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#### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 53.6 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

e:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

f:TX mode (Band 2A)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

h:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.13.2 Conclusion

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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#### 8 Appendix

#### 8.1 Appendix 15.407

#### 1.Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant1	21.990		PASS
11A	5180	Ant2	21.690		PASS
11A	5220	Ant1	21.720		PASS
11A	5220	Ant2	21.690		PASS
11A	5240	Ant1	21.810		PASS
11A	5240	Ant2	21.720		PASS
11A	5260	Ant1	21.960		PASS
11A	5260	Ant2	21.840		PASS
11A	5300	Ant1	21.630		PASS
11A	5300	Ant2	21.870		PASS
11A	5320	Ant1	21.690		PASS
11A	5320	Ant2	21.840		PASS
11A	5500	Ant1	26.730		PASS
11A	5500	Ant2	27.360		PASS
11A	5580	Ant1	22.020		PASS
11A	5580	Ant2	27.450		PASS
11A	5600	Ant1	22.020		PASS
11A	5600	Ant2	27.450		PASS
11A	5700	Ant1	21.870		PASS
11A	5700	Ant2	26.070		PASS
11A	5745	Ant1	16.380	>=0.5	PASS
11A	5745	Ant2	16.380	>=0.5	PASS
11A	5785	Ant1	16.380	>=0.5	PASS
11A	5785	Ant2	16.350	>=0.5	PASS
11A	5825	Ant1	16.350	>=0.5	PASS
11A	5825	Ant2	16.350	>=0.5	PASS
11AC20	5180	Ant1	24.090		PASS
11N20	5180	Ant1	22.020		PASS

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11N20	5180	Ant2	22.440	 PASS
11AC20	5180	Ant2	23.100	 PASS
11AC40	5190	Ant1	40.320	 PASS
11N40	5190	Ant1	40.320	 PASS
11N40	5190	Ant2	40.440	 PASS
11AC40	5190	Ant2	40.380	 PASS
11AC80	5210	Ant1	82.320	 PASS
11AC80	5210	Ant2	82.320	 PASS
11N20	5220	Ant1	22.410	 PASS
11AC20	5220	Ant1	21.960	 PASS
11N20	5220	Ant2	22.410	 PASS
11AC20	5220	Ant2	22.620	 PASS
11AC40	5230	Ant1	41.820	 PASS
11N40	5230	Ant1	40.440	 PASS
11AC40	5230	Ant2	40.440	 PASS
11N40	5230	Ant2	40.380	 PASS
11AC20	5240	Ant1	22.350	 PASS
11N20	5240	Ant1	22.140	 PASS
11AC20	5240	Ant2	21.990	 PASS
11N20	5240	Ant2	21.930	 PASS
11N20	5260	Ant1	22.680	 PASS
11AC20	5260	Ant1	22.440	 PASS
11N20	5260	Ant2	21.990	 PASS
11AC20	5260	Ant2	22.830	 PASS
11AC40	5270	Ant1	40.380	 PASS
11N40	5270	Ant1	40.260	 PASS
11AC40	5270	Ant2	40.560	 PASS
11N40	5270	Ant2	40.260	 PASS
11AC80	5290	Ant1	82.200	 PASS
11AC80	5290	Ant2	82.080	 PASS
11AC20	5300	Ant1	22.050	 PASS
11N20	5300	Ant1	22.980	 PASS
11N20	5300	Ant2	22.020	 PASS
11AC20	5300	Ant2	21.840	 PASS

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11N40	5310	Ant1	40.440	 PASS
11AC40	5310	Ant1	40.440	 PASS
11N40	5310	Ant2	40.380	 PASS
11AC40	5310	Ant2	40.320	 PASS
11N20	5320	Ant1	22.410	 PASS
11AC20	5320	Ant1	22.680	 PASS
11N20	5320	Ant2	22.080	 PASS
11AC20	5320	Ant2	21.960	 PASS
