



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Camera

Test Model: NHC01

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>LiHuan</i> Li Huan





B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.680	2453.160	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.000	2404.080	2440.080	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	36.080	2434.080	2470.160	0.5	PASS

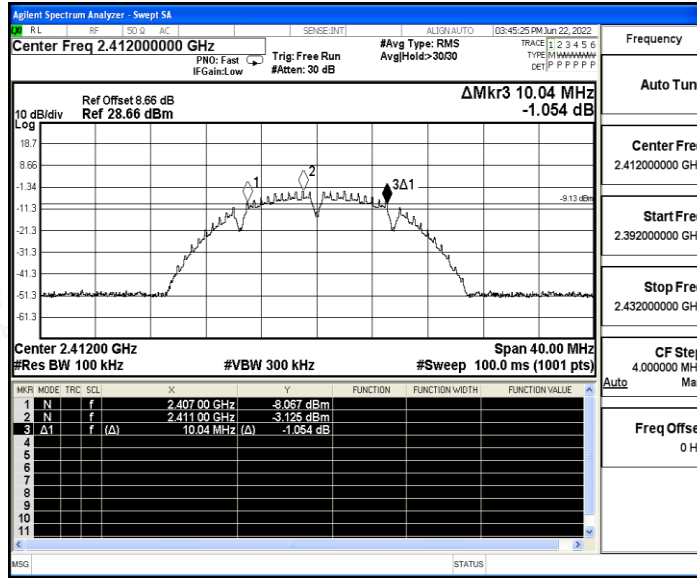


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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

