

Appendix Test Data

Report No.:	18220WC10241202	Test Date:	2021.11.3
Test Engineer:	<i>Jony 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	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.640	2407.440	2417.080	≥0.5	PASS
		2437	9.600	2431.960	2441.560	≥0.5	PASS
		2462	8.680	2457.920	2466.600	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
		2437	13.280	2430.320	2443.600	≥0.5	PASS
		2462	13.280	2455.640	2468.920	≥0.5	PASS
11N20	Ant1	2412	15.160	2404.440	2419.600	≥0.5	PASS
		2437	15.080	2429.480	2444.560	≥0.5	PASS
		2462	15.720	2454.720	2470.440	≥0.5	PASS
11N40	Ant1	2422	35.160	2404.420	2439.580	≥0.5	PASS
		2437	35.160	2419.480	2454.640	≥0.5	PASS
		2452	34.320	2435.620	2469.940	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



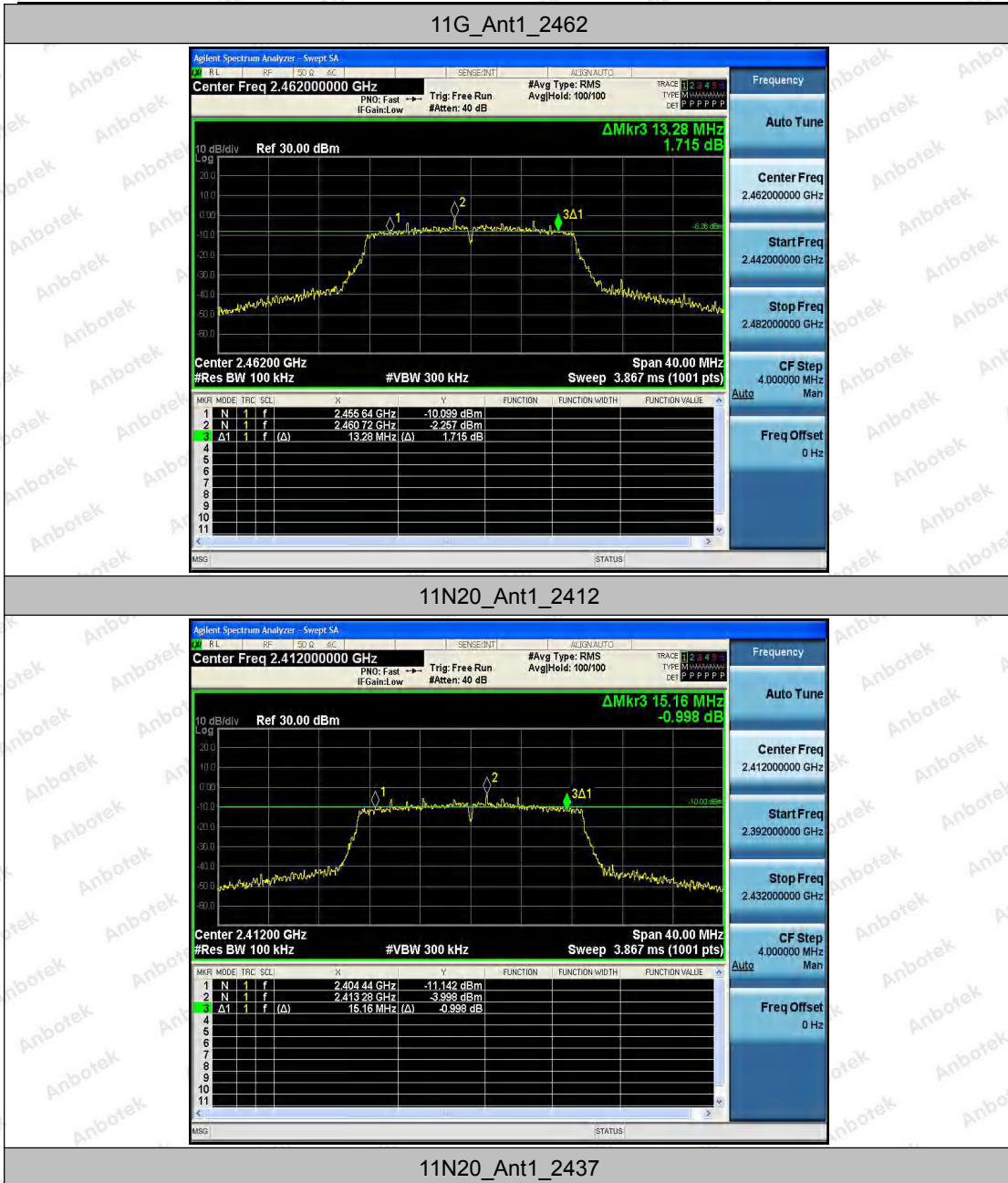
11G_Ant1_2437



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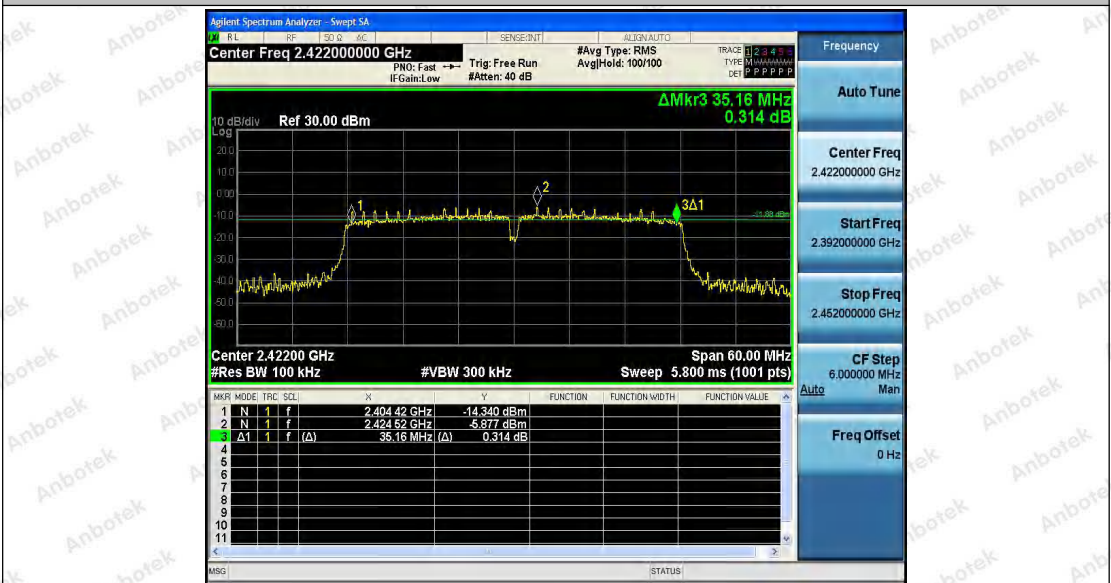
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11N20_Ant1_2462



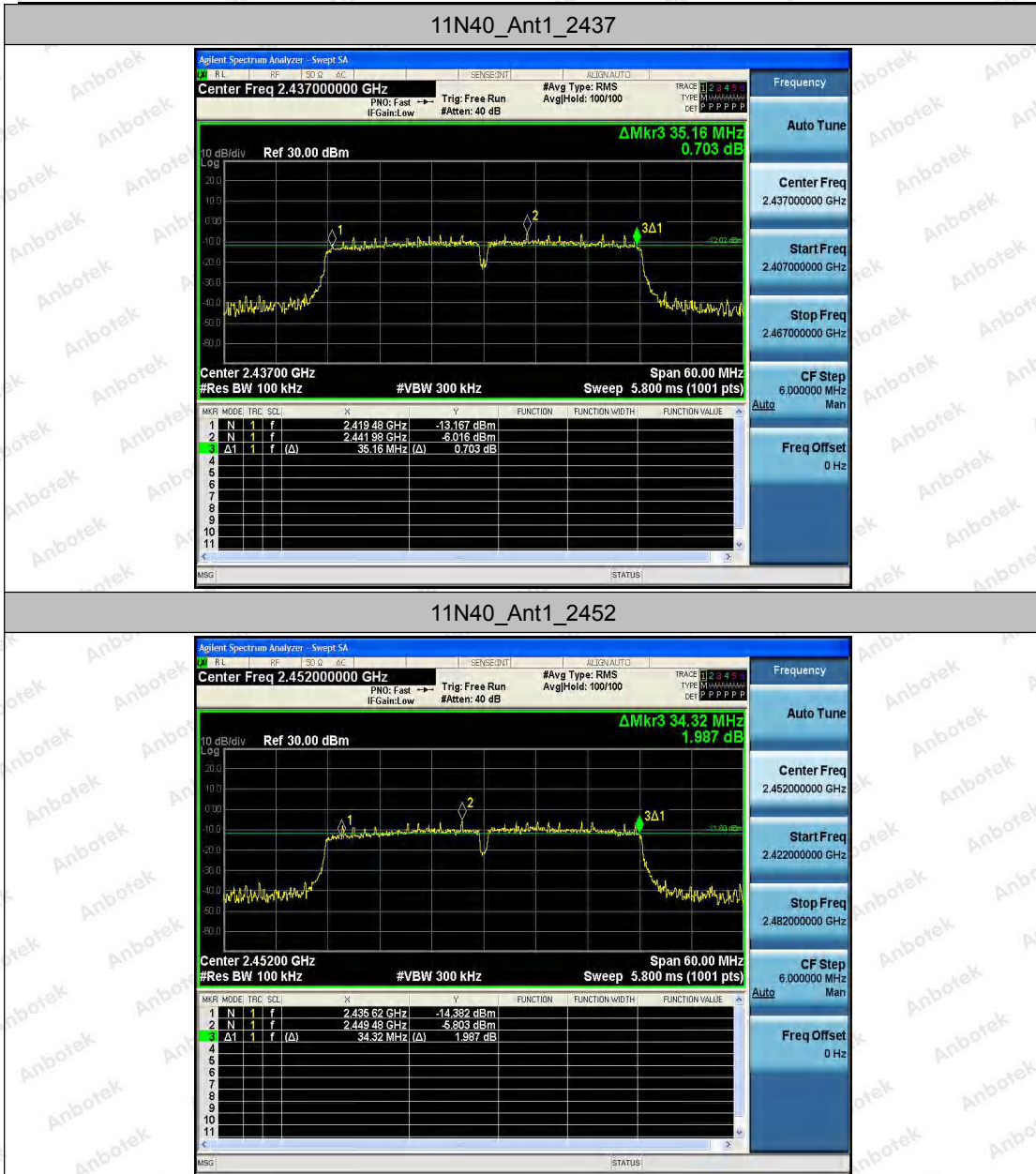
11N40_Ant1_2422



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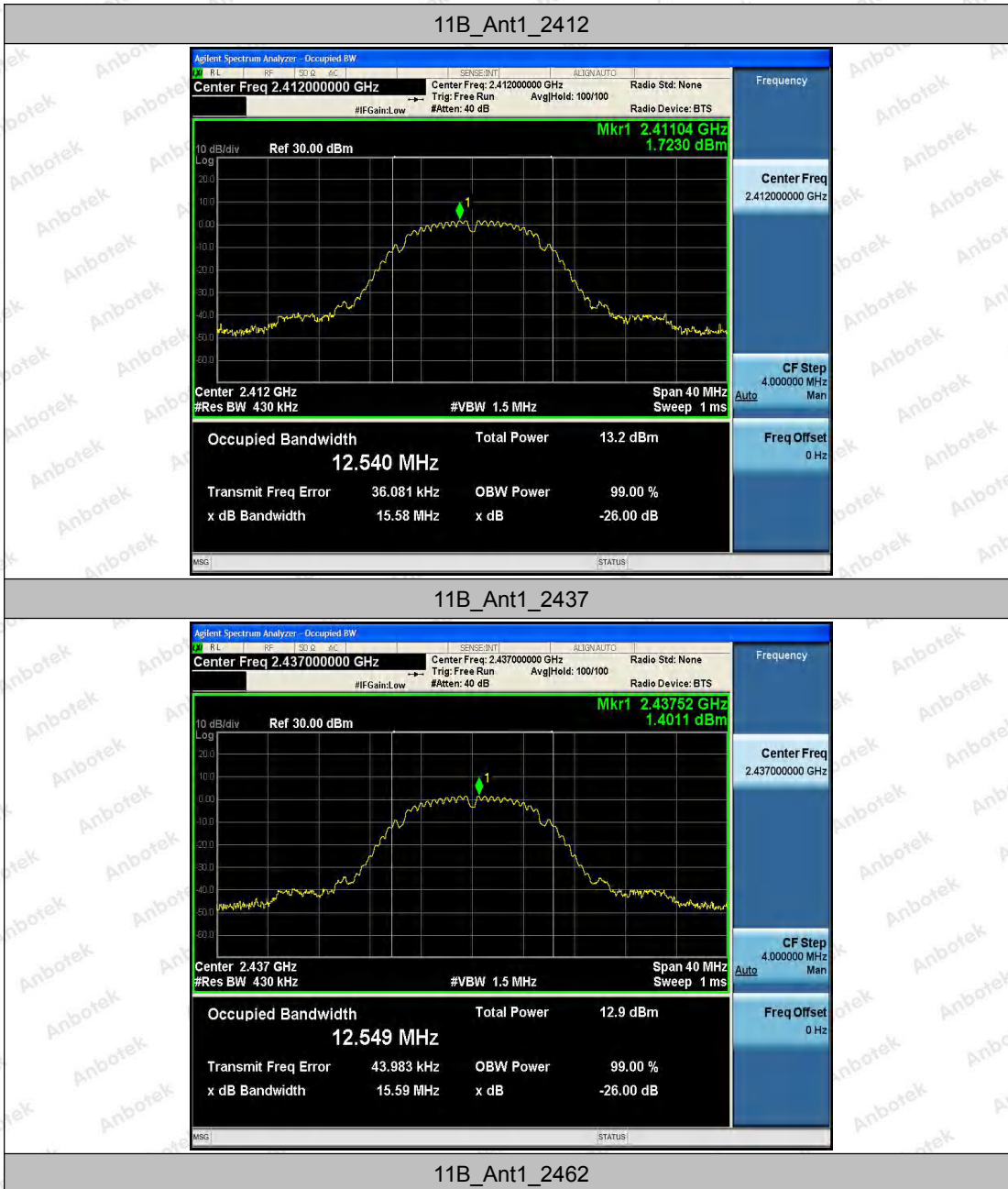
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Appendix B: Occupied Channel Bandwidth

Test Result

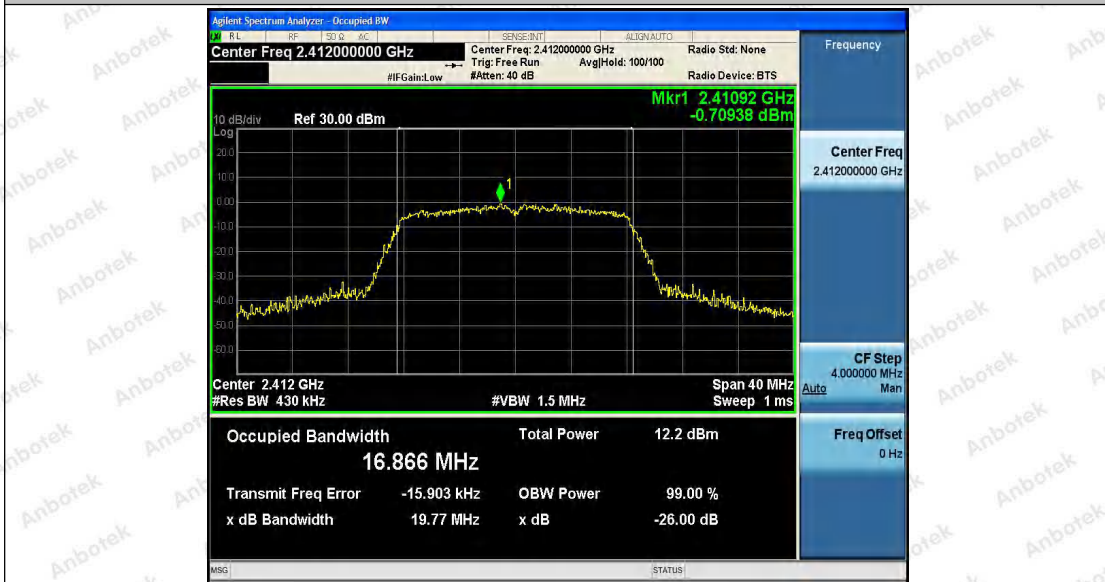
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.540	2405.766	2418.306	---	PASS
		2437	12.549	2430.769	2443.318	---	PASS
		2462	12.556	2455.796	2468.352	---	PASS
11G	Ant1	2412	16.866	2403.551	2420.417	---	PASS
		2437	16.886	2428.567	2445.453	---	PASS
		2462	16.865	2453.624	2470.489	---	PASS
11N20	Ant1	2412	17.729	2403.145	2420.874	---	PASS
		2437	17.768	2428.115	2445.883	---	PASS
		2462	17.749	2453.166	2470.915	---	PASS
11N40	Ant1	2422	35.963	2404.053	2440.016	---	PASS
		2437	35.997	2419.075	2455.072	---	PASS
		2452	35.960	2434.115	2470.075	---	PASS

