

Appendix Test Data

Report No:	18220WC30234701	Test Sample NO:	1-2-2
Start Test Date:	2024.01.04	Finish Test Date:	2024.01.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	24.1°C	Relative Humidity:	42%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.480	2408.480	2415.960	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	8.520	2457.480	2466.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.560	2428.720	2445.280	0.5	PASS
		2462	16.440	2453.760	2470.200	0.5	PASS

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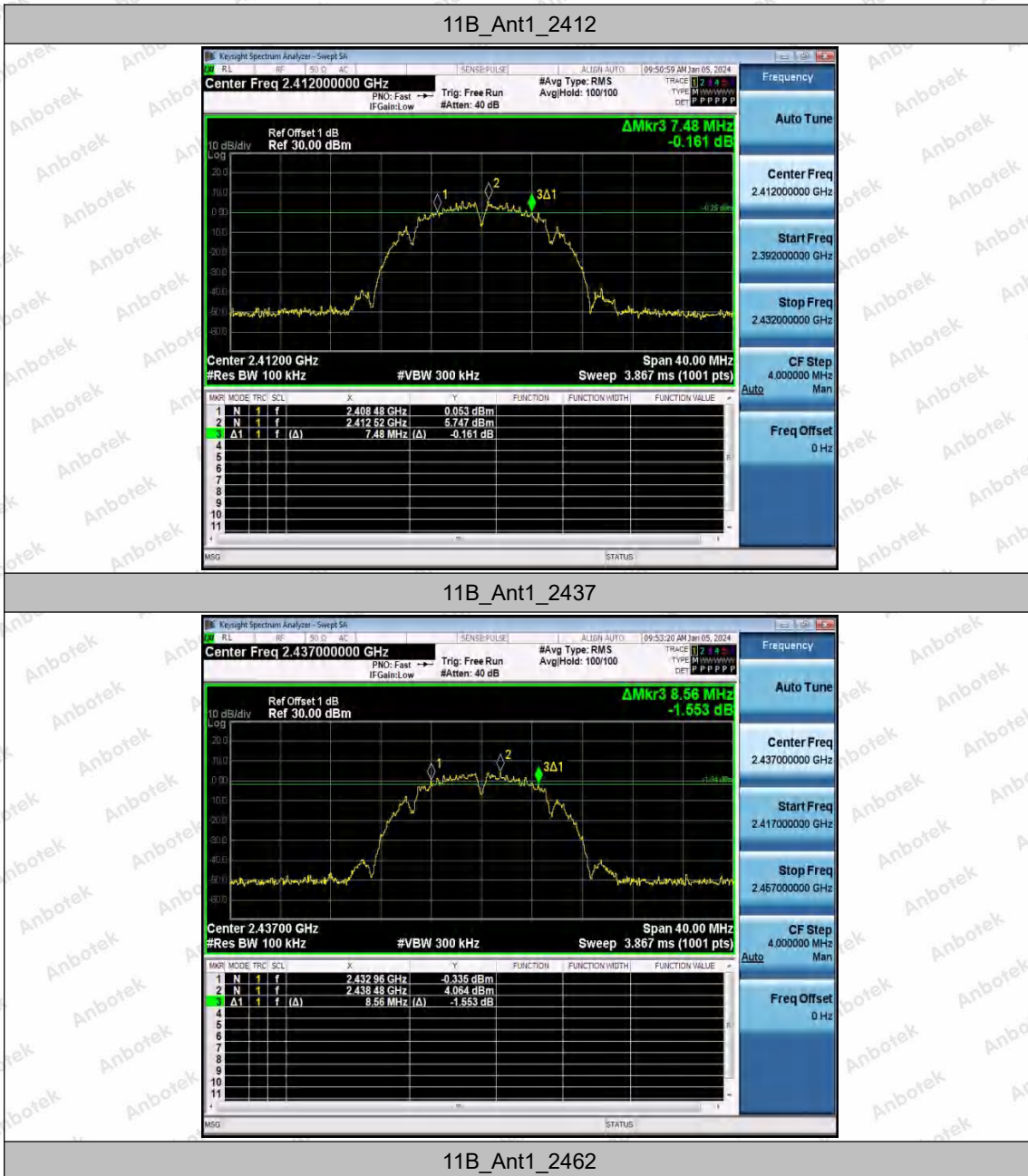
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.121	2405.9380	2418.0590	---	---
		2437	12.122	2430.9341	2443.0561	---	---
		2462	12.111	2455.9407	2468.0517	---	---
11G	Ant1	2412	17.503	2403.2105	2420.7135	---	---
		2437	17.387	2428.2343	2445.6213	---	---
		2462	17.344	2453.2628	2470.6068	---	---

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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

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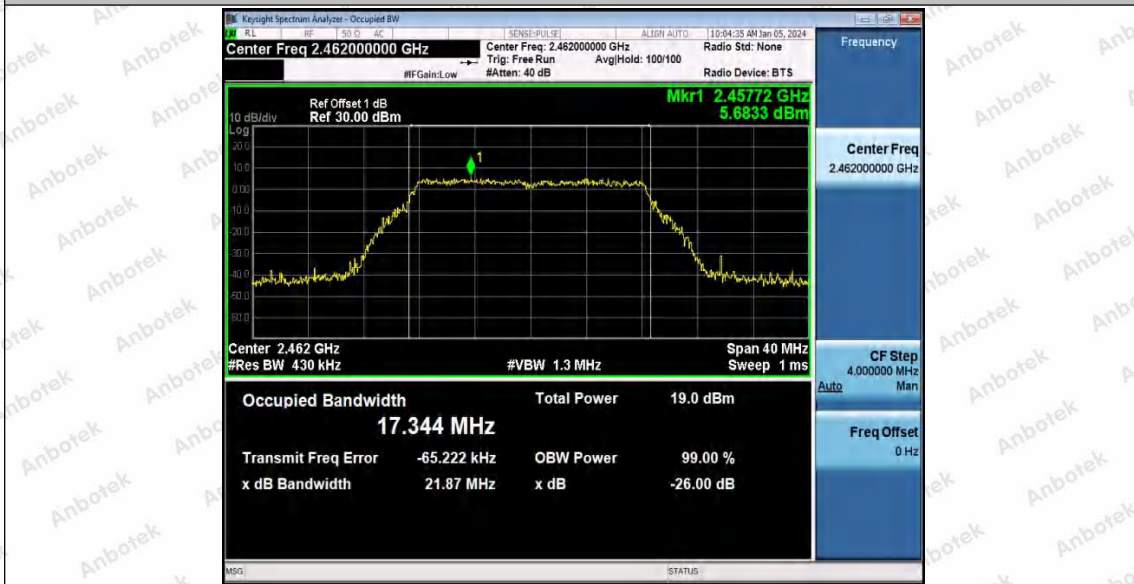


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11G_Ant1_2462



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Appendix C: Maximum conducted output power

