



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: 10LA2

Environmental Conditions

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

C.1 DTS Bandwidth

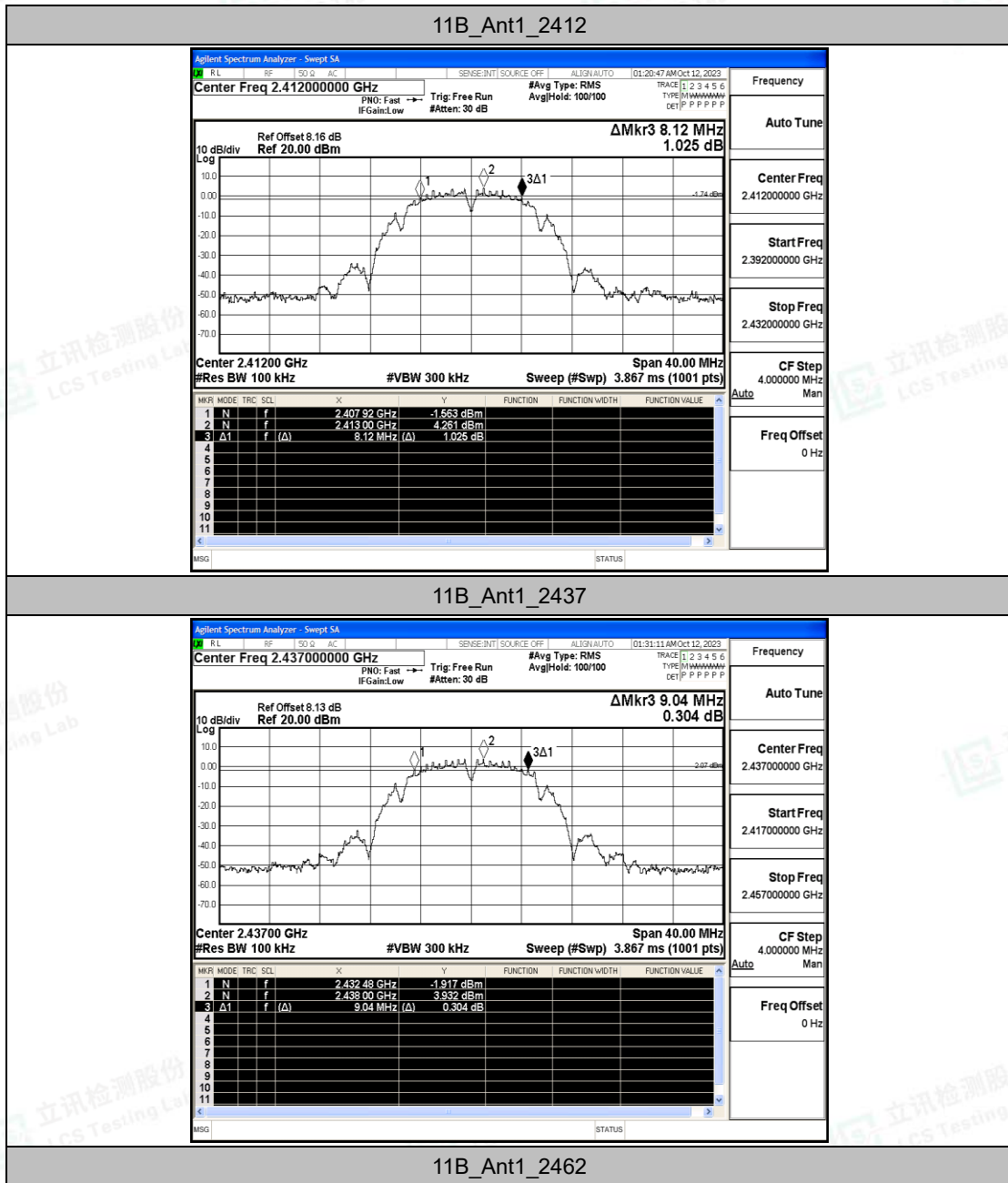
Test Result

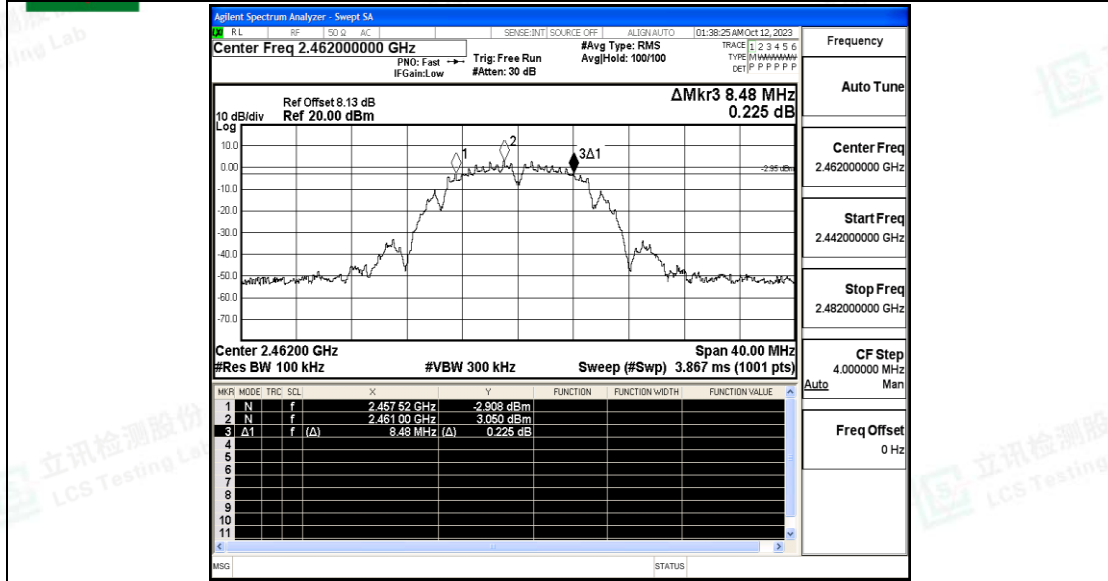
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.120	2407.920	2416.040	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	8.480	2457.520	2466.000	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	16.080	2428.840	2444.920	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.480	2404.040	2420.520	0.5	PASS
		2437	16.720	2428.360	2445.080	0.5	PASS
		2462	17.440	2453.360	2470.800	0.5	PASS



