



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Tablet

Test Model: RT1

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





E.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant	5745	14.200	5738.320	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant	5775	75.200	5737.400	5812.600	0.5	PASS





Test Graphs

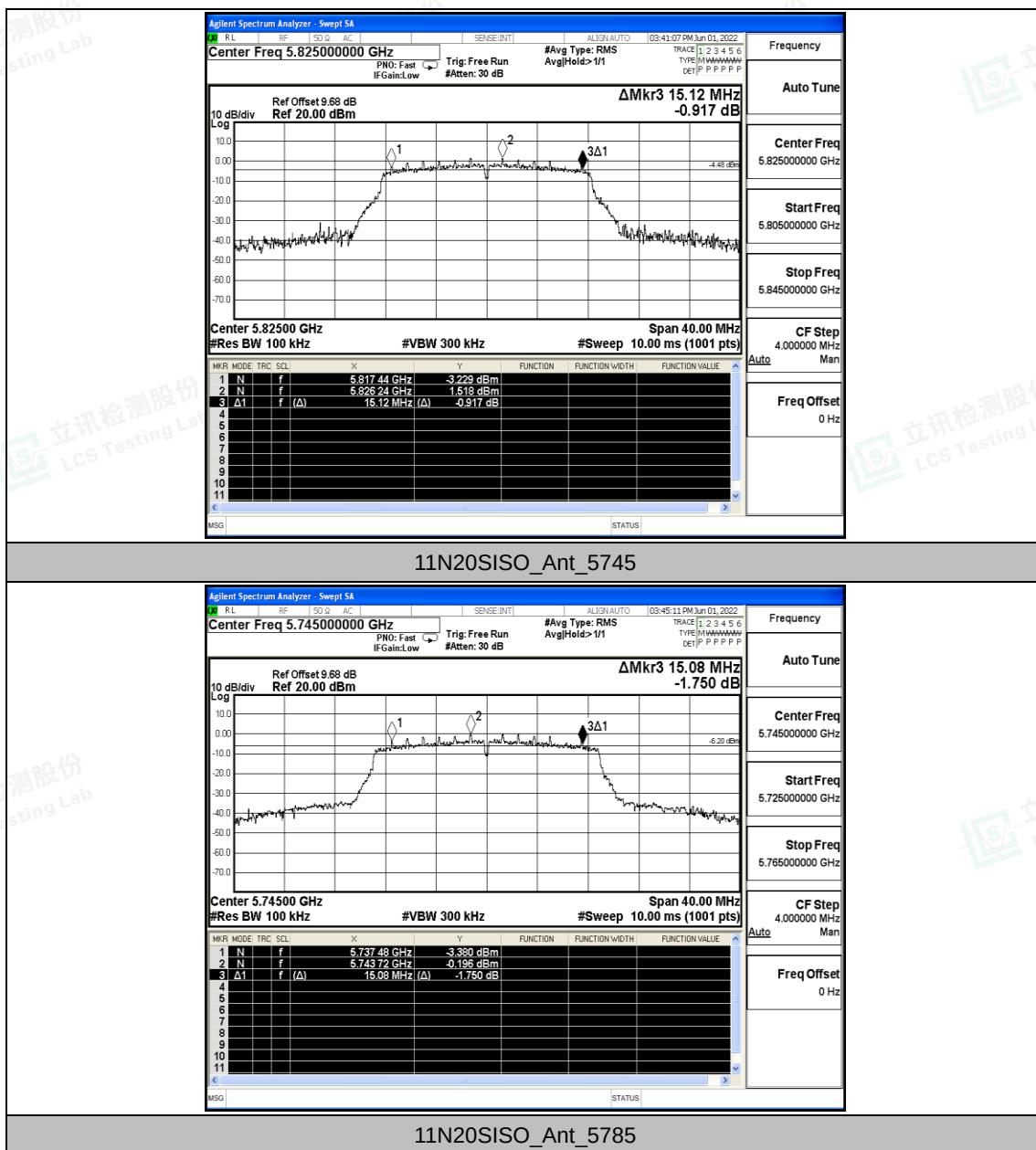


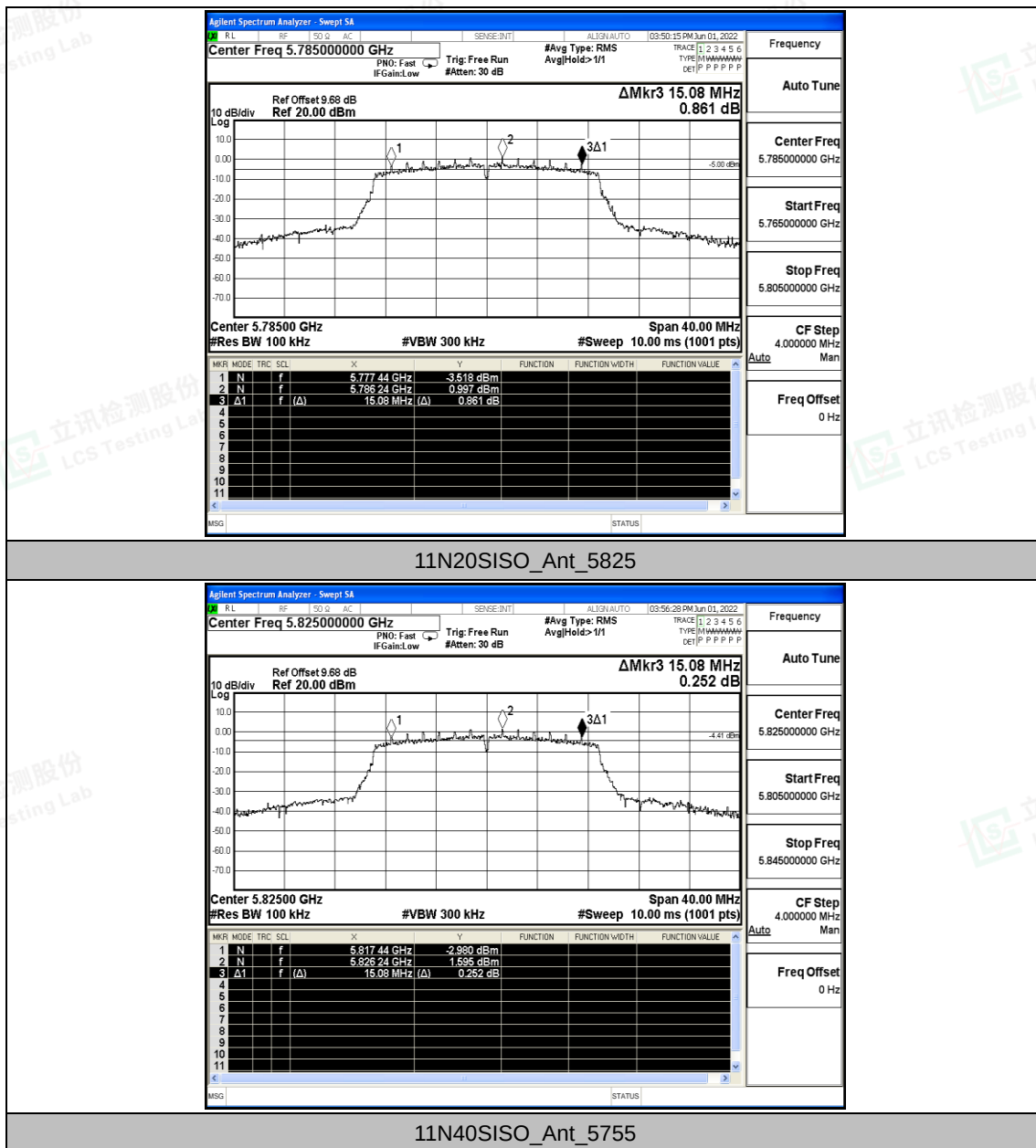
