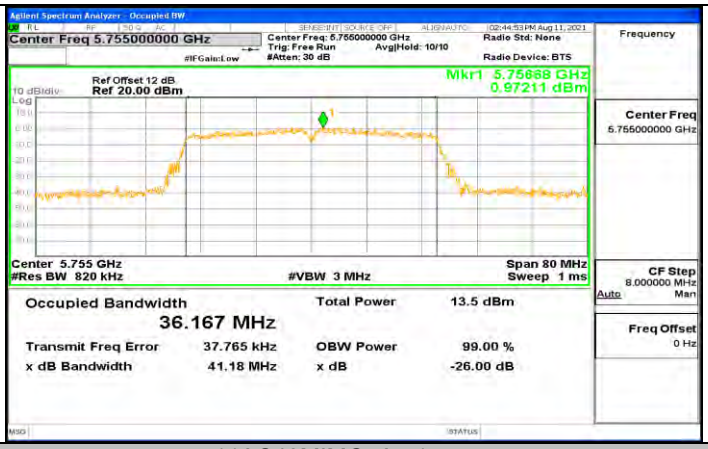

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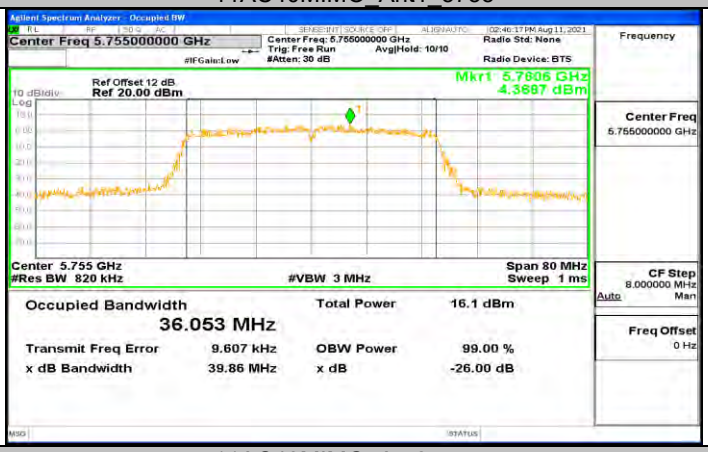

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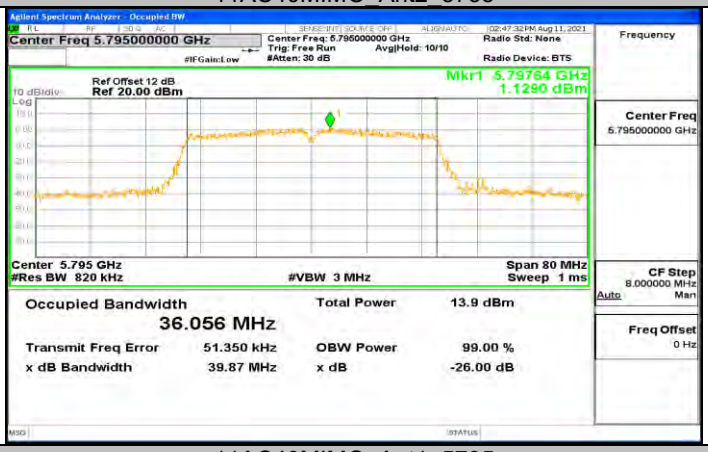

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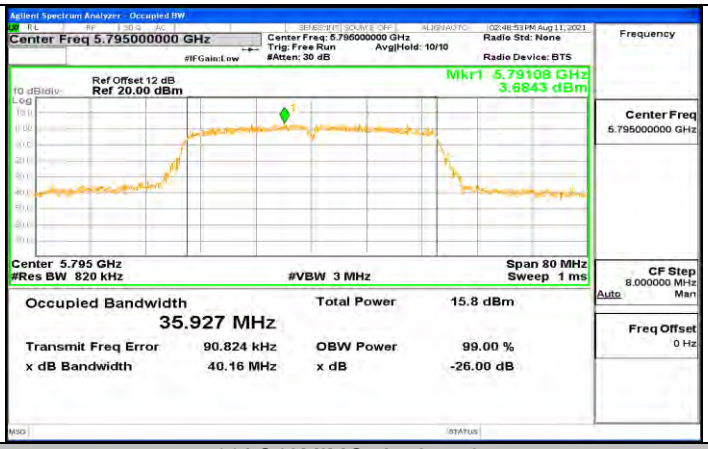

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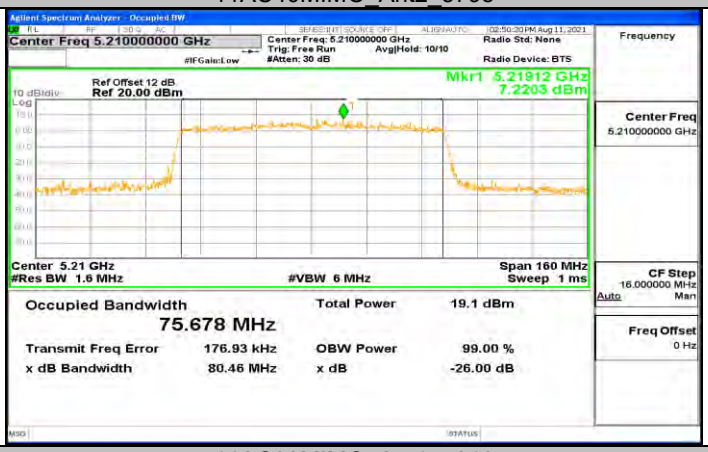

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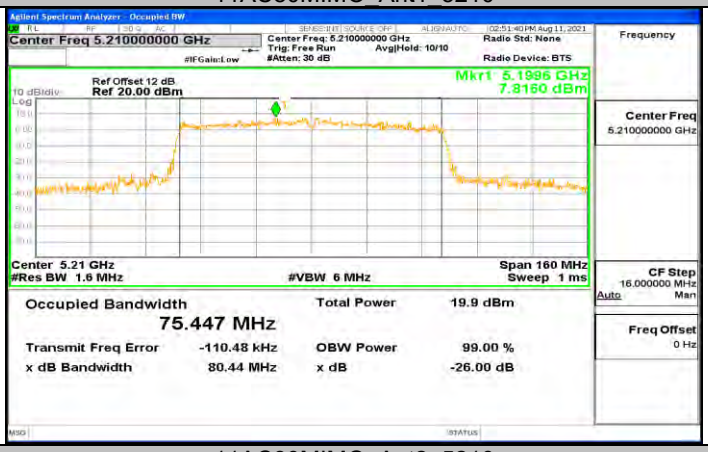

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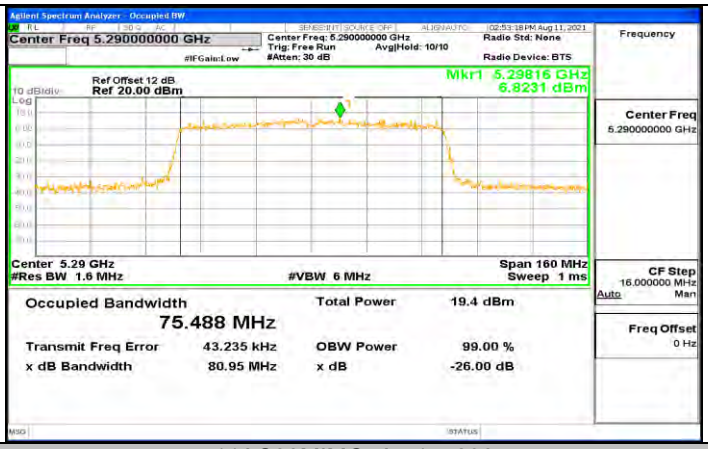
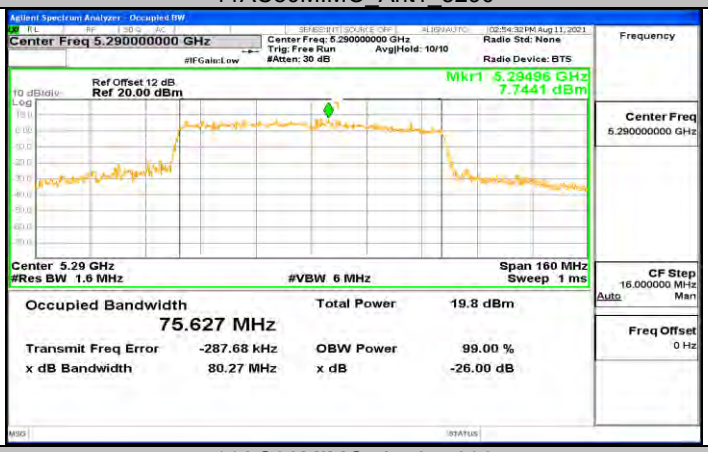
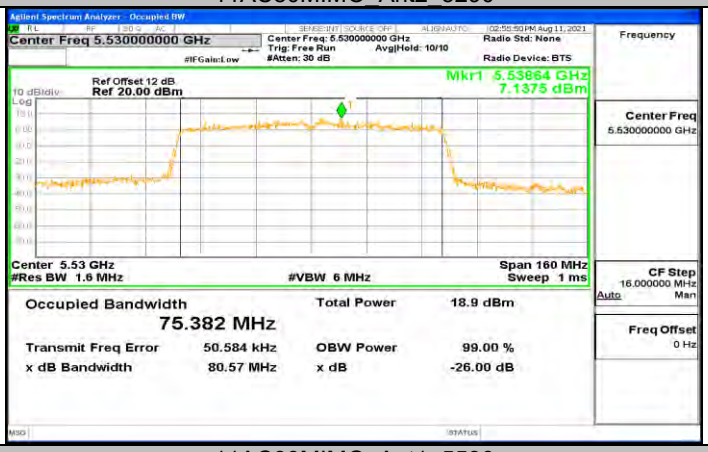


11AC80MIMO_Ant1_5290



11AC80MIMO_Ant2_5290



11AC80MIMO_Ant1_5530

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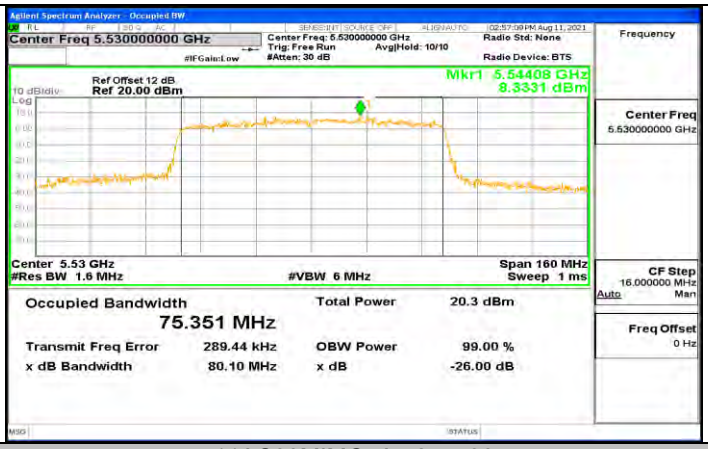
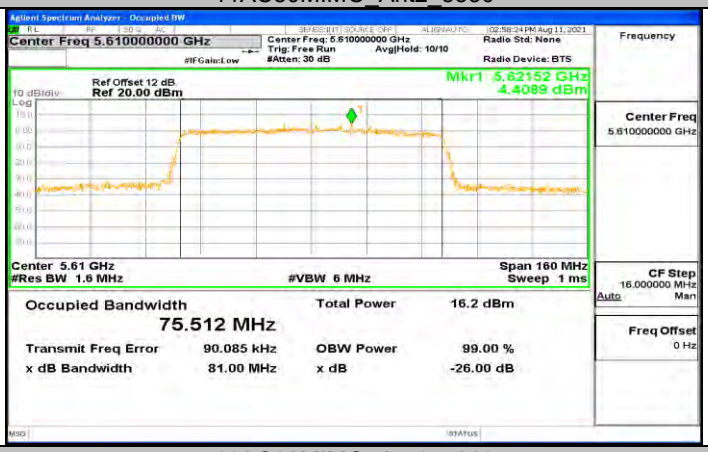
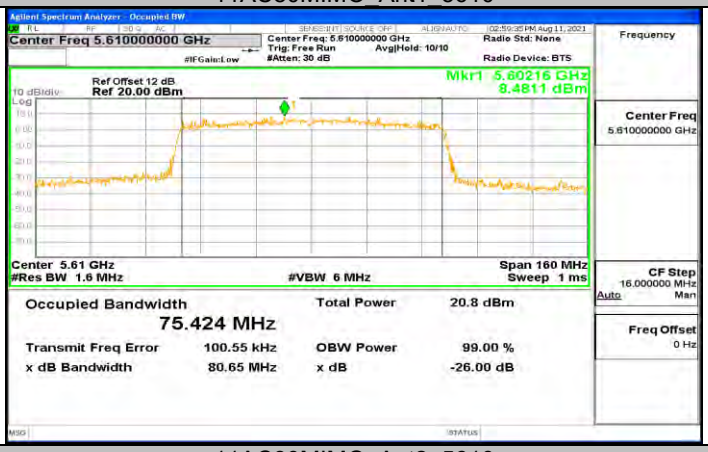


11AC80MIMO_Ant2_5530



11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610

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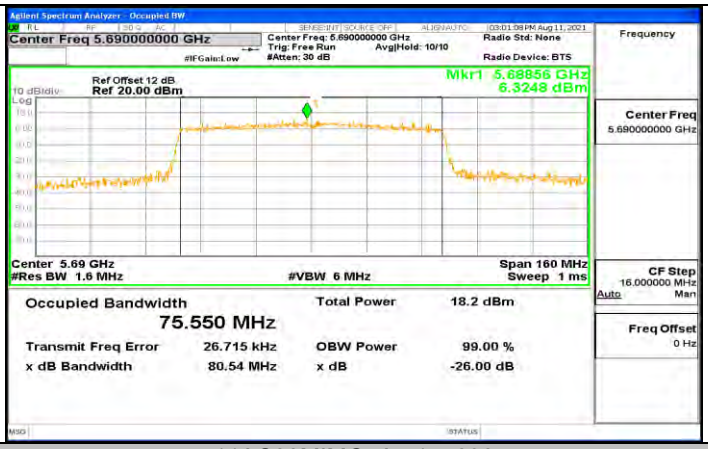
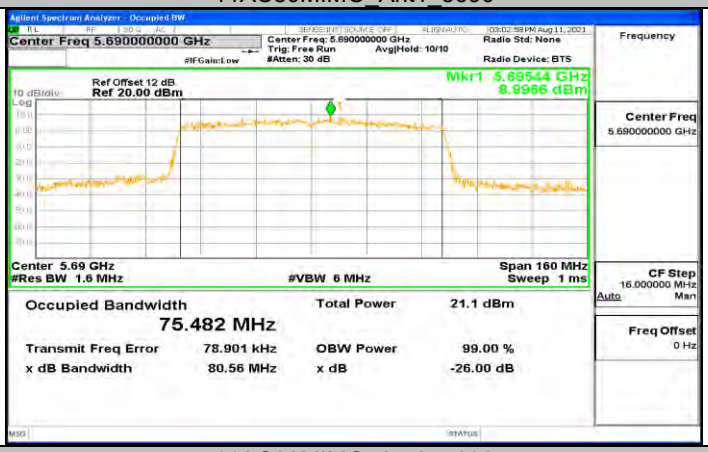
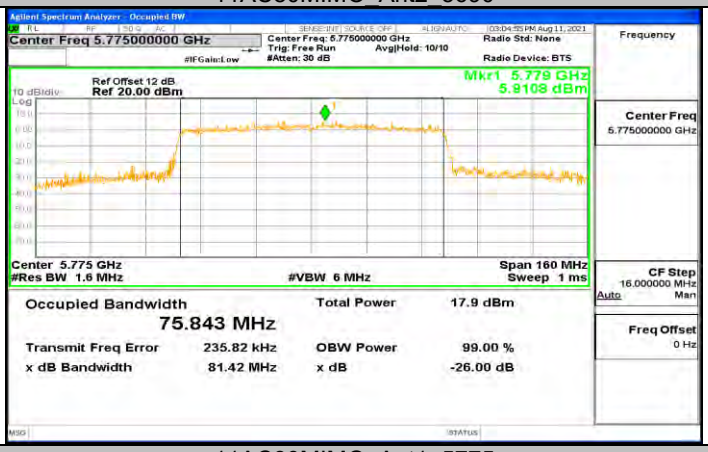


