

Appendix Test Data

Report No.:	18220WC30257601 (module MT7628DAN)	Test Sample No.:	1-2-2
Start Test Date:	2023.12.20	Finish Test Date:	2023.12.22
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.1°C	Relative Humidity:	46%
Pressure:	101kPa		

Appendix A: 6dB Occupy Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
	Ant2	2412	9.120	2407.440	2416.560	0.5	PASS
	Ant1	2437	9.520	2432.000	2441.520	0.5	PASS
	Ant2	2437	9.520	2432.000	2441.520	0.5	PASS
	Ant1	2462	9.520	2457.000	2466.520	0.5	PASS
	Ant2	2462	9.520	2457.000	2466.520	0.5	PASS
802.11g	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
	Ant2	2412	12.640	2406.920	2419.560	0.5	PASS
	Ant1	2437	14.200	2429.440	2443.640	0.5	PASS
	Ant2	2437	13.800	2430.720	2444.520	0.5	PASS
	Ant1	2462	14.000	2454.480	2468.480	0.5	PASS
	Ant2	2462	13.800	2454.440	2468.240	0.5	PASS
802.11n(HT20) SISO	Ant1	2412	15.000	2404.520	2419.520	0.5	PASS
	Ant2	2412	14.400	2404.840	2419.240	0.5	PASS
	Ant1	2437	12.640	2430.680	2443.320	0.5	PASS
	Ant2	2437	14.920	2429.560	2444.480	0.5	PASS
	Ant1	2462	12.800	2454.480	2467.280	0.5	PASS
	Ant2	2462	13.720	2454.800	2468.520	0.5	PASS
802.11n(HT40) SISO	Ant1	2422	30.080	2406.960	2437.040	0.5	PASS
	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant1	2437	33.760	2420.760	2454.520	0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant1	2452	33.840	2435.680	2469.520	0.5	PASS
	Ant2	2452	35.040	2434.480	2469.520	0.5	PASS

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Test Graphs

802.11b_Ant1_2412



802.11b_Ant2_2412



802.11b_Ant1_2437

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802.11b_Ant2_2437



802.11b_Ant1_2462



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802.11b_Ant2_2462



802.11g_Ant1_2412



802.11g_Ant2_2412

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802.11g_Ant1_2437



802.11g_Ant2_2437



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802.11g_Ant1_2462



802.11g_Ant2_2462



802.11n(HT20)SISO_Ant1_2412

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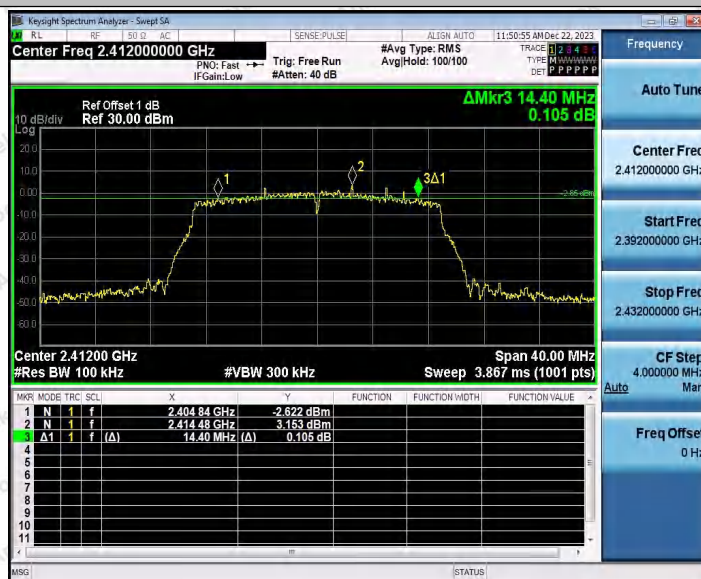


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802.11n(HT20)SISO_Ant2_2412



802.11n(HT20)SISO_Ant1_2437



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802.11n(HT20)SISO_Ant2_2437



802.11n(HT20)SISO_Ant1_2462



802.11n(HT20)SISO_Ant2_2462

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802.11n(HT40)SISO_Ant1_2422



802.11n(HT40)SISO_Ant2_2422



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802.11n(HT40)SISO_Ant1_2437



802.11n(HT40)SISO_Ant2_2437



802.11n(HT40)SISO_Ant1_2452

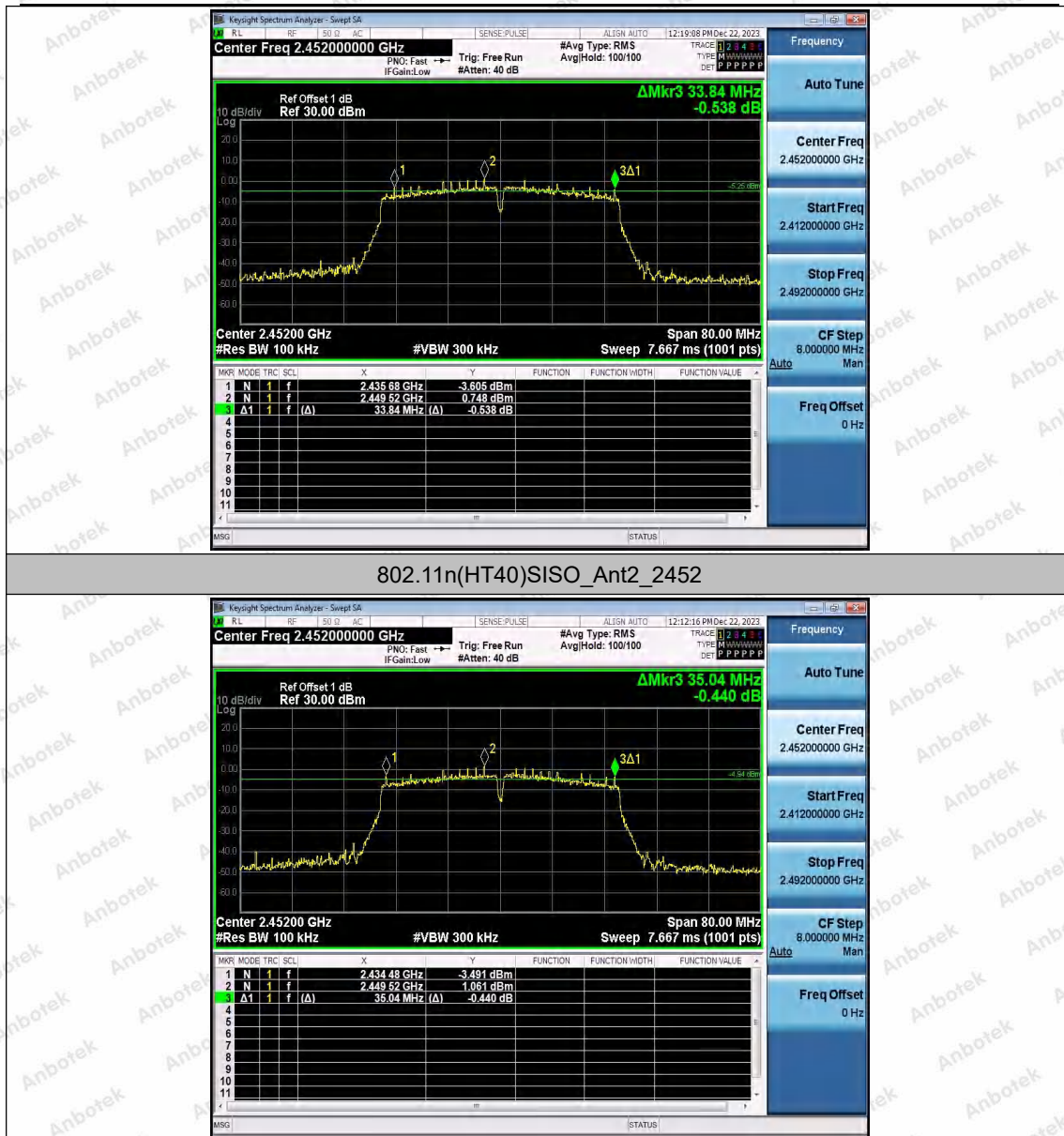
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
802.11b	Ant1	2412	14.106	2404.9543	2419.0603	---	---
	Ant2	2412	14.105	2404.9557	2419.0607	---	---
	Ant1	2437	14.108	2429.9448	2444.0528	---	---
	Ant2	2437	14.103	2429.9472	2444.0502	---	---
	Ant1	2462	14.105	2454.9464	2469.0514	---	---
	Ant2	2462	14.110	2454.9428	2469.0528	---	---
802.11g	Ant1	2412	16.744	2403.6121	2420.3561	---	---
	Ant2	2412	16.727	2403.6189	2420.3459	---	---
	Ant1	2437	16.748	2428.6005	2445.3485	---	---
	Ant2	2437	16.718	2428.6178	2445.3358	---	---
	Ant1	2462	16.736	2453.6364	2470.3724	---	---
	Ant2	2462	16.795	2453.5703	2470.3653	---	---
802.11n(HT20) SISO	Ant1	2412	17.667	2403.1755	2420.8425	---	---
	Ant2	2412	17.688	2403.1864	2420.8744	---	---
	Ant1	2437	17.720	2428.1439	2445.8639	---	---
	Ant2	2437	17.647	2428.1857	2445.8327	---	---
	Ant1	2462	17.695	2453.1418	2470.8368	---	---
	Ant2	2462	17.720	2453.1375	2470.8575	---	---
802.11n(HT40) SISO	Ant1	2422	35.907	2404.0670	2439.9740	---	---
	Ant2	2422	35.871	2404.0690	2439.9400	---	---
	Ant1	2437	35.830	2419.1051	2454.9351	---	---
	Ant2	2437	35.855	2419.1044	2454.9594	---	---
	Ant1	2452	35.895	2434.0839	2469.9789	---	---
	Ant2	2452	35.854	2434.0981	2469.9521	---	---



