



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: WCDMA digital mobile phone

Test Model: XS15

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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C.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.440	2417.000	0.5	PASS
		2437	9.560	2431.960	2441.520	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	14.760	2430.080	2444.840	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS



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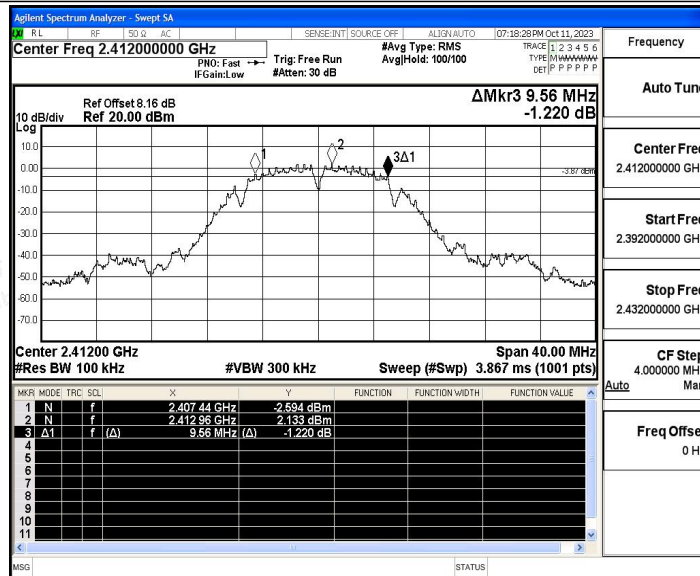
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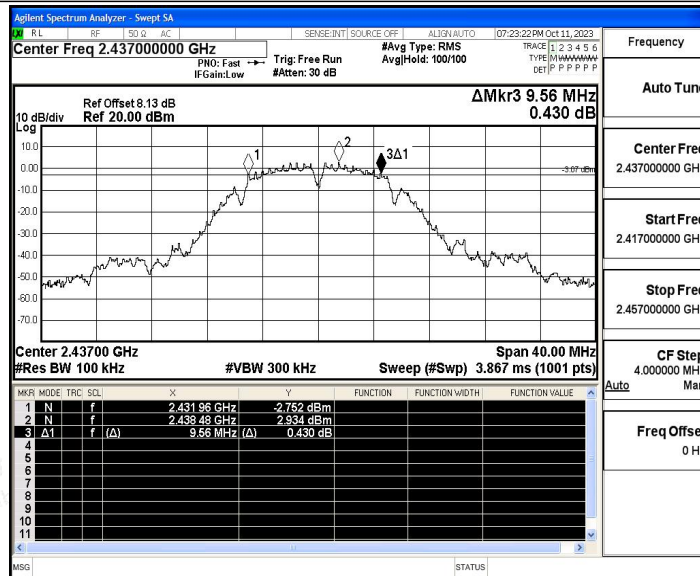


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

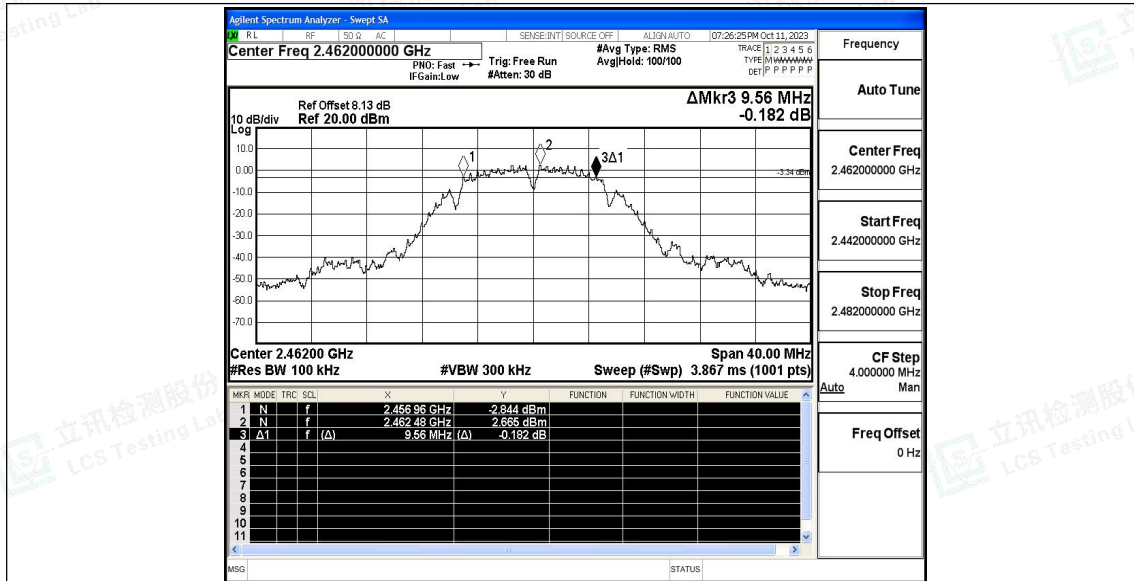


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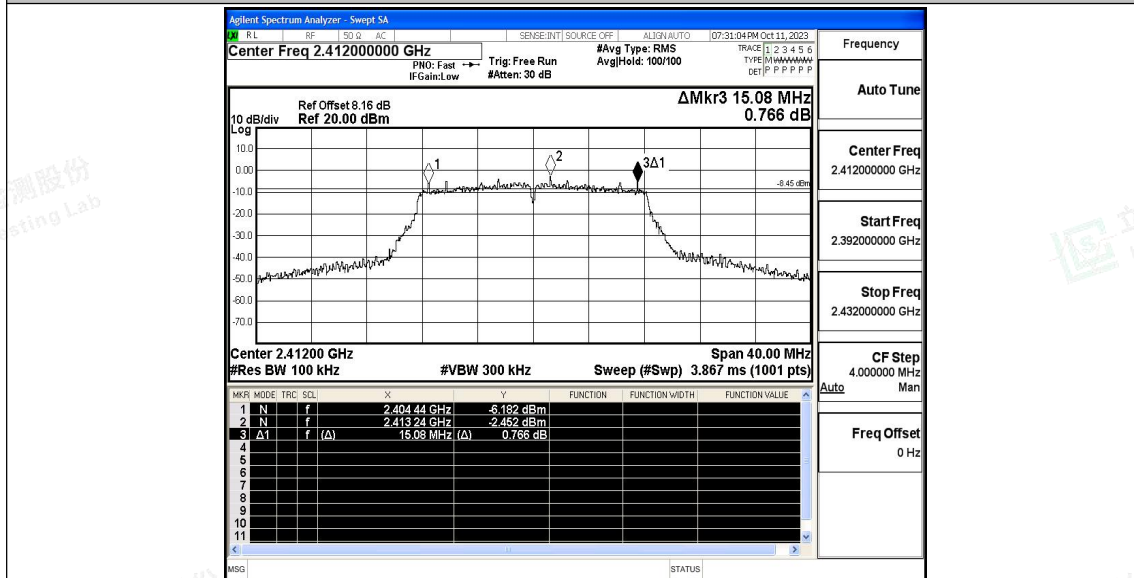
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11G_Ant1_2412



