



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Tablet Pc

Test Model: P81L

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





E.1 6dB bandwidth

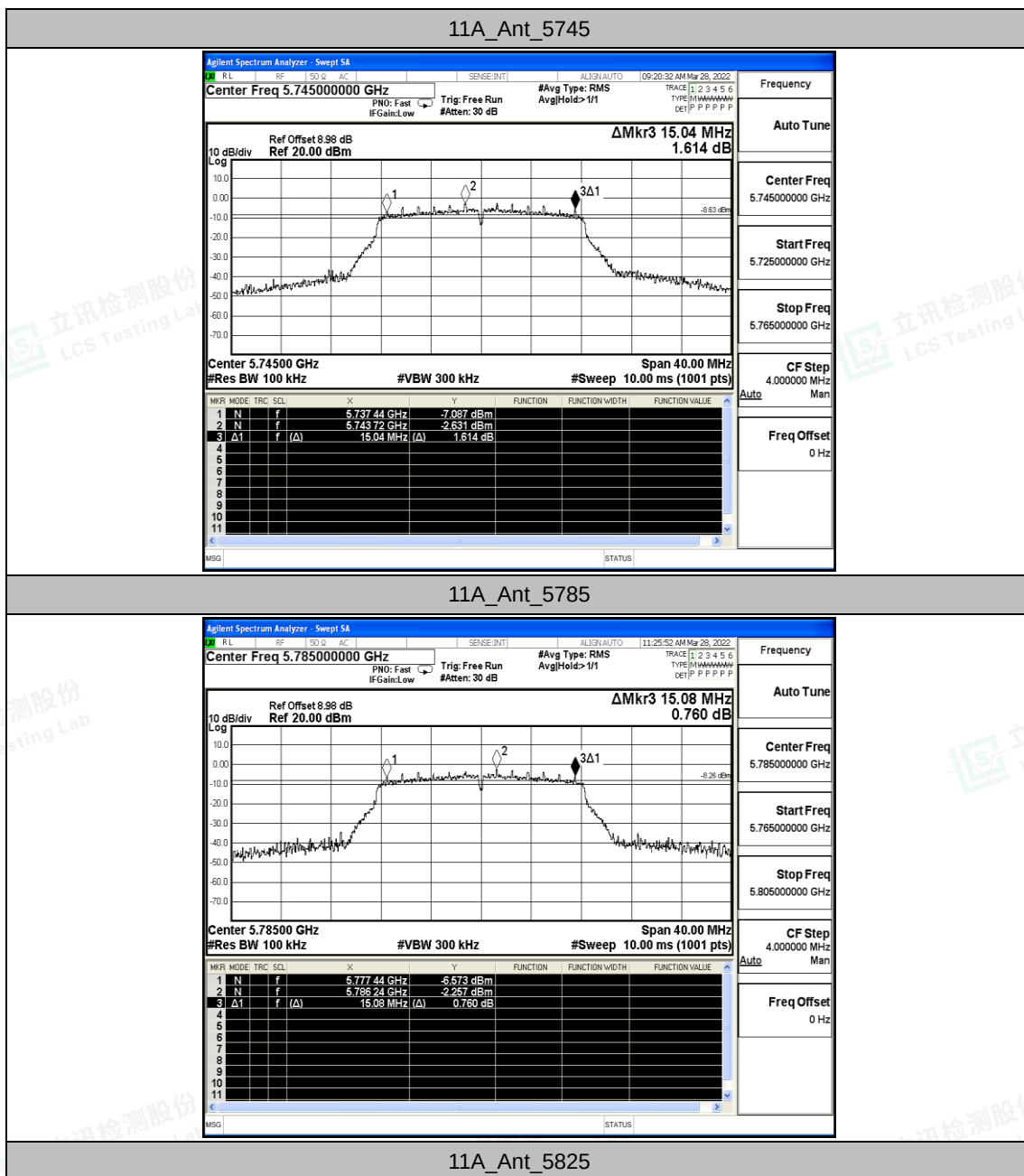
Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	15.040	5737.440	5752.480	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	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	15.120	5737.440	5752.560	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	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

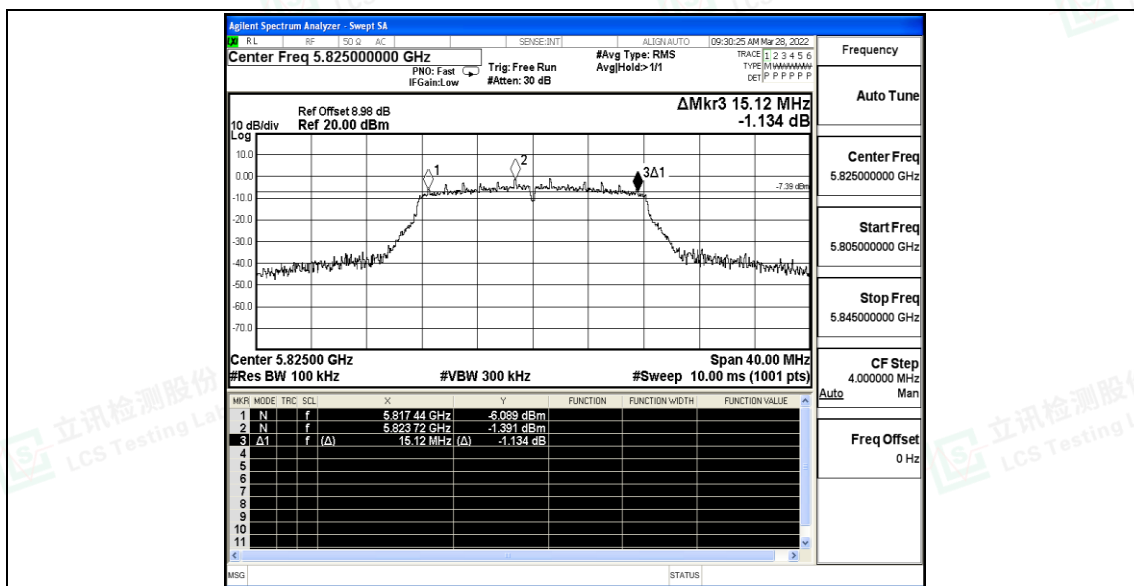


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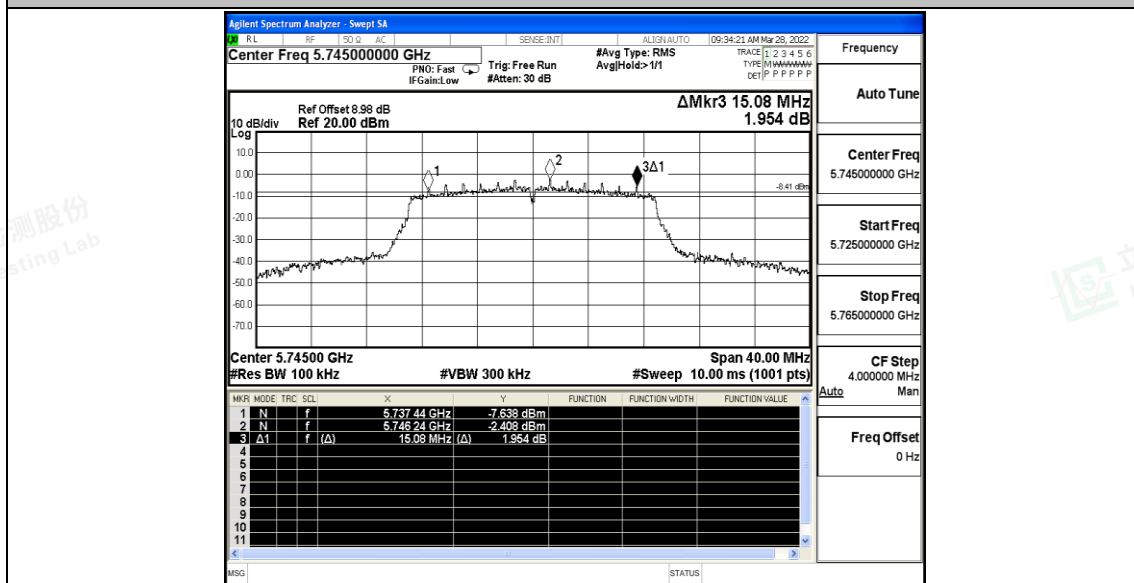
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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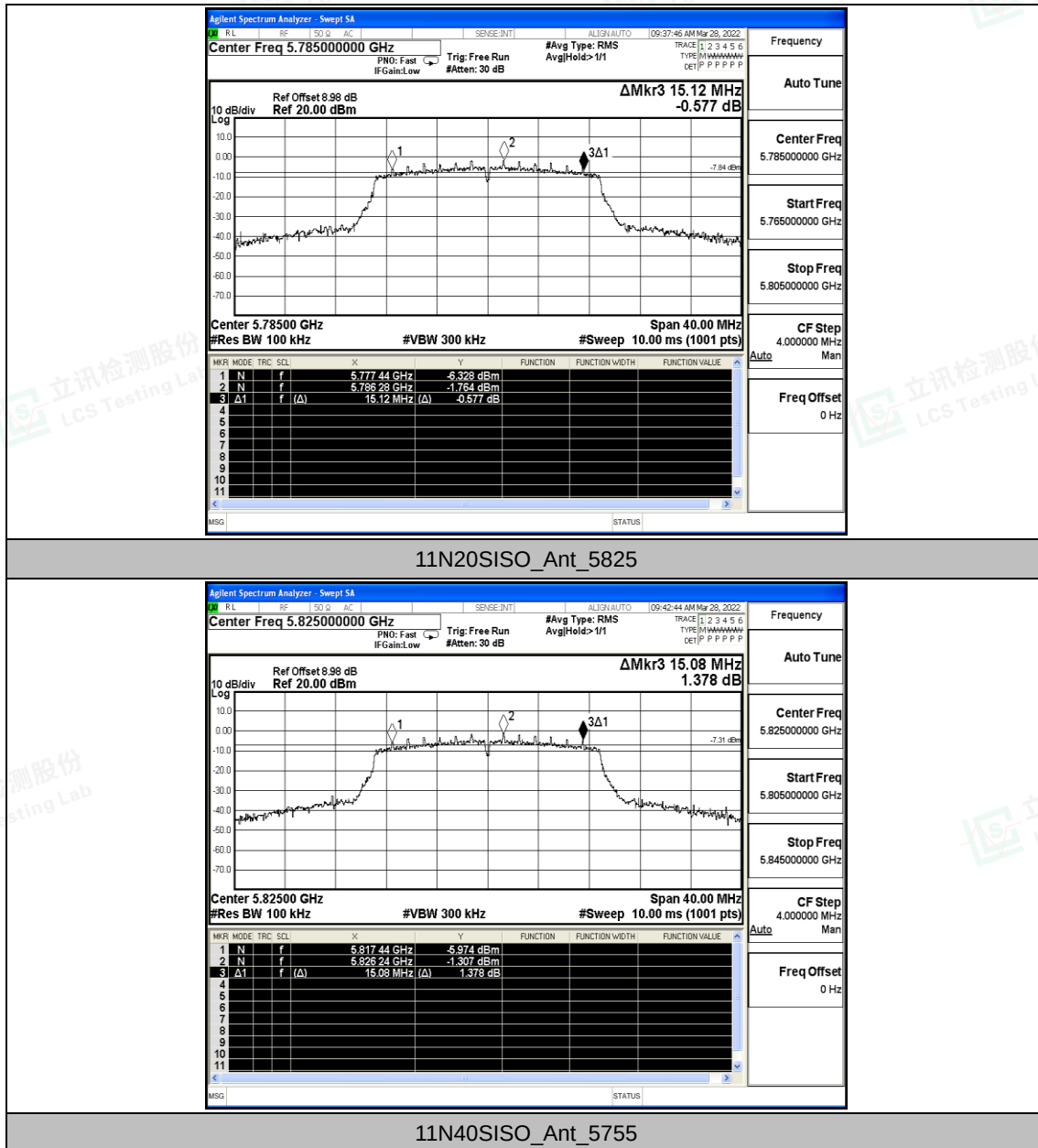


11N20SISO Ant 5745



11N20SISO Ant 5785



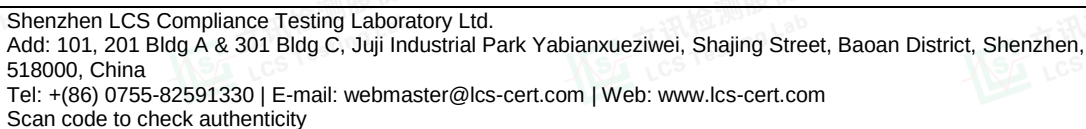
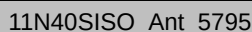


