

Appendix Test Data

Report No.:	18220WC20263803	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	≥0.5	PASS
		2437	10.040	2431.960	2442.000	≥0.5	PASS
		2462	10.080	2456.960	2467.040	≥0.5	PASS
11G	Ant1	2412	14.760	2404.760	2419.520	≥0.5	PASS
		2437	15.320	2429.440	2444.760	≥0.5	PASS
		2462	13.520	2456.000	2469.520	≥0.5	PASS
11N20	Ant1	2412	15.080	2404.480	2419.560	≥0.5	PASS
		2437	15.040	2429.480	2444.520	≥0.5	PASS
		2462	13.000	2456.520	2469.520	≥0.5	PASS
11N40	Ant1	2422	35.160	2404.420	2439.580	≥0.5	PASS
		2437	34.980	2419.480	2454.460	≥0.5	PASS
		2452	35.100	2434.480	2469.580	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412

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11N20_Ant1_2437



11N20_Ant1_2462





11N40_Ant1_2422



11N40_Ant1_2437





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	13.453	2405.2876	2418.7406
		2437	13.458	2430.2986	2443.7566
		2462	13.456	2455.3250	2468.7810
11G	Ant1	2412	16.926	2403.5571	2420.4831
		2437	16.868	2428.5930	2445.4610
		2462	16.911	2453.5893	2470.5003
11N20	Ant1	2412	17.914	2403.0720	2420.9860
		2437	18.019	2427.9693	2445.9883
		2462	17.919	2453.0758	2470.9948
11N40	Ant1	2422	36.023	2404.0578	2440.0808
		2437	36.011	2419.0459	2455.0569
		2452	35.999	2434.0773	2470.0763



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



11N20_Ant1_2412

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11N20_Ant1_2437



11N20_Ant1_2462

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11N40_Ant1_2422



11N40_Ant1_2437



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.65	≤30.00
		2437	18.58	≤30.00
		2462	18.41	≤30.00
11G	Ant1	2412	22.68	≤30.00
		2437	22.60	≤30.00
		2462	22.51	≤30.00
11N20	Ant1	2412	22.64	≤30.00
		2437	22.46	≤30.00
		2462	22.42	≤30.00
11N40	Ant1	2422	18.77	≤30.00
		2437	20.46	≤30.00
		2452	18.74	≤30.00



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.65	≤8.00	PASS
		2437	-7.59	≤8.00	PASS
		2462	-7.16	≤8.00	PASS
11G	Ant1	2412	-9.05	≤8.00	PASS
		2437	-9.18	≤8.00	PASS
		2462	-8.47	≤8.00	PASS
11N20	Ant1	2412	-7.62	≤8.00	PASS
		2437	-9.45	≤8.00	PASS
		2462	-9.92	≤8.00	PASS
11N40	Ant1	2422	-13.6	≤8.00	PASS
		2437	-12.16	≤8.00	PASS
		2452	-14	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

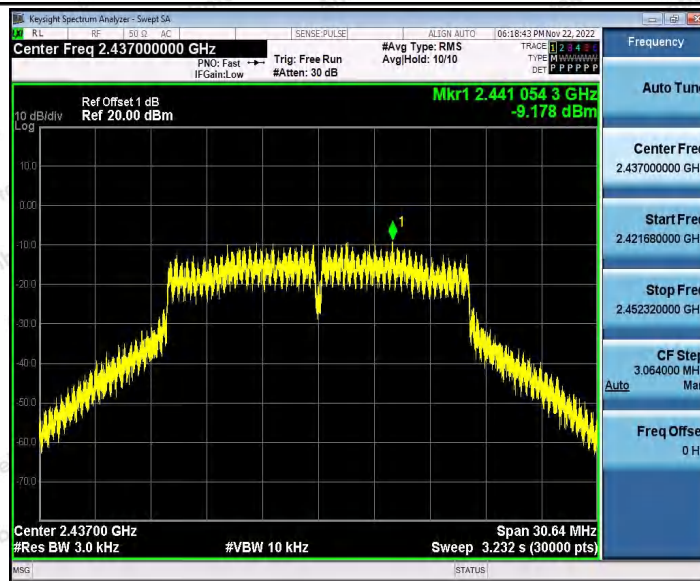
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11G_Ant1_2462



11N20_Ant1_2412

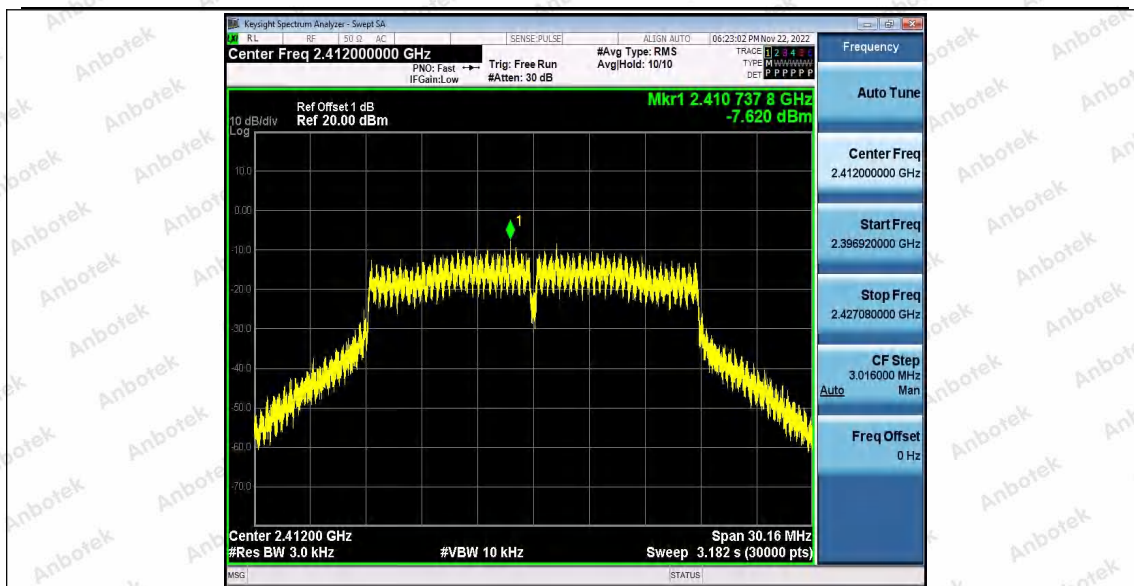
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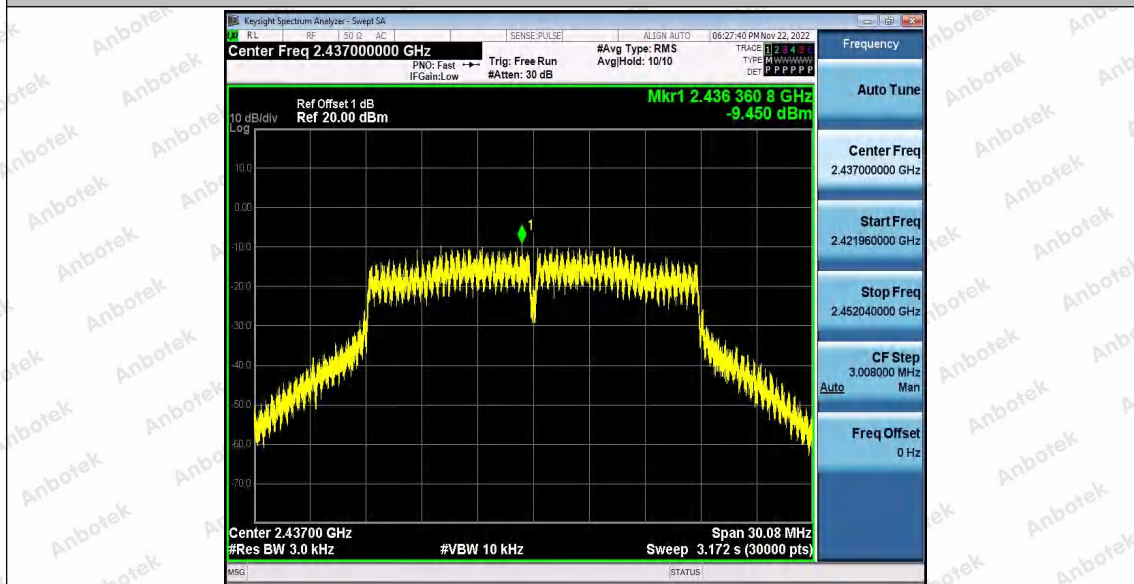


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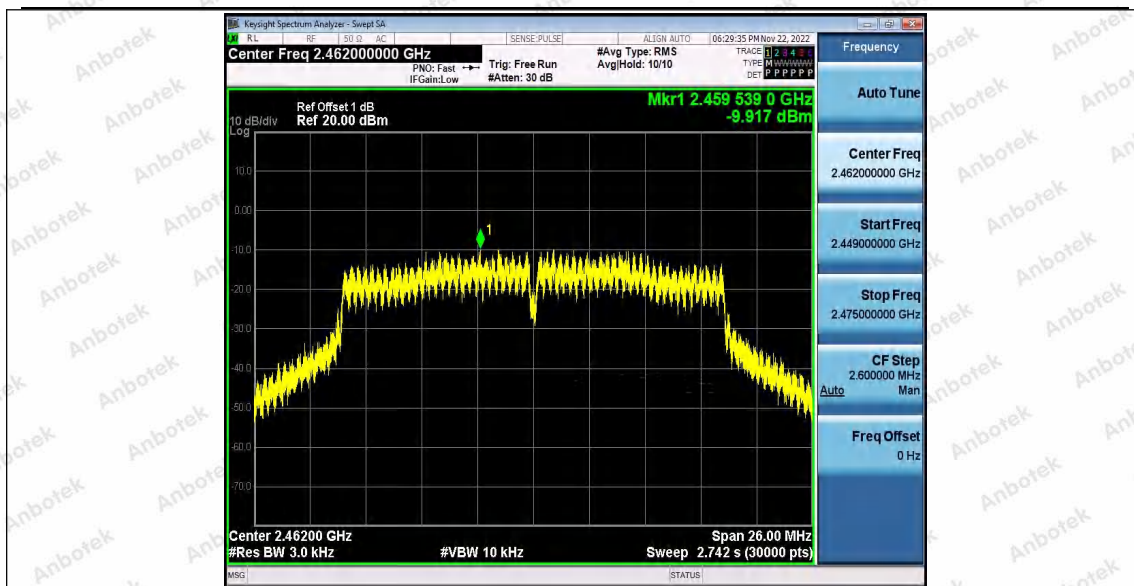