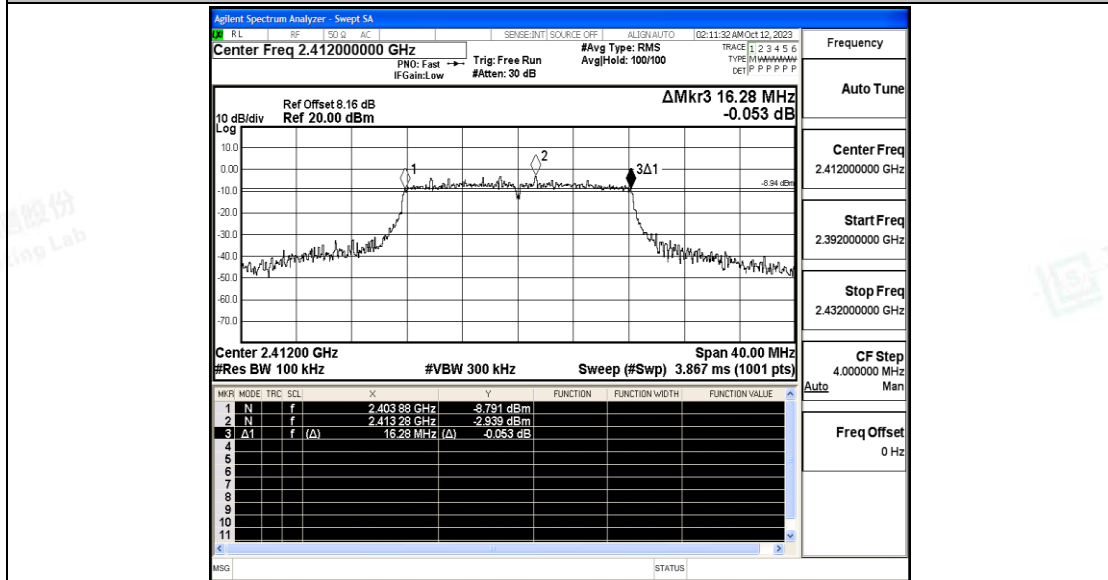


Test Graphs



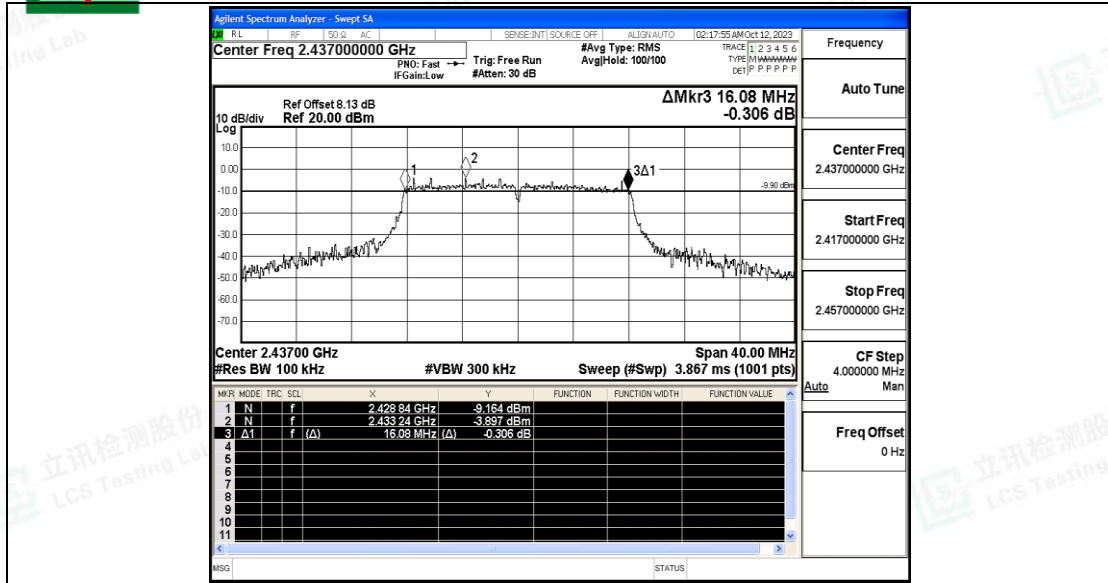


11G_Ant1_2412

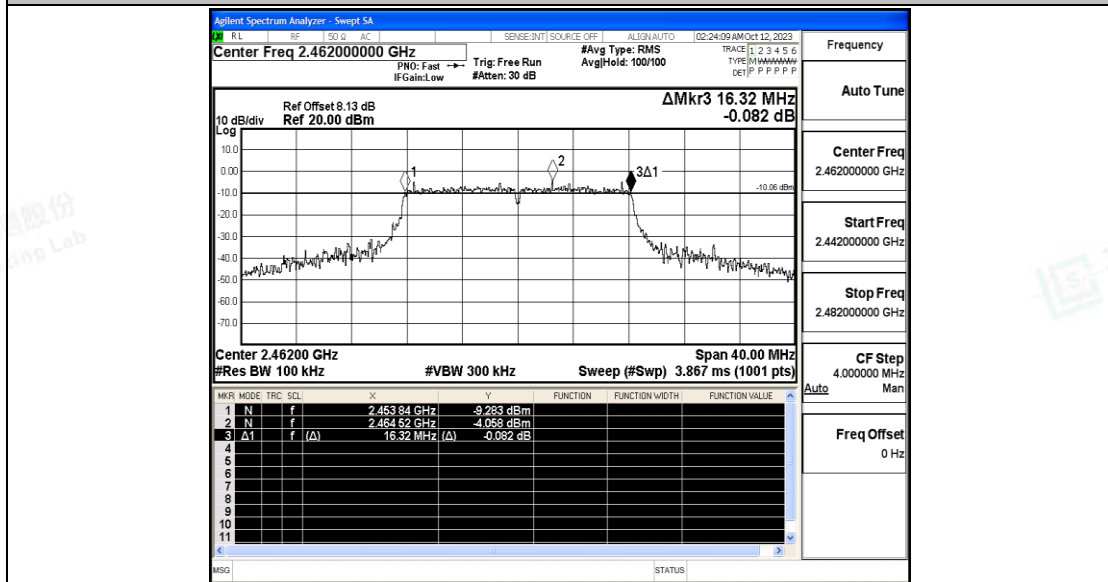


11G_Ant1_2437



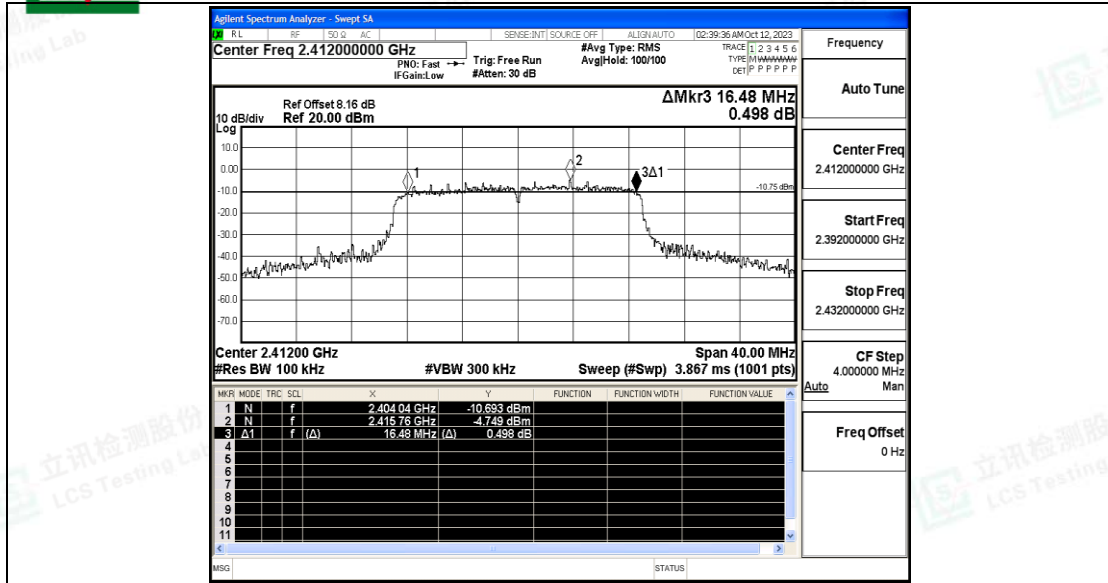


11G_Ant1_2462

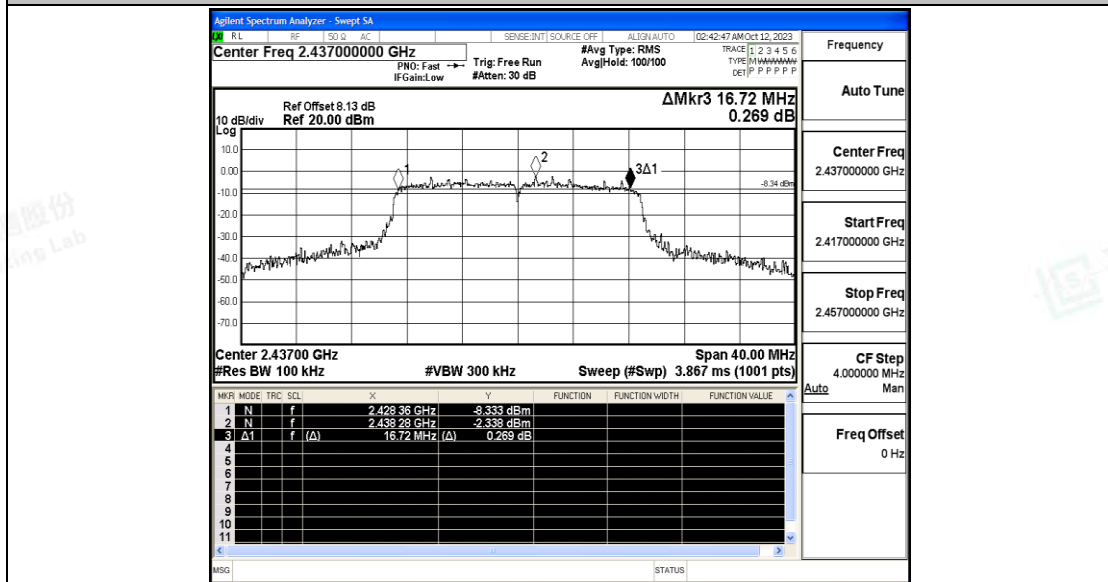


11N20SISO_Ant1_2412



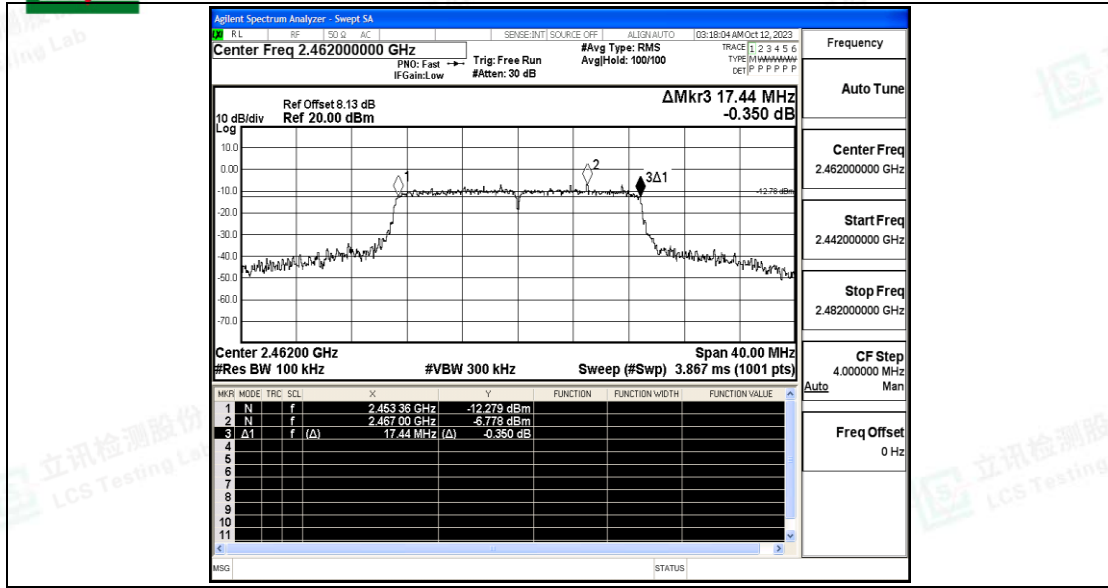


11N20SISO_Ant1_2437



11N20SISO_Ant1_2462







C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.65	≤30.00	PASS
		2437	15.70	≤30.00	PASS
		2462	14.28	≤30.00	PASS
11G	Ant1	2412	14.57	≤30.00	PASS
		2437	13.90	≤30.00	PASS
		2462	13.45	≤30.00	PASS
11N20SISO	Ant1	2412	12.83	≤30.00	PASS
		2437	13.08	≤30.00	PASS
		2462	11.67	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-6.46	≤8.00	PASS
		2437	-8.9	≤8.00	PASS
		2462	-9.02	≤8.00	PASS
11G	Ant1	2412	-17.4	≤8.00	PASS
		2437	-17.9	≤8.00	PASS
		2462	-18.73	≤8.00	PASS
11N20SISO	Ant1	2412	-18.5	≤8.00	PASS
		2437	-18.71	≤8.00	PASS
		2462	-20.16	≤8.00	PASS



