



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: AOSU IndoorCam P1

Test Model: C2E2BH11

Environmental Conditions

Temperature:	24.1℃
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan





E.1 Min emission bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	15.040	5737.480	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
11N20SISO	Ant	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.280	5817.440	5832.720	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

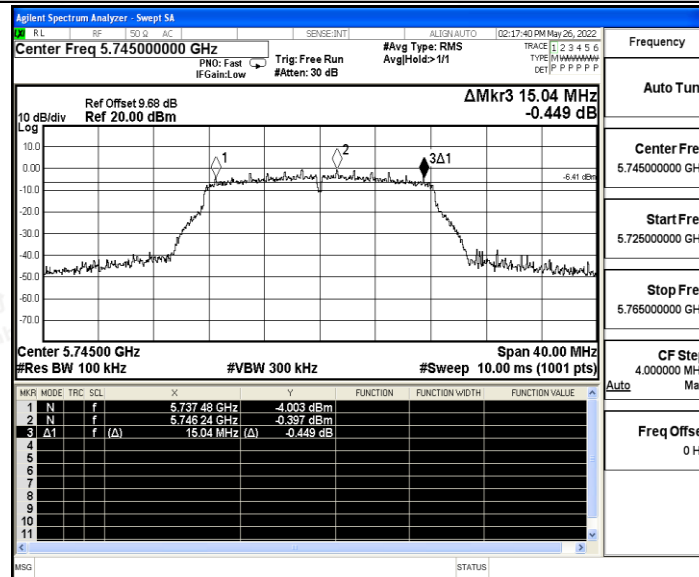


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

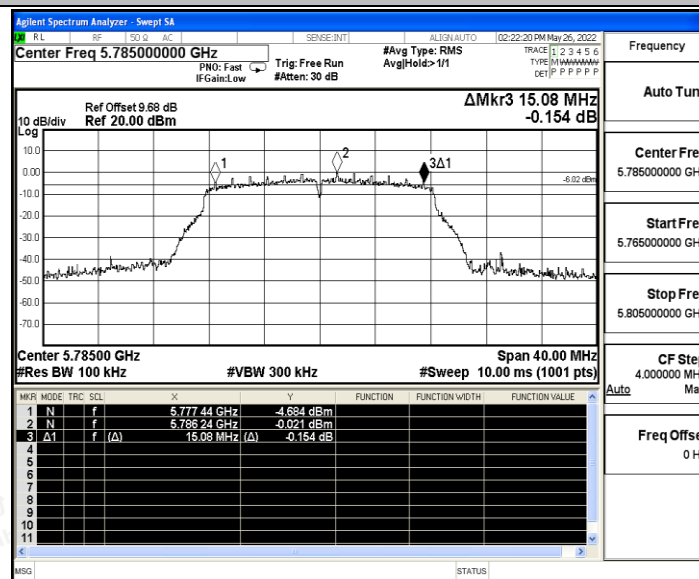


Test Graphs

11A_Ant_5745

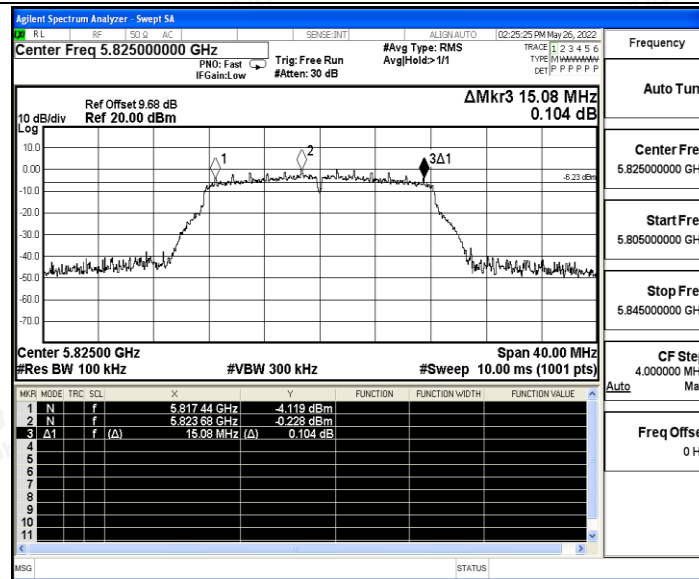


11A_Ant_5785

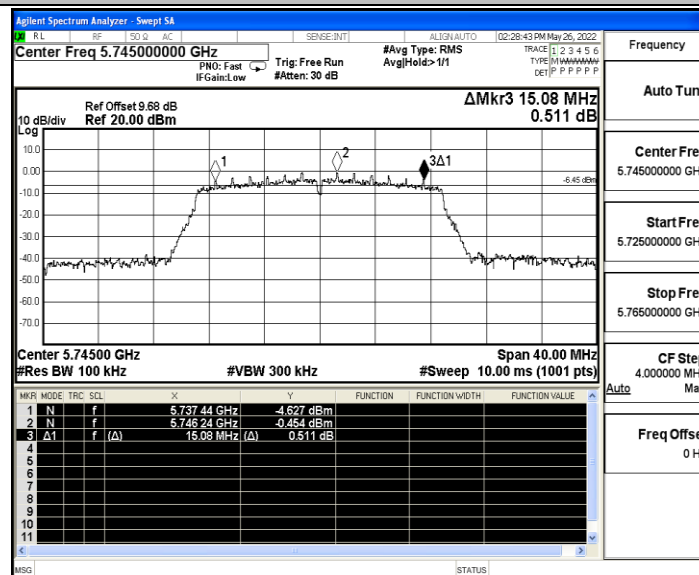


11A_Ant_5825



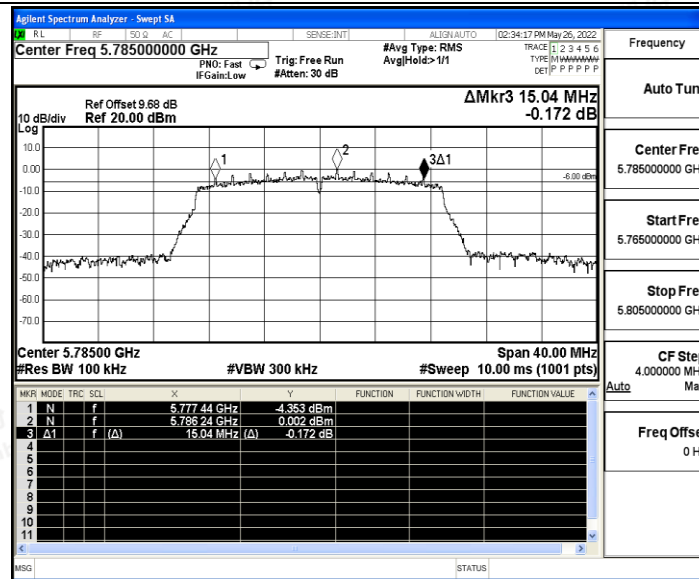


11N20SISO_Ant_5745

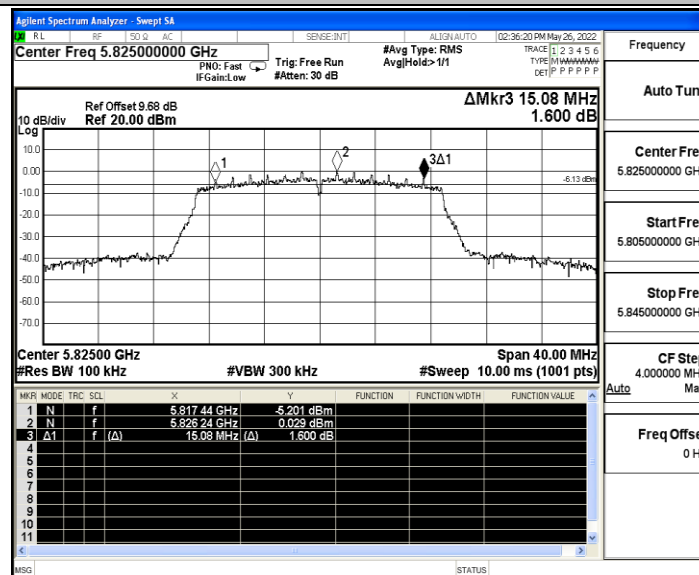


11N20SISO_Ant_5785



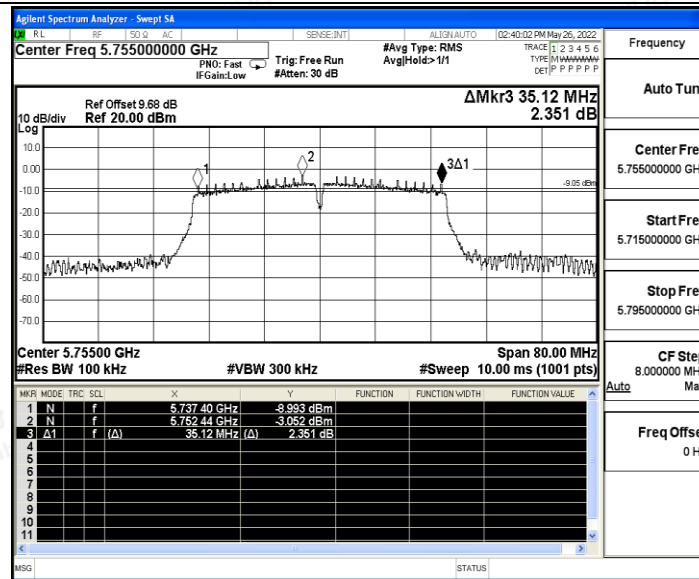


11N20SISO_Ant_5825

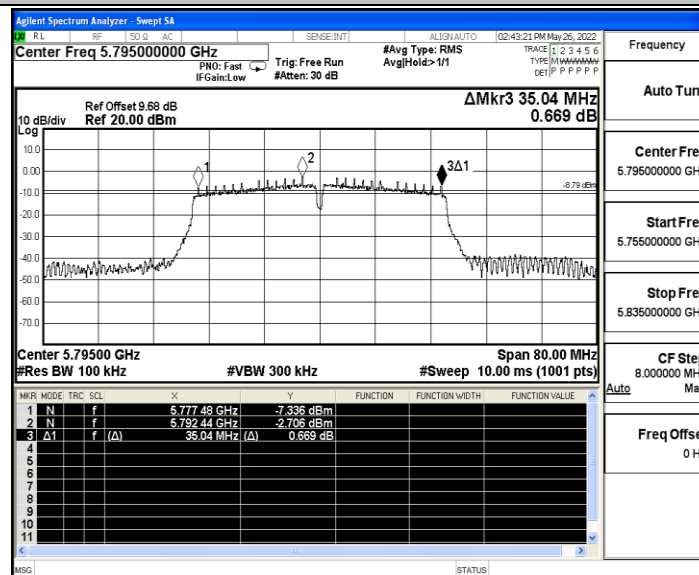


11N40SISO_Ant_5755



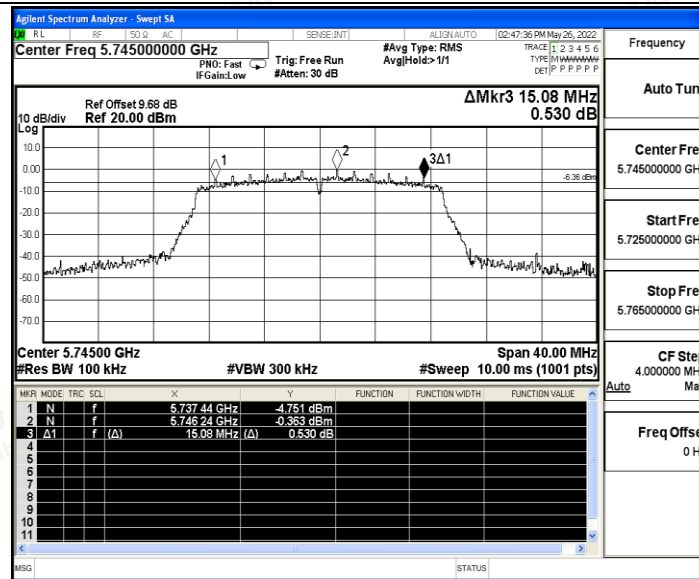


11N40SISO_Ant_5795

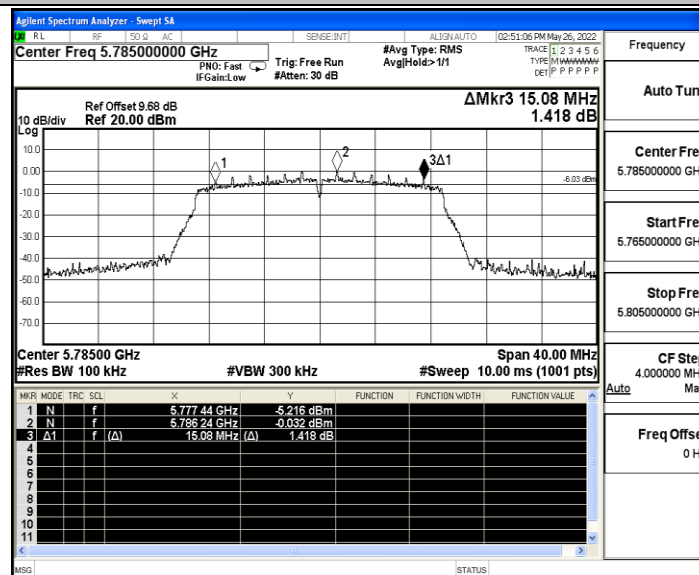


11AC20SISO_Ant_5745



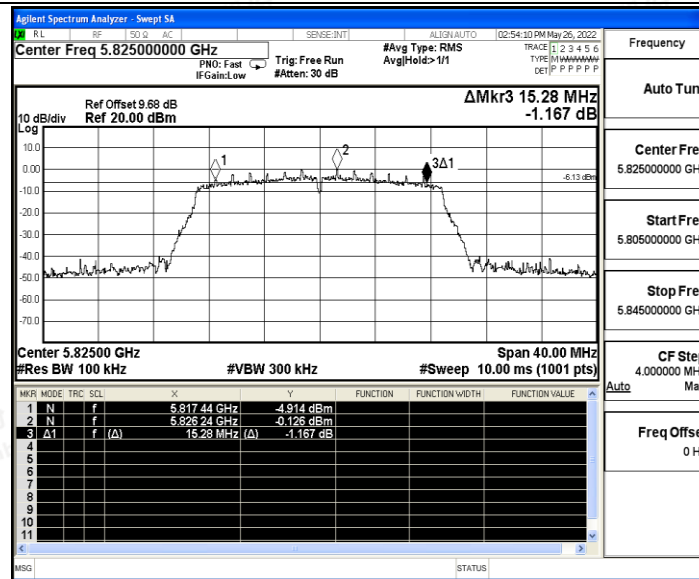