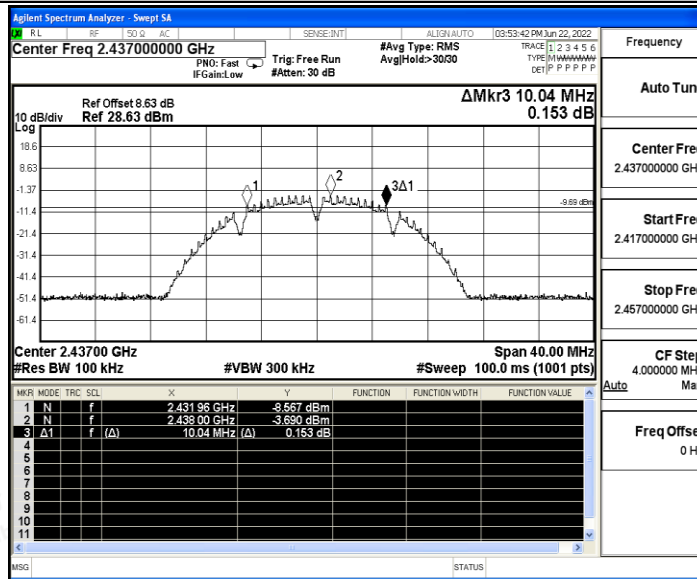


Test Graphs

11B_Ant1_2412

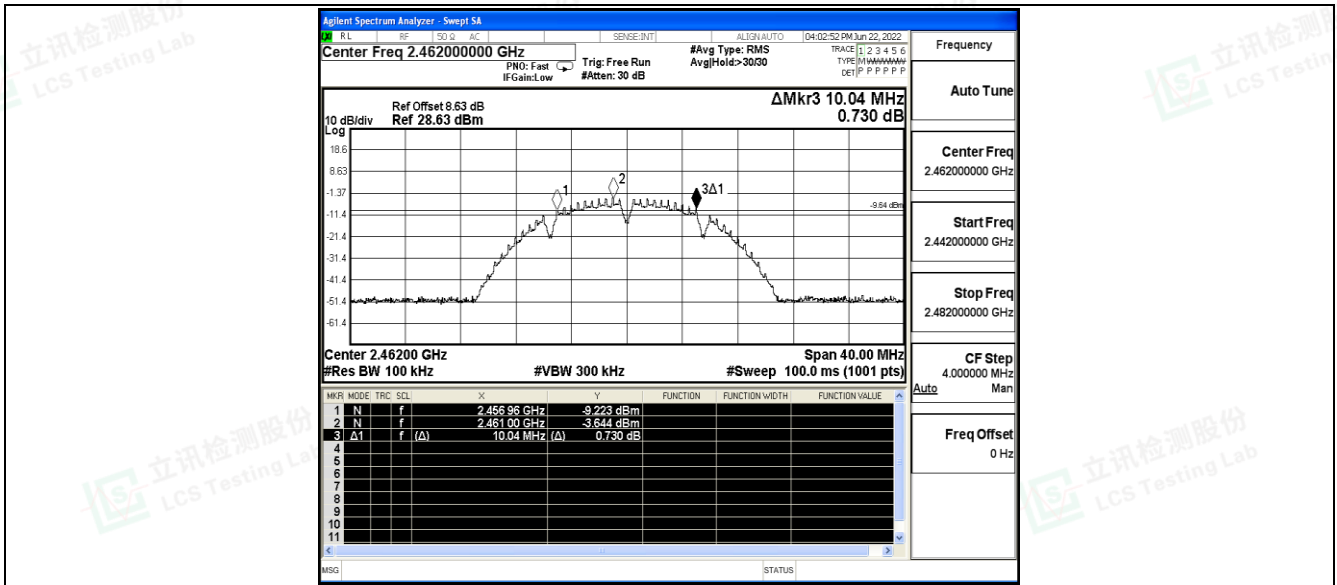


11B_Ant1_2437

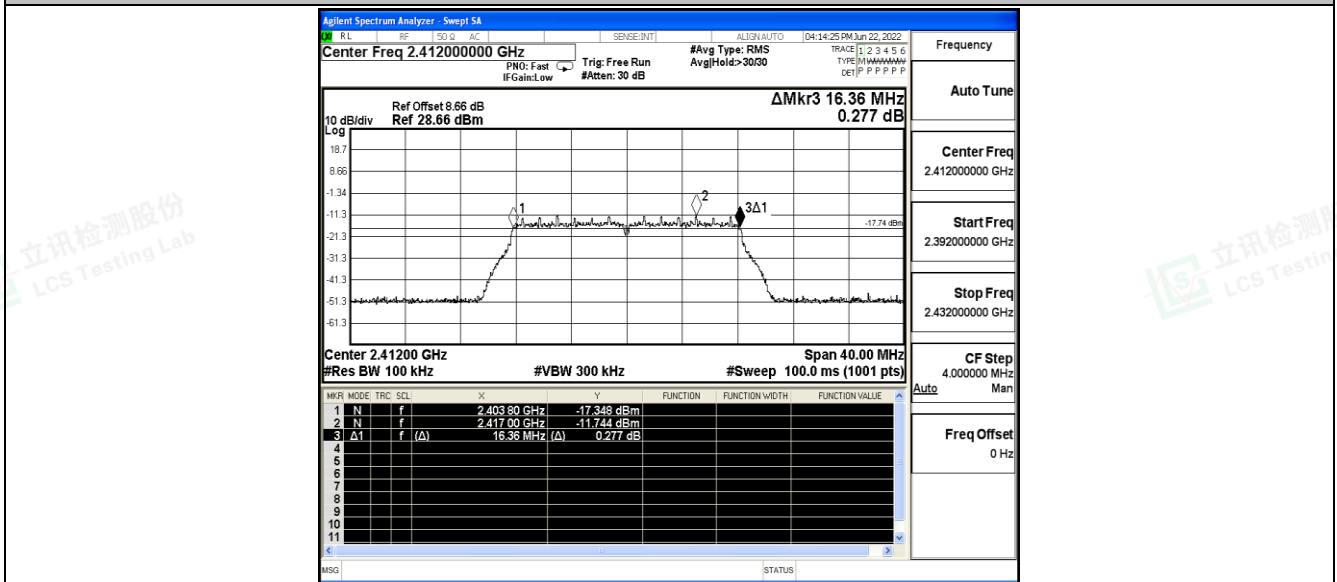


11B_Ant1_2462



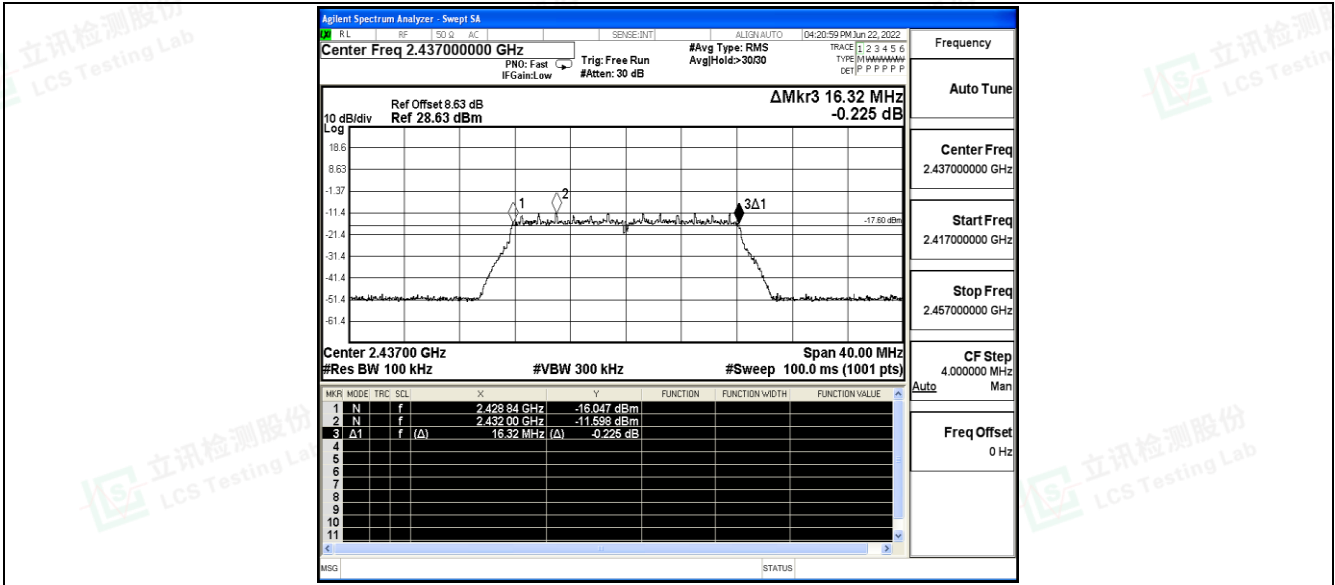


11G_Ant1_2412

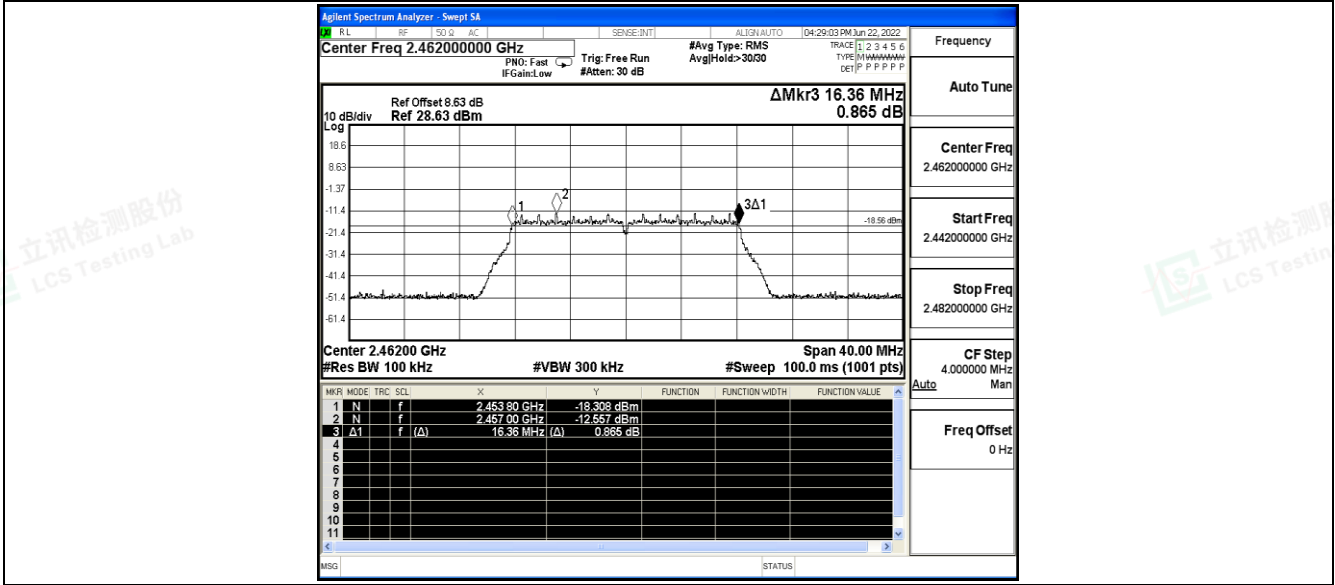


11G_Ant1_2437



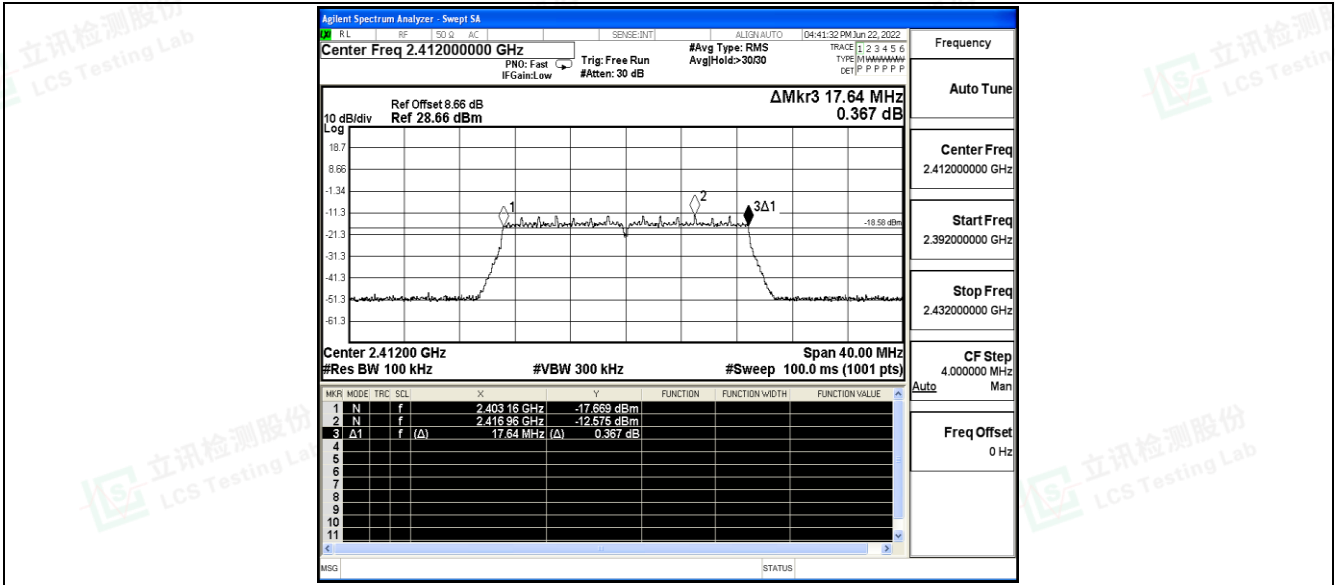


11G_Ant1_2462

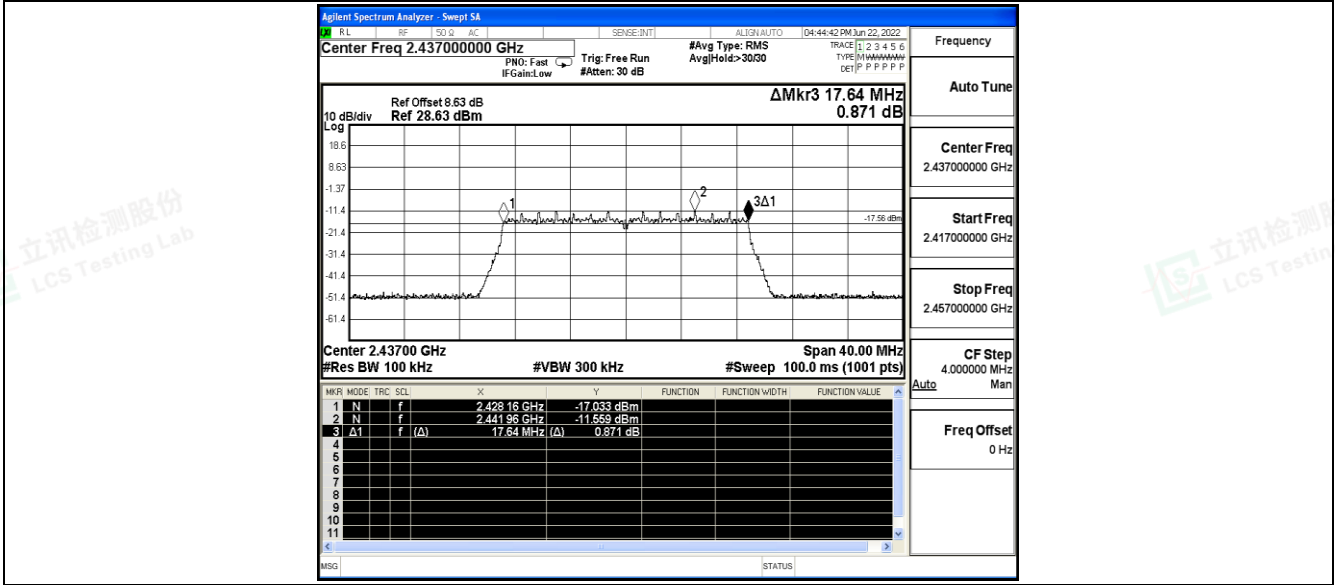


11N20SISO_Ant1_2412



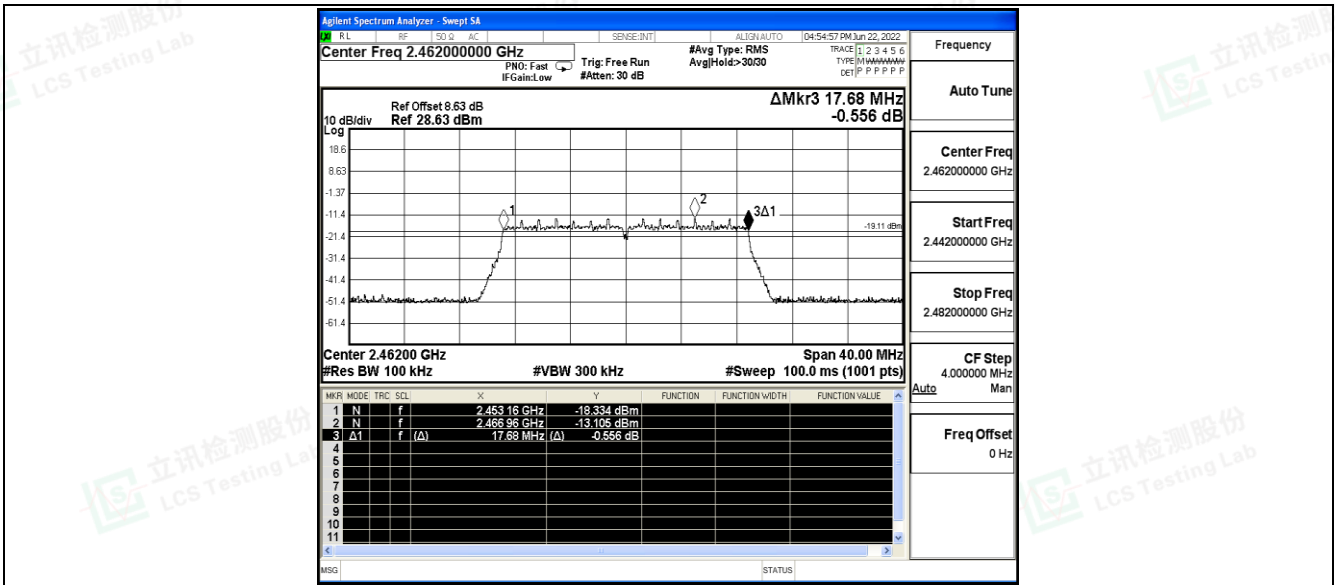


11N20SISO_Ant1_2437

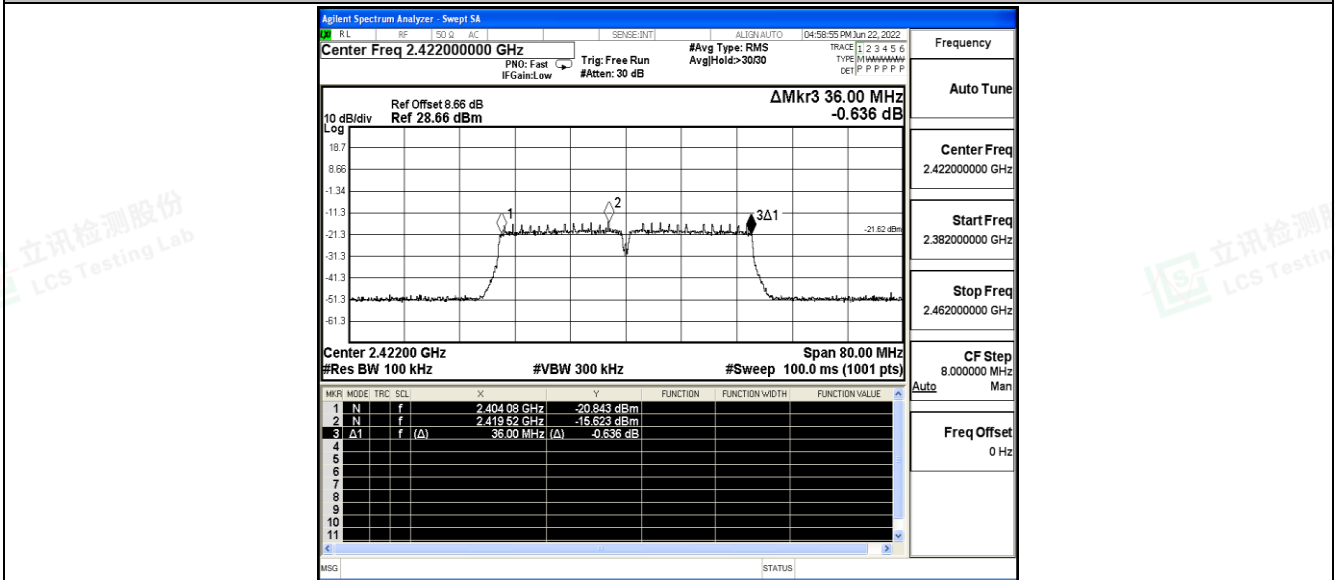


11N20SISO_Ant1_2462



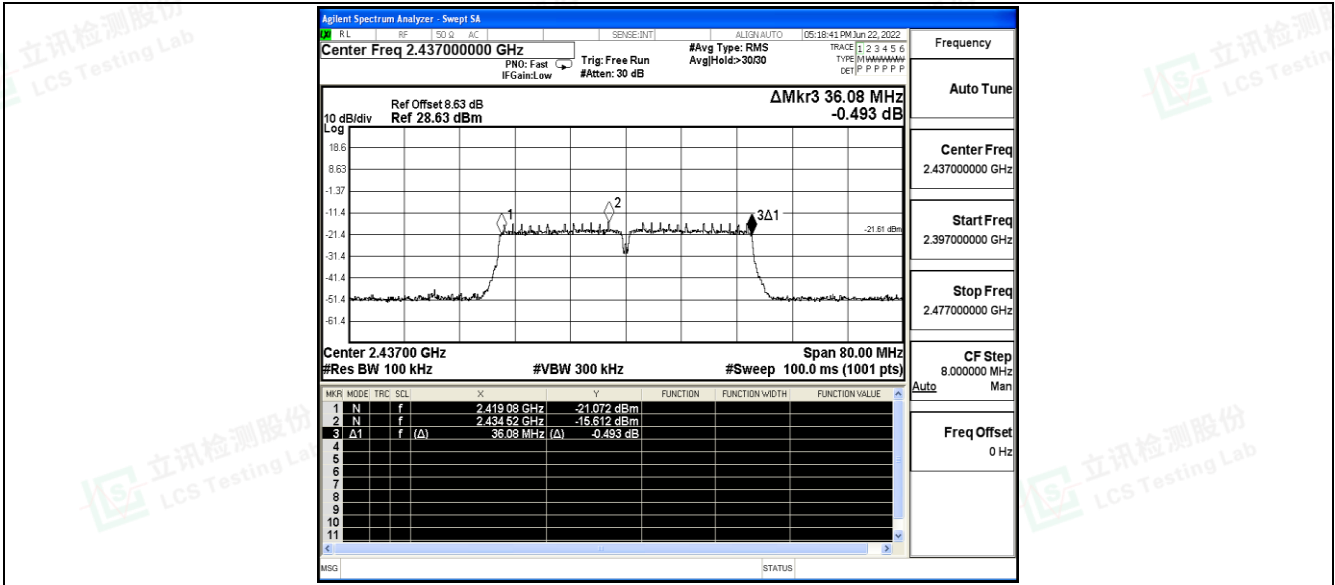


11N40SISO_Ant1_2422

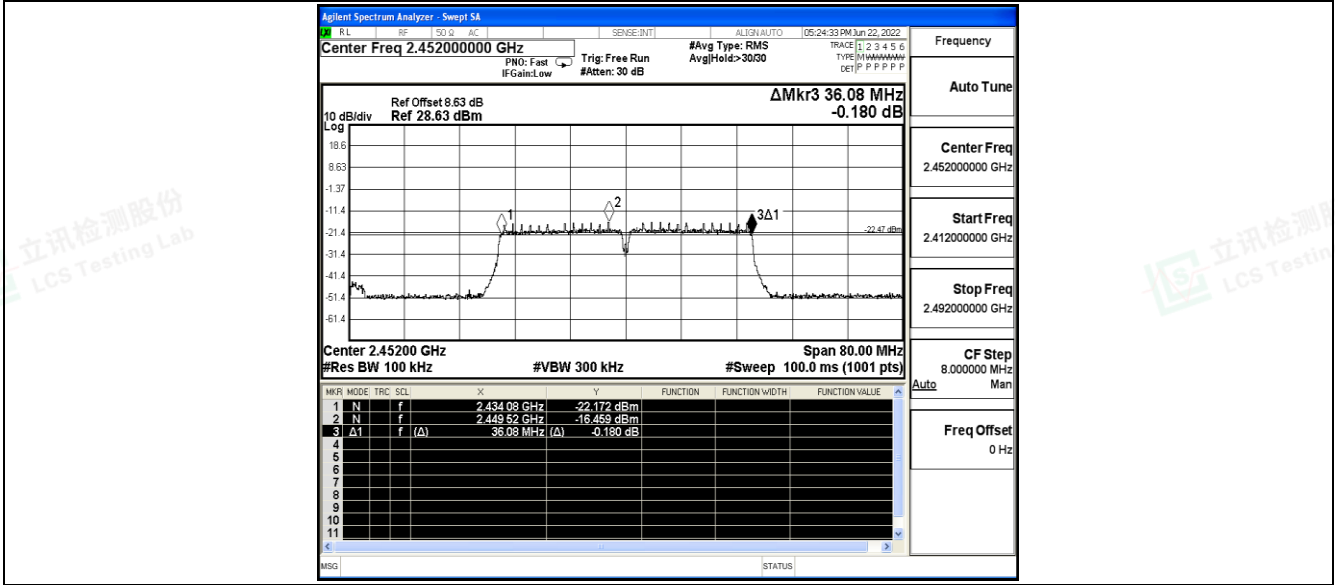


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	8.85	≤30.00	PASS
