

Appendix Test Data

Report No.:	18220WC20287402	Test Sample No.:	1-2-2
Start Test Date:	2022.12.15	Finish Test Date:	2022.12.26
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	37 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	≥0.5	PASS
		2437	9.560	2432.440	2442.000	≥0.5	PASS
		2462	9.120	2457.440	2466.560	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
		2437	16.360	2428.840	2445.200	≥0.5	PASS
		2462	16.320	2453.840	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.640	2453.200	2470.840	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

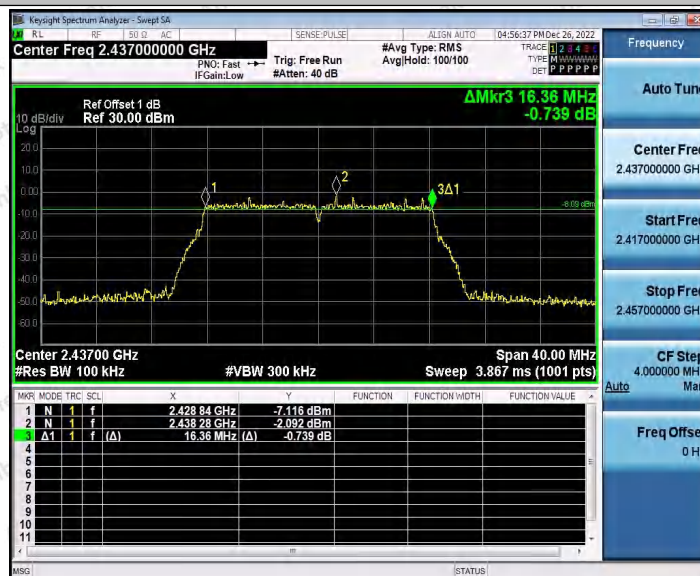




11G_Ant1_2412



11G_Ant1_2437



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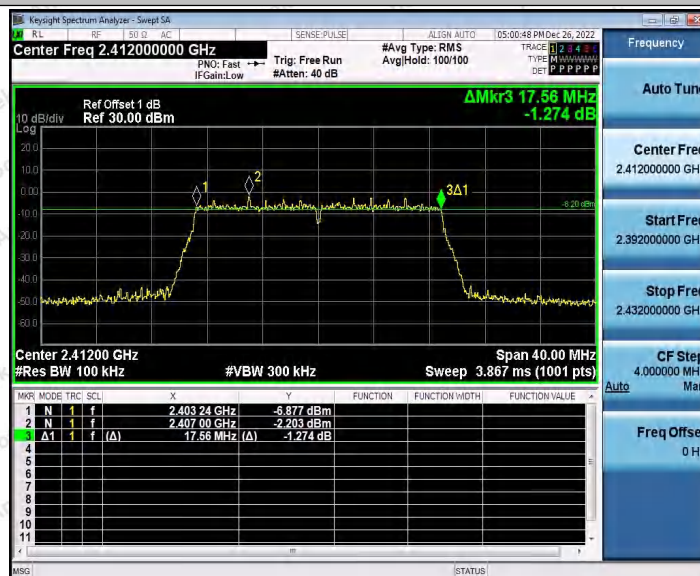
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11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

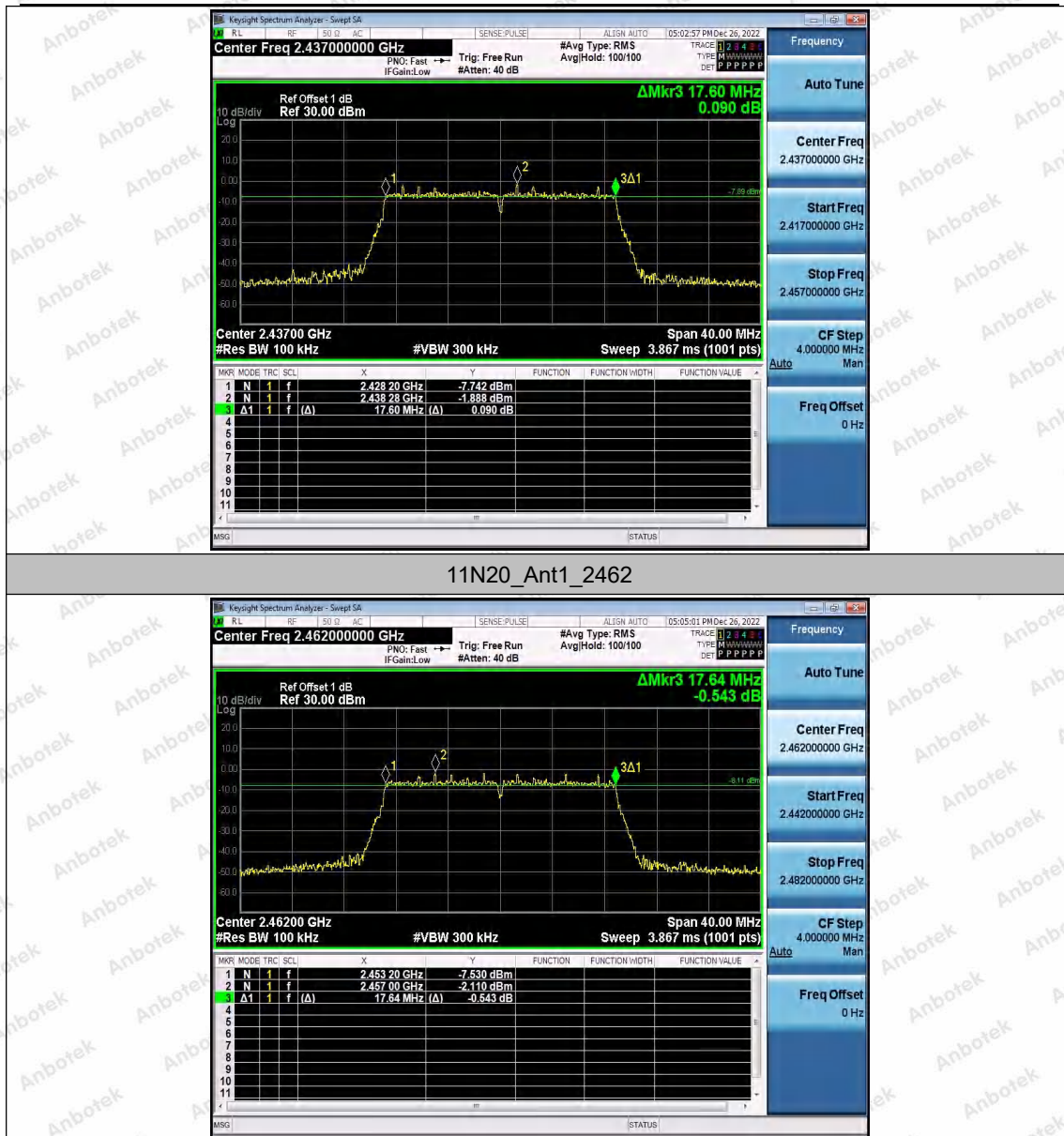
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.281	2405.9062	2418.1872
		2437	12.313	2430.8722	2443.1852
		2462	12.330	2455.8669	2468.1969
11G	Ant1	2412	17.131	2403.4649	2420.5959
		2437	17.022	2428.5100	2445.5320
		2462	17.080	2453.4446	2470.5246
11N20	Ant1	2412	17.953	2403.0550	2421.0080
		2437	18.000	2428.0137	2446.0137
		2462	17.937	2453.0865	2471.0235

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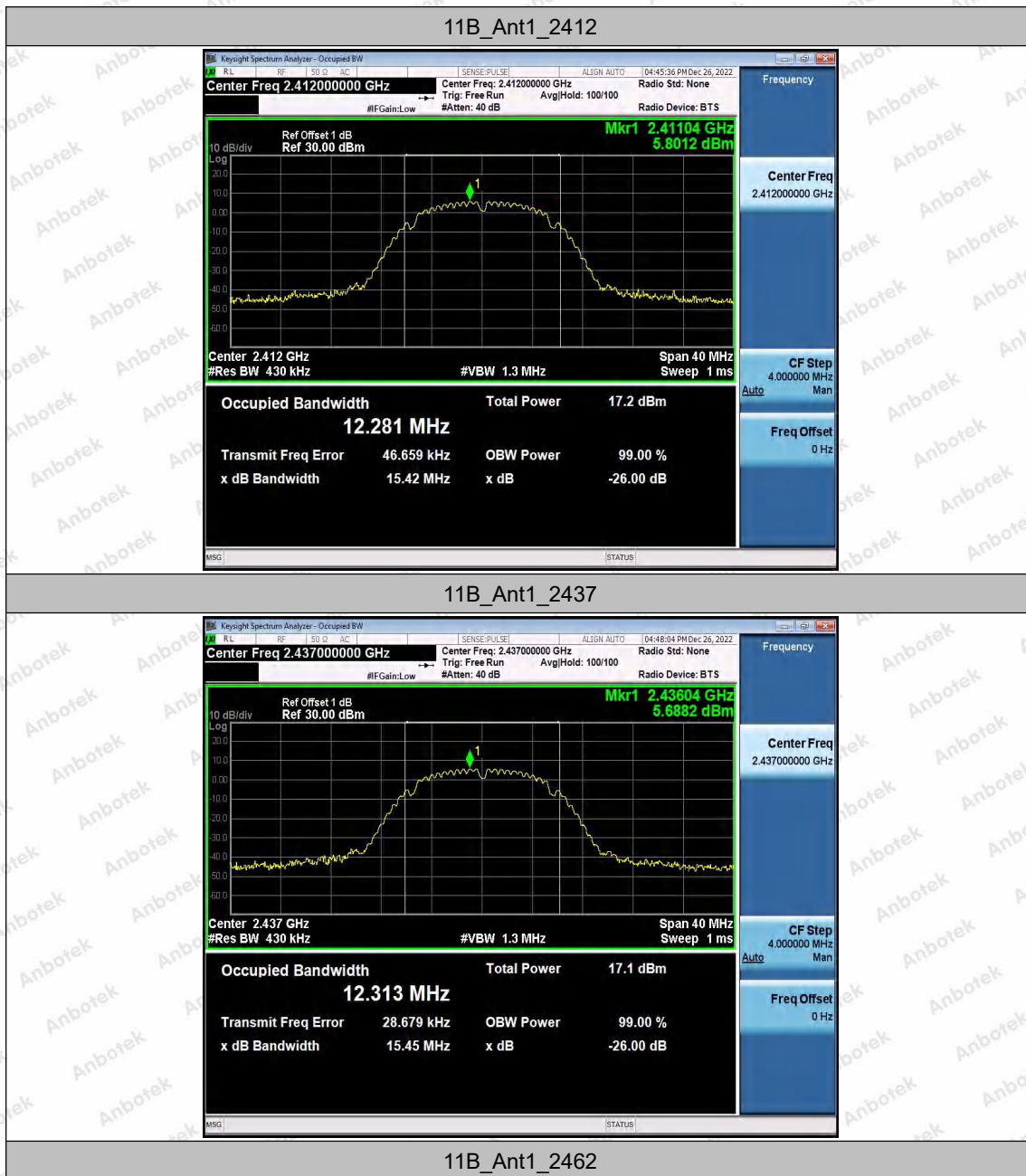
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Test Graphs



