

Appendix Test Data

Report No.:	18220WC30226601	Test Sample No.:	1-2-2
Start Test Date:	2023.11.01	Finish Test Date:	2023.11.23
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.8°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

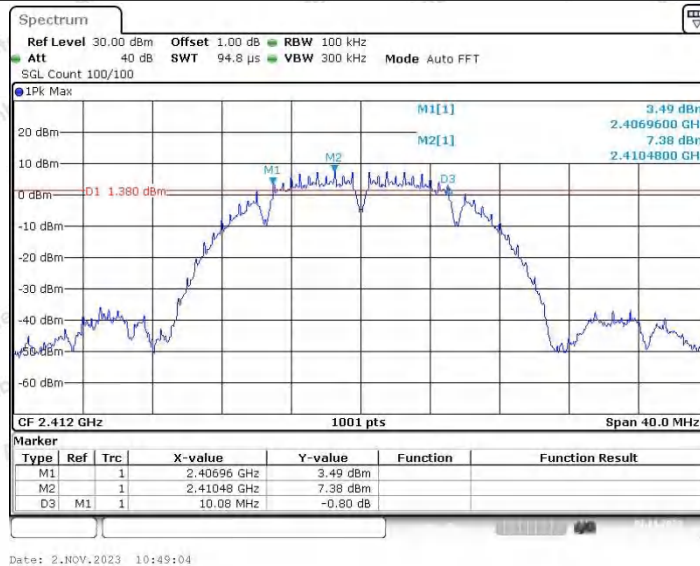
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	2406.96	2417.04	≥0.5	PASS
	Ant2	2412	10.08	2406.96	2417.04	≥0.5	PASS
	Ant1	2437	12.08	2430.96	2443.04	≥0.5	PASS
	Ant2	2437	9.84	2432.00	2441.84	≥0.5	PASS
	Ant1	2462	11.08	2455.96	2467.04	≥0.5	PASS
	Ant2	2462	10.08	2456.96	2467.04	≥0.5	PASS
11G	Ant1	2412	16.52	2403.72	2420.24	≥0.5	PASS
	Ant2	2412	16.32	2403.84	2420.16	≥0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	≥0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	≥0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	≥0.5	PASS
	Ant2	2462	16.32	2453.84	2470.16	≥0.5	PASS
11N20SISO	Ant1	2412	17.28	2403.24	2420.52	≥0.5	PASS
	Ant2	2412	17.16	2403.24	2420.40	≥0.5	PASS
	Ant1	2437	17.52	2428.24	2445.76	≥0.5	PASS
	Ant2	2437	17.28	2428.48	2445.76	≥0.5	PASS
	Ant1	2462	17.60	2453.20	2470.80	≥0.5	PASS
	Ant2	2462	16.92	2453.48	2470.40	≥0.5	PASS

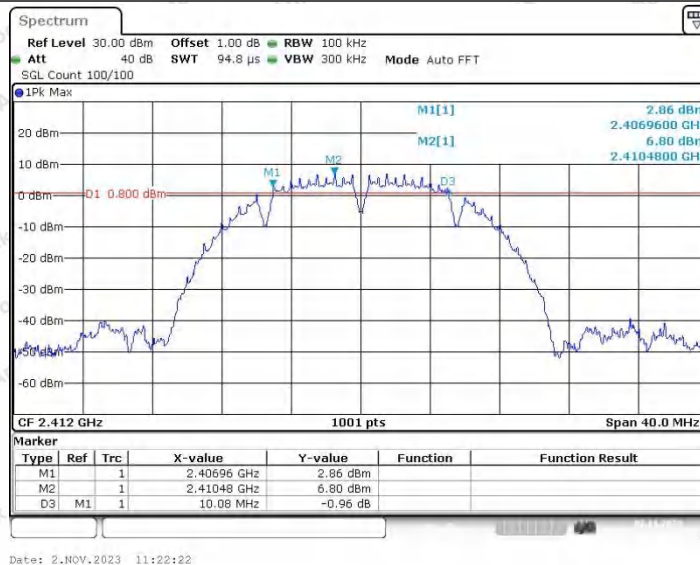


Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

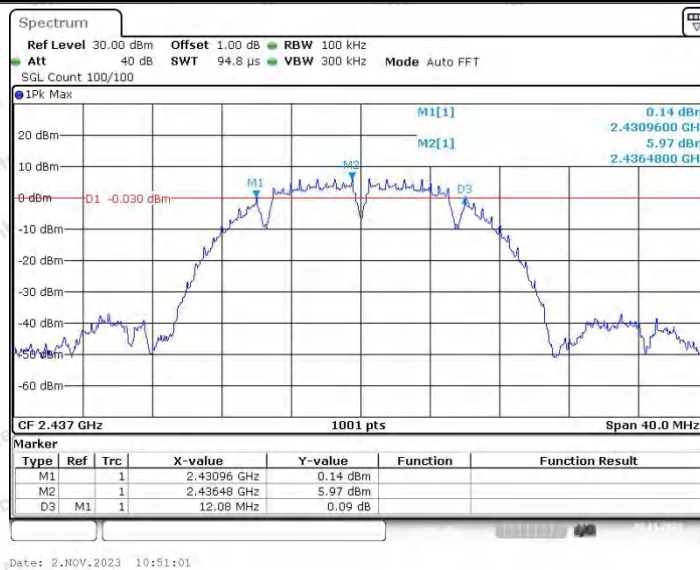
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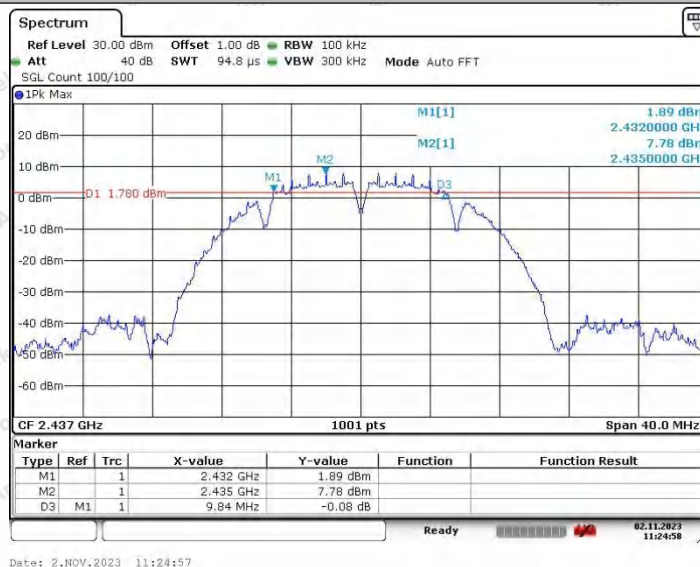


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11B_Ant2_2437



11B_Ant1_2462

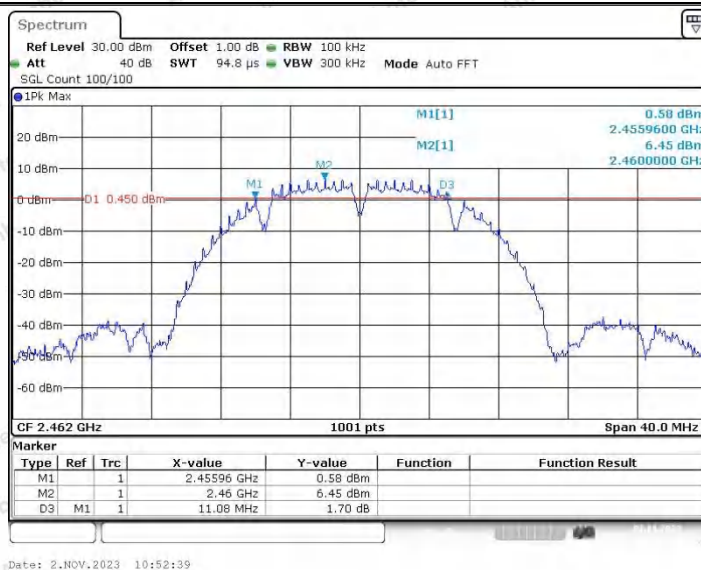
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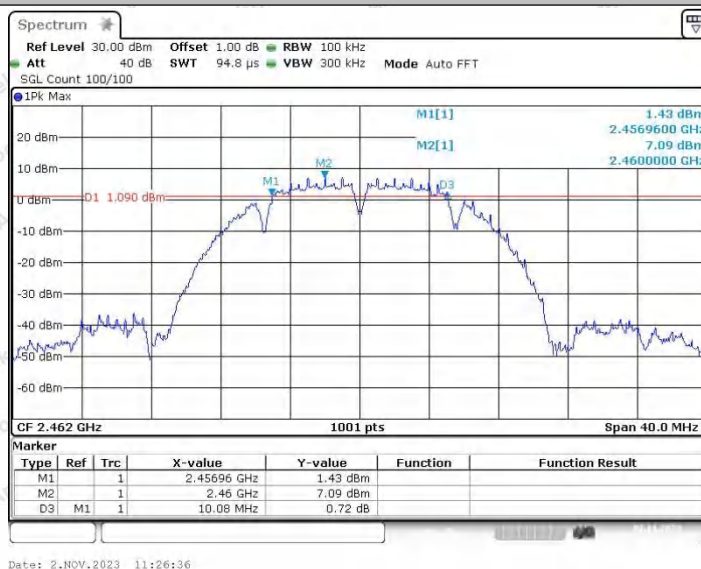


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11B_Ant2_2462



11G_Ant1_2412

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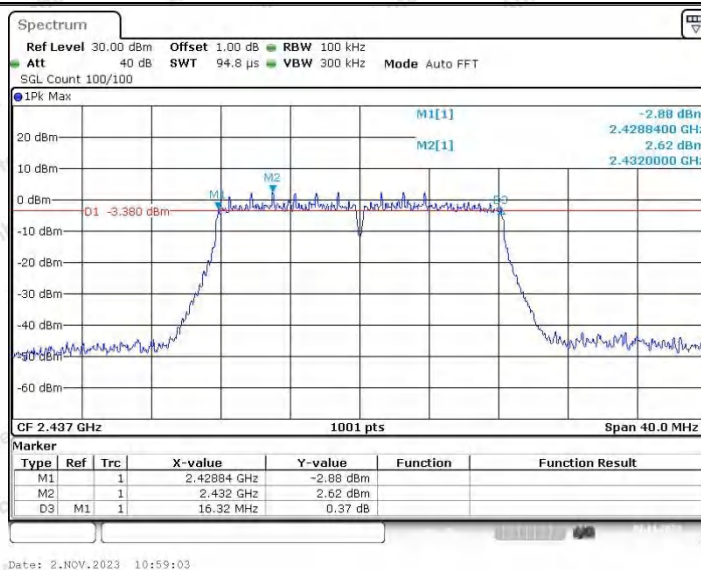
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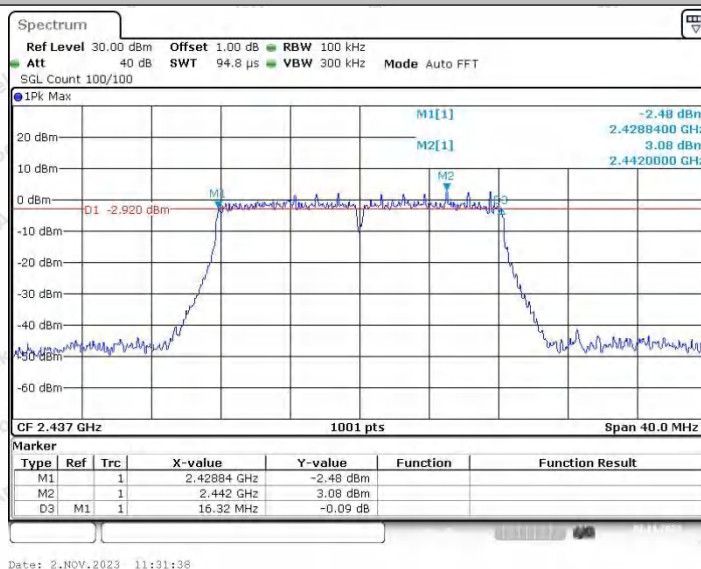


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11G_Ant2_2437



11G_Ant1_2462

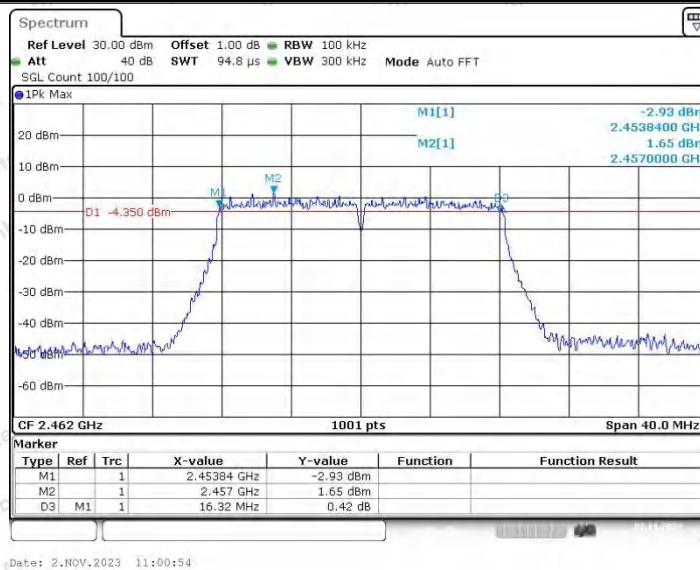
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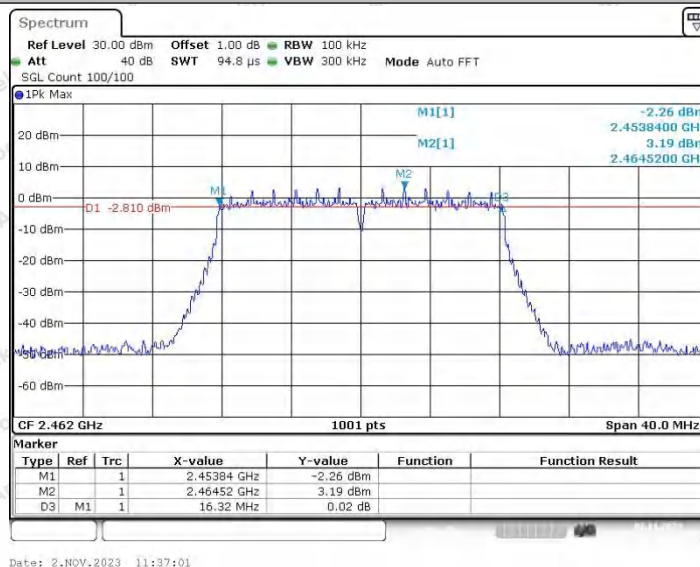


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11G_Ant2_2462



11N20SISO_Ant1_2412

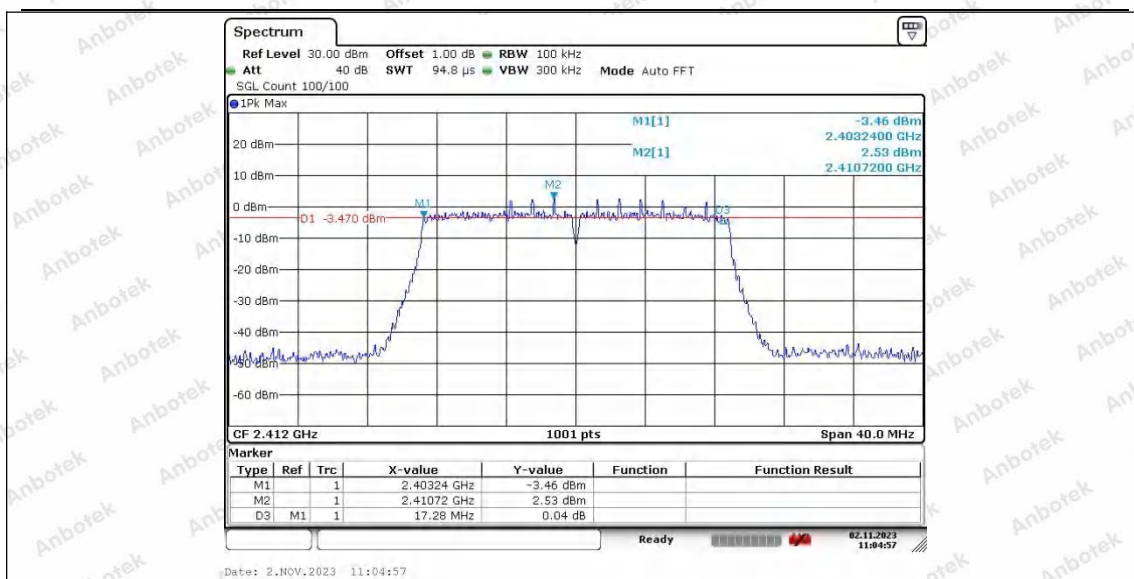
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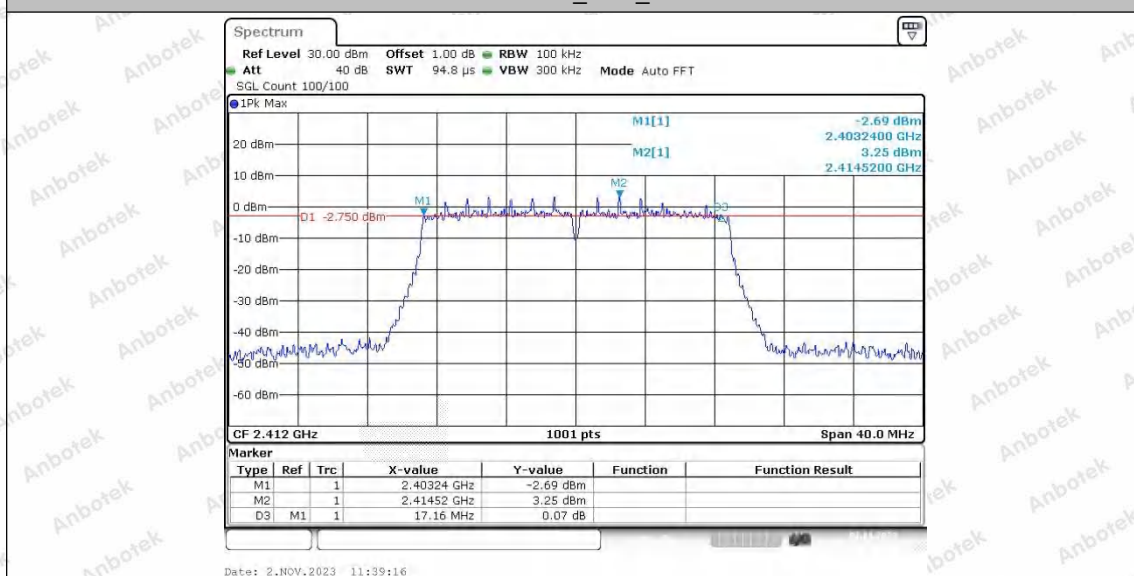


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11N20SISO_Ant2_2412



11N20SISO_Ant1_2437

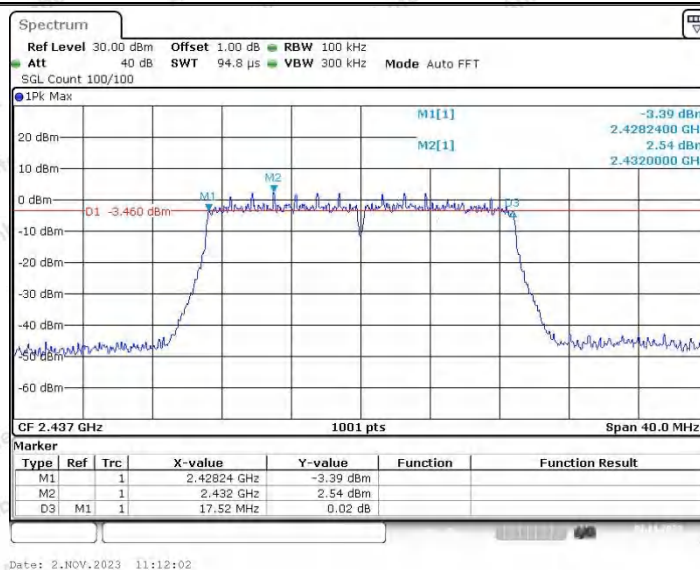
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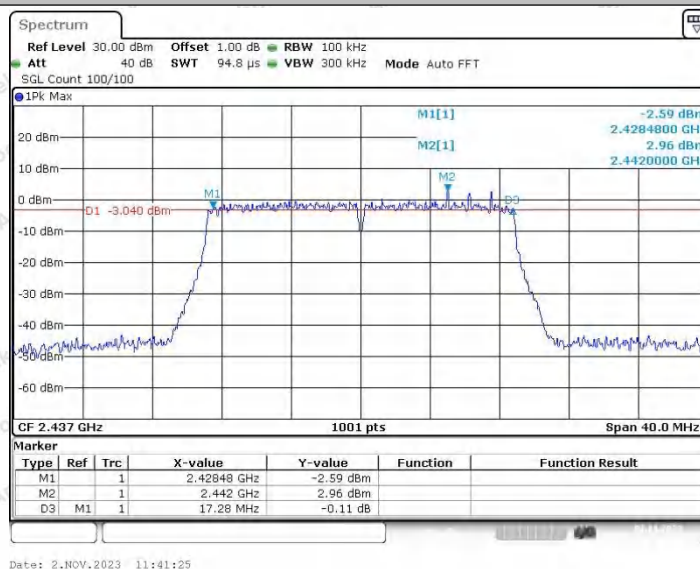


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11N20SISO_Ant2_2437



11N20SISO_Ant1_2462

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Appendix B: Occupied Channel Bandwidth