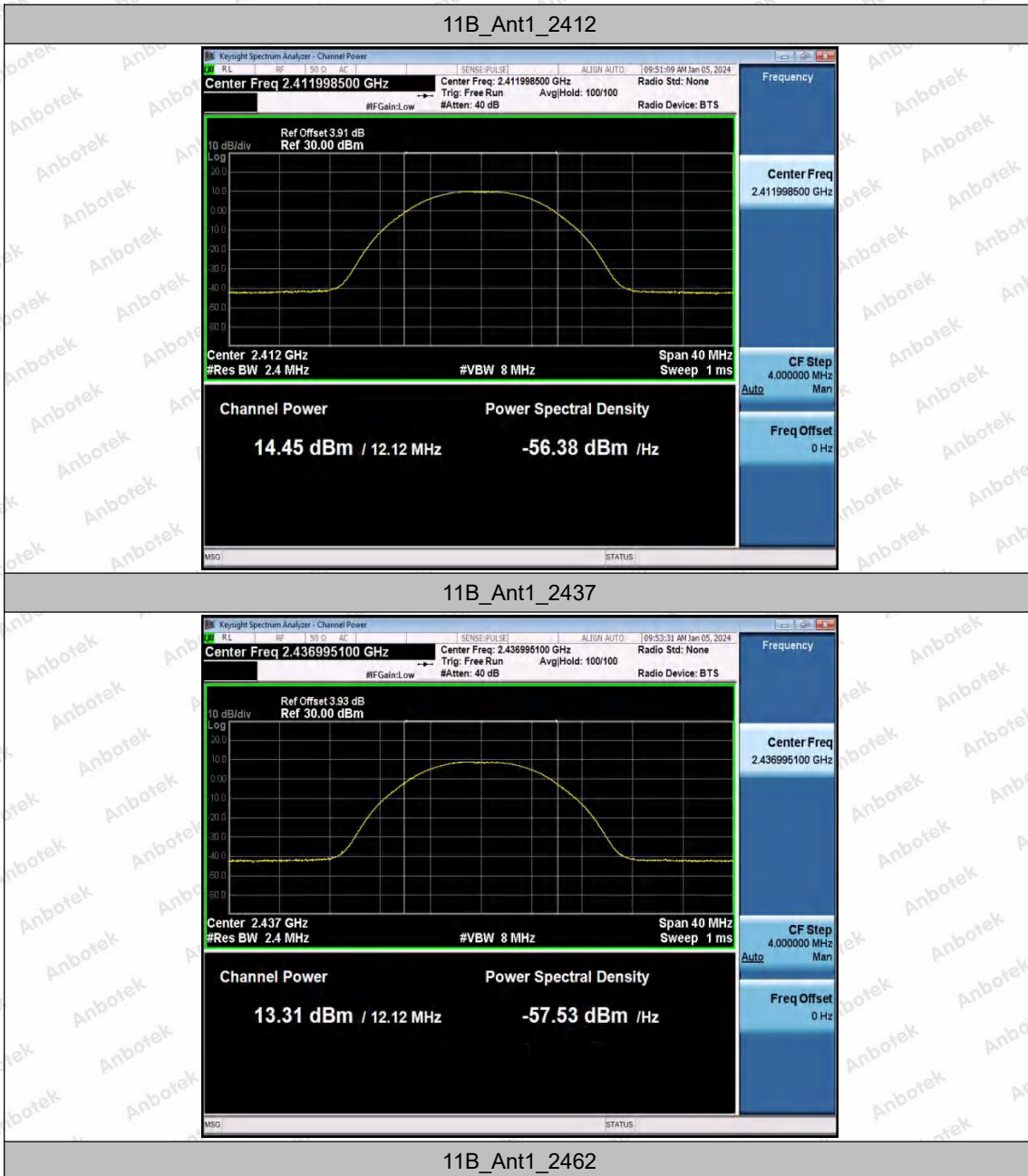
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.45	≤30.00
		2437	13.31	≤30.00
		2462	12.72	≤30.00
11G	Ant1	2412	13.82	≤30.00
		2437	12.94	≤30.00
		2462	12.92	≤30.00

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



Test Graphs

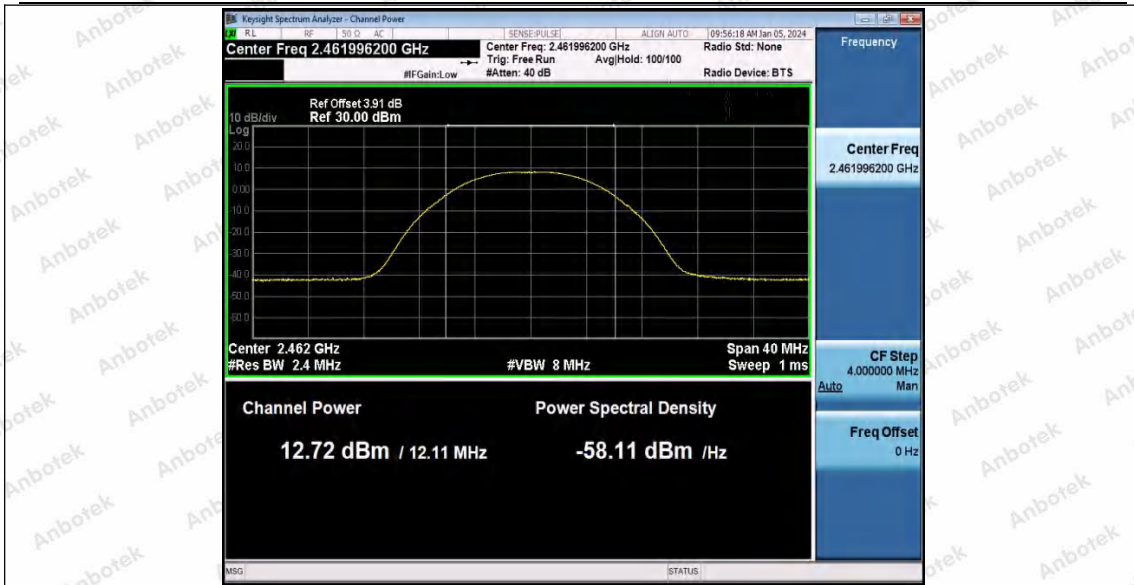


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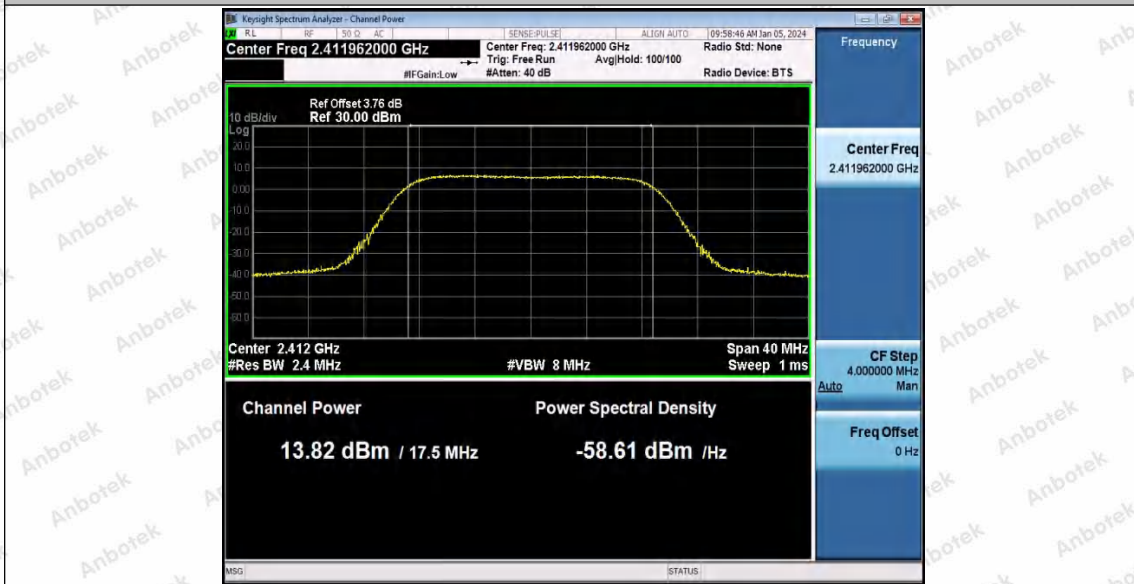
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11G_Ant1_2412



11G_Ant1_2437

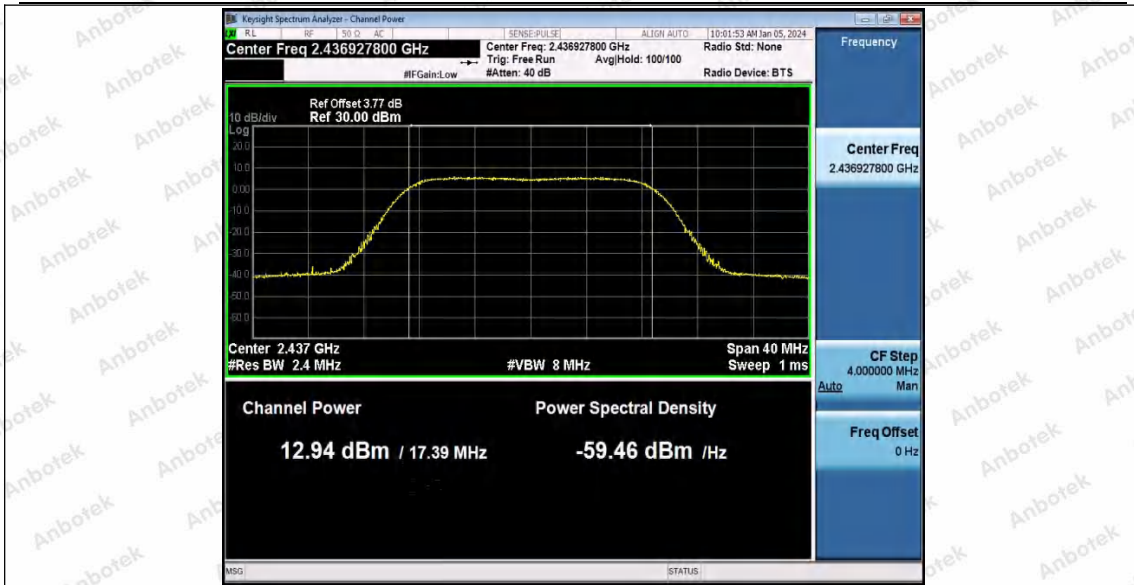
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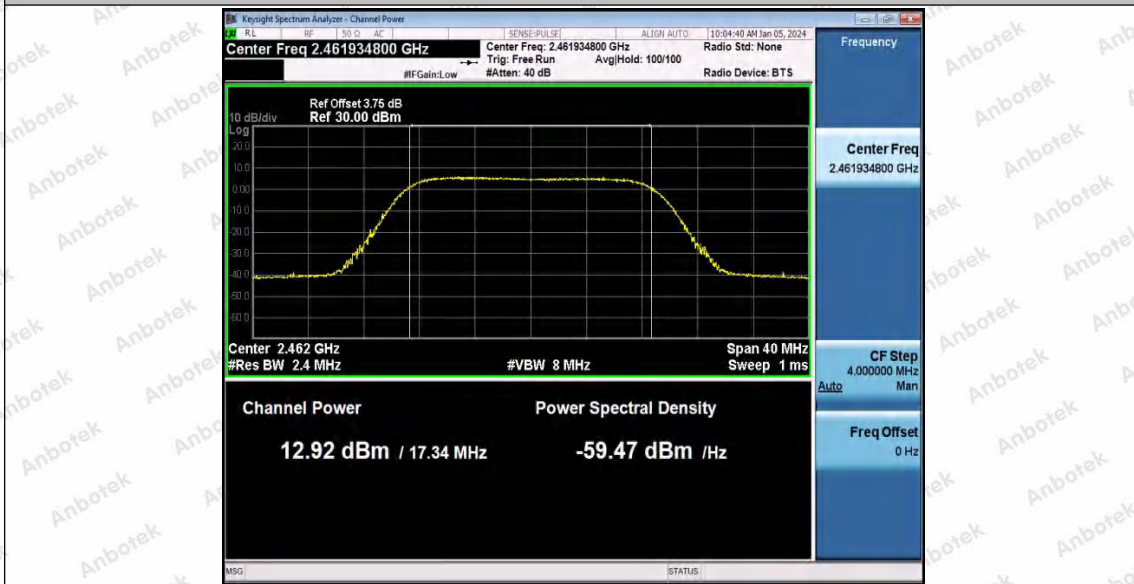


