

Appendix Test Data

Report No.:	18220WC20016302	Test Sample No.:	1-2-2
Start Test Date:	2022.2.14	Finish Test Date:	2022.2.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.640	2407.440	2416.080	≥0.5	PASS
	Ant2	2412	8.440	2407.760	2416.200	≥0.5	PASS
	Ant1	2437	8.800	2432.440	2441.240	≥0.5	PASS
	Ant2	2437	8.760	2432.320	2441.080	≥0.5	PASS
	Ant1	2462	8.720	2457.800	2466.520	≥0.5	PASS
	Ant2	2462	8.560	2457.800	2466.360	≥0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥0.5	PASS
	Ant2	2412	16.480	2403.760	2420.240	≥0.5	PASS
	Ant1	2437	16.480	2428.760	2445.240	≥0.5	PASS
	Ant2	2437	16.440	2428.760	2445.200	≥0.5	PASS
	Ant1	2462	16.520	2453.760	2470.280	≥0.5	PASS
	Ant2	2462	16.480	2453.760	2470.240	≥0.5	PASS
11N20	Ant1	2412	17.720	2403.160	2420.880	≥0.5	PASS
	Ant2	2412	17.720	2403.160	2420.880	≥0.5	PASS
	Ant1	2437	17.760	2428.120	2445.880	≥0.5	PASS
	Ant2	2437	17.720	2428.120	2445.840	≥0.5	PASS
	Ant1	2462	17.720	2453.160	2470.880	≥0.5	PASS
	Ant2	2462	17.760	2453.160	2470.920	≥0.5	PASS
11N40	Ant1	2422	36.540	2403.760	2440.300	≥0.5	PASS
	Ant2	2422	36.420	2403.820	2440.240	≥0.5	PASS
	Ant1	2437	36.480	2418.760	2455.240	≥0.5	PASS
	Ant2	2437	36.480	2418.760	2455.240	≥0.5	PASS
	Ant1	2452	36.540	2433.760	2470.300	≥0.5	PASS
	Ant2	2452	36.600	2433.700	2470.300	≥0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412



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



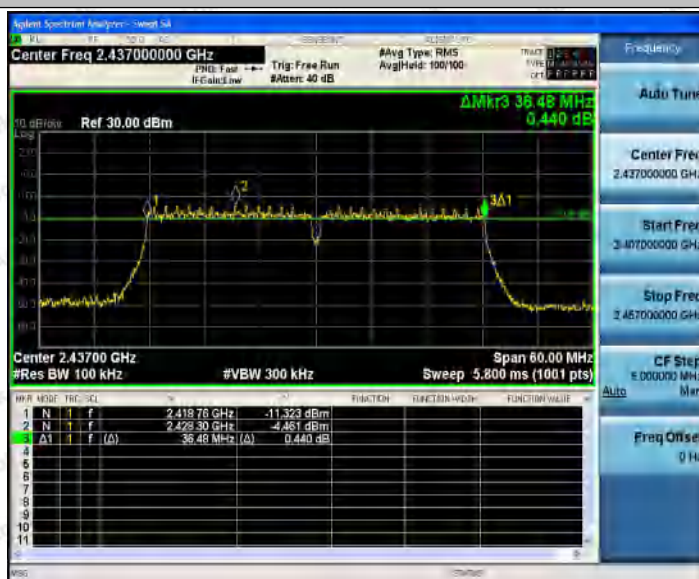
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11N40_Ant1_2437



11N40_Ant2_2437



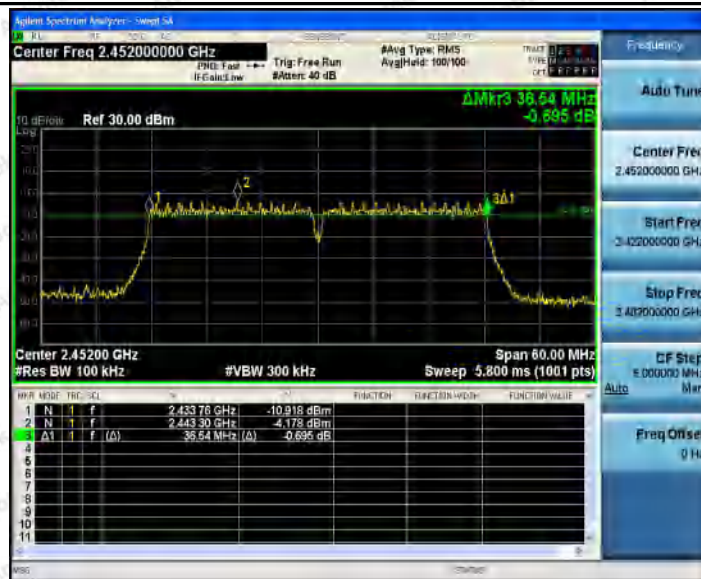
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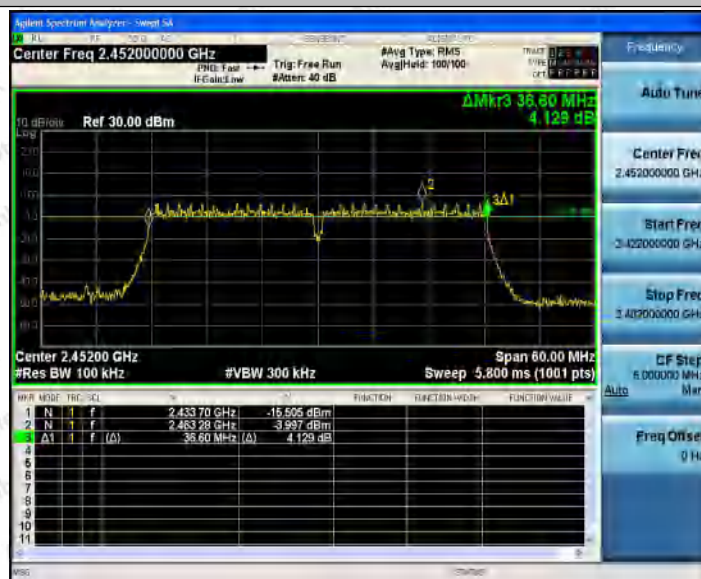
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11N40_Ant2_2452



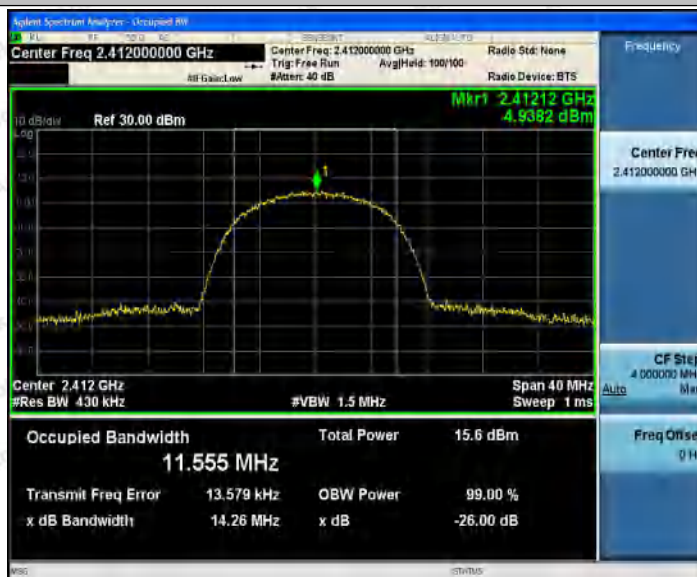
Appendix B: Occupied Channel Bandwidth

Test Result

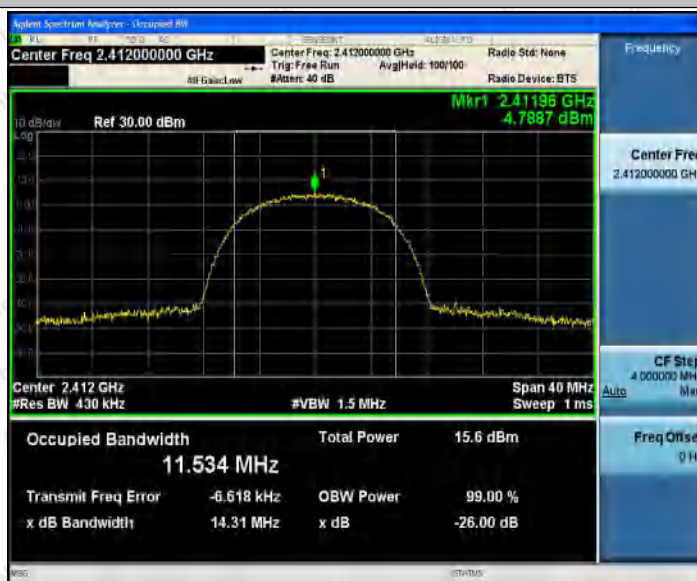
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.555	2406.236	2417.791	---	PASS
	Ant2	2412	11.534	2406.226	2417.760	---	PASS
	Ant1	2437	11.530	2431.226	2442.756	---	PASS
	Ant2	2437	11.514	2431.212	2442.726	---	PASS
	Ant1	2462	11.534	2456.303	2467.837	---	PASS
	Ant2	2462	11.546	2456.268	2467.814	---	PASS
11G	Ant1	2412	16.889	2403.604	2420.493	---	PASS
	Ant2	2412	16.869	2403.602	2420.471	---	PASS
	Ant1	2437	16.928	2428.585	2445.513	---	PASS
	Ant2	2437	16.923	2428.562	2445.485	---	PASS
	Ant1	2462	16.908	2453.614	2470.522	---	PASS
	Ant2	2462	17.315	2453.474	2470.789	---	PASS
11N20	Ant1	2412	18.135	2402.950	2421.085	---	PASS
	Ant2	2412	18.063	2402.991	2421.054	---	PASS
	Ant1	2437	18.139	2427.936	2446.075	---	PASS
	Ant2	2437	18.246	2427.868	2446.114	---	PASS
	Ant1	2462	18.216	2452.956	2471.172	---	PASS
	Ant2	2462	18.148	2452.980	2471.128	---	PASS
11N40	Ant1	2422	36.315	2403.852	2440.167	---	PASS
	Ant2	2422	36.239	2403.876	2440.115	---	PASS
	Ant1	2437	36.308	2418.847	2455.155	---	PASS
	Ant2	2437	36.366	2418.819	2455.185	---	PASS
	Ant1	2452	36.326	2433.851	2470.177	---	PASS
	Ant2	2452	36.350	2433.859	2470.209	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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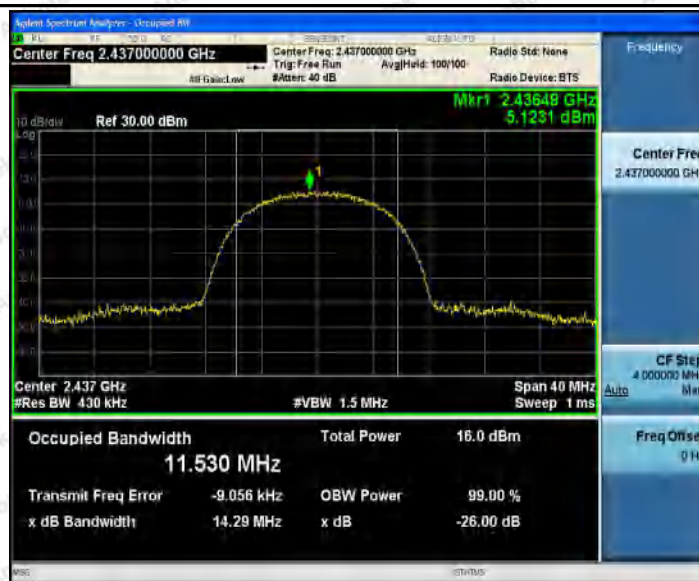
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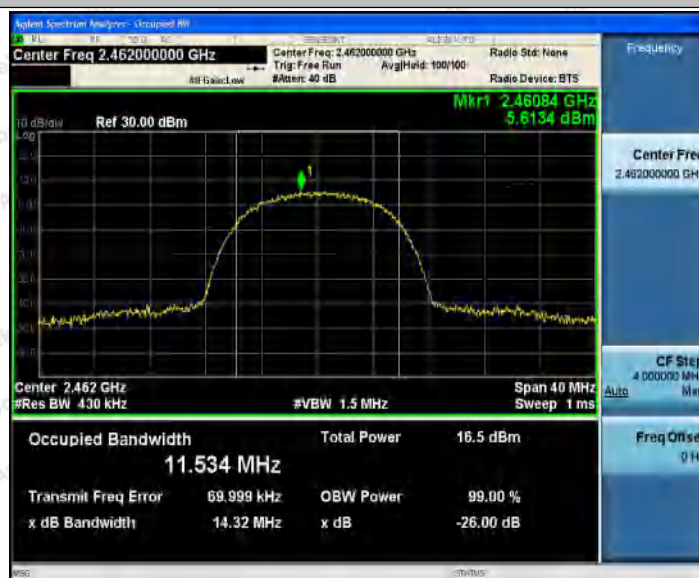
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11B_Ant2_2437



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



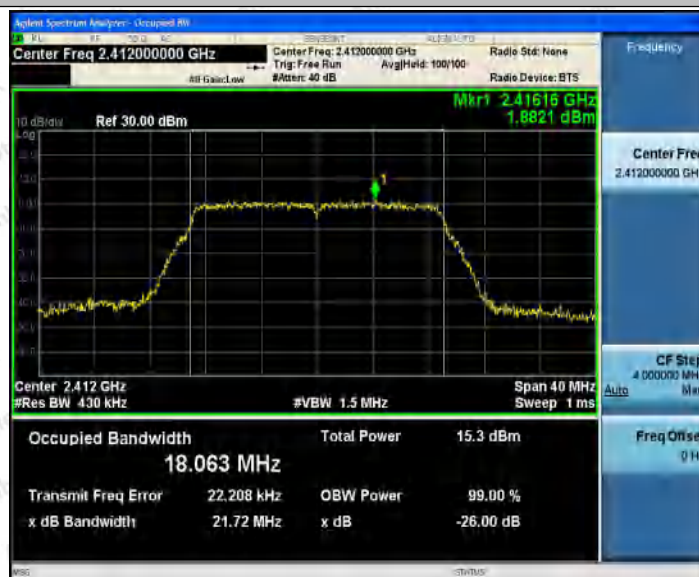
11G_Ant2_2462



11N20_Ant1_2412



11N20_Ant2_2412



11N20_Ant1_2437



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11N20_Ant2_2437



11N20_Ant1_2462



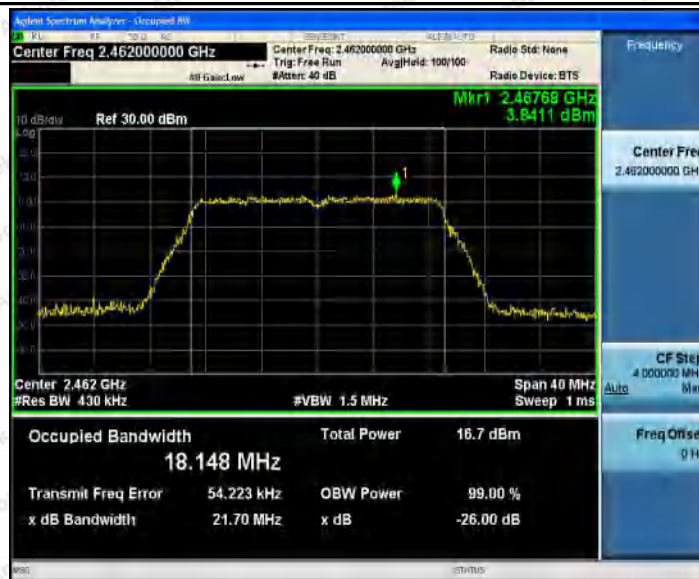
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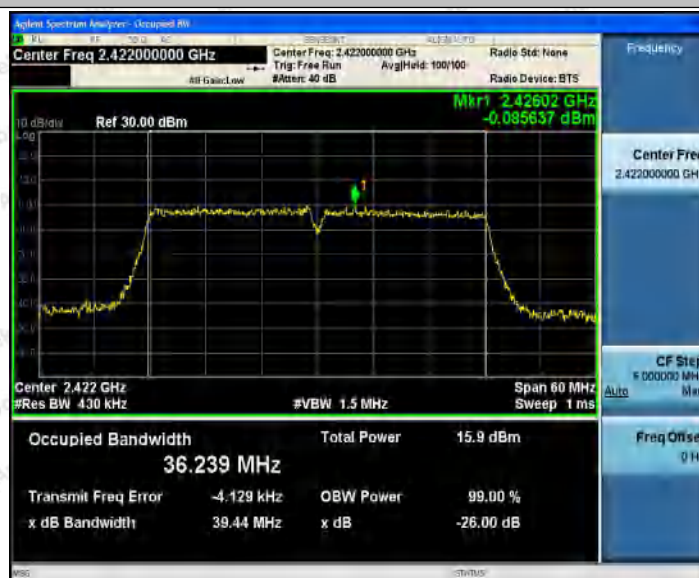
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11N40_Ant1_2422



