

Appendix Test Data

Report No.:	18220WC10259201	Test Sample No.:	1-2-2
Start Test Date:	2021.11.24	Finish Test Date:	2021.12.6
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.080	2408.520	2415.600	≥0.5	PASS
		2437	7.640	2433.480	2441.120	≥0.5	PASS
		2462	7.600	2458.480	2466.080	≥0.5	PASS
11G	Ant1	2412	15.200	2404.440	2419.640	≥0.5	PASS
		2437	15.200	2429.480	2444.680	≥0.5	PASS
		2462	15.240	2454.440	2469.680	≥0.5	PASS
11N20	Ant1	2412	15.240	2404.440	2419.680	≥0.5	PASS
		2437	15.240	2429.440	2444.680	≥0.5	PASS
		2462	15.240	2454.440	2469.680	≥0.5	PASS
11N40	Ant1	2422	35.280	2404.420	2439.700	≥0.5	PASS
		2437	35.760	2419.420	2455.180	≥0.5	PASS
		2452	35.280	2434.420	2469.700	≥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

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11N20_Ant1_2462



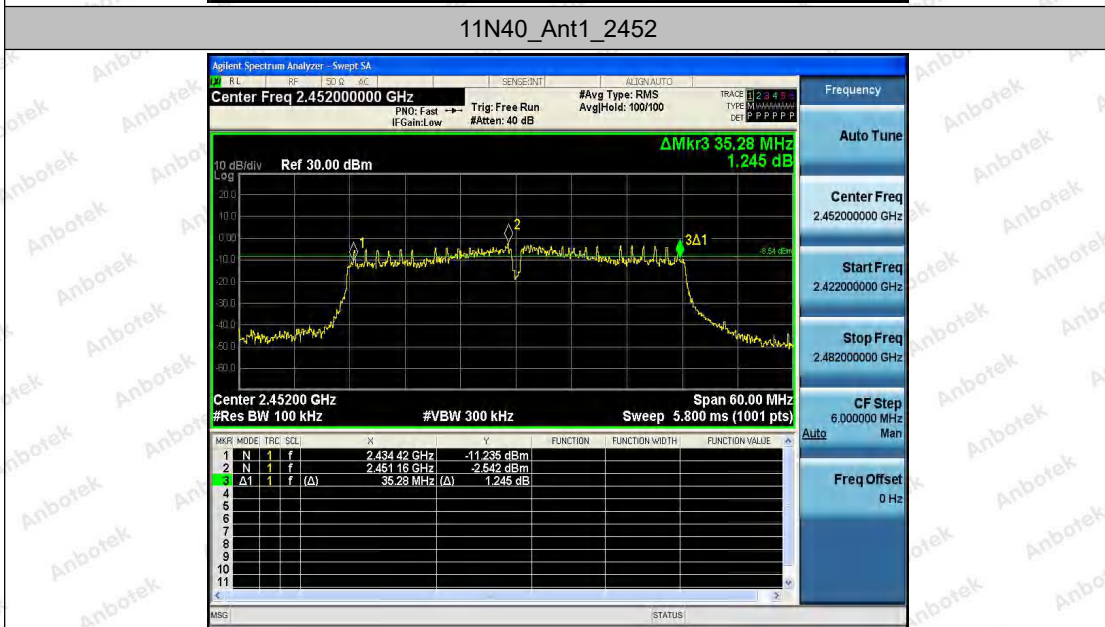
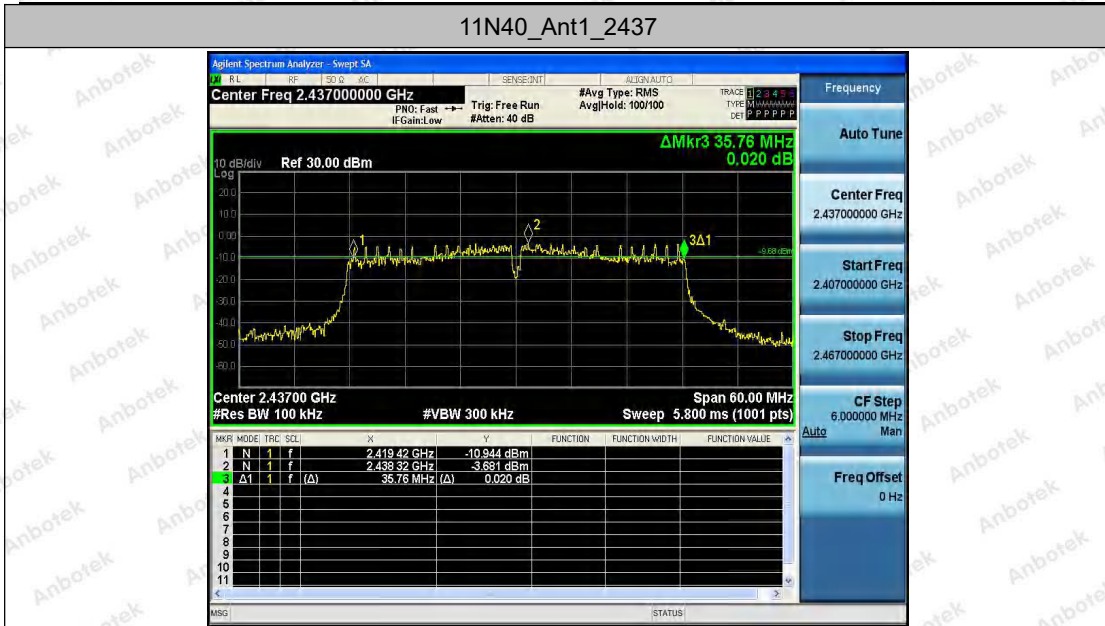
11N40_Ant1_2422



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.274	2406.558	2417.832	---	PASS
		2437	11.392	2431.431	2442.823	---	PASS
		2462	11.378	2456.520	2467.898	---	PASS
11G	Ant1	2412	16.467	2403.870	2420.337	---	PASS
		2437	16.520	2428.844	2445.364	---	PASS
		2462	16.426	2453.910	2470.336	---	PASS
11N20	Ant1	2412	17.689	2403.240	2420.929	---	PASS
		2437	17.738	2428.264	2446.002	---	PASS
		2462	17.609	2453.271	2470.880	---	PASS
11N40	Ant1	2422	35.819	2404.211	2440.030	---	PASS
		2437	35.885	2419.167	2455.052	---	PASS
		2452	35.936	2434.201	2470.137	---	PASS

Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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11N20_Ant1_2462



11N40_Ant1_2422

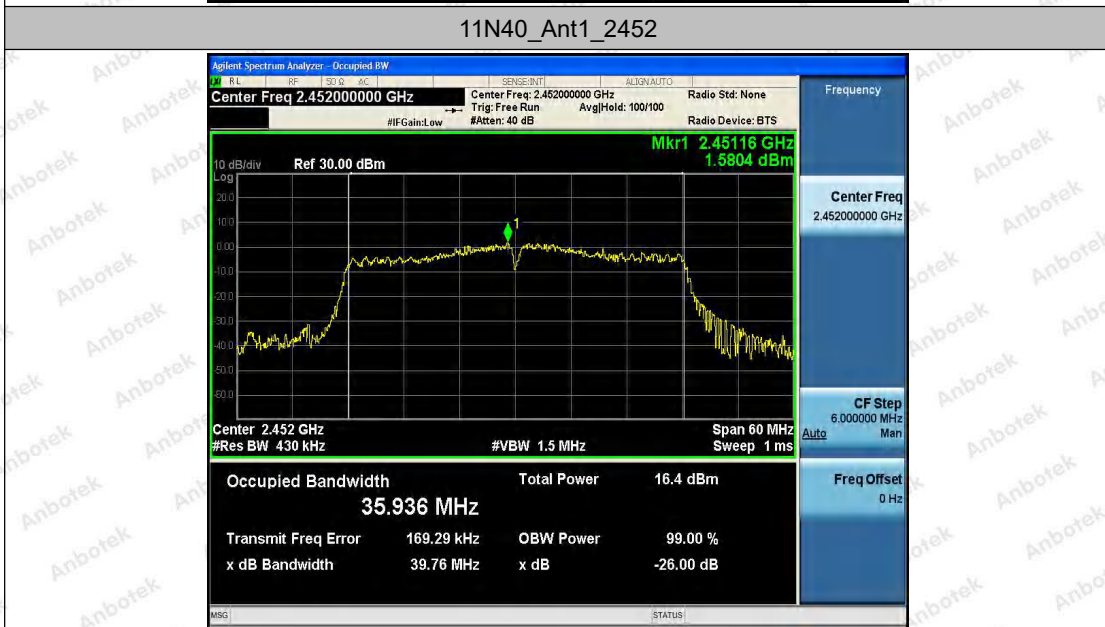


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Appendix C: Maximum conducted output power

Test Result

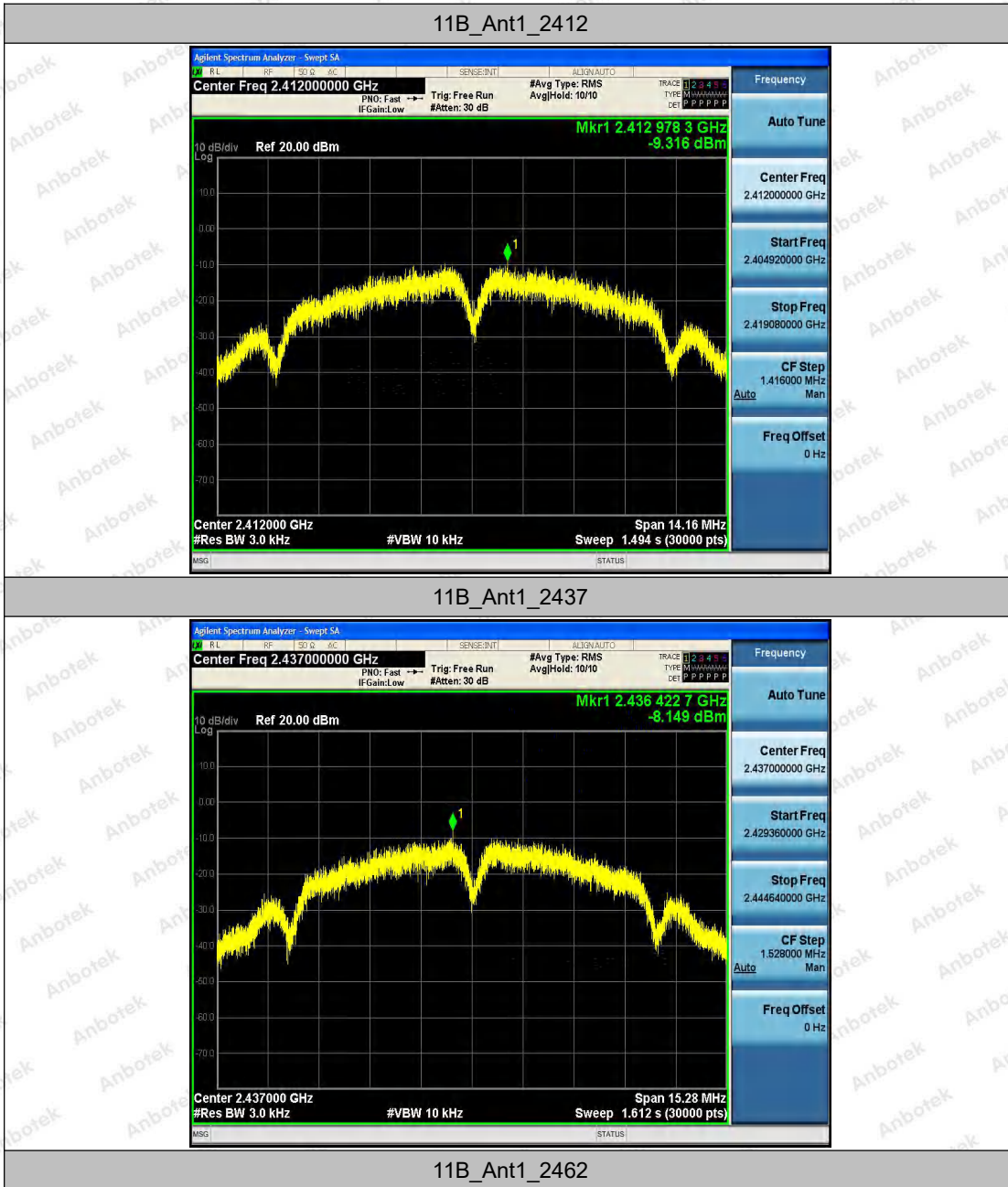
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.41	≤30	PASS
		2437	15.70	≤30	PASS
		2462	15.96	≤30	PASS
11G	Ant1	2412	15.45	≤30	PASS
		2437	15.56	≤30	PASS
		2462	15.88	≤30	PASS
11N20	Ant1	2412	14.30	≤30	PASS
		2437	14.68	≤30	PASS
		2462	14.68	≤30	PASS
11N40	Ant1	2422	15.80	≤30	PASS
		2437	15.77	≤30	PASS
		2452	15.69	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.32	≤8	PASS
		2437	-8.15	≤8	PASS
		2462	-9.26	≤8	PASS
11G	Ant1	2412	-17.3	≤8	PASS
		2437	-17.13	≤8	PASS
		2462	-16.45	≤8	PASS
11N20	Ant1	2412	-17.02	≤8	PASS
		2437	-16.88	≤8	PASS
		2462	-16.36	≤8	PASS
11N40	Ant1	2422	-19.35	≤8	PASS
		2437	-18.85	≤8	PASS
		2452	-19.06	≤8	PASS