11AC20	5500	Ant1	24.690	 PASS
11N20	5500	Ant1	22.230	 PASS
11AC20	5500	Ant2	22.590	 PASS
11N20	5500	Ant2	23.670	 PASS
11AC40	5510	Ant1	40.560	 PASS
11N40	5510	Ant1	40.800	 PASS
11AC40	5510	Ant2	40.620	 PASS
11N40	5510	Ant2	43.380	 PASS
11AC80	5530	Ant1	82.440	 PASS
11AC80	5530	Ant2	82.320	 PASS
11AC40	5550	Ant1	40.440	 PASS
11N40	5550	Ant1	42.480	 PASS
11AC40	5550	Ant2	51.000	 PASS
11N40	5550	Ant2	51.180	 PASS
11N20	5580	Ant1	22.260	 PASS
11AC20	5580	Ant1	23.040	 PASS
11AC20	5580	Ant2	27.540	 PASS
11N20	5580	Ant2	29.670	 PASS
11N40	5590	Ant1	40.380	 PASS
11AC40	5590	Ant1	41.100	 PASS
11AC40	5590	Ant2	47.880	 PASS
11N40	5590	Ant2	48.960	 PASS
11AC20	5600	Ant1	23.370	 PASS
11N20	5600	Ant1	23.370	 PASS
11N20	5600	Ant2	27.450	 PASS
11AC20	5600	Ant2	24.990	 PASS

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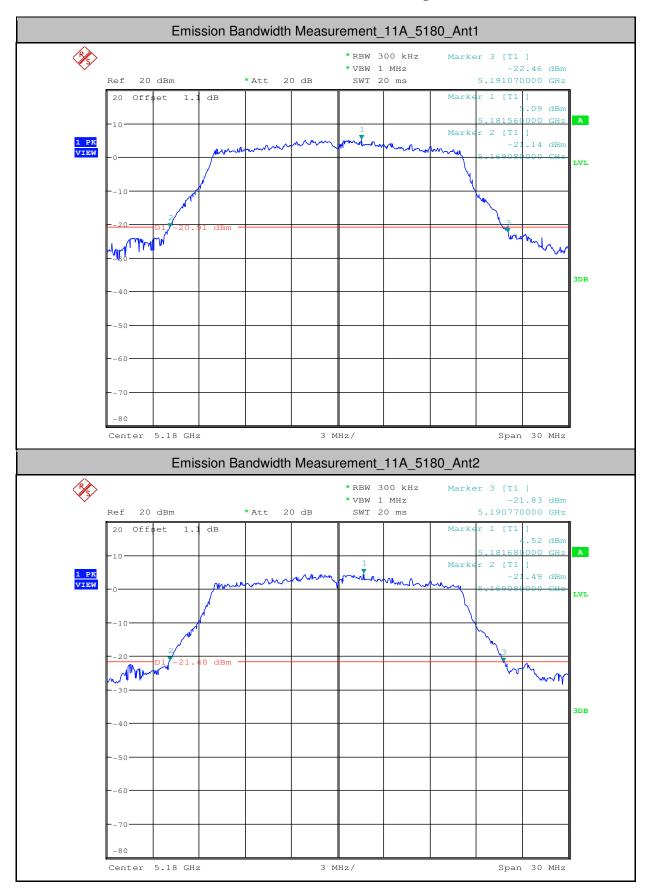
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11N40	5670	Ant1	40.920		PASS
11AC40	5670	Ant1	45.540		PASS
11N40	5670	Ant2	40.560		PASS
11AC40	5670	Ant2	40.500		PASS
11N20	5700	Ant1	22.620		PASS
11AC20	5700	Ant1	25.560		PASS
11AC20	5700	Ant2	22.590		PASS
11N20	5700	Ant2	22.320		PASS
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11AC20	5745	Ant2	17.610	>=0.5	PASS
11N20	5745	Ant2	17.610	>=0.5	PASS
11AC40	5755	Ant1	36.180	>=0.5	PASS
11N40	5755	Ant1	36.060	>=0.5	PASS
11N40	5755	Ant2	35.820	>=0.5	PASS
11AC40	5755	Ant2	35.760	>=0.5	PASS
11AC80	5775	Ant1	75.480	>=0.5	PASS
11AC80	5775	Ant2	75.480	>=0.5	PASS
11N20	5785	Ant1	17.610	>=0.5	PASS
11AC20	5785	Ant1	17.610	>=0.5	PASS
11AC20	5785	Ant2	17.610	>=0.5	PASS
11N20	5785	Ant2	17.610	>=0.5	PASS
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11N40	5795	Ant1	35.880	>=0.5	PASS
11AC40	5795	Ant2	36.060	>=0.5	PASS
11N40	5795	Ant2	35.820	>=0.5	PASS
11N20	5825	Ant1	17.340	>=0.5	PASS
11AC20	5825	Ant1	17.370	>=0.5	PASS
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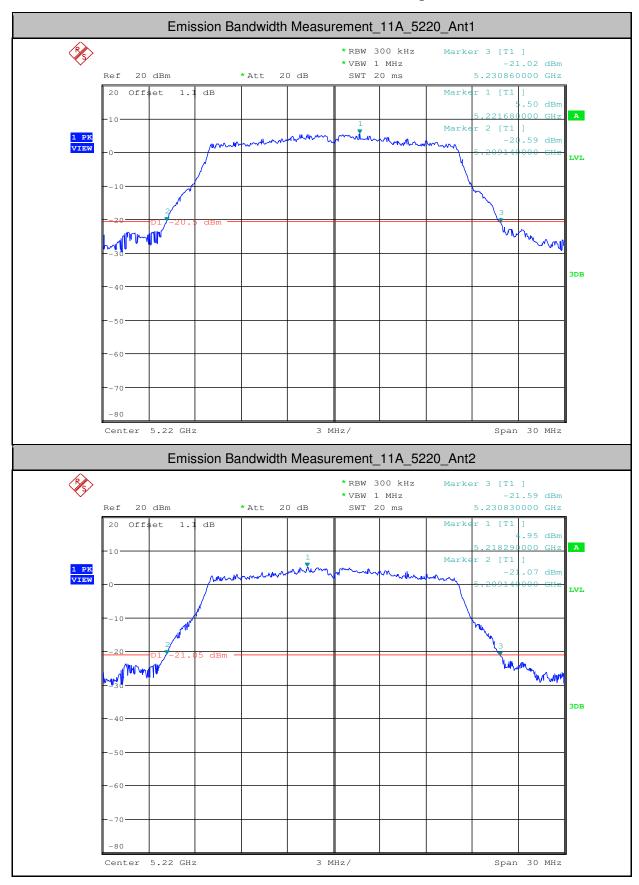
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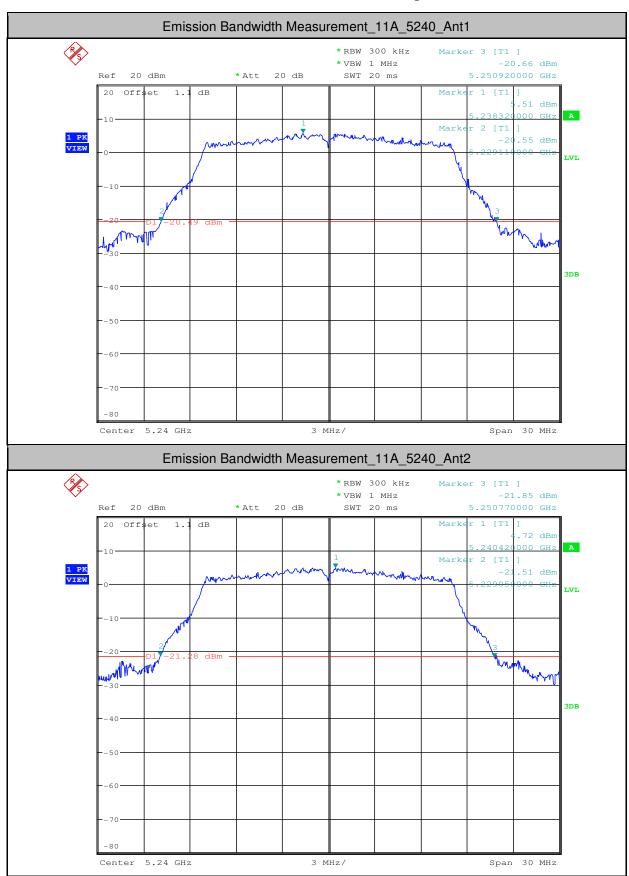
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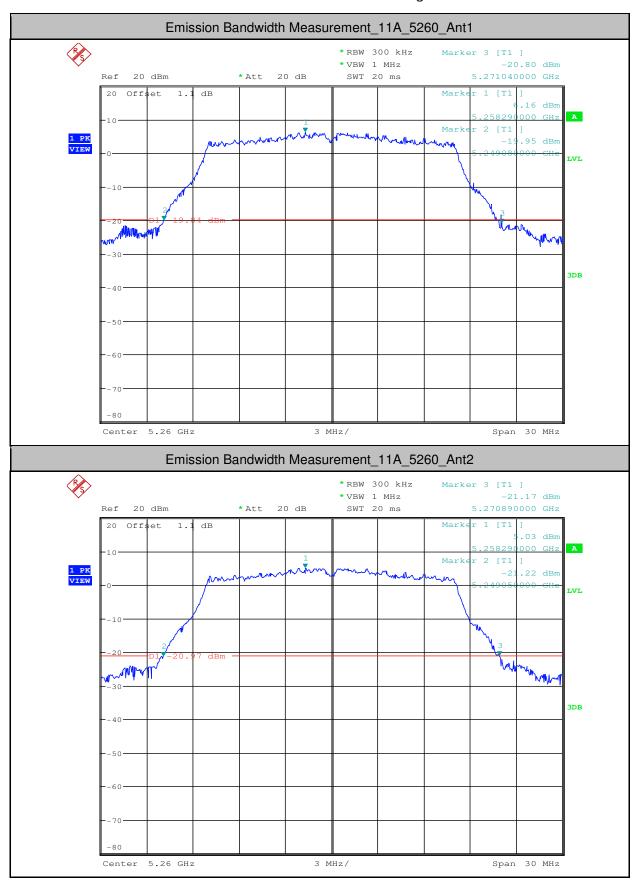
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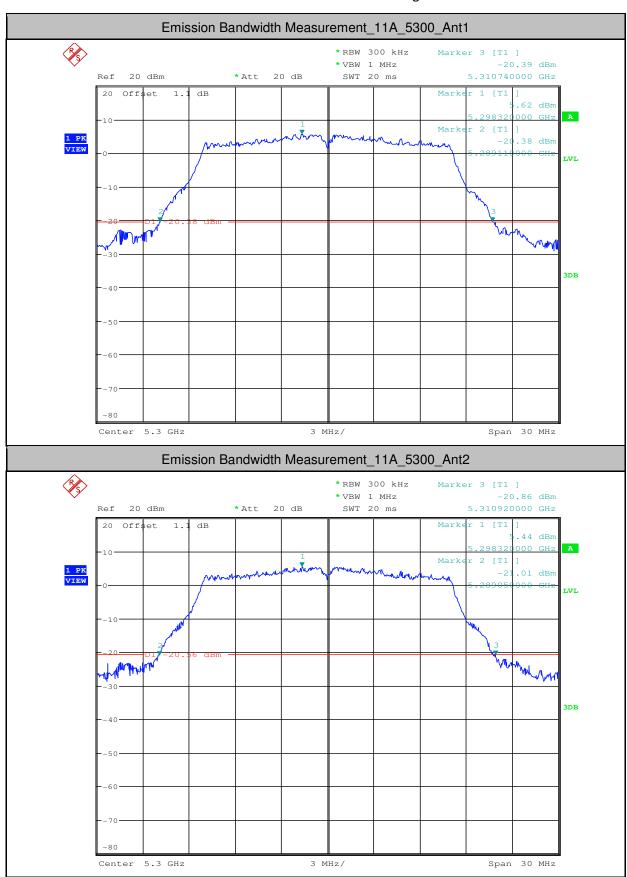
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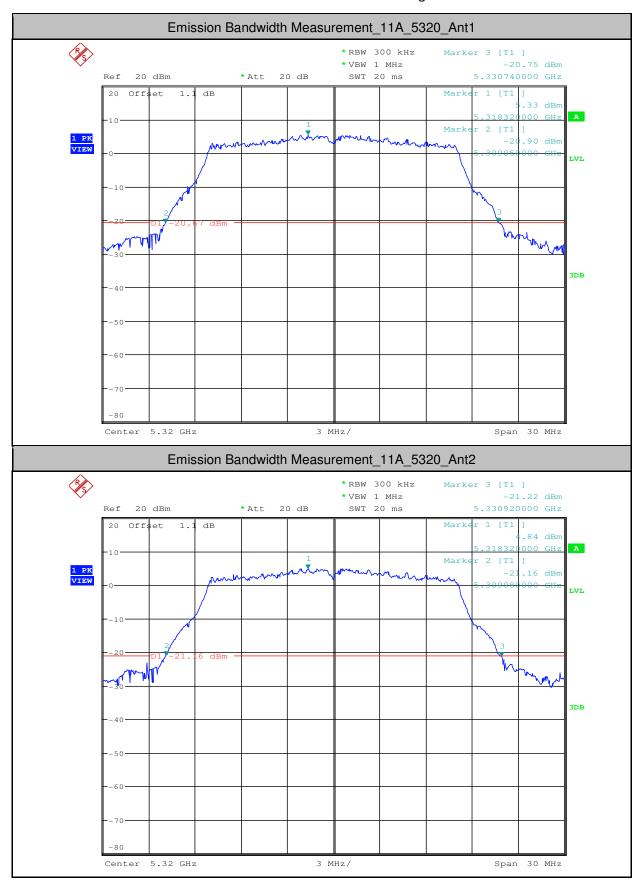
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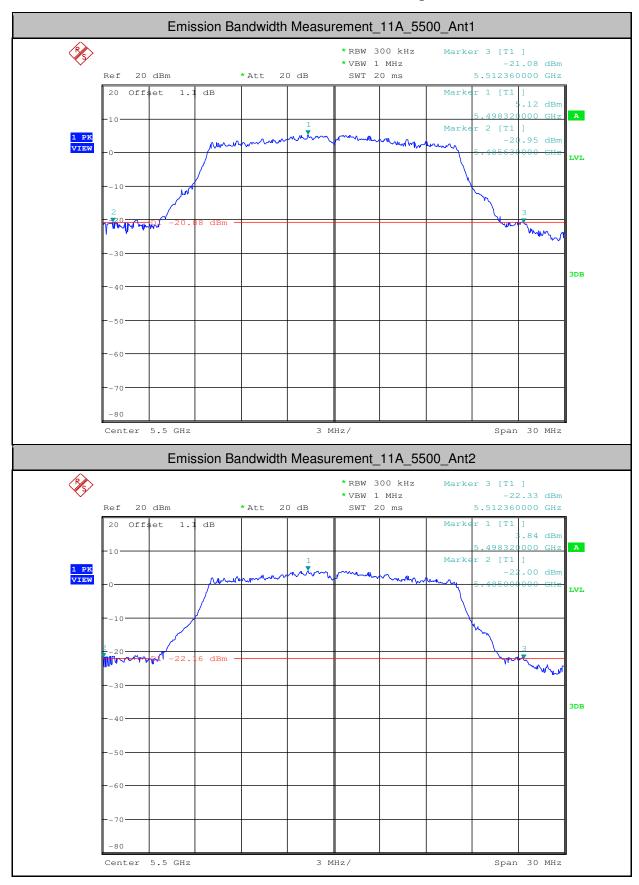
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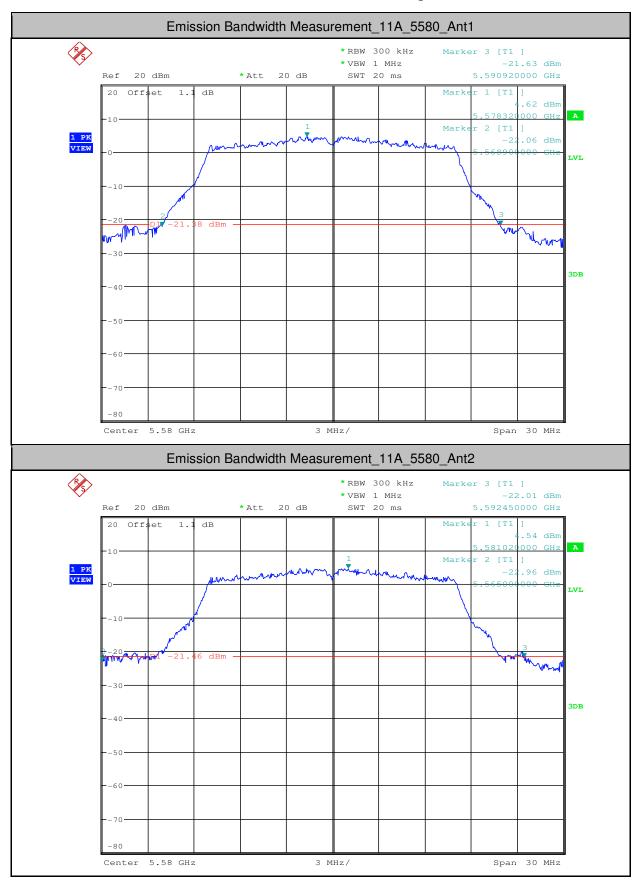
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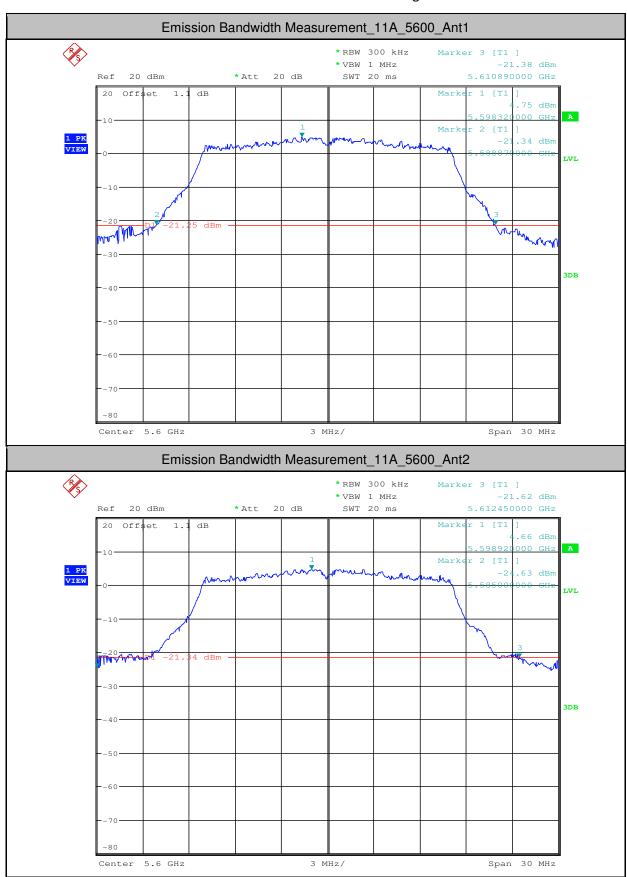
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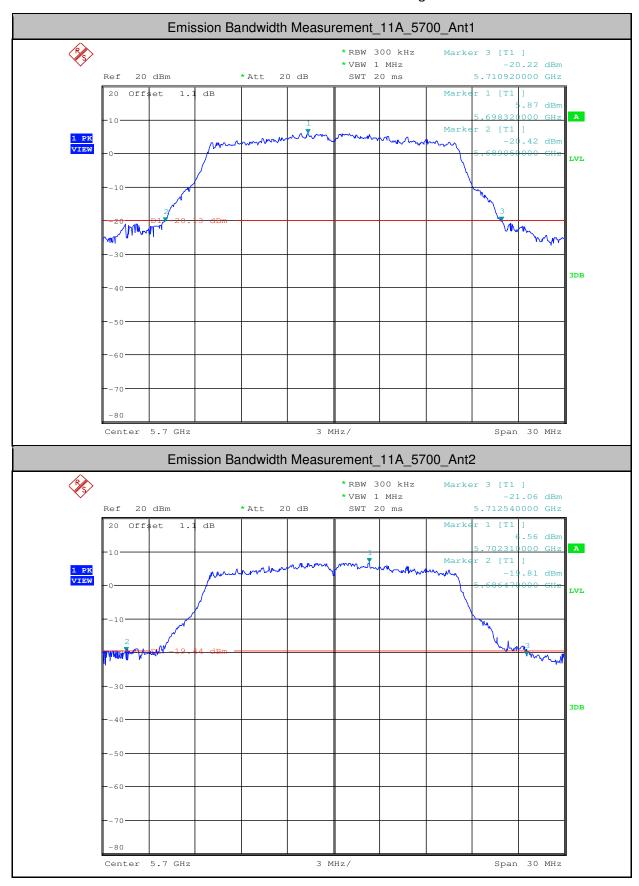
