

Appendix C

RF Test Data for 5.3GWIFI(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

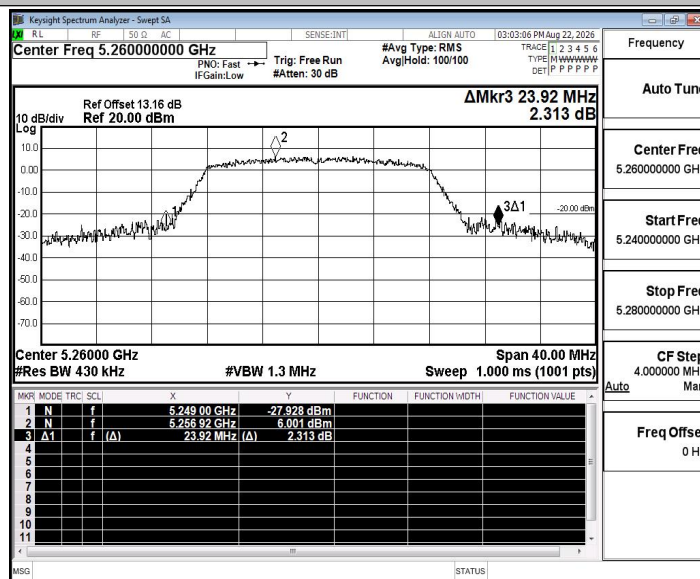
C.1 26dB Emission Bandwidth

Test Result

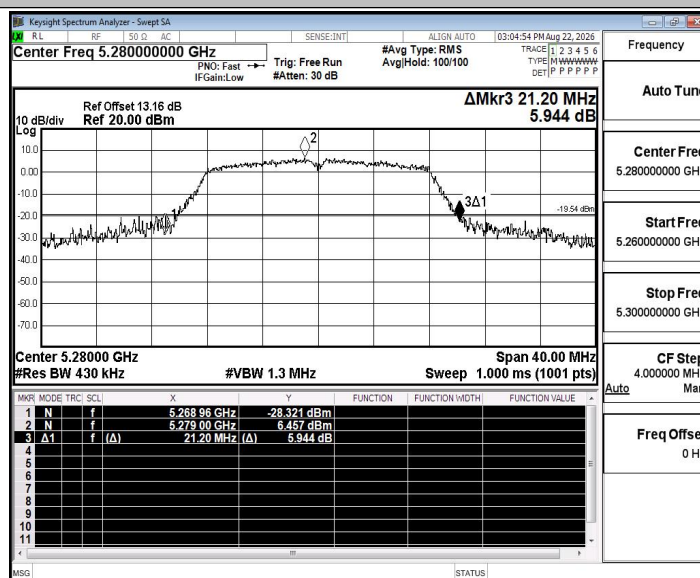
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	23.920	5249.000	5272.920	---	---
		5280	21.200	5268.960	5290.160	---	---
		5320	20.600	5309.600	5330.200	---	---
11N20SISO	Ant1	5260	22.800	5248.160	5270.960	---	---
		5280	26.440	5266.720	5293.160	---	---
		5320	23.040	5307.680	5330.720	---	---
11N40SISO	Ant1	5270	66.080	5236.960	5303.040	---	---
		5310	65.360	5277.040	5342.400	---	---
11AC20SISO	Ant1	5260	20.520	5249.680	5270.200	---	---
		5280	20.840	5269.480	5290.320	---	---
		5320	22.080	5308.440	5330.520	---	---
11AC40SISO	Ant1	5270	41.120	5249.680	5290.800	---	---
		5310	45.200	5285.200	5330.400	---	---
11AC80SISO	Ant1	5290	80.960	5249.520	5330.480	---	---

