



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Powerflex 10x Optical Zoom Camera

Test Model: DC130

Environmental Conditions

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





A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2406.960	2416.960	0.5	PASS
		2437	9.520	2432.480	2442.000	0.5	PASS
		2462	9.600	2457.400	2467.000	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	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	17.560	2403.200	2420.760	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.240	2439.920	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.920	2434.240	2470.160	0.5	PASS



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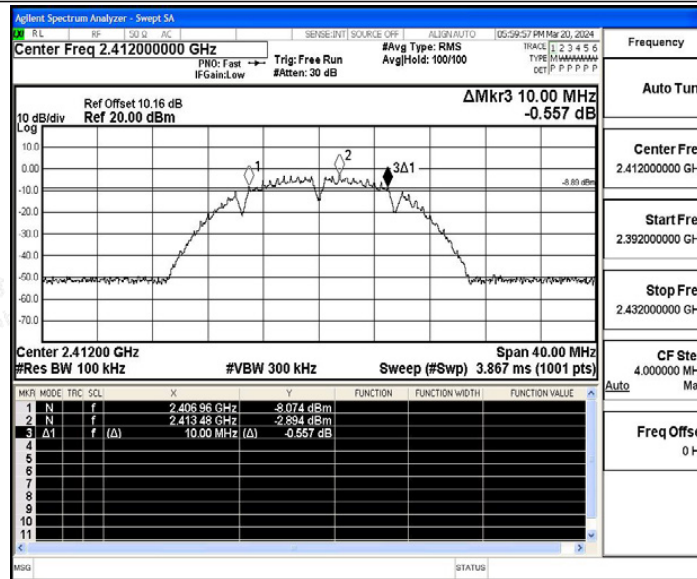
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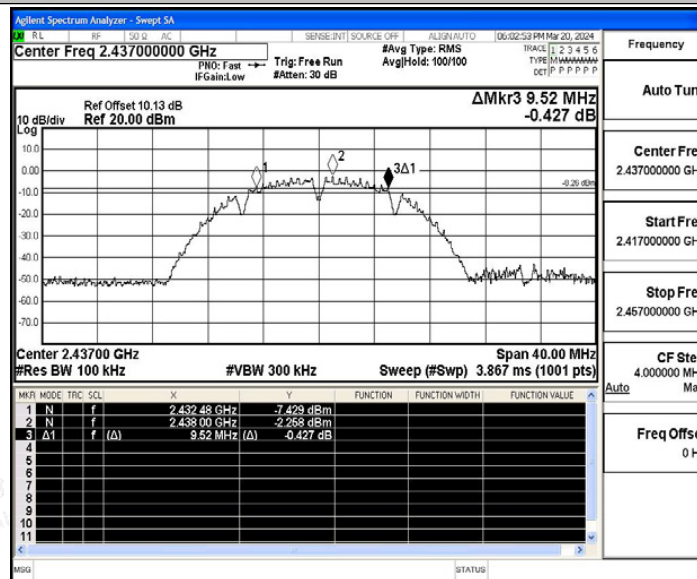


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

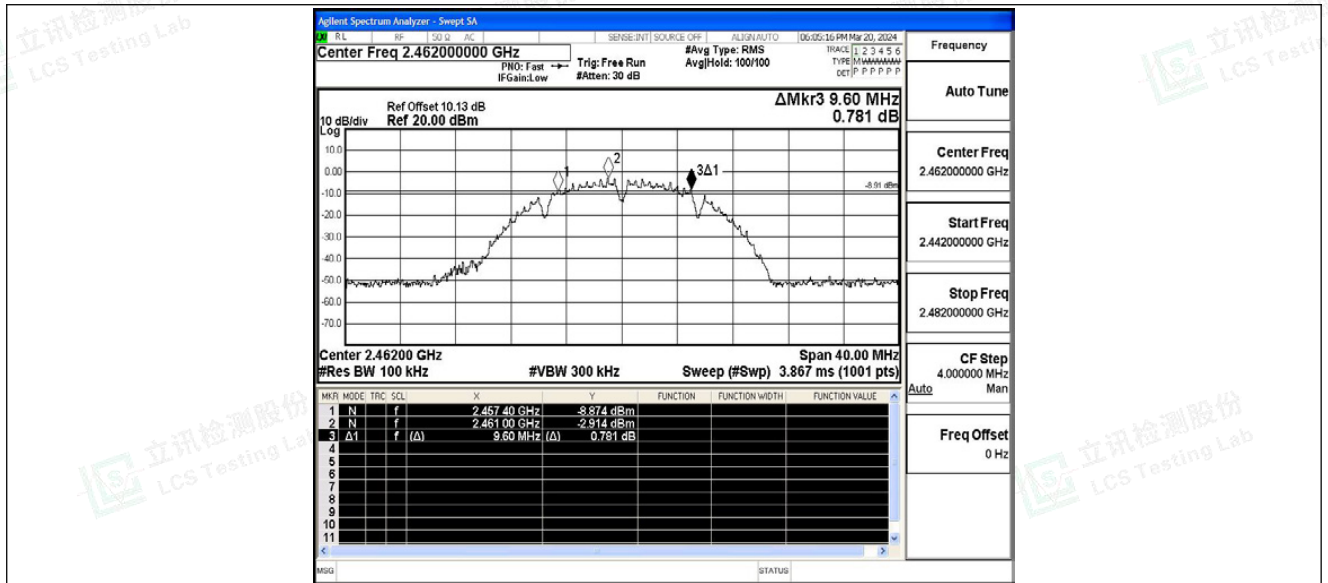


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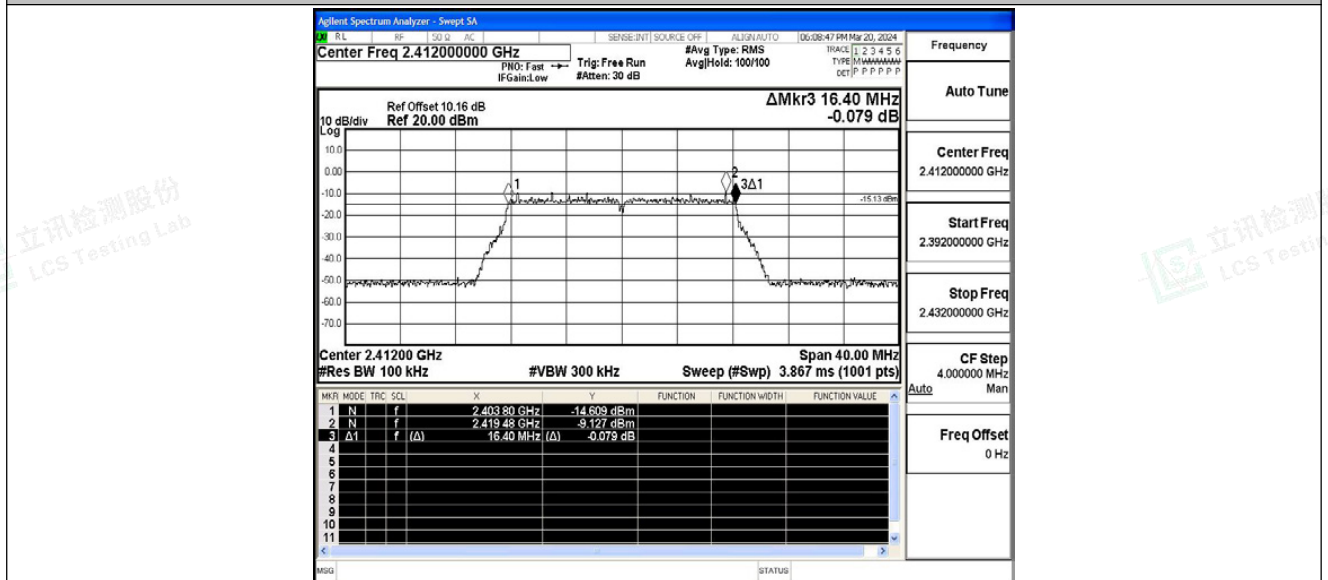
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11G_Ant1_2412



11G_Ant1_2437

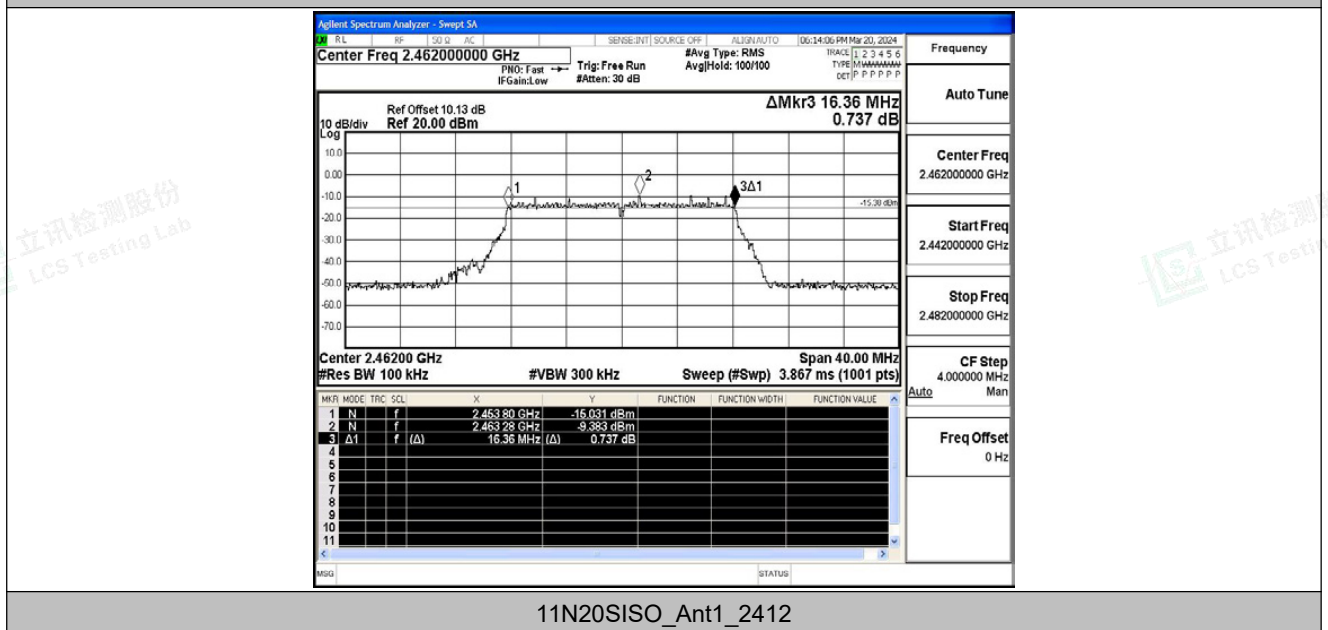
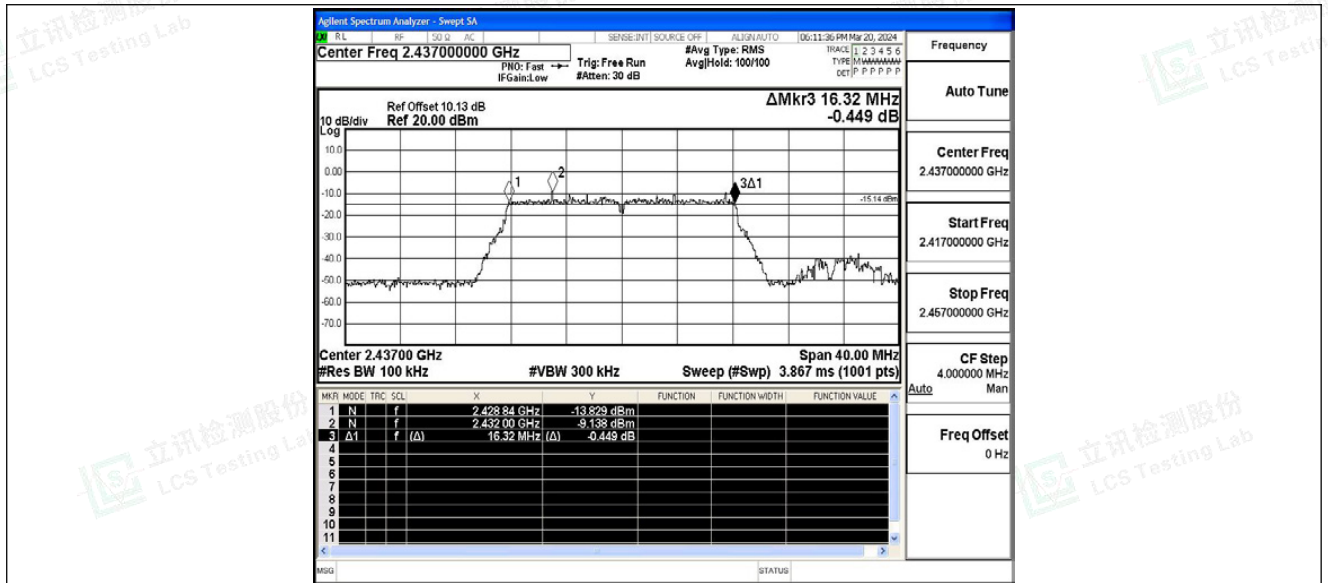


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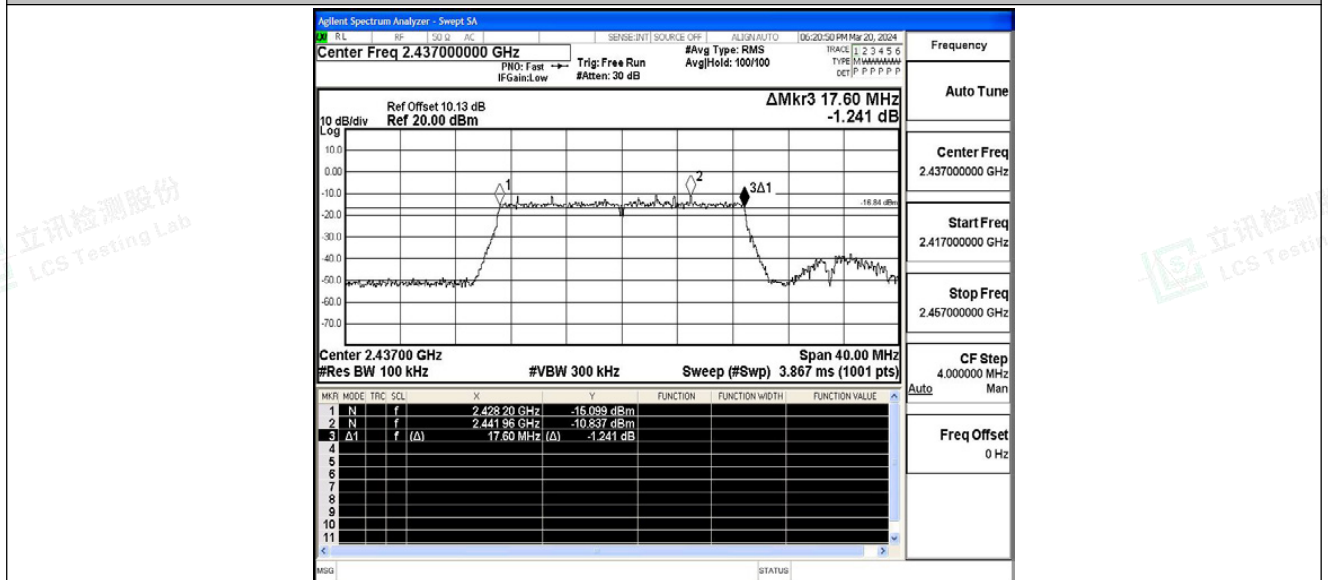
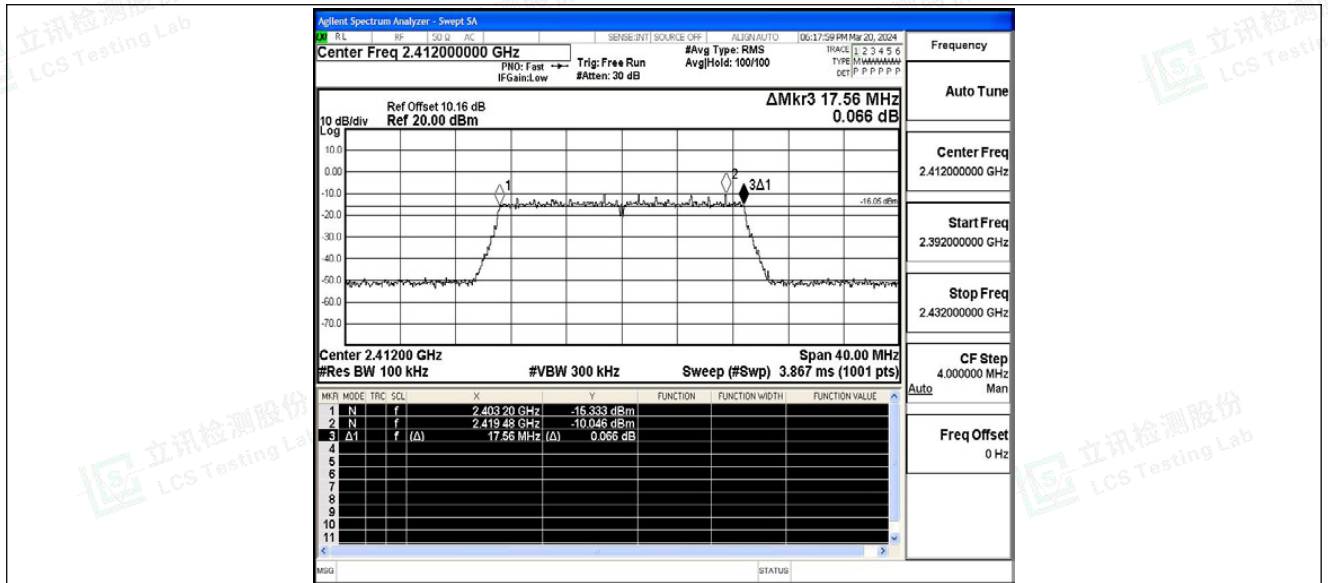


