

Appendix Test Data

Report No.:	18220WC20241901	Test Sample No.:	1-2-2
Start Test Date:	2022.10.17	Finish Test Date:	2022.10.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
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	9.520	2432.000	2441.520	≥0.5	PASS
		2462	9.560	2457.480	2467.040	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	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
11N20	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.600	2453.200	2470.800	≥0.5	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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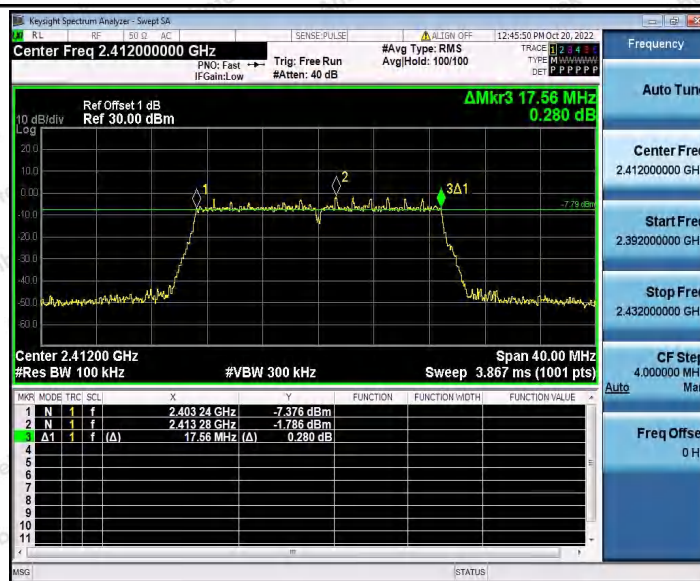


11G_Ant1_2462



11N20_Ant1_2412





11N20_Ant1_2437



11N20_Ant1_2462





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Appendix B: Occupied Channel Bandwidth

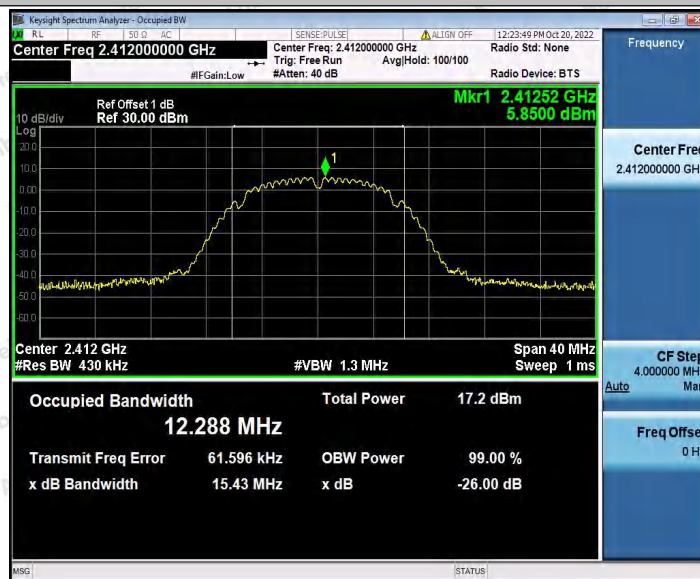
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.288	2405.9176	2418.2056
		2437	12.285	2430.9008	2443.1858
		2462	12.302	2455.8837	2468.1857
11G	Ant1	2412	17.117	2403.5017	2420.6187
		2437	17.006	2428.5175	2445.5235
		2462	17.044	2453.5179	2470.5619
11N20	Ant1	2412	17.941	2403.0831	2421.0241
		2437	17.987	2428.0615	2446.0485
		2462	17.978	2453.0574	2471.0354



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

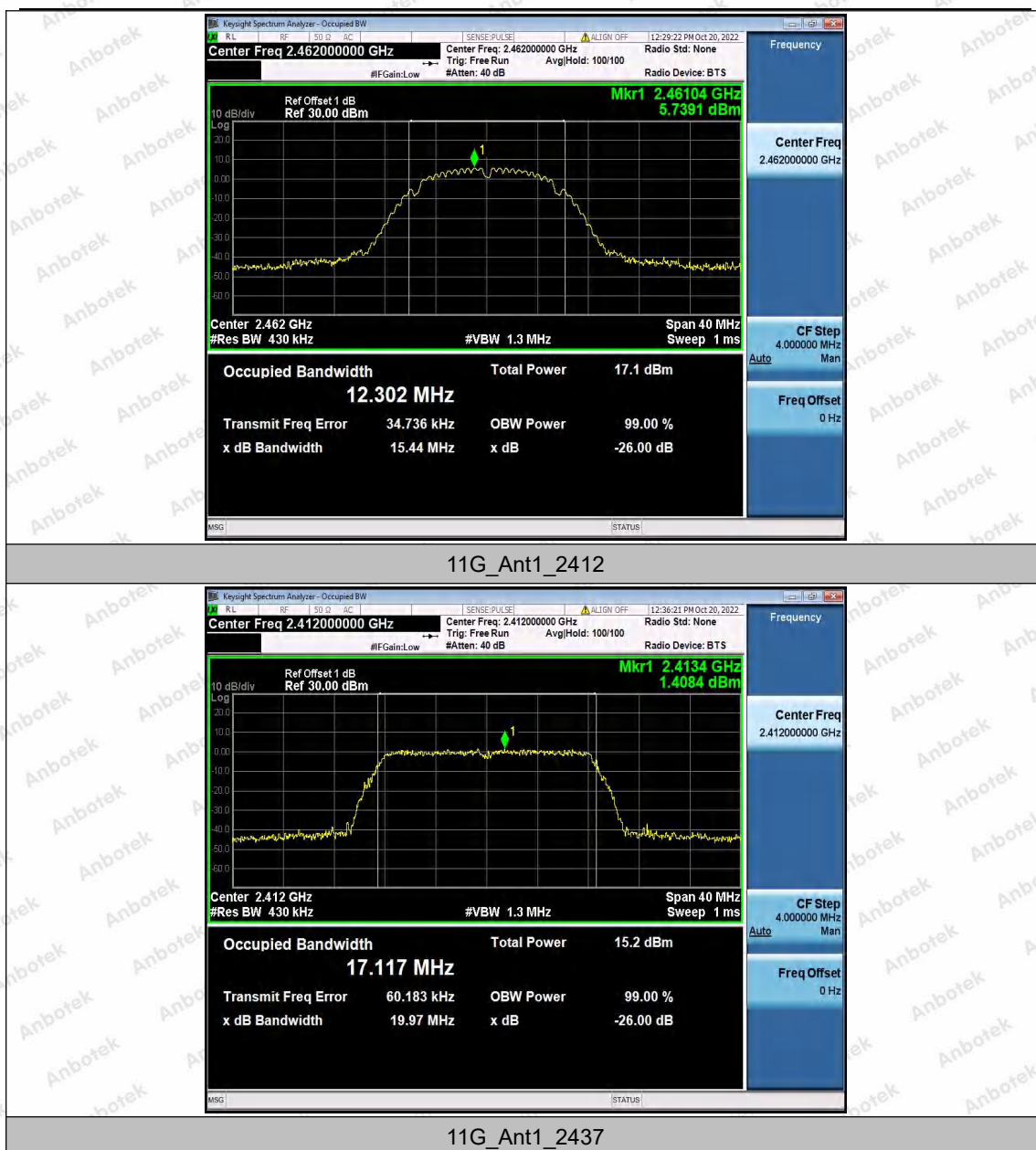
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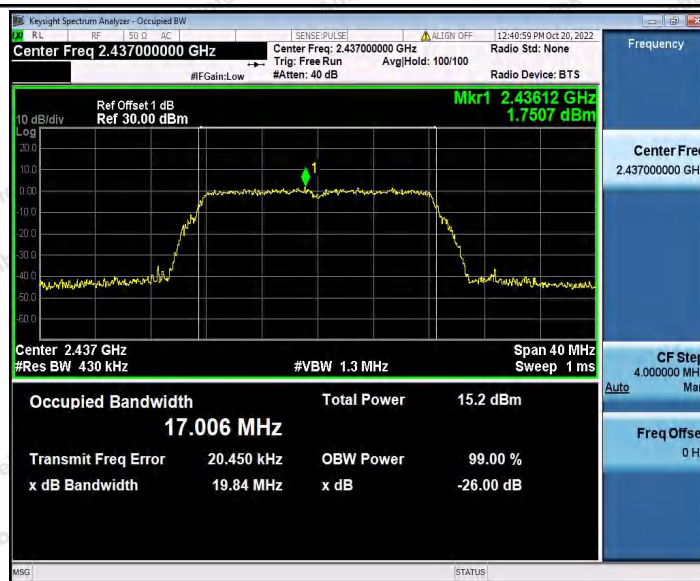
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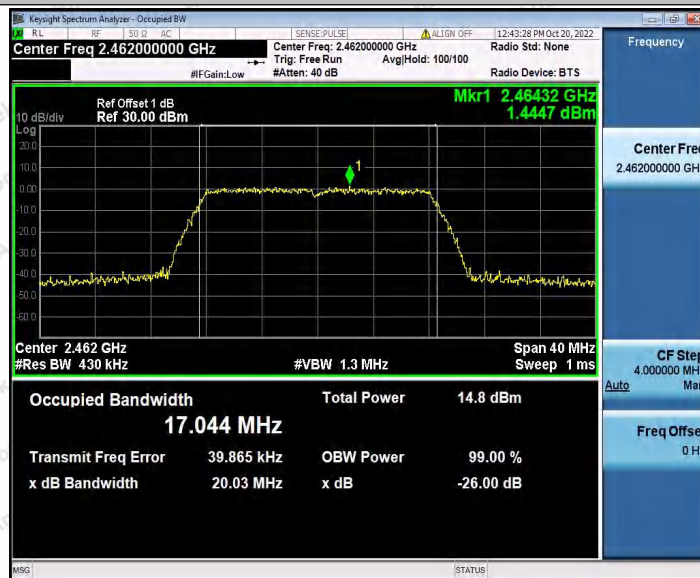