Test Graphs

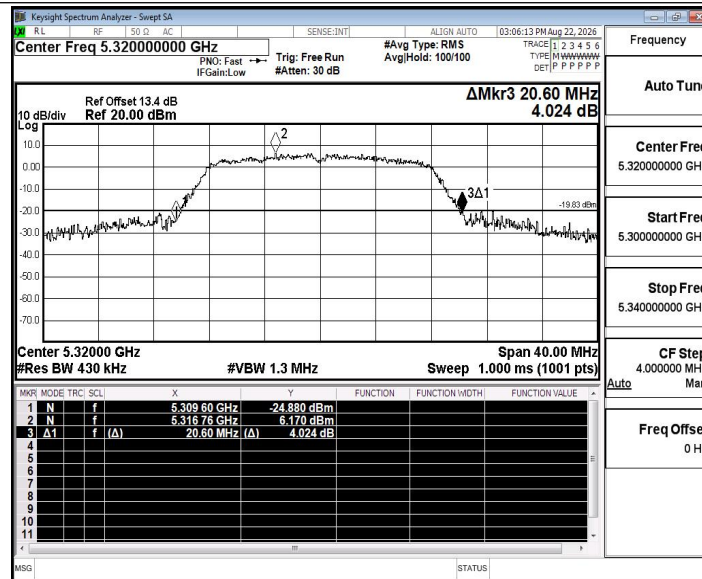
11A_Ant1_5260



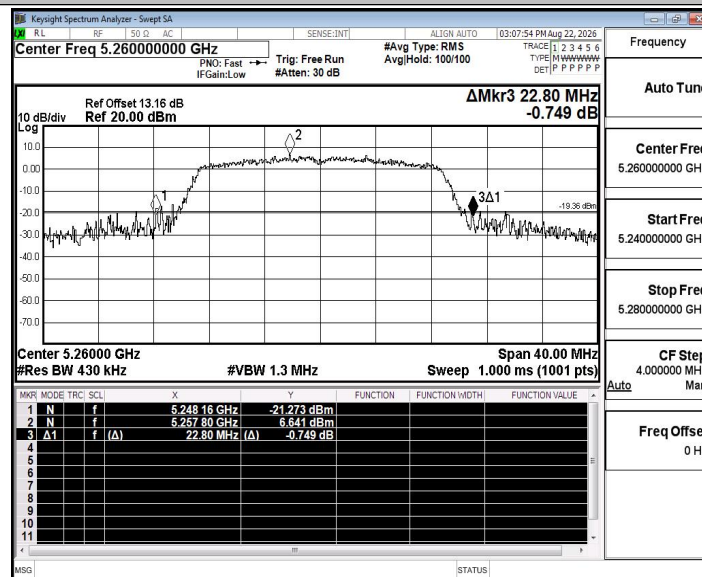
11A_Ant1_5280



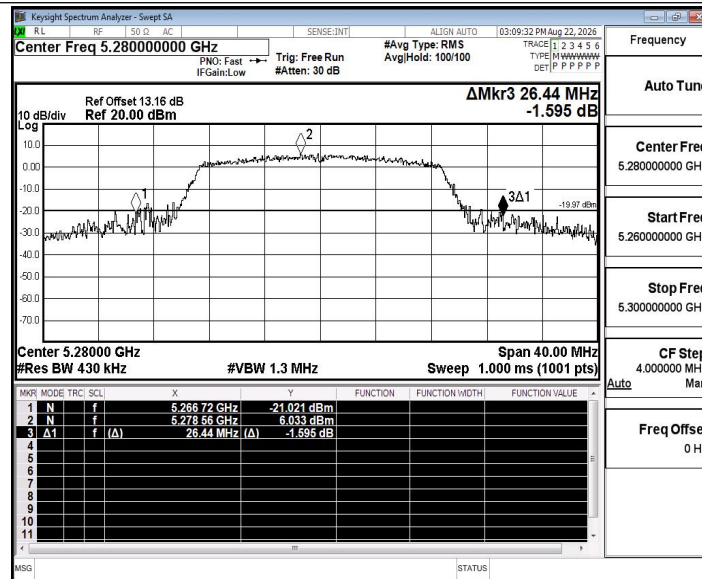
11A_Ant1_5320



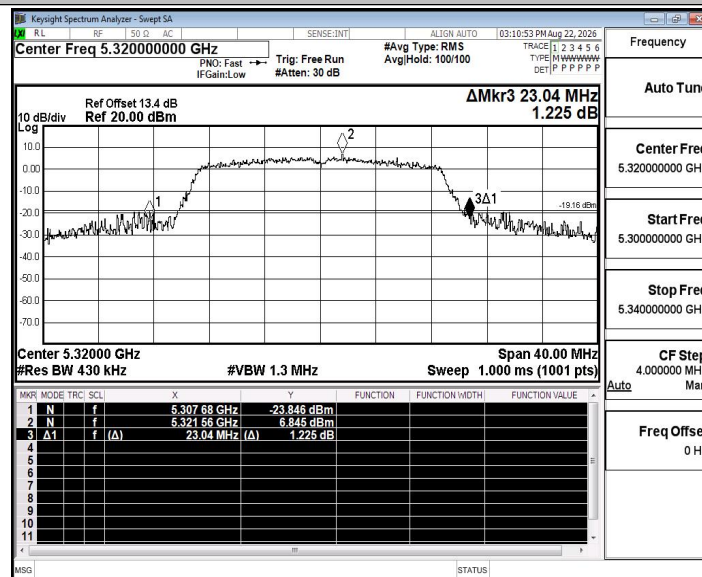
11N20SISO_Ant1_5260



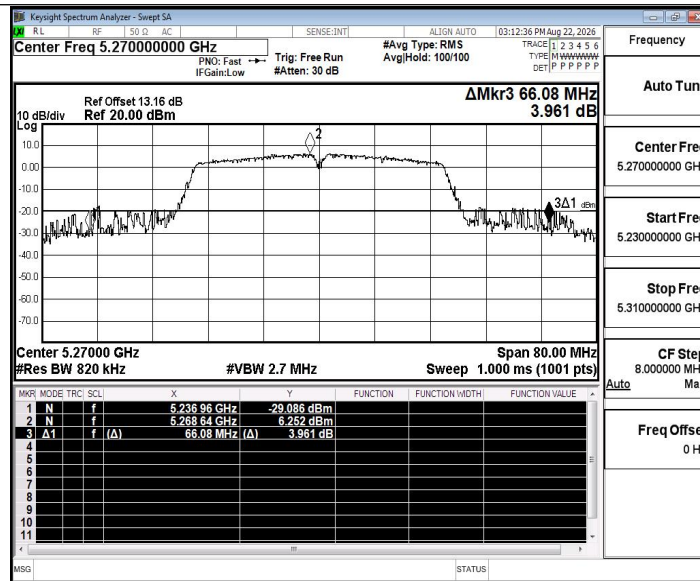
11N20SISO_Ant1_5280



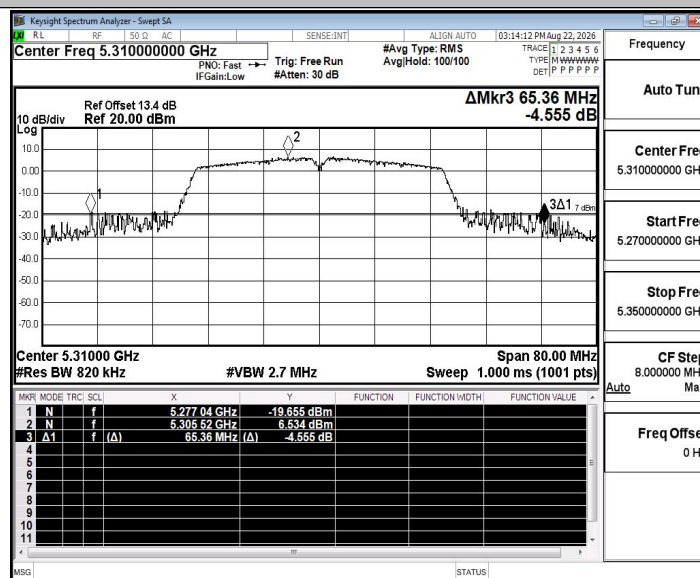
11N20SISO_Ant1_5320



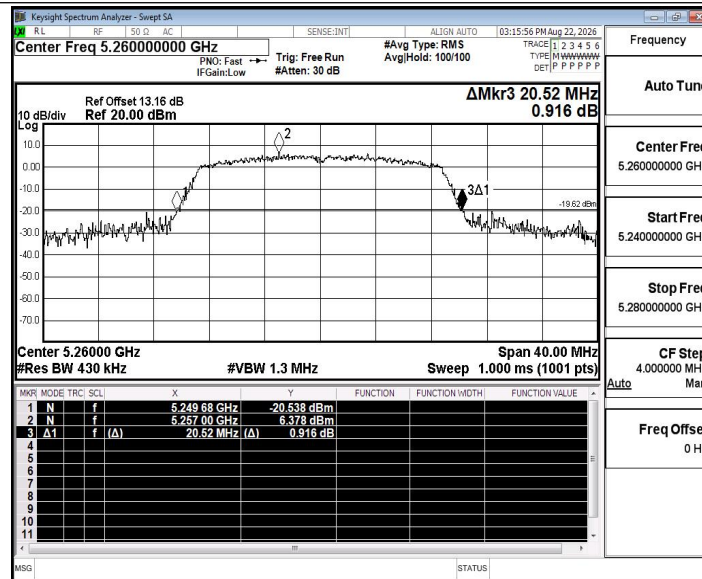
11N40SISO_Ant1_5270



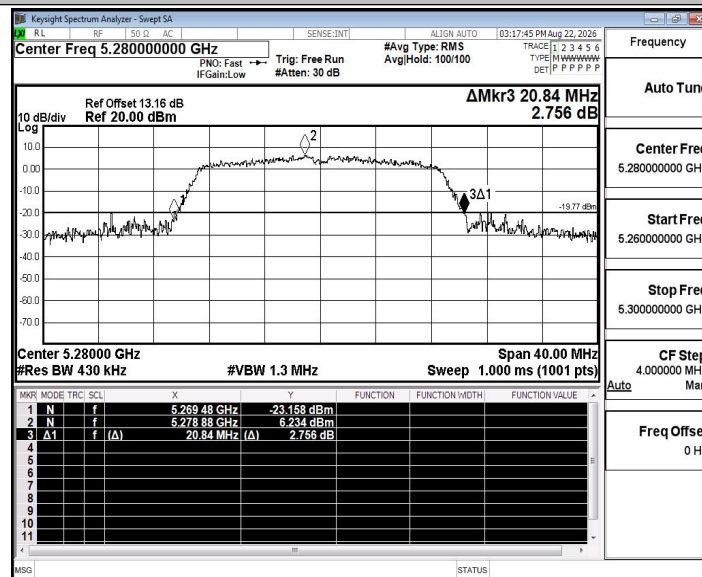
11N40SISO_Ant1_5310



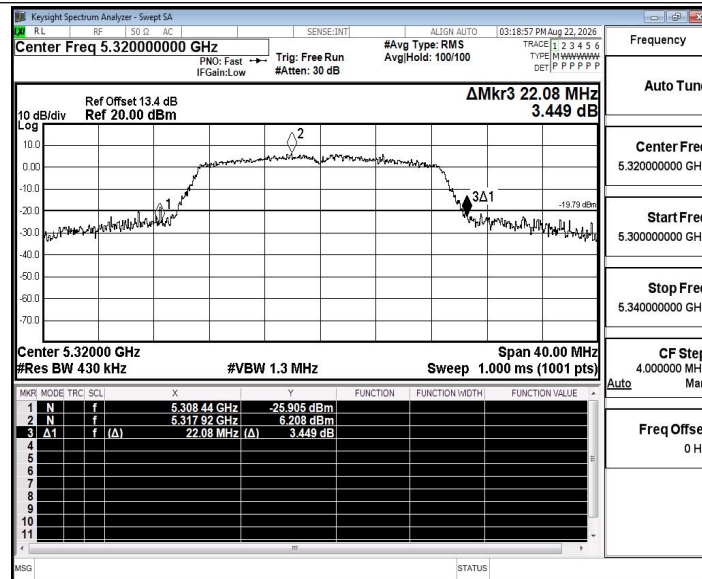
11AC20SISO_Ant1_5260



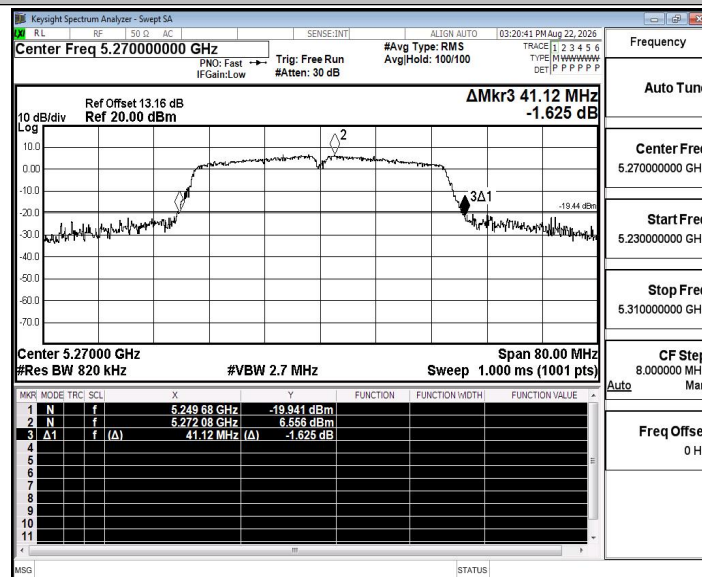
11AC20SISO_Ant1_5280



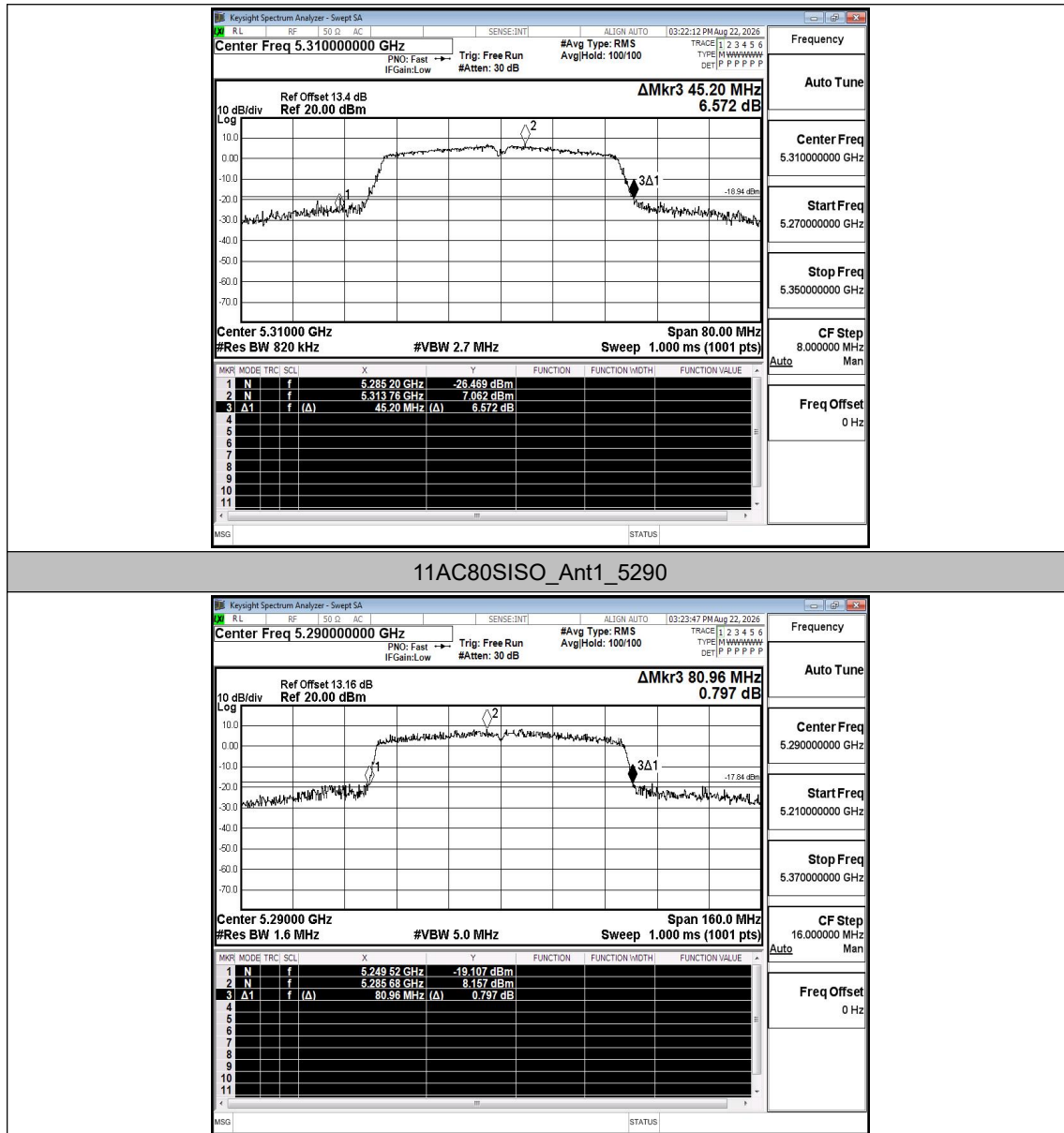
11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



C.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	5260	NA	14.14	0.15	14.29	≤24	PASS
		5280	NA	13.88	0.15	14.03	≤24	PASS
		5320	NA	13.79	0.15	13.94	≤24	PASS
11N20SISO	Ant1	5260	NA	13.93	0.13	14.06	≤24	PASS
		5280	NA	13.84	0.16	14.00	≤24	PASS
		5320	NA	13.63	0.17	13.80	≤24	PASS
11N40SISO	Ant1	5270	NA	13.73	0.26	13.99	≤24	PASS
		5310	NA	13.47	0.32	13.79	≤24	PASS
11AC20SISO	Ant1	5260	NA	13.91	0.16	14.07	≤24	PASS
		5280	NA	13.91	0.13	14.04	≤24	PASS
		5320	NA	13.67	0.16	13.83	≤24	PASS
11AC40SISO	Ant1	5270	NA	13.78	0.32	14.10	≤24	PASS
		5310	NA	13.44	0.26	13.70	≤24	PASS
11AC80SISO	Ant1	5290	NA	13.47	0.63	14.10	≤24	PASS