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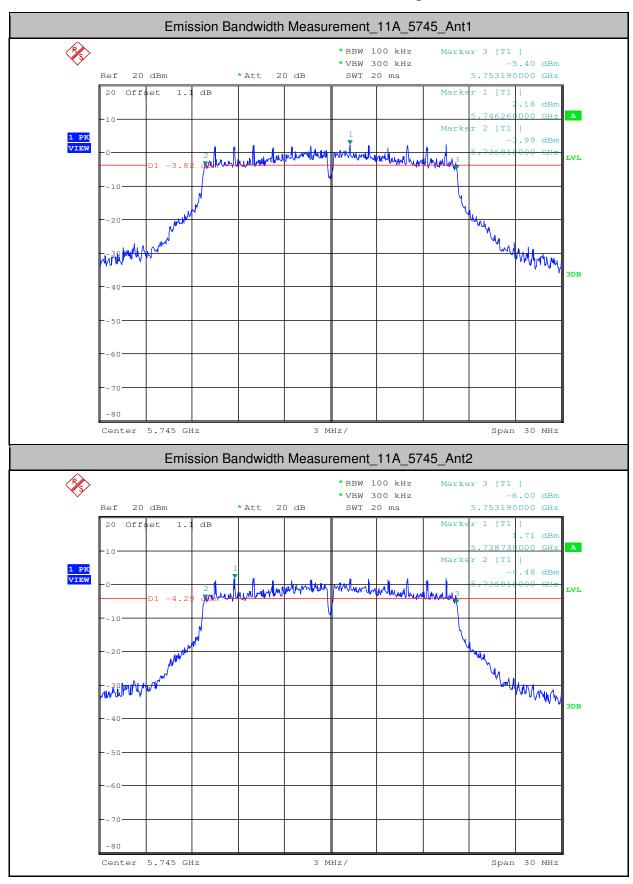
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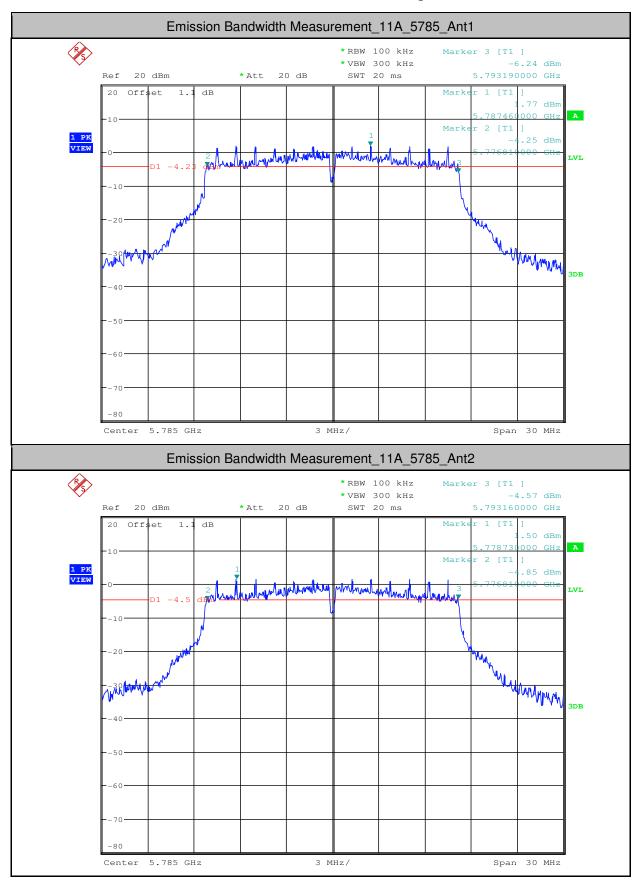
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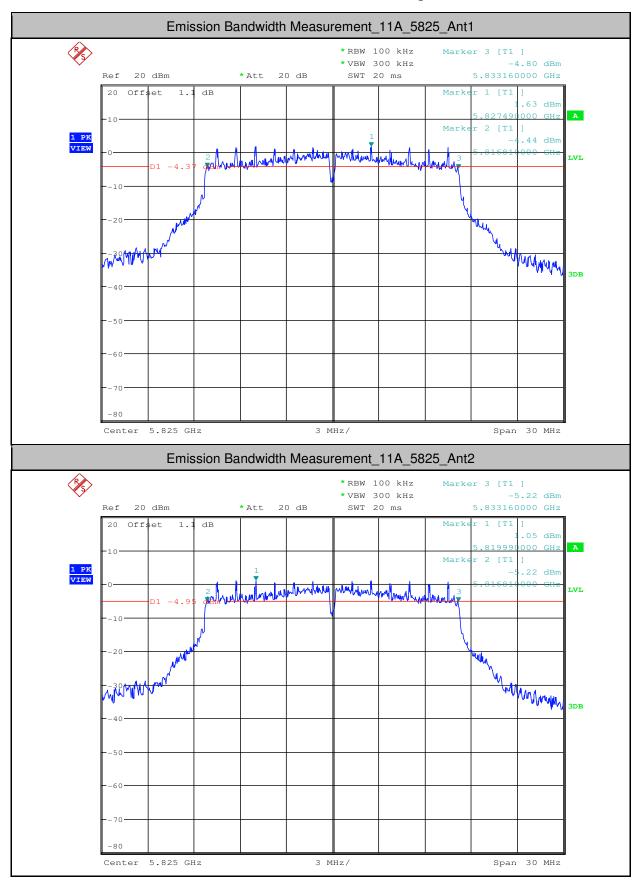
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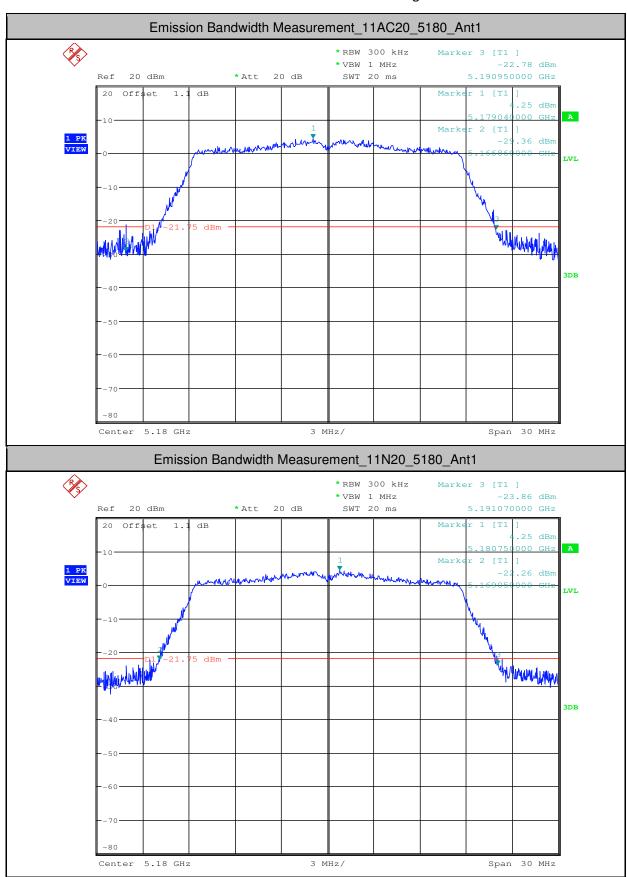
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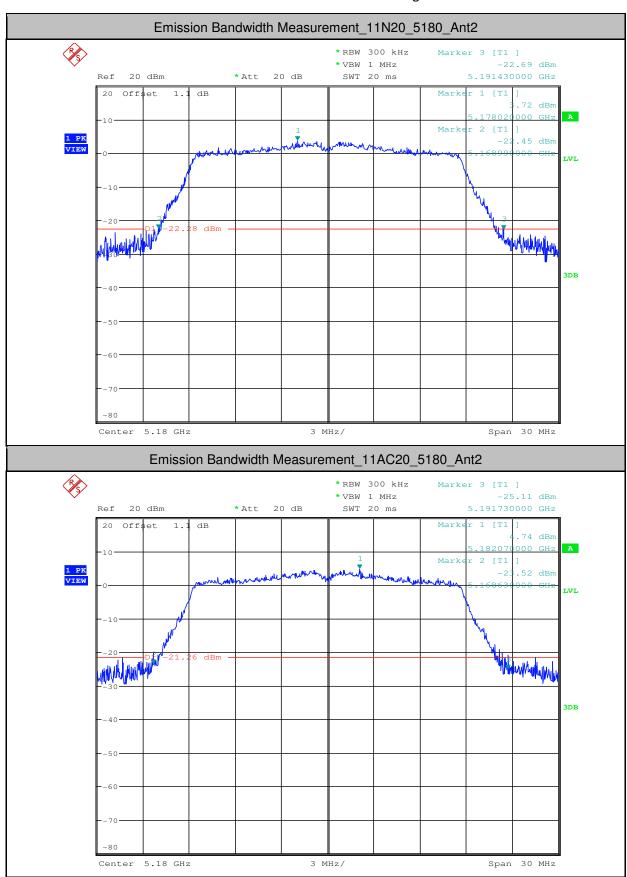
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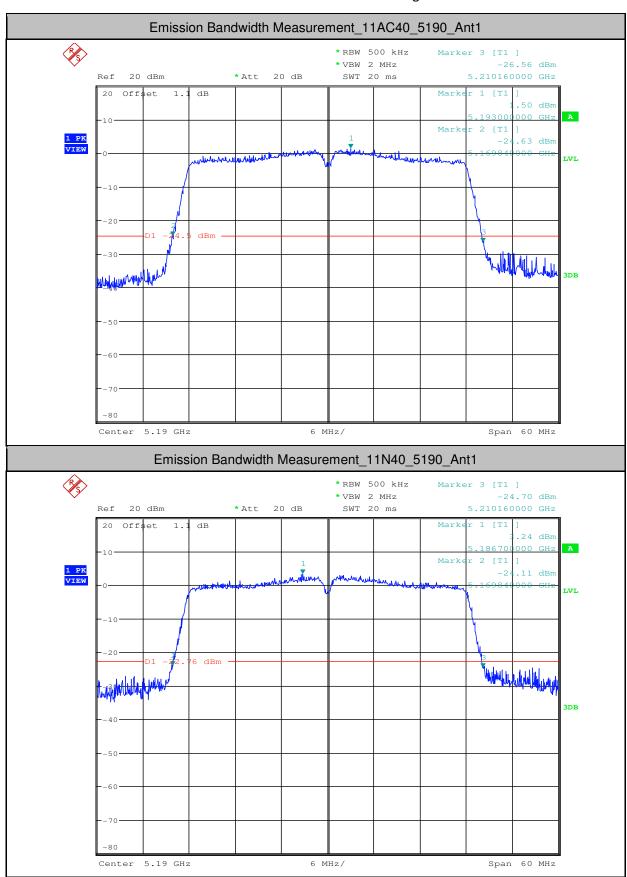
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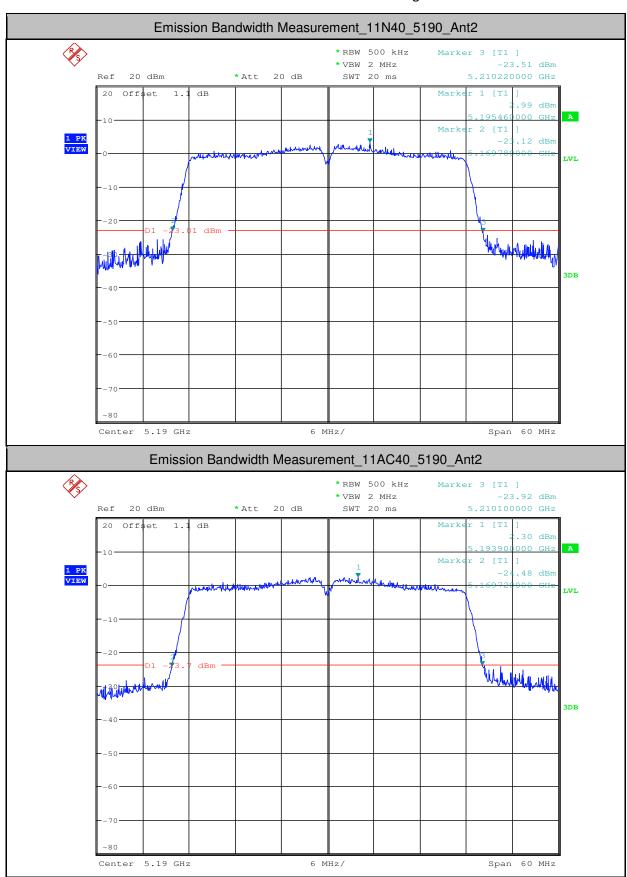
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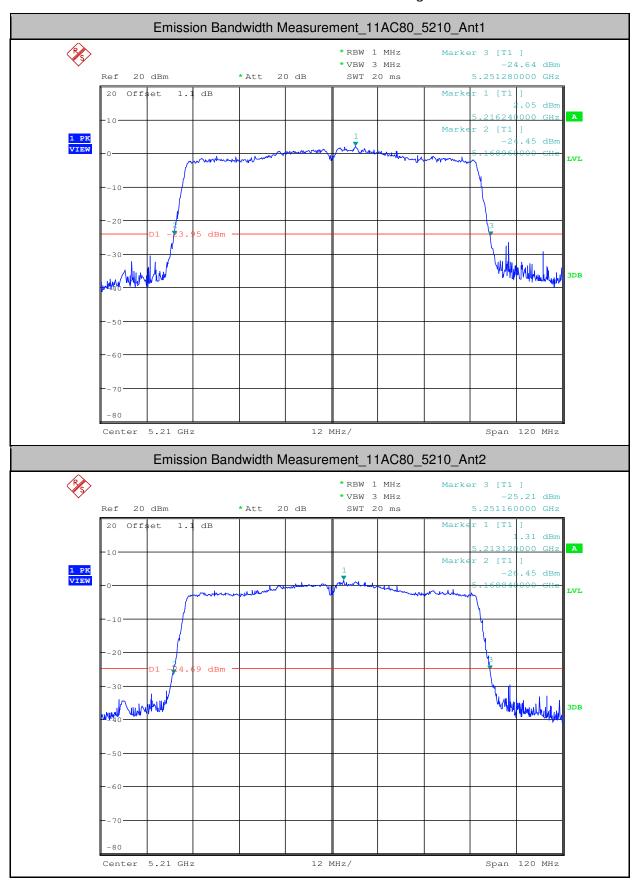
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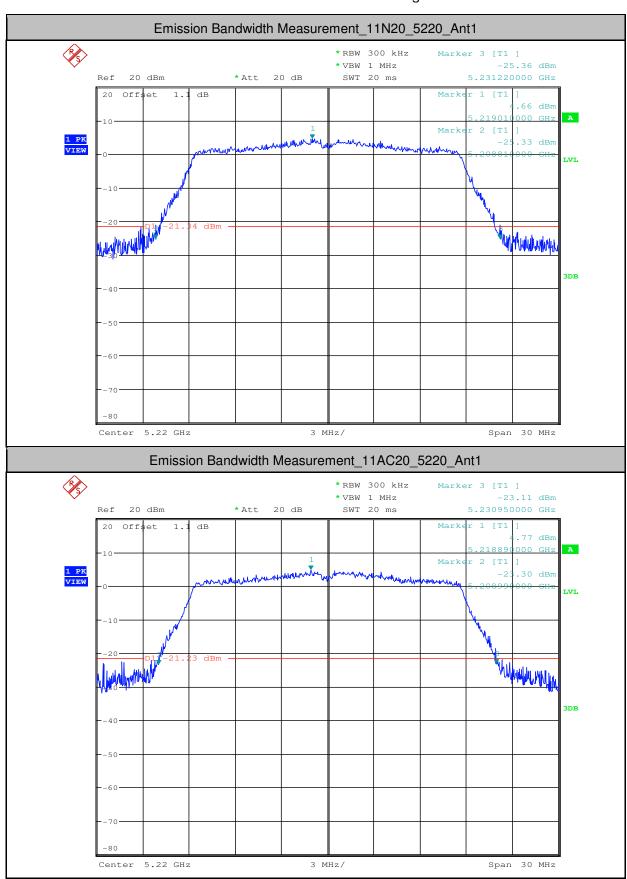
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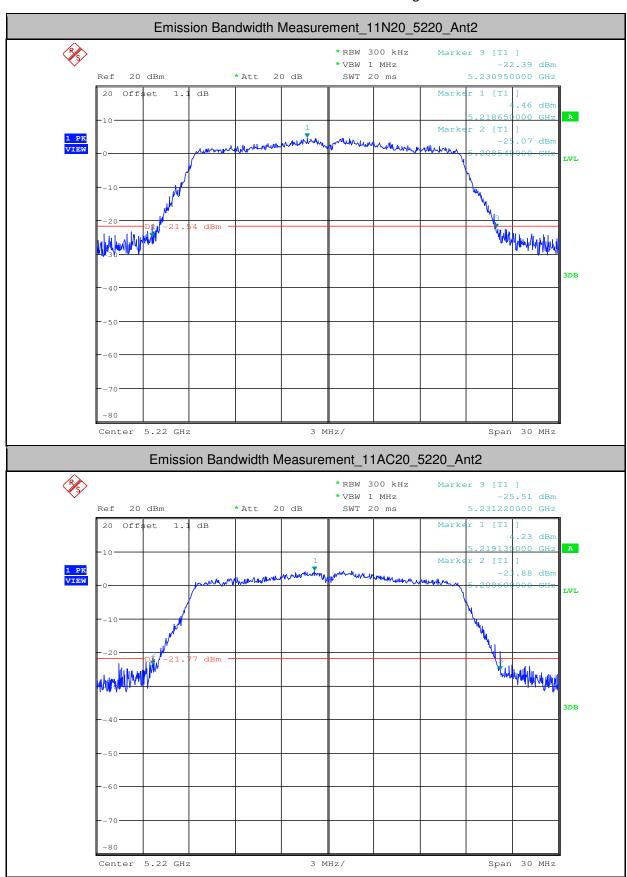
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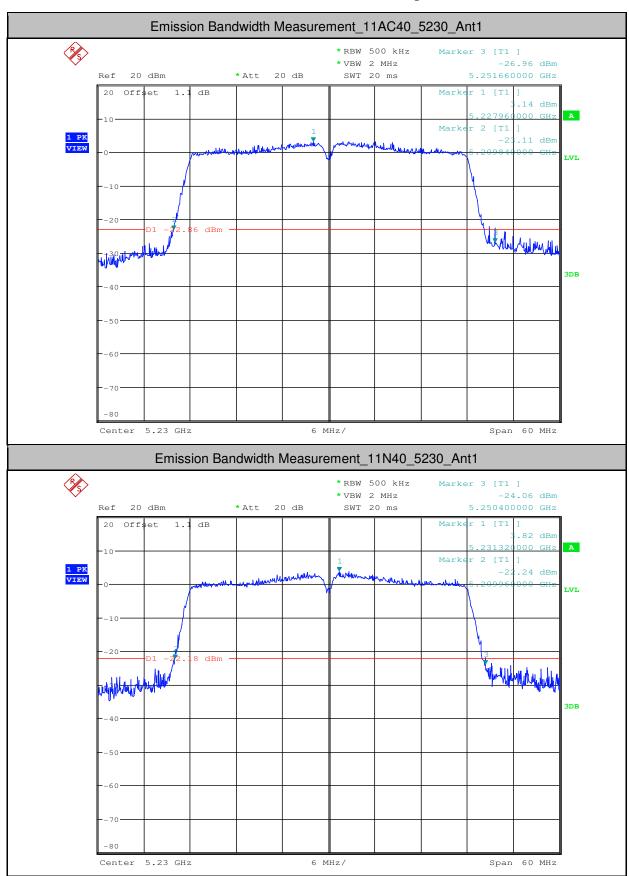
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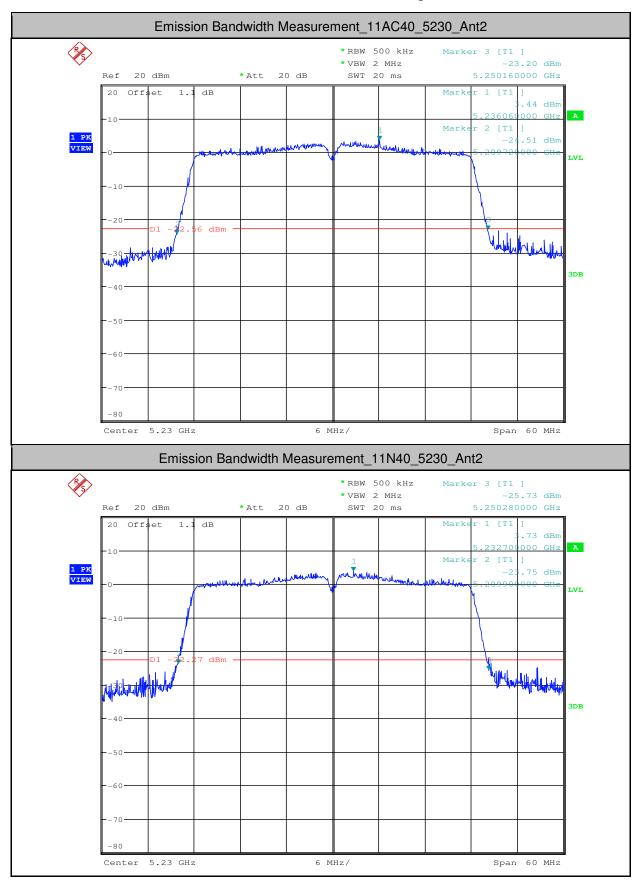
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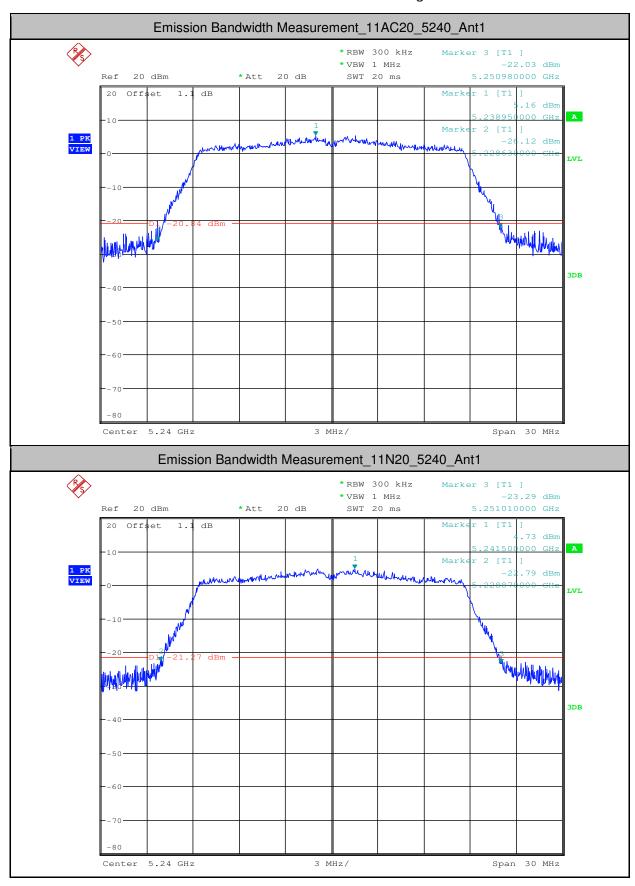
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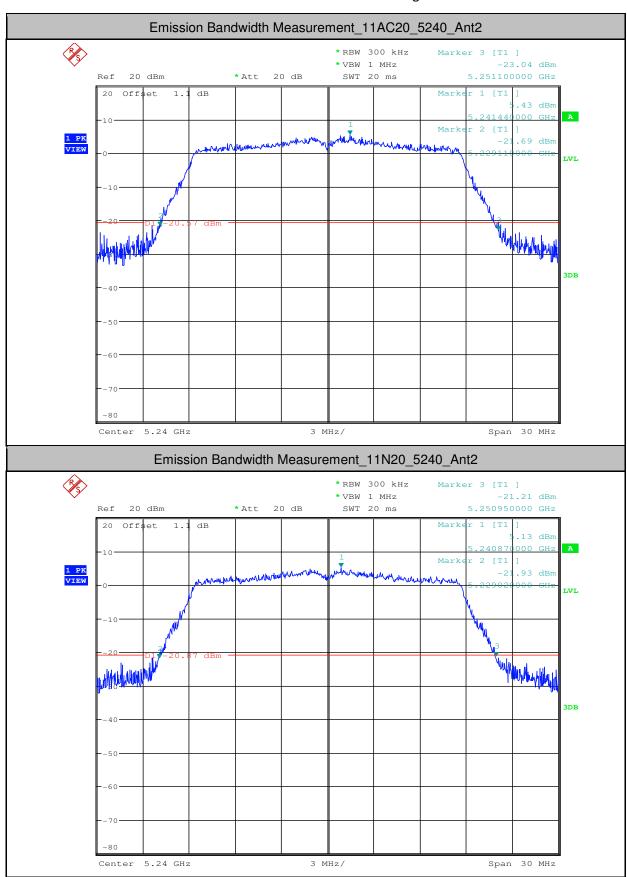
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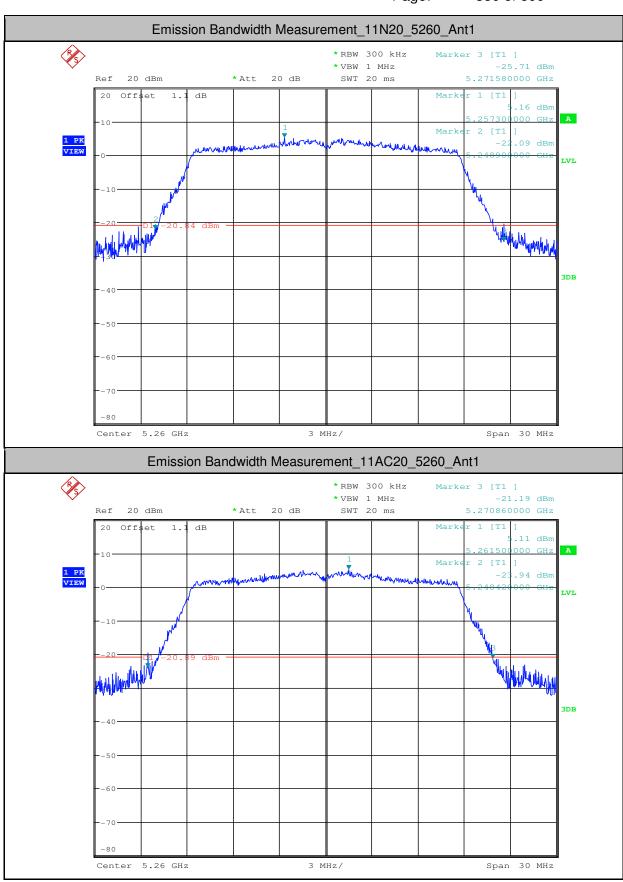
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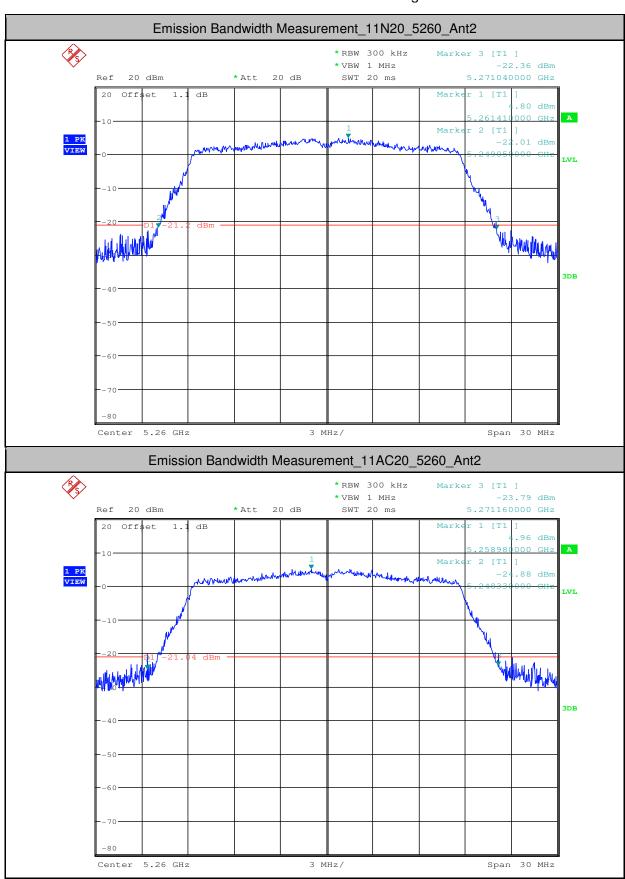
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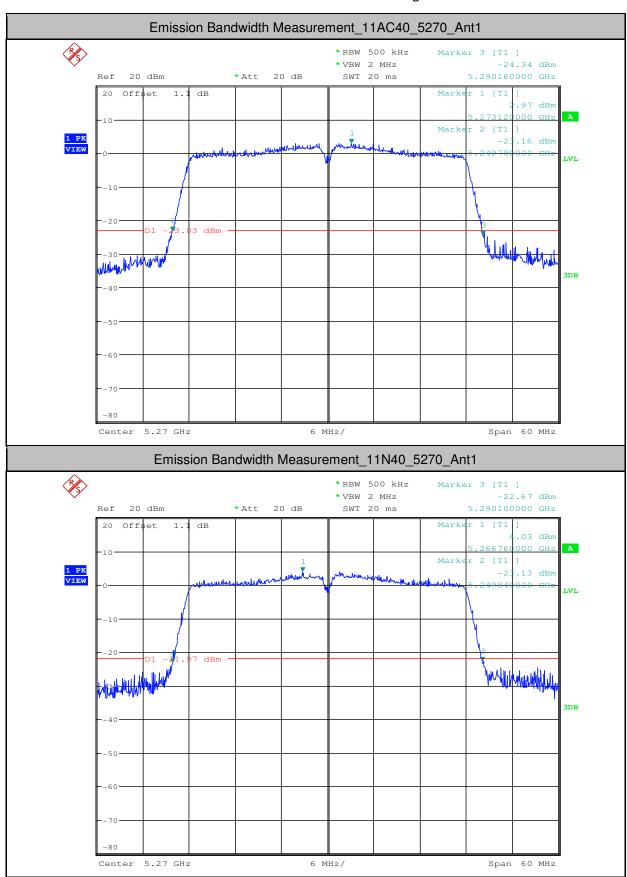
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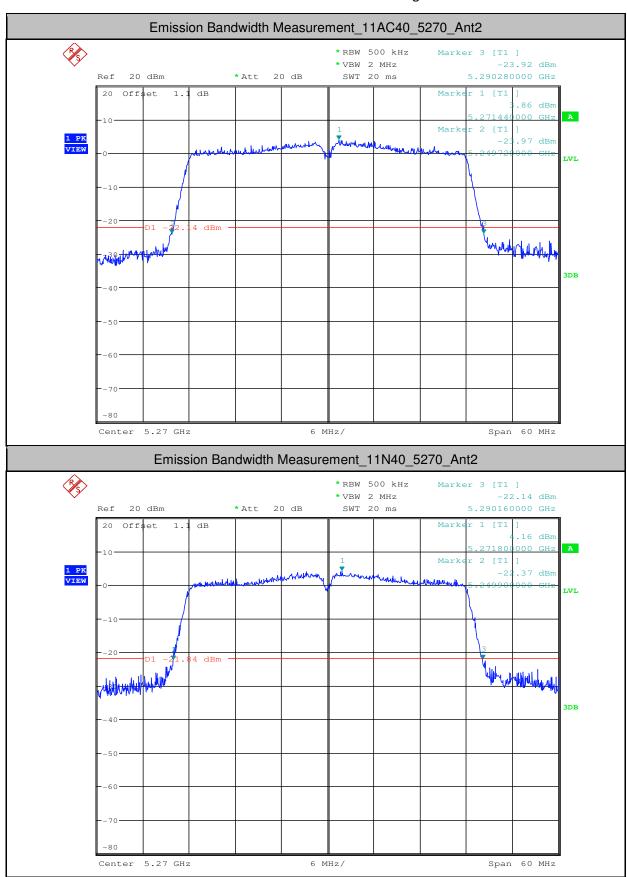
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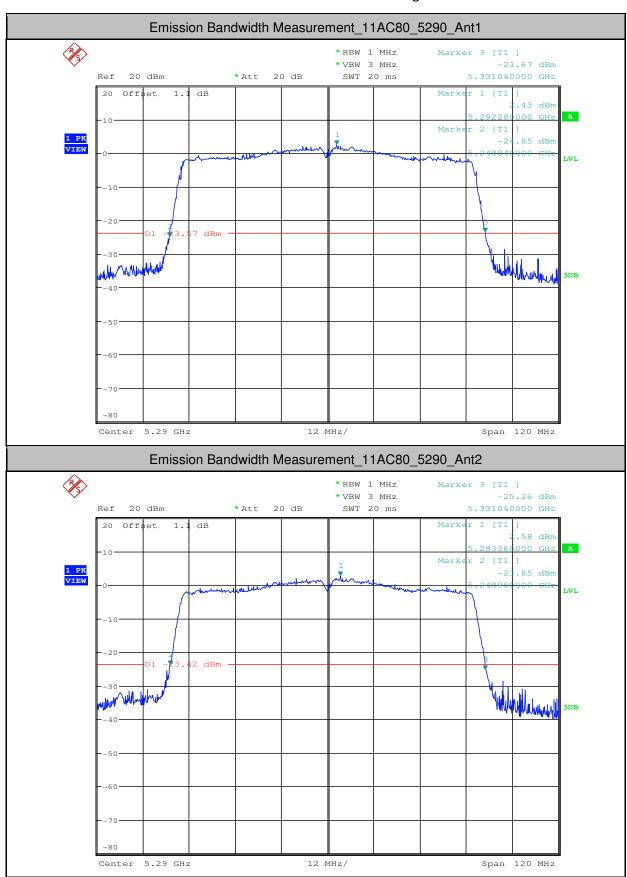
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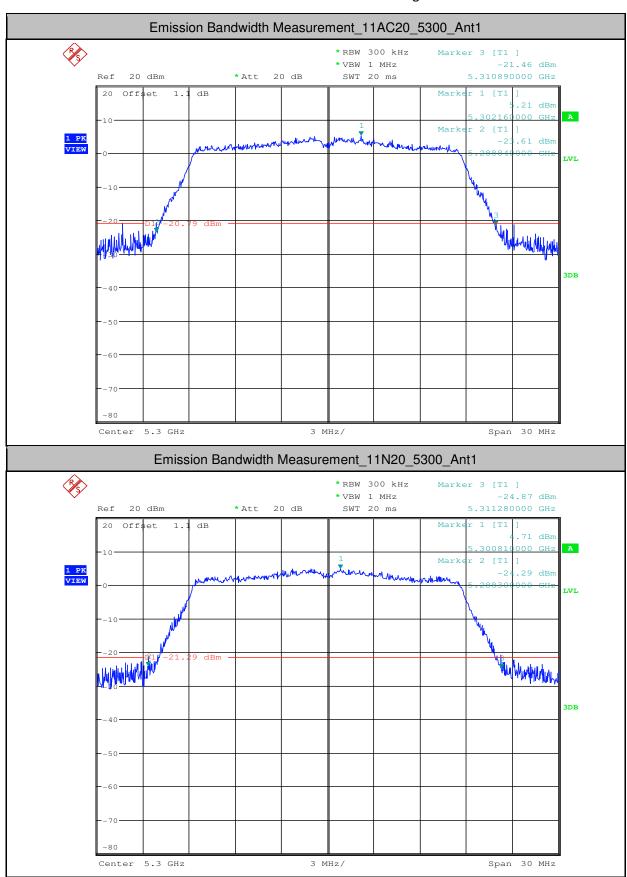
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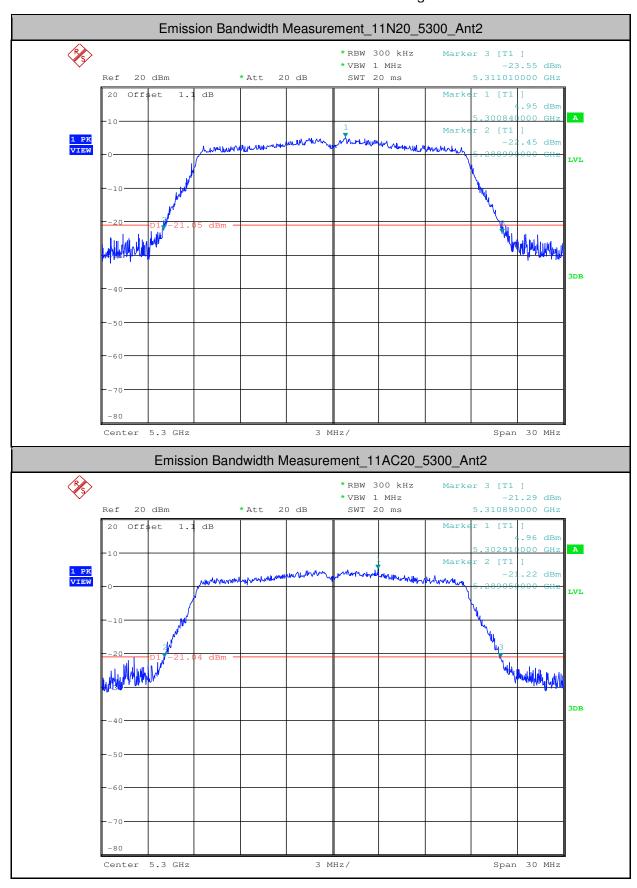
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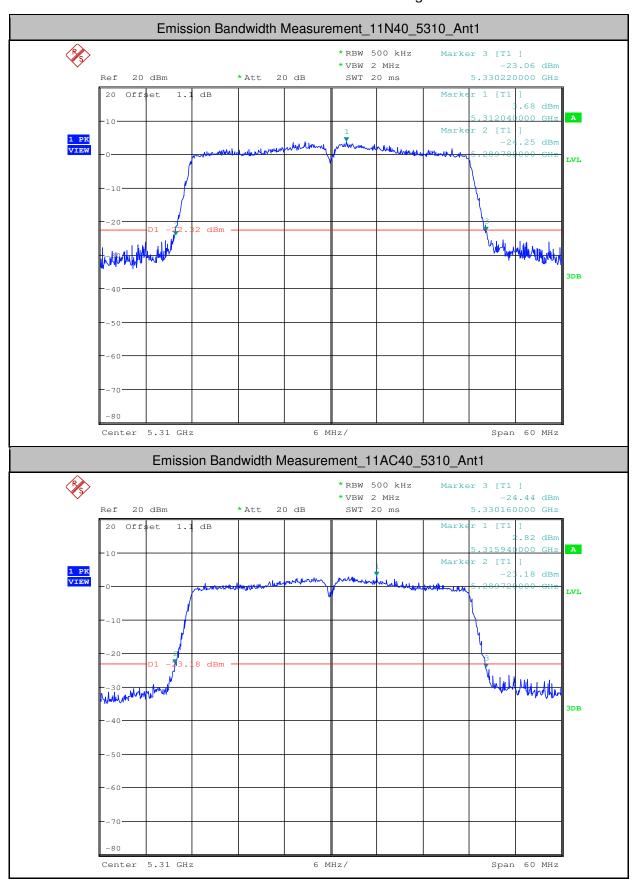
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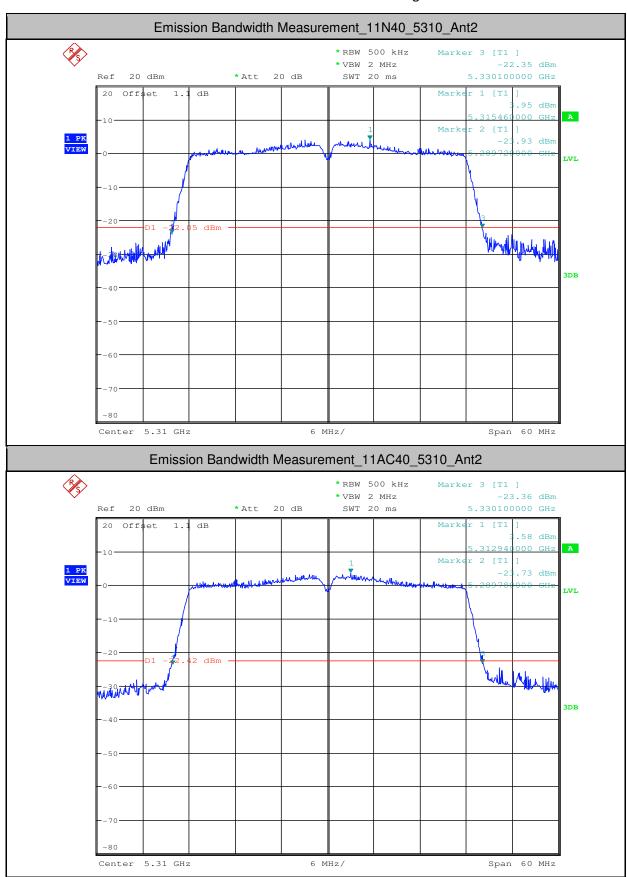
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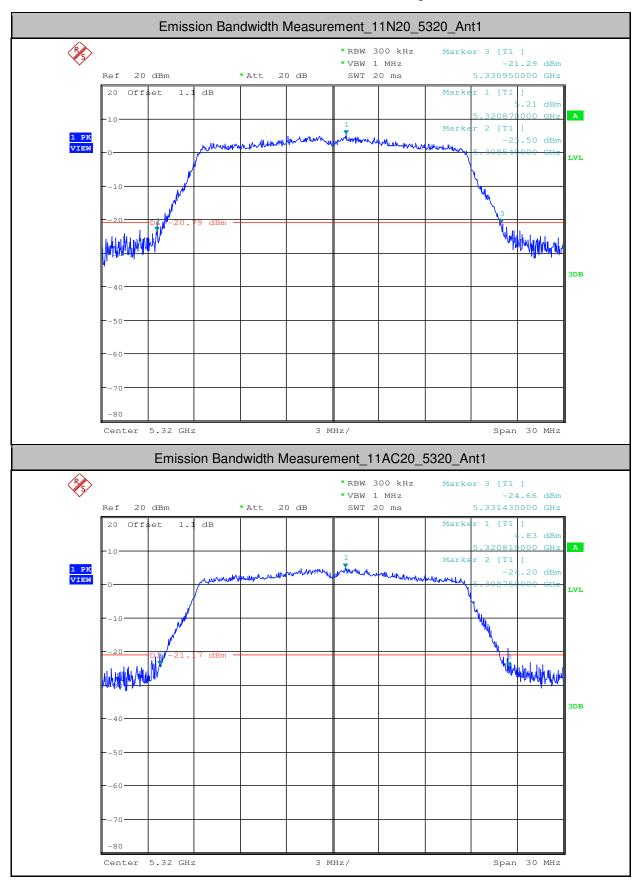
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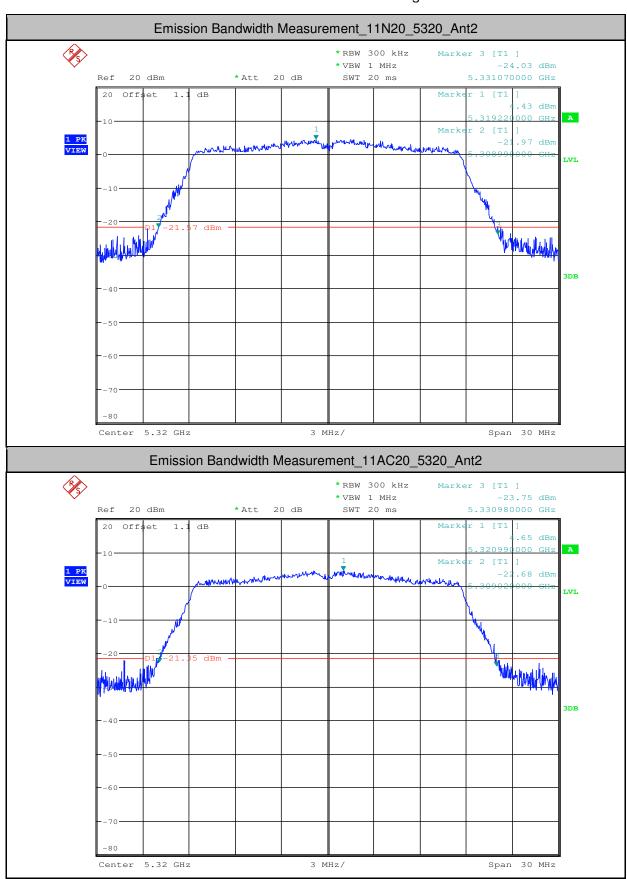
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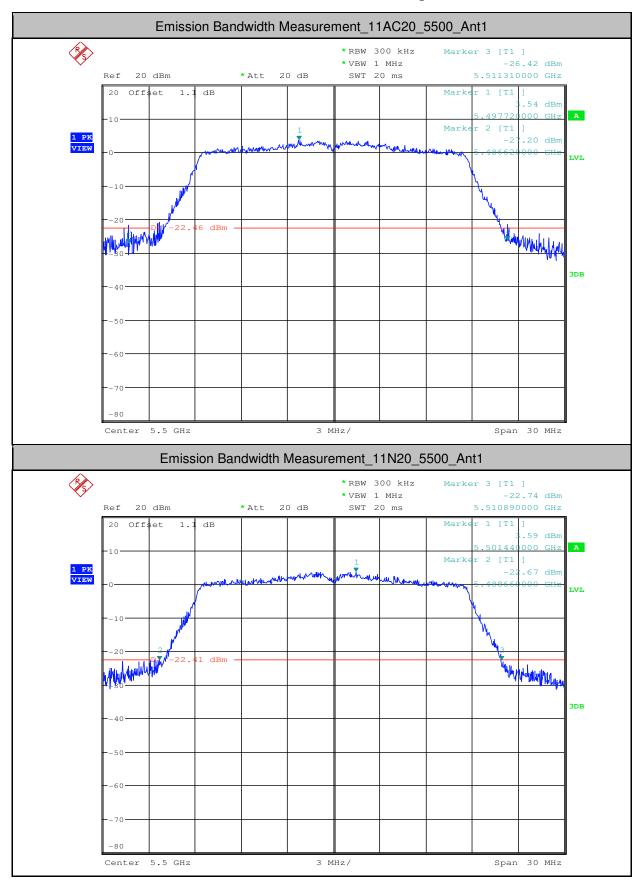
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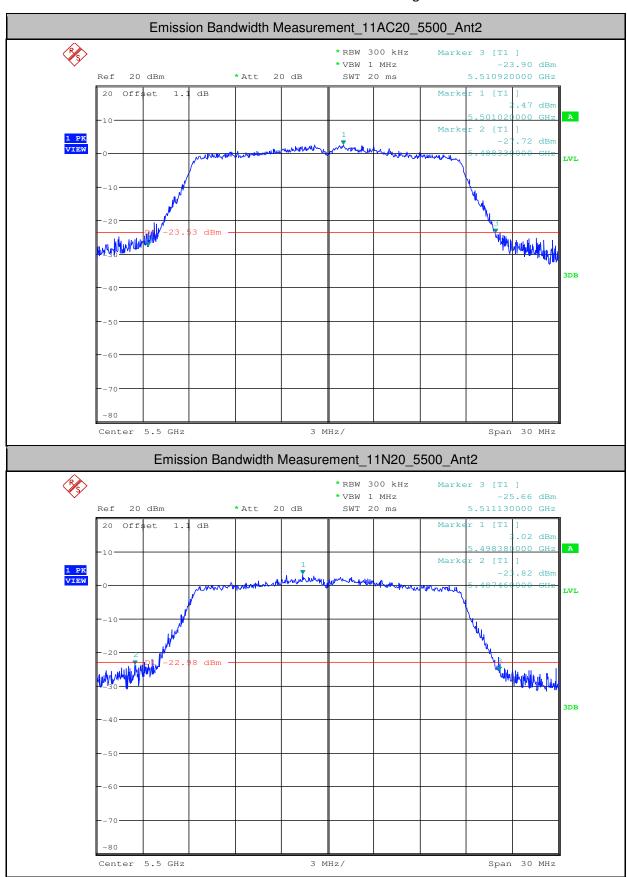
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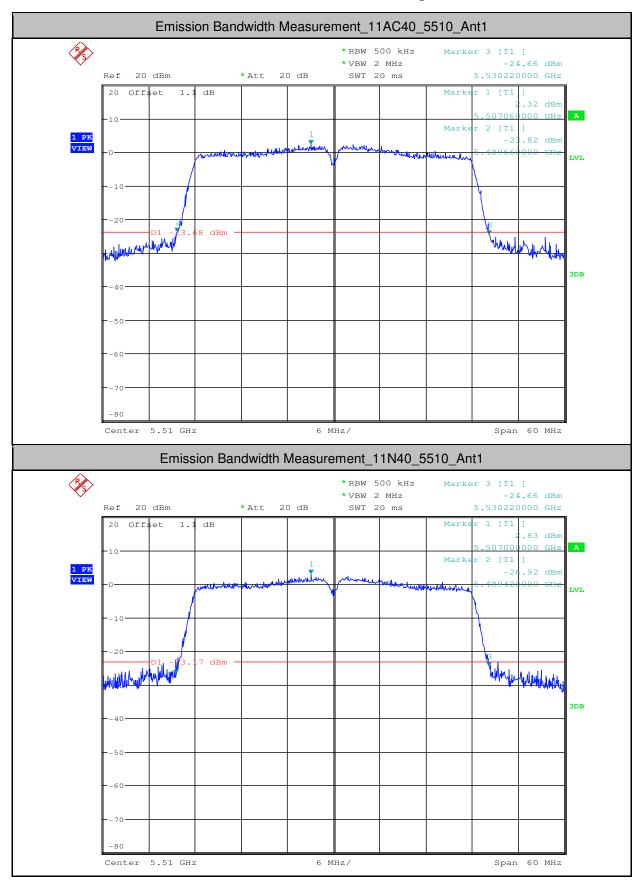
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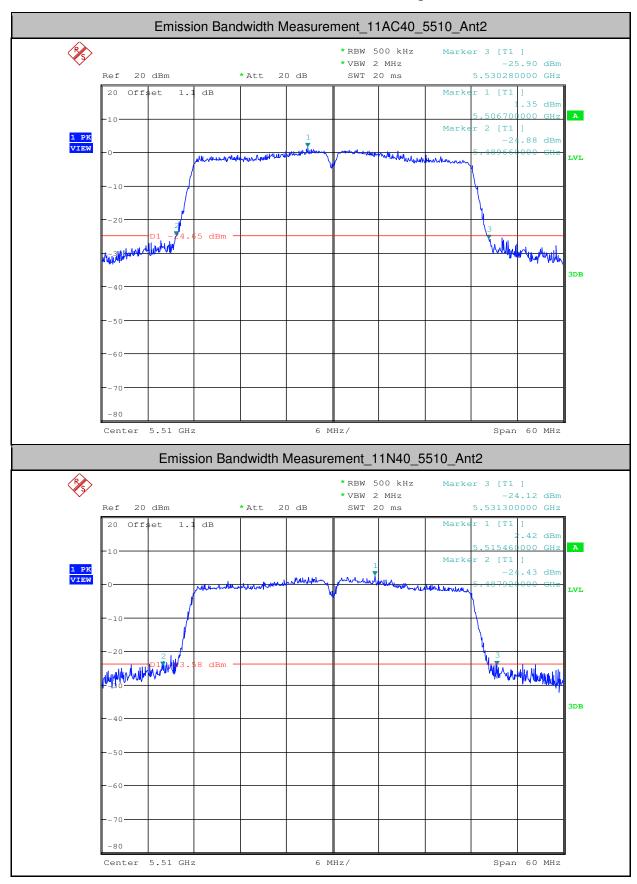
