

Appendix A: Test Results of 5GHz Wi-Fi

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Appendix A.1: Test Results of Maximum output power

SISO Mode_ANT1 for FCC

TestMode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	16.22	≤23.98	PASS
		5200	16.30	≤23.98	PASS
		5240	16.08	≤23.98	PASS
		5260	17.77	≤23.98	PASS
		5280	17.48	≤23.98	PASS
		5320	16.13	≤23.98	PASS
		5500	13.90	≤23.98	PASS
		5580	13.79	≤23.98	PASS
		5700	16.13	≤23.98	PASS
		5745	16.71	≤30.00	PASS
		5785	15.55	≤30.00	PASS
		5825	17.43	≤30.00	PASS
11N20SISO	Ant1	5180	16.14	≤23.98	PASS
		5200	16.02	≤23.98	PASS
		5240	15.88	≤23.98	PASS
		5260	17.56	≤23.98	PASS
		5280	17.39	≤23.98	PASS
		5320	16.91	≤23.98	PASS
		5500	13.77	≤23.98	PASS
		5580	13.68	≤23.98	PASS
		5700	15.97	≤23.98	PASS
		5745	16.41	≤30.00	PASS
		5785	16.80	≤30.00	PASS
		5825	17.23	≤30.00	PASS
11N40SISO	Ant1	5190	17.03	≤23.98	PASS
		5230	16.92	≤23.98	PASS
		5270	16.82	≤23.98	PASS
		5310	16.26	≤23.98	PASS
		5510	12.97	≤23.98	PASS
		5550	11.70	≤23.98	PASS
		5670	15.31	≤23.98	PASS
		5755	16.88	≤30.00	PASS
		5795	16.99	≤30.00	PASS

SISO Mode_ANT2 for FCC

TestMode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	16.45	≤23.98	PASS
		5200	16.49	≤23.98	PASS
		5240	16.39	≤23.98	PASS
		5260	17.94	≤23.98	PASS
		5280	17.68	≤23.98	PASS
		5320	17.18	≤23.98	PASS
		5500	14.01	≤23.98	PASS
		5580	13.99	≤23.98	PASS
		5700	16.33	≤23.98	PASS
		5745	16.88	≤30.00	PASS
		5785	15.74	≤30.00	PASS
		5825	17.62	≤30.00	PASS
11N20SISO	Ant2	5180	16.36	≤23.98	PASS
		5200	16.26	≤23.98	PASS
		5240	16.18	≤23.98	PASS
		5260	17.78	≤23.98	PASS
		5280	17.55	≤23.98	PASS
		5320	17.06	≤23.98	PASS
		5500	13.87	≤23.98	PASS
		5580	13.79	≤23.98	PASS
		5700	16.16	≤23.98	PASS
		5745	16.65	≤30.00	PASS
		5785	16.97	≤30.00	PASS
		5825	17.43	≤30.00	PASS
11N40SISO	Ant2	5190	17.19	≤23.98	PASS
		5230	17.12	≤23.98	PASS
		5270	16.90	≤23.98	PASS
		5310	16.40	≤23.98	PASS
		5510	13.07	≤23.98	PASS
		5550	11.88	≤23.98	PASS
		5670	15.44	≤23.98	PASS
		5755	17.04	≤30.00	PASS
		5795	17.19	≤30.00	PASS

SISO Mode_ANT1 for IC

TestMode	Antenna	Channel	Result, E.I.R.P. [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	18.79	≤21.00	PASS
		5200	18.87	≤21.00	PASS
		5240	18.65	≤21.00	PASS
11N20SISO	Ant1	5180	18.71	≤21.00	PASS
		5200	18.59	≤21.00	PASS
		5240	18.45	≤21.00	PASS
11N40SISO	Ant1	5190	19.60	≤21.00	PASS
		5230	19.49	≤21.00	PASS

SISO Mode_ANT2 for IC

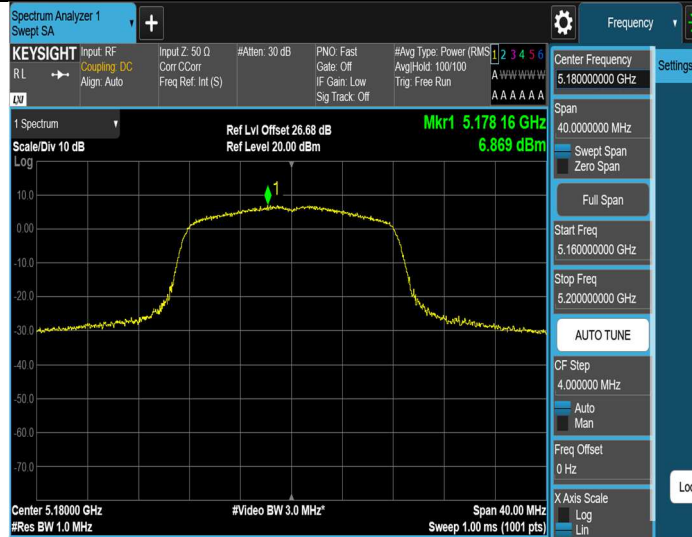
TestMode	Antenna	Channel	Result, E.I.R.P. [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	19.25	≤21.00	PASS
		5200	19.29	≤21.00	PASS
		5240	19.19	≤21.00	PASS
11N20SISO	Ant2	5180	19.16	≤21.00	PASS
		5200	19.06	≤21.00	PASS
		5240	18.98	≤21.00	PASS
11N40SISO	Ant2	5190	19.99	≤21.00	PASS
		5230	19.92	≤21.00	PASS

