

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: H9190L

Environmental Conditions

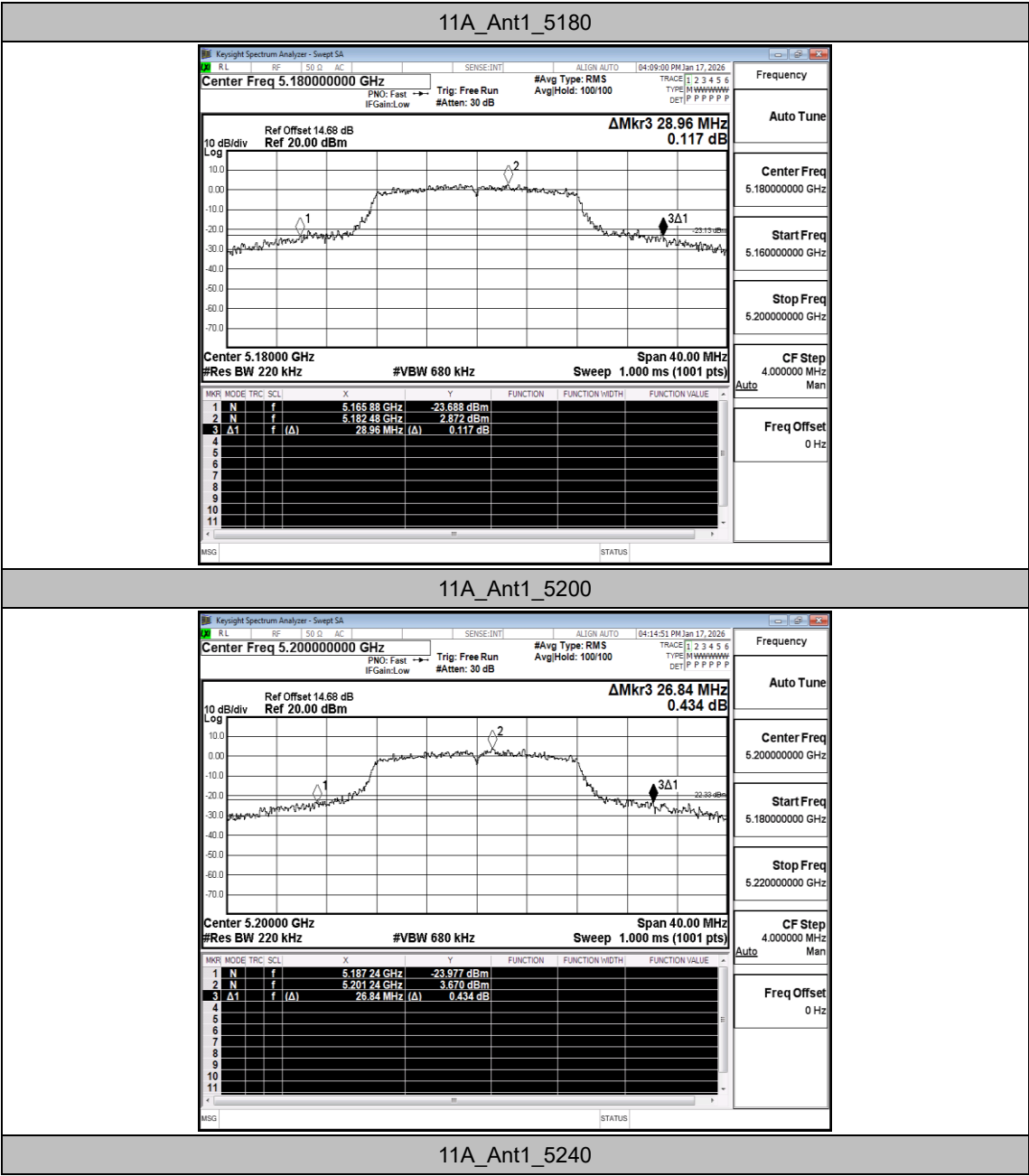
Temperature:	23.5°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