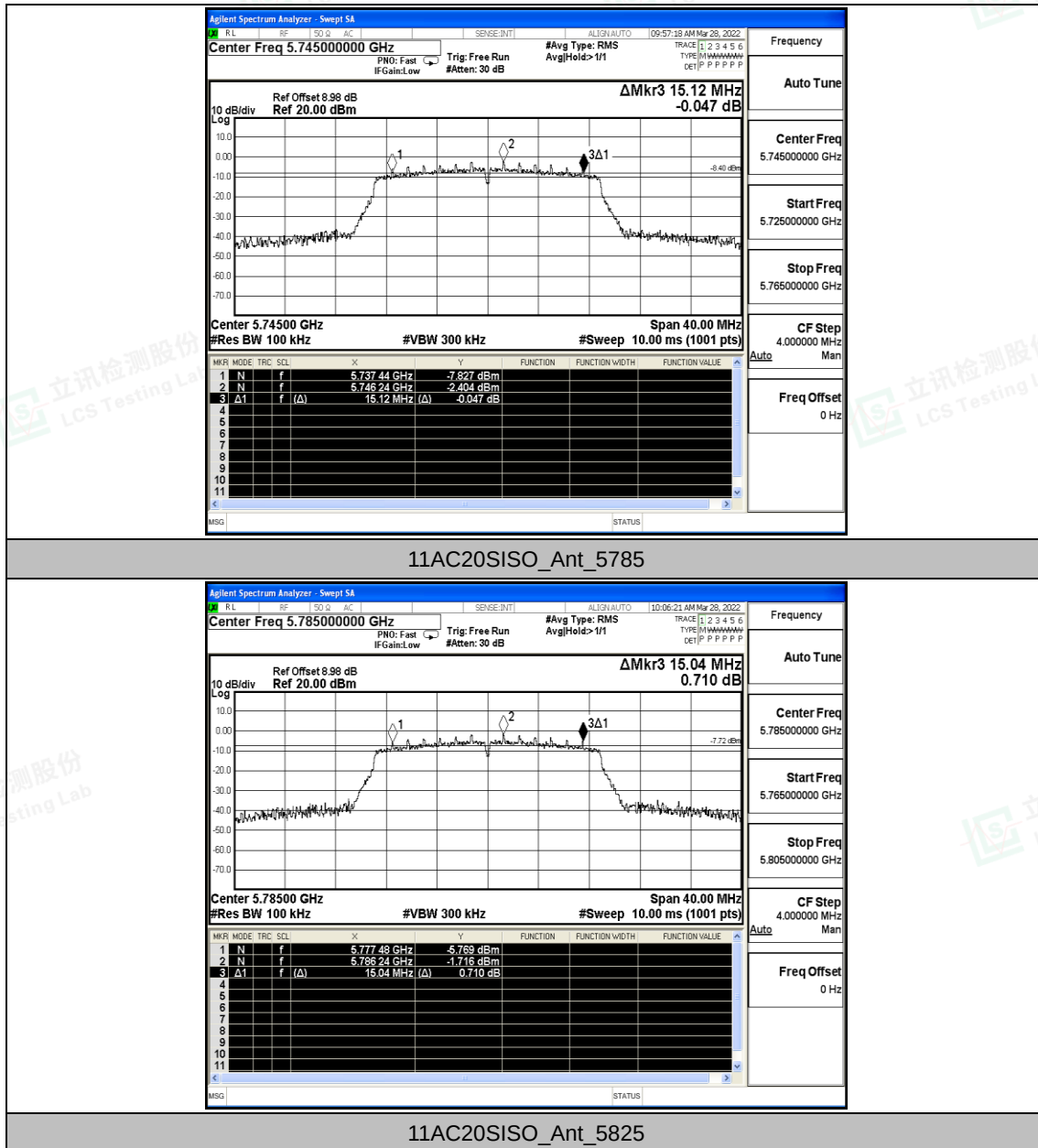
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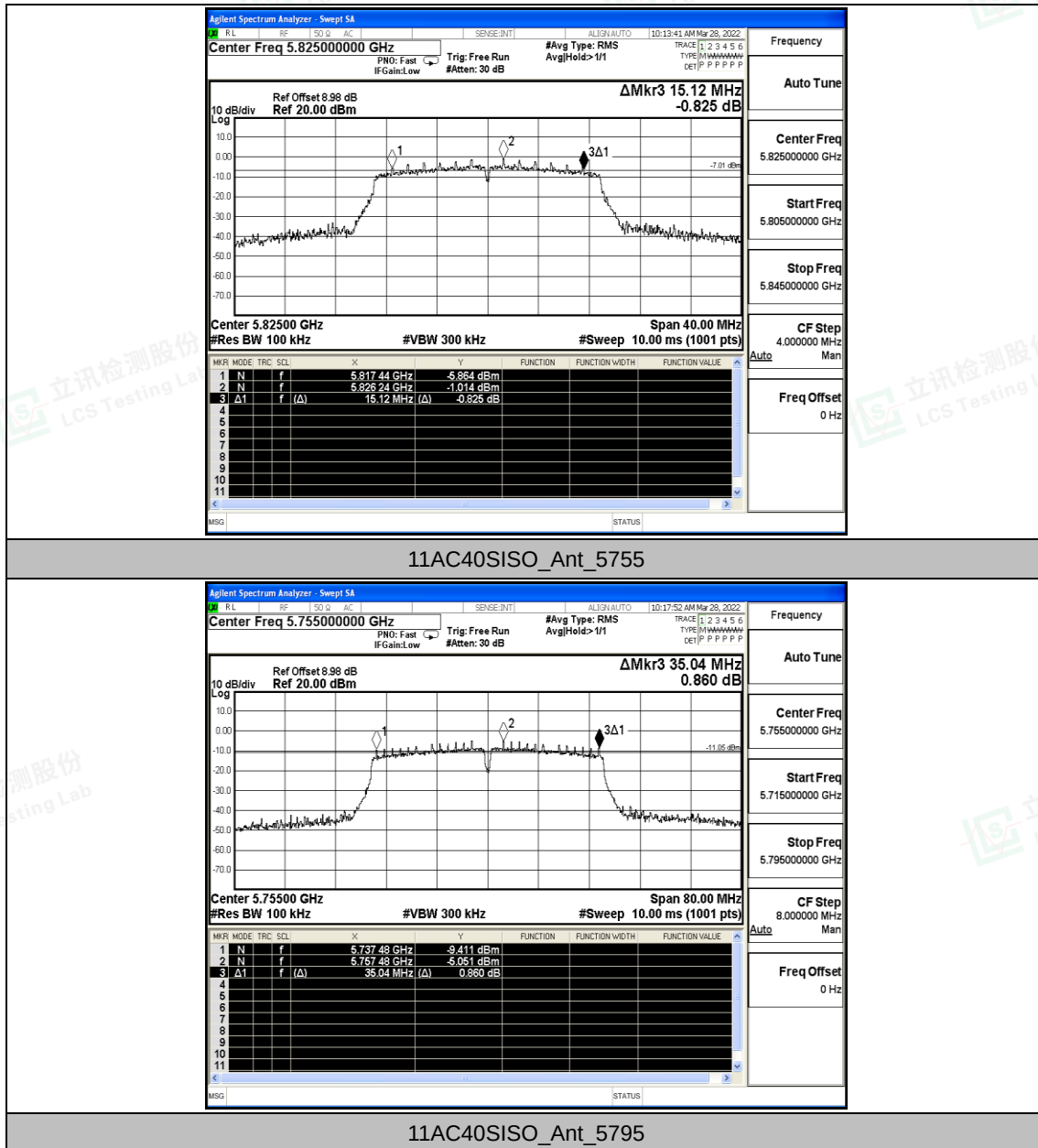
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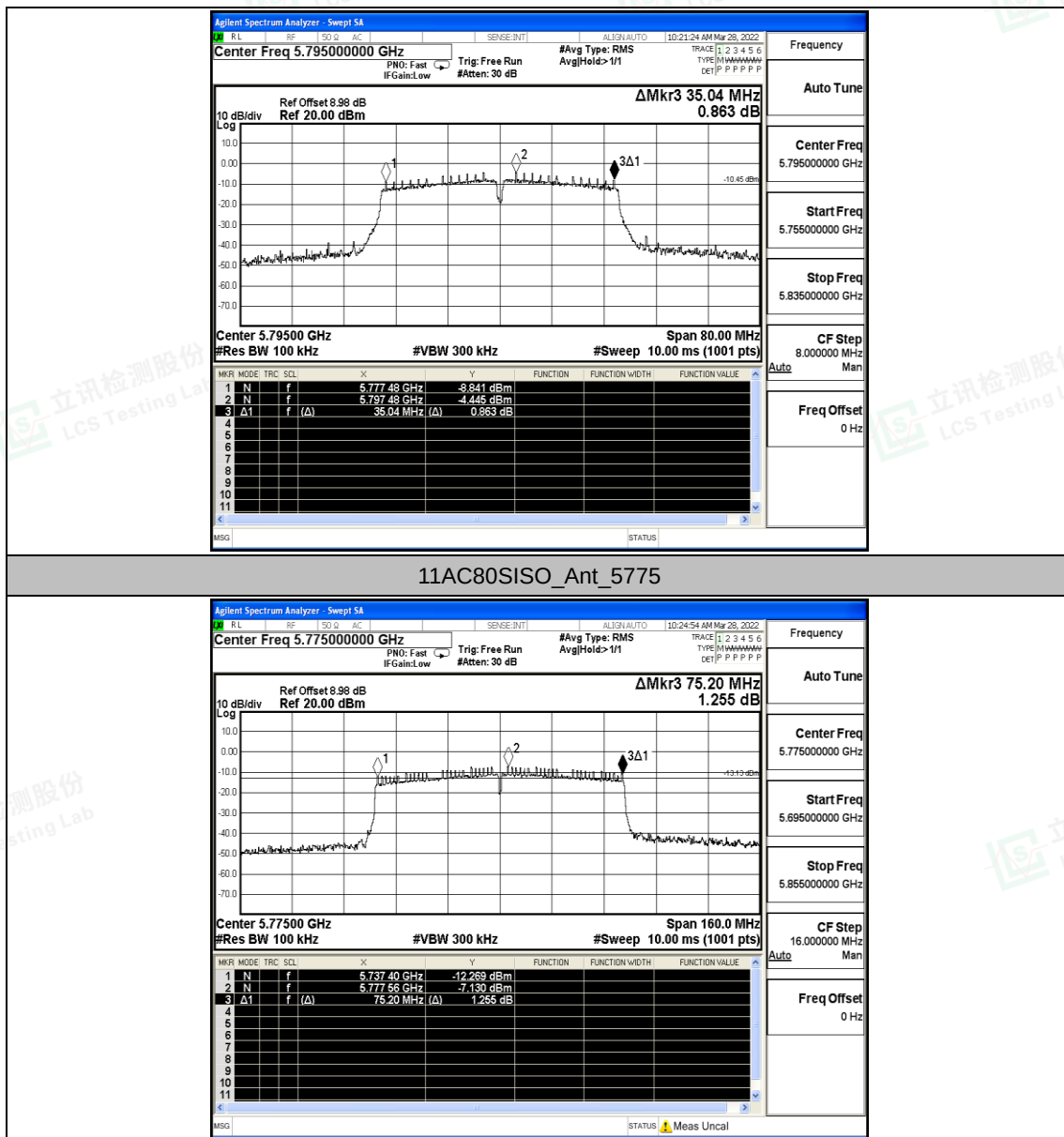
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E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5745	7.99	≤30.00	PASS
		5785	8.28	≤30.00	PASS
		5825	9.32	≤30.00	PASS
11N20SISO	Ant	5745	7.82	≤30.00	PASS
		5785	8.85	≤30.00	PASS
		5825	9.07	≤30.00	PASS
11N40SISO	Ant	5755	8.05	≤30.00	PASS
		5795	8.68	≤30.00	PASS
11AC20SISO	Ant	5745	7.98	≤30.00	PASS
		5785	8.64	≤30.00	PASS
		5825	9.28	≤30.00	PASS
11AC40SISO	Ant	5755	8.03	≤30.00	PASS
		5795	8.63	≤30.00	PASS
11AC80SISO	Ant	5775	8.32	≤30.00	PASS

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





E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant	5745	-5.26	≤30.00	PASS
		5785	-5.01	≤30.00	PASS
		5825	-3.87	≤30.00	PASS
11N20SISO	Ant	5745	-5.7	≤30.00	PASS
		5785	-4.62	≤30.00	PASS
		5825	-4.3	≤30.00	PASS
11N40SISO	Ant	5755	-8.38	≤30.00	PASS
		5795	-7.64	≤30.00	PASS
11AC20SISO	Ant	5745	-5.45	≤30.00	PASS
		5785	-4.59	≤30.00	PASS
		5825	-4.17	≤30.00	PASS
11AC40SISO	Ant	5755	-8.37	≤30.00	PASS
		5795	-7.83	≤30.00	PASS
11AC80SISO	Ant	5775	-11.08	≤30.00	PASS

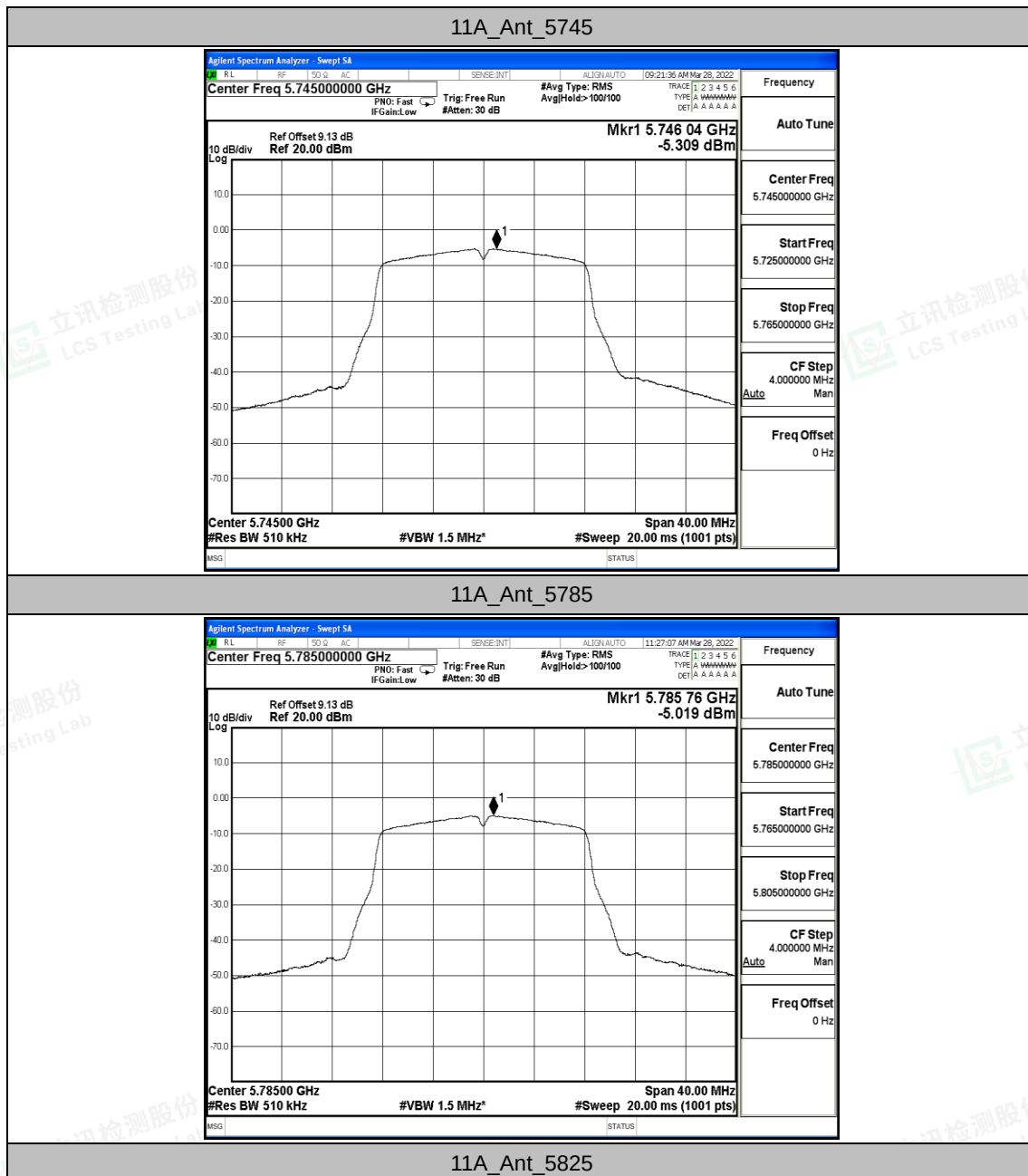
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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