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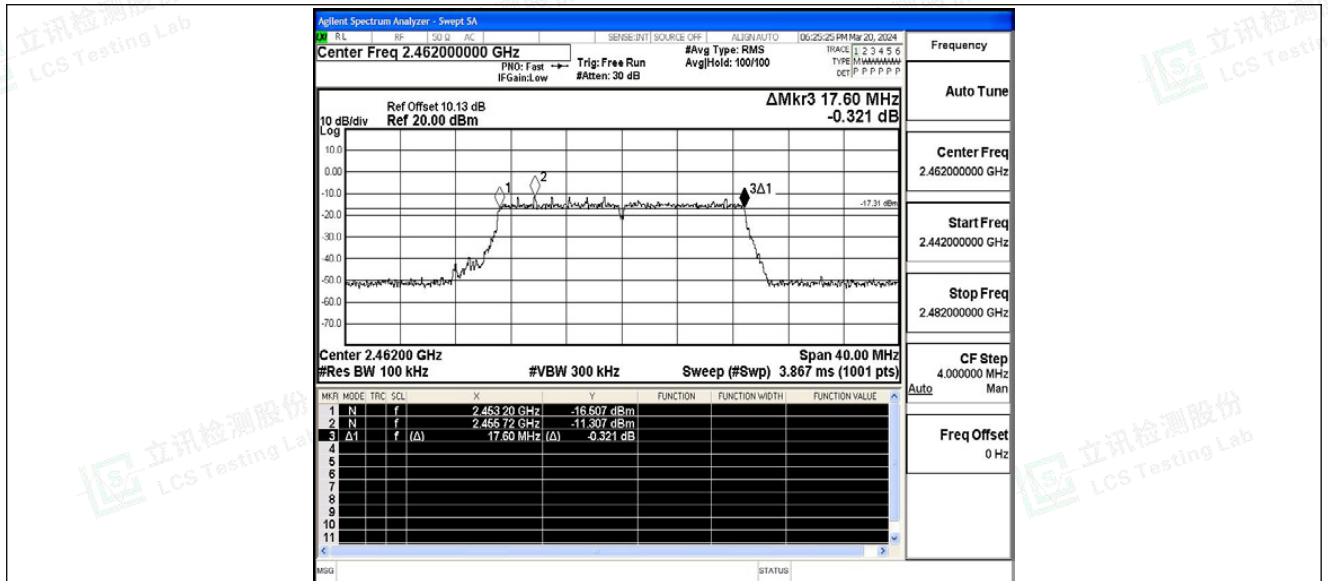


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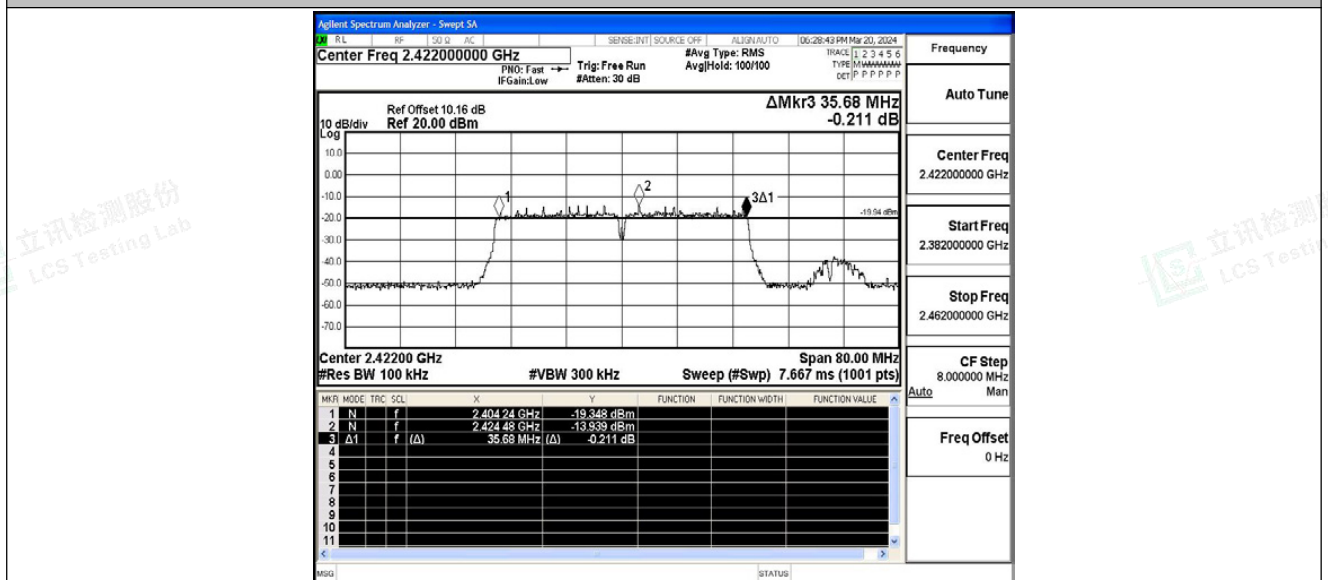
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

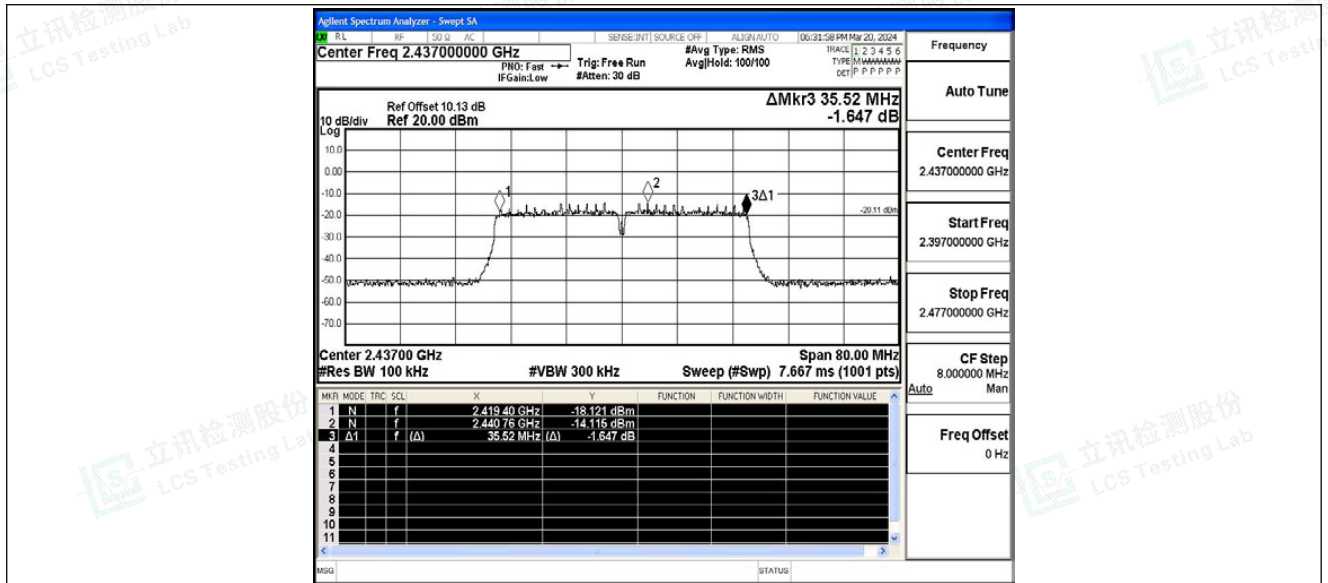


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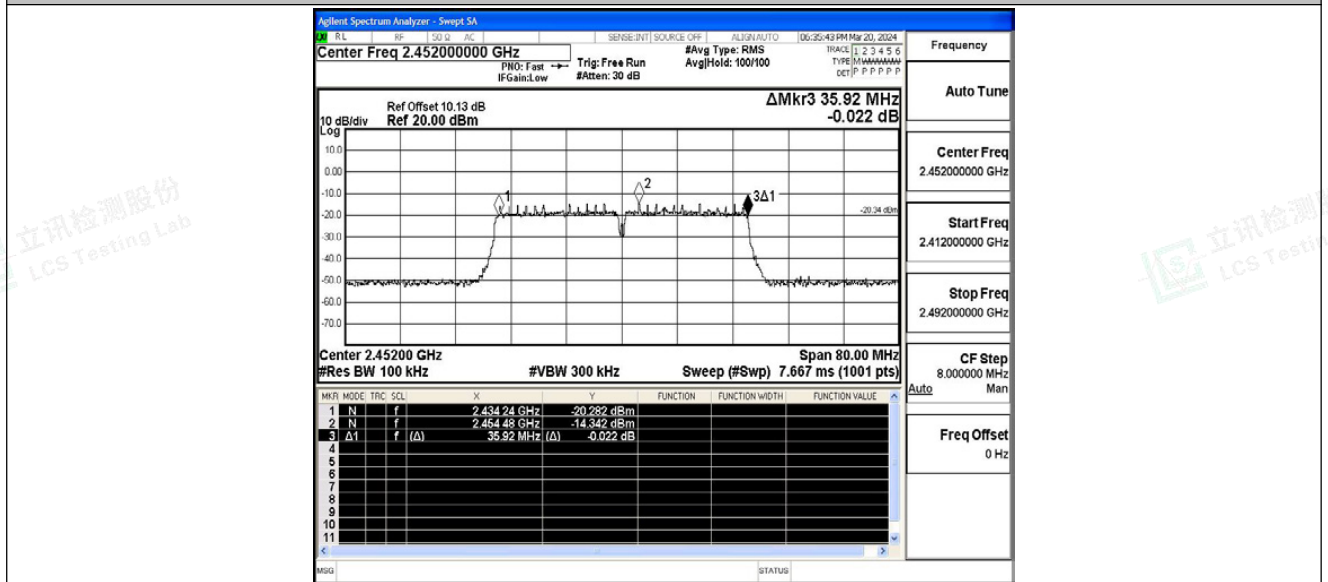
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11N40SISO_Ant1_2452



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A.2 Maximum Peak conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	8.26	≤30.00	PASS
		2437	---	8.33	≤30.00	PASS
		2462	---	8.69	≤30.00	PASS
11G	Ant1	2412	---	7.32	≤30.00	PASS
		2437	---	7.49	≤30.00	PASS
		2462	---	7.59	≤30.00	PASS
11N20SISO	Ant1	2412	---	6.17	≤30.00	PASS
		2437	---	6.27	≤30.00	PASS
		2462	---	6.54	≤30.00	PASS
11N40SISO	Ant1	2422	---	6.18	≤30.00	PASS
		2437	---	6.25	≤30.00	PASS
		2452	---	6.45	≤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]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-16.20	≤8.00	---	PASS
		2437	-16.01	≤8.00	---	PASS
		2462	-16.53	≤8.00	---	PASS
11G	Ant1	2412	-19.88	≤8.00	---	PASS
		2437	-19.83	≤8.00	---	PASS
		2462	-19.24	≤8.00	---	PASS
11N20SISO	Ant1	2412	-19.85	≤8.00	---	PASS
		2437	-19.71	≤8.00	---	PASS
		2462	-24.79	≤8.00	---	PASS
11N40SISO	Ant1	2422	-27.89	≤8.00	---	PASS
		2437	-27.60	≤8.00	---	PASS
		2452	-27.17	≤8.00	---	PASS



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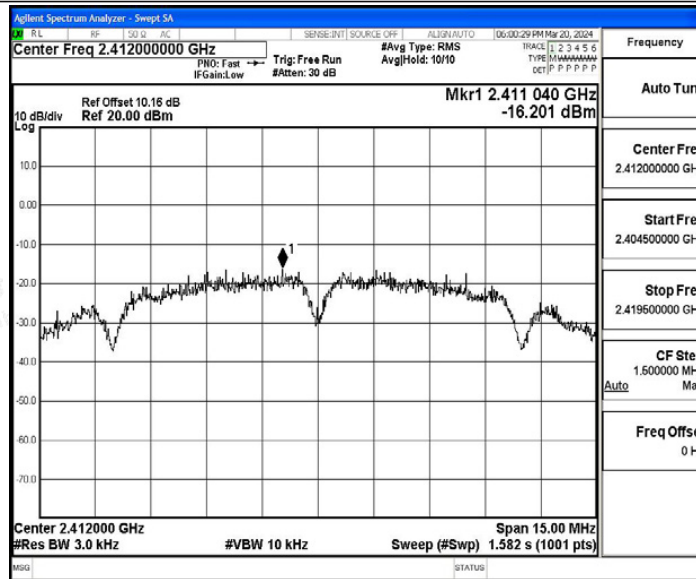
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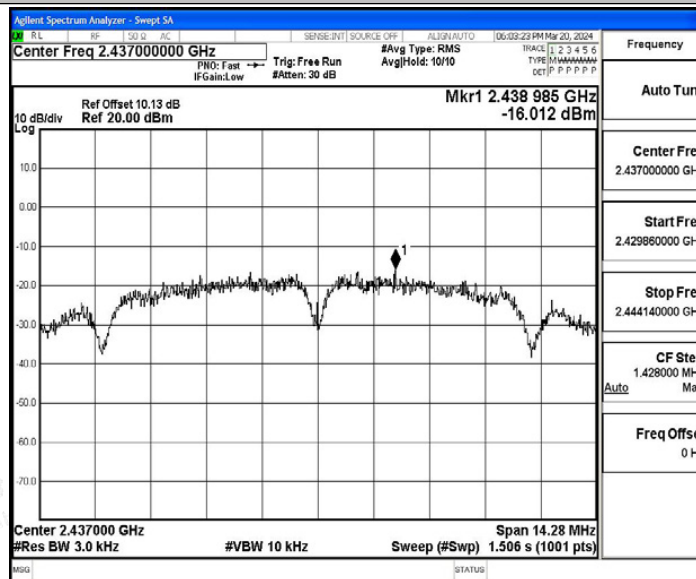


