

Appendix Test Data

Report No.:	18220WC20240402	Test Sample No.:	1-2-2
Start Test Date:	2022.11.10	Finish Test Date:	2022.11.16
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3C°	Relative Humidity:	46 %
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	8.560	2407.480	2416.040	≥0.5	PASS
		2437	8.000	2433.000	2441.000	≥0.5	PASS
		2462	8.520	2458.000	2466.520	≥0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	≥0.5	PASS
		2437	16.320	2428.840	2445.160	≥0.5	PASS
		2462	16.400	2453.800	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.080	2403.440	2420.520	≥0.5	PASS
		2437	16.840	2428.480	2445.320	≥0.5	PASS
		2462	17.200	2453.200	2470.400	≥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



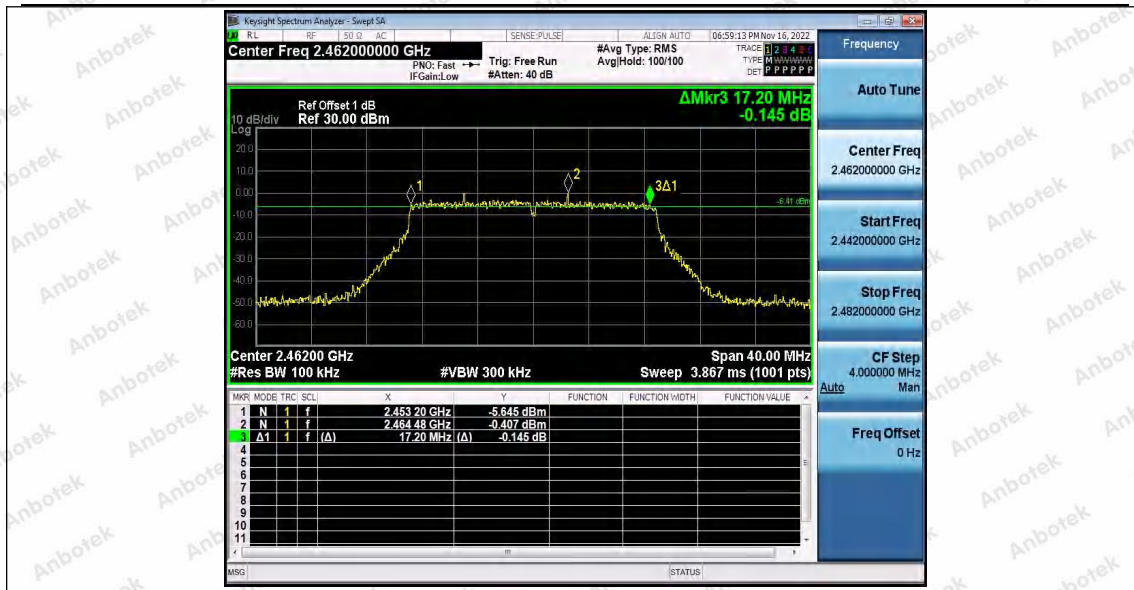


11N20_Ant1_2437



11N20_Ant1_2462





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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	13.328	2405.3592	2418.6872
		2437	13.325	2430.3382	2443.6632
		2462	13.316	2455.3231	2468.6391
11G	Ant1	2412	17.045	2403.4258	2420.4708
		2437	17.028	2428.5019	2445.5299
		2462	16.995	2453.4840	2470.4790
11N20	Ant1	2412	18.009	2403.0330	2421.0420
		2437	18.000	2428.0183	2446.0183
		2462	18.007	2452.9975	2471.0045



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

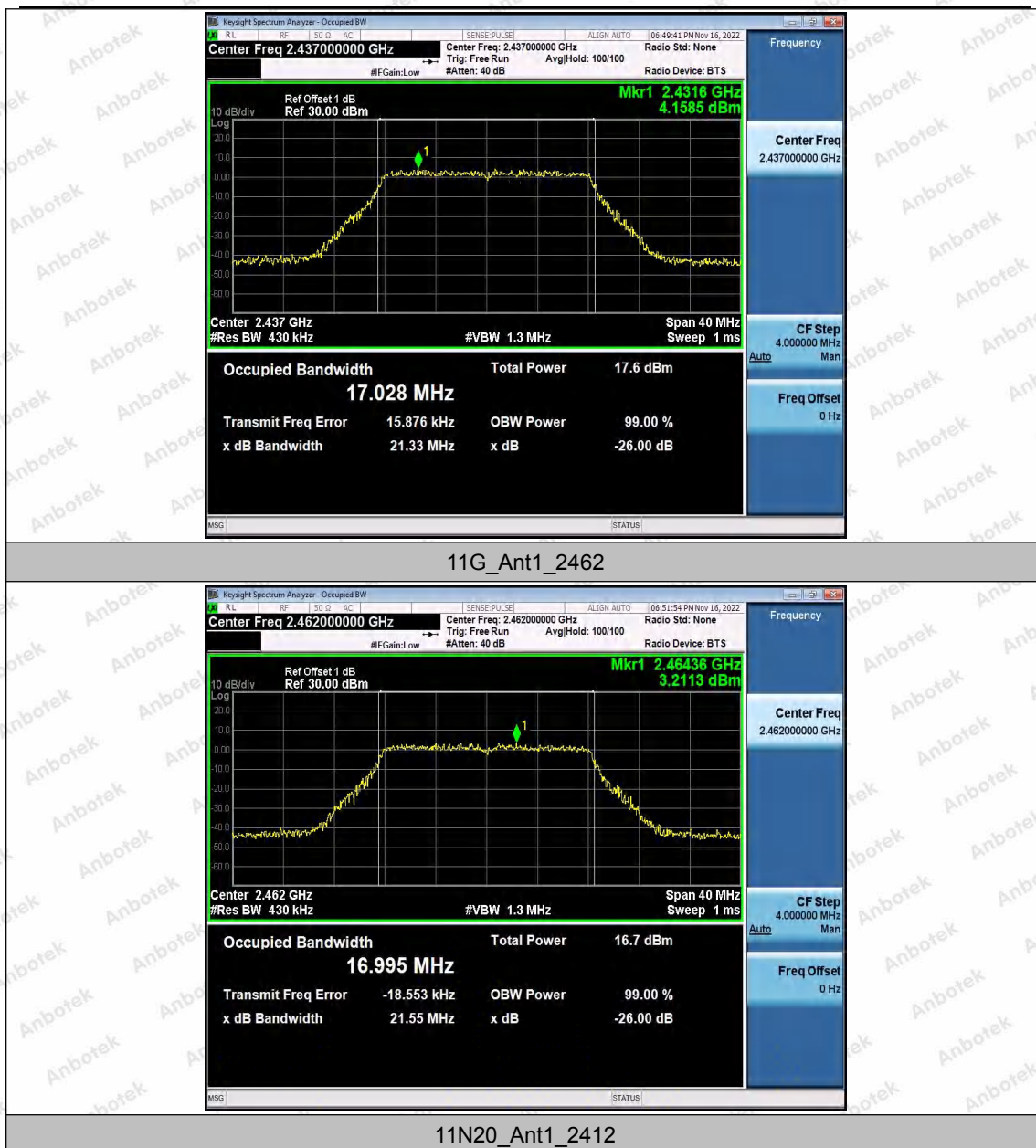
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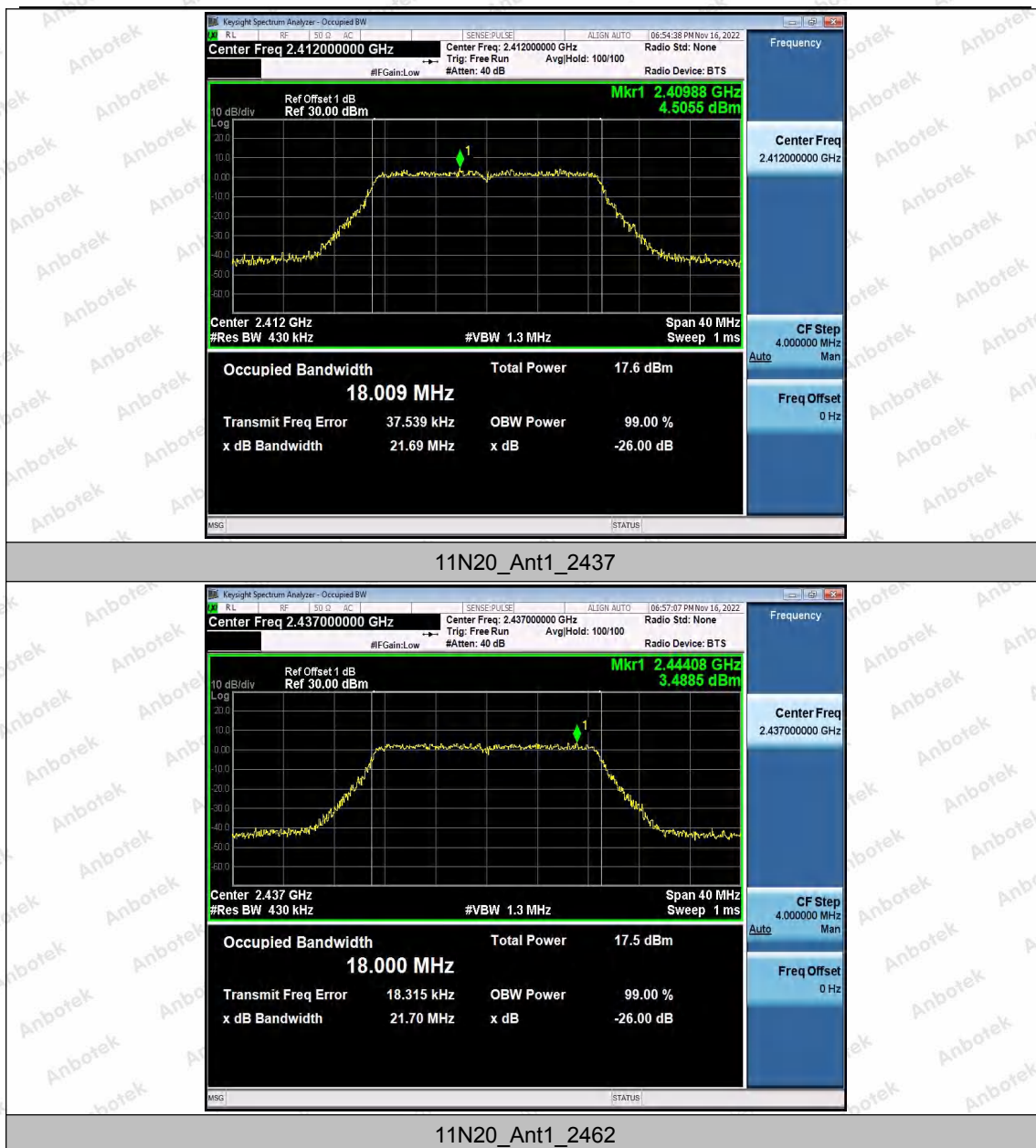
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.90	≤30.00
		2437	18.68	≤30.00
		2462	18.18	≤30.00
11G	Ant1	2412	18.79	≤30.00
		2437	18.57	≤30.00
		2462	17.83	≤30.00
11N20	Ant1	2412	18.80	≤30.00
		2437	18.57	≤30.00
		2462	17.84	≤30.00