		2437	8.28	≤30.00	PASS
		2462	8.57	≤30.00	PASS
11G	Ant1	2412	7.83	≤30.00	PASS
		2437	7.90	≤30.00	PASS
		2462	6.97	≤30.00	PASS
11N20SISO	Ant1	2412	7.03	≤30.00	PASS
		2437	7.87	≤30.00	PASS
		2462	6.47	≤30.00	PASS
11N40SISO	Ant1	2422	6.61	≤30.00	PASS
		2437	6.71	≤30.00	PASS
		2452	5.94	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

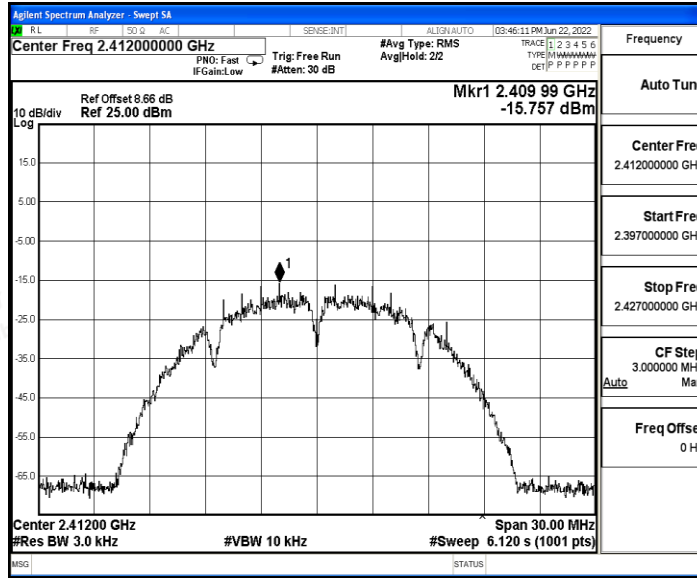
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.76	≤8.00	PASS
		2437	-16.89	≤8.00	PASS
		2462	-18.45	≤8.00	PASS
11G	Ant1	2412	-20.31	≤8.00	PASS
		2437	-21.36	≤8.00	PASS
		2462	-26.52	≤8.00	PASS
11N20SISO	Ant1	2412	-25.46	≤8.00	PASS
		2437	-20.98	≤8.00	PASS
		2462	-27.72	≤8.00	PASS
11N40SISO	Ant1	2422	-30.02	≤8.00	PASS
		2437	-28.91	≤8.00	PASS
		2452	-30.72	≤8.00	PASS



