



## Appendix B

### RF Test Data for 2.4G(Conducted Measurement)

**Product Name:** Intelligent walking machine

**Test Model:** BA02

#### Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Li Huan





## B.1 DTS Bandwidth

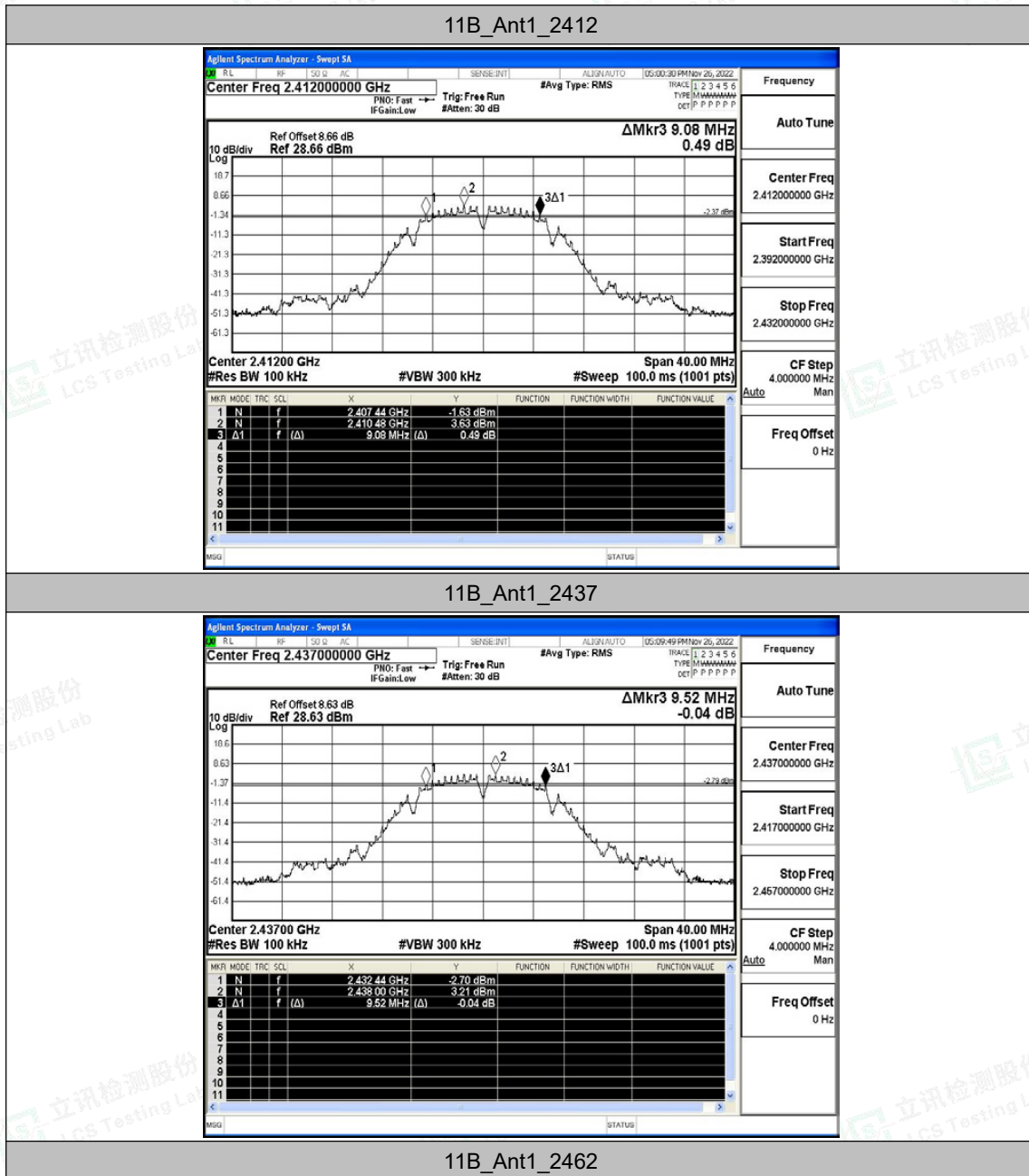
### Test Result

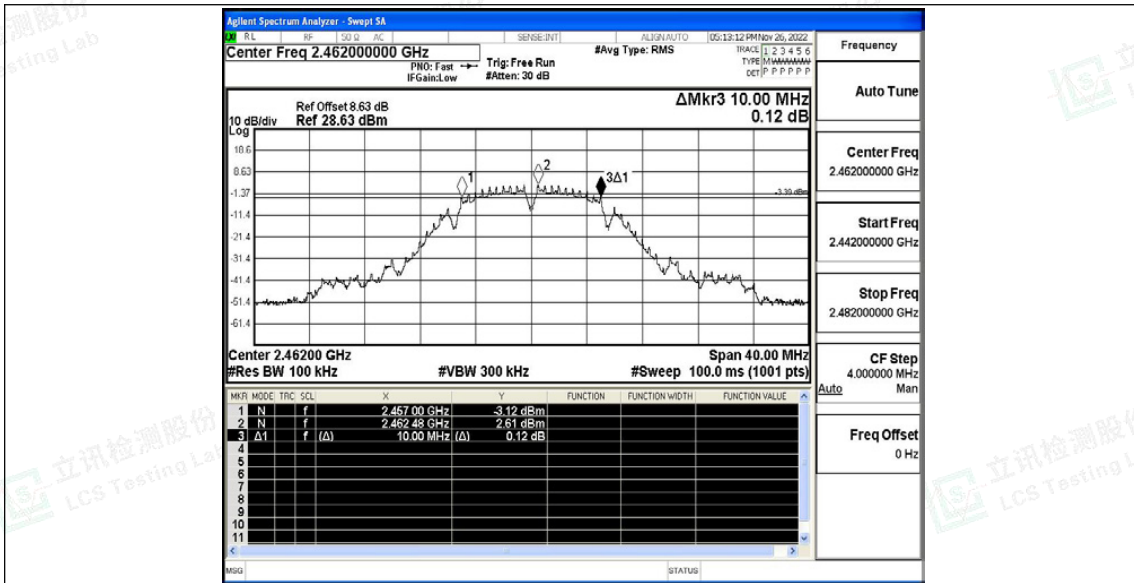
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.520	2432.440	2441.960	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	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	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	36.000	2419.160	2455.160	0.5	PASS
		2452	35.600	2434.240	2469.840	0.5	PASS