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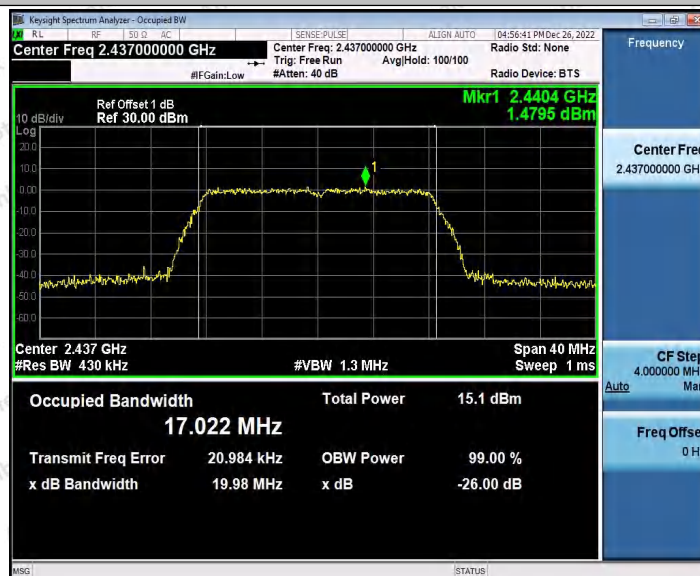




11G_Ant1_2412



11G_Ant1_2437



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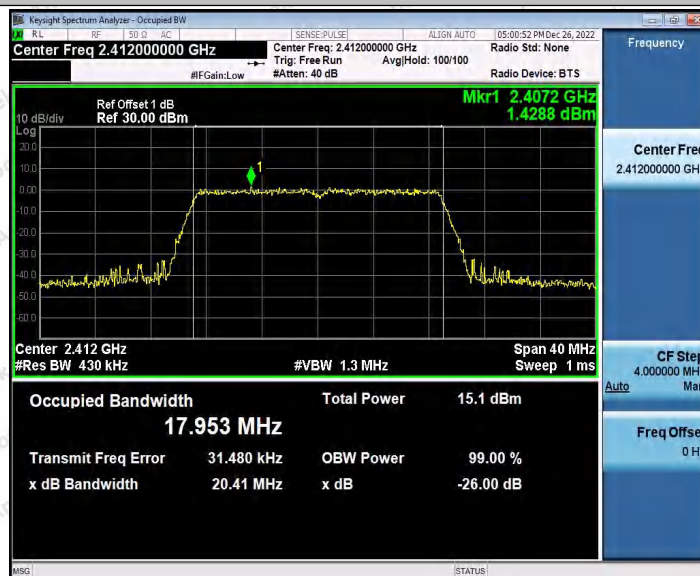
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11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

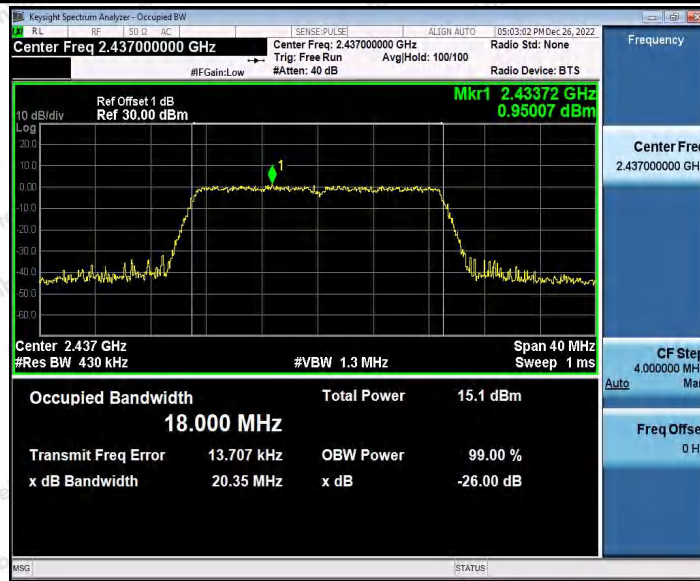
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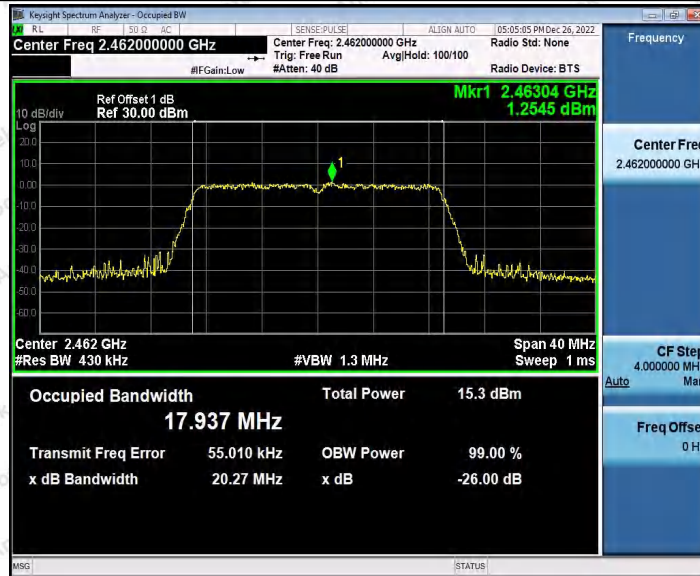


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11N20_Ant1_2462



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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	17.20	≤30.00
		2437	17.10	≤30.00
		2462	17.20	≤30.00
11G	Ant1	2412	16.59	≤30.00
		2437	16.25	≤30.00
		2462	16.88	≤30.00
11N20	Ant1	2412	16.34	≤30.00
		2437	16.32	≤30.00
		2462	16.47	≤30.00