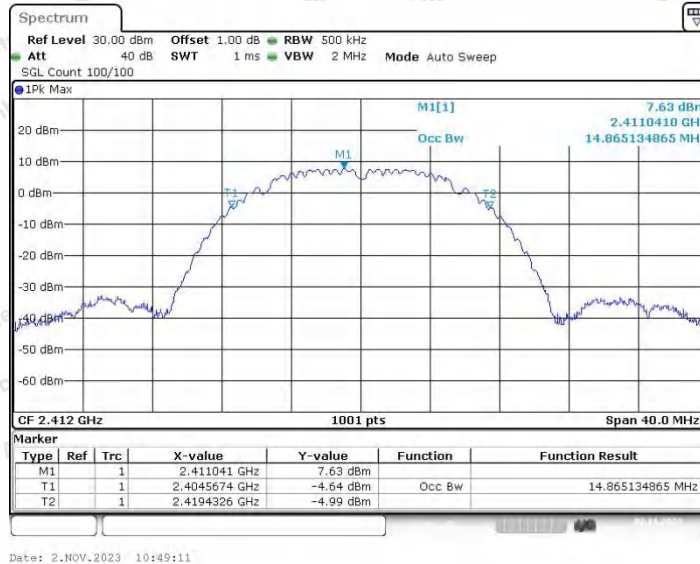
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.865	2404.5674	2419.4326	---	---
	Ant2	2412	14.945	2404.5275	2419.4725	---	---
	Ant1	2437	14.865	2429.5674	2444.4326	---	---
	Ant2	2437	14.945	2429.5275	2444.4725	---	---
	Ant1	2462	14.865	2454.5674	2469.4326	---	---
	Ant2	2462	14.945	2454.5275	2469.4725	---	---
11G	Ant1	2412	16.543	2403.7682	2420.3117	---	---
	Ant2	2412	16.503	2403.7682	2420.2717	---	---
	Ant1	2437	16.543	2428.7682	2445.3117	---	---
	Ant2	2437	16.583	2428.7283	2445.3117	---	---
	Ant1	2462	16.583	2453.7283	2470.3117	---	---
	Ant2	2462	16.543	2453.7682	2470.3117	---	---
11N20SISO	Ant1	2412	17.662	2403.1688	2420.8312	---	---
	Ant2	2412	17.662	2403.2088	2420.8711	---	---
	Ant1	2437	17.662	2428.1688	2445.8312	---	---
	Ant2	2437	17.662	2428.2088	2445.8711	---	---
	Ant1	2462	17.622	2453.2088	2470.8312	---	---
	Ant2	2462	17.662	2453.1688	2470.8312	---	---

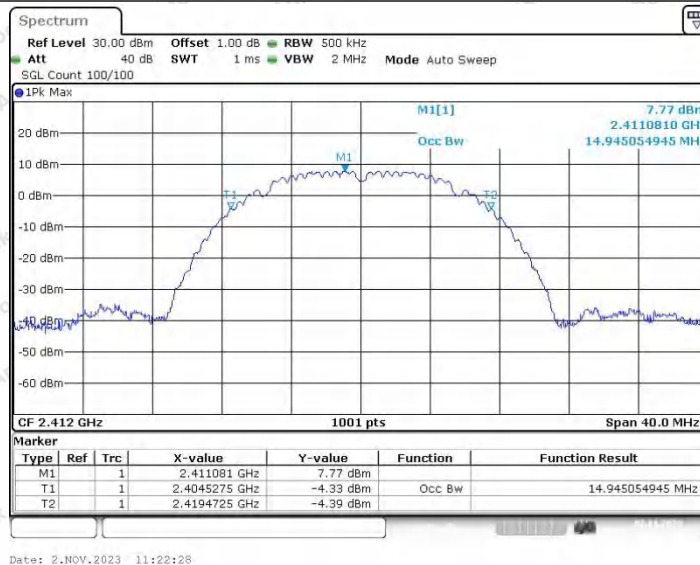


Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

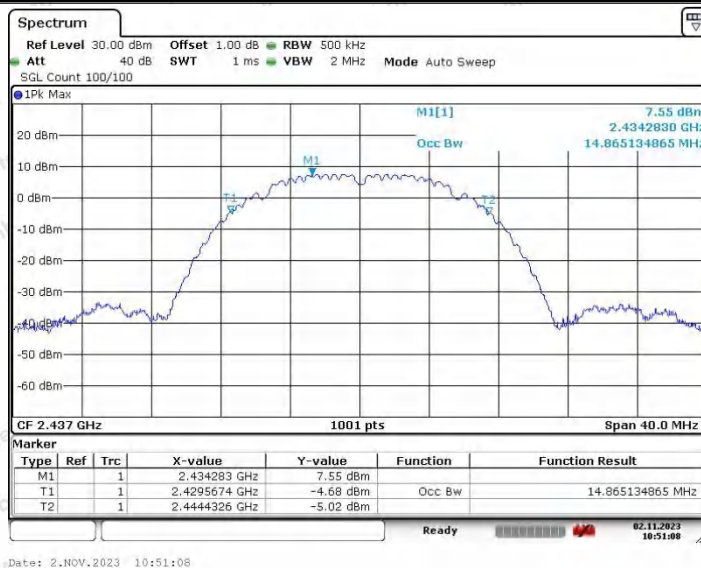
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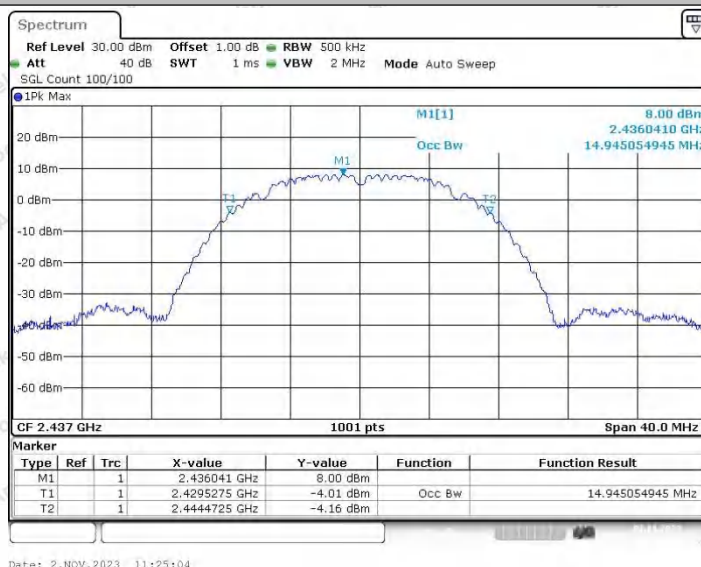


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11B_Ant2_2437



11B_Ant1_2462

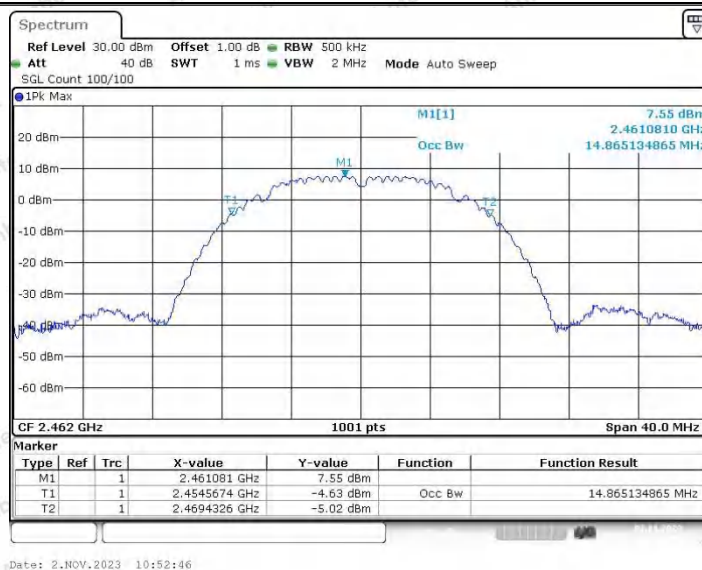
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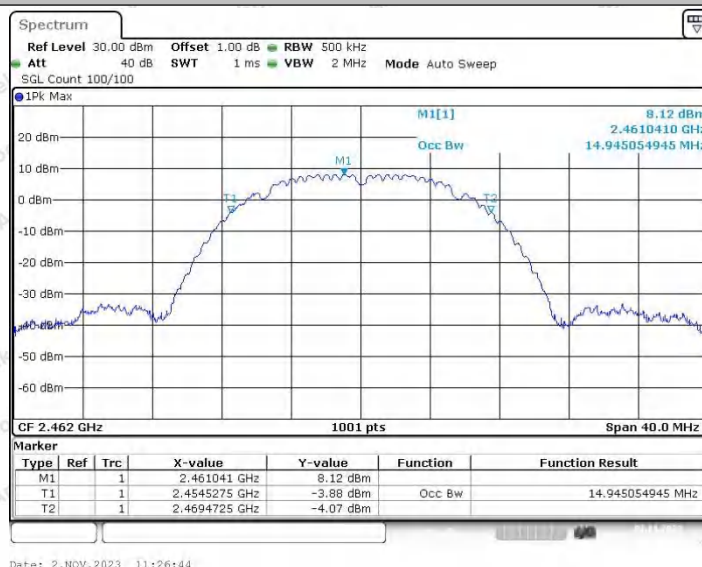


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11B_Ant2_2462



11G_Ant1_2412

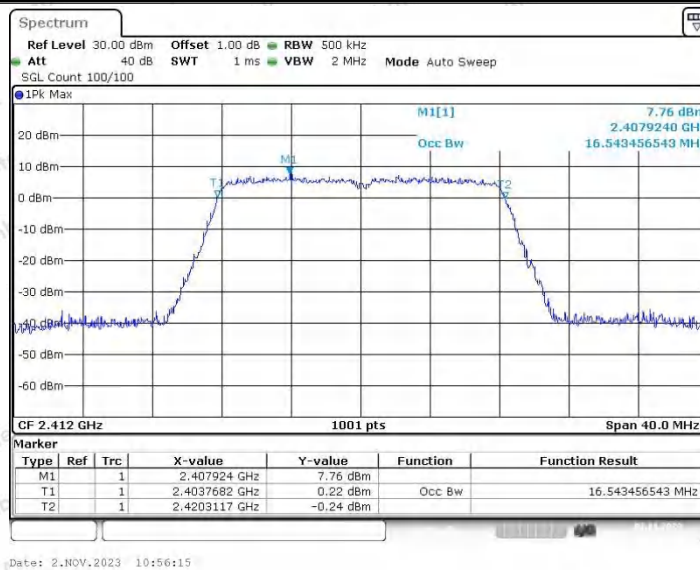
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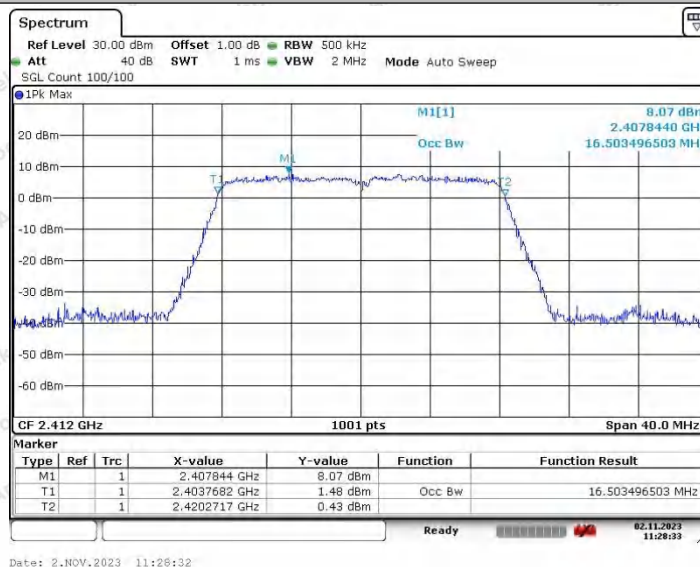


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11G_Ant2_2412



11G_Ant1_2437

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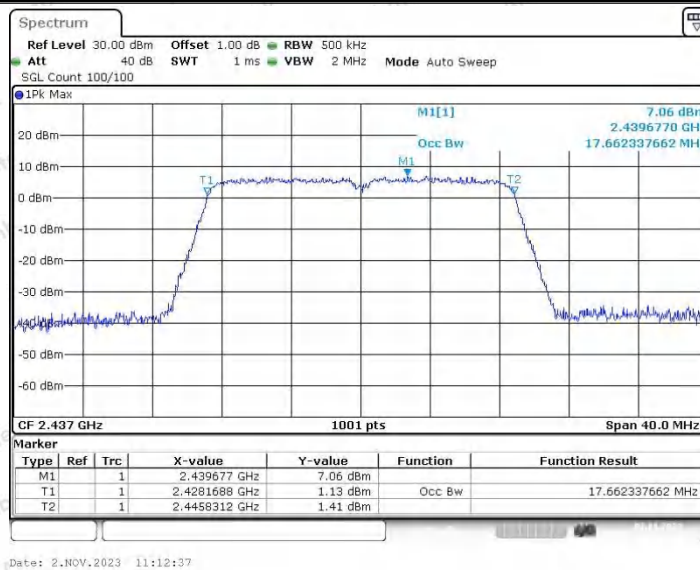
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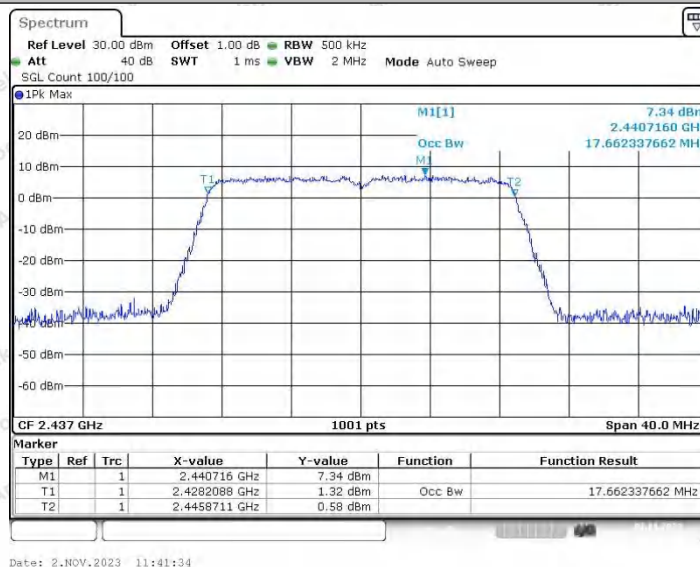


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11N20SISO_Ant2_2437



11N20SISO_Ant1_2462

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Appendix C: Maximum conducted output power

Test Result Peak Output

TestMode	Antenna	Frequency[MHz]	Peak Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.37	≤30.00
	Ant2	2412	18.66	≤30.00
	Ant1	2437	18.07	≤30.00
	Ant2	2437	18.81	≤30.00
	Ant1	2462	18.64	≤30.00
	Ant2	2462	18.81	≤30.00
11G	Ant1	2412	19.22	≤30.00
	Ant2	2412	19.65	≤30.00
	Ant1	2437	19.33	≤30.00
	Ant2	2437	19.97	≤30.00
	Ant1	2462	19.39	≤30.00
	Ant2	2462	19.75	≤30.00
11N20SISO	Ant1	2412	19.41	≤30.00
	Ant2	2412	20.33	≤30.00
	Ant1	2437	19.21	≤30.00
	Ant2	2437	20.06	≤30.00
	Ant1	2462	19.15	≤30.00
	Ant2	2462	19.83	≤30.00

MIMO

TestMode	Frequency[MHz]	Peak Output Power[dBm]	Conducted Limit[dBm]
11N20	2412	22.90	≤29.3
	2437	22.67	≤29.3
	2462	22.51	≤29.3

Note:

1. As Directional gain = $10 \log[(10G1/20 + 10G2/20)^2 / NANT]$ dBi=6.70>6dBi, so limit=30-(6.70-6.00)=29.3dBm.

2. MIMO= $10 * \log(10^{ANT1/10} + 10^{ANT2/10})$



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.13	≤8.00	PASS
	Ant2	2412	-8.02	≤8.00	PASS
	Ant1	2437	-8.19	≤8.00	PASS
	Ant2	2437	-7.34	≤8.00	PASS
	Ant1	2462	-7.61	≤8.00	PASS
	Ant2	2462	-7.45	≤8.00	PASS
11G	Ant1	2412	-12.86	≤8.00	PASS
	Ant2	2412	-12.5	≤8.00	PASS
	Ant1	2437	-12.9	≤8.00	PASS
	Ant2	2437	-13.2	≤8.00	PASS
	Ant1	2462	-12.68	≤8.00	PASS
	Ant2	2462	-12.9	≤8.00	PASS
11N20SISO	Ant1	2412	-12.55	≤8.00	PASS
	Ant2	2412	-12.35	≤8.00	PASS
	Ant1	2437	-12.12	≤8.00	PASS
	Ant2	2437	-12.11	≤8.00	PASS
	Ant1	2462	-11.88	≤8.00	PASS
	Ant2	2462	-11.62	≤8.00	PASS

MIMO

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]
11N20	2412	-9.44	≤7.3
	2437	-9.10	≤7.3
	2462	-8.74	≤7.3

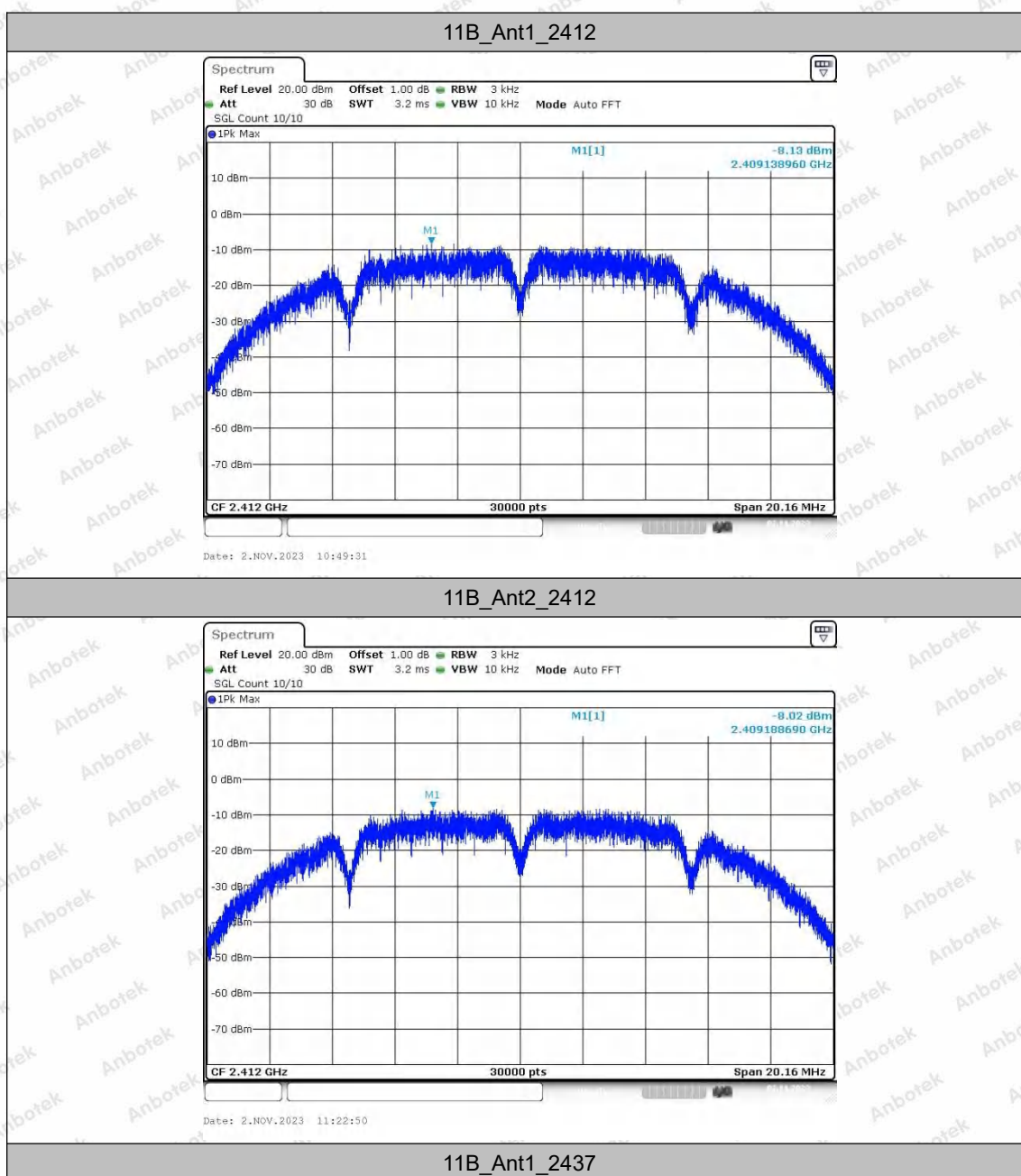
Note:

3. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.70>6dBi,
so limit=8-(6.70-6.00)=7.3dBm/3kHz.

