

Appendix D

RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: Network Player

Test Model: 9000NQ

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

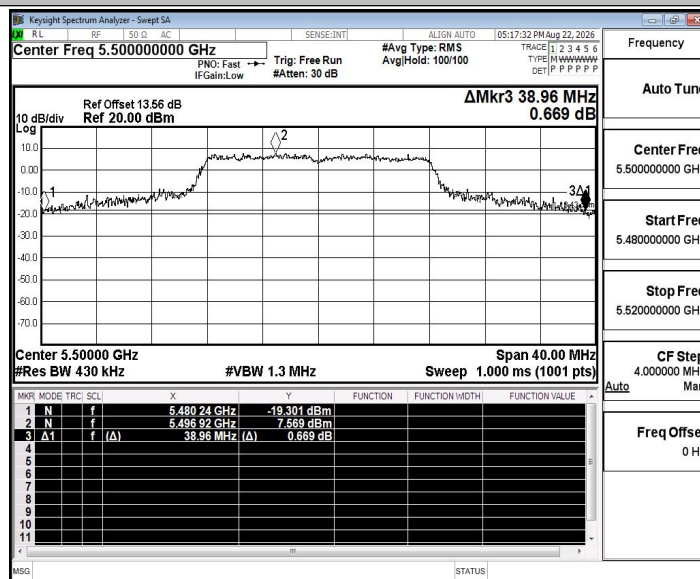
D.1 26dB Emission Bandwidth

Test Result

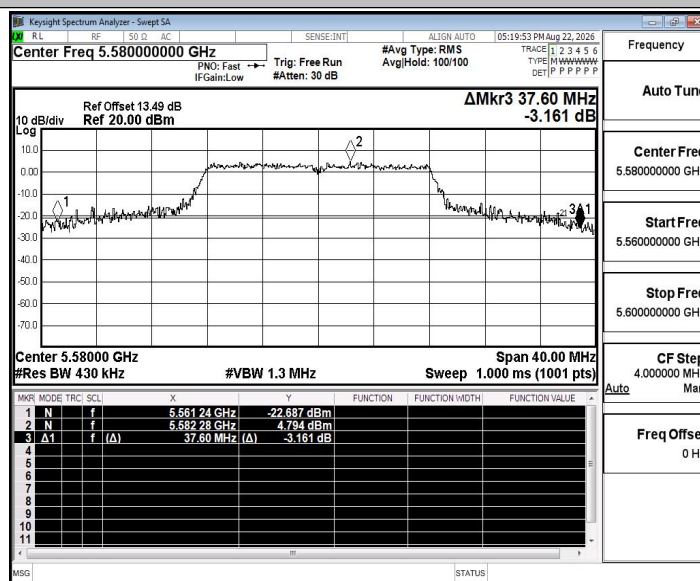
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	38.960	5480.240	5519.200	---	---
		5580	37.600	5561.240	5598.840	---	---
		5700	37.680	5682.120	5719.800	---	---
11N20SISO	Ant1	5500	35.560	5482.640	5518.200	---	---
		5580	39.800	5560.000	5599.800	---	---
		5700	39.520	5680.280	5719.800	---	---
11N40SISO	Ant1	5510	76.560	5470.080	5546.640	---	---
		5550	75.120	5511.600	5586.720	---	---
		5670	78.720	5630.320	5709.040	---	---
11AC20SISO	Ant1	5500	35.960	5480.760	5516.720	---	---
		5580	38.920	5560.040	5598.960	---	---
		5700	39.040	5680.760	5719.800	---	---
11AC40SISO	Ant1	5510	76.960	5470.640	5547.600	---	---
		5550	75.120	5512.320	5587.440	---	---
		5670	77.120	5630.560	5707.680	---	---
11AC80SISO	Ant1	5530	151.680	5455.760	5607.440	---	---
		5610	147.520	5530.160	5677.680	---	---

