



Appendix C

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Multi-function projector

Test Model: NeoPix 122

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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C.1 Emission Bandwidth

Test Result

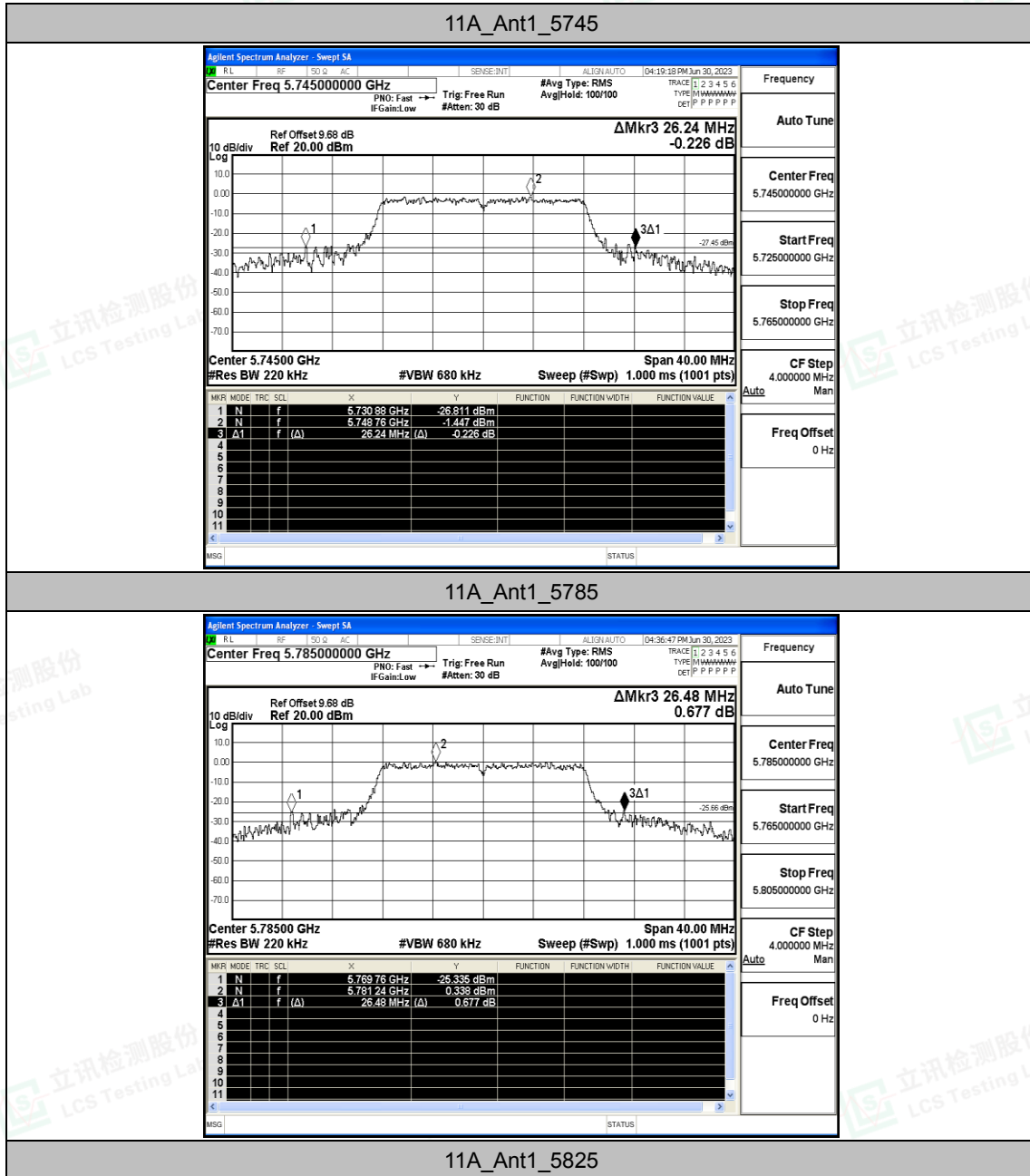
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	26.240	5730.880	5757.120	---	PASS
		5785	26.480	5769.760	5796.240	---	PASS
		5825	22.080	5812.960	5835.040	---	PASS
11N20SISO	Ant1	5745	27.600	5731.680	5759.280	---	PASS
		5785	25.960	5772.640	5798.600	---	PASS
		5825	29.240	5810.040	5839.280	---	PASS
11N40SISO	Ant1	5755	40.000	5734.920	5774.920	---	PASS
		5795	41.680	5775.080	5816.760	---	PASS
11AC20SISO	Ant1	5745	29.080	5731.360	5760.440	---	PASS
		5785	27.000	5772.280	5799.280	---	PASS
		5825	26.560	5810.560	5837.120	---	PASS

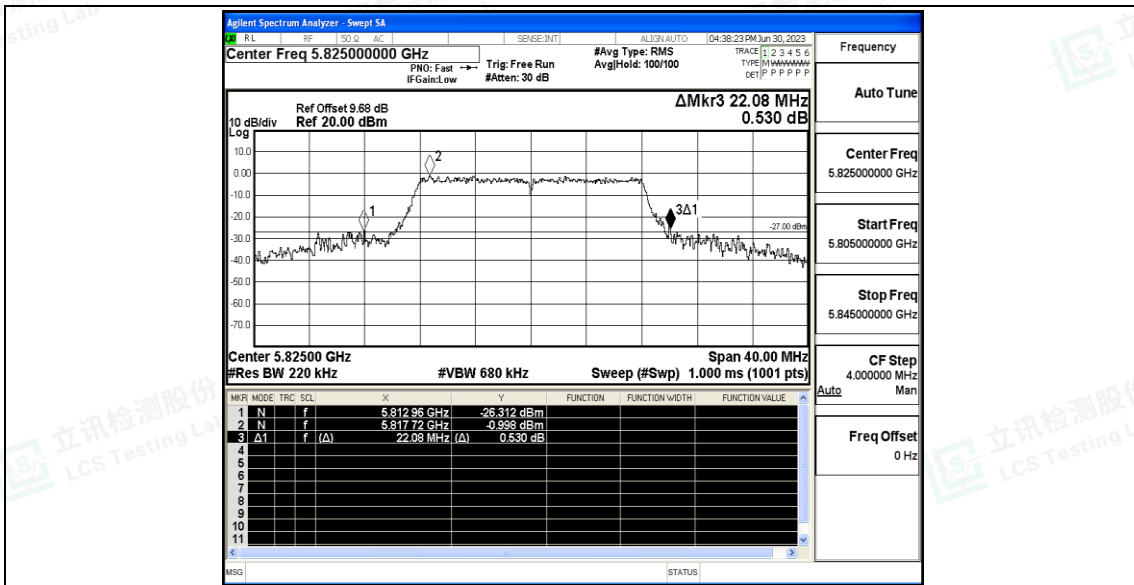


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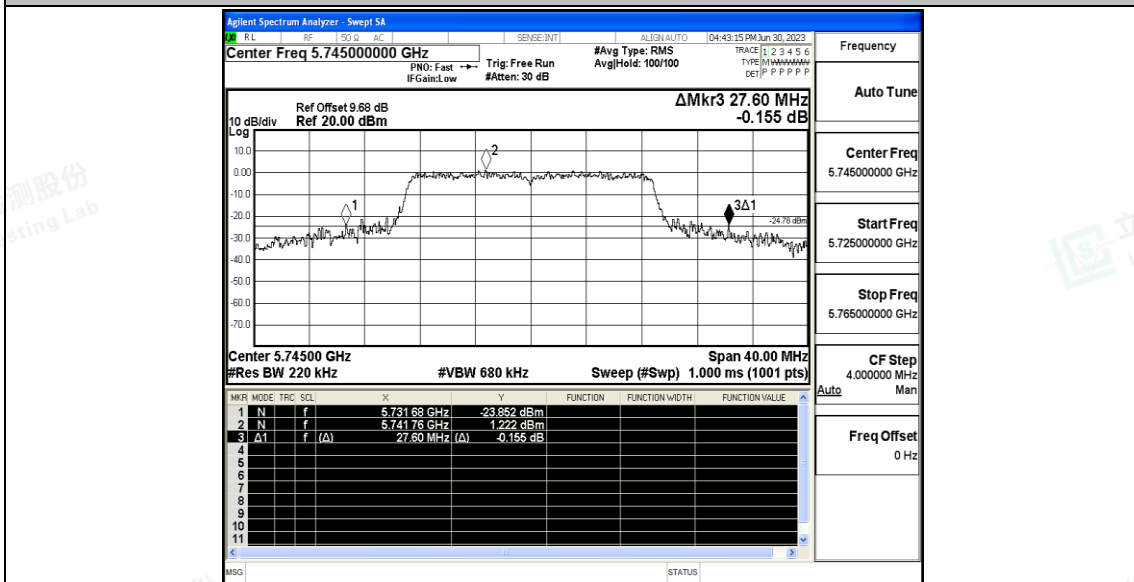


