

Appendix Test Data

Report No.:	18220WC20219201	Test Sample No.:	1-2-2
Start Test Date:	2022.8.16	Finish Test Date:	2022.8.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°C	Relative Humidity:	47 %
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	10.080	2406.930	2417.010	≥0.5	PASS
		2437	10.050	2431.930	2441.980	≥0.5	PASS
		2462	10.050	2456.930	2466.980	≥0.5	PASS
11g	Ant1	2412	16.380	2403.780	2420.160	≥0.5	PASS
		2437	16.380	2428.750	2445.130	≥0.5	PASS
		2462	16.350	2453.780	2470.130	≥0.5	PASS
11n20	Ant1	2412	17.070	2403.420	2420.490	≥0.5	PASS
		2437	17.310	2428.210	2445.520	≥0.5	PASS
		2462	17.280	2453.210	2470.490	≥0.5	PASS
11n40	Ant1	2422	35.640	2404.120	2439.760	≥0.5	PASS
		2437	35.580	2419.180	2454.760	≥0.5	PASS
		2452	35.460	2434.060	2469.520	≥0.5	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

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11g_Ant1_2412



11g_Ant1_2437



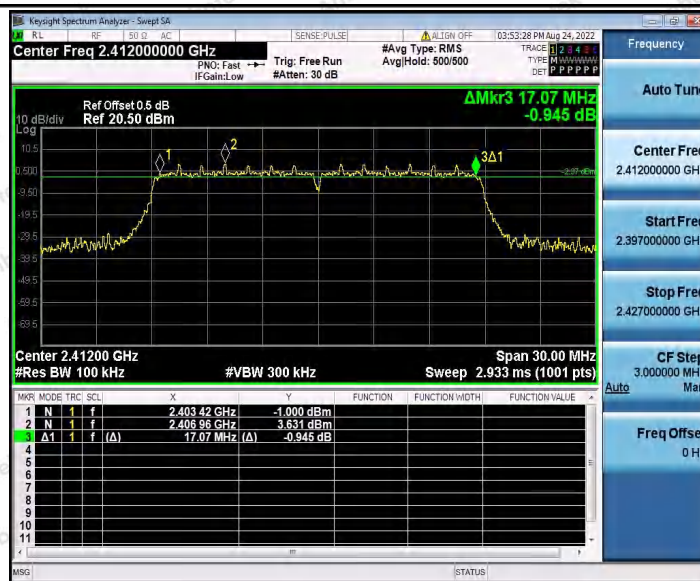


11g_Ant1_2462



11n20_Ant1_2412





11n20_Ant1_2437



11n20_Ant1_2462



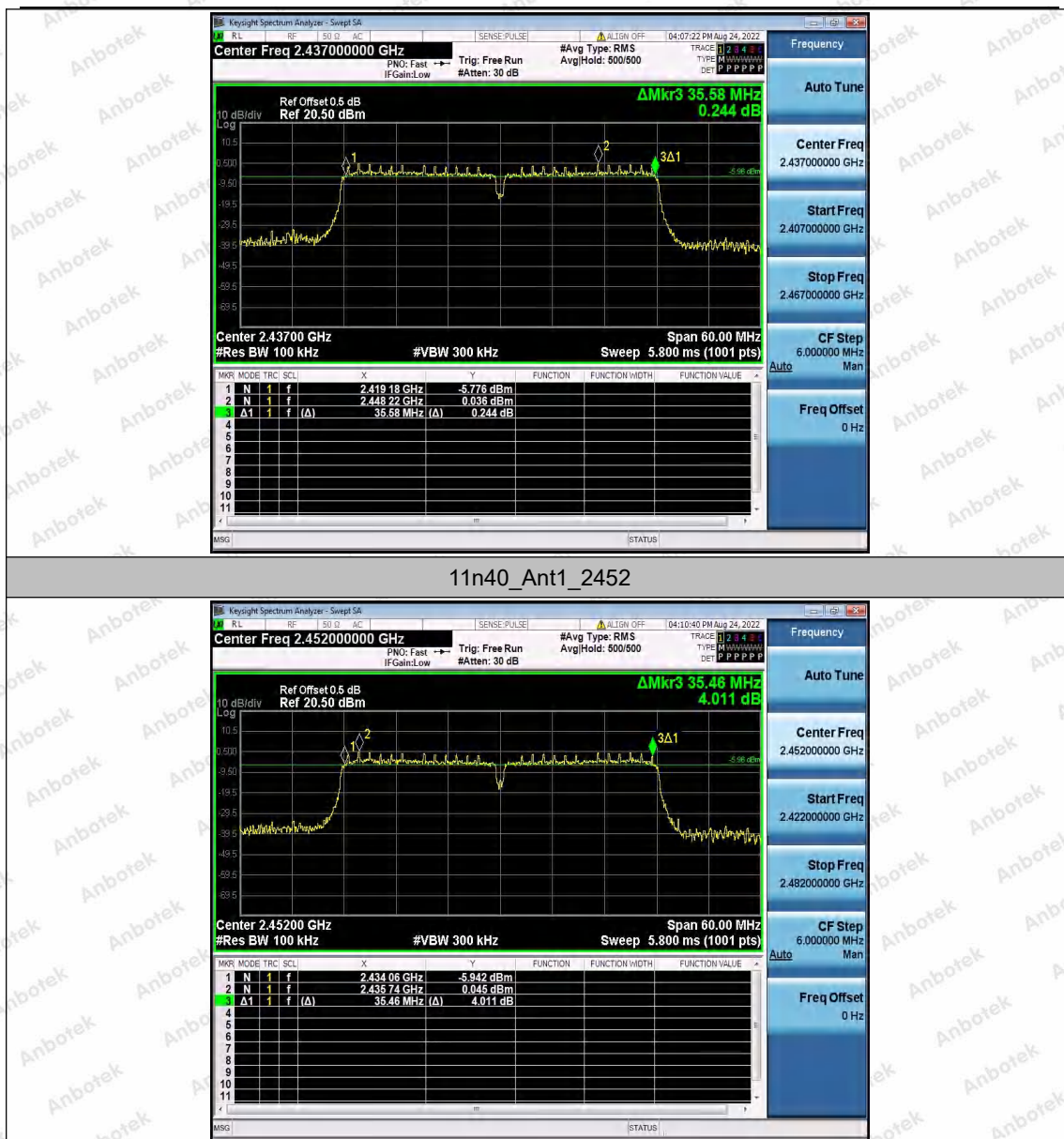


11n40_Ant1_2422



11n40_Ant1_2437





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	13.069	2405.4389	2418.5079	---	PASS
		2437	13.078	2430.4389	2443.5169	---	PASS
		2462	13.081	2455.4271	2468.5081	---	PASS
11g	Ant1	2412	16.743	2403.6278	2420.3708	---	PASS
		2437	16.745	2428.6003	2445.3453	---	PASS
		2462	16.741	2453.5926	2470.3336	---	PASS
11n20	Ant1	2412	17.615	2403.1802	2420.7952	---	PASS
		2437	17.599	2428.1877	2445.7867	---	PASS
		2462	17.596	2453.1792	2470.7752	---	PASS
11n40	Ant1	2422	36.115	2403.9709	2440.0859	---	PASS
		2437	36.138	2418.9279	2455.0659	---	PASS
		2452	36.057	2433.9813	2470.0383	---	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

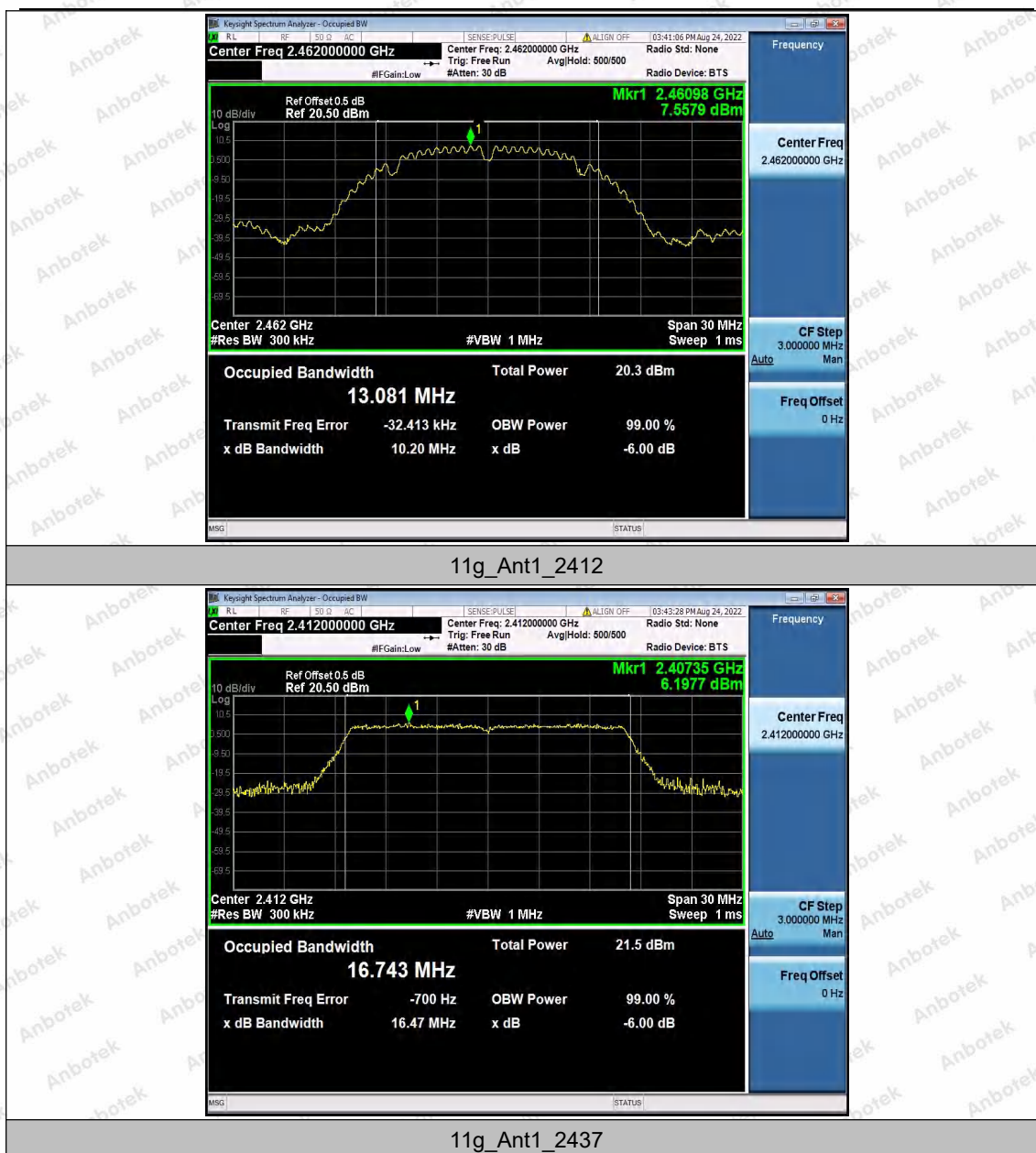
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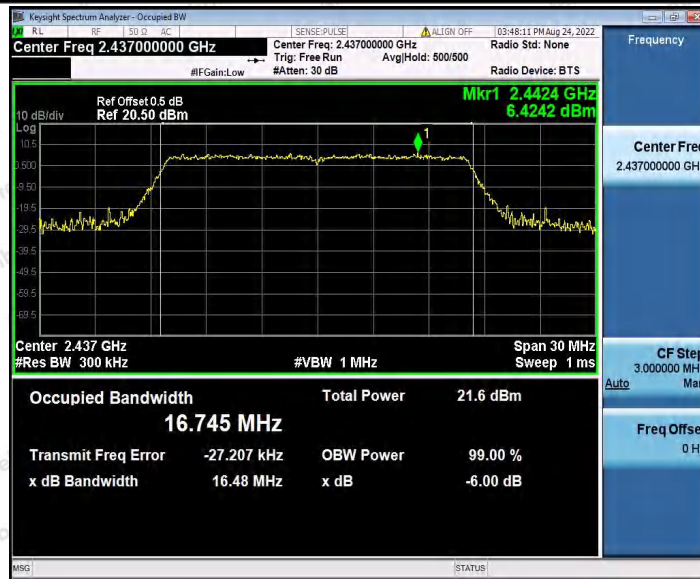
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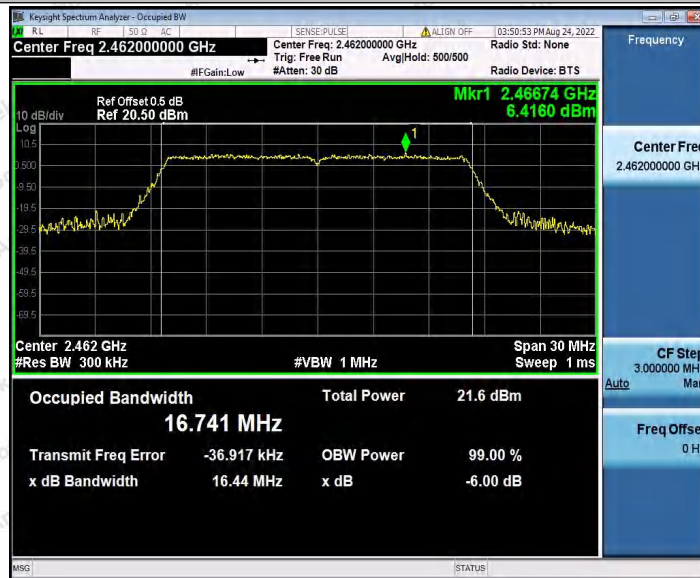


