



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 7TOUCH KEYPAD

Test Model: 8860

Environmental Conditions

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





B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.000	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.000	2404.080	2440.080	0.5	PASS
		2437	35.680	2419.240	2454.920	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS

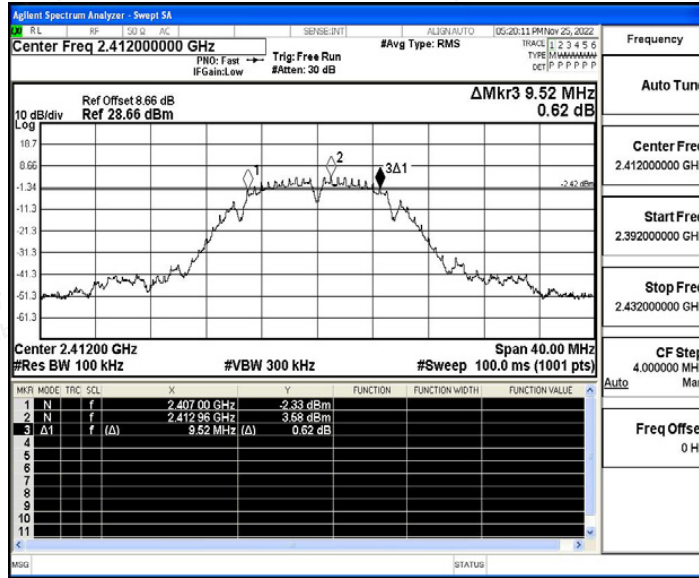


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

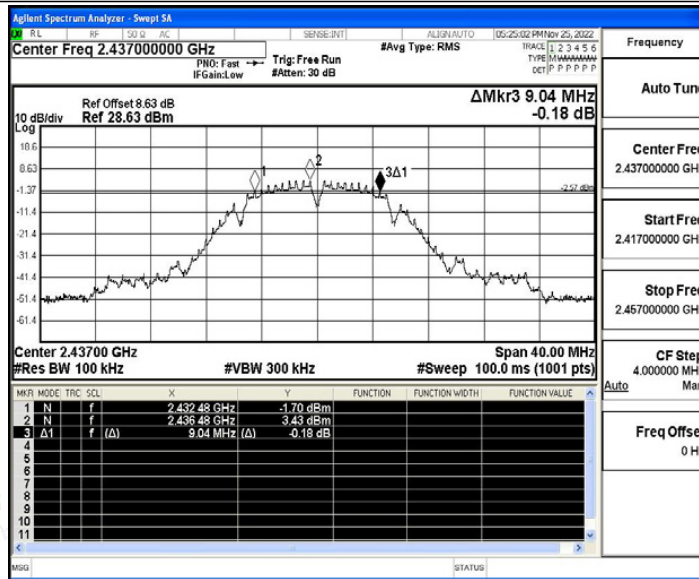


Test Graphs

11B_Ant1_2412

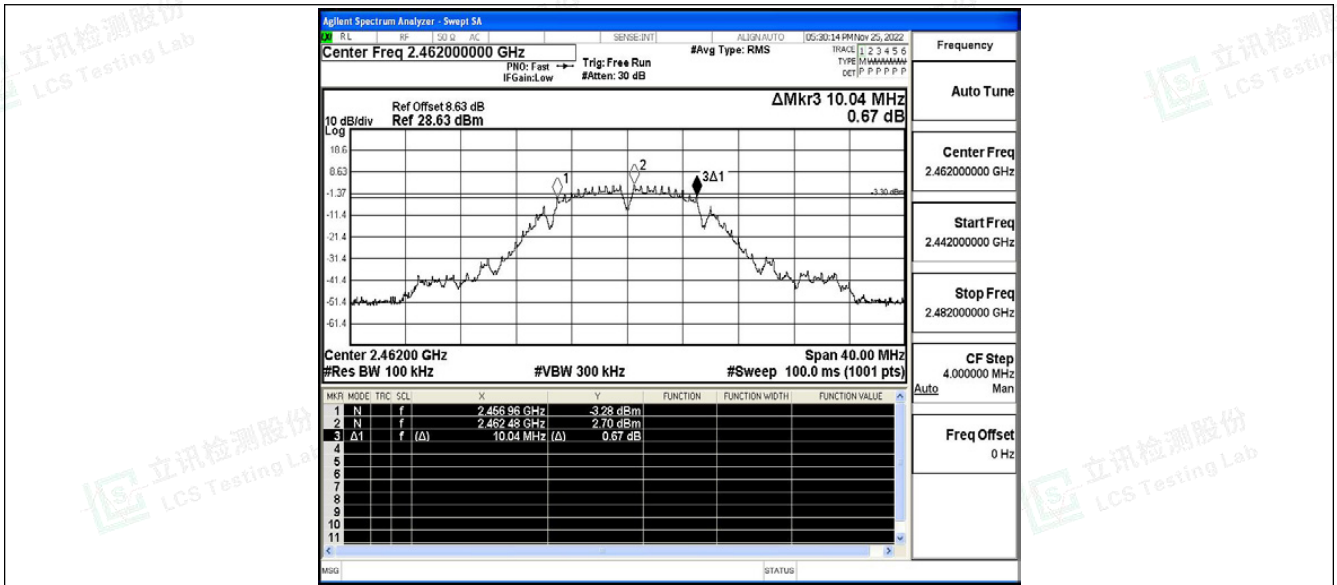


11B_Ant1_2437

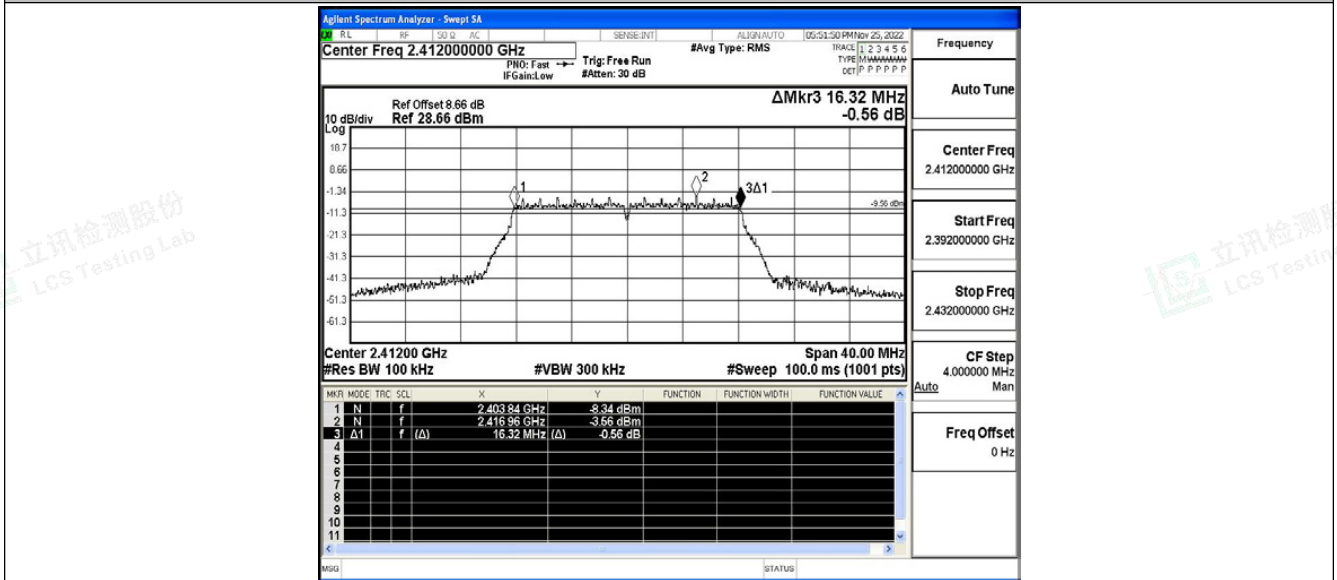


11B_Ant1_2462



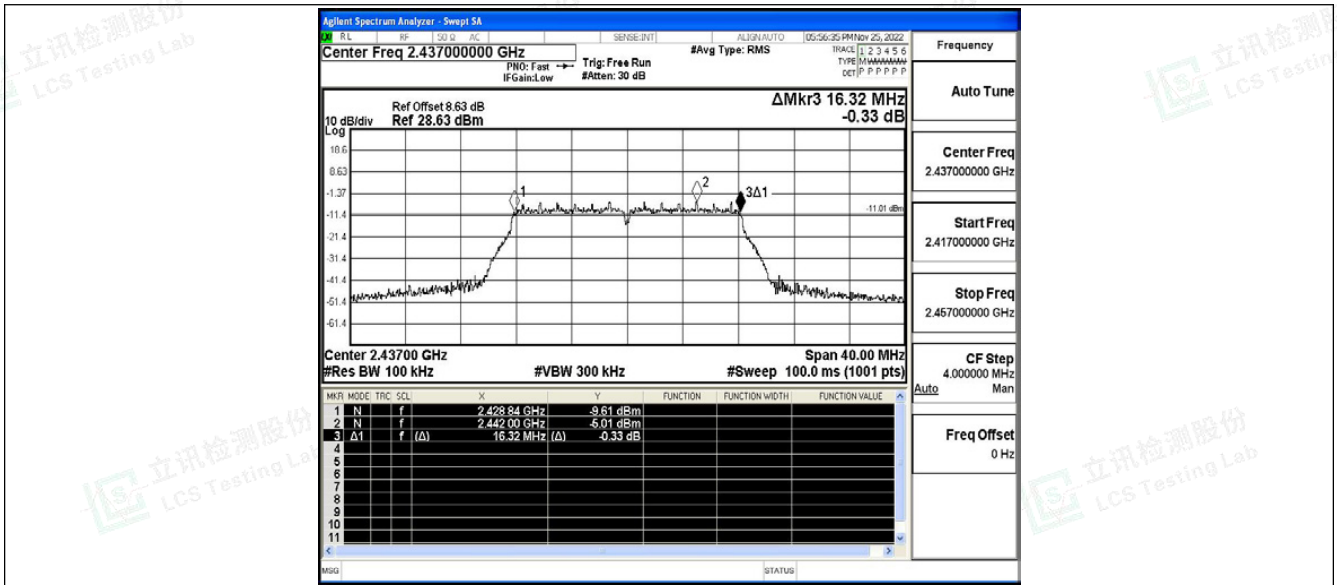


11G_Ant1_2412

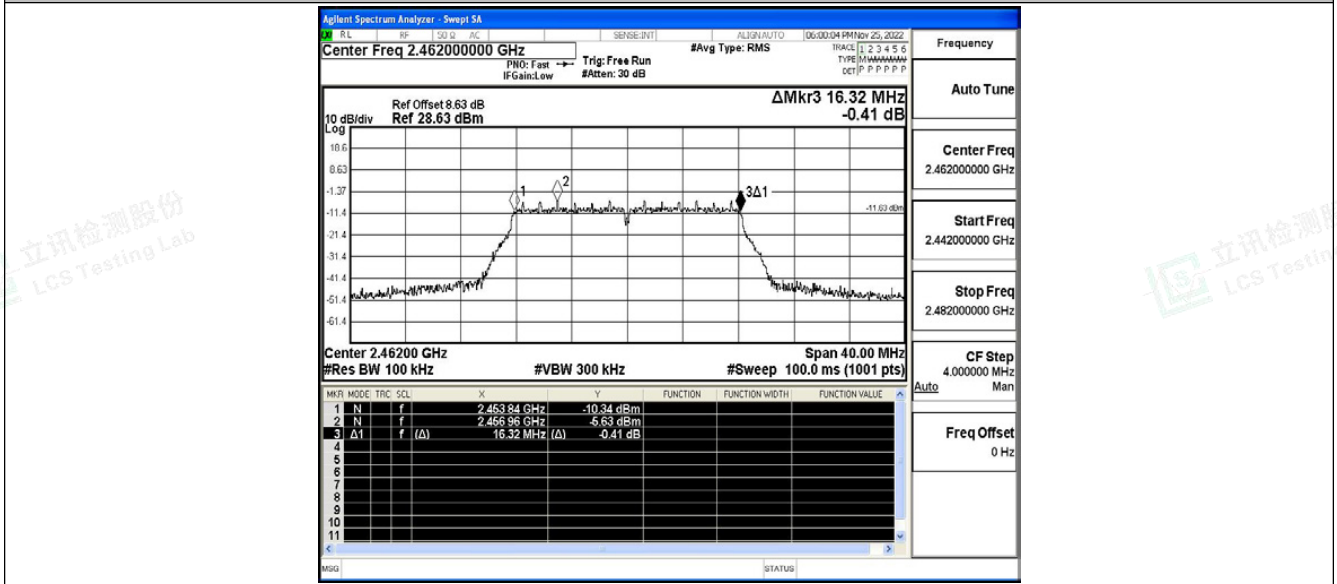


11G_Ant1_2437



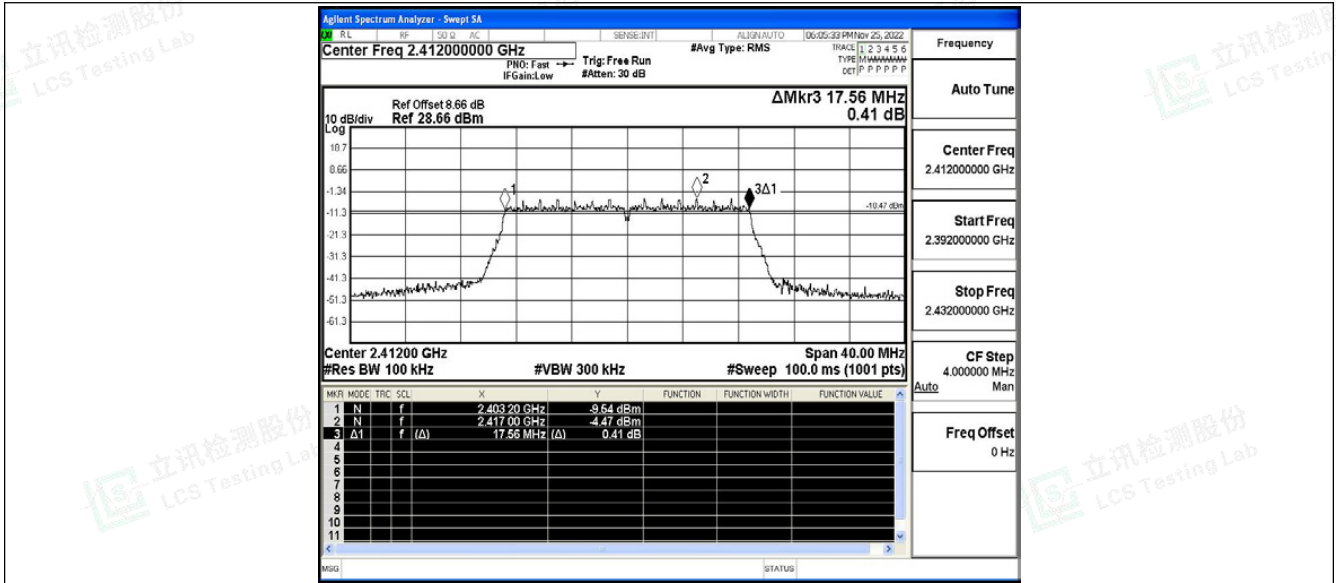


11G_Ant1_2462

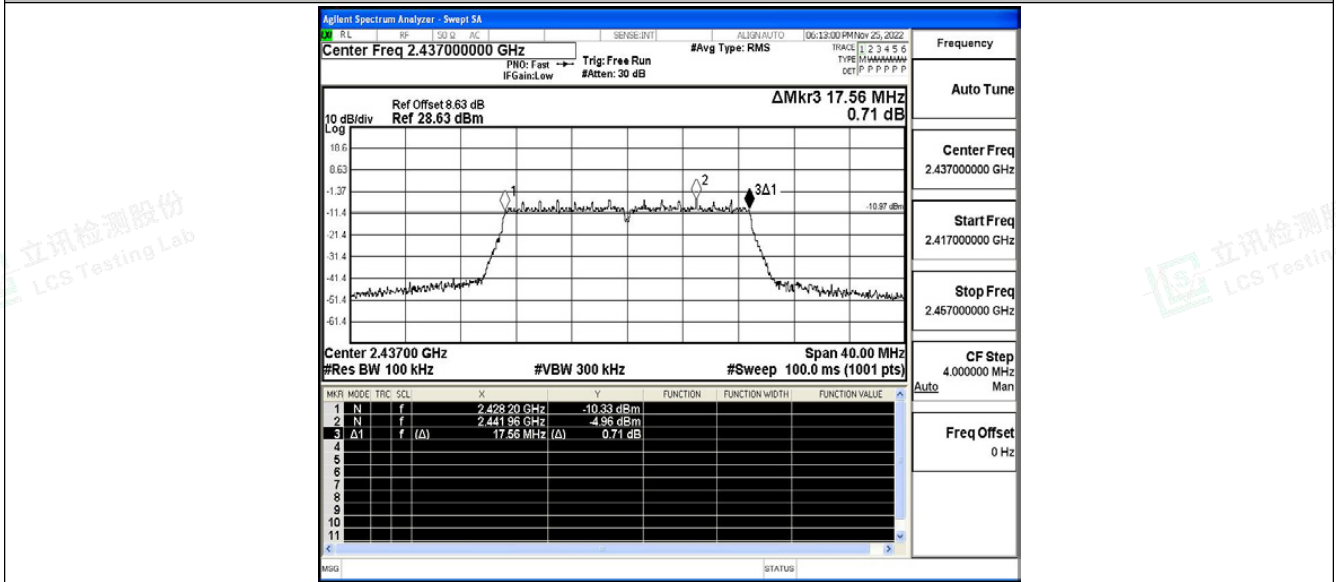


11N20SISO_Ant1_2412



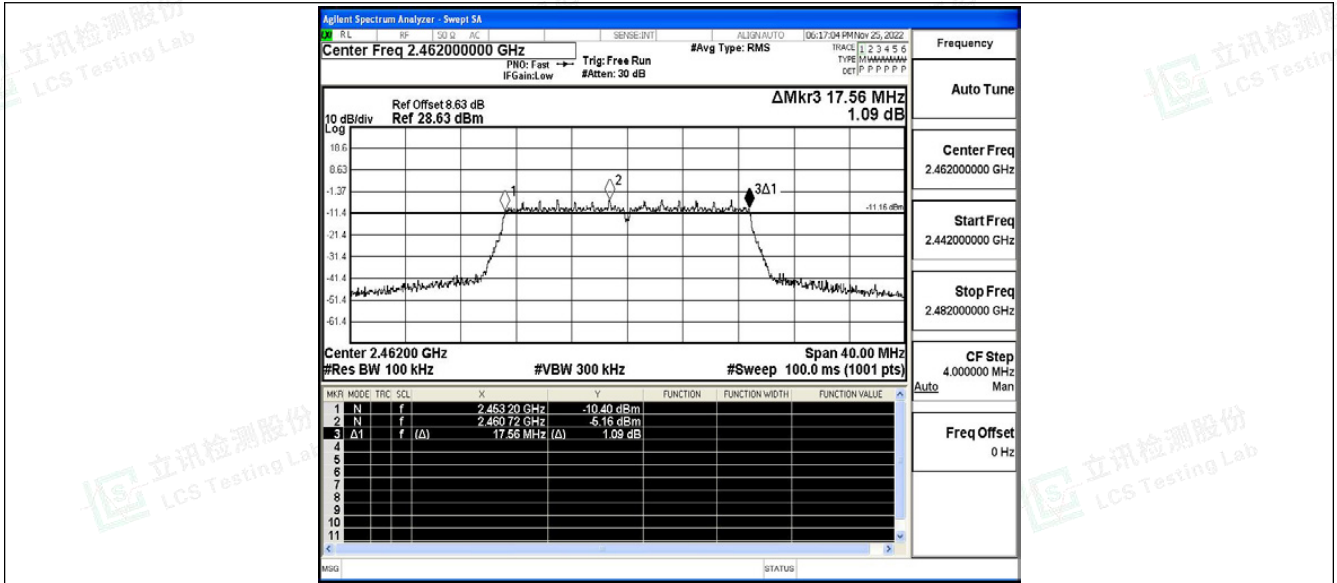


11N20SISO_Ant1_2437