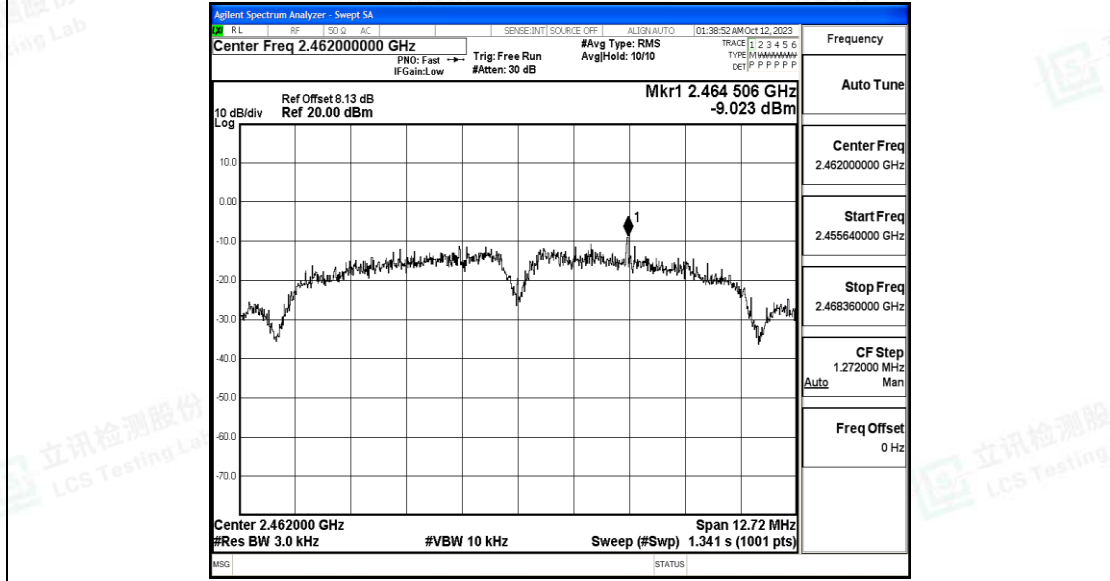


Test Graphs

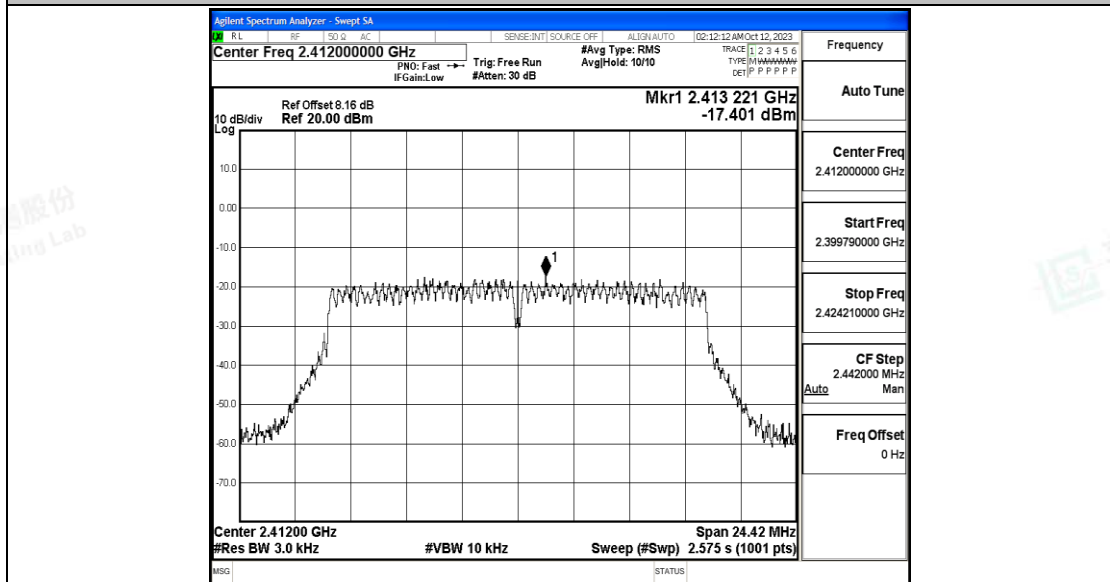




LCSA0013245ED



11G_Ant1_2412

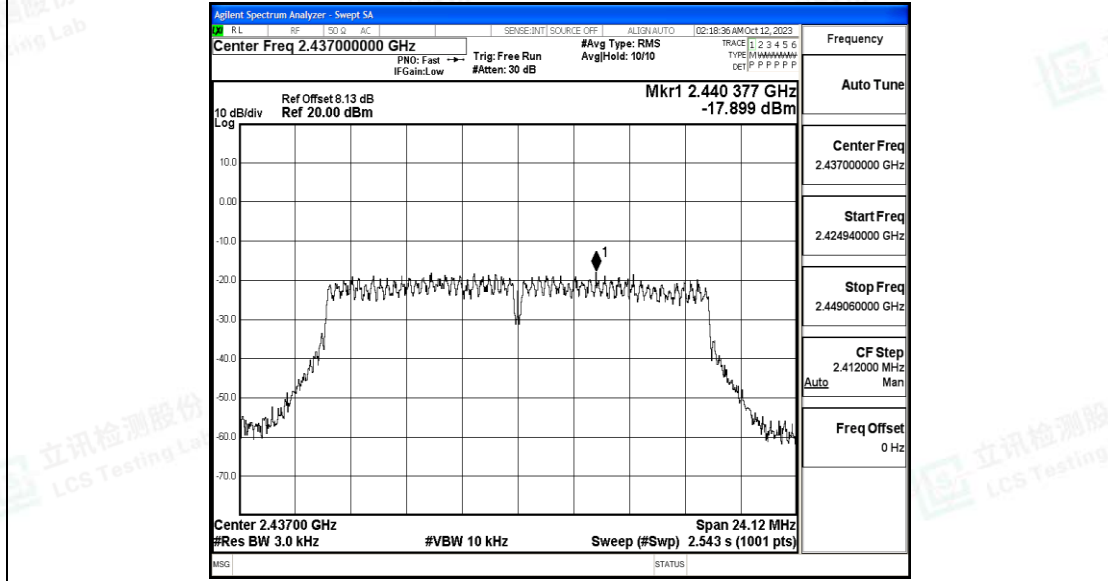


11G_Ant1_2437

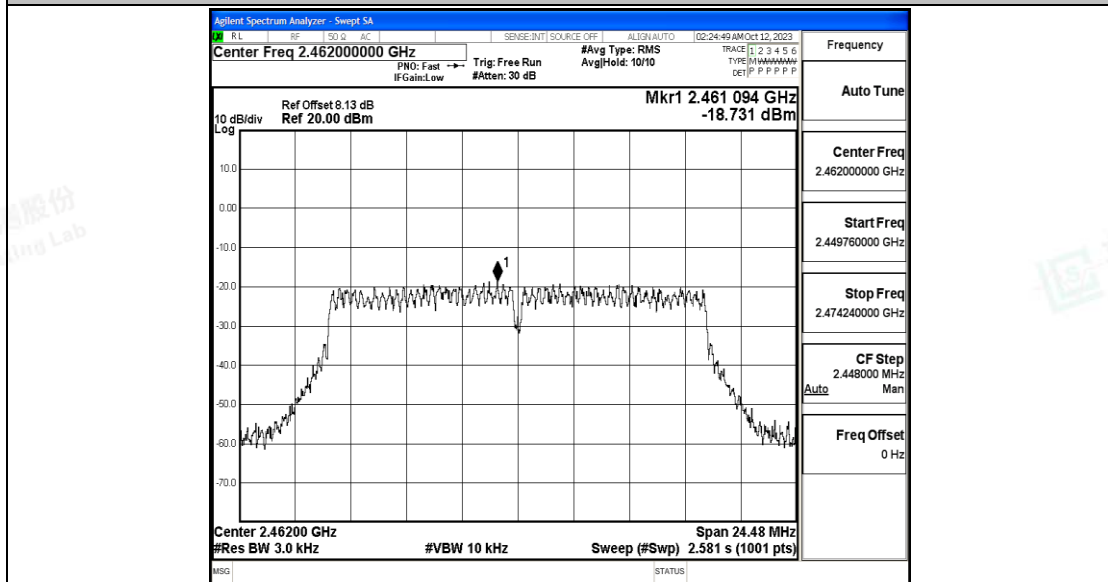




LCSA00183245ED



11G_Ant1_2462

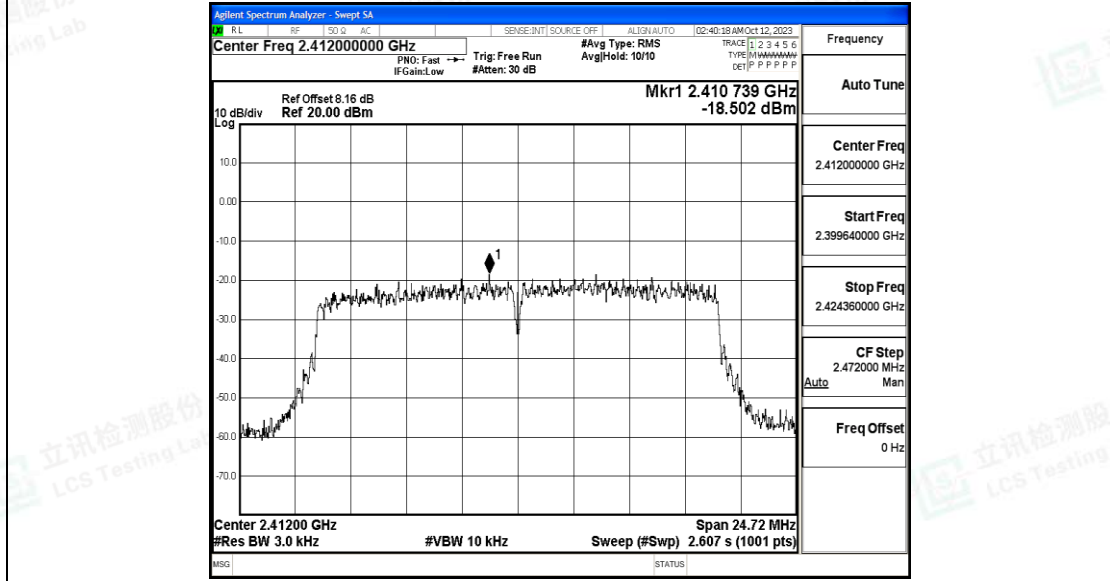


11N20SISO_Ant1_2412

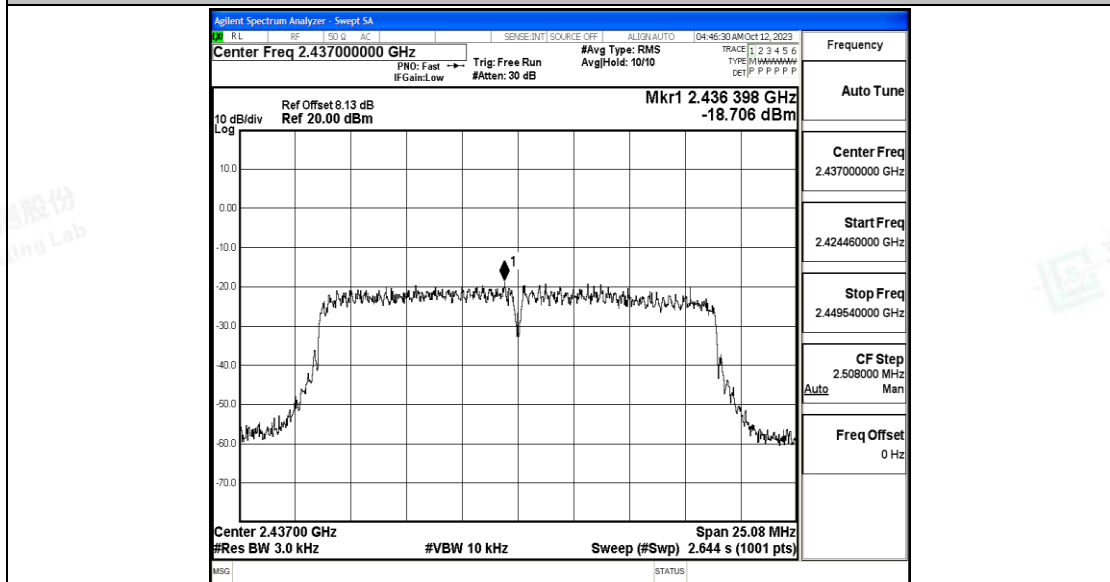




LCSA0013245ED



11N20SISO_Ant1_2437

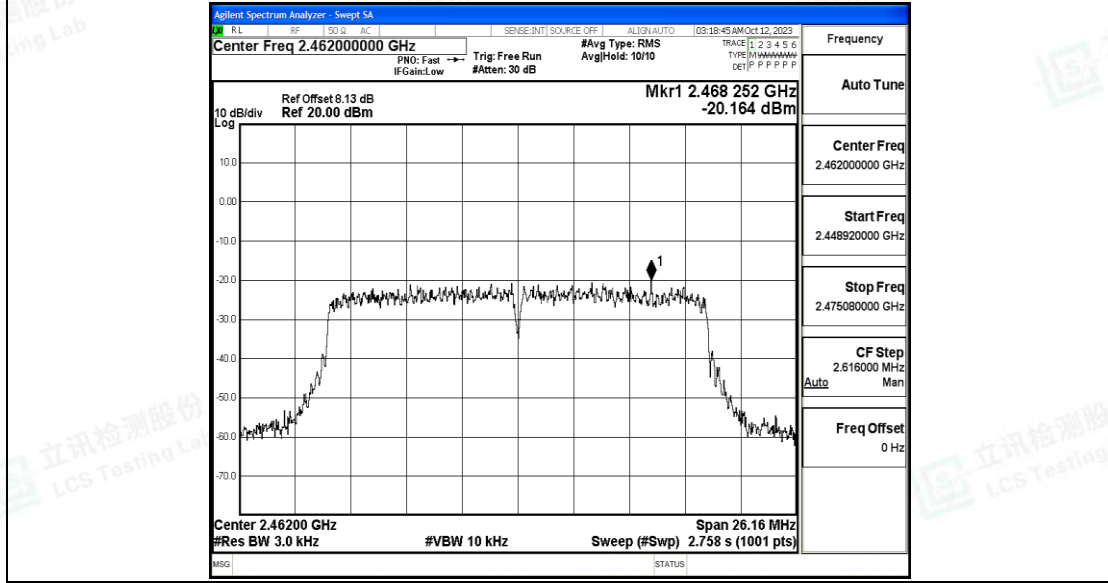


11N20SISO_Ant1_2462





LCSA013245ED





C.4 Band edge measurements

Test Result

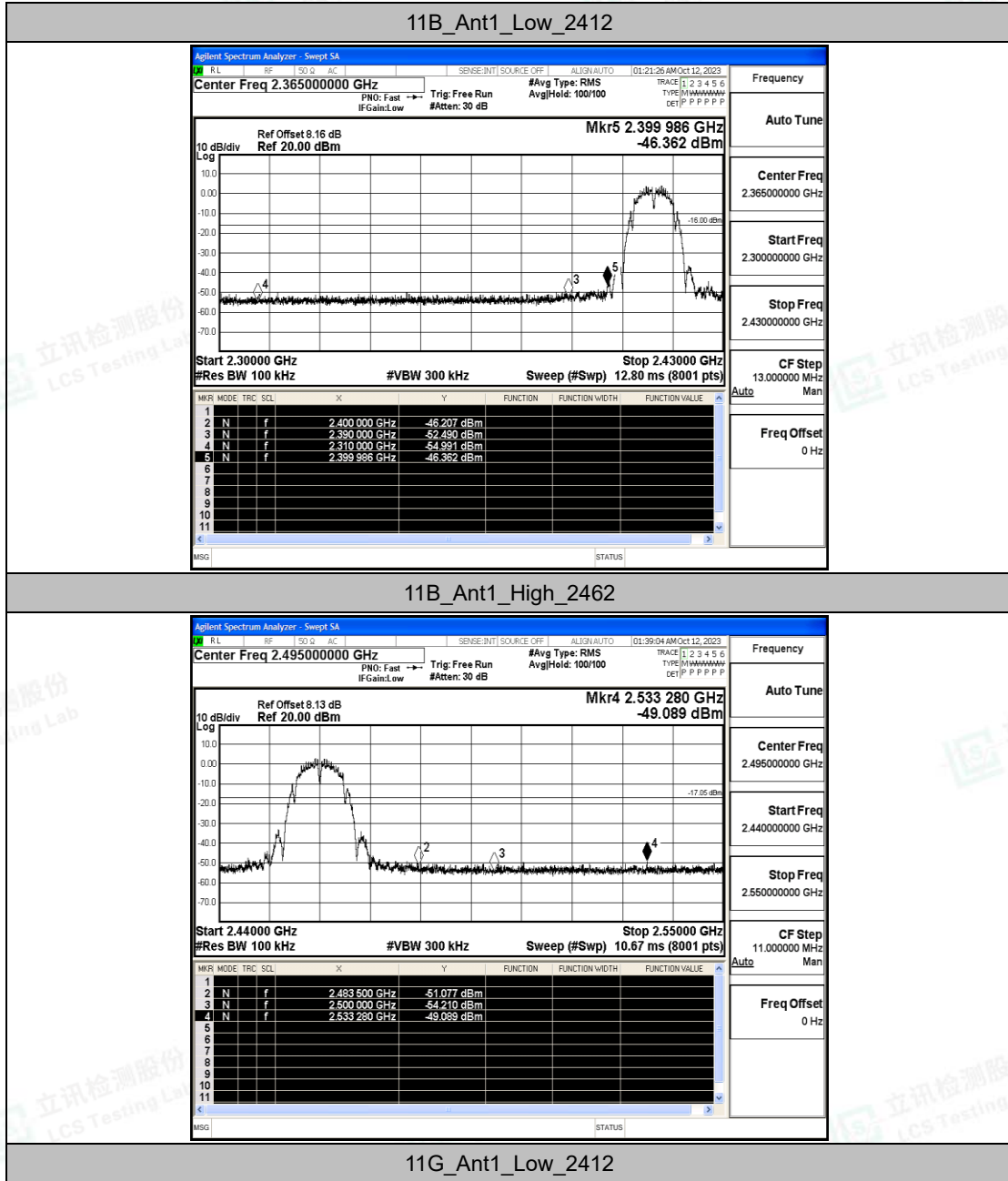
TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.00	-46.36	≤-16	PASS
		High	2462	2.95	-49.09	≤-17.05	PASS
11G	Ant1	Low	2412	-3.21	-33.6	≤-23.21	PASS
		High	2462	-3.79	-46.22	≤-23.79	PASS
11N20SISO	Ant1	Low	2412	-5.74	-38.08	≤-25.74	PASS
		High	2462	-6.38	-47.3	≤-26.38	PASS