Test Graphs



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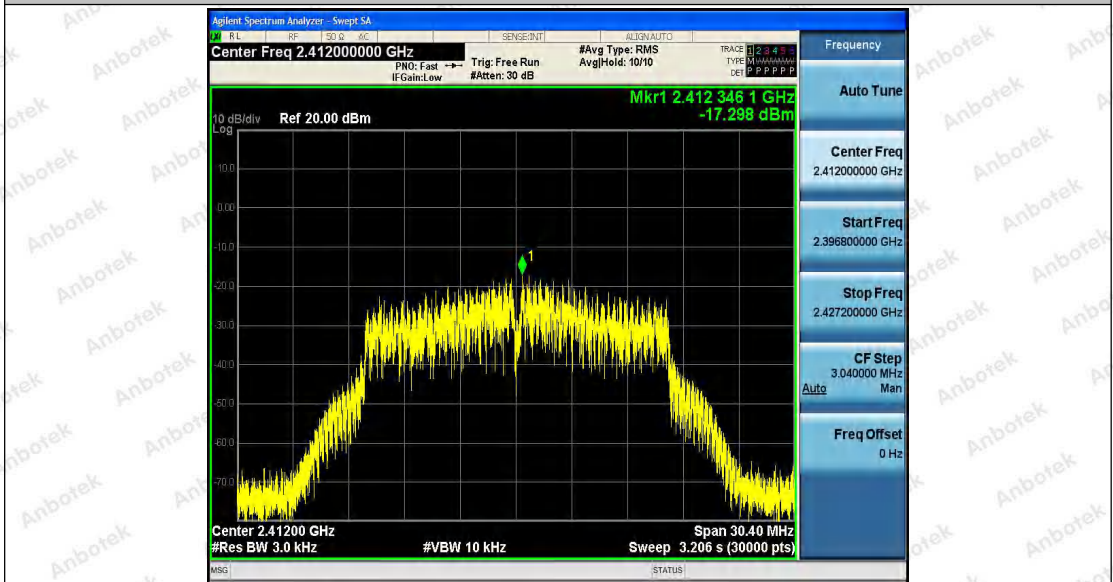
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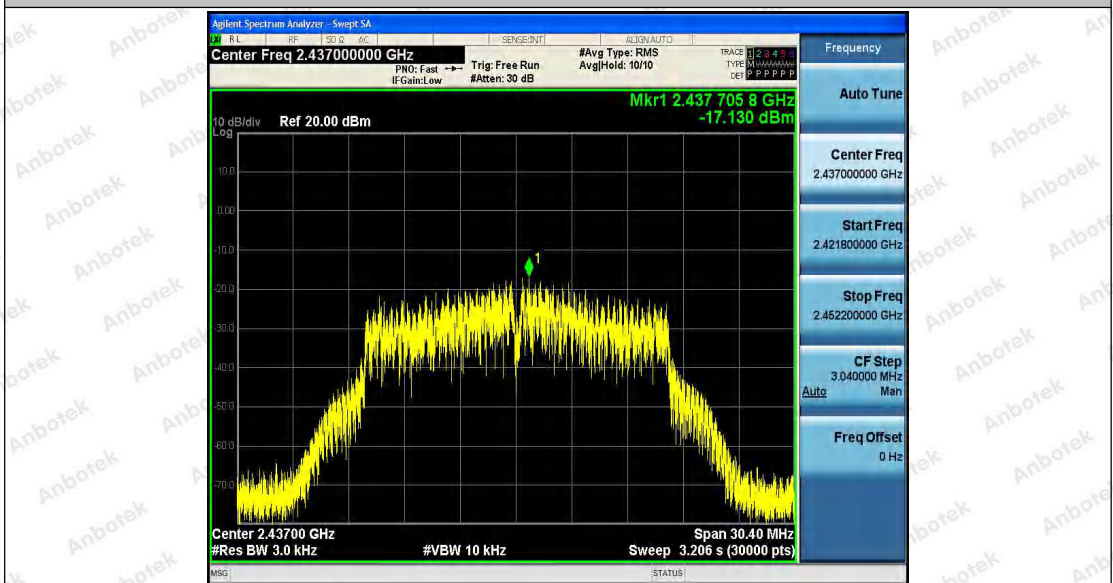
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11G_Ant1_2412



11G_Ant1_2437

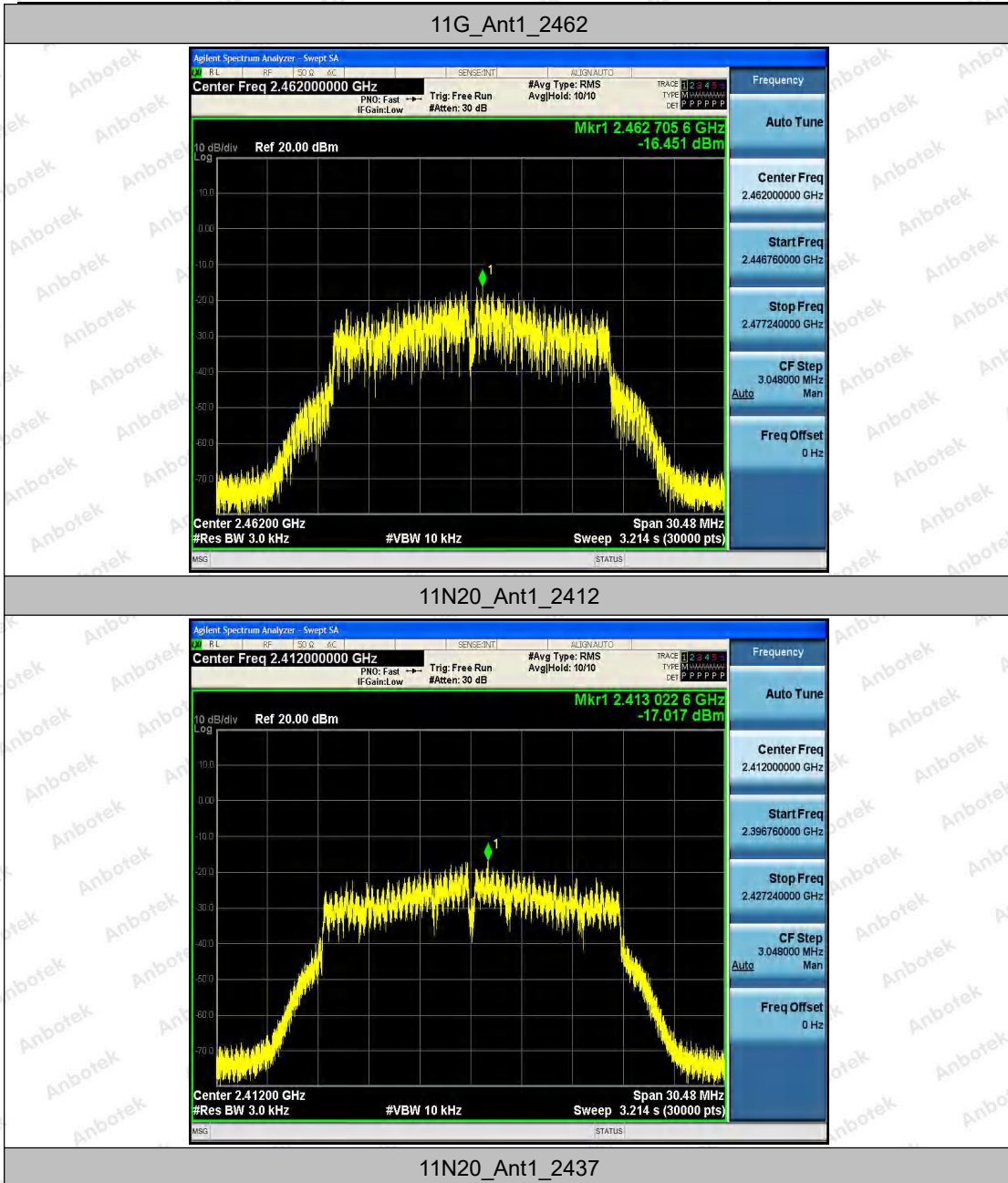


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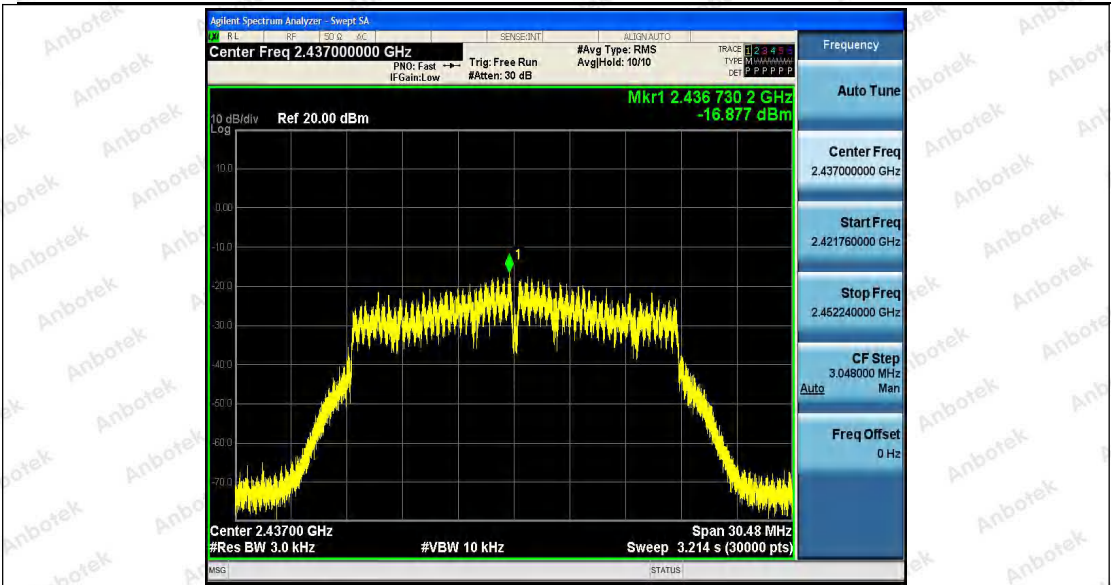


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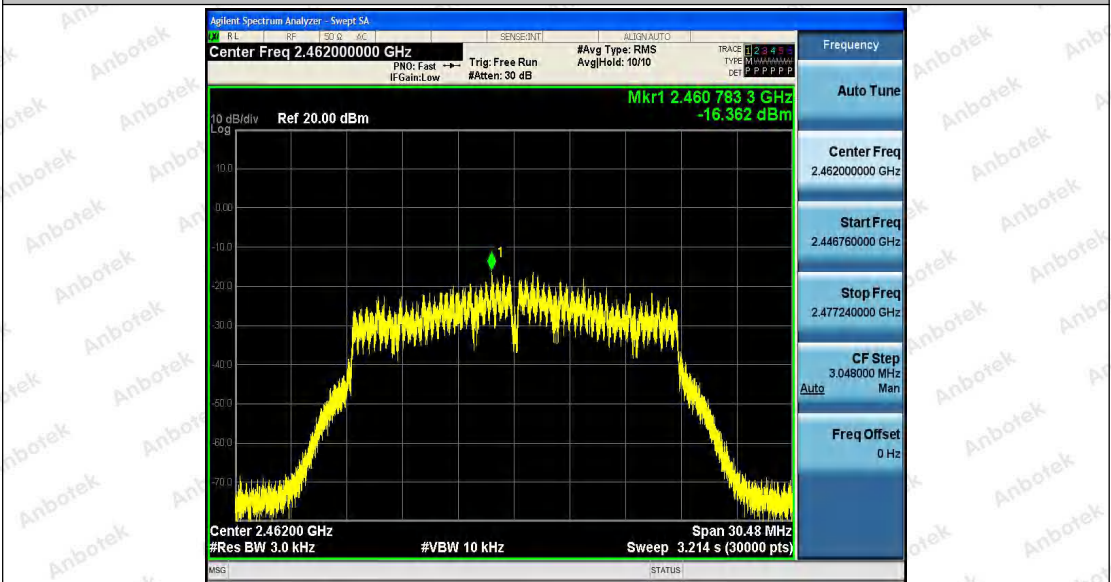
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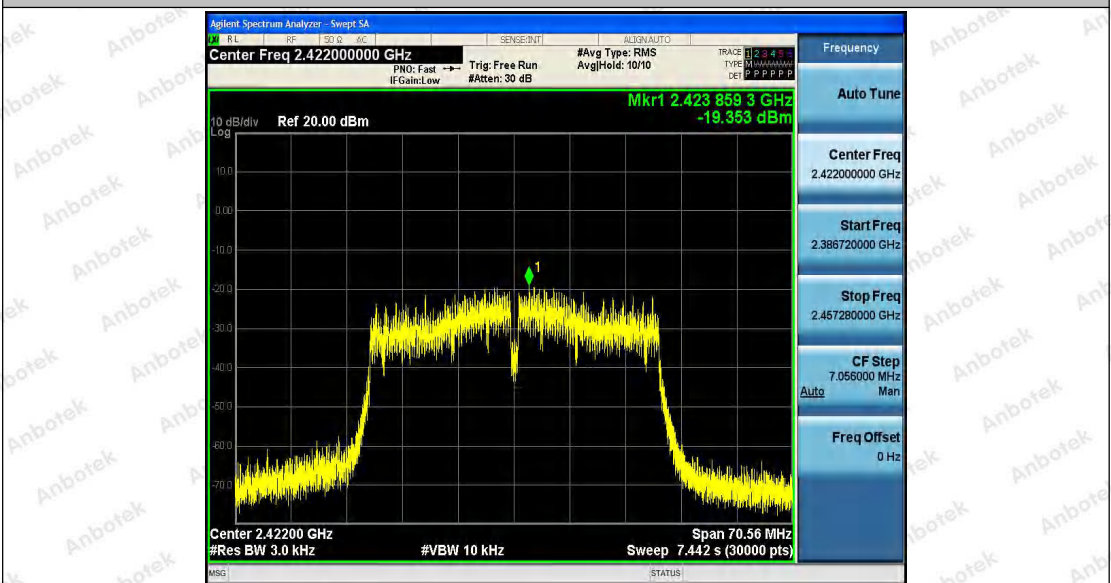
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11N20_Ant1_2462



