

Appendix Test Data

Report No.:	18220WC20284201	Test Sample No.:	1-2-2
Start Test Date:	2022.12.14	Finish Test Date:	2022.12.20
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.560	2408.480	2416.040	≥0.5	PASS
	Ant2	2412	8.080	2407.960	2416.040	≥0.5	PASS
	Ant1	2437	7.520	2433.520	2441.040	≥0.5	PASS
	Ant2	2437	8.040	2432.960	2441.000	≥0.5	PASS
	Ant1	2462	8.000	2458.000	2466.000	≥0.5	PASS
	Ant2	2462	7.520	2458.480	2466.000	≥0.5	PASS
11G	Ant1	2412	13.840	2405.720	2419.560	≥0.5	PASS
	Ant2	2412	14.800	2405.360	2420.160	≥0.5	PASS
	Ant1	2437	14.080	2430.680	2444.760	≥0.5	PASS
	Ant2	2437	15.360	2429.440	2444.800	≥0.5	PASS
	Ant1	2462	15.680	2454.440	2470.120	≥0.5	PASS
	Ant2	2462	15.360	2454.520	2469.880	≥0.5	PASS
11N20	Ant1	2412	15.840	2404.920	2420.760	≥0.5	PASS
	Ant2	2412	15.040	2404.440	2419.480	≥0.5	PASS
	Ant1	2437	14.440	2430.680	2445.120	≥0.5	PASS
	Ant2	2437	14.240	2430.680	2444.920	≥0.5	PASS
	Ant1	2462	14.080	2454.440	2468.520	≥0.5	PASS
	Ant2	2462	13.760	2455.360	2469.120	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462





11B_Ant2_2462



11G_Ant1_2412





11G_Ant2_2412



11G_Ant1_2437

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11G_Ant2_2437



11G_Ant1_2462





11G_Ant2_2462



11N20_Ant1_2412

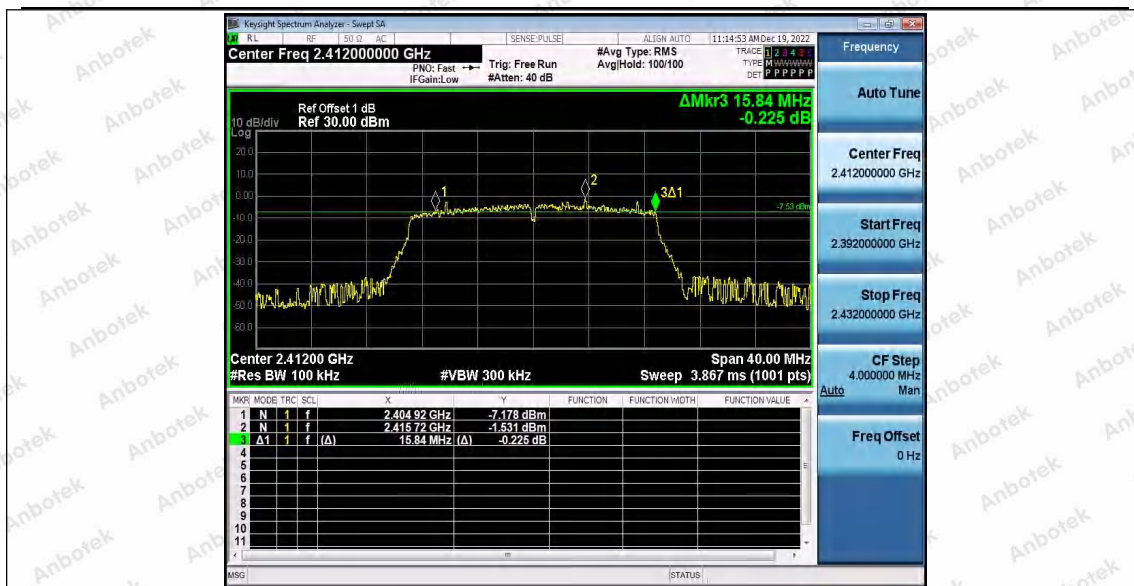
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11N20_Ant2_2412