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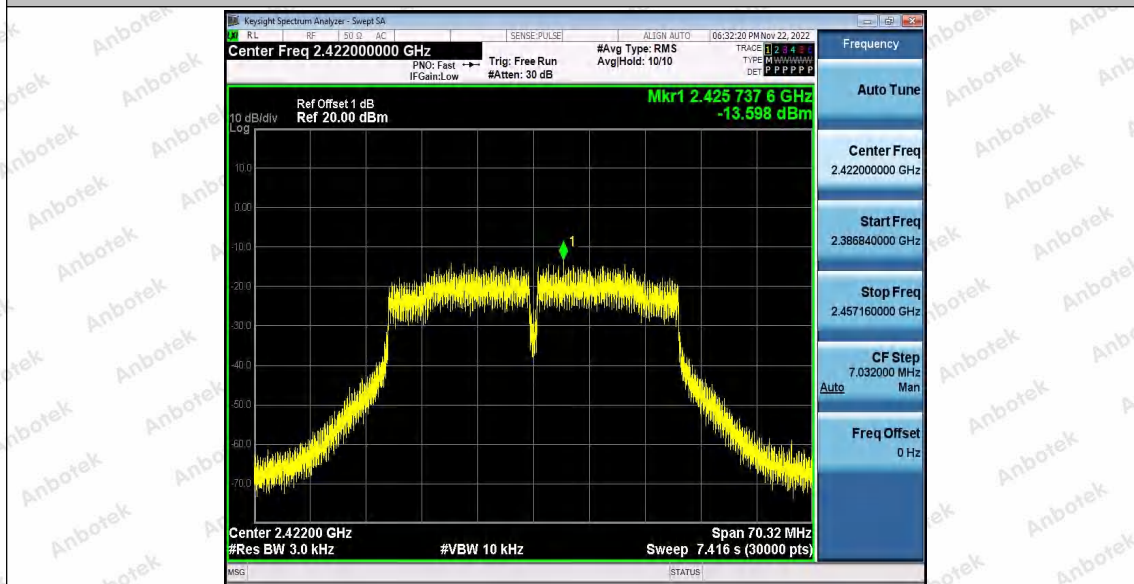


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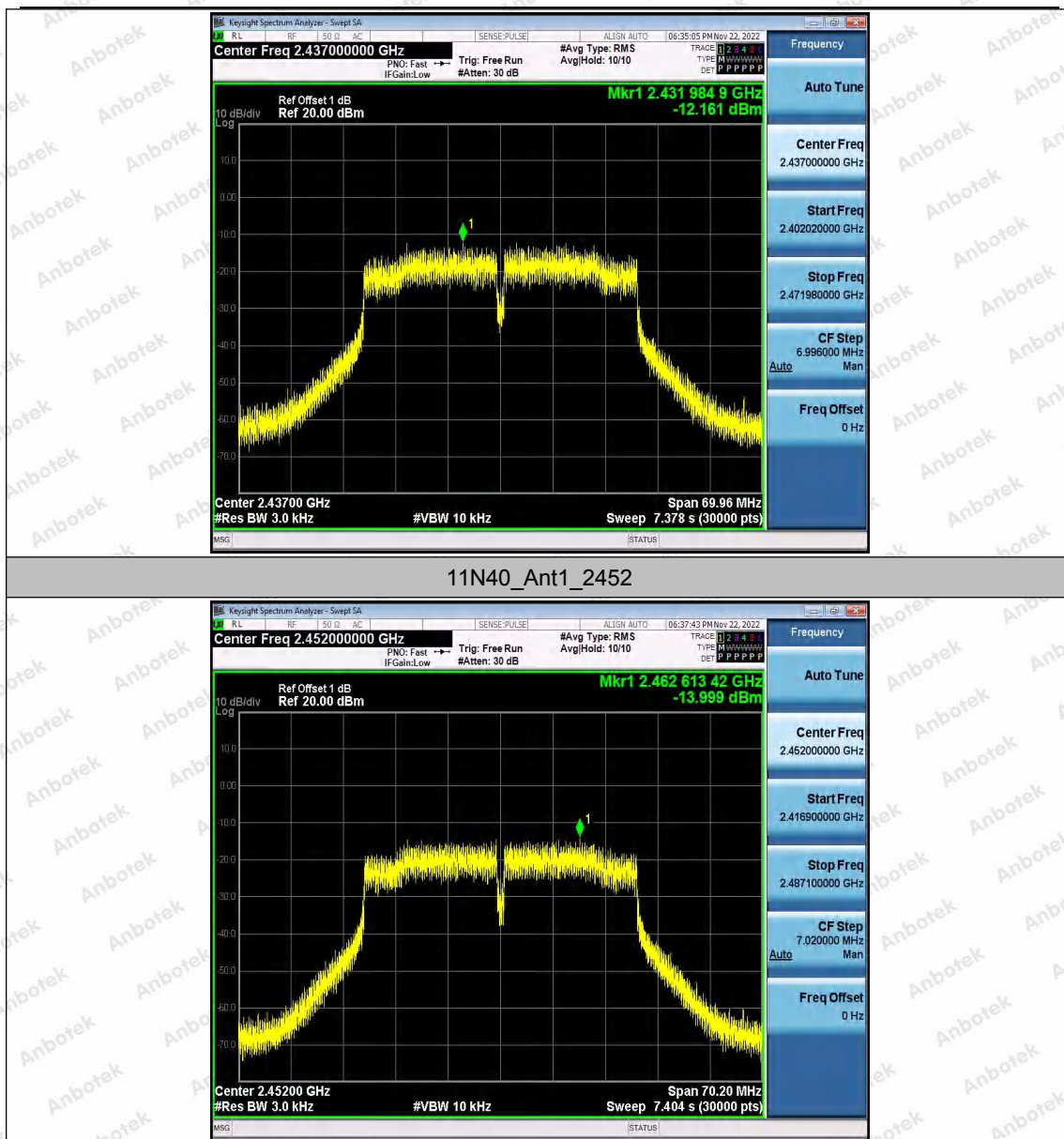


11N40_Ant1_2422



11N40_Ant1_2437





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Appendix E: Band edge measurements

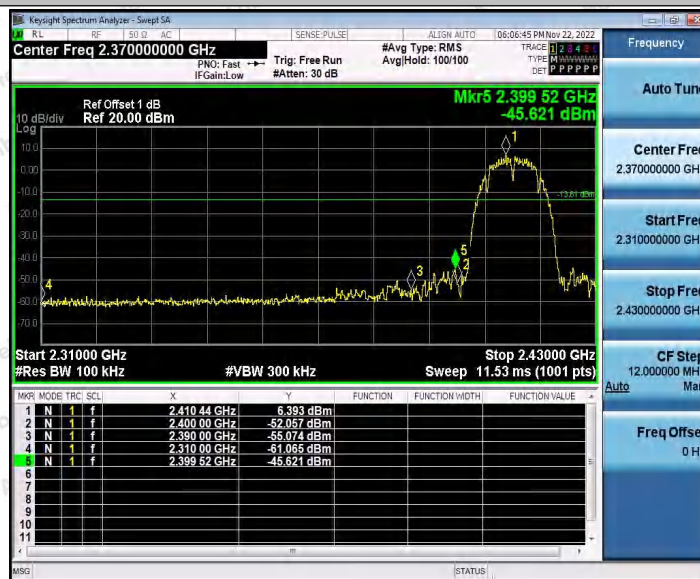
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.39	-45.62	≤-13.61	PASS
		High	2462	6.16	-50.58	≤-13.84	PASS
11G	Ant1	Low	2412	4.59	-25.05	≤-15.42	PASS
		High	2462	5.40	-49.67	≤-14.6	PASS
11N20	Ant1	Low	2412	4.77	-25.08	≤-15.23	PASS
		High	2462	5.09	-51.31	≤-14.91	PASS
11N40	Ant1	Low	2422	0.20	-29.54	≤-19.8	PASS
		High	2452	0.55	-40.39	≤-19.45	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

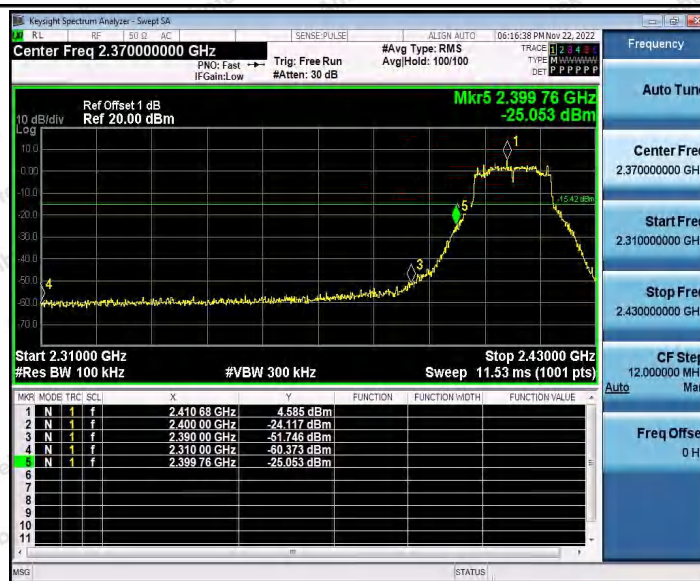
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11G_Ant1_High_2462