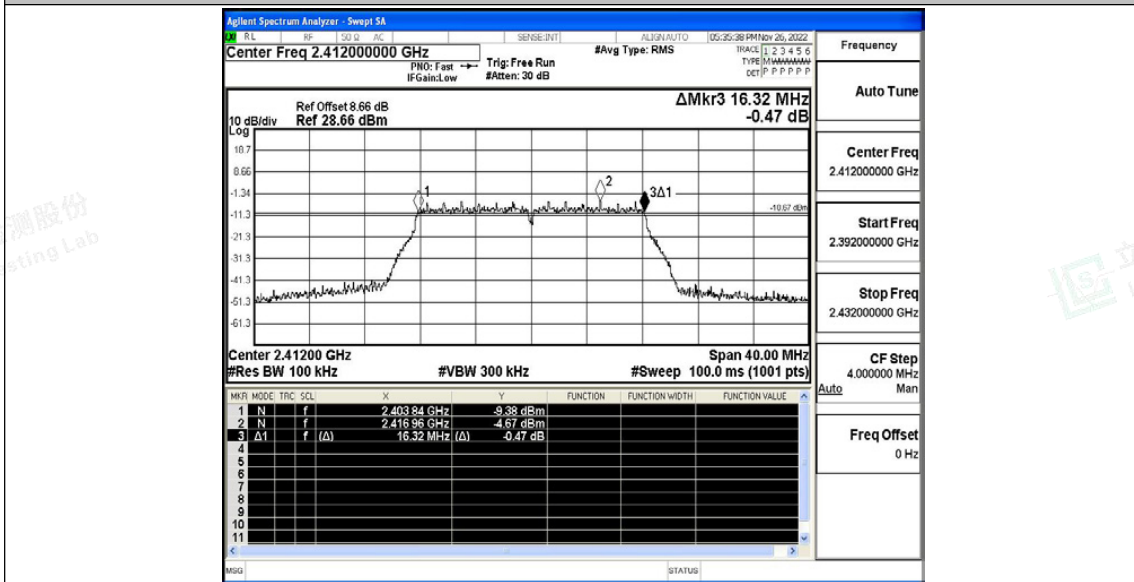


### Test Graphs



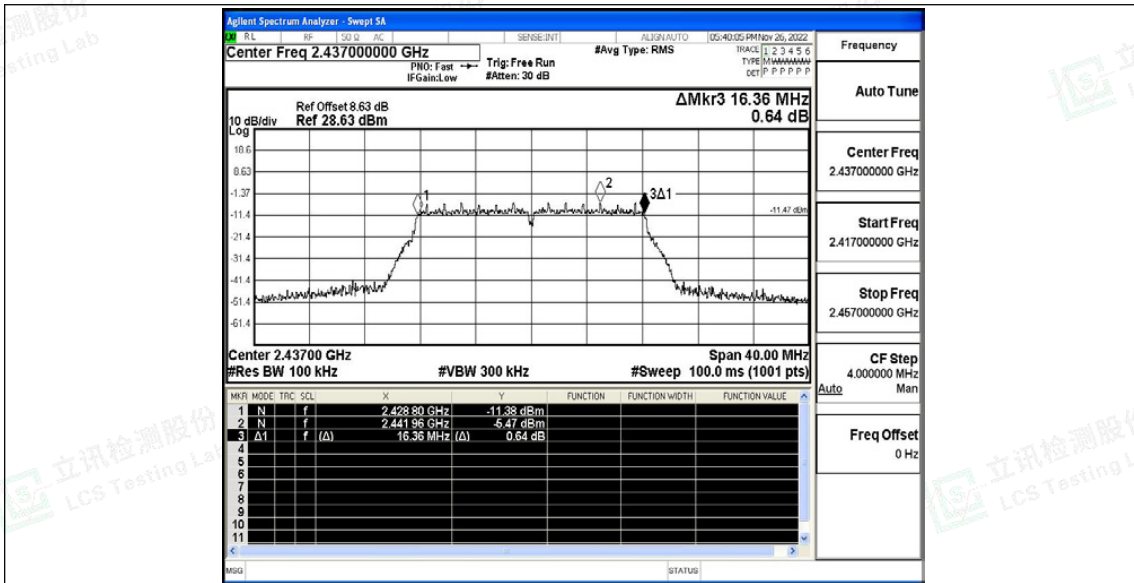


11G\_Ant1\_2412

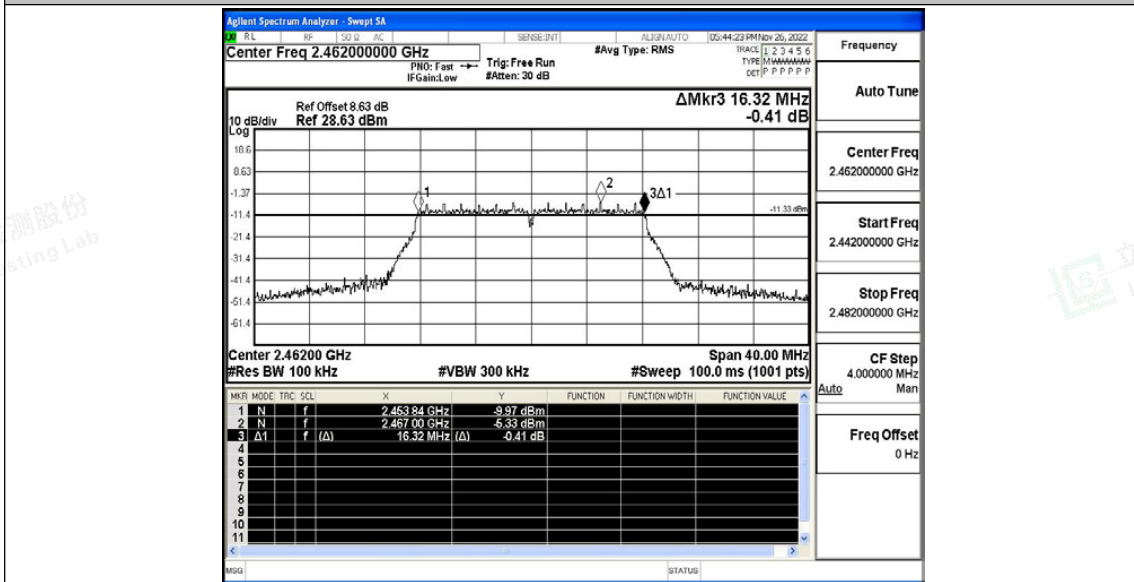


11G\_Ant1\_2437



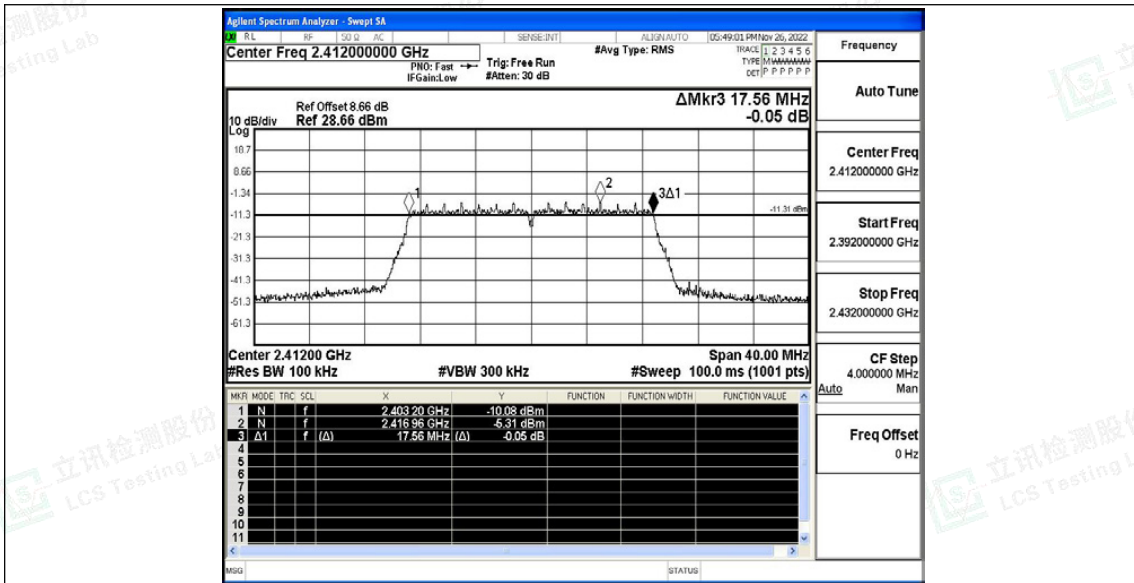


11G\_Ant1\_2462

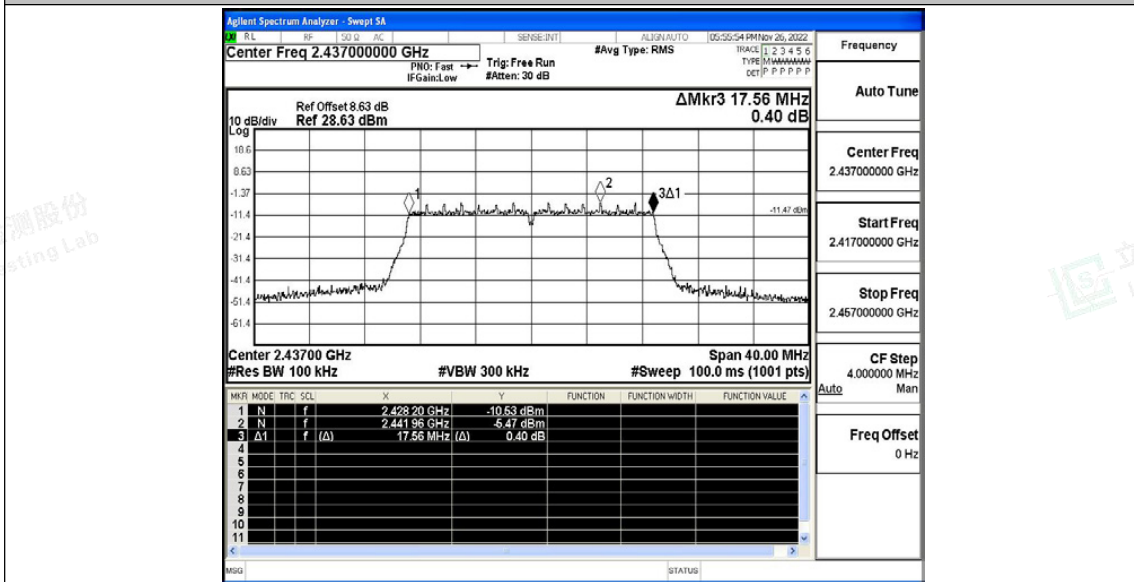


11N20SISO\_Ant1\_2412



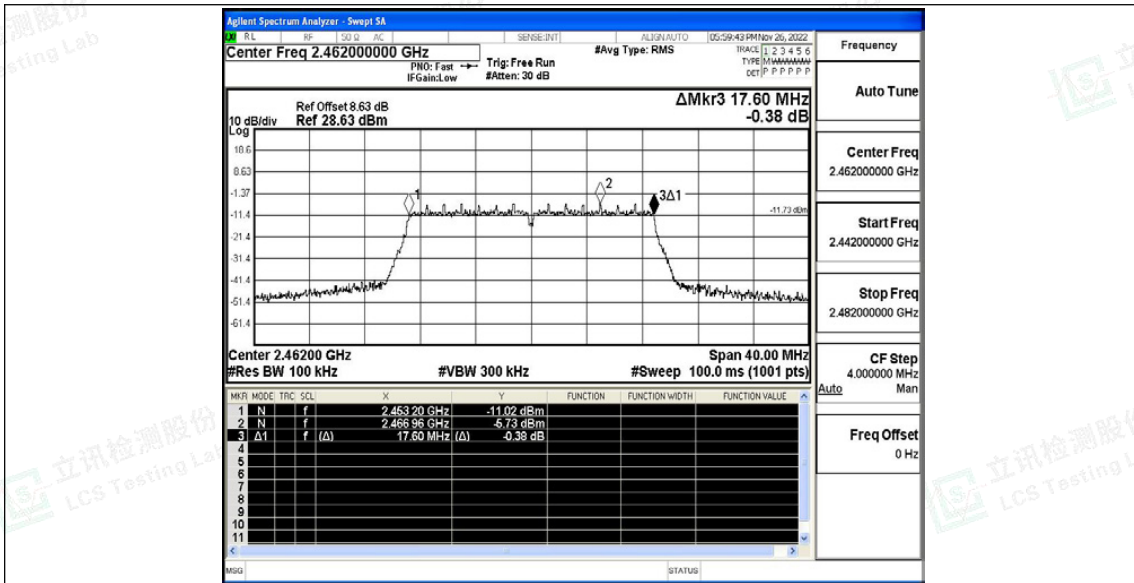


11N20SISO\_Ant1\_2437

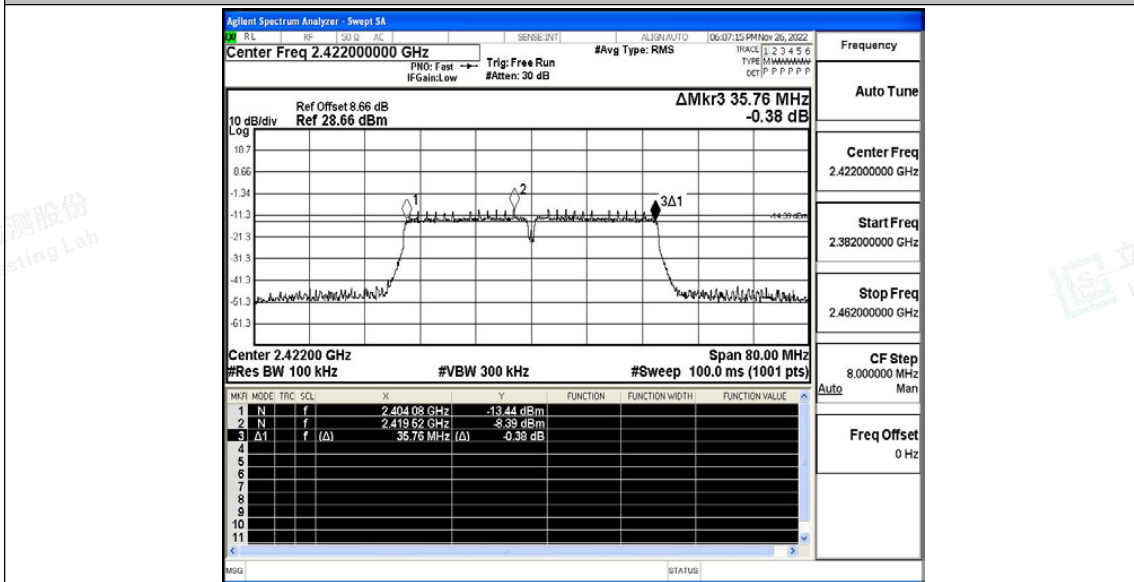


11N20SISO\_Ant1\_2462



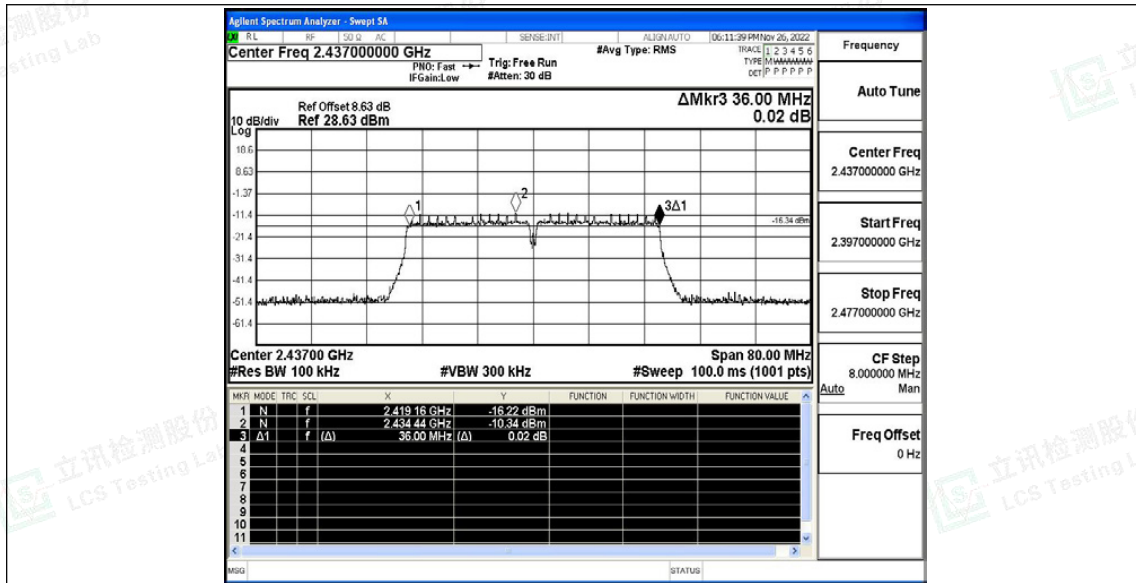


11N40SISO\_Ant1\_2422

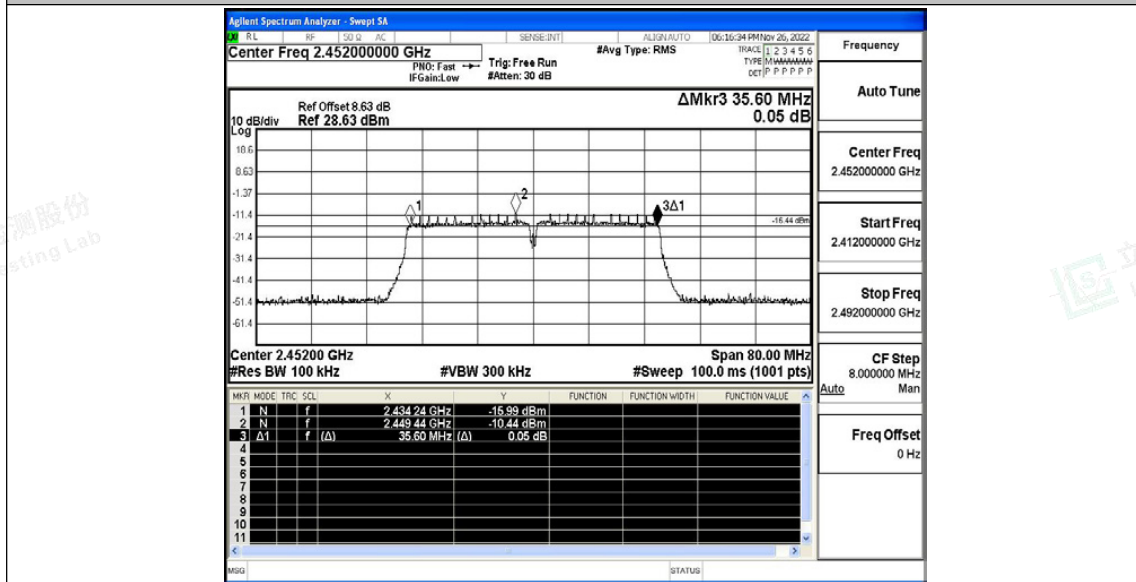


11N40SISO\_Ant1\_2437





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	15.40	≤30.00	PASS
		2437	15.16	≤30.00	PASS
		2462	14.66	≤30.00	PASS
11G	Ant1	2412	14.84	≤30.00	PASS