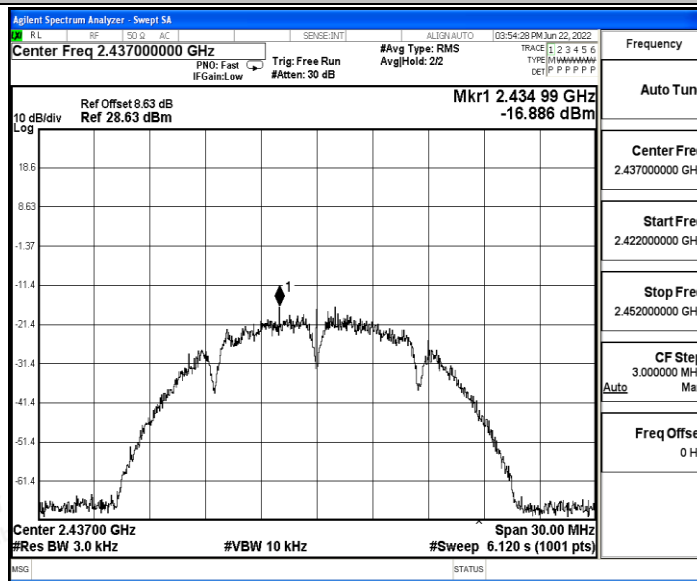


Test Graphs

11B_Ant1_2412

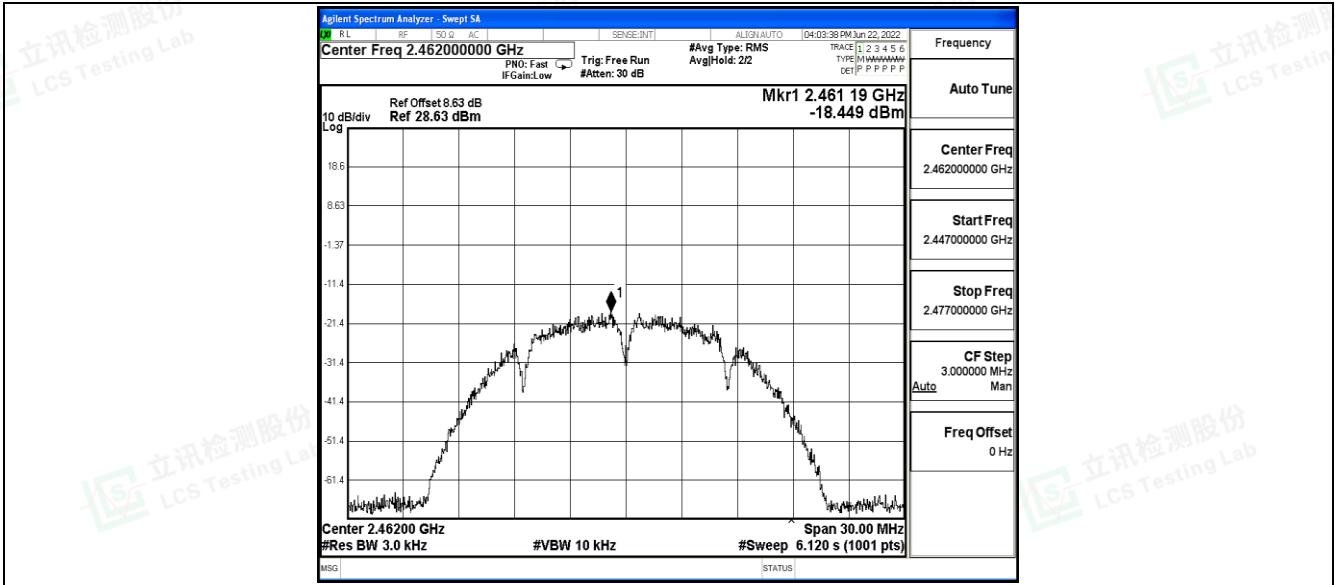


11B_Ant1_2437

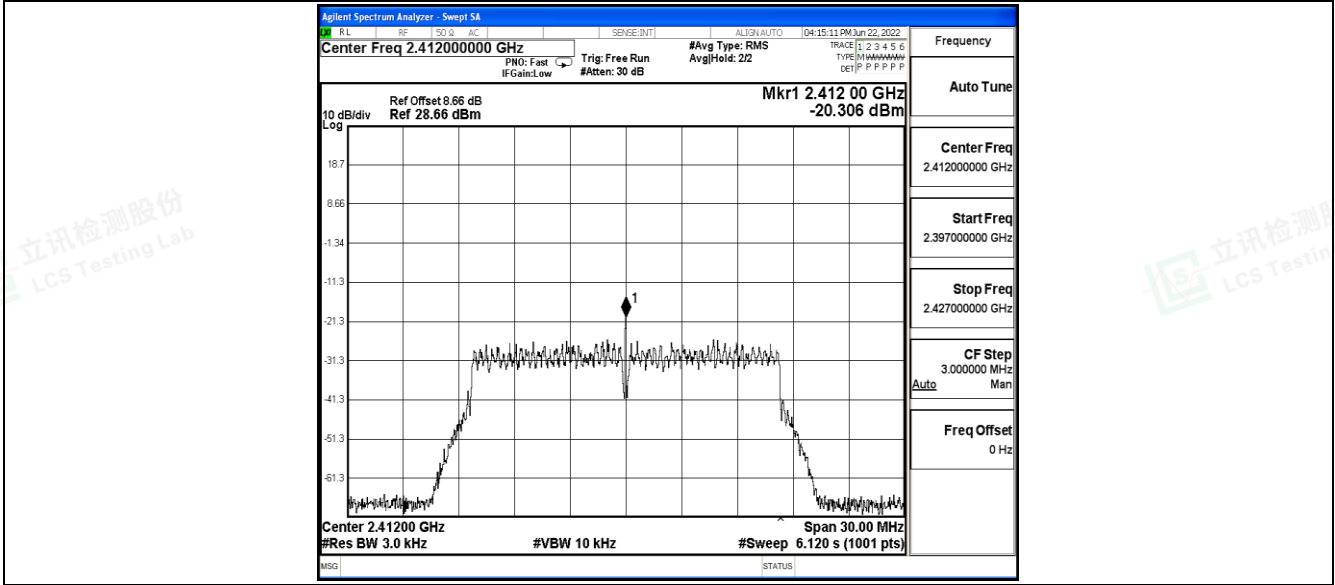


11B_Ant1_2462



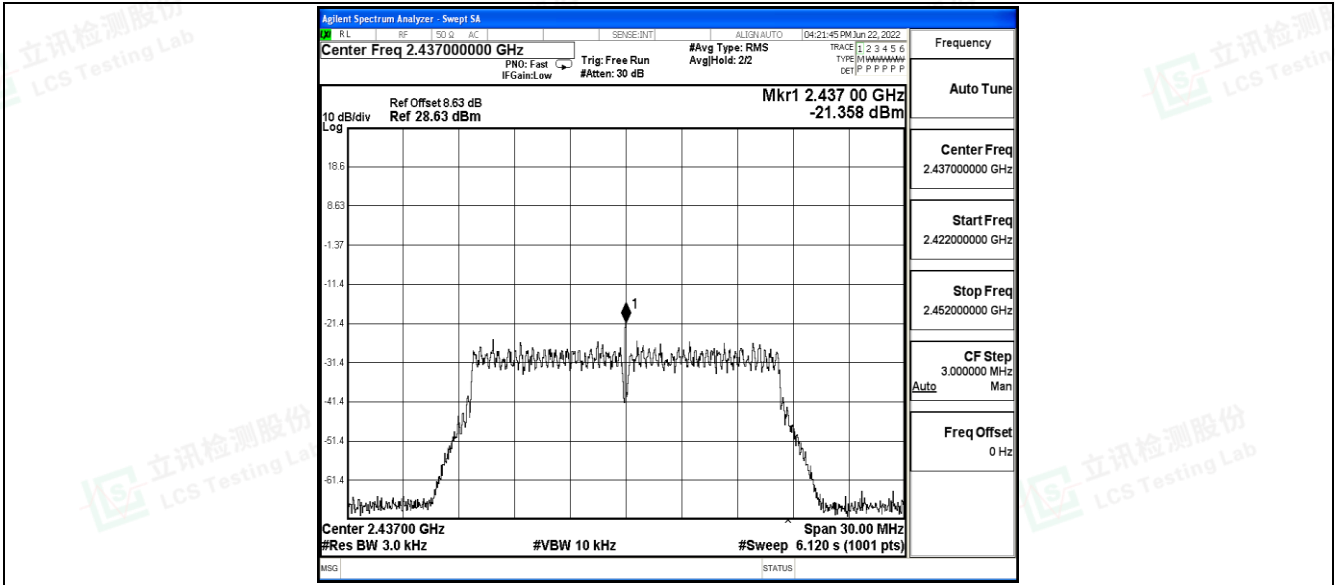


11G_Ant1_2412

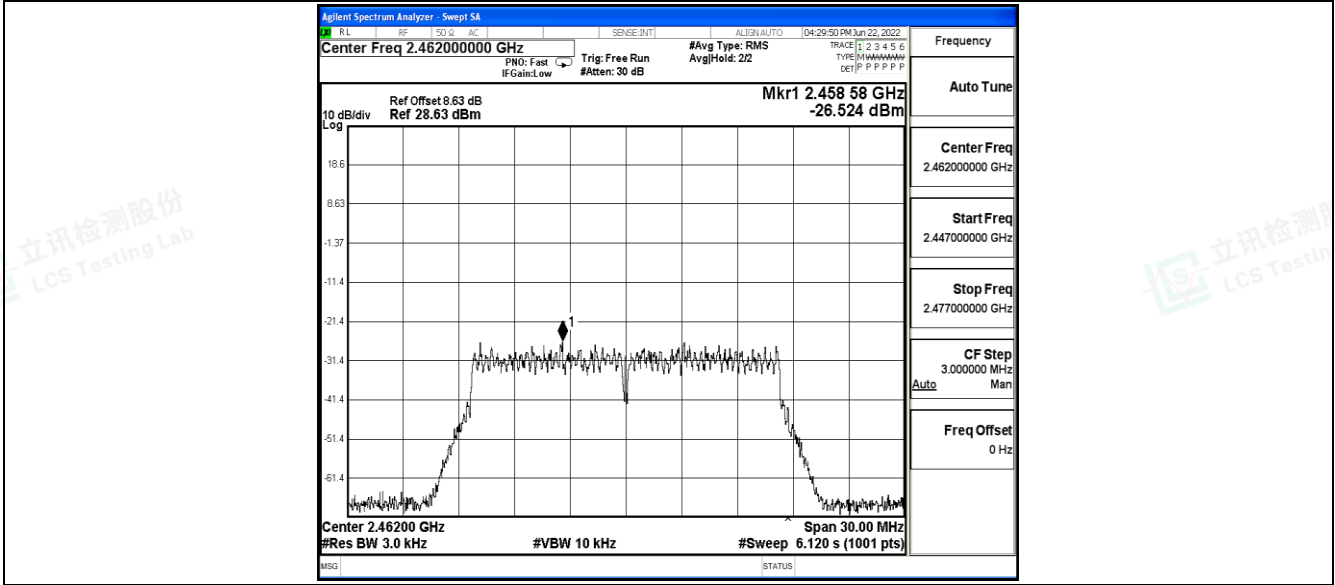


11G_Ant1_2437



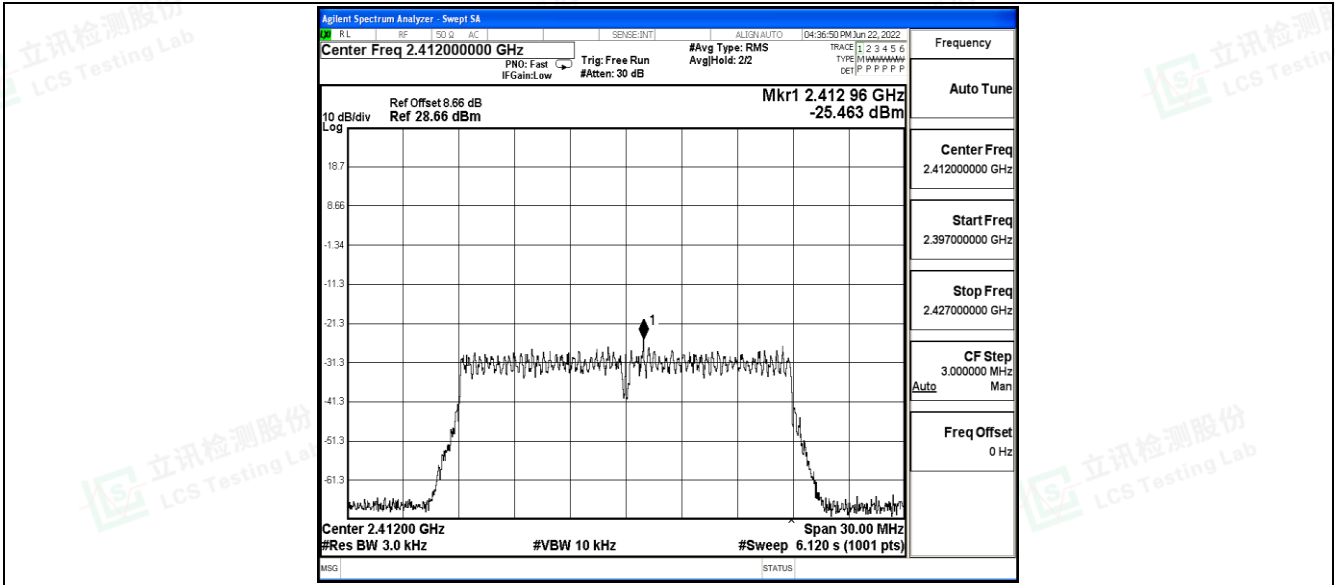


11G_Ant1_2462

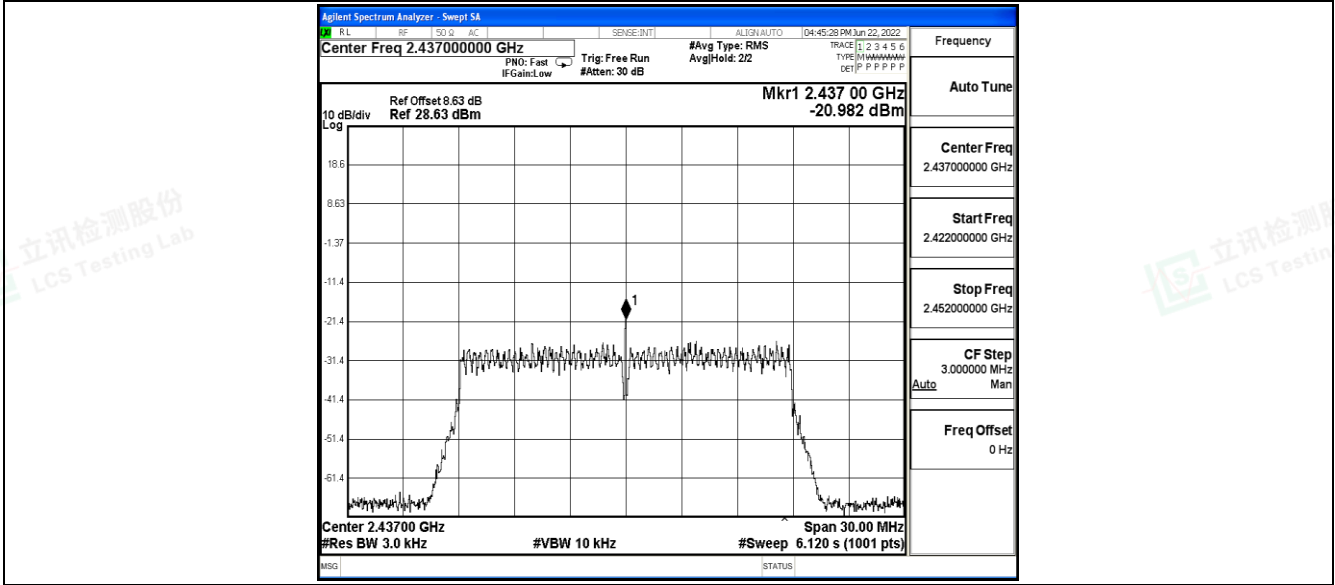


11N20SISO_Ant1_2412



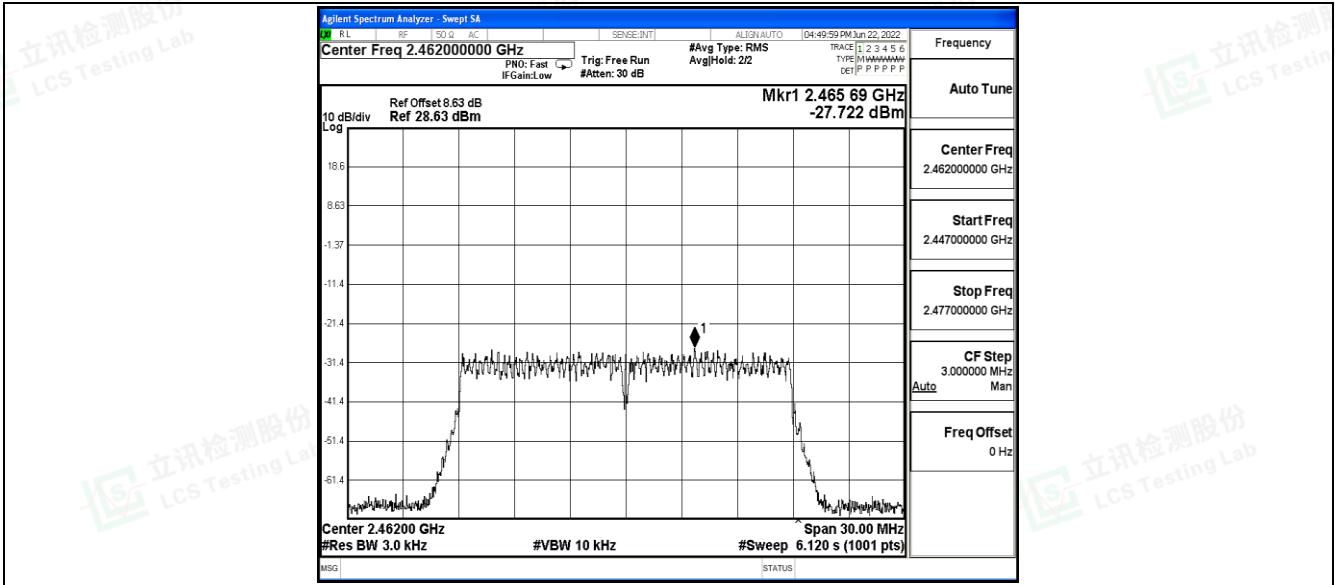


11N20SISO_Ant1_2437

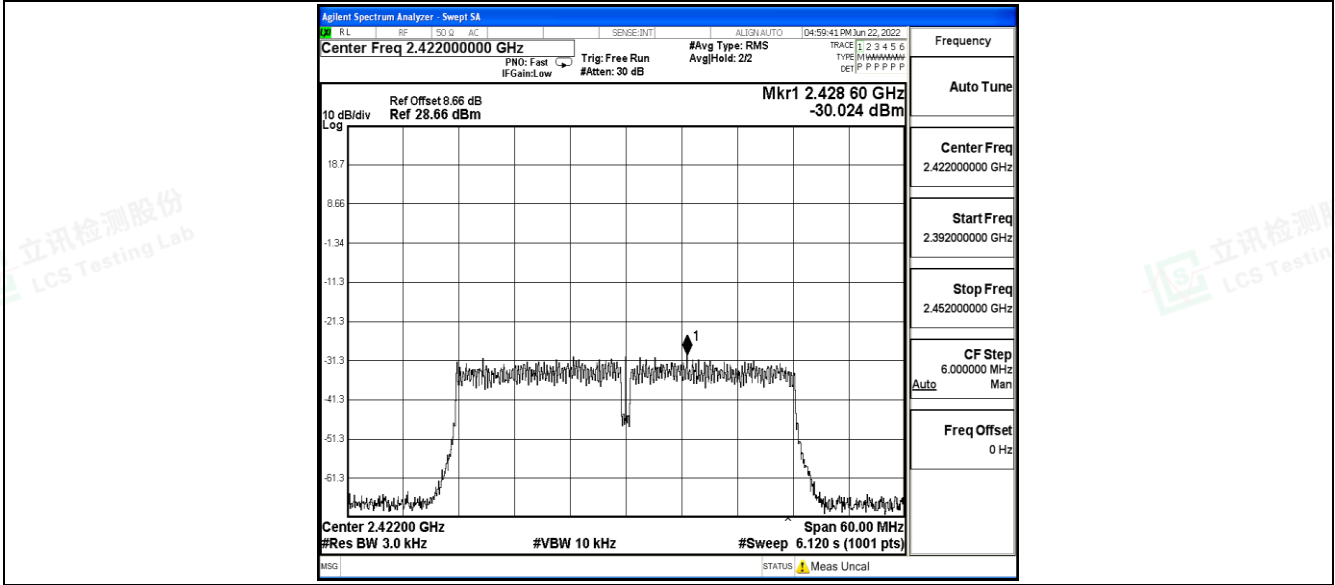


11N20SISO_Ant1_2462



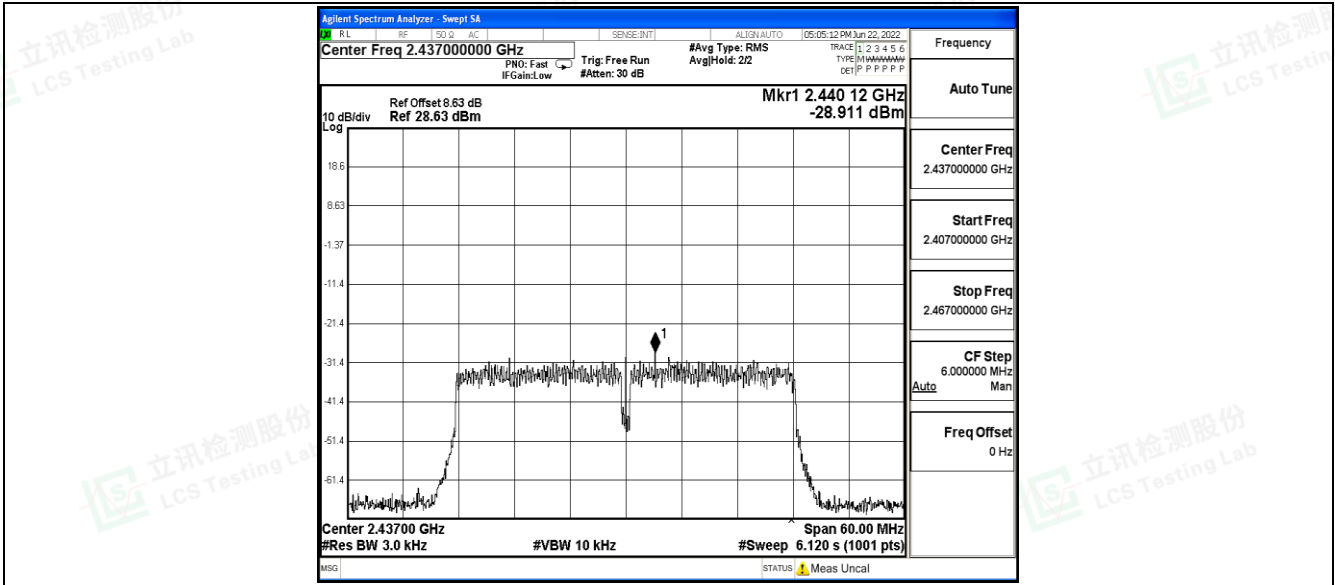


11N40SISO_Ant1_2422

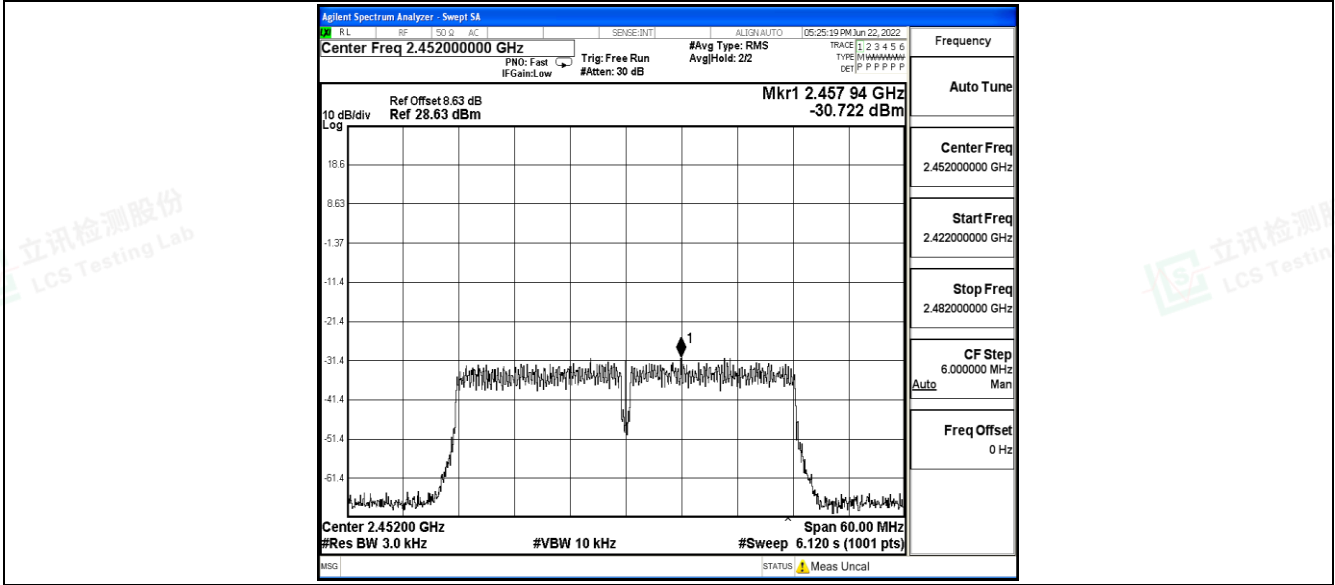


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-3.16	-48.95	≤-23.16	PASS
		High	2462	-3.63	-47.59	≤-23.63	PASS
11G	Ant1	Low	2412	-11.45	-48	≤-31.45	PASS
		High	2462	-12.34	-48.27	≤-32.34	PASS
11N20SISO	Ant1	Low	2412	-12.20	-48.68	≤-32.2	PASS
		High	2462	-12.81	-47.56	≤-32.81	PASS
11N40SISO	Ant1	Low	2422	-15.80	-48.52	≤-35.8	PASS
		High	2452	-16.31	-47.96	≤-36.31	PASS

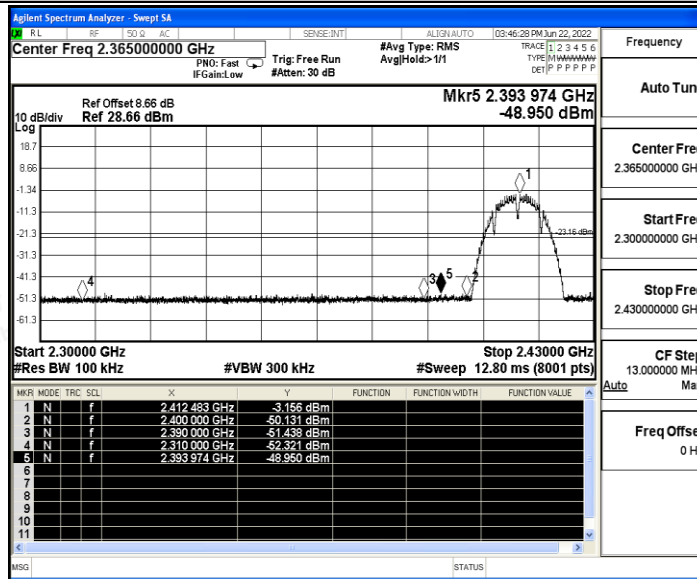


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Scan code to check authenticity