11AC80MIMO_Ant1_5690



11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775

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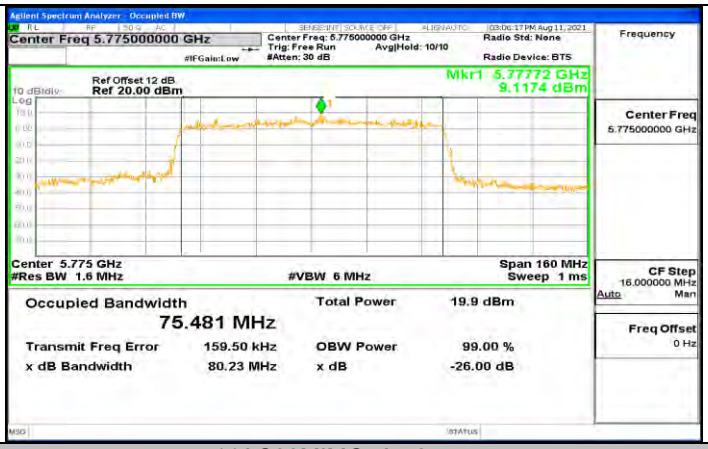

11AC80MIMO_Ant2_5775

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13.3. Appendix A3: Min emission bandwidth

13.3.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720_UNII-3	3.2	5725	5728.200	0.5	PASS
	Ant2	5720_UNII-3	3.16	5725	5728.160	0.5	PASS
	Ant1	5745	16.080	5737.080	5753.160	0.5	PASS
	Ant2	5745	16.440	5736.760	5753.200	0.5	PASS
	Ant1	5785	16.400	5776.760	5793.160	0.5	PASS
	Ant2	5785	16.360	5776.760	5793.120	0.5	PASS
	Ant1	5825	16.480	5816.760	5833.240	0.5	PASS
	Ant2	5825	16.360	5816.800	5833.160	0.5	PASS
11N20MIMO	Ant1	5720_UNII-3	3.84	5725	5728.840	0.5	PASS
	Ant2	5720_UNII-3	3.8	5725	5728.800	0.5	PASS
	Ant1	5745	16.520	5736.400	5752.920	0.5	PASS
	Ant2	5745	17.640	5736.160	5753.800	0.5	PASS
	Ant1	5785	17.400	5776.160	5793.560	0.5	PASS
	Ant2	5785	17.080	5776.680	5793.760	0.5	PASS
	Ant1	5825	16.600	5816.800	5833.400	0.5	PASS
	Ant2	5825	17.640	5816.160	5833.800	0.5	PASS
11N40MIMO	Ant1	5710_UNII-3	2.6	5725	5727.600	0.5	PASS
	Ant2	5710_UNII-3	2.6	5725	5727.600	0.5	PASS
	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant1	5795	35.200	5777.400	5812.600	0.5	PASS
	Ant2	5795	35.200	5777.400	5812.600	0.5	PASS
11AC20MIMO	Ant1	5720_UNII-3	3.84	5725	5728.840	0.5	PASS
	Ant2	5720_UNII-3	3.56	5725	5728.560	0.5	PASS
	Ant1	5745	17.280	5736.560	5753.840	0.5	PASS
	Ant2	5745	17.640	5736.200	5753.840	0.5	PASS
	Ant1	5785	17.600	5776.160	5793.760	0.5	PASS
	Ant2	5785	17.600	5776.200	5793.800	0.5	PASS
	Ant1	5825	17.040	5816.800	5833.840	0.5	PASS
	Ant2	5825	17.640	5816.200	5833.840	0.5	PASS
11AC40MIMO	Ant1	5710_UNII-3	2.68	5725	5727.680	0.5	PASS
	Ant2	5710_UNII-3	2.6	5725	5727.600	0.5	PASS
	Ant1	5755	35.280	5737.400	5772.680	0.5	PASS
	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant1	5795	35.280	5777.400	5812.680	0.5	PASS
	Ant2	5795	35.200	5777.400	5812.600	0.5	PASS
11AC80MIMO	Ant1	5690_UNII-3	2.76	5725	5727.760	0.5	PASS
	Ant2	5690_UNII-3	2.76	5725	5727.760	0.5	PASS
	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS
	Ant2	5775	75.520	5737.240	5812.760	0.5	PASS

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13.3.2. Test Graphs

11A_Ant1_5720_UNII-3

11A_Ant2_5720_UNII-3

11A_Ant1_5745

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11A_Ant2_5745

11A_Ant1_5785

11A_Ant2_5785

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11A_Ant1_5825

11A_Ant2_5825

11N20MIMO_Ant1_5720_UNII-3

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11N20MIMO_Ant2_5720_UNII-3

11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745

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11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785

11N20MIMO_Ant1_5825

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11N20MIMO_Ant2_5825

11N40MIMO_Ant1_5710_UNII-3

11N40MIMO_Ant2_5710_UNII-3

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11N40MIMO_Ant1_5755

11N40MIMO_Ant2_5755

11N40MIMO_Ant1_5795

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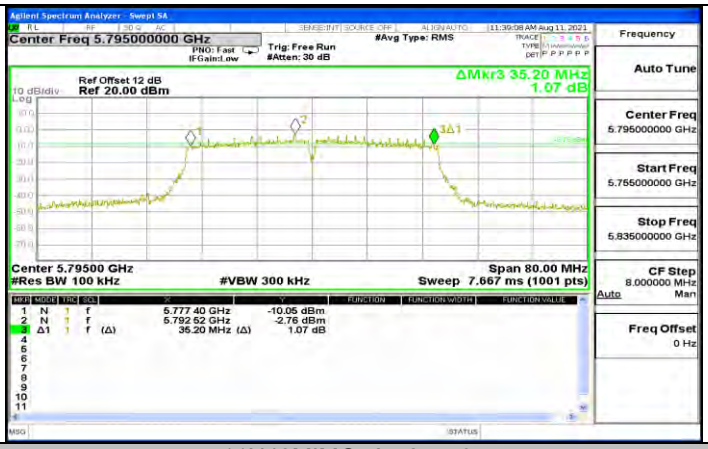

11N40MIMO_Ant2_5795

11AC20MIMO_Ant1_5720_UNII-3

11AC20MIMO_Ant2_5720_UNII-3

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11AC20MIMO_Ant1_5745

11AC20MIMO_Ant2_5745

11AC20MIMO_Ant1_5785

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11AC20MIMO_Ant2_5785

11AC20MIMO_Ant1_5825

11AC20MIMO_Ant2_5825

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11AC40MIMO_Ant1_5710_UNII-3

11AC40MIMO_Ant2_5710_UNII-3

11AC40MIMO_Ant1_5755

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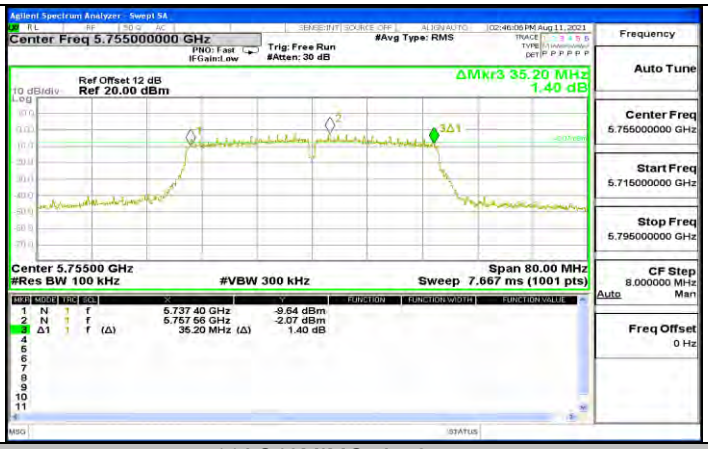
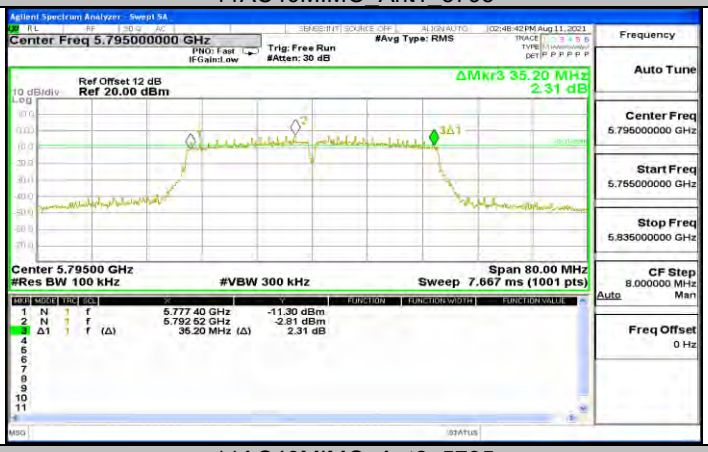


11AC40MIMO_Ant2_5755

11AC40MIMO_Ant1_5795



11AC40MIMO_Ant2_5795

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11AC80MIMO_Ant1_5690_UNII-3

11AC80MIMO_Ant2_5690_UNII-3

11AC80MIMO_Ant1_5775

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11AC80MIMO_Ant2_5775

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13.4. Appendix B: Maximum conducted output power

13.4.1. Test Result

Test Mode	Antenna	Channel	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	ISED EIRP Limit [dBm]	Verdict
11A	Ant1	5180	13.28	≤23.98	---	15.29	≤22.17	PASS
	Ant2	5180	14.38	≤23.98	---	16.41	≤22.19	PASS
	Ant1	5200	13.20	≤23.98	---	15.21	≤22.20	PASS
	Ant2	5200	14.38	≤23.98	---	16.41	≤22.21	PASS
	Ant1	5240	13.31	≤23.98	---	15.32	≤22.19	PASS
	Ant2	5240	14.31	≤23.98	---	16.34	≤22.16	PASS
	Ant1	5260	13.42	≤23.98	≤23.21	15.43	≤29.21	PASS
	Ant2	5260	13.28	≤23.96	≤23.21	15.31	≤29.21	PASS
	Ant1	5280	13.41	≤23.98	≤23.20	15.42	≤29.20	PASS
	Ant2	5280	13.26	≤23.98	≤23.21	15.29	≤29.21	PASS
	Ant1	5320	13.69	≤23.98	≤23.18	15.70	≤29.18	PASS
	Ant2	5320	13.34	≤23.98	≤23.17	15.37	≤29.17	PASS
	Ant1	5500	14.21	≤23.98	≤23.20	16.22	≤29.20	PASS
	Ant2	5500	14.43	≤23.98	≤23.19	16.46	≤29.19	PASS
	Ant1	5580	13.36	≤23.98	≤23.22	15.37	≤29.22	PASS
	Ant2	5580	14.40	≤23.98	≤23.18	16.43	≤29.18	PASS
	Ant1	5700	12.82	≤23.98	≤23.21	14.83	≤29.21	PASS
	Ant2	5700	14.48	≤23.98	≤23.20	16.51	≤29.20	PASS
	Ant1	5720_UNII-2C	11.80	≤22.78	≤22.24	13.81	≤28.24	PASS
	Ant2	5720_UNII-2C	13.57	≤22.73	≤22.23	15.60	≤28.23	PASS
	Ant1	5720_UNII-3	4.18	≤30	≤30	6.19	---	PASS
	Ant2	5720_UNII-3	5.95	≤30	≤30	7.98	---	PASS
	Ant1	5745	12.14	≤30	≤30	14.15	---	PASS
	Ant2	5745	14.08	≤30	≤30	16.11	---	PASS
	Ant1	5785	12.49	≤30	≤30	14.50	---	PASS
	Ant2	5785	13.87	≤30	≤30	15.90	---	PASS
	Ant1	5825	12.68	≤30	≤30	14.69	---	PASS
	Ant2	5825	13.65	≤30	≤30	15.68	---	PASS
11N20MIMO	Ant1	5180	9.24	≤23.98	---	11.25	≤22.48	PASS
	Ant2	5180	10.21	≤23.98	---	12.24	≤22.49	PASS
	total	5180	12.8	≤23.98	---	17.83	≤22.49	PASS
	Ant1	5200	9.17	≤23.98	---	11.18	≤22.47	PASS
	Ant2	5200	9.46	≤23.98	---	11.49	≤22.47	PASS
	total	5200	12.3	≤23.98	---	17.33	≤22.47	PASS
	Ant1	5240	9.20	≤23.98	---	11.21	≤22.46	PASS
	Ant2	5240	9.77	≤23.98	---	11.8	≤22.46	PASS
	total	5240	12.5	≤23.98	---	17.53	≤22.46	PASS
	Ant1	5260	9.26	≤23.98	≤23.46	11.27	≤29.46	PASS
	Ant2	5260	9.17	≤23.98	≤23.45	11.2	≤29.45	PASS
	total	5260	12.2	≤23.98	≤23.45	17.23	≤29.45	PASS
	Ant1	5280	9.43	≤23.98	≤23.47	11.44	≤29.47	PASS
	Ant2	5280	9.49	≤23.98	≤23.51	11.52	≤29.51	PASS
	total	5280	12.5	≤23.98	≤23.51	17.53	≤29.51	PASS
	Ant1	5320	9.72	≤23.98	≤23.46	11.73	≤29.46	PASS
	Ant2	5320	9.79	≤23.98	≤23.46	11.82	≤29.46	PASS
	total	5320	12.8	≤23.98	≤23.46	17.83	≤29.46	PASS
	Ant1	5500	9.96	≤23.98	≤23.46	11.97	≤29.46	PASS
	Ant2	5500	11.33	≤23.98	≤23.46	13.36	≤29.46	PASS
	total	5500	13.7	≤23.98	≤23.46	18.73	≤29.46	PASS
	Ant1	5580	9.31	≤23.98	≤23.46	11.32	≤29.46	PASS

