

Appendix Test Data

Report No.:	18220WC30039903	Test Sample No.:	1-2-2
Start Test Date:	2023.03.15	Finish Test Date:	2023.04.19
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	25.5°C	Relative Humidity:	52%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	≥0.5	PASS
	Ant2	2412	8.040	2408.000	2416.040	≥0.5	PASS
	Ant1	2437	8.120	2432.440	2440.560	≥0.5	PASS
	Ant2	2437	8.520	2432.480	2441.000	≥0.5	PASS
	Ant1	2462	8.040	2457.960	2466.000	≥0.5	PASS
	Ant2	2462	7.080	2457.960	2465.040	≥0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	≥0.5	PASS
	Ant2	2412	14.440	2405.680	2420.120	≥0.5	PASS
	Ant1	2437	15.680	2428.840	2444.520	≥0.5	PASS
	Ant2	2437	13.160	2428.840	2442.000	≥0.5	PASS
	Ant1	2462	10.160	2455.720	2465.880	≥0.5	PASS
	Ant2	2462	14.400	2453.840	2468.240	≥0.5	PASS
11N20	Ant1	2412	13.840	2405.680	2419.520	≥0.5	PASS
	Ant2	2412	16.240	2404.520	2420.760	≥0.5	PASS
	Ant1	2437	16.320	2428.240	2444.560	≥0.5	PASS
	Ant2	2437	13.760	2428.240	2442.000	≥0.5	PASS
	Ant1	2462	14.800	2454.760	2469.560	≥0.5	PASS
	Ant2	2462	16.040	2453.480	2469.520	≥0.5	PASS
11N40	Ant1	2422	33.780	2404.480	2438.260	≥0.5	PASS
	Ant2	2422	32.520	2404.480	2437.000	≥0.5	PASS
	Ant1	2437	35.700	2418.820	2454.520	≥0.5	PASS
	Ant2	2437	36.300	2418.820	2455.120	≥0.5	PASS
	Ant1	2452	34.740	2434.780	2469.520	≥0.5	PASS

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	Ant2	2452	32.580	2435.680	2468.260	≥0.5	PASS
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Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2412



11N20_Ant1_2437



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11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462

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11N40_Ant1_2422



11N40_Ant2_2422



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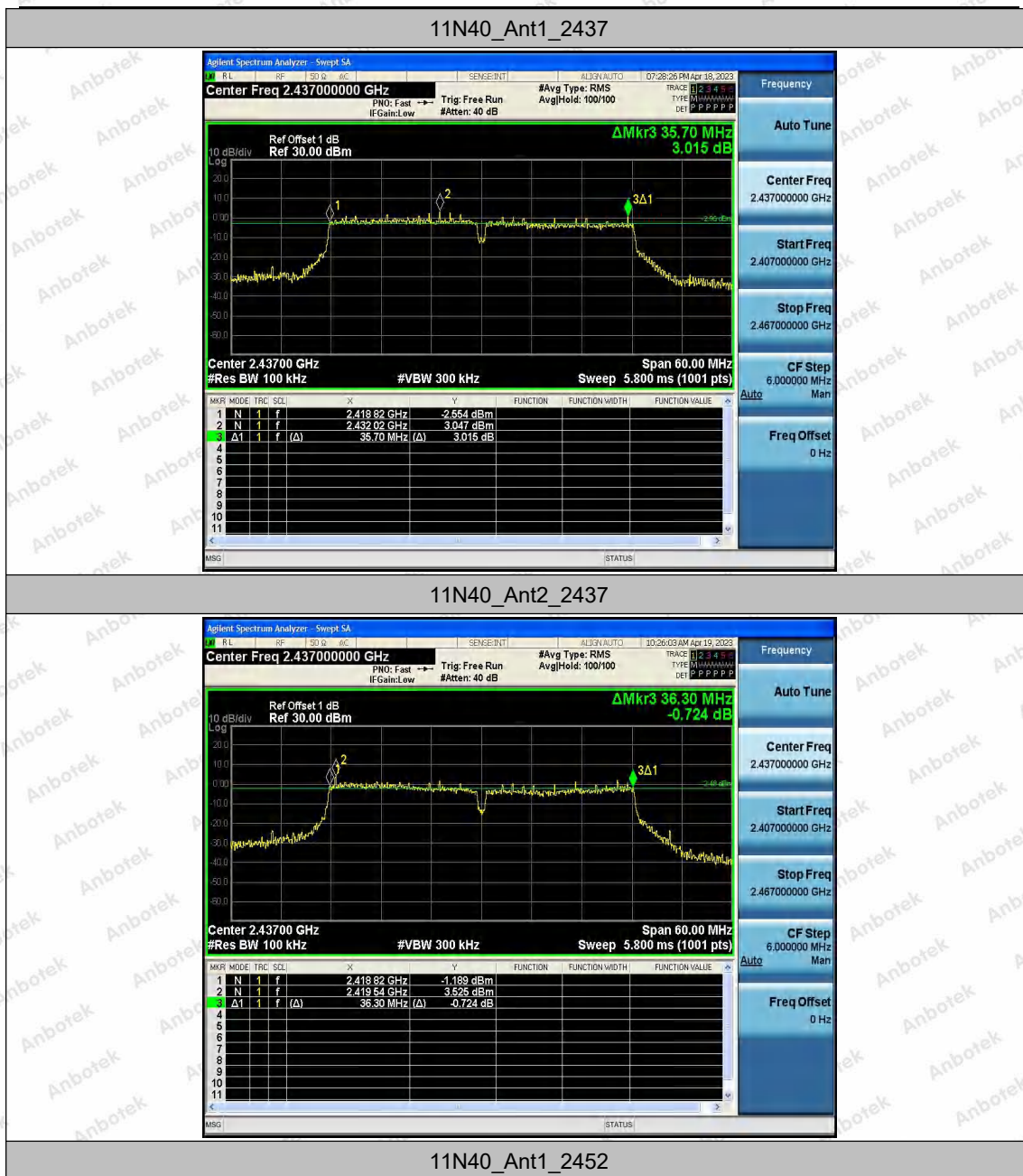