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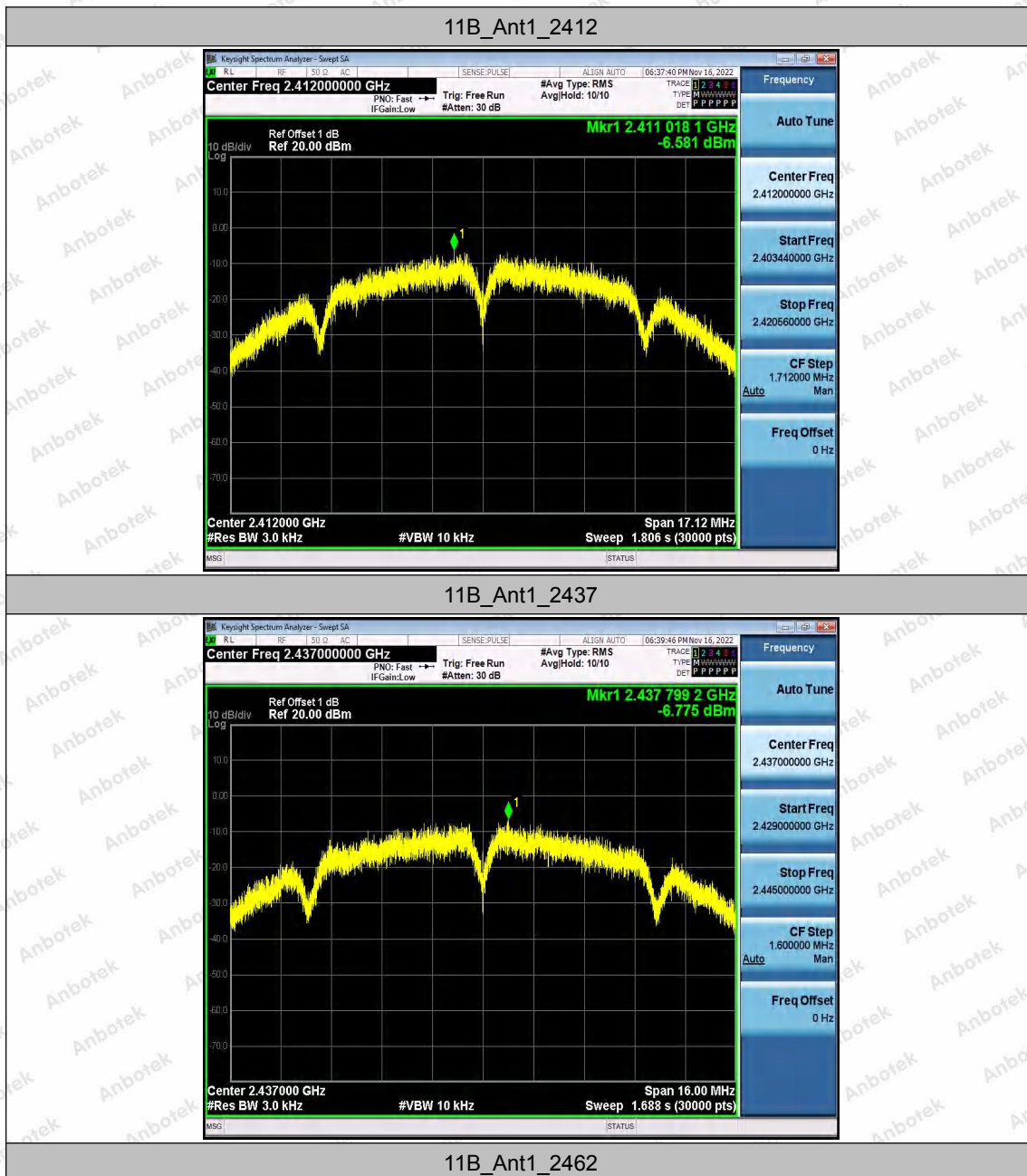
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.58	≤8.00	PASS
		2437	-6.78	≤8.00	PASS
		2462	-7.86	≤8.00	PASS
11G	Ant1	2412	-12.79	≤8.00	PASS
		2437	-13.61	≤8.00	PASS
		2462	-14.42	≤8.00	PASS
11N20	Ant1	2412	-13.16	≤8.00	PASS
		2437	-13.39	≤8.00	PASS
		2462	-14.58	≤8.00	PASS



Test Graphs



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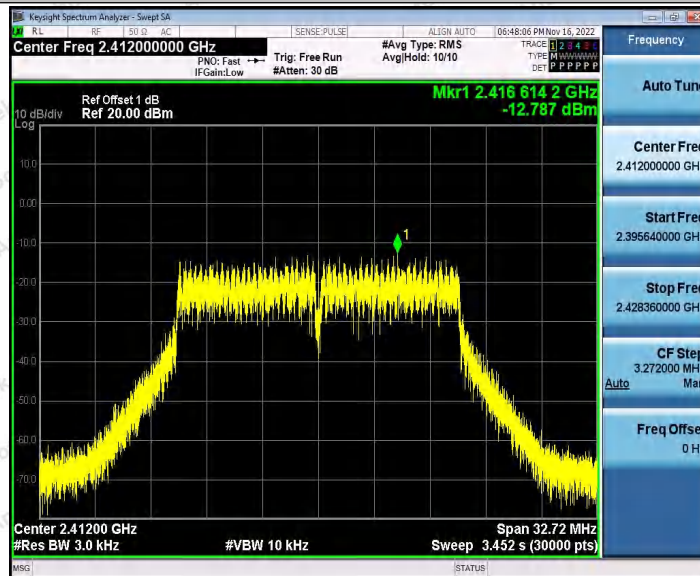