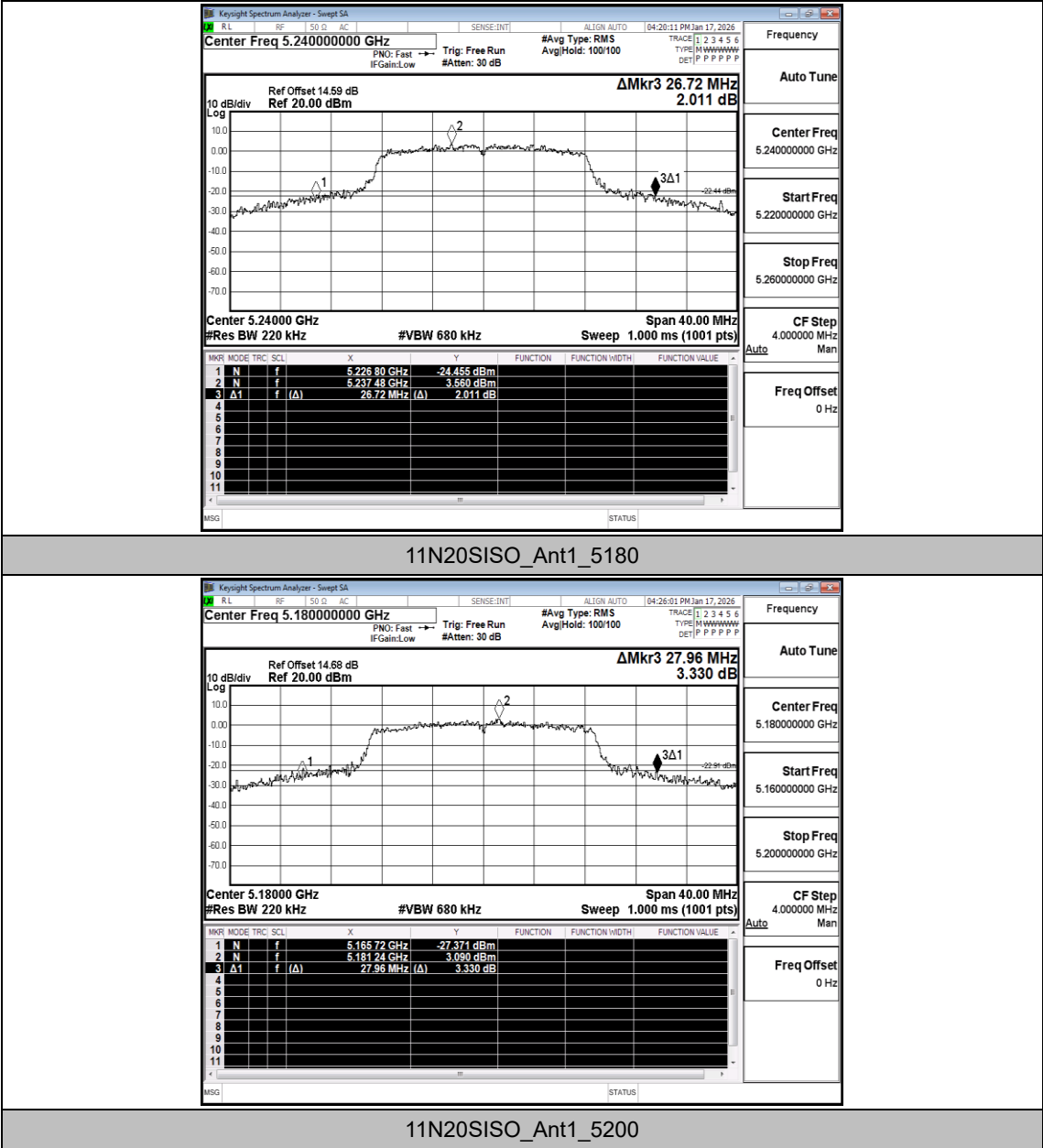
D.1 Emission Bandwidth

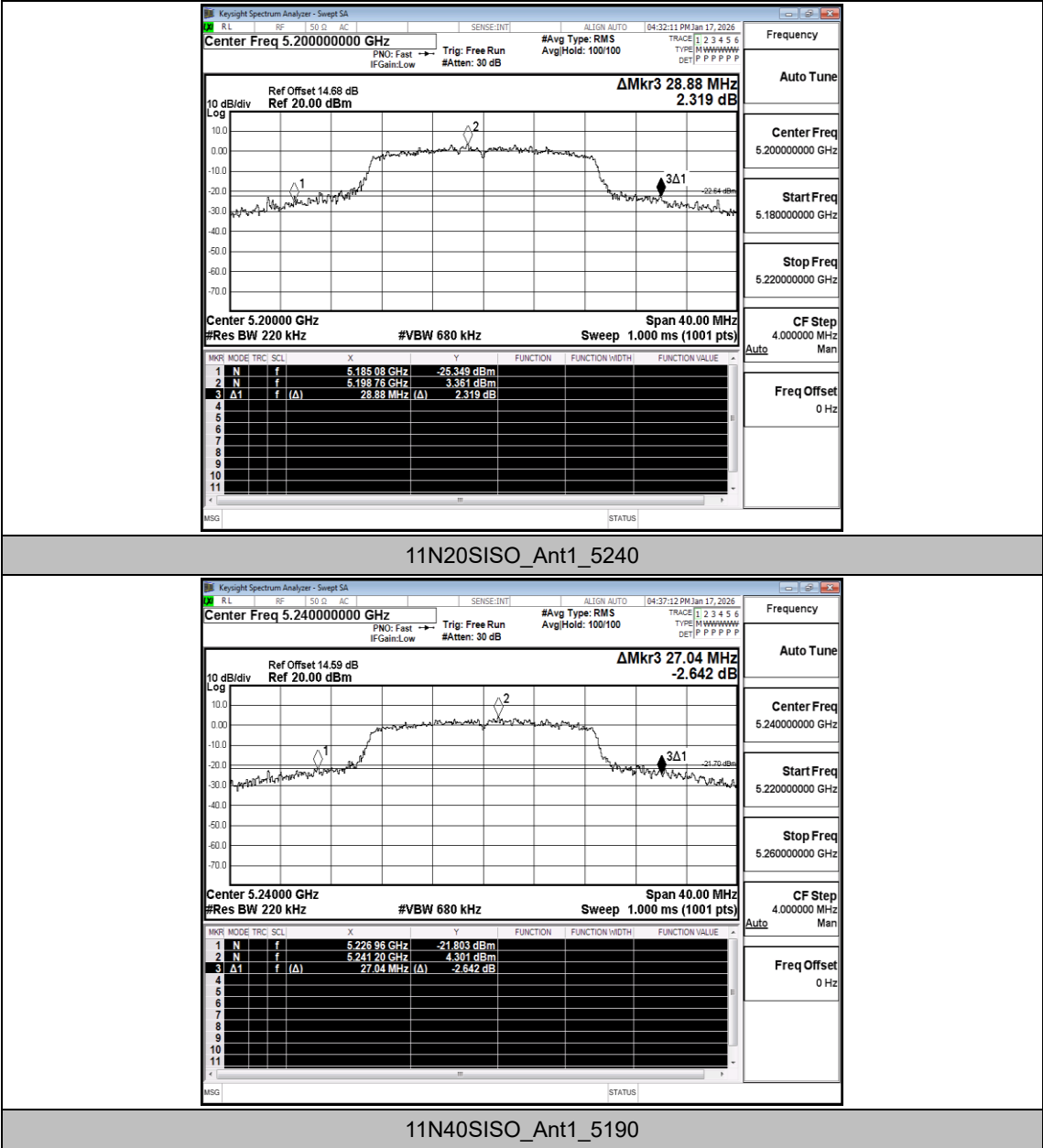
Test Result

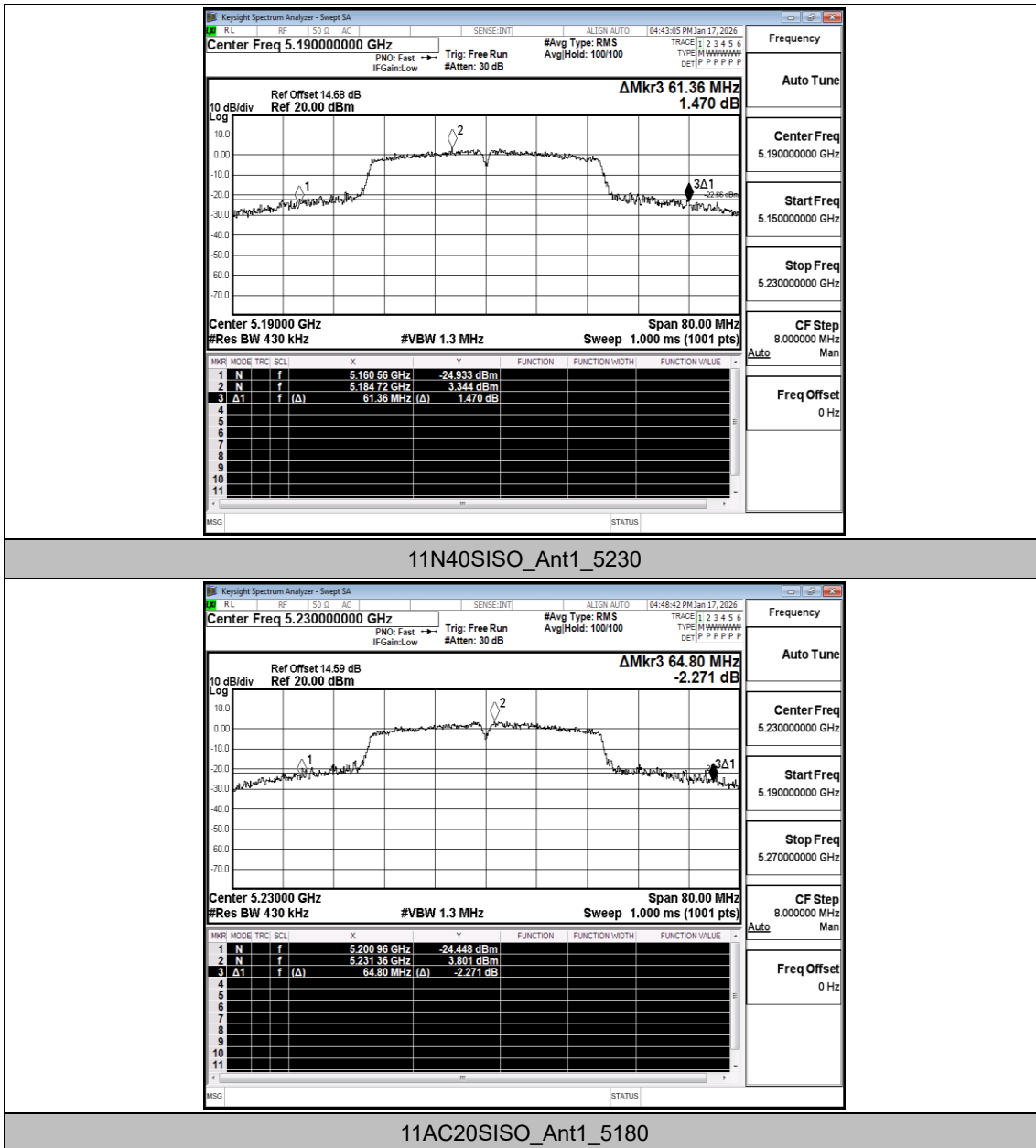
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	28.960	5165.880	5194.840	---	---
		5200	26.840	5187.240	5214.080	---	---
		5240	26.720	5226.800	5253.520	---	---
11N20SISO	Ant1	5180	27.960	5165.720	5193.680	---	---
		5200	28.880	5185.080	5213.960	---	---
		5240	27.040	5226.960	5254.000	---	---
11N40SISO	Ant1	5190	61.360	5160.560	5221.920	---	---
		5230	64.800	5200.960	5265.760	---	---
11AC20SISO	Ant1	5180	27.320	5167.040	5194.360	---	---
		5200	25.840	5186.960	5212.800	---	---
		5240	22.960	5228.800	5251.760	---	---
11AC40SISO	Ant1	5190	69.680	5154.720	5224.400	---	---
		5230	61.680	5200.800	5262.480	---	---
11AC80SISO	Ant1	5210	140.640	5135.440	5276.080	---	---