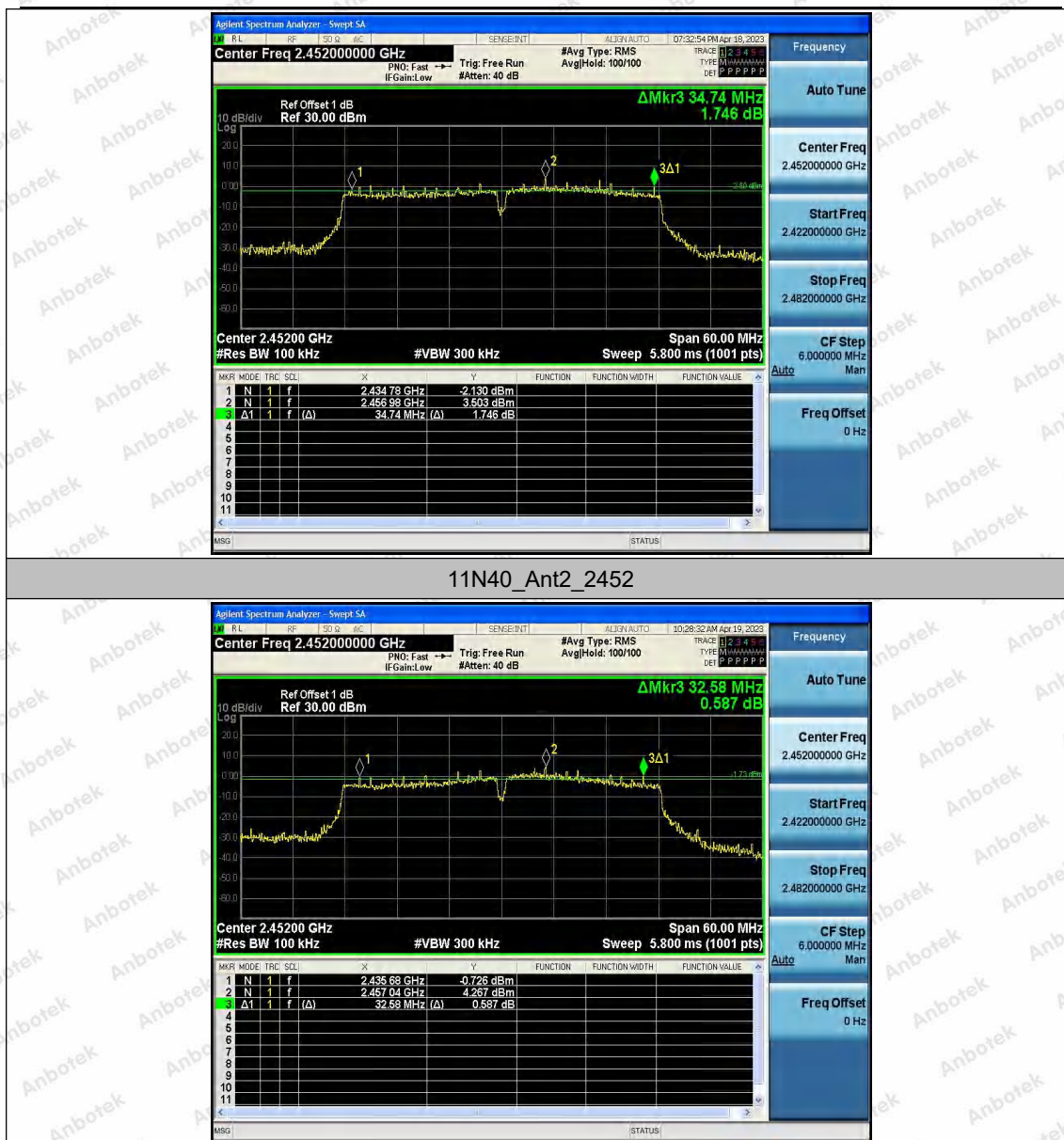
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.743	2405.3503	2419.0933	---	---
	Ant2	2412	13.539	2405.5146	2419.0536	---	---
	Ant1	2437	13.839	2429.9154	2443.7544	---	---
	Ant2	2437	13.691	2429.9529	2443.6439	---	---
	Ant1	2462	13.304	2455.3265	2468.6305	---	---
	Ant2	2462	13.337	2455.0667	2468.4037	---	---
11G	Ant1	2412	16.995	2403.5700	2420.5650	---	---
	Ant2	2412	17.019	2403.5959	2420.6149	---	---
	Ant1	2437	17.094	2428.2979	2445.3919	---	---
	Ant2	2437	17.276	2428.1529	2445.4289	---	---
	Ant1	2462	16.763	2453.5892	2470.3522	---	---
	Ant2	2462	16.714	2453.5614	2470.2754	---	---
11N20	Ant1	2412	18.135	2403.0536	2421.1886	---	---
	Ant2	2412	18.173	2403.0148	2421.1878	---	---
	Ant1	2437	18.266	2427.7040	2445.9700	---	---
	Ant2	2437	18.369	2427.6029	2445.9719	---	---
	Ant1	2462	17.885	2453.0223	2470.9073	---	---
	Ant2	2462	17.865	2452.9655	2470.8305	---	---
11N40	Ant1	2422	36.039	2403.9350	2439.9740	---	---
	Ant2	2422	35.839	2403.9309	2439.7699	---	---
	Ant1	2437	36.382	2418.7977	2455.1797	---	---
	Ant2	2437	36.514	2418.7186	2455.2326	---	---
	Ant1	2452	36.214	2433.8713	2470.0853	---	---
	Ant2	2452	36.071	2433.9551	2470.0261	---	---



Test Graphs



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11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2412



11N20_Ant1_2437



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11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462

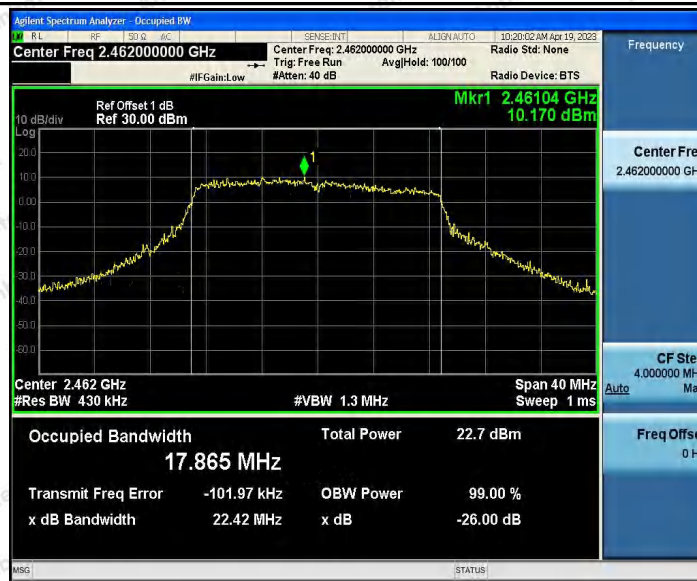
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11N40_Ant1_2422