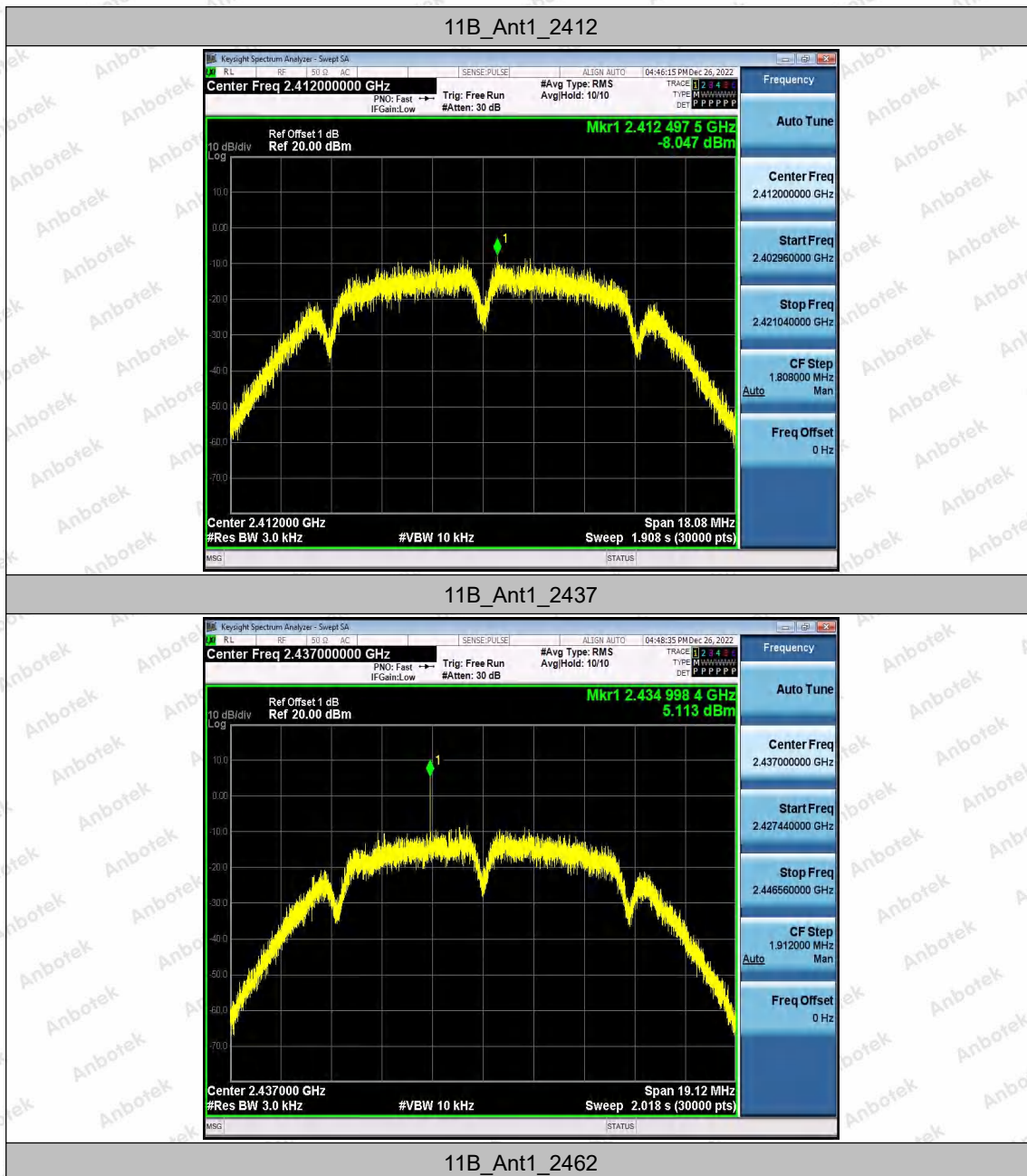
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.05	≤8.00	PASS
		2437	5.11	≤8.00	PASS
		2462	-8.21	≤8.00	PASS
11G	Ant1	2412	-15.24	≤8.00	PASS
		2437	-15.43	≤8.00	PASS
		2462	-15.57	≤8.00	PASS
11N20	Ant1	2412	-16.52	≤8.00	PASS
		2437	-15.94	≤8.00	PASS
		2462	-15.78	≤8.00	PASS



Test Graphs



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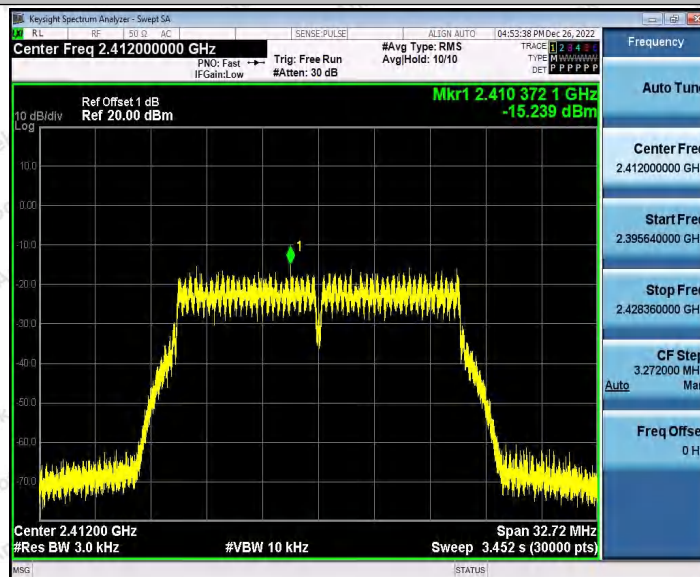


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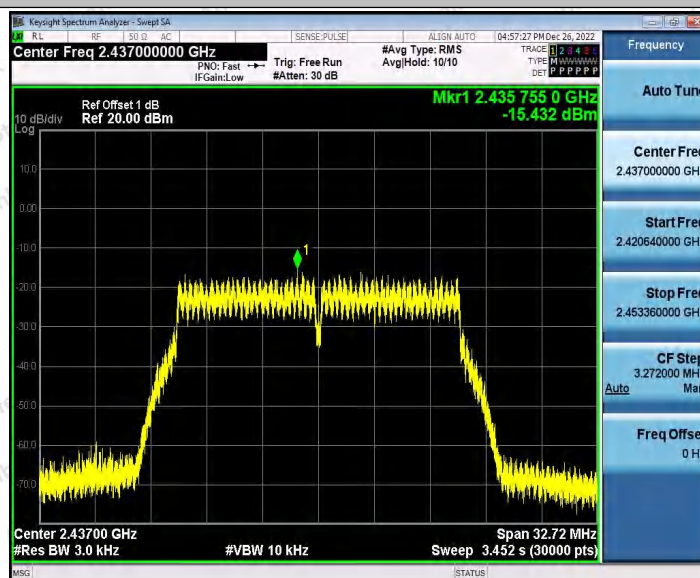




11G_Ant1_2412



11G_Ant1_2437



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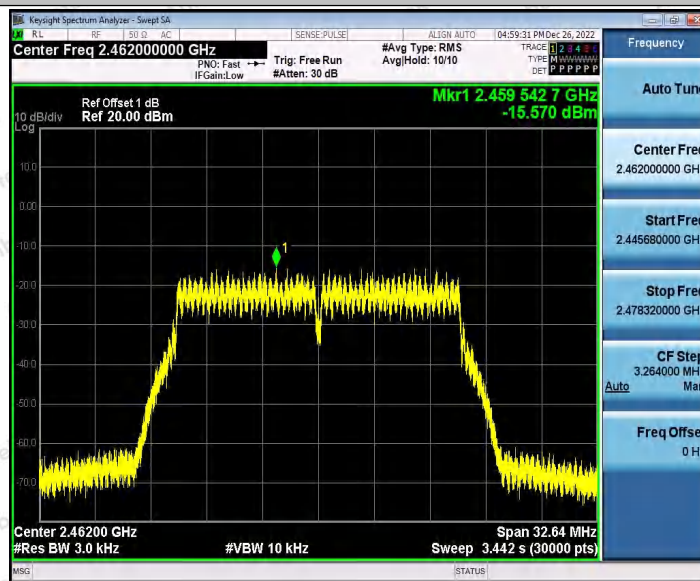
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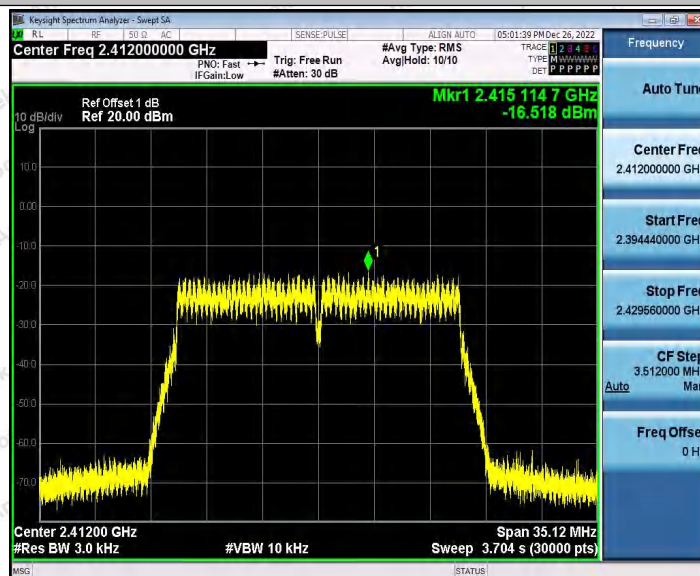
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11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

