



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Digital photo frame

Test Model: X15

Environmental Conditions

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



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.480	2417.000	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.520	2457.480	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



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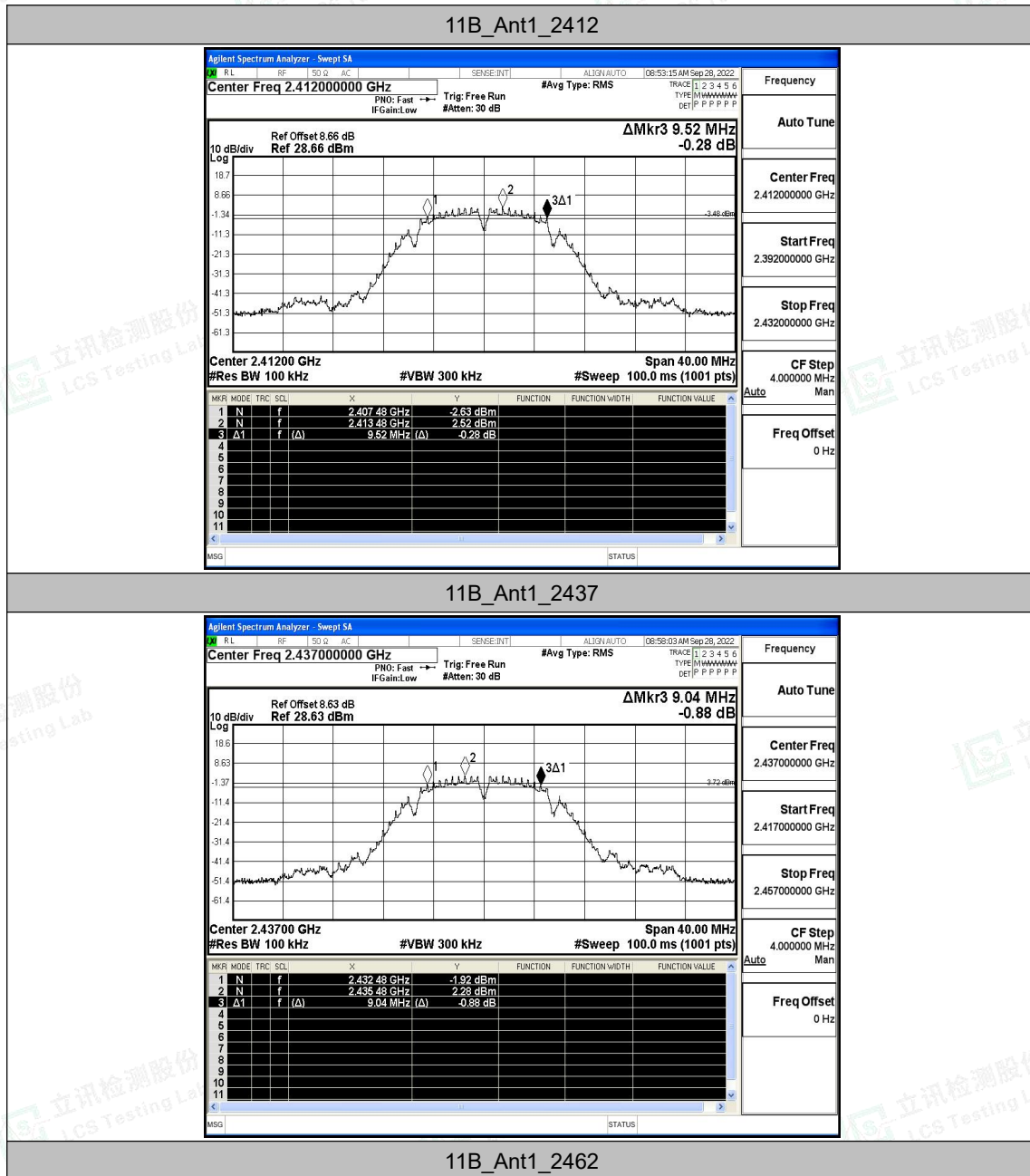
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Test Graphs

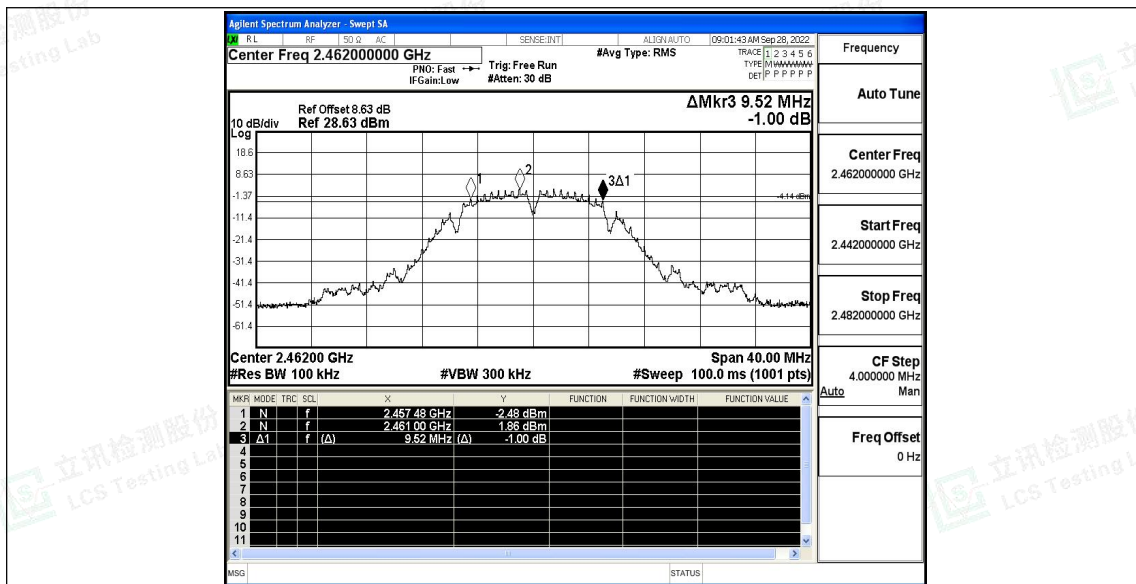


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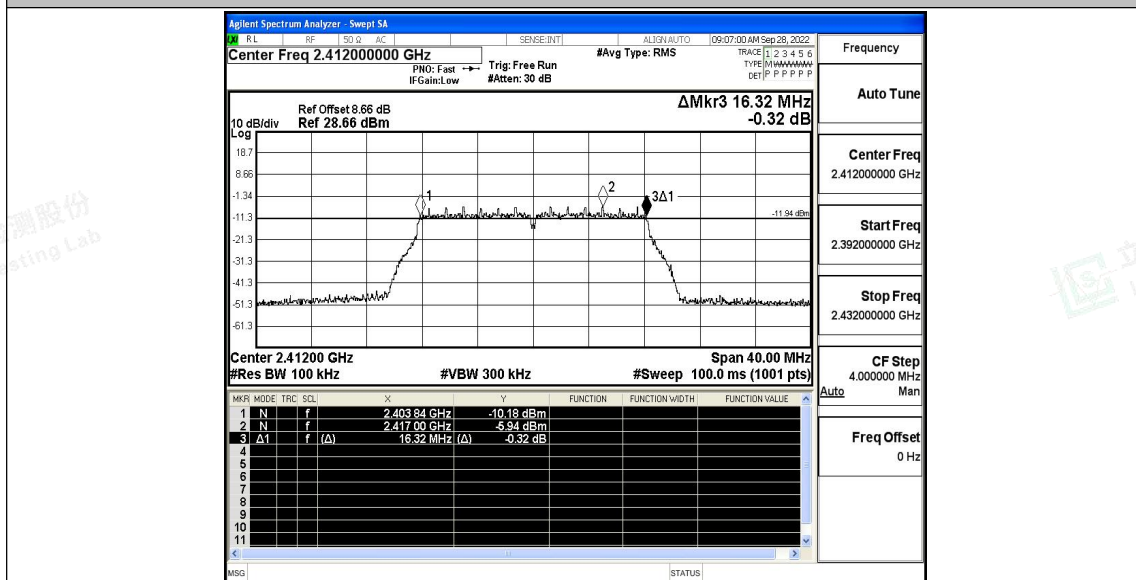
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11G_Ant1_2412