		2437	14.01	≤30.00	PASS
		2462	14.17	≤30.00	PASS
11N20SISO	Ant1	2412	14.28	≤30.00	PASS
		2437	14.02	≤30.00	PASS
		2462	13.70	≤30.00	PASS
11N40SISO	Ant1	2422	12.28	≤30.00	PASS
		2437	12.08	≤30.00	PASS
		2452	11.88	≤30.00	PASS





### B.3 Maximum power spectral density

#### Test Result

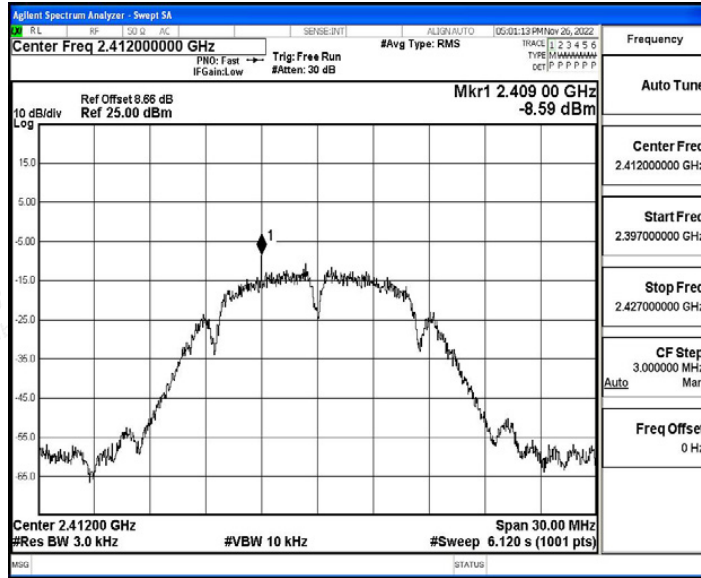
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.59	≤8.00	PASS
		2437	-11.17	≤8.00	PASS
		2462	-12.56	≤8.00	PASS
11G	Ant1	2412	-19.13	≤8.00	PASS
		2437	-19.7	≤8.00	PASS
		2462	-20.07	≤8.00	PASS
11N20SISO	Ant1	2412	-19.56	≤8.00	PASS
		2437	-19.91	≤8.00	PASS
		2462	-20.79	≤8.00	PASS
11N40SISO	Ant1	2422	-24.38	≤8.00	PASS
		2437	-24.5	≤8.00	PASS
		2452	-24.2	≤8.00	PASS



