

Appendix D: Maximum Power Spectral Density

Test Result B1

Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm /MHz]	DC Factor [dBm]	Result [dBm]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-0.48	0.13	-0.35	≤11.00	PASS
11A	Ant2	5180	-0.32	0.26	-0.06	≤11.00	PASS
11A	Ant1	5220	-0.19	0.13	-0.06	≤11.00	PASS
11A	Ant2	5220	-0.55	0.13	-0.42	≤11.00	PASS
11A	Ant1	5240	-0.62	0.13	-0.49	≤11.00	PASS
11A	Ant2	5240	-0.59	0.26	-0.33	≤11.00	PASS
11N20MI MO	Ant1	5180	-0.69	0.13	-0.56	≤11.00	PASS
11N20MI MO	Ant2	5180	-0.82	0.13	-0.69	≤11.00	PASS
11N20MI MO	total	5180	---	---	2.39	≤11.00	PASS
11N20MI MO	Ant1	5220	-0.52	0.13	-0.39	≤11.00	PASS
11N20MI MO	Ant2	5220	-0.79	0.26	-0.53	≤11.00	PASS
11N20MI MO	total	5220	---	---	2.55	≤11.00	PASS
11N20MI MO	Ant1	5240	-0.65	0.13	-0.52	≤11.00	PASS
11N20MI MO	Ant2	5240	-0.99	0.13	-0.86	≤11.00	PASS
11N20MI MO	total	5240	---	---	2.32	≤11.00	PASS
11N40MI MO	Ant1	5190	-3.44	0.23	-3.21	≤11.00	PASS
11N40MI MO	Ant2	5190	-3.30	0.23	-3.07	≤11.00	PASS
11N40MI MO	total	5190	---	---	-0.13	≤11.00	PASS
11N40MI MO	Ant1	5230	-3.76	0.23	-3.53	≤11.00	PASS
11N40MI MO	Ant2	5230	-3.74	0.23	-3.51	≤11.00	PASS
11N40MI MO	total	5230	---	---	-0.51	≤11.00	PASS

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11AC20M IMO	Ant1	5180	-0.51	0.13	-0.38	≤11.00	PASS
11AC20M IMO	Ant2	5180	-0.53	0.13	-0.40	≤11.00	PASS
11AC20M IMO	total	5180	---	---	2.62	≤11.00	PASS
11AC20M IMO	Ant1	5220	-1.11	0.13	-0.98	≤11.00	PASS
11AC20M IMO	Ant2	5220	-1.01	0.13	-0.88	≤11.00	PASS
11AC20M IMO	total	5220	---	---	2.08	≤11.00	PASS
11AC20M IMO	Ant1	5240	-0.94	0.13	-0.81	≤11.00	PASS
11AC20M IMO	Ant2	5240	-0.93	0.13	-0.80	≤11.00	PASS
11AC20M IMO	total	5240	---	---	2.21	≤11.00	PASS
11AC40M IMO	Ant1	5190	-3.37	0.23	-3.14	≤11.00	PASS
11AC40M IMO	Ant2	5190	-3.47	0.23	-3.24	≤11.00	PASS
11AC40M IMO	total	5190	---	---	-0.18	≤11.00	PASS
11AC40M IMO	Ant1	5230	-3.70	0.23	-3.47	≤11.00	PASS
11AC40M IMO	Ant2	5230	-3.55	0.23	-3.32	≤11.00	PASS
11AC40M IMO	total	5230	---	---	-0.38	≤11.00	PASS
11AC80M IMO	Ant1	5210	-7.63	0.41	-7.22	≤11.00	PASS
11AC80M IMO	Ant2	5210	-7.53	0.38	-7.15	≤11.00	PASS
11AC80M IMO	total	5210	---	---	-4.17	≤11.00	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.
2. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=4.48<6dBi,
so limit=11dBm/MHz.
3.NOTE: MIMO= $10 * \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

Test Result B4

Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm /510KHz]	DC Factor [dBm]	Result [dBm/510KHz]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	-2.73	0.13	-2.69	-2.78	≤30.00	PASS
11A	Ant2	5745	-2.55	0.13	-2.51	-2.60	≤30.00	PASS
11A	Ant1	5785	-2.90	0.26	-2.73	-2.82	≤30.00	PASS
11A	Ant2	5785	-2.97	0.13	-2.93	-3.02	≤30.00	PASS
11A	Ant1	5825	-2.83	0.13	-2.79	-2.88	≤30.00	PASS
11A	Ant2	5825	-3.12	0.26	-2.95	-3.04	≤30.00	PASS
11N20MI MO	Ant1	5745	-3.01	0.13	-2.97	-3.06	≤30.00	PASS
11N20MI MO	Ant2	5745	-2.99	0.26	-2.82	-2.91	≤30.00	PASS
11N20MI MO	total	5745	---	---	3.01	2.92	≤30.00	PASS
11N20MI MO	Ant1	5785	-3.29	0.13	-3.25	-3.34	≤30.00	PASS
11N20MI MO	Ant2	5785	-3.37	0.13	-3.33	-3.42	≤30.00	PASS
11N20MI MO	total	5785	---	---	3.01	2.92	≤30.00	PASS
11N20MI MO	Ant1	5825	-3.45	0.26	-3.28	-3.37	≤30.00	PASS
11N20MI MO	Ant2	5825	-3.55	0.13	-3.51	-3.60	≤30.00	PASS
11N20MI MO	total	5825	---	---	3.01	2.92	≤30.00	PASS
11N40MI MO	Ant1	5755	-6.05	0.48	-5.66	-5.75	≤30.00	PASS
11N40MI MO	Ant2	5755	-5.92	0.23	-5.78	-5.87	≤30.00	PASS
11N40MI MO	total	5755	---	---	3.01	2.92	≤30.00	PASS
11N40MI MO	Ant1	5795	-6.13	0.23	-5.99	-6.08	≤30.00	PASS
11N40MI MO	Ant2	5795	-5.93	0.23	-5.79	-5.88	≤30.00	PASS
11N40MI MO	total	5795	---	---	3.01	2.92	≤30.00	PASS
11AC20M IMO	Ant1	5745	-2.96	0.26	-2.79	-2.88	≤30.00	PASS

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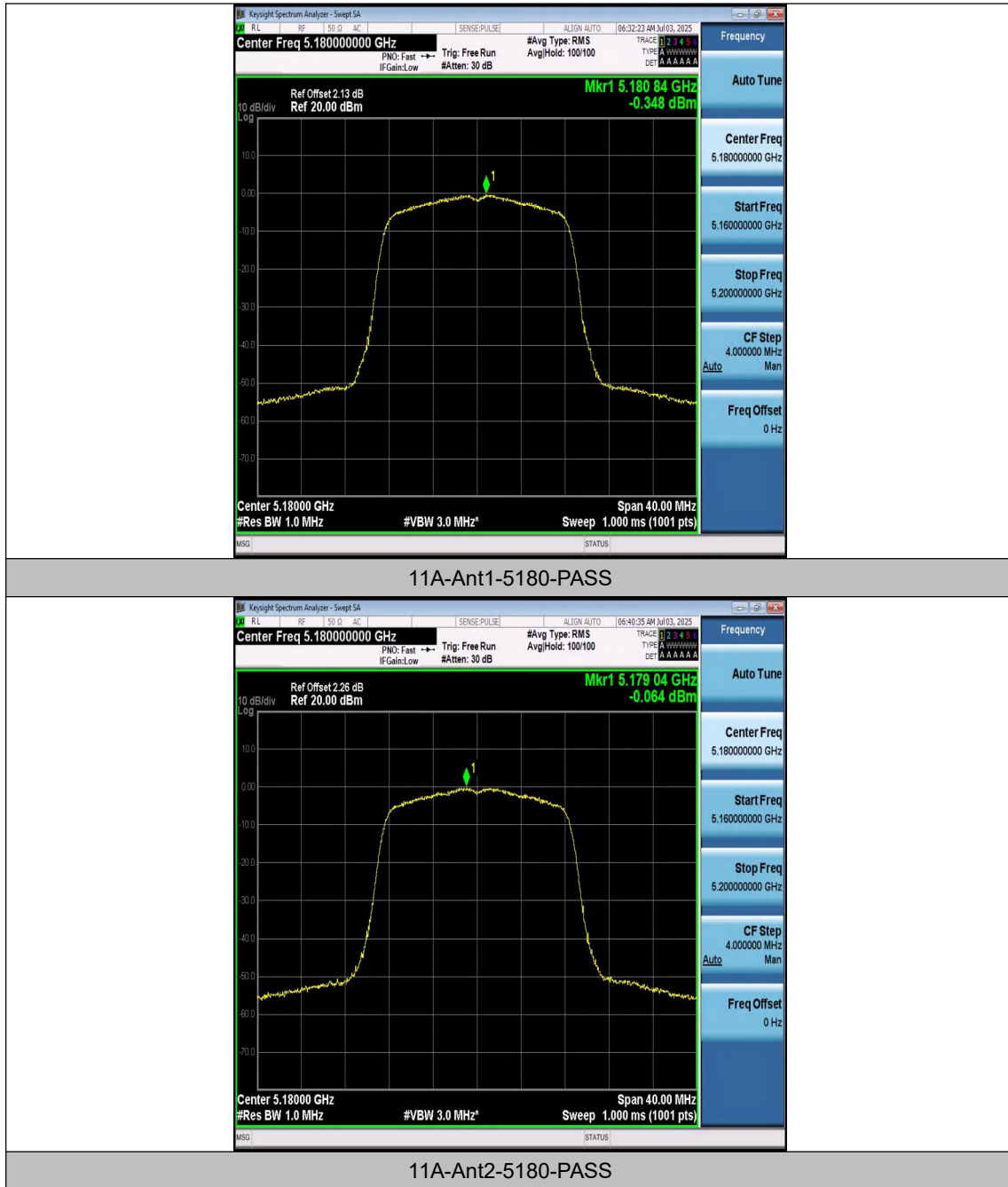
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11AC20M IMO	Ant2	5745	-2.85	0.13	-2.81	-2.90	≤30.00	PASS
11AC20M IMO	total	5745	---	---	3.01	2.92	≤30.00	PASS
11AC20M IMO	Ant1	5785	-3.21	0.13	-3.17	-3.26	≤30.00	PASS
11AC20M IMO	Ant2	5785	-3.12	0.26	-2.95	-3.04	≤30.00	PASS
11AC20M IMO	total	5785	---	---	3.01	2.92	≤30.00	PASS
11AC20M IMO	Ant1	5825	-3.49	0.13	-3.45	-3.54	≤30.00	PASS
11AC20M IMO	Ant2	5825	-3.40	0.13	-3.36	-3.45	≤30.00	PASS
11AC20M IMO	total	5825	---	---	3.01	2.92	≤30.00	PASS
11AC40M IMO	Ant1	5755	-5.70	0.23	-5.56	-5.65	≤30.00	PASS
11AC40M IMO	Ant2	5755	-5.72	0.23	-5.58	-5.67	≤30.00	PASS
11AC40M IMO	total	5755	---	---	3.01	2.92	≤30.00	PASS
11AC40M IMO	Ant1	5795	-5.82	0.46	-5.45	-5.54	≤30.00	PASS
11AC40M IMO	Ant2	5795	-6.01	0.46	-5.64	-5.73	≤30.00	PASS
11AC40M IMO	total	5795	---	---	3.01	2.92	≤30.00	PASS
11AC80M IMO	Ant1	5775	-10.09	0.41	-9.77	-9.86	≤30.00	PASS
11AC80M IMO	Ant2	5775	-9.90	0.79	-9.20	-9.29	≤30.00	PASS
11AC80M IMO	total	5775	---	---	3.01	2.92	≤30.00	PASS

Note: 1.The Duty Cycle Factor and cable loss and RBW Factor are compensated in the graph.
2. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=5.31<6dBi,
so limit=30dBm/500KHz.
3.NOTE: MIMO= $10 \cdot \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