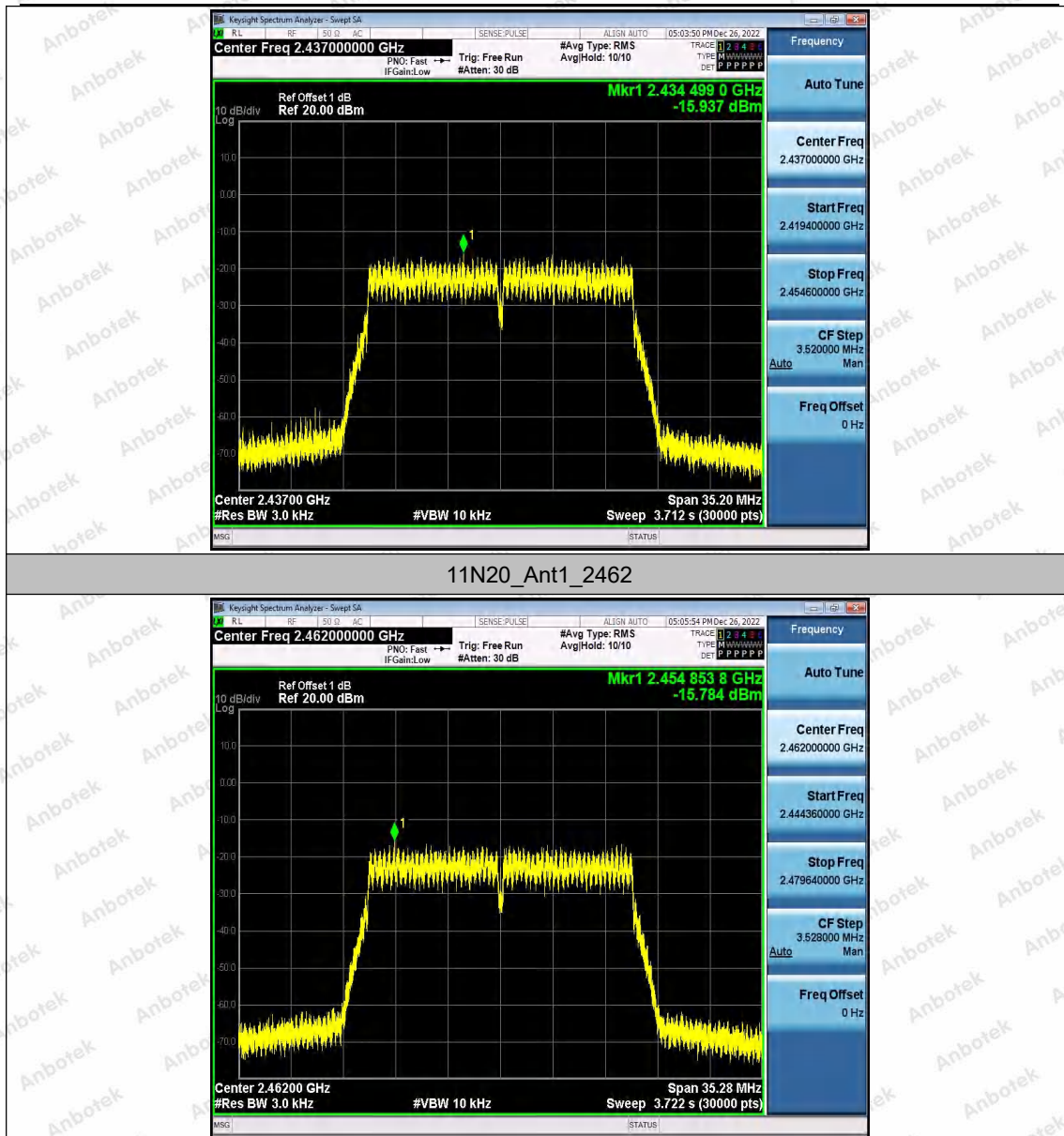
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.92	-48.74	≤-15.08	PASS
		High	2462	5.60	-55.44	≤-14.4	PASS
11G	Ant1	Low	2412	-2.03	-47.96	≤-22.03	PASS
		High	2462	-1.27	-52.32	≤-21.27	PASS
11N20	Ant1	Low	2412	-2.16	-44.95	≤-22.16	PASS
		High	2462	-2.12	-53.09	≤-22.12	PASS

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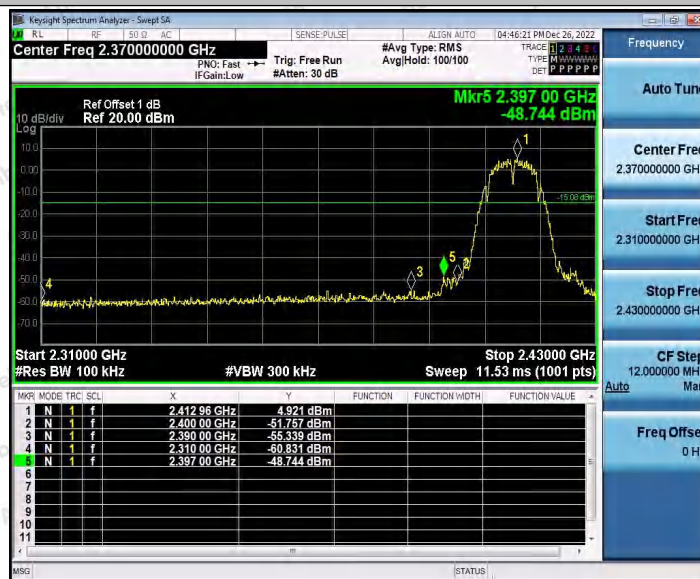


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Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

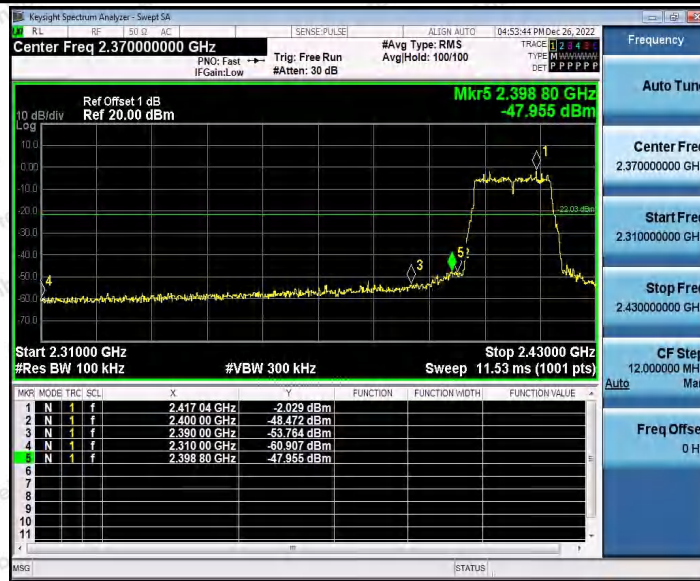
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11G_Ant1_High_2462