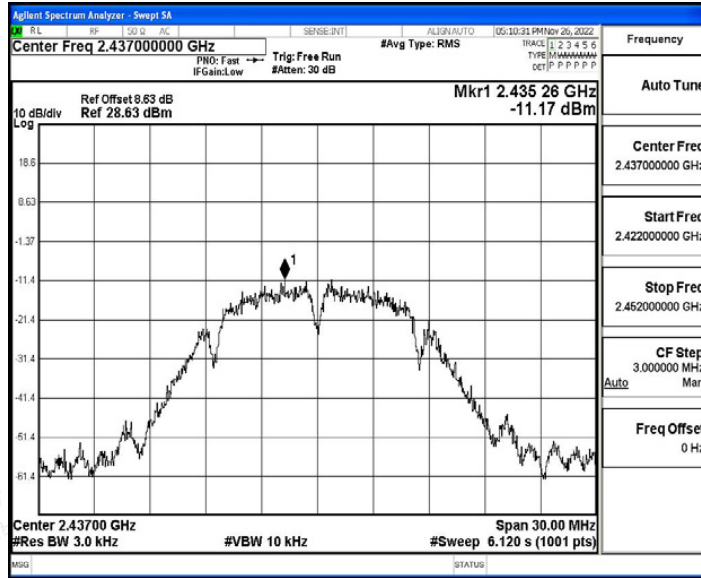


### Test Graphs

11B\_Ant1\_2412

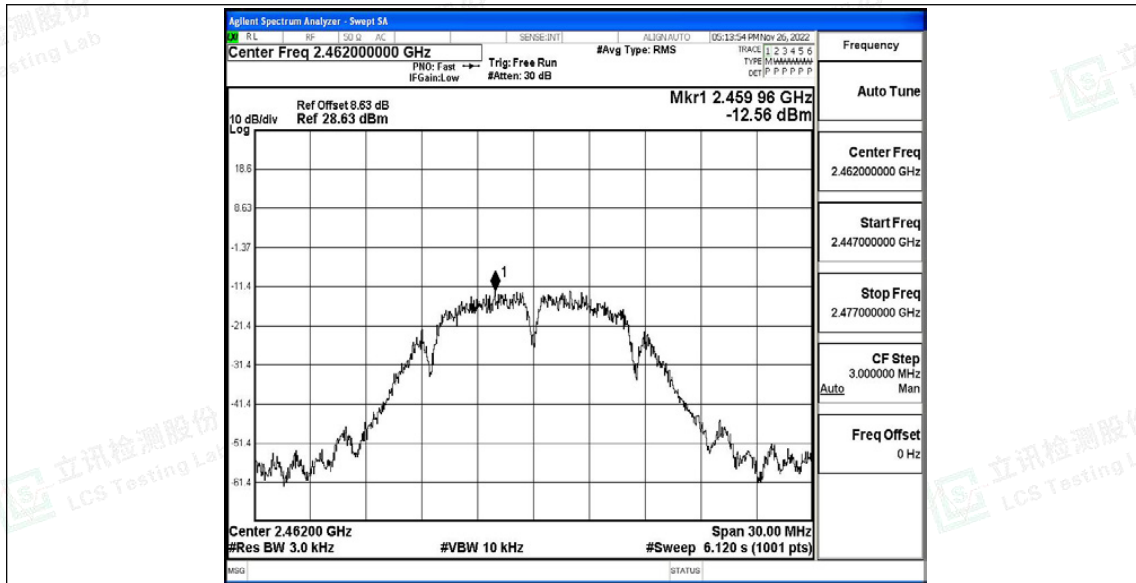


11B\_Ant1\_2437

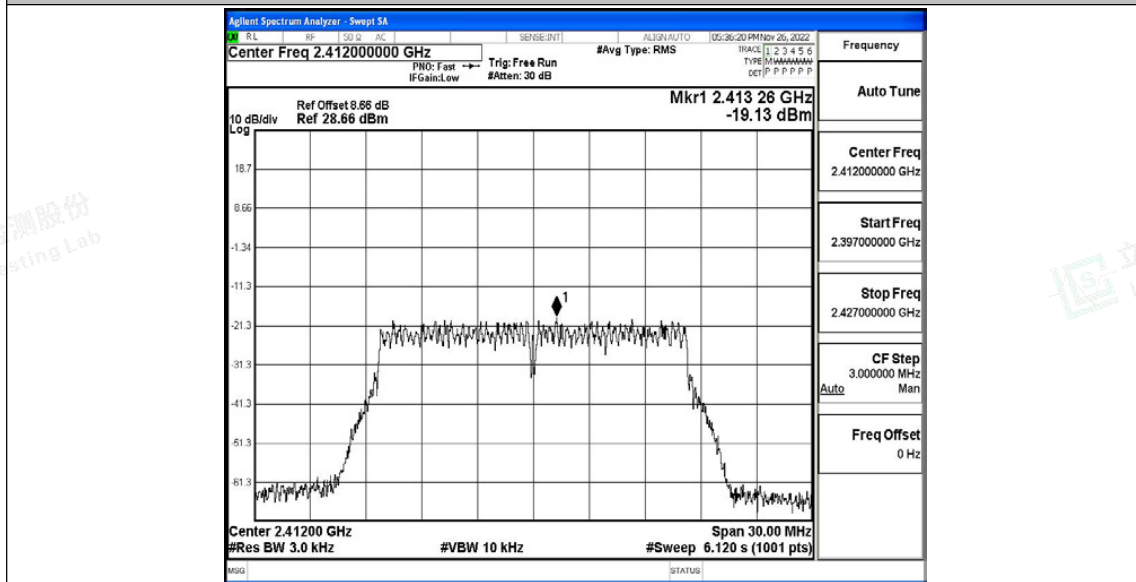


11B\_Ant1\_2462



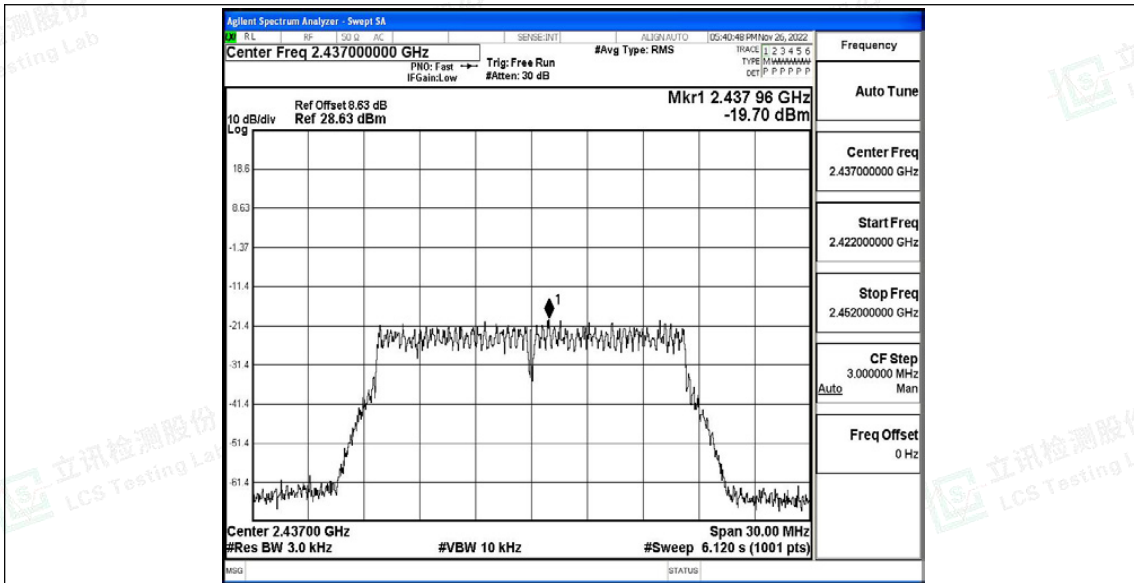


11G\_Ant1\_2412

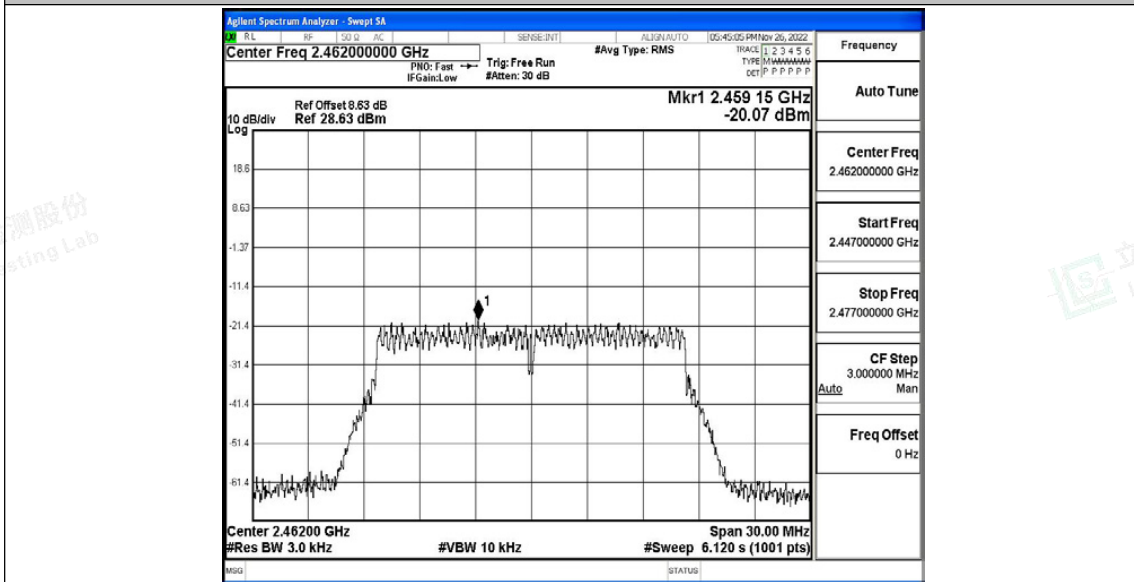


11G\_Ant1\_2437



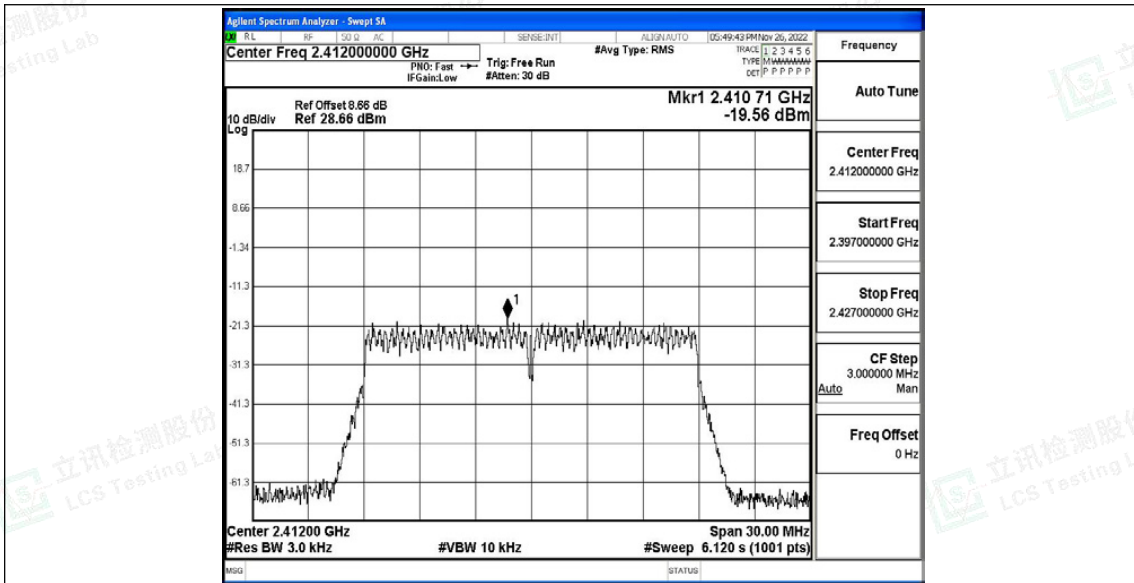


11G\_Ant1\_2462

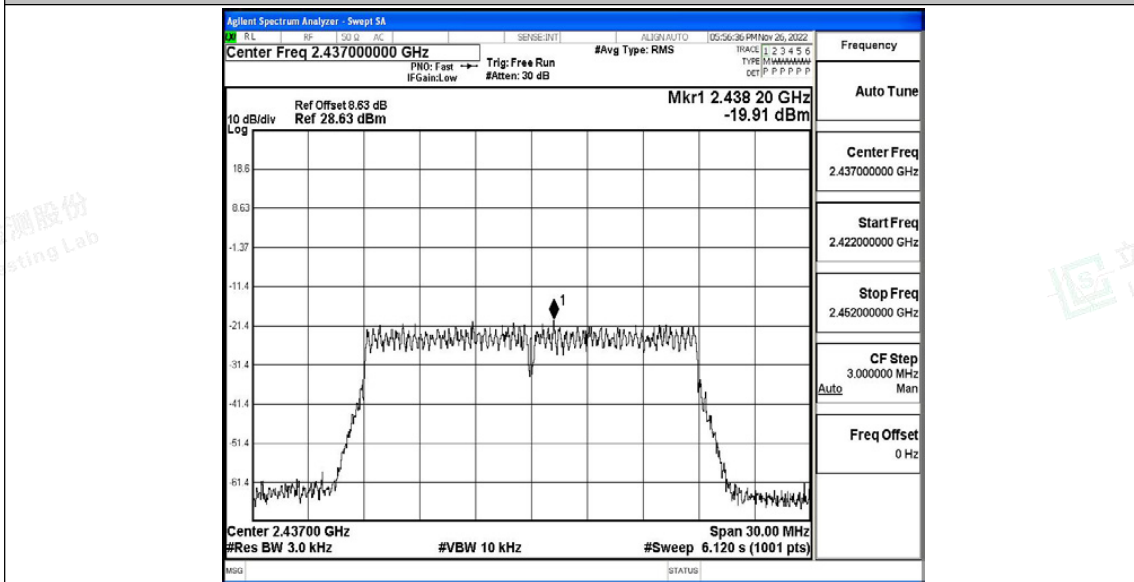


11N20SISO\_Ant1\_2412



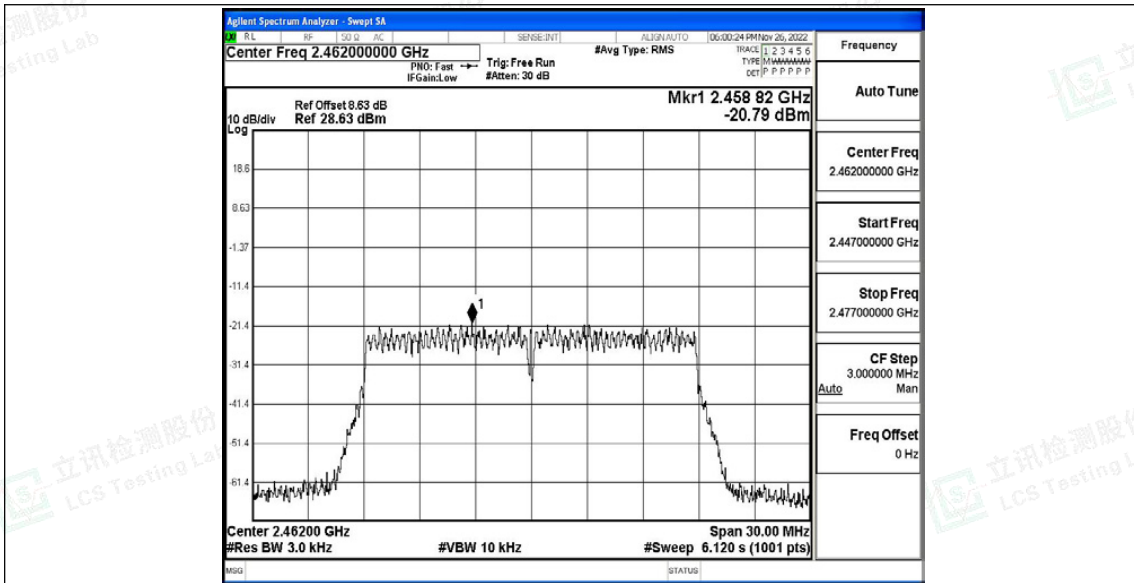


11N20SISO\_Ant1\_2437

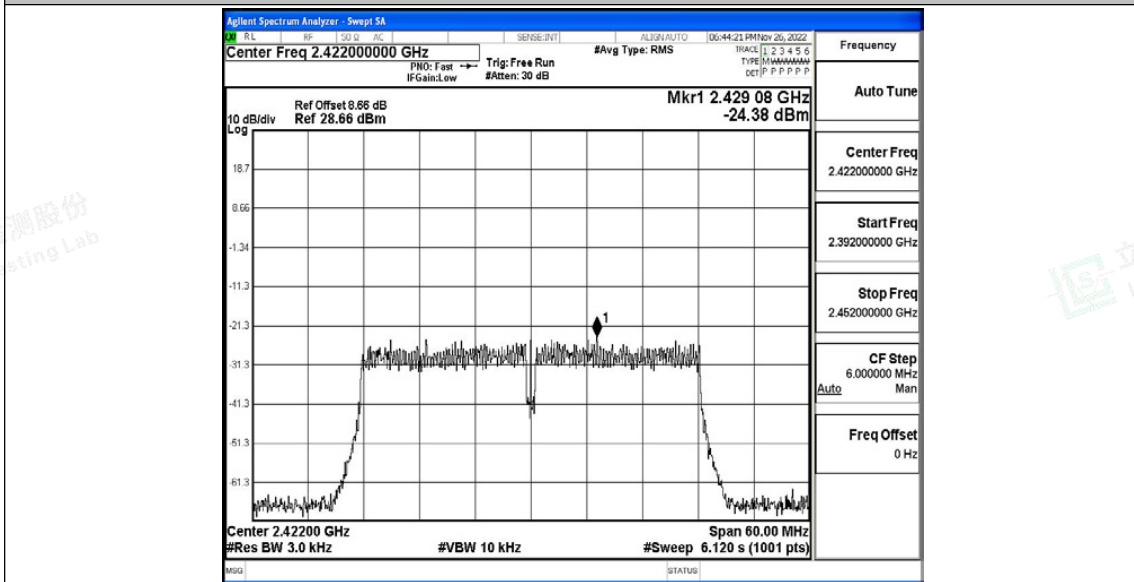


11N20SISO\_Ant1\_2462



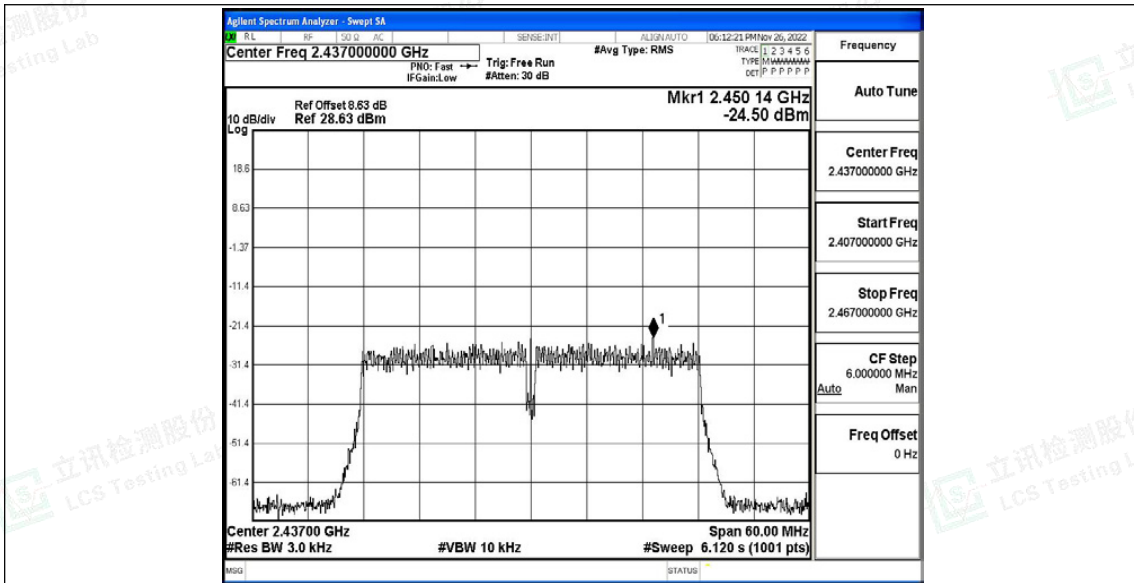