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11g_Ant1_2462



11n20_Ant1_2412





11n20_Ant1_2437



11n20_Ant1_2462

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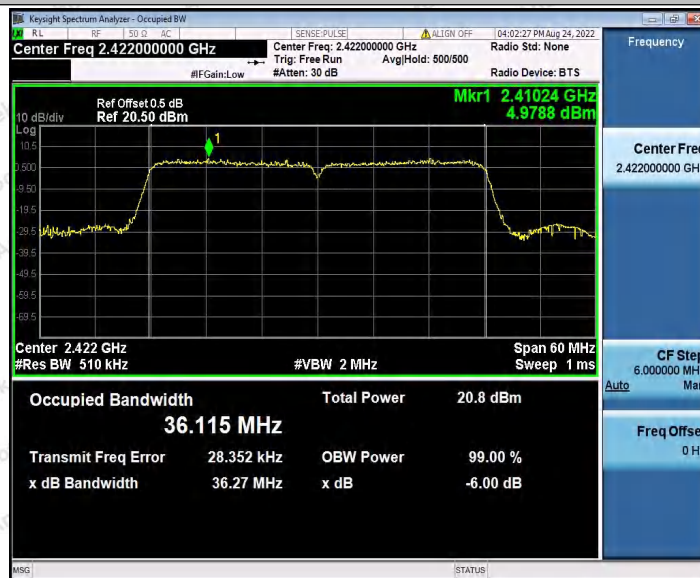


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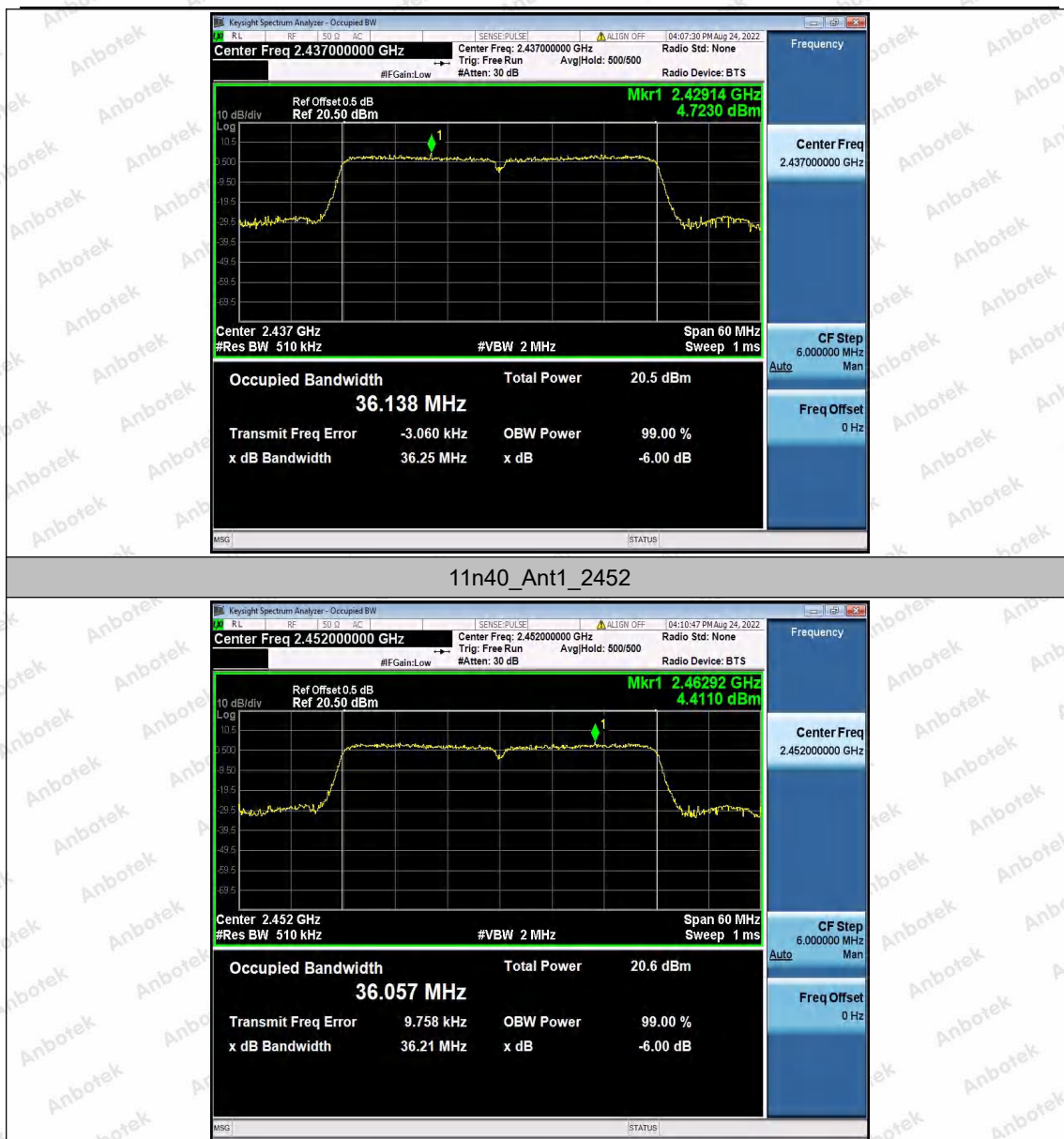


11n40_Ant1_2422



11n40_Ant1_2437



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Limit[dBm]	Verdict
11b	Ant1	2412	19.43	≤30	PASS
		2437	19.15	≤30	PASS
		2462	19.33	≤30	PASS
11g	Ant1	2412	22.54	≤30	PASS
		2437	22.52	≤30	PASS
		2462	22.45	≤30	PASS
11n20	Ant1	2412	22.35	≤30	PASS
		2437	22.50	≤30	PASS
		2462	22.42	≤30	PASS
11n40	Ant1	2422	21.60	≤30	PASS
		2437	21.44	≤30	PASS
		2452	21.41	≤30	PASS



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-3.75	≤8	PASS
		2437	-4.18	≤8	PASS
		2462	-4.00	≤8	PASS
11g	Ant1	2412	-10.28	≤8	PASS
		2437	-9.50	≤8	PASS
		2462	-10.25	≤8	PASS
11n20	Ant1	2412	-9.70	≤8	PASS
		2437	-10.00	≤8	PASS
		2462	-10.25	≤8	PASS
11n40	Ant1	2422	-13.22	≤8	PASS
		2437	-12.84	≤8	PASS
		2452	-13.39	≤8	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

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11g_Ant1_2412



11g_Ant1_2437

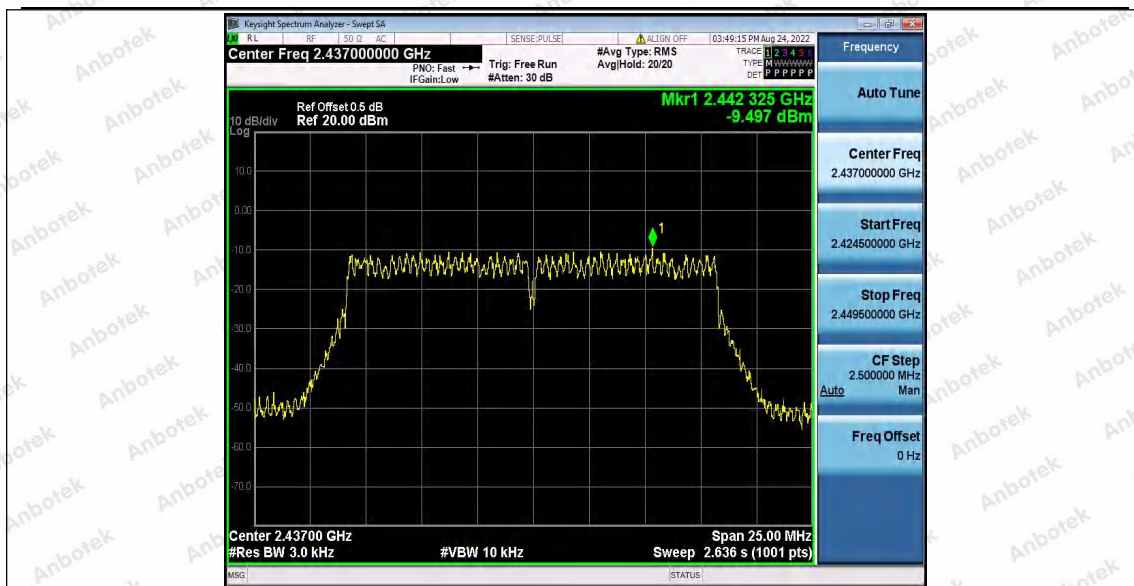
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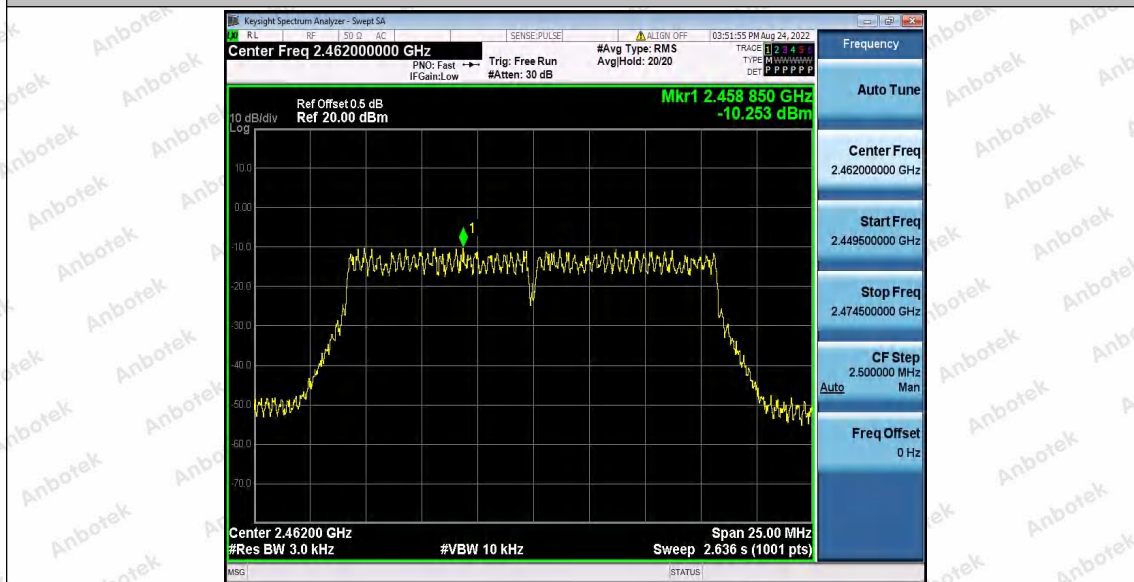