11N20_Ant1_2437



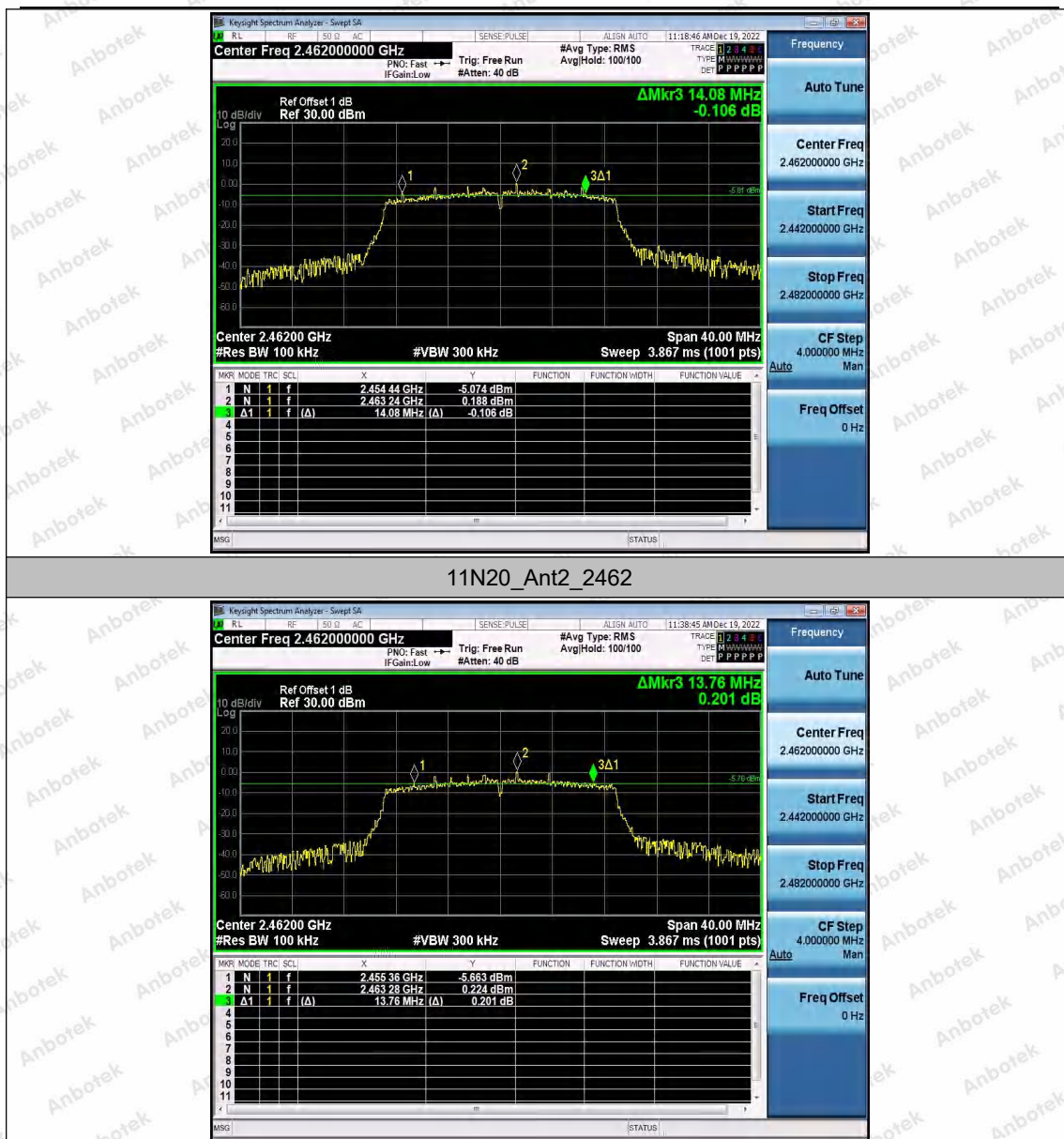


11N20_Ant2_2437



11N20_Ant1_2462





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.717	2405.7773	2418.4943
	Ant2	2412	12.718	2405.7748	2418.4928
	Ant1	2437	12.631	2430.8465	2443.4775
	Ant2	2437	12.635	2430.8410	2443.4760
	Ant1	2462	12.597	2455.8536	2468.4506
	Ant2	2462	12.614	2455.8437	2468.4577
11G	Ant1	2412	16.812	2403.6935	2420.5055
	Ant2	2412	16.794	2403.6964	2420.4904
	Ant1	2437	16.799	2428.7539	2445.5529
	Ant2	2437	16.897	2428.6468	2445.5438
	Ant1	2462	16.779	2453.7244	2470.5034
	Ant2	2462	16.871	2453.6375	2470.5085
11N20	Ant1	2412	17.772	2403.2417	2421.0137
	Ant2	2412	17.796	2403.1759	2420.9719
	Ant1	2437	17.880	2428.1570	2446.0370
	Ant2	2437	17.843	2428.2188	2446.0618
	Ant1	2462	17.882	2453.1526	2471.0346
	Ant2	2462	17.835	2453.1991	2471.0341



Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2462



11G_Ant1_2412

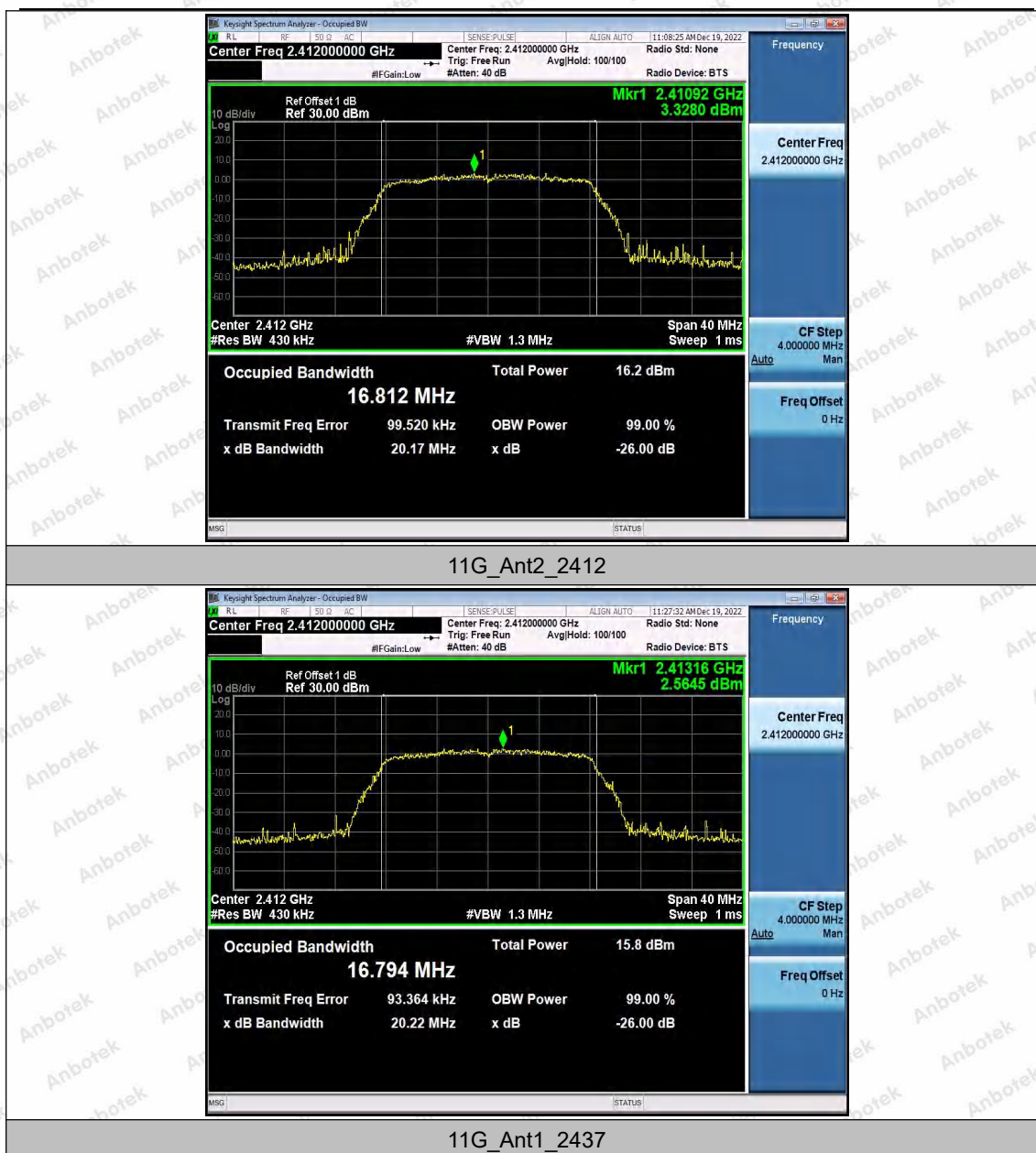
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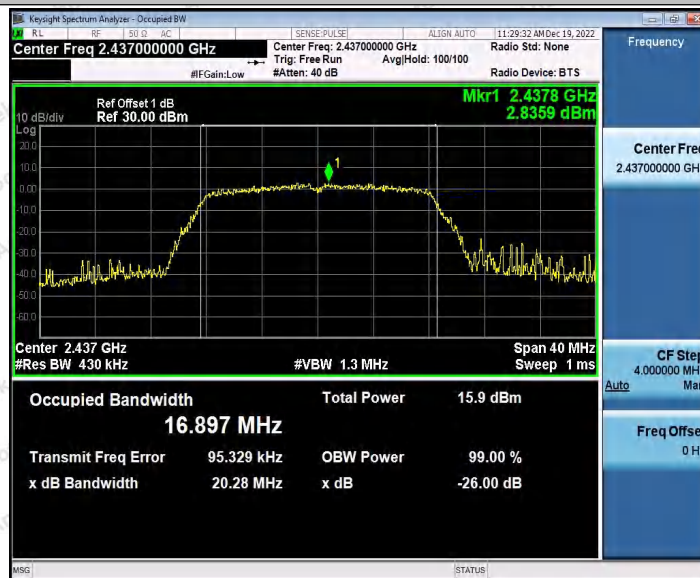


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11G_Ant2_2437



11G_Ant1_2462

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11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2412