11N40_Ant1_2422

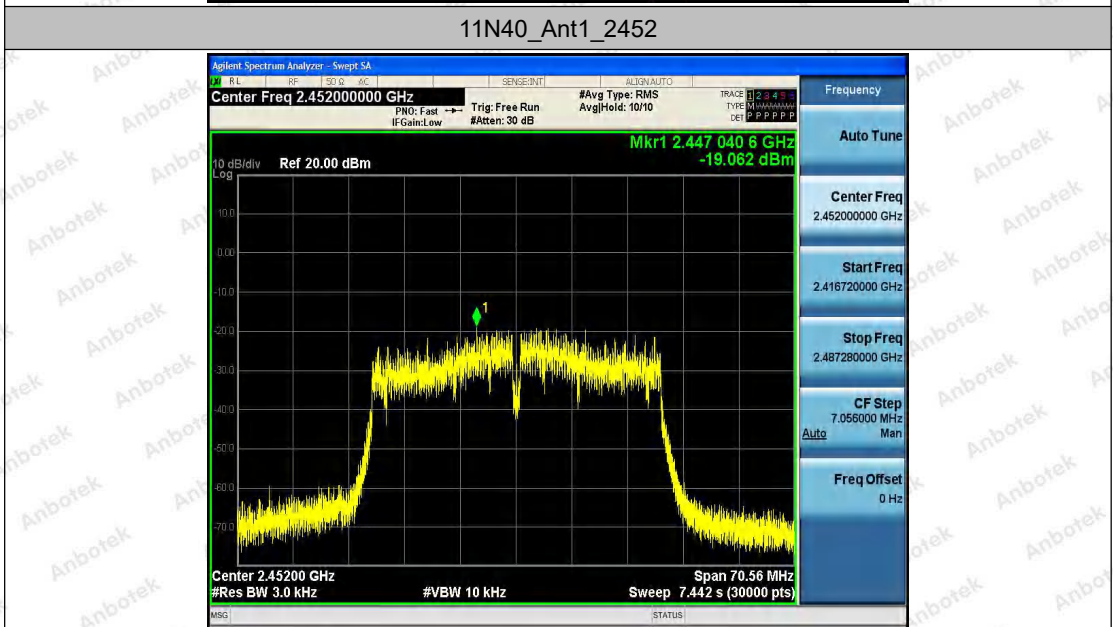
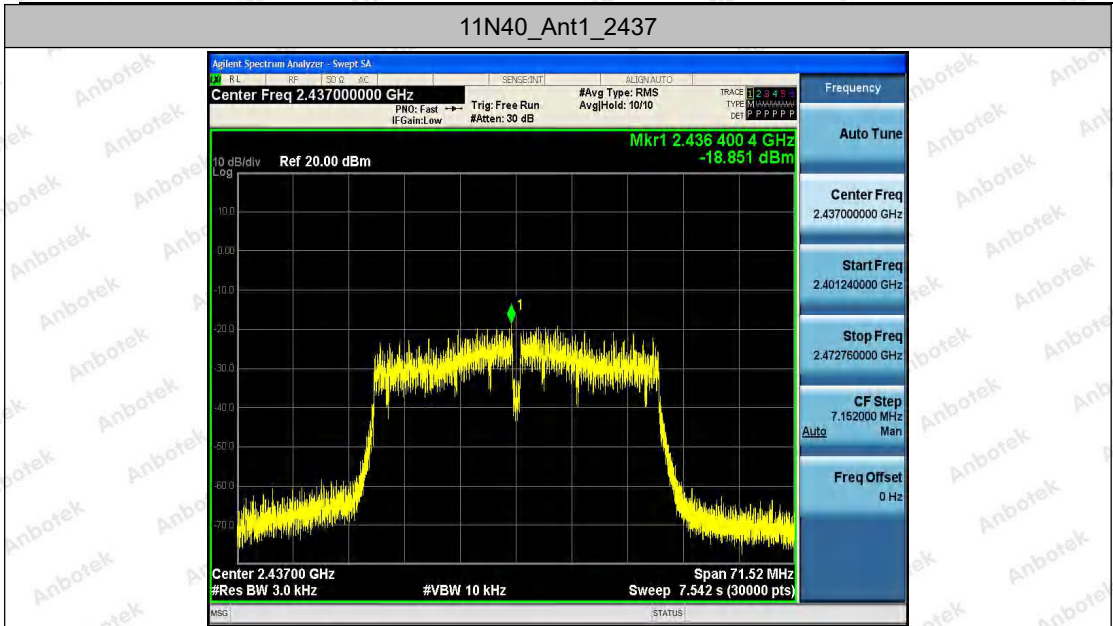


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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.27	-39.95	≤-15.73	PASS
		High	2462	2.80	-58.66	≤-17.2	PASS
11G	Ant1	Low	2412	-1.94	-50.48	≤-21.94	PASS
		High	2462	-1.42	-54.44	≤-21.42	PASS
11N20	Ant1	Low	2412	-3.17	-48.36	≤-23.17	PASS
		High	2462	-2.90	-55.67	≤-22.9	PASS
11N40	Ant1	Low	2422	-3.78	-41.3	≤-23.78	PASS
		High	2452	-3.08	-43.69	≤-23.08	PASS

Test Graphs

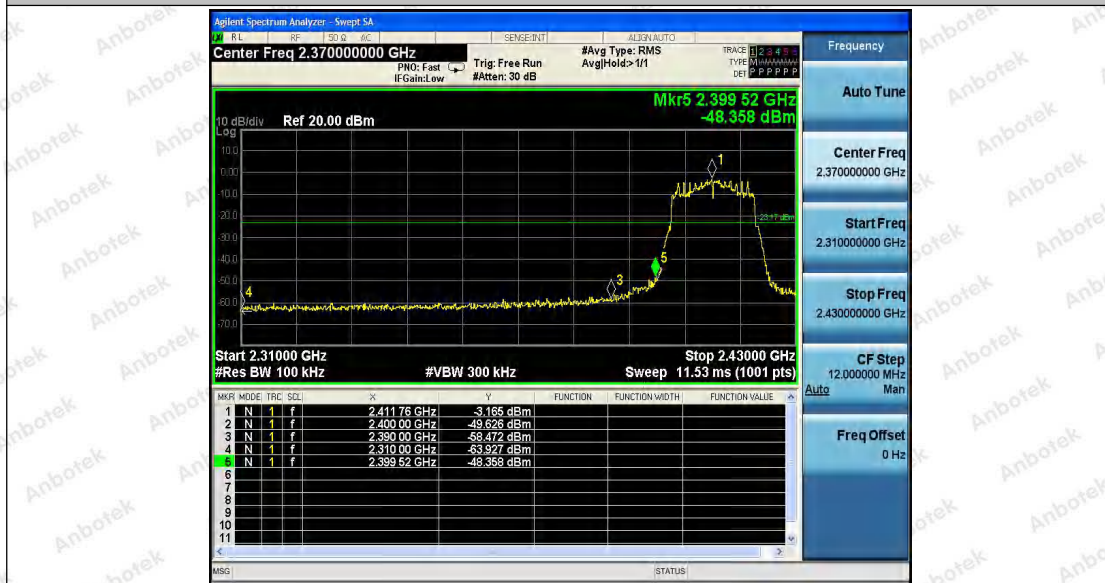




11G_Ant1_High_2462



11N20_Ant1_Low_2412



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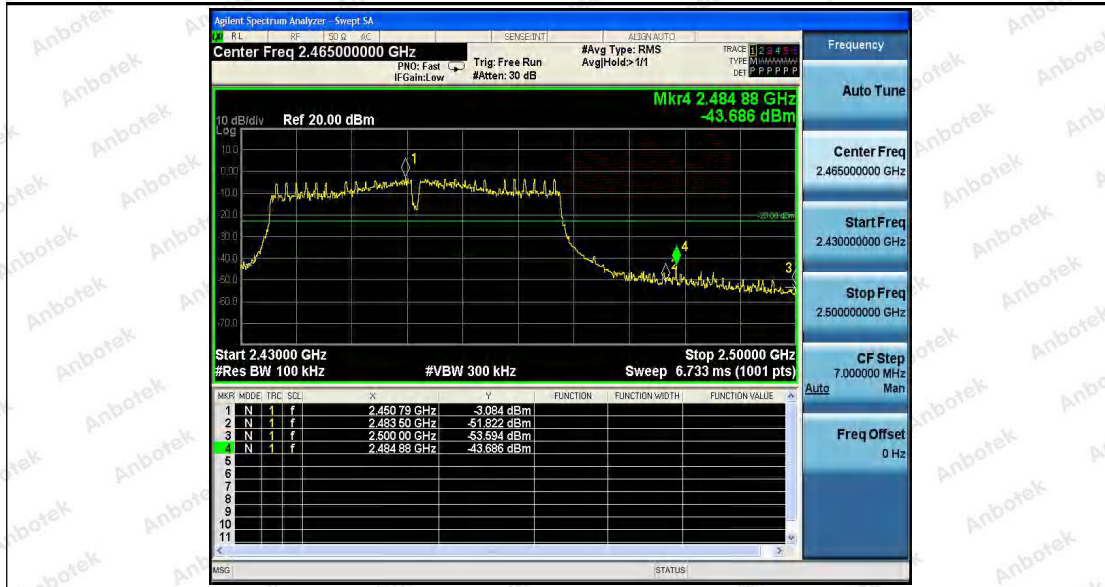


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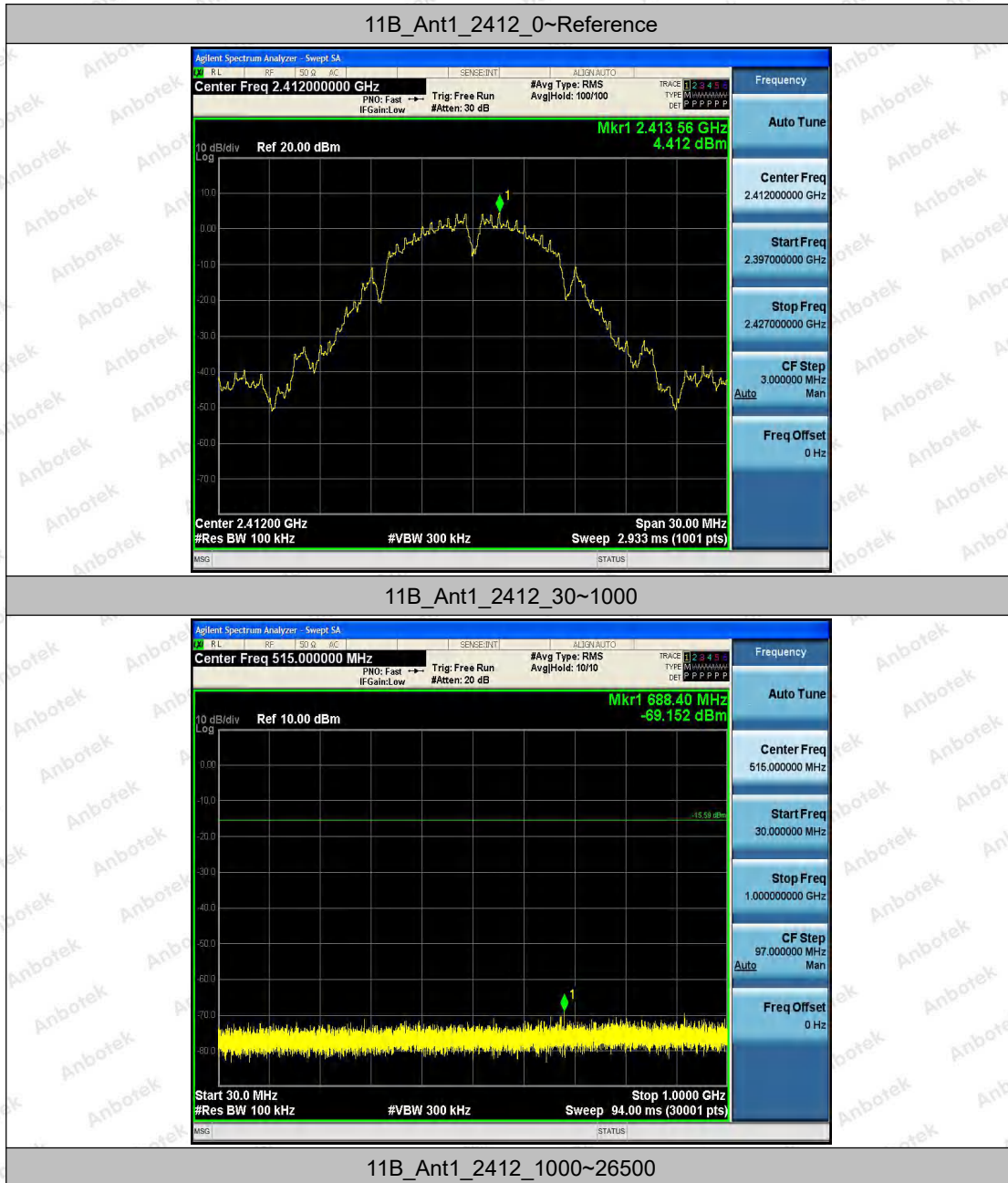
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.41	4.41	---	PASS
			30~1000	4.41	-69.15	≤-15.59	PASS
			1000~26500	4.41	-55.56	≤-15.59	PASS
		2437	Reference	4.74	4.74	---	PASS
			30~1000	4.74	-70.07	≤-15.26	PASS
			1000~26500	4.74	-55.9	≤-15.26	PASS
		2462	Reference	4.80	4.80	---	PASS
			30~1000	4.80	-70.12	≤-15.2	PASS
			1000~26500	4.80	-55.93	≤-15.2	PASS
11G	Ant1	2412	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-70.66	≤-21.75	PASS
			1000~26500	-1.75	-55.1	≤-21.75	PASS
		2437	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-70.55	≤-21.74	PASS
			1000~26500	-1.74	-55.04	≤-21.74	PASS
		2462	Reference	-0.92	-0.92	---	PASS
			30~1000	-0.92	-70.4	≤-20.92	PASS
			1000~26500	-0.92	-55.74	≤-20.92	PASS
11N20	Ant1	2412	Reference	-3.66	-3.66	---	PASS
			30~1000	-3.66	-67.93	≤-23.66	PASS
			1000~26500	-3.66	-54.9	≤-23.66	PASS
		2437	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-70.44	≤-23.41	PASS
			1000~26500	-3.41	-55.75	≤-23.41	PASS
		2462	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-70.14	≤-21.59	PASS
			1000~26500	-1.59	-56.1	≤-21.59	PASS
11N40	Ant1	2422	Reference	-3.44	-3.44	---	PASS
			30~1000	-3.44	-69.78	≤-23.44	PASS
			1000~26500	-3.44	-55	≤-23.44	PASS
		2437	Reference	-3.50	-3.50	---	PASS
			30~1000	-3.50	-70.15	≤-23.5	PASS
			1000~26500	-3.50	-55.93	≤-23.5	PASS
		2452	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-70.3	≤-23.65	PASS
			1000~26500	-3.65	-55.43	≤-23.65	PASS