11N40_Ant2_2422



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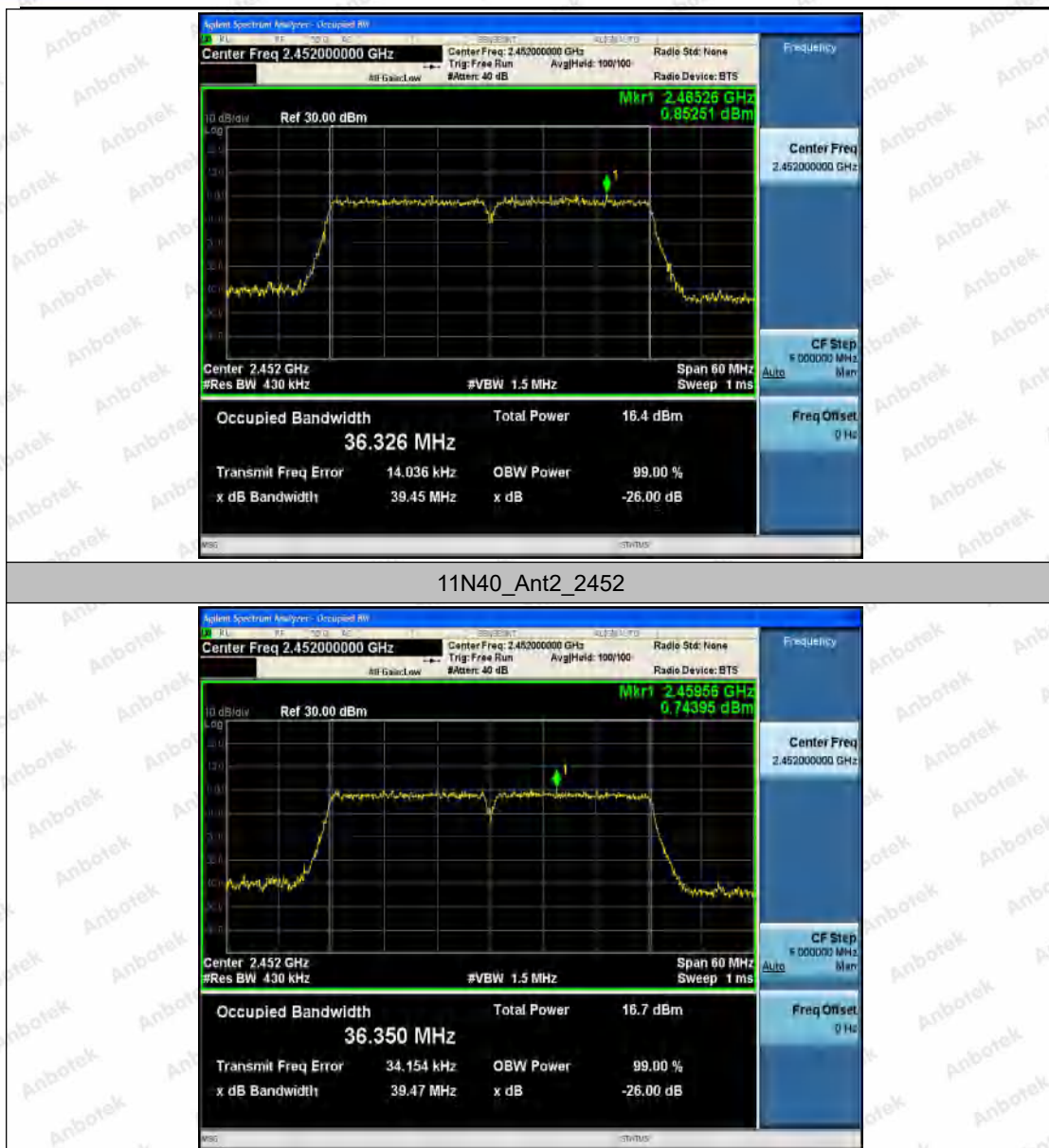
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.08	≤30	PASS
	Ant2	2412	15.18	≤30	PASS
	Ant1	2437	15.77	≤30	PASS
	Ant2	2437	15.62	≤30	PASS
	Ant1	2462	16.15	≤30	PASS
	Ant2	2462	15.89	≤30	PASS
11G	Ant1	2412	16.11	≤30	PASS
	Ant2	2412	16.10	≤30	PASS
	Ant1	2437	16.76	≤30	PASS
	Ant2	2437	16.70	≤30	PASS
	Ant1	2462	17.52	≤30	PASS
	Ant2	2462	18.02	≤30	PASS
11N20	Ant1	2412	16.39	≤30	PASS
	Ant2	2412	16.14	≤30	PASS
	Ant1	2437	16.54	≤30	PASS
	Ant2	2437	16.88	≤30	PASS
	Ant1	2462	17.29	≤30	PASS
	Ant2	2462	17.44	≤30	PASS
11N40	Ant1	2422	13.94	≤30	PASS
	Ant2	2422	14.00	≤30	PASS
	Ant1	2437	13.96	≤30	PASS
	Ant2	2437	14.10	≤30	PASS
	Ant1	2452	14.52	≤30	PASS
	Ant2	2452	14.71	≤30	PASS

MIMO:

Test Condition	Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
NTNV	11N20MIMO	2412	19.277	≤30	PASS
		2437	19.724	≤30	PASS
		2462	20.376	≤30	PASS
	11N40MIMO	2422	16.980	≤30	PASS
		2437	17.041	≤30	PASS
		2452	17.626	≤30	PASS

Appendix D: Maximum power spectral density

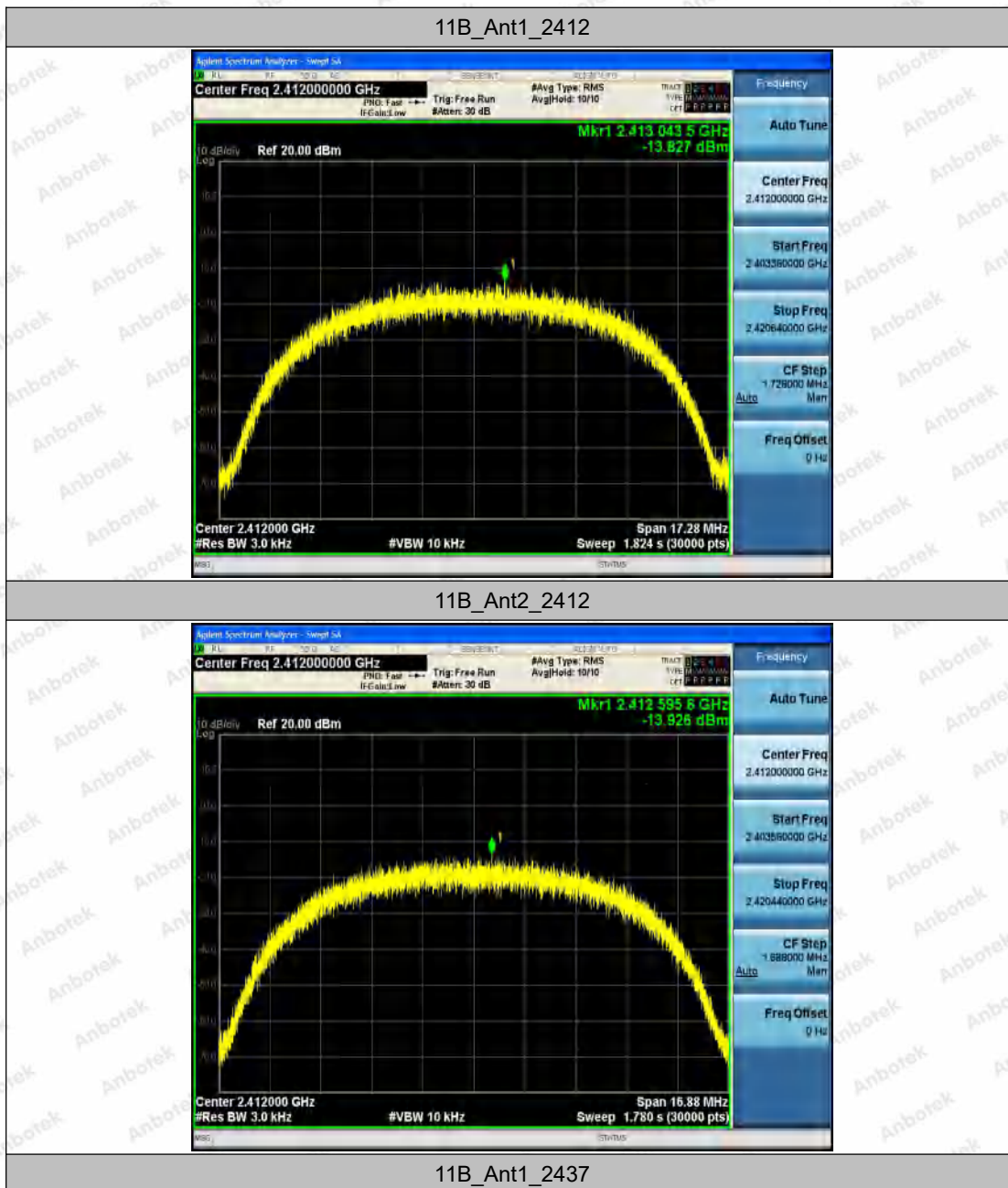
Test Result

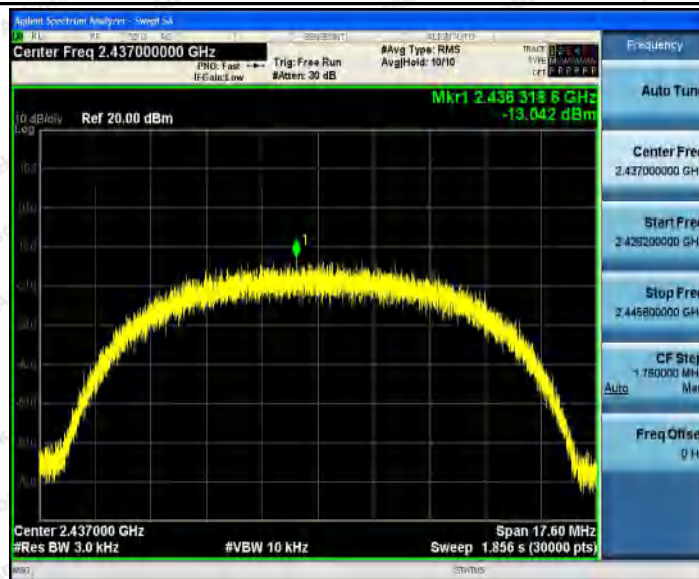
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.83	≤8	PASS
	Ant2	2412	-13.93	≤8	PASS
	Ant1	2437	-13.04	≤8	PASS
	Ant2	2437	-13.73	≤8	PASS
	Ant1	2462	-12.52	≤8	PASS
	Ant2	2462	-12.65	≤8	PASS
11G	Ant1	2412	-17.31	≤8	PASS
	Ant2	2412	-17.16	≤8	PASS
	Ant1	2437	-16.5	≤8	PASS
	Ant2	2437	-16.22	≤8	PASS
	Ant1	2462	-16.16	≤8	PASS
	Ant2	2462	-15.56	≤8	PASS
11N20	Ant1	2412	-16	≤8	PASS
	Ant2	2412	-17.24	≤8	PASS
	Ant1	2437	-15.36	≤8	PASS
	Ant2	2437	-15.01	≤8	PASS
	Ant1	2462	-15.71	≤8	PASS
	Ant2	2462	-15.57	≤8	PASS
11N40	Ant1	2422	-18.46	≤8	PASS
	Ant2	2422	-18.33	≤8	PASS
	Ant1	2437	-18.46	≤8	PASS
	Ant2	2437	-16.93	≤8	PASS
	Ant1	2452	-16.92	≤8	PASS
	Ant2	2452	-16.84	≤8	PASS

MIMO:

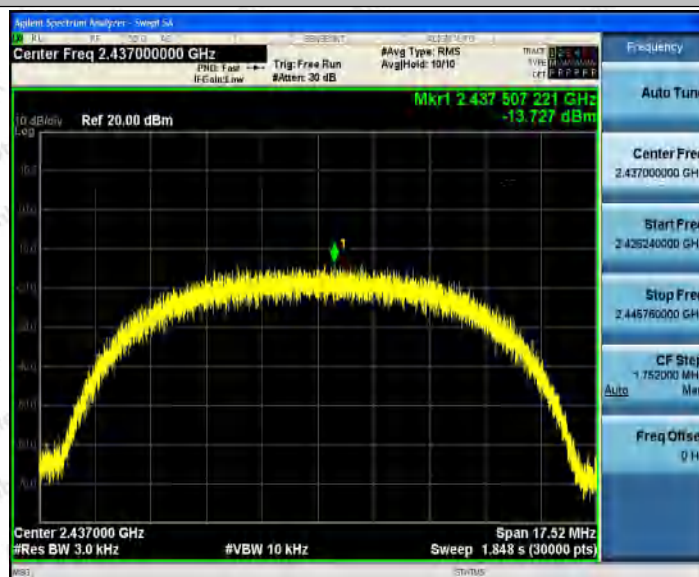
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NTNV	11N20MIMO	2422	-13.566	≤8	PASS
		2437	-12.171	≤8	PASS
		2462	-12.629	≤8	PASS
	11N40MIMO	2422	-15.384	≤8	PASS
		2437	-14.618	≤8	PASS
		2452	-13.870	≤8	PASS

Test Graphs

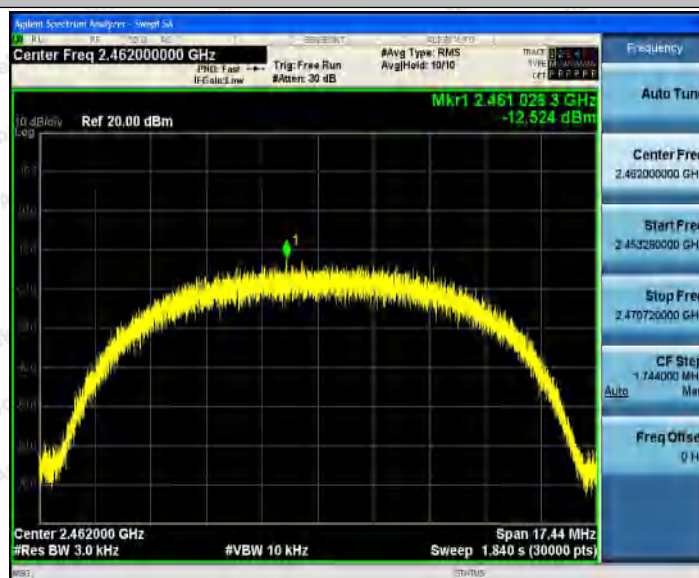




11B_Ant2_2437



11B_Ant1_2462



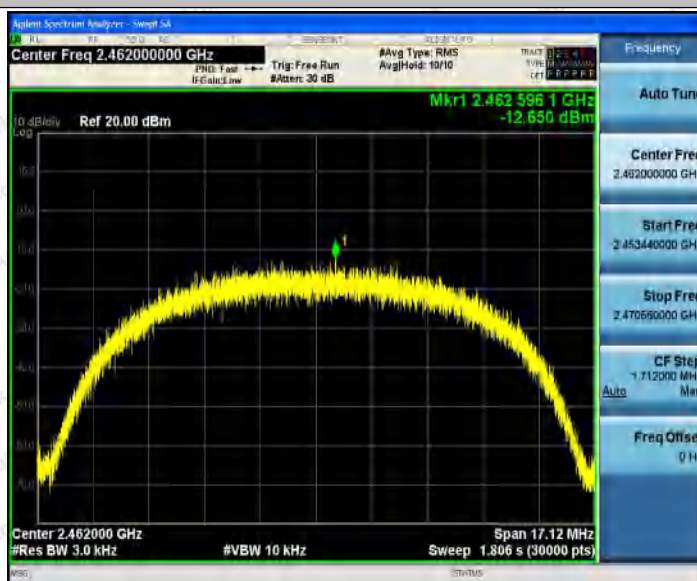
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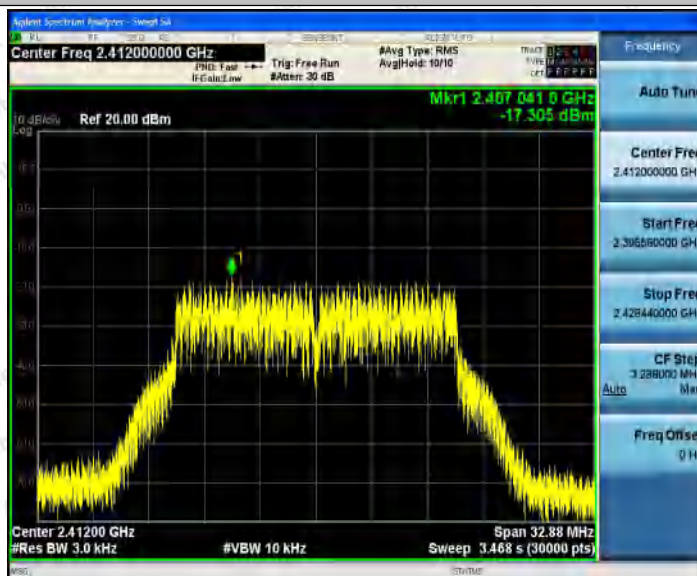
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11B_Ant2_2462



11G_Ant1_2412



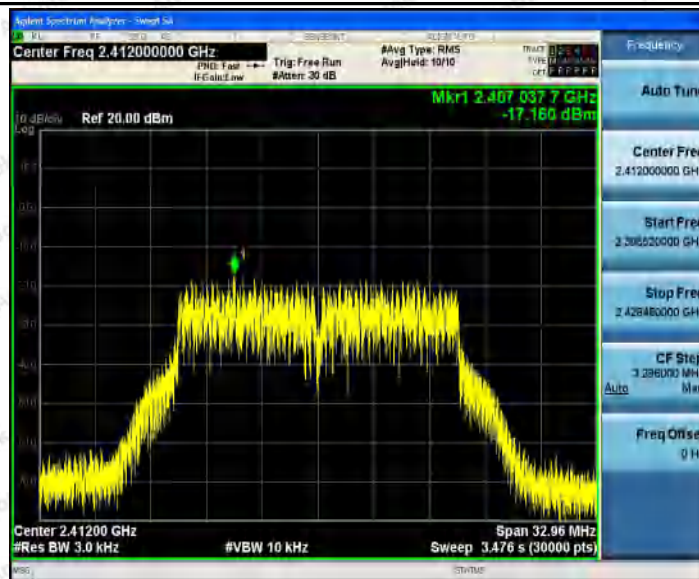
11G_Ant2_2412

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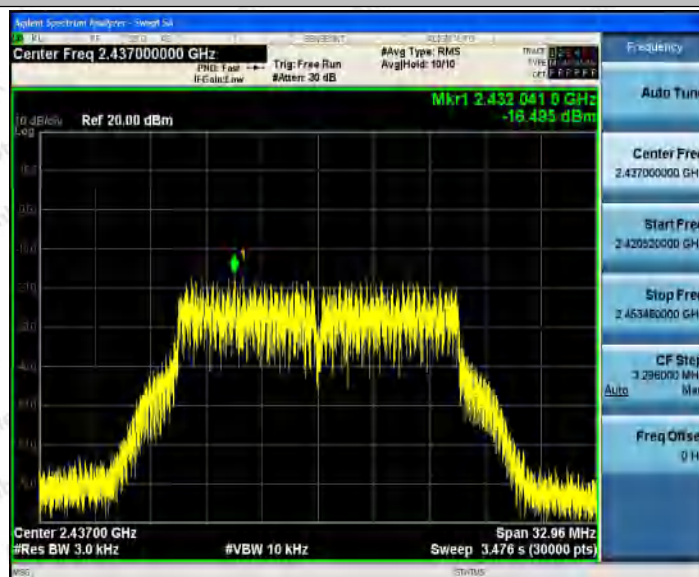
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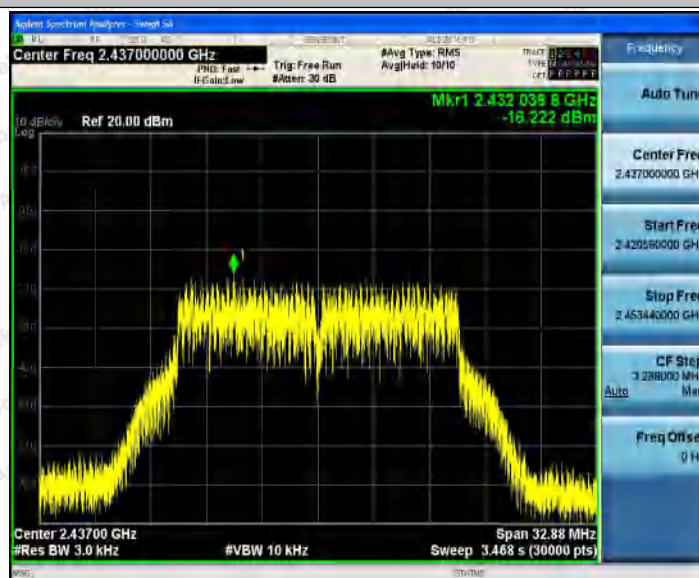
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11G_Ant1_2437