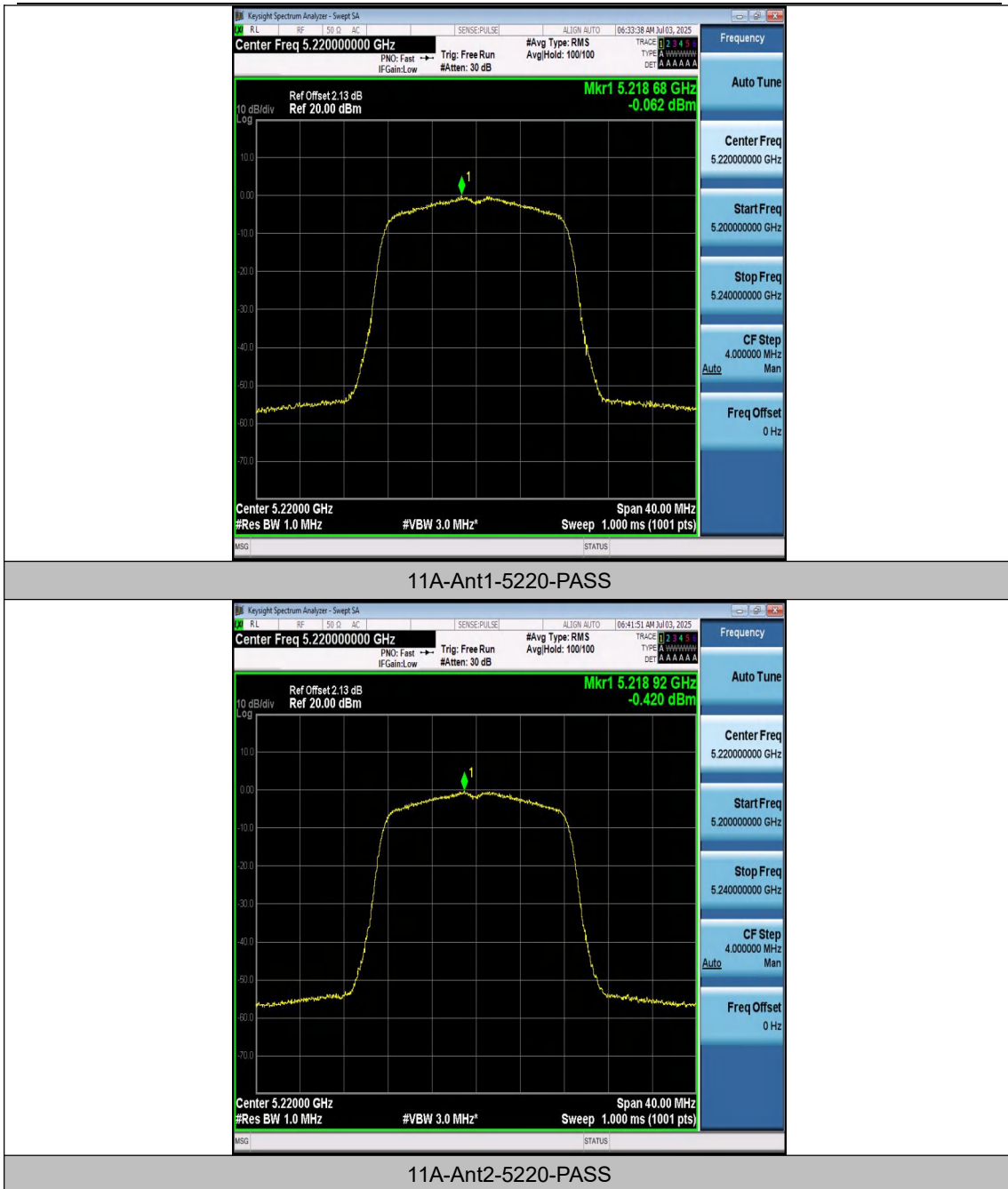
Test Graphs B1



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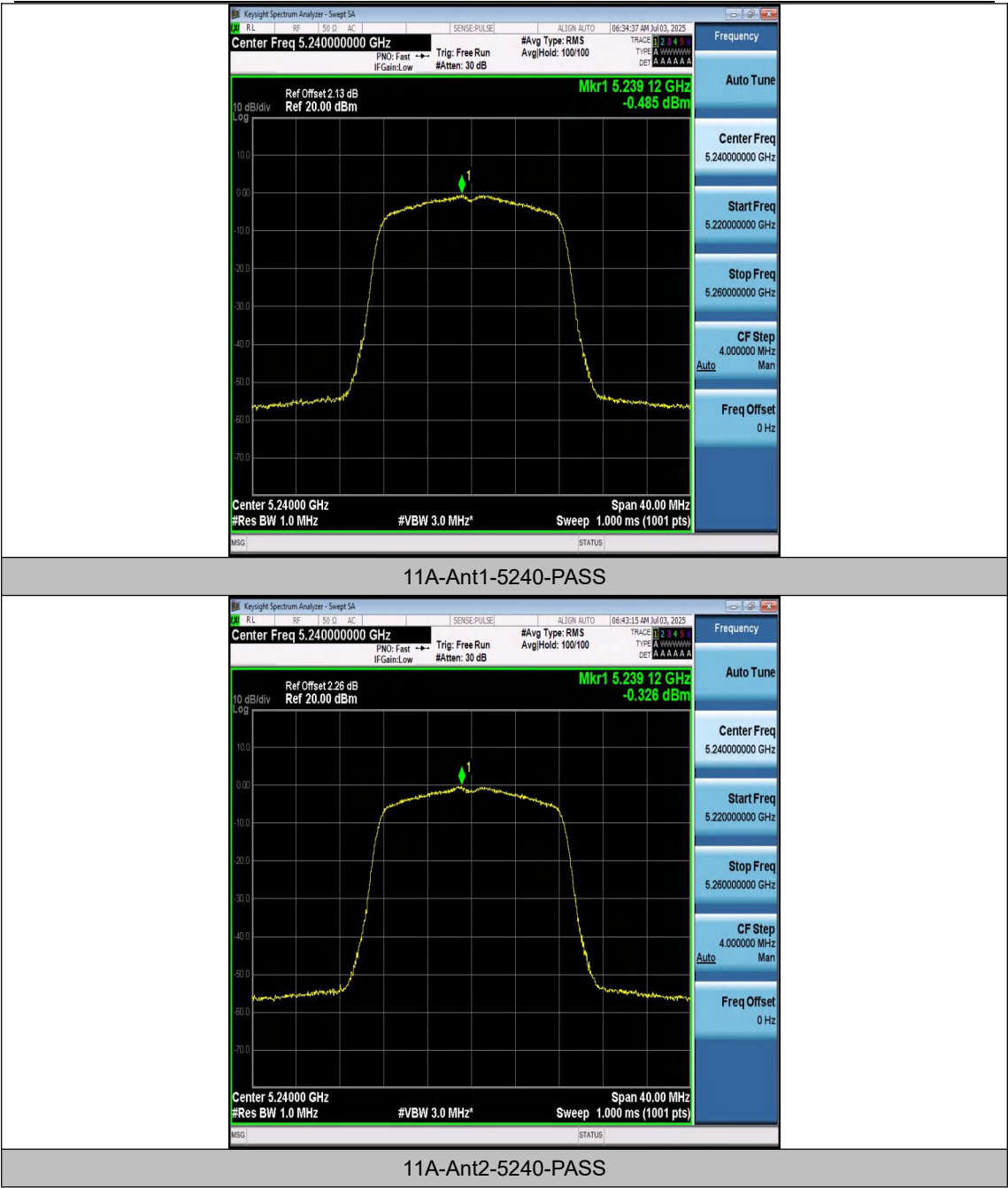
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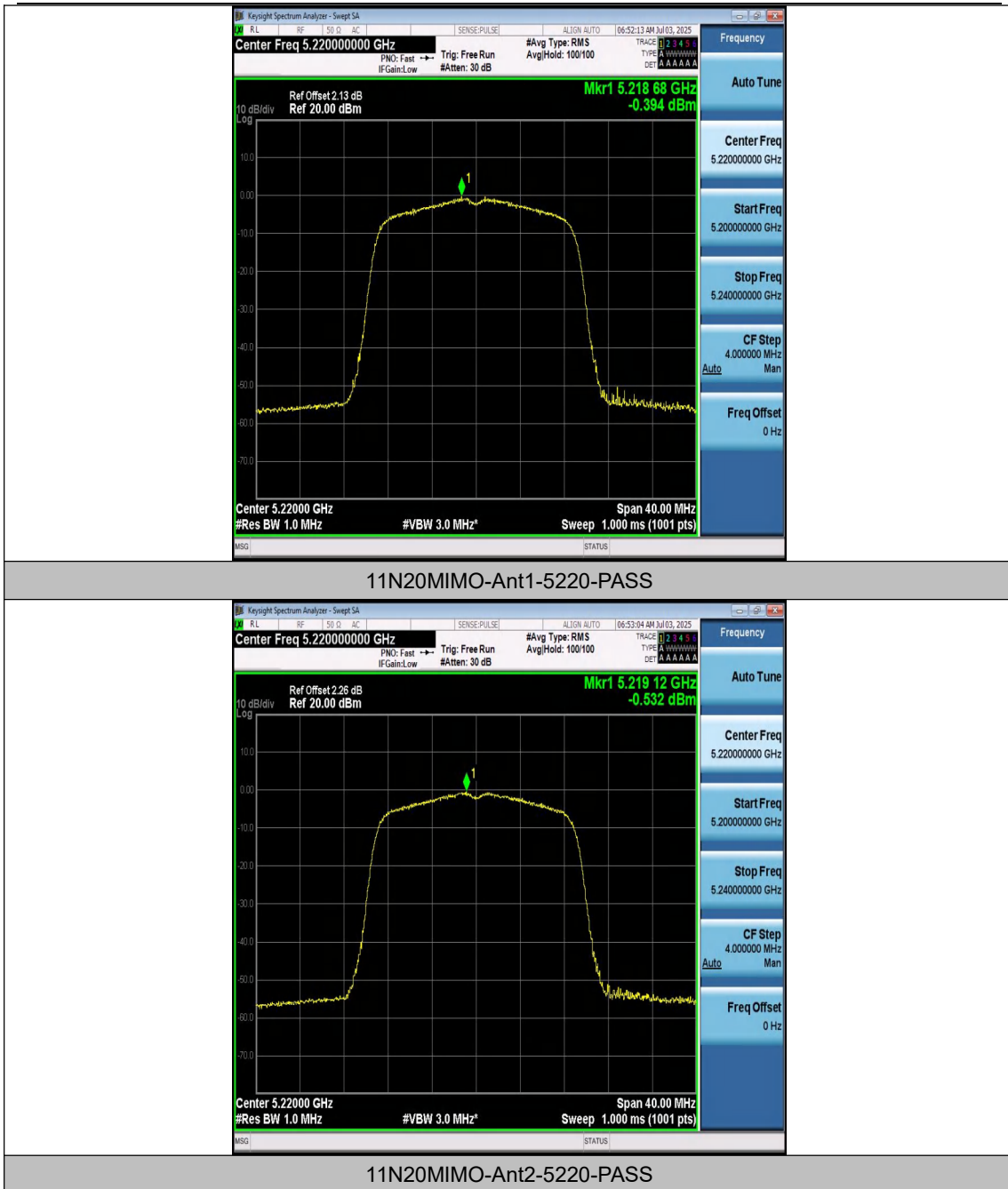
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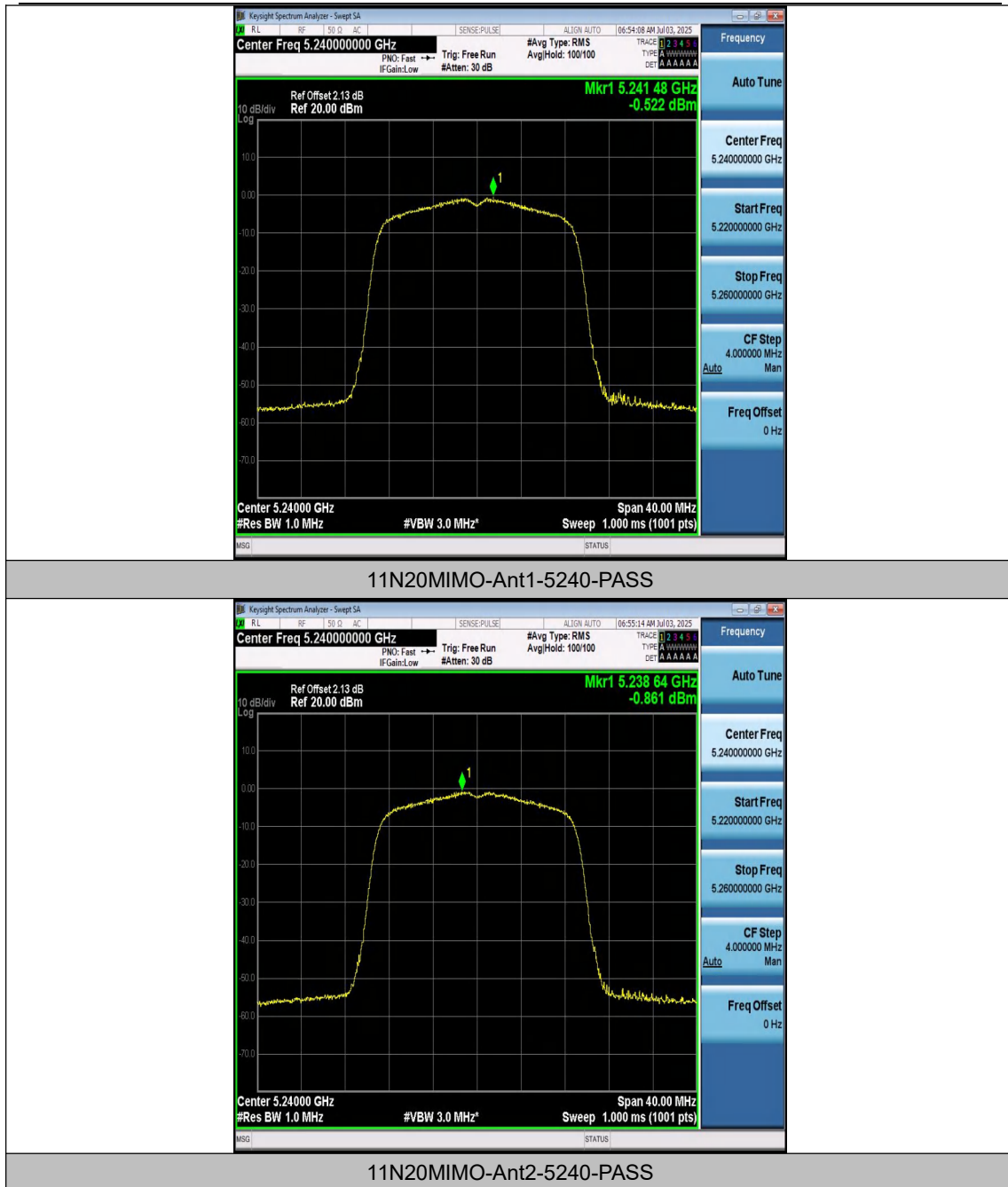
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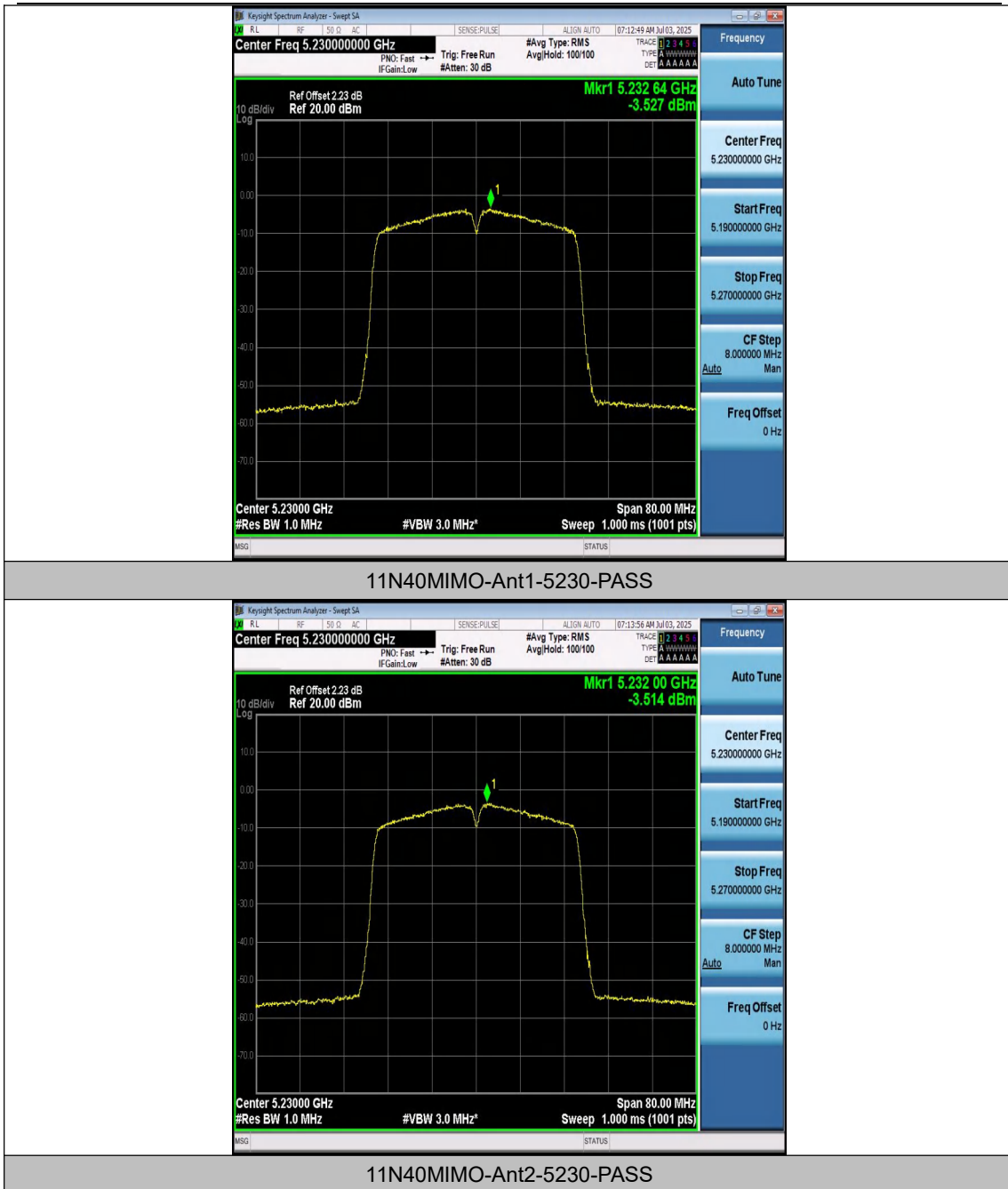