Test Graphs

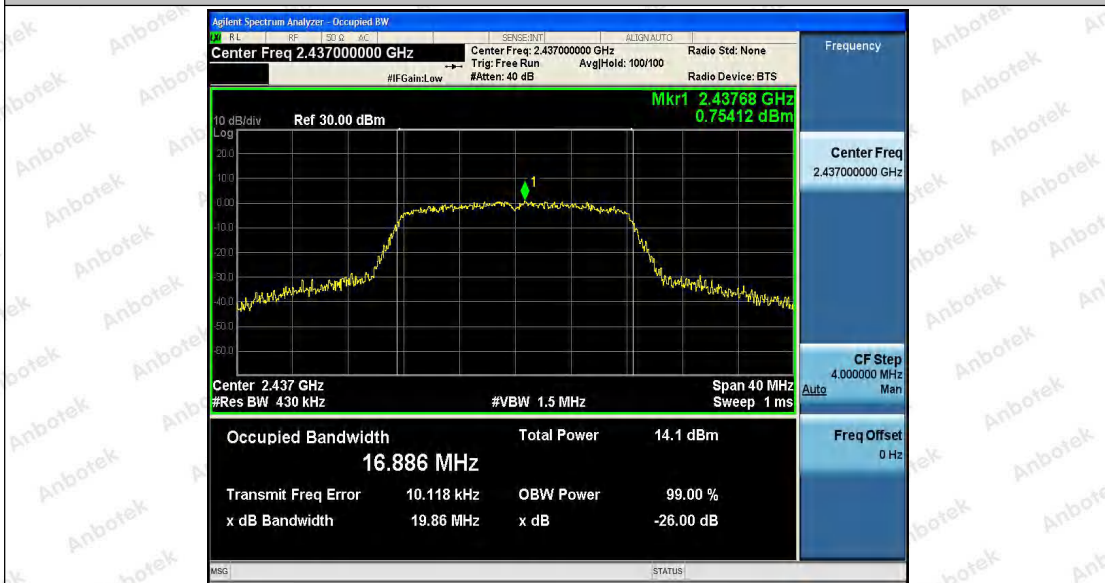




11G_Ant1_2412



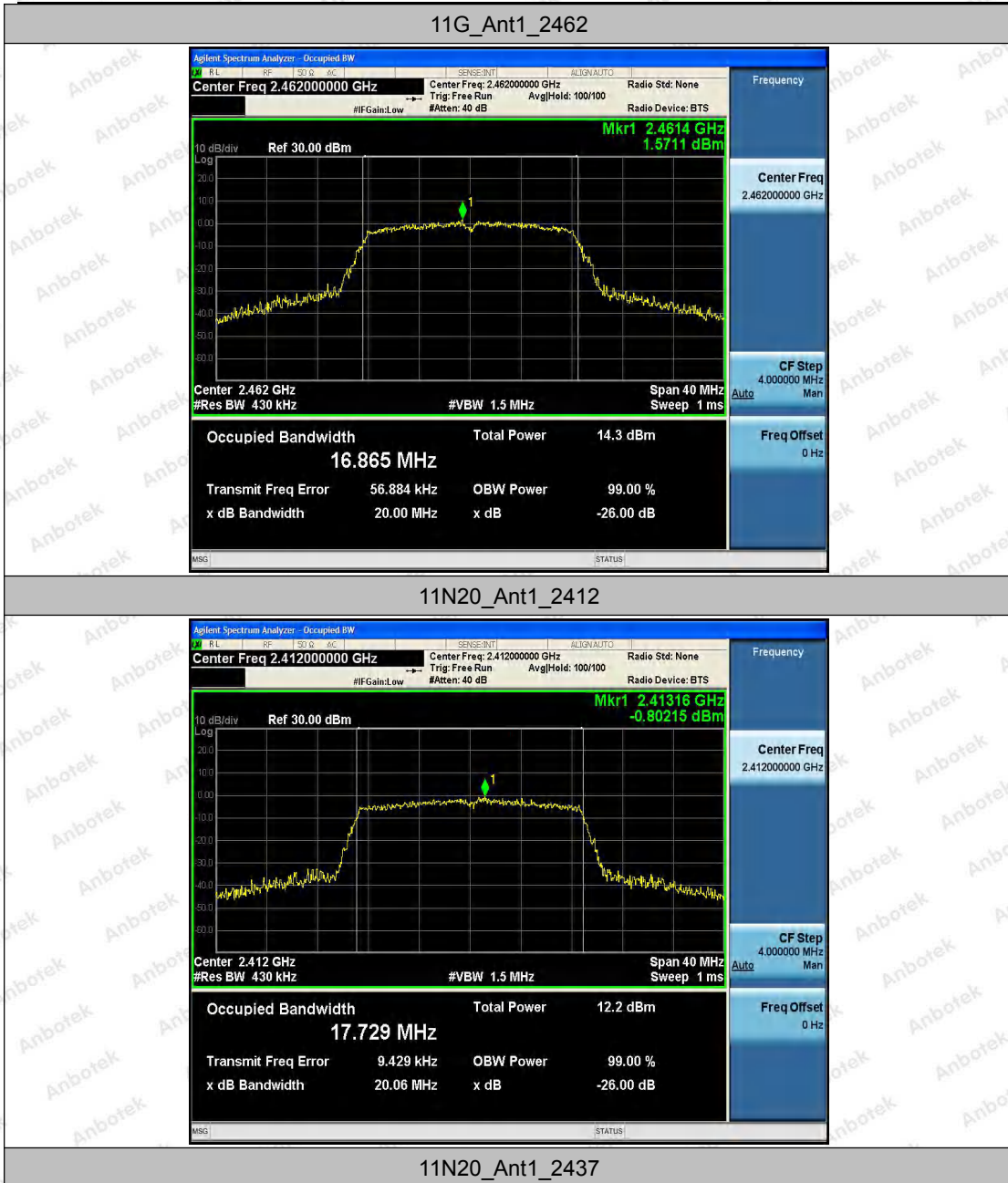
11G_Ant1_2437



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11N20_Ant1_2462



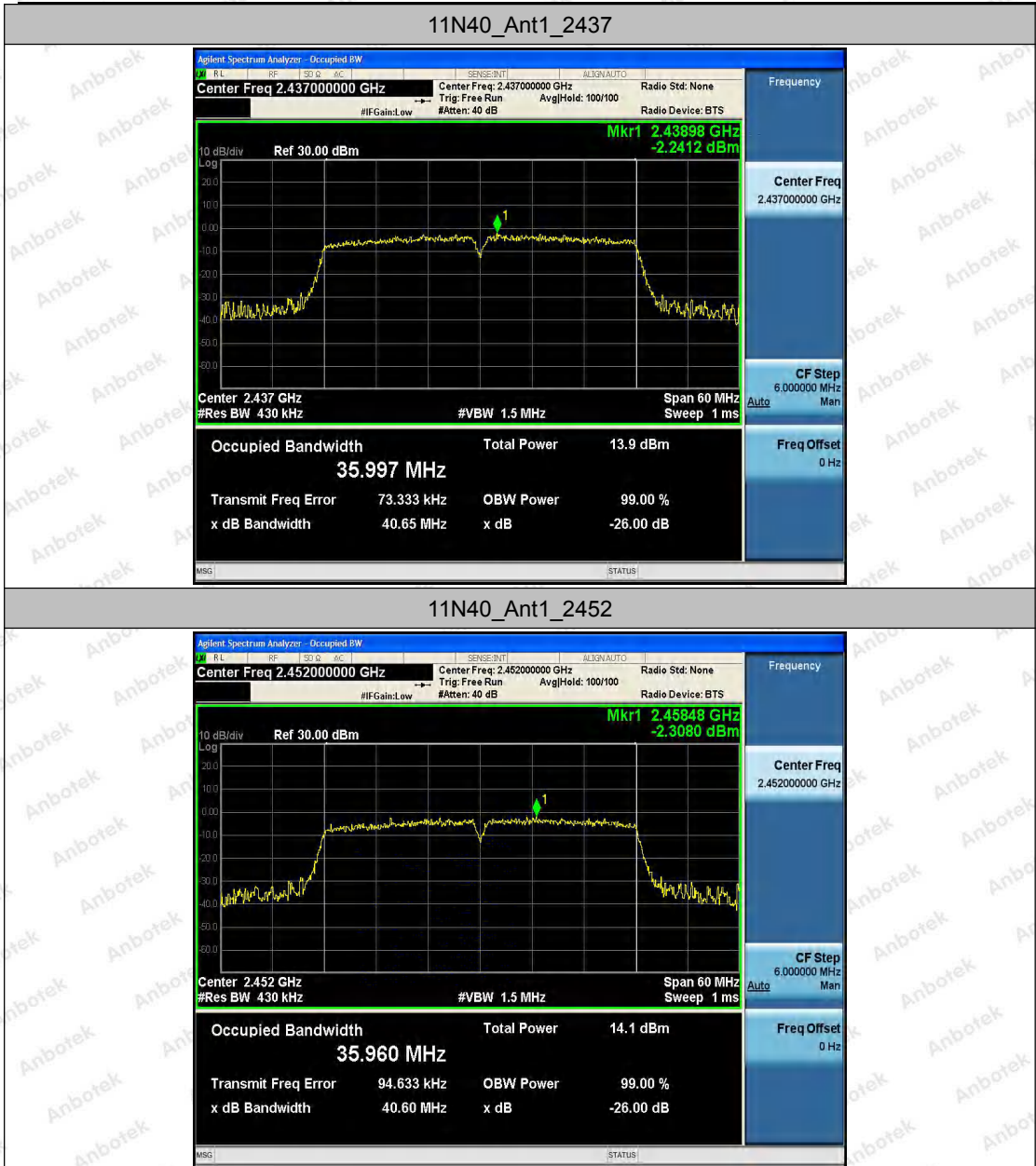
11N40_Ant1_2422



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Appendix C: Maximum conducted output power

Test Result

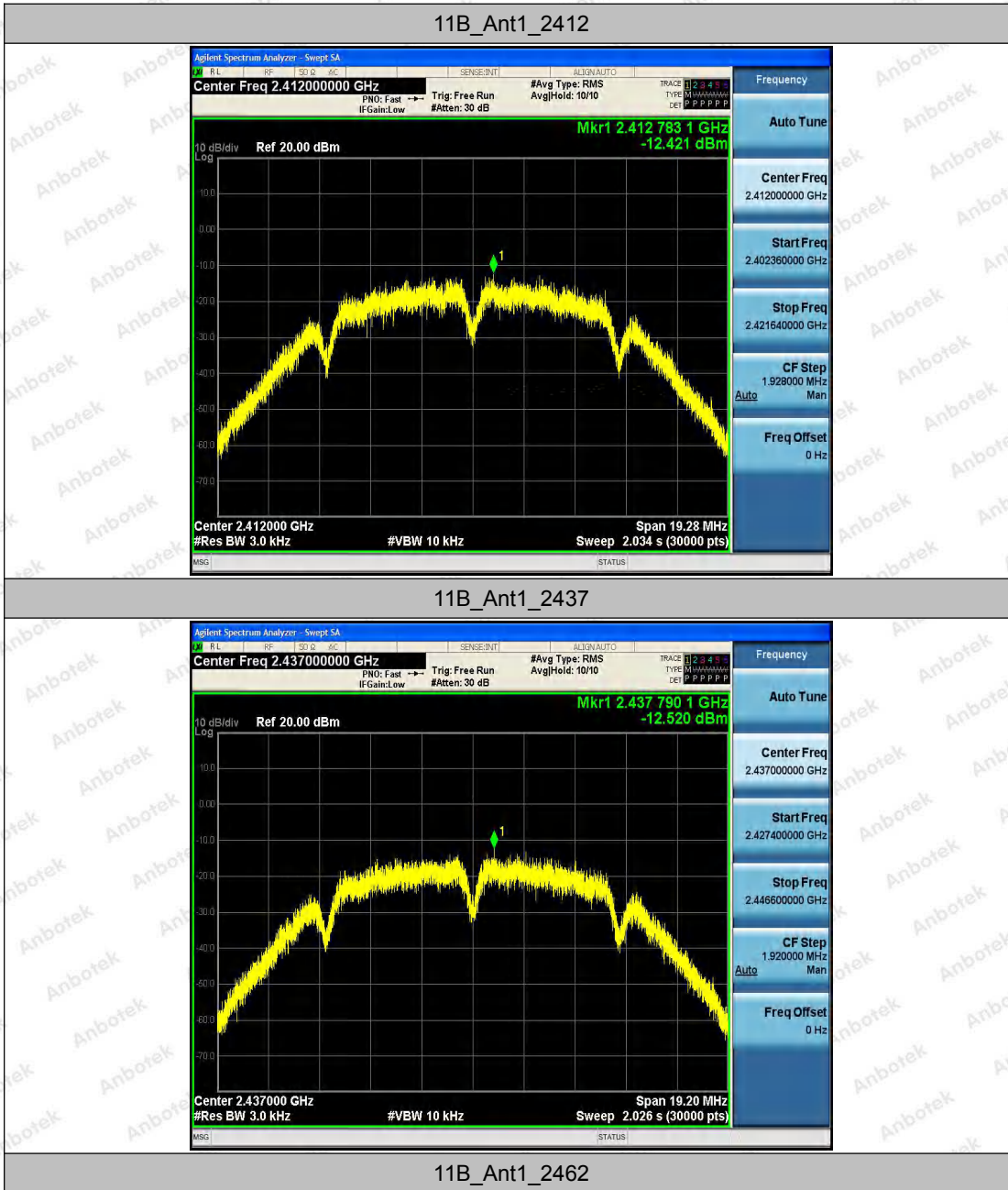
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.22	≤30	PASS
		2437	12.91	≤30	PASS
		2462	13.12	≤30	PASS
11G	Ant1	2412	13.35	≤30	PASS
		2437	15.12	≤30	PASS
		2462	15.41	≤30	PASS
11N20	Ant1	2412	13.28	≤30	PASS
		2437	15.08	≤30	PASS
		2462	15.31	≤30	PASS
11N40	Ant1	2422	12.87	≤30	PASS
		2437	12.99	≤30	PASS
		2452	13.12	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.42	≤8	PASS
		2437	-12.52	≤8	PASS
		2462	-12.54	≤8	PASS
11G	Ant1	2412	-17.65	≤8	PASS
		2437	-15.79	≤8	PASS
		2462	-15.21	≤8	PASS
11N20	Ant1	2412	-18.26	≤8	PASS
		2437	-15.93	≤8	PASS
		2462	-16.18	≤8	PASS
11N40	Ant1	2422	-20.63	≤8	PASS
		2437	-19.42	≤8	PASS
		2452	-19.43	≤8	PASS