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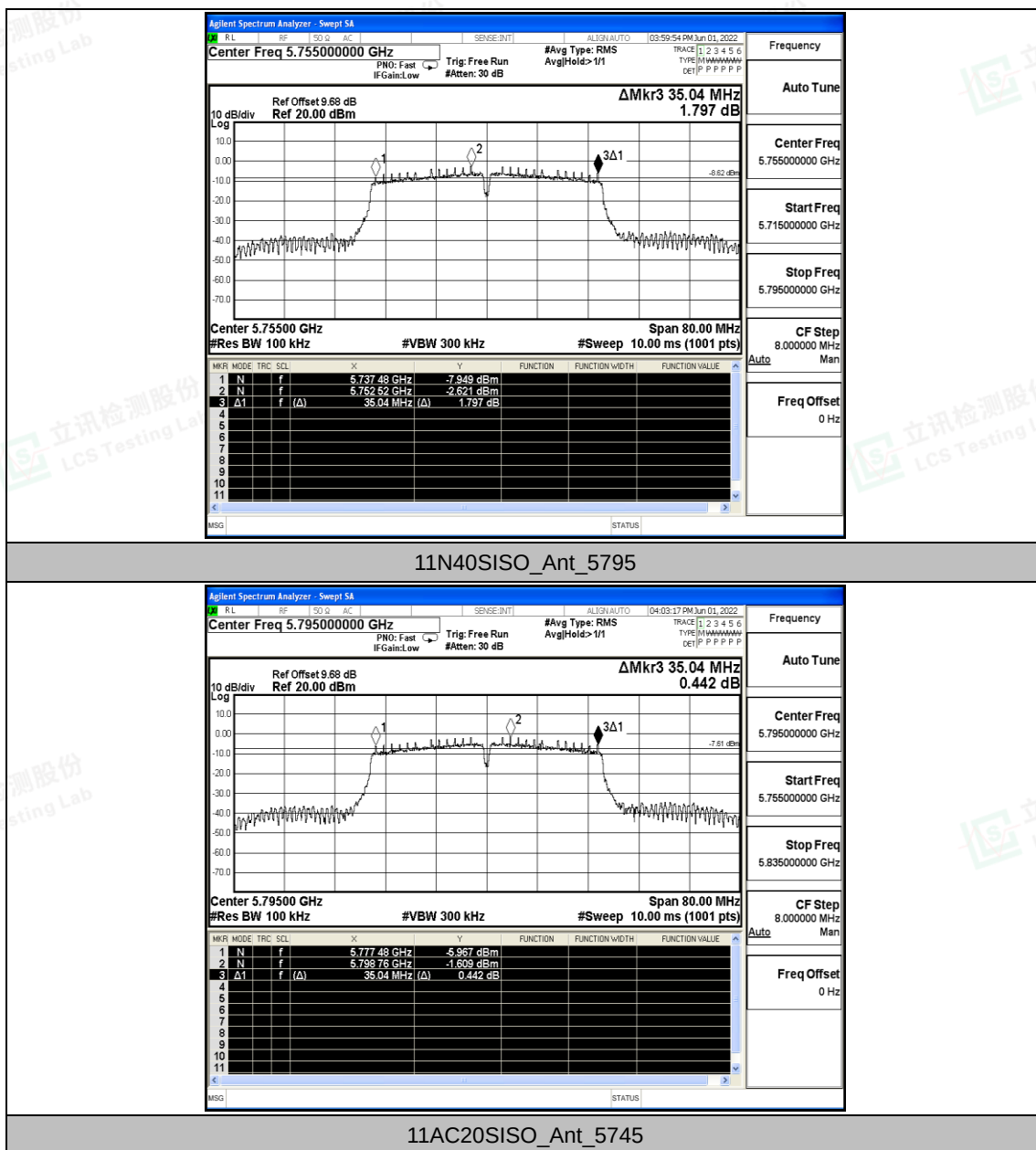
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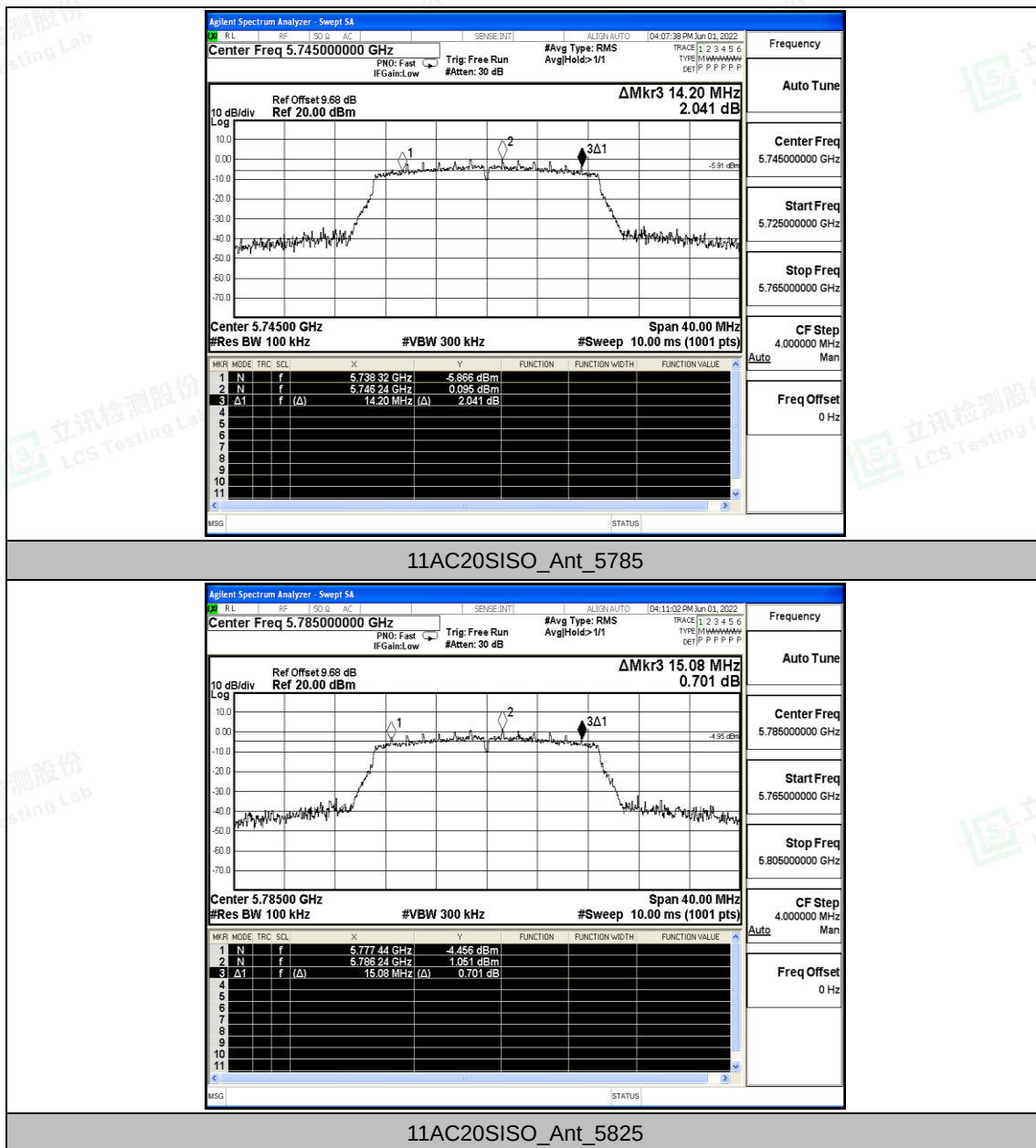
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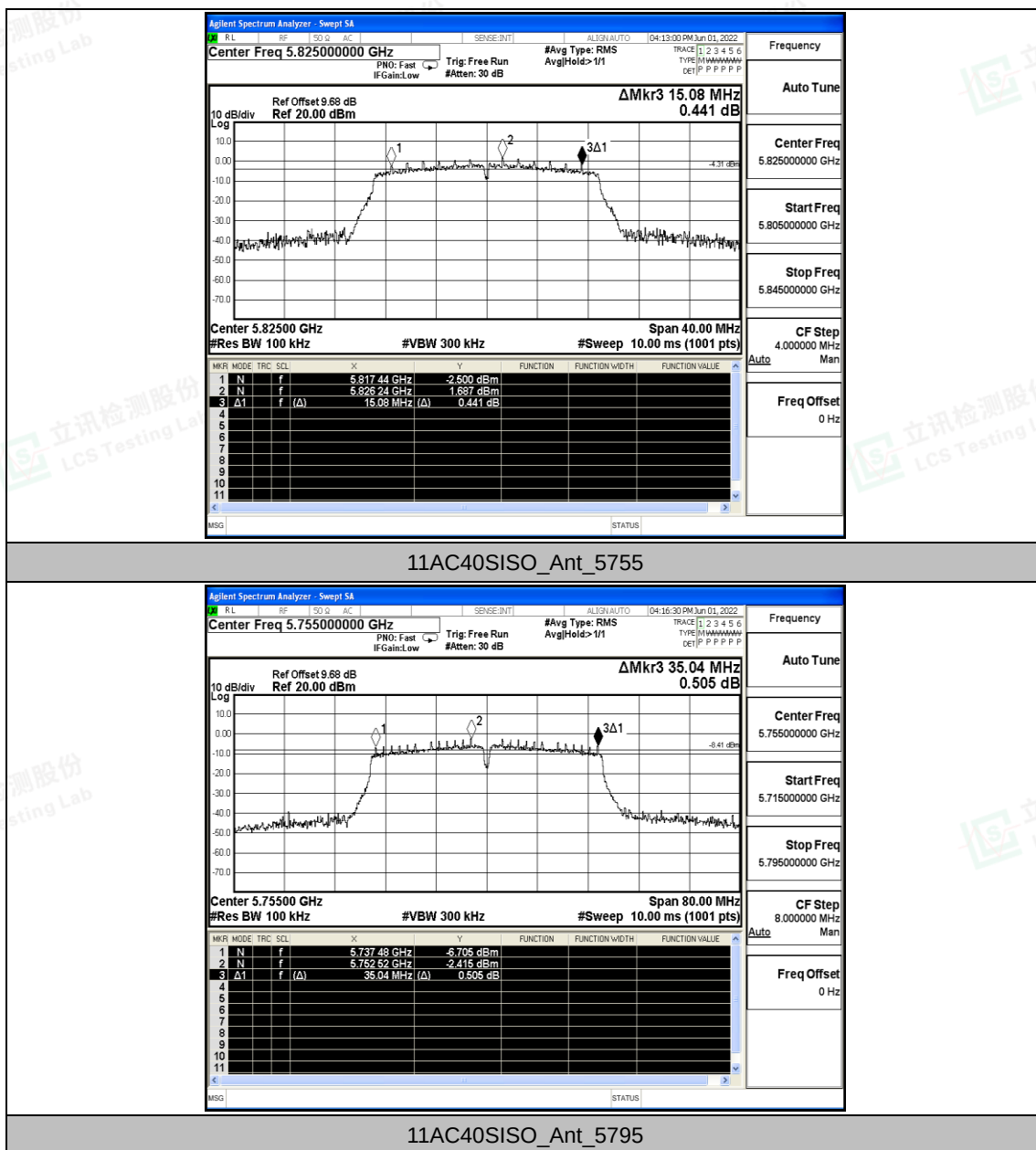
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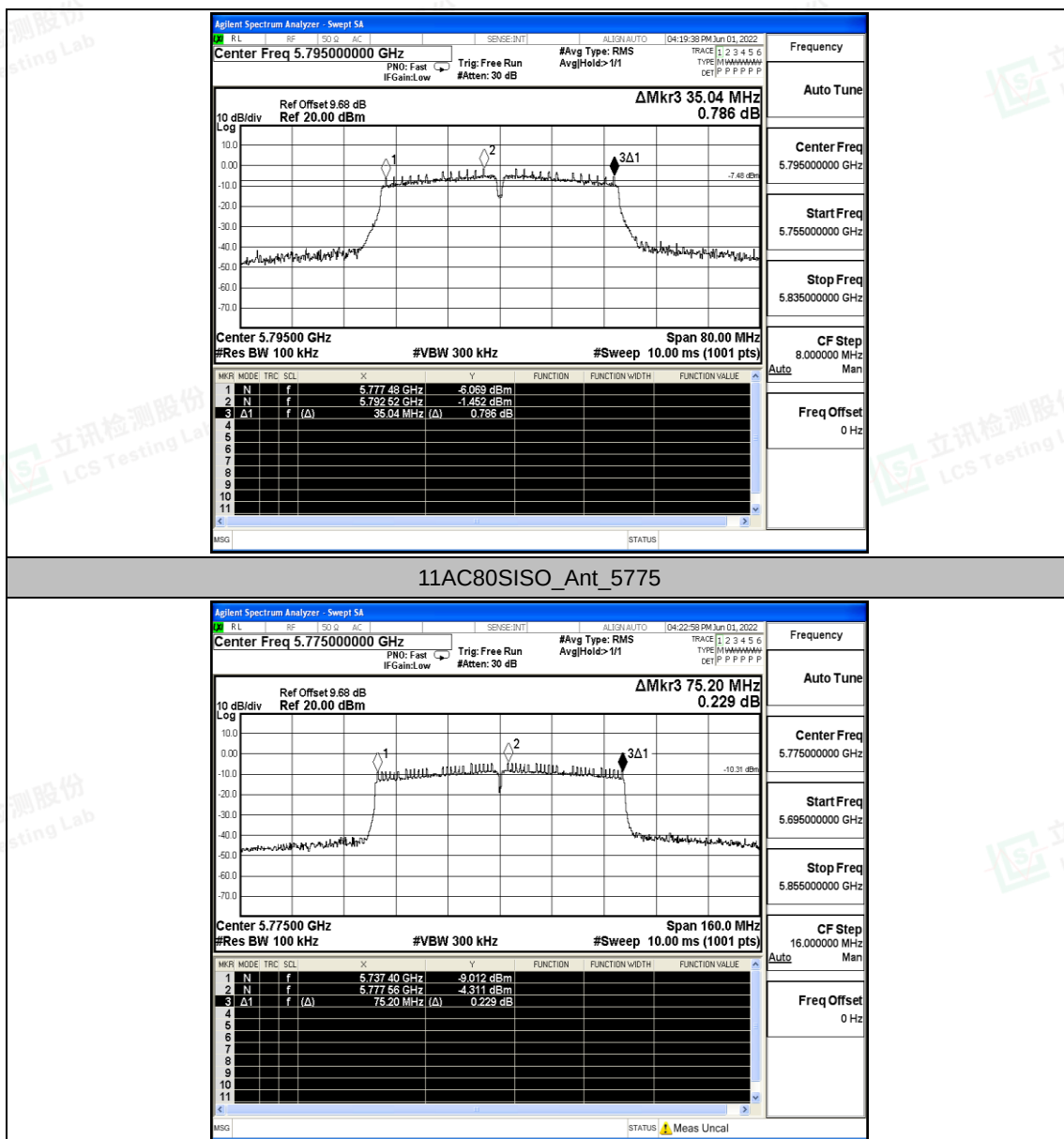