11G_Ant1_2437

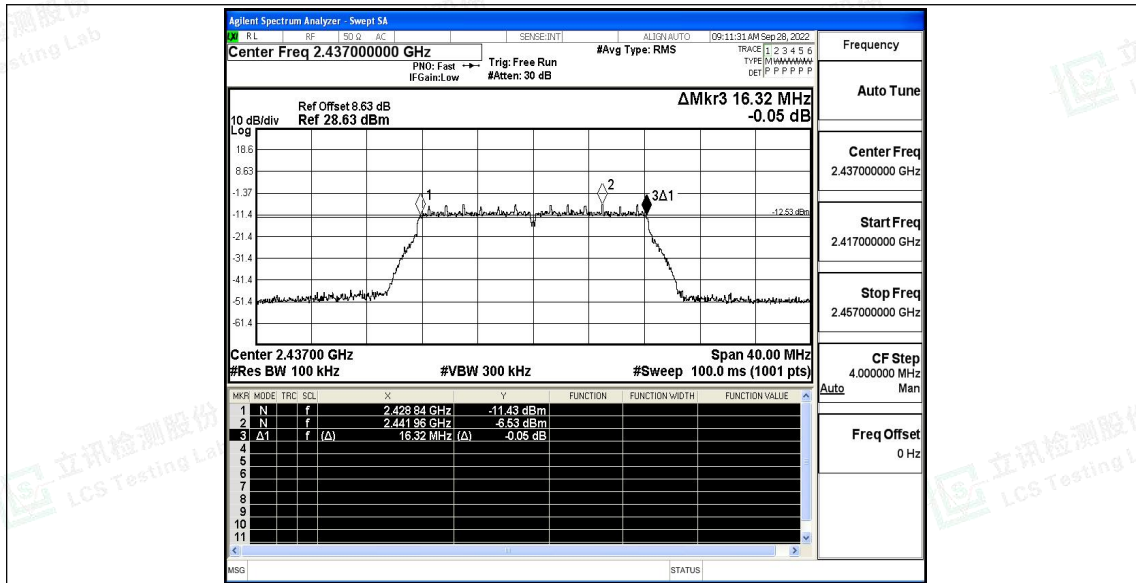


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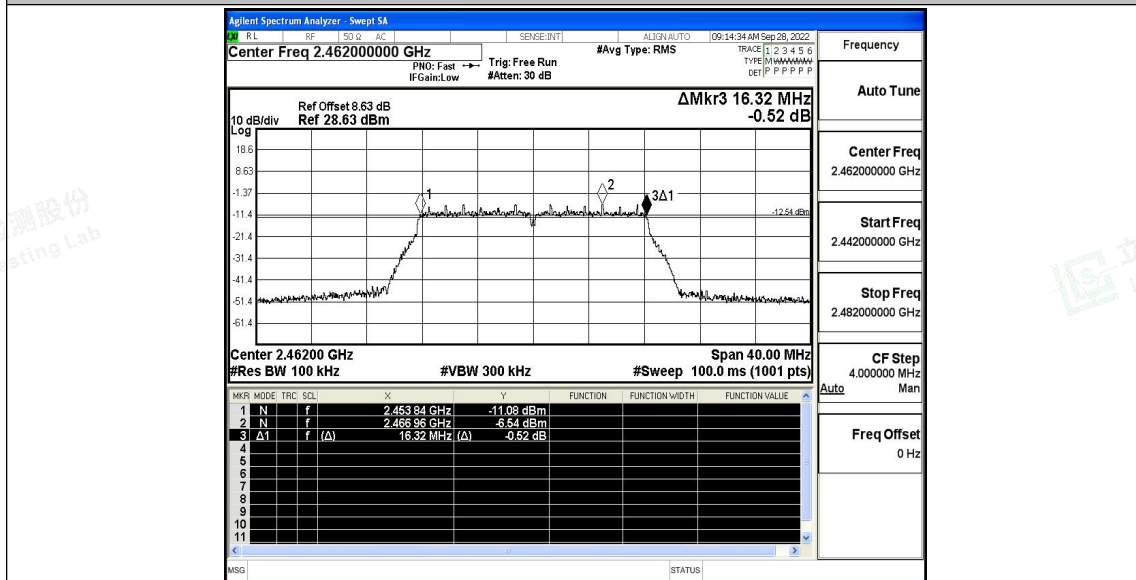
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11G_Ant1_2462



11N20SISO_Ant1_2412

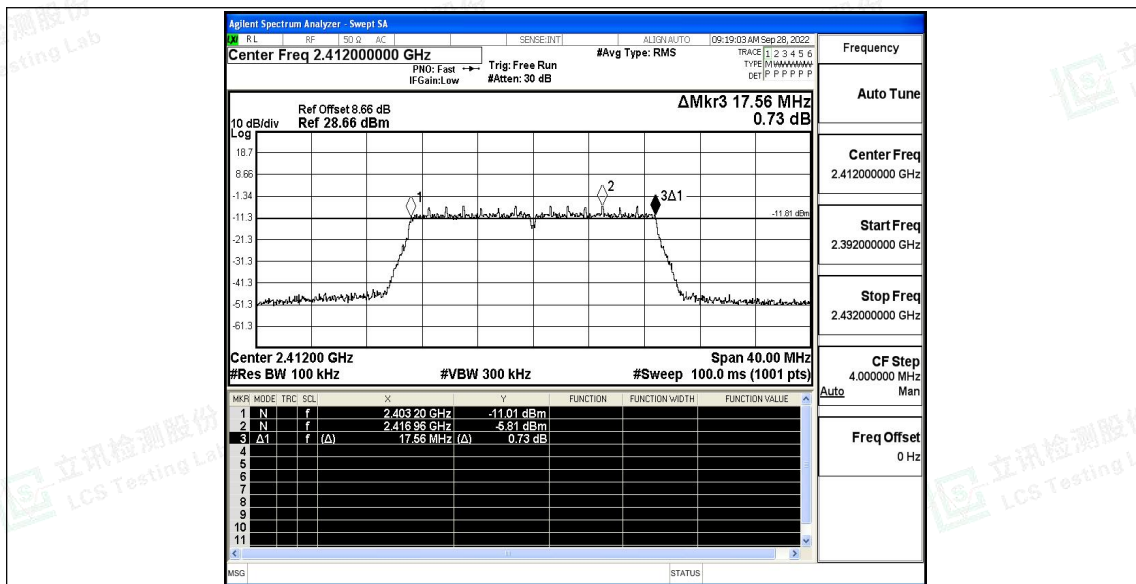


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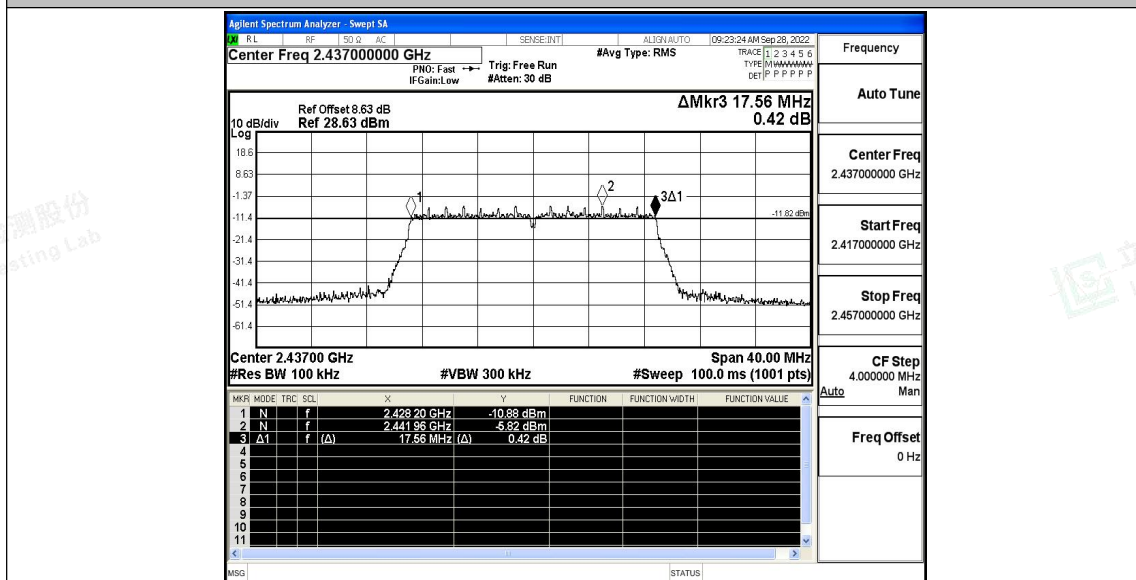
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

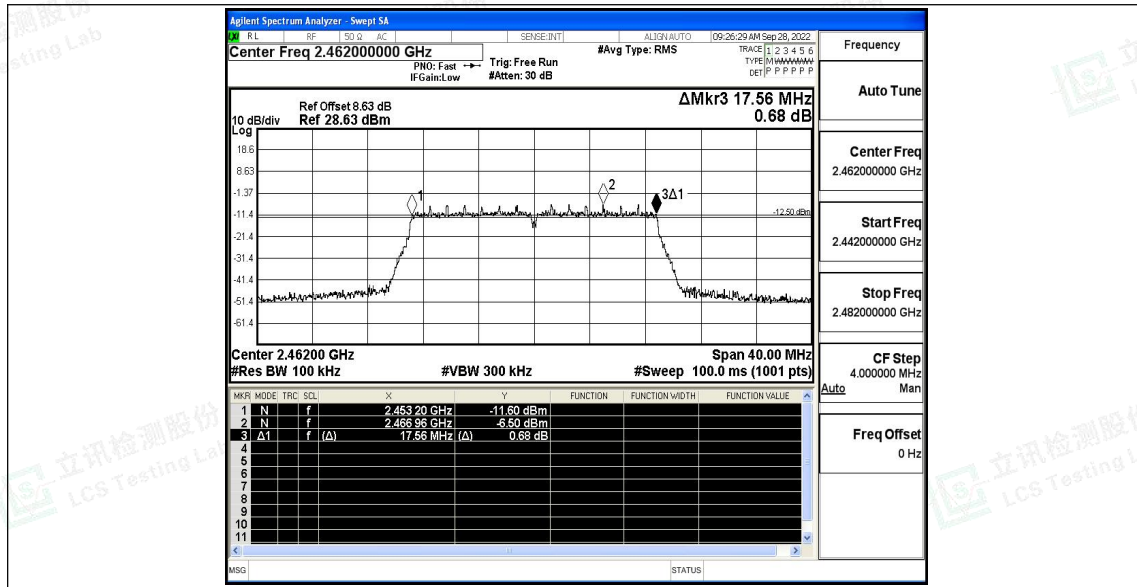


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.63	≤30.00	PASS
		2437	14.29	≤30.00	PASS
		2462	14.08	≤30.00	PASS
11G	Ant1	2412	13.82	≤30.00	PASS
		2437	13.04	≤30.00	PASS
		2462	13.09	≤30.00	PASS
11N20SISO	Ant1	2412	13.79	≤30.00	PASS
		2437	13.67	≤30.00	PASS
		2462	13.36	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-11.46	≤8.00	PASS
		2437	-11.41	≤8.00	PASS
		2462	-12.33	≤8.00	PASS
11G	Ant1	2412	-19.22	≤8.00	PASS
		2437	-20.84	≤8.00	PASS
		2462	-20.04	≤8.00	PASS
11N20SISO	Ant1	2412	-20.08	≤8.00	PASS
		2437	-20.43	≤8.00	PASS
		2462	-20.23	≤8.00	PASS