11N40_Ant2_2422



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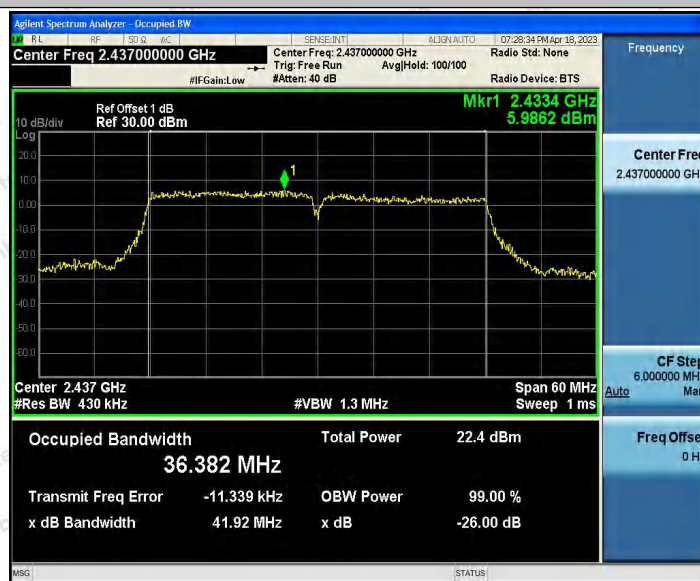
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11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452

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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	20.52	≤30.00
	Ant2	2412	20.97	≤30.00
	Ant1	2437	19.44	≤30.00
	Ant2	2437	17.93	≤30.00
	Ant1	2462	21.22	≤30.00
	Ant2	2462	20.84	≤30.00
11G	Ant1	2412	23.46	≤30.00
	Ant2	2412	24.41	≤30.00
	Ant1	2437	22.55	≤30.00
	Ant2	2437	21.61	≤30.00
	Ant1	2462	24.04	≤30.00
	Ant2	2462	23.92	≤30.00
11N20	Ant1	2412	23.34	≤30.00
	Ant2	2412	24.27	≤30.00
	Ant1	2437	22.51	≤30.00
	Ant2	2437	21.43	≤30.00
	Ant1	2462	23.75	≤30.00
	Ant2	2462	23.70	≤30.00
11N40	Ant1	2422	21.60	≤30.00
	Ant2	2422	21.83	≤30.00
	Ant1	2437	20.82	≤30.00
	Ant2	2437	20.19	≤30.00
	Ant1	2452	20.93	≤30.00
	Ant2	2452	22.14	≤30.00

MIMO:

Test Mode	Antenna	Frequency [MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11N20	Ant1+ANT2	2412	26.84	≤30.00
	Ant1+ANT2	2437	25.01	≤30.00
	Ant1+ANT2	2462	26.74	≤30.00
11N40	Ant1+ANT2	2422	24.73	≤30.00
	Ant1+ANT2	2437	23.53	≤30.00
	Ant1+ANT2	2452	24.59	≤30.00



Appendix D: Maximum power spectral density

Test Result

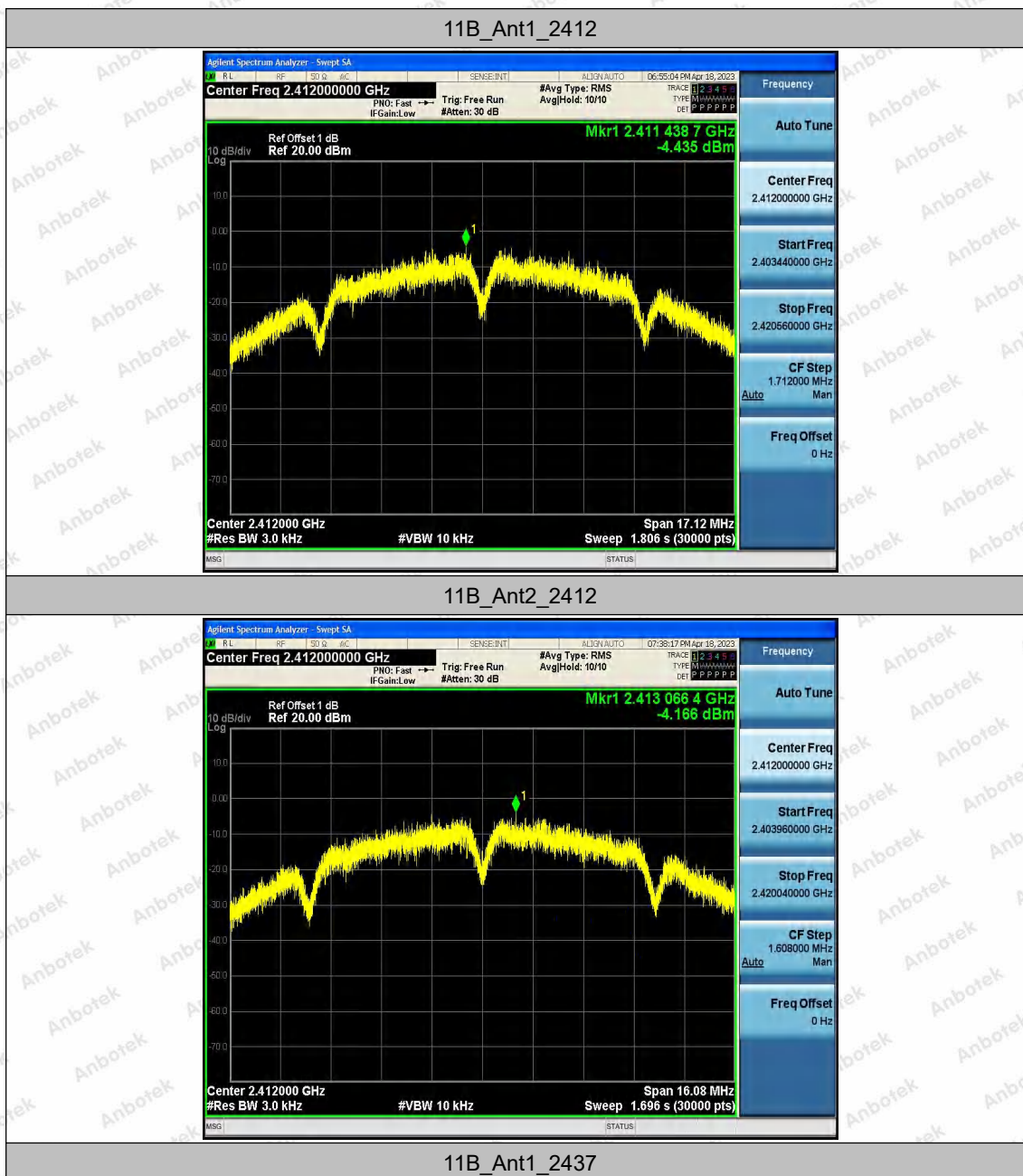
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11B	Ant1	2412	-4.44	≤8.00	PASS
	Ant2	2412	-4.17	≤8.00	PASS
	Ant1	2437	-4.57	≤8.00	PASS
	Ant2	2437	-7.74	≤8.00	PASS
	Ant1	2462	-4.38	≤8.00	PASS
	Ant2	2462	-3.53	≤8.00	PASS
11G	Ant1	2412	-8.01	≤8.00	PASS
	Ant2	2412	-5.44	≤8.00	PASS
	Ant1	2437	-8.43	≤8.00	PASS
	Ant2	2437	-10.74	≤8.00	PASS
	Ant1	2462	-7.76	≤8.00	PASS
	Ant2	2462	-6.92	≤8.00	PASS
11N20	Ant1	2412	-8.93	≤8.00	PASS
	Ant2	2412	-8.24	≤8.00	PASS
	Ant1	2437	-9.21	≤8.00	PASS
	Ant2	2437	-10.09	≤8.00	PASS
	Ant1	2462	-7.24	≤8.00	PASS
	Ant2	2462	-7.56	≤8.00	PASS
11N40	Ant1	2422	-10.35	≤8.00	PASS
	Ant2	2422	-10.12	≤8.00	PASS
	Ant1	2437	-11.69	≤8.00	PASS
	Ant2	2437	-10.2	≤8.00	PASS
	Ant1	2452	-9.88	≤8.00	PASS
	Ant2	2452	-9.4	≤8.00	PASS