11G_Ant1_2437

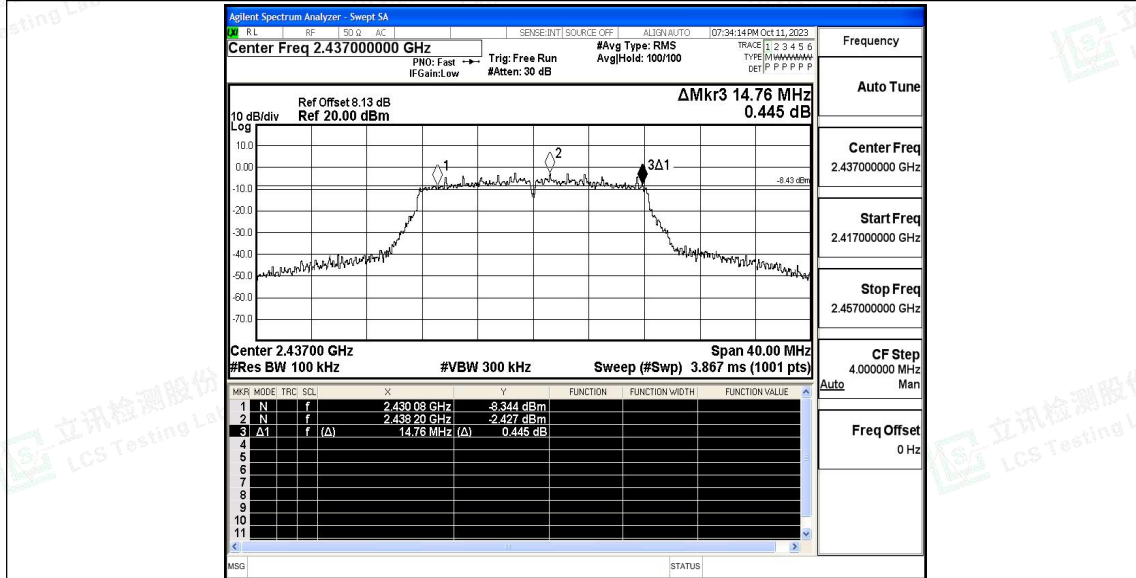


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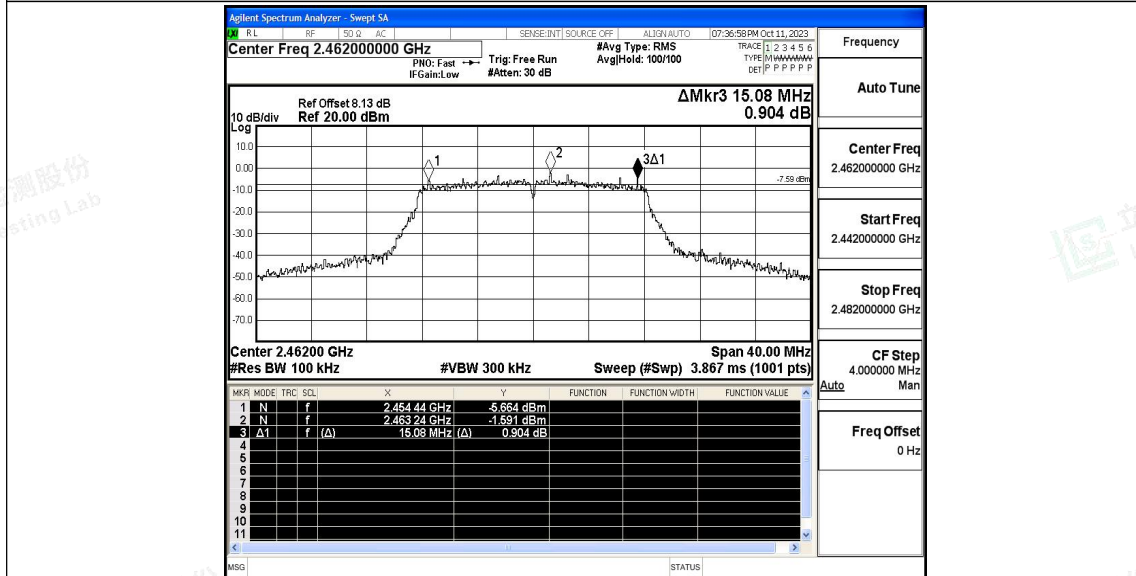
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11G_Ant1_2462



11N20SISO_Ant1_2412

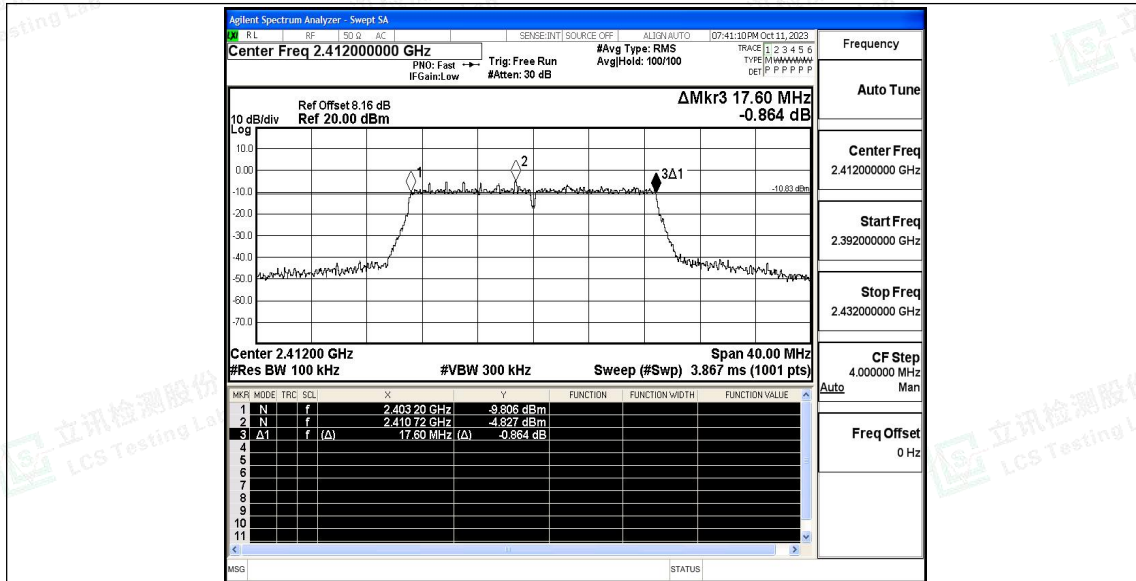


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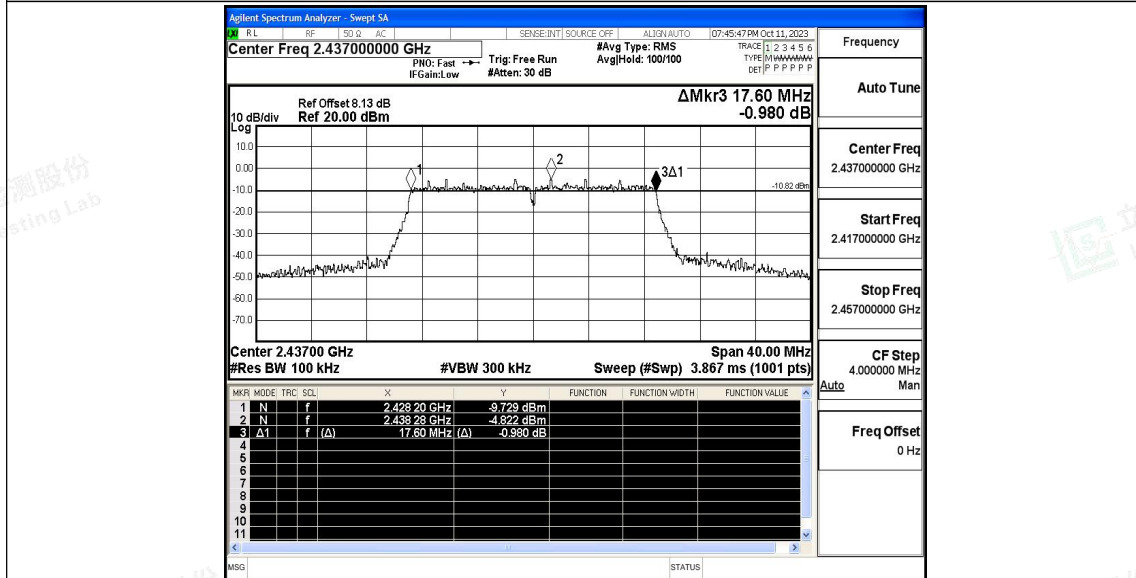
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