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11G_Ant1_2412



11G_Ant1_2437

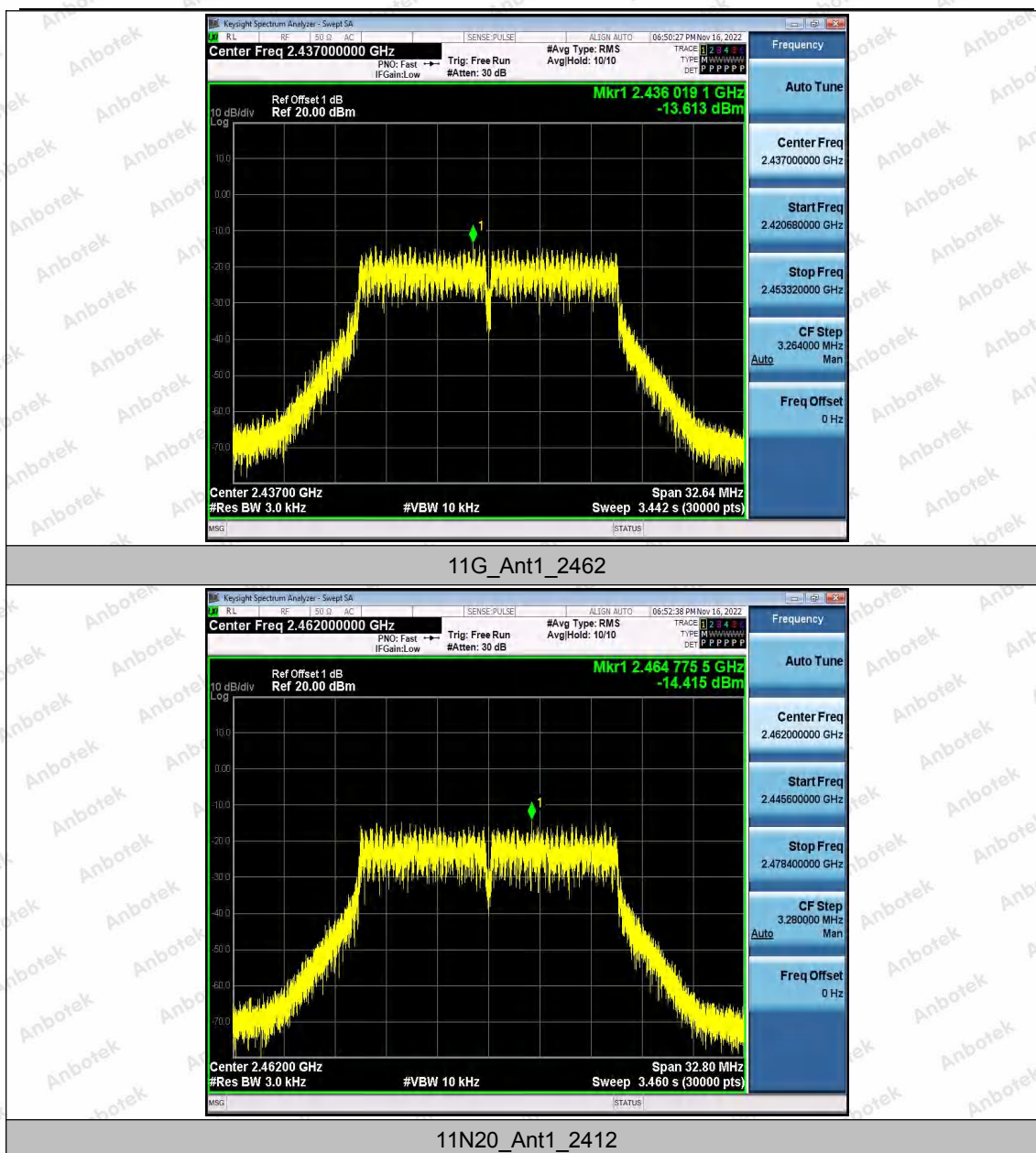
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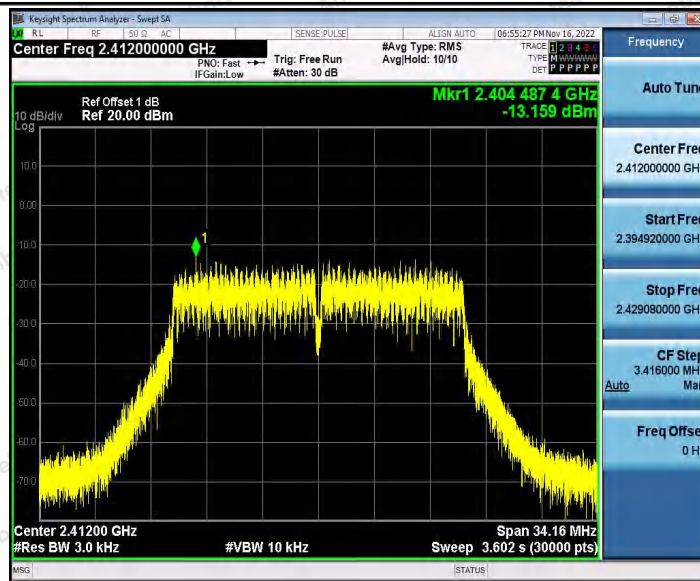
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11N20_Ant1_2437



11N20_Ant1_2462

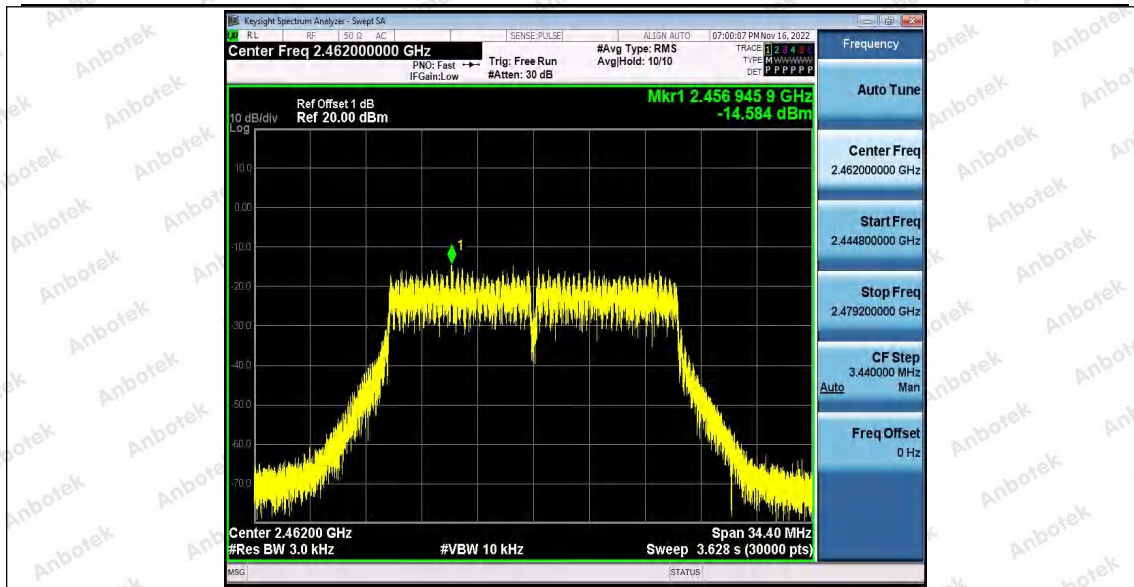
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.47	-42.1	≤-12.54	PASS
		High	2462	6.17	-52.24	≤-13.83	PASS
11G	Ant1	Low	2412	0.88	-40.72	≤-19.12	PASS
		High	2462	-0.41	-51.99	≤-20.41	PASS
11N20	Ant1	Low	2412	0.66	-37.87	≤-19.34	PASS
		High	2462	-0.57	-52.08	≤-20.57	PASS

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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

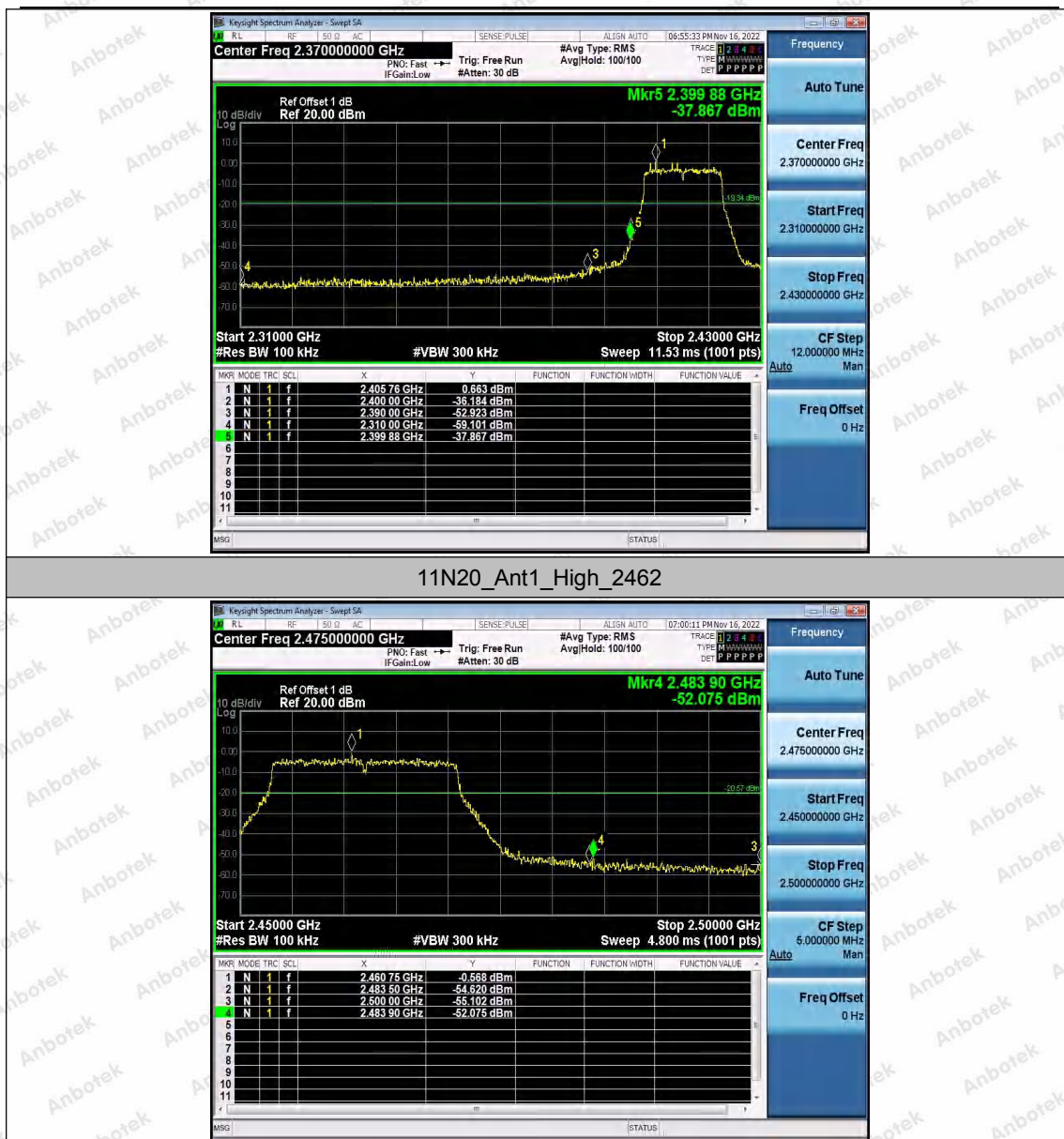
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-69.19	≤-14.8	PASS
			1000~26500	5.20	-39.37	≤-14.8	PASS
		2437	Reference	6.31	6.31	---	PASS
			30~1000	6.31	-68.48	≤-13.69	PASS
			1000~26500	6.31	-38.96	≤-13.69	PASS
		2462	Reference	5.52	5.52	---	PASS
			30~1000	5.52	-69.06	≤-14.48	PASS
			1000~26500	5.52	-39.14	≤-14.48	PASS
11G	Ant1	2412	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-68.9	≤-22.68	PASS
			1000~26500	-2.68	-51.89	≤-22.68	PASS
		2437	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-68.3	≤-23.04	PASS
			1000~26500	-3.04	-53.85	≤-23.04	PASS
		2462	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-68.74	≤-21.33	PASS
			1000~26500	-1.33	-52.85	≤-21.33	PASS
11N20	Ant1	2412	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-68.91	≤-20.78	PASS
			1000~26500	-0.78	-53.06	≤-20.78	PASS
		2437	Reference	0.33	0.33	---	PASS
			30~1000	0.33	-67.74	≤-19.67	PASS
			1000~26500	0.33	-53.06	≤-19.67	PASS
		2462	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-68.87	≤-20.71	PASS
			1000~26500	-0.71	-52.74	≤-20.71	PASS