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11G_Ant1_2462



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Appendix D: Maximum power spectral density

Test Result

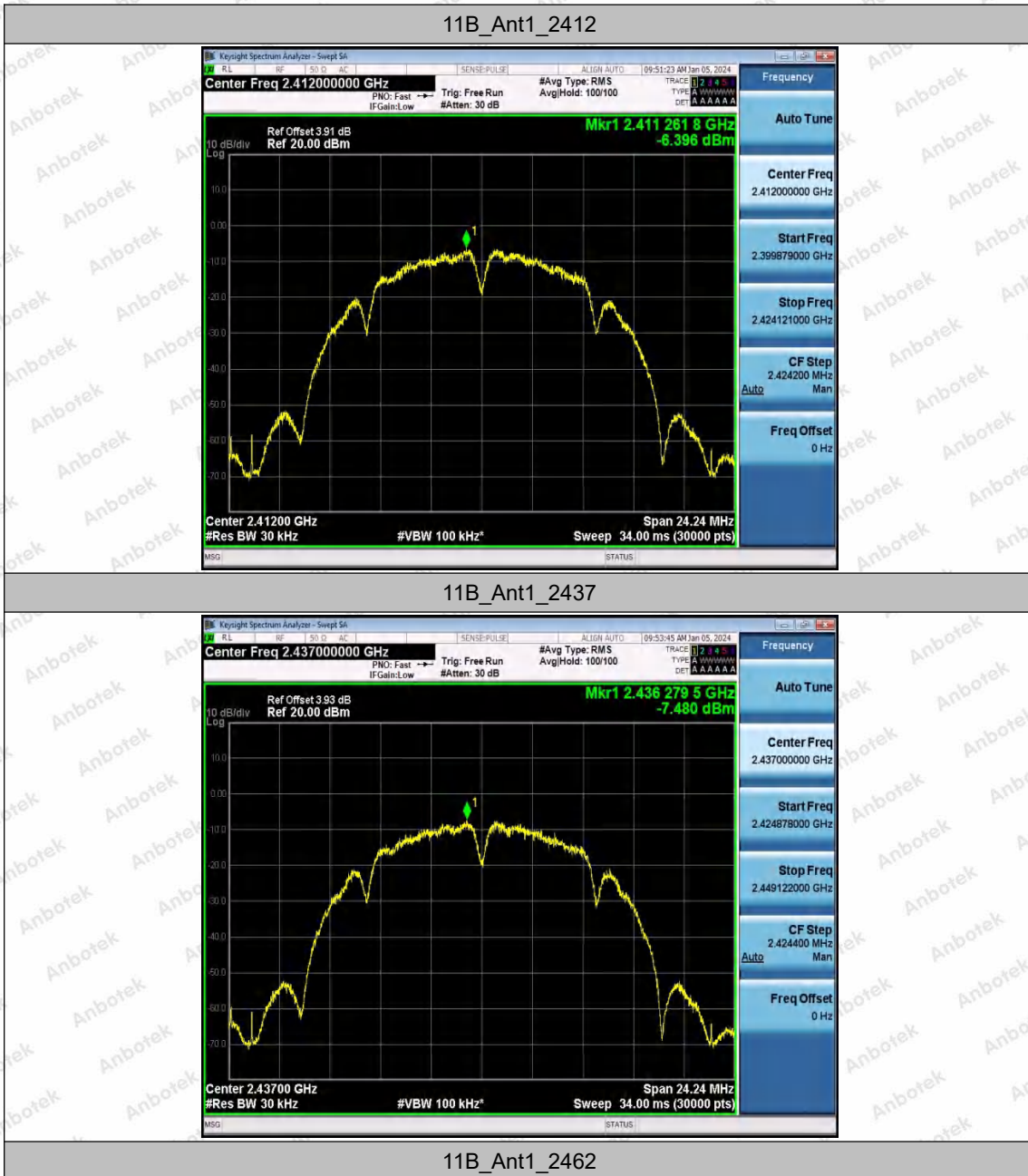
TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.40	-16.40	≤8.00	PASS
		2437	-7.48	-17.48	≤8.00	PASS
		2462	-7.62	-17.62	≤8.00	PASS
11G	Ant1	2412	-9.95	-19.95	≤8.00	PASS
		2437	-9.83	-19.83	≤8.00	PASS
		2462	-11.00	-21.00	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

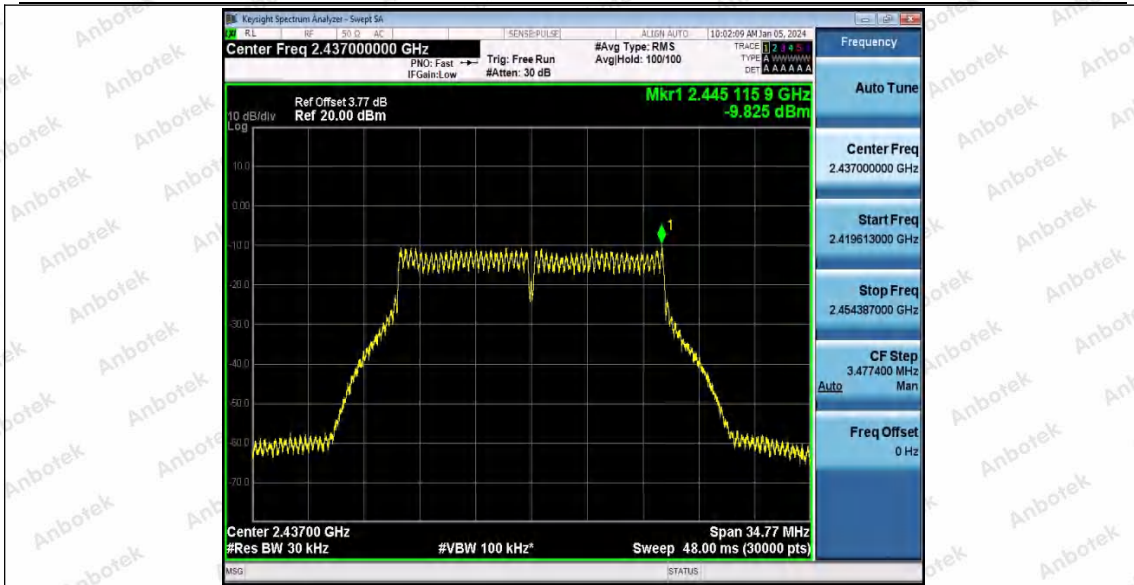
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11G_Ant1_2462



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Appendix E: Band edge measurements