11G_Ant2_2437



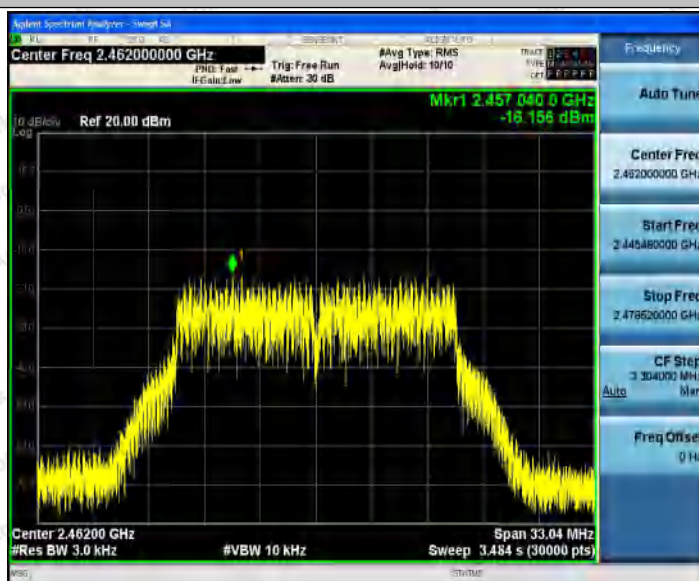
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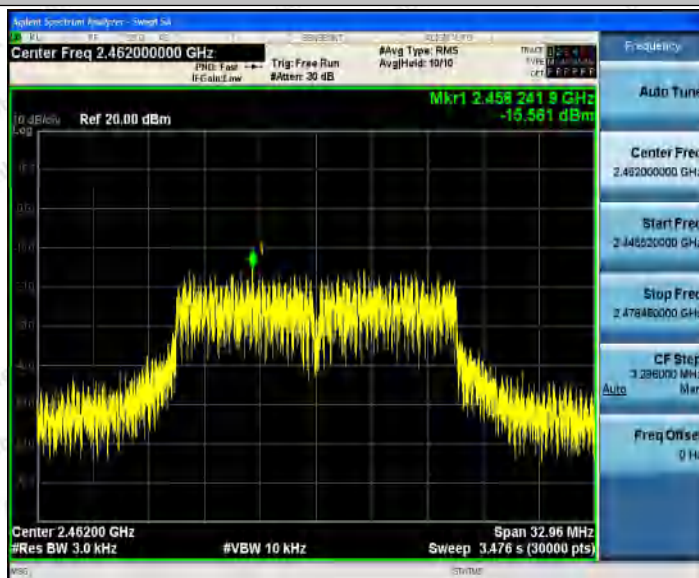
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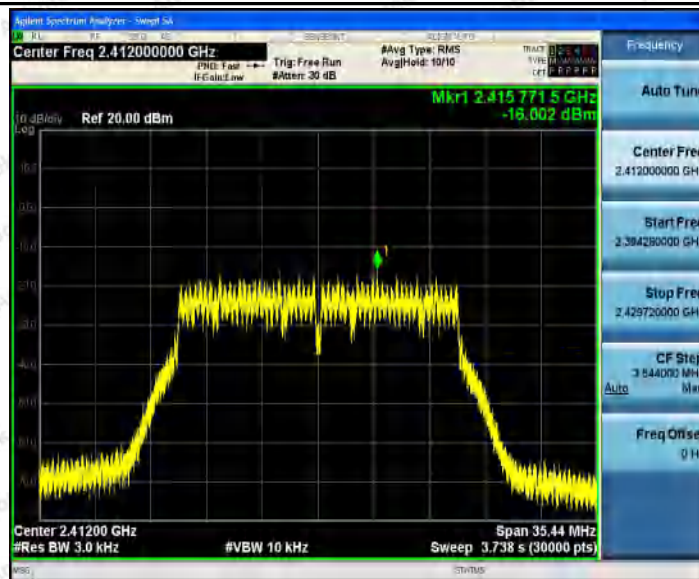
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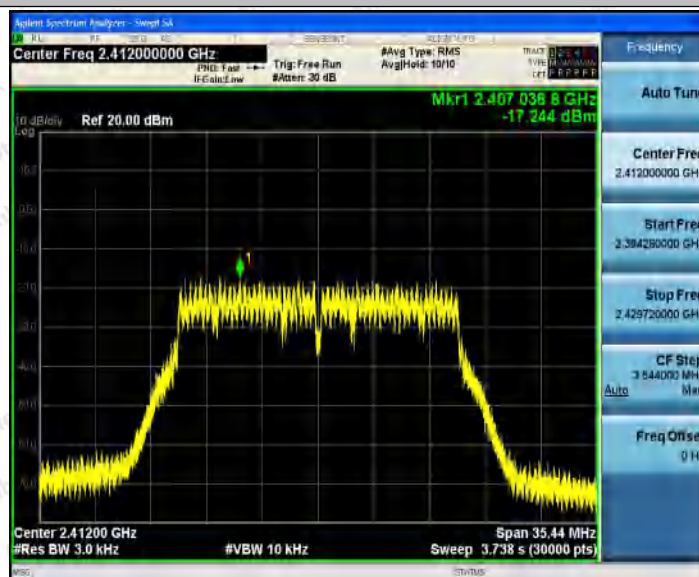
11G_Ant2_2462



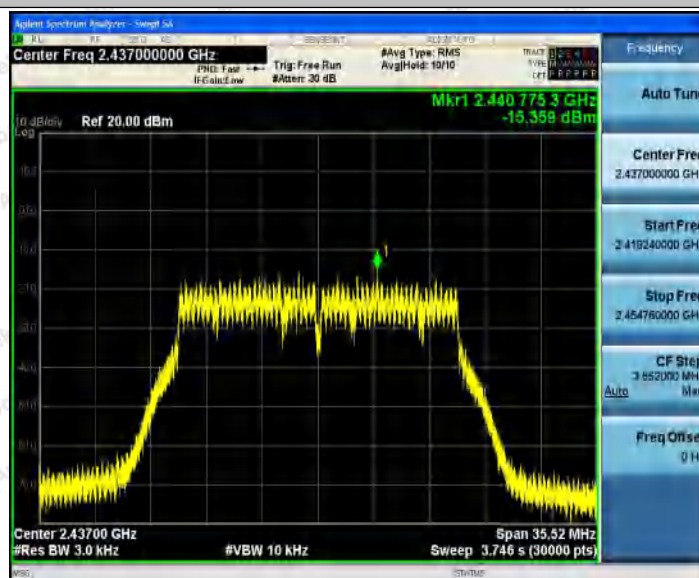
11N20_Ant1_2412



11N20_Ant2_2412



11N20_Ant1_2437



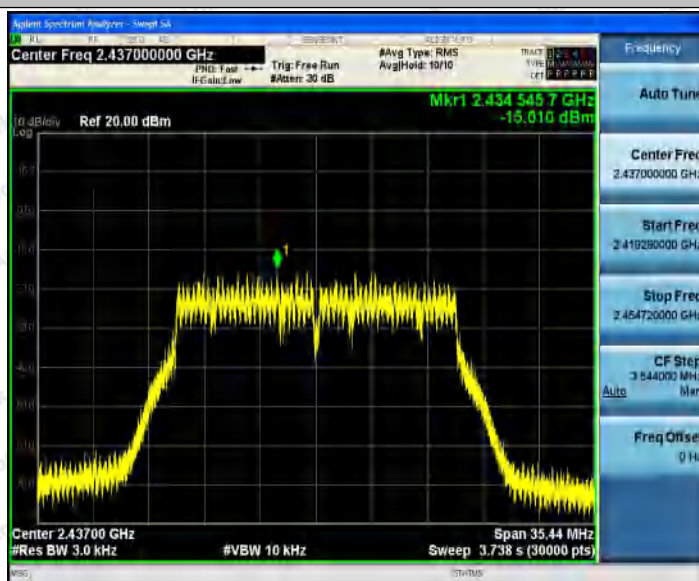
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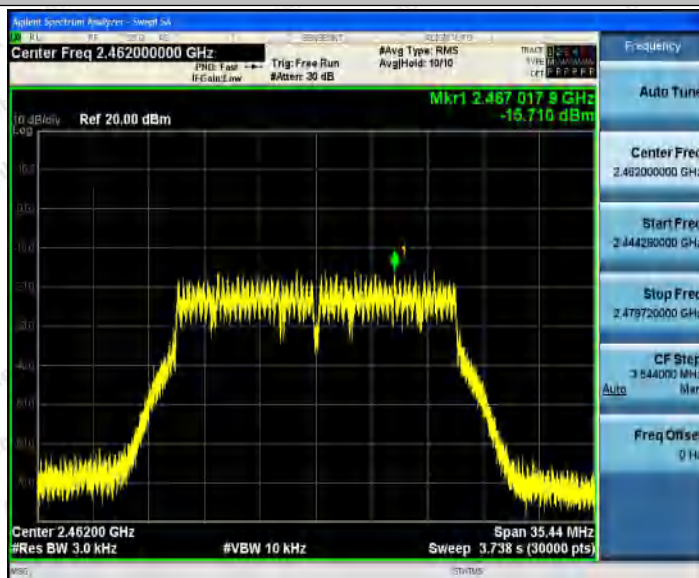
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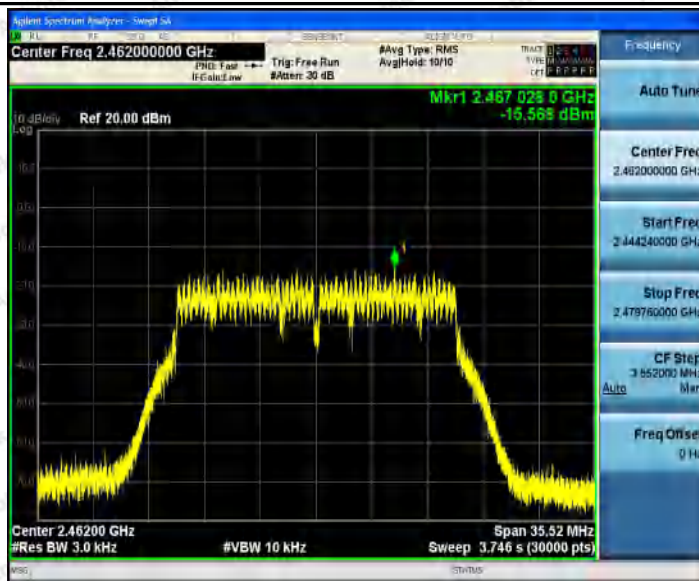
11N20_Ant2_2437



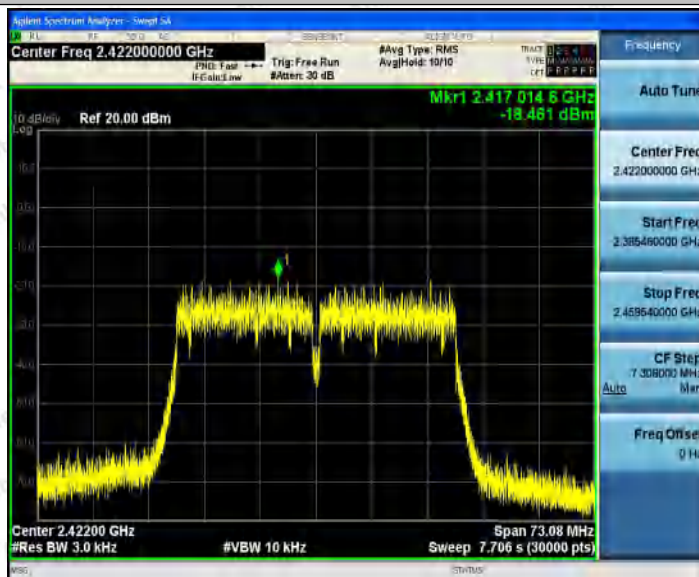
11N20_Ant1_2462



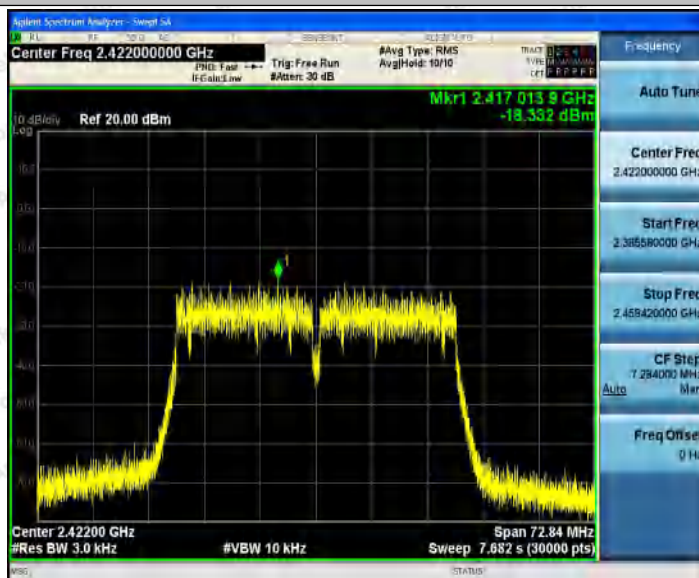
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11N40_Ant1_2422



