

Appendix Test Data

Report No.:	18220WC40019702	Test Sample No.:	1-2-2
Start Test Date:	2024.2.21	Finish Test Date:	2024.2.22
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
	Ant2	2412	10.040	2406.960	2417.000	0.5	PASS
	Ant1	2437	10.040	2431.960	2442.000	0.5	PASS
	Ant2	2437	10.120	2431.920	2442.040	0.5	PASS
	Ant1	2462	9.840	2457.200	2467.040	0.5	PASS
	Ant2	2462	10.040	2456.960	2467.000	0.5	PASS
11G-CDD	Ant1	2412	16.120	2404.040	2420.160	0.5	PASS
	Ant2	2412	16.040	2404.080	2420.120	0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant2	2437	15.920	2428.840	2444.760	0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
	Ant2	2462	15.640	2454.120	2469.760	0.5	PASS
11N20MIMO	Ant1	2412	16.920	2403.480	2420.400	0.5	PASS
	Ant2	2412	16.920	2403.440	2420.360	0.5	PASS
	Ant1	2437	16.520	2428.600	2445.120	0.5	PASS
	Ant2	2437	17.560	2428.200	2445.760	0.5	PASS
	Ant1	2462	16.040	2453.480	2469.520	0.5	PASS
	Ant2	2462	15.000	2454.480	2469.480	0.5	PASS
11N40MIMO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
	Ant2	2422	34.000	2405.520	2439.520	0.5	PASS
	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS

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	Ant1	2452	34.960	2434.560	2469.520	0.5	PASS
	Ant2	2452	35.040	2434.480	2469.520	0.5	PASS

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Test Graphs

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



11B-CDD_Ant1_2437

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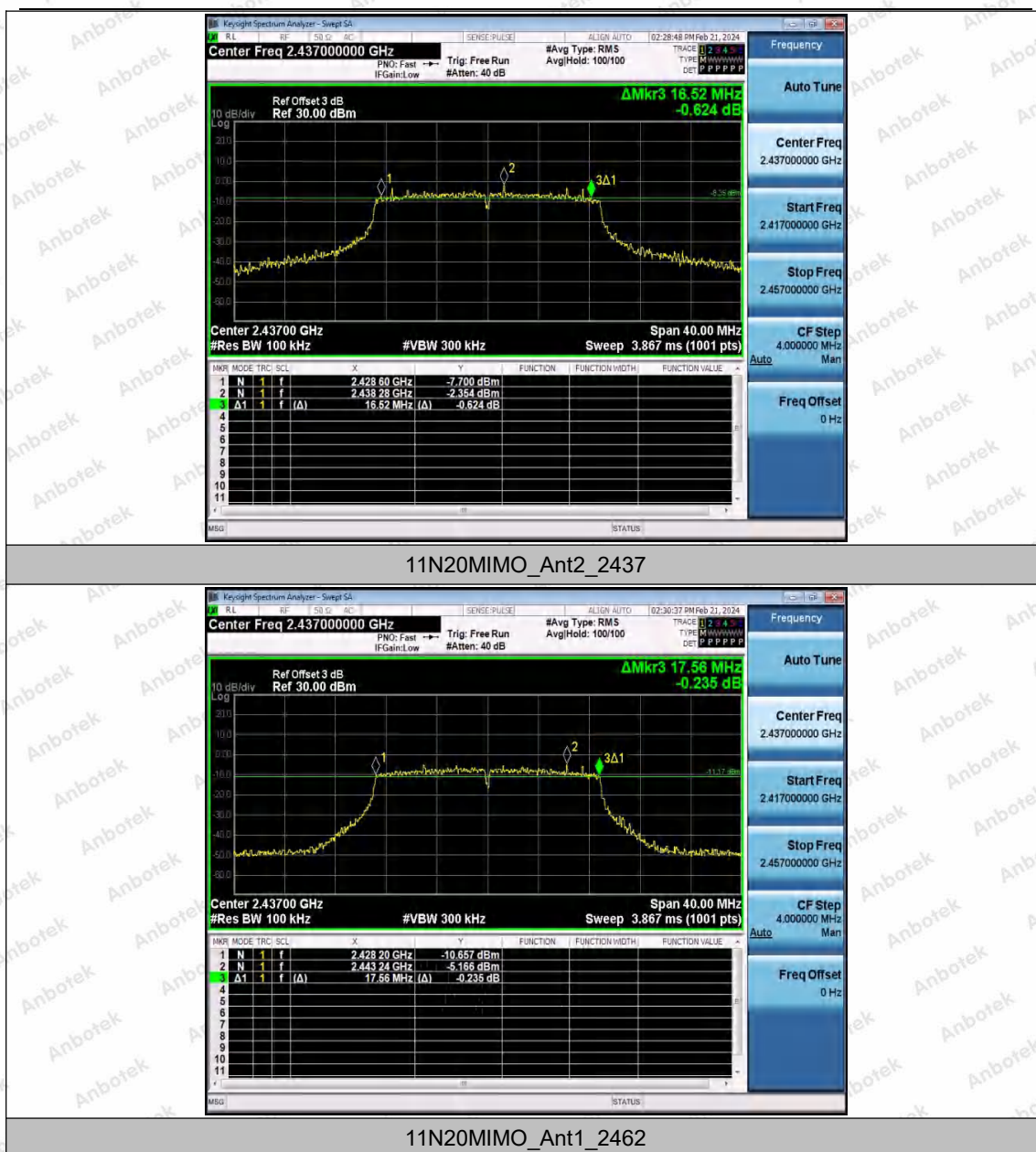
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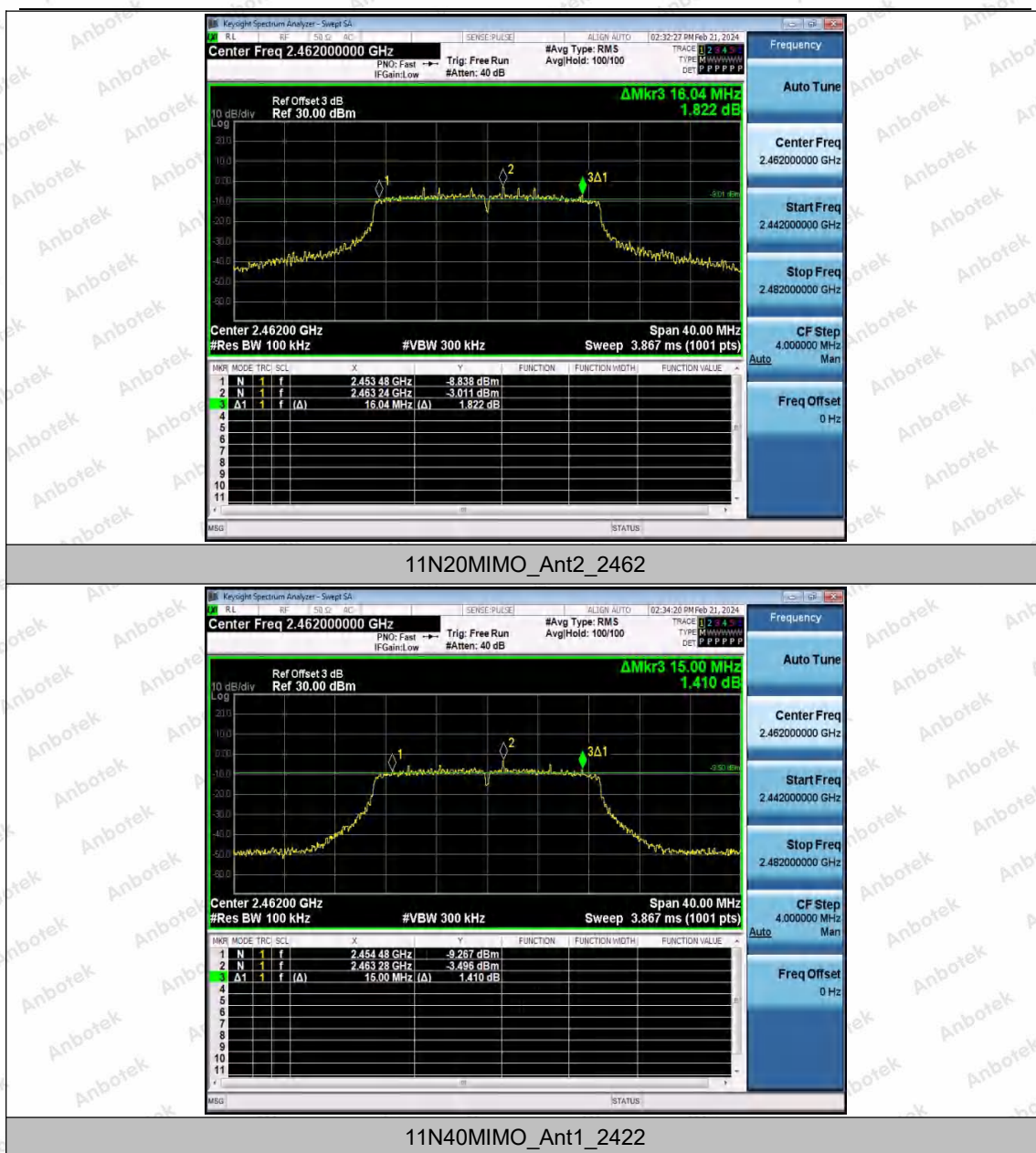
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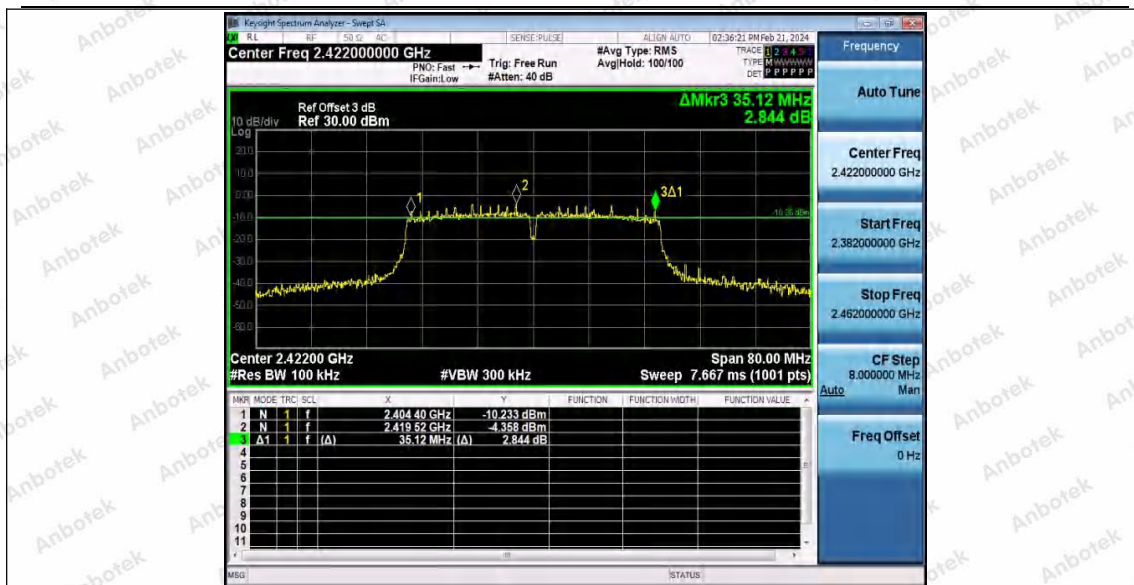
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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437

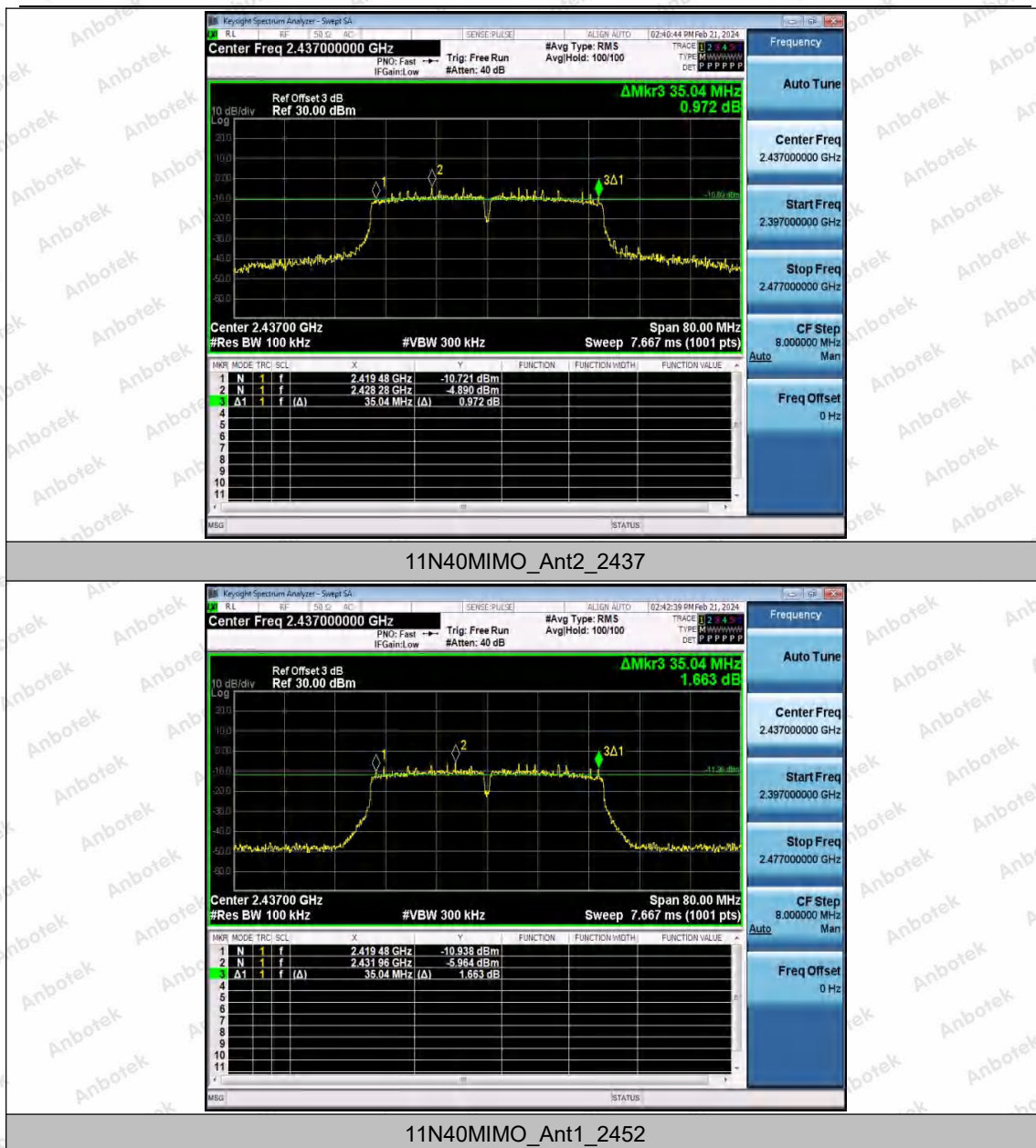
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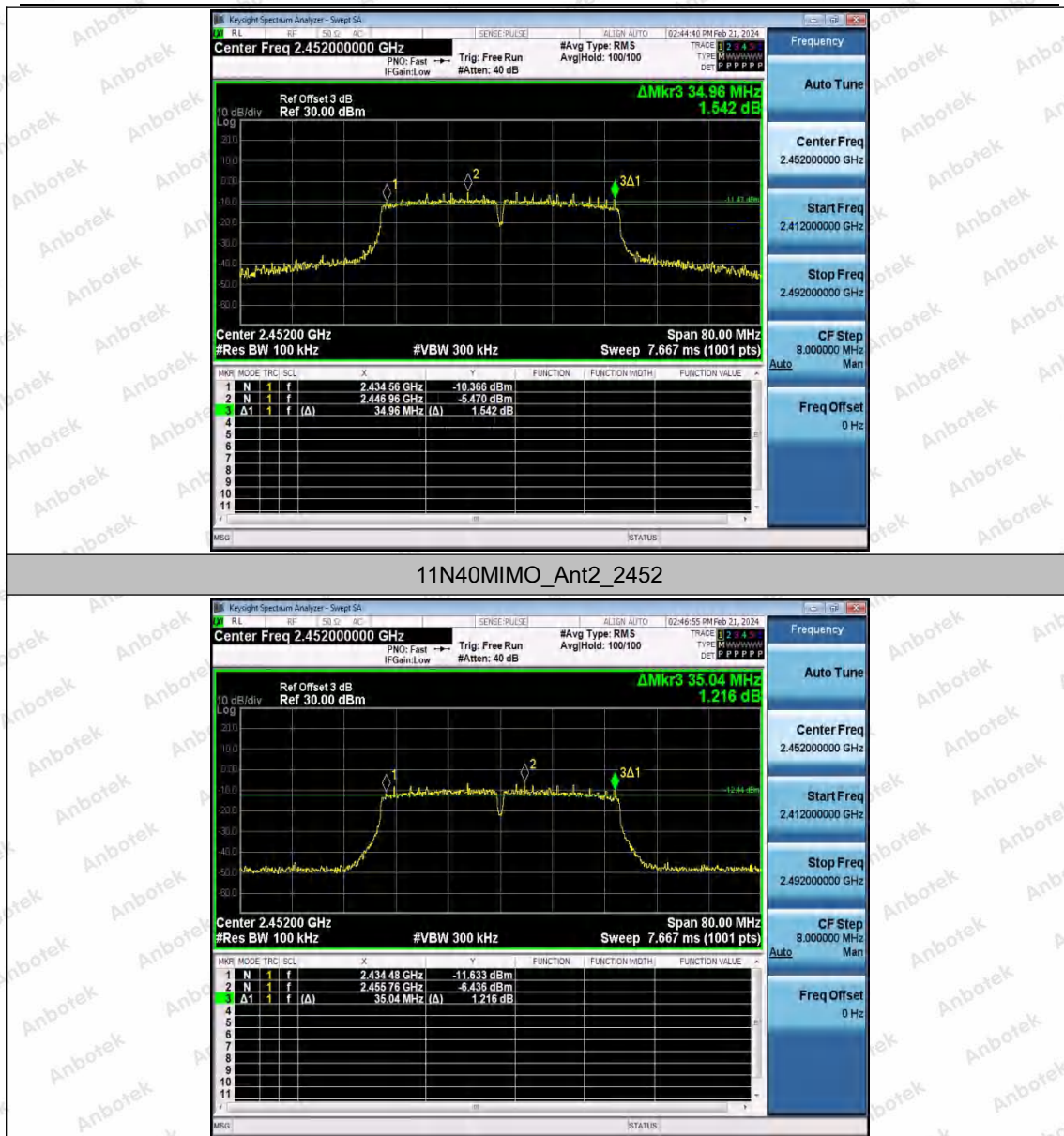
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Appendix B: Occupied Channel Bandwidth