11AC20SISO_Ant_5785

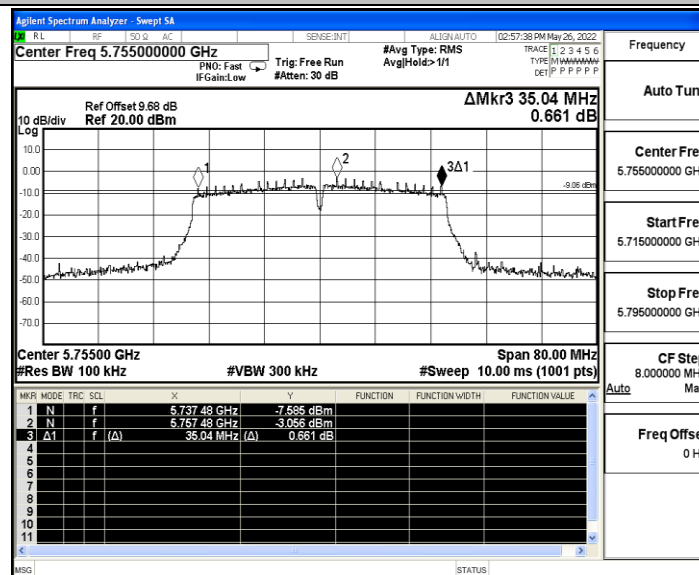


11AC20SISO_Ant_5825





11AC40SISO_Ant_5755



11AC40SISO_Ant_5795







E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5745	10.26	≤30.00	PASS
		5785	10.60	≤30.00	PASS
		5825	10.66	≤30.00	PASS
11N20SISO	Ant	5745	10.03	≤30.00	PASS
		5785	10.39	≤30.00	PASS
		5825	10.50	≤30.00	PASS
11N40SISO	Ant	5755	10.18	≤30.00	PASS
		5795	10.42	≤30.00	PASS
11AC20SISO	Ant	5745	10.05	≤30.00	PASS
		5785	10.35	≤30.00	PASS
		5825	10.45	≤30.00	PASS
11AC40SISO	Ant	5755	10.12	≤30.00	PASS
		5795	10.39	≤30.00	PASS
11AC80SISO	Ant	5775	10.37	≤30.00	PASS

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



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant	5745	-2.9	≤30.00	PASS
		5785	-2.67	≤30.00	PASS
		5825	-2.65	≤30.00	PASS
11N20SISO	Ant	5745	-3.38	≤30.00	PASS
		5785	-2.99	≤30.00	PASS
		5825	-2.92	≤30.00	PASS
11N40SISO	Ant	5755	-6.17	≤30.00	PASS
		5795	-5.78	≤30.00	PASS
11AC20SISO	Ant	5745	-3.37	≤30.00	PASS
		5785	-3.03	≤30.00	PASS
		5825	-2.95	≤30.00	PASS
11AC40SISO	Ant	5755	-6.3	≤30.00	PASS
		5795	-5.94	≤30.00	PASS
11AC80SISO	Ant	5775	-9.21	≤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.