11N40_Ant2_2422



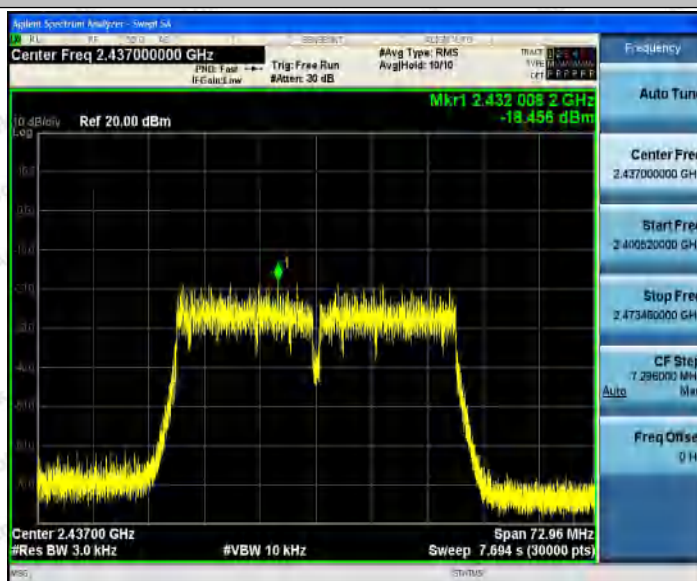
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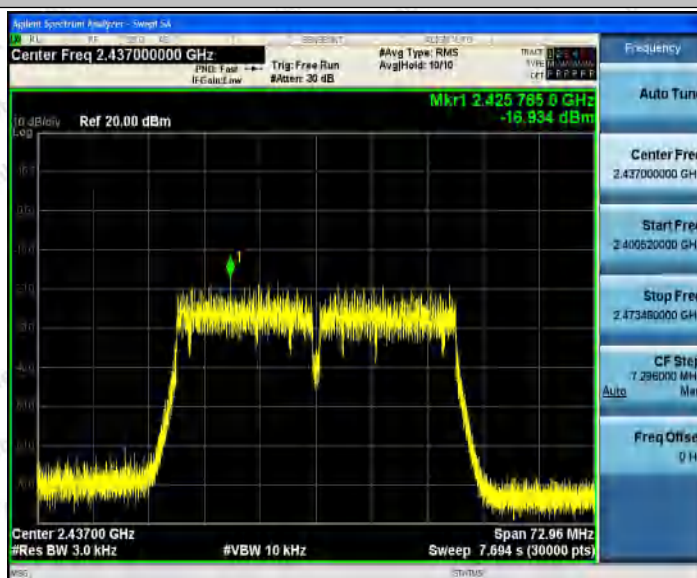
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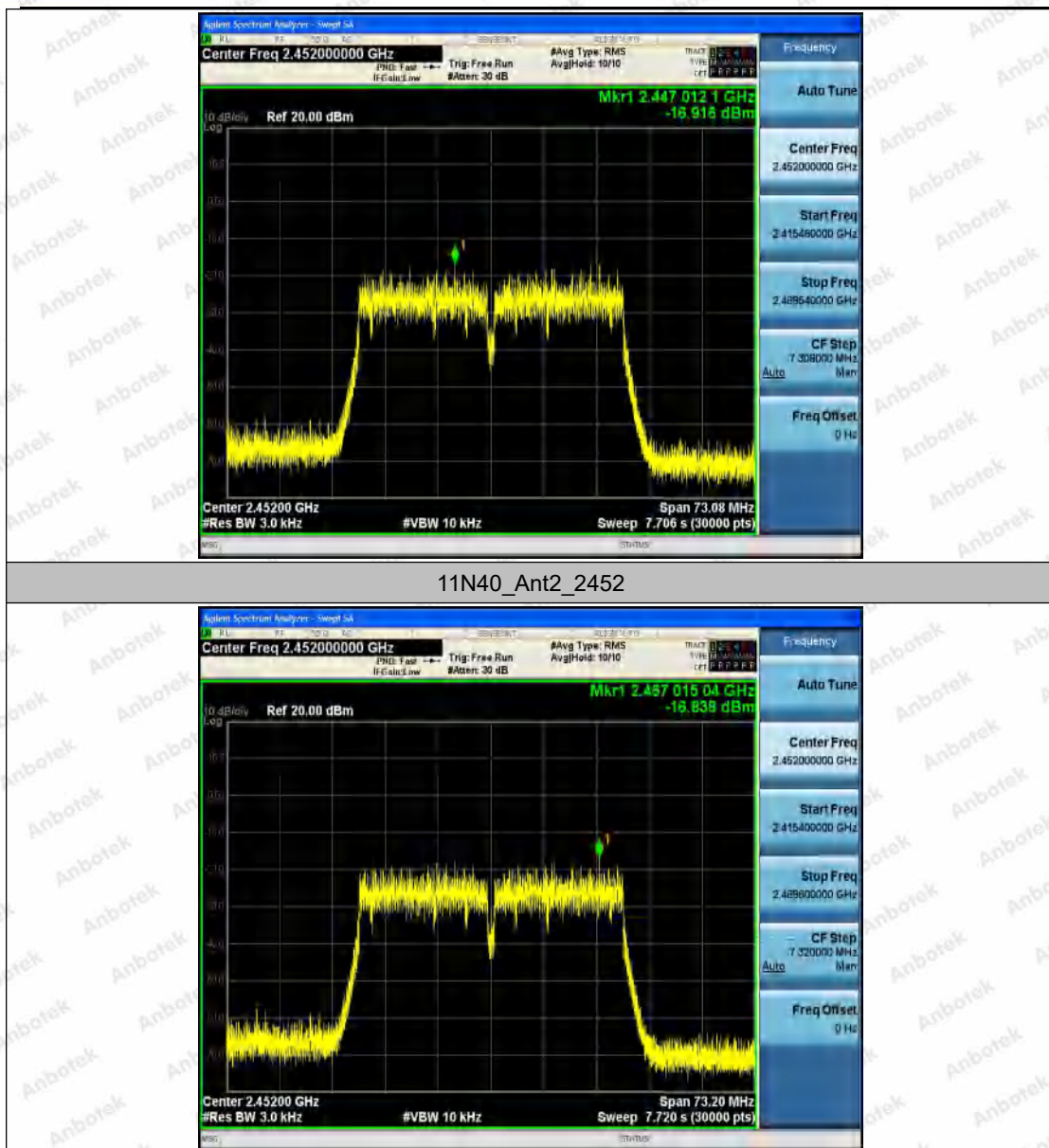
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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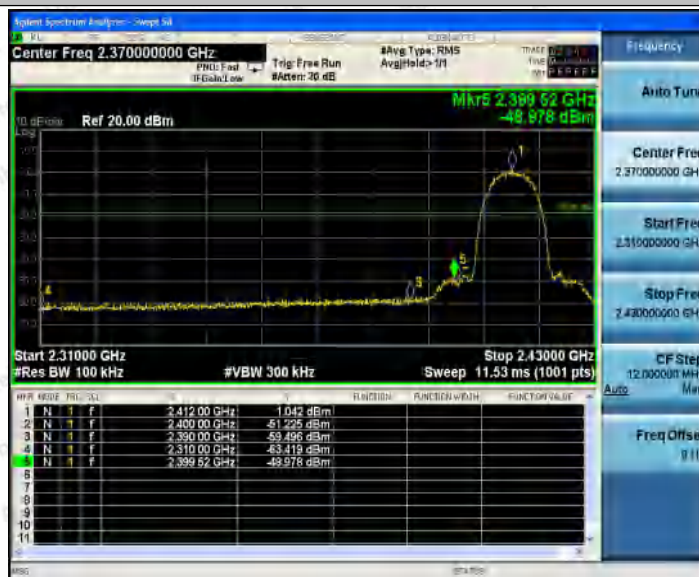
Appendix E: Band edge measurements

Test Result

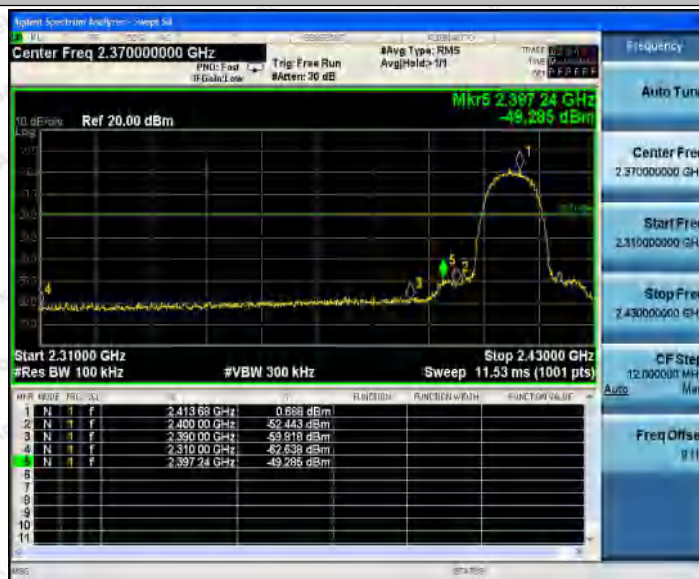
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.04	-48.98	≤-18.96	PASS
	Ant2	Low	2412	0.69	-49.29	≤-19.31	PASS
	Ant1	High	2462	1.19	-57.01	≤-18.81	PASS
	Ant2	High	2462	2.00	-56.73	≤-18	PASS
11G	Ant1	Low	2412	-2.33	-45.68	≤-22.33	PASS
	Ant2	Low	2412	-2.36	-45.41	≤-22.36	PASS
	Ant1	High	2462	-0.87	-51.49	≤-20.87	PASS
	Ant2	High	2462	-0.70	-36.68	≤-20.7	PASS
11N20	Ant1	Low	2412	-2.11	-43.77	≤-22.11	PASS
	Ant2	Low	2412	-2.53	-44.62	≤-22.53	PASS
	Ant1	High	2462	-0.80	-54.59	≤-20.8	PASS
	Ant2	High	2462	-1.01	-53.91	≤-21.01	PASS
11N40	Ant1	Low	2422	-4.63	-45.02	≤-24.63	PASS
	Ant2	Low	2422	-4.60	-45.15	≤-24.6	PASS
	Ant1	High	2452	-4.13	-47.65	≤-24.13	PASS
	Ant2	High	2452	-3.99	-47.92	≤-23.99	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462



11B_Ant2_High_2462



11G_Ant1_Low_2412



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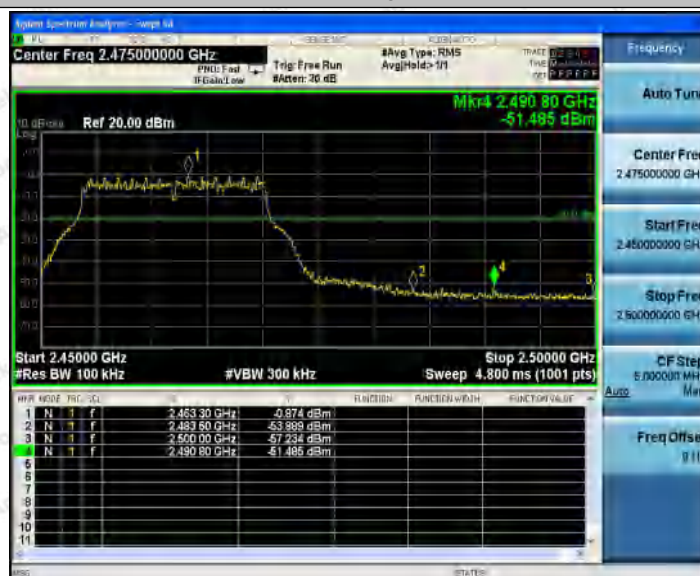
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11G_Ant2_Low_2412



11G_Ant1_High_2462



11G_Ant2_High_2462



11N20_Ant1_Low_2412



11N20_Ant2_Low_2412



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11N20_Ant1_High_2462



11N20_Ant2_High_2462



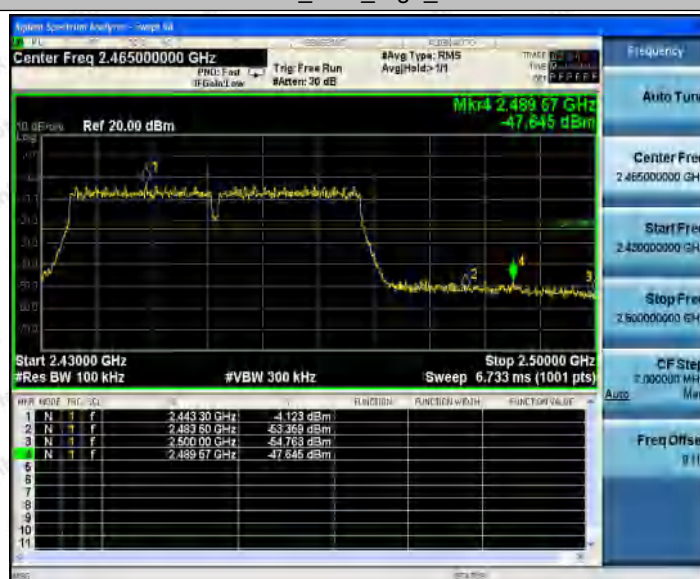
11N40_Ant1_Low_2422



11N40_Ant2_Low_2422



11N40_Ant1_High_2452

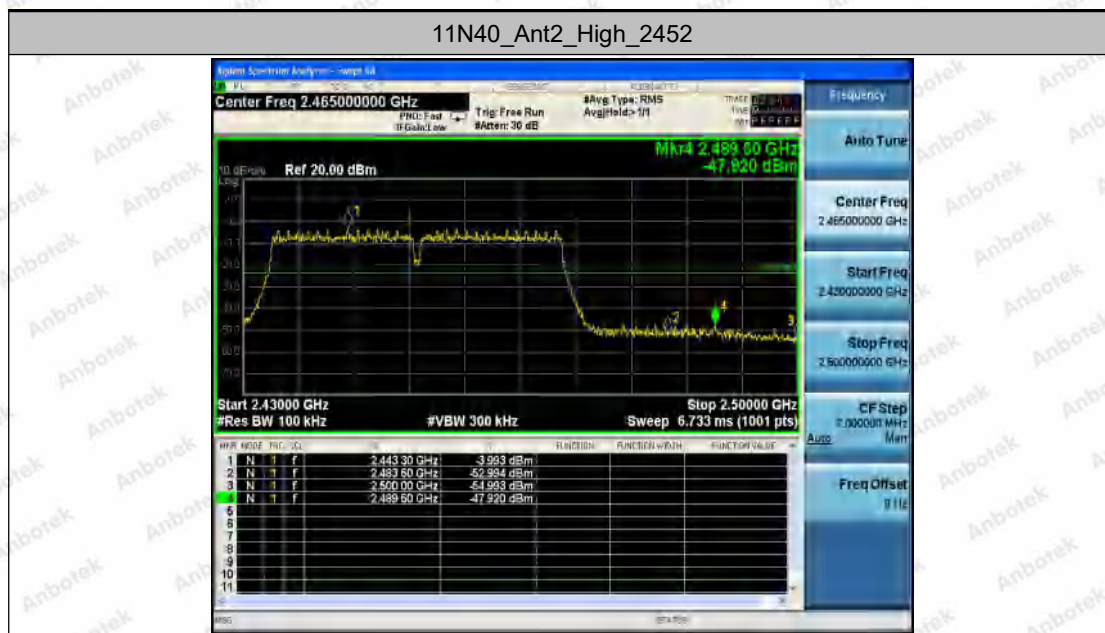


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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-69.61	≤-20.01	PASS
			1000~26500	-0.01	-55.4	≤-20.01	PASS
	Ant2	2412	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-70.31	≤-19.43	PASS
			1000~26500	0.57	-55.77	≤-19.43	PASS
	Ant1	2437	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-70.83	≤-18.75	PASS
			1000~26500	1.25	-55.65	≤-18.75	PASS
	Ant2	2437	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-70.75	≤-19.35	PASS
			1000~26500	0.66	-55.49	≤-19.35	PASS
	Ant1	2462	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-69.98	≤-18.98	PASS
			1000~26500	1.02	-56.3	≤-18.98	PASS
	Ant2	2462	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-70.15	≤-18.63	PASS
			1000~26500	1.37	-55.5	≤-18.63	PASS
11G	Ant1	2412	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-69.91	≤-22.45	PASS
			1000~26500	-2.45	-55.28	≤-22.45	PASS
	Ant2	2412	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-70.75	≤-22.45	PASS
			1000~26500	-2.45	-56.09	≤-22.45	PASS
	Ant1	2437	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-69.84	≤-21.85	PASS
			1000~26500	-1.85	-55.74	≤-21.85	PASS
	Ant2	2437	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-69.86	≤-22.09	PASS
			1000~26500	-2.09	-56.06	≤-22.09	PASS
	Ant1	2462	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-69.76	≤-20.97	PASS
			1000~26500	-0.97	-55.48	≤-20.97	PASS
	Ant2	2462	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-70.3	≤-20.63	PASS
			1000~26500	-0.63	-55.21	≤-20.63	PASS
11N20	Ant1	2412	Reference	-2.29	-2.29	---	PASS

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11N40	Ant2	2412	30~1000	-2.29	-69.79	≤ -22.29	PASS
			1000~26500	-2.29	-55.27	≤ -22.29	PASS
			Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-70.04	≤ -22.41	PASS
			1000~26500	-2.41	-55.08	≤ -22.41	PASS
			Reference	-1.92	-1.92	---	PASS
	Ant1	2437	30~1000	-1.92	-69.93	≤ -21.92	PASS
			1000~26500	-1.92	-55.28	≤ -21.92	PASS
			Reference	-1.74	-1.74	---	PASS
	Ant2	2437	30~1000	-1.74	-70.68	≤ -21.74	PASS
			1000~26500	-1.74	-55.54	≤ -21.74	PASS
			Reference	-1.06	-1.06	---	PASS
	Ant1	2462	30~1000	-1.06	-70.29	≤ -21.06	PASS
			1000~26500	-1.06	-56.06	≤ -21.06	PASS
			Reference	-1.34	-1.34	---	PASS
	Ant2	2462	30~1000	-1.34	-70.32	≤ -21.34	PASS
			1000~26500	-1.34	-55.91	≤ -21.34	PASS
			Reference	-4.58	-4.58	---	PASS
	Ant1	2422	30~1000	-4.58	-70.01	≤ -24.58	PASS
			1000~26500	-4.58	-54.96	≤ -24.58	PASS
			Reference	-4.61	-4.61	---	PASS
	Ant2	2422	30~1000	-4.61	-70.16	≤ -24.61	PASS
			1000~26500	-4.61	-55.77	≤ -24.61	PASS
			Reference	-4.33	-4.33	---	PASS
	Ant1	2437	30~1000	-4.33	-70.45	≤ -24.33	PASS
			1000~26500	-4.33	-55.9	≤ -24.33	PASS
			Reference	-4.26	-4.26	---	PASS
	Ant2	2437	30~1000	-4.26	-70.27	≤ -24.26	PASS
			1000~26500	-4.26	-54.23	≤ -24.26	PASS
			Reference	-4.22	-4.22	---	PASS
	Ant1	2452	30~1000	-4.22	-64.55	≤ -24.22	PASS
			1000~26500	-4.22	-55.46	≤ -24.22	PASS
			Reference	-4.03	-4.03	---	PASS
	Ant2	2452	30~1000	-4.03	-70.08	≤ -24.03	PASS
			1000~26500	-4.03	-55.1	≤ -24.03	PASS

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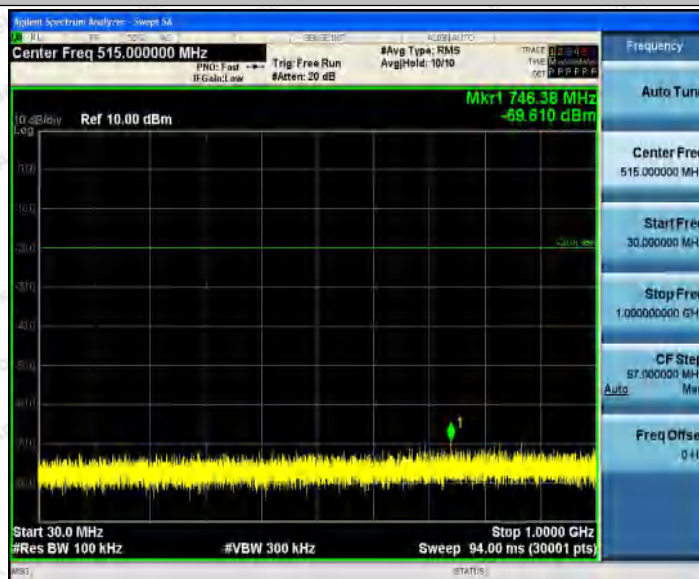
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Test Graphs