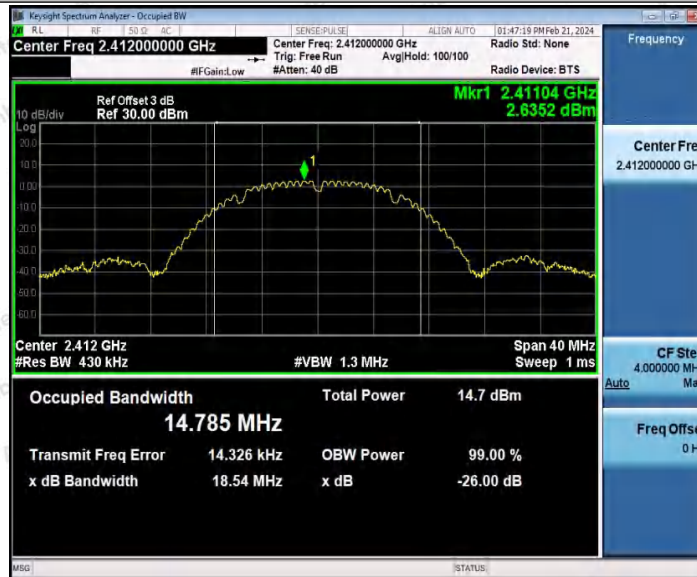
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	14.785	2404.6218	2419.4068	---	---
	Ant2	2412	14.659	2404.6876	2419.3466	---	---
	Ant1	2437	14.827	2429.5718	2444.3988	---	---
	Ant2	2437	14.676	2429.6508	2444.3268	---	---
	Ant1	2462	14.902	2454.5124	2469.4144	---	---
	Ant2	2462	14.683	2454.6354	2469.3184	---	---
11G-CDD	Ant1	2412	16.817	2403.5920	2420.4090	---	---
	Ant2	2412	16.695	2403.6629	2420.3579	---	---
	Ant1	2437	16.817	2428.5776	2445.3946	---	---
	Ant2	2437	16.721	2428.6351	2445.3561	---	---
	Ant1	2462	16.900	2453.5497	2470.4497	---	---
	Ant2	2462	16.757	2453.6600	2470.4170	---	---
11N20MIMO	Ant1	2412	18.012	2403.0212	2421.0332	---	---
	Ant2	2412	17.846	2403.0967	2420.9427	---	---
	Ant1	2437	17.940	2428.0372	2445.9772	---	---
	Ant2	2437	17.843	2428.0827	2445.9257	---	---
	Ant1	2462	18.023	2453.0178	2471.0408	---	---
	Ant2	2462	17.894	2453.0612	2470.9552	---	---
11N40MIMO	Ant1	2422	36.407	2403.8815	2440.2885	---	---
	Ant2	2422	36.199	2403.9701	2440.1691	---	---
	Ant1	2437	36.271	2418.8726	2455.1436	---	---
	Ant2	2437	36.200	2418.9196	2455.1196	---	---
	Ant1	2452	36.224	2433.8716	2470.0956	---	---
	Ant2	2452	36.209	2433.9073	2470.1163	---	---

