



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: AI Dash Cam

Test Model: KY-6120

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.000	2417.000	0.5	PASS
		2437	9.600	2432.000	2441.600	0.5	PASS
		2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.880	2403.480	2420.360	0.5	PASS
		2437	17.320	2428.240	2445.560	0.5	PASS
		2462	17.040	2453.480	2470.520	0.5	PASS
11N40SISO	Ant1	2422	35.200	2404.400	2439.600	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.280	2434.240	2469.520	0.5	PASS



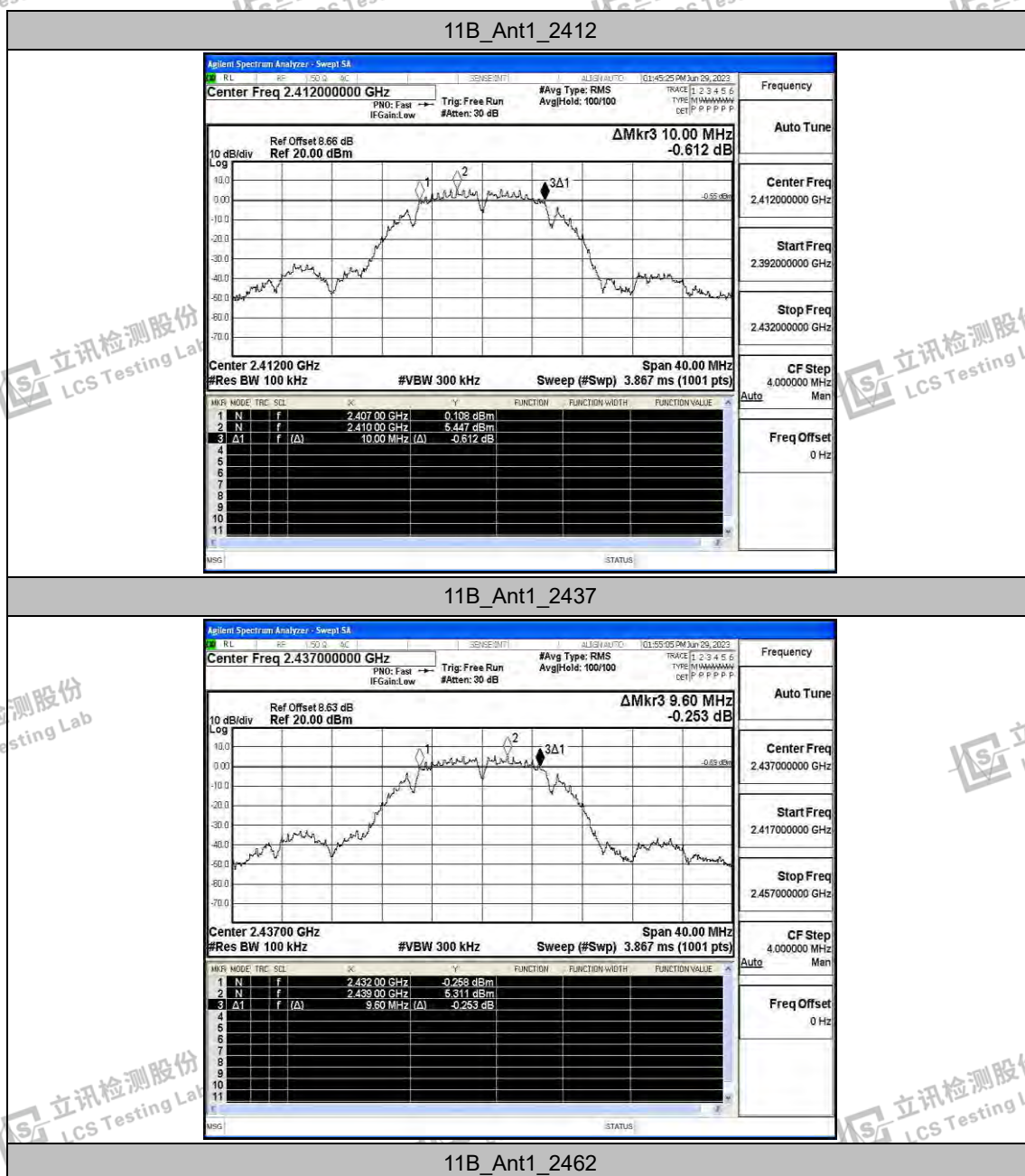
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Test Graphs

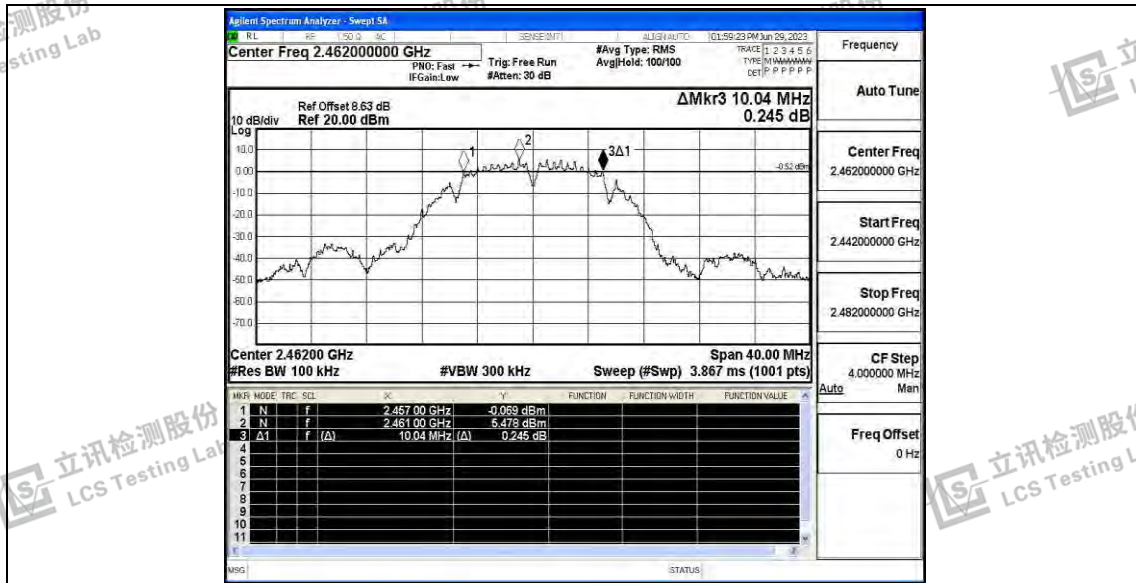


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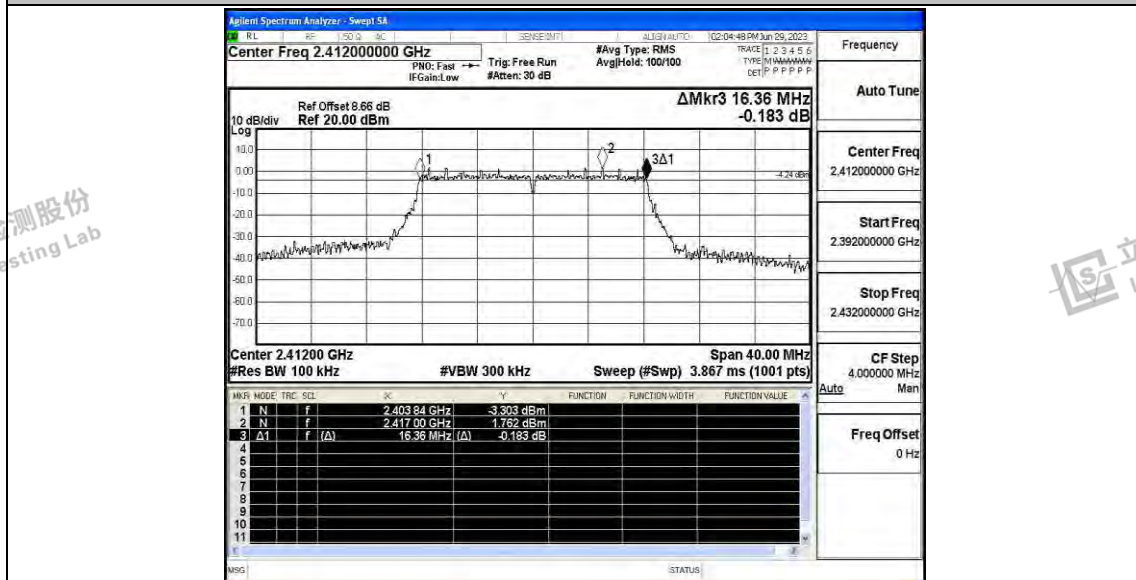
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11G_Ant1_2412



11G_Ant1_2437

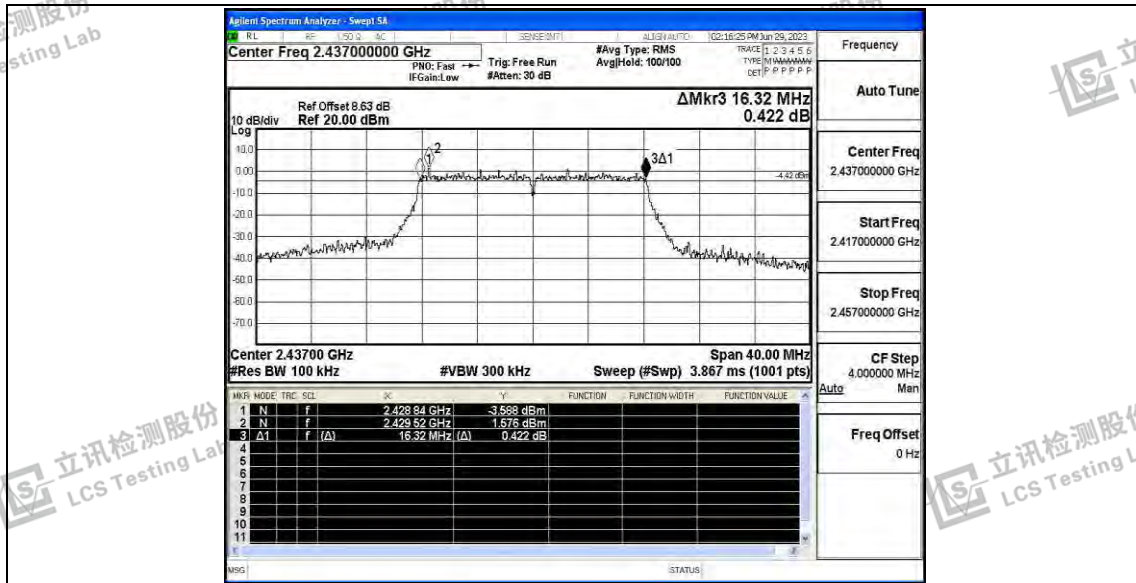


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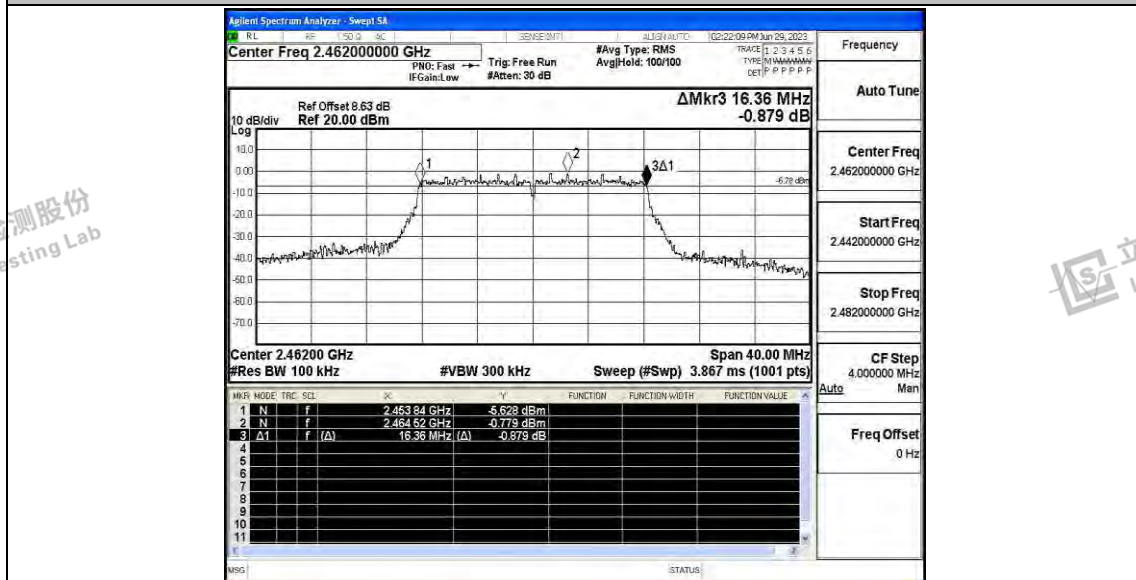
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11G_Ant1_2462



11N20SISO_Ant1_2412

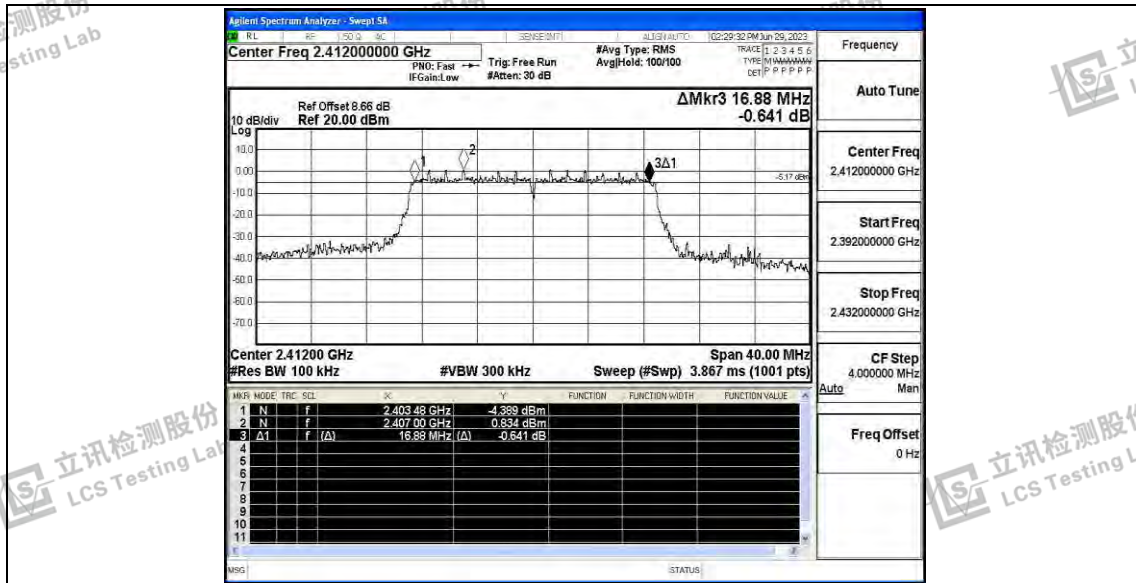


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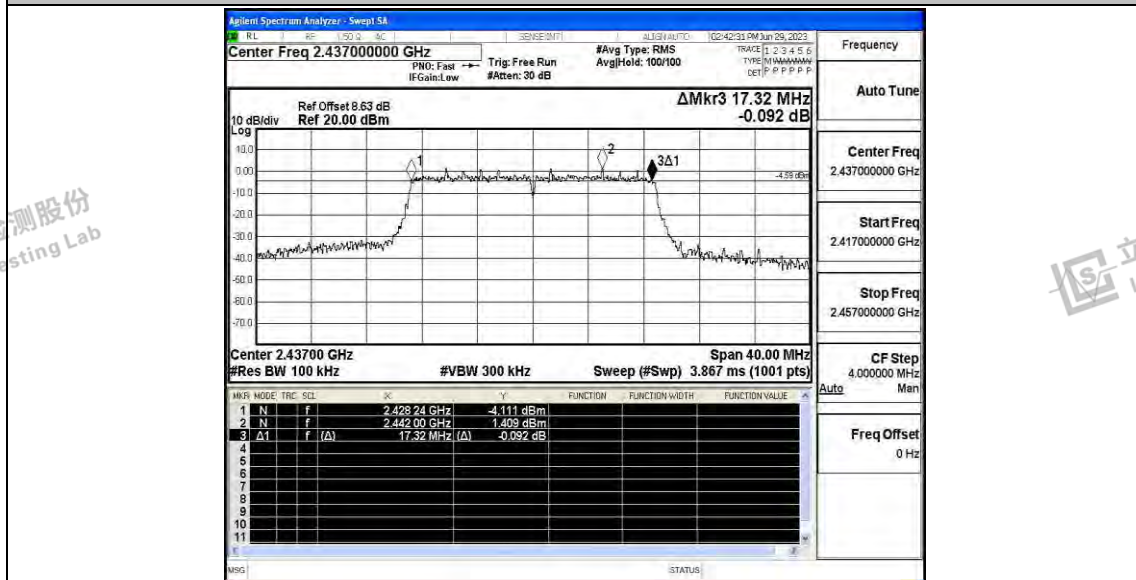
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

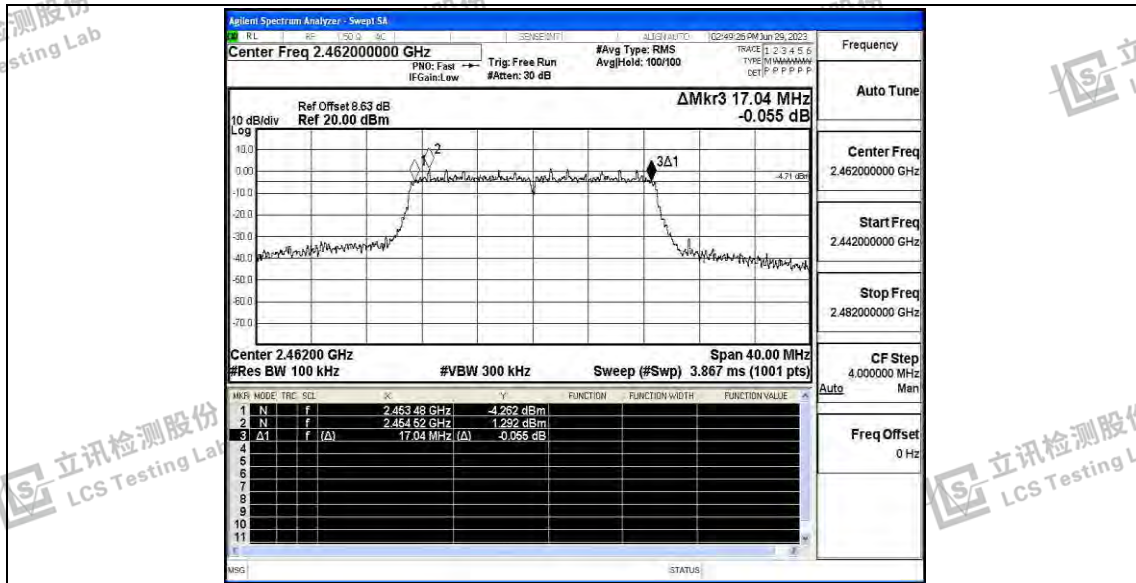


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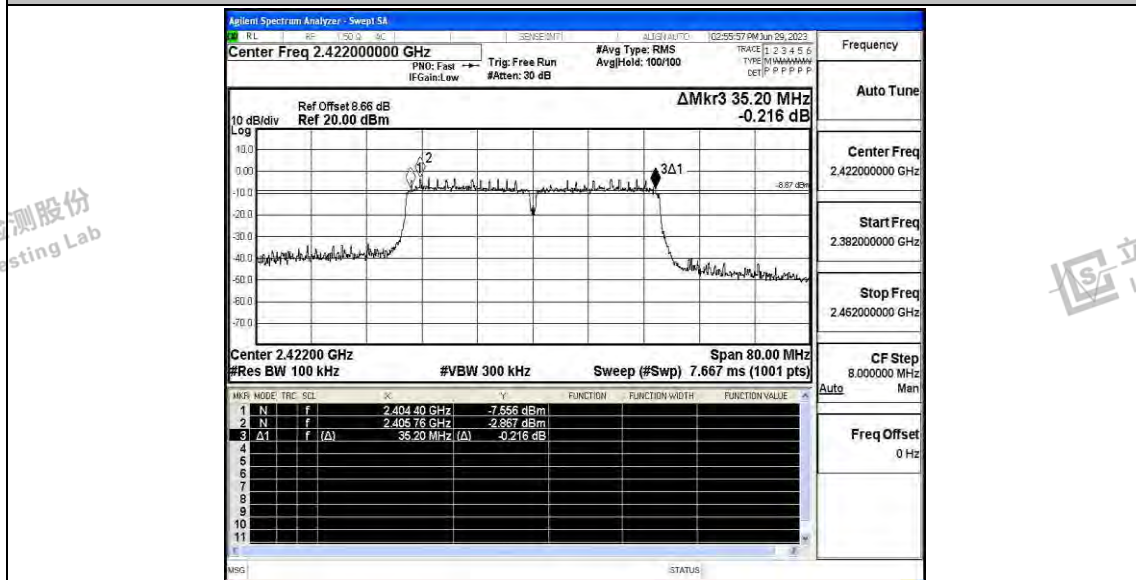
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

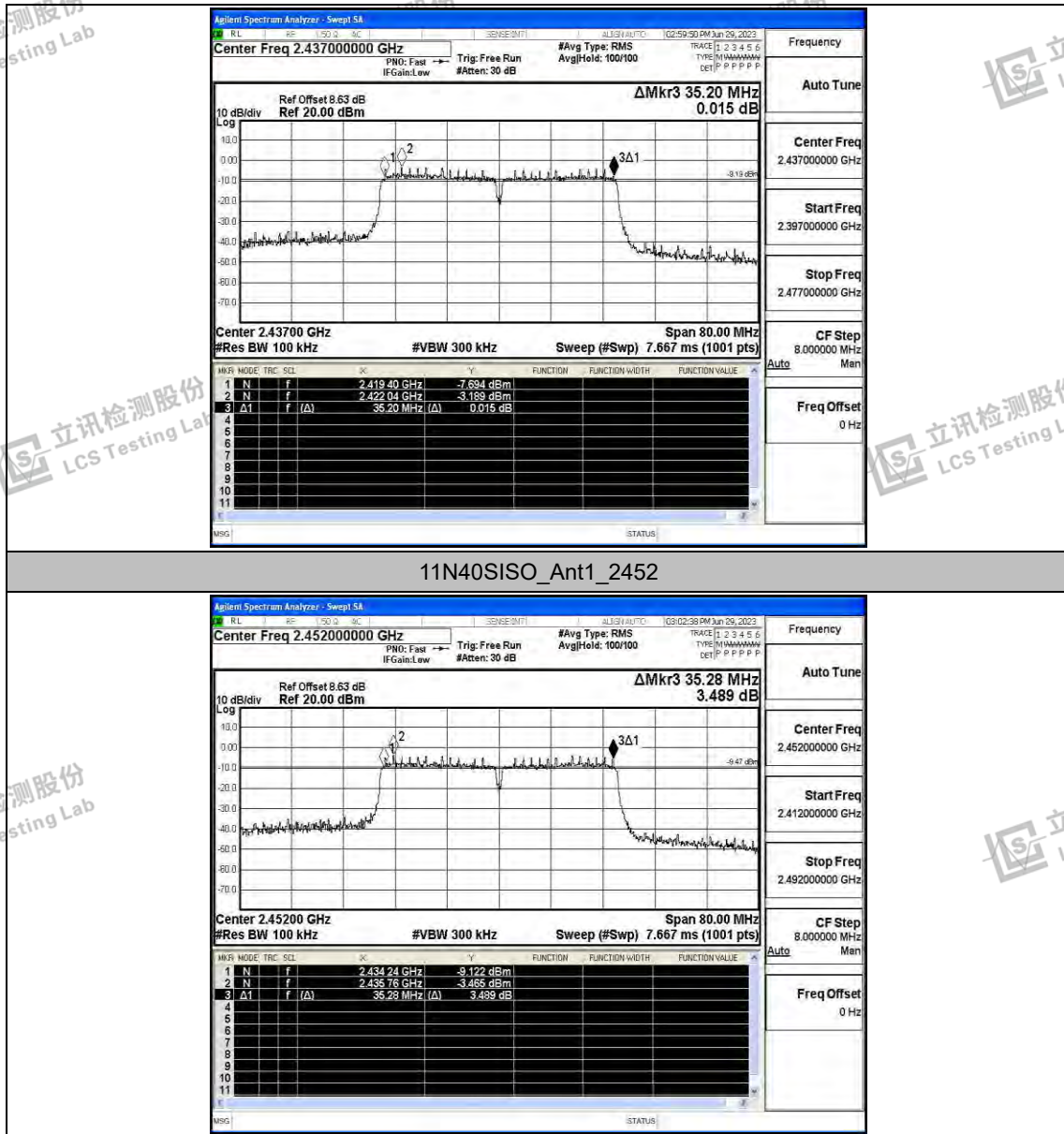


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A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.998	2405.5026	2418.5006	---	PASS
		2437	13.005	2430.4855	2443.4905	---	PASS
		2462	12.996	2455.4981	2468.4941	---	PASS
11G	Ant1	2412	16.760	2403.6024	2420.3624	---	PASS
		2437	16.830	2428.5724	2445.4024	---	PASS
		2462	16.740	2453.6167	2470.3567	---	PASS
11N20SISO	Ant1	2412	17.700	2403.1559	2420.8559	---	PASS
		2437	17.673	2428.1748	2445.8478	---	PASS
		2462	17.655	2453.1782	2470.8332	---	PASS
11N40SISO	Ant1	2422	36.065	2403.9511	2440.0161	---	PASS
		2437	36.107	2418.9215	2455.0285	---	PASS
		2452	36.147	2433.9252	2470.0722	---	PASS