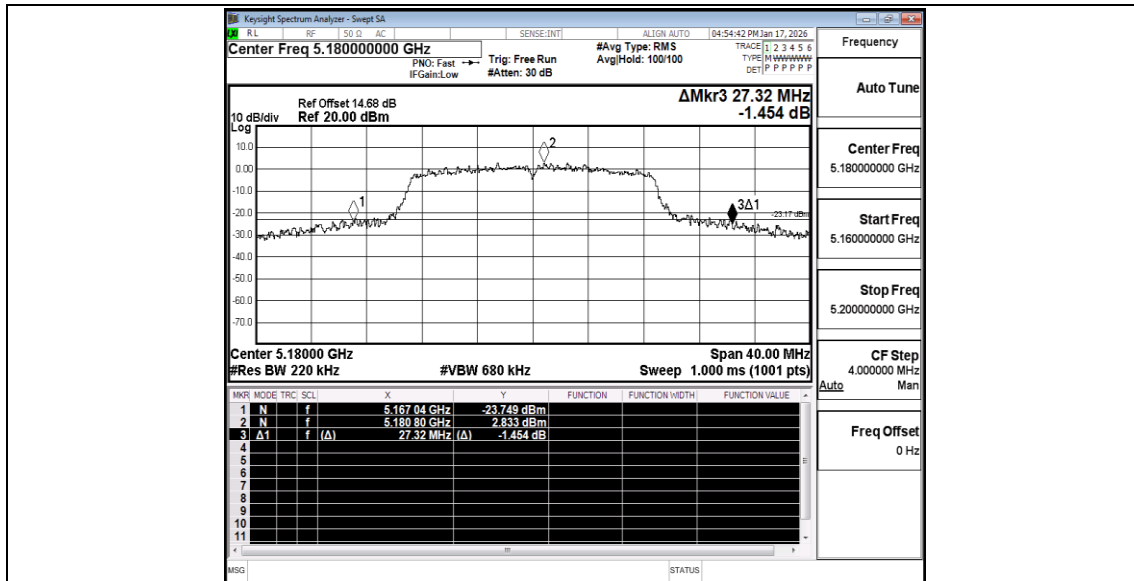
Test Graphs



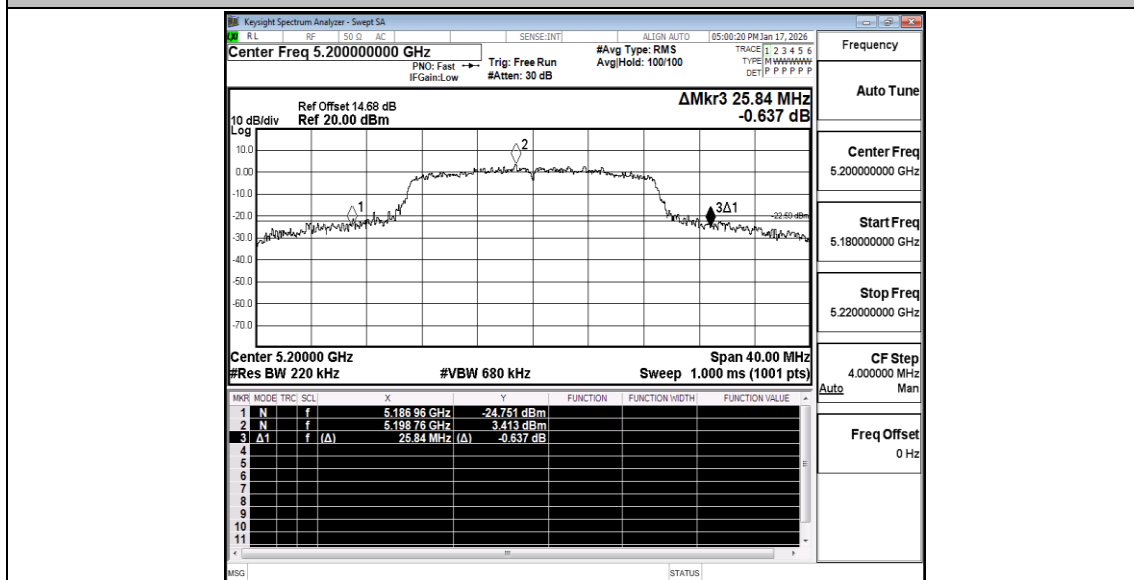




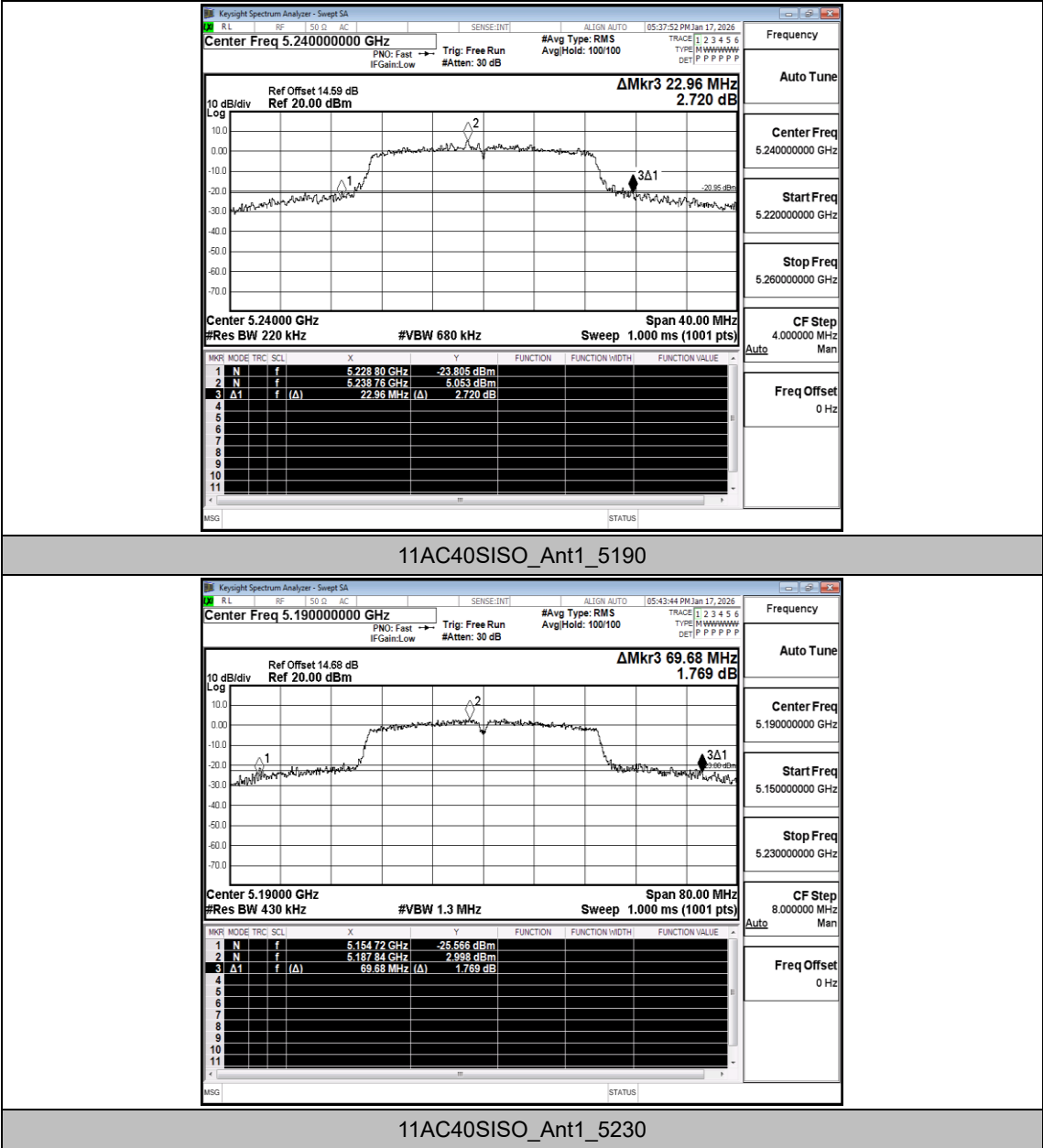


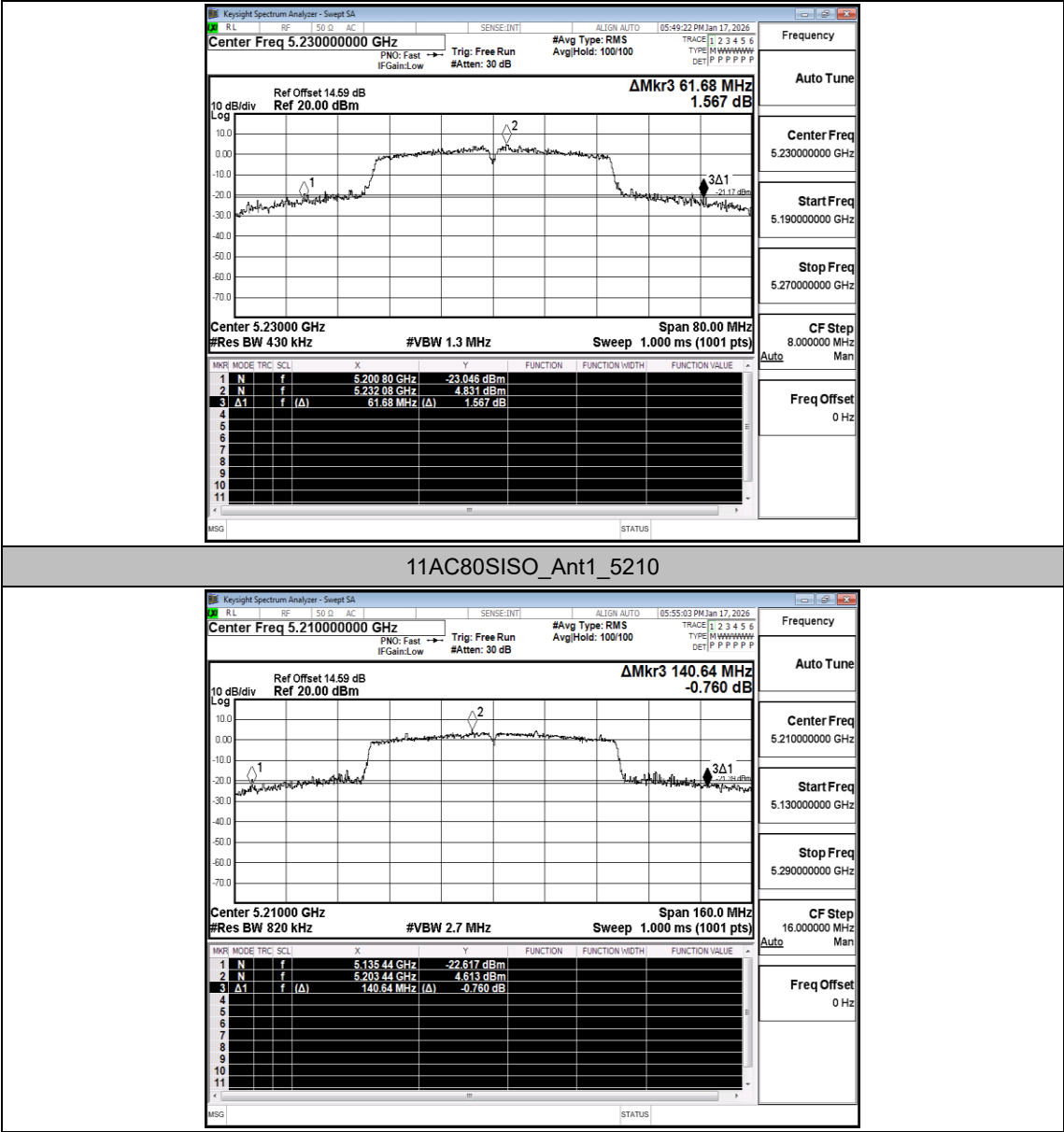


11AC20SISO_Ant1_5200



11AC20SISO Ant1 5240





D.2 Maximum conducted output power

Test Result Channel Power

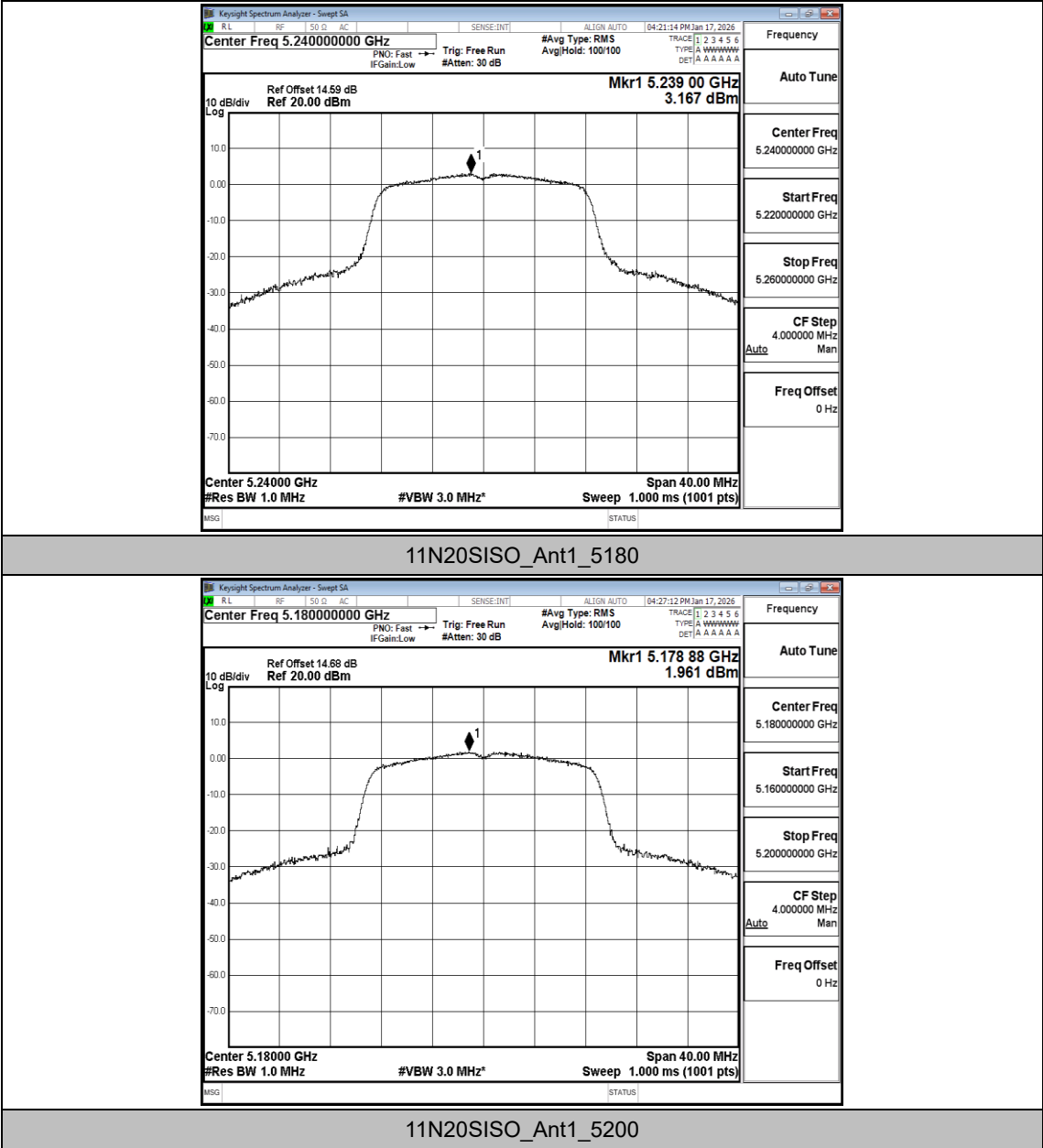
Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	13.41	0.15	13.56	≤23.98	PASS
		5200	NA	13.91	0.15	14.06	≤23.98	PASS
		5240	NA	14.56	0.15	14.71	≤23.98	PASS
11N20SISO	Ant1	5180	NA	13.38	0.16	13.54	≤23.98	PASS
		5200	NA	13.74	0.13	13.87	≤23.98	PASS
		5240	NA	14.57	0.16	14.73	≤23.98	PASS
11N40SISO	Ant1	5190	NA	13.66	0.26	13.92	≤23.98	PASS
		5230	NA	14.48	0.32	14.80	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	13.43	0.13	13.56	≤23.98	PASS
		5200	NA	13.88	0.16	14.04	≤23.98	PASS
		5240	NA	14.77	0.13	14.90	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	13.74	0.26	14.00	≤23.98	PASS
		5230	NA	14.75	0.32	15.07	≤23.98	PASS
11AC80SISO	Ant1	5210	NA	14.05	0.50	14.55	≤23.98	PASS