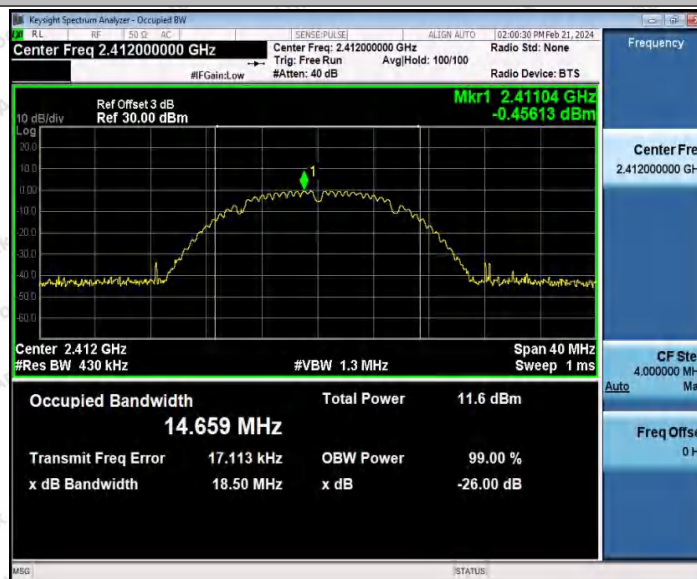


Test Graphs

11B-CDD_Ant1_2412

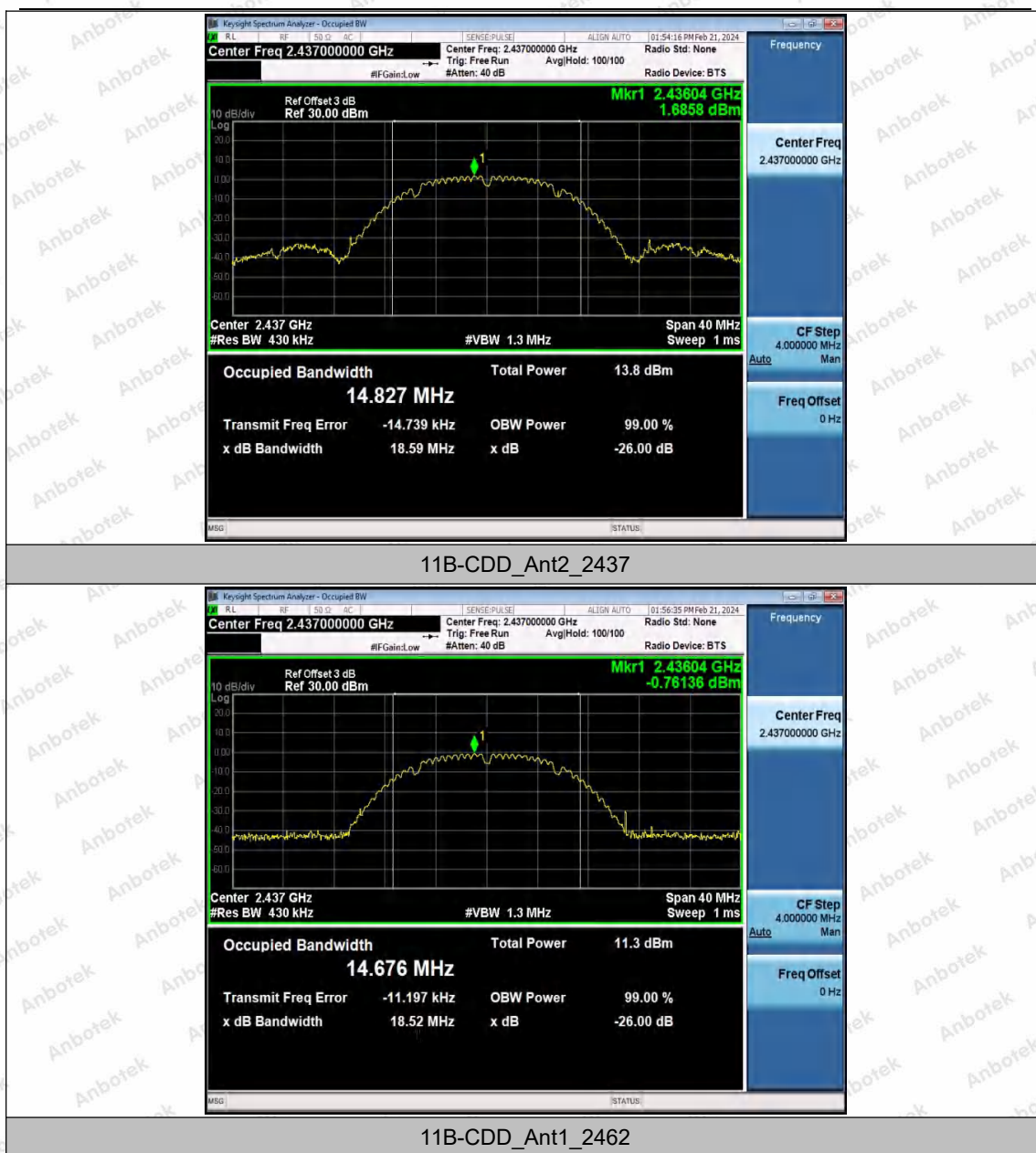


11B-CDD_Ant2_2412



11B-CDD_Ant1_2437





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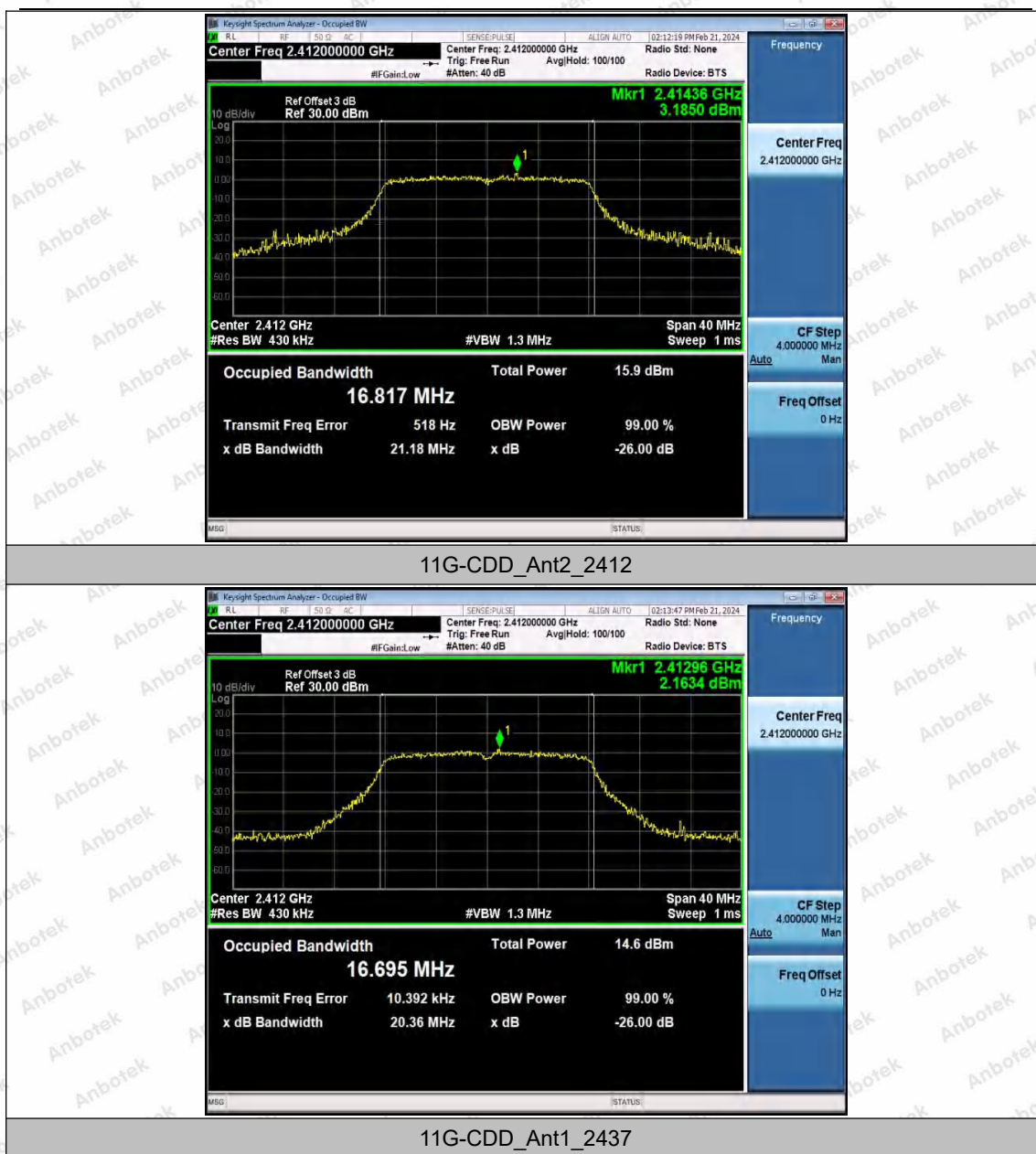
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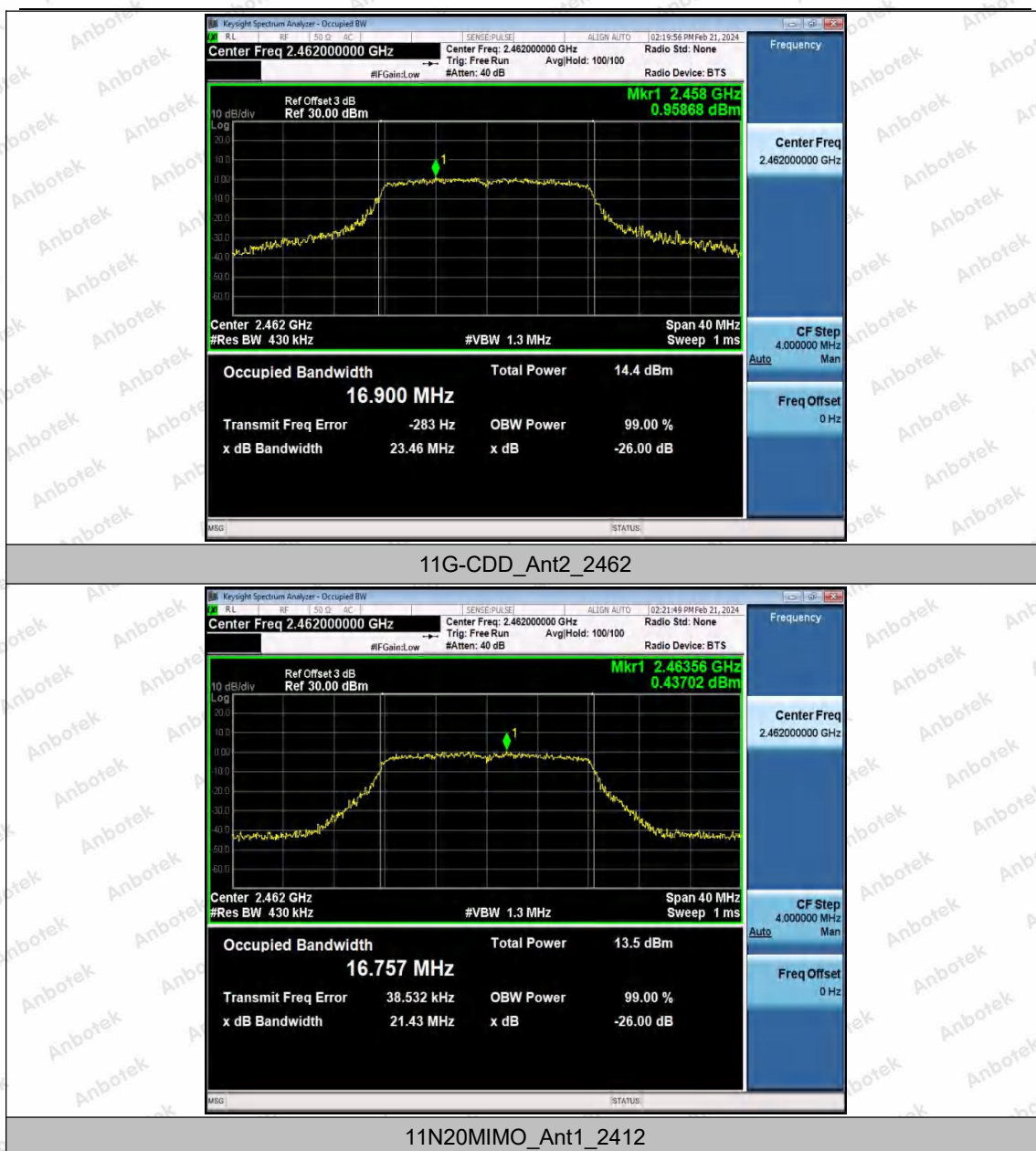
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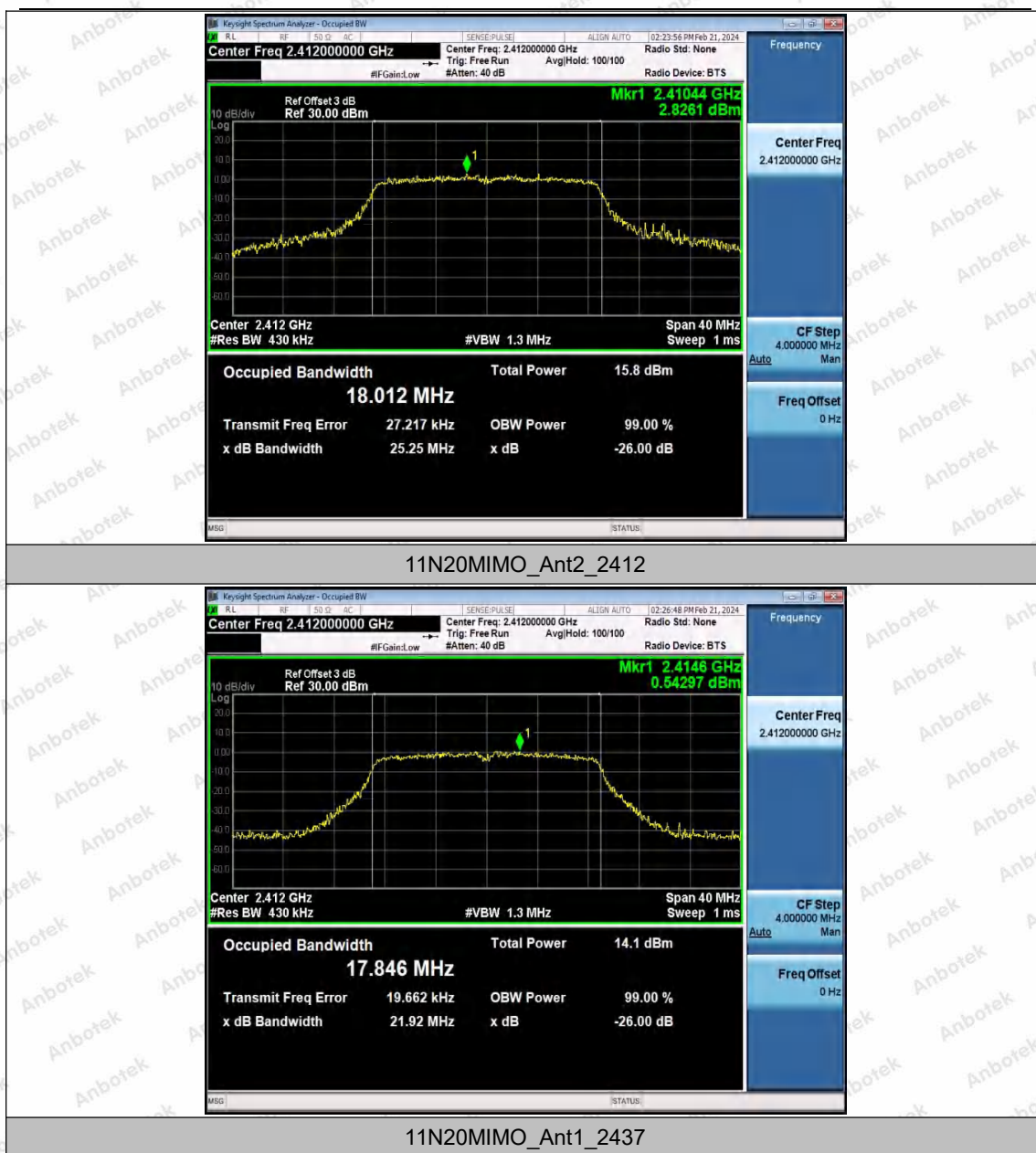
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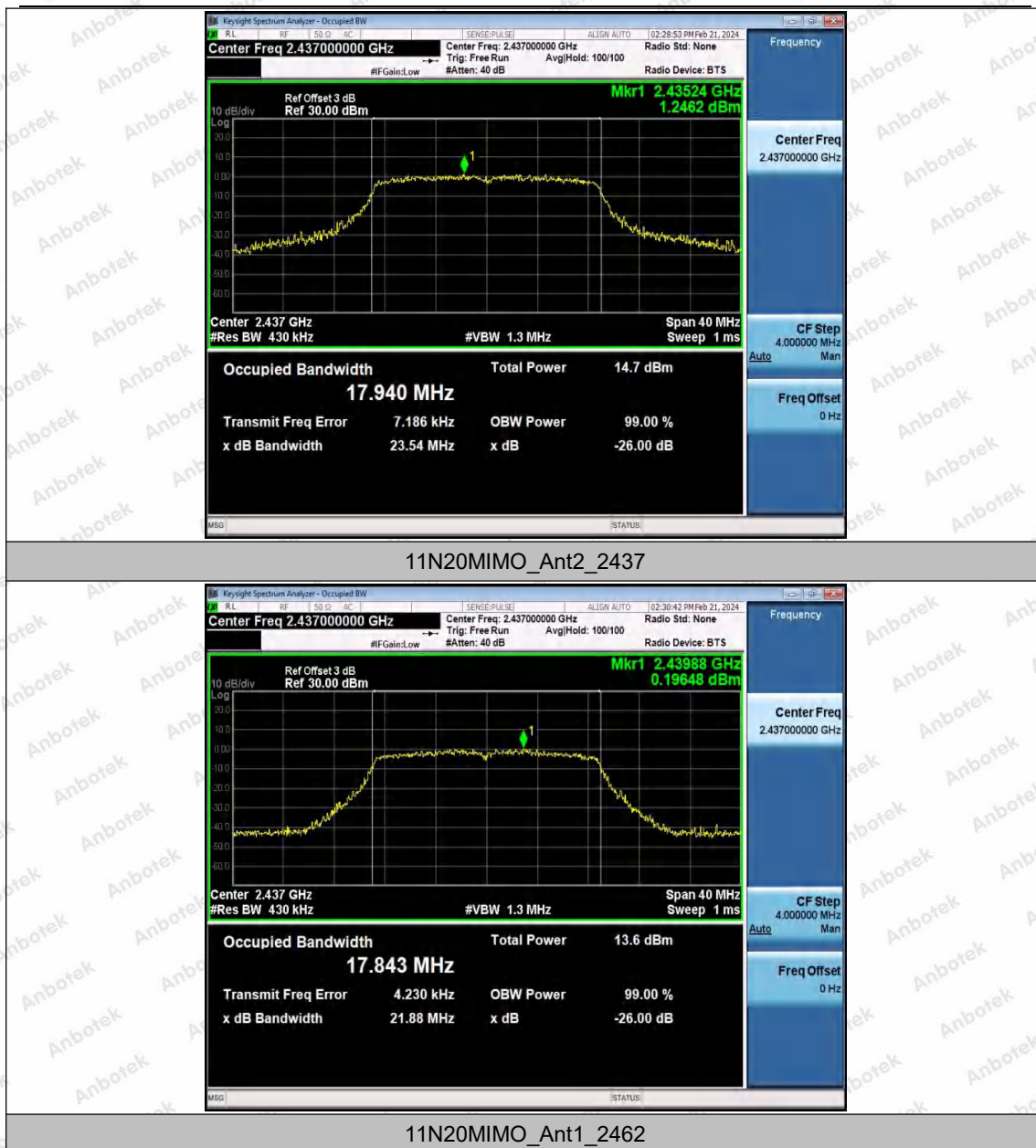
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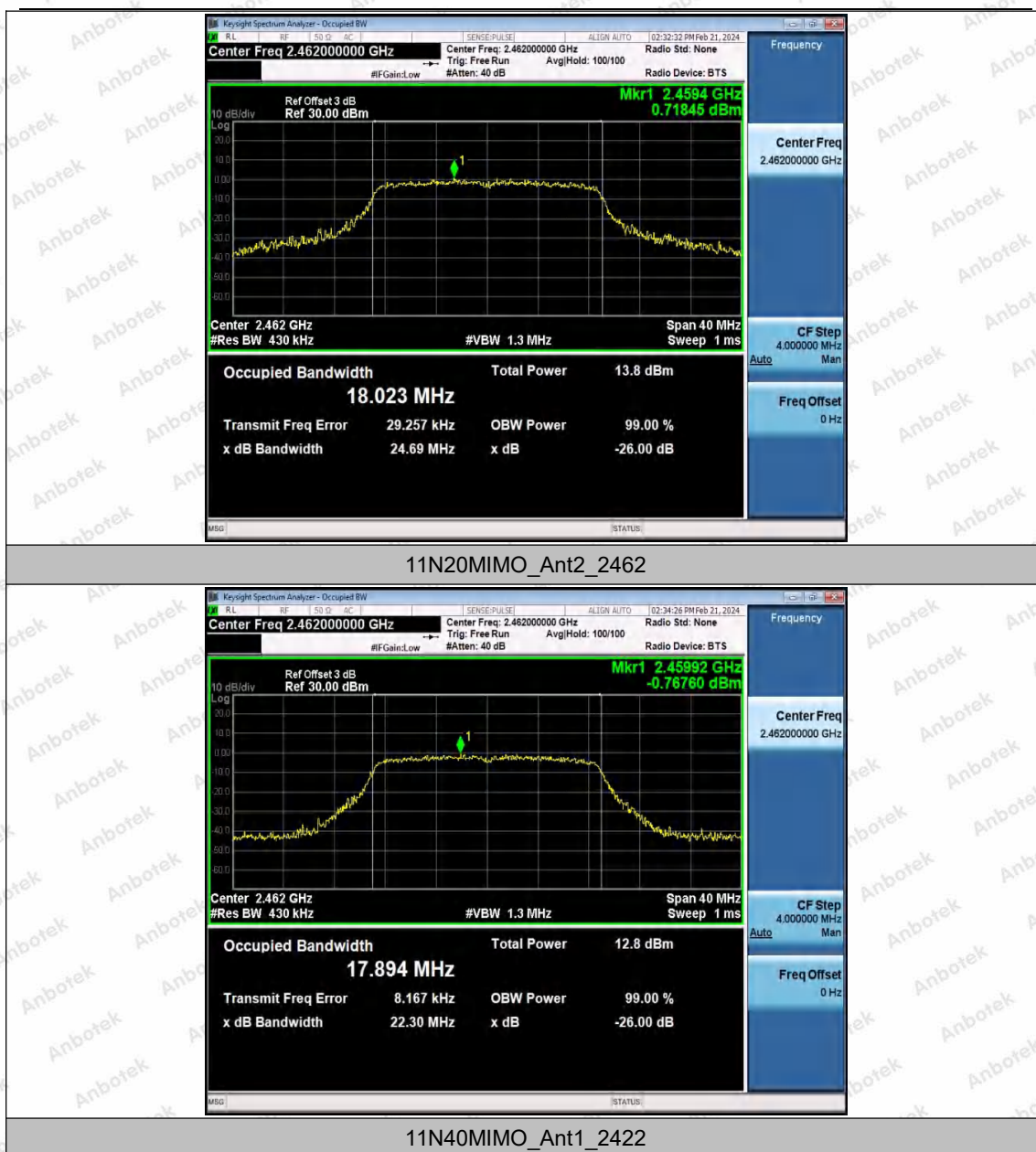
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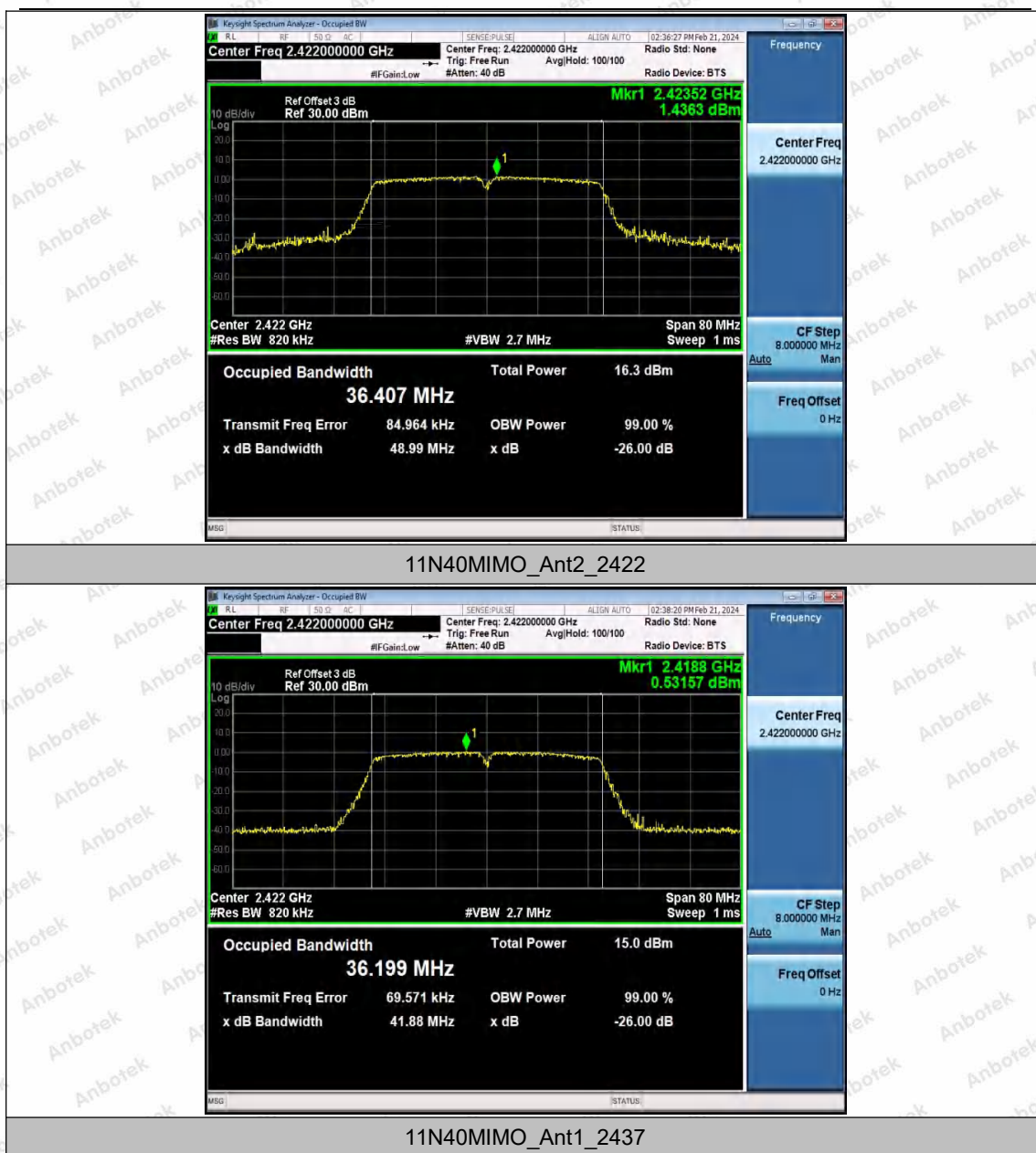
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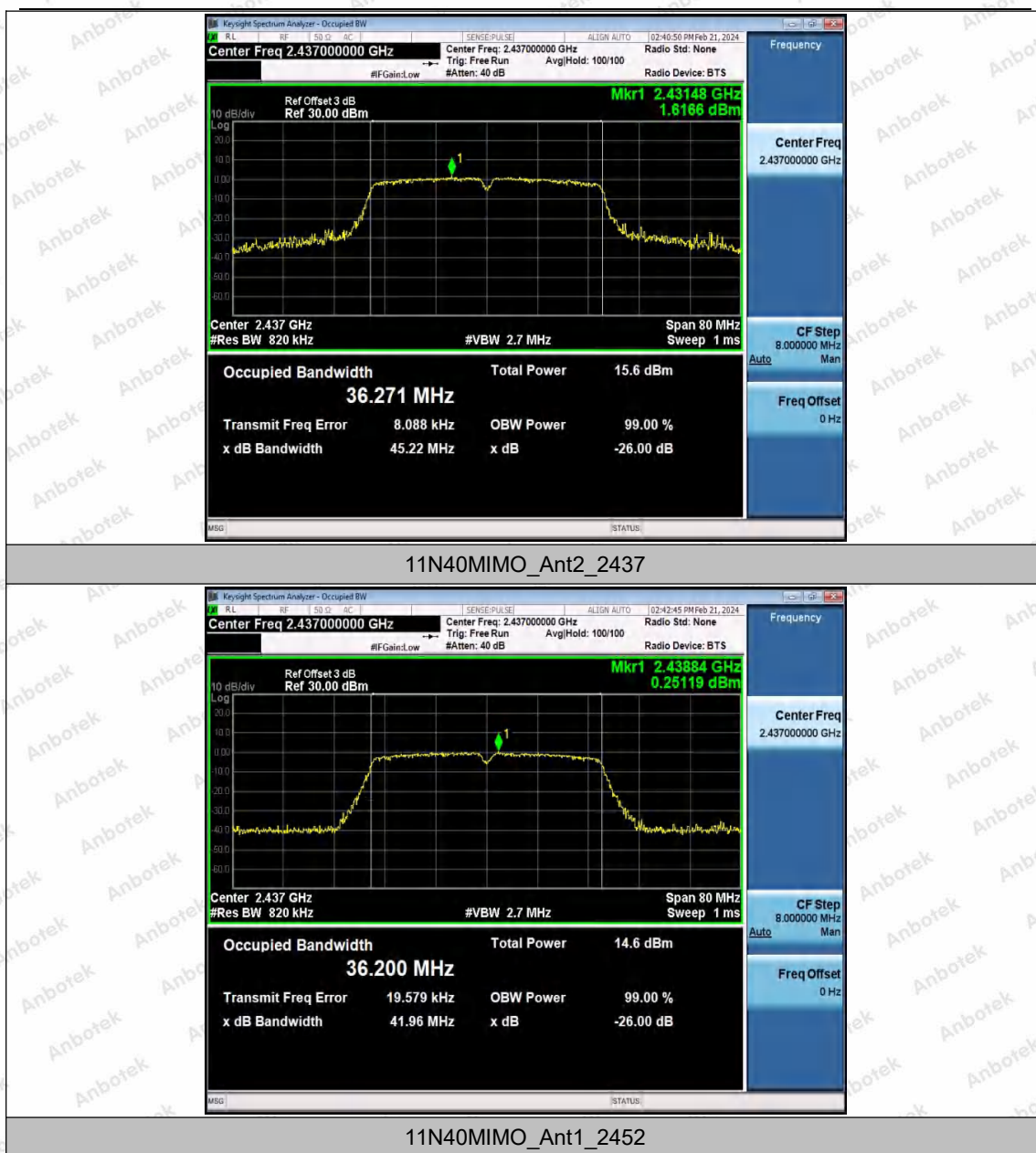
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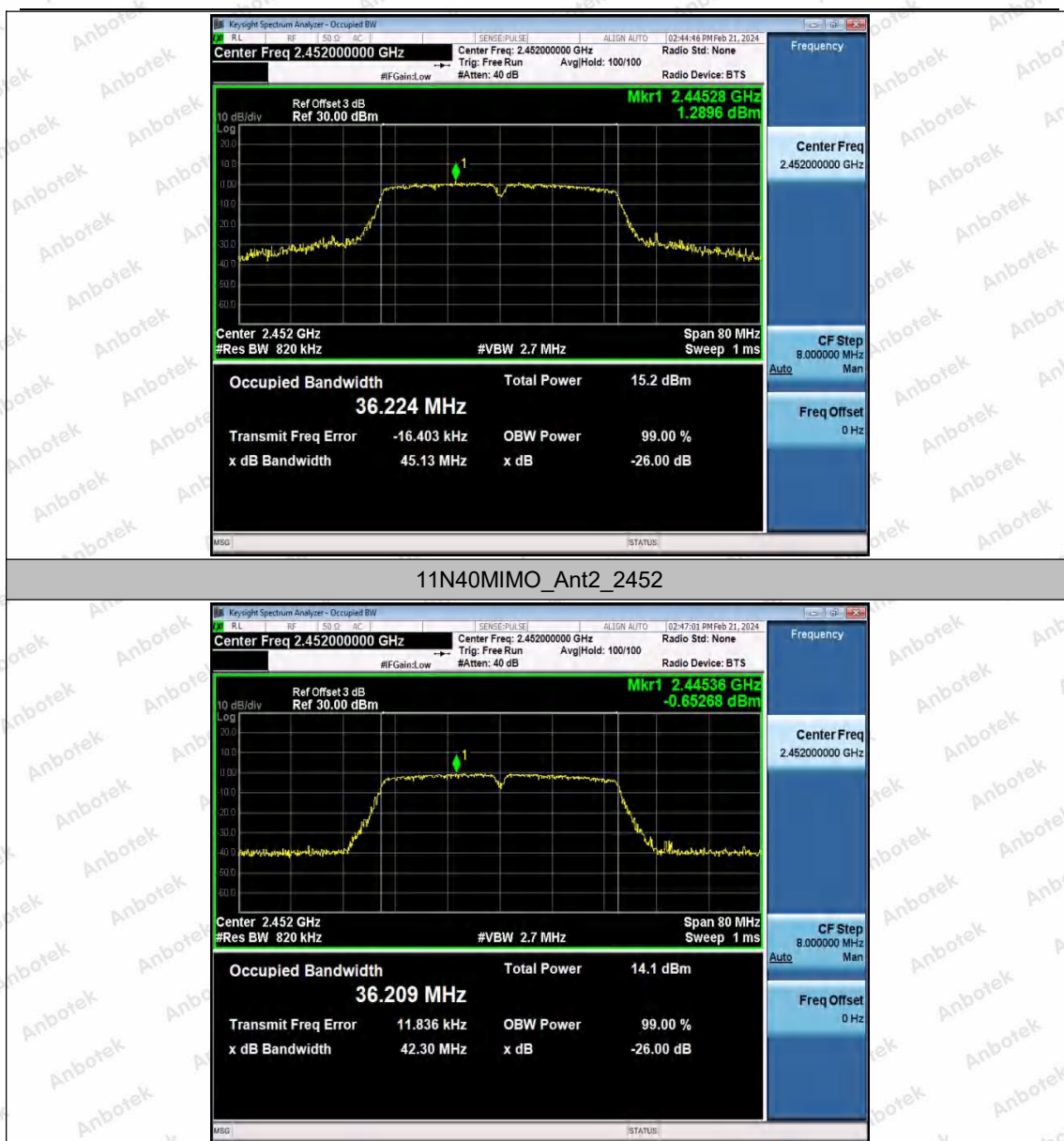
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B-CDD	Ant1	2412	12.48	≤30.00
	Ant2	2412	9.36	≤30.00
	Ant1	2437	11.54	≤30.00
	Ant2	2437	9.04	≤30.00
	Ant1	2462	11.31	≤30.00
	Ant2	2462	8.42	≤30.00
11G-CDD	Ant1	2412	13.89	≤30.00
	Ant2	2412	12.61	≤30.00
	Ant1	2437	12.97	≤30.00
	Ant2	2437	12.03	≤30.00
	Ant1	2462	12.15	≤30.00
	Ant2	2462	11.40	≤30.00
11N20MIMO	Ant1	2412	13.32	≤30.00
	Ant2	2412	12.13	≤30.00
	total	2412	15.78	≤29.93
	Ant1	2437	12.59	≤30.00
	Ant2	2437	11.46	≤30.00
	total	2437	15.07	≤29.93
	Ant1	2462	11.66	≤30.00
	Ant2	2462	10.85	≤30.00
11N40MIMO	total	2462	14.28	≤29.93
	Ant1	2422	13.82	≤30.00
	Ant2	2422	12.52	≤30.00
	total	2422	16.23	≤29.93
	Ant1	2437	13.31	≤30.00
	Ant2	2437	12.12	≤30.00
	total	2437	15.77	≤29.93
	Ant1	2452	12.67	≤30.00
	Ant2	2452	11.69	≤30.00
	total	2452	15.22	≤29.93