Test Graphs



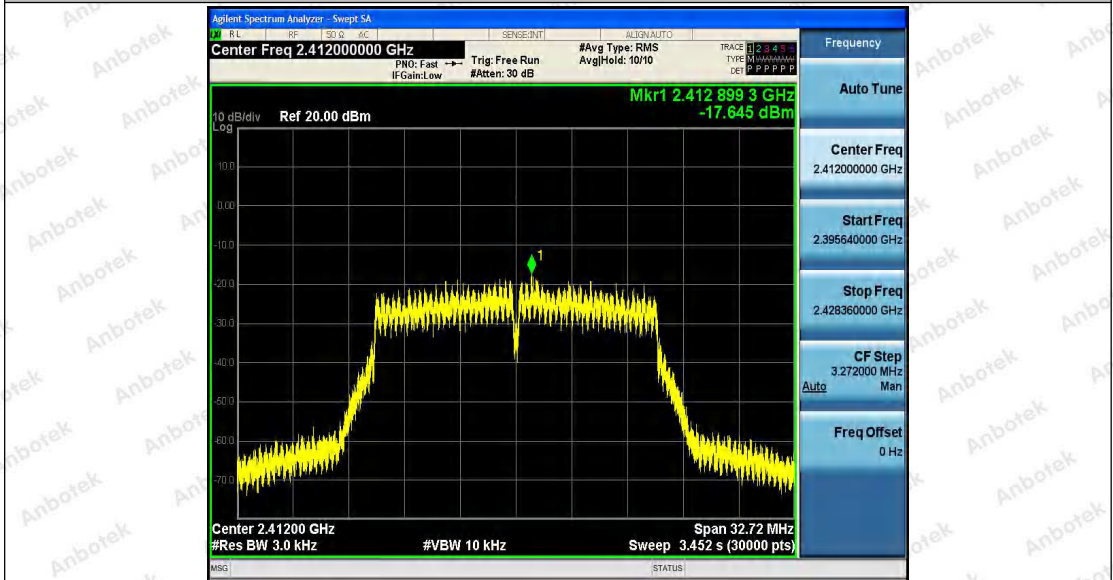
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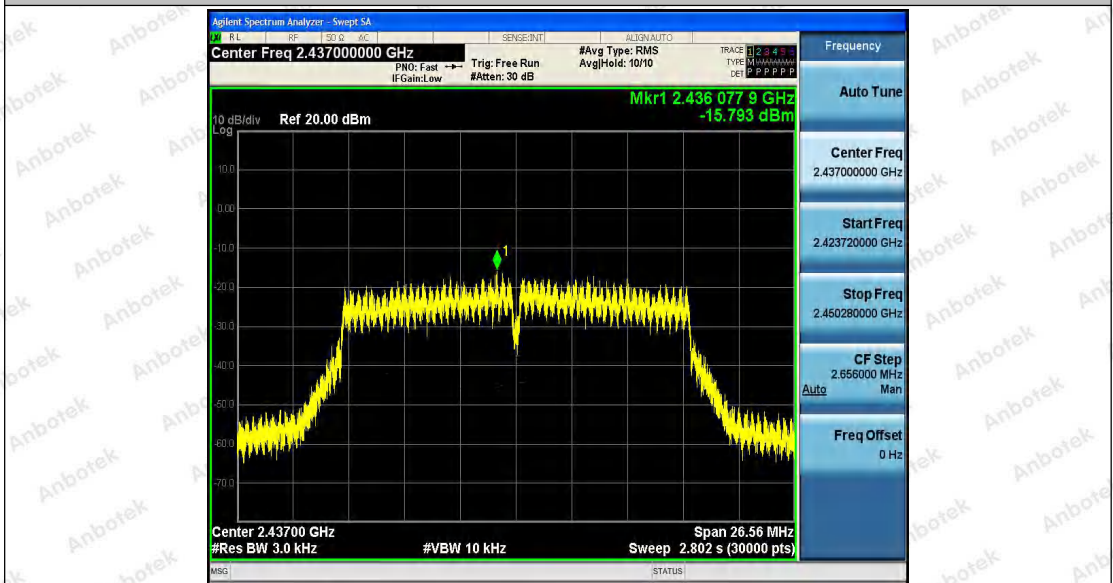
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11G_Ant1_2412



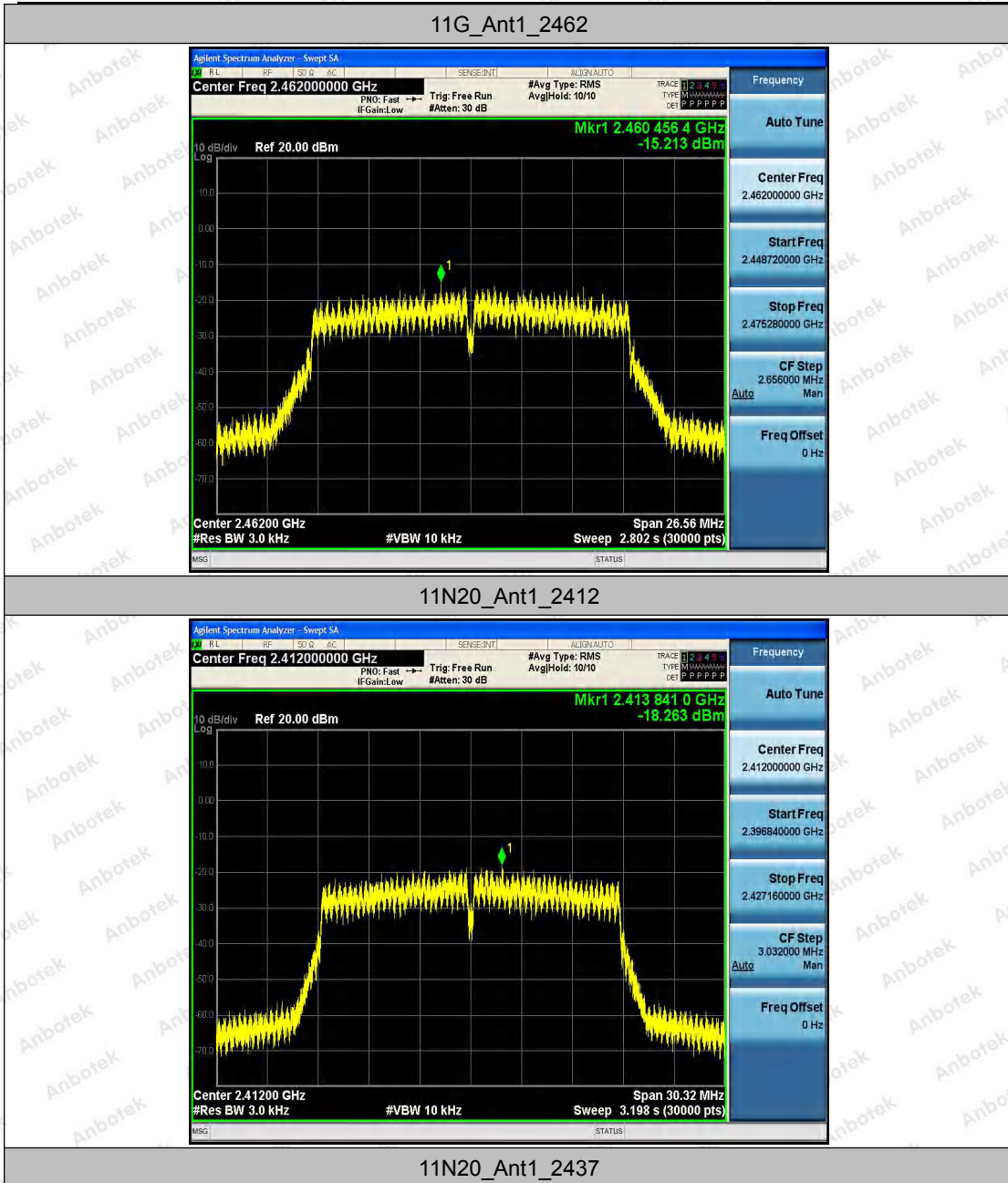
11G_Ant1_2437



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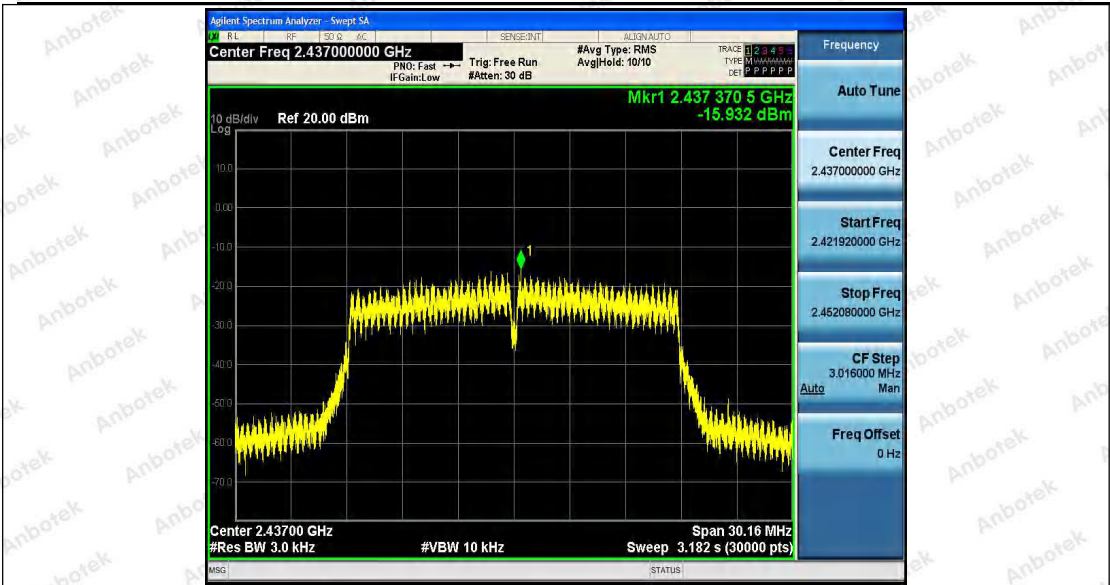
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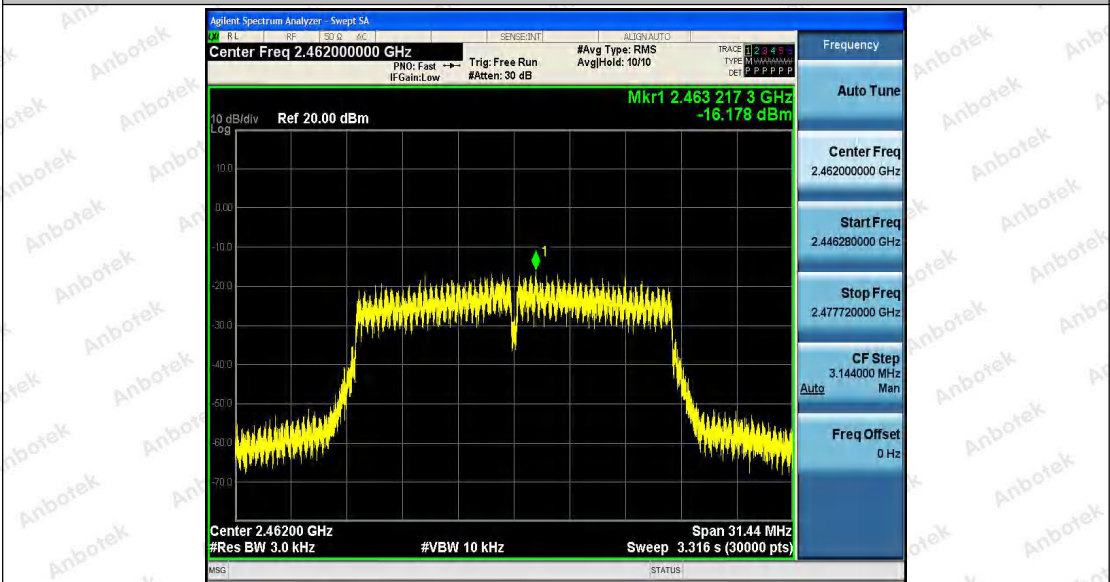
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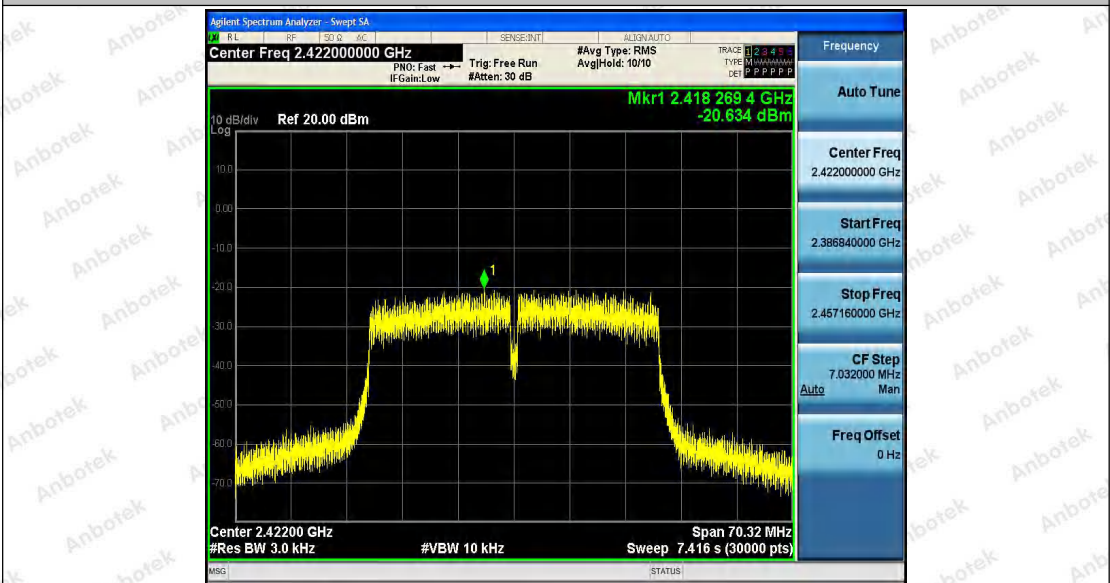
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11N20_Ant1_2462



11N40_Ant1_2422

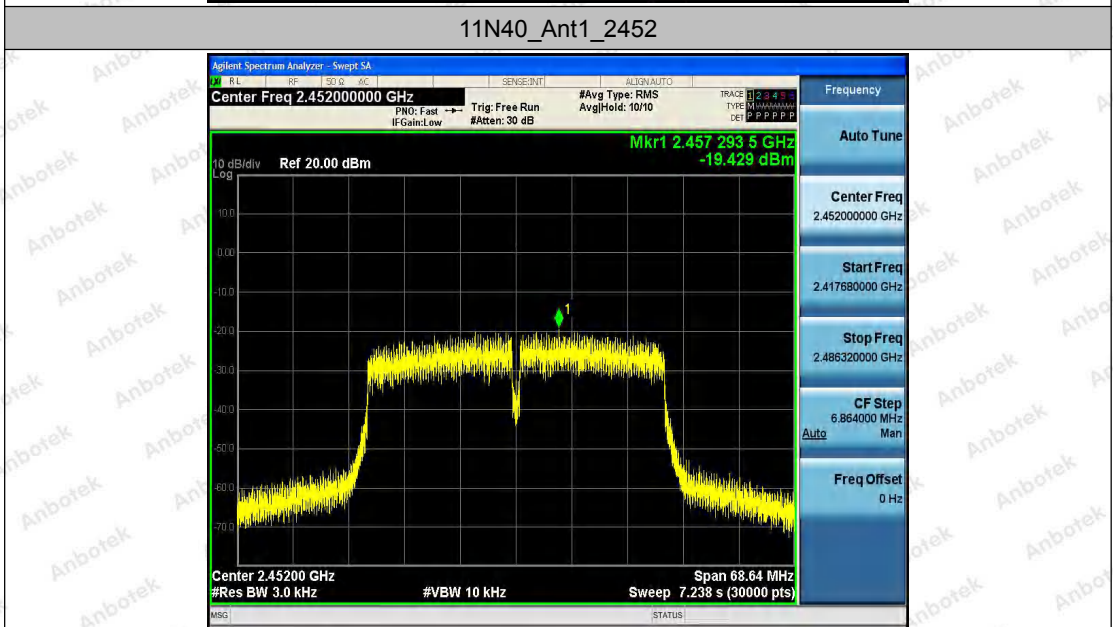
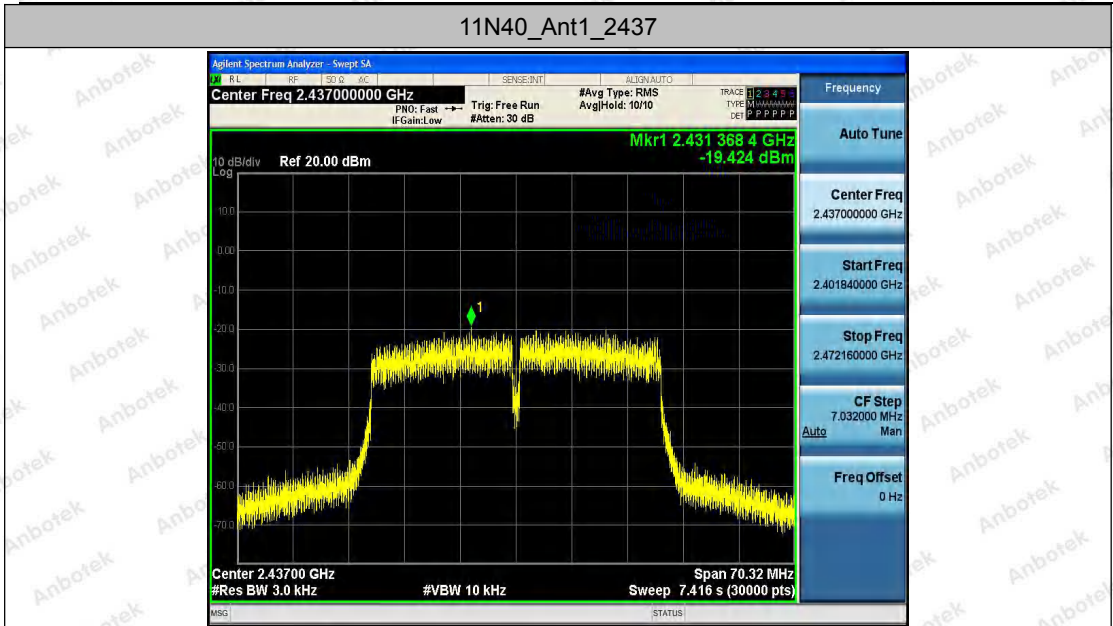