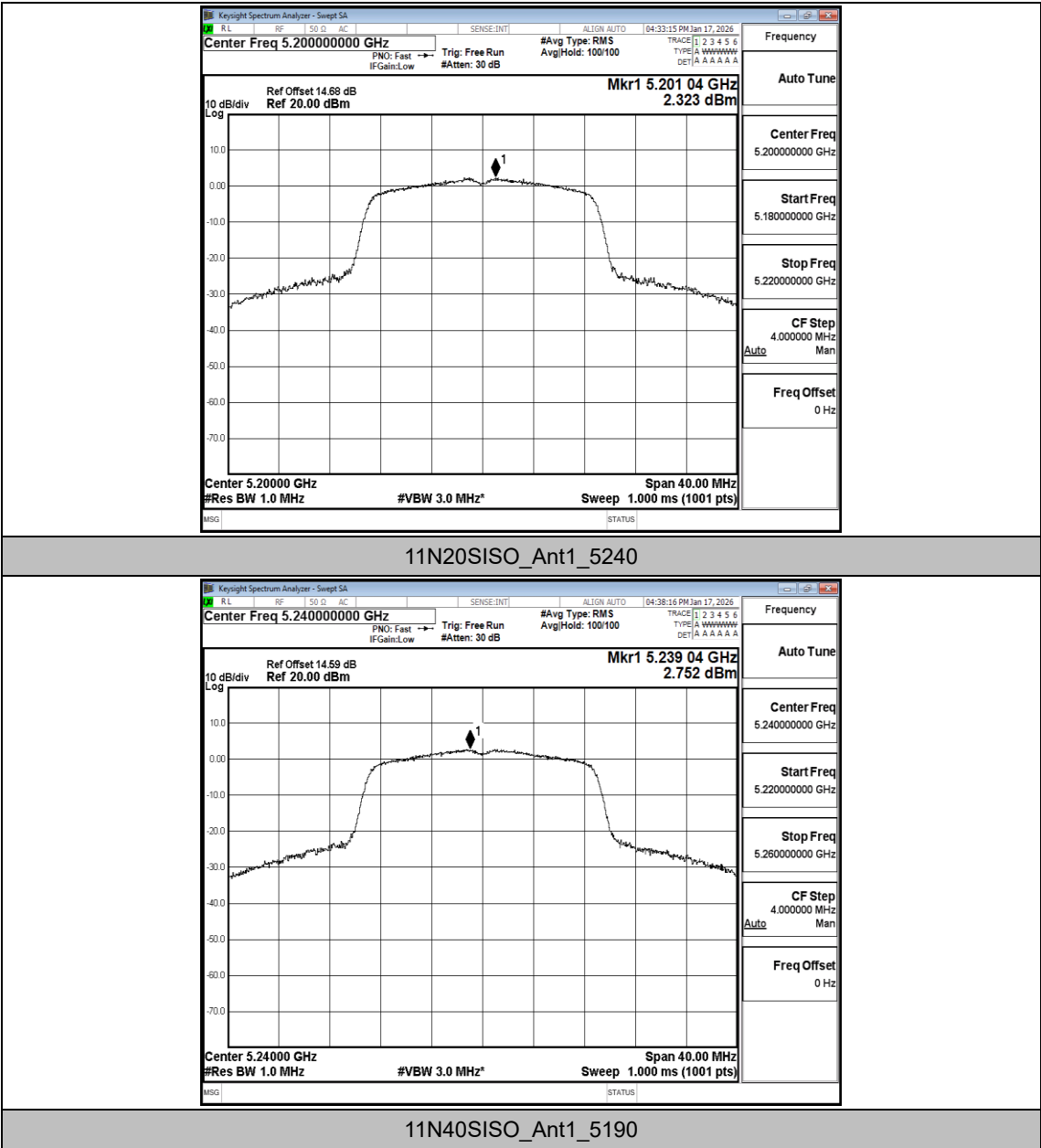
D.3 Maximum power spectral density

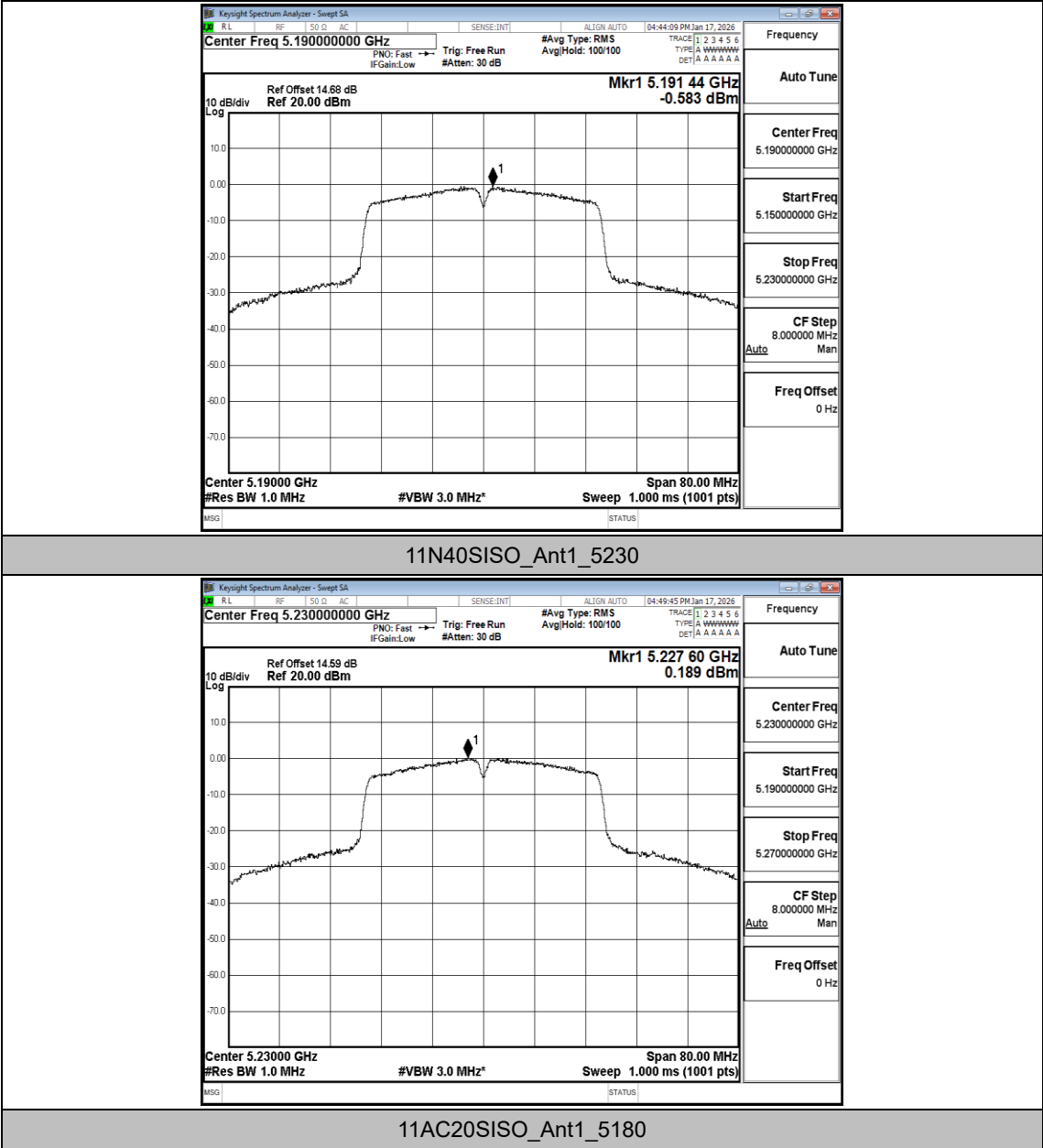
Test Result

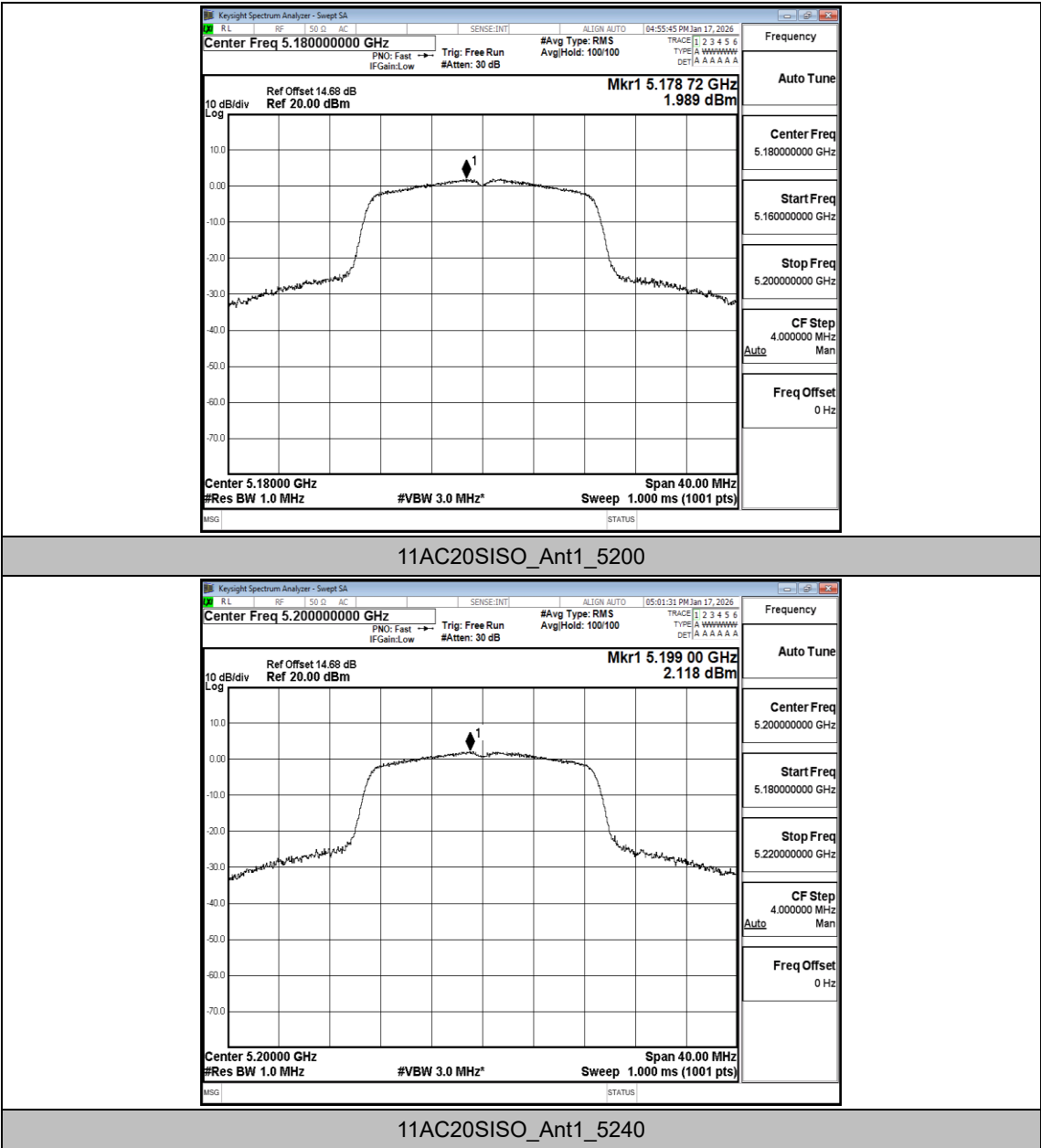
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	2.13	0.15	0.00	2.28	≤11.00	PASS
		5200	2.42	0.15	0.00	2.57	≤11.00	PASS
		5240	3.17	0.15	0.00	3.32	≤11.00	PASS
11N20SISO	Ant1	5180	1.96	0.16	0.00	2.12	≤11.00	PASS
		5200	2.32	0.13	0.00	2.45	≤11.00	PASS
		5240	2.75	0.16	0.00	2.91	≤11.00	PASS
11N40SISO	Ant1	5190	-0.58	0.26	0.00	-0.32	≤11.00	PASS
		5230	0.19	0.32	0.00	0.51	≤11.00	PASS
11AC20SISO	Ant1	5180	1.99	0.13	0.00	2.12	≤11.00	PASS
		5200	2.12	0.16	0.00	2.28	≤11.00	PASS
		5240	3.07	0.13	0.00	3.20	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.33	0.26	0.00	-0.07	≤11.00	PASS
		5230	0.36	0.32	0.00	0.68	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.91	0.50	0.00	-2.41	≤11.00	PASS