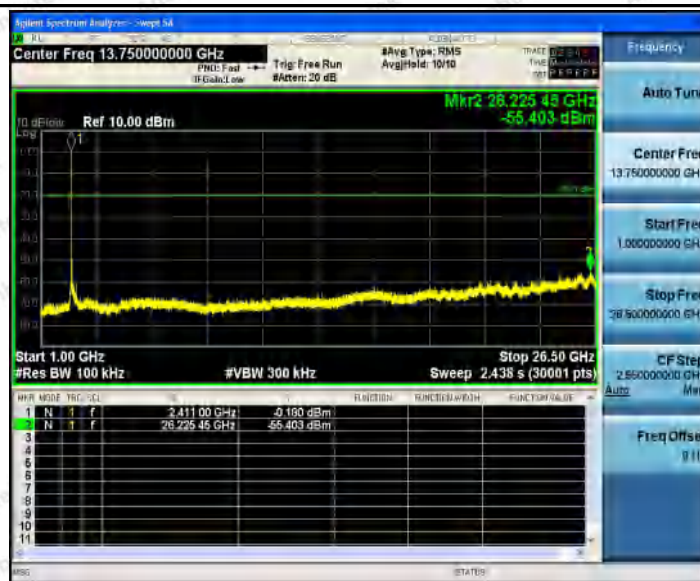
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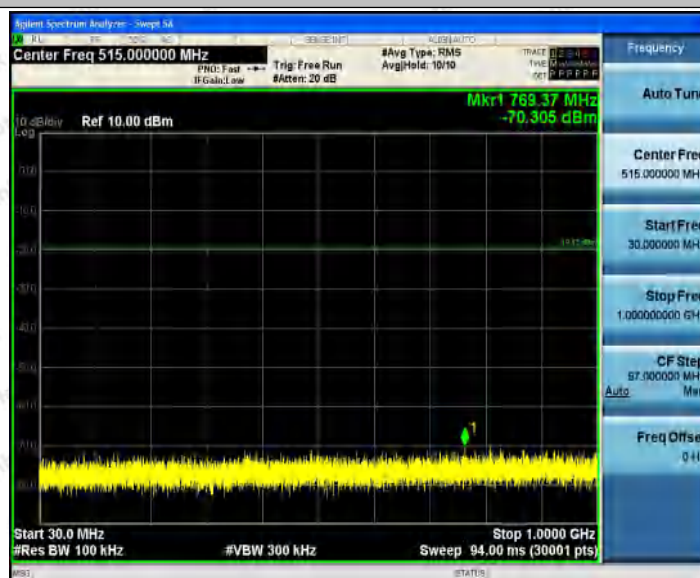
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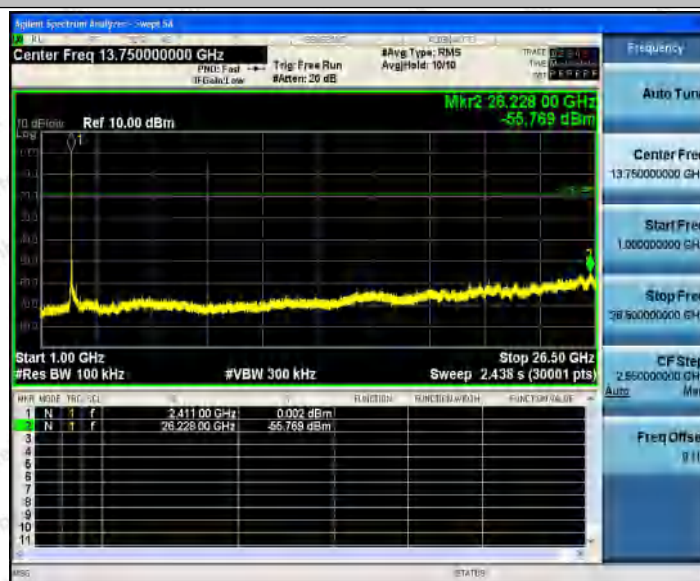
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11B_Ant2_2412_1000~26500



11B_Ant1_2437_0~Reference



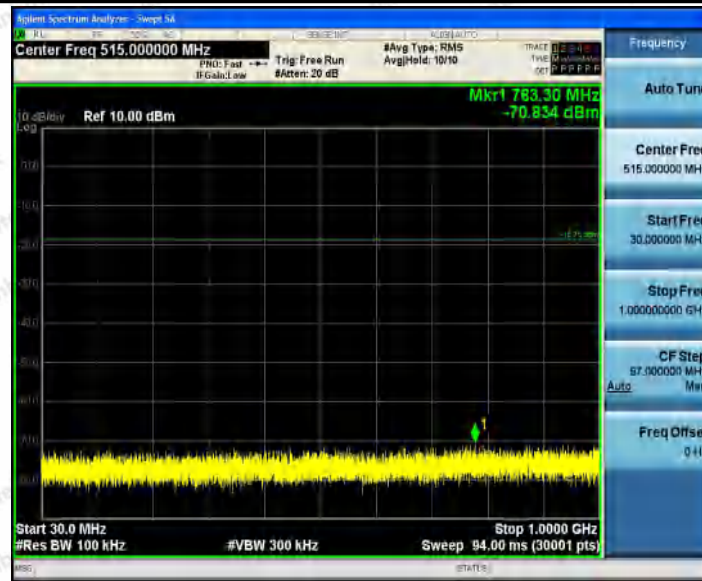
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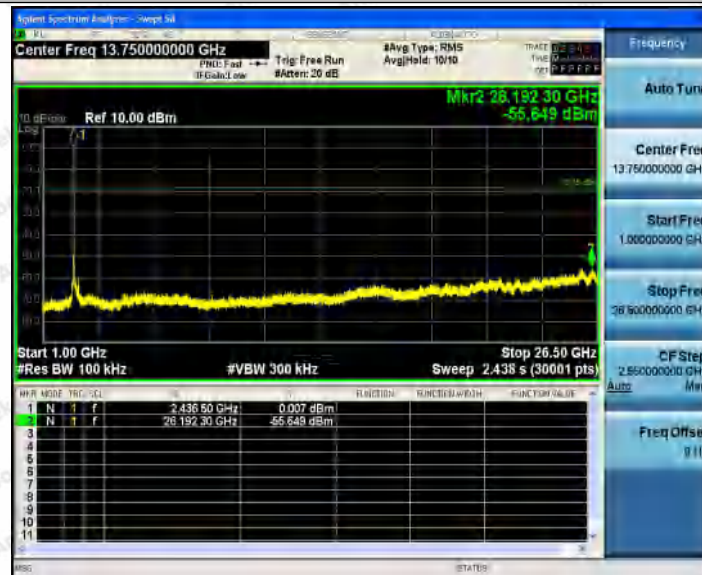
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11B_Ant1_2437_1000~26500



11B_Ant2_2437_0~Reference



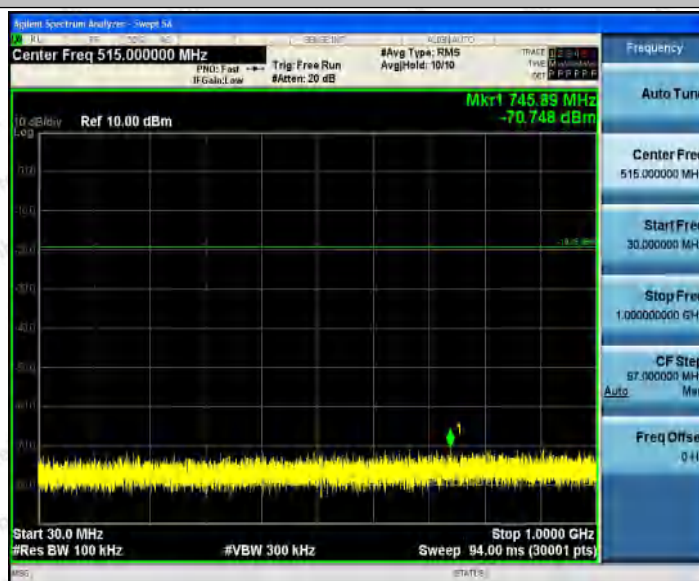
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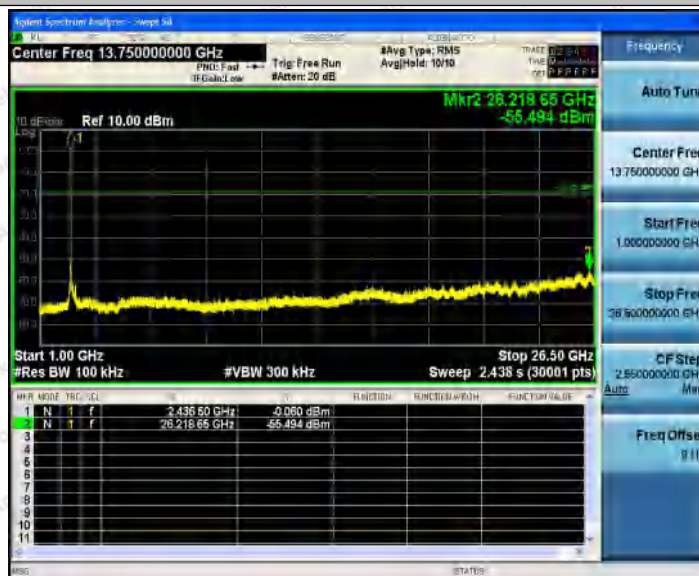
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11B_Ant2_2437_1000~26500



11B_Ant1_2462_0~Reference

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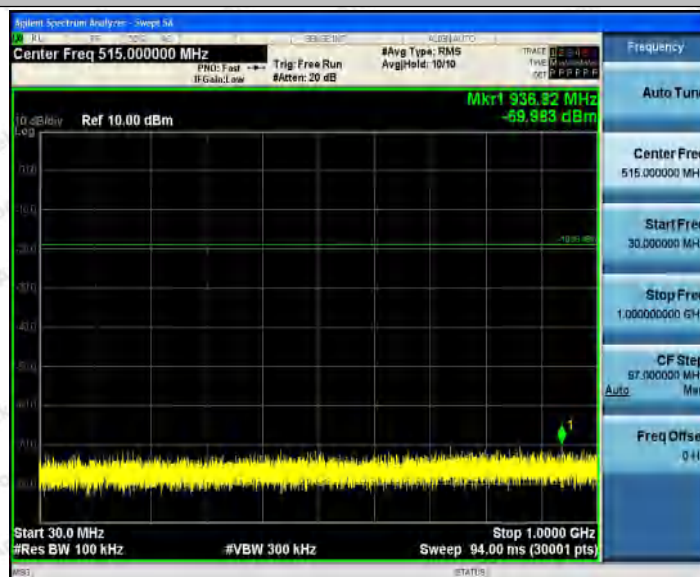
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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



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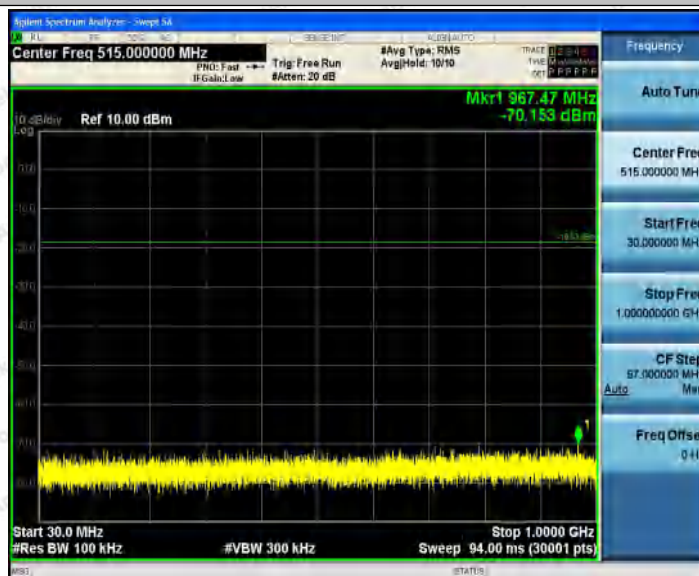
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11B_Ant2_2462_30~1000



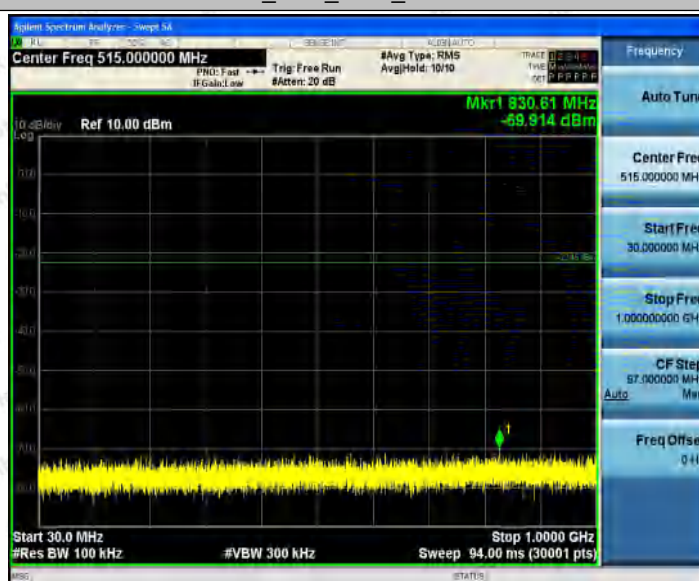
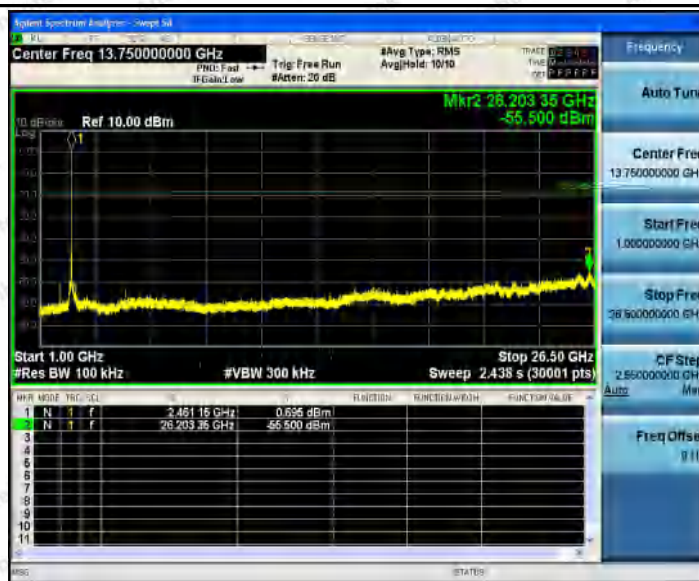
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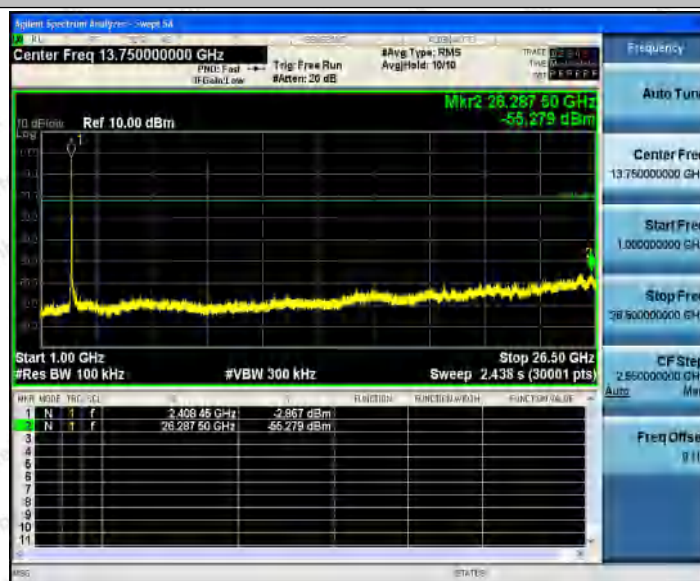
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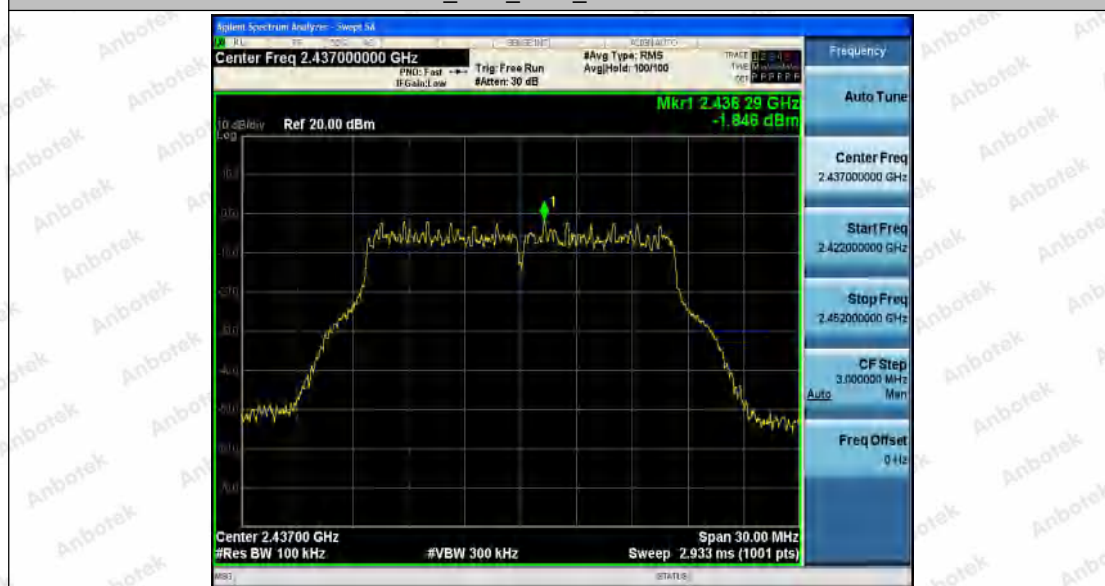
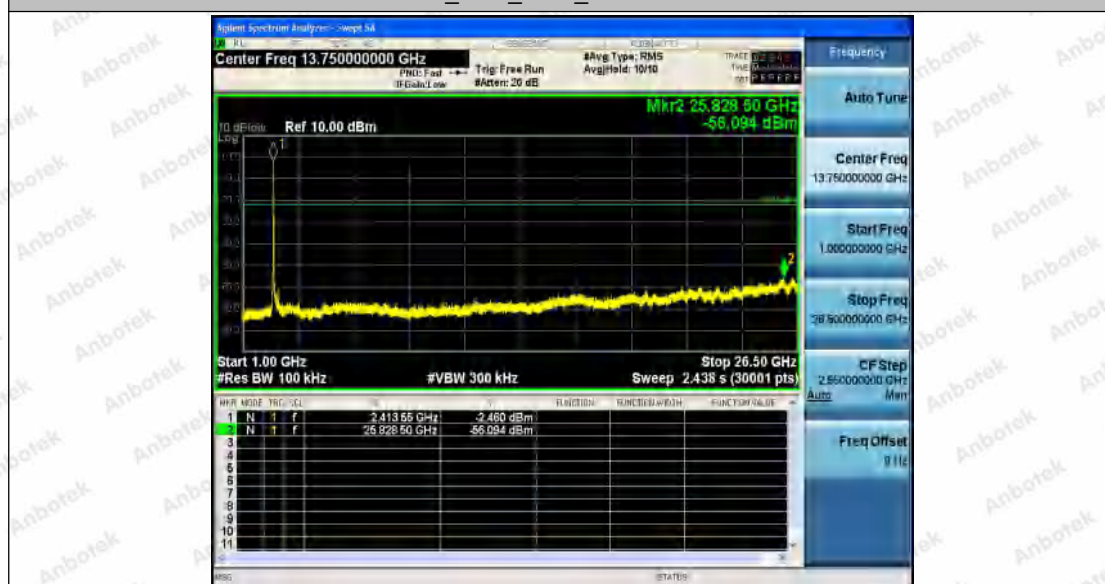
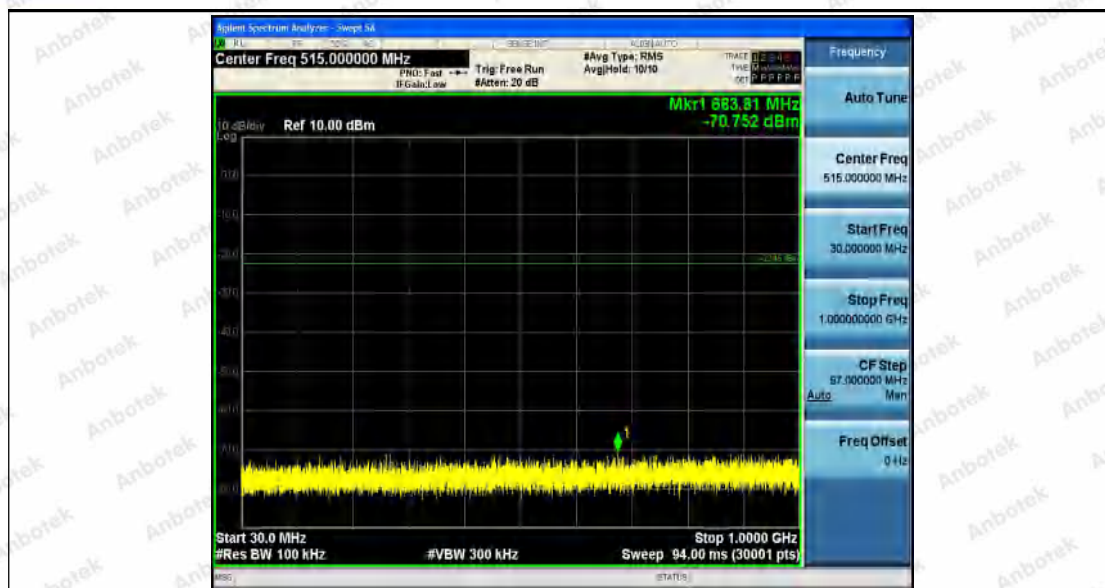
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11G_Ant2_2412_0~Reference