Test Graphs

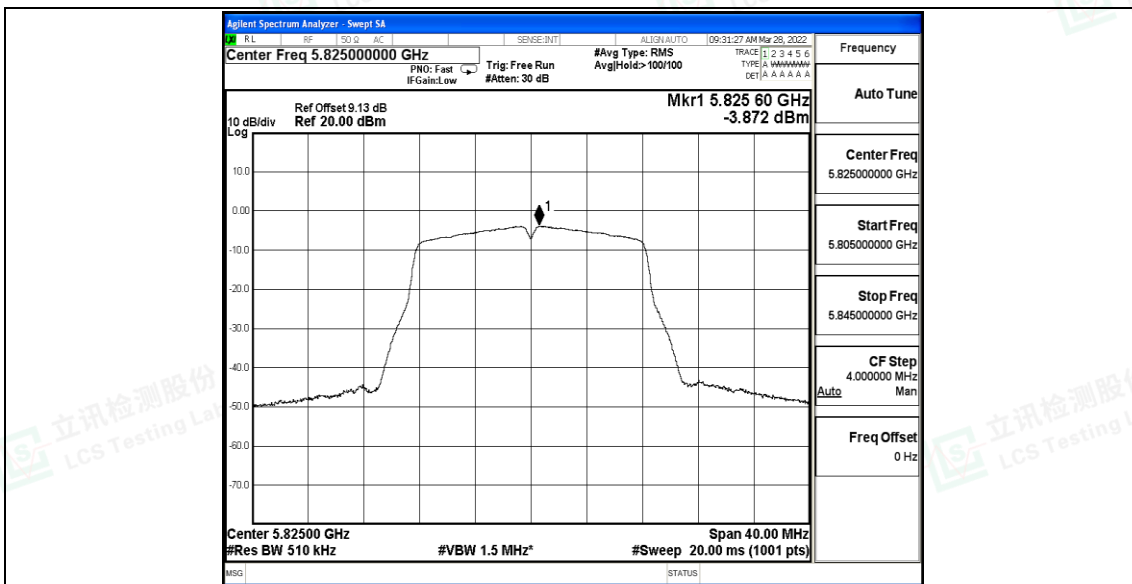


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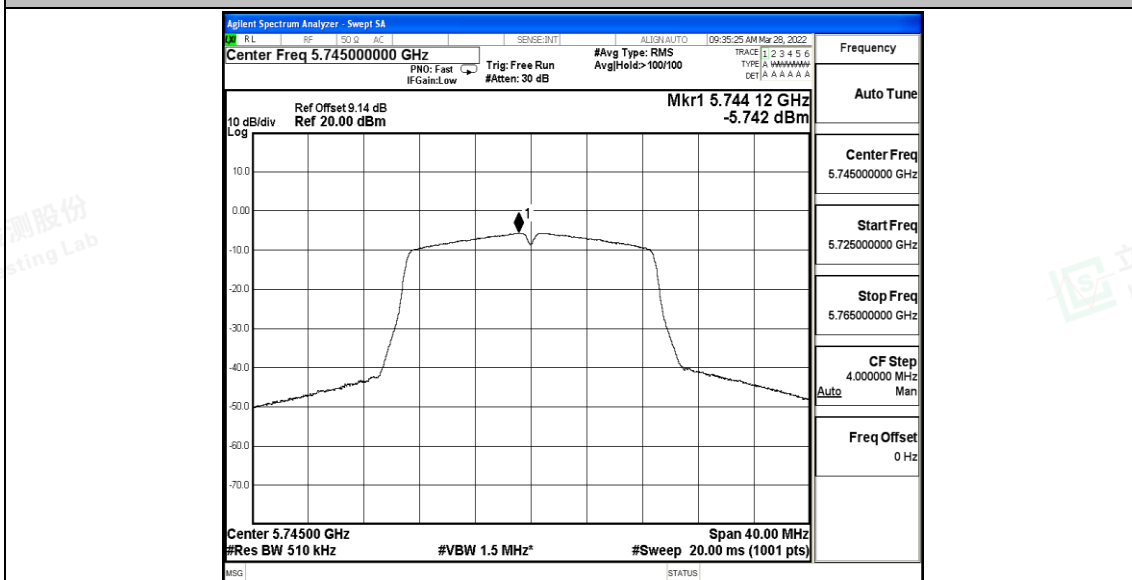
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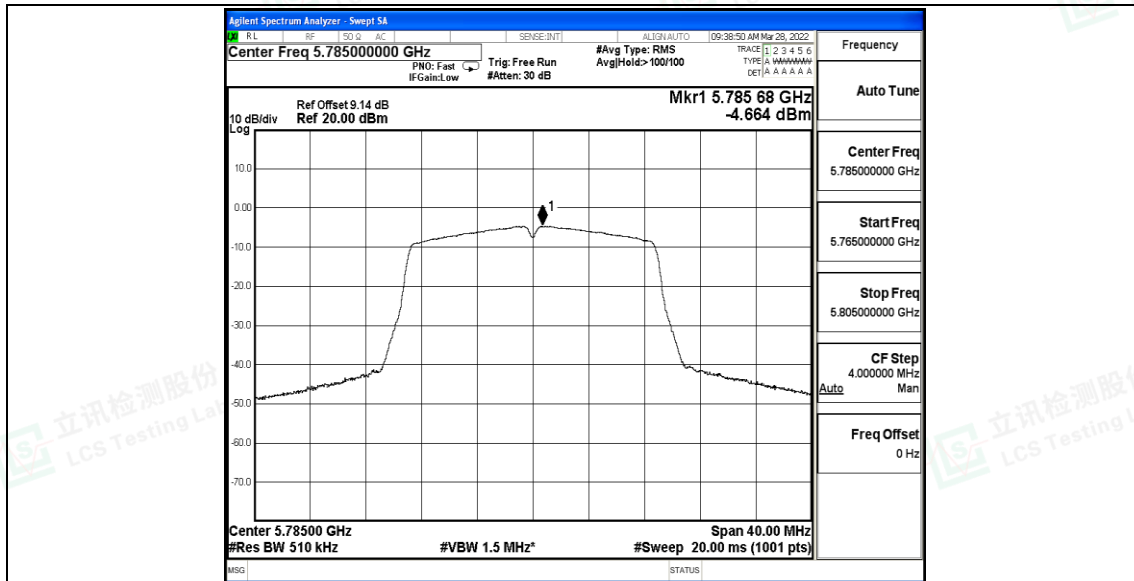