Test Graphs

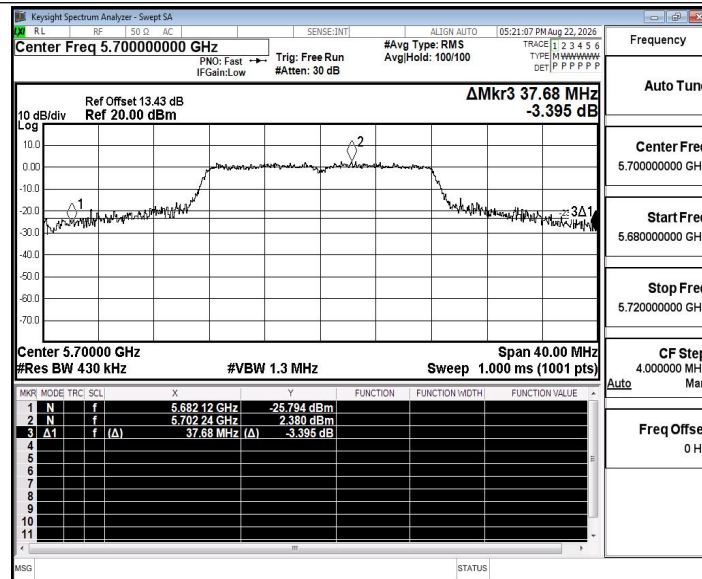
11A_Ant1_5500



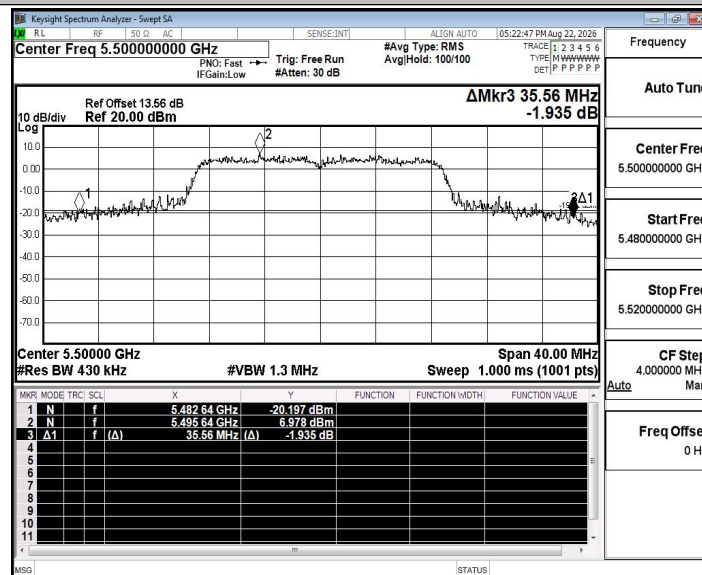
11A_Ant1_5580



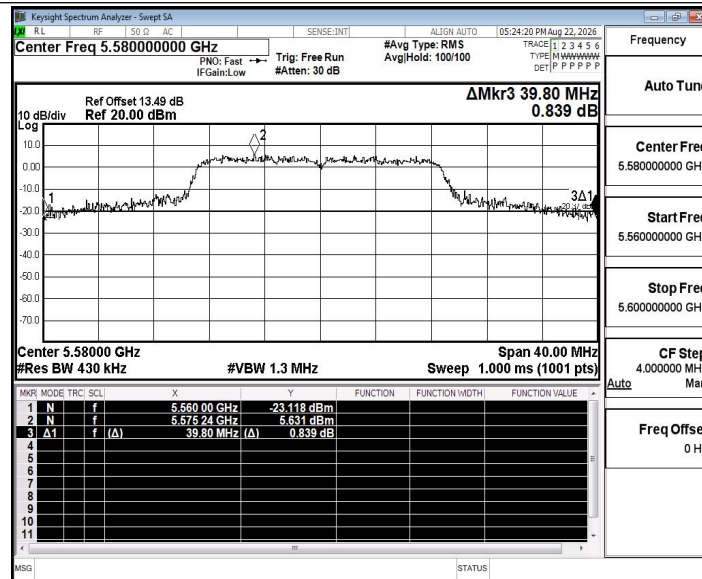
11A_Ant1_5700



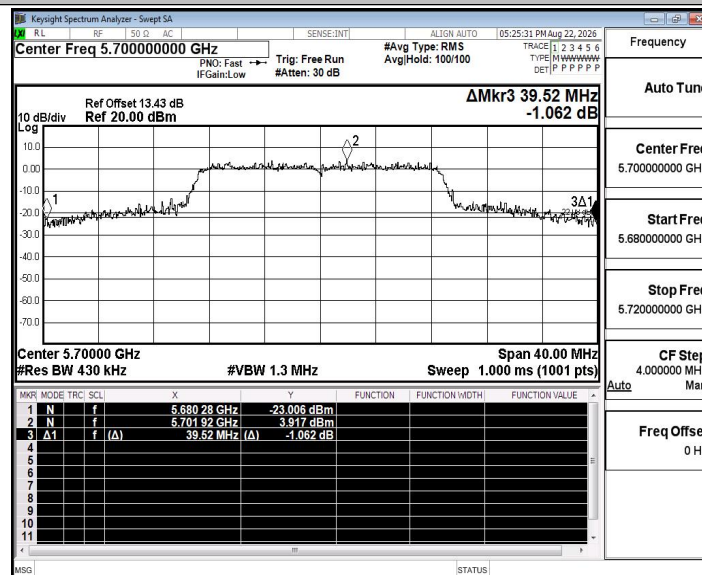
11N20SISO_Ant1_5500



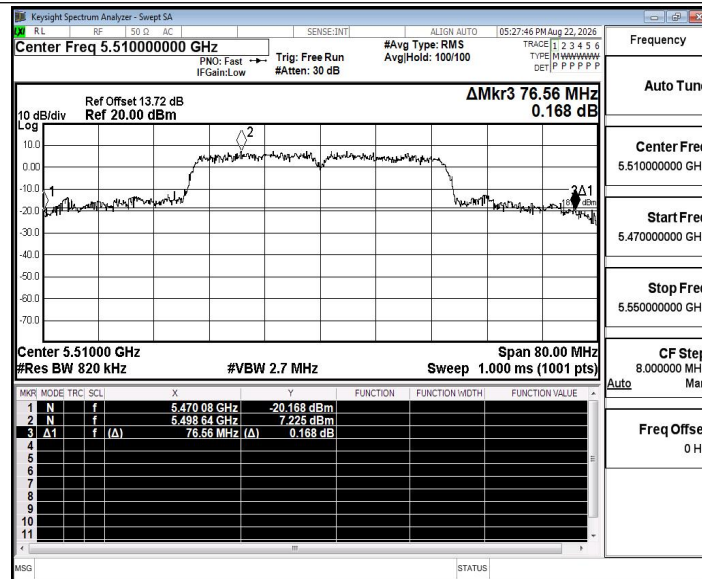
11N20SISO_Ant1_5580



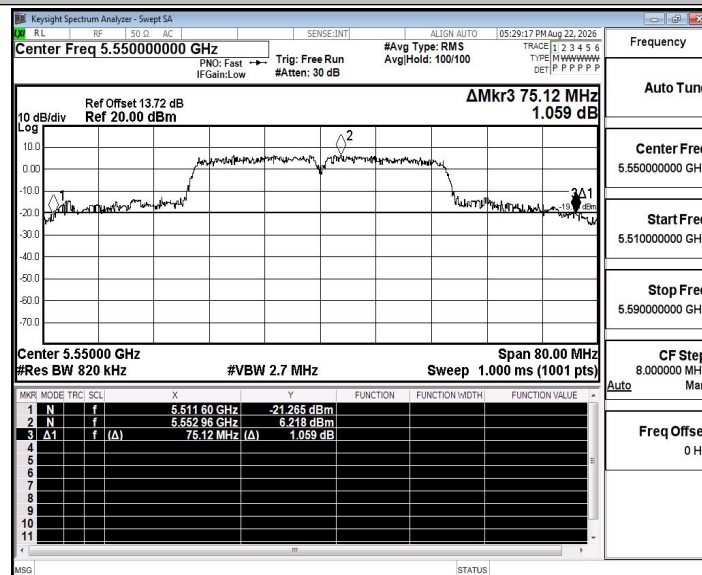
11N20SISO_Ant1_5700



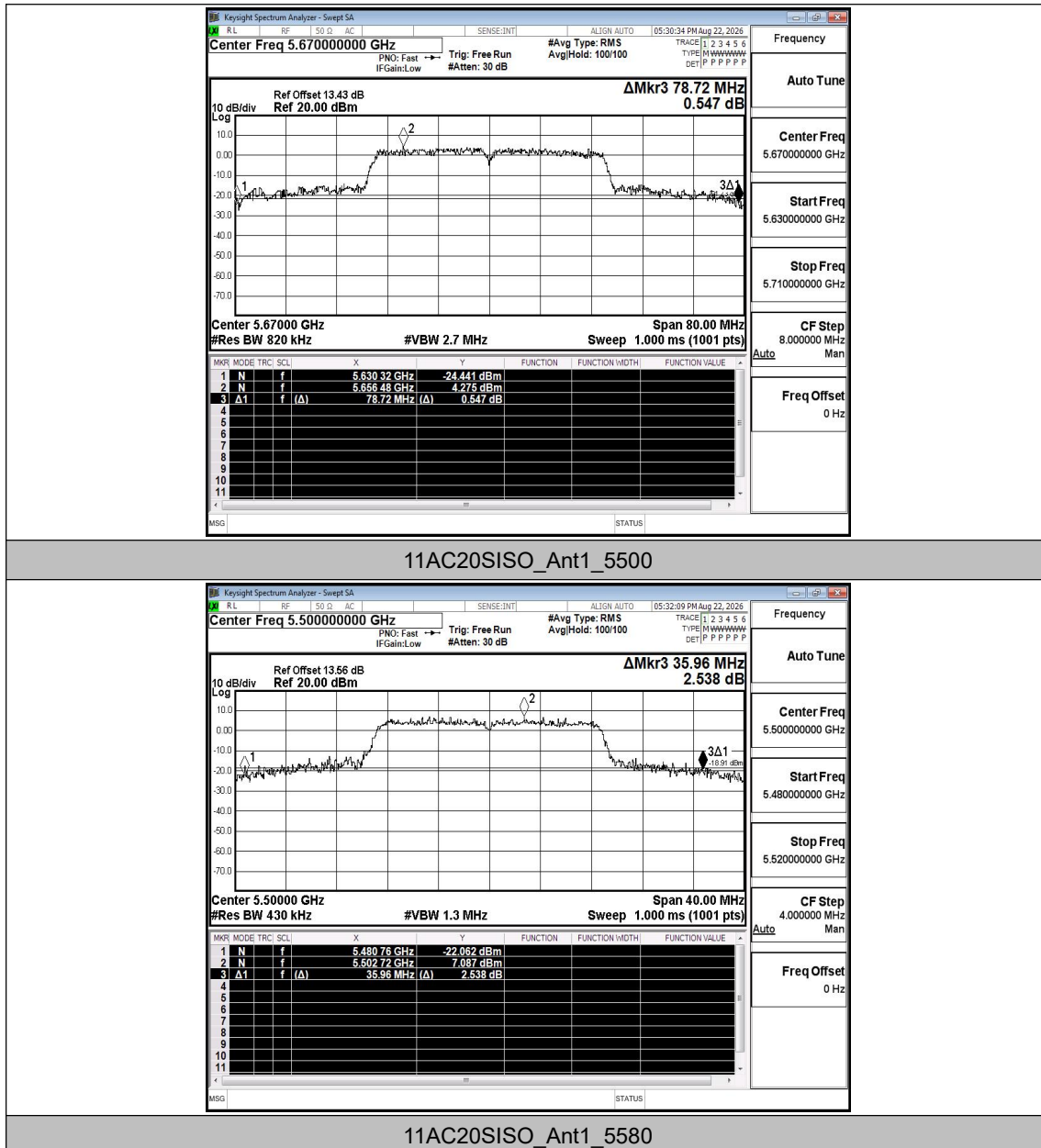
11N40SISO_Ant1_5510

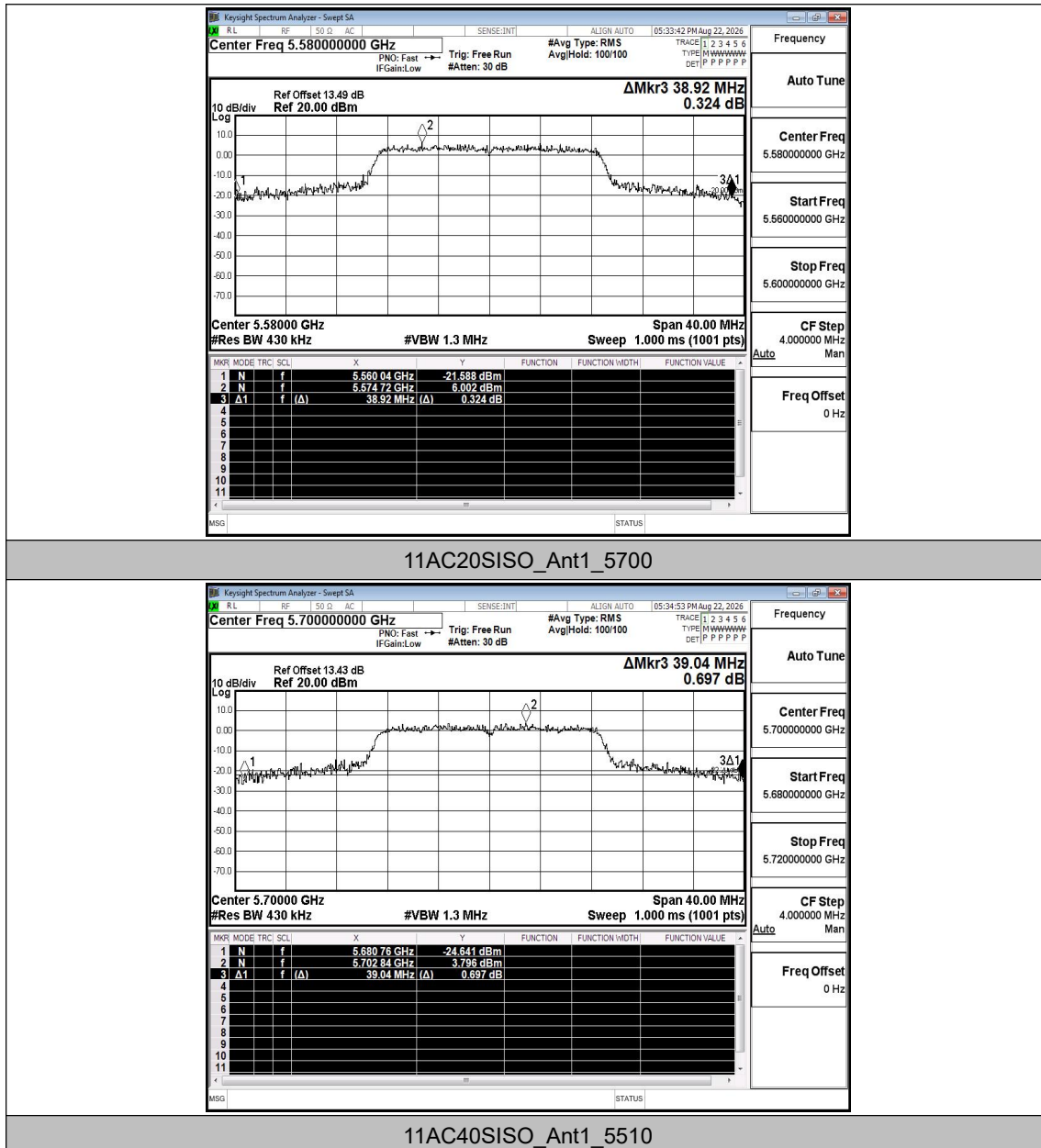


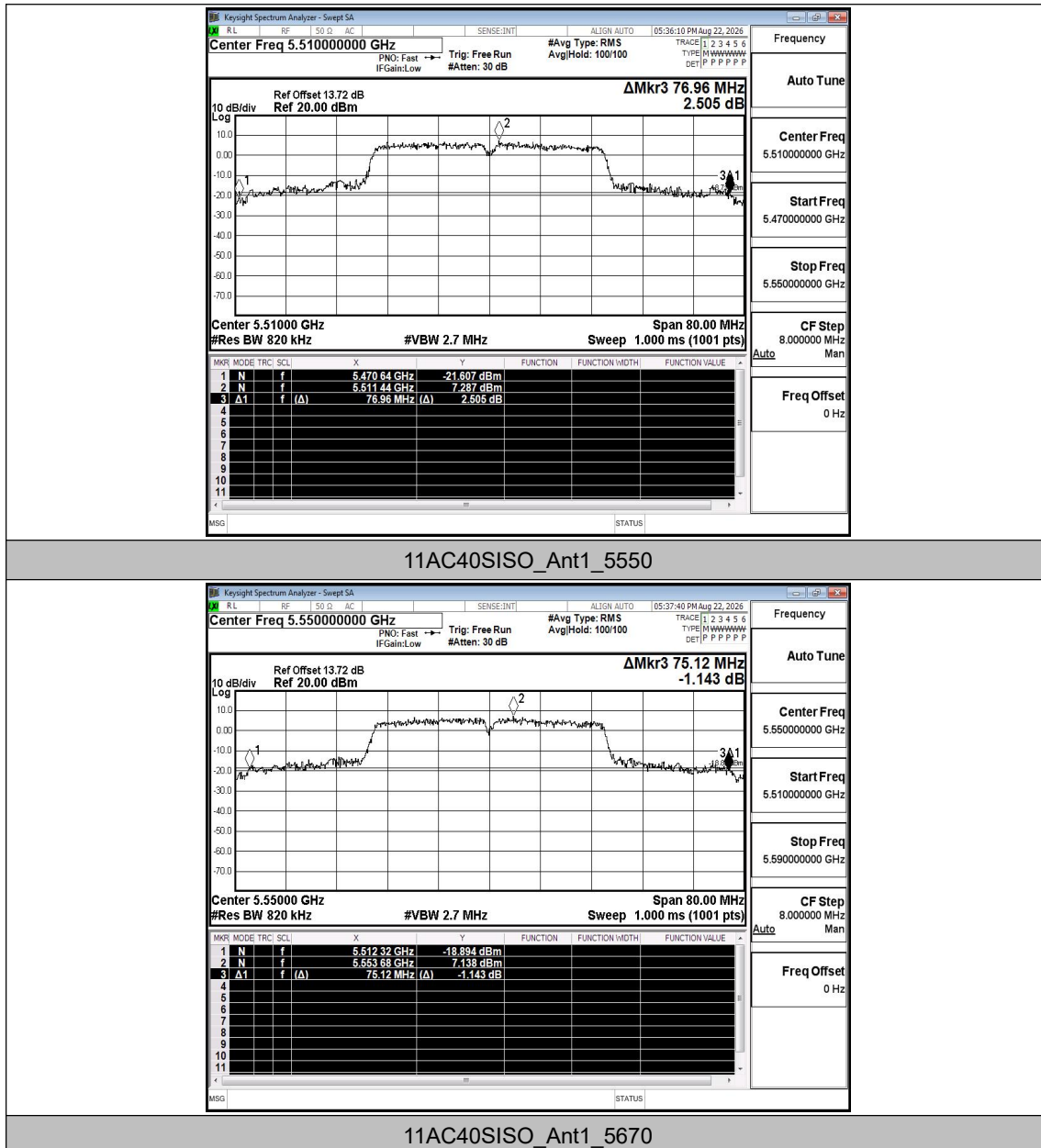
11N40SISO_Ant1_5550

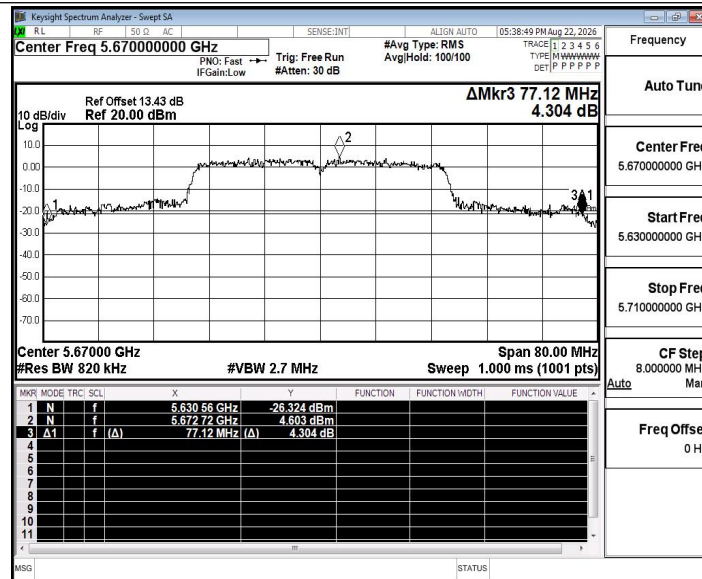


11N40SISO_Ant1_5670

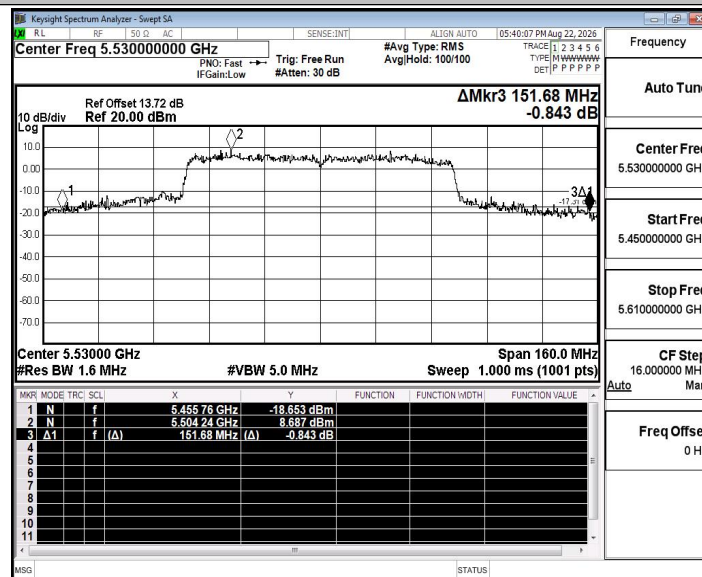




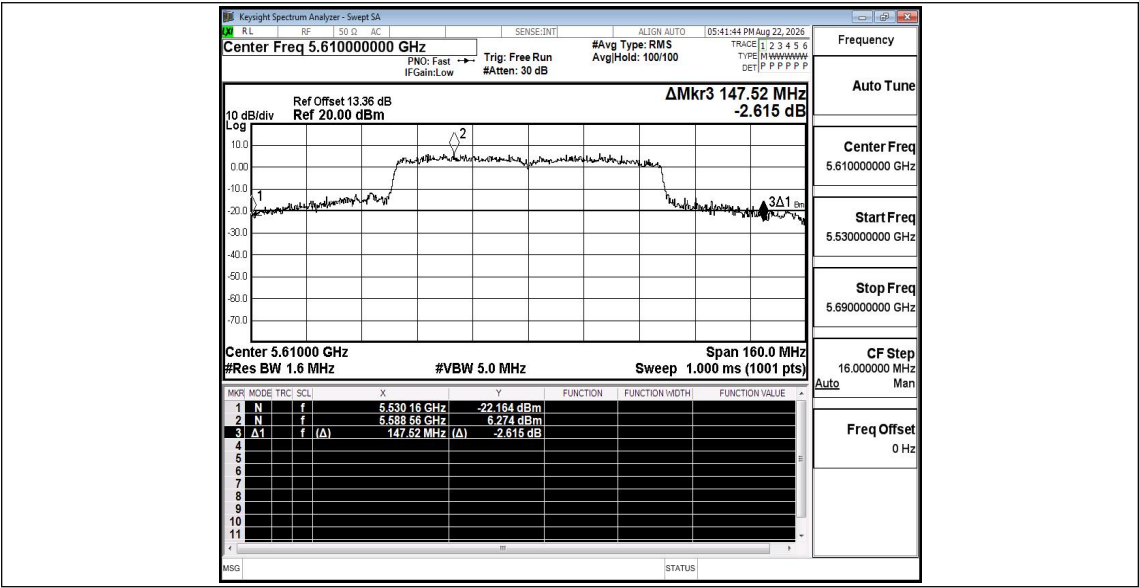




11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



D.2 Maximum conducted output power

Test Result