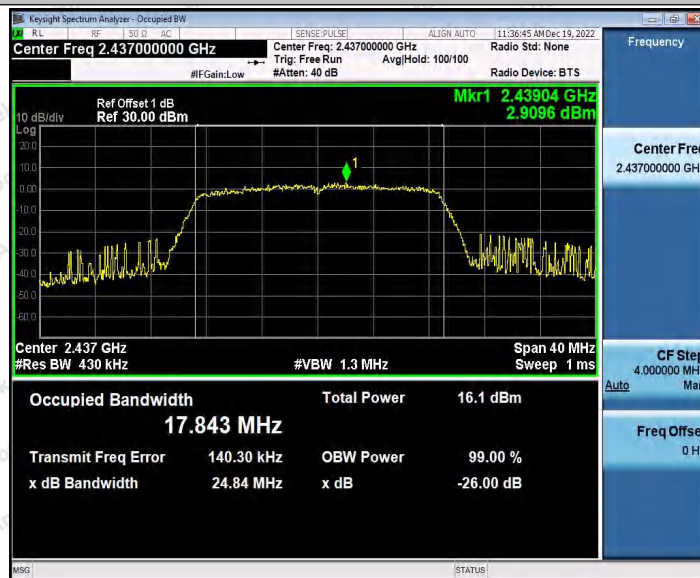


11N20_Ant1_2437





11N20_Ant2_2437



11N20_Ant1_2462

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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	17.99	≤30.00
	Ant2	2412	17.96	≤30.00
	Ant1	2437	17.89	≤30.00
	Ant2	2437	18.08	≤30.00
	Ant1	2462	18.12	≤30.00
	Ant2	2462	18.35	≤30.00
11G	Ant1	2412	17.26	≤30.00
	Ant2	2412	17.04	≤30.00
	Ant1	2437	17.39	≤30.00
	Ant2	2437	17.19	≤30.00
	Ant1	2462	17.63	≤30.00
	Ant2	2462	17.40	≤30.00
11N20	Ant1	2412	17.12	≤30.00
	Ant2	2412	17.09	≤30.00
	Ant1	2437	17.25	≤30.00
	Ant2	2437	17.31	≤30.00
	Ant1	2462	17.49	≤30.00
	Ant2	2462	17.44	≤30.00

MIMO:

Test Mode	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11N20	2412	20.12	≤30.00
	2437	20.29	≤30.00
	2462	20.48	≤30.00



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.04	≤8.00	PASS
	Ant2	2412	-7.13	≤8.00	PASS
	Ant1	2437	-7.34	≤8.00	PASS
	Ant2	2437	-7.52	≤8.00	PASS
	Ant1	2462	-6.85	≤8.00	PASS
	Ant2	2462	-5.27	≤8.00	PASS
11G	Ant1	2412	-14.88	≤8.00	PASS
	Ant2	2412	-13.26	≤8.00	PASS
	Ant1	2437	-13.63	≤8.00	PASS
	Ant2	2437	-14.81	≤8.00	PASS
	Ant1	2462	-13.31	≤8.00	PASS
	Ant2	2462	-14.12	≤8.00	PASS
11N20	Ant1	2412	-15.07	≤8.00	PASS
	Ant2	2412	-13.1	≤8.00	PASS
	Ant1	2437	-14.09	≤8.00	PASS
	Ant2	2437	-14.25	≤8.00	PASS
	Ant1	2462	-13.95	≤8.00	PASS
	Ant2	2462	-13.5	≤8.00	PASS

MIMO:

Test Mode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	2412	-10.96	≤8.00	PASS
	2437	-11.16	≤8.00	PASS
	2462	-10.71	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462