11N20SISO_Ant_5745

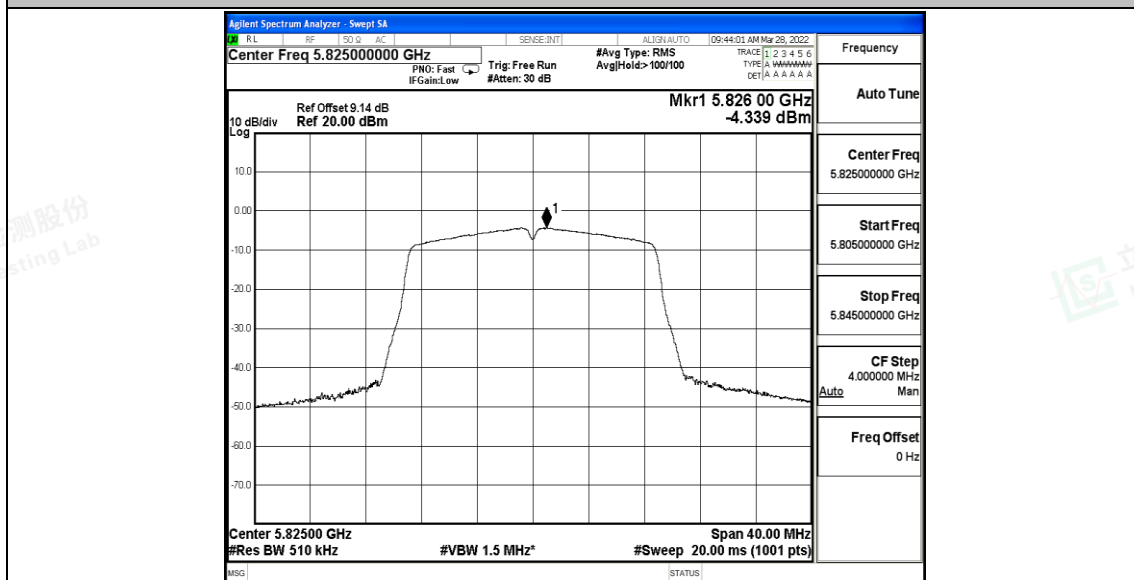


11N20SISO_Ant_5785



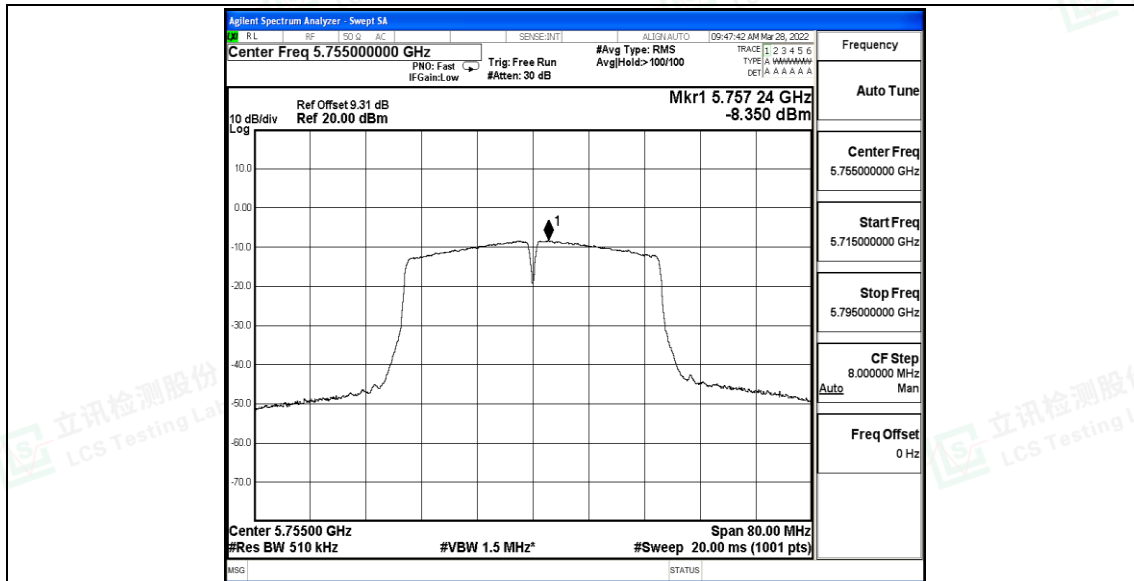


11N20SISO_Ant_5825

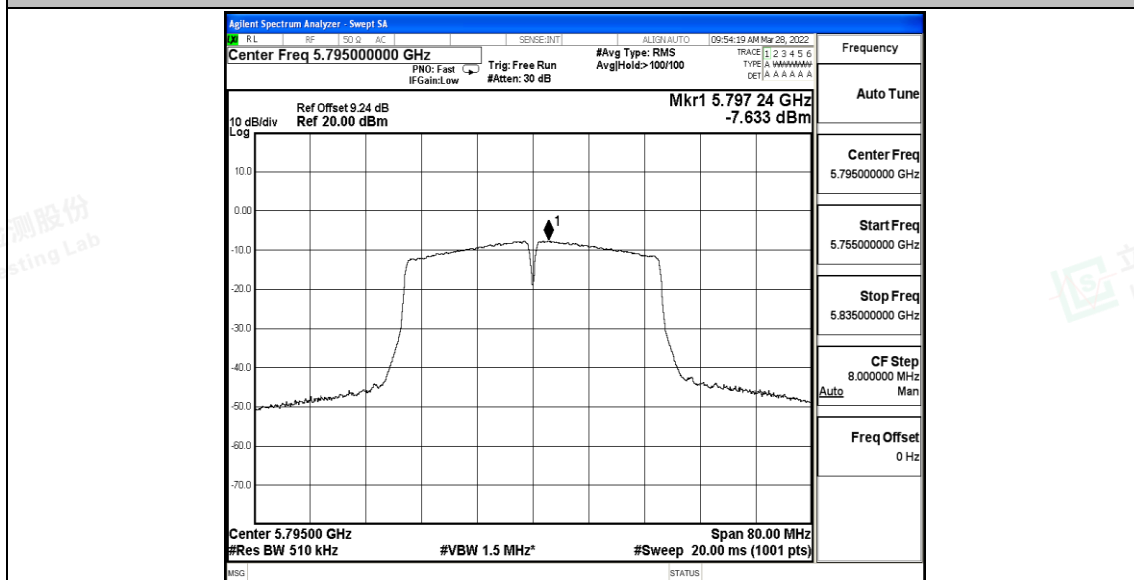


11N40SISO_Ant_5755



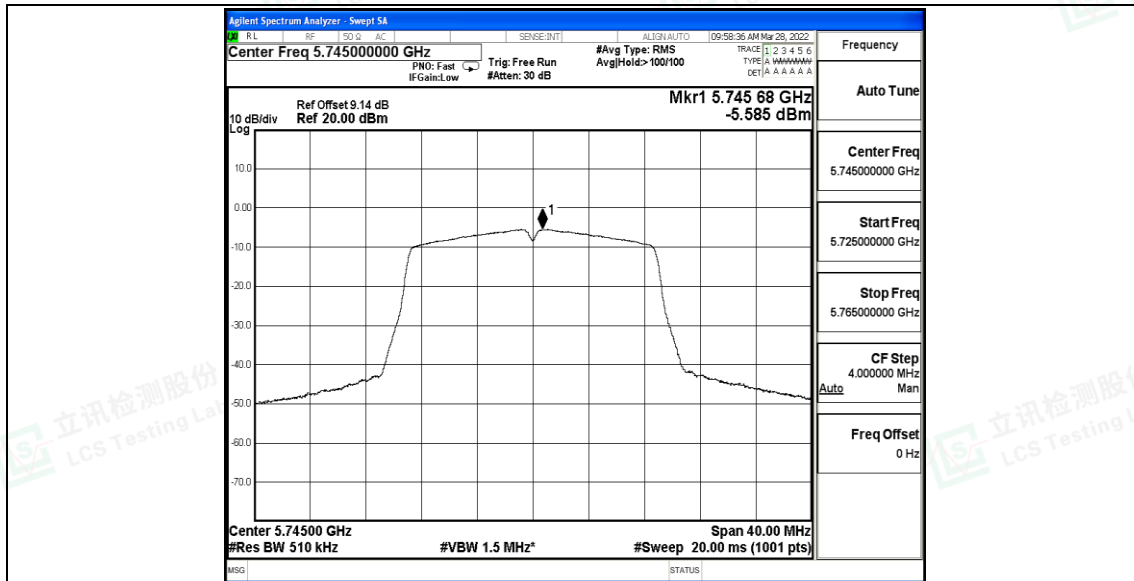


11N40SISO_Ant_5795

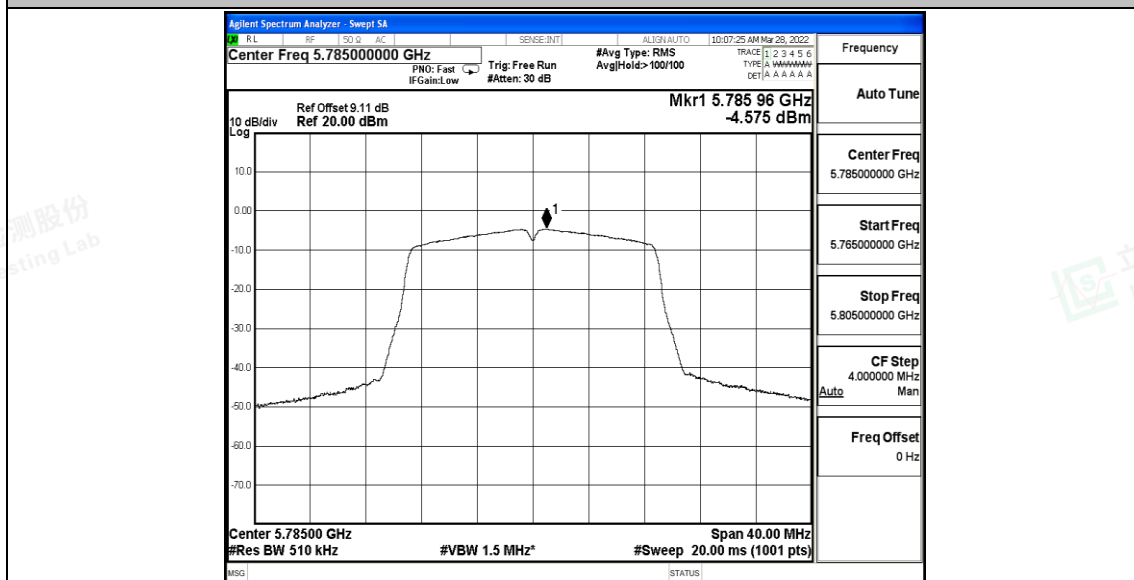


11AC20SISO_Ant_5745



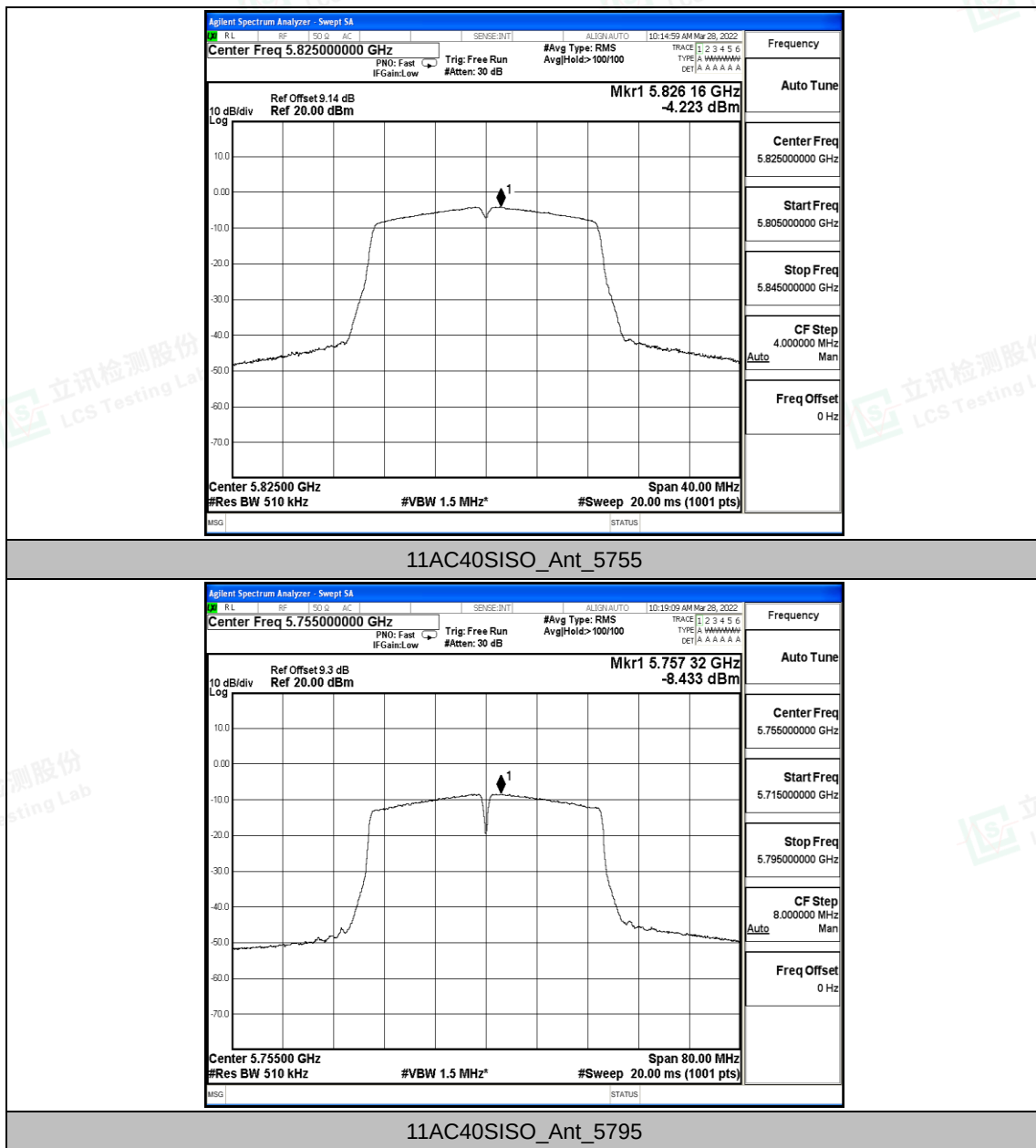


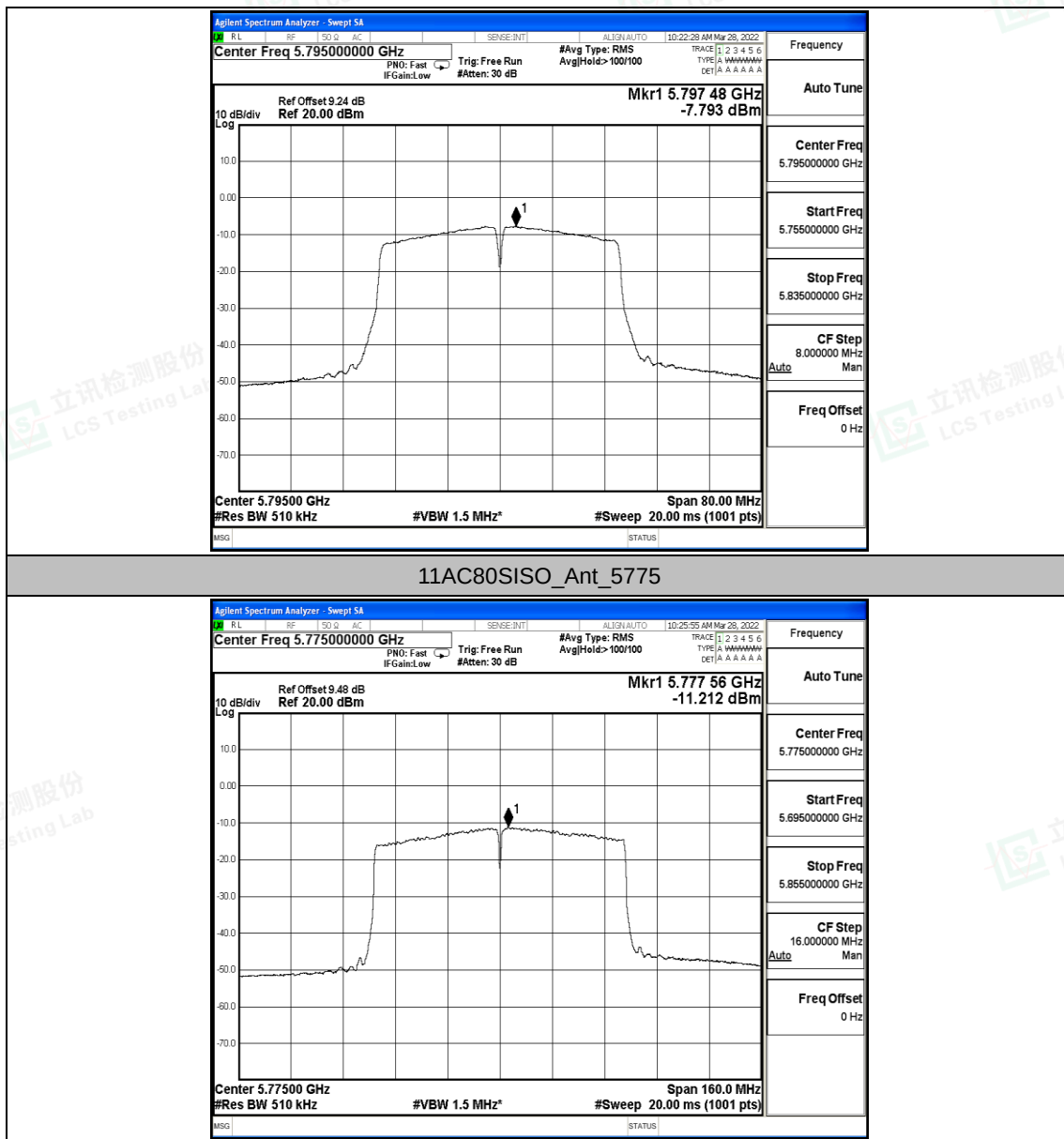
11AC20SISO_Ant_5785



11AC20SISO_Ant_5825







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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	-39.298	≤-27.00	---	---	PASS
				Peak	5700.000	-38.65	≤10.00	---	---	PASS
				Peak	5720.000	-36.98	≤15.60	---	---	PASS
				Peak	5725.000	-30.69	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-32.923	≤15.60	---	---	PASS
				Peak	5855.000	-36.91	≤27.00	---	---	PASS
				Peak	5875.000	-39.26	≤15.60	---	---	PASS
				Peak	5925.000	-39.25	≤10.00	---	---	PASS
11N20SIS O	Ant	Low	5745	Peak	5650.000	-38.681	≤-27.00	---	---	PASS
				Peak	5700.000	-37.81	≤10.00	---	---	PASS
				Peak	5720.000	-37.81	≤15.60	---	---	PASS
				Peak	5725.000	-27.66	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-29.437	≤15.60	---	---	PASS
				Peak	5855.000	-34.69	≤27.00	---	---	PASS
				Peak	5875.000	-38	≤15.60	---	---	PASS
				Peak	5925.000	-37.35	≤10.00	---	---	PASS
11N40SIS O	Ant	Low	5755	Peak	5650.000	-39.726	≤-27.00	---	---	PASS
				Peak	5700.000	-38.74	≤10.00	---	---	PASS
				Peak	5720.000	-23.74	≤15.60	---	---	PASS
				Peak	5725.000	-22.65	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-33.893	≤15.60	---	---	PASS
				Peak	5855.000	-34.29	≤27.00	---	---	PASS
				Peak	5875.000	-38.02	≤15.60	---	---	PASS
				Peak	5925.000	-39.58	≤10.00	---	---	PASS
11AC20SI SO	Ant	Low	5745	Peak	5650.000	-39.286	≤-27.00	---	---	PASS
				Peak	5700.000	-38.57	≤10.00	---	---	PASS
				Peak	5720.000	-34.67	≤15.60	---	---	PASS
				Peak	5725.000	-29.71	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-31.921	≤15.60	---	---	PASS
				Peak	5855.000	-34.85	≤27.00	---	---	PASS
				Peak	5875.000	-37.07	≤15.60	---	---	PASS
				Peak	5925.000	-38.14	≤10.00	---	---	PASS
11AC40SI SO	Ant	Low	5755	Peak	5650.000	-38.654	≤-27.00	---	---	PASS
				Peak	5700.000	-38.92	≤10.00	---	---	PASS
				Peak	5720.000	-30.83	≤15.60	---	---	PASS