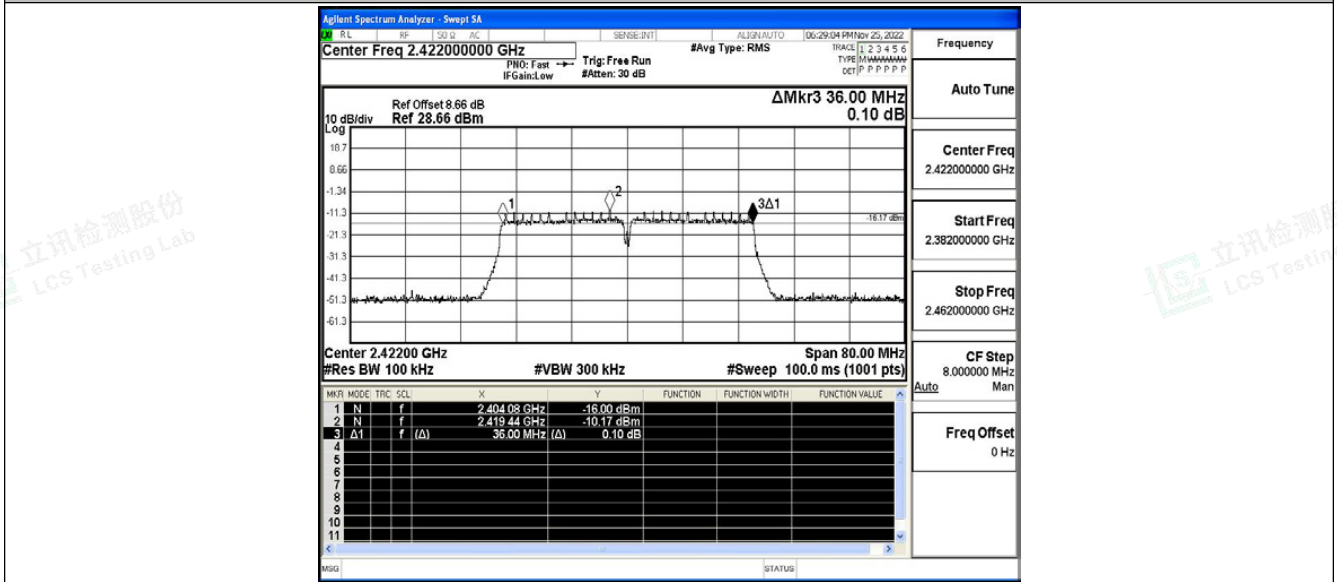


11N20SISO_Ant1_2462



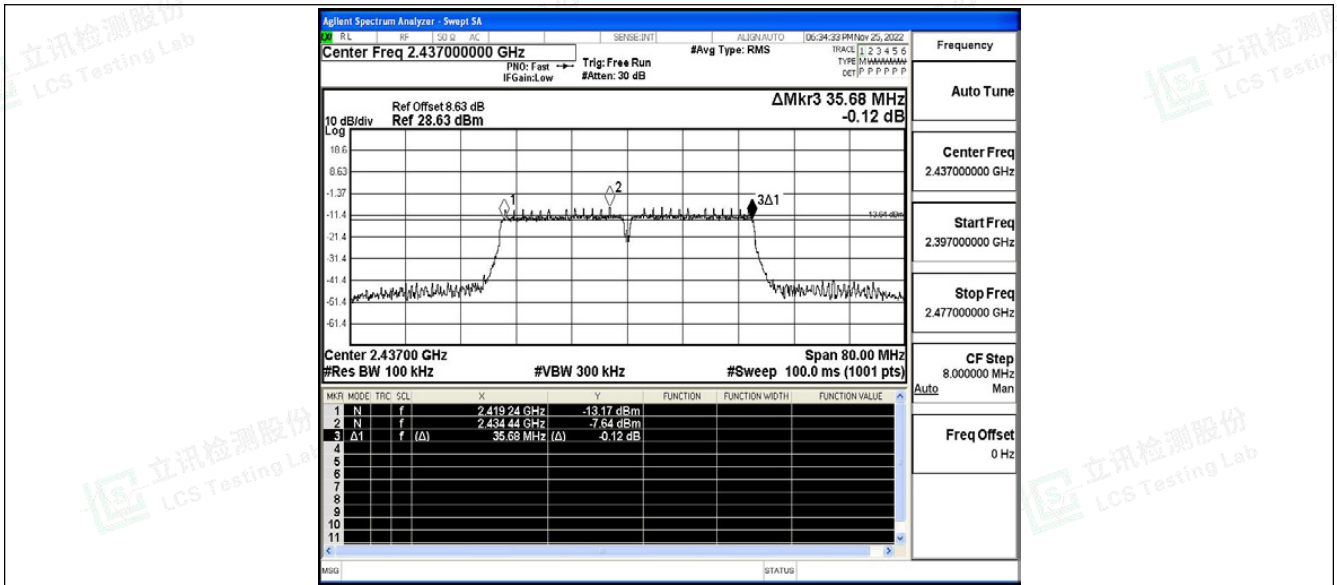


11N40SISO_Ant1_2422

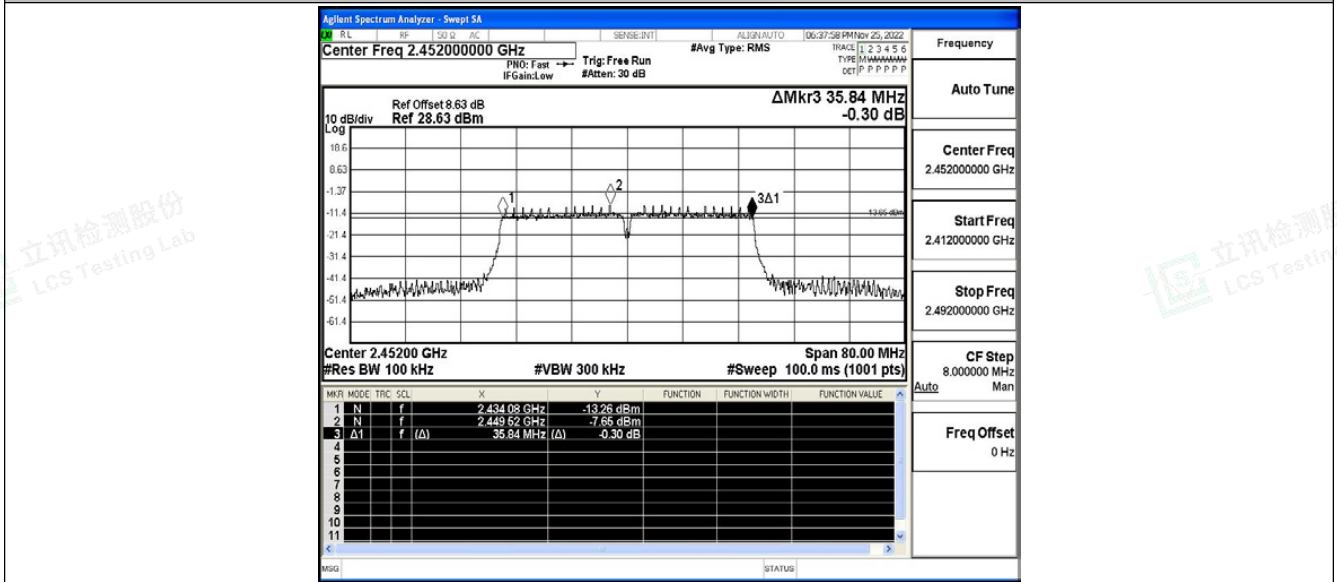


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.56	≤30.00	PASS
		2437	15.19	≤30.00	PASS
		2462	14.83	≤30.00	PASS
11G	Ant1	2412	16.09	≤30.00	PASS
		2437	14.61	≤30.00	PASS
		2462	13.96	≤30.00	PASS
11N20SISO	Ant1	2412	15.04	≤30.00	PASS
		2437	14.77	≤30.00	PASS
		2462	14.48	≤30.00	PASS
11N40SISO	Ant1	2422	13.52	≤30.00	PASS
		2437	14.68	≤30.00	PASS
		2452	14.64	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

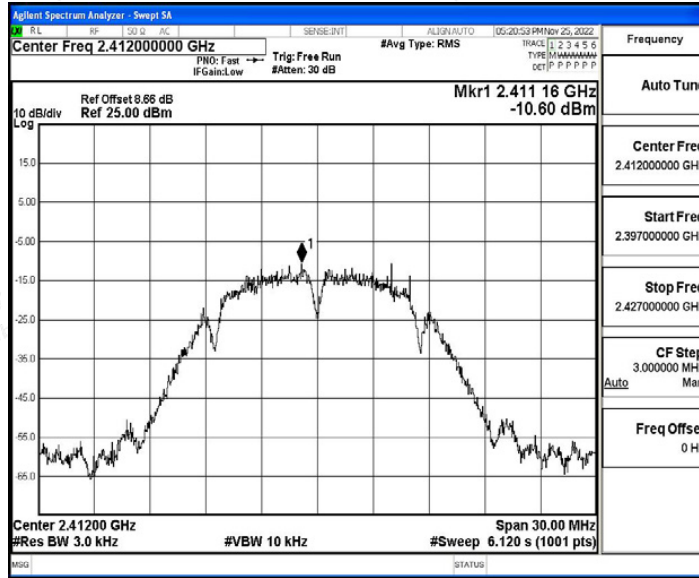
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.6	≤8.00	PASS
		2437	-11.63	≤8.00	PASS
		2462	-11.56	≤8.00	PASS
11G	Ant1	2412	-17.43	≤8.00	PASS
		2437	-19.28	≤8.00	PASS
		2462	-19.52	≤8.00	PASS
11N20SISO	Ant1	2412	-18.09	≤8.00	PASS
		2437	-19.12	≤8.00	PASS
		2462	-19.69	≤8.00	PASS
11N40SISO	Ant1	2422	-22.49	≤8.00	PASS
		2437	-21.52	≤8.00	PASS
		2452	-22.98	≤8.00	PASS