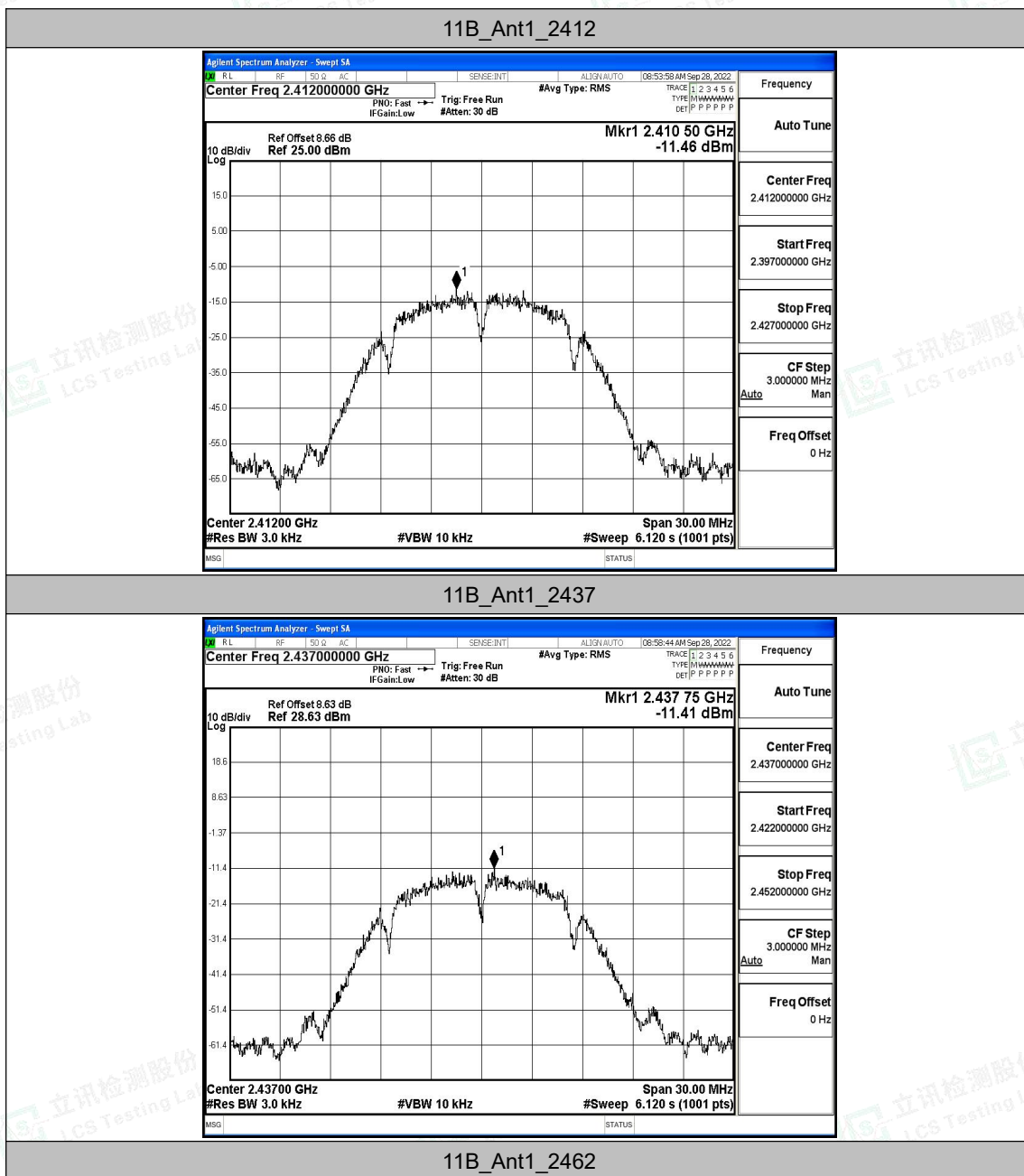
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Test Graphs