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		High	5795	Peak	5725.000	-29.57	≤27.00	- - -	- - -	PASS
				Peak	5850.000	-35.876	≤15.60	---	---	PASS
				Peak	5855.000	-36.4	≤27.00	---	---	PASS
				Peak	5875.000	-38.14	≤15.60	---	---	PASS
				Peak	5925.000	-38.98	≤10.00	- - -	- - -	PASS
11AC80SI SO	Ant	Low	5775	Peak	5650.000	-39.66	≤27.00	---	---	PASS
				Peak	5700.000	-35.81	≤10.00	---	---	PASS
				Peak	5720.000	-31.18	≤15.60	---	---	PASS
				Peak	5725.000	-26.23	≤27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-30.458	≤15.60	---	---	PASS
				Peak	5855.000	-31.55	≤27.00	---	---	PASS
				Peak	5875.000	-35.13	≤15.60	---	---	PASS
				Peak	5925.000	-38.45	≤10.00	- - -	- - -	PASS

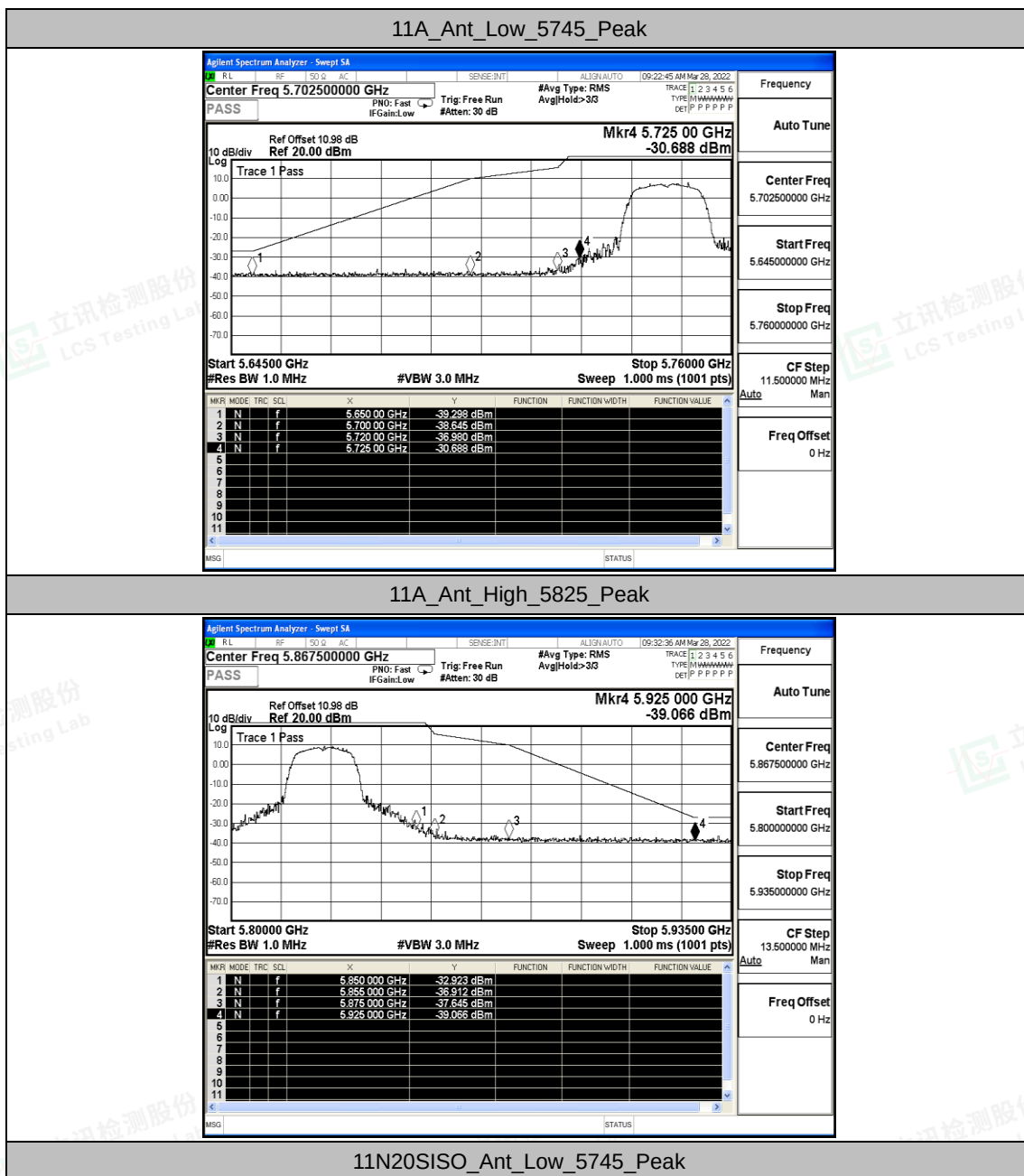
Note:

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

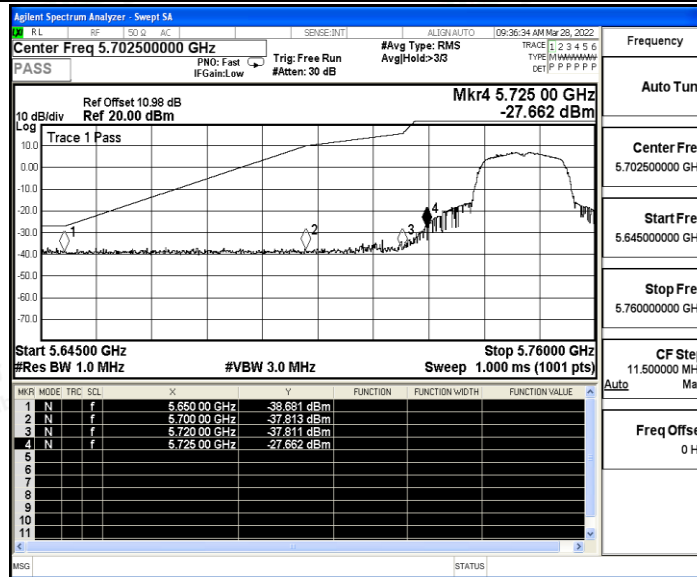


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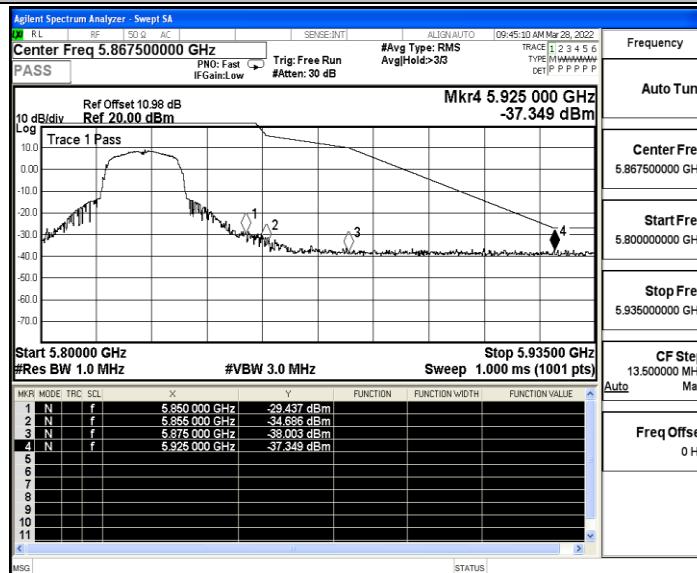
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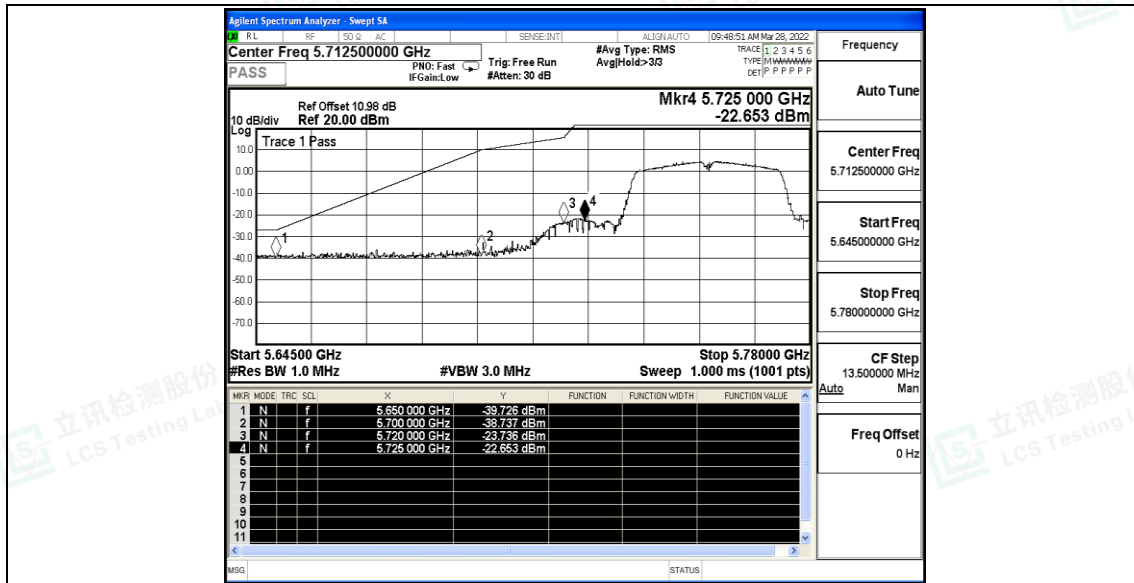


11N20SISO_Ant_High_5825_Peak

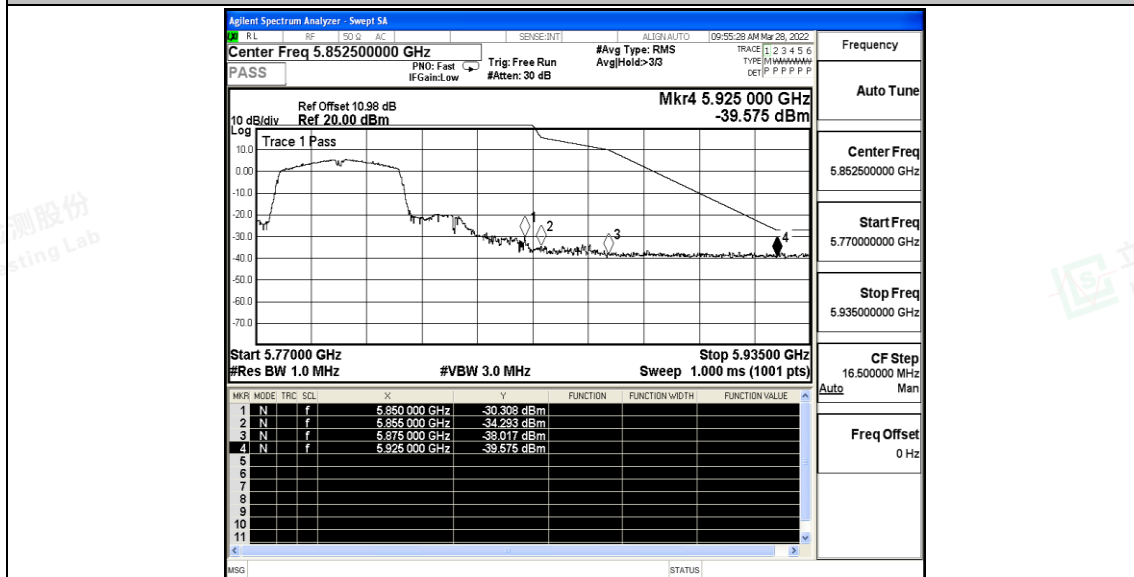


11N40SISO_Ant_Low_5755_Peak





11N40SISO_Ant_High_5795_Peak



11AC20SISO_Ant_Low_5745_Peak

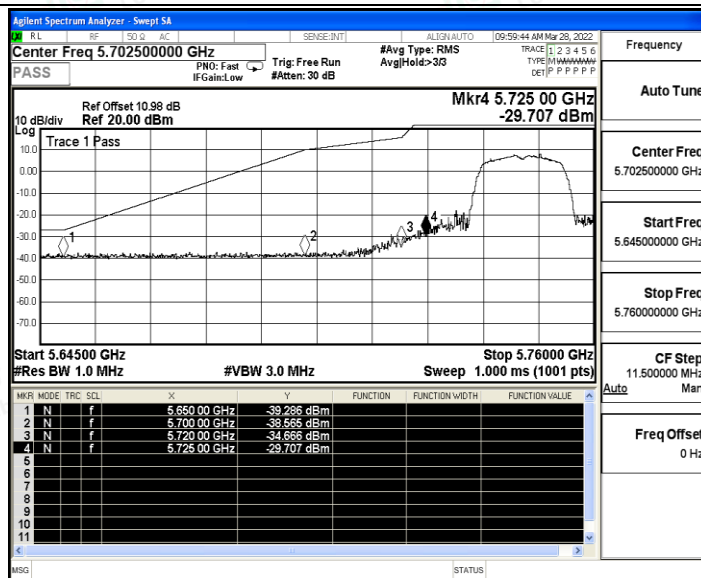


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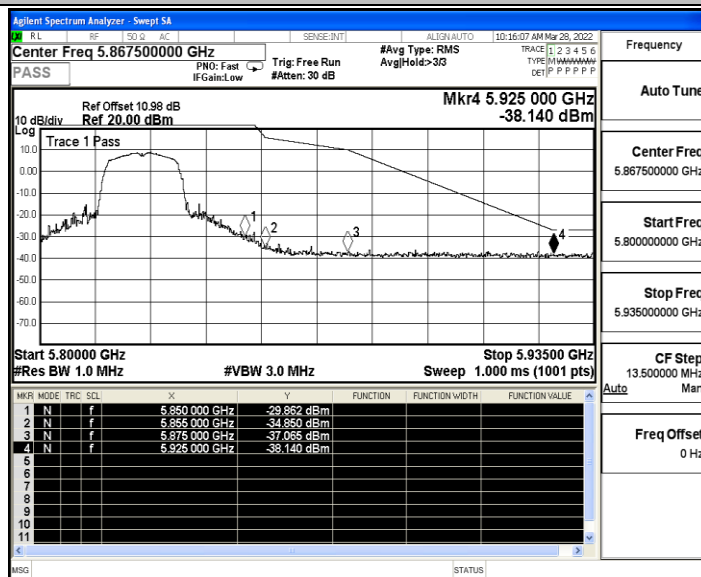
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11AC20SISO_Ant_High_5825_Peak