Note:

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

2.As Directional gain = $10 \log[(10G_1/20 + 10G_2/20) \cdot 2 / NANT]$ dBi=6.07>6dBi,

so limit=30-(6.07-6.00)=29.93dBm.



Test Graphs

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



11B-CDD_Ant1_2437

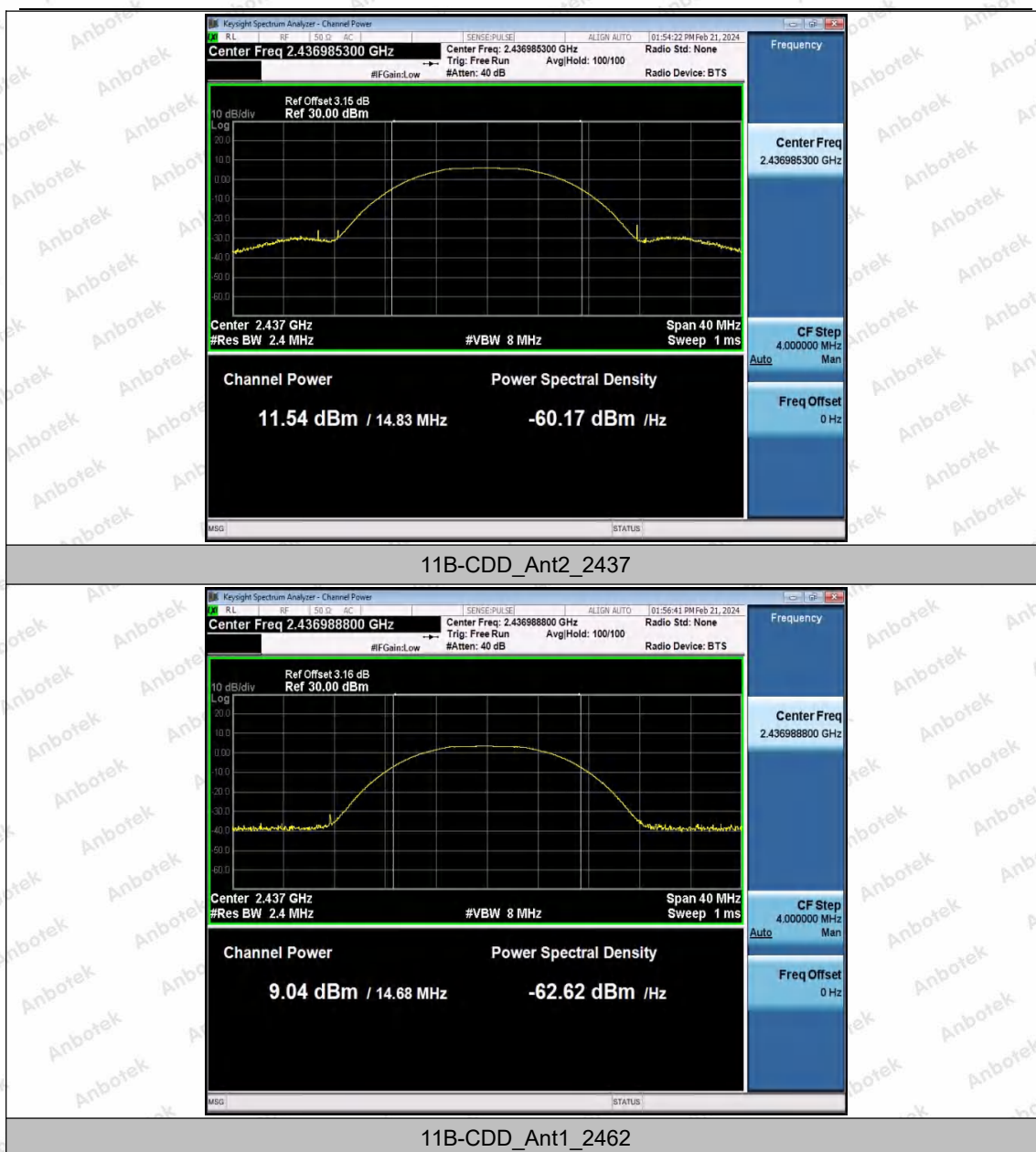
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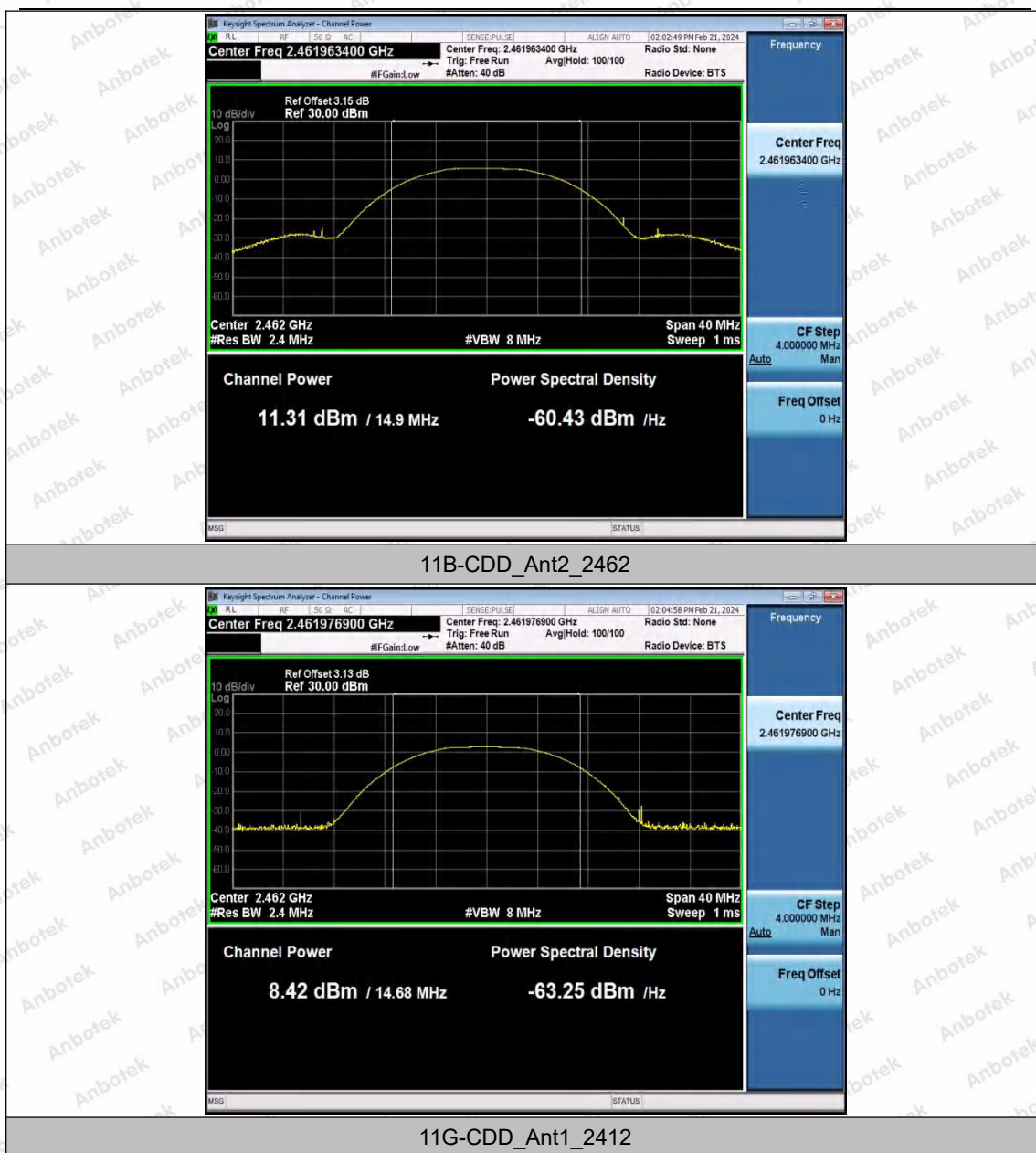
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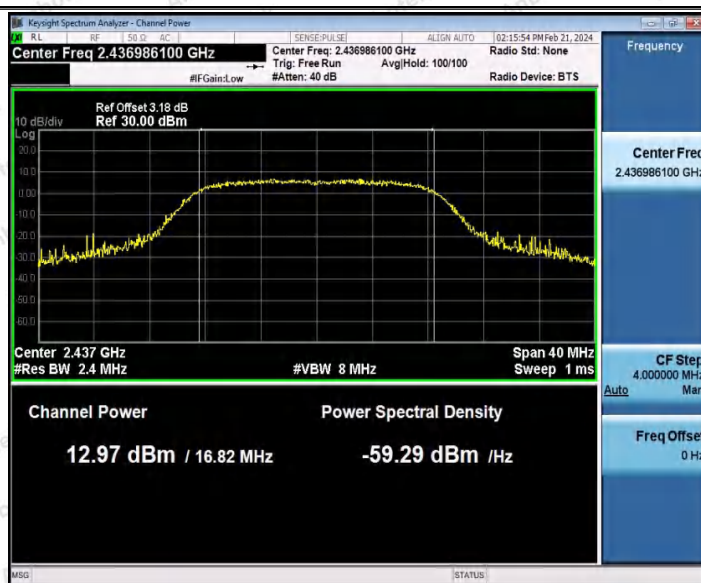
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11G-CDD_Ant2_2437