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11g_Ant1_2462



11n20_Ant1_2412

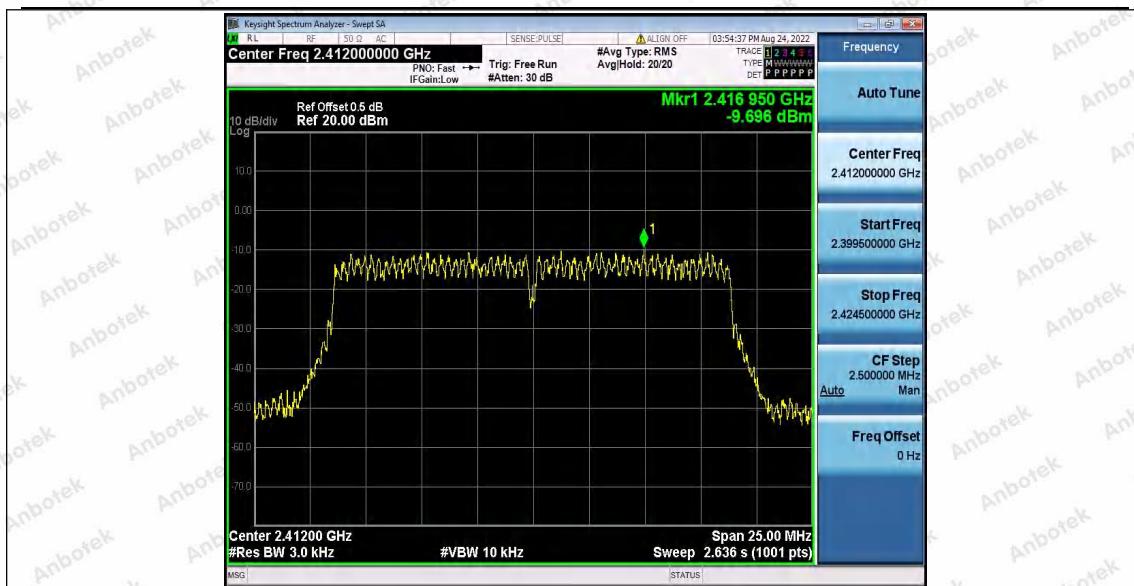
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11n20_Ant1_2437



11n20_Ant1_2462

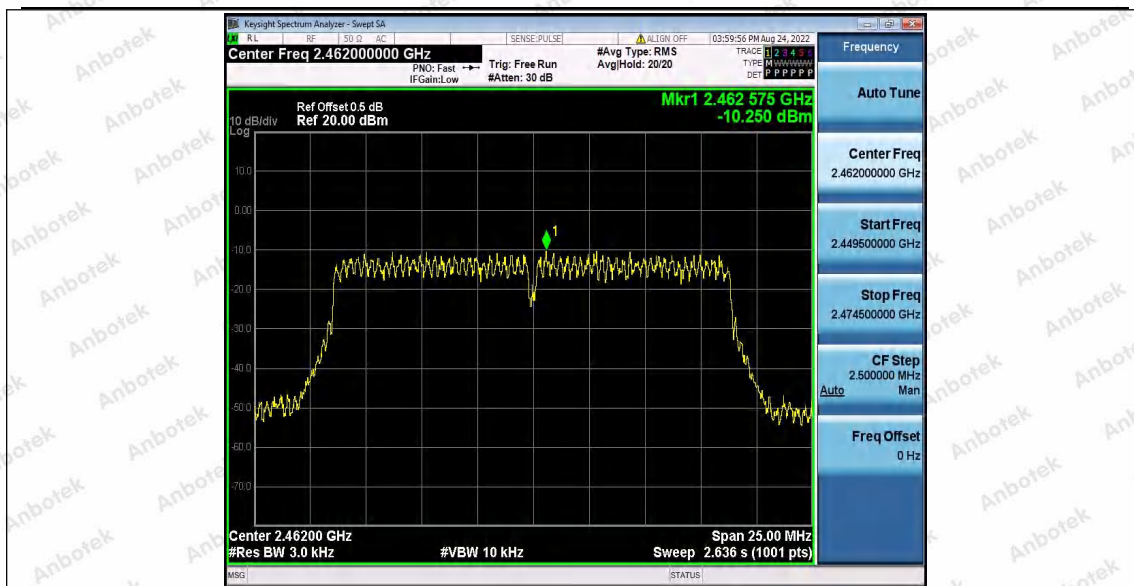
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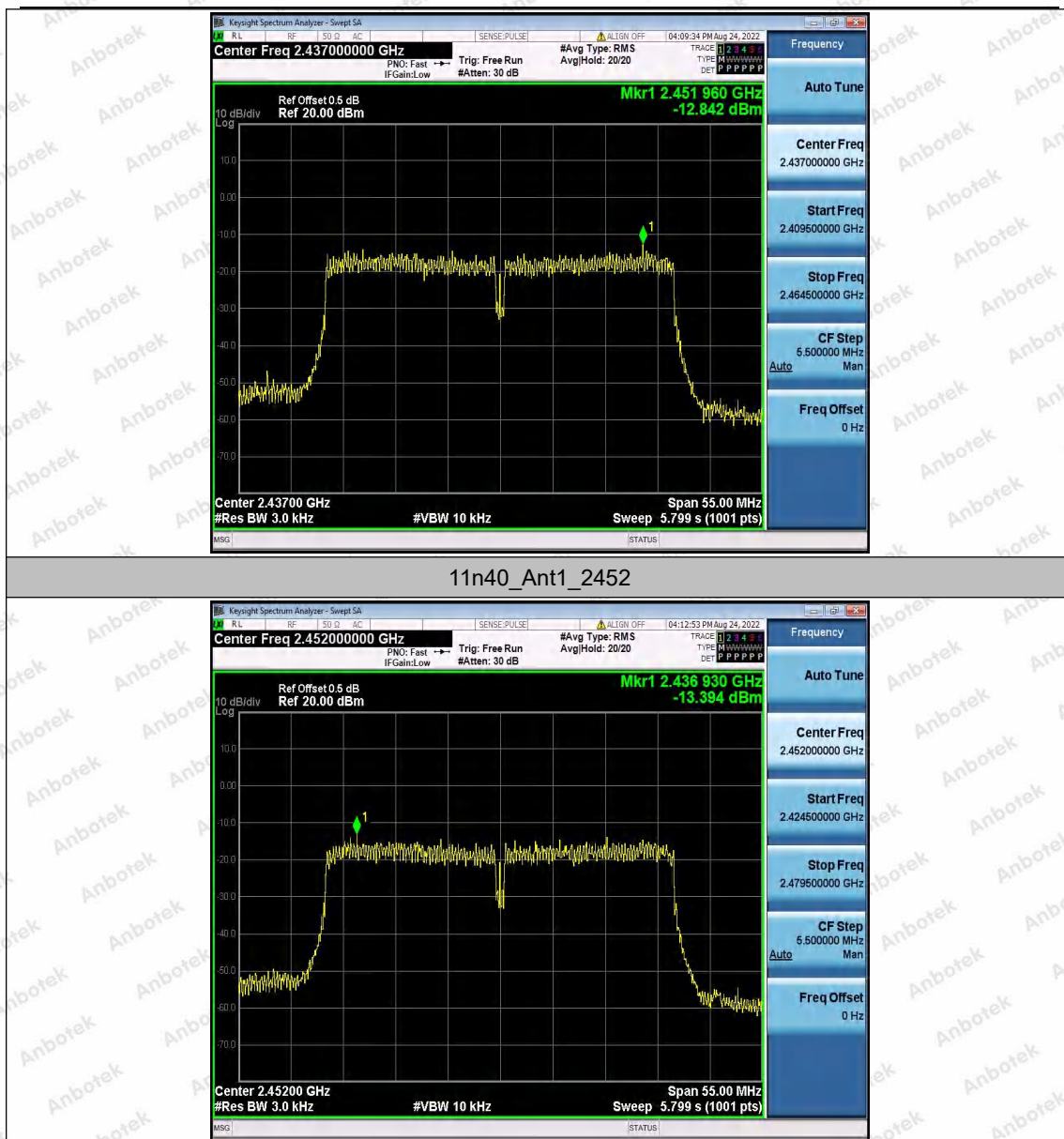


11n40_Ant1_2422



11n40_Ant1_2437





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Appendix E: Band edge measurements