MIMO:

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	Ant1+ANT2	2412	-5.56	≤8.00	PASS
	Ant1+ANT2	2437	-6.62	≤8.00	PASS
	Ant1+ANT2	2462	-4.39	≤8.00	PASS
11N40	Ant1+ANT2	2422	-7.22	≤8.00	PASS
	Ant1+ANT2	2437	-7.87	≤8.00	PASS
	Ant1+ANT2	2452	-6.62	≤8.00	PASS



Test Graphs



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11B_Ant2_2437



11B_Ant1_2462



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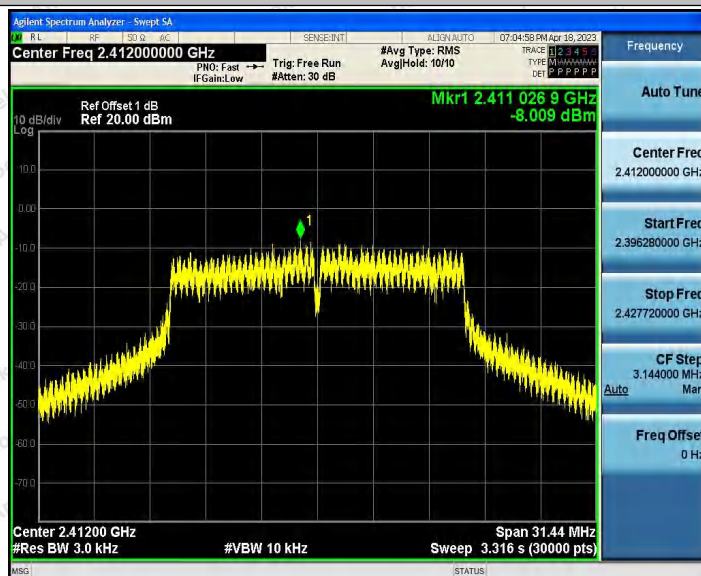
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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

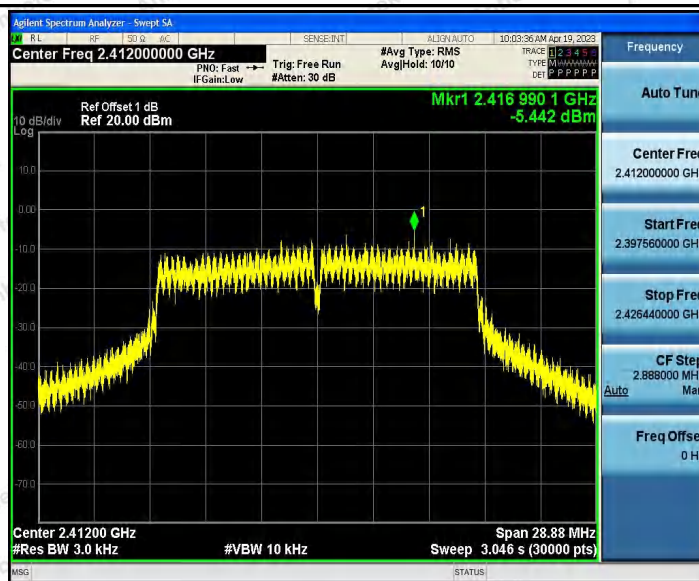
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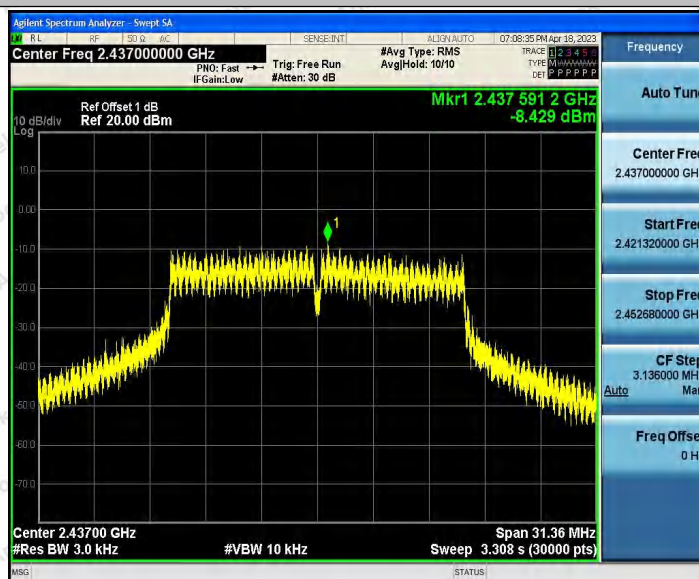


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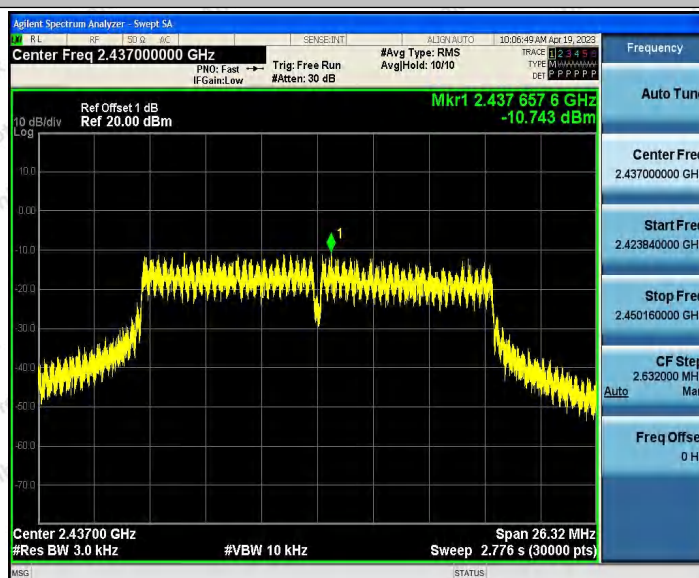