11B_Ant2_2462



11G_Ant1_2412





11G_Ant2_2412



11G_Ant1_2437

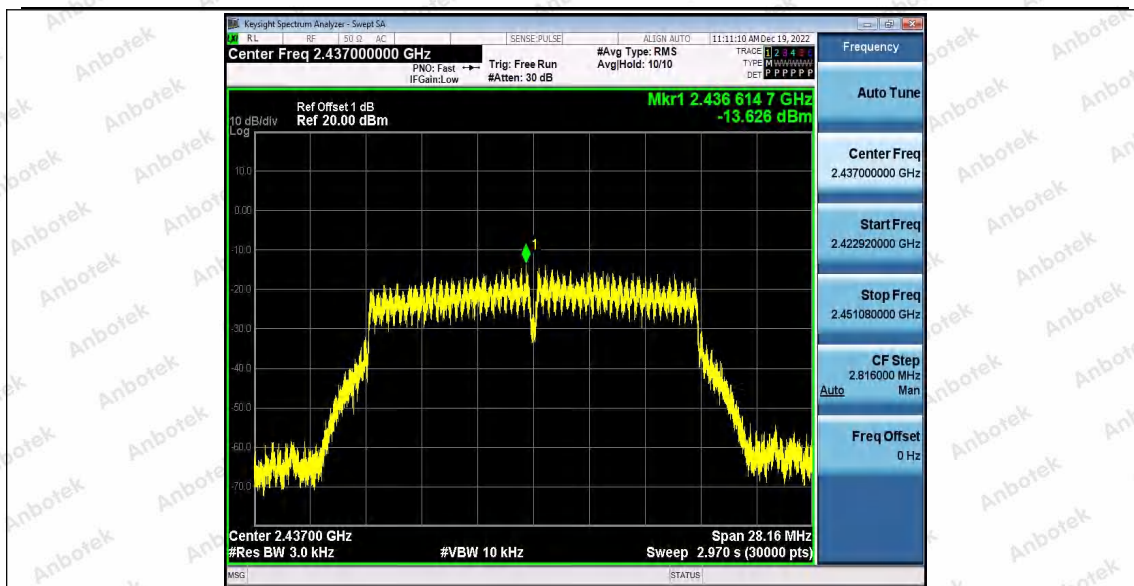
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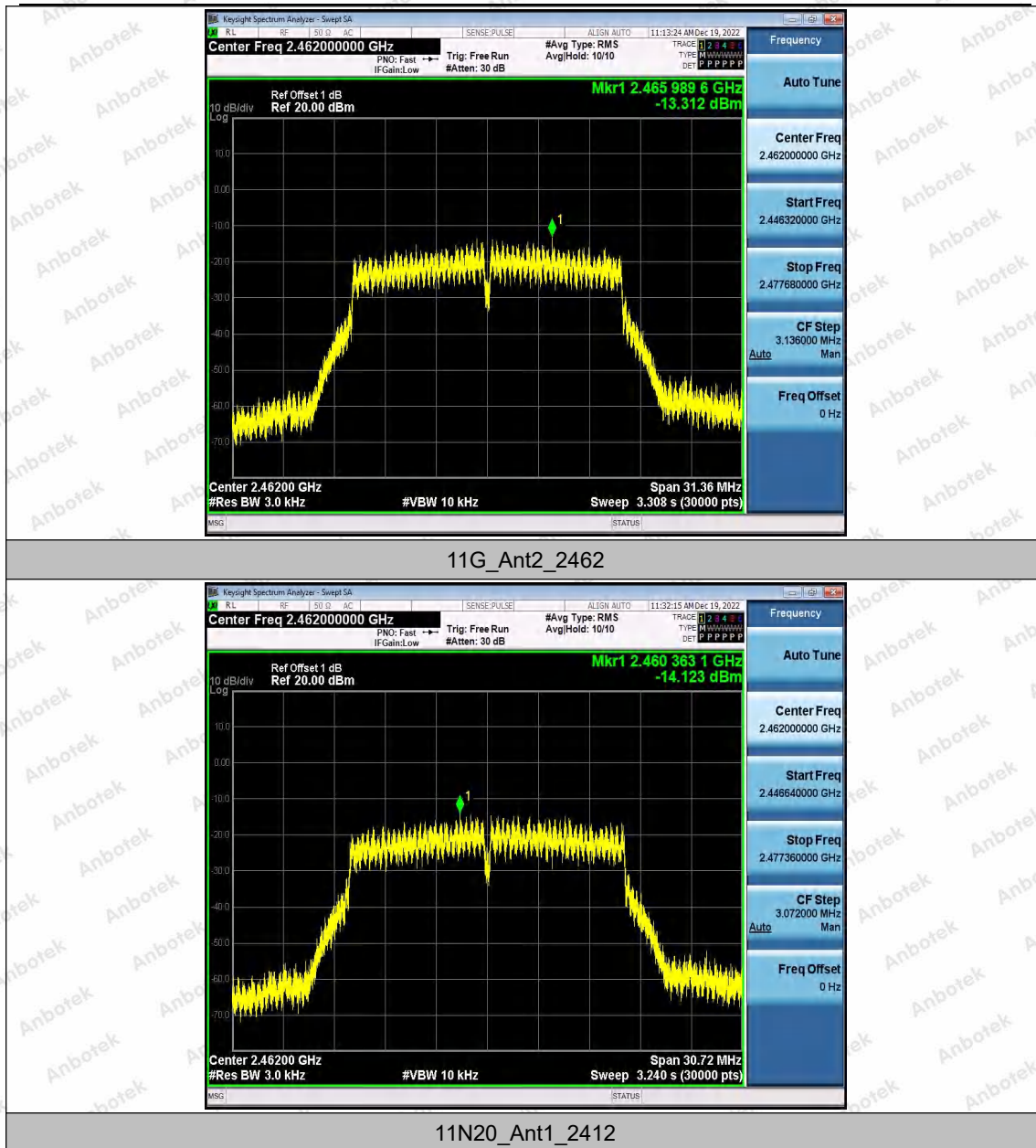