E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5745	10.49	≤30.00	PASS
		5785	11.46	≤30.00	PASS
		5825	12.15	≤30.00	PASS
11N20SISO	Ant	5745	10.48	≤30.00	PASS
		5785	11.31	≤30.00	PASS
		5825	11.90	≤30.00	PASS
11N40SISO	Ant	5755	10.68	≤30.00	PASS
		5795	11.59	≤30.00	PASS
11AC20SISO	Ant	5745	10.67	≤30.00	PASS
		5785	11.25	≤30.00	PASS
		5825	12.05	≤30.00	PASS
11AC40SISO	Ant	5755	10.60	≤30.00	PASS
		5795	11.52	≤30.00	PASS
11AC80SISO	Ant	5775	11.01	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.



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E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant	5745	-2.78	≤30.00	PASS
		5785	-1.84	≤30.00	PASS
		5825	-1.1	≤30.00	PASS
11N20SISO	Ant	5745	-3.01	≤30.00	PASS
		5785	-2.1	≤30.00	PASS
		5825	-1.49	≤30.00	PASS
11N40SISO	Ant	5755	-5.74	≤30.00	PASS
		5795	-4.79	≤30.00	PASS
11AC20SISO	Ant	5745	-2.9	≤30.00	PASS
		5785	-2.19	≤30.00	PASS
		5825	-1.37	≤30.00	PASS
11AC40SISO	Ant	5755	-5.75	≤30.00	PASS
		5795	-4.86	≤30.00	PASS
11AC80SISO	Ant	5775	-8.58	≤30.00	PASS

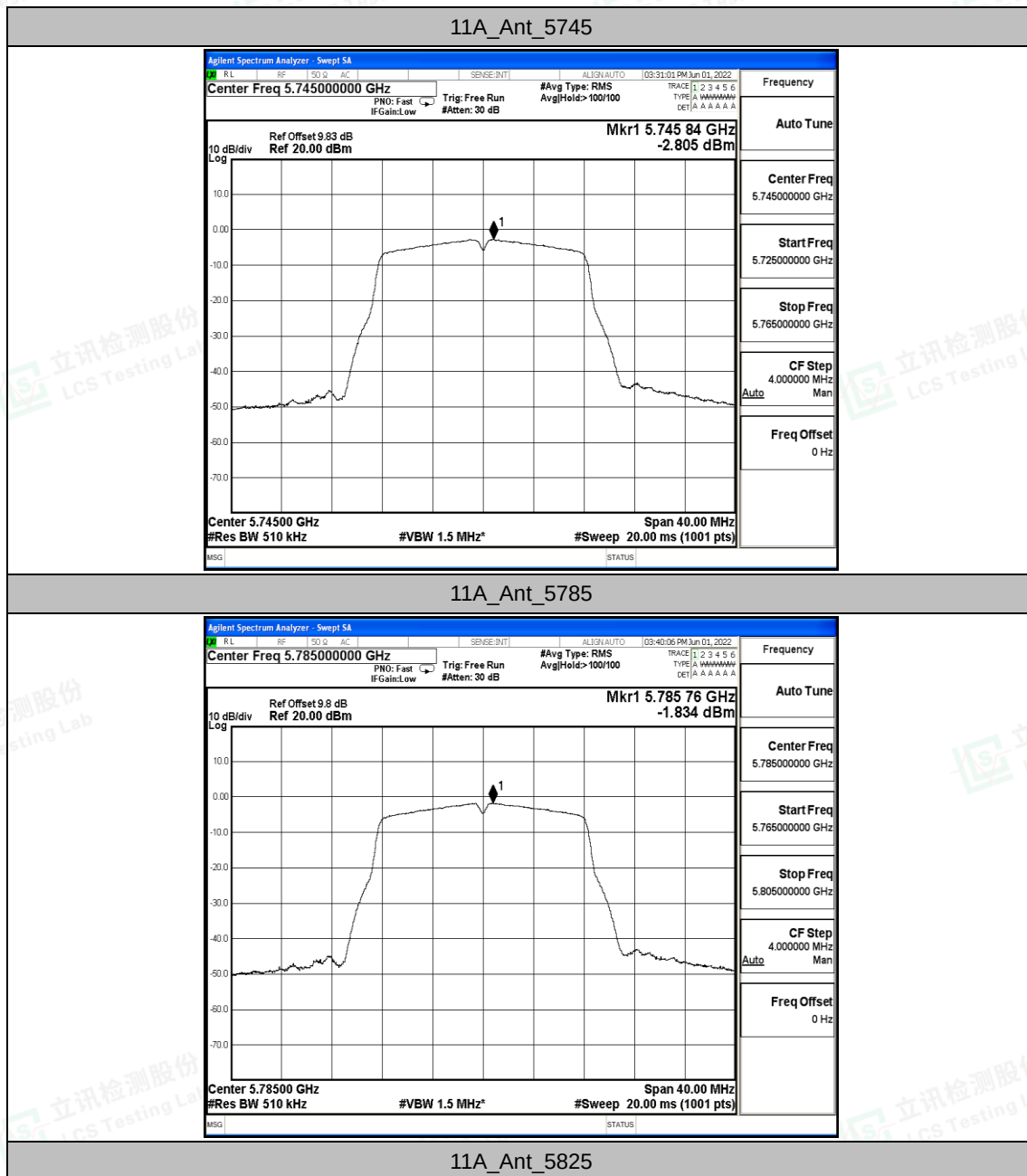
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

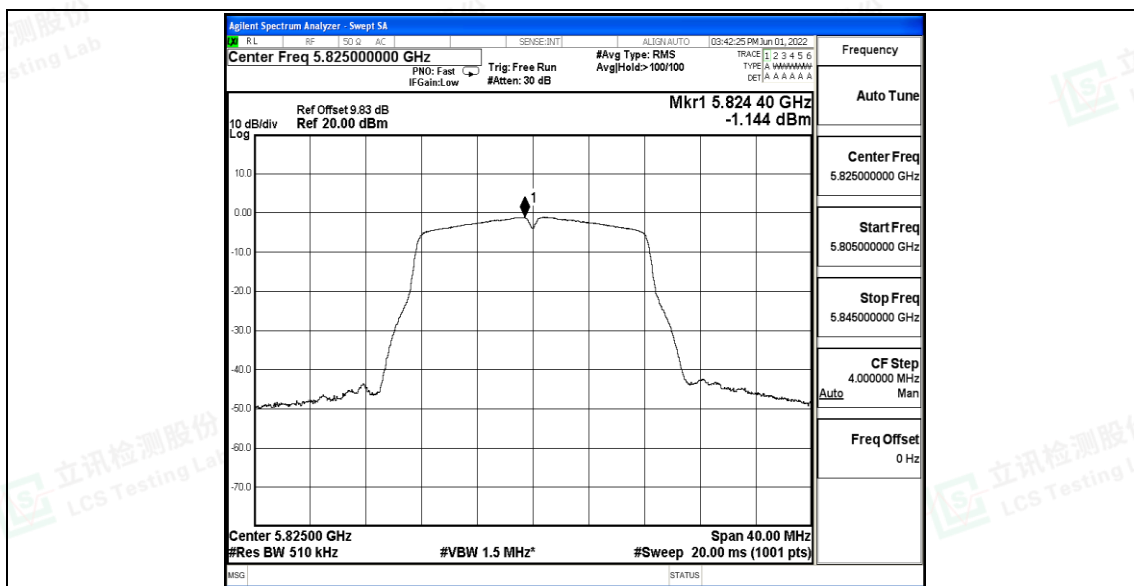
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