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	Ant2	5580	11.51	≤23.98	≤23.48	13.54	≤29.48	PASS
	total	5580	13.6	≤23.98	≤23.48	18.63	≤29.48	PASS
	Ant1	5700	8.86	≤23.98	≤23.48	10.87	≤29.48	PASS
	Ant2	5700	11.51	≤23.98	≤23.47	13.54	≤29.47	PASS
	total	5700	13.4	≤23.98	≤23.47	18.43	≤29.47	PASS
	Ant1	5720_UNII-2C	7.93	≤22.78	≤22.42	9.94	≤28.42	PASS
	Ant2	5720_UNII-2C	10.66	≤22.80	≤22.42	12.69	≤28.42	PASS
	total	5720_UNII-2C	12.5	≤22.80	≤22.42	17.53	≤28.42	PASS
	Ant1	5720_UNII-3	0.65	≤30	≤30	2.66	---	PASS
	Ant2	5720_UNII-3	3.47	≤30	≤30	5.5	---	PASS
	total	5720_UNII-3	5.3	≤30	≤30	10.33	---	PASS
	Ant1	5745	7.76	≤30	≤30	9.77	---	PASS
	Ant2	5745	10.58	≤30	≤30	12.61	---	PASS
	total	5745	12.4	≤30	≤30	17.43	---	PASS
	Ant1	5785	8.28	≤30	≤30	10.29	---	PASS
	Ant2	5785	10.36	≤30	≤30	12.39	---	PASS
	total	5785	12.5	≤30	≤30	17.53	---	PASS
	Ant1	5825	8.79	≤30	≤30	10.8	---	PASS
	Ant2	5825	9.90	≤30	≤30	11.93	---	PASS
	total	5825	12.4	≤30	≤30	17.43	---	PASS
11N40MIMO	Ant1	5190	9.57	≤23.98	---	11.58	≤23	PASS
	Ant2	5190	10.66	≤23.98	---	12.69	≤23	PASS
	total	5190	13.2	≤23.98	---	18.23	≤23	PASS
	Ant1	5230	9.69	≤23.98	---	11.7	≤23	PASS
	Ant2	5230	10.23	≤23.98	---	12.26	≤23	PASS
	total	5230	13.0	≤23.98	---	18.03	≤23	PASS
	Ant1	5270	9.66	≤23.98	≤23.98	11.67	≤30	PASS
	Ant2	5270	10.11	≤23.98	≤23.98	12.14	≤30	PASS
	total	5270	12.9	≤23.98	≤23.98	17.93	≤30	PASS
	Ant1	5310	9.76	≤23.98	≤23.98	11.77	≤30	PASS
	Ant2	5310	9.96	≤23.98	≤23.98	11.99	≤30	PASS
	total	5310	12.9	≤23.98	≤23.98	17.93	≤30	PASS
	Ant1	5510	9.89	≤23.98	≤23.98	11.9	≤30	PASS
	Ant2	5510	11.20	≤23.98	≤23.98	13.23	≤30	PASS
	total	5510	13.6	≤23.98	≤23.98	18.63	≤30	PASS
	Ant1	5550	9.64	≤23.98	≤23.98	11.65	≤30	PASS
	Ant2	5550	11.51	≤23.98	≤23.98	13.54	≤30	PASS
	total	5550	13.7	≤23.98	≤23.98	18.73	≤30	PASS
	Ant1	5670	9.01	≤23.98	≤23.98	11.02	≤30	PASS
	Ant2	5670	11.67	≤23.98	≤23.98	13.7	≤30	PASS
	total	5670	13.6	≤23.98	≤23.98	18.63	≤30	PASS
	Ant1	5710_UNII-2C	8.81	≤23.98	≤23.98	10.82	≤30	PASS
	Ant2	5710_UNII-2C	11.09	≤23.98	≤23.98	13.12	≤30	PASS
	total	5710_UNII-2C	13.1	≤23.98	≤23.98	18.13	≤30	PASS
	Ant1	5710_UNII-3	-3.55	≤30	≤30	-1.54	---	PASS
	Ant2	5710_UNII-3	-1.10	≤30	≤30	0.93	---	PASS
	total	5710_UNII-3	0.9	≤30	≤30	5.93	---	PASS
	Ant1	5755	8.28	≤30	≤30	10.29	---	PASS
	Ant2	5755	10.55	≤30	≤30	12.58	---	PASS
	total	5755	12.6	≤30	≤30	17.63	---	PASS
	Ant1	5795	8.76	≤30	≤30	10.77	---	PASS
	Ant2	5795	10.15	≤30	≤30	12.18	---	PASS
	total	5795	12.5	≤30	≤30	17.53	---	PASS
11AC20MIMO	Ant1	5180	9.17	≤23.98	---	11.18	≤22.47	PASS
	Ant2	5180	10.39	≤23.98	---	12.42	≤22.48	PASS

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	total	5180	12.8	≤23.98	---	17.83	≤22.48	PASS
	Ant1	5200	9.25	≤23.98	---	11.26	≤22.46	PASS
	Ant2	5200	10.36	≤23.98	---	12.39	≤22.47	PASS
	total	5200	12.9	≤23.98	---	17.93	≤22.47	PASS
	Ant1	5240	9.48	≤23.98	---	11.49	≤22.46	PASS
	Ant2	5240	9.85	≤23.98	---	11.88	≤22.46	PASS
	total	5240	12.7	≤23.98	---	17.73	≤22.46	PASS
	Ant1	5260	9.37	≤23.98	≤23.48	11.38	≤29.48	PASS
	Ant2	5260	9.70	≤23.98	≤23.47	11.73	≤29.47	PASS
	total	5260	12.5	≤23.98	≤23.47	17.53	≤29.47	PASS
	Ant1	5280	9.37	≤23.98	≤23.48	11.38	≤29.48	PASS
	Ant2	5280	9.63	≤23.98	≤23.45	11.66	≤29.45	PASS
	total	5280	12.5	≤23.98	≤23.45	17.53	≤29.45	PASS
	Ant1	5320	9.67	≤23.98	≤23.46	11.68	≤29.46	PASS
	Ant2	5320	9.65	≤23.98	≤23.46	11.68	≤29.46	PASS
	total	5320	12.7	≤23.98	≤23.46	17.73	≤29.46	PASS
	Ant1	5500	9.99	≤23.98	≤23.47	12	≤29.47	PASS
	Ant2	5500	11.23	≤23.98	≤23.46	13.26	≤29.46	PASS
	total	5500	13.7	≤23.98	≤23.46	18.73	≤29.46	PASS
	Ant1	5580	9.33	≤23.98	≤23.46	11.34	≤29.46	PASS
	Ant2	5580	11.52	≤23.98	≤23.49	13.55	≤29.49	PASS
	total	5580	13.6	≤23.98	≤23.49	18.63	≤29.49	PASS
	Ant1	5700	8.84	≤23.98	≤23.46	10.85	≤29.46	PASS
	Ant2	5700	11.38	≤23.98	≤23.49	13.41	≤29.49	PASS
	total	5700	13.3	≤23.98	≤23.49	18.33	≤29.49	PASS
	Ant1	5720_UNII-2C	8.04	≤22.78	≤22.40	10.05	≤28.40	PASS
	Ant2	5720_UNII-2C	10.47	≤22.76	≤22.40	12.5	≤28.40	PASS
	total	5720_UNII-2C	12.4	≤22.76	≤22.40	17.43	≤28.40	PASS
	Ant1	5720_UNII-3	0.93	≤30	≤30	2.94	---	PASS
	Ant2	5720_UNII-3	3.24	≤30	≤30	5.27	---	PASS
	total	5720_UNII-3	5.2	≤30	≤30	10.23	---	PASS
	Ant1	5745	8.24	≤30	≤30	10.25	---	PASS
	Ant2	5745	10.60	≤30	≤30	12.63	---	PASS
	total	5745	12.6	≤30	≤30	17.63	---	PASS
	Ant1	5785	8.40	≤30	≤30	10.41	---	PASS
	Ant2	5785	10.24	≤30	≤30	12.27	---	PASS
	total	5785	12.4	≤30	≤30	17.43	---	PASS
	Ant1	5825	8.97	≤30	≤30	10.98	---	PASS
	Ant2	5825	9.94	≤30	≤30	11.97	---	PASS
	total	5825	12.5	≤30	≤30	17.53	---	PASS
11AC40MIMO	Ant1	5190	9.51	≤23.98	---	11.52	≤23	PASS
	Ant2	5190	10.49	≤23.98	---	12.52	≤23	PASS
	total	5190	13.0	≤23.98	---	18.03	≤23	PASS
	Ant1	5230	9.63	≤23.98	---	11.64	≤23	PASS
	Ant2	5230	10.19	≤23.98	---	12.22	≤23	PASS
	total	5230	12.9	≤23.98	---	17.93	≤23	PASS
	Ant1	5270	9.69	≤23.98	≤23.98	11.7	≤30	PASS
	Ant2	5270	10.06	≤23.98	≤23.98	12.09	≤30	PASS
	total	5270	12.9	≤23.98	≤23.98	17.93	≤30	PASS
	Ant1	5310	9.99	≤23.98	≤23.98	12	≤30	PASS
	Ant2	5310	9.99	≤23.98	≤23.98	12.02	≤30	PASS
	total	5310	13.0	≤23.98	≤23.98	18.03	≤30	PASS
	Ant1	5510	10.08	≤23.98	≤23.98	12.09	≤30	PASS
	Ant2	5510	11.41	≤23.98	≤23.98	13.44	≤30	PASS
	total	5510	13.8	≤23.98	≤23.98	18.83	≤30	PASS
	Ant1	5550	9.83	≤23.98	≤23.98	11.84	≤30	PASS
	Ant2	5550	11.60	≤23.98	≤23.98	13.63	≤30	PASS
	total	5550	13.8	≤23.98	≤23.98	18.83	≤30	PASS

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	Ant1	5670	9.04	≤23.98	≤23.98	11.05	≤30	PASS
	Ant2	5670	11.77	≤23.98	≤23.98	13.8	≤30	PASS
	total	5670	13.6	≤23.98	≤23.98	18.63	≤30	PASS
	Ant1	5710_UNII-2C	8.91	≤23.98	≤23.98	10.92	≤30	PASS
	Ant2	5710_UNII-2C	11.41	≤23.98	≤23.98	13.44	≤30	PASS
	total	5710_UNII-2C	13.3	≤23.98	≤23.98	18.33	≤30	PASS
	Ant1	5710_UNII-3	-3.40	≤30	≤30	-1.39	---	PASS
	Ant2	5710_UNII-3	-0.76	≤30	≤30	1.27	---	PASS
	total	5710_UNII-3	1.1	≤30	≤30	6.13	---	PASS
	Ant1	5755	8.49	≤30	≤30	10.5	---	PASS
	Ant2	5755	10.77	≤30	≤30	12.8	---	PASS
	total	5755	12.8	≤30	≤30	17.83	---	PASS
	Ant1	5795	8.79	≤30	≤30	10.8	---	PASS
	Ant2	5795	10.31	≤30	≤30	12.34	---	PASS
	total	5795	12.6	≤30	≤30	17.63	---	PASS
11AC80MIMO	Ant1	5210	13.38	≤23.98	---	15.39	≤23	PASS
	Ant2	5210	13.99	≤23.98	---	16.02	≤23	PASS
	total	5210	16.7	≤23.98	---	21.73	≤23	PASS
	Ant1	5290	13.71	≤23.98	≤23.98	15.72	≤30	PASS
	Ant2	5290	13.82	≤23.98	≤23.98	15.85	≤30	PASS
	total	5290	16.8	≤23.98	≤23.98	21.83	≤30	PASS
	Ant1	5530	13.07	≤23.98	≤23.98	15.08	≤30	PASS
	Ant2	5530	14.58	≤23.98	≤23.98	16.61	≤30	PASS
	total	5530	16.9	≤23.98	≤23.98	21.93	≤30	PASS
	Ant1	5610	12.35	≤23.98	≤23.98	14.36	≤30	PASS
	Ant2	5610	14.88	≤23.98	≤23.98	16.91	≤30	PASS
	total	5610	16.81	≤23.98	≤23.98	21.84	≤30	PASS
	Ant1	5690_UNII-2C	12.31	≤23.98	≤23.98	14.32	≤30	PASS
	Ant2	5690_UNII-2C	14.99	≤23.98	≤23.98	17.02	≤30	PASS
	total	5690_UNII-2C	16.86	≤23.98	≤23.98	21.89	≤30	PASS
	Ant1	5690_UNII-3	-3.04	≤30	≤30	-1.03	---	PASS
	Ant2	5690_UNII-3	-0.39	≤30	≤30	1.64	---	PASS
	total	5690_UNII-3	1.49	≤30	≤30	6.52	---	PASS
	Ant1	5775	12.13	≤30	≤30	14.14	---	PASS
	Ant2	5775	13.94	≤30	≤30	15.97	---	PASS
	total	5775	16.1	≤30	≤30	21.13	---	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

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13.5. Appendix C: Maximum power spectral density

13.5.1. Test Result

Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant2	5180	4.42	≤11	6.45	≤10	PASS
		5200	3.85	≤11	5.88	≤10	PASS
		5240	3.33	≤11	5.36	≤10	PASS
		5260	3.22	≤11	---	---	PASS
		5280	3.34	≤11	---	---	PASS
		5320	3.4	≤11	---	---	PASS
		5500	4.36	≤11	---	---	PASS
		5580	4.25	≤11	---	---	PASS
		5700	4.38	≤11	---	---	PASS
		5720_UNII-2C	4.25	≤11	---	---	PASS
		5720_UNII-3	-0.82	≤11	---	---	PASS
		5745	1.11	≤30	---	---	PASS
		5785	1.19	≤30	---	---	PASS
		5825	0.79	≤30	---	---	PASS
11AC20MIMO	Ant1	5180	-0.65	≤11	4.39	≤10	PASS
	Ant2	5180	0.27	≤11	5.31	≤10	PASS
	total	5180	2.84	≤11	7.88	≤10	PASS
	Ant1	5200	-0.88	≤11	4.16	≤10	PASS
	Ant2	5200	0.09	≤11	5.13	≤10	PASS
	total	5200	2.64	≤11	7.68	≤10	PASS
	Ant1	5240	-0.58	≤11	4.46	≤10	PASS
	Ant2	5240	-0.36	≤11	4.68	≤10	PASS
	total	5240	2.54	≤11	7.58	≤10	PASS
	Ant1	5260	-0.79	≤11	---	---	PASS
	Ant2	5260	-0.45	≤11	---	---	PASS
	total	5260	2.39	≤11	---	---	PASS
	Ant1	5280	-0.96	≤11	---	---	PASS
	Ant2	5280	-0.72	≤11	---	---	PASS
	total	5280	2.17	≤11	---	---	PASS
	Ant1	5320	-0.24	≤11	---	---	PASS
	Ant2	5320	-0.57	≤11	---	---	PASS
	total	5320	2.61	≤11	---	---	PASS
	Ant1	5500	-0.25	≤11	---	---	PASS
	Ant2	5500	1.12	≤11	---	---	PASS
	total	5500	3.50	≤11	---	---	PASS
	Ant1	5580	-0.84	≤11	---	---	PASS
	Ant2	5580	1.35	≤11	---	---	PASS
	total	5580	3.40	≤11	---	---	PASS
	Ant1	5700	-1.42	≤11	---	---	PASS
	Ant2	5700	1.06	≤11	---	---	PASS
	total	5700	3.00	≤11	---	---	PASS
	Ant1	5720_UNII-2C	-1.50	≤11	---	---	PASS
	Ant2	5720_UNII-2C	1.28	≤11	---	---	PASS
	total	5720_UNII-2C	3.12	≤11	---	---	PASS
	Ant1	5720_UNII-3	-5.84	≤11	---	---	PASS
	Ant2	5720_UNII-3	-3.67	≤11	---	---	PASS
	total	5720_UNII-3	-1.61	≤11	---	---	PASS
	Ant1	5745	-4.6	≤30	---	---	PASS
	Ant2	5745	-2.42	≤30	---	---	PASS

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	total	5745	-0.36	≤30	---	---	PASS
	Ant1	5785	-4.07	≤30	---	---	PASS
	Ant2	5785	-2.83	≤30	---	---	PASS
	total	5785	-0.40	≤30	---	---	PASS
	Ant1	5825	-4.17	≤30	---	---	PASS
	Ant2	5825	-3.18	≤30	---	---	PASS
	total	5825	-0.64	≤30	---	---	PASS
11AC40MIMO	Ant1	5190	-3.72	≤11	1.32	≤10	PASS
	Ant2	5190	-2.74	≤11	2.30	≤10	PASS
	total	5190	-0.19	≤11	4.85	≤10	PASS
	Ant1	5230	-3.5	≤11	1.54	≤10	PASS
	Ant2	5230	-2.85	≤11	2.19	≤10	PASS
	total	5230	-0.15	≤11	4.89	≤10	PASS
	Ant1	5270	-3.29	≤11	---	---	PASS
	Ant2	5270	-3.35	≤11	---	---	PASS
	total	5270	-0.31	≤11	---	---	PASS
	Ant1	5310	-3.02	≤11	---	---	PASS
	Ant2	5310	-3.36	≤11	---	---	PASS
	total	5310	-0.18	≤11	---	---	PASS
	Ant1	5510	-3.36	≤11	---	---	PASS
	Ant2	5510	-2.04	≤11	---	---	PASS
	total	5510	0.36	≤11	---	---	PASS
	Ant1	5550	-3.17	≤11	---	---	PASS
	Ant2	5550	-1.63	≤11	---	---	PASS
	total	5550	0.68	≤11	---	---	PASS
	Ant1	5670	-4.2	≤11	---	---	PASS
	Ant2	5670	-1.46	≤11	---	---	PASS
	total	5670	0.39	≤11	---	---	PASS
	Ant1	5710_UNII-2C	-4.08	≤11	---	---	PASS
	Ant2	5710_UNII-2C	-1.45	≤11	---	---	PASS
	total	5710_UNII-2C	0.44	≤11	---	---	PASS
	Ant1	5710_UNII-3	-10.19	≤11	---	---	PASS
	Ant2	5710_UNII-3	-7.34	≤11	---	---	PASS
	total	5710_UNII-3	-5.53	≤11	---	---	PASS
	Ant1	5755	-7.21	≤30	---	---	PASS
	Ant2	5755	-5.37	≤30	---	---	PASS
	total	5755	-3.18	≤30	---	---	PASS
	Ant1	5795	-7.27	≤30	---	---	PASS
	Ant2	5795	-5.47	≤30	---	---	PASS
	total	5795	-3.27	≤30	---	---	PASS
11AC80MIMO	Ant1	5210	-2.59	≤11	2.45	≤10	PASS
	Ant2	5210	-1.51	≤11	3.53	≤10	PASS
	total	5210	0.99	≤11	6.03	≤10	PASS
	Ant1	5290	-2.07	≤11	---	---	PASS
	Ant2	5290	-2.7	≤11	---	---	PASS
	total	5290	0.63	≤11	---	---	PASS
	Ant1	5530	-3.04	≤11	---	---	PASS
	Ant2	5530	-1.26	≤11	---	---	PASS
	total	5530	0.95	≤11	---	---	PASS
	Ant1	5610	-3.22	≤11	---	---	PASS
	Ant2	5610	-0.83	≤11	---	---	PASS
	total	5610	1.15	≤11	---	---	PASS
	Ant1	5690_UNII-2C	-3.76	≤11	---	---	PASS
	Ant2	5690_UNII-2C	-0.99	≤11	---	---	PASS
	total	5690_UNII-2C	0.85	≤11	---	---	PASS

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	Ant1	5690_UNII-3	-10.12	≤11	---	---	PASS
	Ant2	5690_UNII-3	-6.63	≤11	---	---	PASS
	total	5690_UNII-3	-5.02	≤11	---	---	PASS
	Ant1	5775	-6.7	≤30	---	---	PASS
	Ant2	5775	-4.91	≤30	---	---	PASS
	total	5775	-2.71	≤30	---	---	PASS

Note: Both the ANT1 and ANT2 had been tested, only the worst data was recorded in the report.