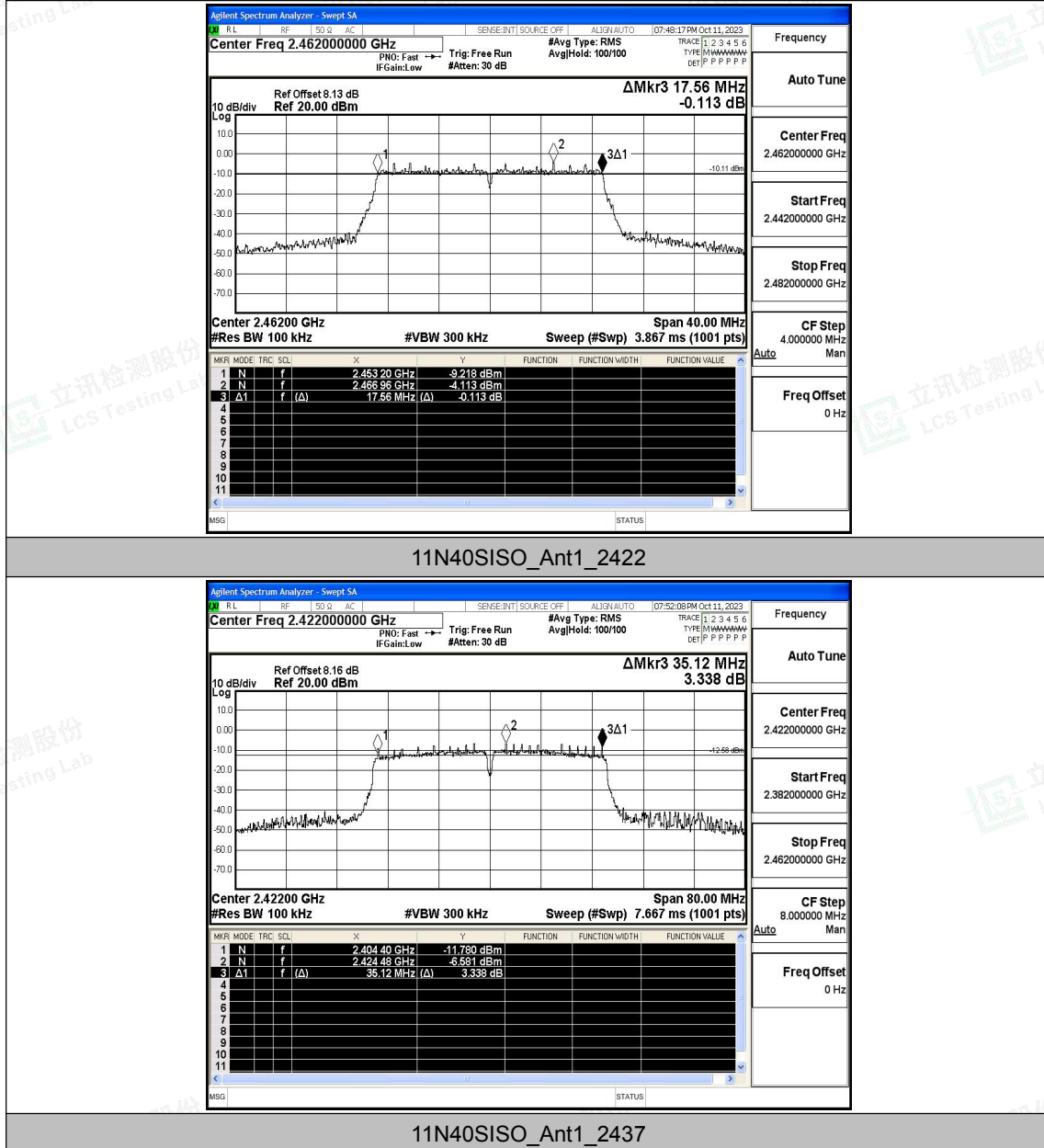


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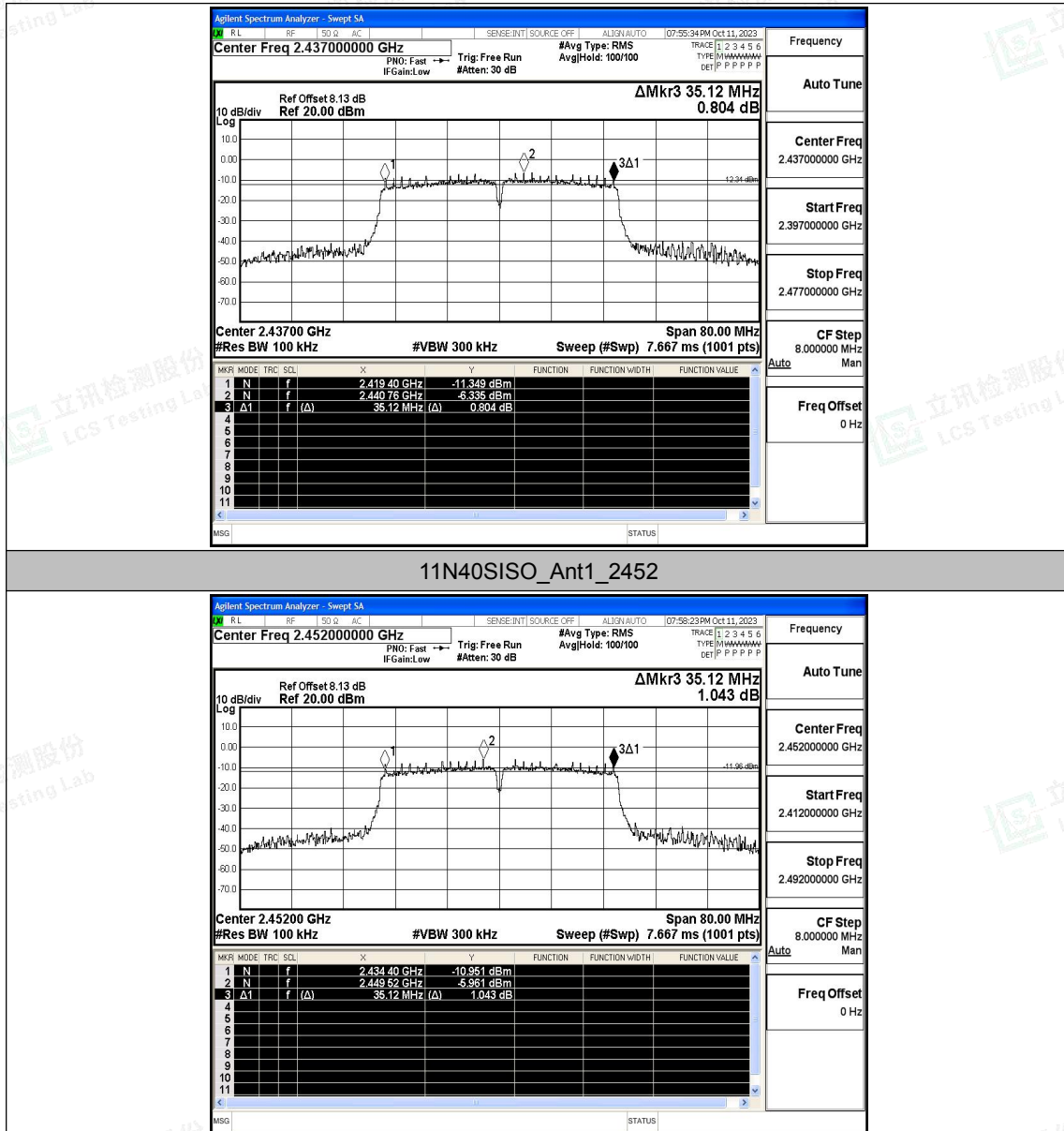


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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.33	≤30.00	PASS
		2437	14.95	≤30.00	PASS
		2462	14.97	≤30.00	PASS
11G	Ant1	2412	13.91	≤30.00	PASS
		2437	14.64	≤30.00	PASS
		2462	14.60	≤30.00	PASS
11N20SISO	Ant1	2412	13.02	≤30.00	PASS
		2437	13.71	≤30.00	PASS
		2462	13.73	≤30.00	PASS
11N40SISO	Ant1	2422	13.55	≤30.00	PASS
		2437	13.72	≤30.00	PASS
		2452	13.89	≤30.00	PASS