Appendix A.2: Test Results of Conducted Power Spectral Density

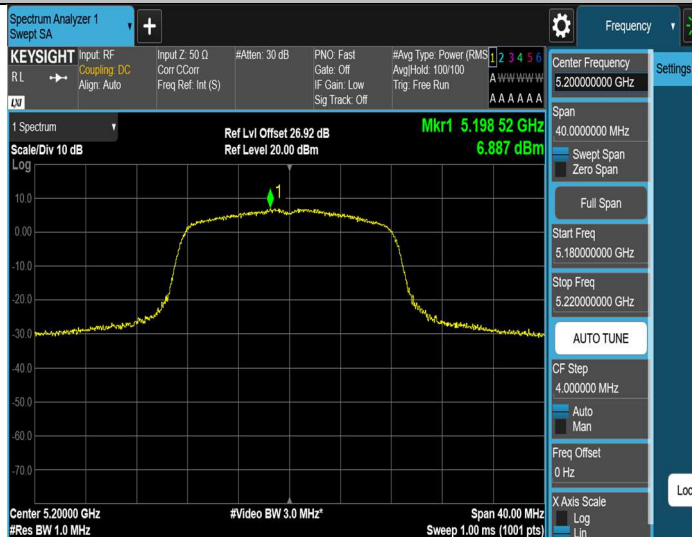
Only the worst case ANT 2 reported.

TestMode	Antenna	Channel	Conducted Result [dBm/MHz]	Conducted Limit [dBm/MHz]	EIRP Result [dBm/MHz]	EIRPLimit [dBm/MHz]	Verdict
11A	Ant2	5180	6.87	≤11.00	9.67	≤10.00	PASS
		5200	6.89	≤11.00	9.69	≤10.00	PASS
		5240	6.80	≤11.00	9.60	≤10.00	PASS
		5260	8.14	≤11.00	--	--	PASS
		5280	7.81	≤11.00	--	--	PASS
		5320	6.62	≤11.00	--	--	PASS
		5500	4.11	≤11.00	--	--	PASS
		5580	4.07	≤11.00	--	--	PASS
		5700	7.28	≤11.00	--	--	PASS
		5745	4.74	≤30.00	--	--	PASS
		5785	3.68	≤30.00	--	--	PASS
		5825	4.71	≤30.00	--	--	PASS
11N20SISO	Ant2	5180	7.04	≤11.00	9.84	≤10.00	PASS
		5200	7.06	≤11.00	9.86	≤10.00	PASS
		5240	6.97	≤11.00	9.77	≤10.00	PASS
		5260	7.87	≤11.00	--	--	PASS
		5280	7.67	≤11.00	--	--	PASS
		5320	7.28	≤11.00	--	--	PASS
		5500	4.38	≤11.00	--	--	PASS
		5580	4.07	≤11.00	--	--	PASS
		5700	7.52	≤11.00	--	--	PASS
		5745	4.69	≤30.00	--	--	PASS
		5785	4.41	≤30.00	--	--	PASS
		5825	4.79	≤30.00	--	--	PASS
11N40SISO	Ant2	5190	6.37	≤11.00	9.17	≤10.00	PASS
		5230	4.86	≤11.00	7.66	≤10.00	PASS
		5270	3.86	≤11.00	--	--	PASS
		5310	2.94	≤11.00	--	--	PASS
		5510	0.81	≤11.00	--	--	PASS
		5550	-0.74	≤11.00	--	--	PASS
		5670	3.57	≤11.00	--	--	PASS
		5755	2.49	≤30.00	--	--	PASS
		5795	2.56	≤30.00	--	--	PASS

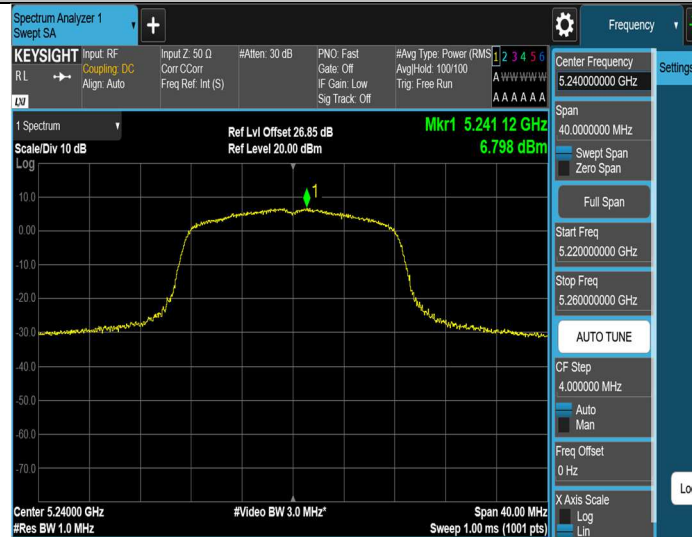
11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11A_Ant2_5260