11G_Ant2_2412_30~1000



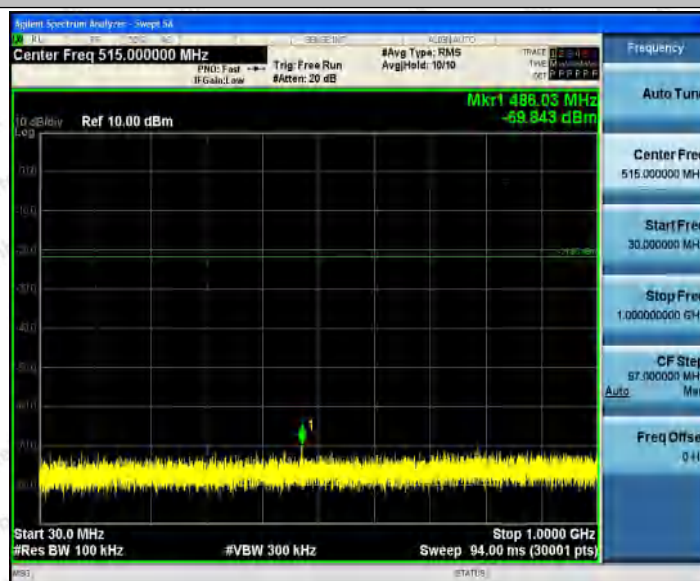
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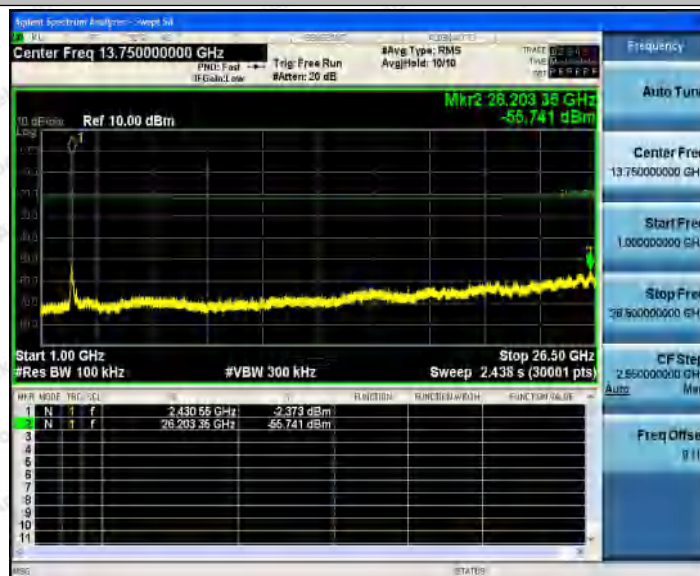
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference

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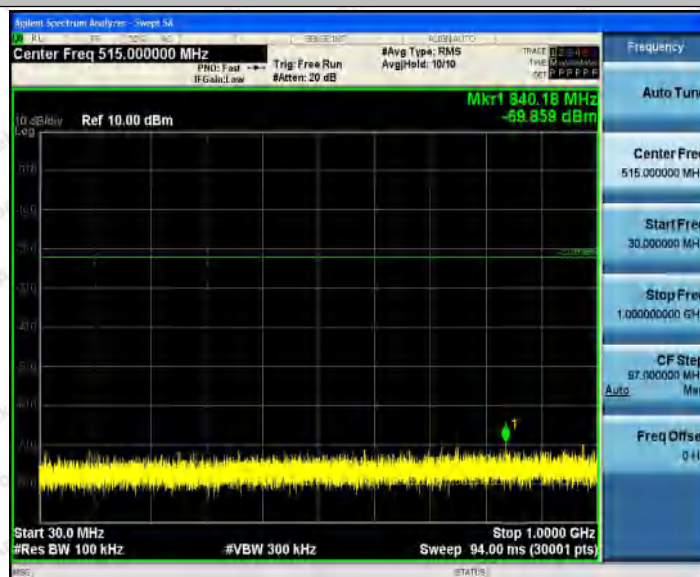
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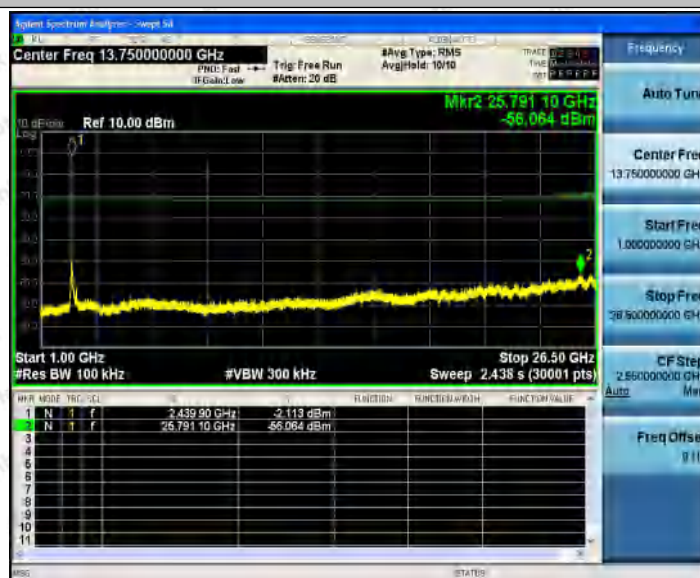
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11G_Ant2_2437_30~1000



11G_Ant2_2437_1000~26500



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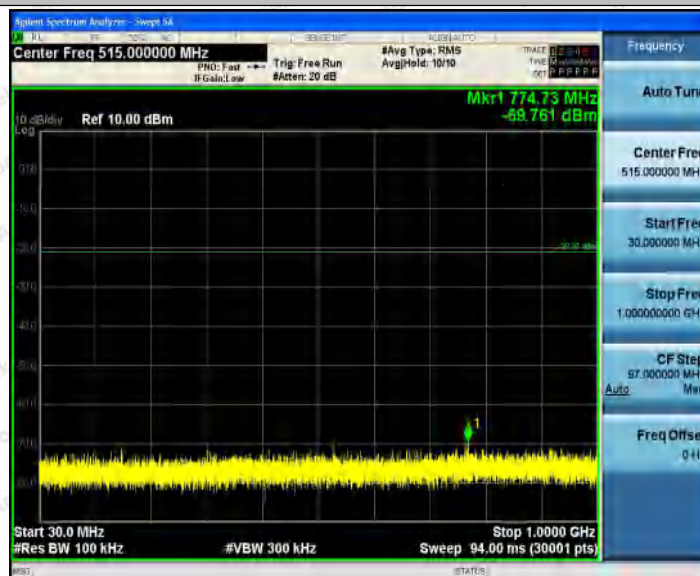
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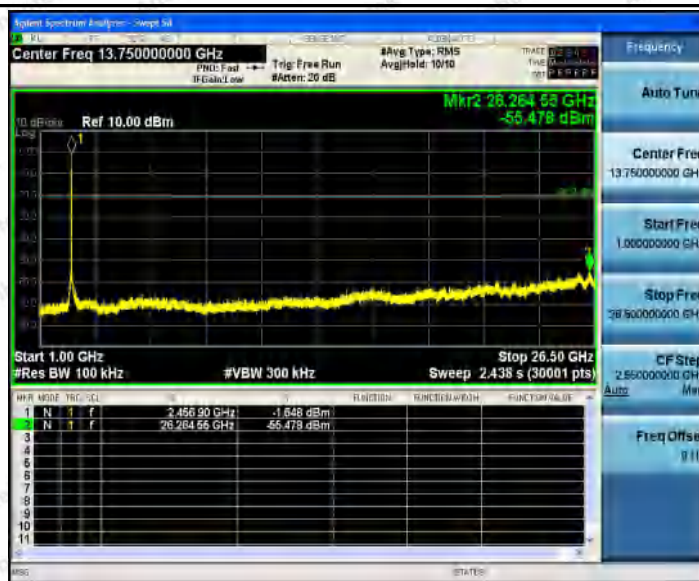
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11G_Ant1_2462_30~1000



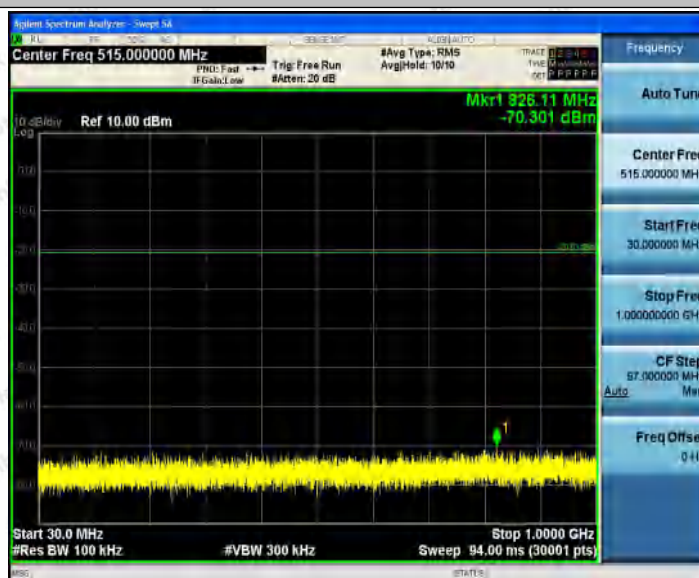
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11G_Ant2_2462_0~Reference



11G_Ant2_2462_30~1000



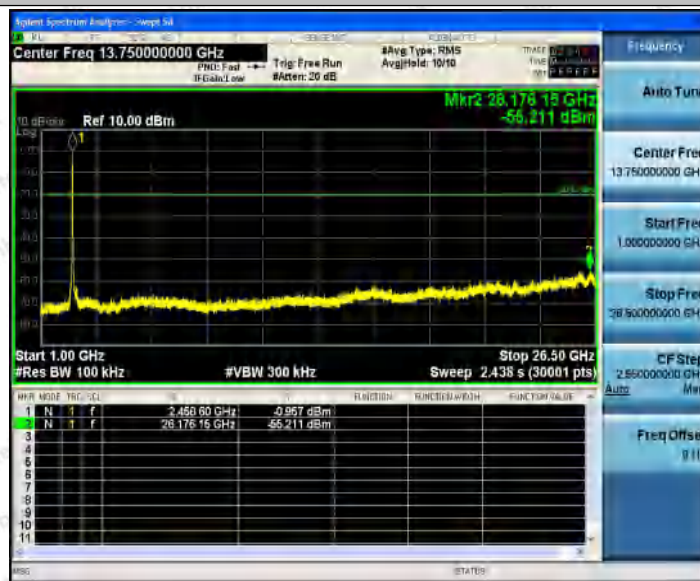
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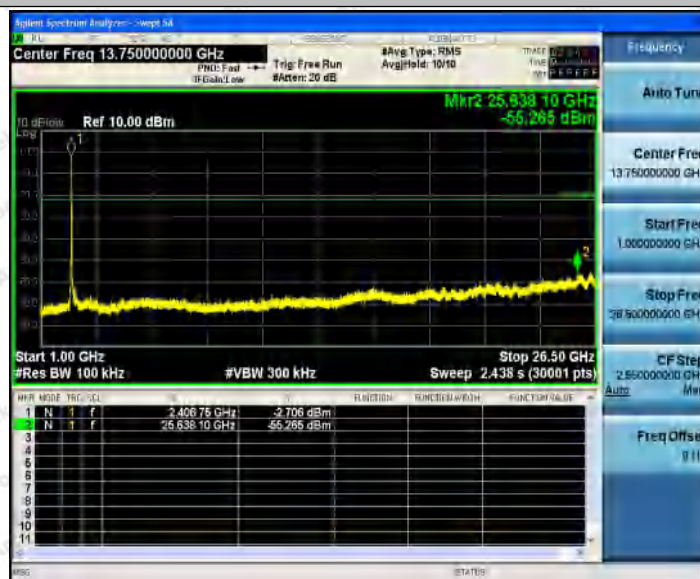
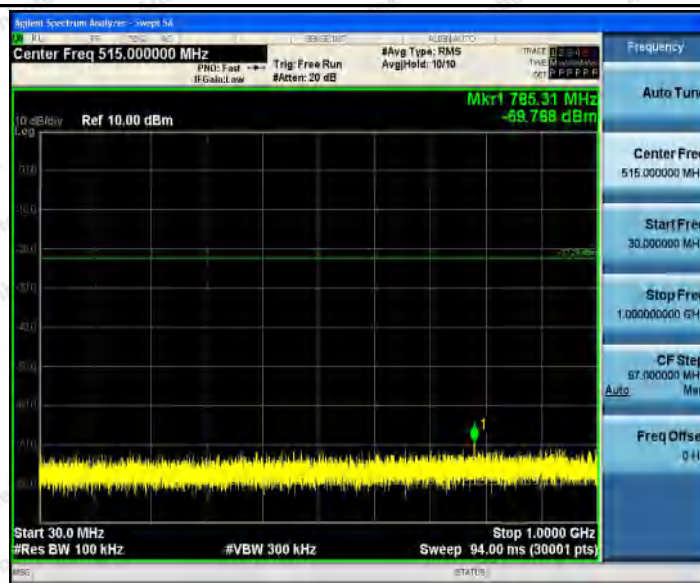
11G_Ant2_2462_1000~26500



11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000



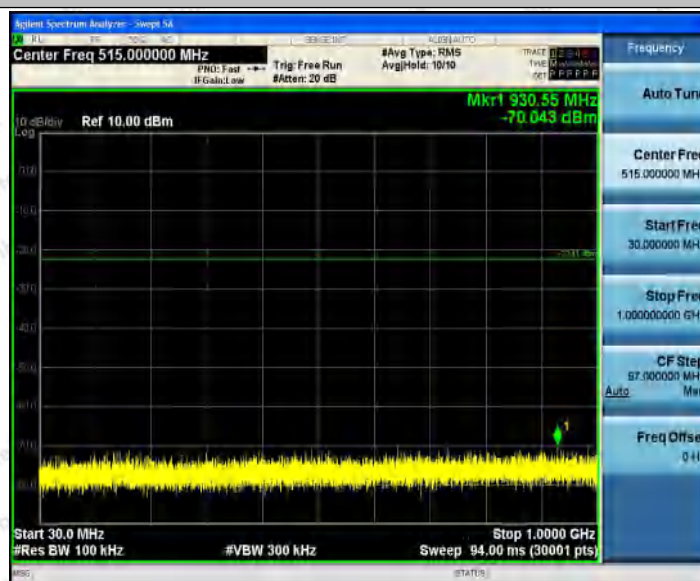
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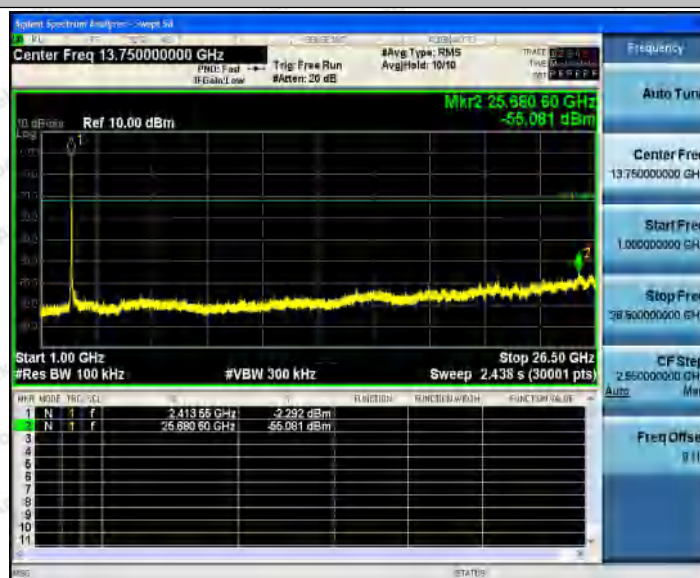
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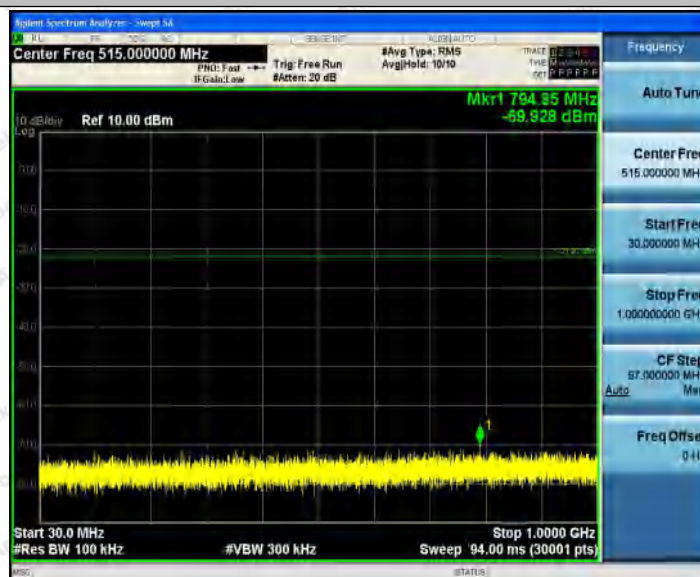
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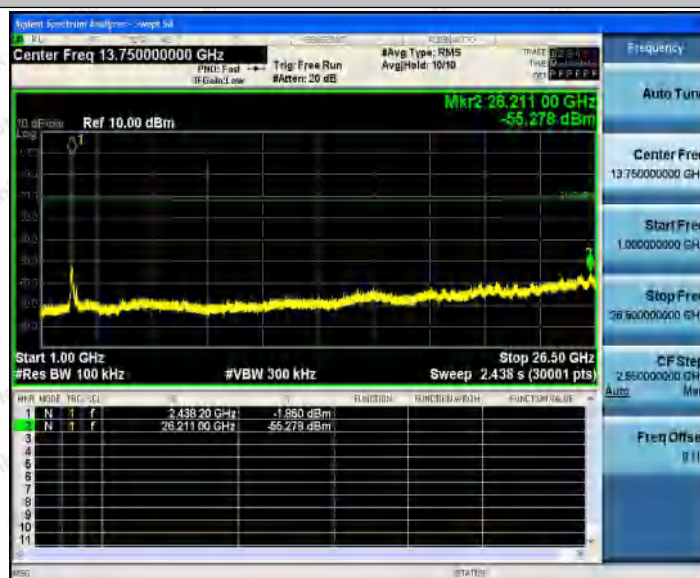
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11N20_Ant1_2437_1000~26500



