

Appendix Test Data

Report No.:	18220WC20143802	Test Sample No.:	1-2-2
Start Test Date:	2022.7.8	Finish Test Date:	2022.7.20
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	≥0.5	PASS
		2437	9.160	2432.440	2441.600	≥0.5	PASS
		2462	9.120	2457.400	2466.520	≥0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥0.5	PASS
		2437	16.440	2428.800	2445.240	≥0.5	PASS
		2462	16.480	2453.760	2470.240	≥0.5	PASS
11N20	Ant1	2412	17.640	2403.200	2420.840	≥0.5	PASS
		2437	17.720	2428.160	2445.880	≥0.5	PASS
		2462	17.640	2453.200	2470.840	≥0.5	PASS
11N40	Ant1	2422	36.120	2404.060	2440.180	≥0.5	PASS
		2437	35.880	2419.060	2454.940	≥0.5	PASS
		2452	35.820	2434.000	2469.820	≥0.5	PASS

Test Graphs

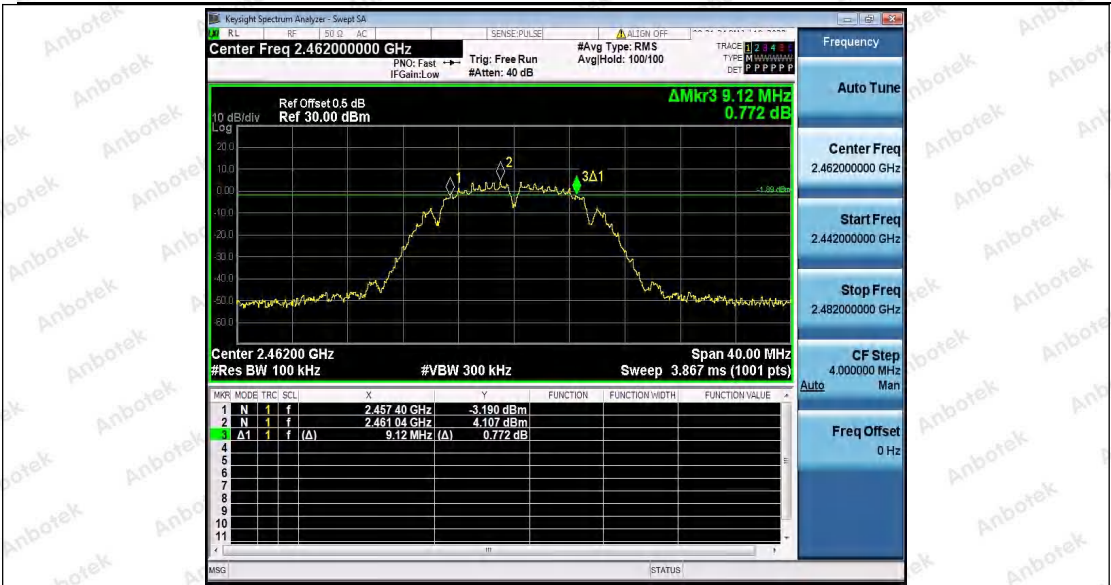
11B_Ant1_2412



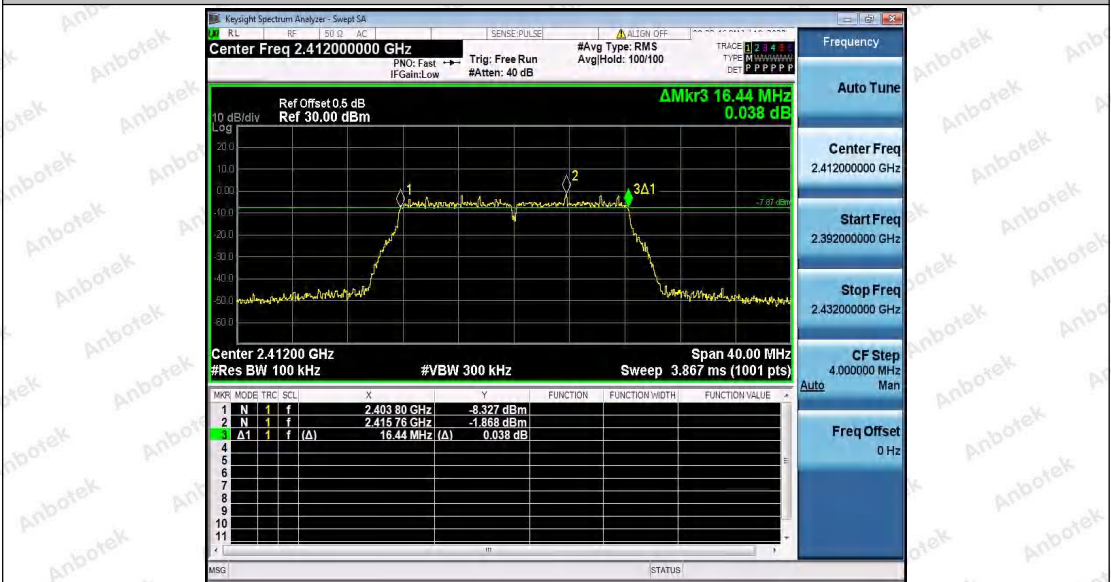
11B_Ant1_2437



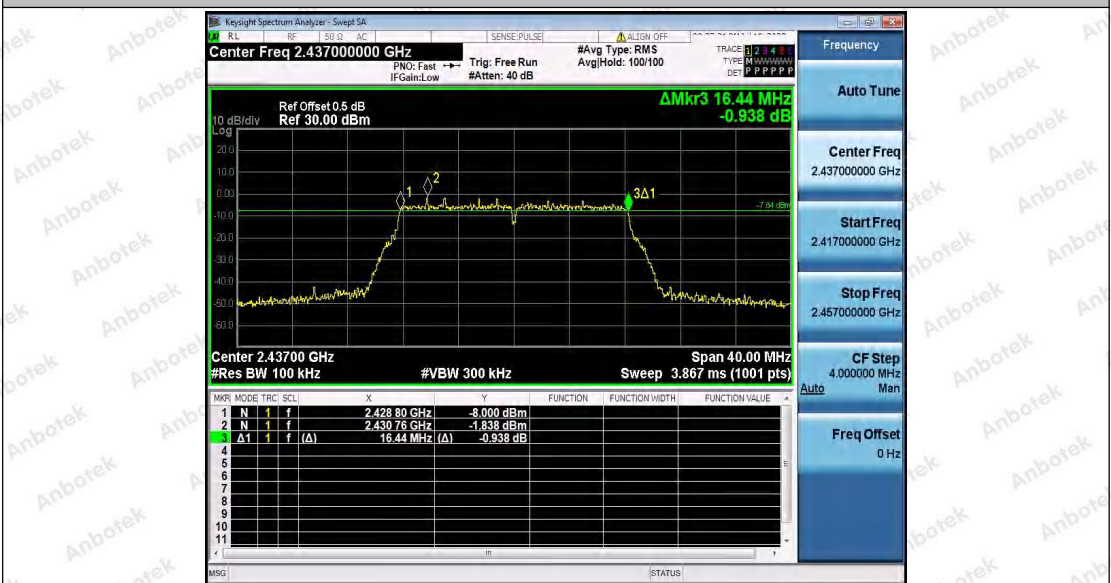
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



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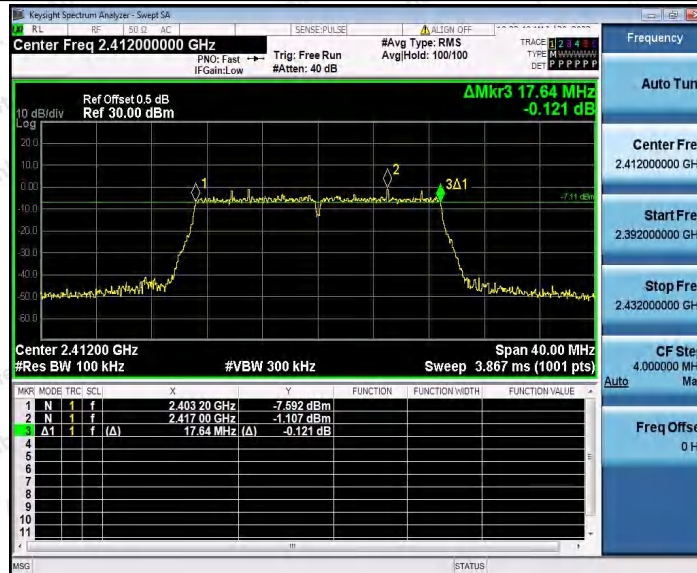
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11G_Ant1_2462



11N20_Ant1_2412

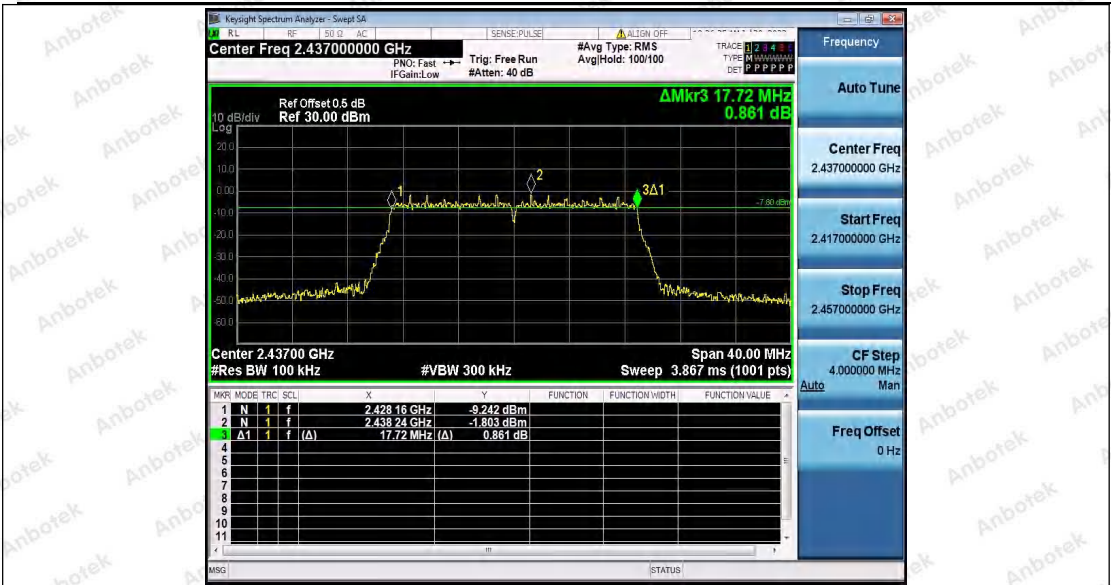


11N20_Ant1_2437

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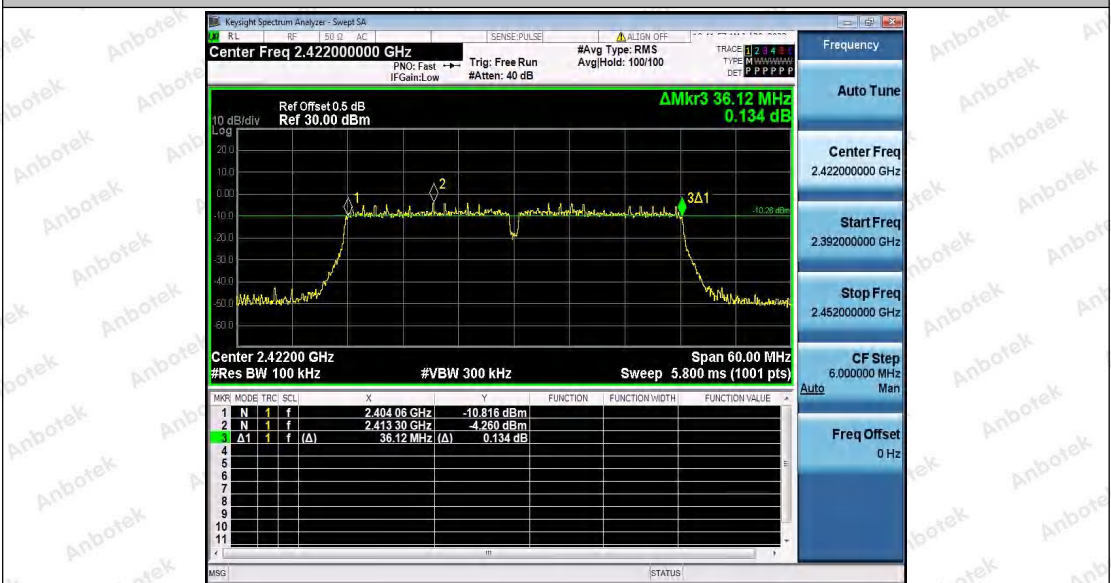
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11N20_Ant1_2462



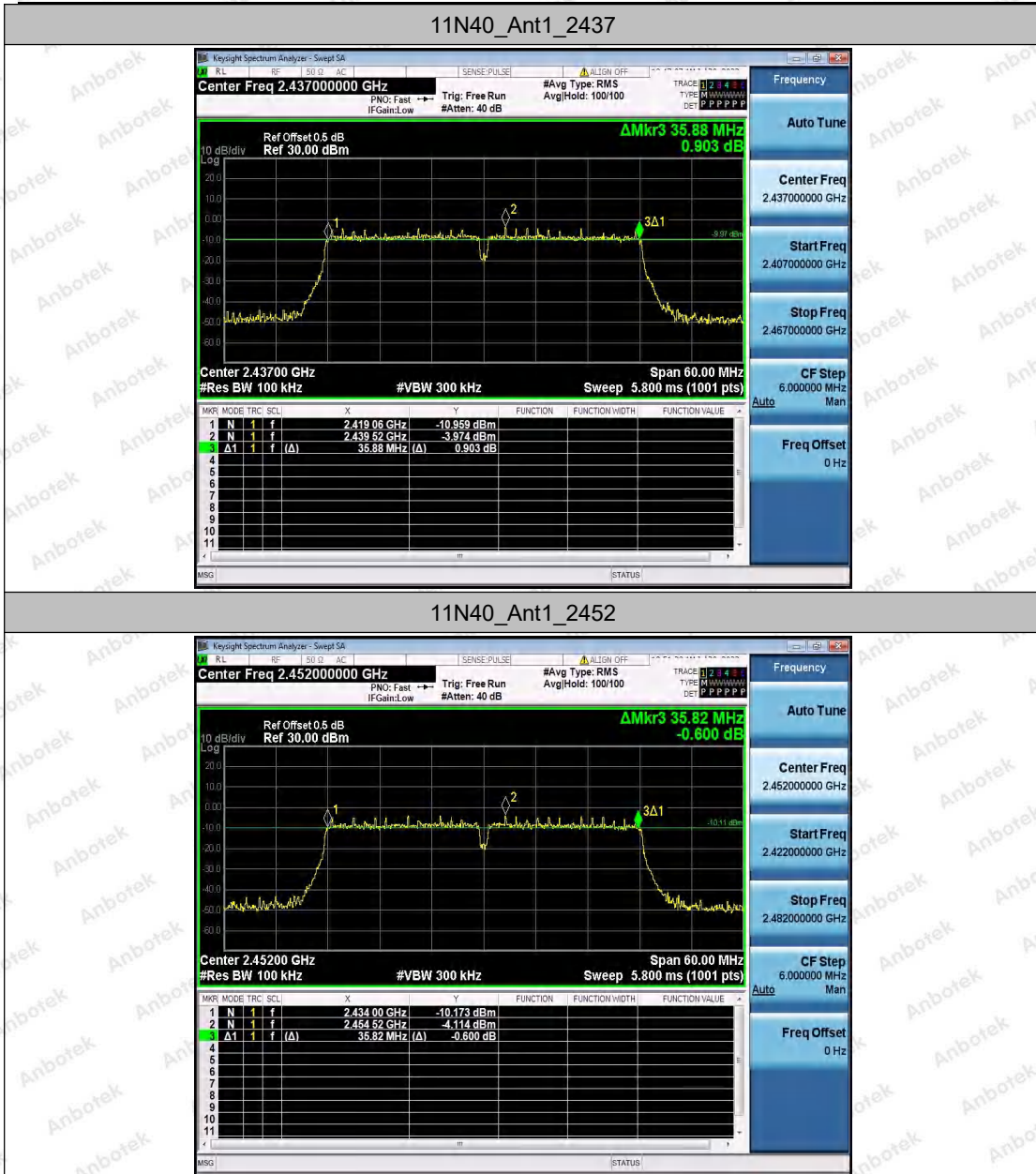
11N40_Ant1_2422



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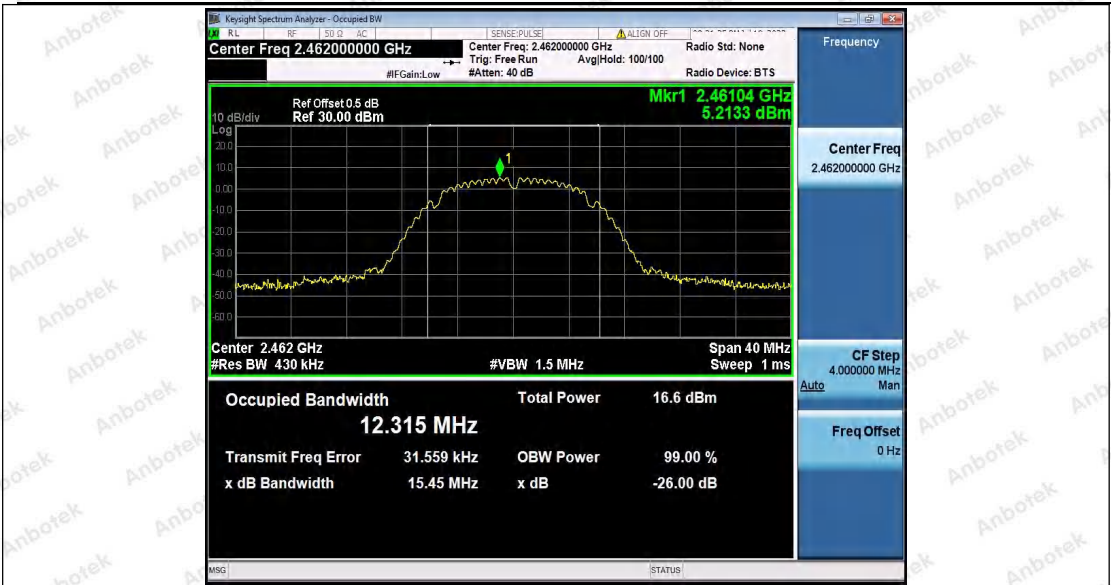
Appendix B: Occupied Channel Bandwidth