11N20_Ant1_Low_2412

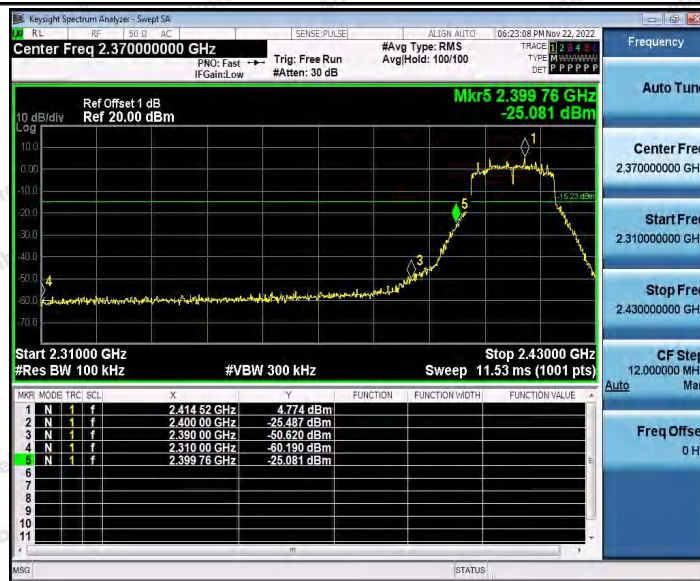
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11N20_Ant1_High_2462



11N40_Ant1_Low_2422

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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-67.96	≤-15.46	PASS
			1000~26500	4.54	-52.95	≤-15.46	PASS
		2437	Reference	5.96	5.96	---	PASS
			30~1000	5.96	-67.27	≤-14.04	PASS
			1000~26500	5.96	-53.36	≤-14.04	PASS
		2462	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-69.01	≤-15.13	PASS
			1000~26500	4.87	-52.93	≤-15.13	PASS
11G	Ant1	2412	Reference	3.63	3.63	---	PASS
			30~1000	3.63	-68.5	≤-16.37	PASS
			1000~26500	3.63	-52.55	≤-16.37	PASS
		2437	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-67.89	≤-18.13	PASS
			1000~26500	1.87	-53.33	≤-18.13	PASS
		2462	Reference	1.20	1.20	---	PASS
			30~1000	1.20	-68.63	≤-18.8	PASS
			1000~26500	1.20	-52.88	≤-18.8	PASS
11N20	Ant1	2412	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-68.69	≤-15.85	PASS
			1000~26500	4.15	-52.89	≤-15.85	PASS
		2437	Reference	1.34	1.34	---	PASS
			30~1000	1.34	-68.22	≤-18.66	PASS
			1000~26500	1.34	-52.9	≤-18.66	PASS
		2462	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-68.5	≤-17.82	PASS
			1000~26500	2.18	-53.1	≤-17.82	PASS
11N40	Ant1	2422	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-68.97	≤-20.25	PASS
			1000~26500	-0.25	-53.14	≤-20.25	PASS
		2437	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-68.68	≤-19.22	PASS
			1000~26500	0.78	-51.9	≤-19.22	PASS
		2452	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-68.87	≤-19.45	PASS
			1000~26500	0.55	-53.55	≤-19.45	PASS

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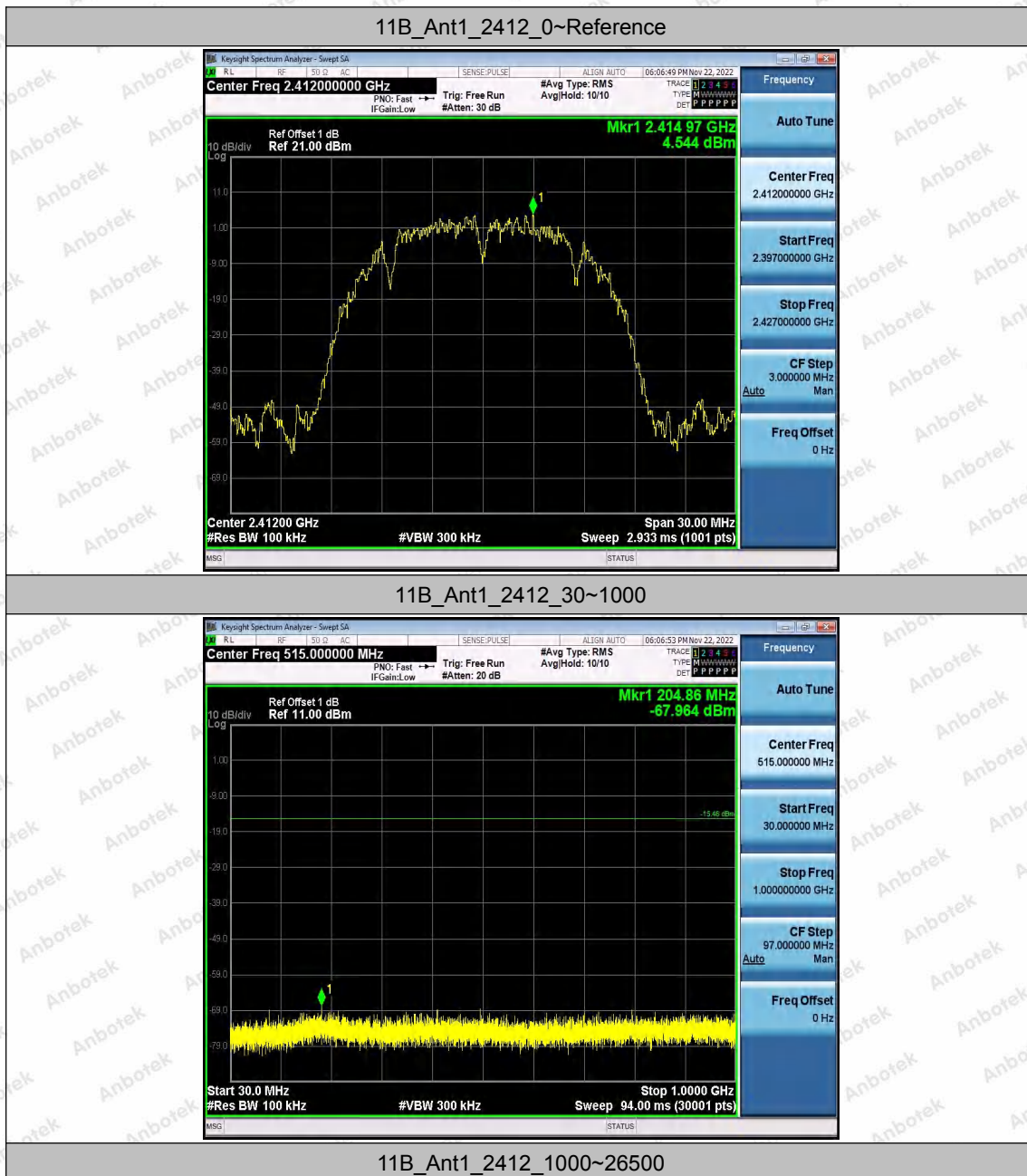
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Test Graphs



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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

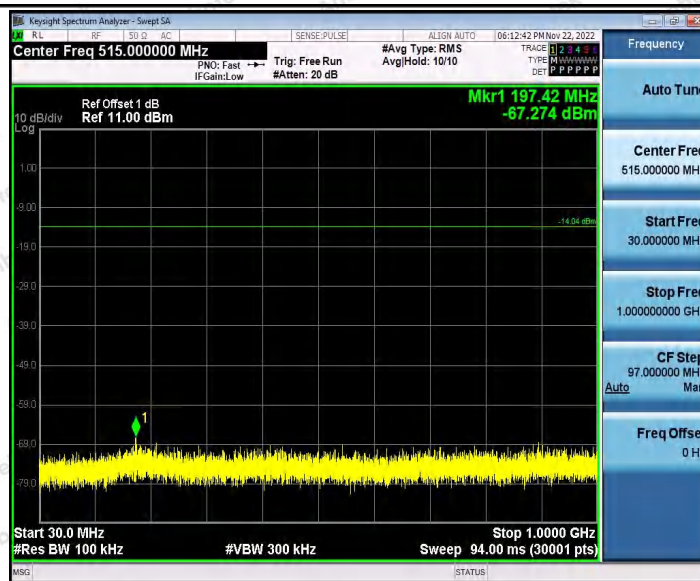
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