Test Graphs

802.11b_Ant1_2412



802.11b_Ant2_2412



802.11b_Ant1_2437

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802.11b_Ant2_2437



802.11b_Ant1_2462



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802.11b_Ant2_2462



802.11g_Ant1_2412



802.11g_Ant2_2412

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802.11g_Ant1_2437



802.11g_Ant2_2437



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802.11g_Ant1_2462



802.11g_Ant2_2462



802.11n(HT20)SISO_Ant1_2412

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802.11n(HT20)SISO_Ant2_2412



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802.11n(HT20)SISO_Ant2_2437



802.11n(HT20)SISO_Ant1_2462



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802.11n(HT40)SISO_Ant1_2422



802.11n(HT40)SISO_Ant2_2422



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802.11n(HT40)SISO_Ant1_2437



802.11n(HT40)SISO_Ant2_2437



802.11n(HT40)SISO_Ant1_2452

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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
802.11b	Ant1	2412	13.50	≤30.00
	Ant2	2412	13.01	≤30.00
	Ant1	2437	13.19	≤30.00
	Ant2	2437	14.31	≤30.00
	Ant1	2462	13.45	≤30.00
	Ant2	2462	14.35	≤30.00
802.11g	Ant1	2412	13.89	≤30.00
	Ant2	2412	14.74	≤30.00
	Ant1	2437	13.58	≤30.00
	Ant2	2437	14.85	≤30.00
	Ant1	2462	14.89	≤30.00
	Ant2	2462	15.01	≤30.00
802.11n(HT20)SISO	Ant1	2412	13.20	≤30.00
	Ant2	2412	13.75	≤30.00
	Ant1	2437	13.08	≤30.00
	Ant2	2437	13.84	≤30.00
	Ant1	2462	13.00	≤30.00
	Ant2	2462	13.98	≤30.00
802.11n(HT40)SISO	Ant1	2422	13.14	≤30.00
	Ant2	2422	13.99	≤30.00
	Ant1	2437	13.46	≤30.00
	Ant2	2437	14.22	≤30.00
	Ant1	2452	13.76	≤30.00
	Ant2	2452	14.16	≤30.00

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

MIMO:

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
802.11n(HT20)MIMO	Ant1+Ant2	2412	16.49	≤30.00
	Ant1+Ant2	2437	16.49	≤30.00
	Ant1+Ant2	2462	16.53	≤30.00
802.11n(HT40)MIMO	Ant1+Ant2	2422	16.60	≤30.00
	Ant1+Ant2	2437	16.87	≤30.00
	Ant1+Ant2	2452	16.97	≤30.00

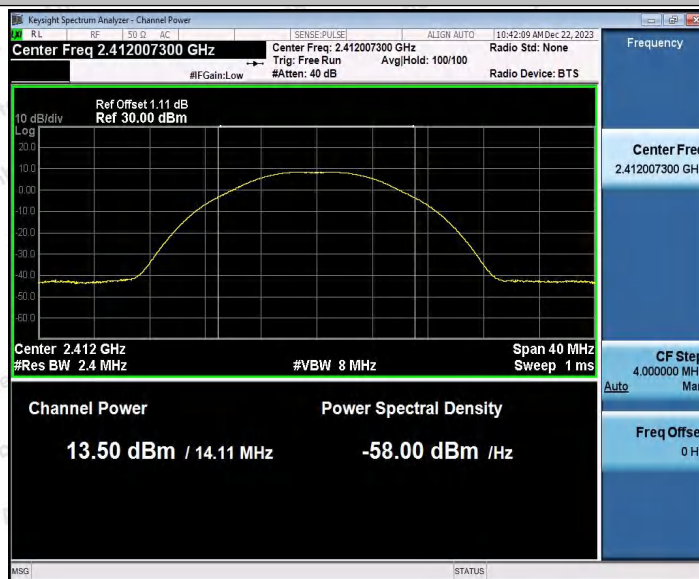
Note:

1. Total (dBm)= $10 \cdot \log(10^{(\text{ANT1 power(dBm)}/10)} + 10^{(\text{ANT2 power(dBm)}/10)})$



Test Graphs

802.11b_Ant1_2412



802.11b_Ant2_2412



802.11b_Ant1_2437

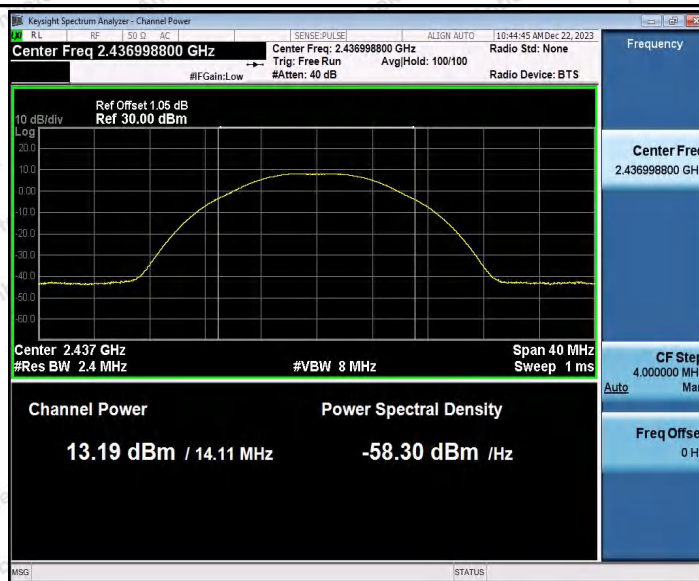
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802.11b_Ant2_2437



802.11b_Ant1_2462



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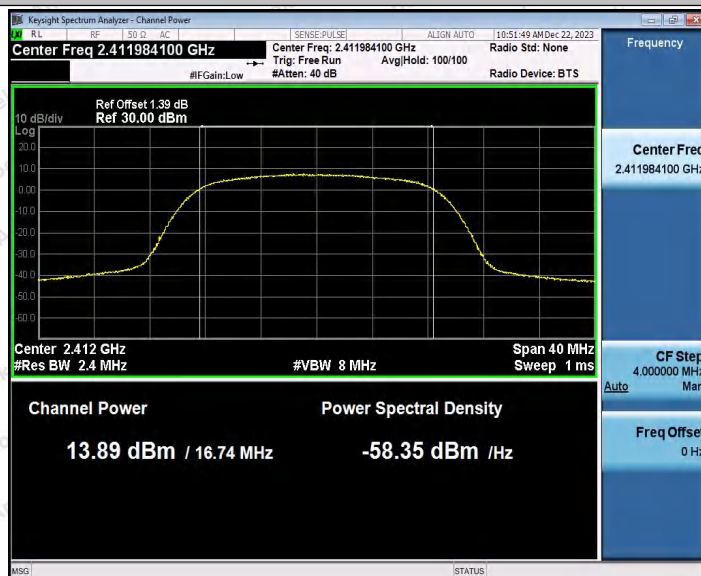
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802.11b_Ant2_2462