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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.56	-43.51	≤-19.44	PASS
		High	2462	1.08	-57.49	≤-18.93	PASS
11G	Ant1	Low	2412	-4.59	-43.08	≤-24.59	PASS
		High	2462	-2.68	-51.94	≤-22.68	PASS
11N20	Ant1	Low	2412	-5.03	-41.9	≤-25.03	PASS
		High	2462	-1.34	-49.72	≤-21.34	PASS
11N40	Ant1	Low	2422	-5.86	-37.18	≤-25.86	PASS
		High	2452	-5.57	-38.41	≤-25.57	PASS

Test Graphs



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11G_Ant1_High_2462



11N20_Ant1_Low_2412



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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



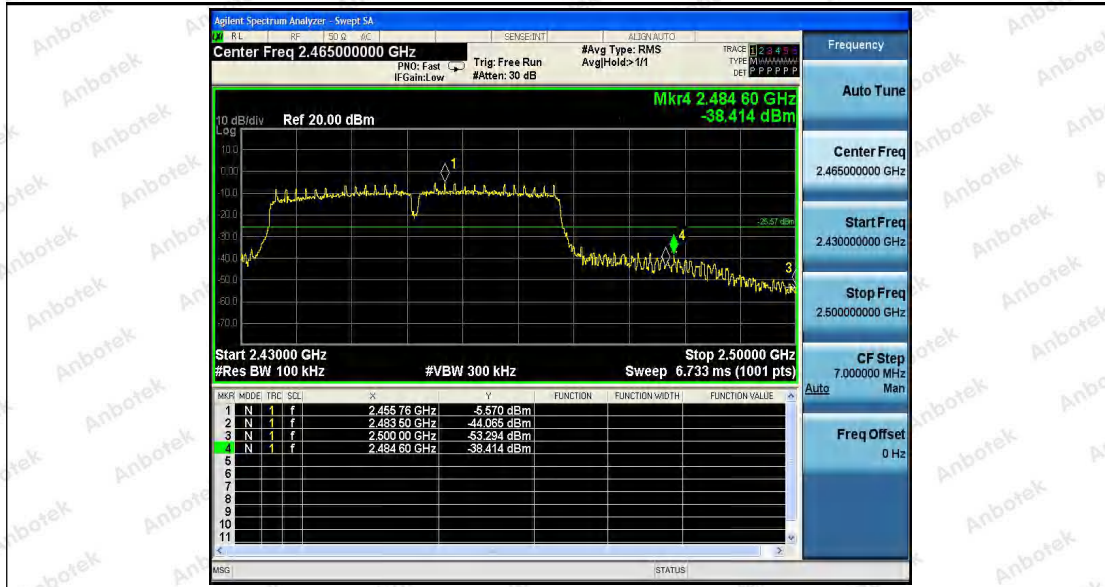
11N40_Ant1_High_2452

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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	1.09	1.09	---	PASS
			30~1000	1.09	-69.45	≤-18.91	PASS
			1000~26500	1.09	-51.94	≤-18.91	PASS
		2437	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-70.03	≤-19.68	PASS
			1000~26500	0.32	-54.56	≤-19.68	PASS
		2462	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-70.35	≤-19.45	PASS
			1000~26500	0.55	-55.75	≤-19.45	PASS
11G	Ant1	2412	Reference	-3.75	-3.75	---	PASS
			30~1000	-3.75	-70.53	≤-23.75	PASS
			1000~26500	-3.75	-55.12	≤-23.75	PASS
		2437	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-70.62	≤-22.34	PASS
			1000~26500	-2.34	-54.74	≤-22.34	PASS
		2462	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-69.56	≤-22.83	PASS
			1000~26500	-2.83	-52.66	≤-22.83	PASS
11N20	Ant1	2412	Reference	-3.75	-3.75	---	PASS
			30~1000	-3.75	-70.62	≤-23.75	PASS
			1000~26500	-3.75	-49.01	≤-23.75	PASS
		2437	Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-70.59	≤-22.98	PASS
			1000~26500	-2.98	-55.19	≤-22.98	PASS
		2462	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-69.68	≤-22.66	PASS
			1000~26500	-2.66	-55.7	≤-22.66	PASS
11N40	Ant1	2422	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-69.93	≤-25.78	PASS
			1000~26500	-5.78	-51.21	≤-25.78	PASS
		2437	Reference	-6.06	-6.06	---	PASS
			30~1000	-6.06	-70.49	≤-26.06	PASS
			1000~26500	-6.06	-54.89	≤-26.06	PASS
		2452	Reference	-5.48	-5.48	---	PASS
			30~1000	-5.48	-70.07	≤-25.48	PASS
			1000~26500	-5.48	-55.49	≤-25.48	PASS

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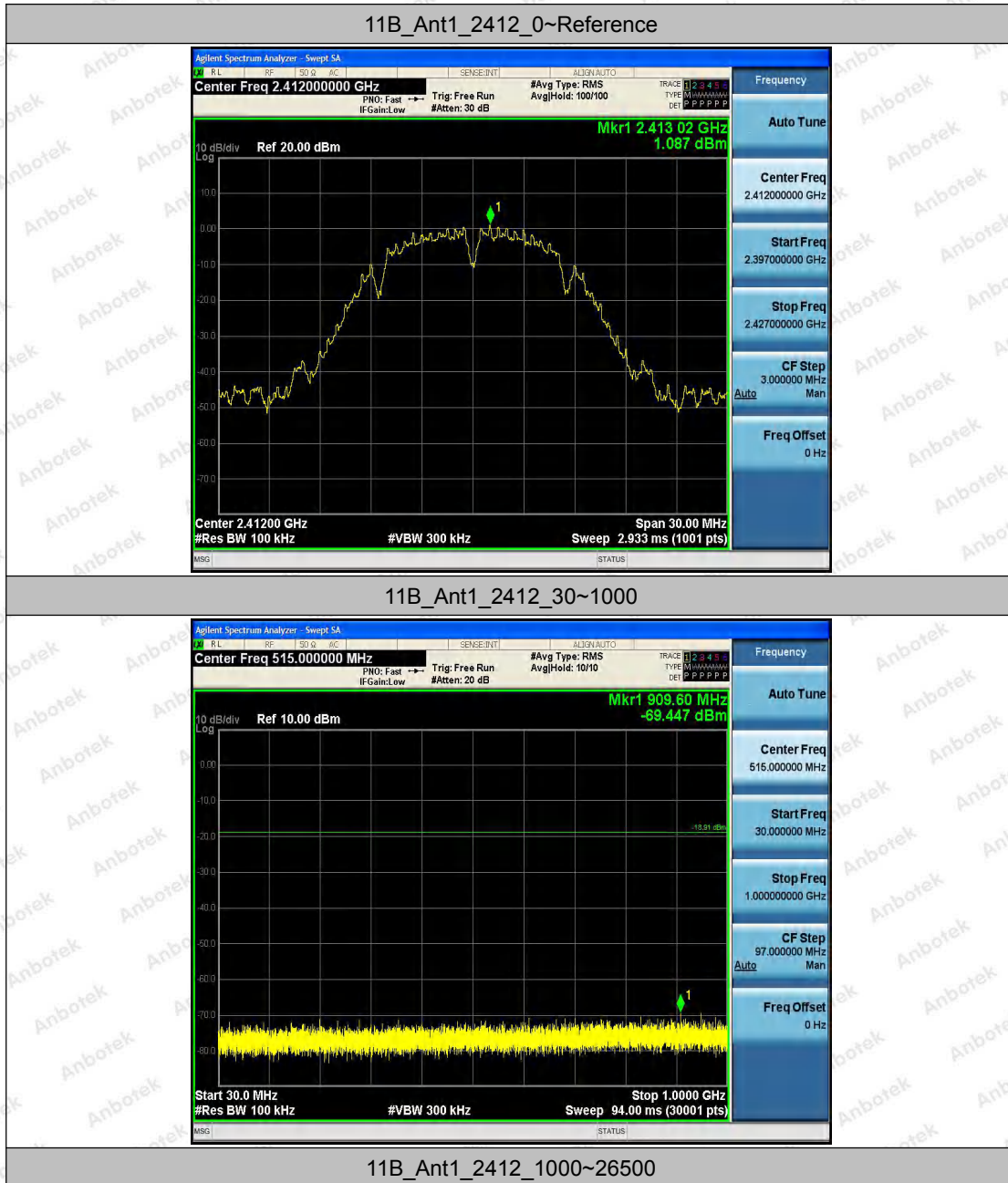


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Test Graphs

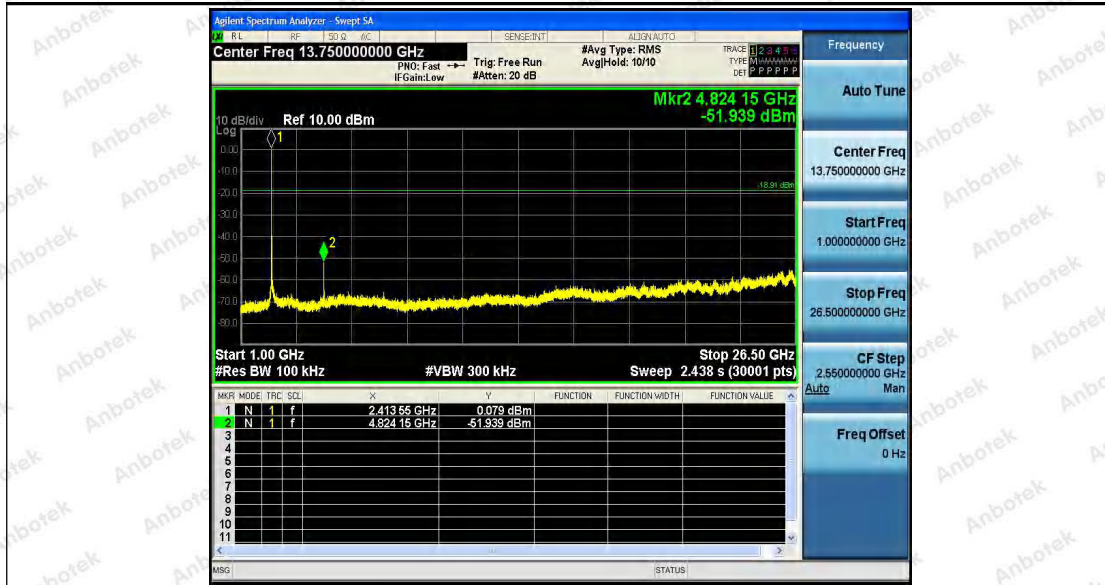


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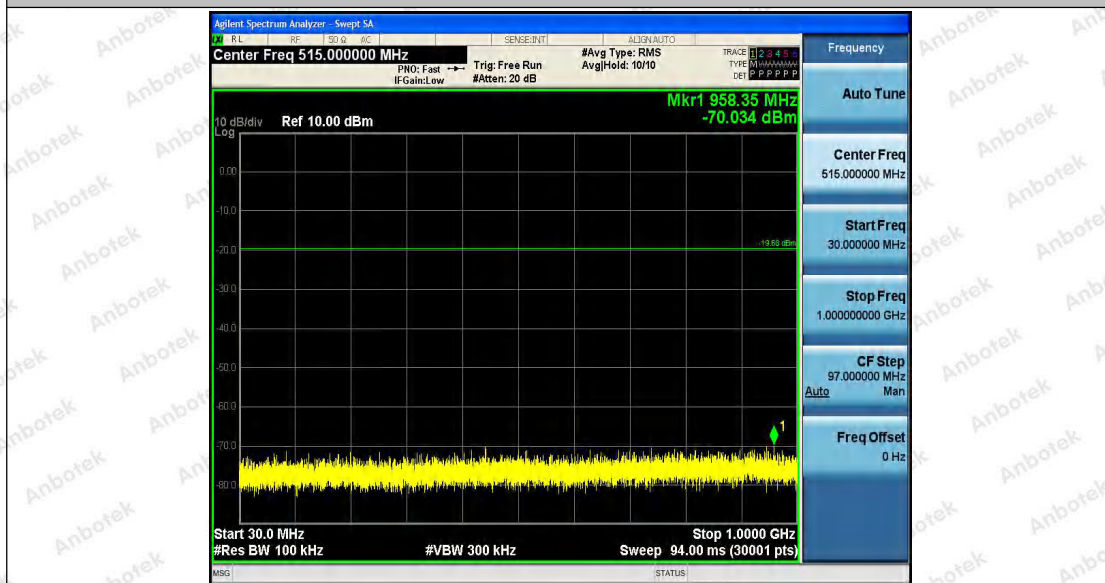
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