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

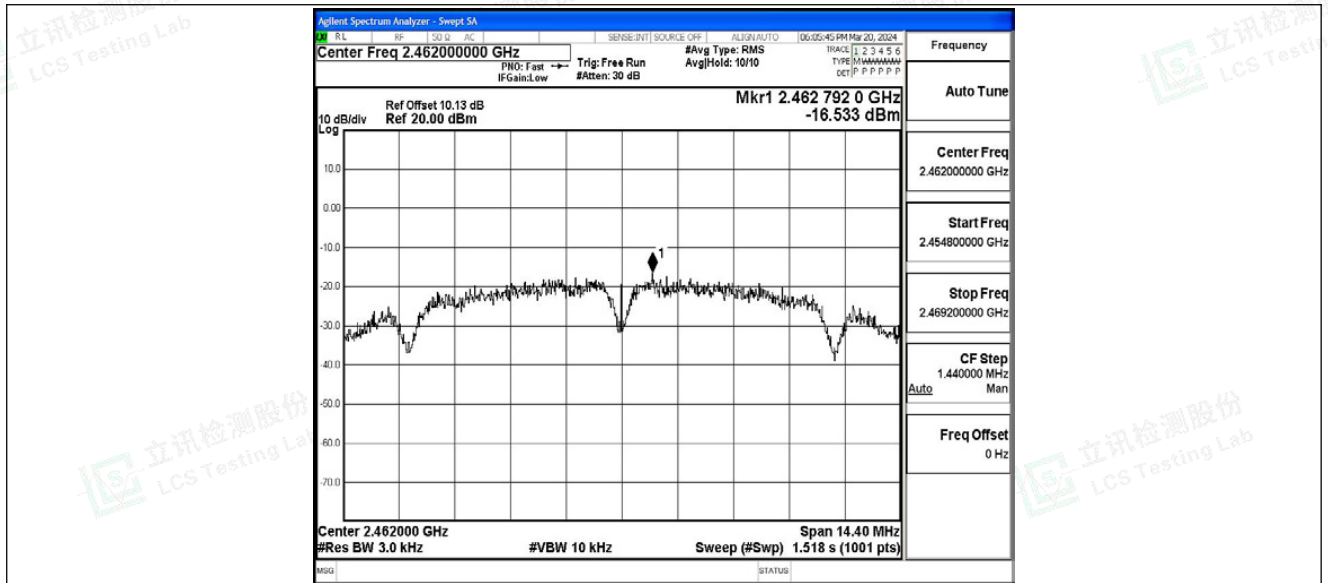


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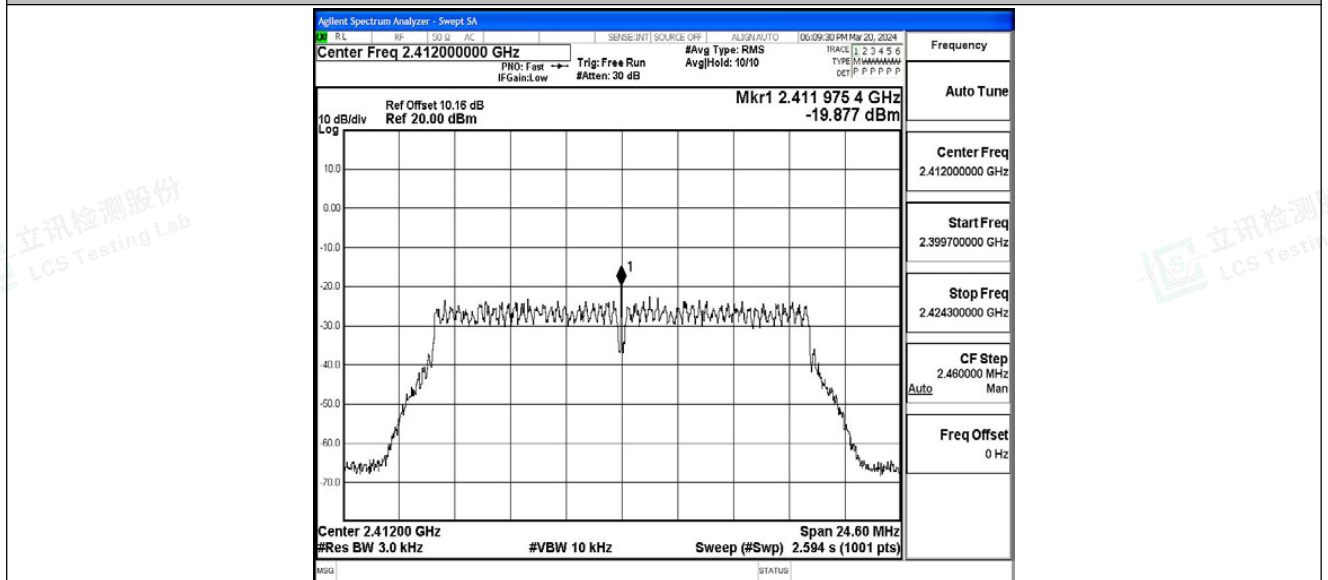
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11G_Ant1_2412



11G_Ant1_2437

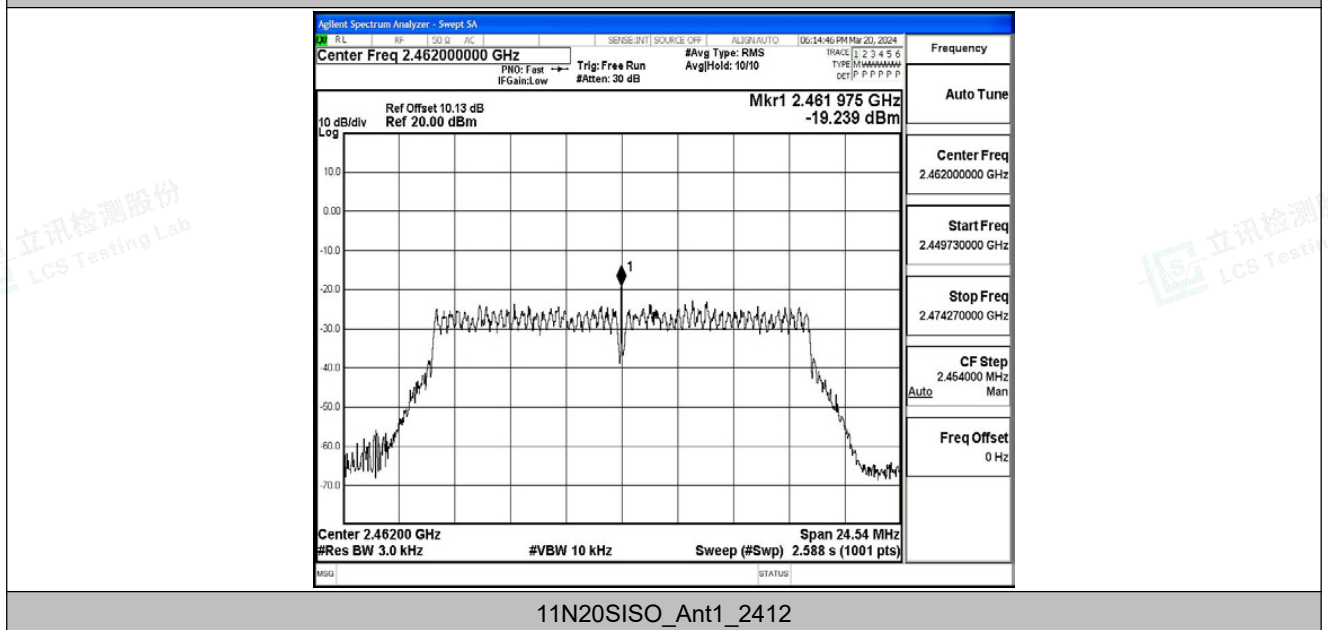
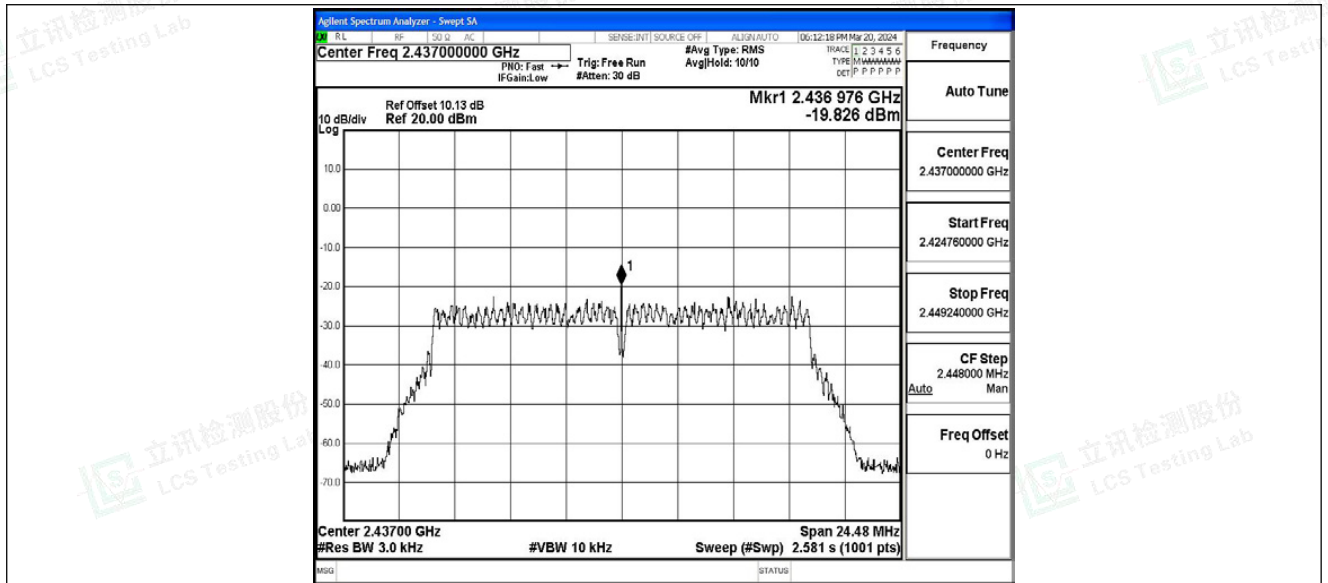


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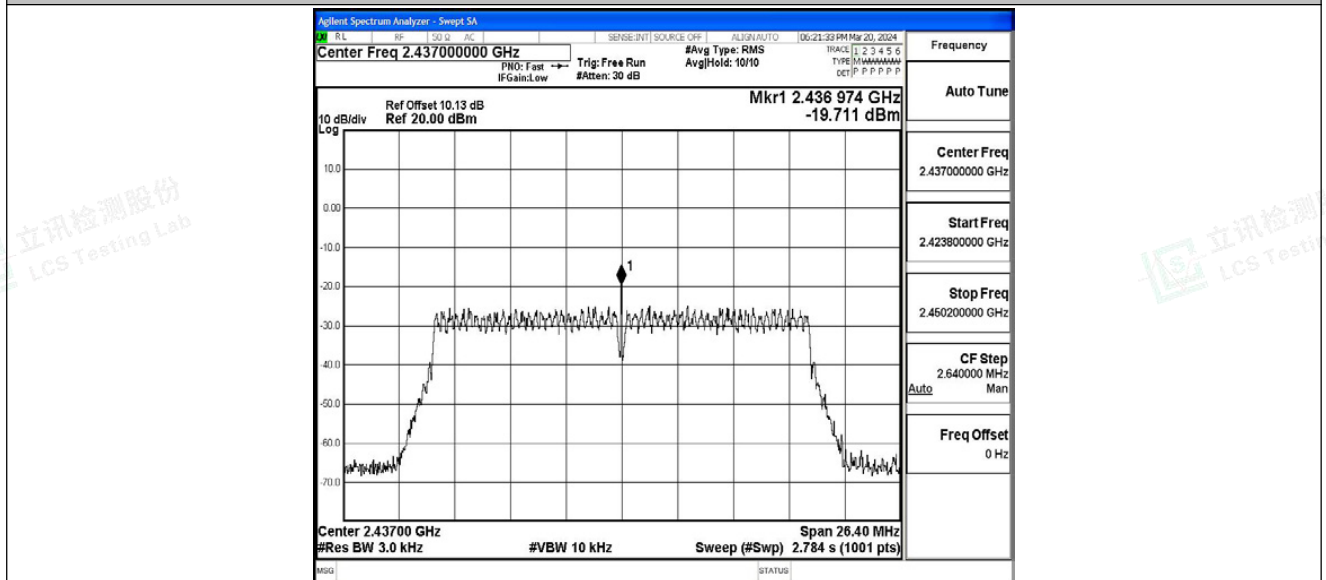
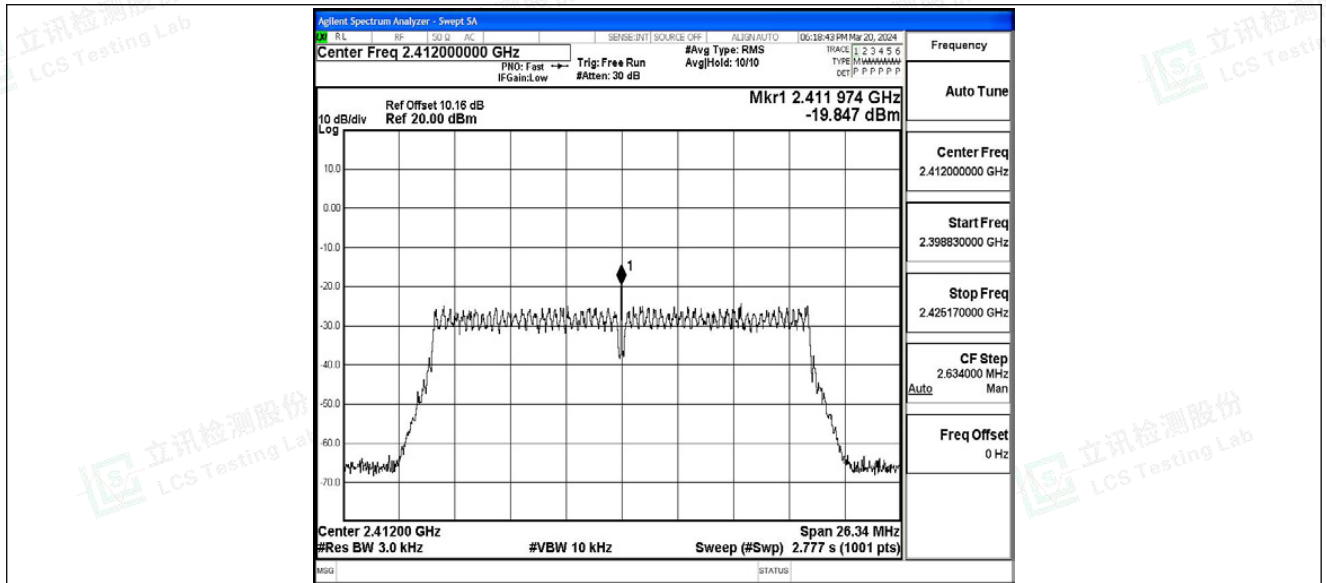


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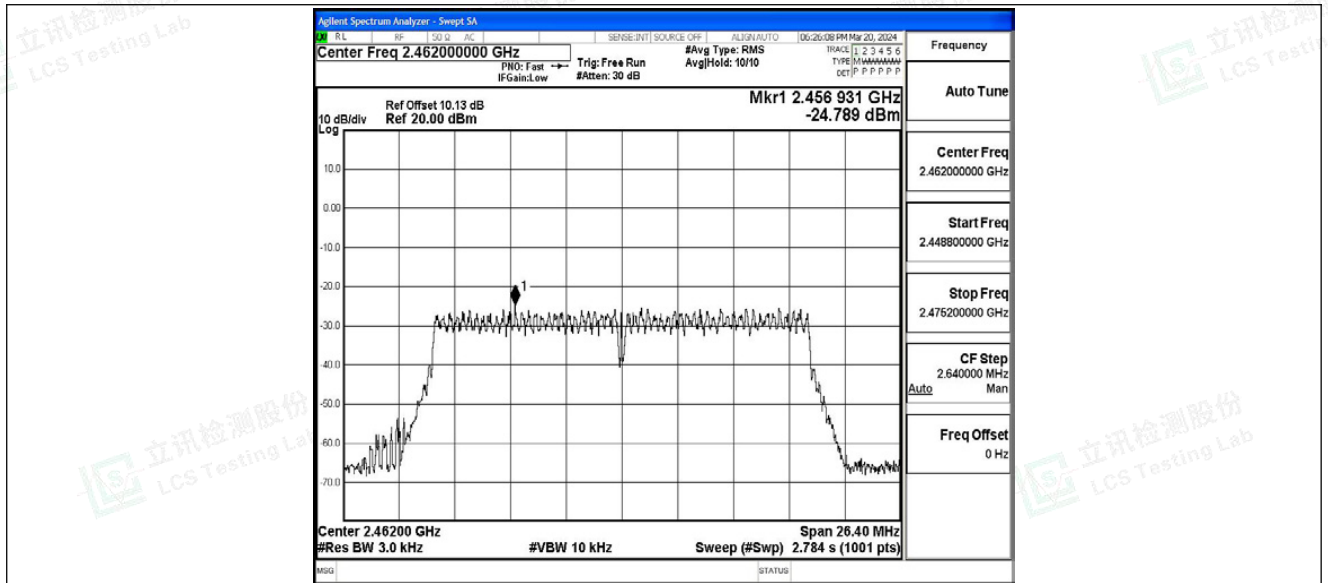