Test Result

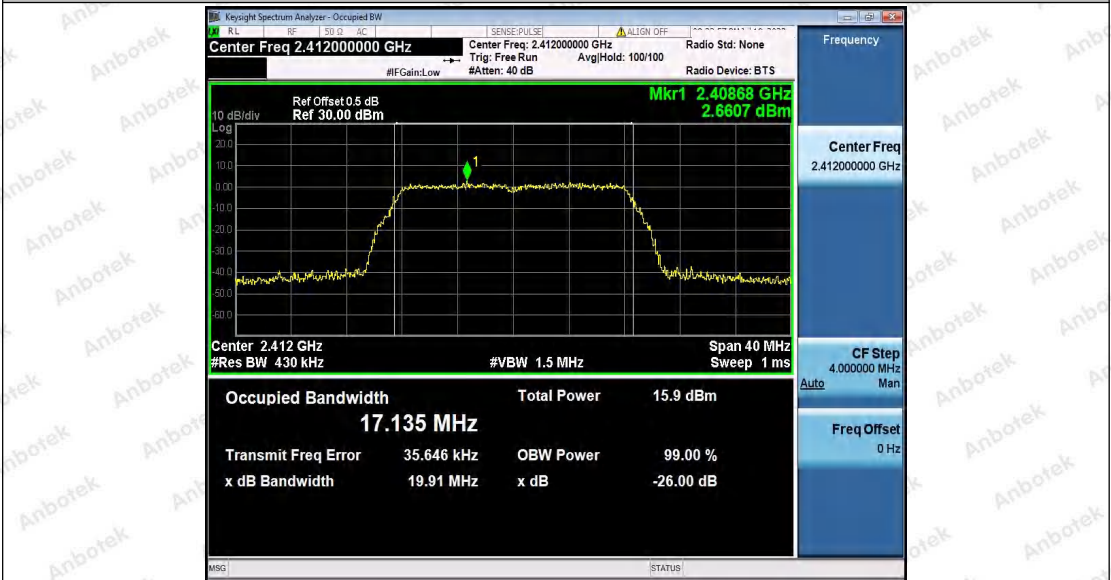
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.291	2405.909	2418.200	---	PASS
		2437	12.302	2430.887	2443.189	---	PASS
		2462	12.315	2455.874	2468.189	---	PASS
11G	Ant1	2412	17.135	2403.468	2420.603	---	PASS
		2437	17.096	2428.497	2445.593	---	PASS
		2462	17.071	2453.484	2470.555	---	PASS
11N20	Ant1	2412	17.982	2403.067	2421.049	---	PASS
		2437	17.925	2428.057	2445.982	---	PASS
		2462	17.973	2453.032	2471.005	---	PASS
11N40	Ant1	2422	36.195	2403.945	2440.140	---	PASS
		2437	36.193	2418.945	2455.138	---	PASS
		2452	36.166	2433.981	2470.147	---	PASS

Test Graphs

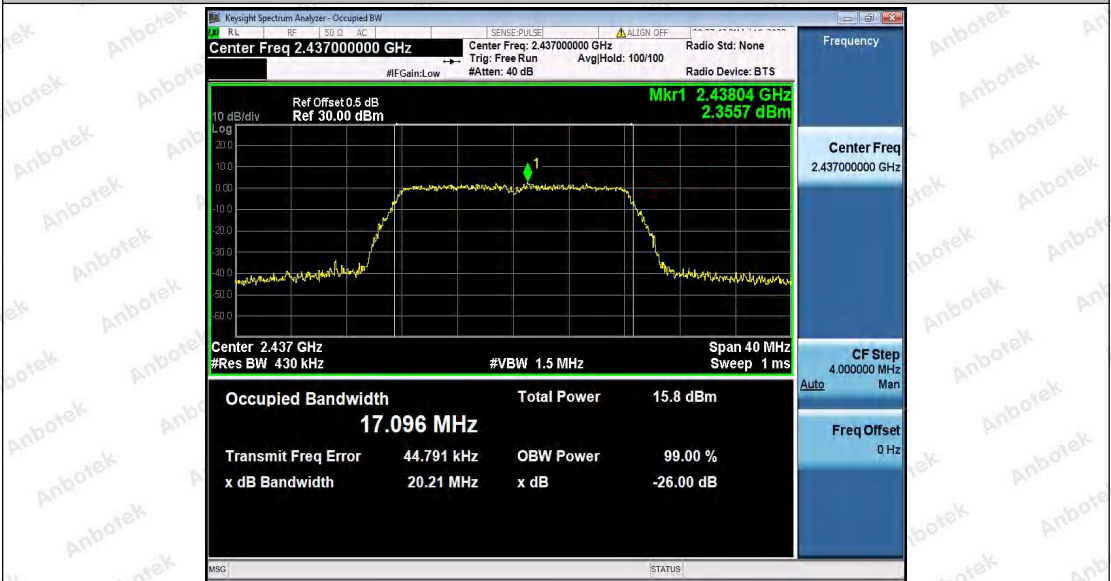




11G_Ant1_2412



11G_Ant1_2437

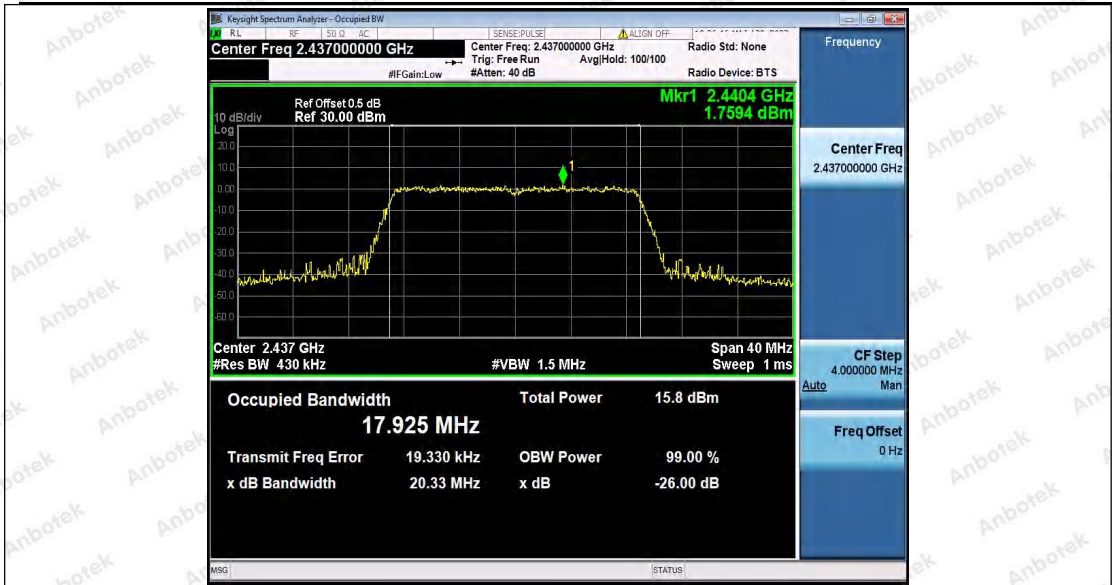


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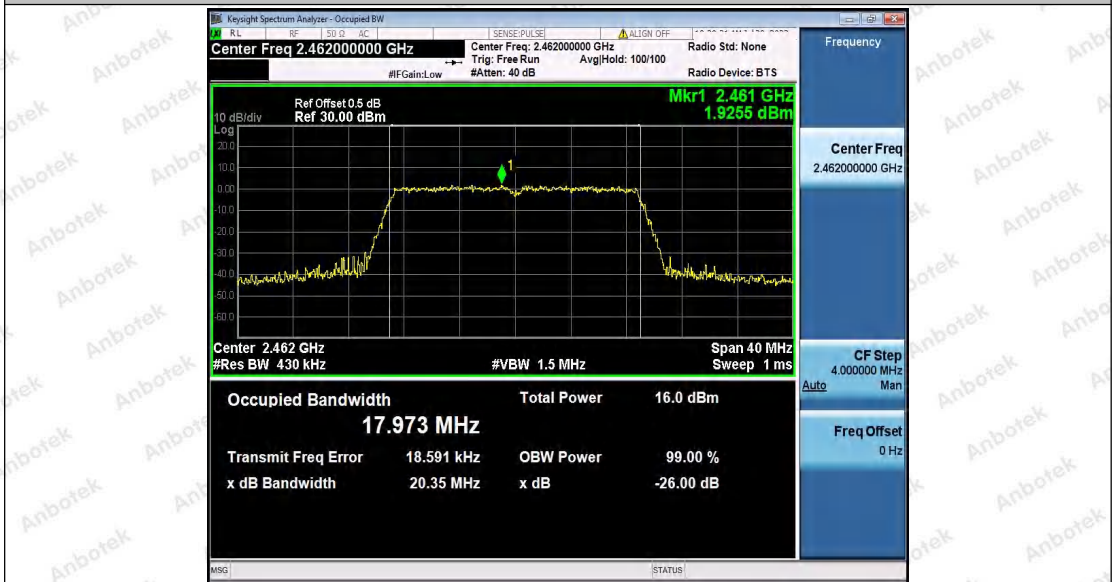
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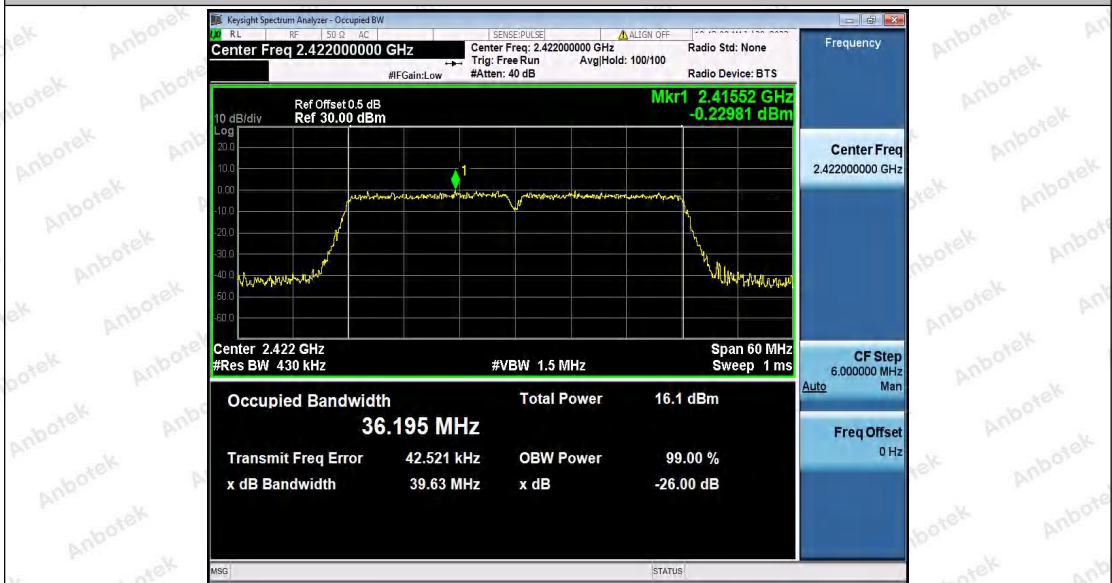




11N20_Ant1_2462



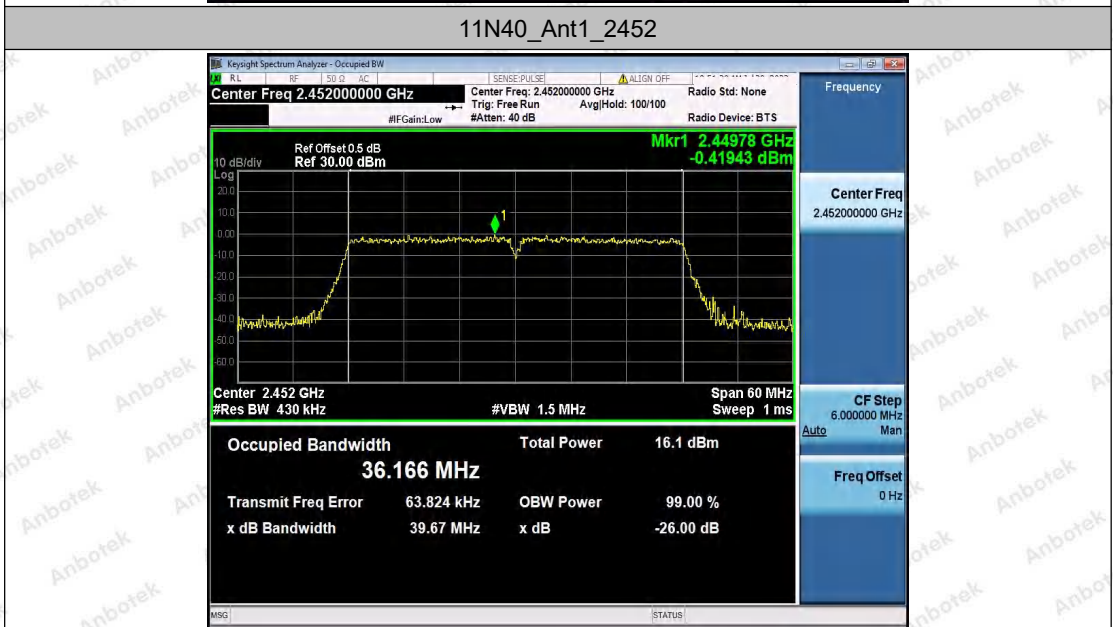
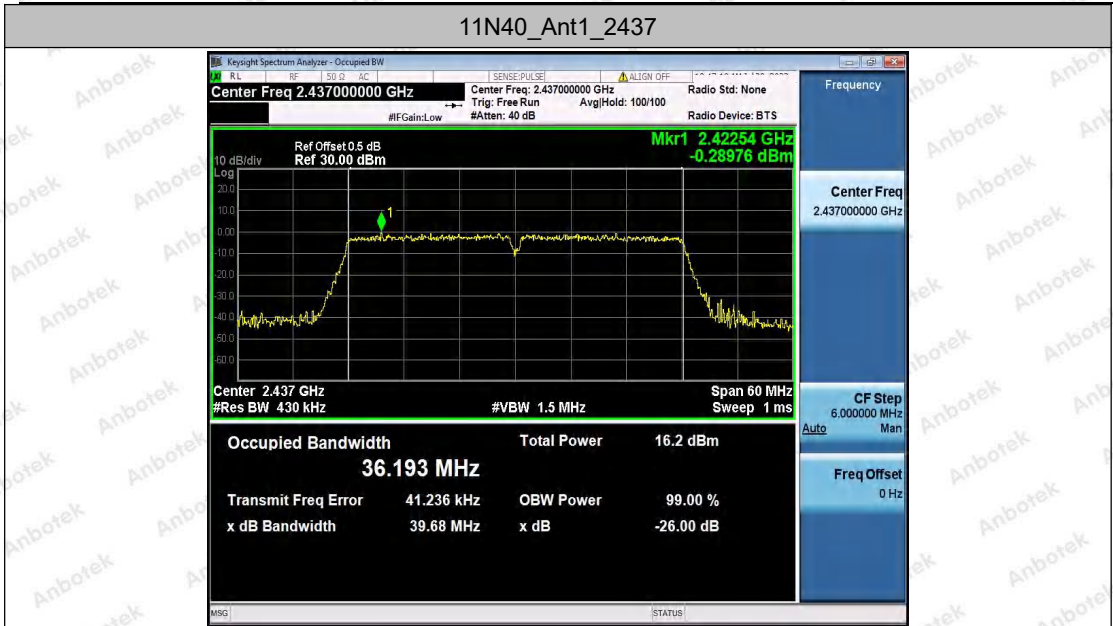
11N40_Ant1_2422



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Appendix C: Maximum conducted output power