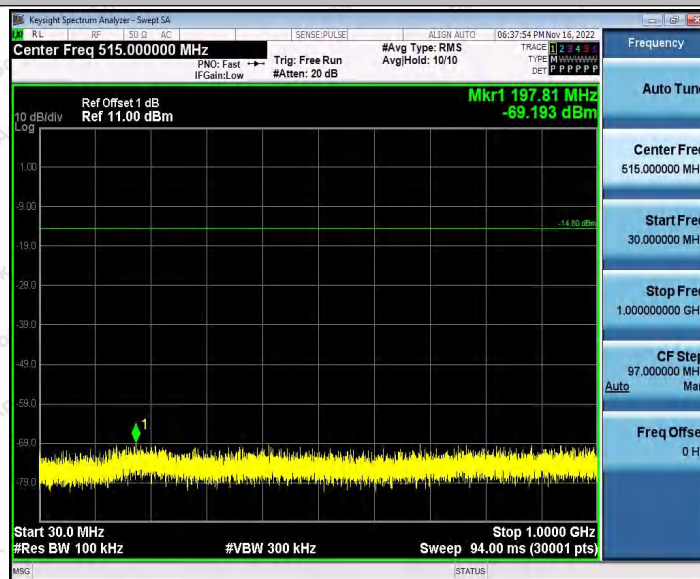


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

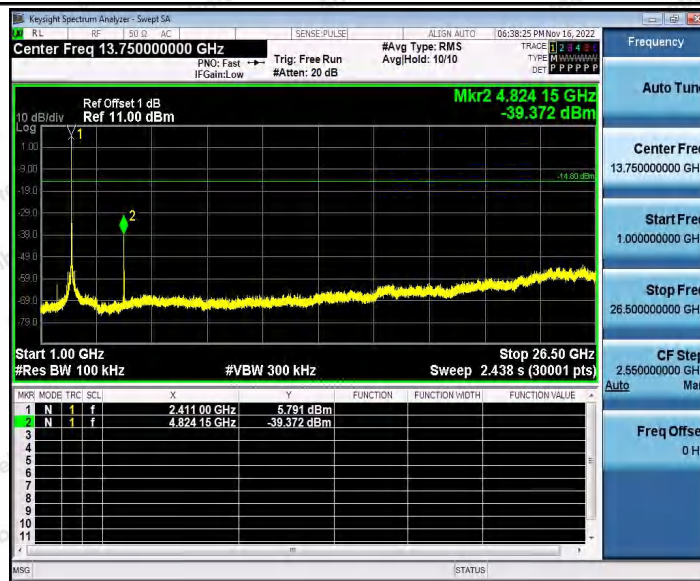
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

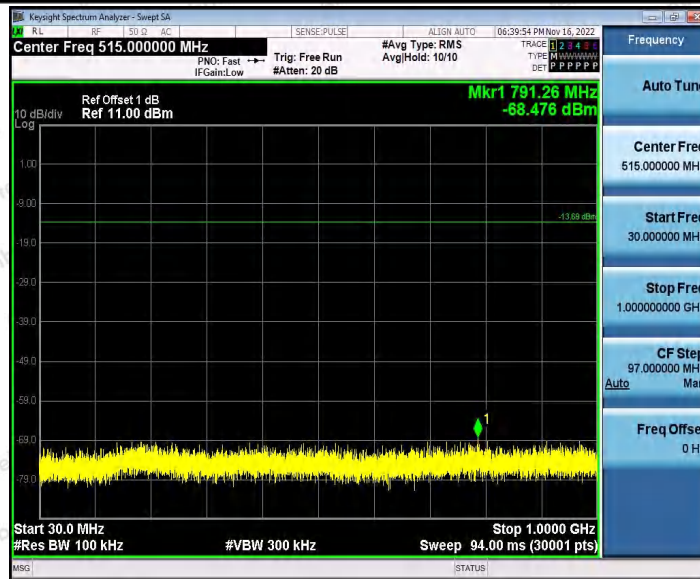
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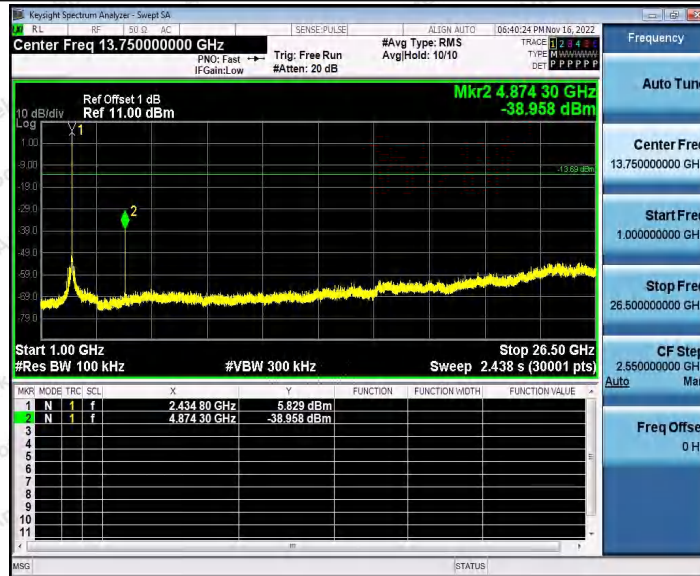


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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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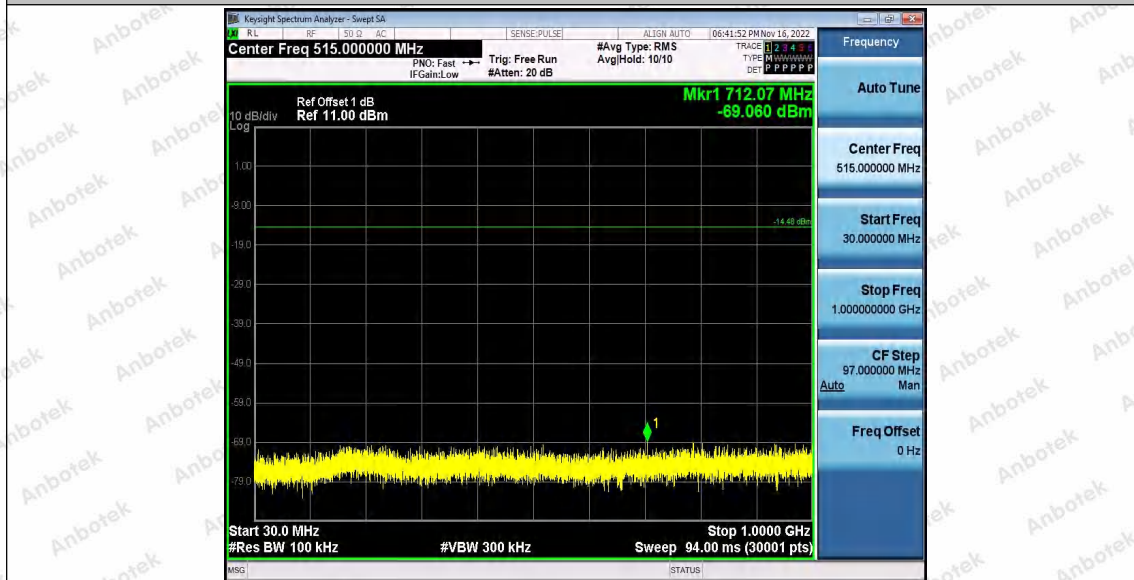