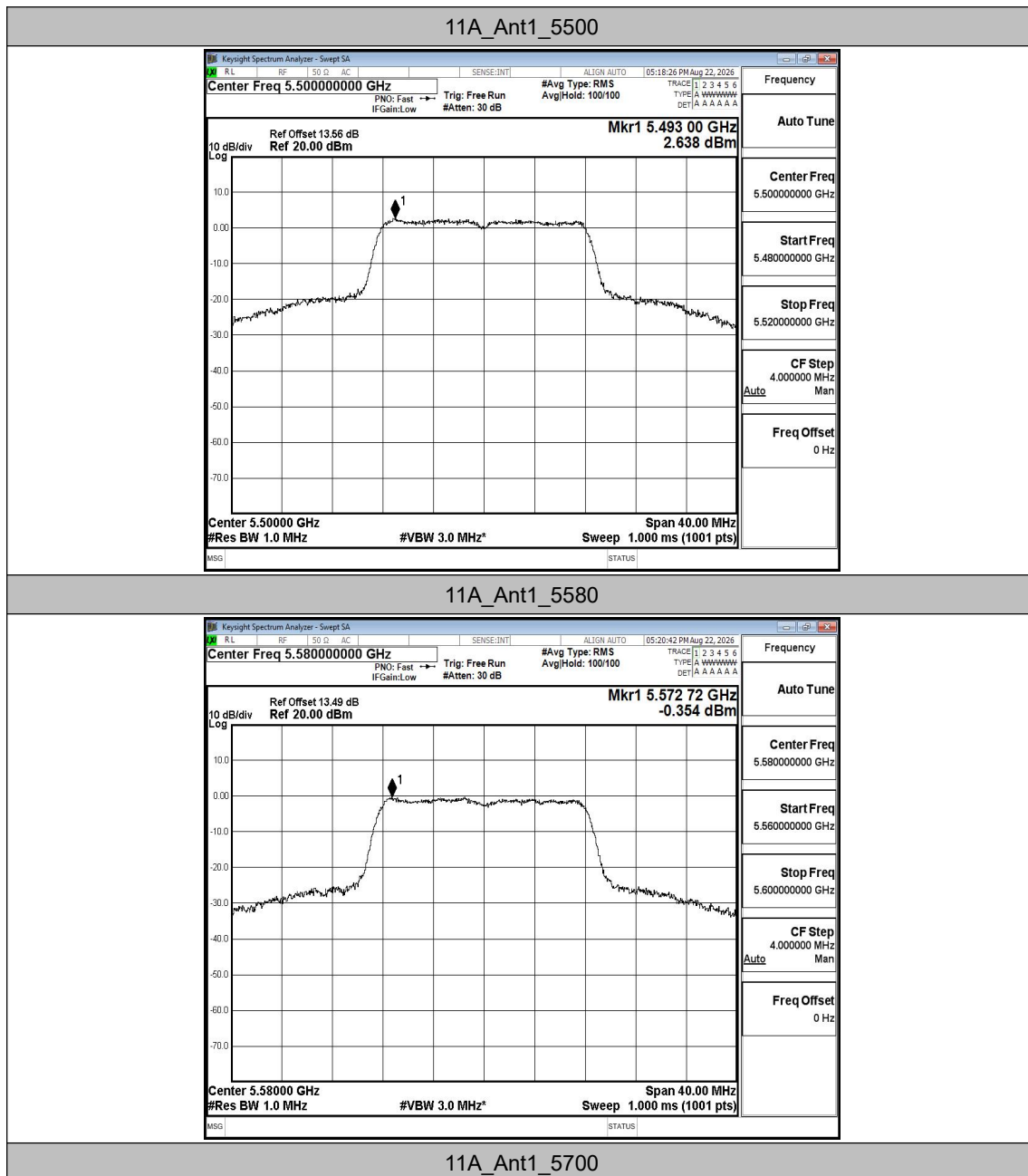
Test Mode	Antenna	Freq(MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	NA	14.55	2.14	16.69	≤24	PASS
		5580	NA	11.80	2.14	13.94	≤24	PASS
		5700	NA	10.50	1.76	12.26	≤24	PASS
11N20SISO	Ant1	5500	NA	13.46	2.14	15.60	≤24	PASS
		5580	NA	12.46	1.76	14.22	≤24	PASS
		5700	NA	11.24	1.76	13.00	≤24	PASS
11N40SISO	Ant1	5510	NA	12.16	2.69	14.85	≤24	PASS
		5550	NA	11.56	2.43	13.99	≤24	PASS
		5670	NA	10.45	3.01	13.46	≤24	PASS
11AC20SISO	Ant1	5500	NA	13.47	1.65	15.12	≤24	PASS
		5580	NA	12.48	1.65	14.13	≤24	PASS
		5700	NA	11.24	2.00	13.24	≤24	PASS
11AC40SISO	Ant1	5510	NA	12.61	2.73	15.34	≤24	PASS
		5550	NA	11.66	2.22	13.88	≤24	PASS
		5670	NA	10.57	2.73	13.30	≤24	PASS
11AC80SISO	Ant1	5530	NA	11.93	3.01	14.94	≤24	PASS
		5610	NA	10.66	3.01	13.67	≤24	PASS

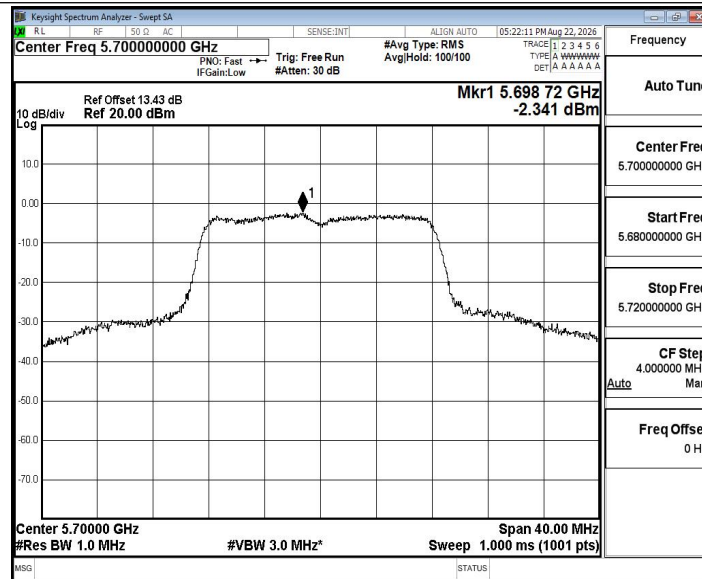