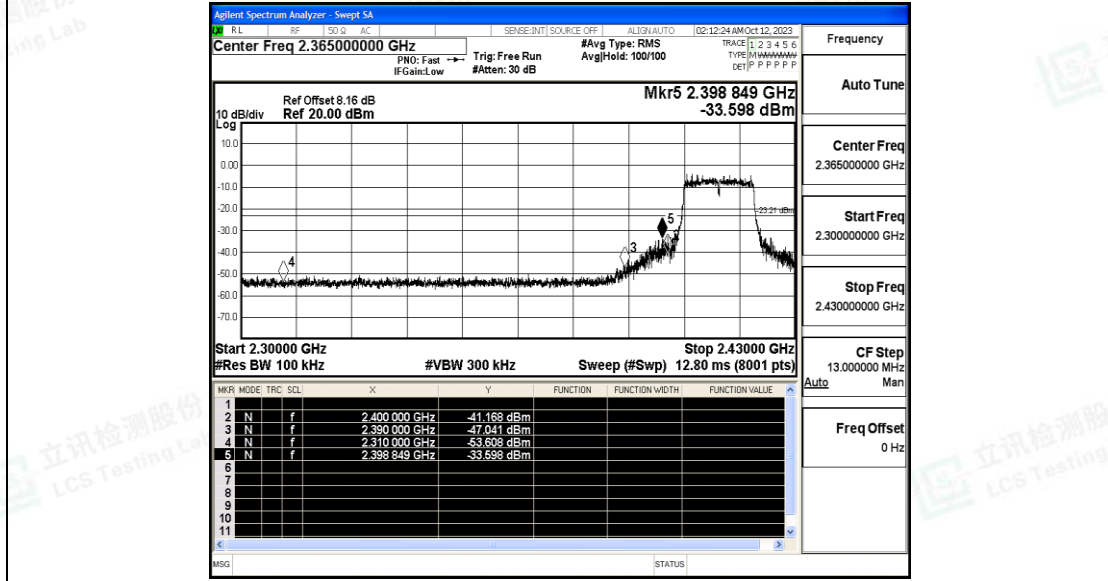
LC SA013245ED

Test Graphs

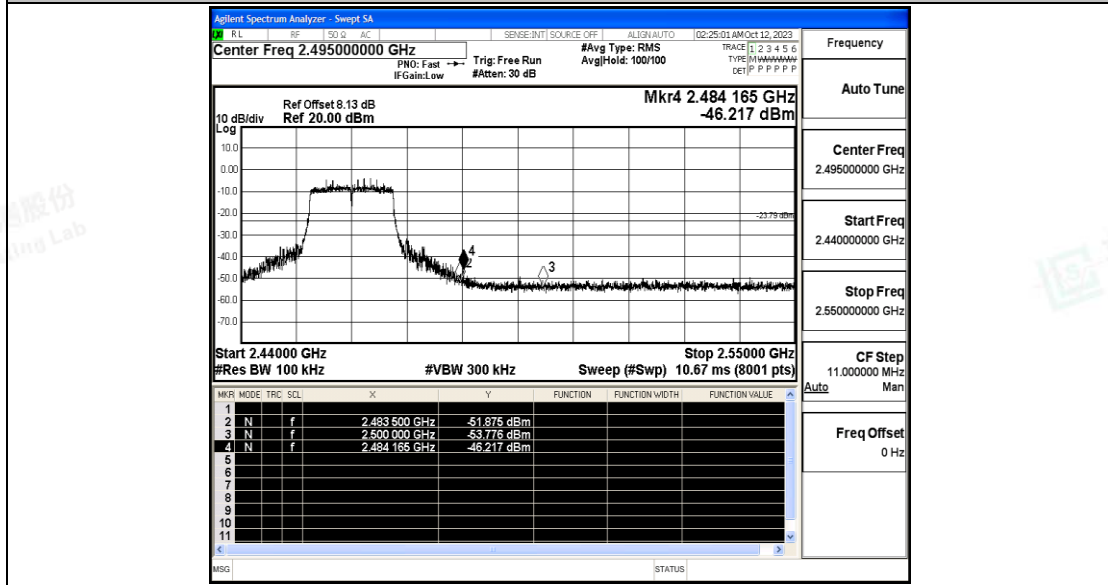




LCSA0013245ED



11G_Ant1_High_2462

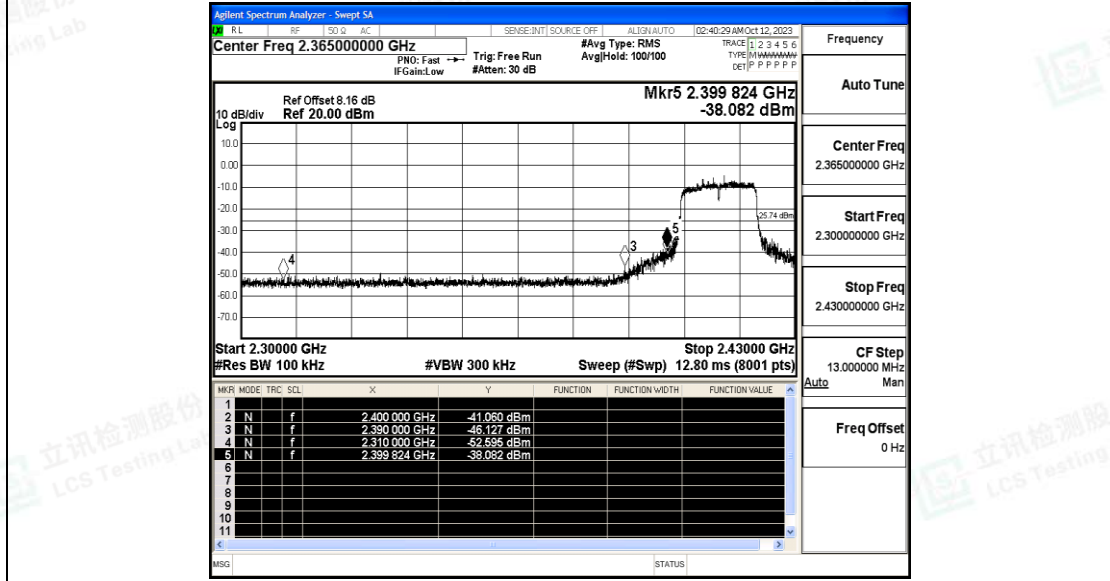


11N20SISO_Ant1_Low_2412

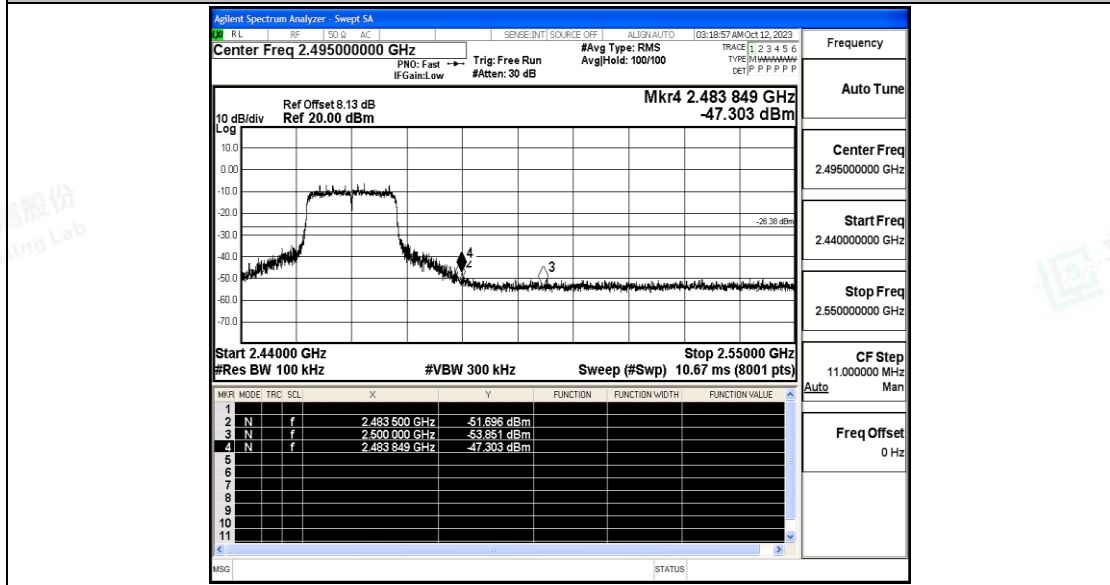




LCSA0013245ED



11N20SISO_Ant1_High_2462





C.5 Conducted Spurious Emission

Test Result

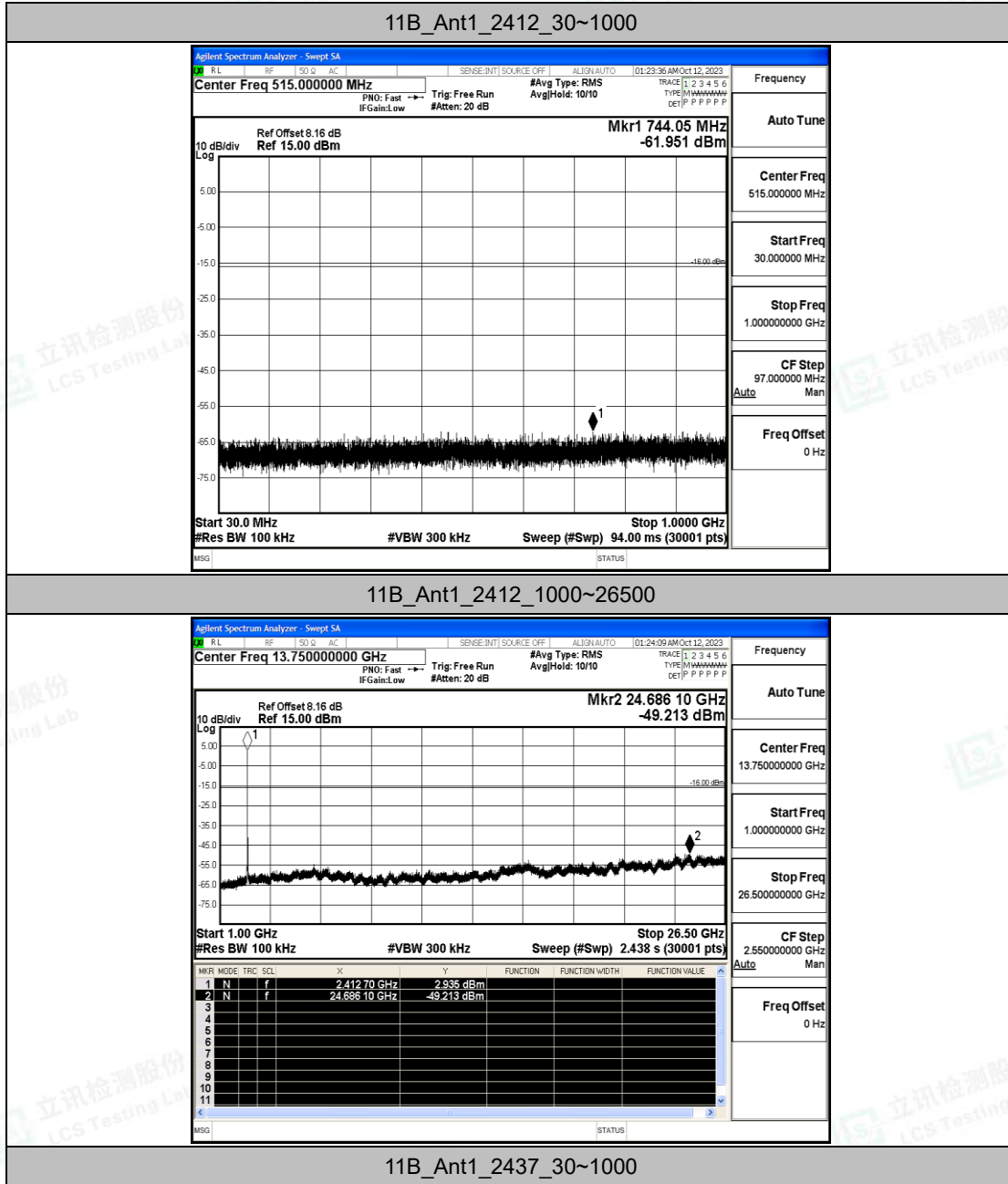
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	4.00	-61.95	≤-16	PASS
			1000~26500	4.00	-49.21	≤-16	PASS
		2437	30~1000	3.34	-61.23	≤-16.66	PASS
			1000~26500	3.34	-49.02	≤-16.66	PASS
		2462	30~1000	2.95	-62.17	≤-17.05	PASS
			1000~26500	2.95	-48.13	≤-17.05	PASS
11G	Ant1	2412	30~1000	-3.21	-60.9	≤-23.21	PASS
			1000~26500	-3.21	-48.91	≤-23.21	PASS
		2437	30~1000	-3.84	-61.73	≤-23.84	PASS
			1000~26500	-3.84	-49.26	≤-23.84	PASS
		2462	30~1000	-3.79	-60.86	≤-23.79	PASS
			1000~26500	-3.79	-48.77	≤-23.79	PASS
11N20SISO	Ant1	2412	30~1000	-5.74	-61.33	≤-25.74	PASS
			1000~26500	-5.74	-49.06	≤-25.74	PASS
		2437	30~1000	-2.52	-61.24	≤-22.52	PASS
			1000~26500	-2.52	-49.24	≤-22.52	PASS
		2462	30~1000	-6.38	-61.56	≤-26.38	PASS
			1000~26500	-6.38	-49	≤-26.38	PASS