11N40SISO\_Ant1\_2422

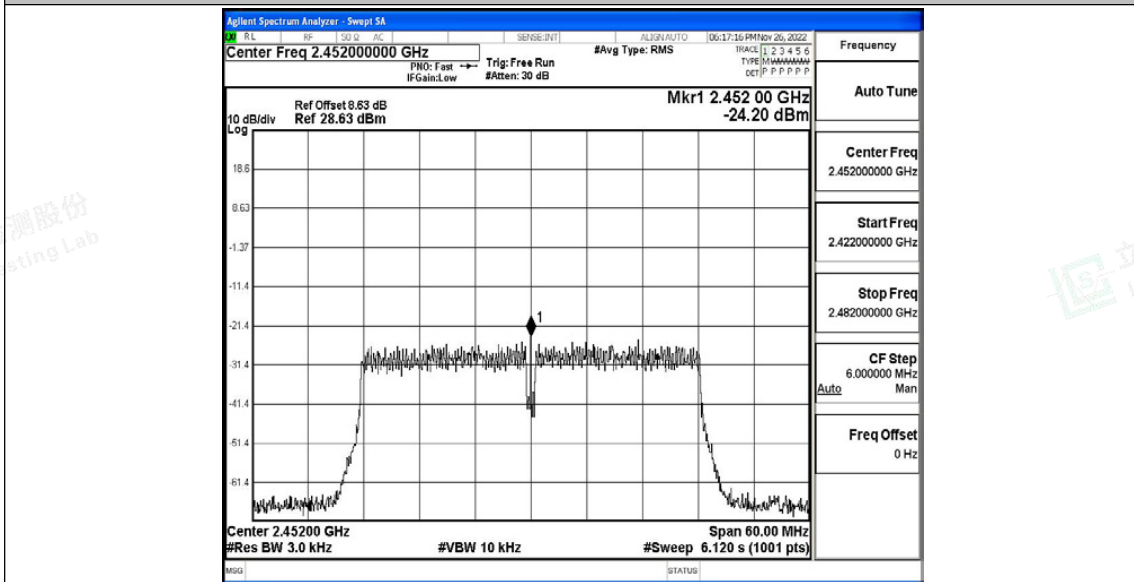


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452







## B.4 Band edge measurements

### Test Result

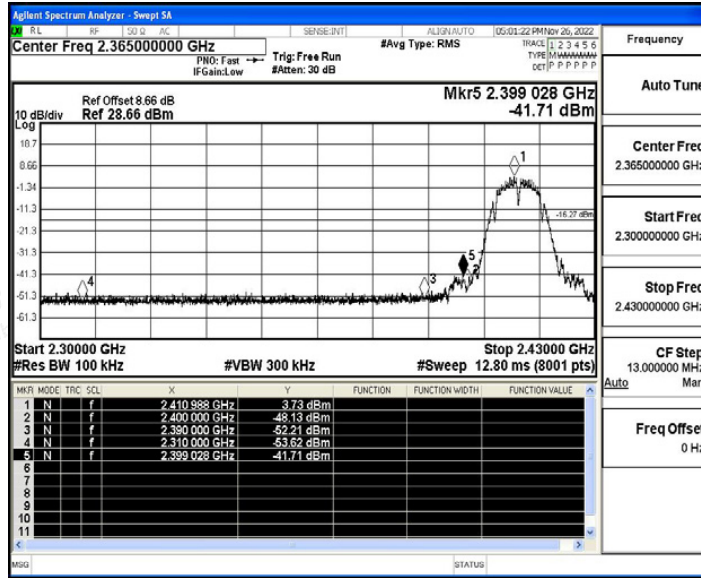
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.73	-41.71	≤-16.27	PASS
		High	2462	2.98	-48.48	≤-17.02	PASS
11G	Ant1	Low	2412	-4.87	-43.77	≤-24.87	PASS
		High	2462	-5.25	-48.78	≤-25.25	PASS
11N20SISO	Ant1	Low	2412	-4.78	-44.6	≤-24.78	PASS
		High	2462	-5.67	-47.47	≤-25.67	PASS
11N40SISO	Ant1	Low	2422	-8.26	-44.97	≤-28.26	PASS
		High	2452	-10.41	-48.08	≤-30.41	PASS