D.3 Maximum power spectral density

Test Result

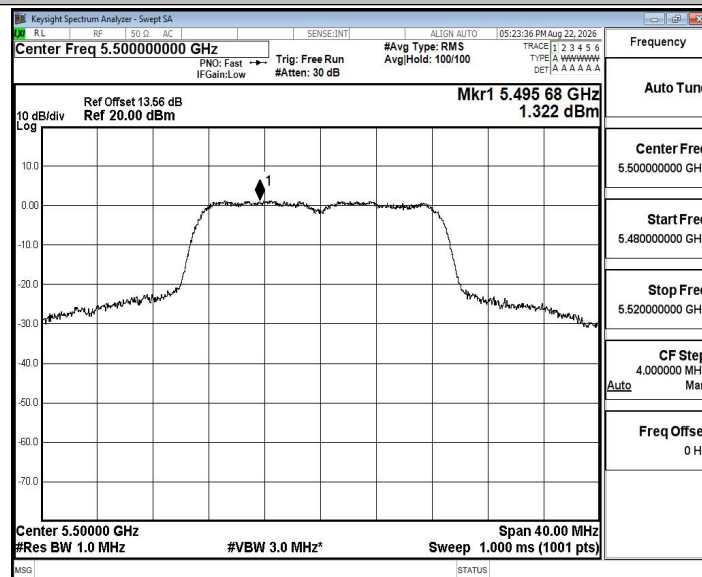
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5500	2.64	2.14	4.78	≤11.00	PASS
		5580	-0.35	2.14	1.79	≤11.00	PASS
		5700	-2.34	1.76	-0.58	≤11.00	PASS
11N20SISO	Ant1	5500	1.32	2.14	3.46	≤11.00	PASS
		5580	0.42	1.76	2.18	≤11.00	PASS
		5700	-1.89	1.76	-0.13	≤11.00	PASS
11N40SISO	Ant1	5510	-2.36	2.69	0.33	≤11.00	PASS
		5550	-2.36	2.43	0.07	≤11.00	PASS
		5670	-5.32	3.01	-2.31	≤11.00	PASS
11AC20SISO	Ant1	5500	1.24	1.65	2.89	≤11.00	PASS
		5580	0	1.65	1.65	≤11.00	PASS
		5700	-1.75	2.00	0.25	≤11.00	PASS
11AC40SISO	Ant1	5510	-1.74	2.73	0.99	≤11.00	PASS
		5550	-2.66	2.22	-0.44	≤11.00	PASS
		5670	-4.5	2.73	-1.77	≤11.00	PASS
11AC80SISO	Ant1	5530	-4.29	3.01	-1.28	≤11.00	PASS
		5610	-6.44	3.01	-3.43	≤11.00	PASS