11G-CDD_Ant1_2462

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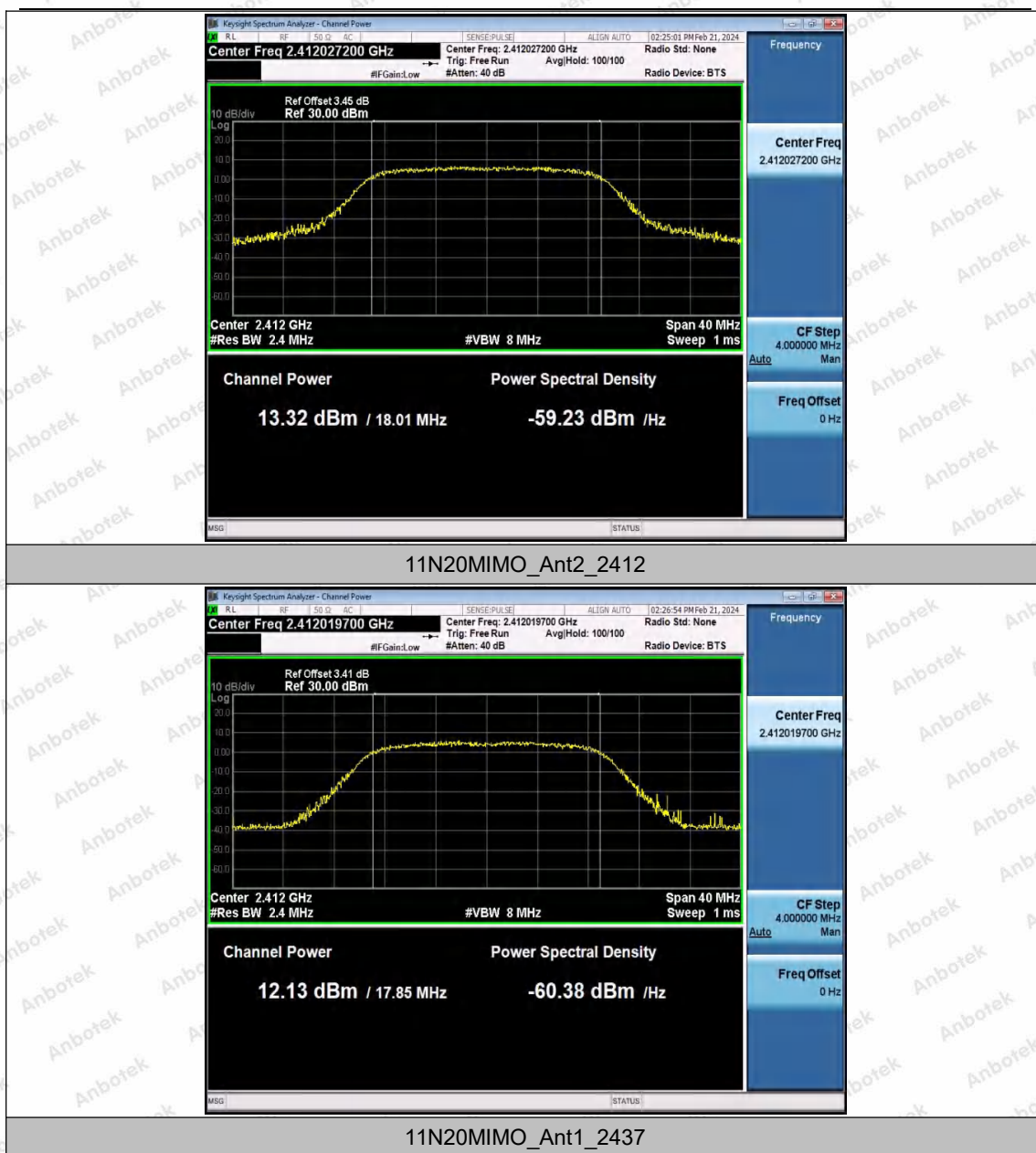
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11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462

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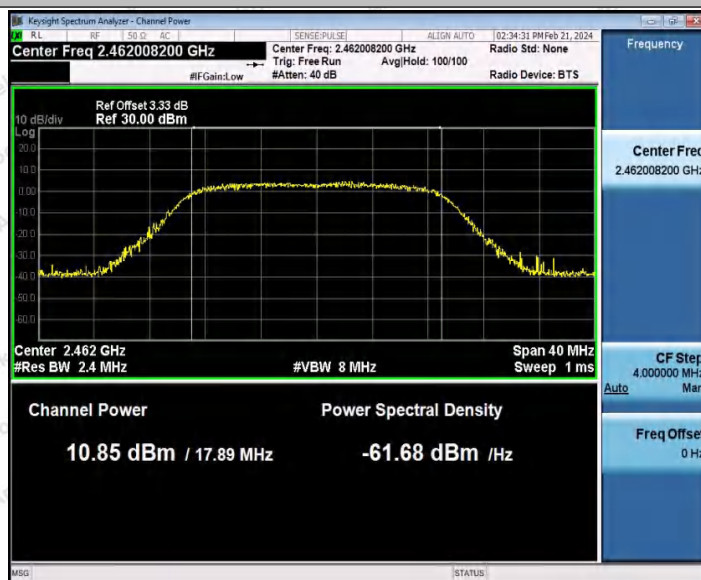


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11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422

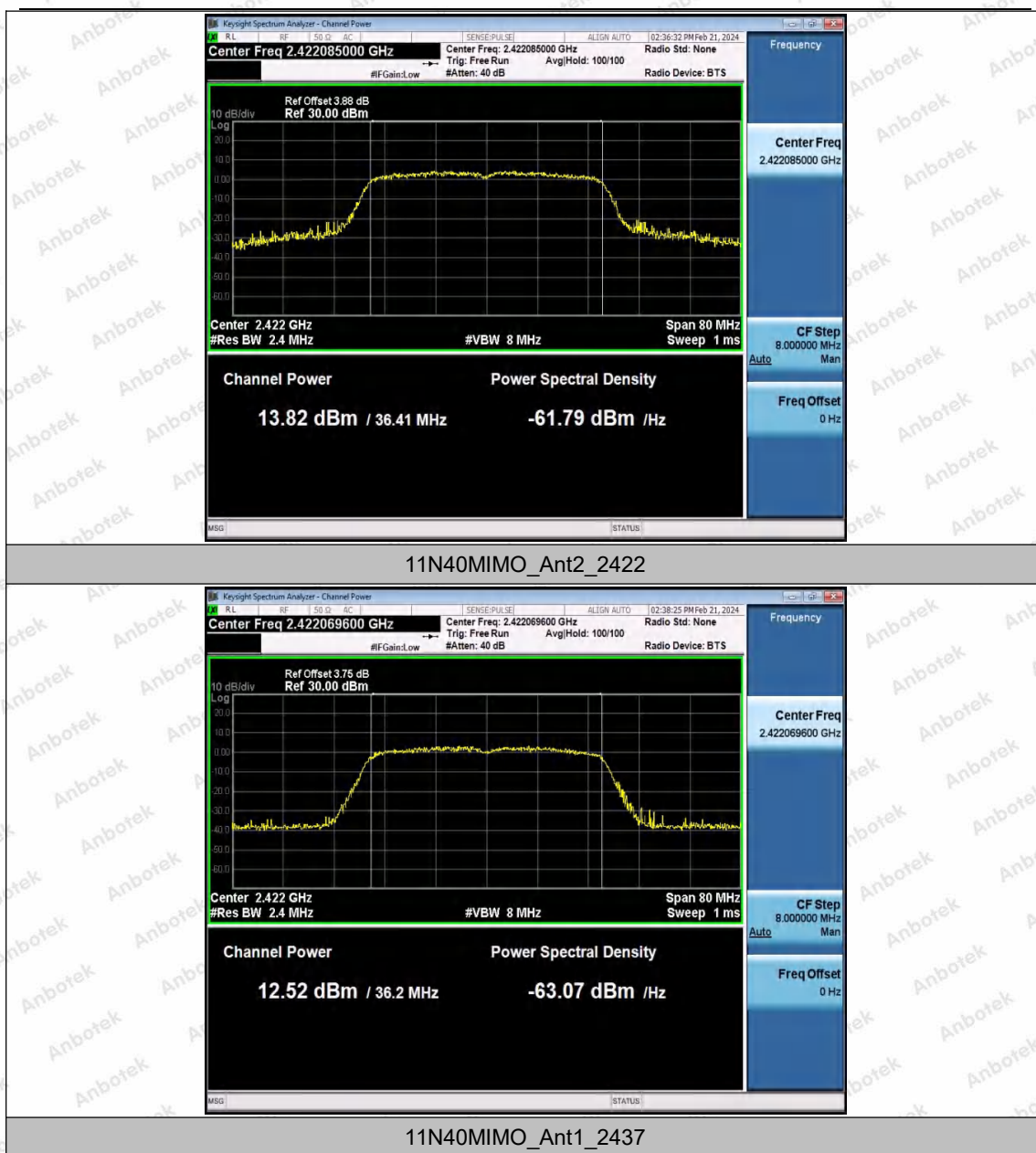
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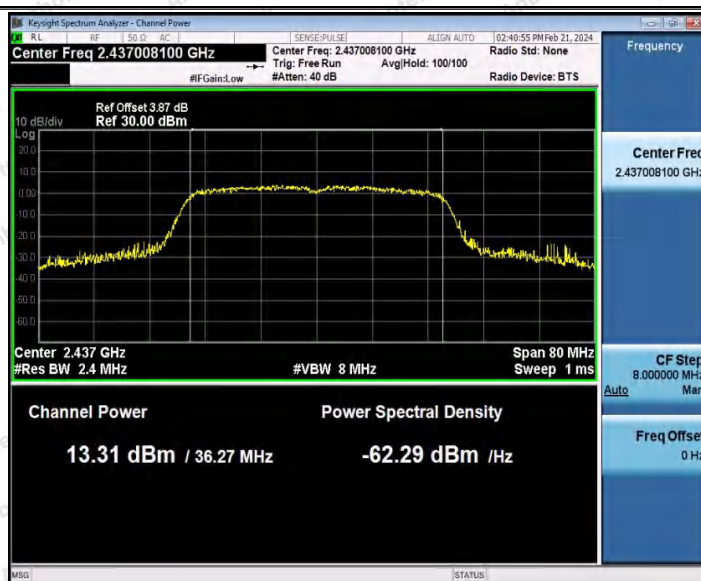
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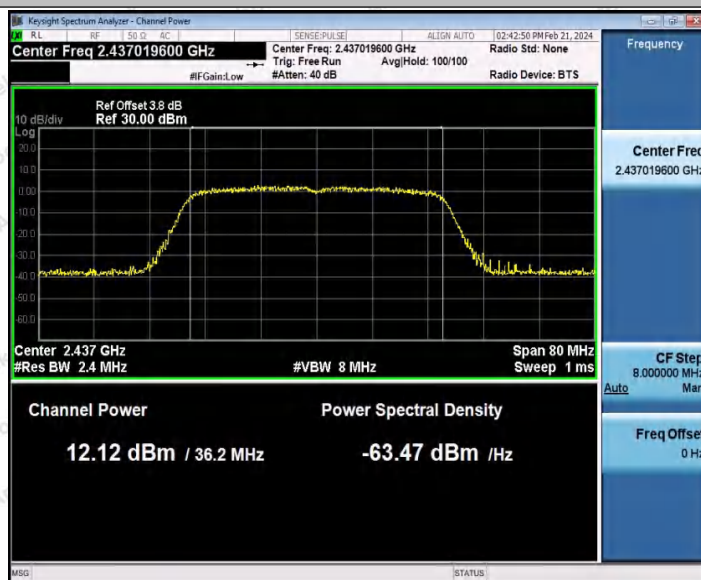


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11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452