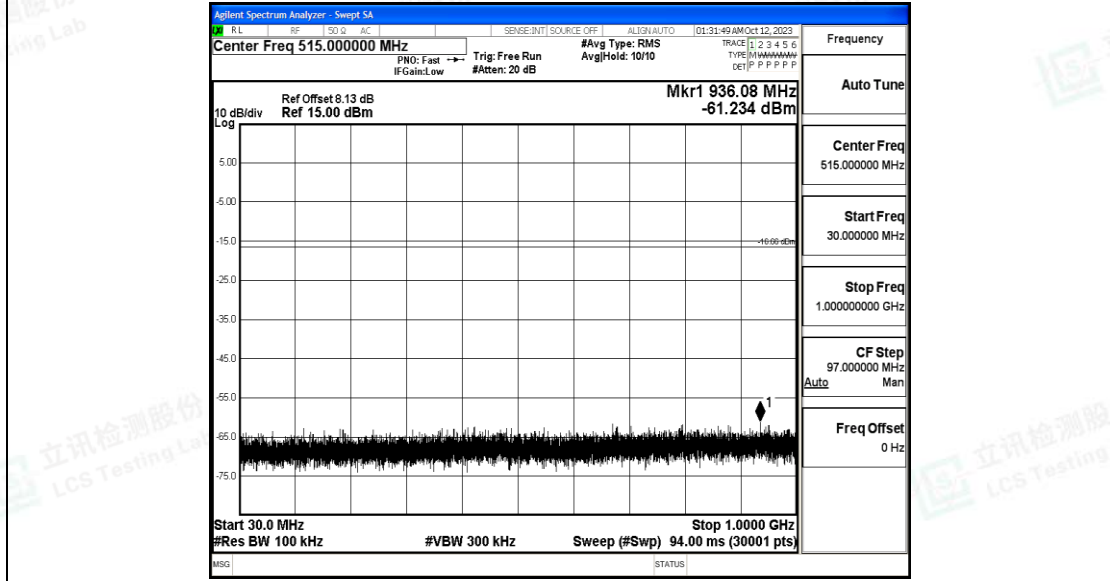
LCSA0183245ED

Test Graphs

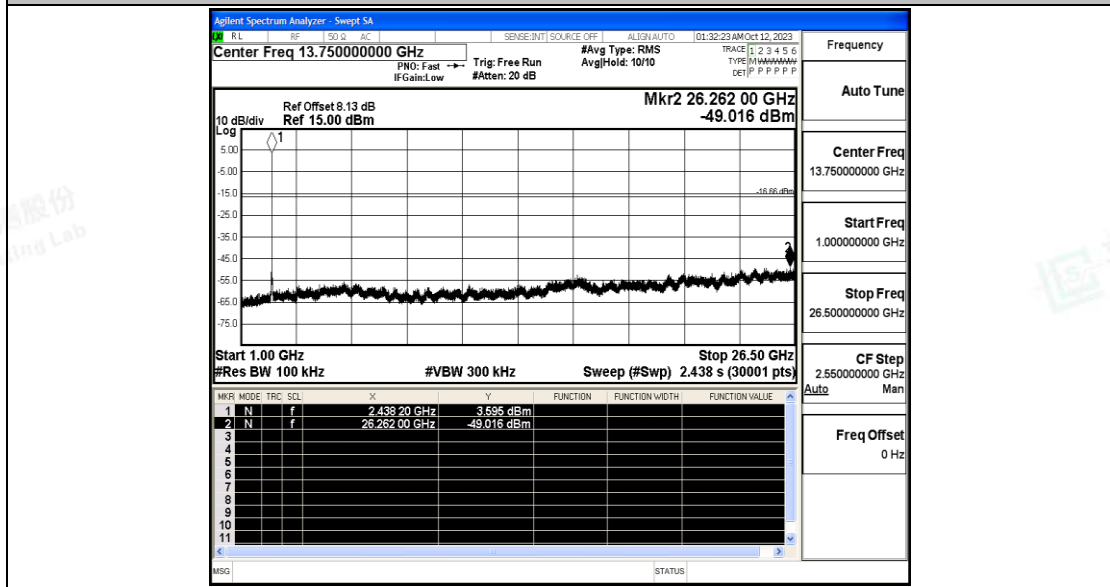




LCSA013245ED



11B_Ant1_2437_1000~26500

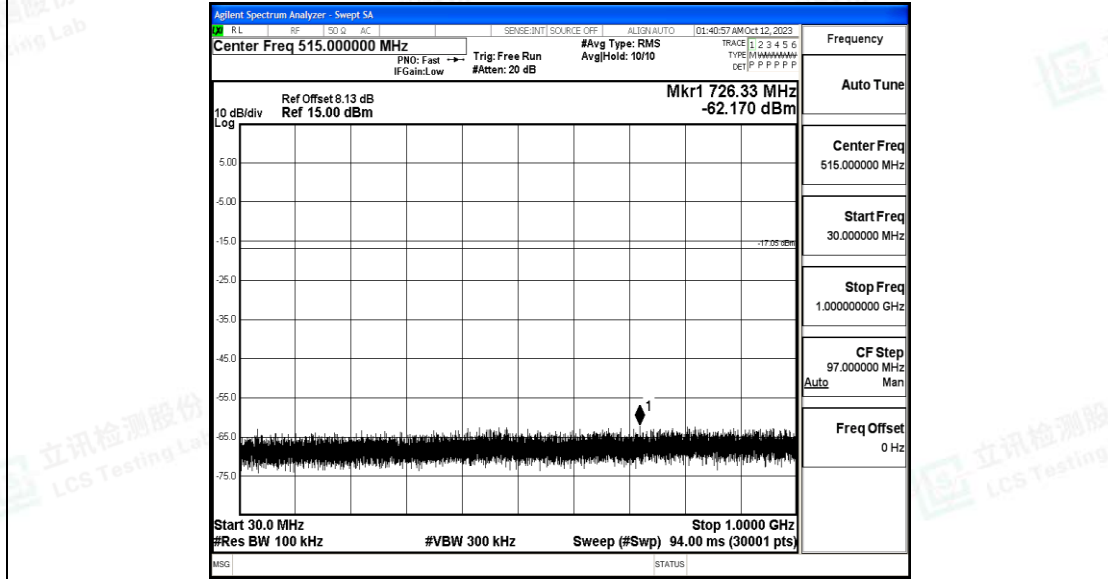


11B_Ant1_2462_30~1000

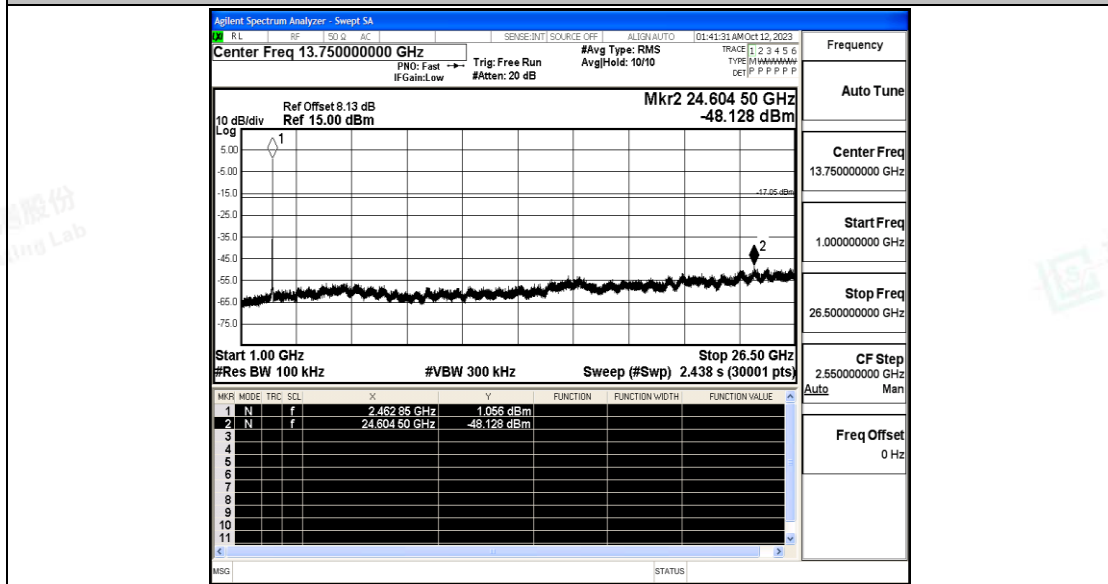




LCSA013245ED



11B_Ant1_2462_1000~26500

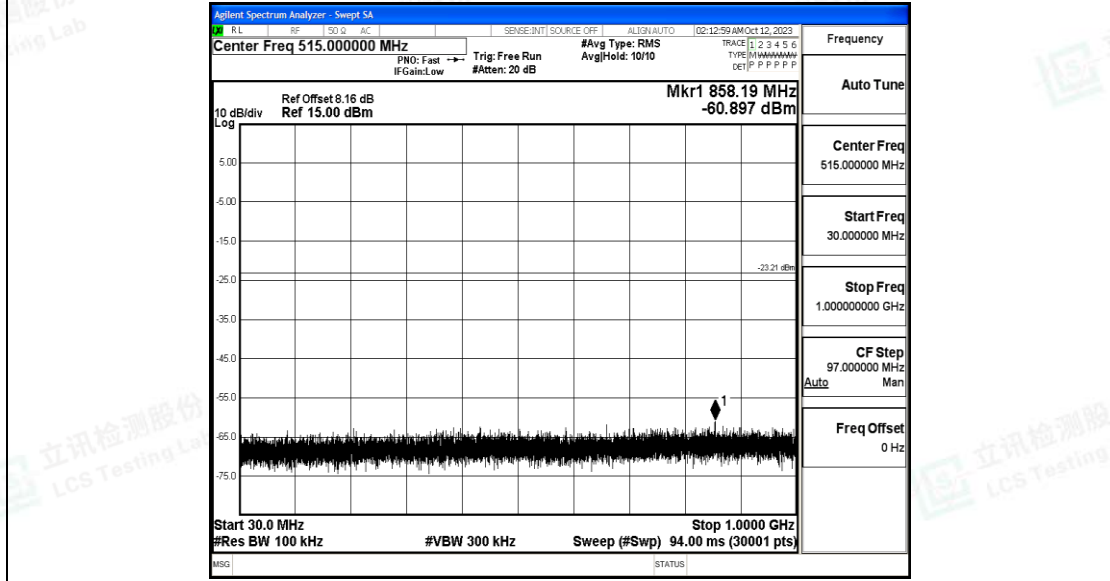


11G_Ant1_2412_30~1000

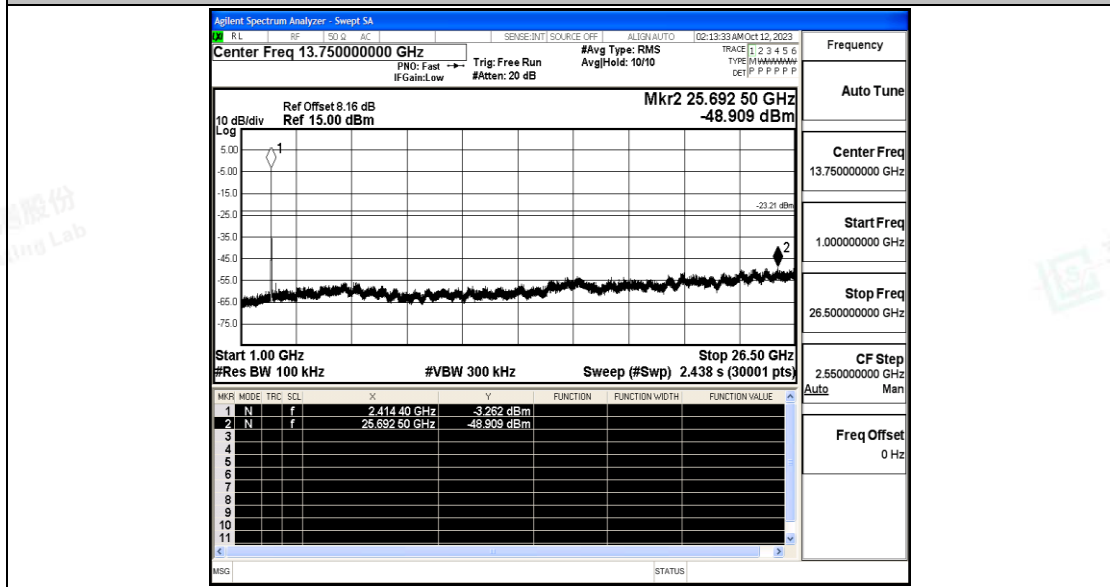




LCS A013245ED



11G_Ant1_2412_1000~26500

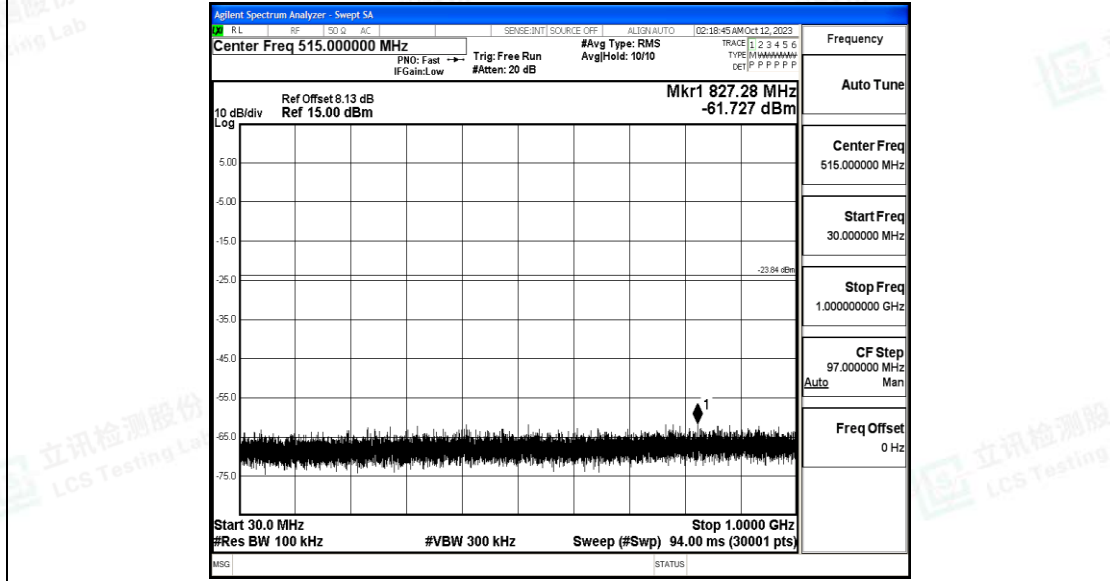


11G_Ant1_2437_30~1000

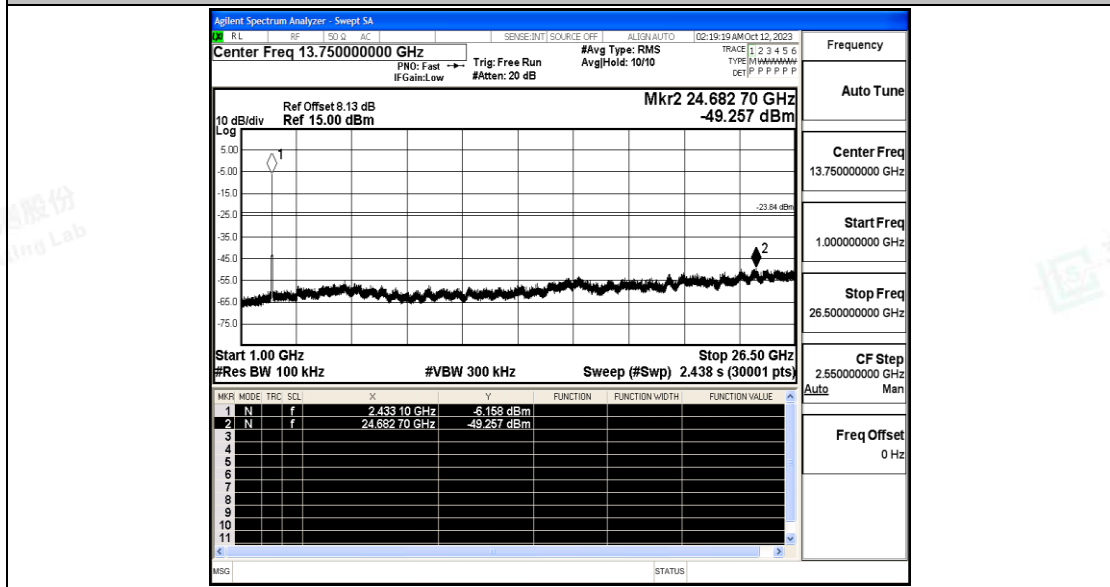




LCSA013245ED



11G_Ant1_2437_1000~26500

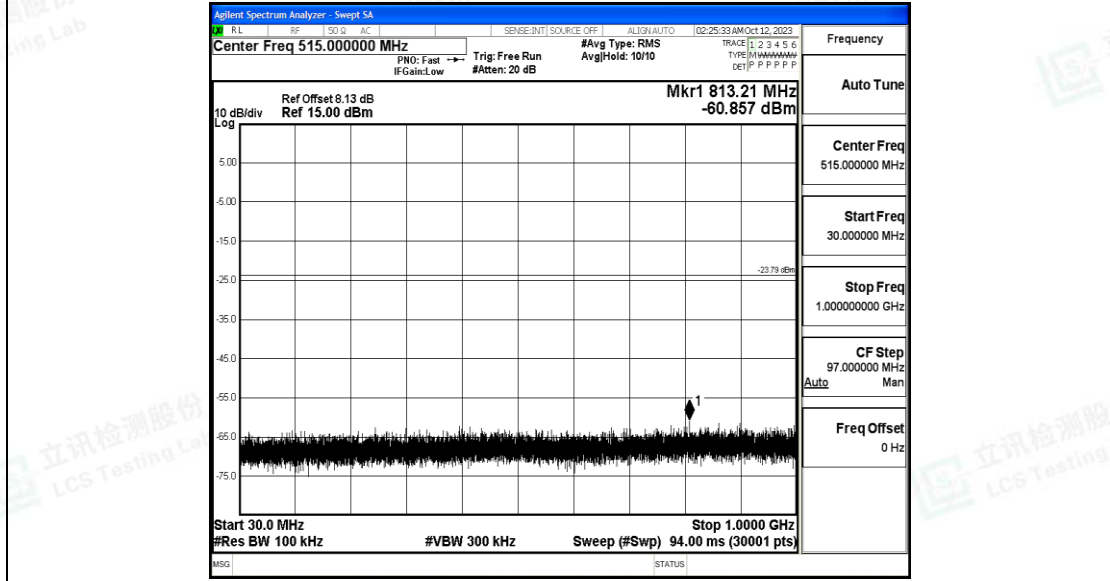


11G_Ant1_2462_30~1000

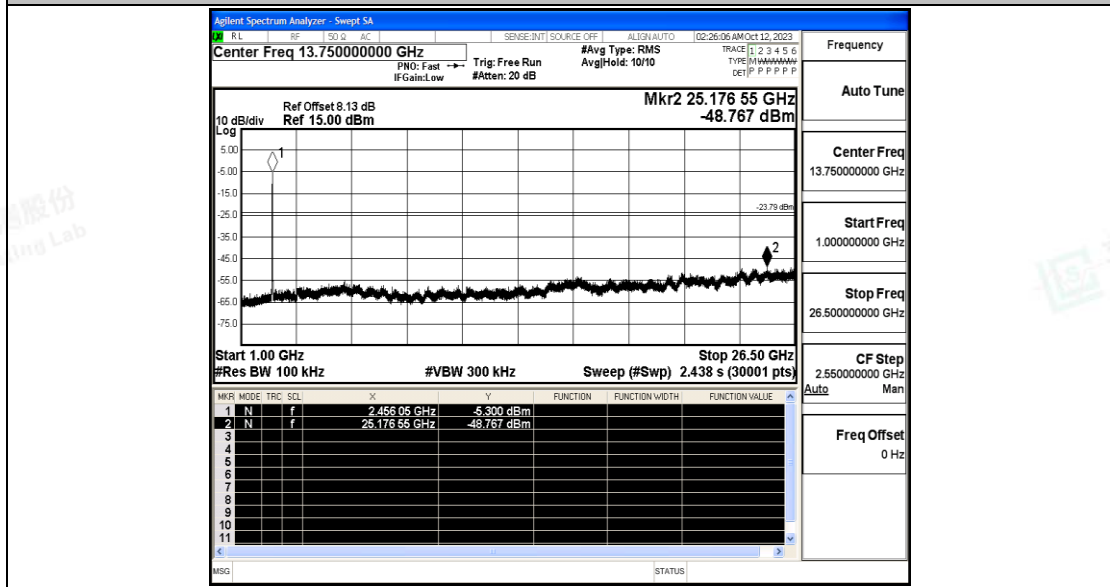




LCSA0013245ED



11G_Ant1_2462_1000~26500

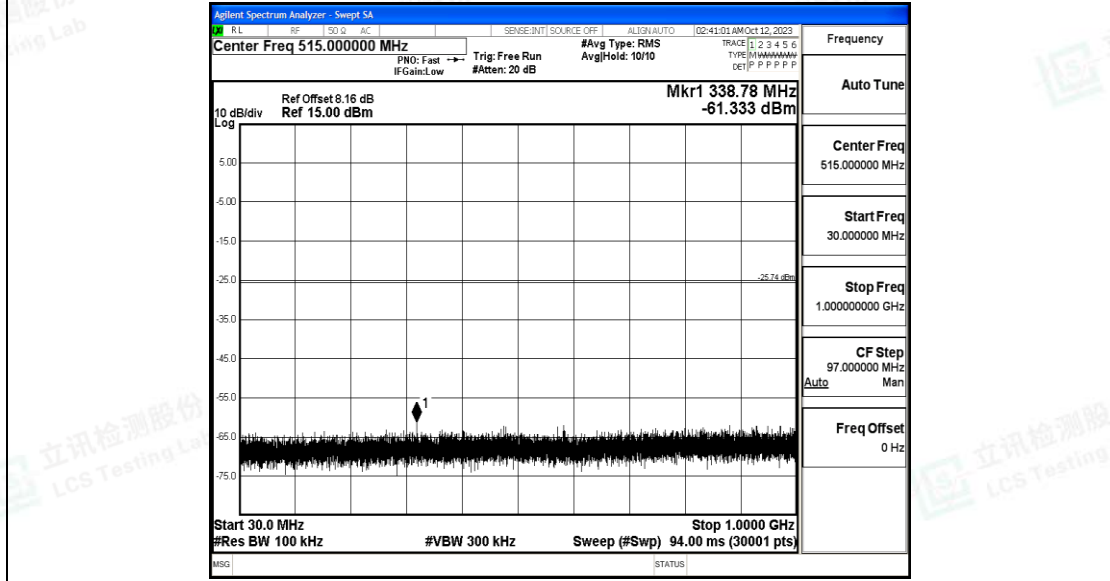


11N20SISO_Ant1_2412_30~1000