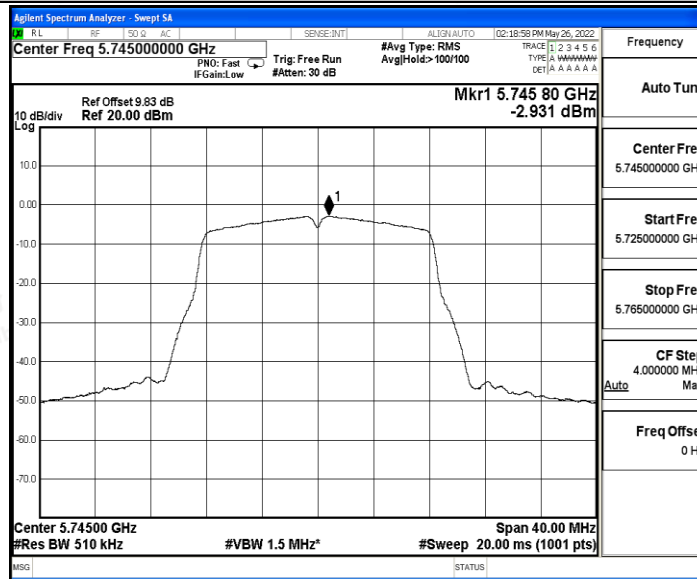


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

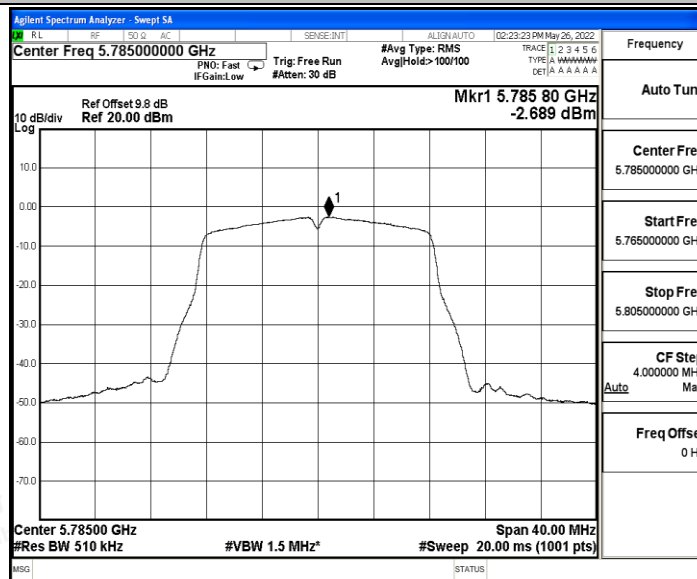


Test Graphs

11A_Ant_5745

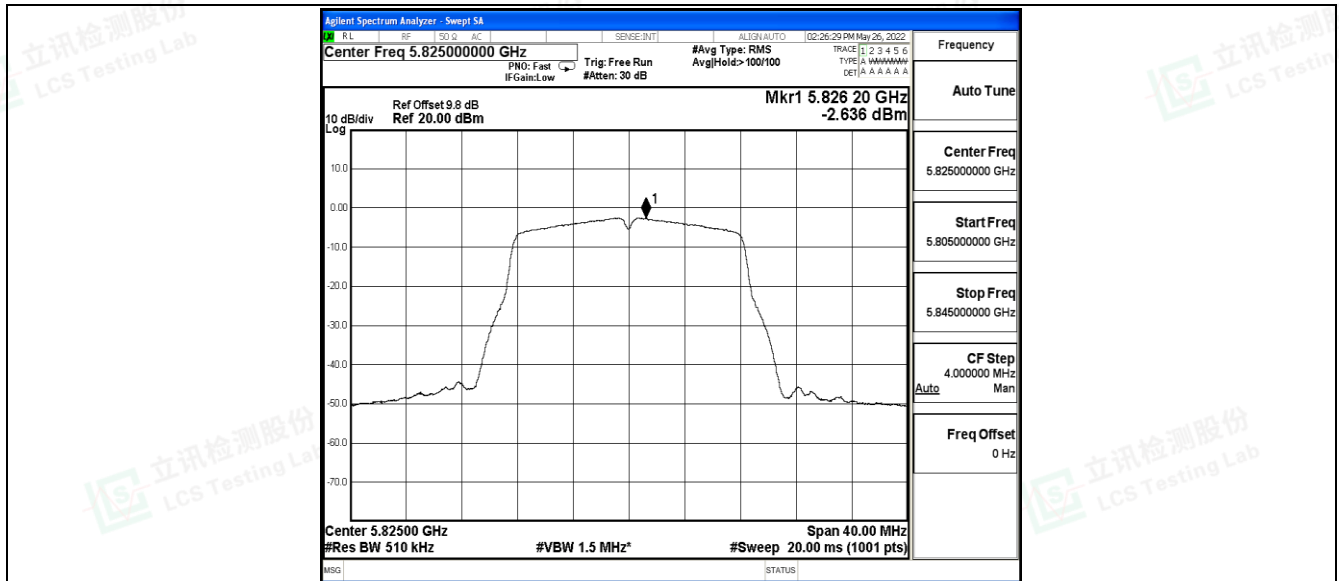


11A_Ant_5785

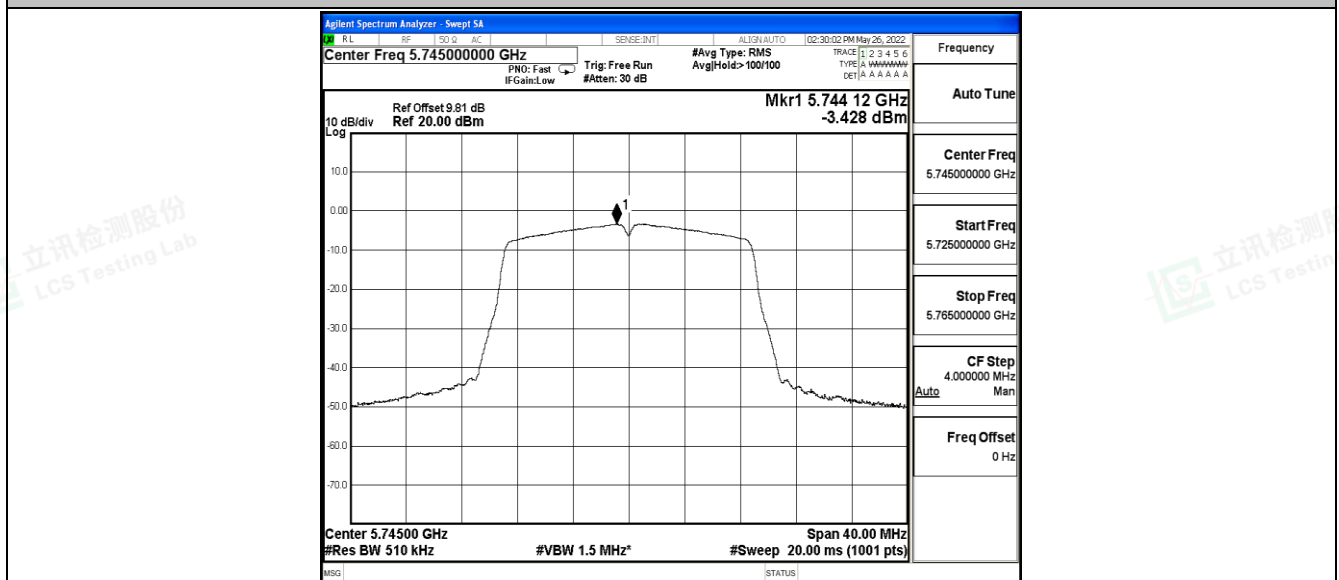


11A_Ant_5825



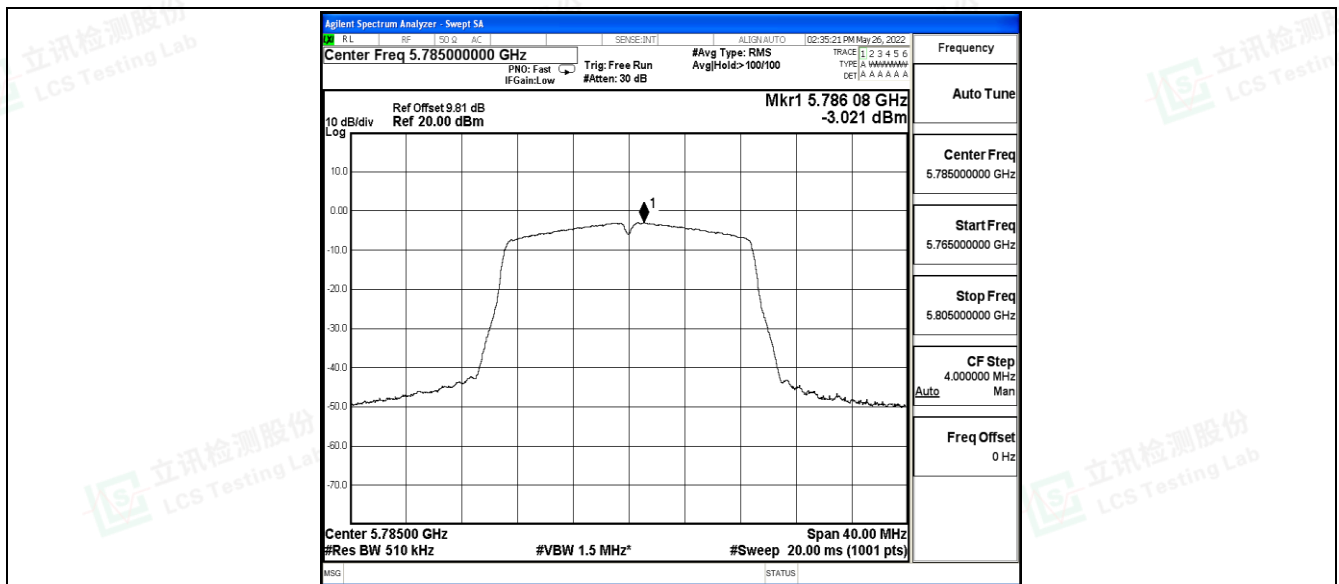


11N20SISO_Ant_5745

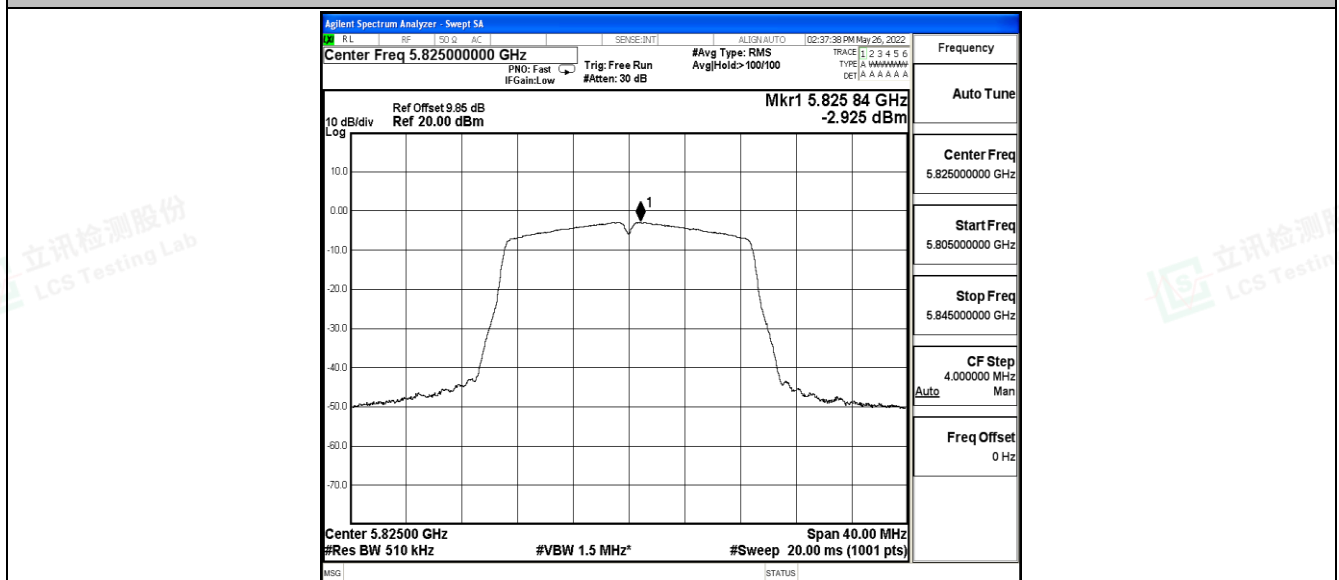


11N20SISO_Ant_5785



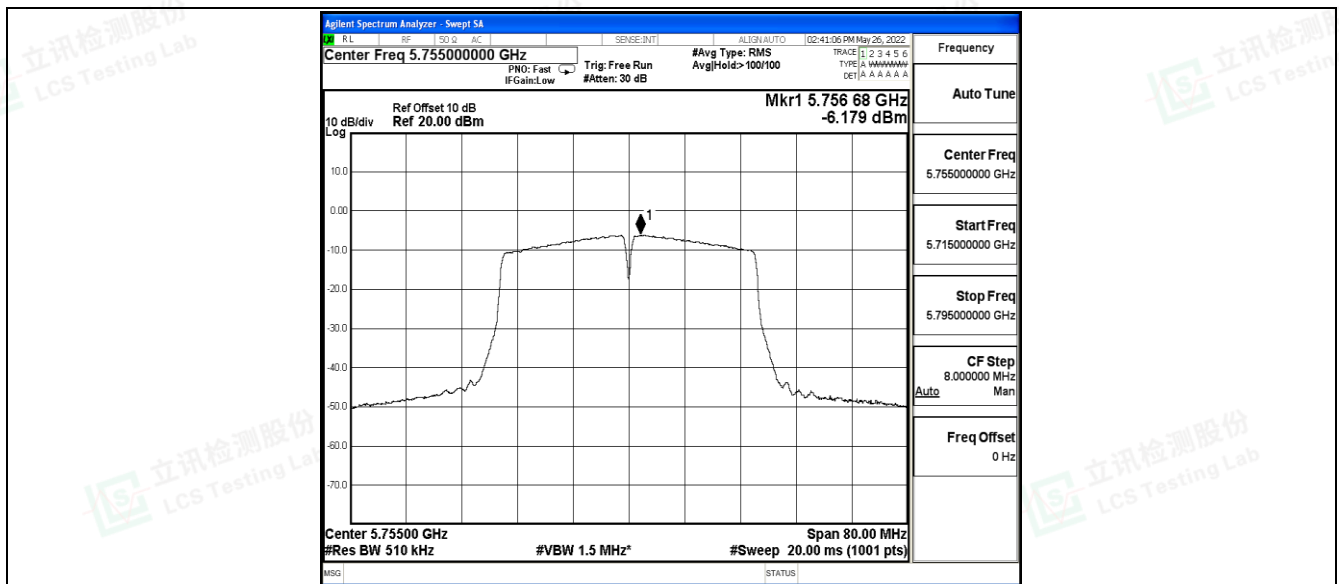


11N20SISO_Ant_5825

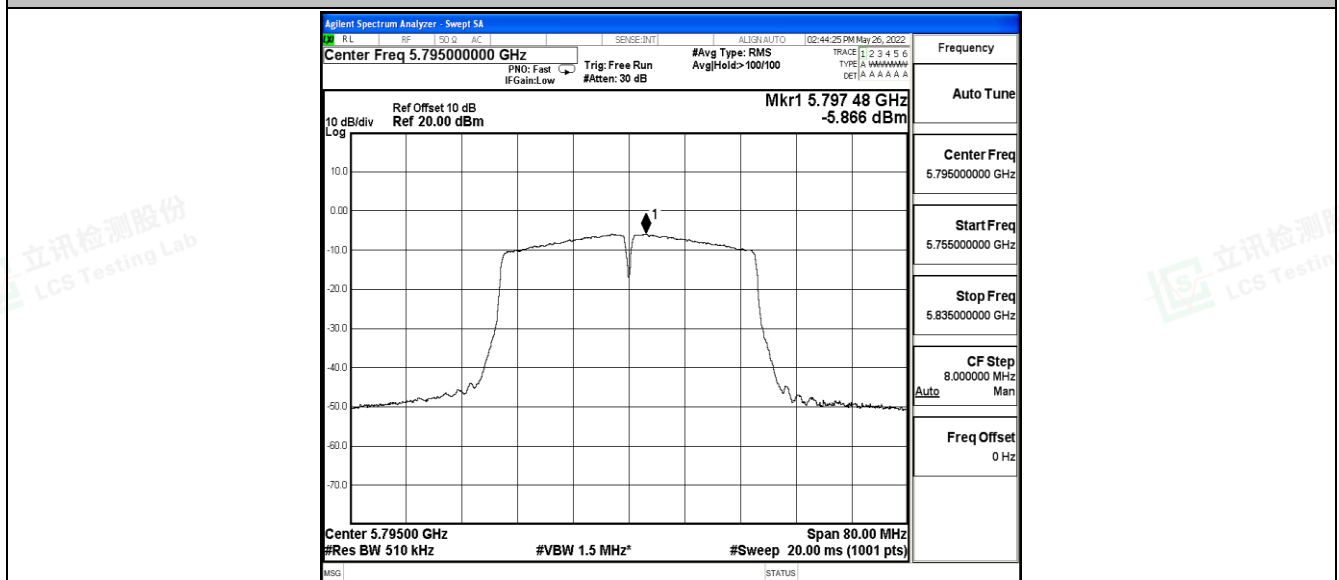


11N40SISO_Ant_5755



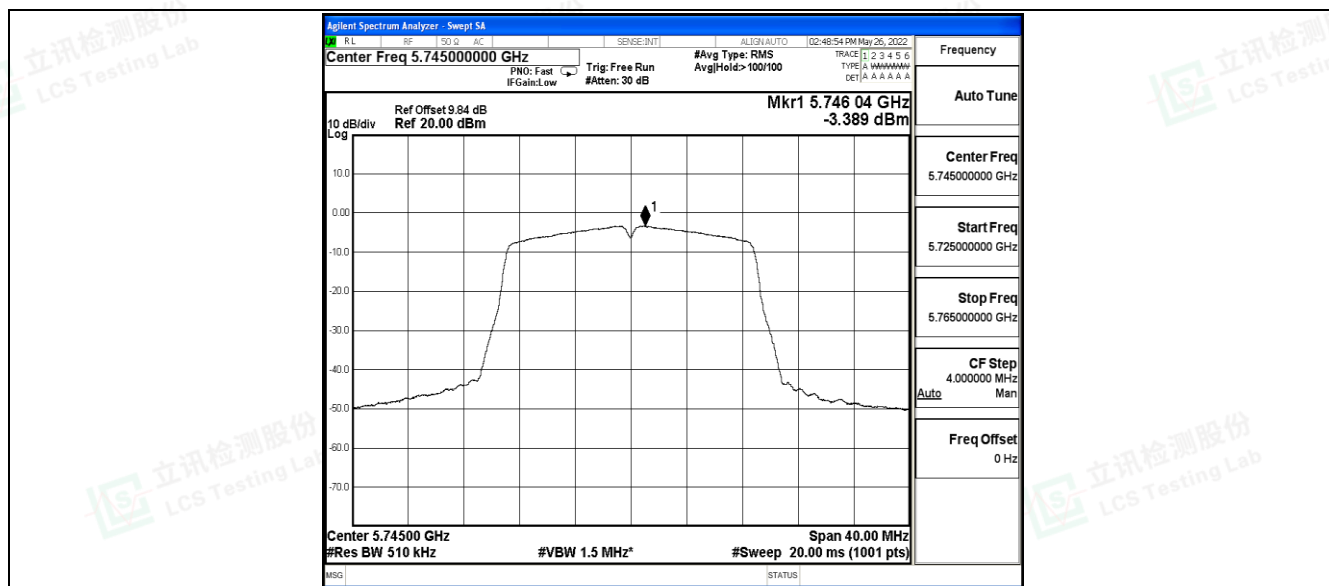


11N40SISO_Ant_5795

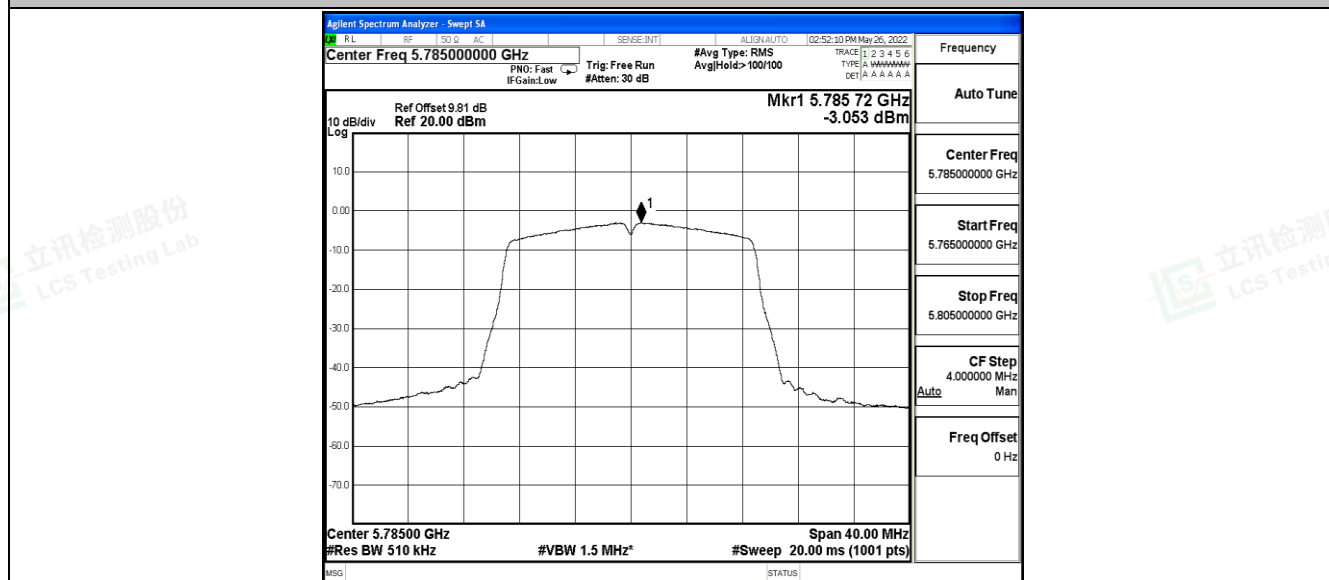


11AC20SISO_Ant_5745



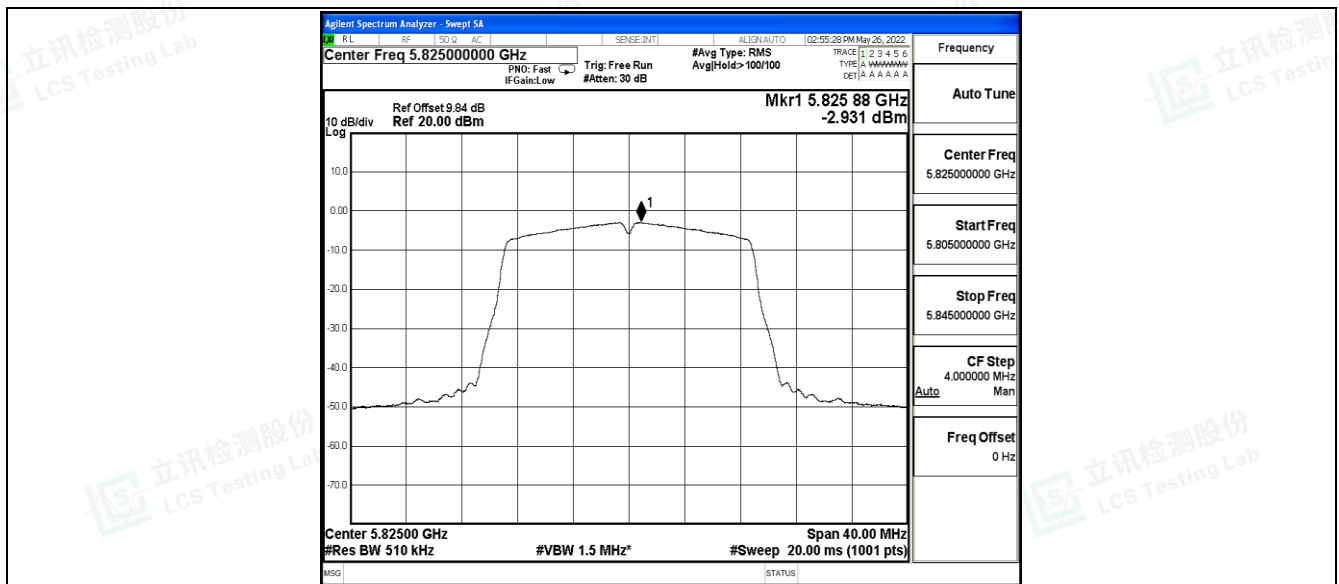


11AC20SISO_Ant_5785

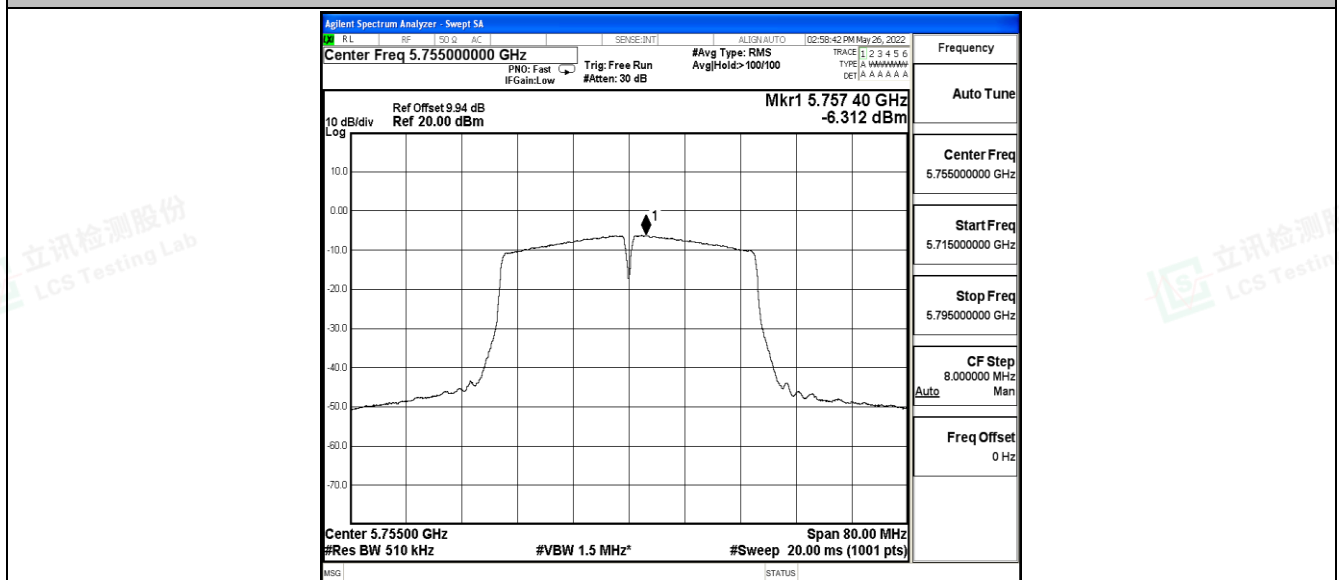


11AC20SISO_Ant_5825



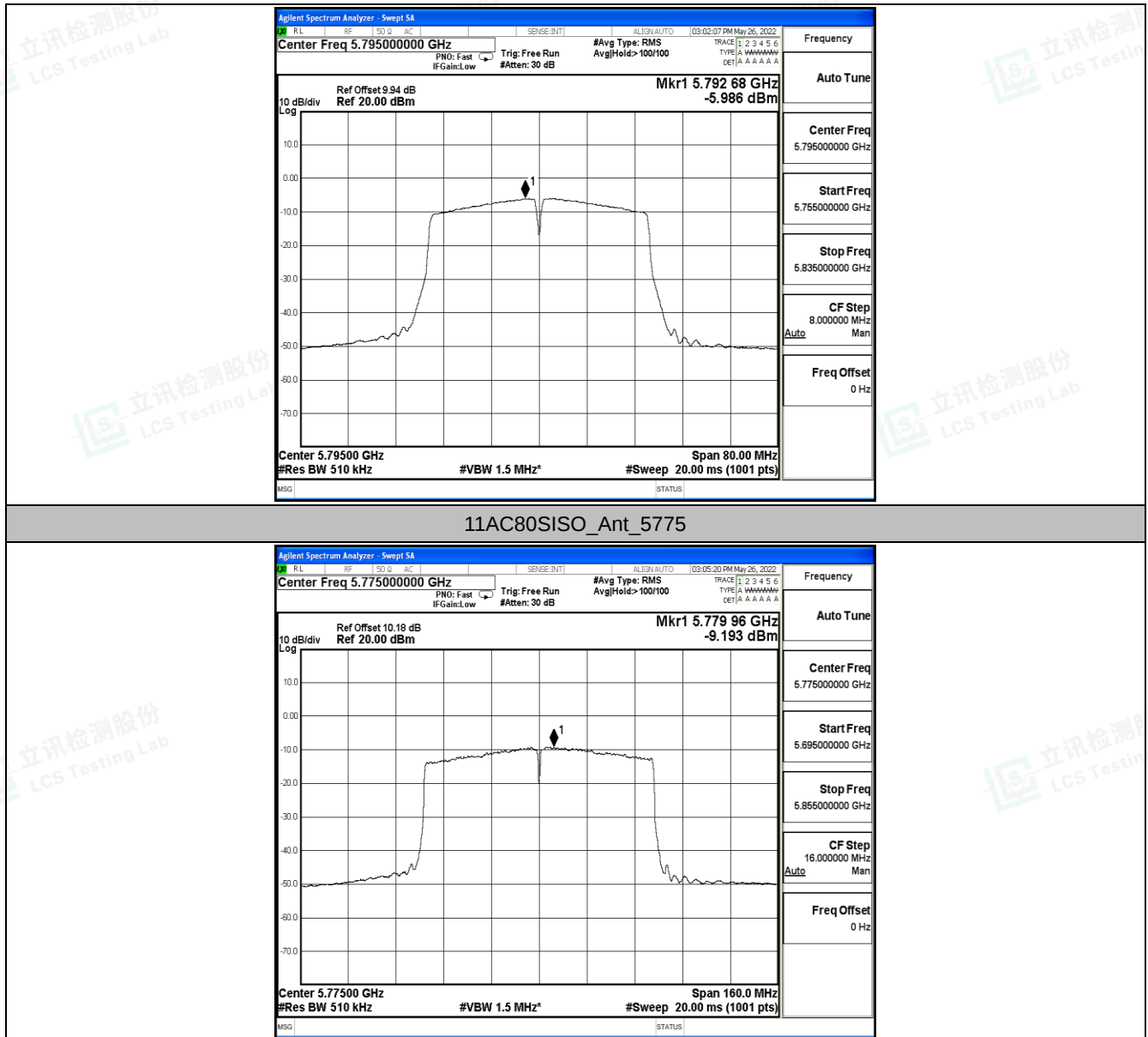


11AC40SISO_Ant_5755



11AC40SISO_Ant_5795







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	-37.445	≤-27.00	---	---	PASS
				Peak	5700.000	-38.24	≤10.00	---	---	PASS
				Peak	5720.000	-33.99	≤15.60	---	---	PASS