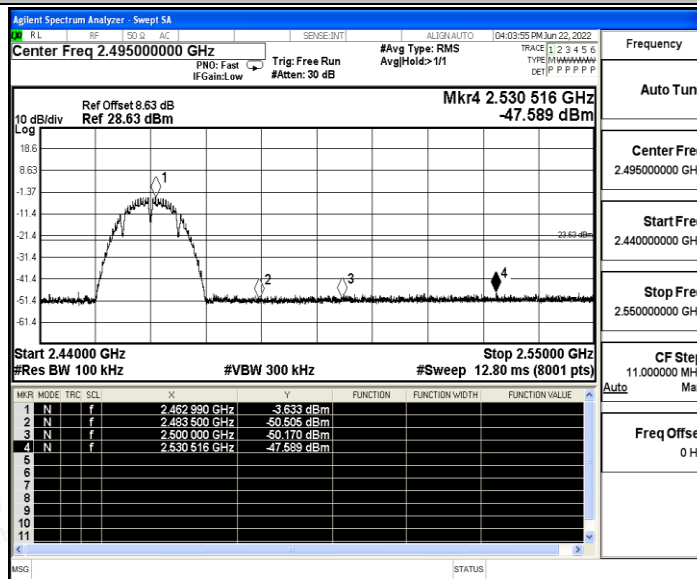


Test Graphs

11B_Ant1_Low_2412

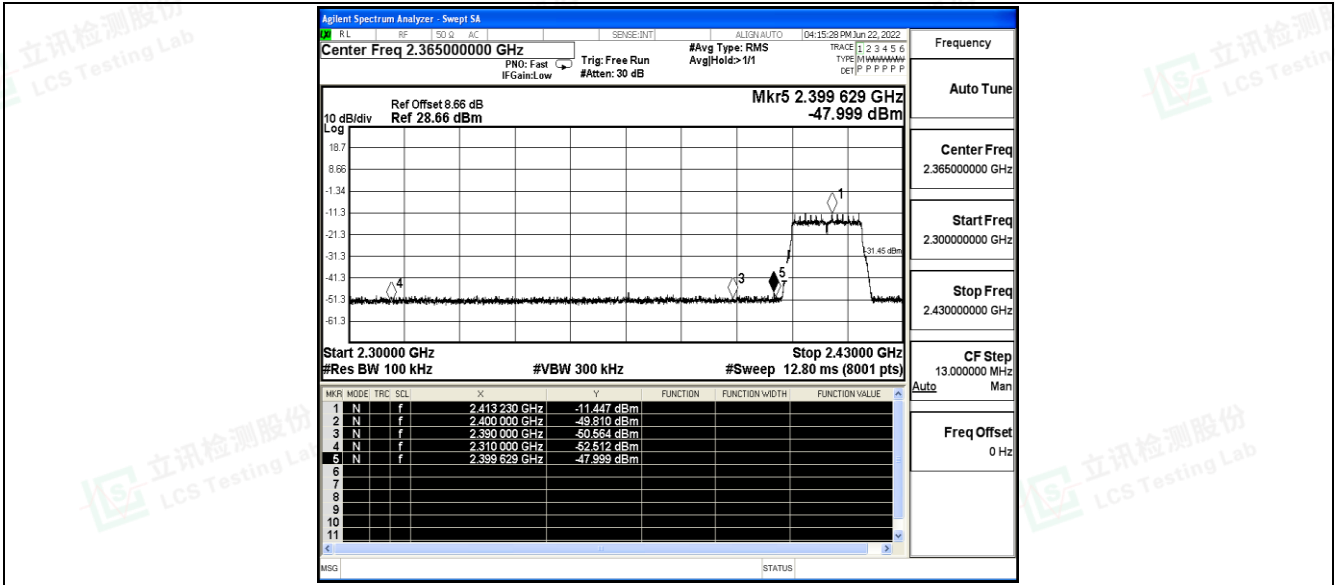


11B_Ant1_High_2462

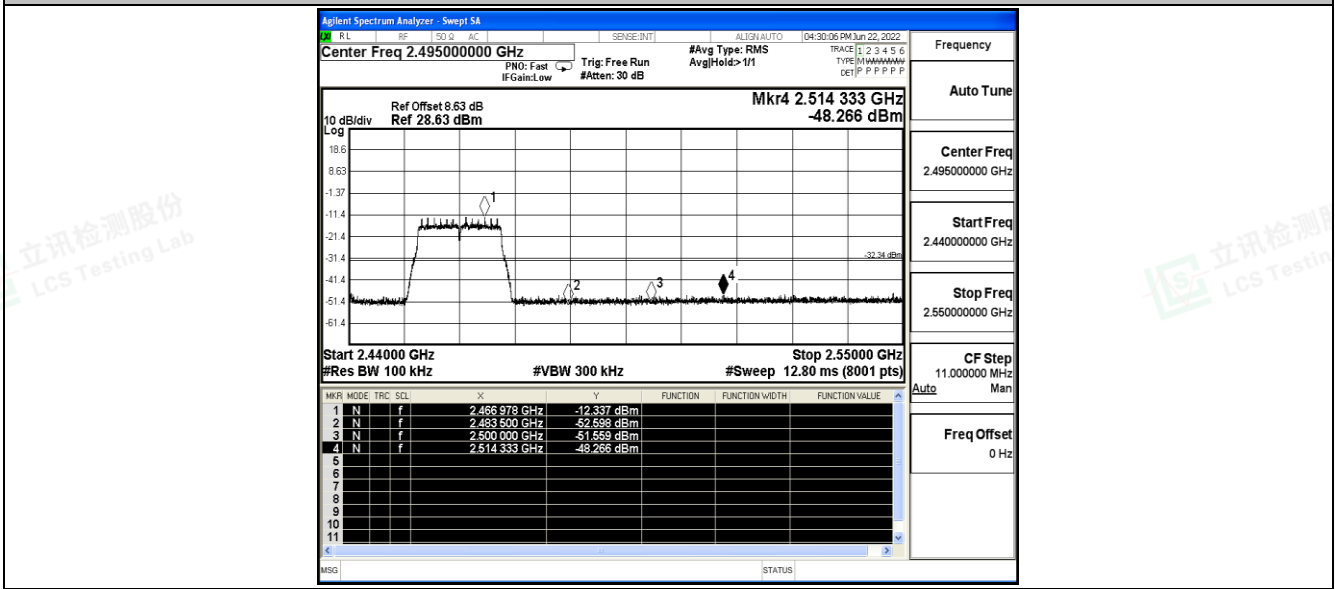


11G_Ant1_Low_2412



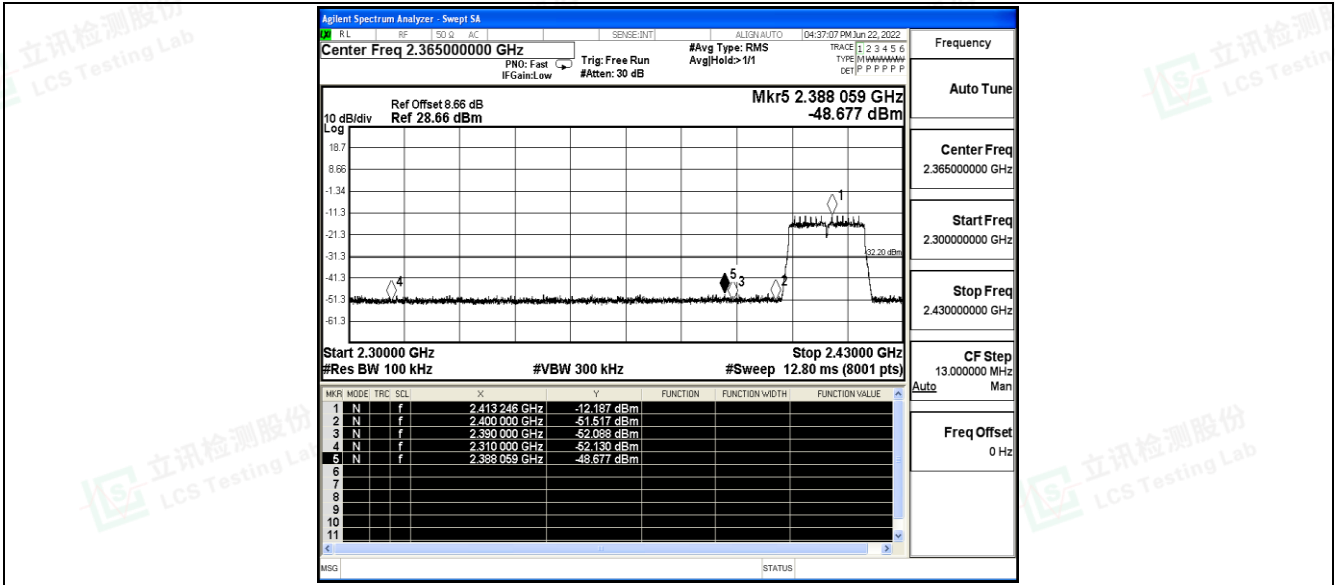


11G_Ant1_High_2462

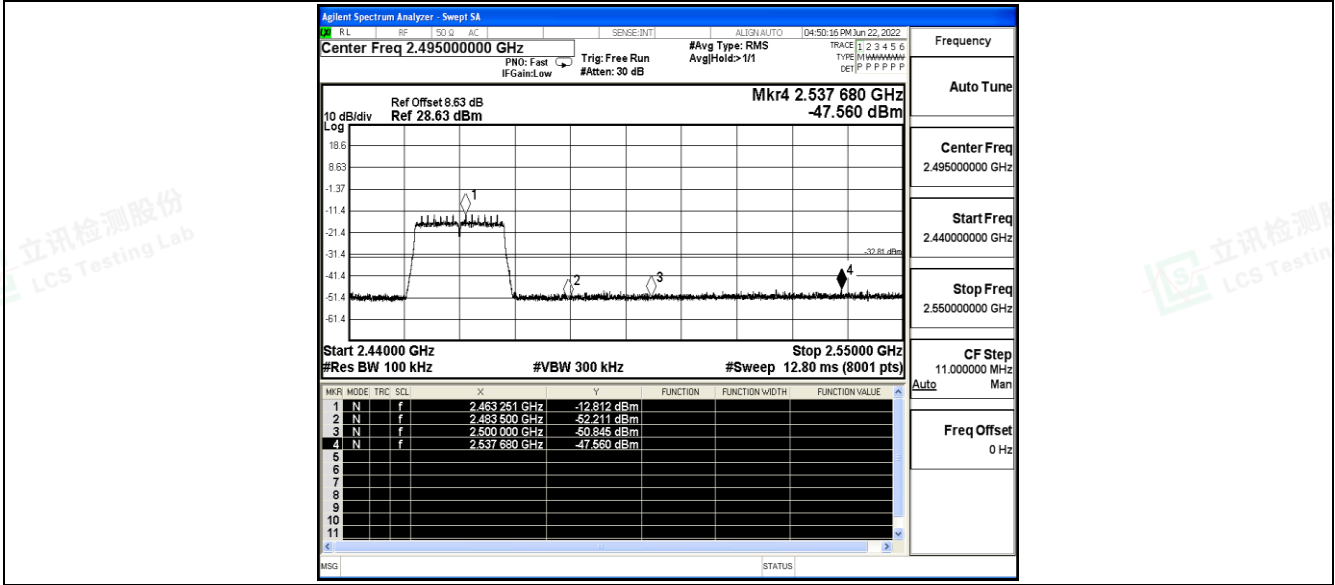


11N20SISO_Ant1_Low_2412



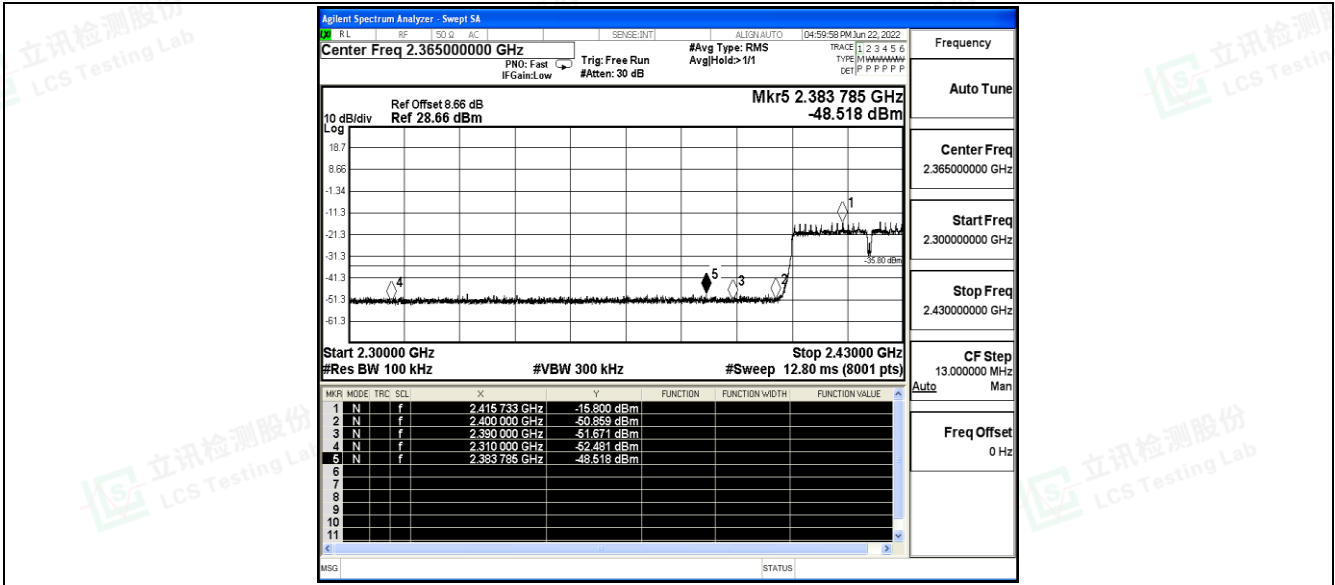


11N20SISO_Ant1_High_2462

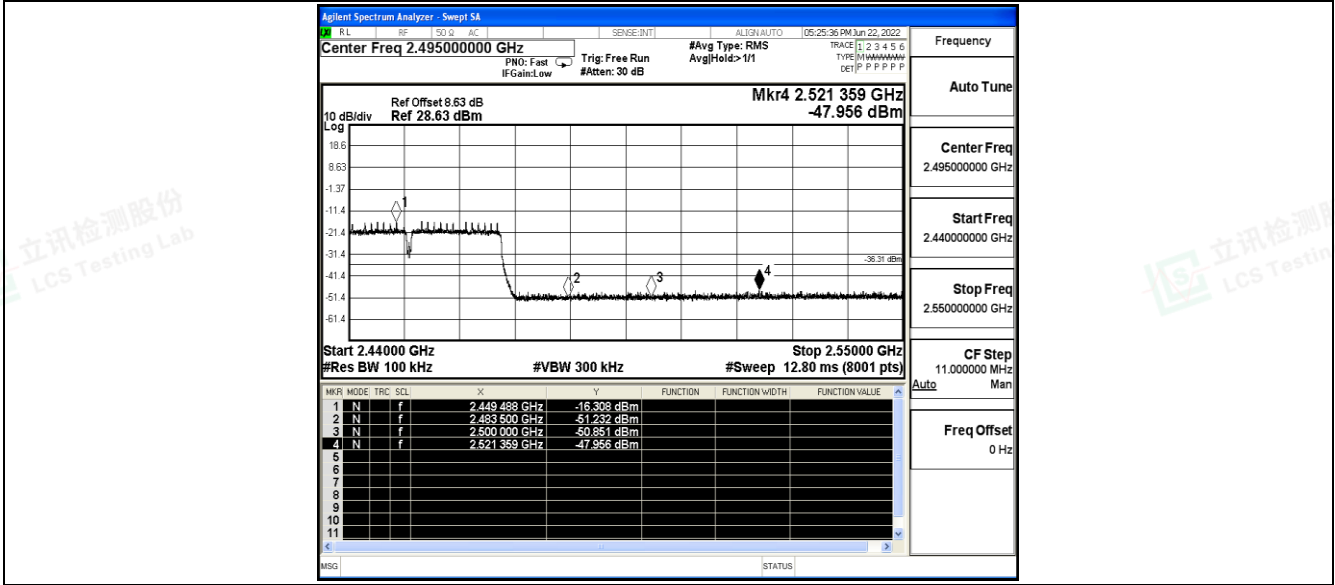


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-60.34	≤-23.1	PASS
			1000~26500	-3.10	-46.02	≤-23.1	PASS
		2437	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-60.41	≤-23.74	PASS
			1000~26500	-3.74	-45.8	≤-23.74	PASS
		2462	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-56.9	≤-16.48	PASS
			1000~26500	3.52	-46.21	≤-16.48	PASS
11G	Ant1	2412	Reference	-11.75	-11.75	---	PASS
			30~1000	-11.75	-59.98	≤-31.75	PASS
			1000~26500	-11.75	-45.81	≤-31.75	PASS
		2437	Reference	-11.67	-11.67	---	PASS
			30~1000	-11.67	-38.78	≤-31.67	PASS
			1000~26500	-11.67	-45.04	≤-31.67	PASS
		2462	Reference	-12.21	-12.21	---	PASS
			30~1000	-12.21	-59.26	≤-32.21	PASS
			1000~26500	-12.21	-45.07	≤-32.21	PASS
11N20SISO	Ant1	2412	Reference	-12.18	-12.18	---	PASS
			30~1000	-12.18	-60.49	≤-32.18	PASS
			1000~26500	-12.18	-45.07	≤-32.18	PASS
		2437	Reference	-11.19	-11.19	---	PASS
			30~1000	-11.19	-60.45	≤-31.19	PASS
			1000~26500	-11.19	-46.36	≤-31.19	PASS
		2462	Reference	-12.70	-12.70	---	PASS
			30~1000	-12.70	-60.48	≤-32.7	PASS
			1000~26500	-12.70	-46.48	≤-32.7	PASS
11N40SISO	Ant1	2422	Reference	-15.53	-15.53	---	PASS
			30~1000	-15.53	-60.02	≤-35.53	PASS
			1000~26500	-15.53	-45.02	≤-35.53	PASS
		2437	Reference	-15.46	-15.46	---	PASS
			30~1000	-15.46	-60.54	≤-35.46	PASS
			1000~26500	-15.46	-45.36	≤-35.46	PASS
		2452	Reference	-16.19	-16.19	---	PASS
			30~1000	-16.19	-60.35	≤-36.19	PASS





			1000~26500	-16.19	-45.34	≤-36.19	PASS
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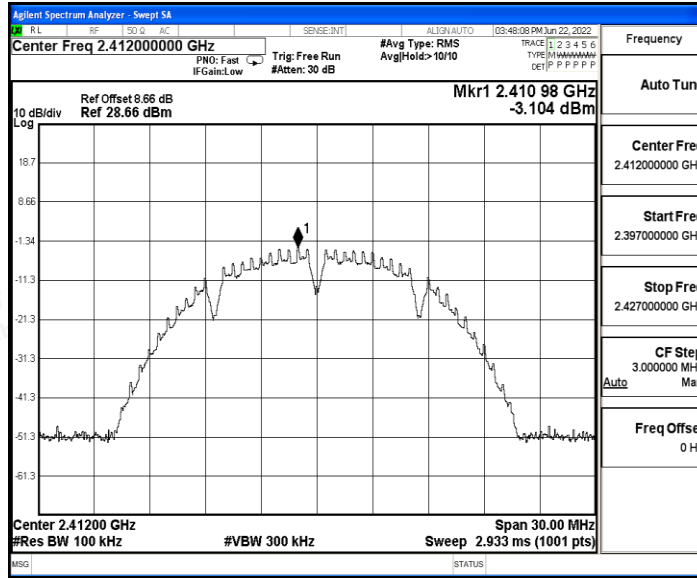


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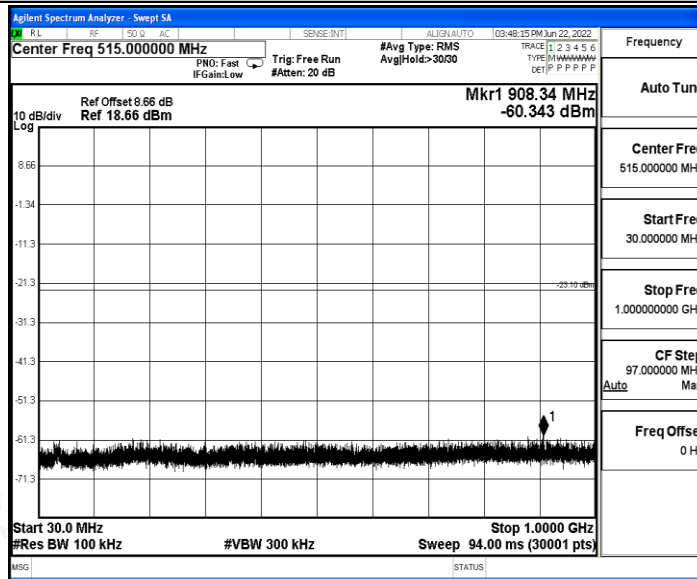