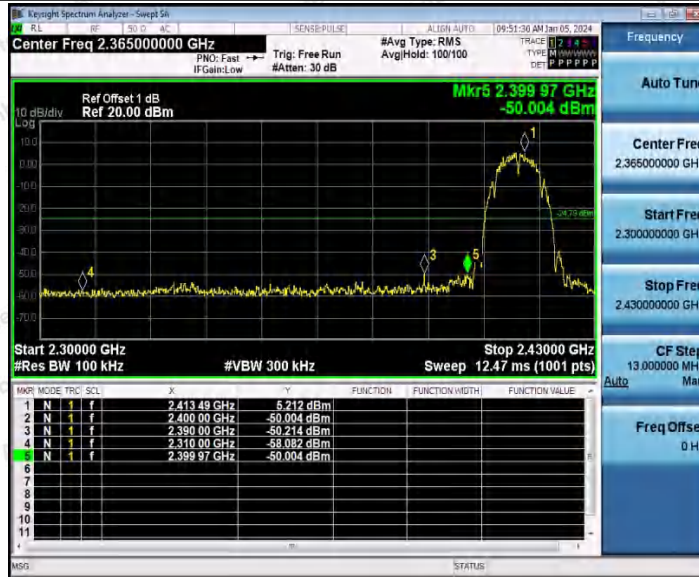
Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.21	-50.00	≤-24.79	PASS
		High	2462	4.41	-54.30	≤-25.59	PASS
11G	Ant1	Low	2412	0.32	-36.77	≤-29.68	PASS
		High	2462	1.17	-49.16	≤-28.84	PASS

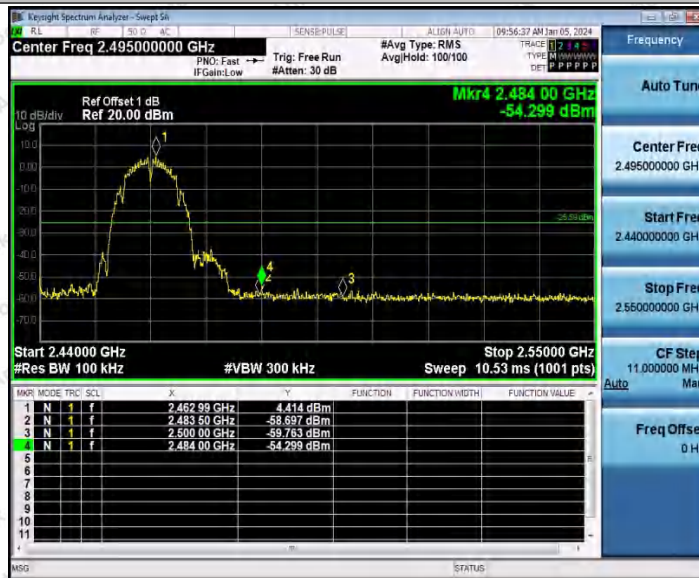


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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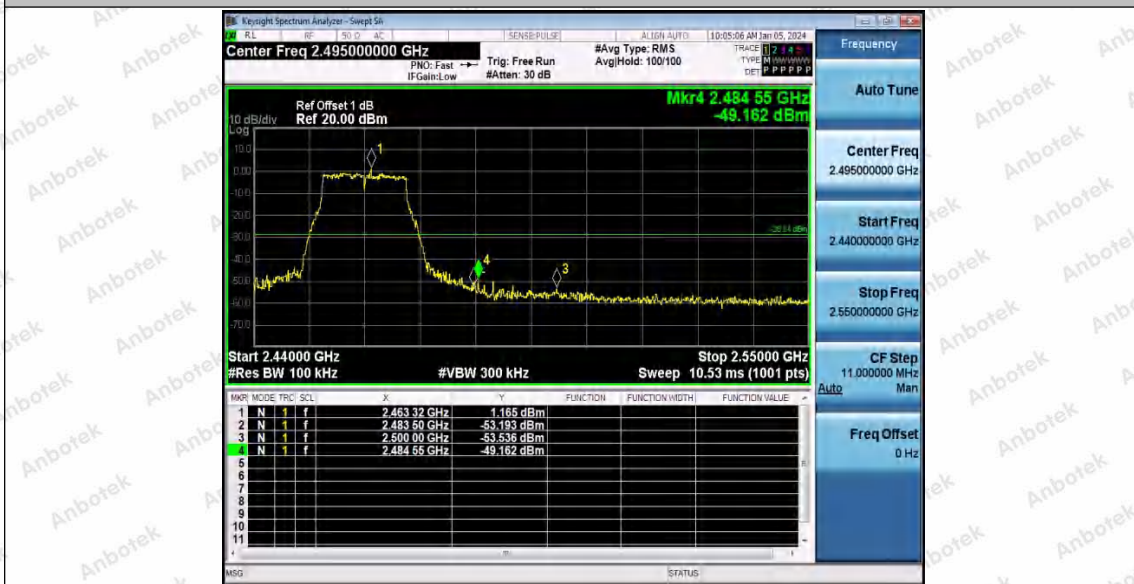
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11G_Ant1_High_2462



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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	5.36	5.36	---	PASS
			30~1000	5.36	-64.84	≤-24.64	PASS
			1000~26500	5.36	-38.32	≤-24.64	PASS
		2437	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-65.64	≤-27.08	PASS
			1000~26500	2.92	-41.23	≤-27.08	PASS
		2462	Reference	2.69	2.69	---	PASS
			30~1000	2.69	-65.42	≤-27.31	PASS
			1000~26500	2.69	-34.18	≤-27.31	PASS
11G	Ant1	2412	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-48.06	≤-30.48	PASS
			1000~26500	-0.48	-41.09	≤-30.48	PASS
		2437	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-65.38	≤-30.45	PASS
			1000~26500	-0.45	-45.16	≤-30.45	PASS
		2462	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-65.47	≤-31.41	PASS
			1000~26500	-1.41	-38.74	≤-31.41	PASS

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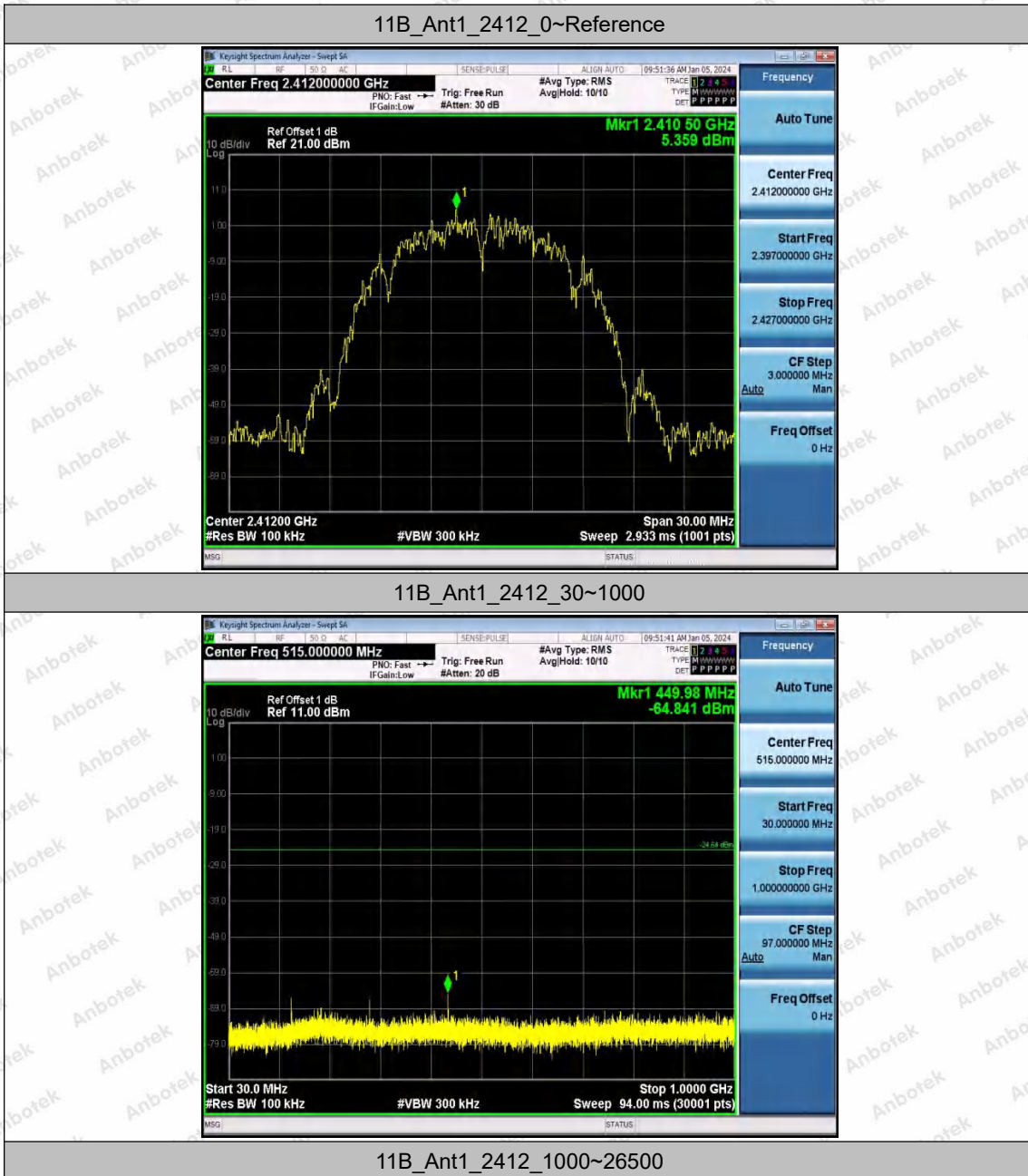
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Test Graphs