11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412

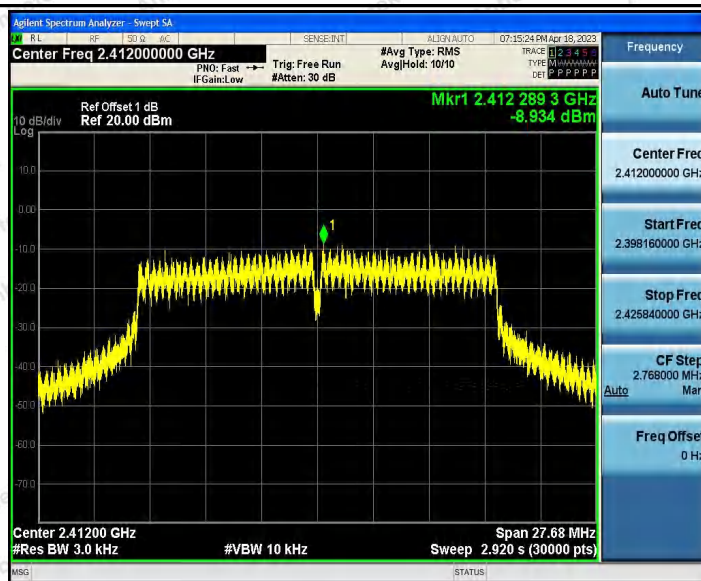
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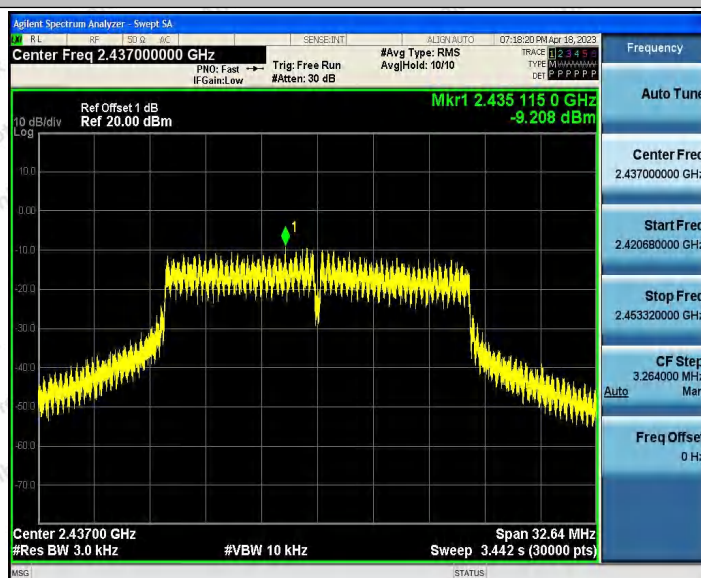




11N20_Ant2_2412



11N20_Ant1_2437



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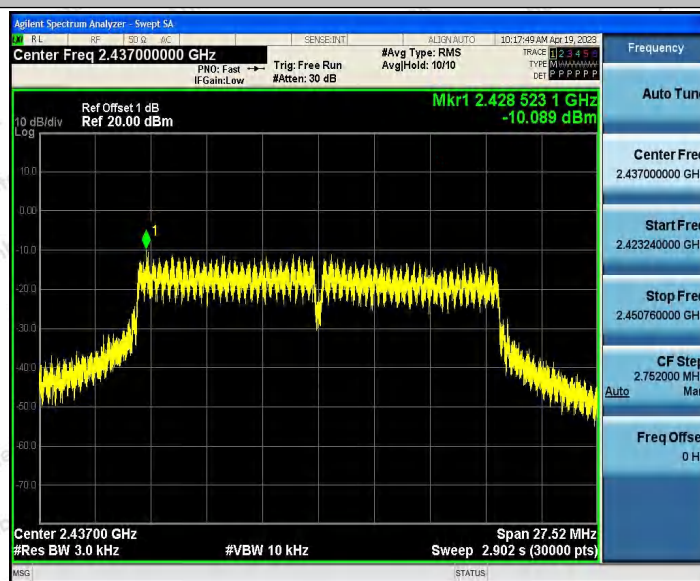
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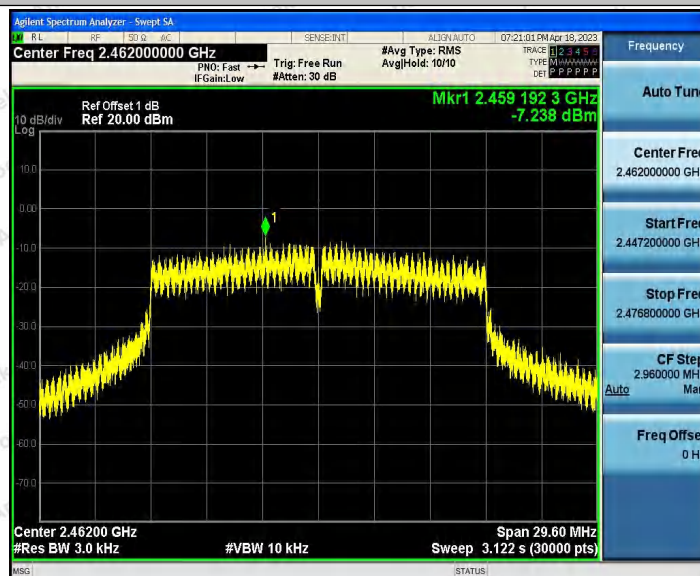
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11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462