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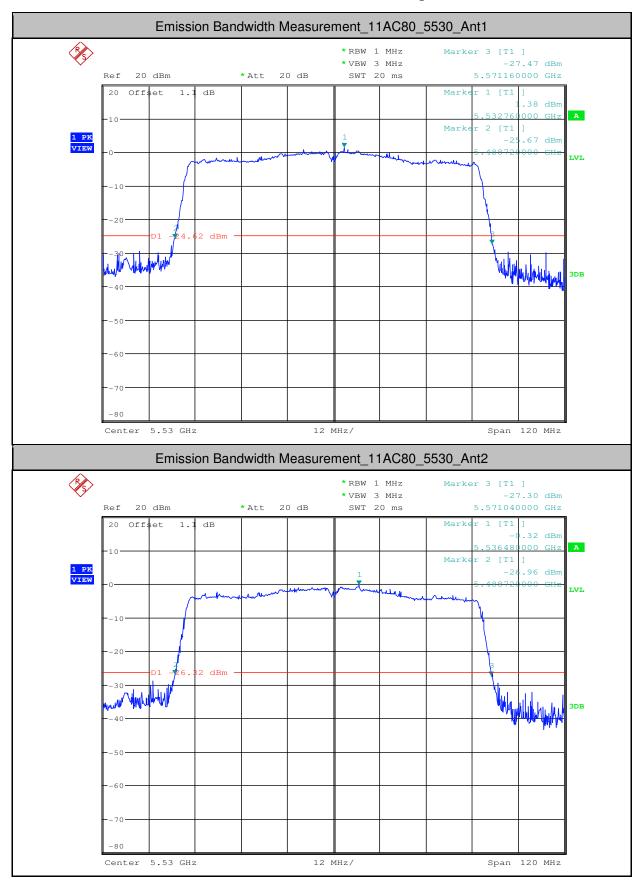
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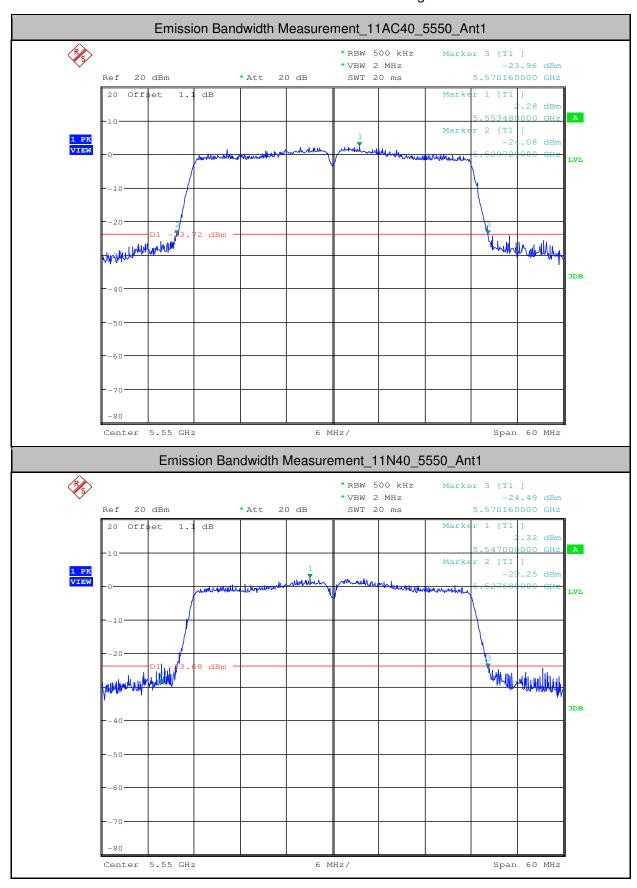
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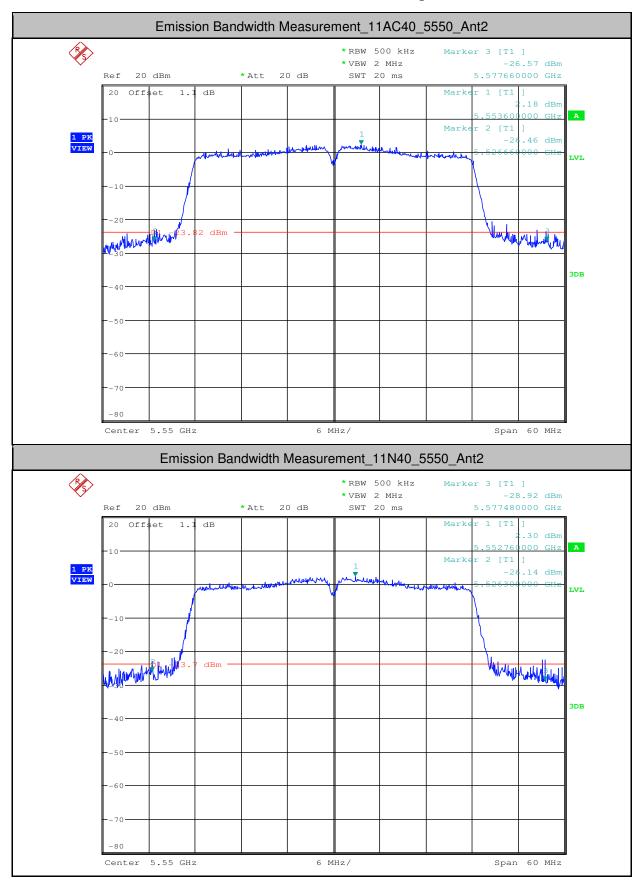
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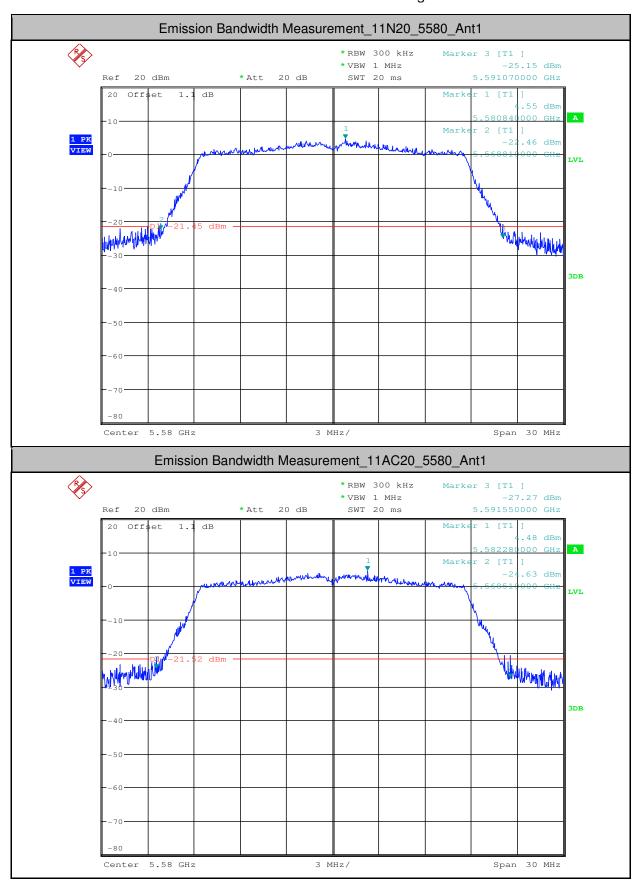
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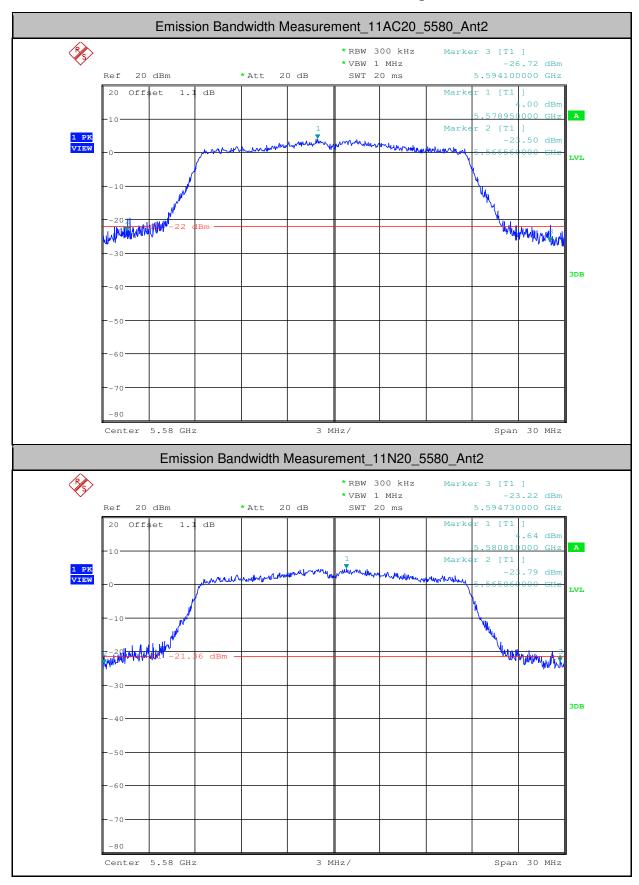
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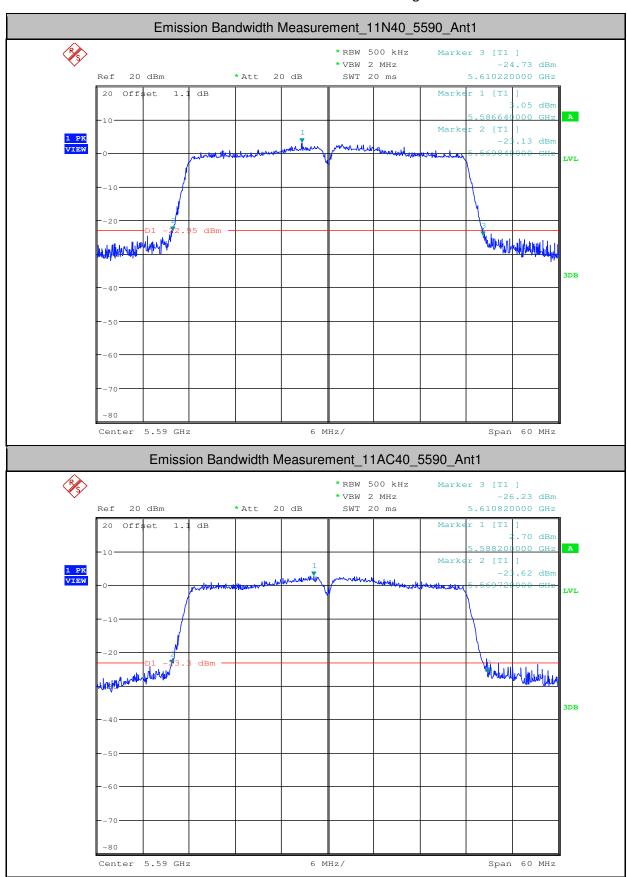
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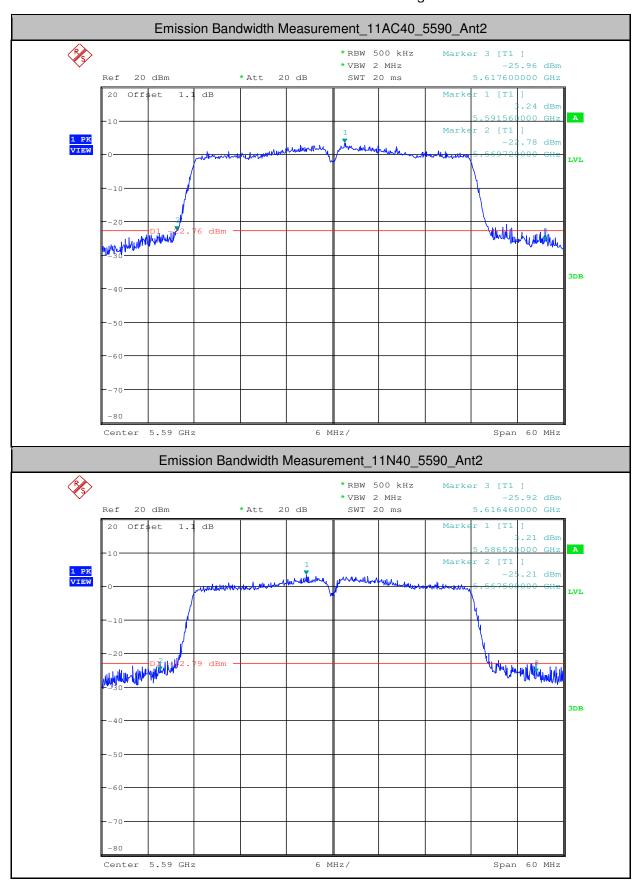
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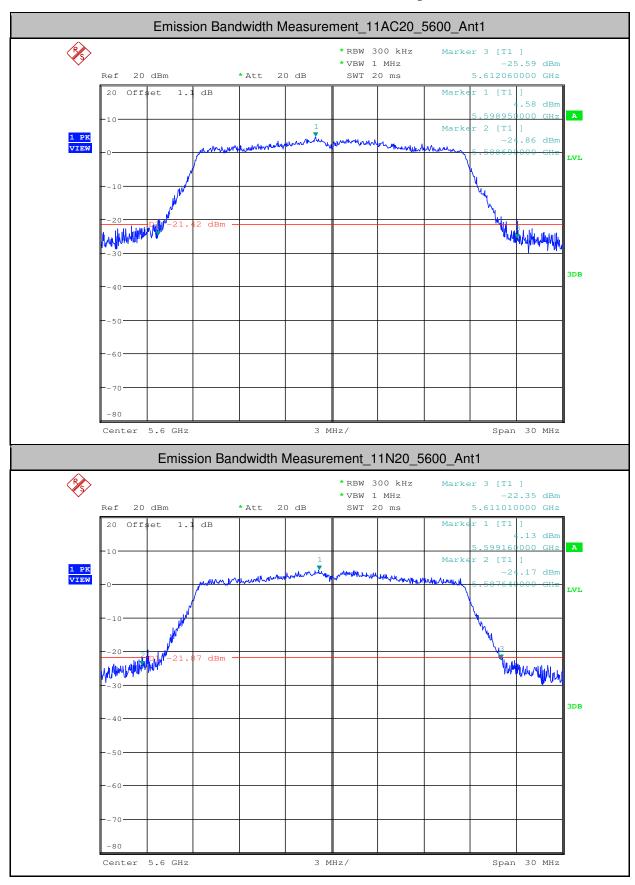
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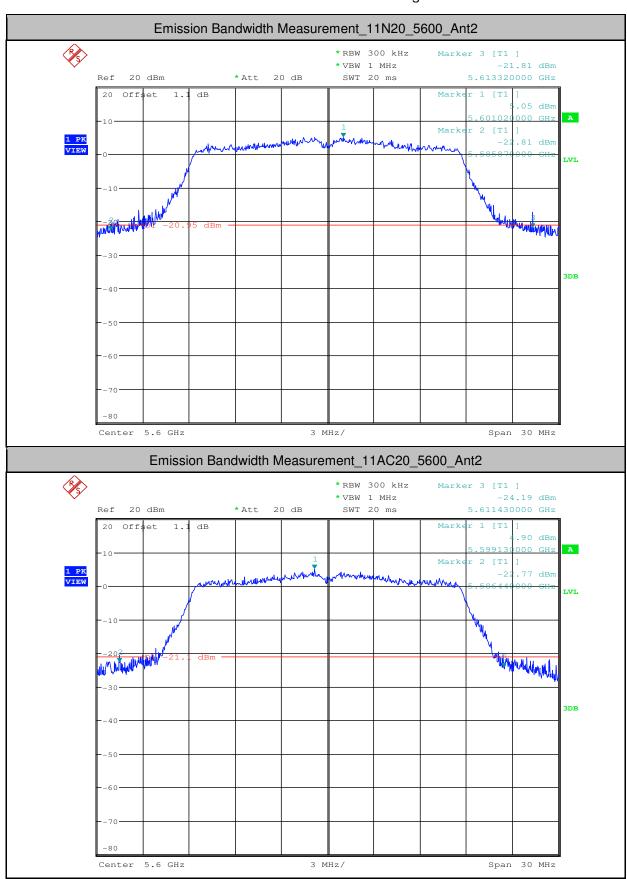
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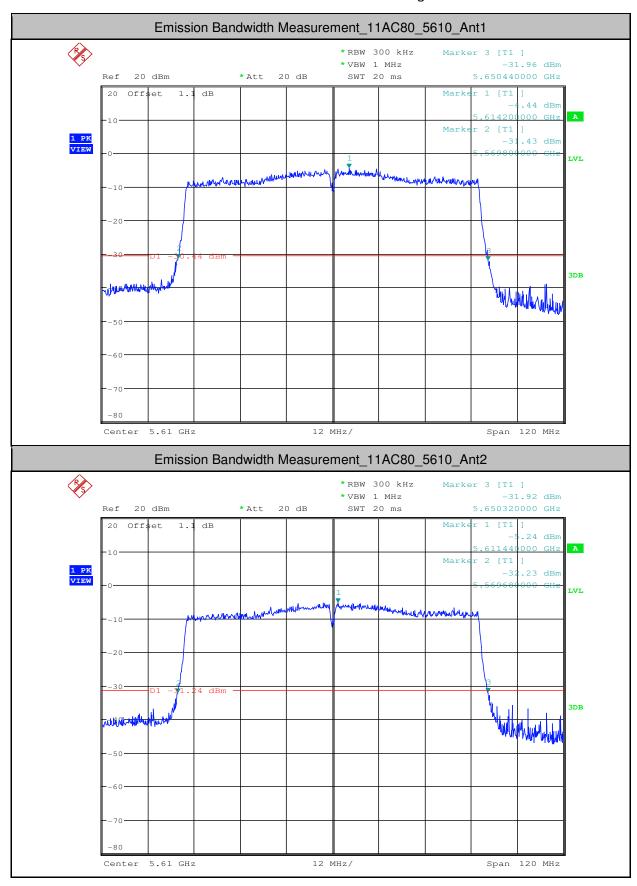
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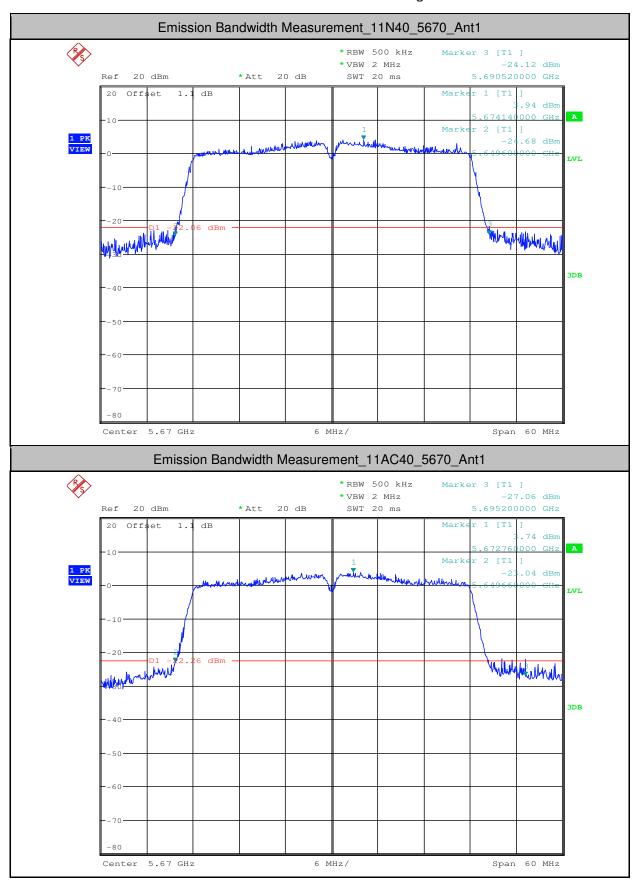
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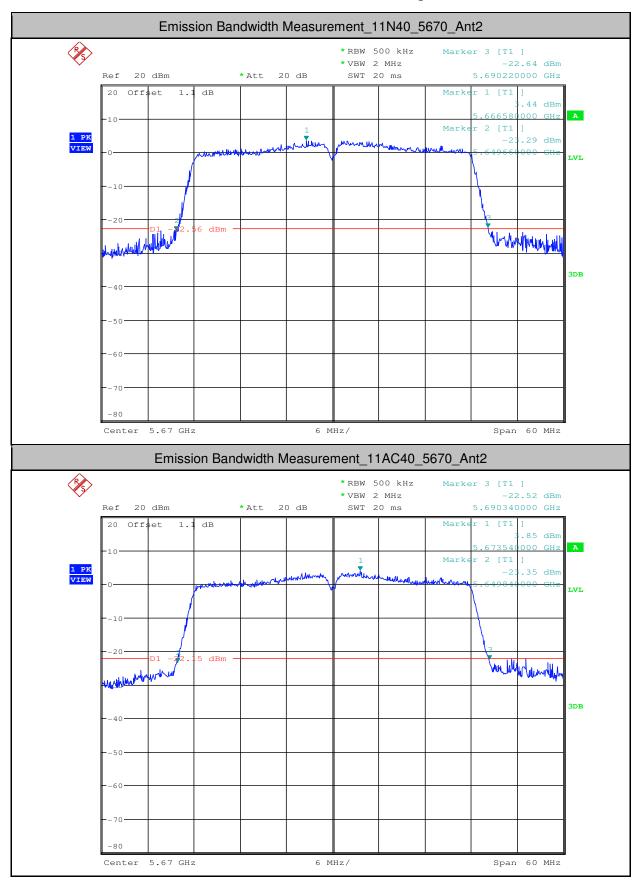
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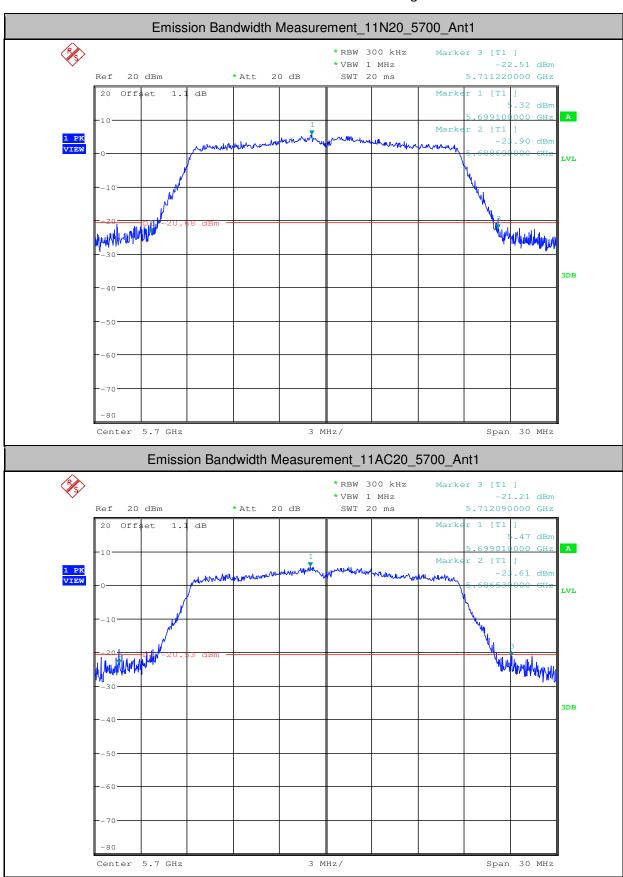
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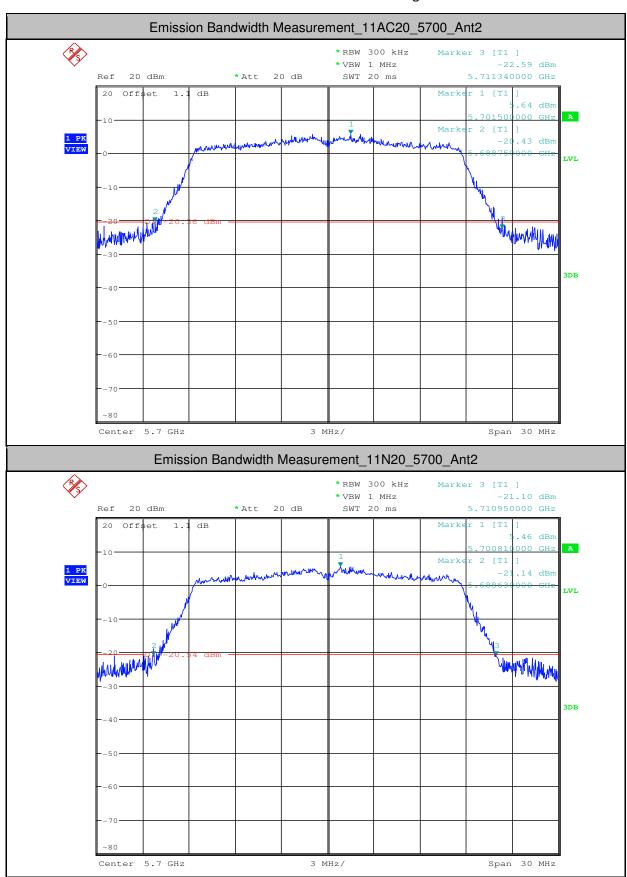
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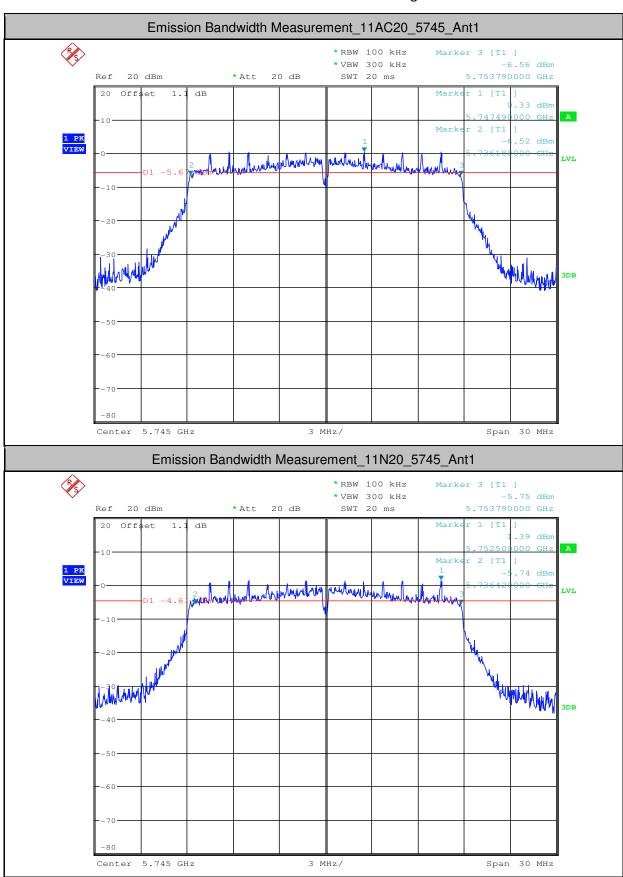
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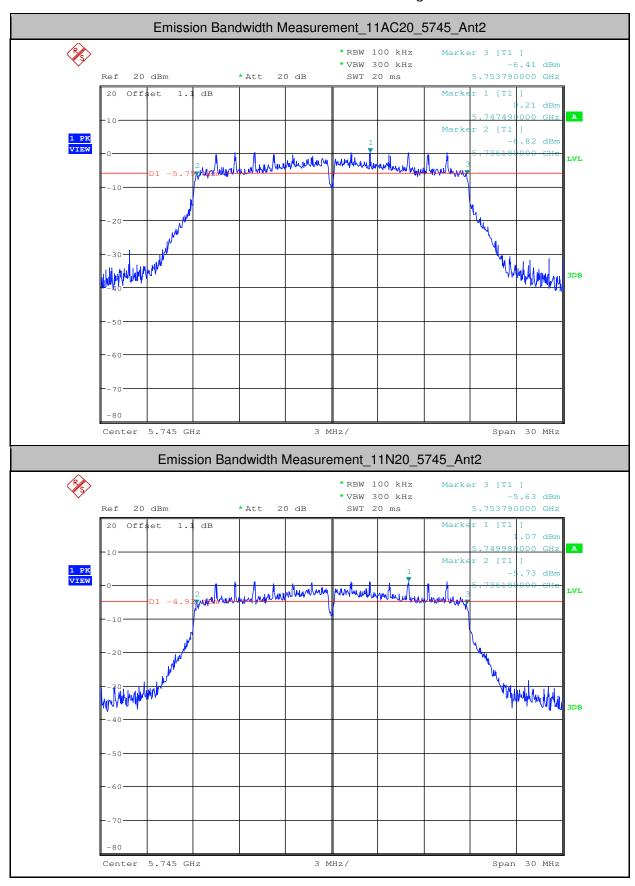
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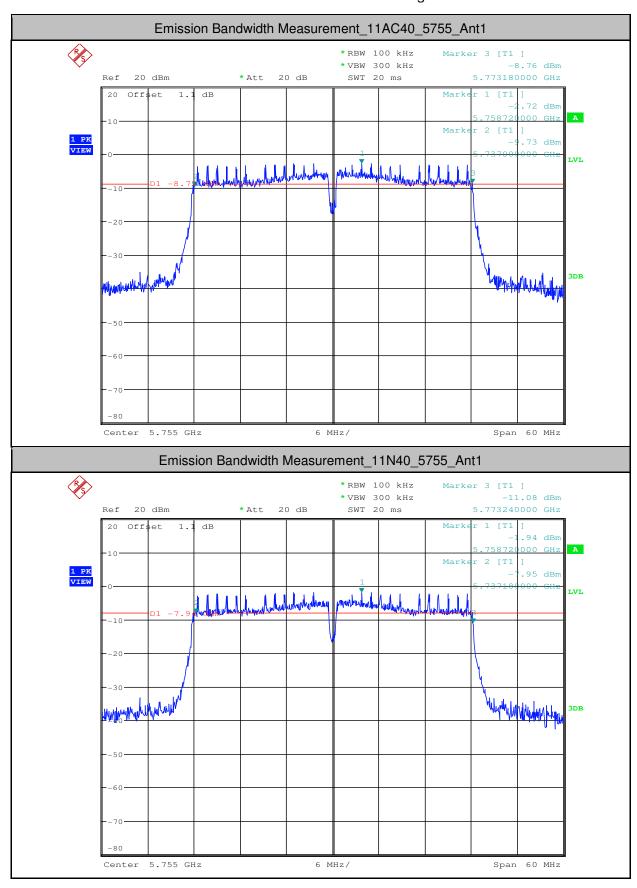
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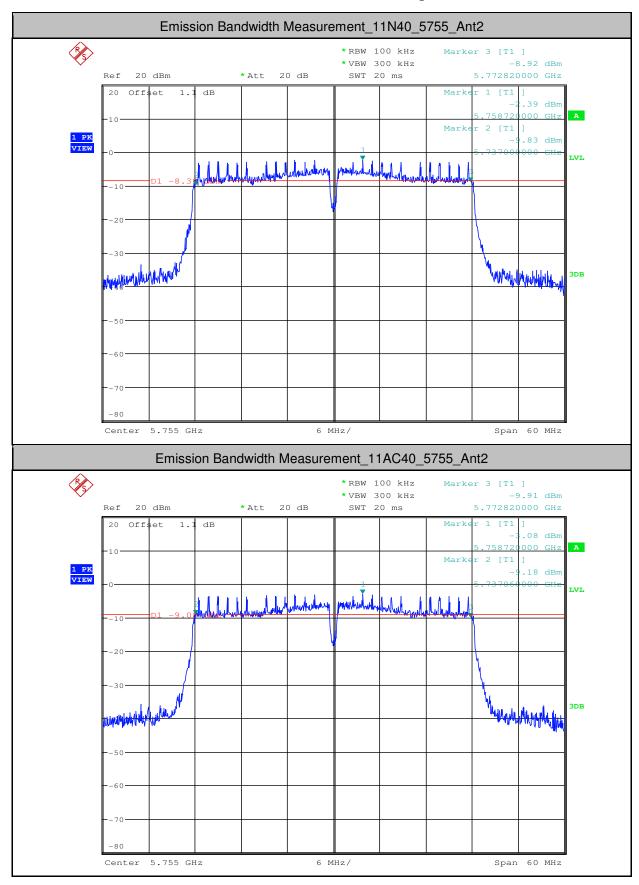
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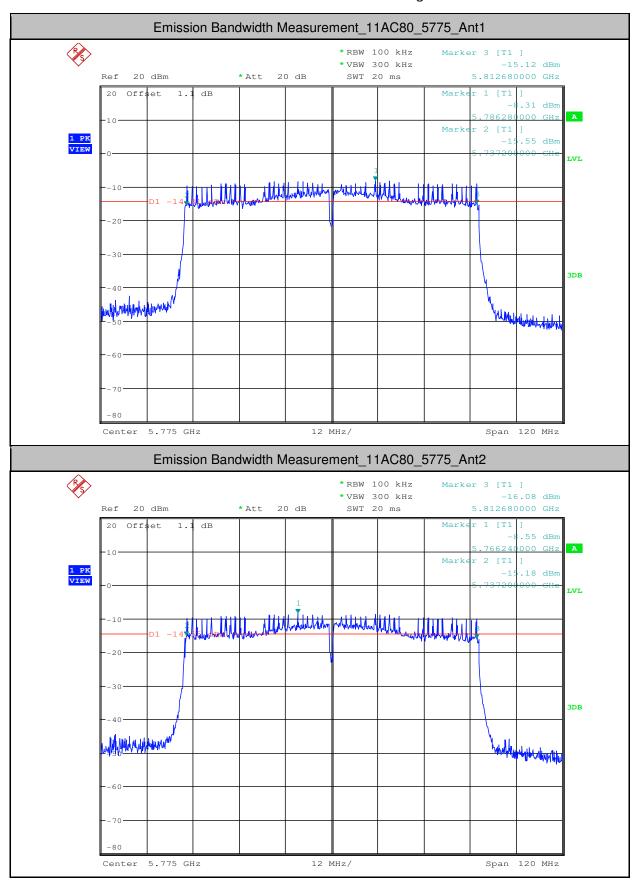
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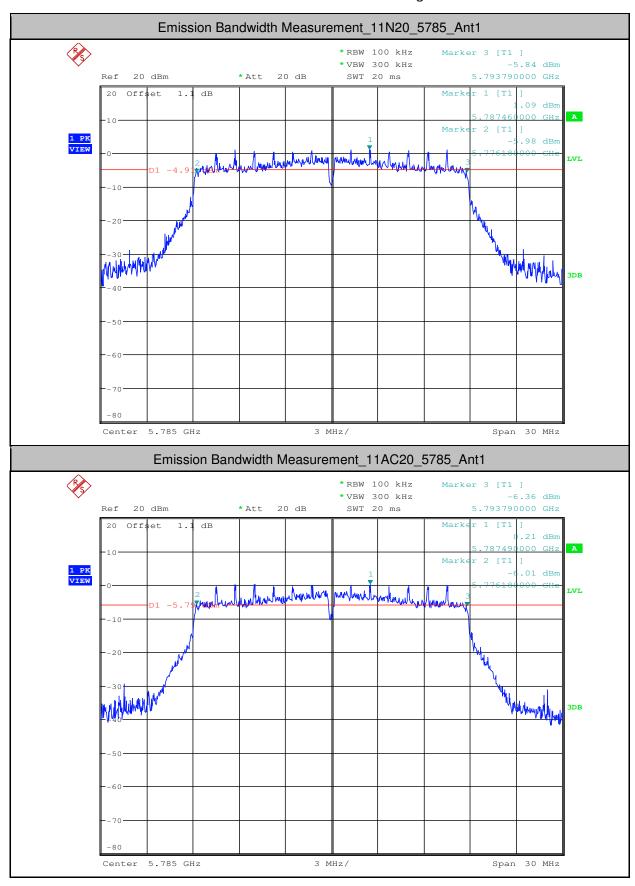
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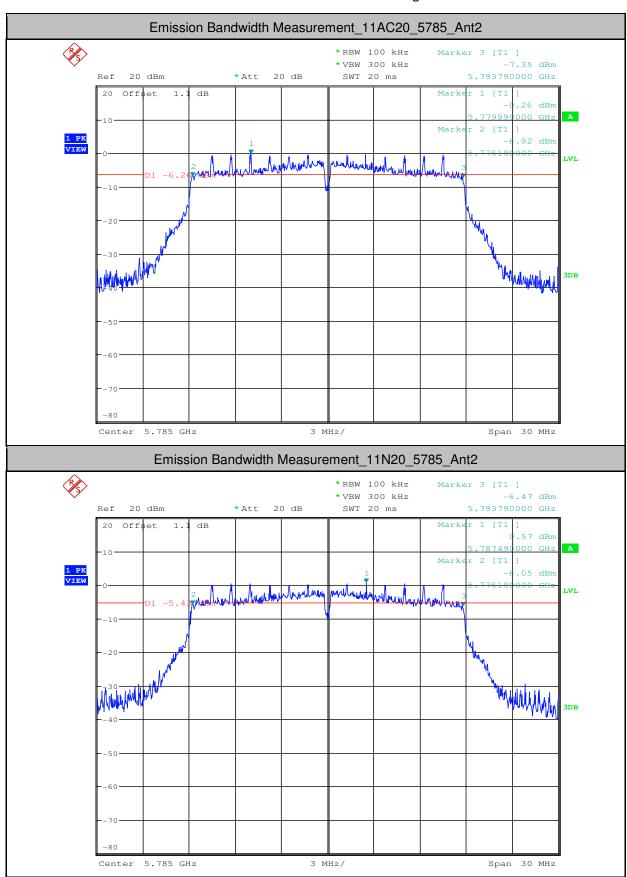
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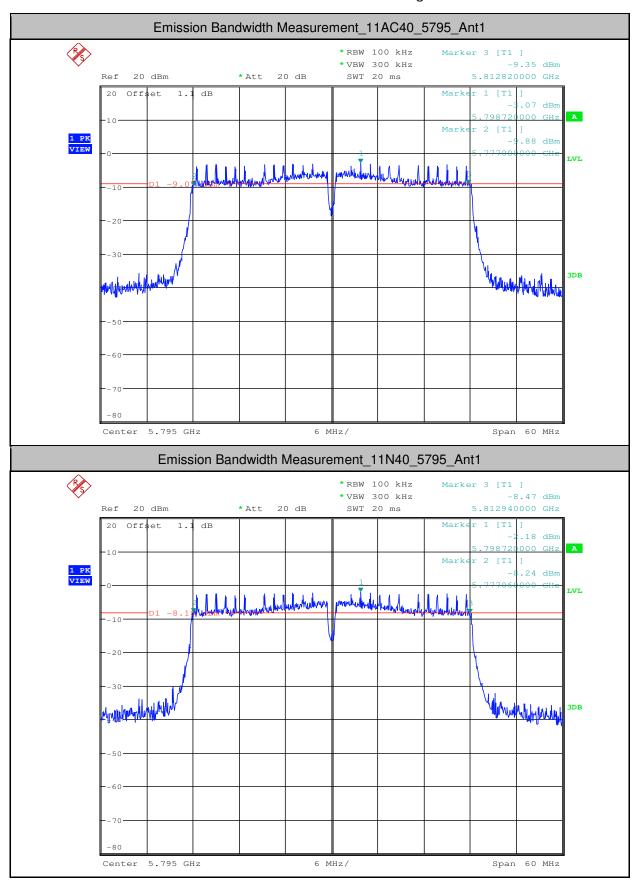
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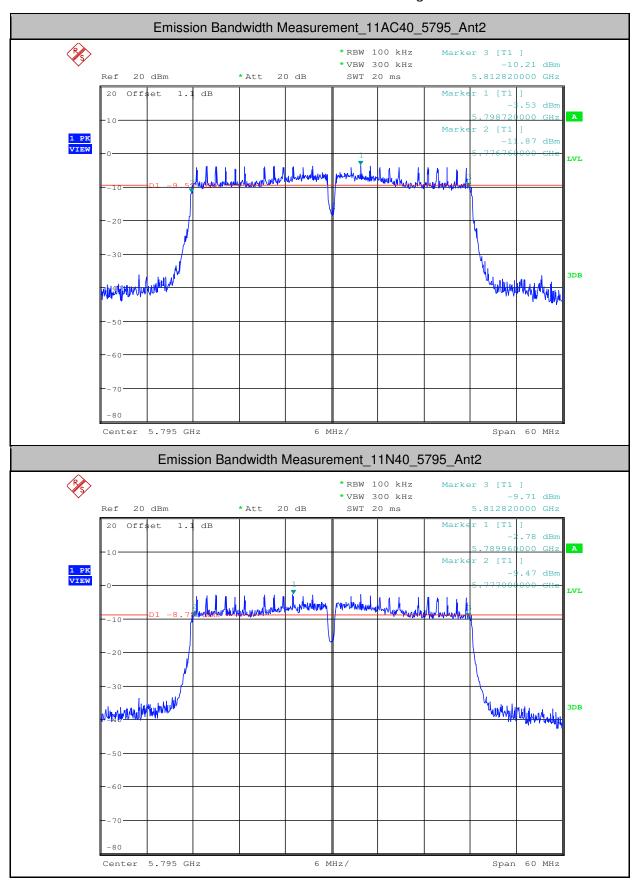
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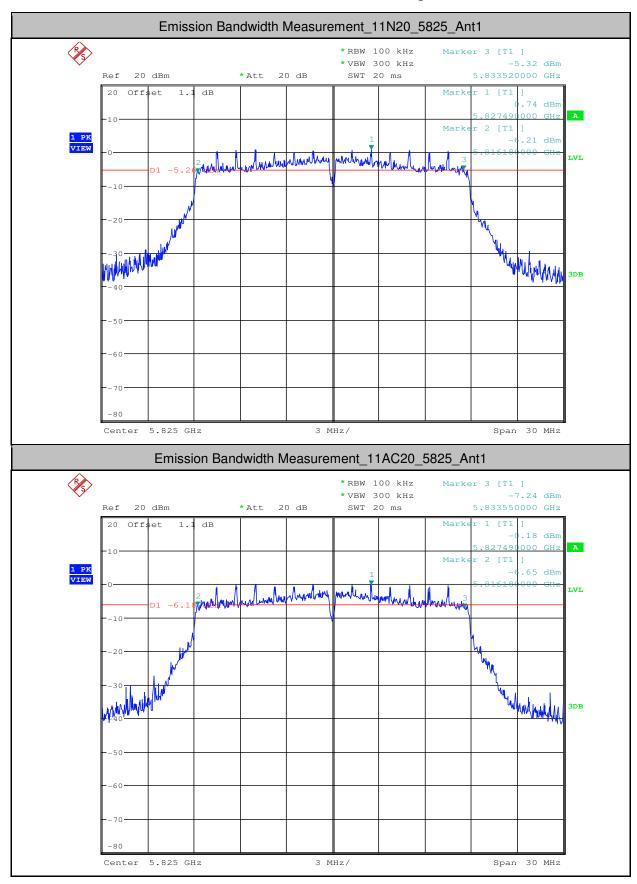
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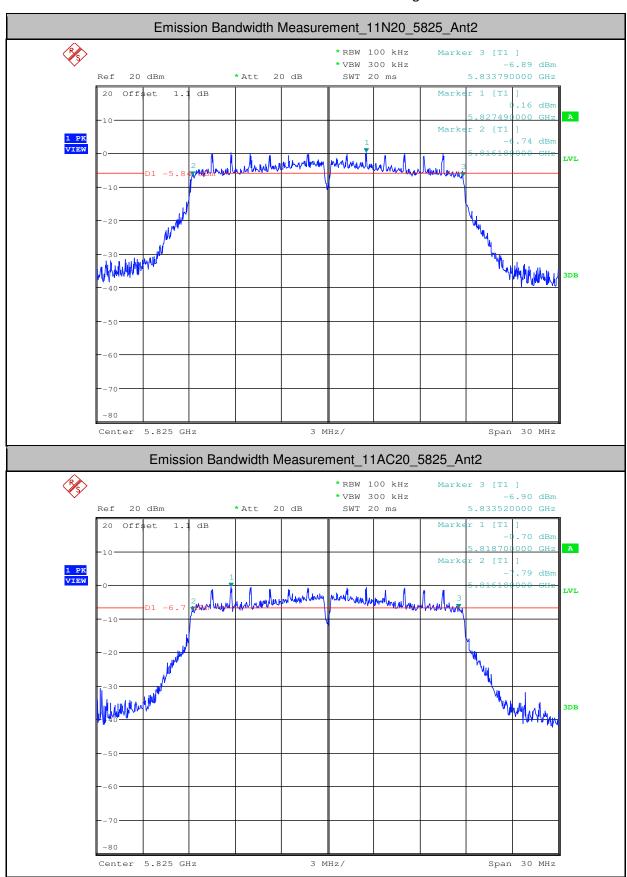
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#### 2.Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	5180	Ant1	13.33	0.33	13.66	<23.98	PASS
11A	5180	Ant2	12.54	0.33	12.87	<23.98	PASS
11A	5220	Ant1	13.59	0.34	13.93	<23.98	PASS
11A	5220	Ant2	12.85	0.34	13.19	<23.98	PASS
11A	5240	Ant1	13.87	0.33	14.20	<23.98	PASS
11A	5240	Ant2	13.21	0.34	13.55	<23.98	PASS
11A	5260	Ant1	14.49	0.34	14.83	<23.98	PASS
