

Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Aston Martin Valkyrie
Test Model: Aston Martin Valkyrie

Environmental Conditions

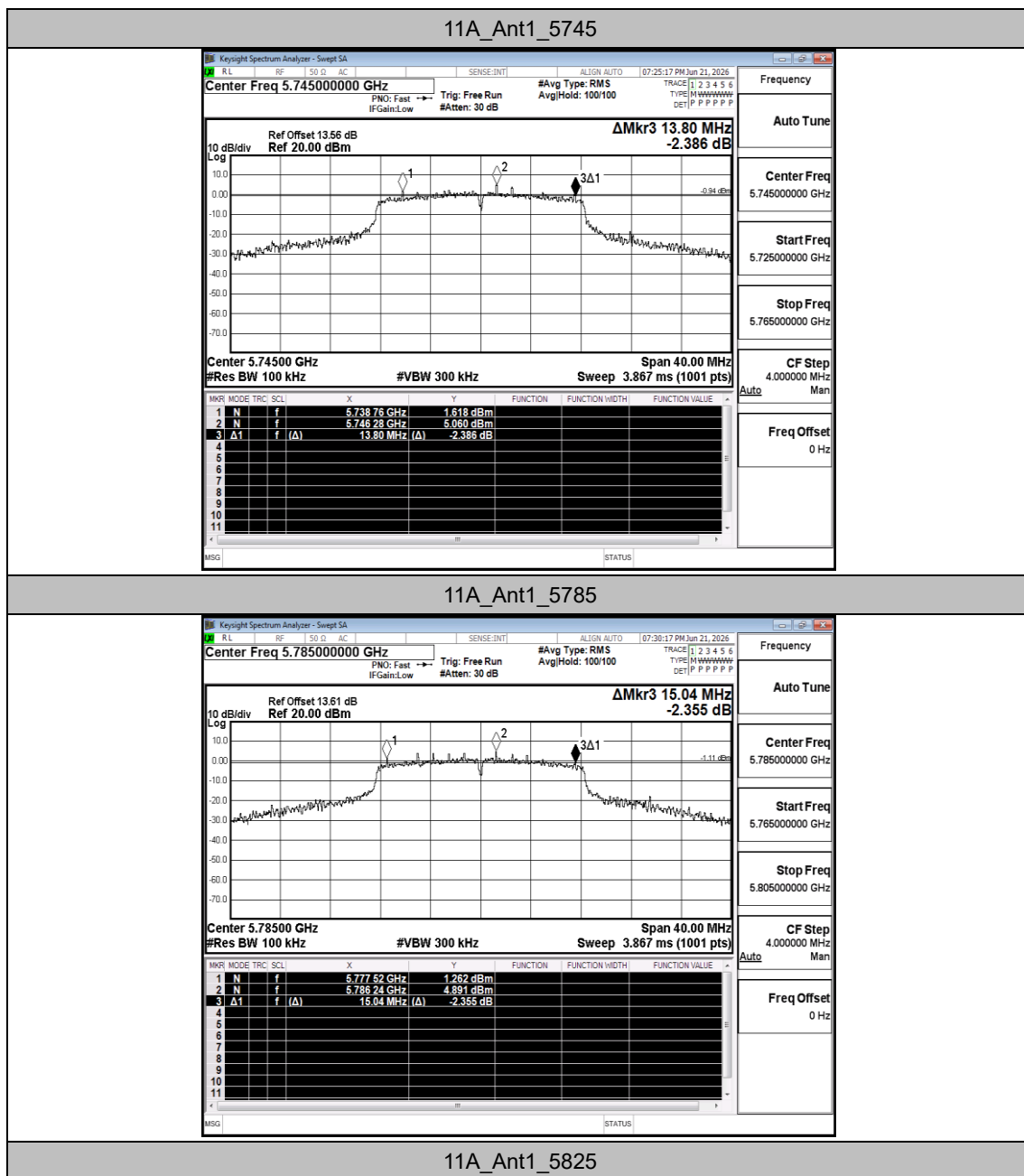
Temperature:	24.8° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

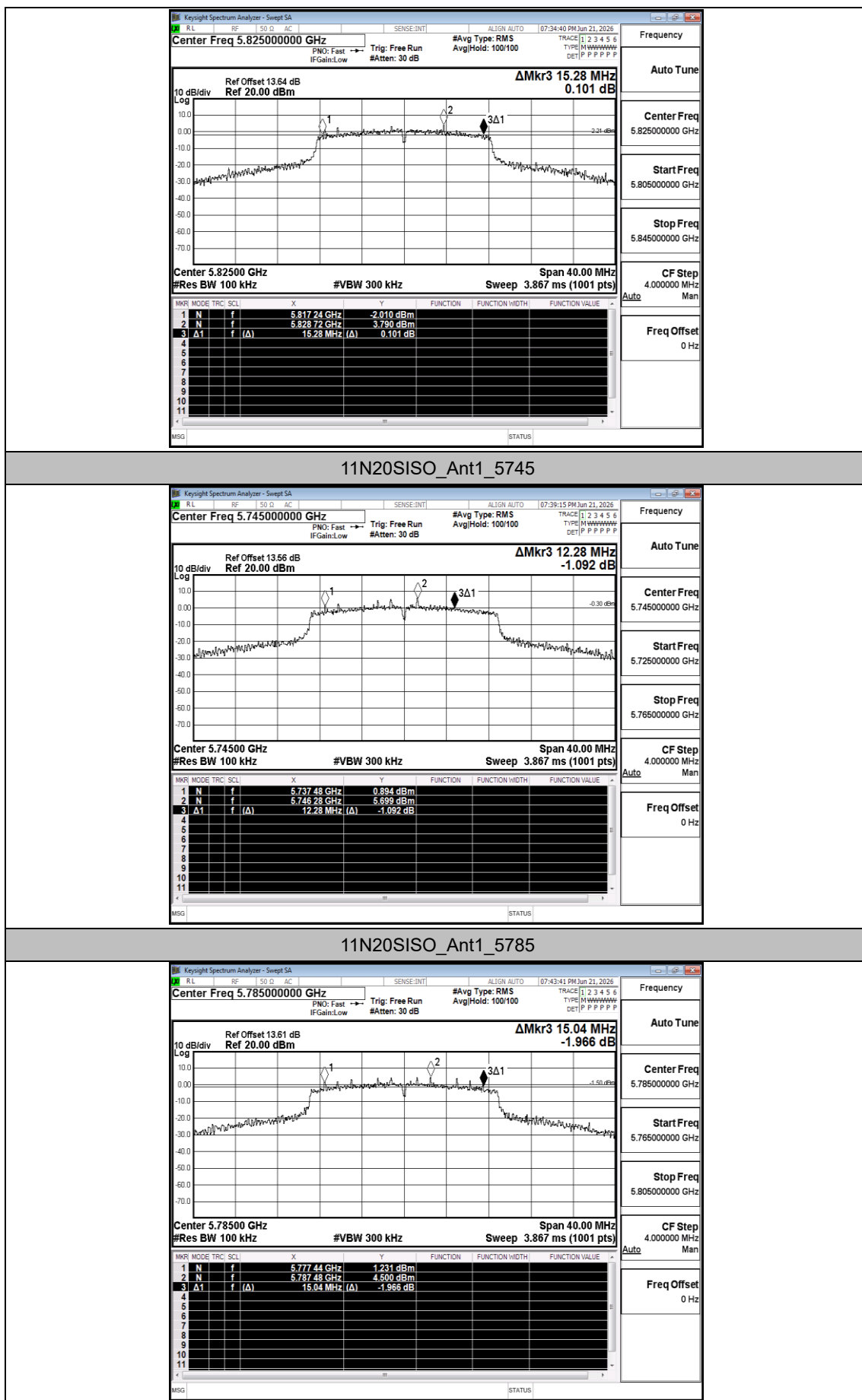
E.1 6dB Occupied Bandwidth

Test Result

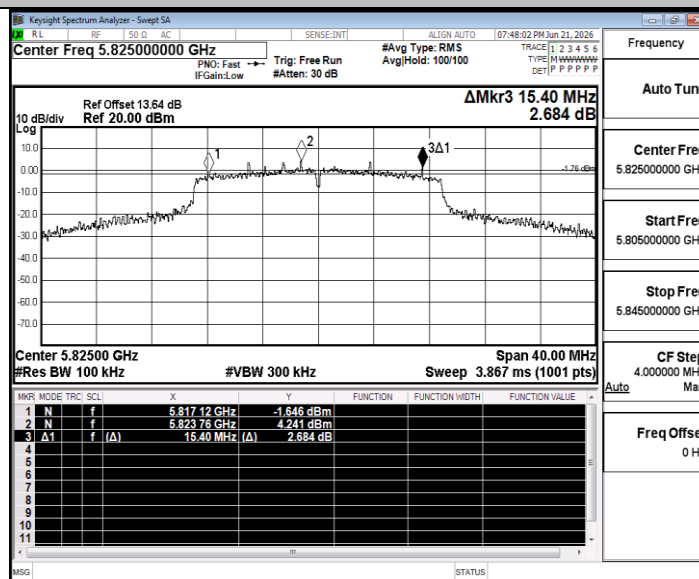
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	13.800	5738.760	5752.560	0.5	PASS
		5785	15.040	5777.520	5792.560	0.5	PASS
		5825	15.280	5817.240	5832.520	0.5	PASS
11N20SISO	Ant1	5745	12.280	5737.480	5749.760	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.400	5817.120	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	33.840	5777.480	5811.320	0.5	PASS
11AC20SISO	Ant1	5745	14.480	5738.080	5752.560	0.5	PASS
		5785	15.000	5777.480	5792.480	0.5	PASS
		5825	15.000	5817.520	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AX20SISO	Ant1	5745	15.000	5737.520	5752.520	0.5	PASS
		5785	12.640	5778.680	5791.320	0.5	PASS
		5825	13.840	5818.680	5832.520	0.5	PASS
11AX40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	33.840	5777.480	5811.320	0.5	PASS