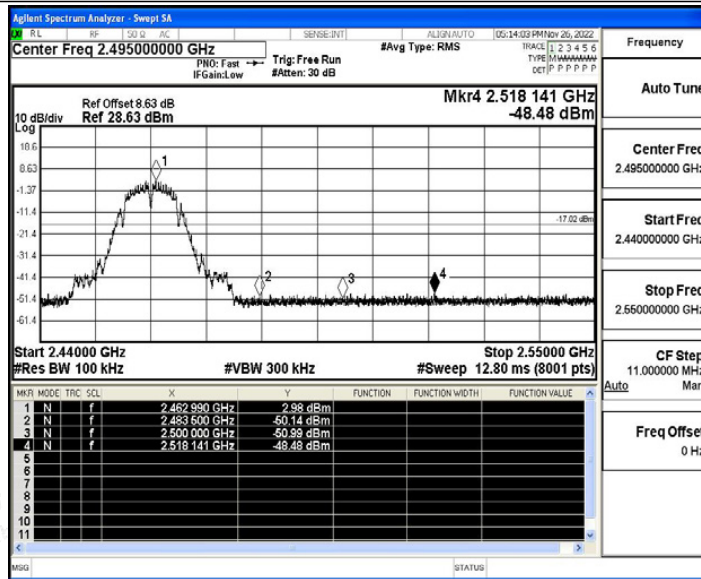


### Test Graphs

#### 11B\_Ant1\_Low\_2412

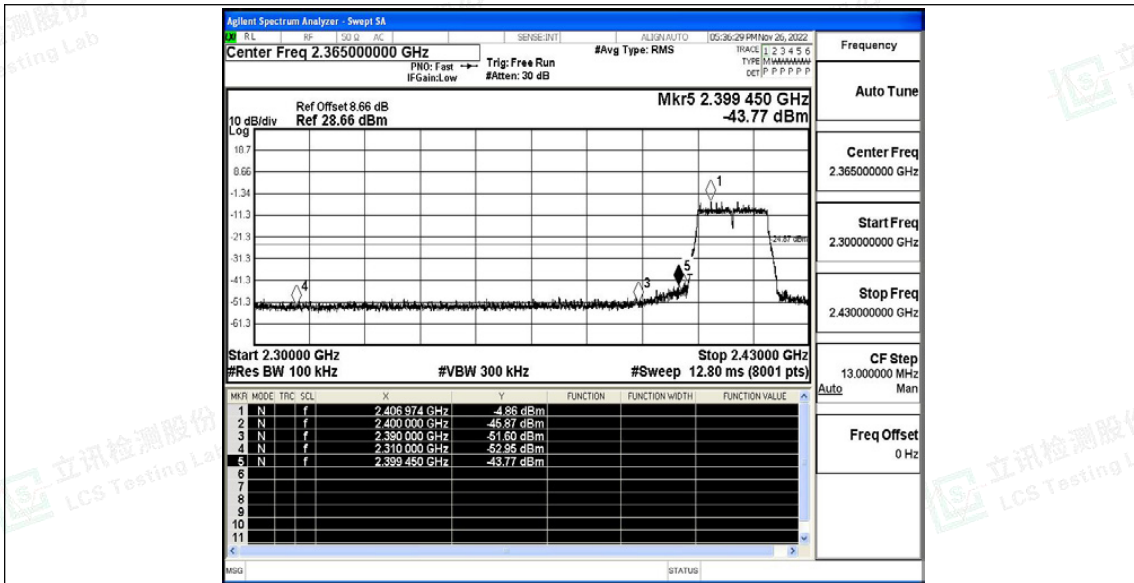


#### 11B\_Ant1\_High\_2462

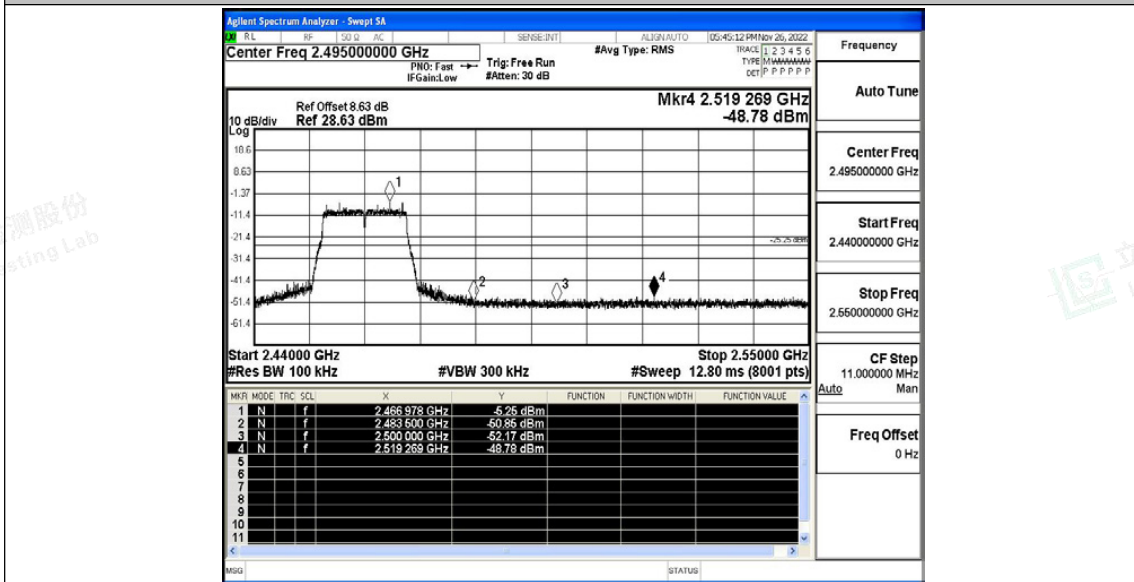


#### 11G\_Ant1\_Low\_2412



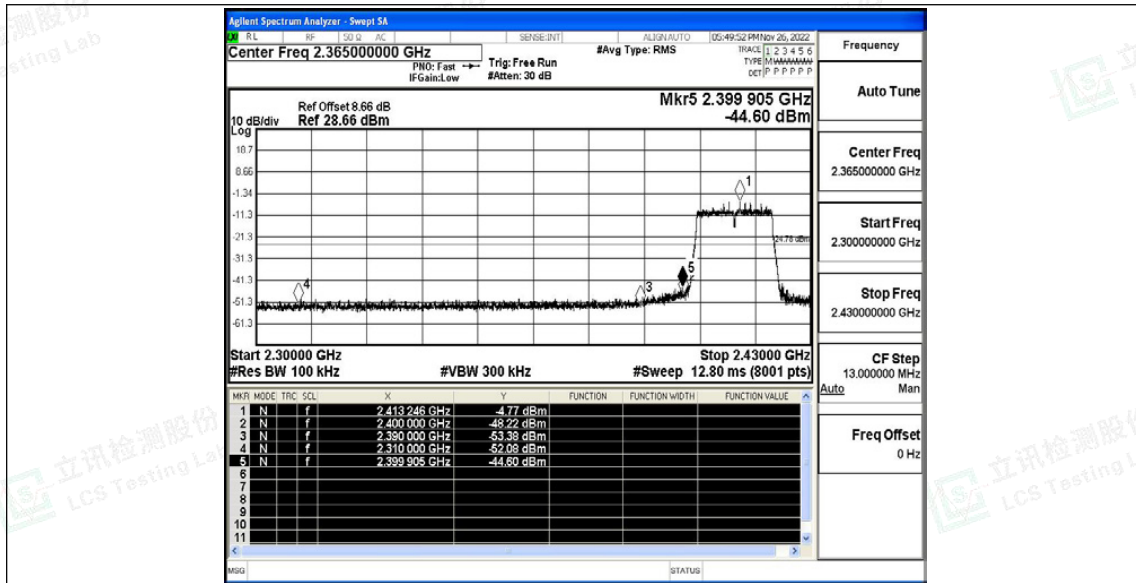


11G\_Ant1\_High\_2462

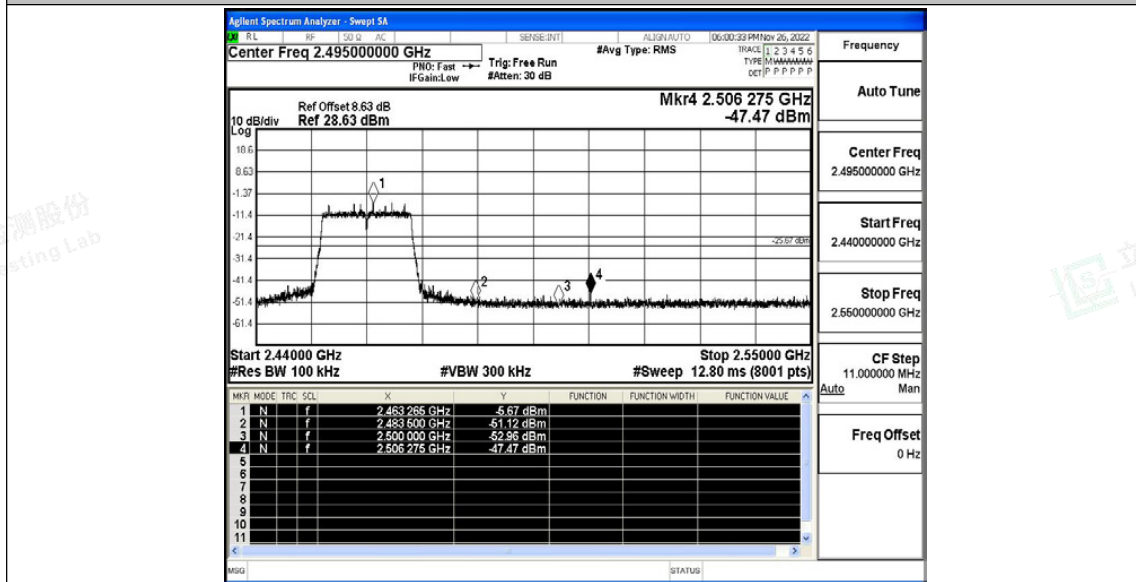


11N20SISO\_Ant1\_Low\_2412



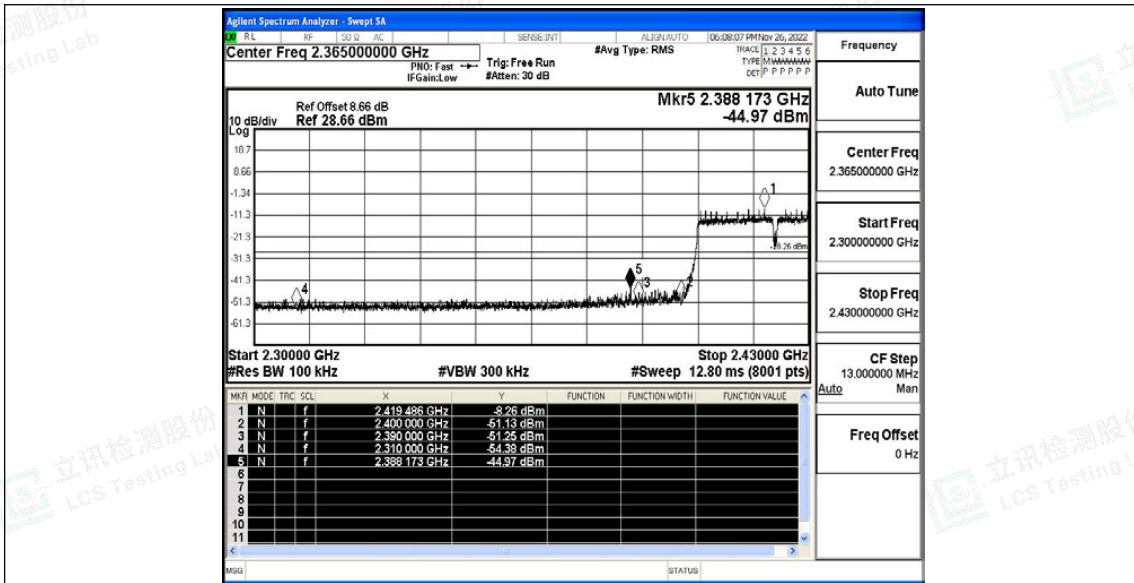


11N20SISO\_Ant1\_High\_2462

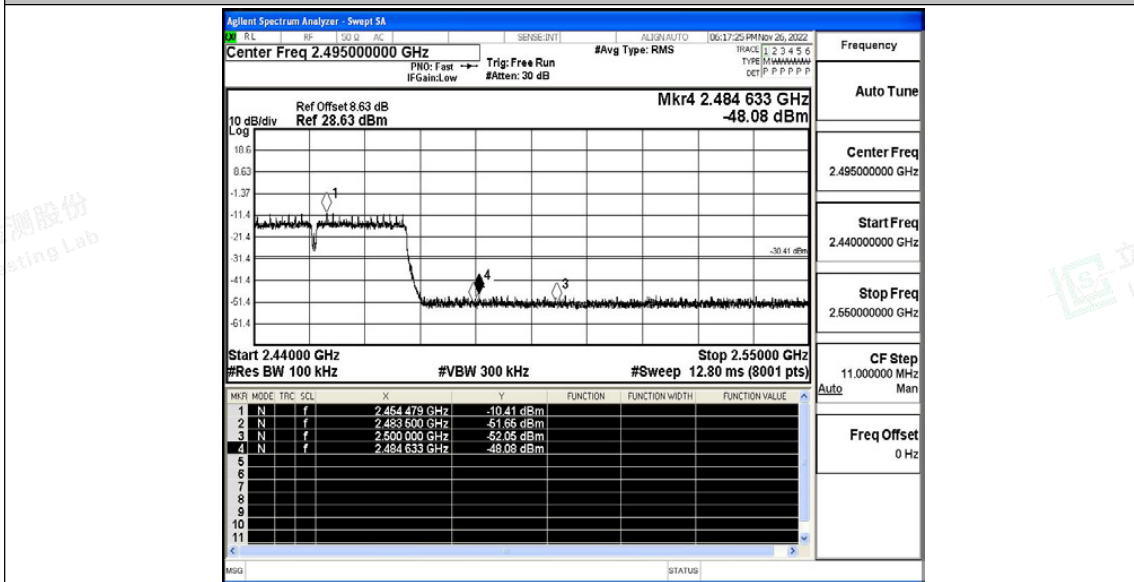


11N40SISO\_Ant1\_Low\_2422





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	2.57	2.57	---	PASS
			30~1000	2.57	-54.72	≤-17.43	PASS
			1000~26500	2.57	-45.7	≤-17.43	PASS
		2437	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-50.68	≤-18.75	PASS
			1000~26500	1.25	-46.3	≤-18.75	PASS
		2462	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-60.88	≤-18.94	PASS
			1000~26500	1.06	-46.25	≤-18.94	PASS
11G	Ant1	2412	Reference	-7.45	-7.45	---	PASS
			30~1000	-7.45	-61.17	≤-27.45	PASS
			1000~26500	-7.45	-46.61	≤-27.45	PASS
		2437	Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-60.61	≤-26.82	PASS
			1000~26500	-6.82	-46.59	≤-26.82	PASS
		2462	Reference	-6.85	-6.85	---	PASS
			30~1000	-6.85	-60.21	≤-26.85	PASS
			1000~26500	-6.85	-45.65	≤-26.85	PASS
11N20SISO	Ant1	2412	Reference	-5.90	-5.90	---	PASS
			30~1000	-5.90	-57.15	≤-25.9	PASS
			1000~26500	-5.90	-45.83	≤-25.9	PASS
		2437	Reference	-8.55	-8.55	---	PASS
			30~1000	-8.55	-60.59	≤-28.55	PASS
			1000~26500	-8.55	-46.25	≤-28.55	PASS
		2462	Reference	-8.08	-8.08	---	PASS
			30~1000	-8.08	-60.2	≤-28.08	PASS
			1000~26500	-8.08	-46.55	≤-28.08	PASS
11N40SISO	Ant1	2422	Reference	-8.95	-8.95	---	PASS
			30~1000	-8.95	-61.15	≤-28.95	PASS
			1000~26500	-8.95	-46.44	≤-28.95	PASS
		2437	Reference	-10.16	-10.16	---	PASS
			30~1000	-10.16	-60.51	≤-30.16	PASS
			1000~26500	-10.16	-46.15	≤-30.16	PASS
		2452	Reference	-10.99	-10.99	---	PASS
			30~1000	-10.99	-60.47	≤-30.99	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 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	-10.99	-45.96	≤-30.99	PASS
--	--	--	------------	--------	--------	---------	------