802.11g_Ant1_2412



802.11g_Ant2_2412

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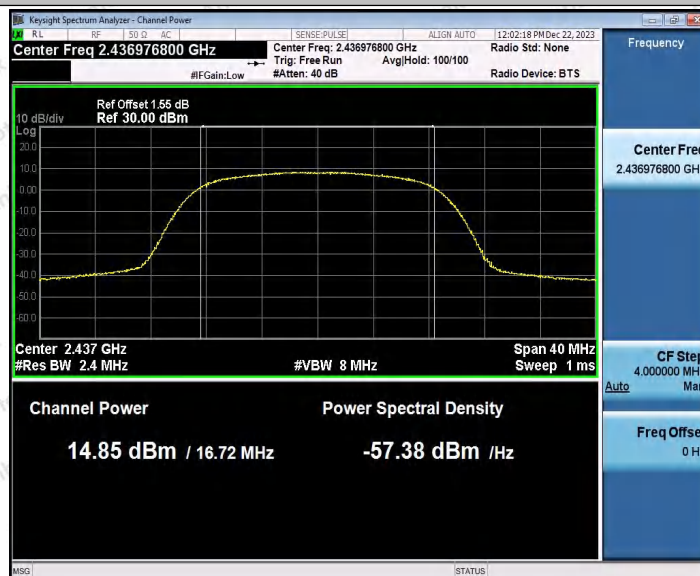




802.11g_Ant1_2437



802.11g_Ant2_2437



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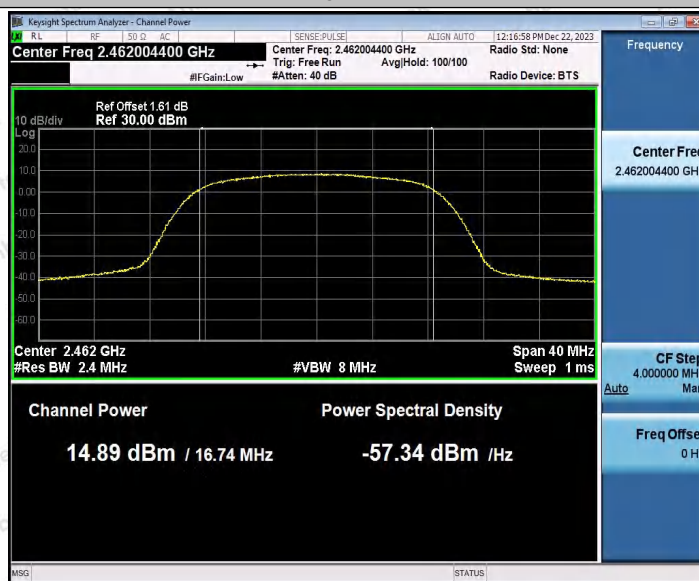
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802.11g_Ant1_2462



802.11g_Ant2_2462



802.11n(HT20)SISO_Ant1_2412

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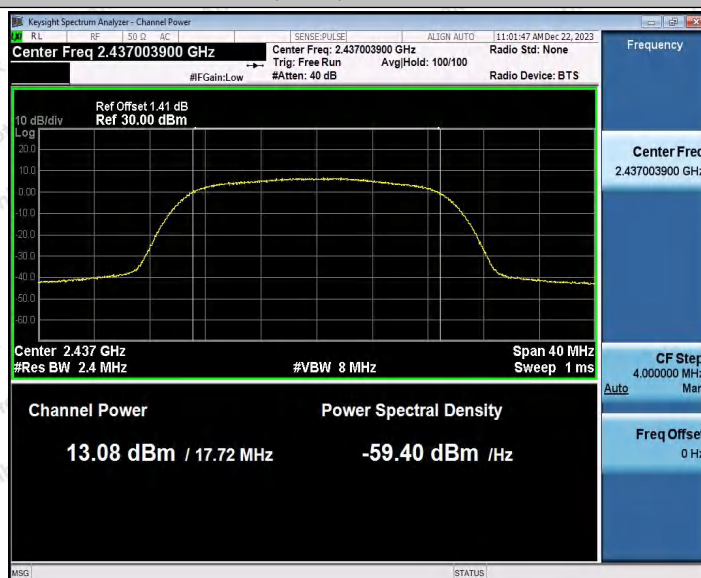




802.11n(HT20)SISO_Ant2_2412



802.11n(HT20)SISO_Ant1_2437



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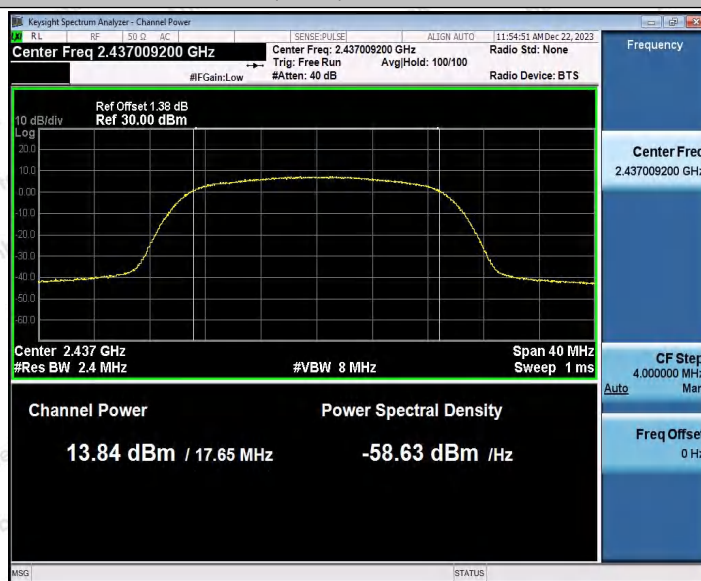
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802.11n(HT20)SISO_Ant2_2437



802.11n(HT20)SISO_Ant1_2462



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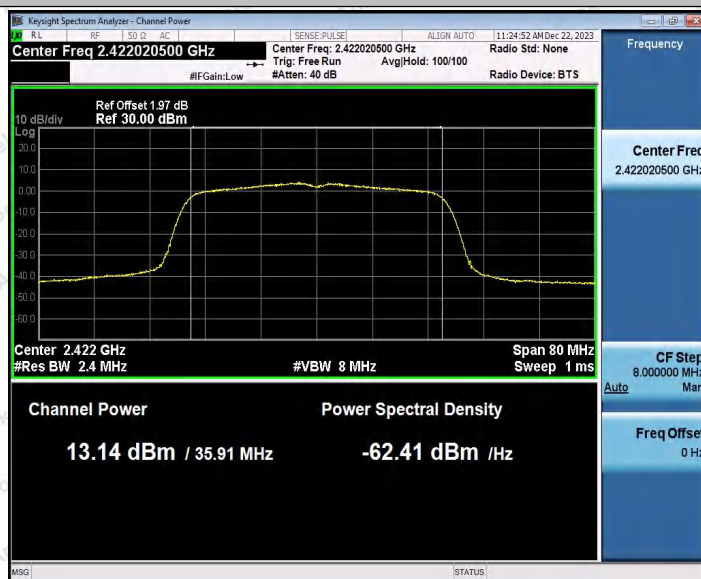


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802.11n(HT40)SISO_Ant1_2422



802.11n(HT40)SISO_Ant2_2422



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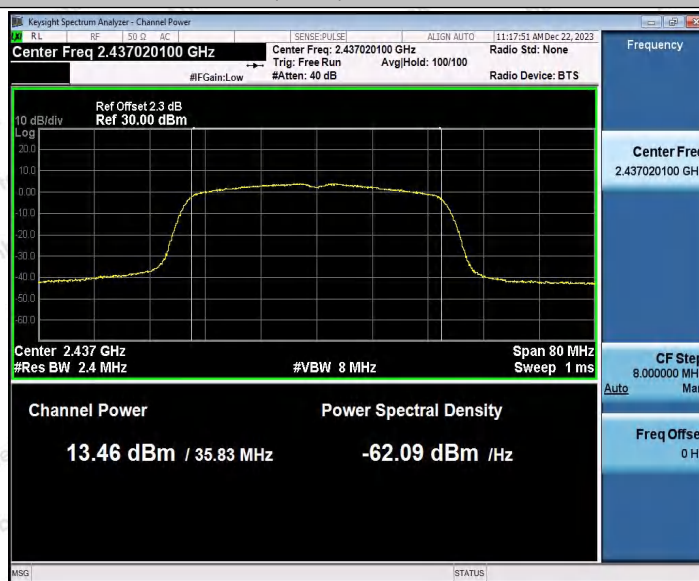
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802.11n(HT40)SISO_Ant1_2437