Test Graphs

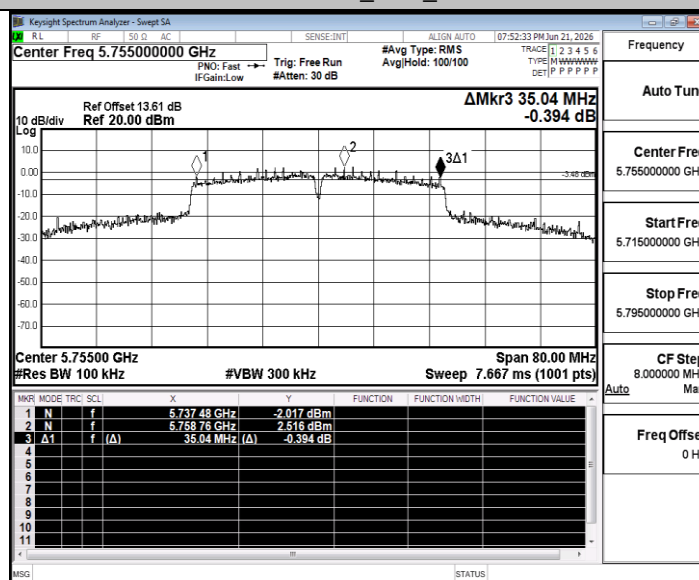




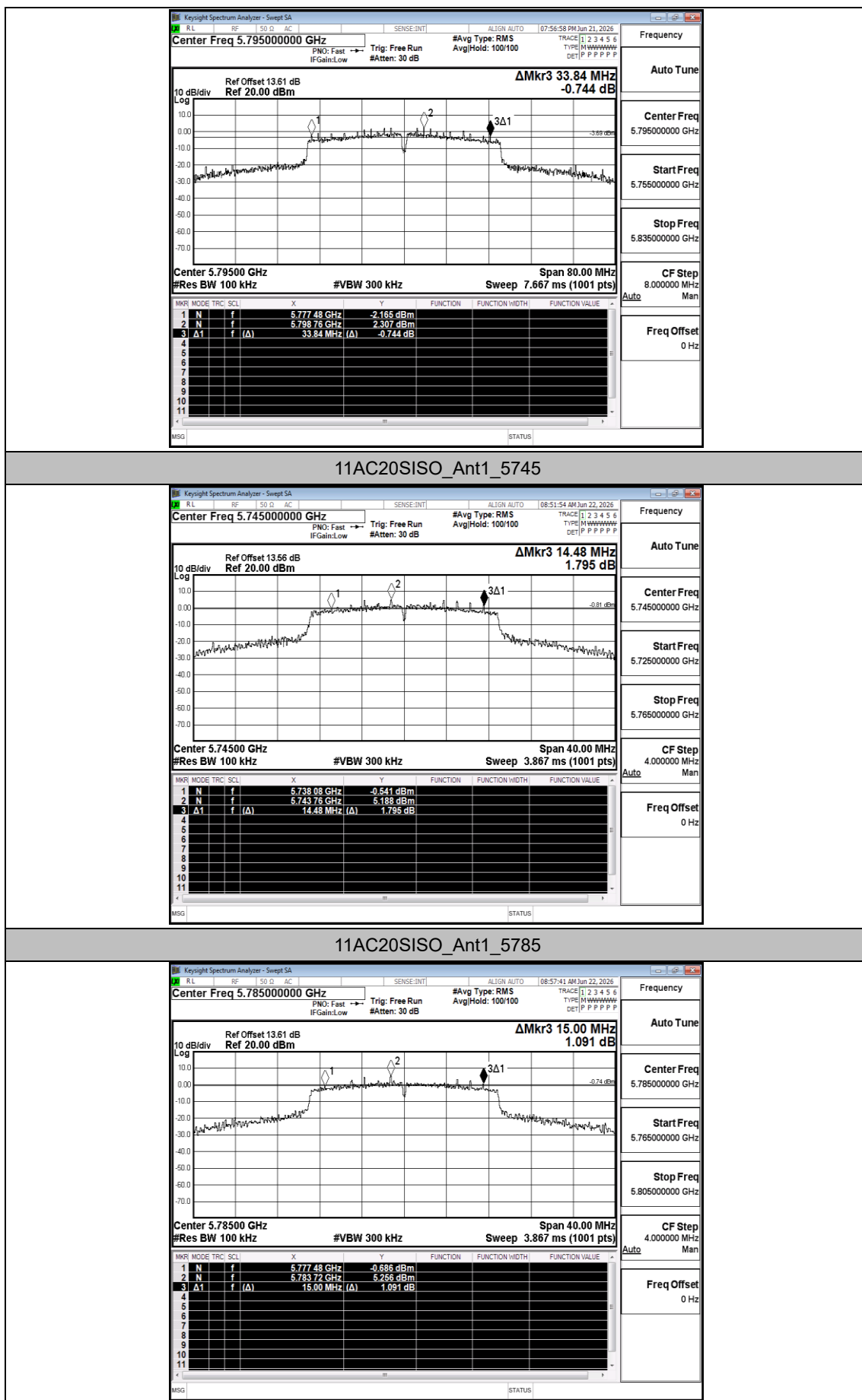
11N20SISO_Ant1_5825

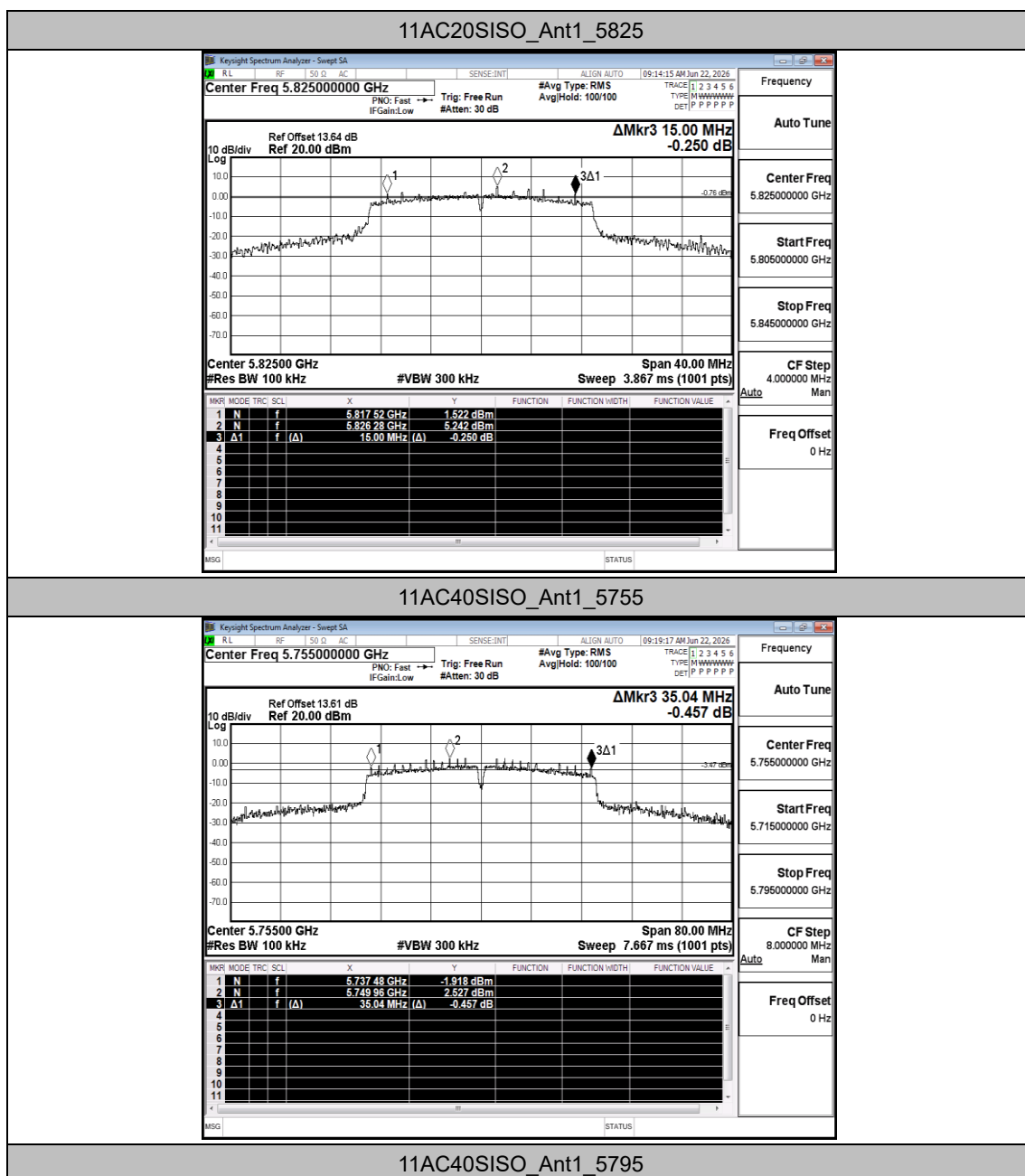


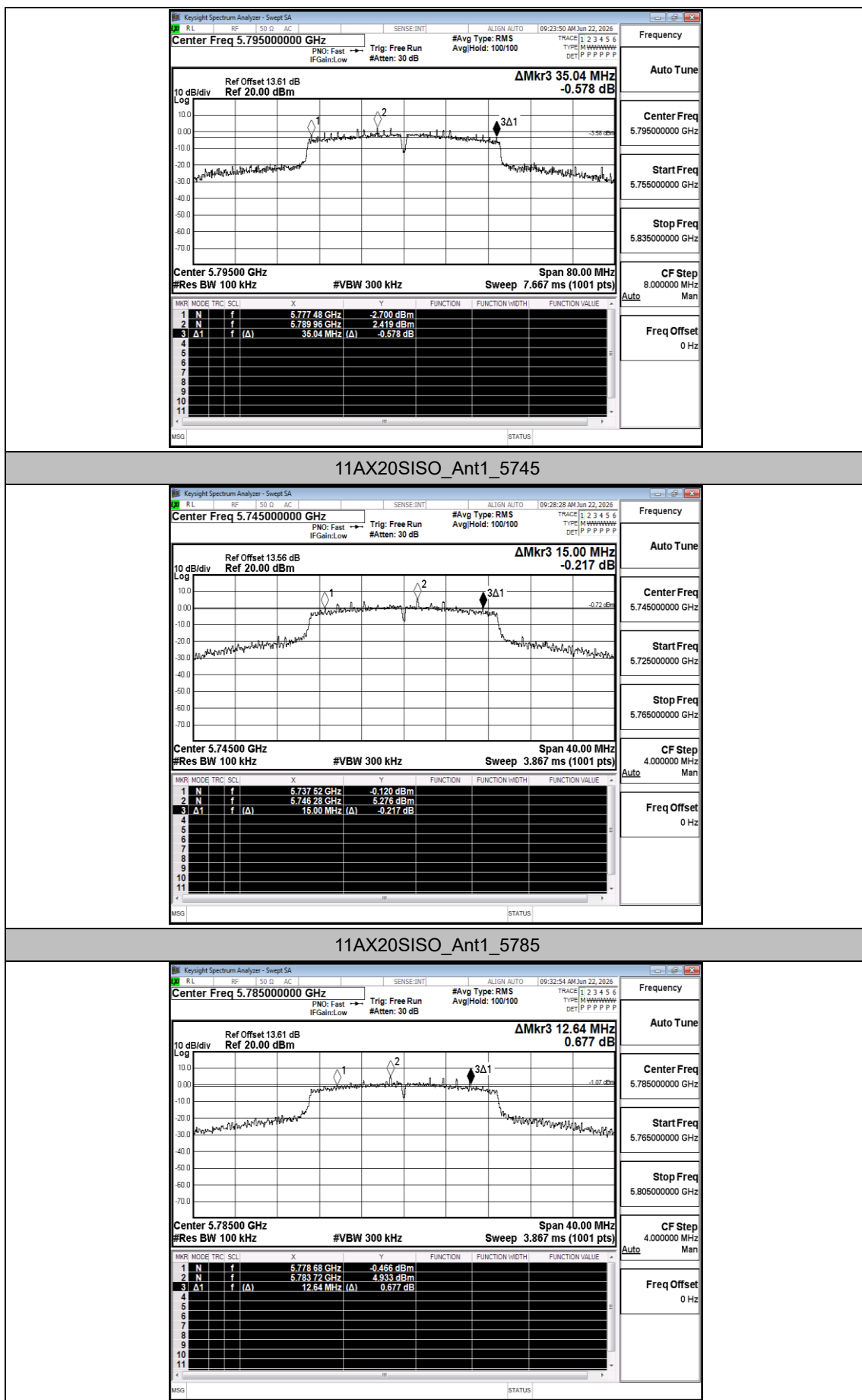
11N40SISO_Ant1_5755

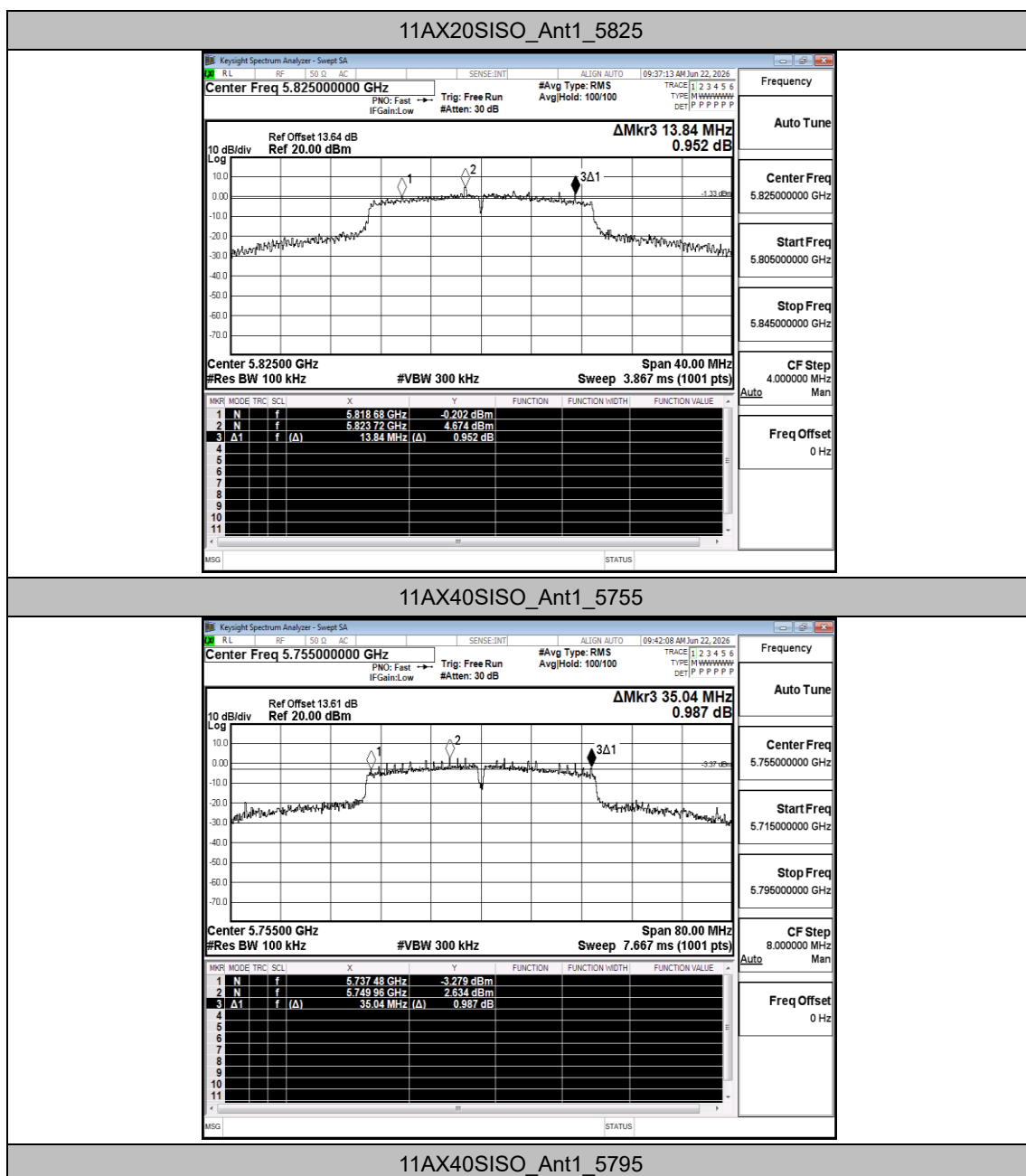


11N40SISO_Ant1_5795

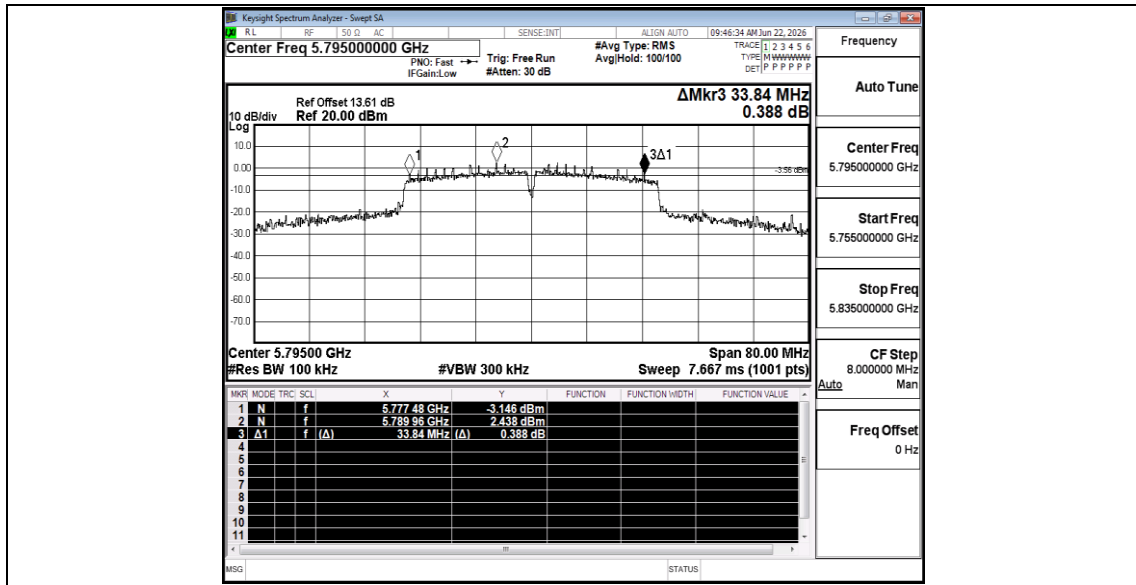








11AX40SISO_Ant1_5795



E.2 Maximum conducted output power