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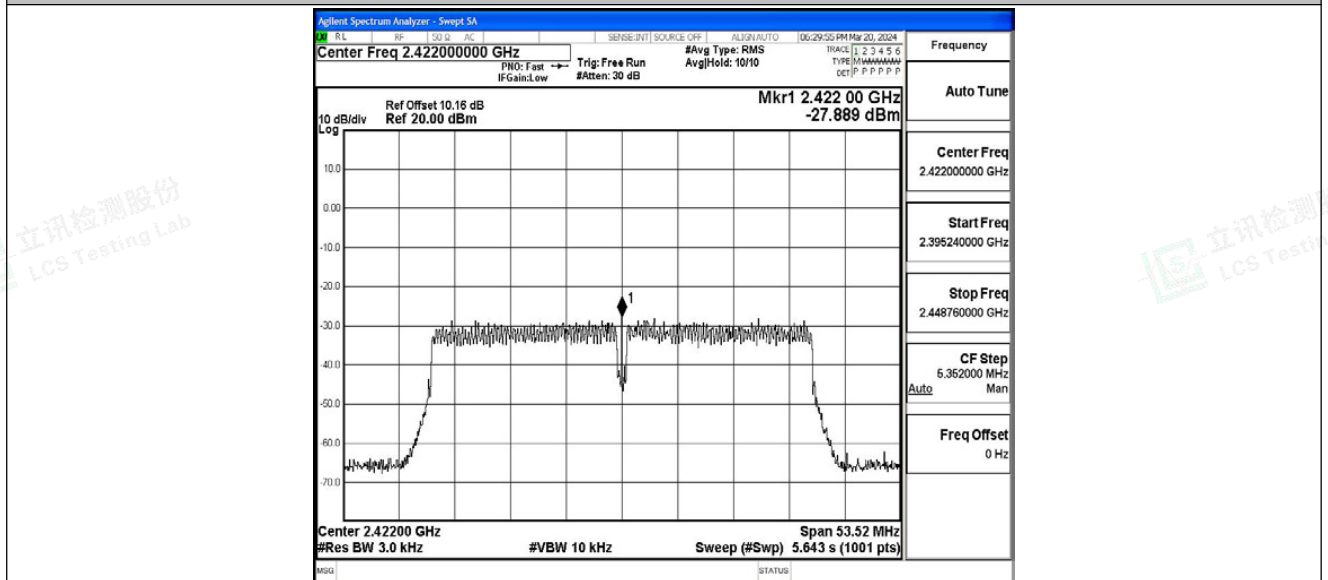
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

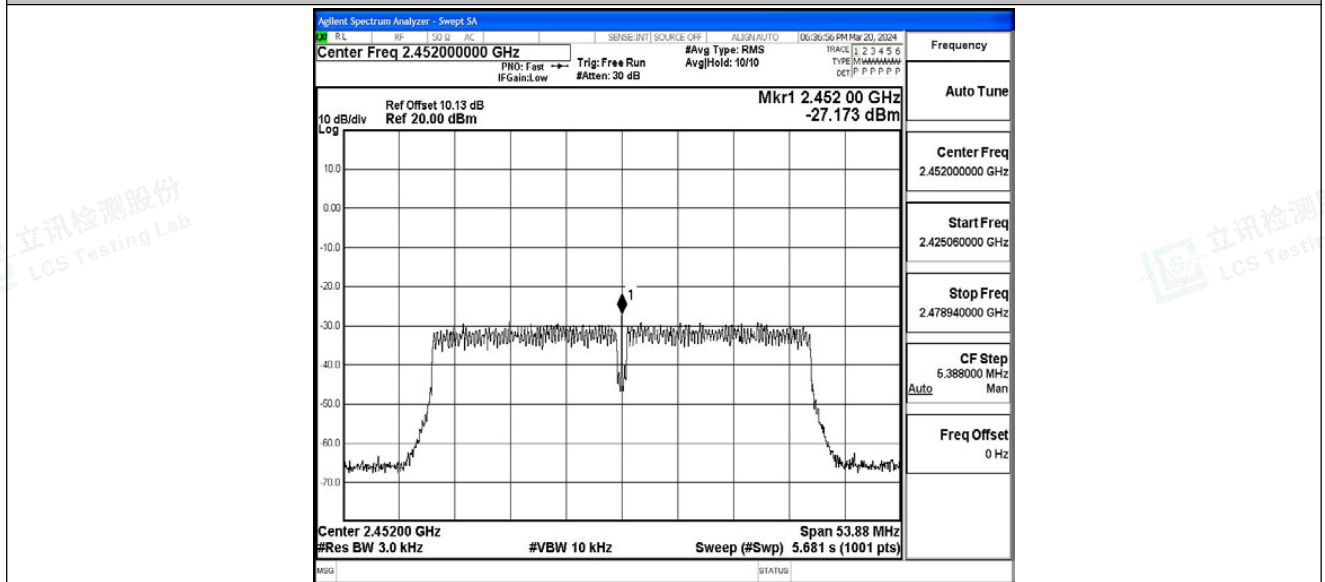
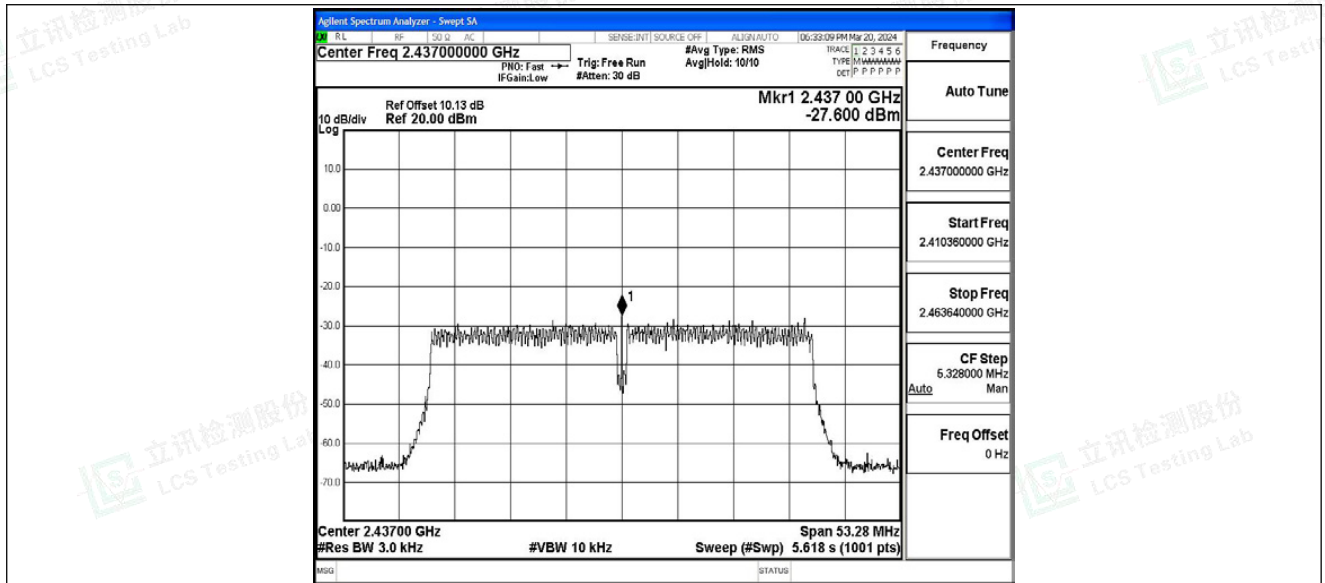


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-2.54	-48.43	≤ -22.54	PASS
		High	2462	-2.99	-48.09	≤ -22.99	PASS
11G	Ant1	Low	2412	-9.10	-48.11	≤ -29.1	PASS
		High	2462	-10.06	-48.16	≤ -30.06	PASS
11N20SISO	Ant1	Low	2412	-10.14	-48.52	≤ -30.14	PASS
		High	2462	-10.69	-47.62	≤ -30.69	PASS
11N40SISO	Ant1	Low	2422	-14.06	-48.25	≤ -34.06	PASS
		High	2452	-14.42	-47.92	≤ -34.42	PASS



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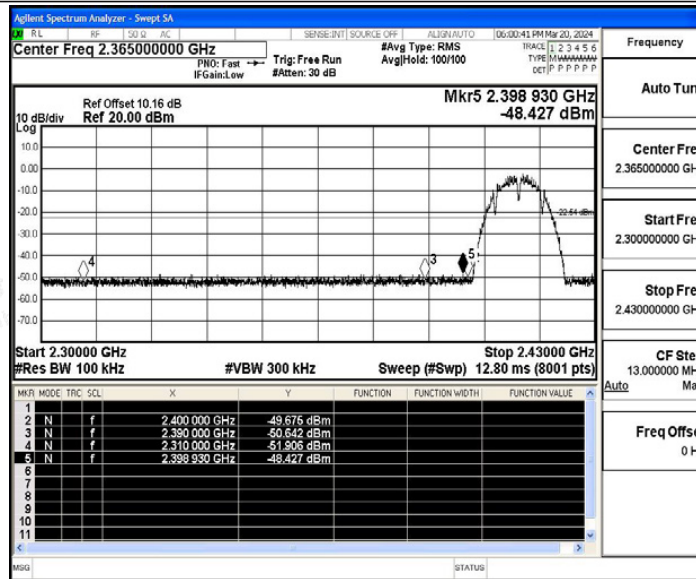
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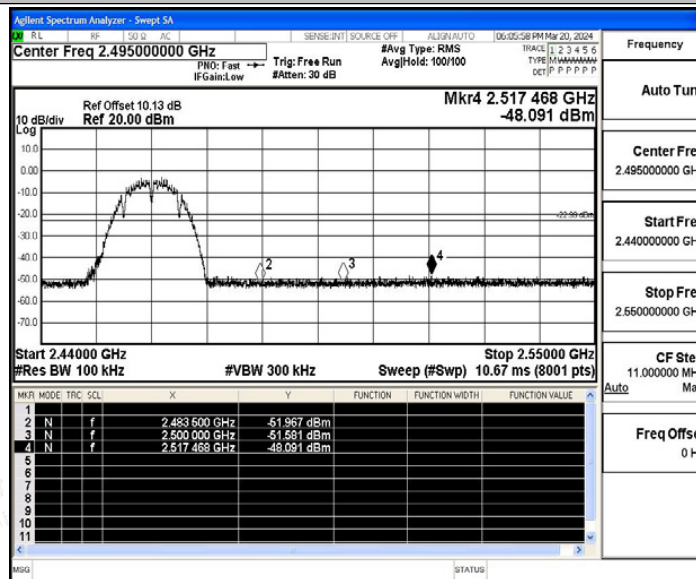


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

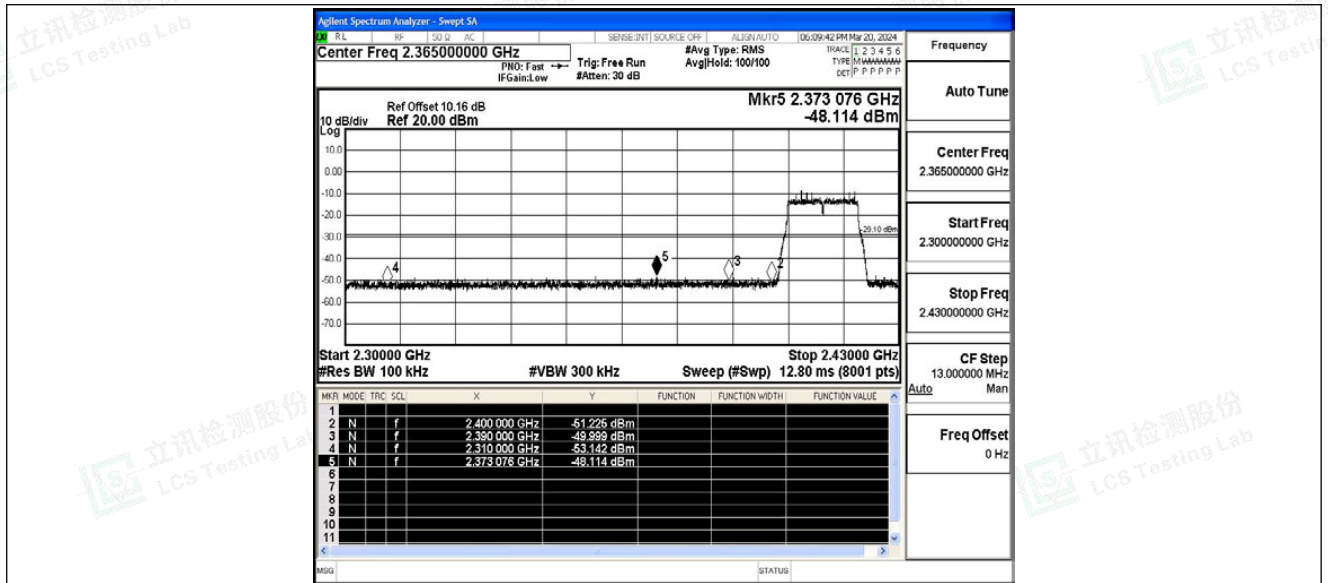


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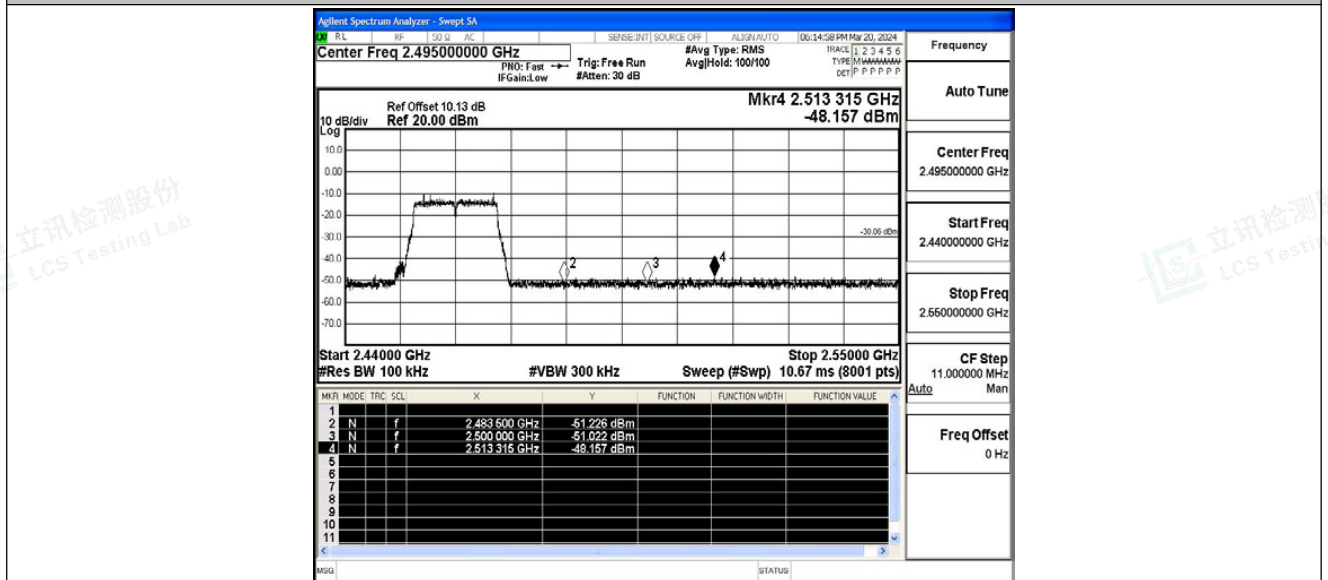
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