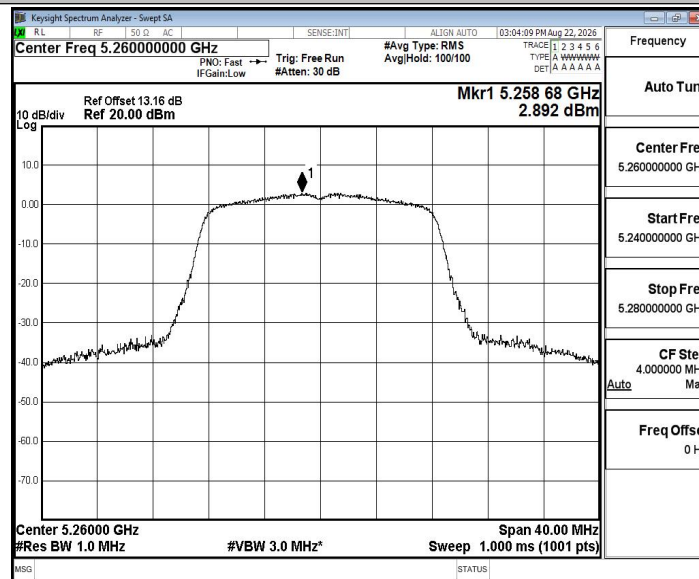
C.3 Maximum power spectral density

Test Result

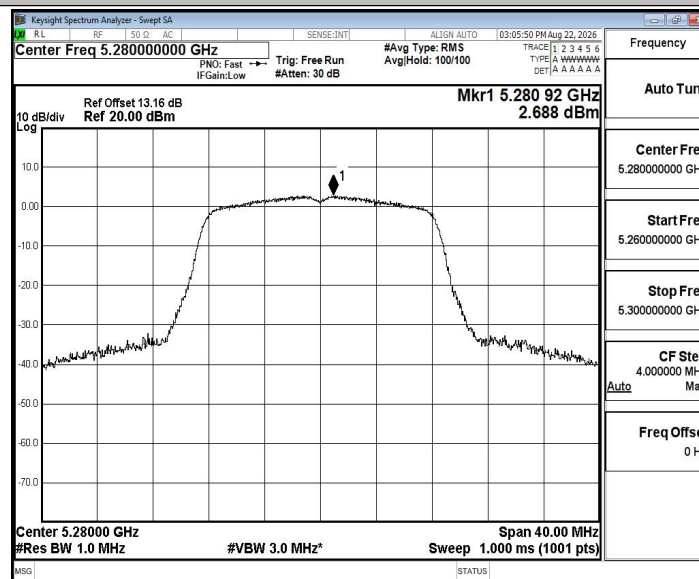
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	2.89	0.15	3.04	≤11.00	PASS
		5280	2.69	0.15	2.84	≤11.00	PASS
		5320	3.2	0.15	3.35	≤11.00	PASS
11N20SISO	Ant1	5260	2.49	0.13	2.62	≤11.00	PASS
		5280	2.6	0.16	2.76	≤11.00	PASS
		5320	2.76	0.17	2.93	≤11.00	PASS
11N40SISO	Ant1	5270	-0.28	0.26	-0.02	≤11.00	PASS
		5310	-0.3	0.32	0.02	≤11.00	PASS
11AC20SISO	Ant1	5260	2.62	0.16	2.78	≤11.00	PASS
		5280	2.68	0.13	2.81	≤11.00	PASS
		5320	2.7	0.16	2.86	≤11.00	PASS
11AC40SISO	Ant1	5270	0.02	0.32	0.34	≤11.00	PASS
		5310	-0.36	0.26	-0.10	≤11.00	PASS
11AC80SISO	Ant1	5290	-3.2	0.63	-2.57	≤11.00	PASS