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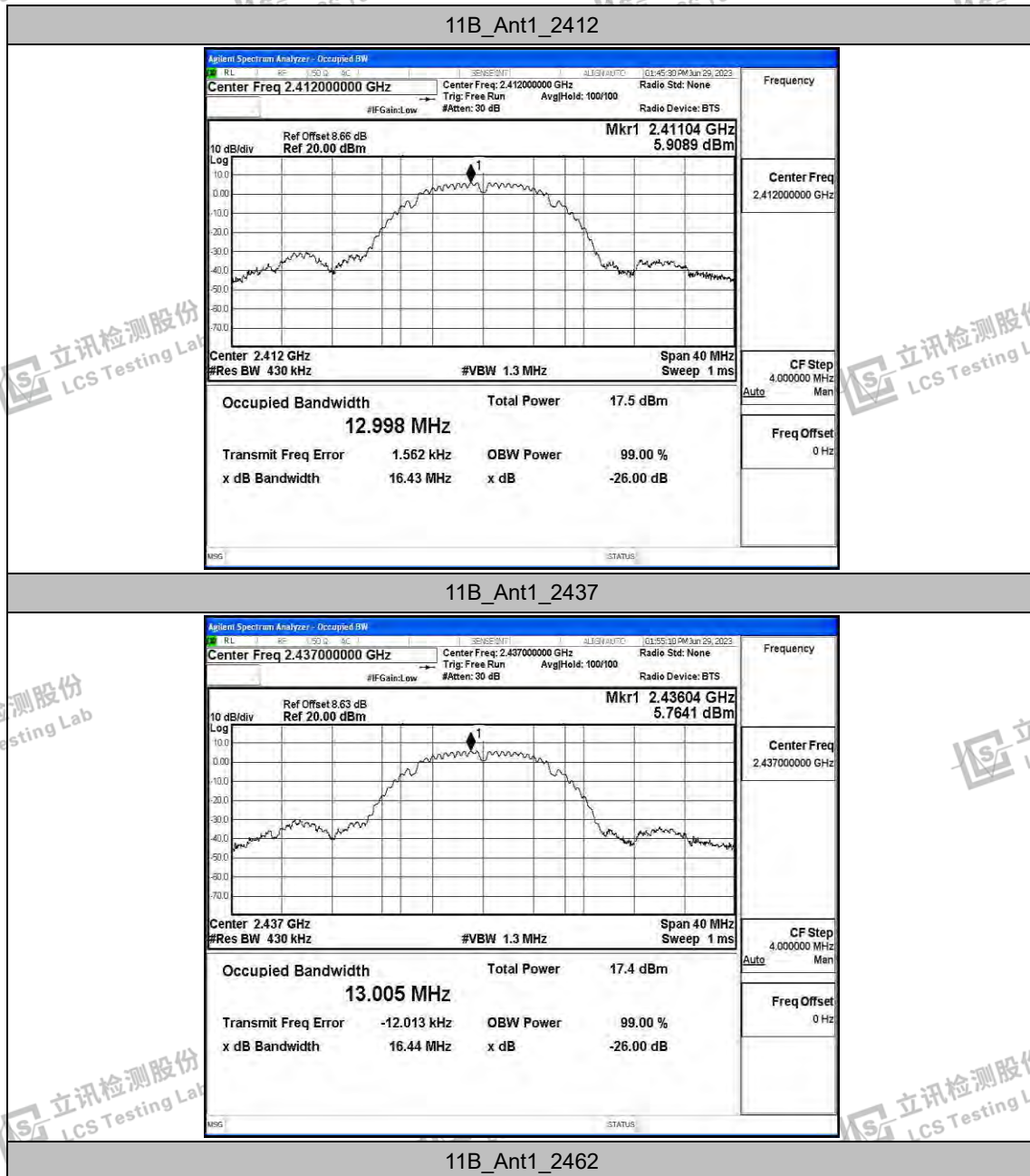
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Test Graphs

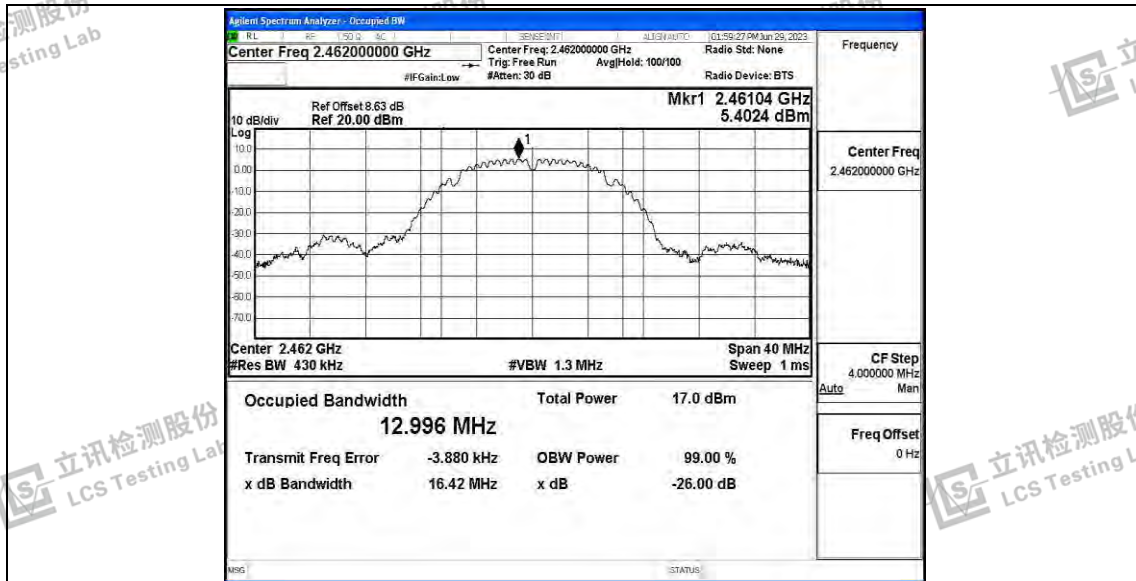


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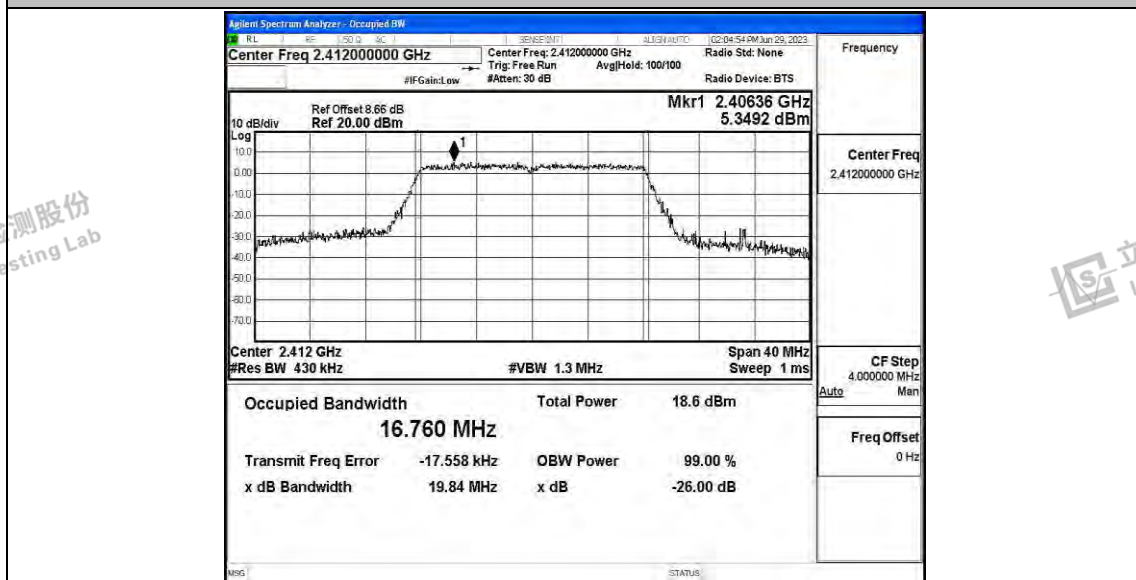
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11G_Ant1_2412



11G_Ant1_2437

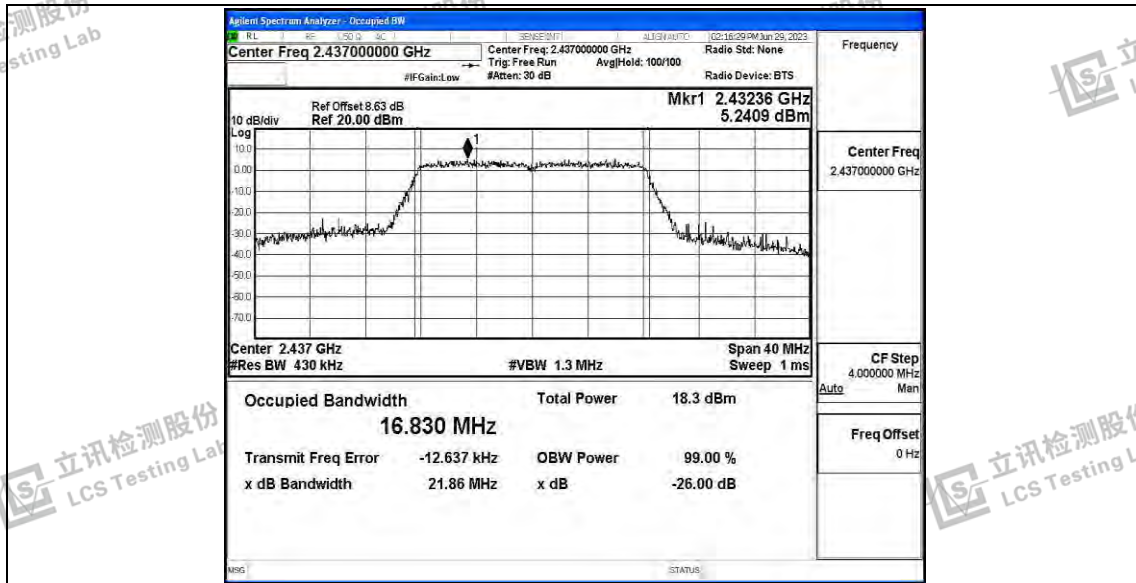


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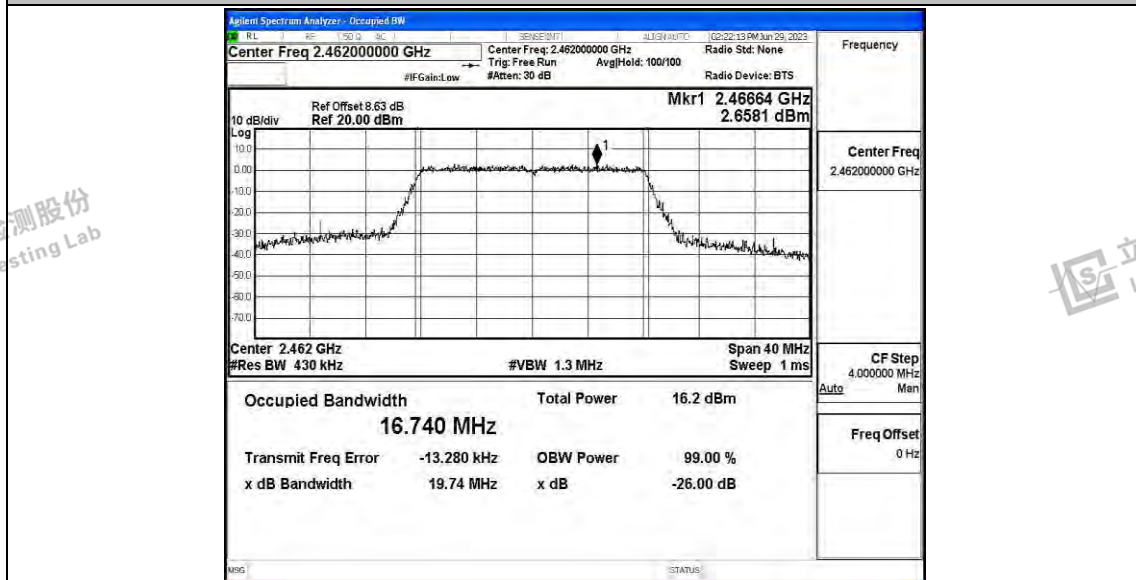
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11G_Ant1_2462



11N20SISO_Ant1_2412

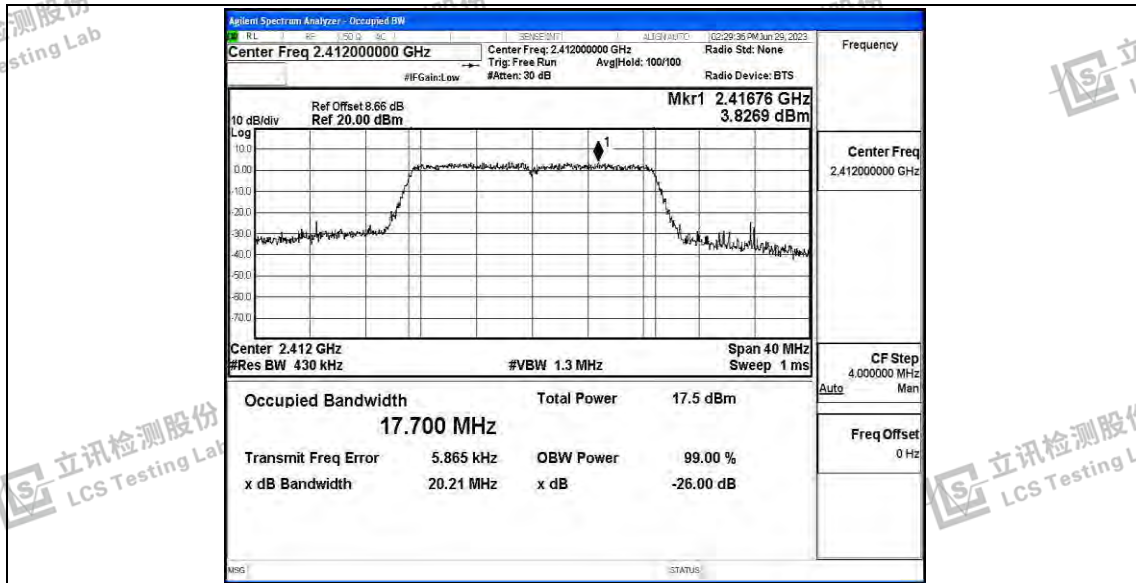


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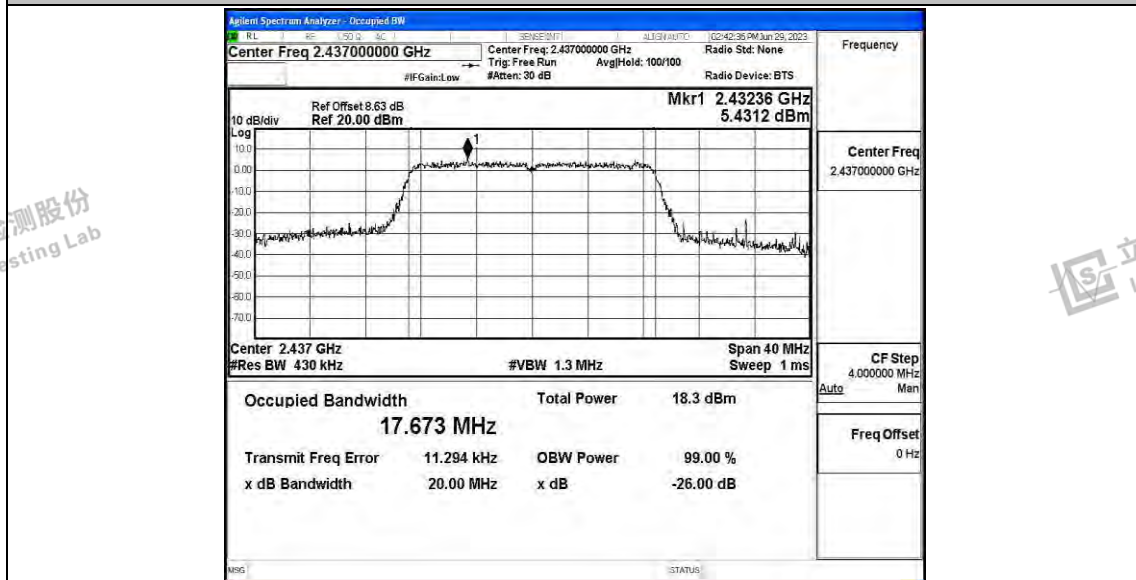
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

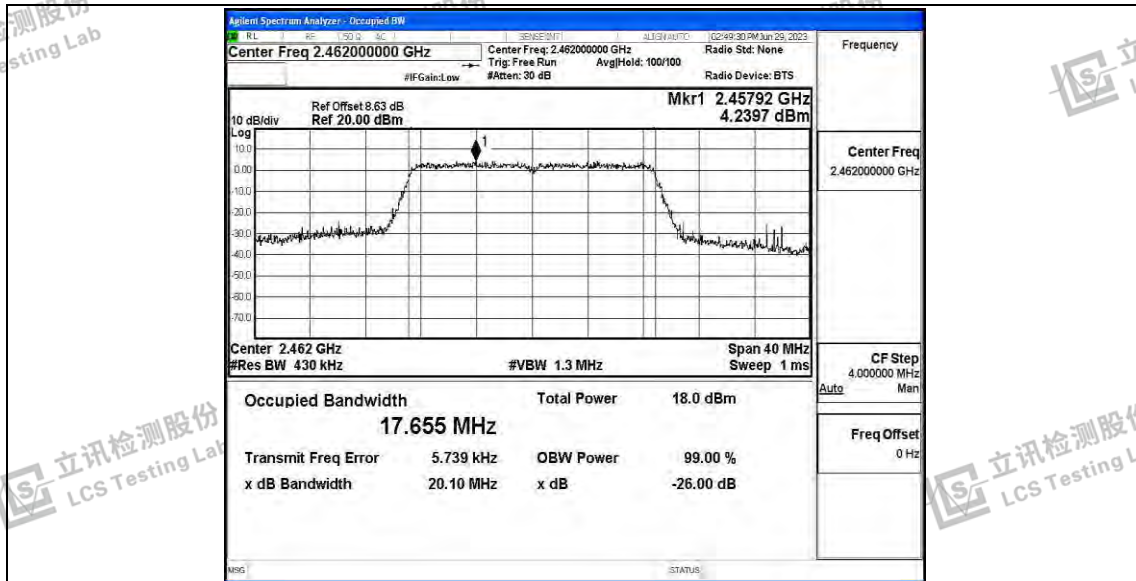


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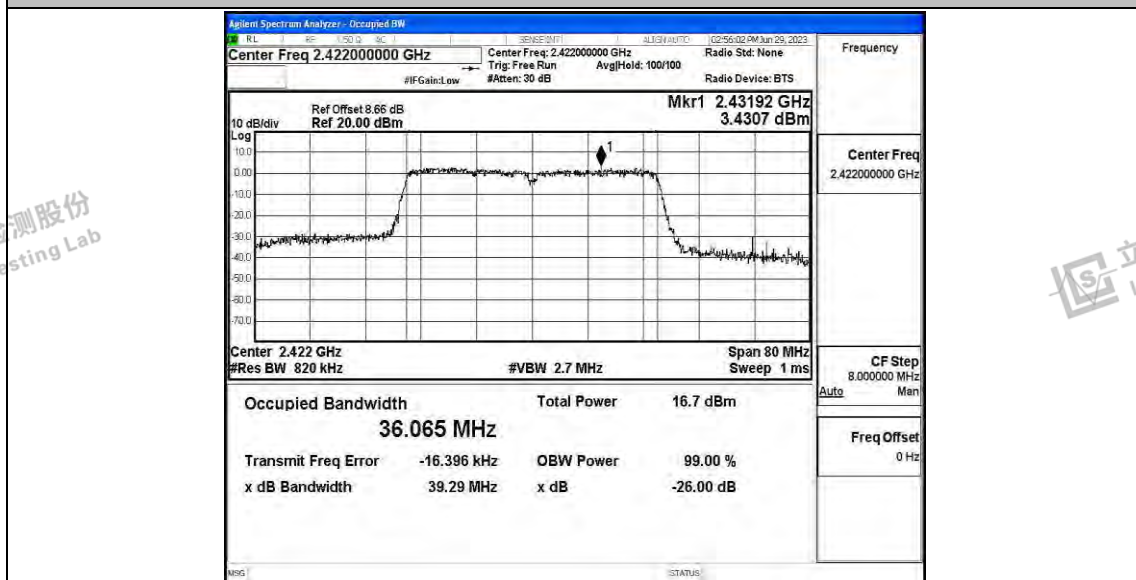
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

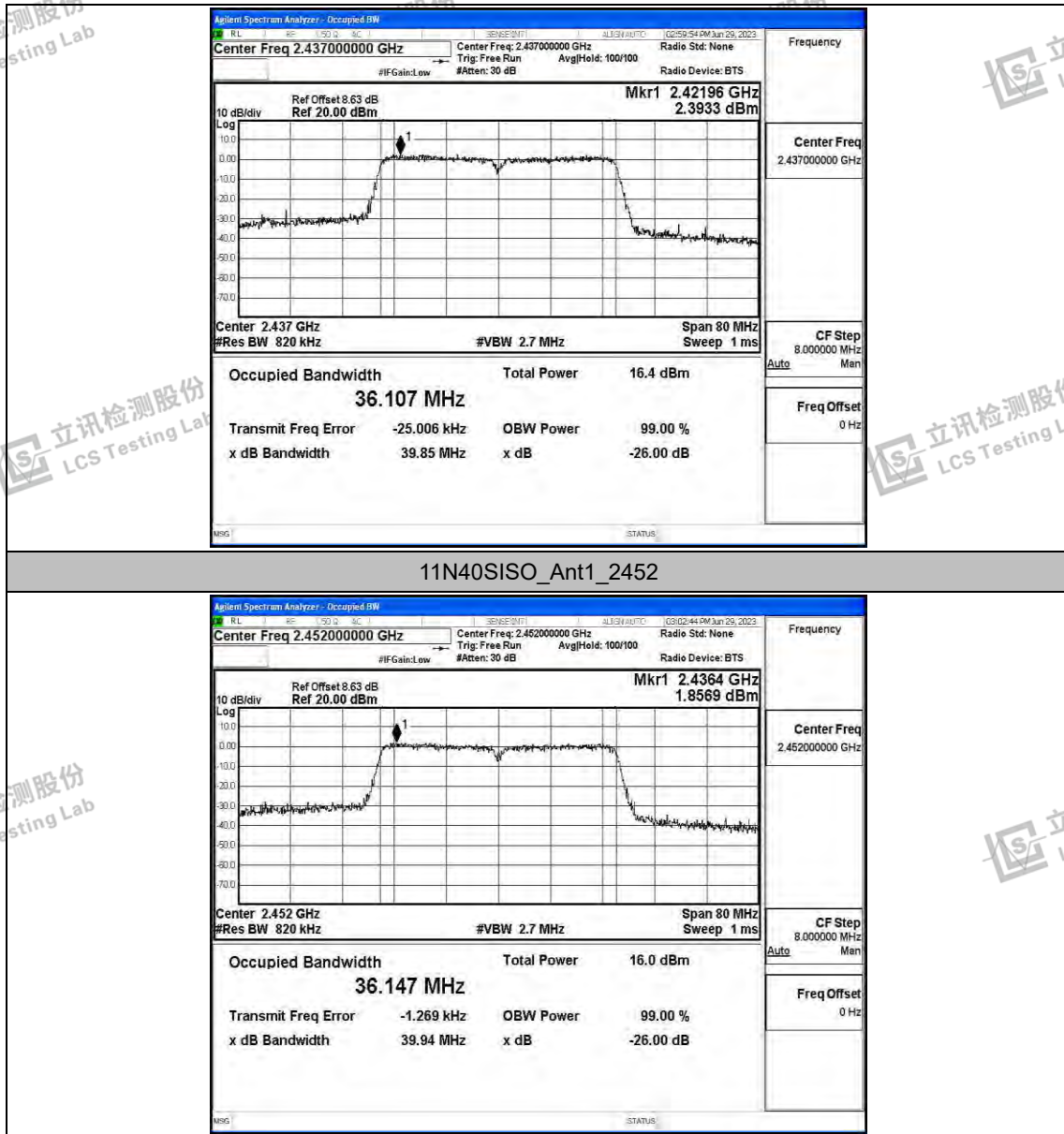


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A.3 Maximum conducted output power