11N20_Ant1_Low_2412

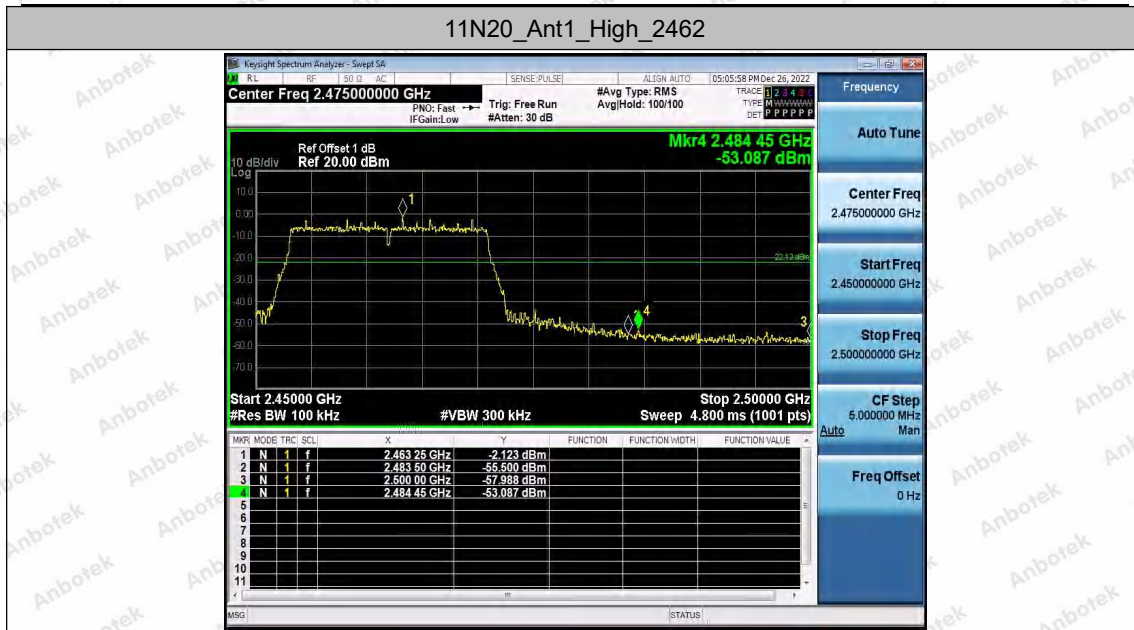


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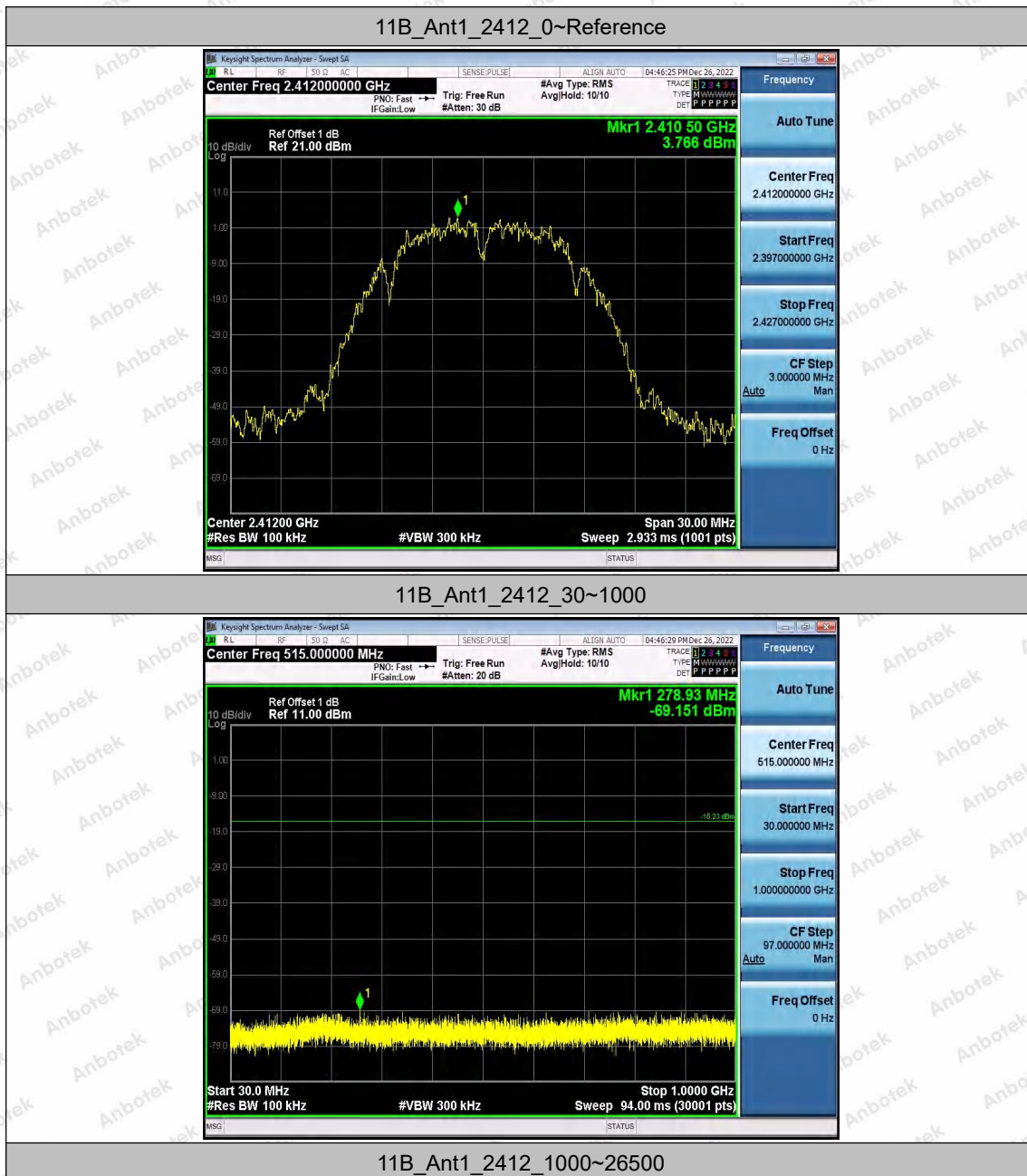
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.77	3.77	---	PASS
			30~1000	3.77	-69.15	≤-16.23	PASS
			1000~26500	3.77	-53.35	≤-16.23	PASS
		2437	Reference	4.55	4.55	---	PASS
			30~1000	4.55	-68.67	≤-15.45	PASS
			1000~26500	4.55	-52.84	≤-15.45	PASS
		2462	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-67.54	≤-14.65	PASS
			1000~26500	5.35	-52.51	≤-14.65	PASS
11G	Ant1	2412	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-68.95	≤-22.97	PASS
			1000~26500	-2.97	-53.16	≤-22.97	PASS
		2437	Reference	-5.38	-5.38	---	PASS
			30~1000	-5.38	-68.72	≤-25.38	PASS
			1000~26500	-5.38	-52.95	≤-25.38	PASS
		2462	Reference	-3.89	-3.89	---	PASS
			30~1000	-3.89	-68.69	≤-23.89	PASS
			1000~26500	-3.89	-51.41	≤-23.89	PASS
11N20	Ant1	2412	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-67.72	≤-22.41	PASS
			1000~26500	-2.41	-53.52	≤-22.41	PASS
		2437	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-68.82	≤-21.88	PASS
			1000~26500	-1.88	-53.19	≤-21.88	PASS
		2462	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-69.39	≤-22.23	PASS
			1000~26500	-2.23	-52.68	≤-22.23	PASS



Test Graphs



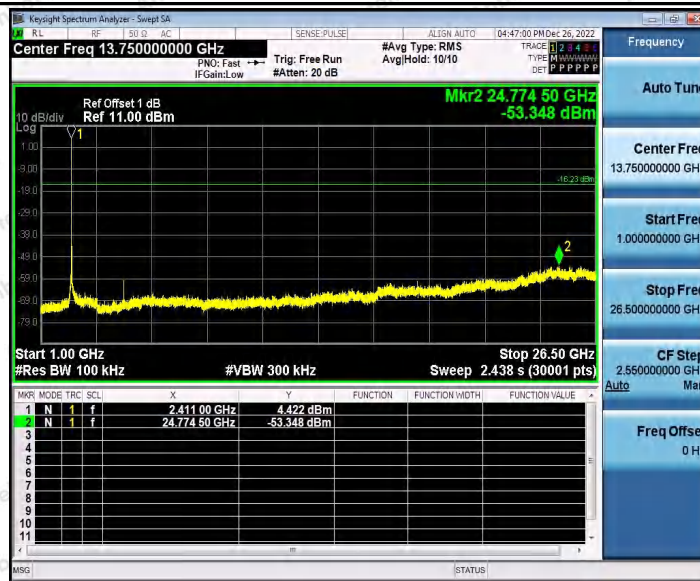
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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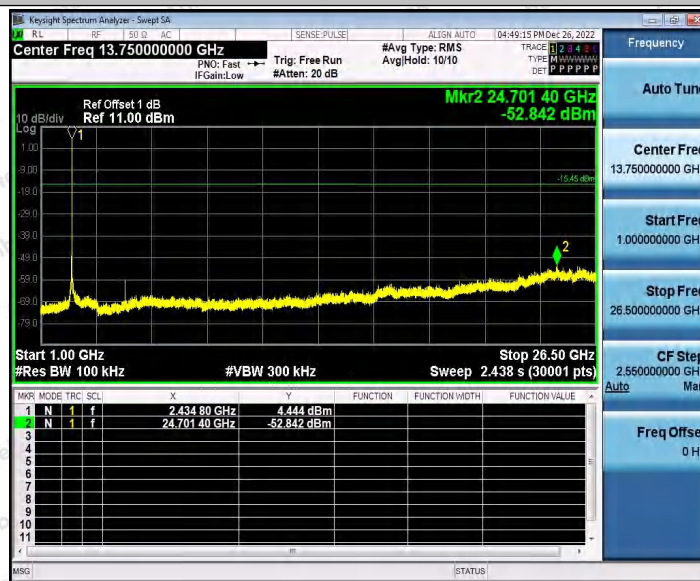
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

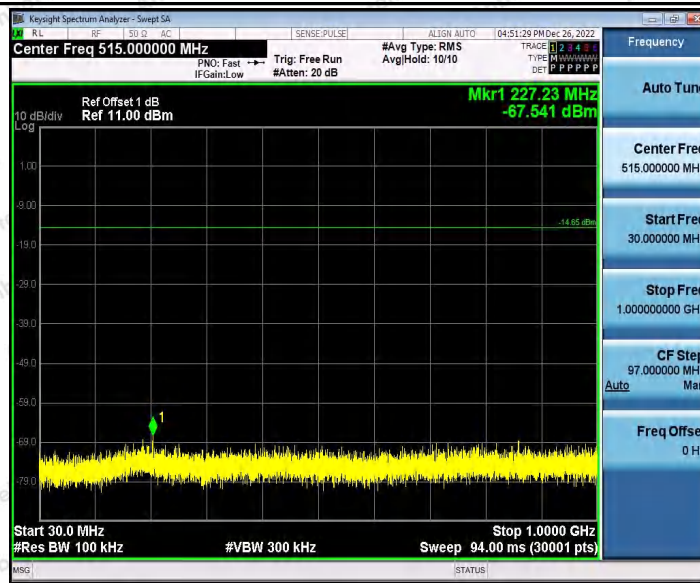
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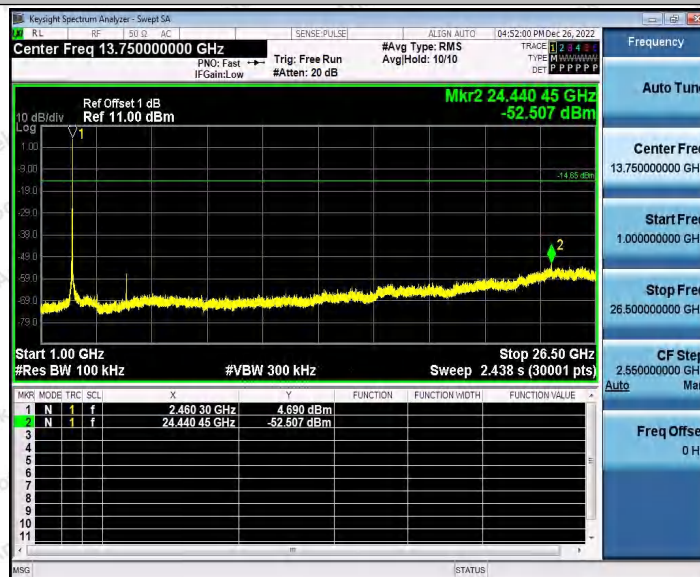


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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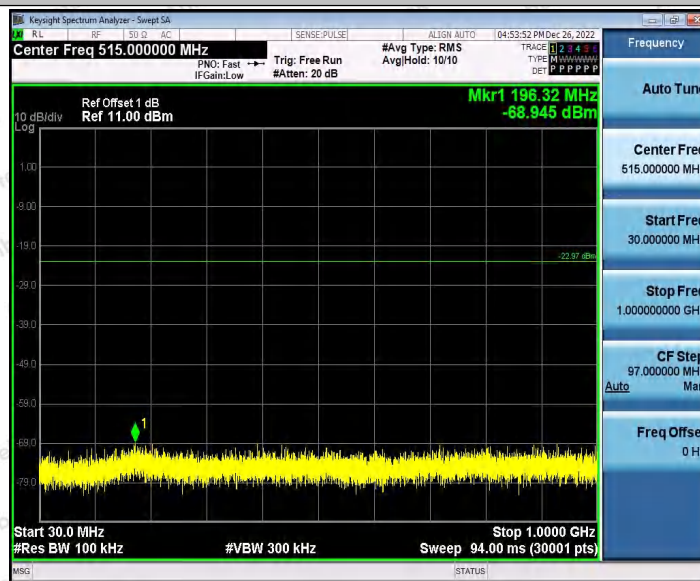
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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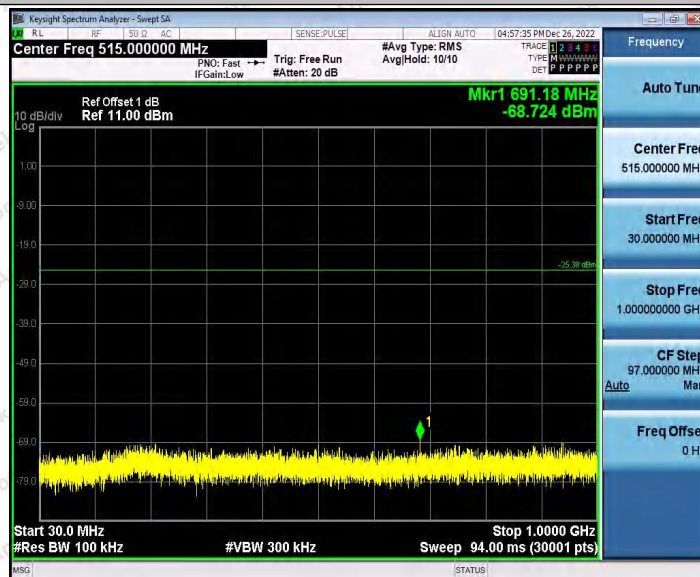