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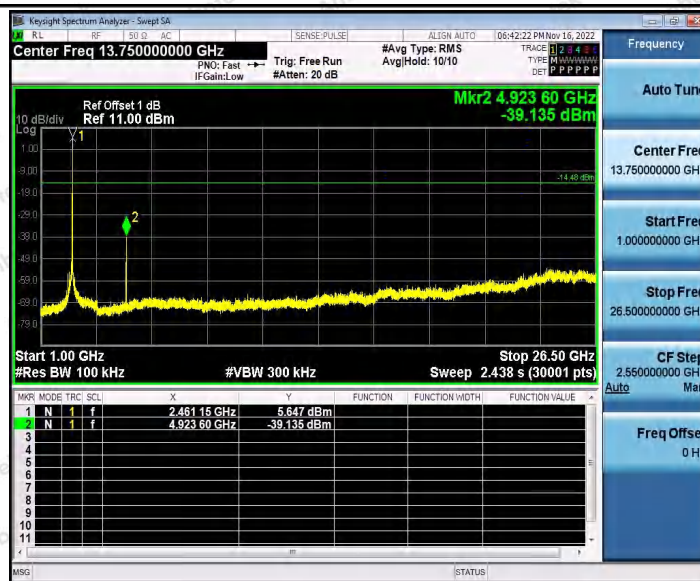


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11B_Ant1_2462_1000~26500





11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

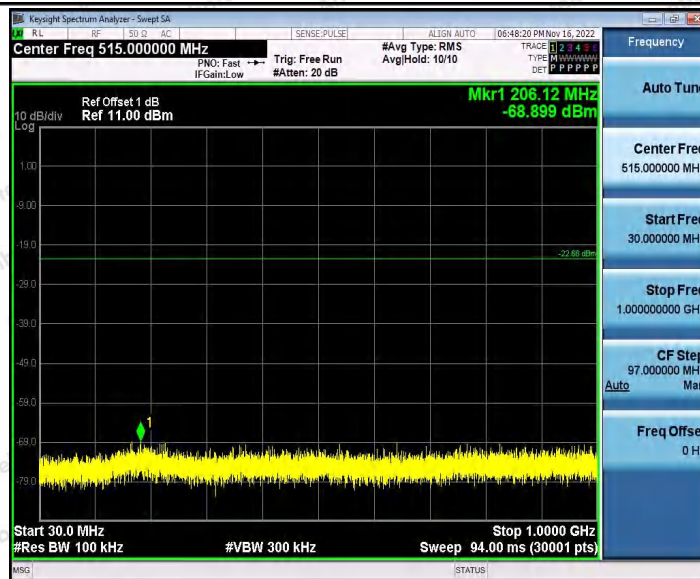
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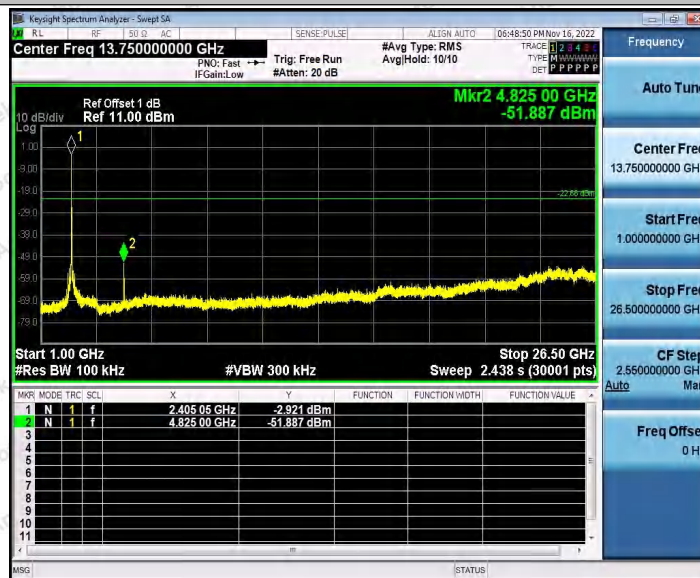


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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

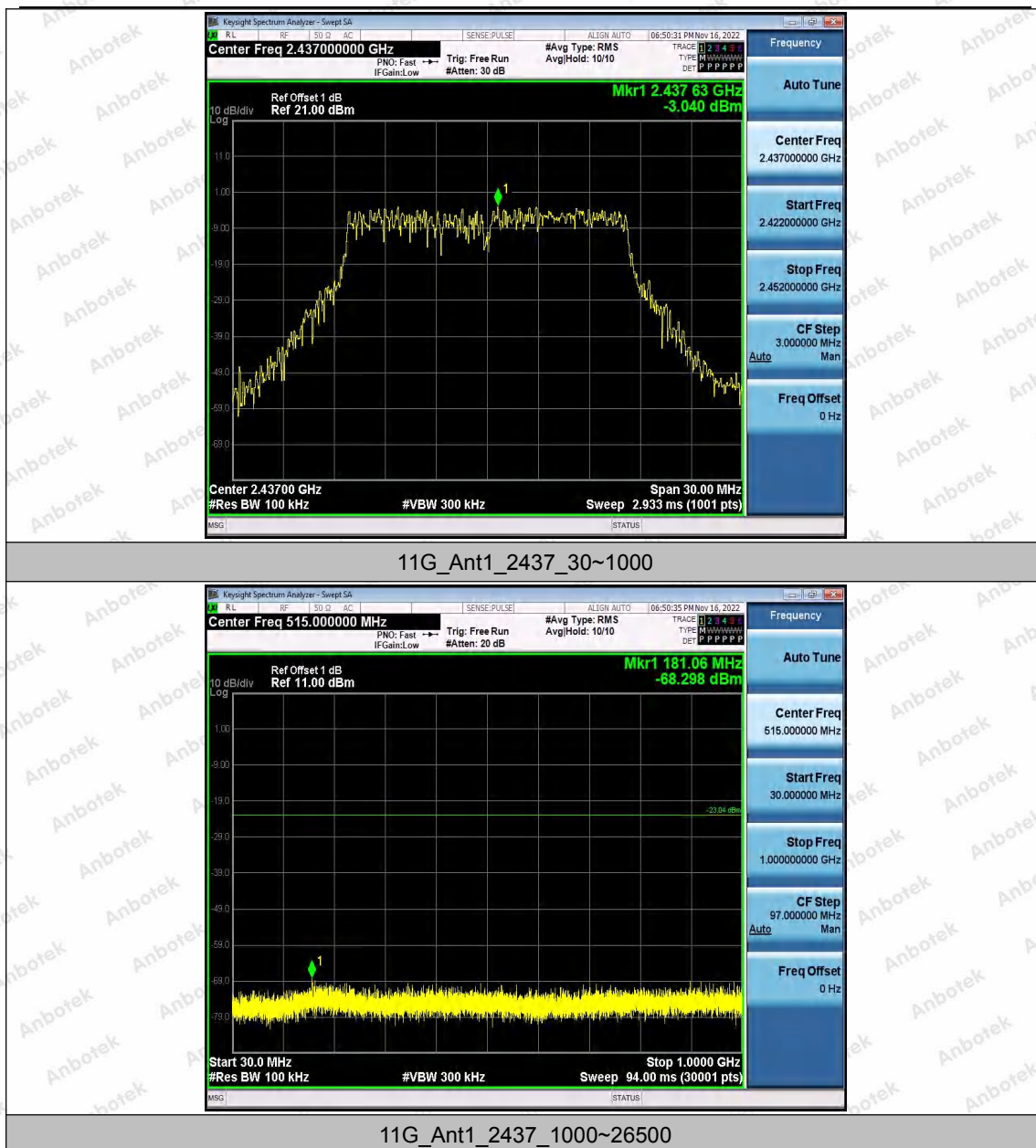
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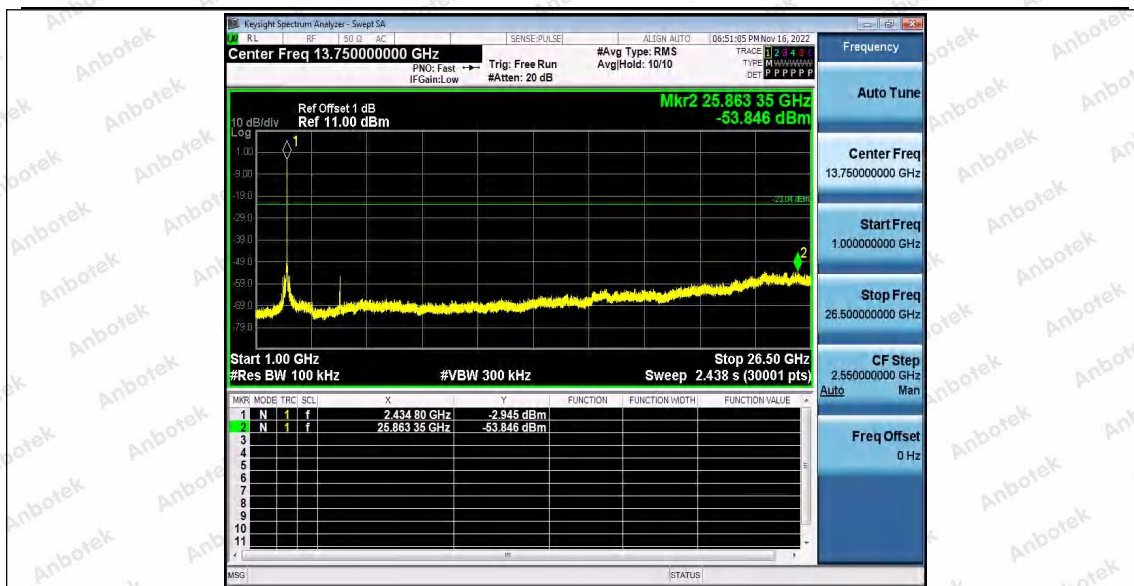
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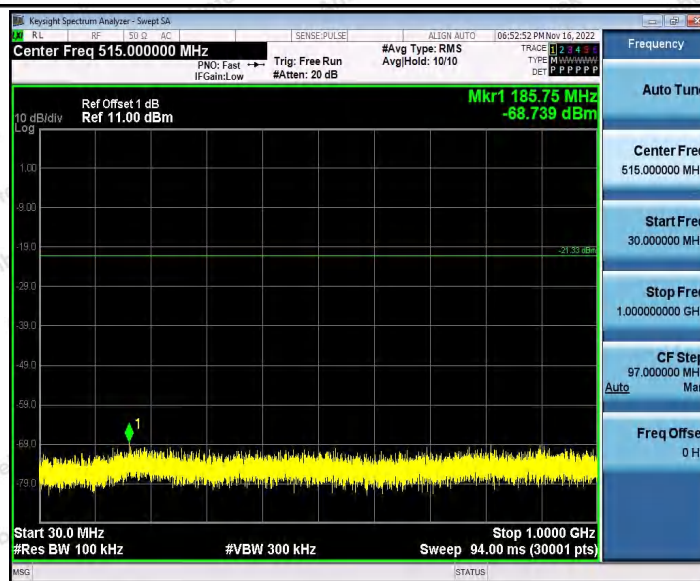