802.11n(HT40)SISO_Ant2_2437



802.11n(HT40)SISO_Ant1_2452

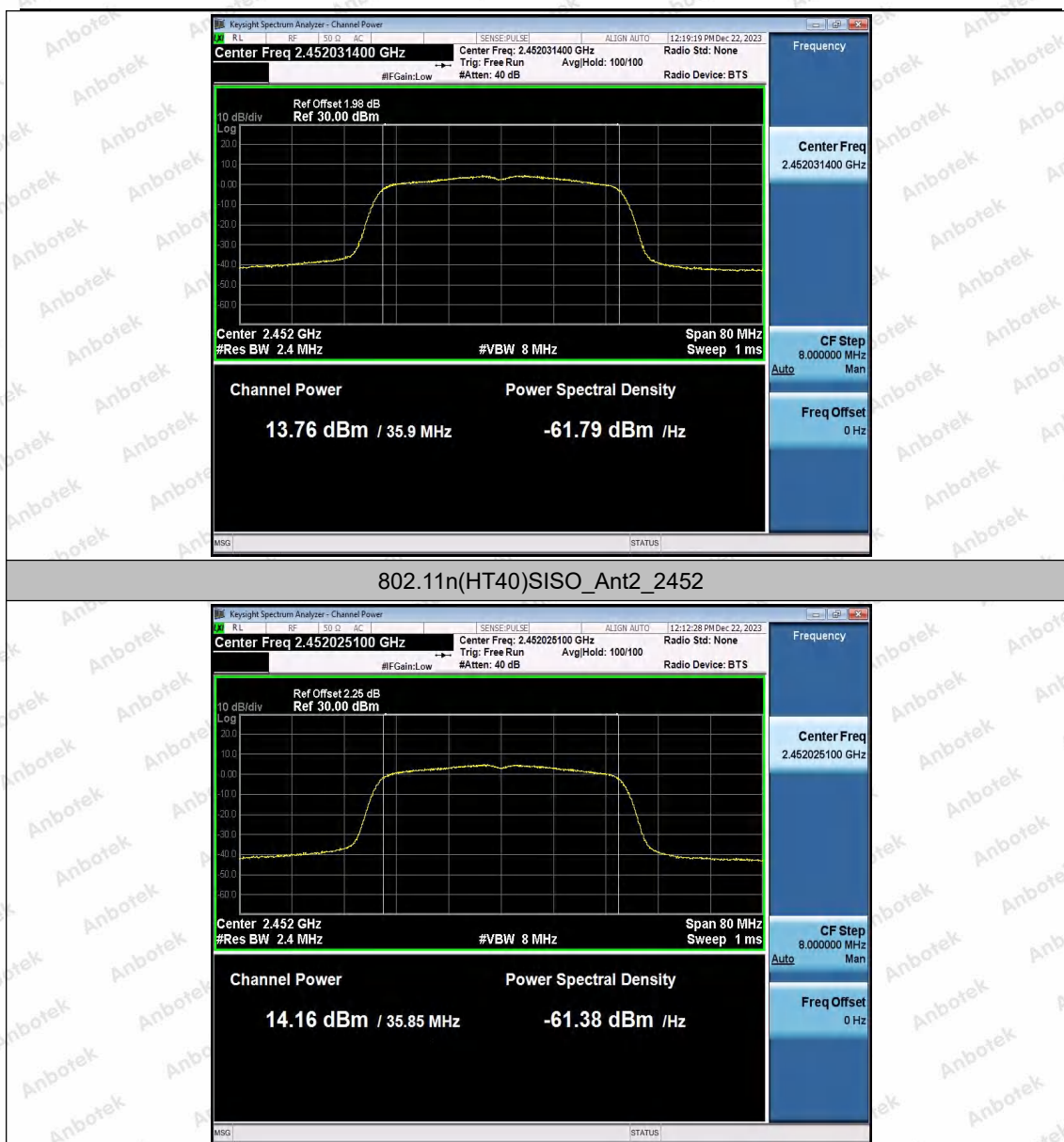
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Appendix D: power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
802.11b	Ant1	2412	-7.42	≤8.00	PASS
	Ant2	2412	-16.57	≤8.00	PASS
	Ant1	2437	-11.44	≤8.00	PASS
	Ant2	2437	-8.50	≤8.00	PASS
	Ant1	2462	-16.74	≤8.00	PASS
	Ant2	2462	-6.67	≤8.00	PASS
802.11g	Ant1	2412	-15.98	≤8.00	PASS
	Ant2	2412	-15.33	≤8.00	PASS
	Ant1	2437	-17.03	≤8.00	PASS
	Ant2	2437	-15.73	≤8.00	PASS
	Ant1	2462	-15.11	≤8.00	PASS
	Ant2	2462	-15.82	≤8.00	PASS
802.11n(HT20)SISO	Ant1	2412	-17.33	≤8.00	PASS
	Ant2	2412	-17.28	≤8.00	PASS
	Ant1	2437	-17.66	≤8.00	PASS
	Ant2	2437	-16.59	≤8.00	PASS
	Ant1	2462	-17.25	≤8.00	PASS
	Ant2	2462	-16.76	≤8.00	PASS
802.11n(HT40)SISO	Ant1	2422	-19.67	≤8.00	PASS
	Ant2	2422	-19.64	≤8.00	PASS
	Ant1	2437	-19.60	≤8.00	PASS
	Ant2	2437	-19.23	≤8.00	PASS
	Ant1	2452	-19.01	≤8.00	PASS
	Ant2	2452	-19.94	≤8.00	PASS

MIMO:

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
802.11n(HT20)MIMO	Ant1+Ant2	2412	-14.29	≤8.00	PASS
	Ant1+Ant2	2437	-14.08	≤8.00	PASS
	Ant1+Ant2	2462	-13.99	≤8.00	PASS
802.11n(HT40)MIMO	Ant1+Ant2	2422	-16.64	≤8.00	PASS
	Ant1+Ant2	2437	-16.40	≤8.00	PASS
	Ant1+Ant2	2452	-16.44	≤8.00	PASS

Note:

1. Total (dBm)=10xlog(10^{(ANT1 power(dBm)/10)} + 10^{(ANT2 power(dBm)/10)})



Test Graphs

802.11b_Ant1_2412



802.11b_Ant2_2412



802.11b_Ant1_2437

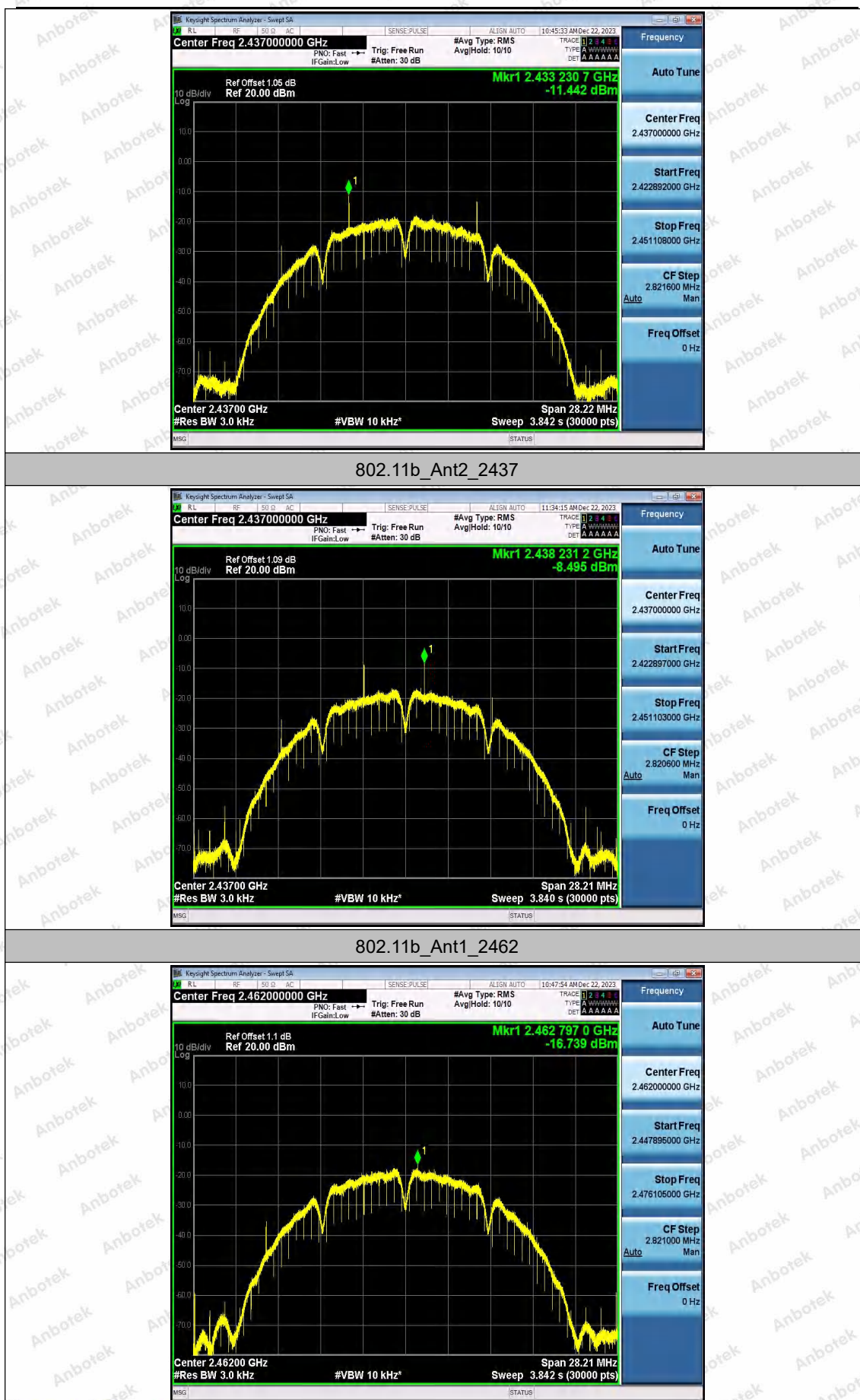
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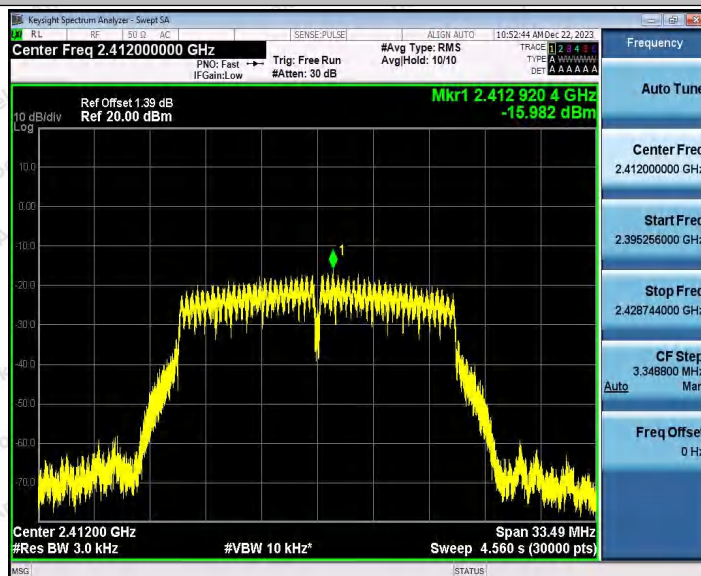
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802.11b_Ant2_2462



802.11g_Ant1_2412



802.11g_Ant2_2412

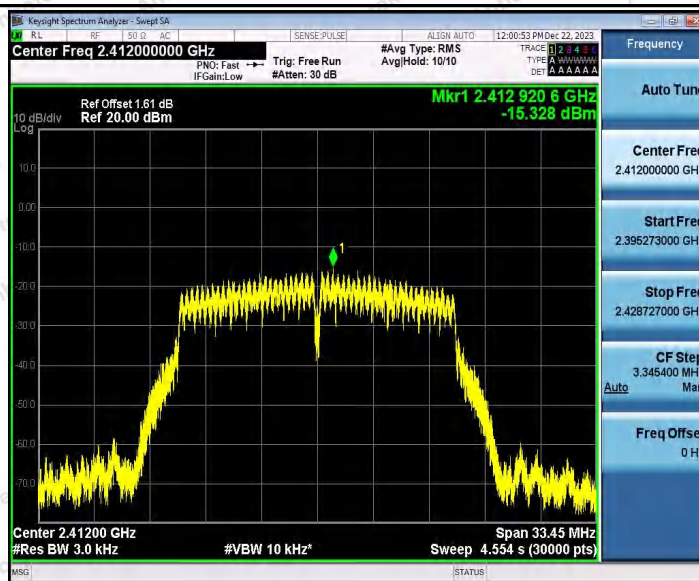
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802.11g_Ant1_2437



802.11g_Ant2_2437



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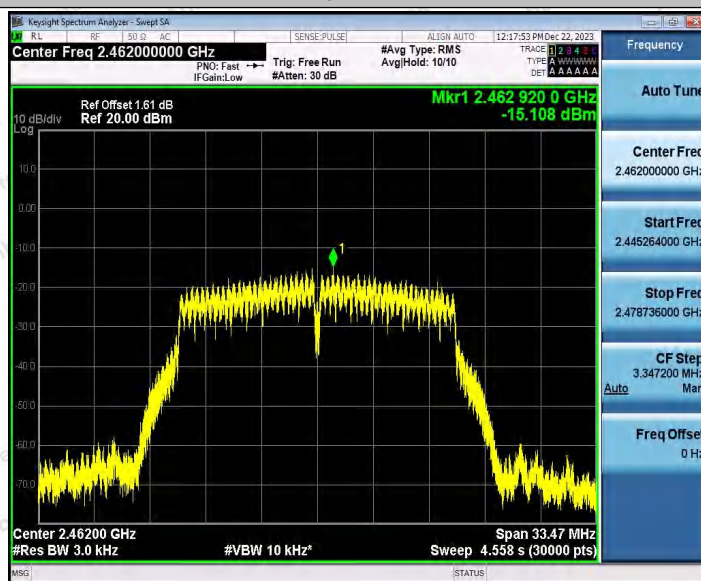
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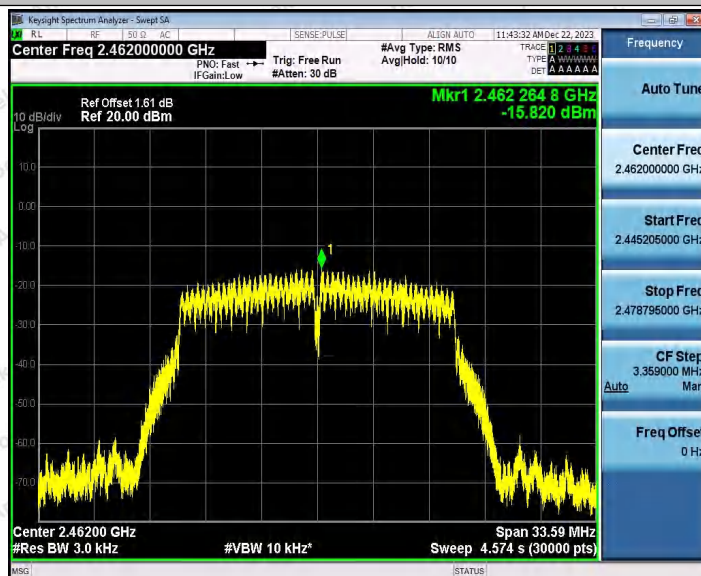
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802.11g_Ant1_2462



802.11g_Ant2_2462



802.11n(HT20)SISO_Ant1_2412

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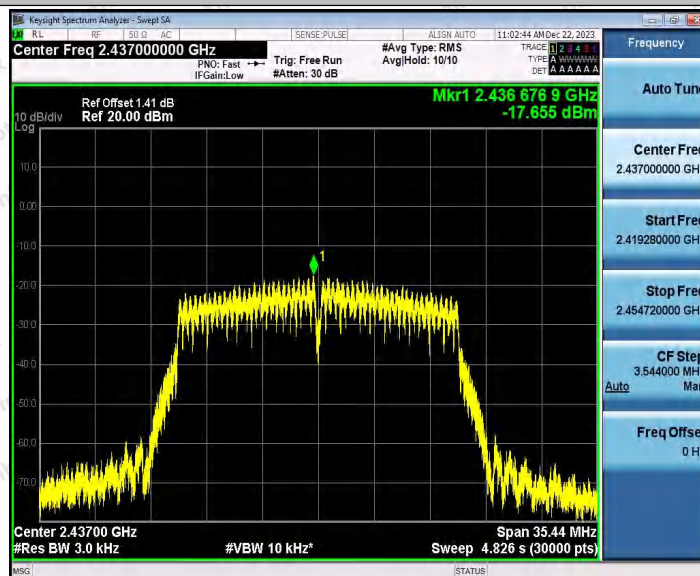