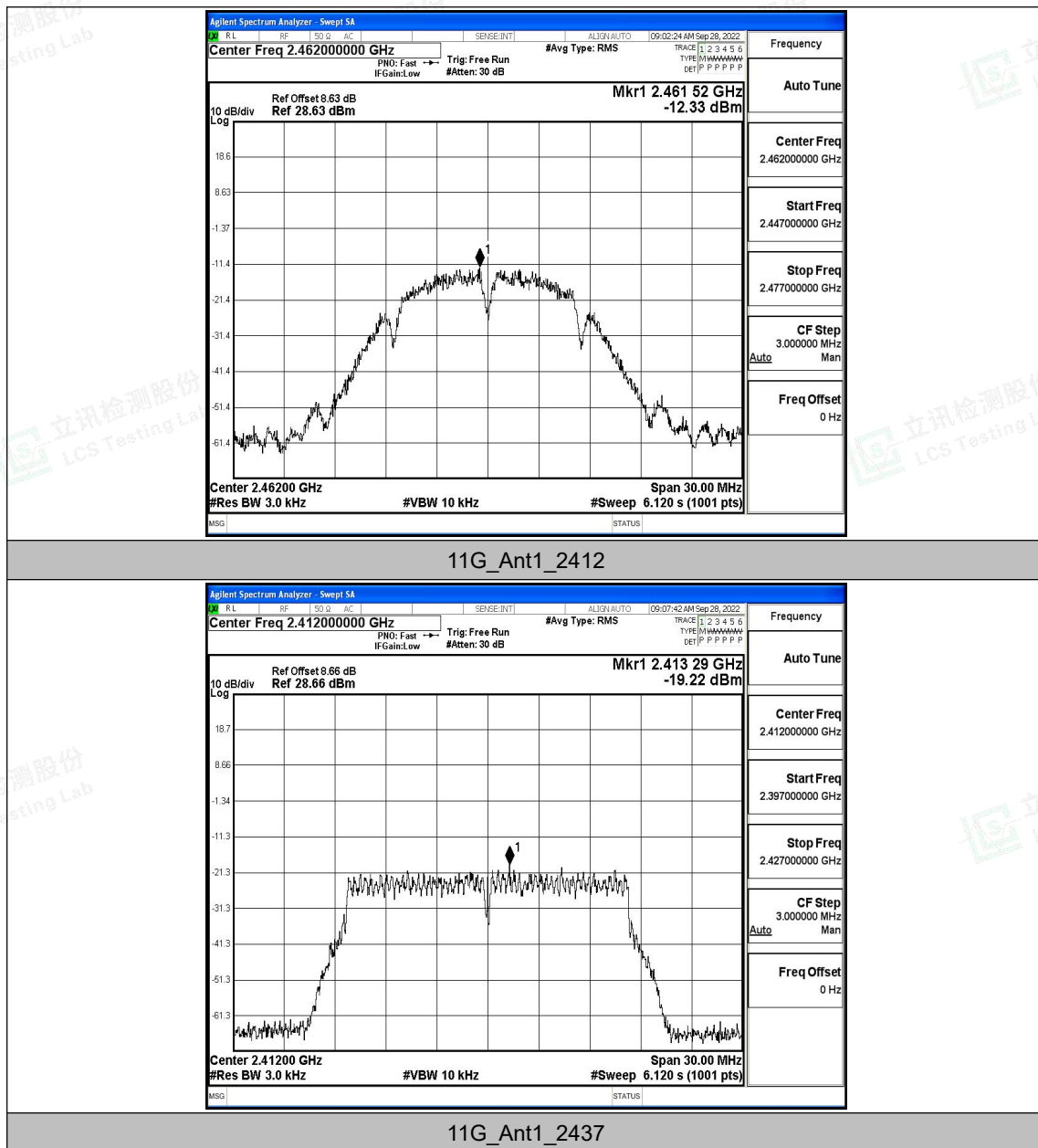


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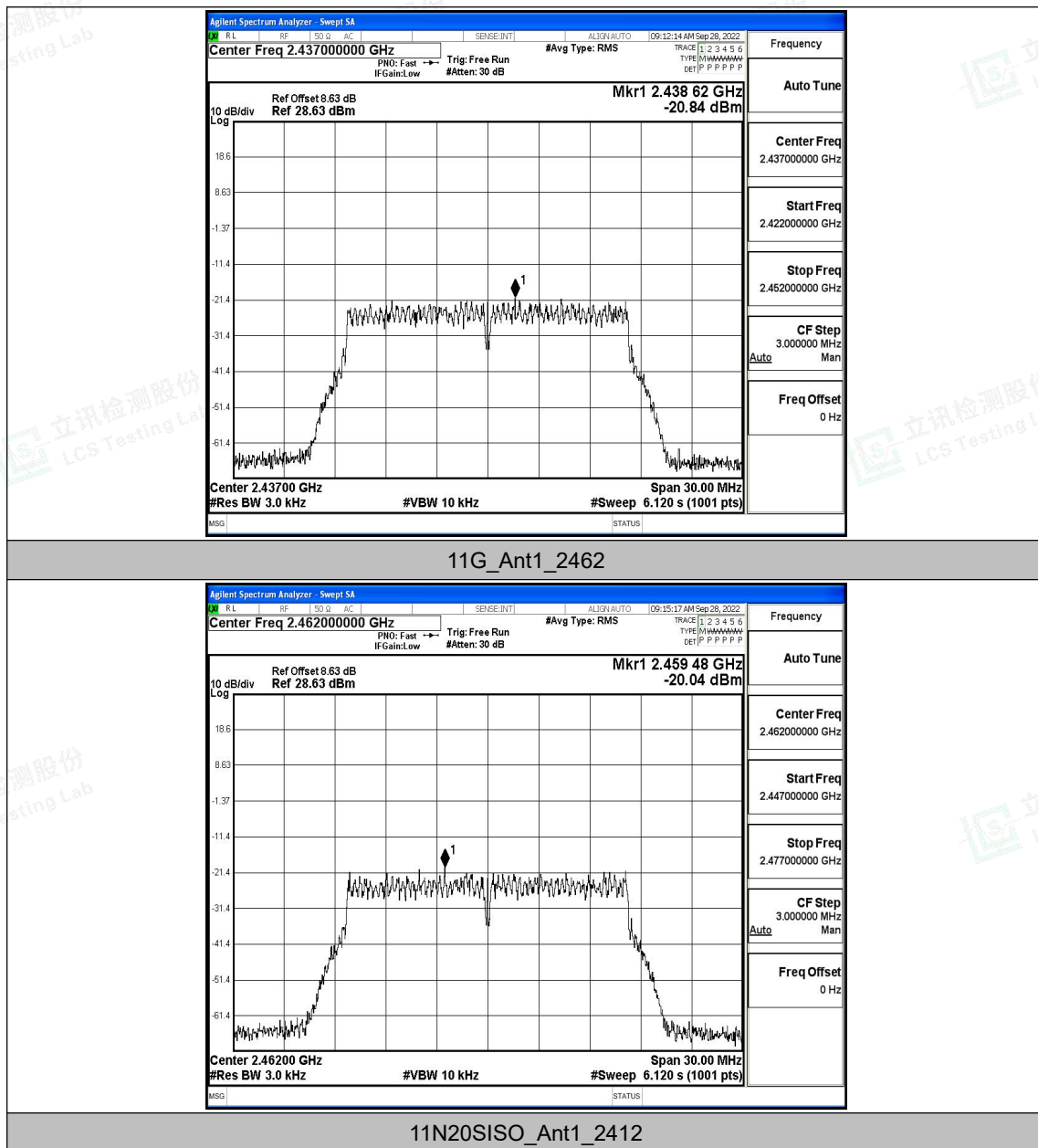


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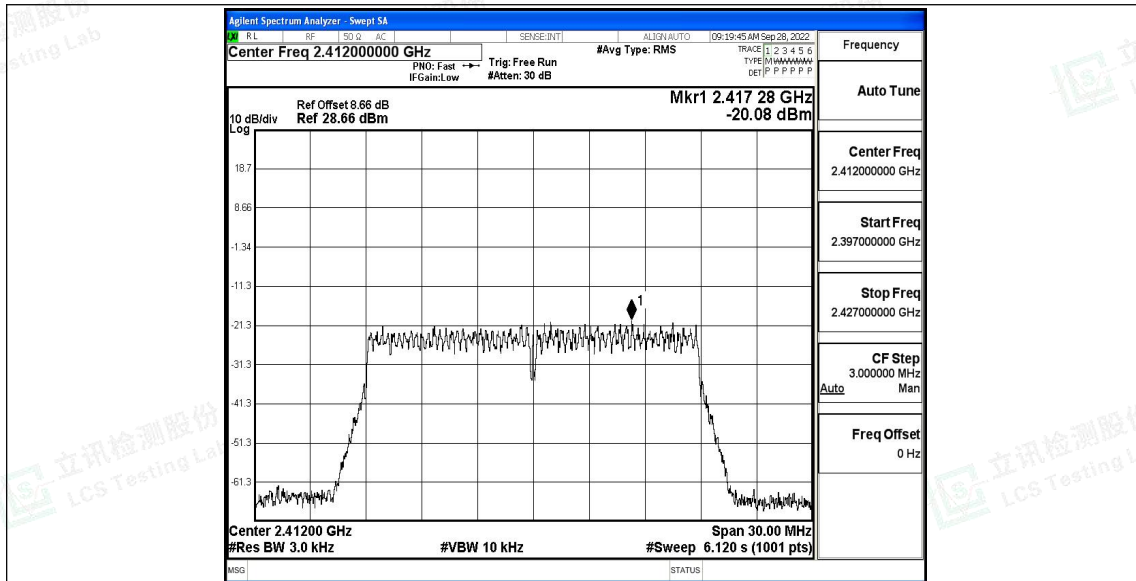


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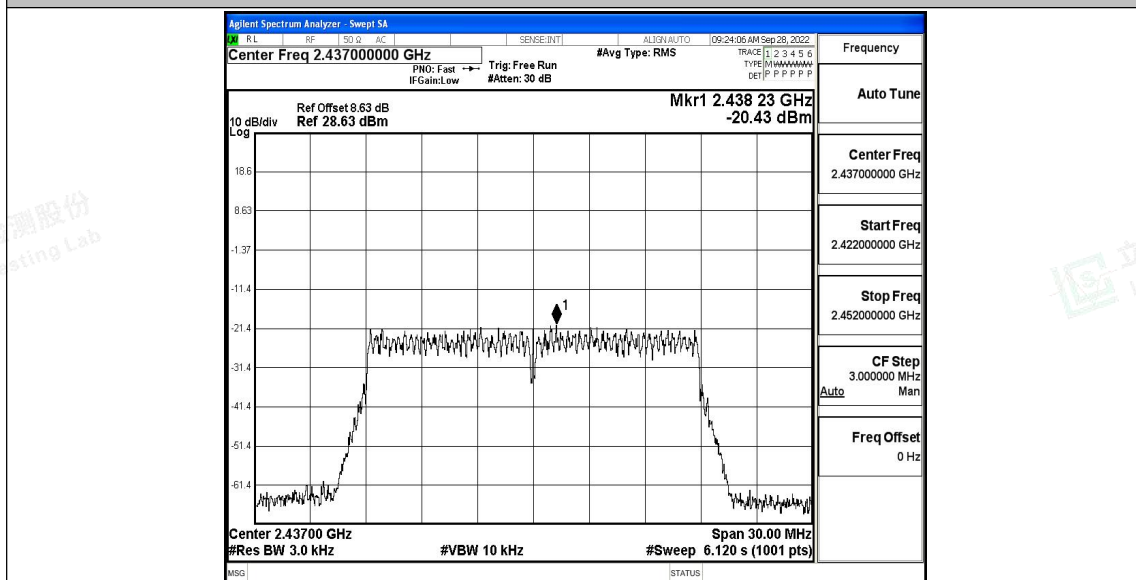
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

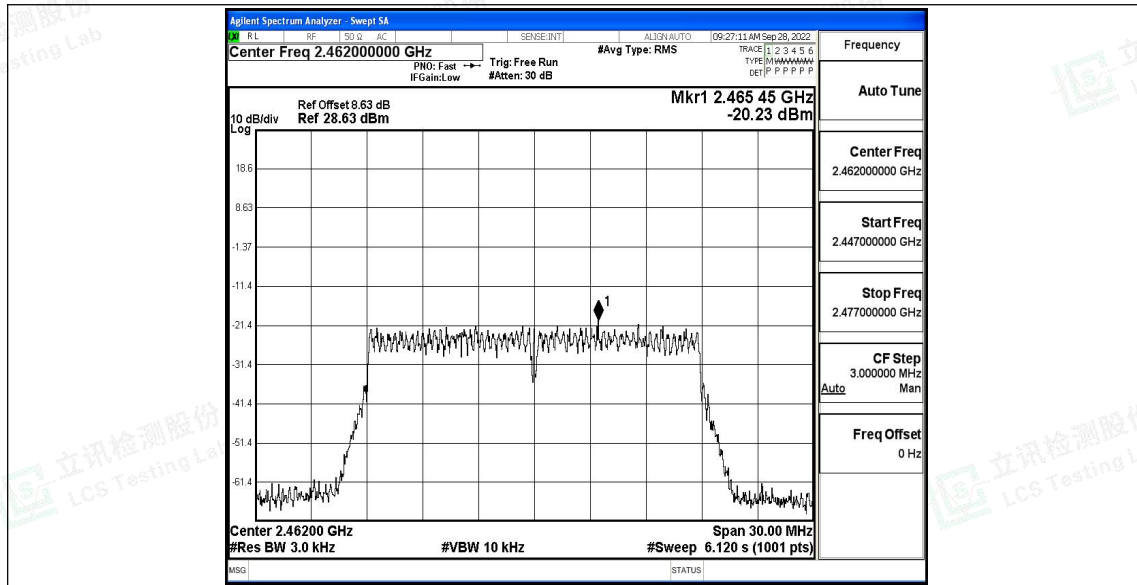


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.85	-44.21	≤ -17.15	PASS
		High	2462	1.61	-48.51	≤ -18.39	PASS
11G	Ant1	Low	2412	-5.72	-46.37	≤ -25.72	PASS
		High	2462	-6.15	-47.65	≤ -26.15	PASS
11N20SISO	Ant1	Low	2412	-5.82	-44.55	≤ -25.82	PASS
		High	2462	-6.02	-48.33	≤ -26.02	PASS