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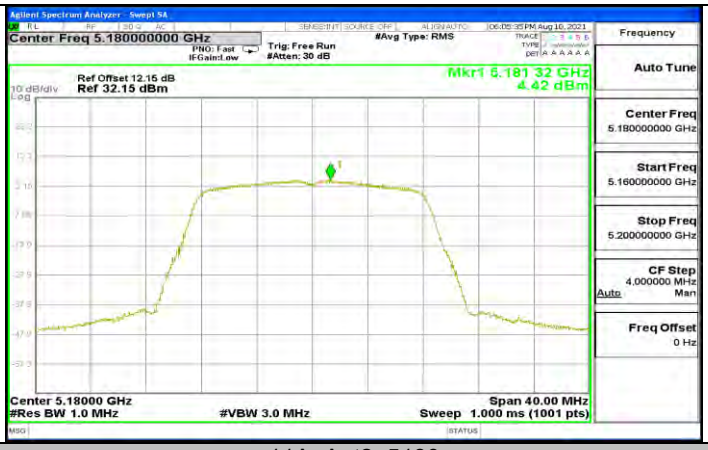
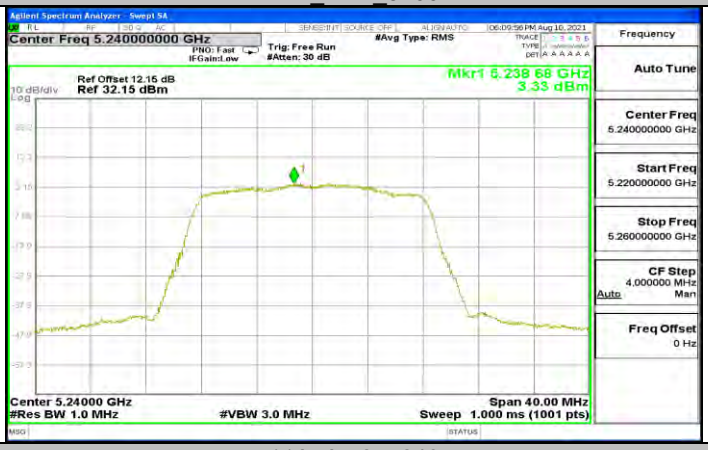
13.5.2. Test Graphs



11A_Ant2_5180

11A_Ant2_5200



11A_Ant2_5240

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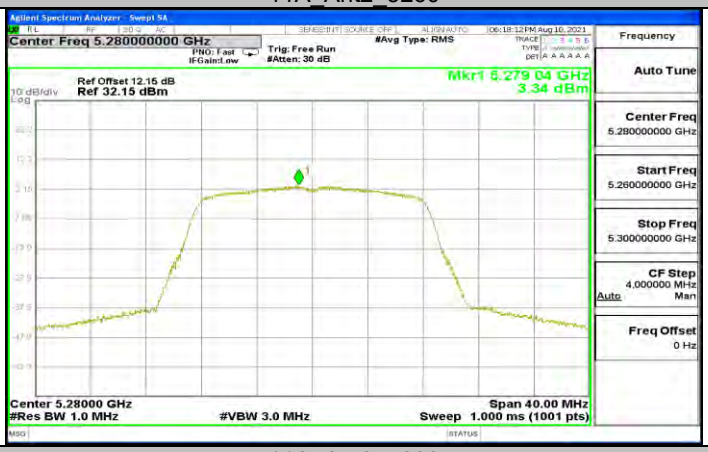
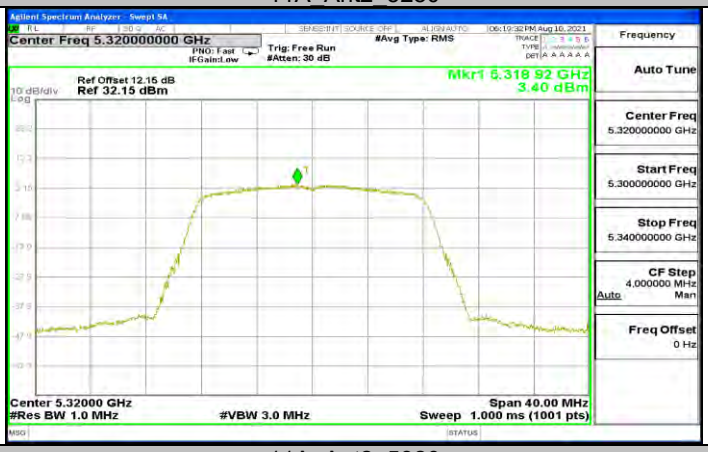
11A_Ant2_5260



11A_Ant2_5280



11A_Ant2_5320

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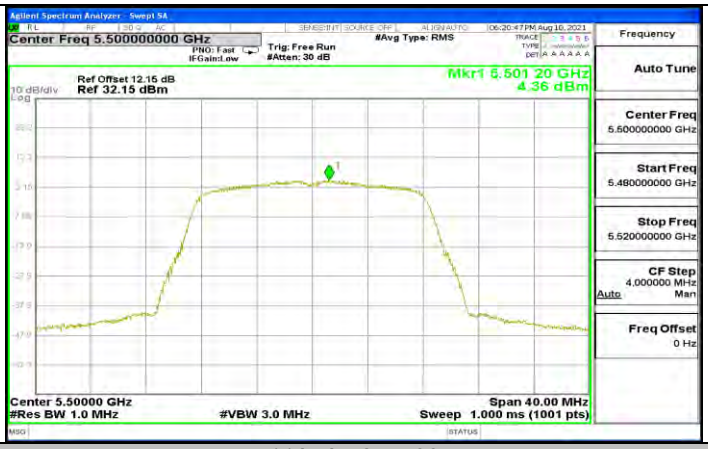
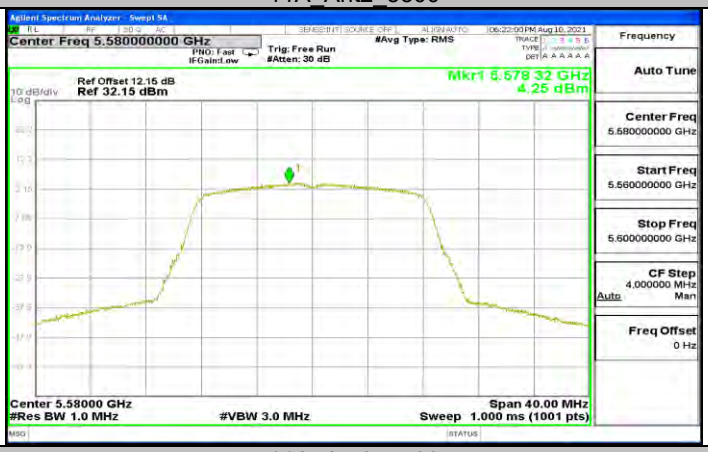
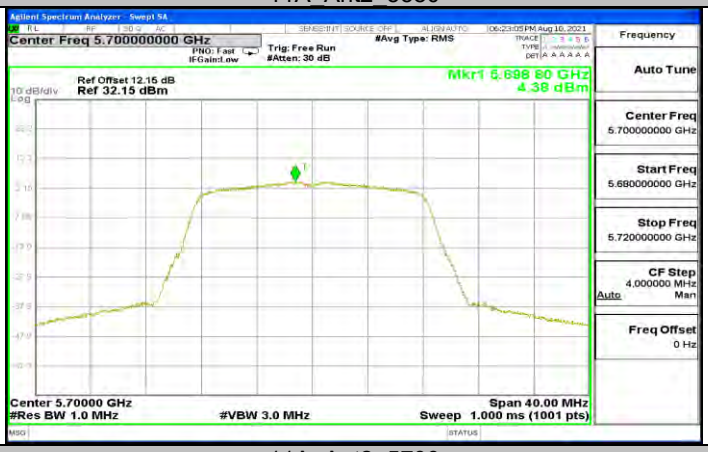


11A_Ant2_5500



11A_Ant2_5580



11A_Ant2_5700

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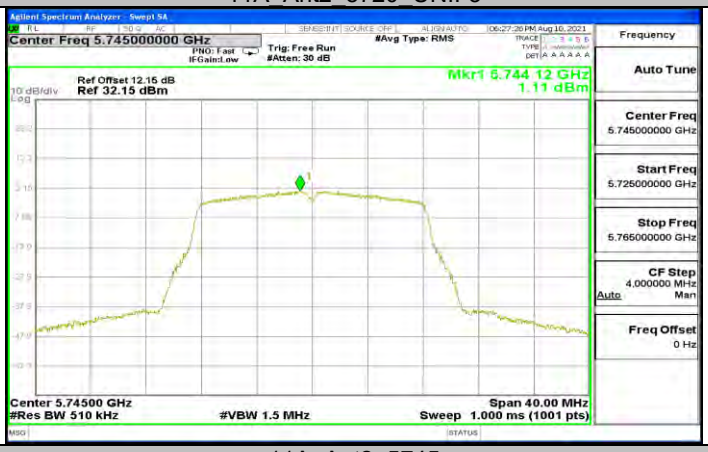
11A_Ant2_5720_UNII-2C

11A_Ant2_5720_UNII-3



11A_Ant2_5745

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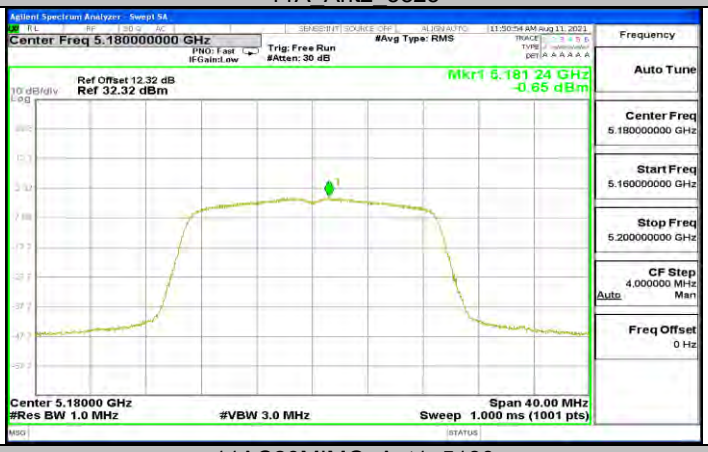
11A_Ant2_5785

11A_Ant2_5825



11AC20MIMO_Ant1_5180

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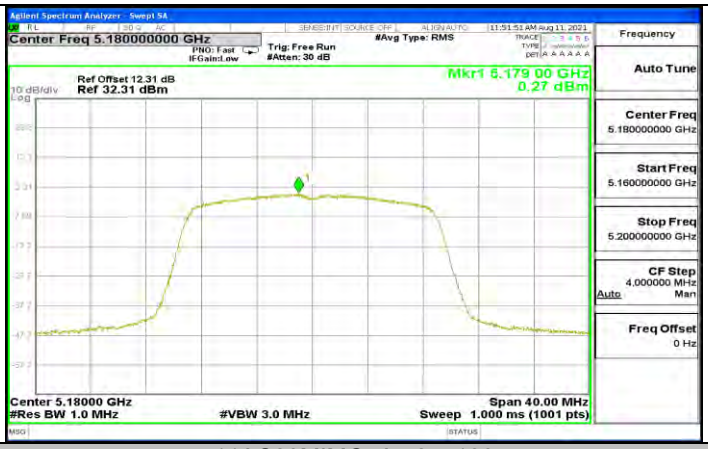
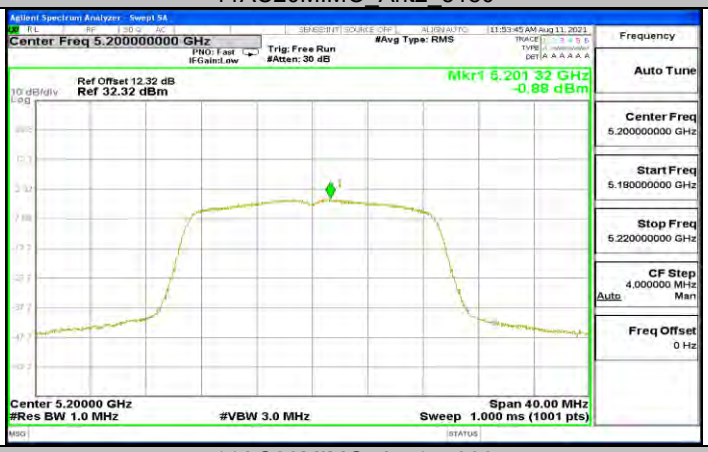
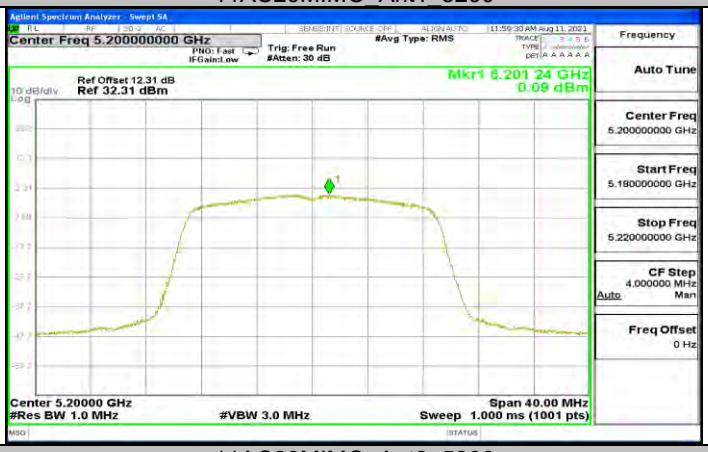