Test Graphs

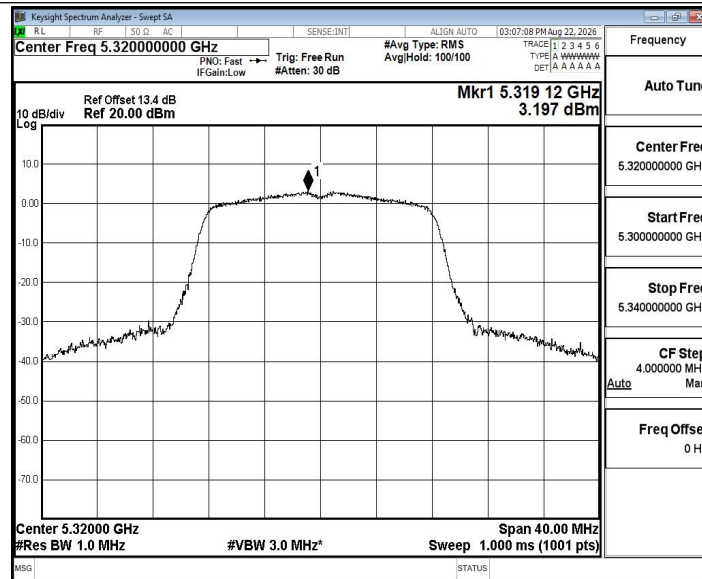
11A_Ant1_5260



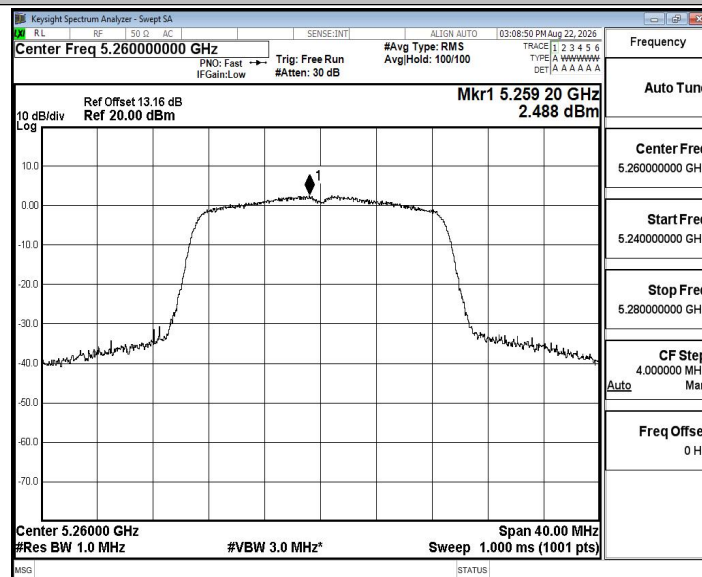
11A_Ant1_5280



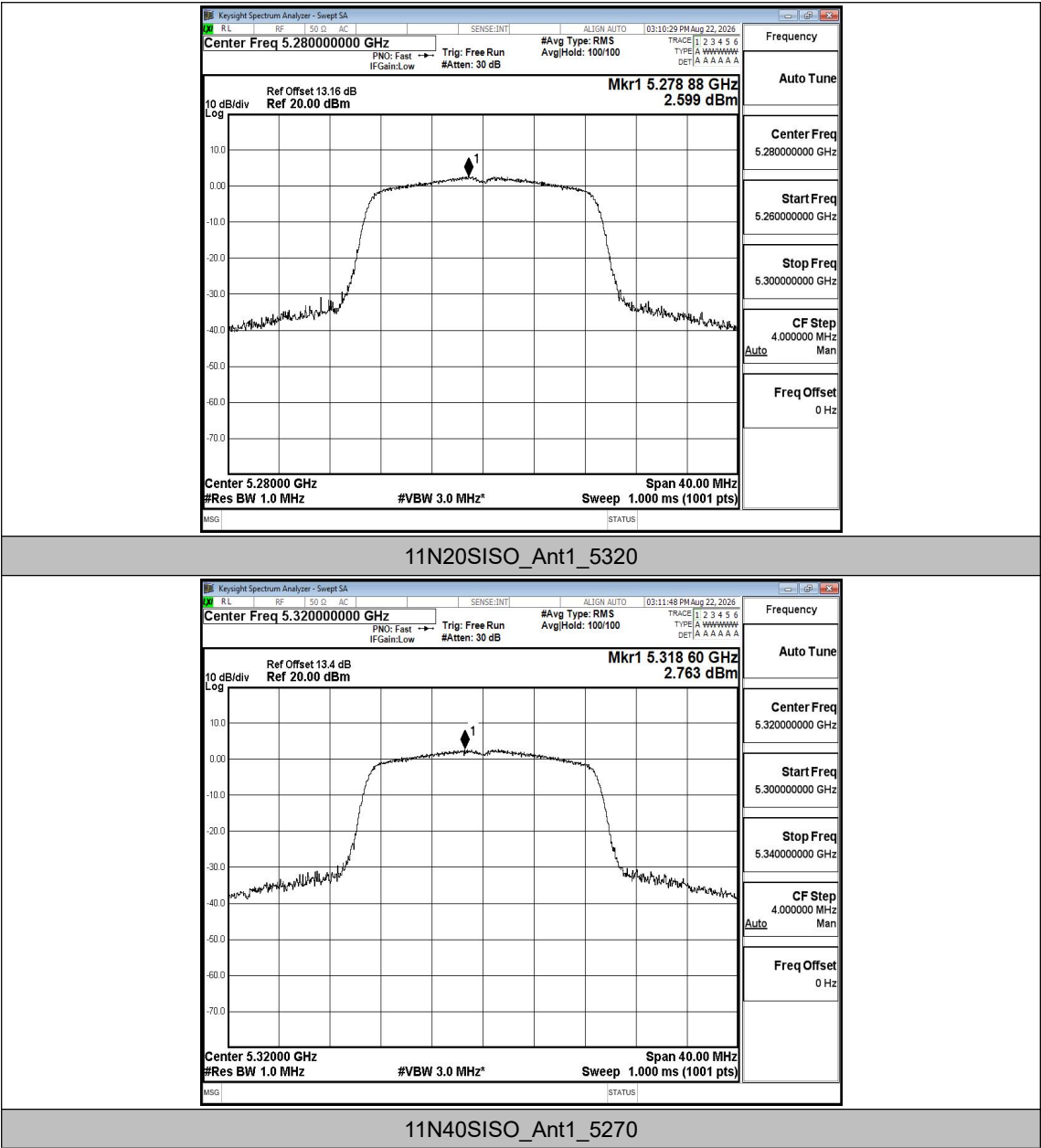
11A_Ant1_5320

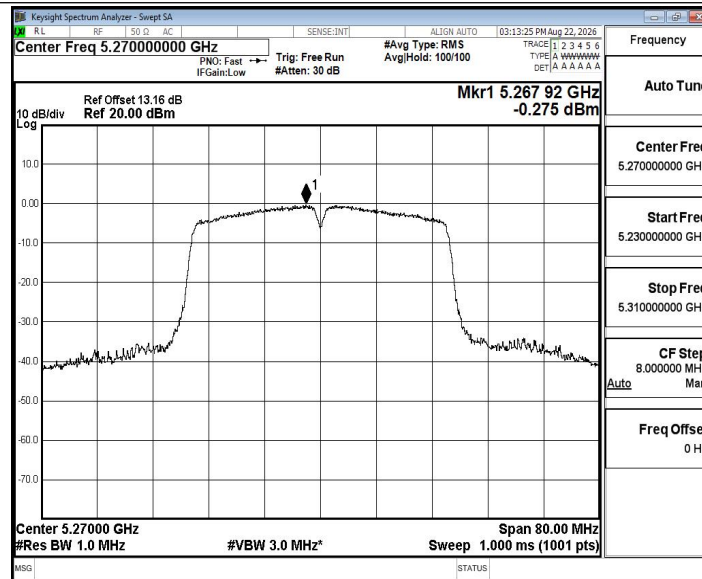


11N20SISO_Ant1_5260

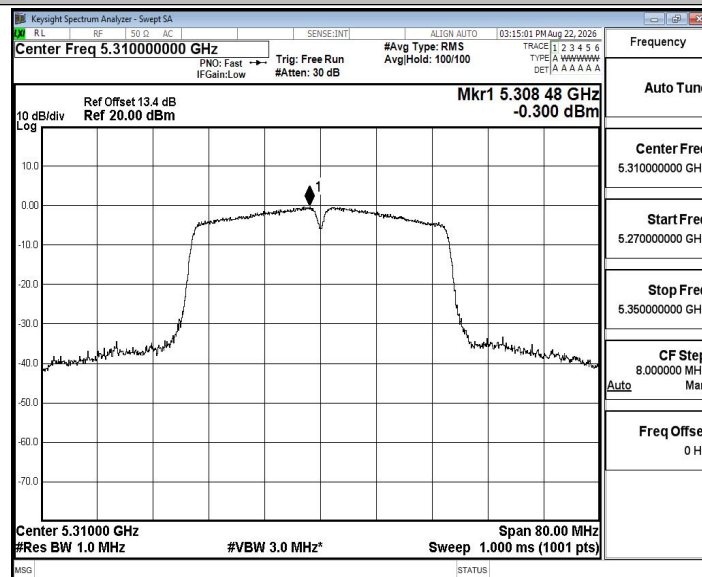


11N20SISO_Ant1_5280

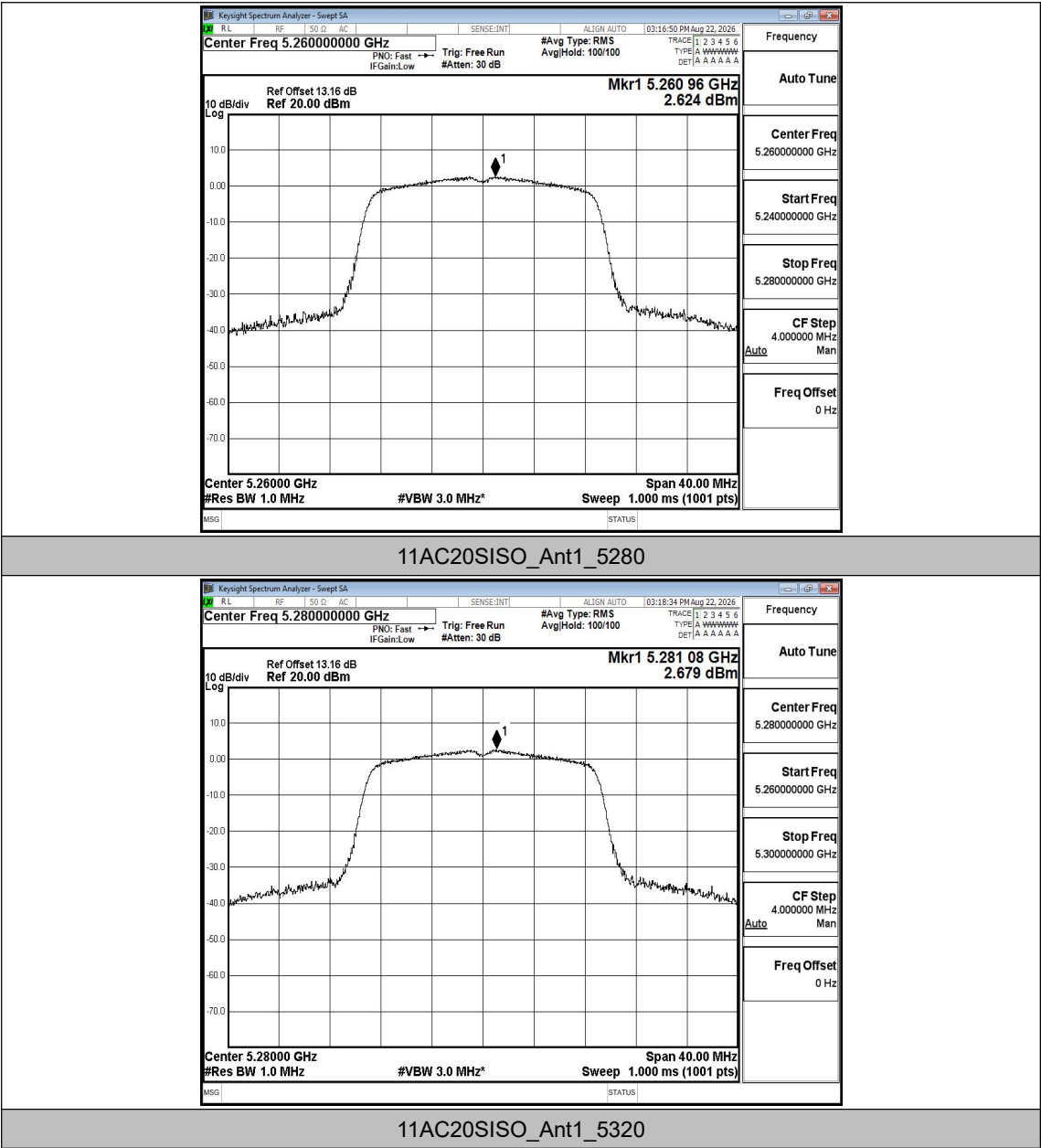


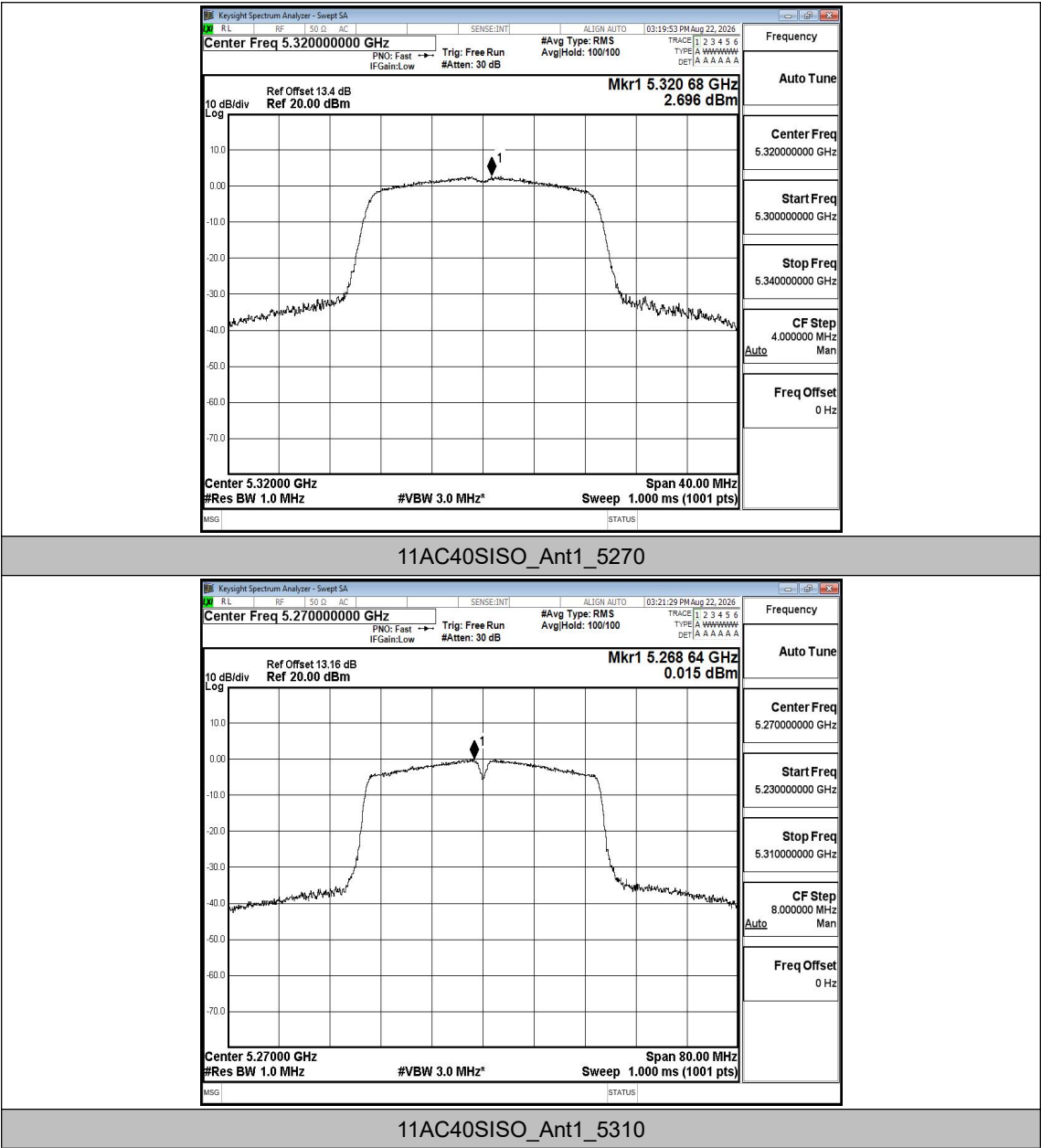


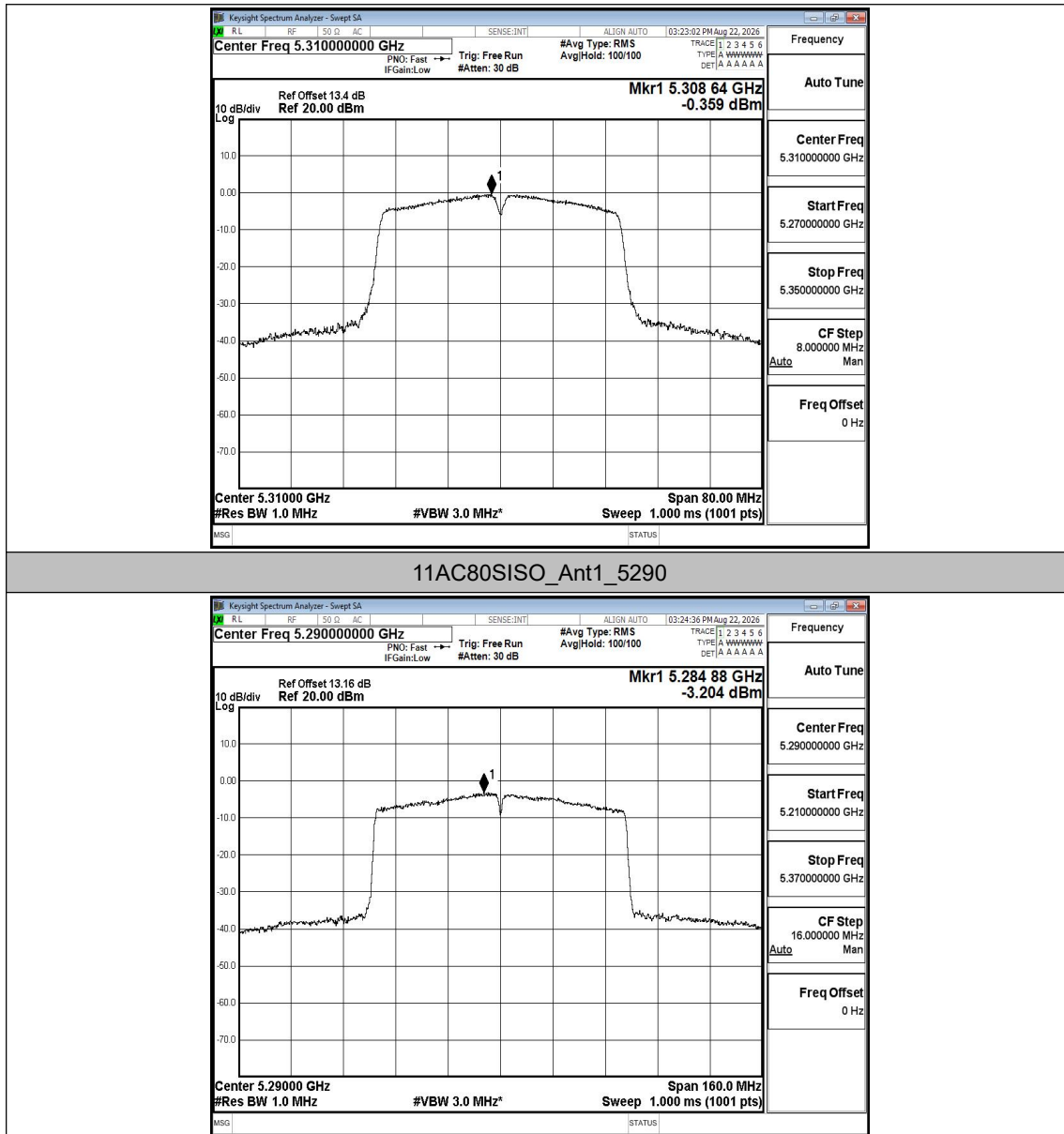
11N40SISO_Ant1_5310



11A20SISO_Ant1_5260







C.4 Emissions in Restricted Bands

Test Result

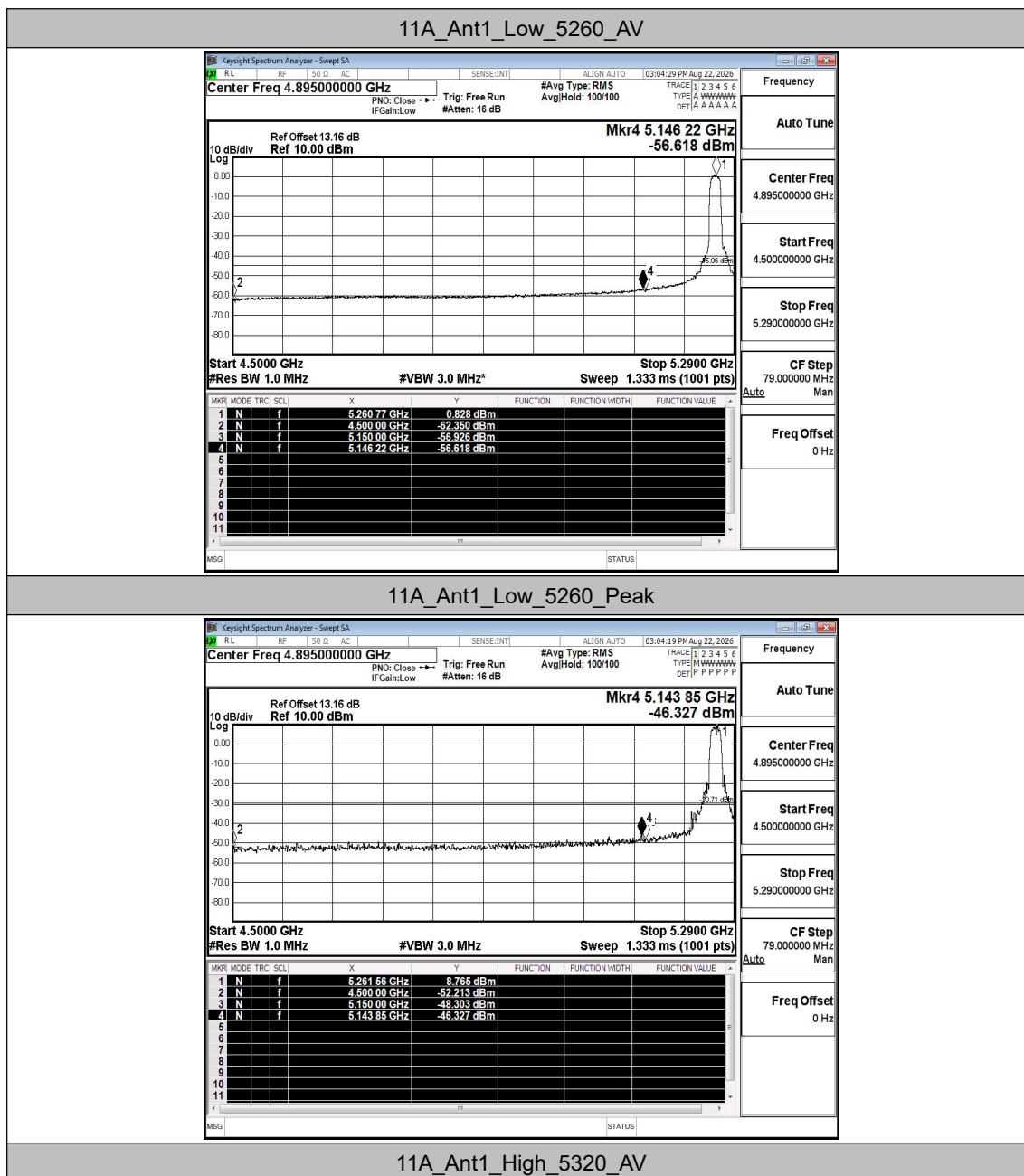
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5260	AV	4500.000	-62.35	≤-45.06	3.71	0.15	36.71	≤54	PASS
				AV	5146.220	-56.62	≤-45.06	3.71	0.15	42.44	≤54	PASS
				AV	5150.000	-56.93	≤-45.06	3.71	0.15	42.13	≤54	PASS
				Peak	4500.000	-52.21	≤-30.71	3.71	0.00	46.70	≤68.2	PASS
				Peak	5143.850	-46.33	≤-30.71	3.71	0.00	52.58	≤68.2	PASS