Test Graphs

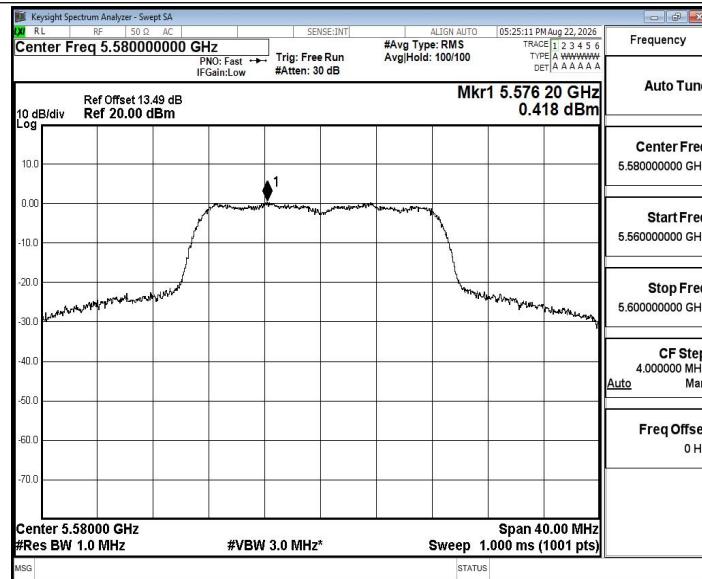




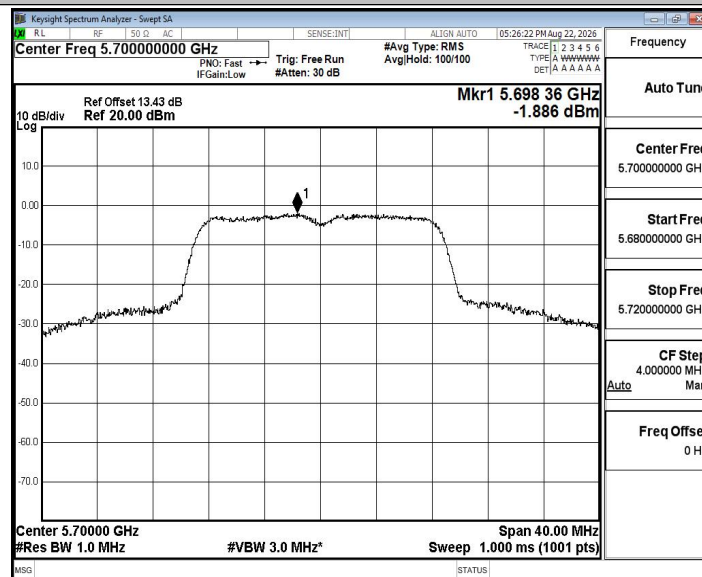
11N20SISO_Ant1_5500



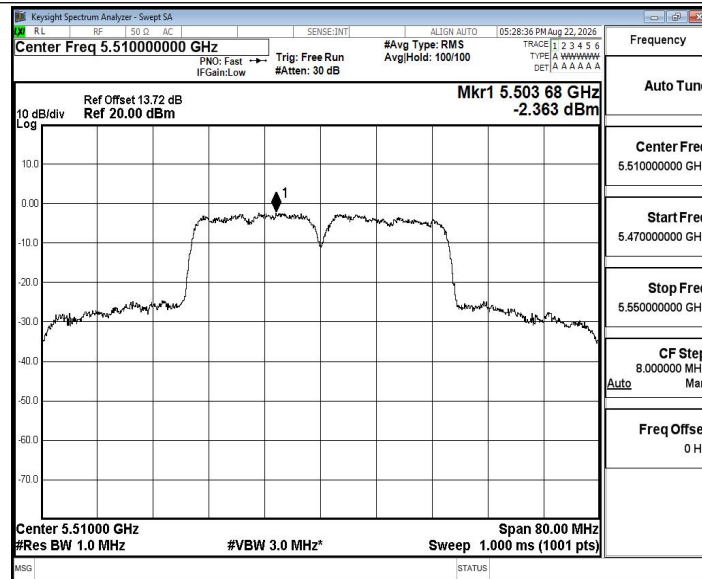
11N20SISO_Ant1_5580



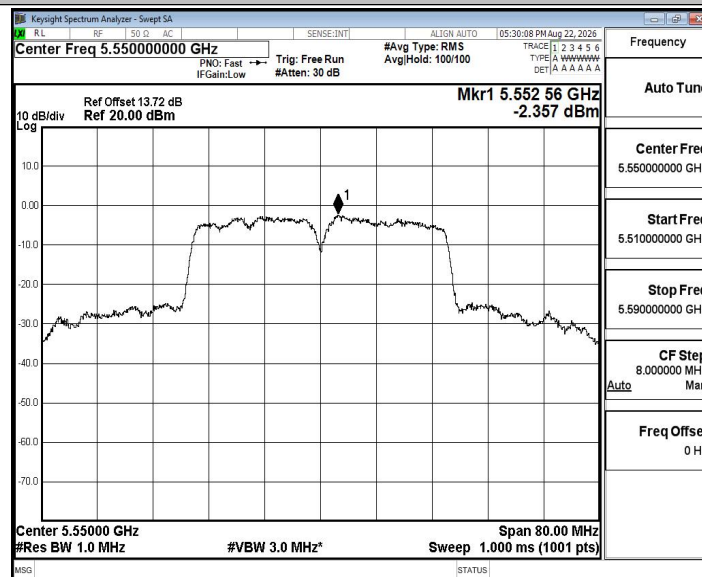
11N20SISO_Ant1_5700



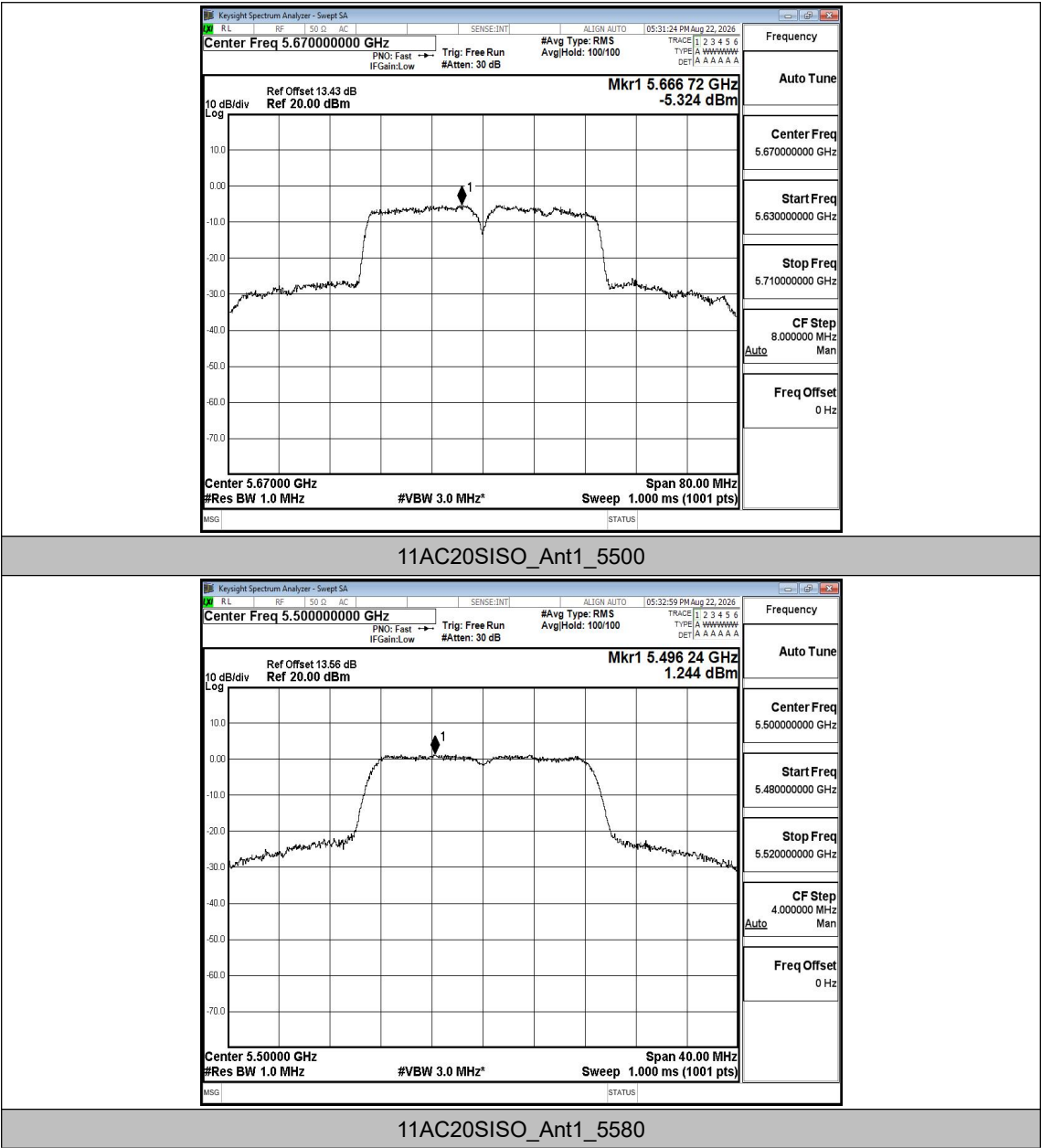
11N40SISO_Ant1_5510

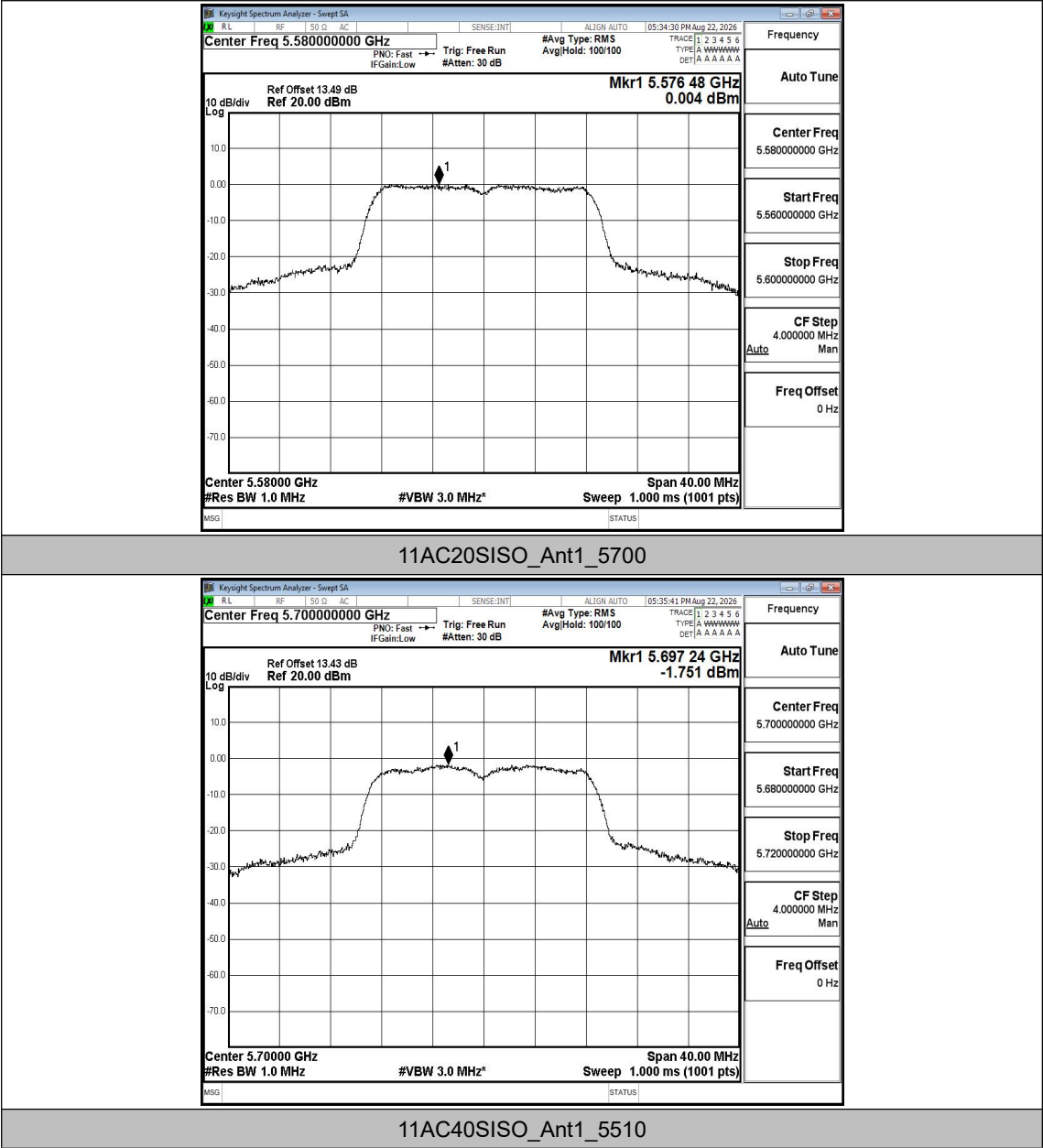


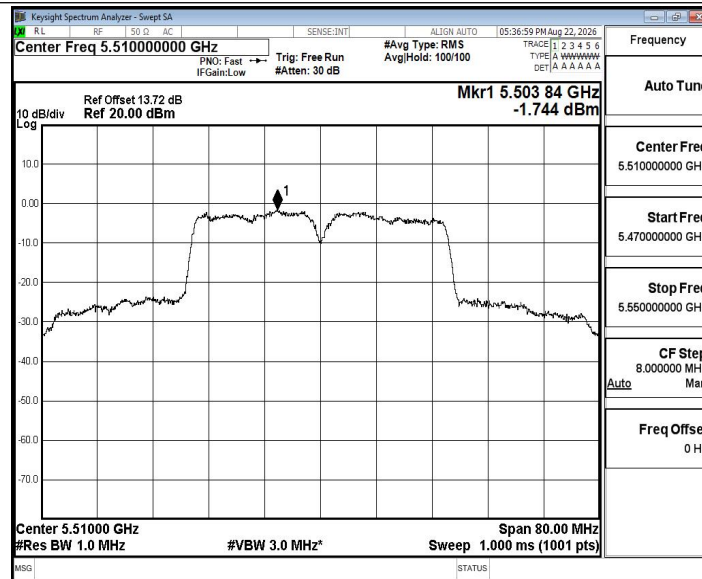
11N40SISO_Ant1_5550



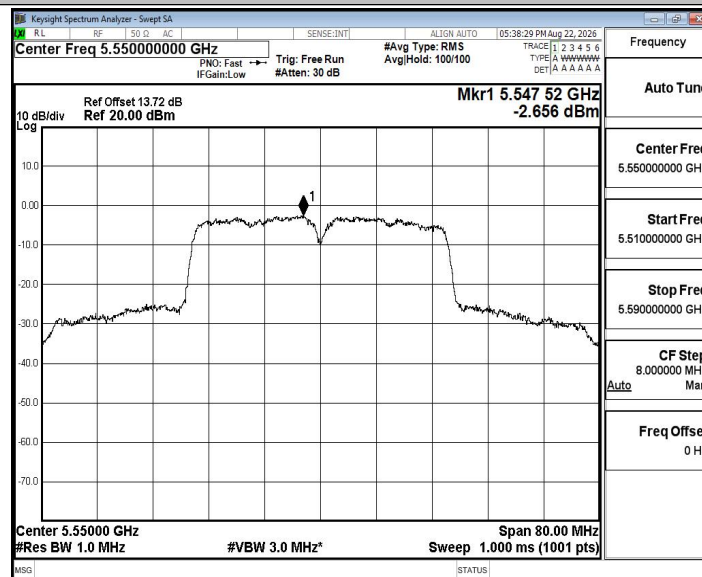
11N40SISO_Ant1_5670



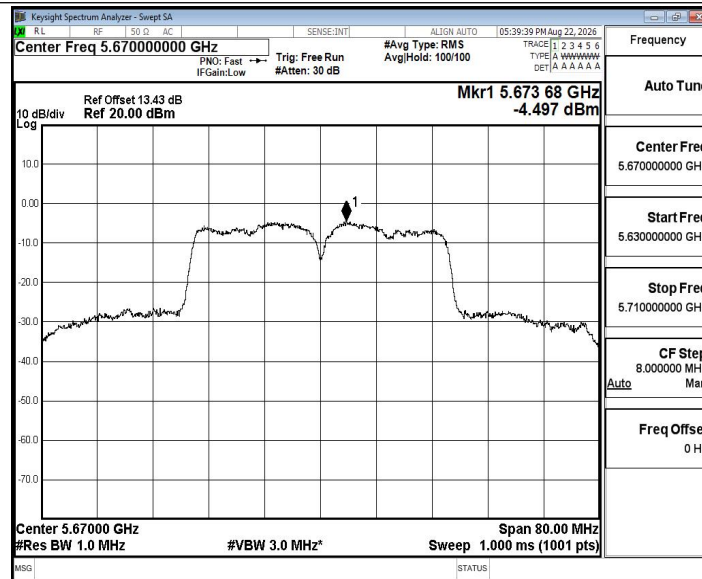




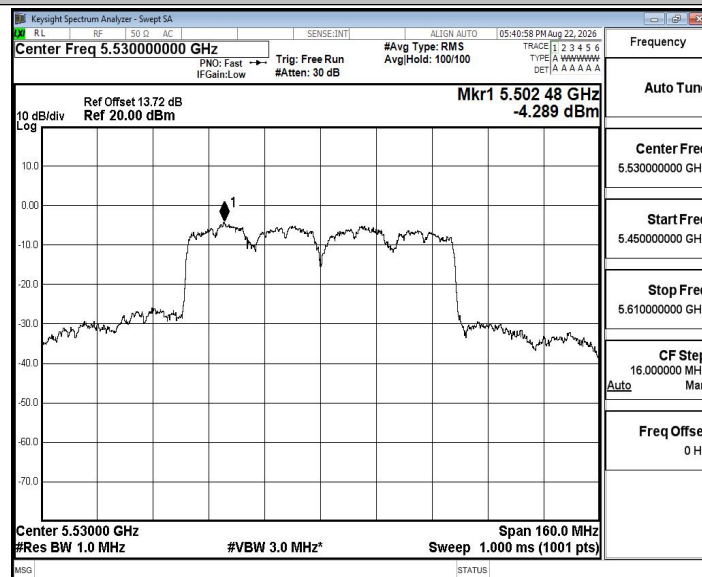
11AC40SISO_Ant1_5550



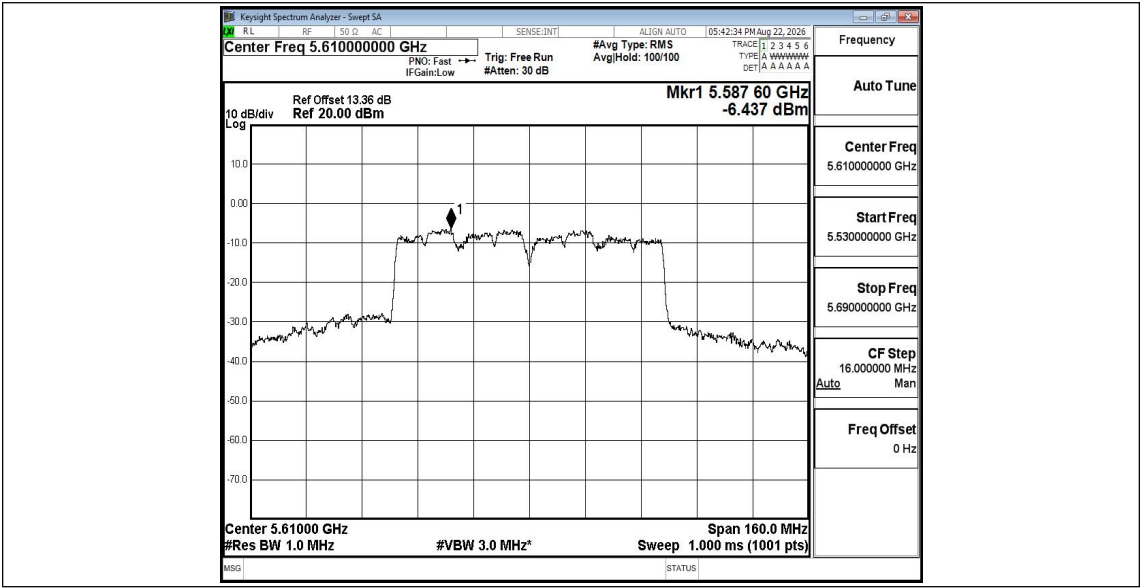
11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



D.4 Emissions in Restricted Bands

Test Result

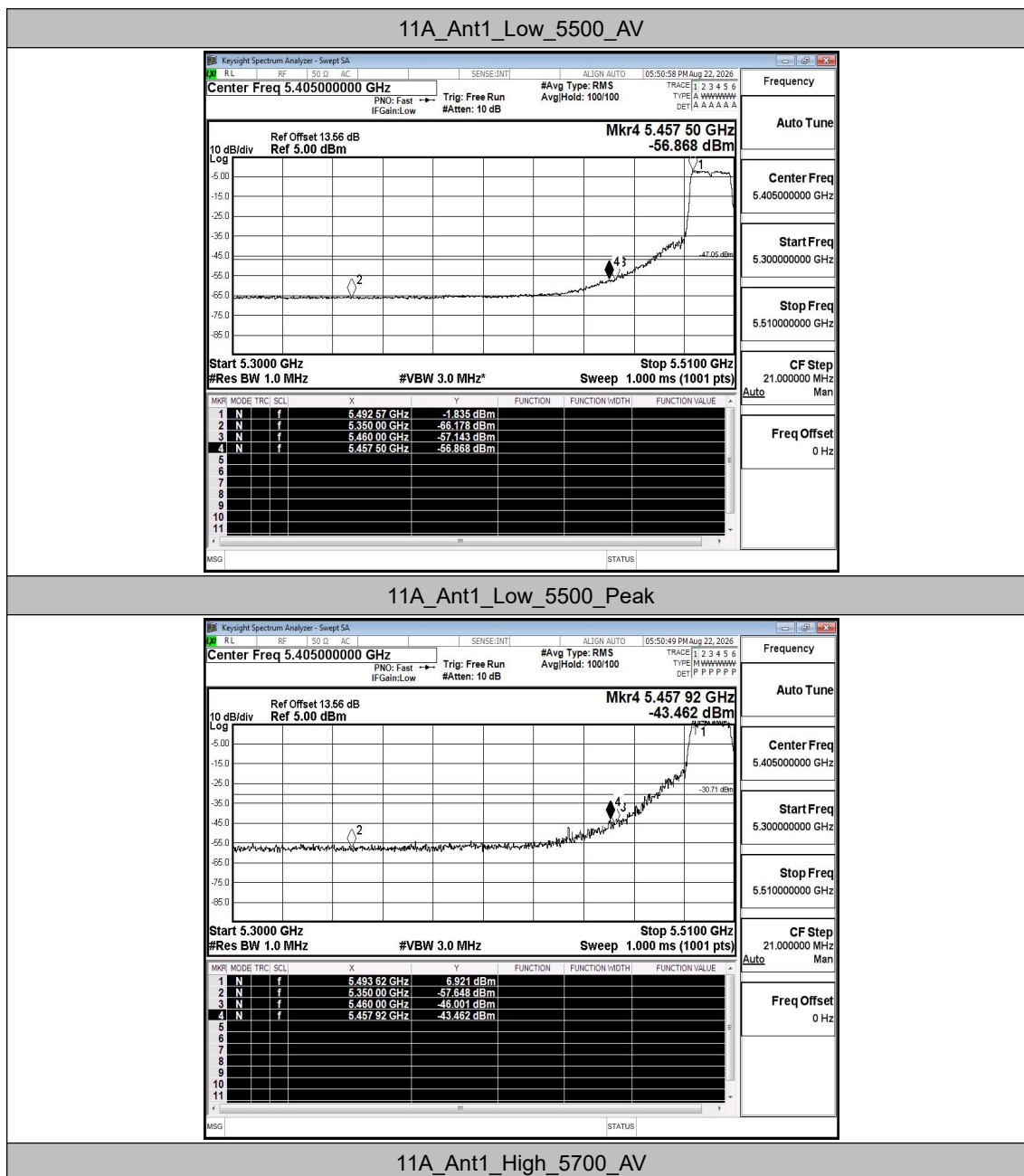
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5500	AV	5350.000	-66.18	≤-47.05	3.71	2.14	34.87	≤54	PASS
				AV	5457.500	-56.87	≤-47.05	3.71	2.14	44.18	≤54	PASS