11A	5260	Ant2	13.42	0.34	13.76	<23.98	PASS
11A	5300	Ant1	13.93	0.33	14.26	<23.98	PASS
11A	5300	Ant2	13.74	0.34	14.08	<23.98	PASS
11A	5320	Ant1	13.74	0.35	14.09	<23.98	PASS
11A	5320	Ant2	13.24	0.33	13.57	<23.98	PASS
11A	5500	Ant1	13.57	0.33	13.90	<23.98	PASS
11A	5500	Ant2	12.34	0.33	12.67	<23.98	PASS
11A	5580	Ant1	12.96	0.33	13.29	<23.98	PASS
11A	5580	Ant2	13.02	0.33	13.35	<23.98	PASS
11A	5600	Ant1	13.11	0.33	13.44	<23.98	PASS
11A	5600	Ant2	13.14	0.34	13.48	<23.98	PASS
11A	5700	Ant1	14.22	0.33	14.55	<23.98	PASS
11A	5700	Ant2	14.15	0.34	14.49	<23.98	PASS
11A	5745	Ant1	14.44	0.35	14.79	<30.00	PASS
11A	5745	Ant2	14	0.33	14.33	<30.00	PASS
11A	5785	Ant1	14.03	0.33	14.36	<30.00	PASS
11A	5785	Ant2	13.71	0.34	14.05	<30.00	PASS
11A	5825	Ant1	13.84	0.33	14.17	<30.00	PASS
11A	5825	Ant2	13.44	0.33	13.77	<30.00	PASS
11AC20	5180	Ant1	12.23	0.36	12.59	<23.98	PASS
11N20	5180	Ant1	12.29	0.37	12.66	<23.98	PASS
11N20	5180	Ant2	11.57	0.37	11.94	<23.98	PASS
11AC20	5180	Ant2	12.42	0.35	12.77	<23.98	PASS
11AC40	5190	Ant1	11.9	0.68	12.58	<23.98	PASS

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11N40	5190	Ant1	11.72	0.68	12.40	<23.98	PASS
11N40	5190	Ant2	11.47	0.69	12.16	<23.98	PASS
11AC40	5190	Ant2	11.2	0.68	11.88	<23.98	PASS
11AC80	5210	Ant1	9.73	1.24	10.97	<23.98	PASS
11AC80	5210	Ant2	9.01	1.24	10.25	<23.98	PASS
11N20	5220	Ant1	12.59	0.37	12.96	<23.98	PASS
11AC20	5220	Ant1	12.69	0.35	13.04	<23.98	PASS
11N20	5220	Ant2	12.32	0.37	12.69	<23.98	PASS
11AC20	5220	Ant2	12.24	0.35	12.59	<23.98	PASS
11AC40	5230	Ant1	12.26	0.68	12.94	<23.98	PASS
11N40	5230	Ant1	12.23	0.68	12.91	<23.98	PASS
11AC40	5230	Ant2	12.01	0.71	12.72	<23.98	PASS
11N40	5230	Ant2	12.25	0.69	12.94	<23.98	PASS
11AC20	5240	Ant1	13.05	0.36	13.41	<23.98	PASS
11N20	5240	Ant1	12.87	0.37	13.24	<23.98	PASS
11AC20	5240	Ant2	12.99	0.35	13.34	<23.98	PASS
11N20	5240	Ant2	12.87	0.37	13.24	<23.98	PASS
11N20	5260	Ant1	13.13	0.37	13.50	<23.98	PASS
11AC20	5260	Ant1	12.97	0.37	13.34	<23.98	PASS
11N20	5260	Ant2	13.17	0.37	13.54	<23.98	PASS
11AC20	5260	Ant2	13.16	0.36	13.52	<23.98	PASS
11AC40	5270	Ant1	11.84	0.68	12.52	<23.98	PASS
11N40	5270	Ant1	12.66	0.68	13.34	<23.98	PASS
11AC40	5270	Ant2	12.64	0.68	13.32	<23.98	PASS
11N40	5270	Ant2	12.74	0.72	13.46	<23.98	PASS
11AC80	5290	Ant1	10.06	1.24	11.30	<23.98	PASS
11AC80	5290	Ant2	9.96	1.22	11.18	<23.98	PASS
11AC20	5300	Ant1	12.96	0.35	13.31	<23.98	PASS
11N20	5300	Ant1	13	0.37	13.37	<23.98	PASS
11N20	5300	Ant2	13.05	0.37	13.42	<23.98	PASS
11AC20	5300	Ant2	13.06	0.36	13.42	<23.98	PASS
11N40	5310	Ant1	12.32	0.72	13.04	<23.98	PASS
11AC40	5310	Ant1	11.72	0.68	12.40	<23.98	PASS
11N40	5310	Ant2	12.36	0.72	13.08	<23.98	PASS

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11AC40	5310	Ant2	12.12	0.71	12.83	<23.98	PASS