Test Mode	Antenna	Freq (MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	7.26	0.12	7.38	≤30.00	PASS
		5785	6.93	0.15	7.08	≤30.00	PASS
		5825	7.04	0.12	7.16	≤30.00	PASS
11N20SISO	Ant1	5745	6.85	0.16	7.01	≤30.00	PASS
		5785	6.67	0.13	6.80	≤30.00	PASS
		5825	6.67	0.13	6.80	≤30.00	PASS
11N40SISO	Ant1	5755	6.52	0.33	6.85	≤30.00	PASS
		5795	6.34	0.33	6.67	≤30.00	PASS
11AC20SISO	Ant1	5745	6.44	0.13	6.57	≤30.00	PASS
		5785	5.97	0.13	6.10	≤30.00	PASS
		5825	6.27	0.13	6.40	≤30.00	PASS
11AC40SISO	Ant1	5755	6.47	0.26	6.73	≤30.00	PASS
		5795	6.27	0.26	6.53	≤30.00	PASS
11AX20SISO	Ant1	5745	7.20	0.13	7.33	≤30.00	PASS
		5785	6.93	0.13	7.06	≤30.00	PASS
		5825	6.95	0.16	7.11	≤30.00	PASS
11AX40SISO	Ant1	5755	6.45	0.32	6.77	≤30.00	PASS
		5795	6.29	0.32	6.61	≤30.00	PASS

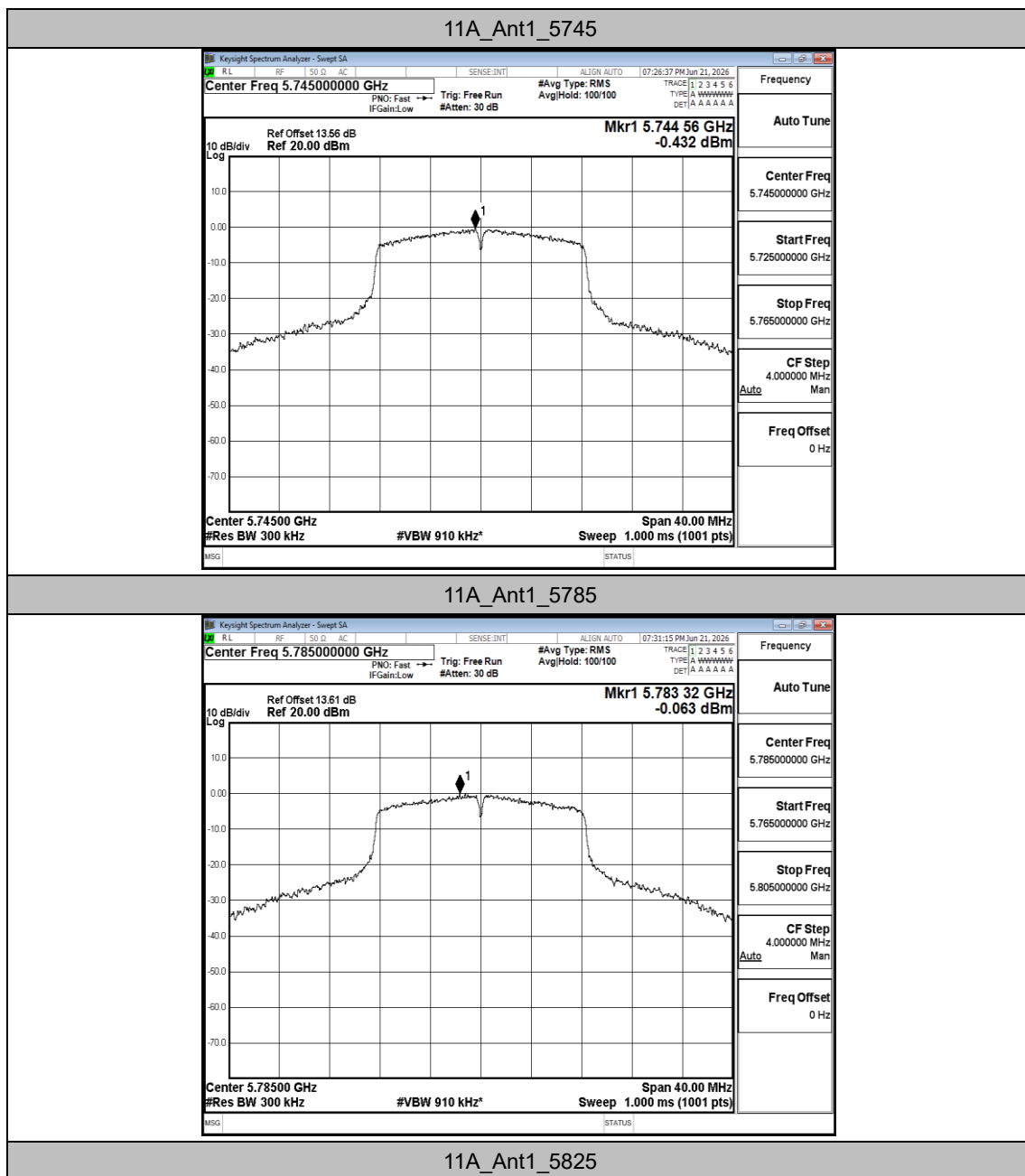
E.3 Maximum Power Spectral Density Level