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11G_Ant1_2462



11N20_Ant1_2412

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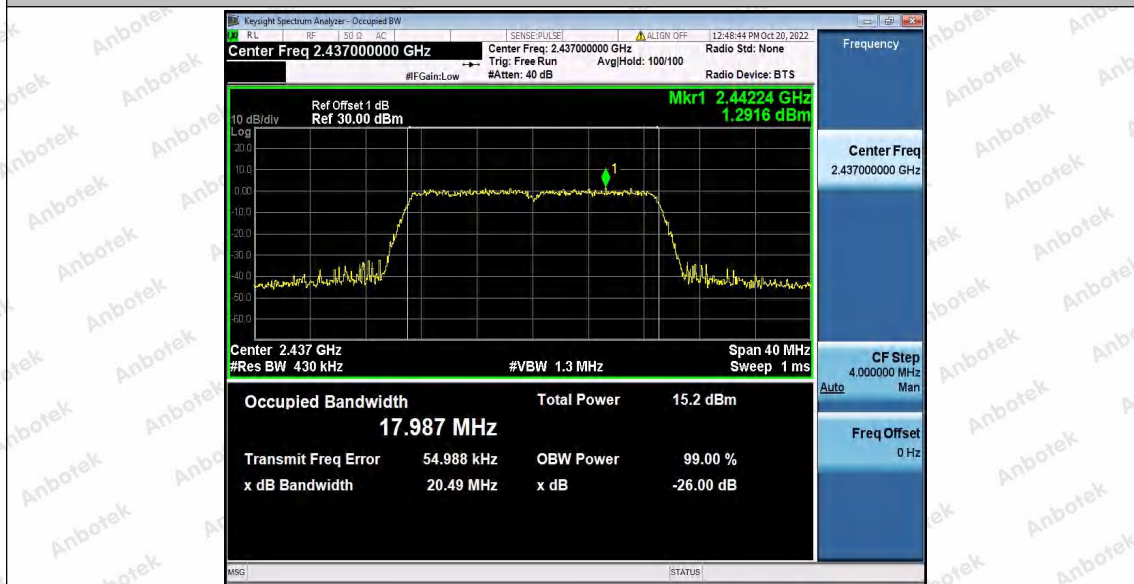


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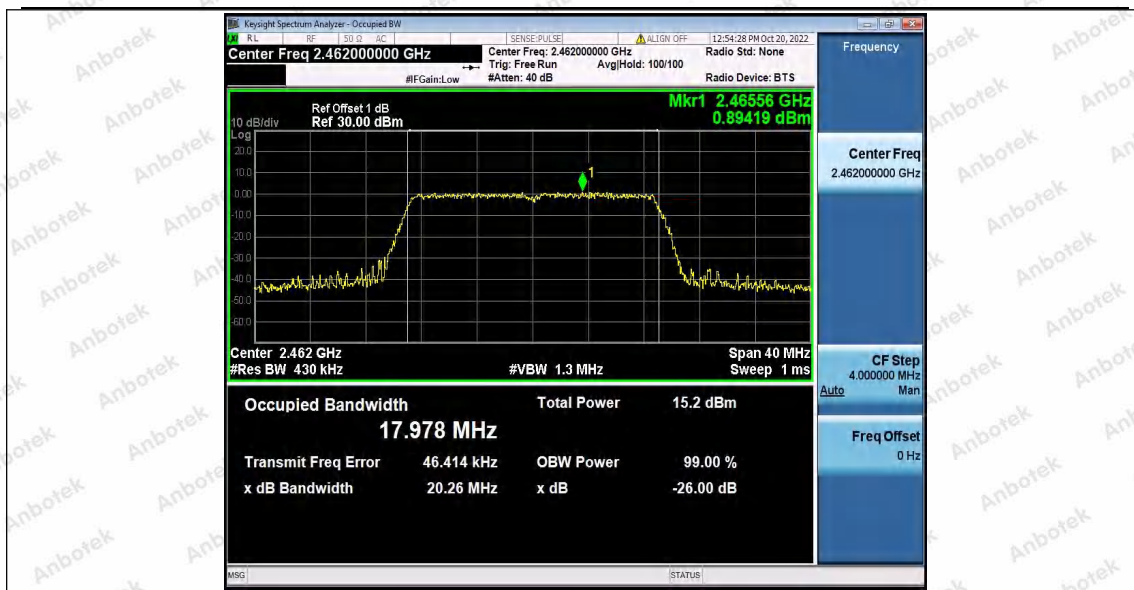


11N20_Ant1_2437



11N20_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	17.27	≤30.00
		2437	16.93	≤30.00
		2462	17.16	≤30.00
11G	Ant1	2412	16.35	≤30.00
		2437	16.41	≤30.00
		2462	16.12	≤30.00
11N20	Ant1	2412	16.22	≤30.00
		2437	16.37	≤30.00
		2462	16.41	≤30.00



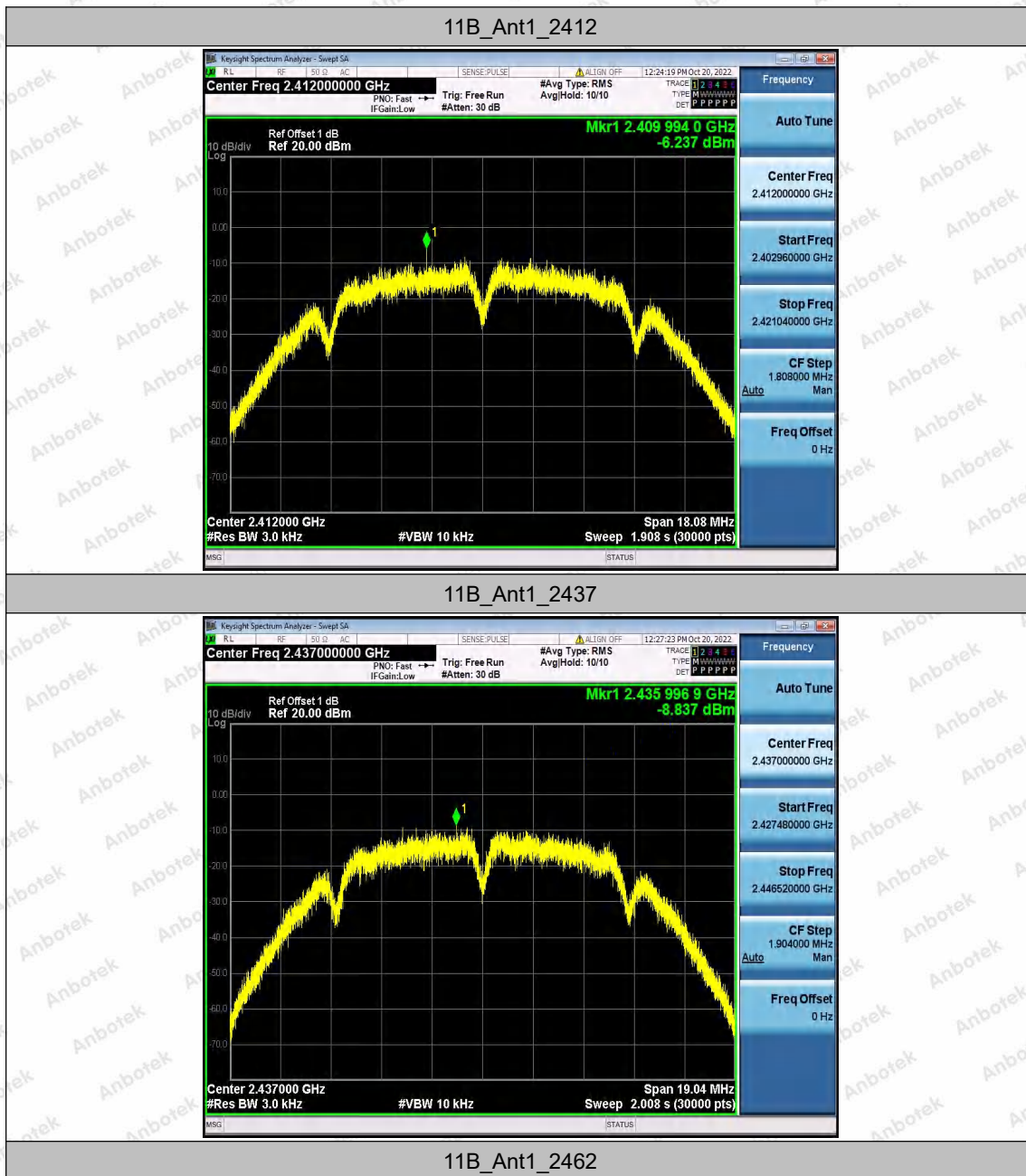
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.24	≤8.00	PASS
		2437	-8.84	≤8.00	PASS
		2462	-7.93	≤8.00	PASS
11G	Ant1	2412	-15.67	≤8.00	PASS
		2437	-14.54	≤8.00	PASS
		2462	-15.5	≤8.00	PASS
11N20	Ant1	2412	-15.01	≤8.00	PASS
		2437	-16.56	≤8.00	PASS
		2462	-14.82	≤8.00	PASS