Test Result

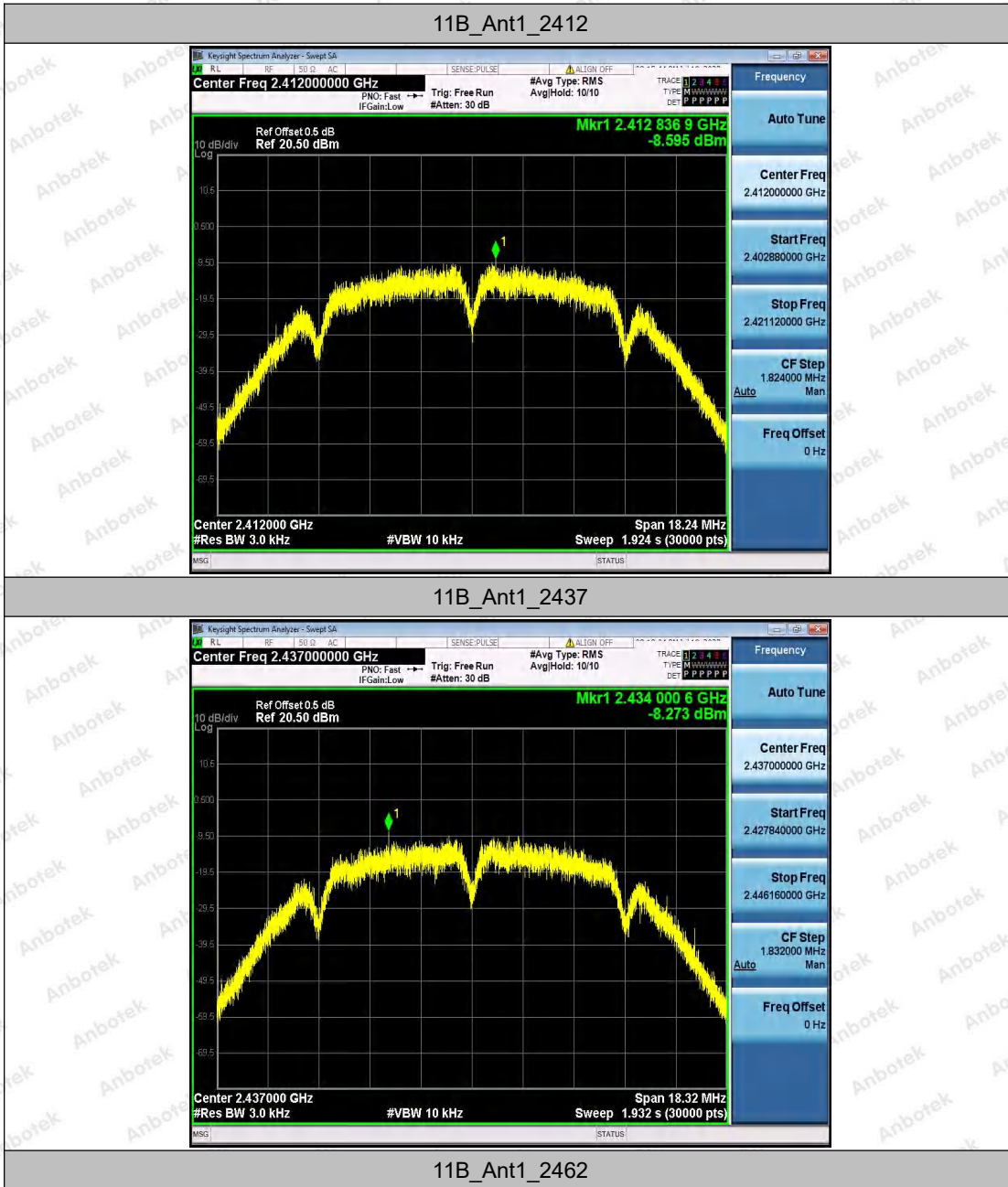
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.76	≤30	PASS
		2437	16.56	≤30	PASS
		2462	16.64	≤30	PASS
11G	Ant1	2412	17.04	≤30	PASS
		2437	16.90	≤30	PASS
		2462	17.21	≤30	PASS
11N20	Ant1	2412	17.38	≤30	PASS
		2437	16.87	≤30	PASS
		2462	17.07	≤30	PASS
11N40	Ant1	2422	14.75	≤30	PASS
		2437	14.85	≤30	PASS
		2452	14.66	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.6	≤8	PASS
		2437	-8.27	≤8	PASS
		2462	-8.74	≤8	PASS
11G	Ant1	2412	-15.03	≤8	PASS
		2437	-15.43	≤8	PASS
		2462	-14.73	≤8	PASS
11N20	Ant1	2412	-15.1	≤8	PASS
		2437	-15.18	≤8	PASS
		2462	-14.85	≤8	PASS
11N40	Ant1	2422	-17.75	≤8	PASS
		2437	-17.44	≤8	PASS
		2452	-17.61	≤8	PASS

Test Graphs



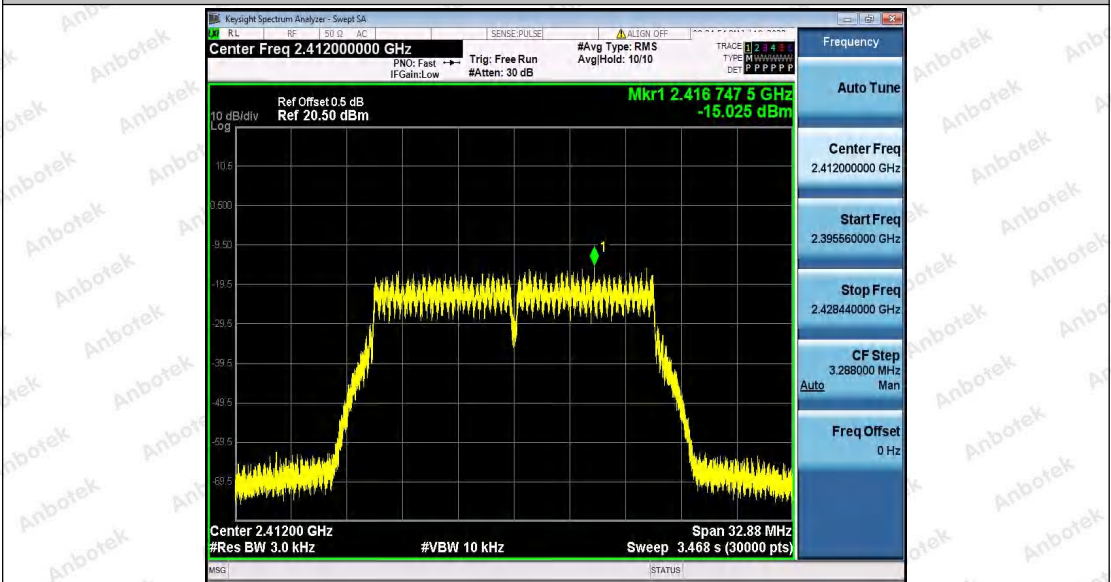
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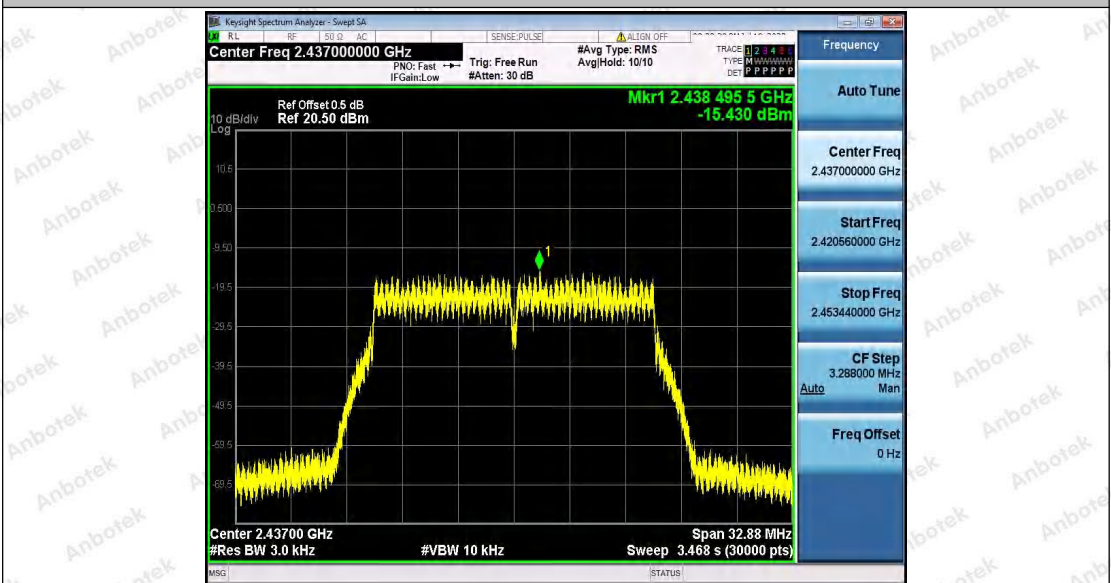
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11G_Ant1_2412