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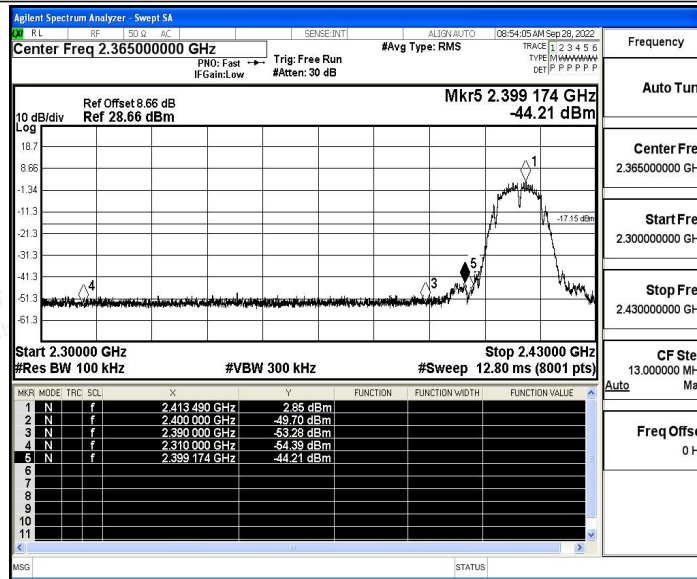
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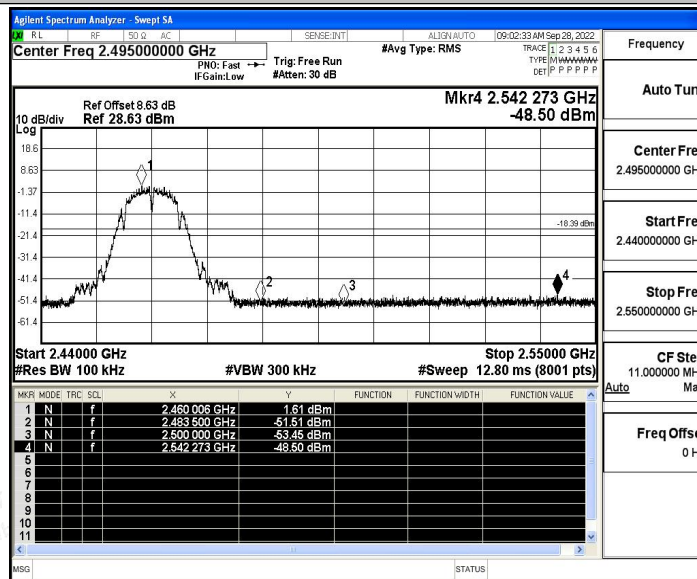


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

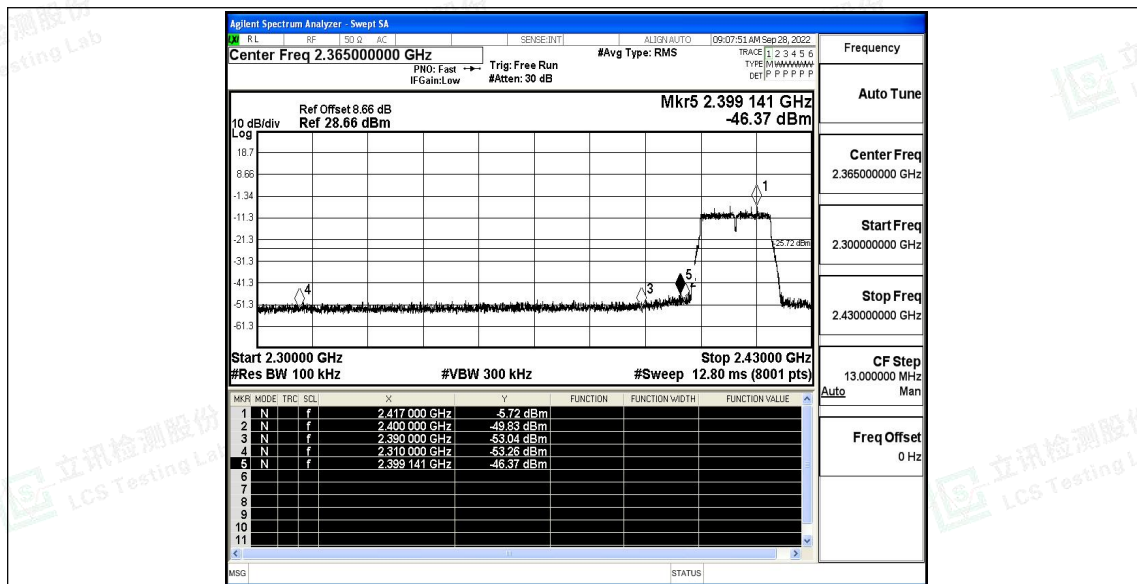


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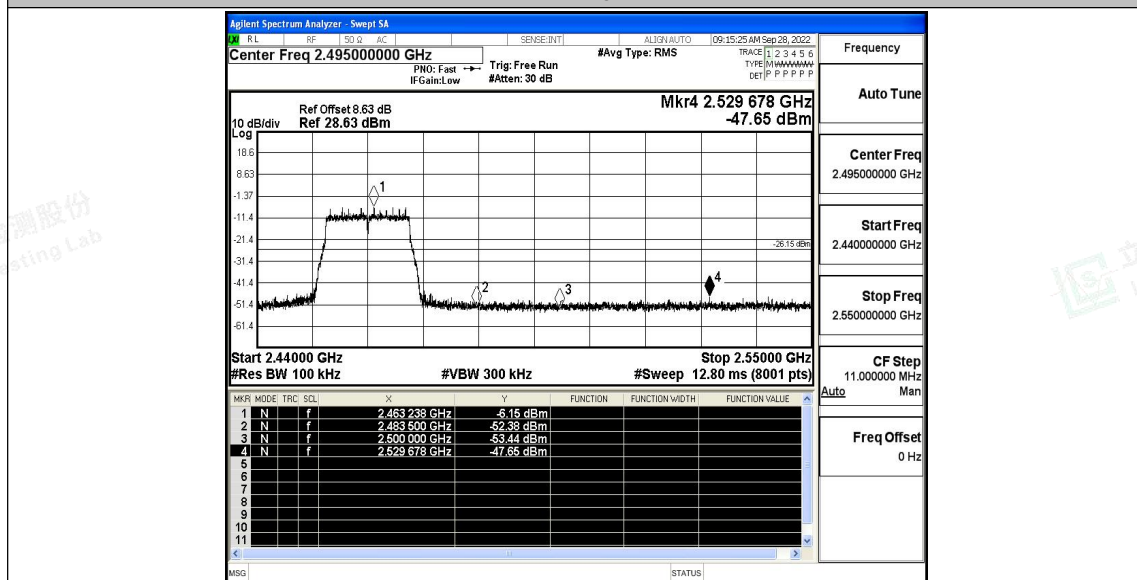
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