MIMO= $10 * \log(10^{ANT1/10} + 10^{(ANT2/10)})$



Test Graphs



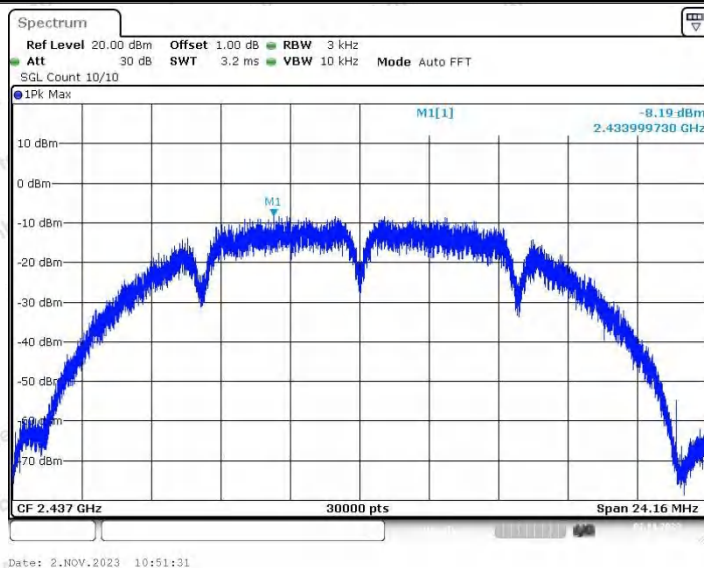
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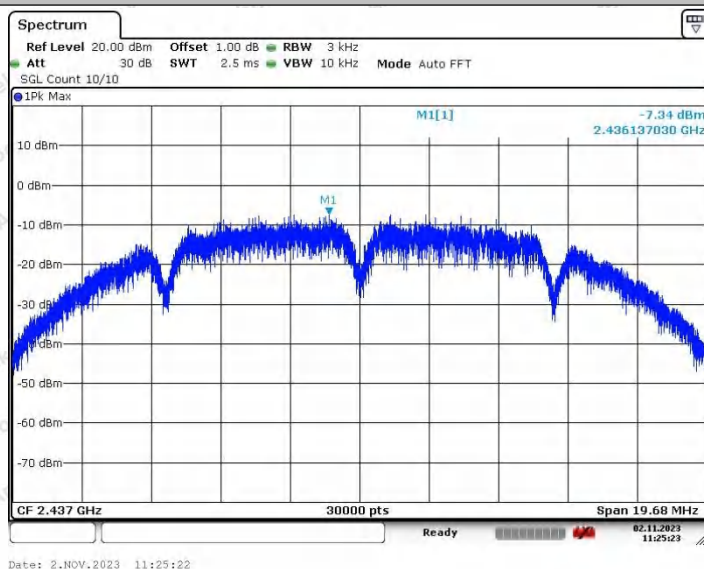


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11B_Ant2_2437



11B_Ant1_2462

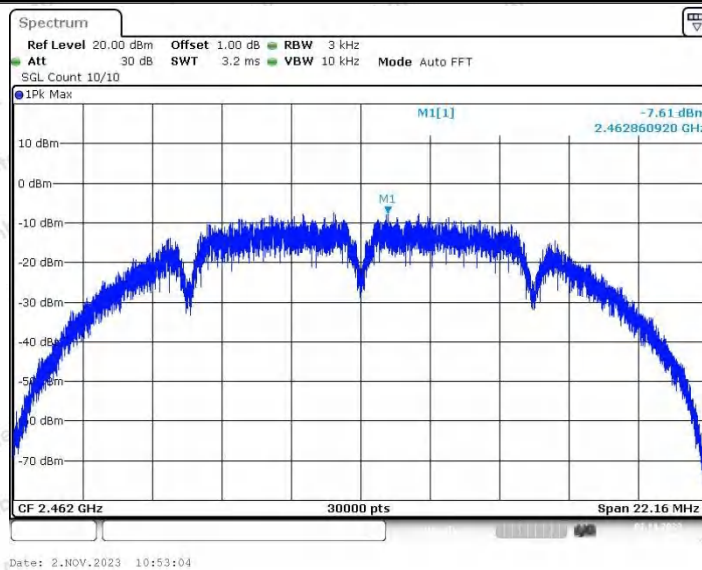
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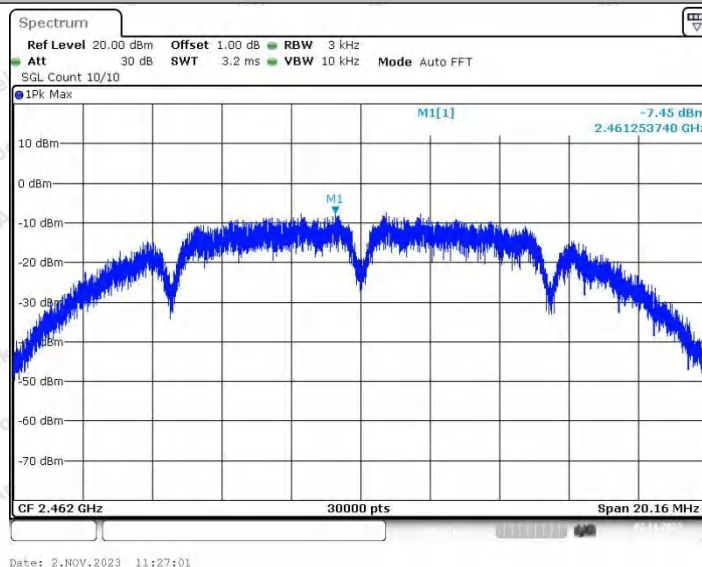


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11B_Ant2_2462



11G_Ant1_2412

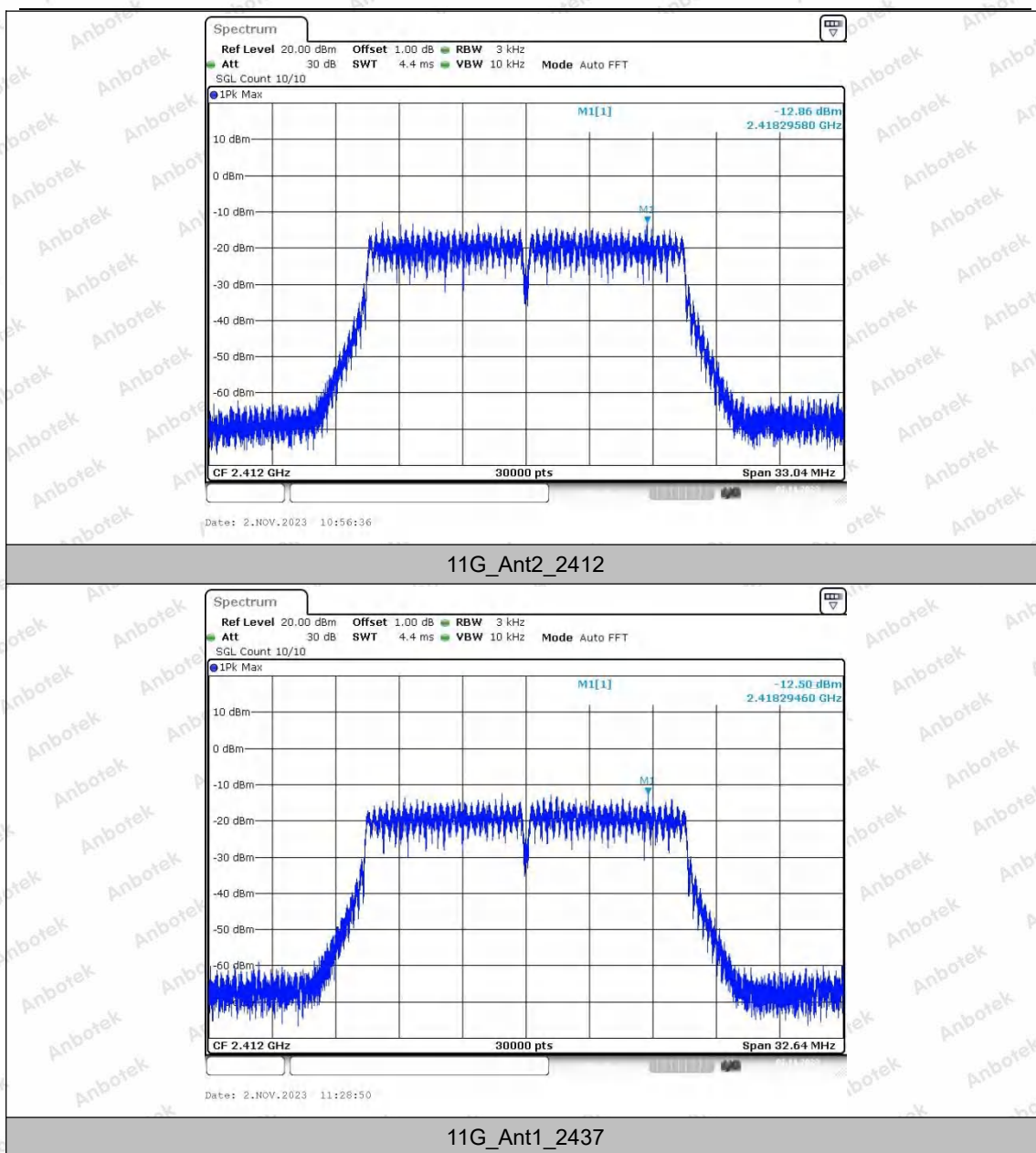
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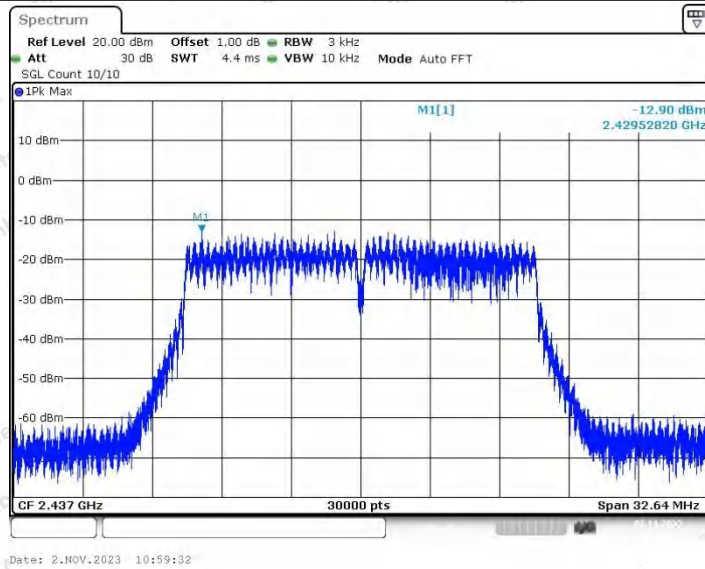
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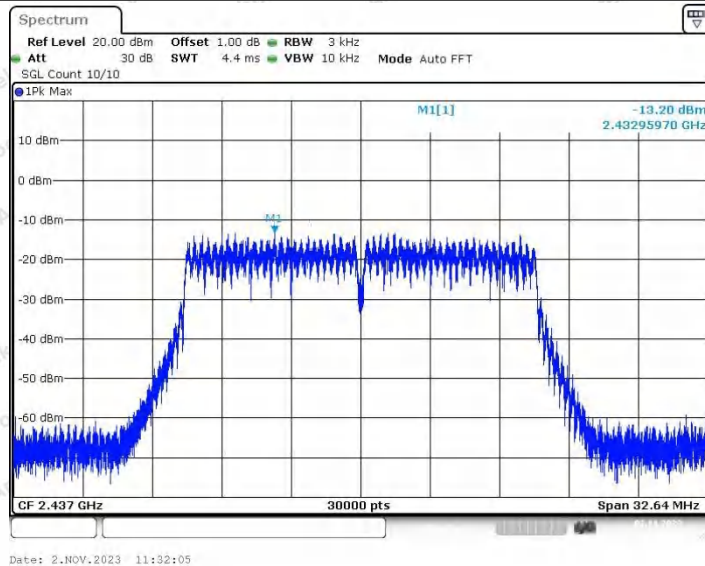


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11G_Ant2_2437



11G_Ant1_2462

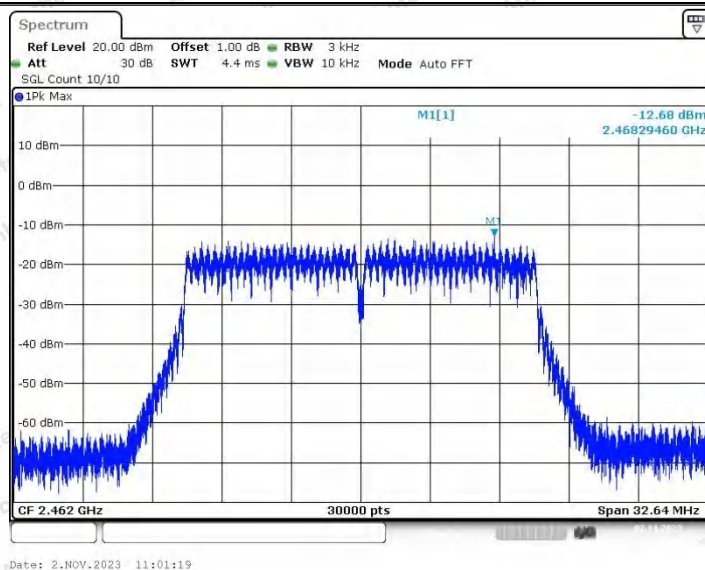
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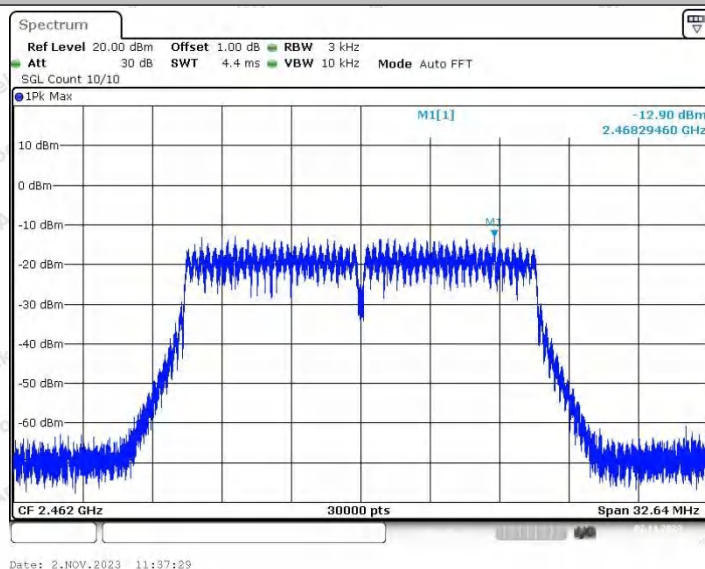


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11G_Ant2_2462



11N20SISO_Ant1_2412

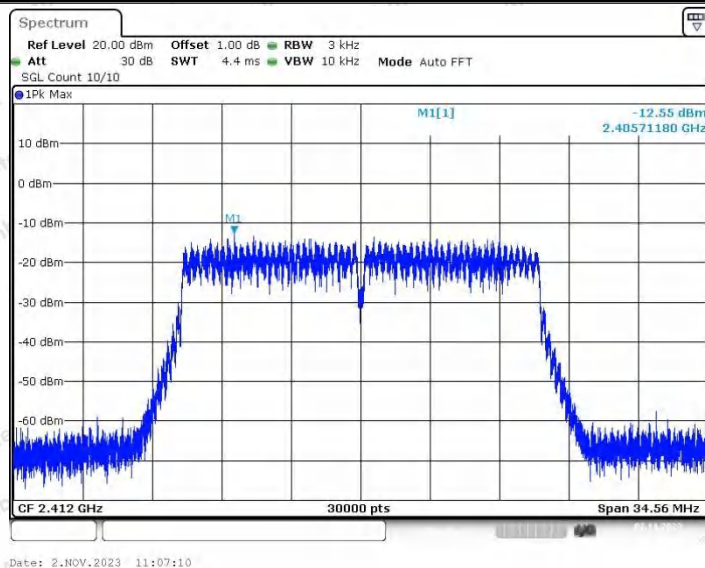
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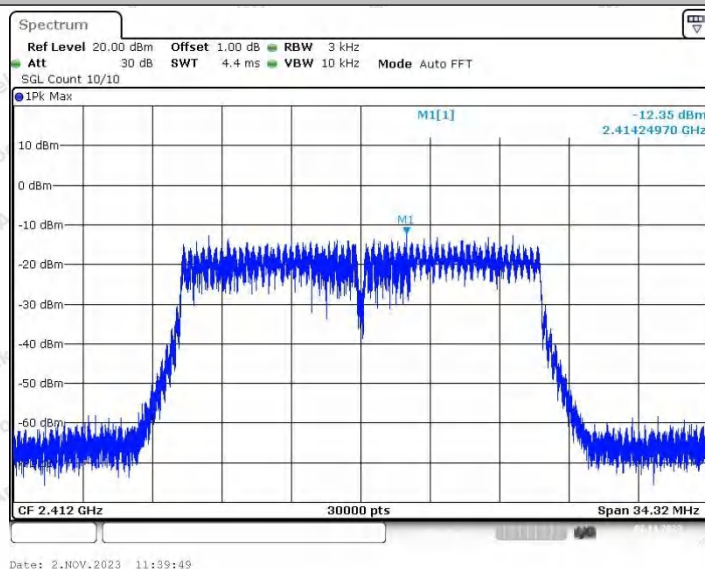


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11N20SISO_Ant2_2412



11N20SISO_Ant1_2437

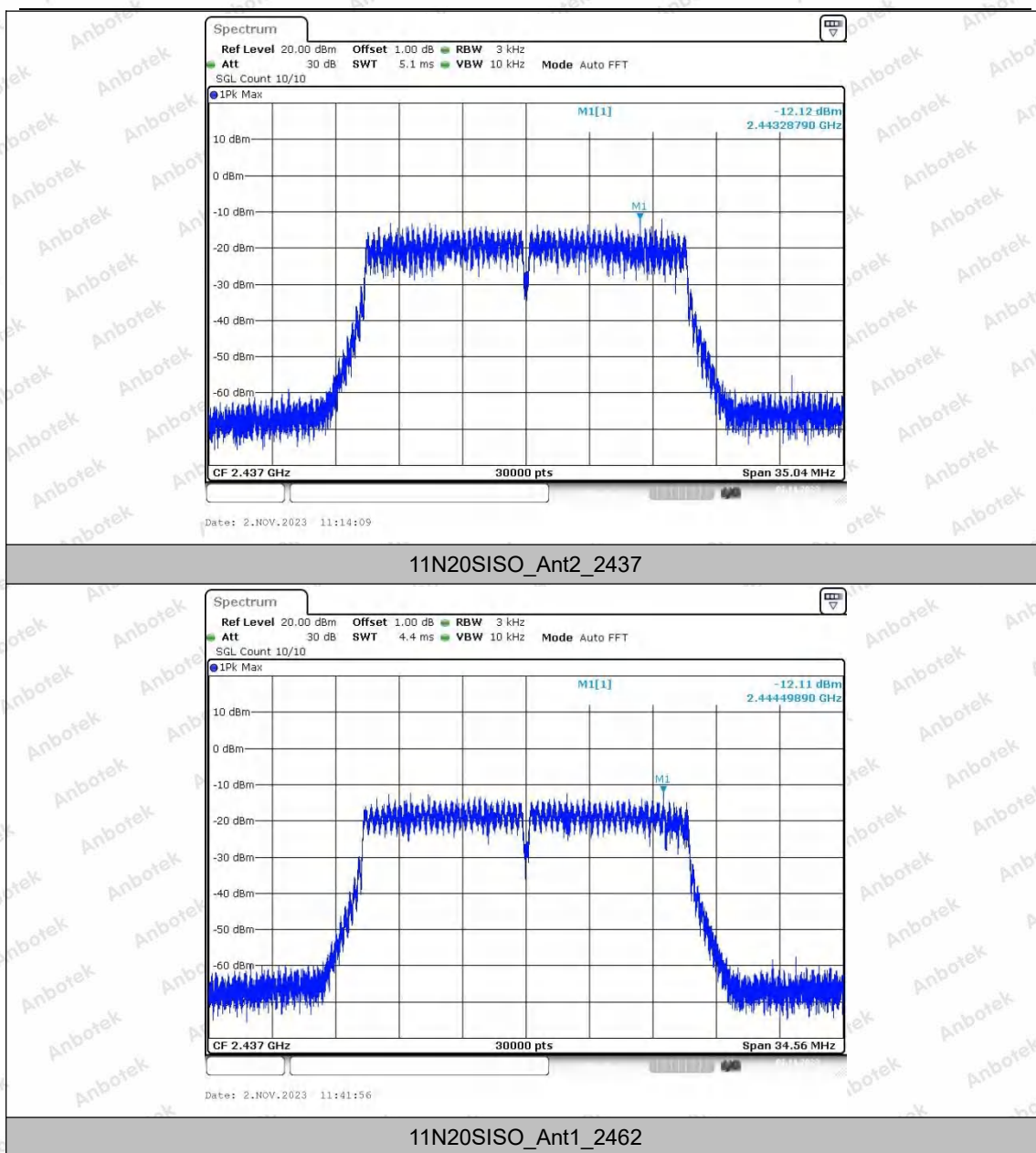
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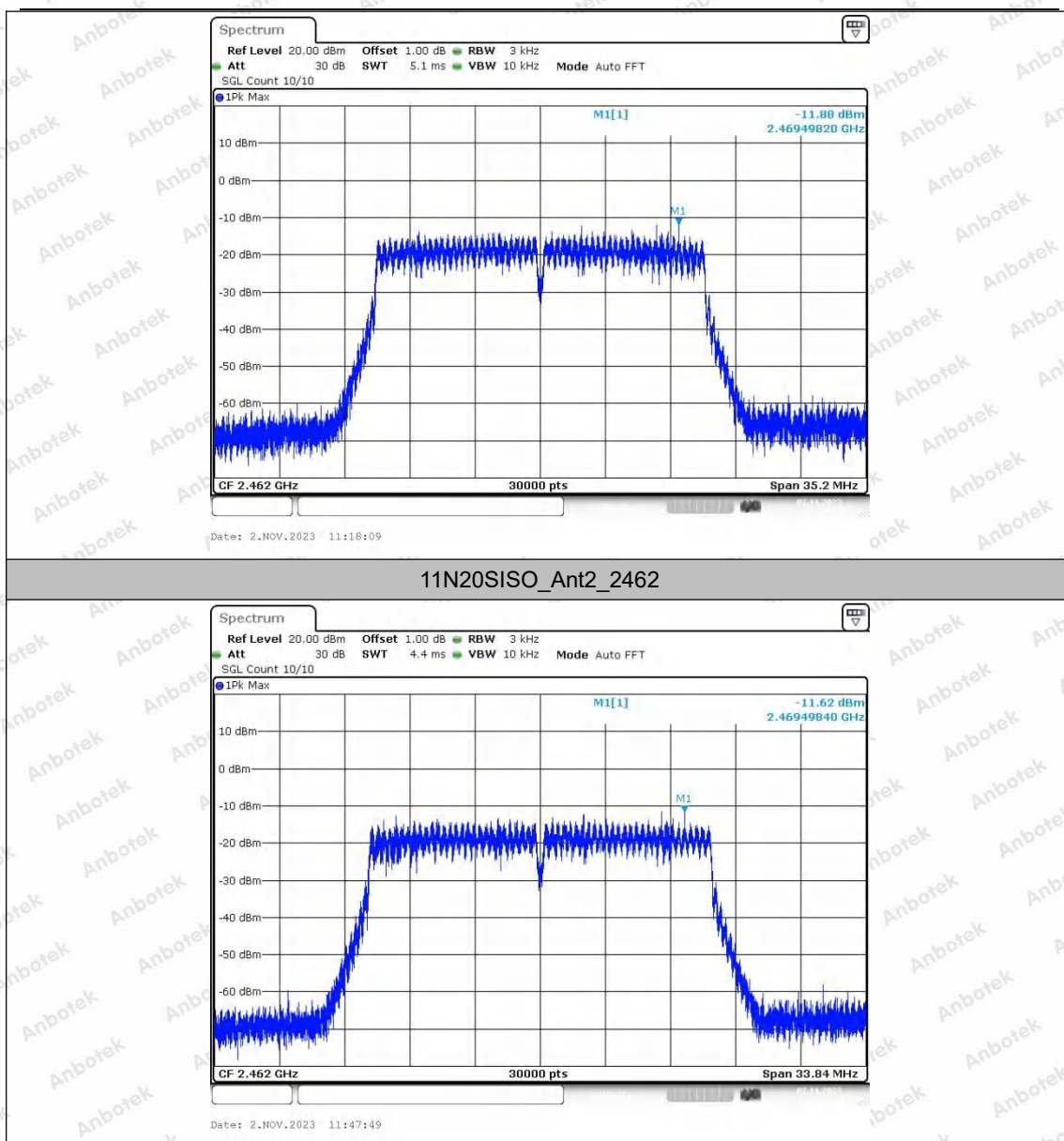
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Appendix E: Band edge measurements