11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



11AC20MIMO_Ant2_5200

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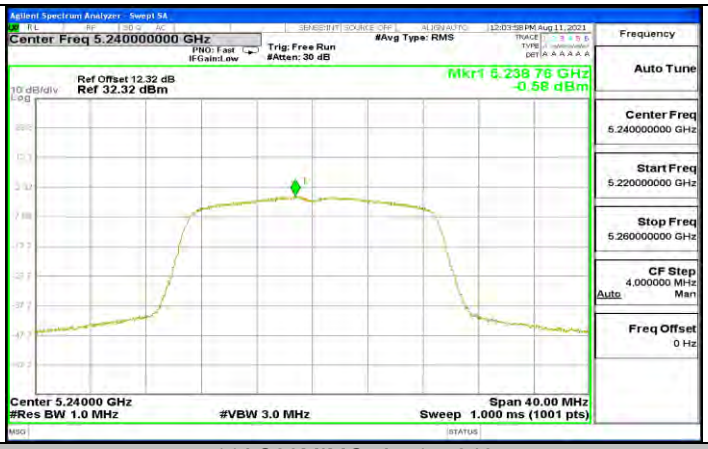
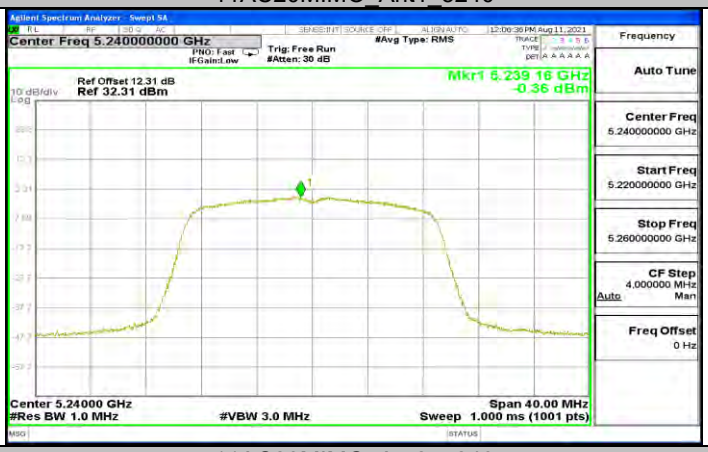
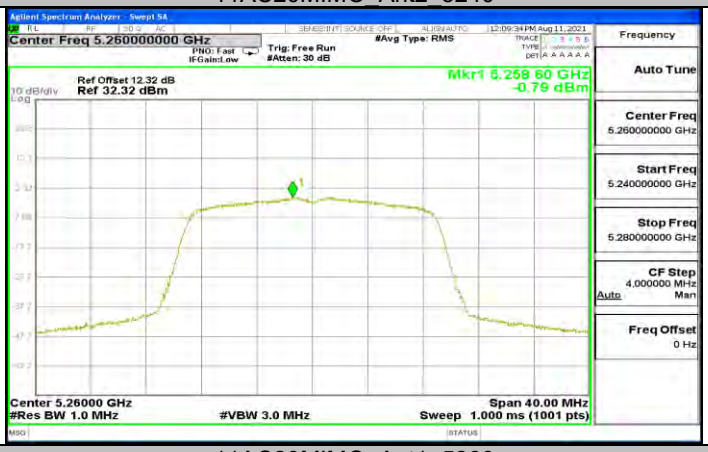


11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5260

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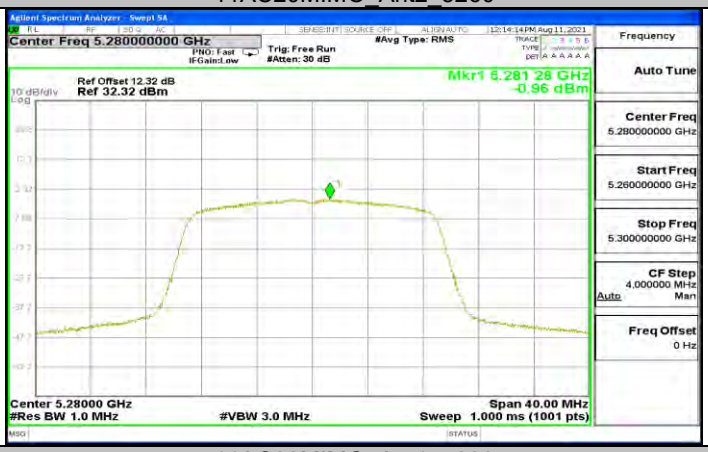
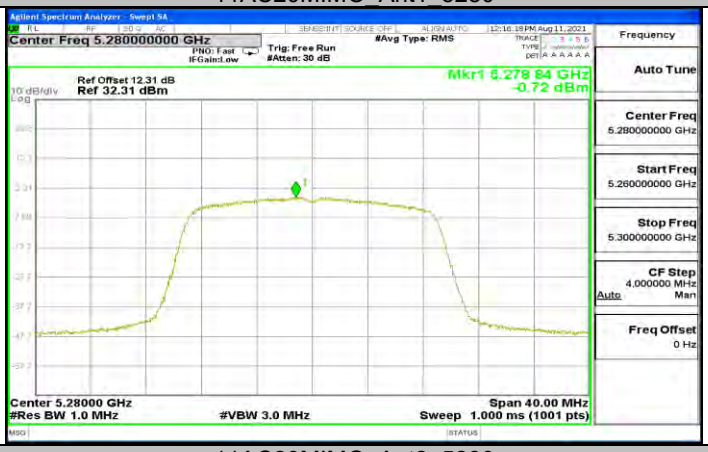
11AC20MIMO_Ant2_5260



11AC20MIMO_Ant1_5280



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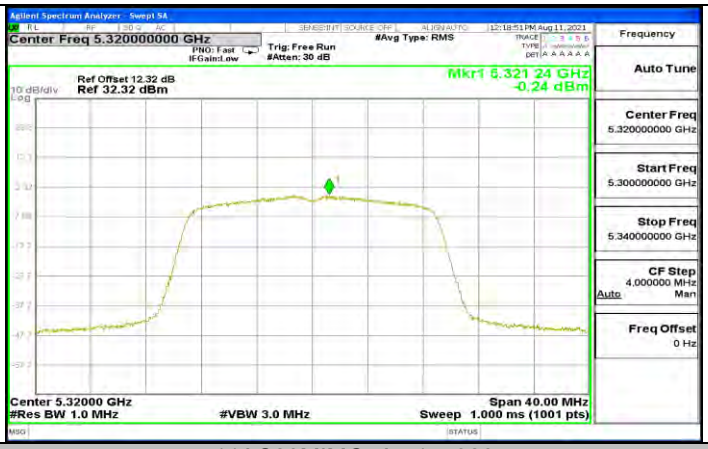

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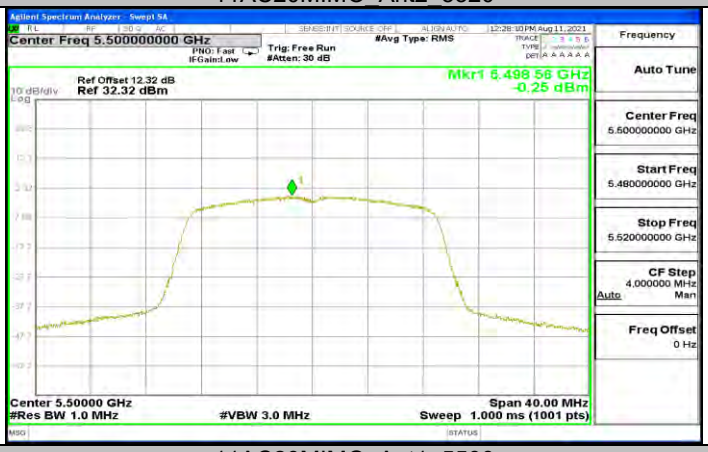

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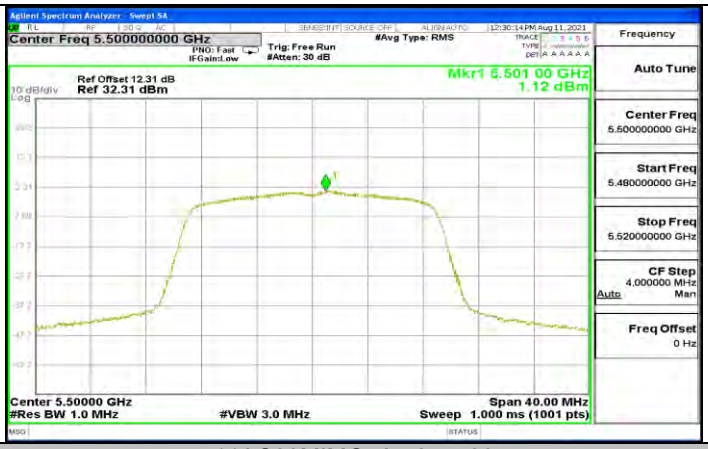

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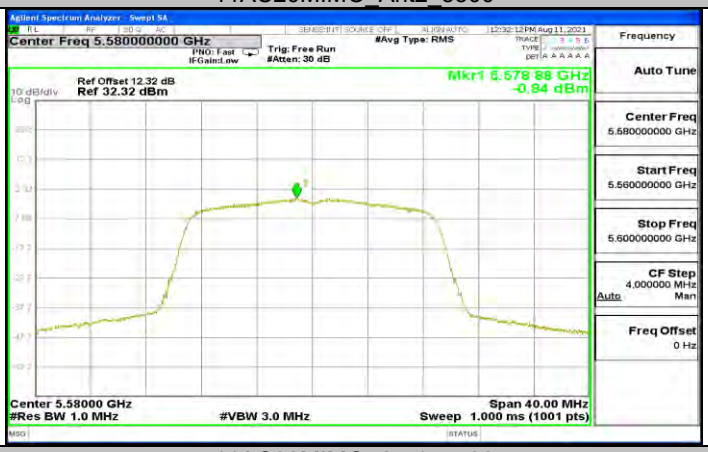

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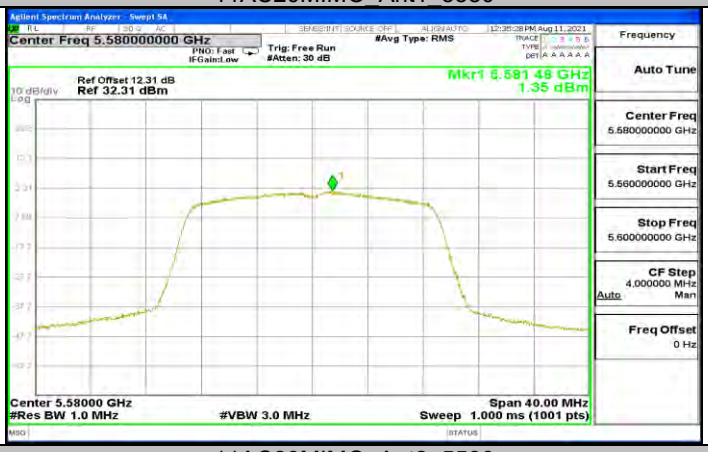

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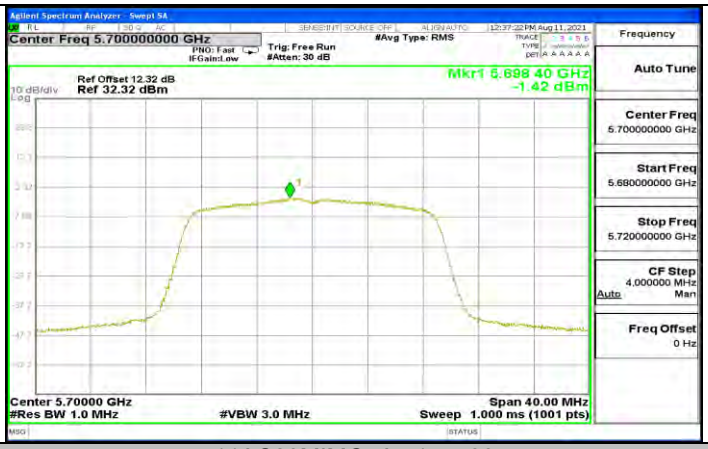

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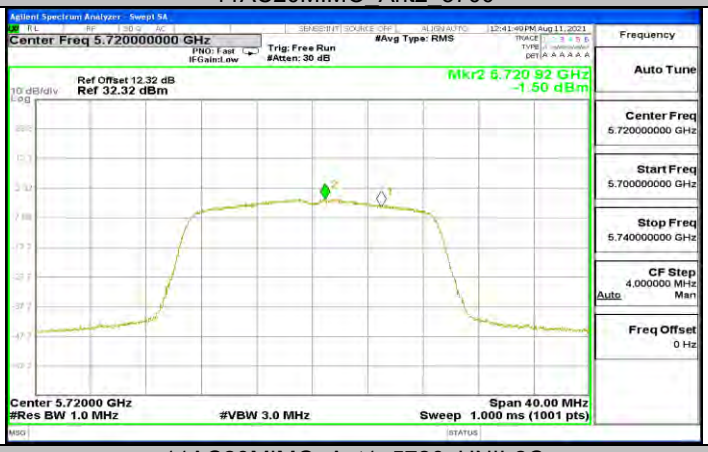

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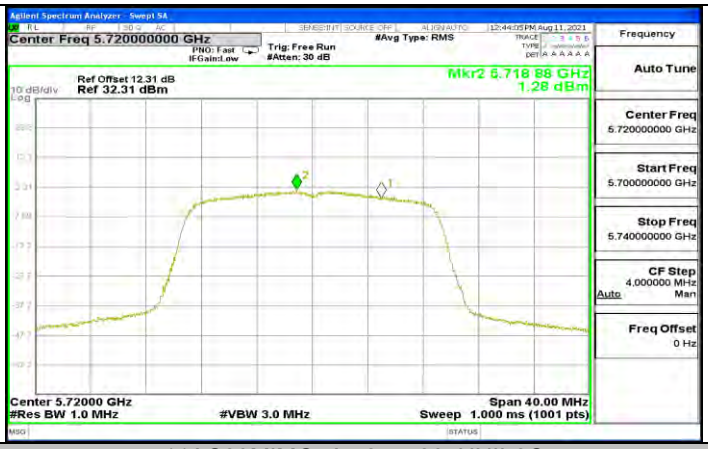

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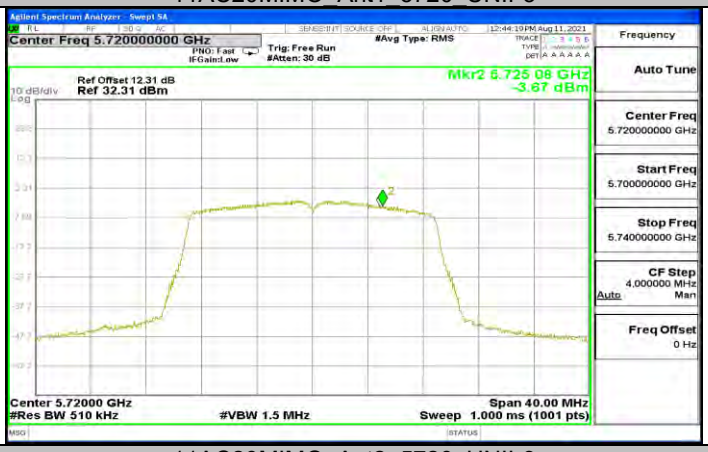

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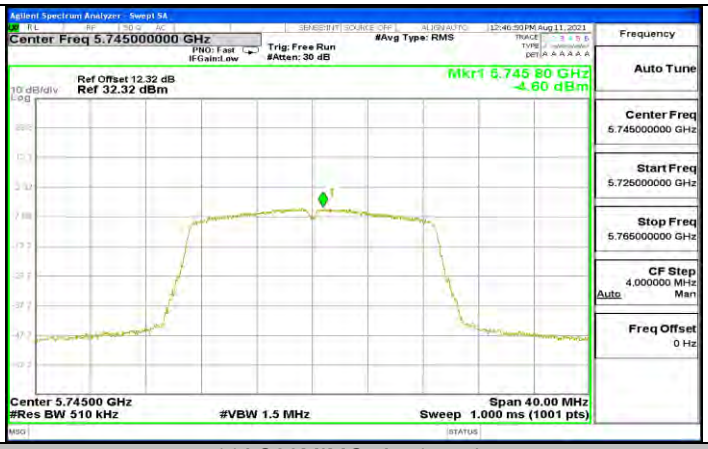