				Peak	5725.000	-28.78	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.036	≤15.60	---	---	PASS
				Peak	5855.000	-36.85	≤27.00	---	---	PASS
				Peak	5875.000	-38	≤15.60	---	---	PASS
				Peak	5925.000	-37.43	≤10.00	---	---	PASS
11N20SI SO	Ant	Low	5745	Peak	5650.000	-38.197	≤-27.00	---	---	PASS
				Peak	5700.000	-38.64	≤10.00	---	---	PASS
				Peak	5720.000	-31.96	≤15.60	---	---	PASS
				Peak	5725.000	-34.65	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-31.145	≤15.60	---	---	PASS
				Peak	5855.000	-36.23	≤27.00	---	---	PASS
				Peak	5875.000	-38.06	≤15.60	---	---	PASS
				Peak	5925.000	-38.7	≤10.00	---	---	PASS
11N40SI SO	Ant	Low	5755	Peak	5650.000	-38.495	≤-27.00	---	---	PASS
				Peak	5700.000	-34.92	≤10.00	---	---	PASS
				Peak	5720.000	-28.09	≤15.60	---	---	PASS
				Peak	5725.000	-28.59	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-31.688	≤15.60	---	---	PASS
				Peak	5855.000	-36.7	≤27.00	---	---	PASS
				Peak	5875.000	-36.99	≤15.60	---	---	PASS
				Peak	5925.000	-38.06	≤10.00	---	---	PASS
11AC20S ISO	Ant	Low	5745	Peak	5650.000	-38.331	≤-27.00	---	---	PASS
				Peak	5700.000	-38.37	≤10.00	---	---	PASS