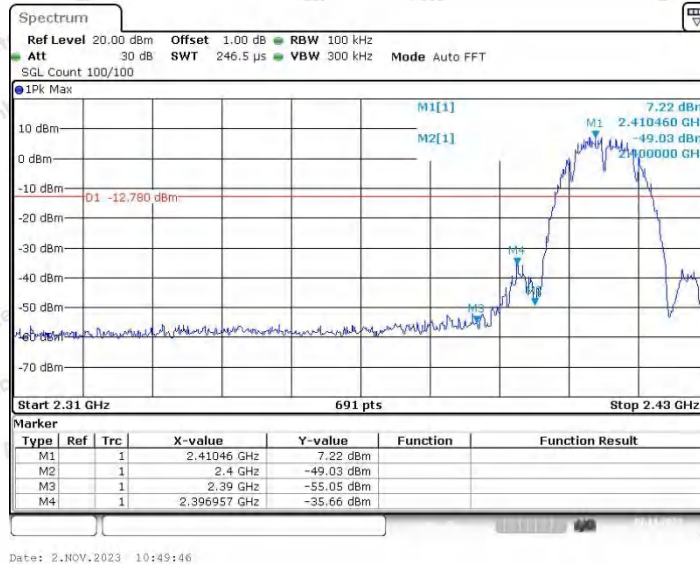
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.22	-35.66	≤-12.78	PASS
	Ant2	Low	2412	7.06	-40.24	≤-12.94	PASS
	Ant1	High	2462	6.74	-50.1	≤-13.26	PASS
	Ant2	High	2462	7.26	-50.02	≤-12.74	PASS
11G	Ant1	Low	2412	1.82	-46.34	≤-18.18	PASS
	Ant2	Low	2412	3.15	-45.15	≤-16.85	PASS
	Ant1	High	2462	2.59	-51.16	≤-17.41	PASS
	Ant2	High	2462	3.06	-51.64	≤-16.94	PASS
11N20SISO	Ant1	Low	2412	2.78	-46.11	≤-17.22	PASS
	Ant2	Low	2412	2.59	-43.68	≤-17.41	PASS
	Ant1	High	2462	2.06	-47.96	≤-17.94	PASS
	Ant2	High	2462	1.56	-48.38	≤-18.44	PASS

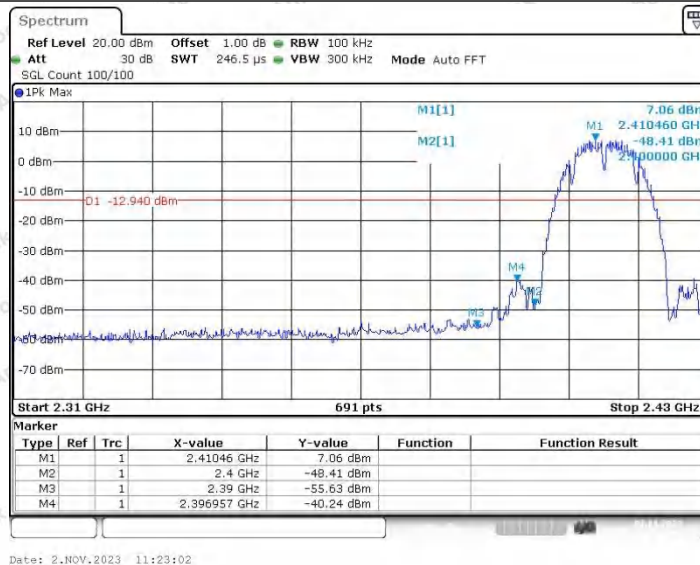


Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462

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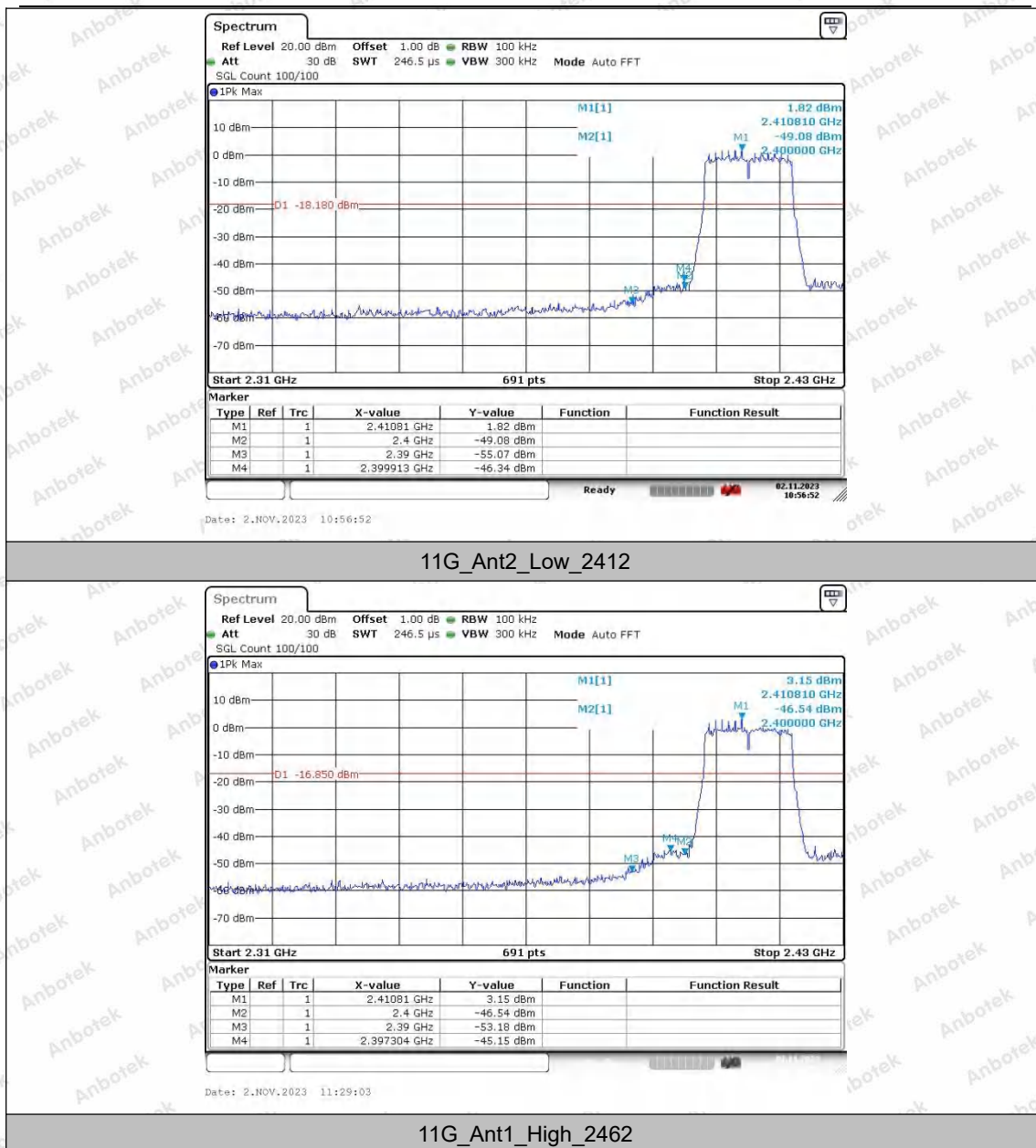
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.93	5.93	---	PASS
			30~1000	5.93	-62.85	≤-14.07	PASS
			1000~26500	5.93	-41.19	≤-14.07	PASS
	Ant2	2412	Reference	6.44	6.44	---	PASS
			30~1000	6.44	-64.68	≤-13.56	PASS
			1000~26500	6.44	-41.33	≤-13.56	PASS
	Ant1	2437	Reference	5.96	5.96	---	PASS
			30~1000	5.96	-64.53	≤-14.04	PASS
			1000~26500	5.96	-41.03	≤-14.04	PASS
	Ant2	2437	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-64.62	≤-15.29	PASS
			1000~26500	4.71	-41.06	≤-15.29	PASS
	Ant1	2462	Reference	6.40	6.40	---	PASS
			30~1000	6.40	-64.98	≤-13.6	PASS
			1000~26500	6.40	-41	≤-13.6	PASS
11G	Ant1	2412	Reference	7.27	7.27	---	PASS
			30~1000	7.27	-65.53	≤-12.73	PASS
			1000~26500	7.27	-41.12	≤-12.73	PASS
	Ant2	2412	Reference	-0.86	-0.86	---	PASS
			30~1000	-0.86	-66.5	≤-20.86	PASS
			1000~26500	-0.86	-50.79	≤-20.86	PASS
	Ant2	2412	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-65.15	≤-20.07	PASS
			1000~26500	-0.07	-49.6	≤-20.07	PASS
	Ant1	2437	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-64.83	≤-19.37	PASS
			1000~26500	0.63	-50.22	≤-19.37	PASS
	Ant2	2437	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-64.77	≤-20.1	PASS
			1000~26500	-0.10	-49.7	≤-20.1	PASS
	Ant1	2462	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-66.2	≤-20.44	PASS
			1000~26500	-0.44	-50.11	≤-20.44	PASS
	Ant2	2462	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-64.19	≤-19.98	PASS

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11N20SISO	Ant1	2412	1000~26500	0.02	-49.72	≤ -19.98	PASS
			Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-65.97	≤ -21.09	PASS
	Ant2	2412	1000~26500	-1.09	-50.01	≤ -21.09	PASS
			Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-64.54	≤ -20.77	PASS
	Ant1	2437	1000~26500	-0.77	-50.16	≤ -20.77	PASS
			Reference	0.70	0.70	---	PASS
			30~1000	0.70	-64.6	≤ -19.3	PASS
	Ant2	2437	1000~26500	0.70	-50.94	≤ -19.3	PASS
			Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-64.06	≤ -21.09	PASS
	Ant1	2462	1000~26500	-1.09	-50.53	≤ -21.09	PASS
			Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-65.01	≤ -20.77	PASS
	Ant2	2462	1000~26500	-0.77	-50.19	≤ -20.77	PASS
			Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-65	≤ -21.12	PASS
	Ant1	2462	1000~26500	-1.12	-50.59	≤ -21.12	PASS
			Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-65	≤ -21.12	PASS
	Ant2	2462	1000~26500	-1.12	-50.59	≤ -21.12	PASS
			Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-65	≤ -21.12	PASS
	Ant1	2462	1000~26500	-1.12	-50.59	≤ -21.12	PASS
			Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-65	≤ -21.12	PASS
	Ant2	2462	1000~26500	-1.12	-50.59	≤ -21.12	PASS
			Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-65	≤ -21.12	PASS

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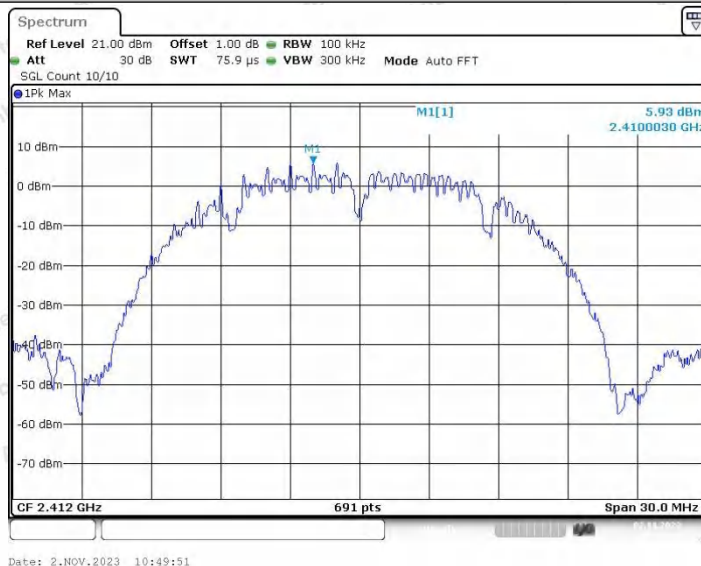


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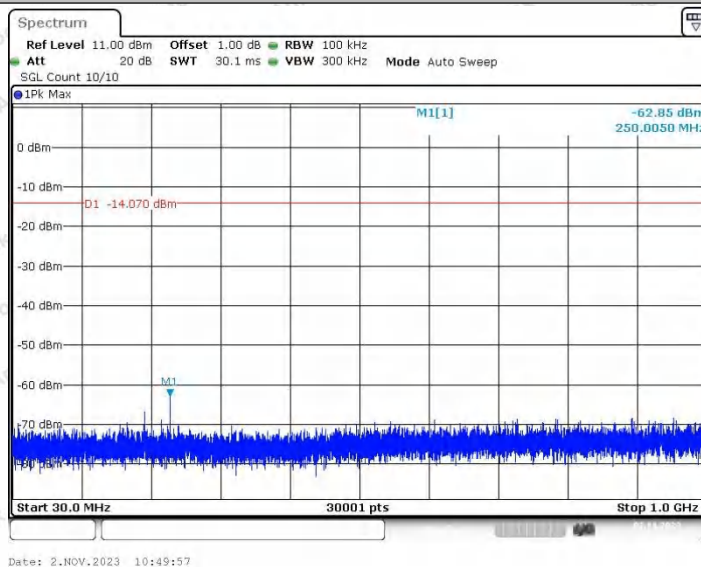


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

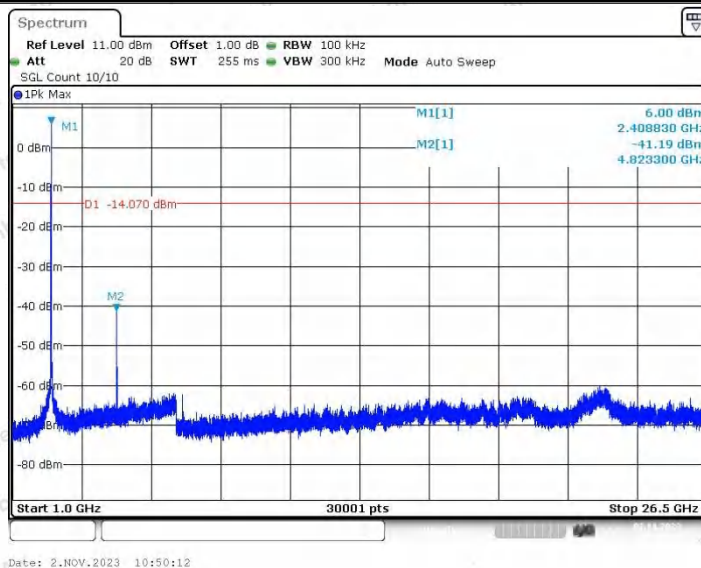
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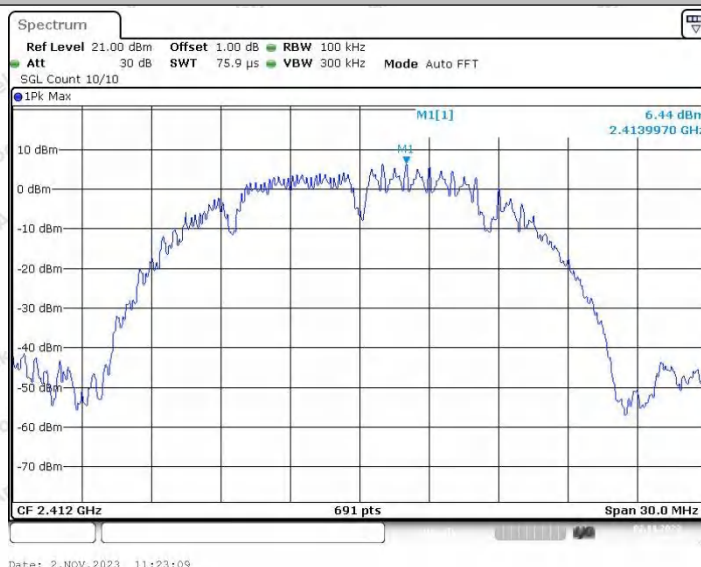


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11B_Ant2_2412_0~Reference



11B_Ant2_2412_30~1000

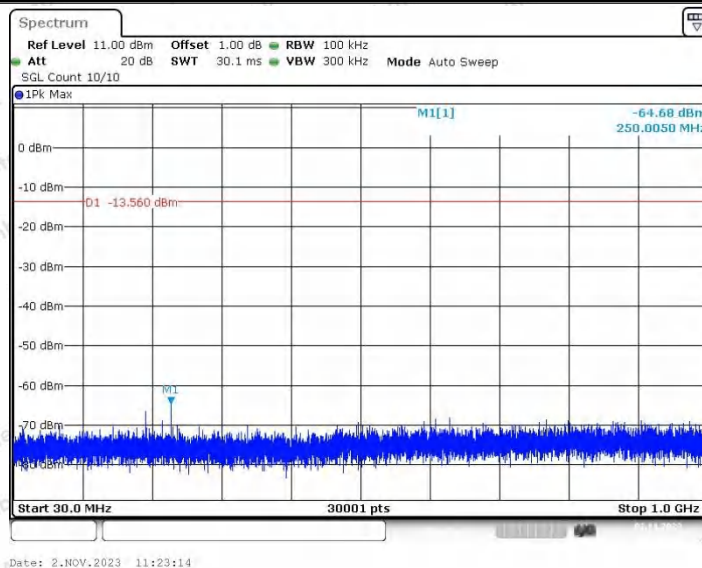
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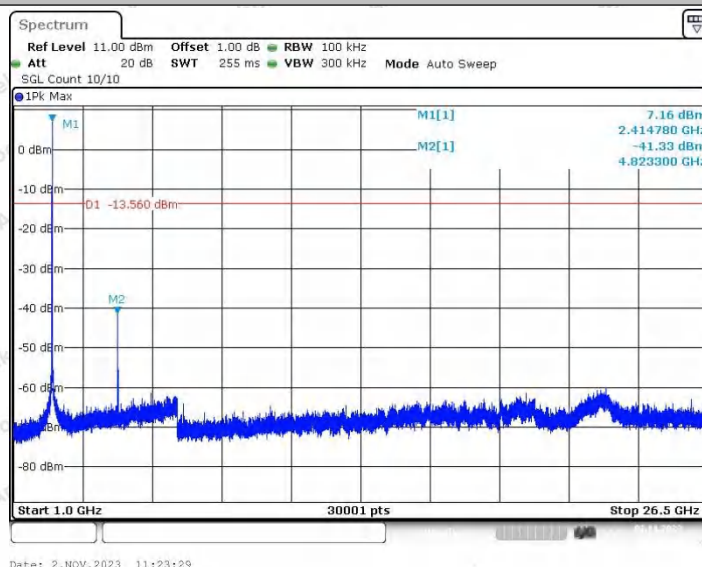