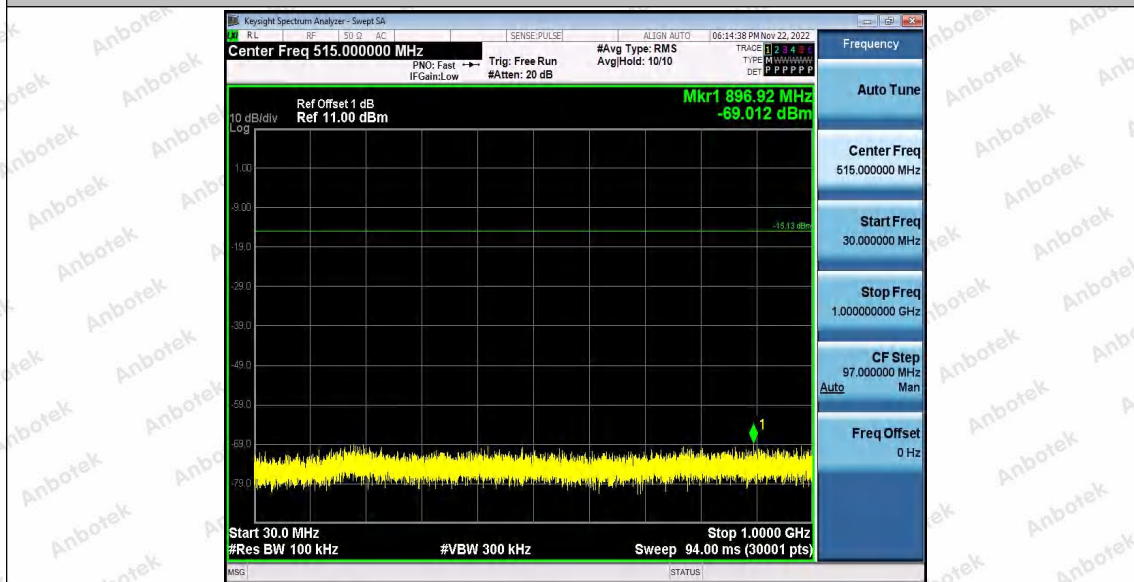
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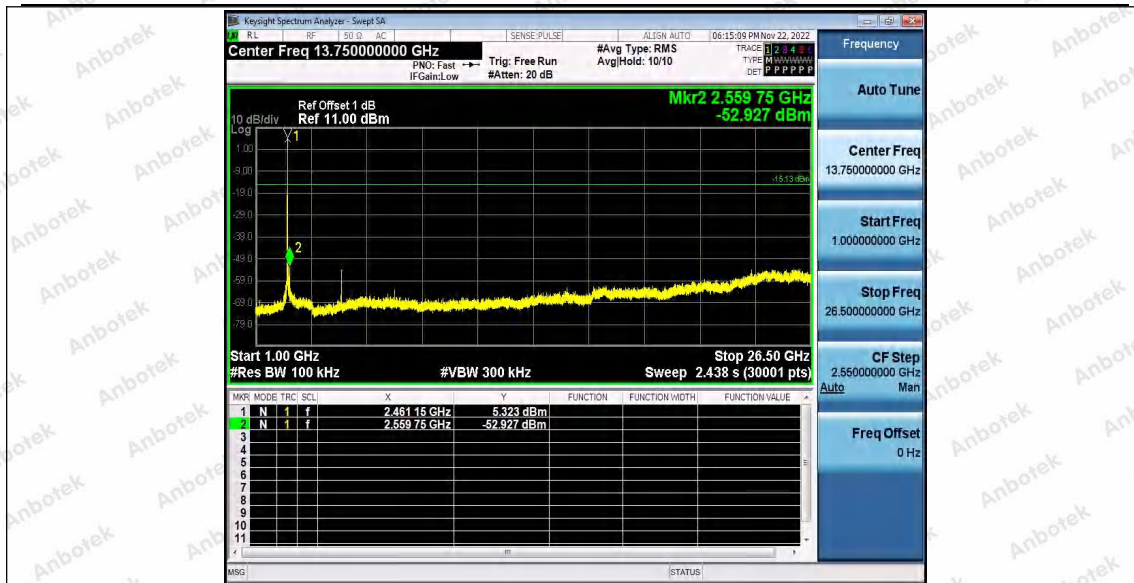
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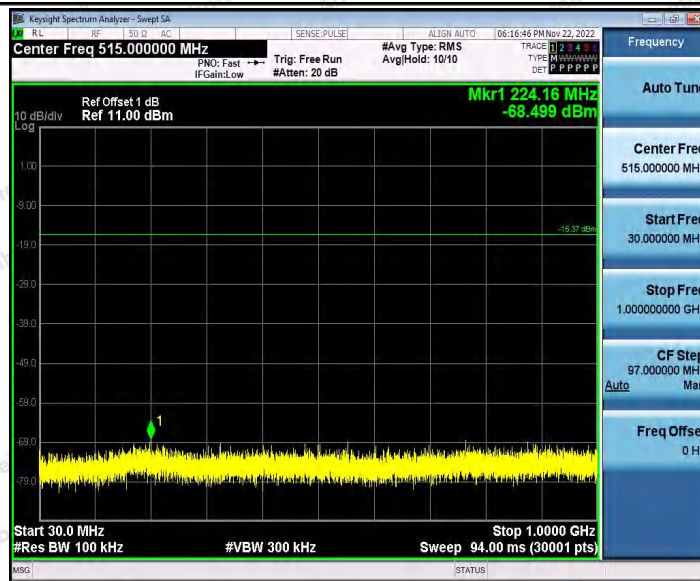


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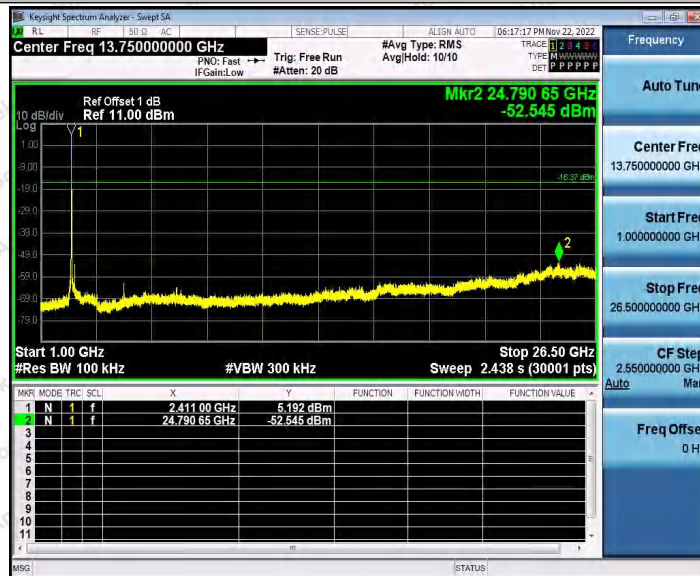


11G_Ant1_2412_30~1000





11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

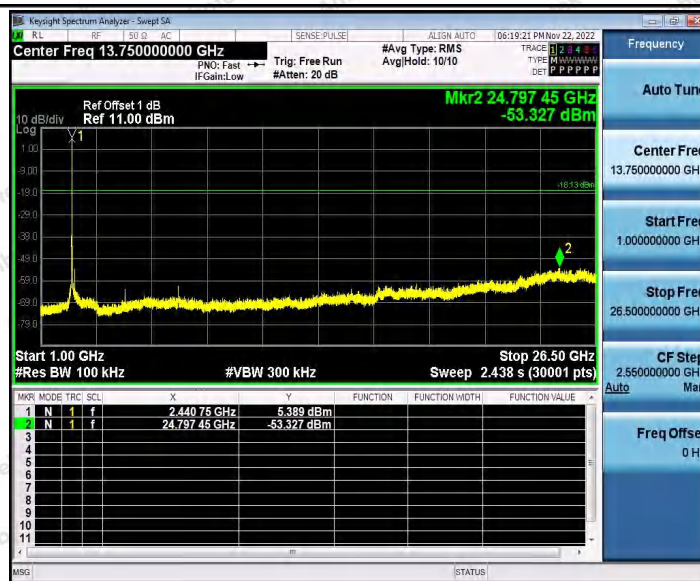
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

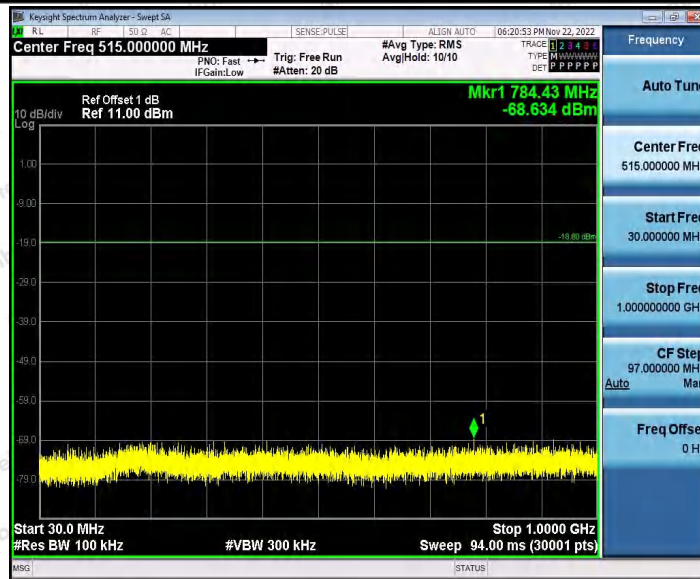
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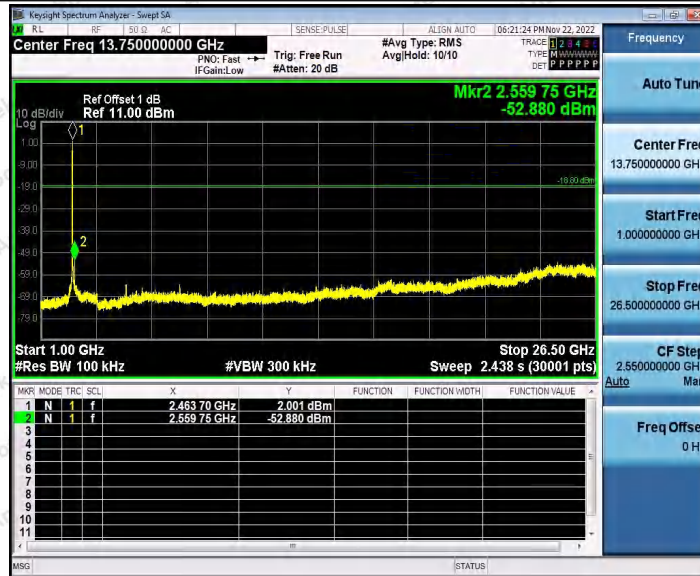