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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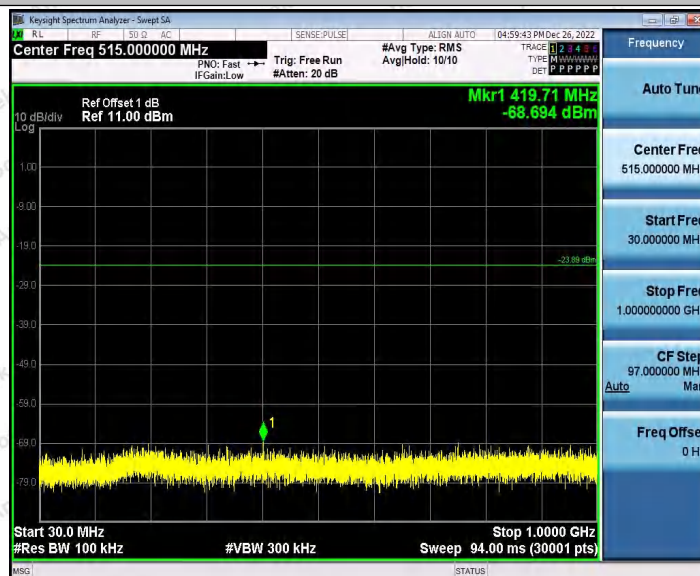
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

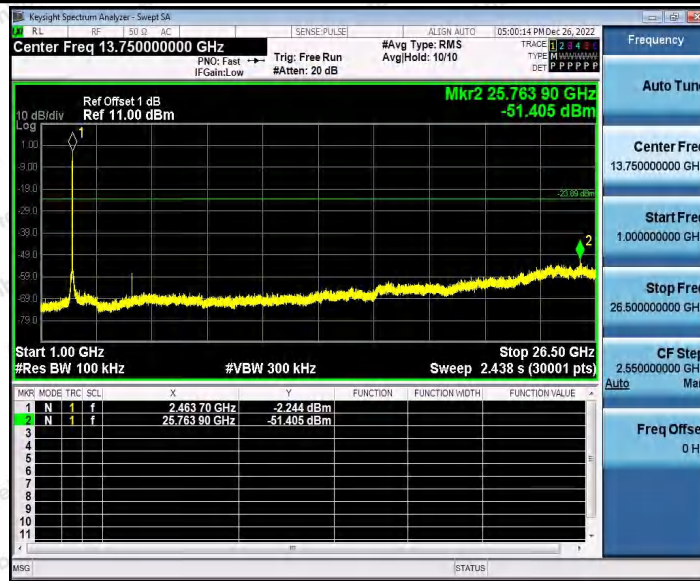
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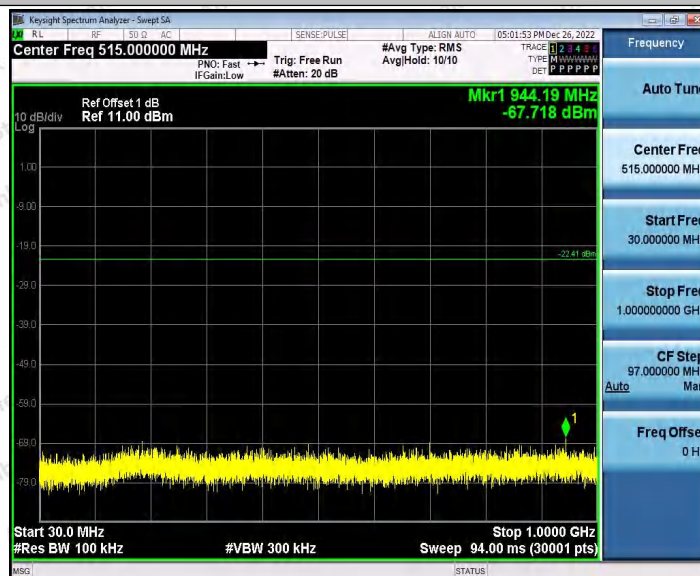




11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000



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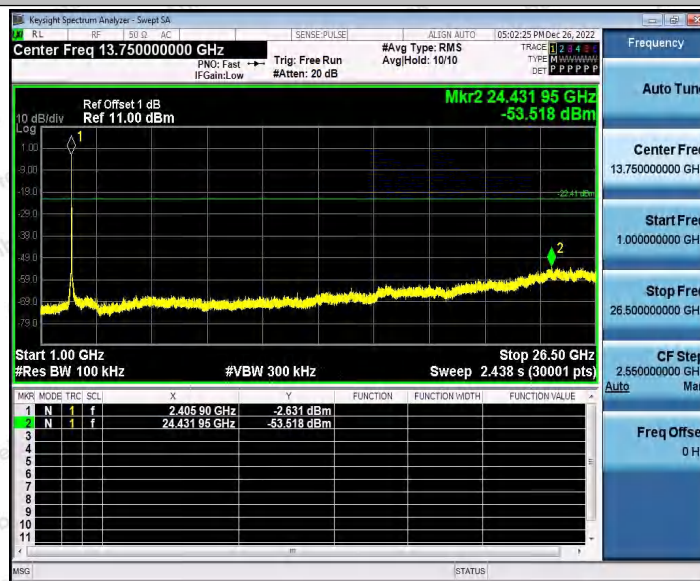
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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000

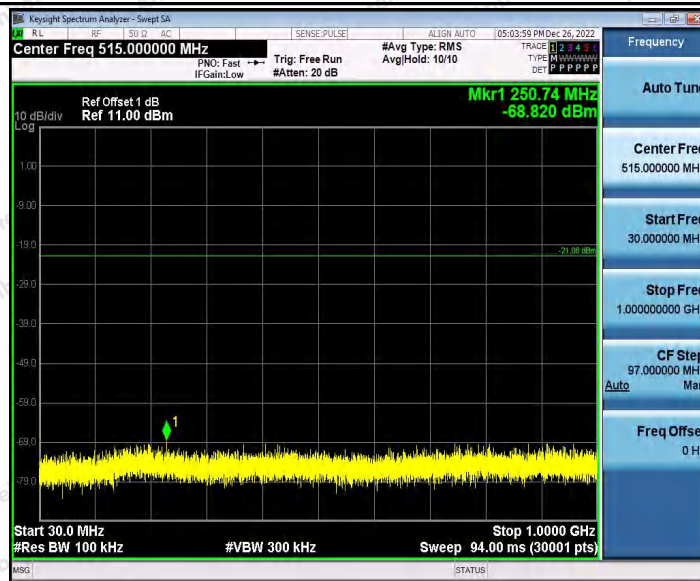
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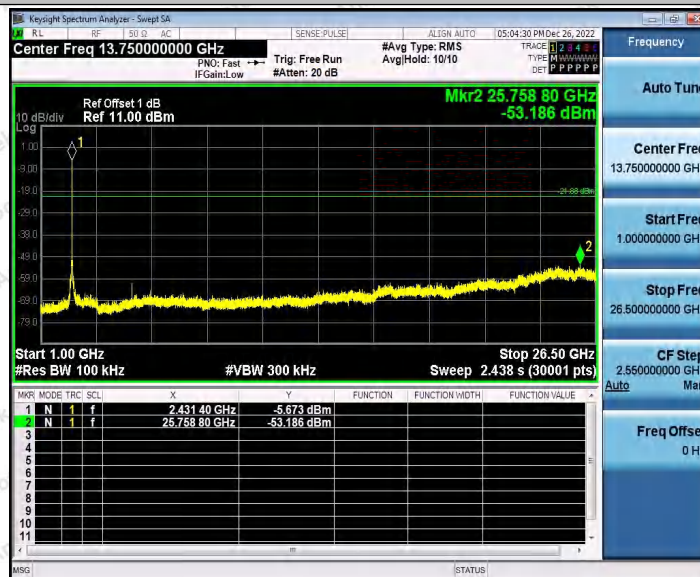


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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