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11B_Ant2_2412_1000~26500



11B_Ant1_2437_0~Reference

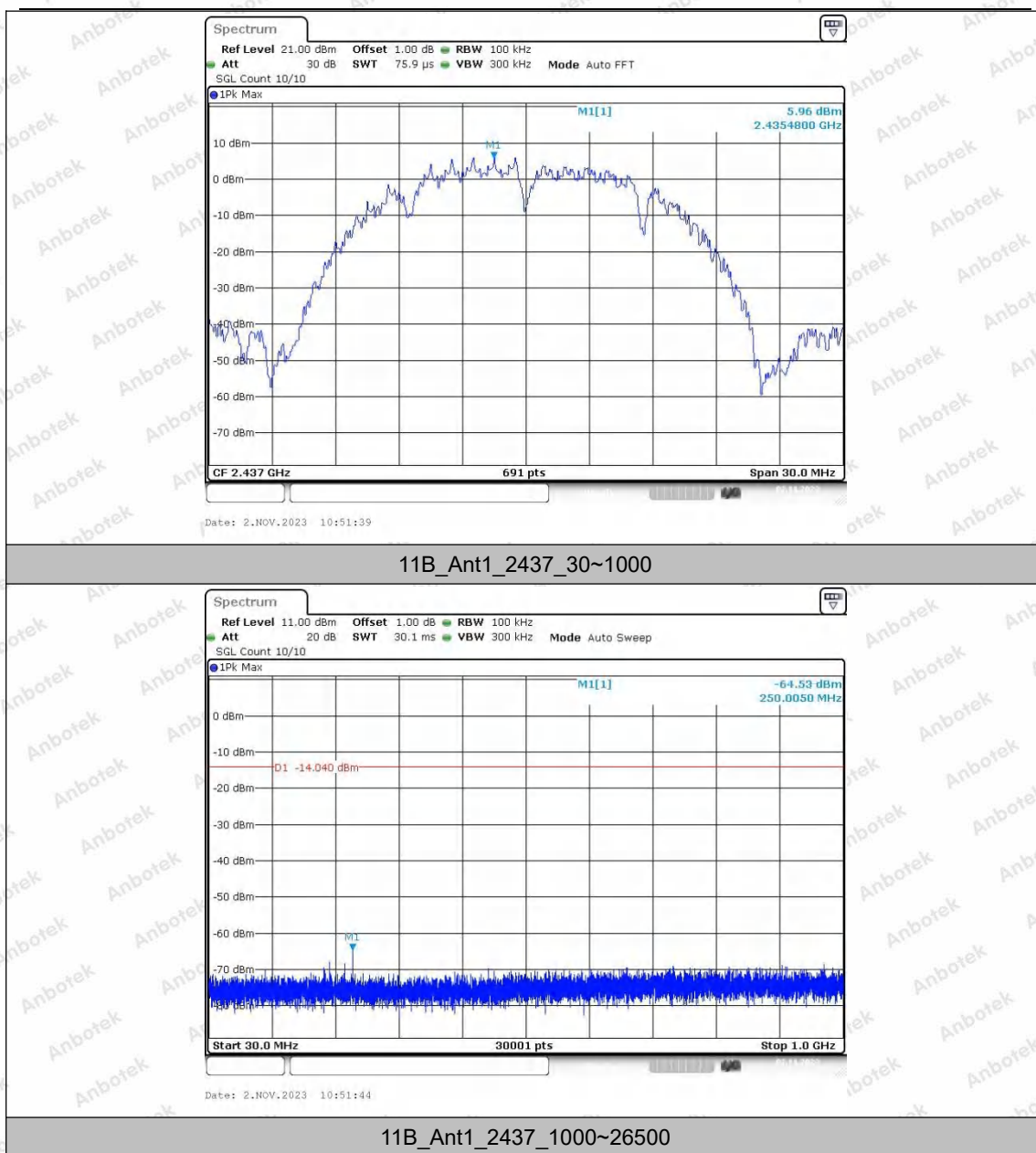
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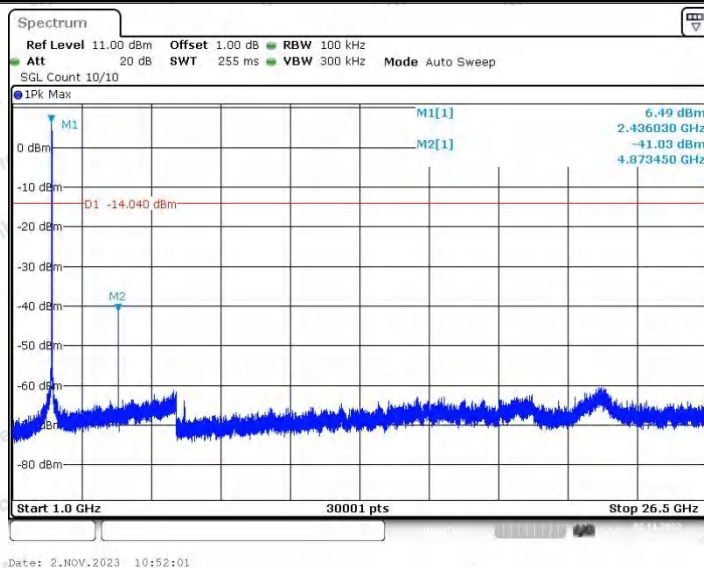
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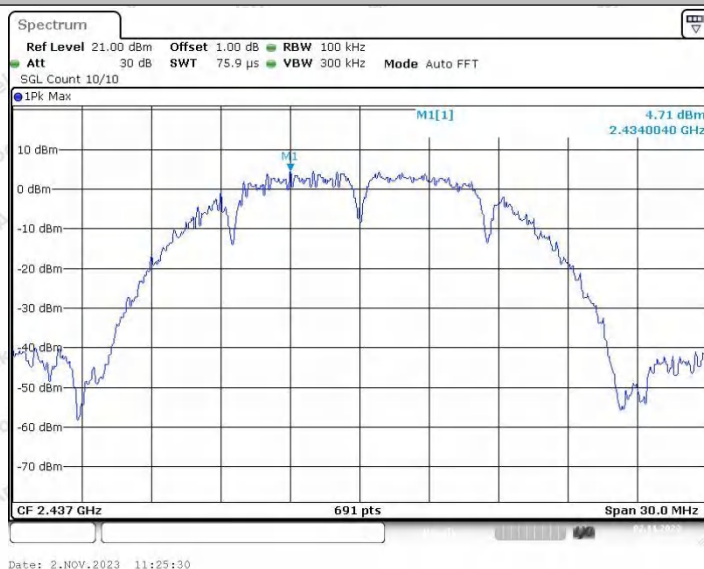


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11B_Ant2_2437_0~Reference



11B_Ant2_2437_30~1000

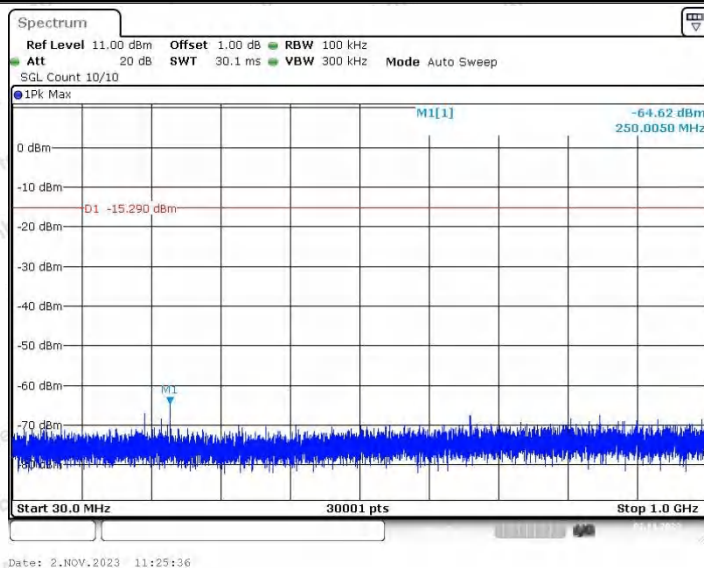
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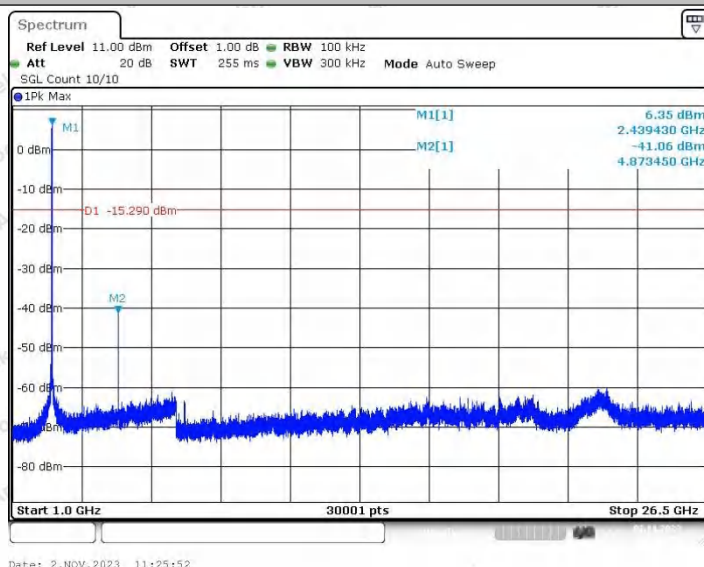


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11B_Ant2_2437_1000~26500



11B_Ant1_2462_0~Reference

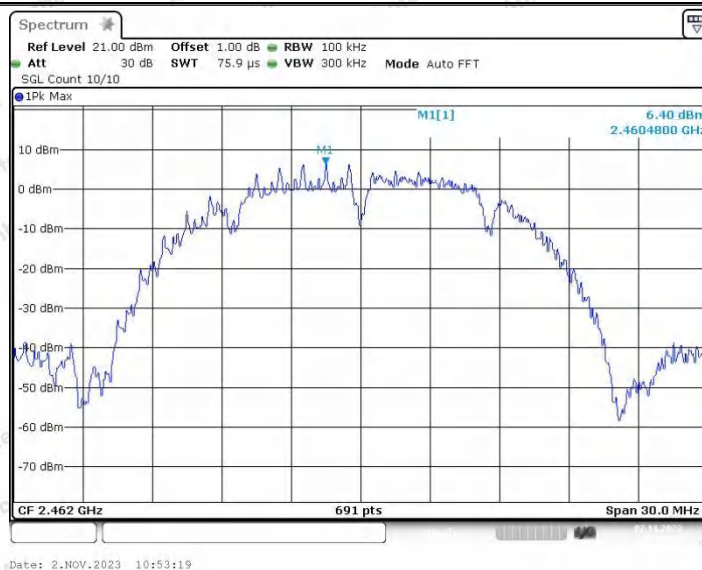
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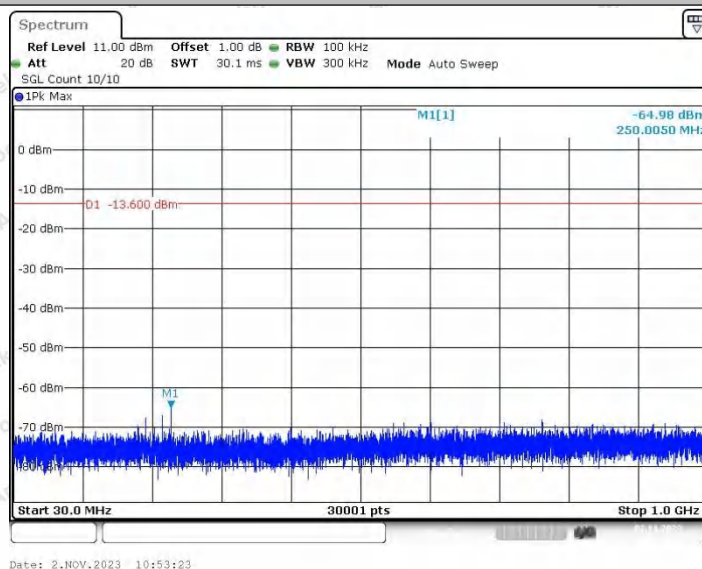


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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

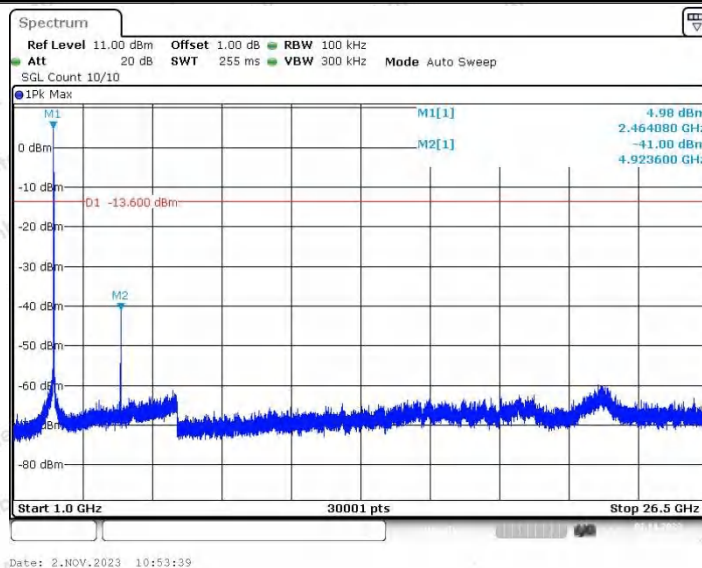
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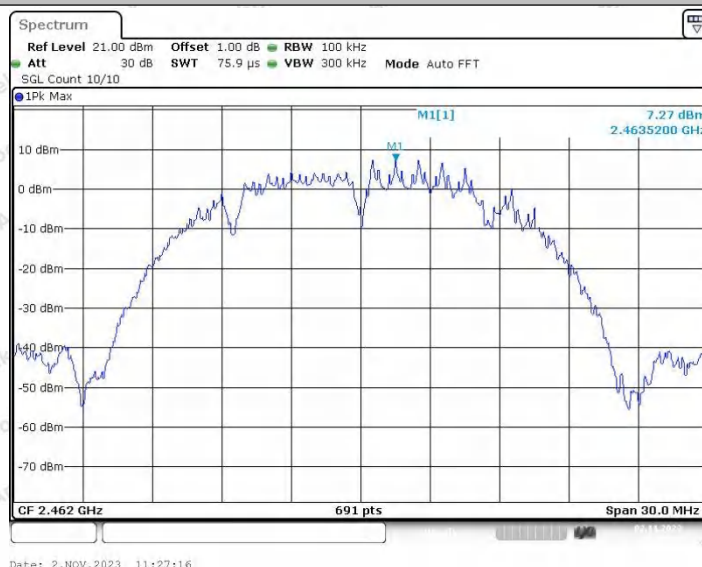


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11B_Ant2_2462_0~Reference



11B_Ant2_2462_30~1000

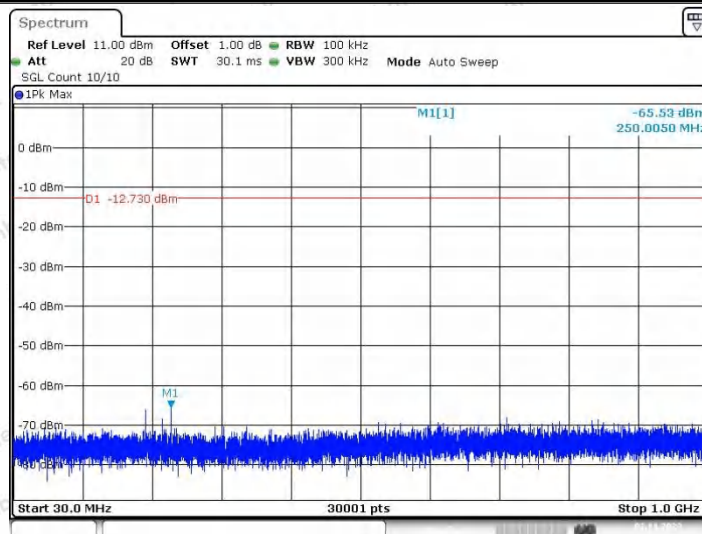
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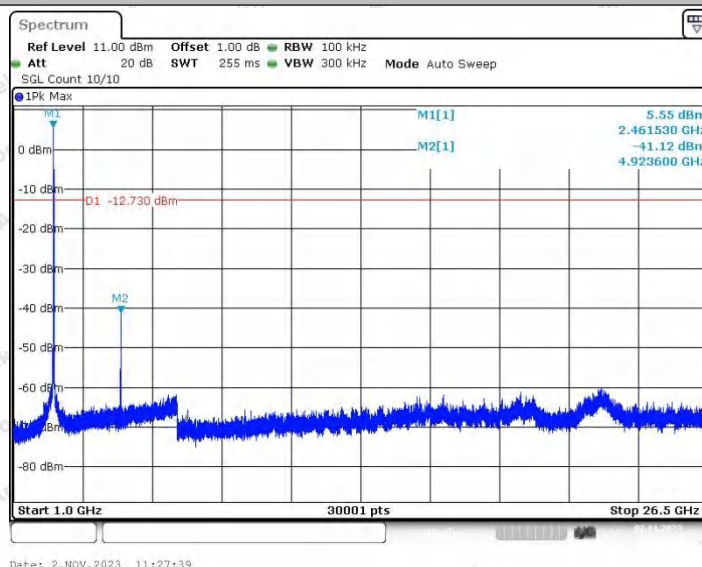


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11B_Ant2_2462_1000~26500



11G_Ant1_2412_0~Reference

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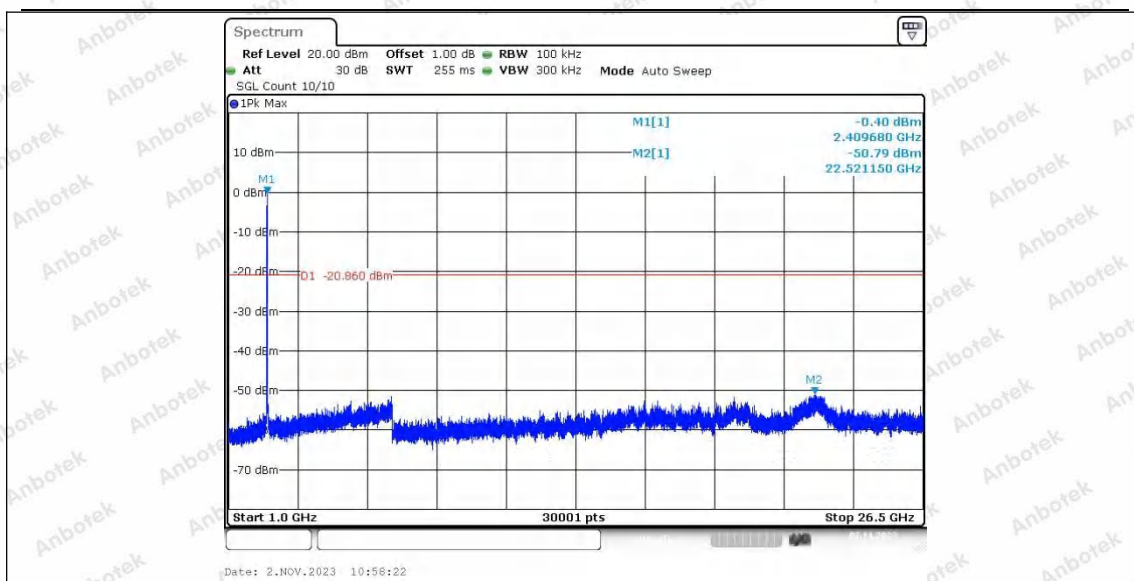
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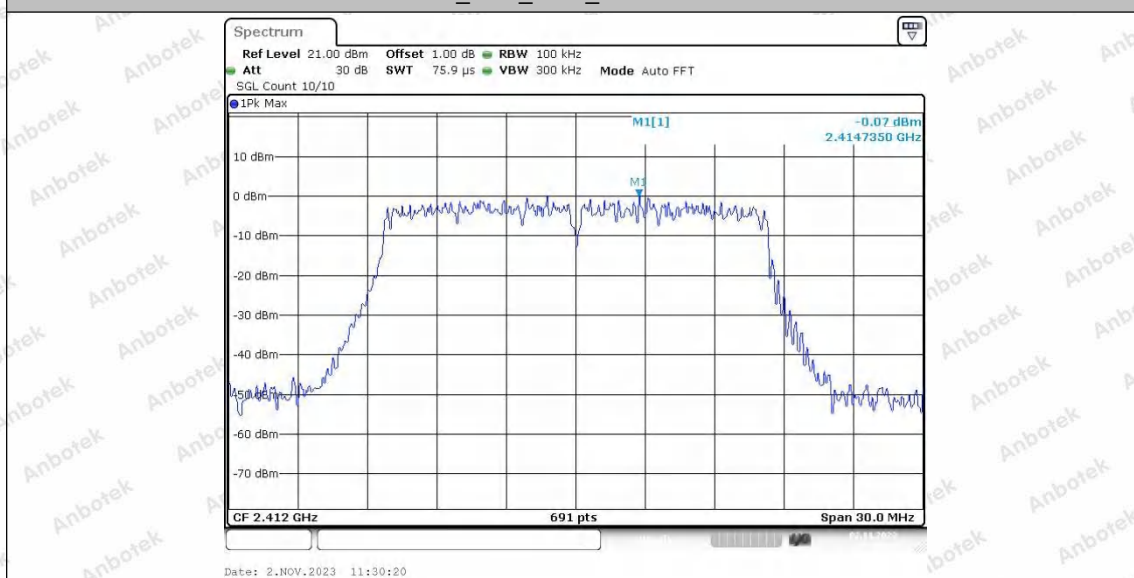