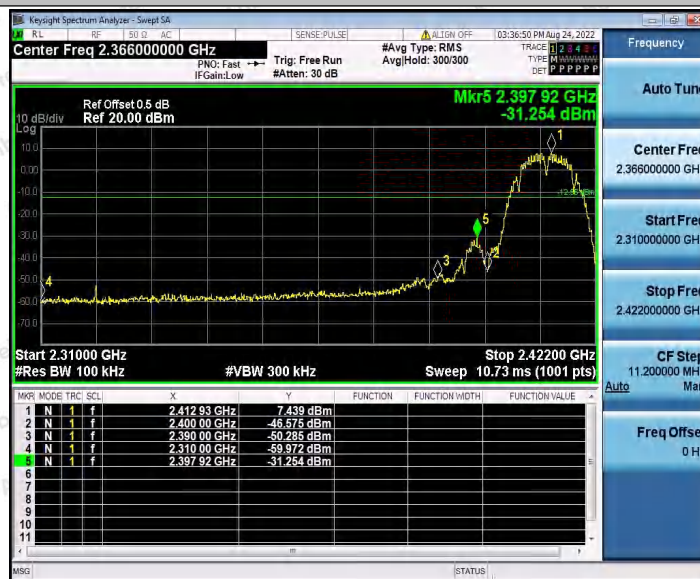
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant1	Low	2412	7.44	-31.25	≤-12.56	PASS
		High	2462	7.36	-47.62	≤-12.64	PASS
11g	Ant1	Low	2412	3.71	-29.61	≤-16.29	PASS
		High	2462	3.39	-40.11	≤-16.61	PASS
11n20	Ant1	Low	2412	3.55	-29.21	≤-16.45	PASS
		High	2462	3.72	-37.87	≤-16.28	PASS
11n40	Ant1	Low	2422	0.01	-33.35	≤-19.99	PASS
		High	2452	0.00	-40.12	≤-20.00	PASS



Test Graphs

11b_Ant1_Low_2412



11b_Ant1_High_2462



11g_Ant1_Low_2412

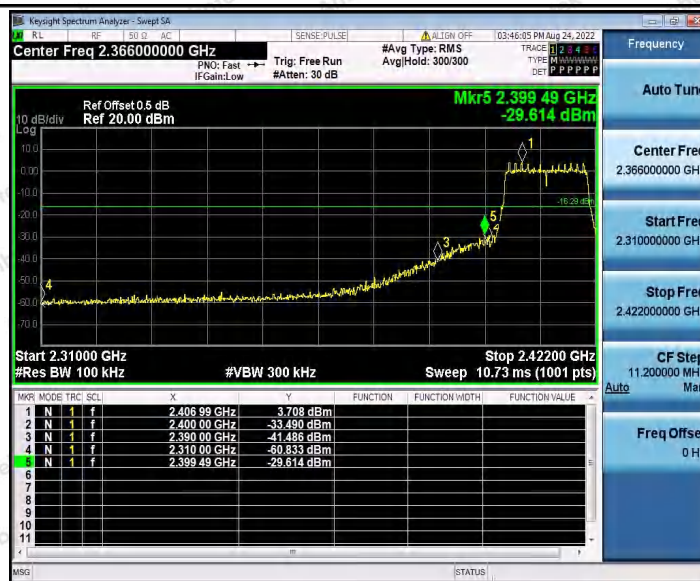
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11g_Ant1_High_2462



11n20_Ant1_Low_2412





11n20_Ant1_High_2462



11n40_Ant1_Low_2422

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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	2412	Reference	5.15	5.15	---	PASS
			30~1000	5.15	-61.97	≤-14.85	PASS
			1000~26500	5.15	-41.09	≤-14.85	PASS
		2437	Reference	7.26	7.26	---	PASS
			30~1000	7.26	-60.77	≤-12.74	PASS
			1000~26500	7.26	-41.56	≤-12.74	PASS
		2462	Reference	7.24	7.24	---	PASS
			30~1000	7.24	-61.22	≤-12.76	PASS
			1000~26500	7.24	-40.57	≤-12.76	PASS
11g	Ant1	2412	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-62.91	≤-17.8	PASS
			1000~26500	2.20	-50.14	≤-17.8	PASS
		2437	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-63.06	≤-16.47	PASS
			1000~26500	3.53	-48.96	≤-16.47	PASS
		2462	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-61.99	≤-17.34	PASS
			1000~26500	2.66	-47.86	≤-17.34	PASS
11n20	Ant1	2412	Reference	2.87	2.87	---	PASS
			30~1000	2.87	-62.51	≤-17.13	PASS
			1000~26500	2.87	-50.1	≤-17.13	PASS
		2437	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-61.71	≤-16.53	PASS
			1000~26500	3.47	-49.13	≤-16.53	PASS
		2462	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-62.48	≤-17.37	PASS
			1000~26500	2.63	-47.87	≤-17.37	PASS
11n40	Ant1	2422	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-53.44	≤-20.53	PASS
			1000~26500	-0.53	-49.43	≤-20.53	PASS
		2437	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-61.66	≤-20.01	PASS
			1000~26500	-0.01	-49.04	≤-20.01	PASS
		2452	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-62.25	≤-20.69	PASS
			1000~26500	-0.69	-48.29	≤-20.69	PASS

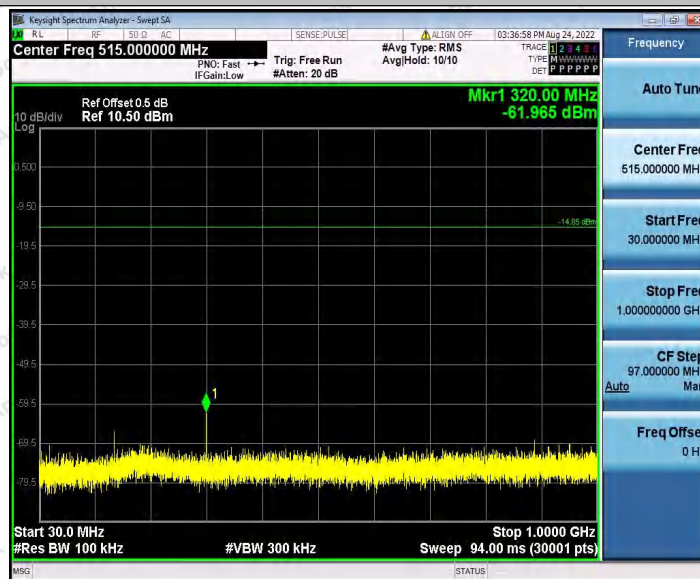


Test Graphs

11b_Ant1_2412_0~Reference



11b_Ant1_2412_30~1000



11b_Ant1_2412_1000~26500

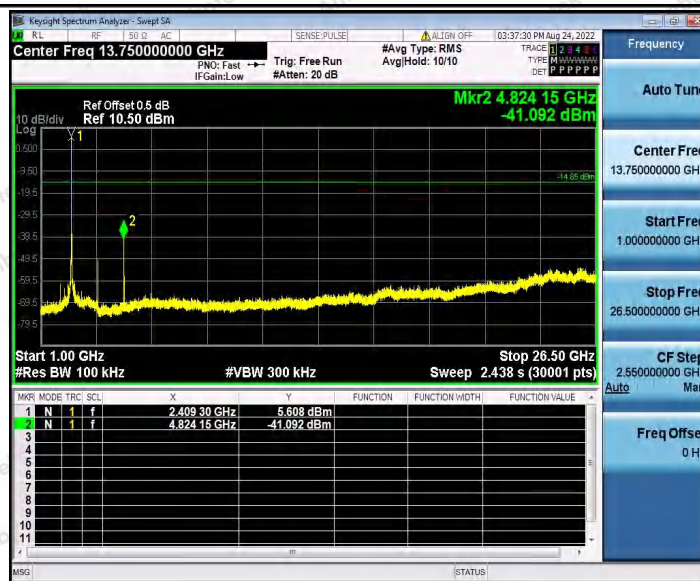
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11b_Ant1_2437_0~Reference



11b_Ant1_2437_30~1000

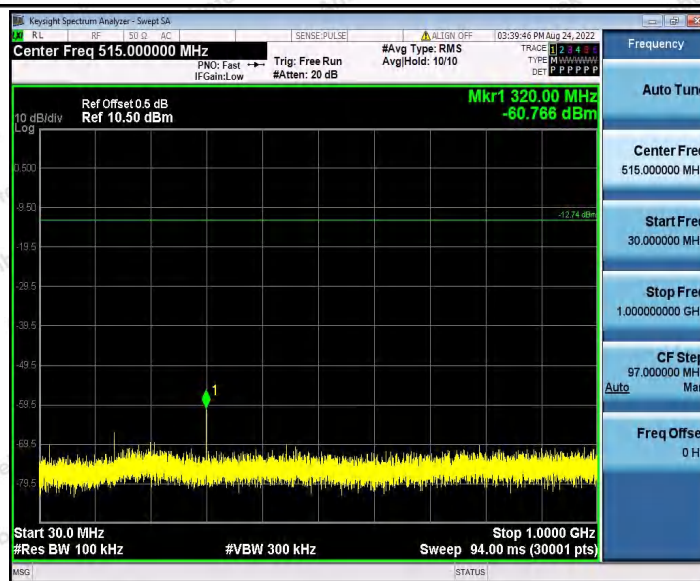
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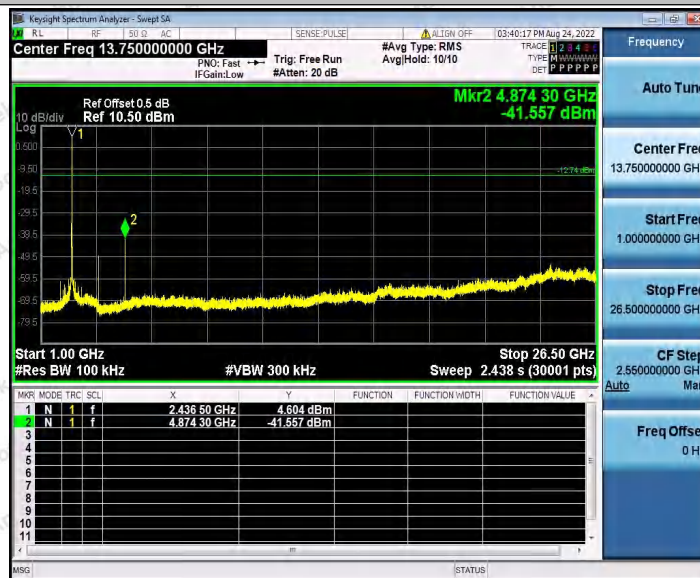


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11b_Ant1_2437_1000~26500



11b_Ant1_2462_0~Reference

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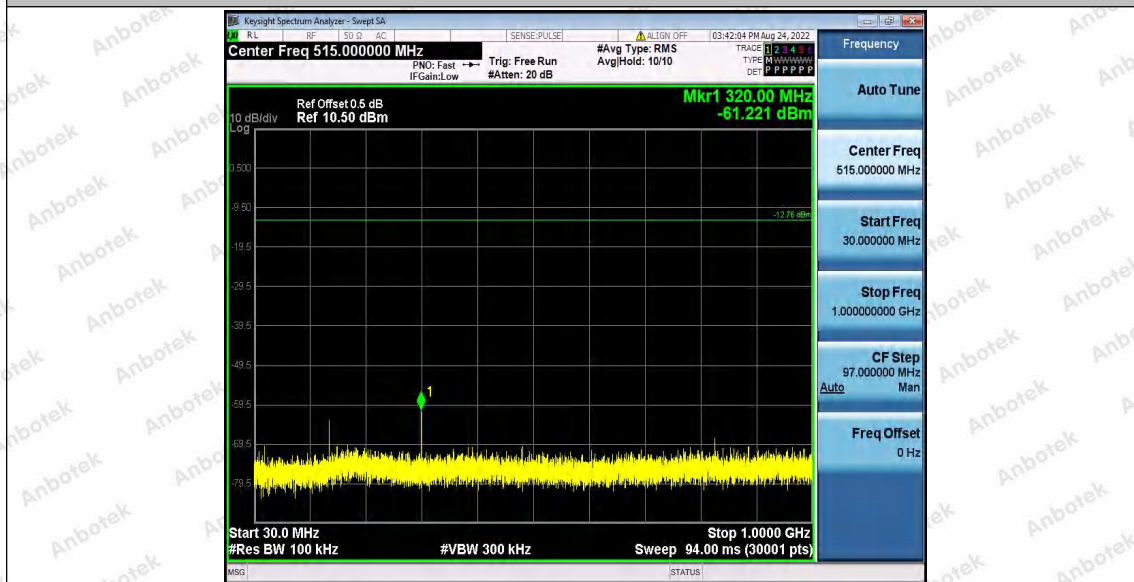