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.21	≤8.00	PASS
		2437	-10.94	≤8.00	PASS
		2462	-10.32	≤8.00	PASS
11G	Ant1	2412	-15.75	≤8.00	PASS
		2437	-14.67	≤8.00	PASS
		2462	-16.3	≤8.00	PASS
11N20SISO	Ant1	2412	-18.84	≤8.00	PASS
		2437	-17.69	≤8.00	PASS
		2462	-18.15	≤8.00	PASS
11N40SISO	Ant1	2422	-19.82	≤8.00	PASS
		2437	-19.21	≤8.00	PASS
		2452	-20.35	≤8.00	PASS



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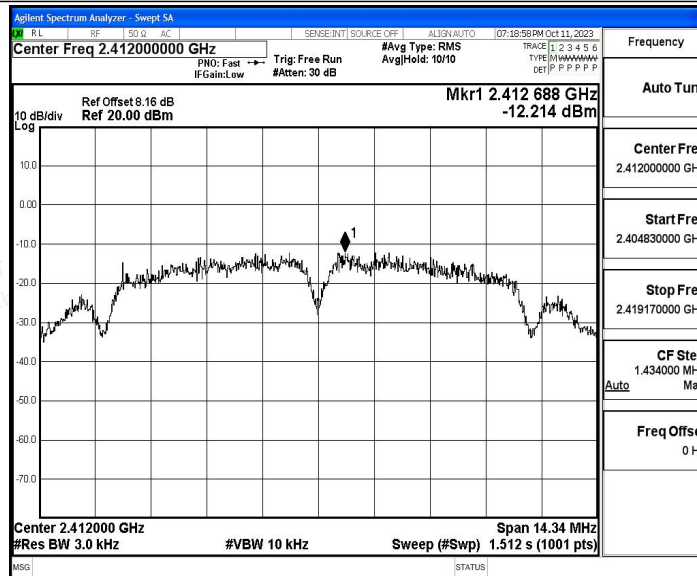
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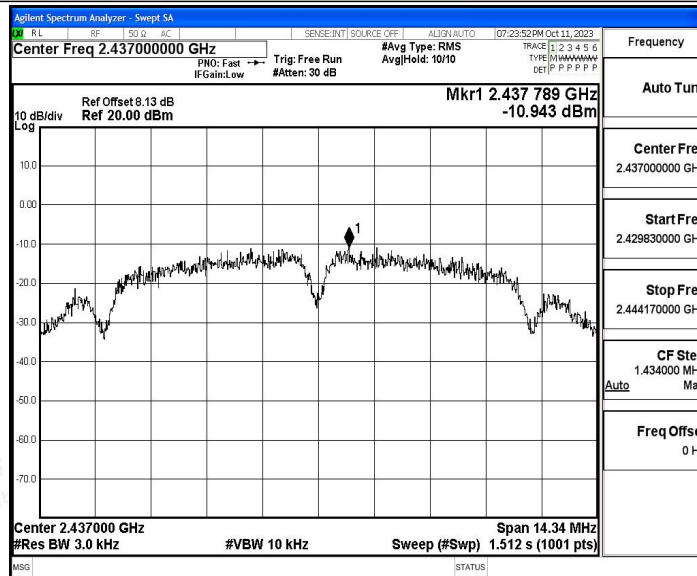


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

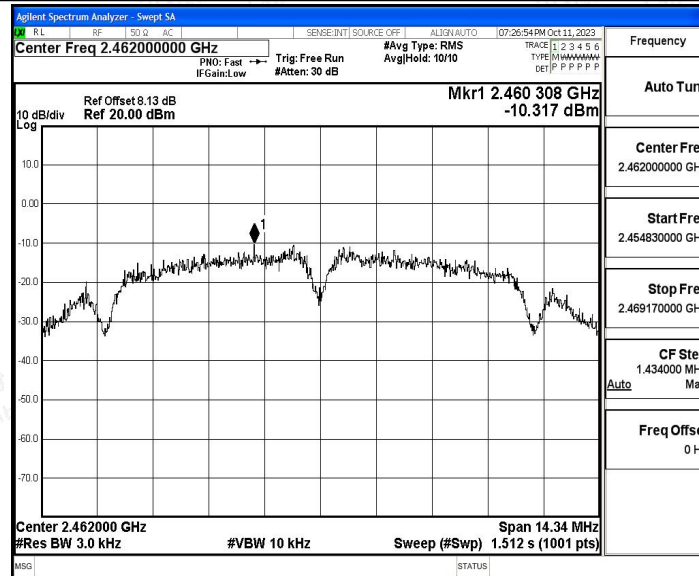


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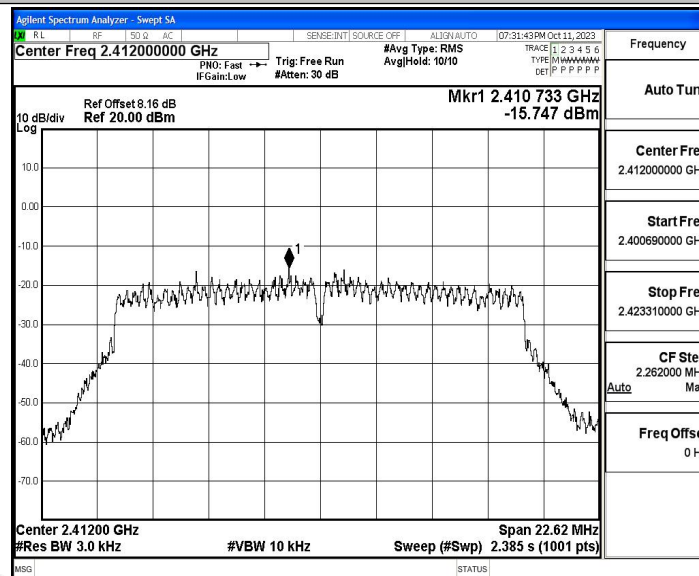
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11G_Ant1_2412