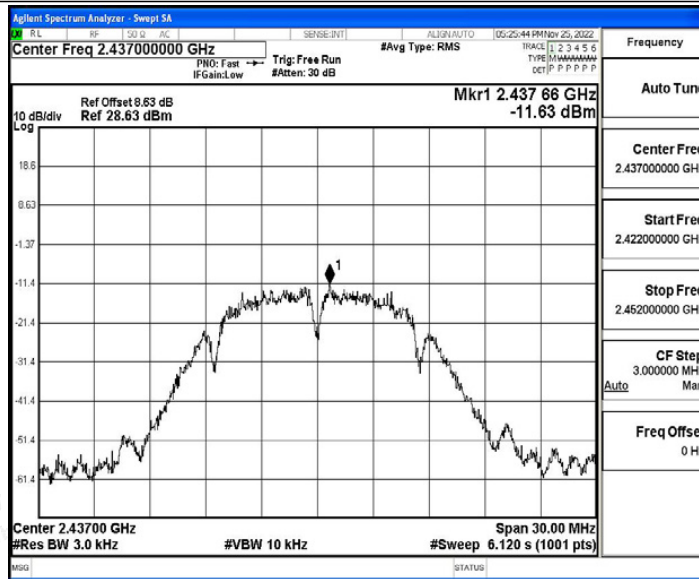


Test Graphs

11B_Ant1_2412

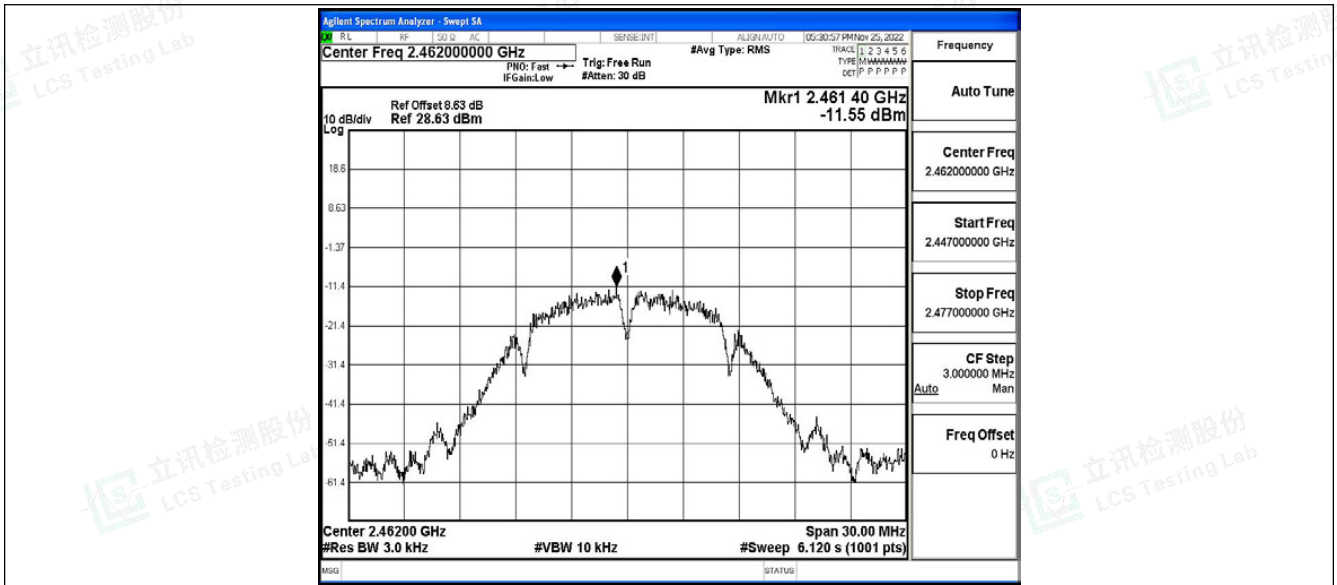


11B_Ant1_2437

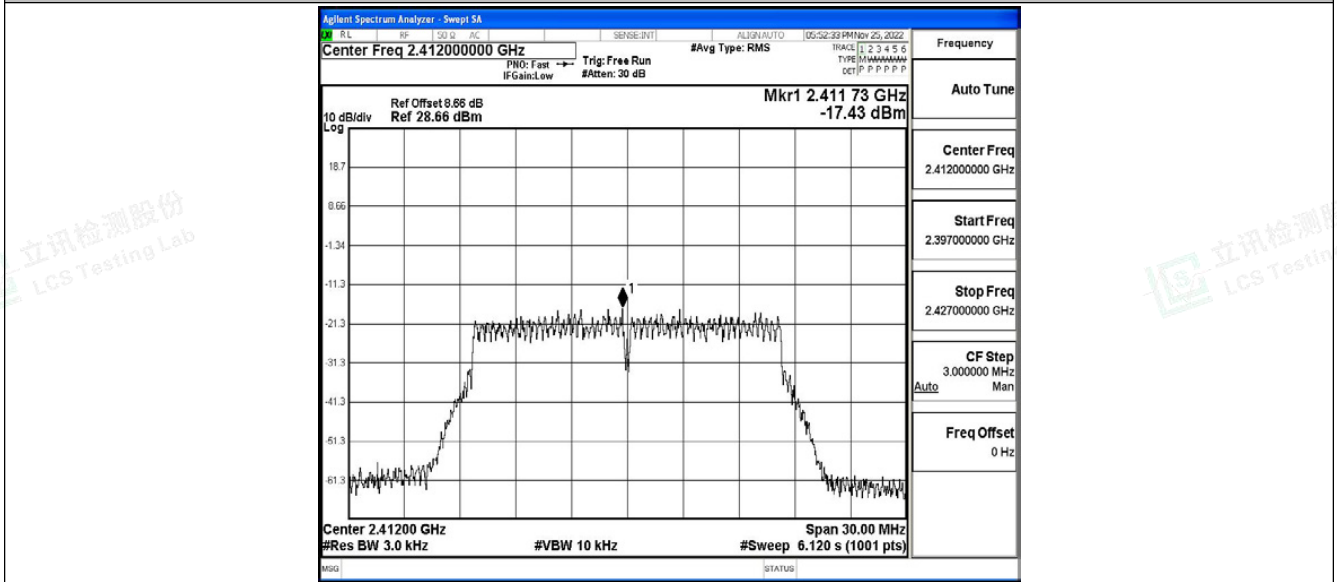


11B_Ant1_2462



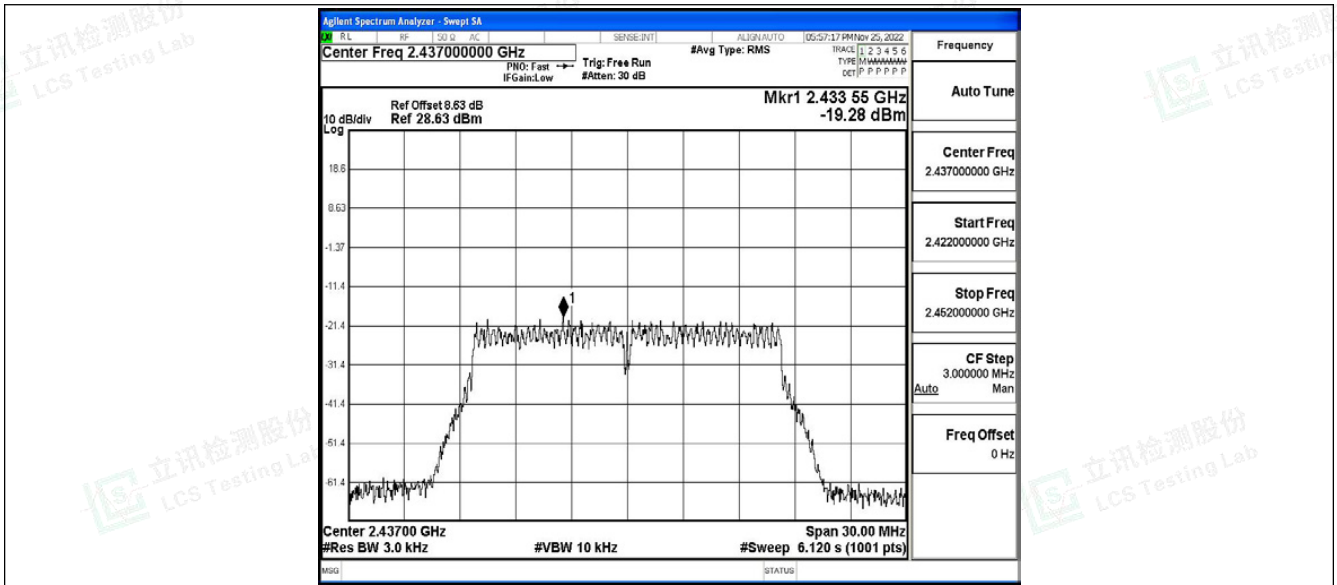


11G_Ant1_2412

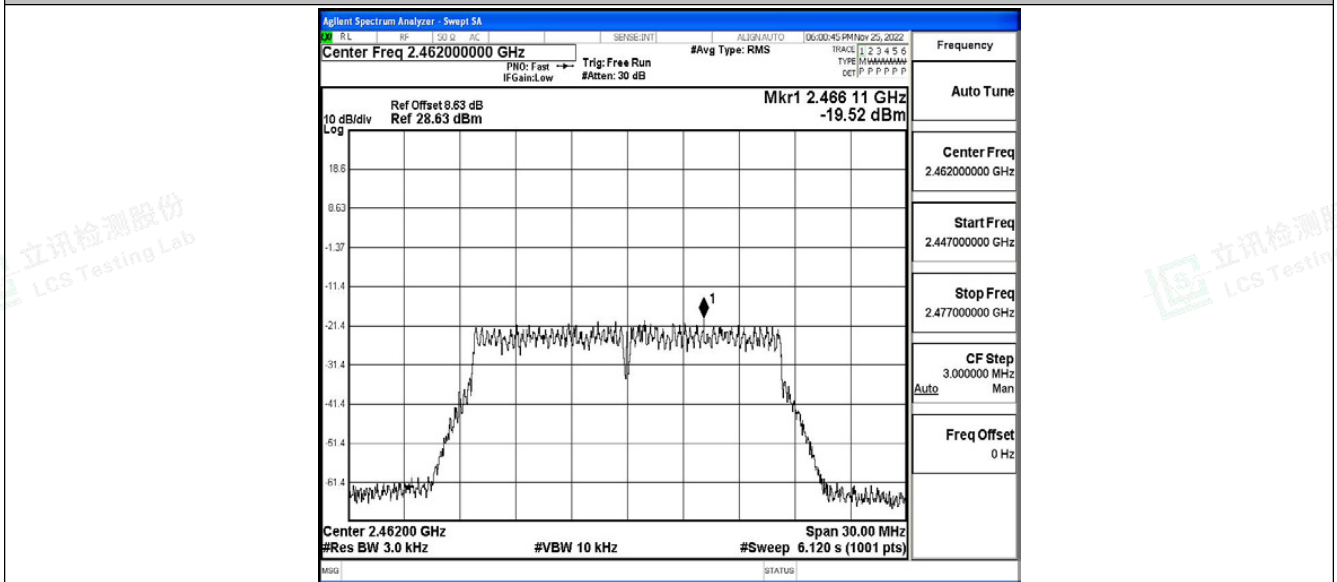


11G_Ant1_2437



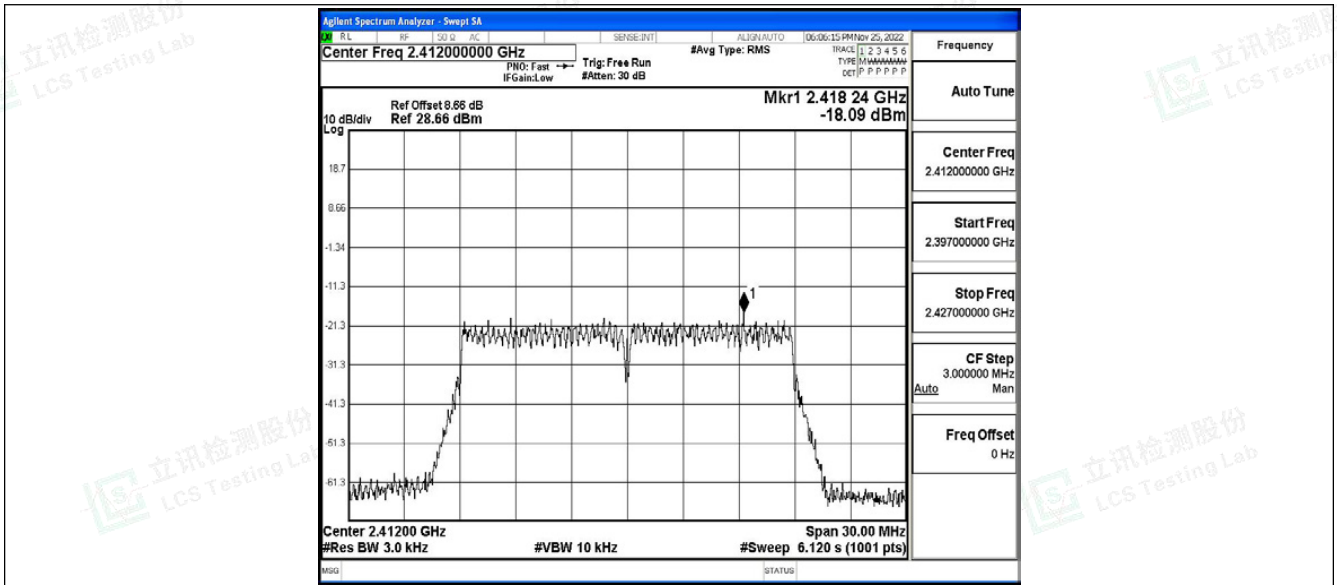


11G_Ant1_2462

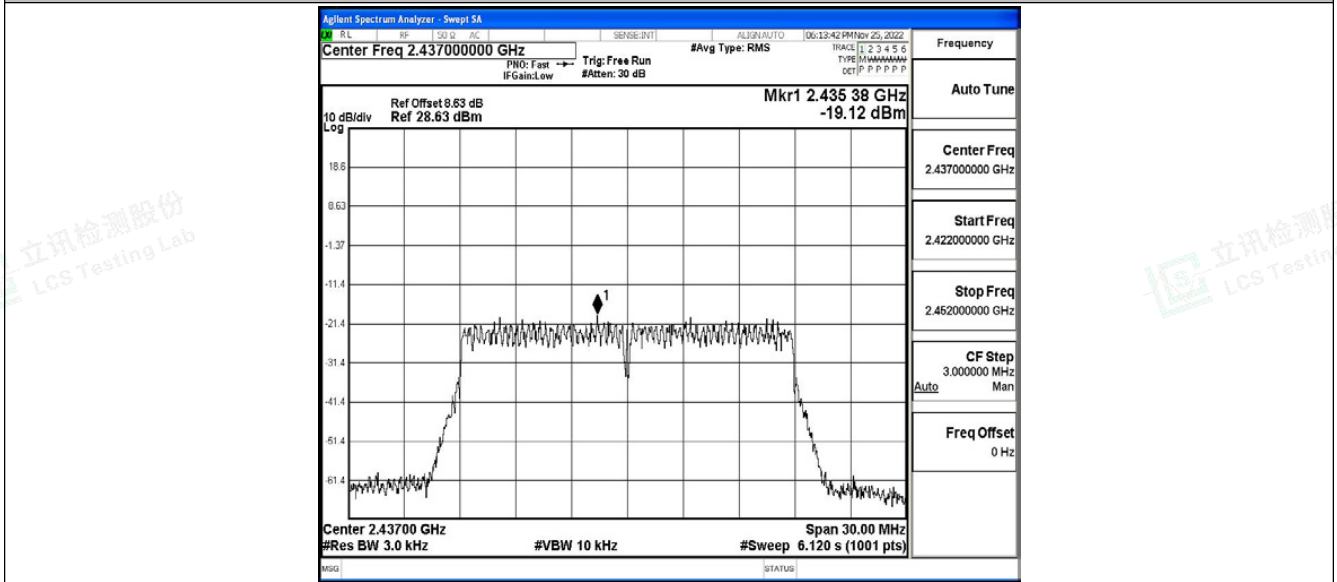


11N20SISO_Ant1_2412



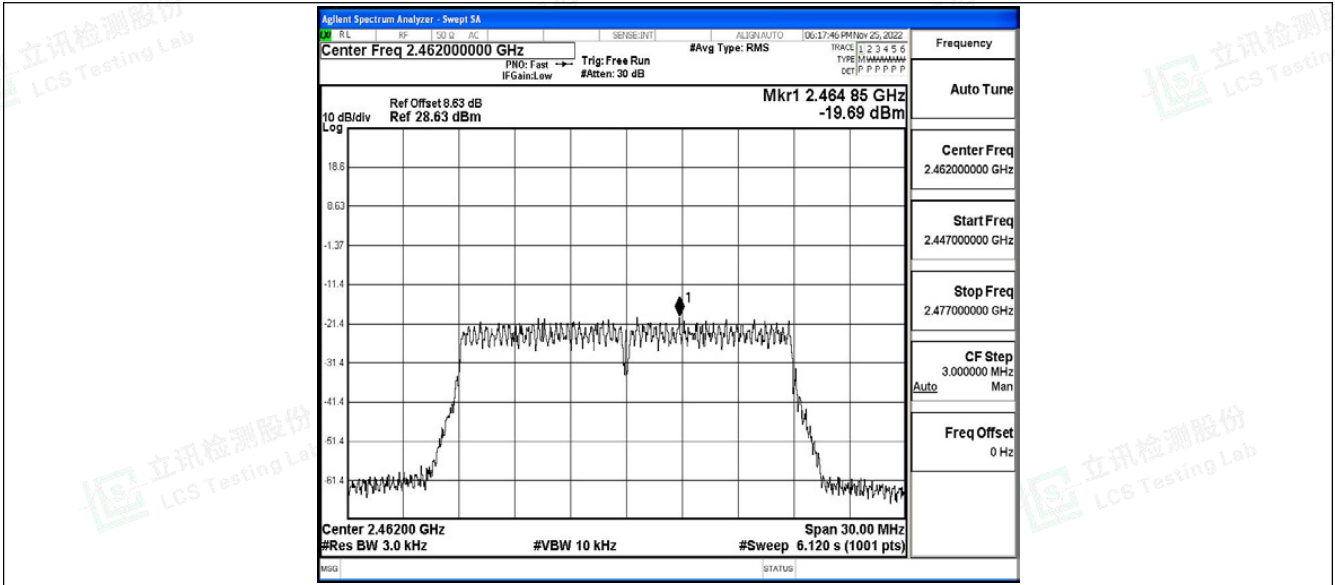


11N20SISO_Ant1_2437

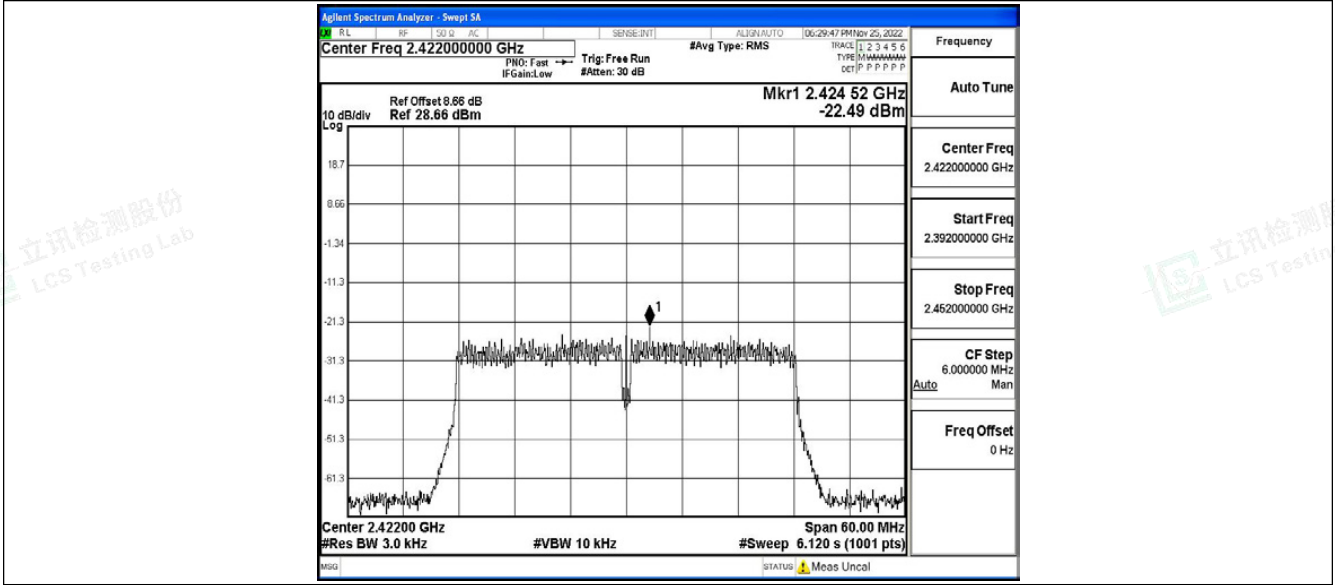