Test Result

TestMode	Antenna	Frequency [MHz]	Power [dBm]	Conducted Limit [dBm]	Antenna Gain	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	17.69	≤30.00	2.4	20.09	≤36.00	PASS
		2437	17.55	≤30.00	2.4	19.95	≤36.00	PASS
		2462	17.15	≤30.00	2.4	19.55	≤36.00	PASS
11G	Ant1	2412	19.54	≤30.00	2.4	21.94	≤36.00	PASS
		2437	19.30	≤30.00	2.4	21.70	≤36.00	PASS
		2462	17.24	≤30.00	2.4	19.64	≤36.00	PASS
11N20SISO	Ant1	2412	18.41	≤30.00	2.4	20.81	≤36.00	PASS
		2437	19.26	≤30.00	2.4	21.66	≤36.00	PASS
		2462	18.91	≤30.00	2.4	21.31	≤36.00	PASS
11N40SISO	Ant1	2422	17.09	≤30.00	2.4	19.49	≤36.00	PASS
		2437	16.80	≤30.00	2.4	19.20	≤36.00	PASS
		2452	16.34	≤30.00	2.4	18.74	≤36.00	PASS



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A.4 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.63	≤8.00	PASS
		2437	-5.86	≤8.00	PASS
		2462	-6.03	≤8.00	PASS
11G	Ant1	2412	-11.46	≤8.00	PASS
		2437	-11.55	≤8.00	PASS
		2462	-14.3	≤8.00	PASS
11N20SISO	Ant1	2412	-13.17	≤8.00	PASS
		2437	-12.6	≤8.00	PASS
		2462	-12.85	≤8.00	PASS
11N40SISO	Ant1	2422	-17.05	≤8.00	PASS
		2437	-17.81	≤8.00	PASS
		2452	-18.31	≤8.00	PASS



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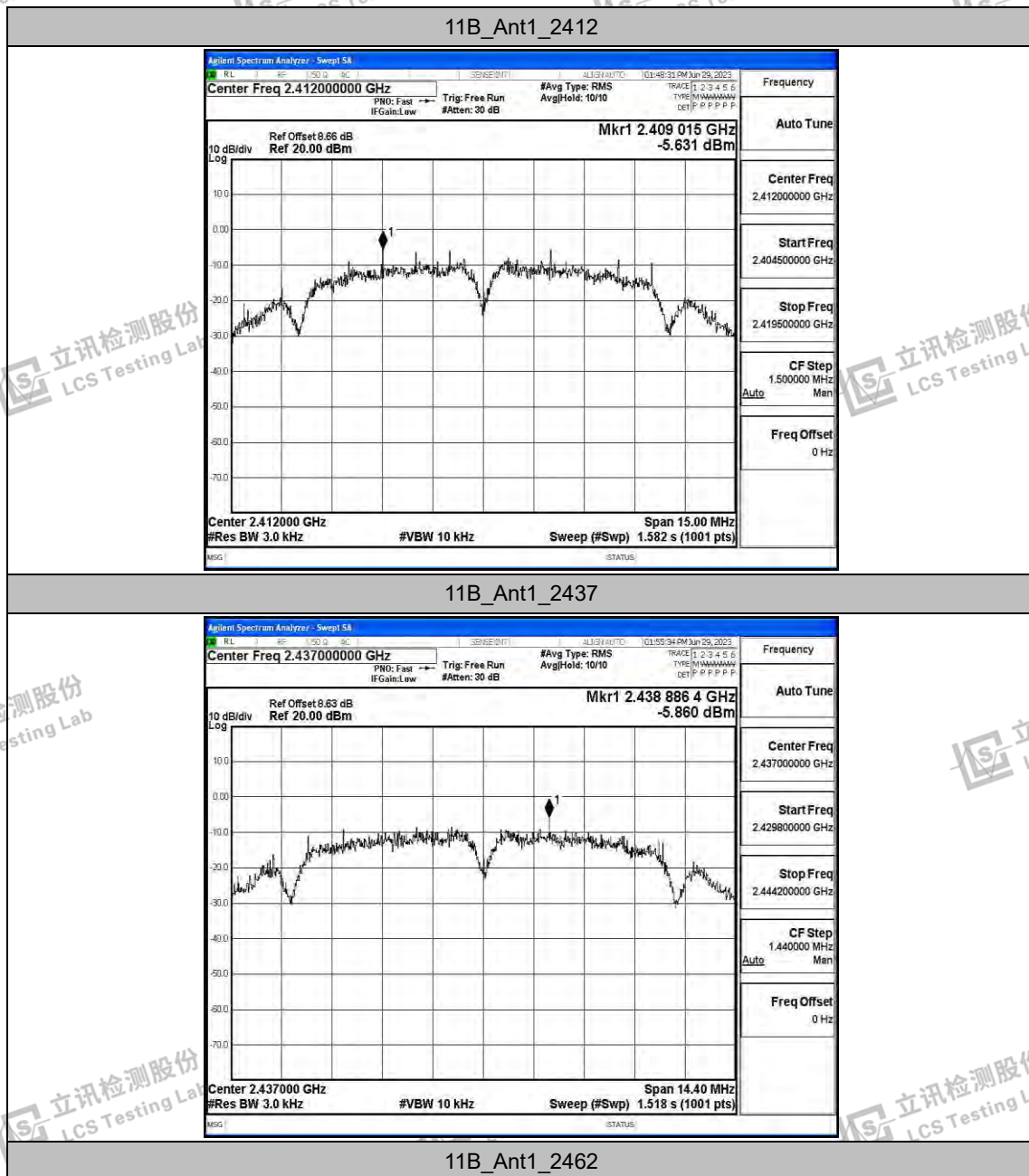
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Test Graphs

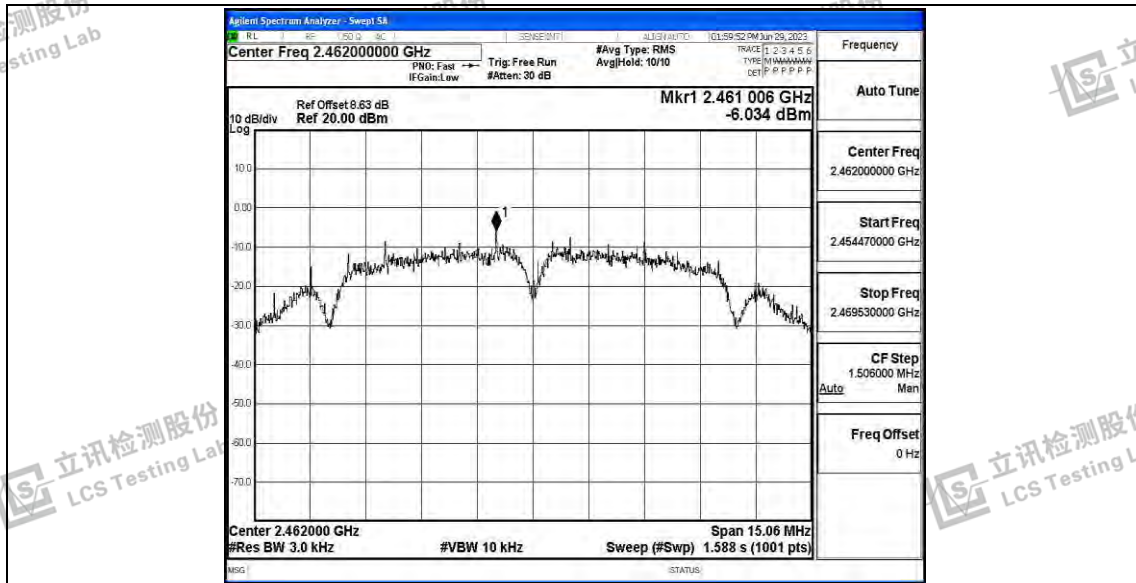


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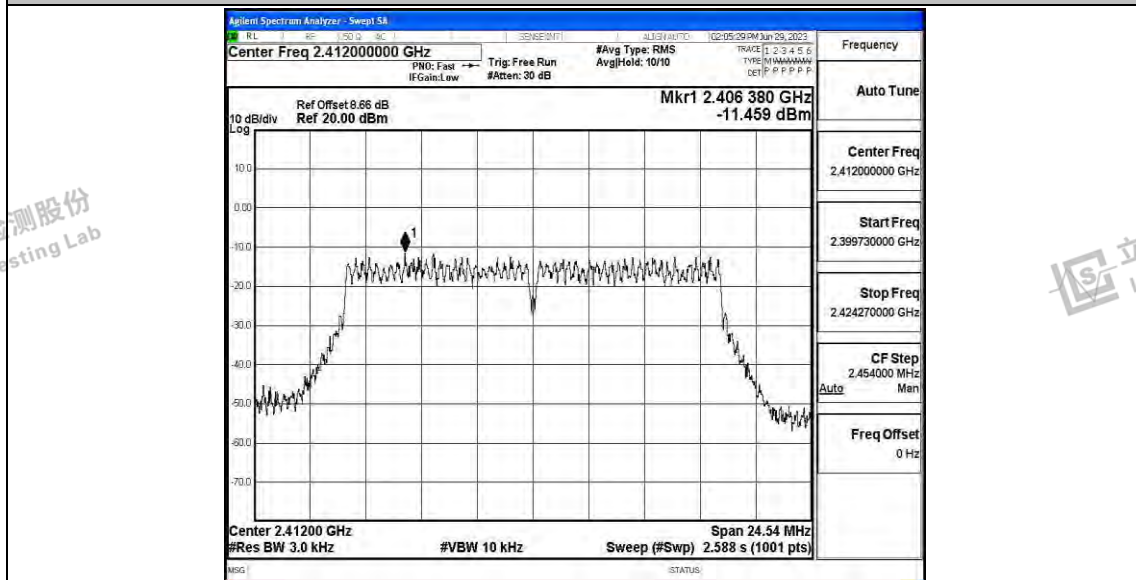
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11G_Ant1_2412



11G_Ant1_2437

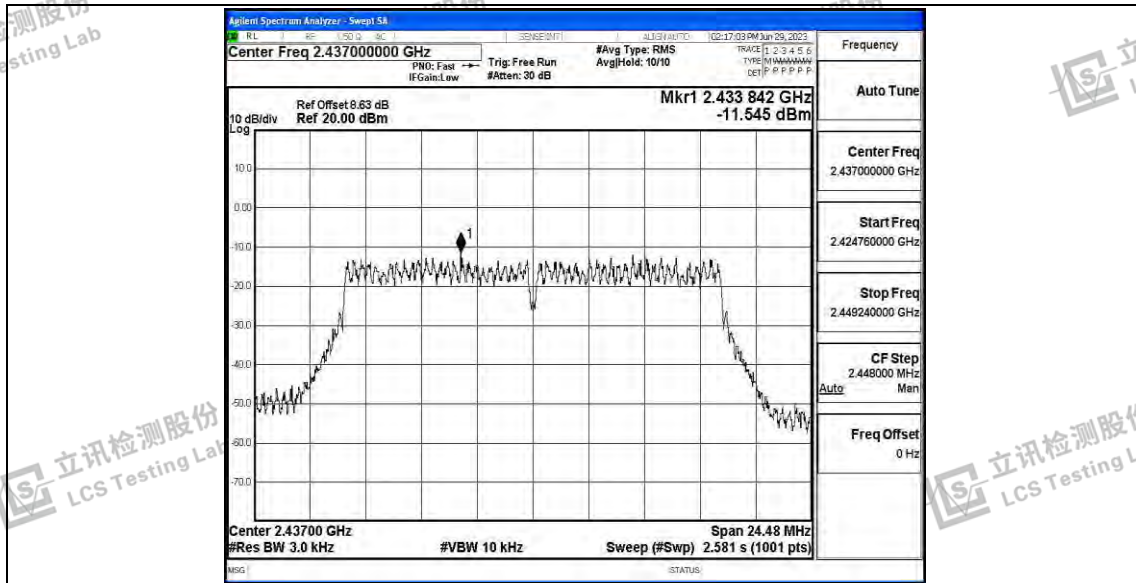


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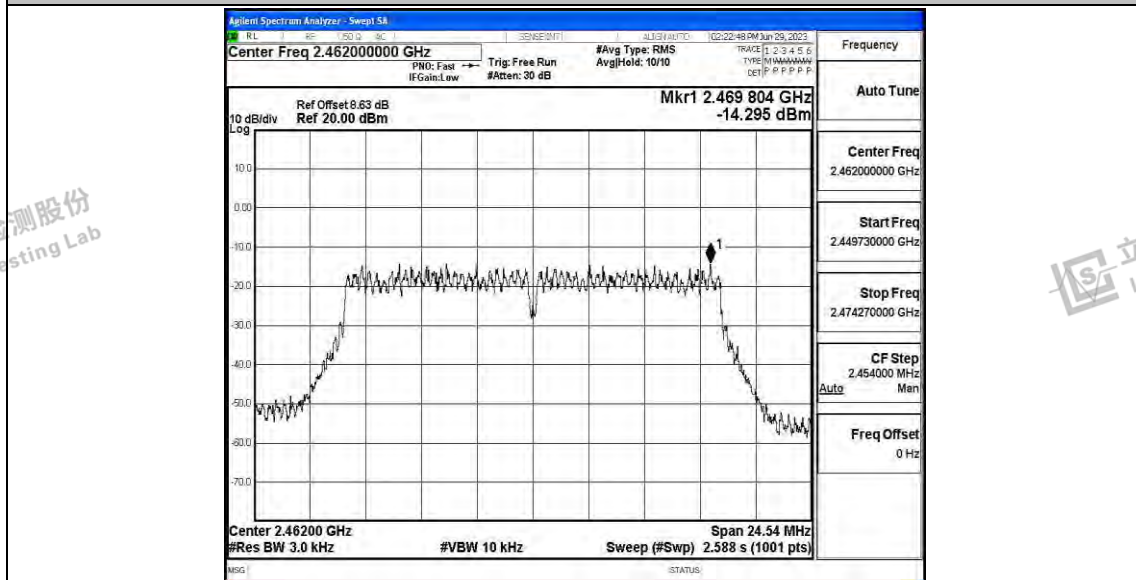
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11G_Ant1_2462



11N20SISO_Ant1_2412

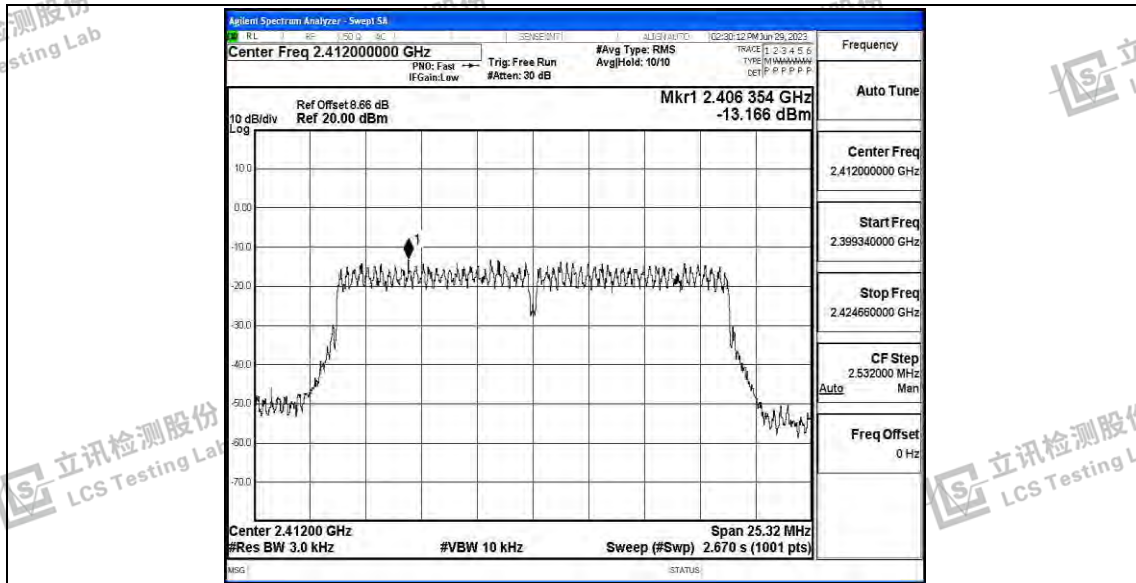


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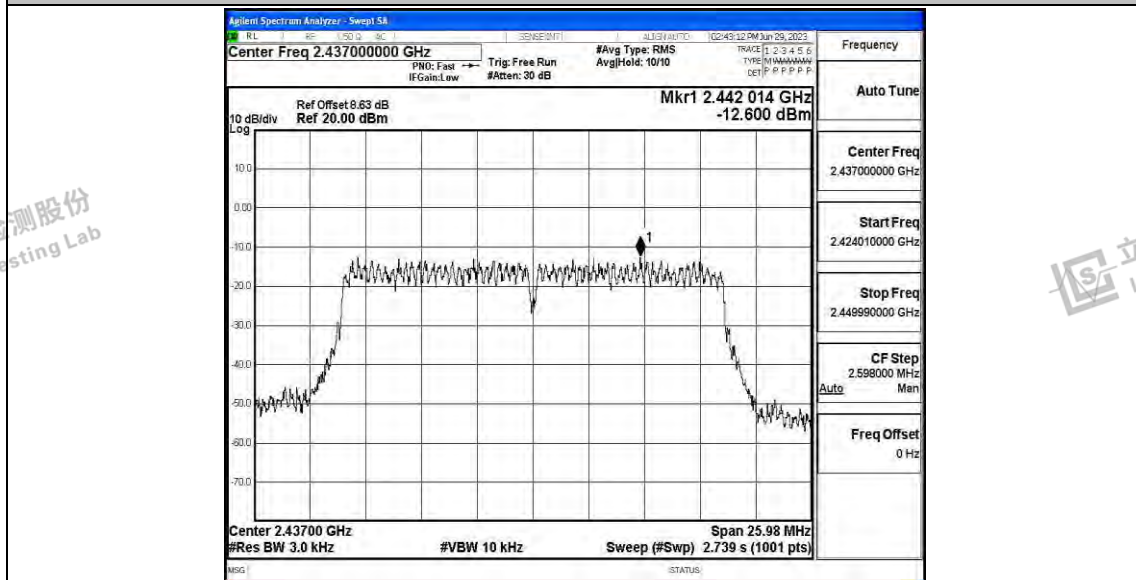
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

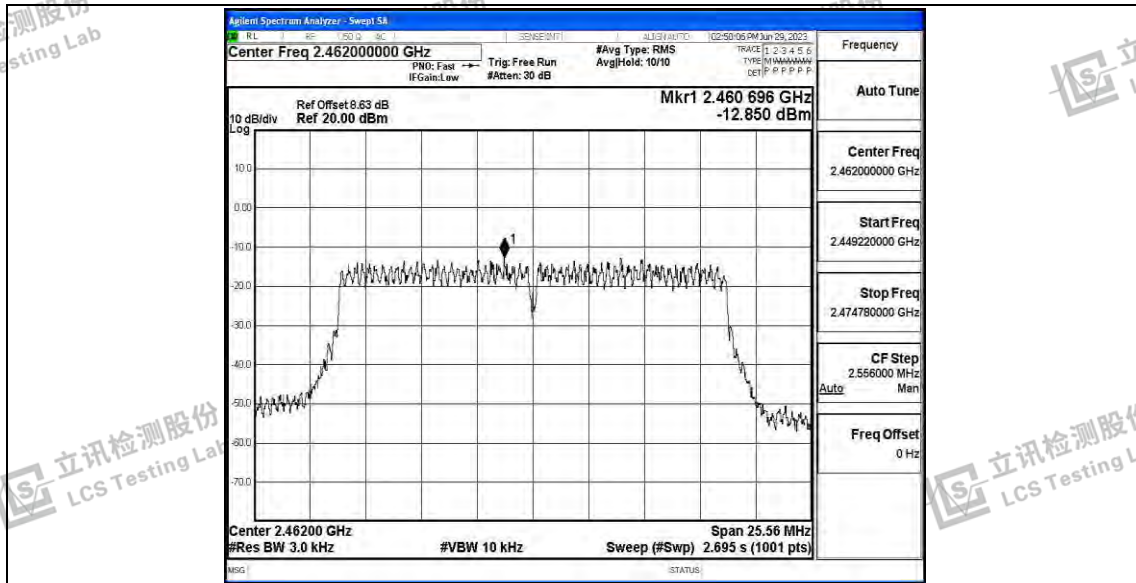


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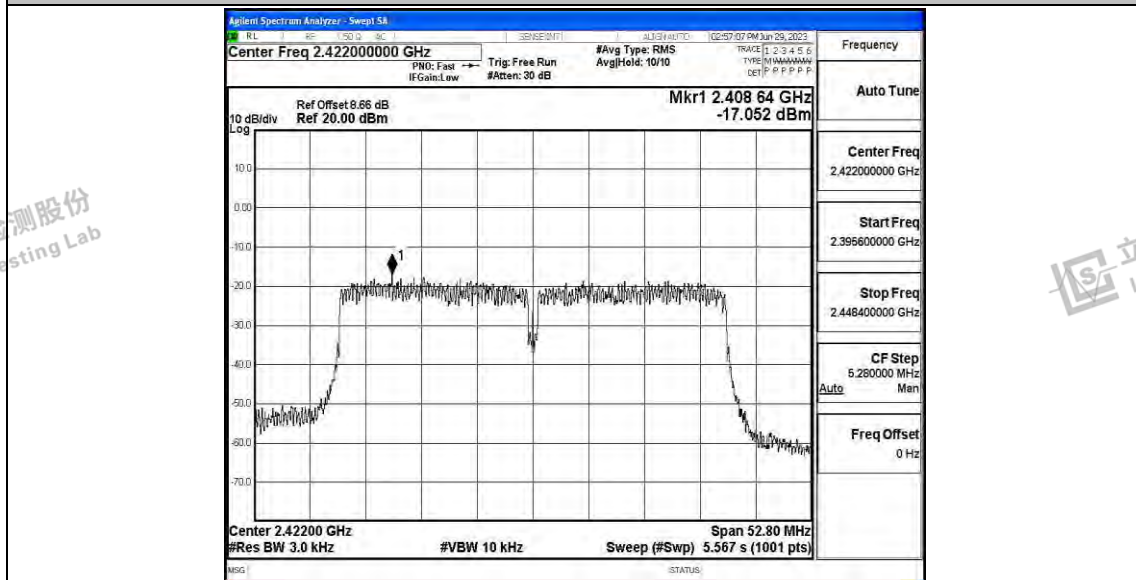
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