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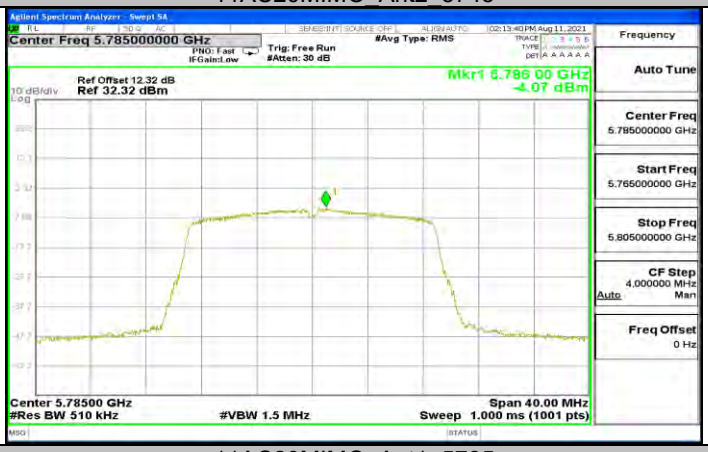

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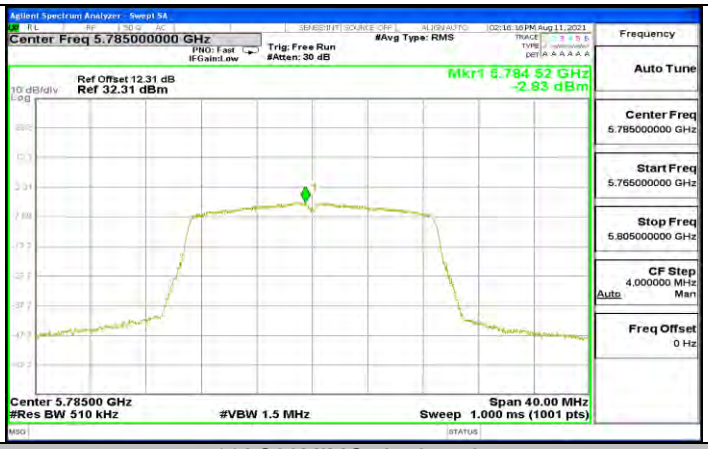

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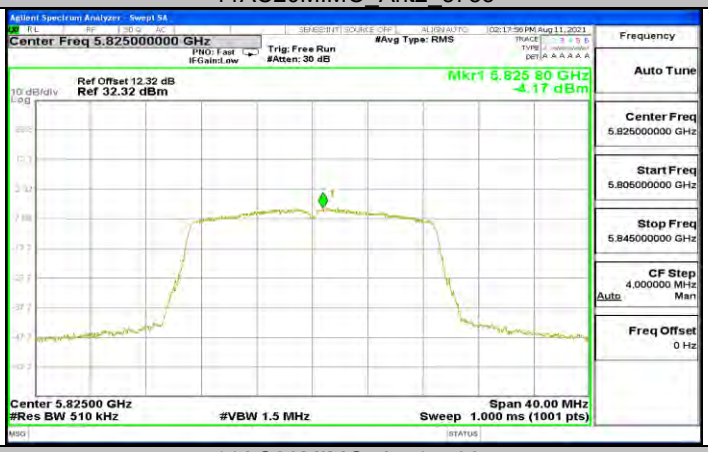

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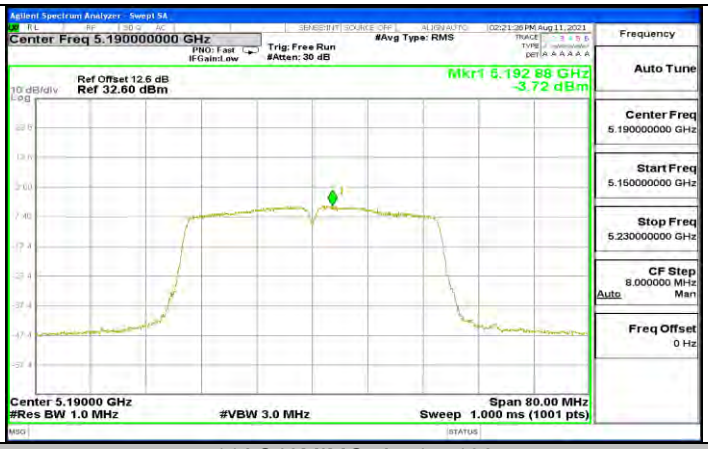

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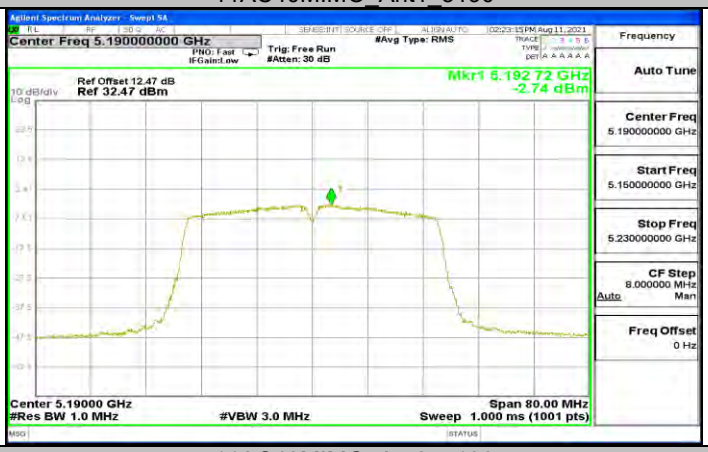

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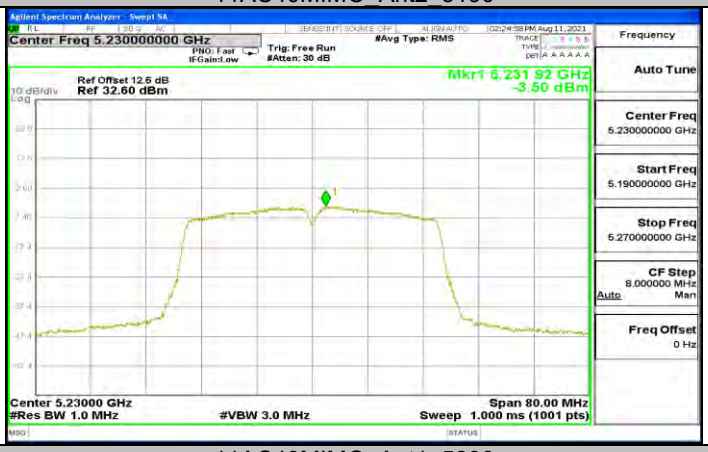

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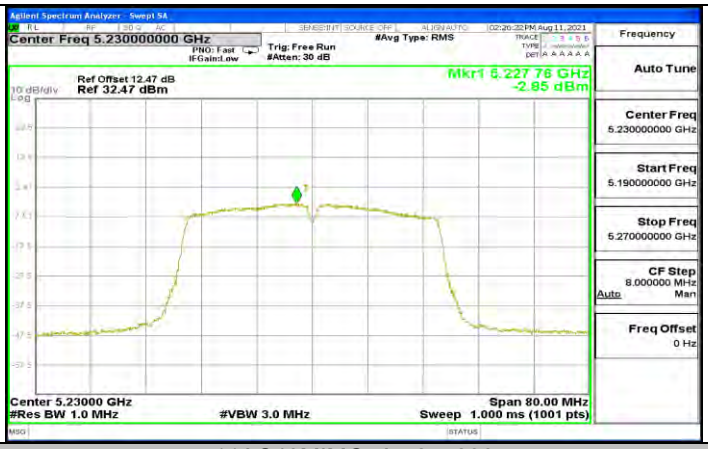

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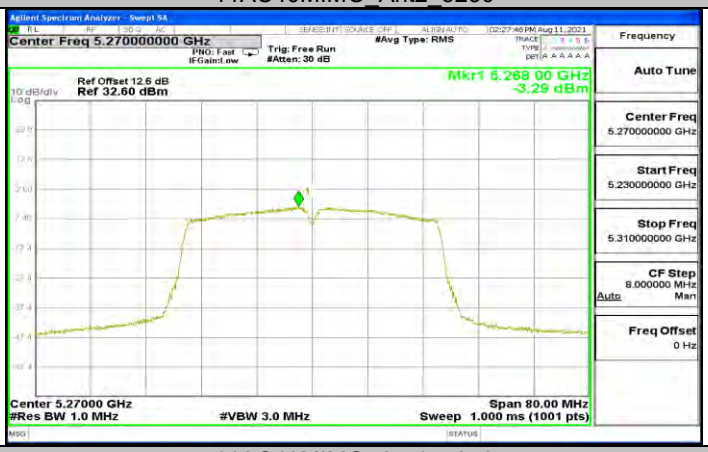

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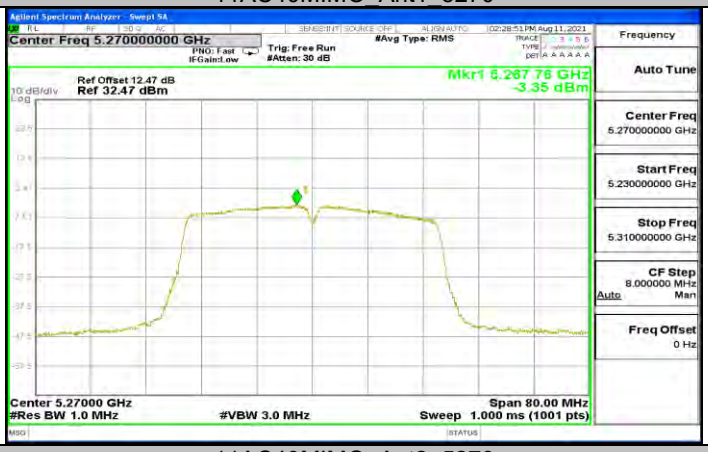

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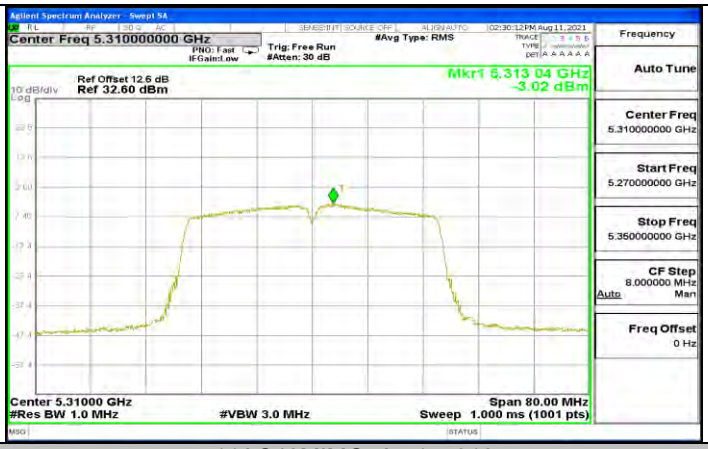

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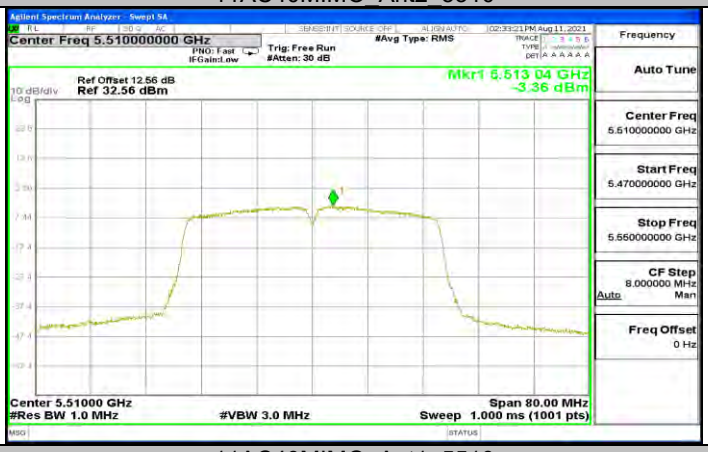

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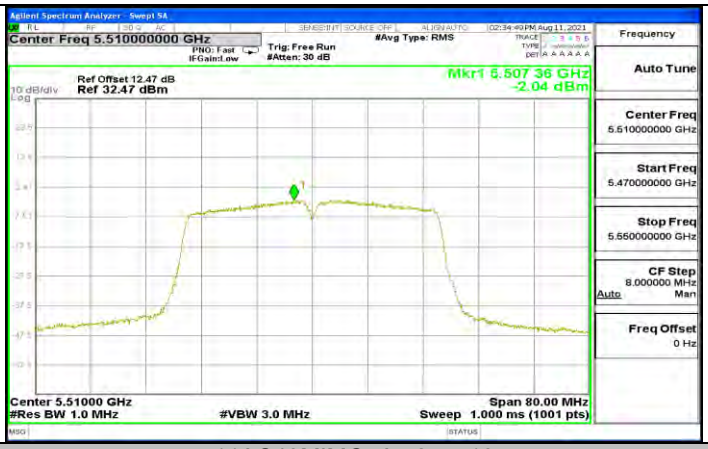

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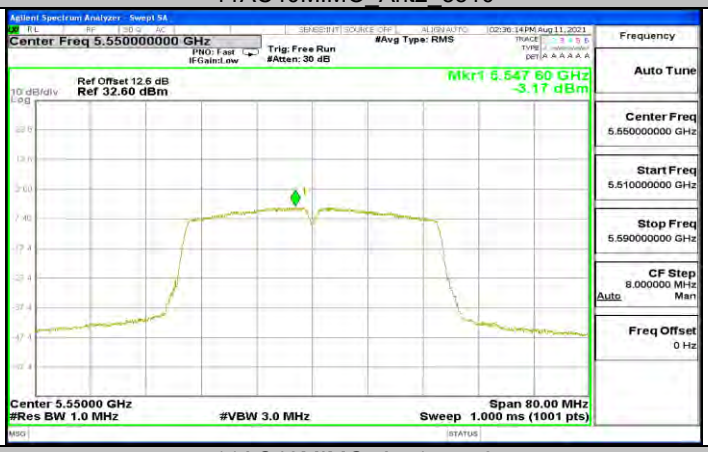

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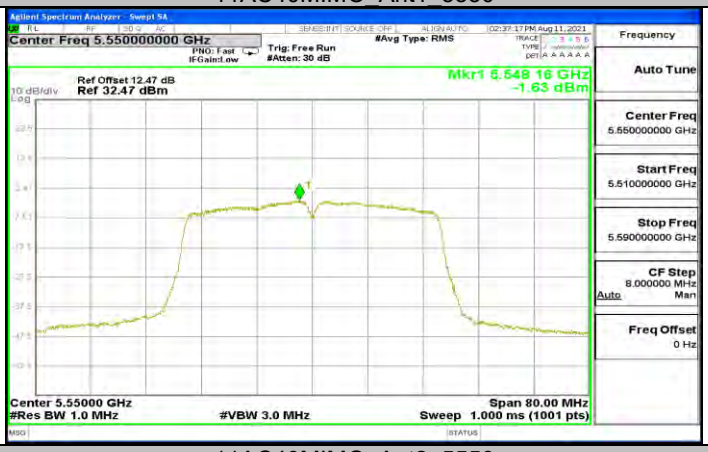

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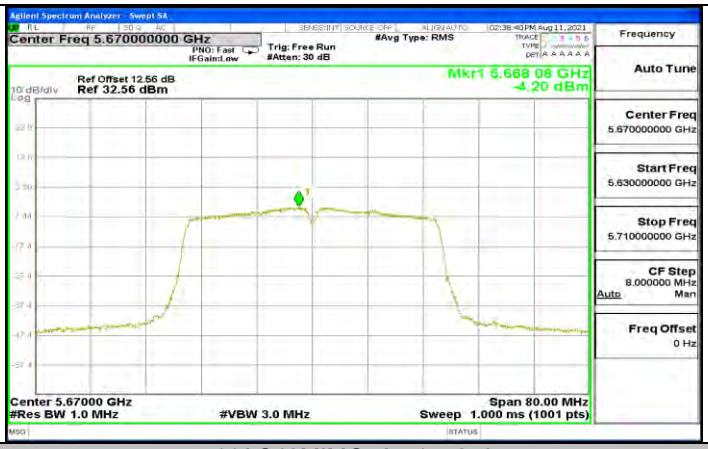