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11b_Ant1_2462_30~1000



11b_Ant1_2462_1000~26500

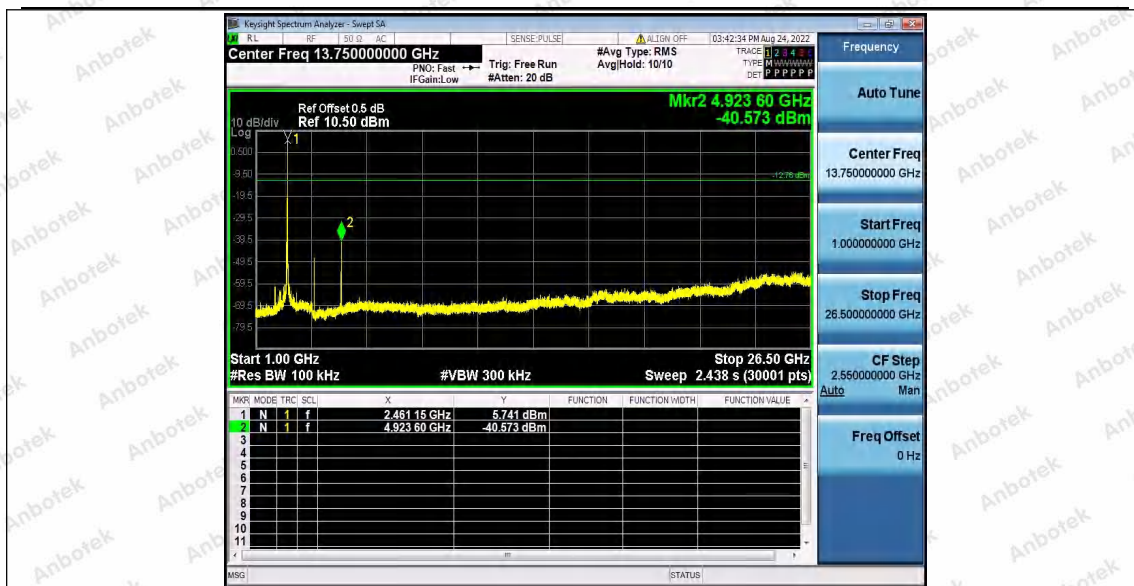
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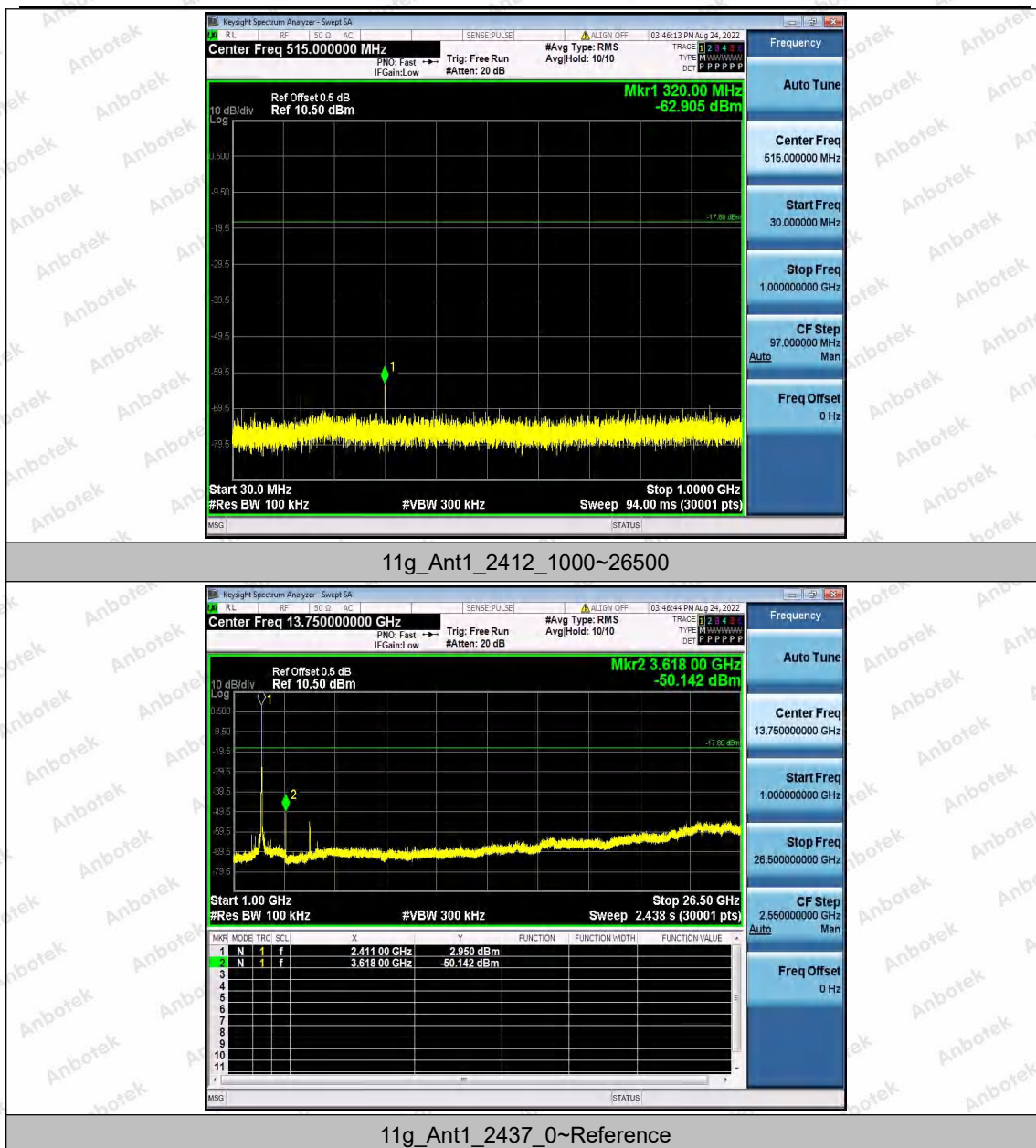


11g_Ant1_2412_0~Reference



11g_Ant1_2412_30~1000





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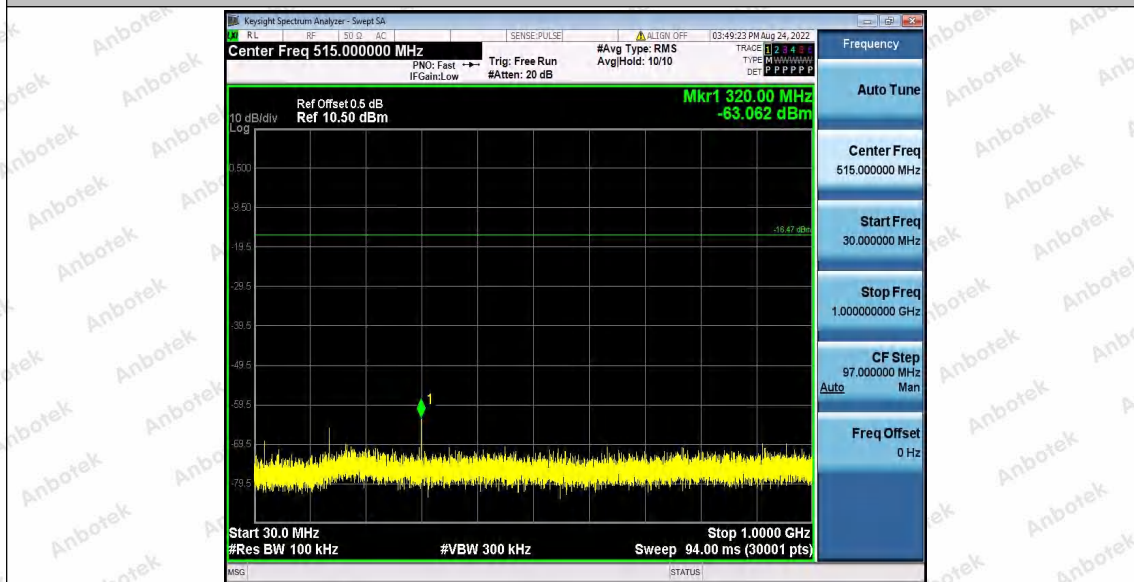


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11g_Ant1_2437_30~1000



11g_Ant1_2437_1000~26500

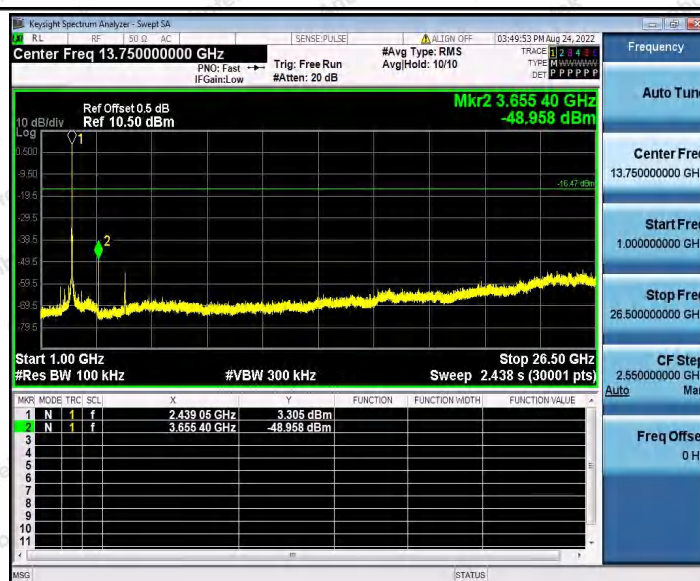
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11g Ant1 2462 0~Reference