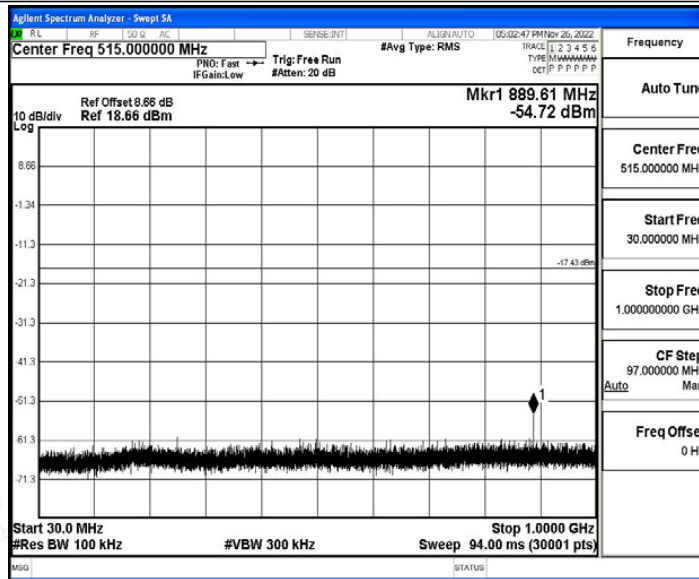


### Test Graphs

11B\_Ant1\_2412\_0~Reference



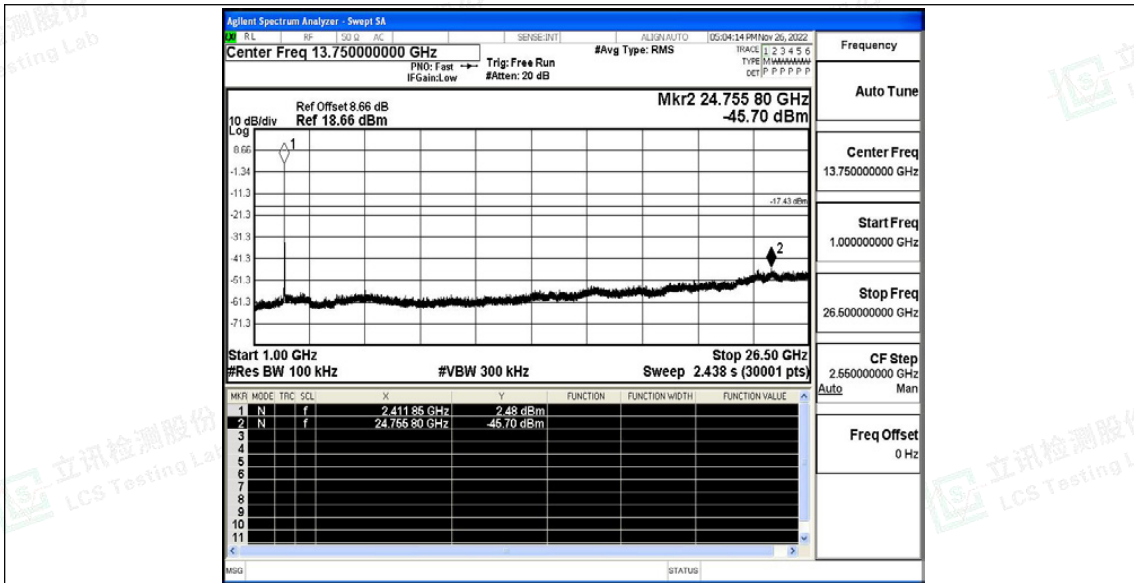
11B\_Ant1\_2412\_30~1000



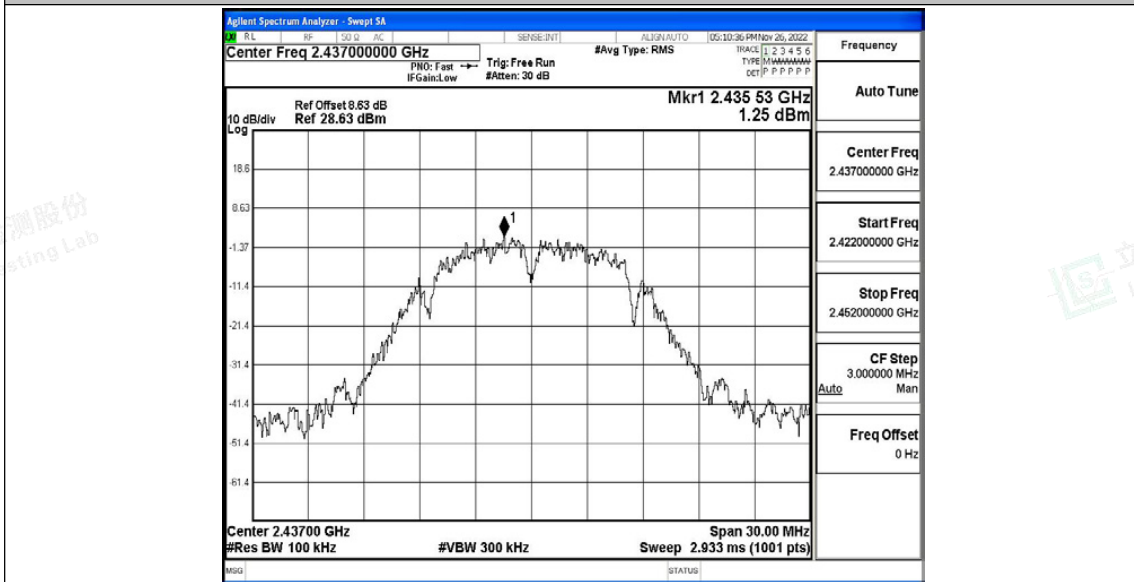
11B\_Ant1\_2412\_1000~26500





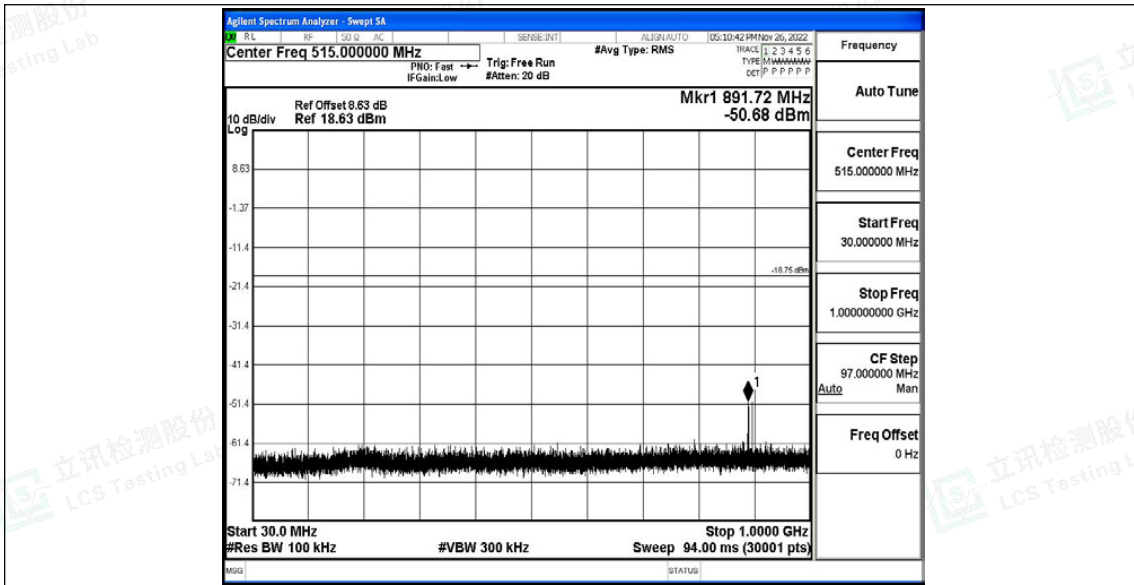


11B\_Ant1\_2437\_0~Reference

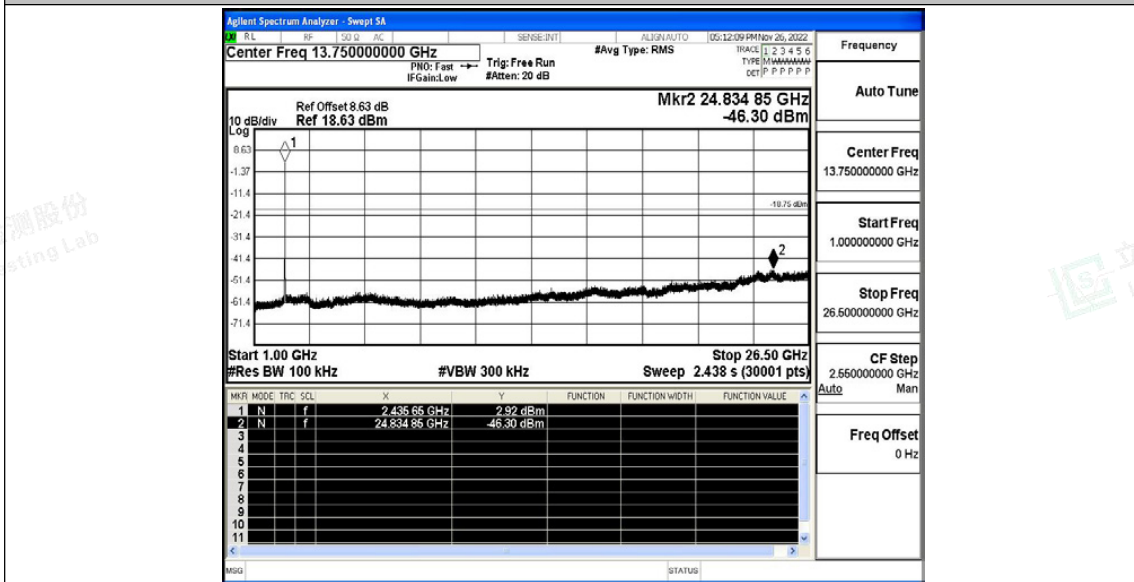


11B\_Ant1\_2437\_30~1000



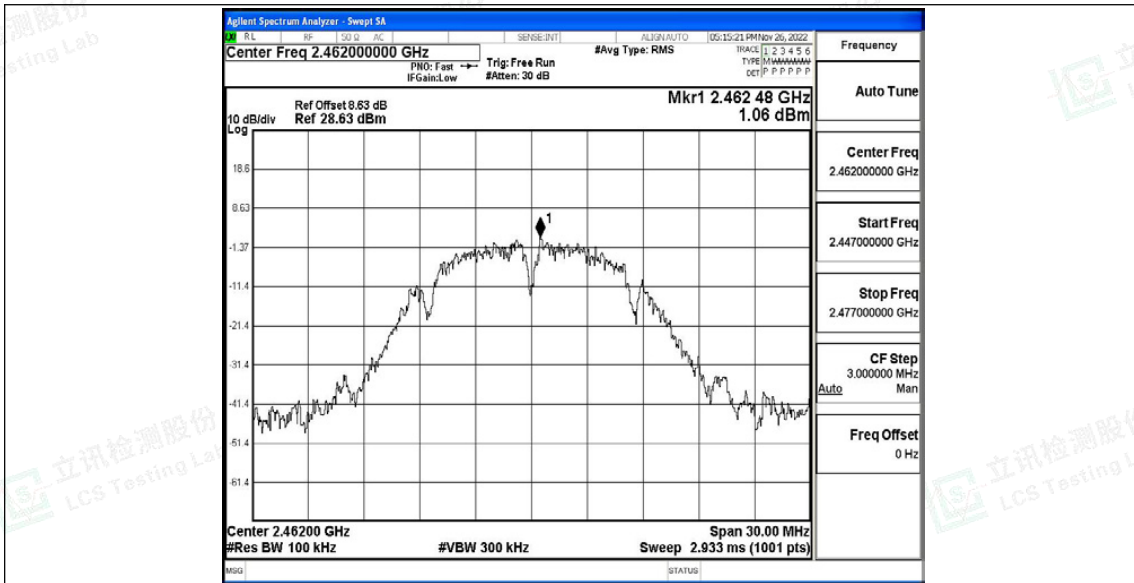


11B\_Ant1\_2437\_1000~26500

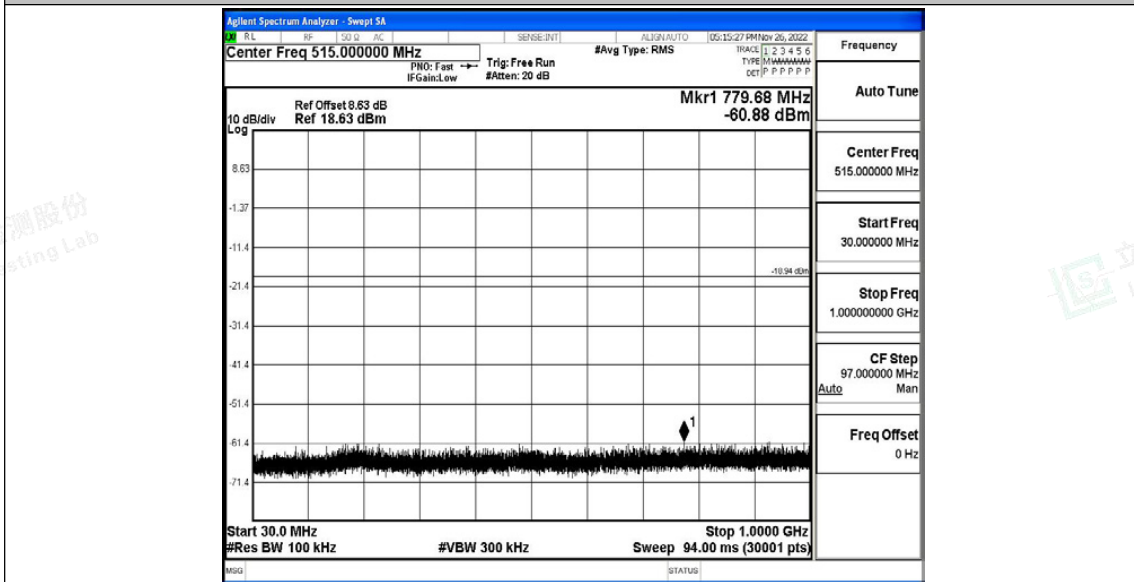