11G_Ant2_2437



11G_Ant1_2462





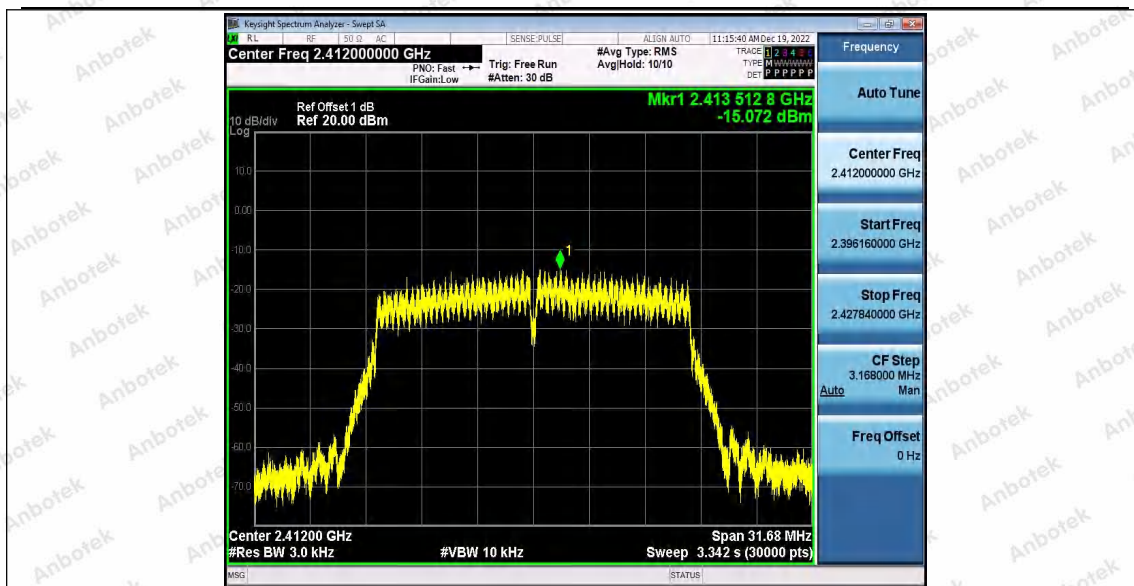
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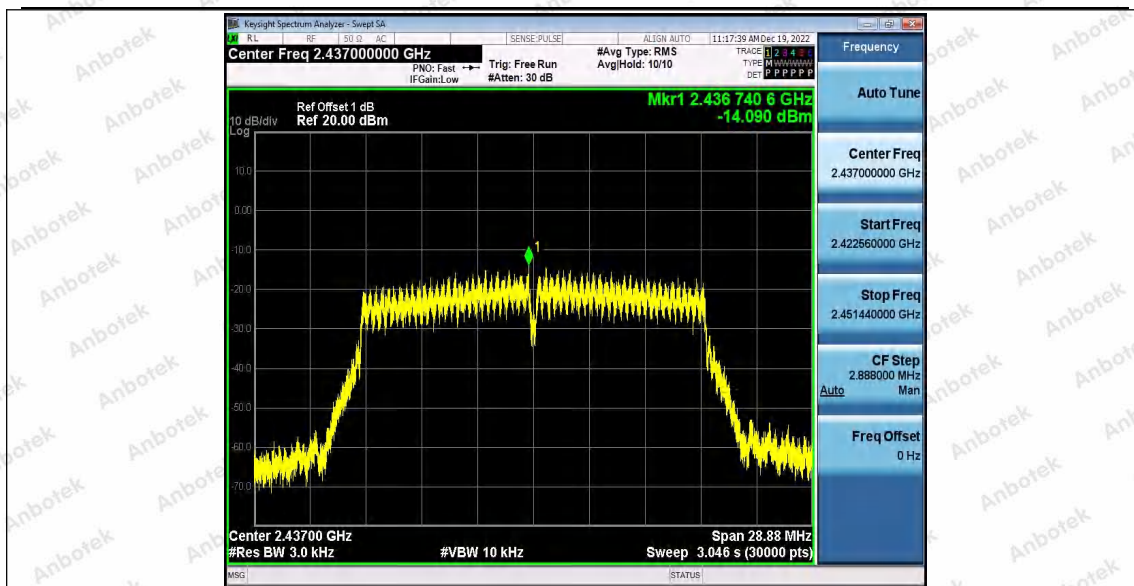
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11N20_Ant2_2437



11N20_Ant1_2462

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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.56	-44.49	≤-13.44	PASS
	Ant2	Low	2412	6.91	-45.37	≤-13.09	PASS
	Ant1	High	2462	7.16	-53.91	≤-12.84	PASS
	Ant2	High	2462	7.66	-52.81	≤-12.34	PASS
11G	Ant1	Low	2412	-0.13	-36.87	≤-20.13	PASS
	Ant2	Low	2412	-0.20	-45.19	≤-20.2	PASS
	Ant1	High	2462	0.22	-42.53	≤-19.78	PASS
	Ant2	High	2462	-0.46	-45.11	≤-20.46	PASS
11N20	Ant1	Low	2412	-2.03	-37.9	≤-22.03	PASS
	Ant2	Low	2412	-0.44	-39.08	≤-20.44	PASS
	Ant1	High	2462	-0.34	-37.95	≤-20.34	PASS
	Ant2	High	2462	-1.49	-41.71	≤-21.49	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

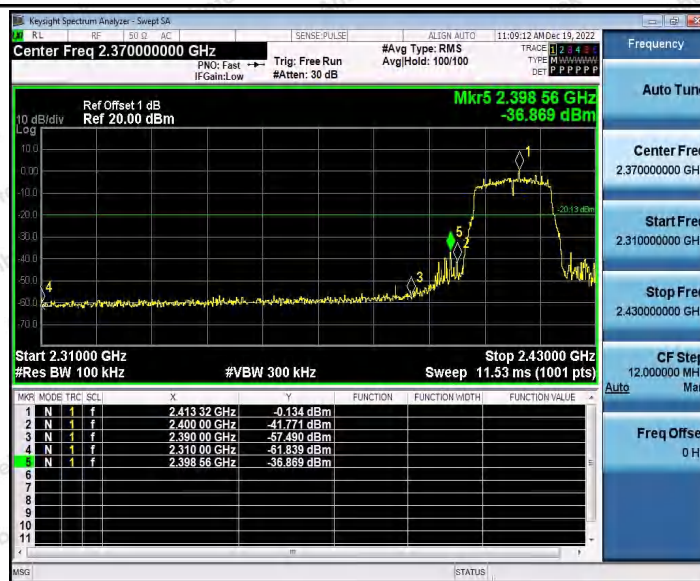
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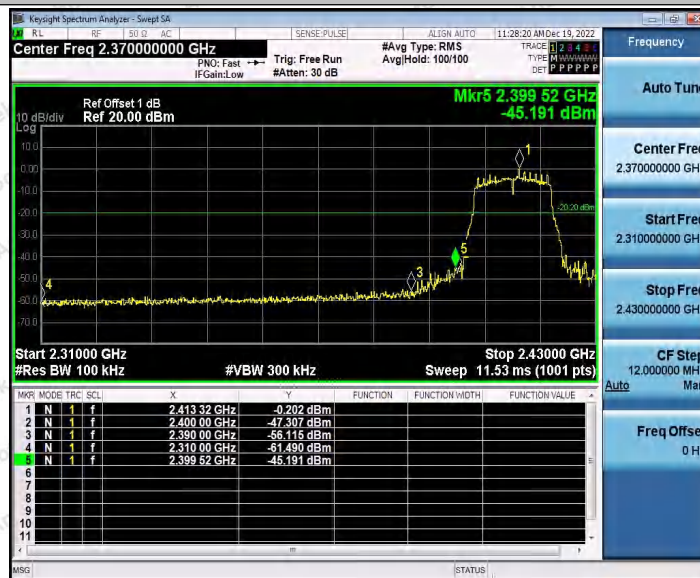