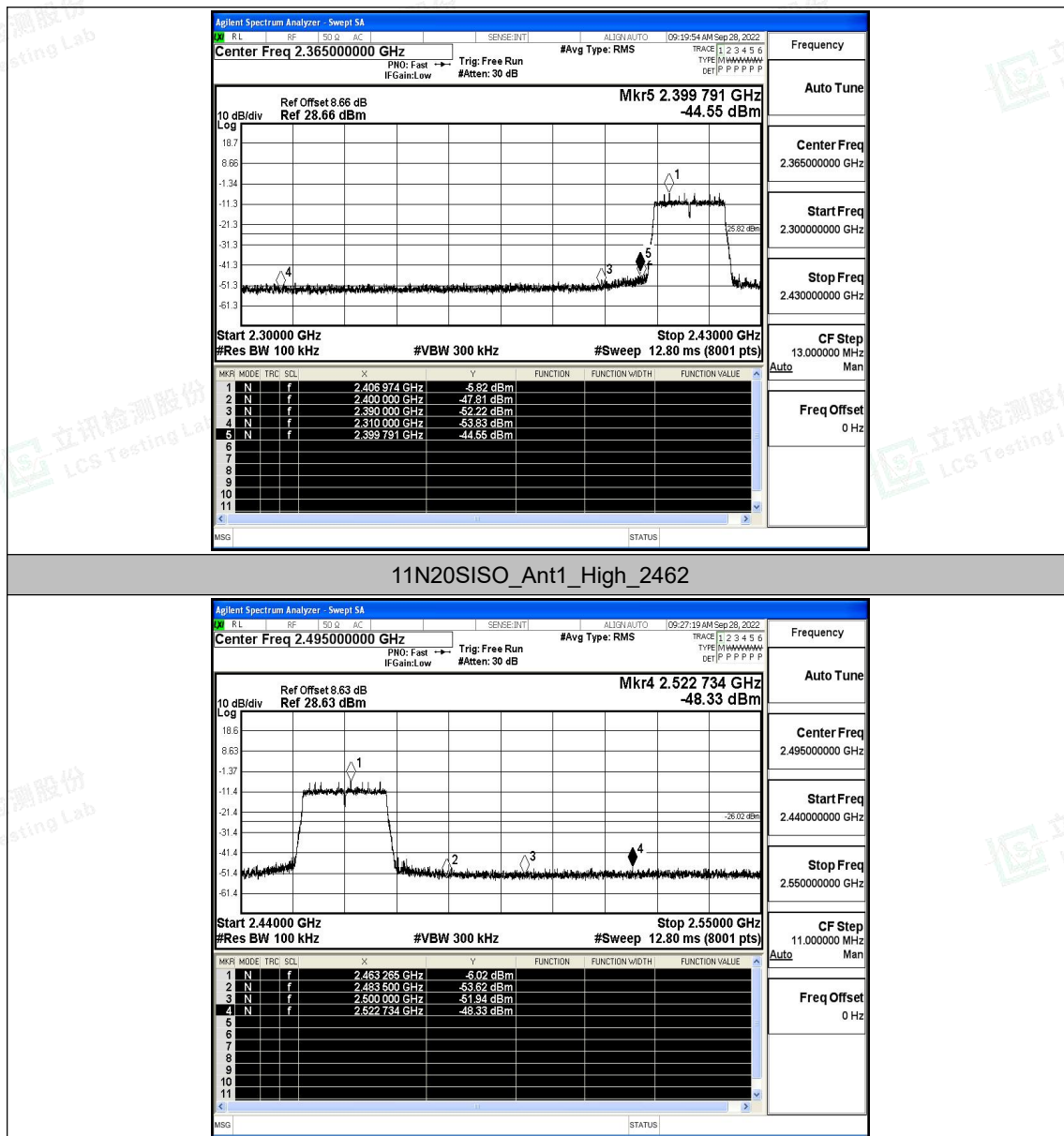


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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.00	2.00	---	PASS
			30~1000	2.00	-60.06	≤-18	PASS
			1000~26500	2.00	-46.16	≤-18	PASS
		2437	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-61.2	≤-18.88	PASS
			1000~26500	1.12	-45.86	≤-18.88	PASS
		2462	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-60.98	≤-17.75	PASS
			1000~26500	2.25	-45.75	≤-17.75	PASS
11G	Ant1	2412	Reference	-7.73	-7.73	---	PASS
			30~1000	-7.73	-48.98	≤-27.73	PASS
			1000~26500	-7.73	-46.65	≤-27.73	PASS
		2437	Reference	-7.67	-7.67	---	PASS
			30~1000	-7.67	-59.73	≤-27.67	PASS
			1000~26500	-7.67	-46.01	≤-27.67	PASS
		2462	Reference	-9.39	-9.39	---	PASS
			30~1000	-9.39	-60.42	≤-29.39	PASS
			1000~26500	-9.39	-45.82	≤-29.39	PASS
11N20SISO	Ant1	2412	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-60.62	≤-25.79	PASS
			1000~26500	-5.79	-46.19	≤-25.79	PASS
		2437	Reference	-6.43	-6.43	---	PASS
			30~1000	-6.43	-55.65	≤-26.43	PASS
			1000~26500	-6.43	-46.1	≤-26.43	PASS
		2462	Reference	-8.07	-8.07	---	PASS
			30~1000	-8.07	-60.51	≤-28.07	PASS
			1000~26500	-8.07	-45.76	≤-28.07	PASS



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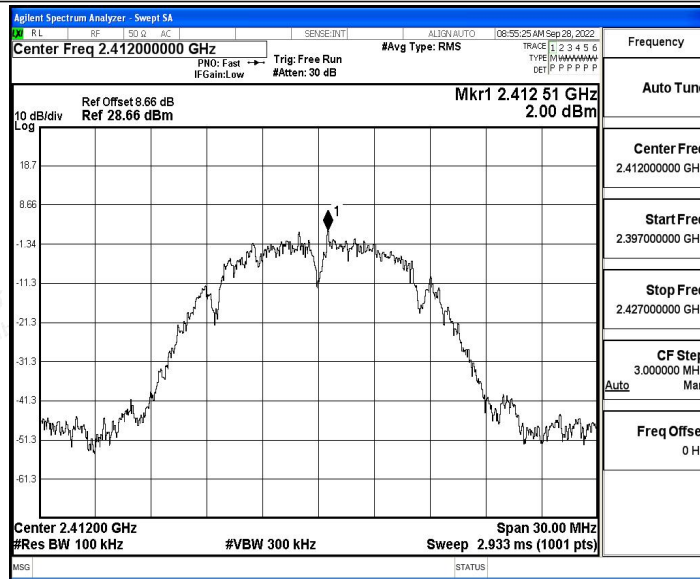
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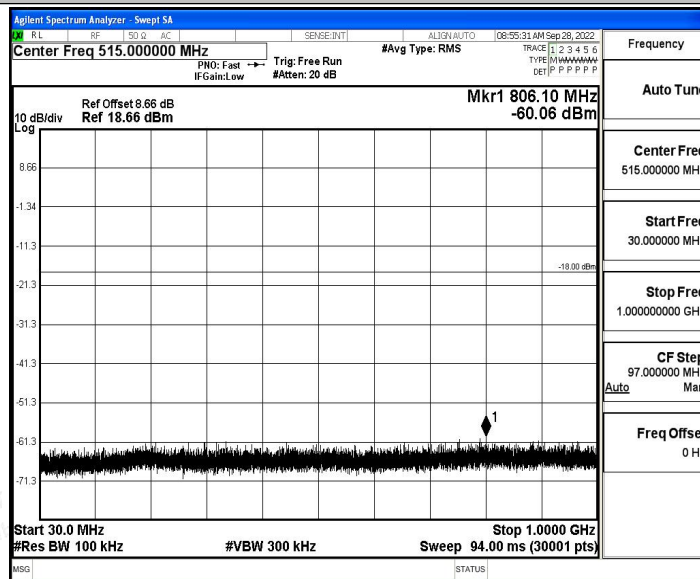