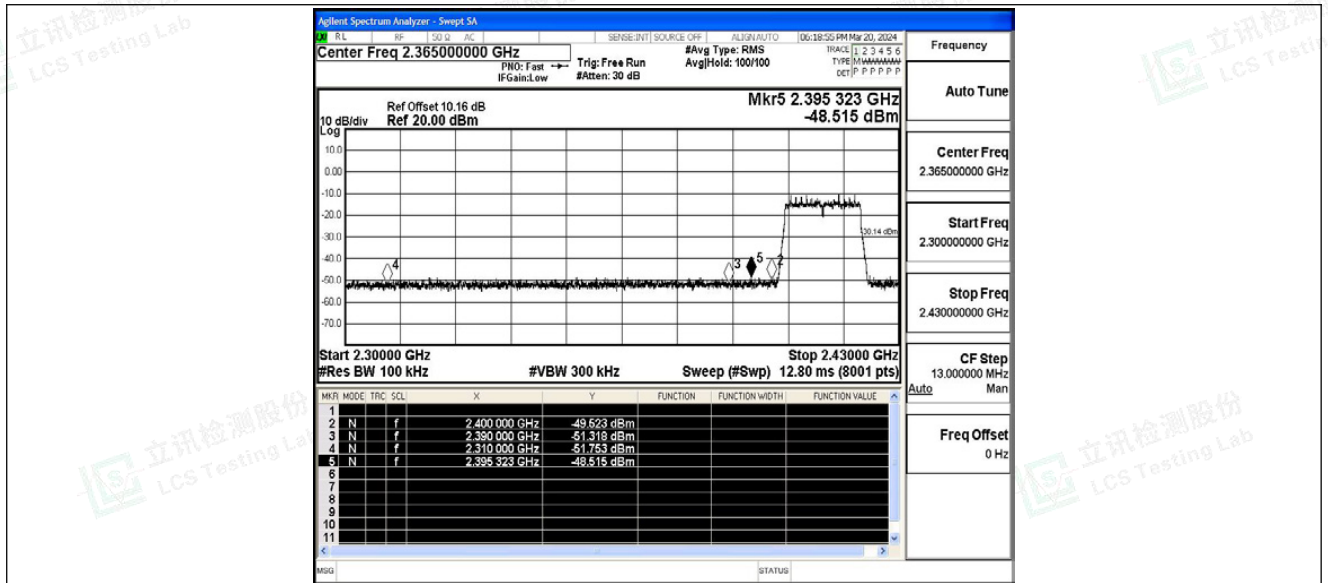


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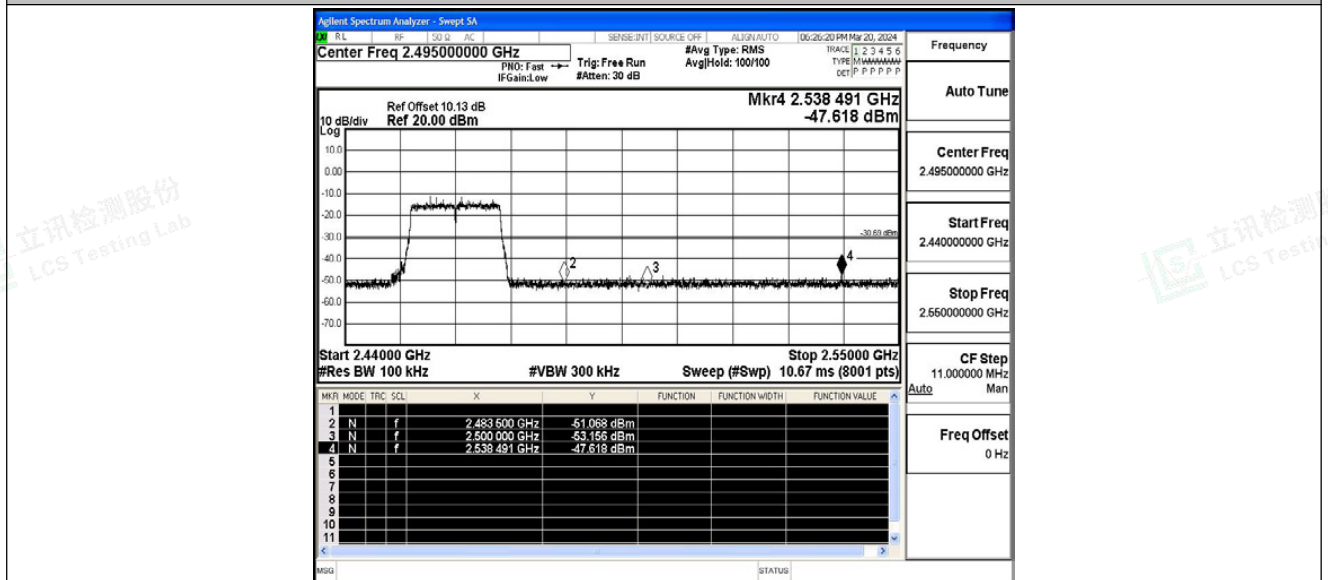
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11N20ISO_Ant1_High_2462



11N40ISO_Ant1_Low_2422

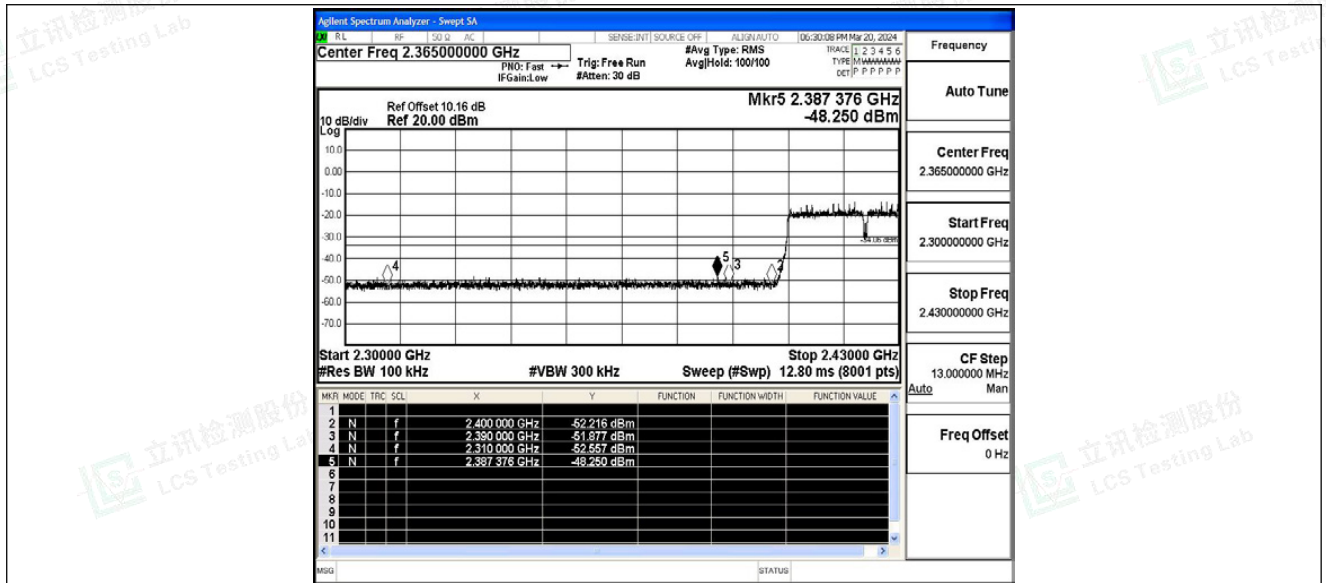


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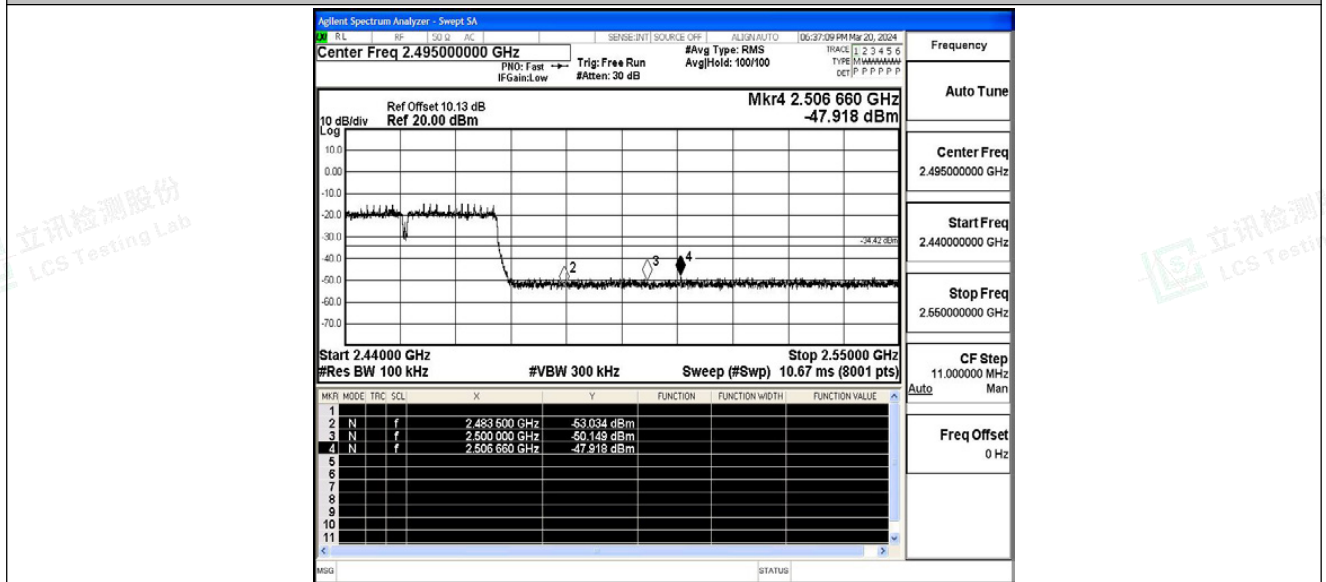
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11N40SISO_Ant1_High_2452



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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	30~1000	-2.54	-59.4	≤ -22.54	PASS
			1000~26500	-2.54	-46.75	≤ -22.54	PASS
		2437	30~1000	-2.89	-59.72	≤ -22.89	PASS
			1000~26500	-2.89	-47.15	≤ -22.89	PASS
		2462	30~1000	-2.99	-59.63	≤ -22.99	PASS
			1000~26500	-2.99	-46	≤ -22.99	PASS
11G	Ant1	2412	30~1000	-9.10	-60	≤ -29.1	PASS
			1000~26500	-9.10	-46.92	≤ -29.1	PASS
		2437	30~1000	-9.10	-59.69	≤ -29.1	PASS
			1000~26500	-9.10	-47.26	≤ -29.1	PASS
		2462	30~1000	-10.06	-59.47	≤ -30.06	PASS
			1000~26500	-10.06	-46.52	≤ -30.06	PASS
11N20SISO	Ant1	2412	30~1000	-10.14	-59.43	≤ -30.14	PASS
			1000~26500	-10.14	-46.69	≤ -30.14	PASS
		2437	30~1000	-10.18	-59.39	≤ -30.18	PASS
			1000~26500	-10.18	-47.19	≤ -30.18	PASS
		2462	30~1000	-10.69	-58.62	≤ -30.69	PASS
			1000~26500	-10.69	-47.07	≤ -30.69	PASS
11N40SISO	Ant1	2422	30~1000	-14.06	-59.07	≤ -34.06	PASS
			1000~26500	-14.06	-47	≤ -34.06	PASS
		2437	30~1000	-14.00	-59.9	≤ -34	PASS
			1000~26500	-14.00	-47.34	≤ -34	PASS
		2452	30~1000	-14.42	-58.85	≤ -34.42	PASS
			1000~26500	-14.42	-47.65	≤ -34.42	PASS



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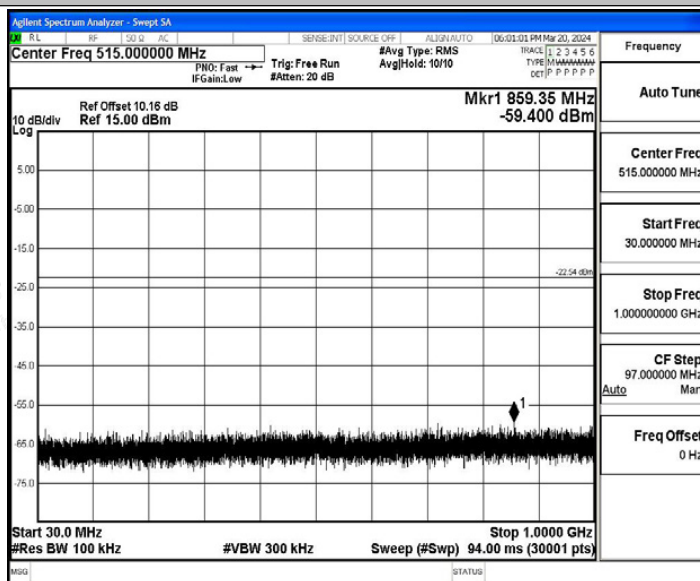
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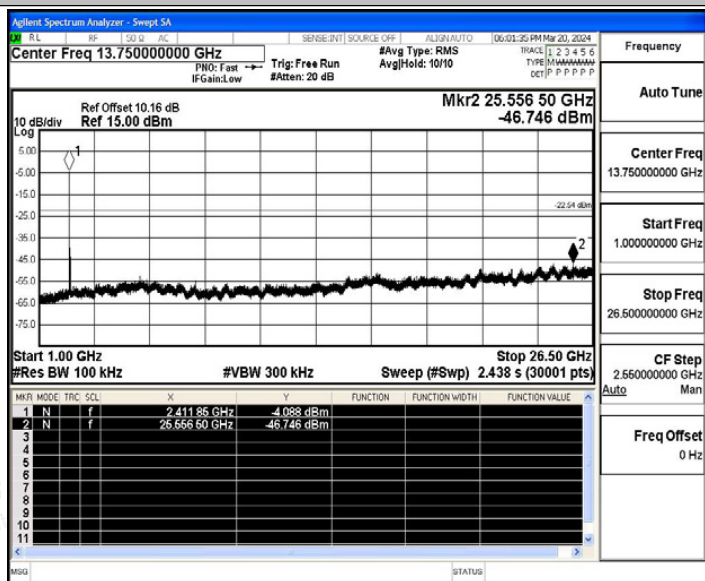