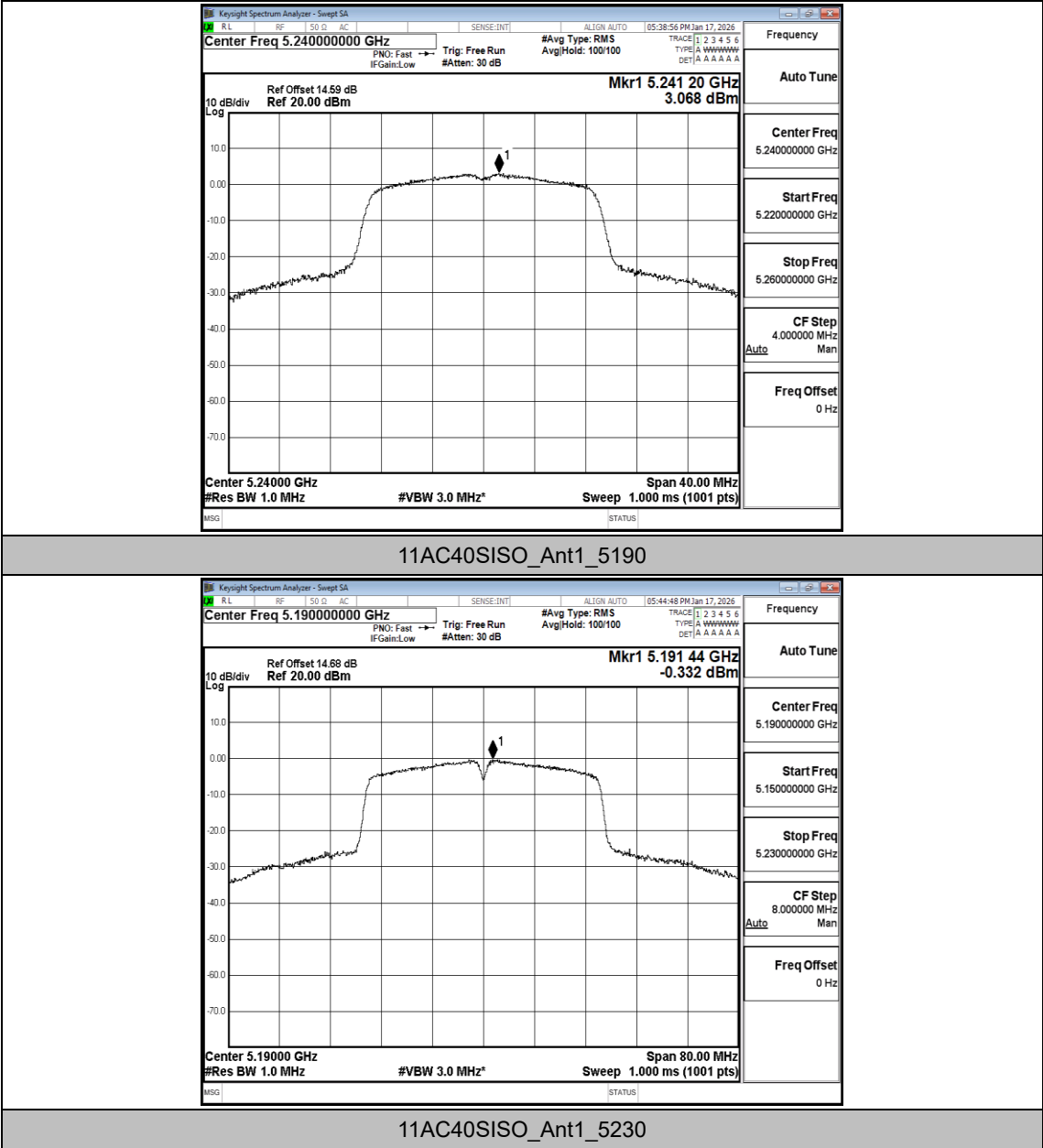
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