Test Graphs

11B_Ant1_2412_0~Reference

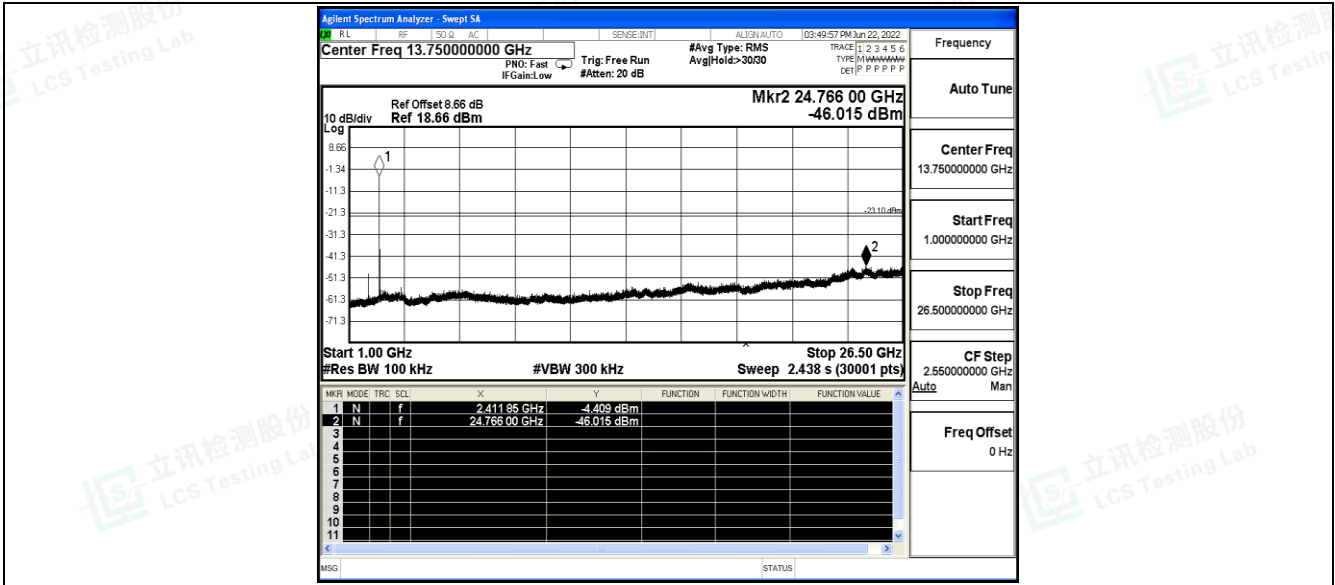


11B_Ant1_2412_30~1000

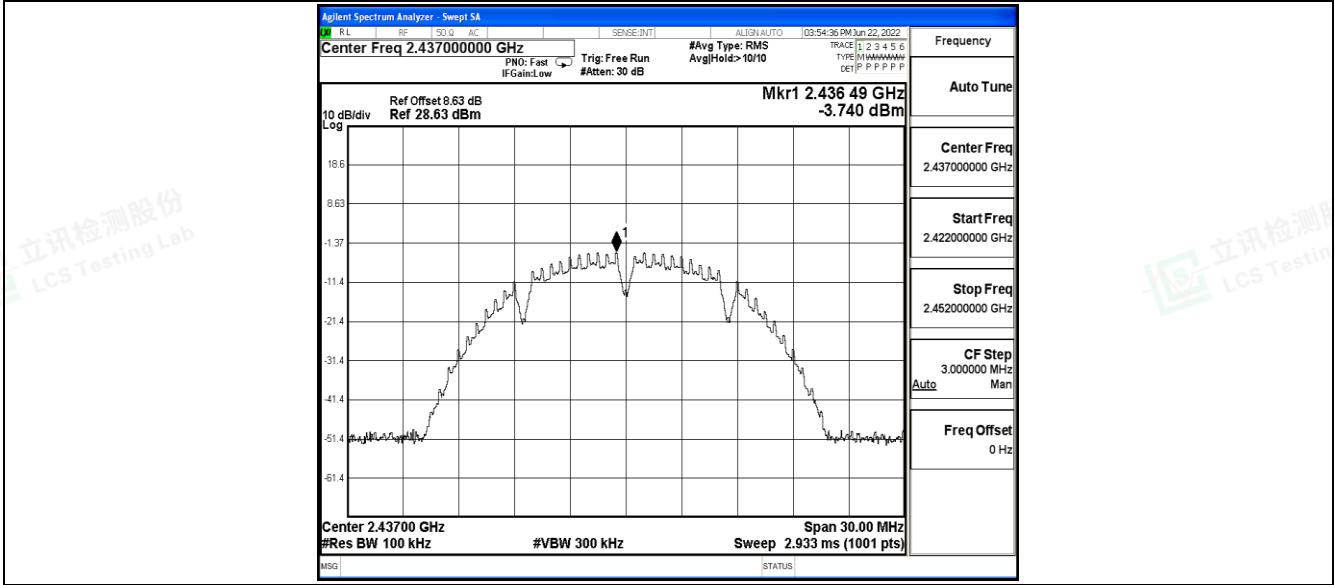


11B_Ant1_2412_1000~26500



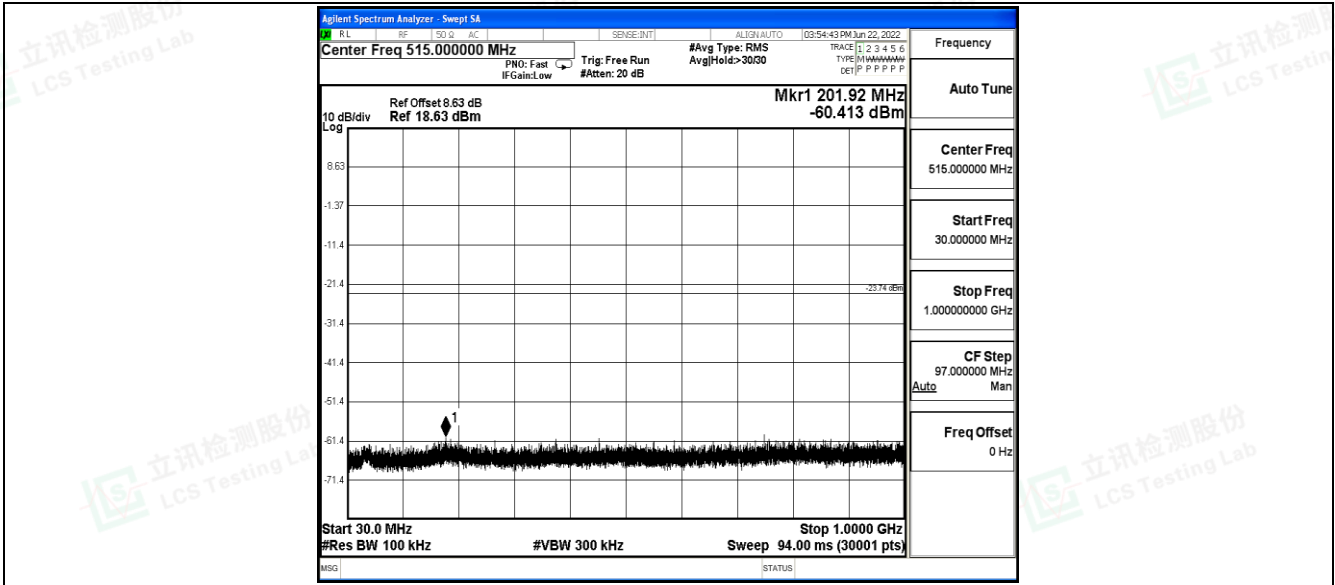


11B_Ant1_2437_0-Reference

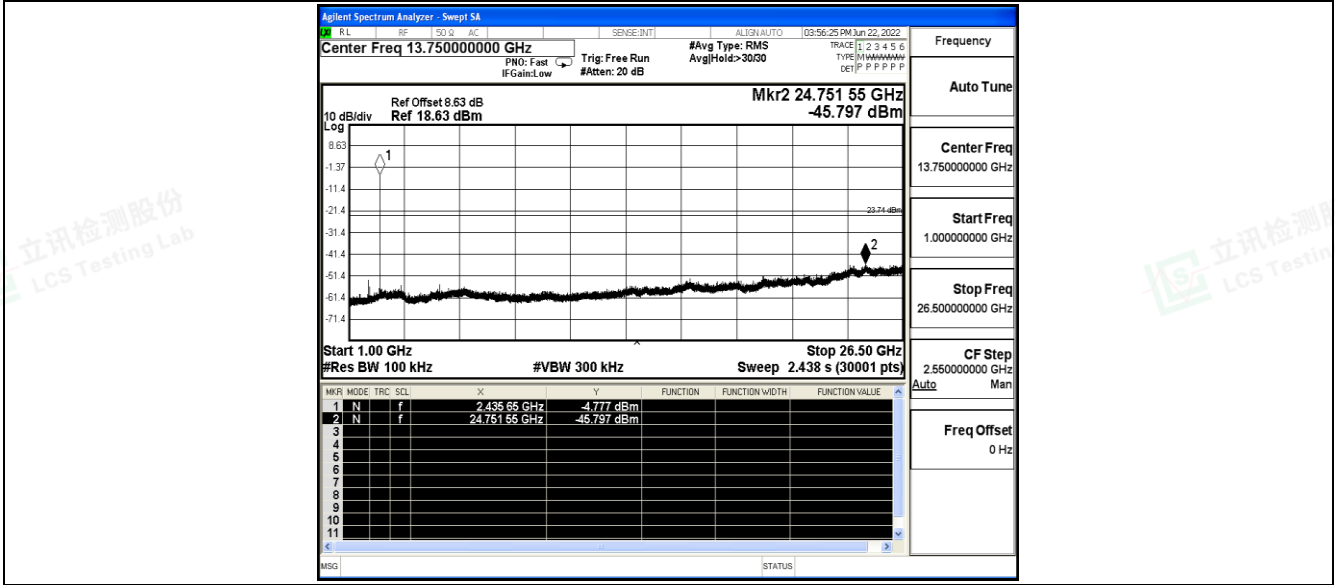


11B_Ant1_2437_30-1000



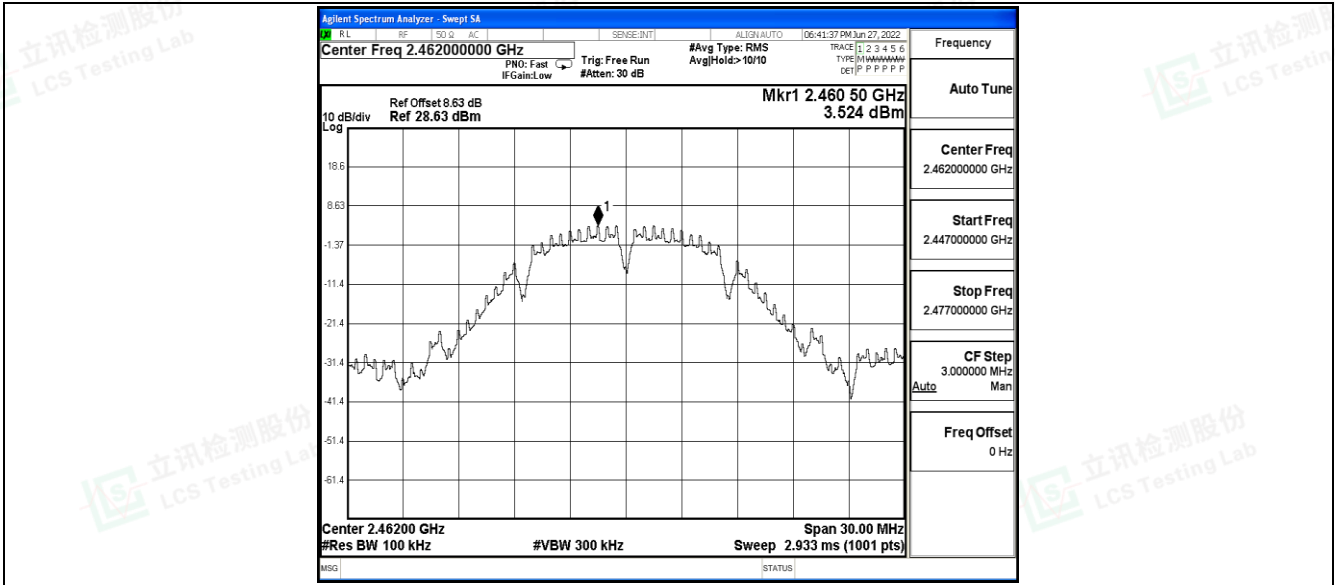


11B_Ant1_2437_1000~26500

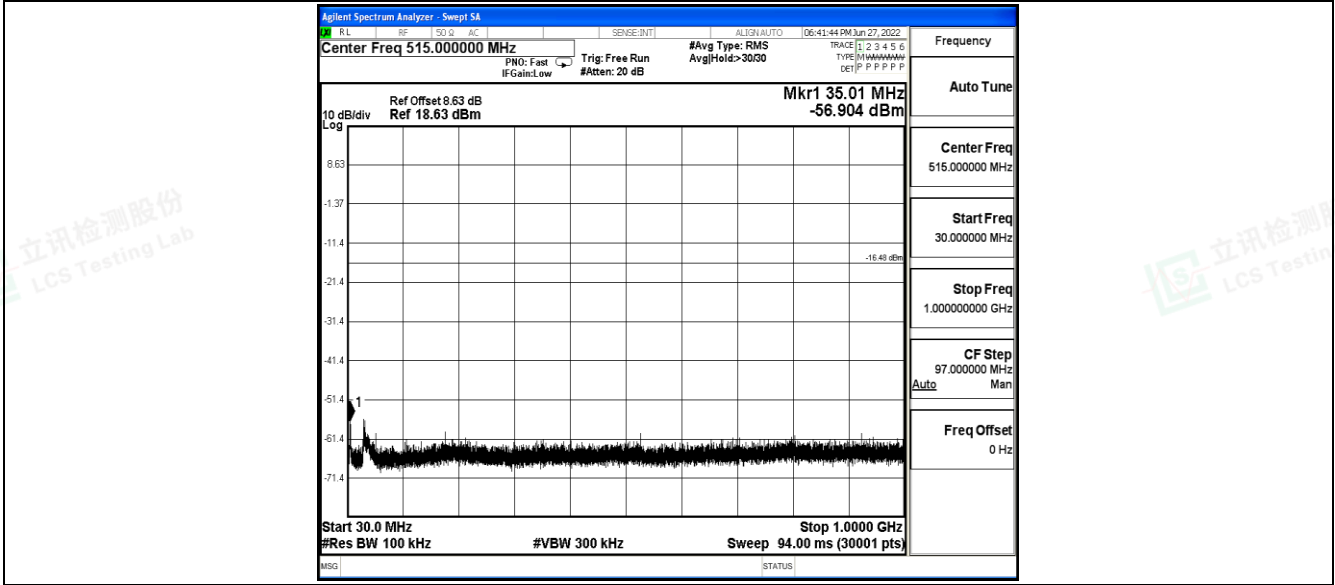


11B_Ant1_2462_0~Reference



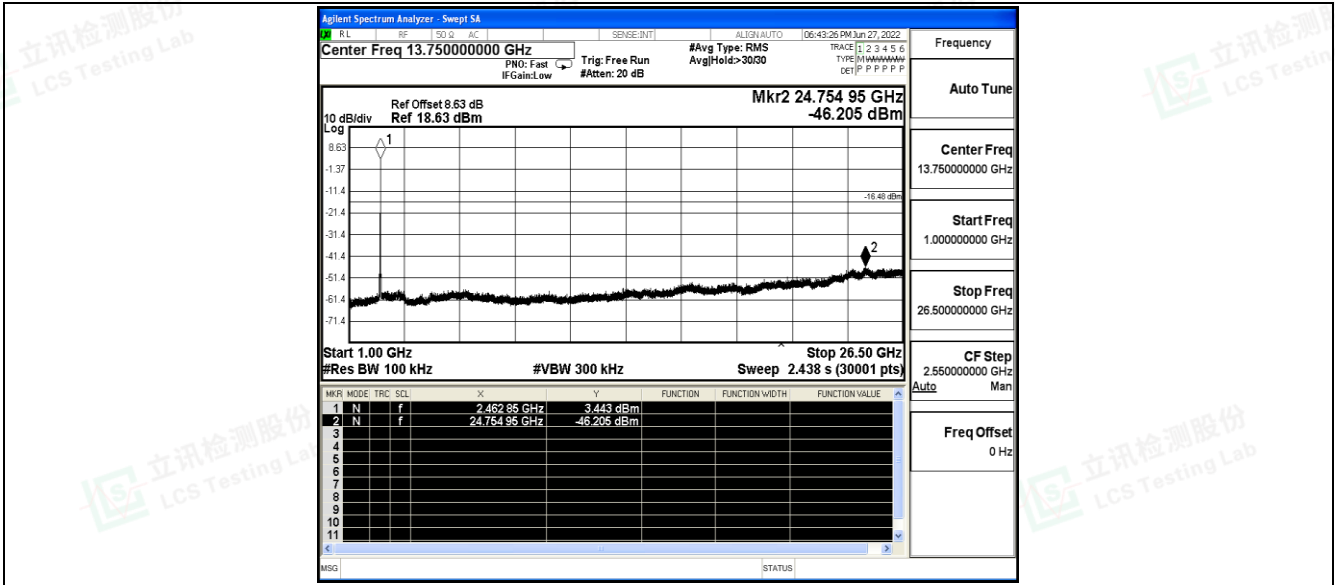


11B_Ant1_2462_30~1000

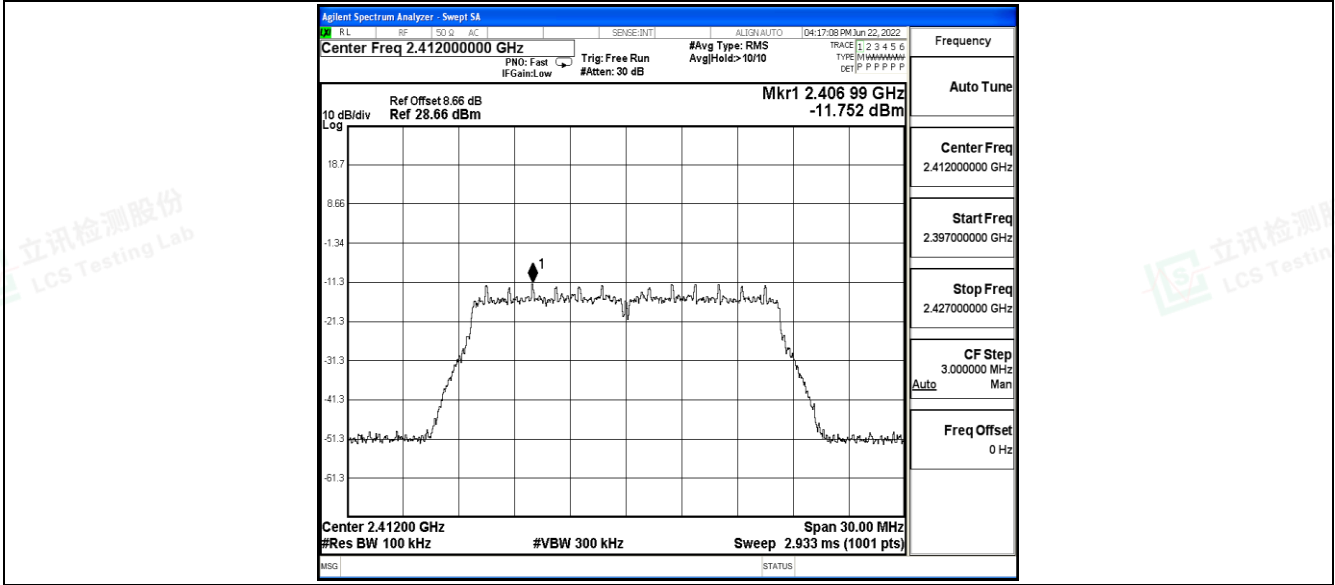