				AV	5460.000	-57.14	≤-47.05	3.71	2.14	43.91	≤54	PASS
				Peak	5350.000	-57.65	≤-30.71	3.71	0.00	41.26	≤68.2	PASS
				Peak	5457.920	-43.46	≤-30.71	3.71	0.00	55.45	≤68.2	PASS
				Peak	5460.000	-46	≤-30.71	3.71	0.00	52.91	≤68.2	PASS
		High	5700	AV	5725.000	-48.39	≤-46.67	3.71	1.76	52.28	≤54	PASS
				AV	5725.150	-48.5	≤-46.67	3.71	1.76	52.17	≤54	PASS
				AV	5735.000	-57.25	≤-46.67	3.71	1.76	43.42	≤54	PASS
				Peak	5725.000	-31.15	≤-30.71	3.71	0.00	67.76	≤68.2	PASS
				Peak	5725.530	-33.04	≤-30.71	3.71	0.00	65.87	≤68.2	PASS
				Peak	5735.000	-46.66	≤-30.71	3.71	0.00	52.25	≤68.2	PASS
11N20SISO	Ant1	Low	5500	AV	5350.000	-60.37	≤-47.05	3.71	2.14	40.68	≤54	PASS
				AV	5459.600	-47.63	≤-47.05	3.71	2.14	53.42	≤54	PASS
				AV	5460.000	-47.91	≤-47.05	3.71	2.14	53.14	≤54	PASS
				Peak	5350.000	-52.28	≤-30.71	3.71	0.00	46.63	≤68.2	PASS
				Peak	5458.760	-33	≤-30.71	3.71	0.00	65.91	≤68.2	PASS
				Peak	5460.000	-35.62	≤-30.71	3.71	0.00	63.29	≤68.2	PASS
		High	5700	AV	5725.000	-47.99	≤-46.67	3.71	1.76	52.68	≤54	PASS