11N20SISO_Ant1_2462



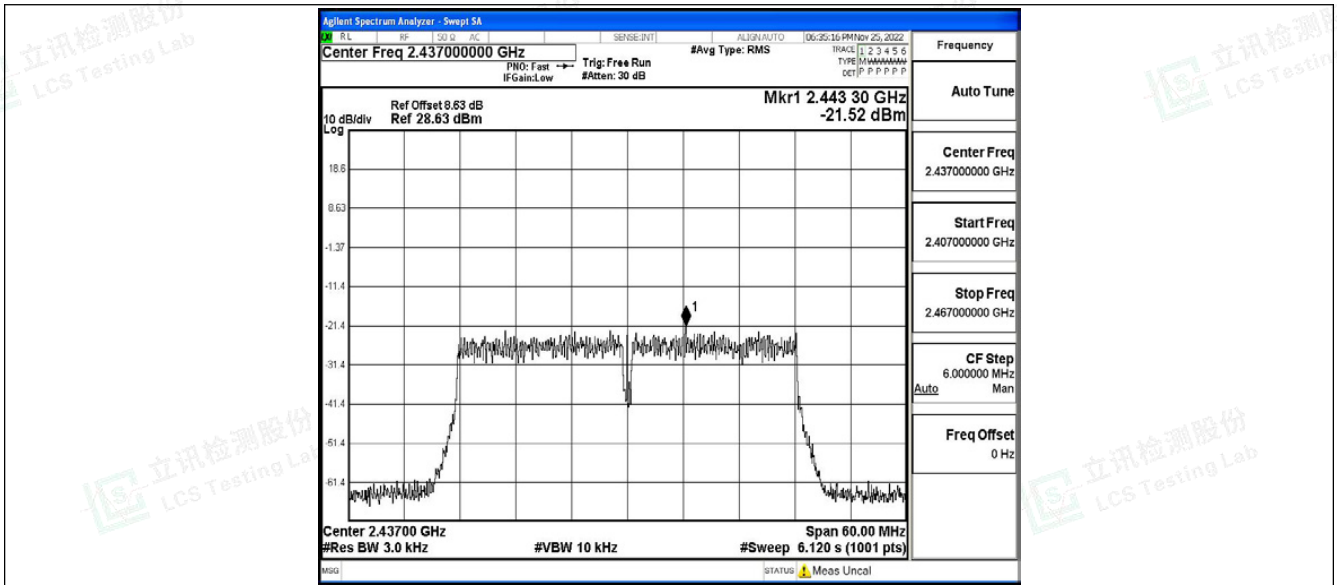


11N40SISO_Ant1_2422

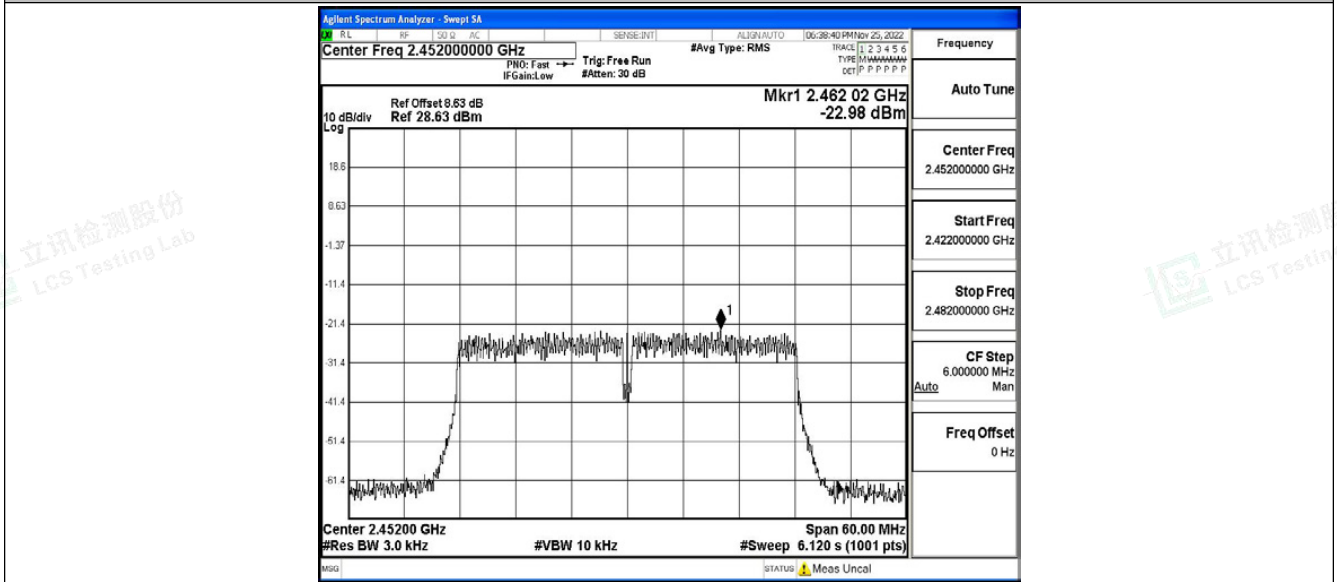


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.68	-41.59	≤-16.32	PASS
		High	2462	2.80	-48.3	≤-17.2	PASS
11G	Ant1	Low	2412	-2.96	-41.07	≤-22.96	PASS
		High	2462	-5.21	-48.23	≤-25.21	PASS
11N20SISO	Ant1	Low	2412	-4.66	-42.72	≤-24.66	PASS
		High	2462	-4.71	-48.18	≤-24.71	PASS
11N40SISO	Ant1	Low	2422	-9.98	-48.31	≤-29.98	PASS
		High	2452	-7.54	-43.31	≤-27.54	PASS