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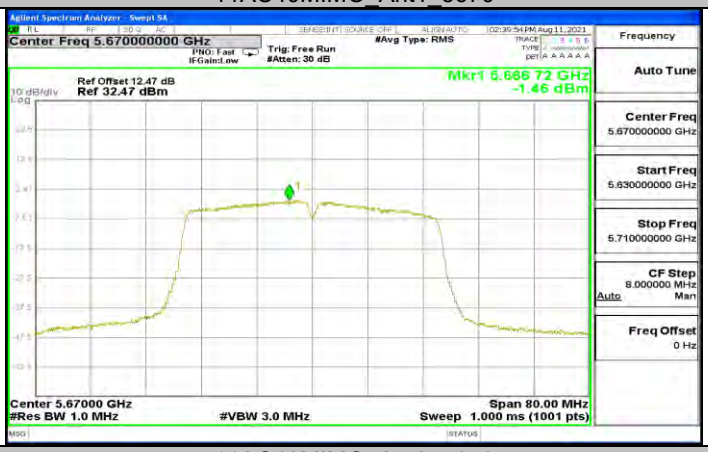

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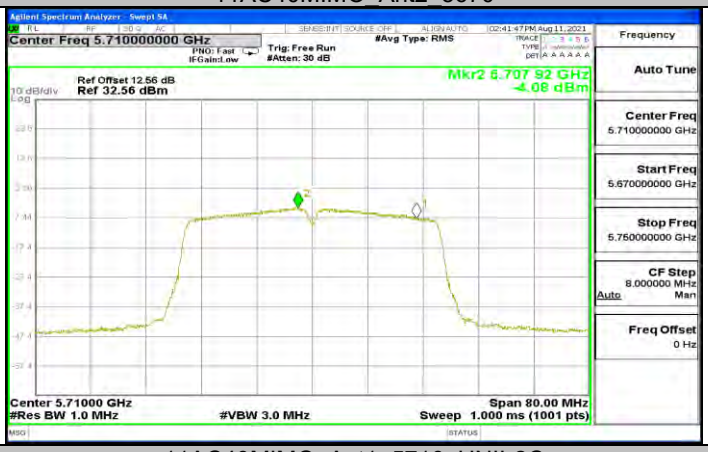

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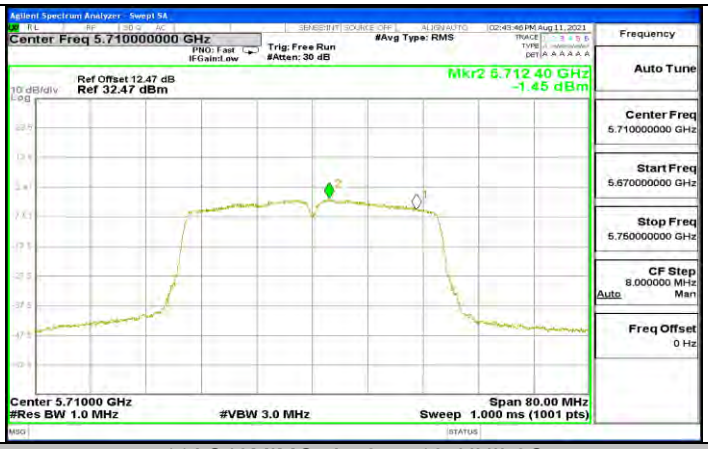

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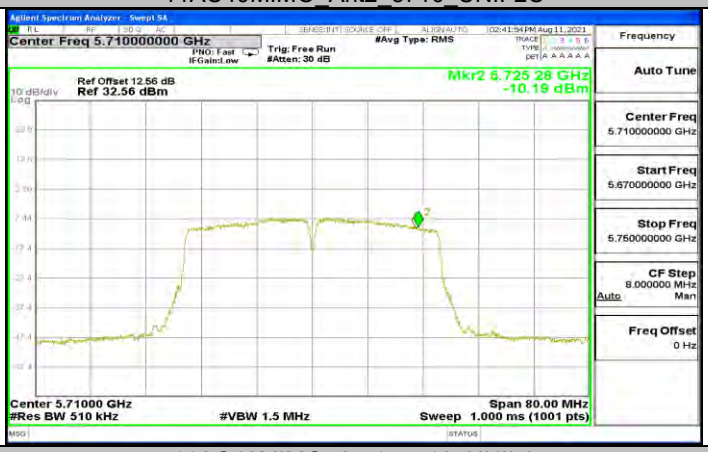

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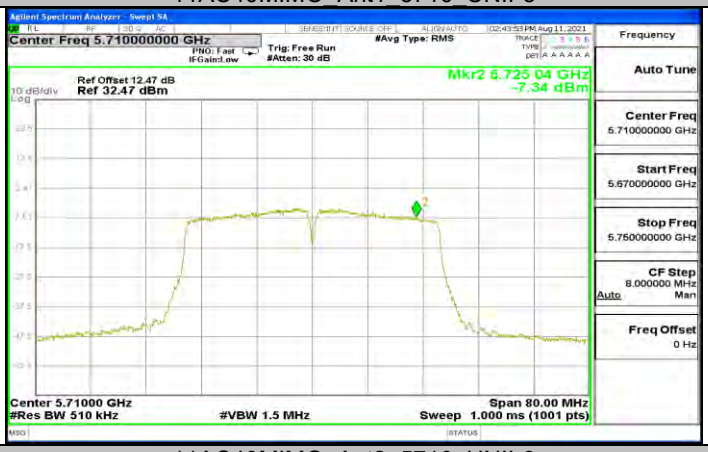

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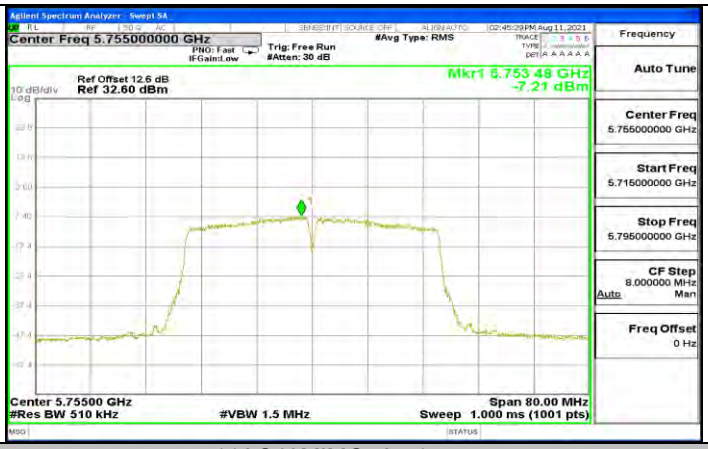

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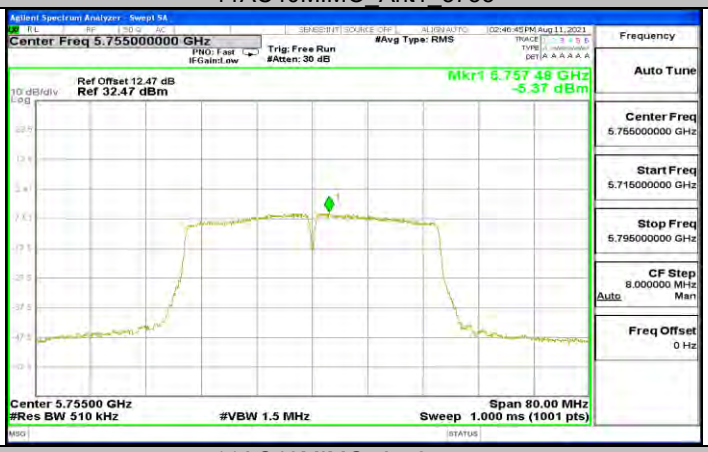

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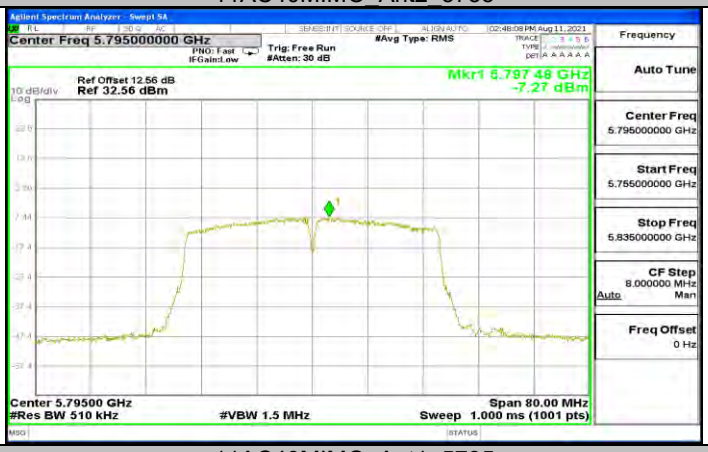

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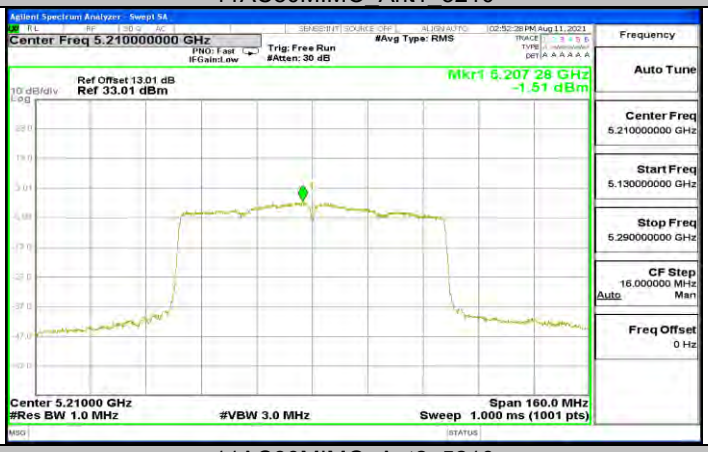

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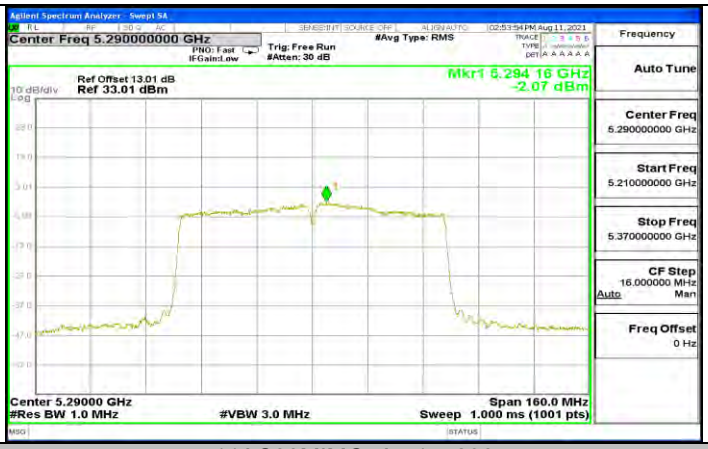

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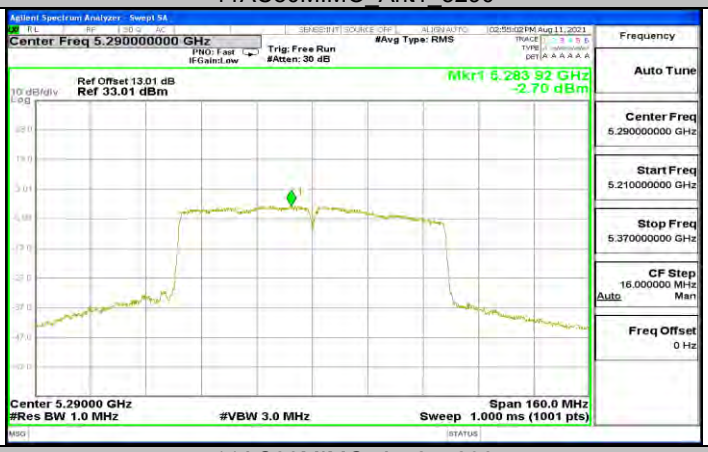

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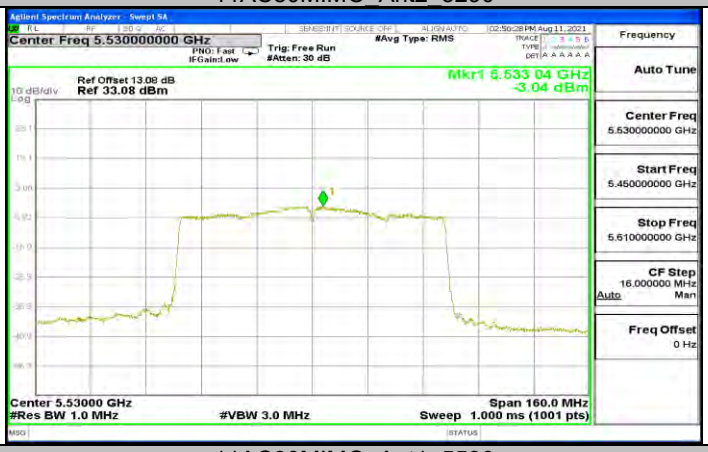

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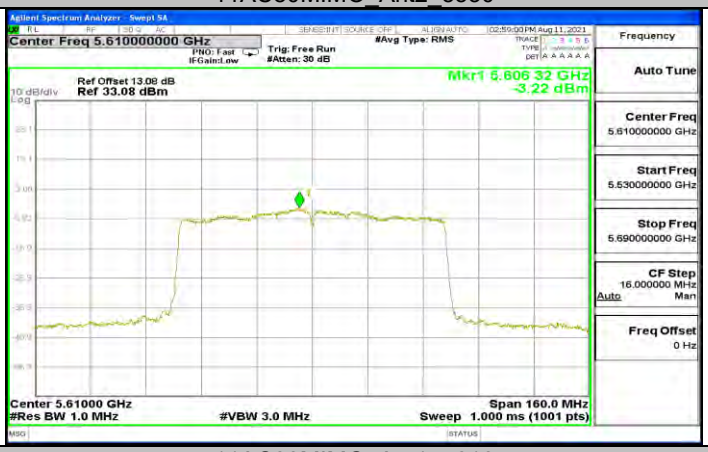

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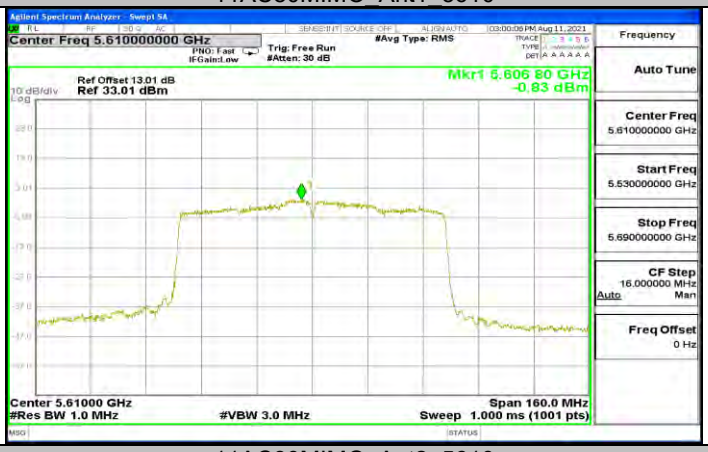

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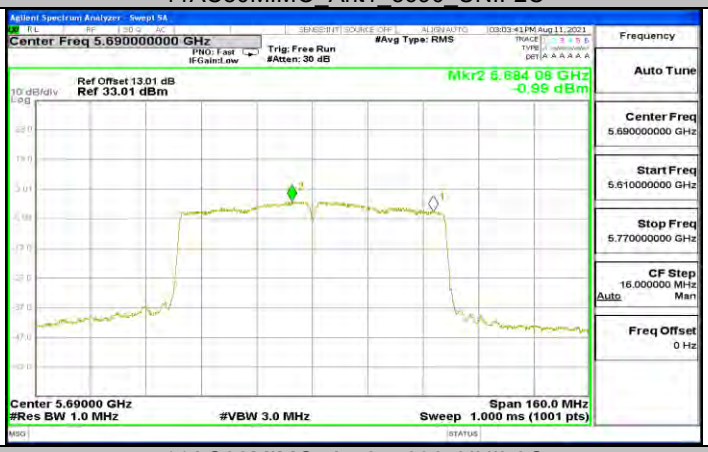