Test Graphs

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_30~1000

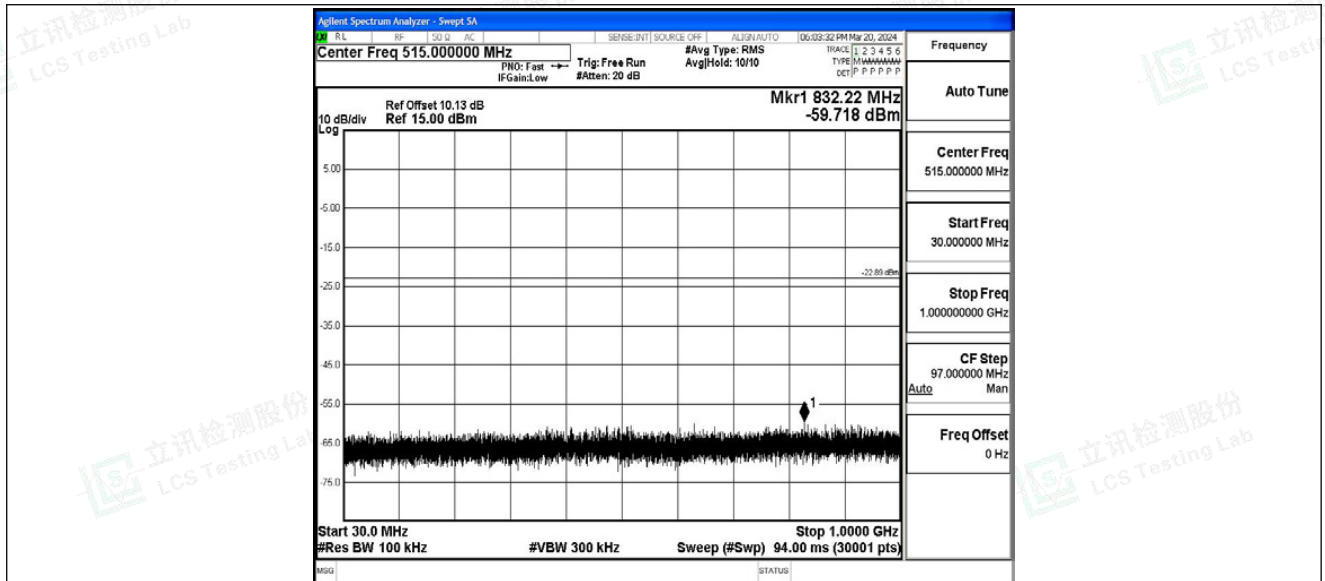


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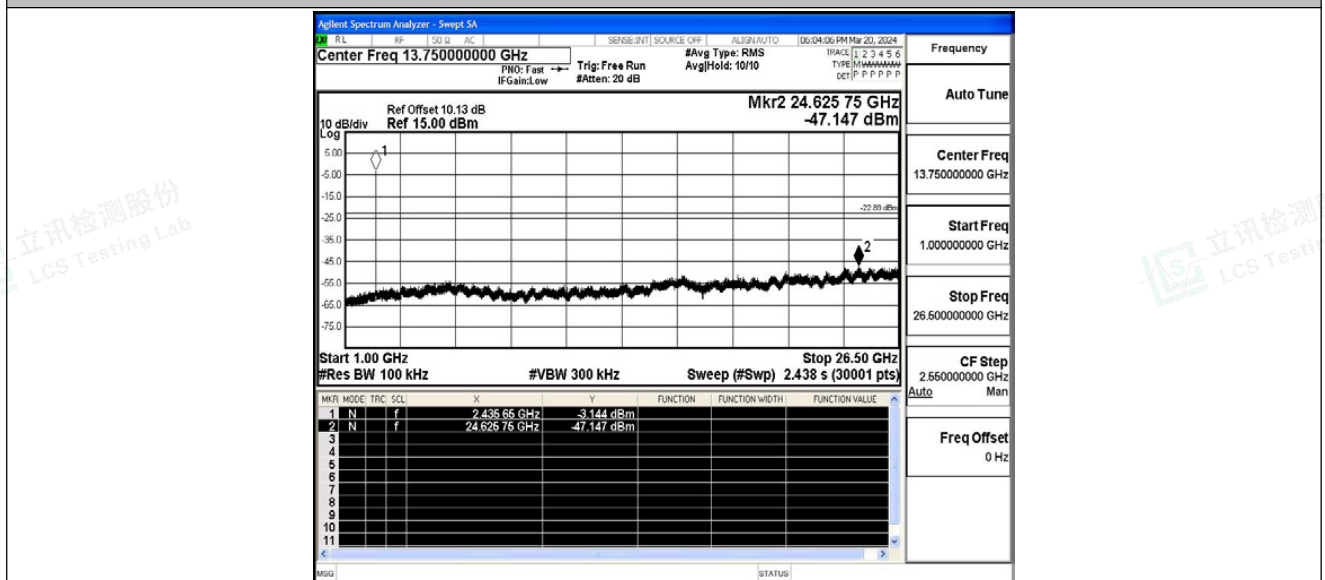
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

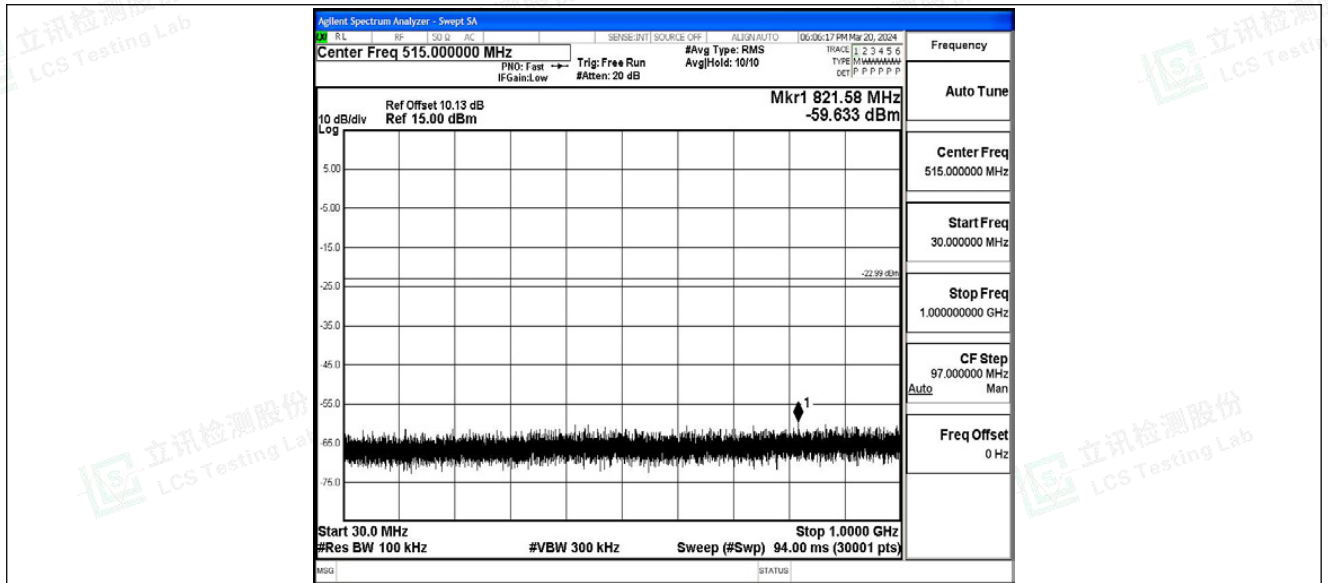


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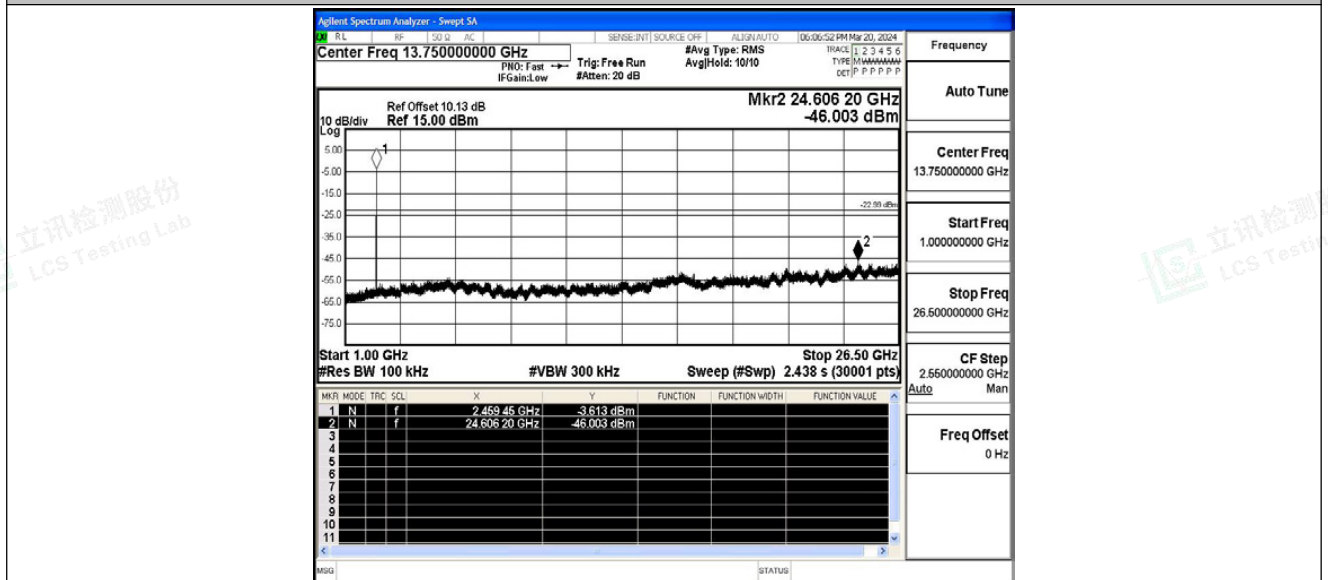
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

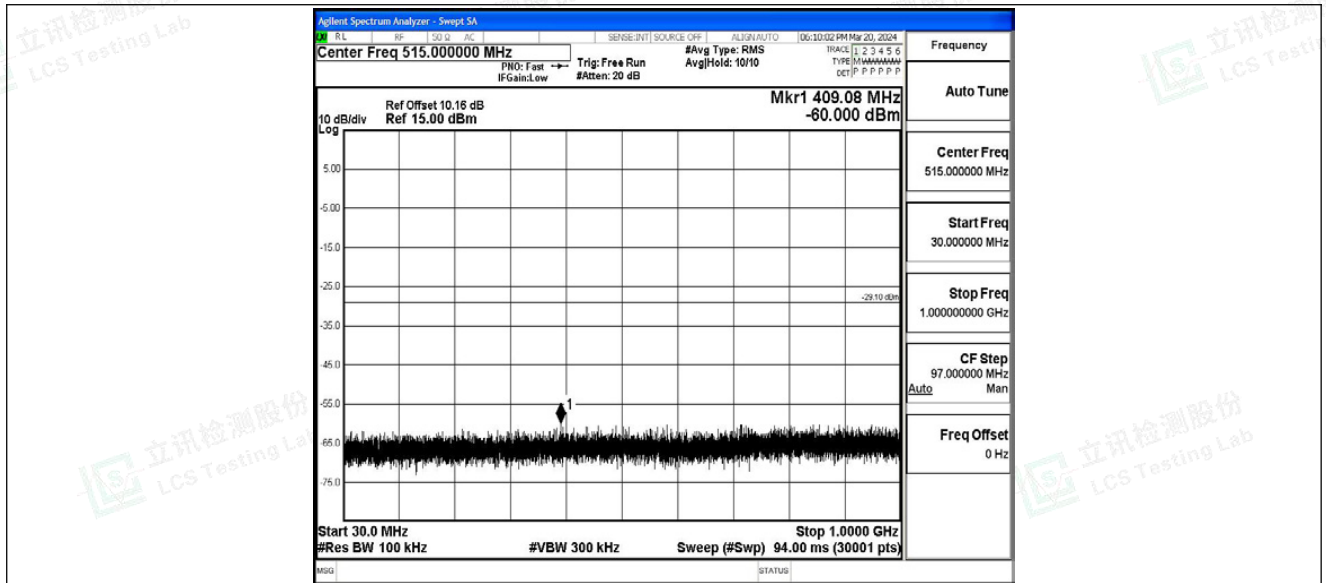


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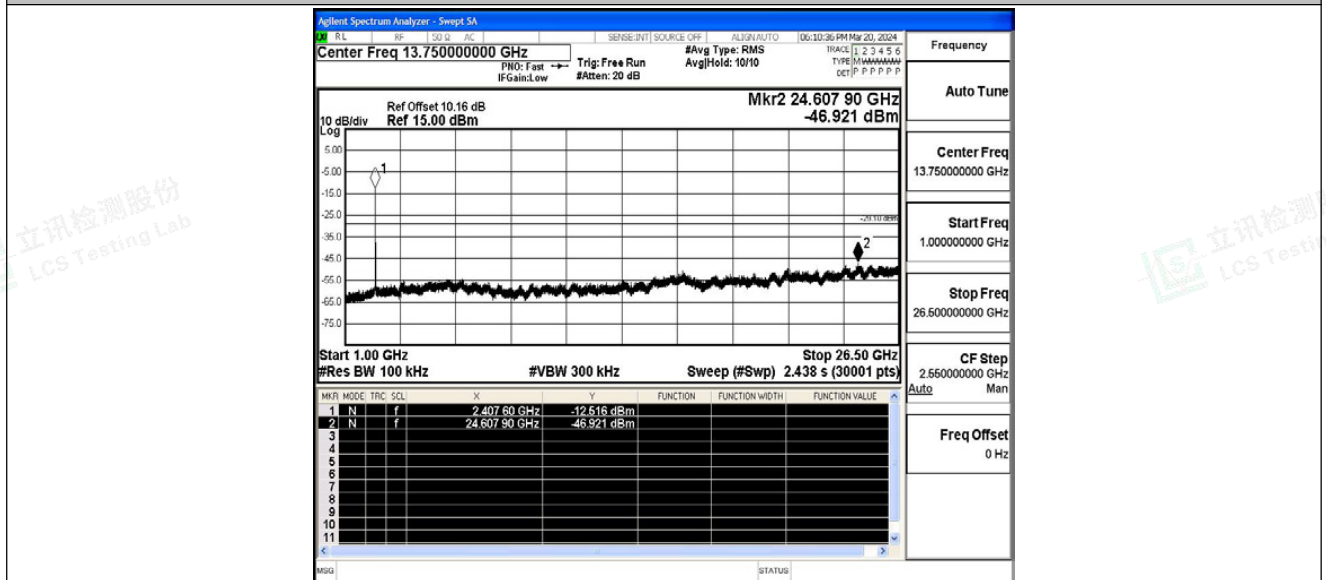
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_30~1000