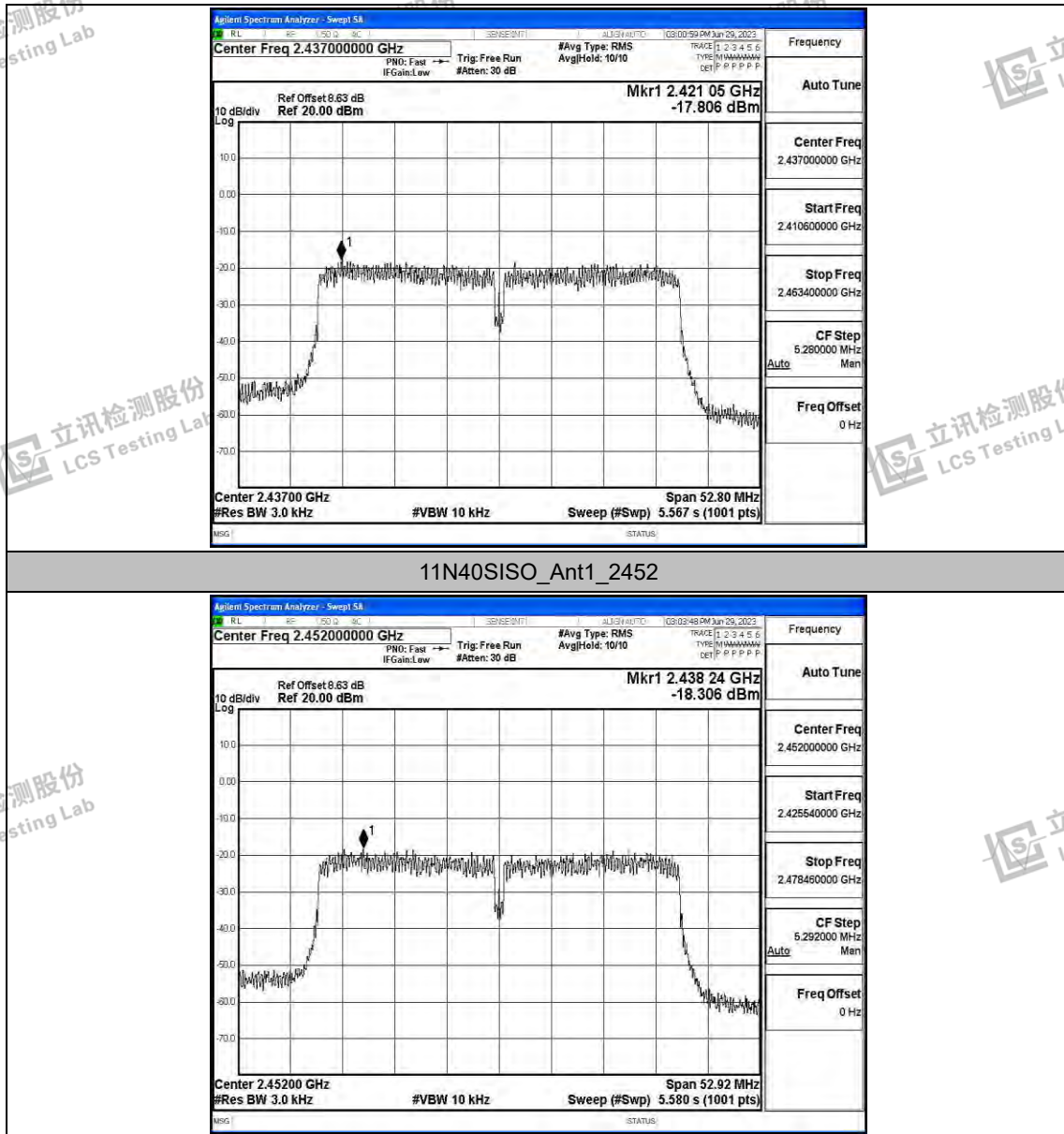


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A.5 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.01	-31.67	≤-13.99	PASS
		High	2462	5.22	-48.09	≤-14.78	PASS
11G	Ant1	Low	2412	1.80	-32.1	≤-18.2	PASS
		High	2462	-0.76	-44.41	≤-20.76	PASS
11N20SISO	Ant1	Low	2412	0.57	-32.06	≤-19.43	PASS
		High	2462	1.28	-43.82	≤-18.72	PASS
11N40SISO	Ant1	Low	2422	-2.79	-33.51	≤-22.79	PASS
		High	2452	-3.96	-43.65	≤-23.96	PASS



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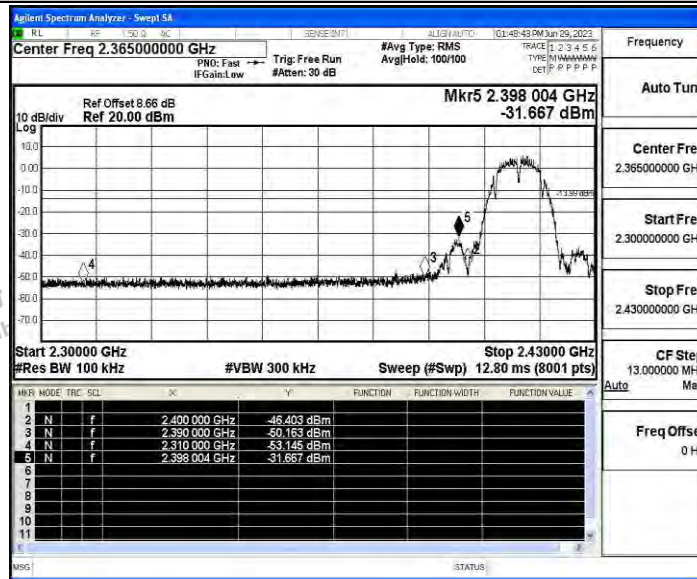
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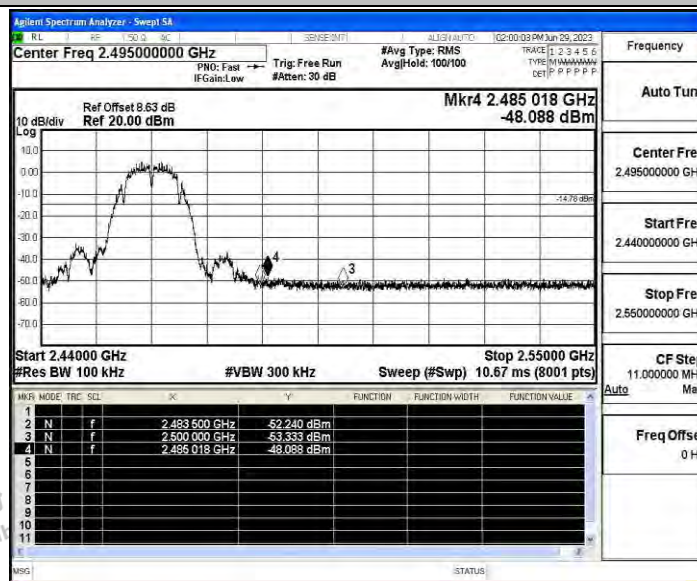


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

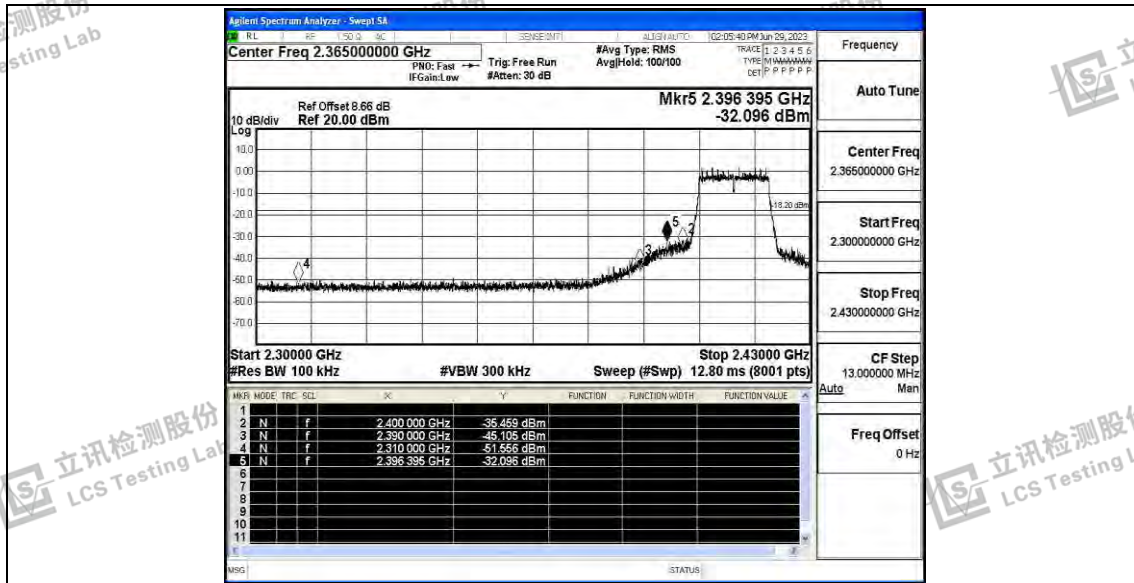


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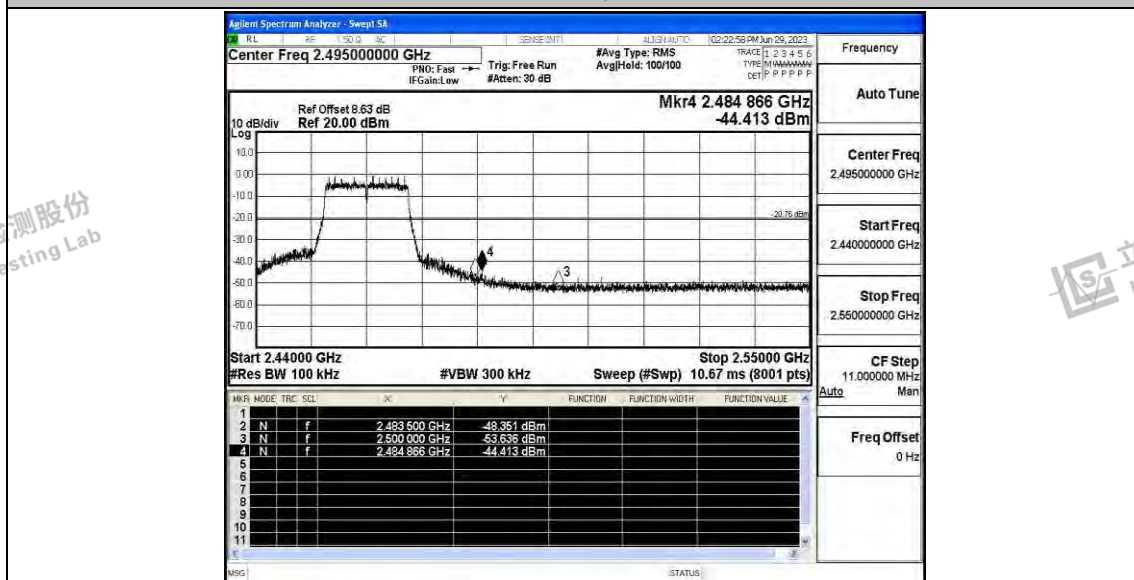
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

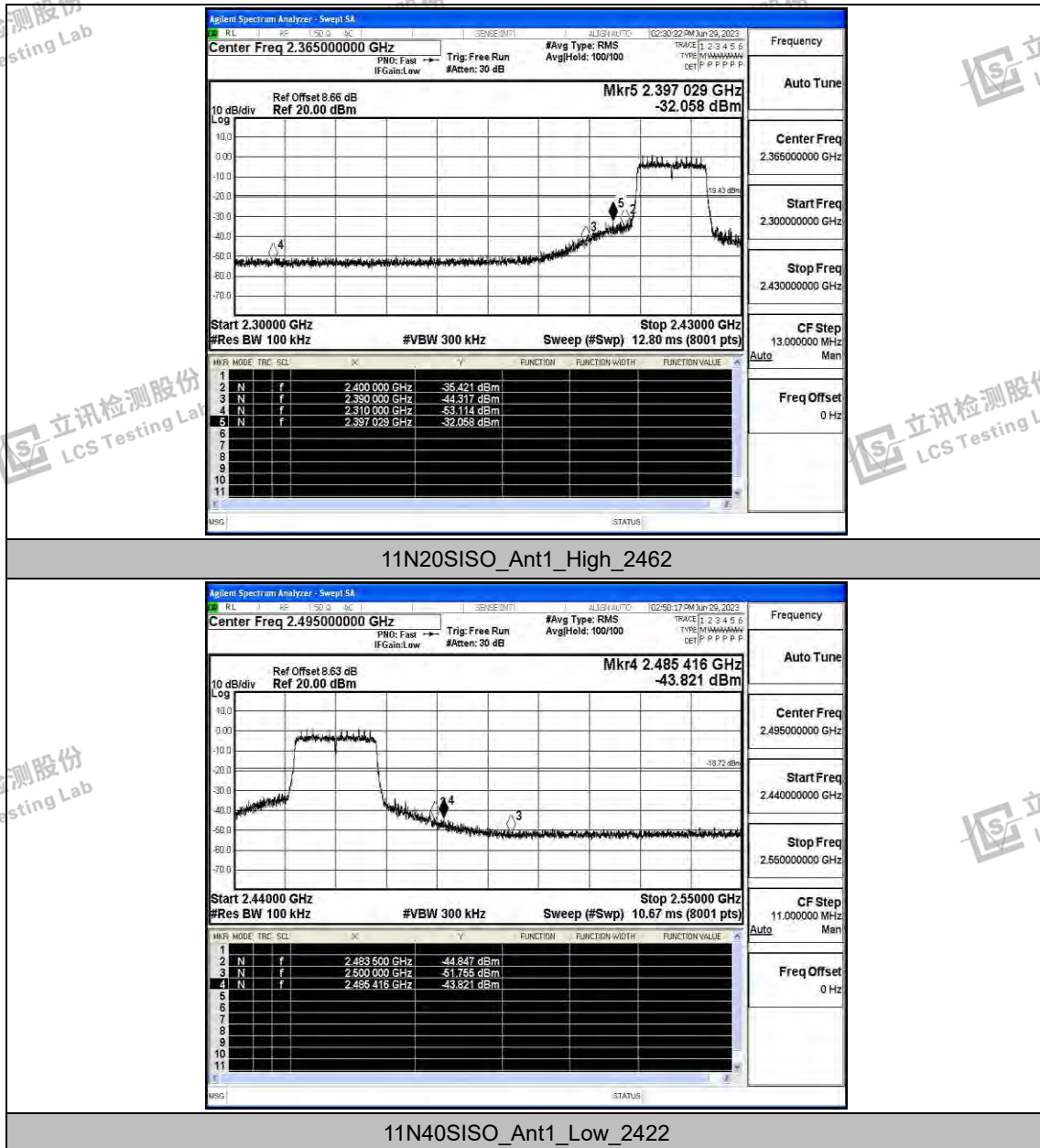


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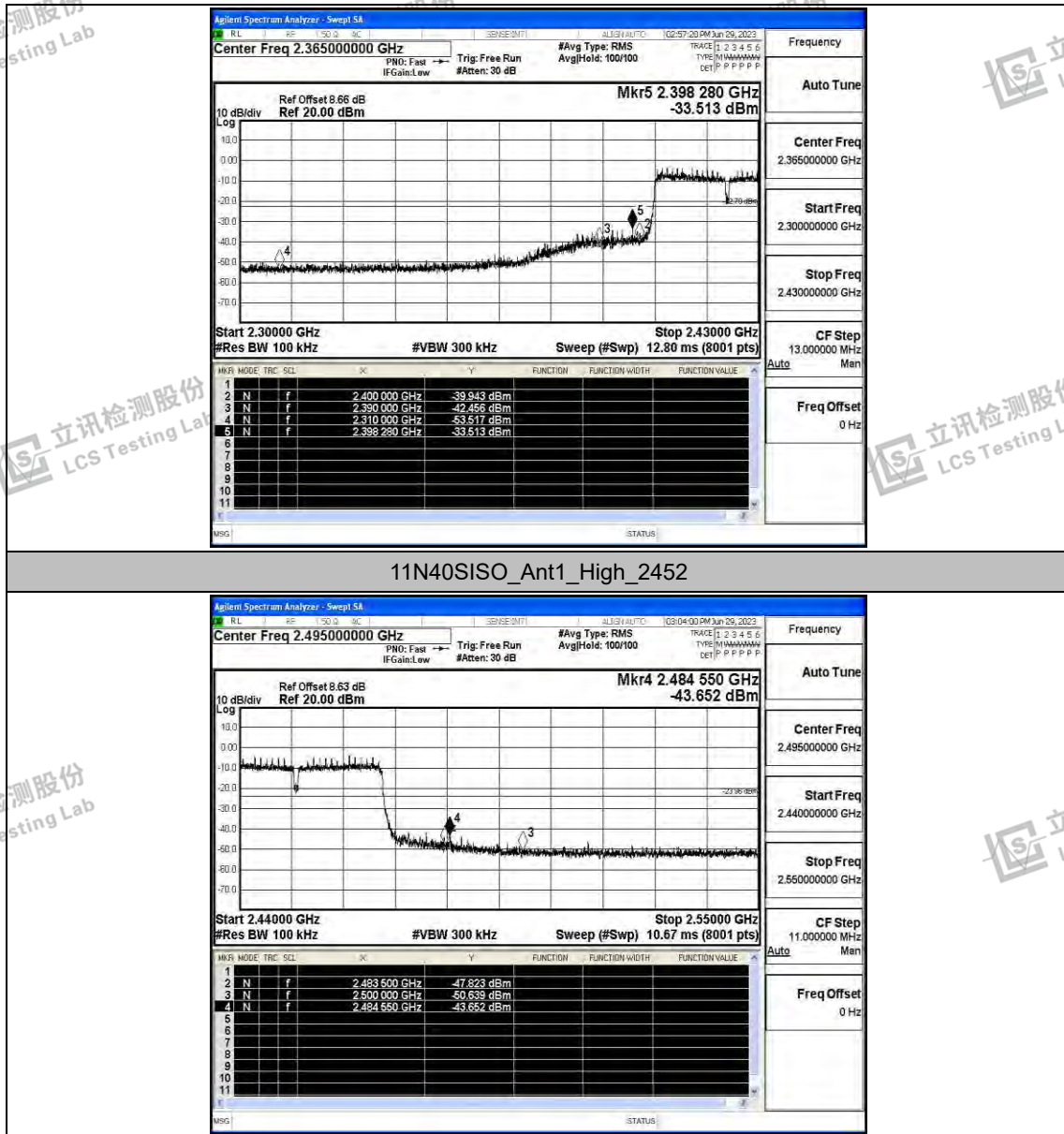


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A.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	6.01	-61.13	≤-13.99	PASS
			1000~26500	6.01	-46.44	≤-13.99	PASS
		2437	30~1000	5.60	-60.93	≤-14.4	PASS
			1000~26500	5.60	-46.72	≤-14.4	PASS
		2462	30~1000	5.22	-60.7	≤-14.78	PASS
			1000~26500	5.22	-46.46	≤-14.78	PASS
11G	Ant1	2412	30~1000	1.80	-61.06	≤-18.2	PASS
			1000~26500	1.80	-45.31	≤-18.2	PASS
		2437	30~1000	1.39	-61.13	≤-18.61	PASS
			1000~26500	1.39	-46.68	≤-18.61	PASS
		2462	30~1000	-0.76	-61.14	≤-20.76	PASS
			1000~26500	-0.76	-46.7	≤-20.76	PASS
11N20SISO	Ant1	2412	30~1000	0.57	-60.57	≤-19.43	PASS
			1000~26500	0.57	-46.32	≤-19.43	PASS
		2437	30~1000	1.65	-60.9	≤-18.35	PASS
			1000~26500	1.65	-45.97	≤-18.35	PASS
		2462	30~1000	1.28	-61.17	≤-18.72	PASS
			1000~26500	1.28	-46.18	≤-18.72	PASS
11N40SISO	Ant1	2422	30~1000	-2.79	-58.75	≤-22.79	PASS
			1000~26500	-2.79	-45.45	≤-22.79	PASS
		2437	30~1000	-3.03	-59.23	≤-23.03	PASS
			1000~26500	-3.03	-46.64	≤-23.03	PASS
		2452	30~1000	-3.96	-59.06	≤-23.96	PASS
			1000~26500	-3.96	-46.22	≤-23.96	PASS



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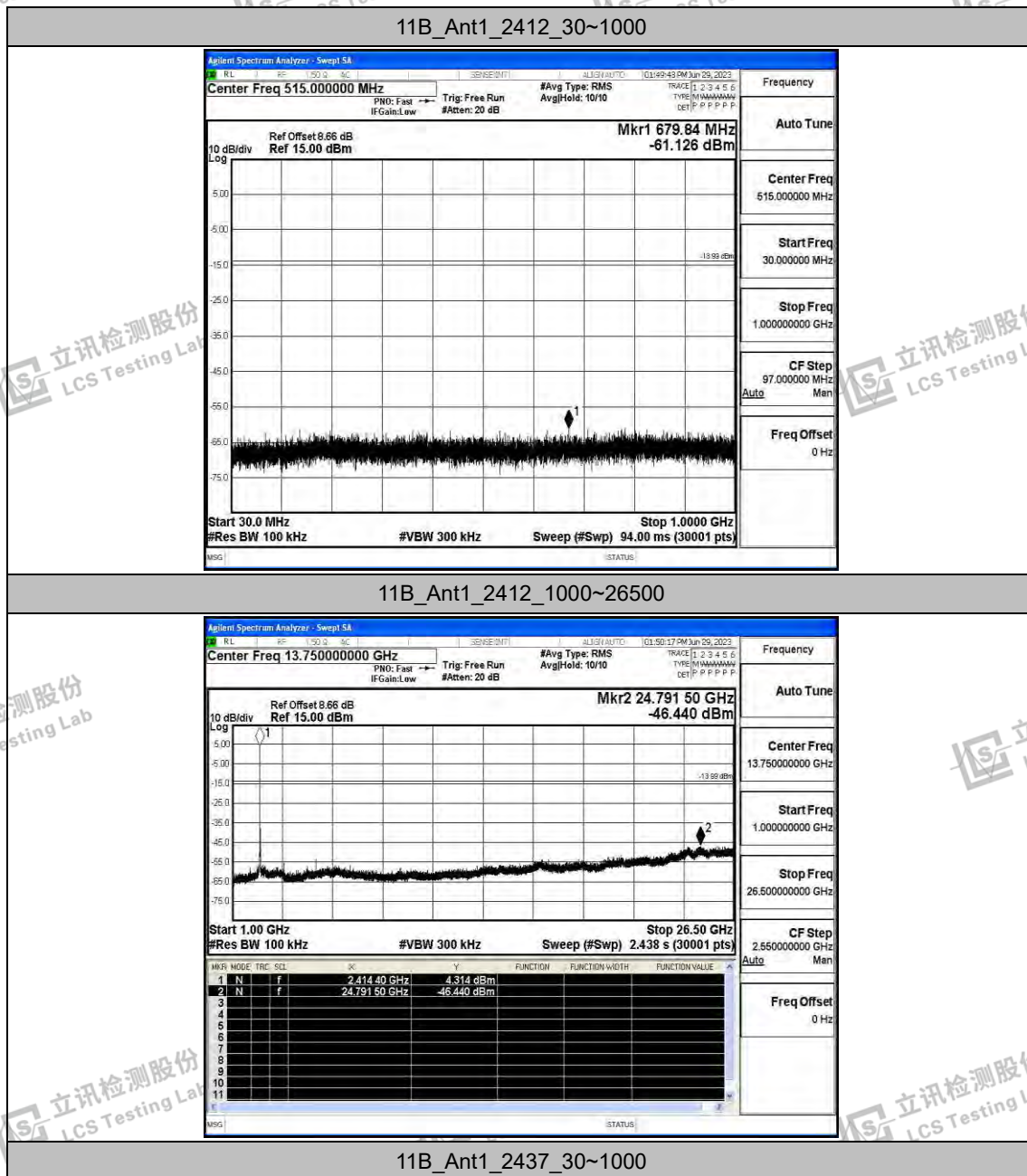
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Test Graphs