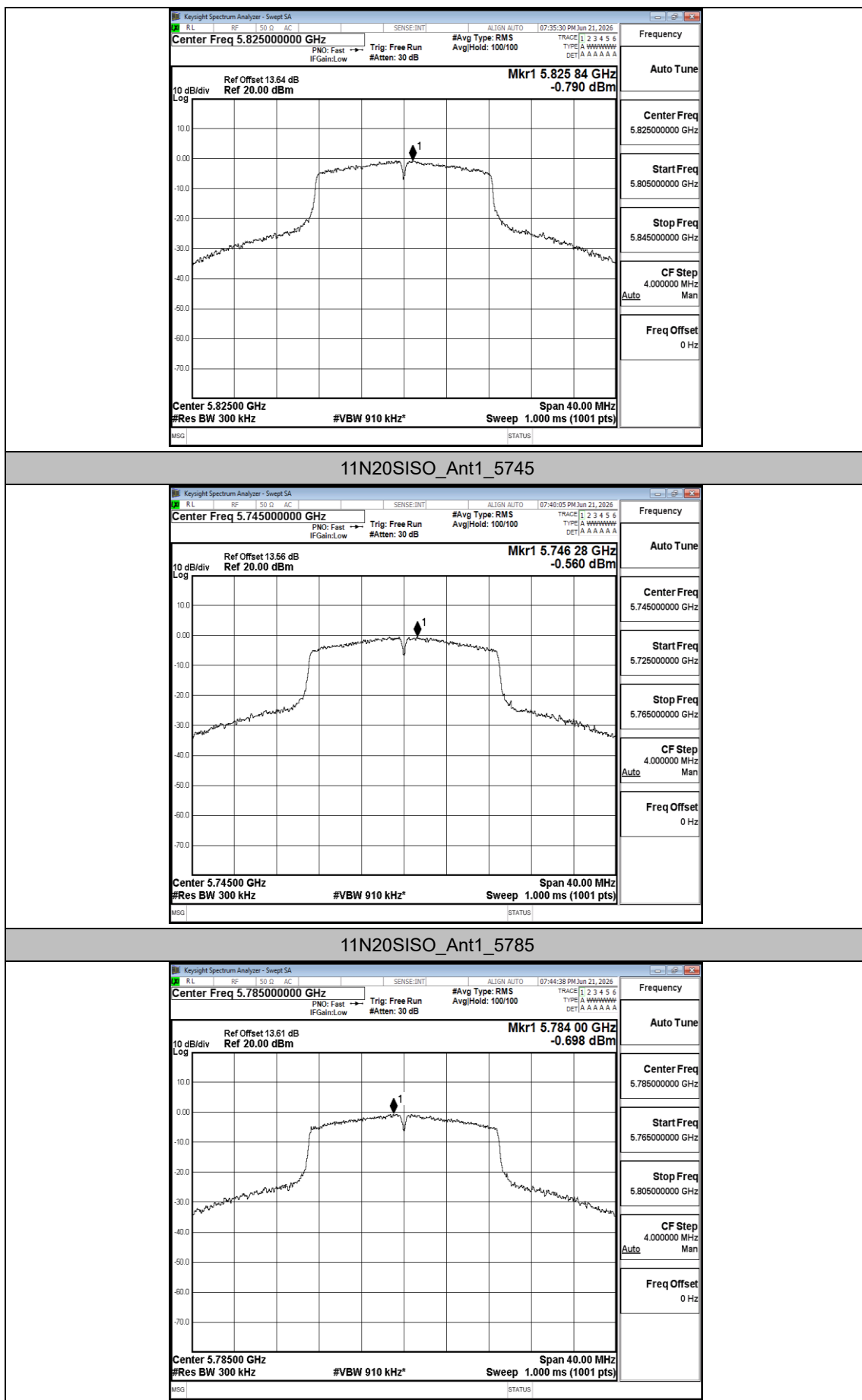
Test Result

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	-0.43	0.12	2.22	1.91	≤30.00	PASS
		5785	-0.06	0.15	2.22	2.31	≤30.00	PASS
		5825	-0.79	0.12	2.22	1.55	≤30.00	PASS
11N20SISO	Ant1	5745	-0.56	0.16	2.22	1.82	≤30.00	PASS
		5785	-0.7	0.13	2.22	1.65	≤30.00	PASS
		5825	-0.98	0.13	2.22	1.37	≤30.00	PASS
11N40SISO	Ant1	5755	-3.02	0.33	2.22	-0.47	≤30.00	PASS
		5795	-3.16	0.33	2.22	-0.61	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.48	0.13	2.22	1.87	≤30.00	PASS
		5785	-0.58	0.13	2.22	1.77	≤30.00	PASS
		5825	-0.62	0.13	2.22	1.73	≤30.00	PASS
11AC40SISO	Ant1	5755	-2.98	0.26	2.22	-0.50	≤30.00	PASS
		5795	-2.99	0.26	2.22	-0.51	≤30.00	PASS
11AX20SISO	Ant1	5745	-0.44	0.13	2.22	1.91	≤30.00	PASS
		5785	-0.86	0.13	2.22	1.49	≤30.00	PASS
		5825	-0.61	0.16	2.22	1.77	≤30.00	PASS
11AX40SISO	Ant1	5755	-2.93	0.32	2.22	-0.39	≤30.00	PASS
		5795	-3.22	0.32	2.22	-0.68	≤30.00	PASS

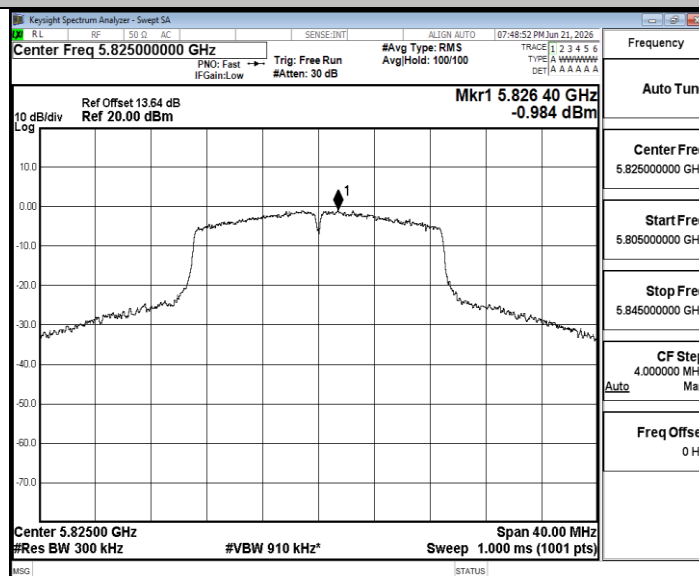
Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