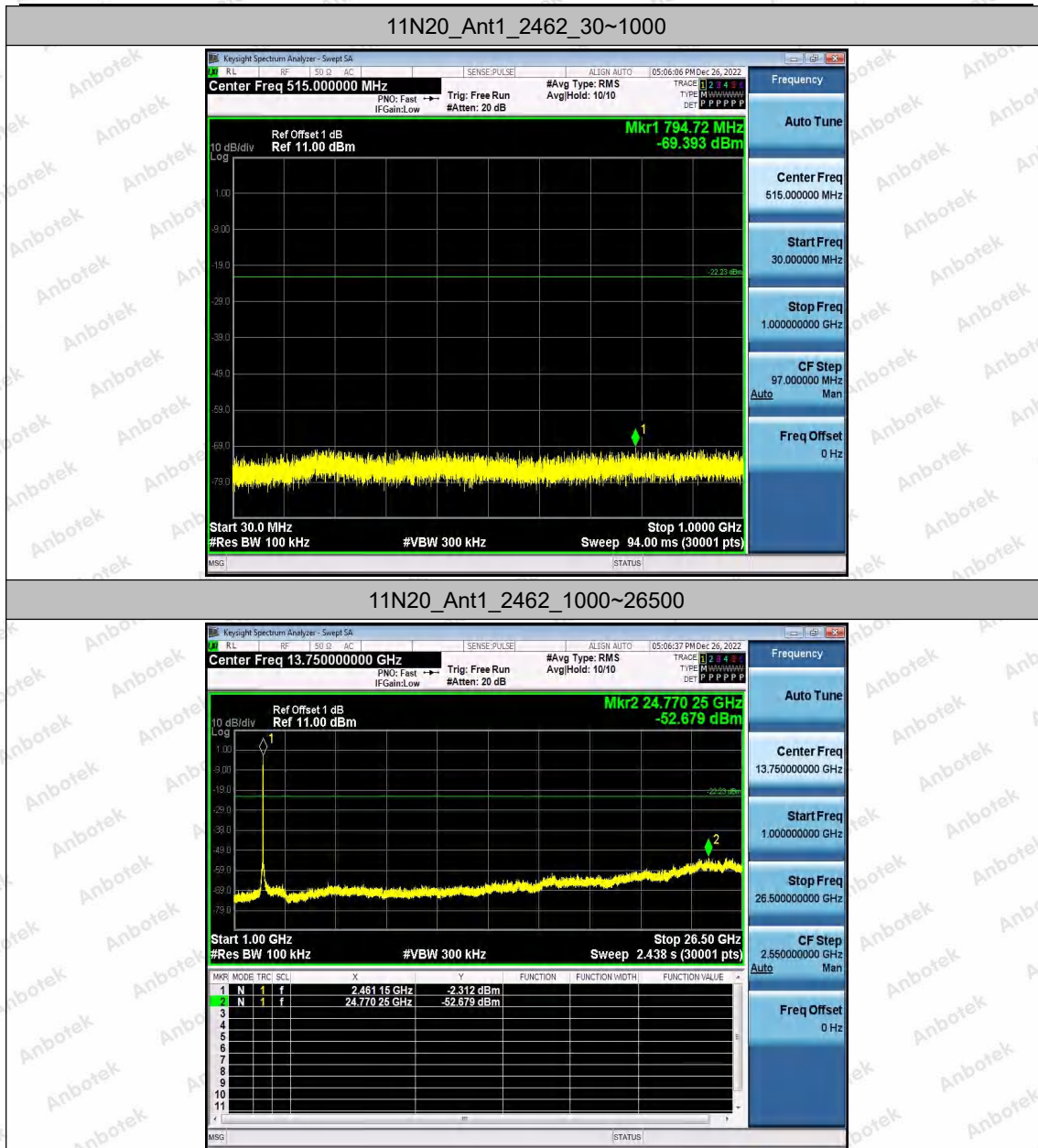


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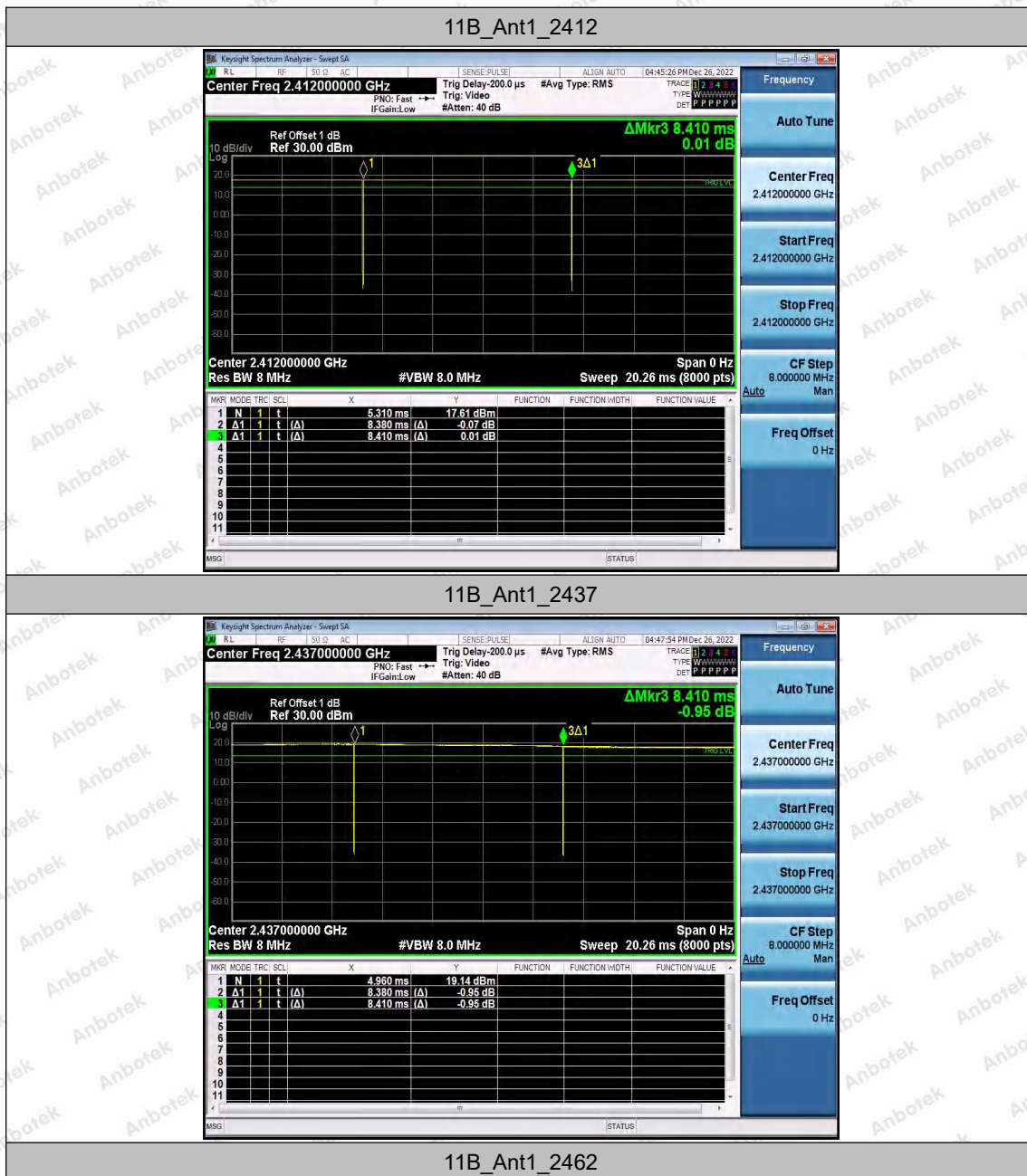
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.41	99.64	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11N20	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.34	97.01	0.13



Test Graphs



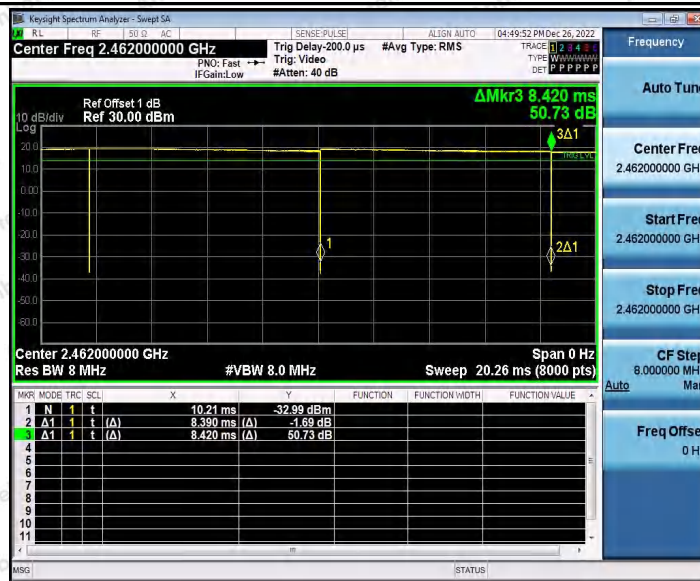
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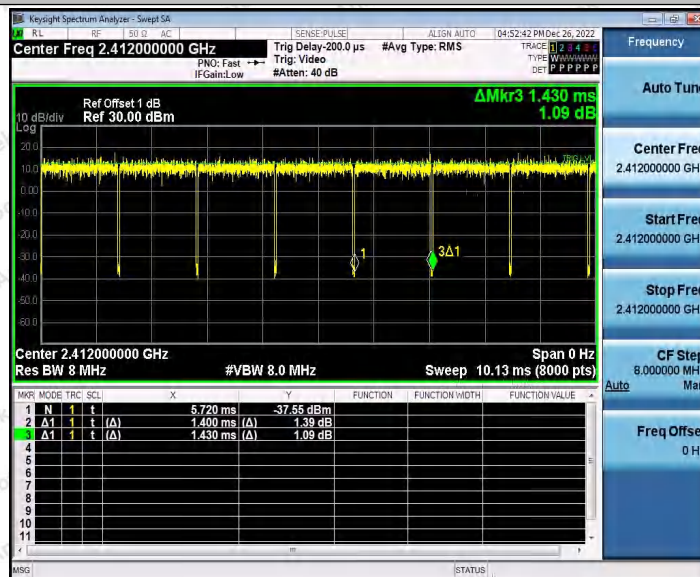