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11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference

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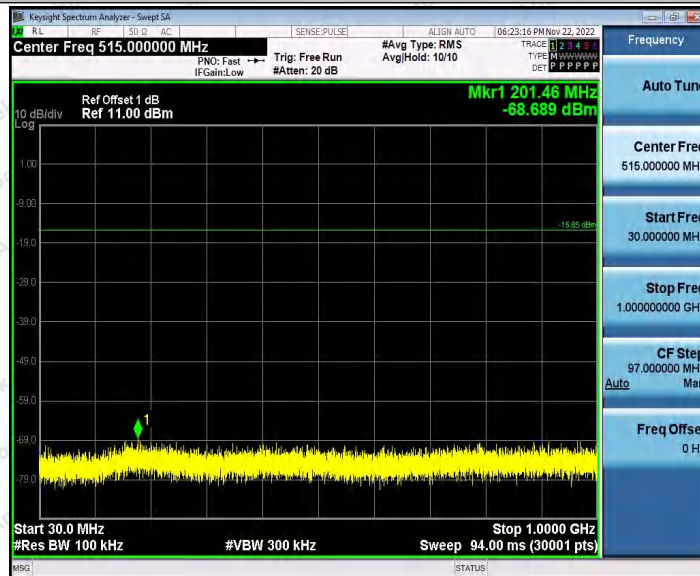


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11N20_Ant1_2412_30~1000



11N20_Ant1_2412_1000~26500

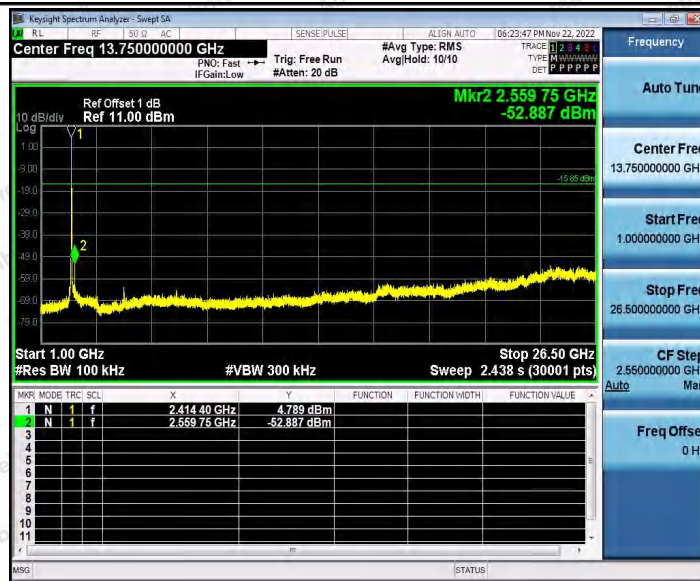
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11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000

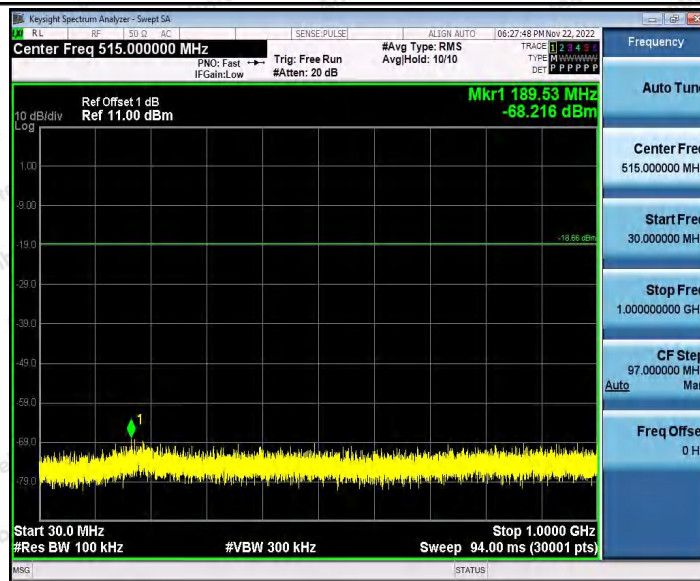
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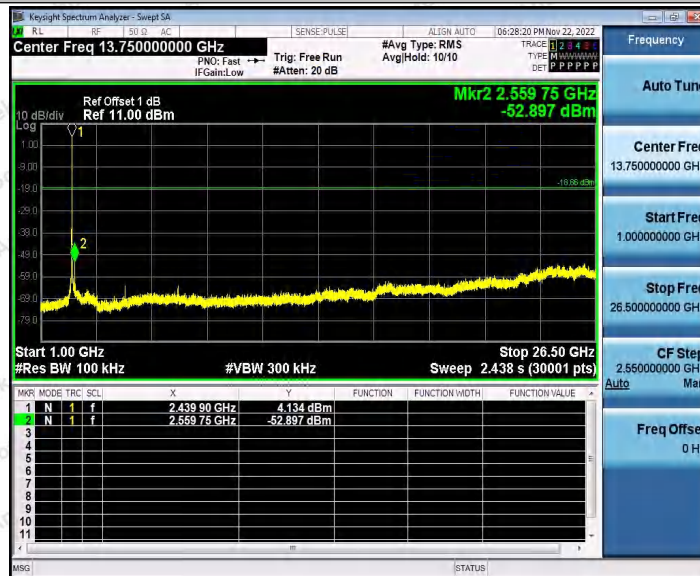


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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

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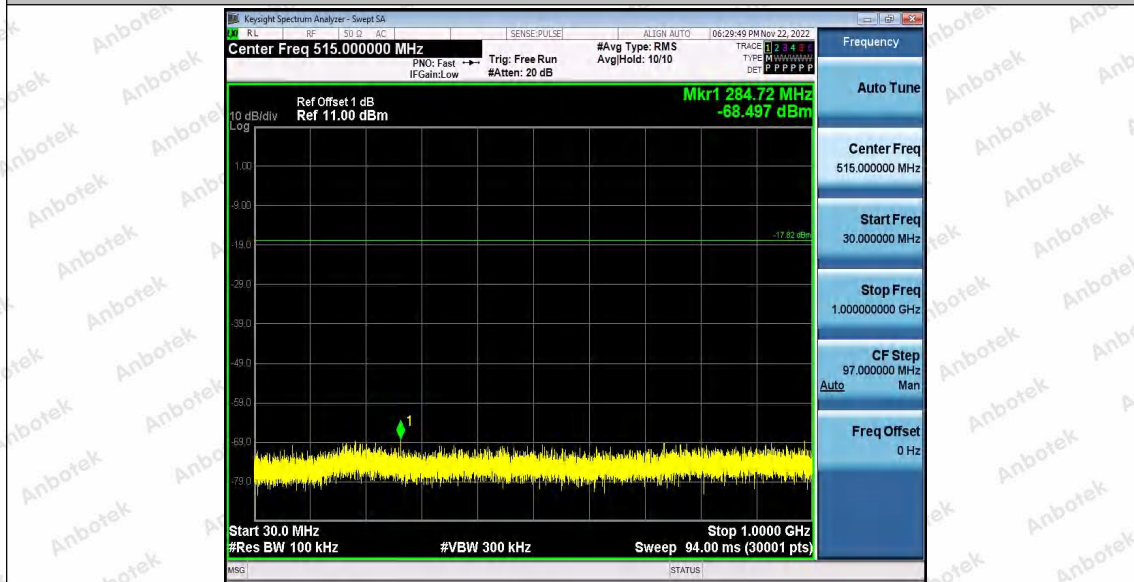


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11N20_Ant1_2462_30~1000



11N20_Ant1_2462_1000~26500

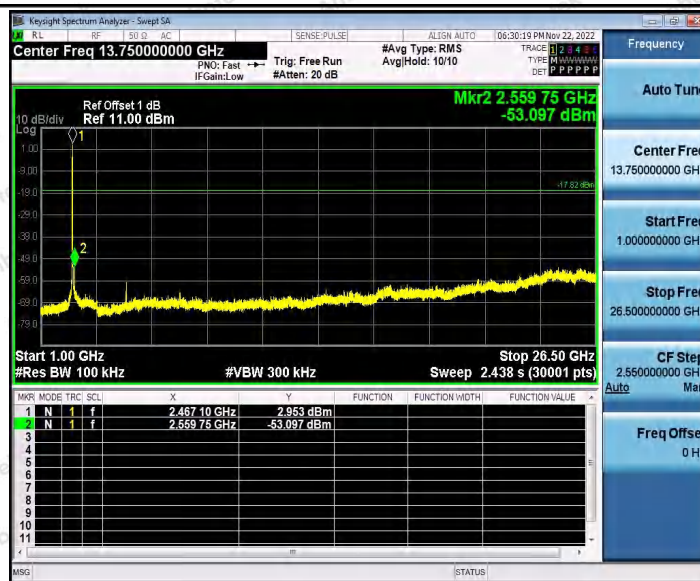
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11N40_Ant1_2422_0~Reference