Test Graphs

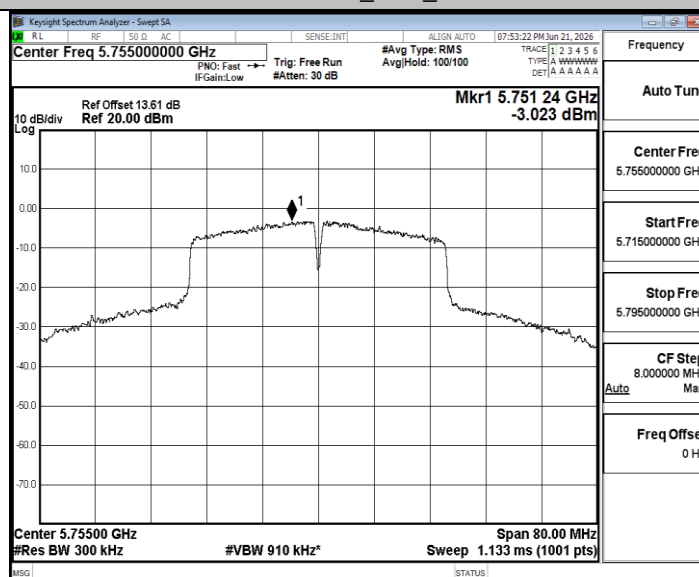




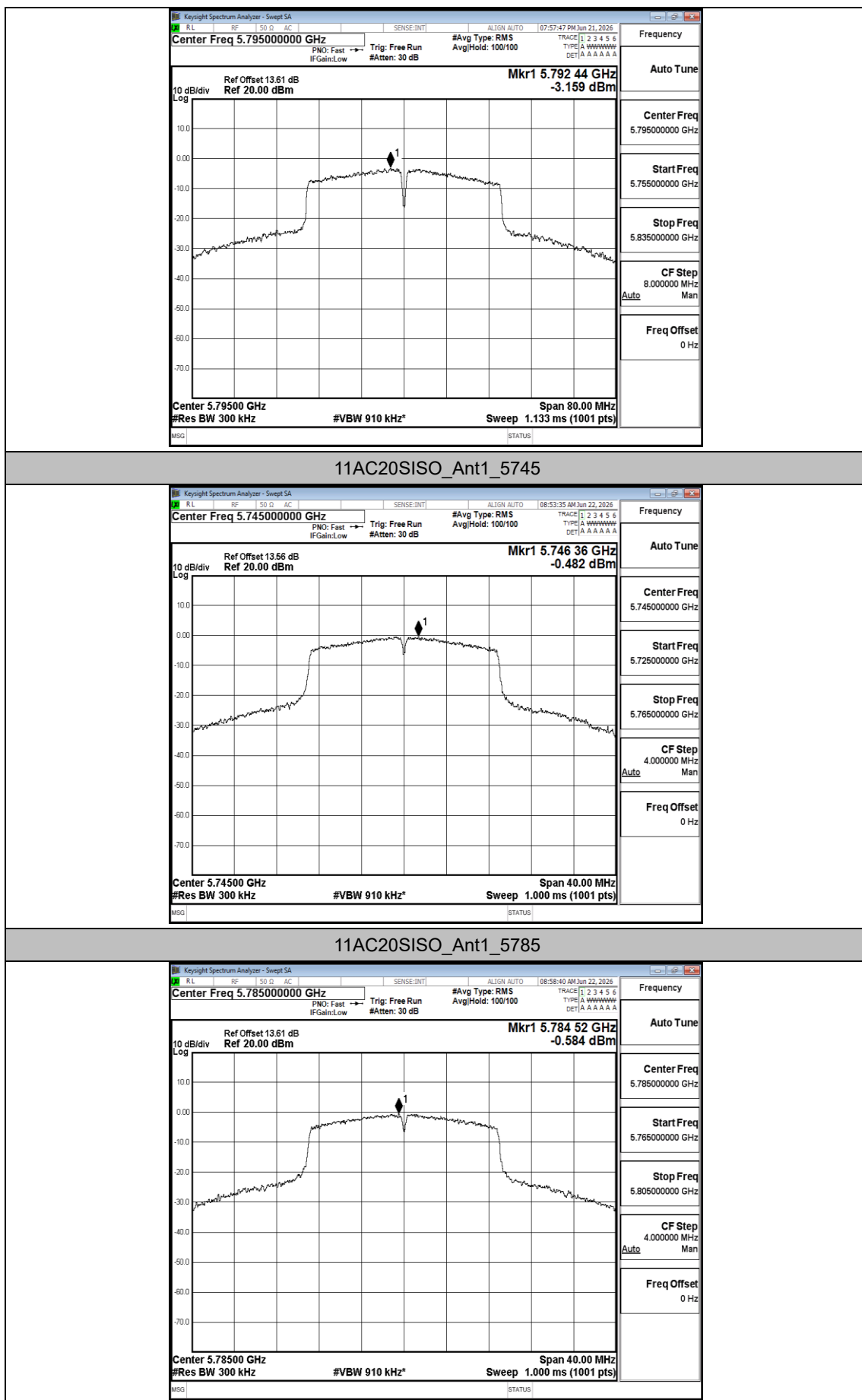
11N20SISO_Ant1_5825



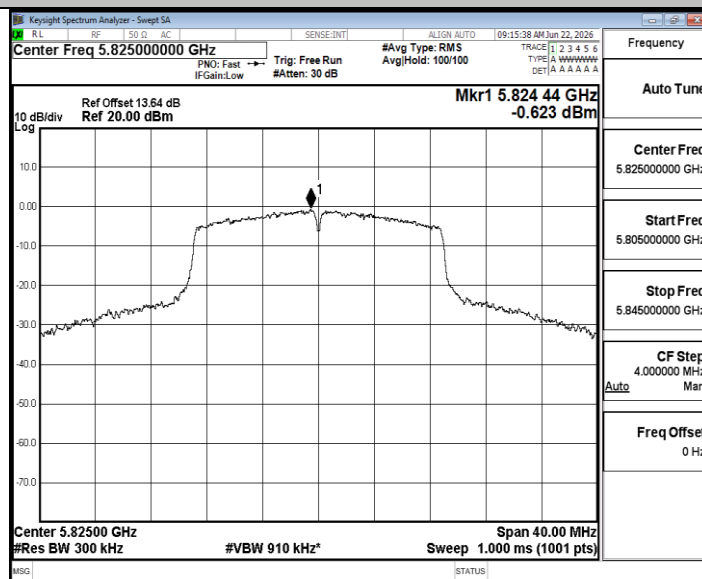
11N40SISO_Ant1_5755



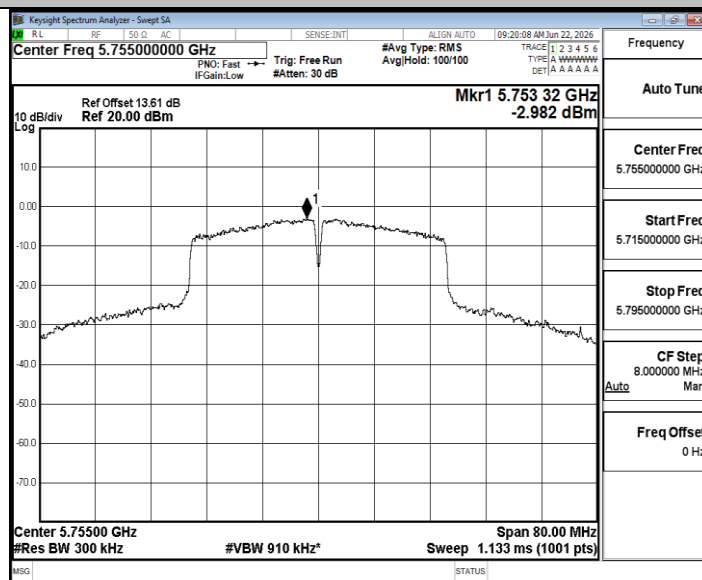
11N40SISO_Ant1_5795



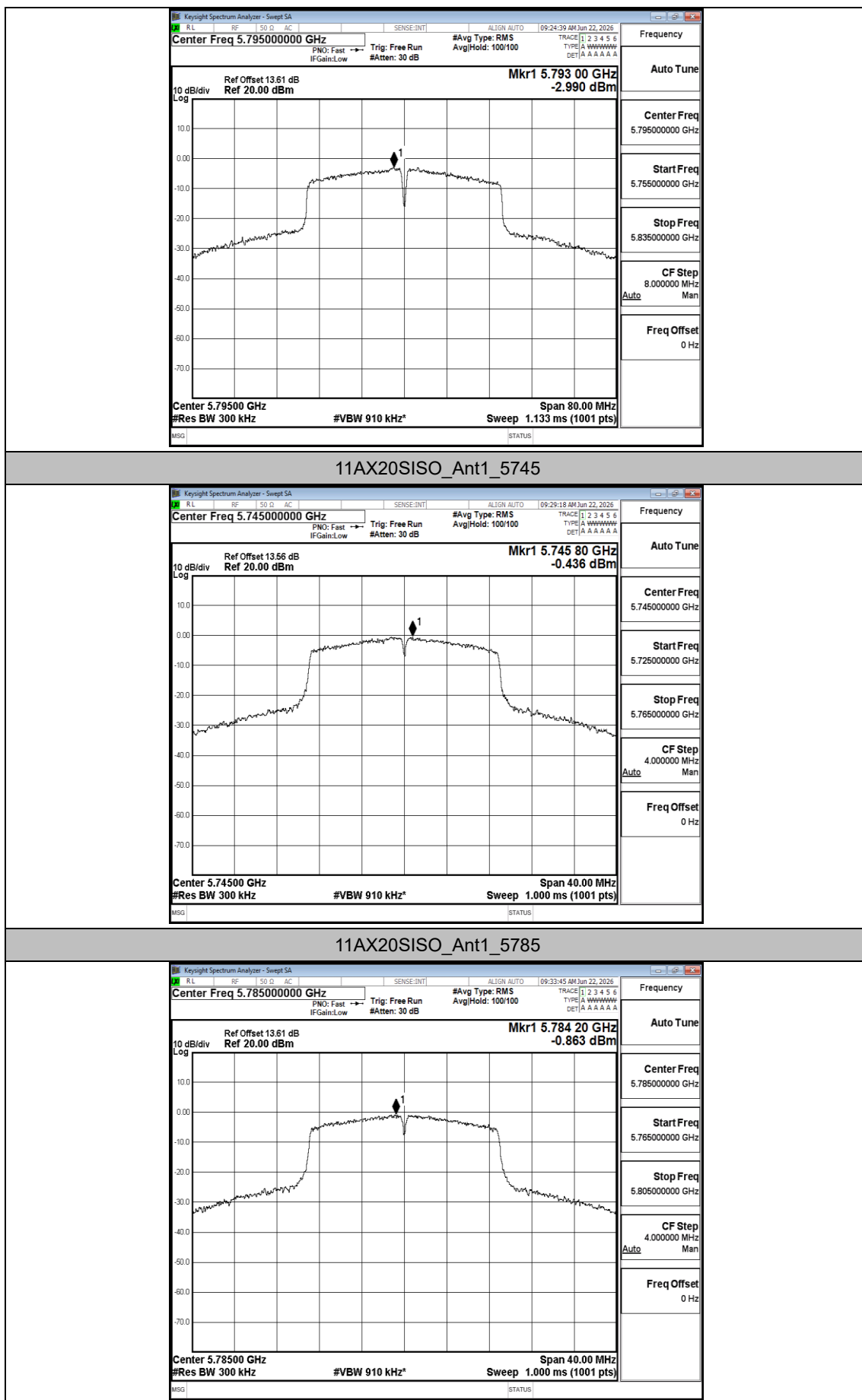
11AC20SISO_Ant1_5825



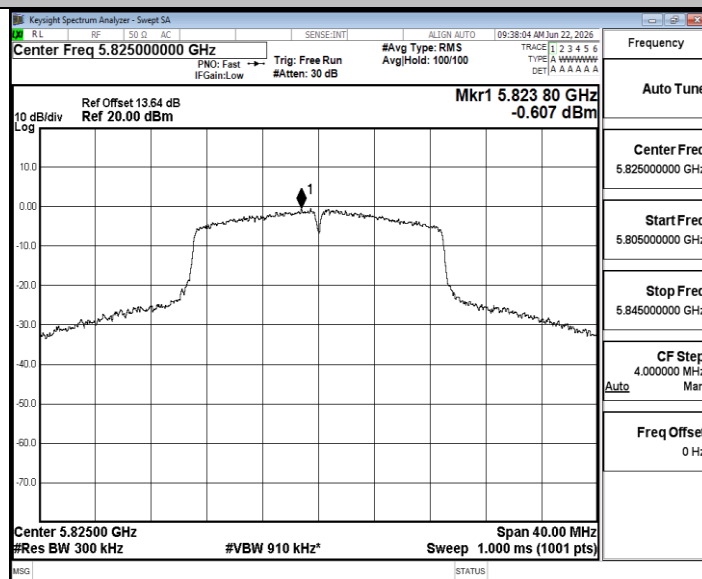
11AC40SISO_Ant1_5755



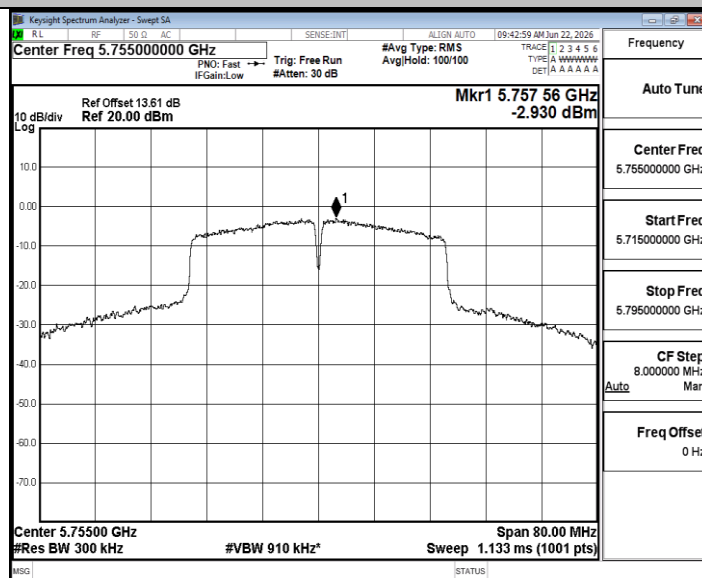
11AC40SISO_Ant1_5795



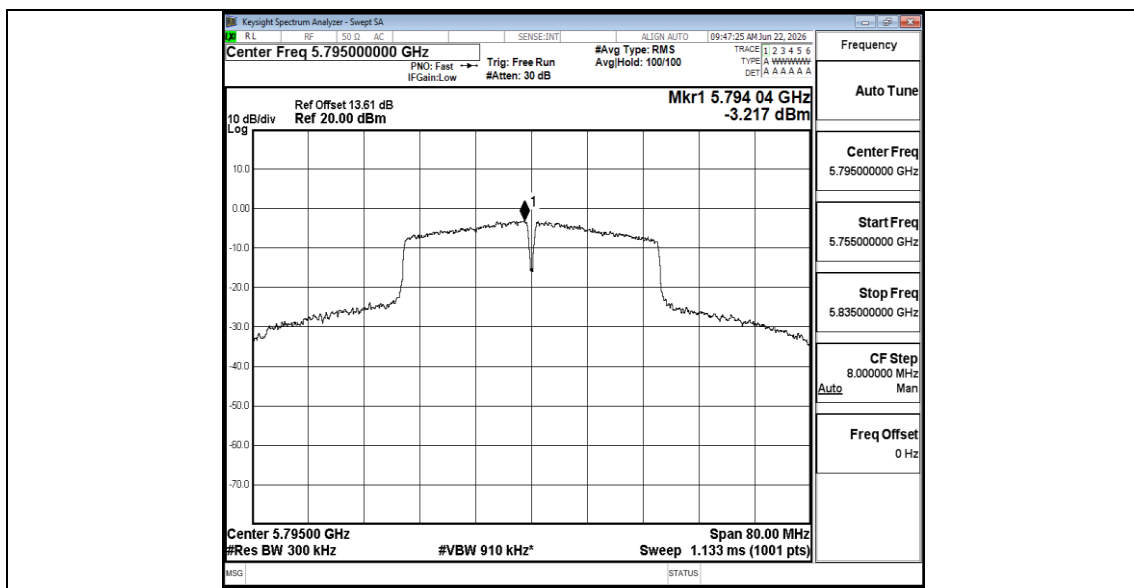
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



E.4 Emissions in Restricted Bands

Test Result

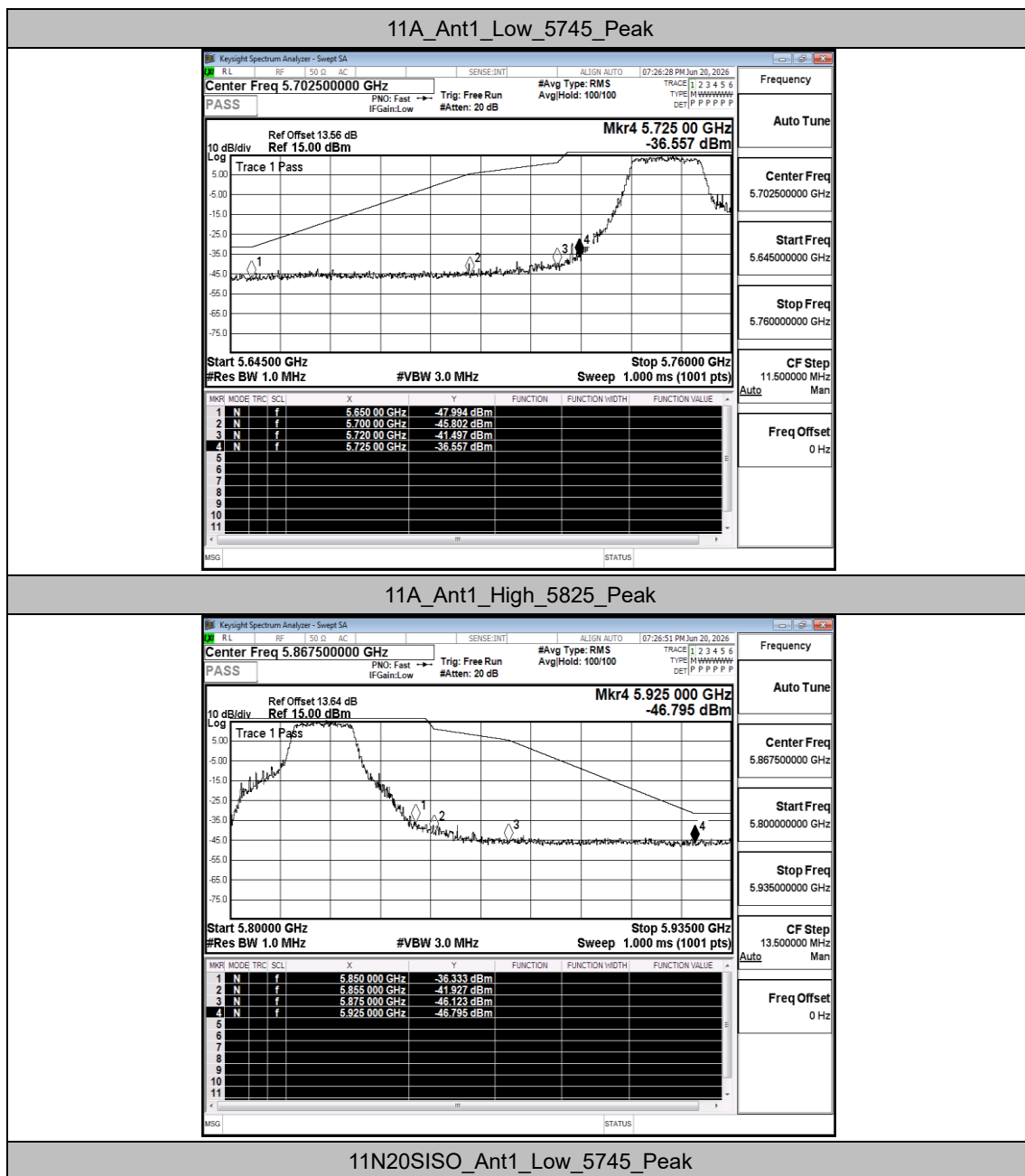
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-47.994	≤-31.57	3.62	PASS
				Peak	5700.000	-45.8	≤5.43	3.62	PASS
				Peak	5720.000	-41.5	≤11.03	3.62	PASS
				Peak	5725.000	-36.56	≤22.43	3.62	PASS
		High	5825	Peak	5850.000	-36.333	≤22.43	3.62	PASS
				Peak	5855.000	-41.93	≤11.03	3.62	PASS
				Peak	5875.000	-46.12	≤5.43	3.62	PASS
				Peak	5925.000	-46.8	≤-27.00	3.62	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-46.24	≤-31.57	3.62	PASS
				Peak	5700.000	-46.11	≤5.43	3.62	PASS
				Peak	5720.000	-43.87	≤11.03	3.62	PASS
				Peak	5725.000	-41.87	≤22.43	3.62	PASS