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

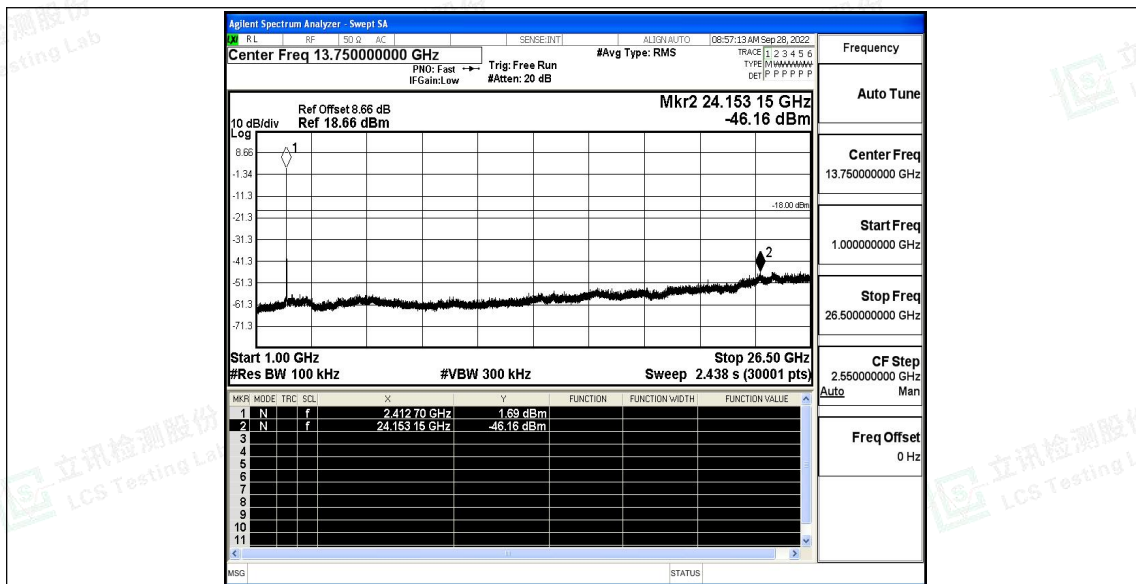


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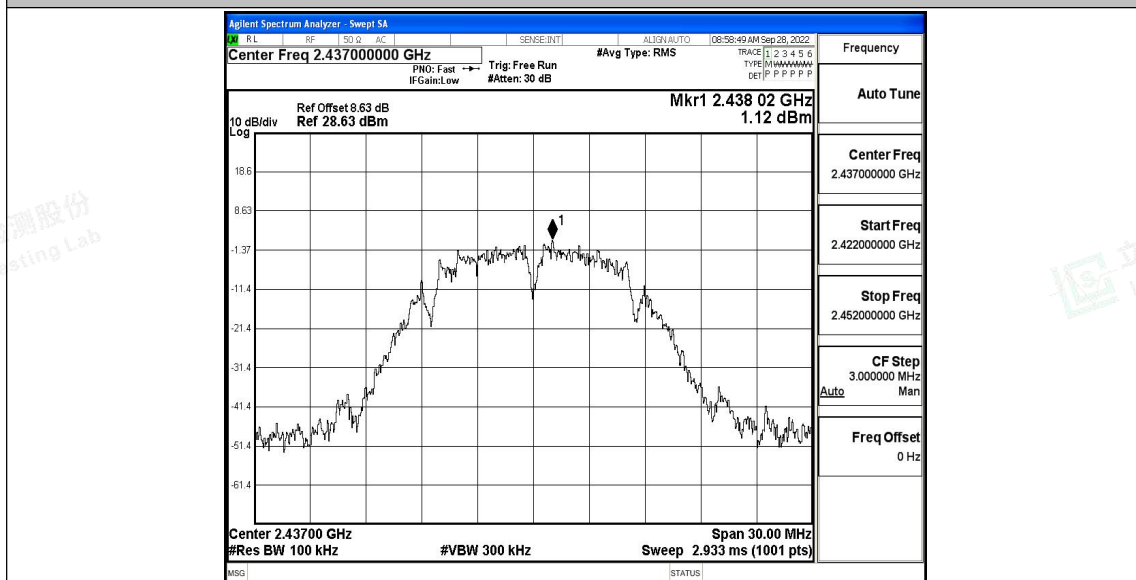
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

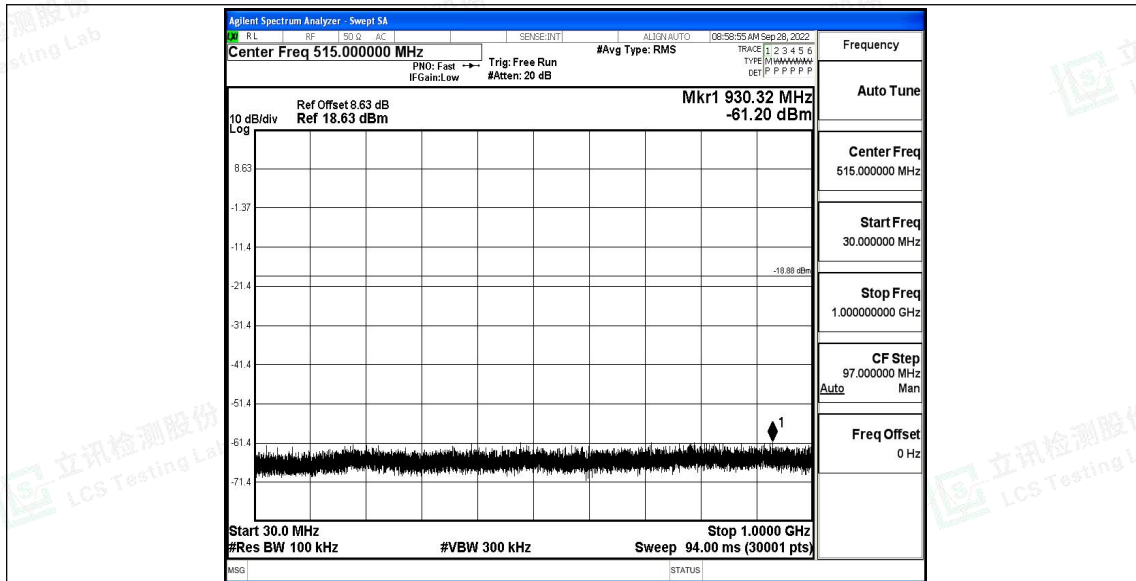


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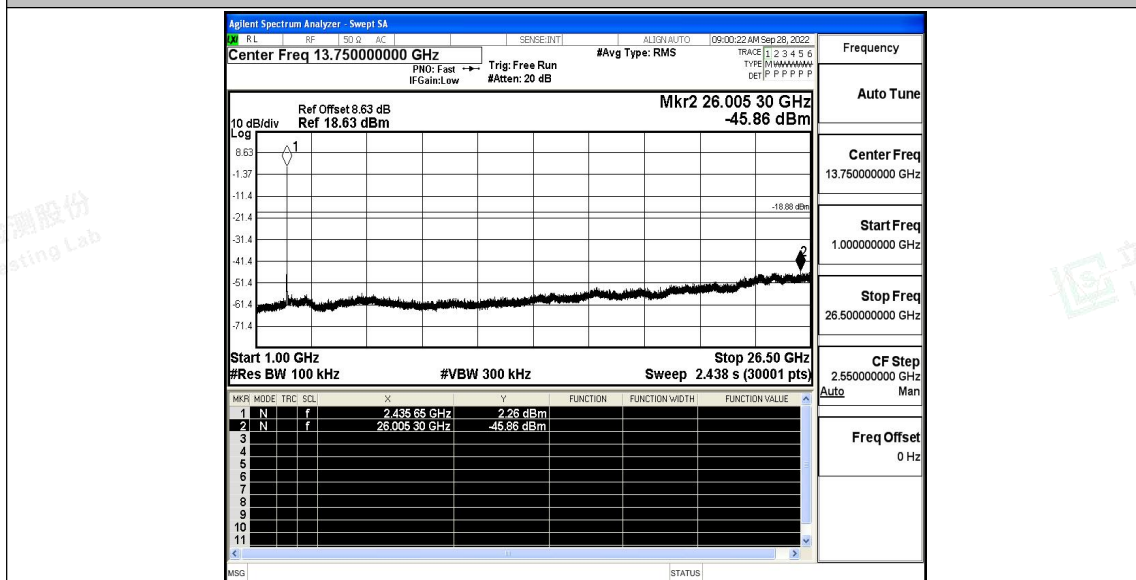
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

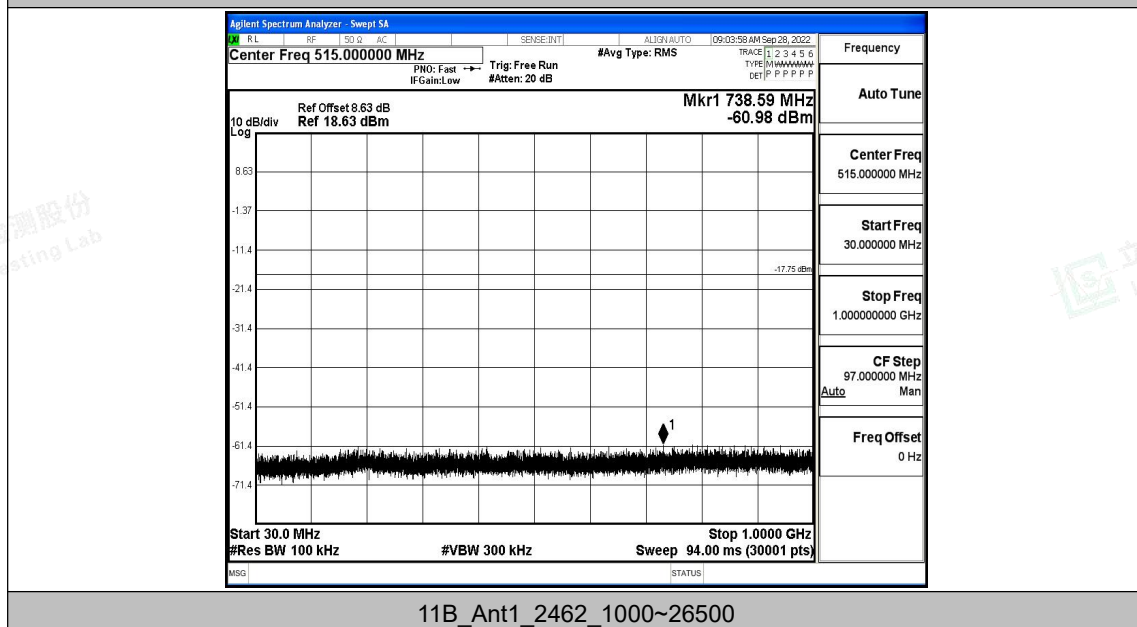
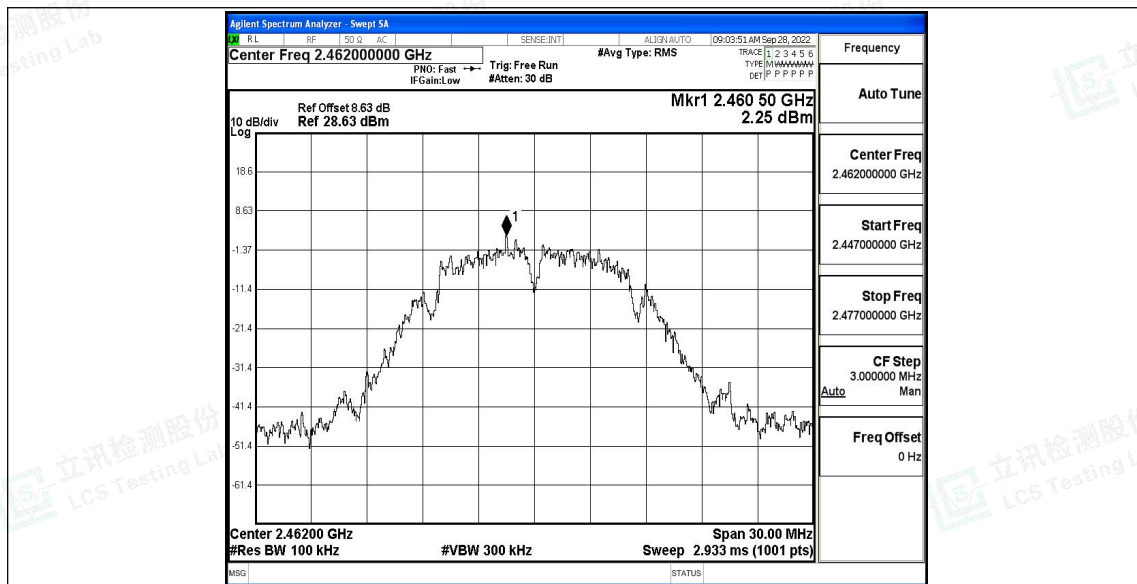