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11G_Ant2_2412_0~Reference



11G_Ant2_2412_30~1000

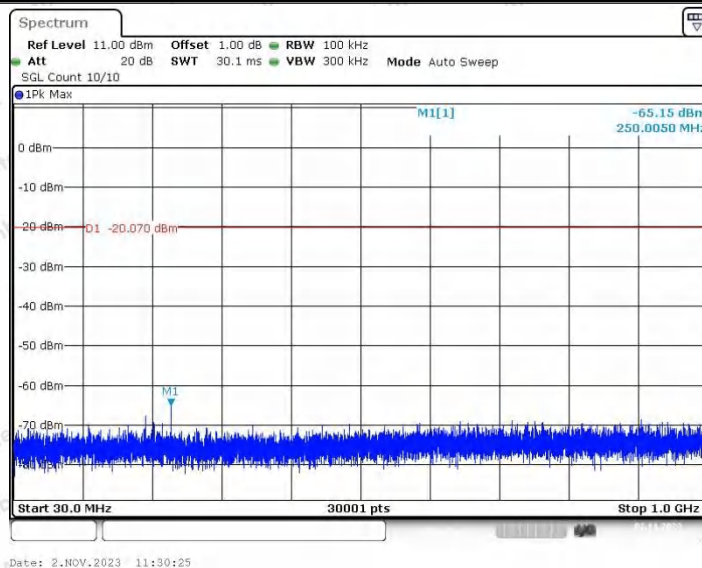
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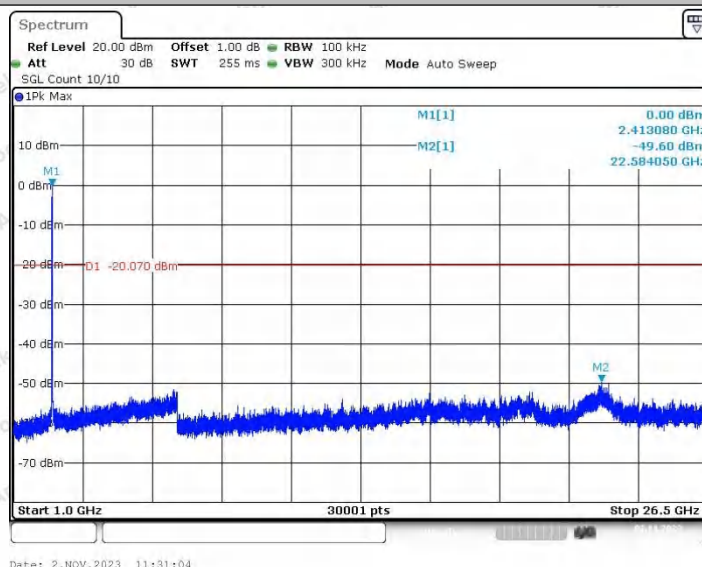


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11G_Ant2_2412_1000~26500



11G_Ant1_2437_0~Reference

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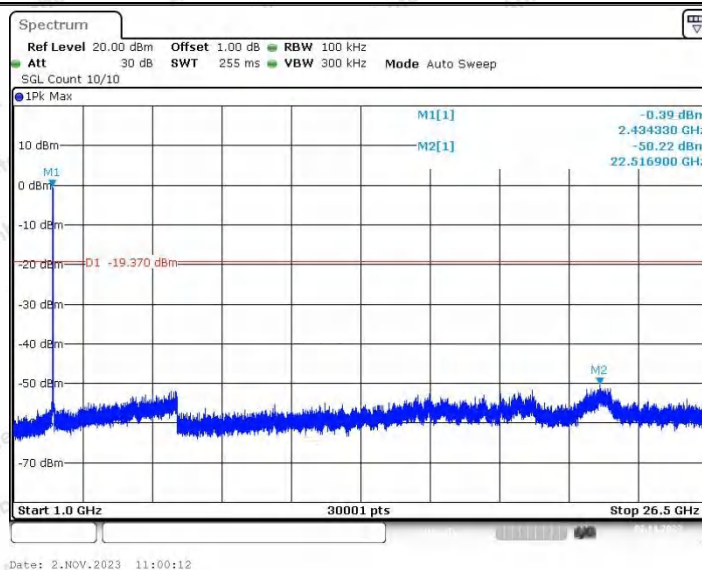
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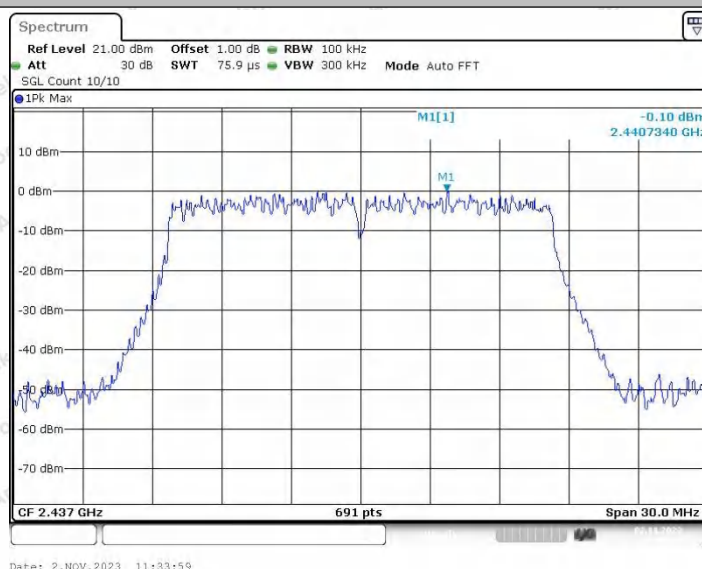


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11G_Ant2_2437_0~Reference



11G_Ant2_2437_30~1000

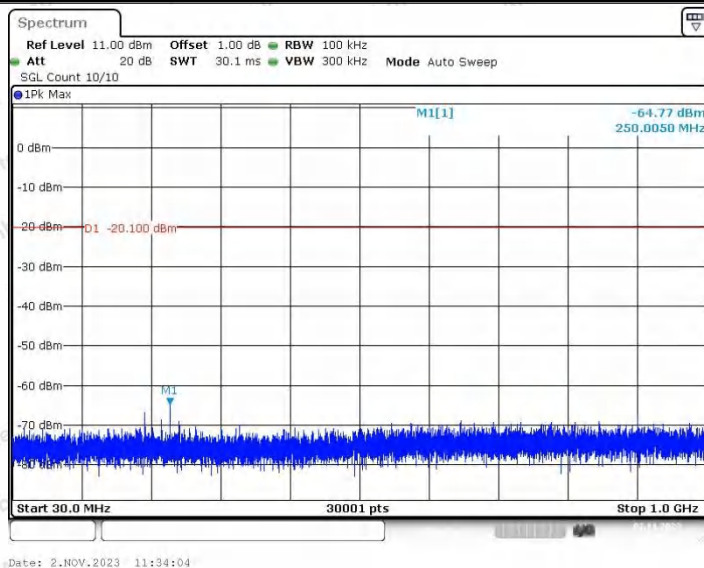
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

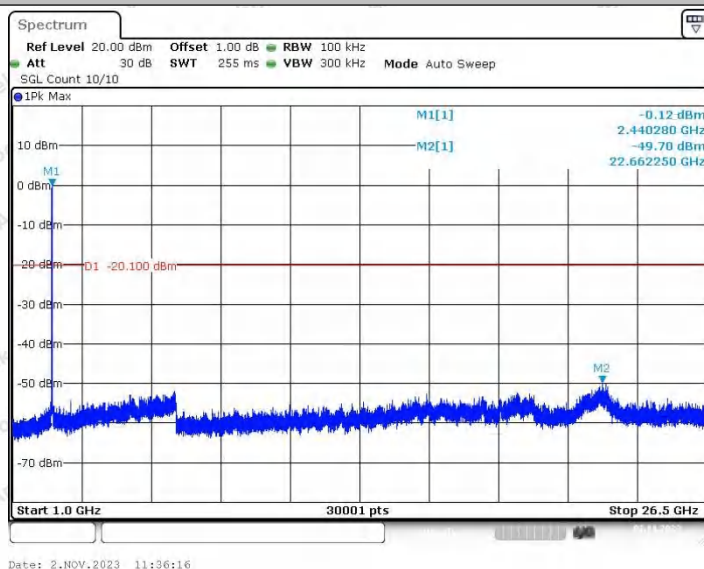


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11G_Ant2_2437_1000~26500



11G_Ant1_2462_0~Reference

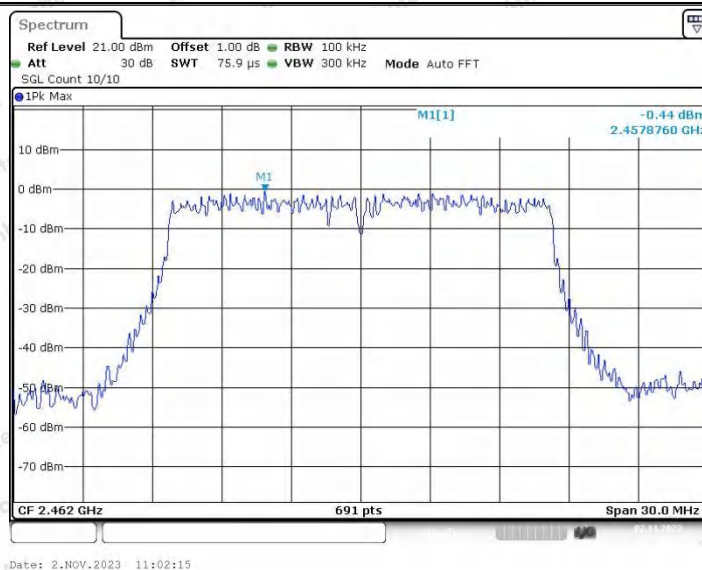
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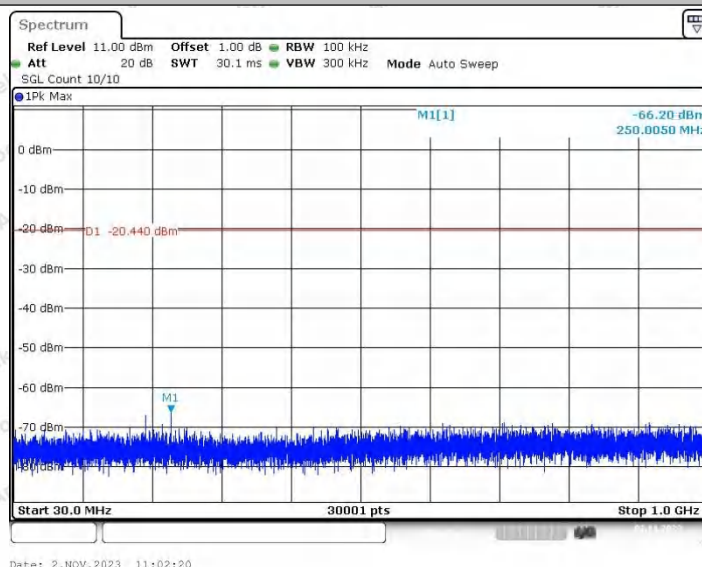


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11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

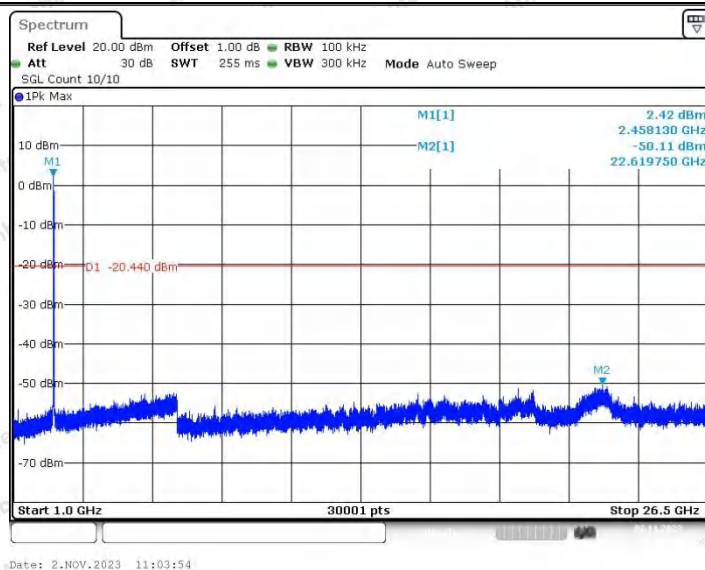
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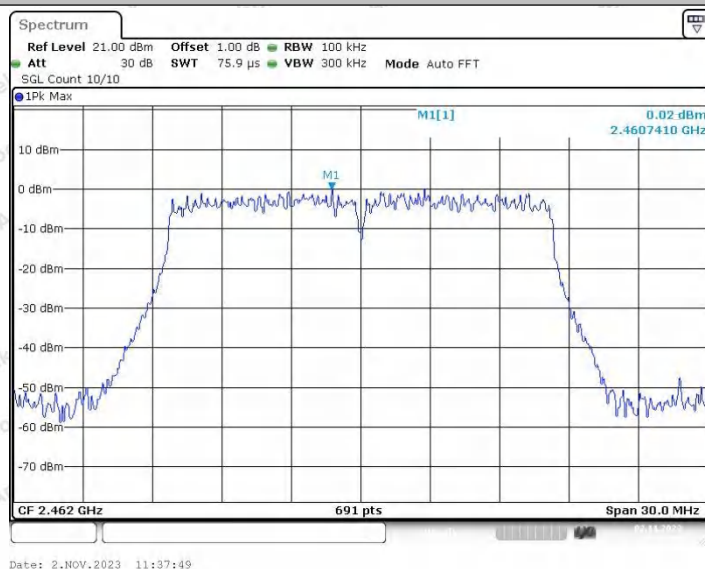


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11G_Ant2_2462_0~Reference



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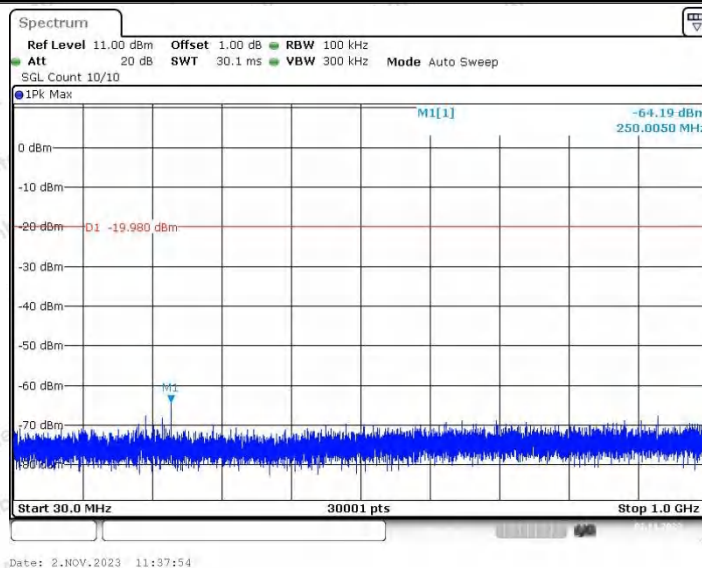
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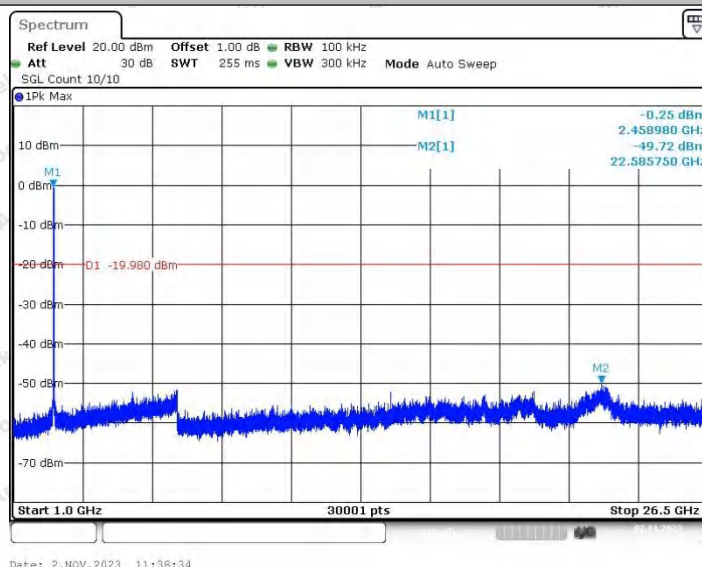


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11G_Ant2_2462_1000~26500



11N20ISO_Ant1_2412_0~Reference

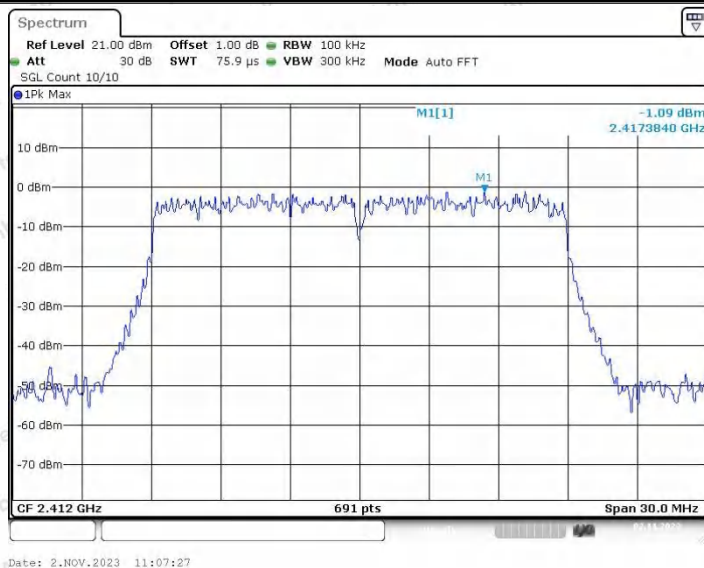
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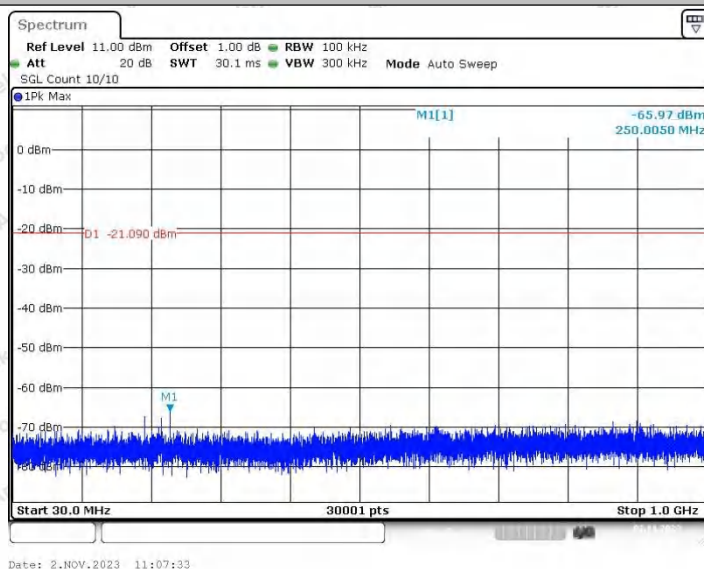


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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

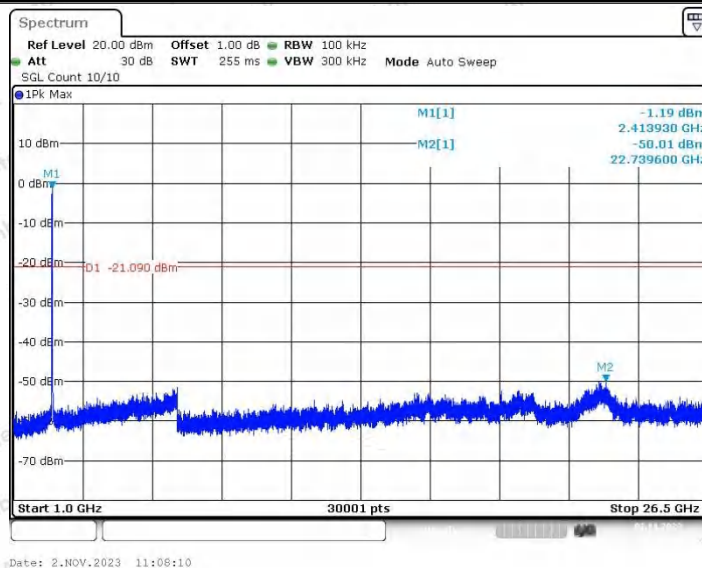
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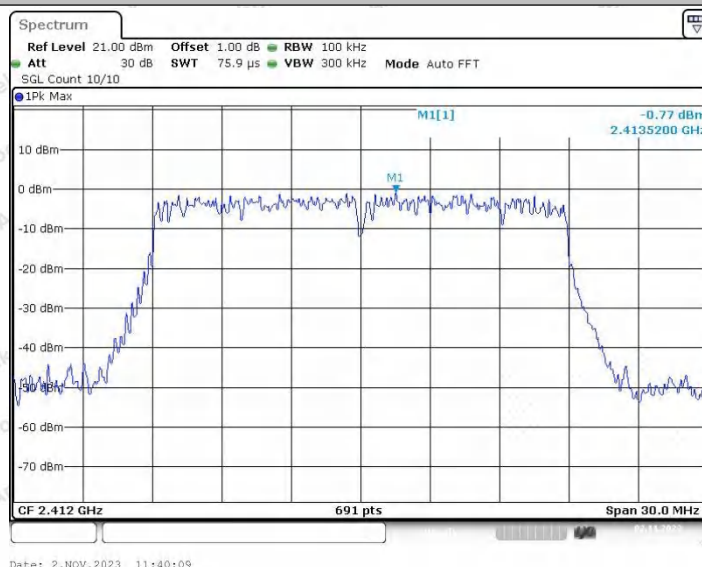


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11N20SISO_Ant2_2412_0~Reference