Test Graphs

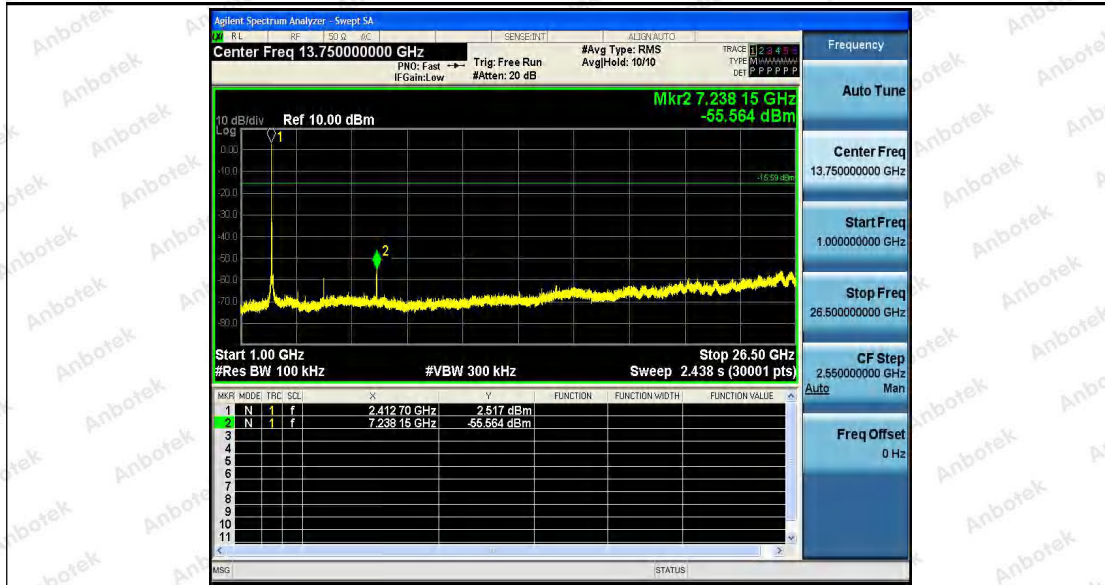


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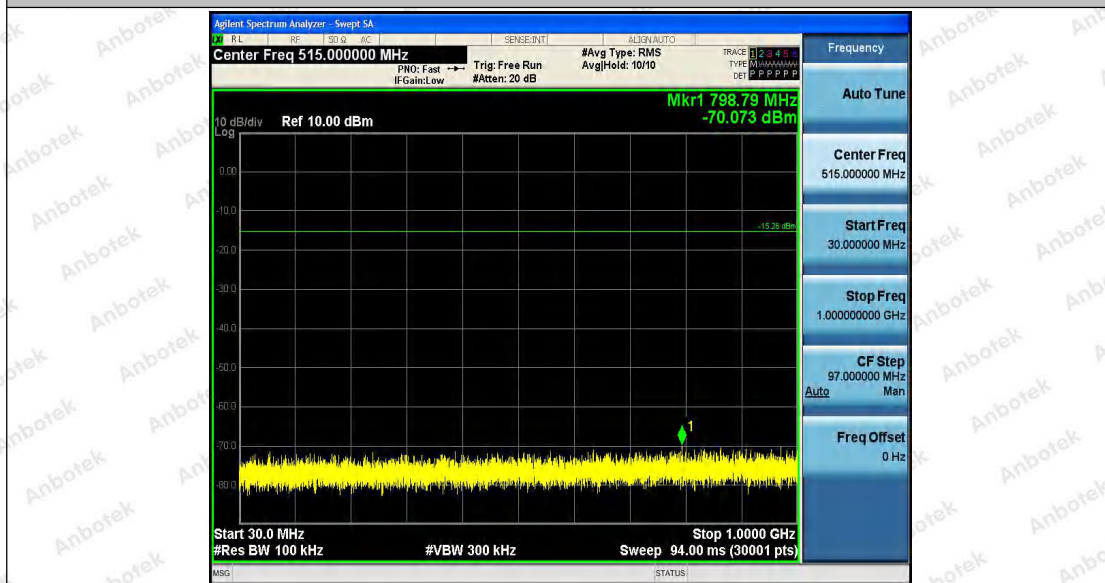
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

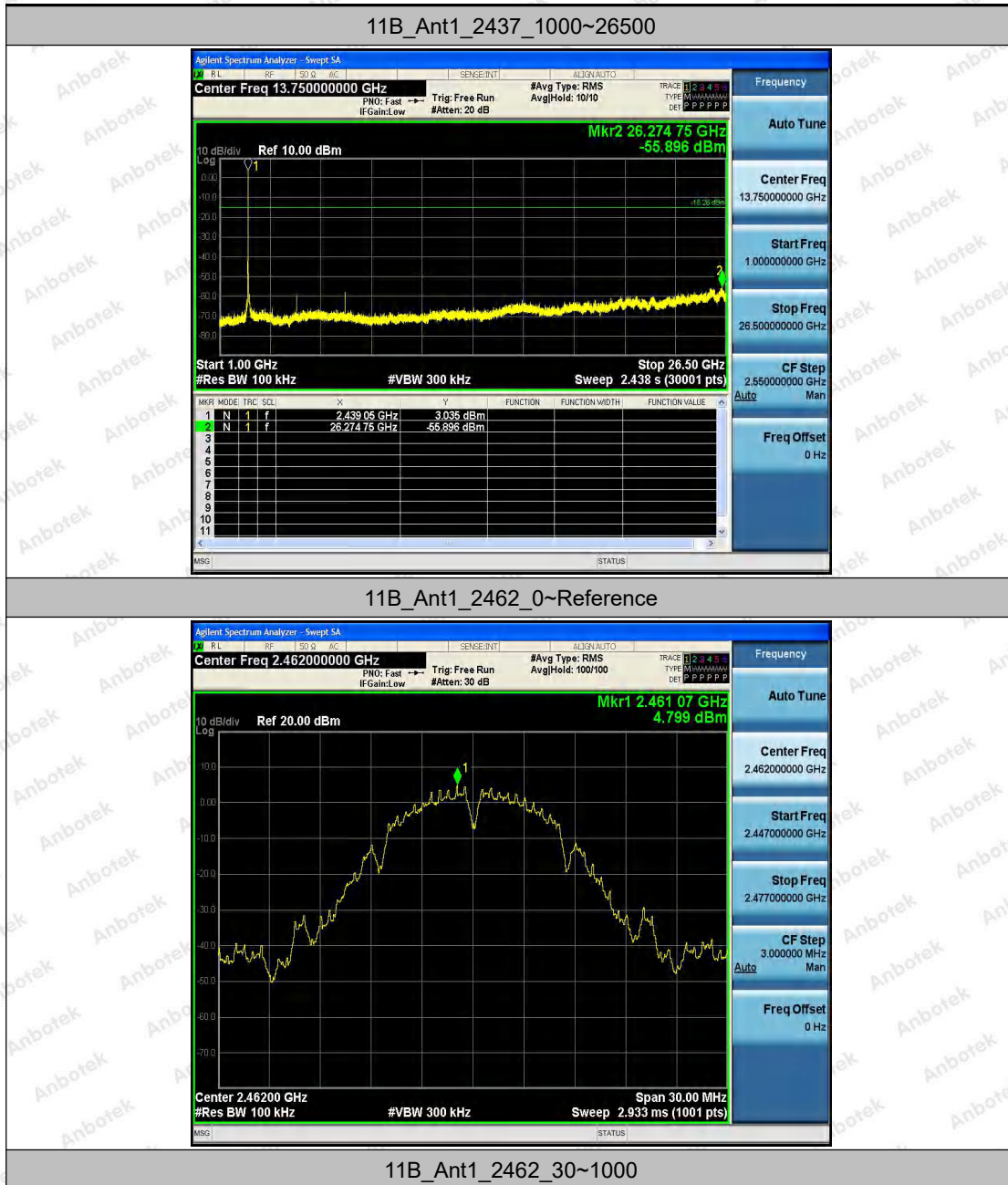


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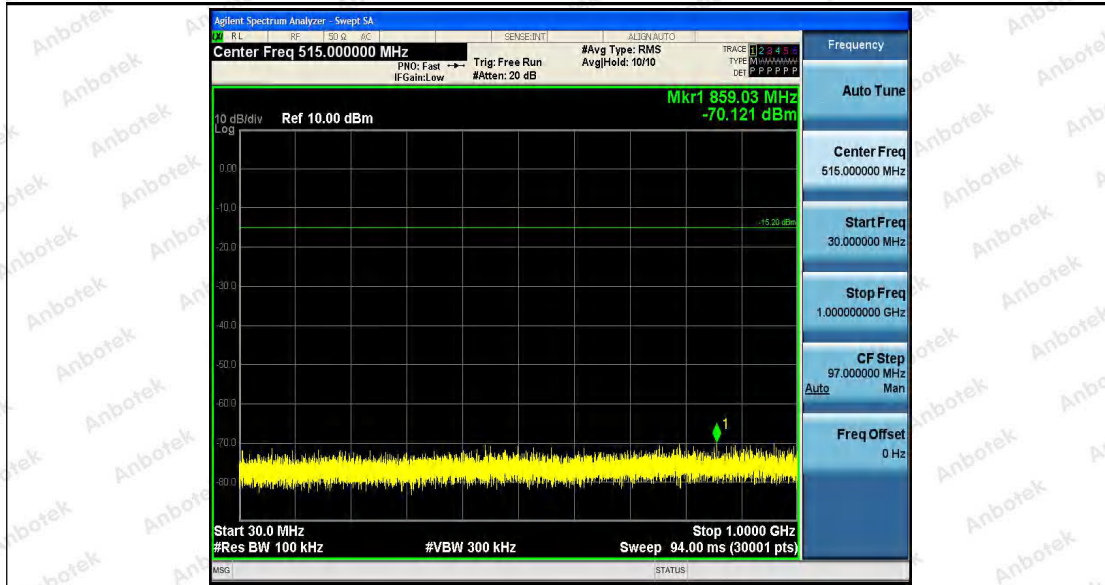


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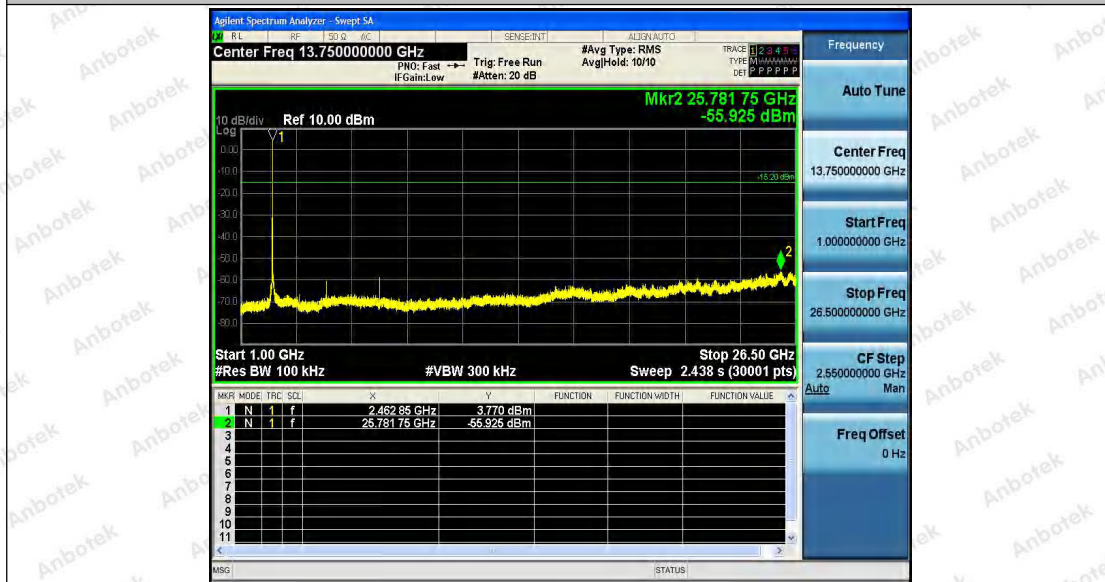
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