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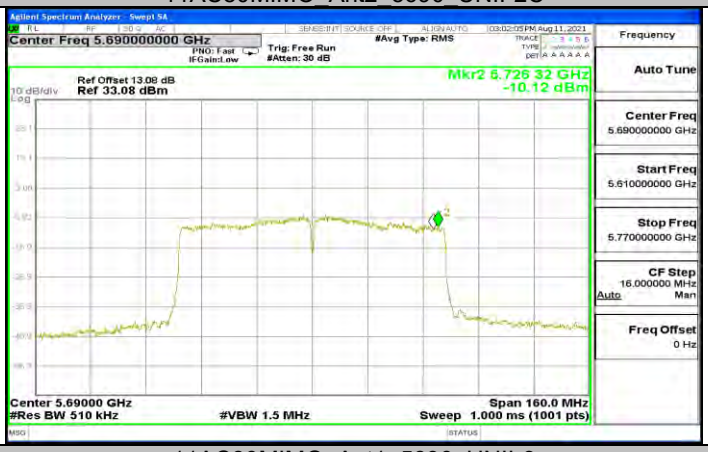

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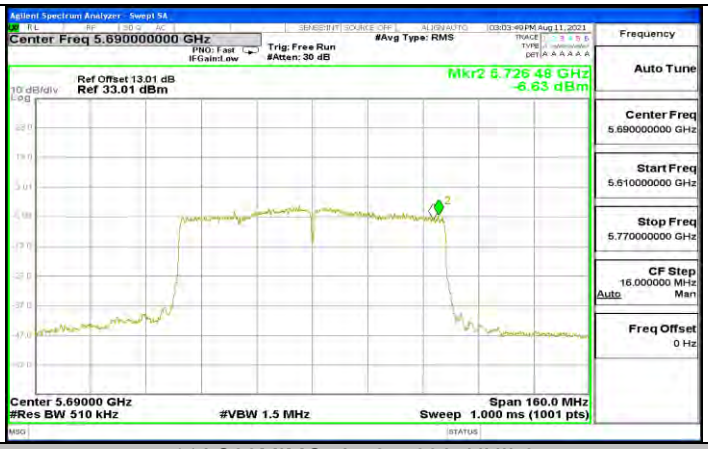

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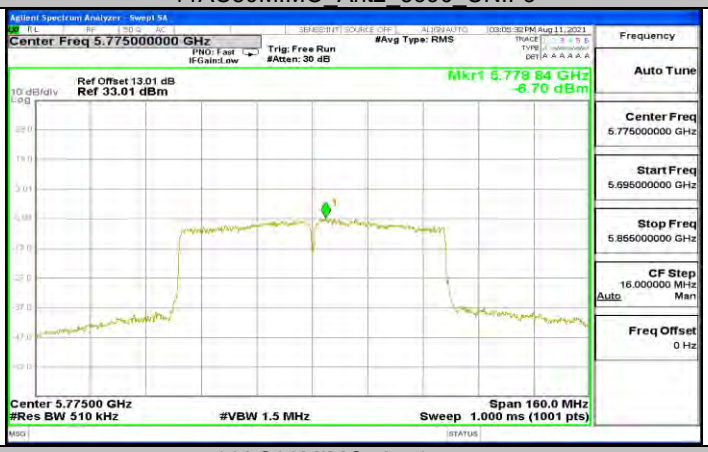

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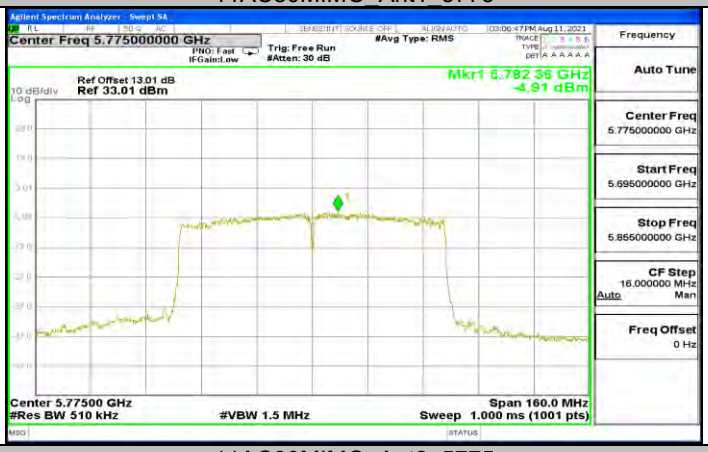

11AC80MIMO_Ant2_5775

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13.6. Appendix D: Duty Cycle

13.6.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.39	1.44	0.9653	96.53	0.15	0.72	1
11AC20MIMO	0.68	0.73	0.9315	93.15	0.31	1.47	1.5
11AC40MIMO	0.35	0.39	0.8974	89.74	0.47	2.86	3
11AC80MIMO	0.19	0.24	0.7917	79.17	1.01	5.26	6

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

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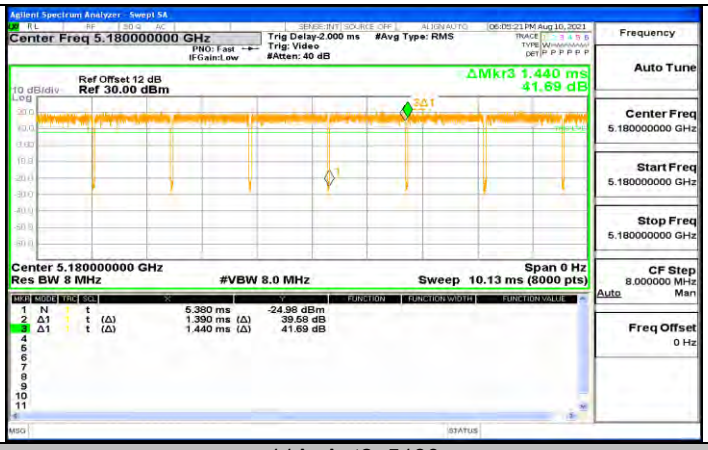
13.6.2. Test Graphs



11A_Ant2_5180

11AC20MIMO_Ant2_5180

11AC40MIMO_Ant2_5190

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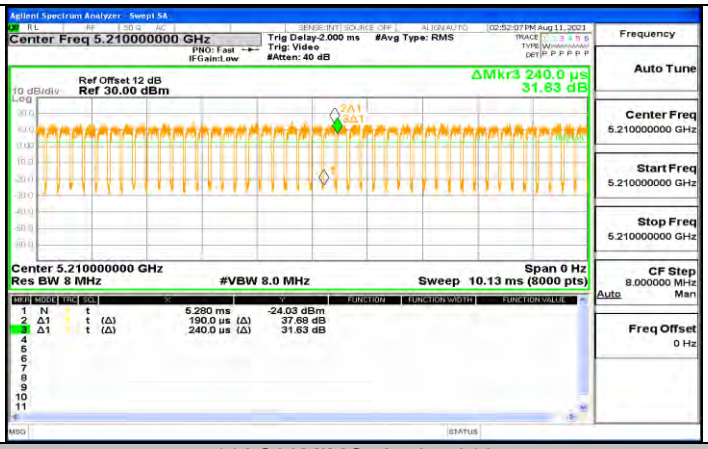

11AC80MIMO_Ant2_5210

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13.7. Appendix E: Frequency Stability

13.7.1. Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5200.0019	0.37	5200.0094	1.81	5199.9939	-1.17	5200.0085	1.64
TN	VN	5200.0032	0.62	5200.0216	4.16	5199.9836	-3.15	5199.9872	-2.46
TN	VH	5200.0190	3.66	5199.9926	-1.43	5199.9937	-1.21	5199.9774	-4.35
Frequency Error vs. Temperature									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5199.9849	-2.90	5199.9826	-3.36	5200.0158	3.04	5199.9959	-0.79
30	VN	5199.9926	-1.42	5199.9932	-1.30	5199.9904	-1.85	5200.0112	2.15
20	VN	5199.9809	-3.67	5200.0068	1.31	5200.0024	0.47	5200.0185	3.55
10	VN	5199.9969	-0.60	5199.9906	-1.80	5200.0119	2.29	5199.9893	-2.05
0	VN	5200.0081	1.55	5199.9829	-3.30	5200.0055	1.06	5200.0093	1.78

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Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0024	0.41	5824.9760	-4.12	5824.9878	-2.09	5824.9840	-2.75
TN	VN	5825.0235	4.03	5824.9844	-2.67	5825.0132	2.26	5825.0051	0.88
TN	VH	5825.0208	3.56	5825.0212	3.64	5825.0001	0.01	5824.9876	-2.13
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5824.9808	-3.30	5825.0151	2.60	5825.0153	2.62	5824.9813	-3.20
30	VN	5825.0106	1.82	5825.0158	2.71	5825.0227	3.90	5825.0153	2.63
20	VN	5825.0249	4.27	5824.9907	-1.59	5825.0198	3.39	5825.0205	3.53
10	VN	5824.9916	-1.44	5824.9977	-0.39	5825.0230	3.95	5824.9901	-1.70
0	VN	5825.0123	2.11	5824.9927	-1.25	5825.0240	4.11	5825.0037	0.63

Note: All antennas and test modes have been tested, only the worst data record in the report.

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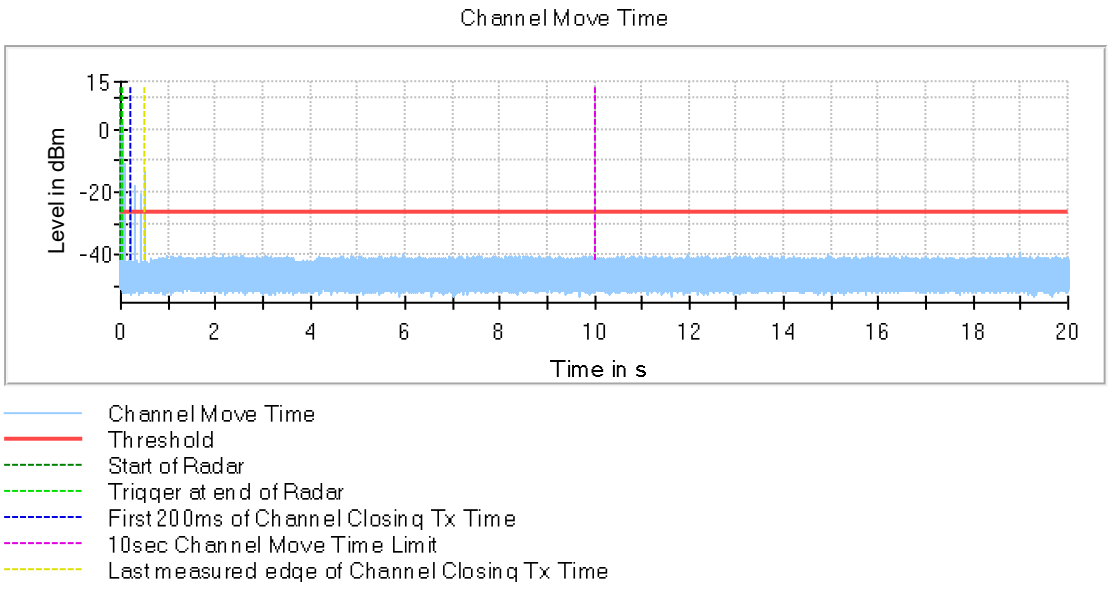
13.8. Appendix F：DYNAMIC FREQUENCY SELECTION

13.8.1. Test Result

802.11ac VHT80 Mode

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Channel Move Time	0.482	＜10 s	pass
	Channel Closing Transmission Time	0.920	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	pass
	Non-Occupancy Period	Nothing appears	If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.	pass

Channel Move Time & Channel Closing Transmission Time



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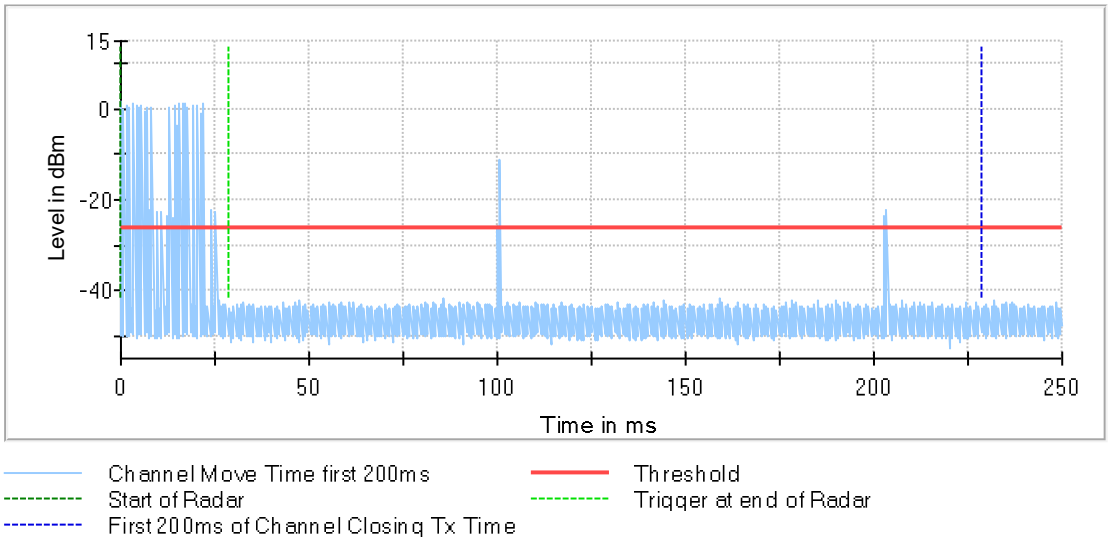
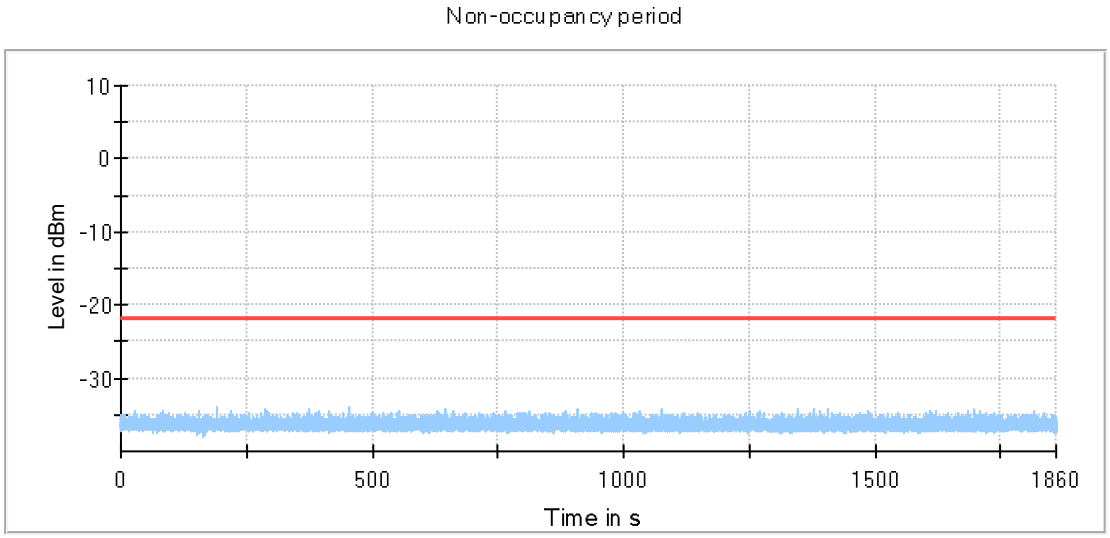


Non-Occupancy Period



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