802.11n(HT20)SISO_Ant2_2412



802.11n(HT20)SISO_Ant1_2437



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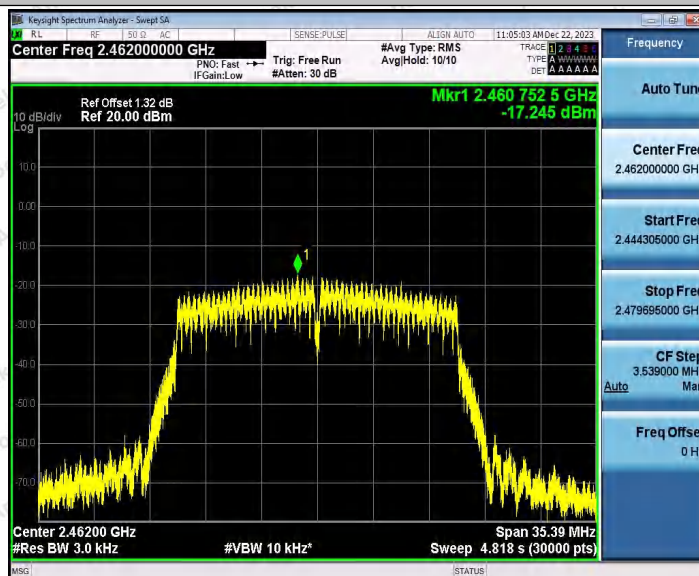
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802.11n(HT20)SISO_Ant2_2437



802.11n(HT20)SISO_Ant1_2462



802.11n(HT20)SISO_Ant2_2462

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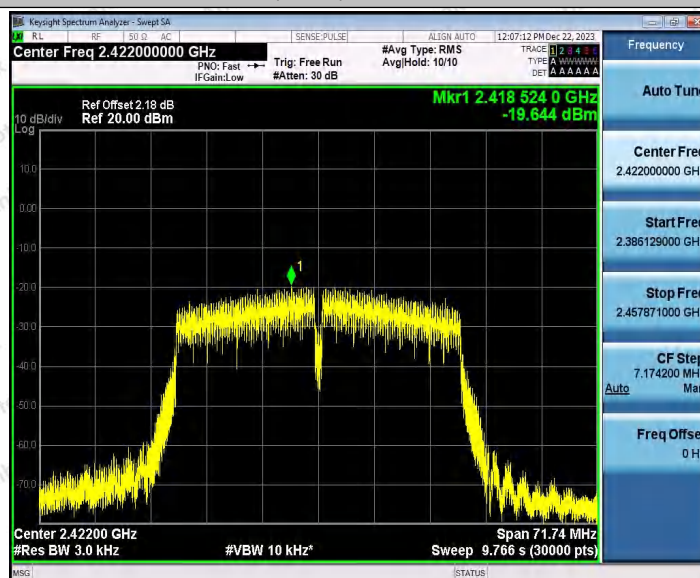




802.11n(HT40)SISO_Ant1_2422



802.11n(HT40)SISO_Ant2_2422



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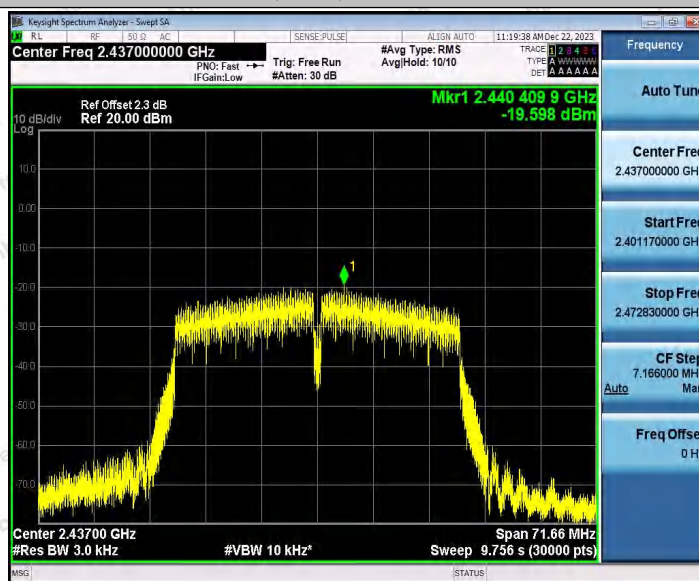
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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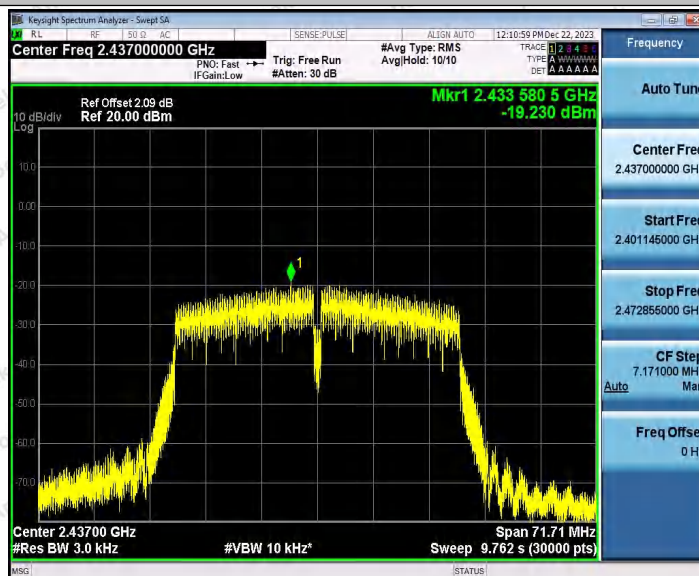
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802.11n(HT40)SISO_Ant1_2437



802.11n(HT40)SISO_Ant2_2437



802.11n(HT40)SISO_Ant1_2452

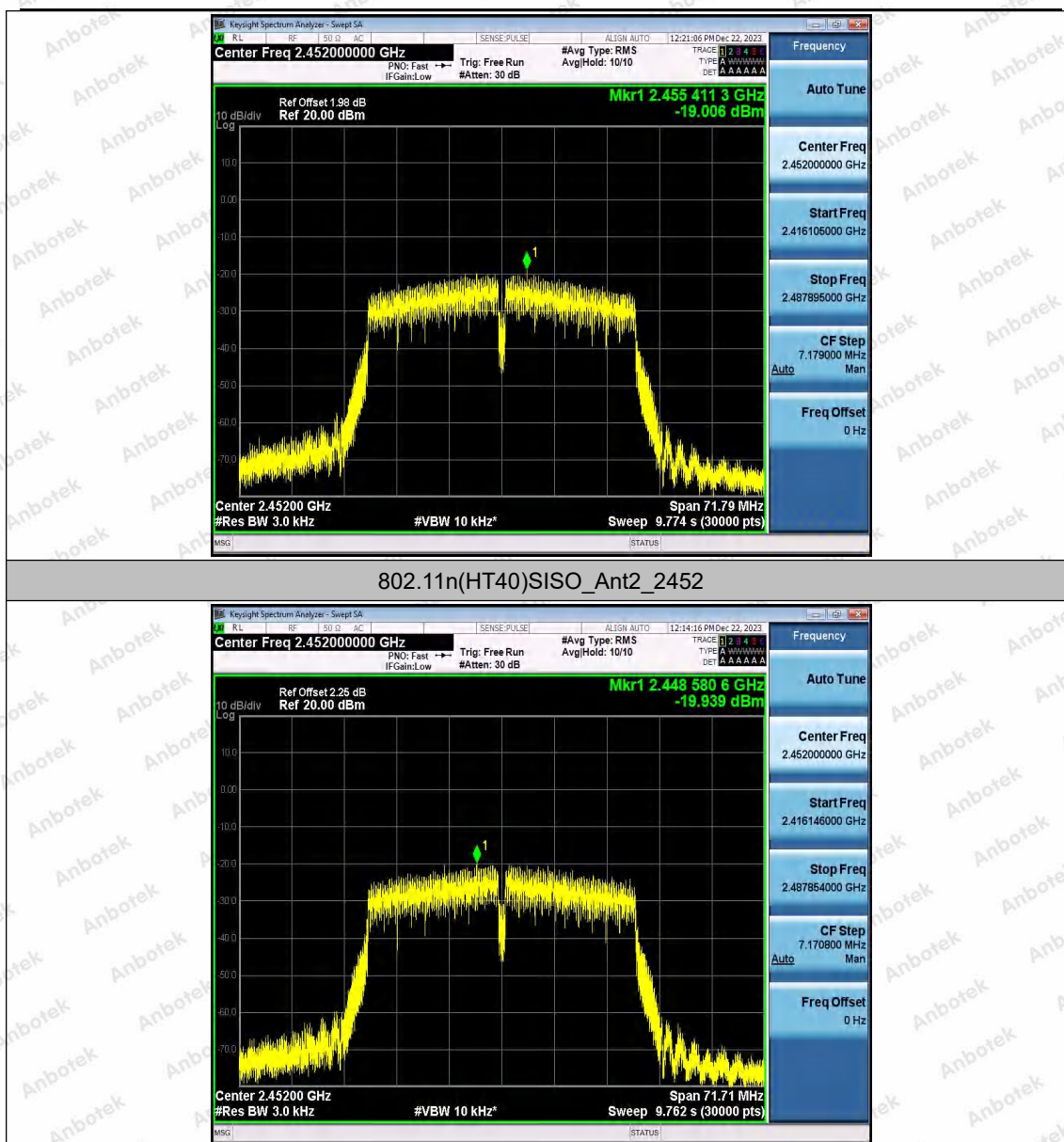
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Appendix E: Band edge measurements