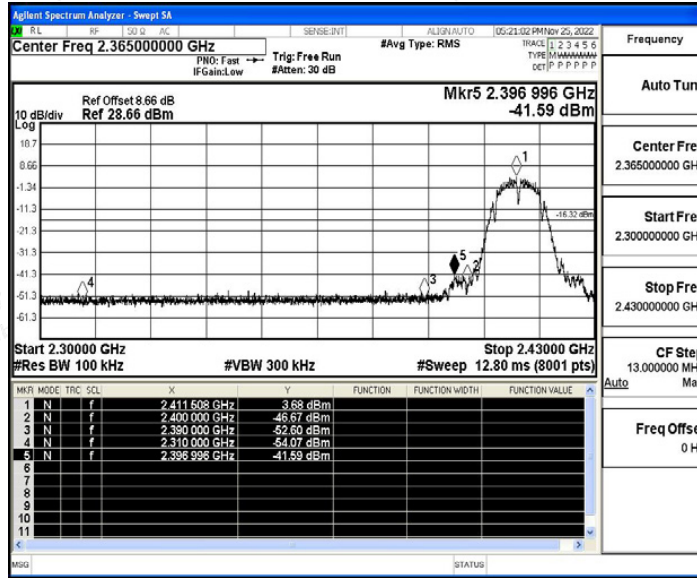


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

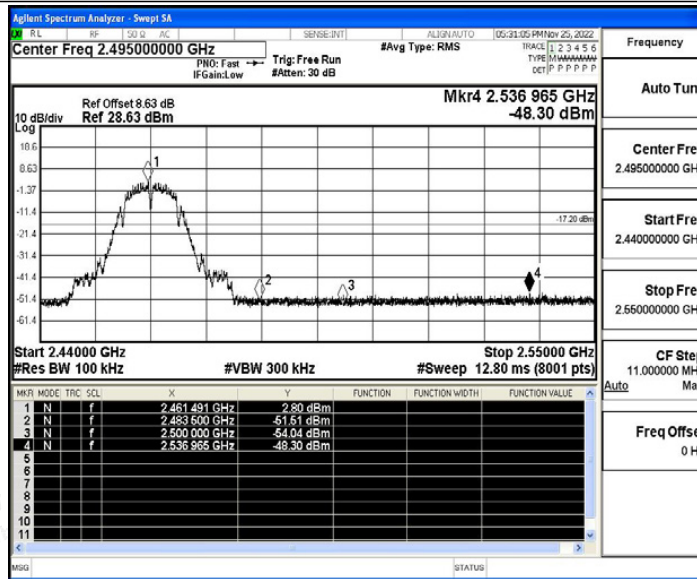


Test Graphs

11B_Ant1_Low_2412

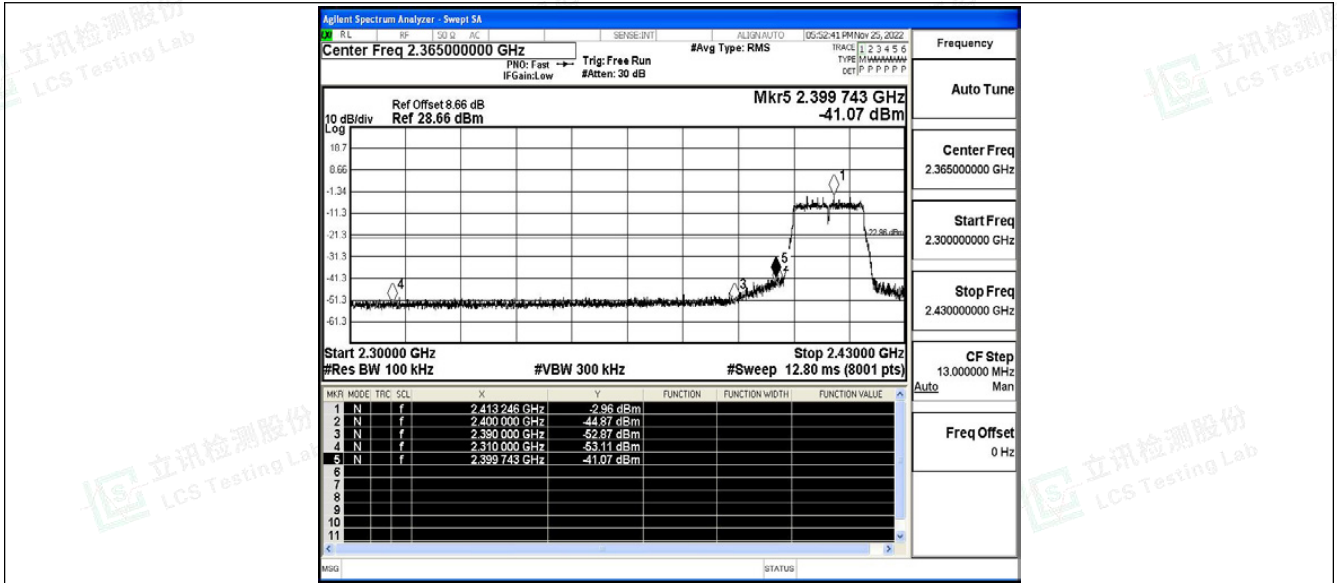


11B_Ant1_High_2462

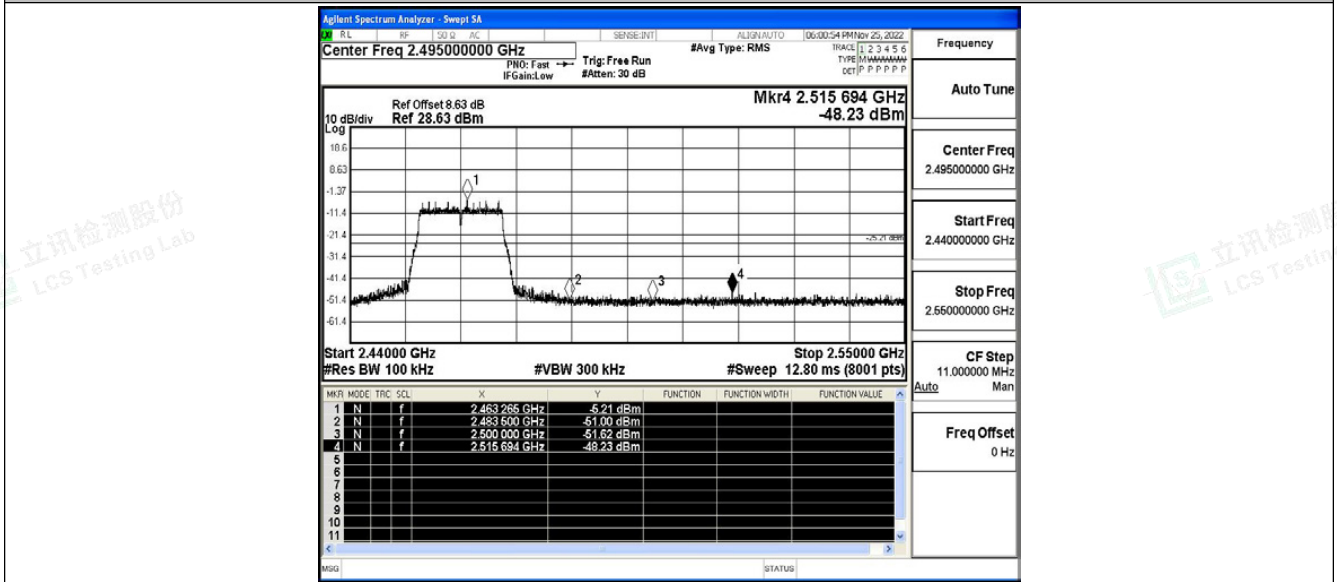


11G_Ant1_Low_2412



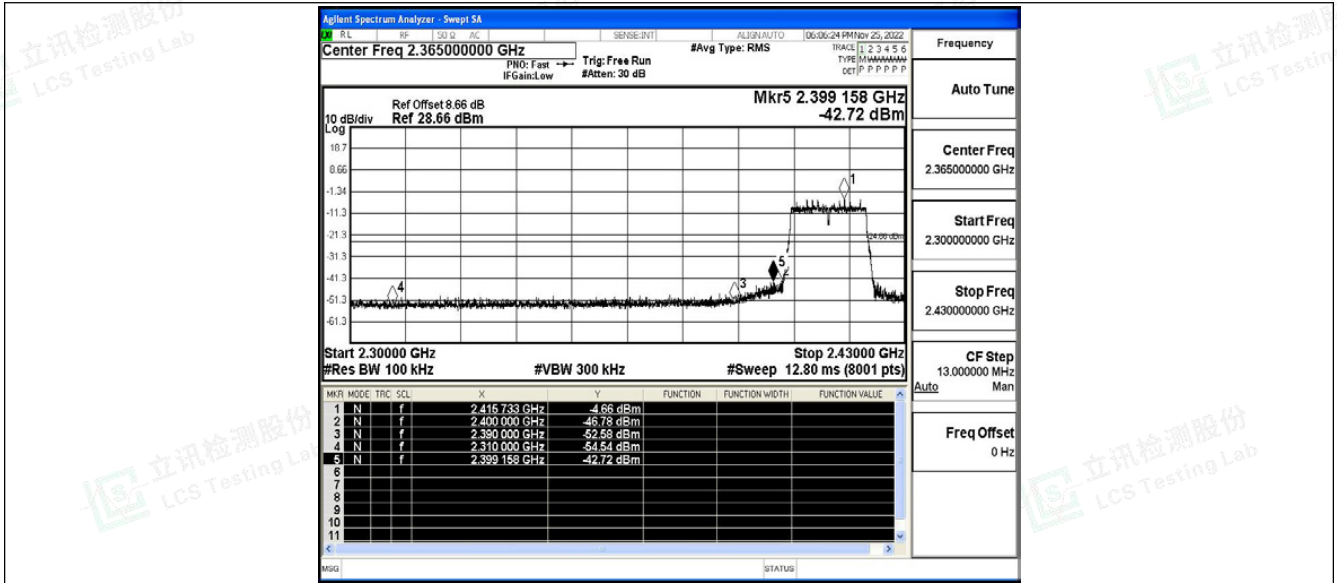


11G_Ant1_High_2462

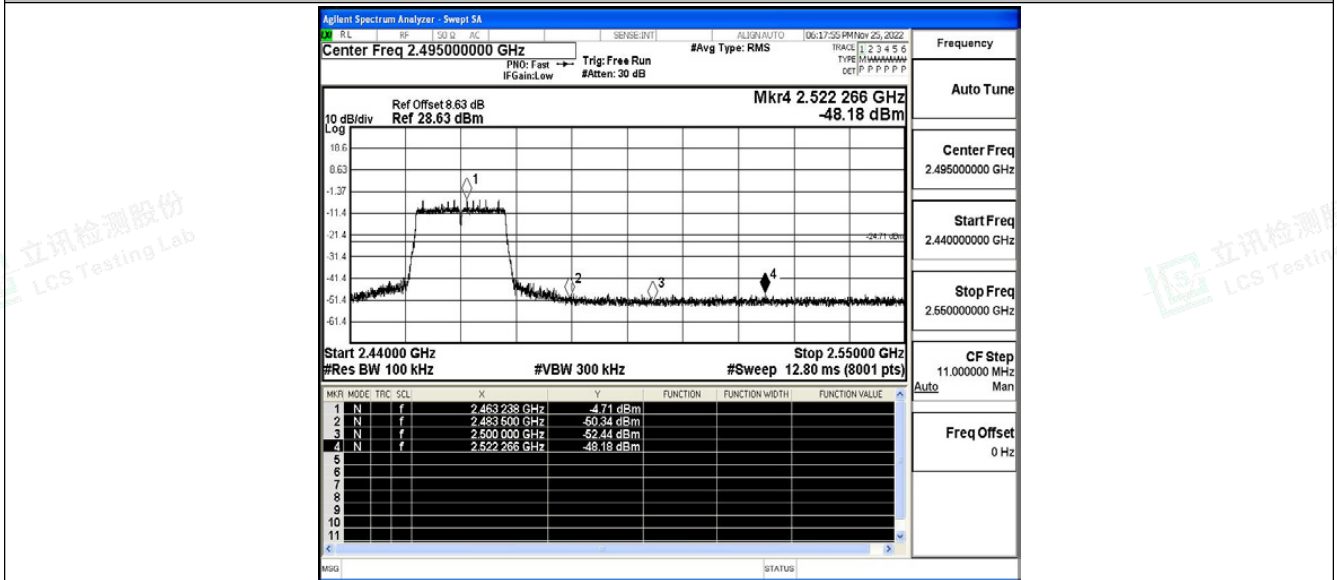


11N20SISO_Ant1_Low_2412



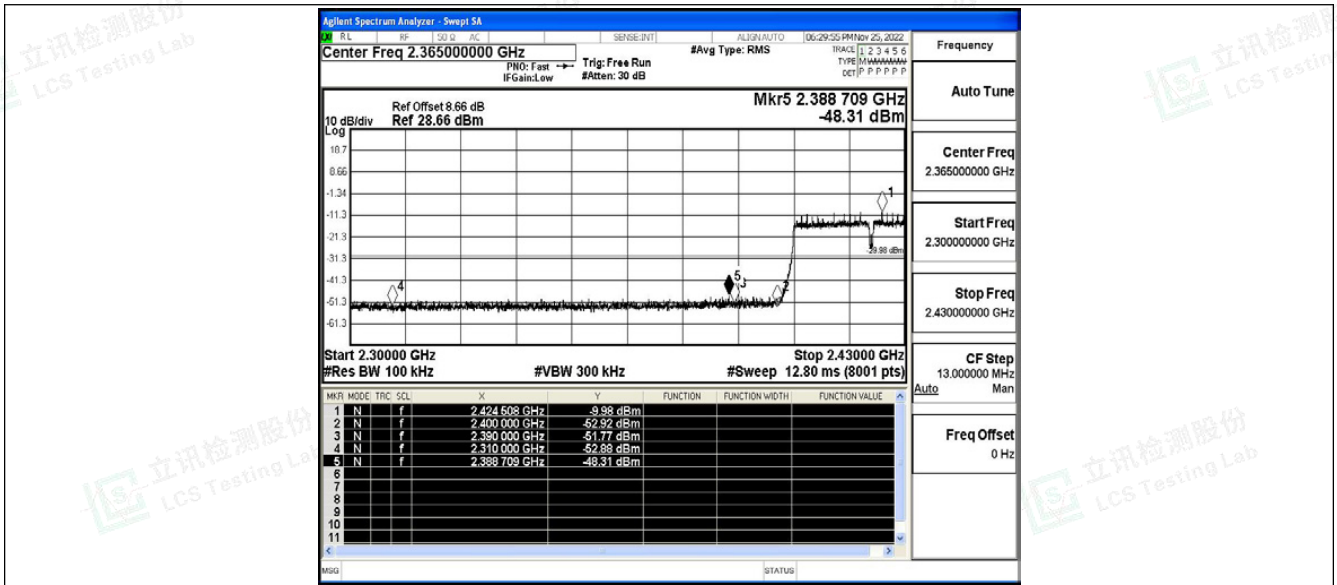


11N20SISO_Ant1_High_2462

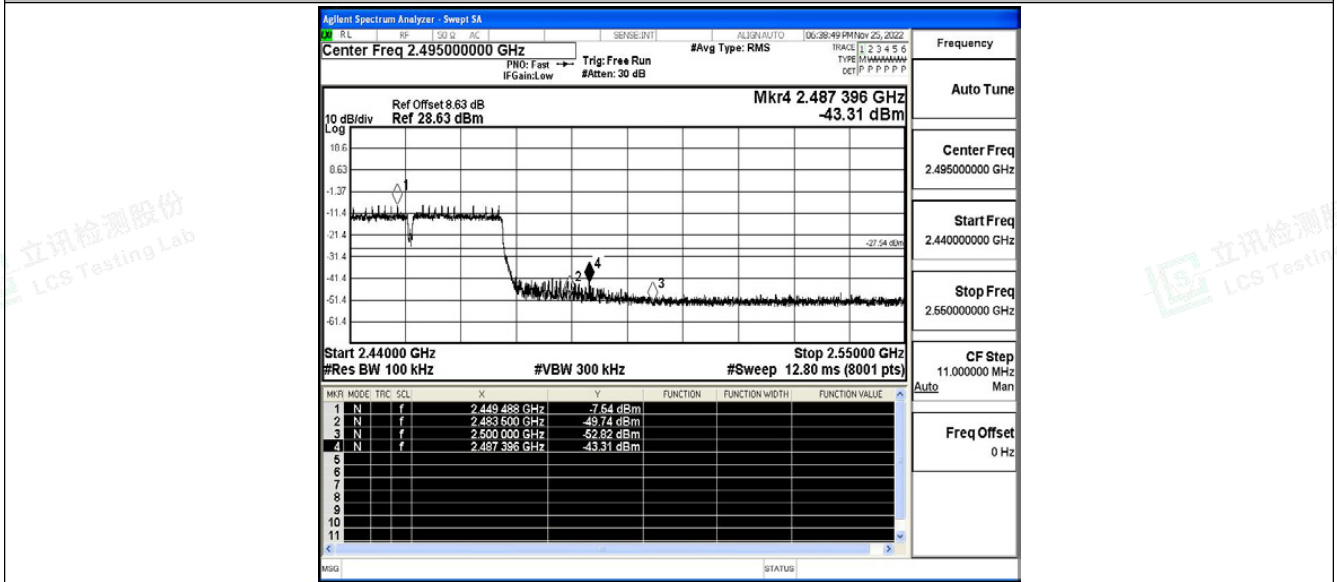


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-60.41	≤-17.8	PASS
			1000~26500	2.20	-46.29	≤-17.8	PASS
		2437	Reference	3.04	3.04	---	PASS
			30~1000	3.04	-56.93	≤-16.96	PASS
			1000~26500	3.04	-46.13	≤-16.96	PASS
		2462	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-60.9	≤-29.94	PASS
			1000~26500	-5.74	-45.63	≤-29.94	PASS
11G	Ant1	2412	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-60.69	≤-24.35	PASS
			1000~26500	-4.35	-46.06	≤-24.35	PASS
		2437	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-60.43	≤-26.04	PASS
			1000~26500	-6.04	-45.76	≤-26.04	PASS
		2462	Reference	-5.57	-5.57	---	PASS
			30~1000	-5.57	-60.76	≤-25.57	PASS
			1000~26500	-5.57	-45.84	≤-25.57	PASS
11N20SISO	Ant1	2412	Reference	-6.67	-6.67	---	PASS
			30~1000	-6.67	-60.97	≤-26.67	PASS
			1000~26500	-6.67	-46.01	≤-26.67	PASS
		2437	Reference	-7.65	-7.65	---	PASS
			30~1000	-7.65	-60.61	≤-27.65	PASS
			1000~26500	-7.65	-46.05	≤-27.65	PASS
		2462	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-60.55	≤-25.15	PASS
			1000~26500	-5.15	-46.22	≤-25.15	PASS
11N40SISO	Ant1	2422	Reference	-10.05	-10.05	---	PASS
			30~1000	-10.05	-56.72	≤-30.05	PASS
			1000~26500	-10.05	-46.57	≤-30.05	PASS
		2437	Reference	-7.92	-7.92	---	PASS
			30~1000	-7.92	-54.8	≤-27.92	PASS
			1000~26500	-7.92	-45.47	≤-27.92	PASS
		2452	Reference	-7.98	-7.98	---	PASS
			30~1000	-7.98	-60.5	≤-27.98	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