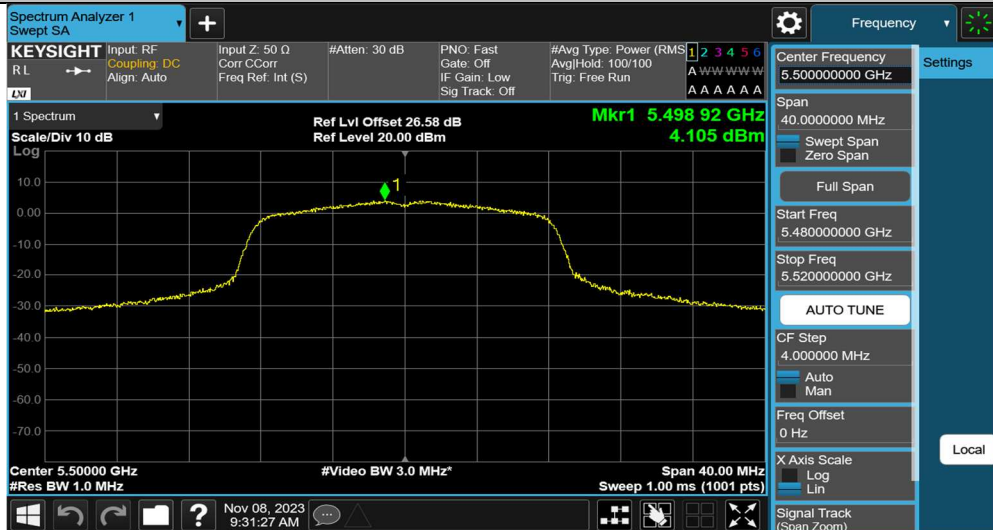
11A_Ant2_5280



11A_Ant2_5320



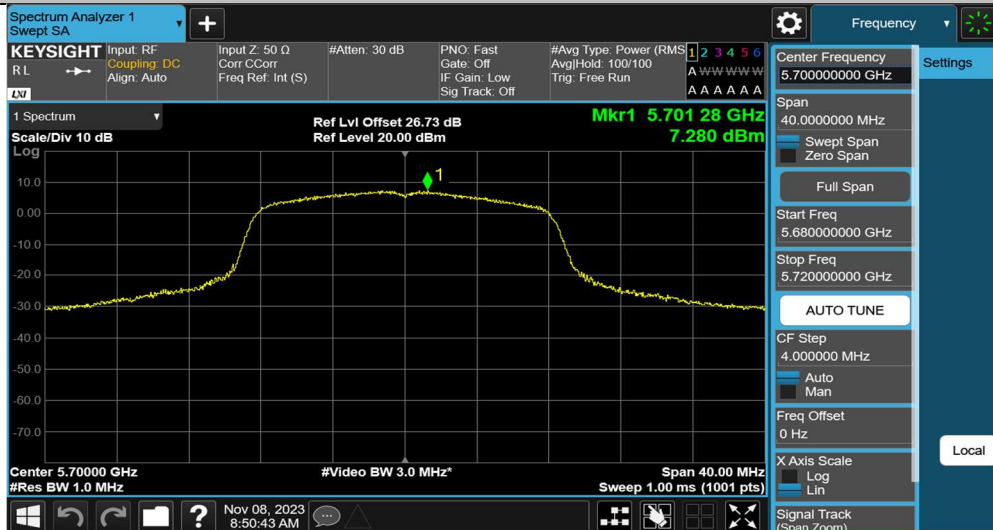
11A_Ant2_5500



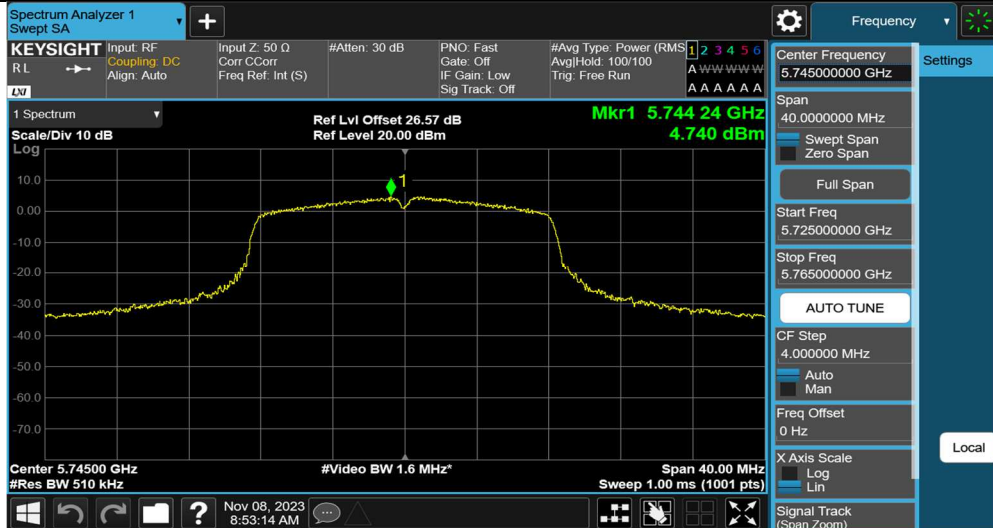
11A_Ant2_5580



11A_Ant2_5700



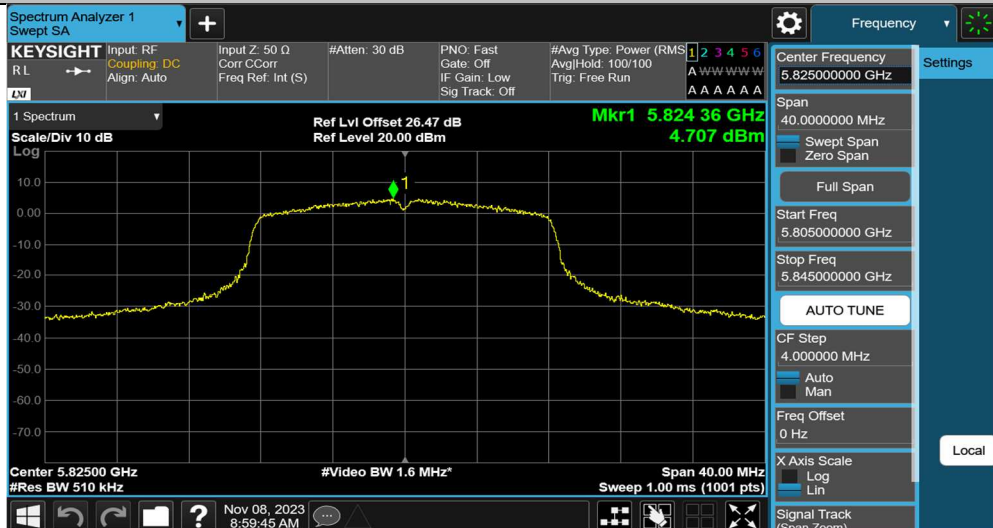