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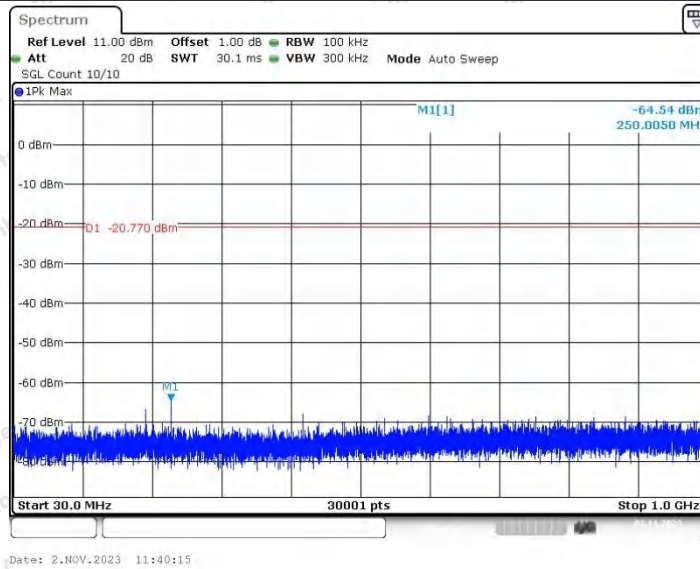
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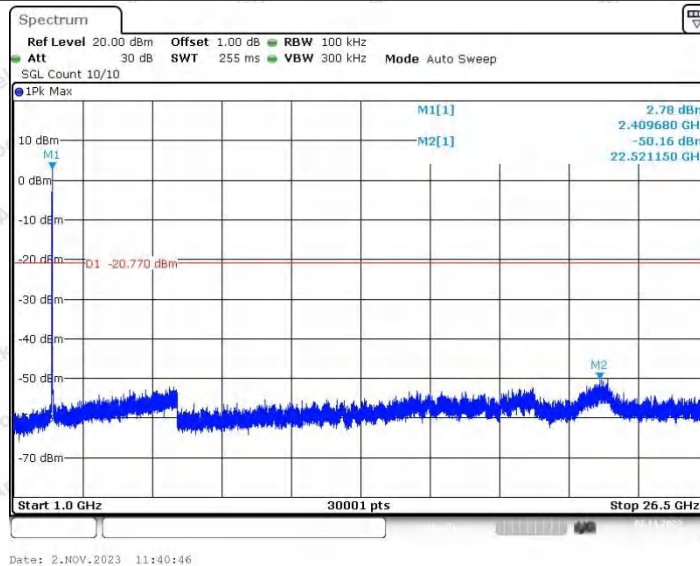


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11N20SISO_Ant2_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference

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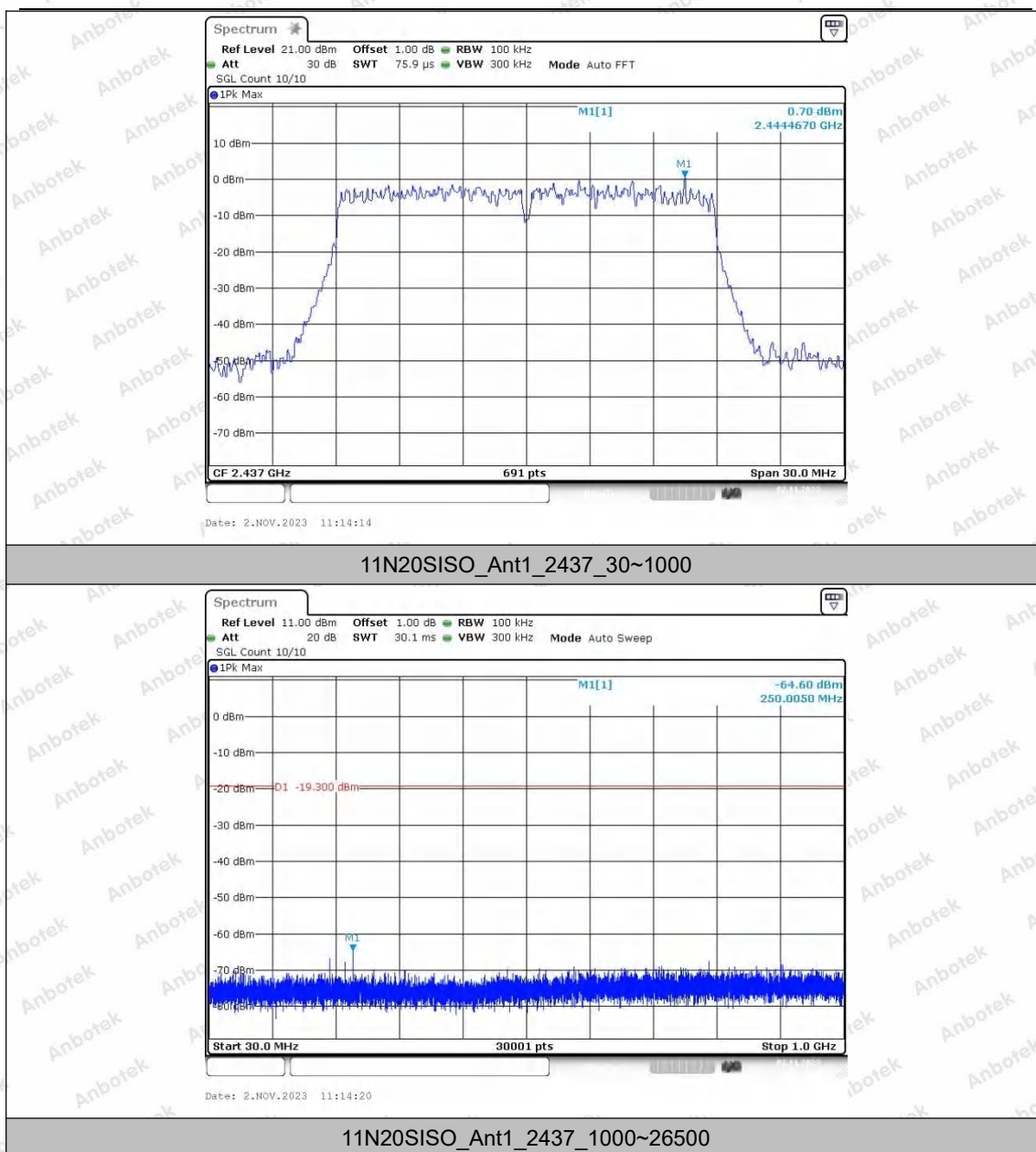


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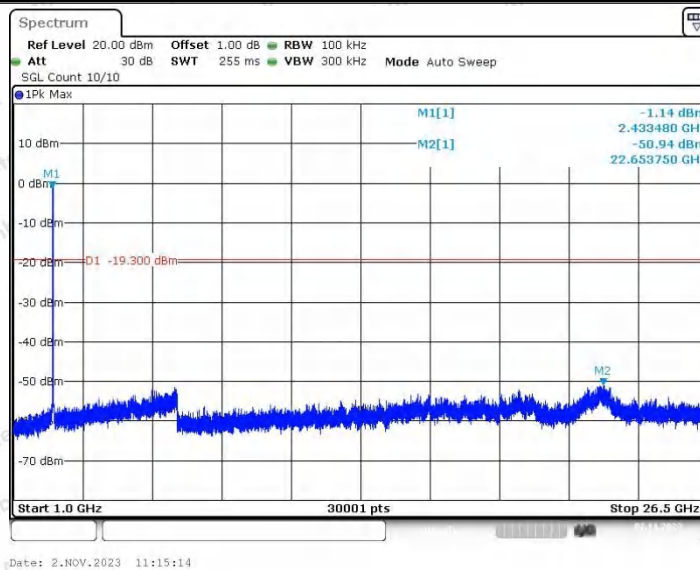
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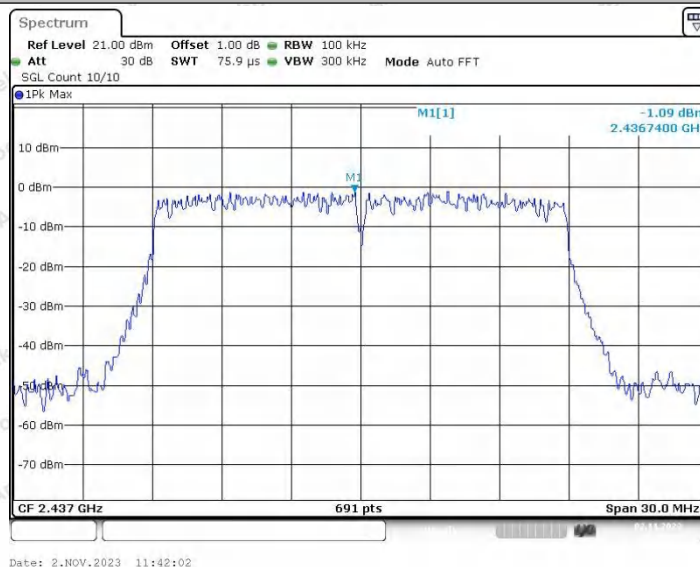


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11N20SISO_Ant2_2437_0~Reference



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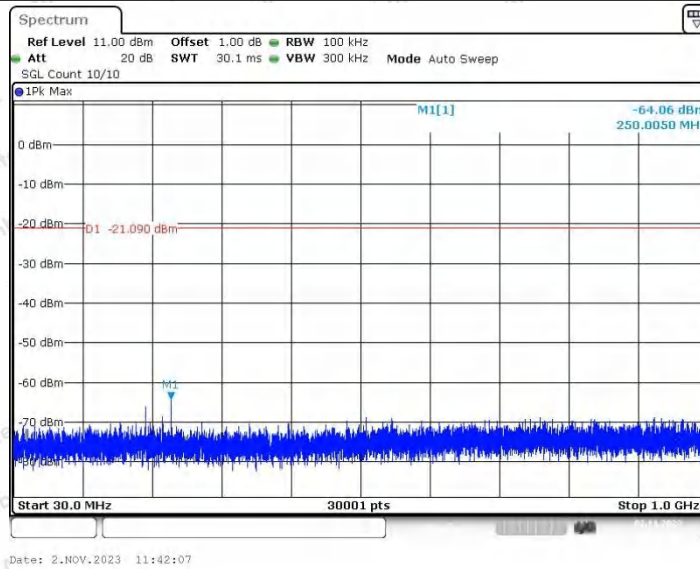
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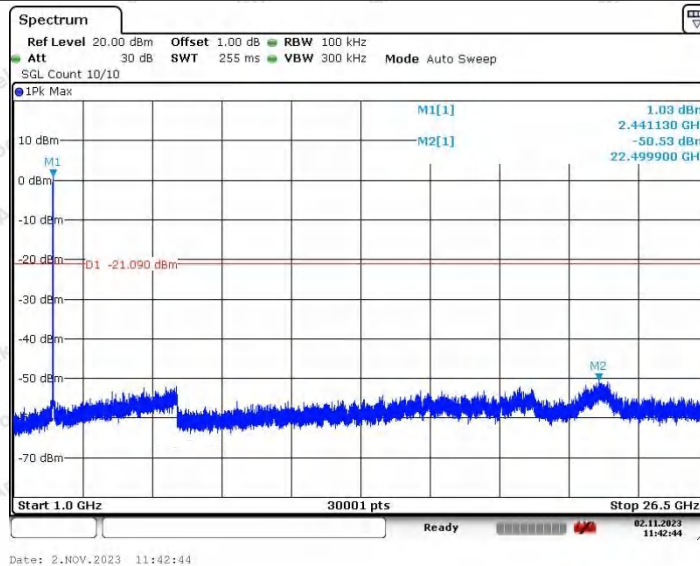


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11N20SISO_Ant2_2437_1000~26500



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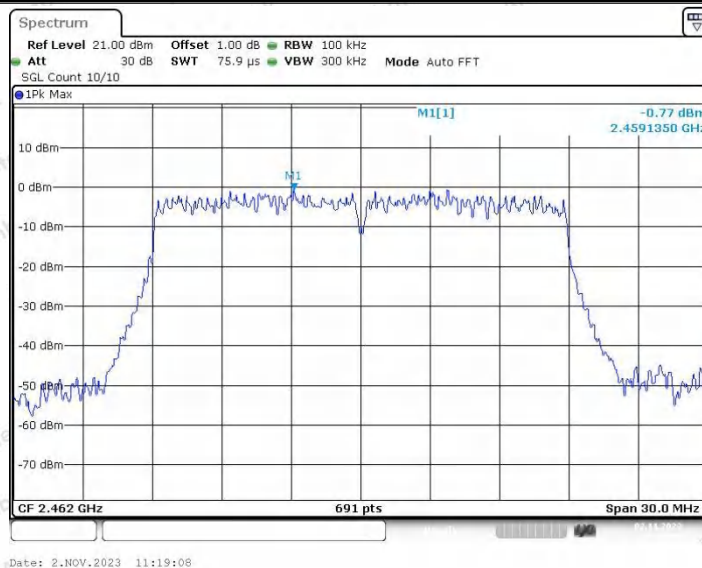
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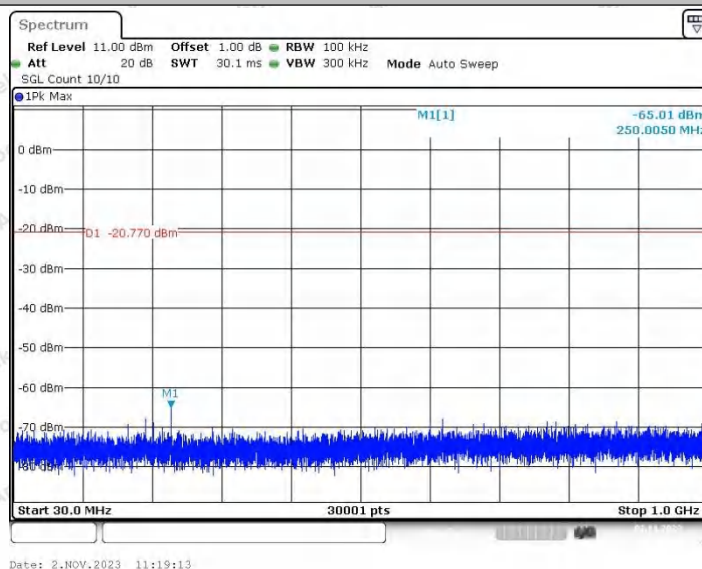


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11N20ISO_Ant1_2462_30~1000



11N20ISO_Ant1_2462_1000~26500

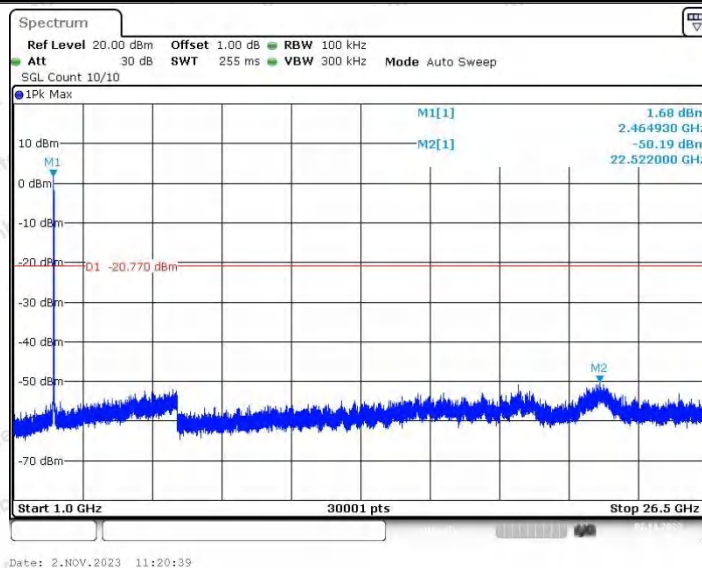
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

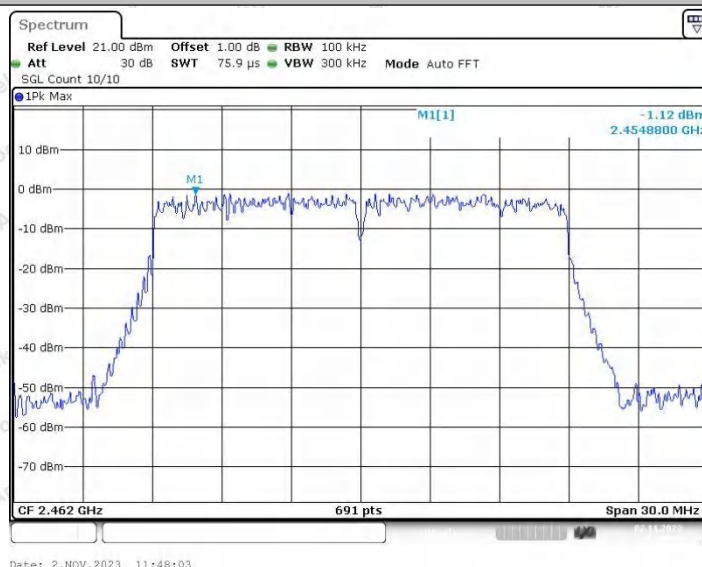


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11N20SISO_Ant2_2462_0~Reference



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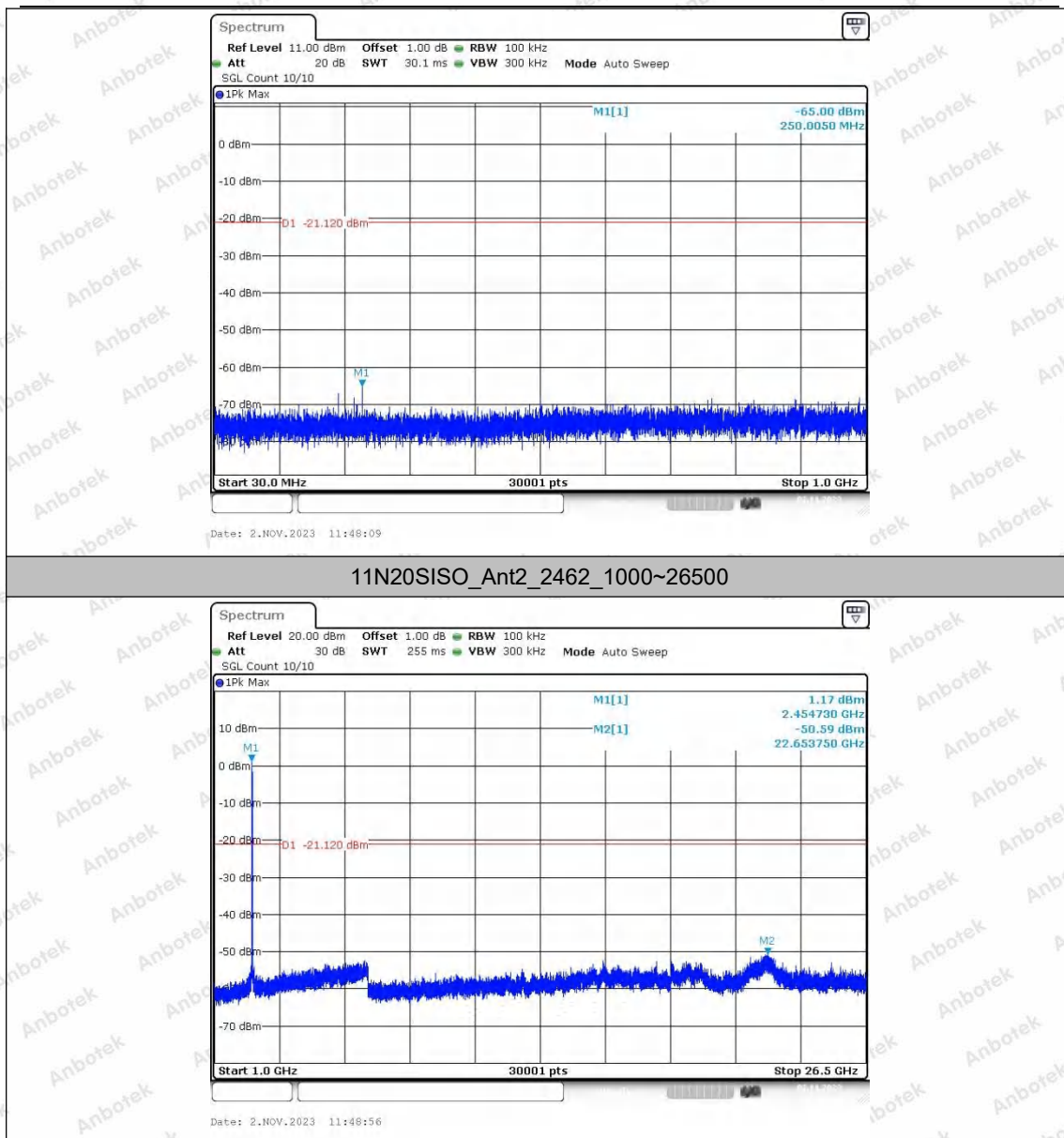
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Appendix G: Duty Cycle