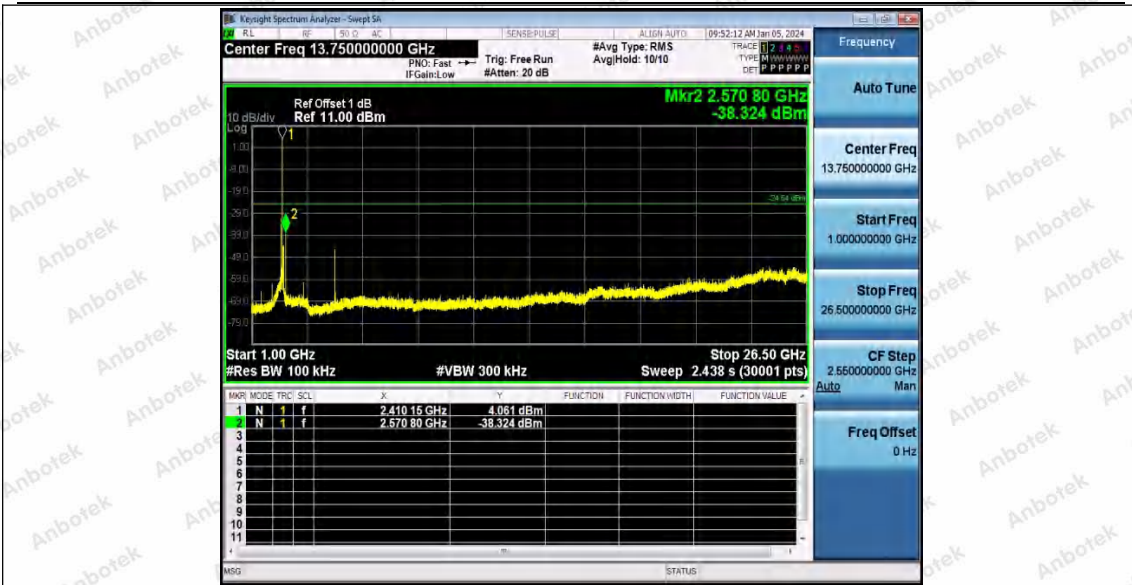


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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

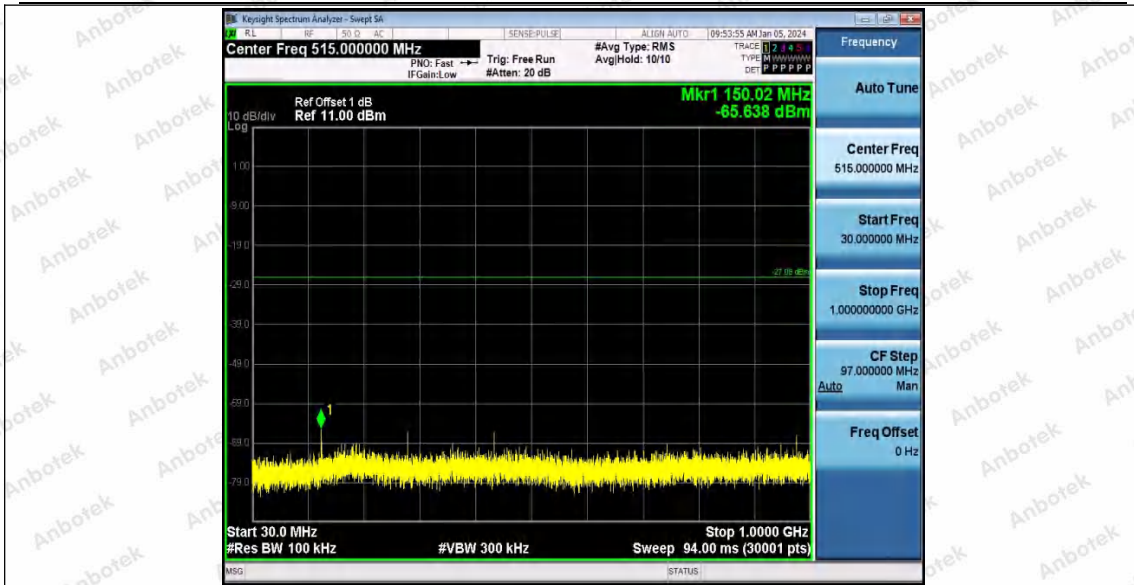
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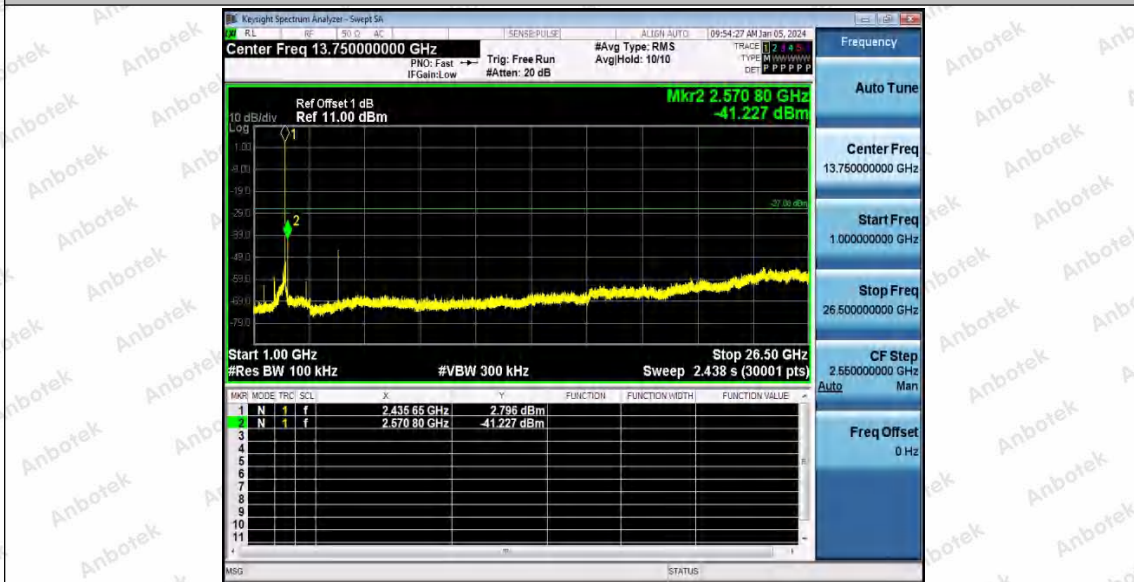


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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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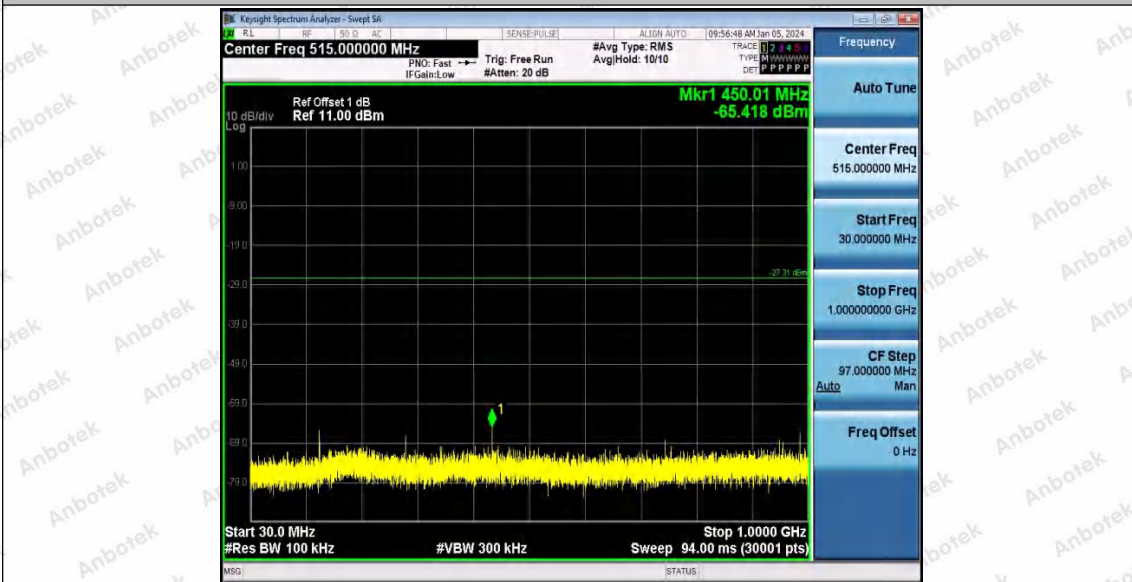
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11B_Ant1_2462_30~1000