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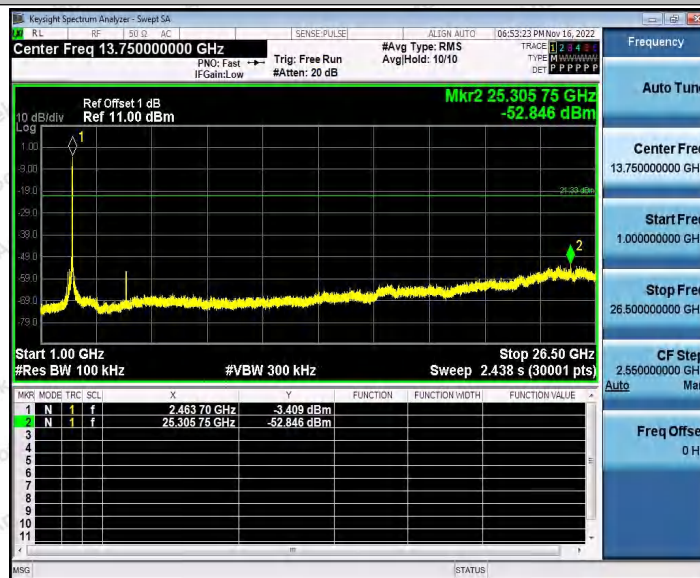


11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference

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11N20_Ant1_2412_30~1000



11N20_Ant1_2412_1000~26500

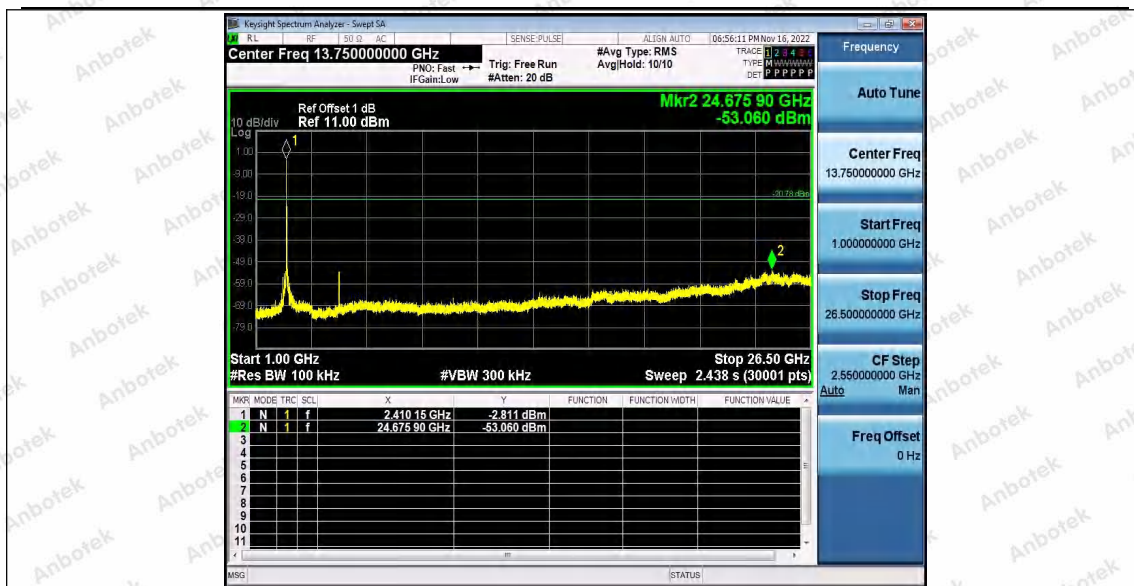
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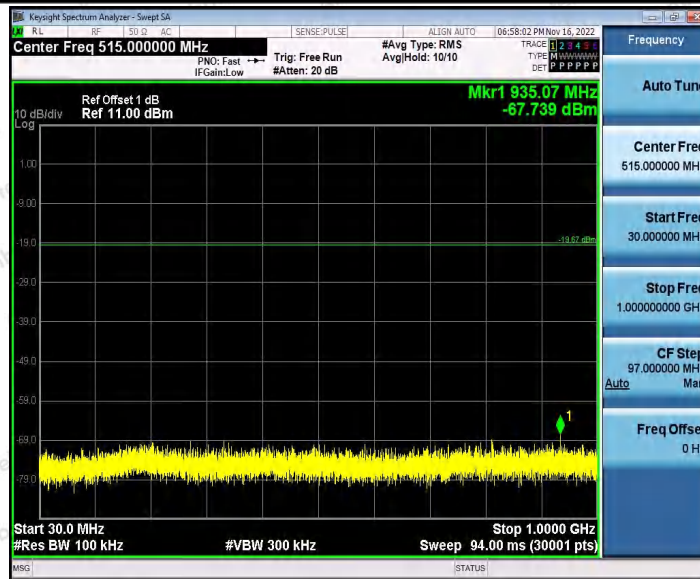


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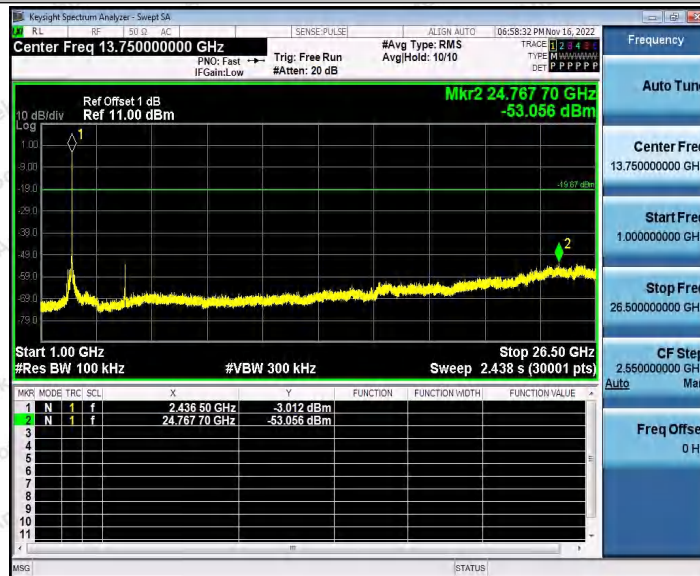


11N20_Ant1_2437_30~1000





11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

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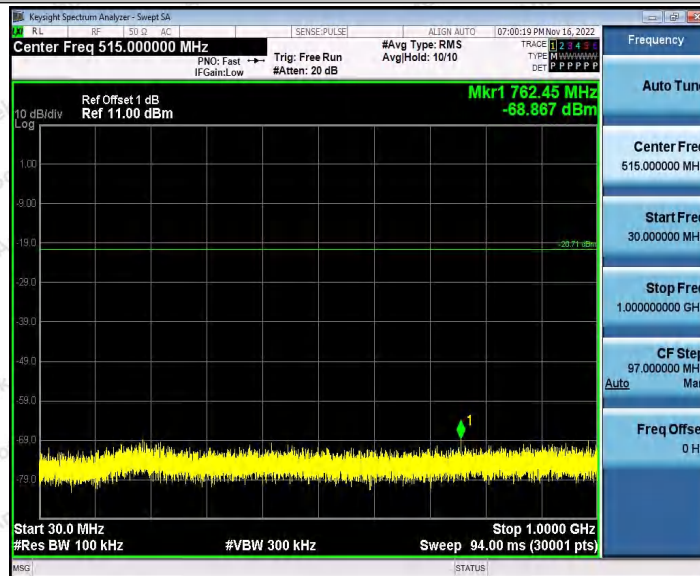