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11G_Ant2_Low_2412



11G_Ant1_High_2462

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11G_Ant2_High_2462

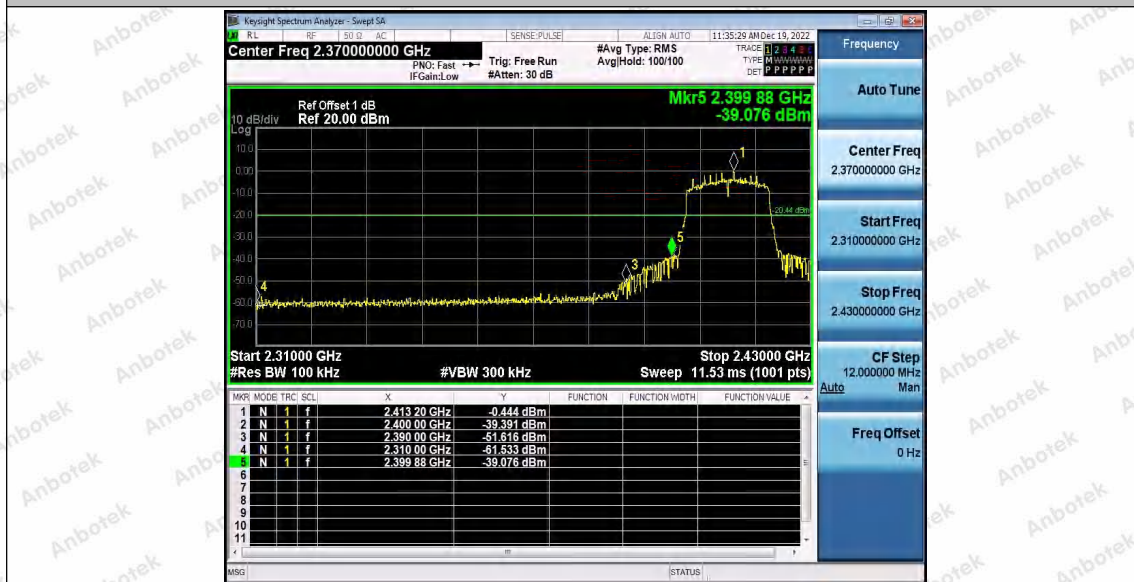


11N20_Ant1_Low_2412



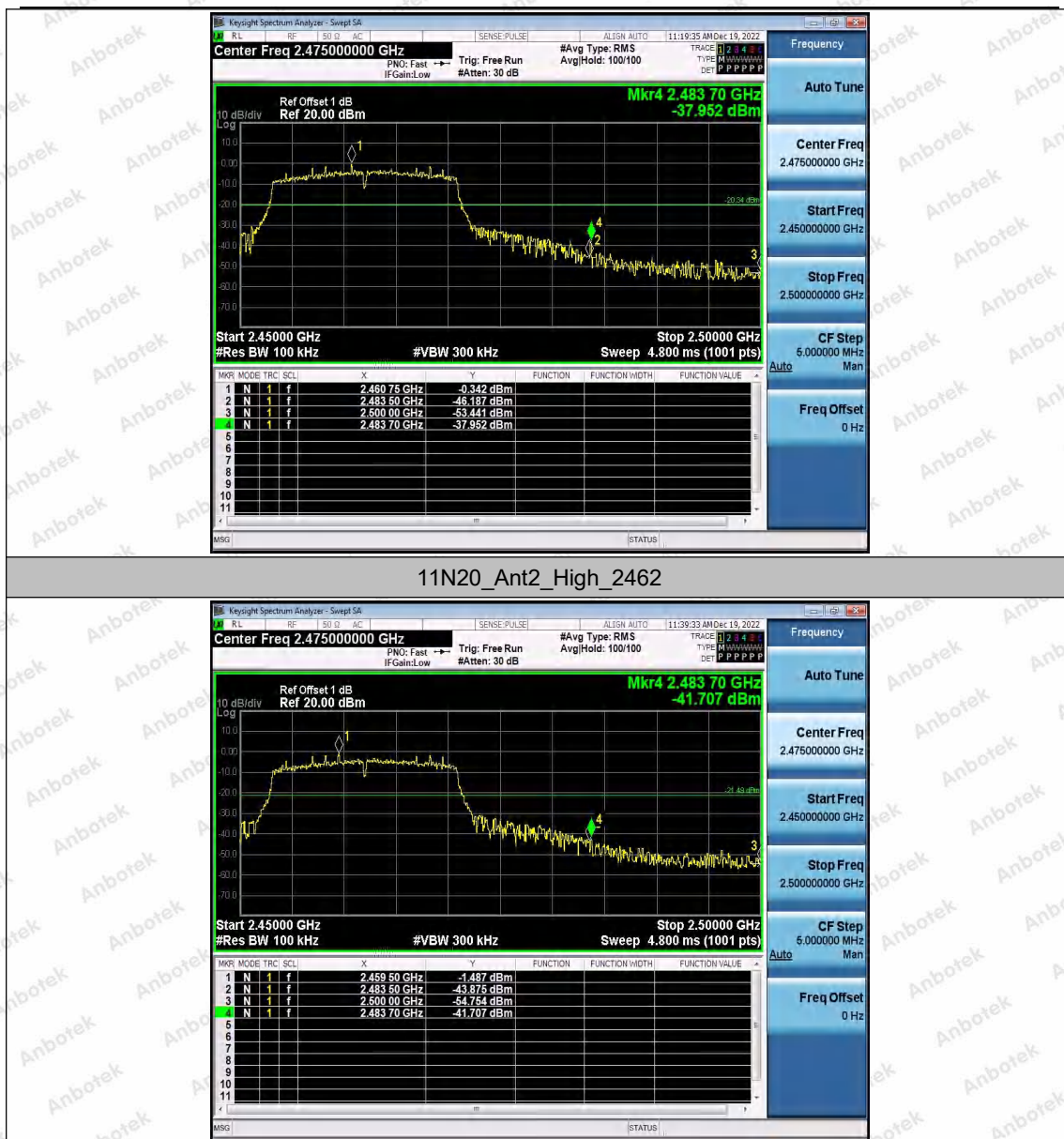


11N20_Ant2_Low_2412



11N20_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	5.13	5.13	---	PASS
			30~1000	5.13	-68.48	≤-14.87	PASS
			1000~26500	5.13	-42.26	≤-14.87	PASS
	Ant2	2412	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-67.83	≤-14.68	PASS
			1000~26500	5.32	-44.96	≤-14.68	PASS
	Ant1	2437	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-68.67	≤-14.92	PASS
			1000~26500	5.08	-34.39	≤-14.92	PASS
	Ant2	2437	Reference	6.23	6.23	---	PASS
			30~1000	6.23	-69.21	≤-13.77	PASS
			1000~26500	6.23	-46.89	≤-13.77	PASS
	Ant1	2462	Reference	4.47	4.47	---	PASS
			30~1000	4.47	-68.38	≤-15.53	PASS
			1000~26500	4.47	-37.52	≤-15.53	PASS
	Ant2	2462	Reference	6.70	6.70	---	PASS
			30~1000	6.70	-67.71	≤-13.3	PASS
			1000~26500	6.70	-47.46	≤-13.3	PASS
11G	Ant1	2412	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-68.6	≤-20.8	PASS
			1000~26500	-0.80	-40	≤-20.8	PASS
	Ant2	2412	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-68.73	≤-22.84	PASS
			1000~26500	-2.84	-53.5	≤-22.84	PASS