11g	Ant1	2462	30~1000
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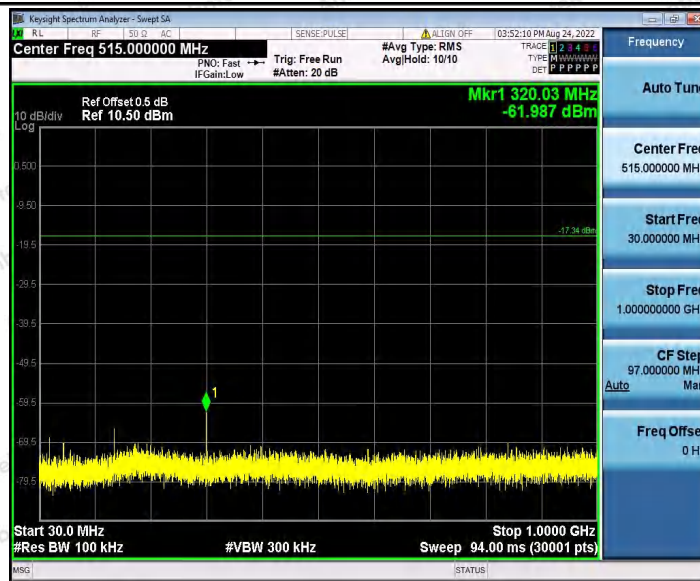
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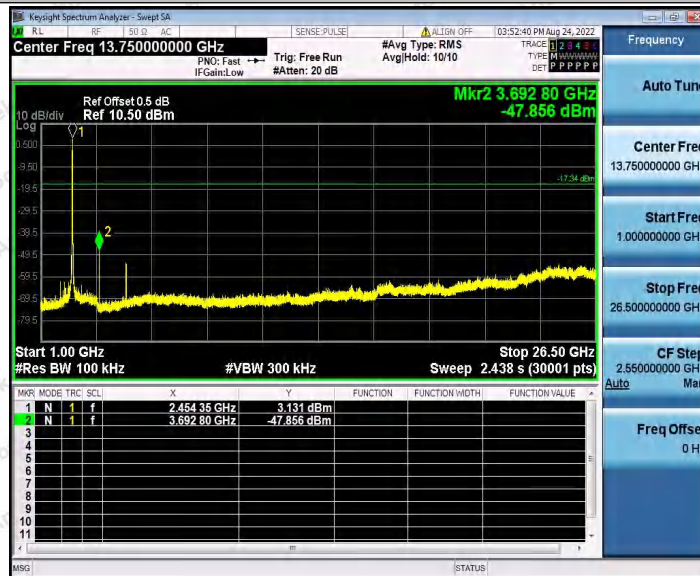


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11g_Ant1_2462_1000~26500



11n20_Ant1_2412_0~Reference

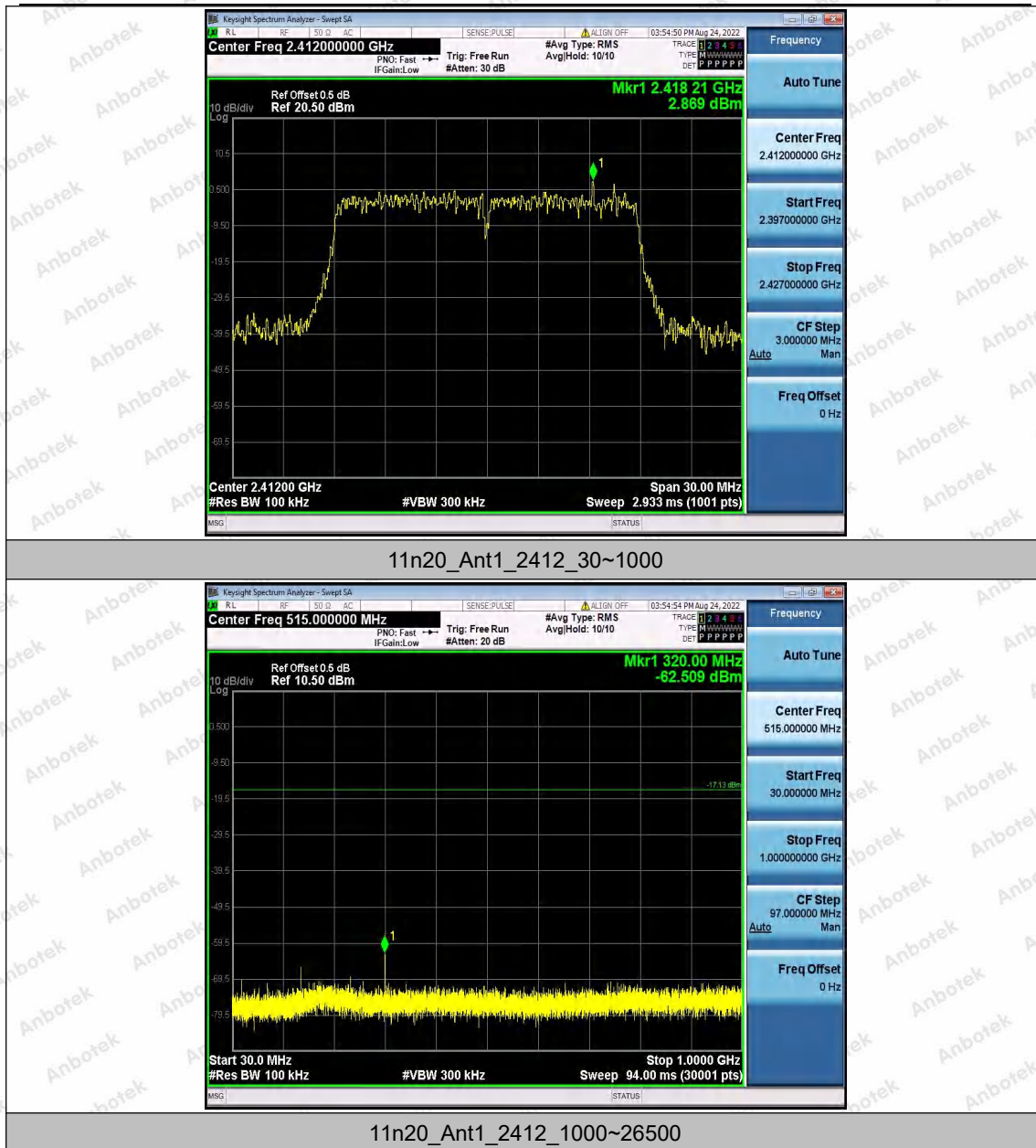
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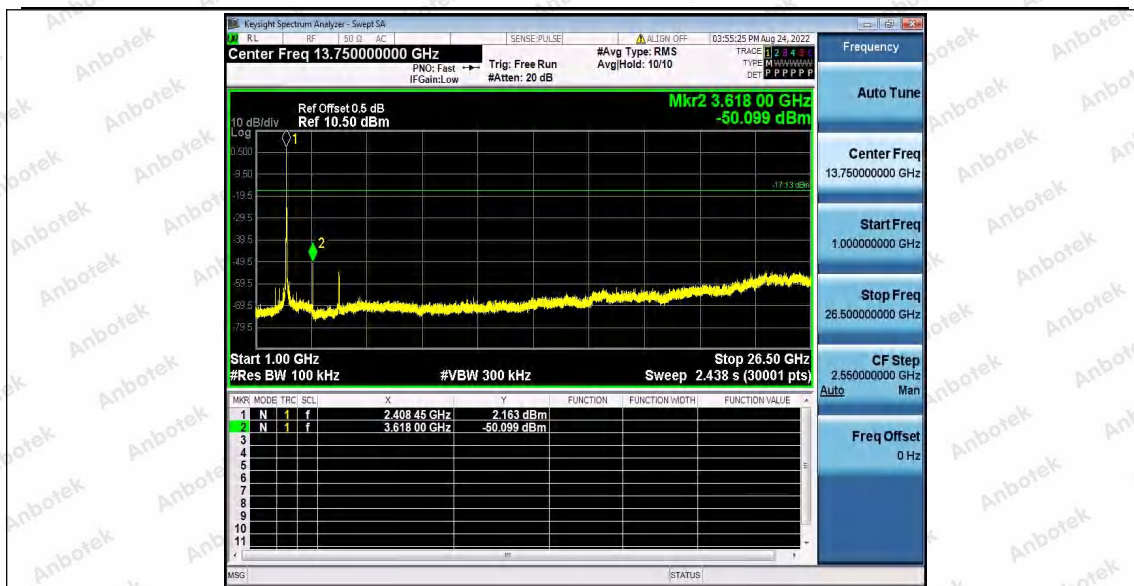
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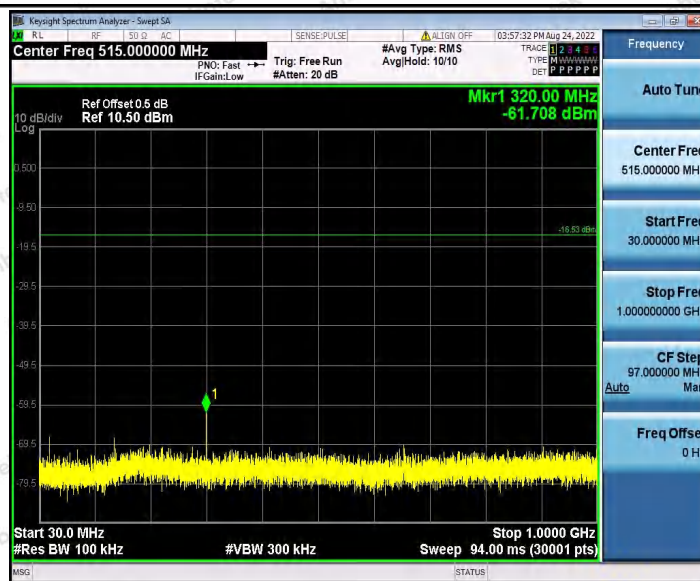


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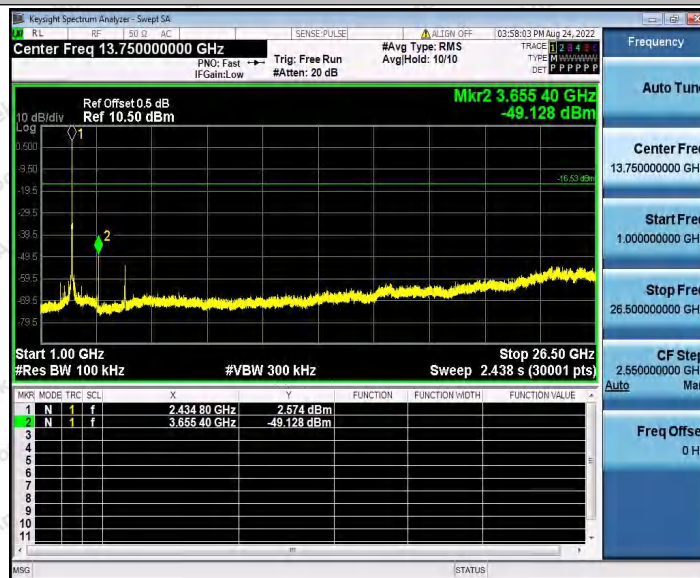