11A_Ant2_5745



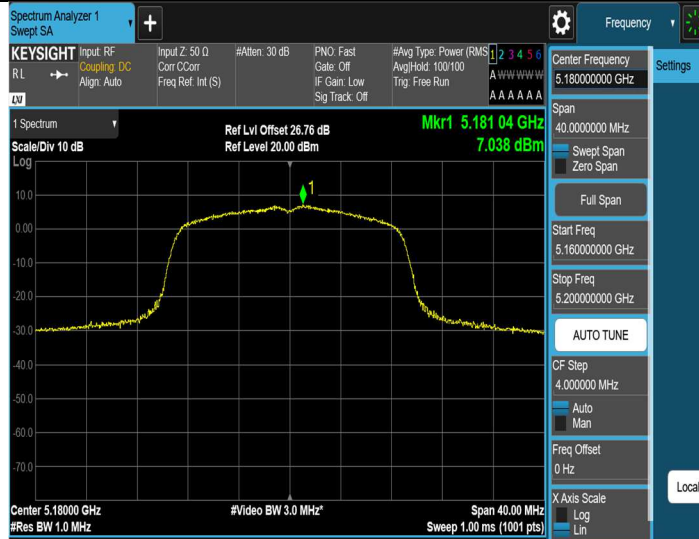
11A_Ant2_5785



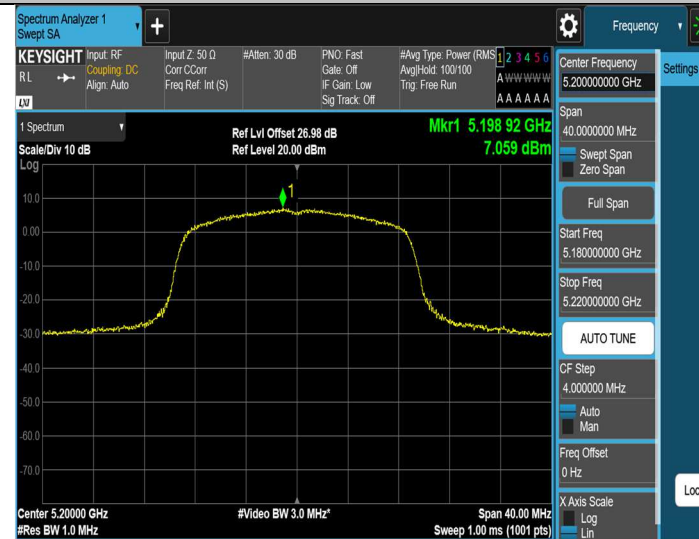
11A_Ant2_5825



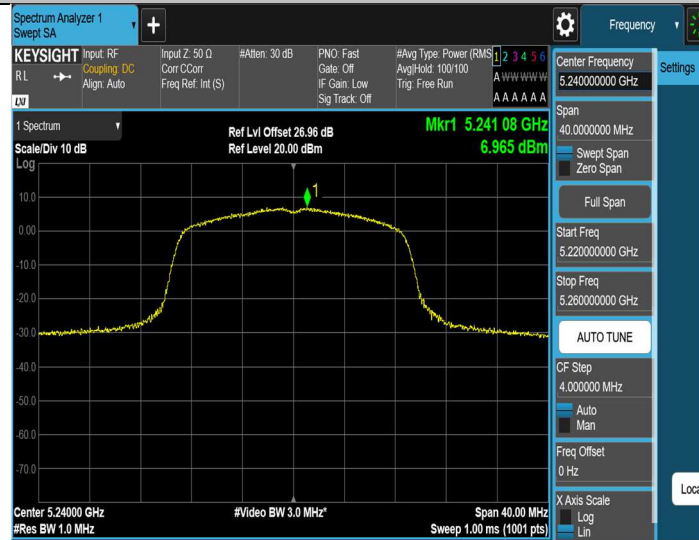
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N20SISO_Ant2_5260