				Peak	5720.000	-36.14	≤15.60	---	---	PASS
				Peak	5725.000	-29.88	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-37.143	≤15.60	---	---	PASS
				Peak	5855.000	-36.63	≤27.00	---	---	PASS
				Peak	5875.000	-37.42	≤15.60	---	---	PASS
				Peak	5925.000	-37.68	≤10.00	---	---	PASS
11AC40S ISO	Ant	Low	5755	Peak	5650.000	-38.055	≤-27.00	---	---	PASS
				Peak	5700.000	-37.83	≤10.00	---	---	PASS
				Peak	5720.000	-31.65	≤15.60	---	---	PASS





		High	5795	Peak	5725.000	-32.33	≤ 27.00	---	---	PASS
				Peak	5850.000	-36.758	≤ 15.60	---	---	PASS
				Peak	5855.000	-37.8	≤ 27.00	---	---	PASS
				Peak	5875.000	-37.49	≤ 15.60	---	---	PASS
				Peak	5925.000	-37.96	≤ 10.00	---	---	PASS
11AC80S ISO	Ant	Low	5775	Peak	5650.000	-38.856	≤ 27.00	---	---	PASS
				Peak	5700.000	-35.87	≤ 10.00	---	---	PASS
				Peak	5720.000	-31.65	≤ 15.60	---	---	PASS
				Peak	5725.000	-31.76	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-31.811	≤ 15.60	---	---	PASS
				Peak	5855.000	-30.36	≤ 27.00	---	---	PASS
				Peak	5875.000	-36.29	≤ 15.60	---	---	PASS
				Peak	5925.000	-38.17	≤ 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.