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11N20_Ant1_2462_30~1000



11N20_Ant1_2462_1000~26500

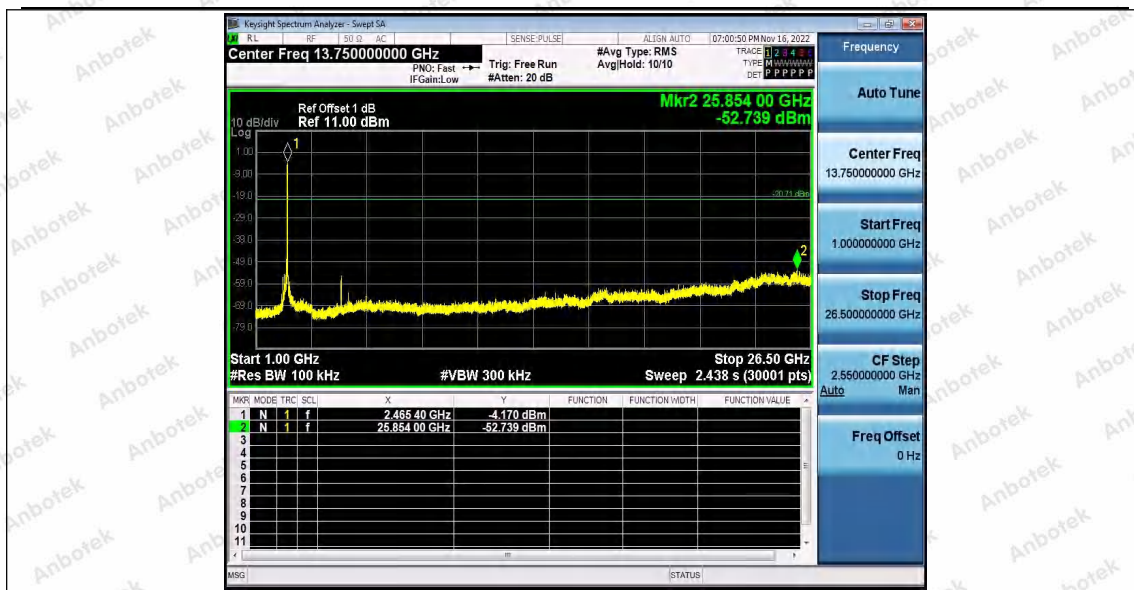
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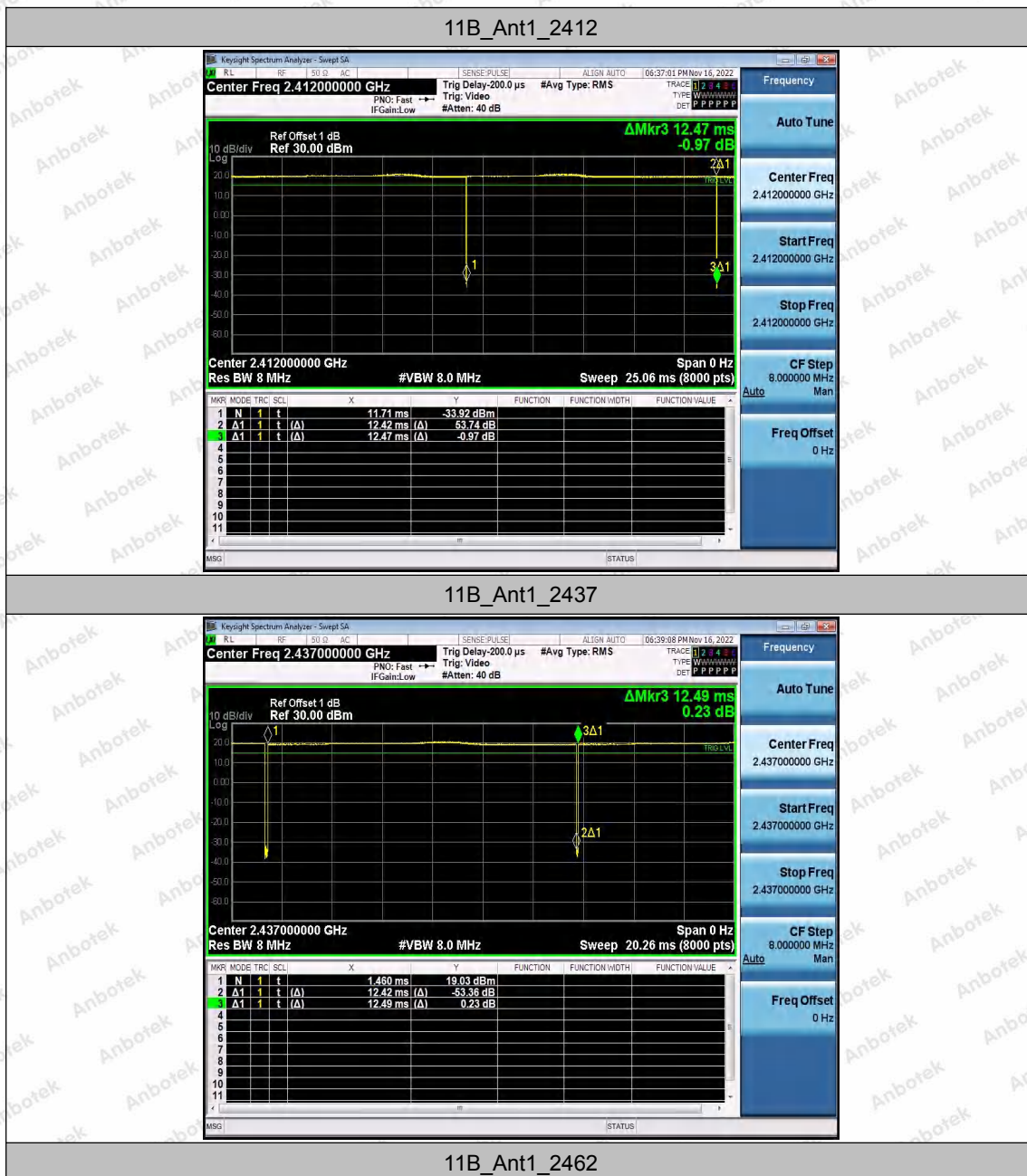
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.47	99.60	0.02
		2437	12.42	12.49	99.44	0.02
		2462	12.41	12.47	99.52	0.02
11G	Ant1	2412	2.06	4.99	41.28	3.84
		2437	2.06	4.99	41.28	3.84
		2462	2.07	5.00	41.40	3.83
11N20	Ant1	2412	1.92	4.99	38.48	4.15
		2437	1.92	4.99	38.48	4.15
		2462	1.92	6.12	31.37	5.03



Test Graphs



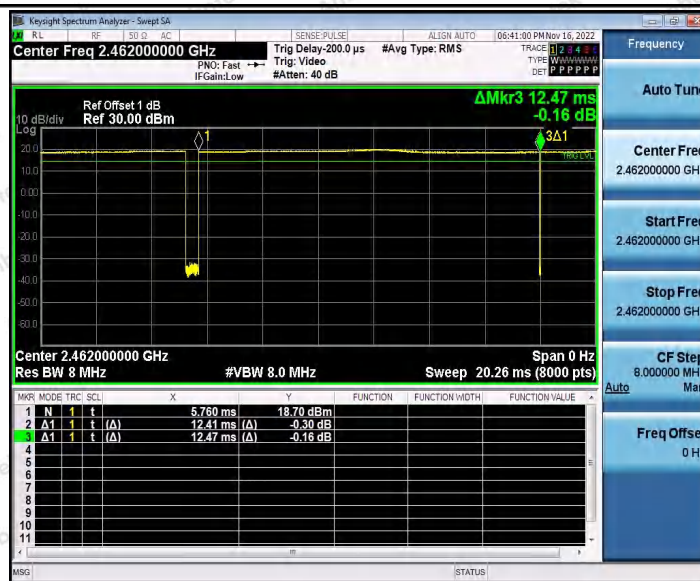
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