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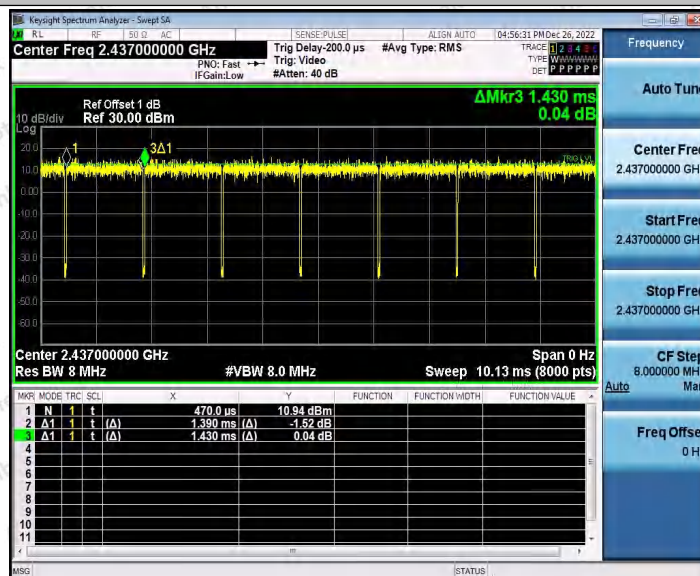




11G_Ant1_2412



11G_Ant1_2437



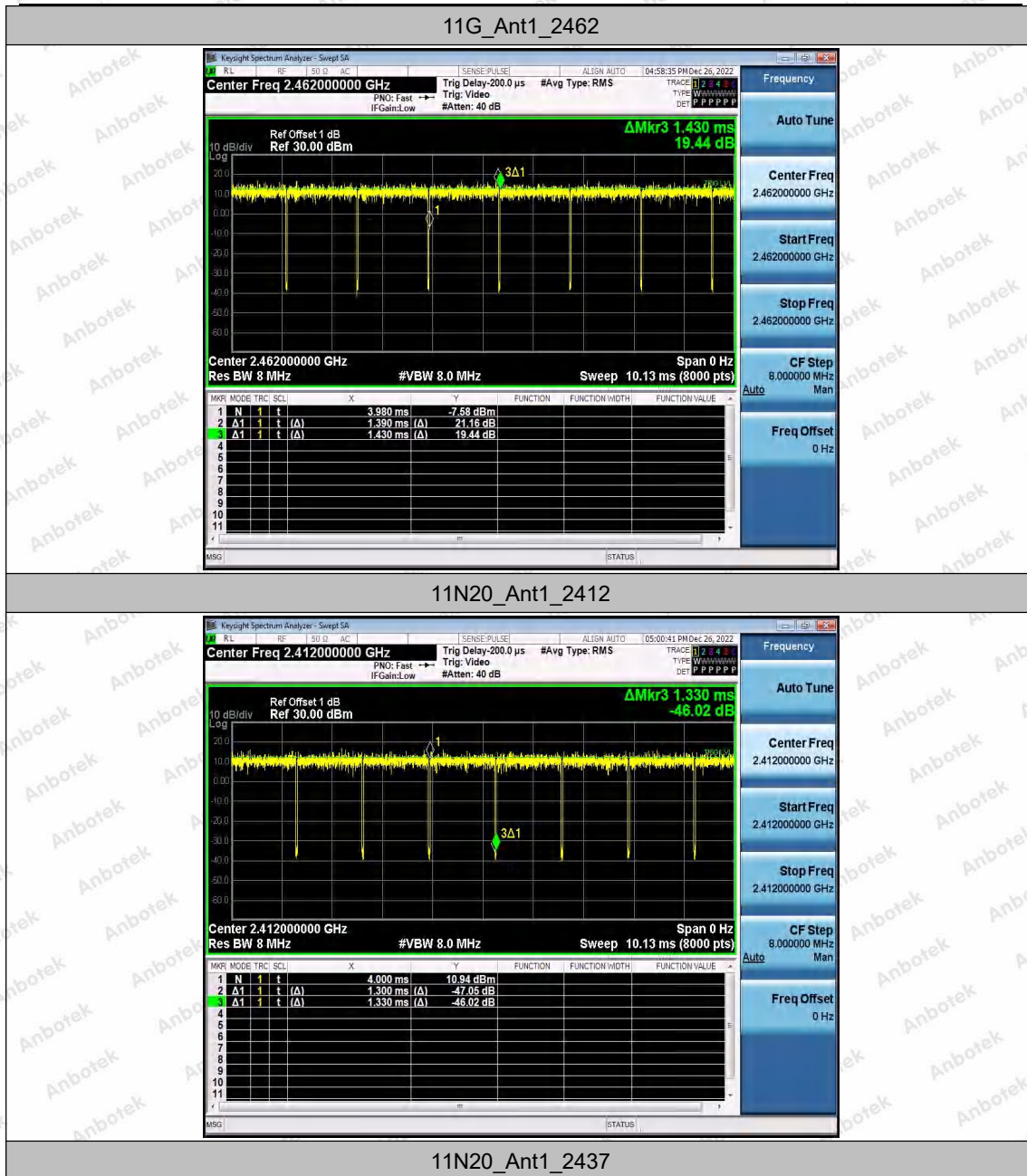
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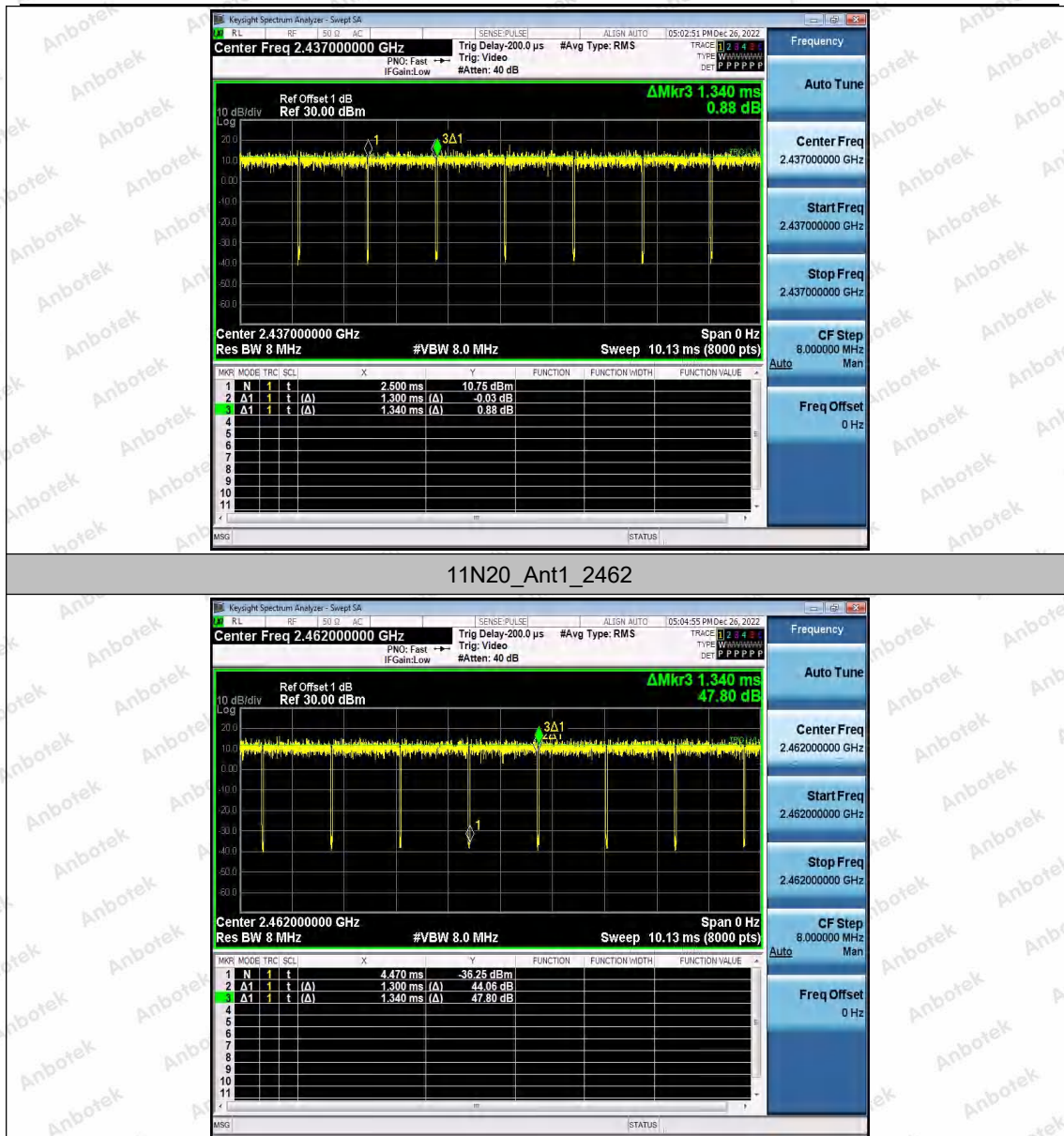
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