11N40_Ant1_2422_30~1000

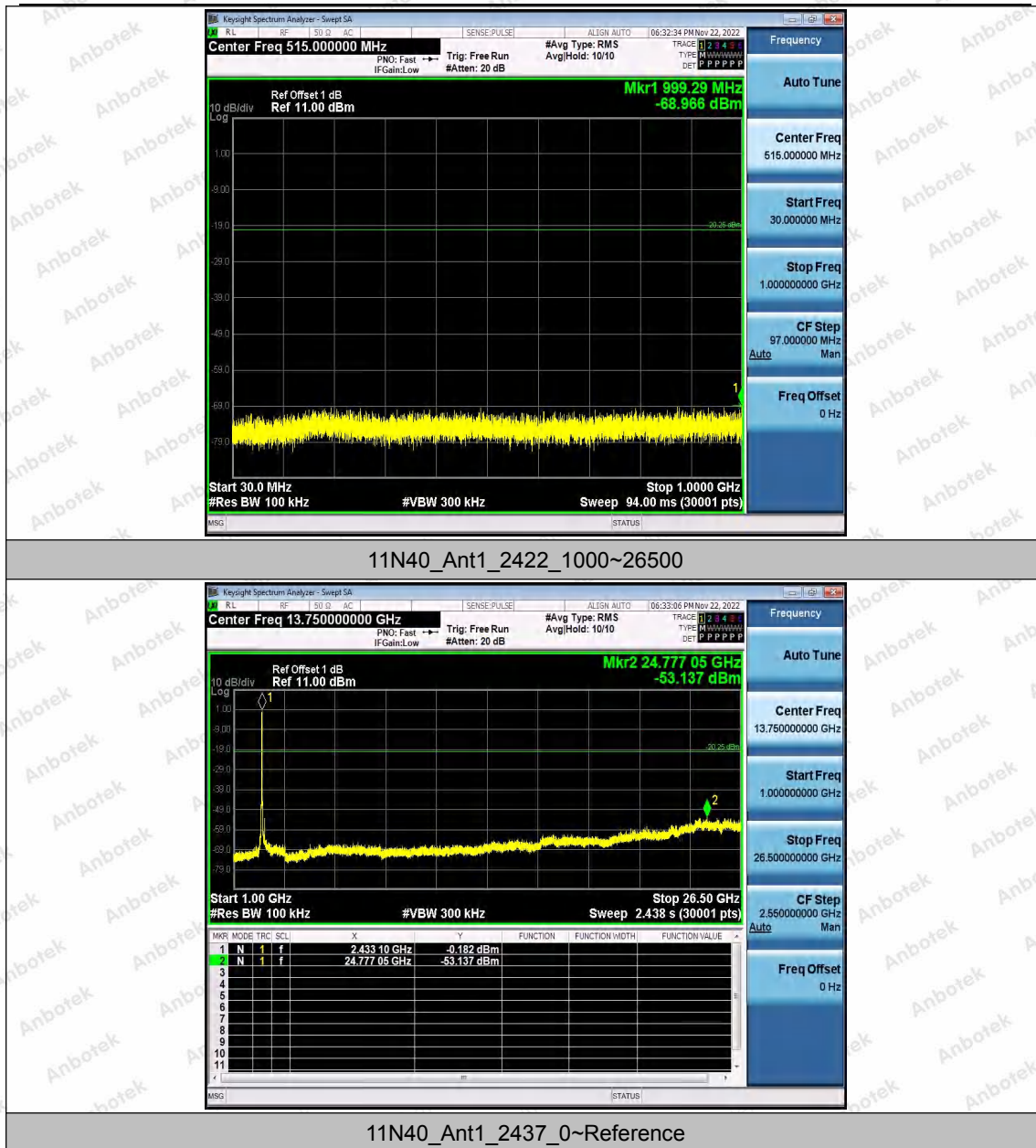
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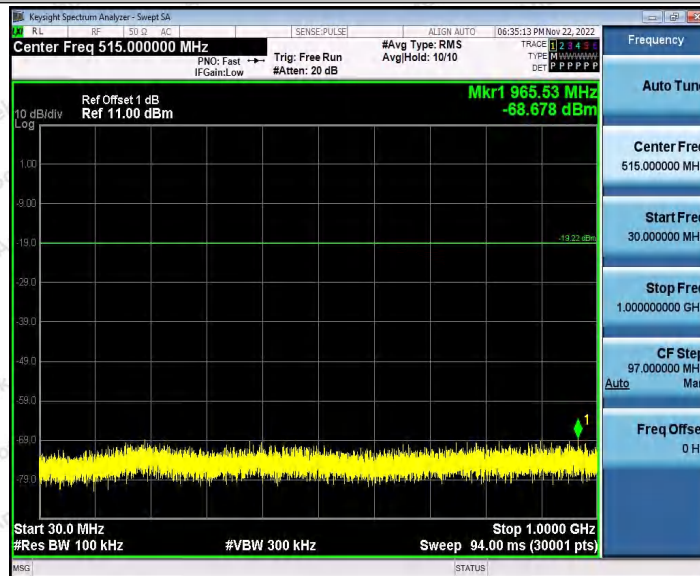


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11N40_Ant1_2437_30~1000



11N40_Ant1_2437_1000~26500

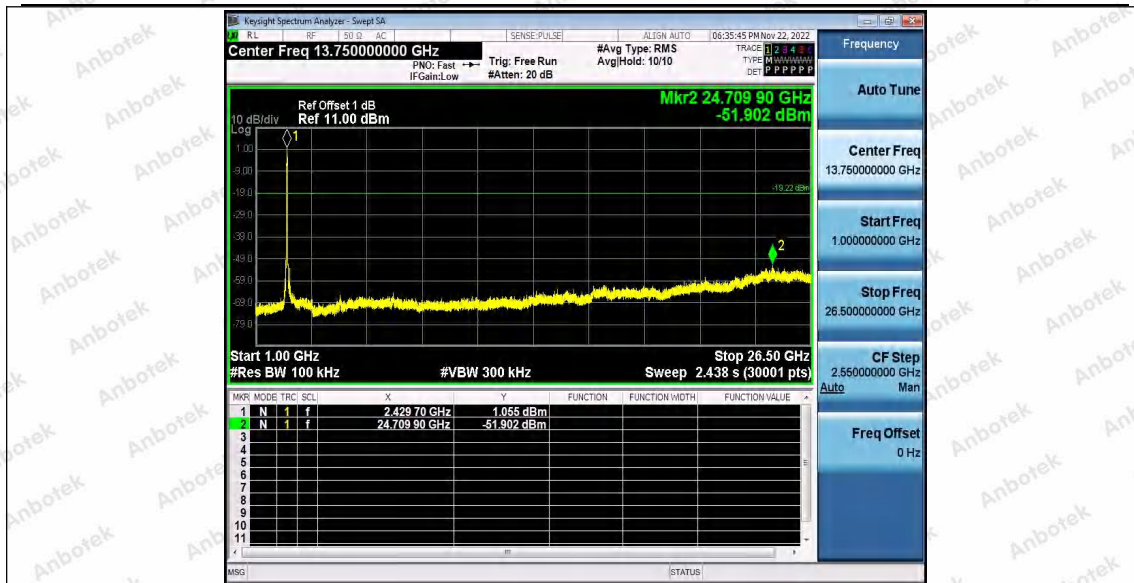
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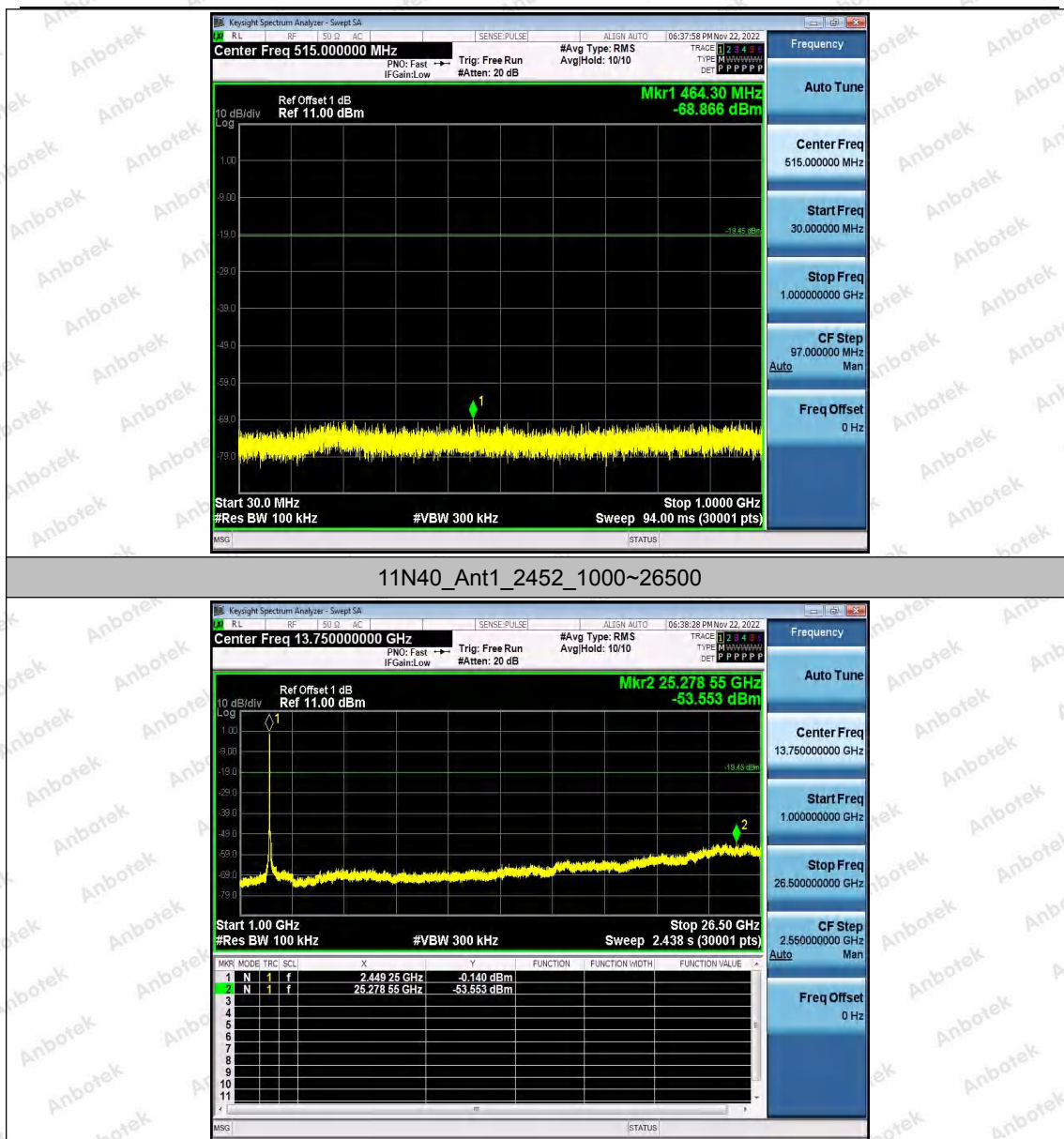