11G_Ant1_2437

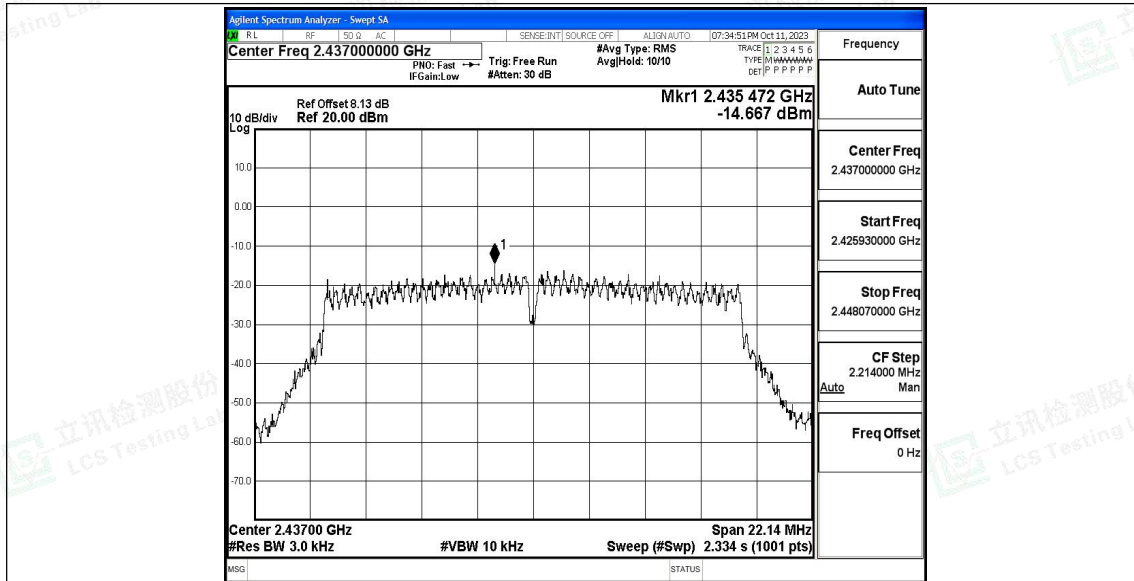


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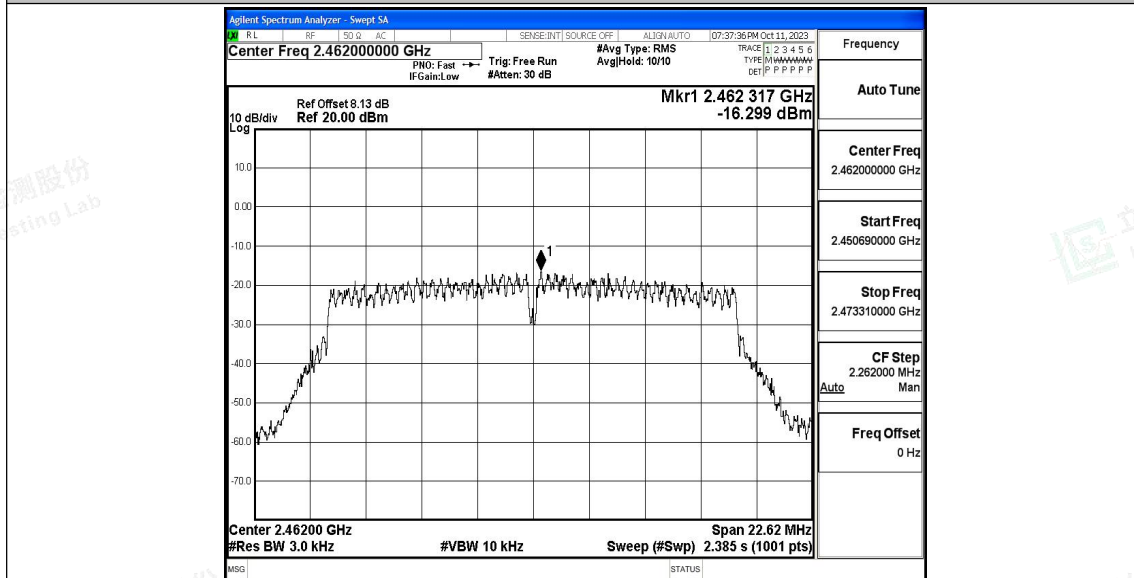
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11G_Ant1_2462



11N20SISO_Ant1_2412

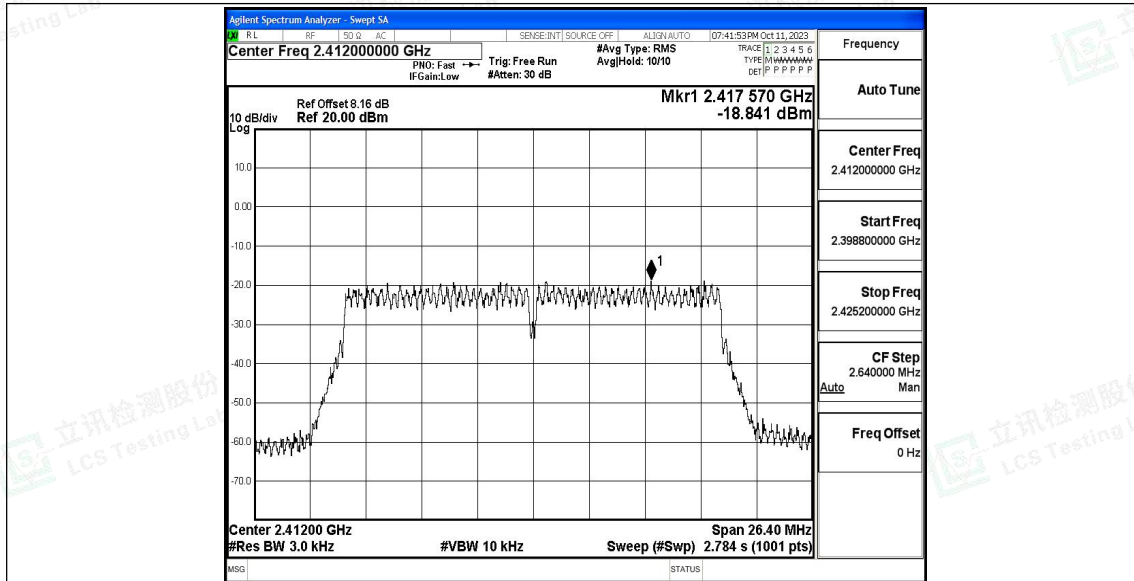


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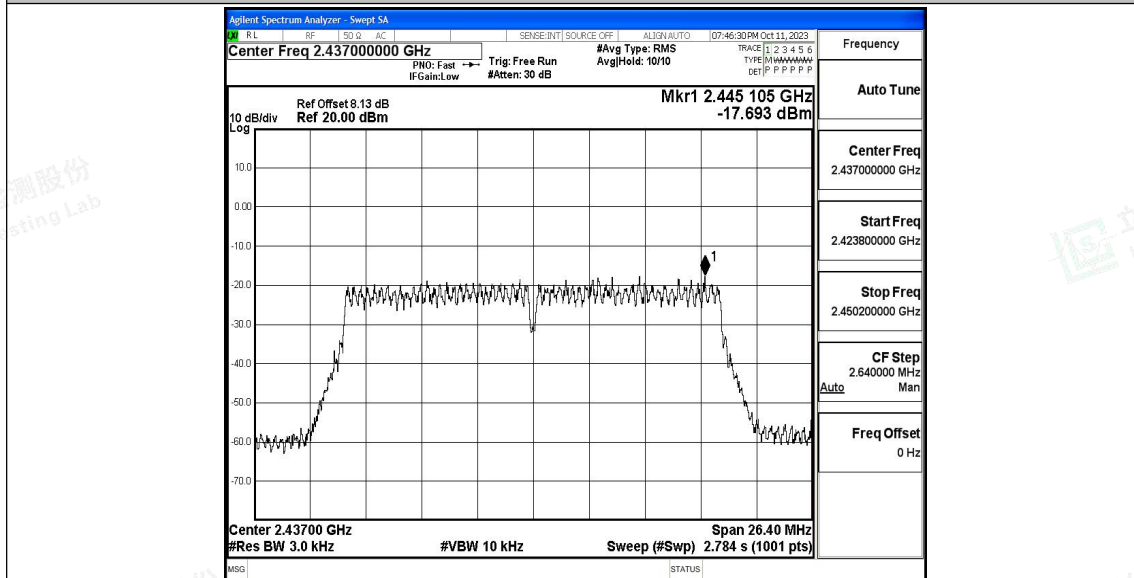
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

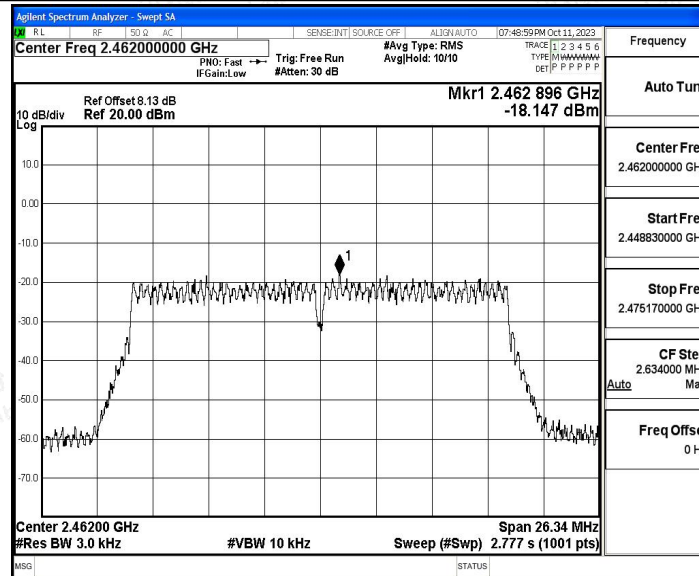


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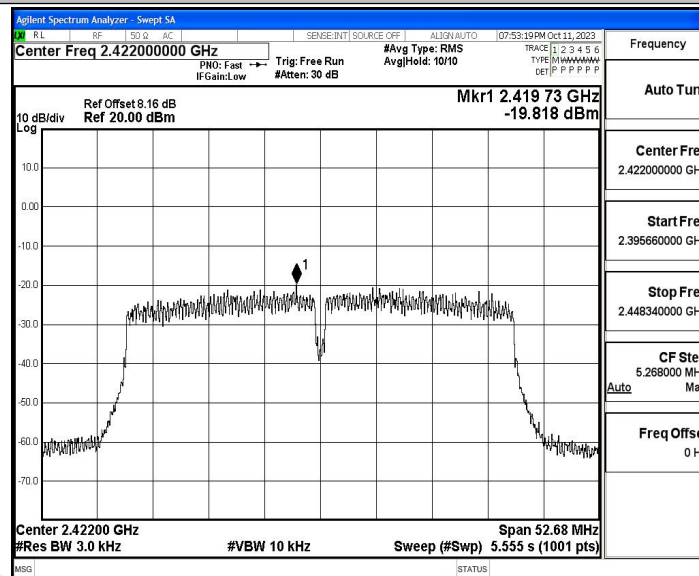
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