11N20SISO_Ant2_5280



11N20SISO_Ant2_5320



11N20SISO_Ant2_5500



11N20SISO_Ant2_5580



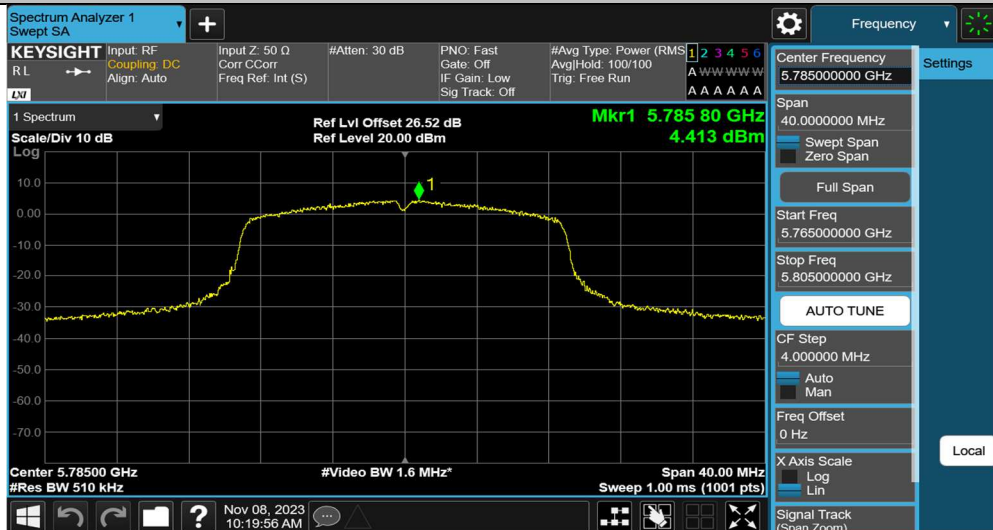
11N20SISO_Ant2_5700



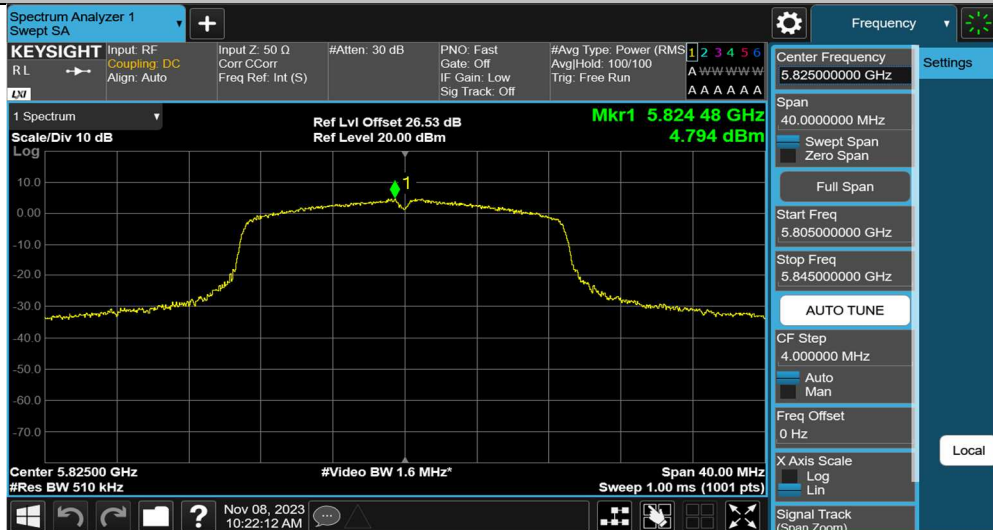
11N20SISO_Ant2_5745

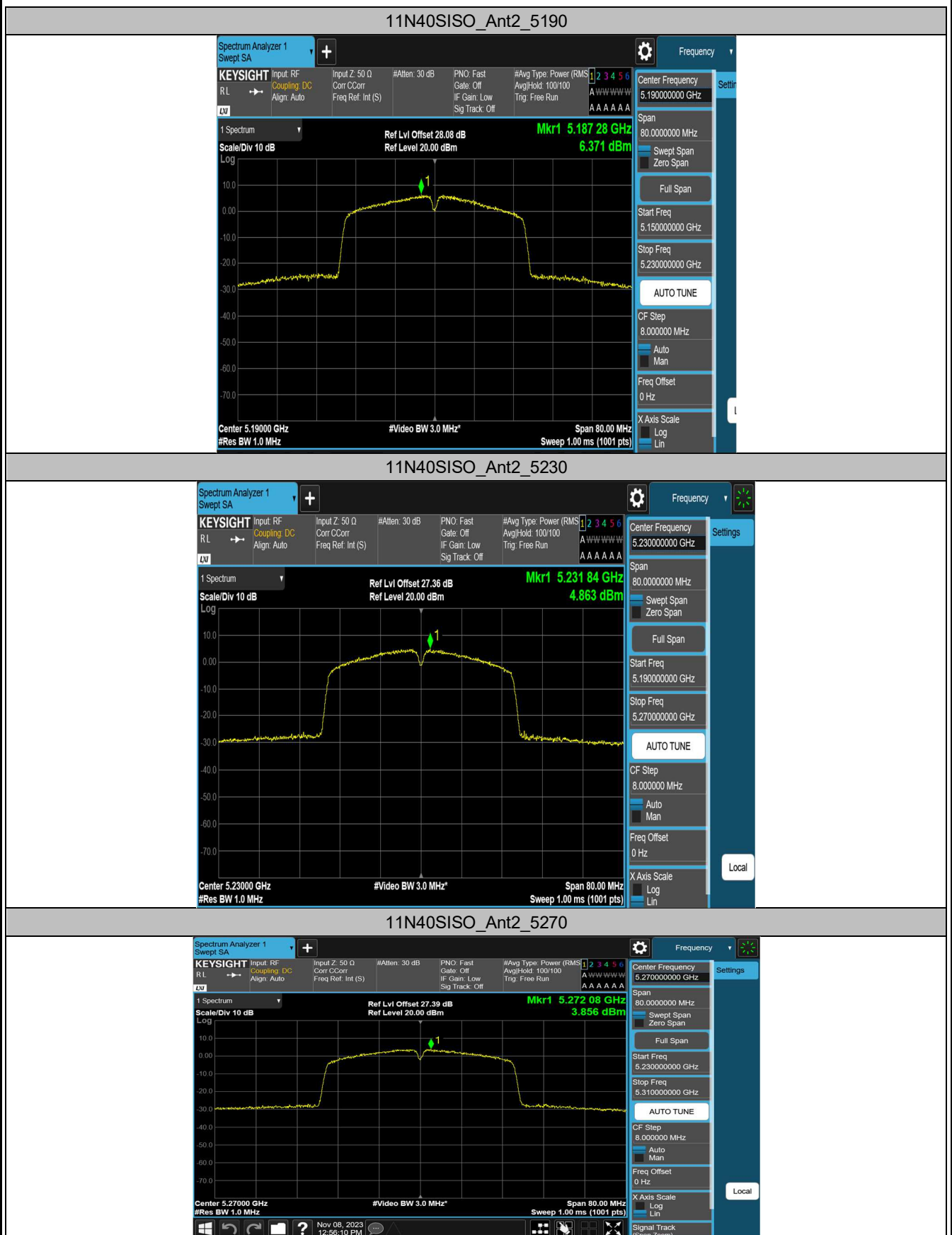


11N20SISO_Ant2_5785

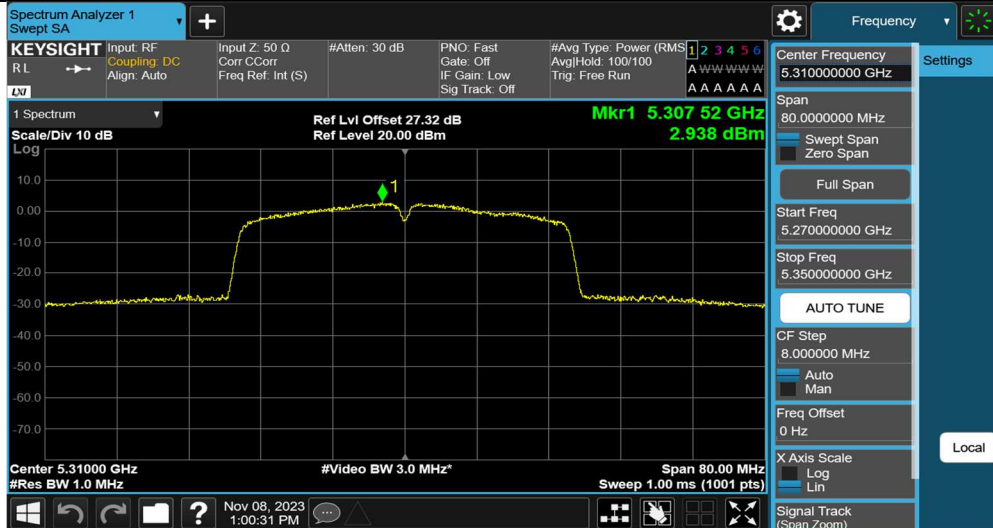


11N20SISO_Ant2_5825

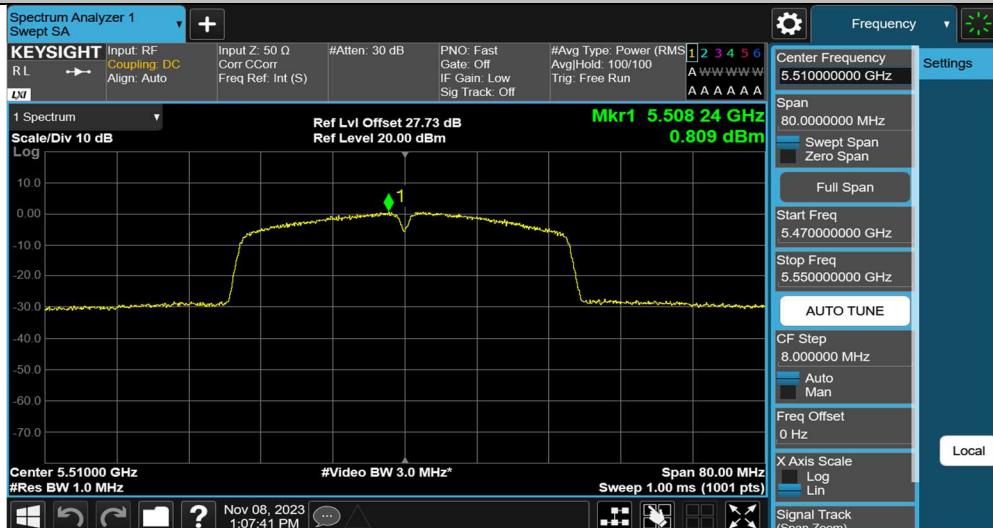




11N40SISO_Ant2_5310



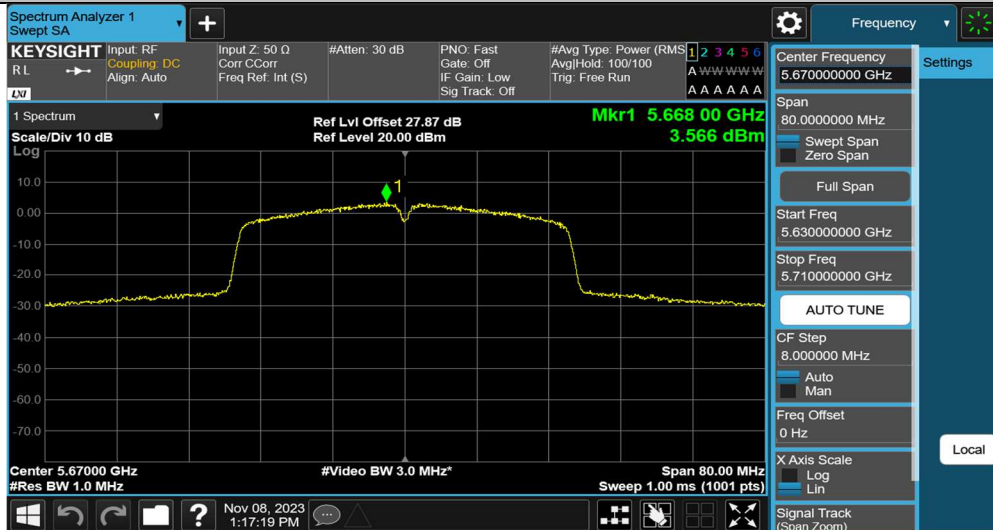
11N40SISO_Ant2_5510



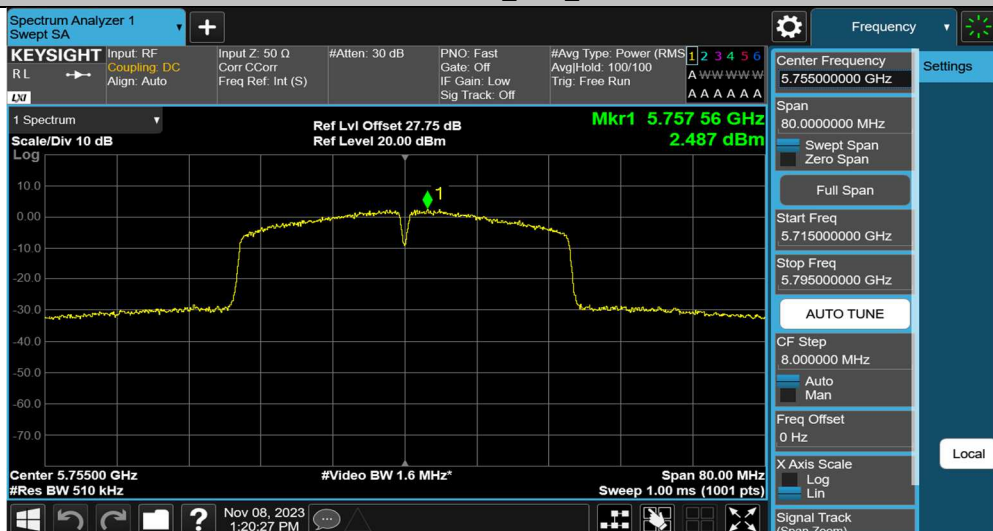
11N40SISO_Ant2_5550



11N40SISO_Ant2_5670



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



Appendix A.3: Test Results of Frequency Stability

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SISO	Ant2	5180	NV	NT	-40000.00	-7.722008	20	PASS
		5200	NV	NT	-41000.00	-7.884615	20	PASS
		5240	NV	NT	-42000.00	-8.015267	20	PASS
		5260	NV	NT	-42000.00	-7.984791	20	PASS
		5280	NV	NT	-42000.00	-7.954545	20	PASS
		5320	NV	NT	-43000.00	-8.082707	20	PASS
		5500	NV	NT	-43000.00	-7.818182	20	PASS
		5580	NV	NT	-44000.00	-7.885305	20	PASS
		5700	NV	NT	-46000.00	-8.070175	20	PASS