Test Graphs



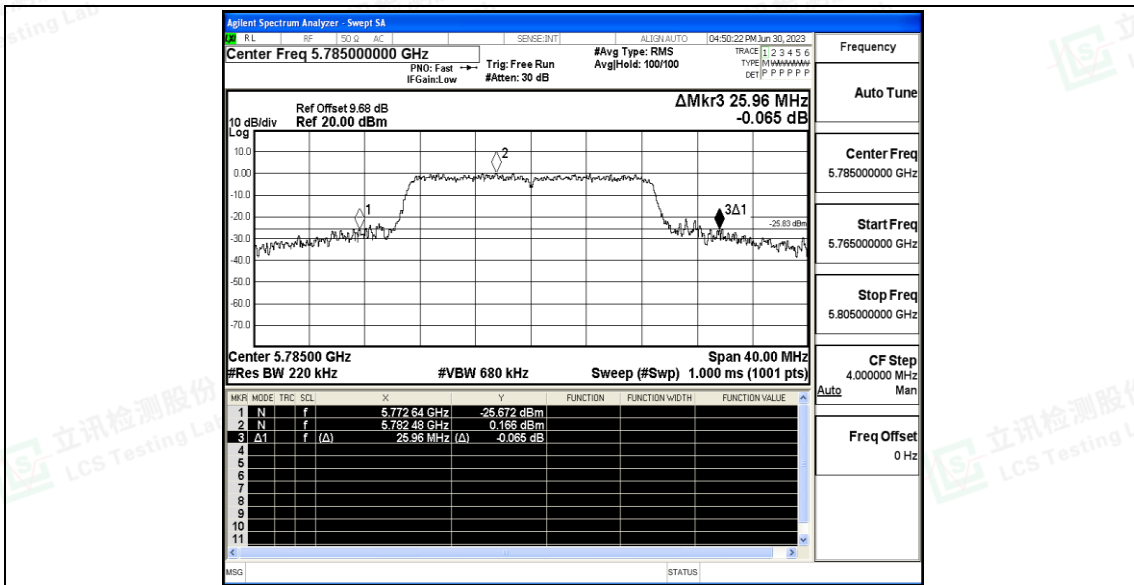


11N20SISO_Ant1_5745

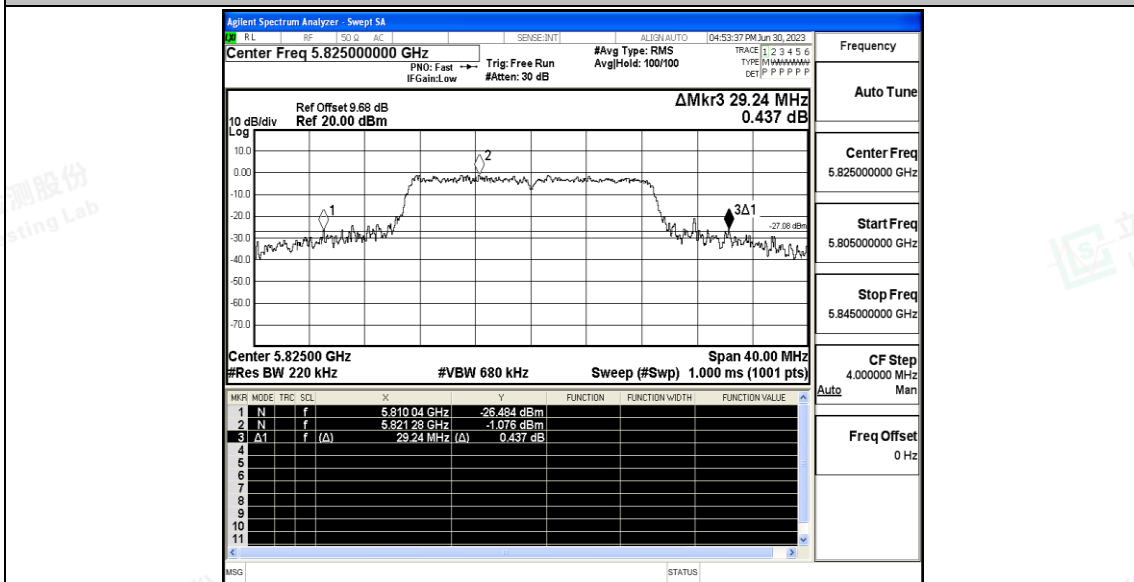


11N20SISO_Ant1_5785



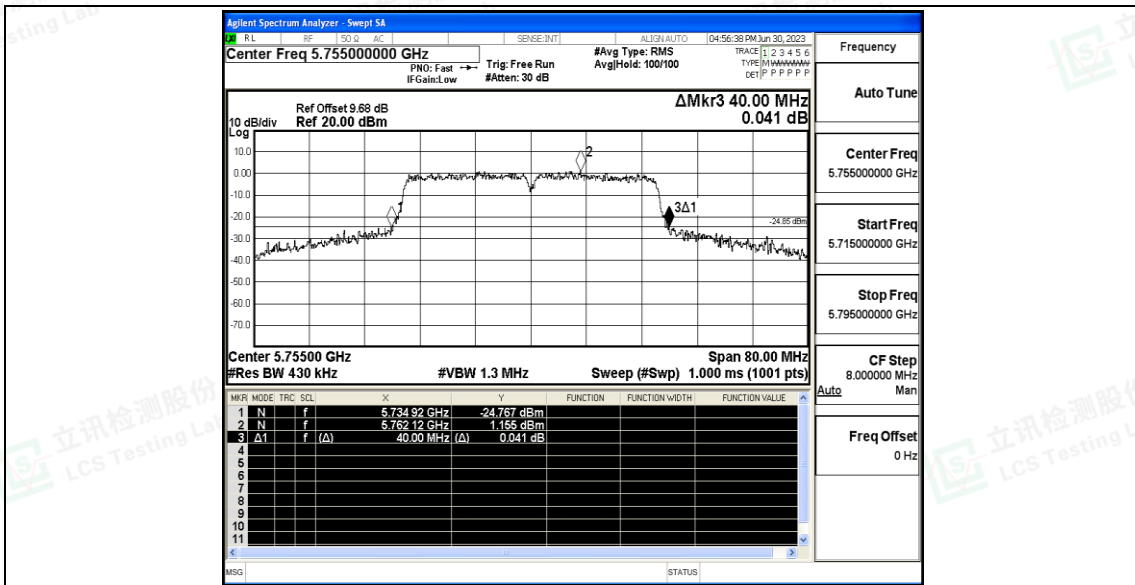


11N20SISO_Ant1_5825

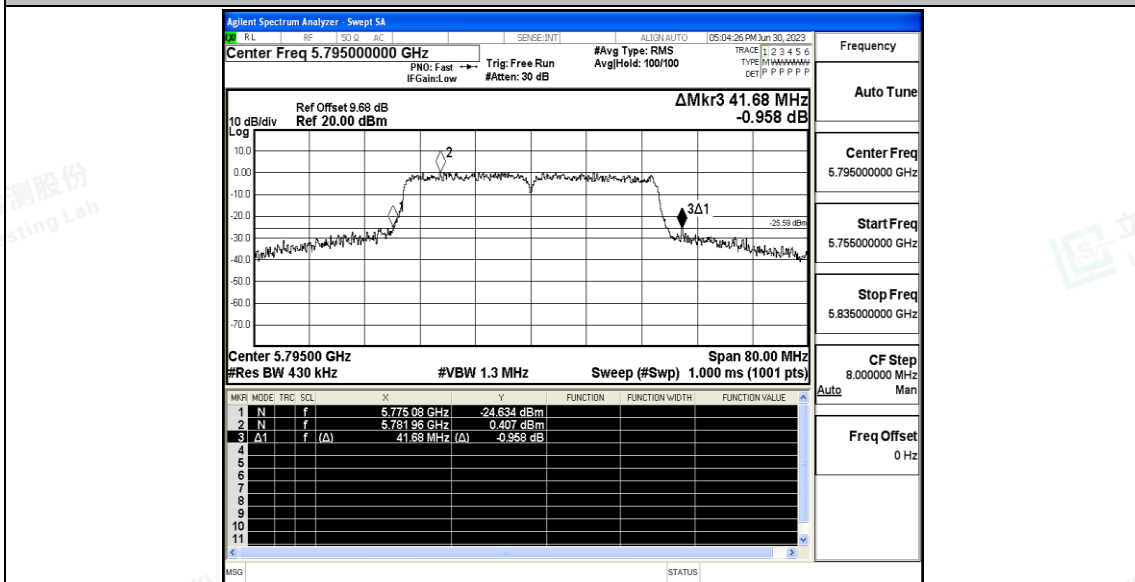


11N40SISO_Ant1_5755



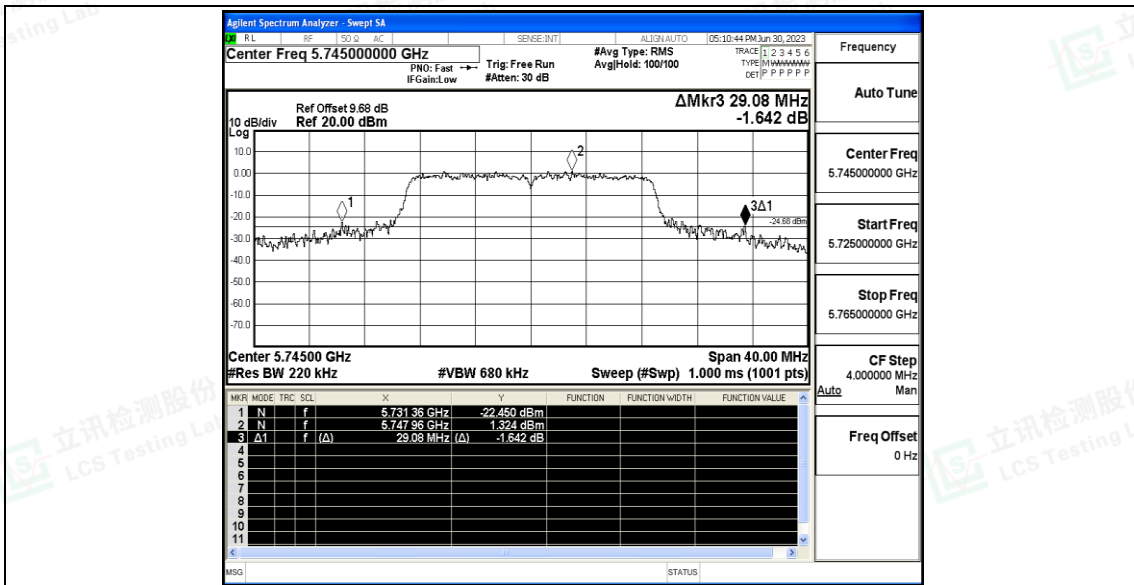


11N40SISO_Ant1_5795

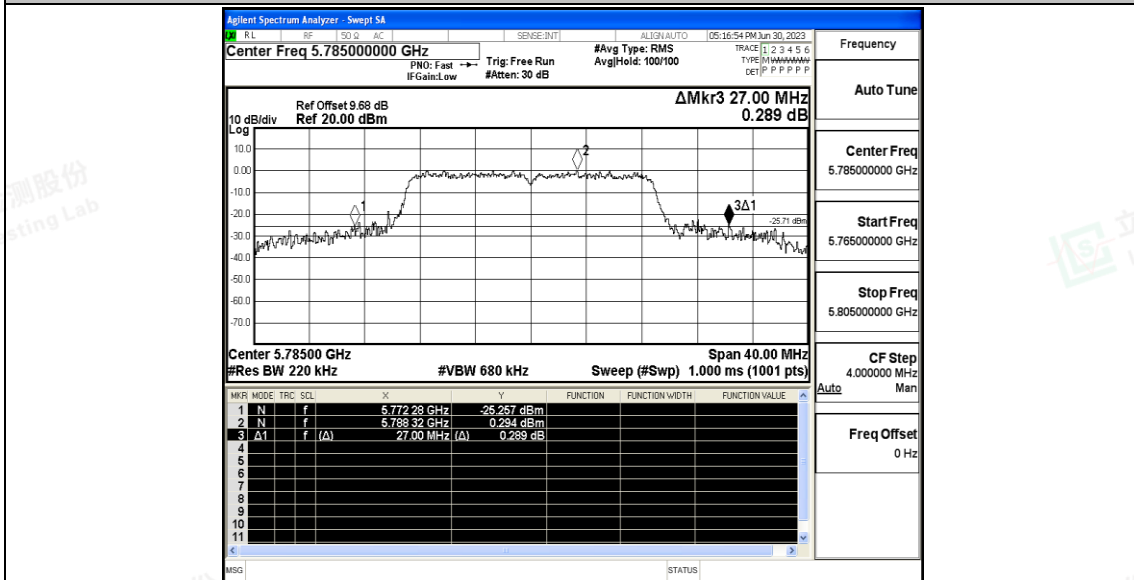


11AC20SISO_Ant1_5745



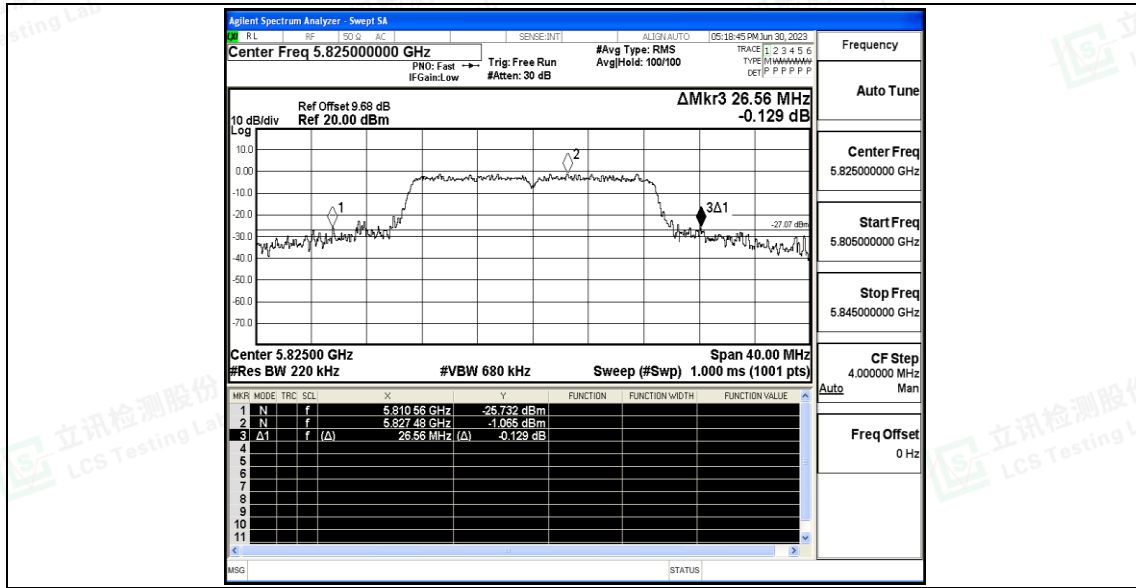


11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825





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C.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	10.74	≤30.00	PASS
		5785	10.52	≤30.00	PASS
		5825	9.33	≤30.00	PASS
11N20SISO	Ant1	5745	11.49	≤30.00	PASS
		5785	10.83	≤30.00	PASS
		5825	9.66	≤30.00	PASS
11N40SISO	Ant1	5755	11.07	≤30.00	PASS