			1000~26500	-7.98	-46.56	≤-27.98	PASS
--	--	--	------------	-------	--------	---------	------

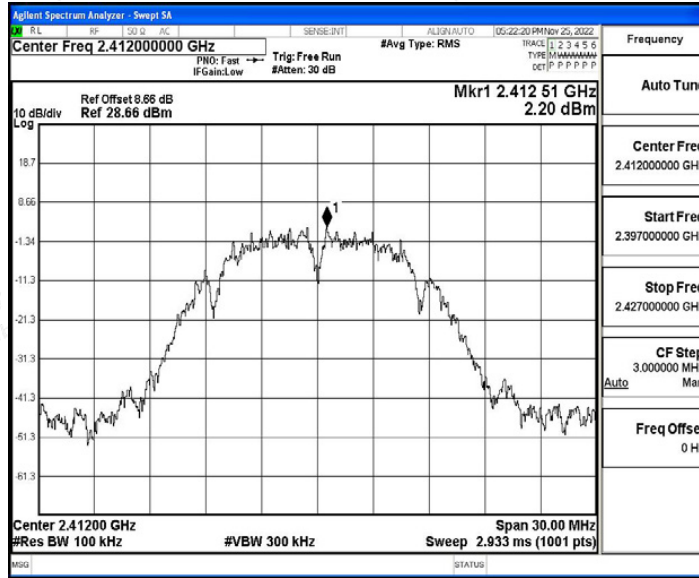


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

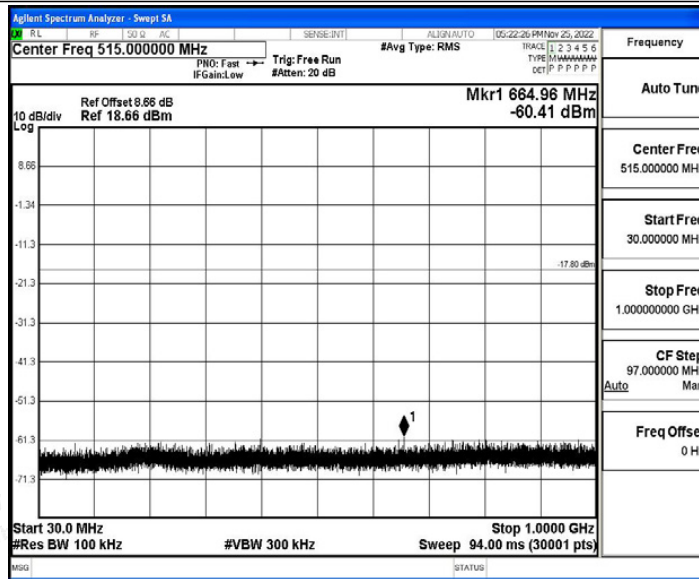


Test Graphs

11B_Ant1_2412_0~Reference

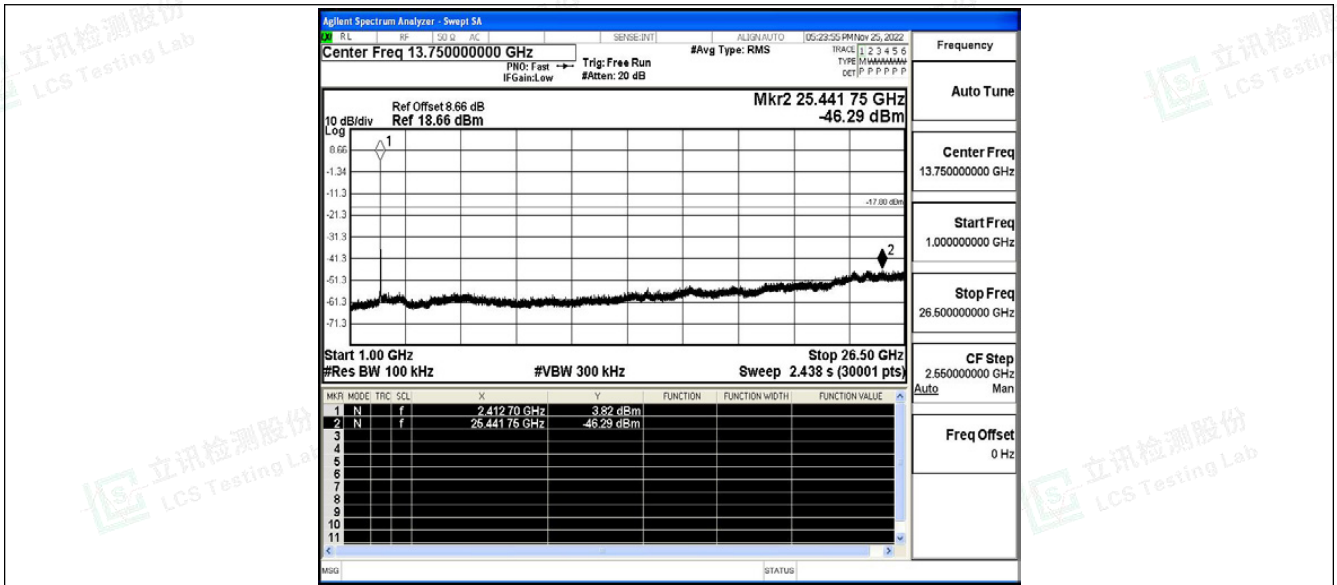


11B_Ant1_2412_30~1000

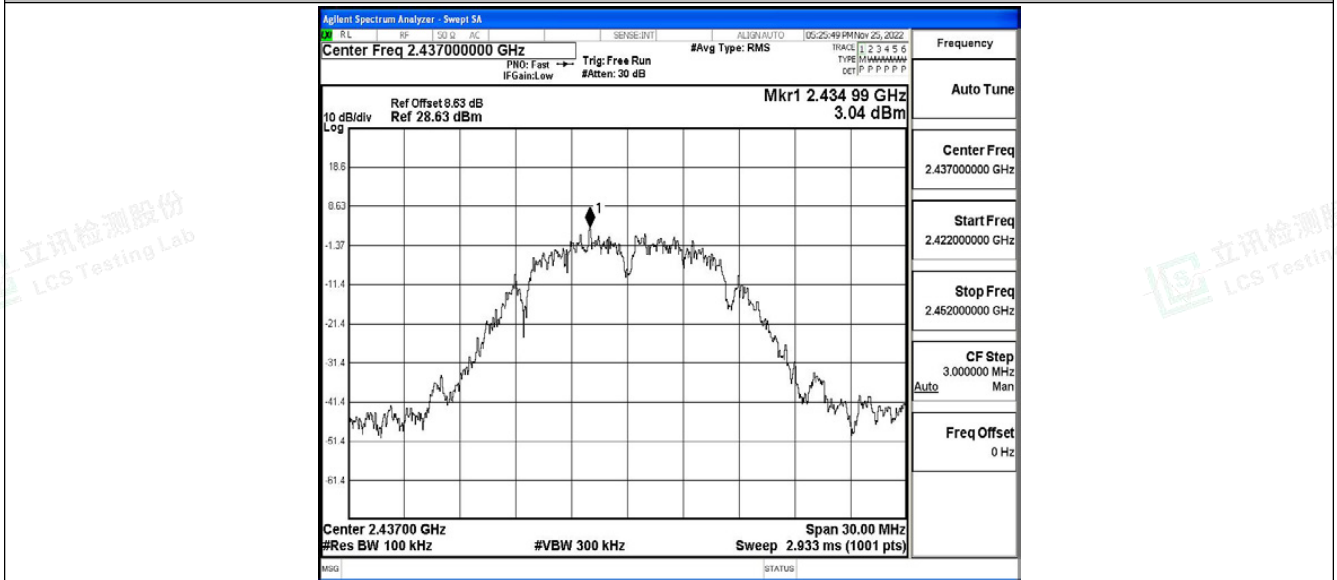


11B_Ant1_2412_1000~26500



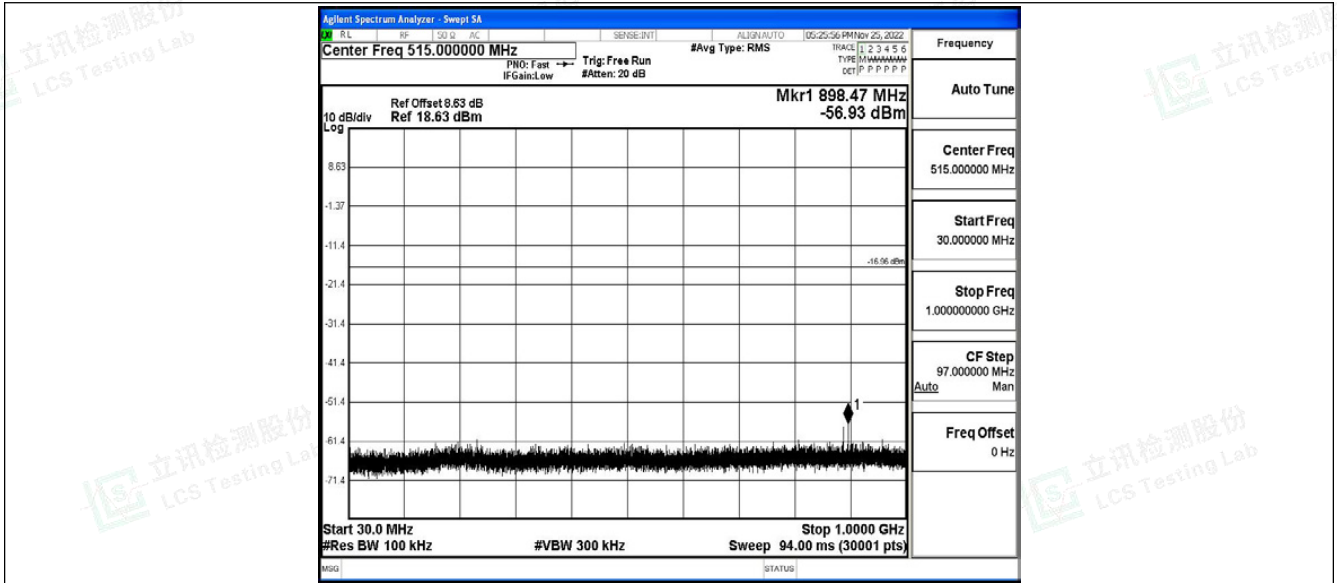


11B_Ant1_2437_0~Reference