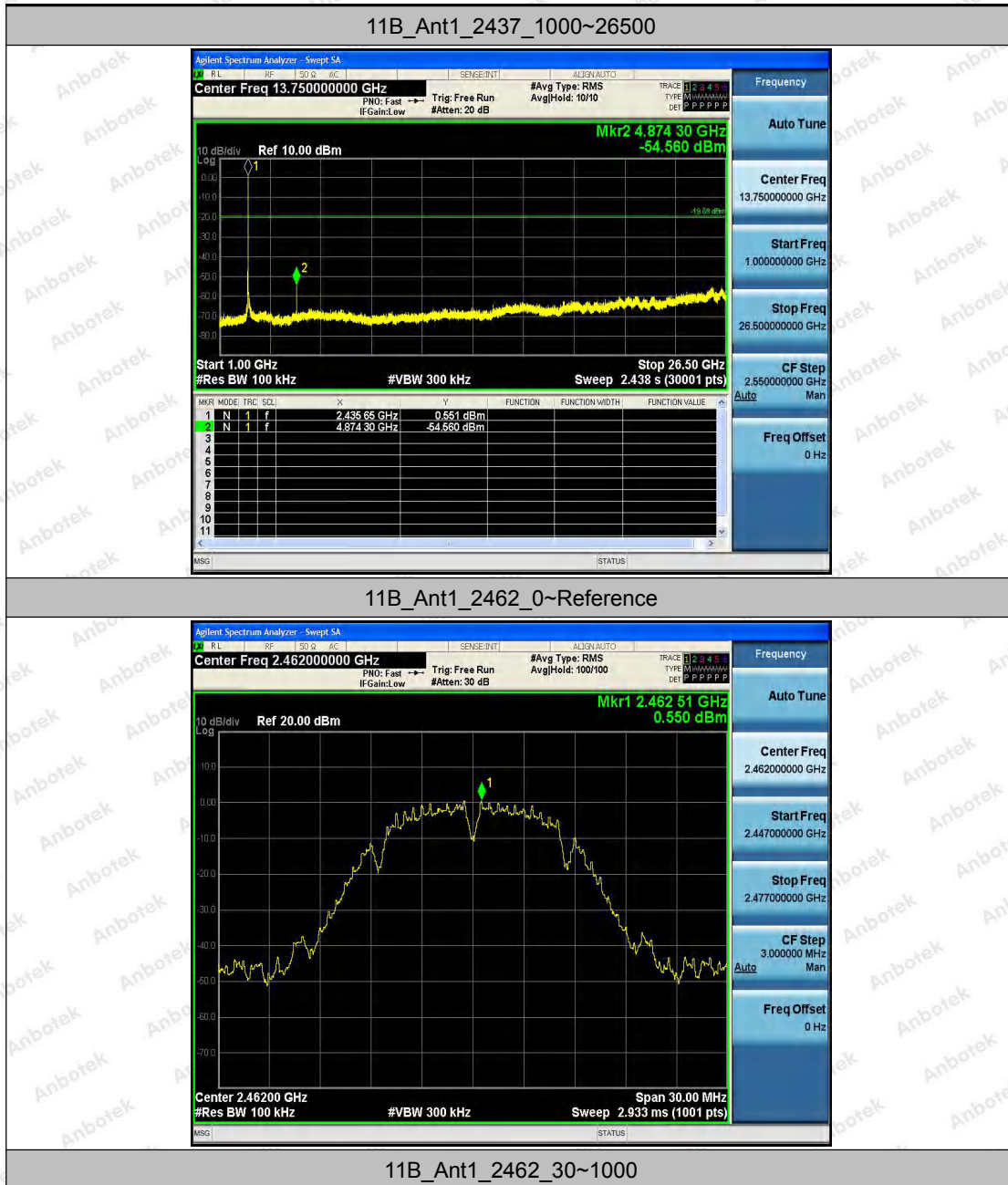


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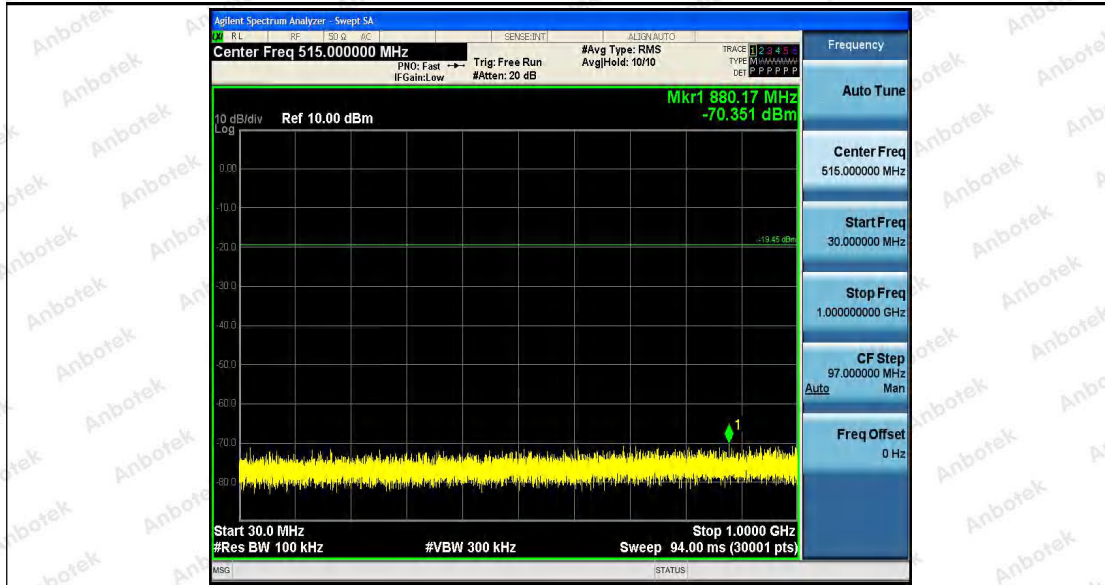


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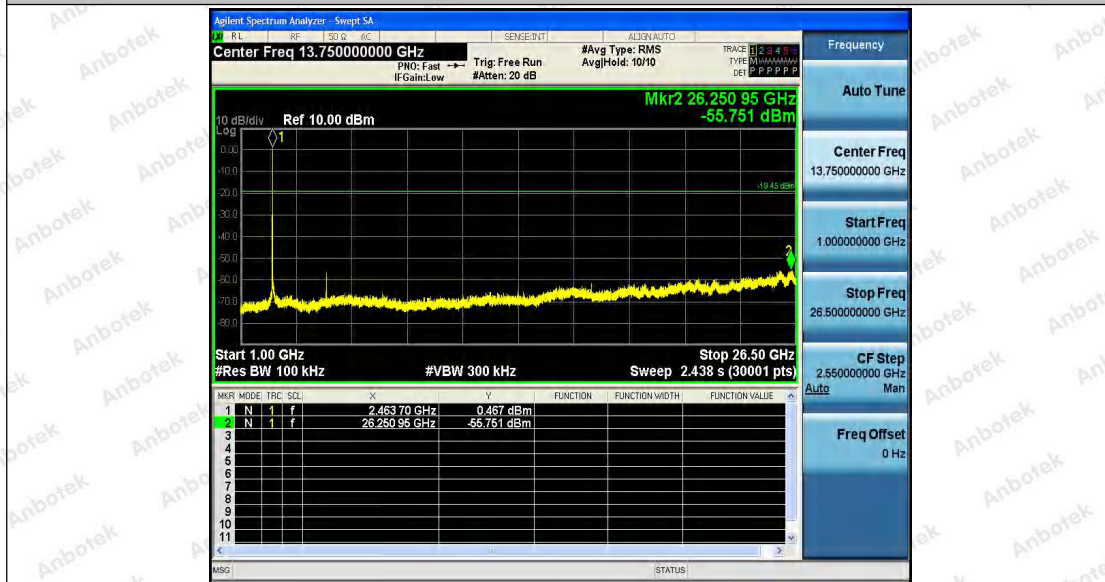
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

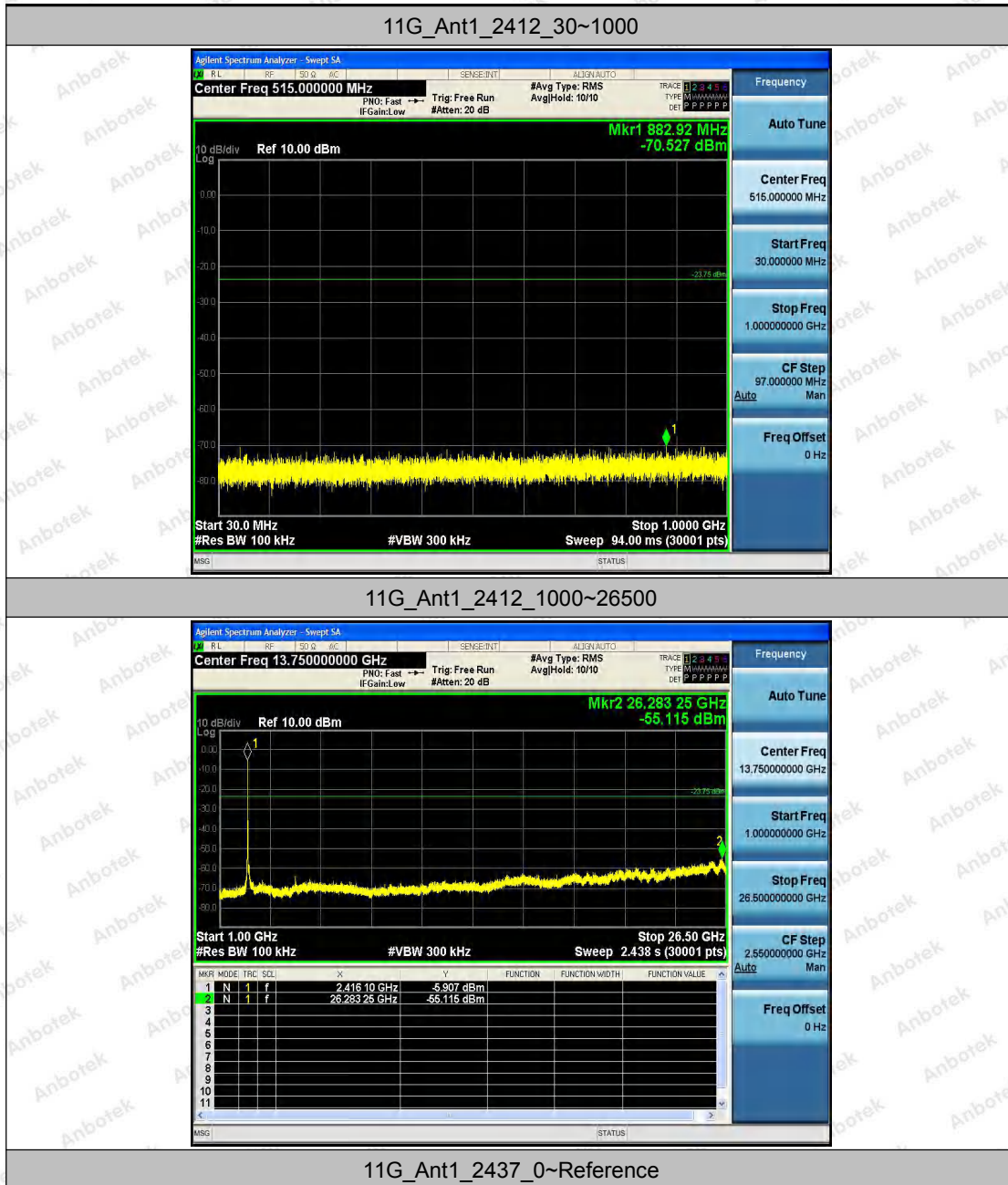


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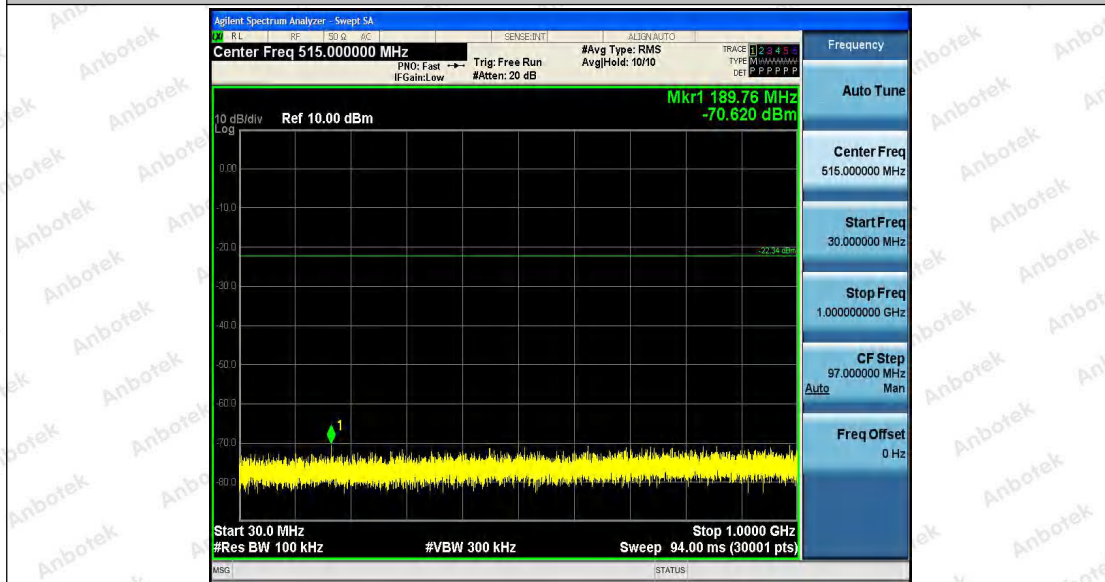
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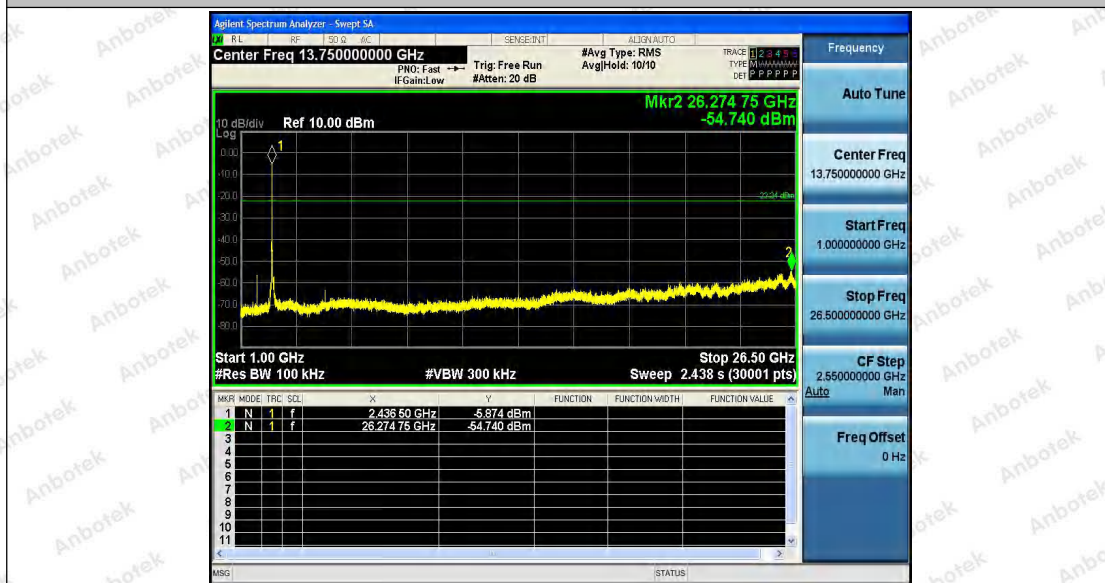
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