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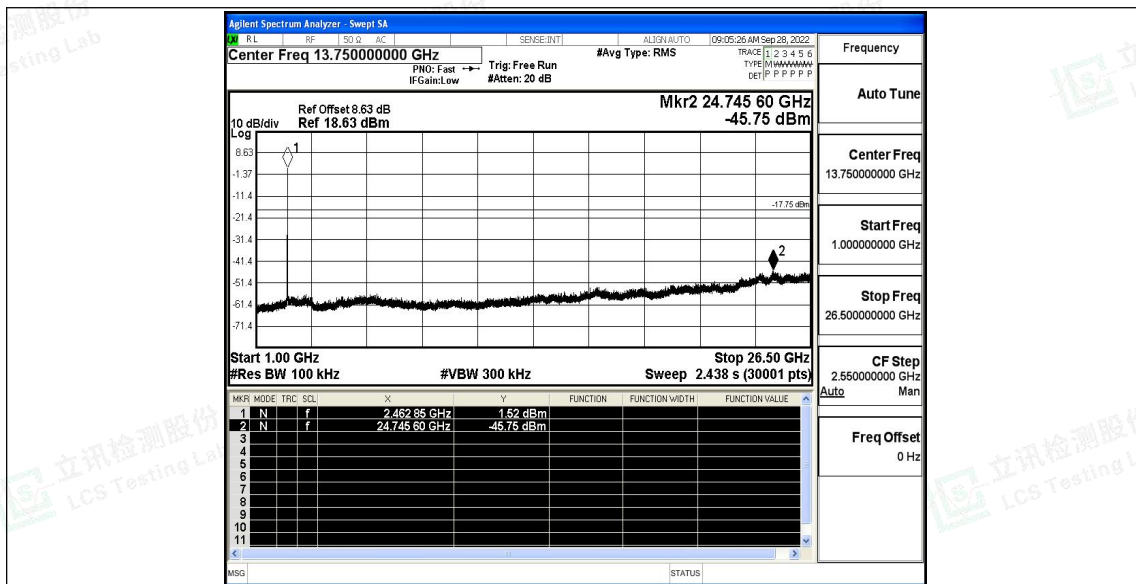


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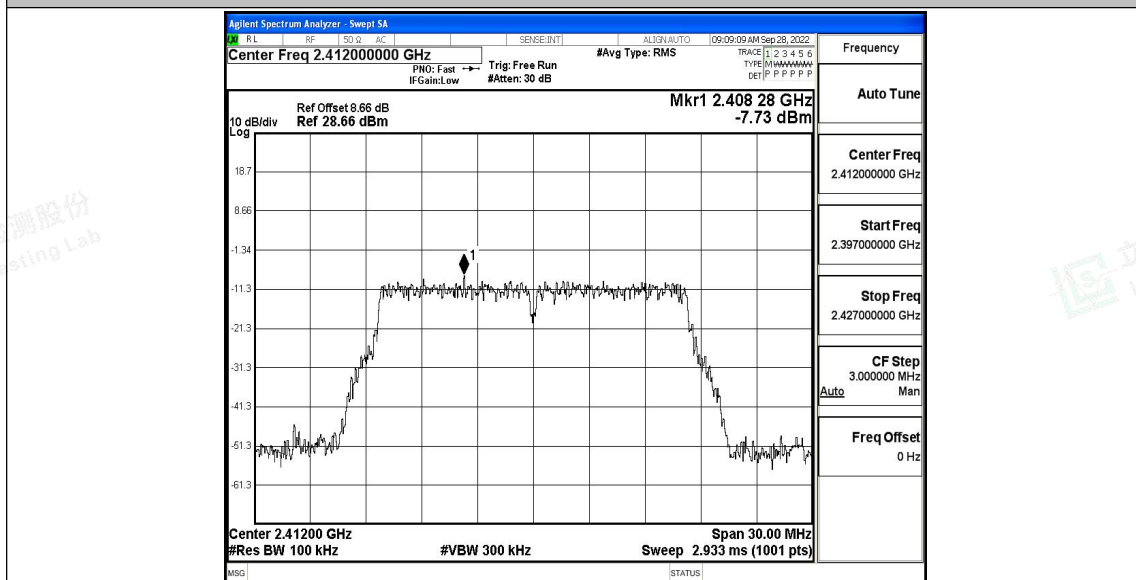
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

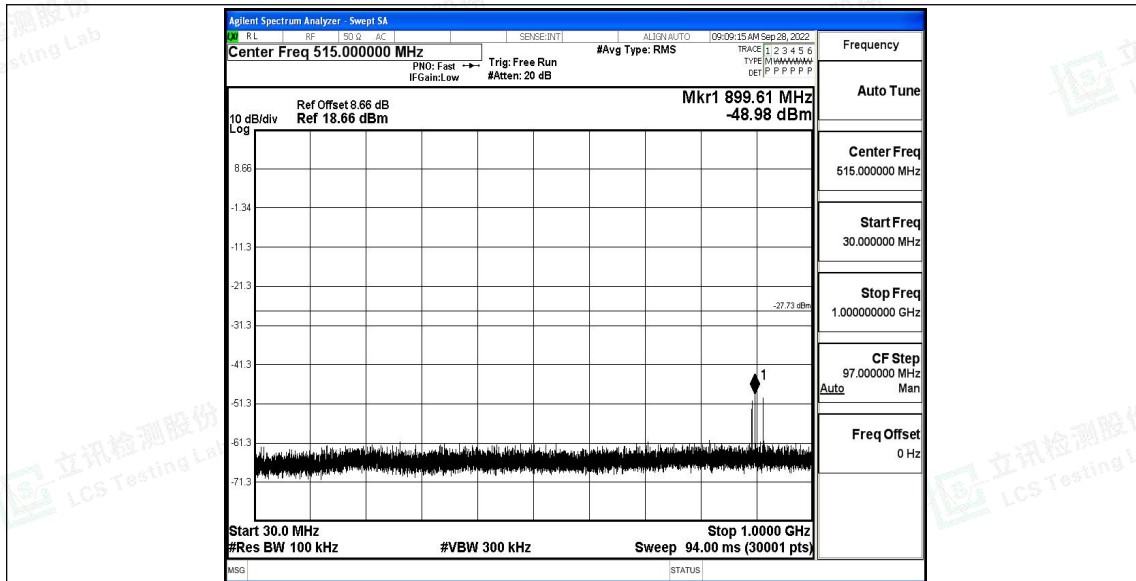


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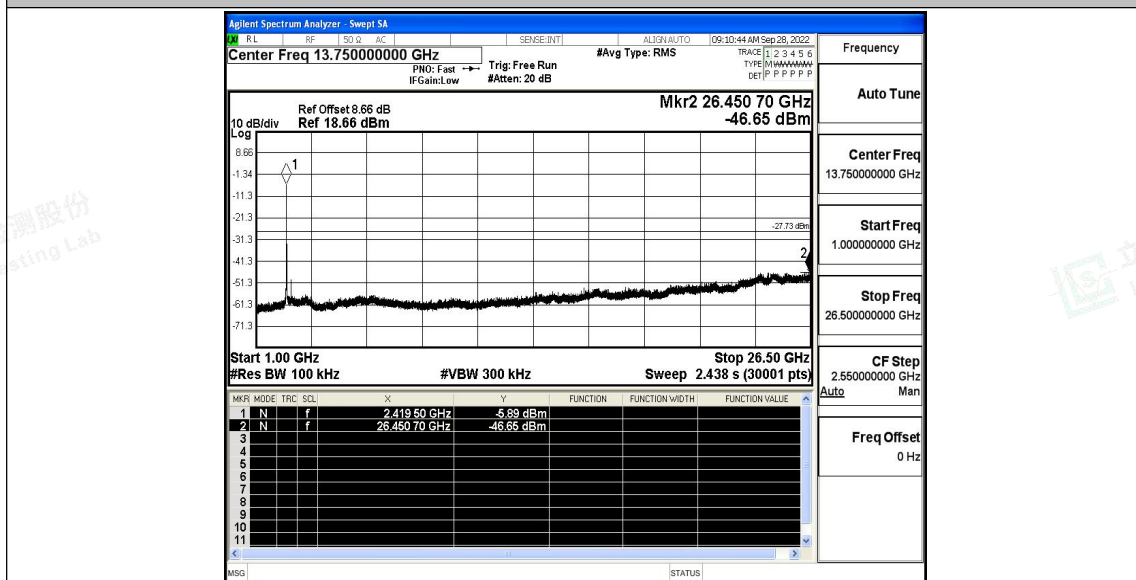
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



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