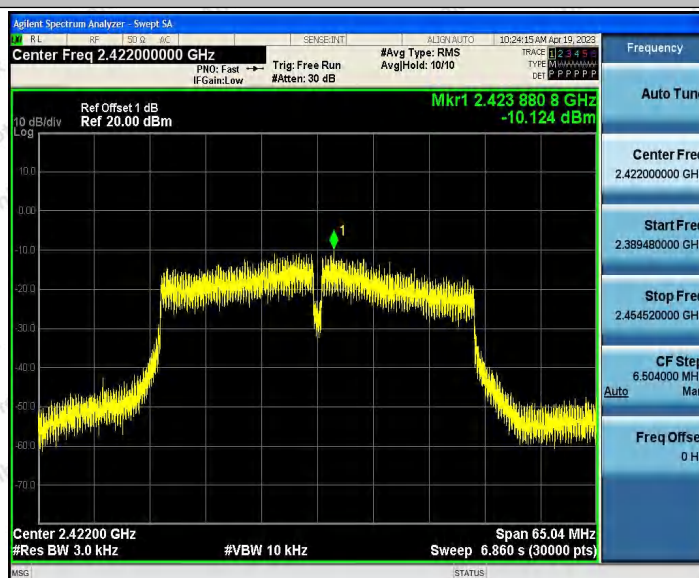
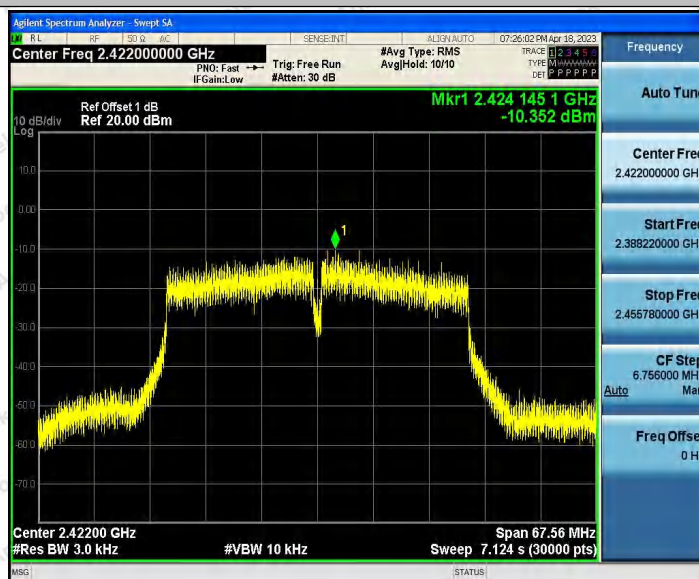
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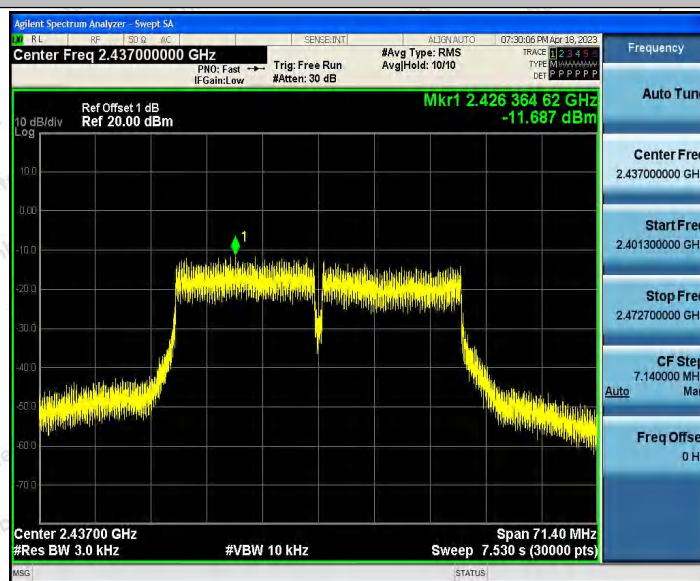
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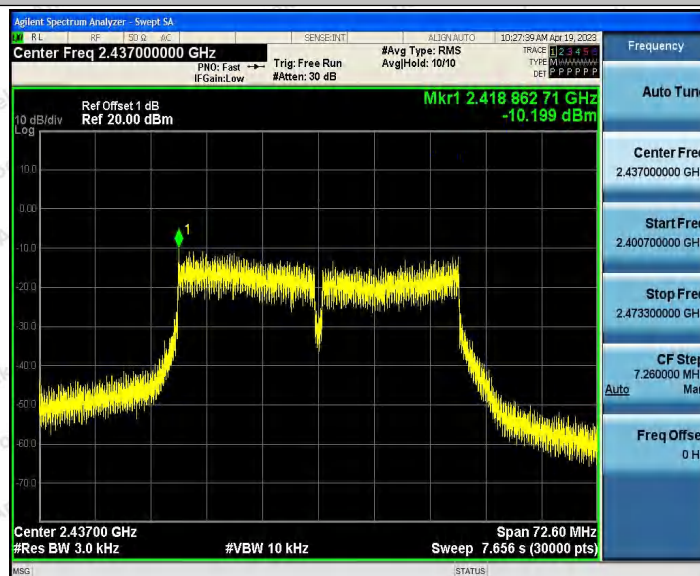
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11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452

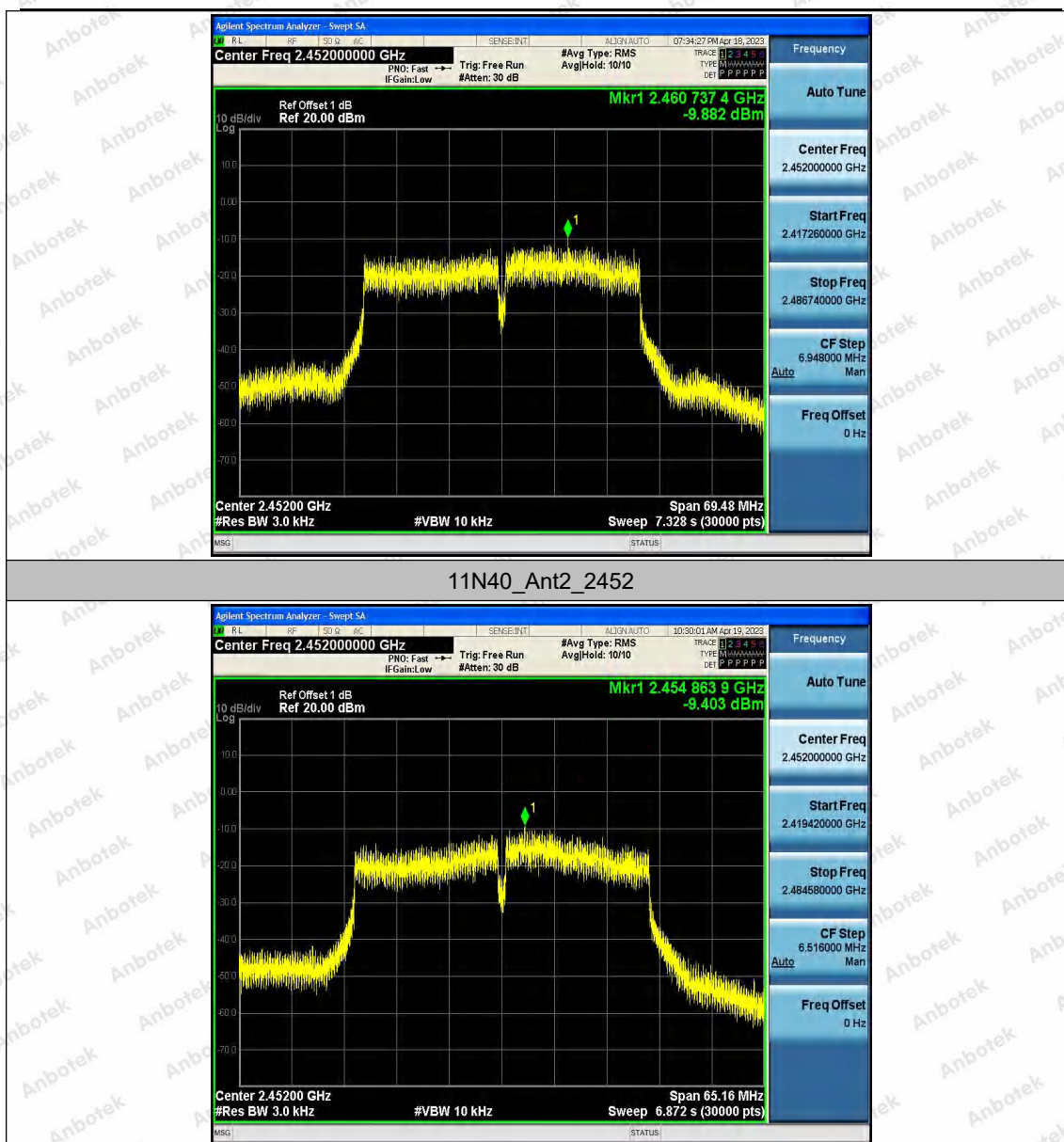
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Appendix E: Band edge measurements