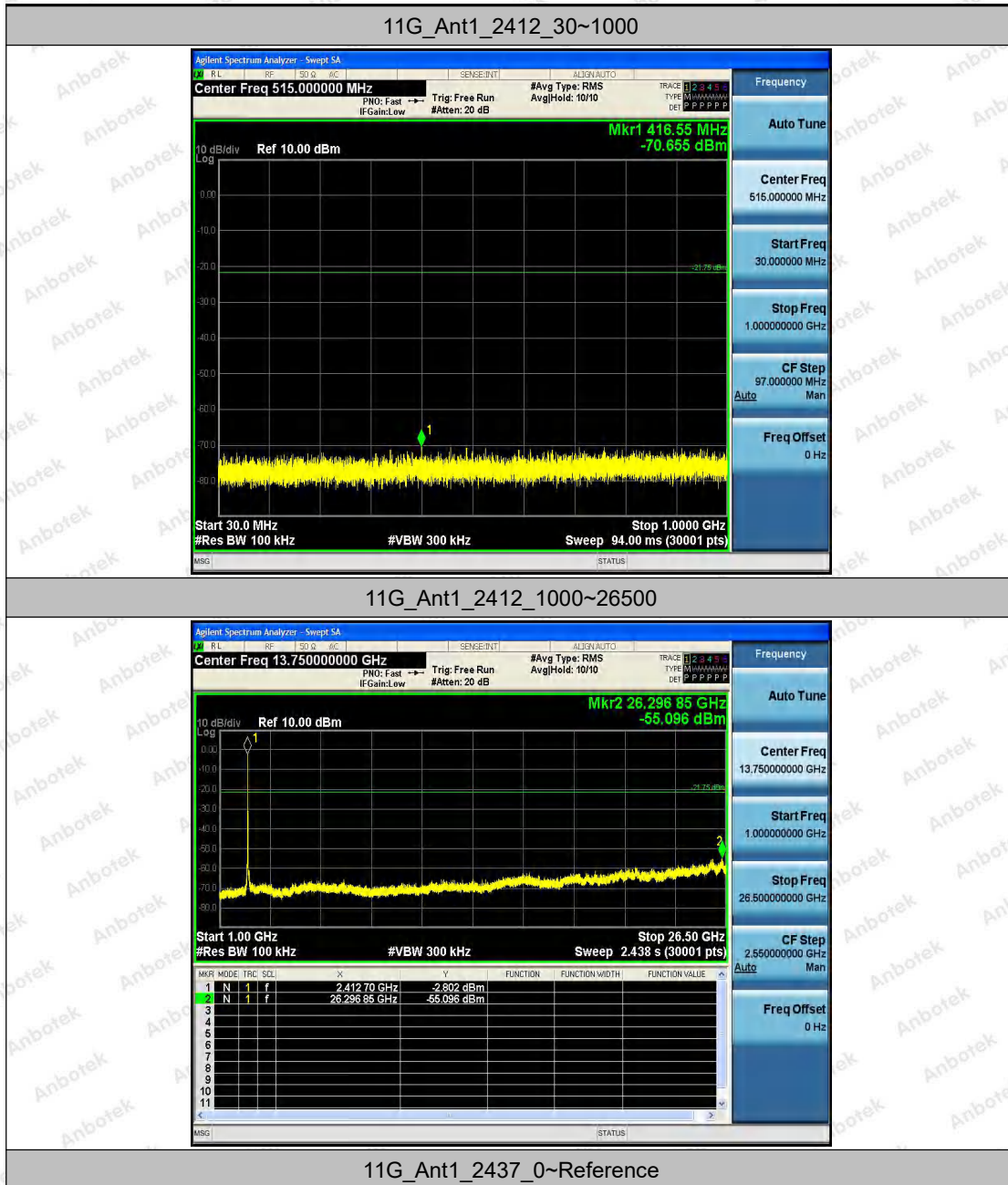


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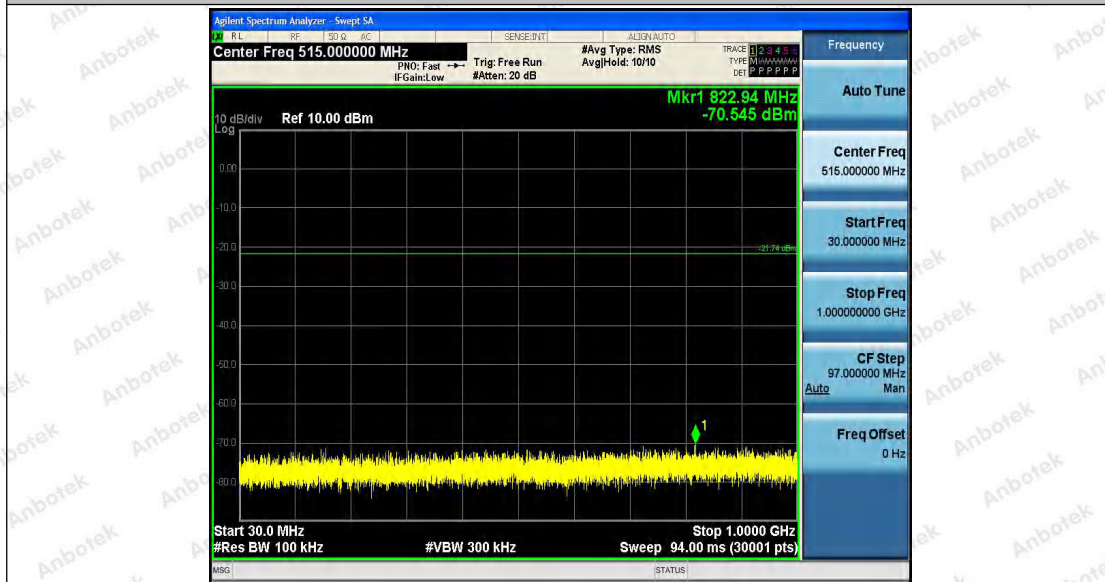
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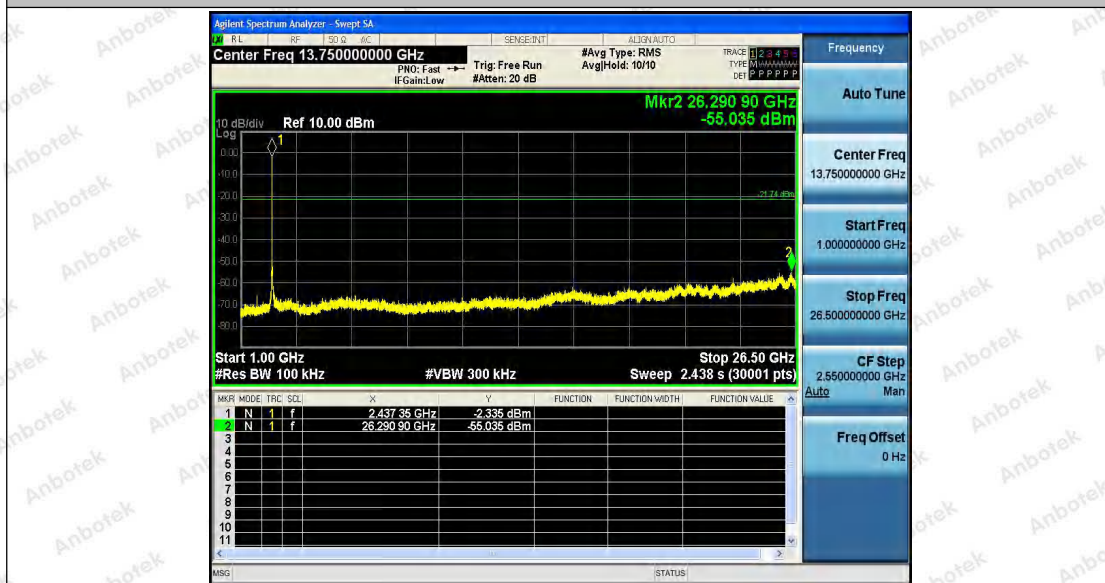
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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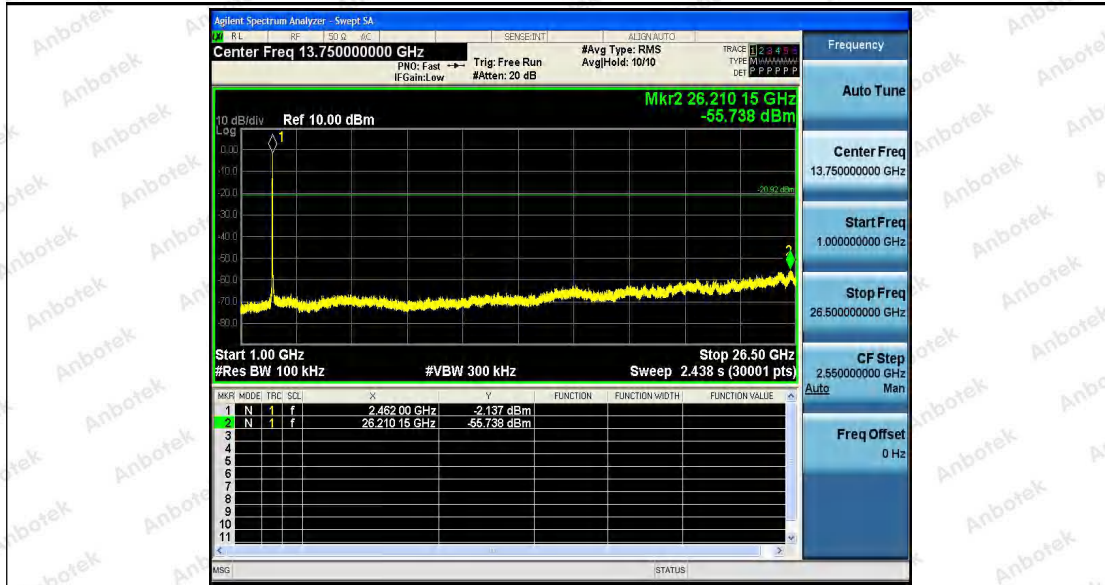
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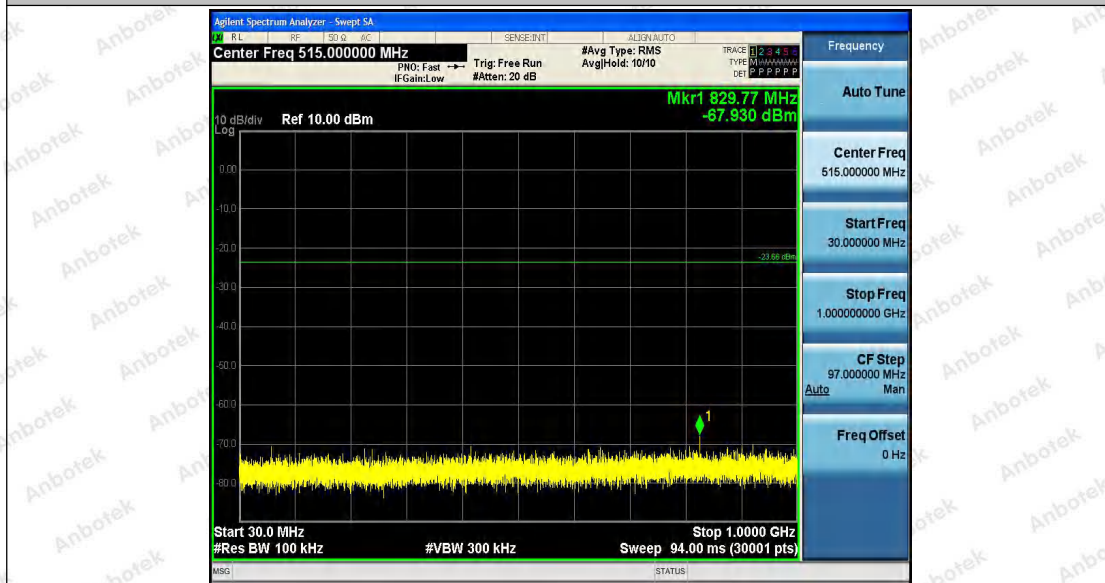
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11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000