11AC40SISO_Ant_Low_5755_Peak

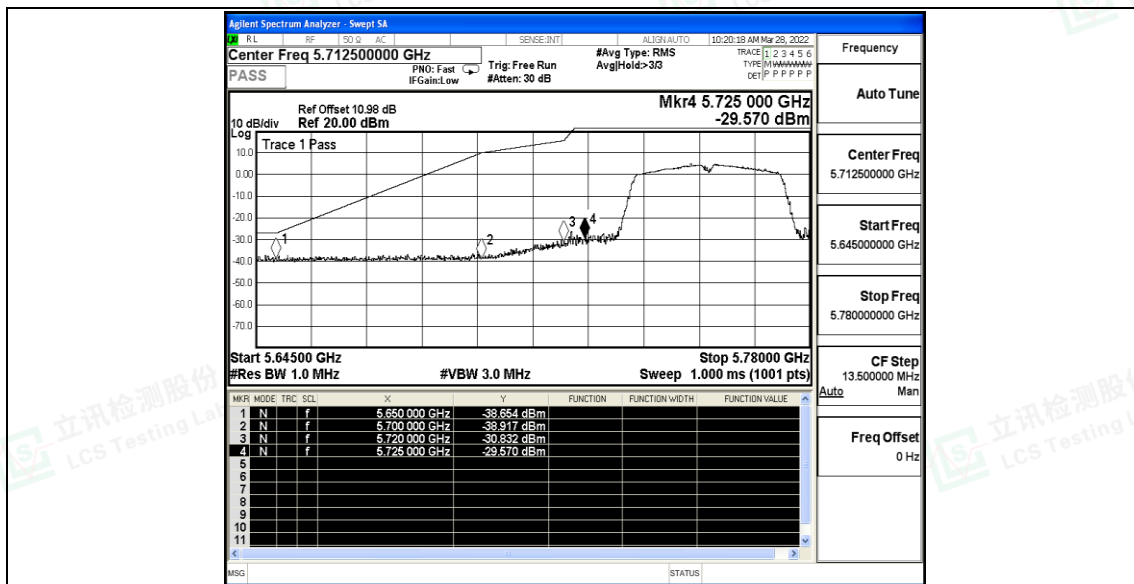


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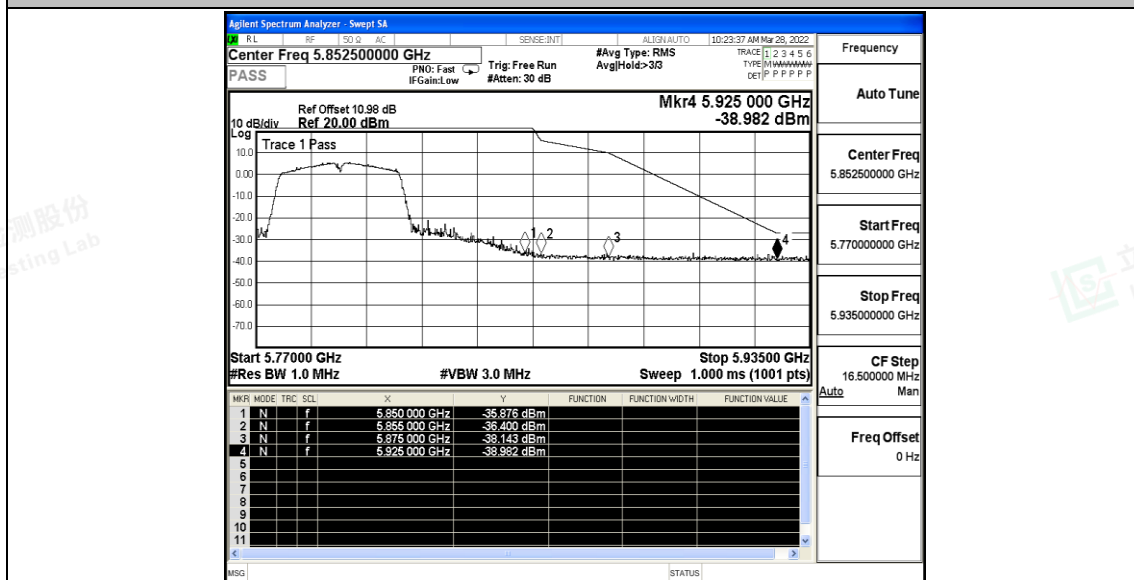
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11AC40SISO_Ant_High_5795_Peak



11AC80SISO_Ant_Low_5775_Peak

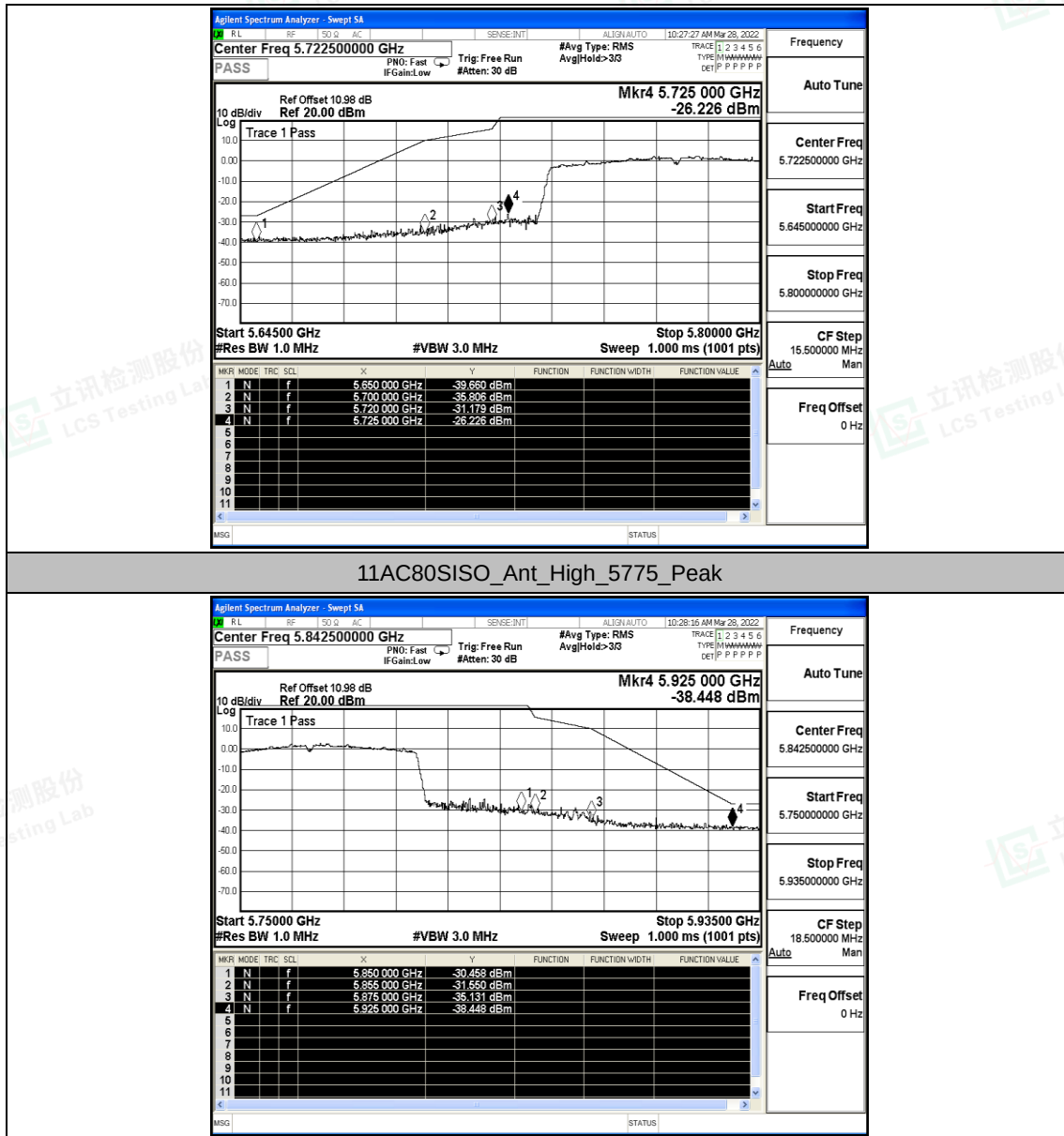


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E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5745	NV	NT	-20000	-3.481288	20	PASS
			LV	NT	-20000	-3.481288	20	PASS
			HV	NT	-20000	-3.481288	20	PASS
		5785	NV	NT	-20000	-3.457217	20	PASS
			LV	NT	-20000	-3.457217	20	PASS
			HV	NT	-20000	-3.457217	20	PASS
		5825	NV	NT	-20000	-3.433476	20	PASS
			LV	NT	-20000	-3.433476	20	PASS
			HV	NT	-20000	-3.433476	20	PASS
11AC40S ISO	Ant	5755	NV	NT	-22000	-3.822763	20	PASS
			LV	NT	-23000	-3.996525	20	PASS
			HV	NT	-23000	-3.996525	20	PASS
		5795	NV	NT	-24000	-4.141501	20	PASS
			LV	NT	-24000	-4.141501	20	PASS
			HV	NT	-24000	-4.141501	20	PASS
11AC80S ISO	Ant	5775	NV	NT	-23000	-3.982684	20	PASS
			LV	NT	-24000	-4.155844	20	PASS
			HV	NT	-24000	-4.155844	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5745	NV	-30	-20000	-3.481288	20	PASS
			NV	-20	-20000	-3.481288	20	PASS
			NV	-10	-20000	-3.481288	20	PASS
			NV	0	-20000	-3.481288	20	PASS
			NV	10	-20000	-3.481288	20	PASS
			NV	20	-20000	-3.481288	20	PASS
			NV	30	-20000	-3.481288	20	PASS
			NV	40	-20000	-3.481288	20	PASS
			NV	50	-20000	-3.481288	20	PASS
		5785	NV	-30	-20000	-3.457217	20	PASS
			NV	-20	-20000	-3.457217	20	PASS
			NV	-10	-20000	-3.457217	20	PASS





			NV	0	-20000	-3.457217	20	PASS
			NV	10	-20000	-3.457217	20	PASS
			NV	20	-20000	-3.457217	20	PASS
			NV	30	-20000	-3.457217	20	PASS
			NV	40	-20000	-3.457217	20	PASS
			NV	50	-20000	-3.457217	20	PASS
		5825	NV	-30	-20000	-3.433476	20	PASS
			NV	-20	-20000	-3.433476	20	PASS
			NV	-10	-20000	-3.433476	20	PASS
			NV	0	-20000	-3.433476	20	PASS
			NV	10	-20000	-3.433476	20	PASS
			NV	20	-20000	-3.433476	20	PASS
			NV	30	-20000	-3.433476	20	PASS
			NV	40	-20000	-3.433476	20	PASS
			NV	50	-20000	-3.433476	20	PASS
11AC40S ISO	Ant	5755	NV	-30	-23000	-3.996525	20	PASS
			NV	-20	-23000	-3.996525	20	PASS
			NV	-10	-23000	-3.996525	20	PASS
			NV	0	-23000	-3.996525	20	PASS
			NV	10	-23000	-3.996525	20	PASS
			NV	20	-23000	-3.996525	20	PASS
			NV	30	-23000	-3.996525	20	PASS
			NV	40	-23000	-3.996525	20	PASS
			NV	50	-23000	-3.996525	20	PASS
		5795	NV	-30	-24000	-4.141501	20	PASS
			NV	-20	-24000	-4.141501	20	PASS
			NV	-10	-24000	-4.141501	20	PASS
			NV	0	-24000	-4.141501	20	PASS
			NV	10	-24000	-4.141501	20	PASS
			NV	20	-24000	-4.141501	20	PASS
			NV	30	-24000	-4.141501	20	PASS
			NV	40	-24000	-4.141501	20	PASS
			NV	50	-24000	-4.141501	20	PASS
11AC80S ISO	Ant	5775	NV	-30	-24000	-4.155844	20	PASS
			NV	-20	-24000	-4.155844	20	PASS
			NV	-10	-24000	-4.155844	20	PASS
			NV	0	-24000	-4.155844	20	PASS
			NV	10	-24000	-4.155844	20	PASS
			NV	20	-24000	-4.155844	20	PASS
			NV	30	-24000	-4.155844	20	PASS