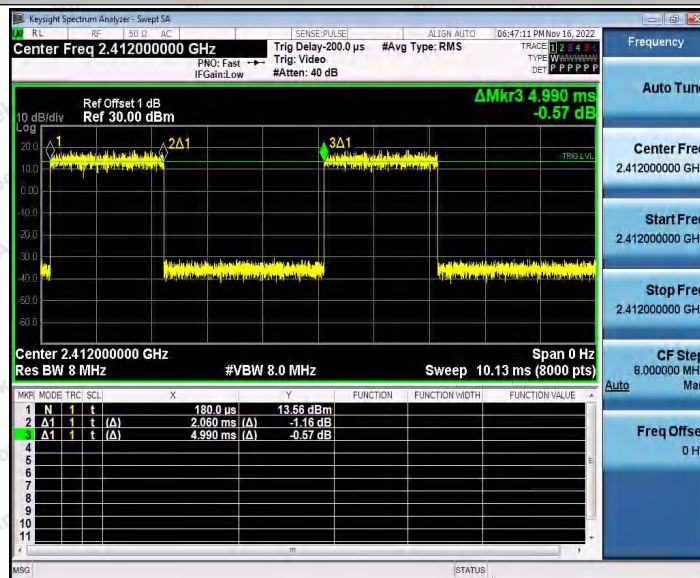


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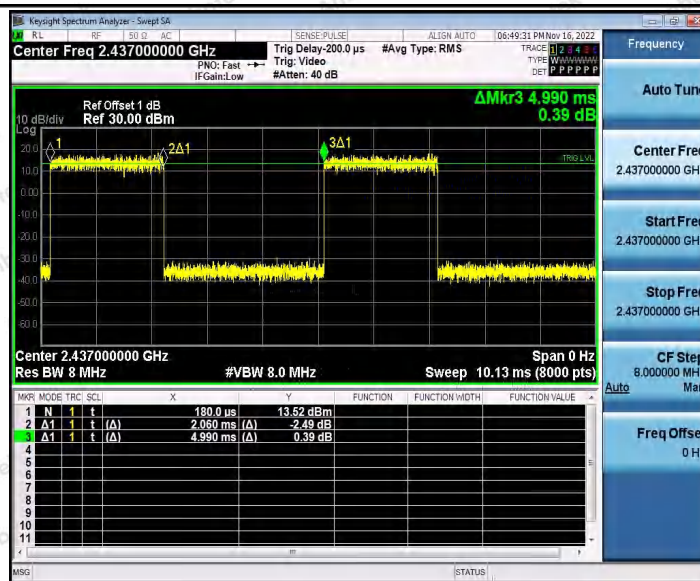


11G_Ant1_2412

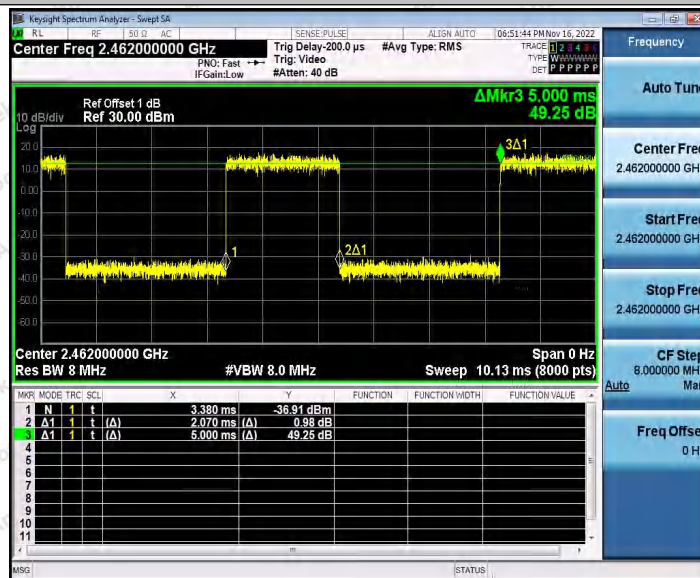


11G_Ant1_2437



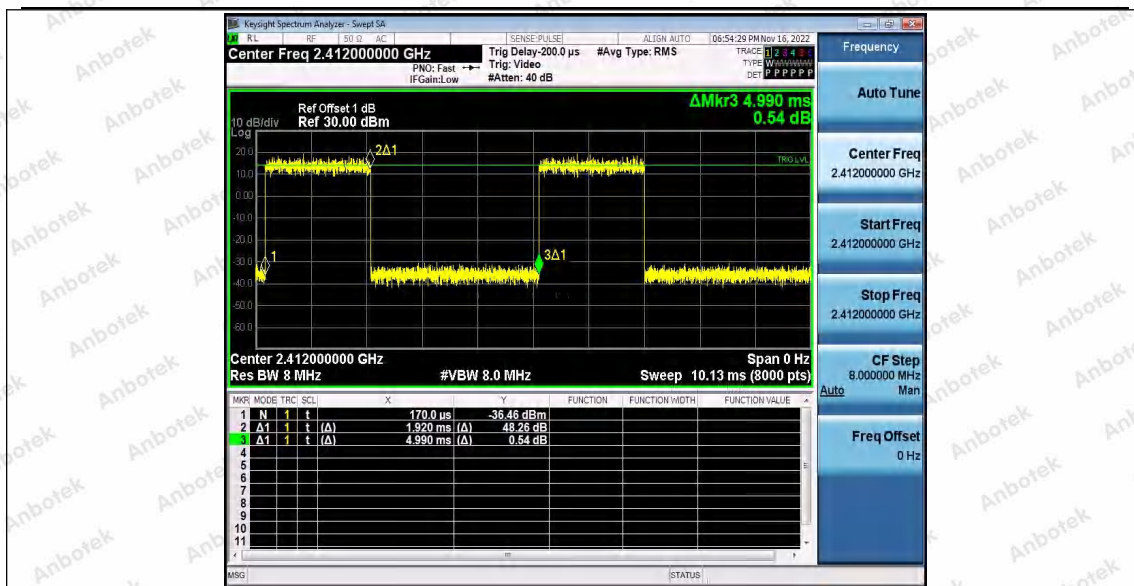


11G_Ant1_2462

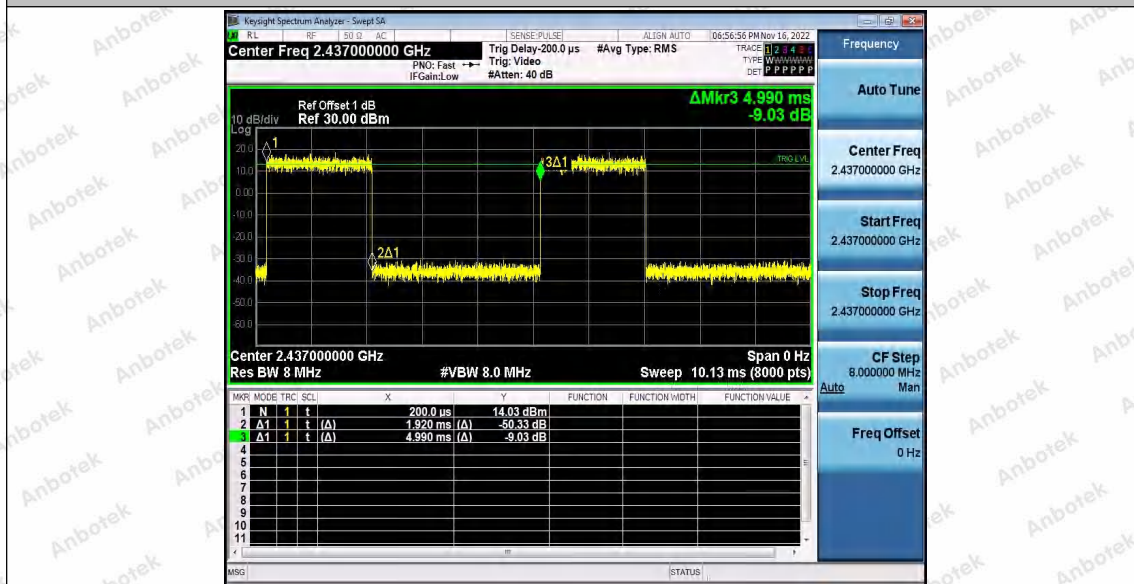


11N20_Ant1_2412



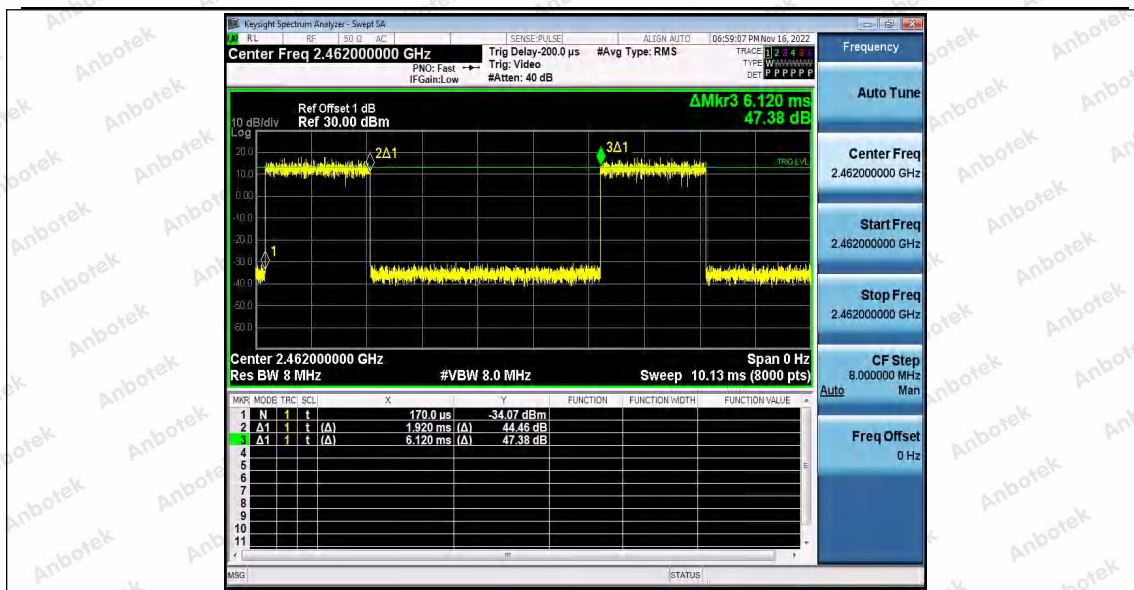


11N20_Ant1_2437



11N20_Ant1_2462





---End---

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