				Peak	5150.000	-48.3	≤-30.71	3.71	0.00	50.61	≤68.2	PASS
		High	5320	AV	5350.000	-49.02	≤-45.06	3.71	0.15	50.04	≤54	PASS
				AV	5350.560	-48.8	≤-45.06	3.71	0.15	50.26	≤54	PASS
				AV	5460.000	-58.24	≤-45.06	3.71	0.15	40.82	≤54	PASS
				Peak	5350.000	-34.3	≤-30.71	3.71	0.00	64.61	≤68.2	PASS
				Peak	5350.720	-33.74	≤-30.71	3.71	0.00	65.17	≤68.2	PASS
				Peak	5460.000	-49.59	≤-30.71	3.71	0.00	49.32	≤68.2	PASS
11N20SISO	Ant1	Low	5260	AV	4500.000	-62.01	≤-45.04	3.71	0.13	37.03	≤54	PASS
				AV	5146.220	-56.77	≤-45.04	3.71	0.13	42.27	≤54	PASS
				AV	5150.000	-57.01	≤-45.04	3.71	0.13	42.03	≤54	PASS
				Peak	4500.000	-52.26	≤-30.71	3.71	0.00	46.65	≤68.2	PASS
				Peak	5053.790	-46.91	≤-30.71	3.71	0.00	52.00	≤68.2	PASS
				Peak	5150.000	-48.55	≤-30.71	3.71	0.00	50.36	≤68.2	PASS
		High	5320	AV	5350.000	-48.18	≤-45.08	3.71	0.17	50.90	≤54	PASS
				AV	5351.200	-48.12	≤-45.08	3.71	0.17	50.96	≤54	PASS