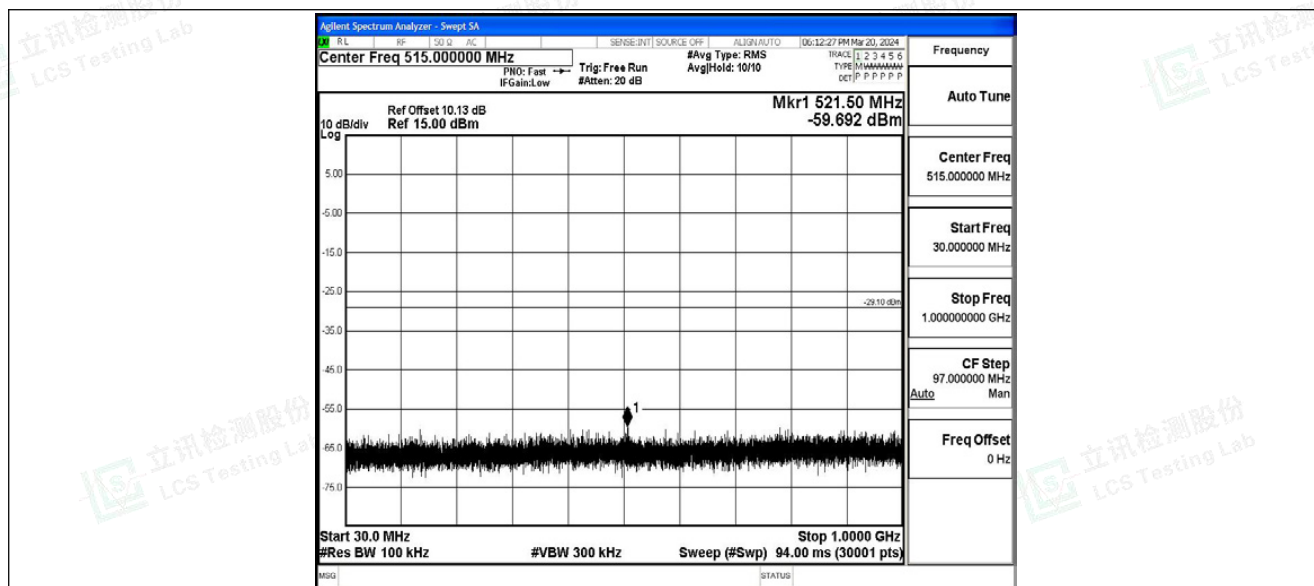


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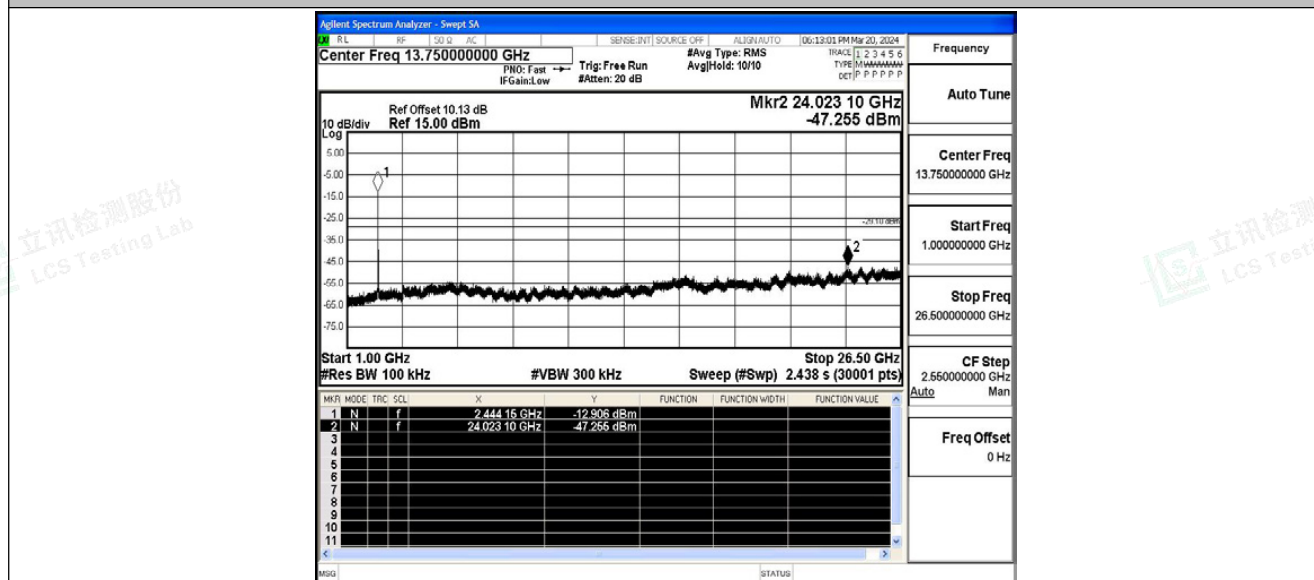
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11G Ant1 2437 1000~26500



11G Ant1 2462 30~1000

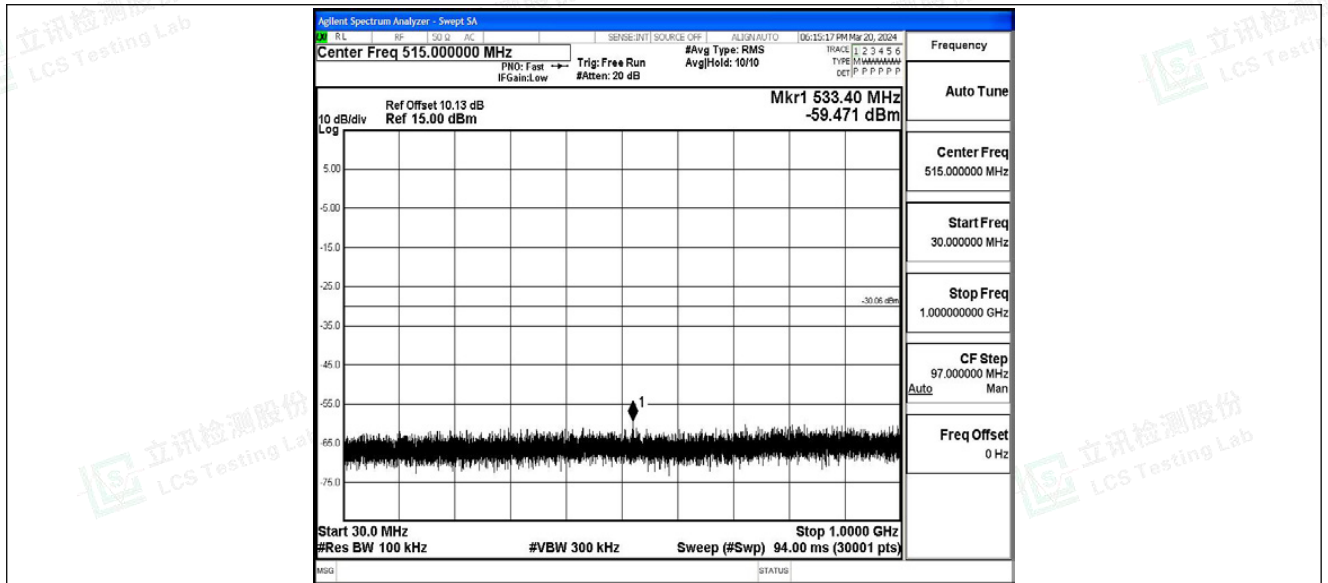


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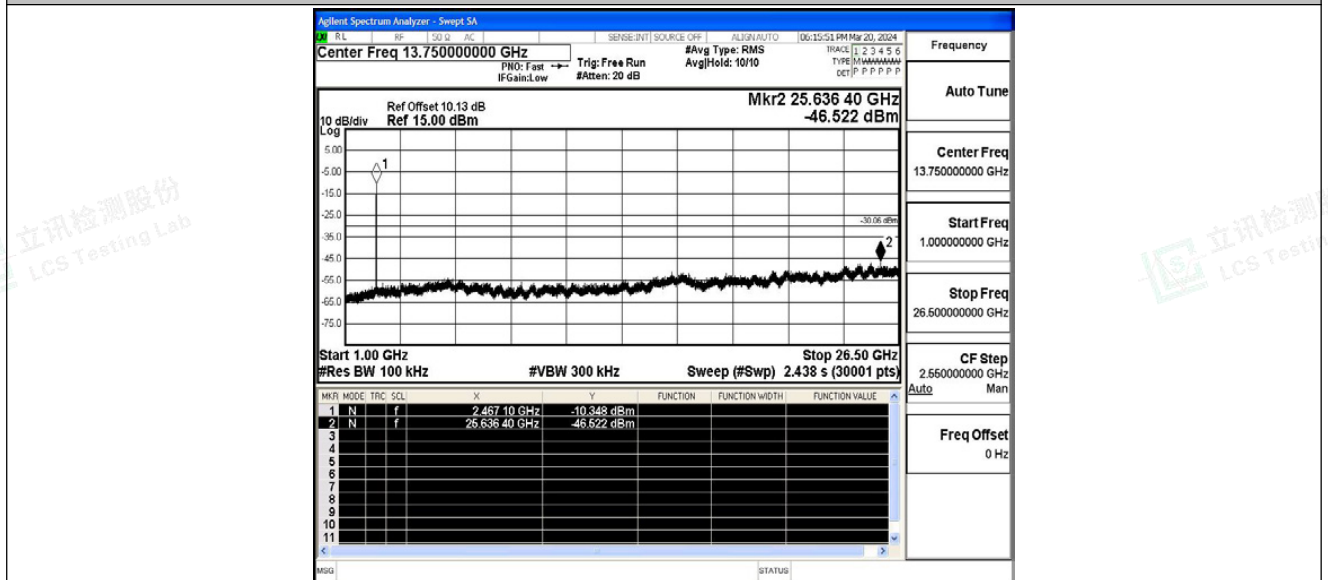
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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

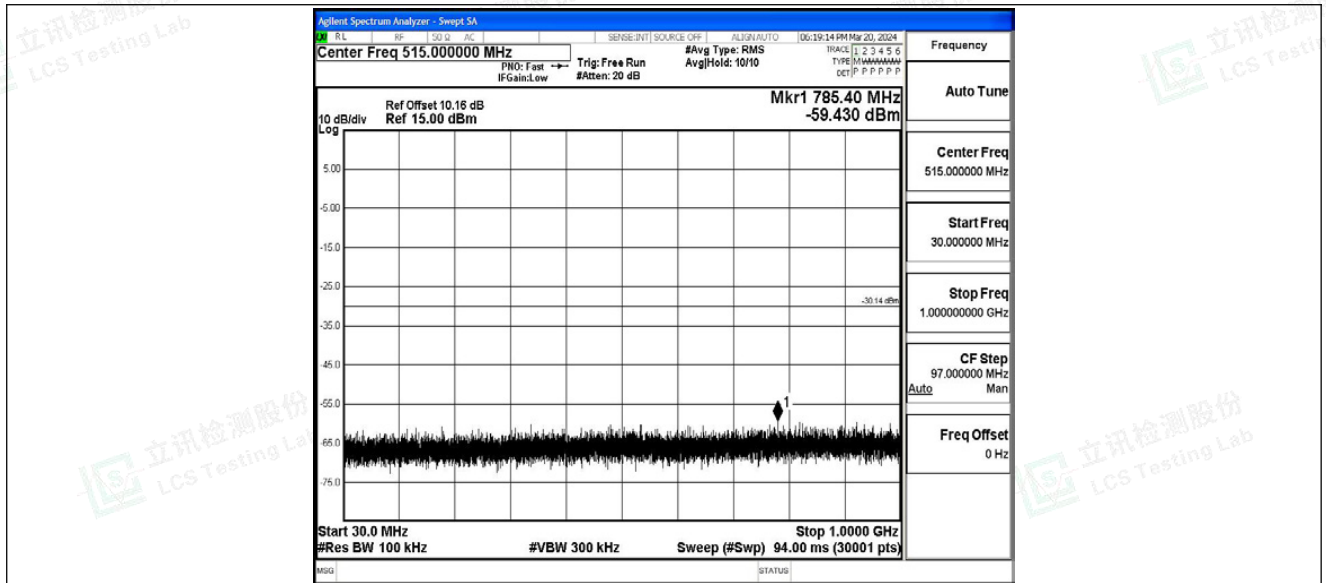


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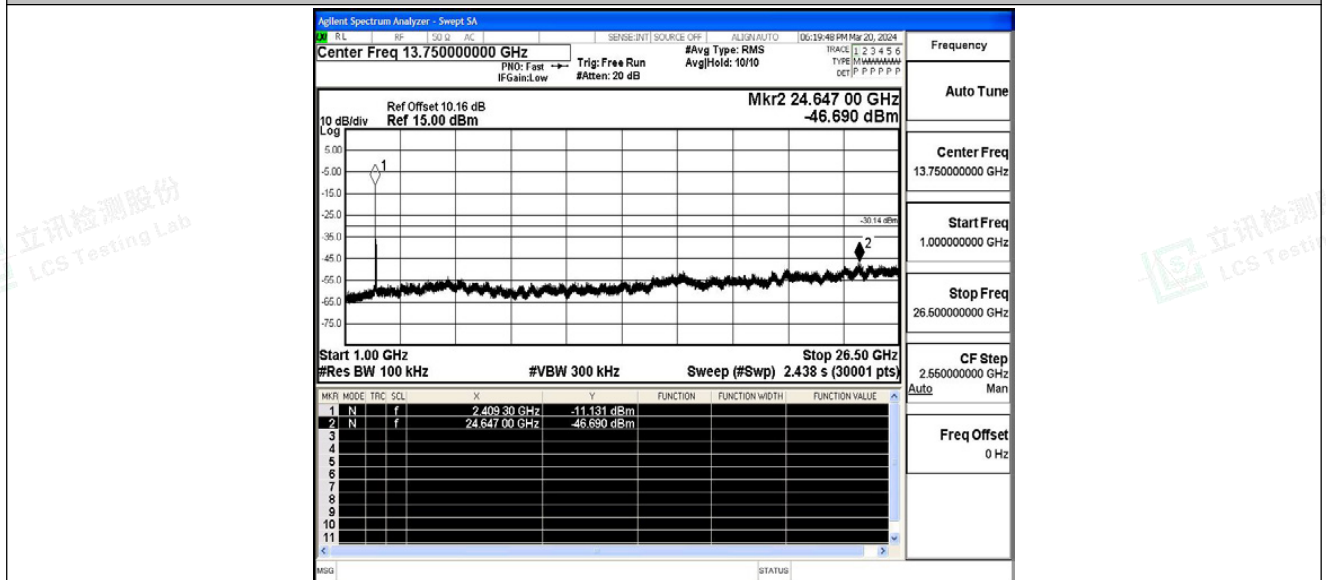
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

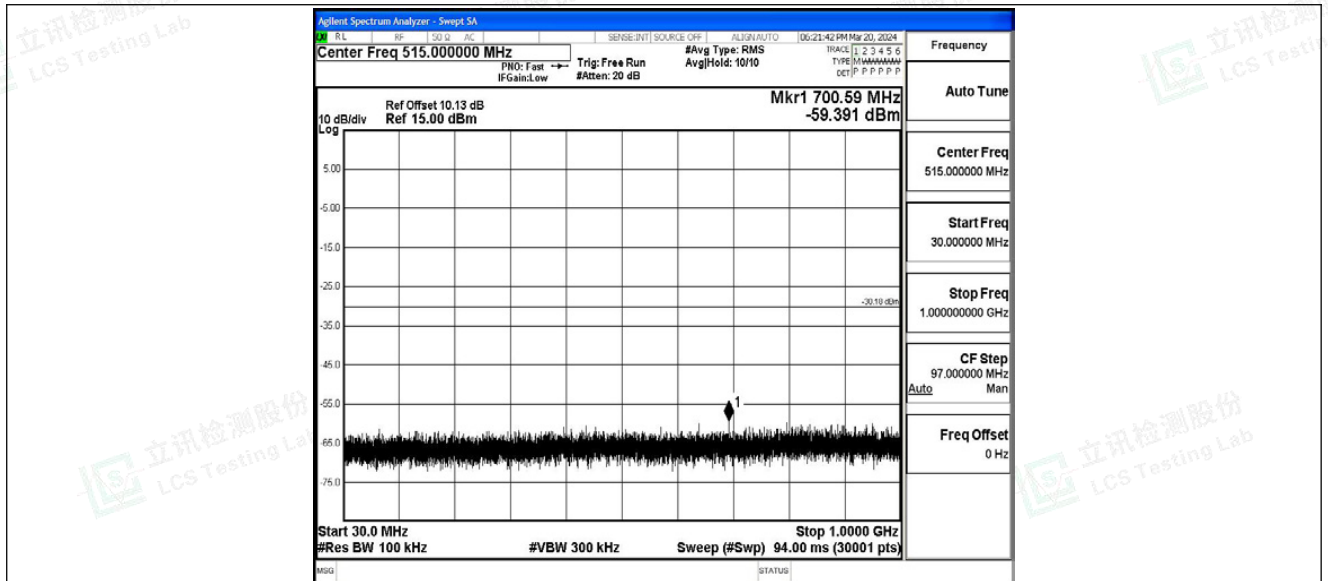


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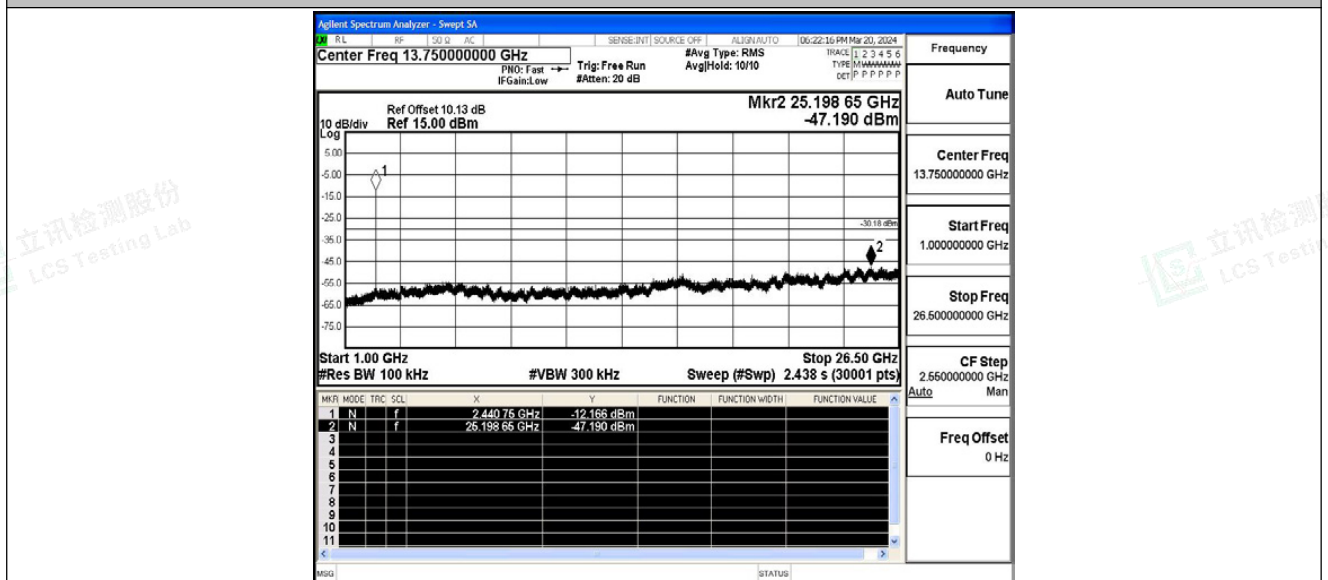
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