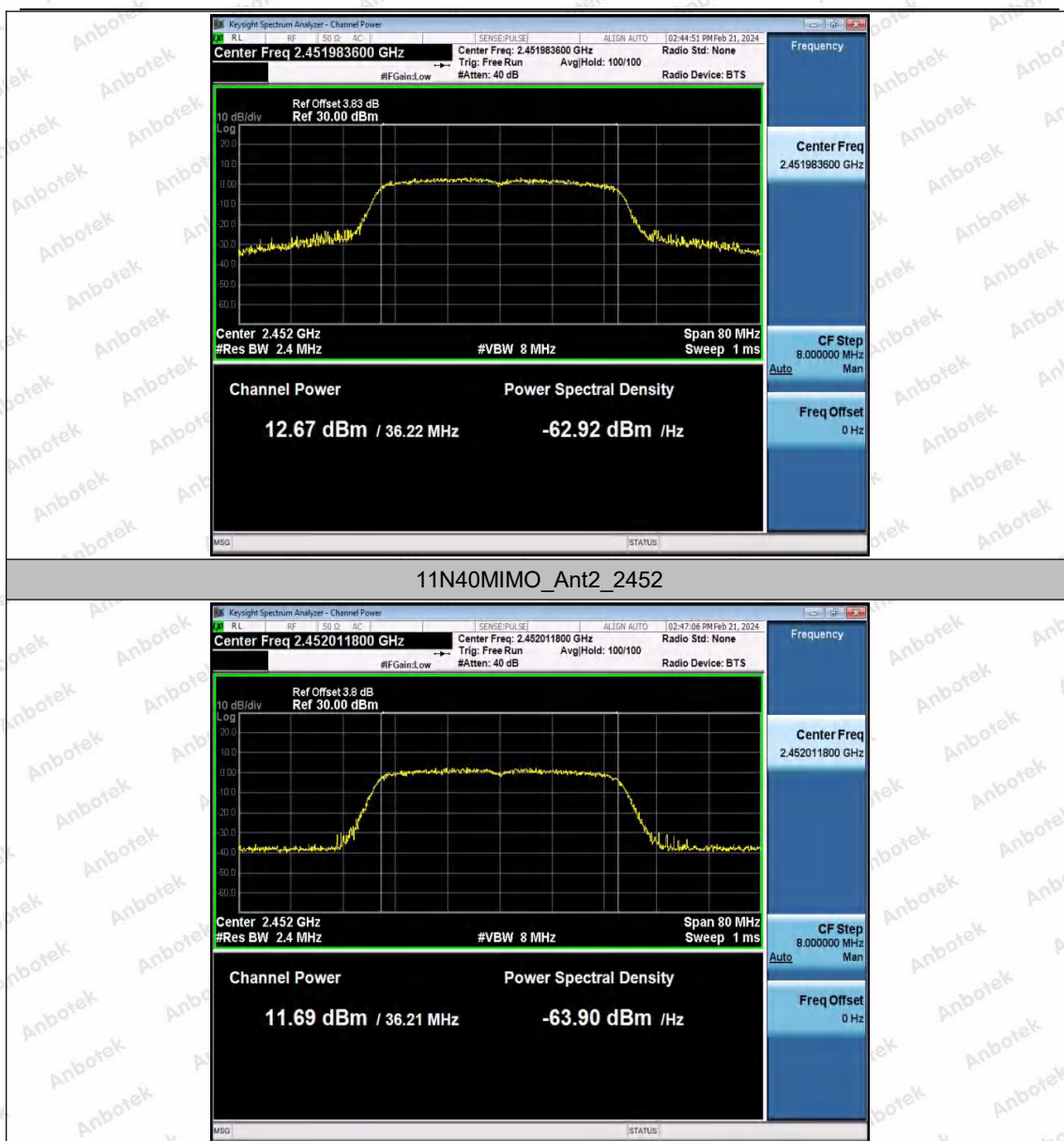
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-11.02	-21.02	≤8.00	PASS
	Ant2	2412	-13.91	-23.91	≤8.00	PASS
	Ant1	2437	-11.52	-21.52	≤8.00	PASS
	Ant2	2437	-14.05	-24.05	≤8.00	PASS
	Ant1	2462	-11.86	-21.86	≤8.00	PASS
	Ant2	2462	-14.54	-24.54	≤8.00	PASS
11G-CDD	Ant1	2412	-13.89	-23.89	≤8.00	PASS
	Ant2	2412	-14.81	-24.81	≤8.00	PASS
	Ant1	2437	-14.6	-24.60	≤8.00	PASS
	Ant2	2437	-16.00	-26.00	≤8.00	PASS
	Ant1	2462	-15.10	-25.10	≤8.00	PASS
	Ant2	2462	-16.14	-26.14	≤8.00	PASS
11N20MIMO	Ant1	2412	-14.74	-24.74	≤8.00	PASS
	Ant2	2412	-15.68	-25.68	≤8.00	PASS
	total	2412	-12.17	-22.17	≤7.93	PASS
	Ant1	2437	-15.41	-25.41	≤8.00	PASS
	Ant2	2437	-16.43	-26.43	≤8.00	PASS
	total	2437	-12.88	-22.88	≤7.93	PASS
	Ant1	2462	-16.21	-26.21	≤8.00	PASS
	Ant2	2462	-16.58	-26.58	≤8.00	PASS
	total	2462	-13.38	-23.38	≤7.93	PASS
11N40MIMO	Ant1	2422	-16.95	-26.95	≤8.00	PASS
	Ant2	2422	-18.39	-28.39	≤8.00	PASS
	total	2422	-14.60	-24.60	≤7.93	PASS
	Ant1	2437	-17.74	-27.74	≤8.00	PASS
	Ant2	2437	-18.74	-28.74	≤8.00	PASS
	total	2437	-15.20	-25.20	≤7.93	PASS
	Ant1	2452	-16.91	-26.91	≤8.00	PASS
	Ant2	2452	-18.94	-28.94	≤8.00	PASS
	total	2452	-14.80	-21.02	≤7.93	PASS

Note:

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

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Test Graphs

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



11B-CDD_Ant1_2437

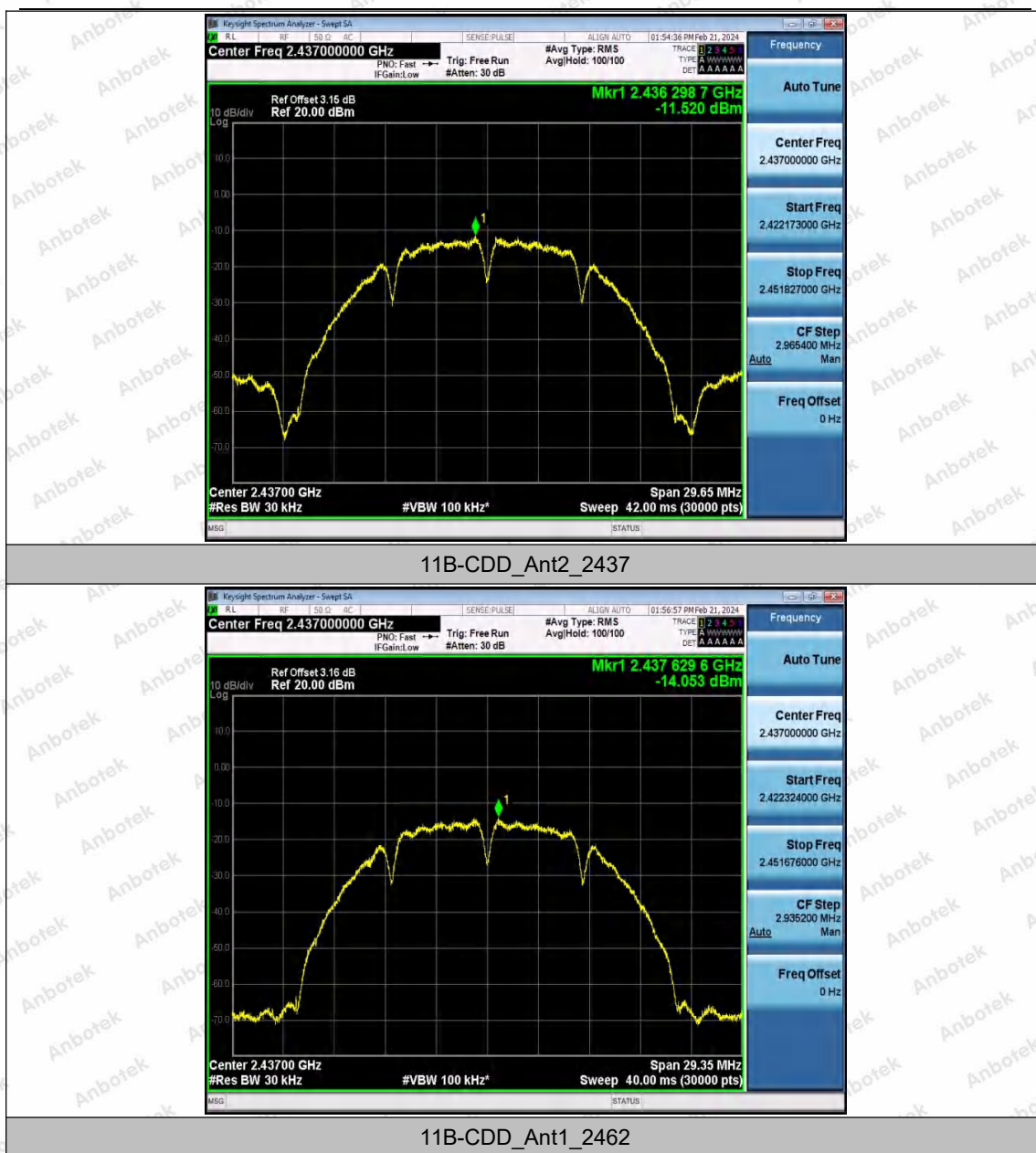
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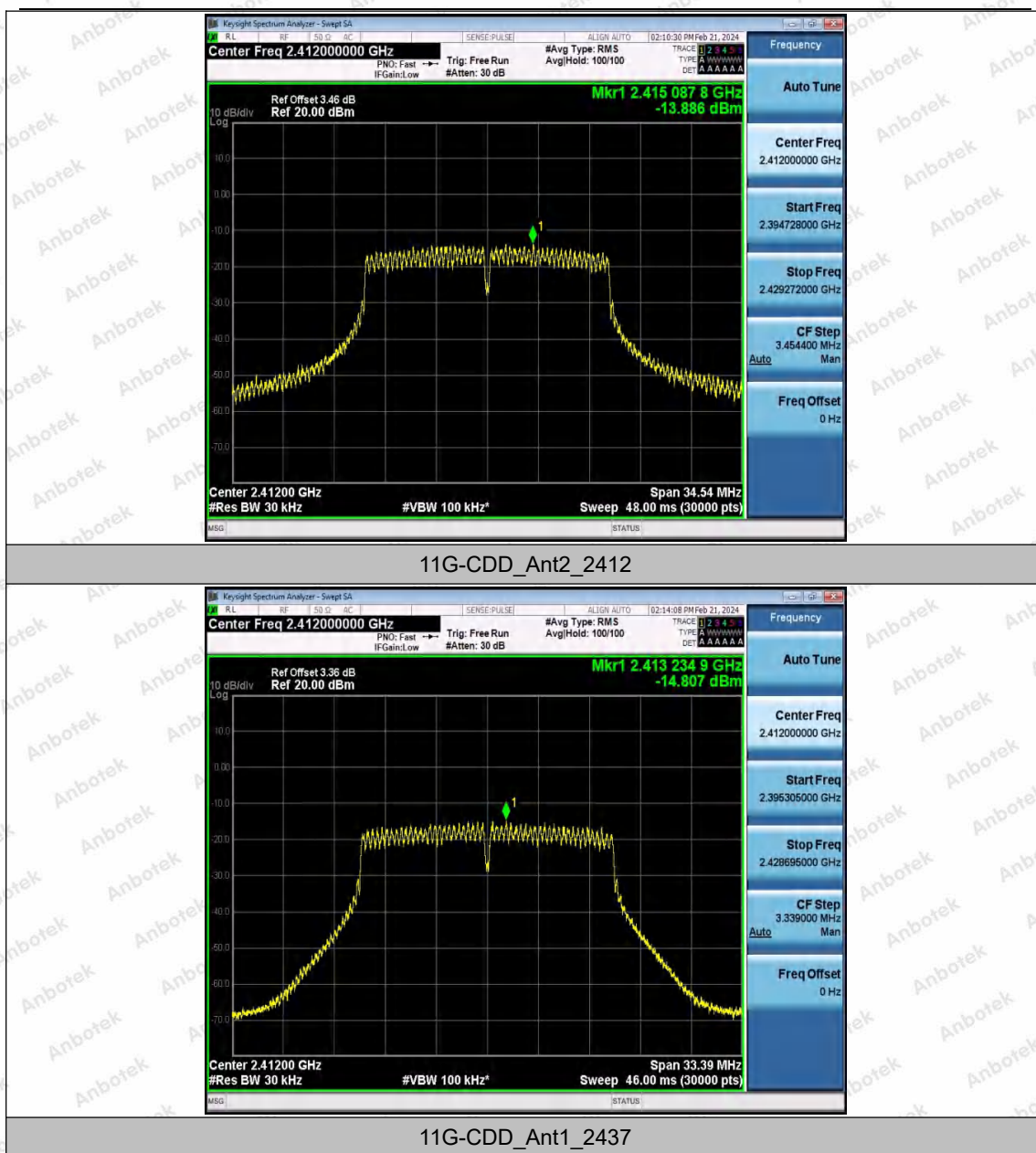
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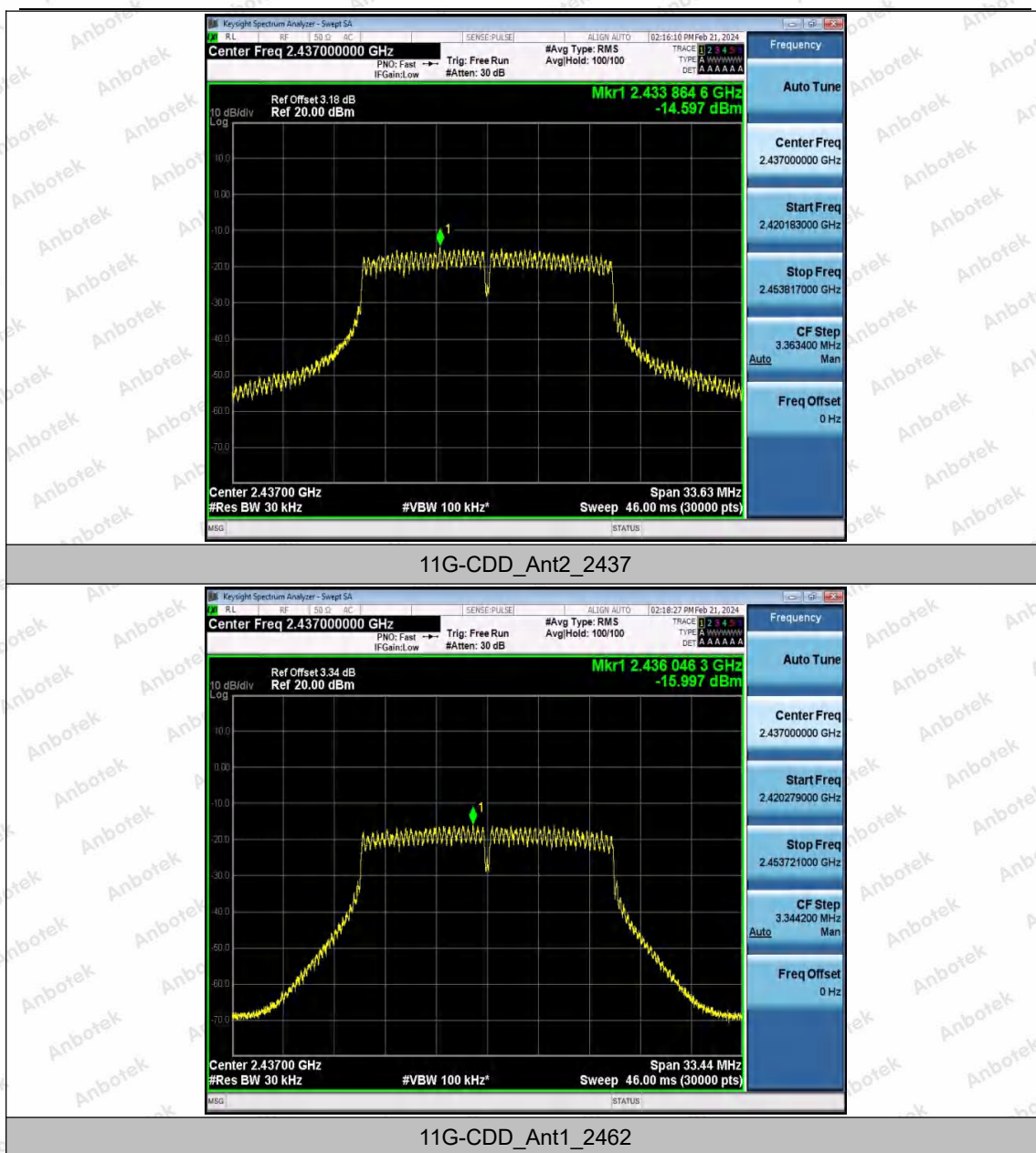
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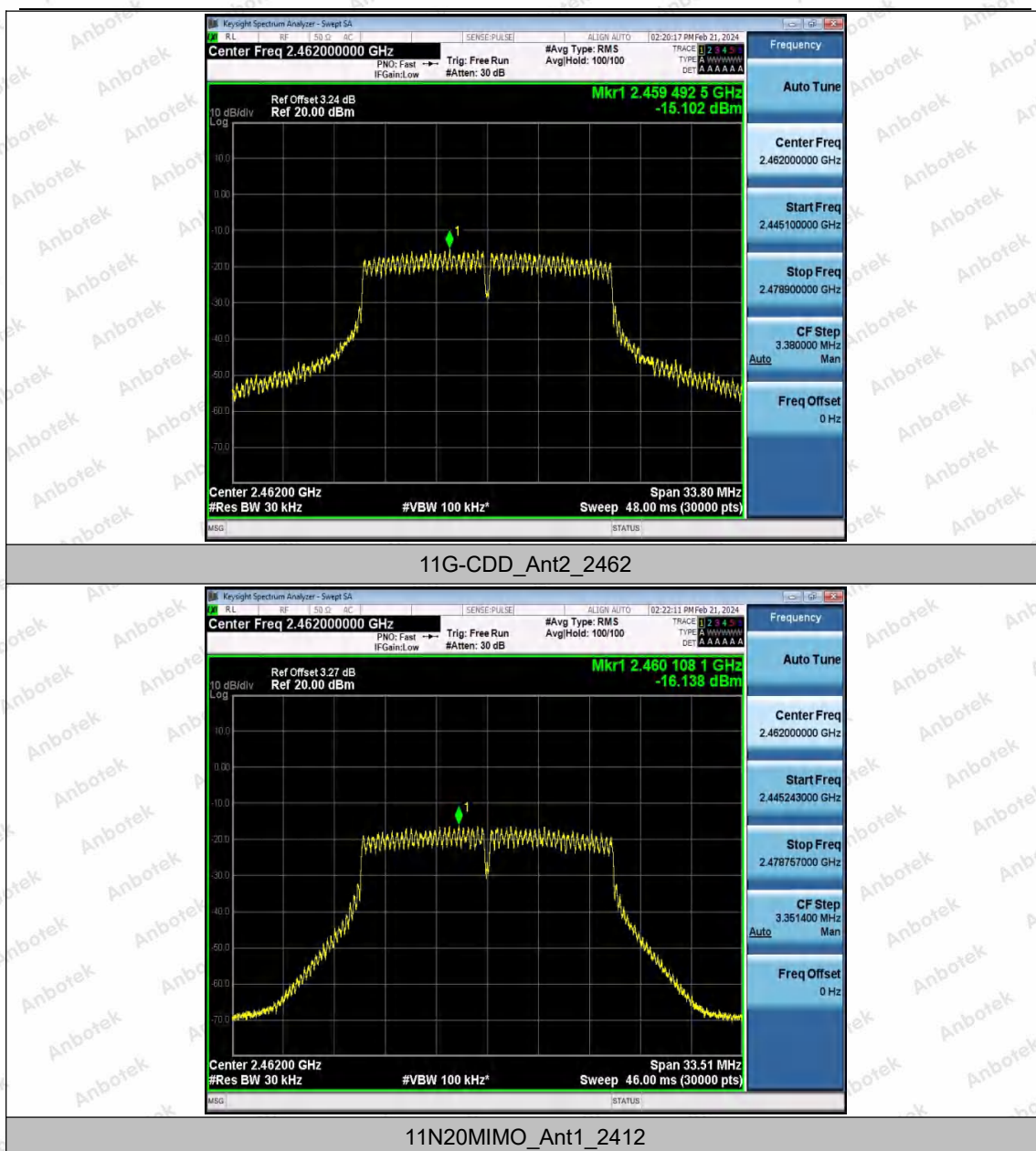
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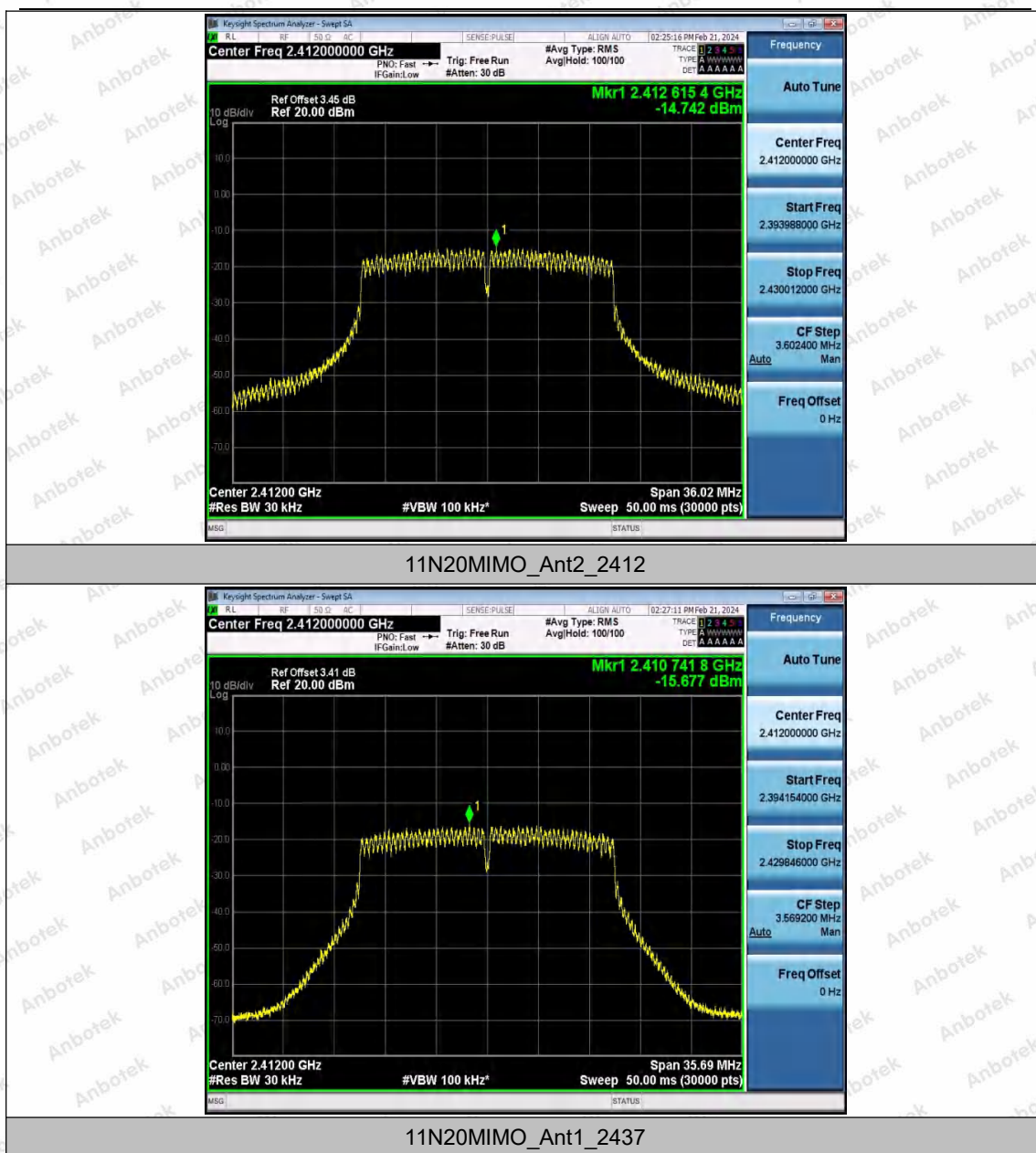
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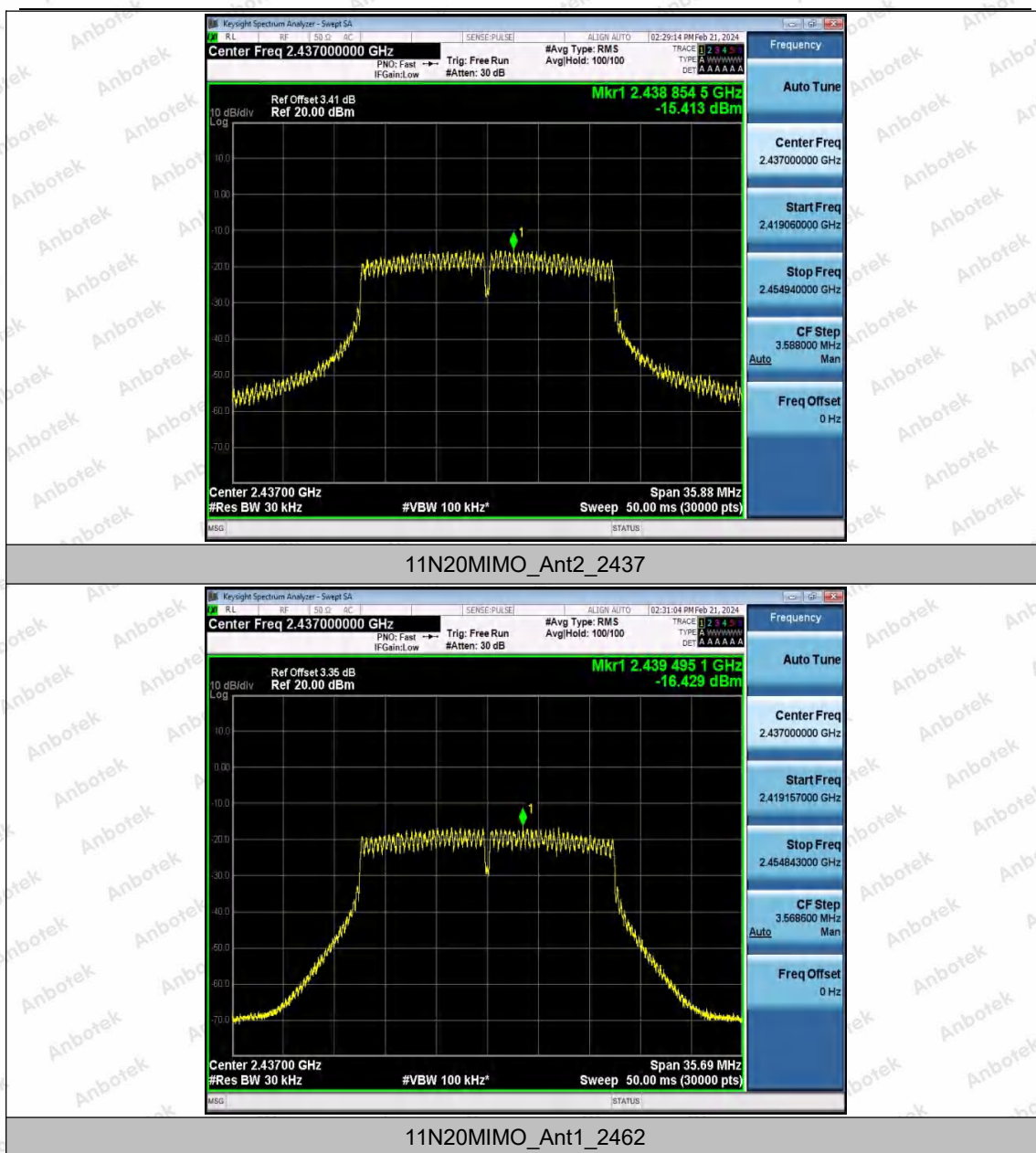
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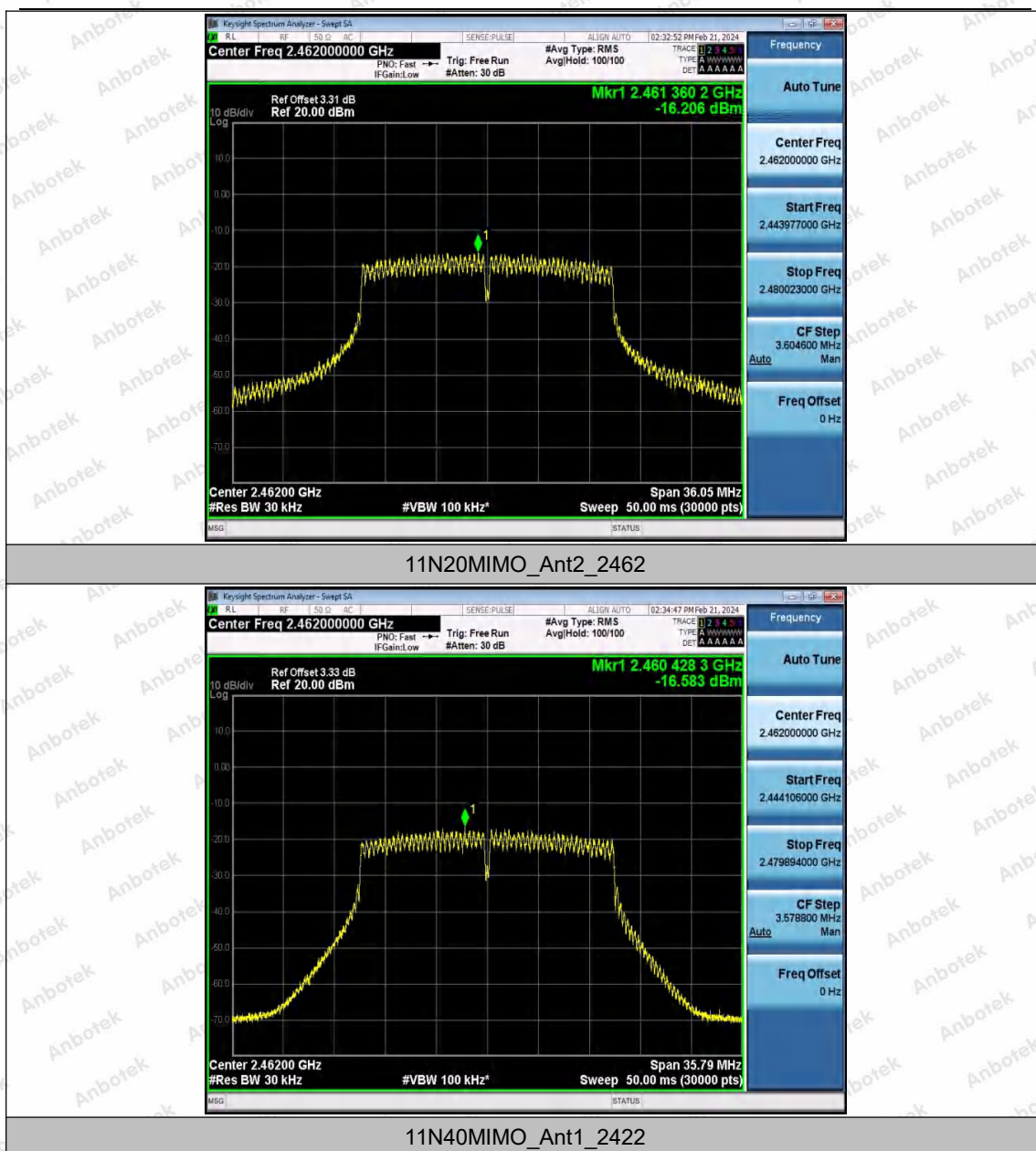
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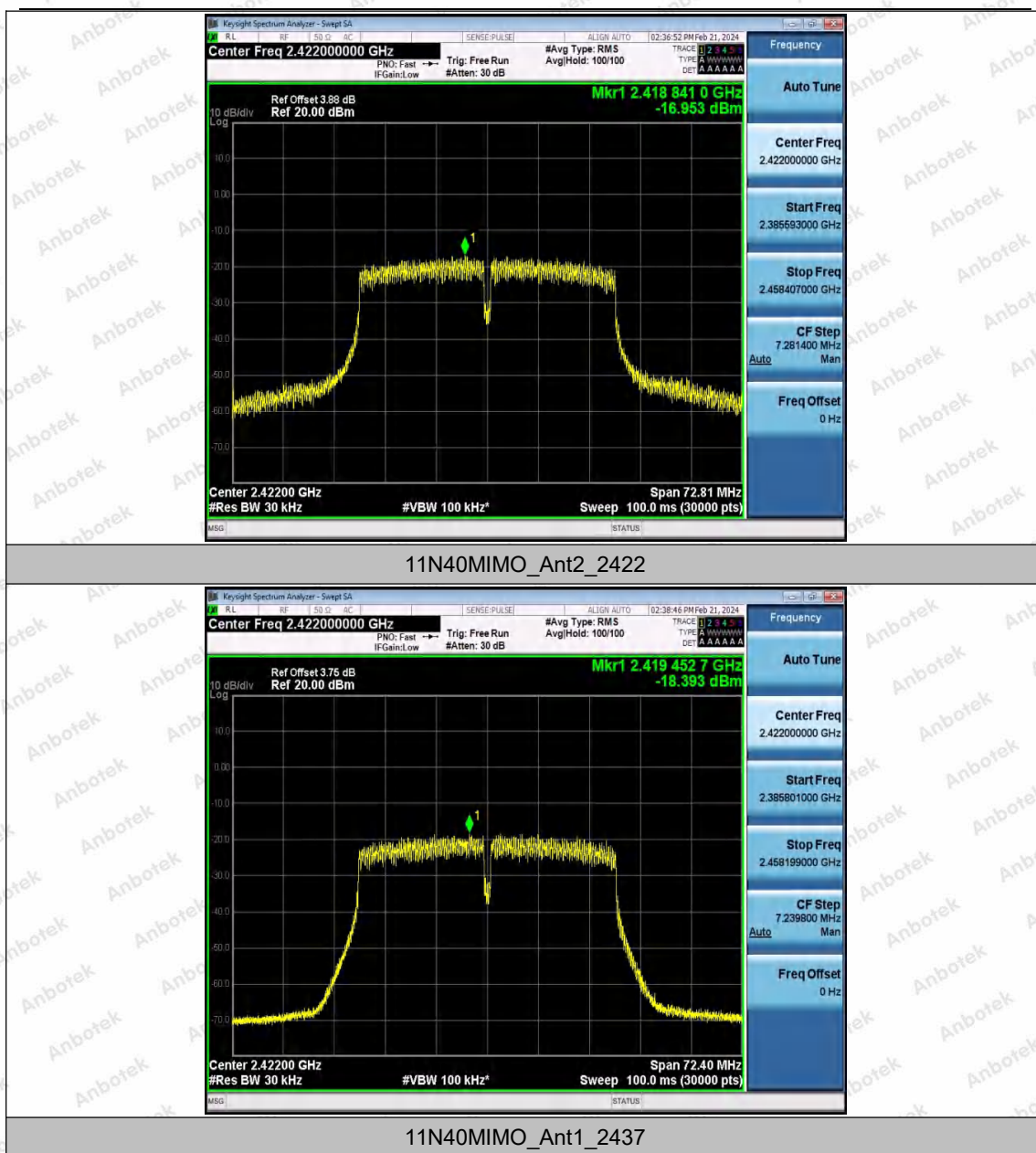
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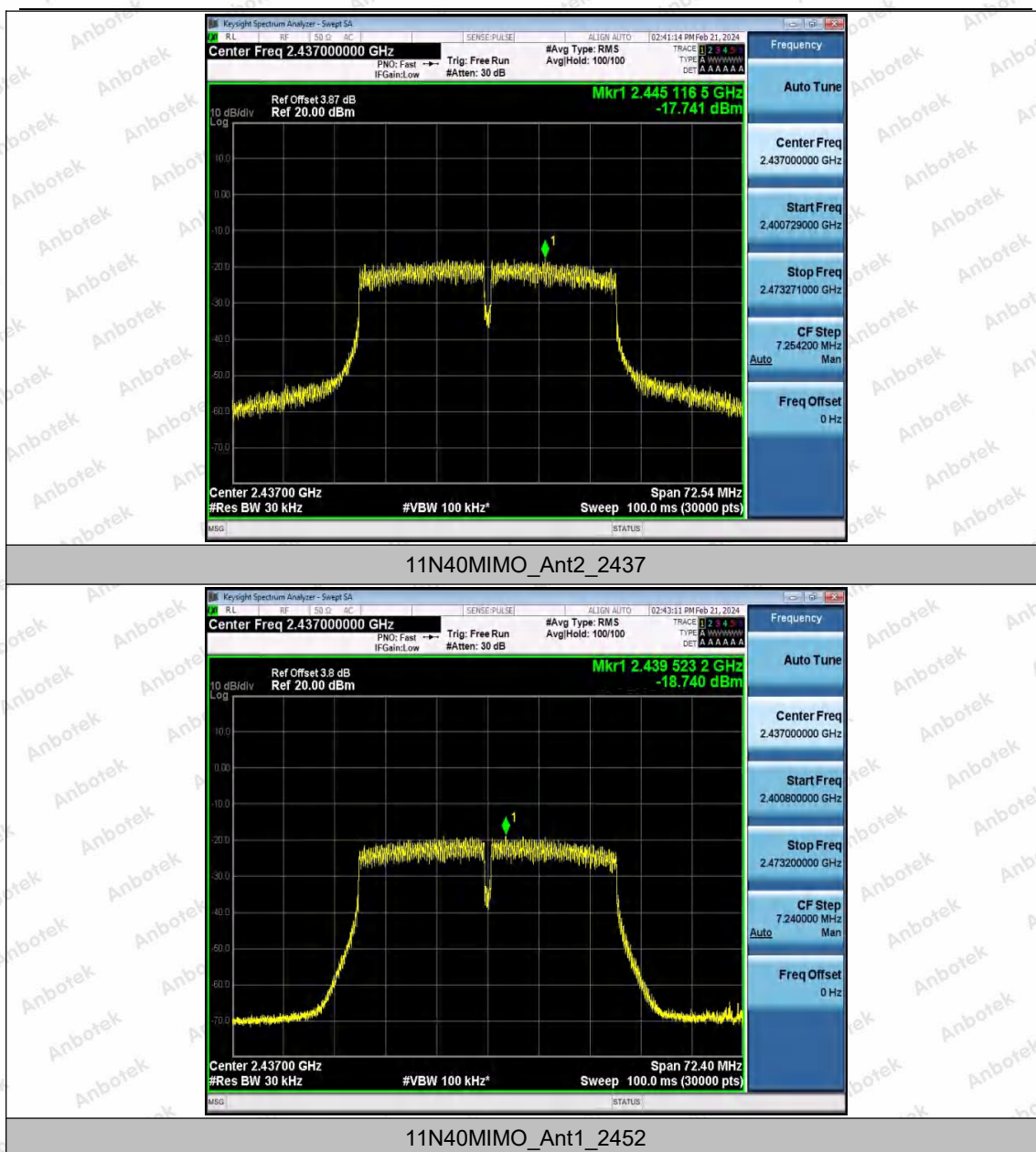
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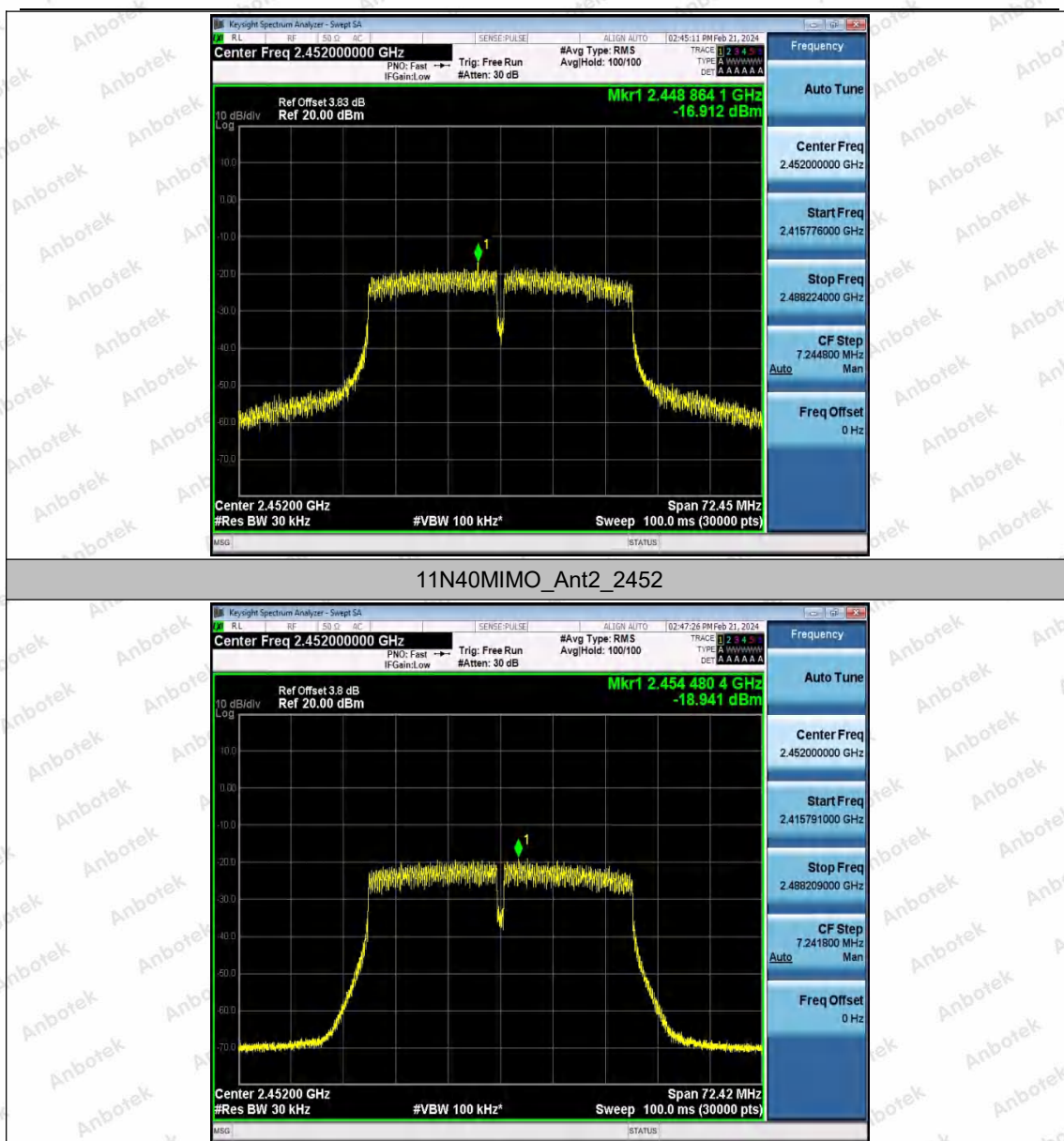
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	2.19	-37.43	≤-27.81	PASS
	Ant2	Low	2412	-0.56	-46.67	≤-30.56	PASS
	Ant1	High	2462	0.94	-52.92	≤-29.06	PASS
	Ant2	High	2462	-1.84	-54.96	≤-31.84	PASS
11G-CDD	Ant1	Low	2412	-1.20	-32.35	≤-31.2	PASS
	Ant2	Low	2412	-3.09	-43.48	≤-33.09	PASS
	Ant1	High	2462	-2.80	-46.41	≤-32.8	PASS
	Ant2	High	2462	-3.85	-54.93	≤-33.85	PASS
11N20MIMO	Ant1	Low	2412	-1.51	-34.82	≤-31.51	PASS
	Ant2	Low	2412	-2.37	-40.34	≤-32.37	PASS
	Ant1	High	2462	-3.03	-45.6	≤-33.03	PASS
	Ant2	High	2462	-3.60	-54.32	≤-33.6	PASS
11N40MIMO	Ant1	Low	2422	-4.35	-36.67	≤-34.35	PASS
	Ant2	Low	2422	-5.56	-45.73	≤-35.56	PASS
	Ant1	High	2452	-5.25	-39.5	≤-35.25	PASS
	Ant2	High	2452	-6.51	-53.77	≤-36.51	PASS