Test Graphs



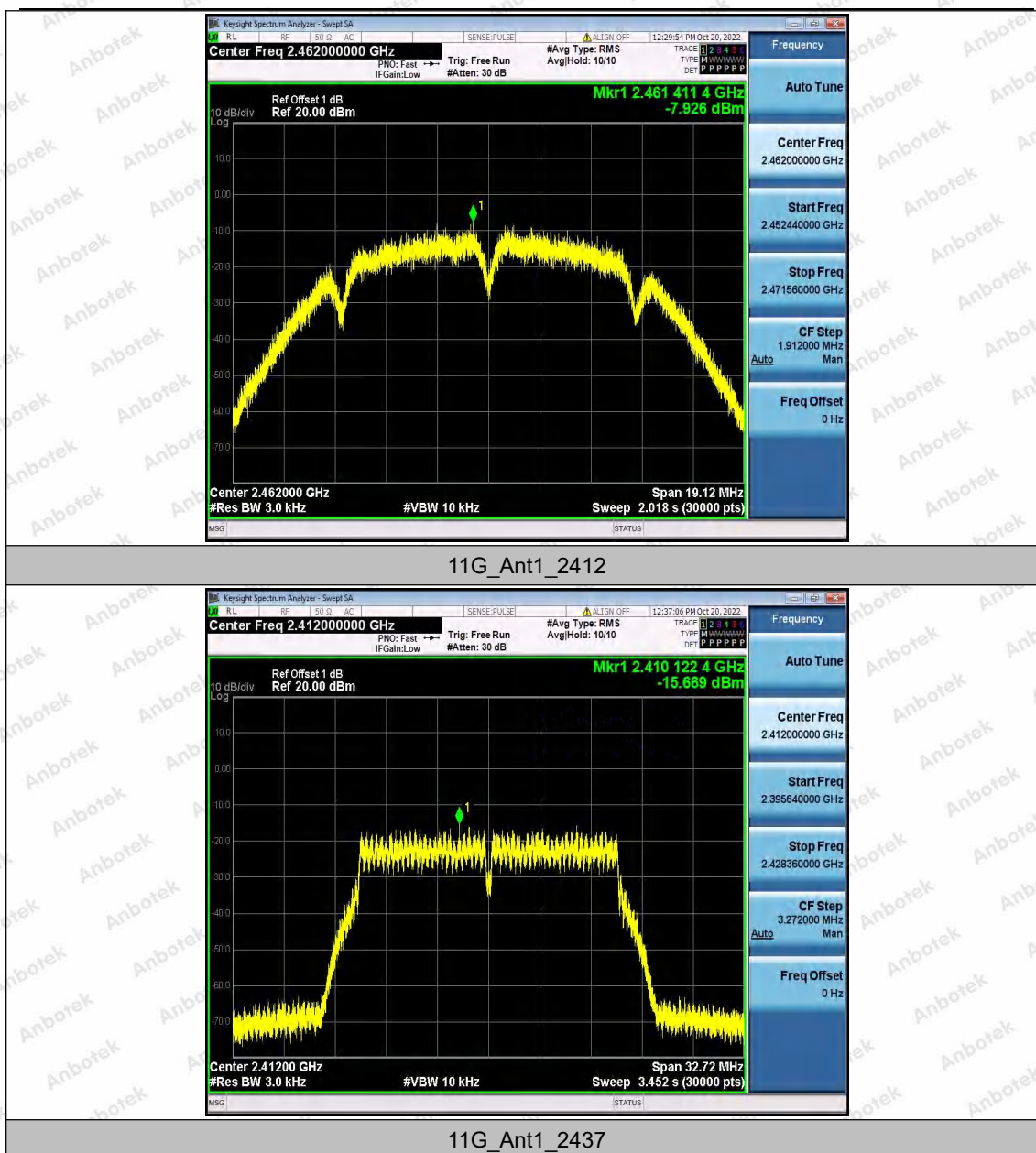
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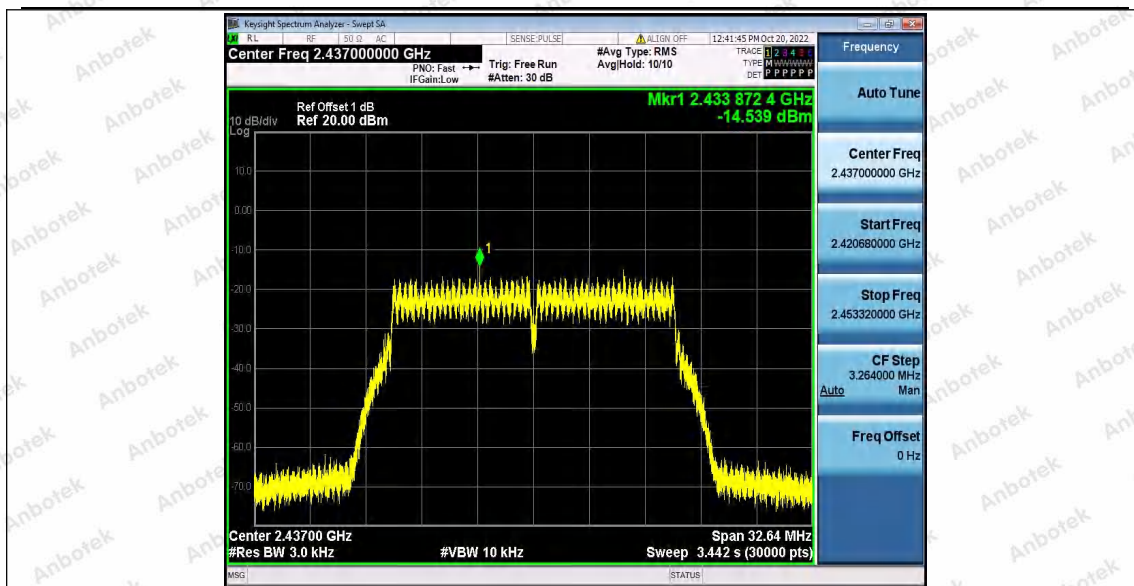
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11G_Ant1_2462



11N20_Ant1_2412

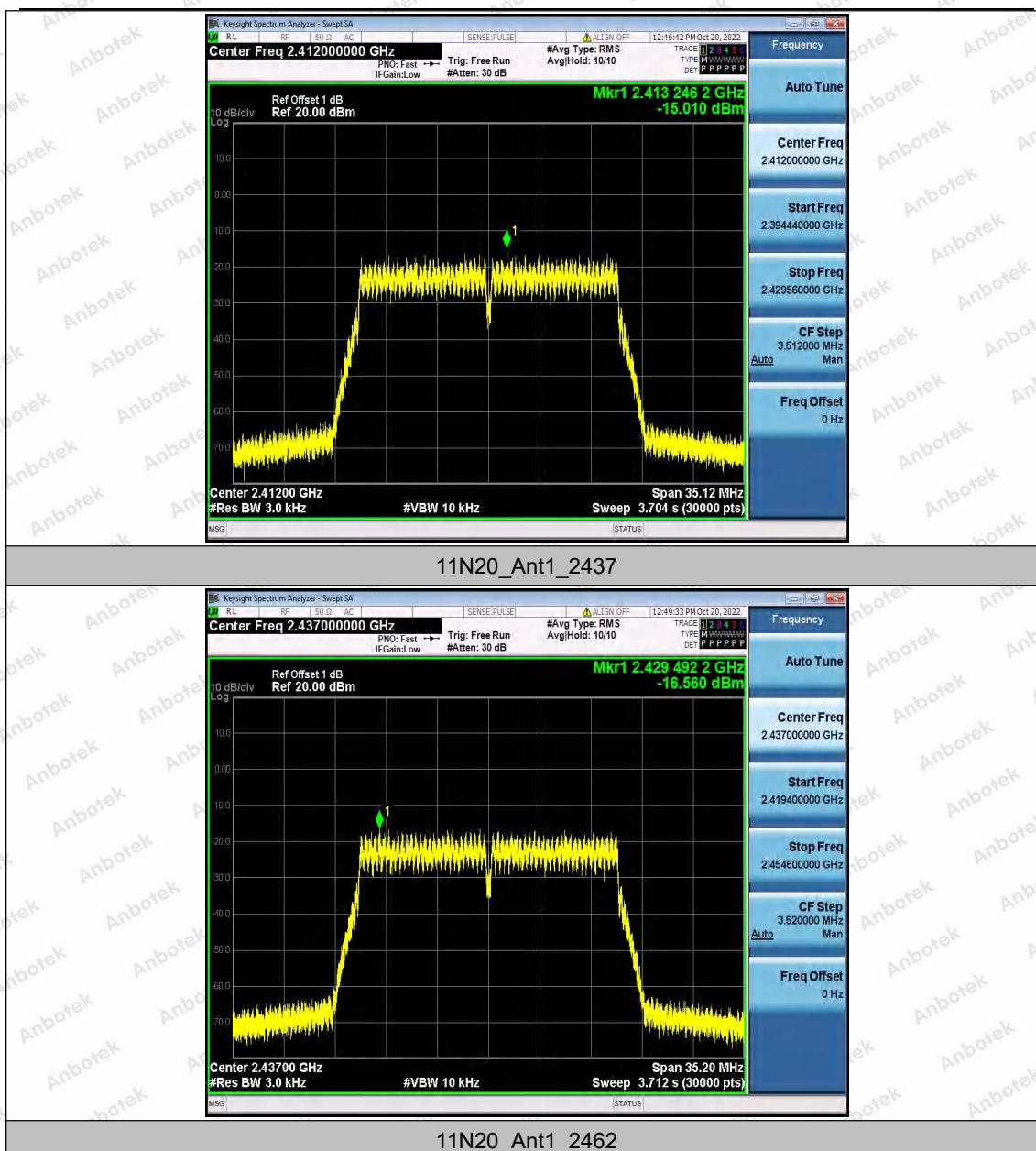
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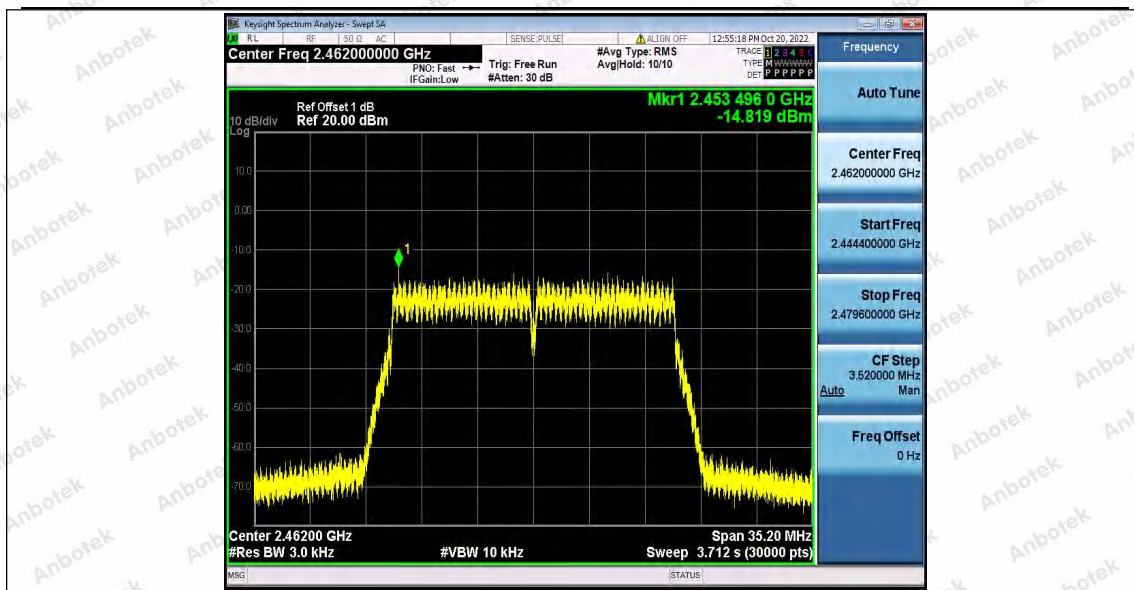
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Appendix E: Band edge measurements