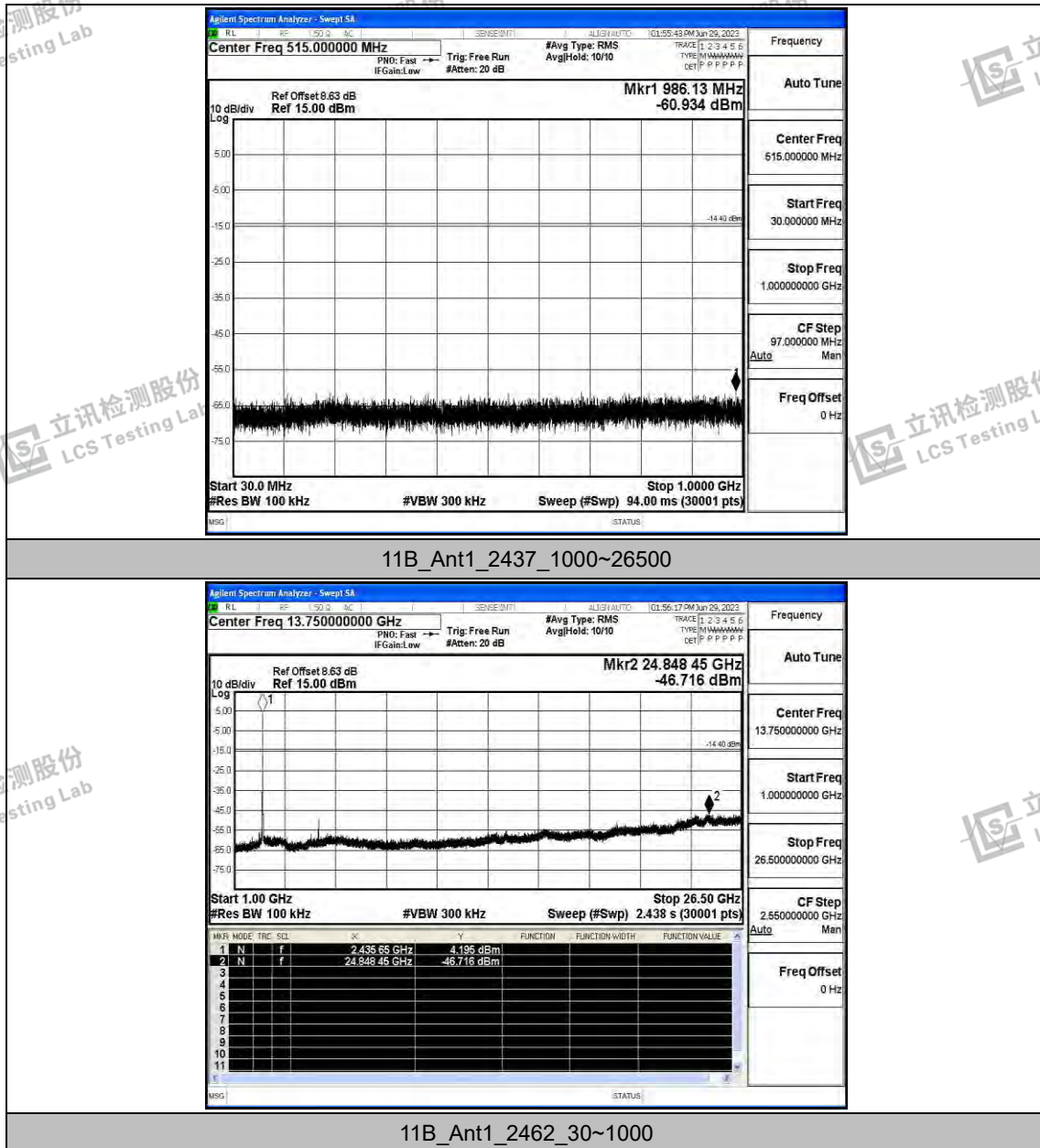


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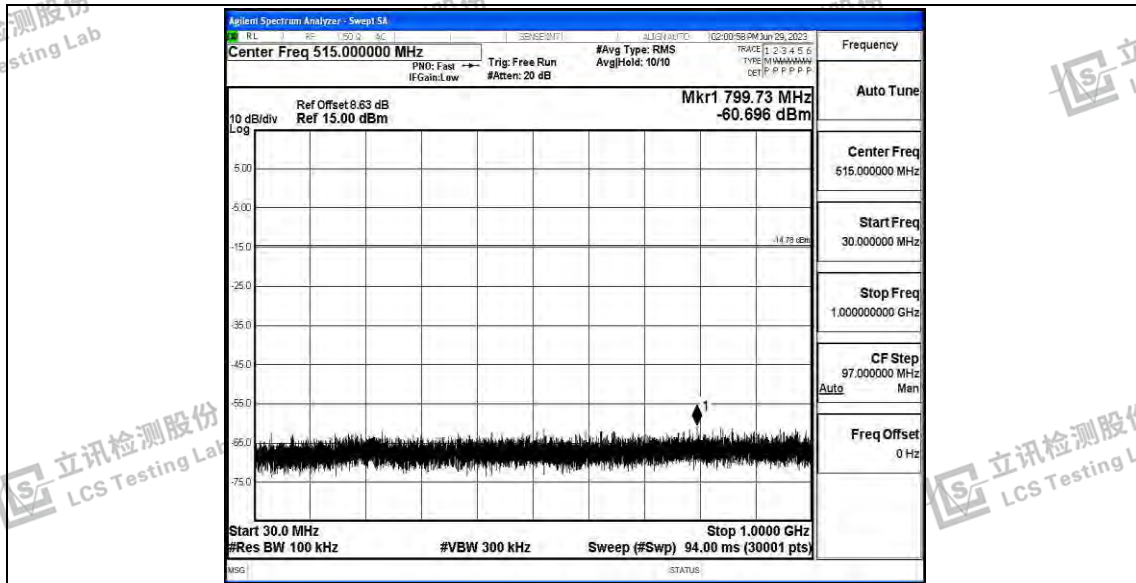


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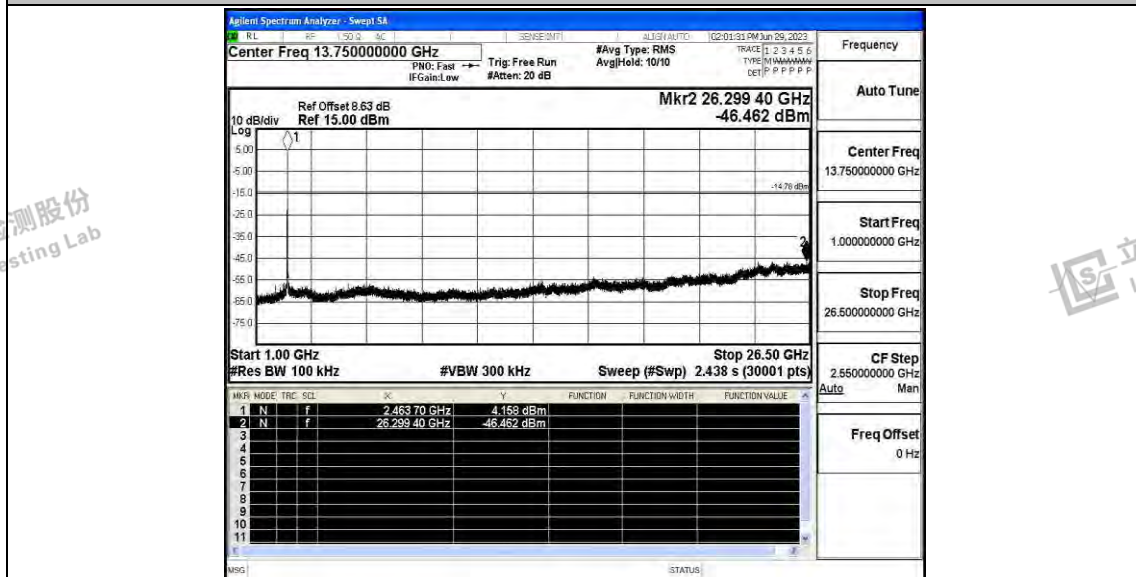
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

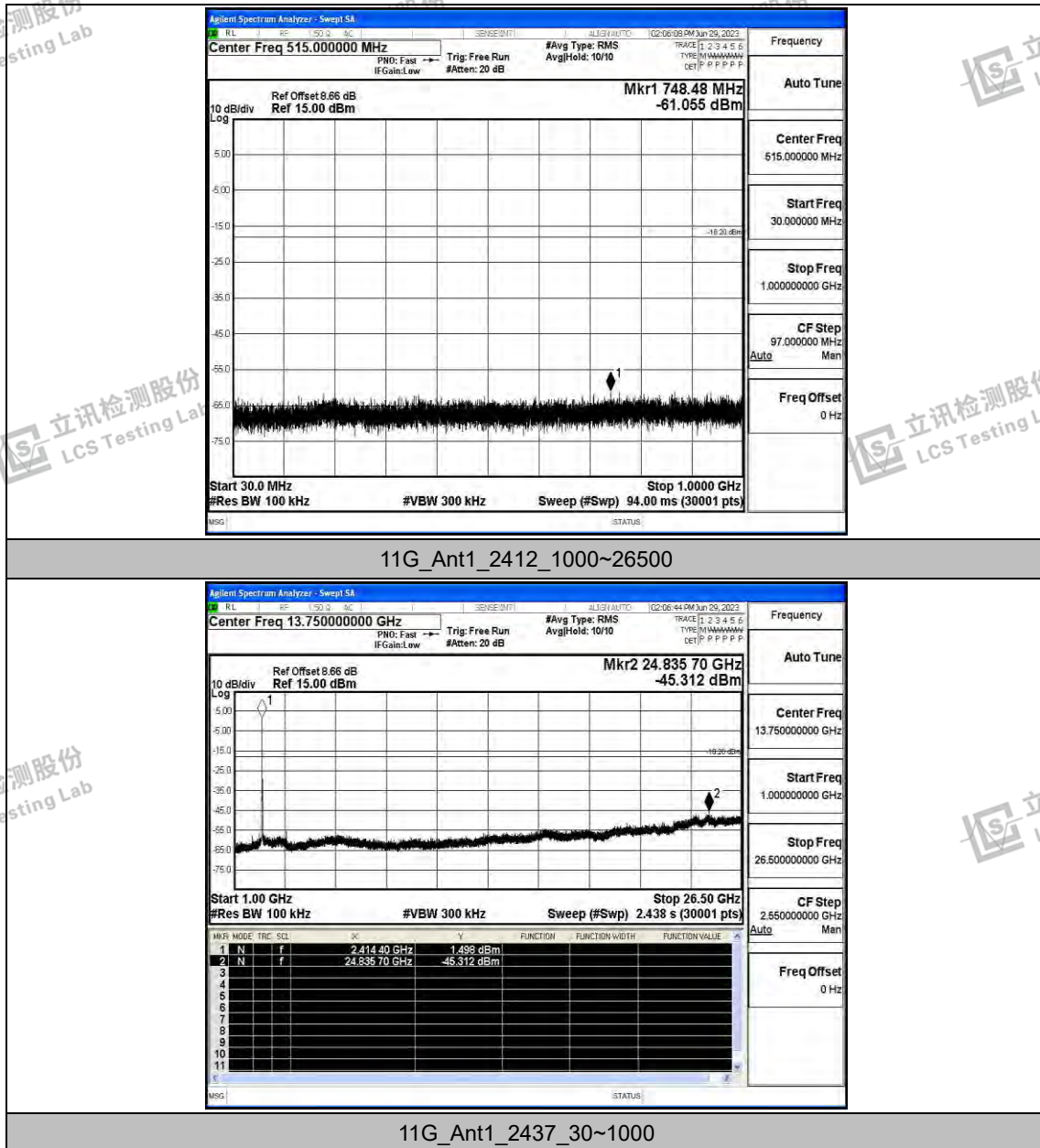


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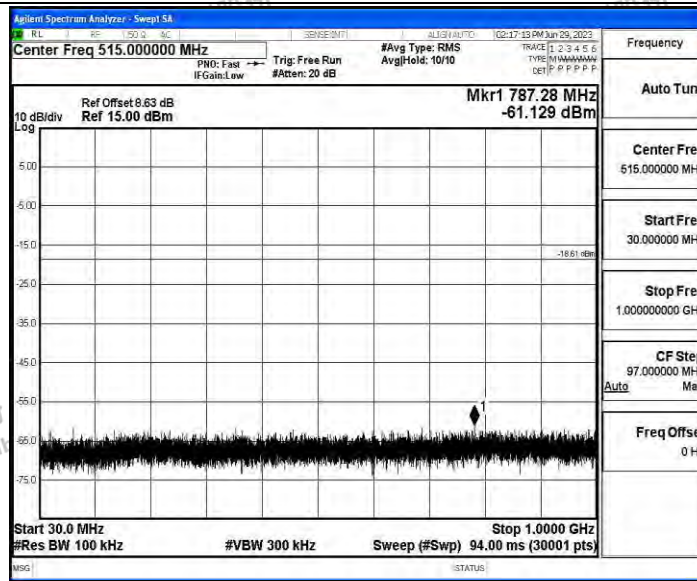


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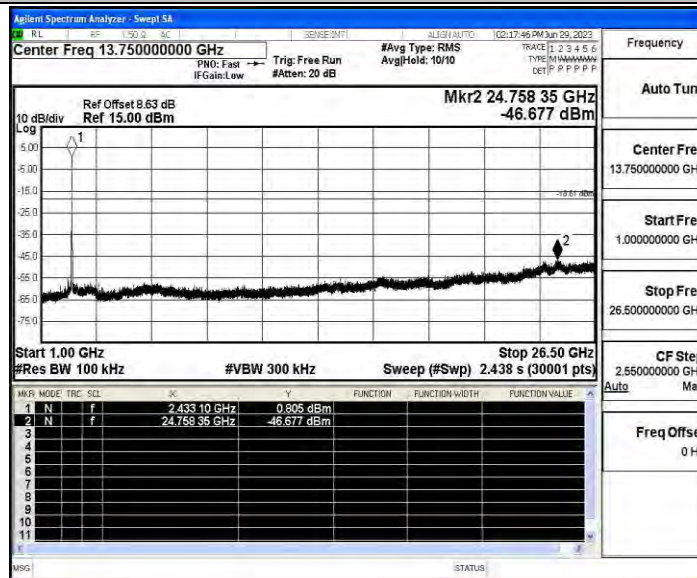
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11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

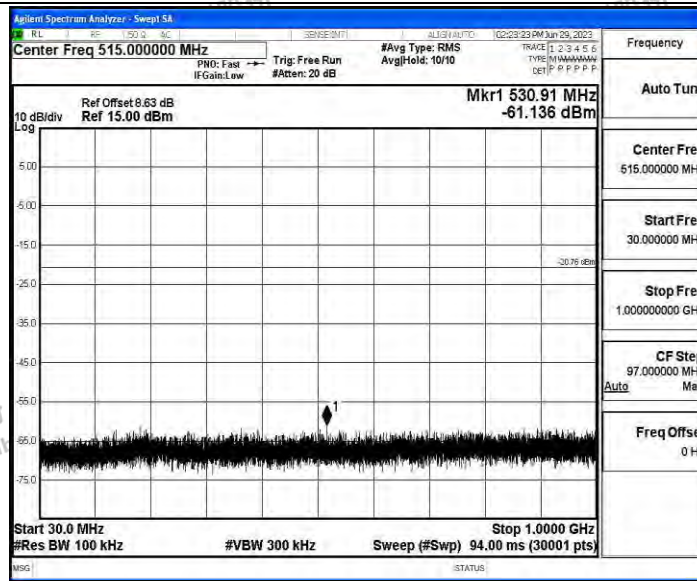


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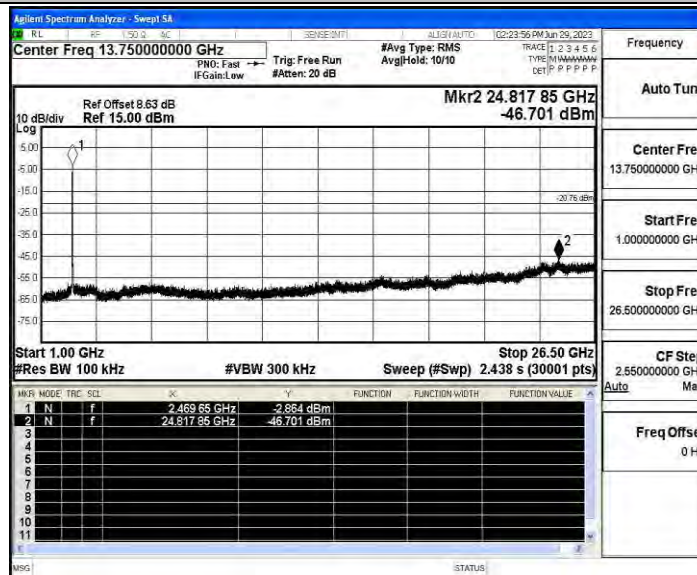
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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

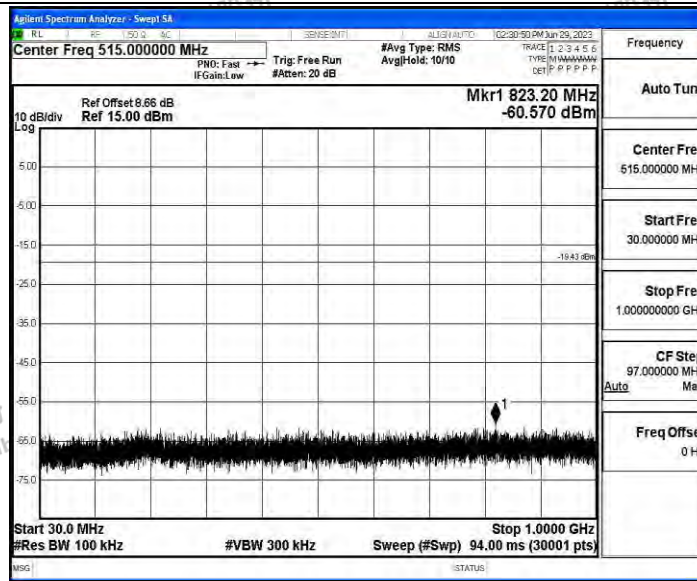


Shenzhen LCS Compliance Testing Laboratory Ltd.

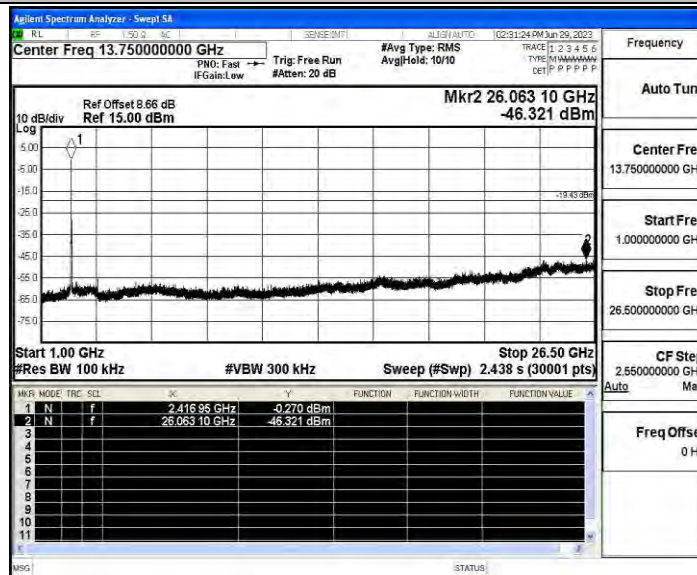
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

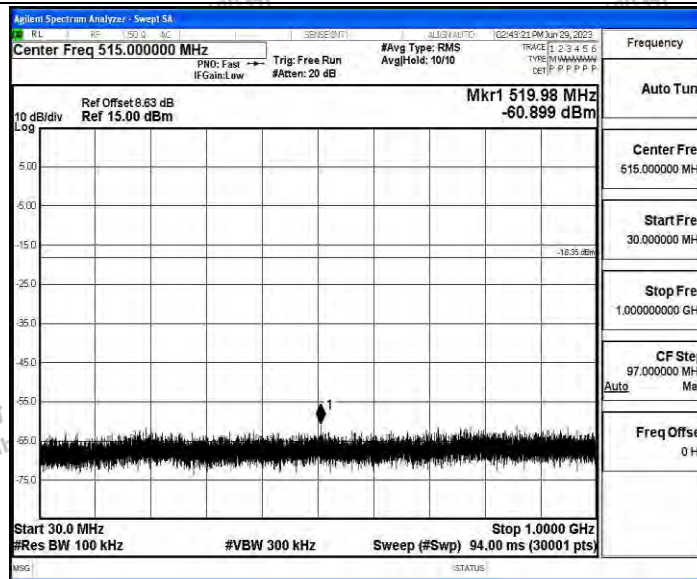


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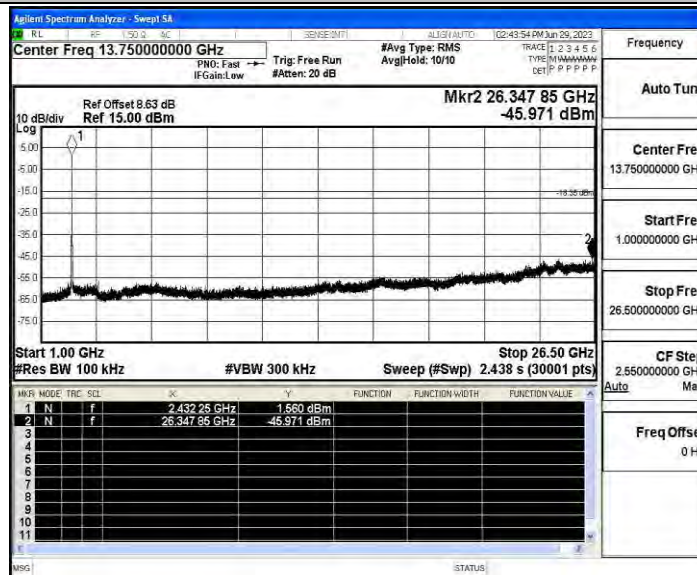
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

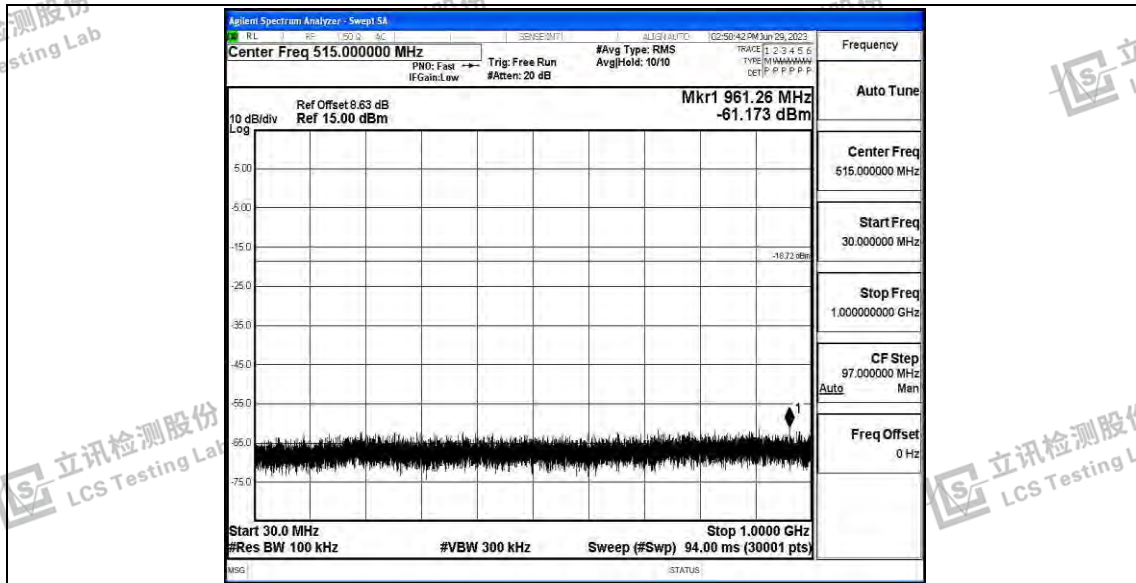


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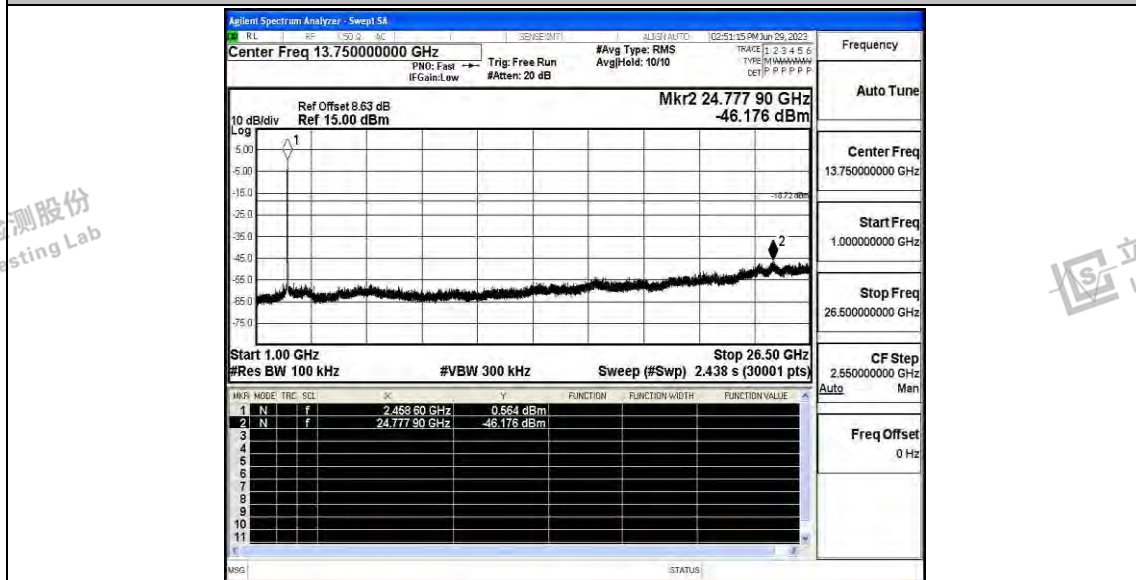
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_30~1000