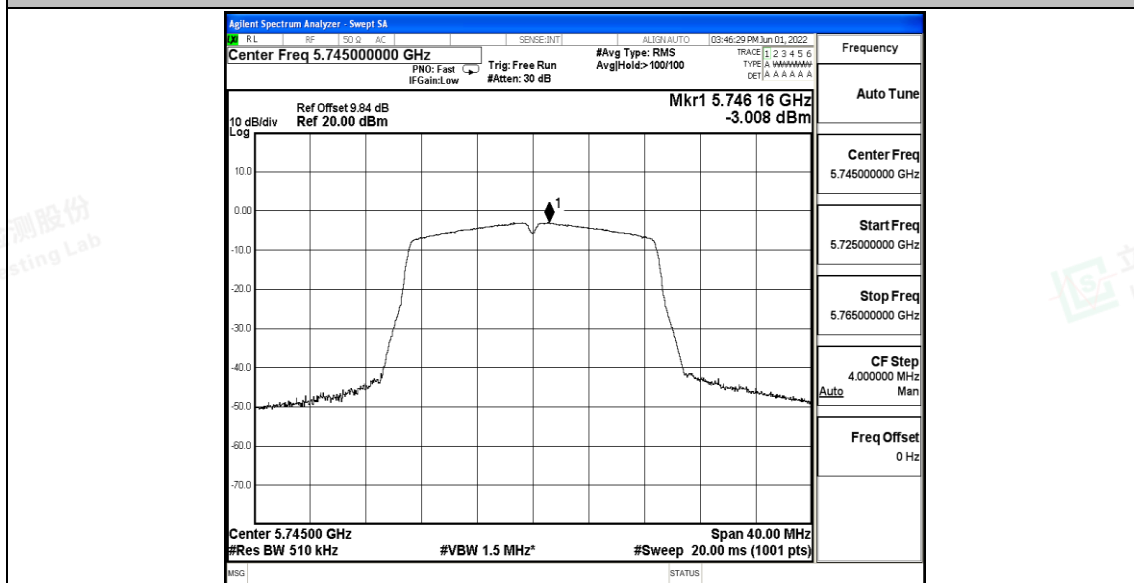


Test Graphs



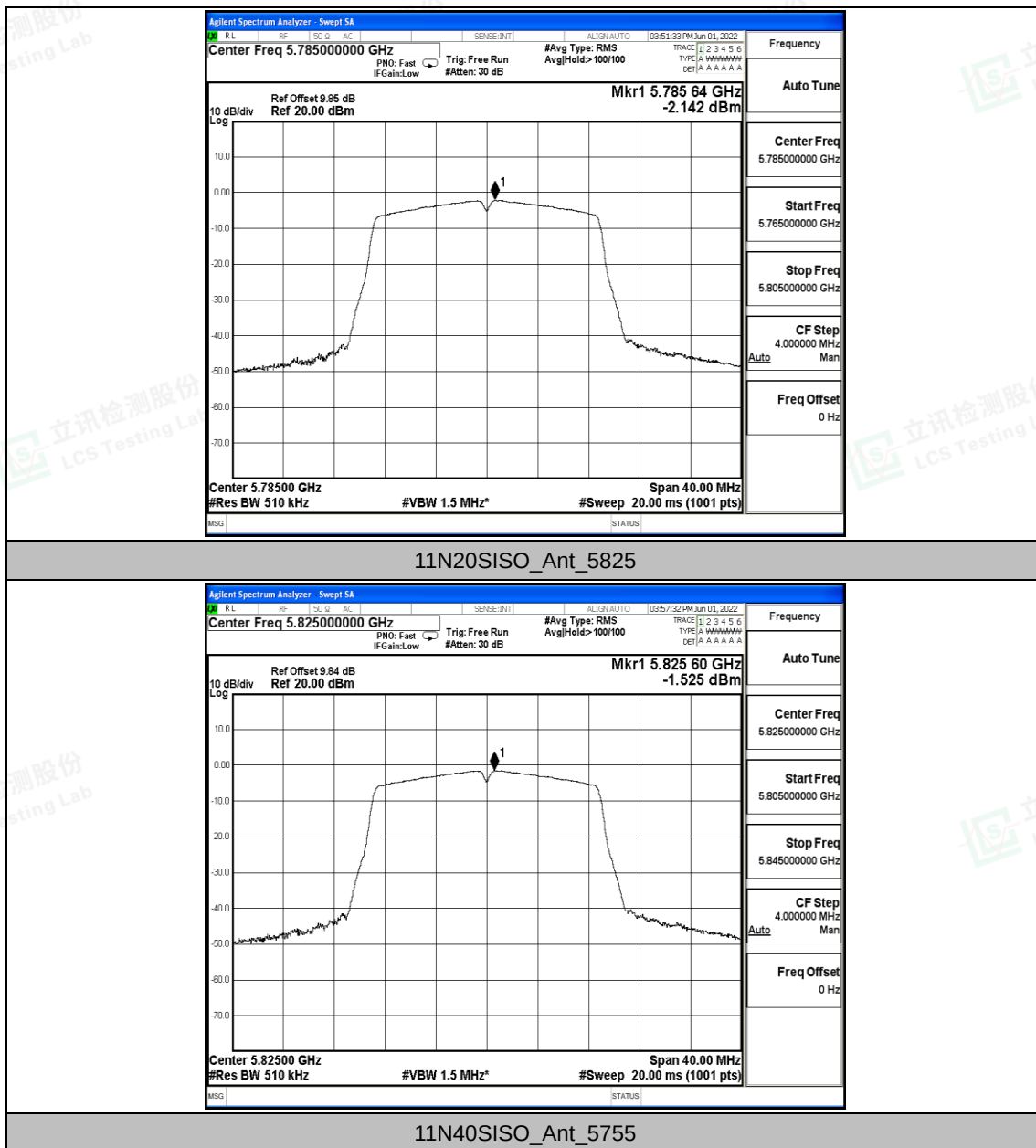


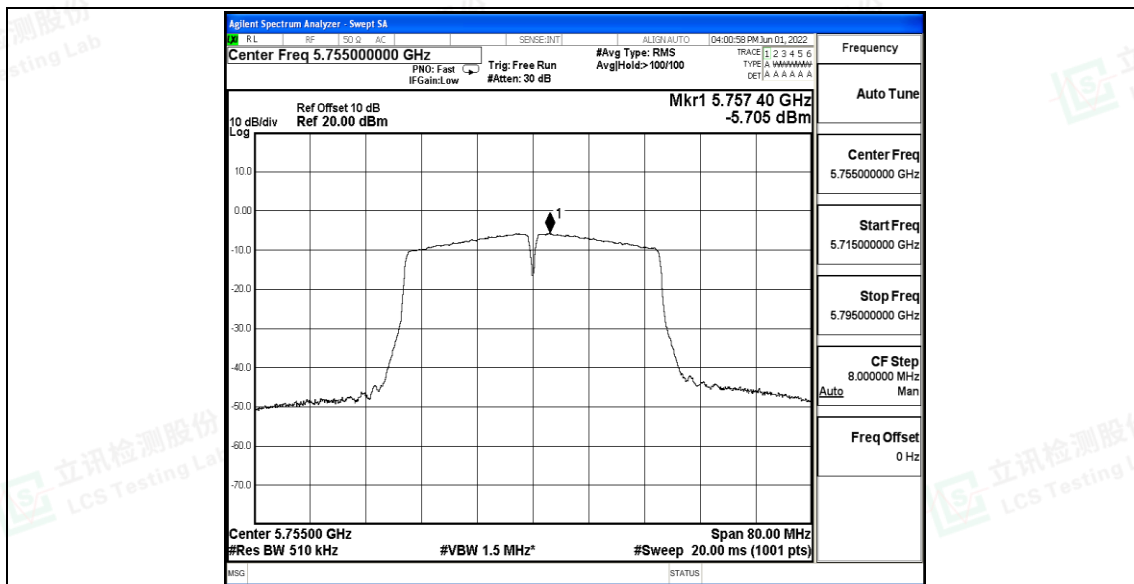
11N20SISO_Ant_5745



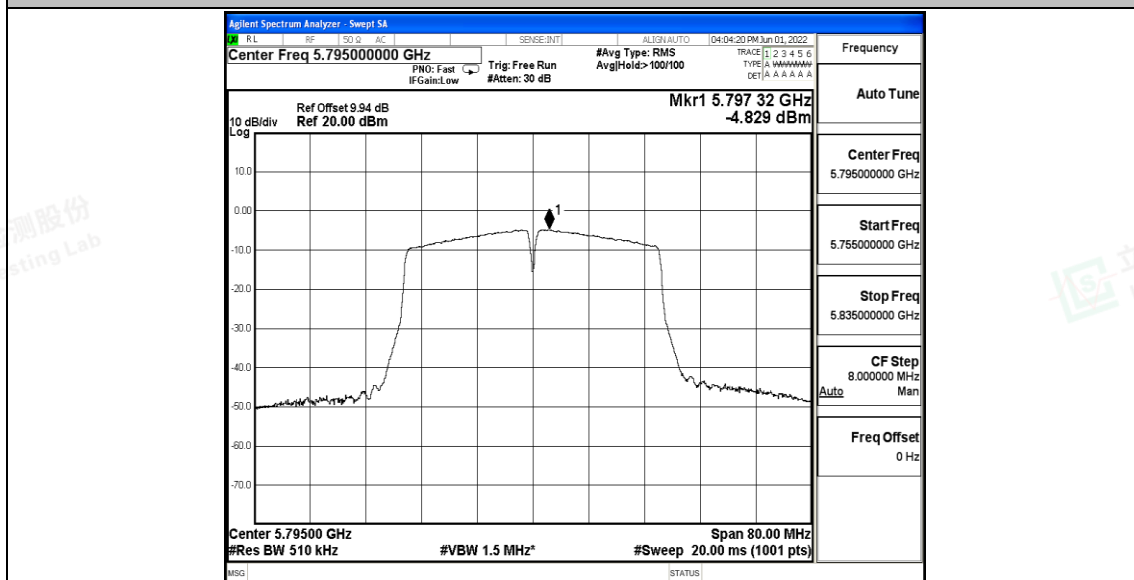
11N20SISO_Ant_5785





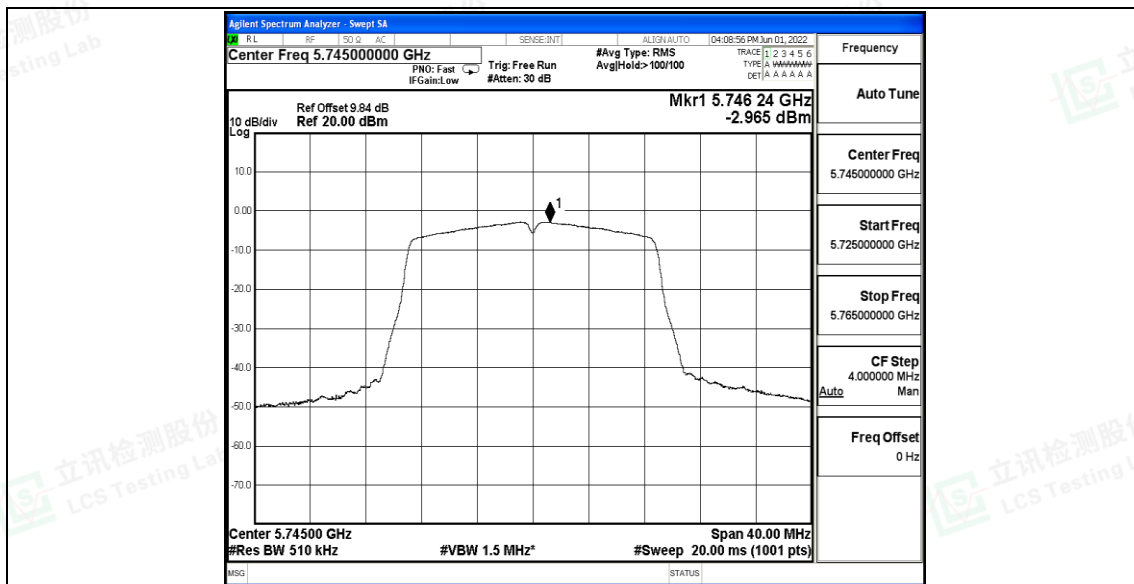


11N40SISO_Ant_5795

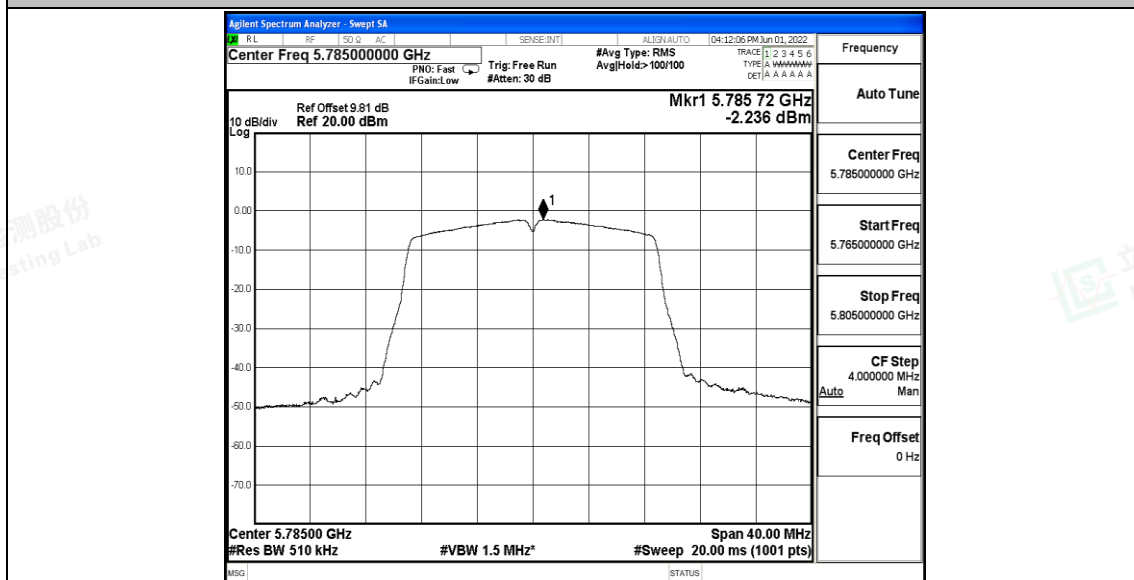


11AC20SISO_Ant_5745



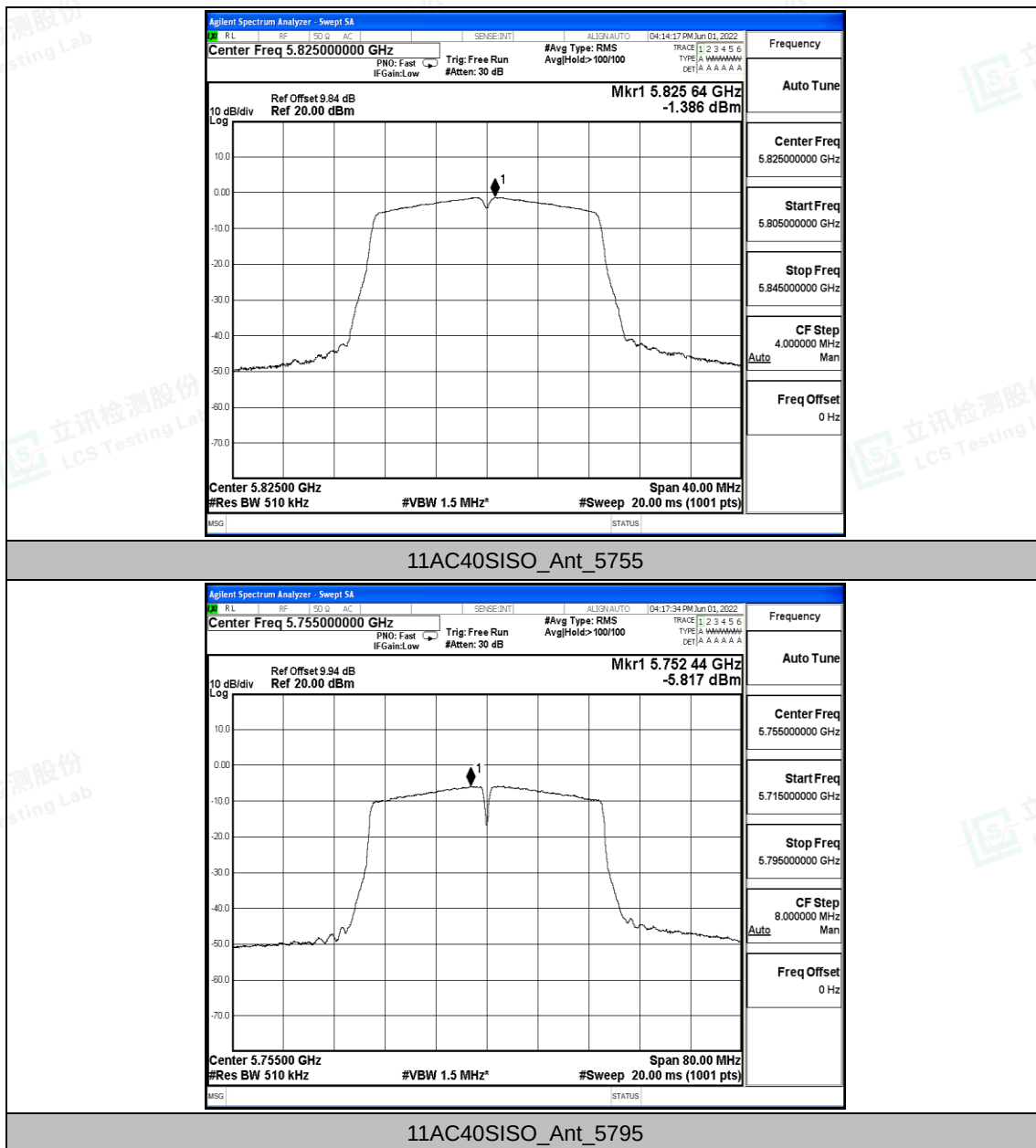


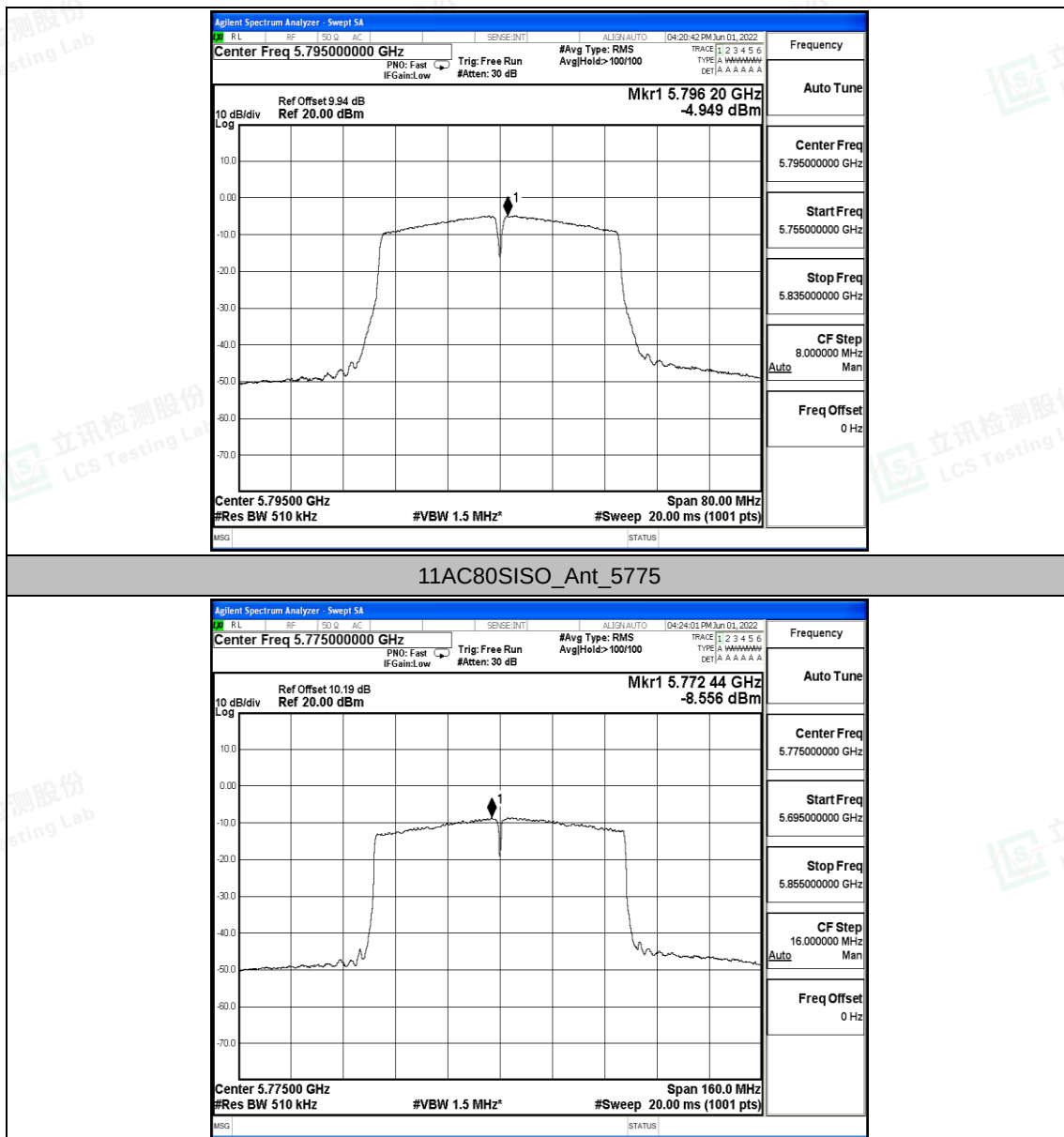
11AC20SISO_Ant_5785



11AC20SISO_Ant_5825









E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant	Low	5745	Peak	5650.000	-38.291	≤-27.00	---	---	PASS
				Peak	5700.000	-38.46	≤10.00	---	---	PASS
				Peak	5720.000	-35.66	≤15.60	---	---	PASS
				Peak	5725.000	-24.44	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-29.993	≤15.60	---	---	PASS
				Peak	5855.000	-34.83	≤27.00	---	---	PASS
				Peak	5875.000	-37.49	≤15.60	---	---	PASS
				Peak	5925.000	-37.63	≤10.00	---	---	PASS
11N20SIS O	Ant	Low	5745	Peak	5650.000	-38.526	≤-27.00	---	---	PASS
				Peak	5700.000	-37.81	≤10.00	---	---	PASS
				Peak	5720.000	-33.87	≤15.60	---	---	PASS