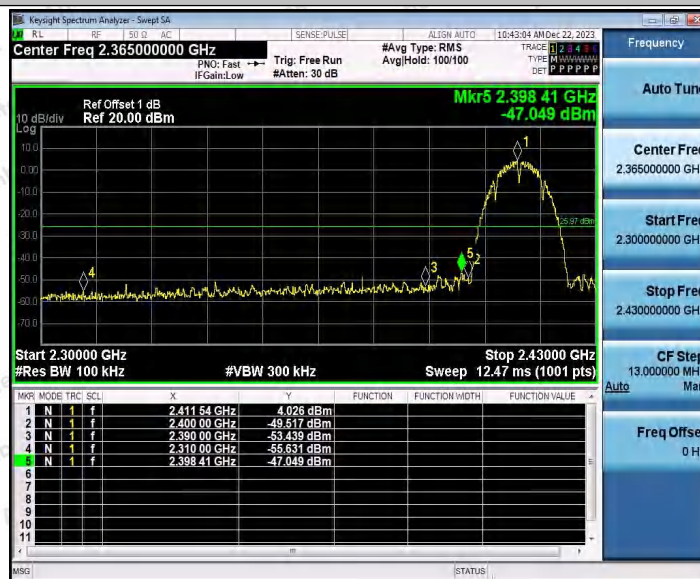
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	4.03	-47.05	≤-25.97	PASS
	Ant2	Low	2412	3.66	-43.19	≤-26.34	PASS
	Ant1	High	2462	3.90	-49.03	≤-26.1	PASS
	Ant2	High	2462	4.86	-47.57	≤-25.14	PASS
802.11g	Ant1	Low	2412	3.63	-40.65	≤-26.37	PASS
	Ant2	Low	2412	4.67	-38.96	≤-25.33	PASS
	Ant1	High	2462	3.75	-49.68	≤-26.25	PASS
	Ant2	High	2462	3.05	-42.39	≤-26.95	PASS
802.11n(HT20) SISO	Ant1	Low	2412	3.00	-41.25	≤-27	PASS
	Ant2	Low	2412	3.32	-40.87	≤-26.69	PASS
	Ant1	High	2462	3.06	-50.35	≤-26.94	PASS
	Ant2	High	2462	3.35	-49.59	≤-26.65	PASS
802.11n(HT40) SISO	Ant1	Low	2422	0.33	-34.56	≤-29.67	PASS
	Ant2	Low	2422	0.94	-36.86	≤-29.06	PASS
	Ant1	High	2452	0.72	-48.52	≤-29.28	PASS
	Ant2	High	2452	0.74	-46.23	≤-29.27	PASS

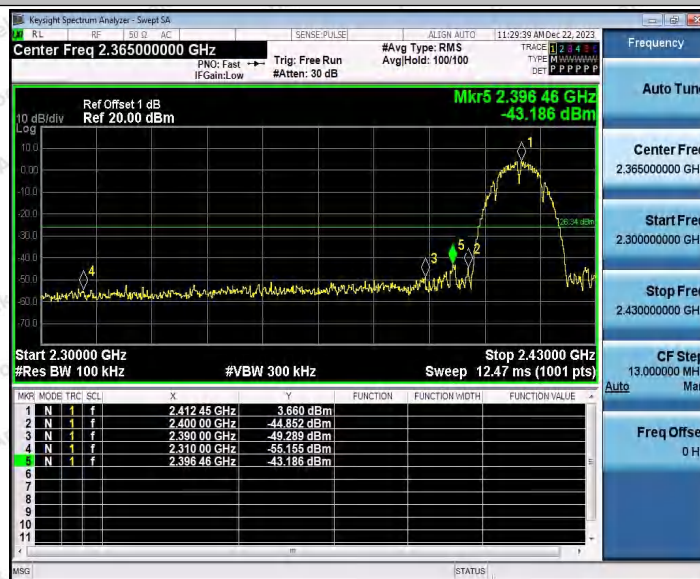


Test Graphs

802.11b_Ant1_Low_2412



802.11b_Ant2_Low_2412



802.11b_Ant1_High_2462

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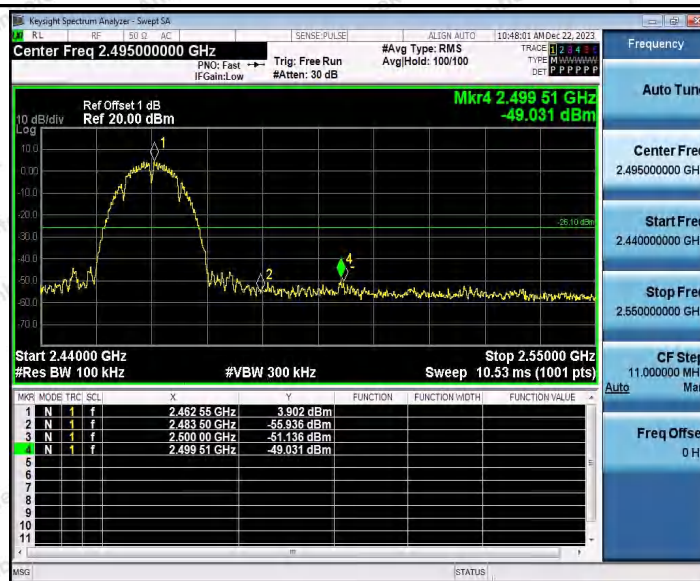