11B\_Ant1\_2462\_0~Reference



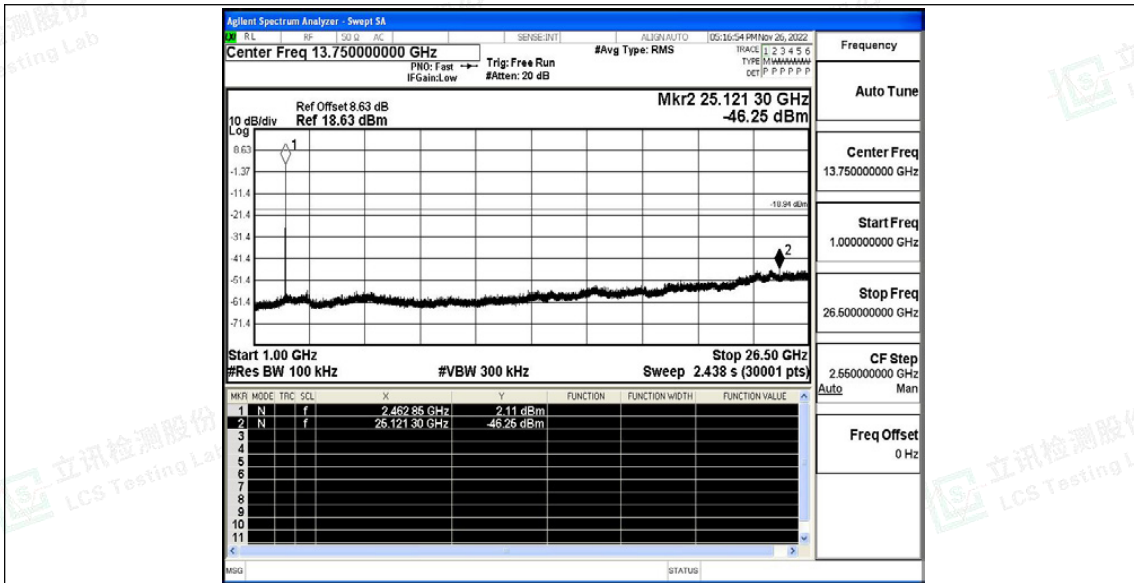


11B\_Ant1\_2462\_30~1000

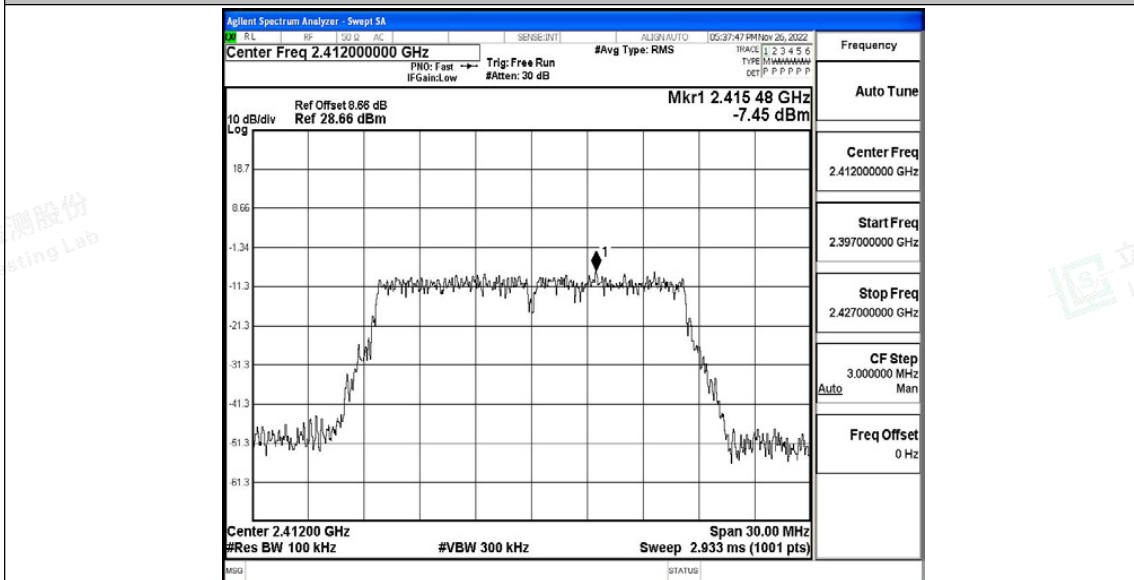


11B\_Ant1\_2462\_1000~26500



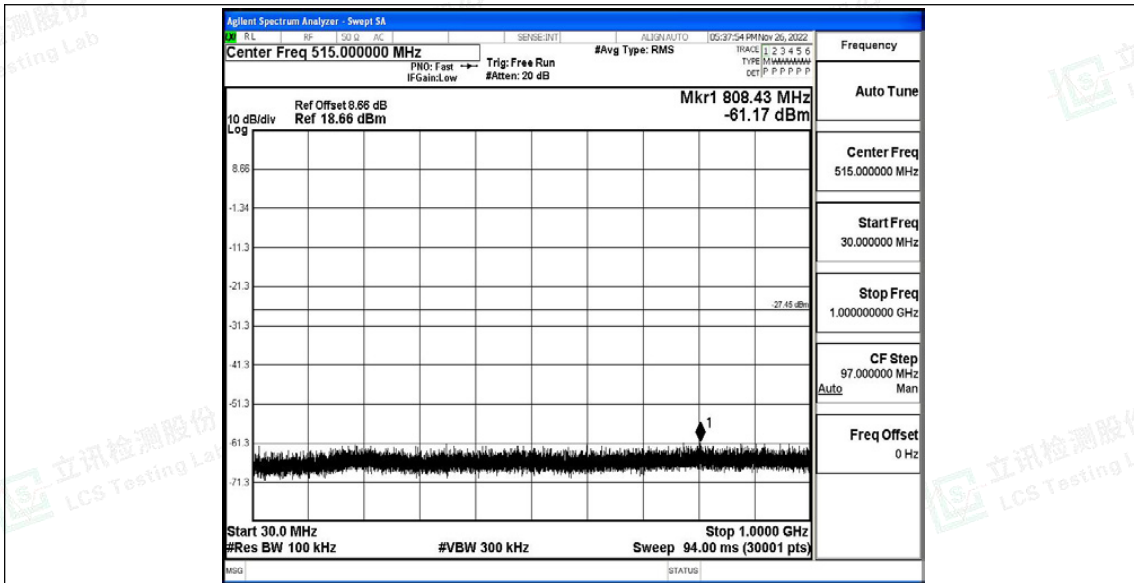


11G\_Ant1\_2412\_0~Reference

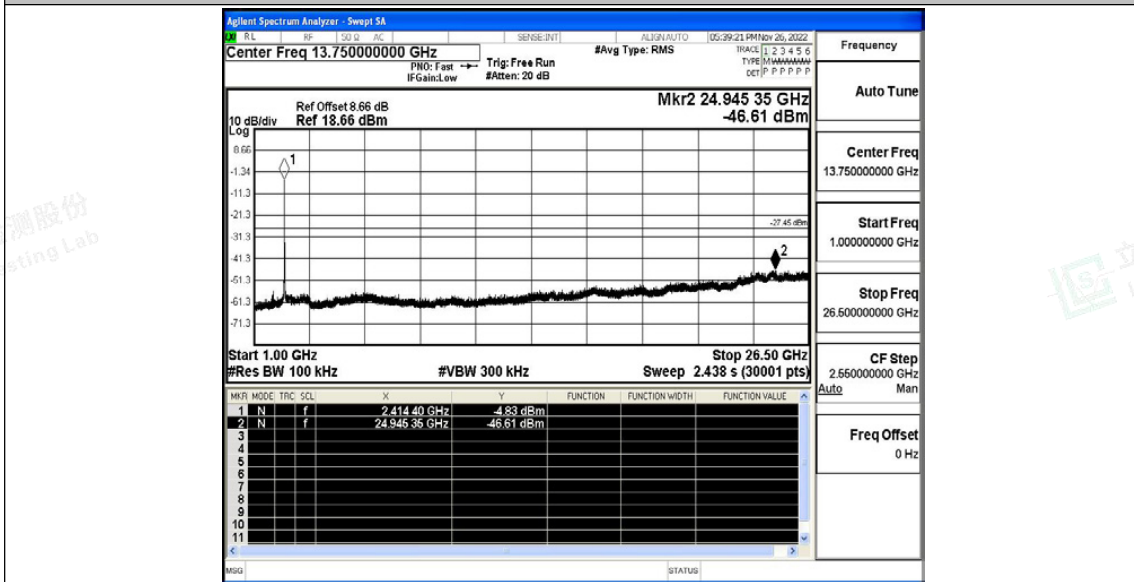


11G\_Ant1\_2412\_30~1000



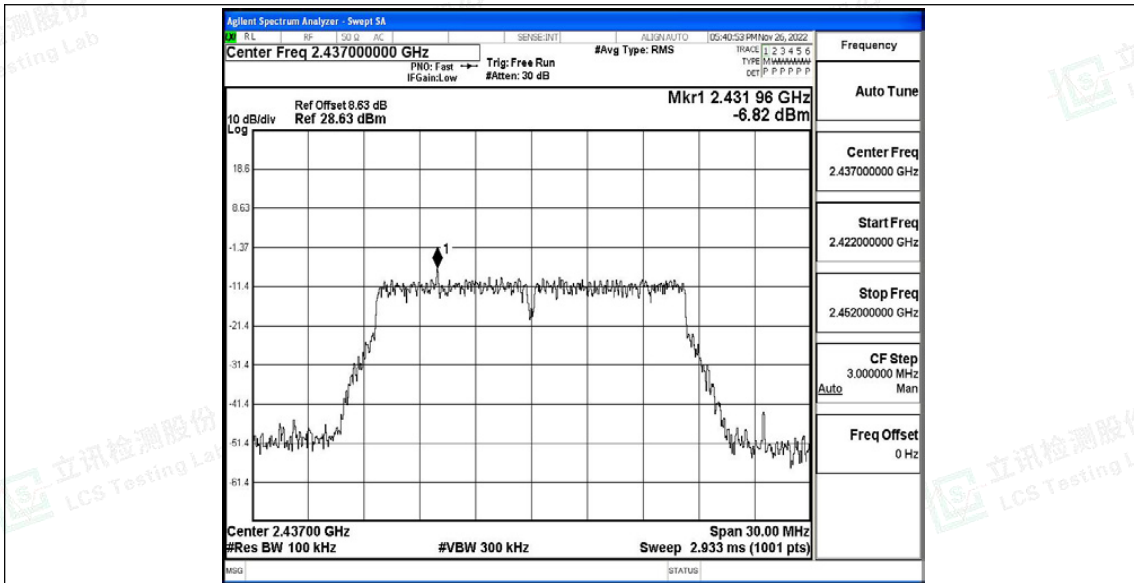


11G\_Ant1\_2412\_1000~26500

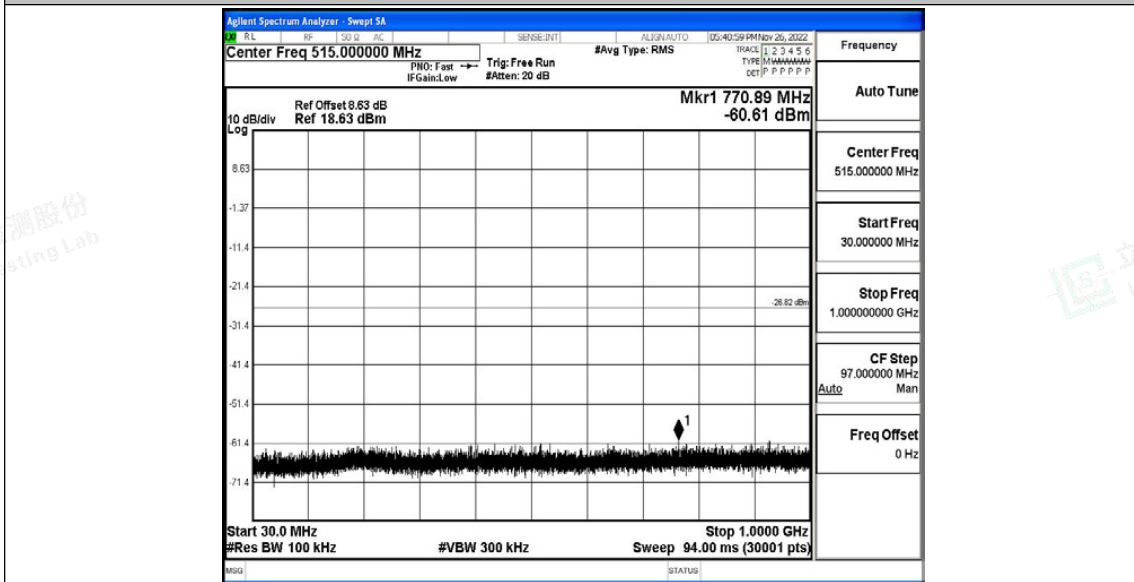


11G\_Ant1\_2437\_0~Reference





11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