				Peak	5725.000	-23.45	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-29.803	≤15.60	---	---	PASS
				Peak	5855.000	-33.72	≤27.00	---	---	PASS
				Peak	5875.000	-37.9	≤15.60	---	---	PASS
				Peak	5925.000	-38.16	≤10.00	---	---	PASS
11N40SIS O	Ant	Low	5755	Peak	5650.000	-37.749	≤-27.00	---	---	PASS
				Peak	5700.000	-37.05	≤10.00	---	---	PASS
				Peak	5720.000	-22.11	≤15.60	---	---	PASS
				Peak	5725.000	-20.61	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-34.494	≤15.60	---	---	PASS
				Peak	5855.000	-36.17	≤27.00	---	---	PASS
				Peak	5875.000	-37.53	≤15.60	---	---	PASS
				Peak	5925.000	-38.28	≤10.00	---	---	PASS
11AC20SI SO	Ant	Low	5745	Peak	5650.000	-37.638	≤-27.00	---	---	PASS
				Peak	5700.000	-38.69	≤10.00	---	---	PASS
				Peak	5720.000	-33.7	≤15.60	---	---	PASS
				Peak	5725.000	-28.37	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-29.862	≤15.60	---	---	PASS
				Peak	5855.000	-32.56	≤27.00	---	---	PASS
				Peak	5875.000	-36.97	≤15.60	---	---	PASS
				Peak	5925.000	-37.41	≤10.00	---	---	PASS
11AC40SI SO	Ant	Low	5755	Peak	5650.000	-38.104	≤-27.00	---	---	PASS
				Peak	5700.000	-37.94	≤10.00	---	---	PASS