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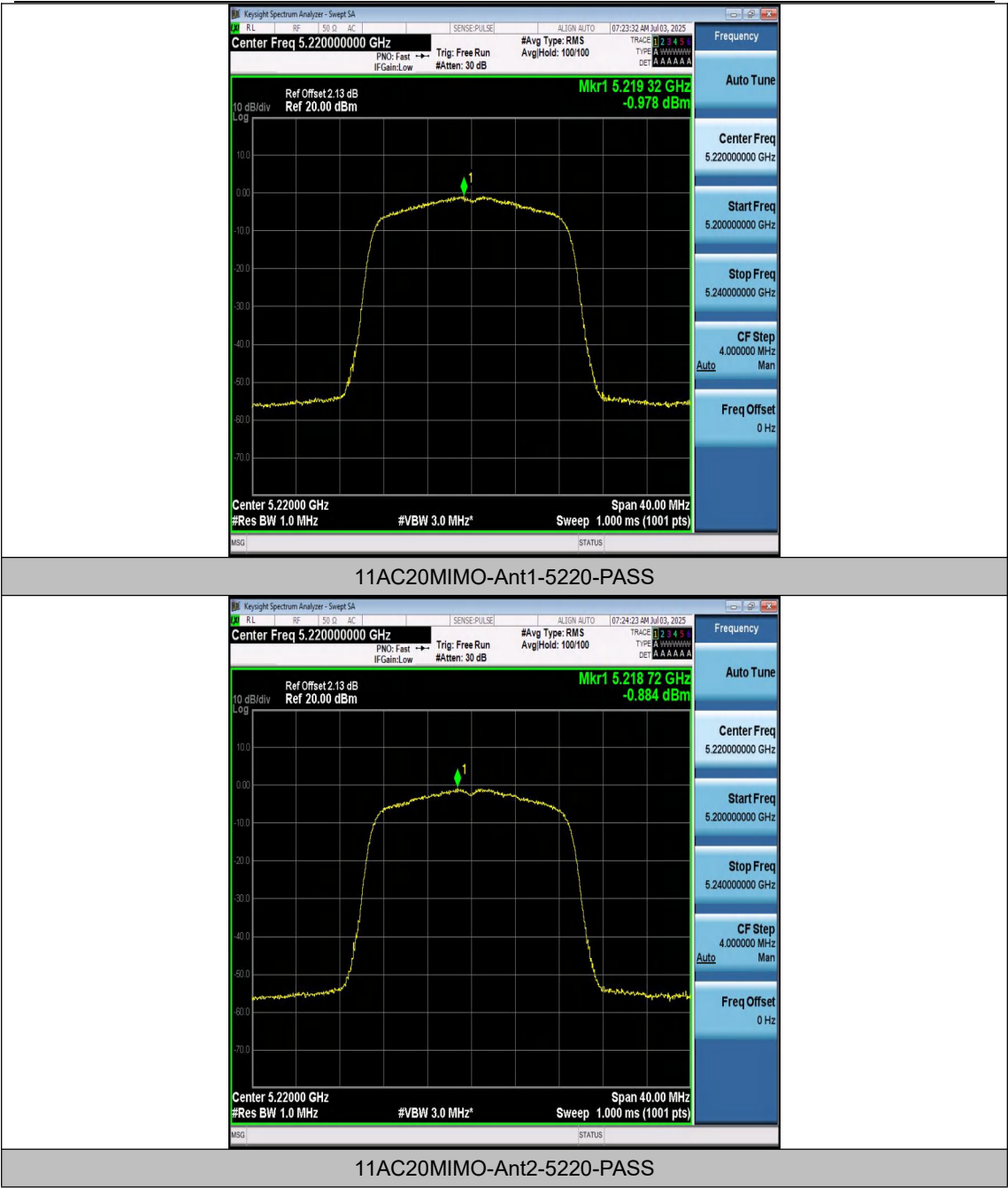
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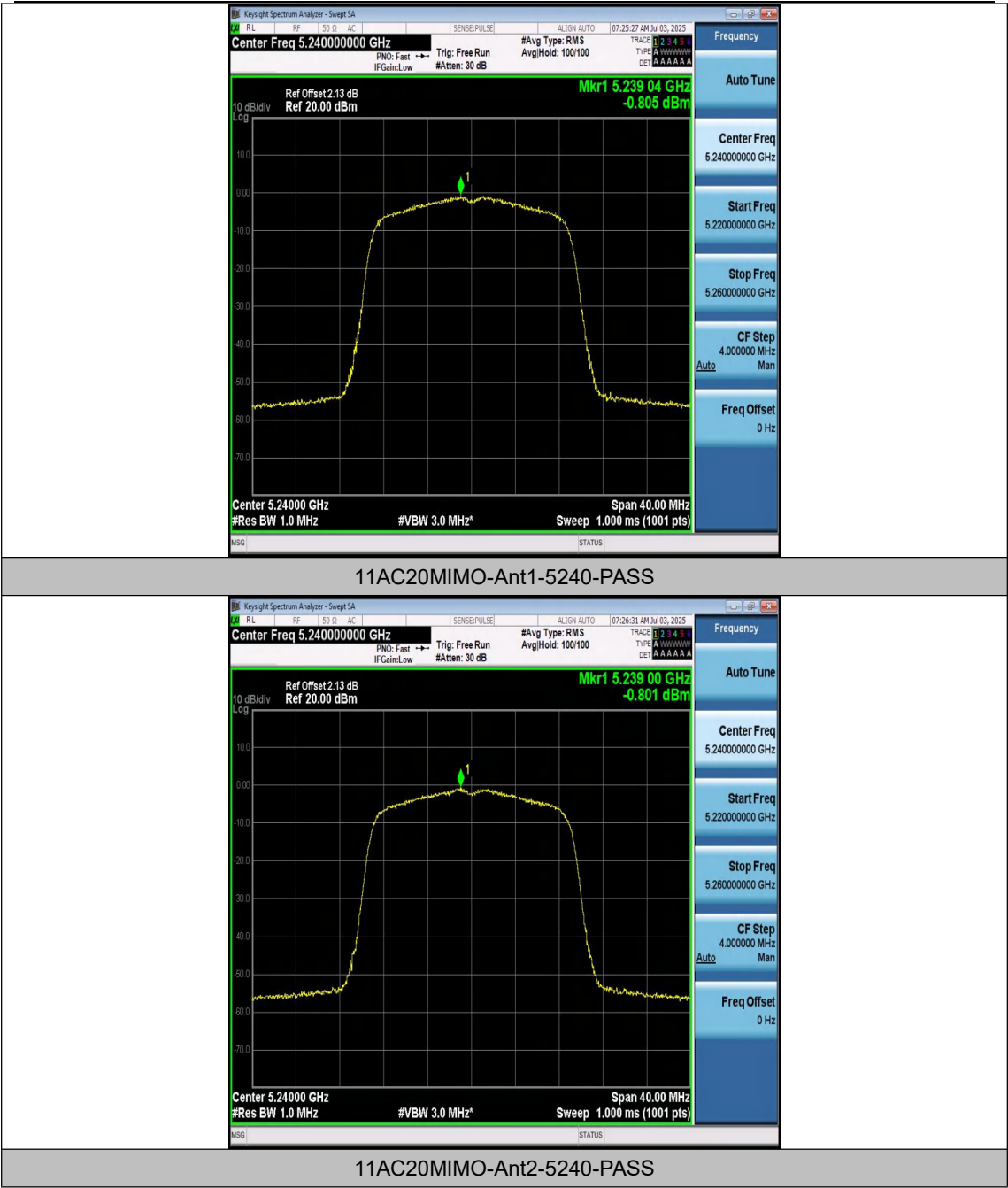
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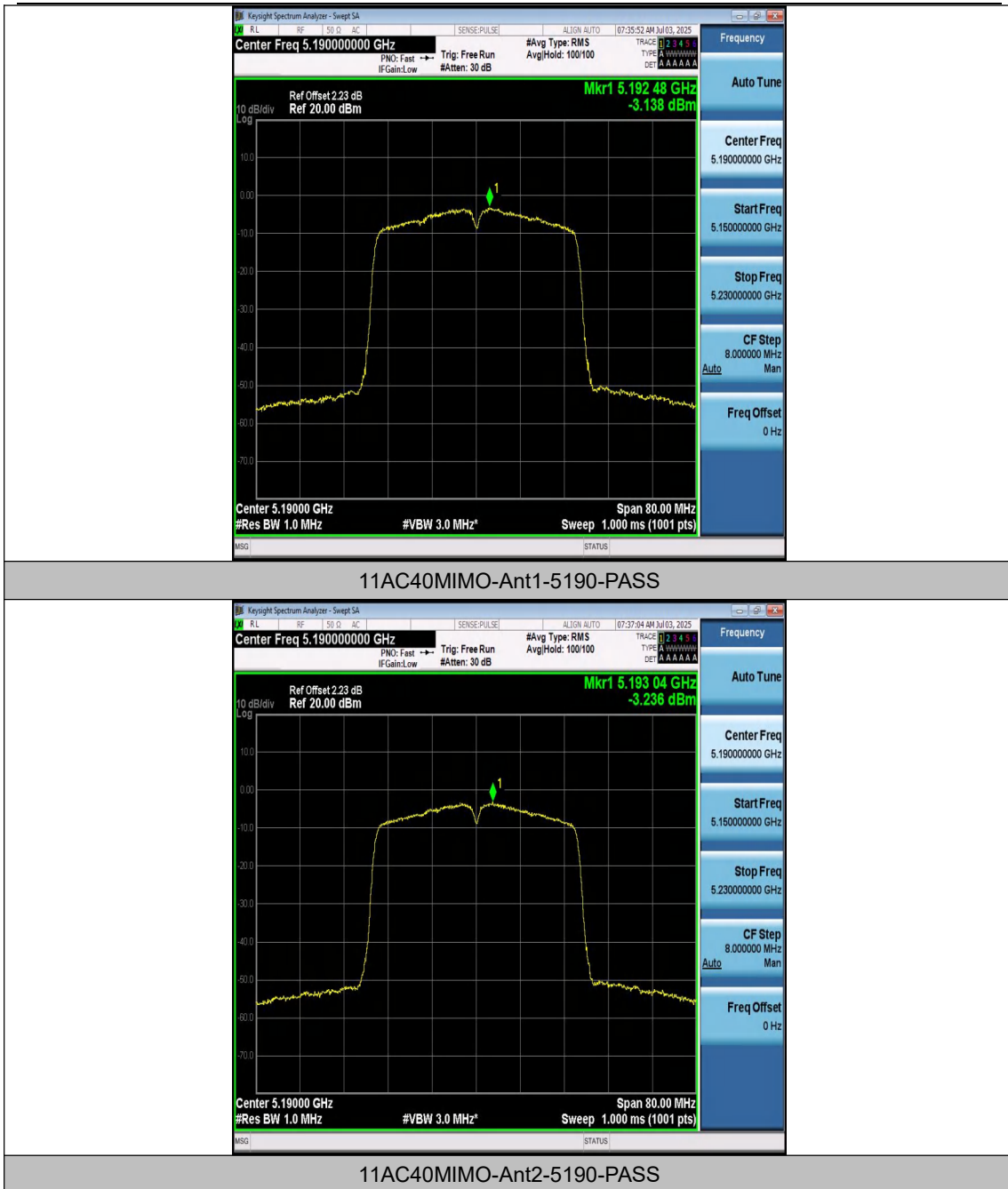
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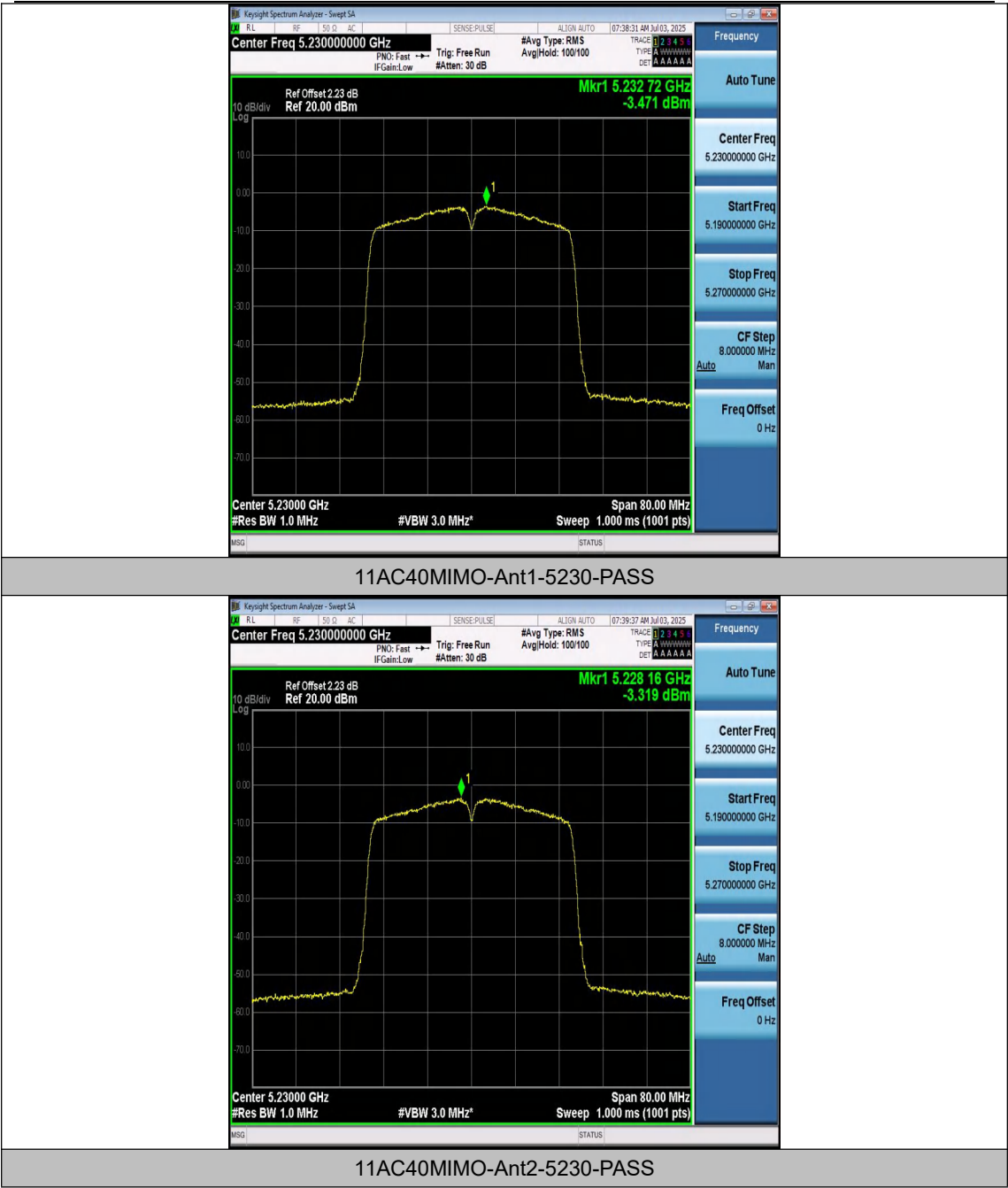
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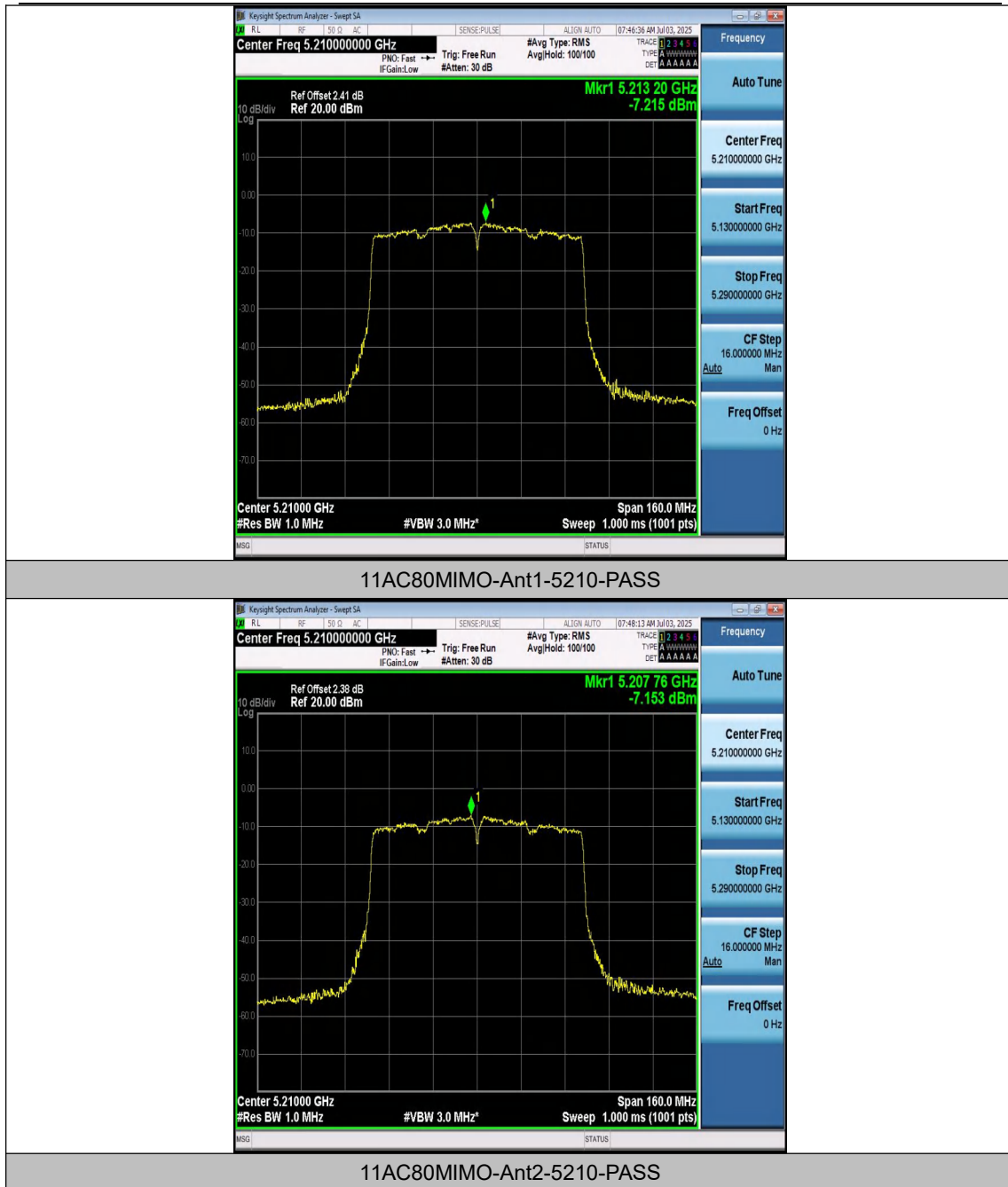