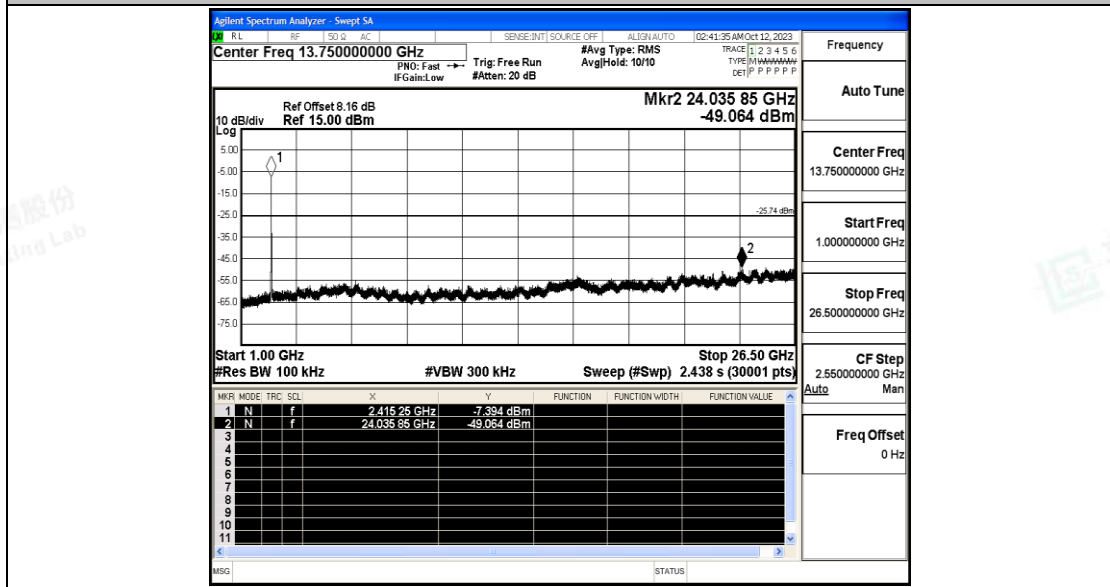




LCSA0013245ED



11N20SISO_Ant1_2412_1000~26500

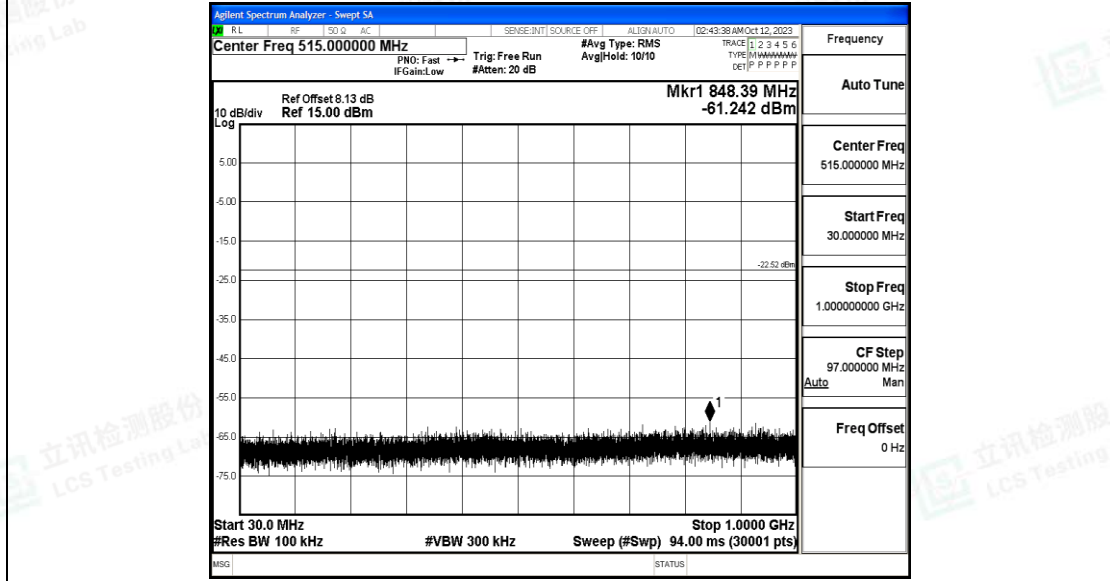


11N20SISO_Ant1_2437_30~1000

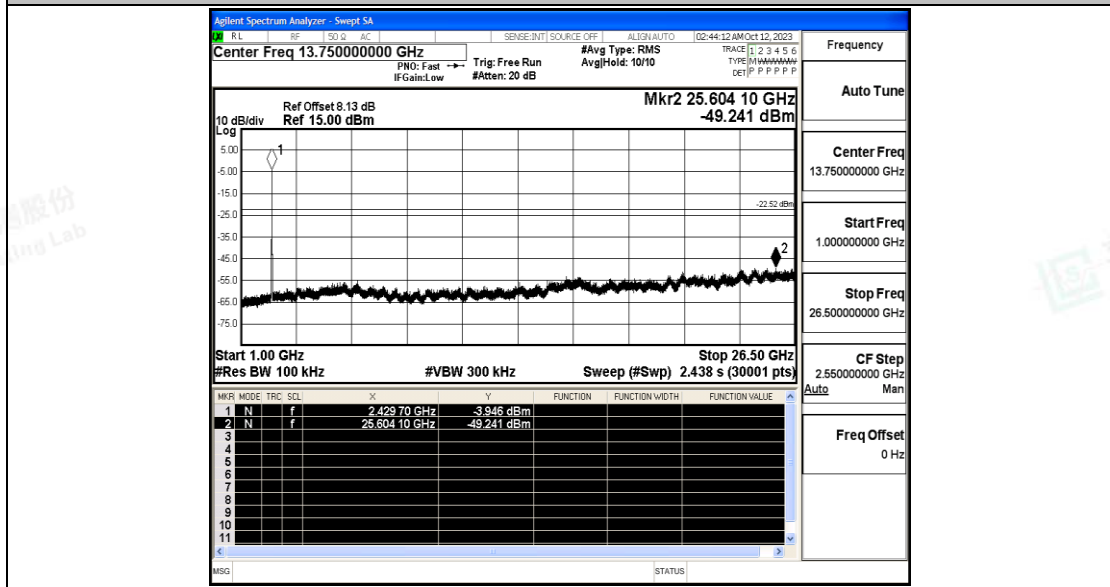




LCSA0013245ED



11N20SISO_Ant1_2437_1000~26500

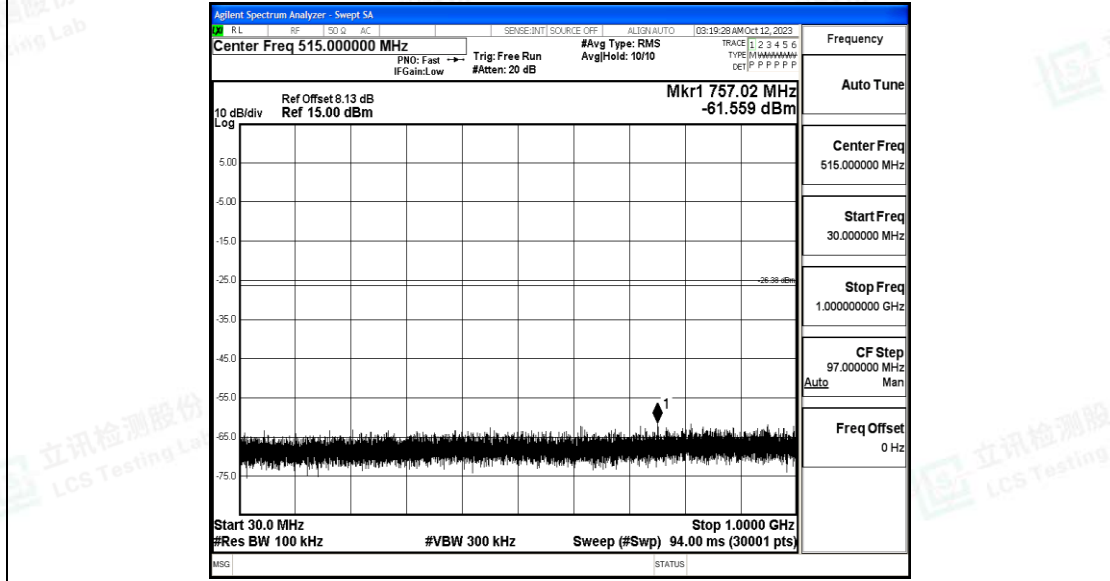


11N20SISO_Ant1_2462_30~1000

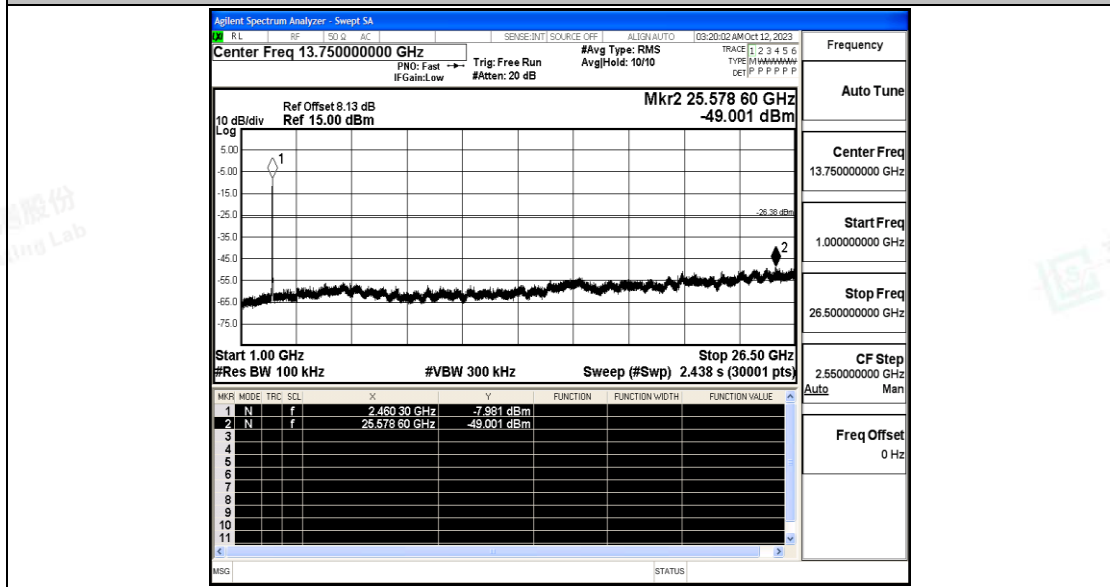




LCSA0013245ED



11N20SISO_Ant1_2462_1000~26500





C.6 Duty Cycle

Test Result

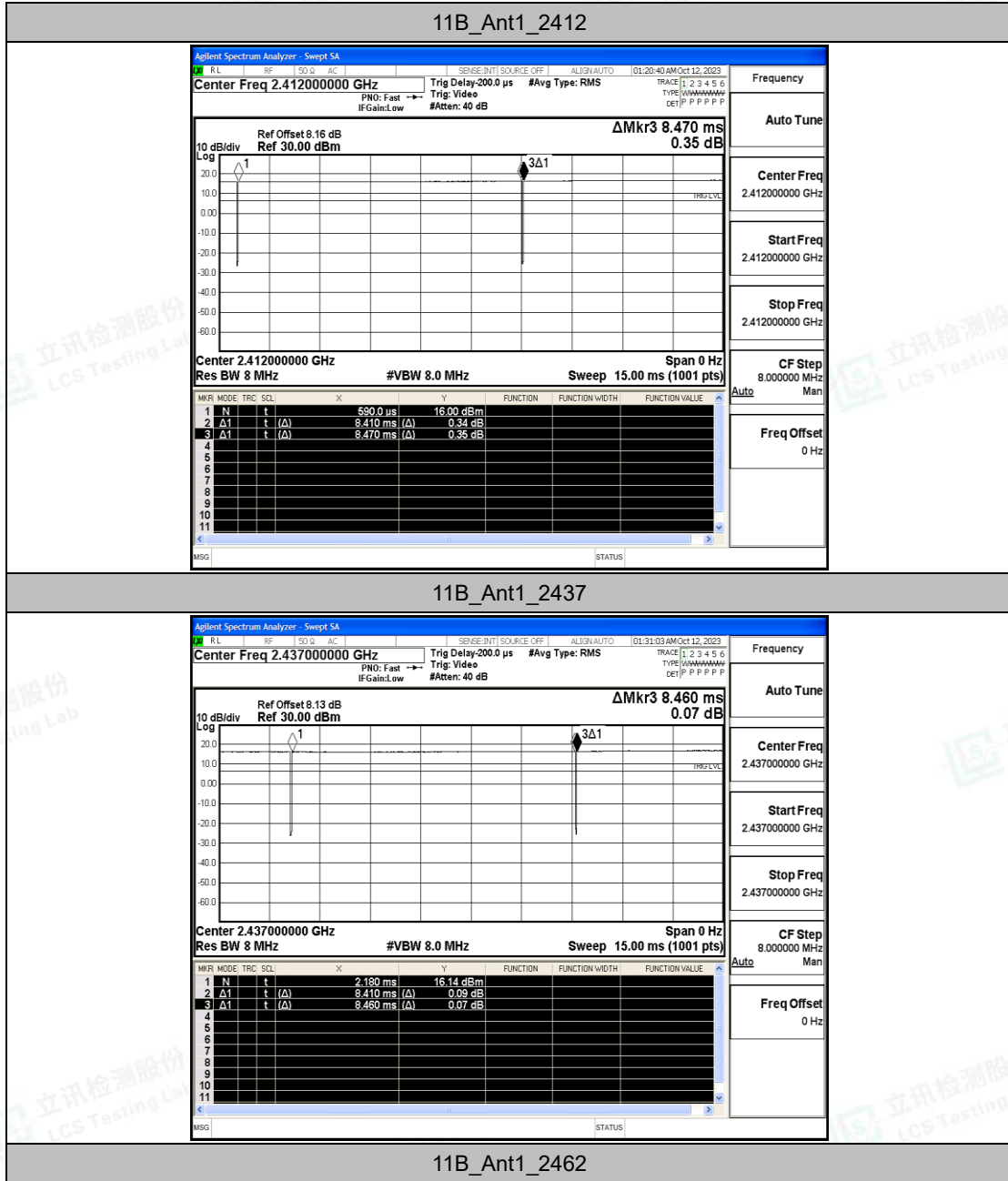
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant1	2412	8.41	8.47	99.29	0.03	---
		2437	8.41	8.46	99.41	0.03	---
		2462	8.42	8.46	99.53	0.02	---
11G	Ant1	2412	1.39	1.45	95.86	0.18	---
		2437	1.39	1.45	95.86	0.18	---
		2462	1.39	1.45	95.86	0.18	---
11N20SISO	Ant1	2412	1.18	1.24	95.16	0.22	---
		2437	1.18	1.23	95.93	0.18	---
		2462	1.18	1.23	95.93	0.18	---