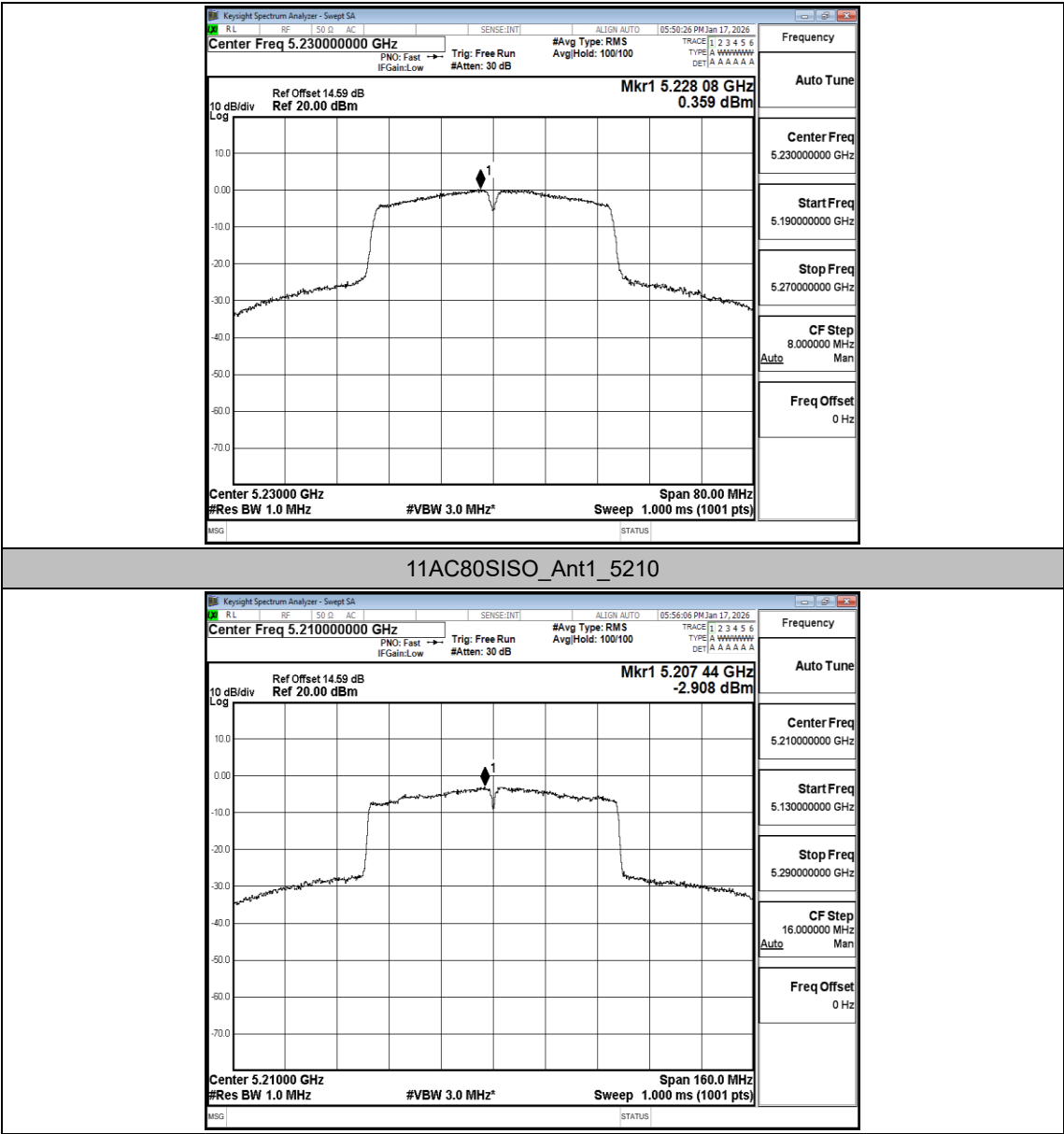












D.4 Emissions in Restricted Bands

Test Result

Test Mode	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	5180	AV	4500.000	-66.66	≤-43.54	2.19	0.15	30.88	≤54	PASS
				AV	5149.600	-46.11	≤-43.54	2.19	0.15	51.43	≤54	PASS
				AV	5150.000	-45.47	≤-43.54	2.19	0.15	52.07	≤54	PASS
				Peak	4500.000	-57.66	≤-23.39	2.19	0.00	39.73	≤74	PASS
				Peak	5149.600	-33.14	≤-23.39	2.19	0.00	64.25	≤74	PASS
				Peak	5150.000	-34.86	≤-23.39	2.19	0.00	62.53	≤74	PASS
		High	5240	AV	5350.000	-61.26	≤-43.54	2.19	0.15	36.28	≤54	PASS
				AV	5406.480	-59.34	≤-43.54	2.19	0.15	38.20	≤54	PASS
				AV	5460.000	-64.85	≤-43.54	2.19	0.15	32.69	≤54	PASS
				Peak	5350.000	-52.22	≤-23.39	2.19	0.00	45.17	≤74	PASS
				Peak	5408.880	-50.93	≤-23.39	2.19	0.00	46.46	≤74	PASS
				Peak	5460.000	-57.88	≤-23.39	2.19	0.00	39.51	≤74	PASS
11N20	Ant1	Low	5180	AV	4500.000	-66.77	≤-43.55	2.19	0.16	30.78	≤54	PASS
				AV	5149.600	-47.31	≤-43.55	2.19	0.16	50.24	≤54	PASS
				AV	5150.000	-46.86	≤-43.55	2.19	0.16	50.69	≤54	PASS
				Peak	4500.000	-59.5	≤-23.39	2.19	0.00	37.89	≤74	PASS
				Peak	5149.600	-33.8	≤-23.39	2.19	0.00	63.59	≤74	PASS
				Peak	5150.000	-37.67	≤-23.39	2.19	0.00	59.72	≤74	PASS
		High	5240	AV	5350.000	-61.55	≤-43.55	2.19	0.16	36.00	≤54	PASS
				AV	5406.240	-59.29	≤-43.55	2.19	0.16	38.26	≤54	PASS
				AV	5460.000	-64.93	≤-43.55	2.19	0.16	32.62	≤54	PASS
				Peak	5350.000	-53.08	≤-23.39	2.19	0.00	44.31	≤74	PASS
				Peak	5406.720	-50.48	≤-23.39	2.19	0.00	46.91	≤74	PASS
				Peak	5460.000	-55.6	≤-23.39	2.19	0.00	41.79	≤74	PASS
11N40	Ant1	Low	5190	AV	4500.000	-66.45	≤-43.65	2.19	0.26	31.20	≤54	PASS
				AV	5149.600	-52.86	≤-43.65	2.19	0.26	44.79	≤54	PASS
				AV	5150.000	-51.7	≤-43.65	2.19	0.26	45.95	≤54	PASS
				Peak	4500.000	-59.69	≤-23.39	2.19	0.00	37.70	≤74	PASS
				Peak	5149.600	-33.83	≤-23.39	2.19	0.00	63.56	≤74	PASS
				Peak	5150.000	-37.4	≤-23.39	2.19	0.00	59.99	≤74	PASS
		High	5230	AV	5350.000	-59.2	≤-43.71	2.19	0.32	38.51	≤54	PASS
				AV	5351.060	-58.88	≤-43.71	2.19	0.32	38.83	≤54	PASS
				AV	5460.000	-64.55	≤-43.71	2.19	0.32	33.16	≤54	PASS
				Peak	5350.000	-50.2	≤-23.39	2.19	0.00	47.19	≤74	PASS

				Peak	5379.920	-46.62	≤-23.39	2.19	0.00	50.77	≤74	PASS
				Peak	5460.000	-56.18	≤-23.39	2.19	0.00	41.21	≤74	PASS
11AC20	Ant1	Low	5180	AV	4500.000	-66.29	≤-43.52	2.19	0.13	31.23	≤54	PASS
				AV	5149.600	-44.46	≤-43.52	2.19	0.13	53.06	≤54	PASS
				AV	5150.000	-44.73	≤-43.52	2.19	0.13	52.79	≤54	PASS
				Peak	4500.000	-57.55	≤-23.39	2.19	0.00	39.84	≤74	PASS
				Peak	5147.500	-35.03	≤-23.39	2.19	0.00	62.36	≤74	PASS
				Peak	5150.000	-36.15	≤-23.39	2.19	0.00	61.24	≤74	PASS
		High	5240	AV	5350.000	-60.54	≤-43.52	2.19	0.13	36.98	≤54	PASS
				AV	5406.000	-59.49	≤-43.52	2.19	0.13	38.03	≤54	PASS
				AV	5460.000	-64.96	≤-43.52	2.19	0.13	32.56	≤54	PASS
				Peak	5350.000	-53.95	≤-23.39	2.19	0.00	43.44	≤74	PASS
				Peak	5409.600	-50.1	≤-23.39	2.19	0.00	47.29	≤74	PASS
				Peak	5460.000	-56.32	≤-23.39	2.19	0.00	41.07	≤74	PASS
11AC40	Ant1	Low	5190	AV	4500.000	-66.38	≤-43.71	2.19	0.32	31.33	≤54	PASS
				AV	5149.600	-53.43	≤-43.71	2.19	0.32	44.28	≤54	PASS
				AV	5150.000	-53.44	≤-43.71	2.19	0.32	44.27	≤54	PASS
				Peak	4500.000	-59.1	≤-23.39	2.19	0.00	38.29	≤74	PASS
				Peak	5148.900	-36.44	≤-23.39	2.19	0.00	60.95	≤74	PASS
				Peak	5150.000	-37.7	≤-23.39	2.19	0.00	59.69	≤74	PASS
		High	5230	AV	5350.000	-57.68	≤-43.71	2.19	0.32	40.03	≤54	PASS
				AV	5350.020	-57.68	≤-43.71	2.19	0.32	40.03	≤54	PASS
				AV	5460.000	-64.78	≤-43.71	2.19	0.32	32.93	≤54	PASS
				Peak	5350.000	-47.14	≤-23.39	2.19	0.00	50.25	≤74	PASS
				Peak	5351.580	-46.48	≤-23.39	2.19	0.00	50.91	≤74	PASS
				Peak	5460.000	-57.91	≤-23.39	2.19	0.00	39.48	≤74	PASS
11AC80	Ant1	Low	5210	AV	4500.000	-66.9	≤-44.02	2.19	0.63	31.12	≤54	PASS
				AV	5148.750	-48.43	≤-44.02	2.19	0.63	49.59	≤54	PASS
				AV	5150.000	-49.66	≤-44.02	2.19	0.63	48.36	≤54	PASS
				Peak	4500.000	-59.3	≤-23.39	2.19	0.00	38.09	≤74	PASS
				Peak	5148.750	-35.46	≤-23.39	2.19	0.00	61.93	≤74	PASS
				Peak	5150.000	-34.43	≤-23.39	2.19	0.00	62.96	≤74	PASS
		High	5210	AV	5350.000	-47.8	≤-43.89	2.19	0.50	50.09	≤54	PASS
				AV	5352.200	-47.35	≤-43.89	2.19	0.50	50.54	≤54	PASS
				AV	5460.000	-62.46	≤-43.89	2.19	0.50	35.43	≤54	PASS
				Peak	5350.000	-39.94	≤-23.39	2.19	0.00	57.45	≤74	PASS
				Peak	5350.240	-33.7	≤-23.39	2.19	0.00	63.69	≤74	PASS
				Peak	5460.000	-54.38	≤-23.39	2.19	0.00	43.01	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.

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2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