				AV	5725.340	-46.94	≤-46.67	3.71	1.76	53.73	≤54	PASS
				AV	5735.000	-56.26	≤-46.67	3.71	1.76	44.41	≤54	PASS
				Peak	5725.000	-34.12	≤-30.71	3.71	0.00	64.79	≤68.2	PASS
				Peak	5725.910	-33.37	≤-30.71	3.71	0.00	65.54	≤68.2	PASS
				Peak	5735.000	-42.84	≤-30.71	3.71	0.00	56.07	≤68.2	PASS
11N40SISO	Ant1	Low	5510	AV	5350.000	-66.5	≤-47.60	3.71	2.69	35.10	≤54	PASS
				AV	5458.620	-49.11	≤-47.60	3.71	2.69	52.49	≤54	PASS
				AV	5460.000	-51.06	≤-47.60	3.71	2.69	50.54	≤54	PASS
				Peak	5350.000	-59.27	≤-30.71	3.71	0.00	39.64	≤68.2	PASS
				Peak	5459.280	-36.31	≤-30.71	3.71	0.00	62.60	≤68.2	PASS
				Peak	5460.000	-39.54	≤-30.71	3.71	0.00	59.37	≤68.2	PASS
		High	5670	AV	5725.000	-52.87	≤-47.92	3.71	3.01	49.05	≤54	PASS
				AV	5727.510	-51.78	≤-47.92	3.71	3.01	50.14	≤54	PASS
				AV	5735.000	-55.57	≤-47.92	3.71	3.01	46.35	≤54	PASS
				Peak	5725.000	-40.64	≤-30.71	3.71	0.00	58.27	≤68.2	PASS
				Peak	5733.490	-38.62	≤-30.71	3.71	0.00	60.29	≤68.2	PASS