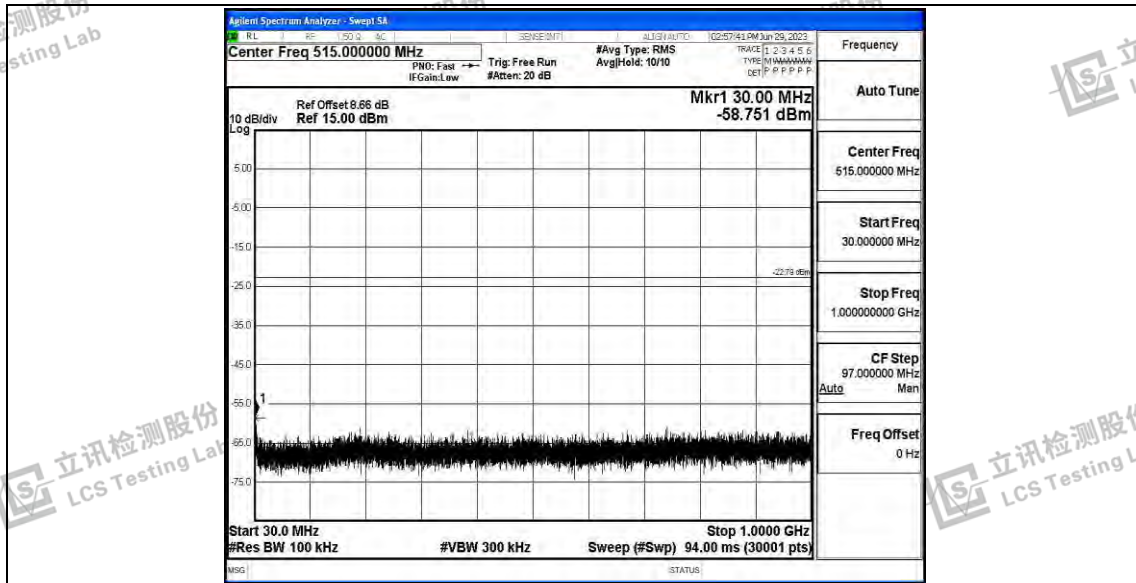


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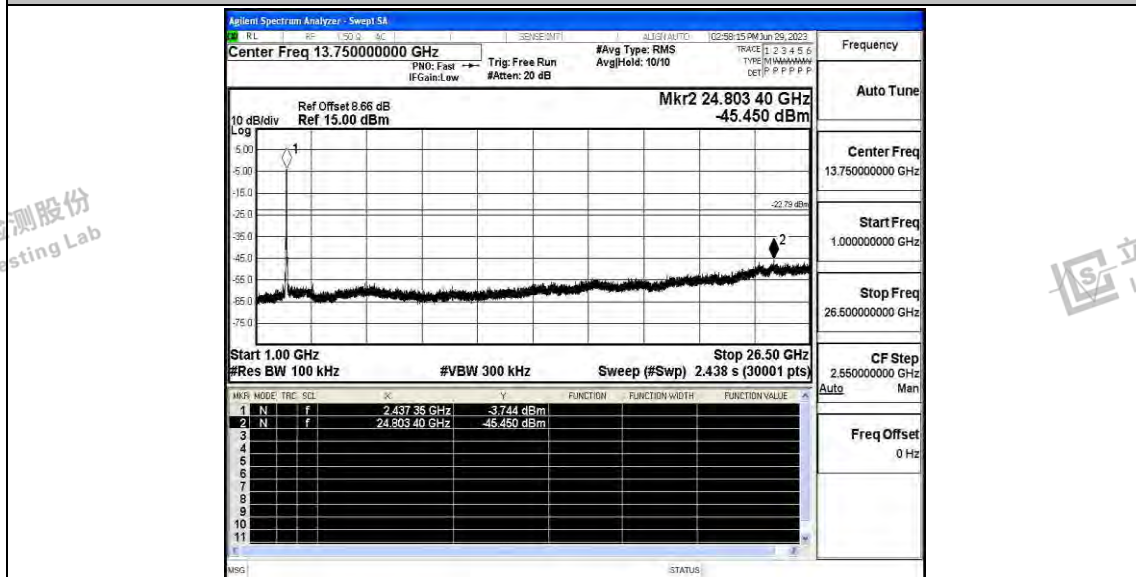
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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000

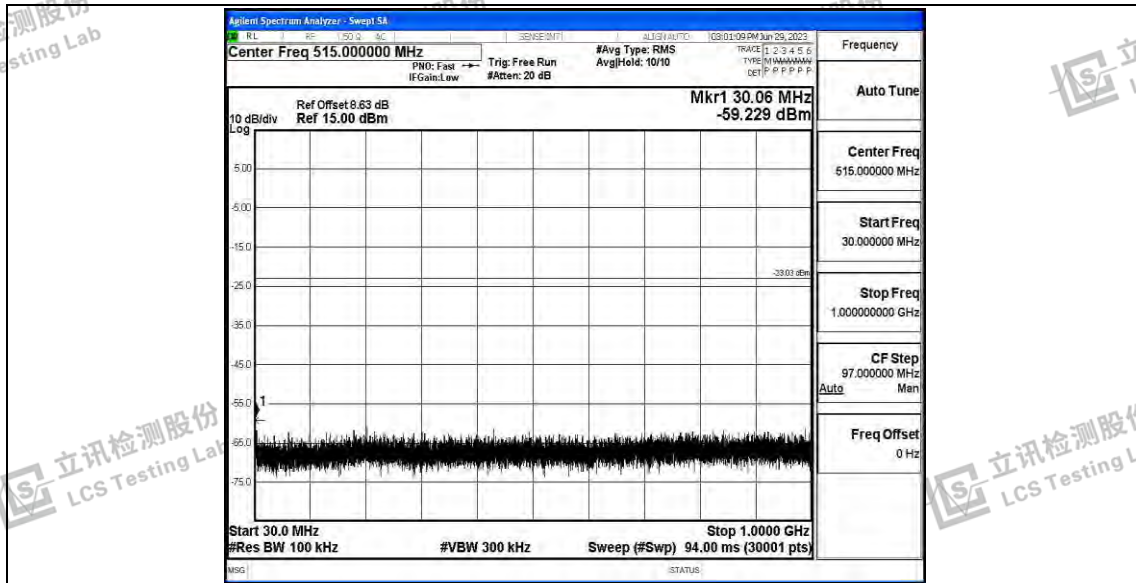


Shenzhen LCS Compliance Testing Laboratory Ltd.

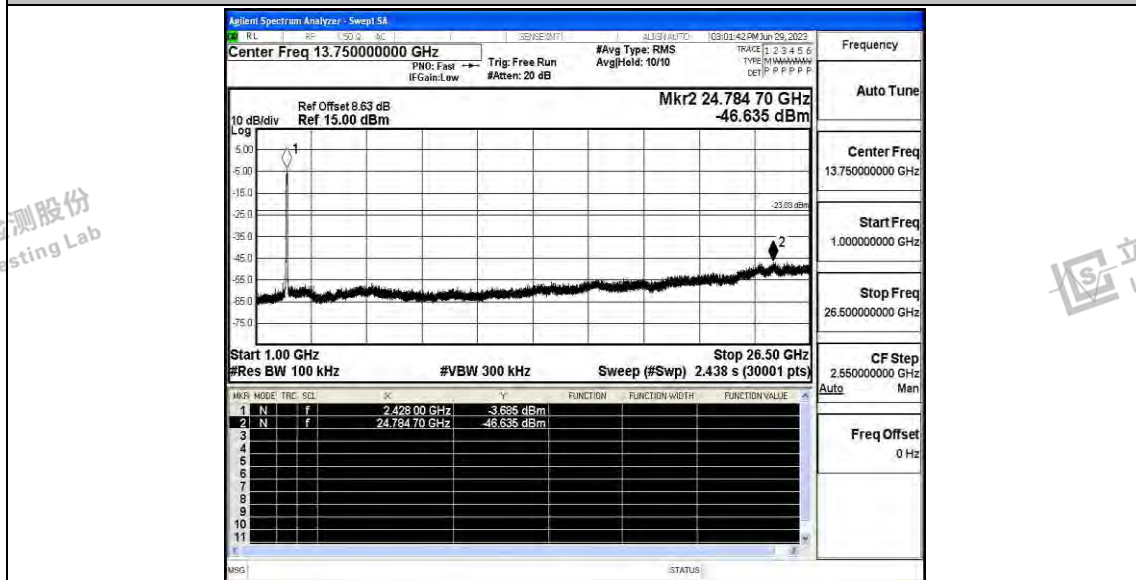
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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

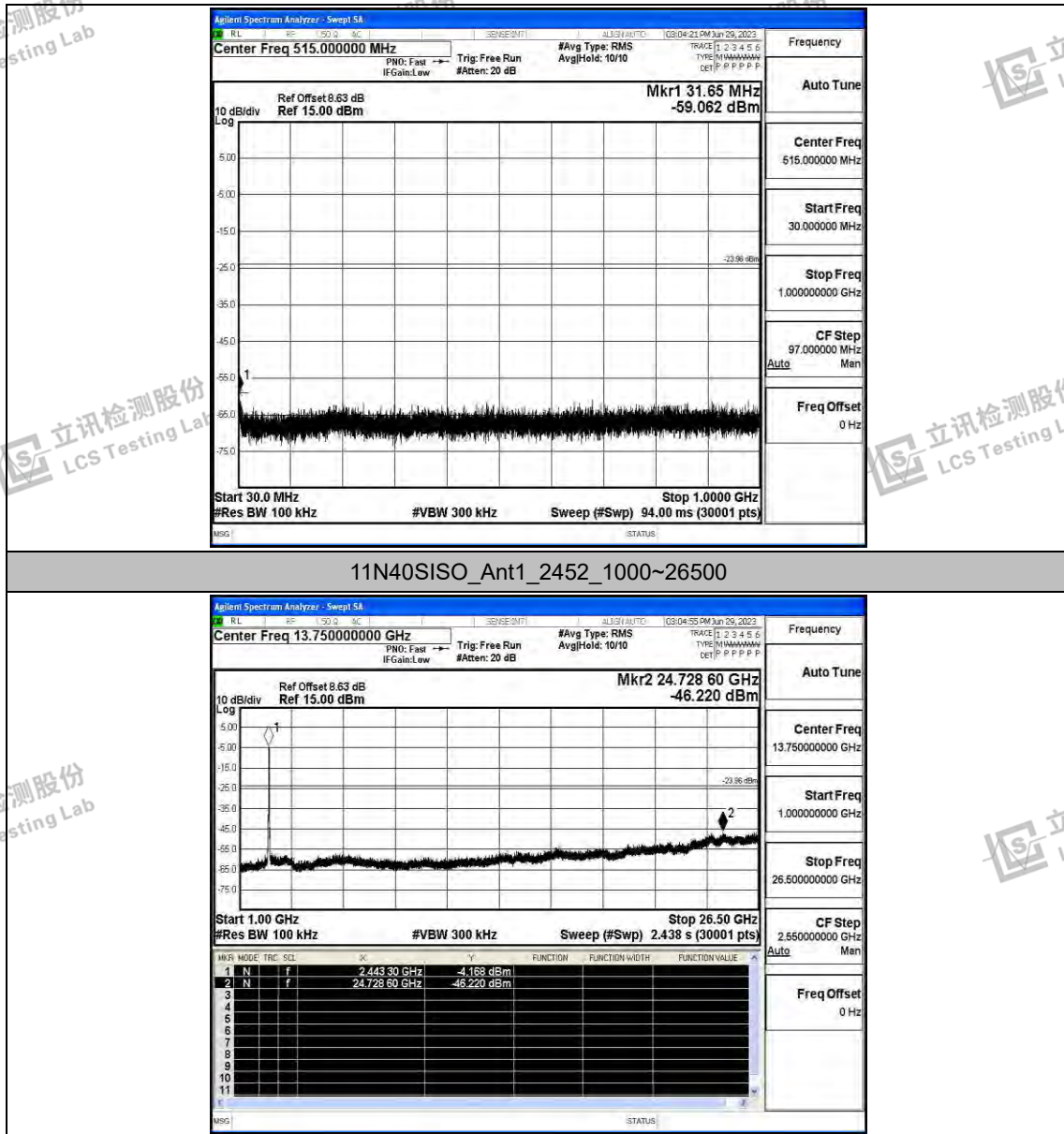


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A.7 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	4.31	4.41	97.73
		2437	4.30	4.40	97.73
		2462	4.31	4.41	97.73
11G	Ant1	2412	0.70	0.75	93.33
		2437	0.70	0.74	94.59
		2462	0.70	0.74	94.59
11N20SISO	Ant1	2412	0.66	0.71	92.96
		2437	0.67	0.71	94.37
		2462	0.67	0.71	94.37
11N40SISO	Ant1	2422	0.33	0.37	89.19
		2437	0.33	0.37	89.19
		2452	0.32	0.37	86.49



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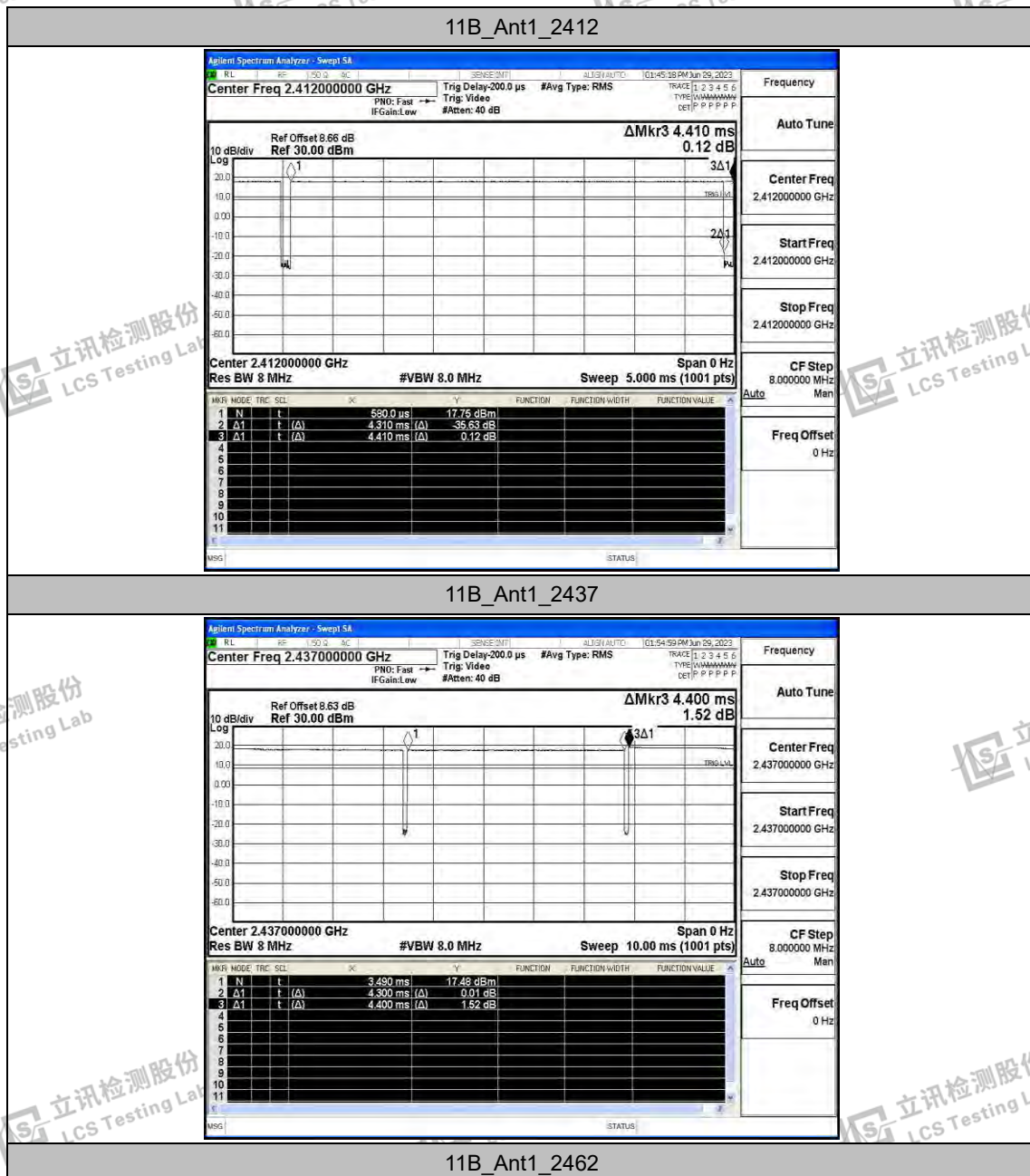
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Test Graphs

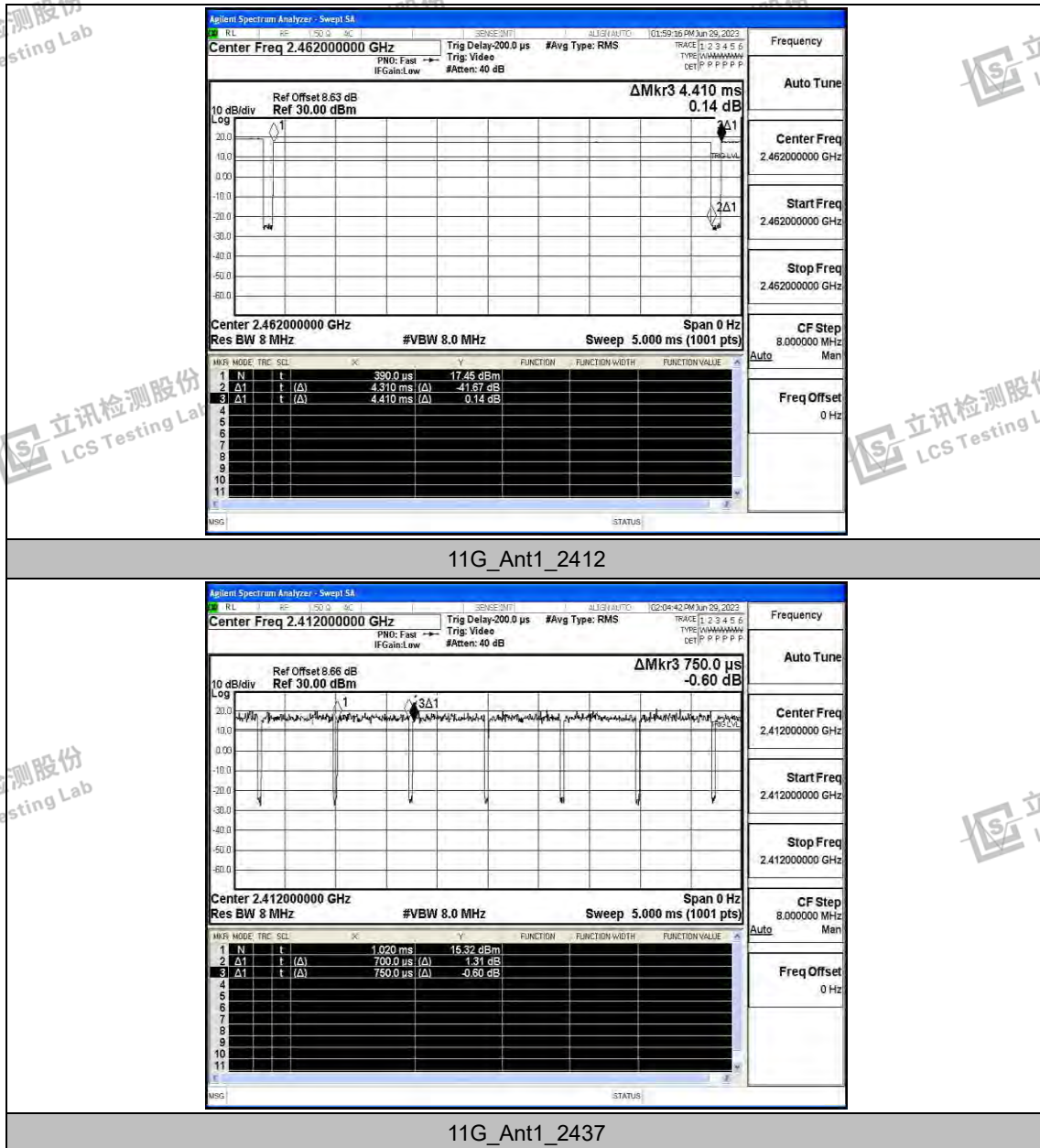


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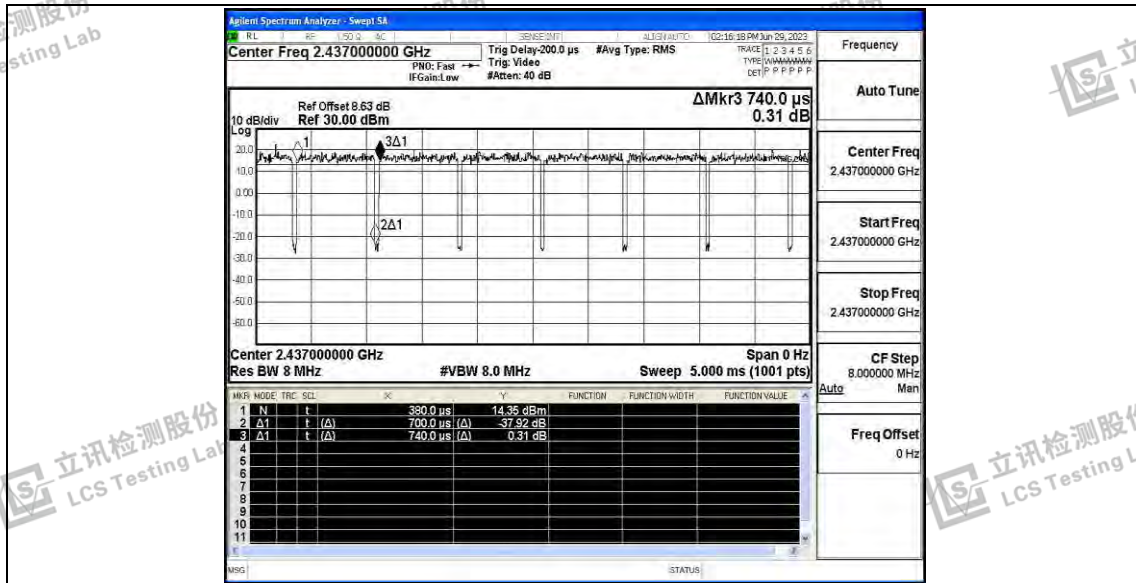