11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000





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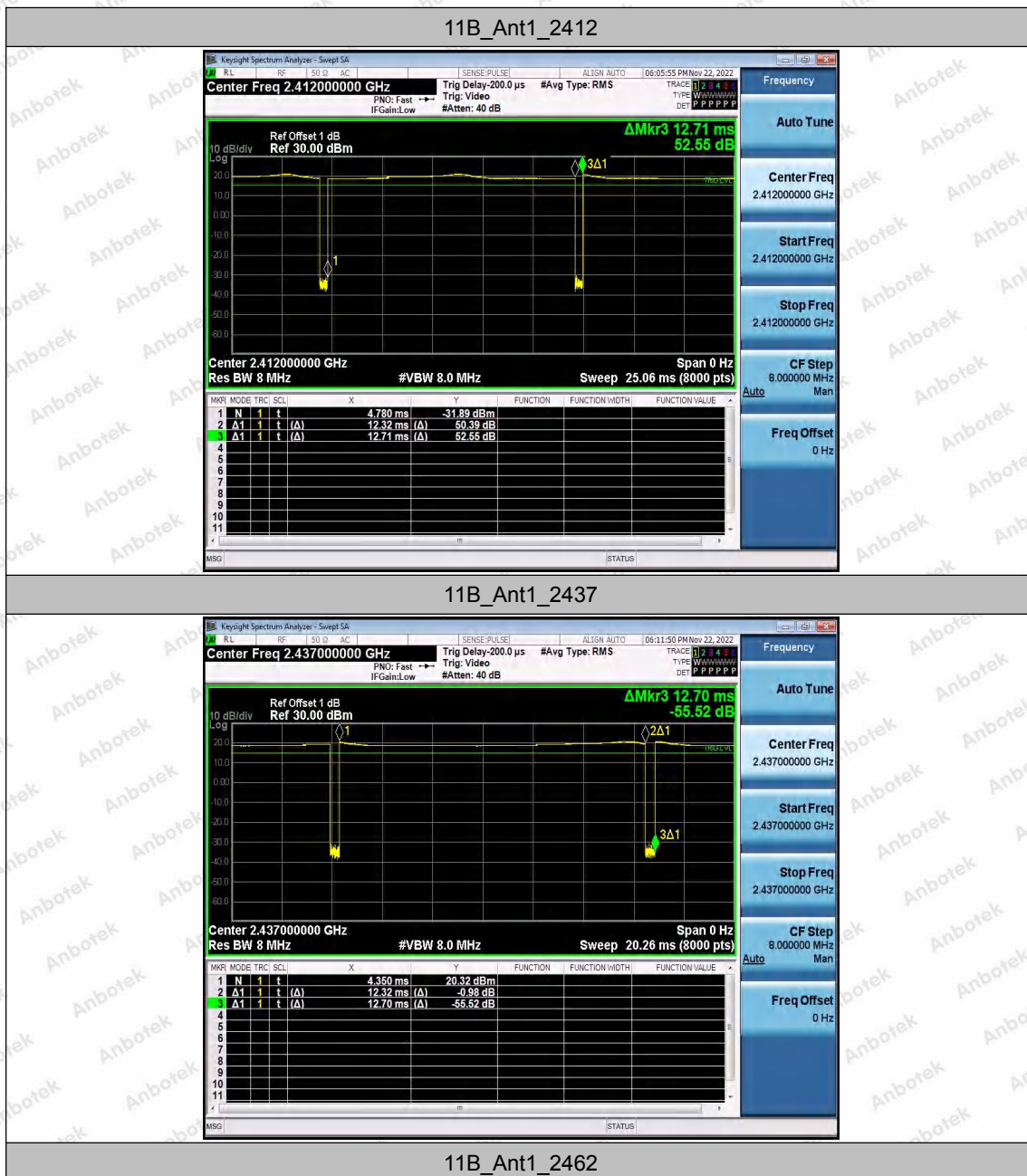
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.32	12.71	96.93	0.14
		2437	12.32	12.70	97.01	0.13
		2462	12.32	12.70	97.01	0.13
11G	Ant1	2412	2.05	2.12	96.70	0.15
		2437	2.04	2.11	96.68	0.15
		2462	2.05	2.12	96.70	0.15
11N20	Ant1	2412	1.91	1.97	96.95	0.13
		2437	1.91	1.98	96.46	0.16
		2462	1.91	1.98	96.46	0.16
11N40	Ant1	2422	0.93	0.97	95.88	0.18
		2437	0.94	0.97	96.91	0.14
		2452	0.93	0.97	95.88	0.18



Test Graphs



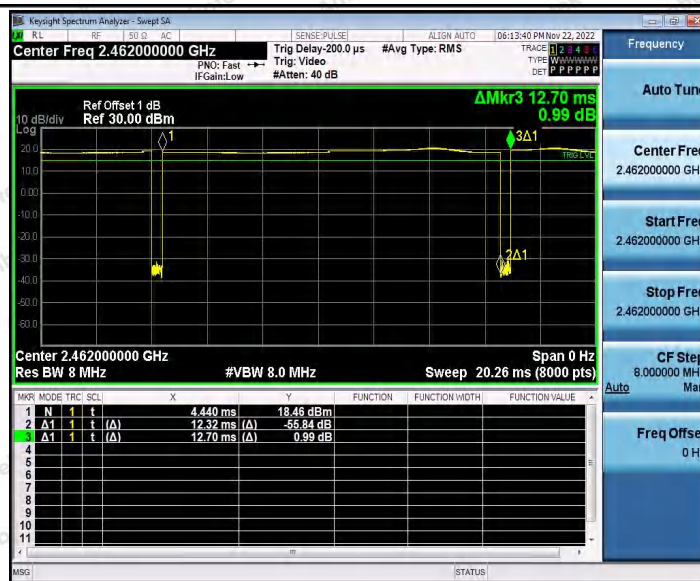
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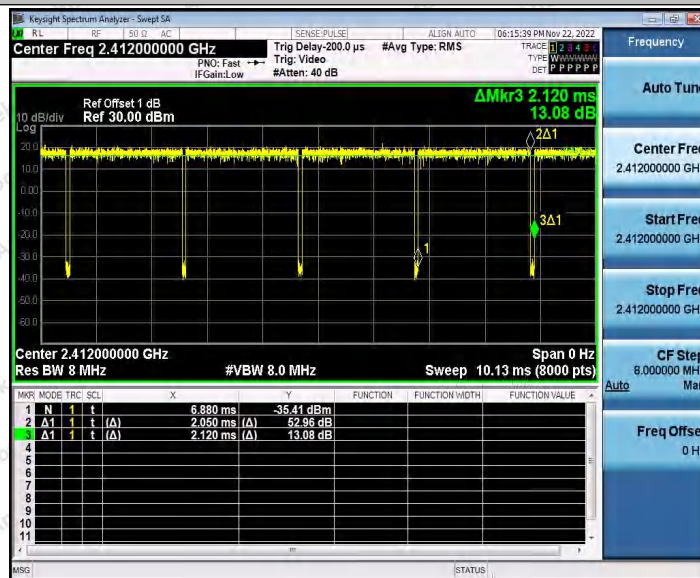


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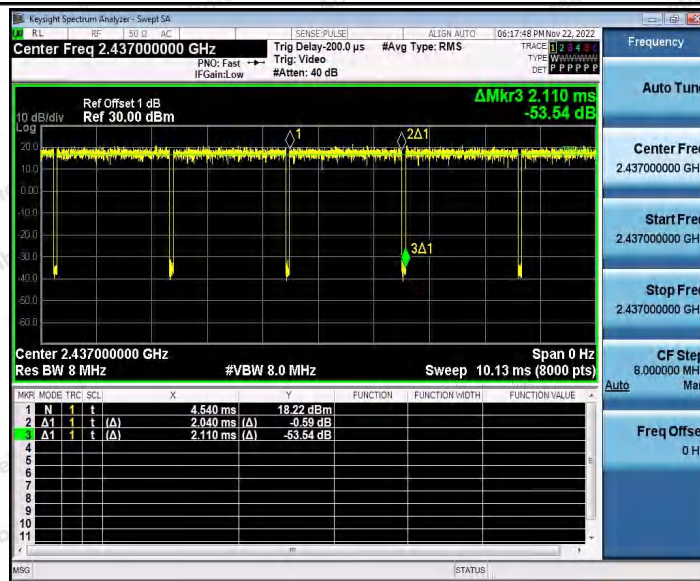