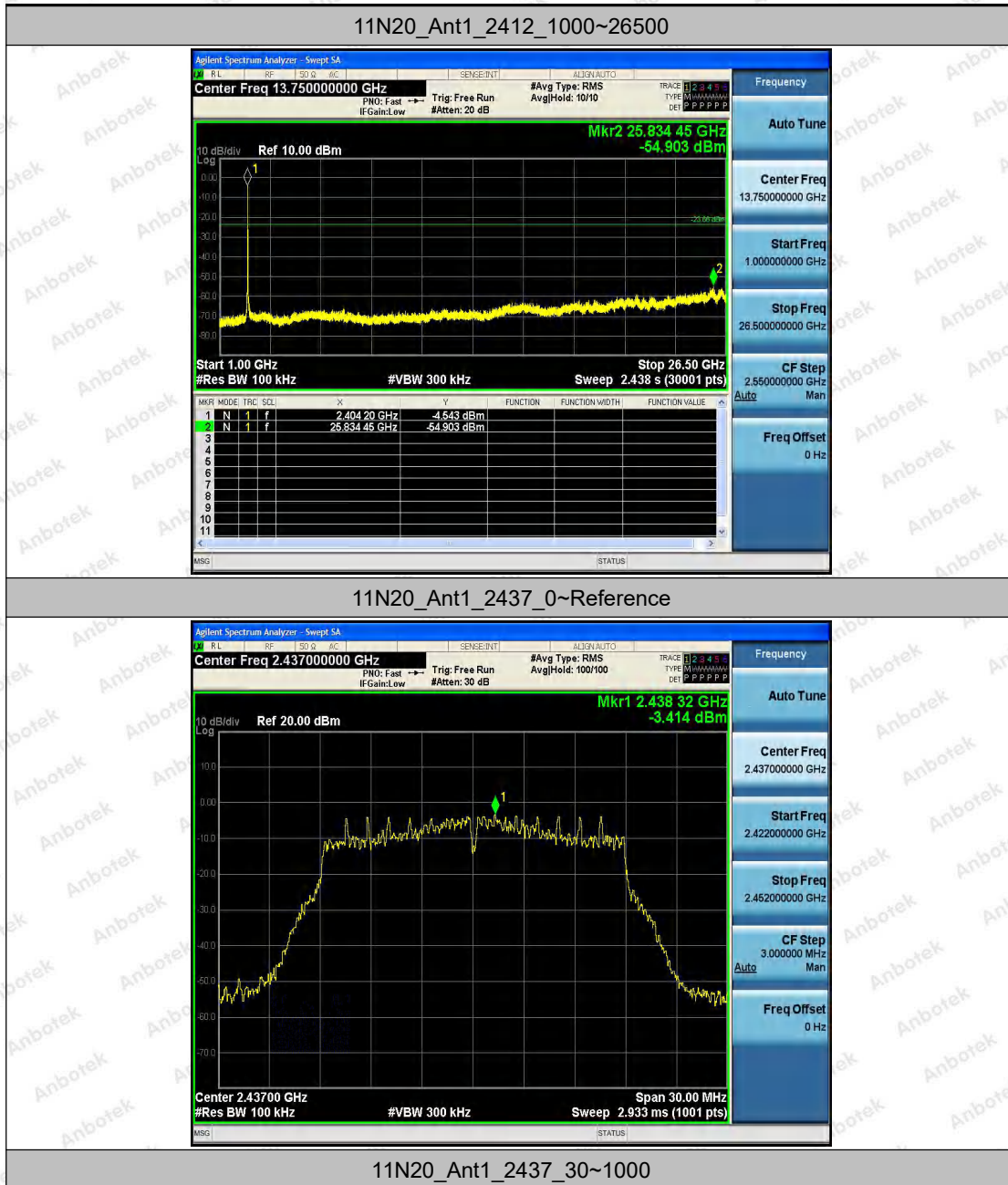


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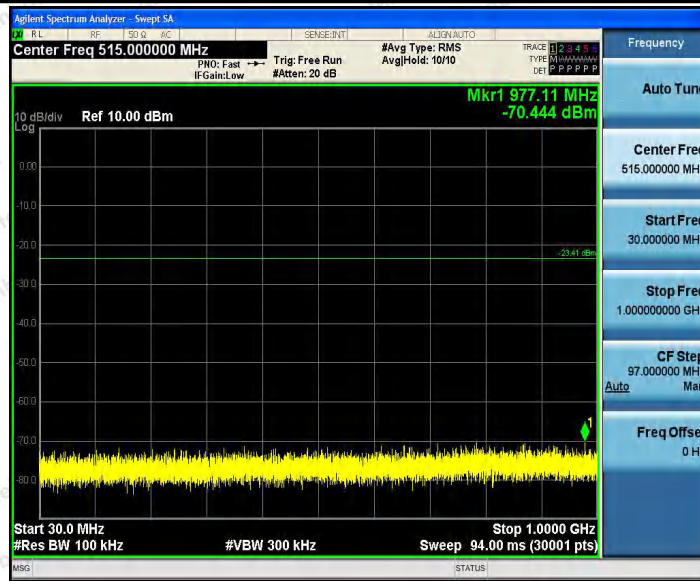


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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

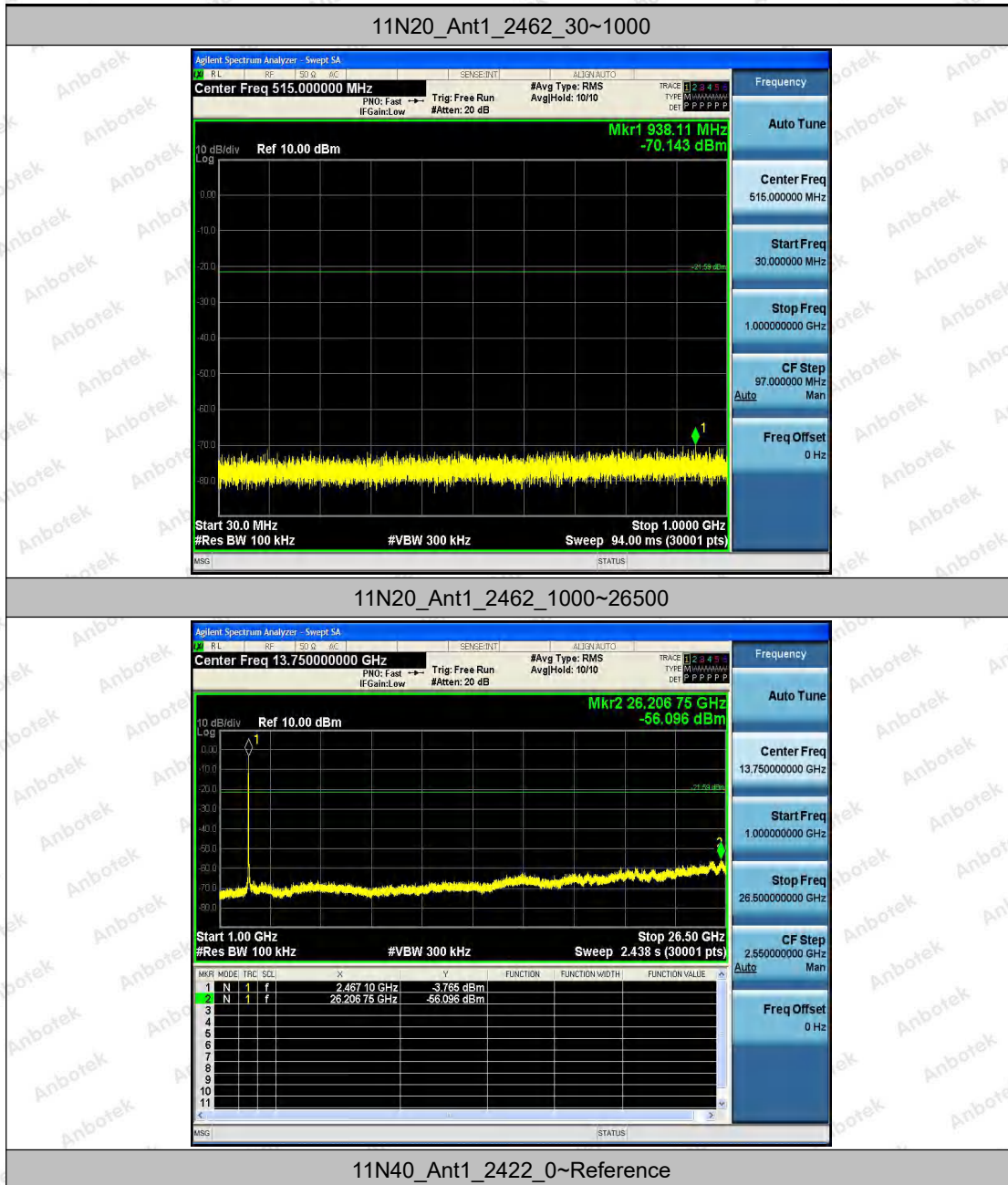


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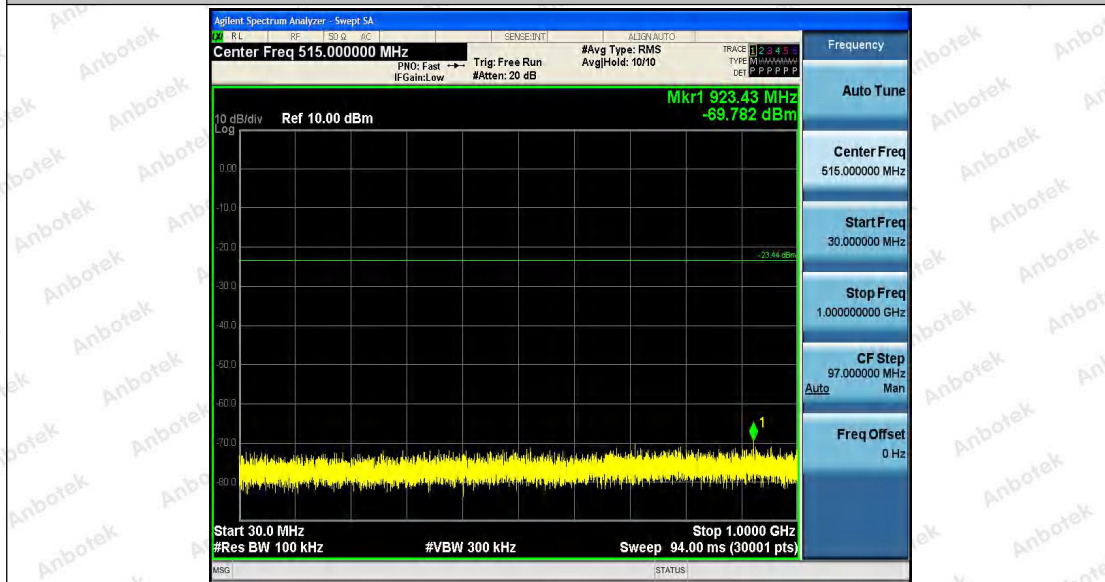
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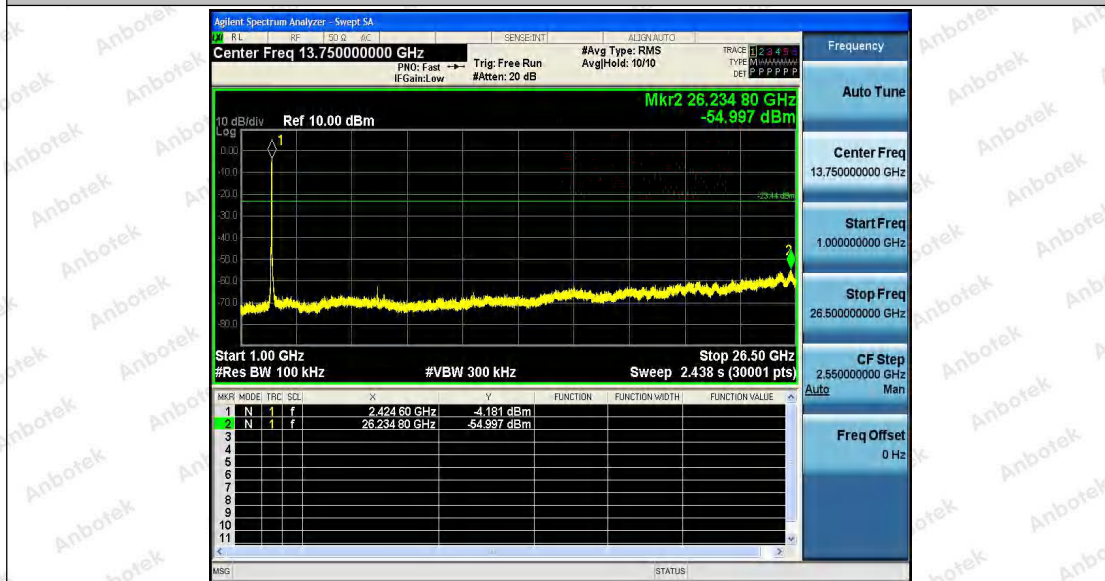
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11N40_Ant1_2422_30~1000



11N40_Ant1_2422_1000~26500



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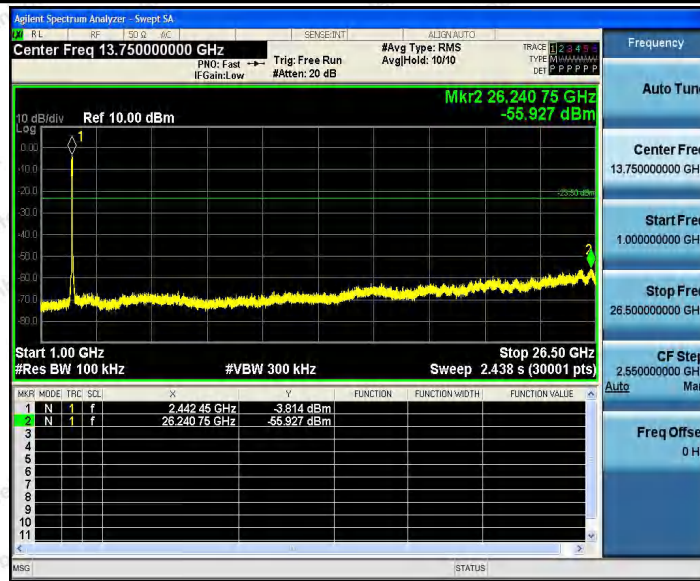
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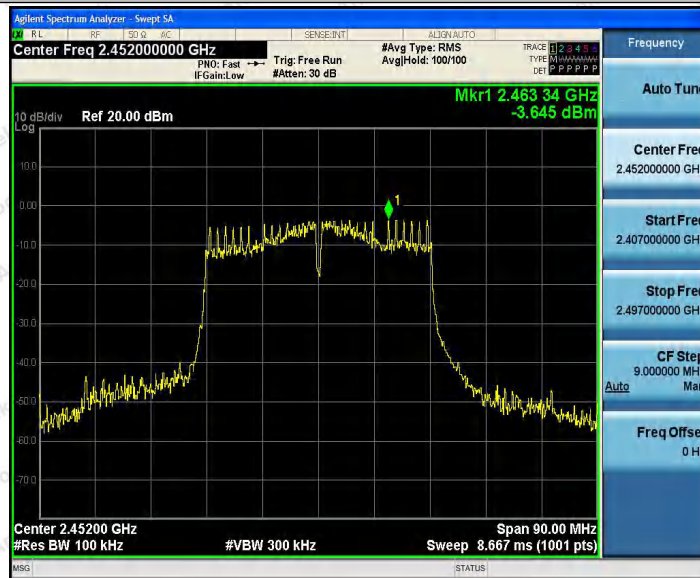
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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