11N20	5320	Ant1	13.09	0.35	13.44	<23.98	PASS
11AC20	5320	Ant1	12.87	0.36	13.23	<23.98	PASS
11N20	5320	Ant2	12.8	0.35	13.15	<23.98	PASS
11AC20	5320	Ant2	12.76	0.35	13.11	<23.98	PASS
11AC20	5500	Ant1	11.76	0.36	12.12	<23.98	PASS
11N20	5500	Ant1	11.64	0.35	11.99	<23.98	PASS
11AC20	5500	Ant2	11.49	0.35	11.84	<23.98	PASS
11N20	5500	Ant2	12.43	0.35	12.78	<23.98	PASS
11AC40	5510	Ant1	11.28	0.68	11.96	<23.98	PASS
11N40	5510	Ant1	11.2	0.69	11.89	<23.98	PASS
11AC40	5510	Ant2	10.91	0.71	11.62	<23.98	PASS
11N40	5510	Ant2	11.02	0.68	11.70	<23.98	PASS
11AC80	5530	Ant1	8.69	1.24	9.93	<23.98	PASS
11AC80	5530	Ant2	9.6	1.24	10.84	<23.98	PASS
11AC40	5550	Ant1	11.24	0.68	11.92	<23.98	PASS
11N40	5550	Ant1	11.02	0.72	11.74	<23.98	PASS
11AC40	5550	Ant2	11.21	0.68	11.89	<23.98	PASS
11N40	5550	Ant2	11.24	0.69	11.93	<23.98	PASS
11N20	5580	Ant1	12	0.37	12.37	<23.98	PASS
11AC20	5580	Ant1	11.98	0.36	12.34	<23.98	PASS
11AC20	5580	Ant2	12.31	0.35	12.66	<23.98	PASS
11N20	5580	Ant2	12.78	0.35	13.13	<23.98	PASS
11N40	5590	Ant1	11.5	0.72	12.22	<23.98	PASS
11AC40	5590	Ant1	11.69	0.71	12.40	<23.98	PASS
11AC40	5590	Ant2	11.74	0.71	12.45	<23.98	PASS
11N40	5590	Ant2	11.76	0.72	12.48	<23.98	PASS
11AC20	5600	Ant1	12.36	0.35	12.71	<23.98	PASS
11N20	5600	Ant1	12.21	0.35	12.56	<23.98	PASS
11N20	5600	Ant2	13.23	0.37	13.60	<23.98	PASS
11AC20	5600	Ant2	12.35	0.35	12.70	<23.98	PASS
11AC80	5610	Ant1	9.43	1.22	10.65	<23.98	PASS
11AC80	5610	Ant2	8.84	1.24	10.08	<23.98	PASS
11N40	5670	Ant1	12.7	0.68	13.38	<23.98	PASS

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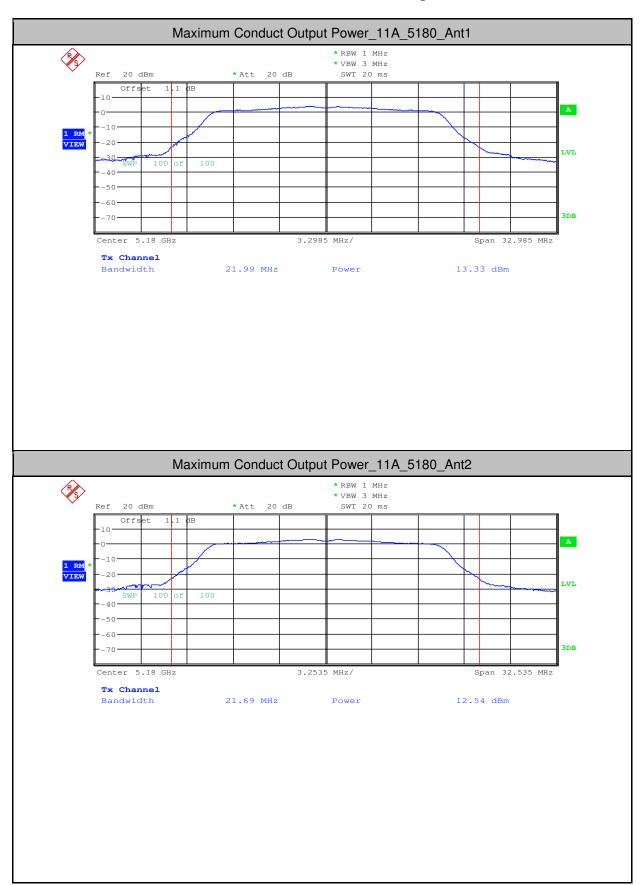
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-					_		
11AC40	5670	Ant1	12.7	0.68	13.38	<23.98	PASS
11N40	5670	Ant2	12.28	0.68	12.96	<23.98	PASS
11AC40	5670	Ant2	12.43	0.71	13.14	<23.98	PASS
11N20	5700	Ant1	13.31	0.37	13.68	<23.98	PASS
11AC20	5700	Ant1	13.52	0.35	13.87	<23.98	PASS
11AC20	5700	Ant2	13.29	0.35	13.64	<23.98	PASS
11N20	5700	Ant2	13.32	0.37	13.69	<23.98	PASS
11AC20	5745	Ant1	12.55	0.35	12.90	<30.00	PASS
11N20	5745	Ant1	13.5	0.35	13.85	<30.00	PASS
11AC20	5745	Ant2	12.38	0.36	12.74	<30.00	PASS
11N20	5745	Ant2	13.32	0.35	13.67	<30.00	PASS
11AC40	5755	Ant1	12.23	0.68	12.91	<30.00	PASS
11N40	5755	Ant1	13.05	0.69	13.74	<30.00	PASS
11N40	5755	Ant2	12.58	0.72	13.30	<30.00	PASS
11AC40	5755	Ant2	11.89	0.71	12.60	<30.00	PASS
11AC80	5775	Ant1	9.55	1.27	10.82	<30.00	PASS
11AC80	5775	Ant2	9.17	1.24	10.41	<30.00	PASS
11N20	5785	Ant1	13.27	0.35	13.62	<30.00	PASS
11AC20	5785	Ant1	12.34	0.35	12.69	<30.00	PASS
11AC20	5785	Ant2	11.86	0.37	12.23	<30.00	PASS
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11AC40	5795	Ant1	11.93	0.68	12.61	<30.00	PASS
11N40	5795	Ant1	12.76	0.68	13.44	<30.00	PASS