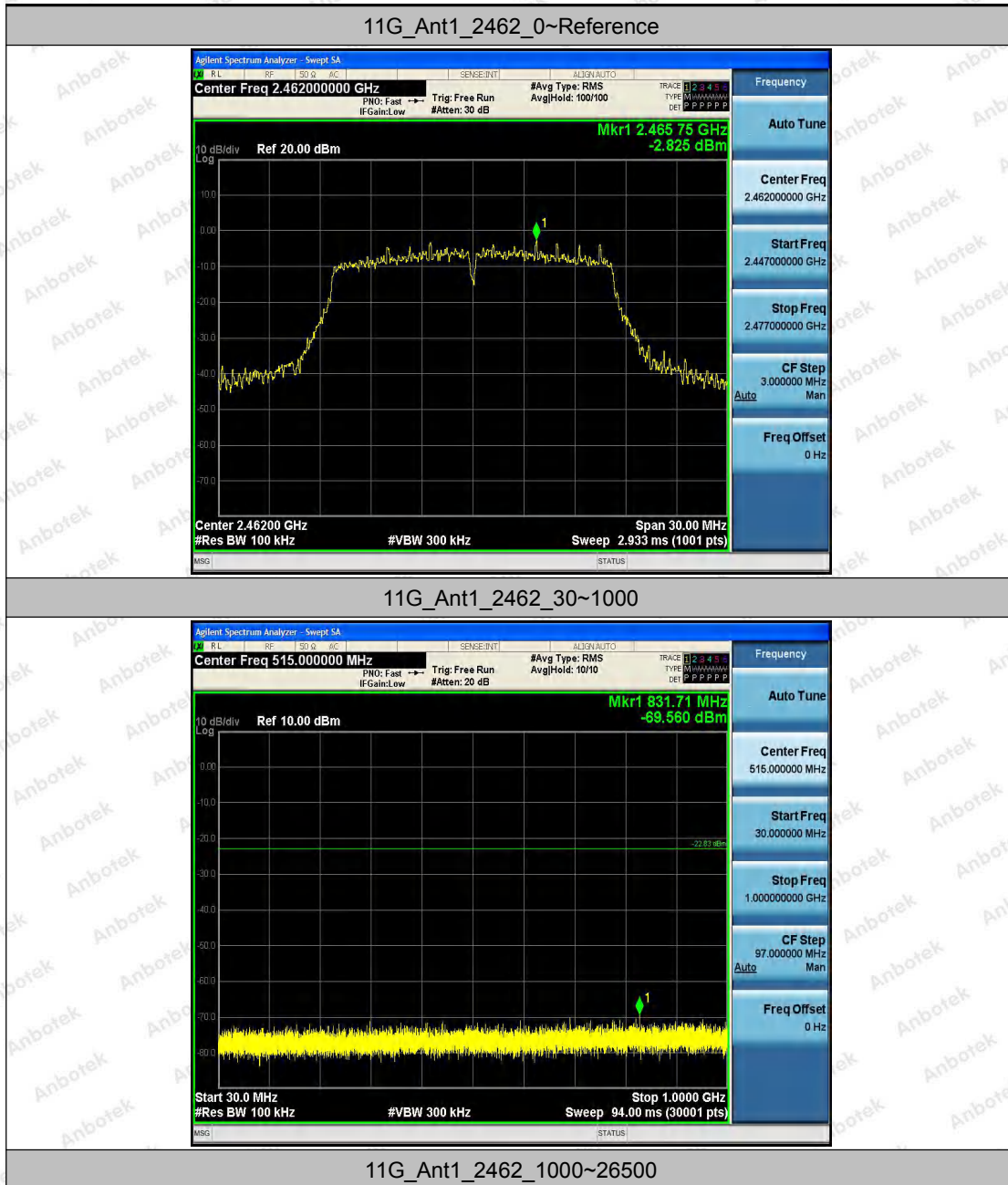


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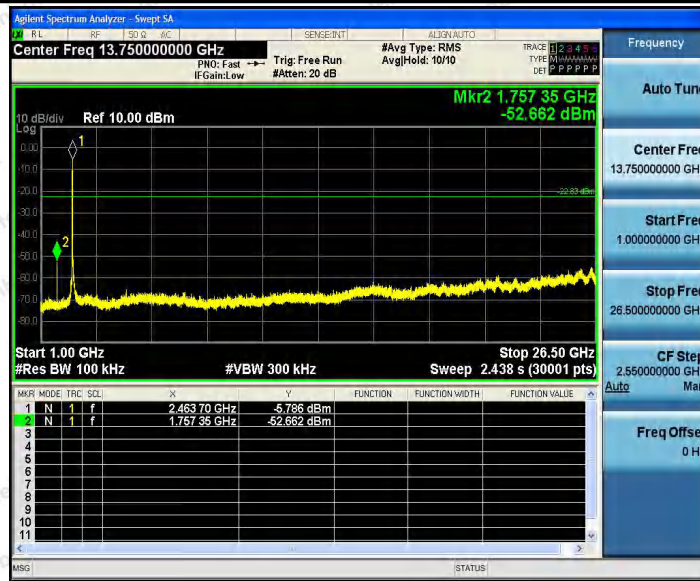
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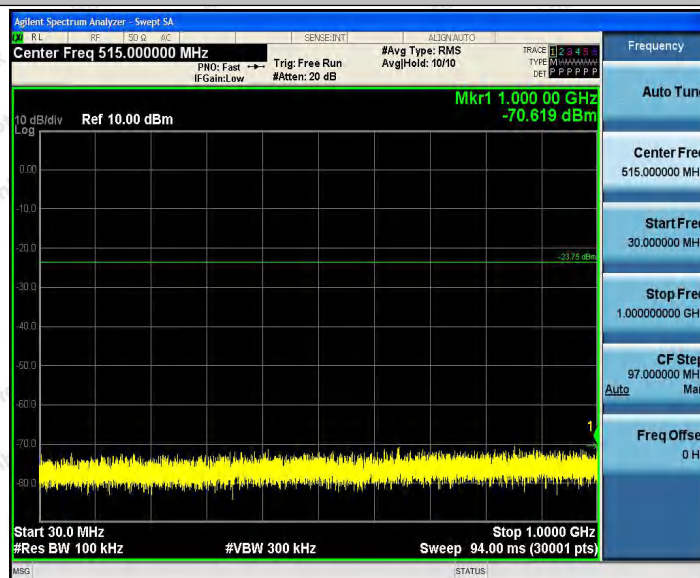
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11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000

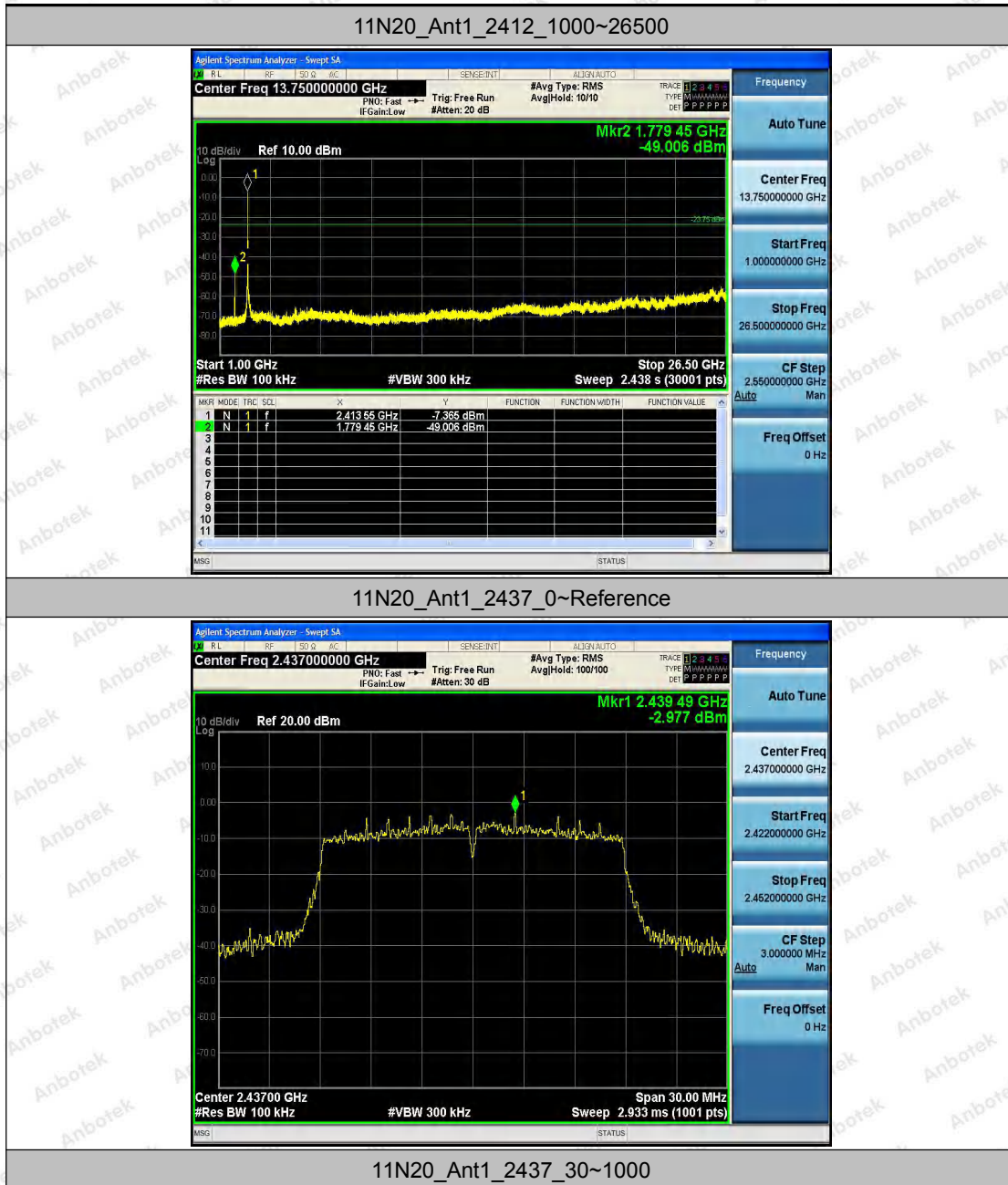


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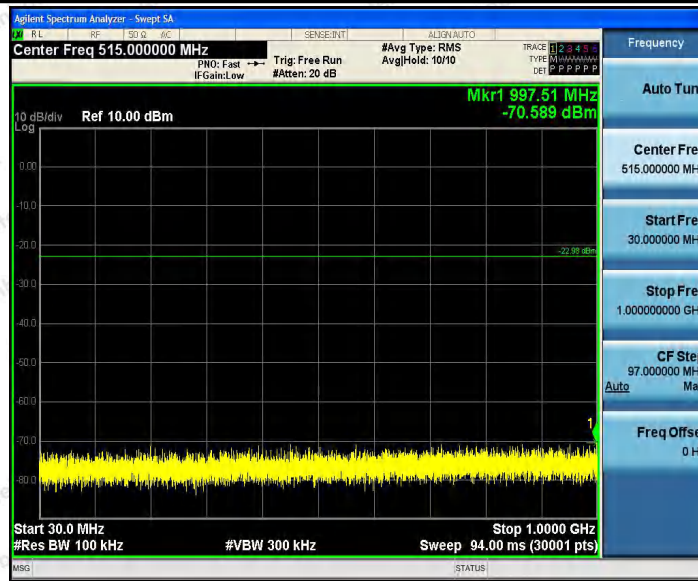
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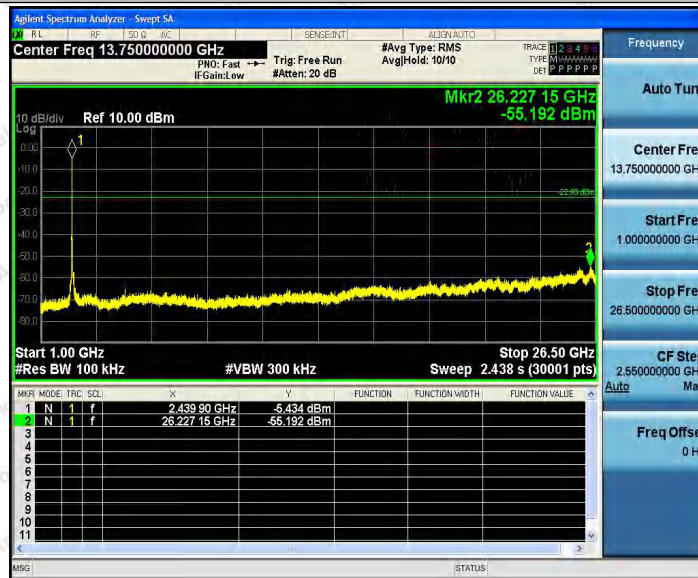
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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

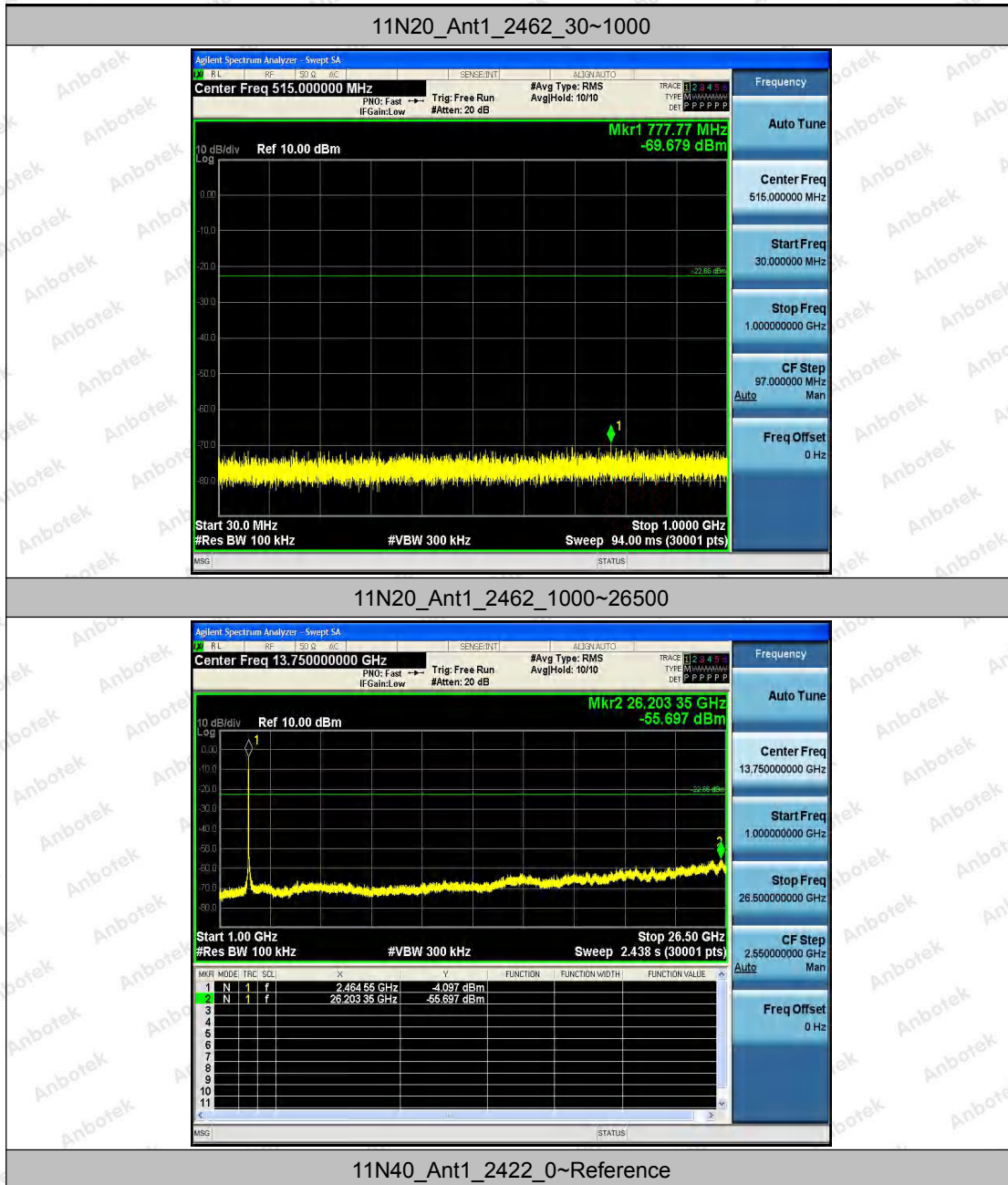


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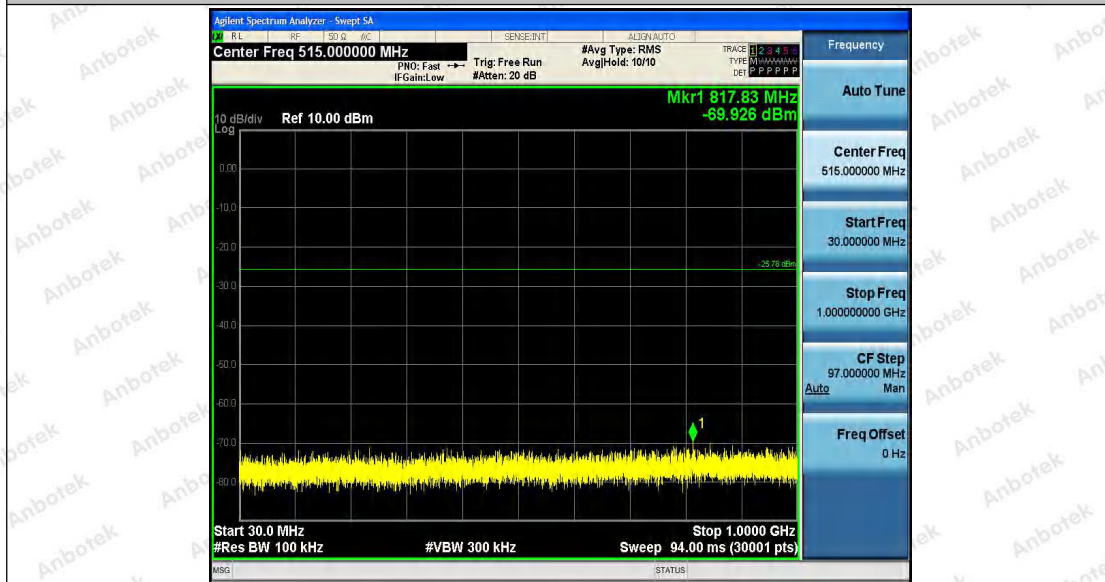
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

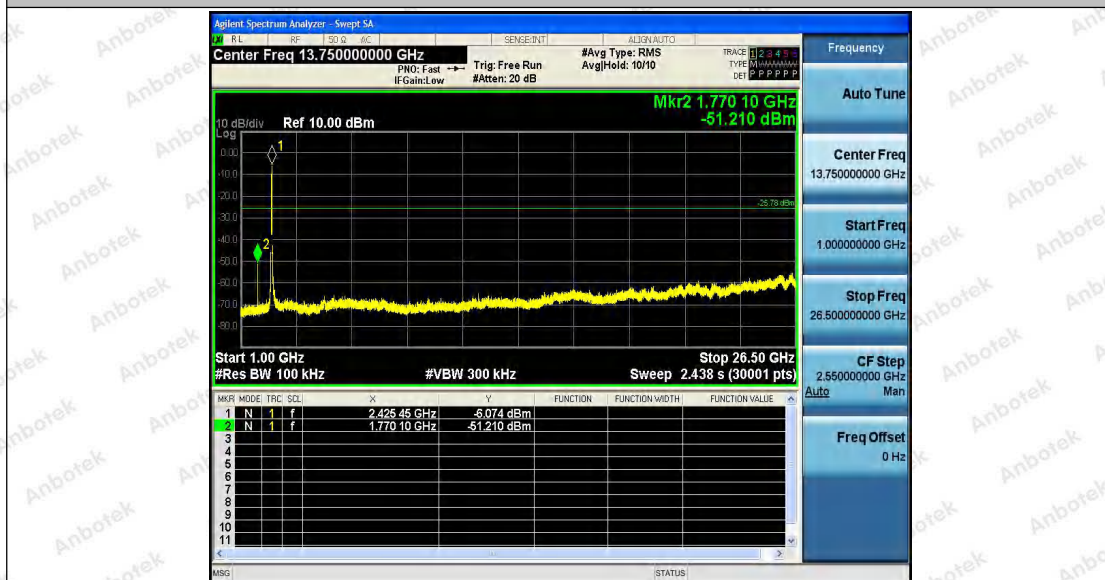
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11N40_Ant1_2422_30~1000