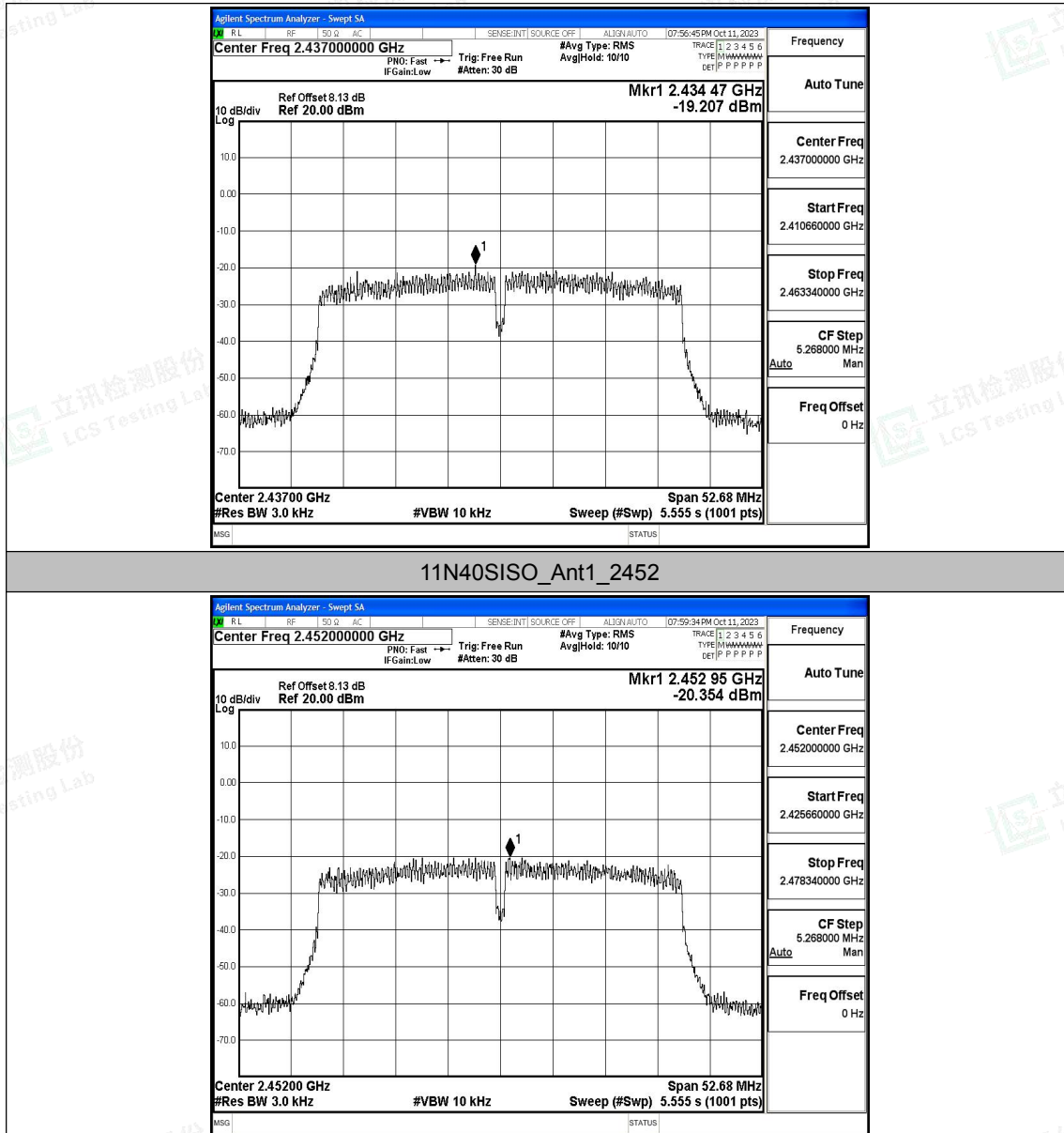


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C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.11	-39.14	≤ -17.89	PASS
		High	2462	3.35	-49.44	≤ -16.65	PASS
11G	Ant1	Low	2412	-2.10	-39.94	≤ -22.1	PASS
		High	2462	-2.30	-48.89	≤ -22.3	PASS
11N20SISO	Ant1	Low	2412	-4.64	-43.57	≤ -24.64	PASS
		High	2462	-4.36	-48.56	≤ -24.36	PASS
11N40SISO	Ant1	Low	2422	-6.54	-41.69	≤ -26.54	PASS
		High	2452	-5.99	-42.12	≤ -25.99	PASS



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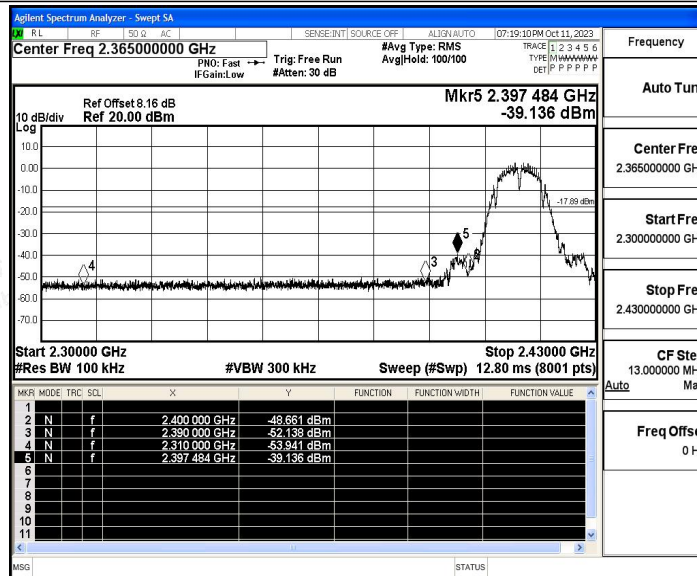
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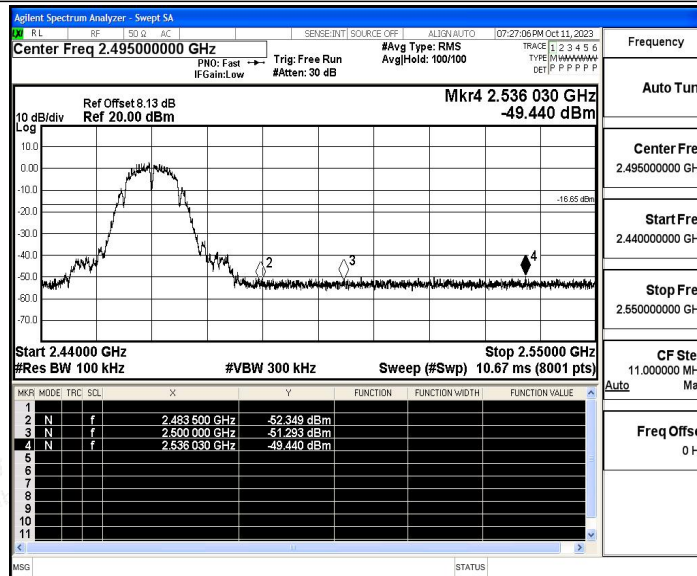