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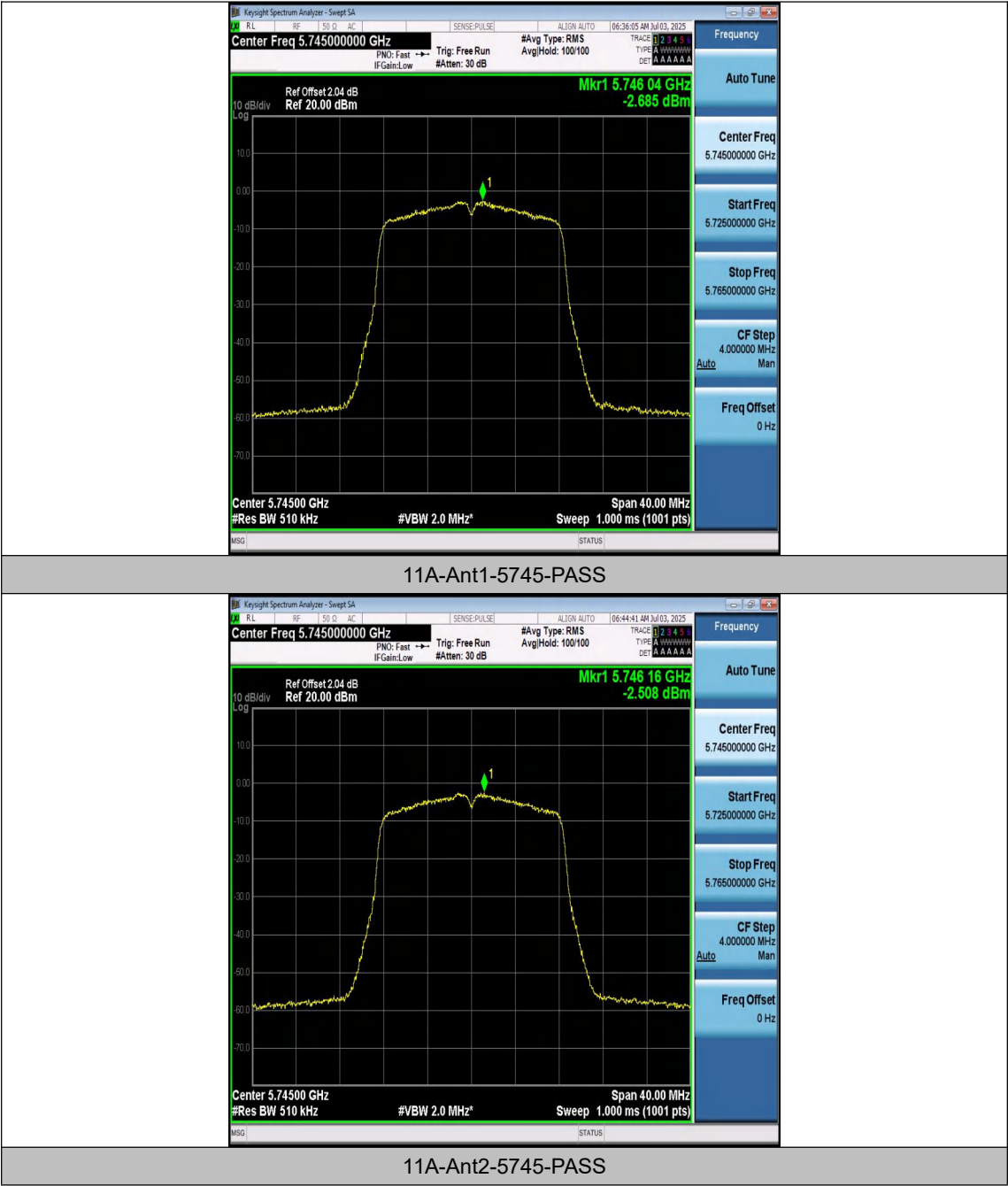