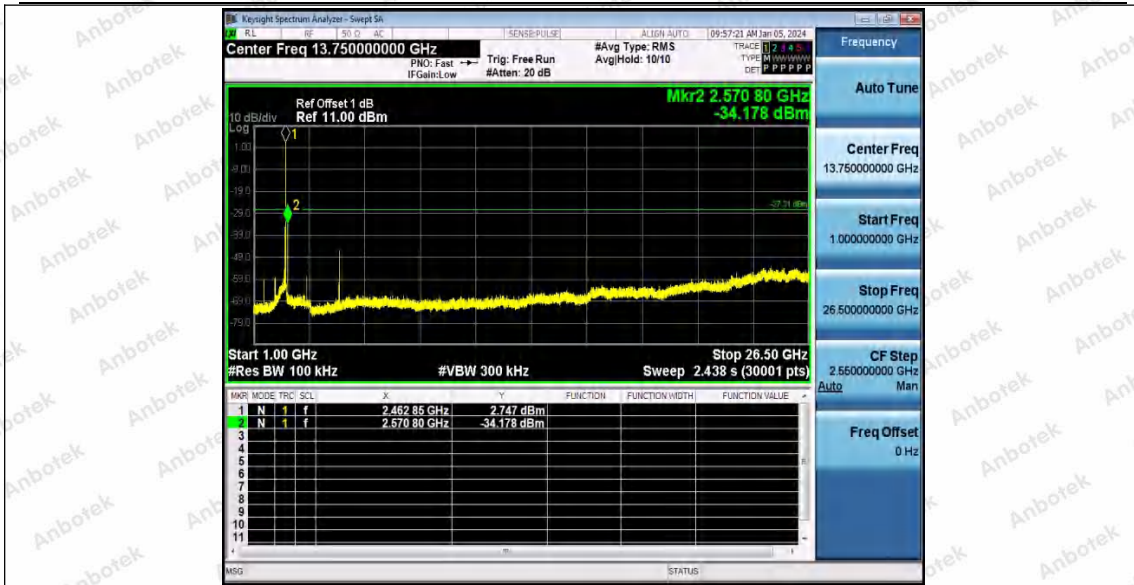
11B_Ant1_2462_1000~26500

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11G_Ant1_2412_0~Reference



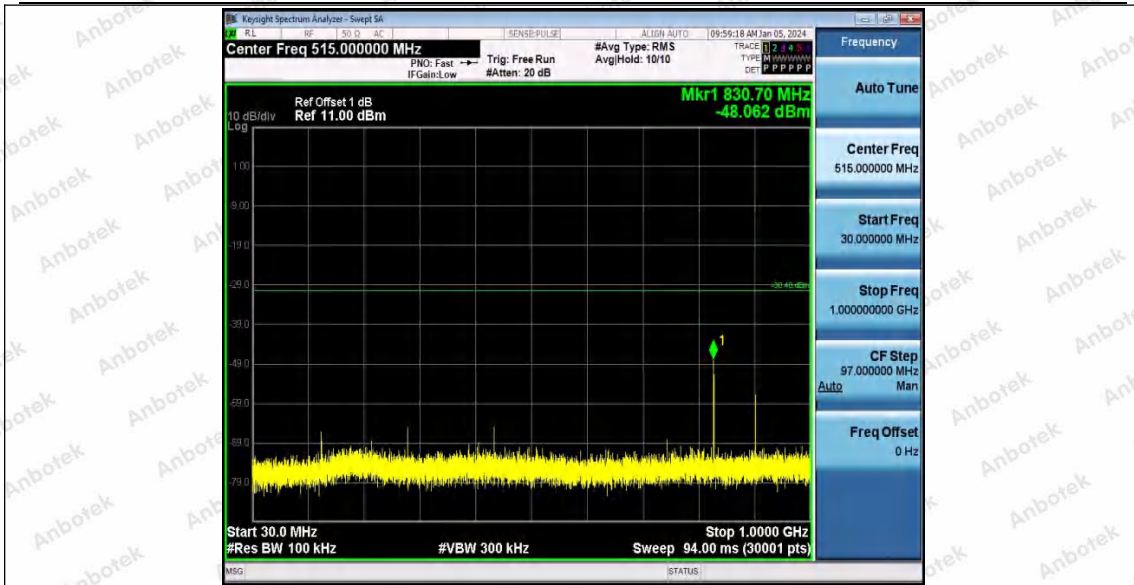
11G_Ant1_2412_30~1000

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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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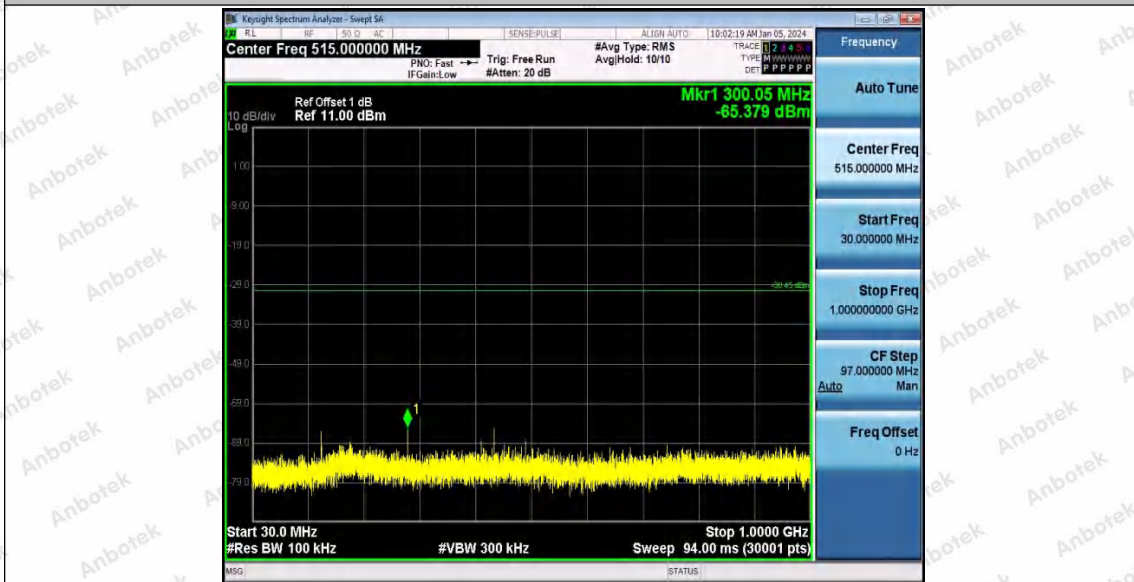
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11G_Ant1_2437_30~1000



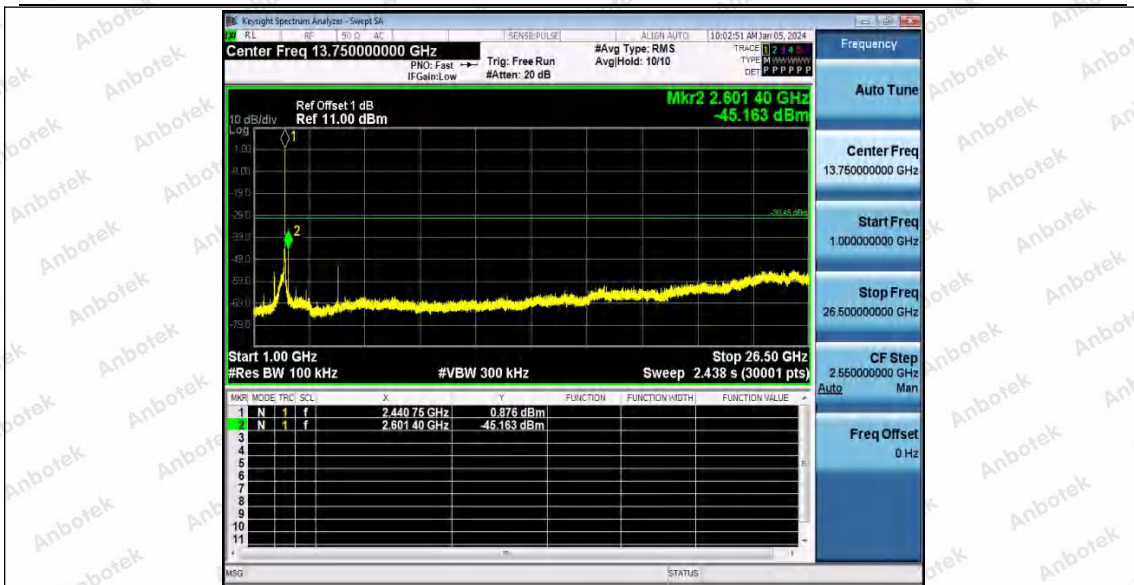
11G_Ant1_2437_1000~26500

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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