11B_Ant1_2462_1000~26500



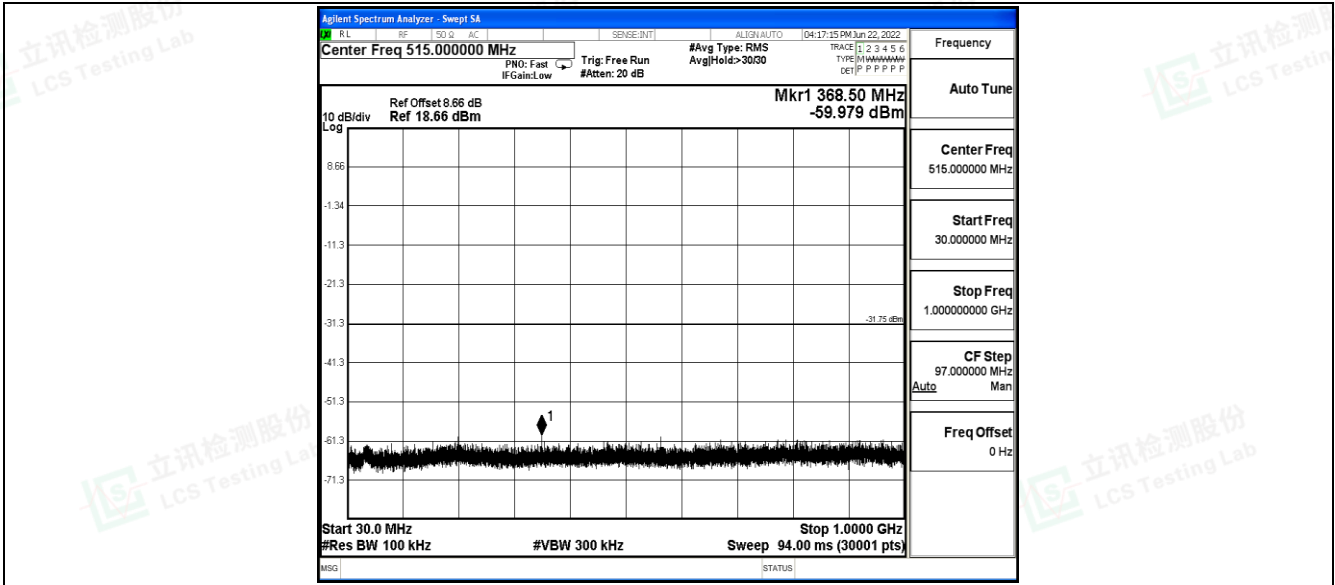


11G_Ant1_2412_0-Reference

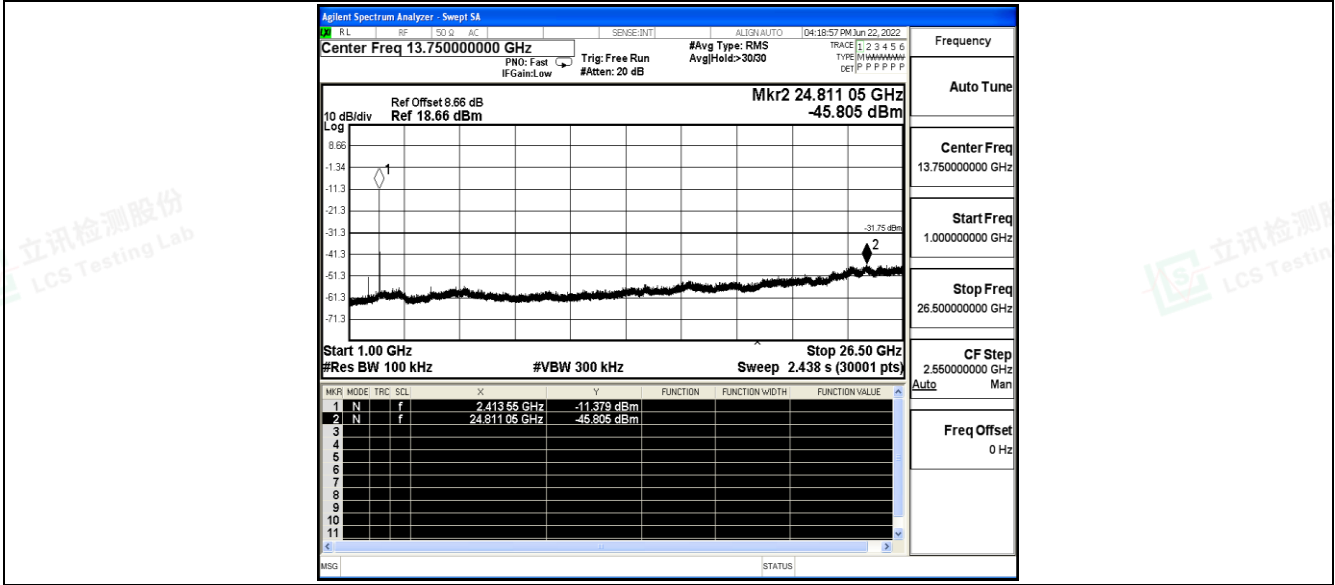


11G_Ant1_2412_30-1000



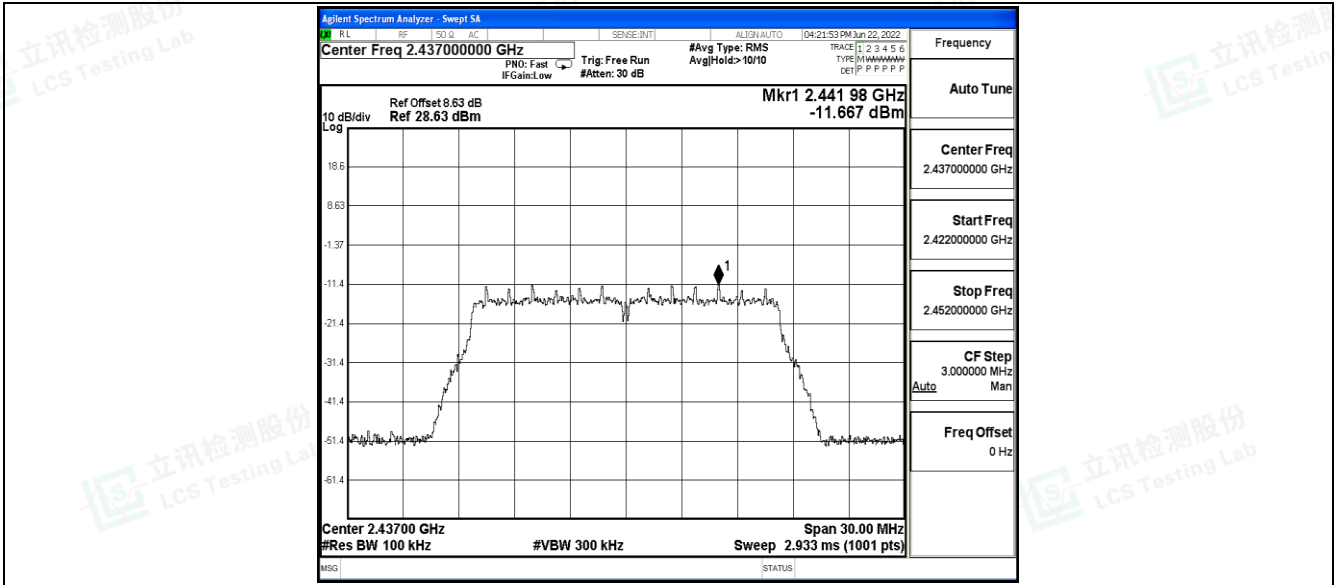


11G_Ant1_2412_1000~26500

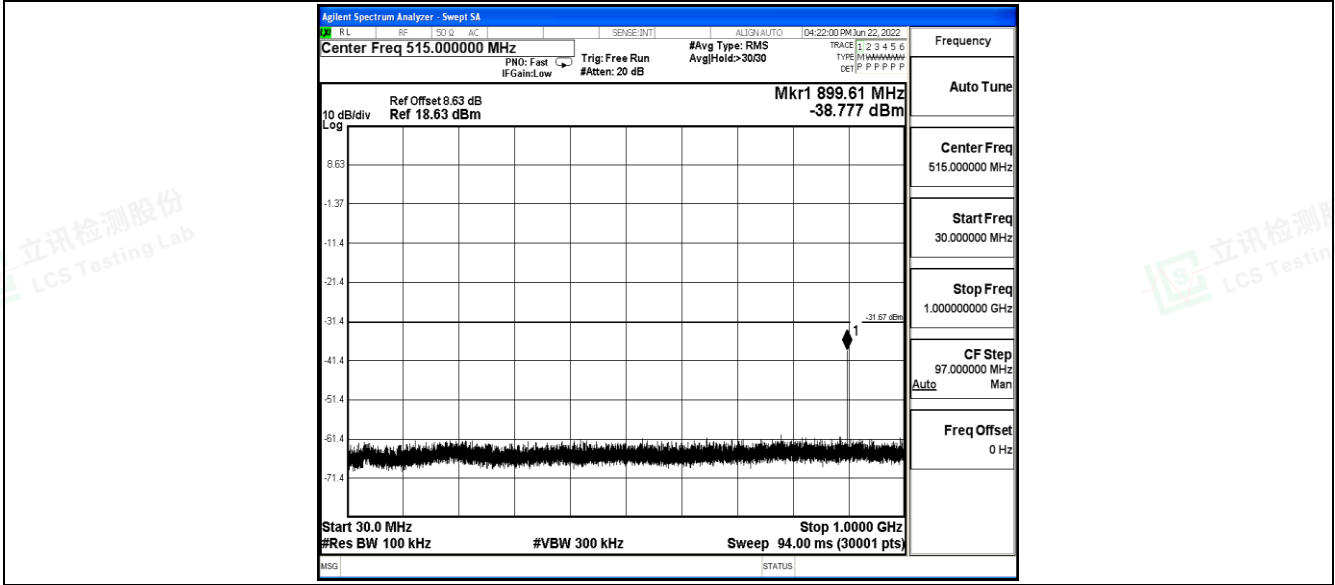


11G_Ant1_2437_0~Reference



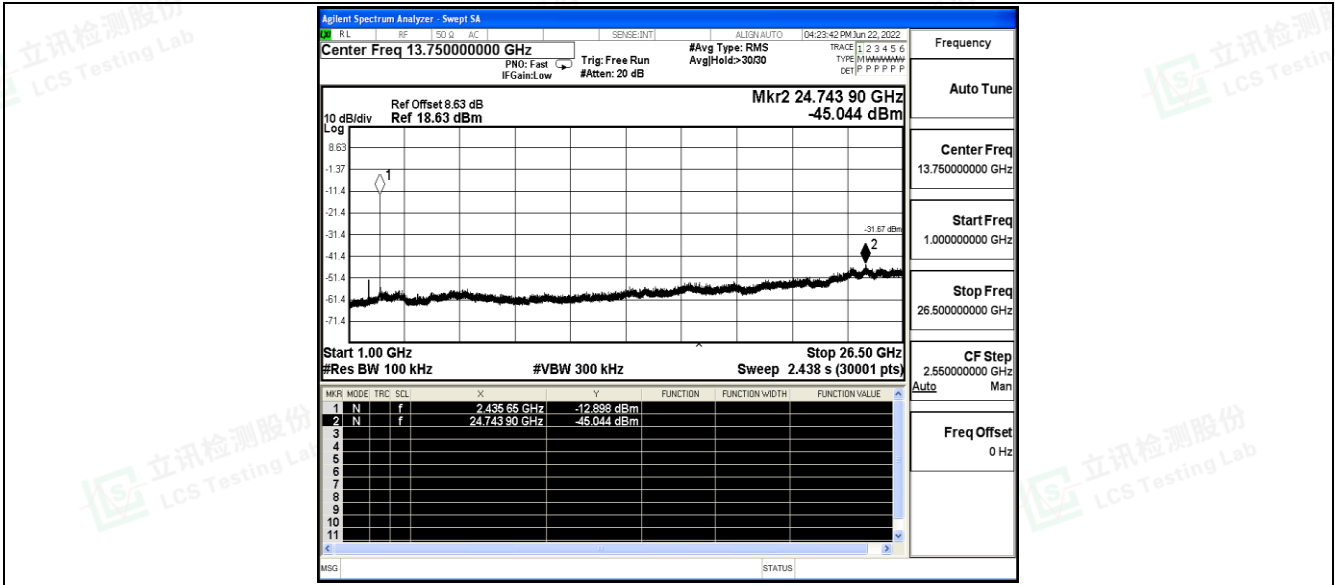


11G_Ant1_2437_30~1000

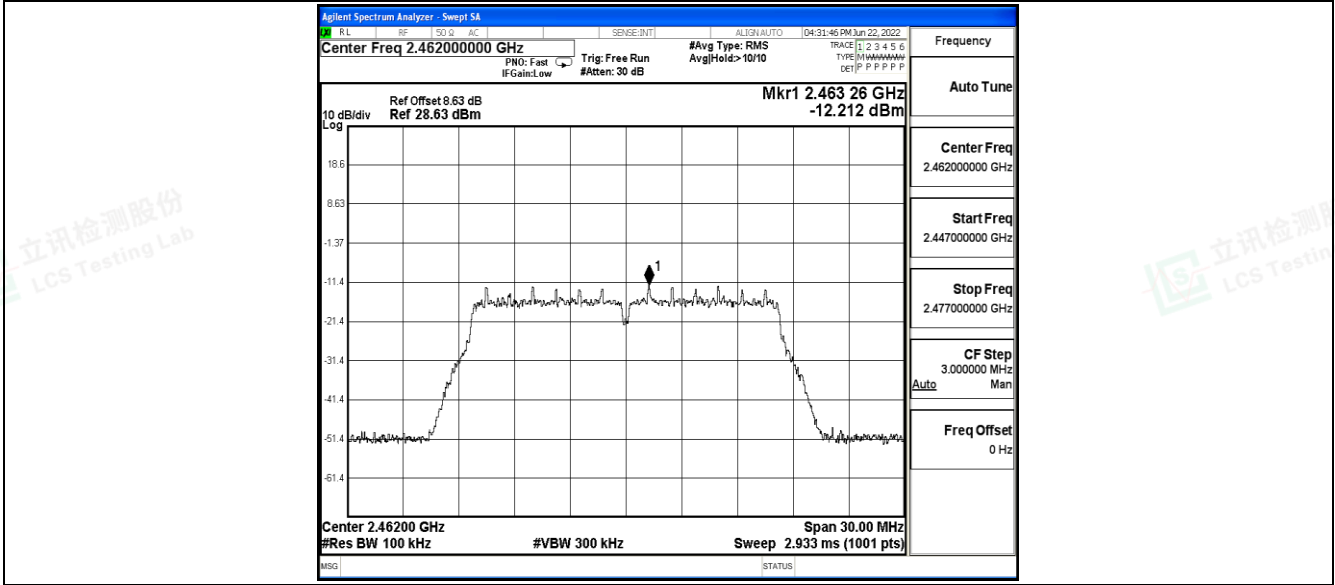


11G_Ant1_2437_1000~26500



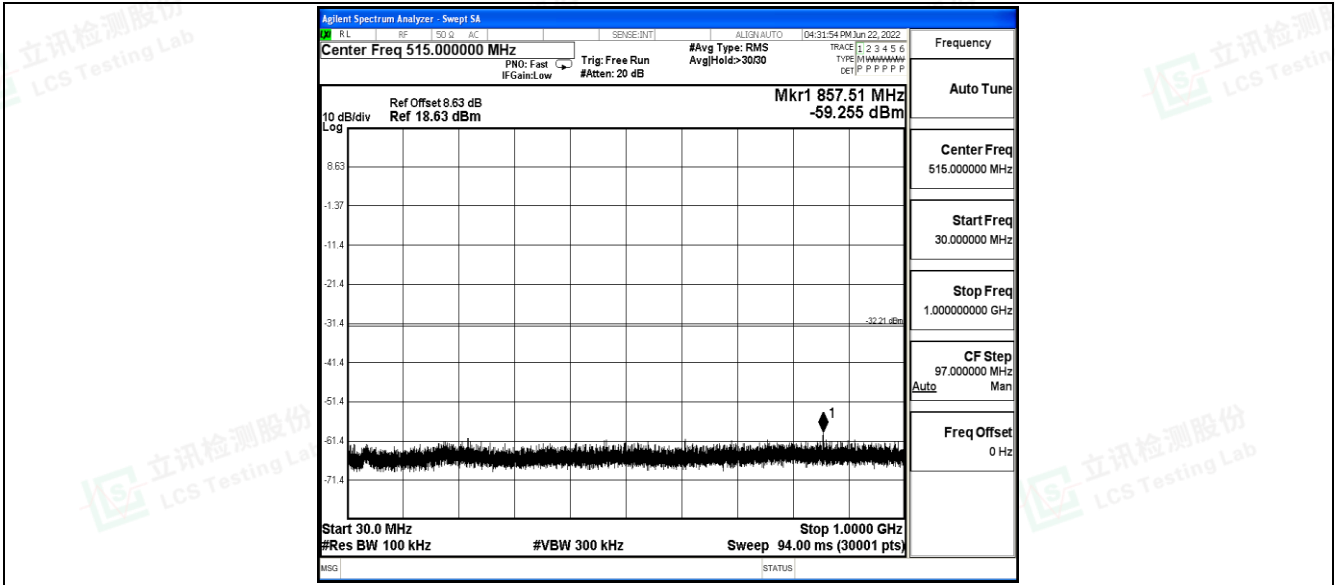


11G_Ant1_2462_0-Reference

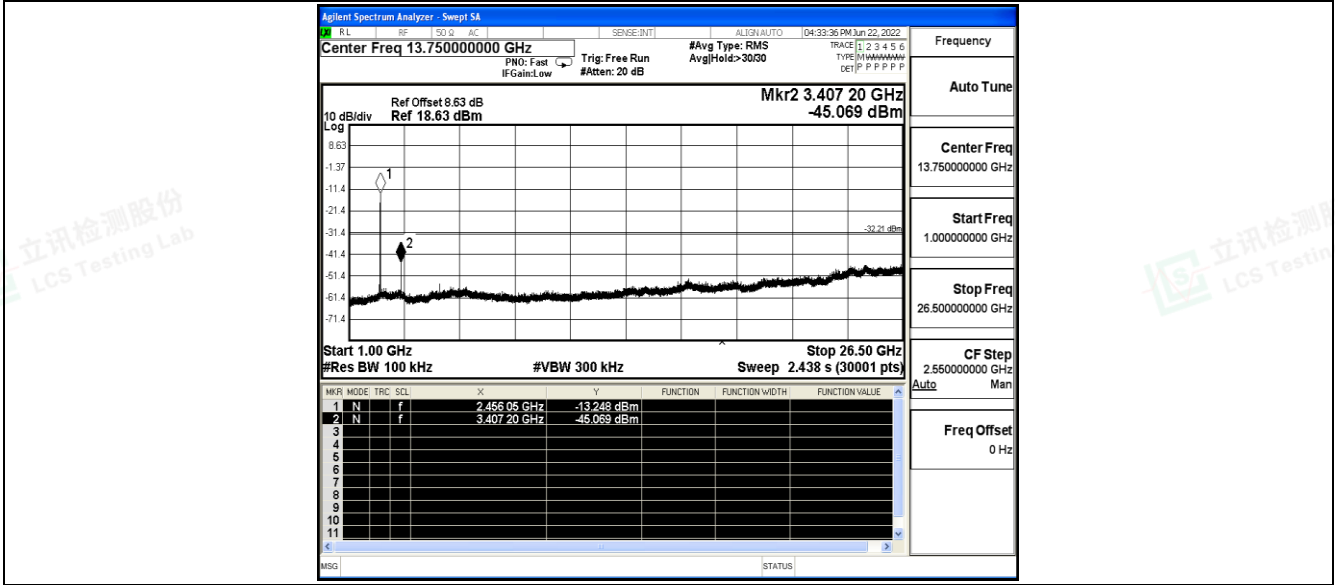