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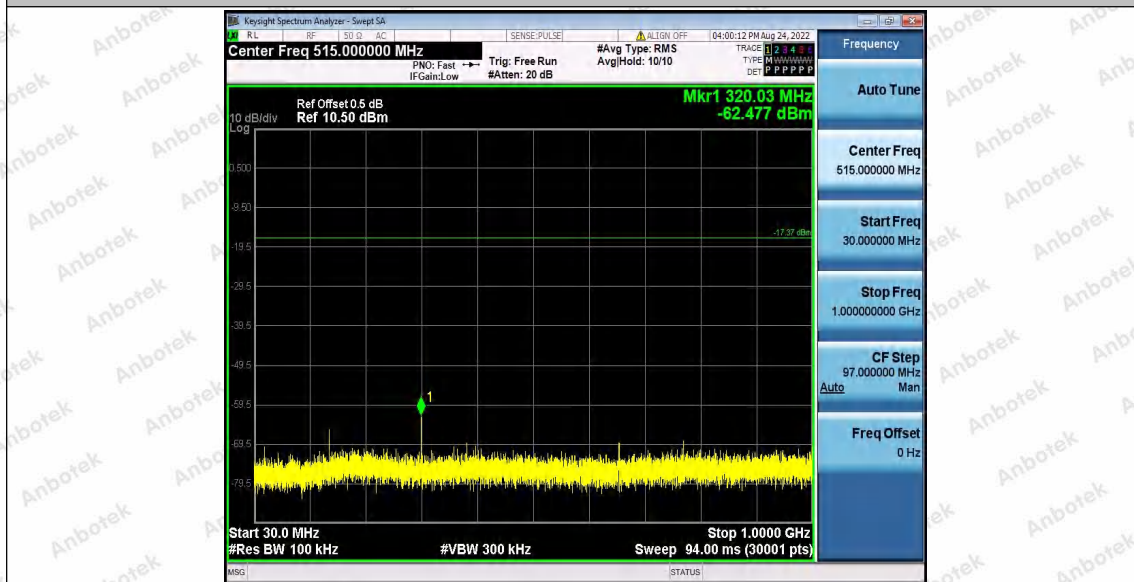


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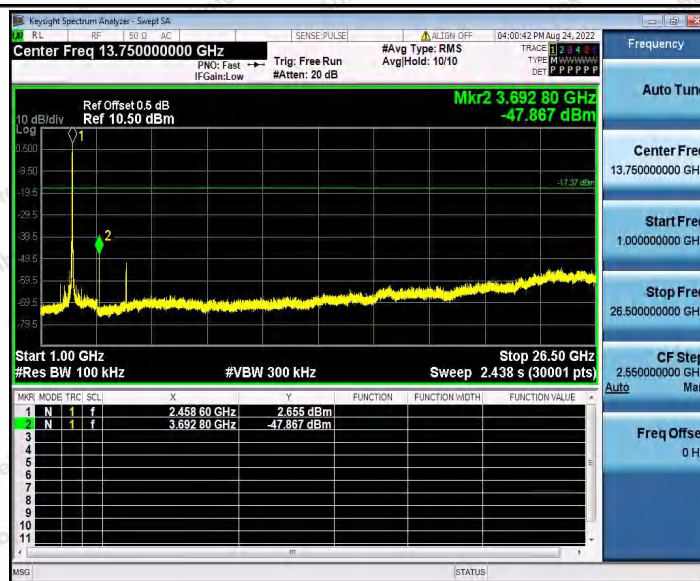
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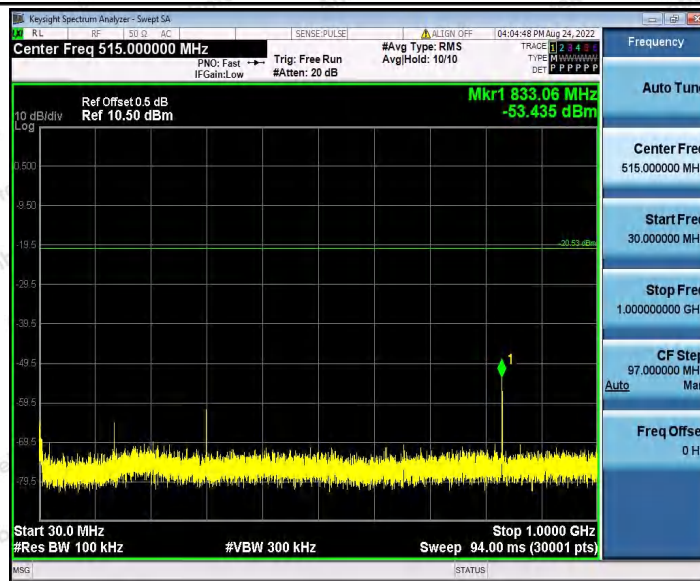


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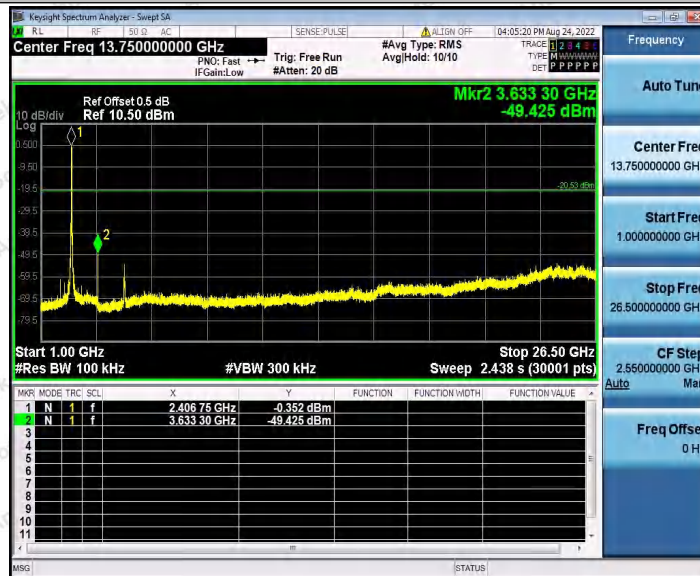


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11n40_Ant1_2437_0~Reference

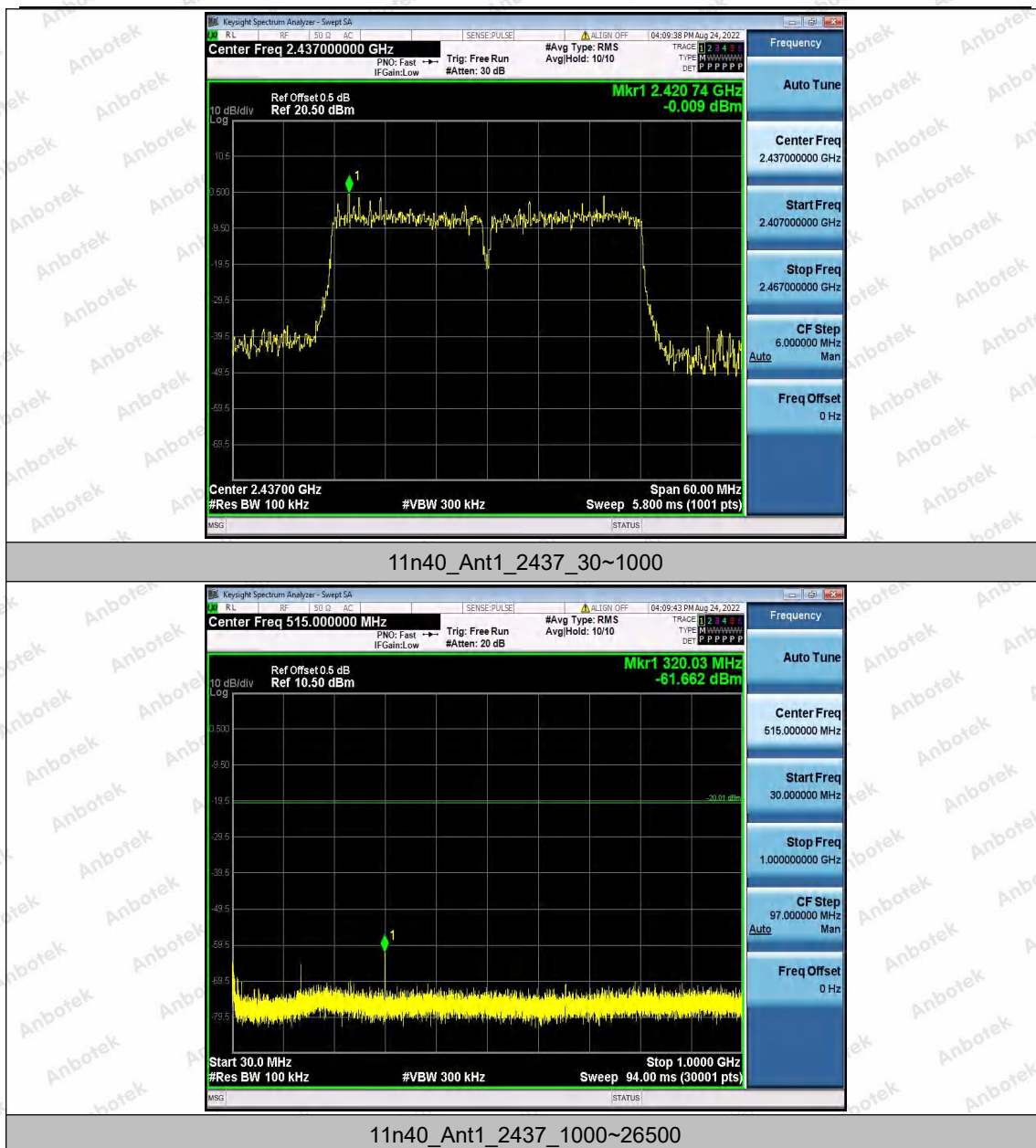
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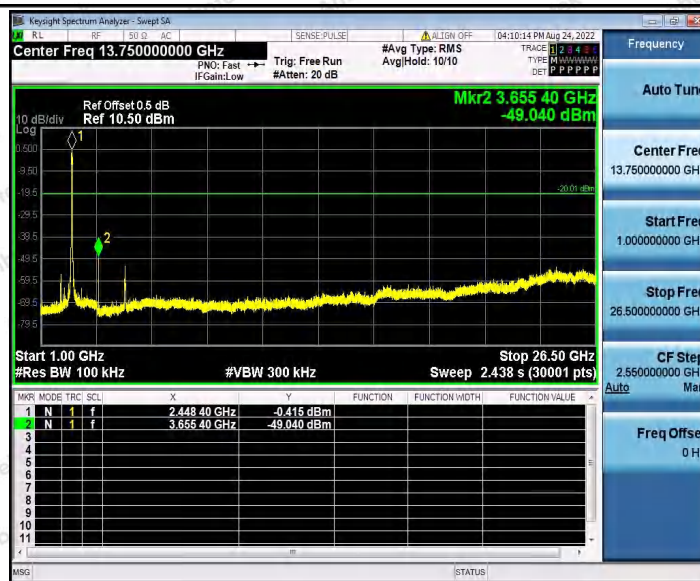
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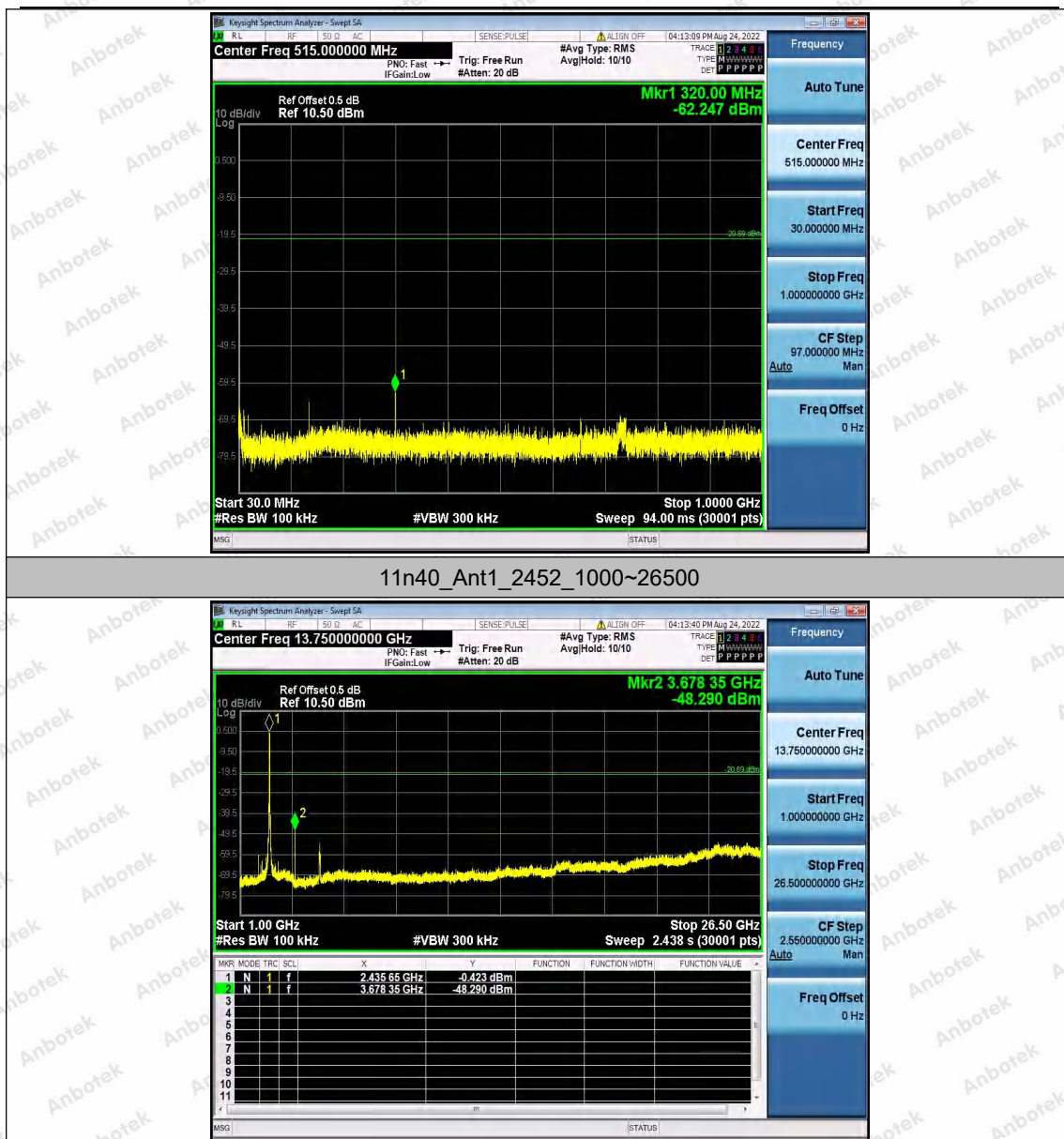