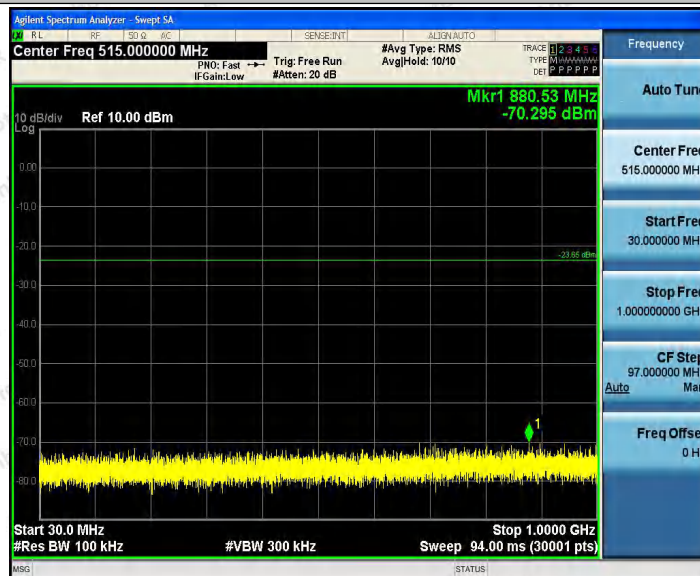
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11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000

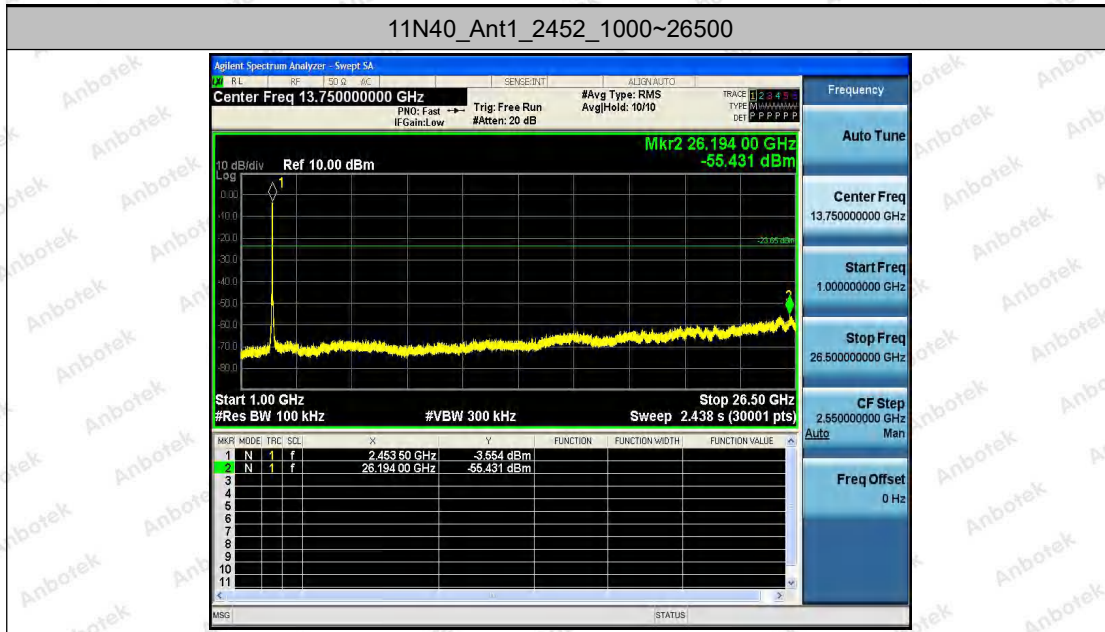


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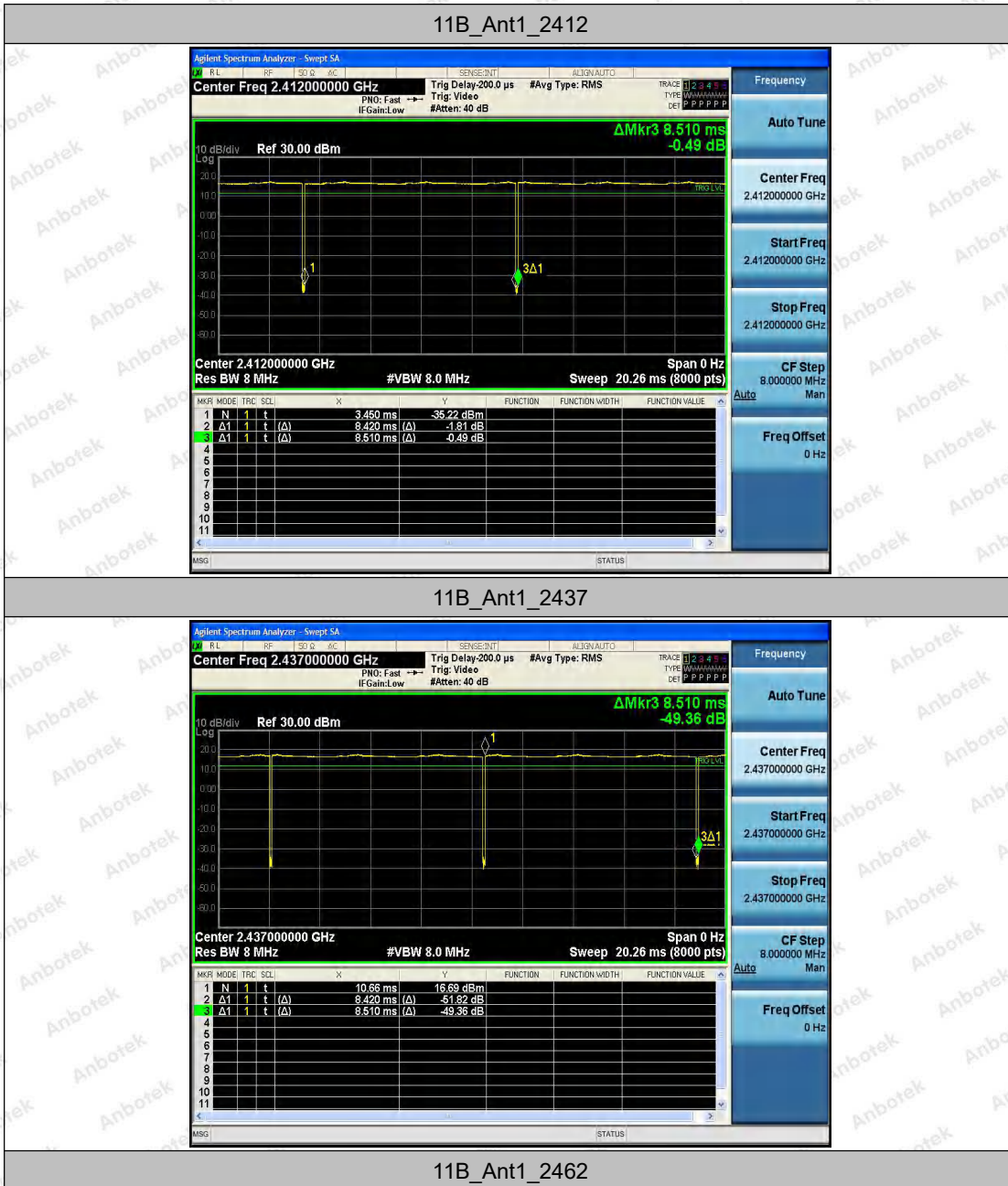
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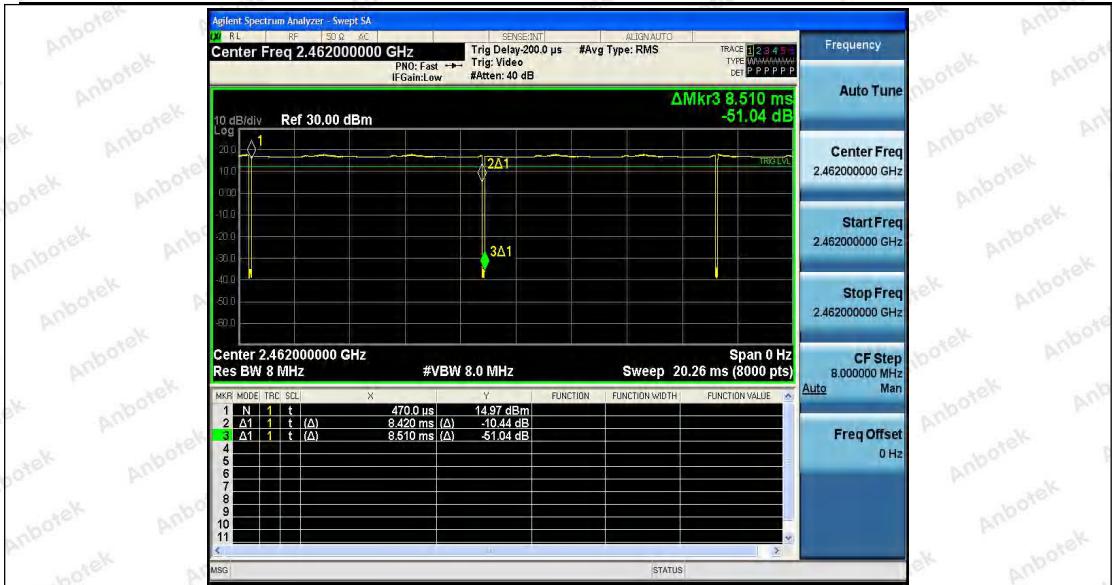
Appendix G: Duty Cycle

Test Result

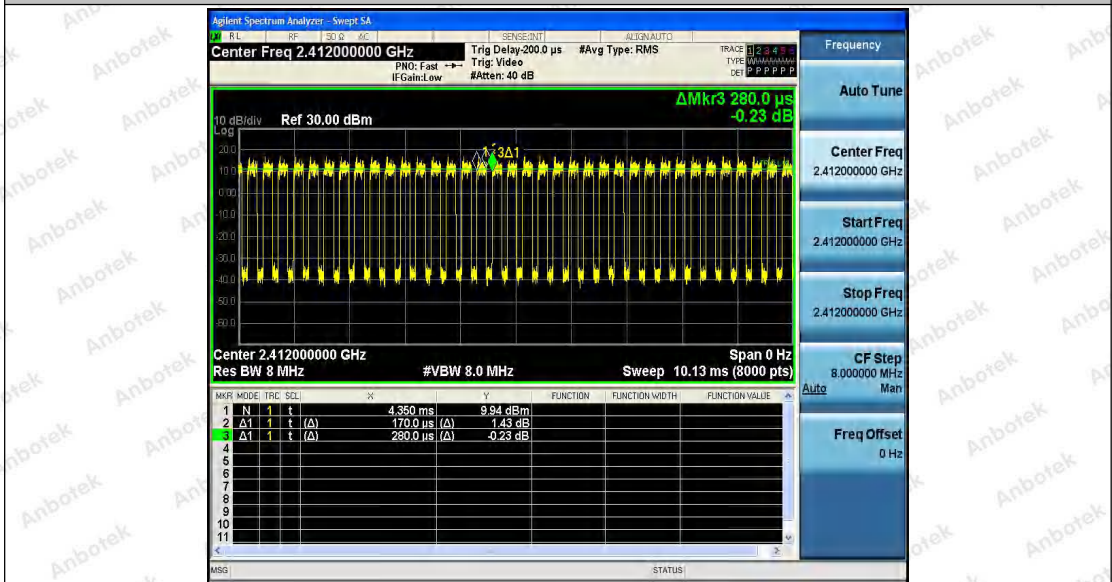
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.42	8.51	98.94	---	PASS
		2437	8.42	8.51	98.94	---	PASS
		2462	8.42	8.51	98.94	---	PASS
11G	Ant1	2412	0.17	0.28	60.71	---	PASS
		2437	0.17	0.28	60.71	---	PASS
		2462	0.18	0.28	64.29	---	PASS
11N20	Ant1	2412	0.16	0.27	59.26	---	PASS
		2437	0.16	0.26	61.54	---	PASS
		2462	0.16	0.27	59.26	---	PASS
11N40	Ant1	2422	0.20	0.40	50.00	---	PASS
		2437	0.40	0.81	49.38	---	PASS
		2452	0.30	0.61	49.18	---	PASS