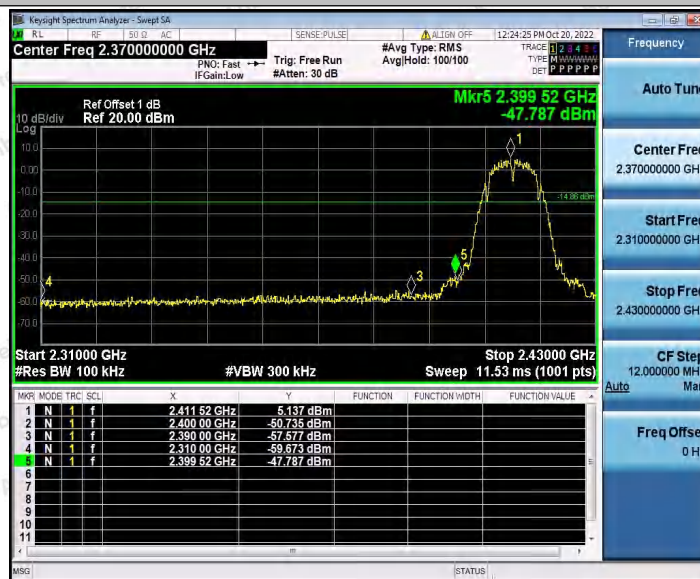
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.14	-47.79	≤-14.86	PASS
		High	2462	5.20	-55.3	≤-14.8	PASS
11G	Ant1	Low	2412	-1.69	-47.83	≤-21.69	PASS
		High	2462	-1.93	-54.19	≤-21.93	PASS
11N20	Ant1	Low	2412	-1.87	-45.24	≤-21.87	PASS
		High	2462	-2.81	-53.19	≤-22.81	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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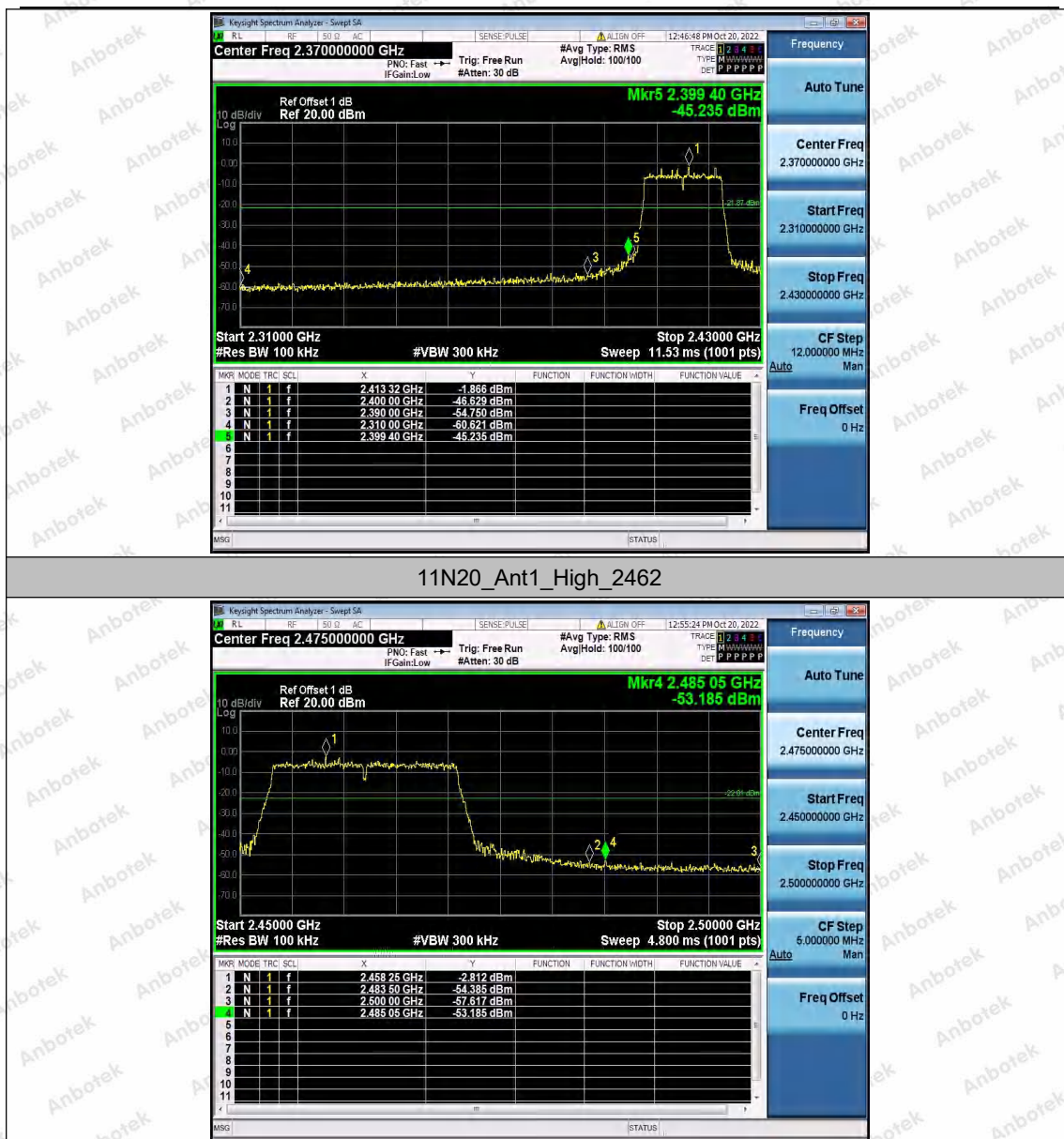


11G_Ant1_High_2462



11N20_Ant1_Low_2412





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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.72	5.72	---	PASS
			30~1000	5.72	-67.81	≤-14.28	PASS
			1000~26500	5.72	-53.77	≤-14.28	PASS
		2437	Reference	4.48	4.48	---	PASS
			30~1000	4.48	-69.45	≤-15.52	PASS
			1000~26500	4.48	-54.05	≤-15.52	PASS
		2462	Reference	3.94	3.94	---	PASS
			30~1000	3.94	-68.62	≤-16.06	PASS
			1000~26500	3.94	-52.29	≤-16.06	PASS
11G	Ant1	2412	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-68.7	≤-22.46	PASS
			1000~26500	-2.46	-53.22	≤-22.46	PASS
		2437	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-64.03	≤-22.86	PASS
			1000~26500	-2.86	-48.99	≤-22.86	PASS
		2462	Reference	-2.52	-2.52	---	PASS
			30~1000	-2.52	-68.68	≤-22.52	PASS
			1000~26500	-2.52	-52.96	≤-22.52	PASS
11N20	Ant1	2412	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-68.2	≤-25.79	PASS
			1000~26500	-5.79	-53.61	≤-25.79	PASS
		2437	Reference	-5.84	-5.84	---	PASS
			30~1000	-5.84	-68.28	≤-25.84	PASS
			1000~26500	-5.84	-53.16	≤-25.84	PASS
		2462	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-46.54	≤-22.77	PASS
			1000~26500	-2.77	-54.35	≤-22.77	PASS

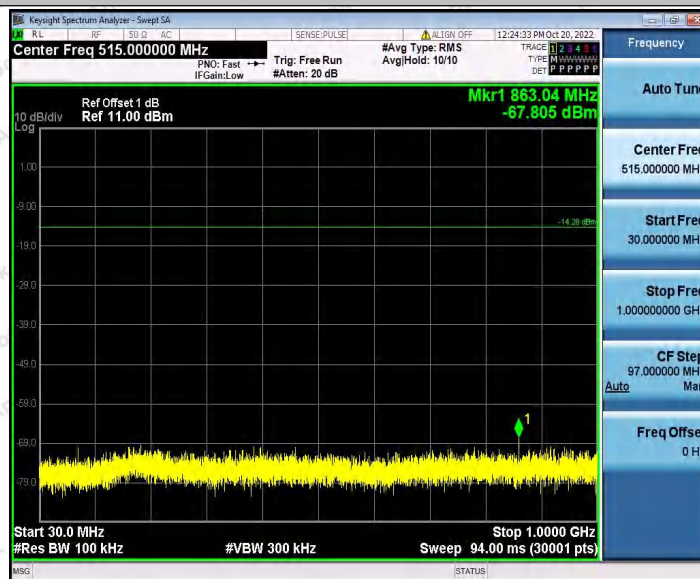


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

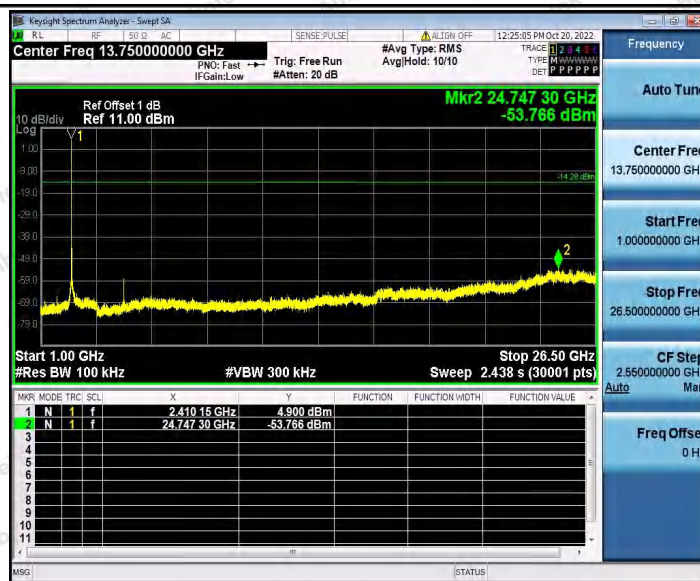
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