11AC40	5795	Ant2	11.47	0.71	12.18	<30.00	PASS
11N40	5795	Ant2	12.16	0.72	12.88	<30.00	PASS
11N20	5825	Ant1	12.83	0.35	13.18	<30.00	PASS
11AC20	5825	Ant1	11.97	0.36	12.33	<30.00	PASS
11N20	5825	Ant2	12.33	0.37	12.70	<30.00	PASS
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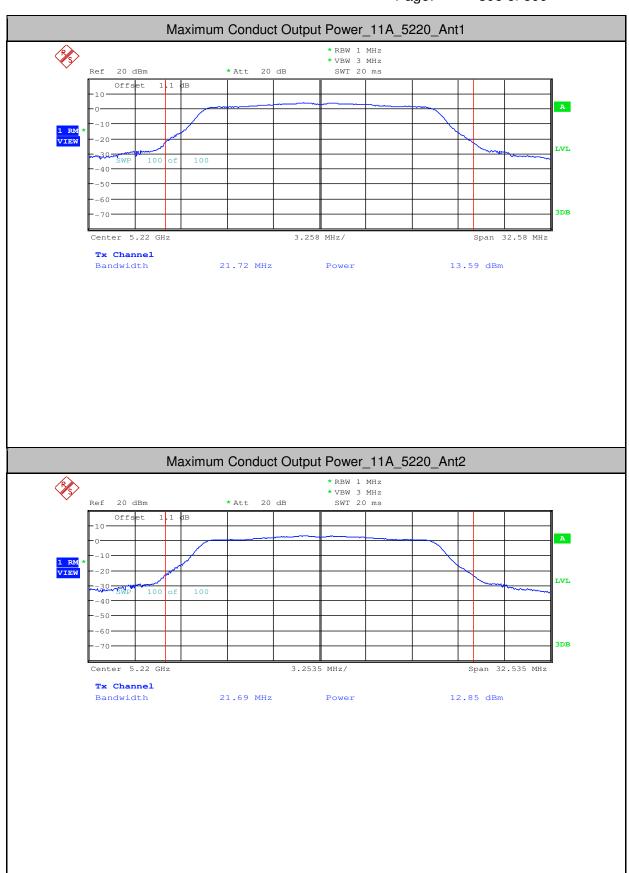
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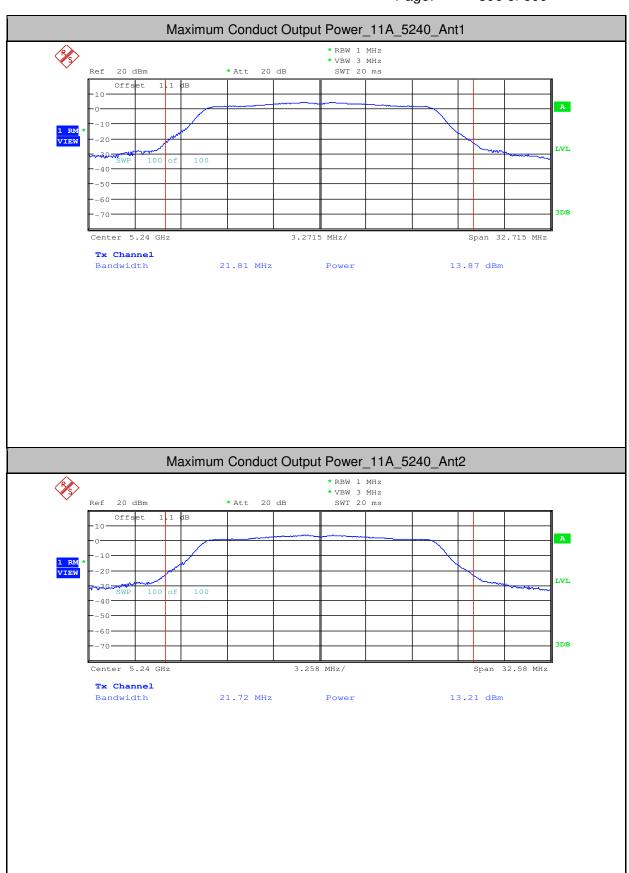
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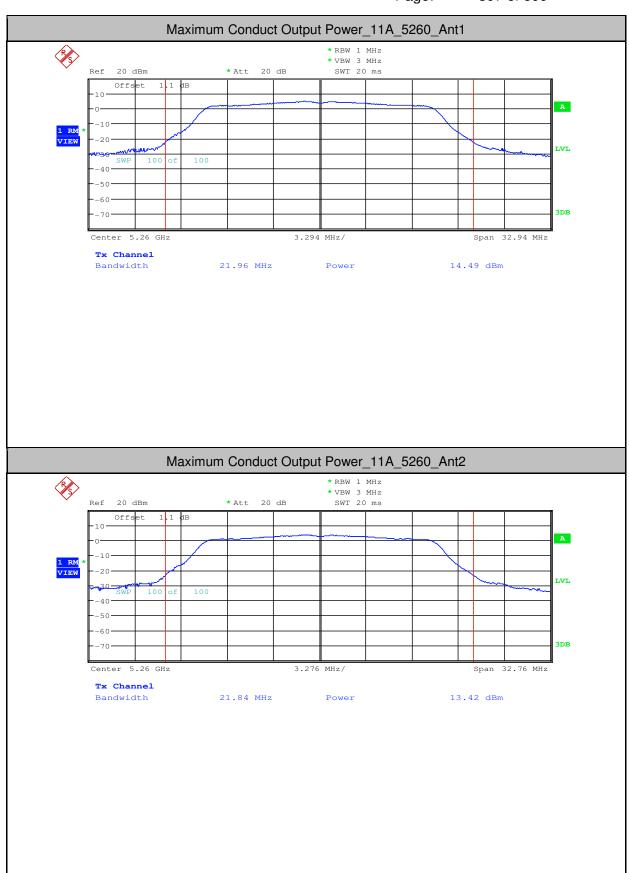
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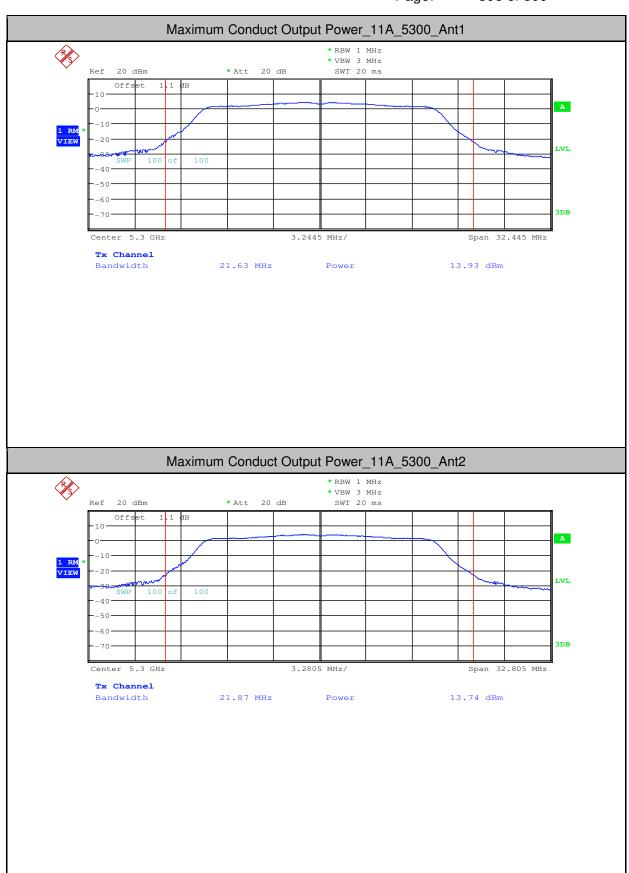
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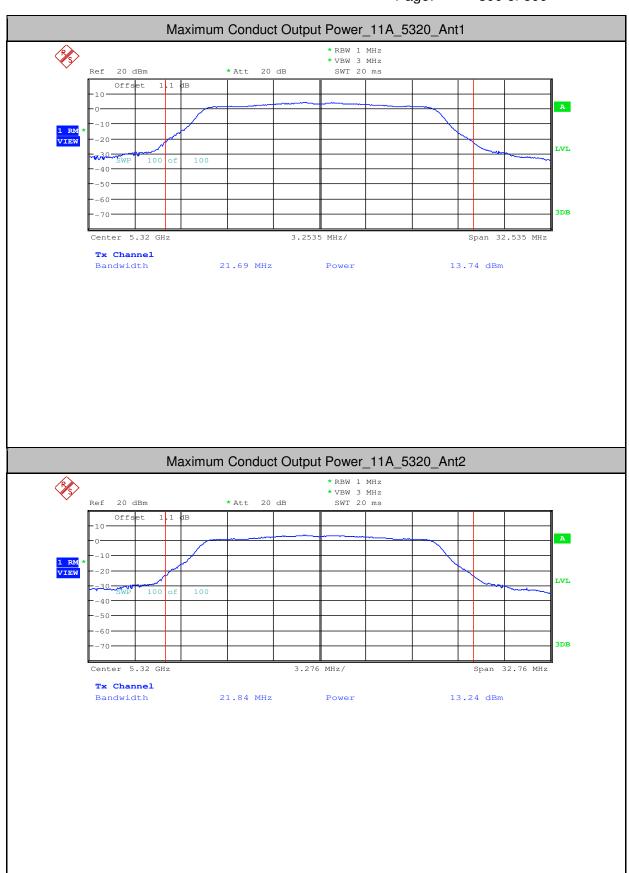
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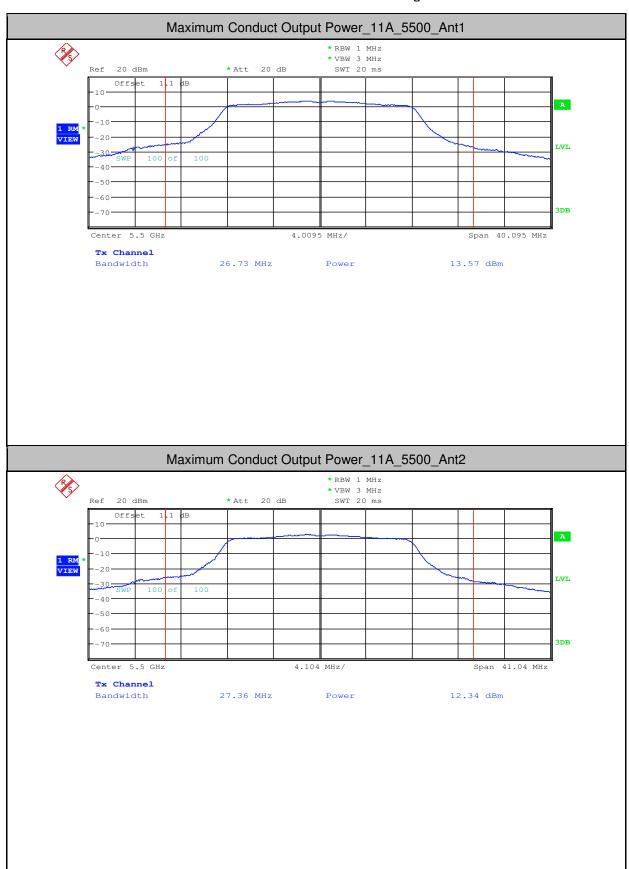
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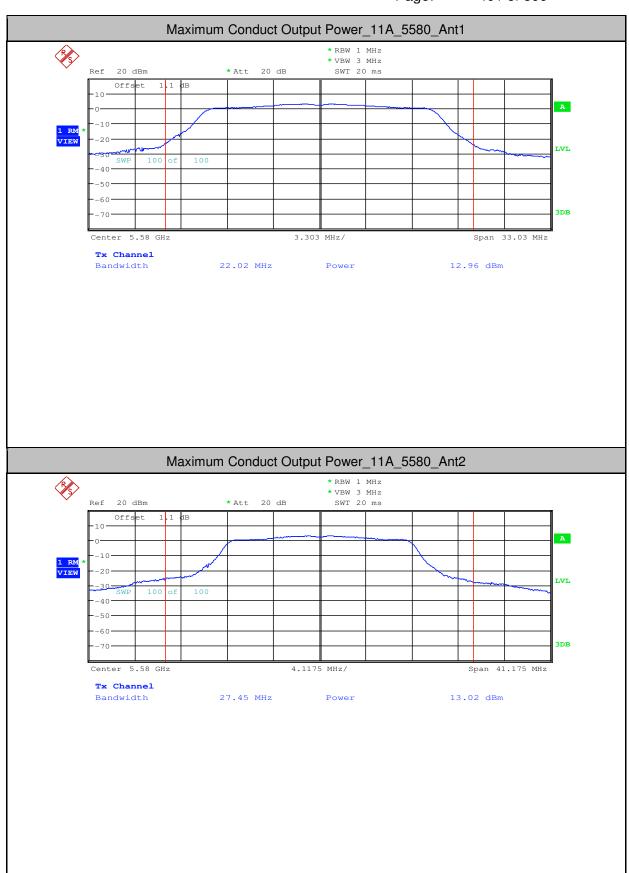
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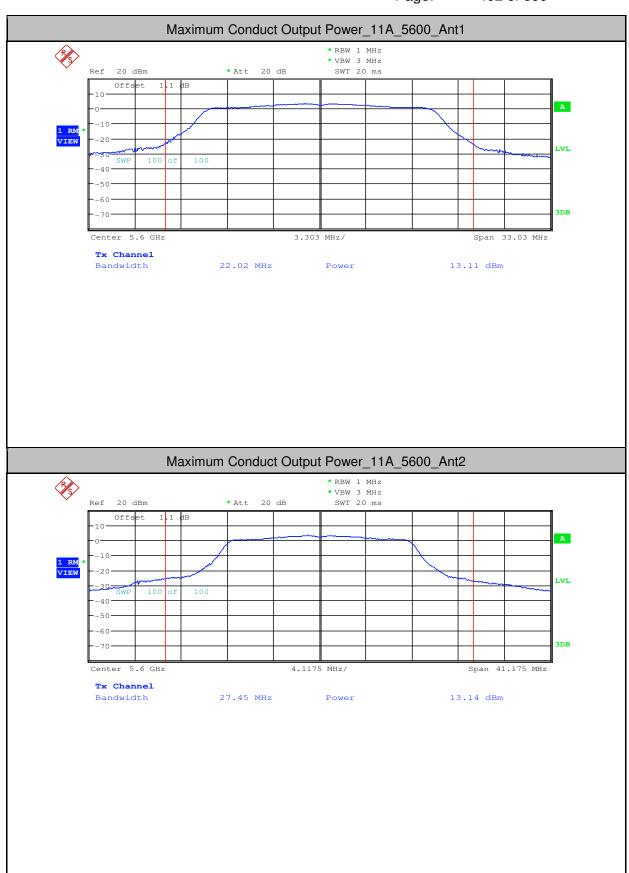
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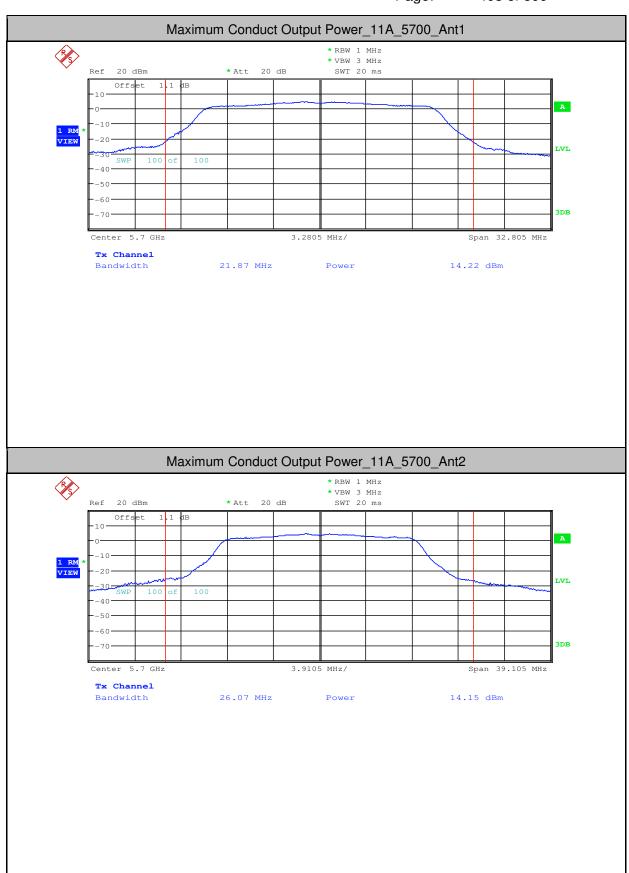
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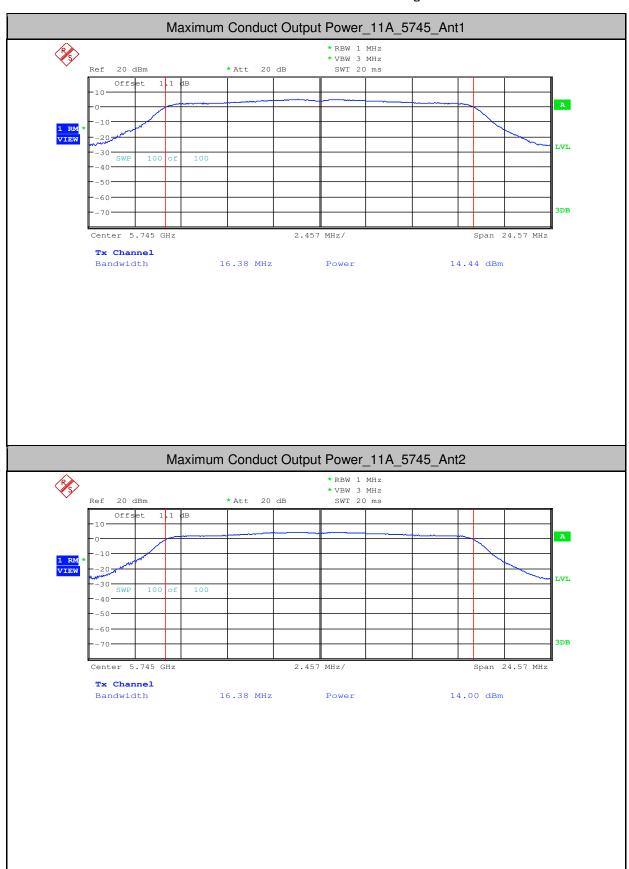
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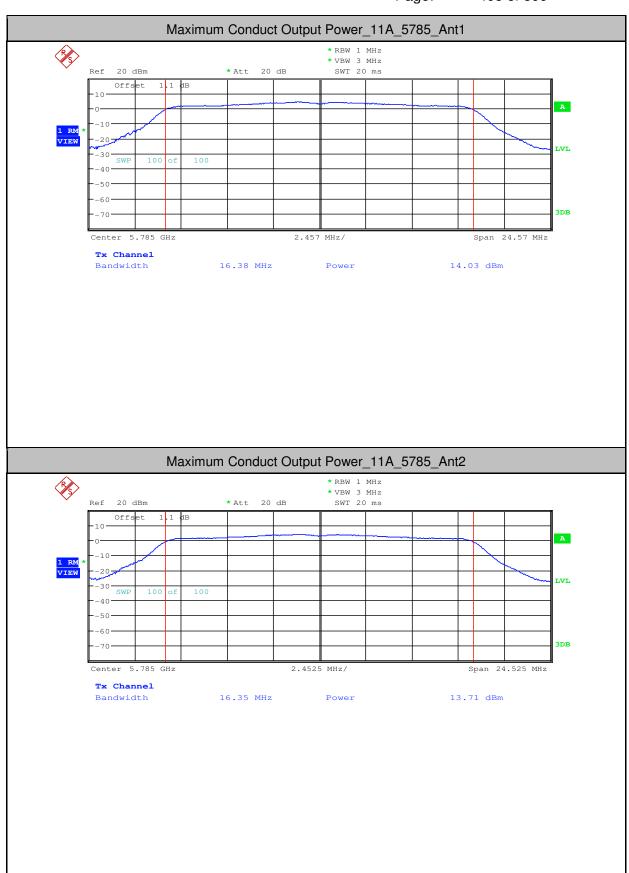
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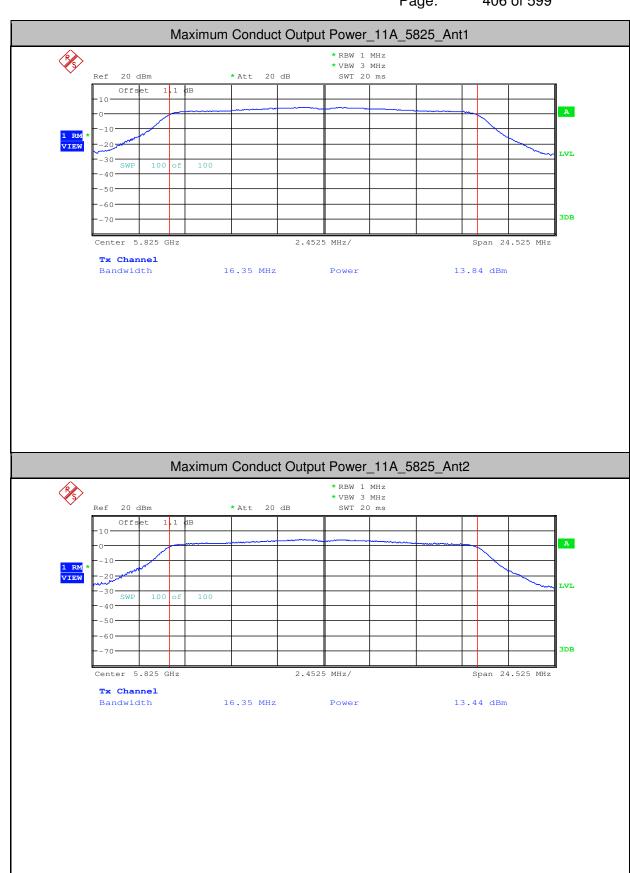
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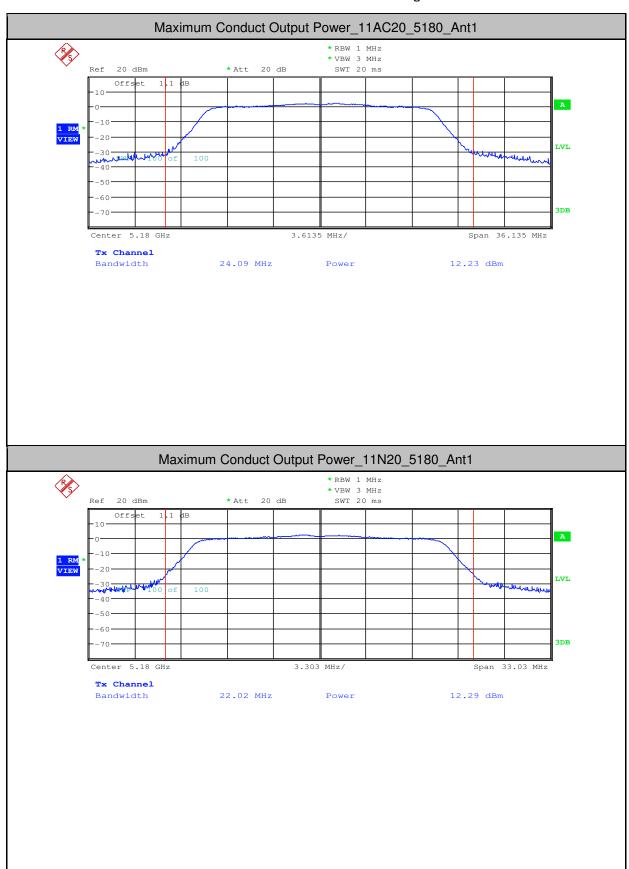
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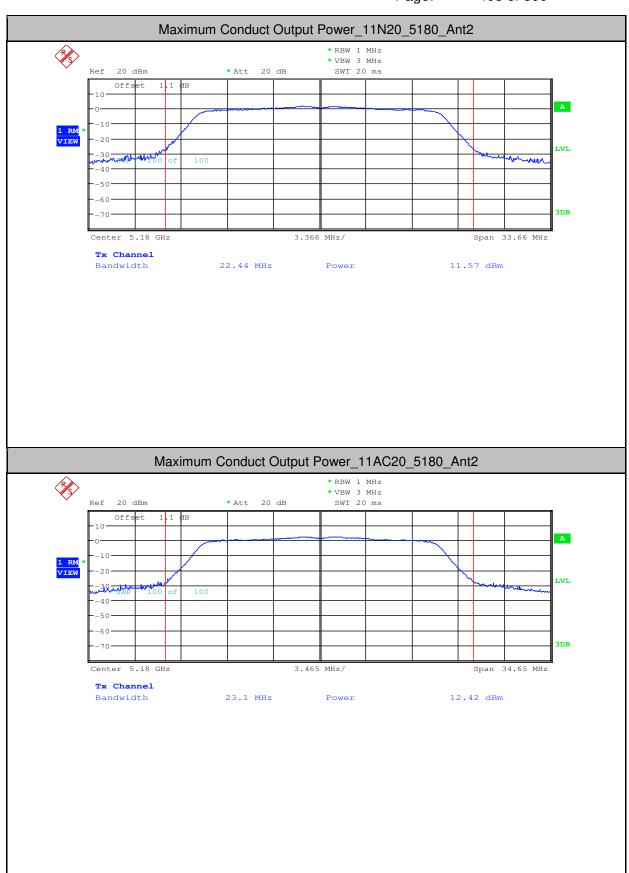
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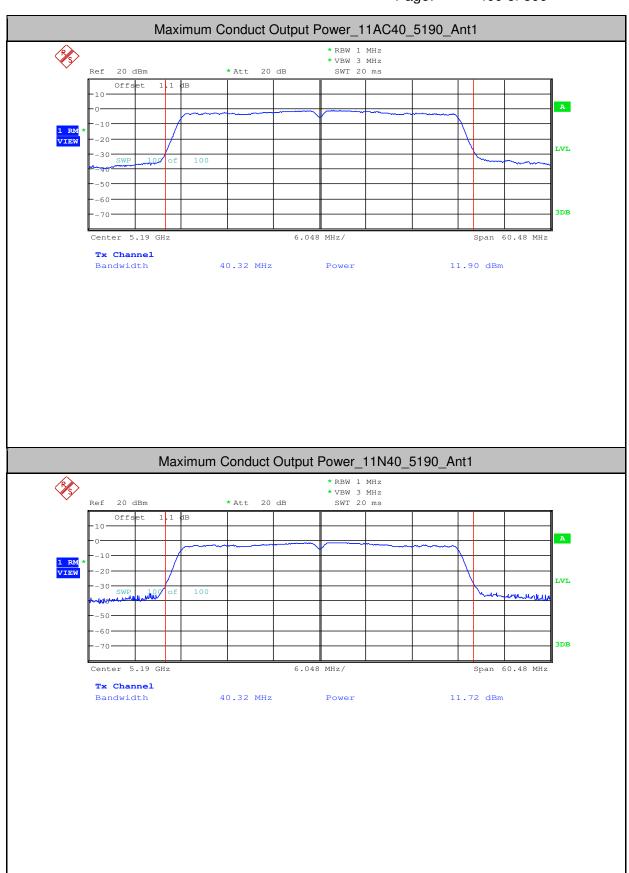
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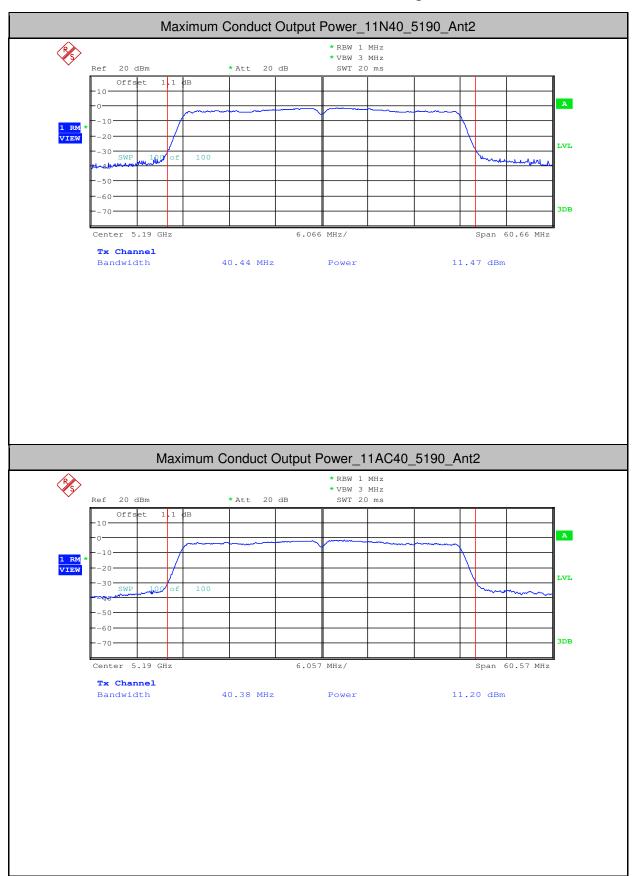
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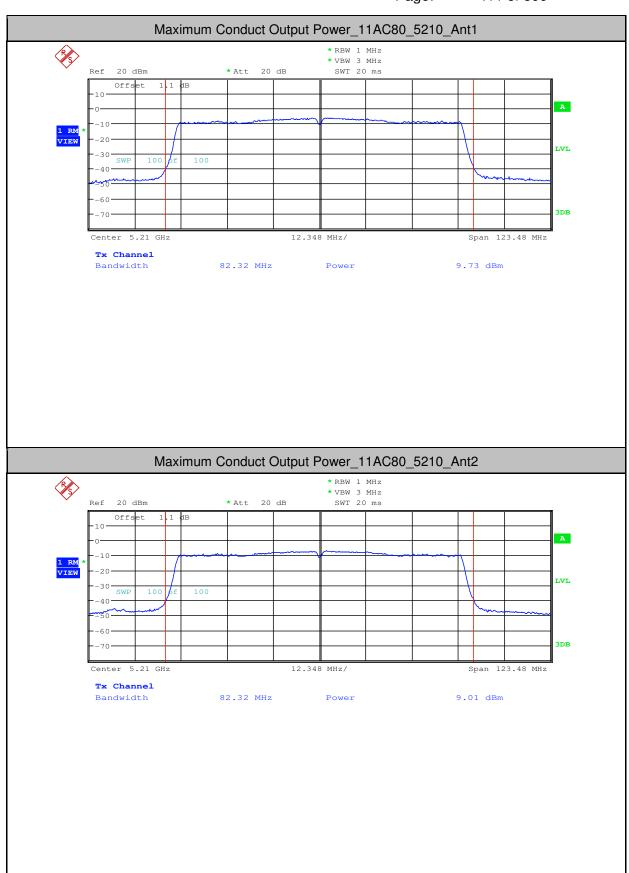
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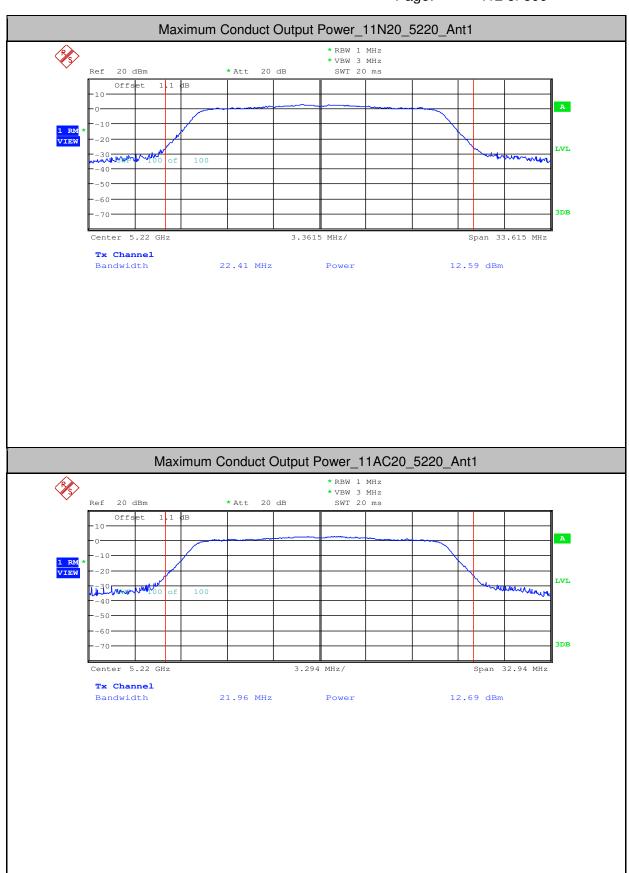
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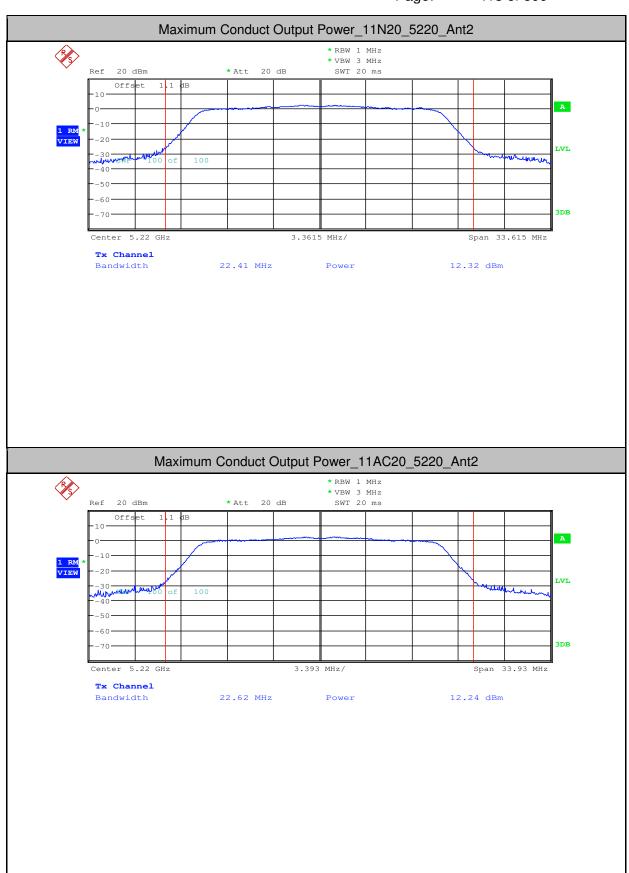
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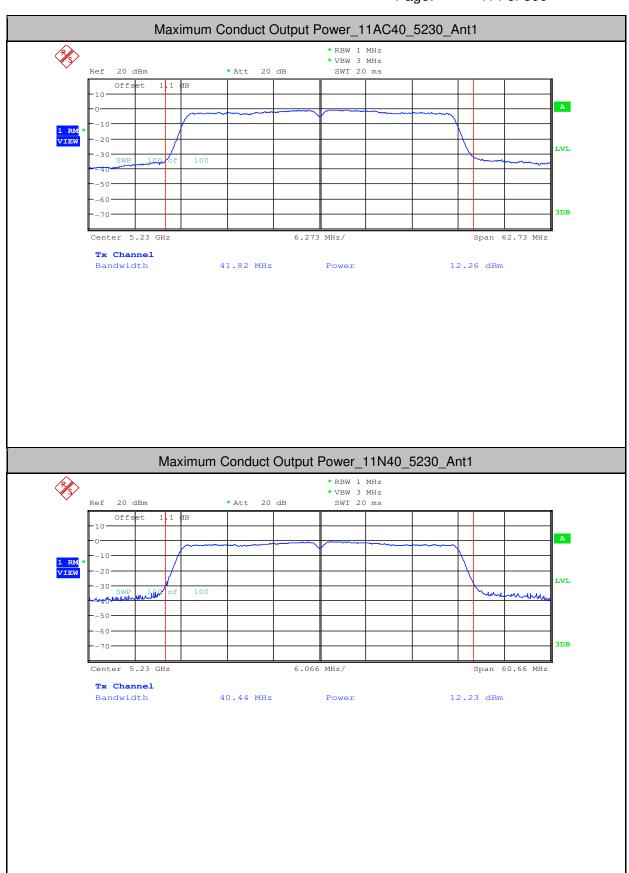
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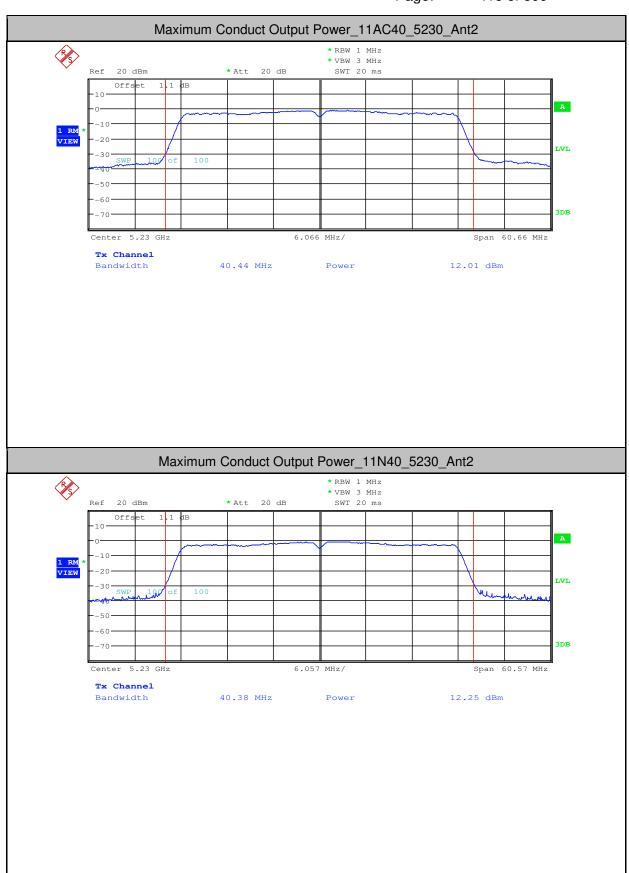
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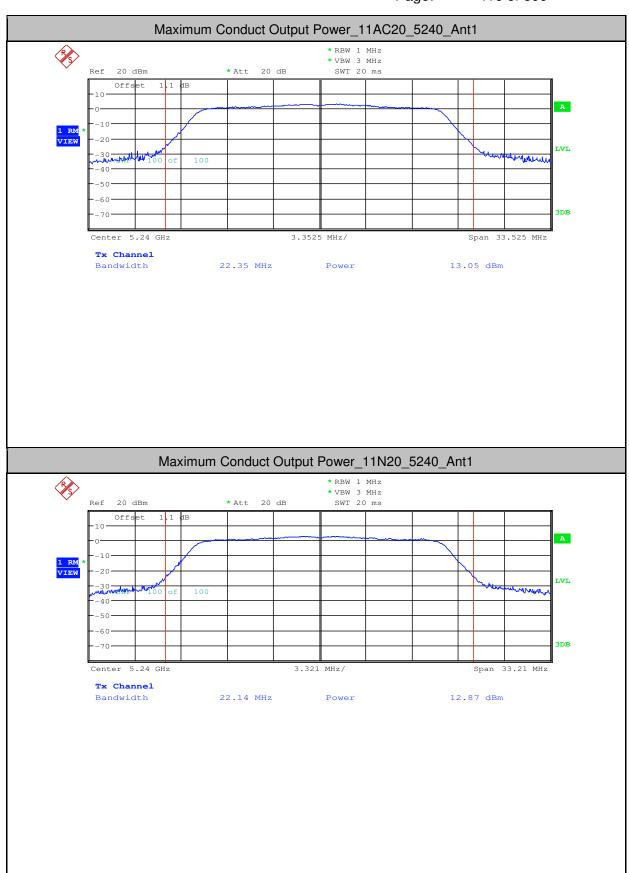
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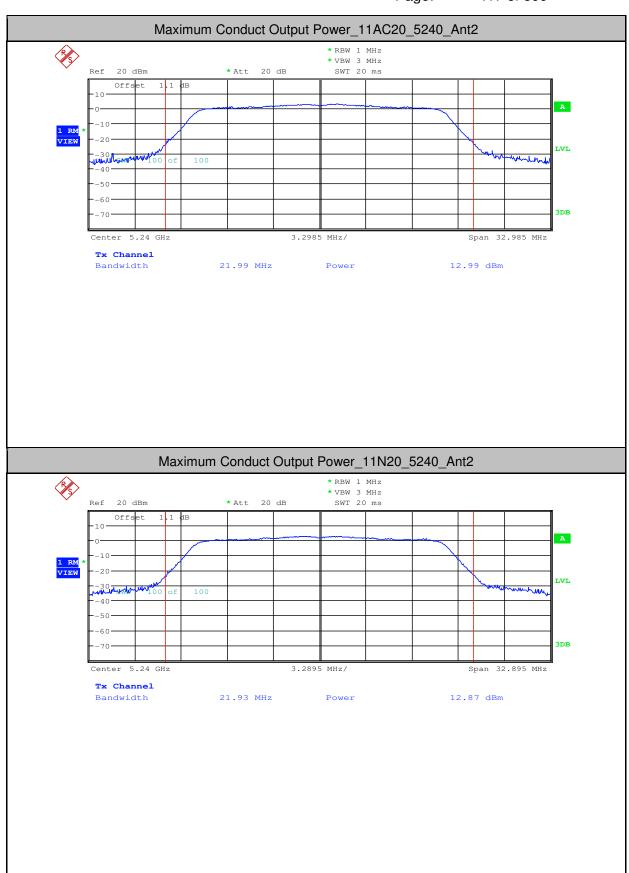
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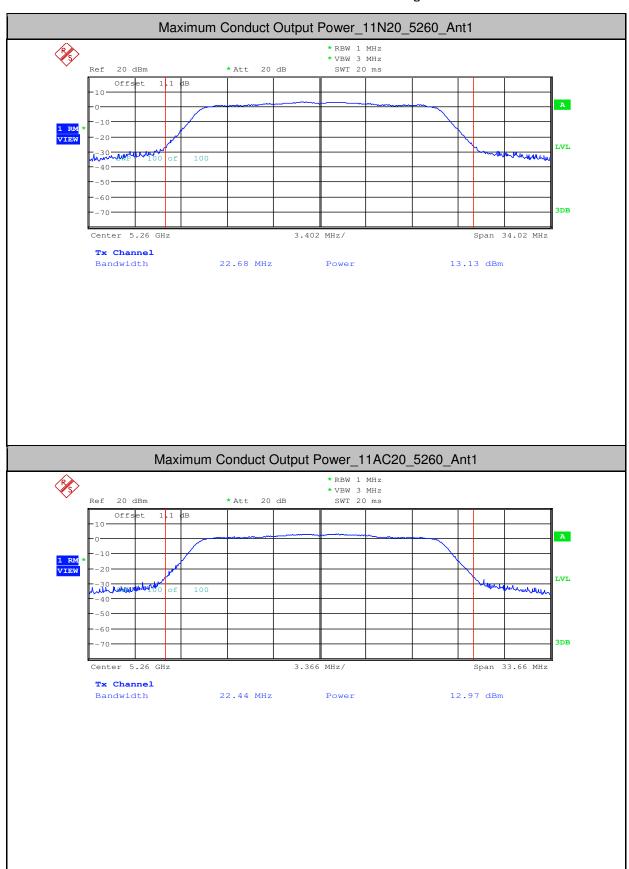
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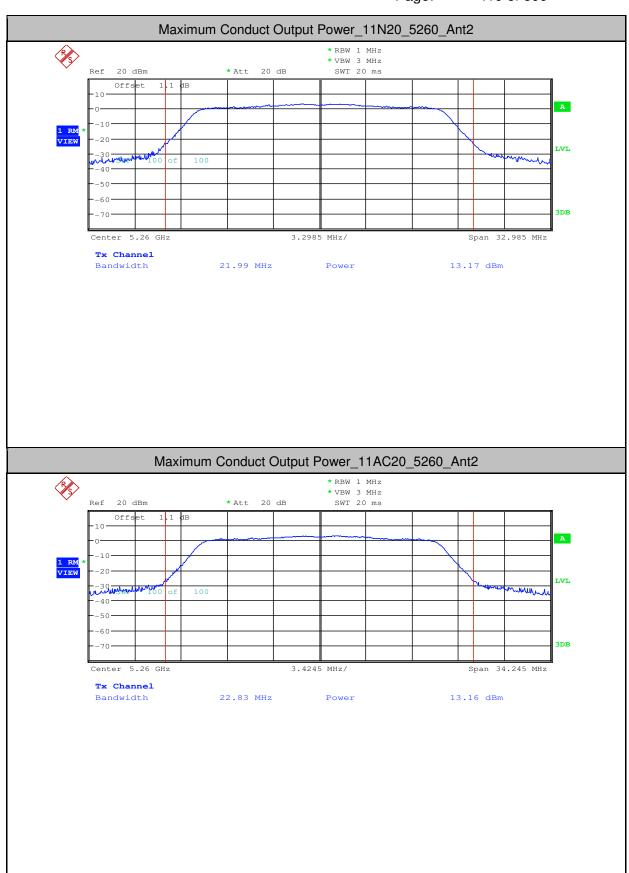
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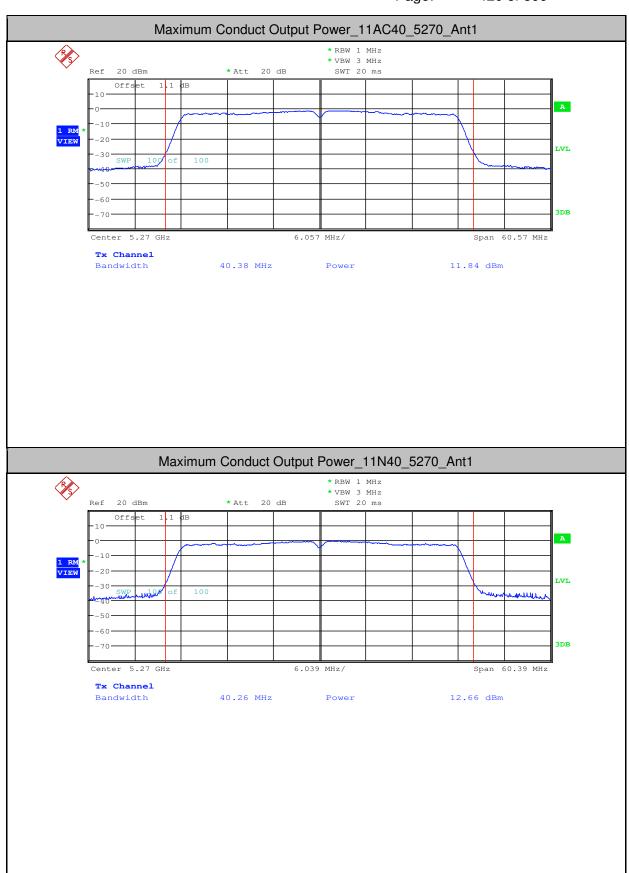
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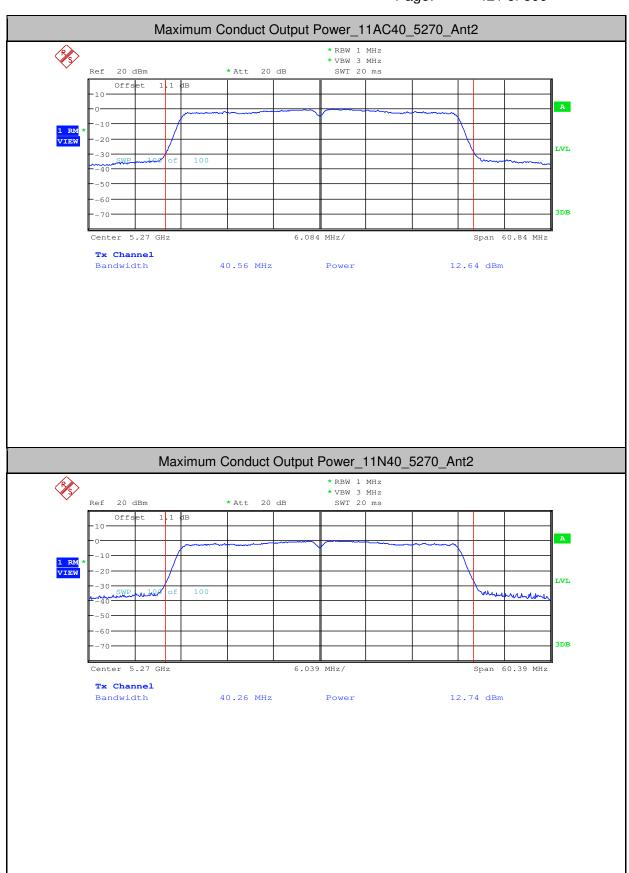