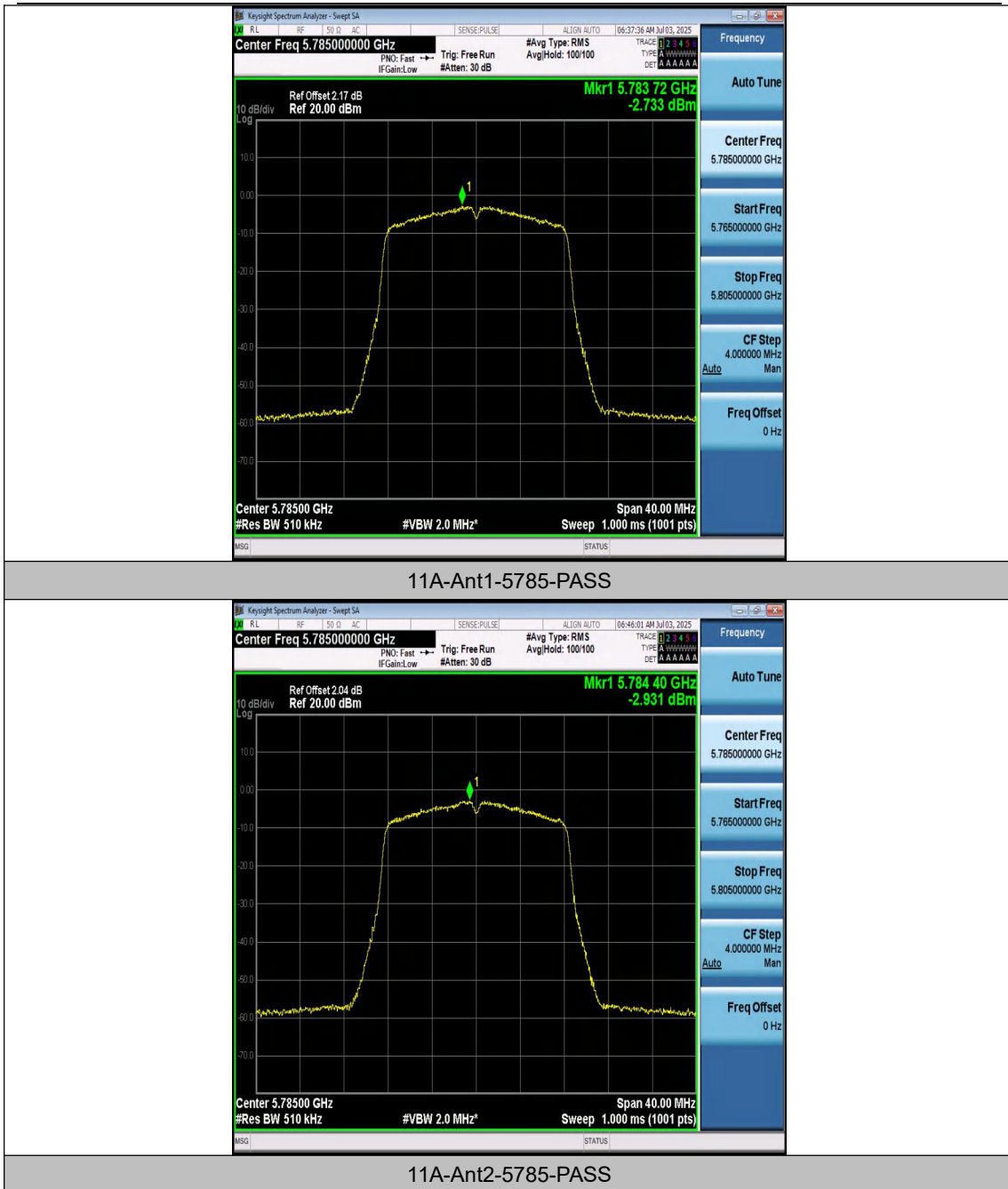
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Test GraphsB4