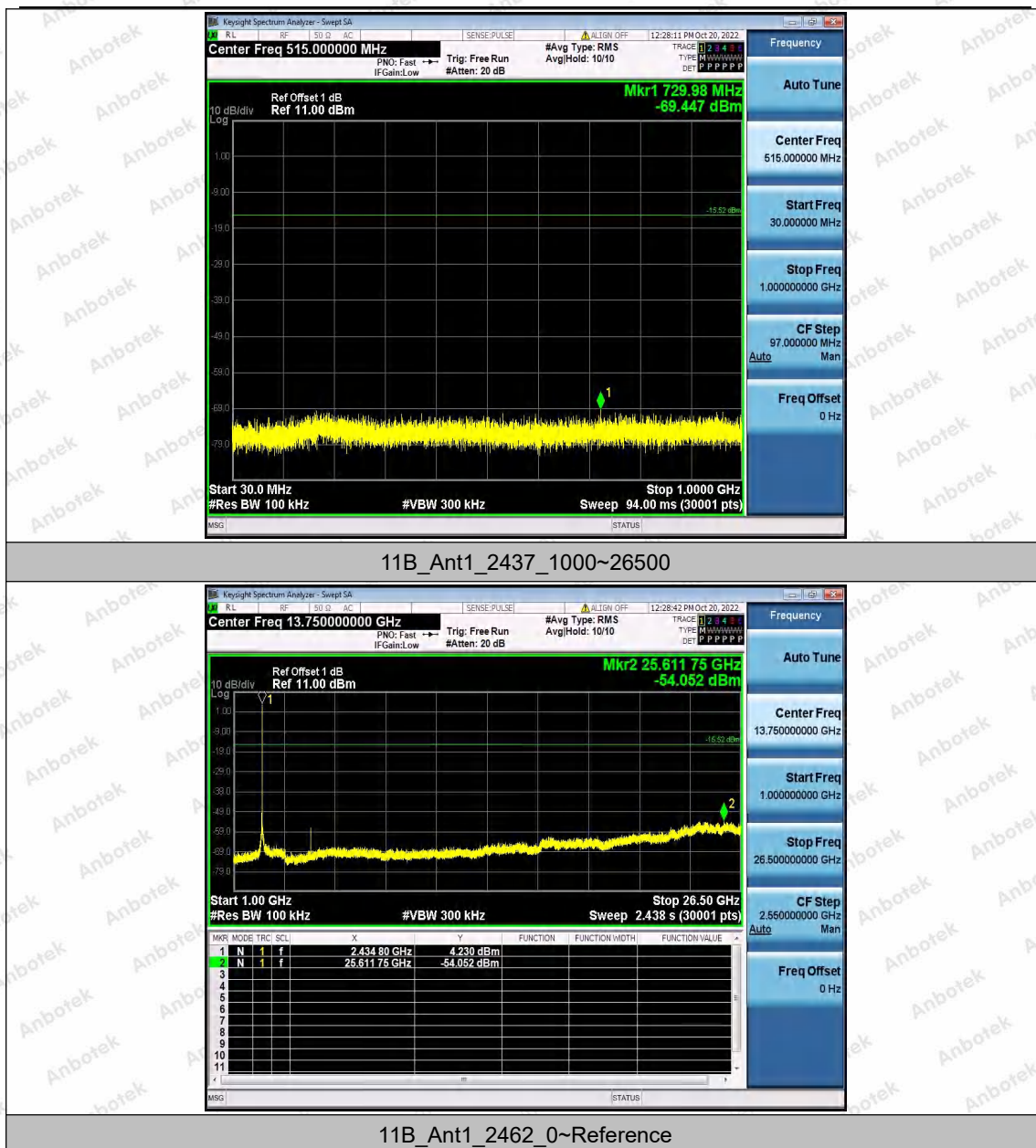
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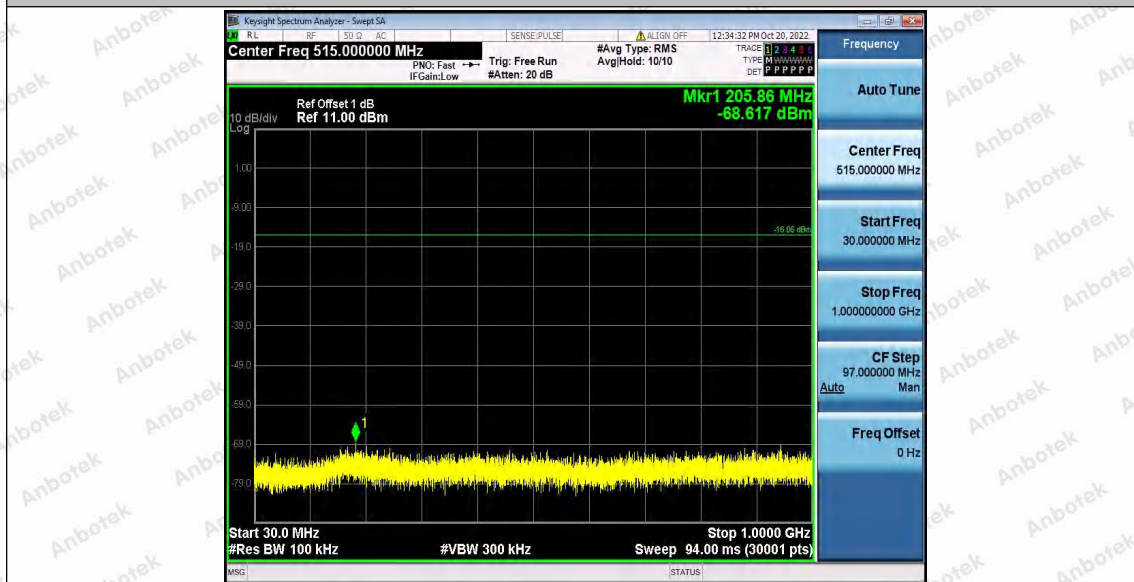


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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

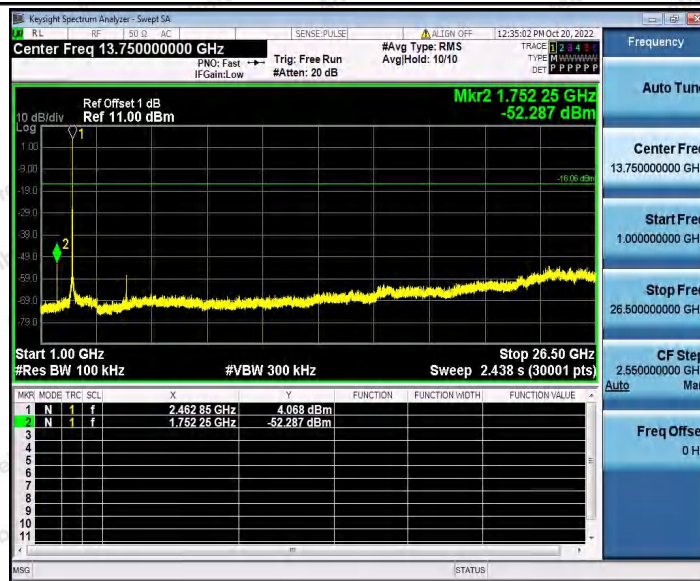
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

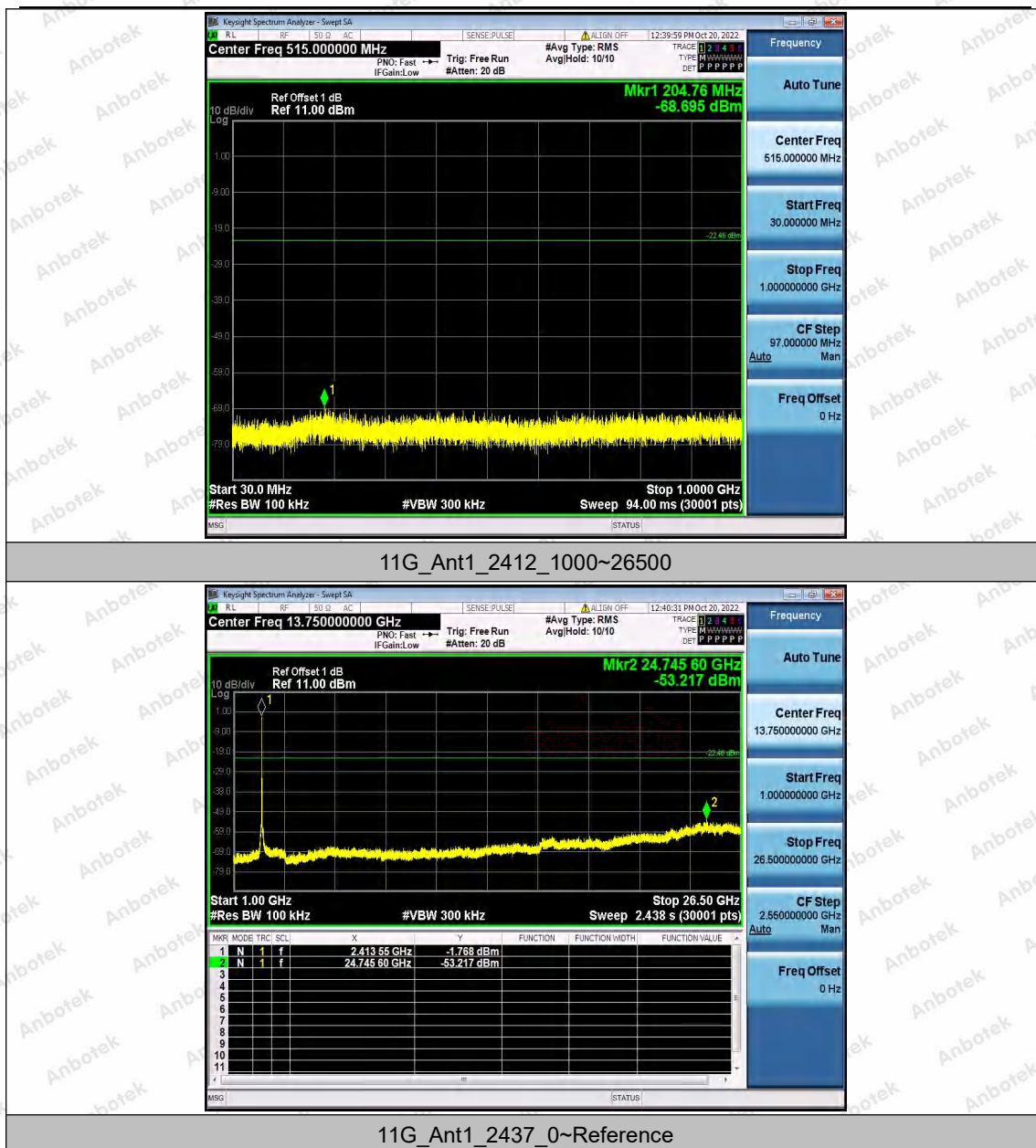
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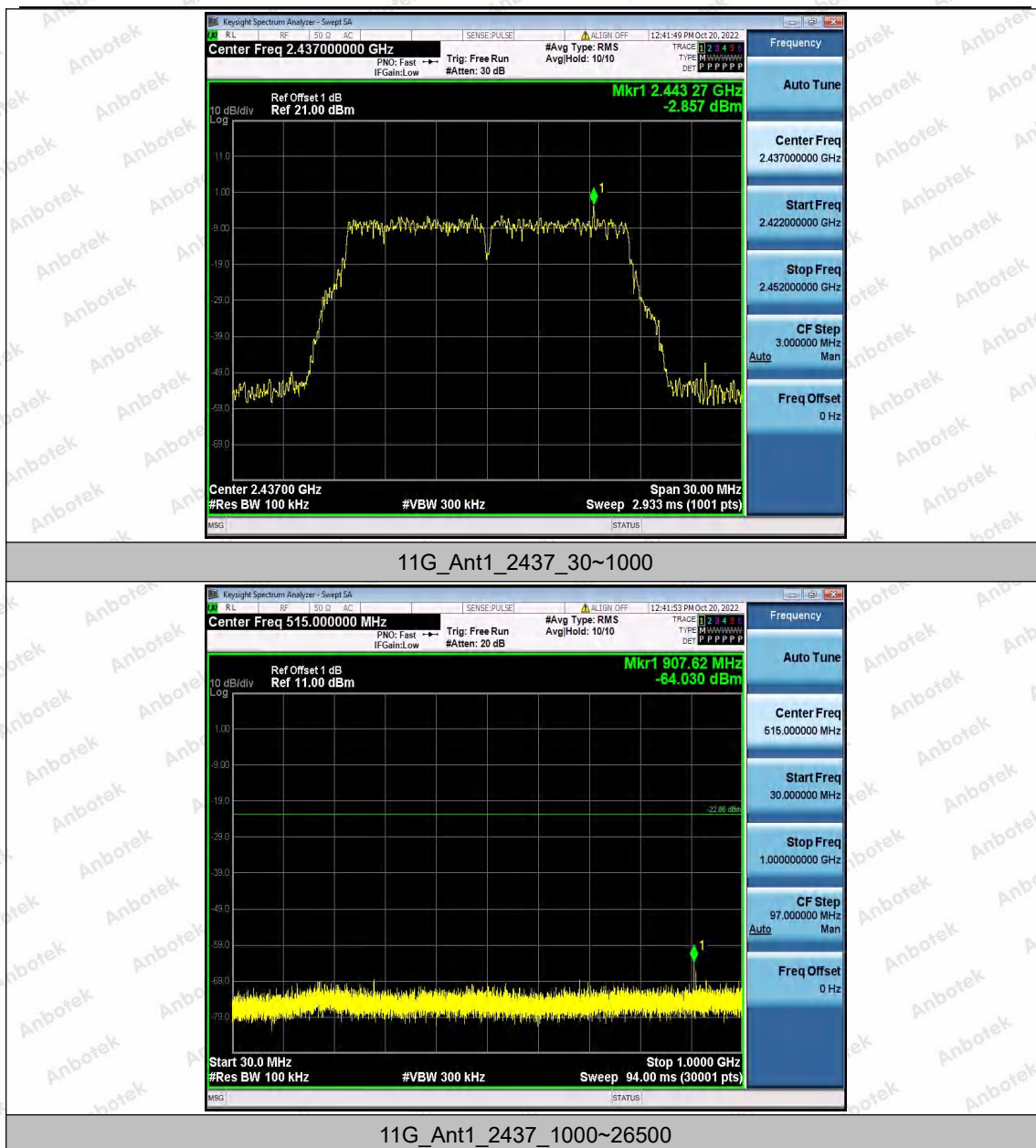
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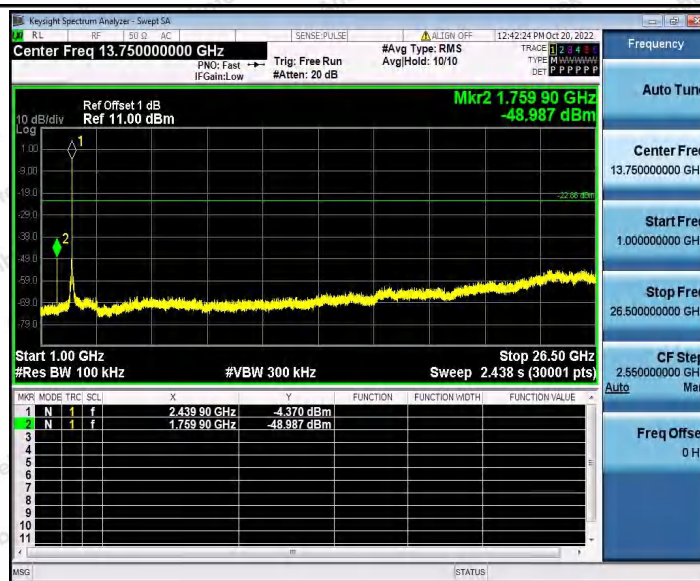
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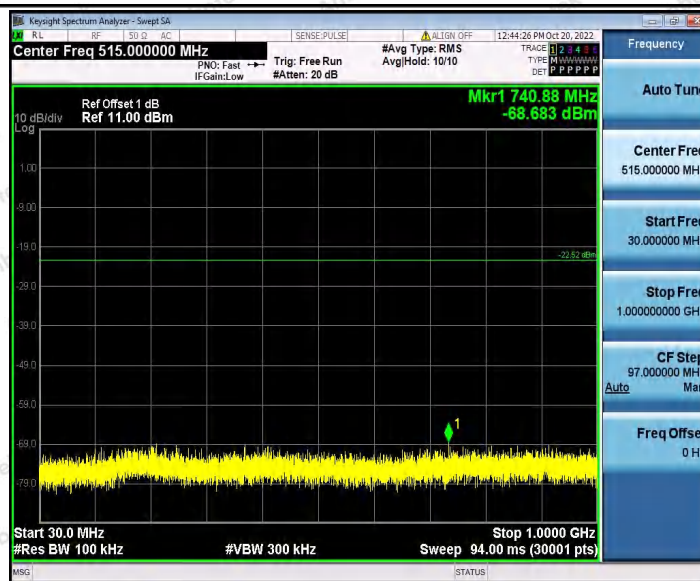