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

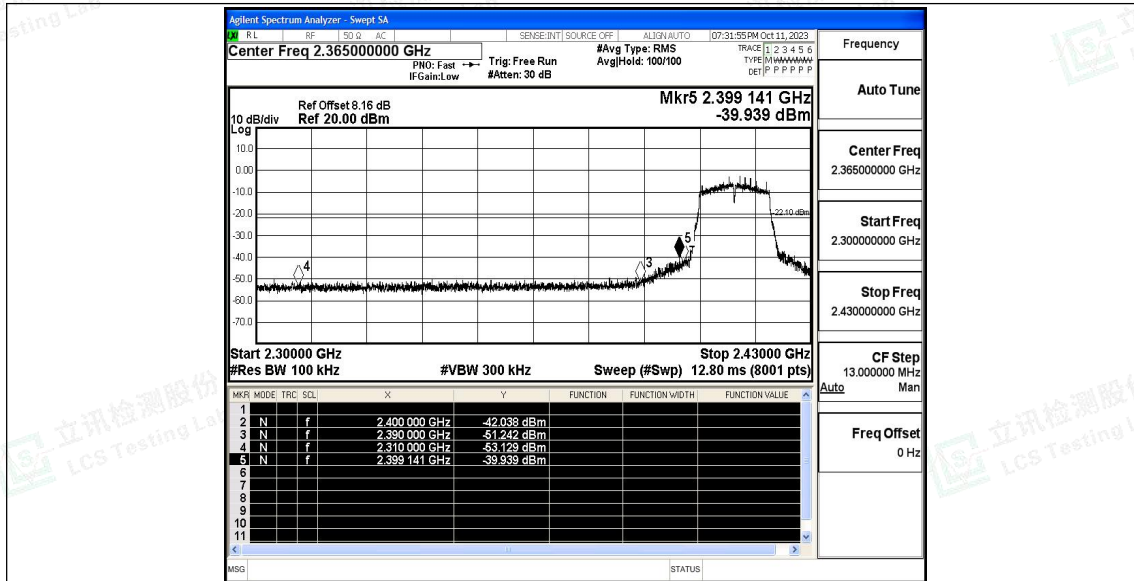


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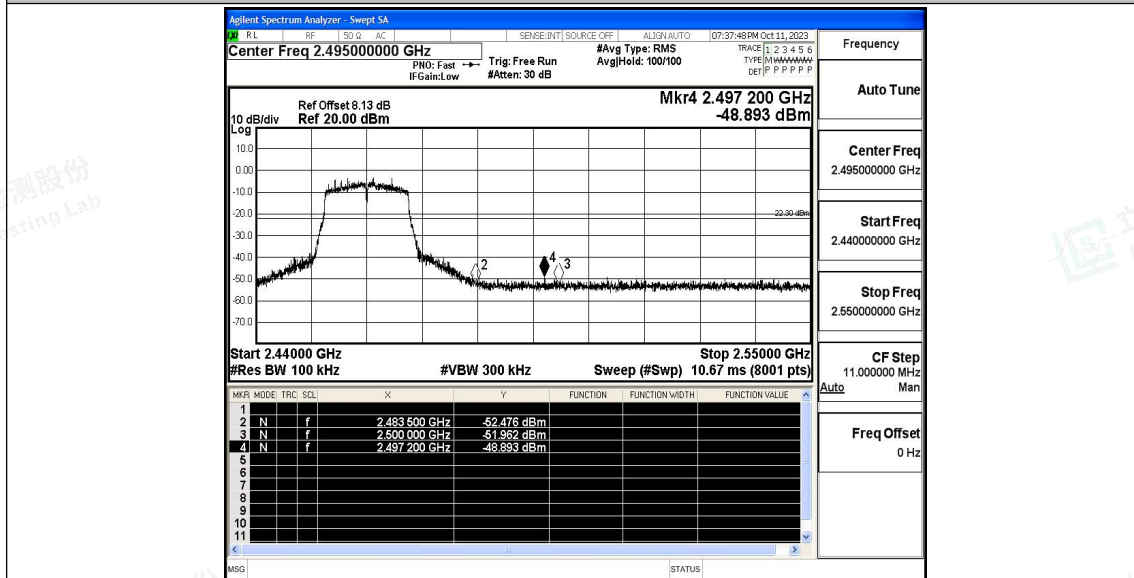
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

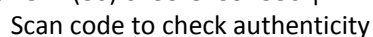
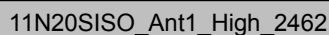


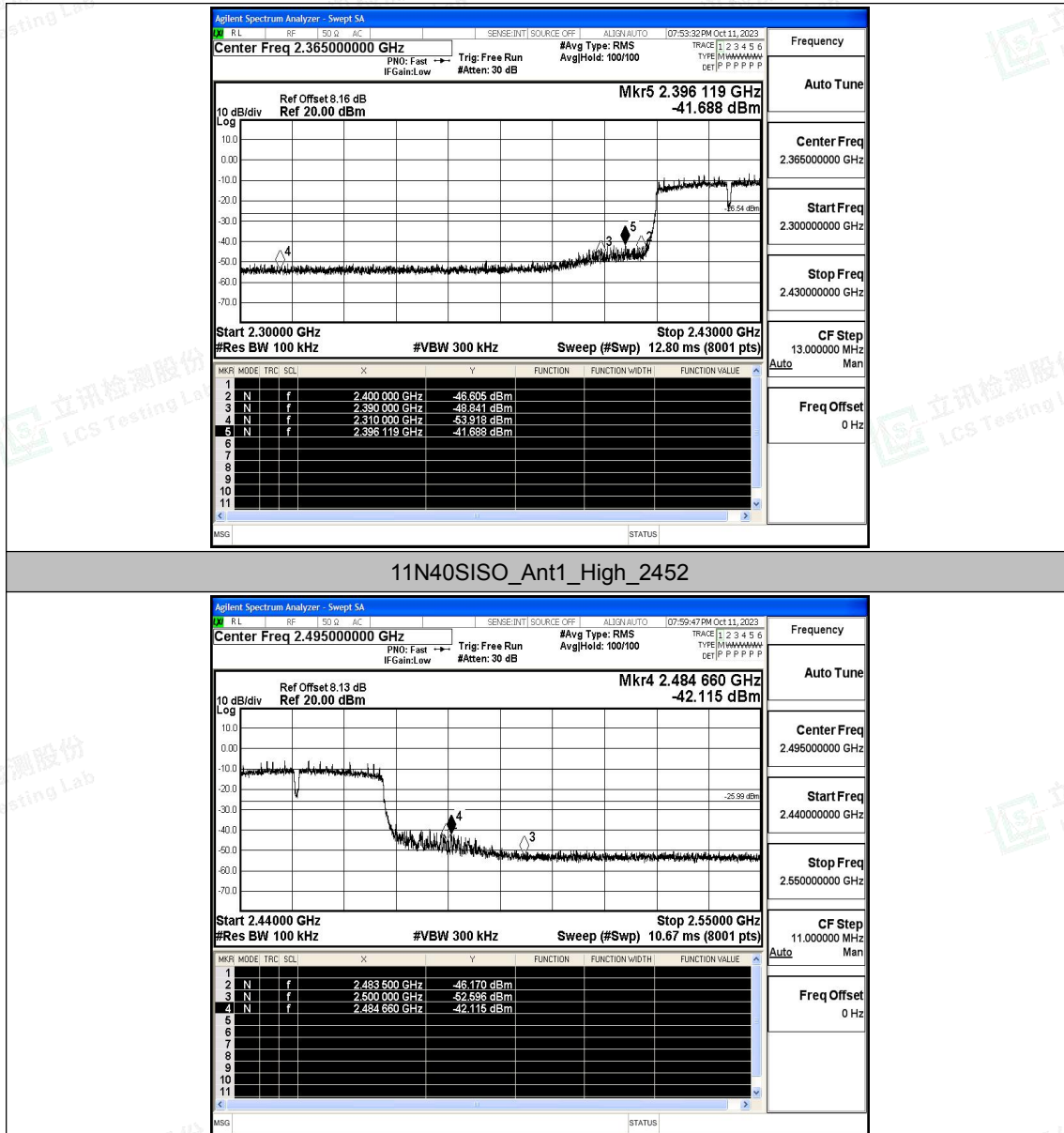
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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	2.11	-61.59	≤-17.89	PASS
			1000~26500	2.11	-49.4	≤-17.89	PASS
		2437	30~1000	3.07	-61.49	≤-16.93	PASS
			1000~26500	3.07	-49.12	≤-16.93	PASS
		2462	30~1000	3.35	-61.55	≤-16.65	PASS
			1000~26500	3.35	-49.07	≤-16.65	PASS
11G	Ant1	2412	30~1000	-2.10	-61.71	≤-22.1	PASS
			1000~26500	-2.10	-49.52	≤-22.1	PASS
		2437	30~1000	-1.63	-61.5	≤-21.63	PASS
			1000~26500	-1.63	-47.71	≤-21.63	PASS
		2462	30~1000	-2.30	-61.32	≤-22.3	PASS
			1000~26500	-2.30	-48.98	≤-22.3	PASS
11N20SISO	Ant1	2412	30~1000	-4.64	-60.9	≤-24.64	PASS
			1000~26500	-4.64	-48.7	≤-24.64	PASS
		2437	30~1000	-3.85	-61.48	≤-23.85	PASS
			1000~26500	-3.85	-49.07	≤-23.85	PASS
		2462	30~1000	-4.36	-60.82	≤-24.36	PASS
			1000~26500	-4.36	-45.41	≤-24.36	PASS
11N40SISO	Ant1	2422	30~1000	-6.54	-60.74	≤-26.54	PASS
			1000~26500	-6.54	-49.13	≤-26.54	PASS
		2437	30~1000	-6.09	-61.19	≤-26.09	PASS
			1000~26500	-6.09	-49.28	≤-26.09	PASS
		2452	30~1000	-5.99	-61.42	≤-25.99	PASS
			1000~26500	-5.99	-48.91	≤-25.99	PASS