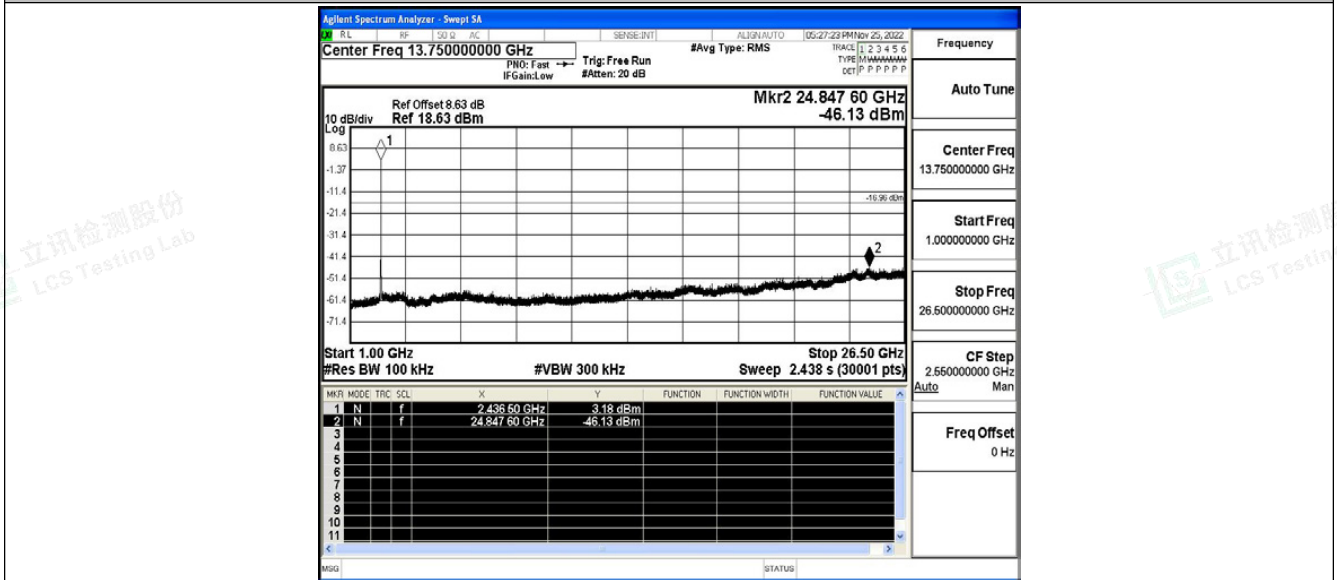


11B_Ant1_2437_30~1000



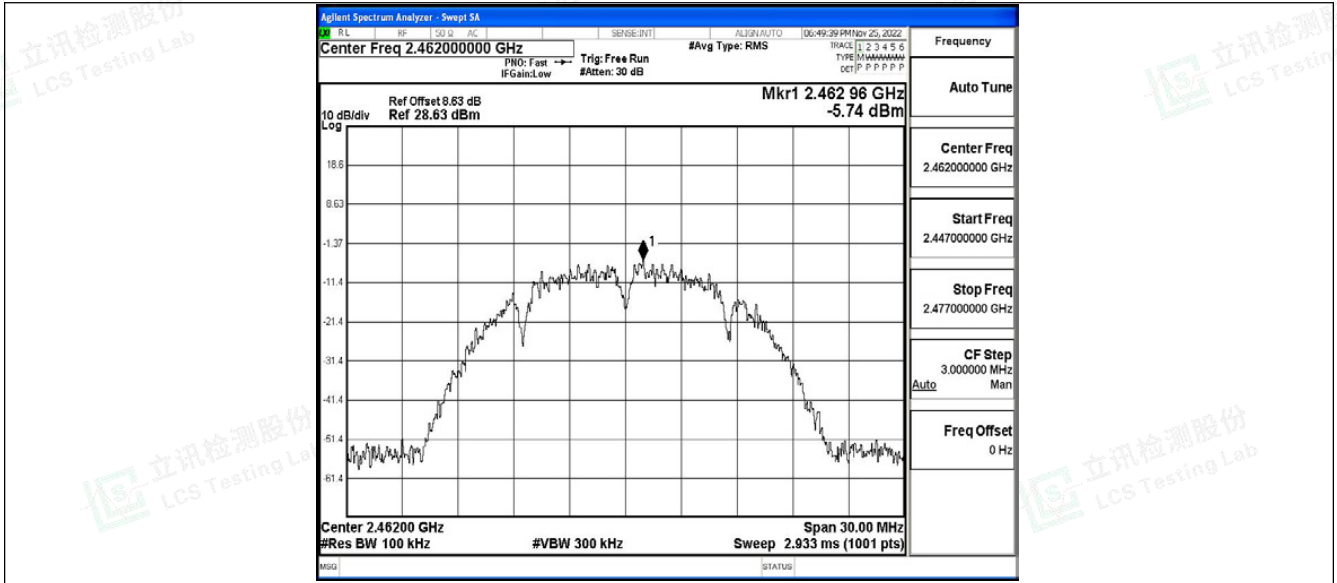


11B_Ant1_2437_1000~26500

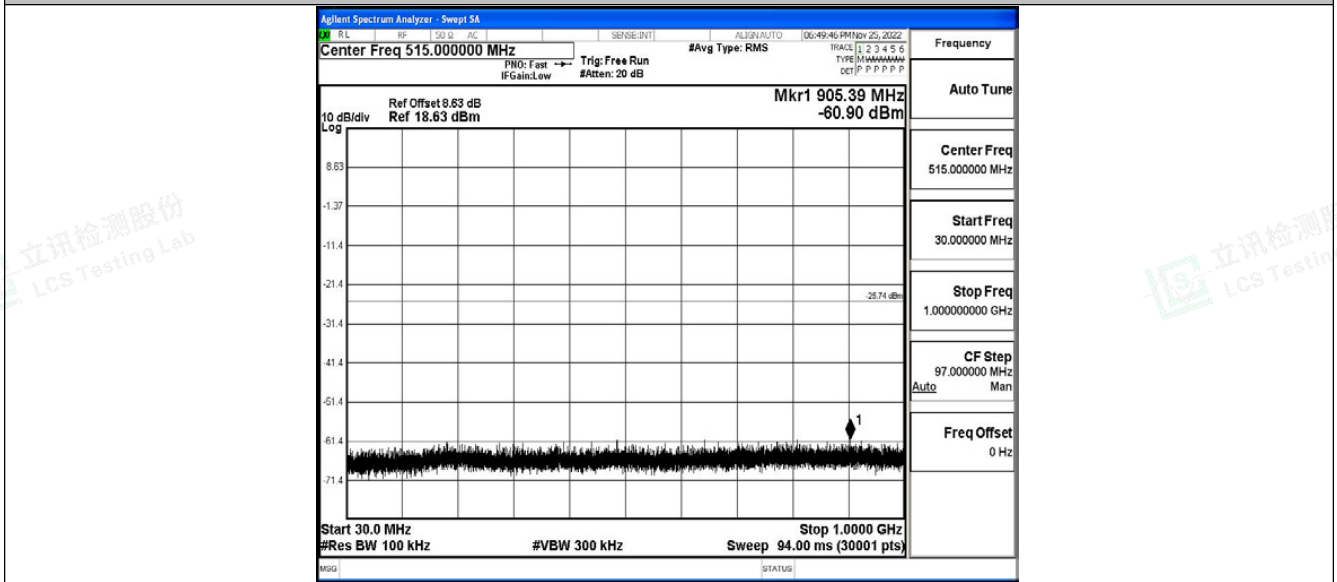


11B_Ant1_2462_0~Reference



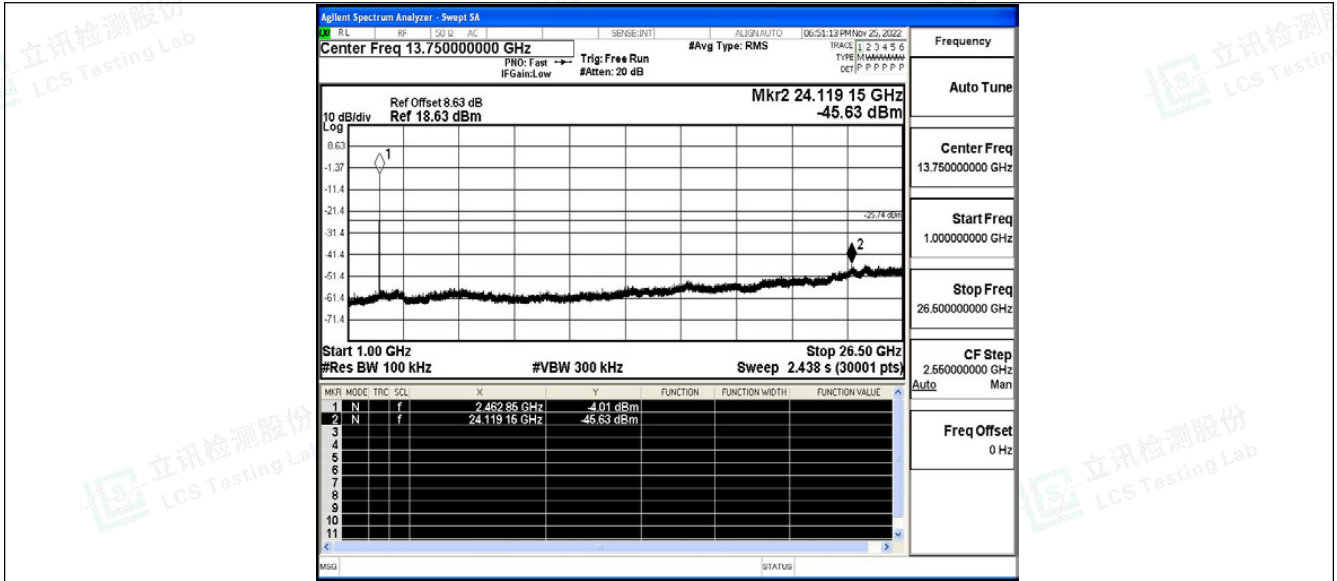


11B_Ant1_2462_30~1000

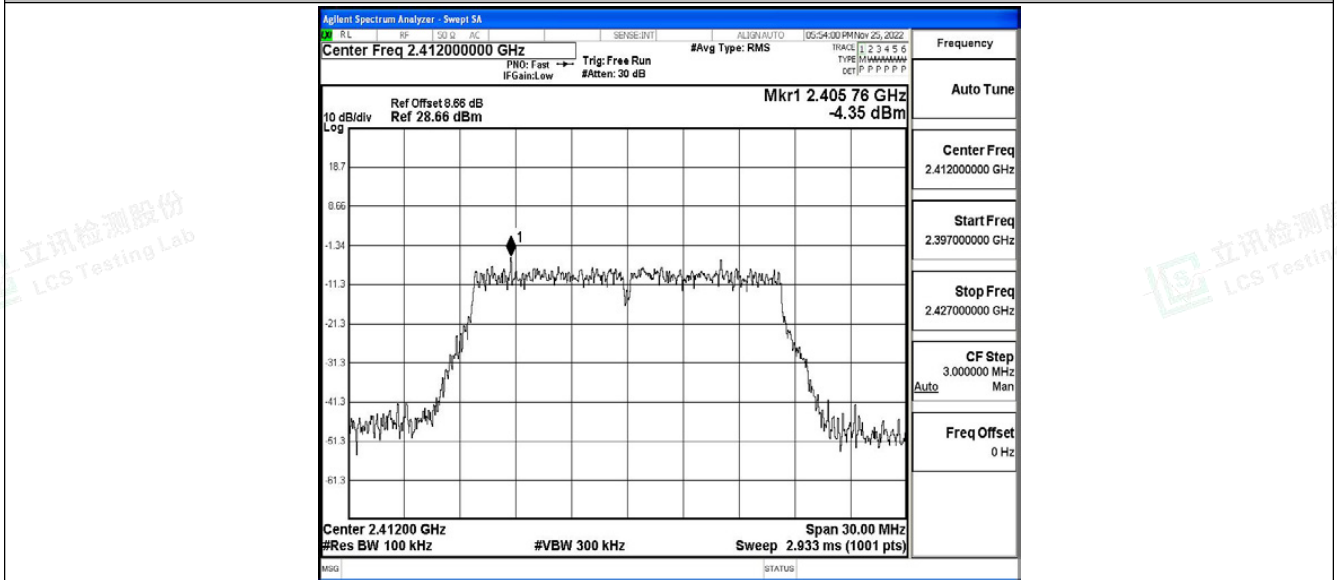


11B_Ant1_2462_1000~26500



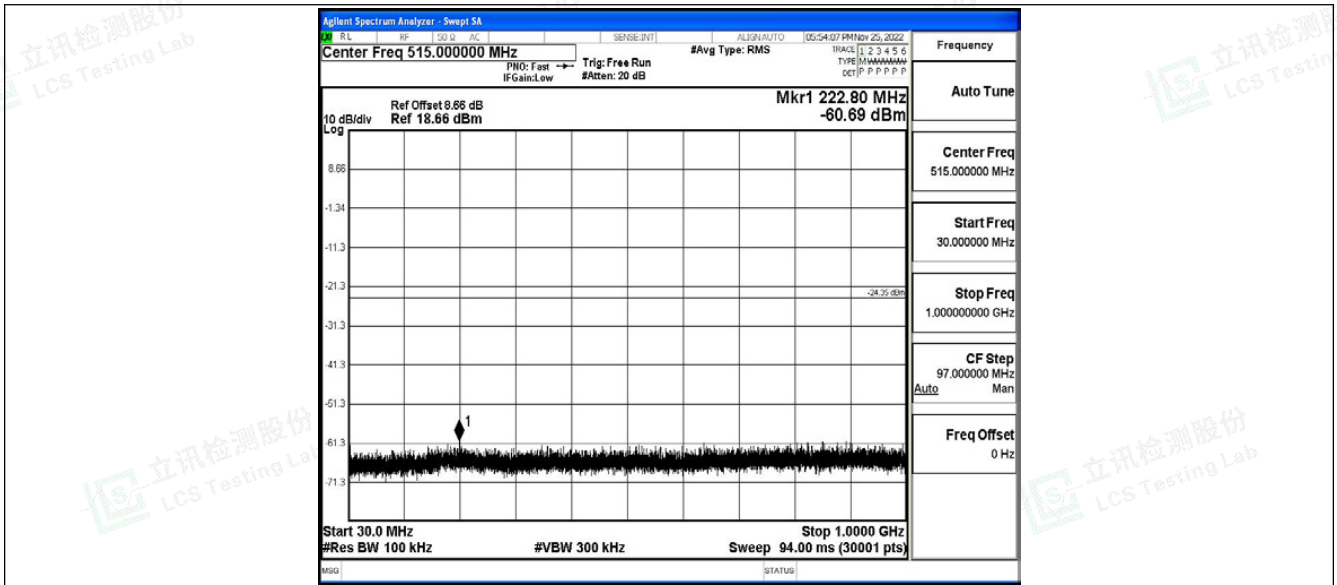


11G_Ant1_2412_0~Reference

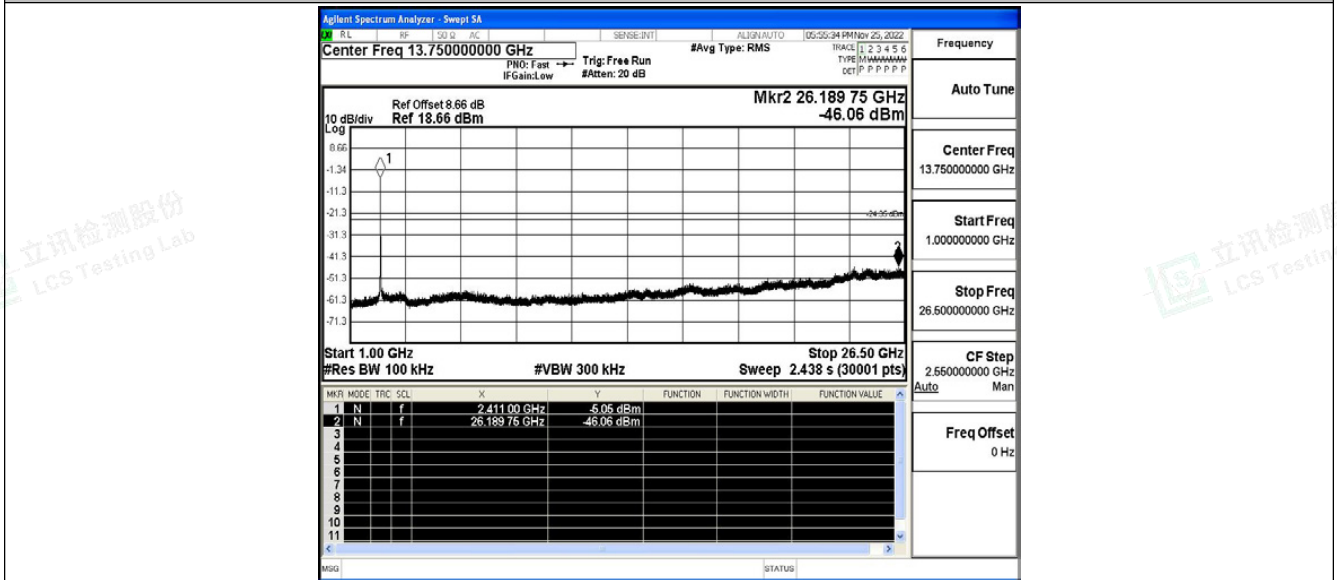