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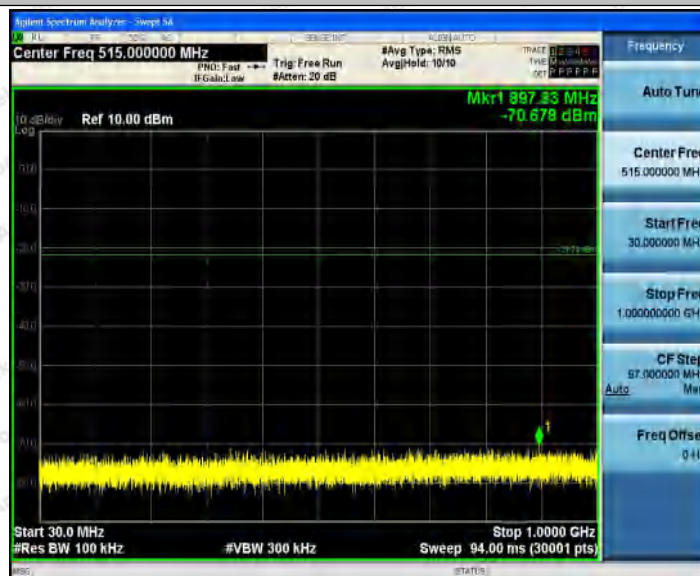
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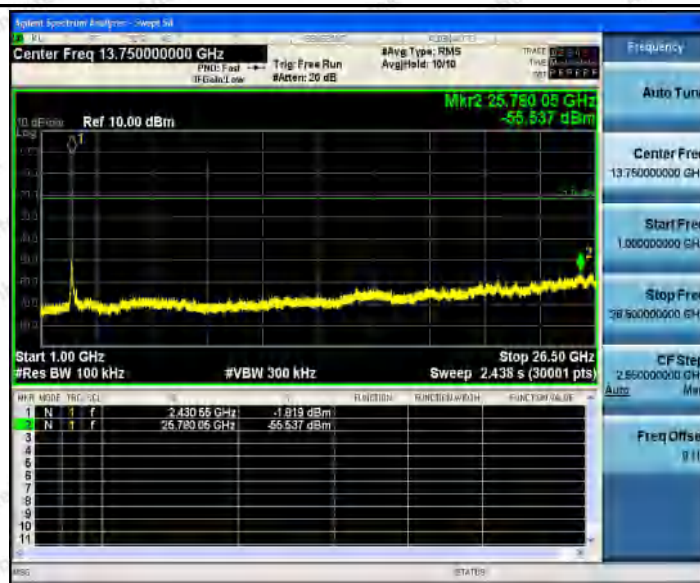
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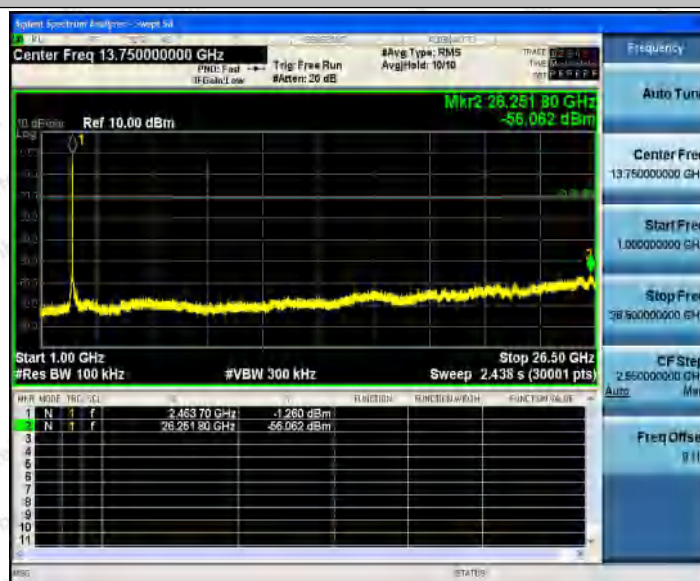
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11N20_Ant1_2462_1000~26500



11N20_Ant2_2462_0~Reference



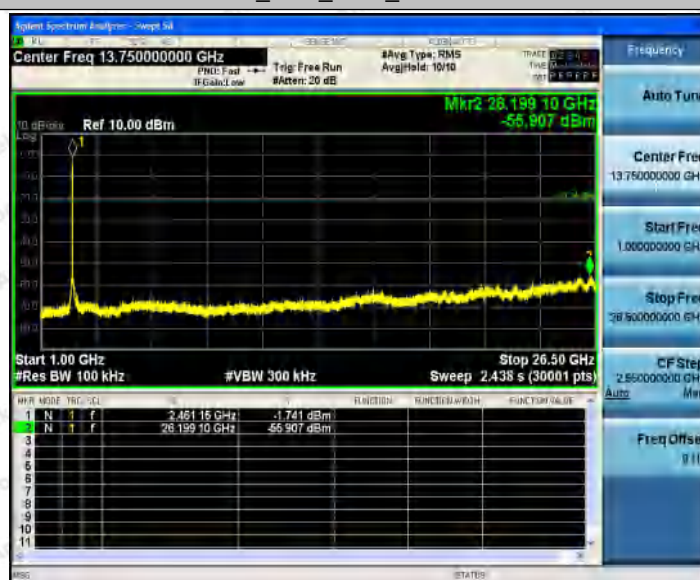
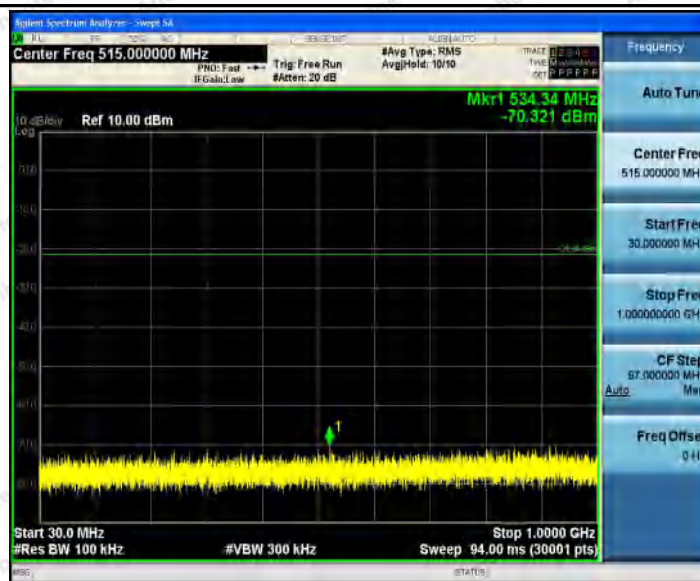
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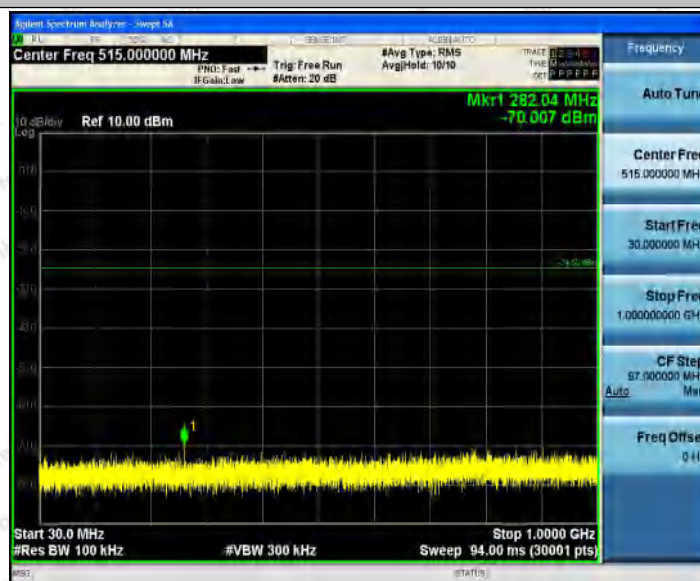
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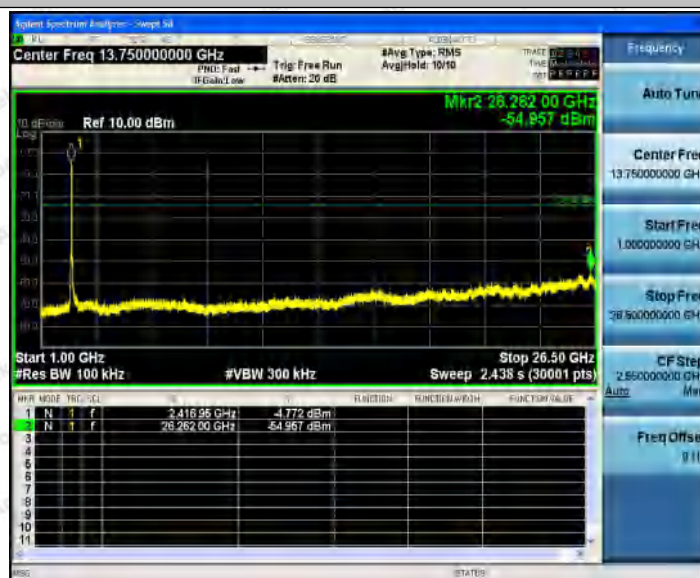
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11N40_Ant1_2422_30~1000



11N40_Ant1_2422_1000~26500



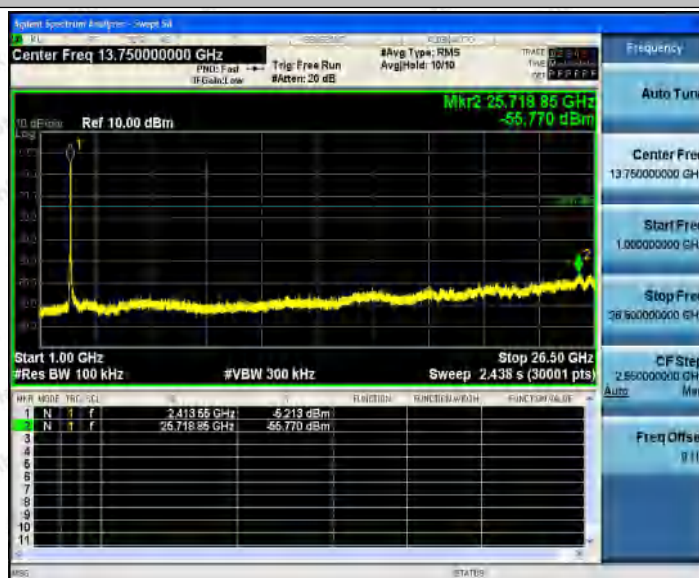
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11N40_Ant2_2422_30~1000



11N40_Ant2_2422_1000~26500



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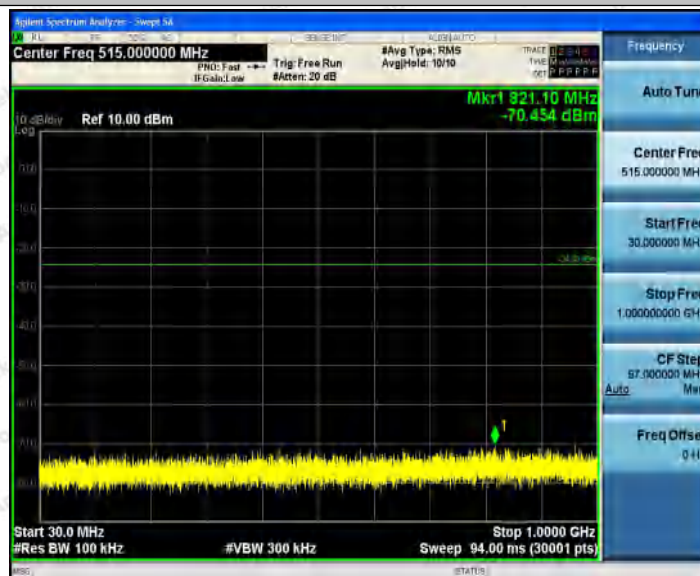
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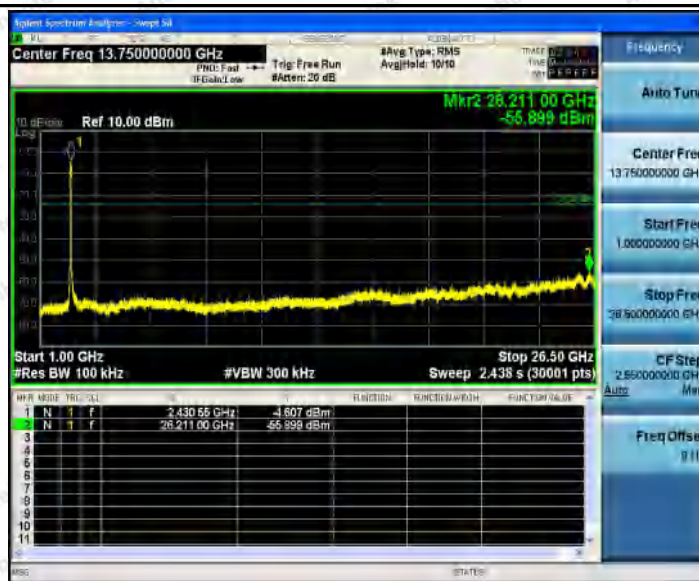
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11N40_Ant1_2437_30~1000



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11N40_Ant2_2437_30~1000



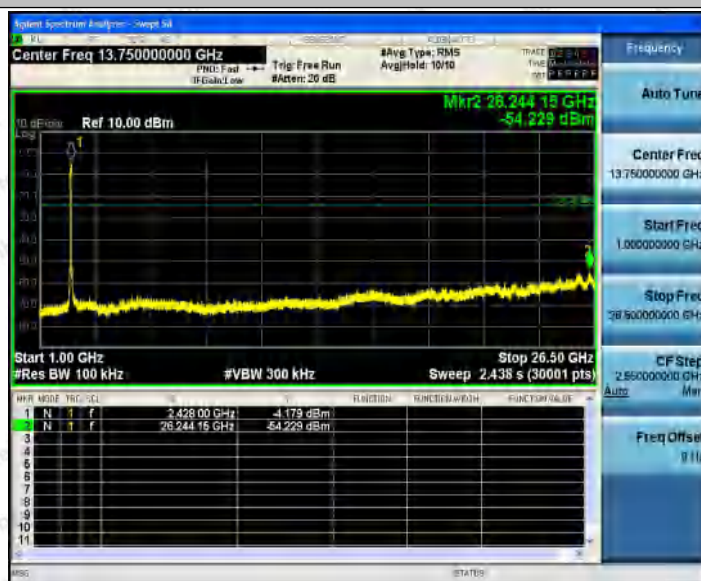
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11N40_Ant2_2437_1000~26500