		5795	10.53	≤30.00	PASS
11AC20SISO	Ant1	5745	11.48	≤30.00	PASS
		5785	10.79	≤30.00	PASS
		5825	9.58	≤30.00	PASS

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



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.57	≤30.00	PASS
		5785	-3.78	≤30.00	PASS
		5825	-5.03	≤30.00	PASS
11N20SISO	Ant1	5745	-3.03	≤30.00	PASS
		5785	-3.43	≤30.00	PASS
		5825	-4.75	≤30.00	PASS
11N40SISO	Ant1	5755	-5.99	≤30.00	PASS
		5795	-6.56	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.98	≤30.00	PASS
		5785	-3.81	≤30.00	PASS
		5825	-4.73	≤30.00	PASS

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

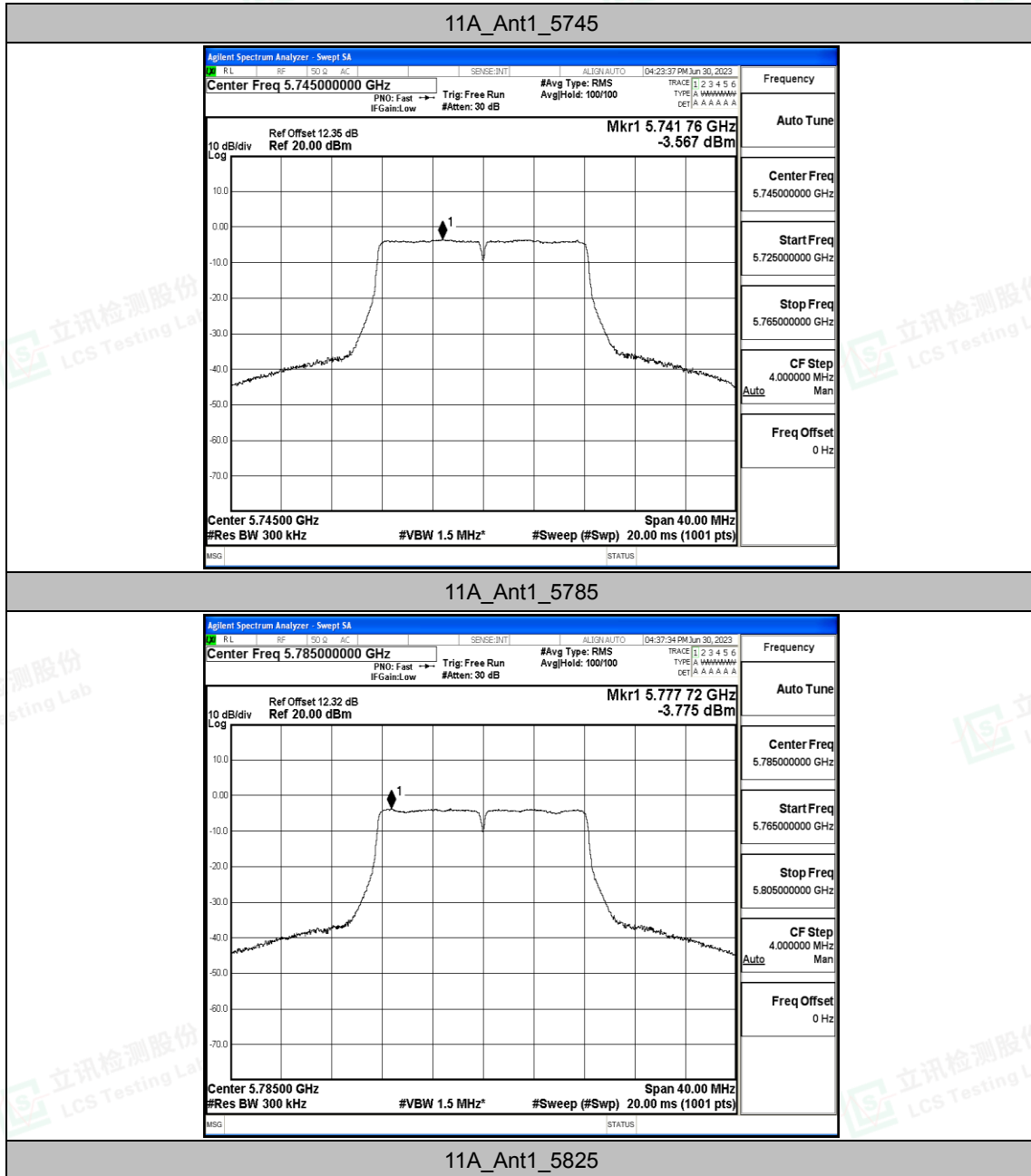
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

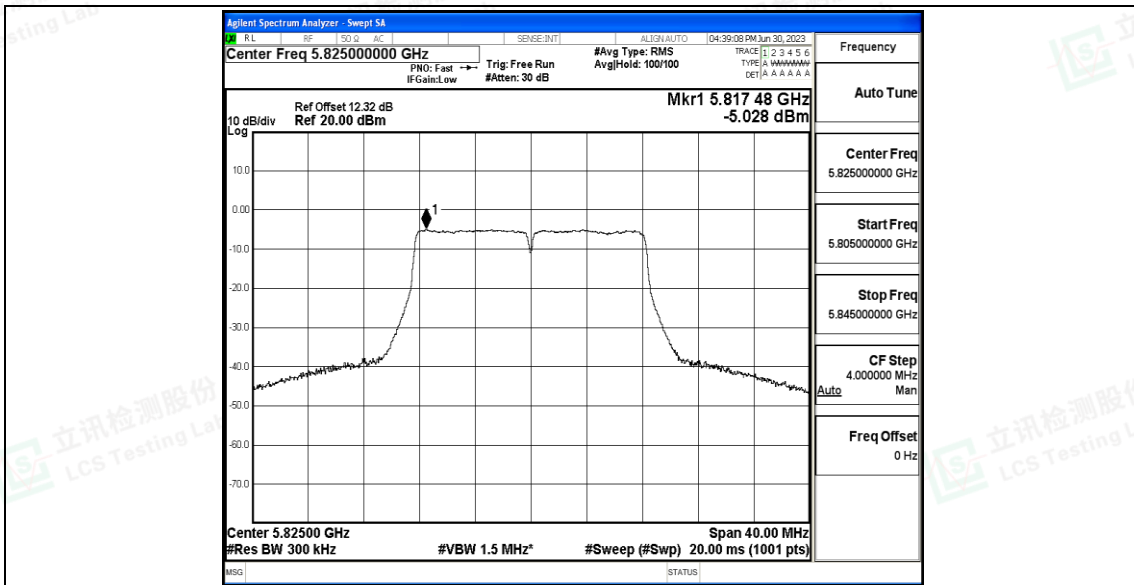


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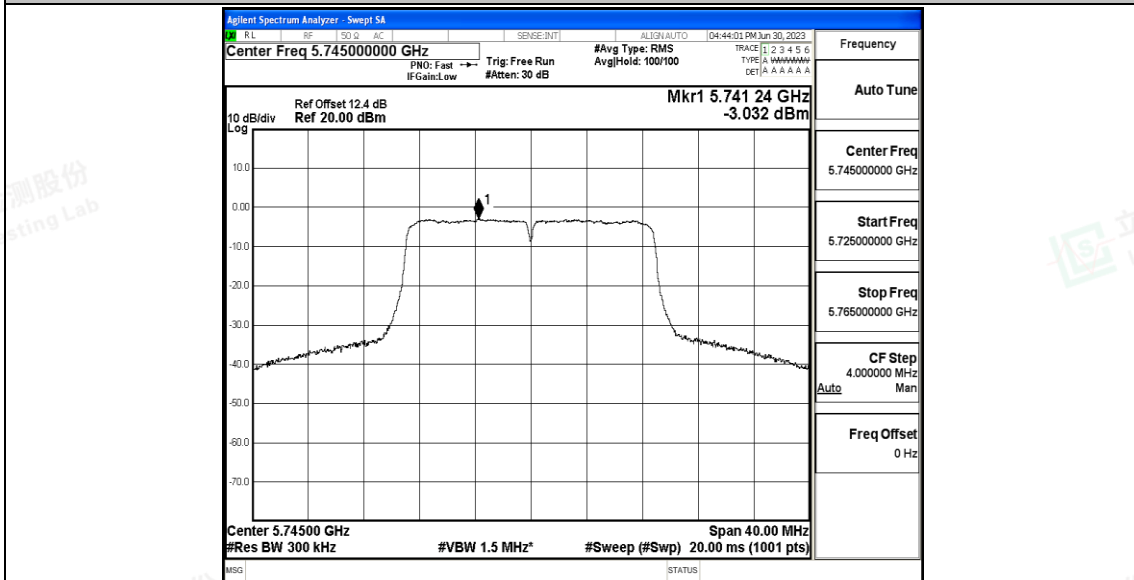