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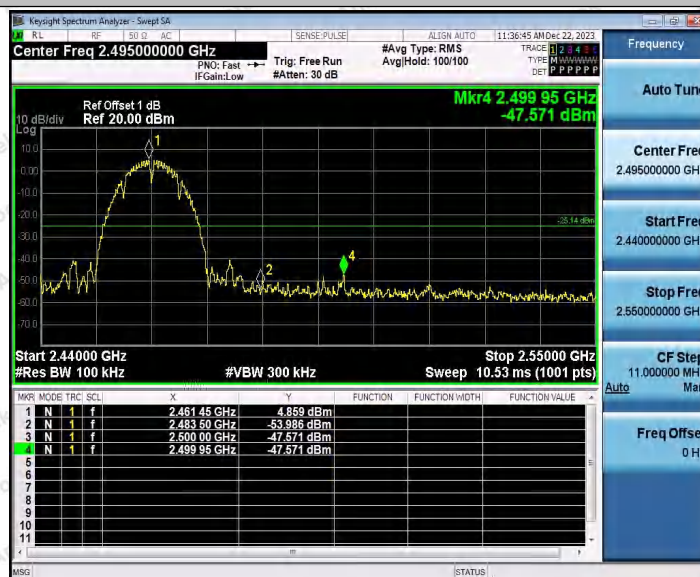
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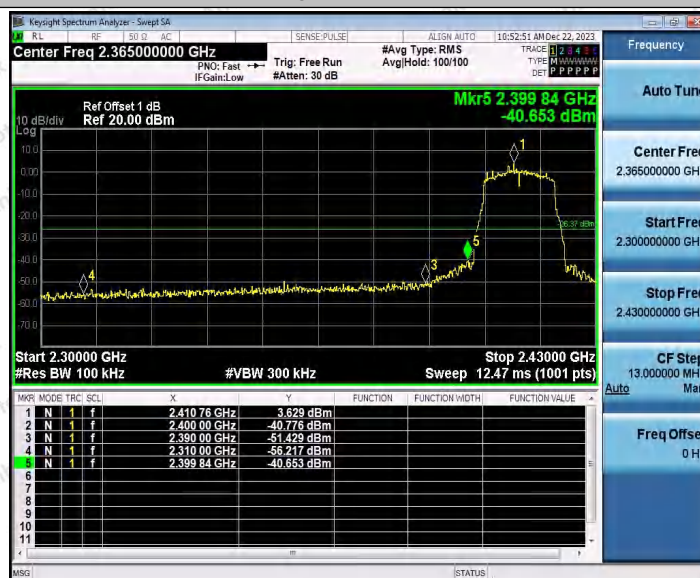




802.11b_Ant2_High_2462



802.11g_Ant1_Low_2412



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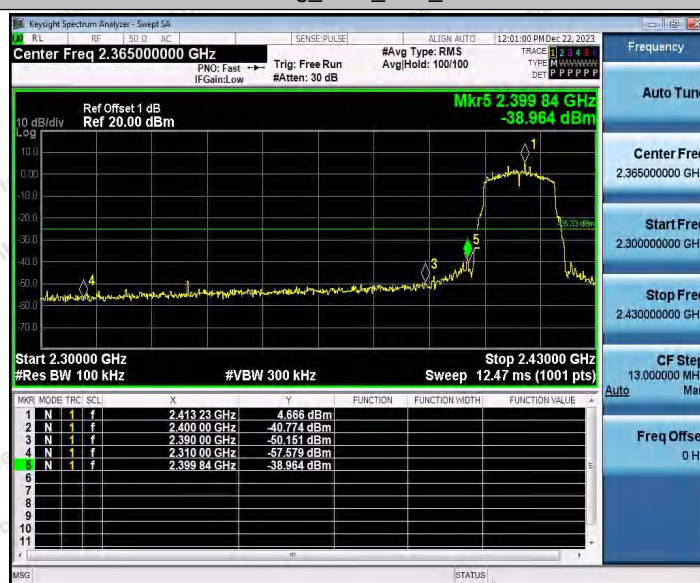
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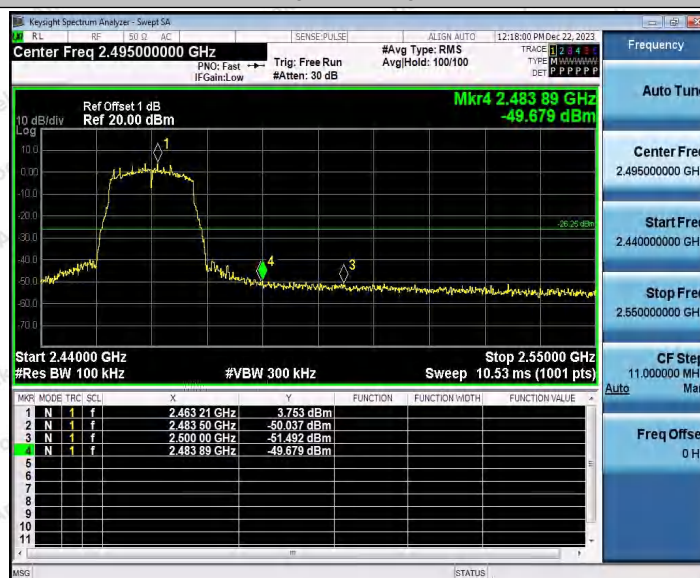
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802.11g_Ant2_Low_2412



802.11g_Ant1_High_2462



802.11g_Ant2_High_2462

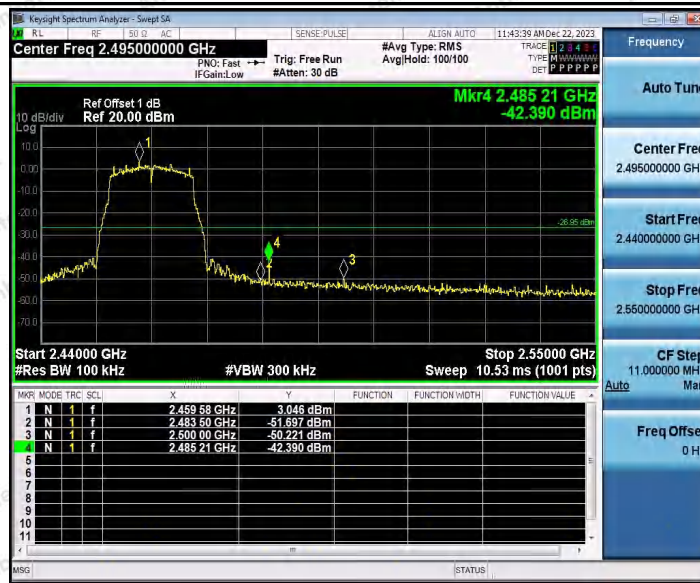
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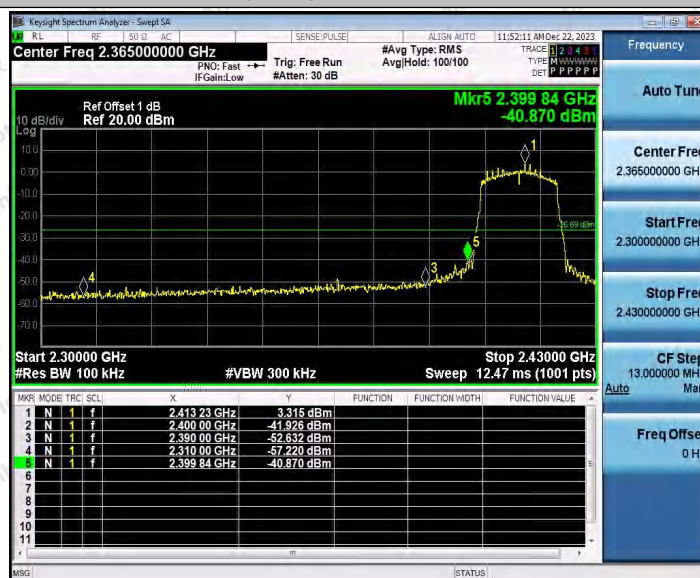




802.11n(HT20)SISO_Ant1_Low_2412



802.11n(HT20)SISO_Ant2_Low_2412



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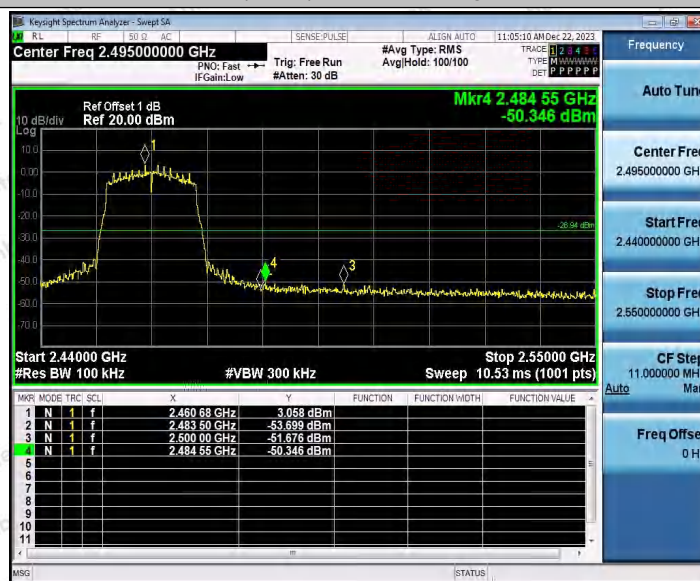
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802.11n(HT20)SISO_Ant1_High_2462



802.11n(HT20)SISO_Ant2_High_2462



802.11n(HT40)SISO_Ant1_Low_2422

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