		5745	NV	NT	-46000.00	-8.006963	20	PASS
		5785	NV	NT	-47000.00	-8.124460	20	PASS
		5825	NV	NT	-47000.00	-8.068670	20	PASS
11N40SISO	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	-39000.00	-7.456979	20	PASS
		5270	NV	NT	-45000.00	-8.538899	20	PASS
		5310	NV	NT	-41000.00	-7.721281	20	PASS
		5510	NV	NT	-43000.00	-7.803993	20	PASS
		5550	NV	NT	-42000.00	-7.567568	20	PASS
		5670	NV	NT	-40000.00	-7.054674	20	PASS
		5755	NV	NT	-45000.00	-7.819288	20	PASS
		5795	NV	NT	-47000.00	-8.110440	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SISO	Ant2	5180	NV	0	-44000.00	-8.494208	20	PASS
			NV	40	-44000.00	-8.494208	20	PASS
		5200	NV	0	-43000.00	-8.269231	20	PASS
			NV	40	-44000.00	-8.461538	20	PASS
		5240	NV	0	-44000.00	-8.396947	20	PASS
			NV	40	-44000.00	-8.396947	20	PASS
		5260	NV	0	-44000.00	-8.365019	20	PASS
			NV	40	-45000.00	-8.555133	20	PASS
		5280	NV	0	-44000.00	-8.333333	20	PASS
			NV	40	-45000.00	-8.522727	20	PASS
		5320	NV	0	-45000.00	-8.458647	20	PASS
			NV	40	-45000.00	-8.458647	20	PASS
		5500	NV	0	-46000.00	-8.363636	20	PASS
			NV	40	-47000.00	-8.545455	20	PASS