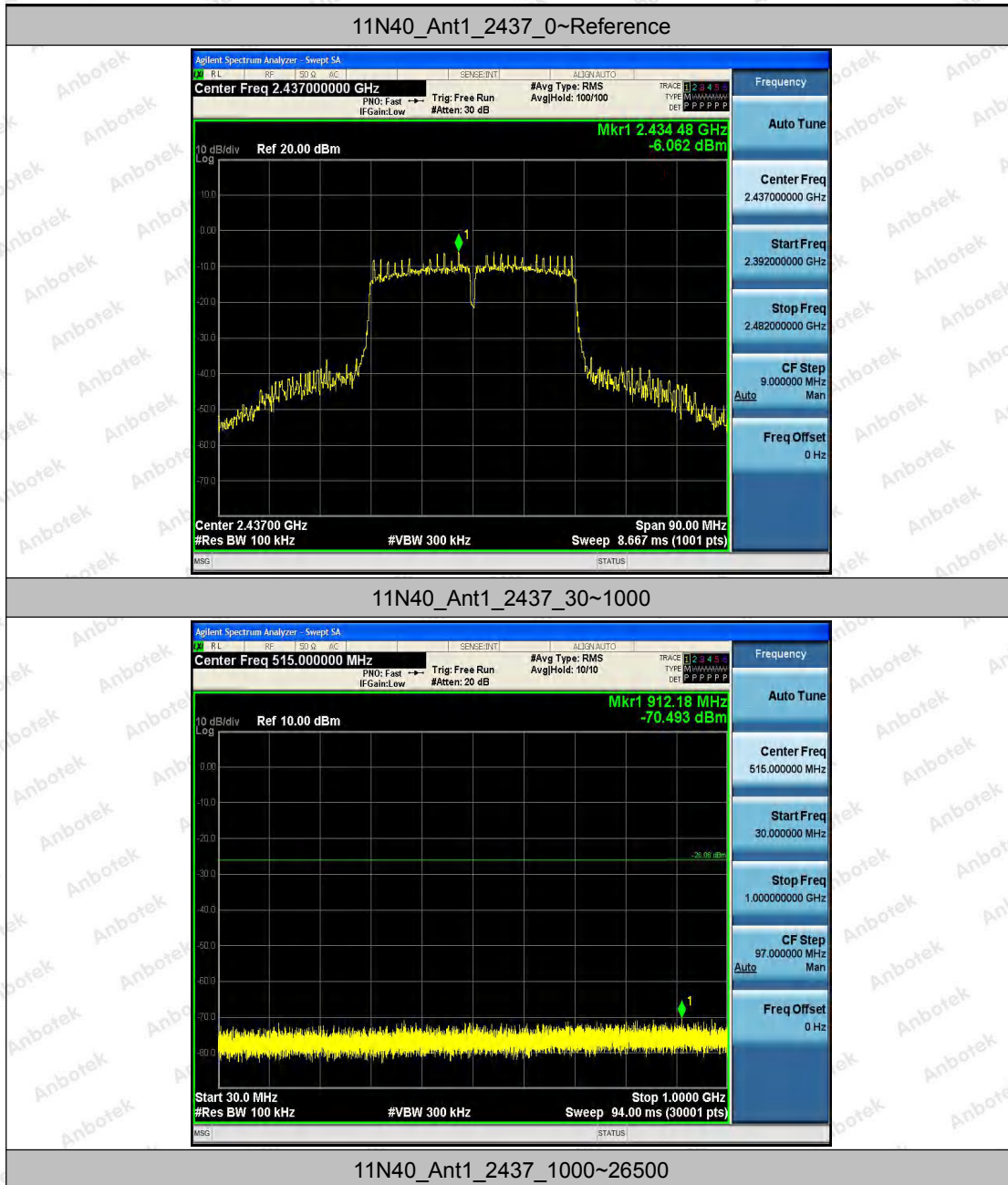
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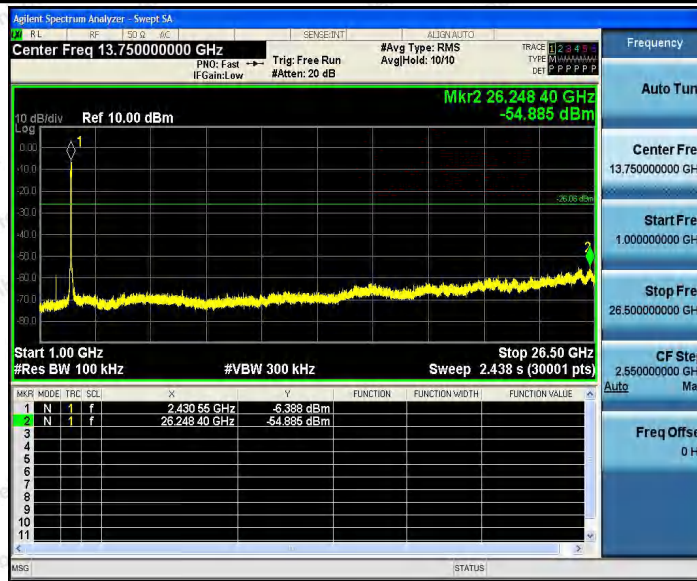
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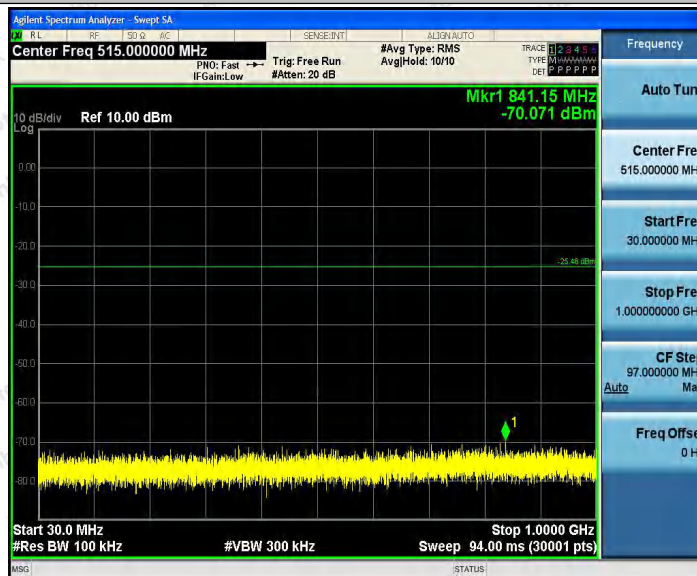
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11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000

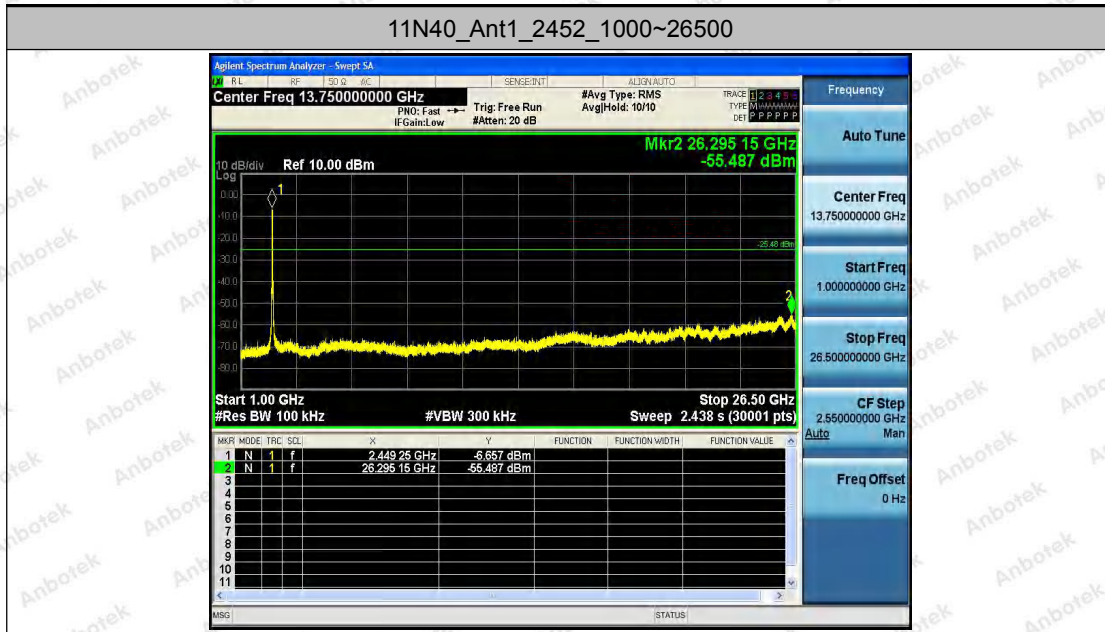


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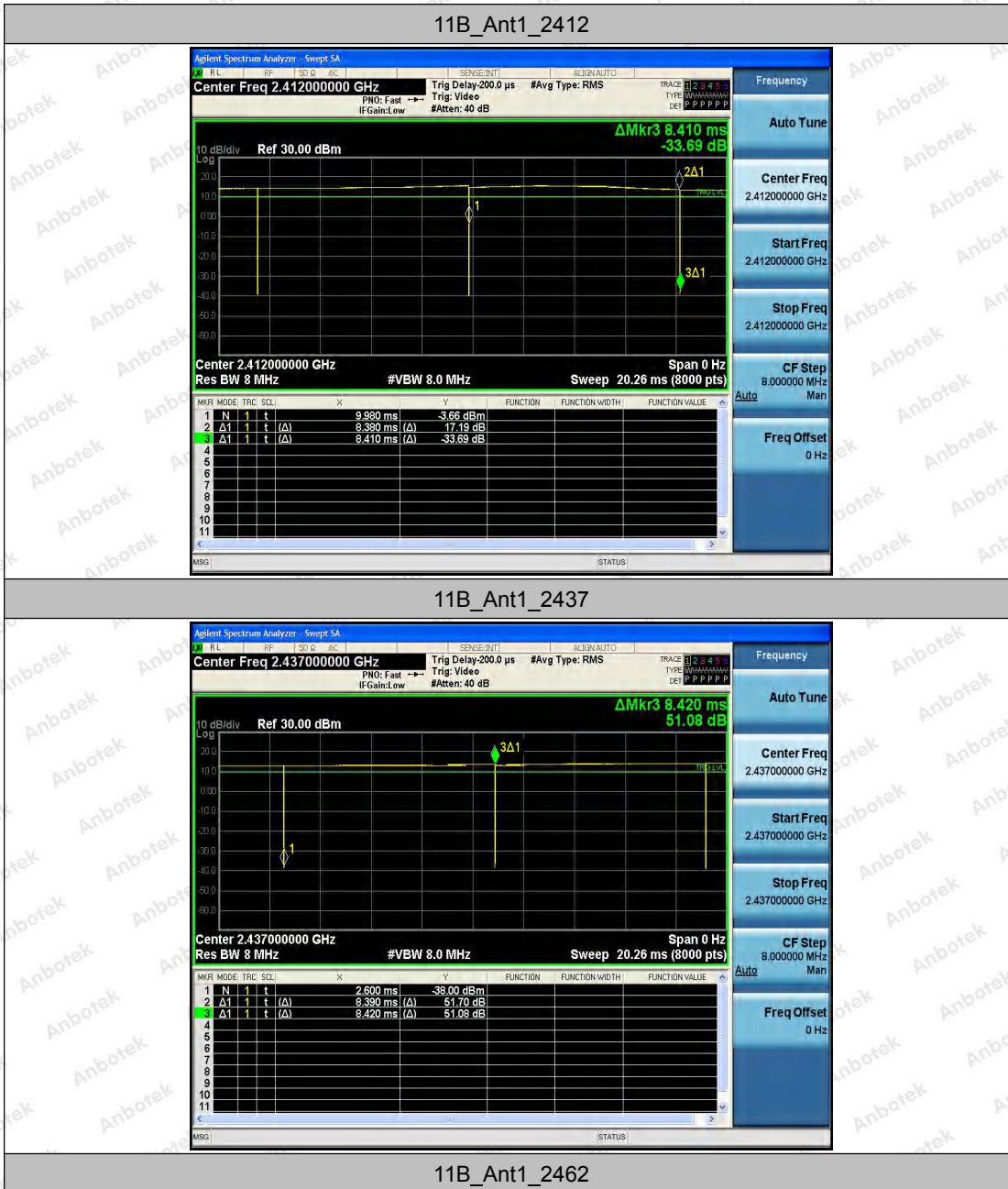
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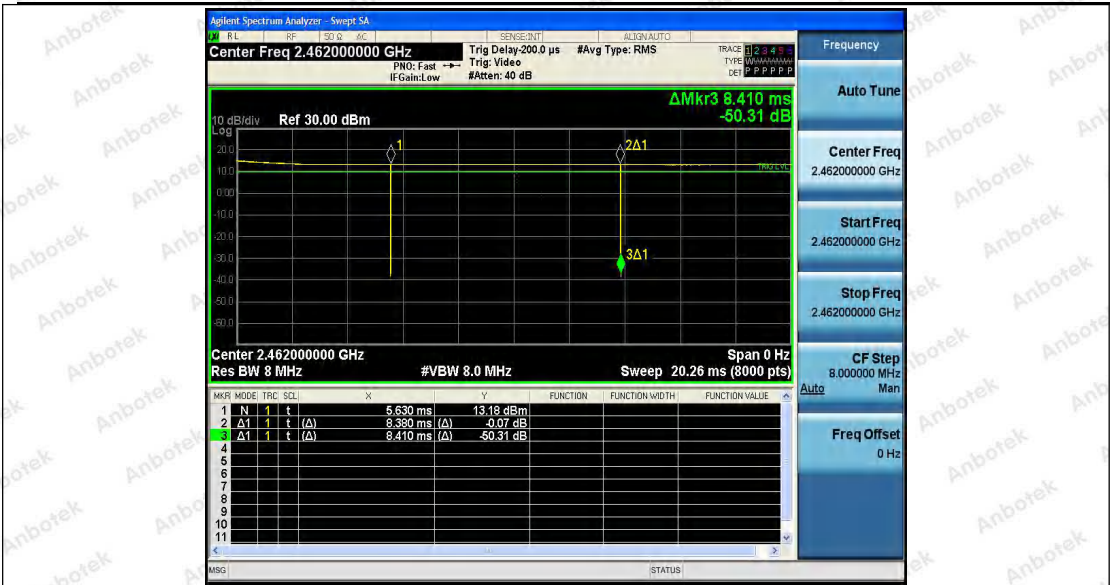
Appendix G: Duty Cycle