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			NV	40	-24000	-4.155844	20	PASS
			NV	50	-24000	-4.155844	20	PASS





E.6 Duty Cycle

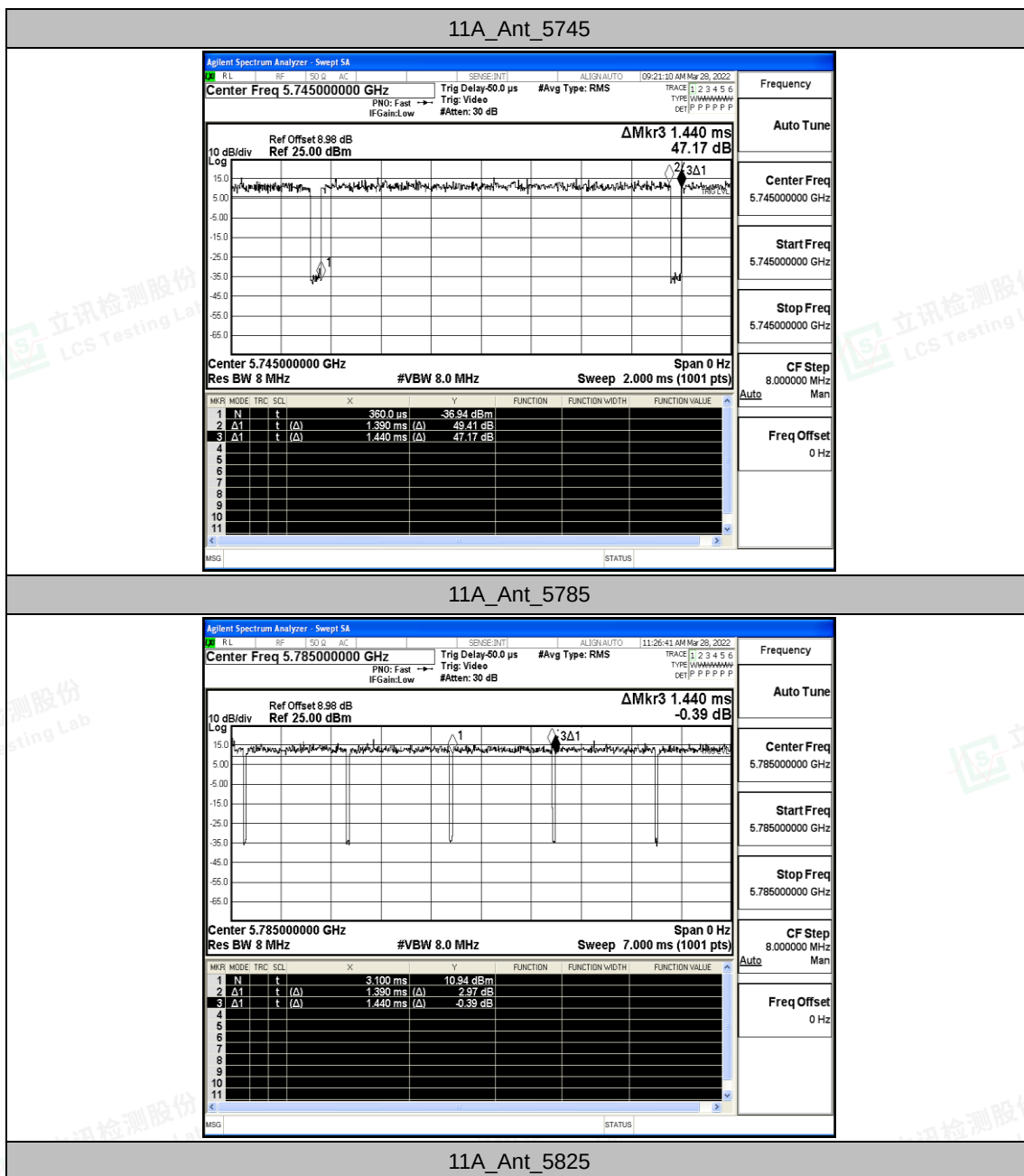
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T (Hz)	Limit	Verdict
11A	Ant	5745	1.39	1.44	96.53	719.42	---	---
		5785	1.39	1.44	96.53	719.42	---	---
		5825	1.39	1.44	96.53	719.42	---	---
11N20SISO	Ant	5745	1.30	1.35	96.30	769.23	---	---
		5785	1.30	1.35	96.30	769.23	---	---
		5825	1.30	1.35	96.30	769.23	---	---
11N40SISO	Ant	5755	0.64	0.69	92.75	1562.50	---	---
		5795	0.65	0.69	94.20	1538.46	---	---
11AC20SISO	Ant	5745	1.31	1.36	96.32	763.36	---	---
		5785	1.32	1.36	97.06	757.58	---	---
		5825	1.31	1.36	96.32	763.36	---	---
11AC40SISO	Ant	5755	0.65	0.70	92.86	1538.46	---	---
		5795	0.66	0.70	94.29	1515.15	---	---
11AC80SISO	Ant	5775	0.33	0.37	89.19	3030.30	---	---





Test Graphs

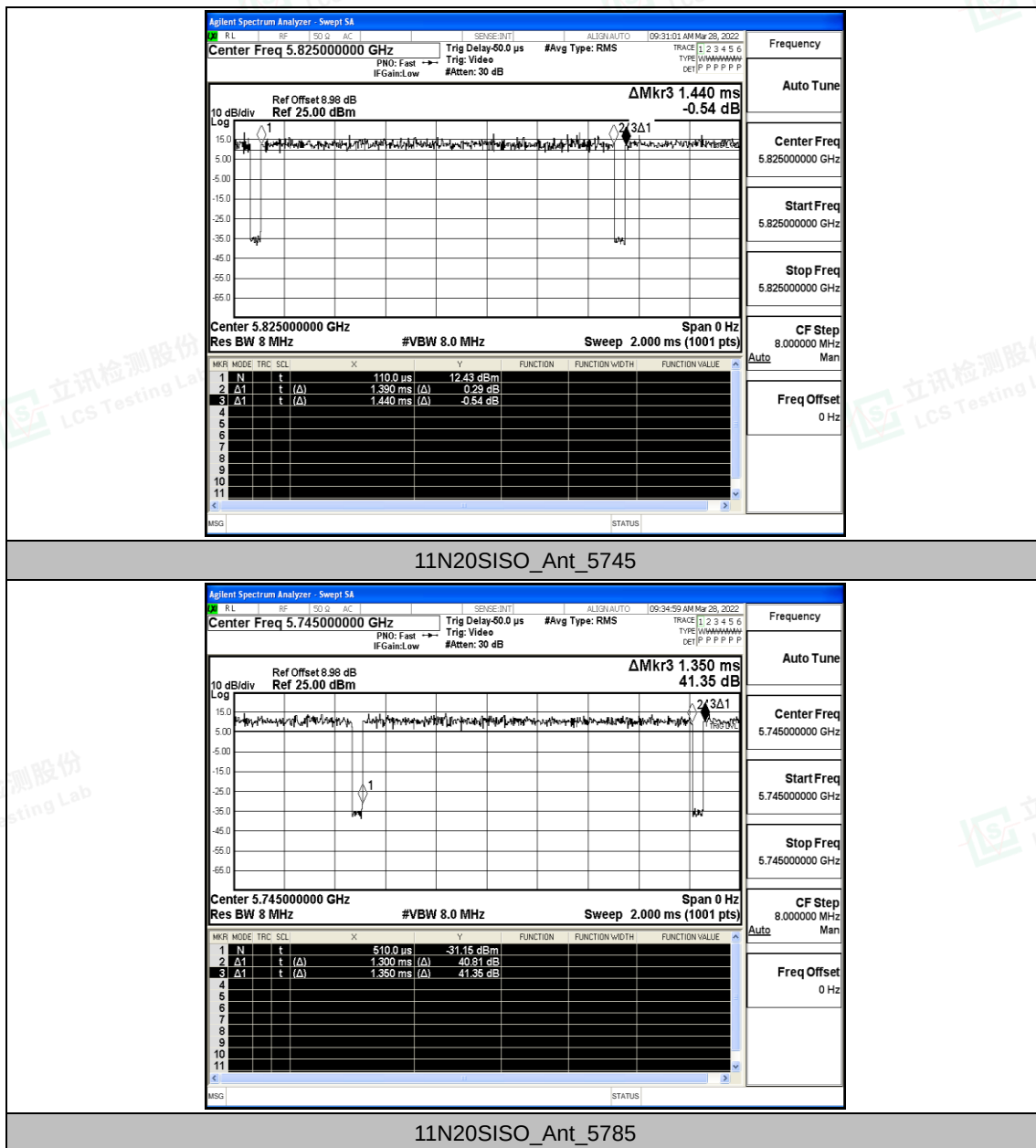


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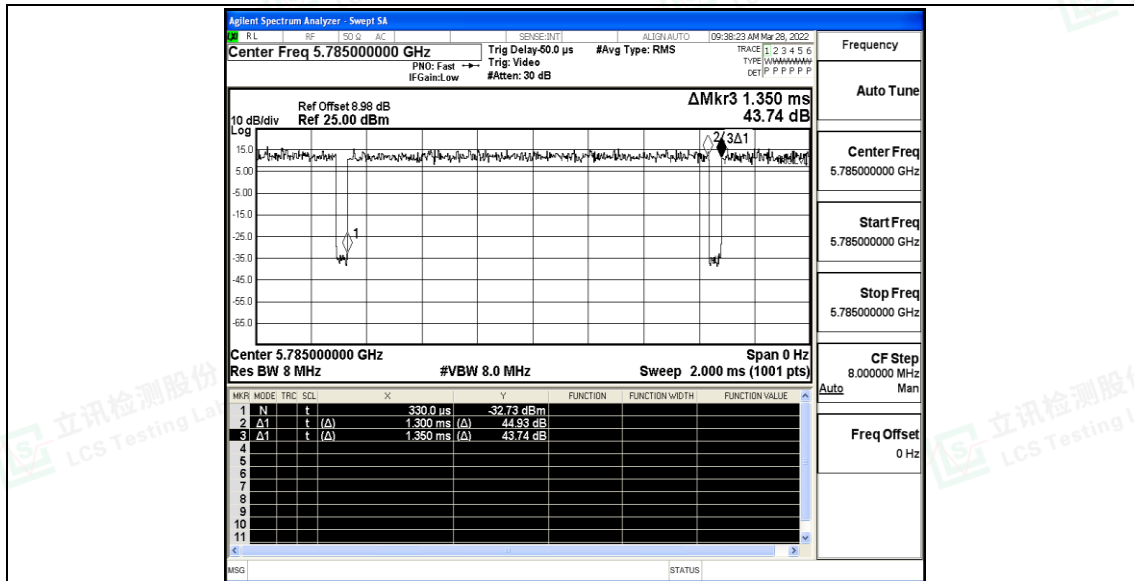