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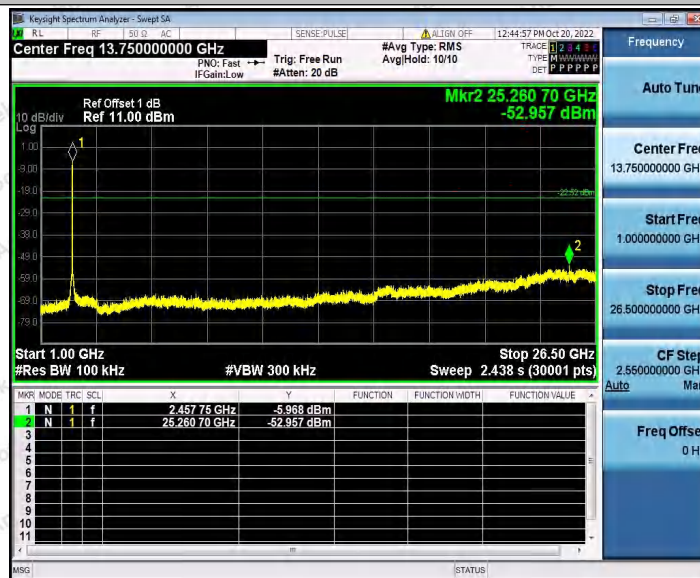


11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500

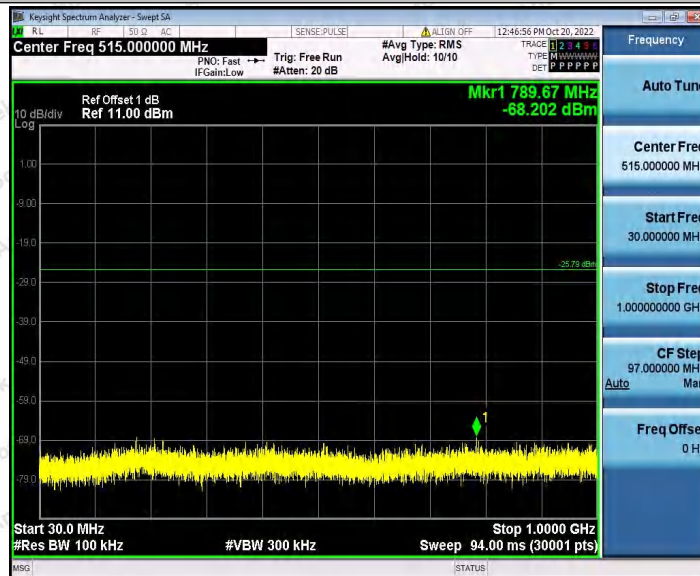


11N20_Ant1_2412_0~Reference





11N20_Ant1_2412_30~1000



11N20_Ant1_2412_1000~26500

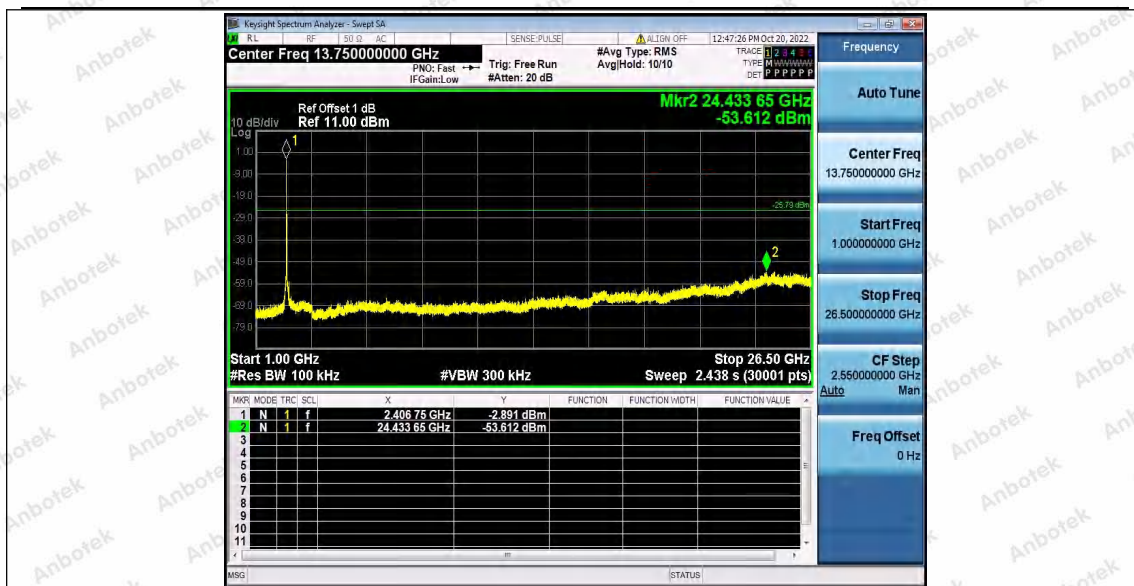
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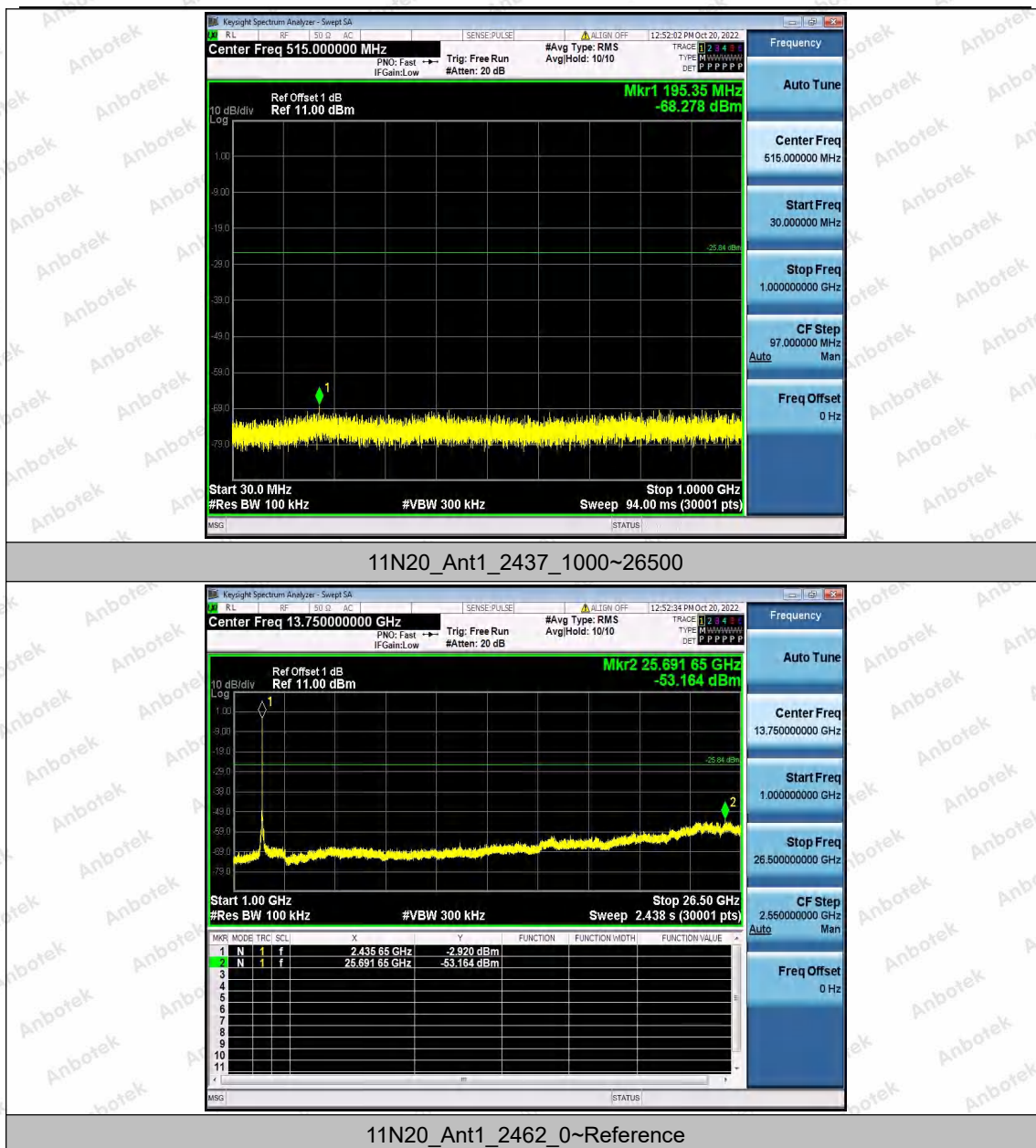