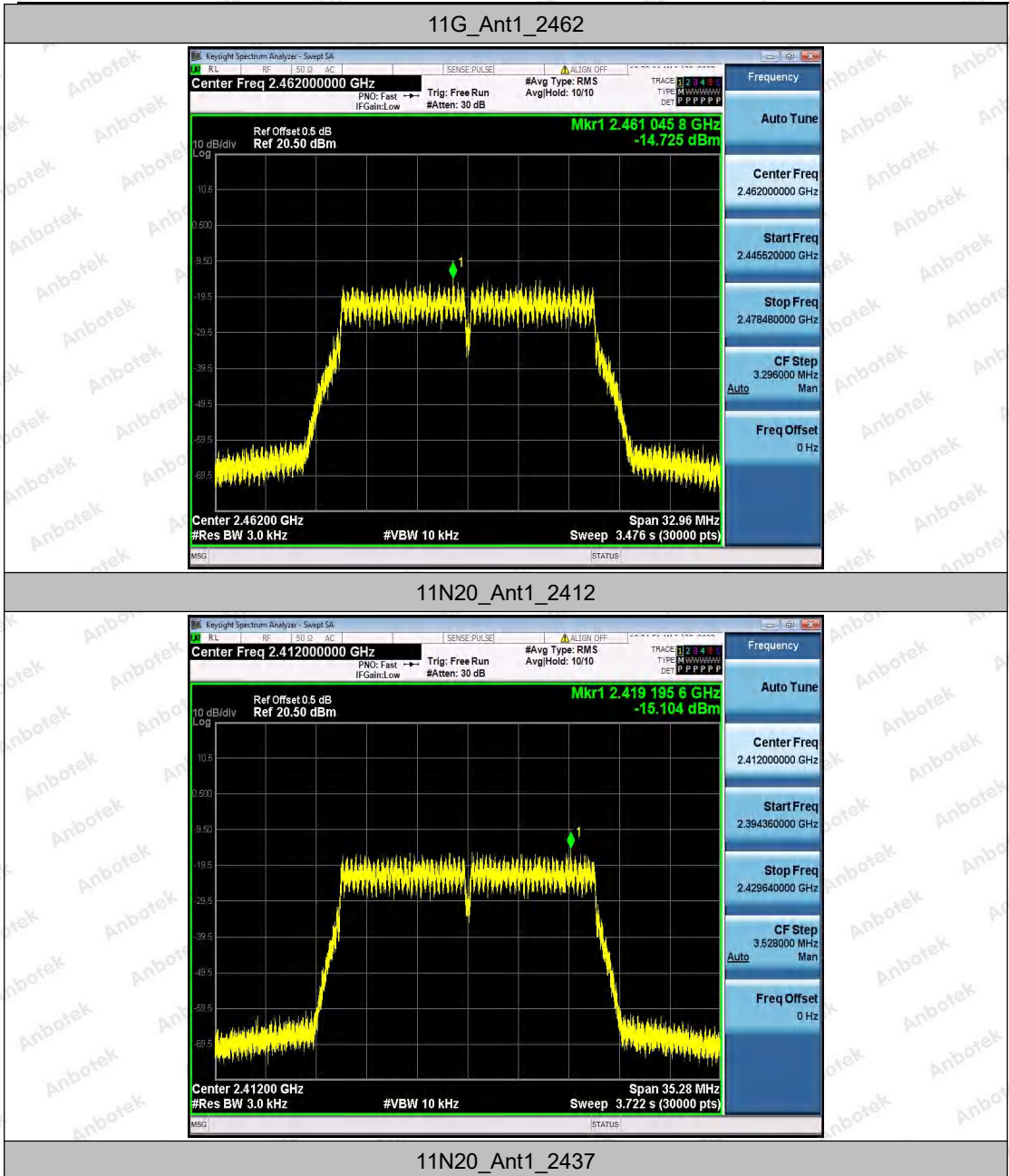
11G_Ant1_2437



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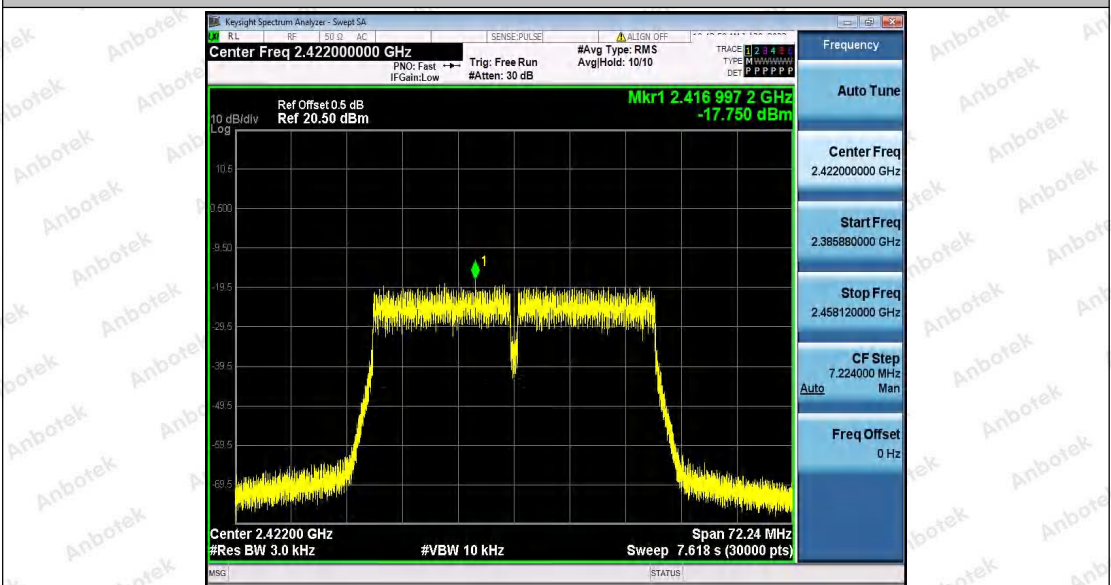
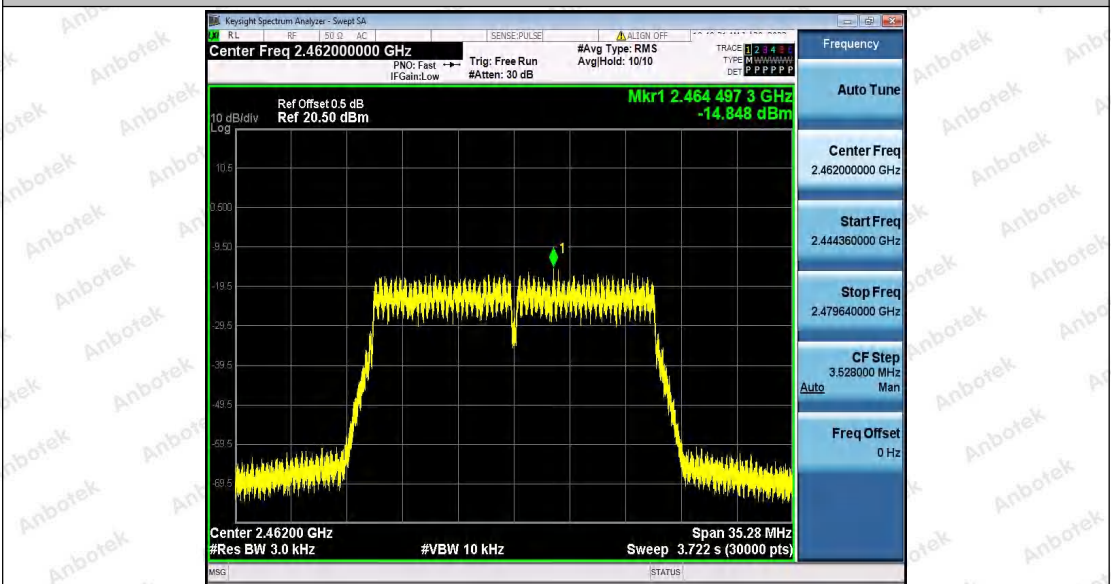
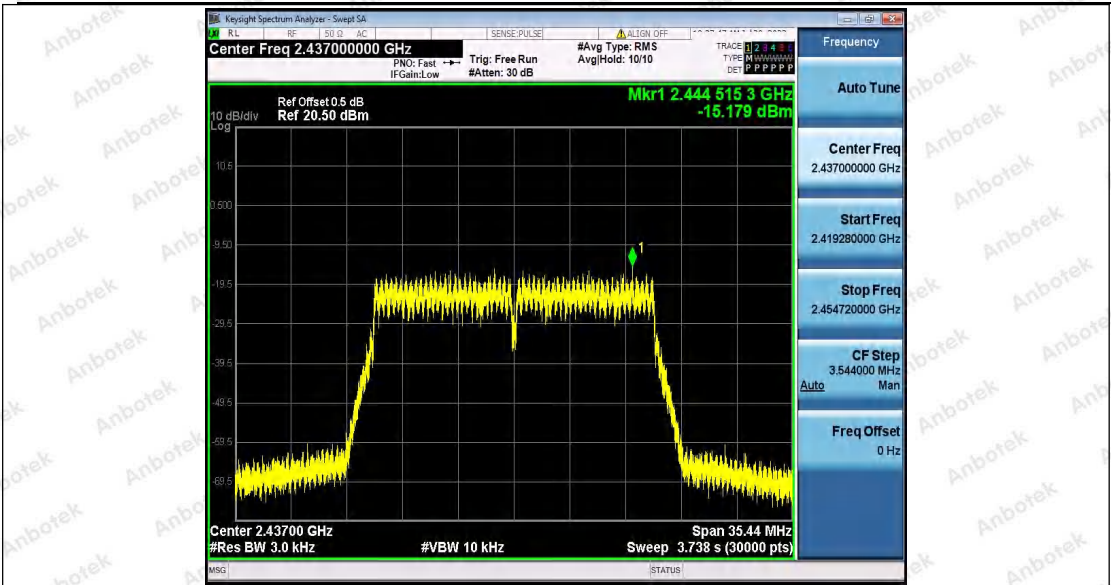
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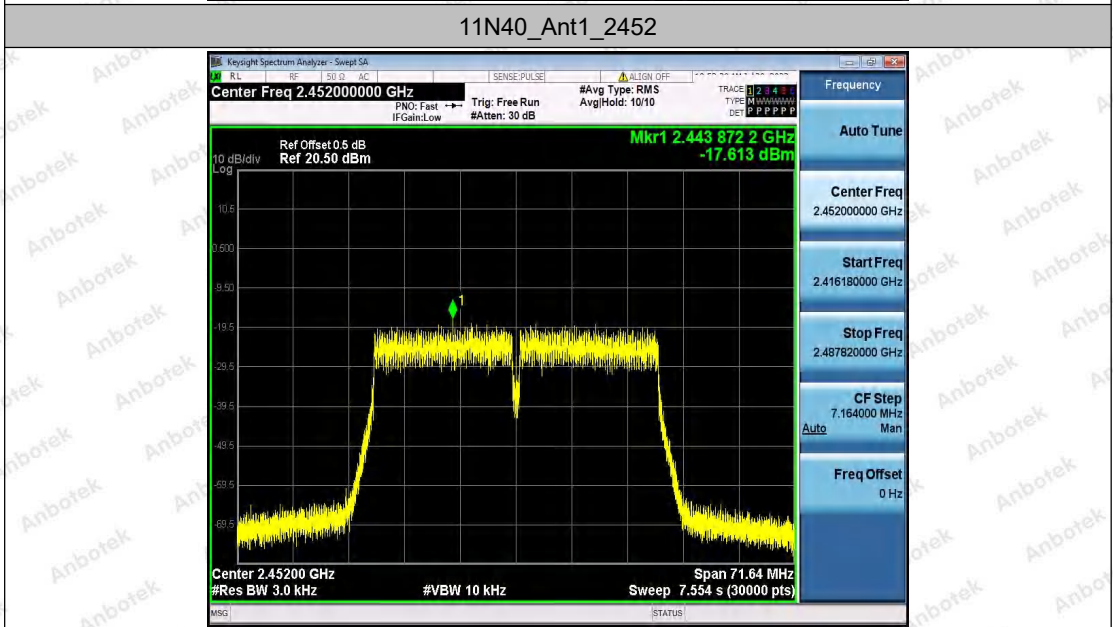
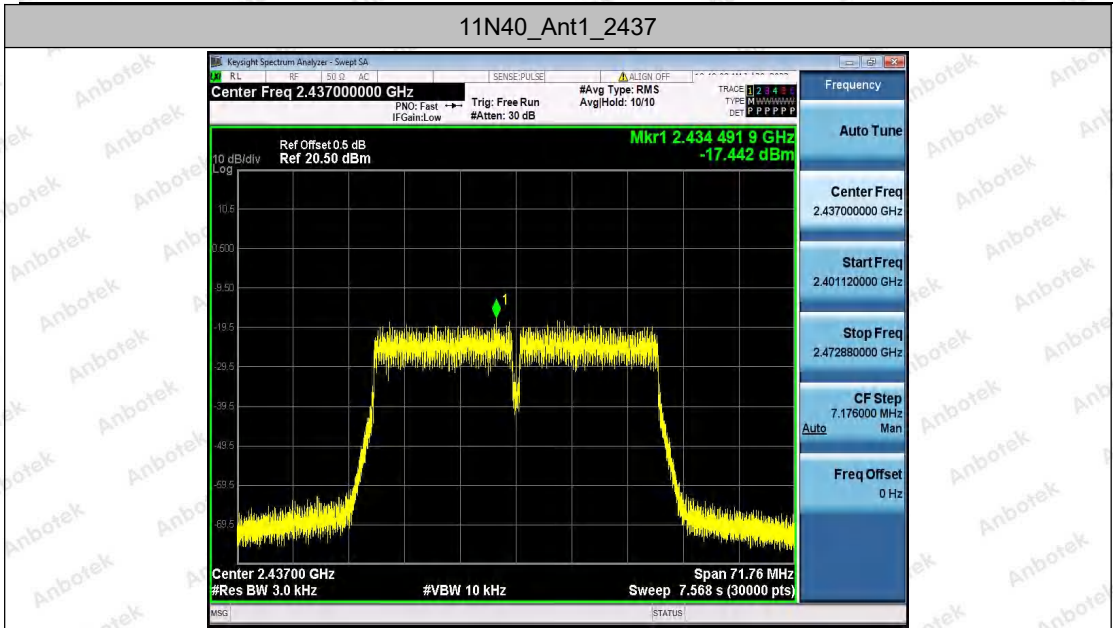
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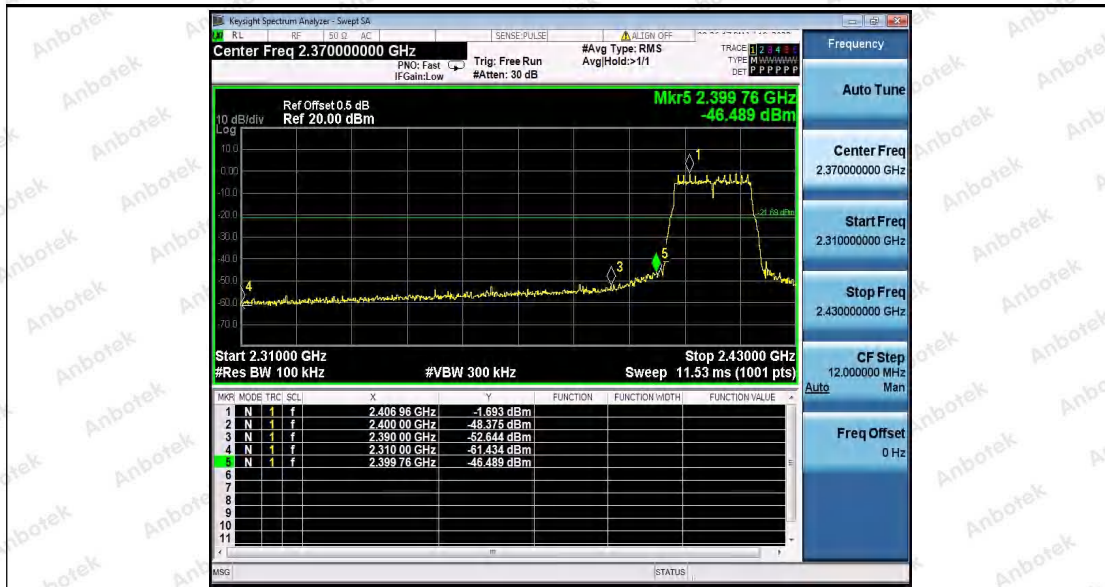
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.70	-49.68	≤-15.3	PASS
		High	2462	5.12	-55.6	≤-14.88	PASS
11G	Ant1	Low	2412	-1.69	-46.49	≤-21.69	PASS
		High	2462	-1.09	-51.15	≤-21.09	PASS
11N20	Ant1	Low	2412	-0.88	-43.93	≤-20.88	PASS
		High	2462	-1.32	-51.86	≤-21.32	PASS
11N40	Ant1	Low	2422	-4.11	-45.22	≤-24.11	PASS
		High	2452	-4.12	-49	≤-24.12	PASS

Test Graphs

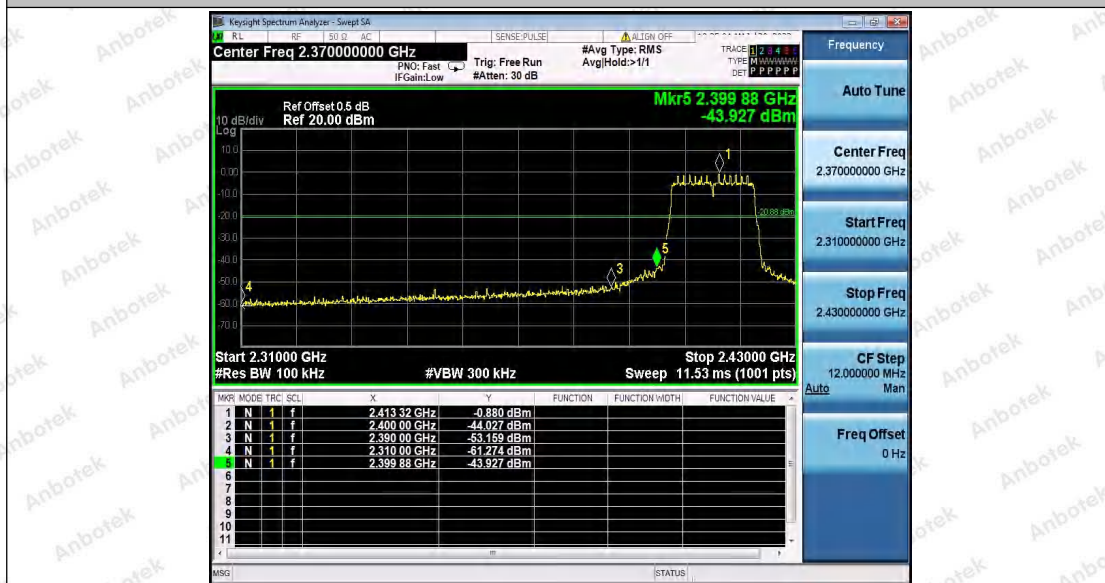




11G_Ant1_High_2462



11N20_Ant1_Low_2412



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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



11N40_Ant1_High_2452

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Appendix F: Conducted Spurious Emission

Test Result

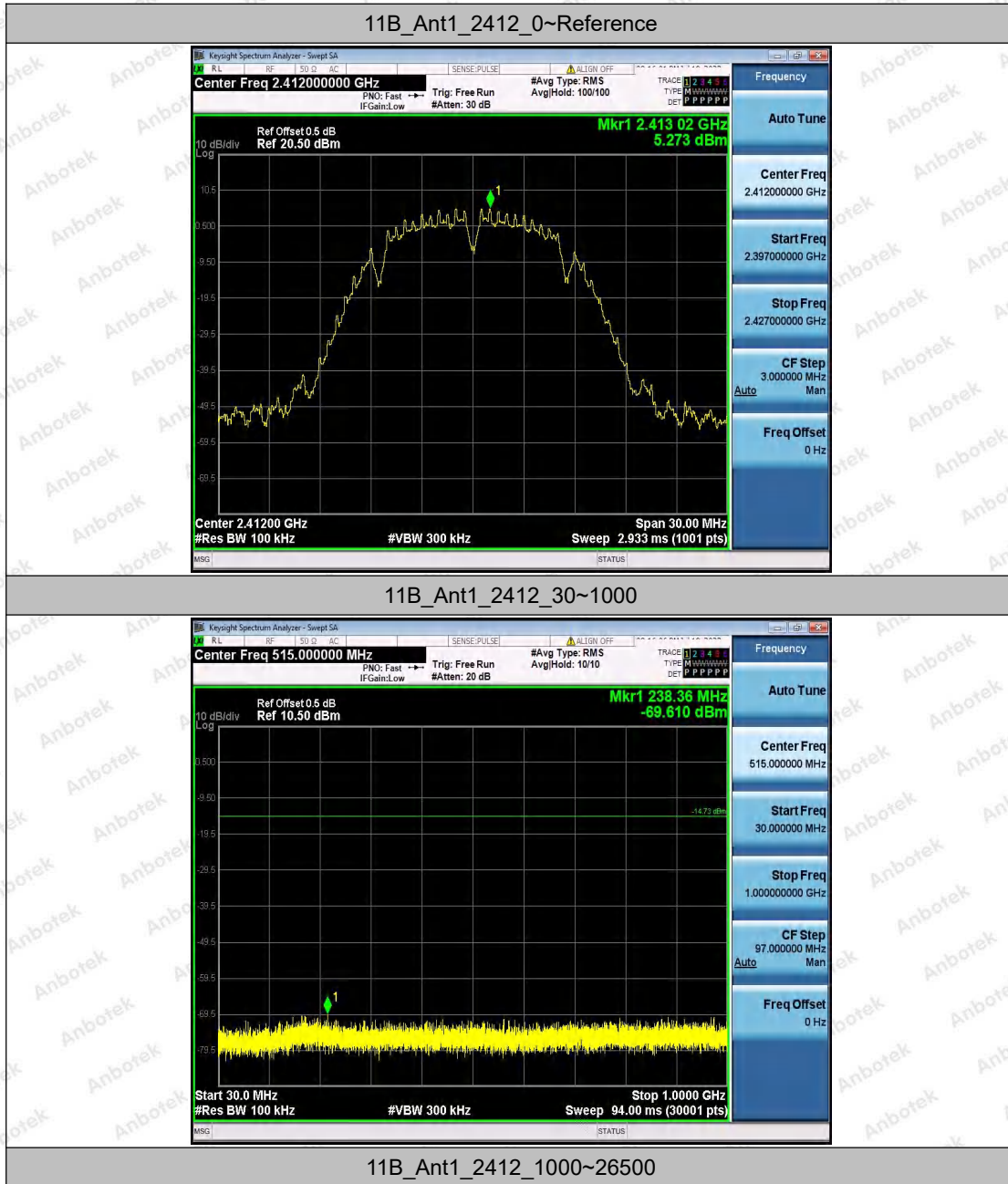
Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.27	5.27	---	PASS
			30~1000	5.27	-69.61	≤-14.73	PASS
			1000~26500	5.27	-53.7	≤-14.73	PASS
		2437	Reference	4.73	4.73	---	PASS
			30~1000	4.73	-70.2	≤-15.27	PASS
			1000~26500	4.73	-50.42	≤-15.27	PASS
		2462	Reference	5.13	5.13	---	PASS
			30~1000	5.13	-70.07	≤-14.87	PASS
			1000~26500	5.13	-35.4	≤-14.87	PASS
11G	Ant1	2412	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-68.89	≤-21.21	PASS
			1000~26500	-1.21	-53.83	≤-21.21	PASS
		2437	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-69.99	≤-22.15	PASS
			1000~26500	-2.15	-52.77	≤-22.15	PASS
		2462	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-69.44	≤-21.15	PASS
			1000~26500	-1.15	-53.03	≤-21.15	PASS
11N20	Ant1	2412	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-69.23	≤-20.69	PASS
			1000~26500	-0.69	-54.3	≤-20.69	PASS
		2437	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-70.21	≤-21.79	PASS
			1000~26500	-1.79	-54.32	≤-21.79	PASS
		2462	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-70.12	≤-22.31	PASS
			1000~26500	-2.31	-54.02	≤-22.31	PASS
11N40	Ant1	2422	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-58.43	≤-24.31	PASS
			1000~26500	-4.31	-53.83	≤-24.31	PASS
		2437	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-68.43	≤-23.72	PASS
			1000~26500	-3.72	-54.02	≤-23.72	PASS
		2452	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-69.72	≤-24.36	PASS
			1000~26500	-4.36	-53.45	≤-24.36	PASS

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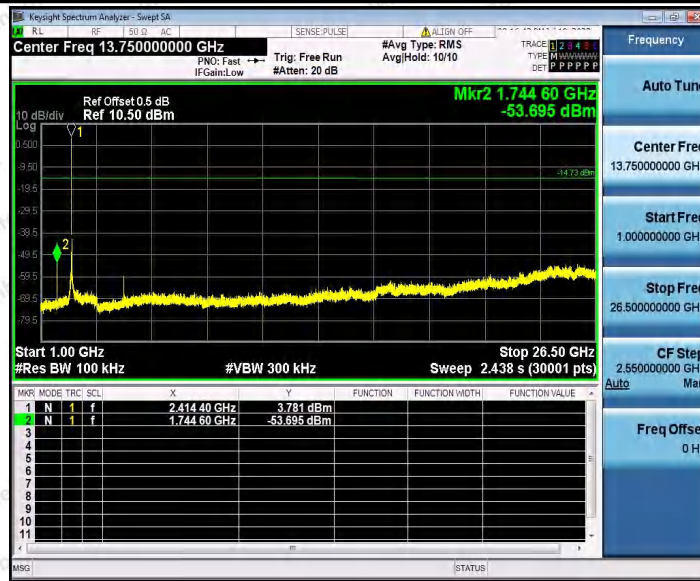
Test Graphs



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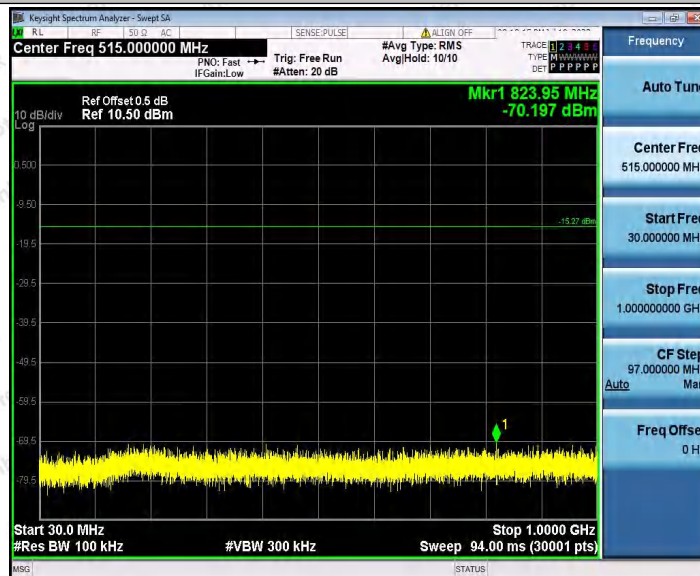
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11B_Ant1_2437_0~Reference