11G_Ant1_2412

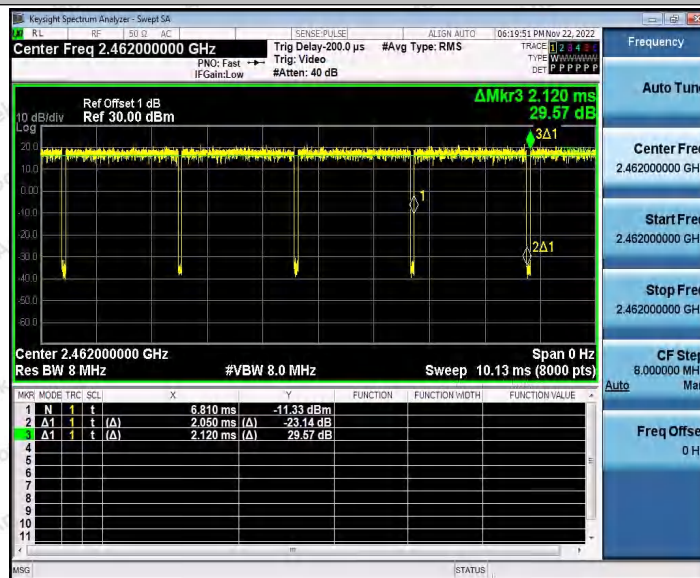


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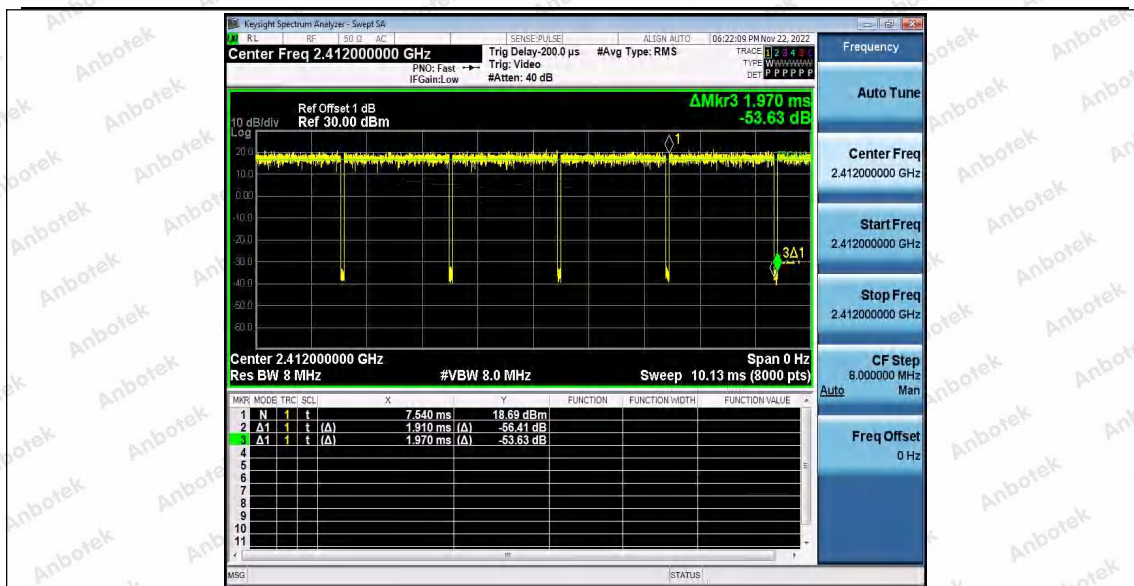


11G_Ant1_2462



11N20_Ant1_2412



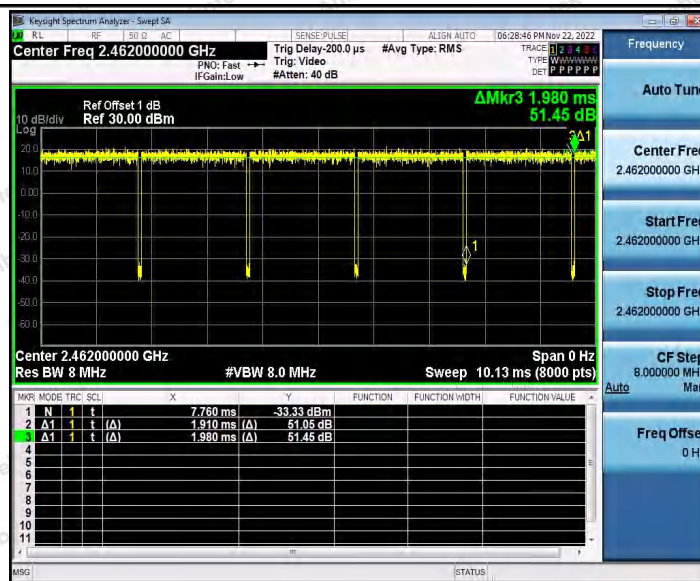


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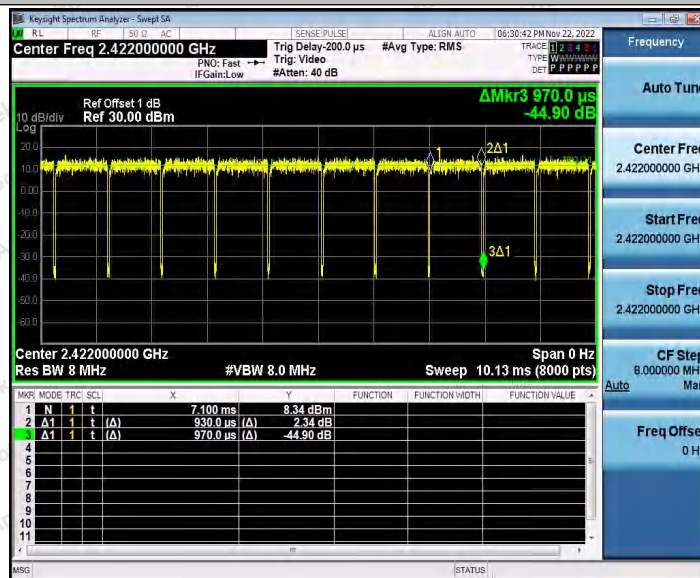


11N20_Ant1_2462





11N40_Ant1_2422



11N40_Ant1_2437

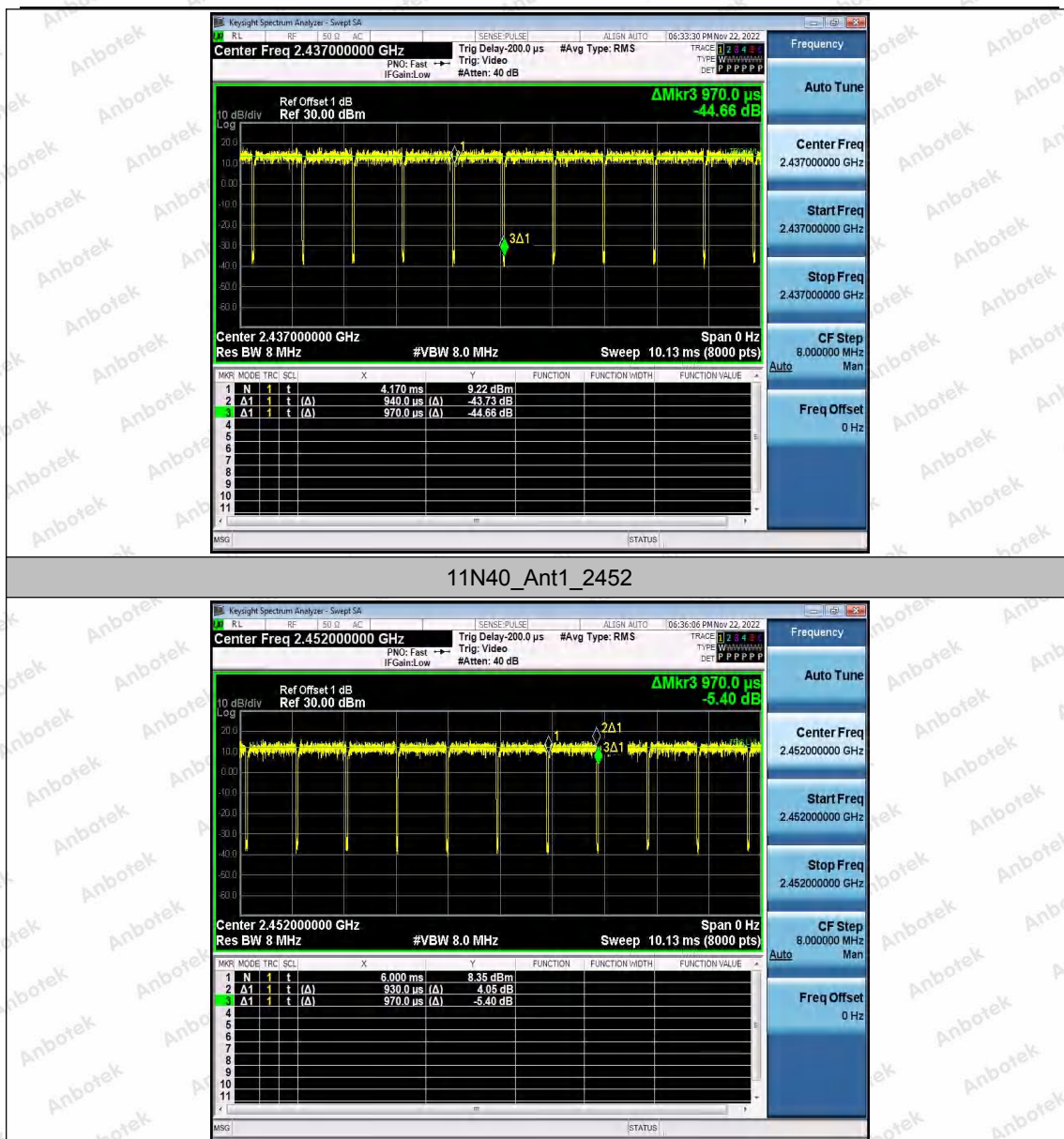
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