				AV	5460.000	-58.71	≤-45.08	3.71	0.17	40.37	≤54	PASS
				Peak	5350.000	-41.3	≤-30.71	3.71	0.00	57.61	≤68.2	PASS
				Peak	5353.440	-33.54	≤-30.71	3.71	0.00	65.37	≤68.2	PASS
				Peak	5460.000	-49.76	≤-30.71	3.71	0.00	49.15	≤68.2	PASS
11N40SISO	Ant1	Low	5270	AV	4500.000	-62.59	≤-45.17	3.71	0.26	36.58	≤54	PASS
				AV	5142.270	-56.79	≤-45.17	3.71	0.26	42.38	≤54	PASS
				AV	5150.000	-56.89	≤-45.17	3.71	0.26	42.28	≤54	PASS
				Peak	4500.000	-53.71	≤-30.71	3.71	0.00	45.20	≤68.2	PASS
				Peak	5130.420	-46.52	≤-30.71	3.71	0.00	52.39	≤68.2	PASS
				Peak	5150.000	-47.72	≤-30.71	3.71	0.00	51.19	≤68.2	PASS
		High	5310	AV	5350.000	-51.95	≤-45.23	3.71	0.32	47.28	≤54	PASS
				AV	5350.720	-51.6	≤-45.23	3.71	0.32	47.63	≤54	PASS
				AV	5460.000	-61.59	≤-45.23	3.71	0.32	37.64	≤54	PASS
				Peak	5350.000	-37.48	≤-30.71	3.71	0.00	61.43	≤68.2	PASS
				Peak	5350.240	-35.59	≤-30.71	3.71	0.00	63.32	≤68.2	PASS