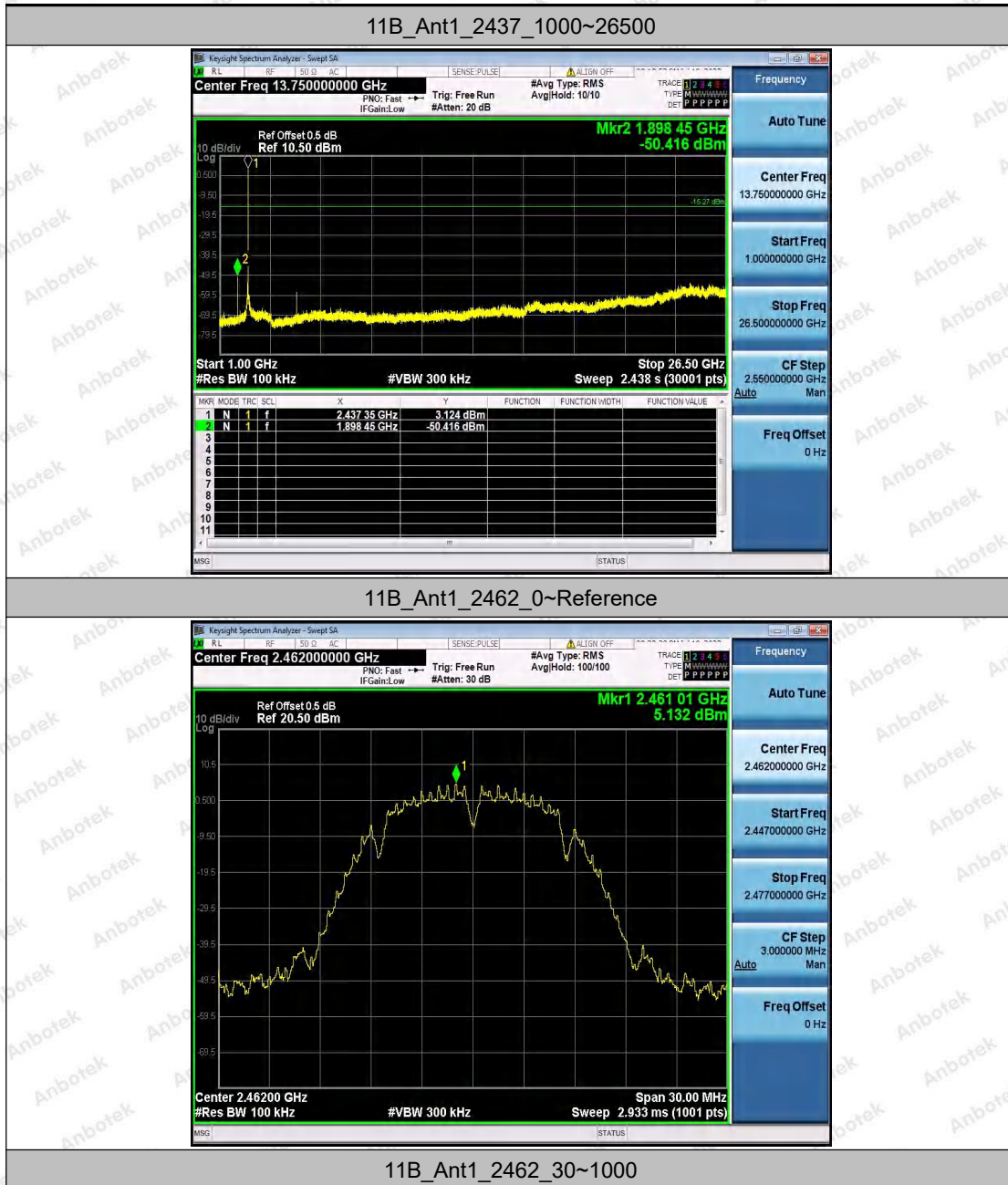
11B_Ant1_2437_30~1000



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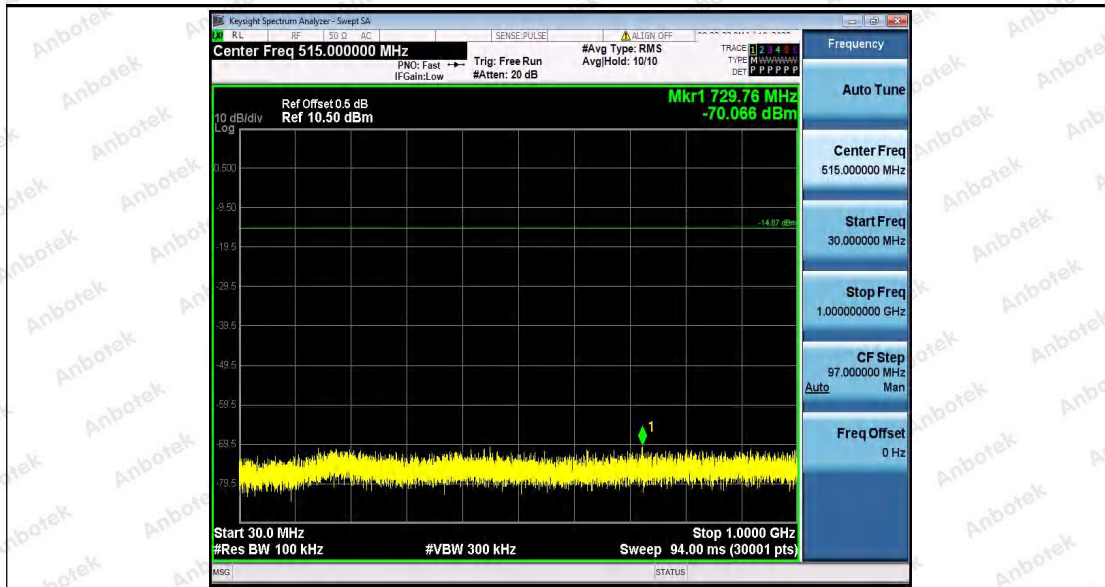
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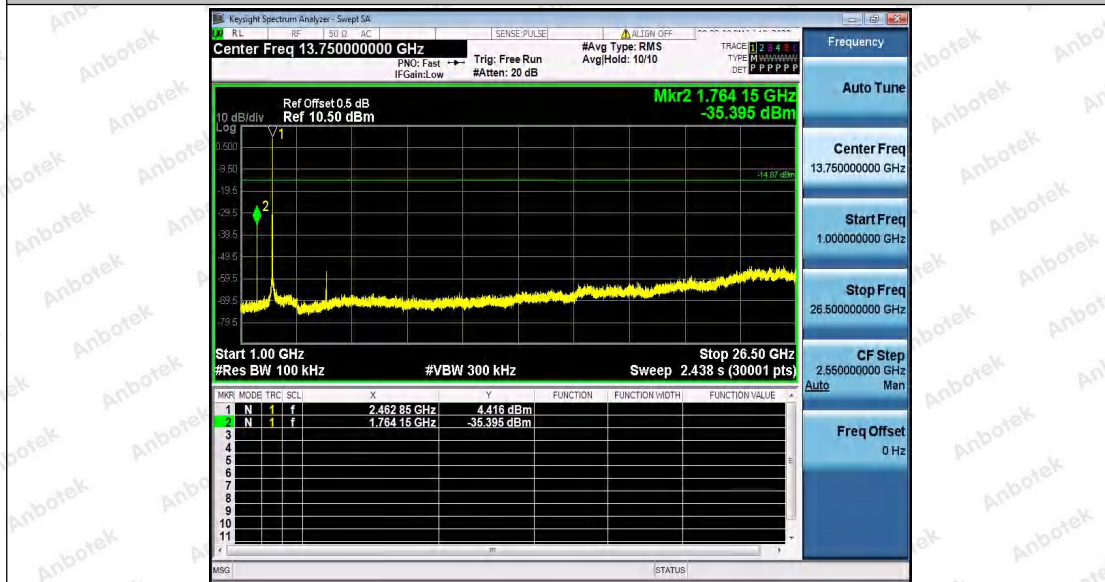
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11B_Ant1_2462_1000~26500



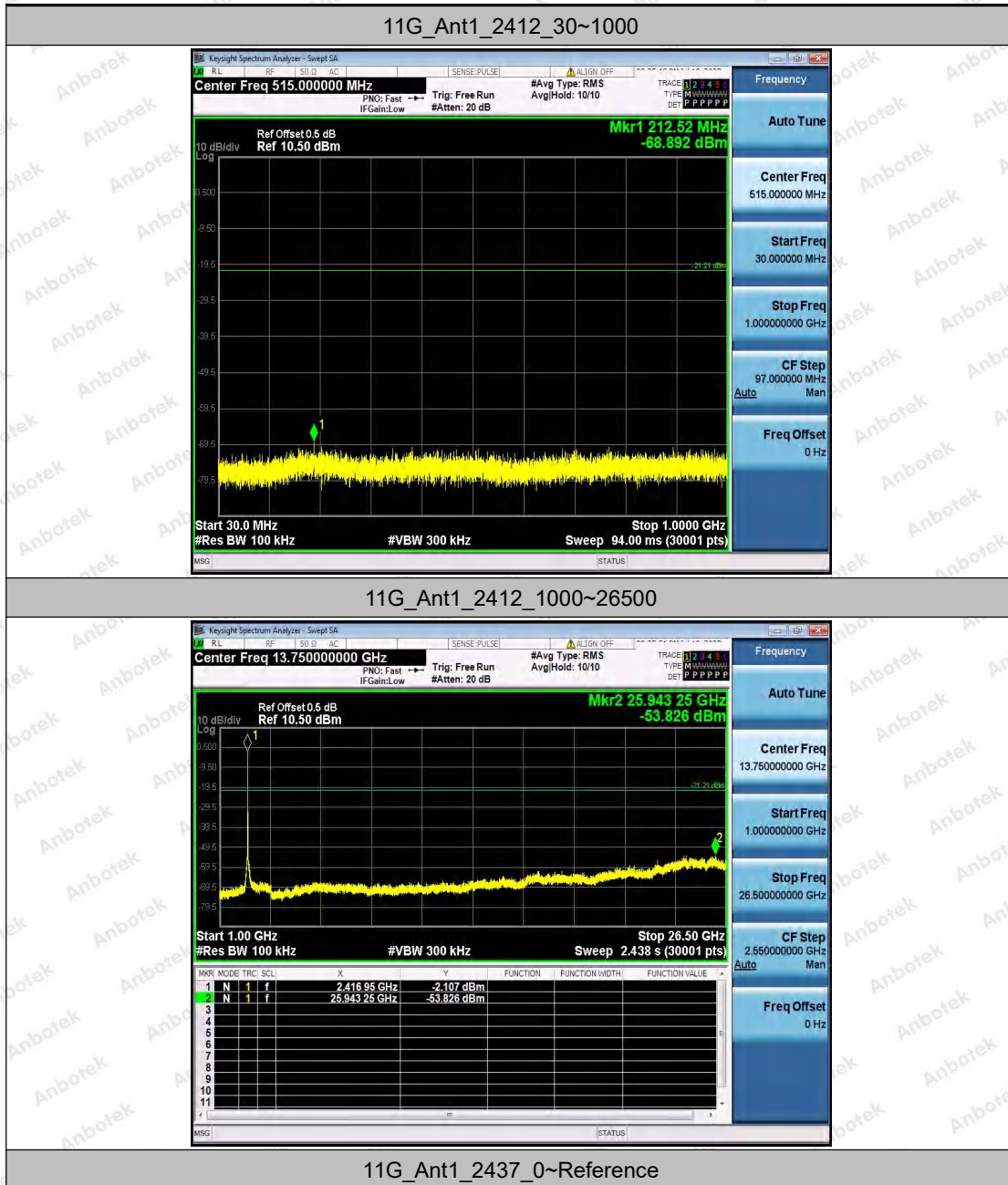
11G_Ant1_2412_0~Reference



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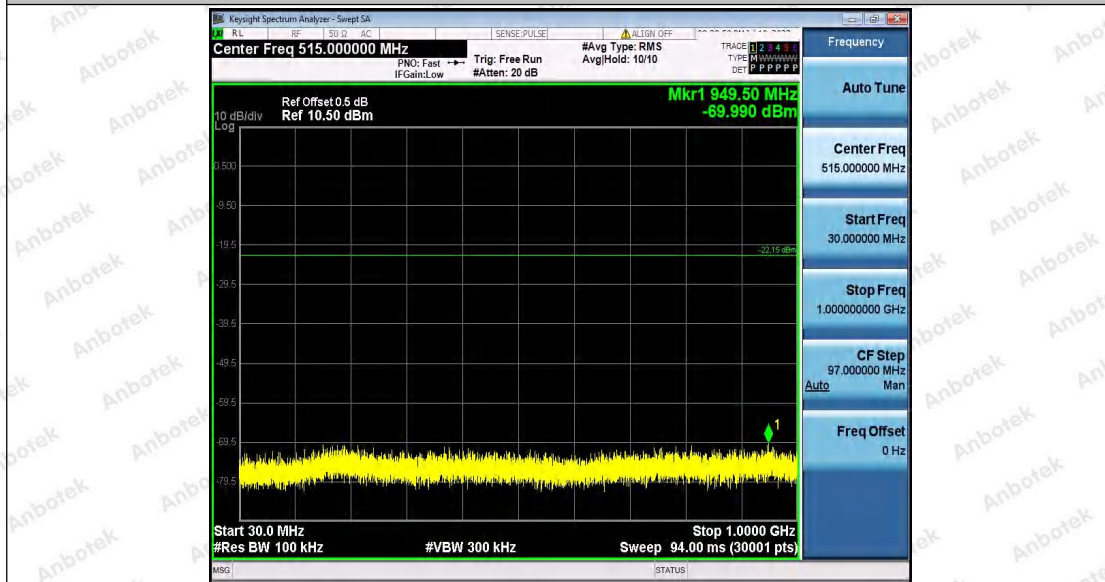
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11G_Ant1_2437_30~1000