11G_Ant1_2412_30~1000



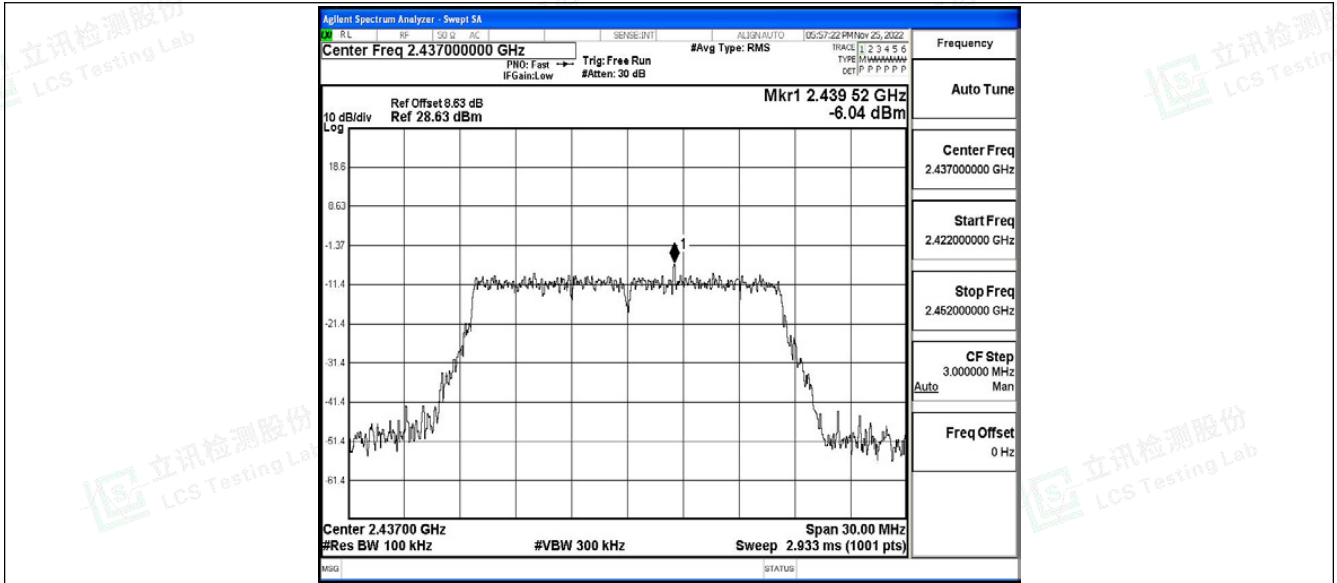


11G_Ant1_2412_1000~26500

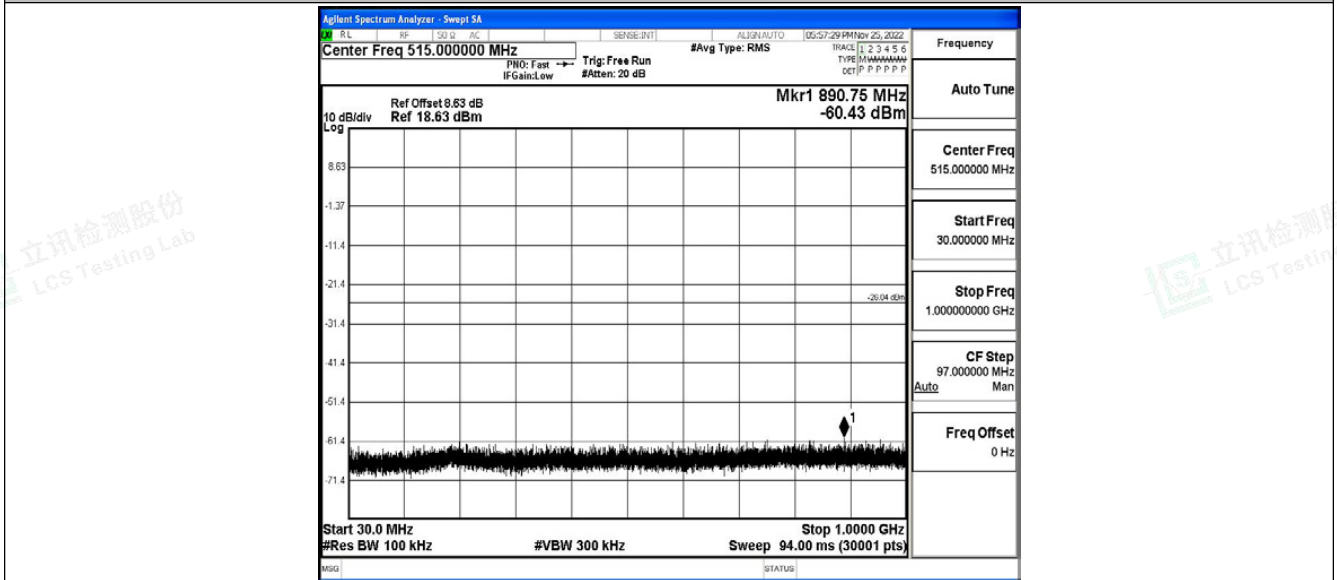


11G_Ant1_2437_0~Reference



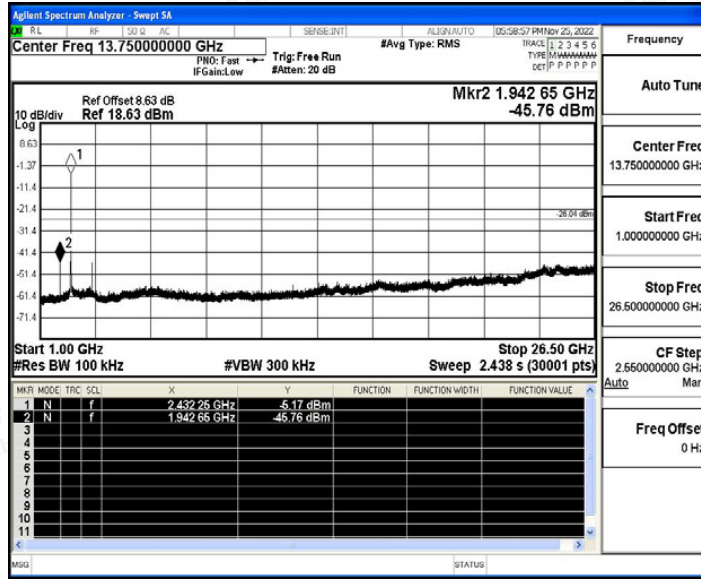


11G_Ant1_2437_30~1000

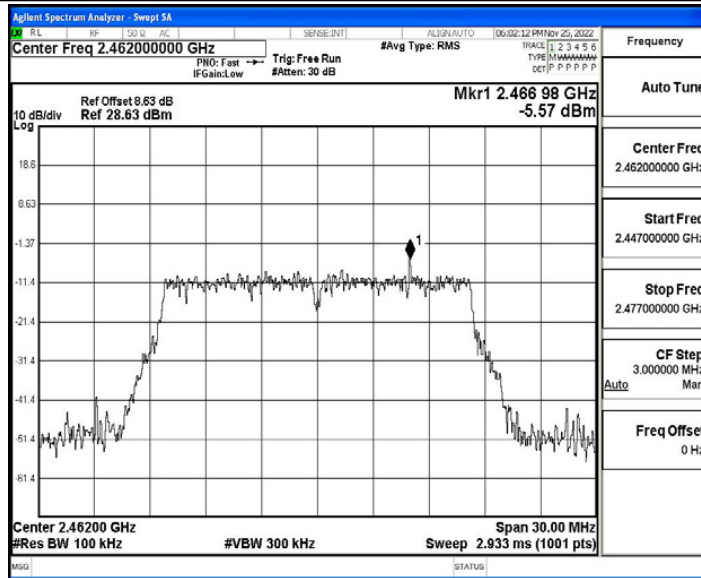


11G_Ant1_2437_1000~26500



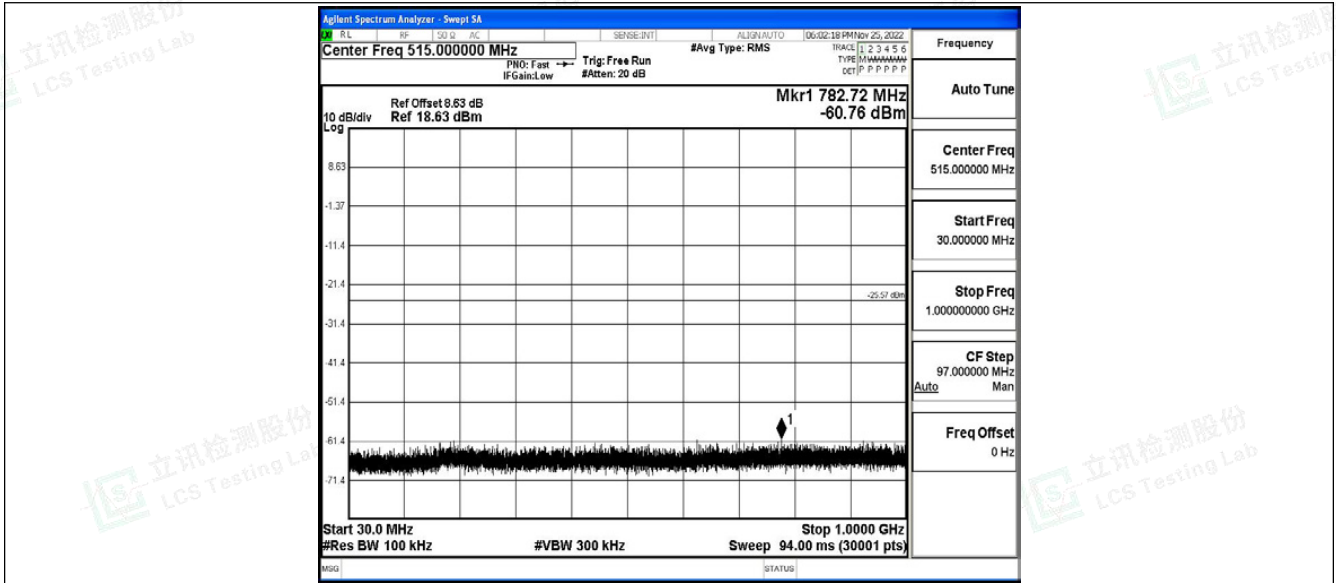


11G_Ant1_2462_0~Reference

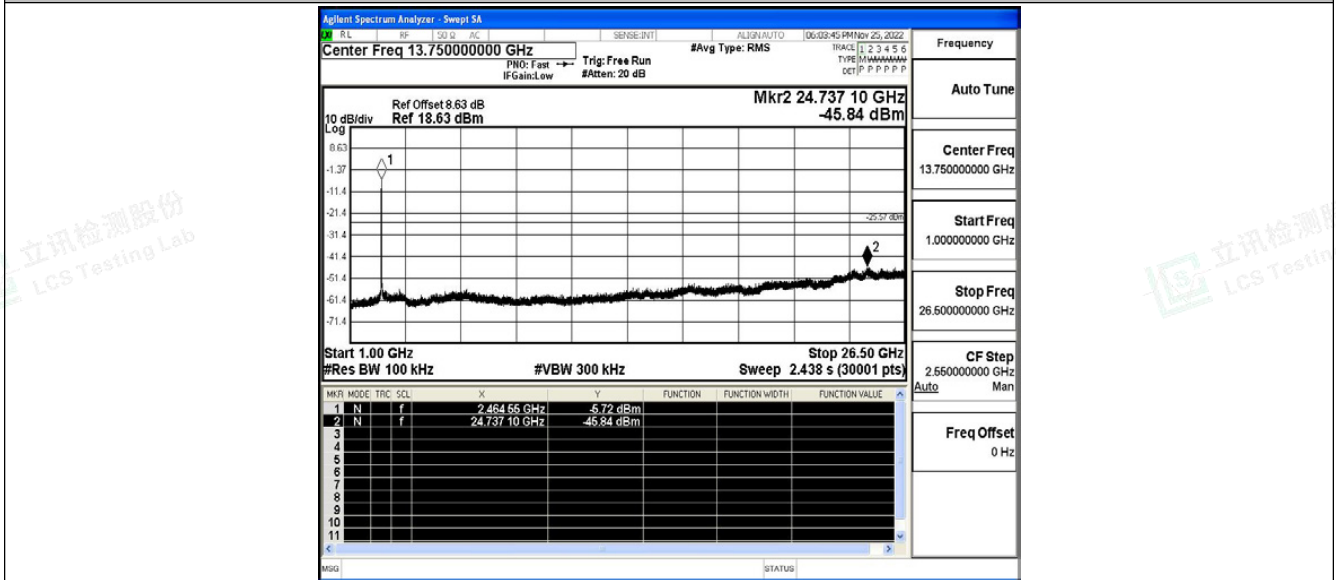


11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