Test Graphs



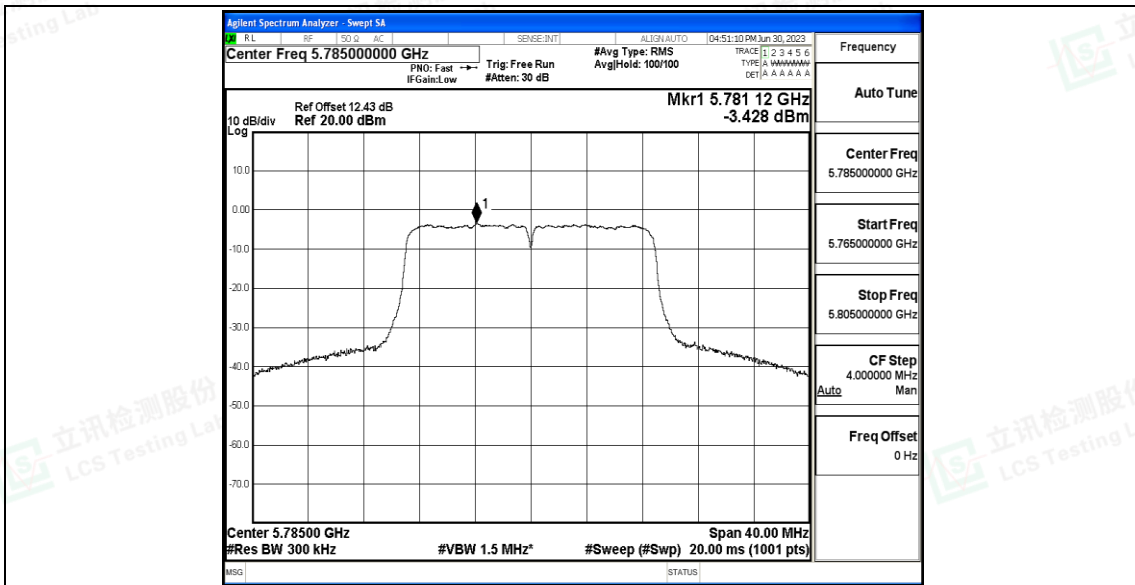


11N20SISO_Ant1_5745

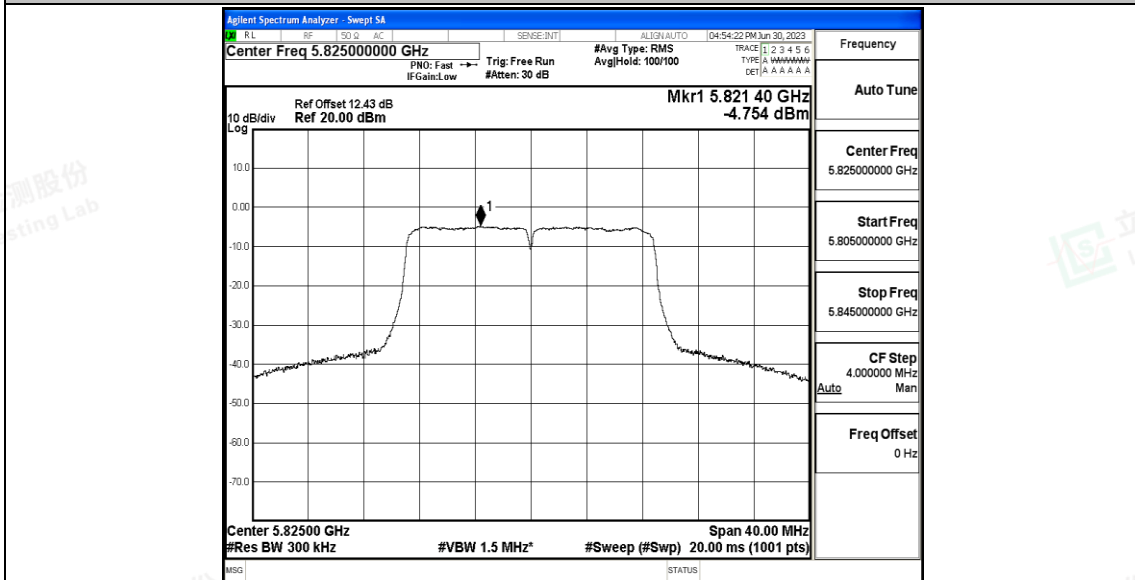


11N20SISO_Ant1_5785



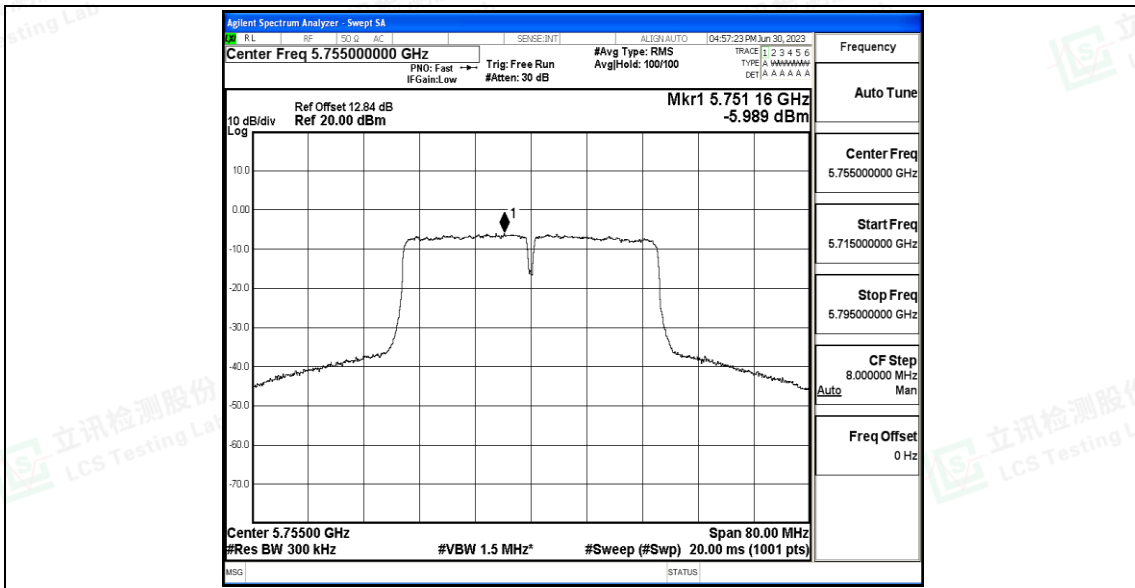


11N20SISO_Ant1_5825

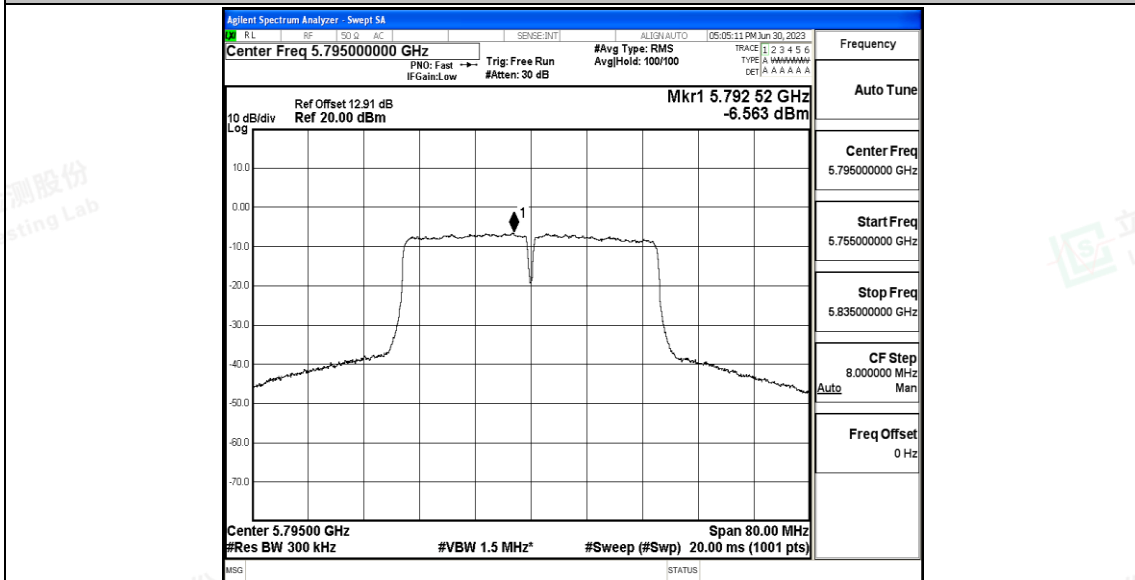


11N40SISO_Ant1_5755



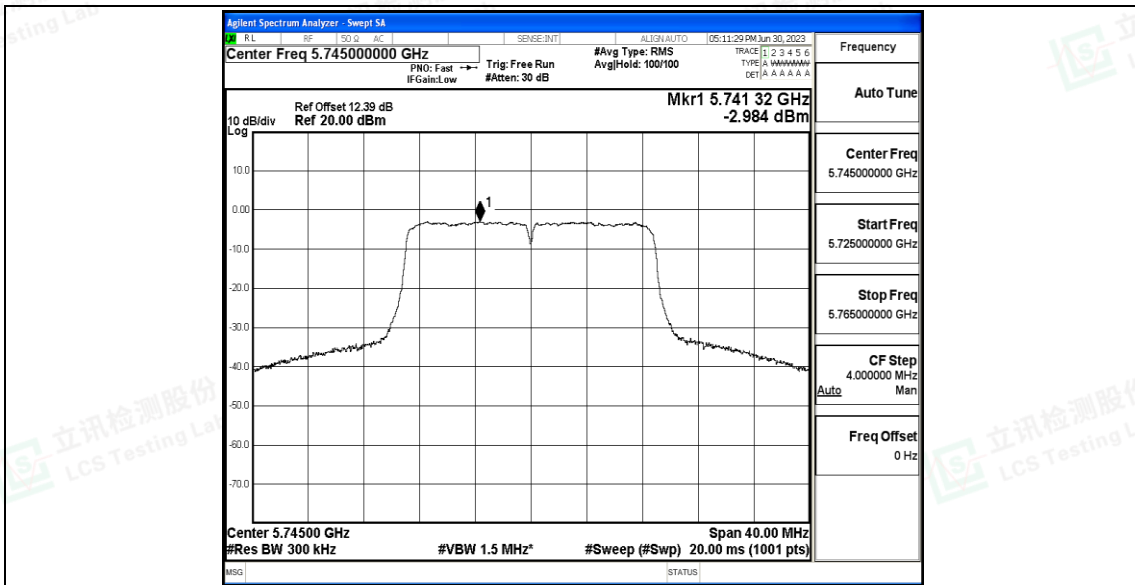


11N40SISO_Ant1_5795

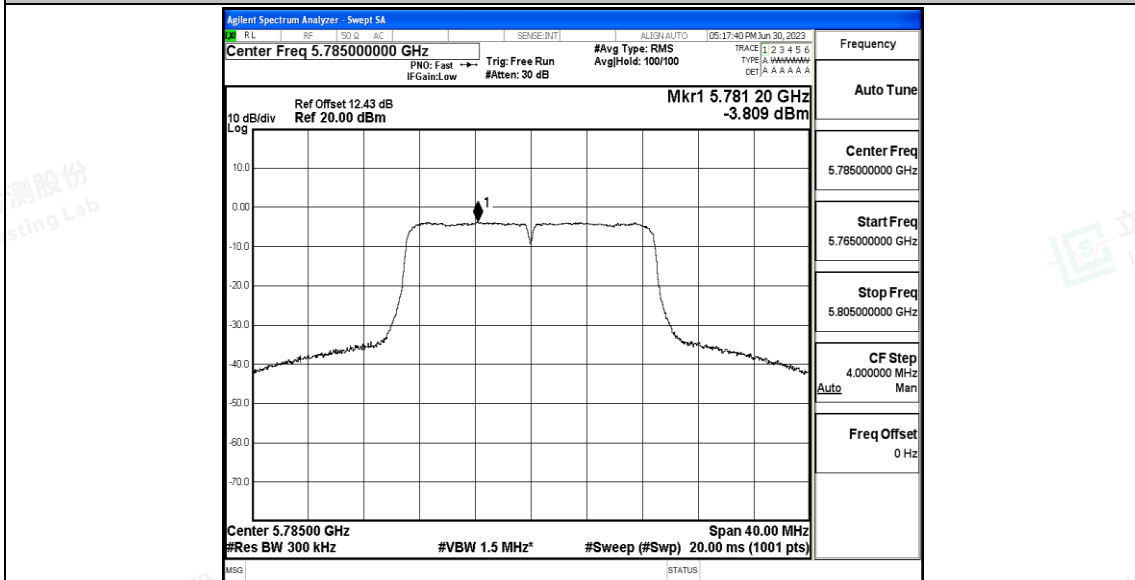


11AC20SISO_Ant1_5745



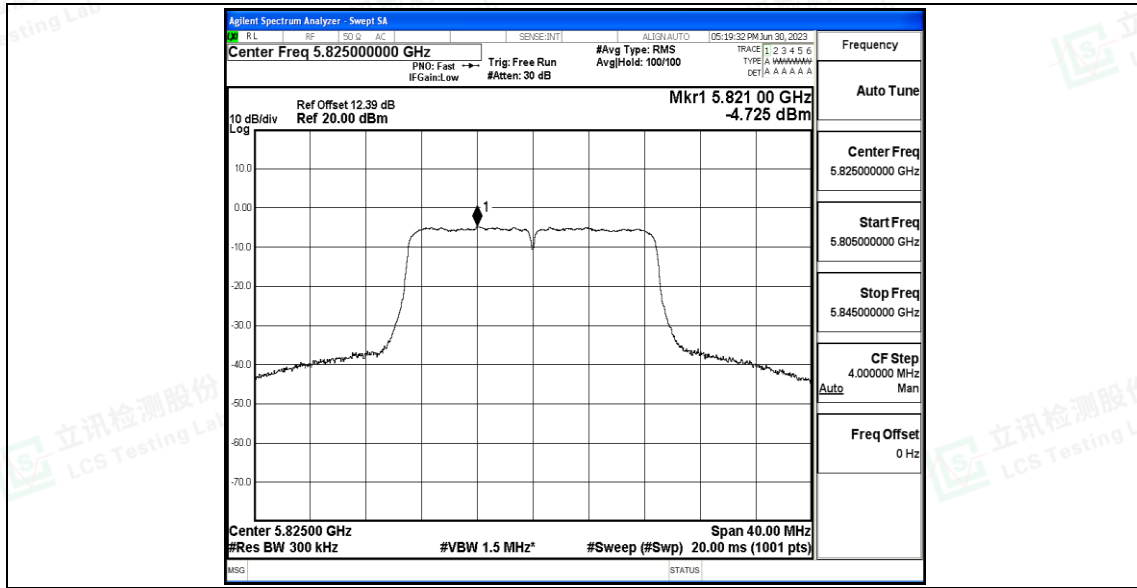


11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825





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C.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	20	Low	5745	Peak	5650.000	-49.689	≤-27.00	---	---	PASS
				Peak	5700.000	-48.16	≤10.00	---	---	PASS
				Peak	5720.000	-34.37	≤15.60	---	---	PASS
				Peak	5725.000	-28.83	≤27.00	---	---	PASS
	Ant1	High	5825	Peak	5850.000	-40.173	≤15.60	---	---	PASS
				Peak	5855.000	-41.89	≤27.00	---	---	PASS
				Peak	5875.000	-46.94	≤15.60	---	---	PASS
				Peak	5925.000	-51.24	≤10.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-50.276	≤-27.00	---	---	PASS
				Peak	5700.000	-46.95	≤10.00	---	---	PASS
				Peak	5720.000	-31.38	≤15.60	---	---	PASS