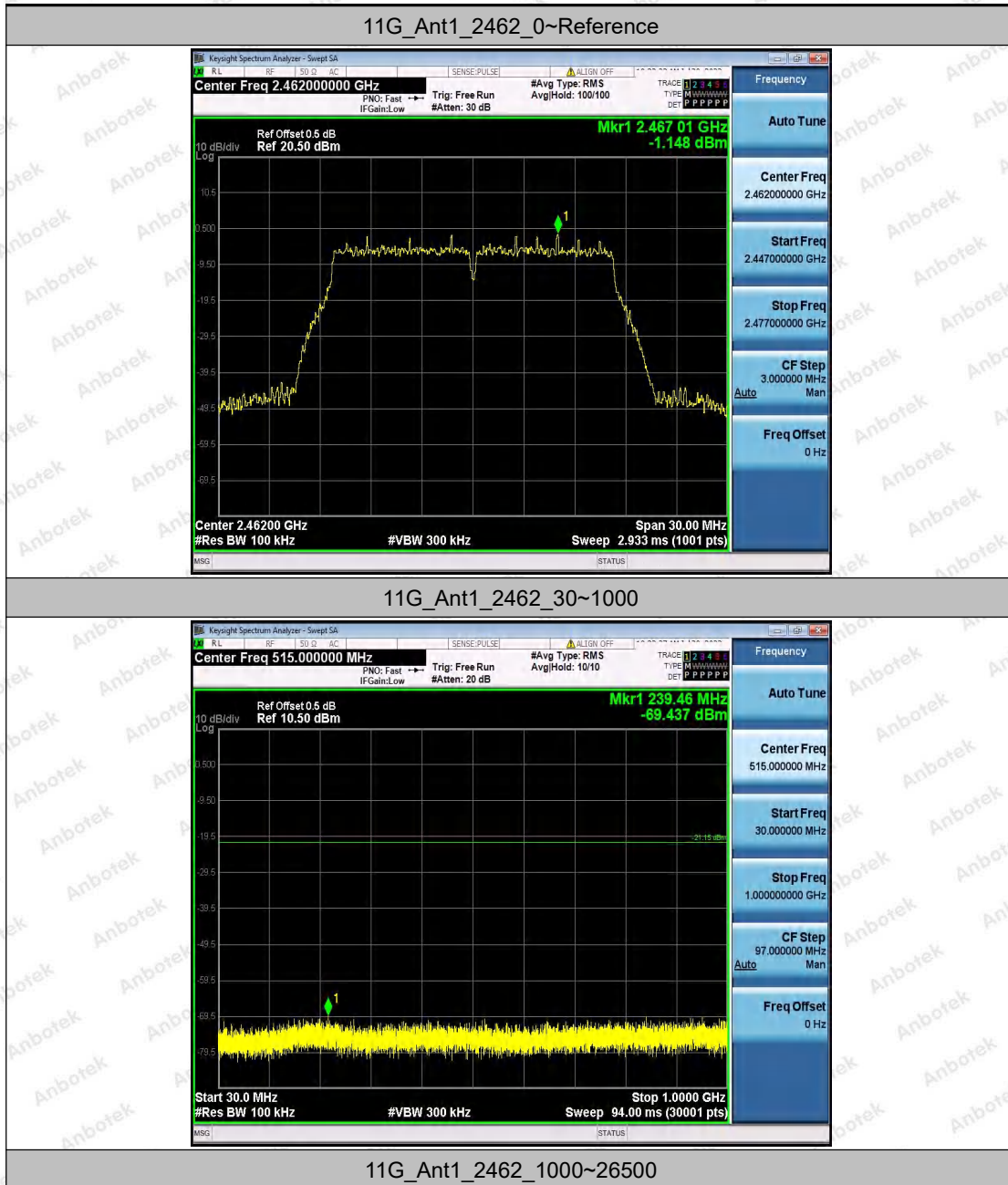
11G_Ant1_2437_1000~26500



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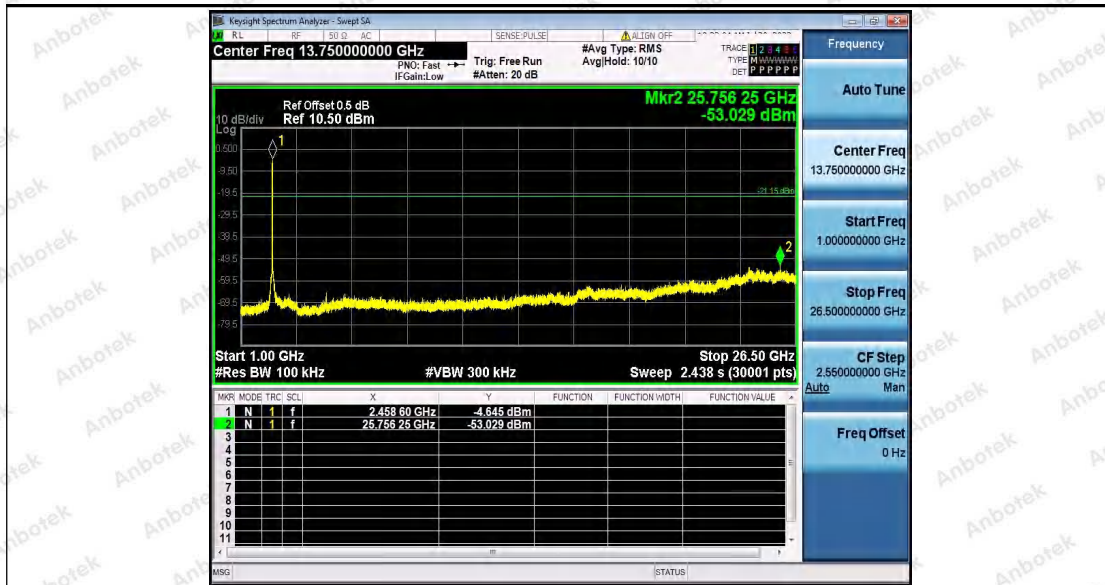
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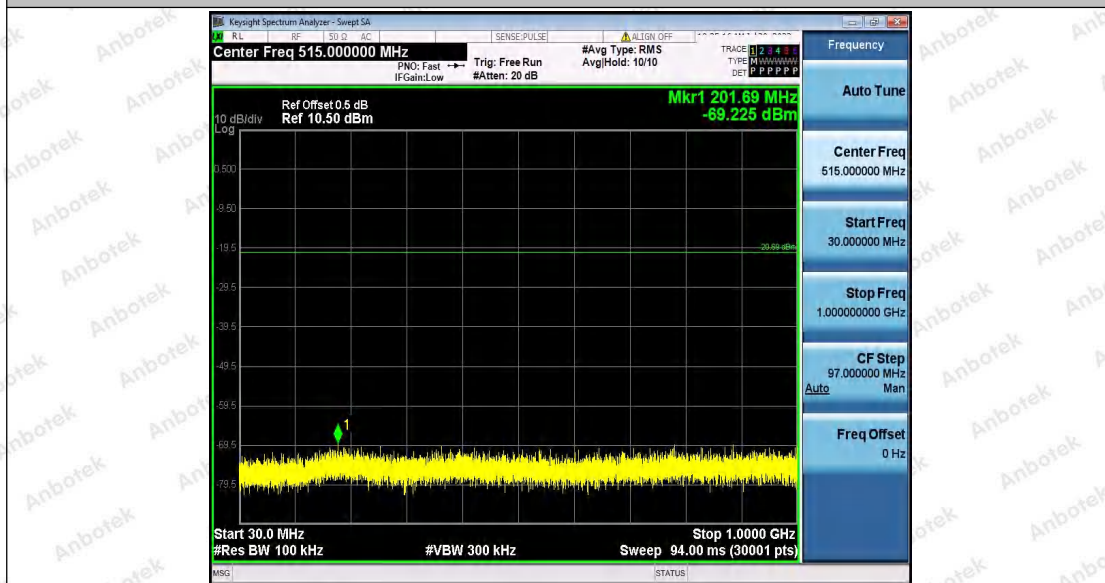
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11N20_Ant1_2412_0~Reference



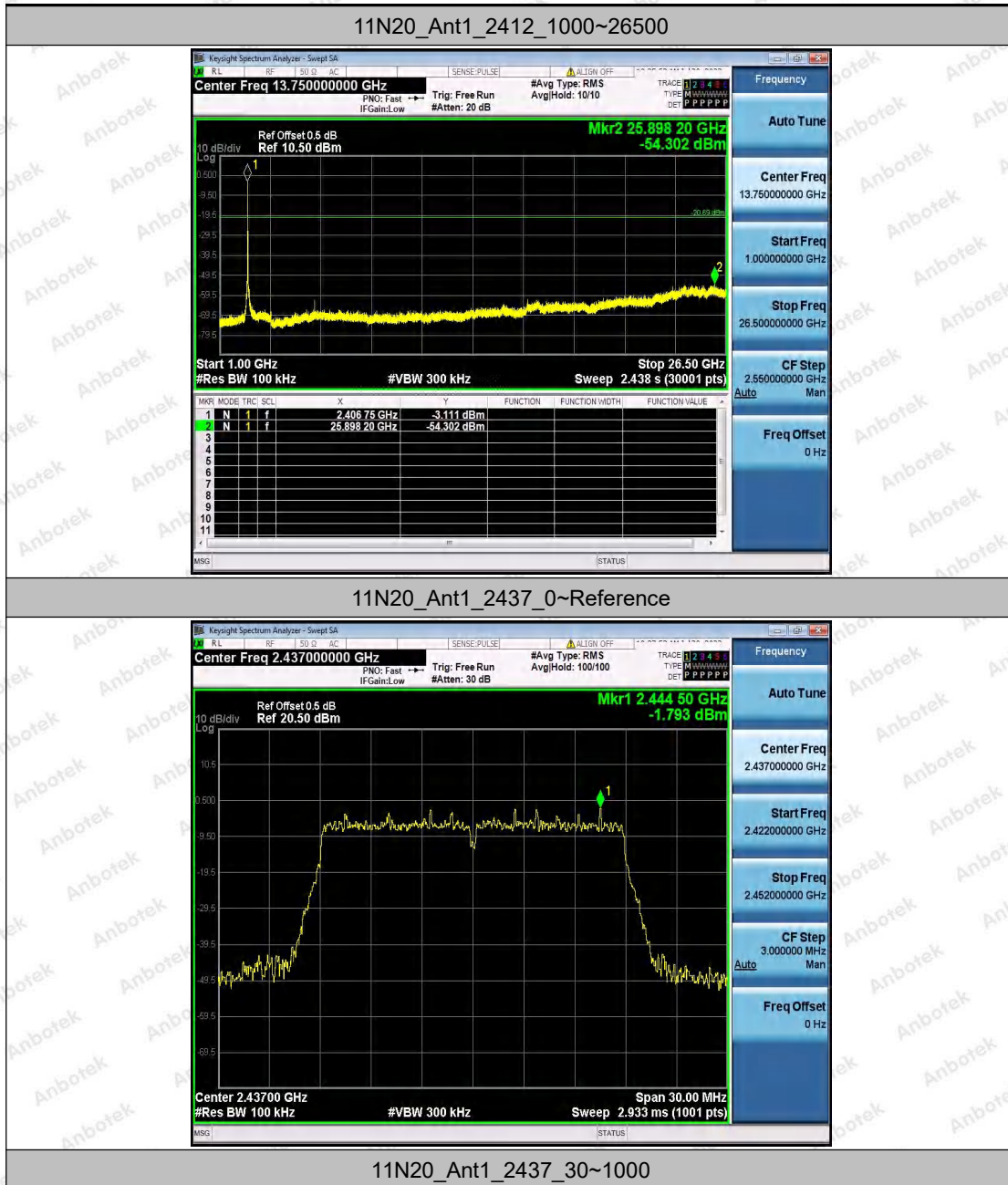
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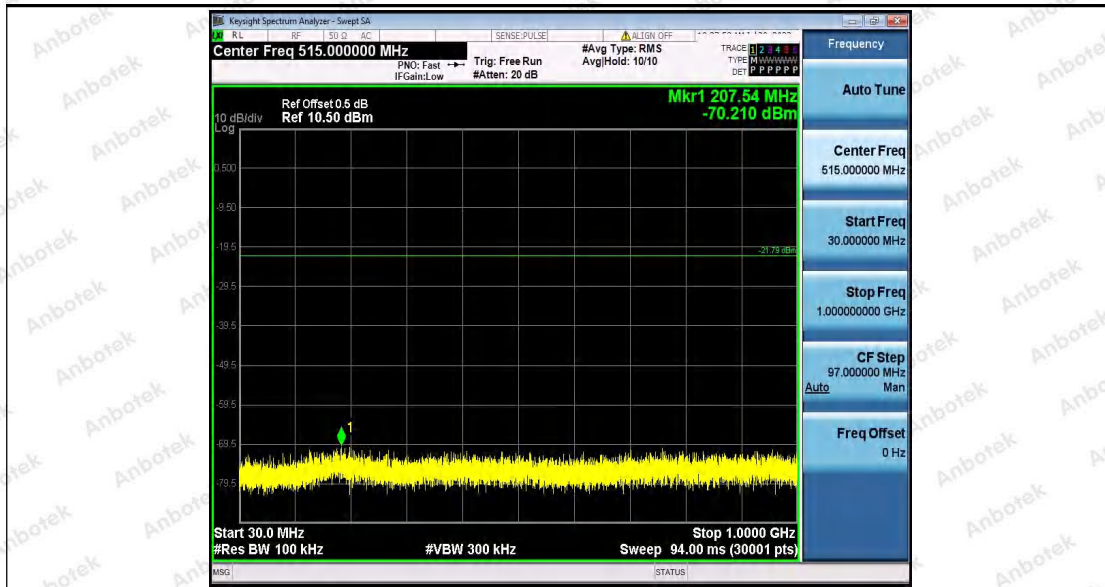
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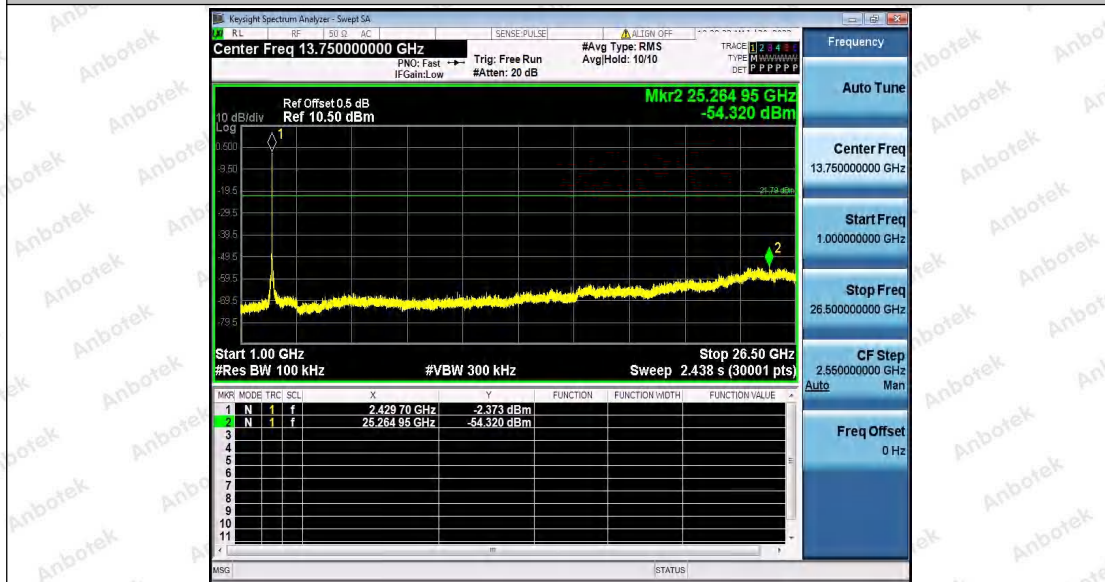
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11N20_Ant1_2437_1000~26500



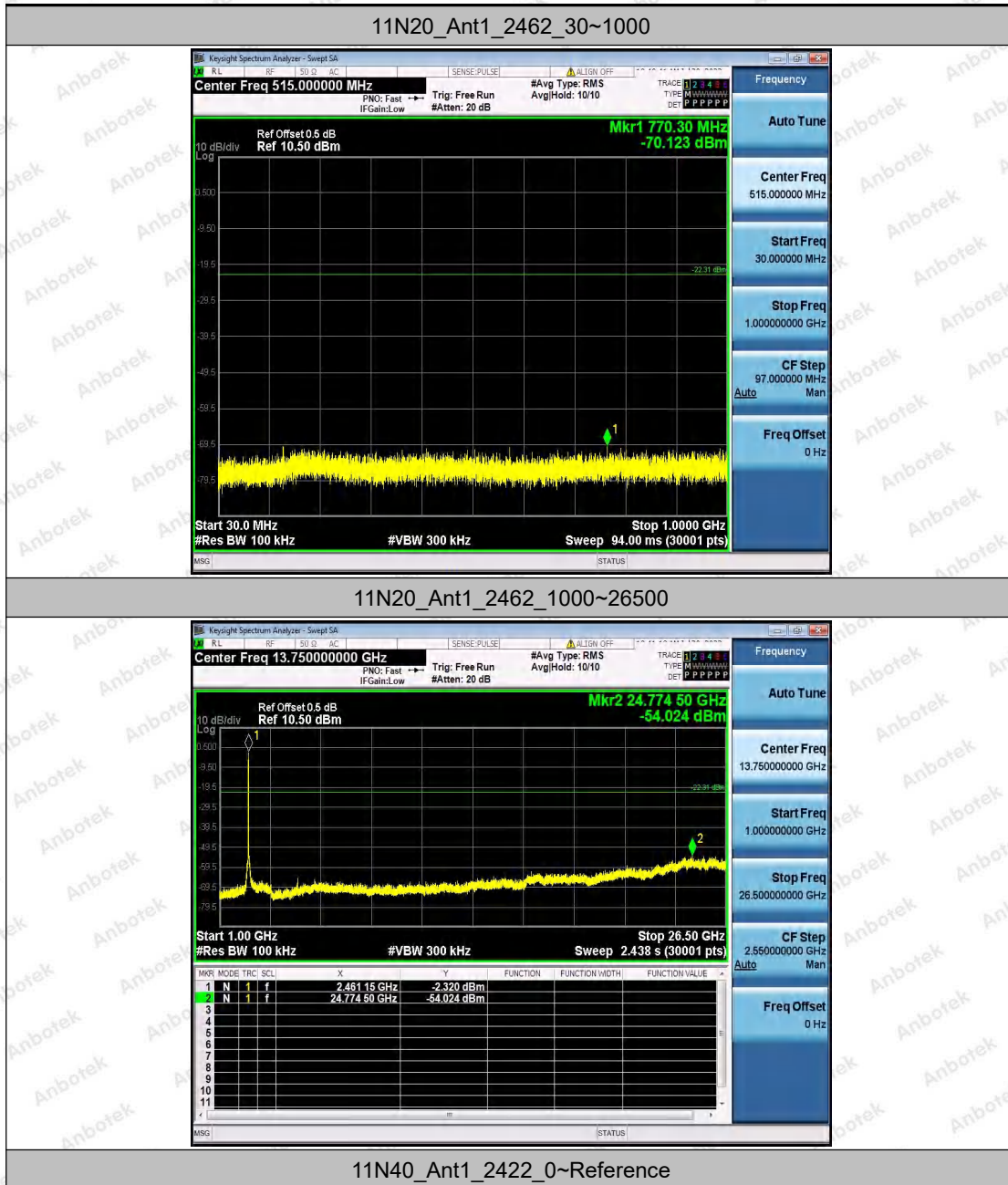
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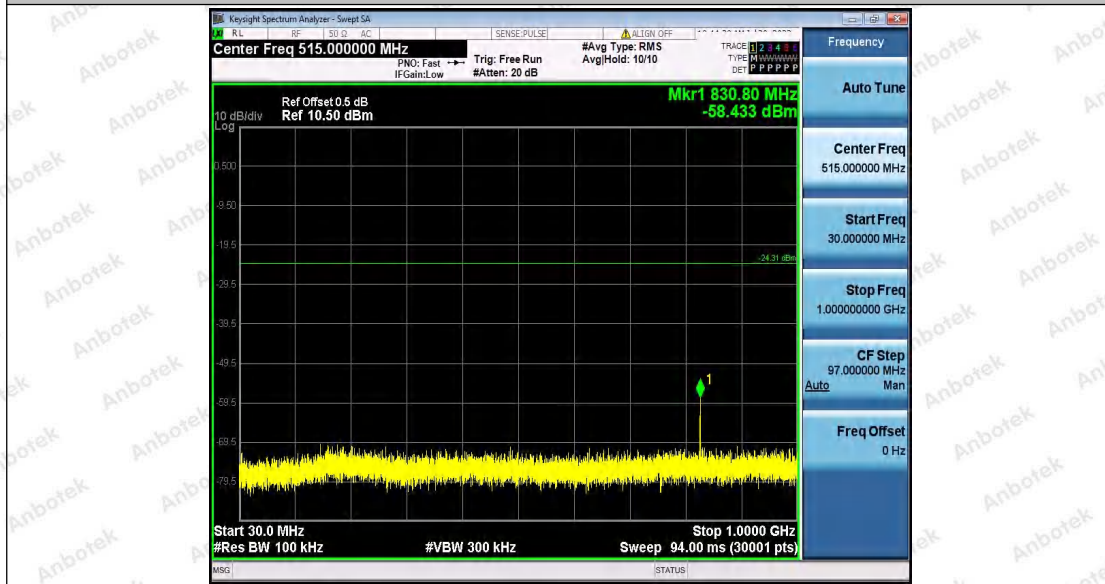
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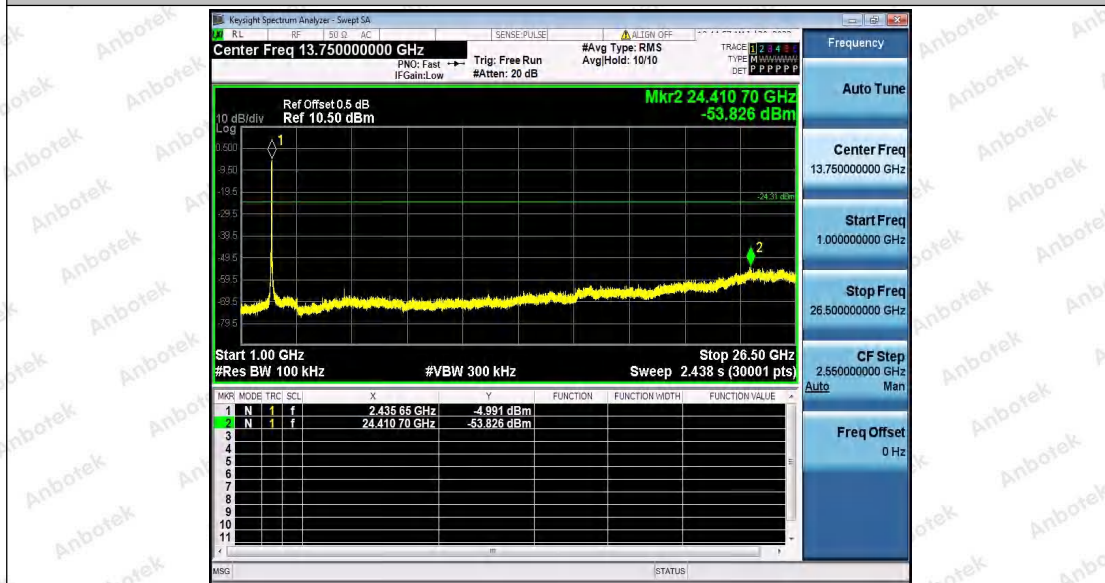
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11N40_Ant1_2422_30~1000