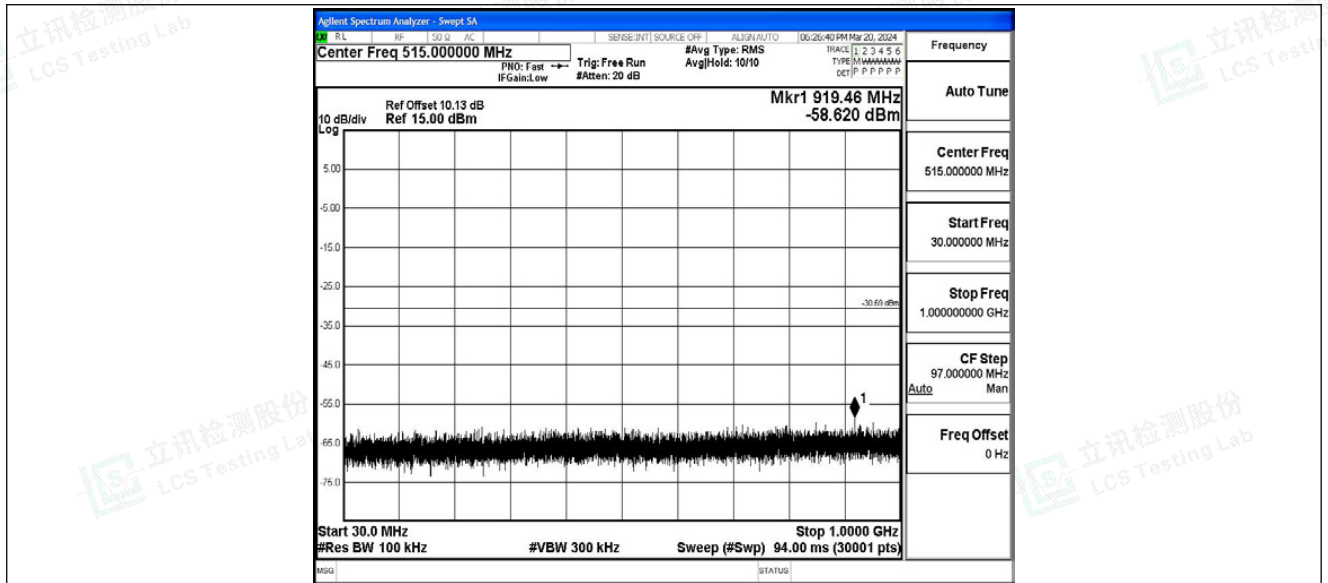


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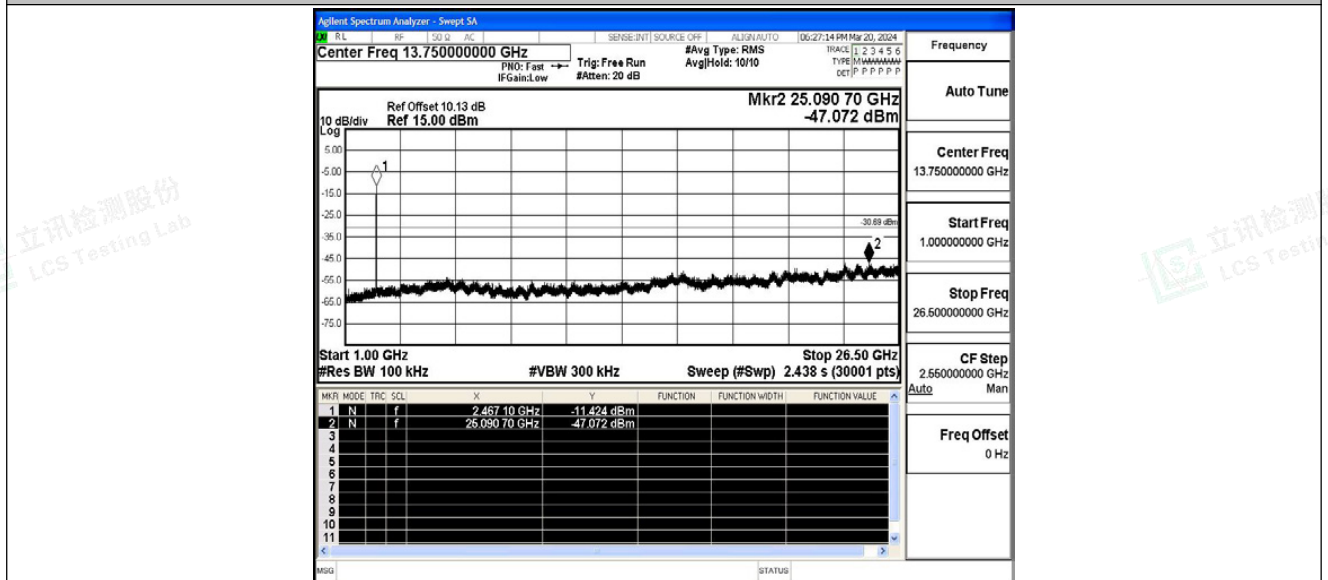
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11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_30~1000

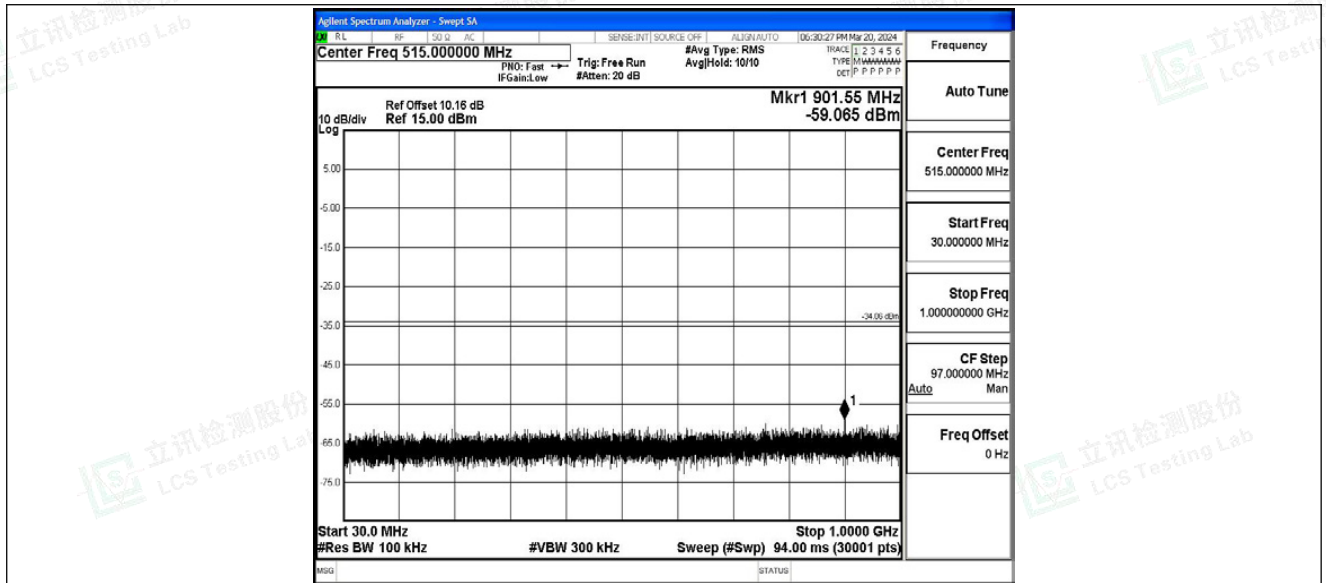


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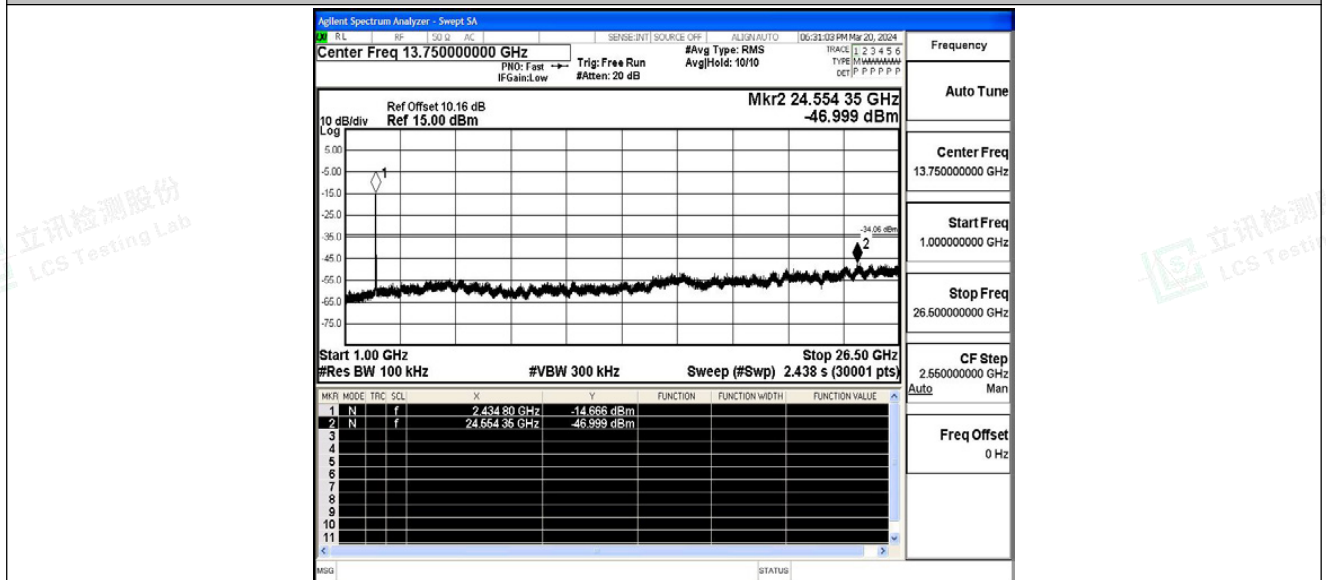
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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000

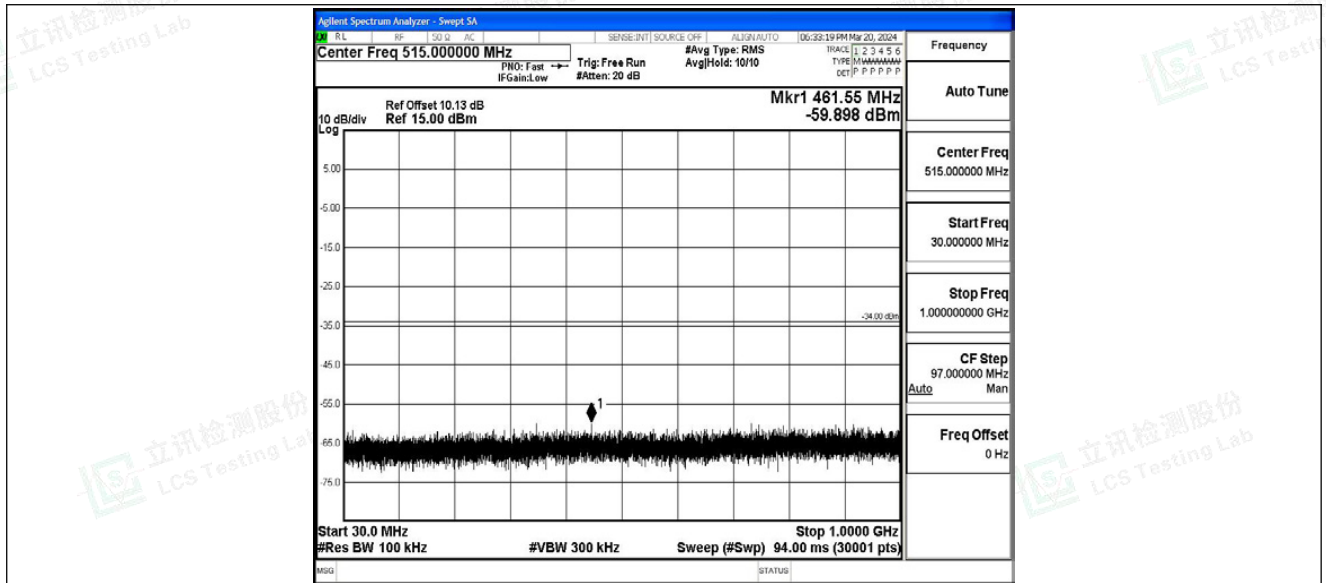


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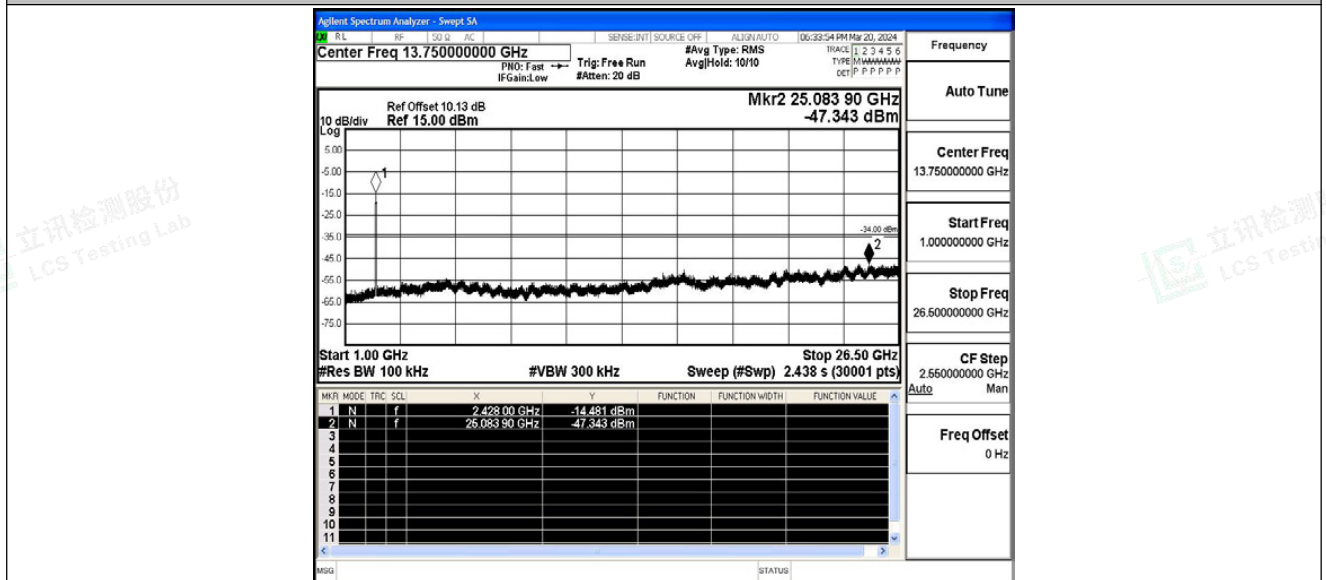
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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000



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