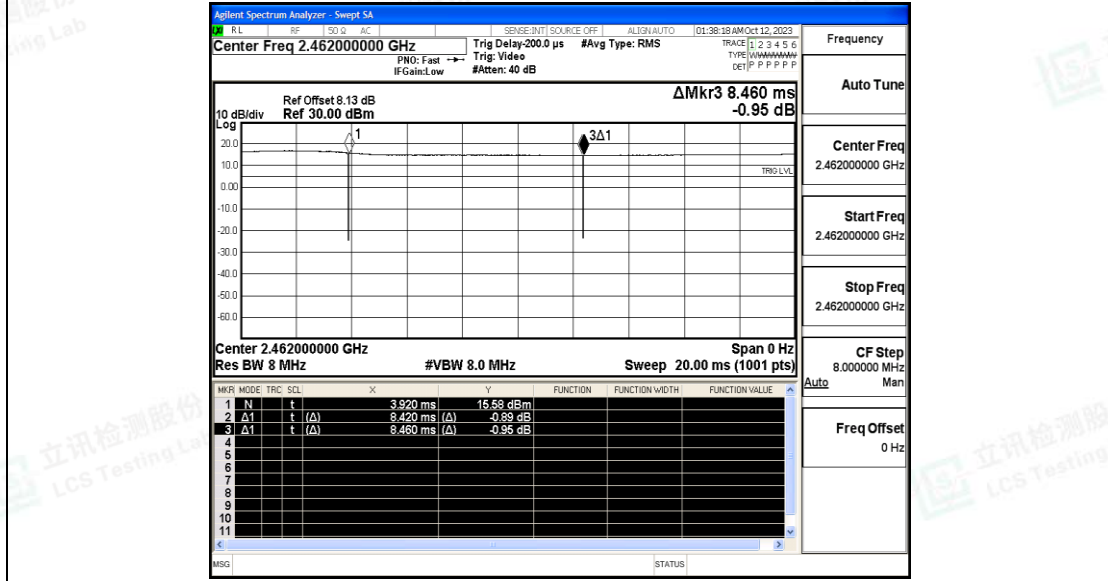
LC SA001*3245ED

Test Graphs

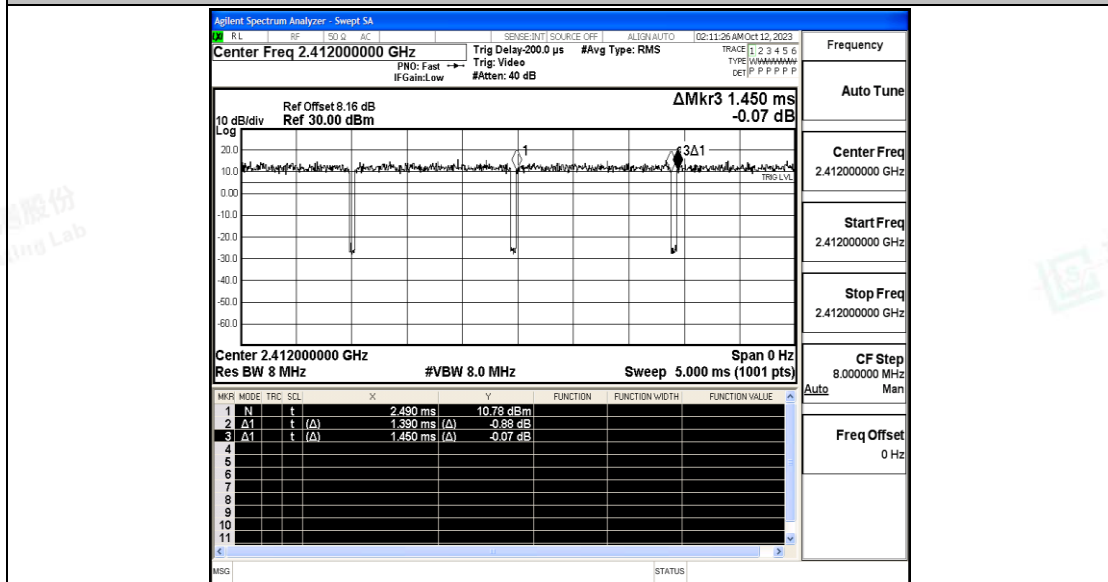




LCSA00183245ED



11G_Ant1_2412

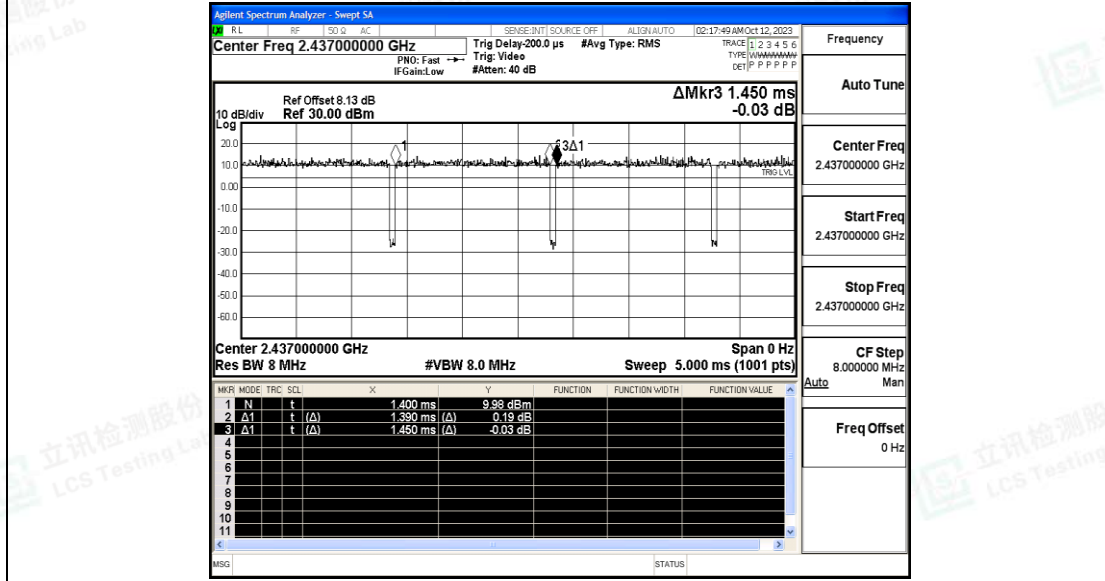


11G_Ant1_2437

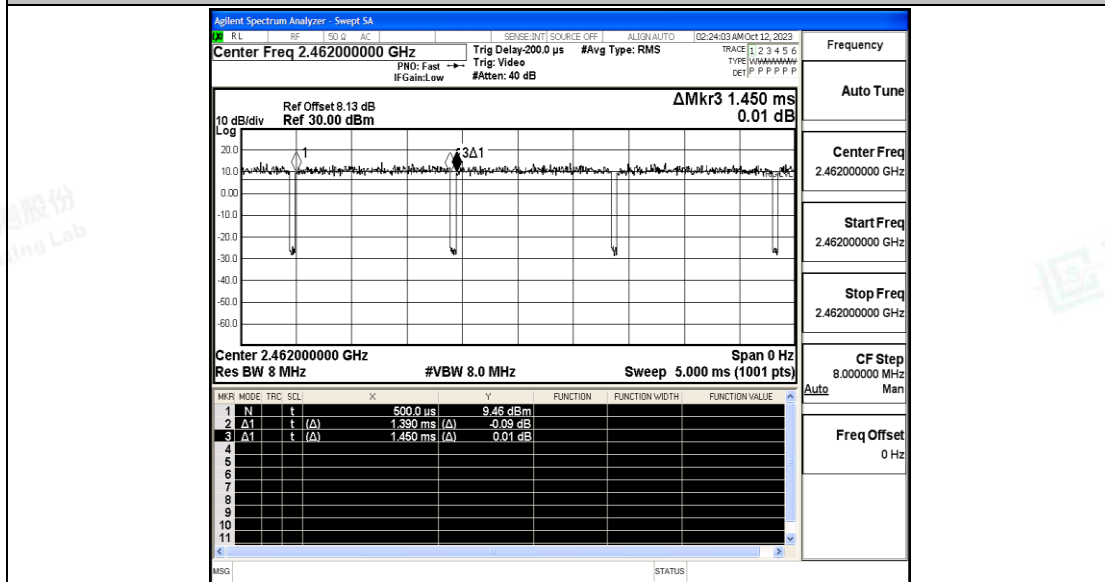




LCSA0013245ED



11G_Ant1_2462

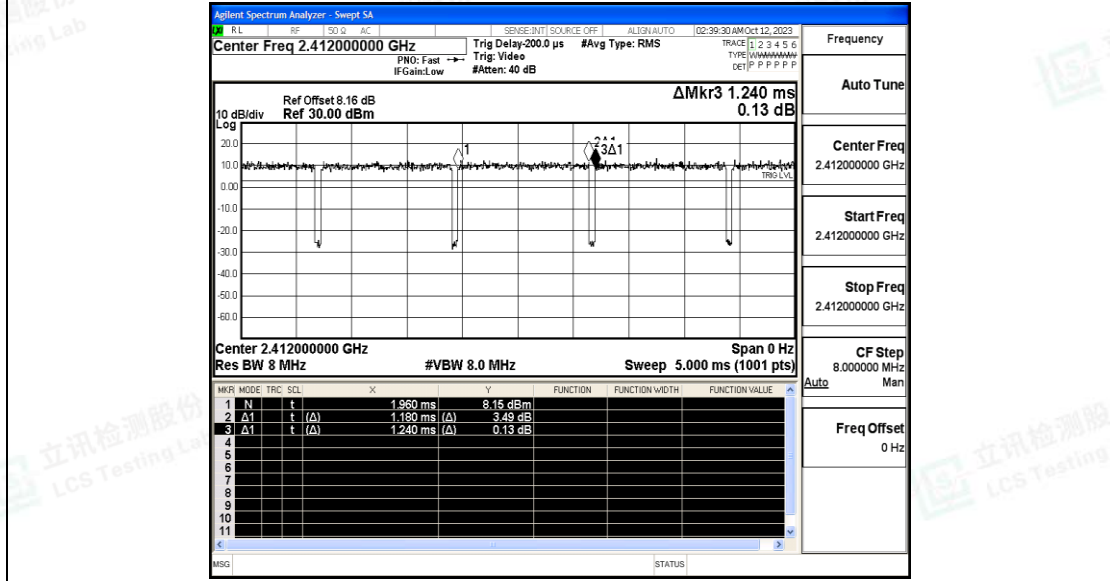


11N20SISO_Ant1_2412

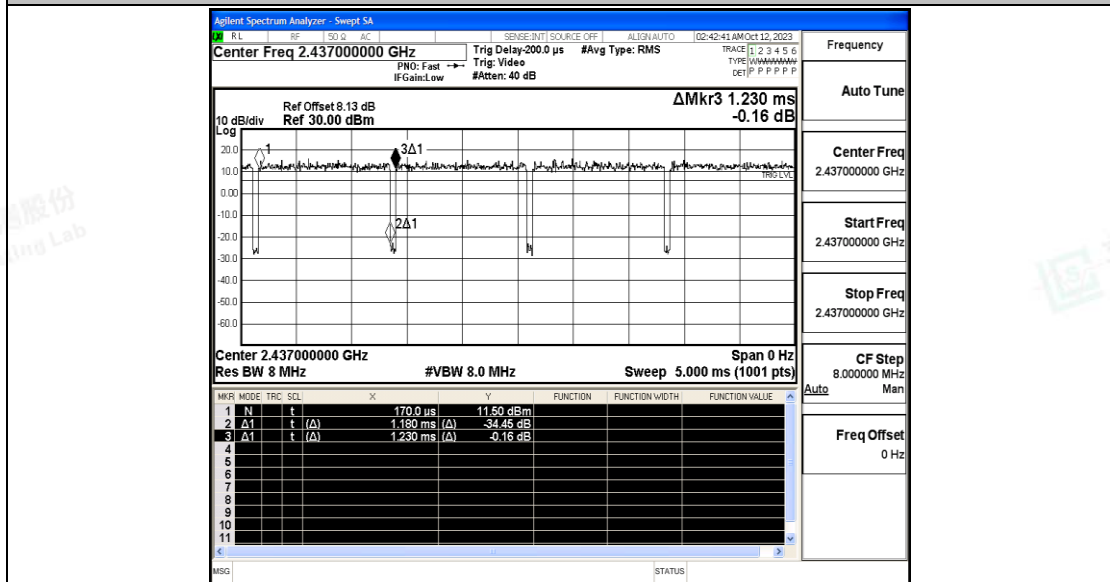




LCSA0013245ED



11N20SISO_Ant1_2437

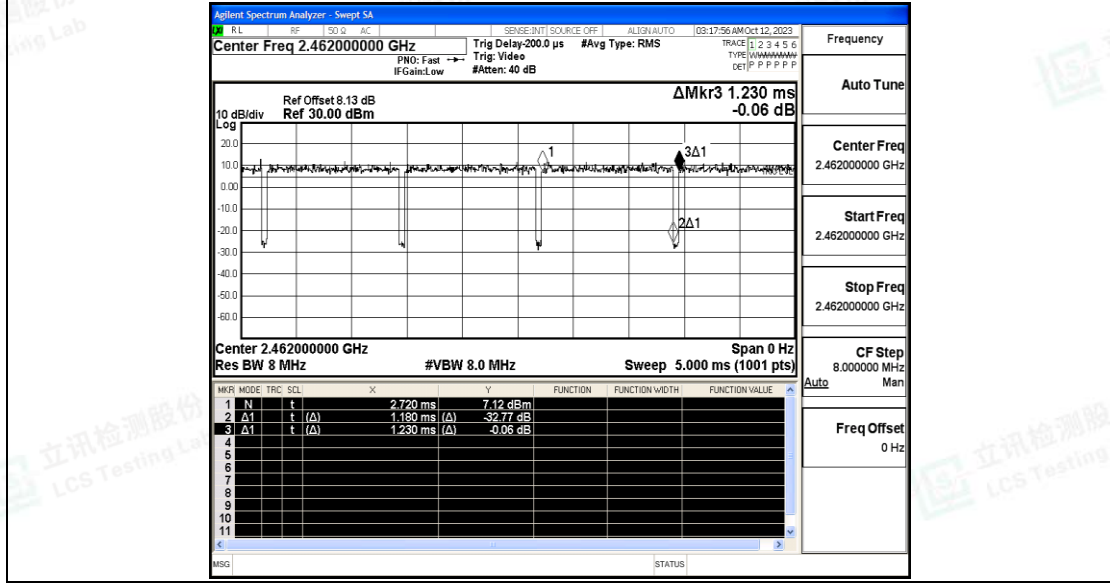


11N20SISO_Ant1_2462





LCSA00183245ED



**C.7 Emissions in Restricted Bands****Test Result**

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.34	≤-41.20	PASS
				AV	2389.310	-47.36	≤-41.20	PASS
				AV	2390.000	-47.57	≤-41.20	PASS
				Peak	2310.000	-43.01	≤-21.20	PASS
				Peak	2320.540	-38.35	≤-21.20	PASS
		Peak	2390.000	-39.11	≤-21.20	PASS		
		High	2462	AV	2483.500	-48.12	≤-41.20	PASS
				AV	2483.780	-48.12	≤-41.20	PASS
				AV	2500.000	-48.87	≤-41.20	PASS
				Peak	2483.500	-40.95	≤-21.20	PASS
Peak	2486.860			-39.67	≤-21.20	PASS		
11G	Ant1	Low	2412	AV	2310.000	-48.84	≤-41.20	PASS
				AV	2389.960	-44.5	≤-41.20	PASS
				AV	2390.000	-44.5	≤-41.20	PASS
				Peak	2310.000	-43.08	≤-21.20	PASS
				Peak	2389.310	-30.75	≤-21.20	PASS
		Peak	2390.000	-37.2	≤-21.20	PASS		
		High	2462	AV	2483.500	-45.9	≤-41.20	PASS
				AV	2483.560	-45.93	≤-41.20	PASS
				AV	2500.000	-48.42	≤-41.20	PASS
				Peak	2483.500	-36.72	≤-21.20	PASS
Peak	2484.110			-36.46	≤-21.20	PASS		
Peak	2500.000	-41.66	≤-21.20	PASS				
11N20SI SO	Ant1	Low	2412	AV	2310.000	-48.73	≤-41.20	PASS
				AV	2389.960	-45.93	≤-41.20	PASS
				AV	2390.000	-45.93	≤-41.20	PASS
				Peak	2310.000	-42.97	≤-21.20	PASS
		Peak	2387.230	-38.71	≤-21.20	PASS		
		Peak	2390.000	-41.17	≤-21.20	PASS		
		High	2462	AV	2483.500	-44.77	≤-41.20	PASS
				AV	2483.560	-45.09	≤-41.20	PASS
AV	2500.000			-48.27	≤-41.20	PASS		
Peak	2483.500			-35.95	≤-21.20	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



LCSA00183245ED

		Peak	2485.540	-32.1	≤-21.20	PASS
		Peak	2500.000	-43.25	≤-21.20	PASS

Note:

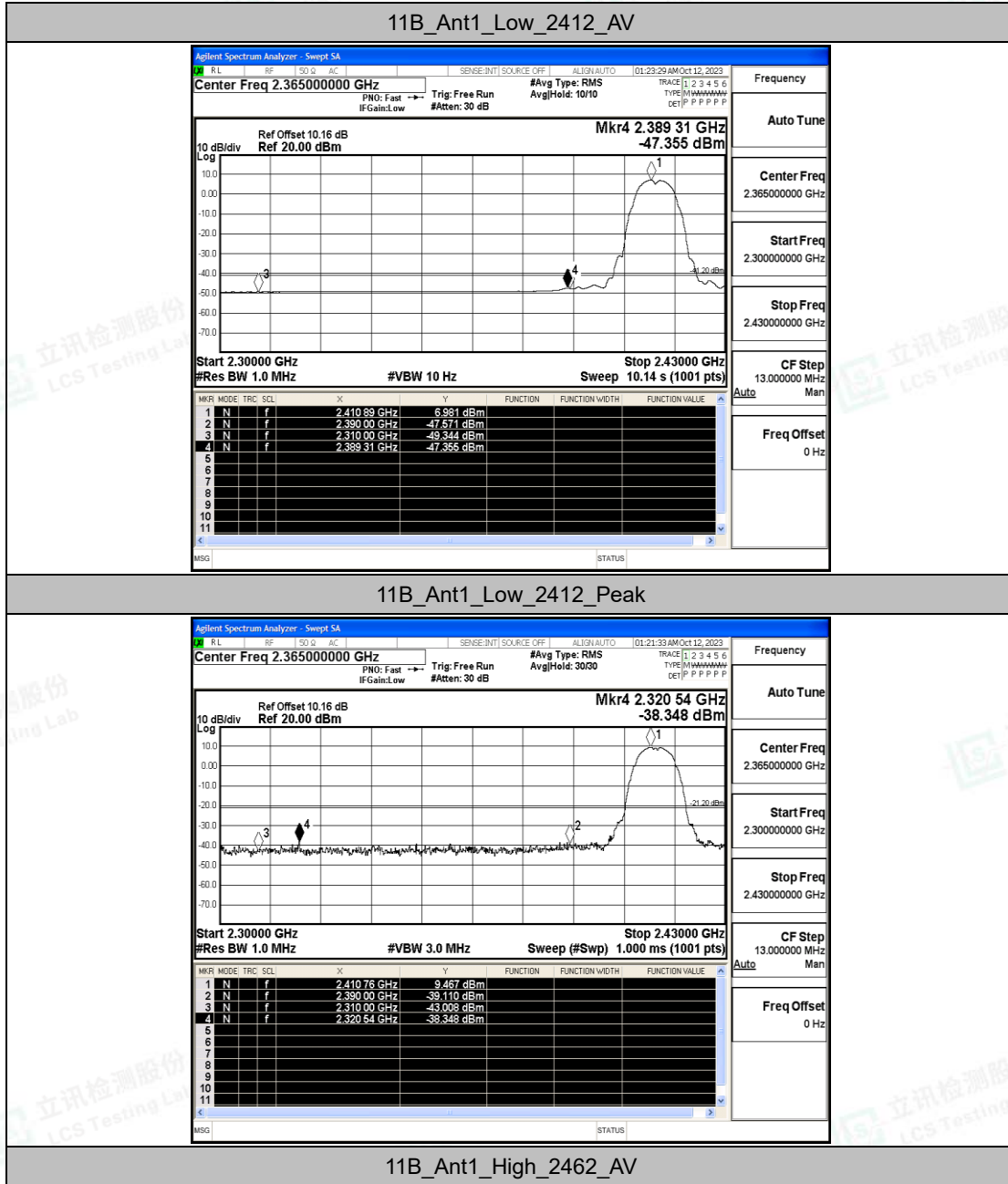
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