				Peak	5725.000	-23.94	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.669	≤15.60	---	---	PASS
				Peak	5855.000	-42.11	≤27.00	---	---	PASS
				Peak	5875.000	-49.03	≤15.60	---	---	PASS
				Peak	5925.000	-49.36	≤10.00	---	---	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-50.499	≤-27.00	---	---	PASS
				Peak	5700.000	-45.61	≤10.00	---	---	PASS
				Peak	5720.000	-26	≤15.60	---	---	PASS
				Peak	5725.000	-27.03	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-47.278	≤15.60	---	---	PASS
				Peak	5855.000	-48.35	≤27.00	---	---	PASS
				Peak	5875.000	-49.15	≤15.60	---	---	PASS
				Peak	5925.000	-49.14	≤10.00	---	---	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-49.907	≤-27.00	---	---	PASS
				Peak	5700.000	-49.18	≤10.00	---	---	PASS
				Peak	5720.000	-29.6	≤15.60	---	---	PASS
				Peak	5725.000	-23.72	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.595	≤15.60	---	---	PASS
				Peak	5855.000	-40.64	≤27.00	---	---	PASS
				Peak	5875.000	-48.28	≤15.60	---	---	PASS
				Peak	5925.000	-51.15	≤10.00	---	---	PASS



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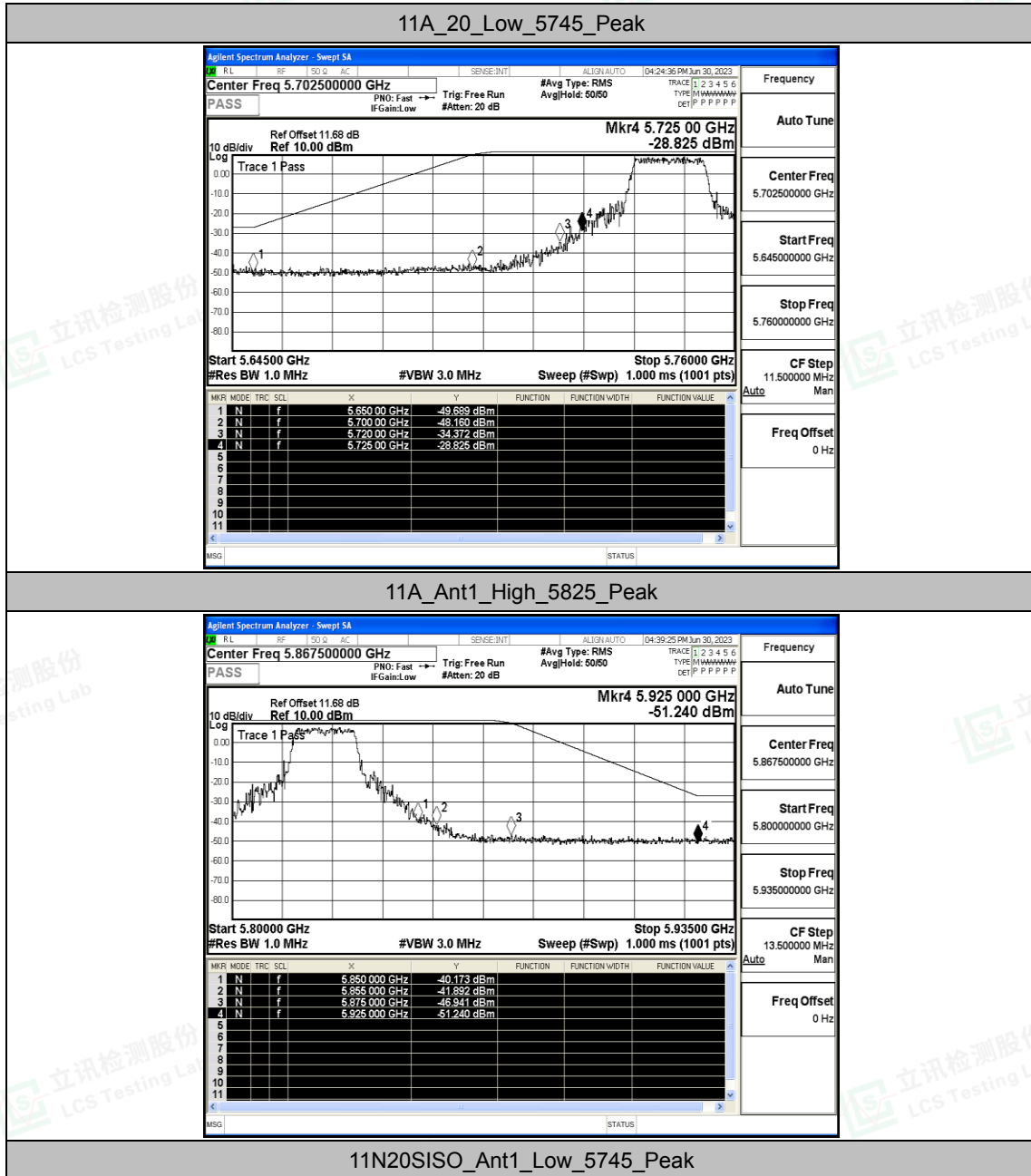
Note:

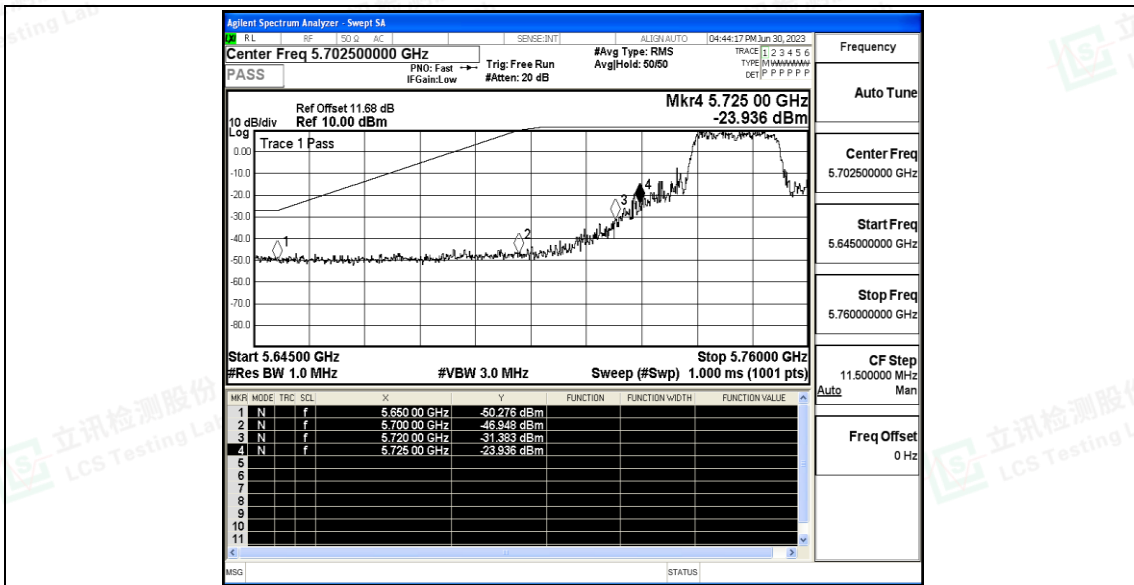
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