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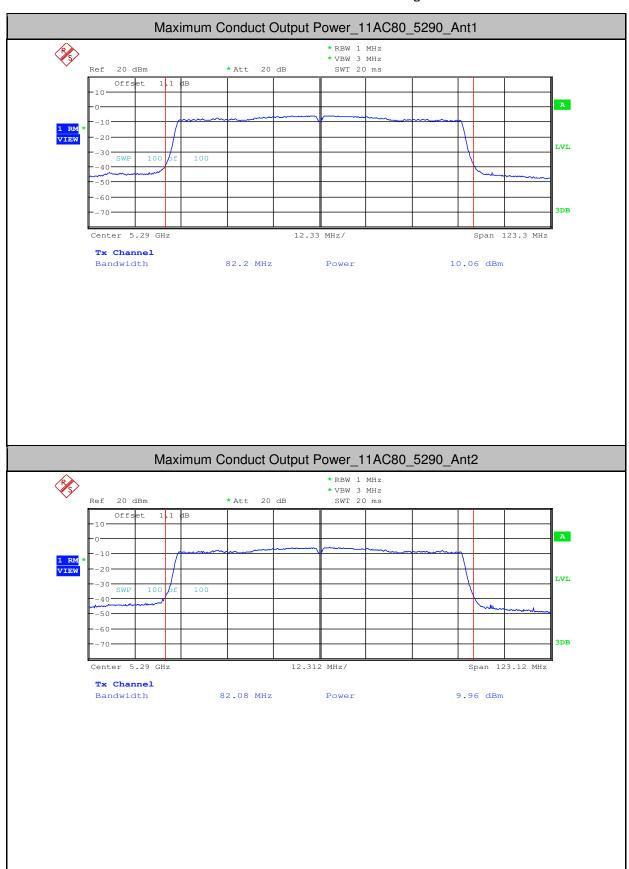
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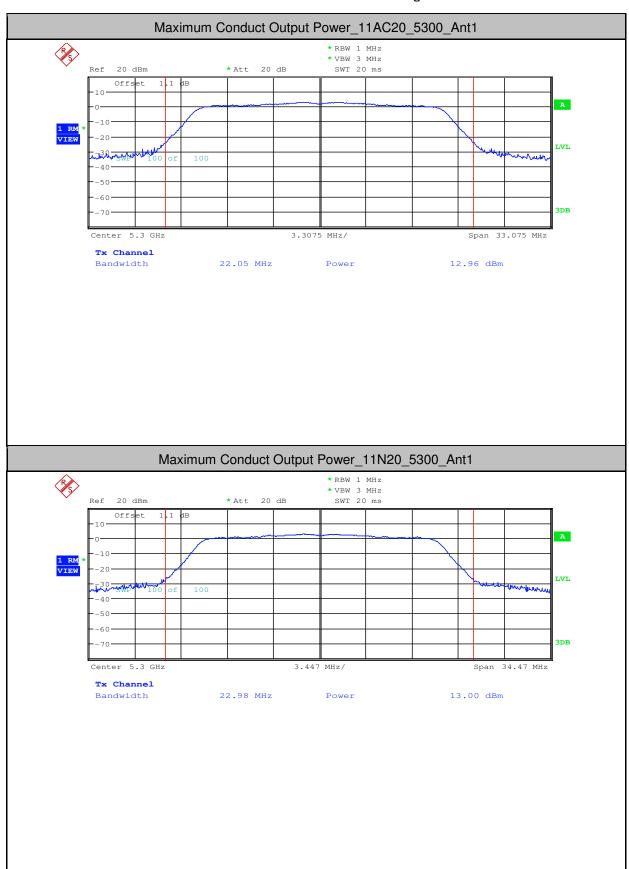
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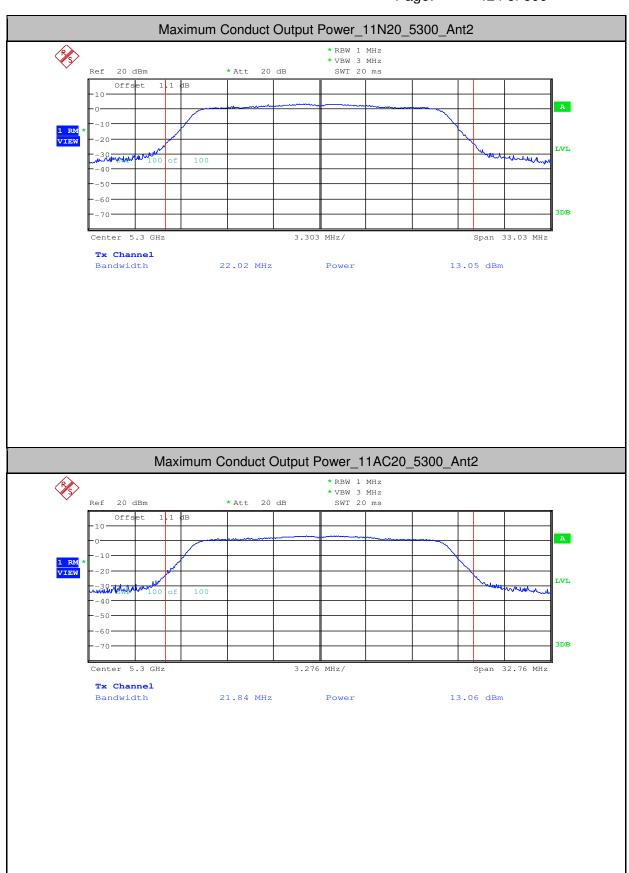
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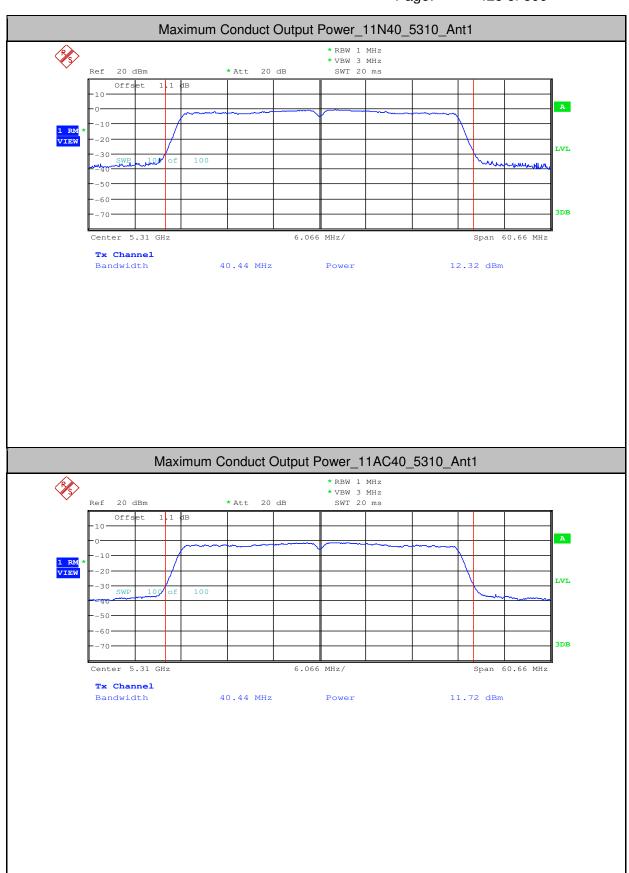
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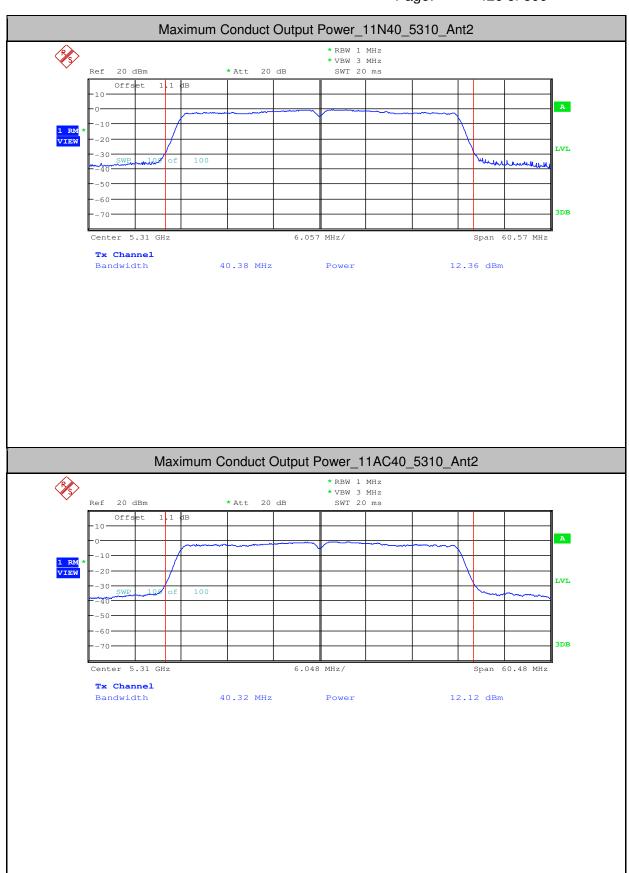
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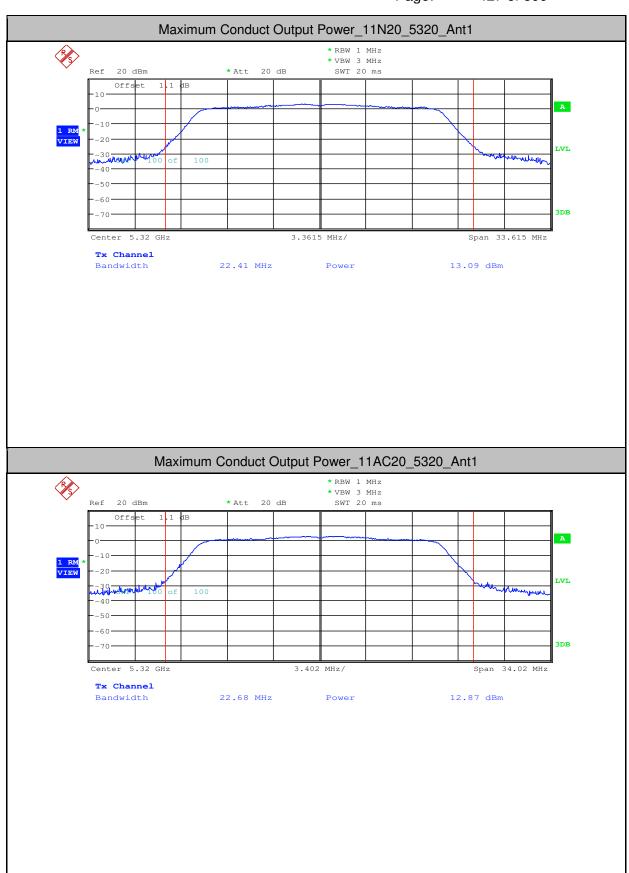
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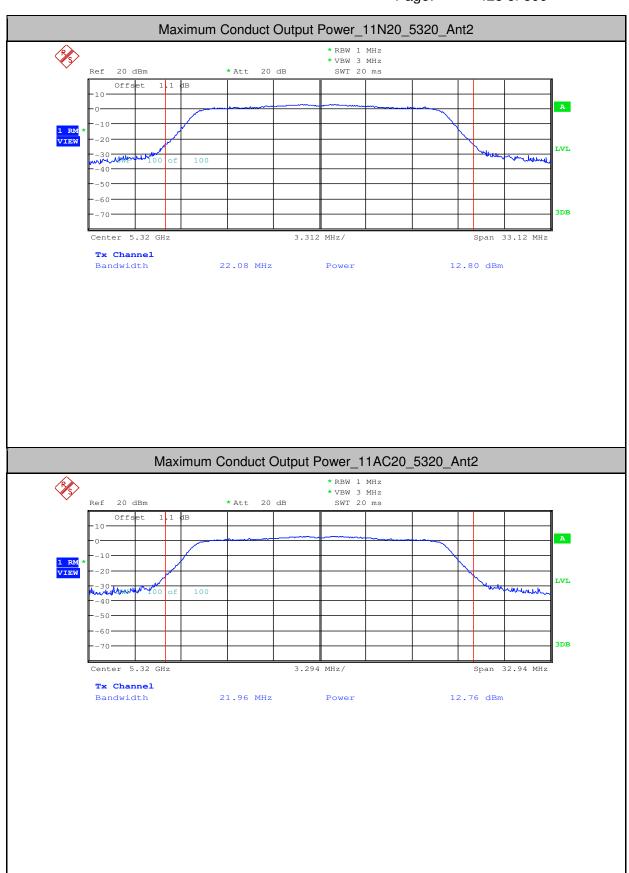
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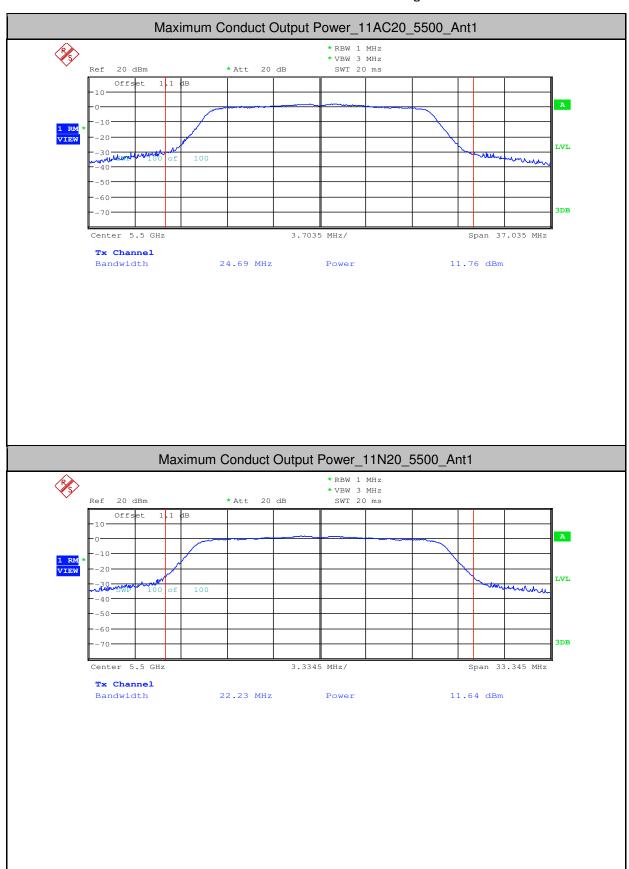
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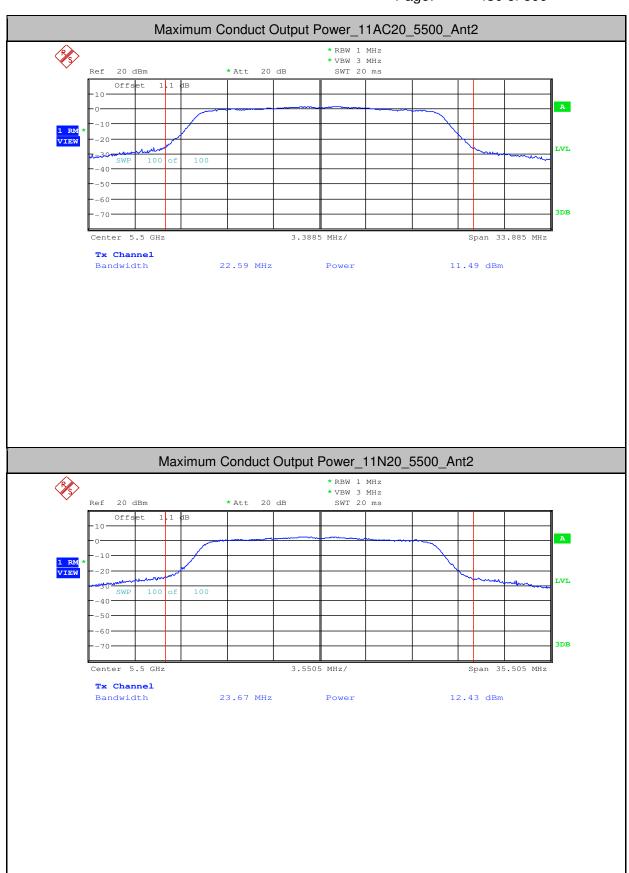
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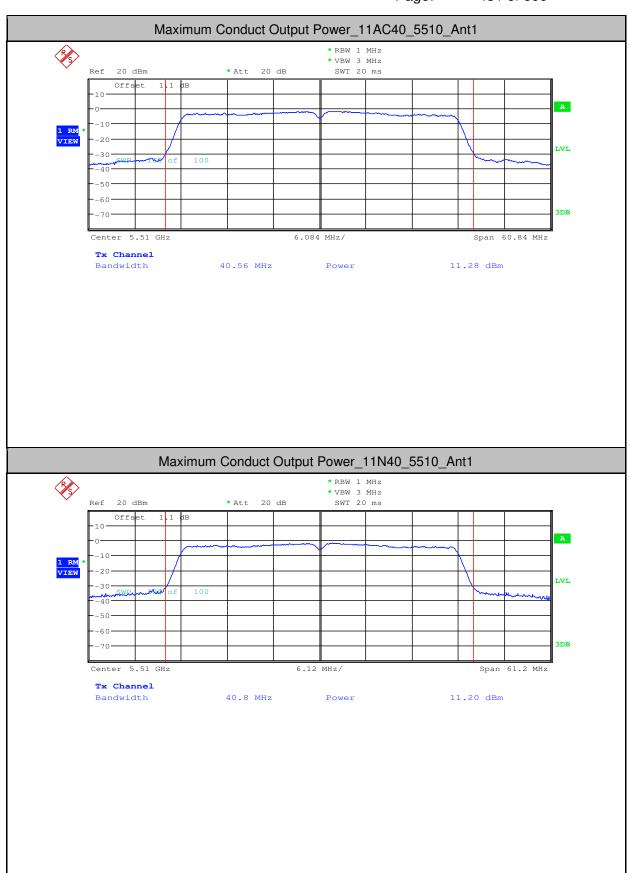
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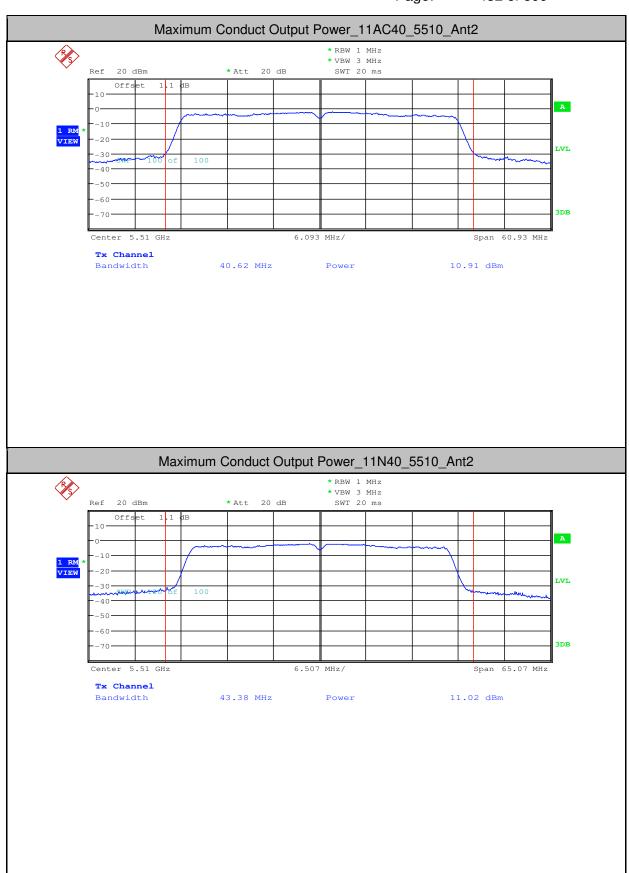
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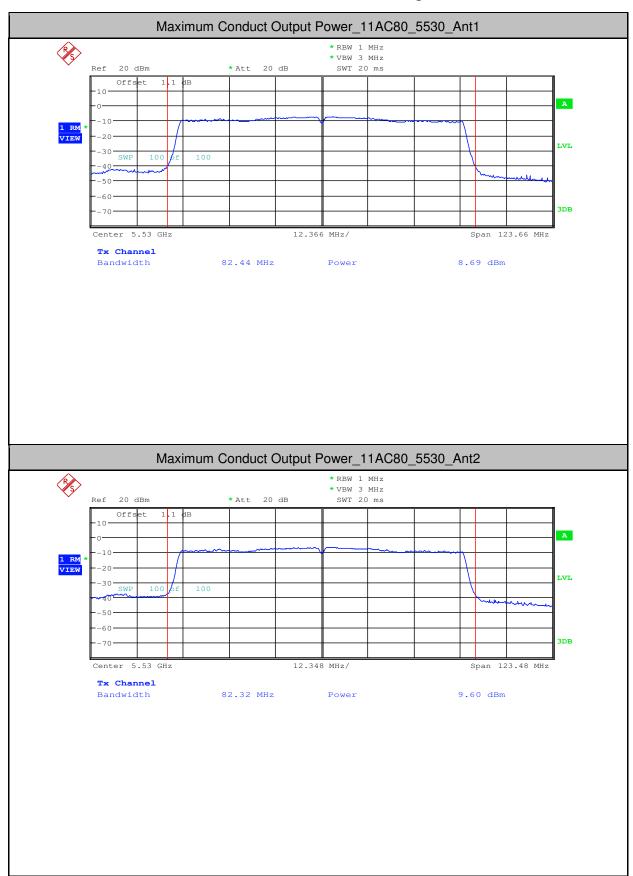
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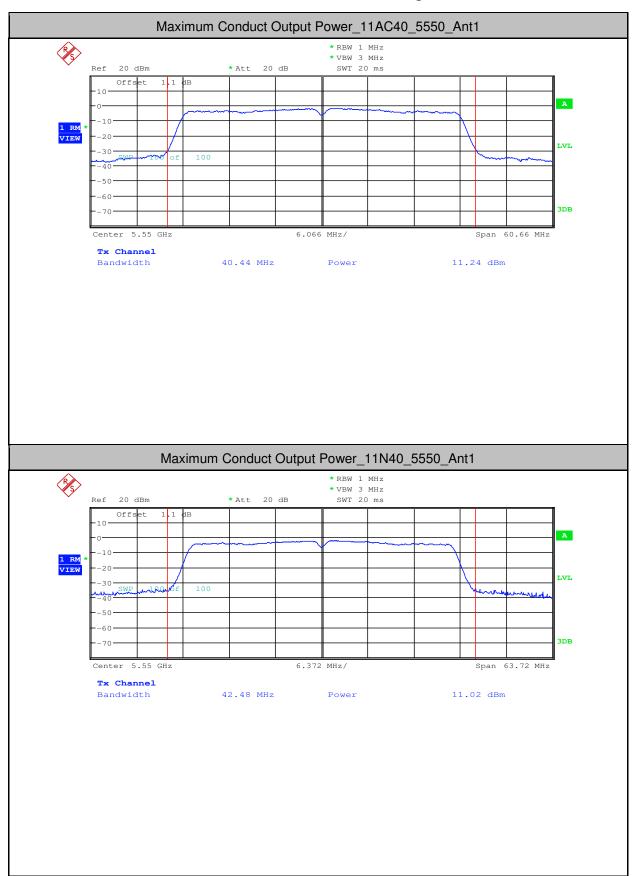
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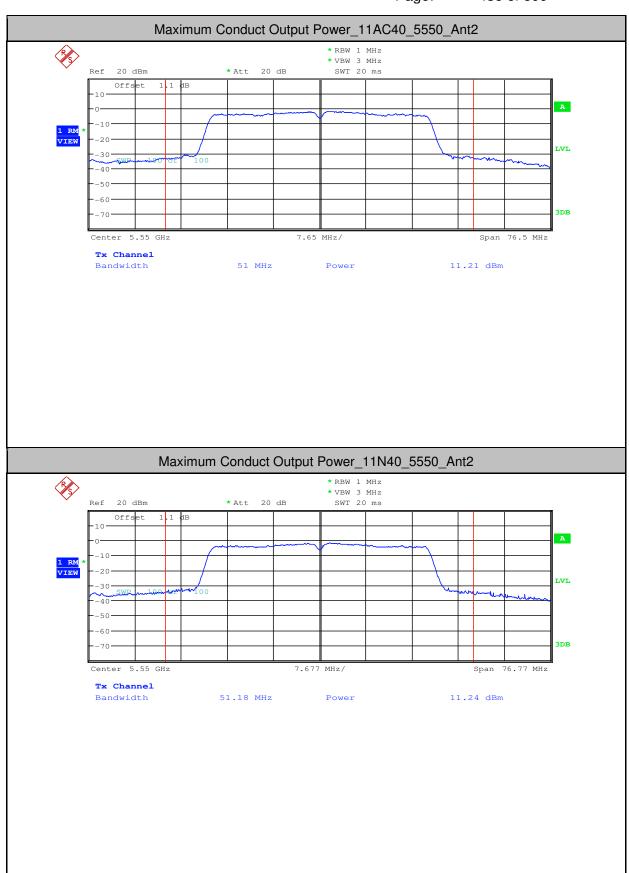
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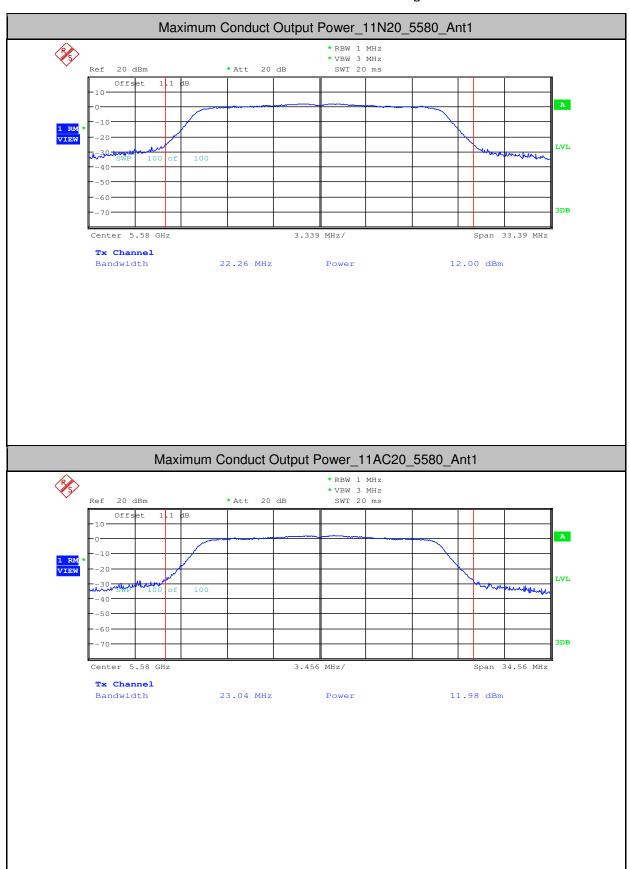
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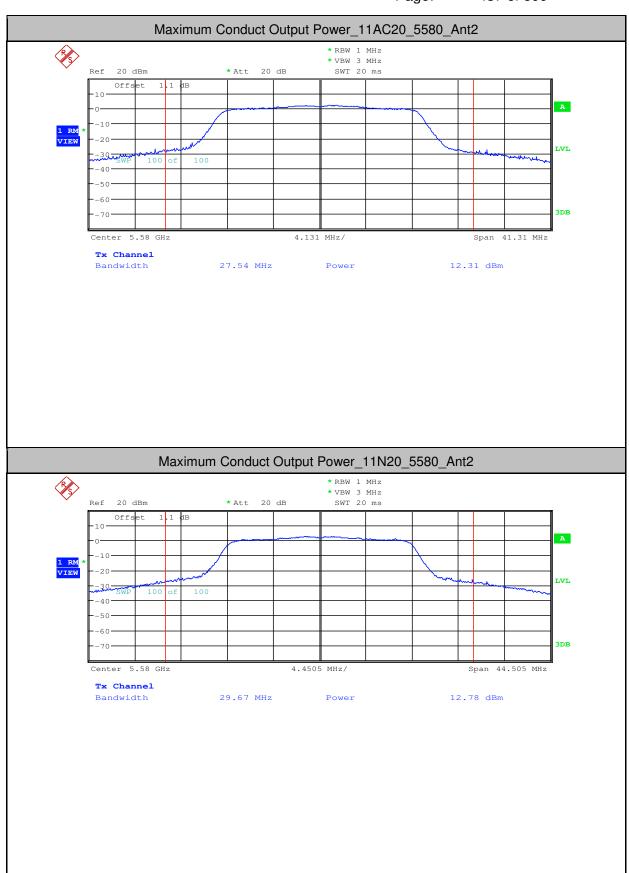
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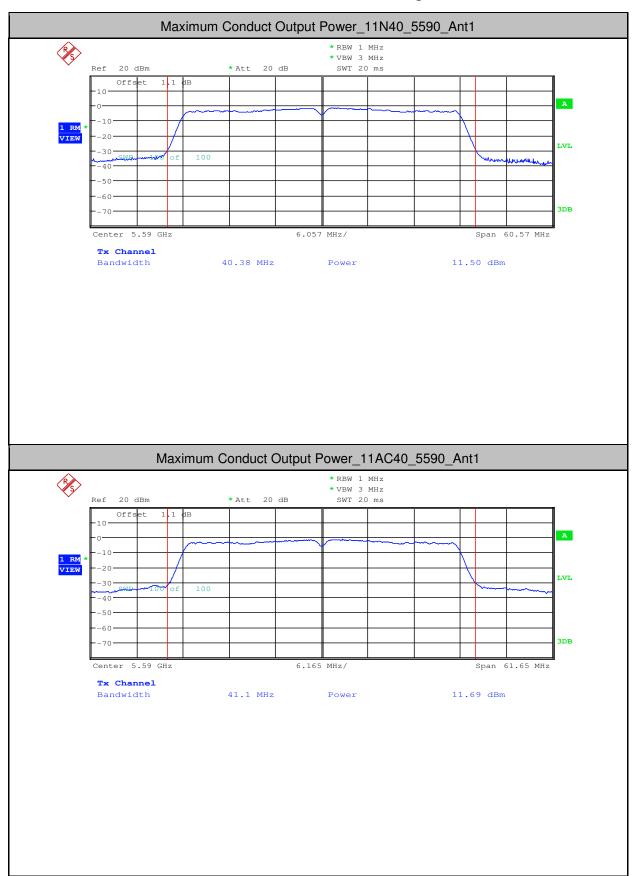
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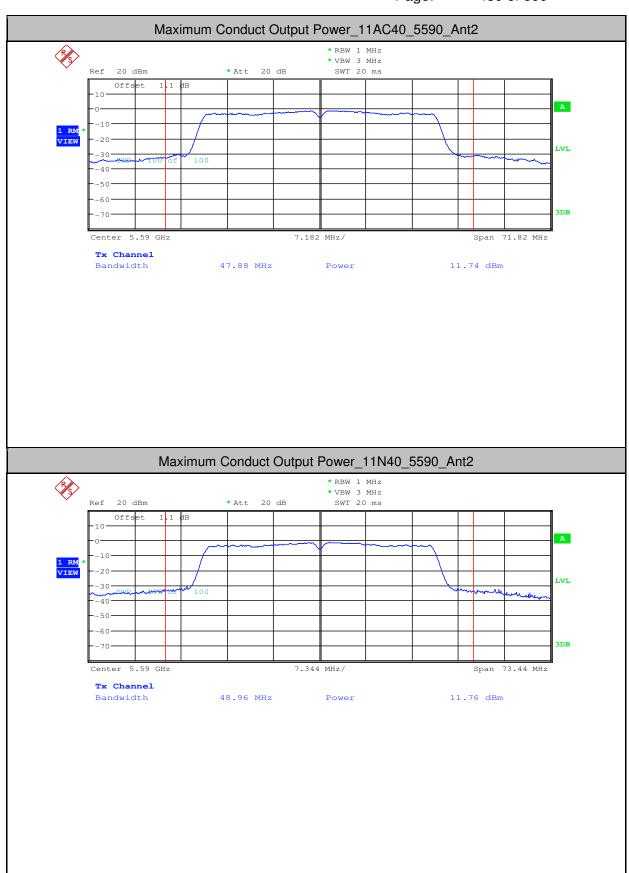
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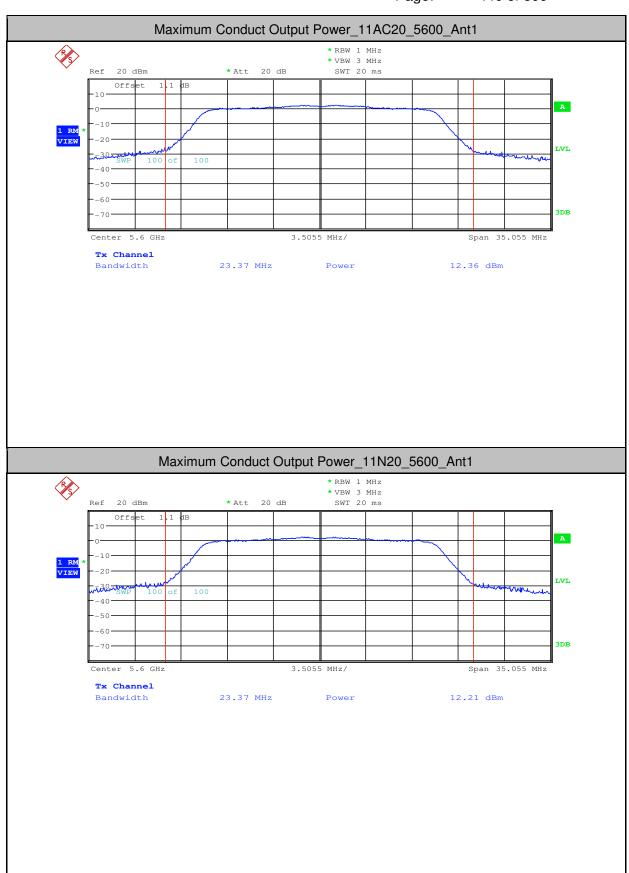
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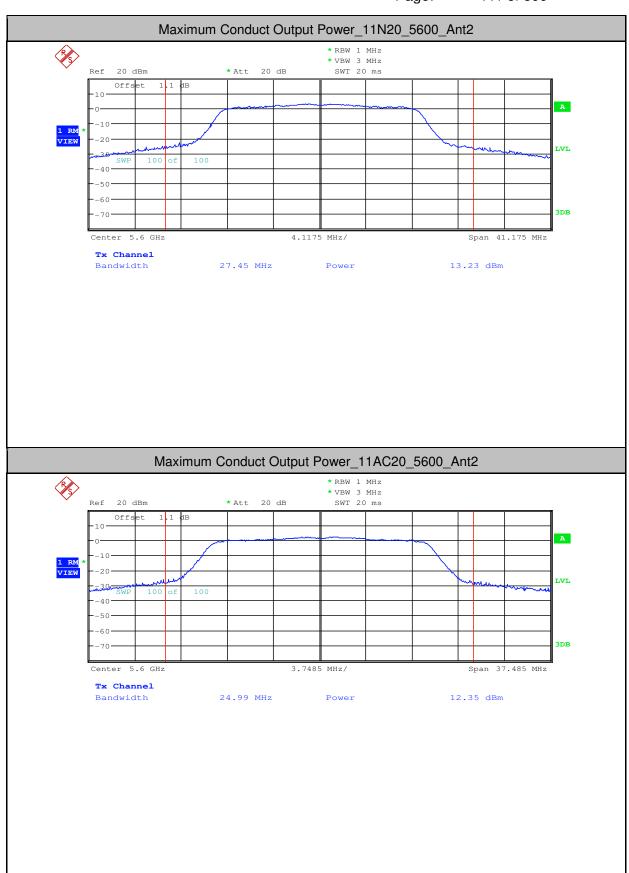
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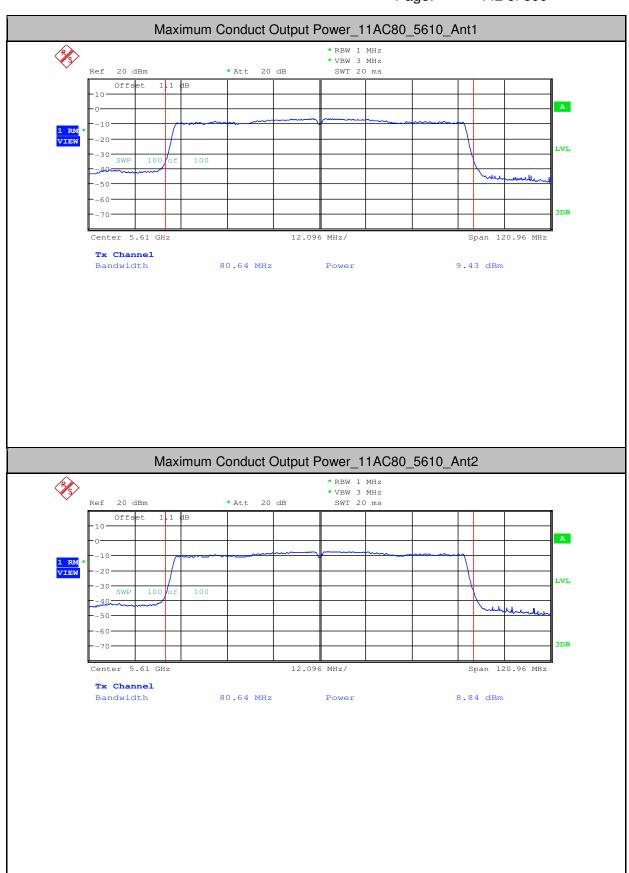
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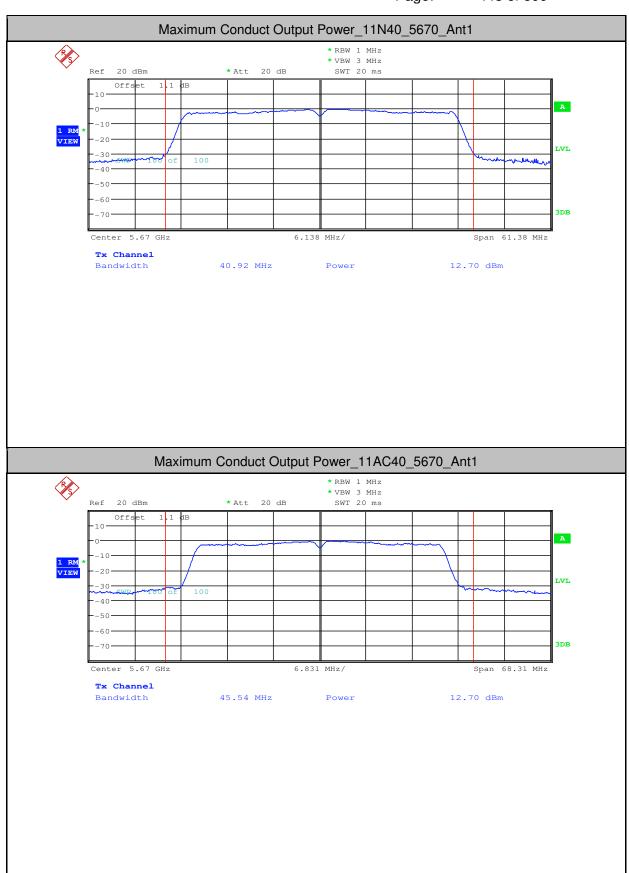
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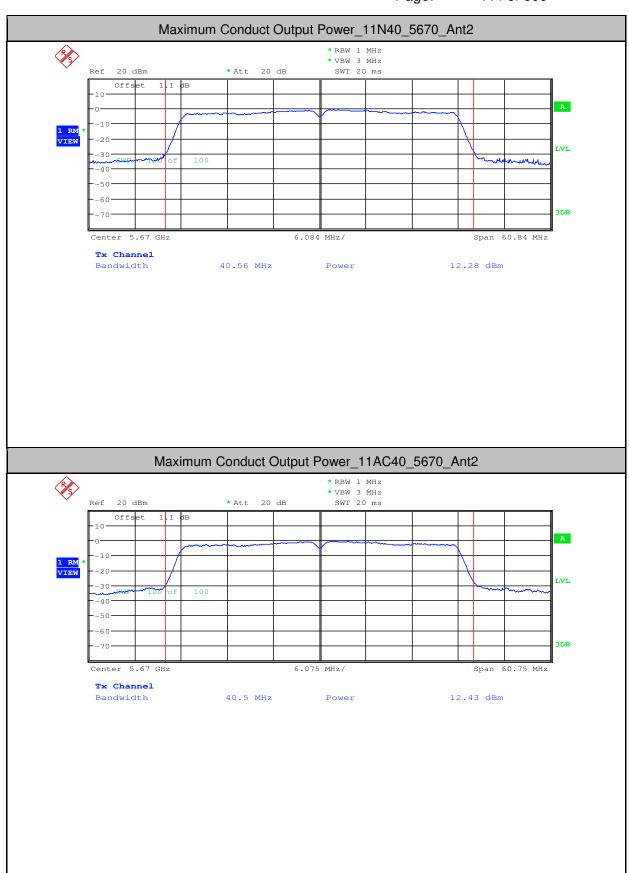
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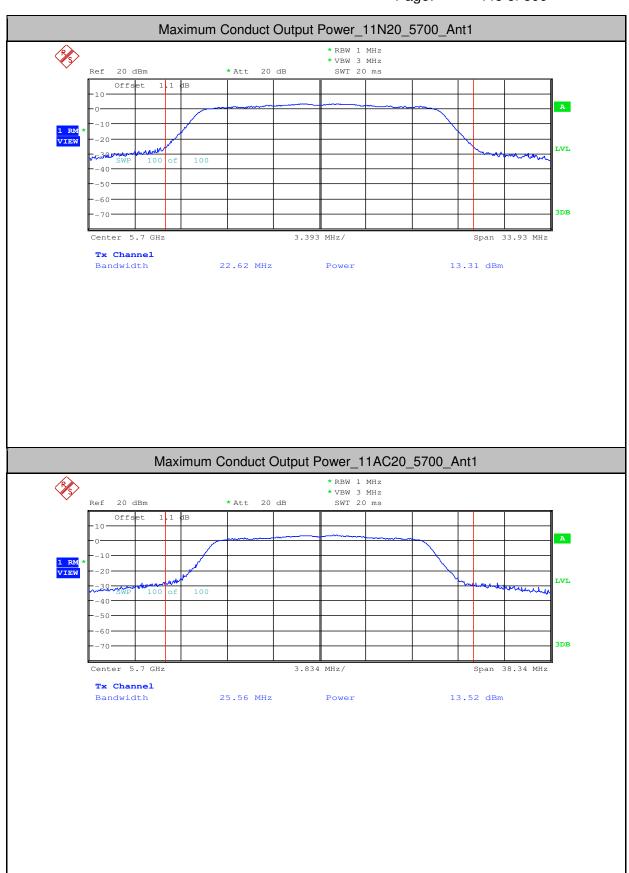
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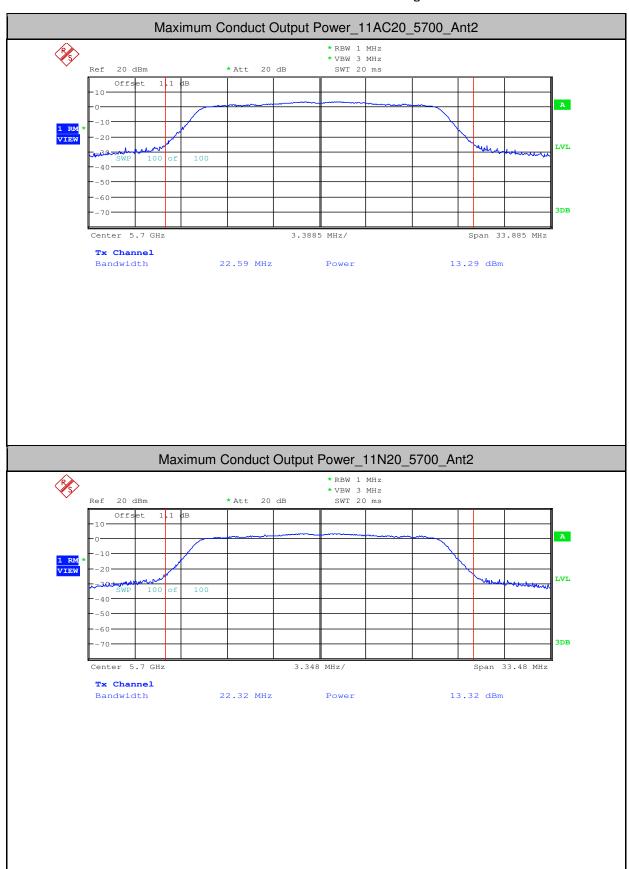
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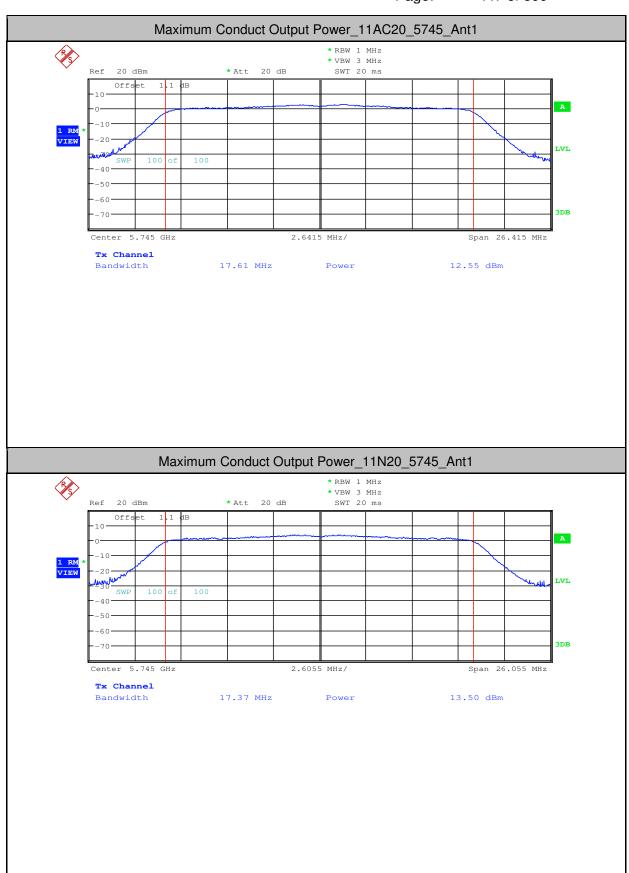
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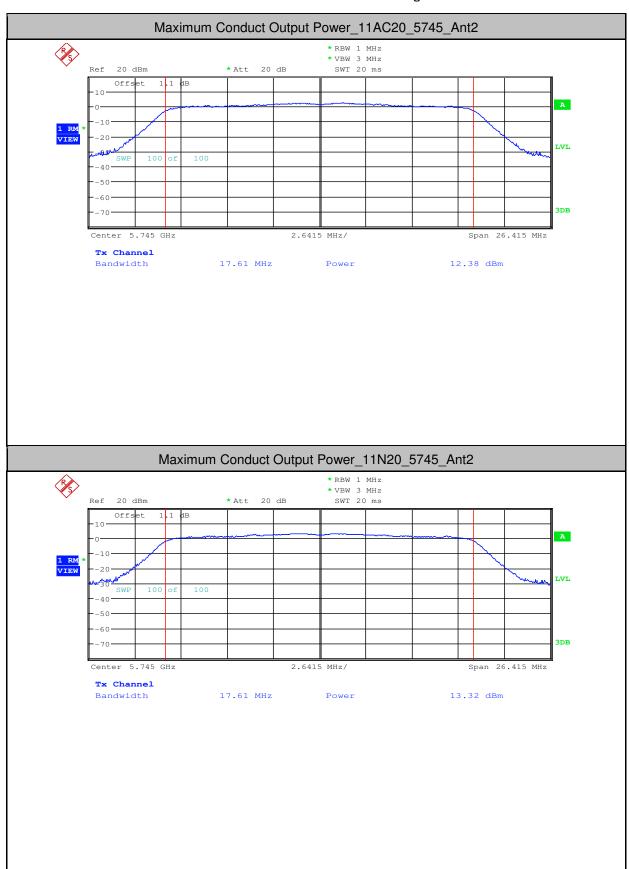
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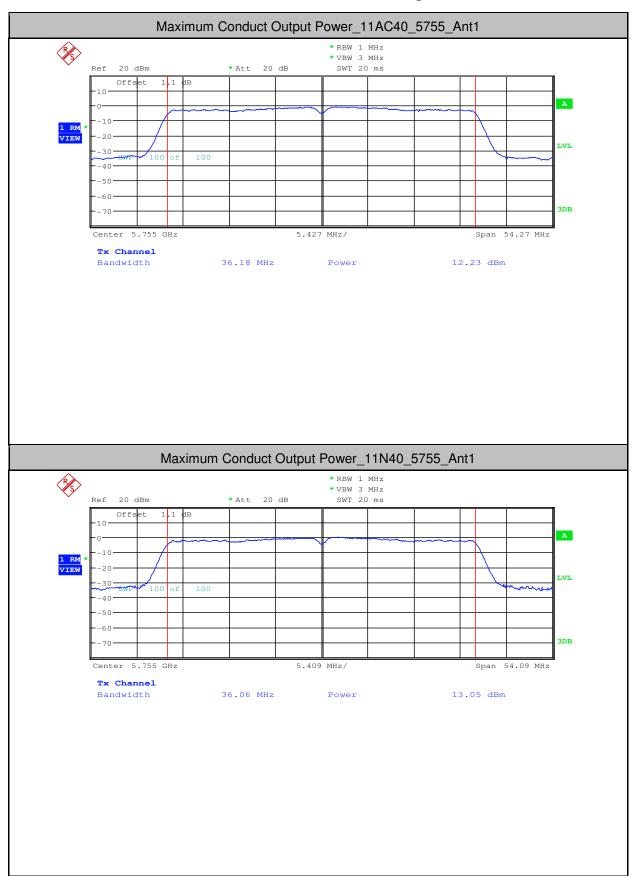
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