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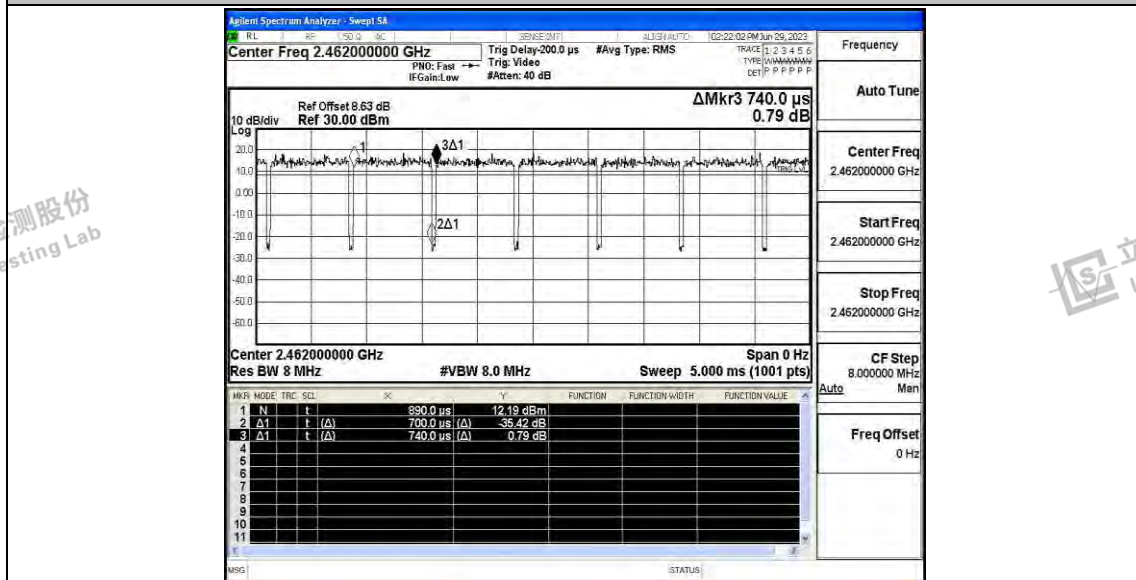
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

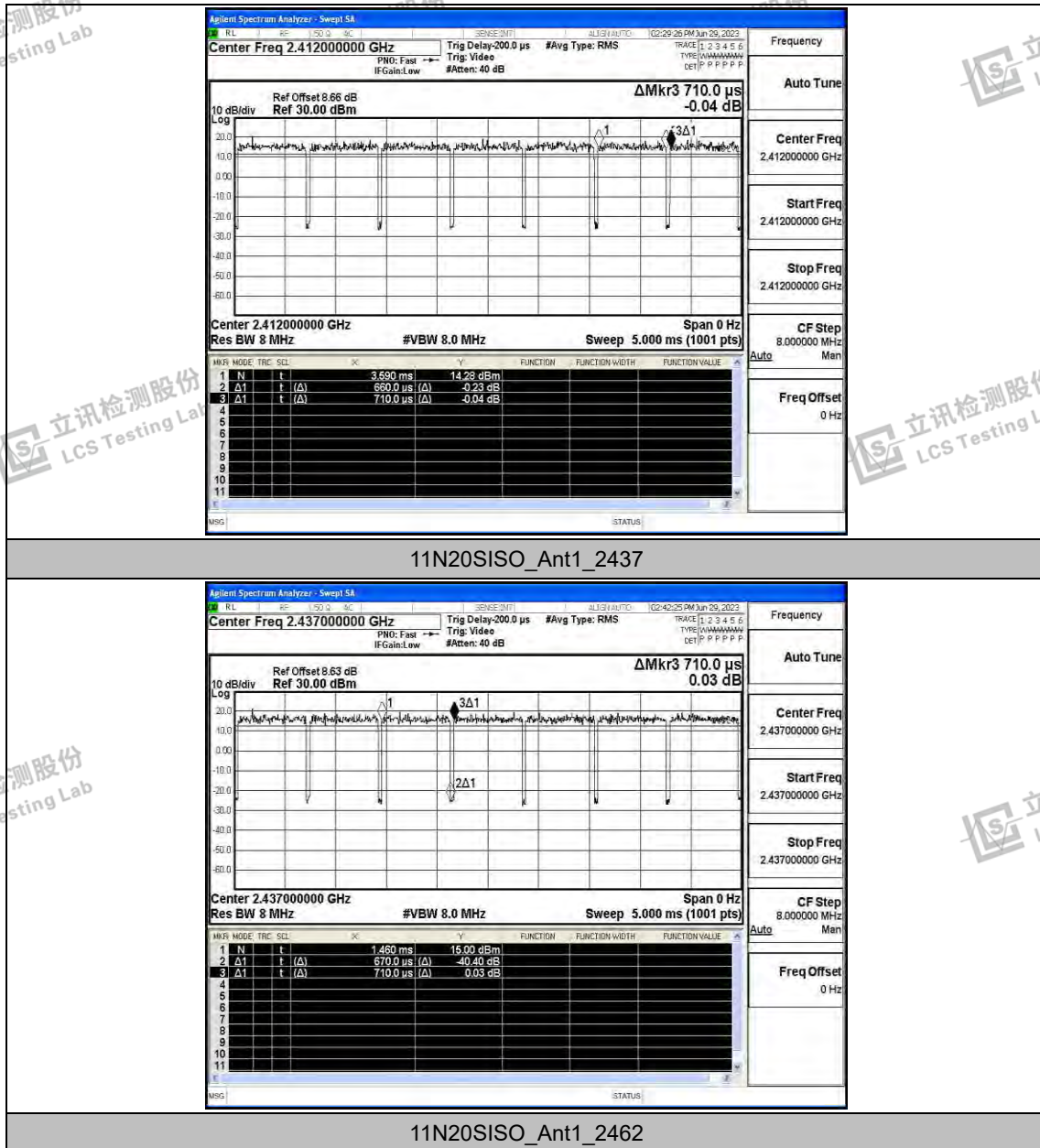


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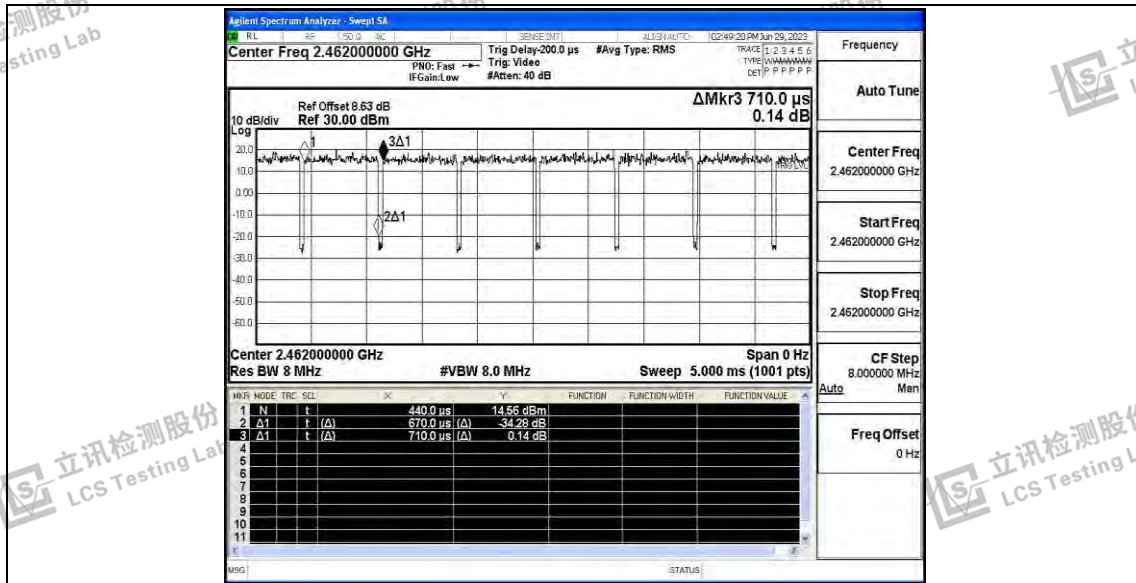


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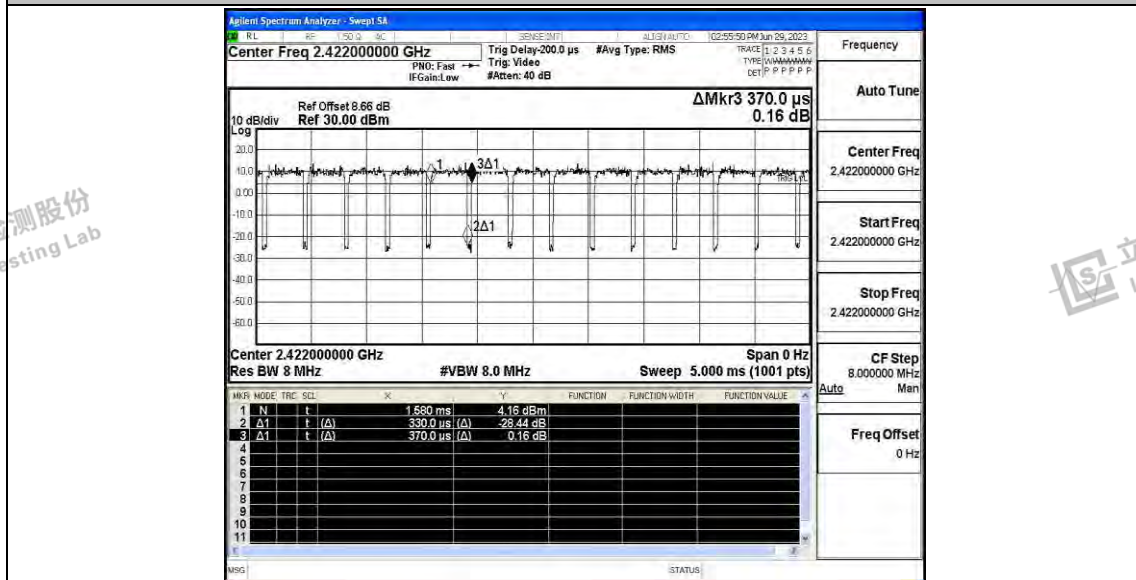
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

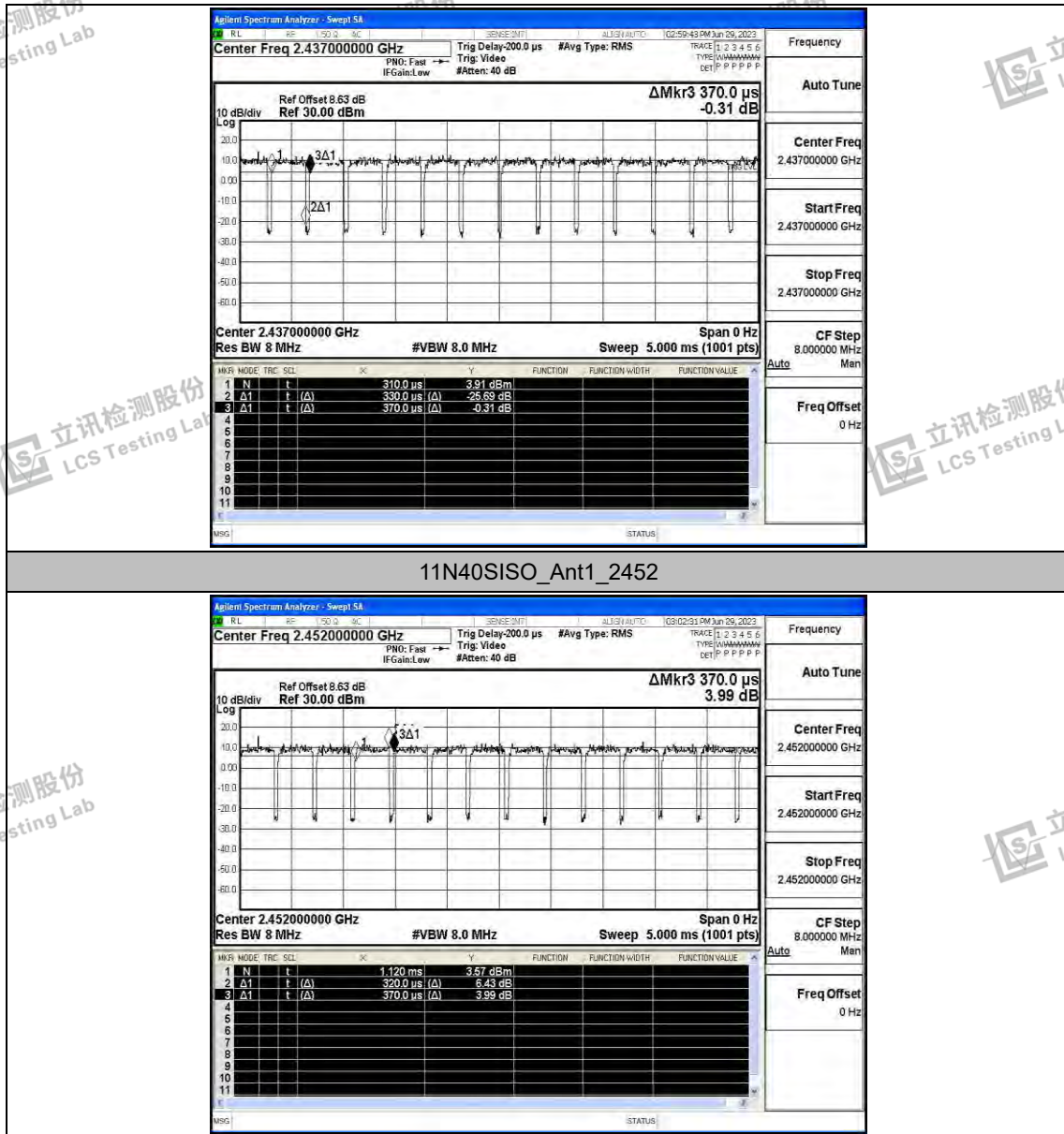


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2389.960	-44.93	≤-41.20	50.27	≤54	PASS
				AV	2390.000	-44.93	≤-41.20	50.27	≤54	PASS
				Peak	2310.000	-42.23	≤-21.20	52.97	≤74	PASS
				Peak	2375.140	-36.66	≤-21.20	58.54	≤74	PASS
				Peak	2390.000	-38.13	≤-21.20	57.07	≤74	PASS
		High	2462	AV	2483.500	-45.55	≤-41.20	49.65	≤54	PASS
				AV	2487.520	-45.22	≤-41.20	49.98	≤54	PASS
				AV	2500.000	-47.06	≤-41.20	48.14	≤54	PASS
				Peak	2483.500	-39.89	≤-21.20	55.31	≤74	PASS
				Peak	2487.960	-38.16	≤-21.20	57.04	≤74	PASS
				Peak	2500.000	-41.01	≤-21.20	54.19	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-47.75	≤-41.20	47.45	≤54	PASS
				AV	2383.590	-47.17	≤-41.20	48.03	≤54	PASS
				AV	2390.000	-47.41	≤-41.20	47.79	≤54	PASS
				Peak	2310.000	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	2361.620	-37.29	≤-21.20	57.91	≤74	PASS
				Peak	2390.000	-42.59	≤-21.20	52.61	≤74	PASS
		High	2462	AV	2483.500	-42.54	≤-41.20	52.66	≤54	PASS
				AV	2483.560	-42.16	≤-41.20	53.04	≤54	PASS
				AV	2500.000	-46.71	≤-41.20	48.49	≤54	PASS
				Peak	2483.500	-35.77	≤-21.20	59.43	≤74	PASS
				Peak	2485.100	-33.14	≤-21.20	62.06	≤74	PASS
				Peak	2500.000	-42.11	≤-21.20	53.09	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-51.59	≤-41.20	43.61	≤54	PASS
				AV	2389.830	-42.37	≤-41.20	52.83	≤54	PASS
				AV	2390.000	-42.69	≤-41.20	52.51	≤54	PASS
				Peak	2310.000	-45.9	≤-21.20	49.30	≤74	PASS
				Peak	2386.840	-30.97	≤-21.20	64.23	≤74	PASS
				Peak	2390.000	-36.96	≤-21.20	58.24	≤74	PASS
		High	2462	AV	2483.500	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2483.560	-46.41	≤-41.20	48.79	≤54	PASS
				AV	2500.000	-50.25	≤-41.20	44.95	≤54	PASS
				Peak	2483.500	-39.13	≤-21.20	56.07	≤74	PASS
				Peak	2484.550	-37.11	≤-21.20	58.09	≤74	PASS



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11N40SIS O	Ant1	Low	2422	Peak	2500.000	-45.62	≤ -21.20	49.58	≤ 74	PASS
				AV	2310.000	-57.22	≤ -41.20	37.98	≤ 54	PASS
				AV	2389.570	-42.85	≤ -41.20	52.35	≤ 54	PASS
				AV	2390.000	-42.96	≤ -41.20	52.24	≤ 54	PASS
				Peak	2310.000	-51.82	≤ -21.20	43.38	≤ 74	PASS
				Peak	2382.290	-33.52	≤ -21.20	61.68	≤ 74	PASS
				Peak	2390.000	-37.55	≤ -21.20	57.65	≤ 74	PASS
		High	2452	AV	2483.500	-43.22	≤ -41.20	51.98	≤ 54	PASS
				AV	2483.890	-42.21	≤ -41.20	52.99	≤ 54	PASS
				AV	2500.000	-48.09	≤ -41.20	47.11	≤ 54	PASS
				Peak	2483.500	-39.01	≤ -21.20	56.19	≤ 74	PASS
				Peak	2484.220	-32.07	≤ -21.20	63.13	≤ 74	PASS
				Peak	2500.000	-42.66	≤ -21.20	52.54	≤ 74	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.



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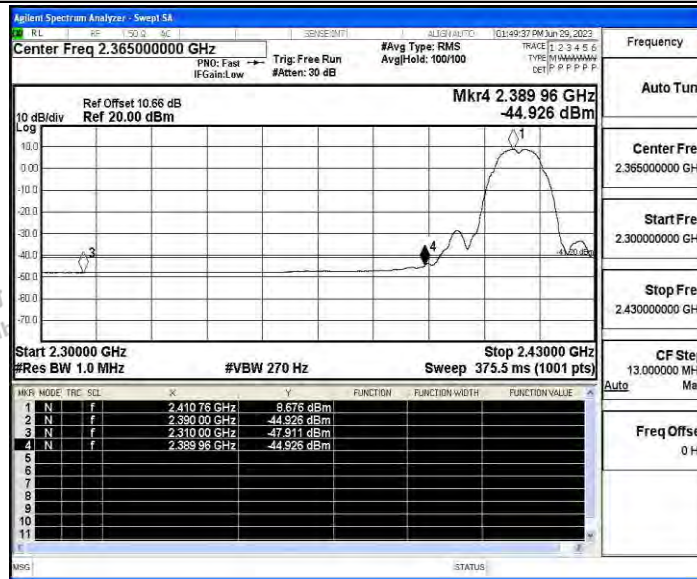
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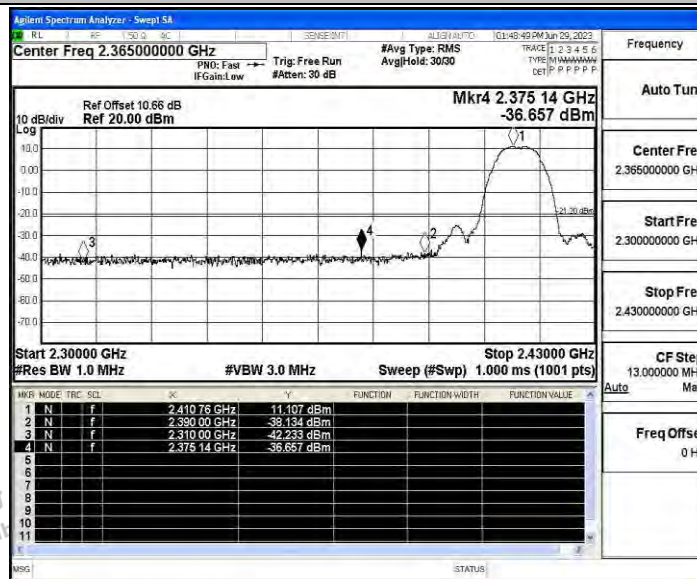


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

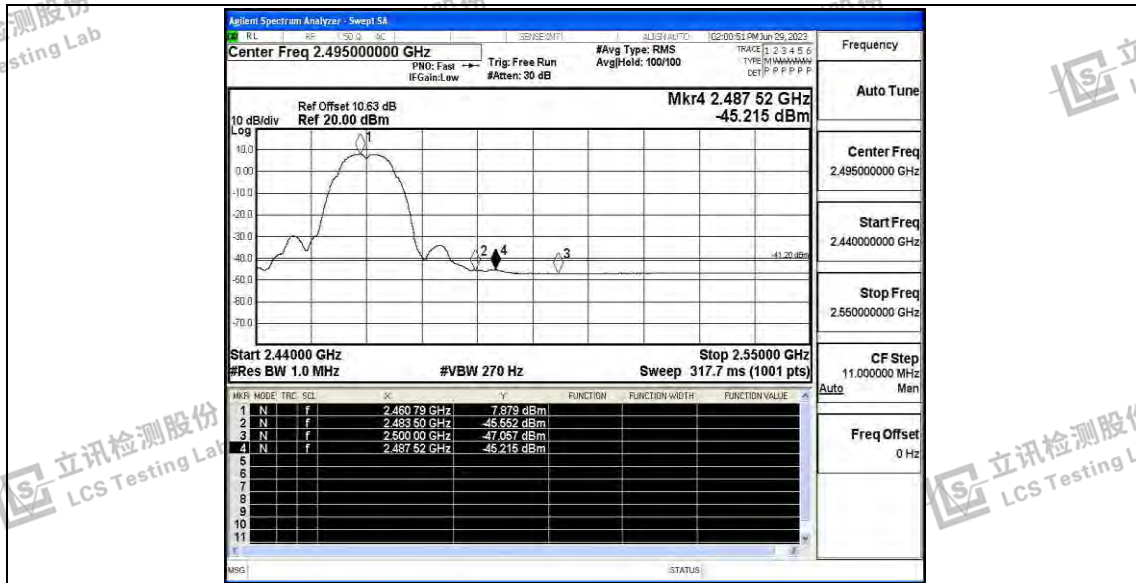


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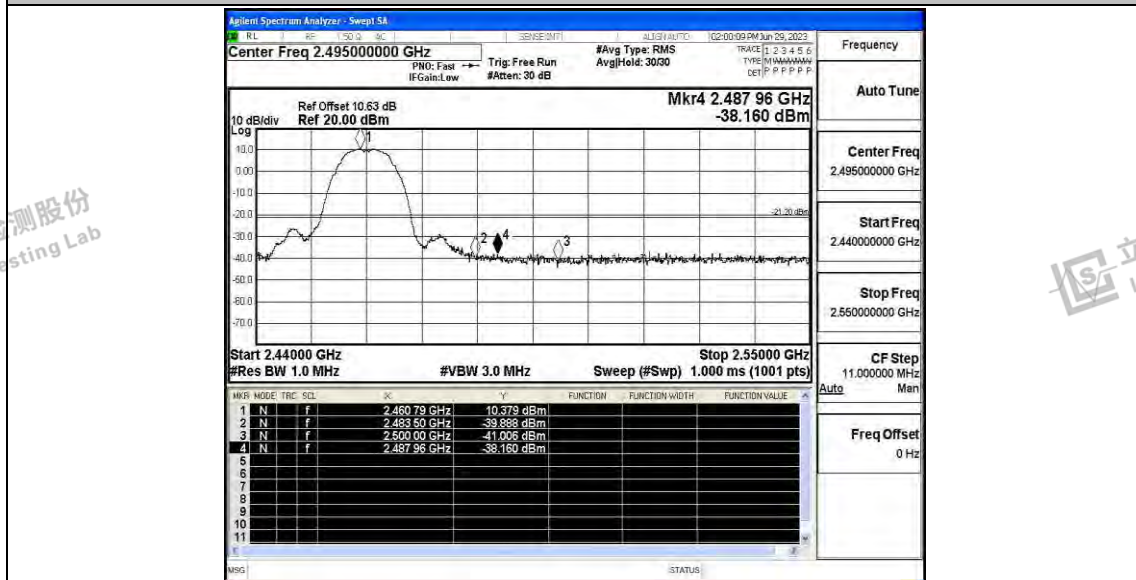
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