11n40_Ant1_2452_0~Reference



11n40_Ant1_2452_30~1000



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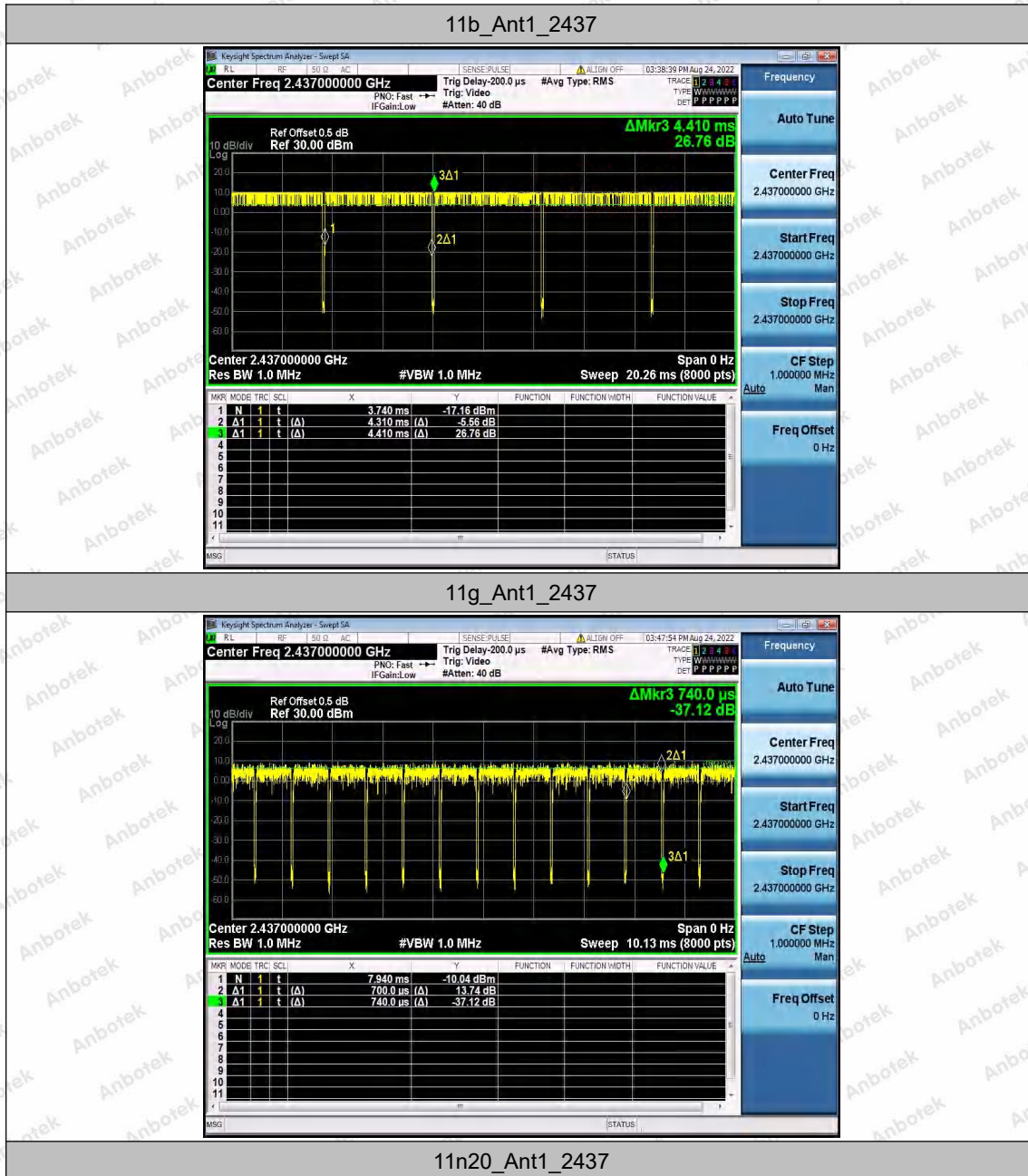
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant1	2437	4.31	4.41	97.73	0.10
11g	Ant1	2437	0.70	0.74	94.59	0.24
11n20	Ant1	2437	0.67	0.71	94.37	0.25
11n40	Ant1	2437	0.65	0.68	95.59	0.20



Test Graphs



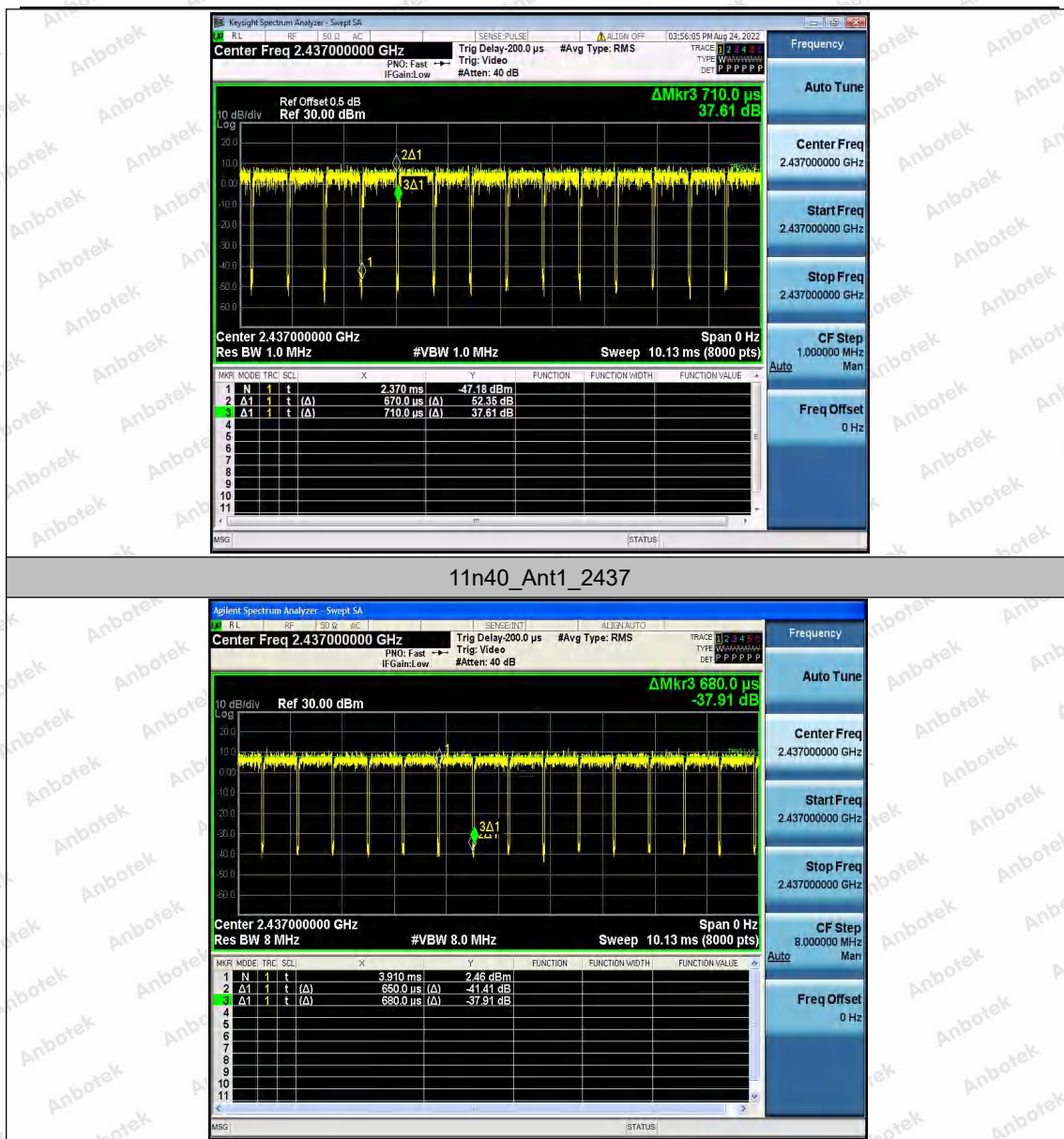
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---End---