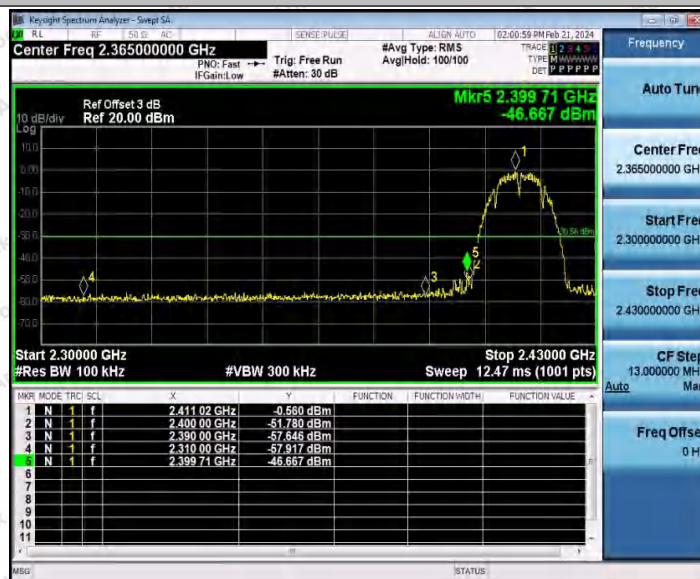


Test Graphs

11B-CDD_Ant1_Low_2412



11B-CDD_Ant2_Low_2412



11B-CDD_Ant1_High_2462

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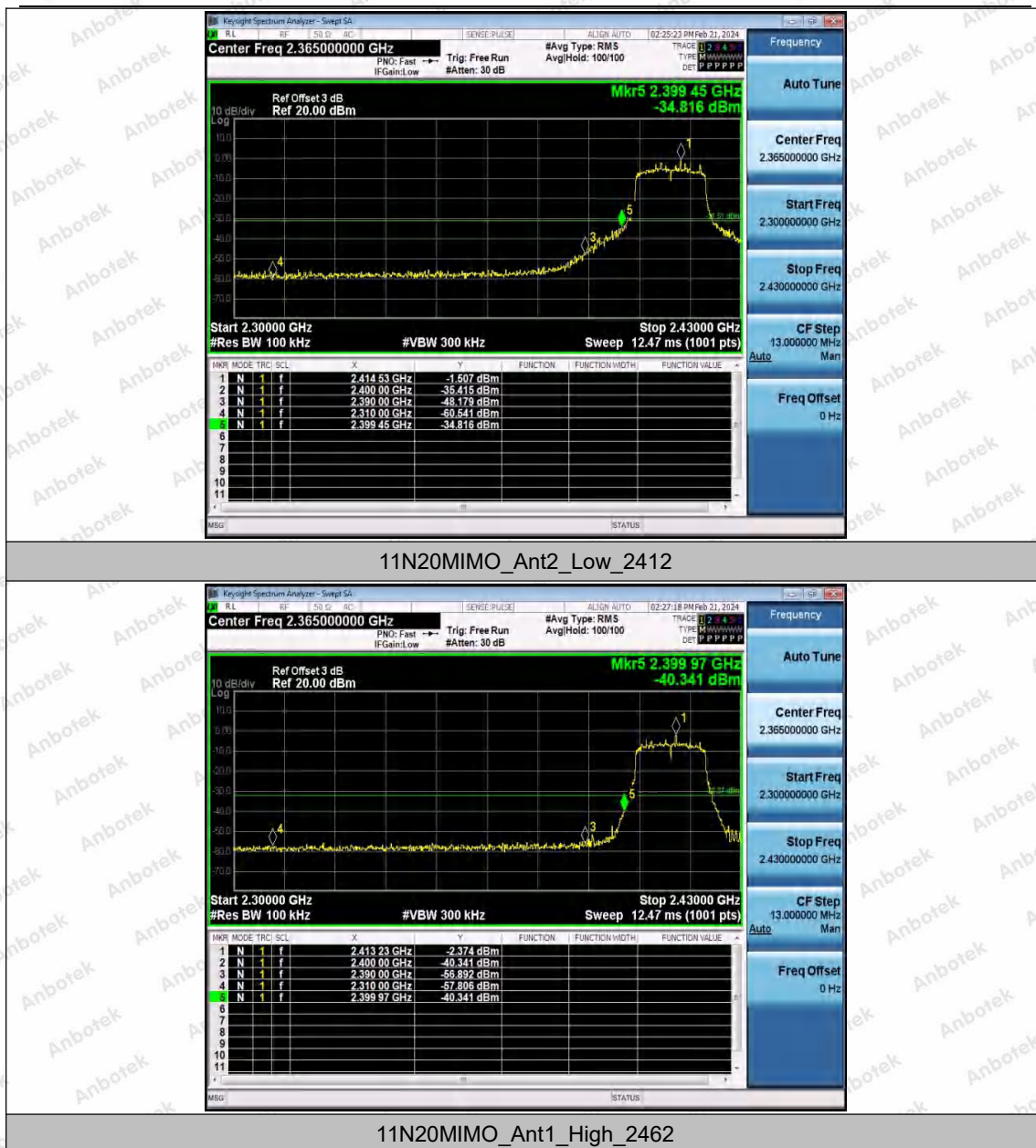
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