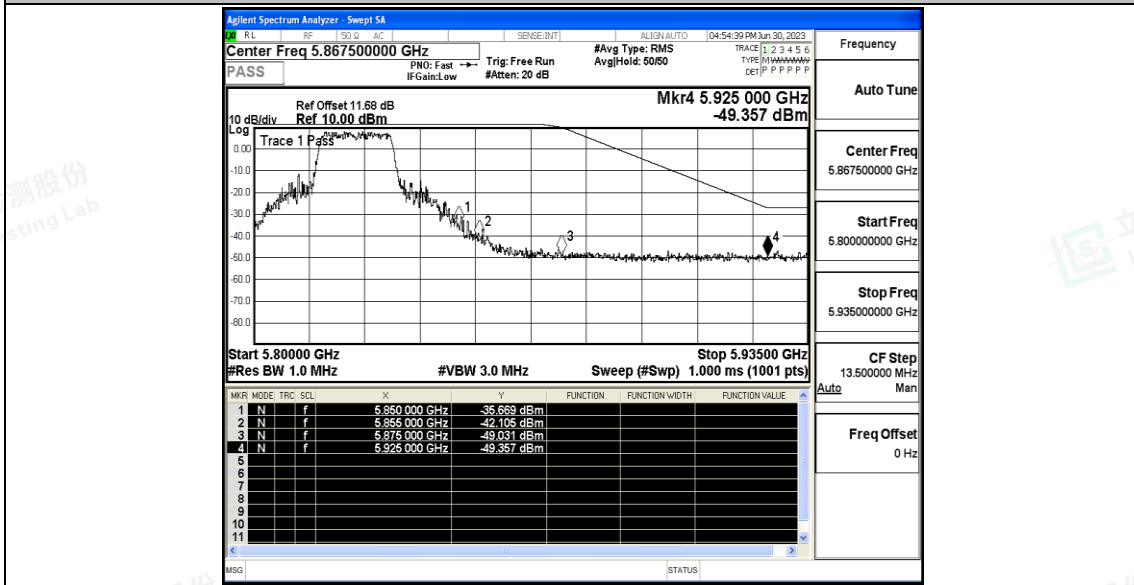


Test Graphs





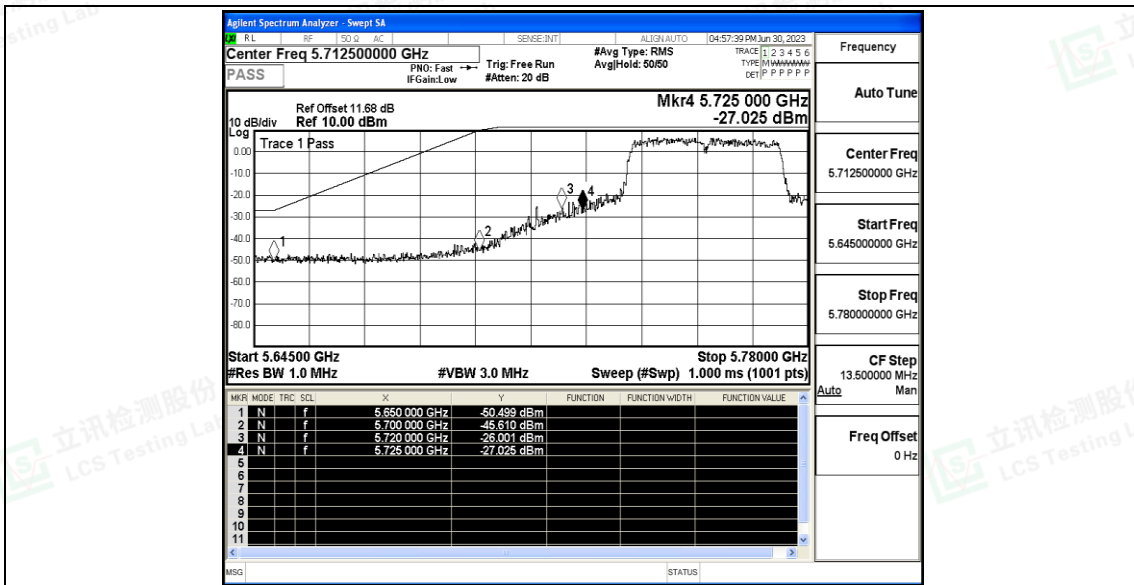
11N20SISO_Ant1_High_5825_Peak



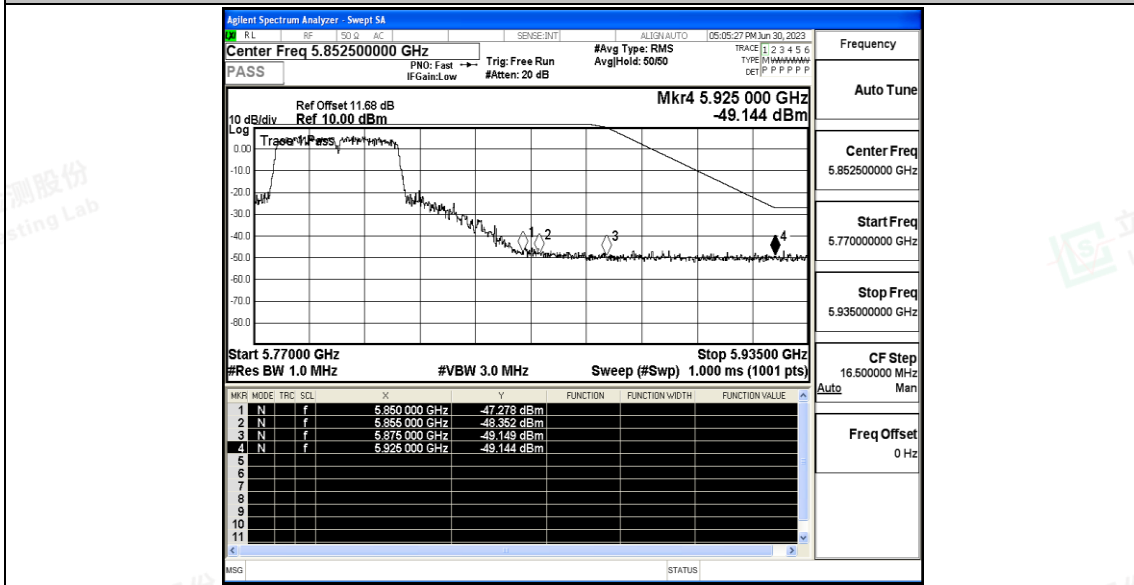
11N40SISO_Ant1_Low_5755_Peak



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11N40SISO_Ant1_High_5795_Peak



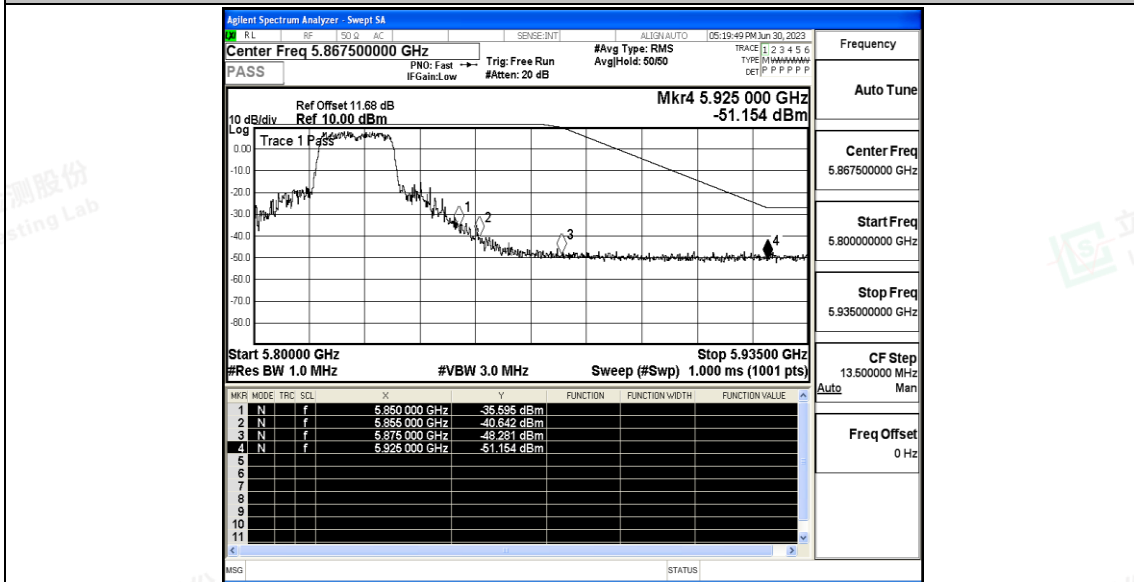
11AC20SISO_Ant1_Low_5745_Peak



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11AC20SISO_Ant1_High_5825_Peak





C.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-40000.00	-6.866953	20	PASS
			LV	NT	-40000.00	-6.866953	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N40SI SO	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-40000.00	-6.962576	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	-40000.00	-6.962576	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-40000.00	-6.914434	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS





			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	-40000.00	-6.914434	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-60000.00	-10.300429	20	PASS
			NV	10	-60000.00	-10.300429	20	PASS
			NV	20	-40000.00	-6.866953	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11N40SI SO	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.950478	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	-40000.00	-6.950478	20	PASS
		5795	NV	-30	-40000.00	-6.902502	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-80000.00	-13.805004	20	PASS