11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000



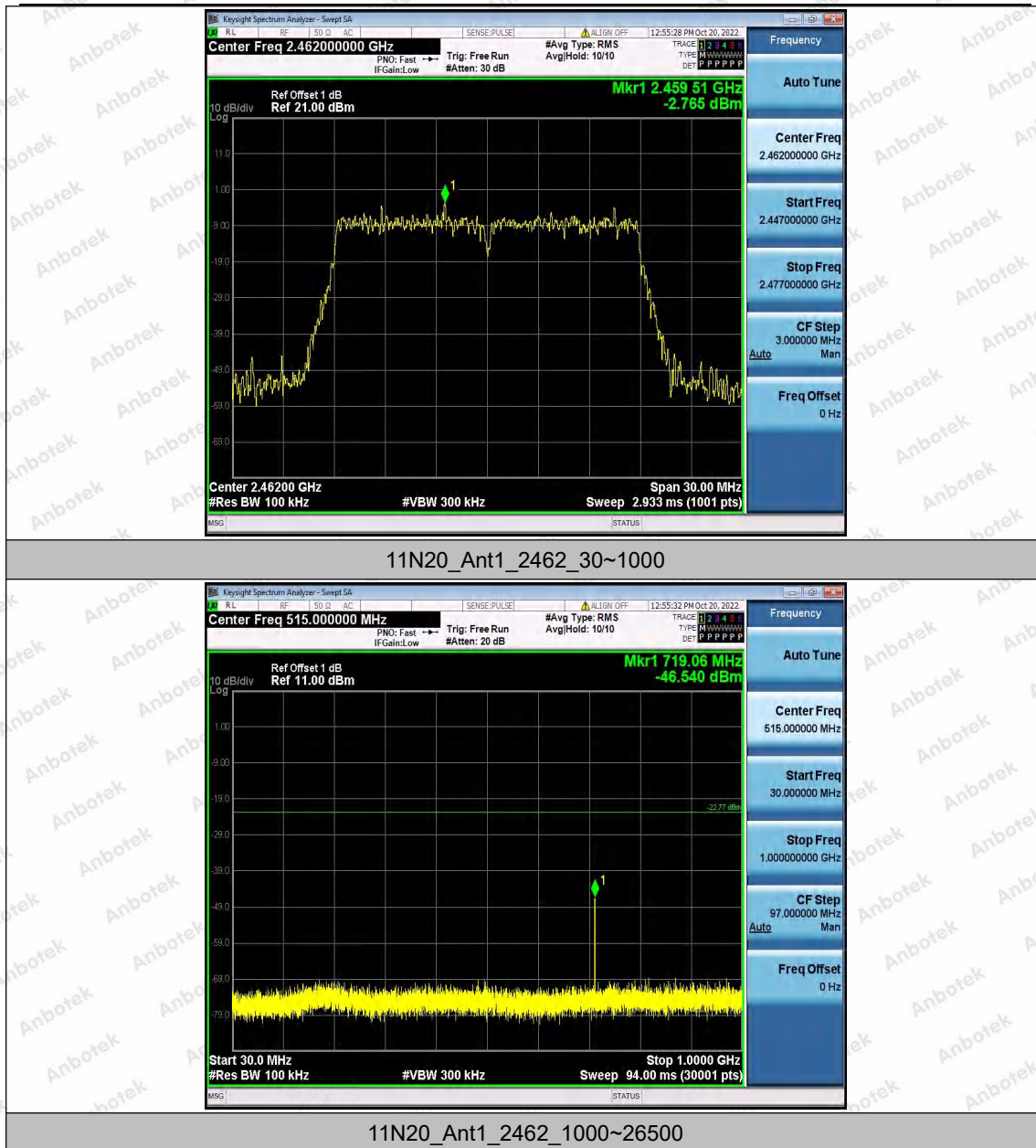
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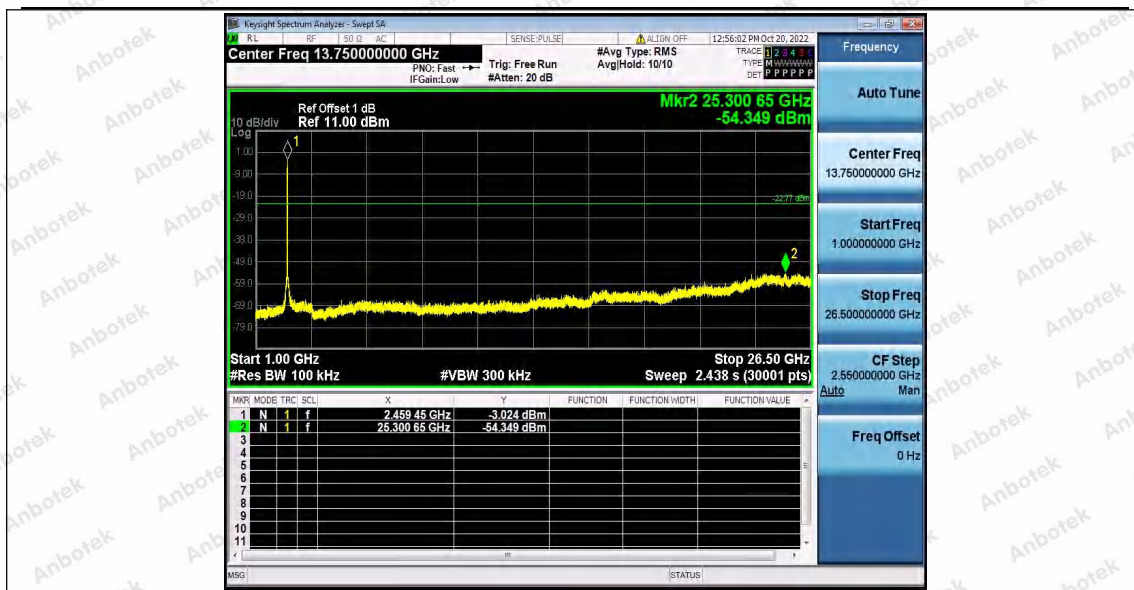
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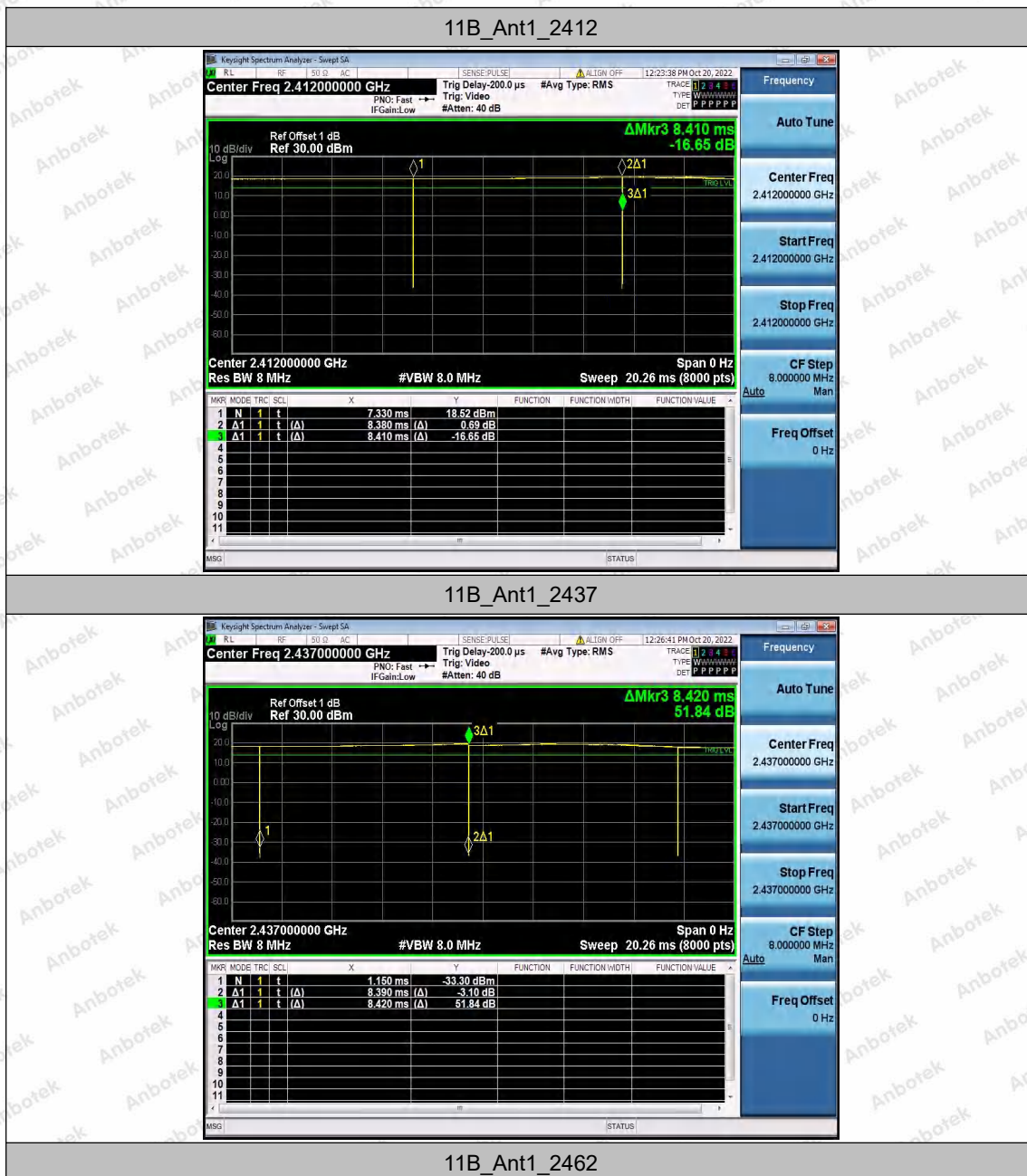
Appendix G: Duty Cycle