		High	5825	Peak	5850.000	-42.548	≤22.43	3.62	PASS
				Peak	5855.000	-43.61	≤11.03	3.62	PASS
				Peak	5875.000	-46.67	≤5.43	3.62	PASS
				Peak	5925.000	-46.54	≤-27.00	3.62	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-47.668	≤-31.57	3.62	PASS
				Peak	5700.000	-42.55	≤5.43	3.62	PASS
				Peak	5720.000	-40.52	≤11.03	3.62	PASS
				Peak	5725.000	-34.29	≤22.43	3.62	PASS
		High	5795	Peak	5850.000	-32.034	≤22.43	3.62	PASS
				Peak	5855.000	-35.11	≤11.03	3.62	PASS
				Peak	5875.000	-42.64	≤5.43	3.62	PASS
				Peak	5925.000	-46.82	≤-27.00	3.62	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-45.352	≤-31.57	3.62	PASS
				Peak	5700.000	-44.72	≤5.43	3.62	PASS
				Peak	5720.000	-43.39	≤11.03	3.62	PASS
				Peak	5725.000	-42.71	≤22.43	3.62	PASS
		High	5825	Peak	5850.000	-41.516	≤22.43	3.62	PASS
				Peak	5855.000	-43.54	≤11.03	3.62	PASS
				Peak	5875.000	-45.87	≤5.43	3.62	PASS
				Peak	5925.000	-47.21	≤-27.00	3.62	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-48.723	≤-31.57	3.62	PASS
				Peak	5700.000	-43.17	≤5.43	3.62	PASS
				Peak	5720.000	-39.53	≤11.03	3.62	PASS
				Peak	5725.000	-35.64	≤22.43	3.62	PASS
		High	5795	Peak	5850.000	-32.946	≤22.43	3.62	PASS