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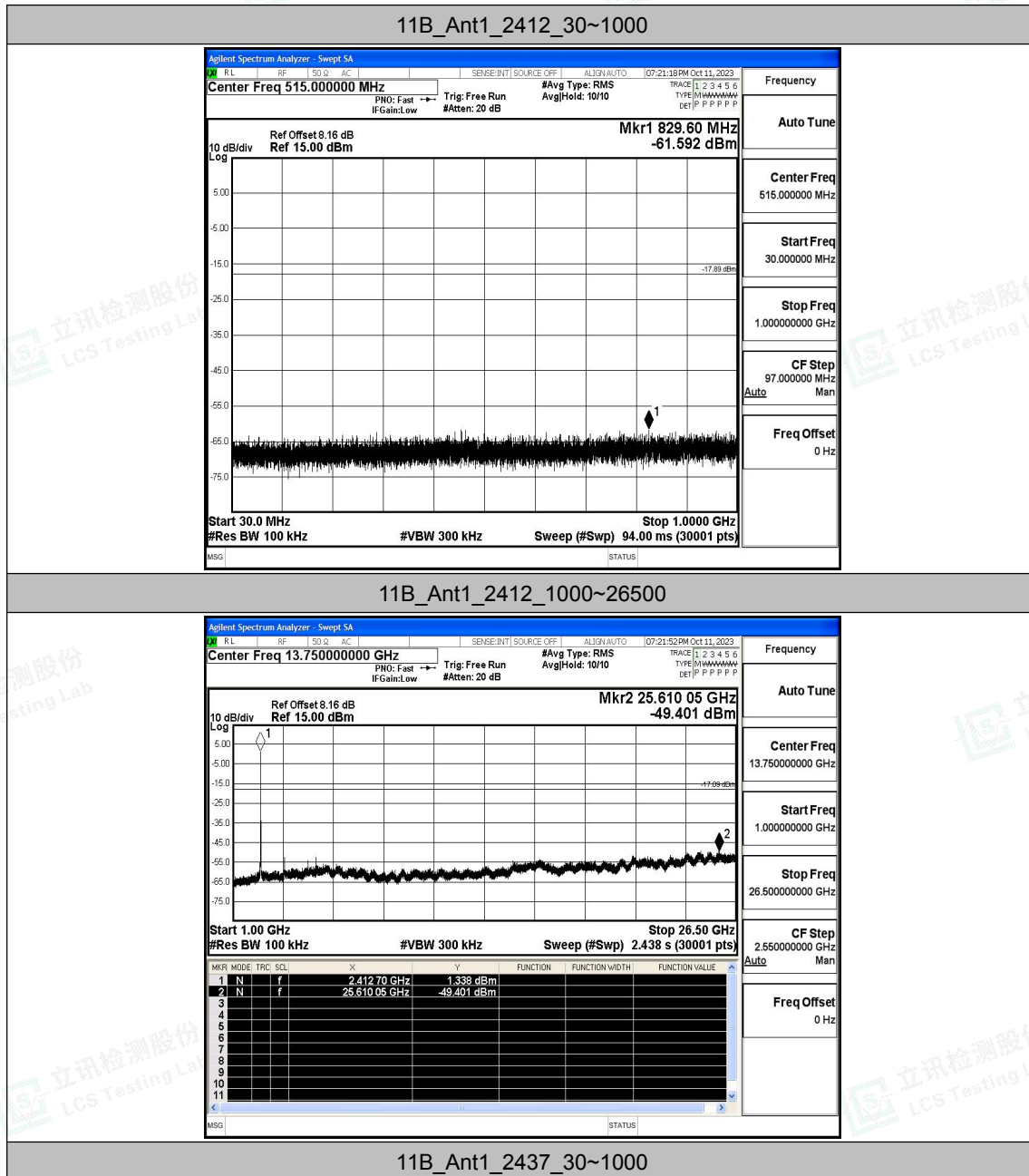
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Test Graphs

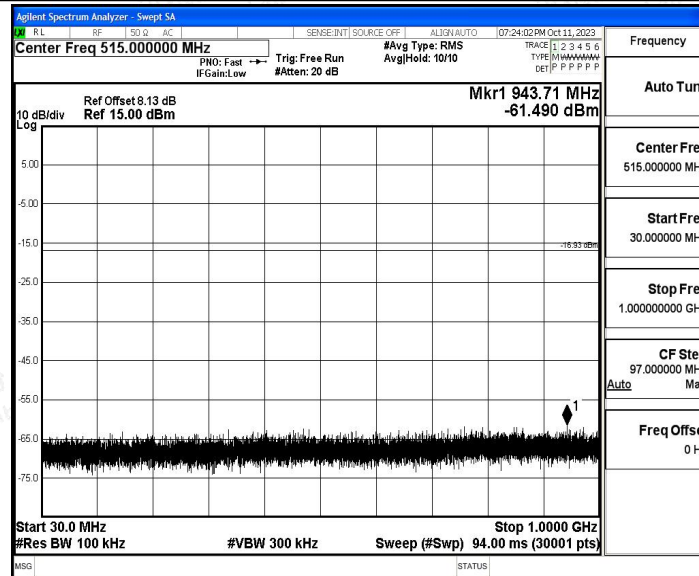


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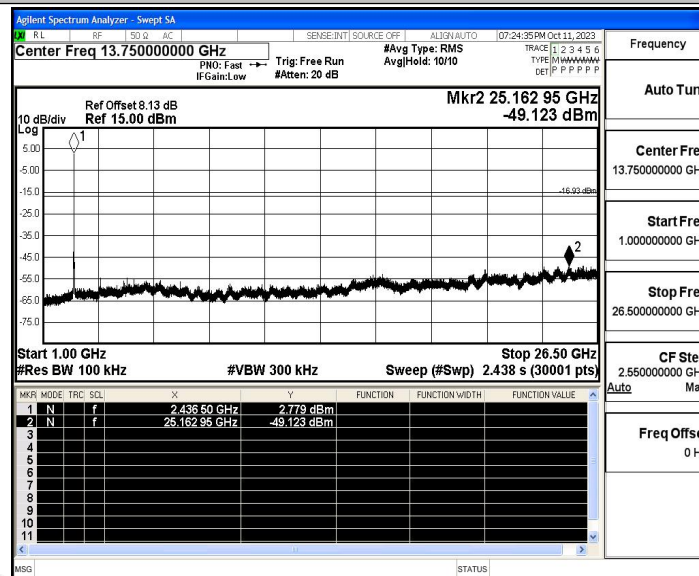
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000



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