		5580	NV	0	-47000.00	-8.422939	20	PASS
			NV	40	-48000.00	-8.602151	20	PASS
		5700	NV	0	-49000.00	-8.596491	20	PASS
			NV	40	-49000.00	-8.596491	20	PASS
		5745	NV	0	-48000.00	-8.355091	20	PASS
			NV	40	-50000.00	-8.703220	20	PASS
		5785	NV	0	-50000.00	-8.643042	20	PASS
			NV	40	-50000.00	-8.643042	20	PASS
		5825	NV	0	-50000.00	-8.583691	20	PASS
			NV	40	-51000.00	-8.755365	20	PASS
11N40SISO	Ant2	5190	NV	0	-43000.00	-8.285164	20	PASS
			NV	40	-44000.00	-8.477842	20	PASS
		5230	NV	0	-46000.00	-8.795411	20	PASS
			NV	40	-47000.00	-8.986616	20	PASS
		5270	NV	0	-45000.00	-8.538899	20	PASS
			NV	40	-45000.00	-8.538899	20	PASS
		5310	NV	0	-43000.00	-8.097928	20	PASS
			NV	40	-44000.00	-8.286252	20	PASS
		5510	NV	0	-46000.00	-8.348457	20	PASS
			NV	40	-47000.00	-8.529946	20	PASS
		5550	NV	0	-46000.00	-8.288288	20	PASS
			NV	40	-47000.00	-8.468468	20	PASS
		5670	NV	0	-45000.00	-7.936508	20	PASS
			NV	40	-47000.00	-8.289242	20	PASS
		5755	NV	0	-50000.00	-8.688097	20	PASS
			NV	40	-50000.00	-8.688097	20	PASS
		5795	NV	0	-50000.00	-8.628128	20	PASS
			NV	40	-50000.00	-8.628128	20	PASS