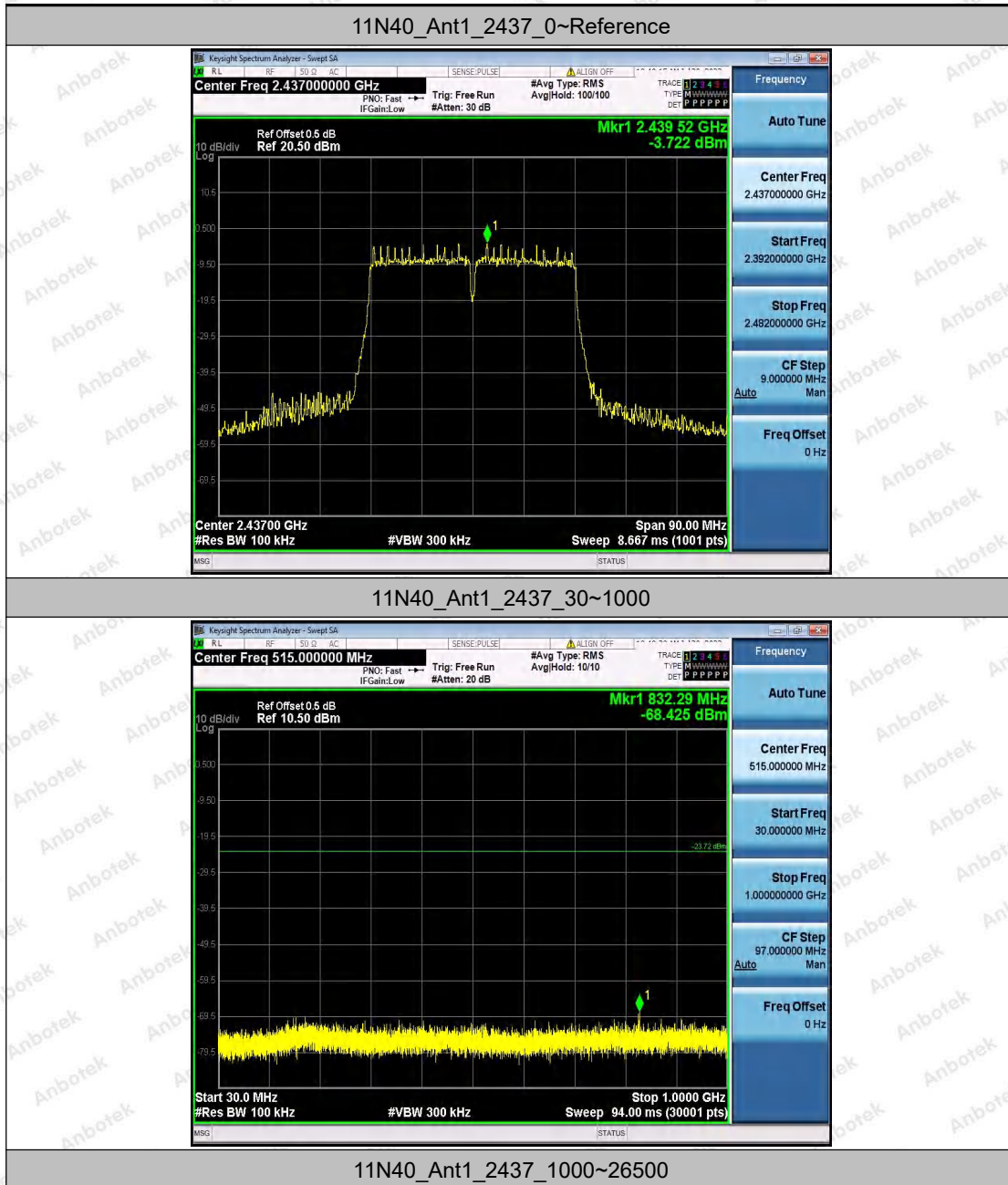
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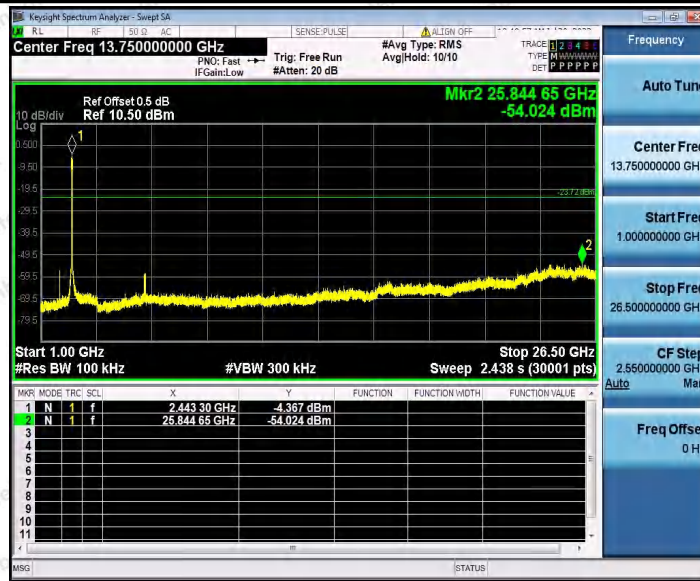
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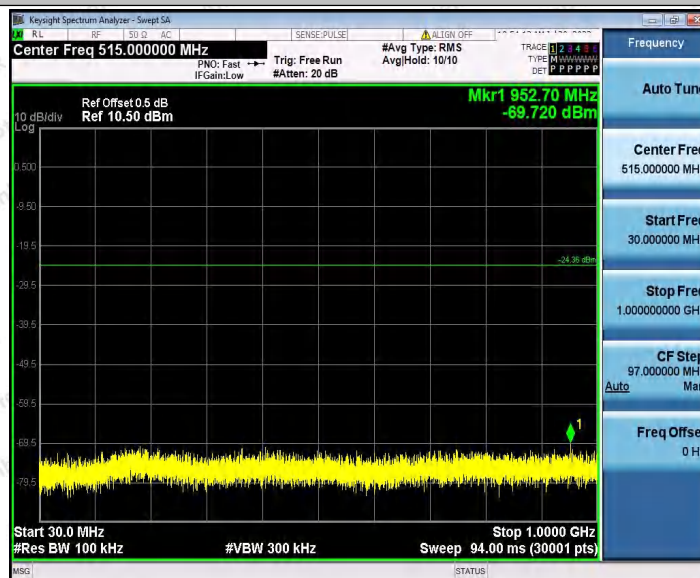
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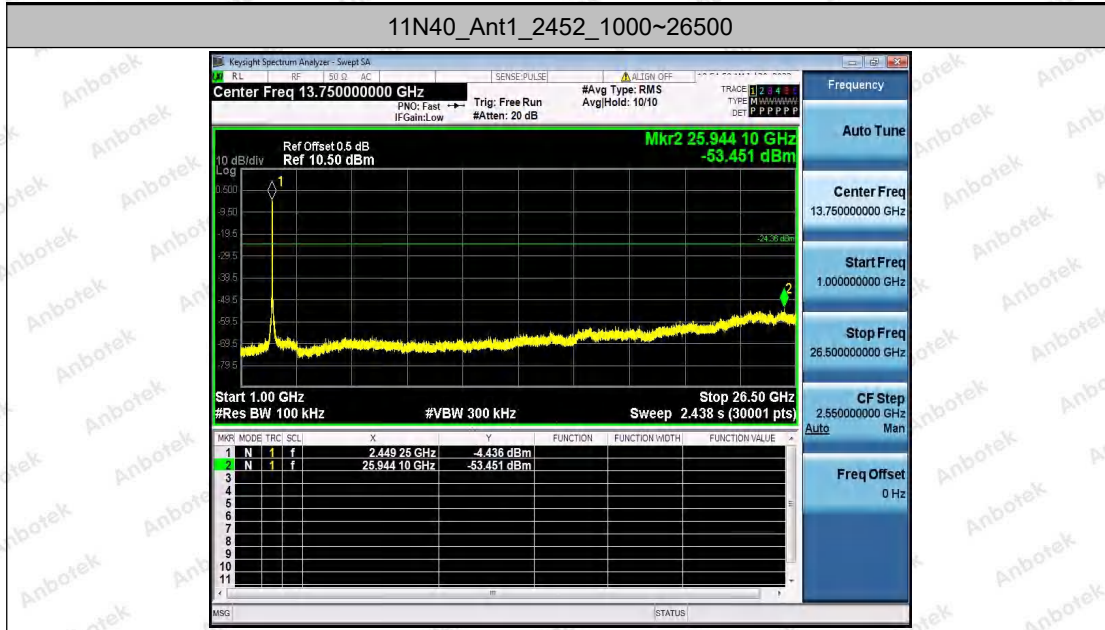
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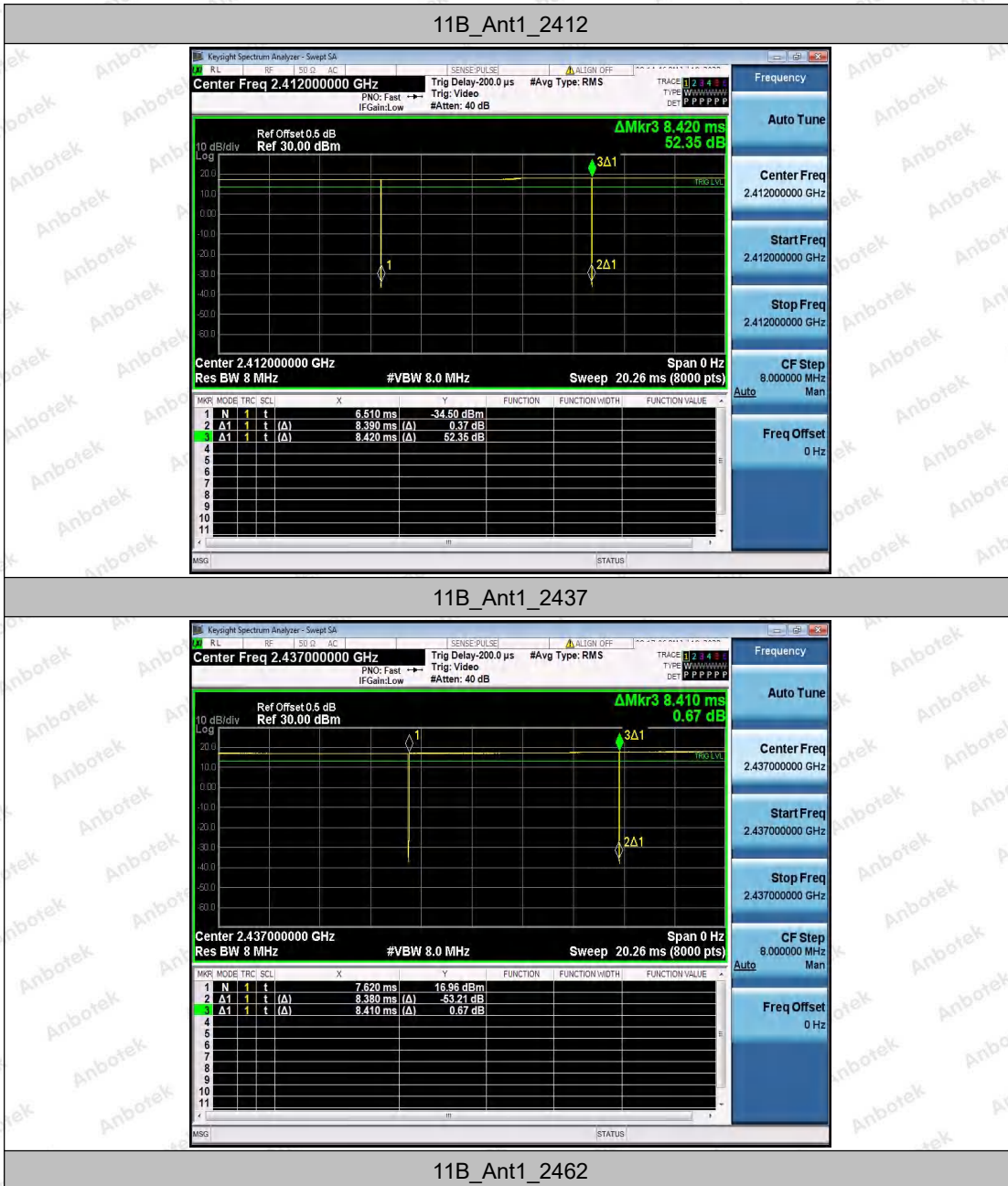
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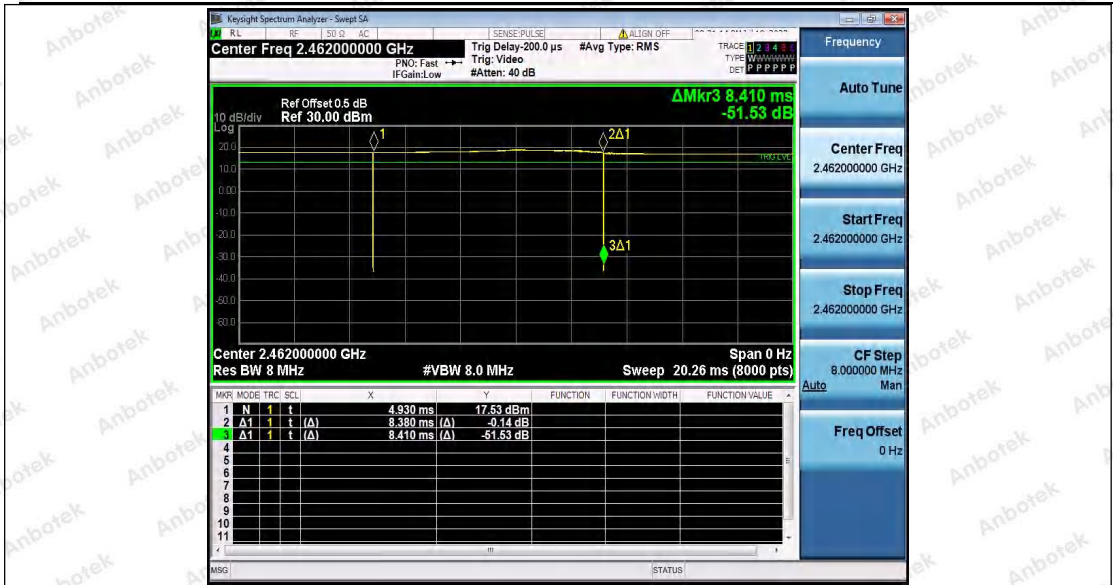
Appendix G: Duty Cycle