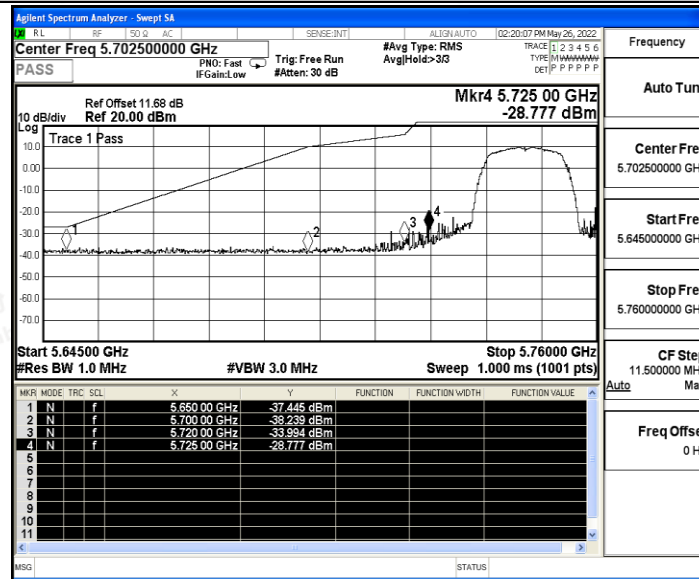


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

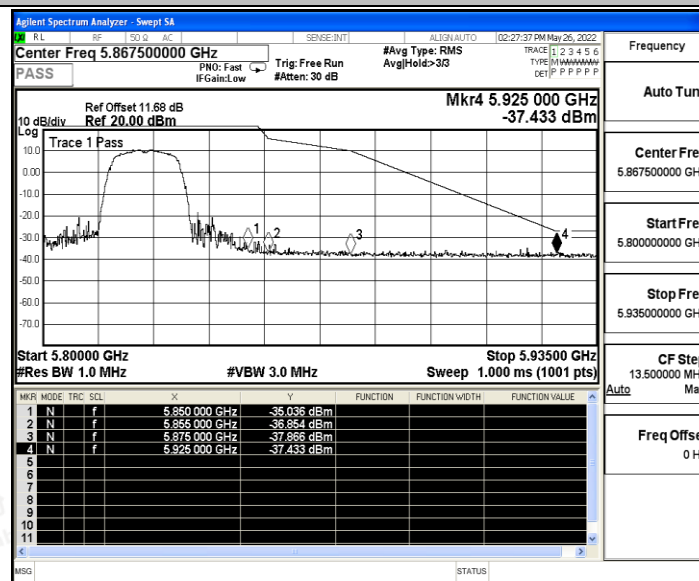


Test Graphs

11A_Ant_Low_5745_Peak

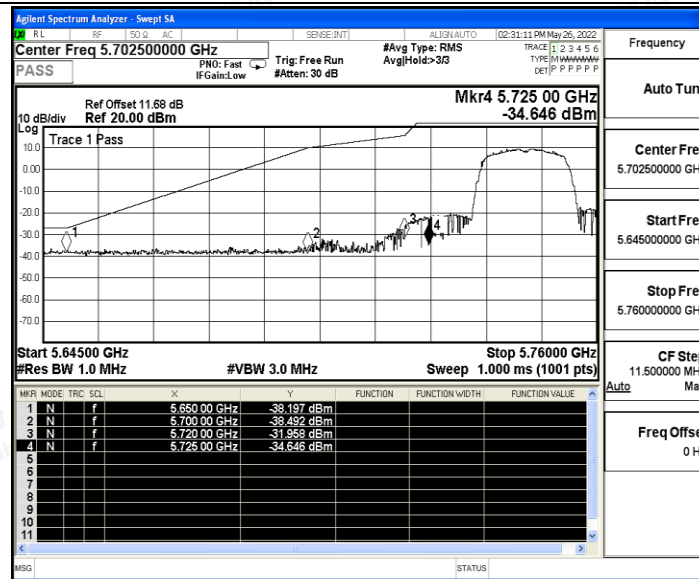


11A_Ant_High_5825_Peak

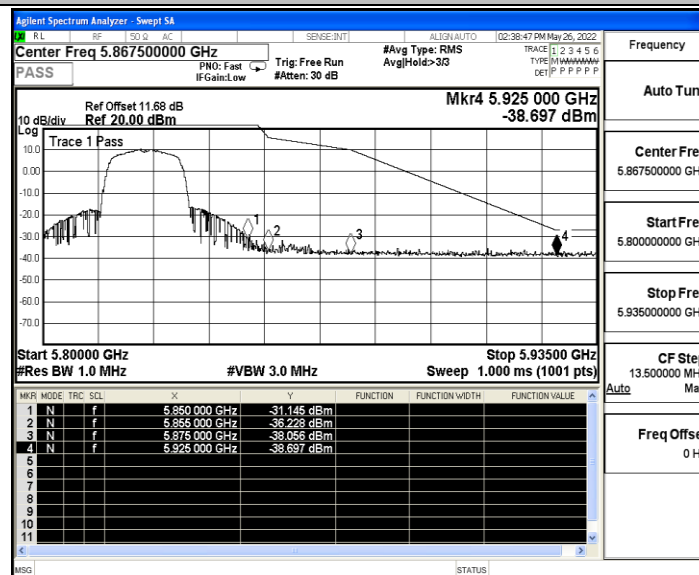


11N20SISO_Ant_Low_5745_Peak



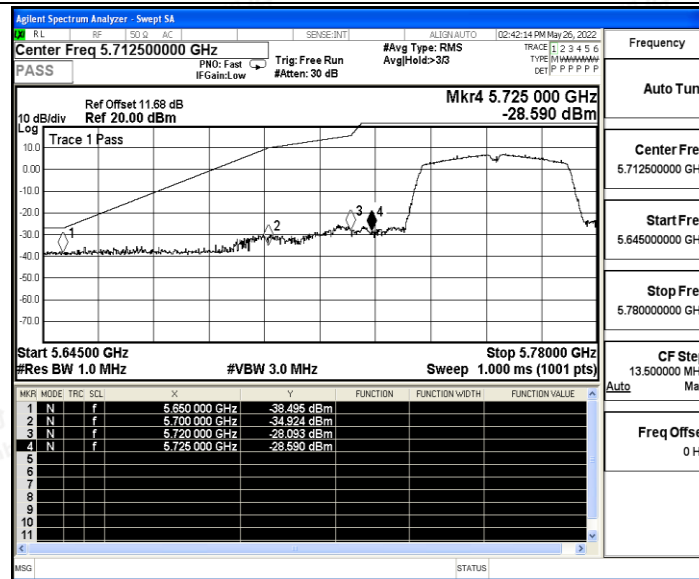


11N20SISO_Ant_High_5825_Peak

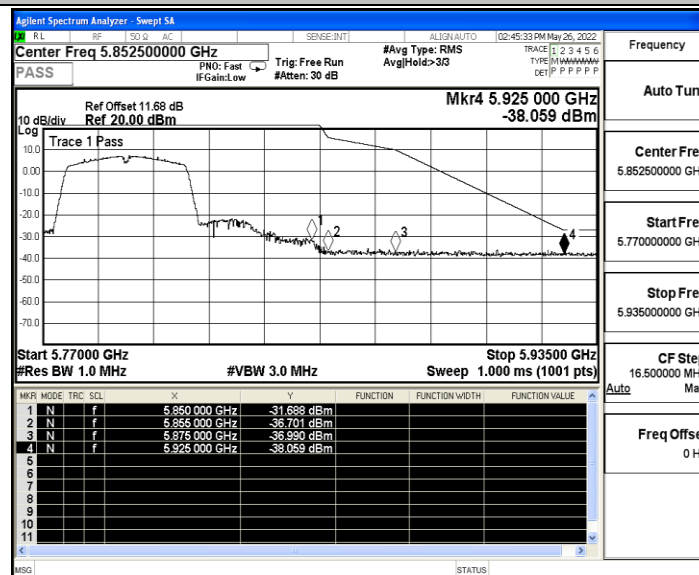


11N40SISO_Ant_Low_5755_Peak



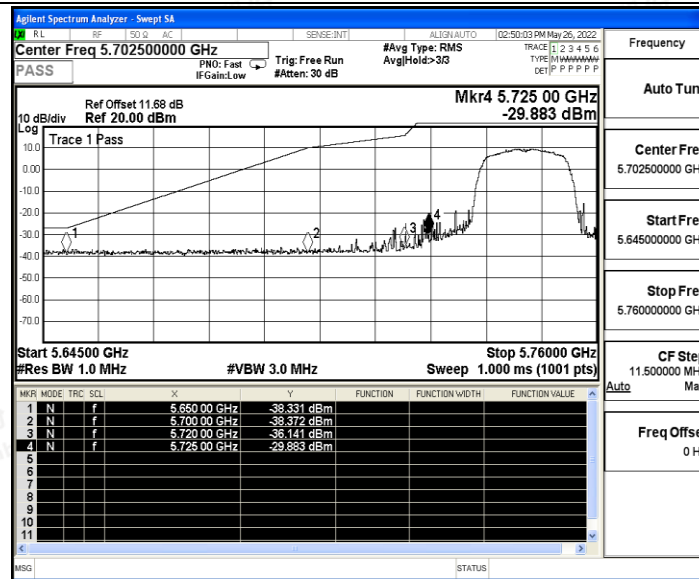


11N40SISO_Ant_High_5795_Peak

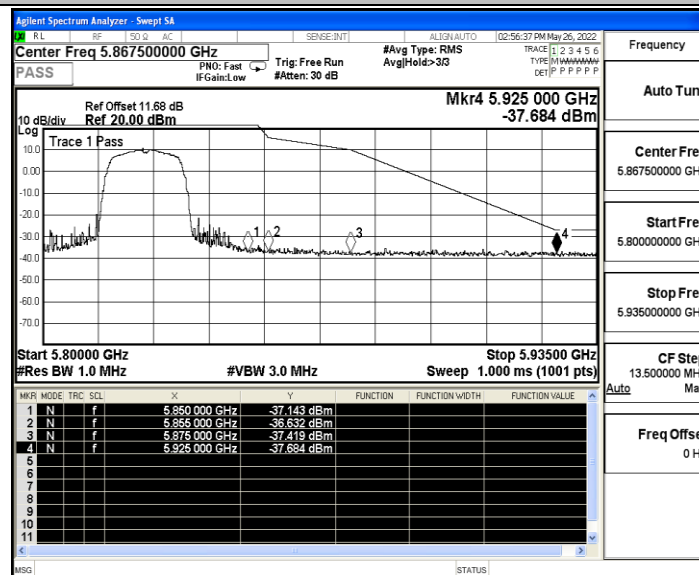


11AC20SISO_Ant_Low_5745_Peak



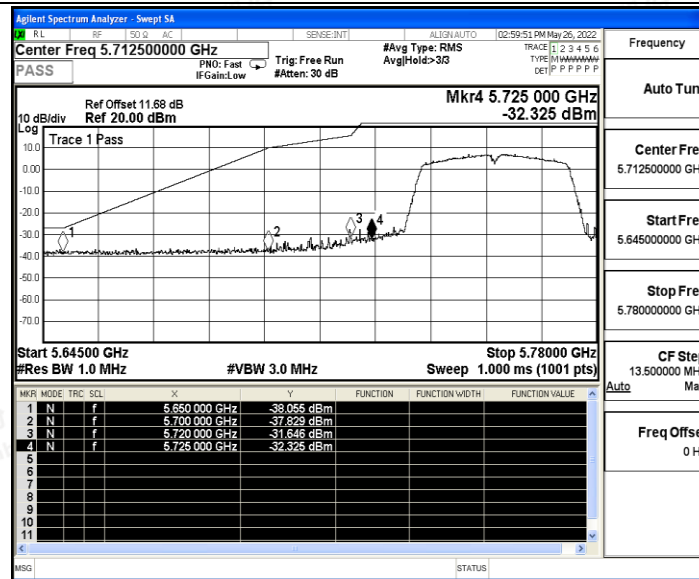


11AC20SISO_Ant_High_5825_Peak

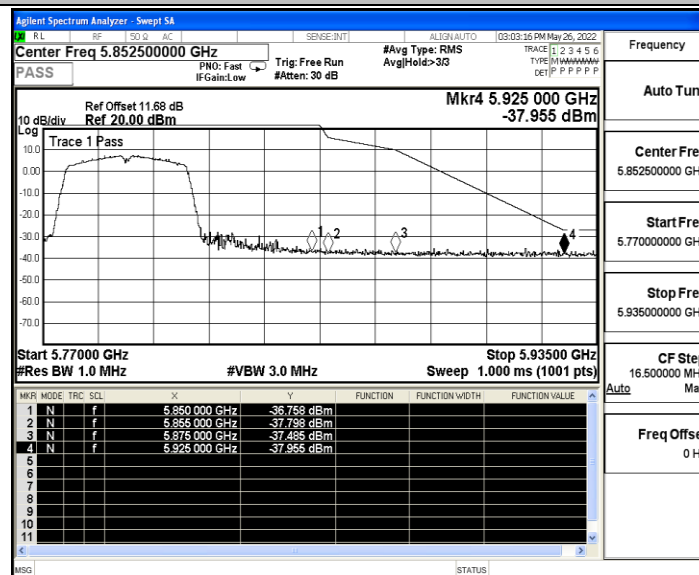


11AC40SISO_Ant_Low_5755_Peak



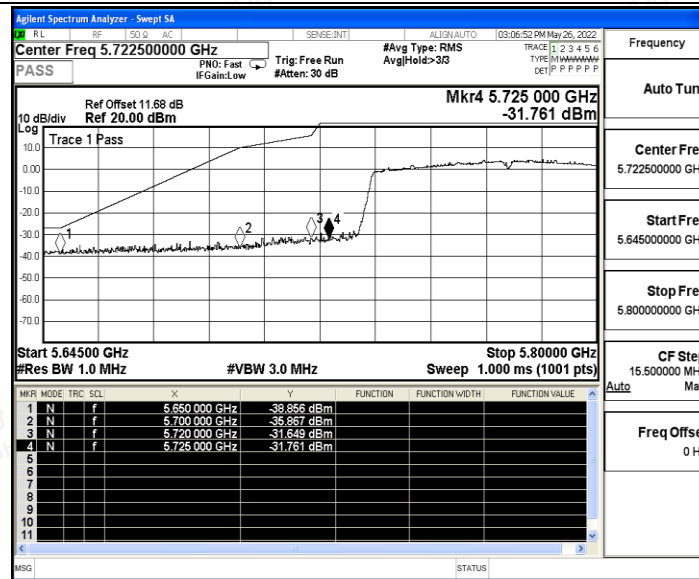


11AC40SISO_Ant_High_5795_Peak

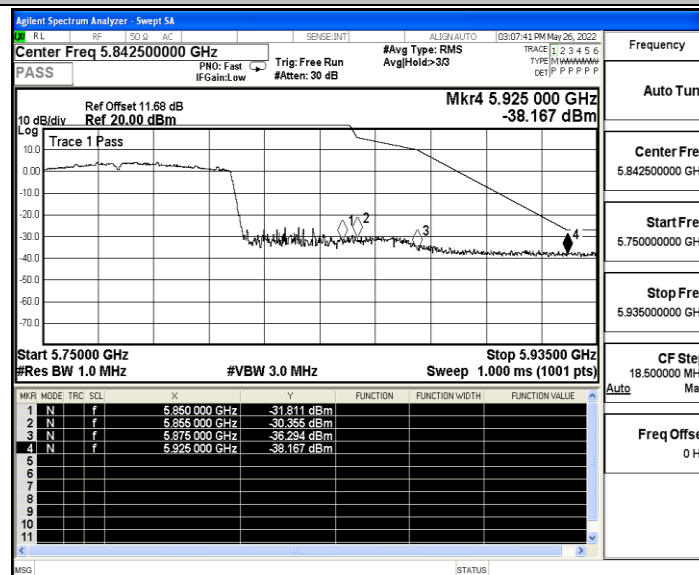


11AC80SISO_Ant_Low_5775_Peak





11AC80SISO_Ant_High_5775_Peak





E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5745	NV	NT	-22000	-3.829417	20	PASS
			LV	NT	-24000	-4.177546	20	PASS
			HV	NT	-25000	-4.35161	20	PASS
		5785	NV	NT	-27000	-4.667243	20	PASS
			LV	NT	-28000	-4.840104	20	PASS
			HV	NT	-28000	-4.840104	20	PASS
		5825	NV	NT	-28000	-4.806867	20	PASS
			LV	NT	-29000	-4.978541	20	PASS
			HV	NT	-29000	-4.978541	20	PASS
11AC40SIS O	Ant	5755	NV	NT	-27000	-4.691573	20	PASS
			LV	NT	-28000	-4.865334	20	PASS
			HV	NT	-28000	-4.865334	20	PASS
		5795	NV	NT	-29000	-5.004314	20	PASS
			LV	NT	-29000	-5.004314	20	PASS
			HV	NT	-29000	-5.004314	20	PASS
11AC80SIS O	Ant	5775	NV	NT	-28000	-4.848485	20	PASS
			LV	NT	-29000	-5.021645	20	PASS
			HV	NT	-29000	-5.021645	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5745	NV	-30	-26000	-4.525674	20	PASS
			NV	-20	-26000	-4.525674	20	PASS
			NV	-10	-27000	-4.699739	20	PASS
			NV	0	-27000	-4.699739	20	PASS
			NV	10	-27000	-4.699739	20	PASS
			NV	20	-27000	-4.699739	20	PASS
			NV	30	-27000	-4.699739	20	PASS
			NV	40	-28000	-4.873803	20	PASS
			NV	50	-28000	-4.873803	20	PASS
		5785	NV	-30	-28000	-4.840104	20	PASS
			NV	-20	-28000	-4.840104	20	PASS