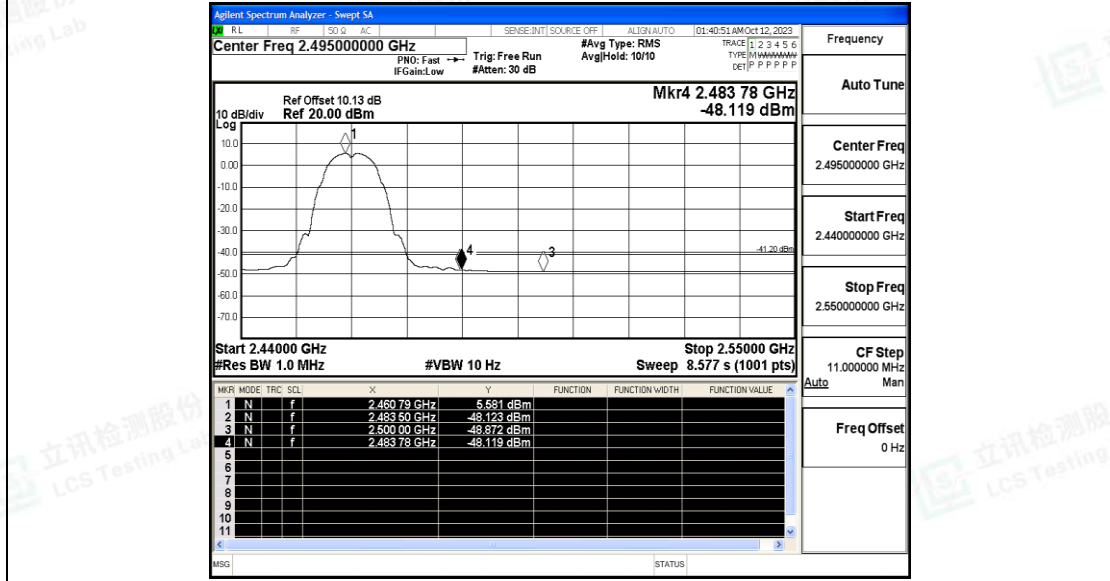
LCS-01-245ED

Test Graphs

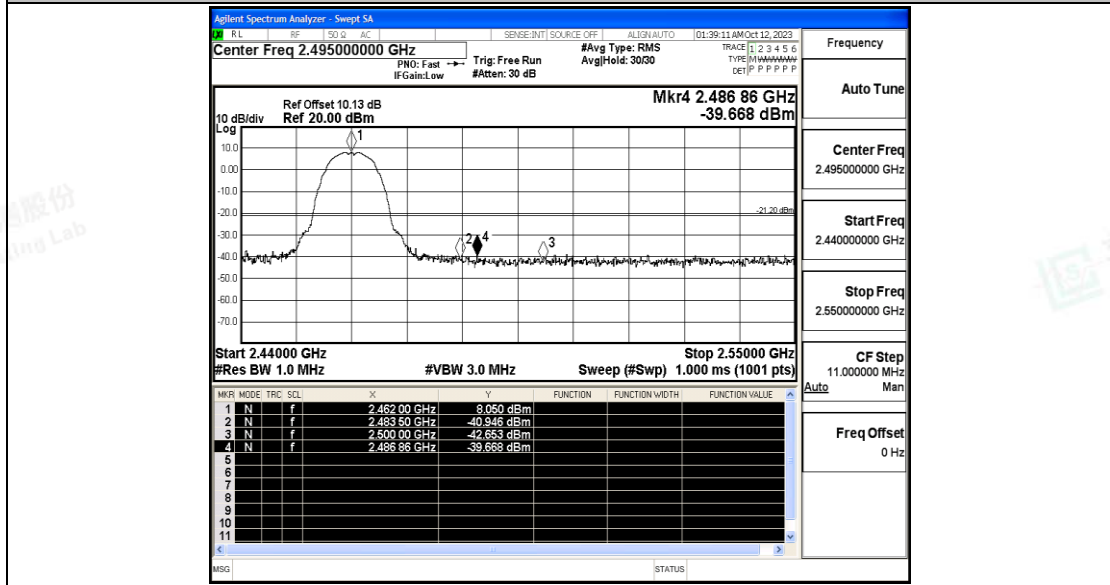




LCSA0013245ED



11B_Ant1_High_2462_Peak

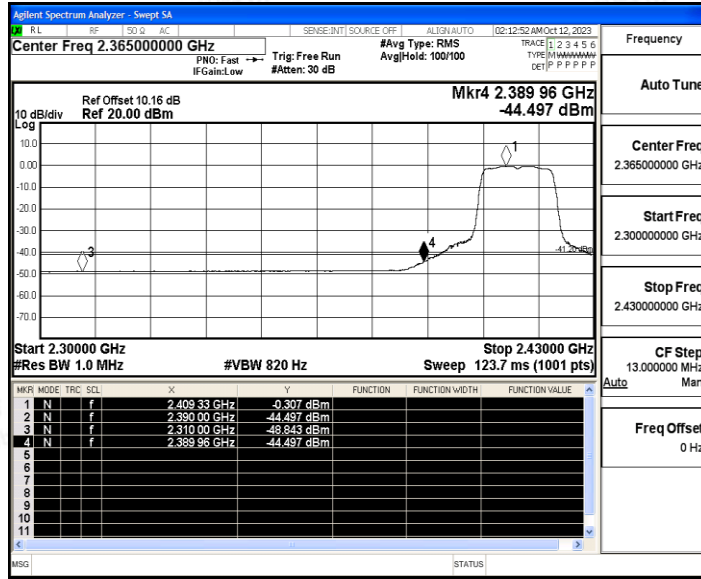


11G_Ant1_Low_2412_AV

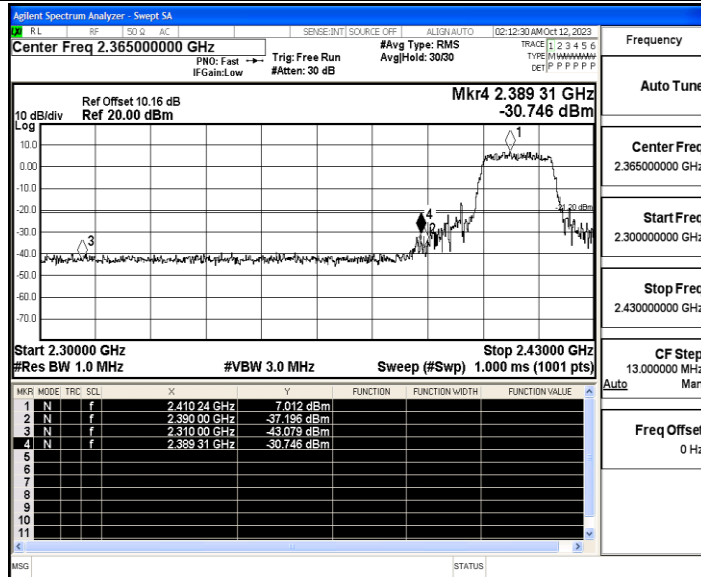




LCSA0013245ED



11G_Ant1_Low_2412_Peak

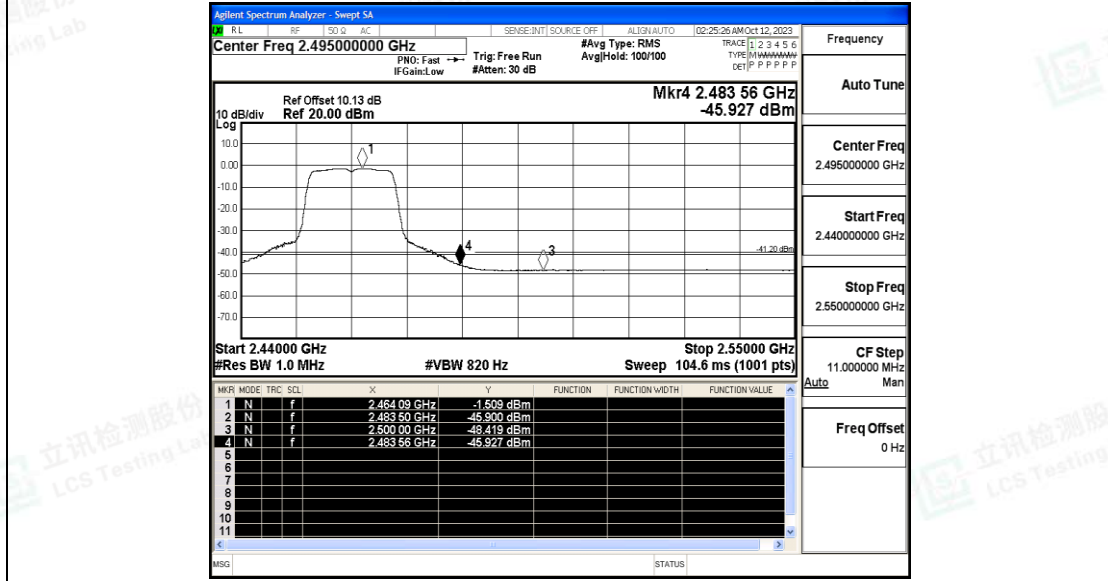


11G_Ant1_High_2462_AV

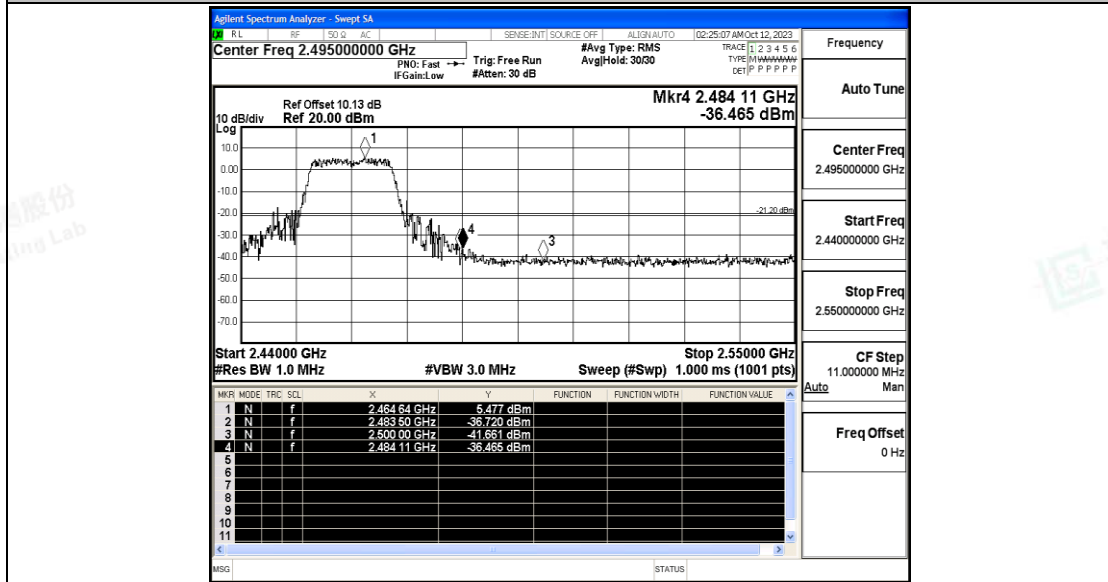




LCSA0013245ED



11G_Ant1_High_2462_Peak

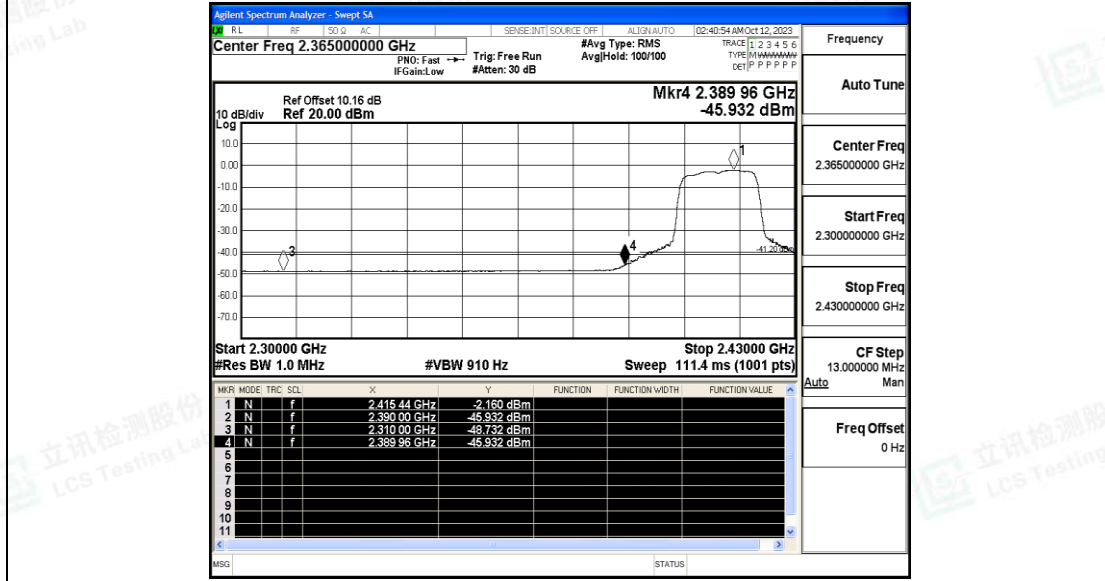


11N20SISO_Ant1_Low_2412_AV

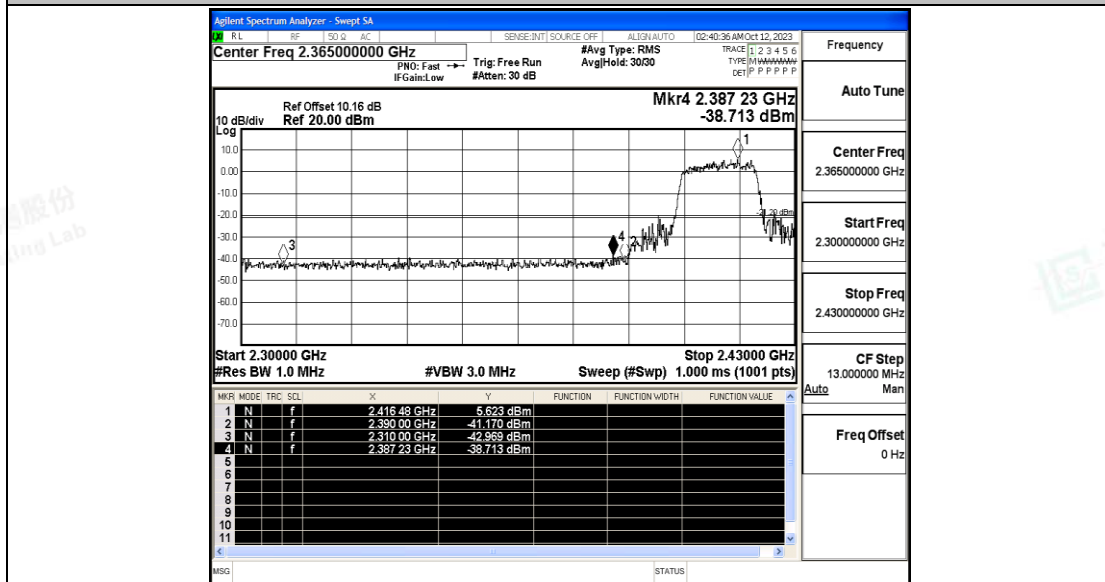




LCSA0013245ED



11N20SISO_Ant1_Low_2412_Peak

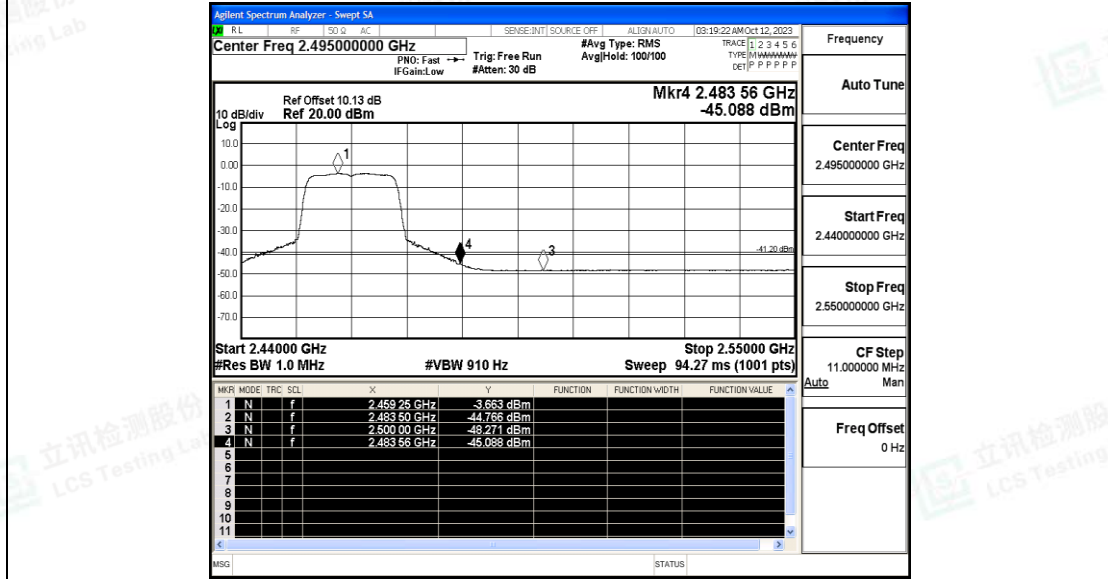


11N20SISO_Ant1_High_2462_AV





LCSA0013245ED



11N20SISO_Ant1_High_2462_Peak