Test Result

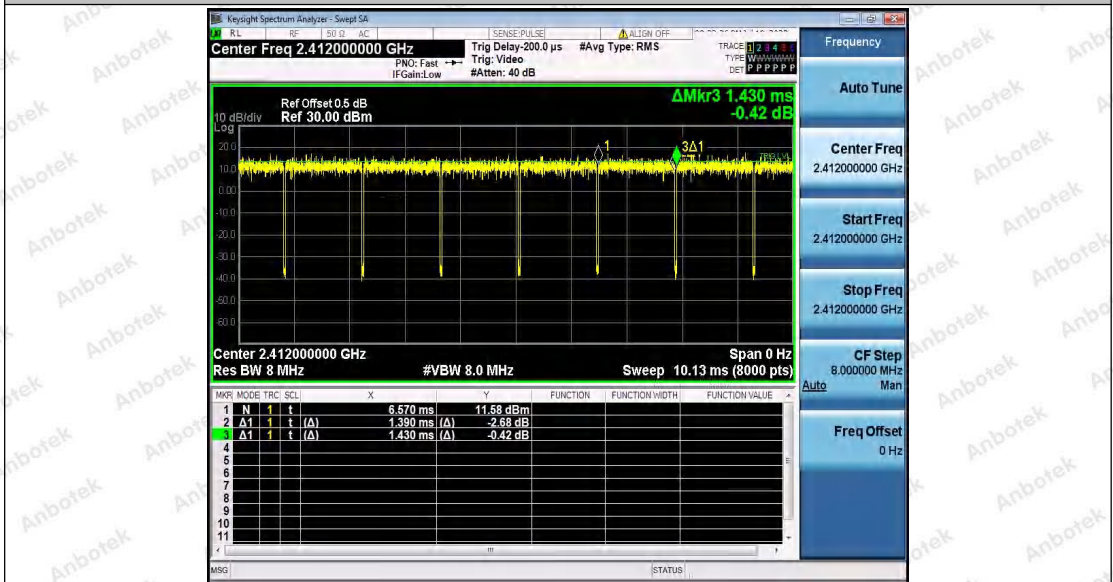
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.42	99.64	---	PASS
		2437	8.38	8.41	99.64	---	PASS
		2462	8.38	8.41	99.64	---	PASS
11G	Ant1	2412	1.39	1.43	97.20	---	PASS
		2437	1.39	1.42	97.89	---	PASS
		2462	1.39	1.43	97.20	---	PASS
11N20	Ant1	2412	1.30	1.33	97.74	---	PASS
		2437	1.30	1.34	97.01	---	PASS
		2462	1.30	1.34	97.01	---	PASS
11N40	Ant1	2422	0.64	0.68	94.12	---	PASS
		2437	0.65	0.68	95.59	---	PASS
		2452	0.65	0.69	94.20	---	PASS

Test Graphs

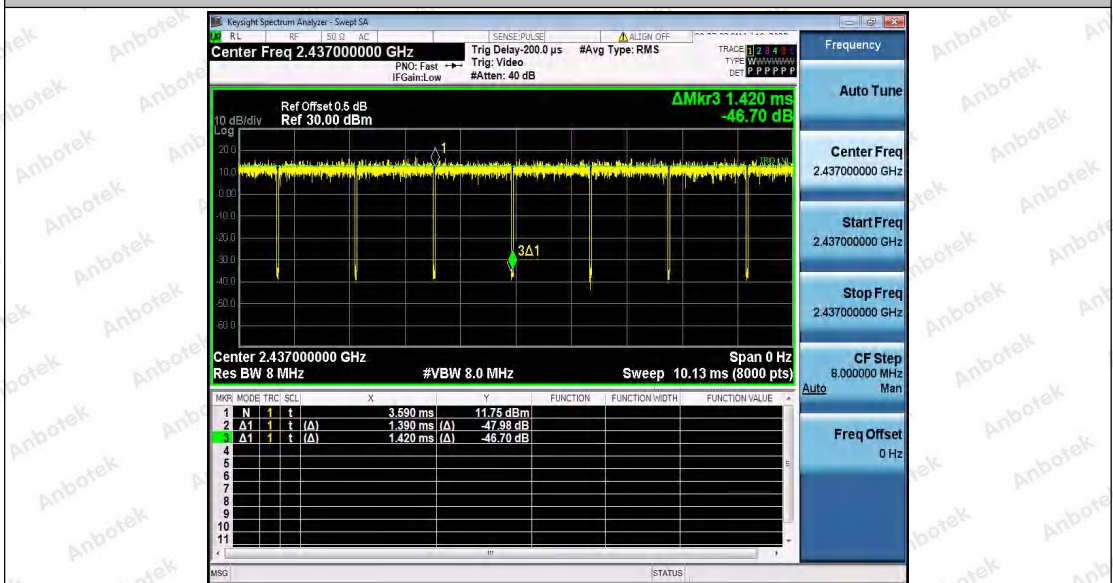




11G_Ant1_2412



11G_Ant1_2437

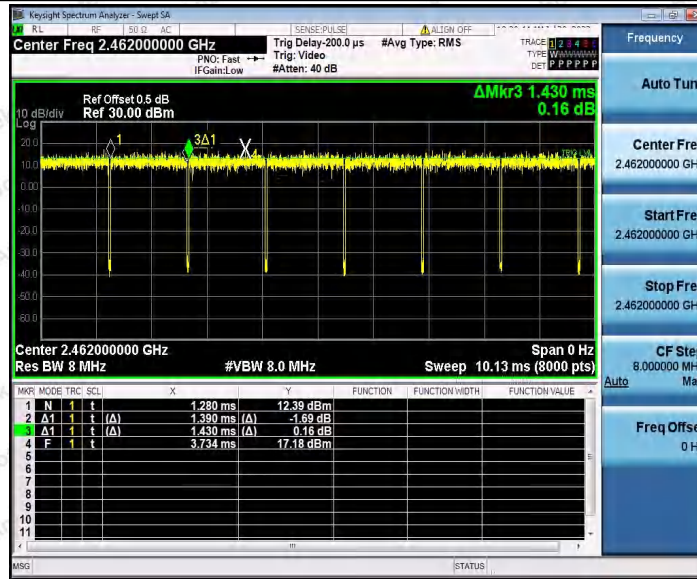


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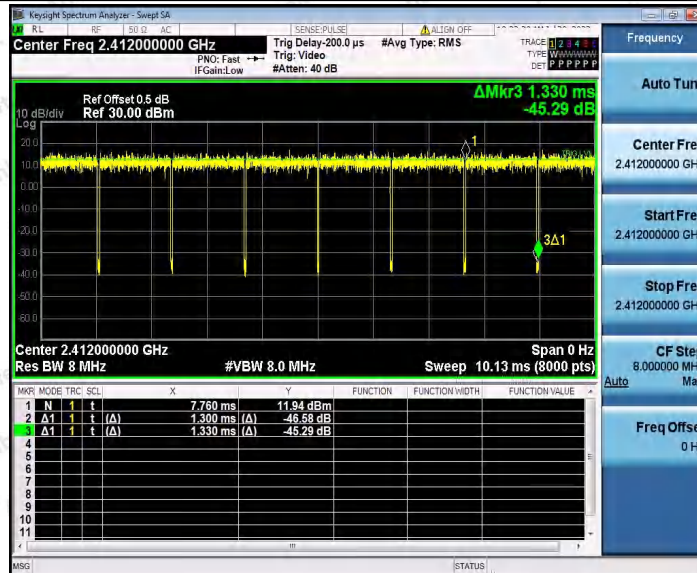
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11G_Ant1_2462



11N20_Ant1_2412

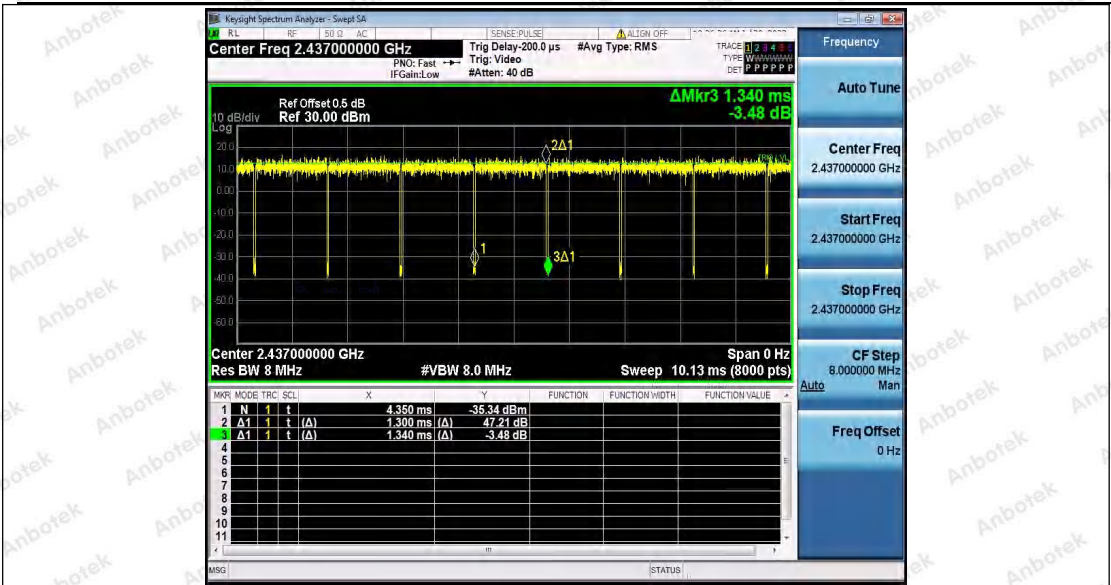


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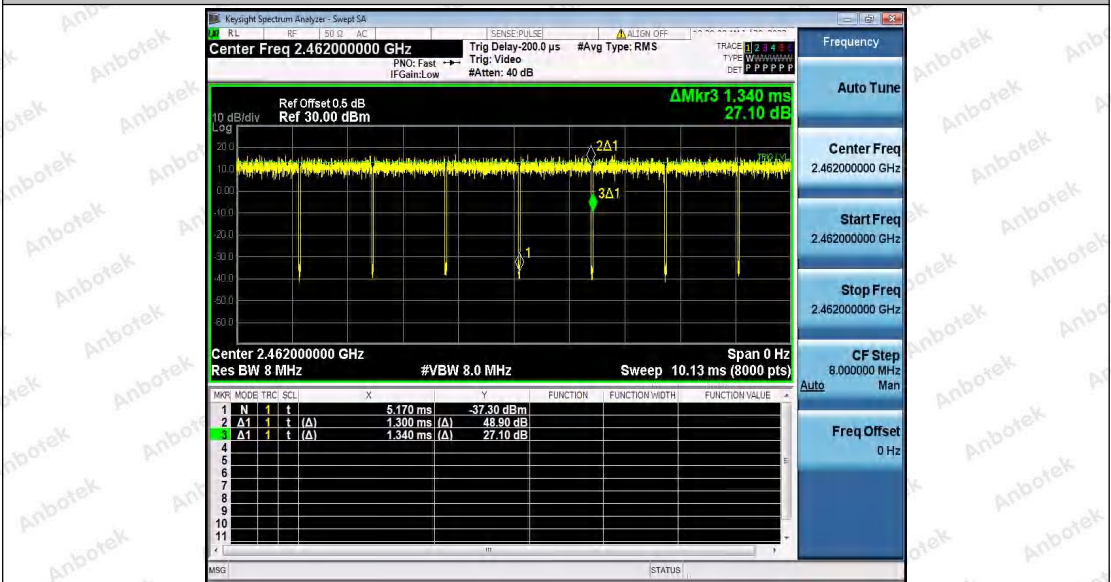
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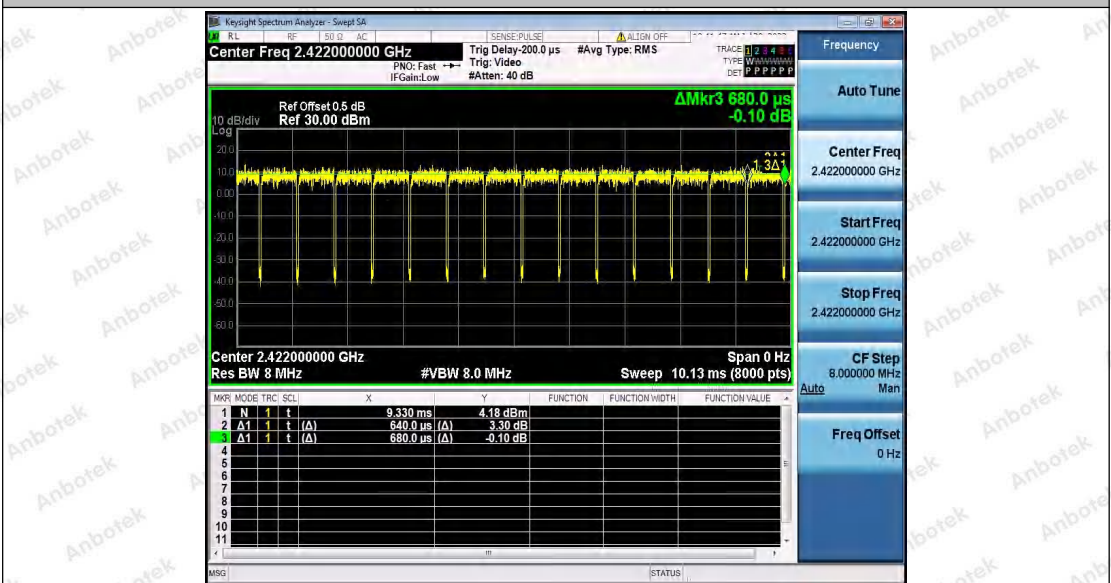
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11N20_Ant1_2462



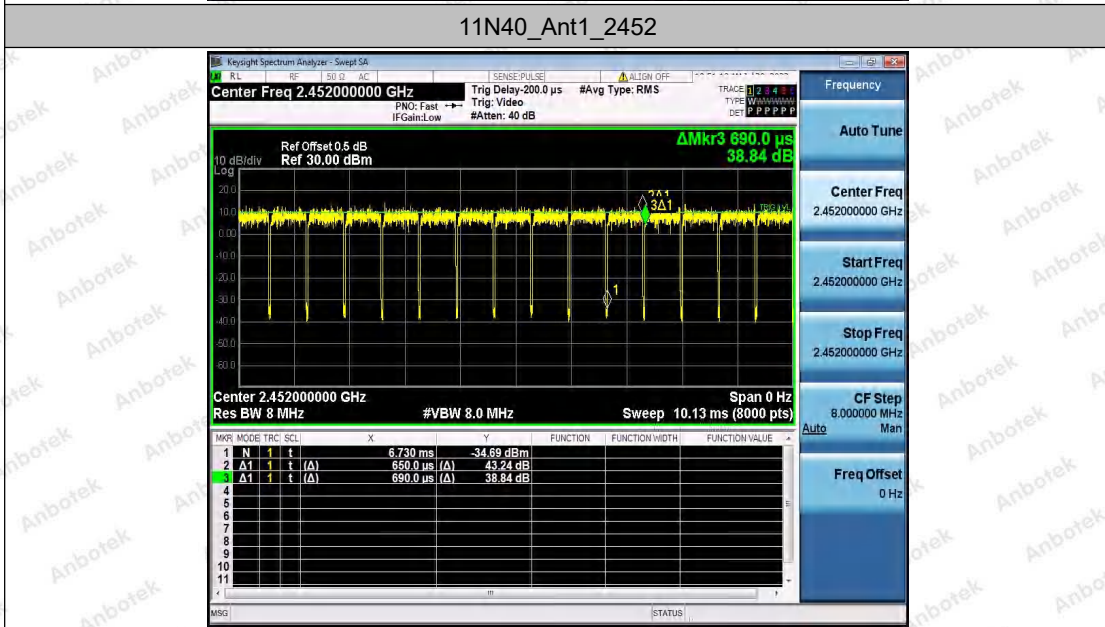
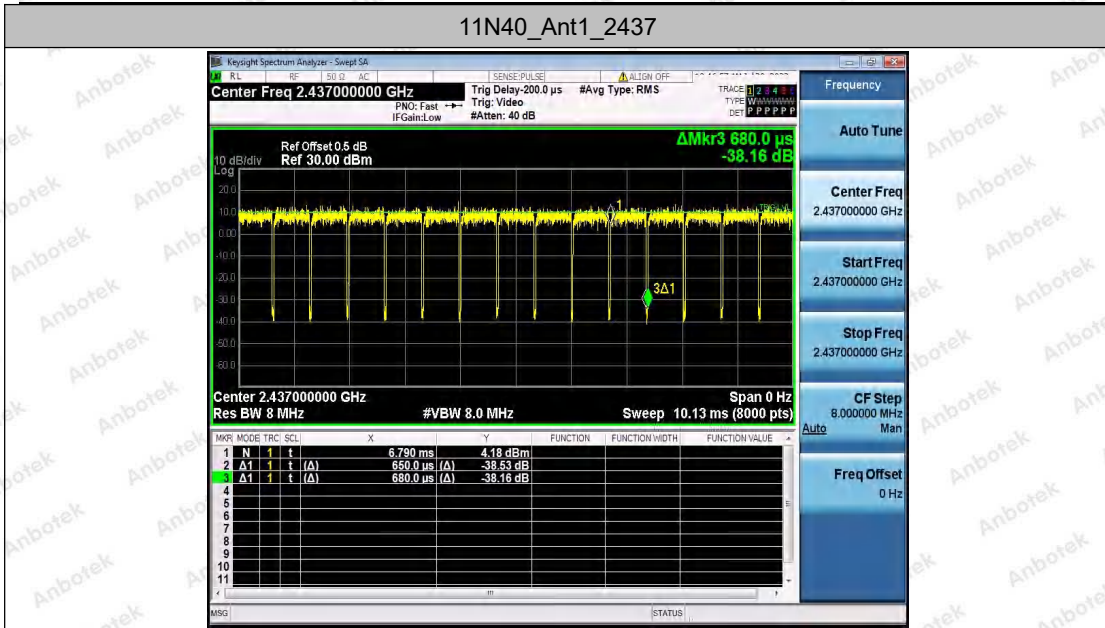
11N40_Ant1_2422



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