C.6 Duty Cycle

Test Result

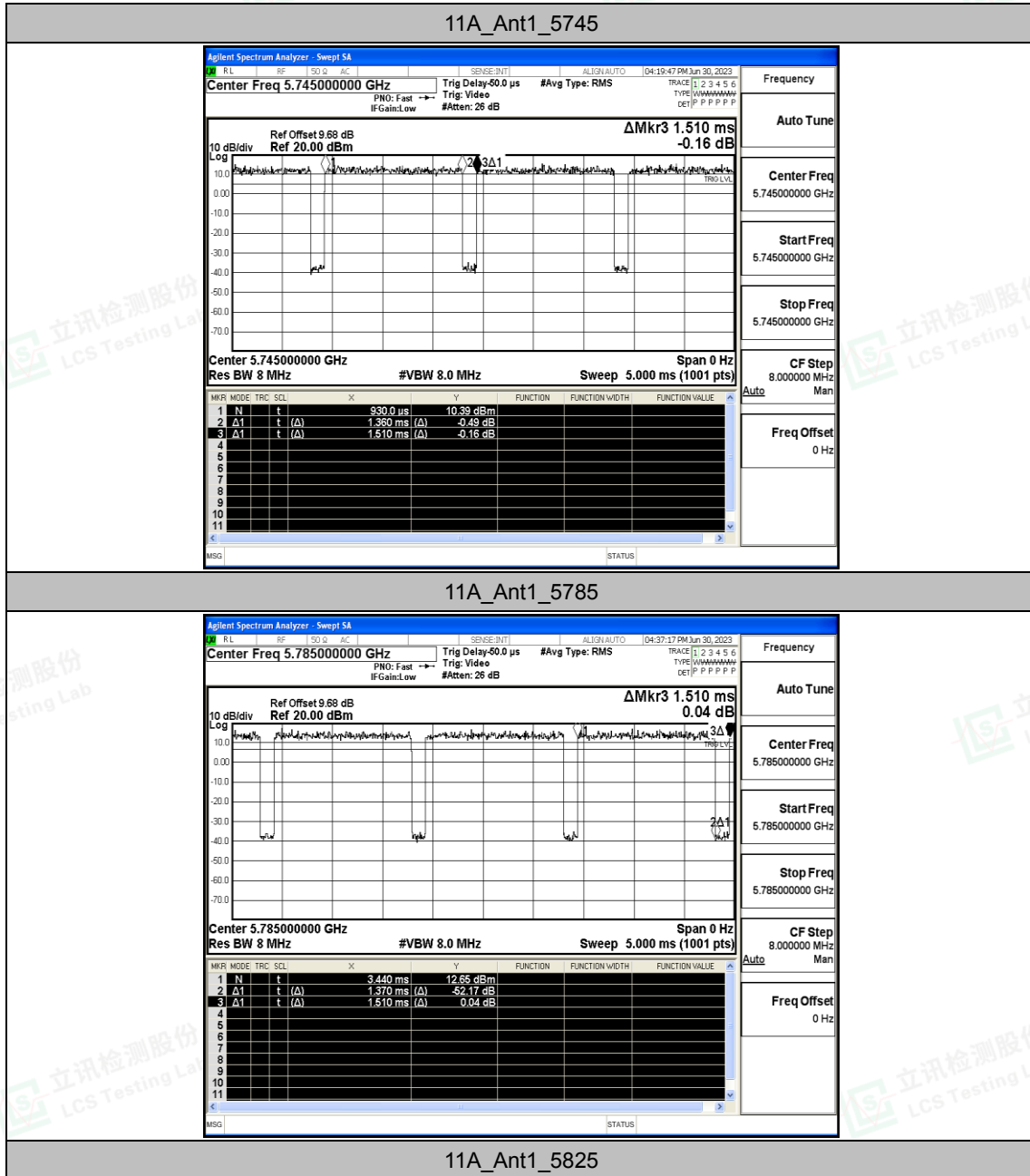
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.36	1.51	90.07
		5785	1.37	1.51	90.73
		5825	1.37	1.51	90.73
11N20SISO	Ant1	5745	1.15	1.29	89.15
		5785	1.15	1.30	88.46
		5825	1.15	1.30	88.46
11N40SISO	Ant1	5755	0.58	0.72	80.56
		5795	0.57	0.72	79.17
11AC20SISO	Ant1	5745	1.16	1.30	89.23
		5785	1.16	1.31	88.55
		5825	1.16	1.30	89.23

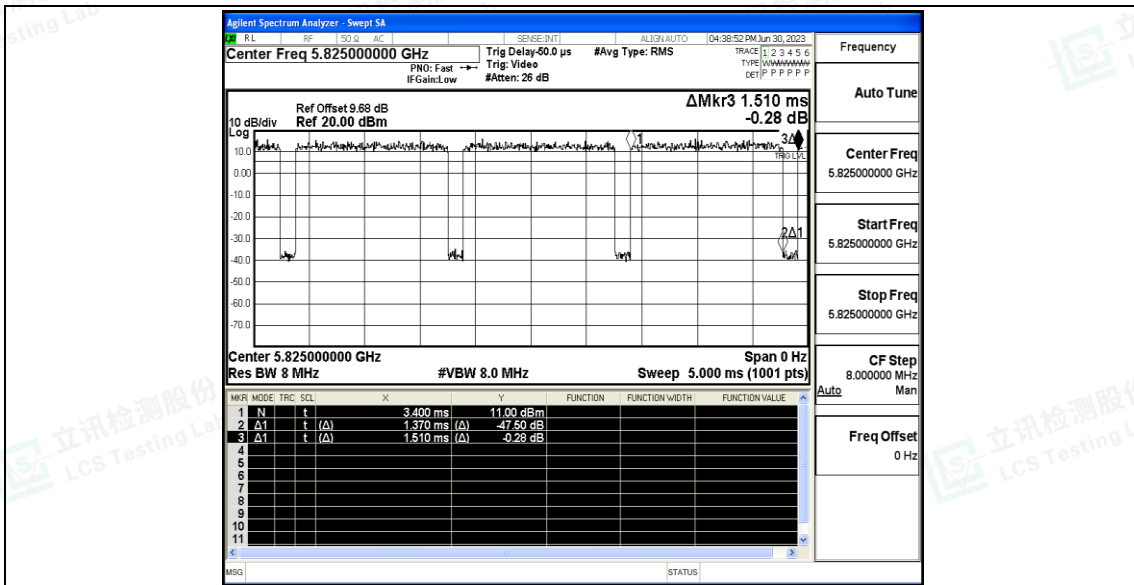


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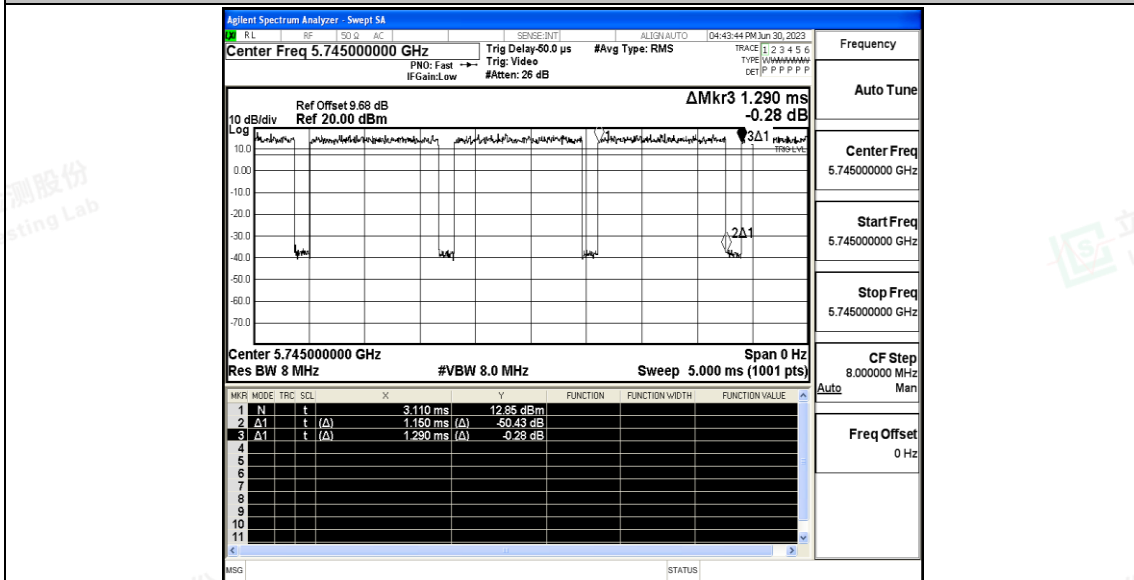