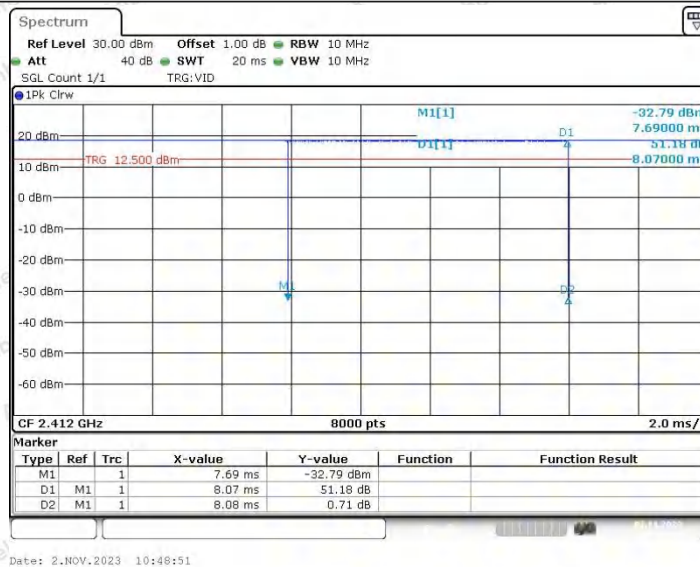
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.07	8.08	99.88	0.01
	Ant2	2412	8.07	8.08	99.88	0.01
	Ant1	2437	8.07	8.08	99.88	0.01
	Ant2	2437	8.07	8.07	100.00	0.00
	Ant1	2462	8.07	8.07	100.00	0.00
	Ant2	2462	8.07	8.08	99.88	0.01
11G	Ant1	2412	1.35	1.36	99.26	0.03
	Ant2	2412	1.35	1.36	99.26	0.03
	Ant1	2437	1.35	1.35	100.00	0.00
	Ant2	2437	1.35	1.36	99.26	0.03
	Ant1	2462	1.36	1.36	100.00	0.00
	Ant2	2462	1.35	1.36	99.26	0.03
11N20SISO	Ant1	2412	1.26	1.27	99.21	0.03
	Ant2	2412	1.27	1.27	100.00	0.00
	Ant1	2437	1.26	1.27	99.21	0.03
	Ant2	2437	1.26	1.27	99.21	0.03
	Ant1	2462	1.26	1.27	99.21	0.03
	Ant2	2462	1.26	1.27	99.21	0.03

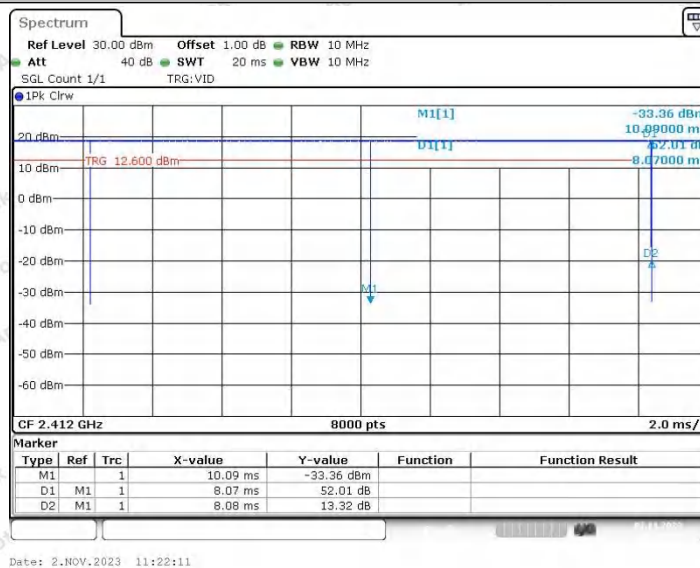


Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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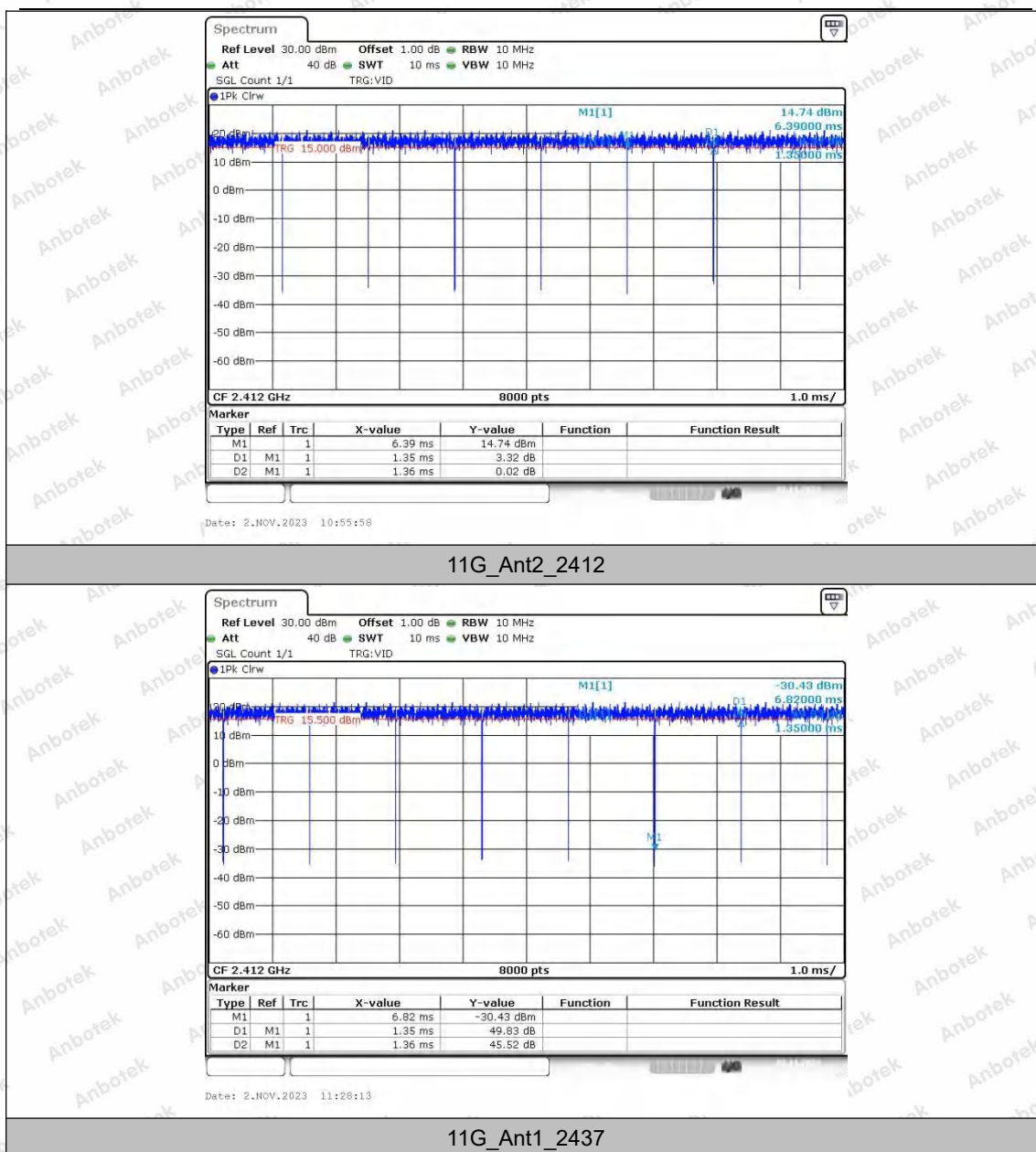
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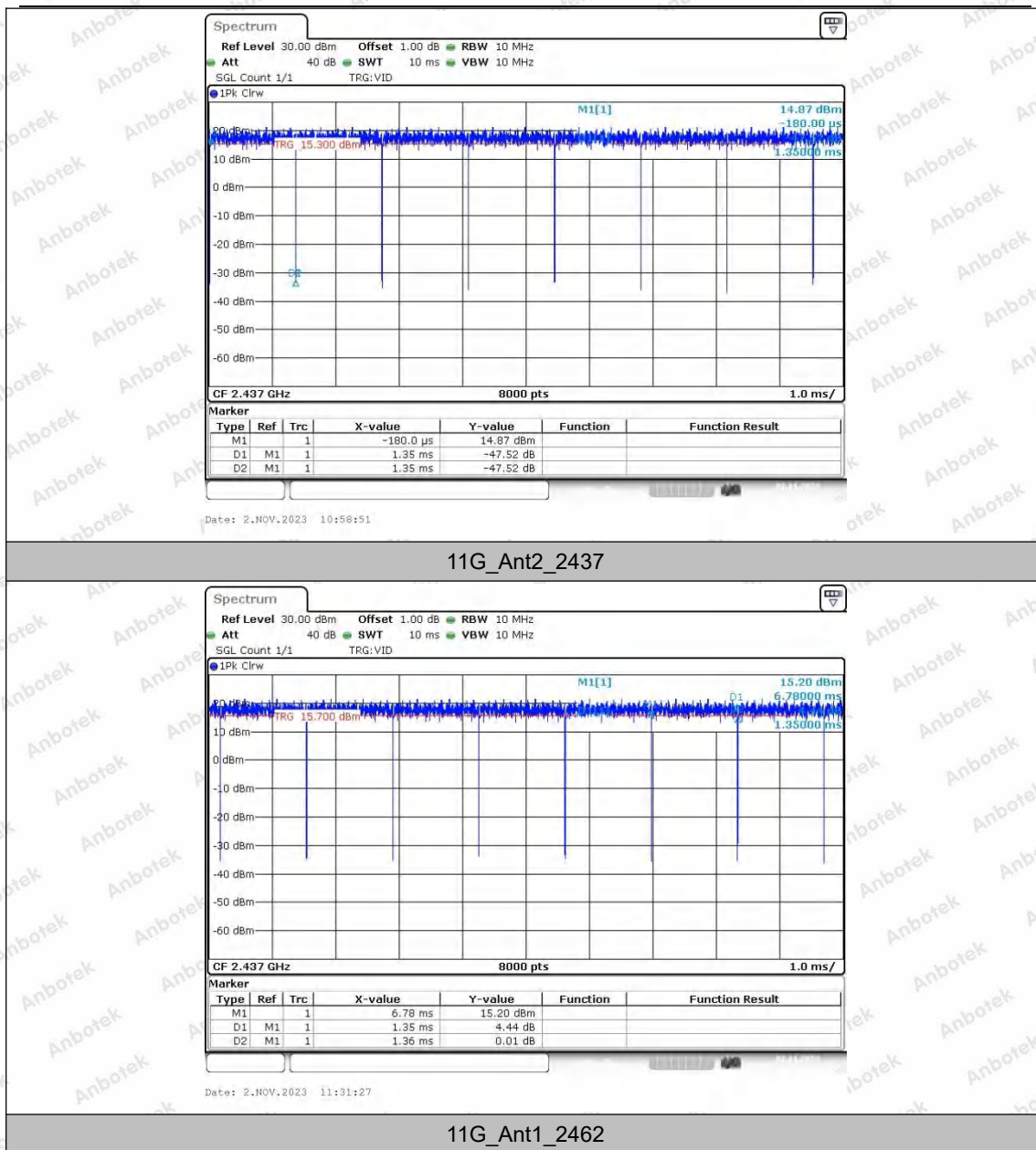
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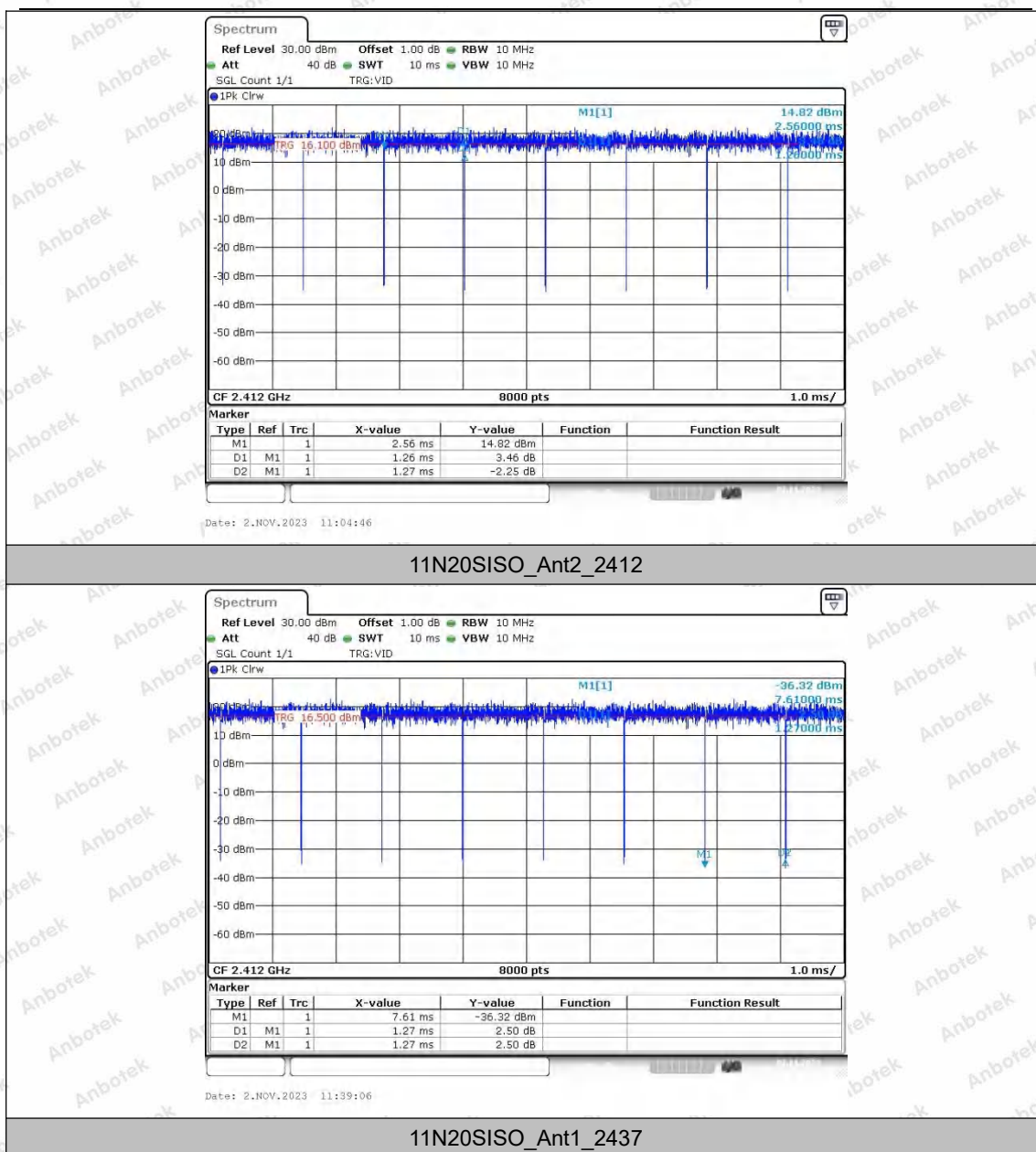
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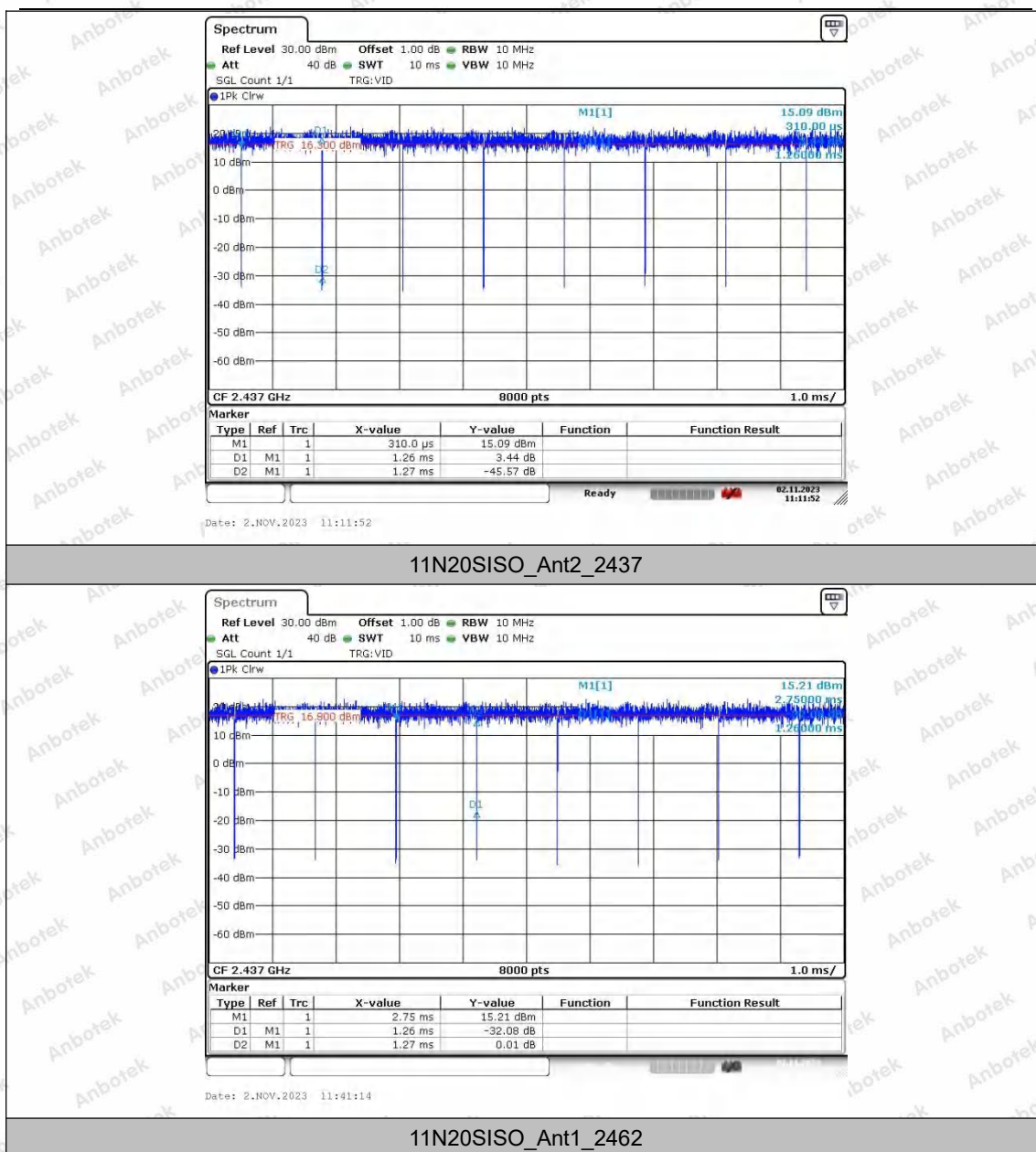
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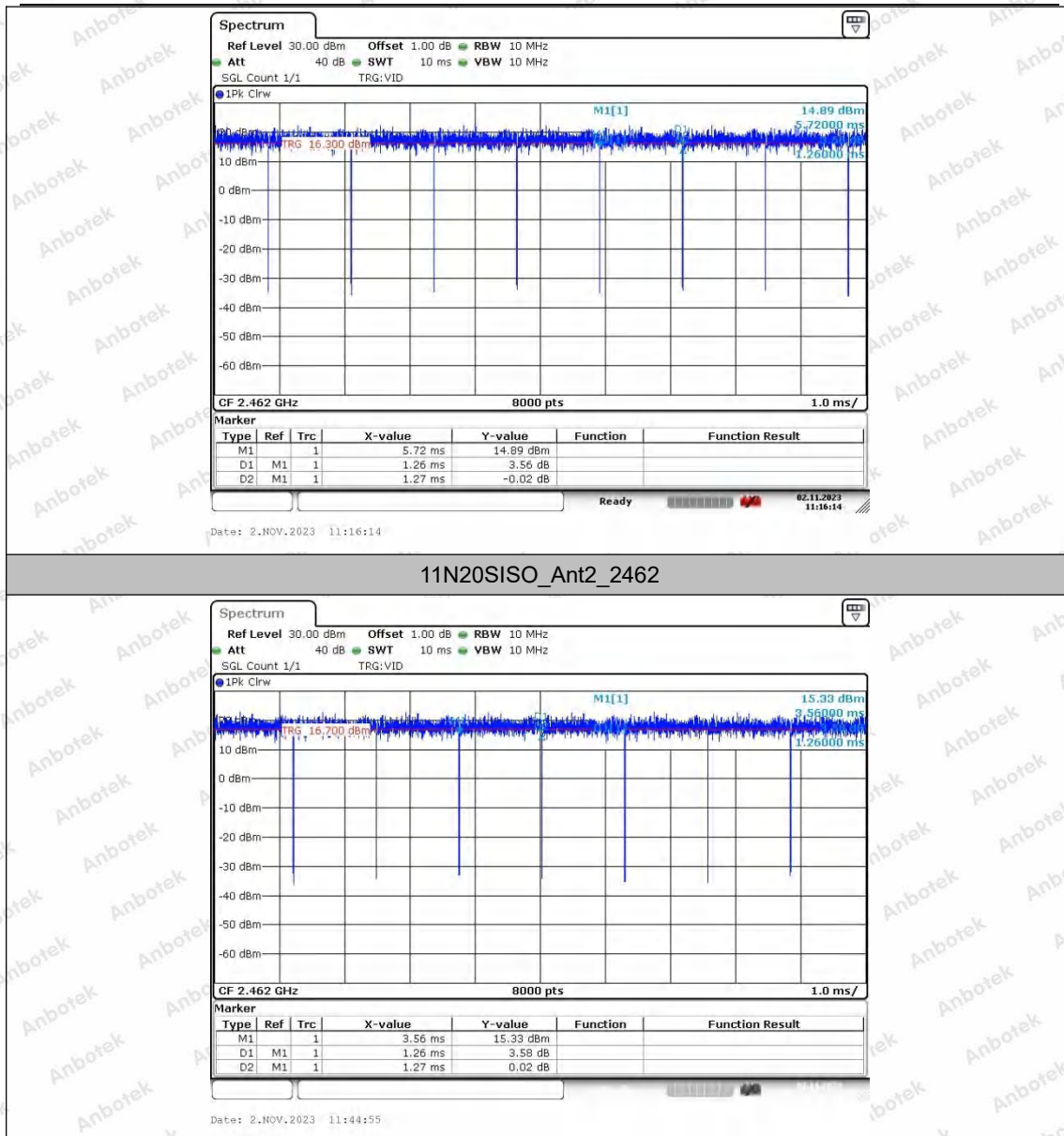
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