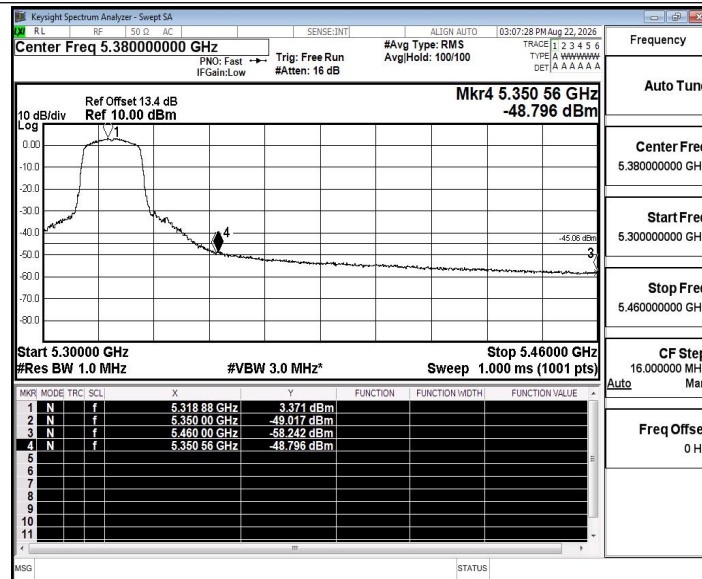
				Peak	5460.000	-53.3	≤-30.71	3.71	0.00	45.61	≤68.2	PASS
11AC20SISO	Ant1	Low	5260	AV	4500.000	-62.14	≤-45.07	3.71	0.16	36.93	≤54	PASS
				AV	5148.590	-56.62	≤-45.07	3.71	0.16	42.45	≤54	PASS
				AV	5150.000	-57.34	≤-45.07	3.71	0.16	41.73	≤54	PASS
				Peak	4500.000	-52.61	≤-30.71	3.71	0.00	46.30	≤68.2	PASS
				Peak	5135.160	-47.04	≤-30.71	3.71	0.00	51.87	≤68.2	PASS
				Peak	5150.000	-48.69	≤-30.71	3.71	0.00	50.22	≤68.2	PASS
		High	5320	AV	5350.000	-48.48	≤-45.07	3.71	0.16	50.59	≤54	PASS
				AV	5350.560	-48.25	≤-45.07	3.71	0.16	50.82	≤54	PASS
				AV	5460.000	-58.71	≤-45.07	3.71	0.16	40.36	≤54	PASS
				Peak	5350.000	-35.64	≤-30.71	3.71	0.00	63.27	≤68.2	PASS
				Peak	5350.720	-34.62	≤-30.71	3.71	0.00	64.29	≤68.2	PASS
				Peak	5460.000	-50.98	≤-30.71	3.71	0.00	47.93	≤68.2	PASS
11AC40SISO	Ant1	Low	5270	AV	4500.000	-61.61	≤-45.23	3.71	0.32	37.62	≤54	PASS
				AV	5146.220	-56.68	≤-45.23	3.71	0.32	42.55	≤54	PASS
				AV	5150.000	-57.06	≤-45.23	3.71	0.32	42.17	≤54	PASS
				Peak	4500.000	-55.02	≤-30.71	3.71	0.00	43.89	≤68.2	PASS
				Peak	5137.530	-47.19	≤-30.71	3.71	0.00	51.72	≤68.2	PASS
				Peak	5150.000	-48.27	≤-30.71	3.71	0.00	50.64	≤68.2	PASS
		High	5310	AV	5350.000	-52.54	≤-45.17	3.71	0.26	46.63	≤54	PASS
				AV	5350.400	-51.36	≤-45.17	3.71	0.26	47.81	≤54	PASS
				AV	5460.000	-61.31	≤-45.17	3.71	0.26	37.86	≤54	PASS
				Peak	5350.000	-43.38	≤-30.71	3.71	0.00	55.53	≤68.2	PASS
				Peak	5350.240	-41.33	≤-30.71	3.71	0.00	57.58	≤68.2	PASS
				Peak	5460.000	-53.96	≤-30.71	3.71	0.00	44.95	≤68.2	PASS
11AC80SISO	Ant1	Low	5290	AV	4500.000	-62.1	≤-45.54	3.71	0.63	37.44	≤54	PASS
				AV	5148.800	-54.16	≤-45.54	3.71	0.63	45.38	≤54	PASS
				AV	5150.000	-54.91	≤-45.54	3.71	0.63	44.63	≤54	PASS
				Peak	4500.000	-53.75	≤-30.71	3.71	0.00	45.16	≤68.2	PASS
				Peak	5149.600	-40.29	≤-30.71	3.71	0.00	58.62	≤68.2	PASS
				Peak	5150.000	-42.22	≤-30.71	3.71	0.00	56.69	≤68.2	PASS
		High	5290	AV	5350.000	-49.81	≤-45.54	3.71	0.63	49.73	≤54	PASS
				AV	5351.600	-49.45	≤-45.54	3.71	0.63	50.09	≤54	PASS
				AV	5460.000	-62.14	≤-45.54	3.71	0.63	37.40	≤54	PASS
				Peak	5350.000	-40.78	≤-30.71	3.71	0.00	58.13	≤68.2	PASS
				Peak	5381.000	-37.24	≤-30.71	3.71	0.00	61.67	≤68.2	PASS
				Peak	5460.000	-54.19	≤-30.71	3.71	0.00	44.72	≤68.2	PASS

Note:

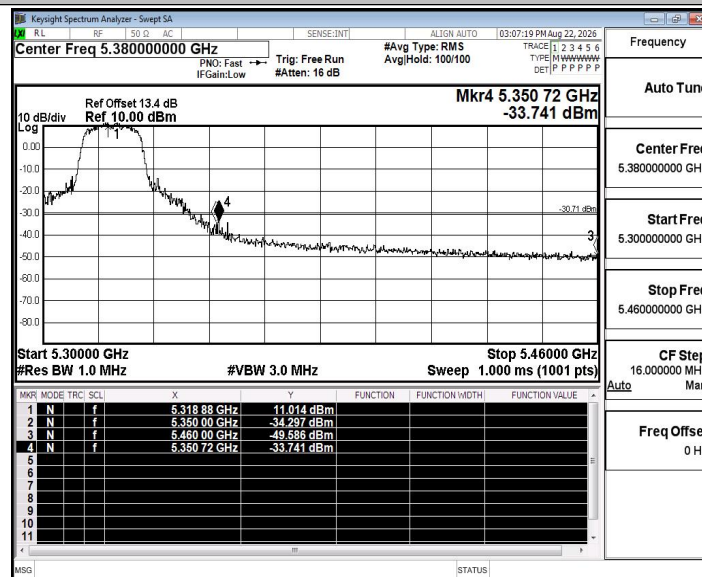
1. The Antenna Gain is compensated in the graph.

Test Graphs

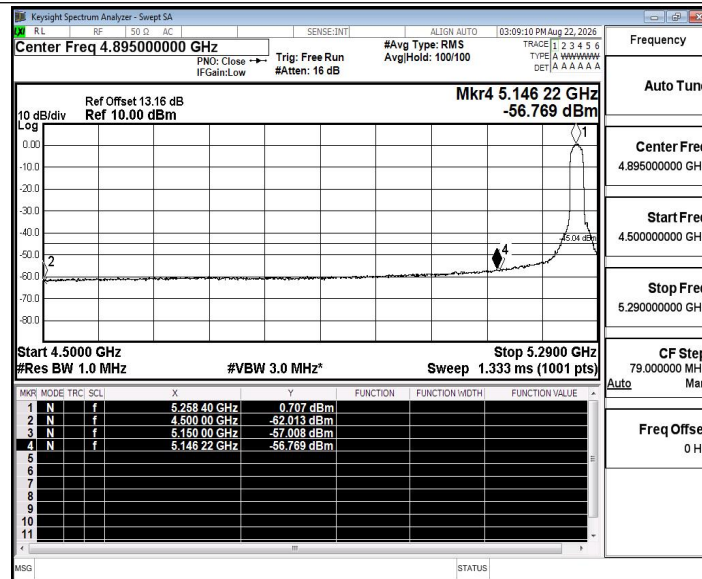




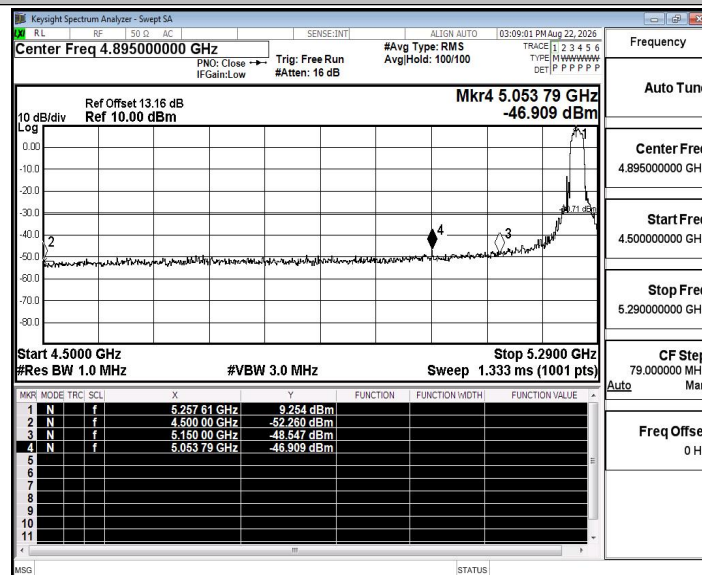
11A_Ant1_High_5320_Peak



11N20SISO_Ant1_Low_5260_AV



11N20SISO_Ant1_Low_5260_Peak



11N20SISO_Ant1_High_5320_AV