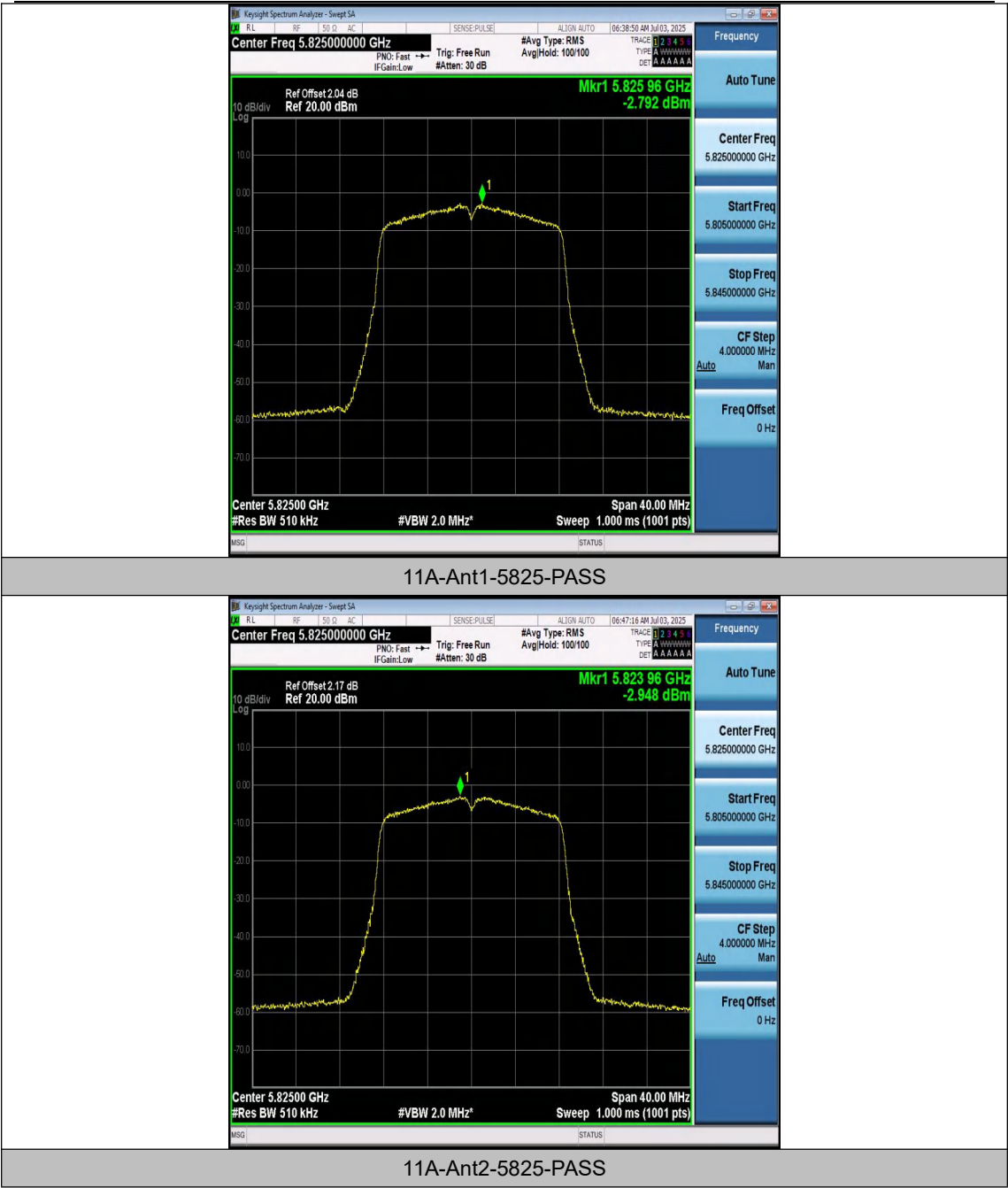




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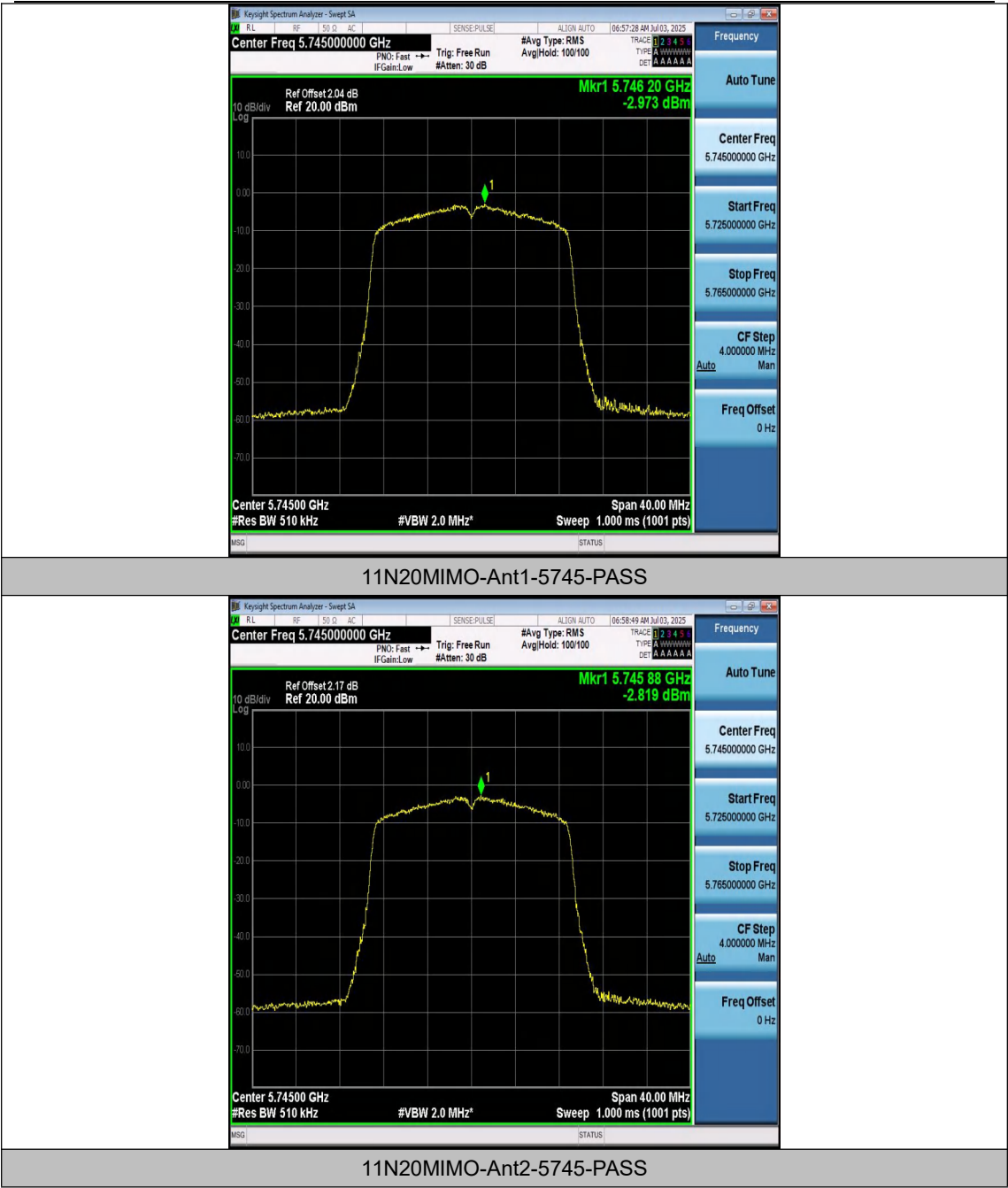
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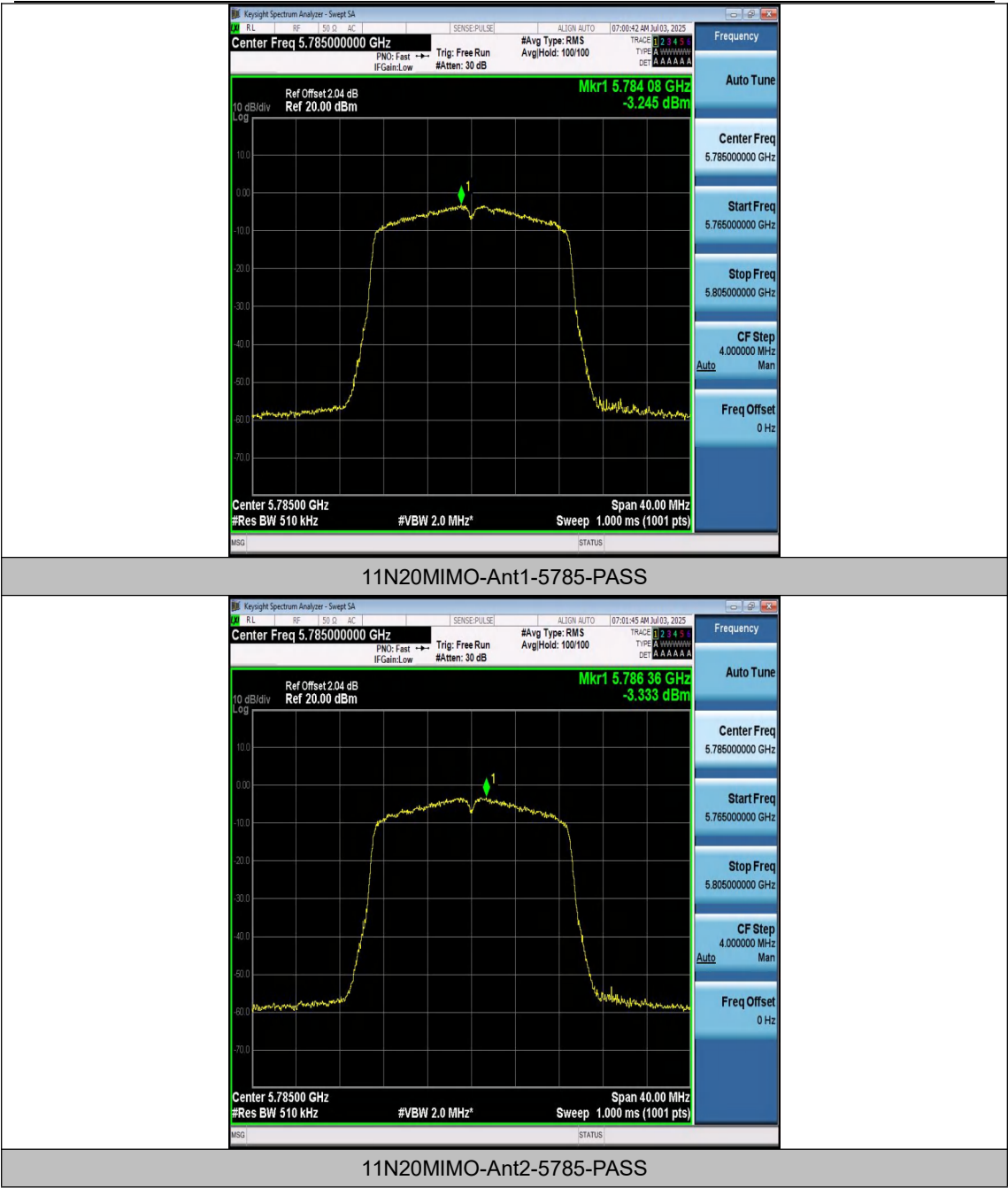
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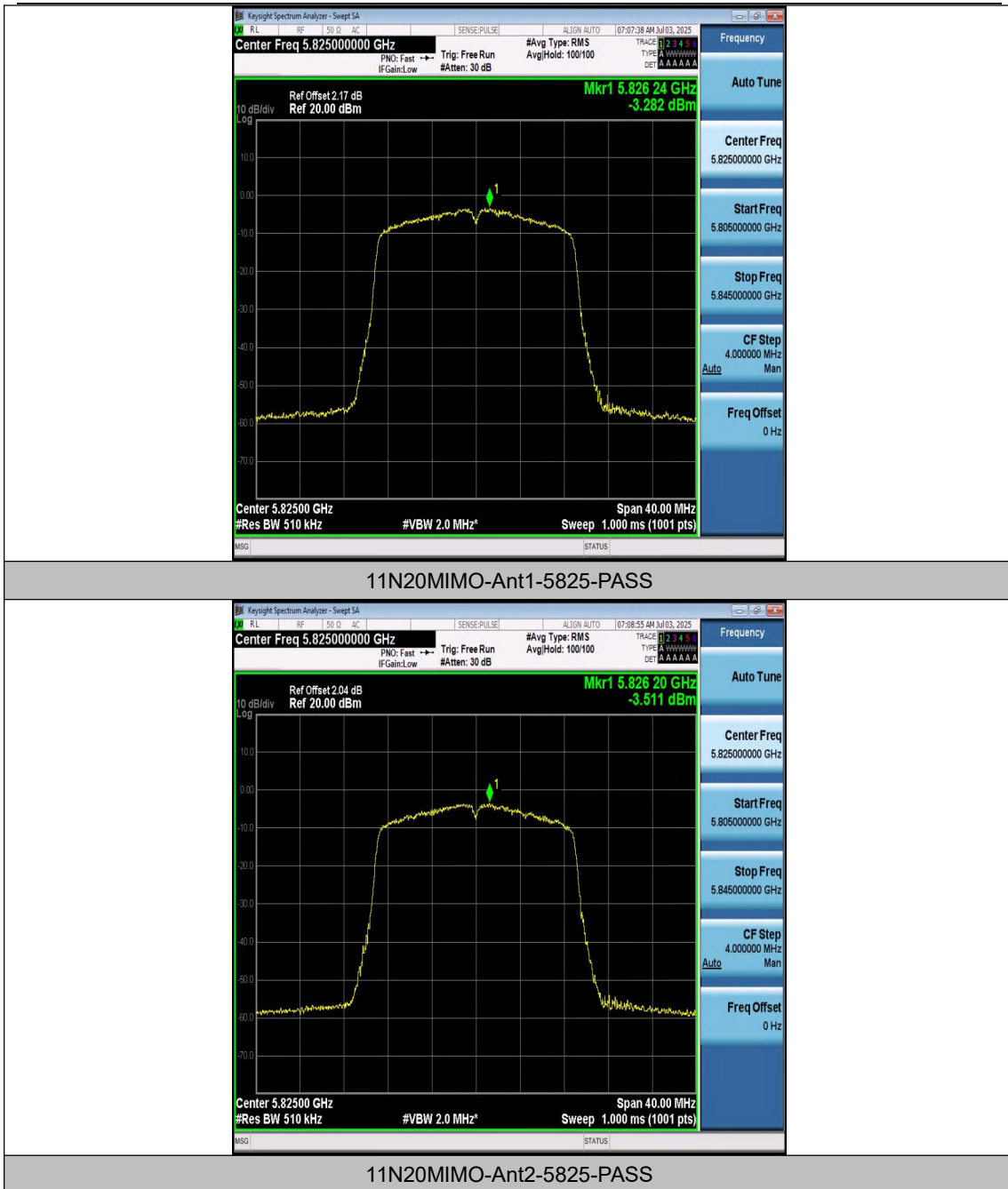
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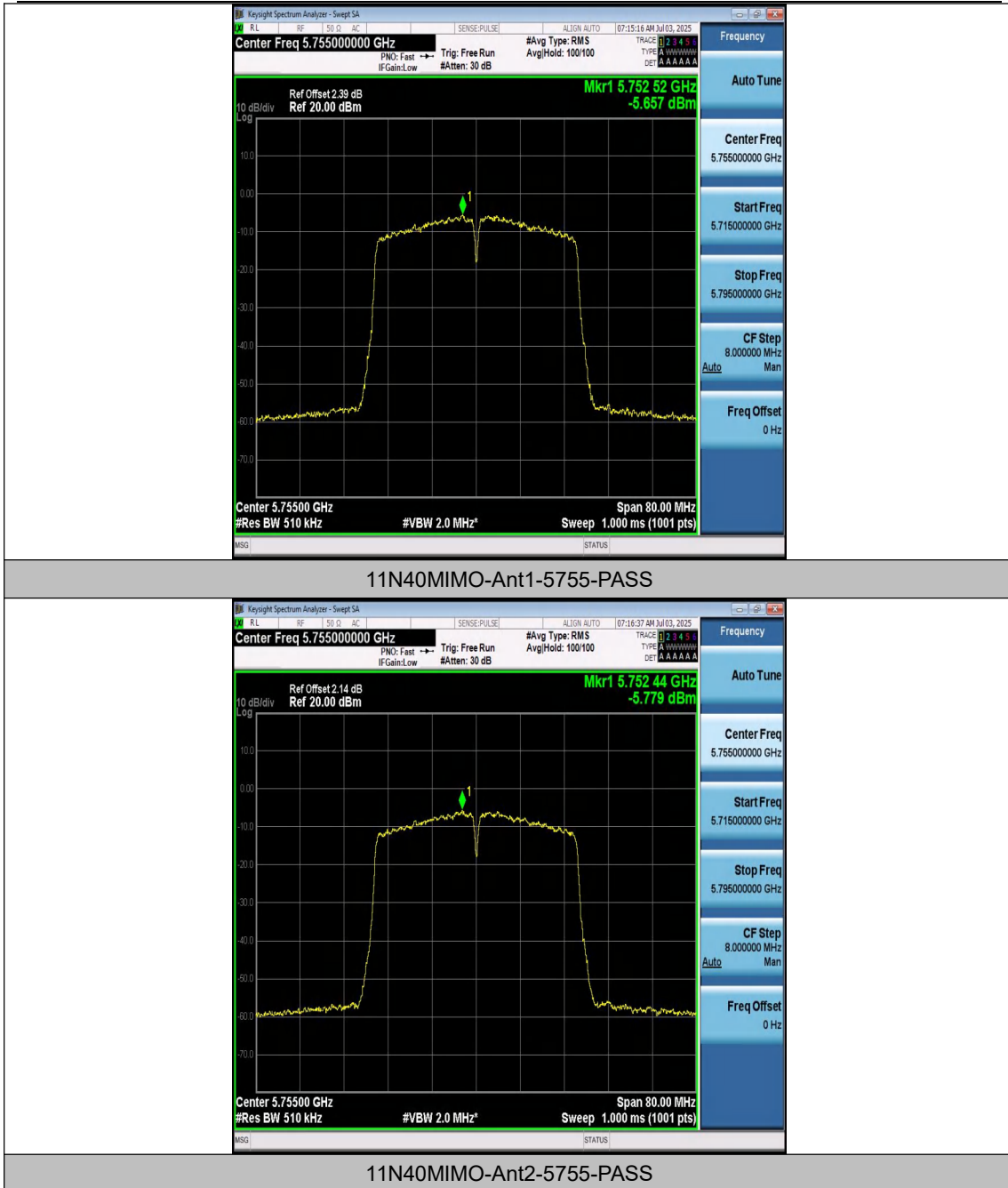
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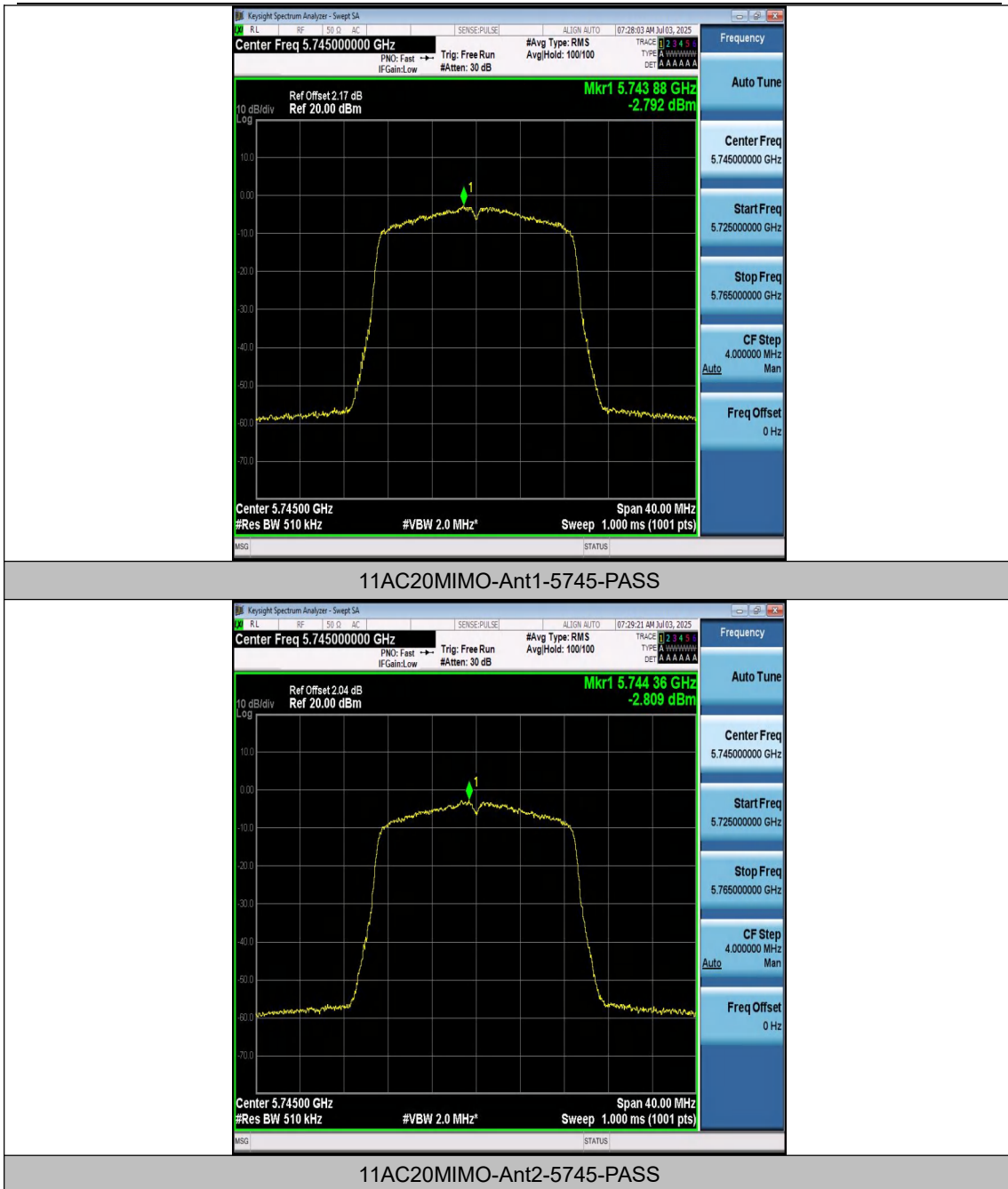
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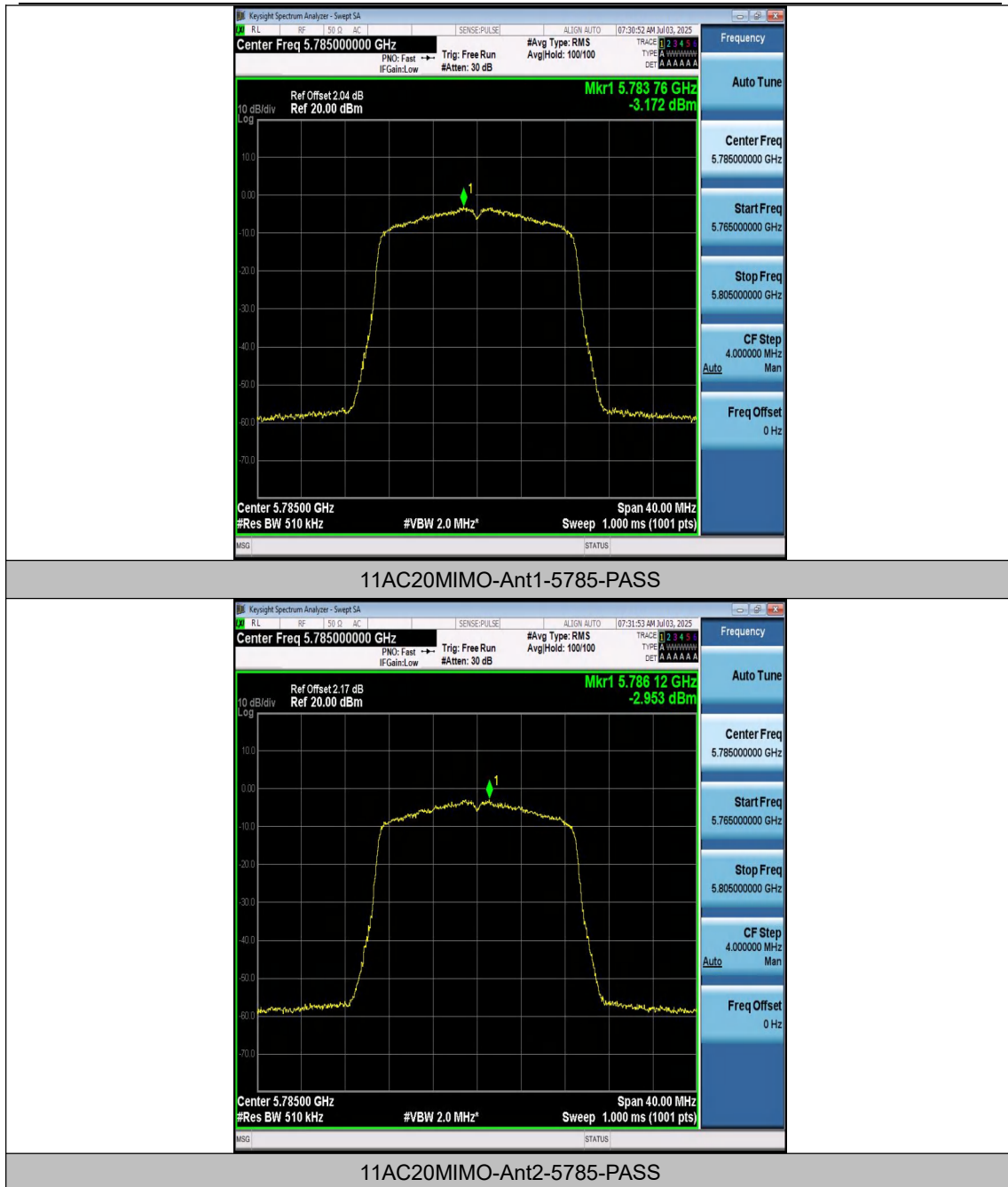
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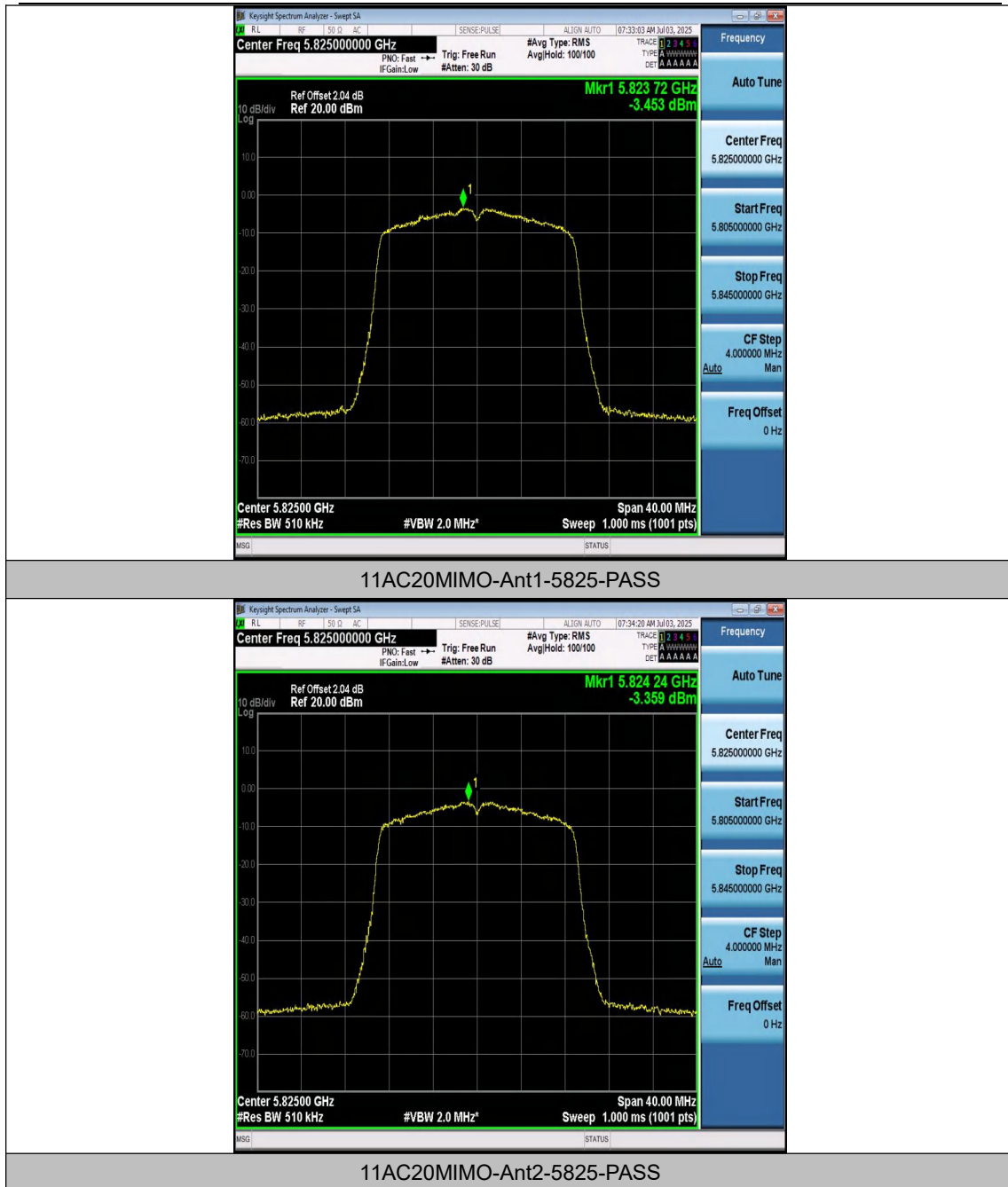
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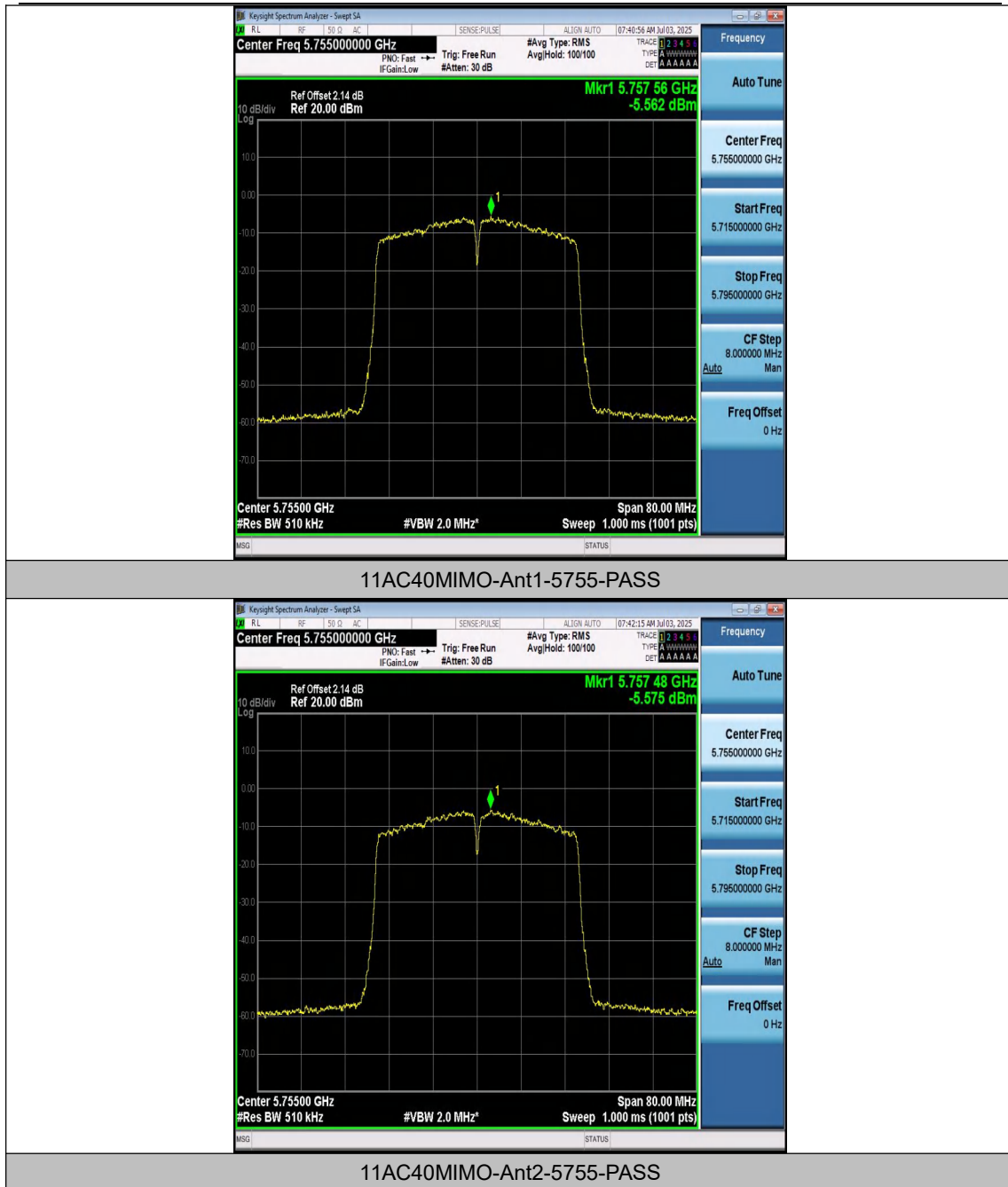