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		High	5795	Peak	5720.000	-30.91	≤ 15.60	---	---	PASS
				Peak	5725.000	-27.23	≤ 27.00	---	---	PASS
				Peak	5850.000	-35.027	≤ 15.60	---	---	PASS
				Peak	5855.000	-36.5	≤ 27.00	---	---	PASS
				Peak	5875.000	-36.85	≤ 15.60	---	---	PASS
				Peak	5925.000	-38.08	≤ 10.00	---	---	PASS
11AC80SI SO	Ant	Low	5775	Peak	5650.000	-37.968	≤ 27.00	---	---	PASS
				Peak	5700.000	-31.55	≤ 10.00	---	---	PASS
				Peak	5720.000	-28.2	≤ 15.60	---	---	PASS
				Peak	5725.000	-26.97	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-29.695	≤ 15.60	---	---	PASS
				Peak	5855.000	-31.08	≤ 27.00	---	---	PASS
				Peak	5875.000	-35.48	≤ 15.60	---	---	PASS
				Peak	5925.000	-38.98	≤ 10.00	---	---	PASS

Note:

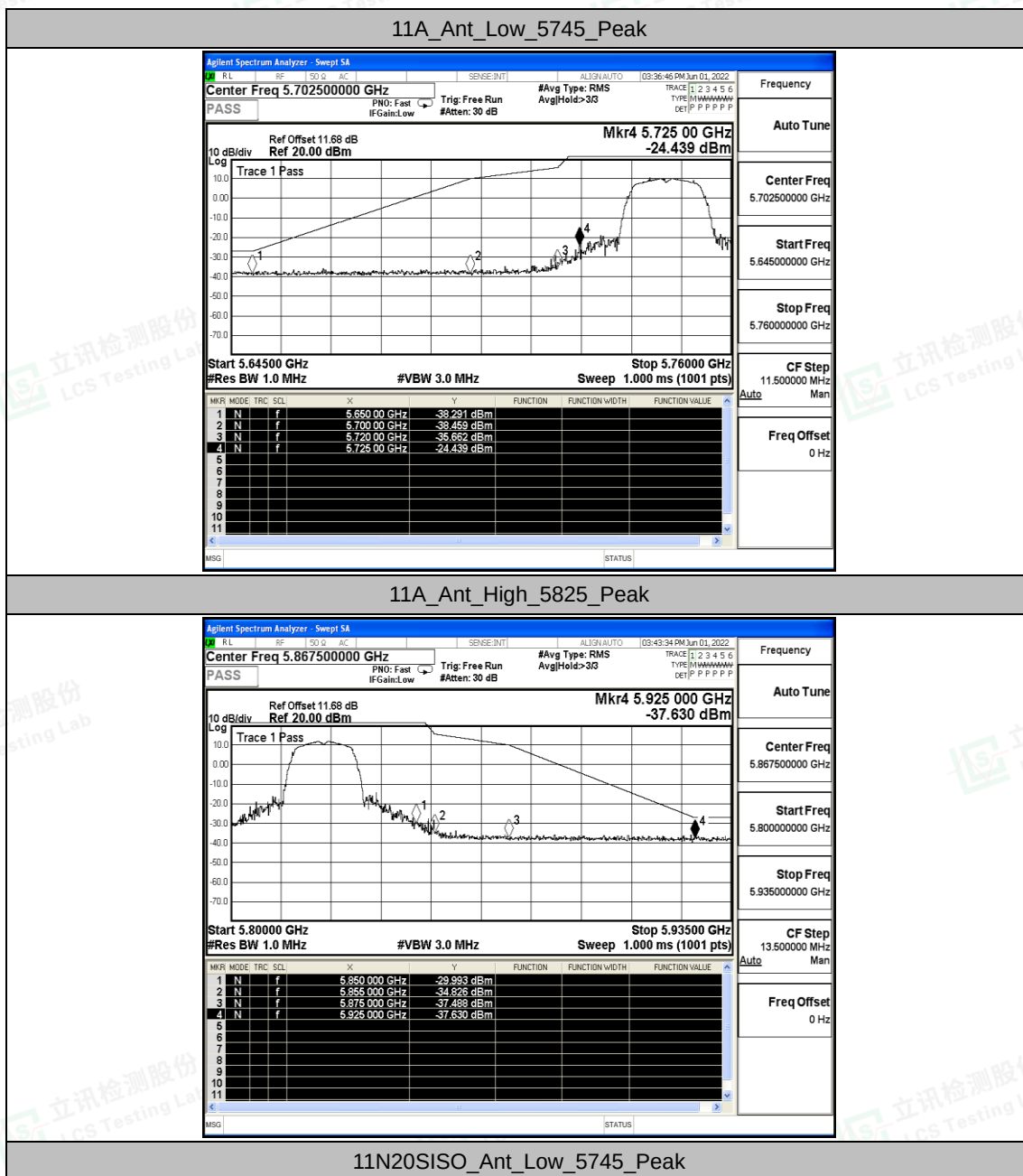
1. The Antenna Gain is compensated in the graph.



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Test Graphs

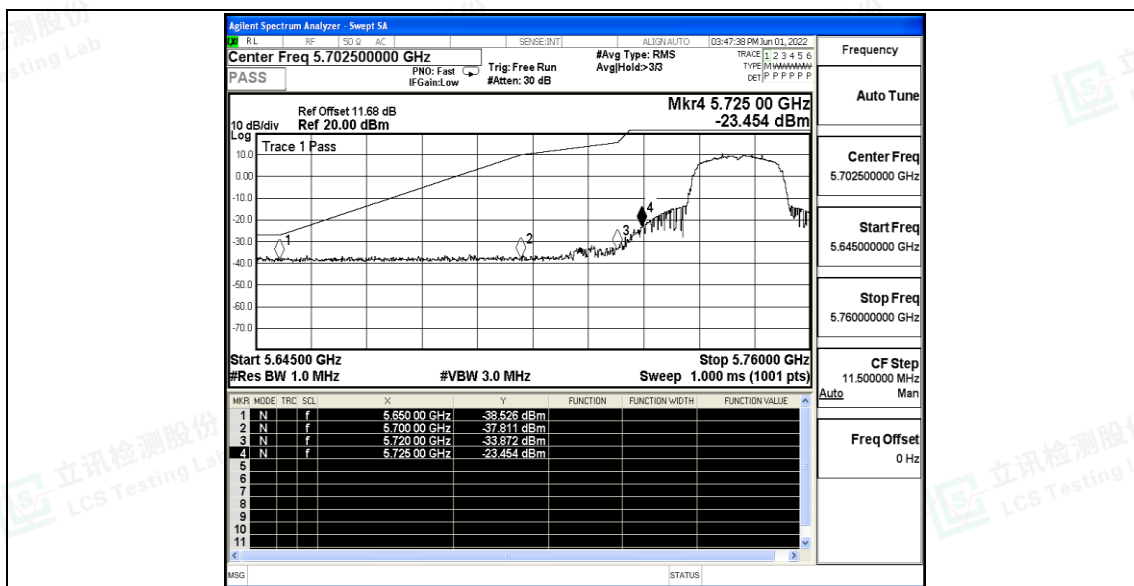


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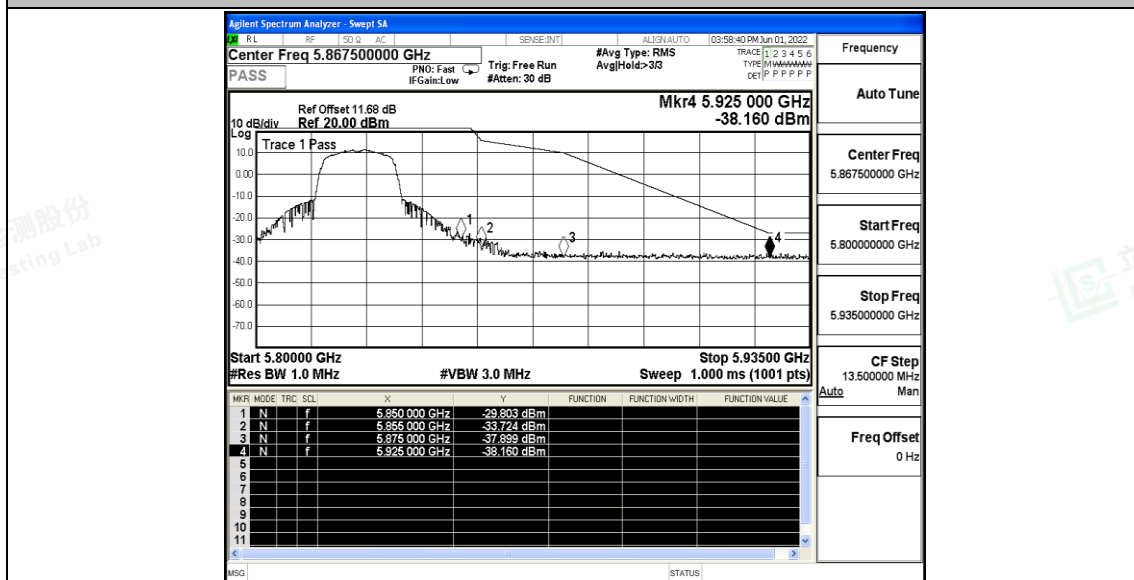
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11N20SISO_Ant_High_5825_Peak