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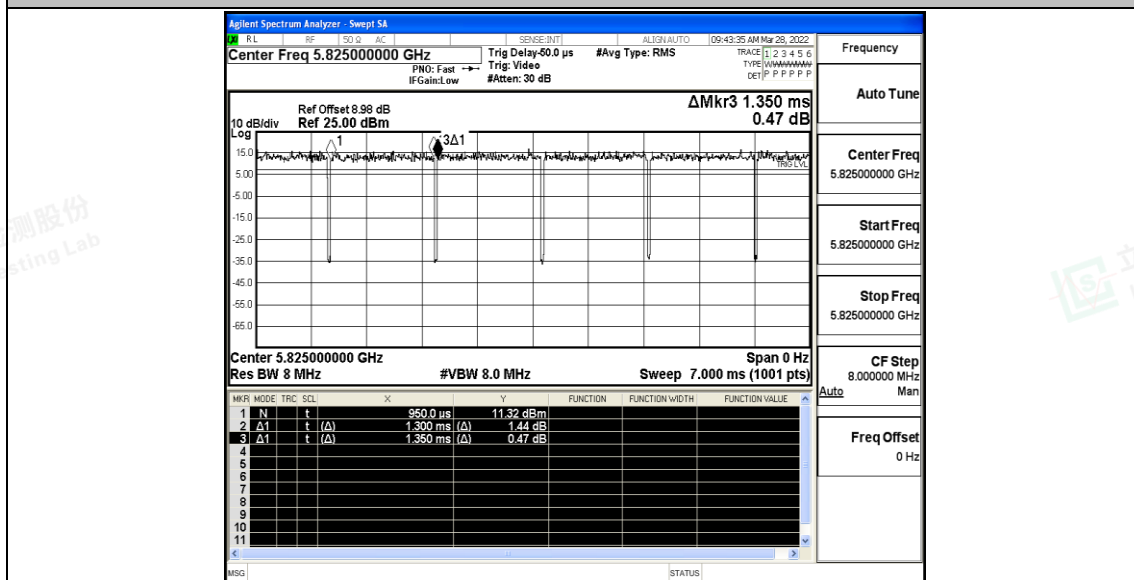
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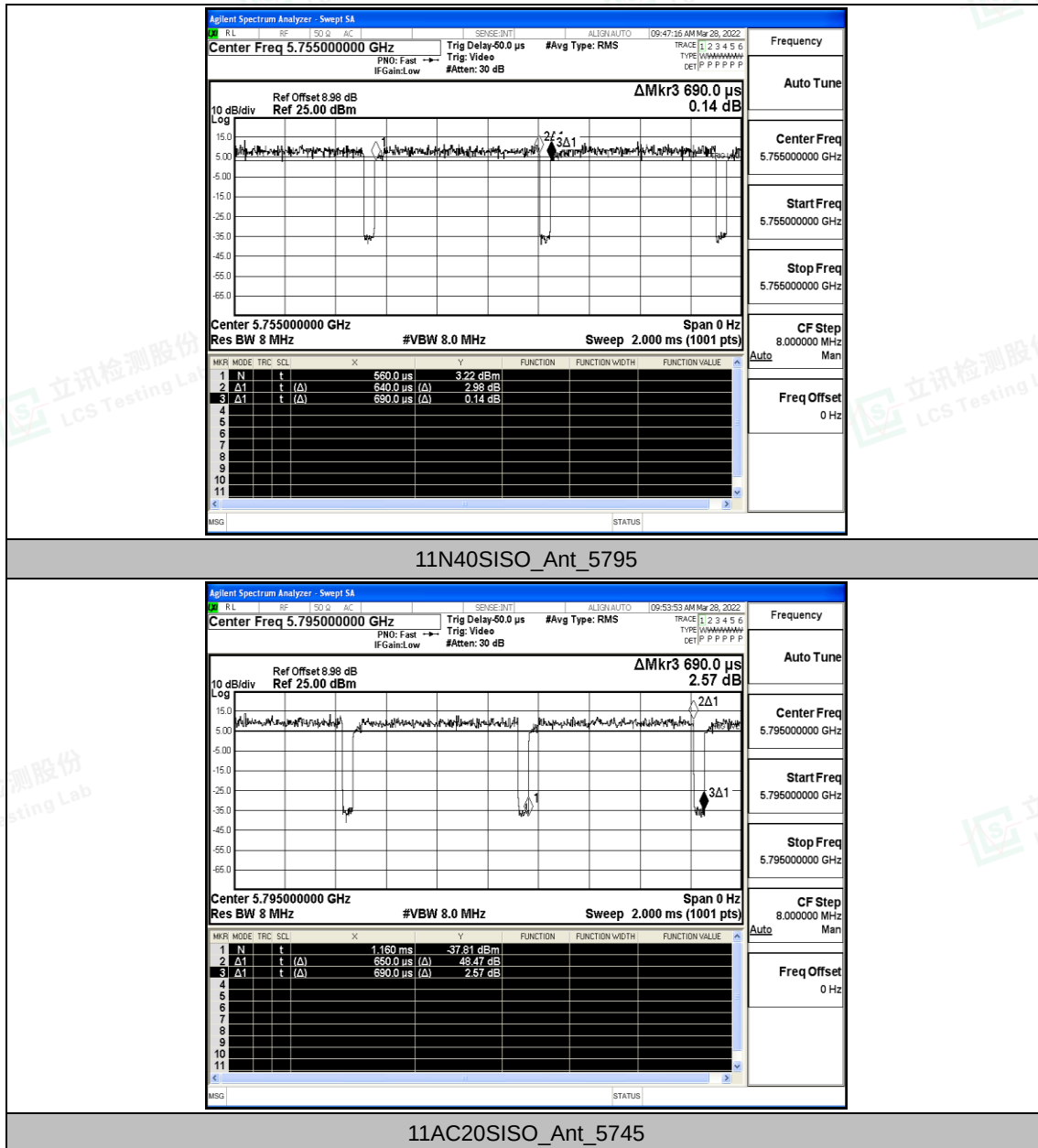


11N20SISO_Ant_5825



11N40SISO_Ant_5755



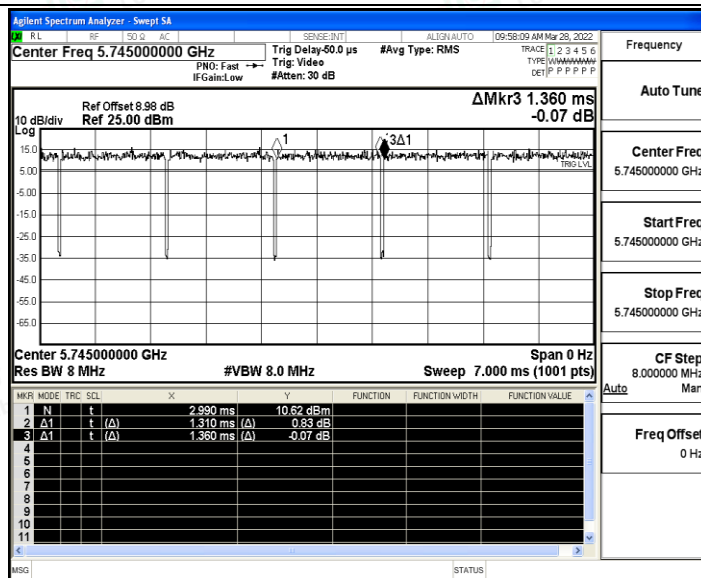


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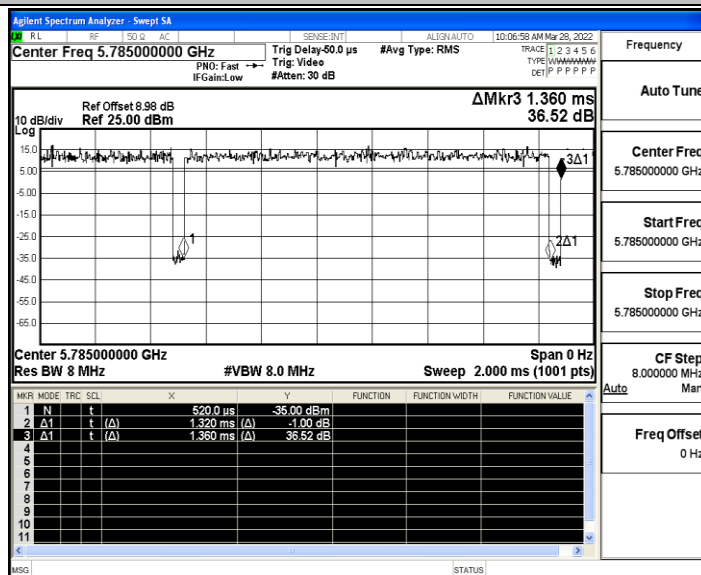
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11AC20SISO_Ant_5785



11AC20SISO_Ant_5825

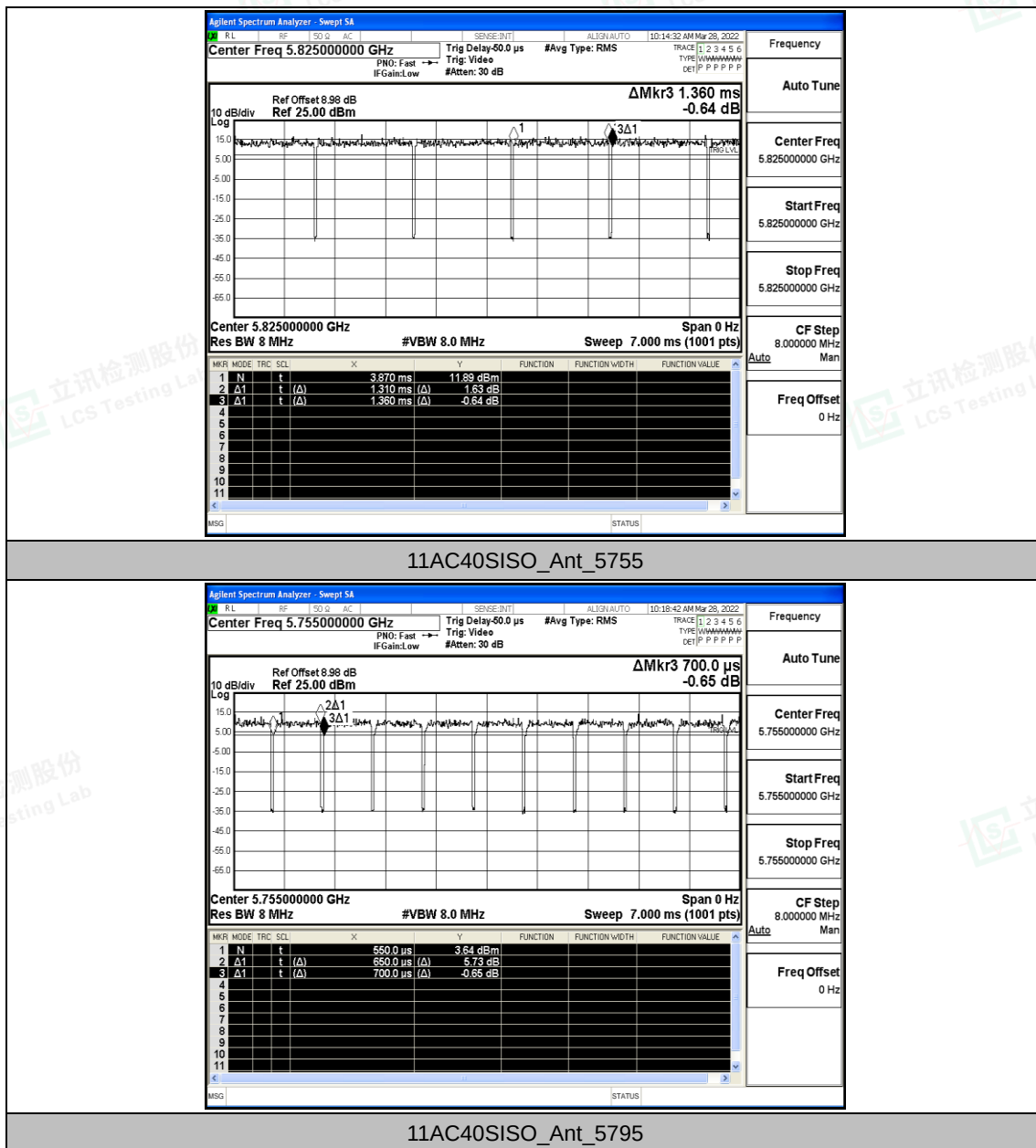


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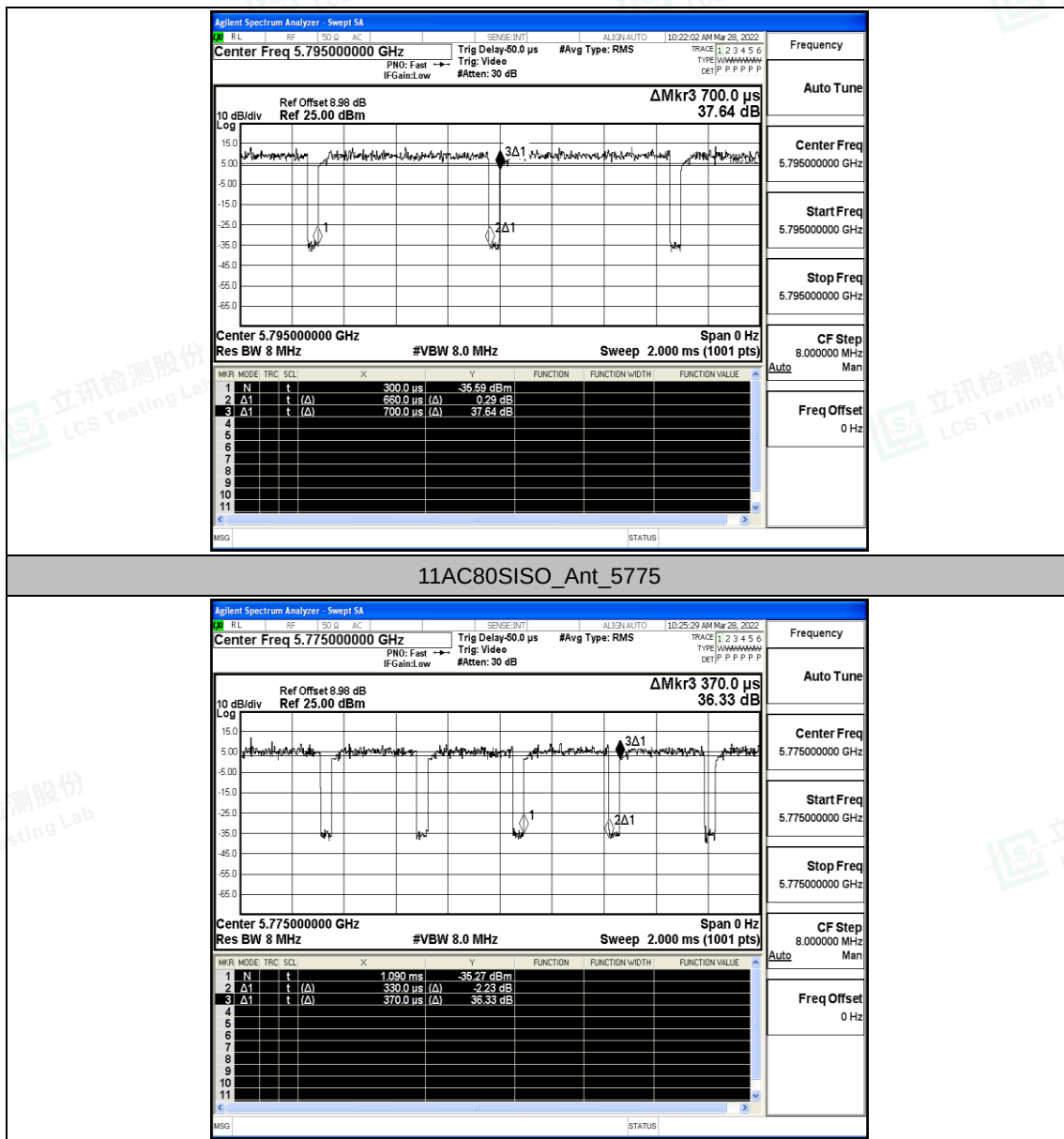


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