Test Graphs



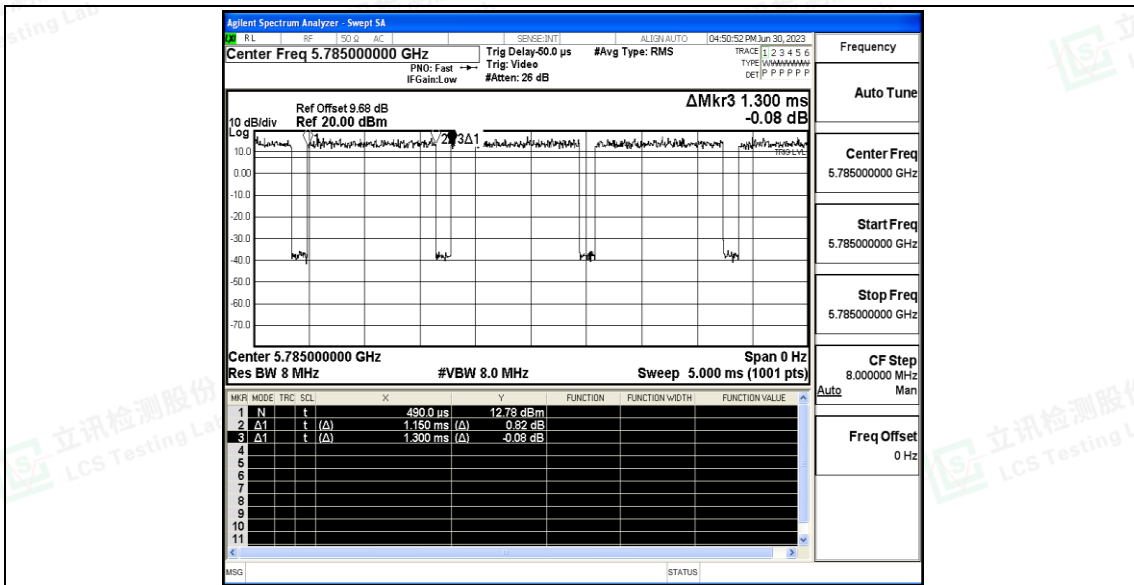


11N20SISO_Ant1_5745

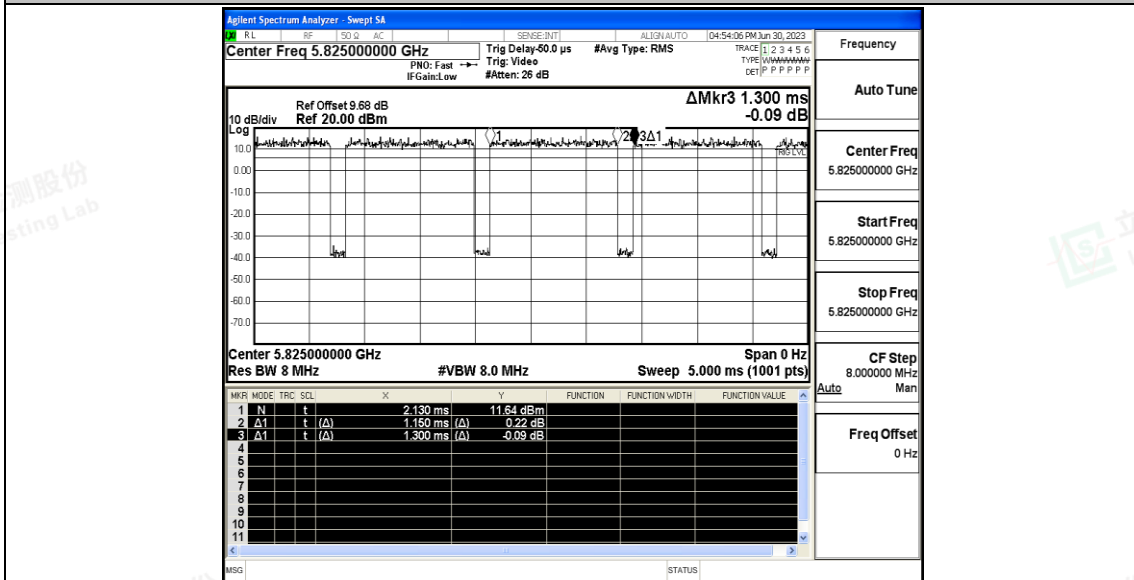


11N20SISO_Ant1_5785



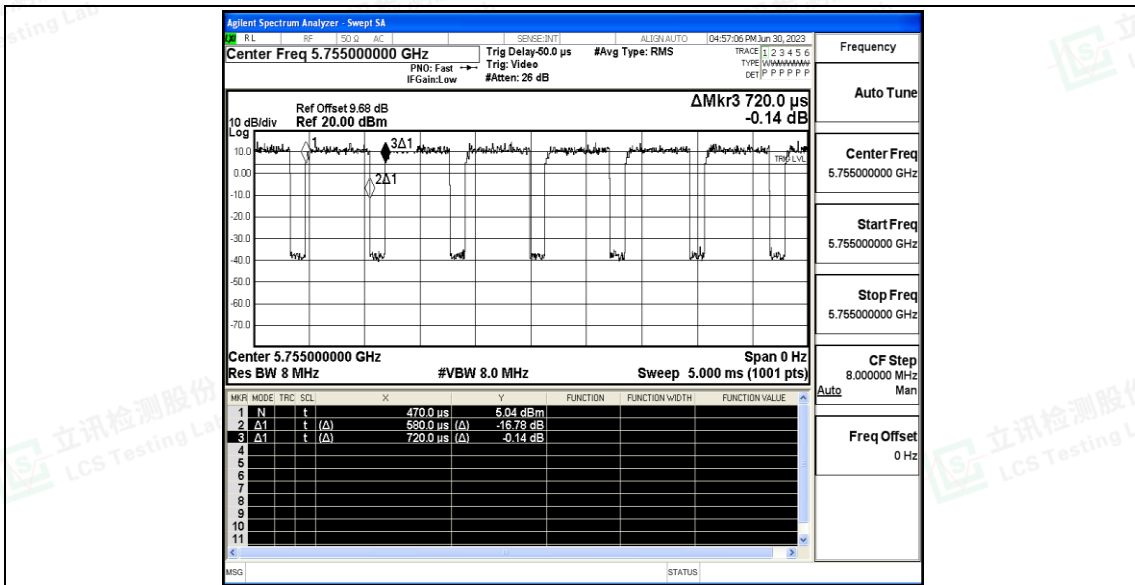


11N20SISO_Ant1_5825

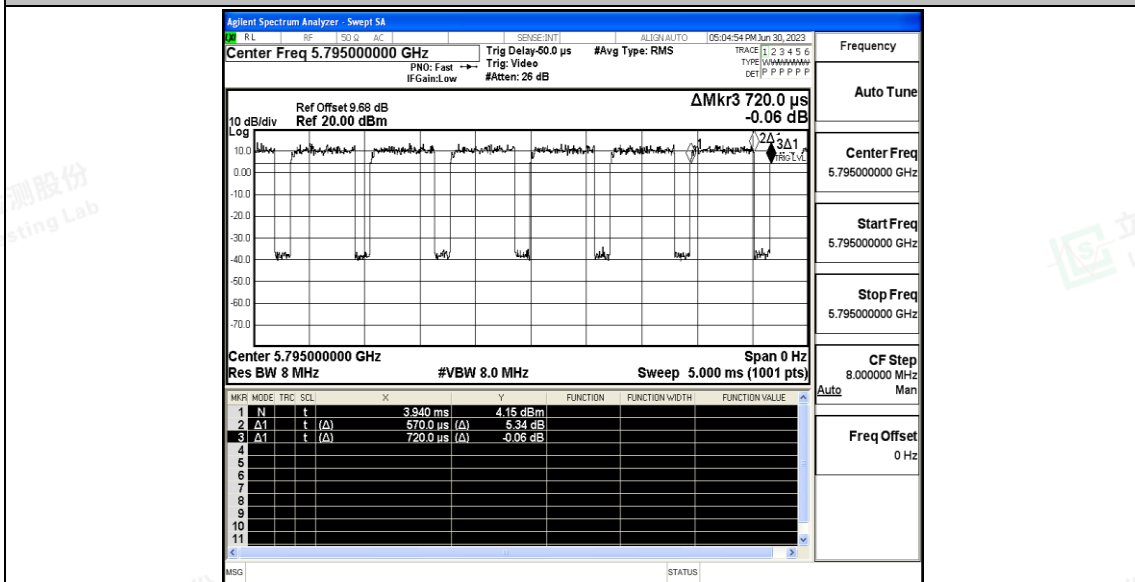


11N40SISO_Ant1_5755



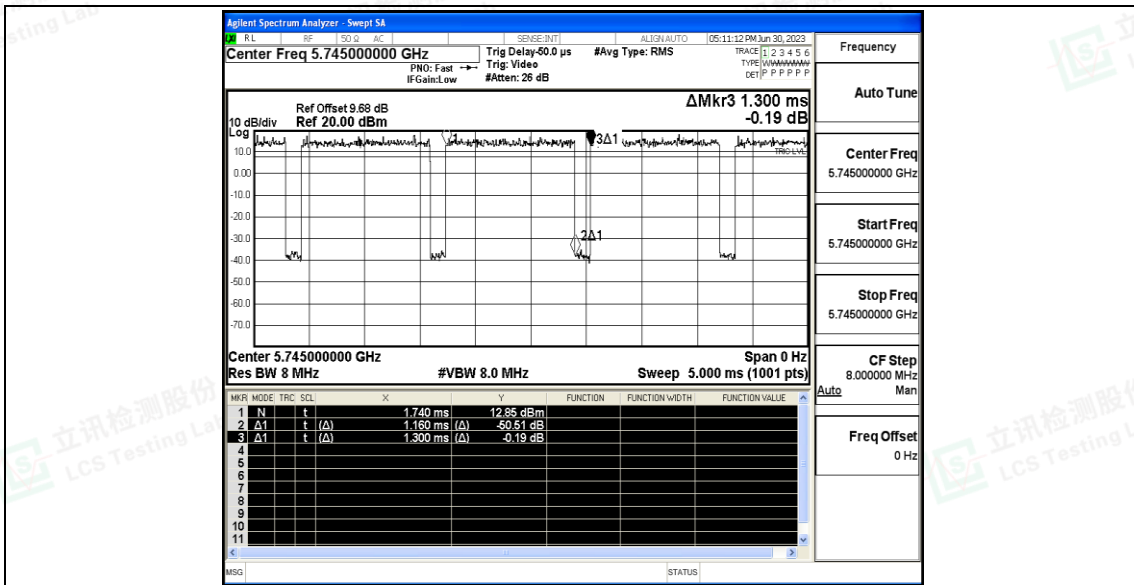


11N40SISO_Ant1_5795

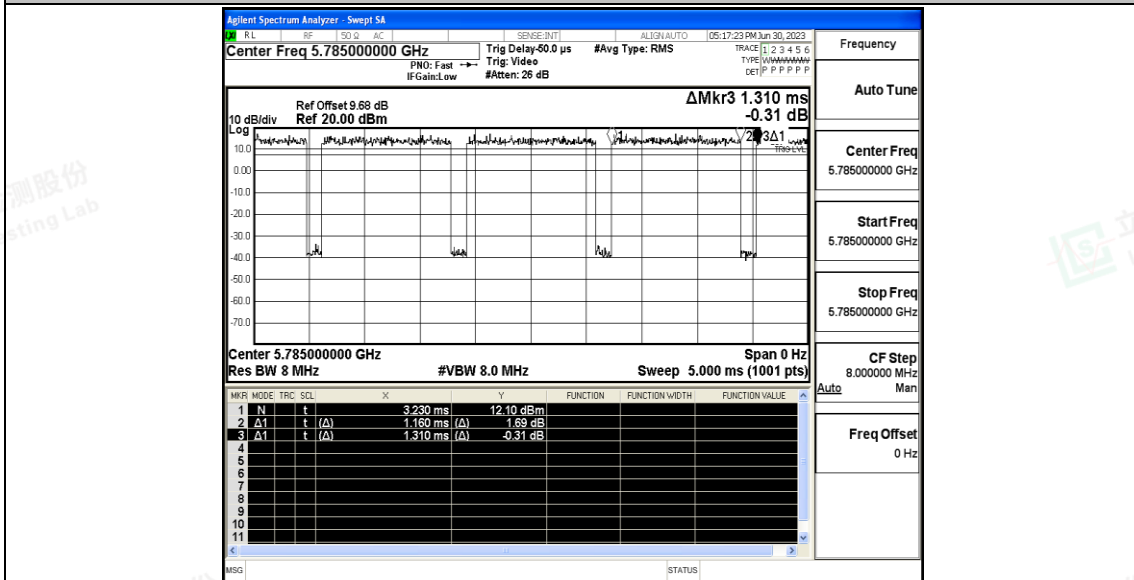


11AC20SISO_Ant1_5745



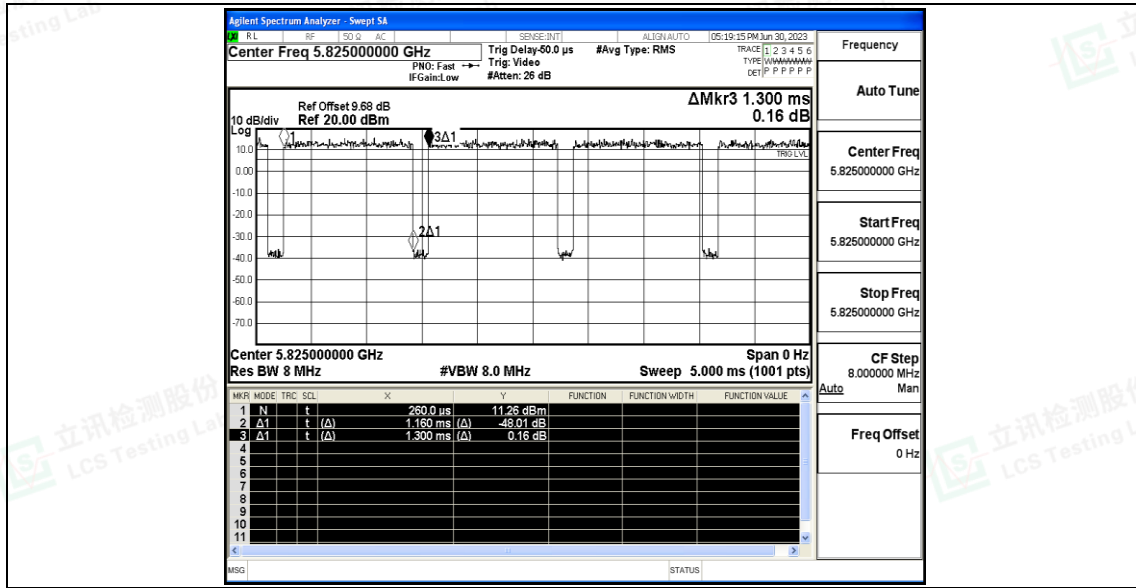


111AC20SISO_Ant1_5785



111AC20SISO_Ant1_5825





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