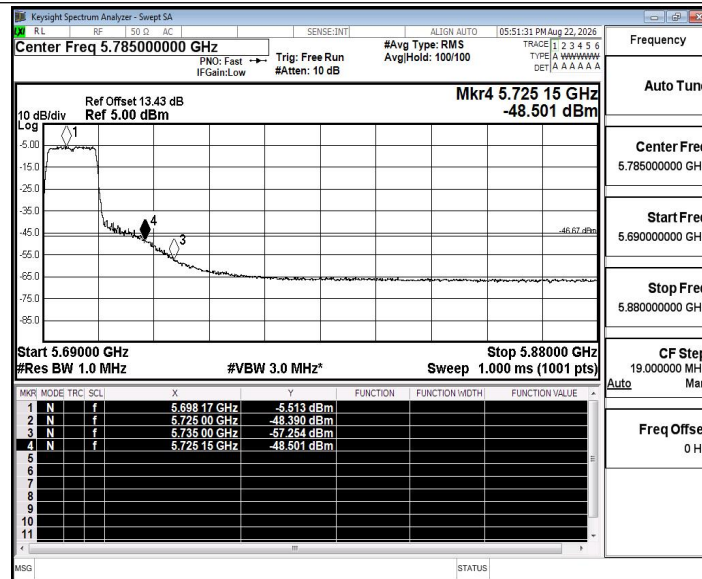
				Peak	5735.000	-44.53	≤-30.71	3.71	0.00	54.38	≤68.2	PASS
11AC20SISO	Ant1	Low	5500	AV	5350.000	-65.75	≤-46.56	3.71	1.65	34.81	≤54	PASS
				AV	5459.390	-57.31	≤-46.56	3.71	1.65	43.25	≤54	PASS
				AV	5460.000	-58.04	≤-46.56	3.71	1.65	42.52	≤54	PASS
				Peak	5350.000	-59.1	≤-30.71	3.71	0.00	39.81	≤68.2	PASS
				Peak	5456.660	-42.33	≤-30.71	3.71	0.00	56.58	≤68.2	PASS
				Peak	5460.000	-45.94	≤-30.71	3.71	0.00	52.97	≤68.2	PASS
		High	5700	AV	5725.000	-47.64	≤-46.91	3.71	2.00	53.27	≤54	PASS
				AV	5725.340	-47.17	≤-46.91	3.71	2.00	53.74	≤54	PASS
				AV	5735.000	-55.52	≤-46.91	3.71	2.00	45.39	≤54	PASS
				Peak	5725.000	-32.28	≤-30.71	3.71	0.00	66.63	≤68.2	PASS
				Peak	5725.150	-32.04	≤-30.71	3.71	0.00	66.87	≤68.2	PASS
				Peak	5735.000	-41.51	≤-30.71	3.71	0.00	57.40	≤68.2	PASS
11AC40SISO	Ant1	Low	5510	AV	5350.000	-66.19	≤-47.64	3.71	2.73	35.45	≤54	PASS
				AV	5457.740	-48.66	≤-47.64	3.71	2.73	52.98	≤54	PASS
				AV	5460.000	-49.95	≤-47.64	3.71	2.73	51.69	≤54	PASS
				Peak	5350.000	-58.4	≤-30.71	3.71	0.00	40.51	≤68.2	PASS
				Peak	5456.200	-37.1	≤-30.71	3.71	0.00	61.81	≤68.2	PASS
				Peak	5460.000	-39.23	≤-30.71	3.71	0.00	59.68	≤68.2	PASS
		High	5670	AV	5725.000	-51.21	≤-47.64	3.71	2.73	50.43	≤54	PASS
				AV	5725.210	-50.63	≤-47.64	3.71	2.73	51.01	≤54	PASS
				AV	5735.000	-57.07	≤-47.64	3.71	2.73	44.57	≤54	PASS
				Peak	5725.000	-37.01	≤-30.71	3.71	0.00	61.90	≤68.2	PASS
				Peak	5725.210	-37.58	≤-30.71	3.71	0.00	61.33	≤68.2	PASS
				Peak	5735.000	-42.53	≤-30.71	3.71	0.00	56.38	≤68.2	PASS
11AC80SISO	Ant1	Low	5530	AV	5350.000	-65.61	≤-47.92	3.71	3.01	36.31	≤54	PASS
				AV	5442.800	-50.2	≤-47.92	3.71	3.01	51.72	≤54	PASS
				AV	5460.000	-52.08	≤-47.92	3.71	3.01	49.84	≤54	PASS
				Peak	5350.000	-57.03	≤-30.71	3.71	0.00	41.88	≤68.2	PASS
				Peak	5445.320	-39.71	≤-30.71	3.71	0.00	59.20	≤68.2	PASS
				Peak	5460.000	-41.6	≤-30.71	3.71	0.00	57.31	≤68.2	PASS
		High	5610	AV	5725.000	-57.96	≤-47.92	3.71	3.01	43.96	≤54	PASS
				AV	5727.870	-57.37	≤-47.92	3.71	3.01	44.55	≤54	PASS
				AV	5735.000	-60.86	≤-47.92	3.71	3.01	41.06	≤54	PASS
				Peak	5725.000	-47.74	≤-30.71	3.71	0.00	51.17	≤68.2	PASS
				Peak	5727.870	-45.45	≤-30.71	3.71	0.00	53.46	≤68.2	PASS
				Peak	5735.000	-48.92	≤-30.71	3.71	0.00	49.99	≤68.2	PASS

Note:

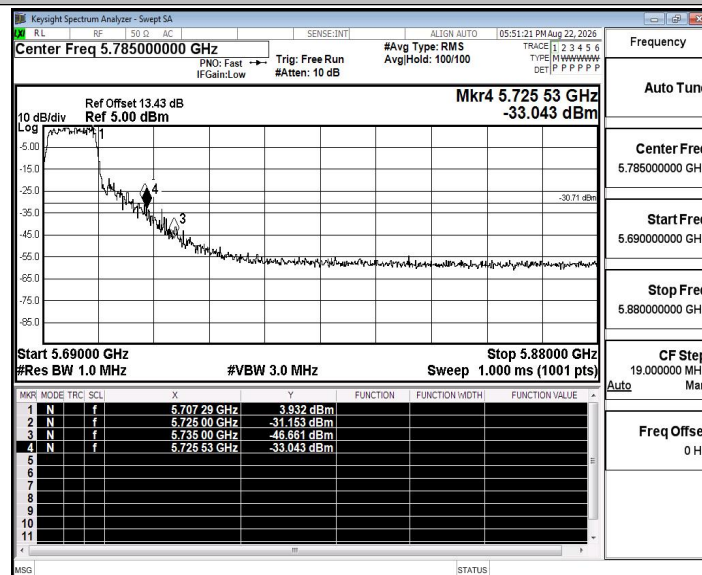
1. The Antenna Gain is compensated in the graph.

Test Graphs





11A_Ant1_High_5700_Peak



11N20SISO_Ant1_Low_5500_AV