11N40SISO_Ant_Low_5755_Peak

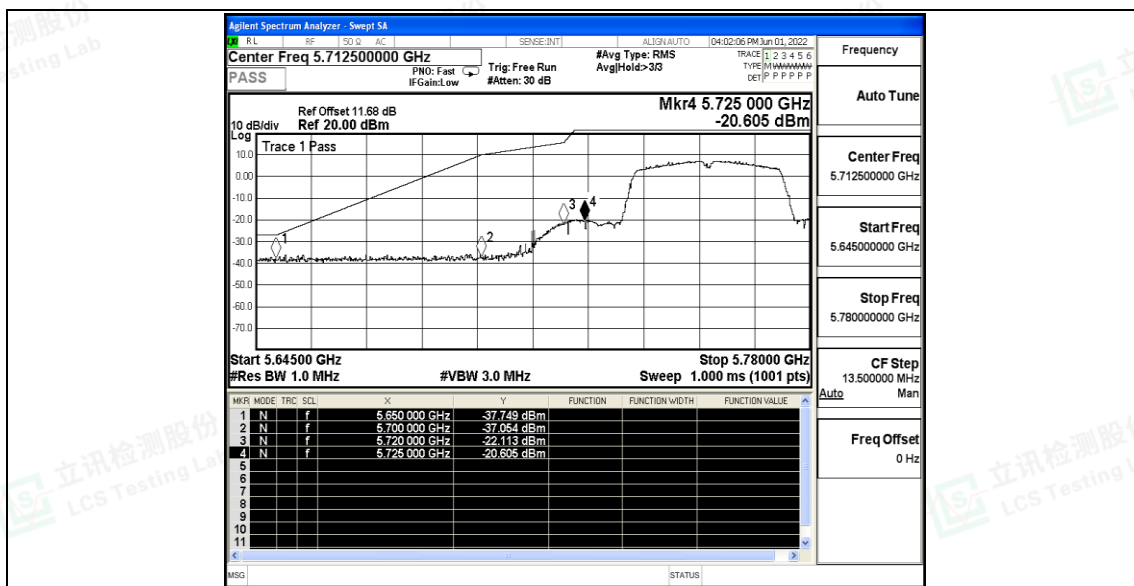


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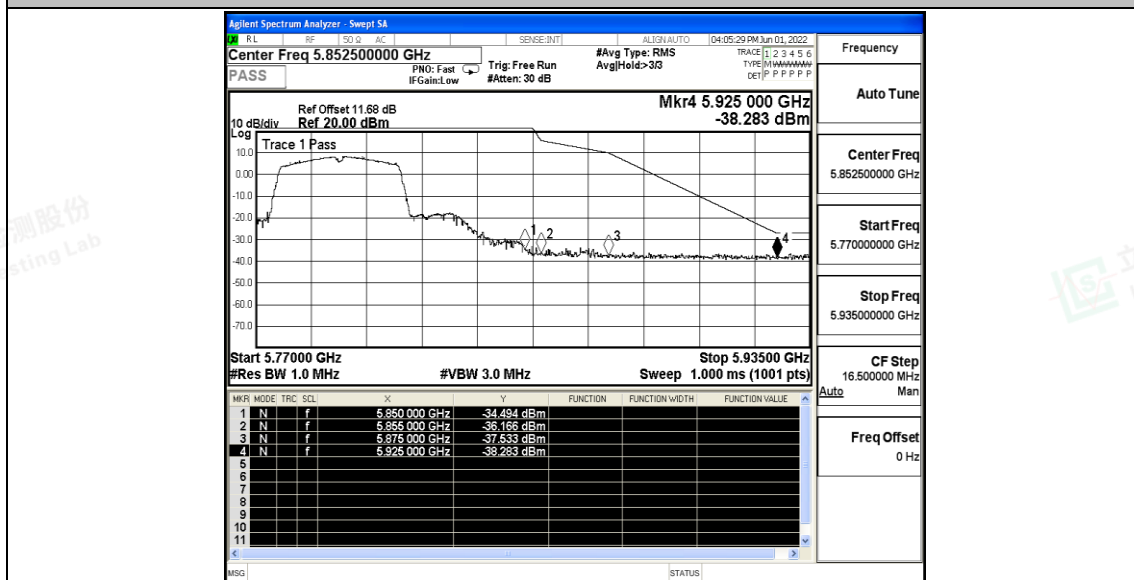
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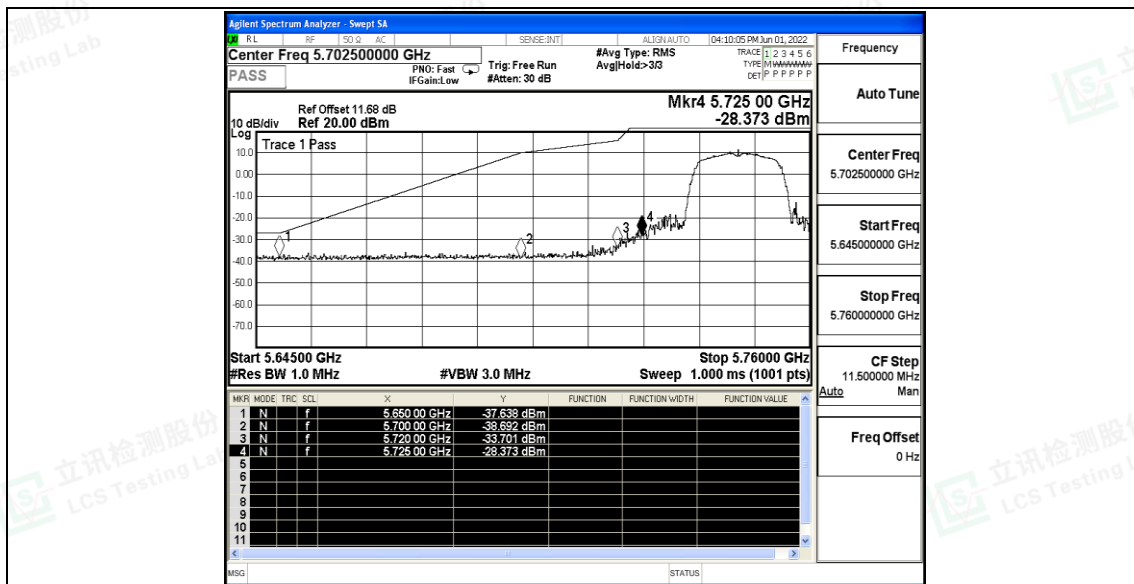