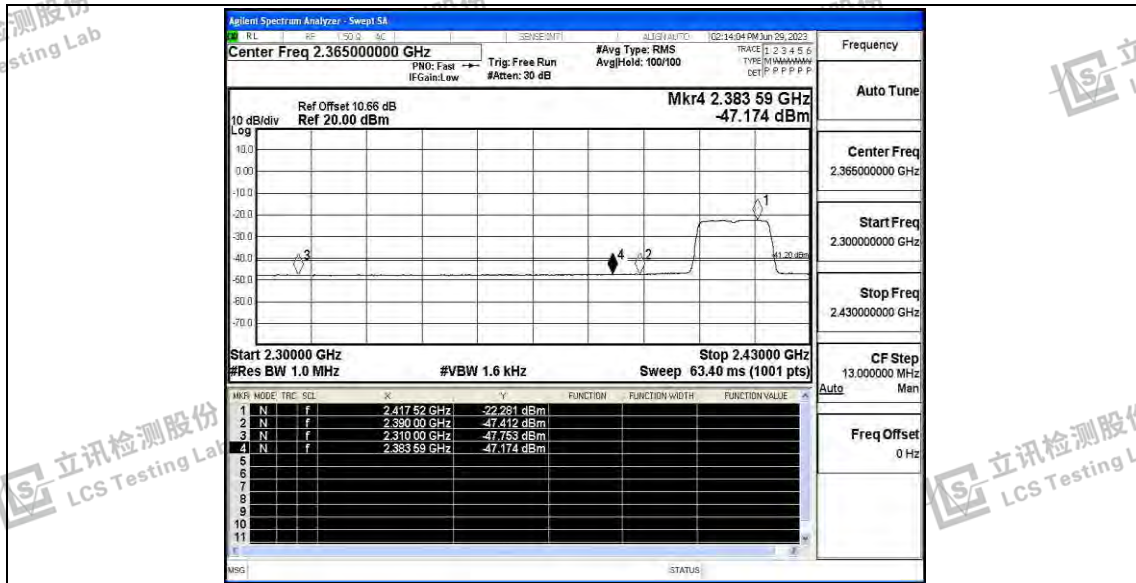


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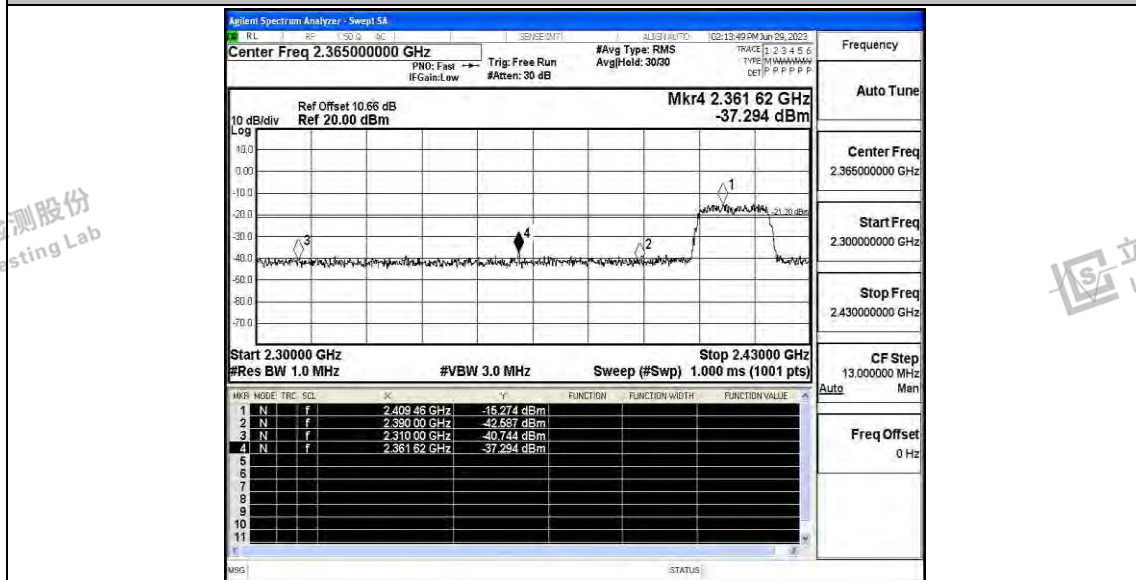
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

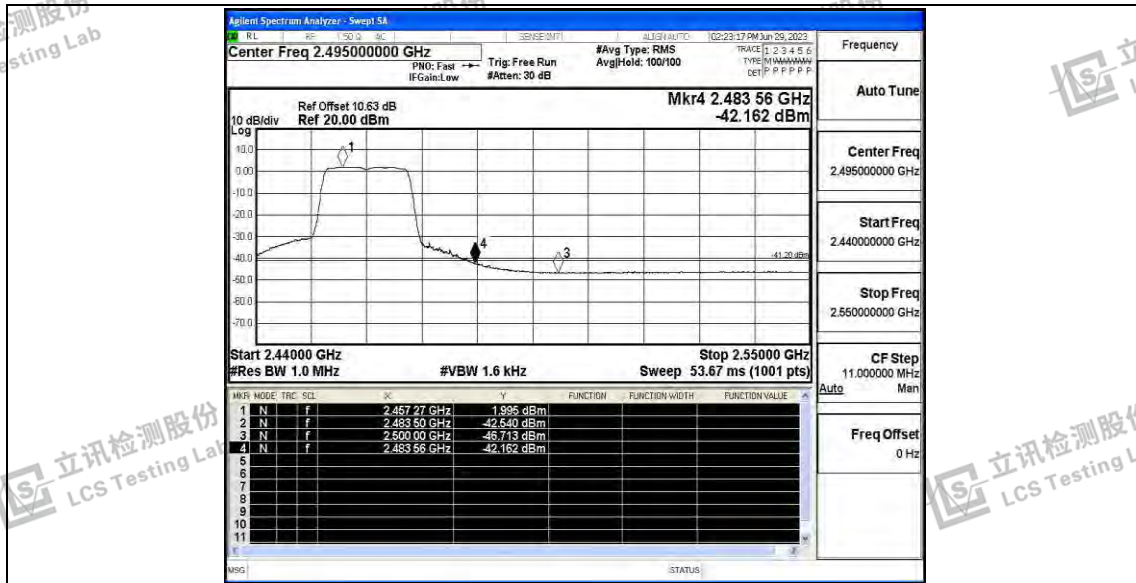


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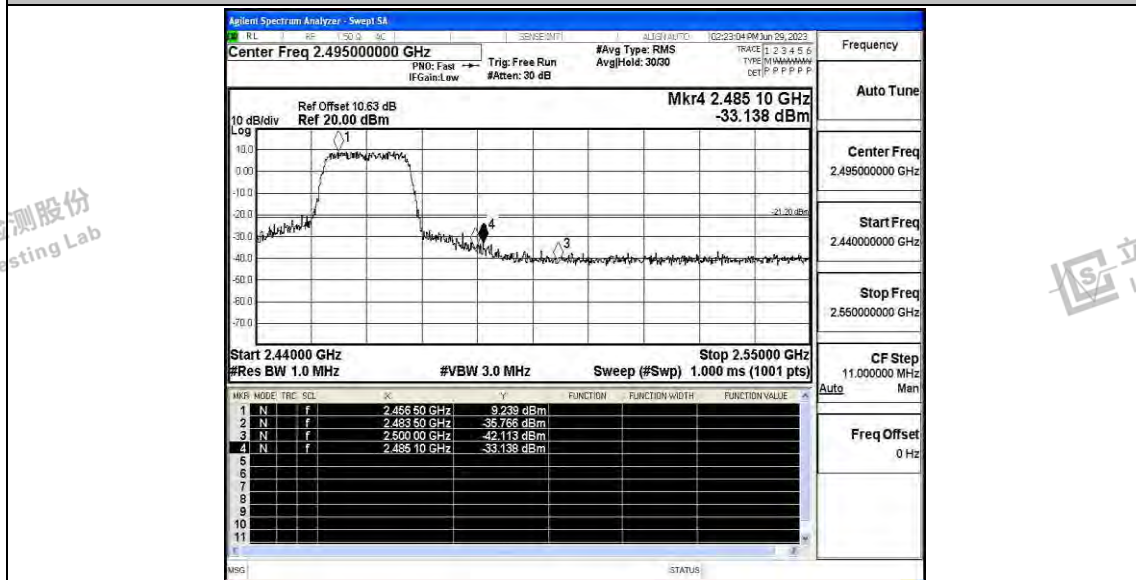
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

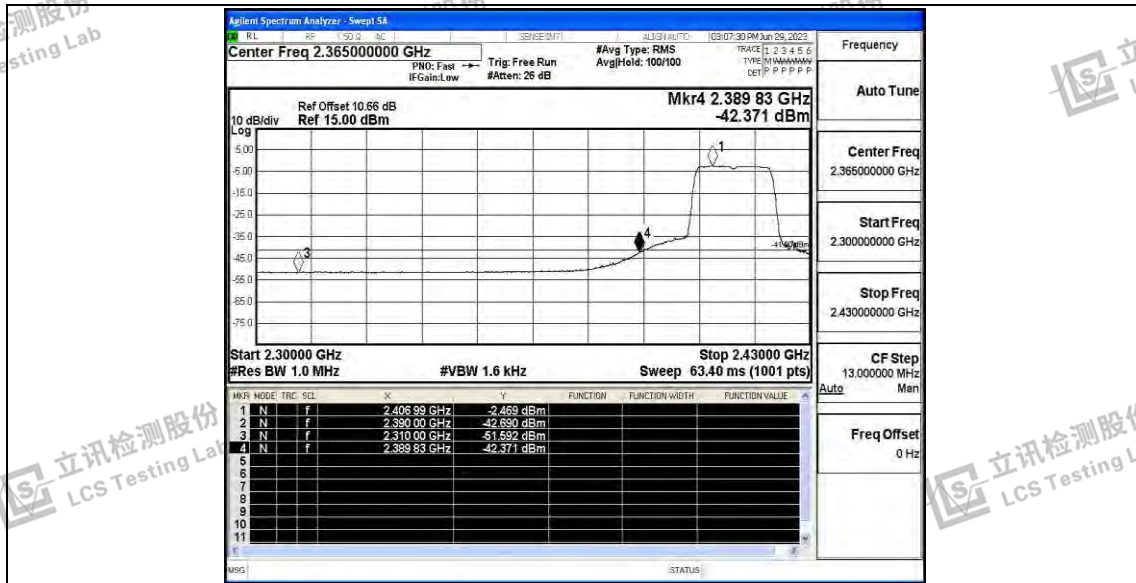


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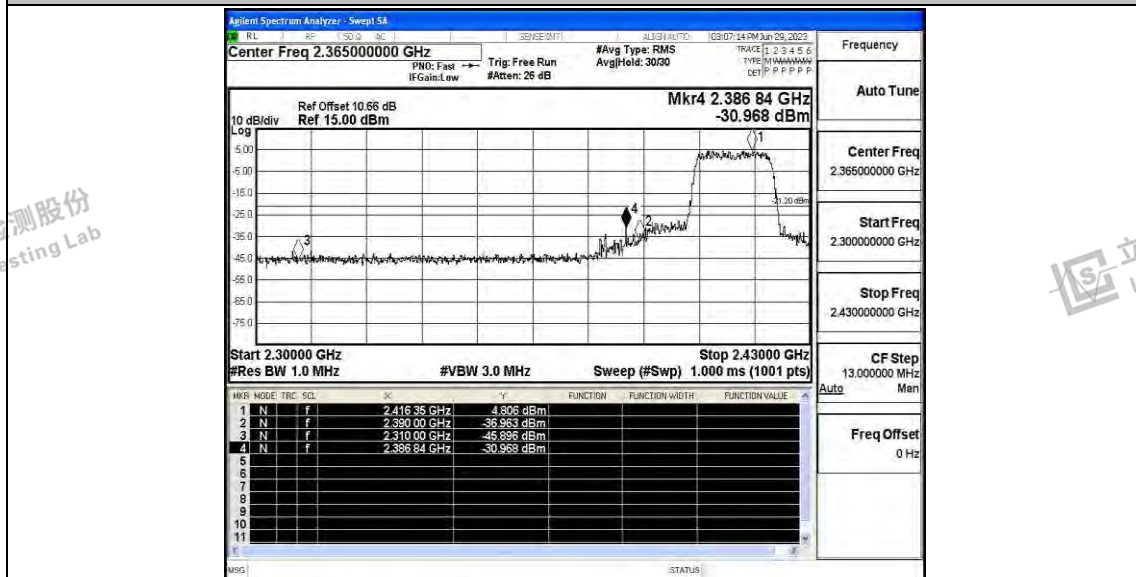
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

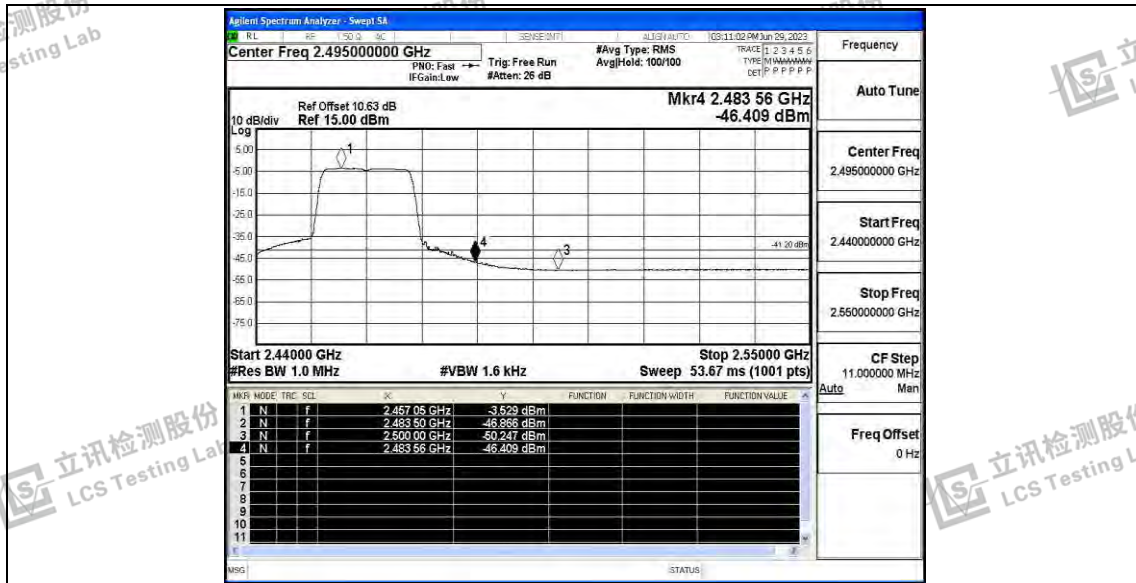


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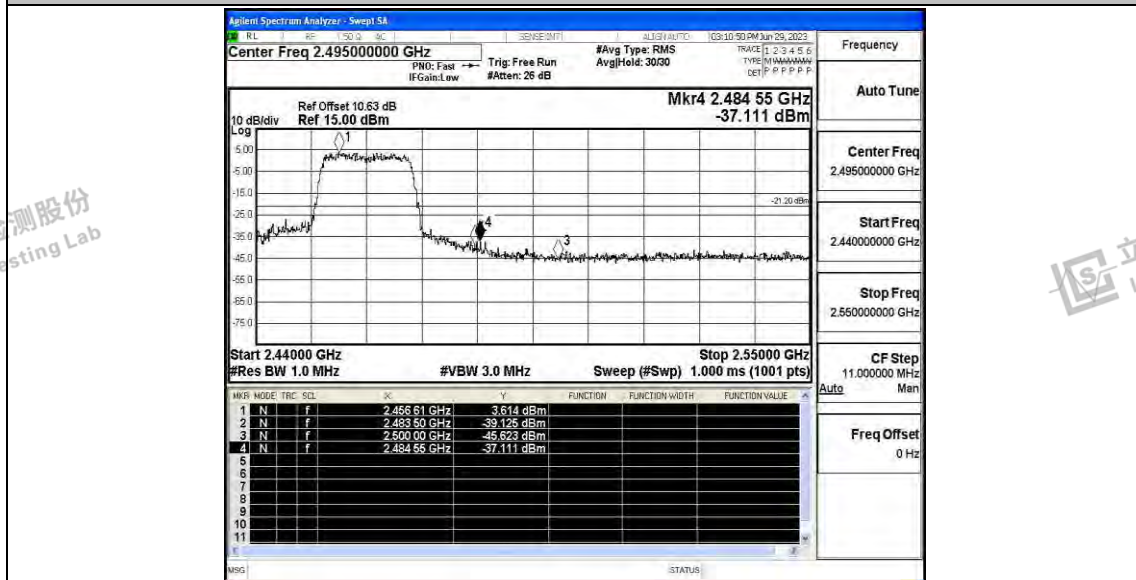
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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

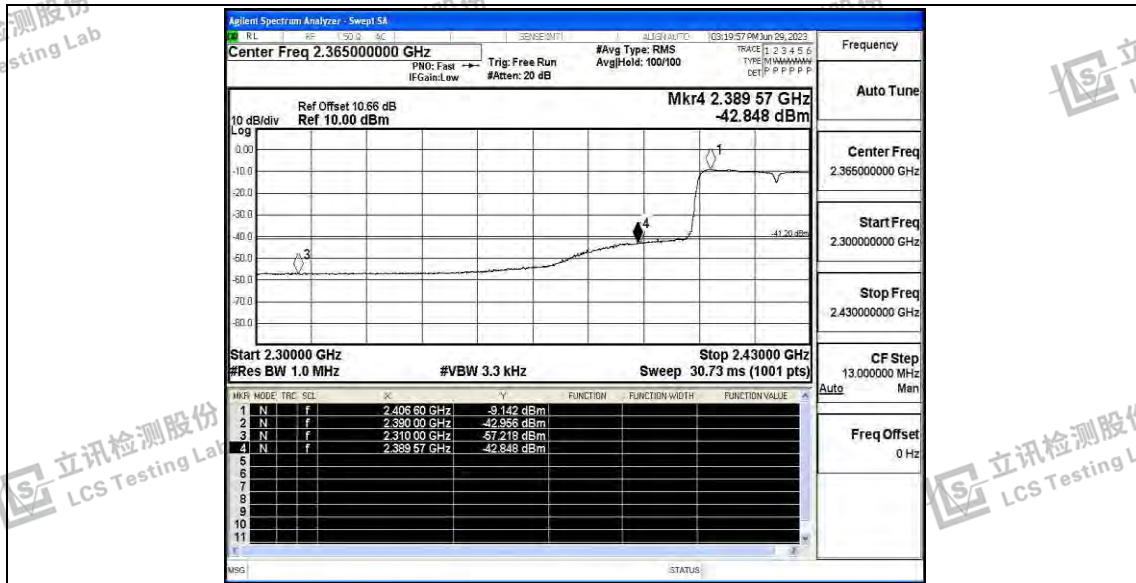


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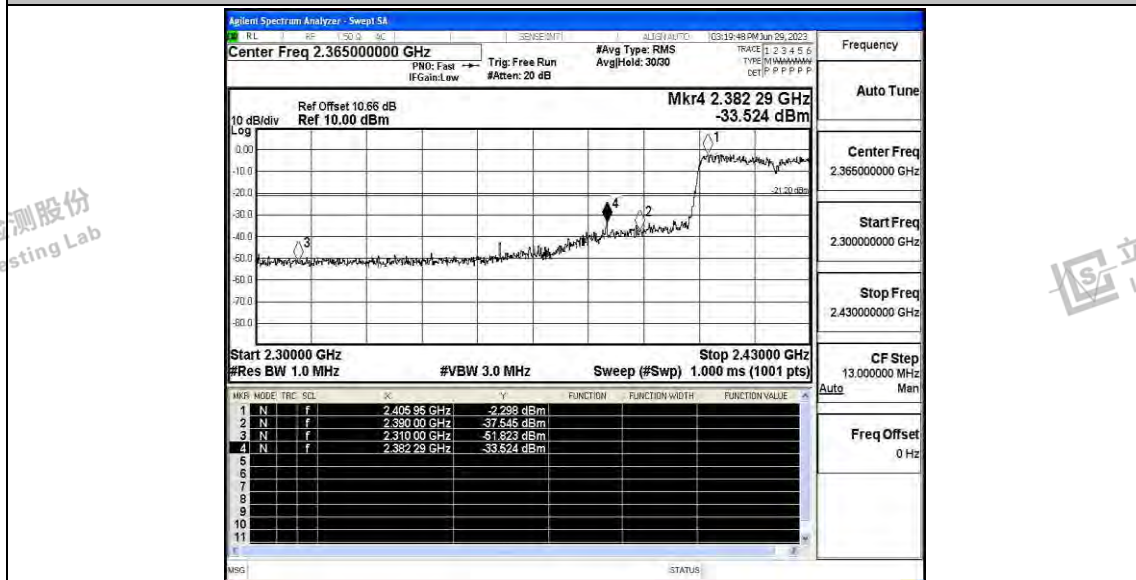
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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

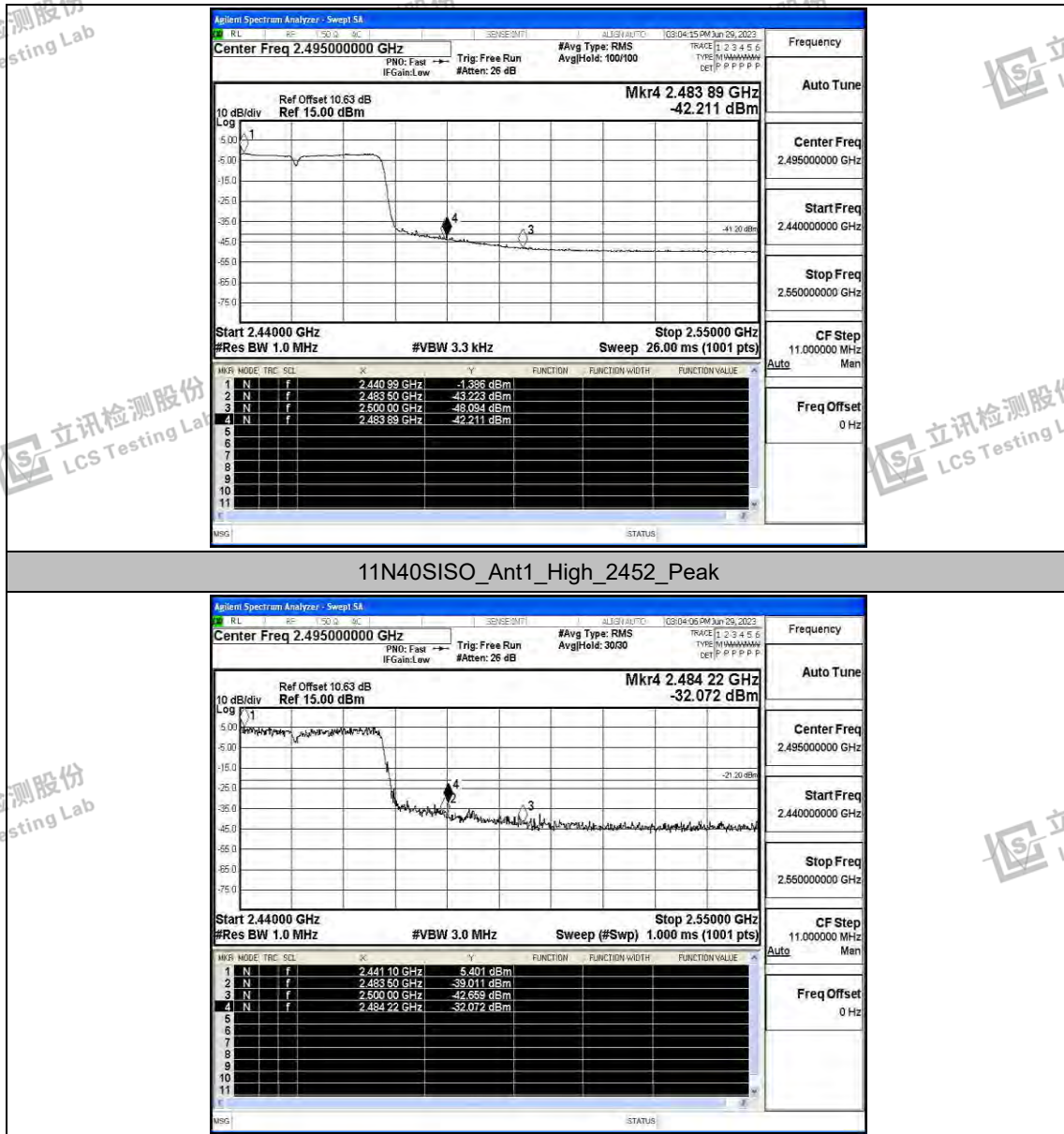


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