	Ant1	2437	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-68.19	≤-22.03	PASS
			1000~26500	-2.03	-41.38	≤-22.03	PASS
	Ant2	2437	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-69.47	≤-23.19	PASS
			1000~26500	-3.19	-53.34	≤-23.19	PASS
	Ant1	2462	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-68.41	≤-24.13	PASS
			1000~26500	-4.13	-38.89	≤-24.13	PASS
	Ant2	2462	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-69.29	≤-22.33	PASS
			1000~26500	-2.33	-53.16	≤-22.33	PASS

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11N20	Ant1	2412	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-67.95	≤ -22.69	PASS
			1000~26500	-2.69	-42.93	≤ -22.69	PASS
	Ant2	2412	Reference	-3.64	-3.64	---	PASS
			30~1000	-3.64	-67.96	≤ -23.64	PASS
			1000~26500	-3.64	-51.62	≤ -23.64	PASS
	Ant1	2437	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-69.01	≤ -24.3	PASS
			1000~26500	-4.30	-37.28	≤ -24.3	PASS
	Ant2	2437	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-68.45	≤ -23.09	PASS
			1000~26500	-3.09	-52.84	≤ -23.09	PASS
	Ant1	2462	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-69.17	≤ -20.41	PASS
			1000~26500	-0.41	-42.81	≤ -20.41	PASS
	Ant2	2462	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-68.94	≤ -23.4	PASS
			1000~26500	-3.40	-47.74	≤ -23.4	PASS

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