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	8.39	8.42	99.64	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.40	1.43	97.90	0.09
		2462	1.39	1.43	97.20	0.12
11N20	Ant1	2412	1.29	1.33	96.99	0.13
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.34	97.01	0.13



Test Graphs



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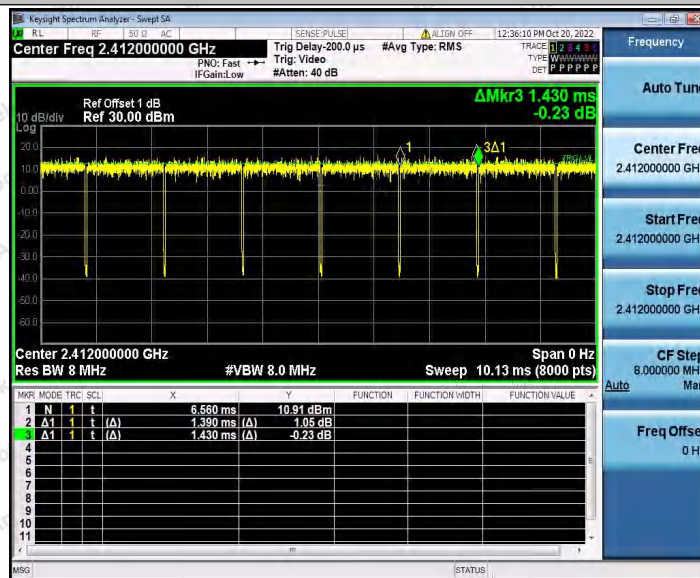


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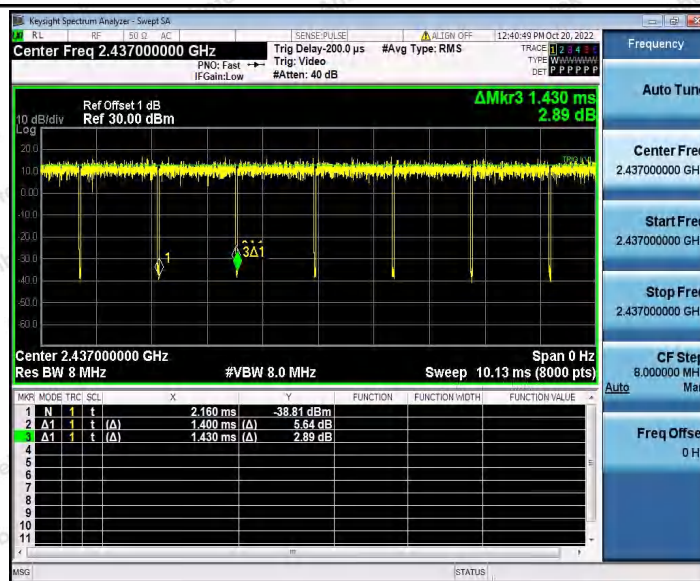


11G_Ant1_2412

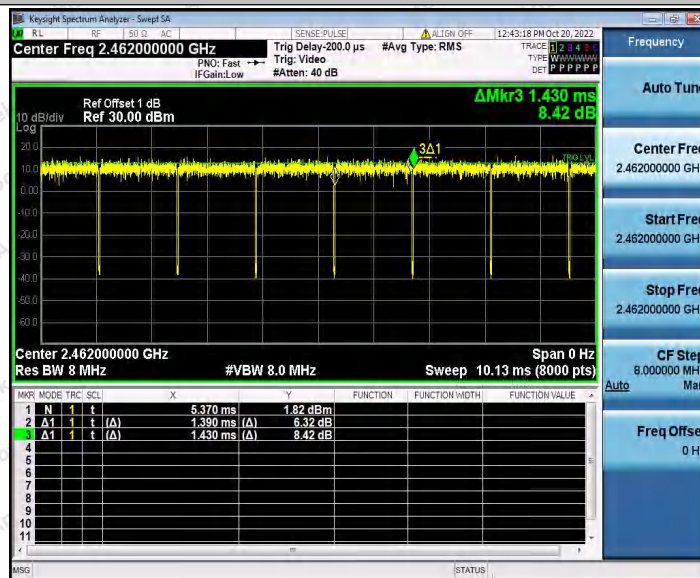


11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412

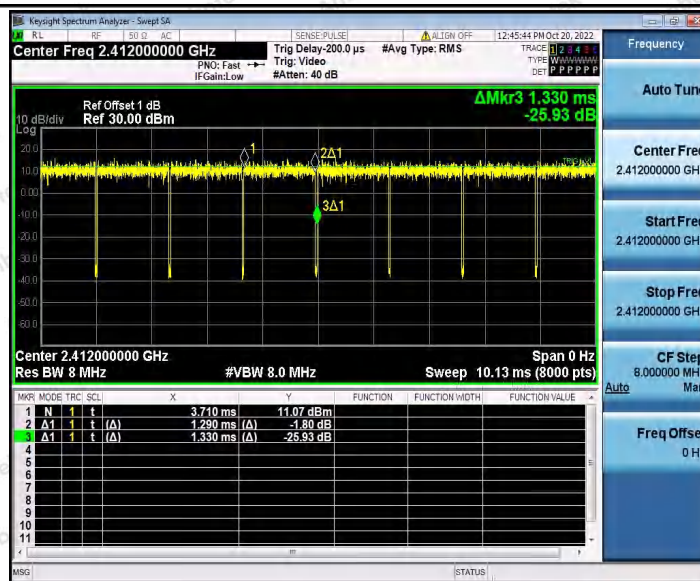
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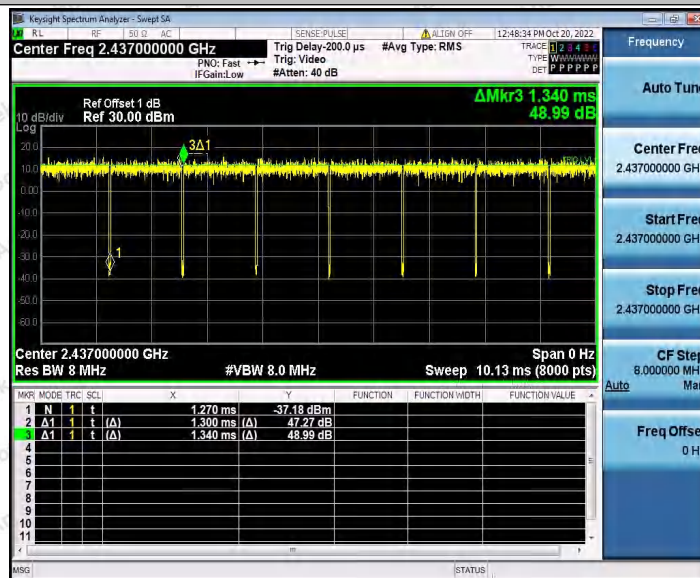


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11N20_Ant1_2437



11N20_Ant1_2462

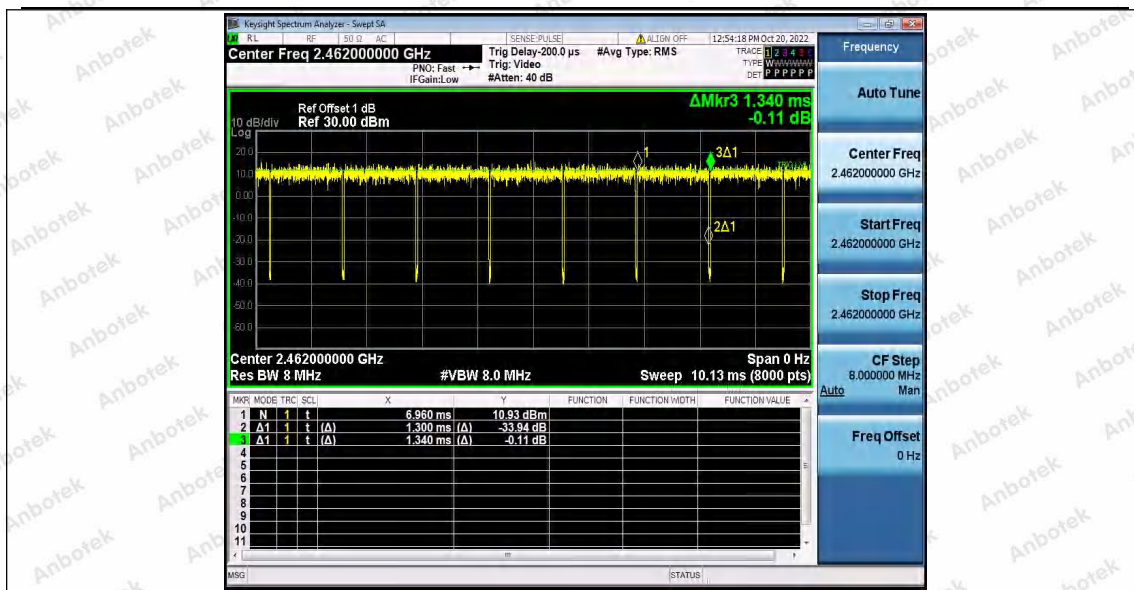
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