Test Result

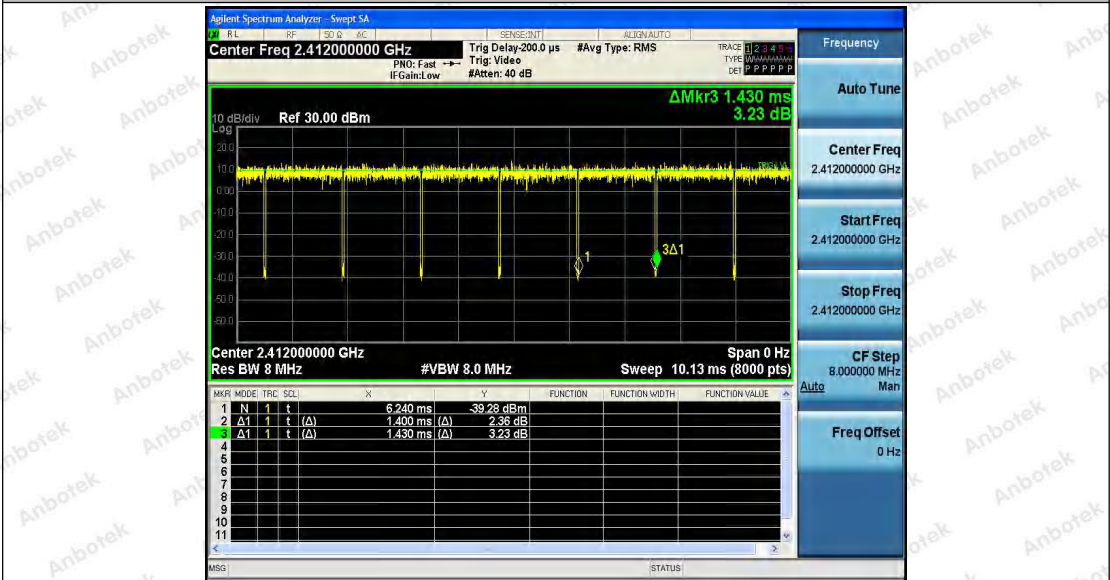
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.41	99.64	---	PASS
		2437	8.39	8.42	99.64	---	PASS
		2462	8.38	8.41	99.64	---	PASS
11G	Ant1	2412	1.40	1.43	97.90	---	PASS
		2437	1.40	1.43	97.90	---	PASS
		2462	1.39	1.43	97.20	---	PASS
11N20	Ant1	2412	1.29	1.33	96.99	---	PASS
		2437	1.30	1.34	97.01	---	PASS
		2462	1.30	1.33	97.74	---	PASS
11N40	Ant1	2422	0.65	0.68	95.59	---	PASS
		2437	0.65	0.68	95.59	---	PASS
		2452	0.64	0.68	94.12	---	PASS

Test Graphs

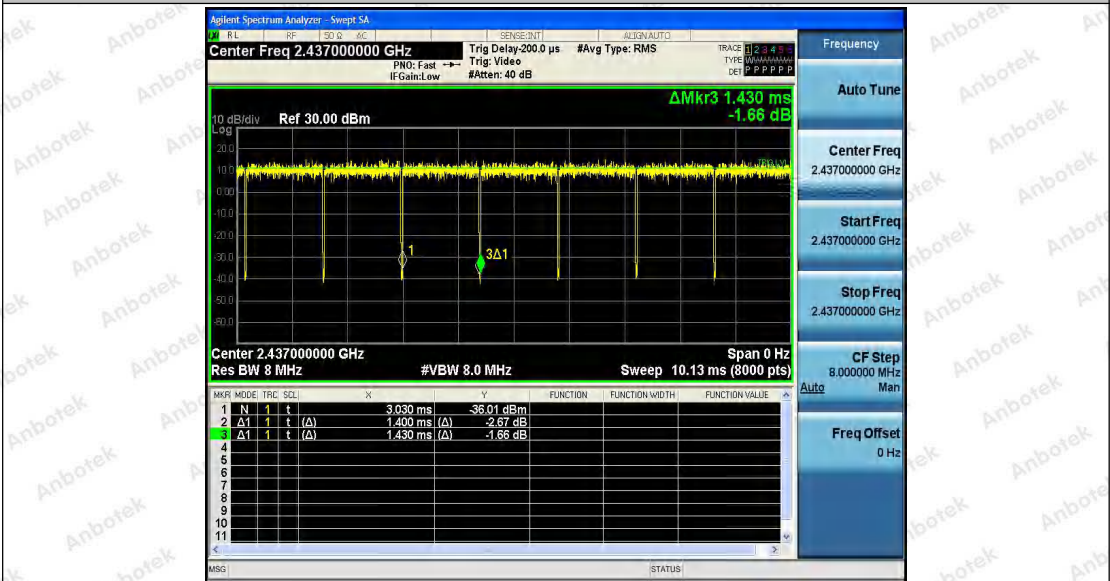




11G_Ant1_2412



11G_Ant1_2437

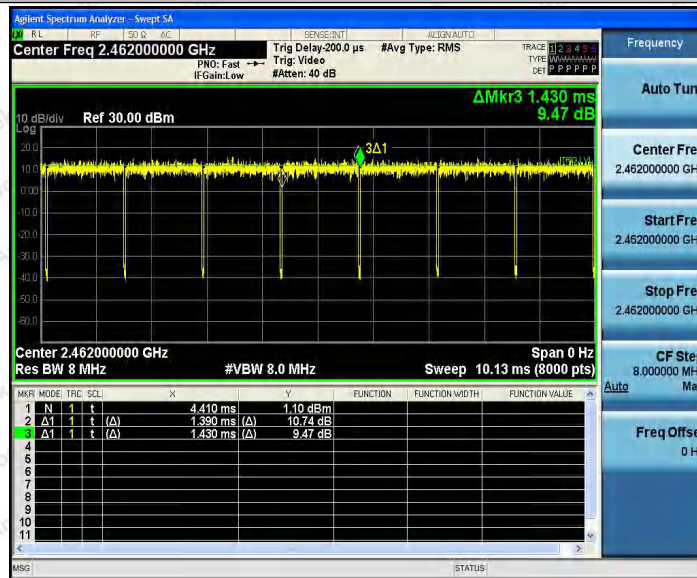


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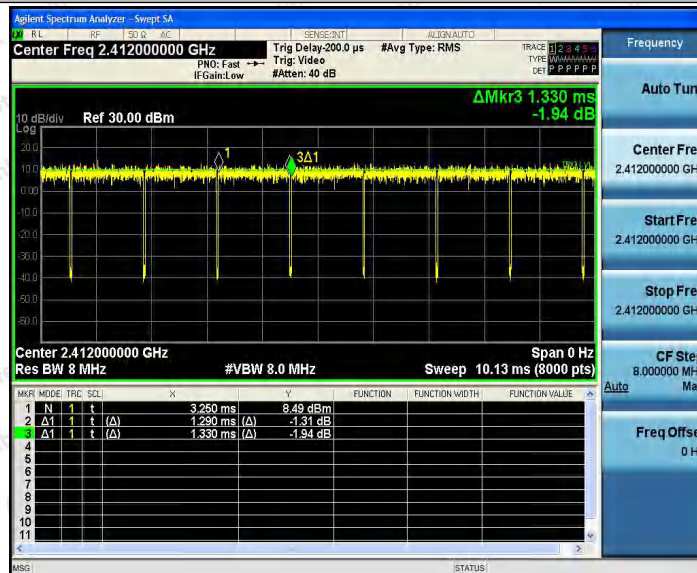
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11G_Ant1_2462



11N20_Ant1_2412



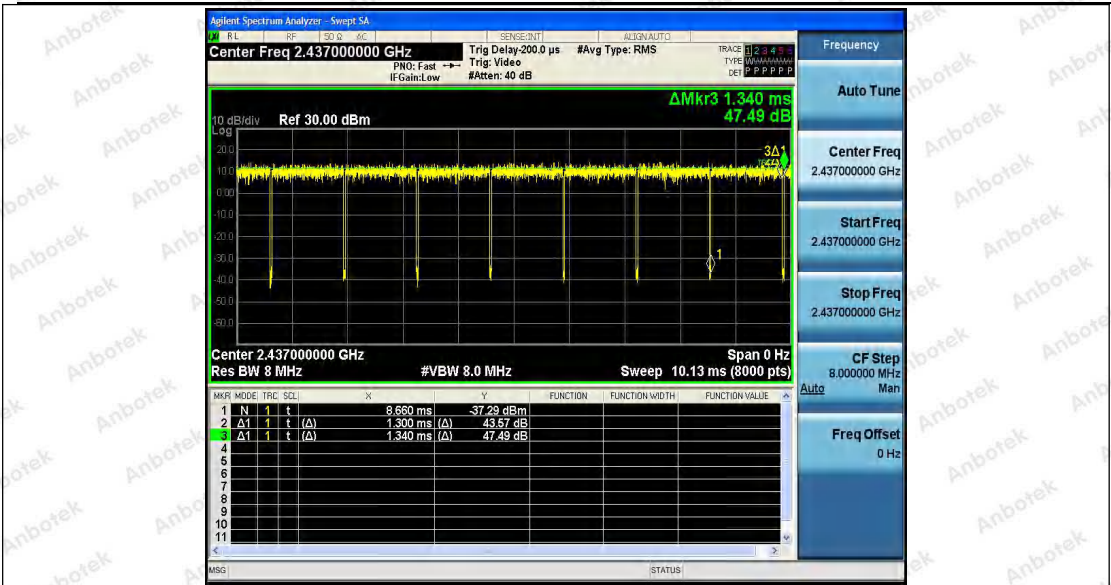
11N20_Ant1_2437

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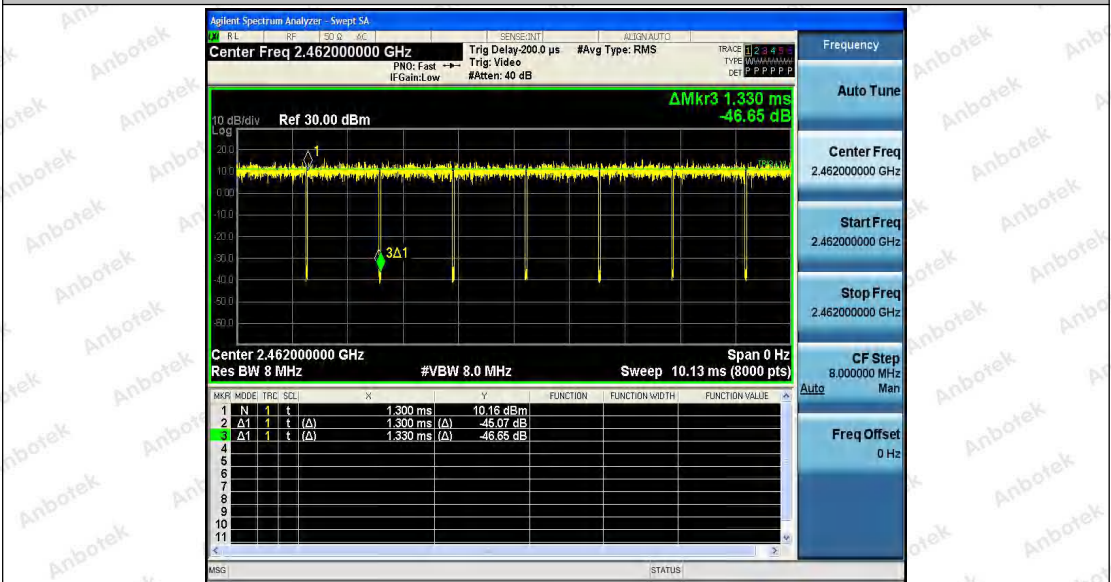
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

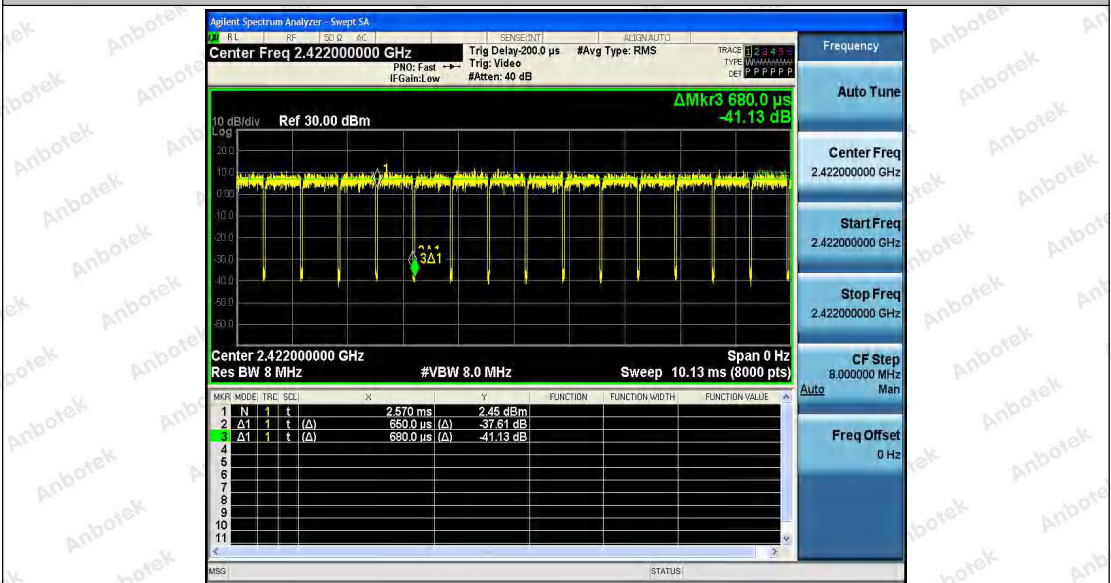
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11N20_Ant1_2462



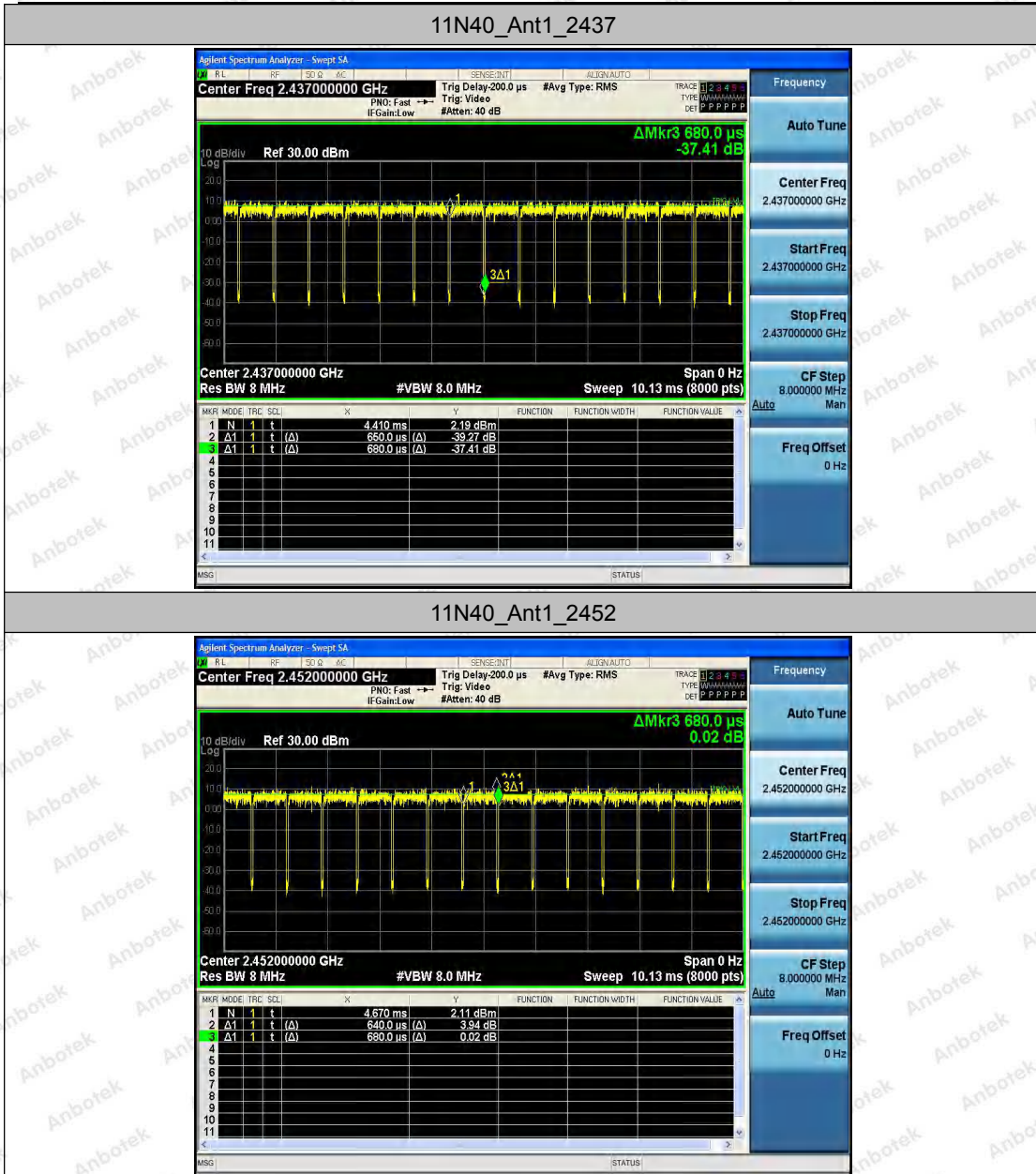
11N40_Ant1_2422



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---End---