11G_Ant1_2462_30~1000



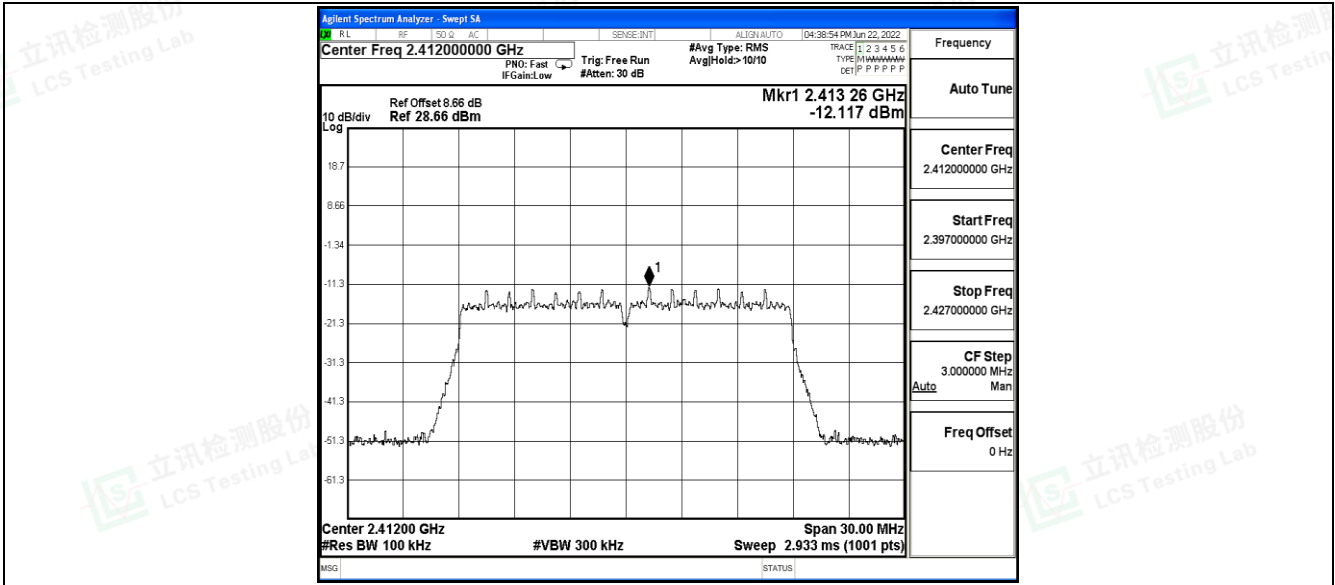


11G_Ant1_2462_1000~26500

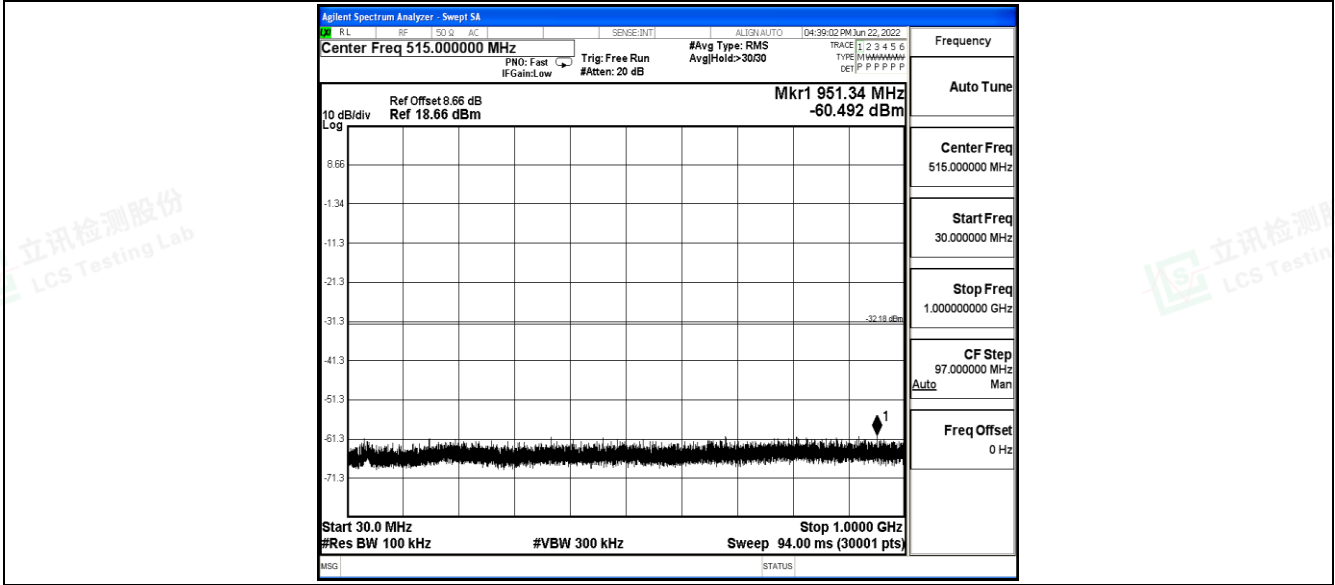


11N20SIS0_Ant1_2412_0~Reference



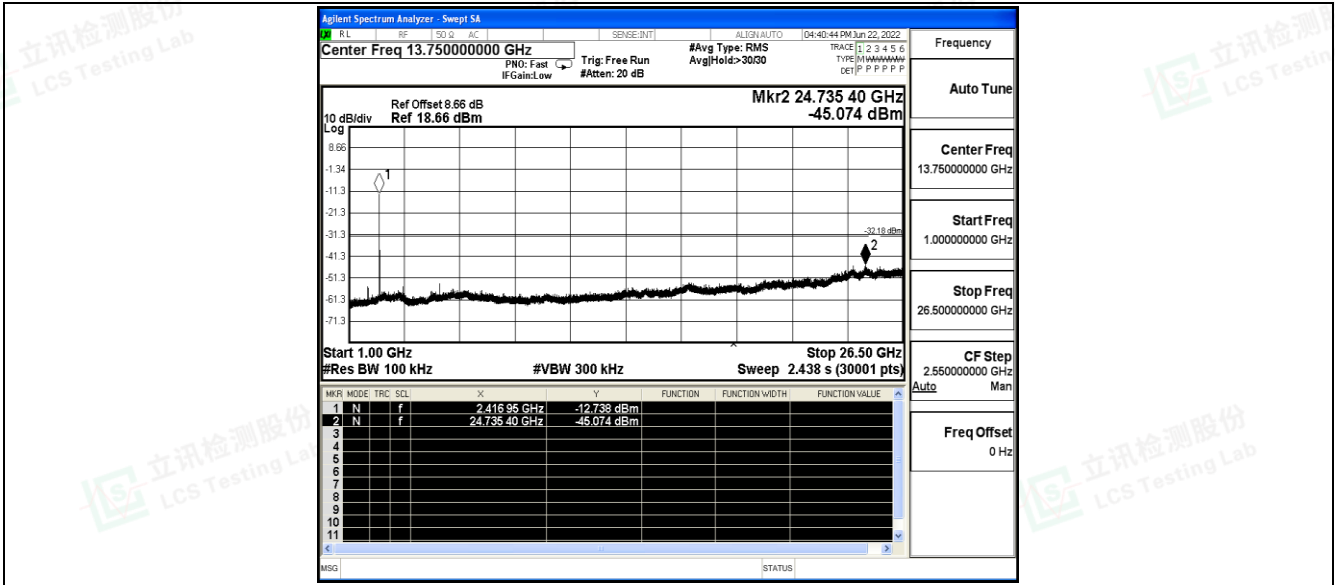


11N20SISO_Ant1_2412_30~1000

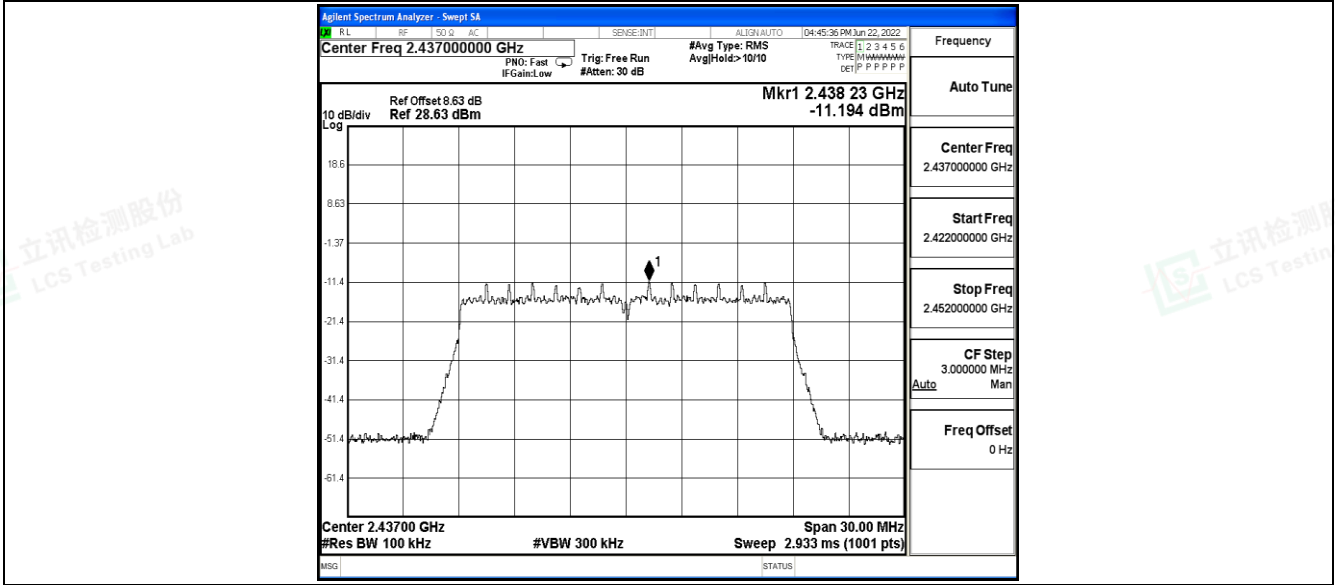


11N20SISO_Ant1_2412_1000~26500



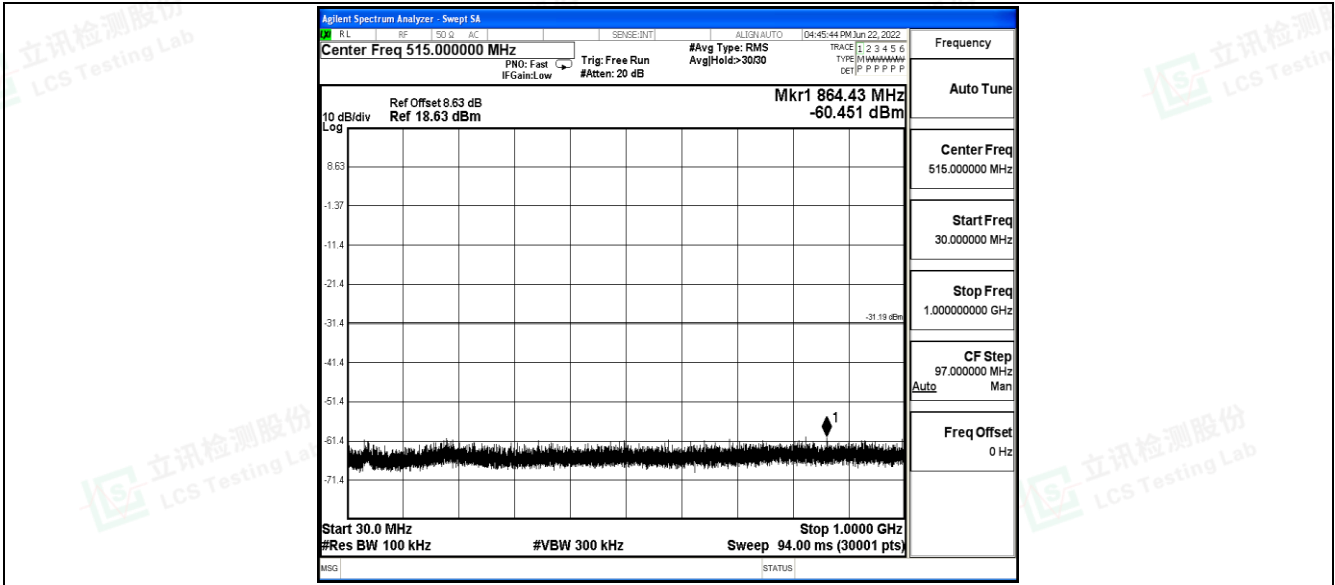


11N20SISO_Ant1_2437_0~Reference

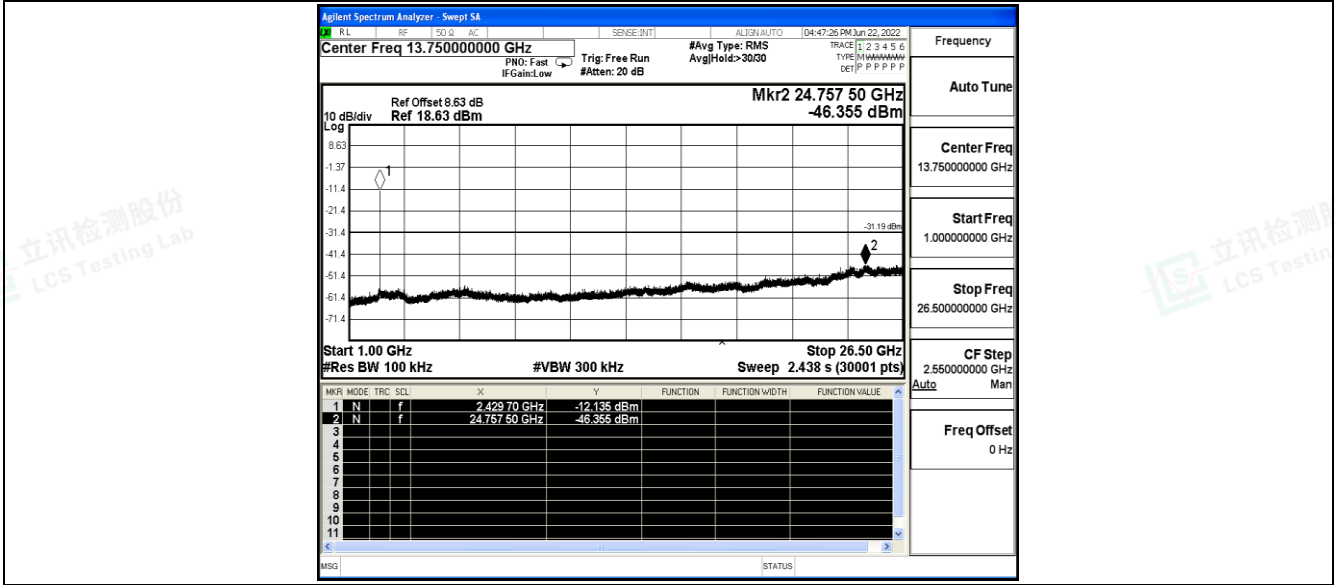


11N20SISO_Ant1_2437_30~1000





11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