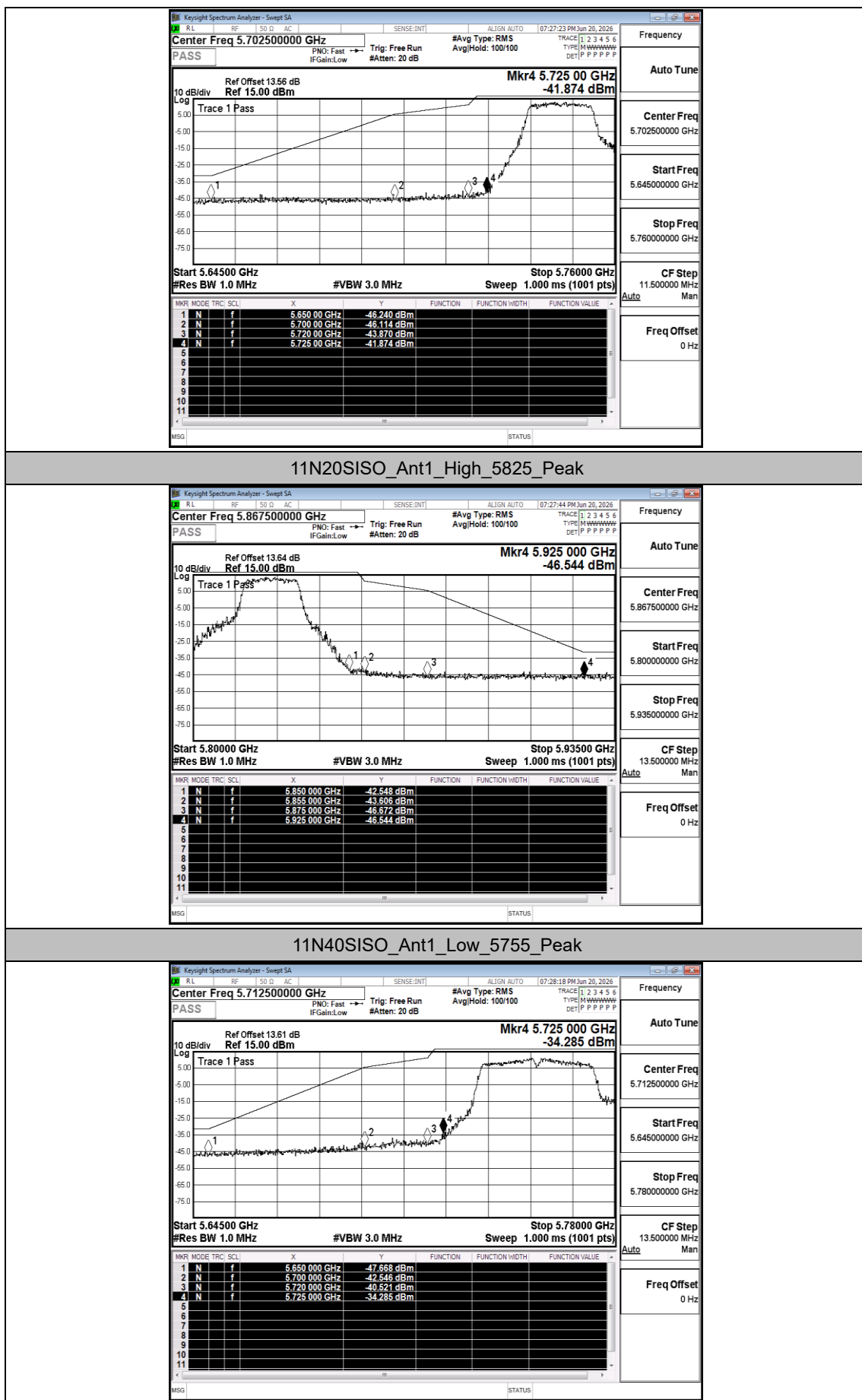
				Peak	5855.000	-40.23	≤11.03	3.62	PASS
				Peak	5875.000	-43.52	≤5.43	3.62	PASS
				Peak	5925.000	-46.35	≤-27.00	3.62	PASS
11AX20SISO	Ant1	Low	5745	Peak	5650.000	-46.782	≤-31.57	3.62	PASS
				Peak	5700.000	-46.24	≤5.43	3.62	PASS
				Peak	5720.000	-43.99	≤11.03	3.62	PASS
				Peak	5725.000	-40.71	≤22.43	3.62	PASS
		High	5825	Peak	5850.000	-42.537	≤22.43	3.62	PASS
				Peak	5855.000	-43.05	≤11.03	3.62	PASS
				Peak	5875.000	-47.26	≤5.43	3.62	PASS
				Peak	5925.000	-47.14	≤-27.00	3.62	PASS
11AX40SISO	Ant1	Low	5755	Peak	5650.000	-47.011	≤-31.57	3.62	PASS
				Peak	5700.000	-41.21	≤5.43	3.62	PASS
				Peak	5720.000	-40.1	≤11.03	3.62	PASS
				Peak	5725.000	-36.12	≤22.43	3.62	PASS
		High	5795	Peak	5850.000	-32.893	≤22.43	3.62	PASS
				Peak	5855.000	-30.85	≤11.03	3.62	PASS
				Peak	5875.000	-39.12	≤5.43	3.62	PASS
				Peak	5925.000	-47.55	≤-27.00	3.62	PASS

Note:

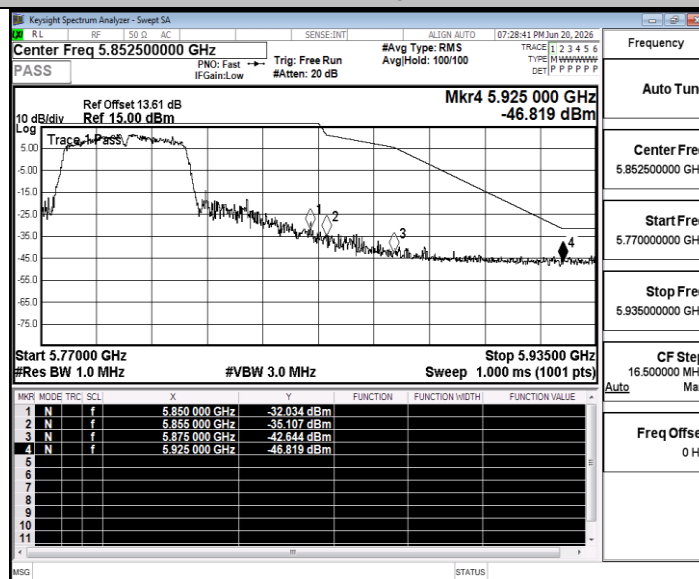
1. The Antenna Gain is compensated in the graph.

Test Graphs

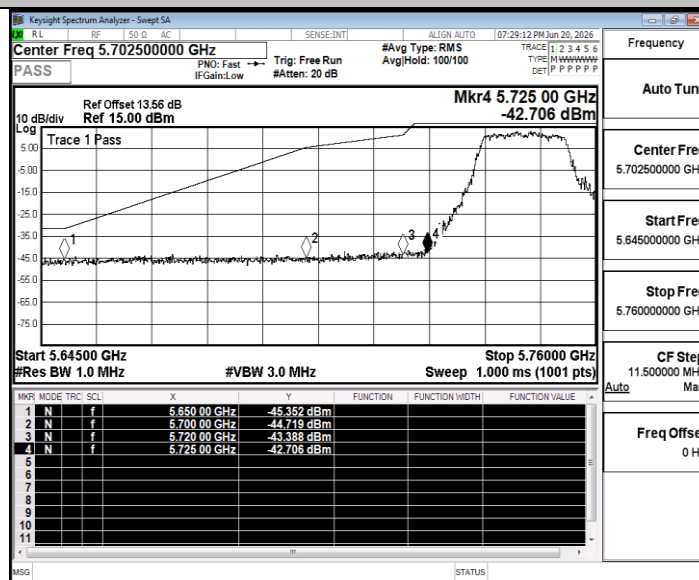




11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak



11AC20SISO_Ant1_High_5825_Peak