			NV	-10	-28000	-4.840104	20	PASS





			NV	0	-29000	-5.012965	20	PASS
			NV	10	-28000	-4.840104	20	PASS
			NV	20	-29000	-5.012965	20	PASS
			NV	30	-28000	-4.840104	20	PASS
			NV	40	-29000	-5.012965	20	PASS
			NV	50	-29000	-5.012965	20	PASS
		5825	NV	-30	-29000	-4.978541	20	PASS
			NV	-20	-29000	-4.978541	20	PASS
			NV	-10	-29000	-4.978541	20	PASS
			NV	0	-29000	-4.978541	20	PASS
			NV	10	-29000	-4.978541	20	PASS
			NV	20	-29000	-4.978541	20	PASS
			NV	30	-29000	-4.978541	20	PASS
			NV	40	-29000	-4.978541	20	PASS
			NV	50	-29000	-4.978541	20	PASS
11AC40SIS O	Ant	5755	NV	-30	-29000	-5.039096	20	PASS
			NV	-20	-29000	-5.039096	20	PASS
			NV	-10	-29000	-5.039096	20	PASS
			NV	0	-29000	-5.039096	20	PASS
			NV	10	-29000	-5.039096	20	PASS
			NV	20	-29000	-5.039096	20	PASS
			NV	30	-29000	-5.039096	20	PASS
			NV	40	-29000	-5.039096	20	PASS
			NV	50	-29000	-5.039096	20	PASS
		5795	NV	-30	-29000	-5.004314	20	PASS
			NV	-20	-30000	-5.176877	20	PASS
			NV	-10	-30000	-5.176877	20	PASS
			NV	0	-30000	-5.176877	20	PASS
			NV	10	-30000	-5.176877	20	PASS
			NV	20	-30000	-5.176877	20	PASS
			NV	30	-30000	-5.176877	20	PASS
			NV	40	-30000	-5.176877	20	PASS
			NV	50	-30000	-5.176877	20	PASS
11AC80SIS O	Ant	5775	NV	-30	-29000	-5.021645	20	PASS
			NV	-20	-30000	-5.194805	20	PASS
			NV	-10	-30000	-5.194805	20	PASS
			NV	0	-30000	-5.194805	20	PASS
			NV	10	-30000	-5.194805	20	PASS
			NV	20	-30000	-5.194805	20	PASS
			NV	30	-30000	-5.194805	20	PASS





			NV	40	-30000	-5.194805	20	PASS
			NV	50	-30000	-5.194805	20	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



E.6 Duty Cycle

Test Result

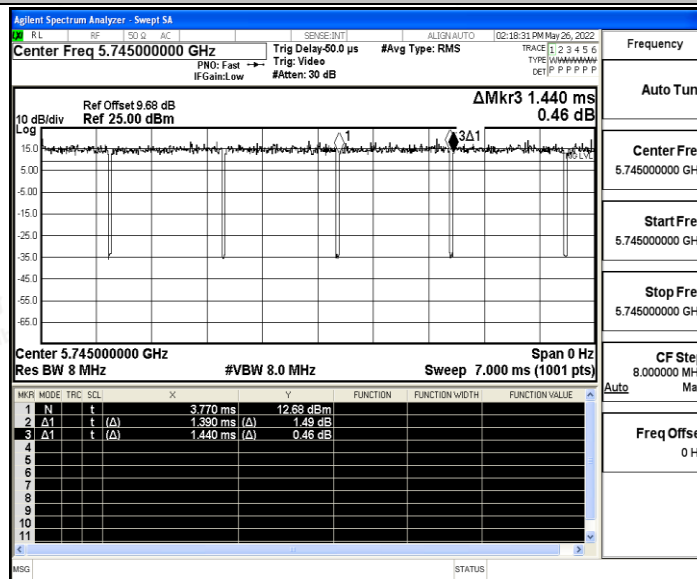
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant	5745	1.39	1.44	96.53	---	---
		5785	1.40	1.44	97.22	---	---
		5825	1.40	1.44	97.22	---	---
11N20SISO	Ant	5745	1.30	1.34	97.01	---	---
		5785	1.30	1.34	97.01	---	---
		5825	1.29	1.34	96.27	---	---
11N40SISO	Ant	5755	0.65	0.70	92.86	---	---
		5795	0.65	0.70	92.86	---	---
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	0.65	0.69	94.20	---	---
		5795	0.66	0.70	94.29	---	---
11AC80SISO	Ant	5775	0.33	0.37	89.19	---	---