11N40SISO_Ant_High_5795_Peak

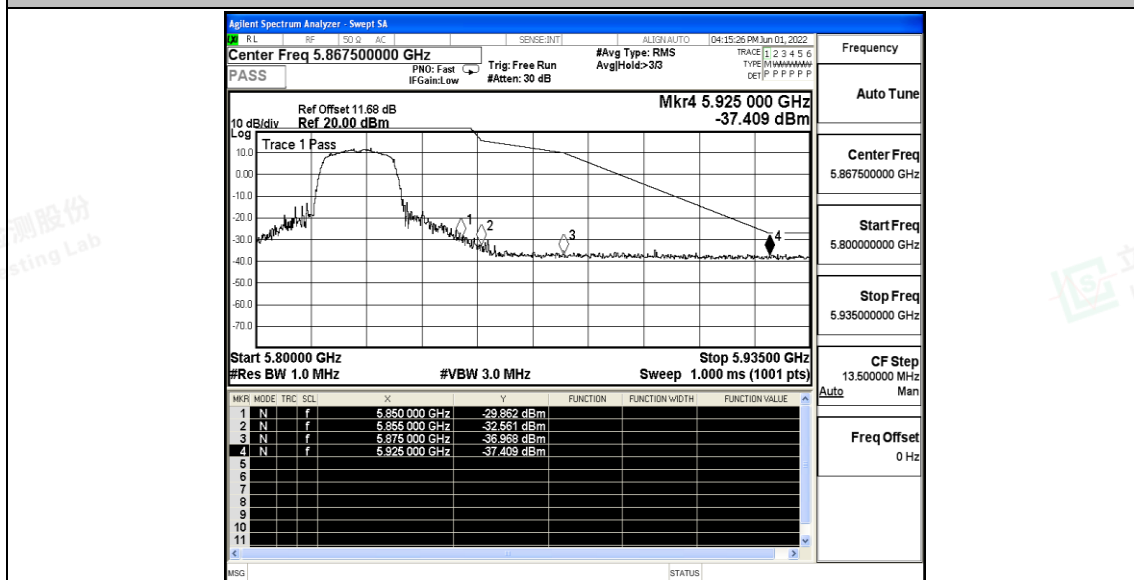


11AC20SISO_Ant_Low_5745_Peak





11AC20SISO_Ant_High_5825_Peak



11AC40SISO_Ant_Low_5755_Peak

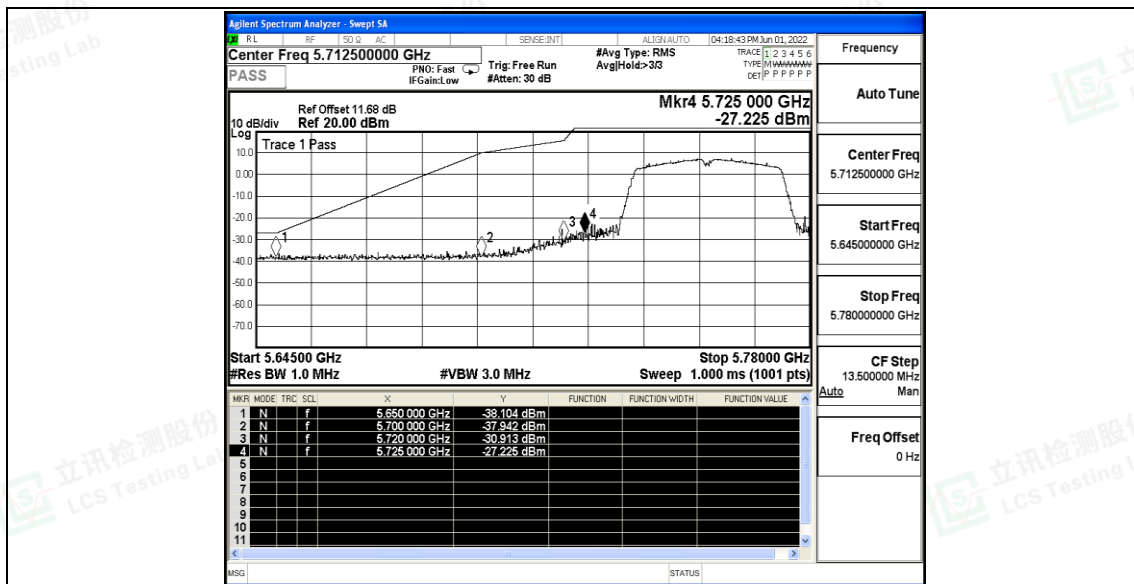


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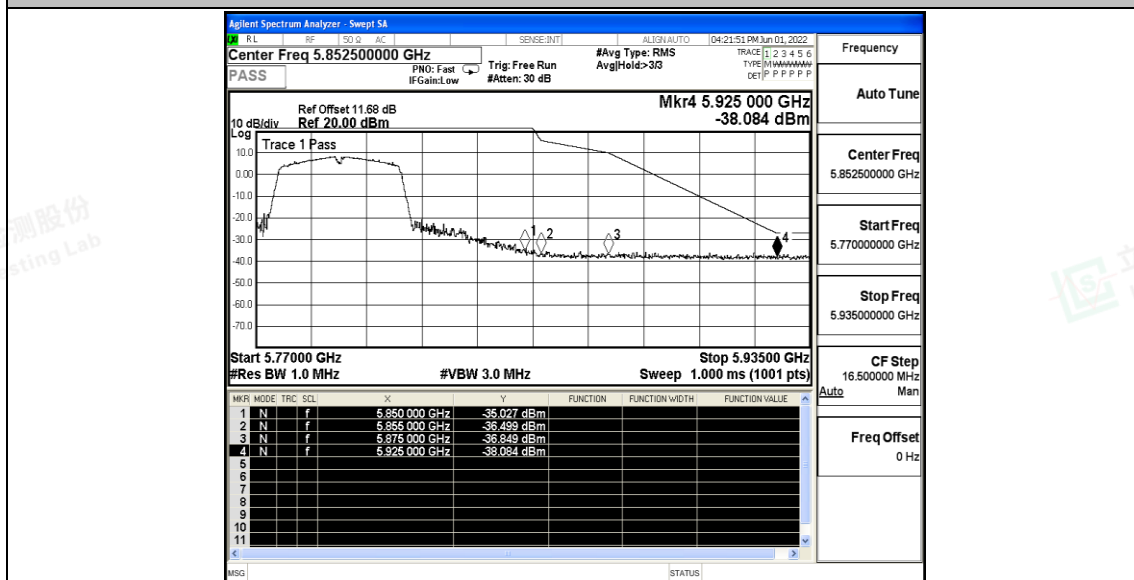
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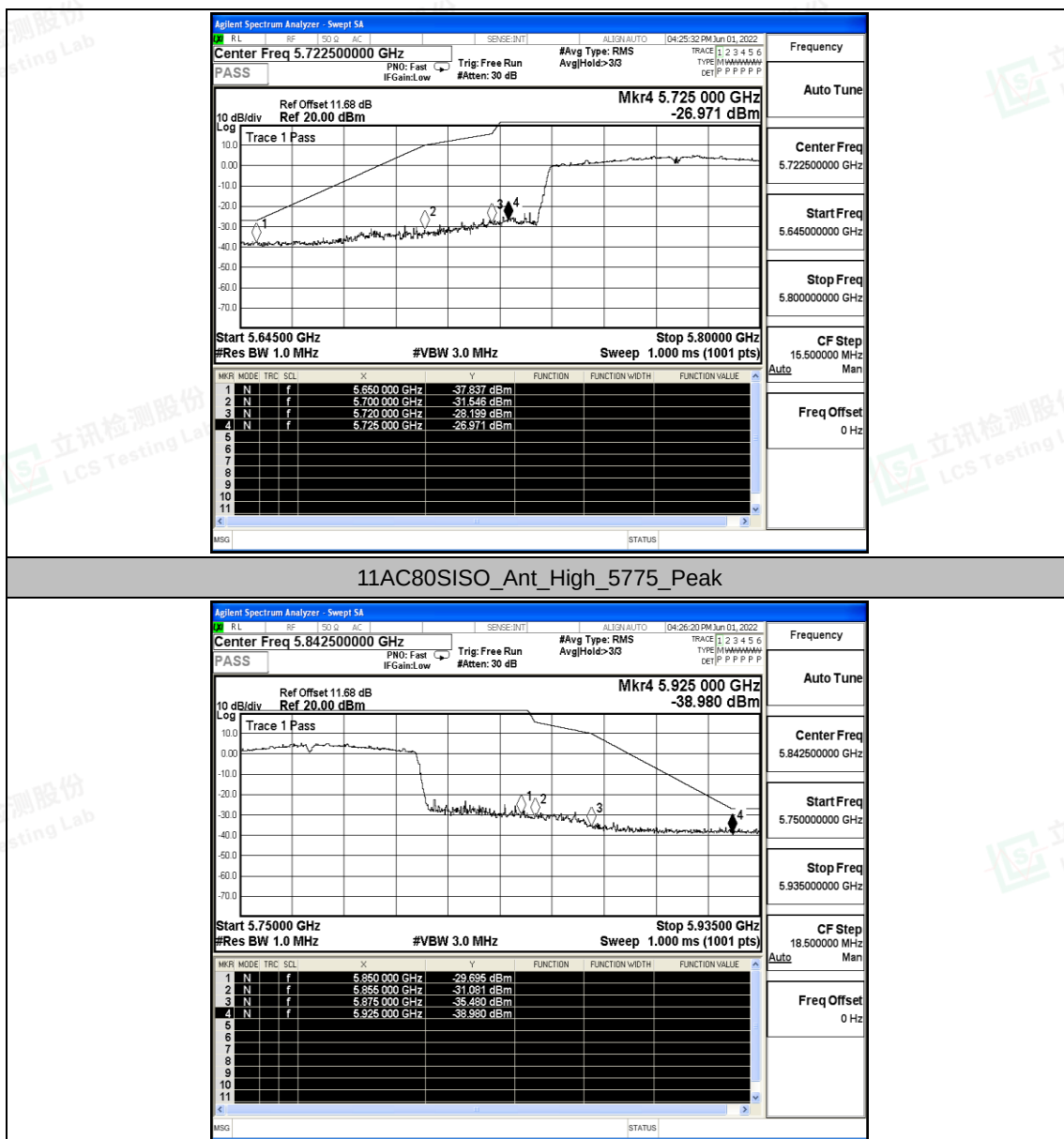


11AC40SISO_Ant_High_5795_Peak



11AC80SISO_Ant_Low_5775_Peak







E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5745	NV	NT	-19000	-3.307224	20	PASS
			LV	NT	-20000	-3.481288	20	PASS
			HV	NT	-20000	-3.481288	20	PASS
		5785	NV	NT	-24000	-4.14866	20	PASS
			LV	NT	-25000	-4.321521	20	PASS
			HV	NT	-25000	-4.321521	20	PASS
		5825	NV	NT	-27000	-4.635193	20	PASS
			LV	NT	-27000	-4.635193	20	PASS
			HV	NT	-27000	-4.635193	20	PASS
11AC40S ISO	Ant	5755	NV	NT	-26000	-4.517811	20	PASS
			LV	NT	-26000	-4.517811	20	PASS
			HV	NT	-26000	-4.517811	20	PASS
		5795	NV	NT	-28000	-4.831752	20	PASS
			LV	NT	-28000	-4.831752	20	PASS
			HV	NT	-28000	-4.831752	20	PASS
11AC80S ISO	Ant	5775	NV	NT	-27000	-4.675325	20	PASS
			LV	NT	-27000	-4.675325	20	PASS
			HV	NT	-27000	-4.675325	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5745	NV	-30	-21000	-3.655352	20	PASS
			NV	-20	-21000	-3.655352	20	PASS
			NV	-10	-22000	-3.829417	20	PASS
			NV	0	-23000	-4.003481	20	PASS
			NV	10	-23000	-4.003481	20	PASS
			NV	20	-23000	-4.003481	20	PASS
			NV	30	-24000	-4.177546	20	PASS
			NV	40	-24000	-4.177546	20	PASS
			NV	50	-24000	-4.177546	20	PASS
		5785	NV	-30	-25000	-4.321521	20	PASS
			NV	-20	-25000	-4.321521	20	PASS





			NV	-10	-25000	-4.321521	20	PASS
			NV	0	-26000	-4.494382	20	PASS
			NV	10	-26000	-4.494382	20	PASS
			NV	20	-26000	-4.494382	20	PASS
			NV	30	-26000	-4.494382	20	PASS
			NV	40	-26000	-4.494382	20	PASS
			NV	50	-26000	-4.494382	20	PASS
		5825	NV	-30	-27000	-4.635193	20	PASS
			NV	-20	-27000	-4.635193	20	PASS
			NV	-10	-27000	-4.635193	20	PASS
			NV	0	-27000	-4.635193	20	PASS
			NV	10	-27000	-4.635193	20	PASS
			NV	20	-28000	-4.806867	20	PASS
			NV	30	-28000	-4.806867	20	PASS
			NV	40	-28000	-4.806867	20	PASS
			NV	50	-28000	-4.806867	20	PASS
11AC40S ISO	Ant	5755	NV	-30	-26000	-4.517811	20	PASS
			NV	-20	-27000	-4.691573	20	PASS
			NV	-10	-27000	-4.691573	20	PASS
			NV	0	-27000	-4.691573	20	PASS
			NV	10	-27000	-4.691573	20	PASS
			NV	20	-27000	-4.691573	20	PASS
			NV	30	-27000	-4.691573	20	PASS
			NV	40	-27000	-4.691573	20	PASS
		5795	NV	50	-28000	-4.865334	20	PASS
			NV	-30	-28000	-4.831752	20	PASS
			NV	-20	-28000	-4.831752	20	PASS
			NV	-10	-28000	-4.831752	20	PASS
			NV	0	-28000	-4.831752	20	PASS
			NV	10	-28000	-4.831752	20	PASS
			NV	20	-28000	-4.831752	20	PASS
			NV	30	-28000	-4.831752	20	PASS
			NV	40	-28000	-4.831752	20	PASS
			NV	50	-28000	-4.831752	20	PASS
11AC80S ISO	Ant	5775	NV	-30	-27000	-4.675325	20	PASS
			NV	-20	-27000	-4.675325	20	PASS
			NV	-10	-28000	-4.848485	20	PASS
			NV	0	-28000	-4.848485	20	PASS
			NV	10	-28000	-4.848485	20	PASS
			NV	20	-28000	-4.848485	20	PASS



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			NV	30	-28000	-4.848485	20	PASS
			NV	40	-28000	-4.848485	20	PASS
			NV	50	-28000	-4.848485	20	PASS



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E.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant	5745	1.38	1.43	96.50	---	---
		5785	1.39	1.43	97.20	---	---
		5825	1.39	1.44	96.53	---	---
11N20SISO	Ant	5745	1.30	1.35	96.30	---	---
		5785	1.29	1.34	96.27	---	---
		5825	1.30	1.35	96.30	---	---
11N40SISO	Ant	5755	0.65	0.70	92.86	---	---
		5795	0.65	0.69	94.20	---	---
11AC20SISO	Ant	5745	1.31	1.36	96.32	---	---
		5785	1.32	1.36	97.06	---	---
		5825	1.31	1.36	96.32	---	---
11AC40SISO	Ant	5755	0.66	0.70	94.29	---	---
		5795	0.66	0.70	94.29	---	---
11AC80SISO	Ant	5775	0.32	0.36	88.89	---	---





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