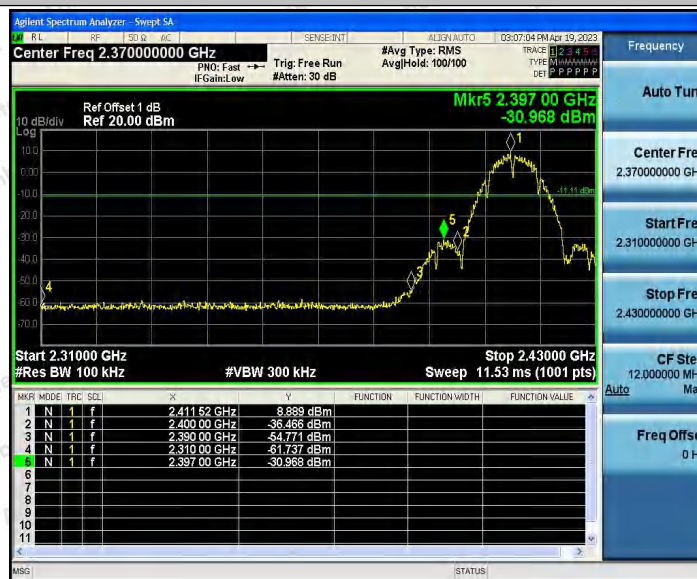
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.89	-30.97	≤-11.11	PASS
	Ant2	Low	2412	9.58	-29.45	≤-10.42	PASS
	Ant1	High	2462	10.03	-54.4	≤-9.97	PASS
	Ant2	High	2462	8.91	-54.48	≤-11.09	PASS
11G	Ant1	Low	2412	6.98	-24.94	≤-13.02	PASS
	Ant2	Low	2412	6.20	-24.22	≤-13.8	PASS
	Ant1	High	2462	6.40	-41.51	≤-13.61	PASS
	Ant2	High	2462	7.41	-44.4	≤-12.59	PASS
11N20	Ant1	Low	2412	5.82	-23.4	≤-14.18	PASS
	Ant2	Low	2412	8.10	-23.8	≤-11.9	PASS
	Ant1	High	2462	6.27	-40.61	≤-13.73	PASS
	Ant2	High	2462	6.16	-41.55	≤-13.84	PASS
11N40	Ant1	Low	2422	3.33	-28.15	≤-16.67	PASS
	Ant2	Low	2422	3.91	-26.11	≤-16.09	PASS
	Ant1	High	2452	2.72	-35.83	≤-17.28	PASS
	Ant2	High	2452	5.30	-33.83	≤-14.7	PASS

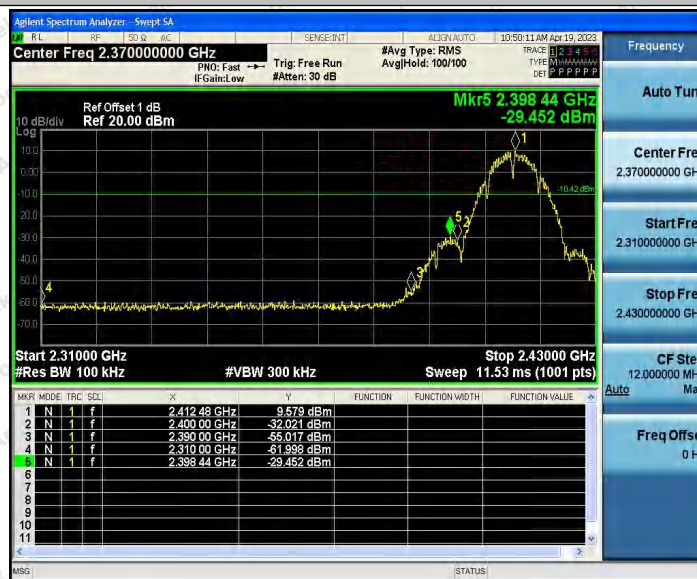


Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462

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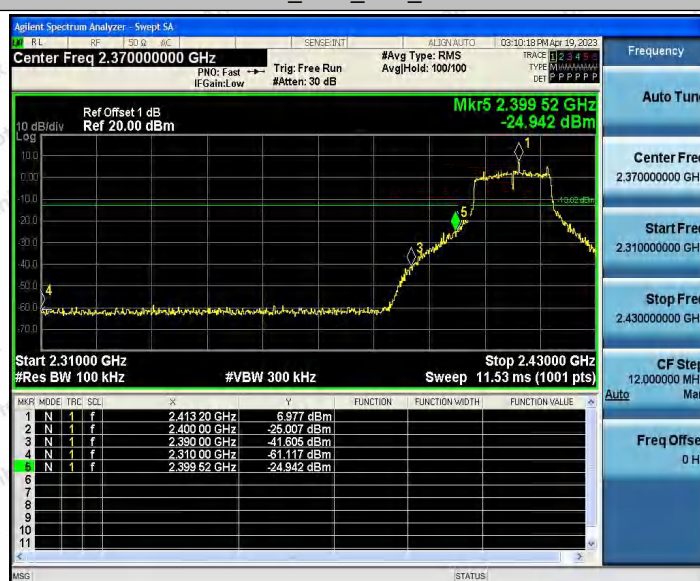