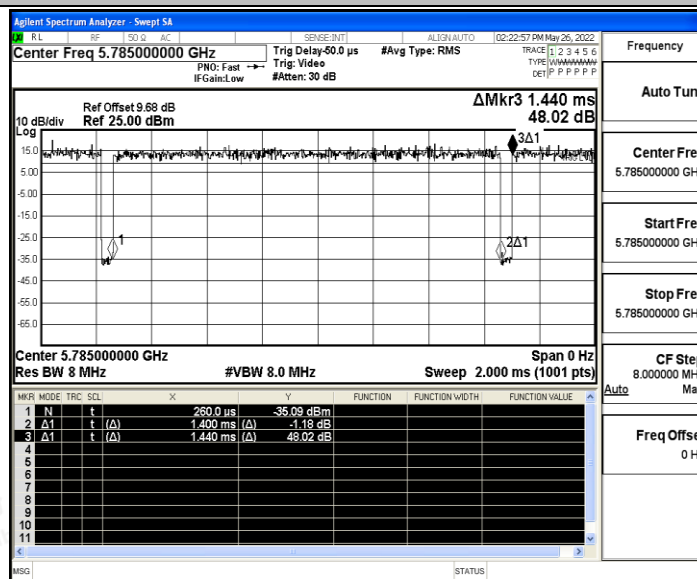


Test Graphs

11A_Ant_5745

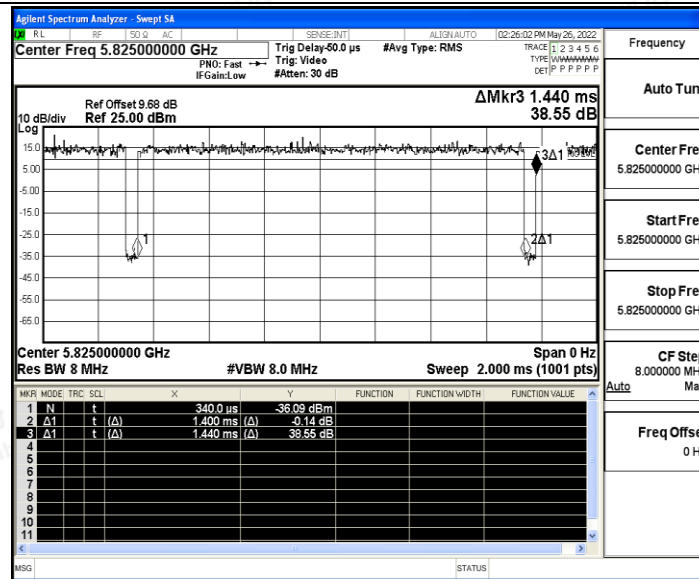


11A_Ant_5785

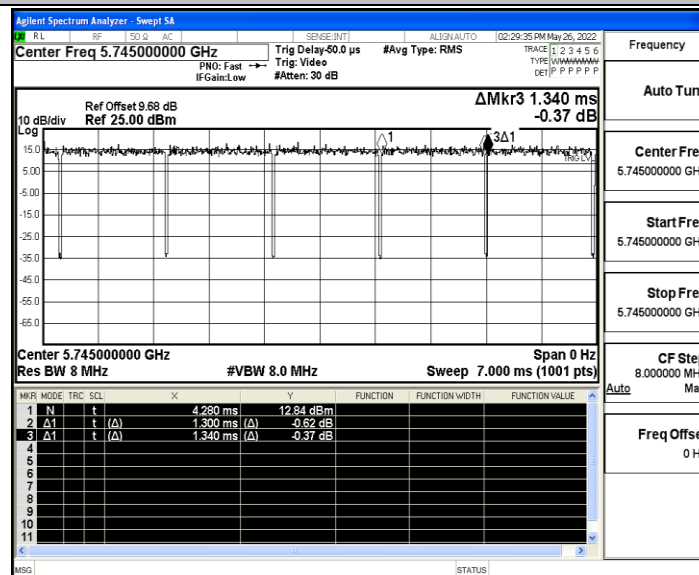


11A_Ant_5825



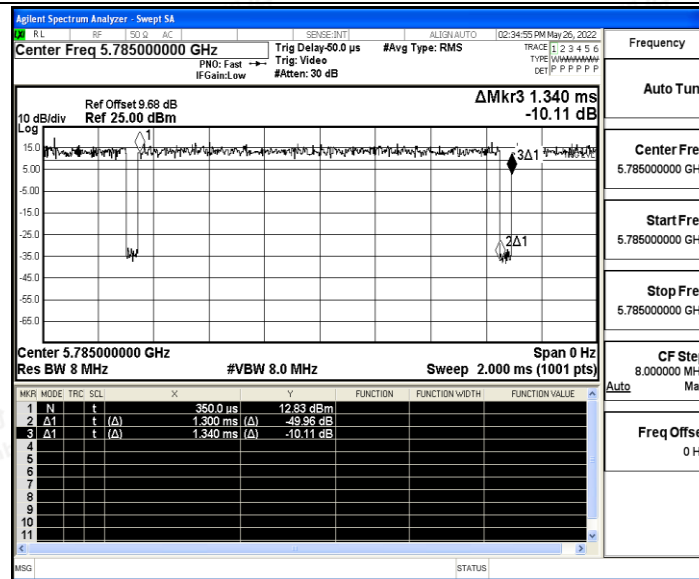


11N20SISO_Ant_5745

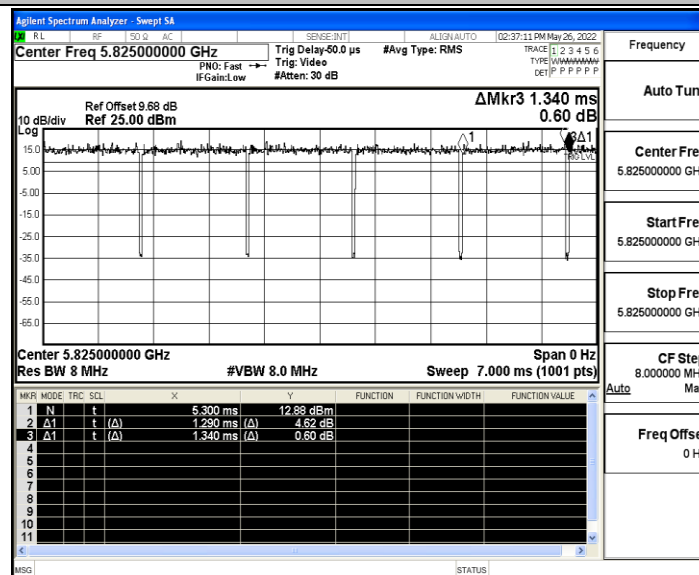


11N20SISO_Ant_5785



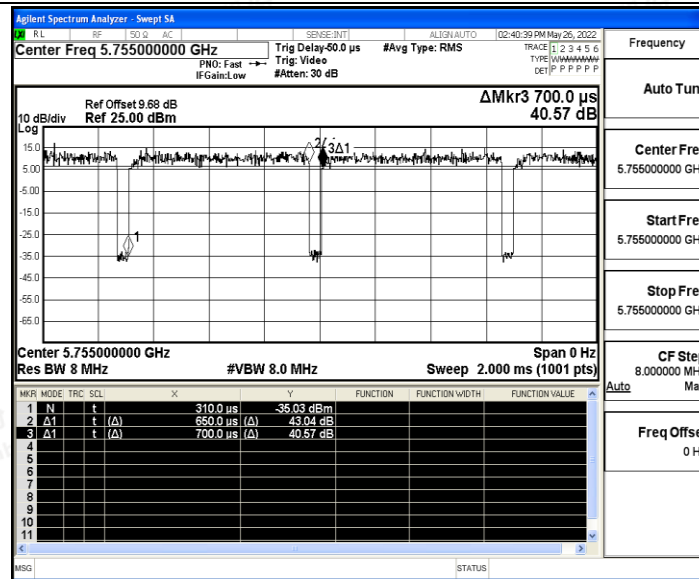


11N20SISO_Ant_5825

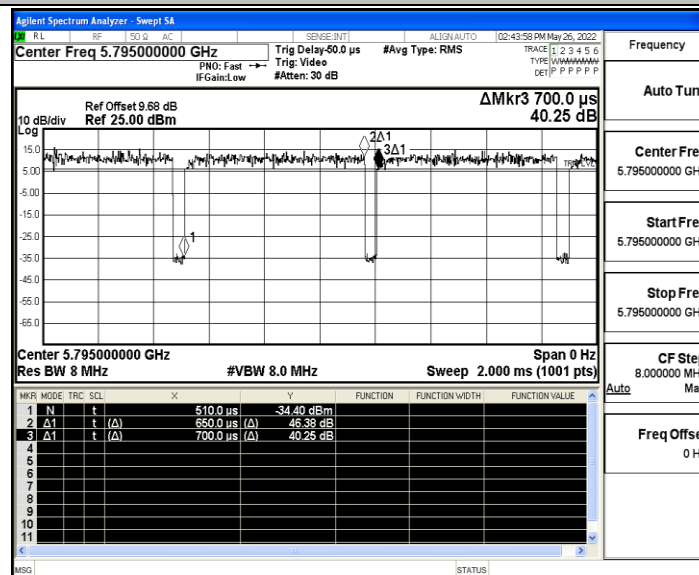


11N40SISO_Ant_5755



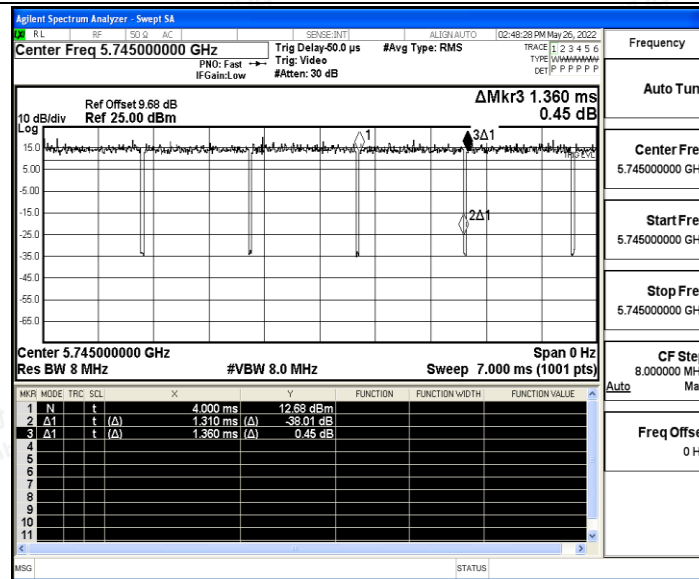


11N40SISO_Ant_5795

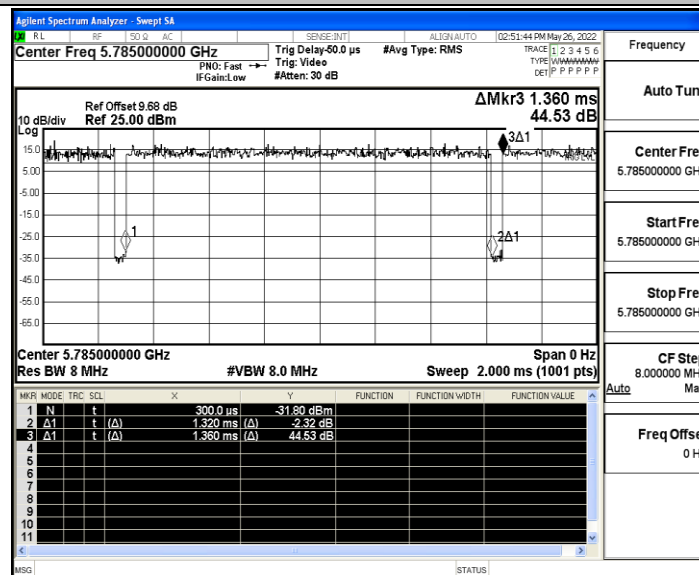


11AC20SISO_Ant_5745



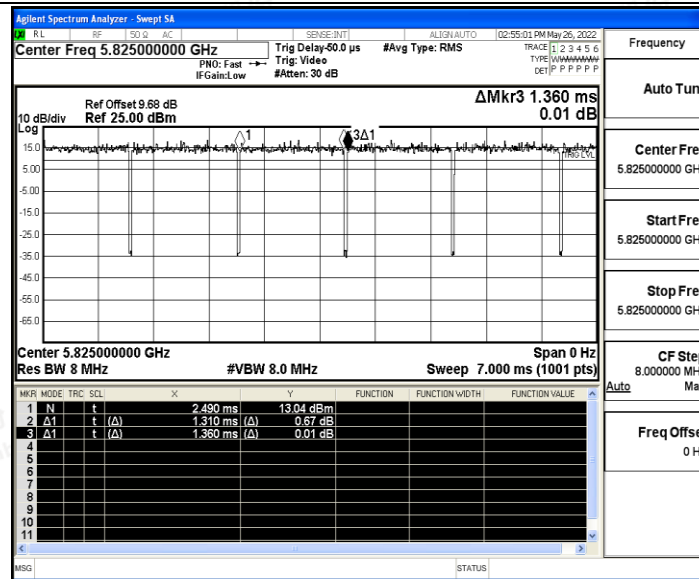


11AC20SISO_Ant_5785

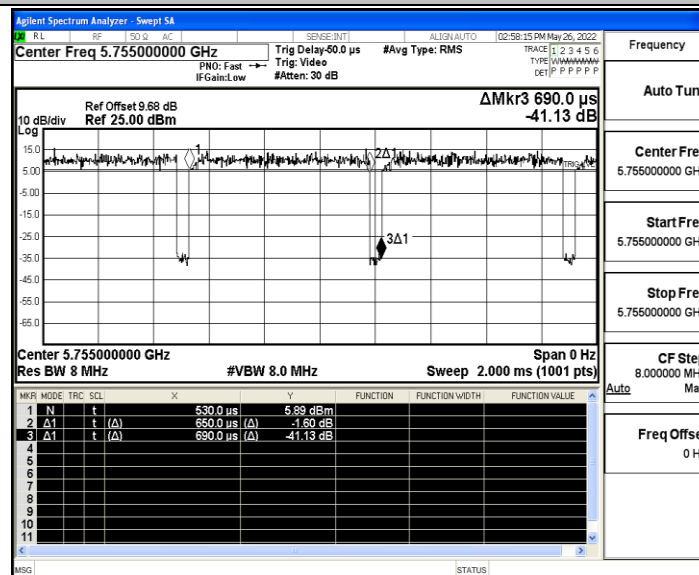


11AC20SISO_Ant_5825



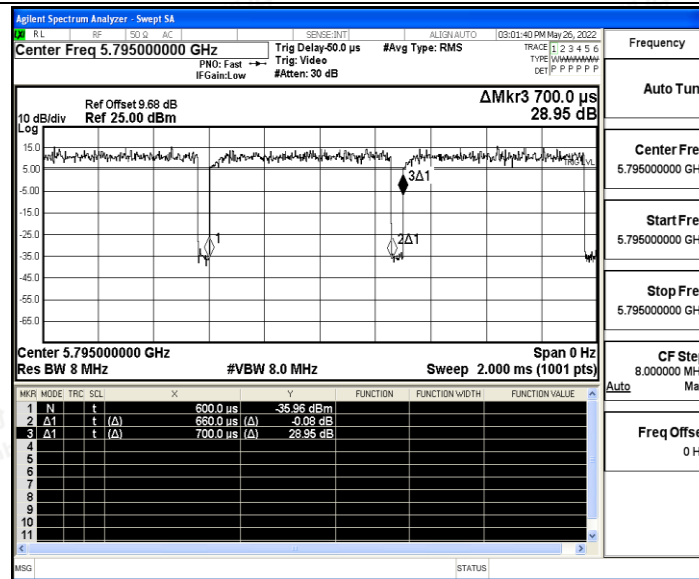


11AC40SISO_Ant_5755



11AC40SISO_Ant_5795





11AC80SISO_Ant_5775