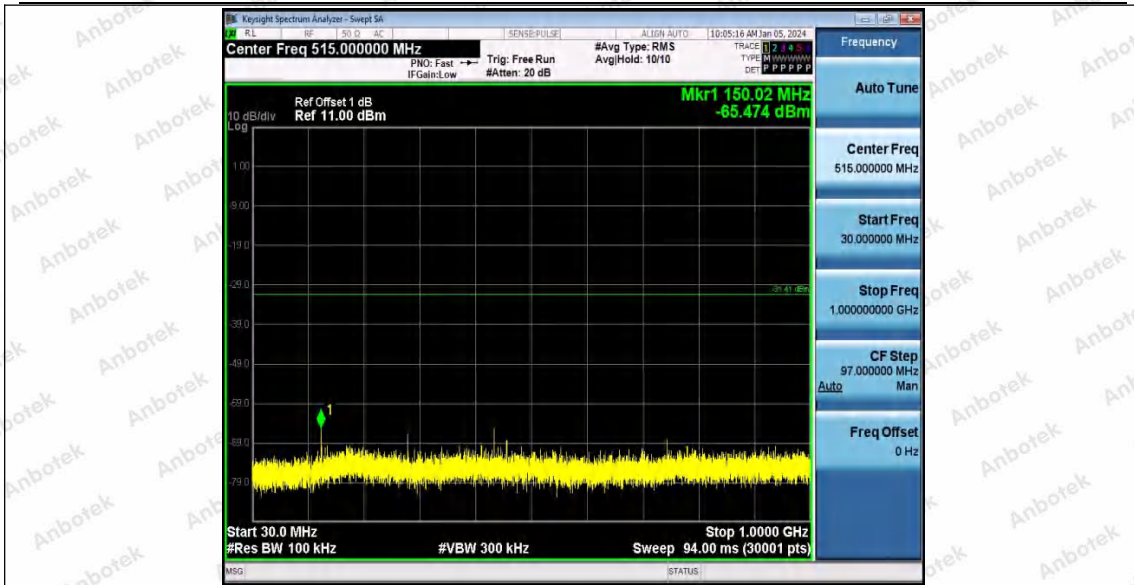
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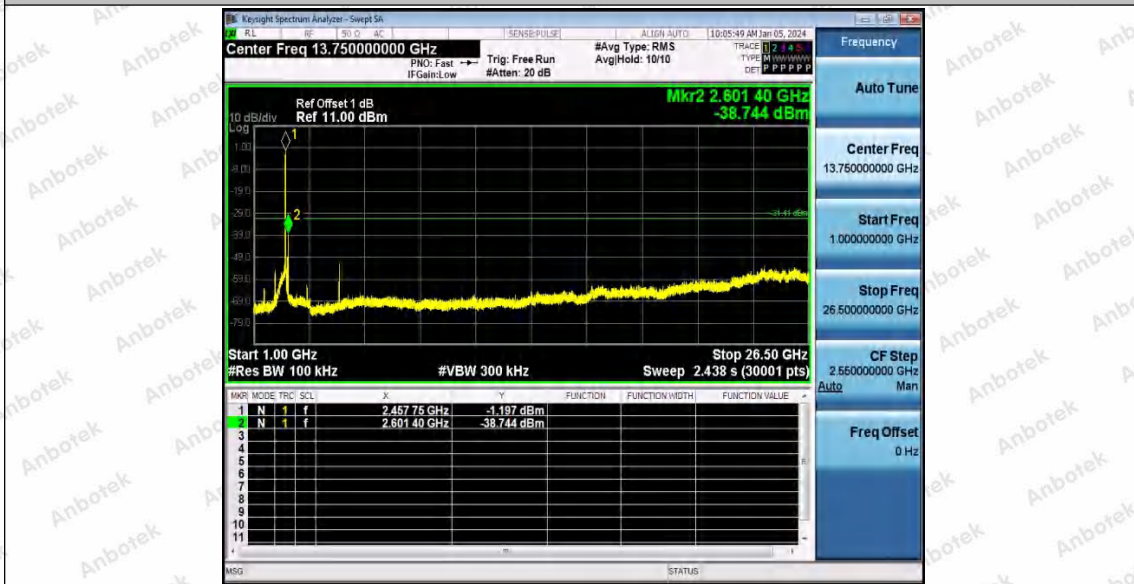


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11G_Ant1_2462_1000~26500



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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	12.45	24.35	51.13	2.91
		2437	12.40	24.35	50.92	2.93
		2462	12.45	24.35	51.13	2.91
11G	Ant1	2412	5.48	10.34	53.00	2.76
		2437	5.48	10.36	52.90	2.77
		2462	5.50	10.36	53.09	2.75

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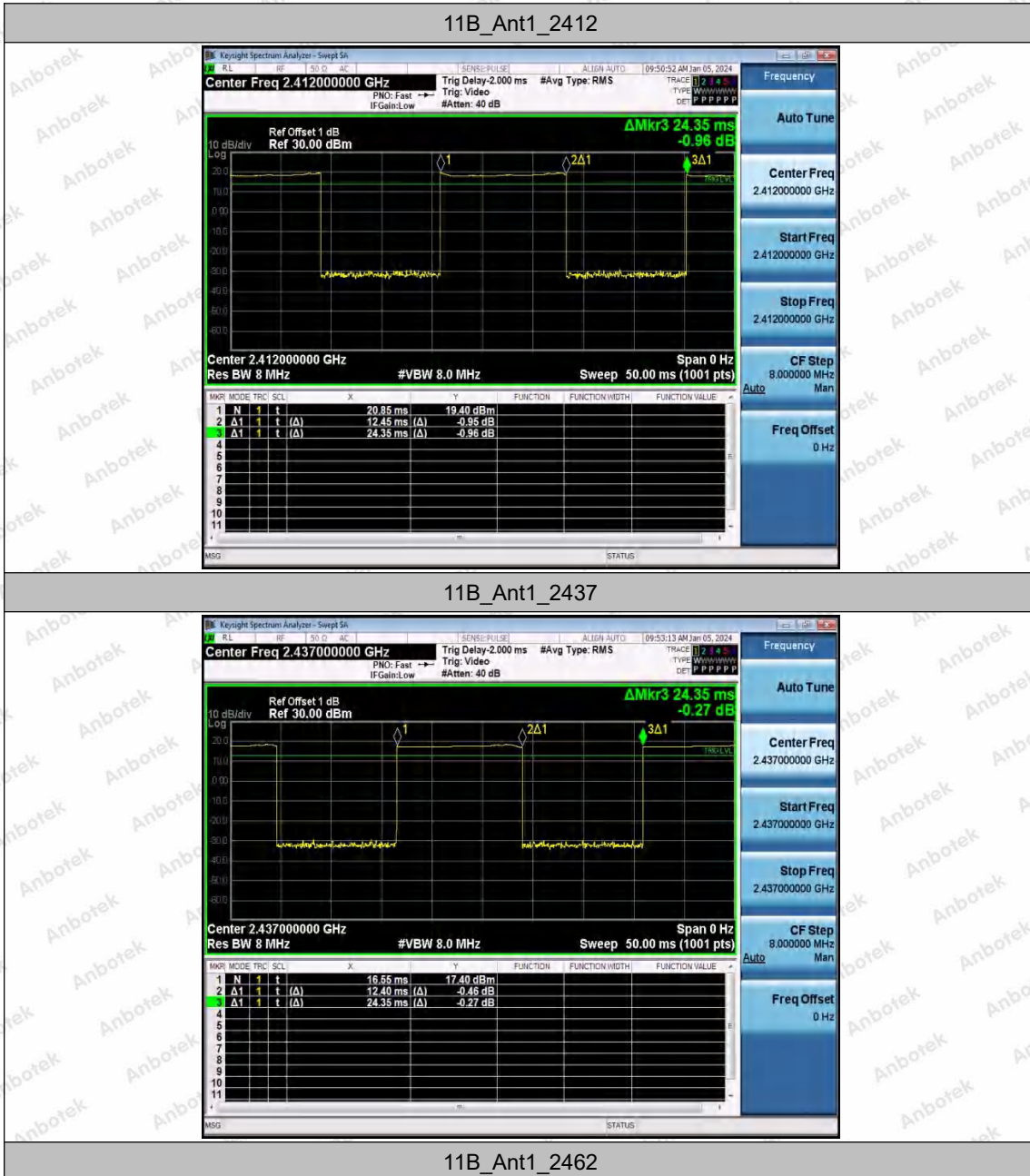
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