11B_Ant2_High_2462



11G_Ant1_Low_2412



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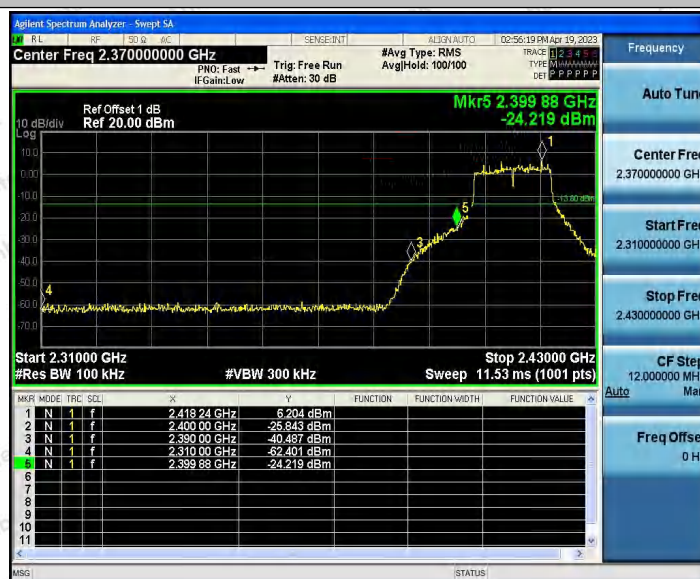
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11G_Ant2_Low_2412



11G_Ant1_High_2462



11G_Ant2_High_2462

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11N20_Ant1_Low_2412



11N20_Ant2_Low_2412



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11N20_Ant1_High_2462



11N20_Ant2_High_2462



11N40_Ant1_Low_2422

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11N40_Ant2_Low_2422



11N40_Ant1_High_2452



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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	7.18	7.18	---	PASS
			30~1000	7.18	-69.14	≤-12.82	PASS
			1000~26500	7.18	-54.55	≤-12.82	PASS
	Ant2	2412	Reference	9.17	9.17	---	PASS
			30~1000	9.17	-68.57	≤-10.83	PASS
			1000~26500	9.17	-45.47	≤-10.83	PASS
	Ant1	2437	Reference	7.09	7.09	---	PASS
			30~1000	7.09	-68.77	≤-12.91	PASS
			1000~26500	7.09	-54.47	≤-12.91	PASS
	Ant2	2437	Reference	4.53	4.53	---	PASS
			30~1000	4.53	-69.49	≤-15.47	PASS
			1000~26500	4.53	-45.82	≤-15.47	PASS
	Ant1	2462	Reference	8.85	8.85	---	PASS
			30~1000	8.85	-68.77	≤-11.15	PASS
			1000~26500	8.85	-53.99	≤-11.15	PASS
	Ant2	2462	Reference	7.70	7.70	---	PASS
			30~1000	7.70	-68.77	≤-12.3	PASS
			1000~26500	7.70	-48.86	≤-12.3	PASS
11G	Ant1	2412	Reference	4.47	4.47	---	PASS
			30~1000	4.47	-68.12	≤-15.53	PASS
			1000~26500	4.47	-54.31	≤-15.53	PASS
	Ant2	2412	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-69.08	≤-16.7	PASS
			1000~26500	3.30	-54.19	≤-16.7	PASS
	Ant1	2437	Reference	4.53	4.53	---	PASS
			30~1000	4.53	-68.72	≤-15.47	PASS
			1000~26500	4.53	-54.95	≤-15.47	PASS
	Ant2	2437	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-69.35	≤-19.58	PASS
			1000~26500	0.42	-54.34	≤-19.58	PASS
	Ant1	2462	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-67.55	≤-15.29	PASS
			1000~26500	4.71	-54.75	≤-15.29	PASS
	Ant2	2462	Reference	3.51	3.51	---	PASS
			30~1000	3.51	-69.2	≤-16.49	PASS
			1000~26500	3.51	-53.81	≤-16.49	PASS
11N20	Ant1	2412	Reference	6.98	6.98	---	PASS

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11N40	Ant2	2412	30~1000	6.98	-69.11	≤ -13.02	PASS
			1000~26500	6.98	-54.95	≤ -13.02	PASS
			Reference	4.43	4.43	---	PASS
			30~1000	4.43	-68.49	≤ -15.57	PASS
			1000~26500	4.43	-53.7	≤ -15.57	PASS
			Reference	1.94	1.94	---	PASS
	Ant1	2437	30~1000	1.94	-68.73	≤ -18.06	PASS
			1000~26500	1.94	-53.69	≤ -18.06	PASS
			Reference	1.26	1.26	---	PASS
	Ant2	2437	30~1000	1.26	-68.68	≤ -18.74	PASS
			1000~26500	1.26	-53.88	≤ -18.74	PASS
			Reference	5.82	5.82	---	PASS
	Ant1	2462	30~1000	5.82	-69.12	≤ -14.18	PASS
			1000~26500	5.82	-54.66	≤ -14.18	PASS
			Reference	3.07	3.07	---	PASS
	Ant2	2462	30~1000	3.07	-68.58	≤ -16.93	PASS
			1000~26500	3.07	-54.48	≤ -16.93	PASS
			Reference	1.38	1.38	---	PASS
	Ant1	2422	30~1000	1.38	-69	≤ -18.62	PASS
			1000~26500	1.38	-54.73	≤ -18.62	PASS
			Reference	3.27	3.27	---	PASS
	Ant2	2422	30~1000	3.27	-69.7	≤ -16.73	PASS
			1000~26500	3.27	-54.6	≤ -16.73	PASS
			Reference	2.33	2.33	---	PASS
	Ant1	2437	30~1000	2.33	-68.12	≤ -17.67	PASS
			1000~26500	2.33	-54.81	≤ -17.67	PASS
			Reference	0.21	0.21	---	PASS
	Ant2	2437	30~1000	0.21	-68.84	≤ -19.79	PASS
			1000~26500	0.21	-54.61	≤ -19.79	PASS
			Reference	0.24	0.24	---	PASS
	Ant1	2452	30~1000	0.24	-69	≤ -19.76	PASS
			1000~26500	0.24	-55.05	≤ -19.76	PASS
			Reference	3.32	3.32	---	PASS
	Ant2	2452	30~1000	3.32	-68.77	≤ -16.68	PASS
			1000~26500	3.32	-54.41	≤ -16.68	PASS

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