Test Graphs

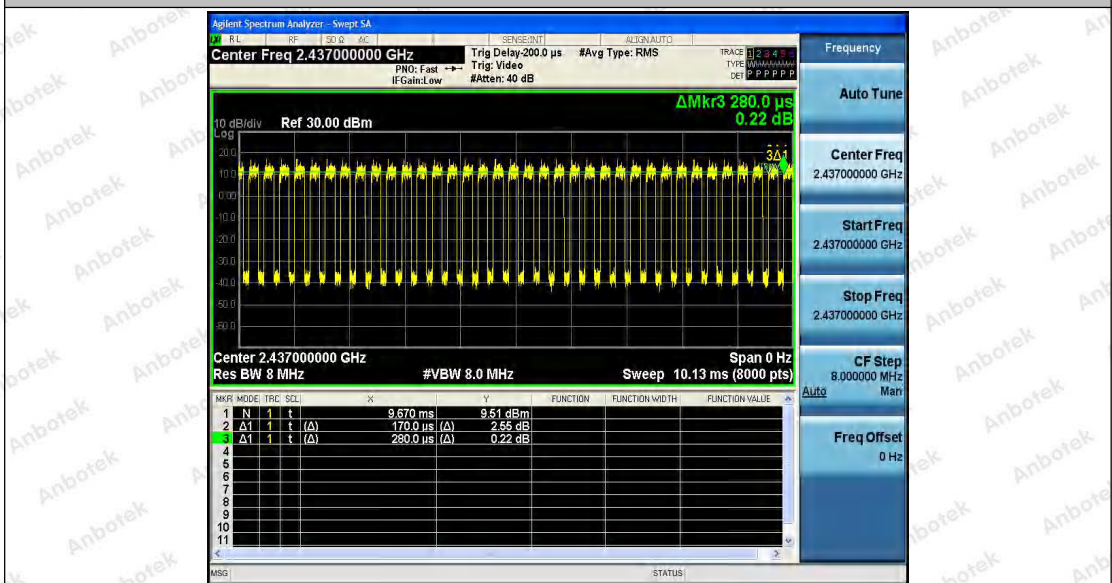




11G_Ant1_2412



11G_Ant1_2437

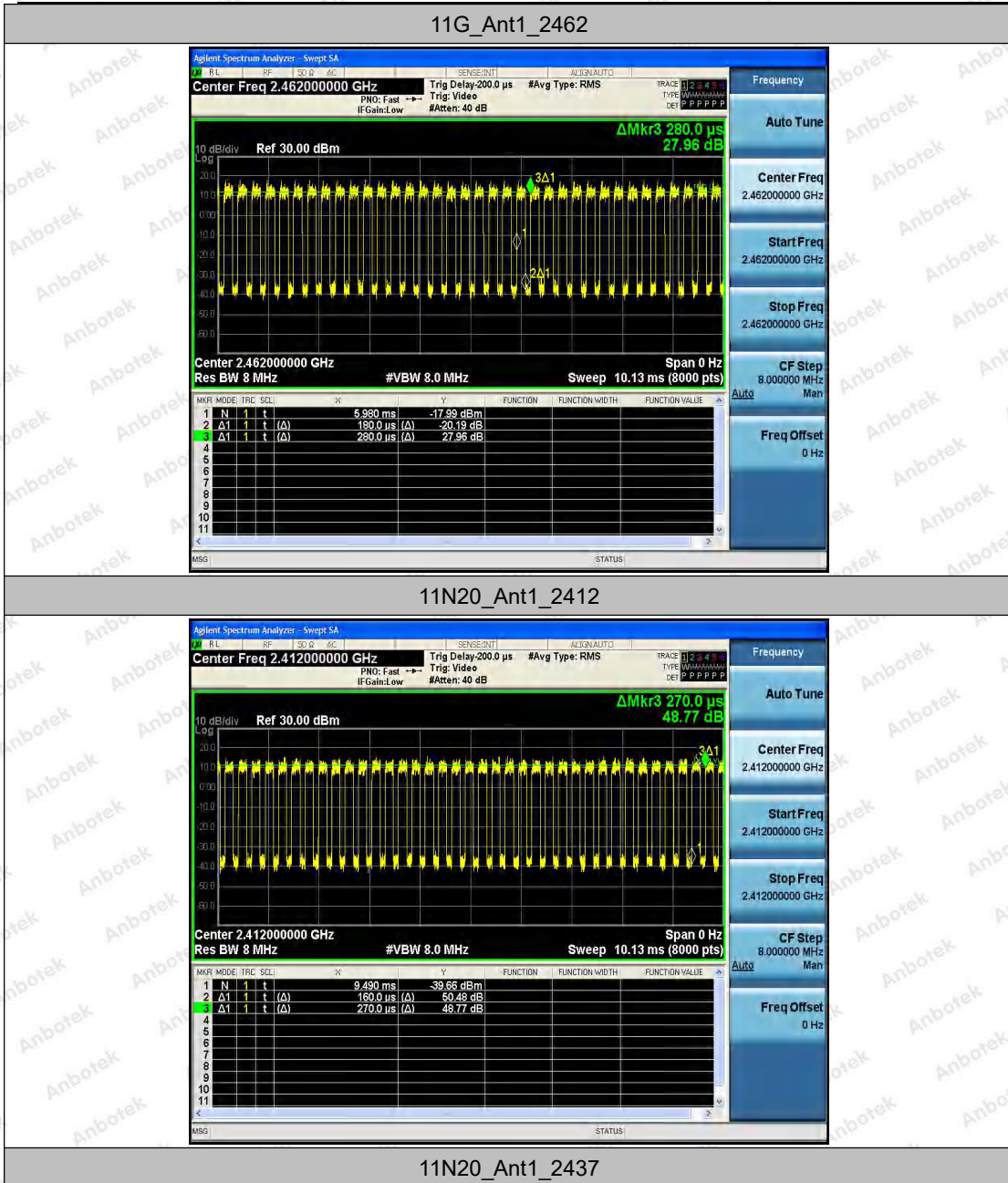


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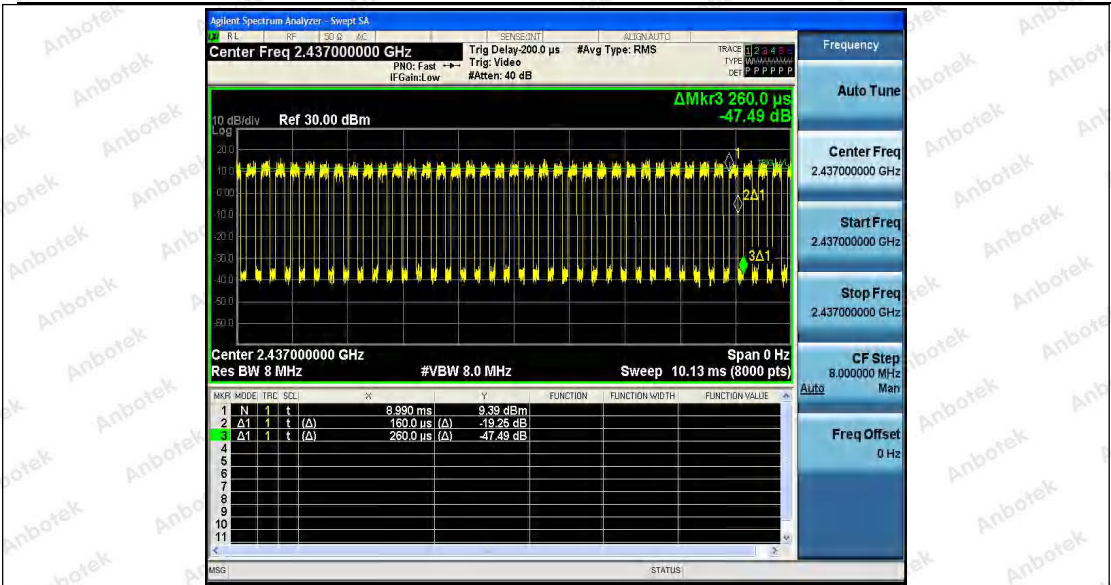


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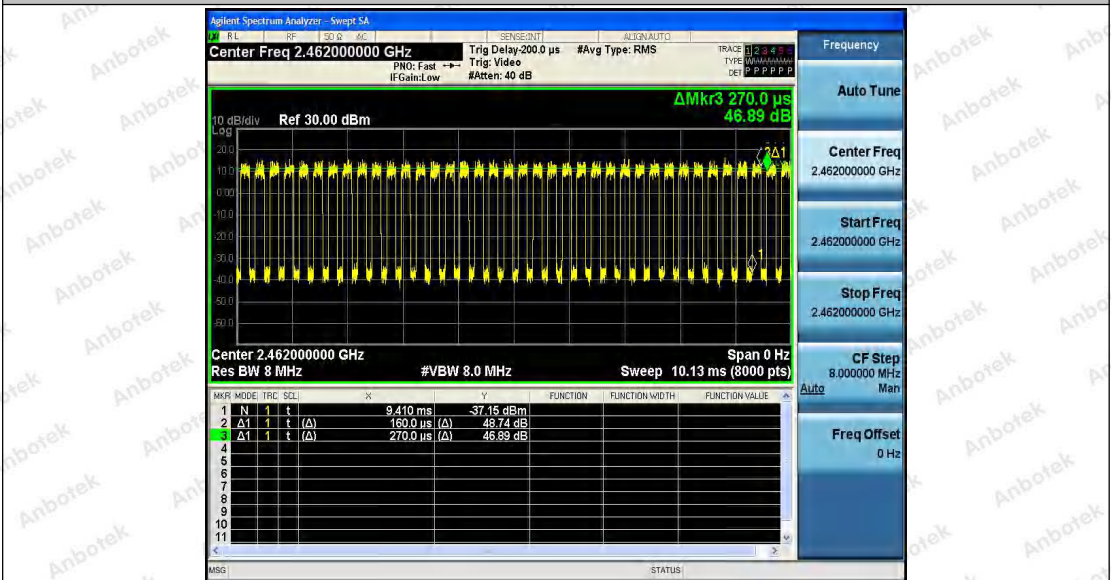
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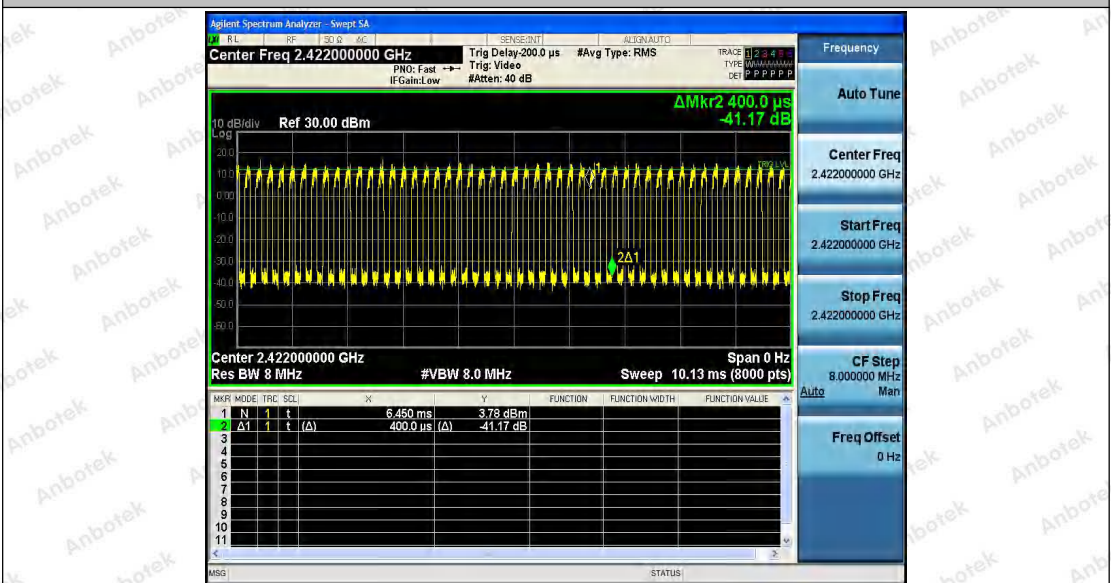
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11N20_Ant1_2462



11N40_Ant1_2422

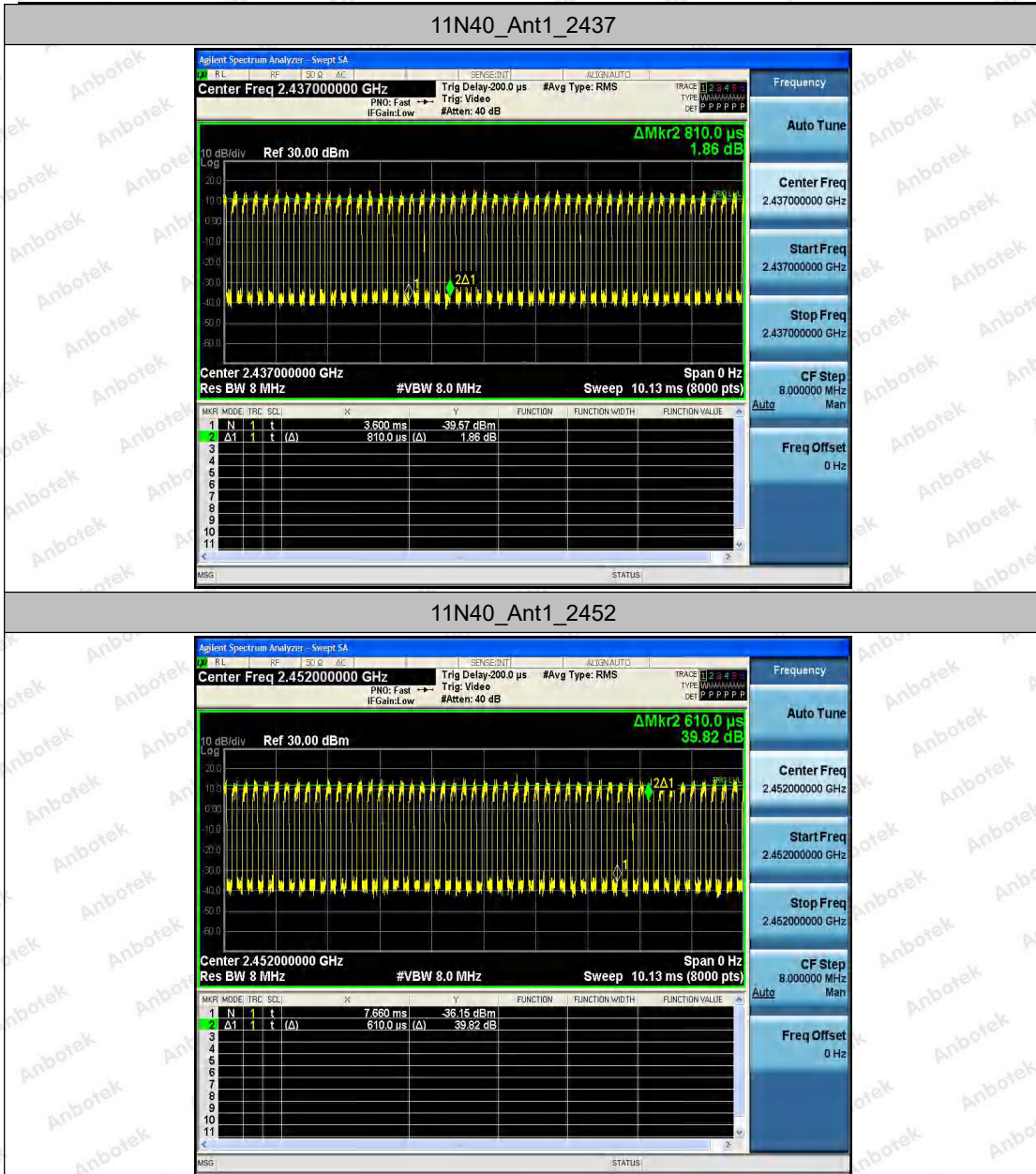


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---End---

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