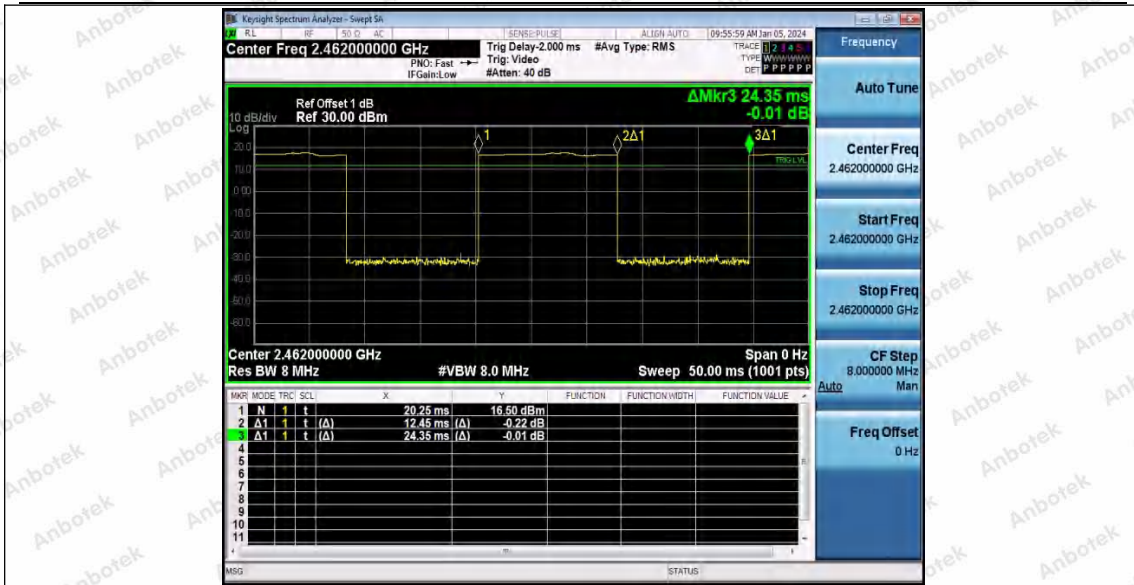


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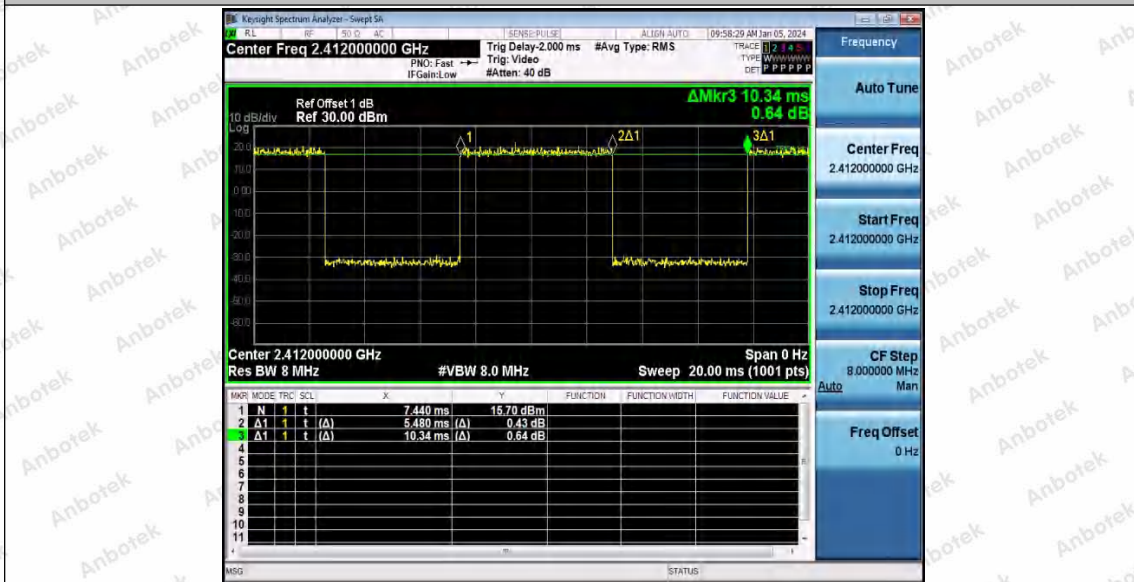


Test Graphs





11G_Ant1_2412



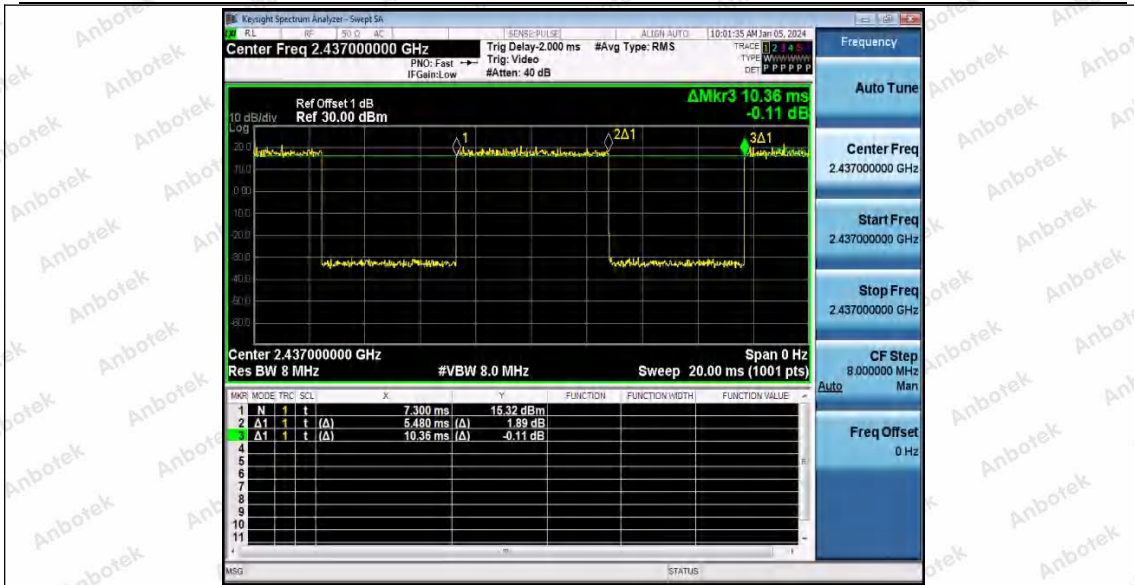
11G_Ant1_2437

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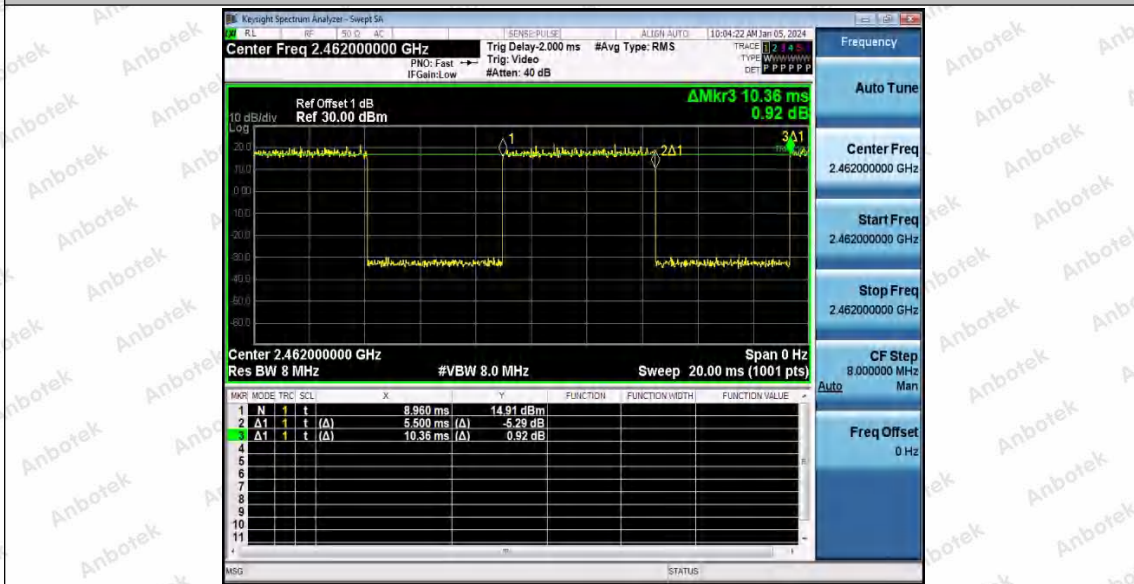
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11G_Ant1_2462



---End---