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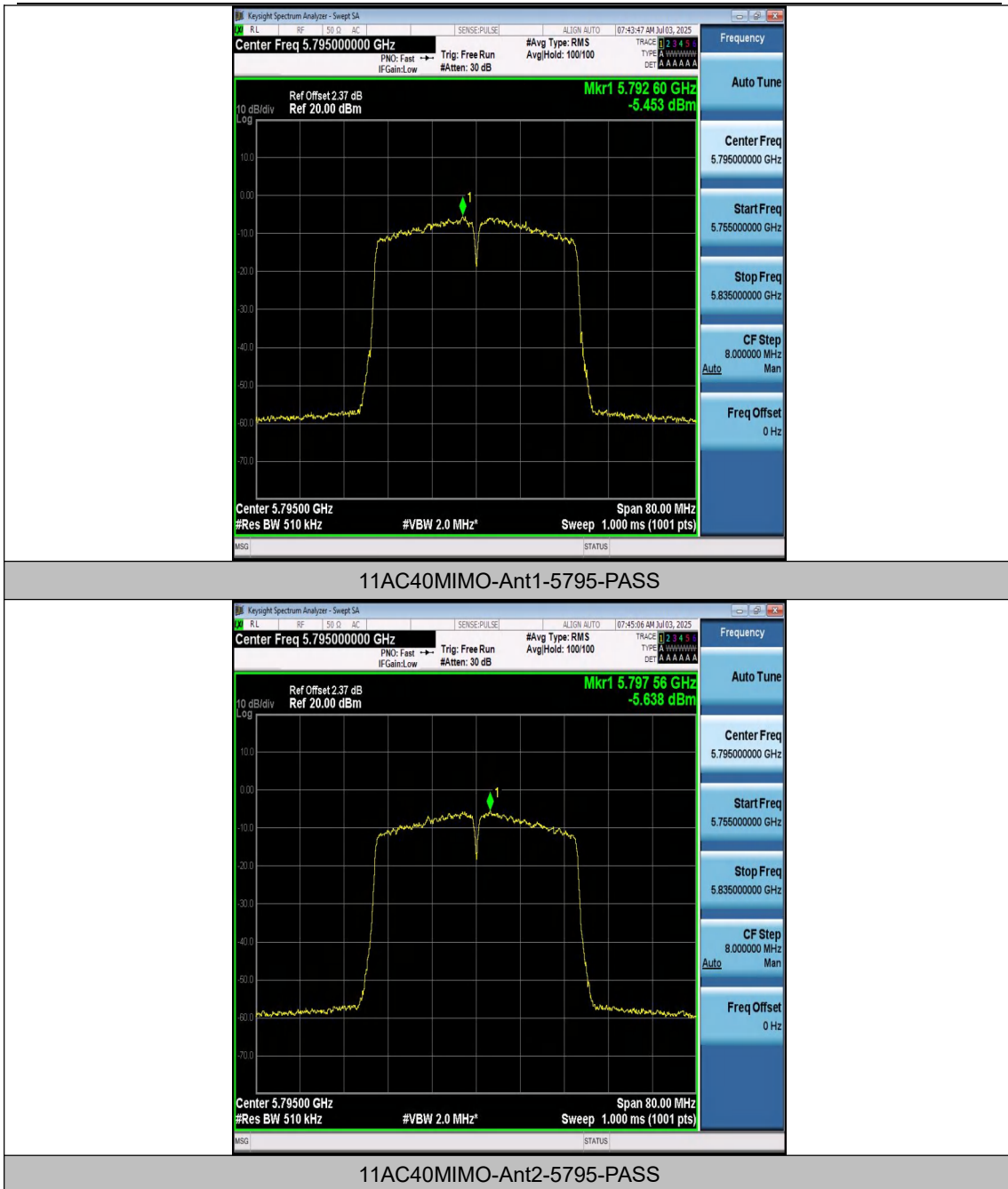
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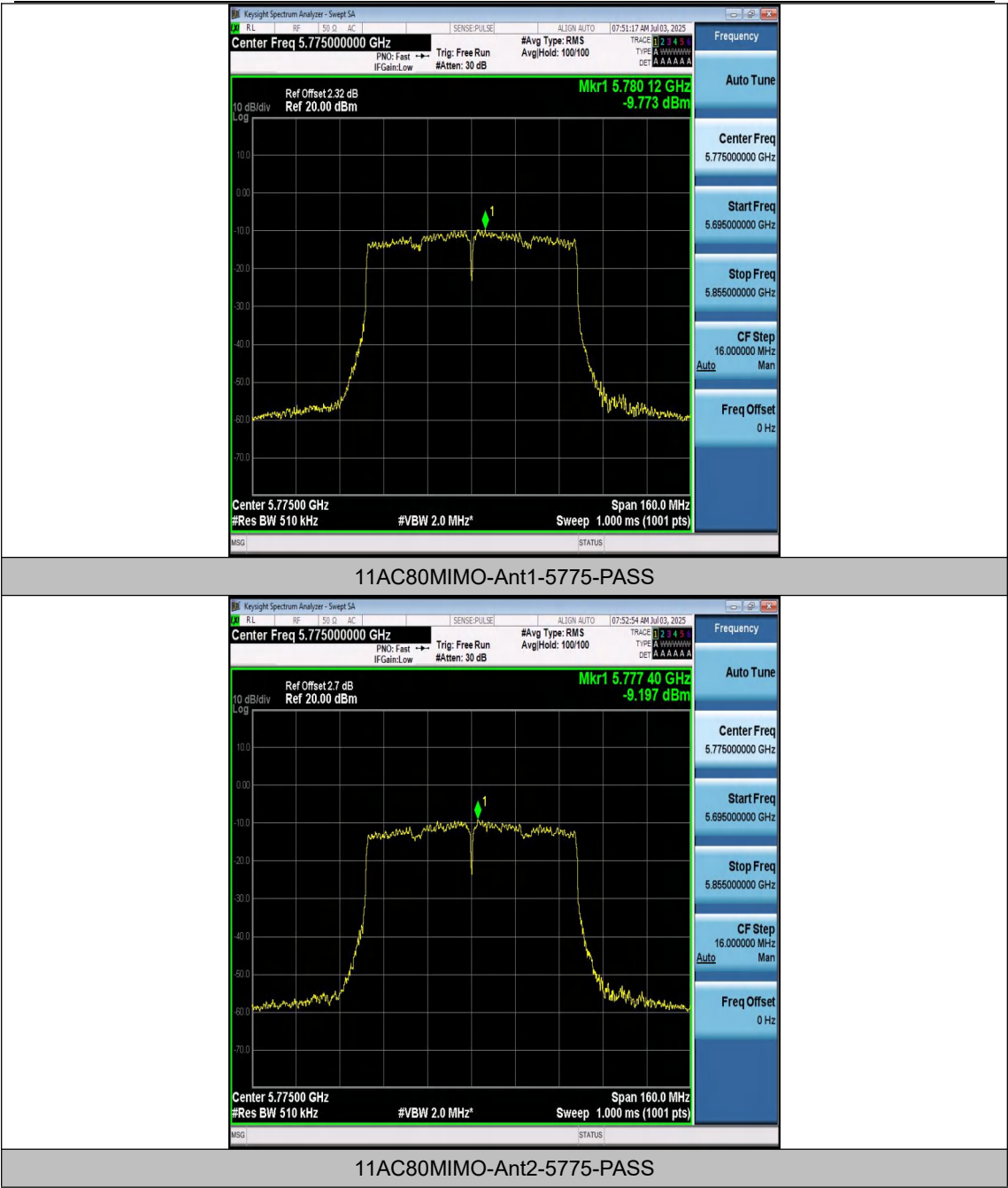
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Appendix E: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-45.62	≤-27	PASS
11A	Ant2	Low	5180	-46.78	≤-27	PASS
11A	Ant1	High	5240	-47.51	≤-27	PASS
11A	Ant2	High	5240	-47.69	≤-27	PASS
11N20MIMO	Ant1	Low	5180	-46.2	≤-27	PASS
11N20MIMO	Ant2	Low	5180	-46.47	≤-27	PASS
11N20MIMO	Ant1	High	5240	-47.09	≤-27	PASS
11N20MIMO	Ant2	High	5240	-46.56	≤-27	PASS
11N40MIMO	Ant1	Low	5190	-44.68	≤-27	PASS
11N40MIMO	Ant2	Low	5190	-45.25	≤-27	PASS
11N40MIMO	Ant1	High	5230	-46.26	≤-27	PASS
11N40MIMO	Ant2	High	5230	-47.27	≤-27	PASS
11AC20MIMO	Ant1	Low	5180	-45.71	≤-27	PASS
11AC20MIMO	Ant2	Low	5180	-46.55	≤-27	PASS
11AC20MIMO	Ant1	High	5240	-47.4	≤-27	PASS
11AC20MIMO	Ant2	High	5240	-47.57	≤-27	PASS
11AC40MIMO	Ant1	Low	5190	-46.17	≤-27	PASS
11AC40MIMO	Ant2	Low	5190	-45.9	≤-27	PASS
11AC40MIMO	Ant1	High	5230	-47.19	≤-27	PASS
11AC40MIMO	Ant2	High	5230	-47.5	≤-27	PASS
11AC80MIMO	Ant1	Low	5210	-38.49	≤-27	PASS
11AC80MIMO	Ant1	High	5210	-46.67	≤-27	PASS
11AC80MIMO	Ant2	Low	5210	-38.19	≤-27	PASS
11AC80MIMO	Ant2	High	5210	-47.06	≤-27	PASS

Note: The margin plus the antenna gain also meets the limit.

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

Test Result B4

Test Mode	Antenna	Ch. Name	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-48.08	≤15.82	PASS

Shenzhen Anbotek Compliance Laboratory Limited

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