Appendix A.4: Test Results of 26dB Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant2	5180	19.920	5170.440	5190.360	---	PASS
		5200	19.880	5190.080	5209.960	---	PASS
		5240	19.640	5230.400	5250.040	---	PASS
		5260	19.600	5250.240	5269.840	---	PASS
		5280	19.960	5270.560	5290.520	---	PASS
		5320	20.040	5310.200	5330.240	---	PASS
		5500	21.200	5489.280	5510.480	---	PASS
		5580	21.160	5569.280	5590.440	---	PASS
		5700	19.480	5690.240	5709.720	---	PASS
11N20SISO	Ant2	5180	20.320	5169.840	5190.160	---	PASS
		5200	20.560	5189.520	5210.080	---	PASS
		5240	20.640	5229.680	5250.320	---	PASS
		5260	20.240	5249.840	5270.080	---	PASS
		5280	20.960	5269.480	5290.440	---	PASS
		5320	20.840	5309.880	5330.720	---	PASS
		5500	20.600	5489.720	5510.320	---	PASS
		5580	20.440	5569.600	5590.040	---	PASS
		5700	20.040	5689.880	5709.920	---	PASS
11N40SISO	Ant2	5190	38.080	5170.960	5209.040	---	PASS
		5230	37.920	5211.120	5249.040	---	PASS
		5270	38.400	5250.640	5289.040	---	PASS
		5310	38.000	5291.040	5329.040	---	PASS
		5510	38.240	5490.800	5529.040	---	PASS
		5550	38.720	5530.560	5569.280	---	PASS
		5670	38.160	5650.800	5688.960	---	PASS