11N40_Ant1_2452_0~Reference



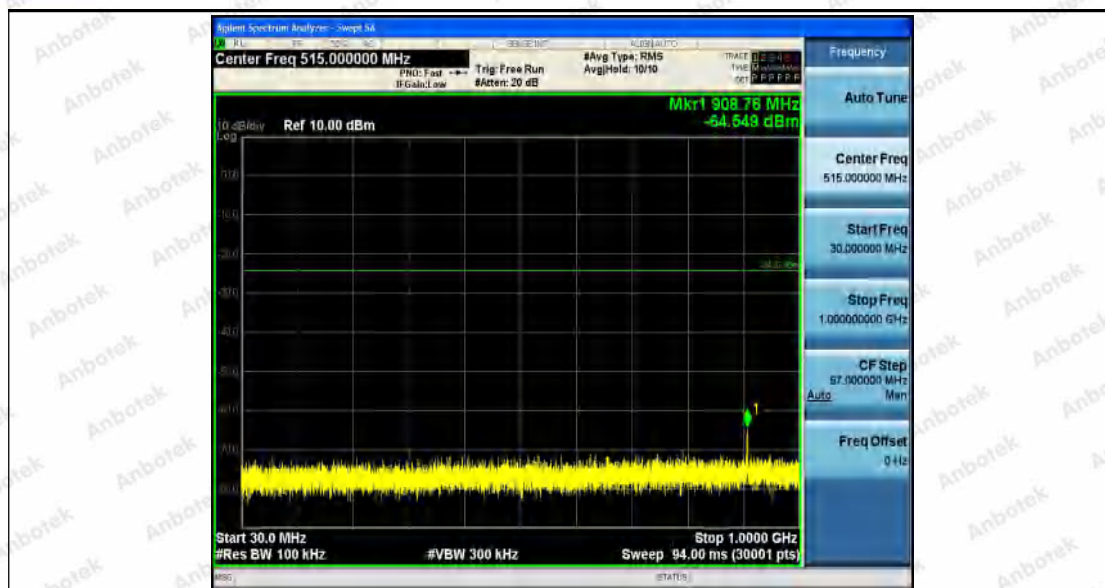
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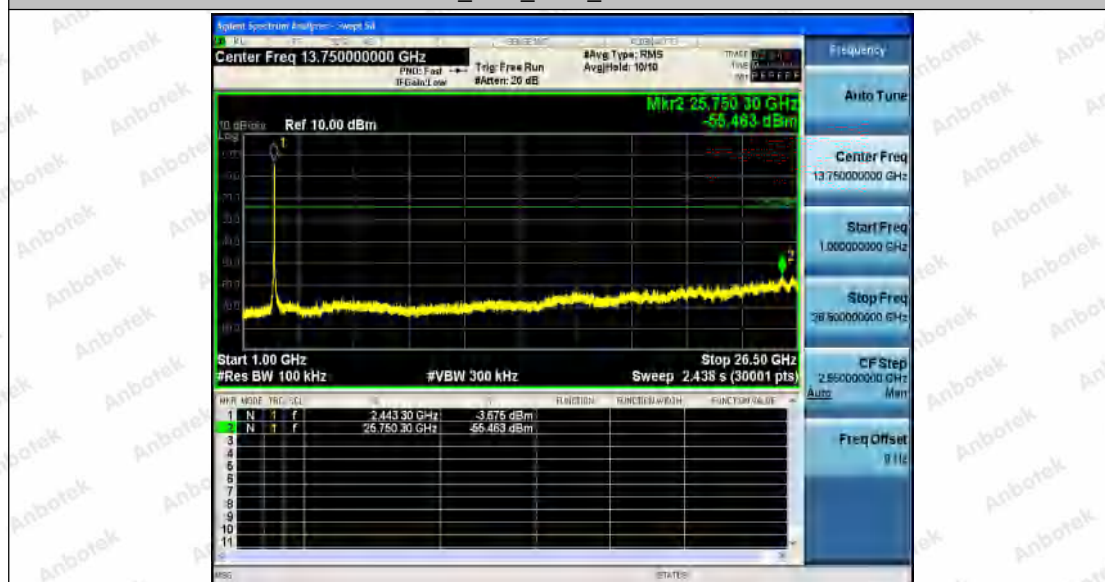
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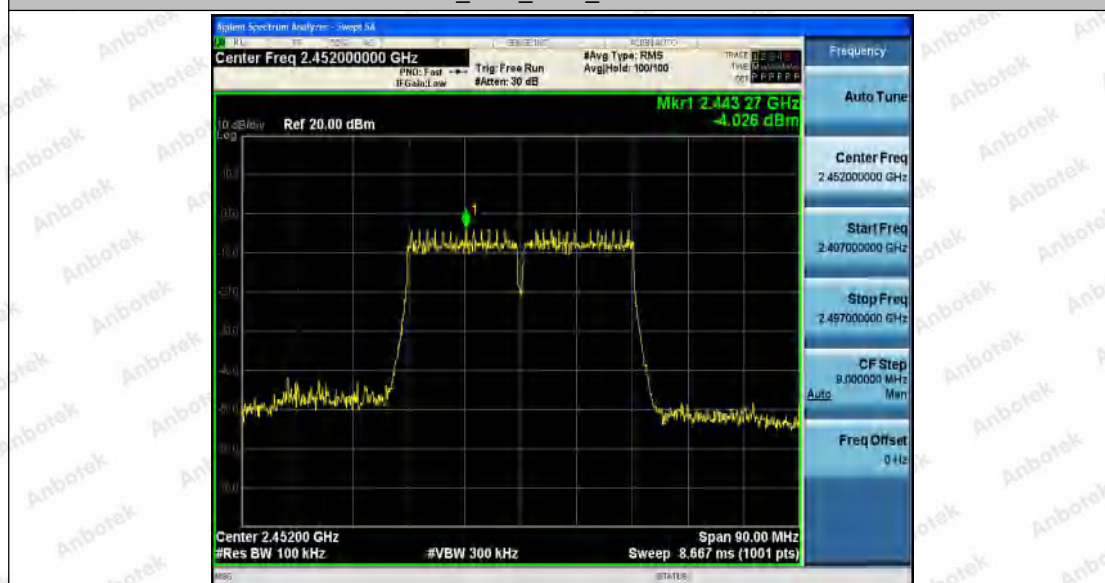
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11N40_Ant1_2452_1000~26500



11N40_Ant2_2452_0~Reference



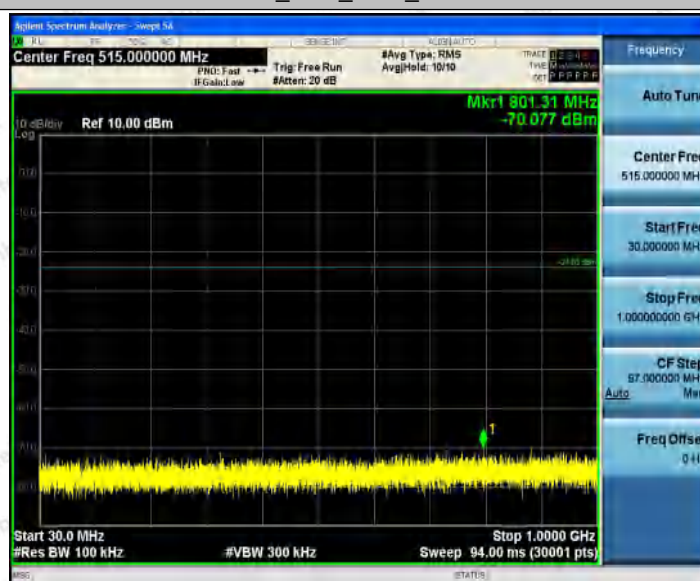
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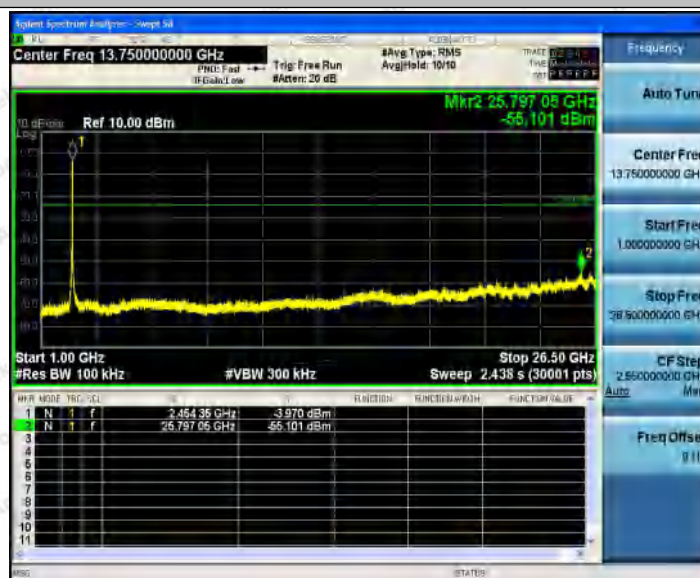
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11N40_Ant2_2452_30~1000



11N40_Ant2_2452_1000~26500



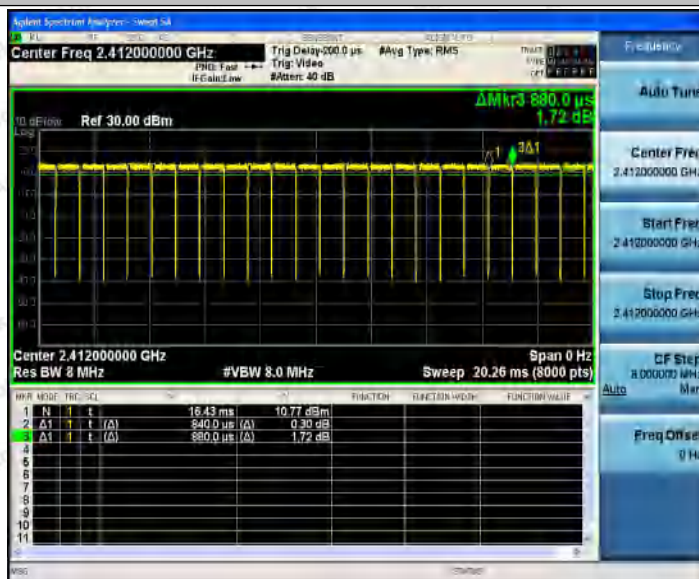
Appendix G: Duty Cycle

Test Result

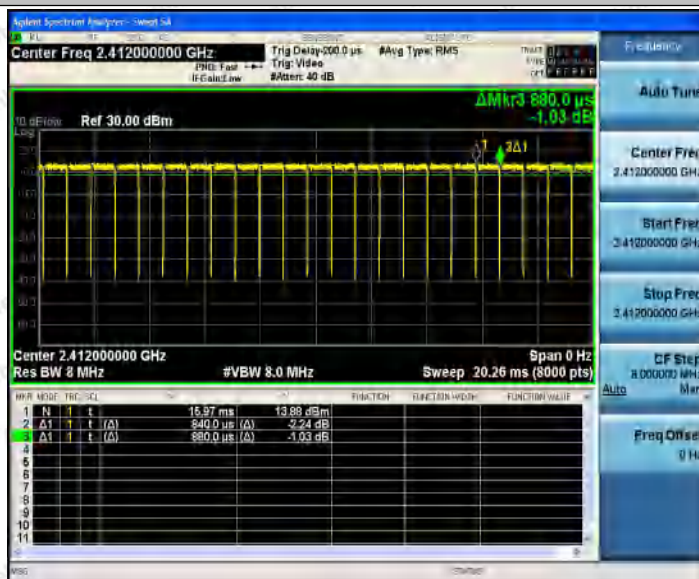
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	0.84	0.88	95.45	---	PASS
	Ant2	2412	0.84	0.88	95.45	---	PASS
	Ant1	2437	0.85	0.88	96.59	---	PASS
	Ant2	2437	0.84	0.88	95.45	---	PASS
	Ant1	2462	0.85	0.88	96.59	---	PASS
	Ant2	2462	0.84	0.88	95.45	---	PASS
11G	Ant1	2412	0.17	0.22	77.27	---	PASS
	Ant2	2412	0.17	0.21	80.95	---	PASS
	Ant1	2437	0.17	0.22	77.27	---	PASS
	Ant2	2437	0.17	0.21	80.95	---	PASS
	Ant1	2462	0.17	0.21	80.95	---	PASS
	Ant2	2462	0.17	0.22	77.27	---	PASS
11N20	Ant1	2412	0.16	0.21	76.19	---	PASS
	Ant2	2412	0.16	0.20	80.00	---	PASS
	Ant1	2437	0.16	0.21	76.19	---	PASS
	Ant2	2437	0.16	0.21	76.19	---	PASS
	Ant1	2462	0.16	0.20	80.00	---	PASS
	Ant2	2462	0.16	0.21	76.19	---	PASS
11N40	Ant1	2422	0.10	0.14	71.43	---	PASS
	Ant2	2422	0.10	0.15	66.67	---	PASS
	Ant1	2437	0.10	0.14	71.43	---	PASS
	Ant2	2437	0.10	0.14	71.43	---	PASS
	Ant1	2452	0.10	0.14	71.43	---	PASS
	Ant2	2452	0.10	0.14	71.43	---	PASS

Test Graphs

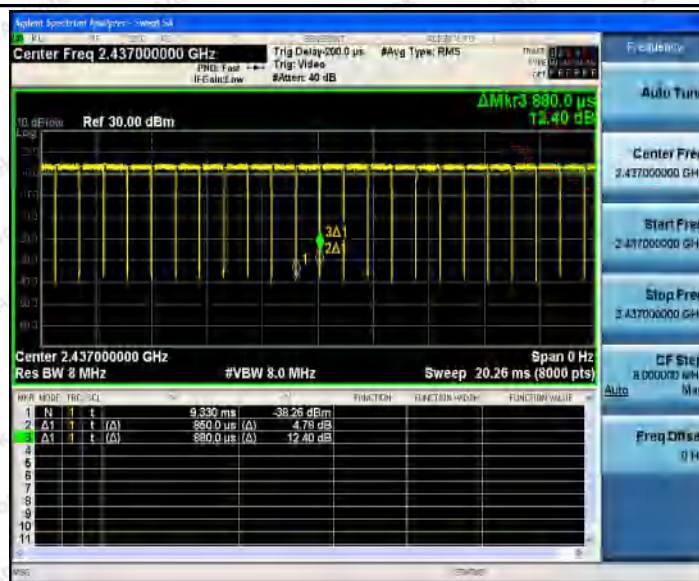
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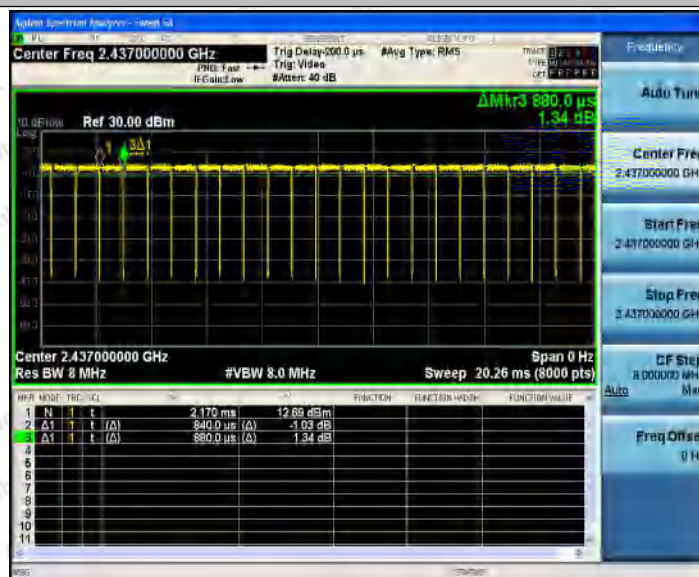
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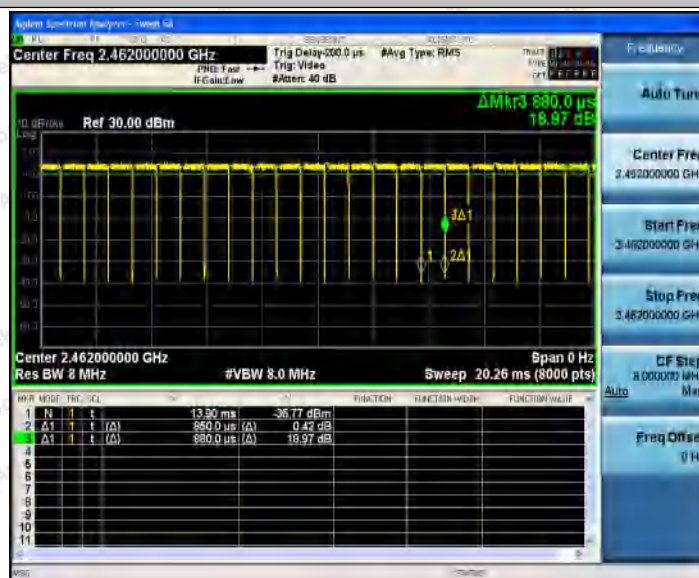
11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



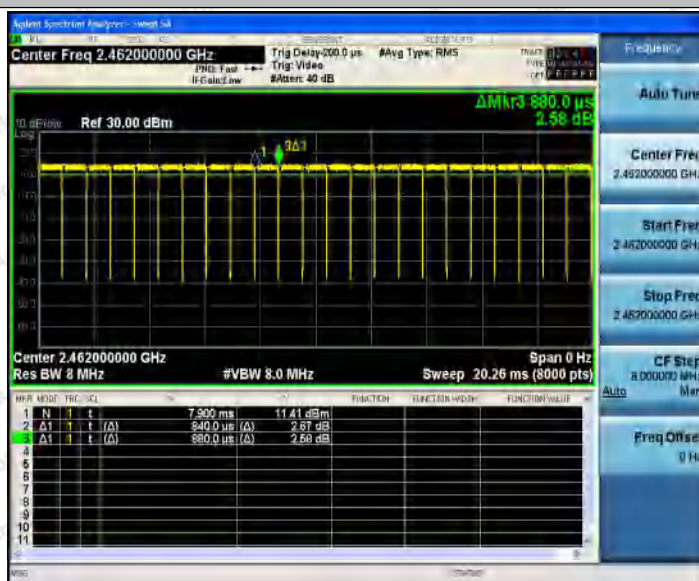
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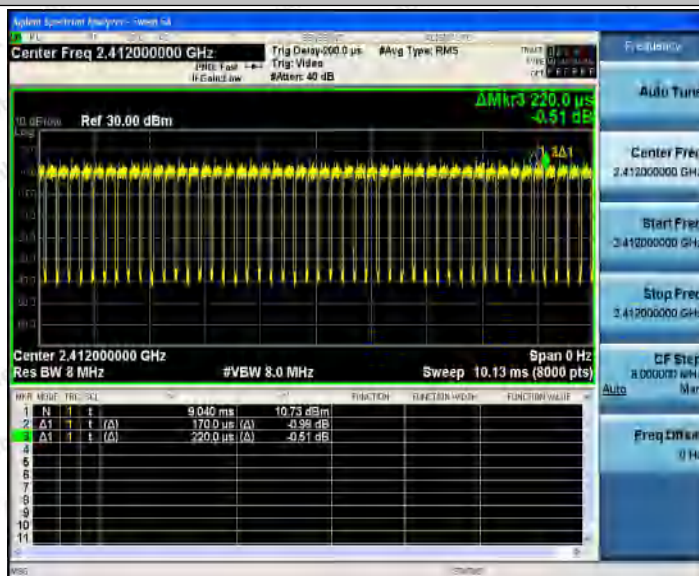
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11B_Ant2_2462



11G_Ant1_2412



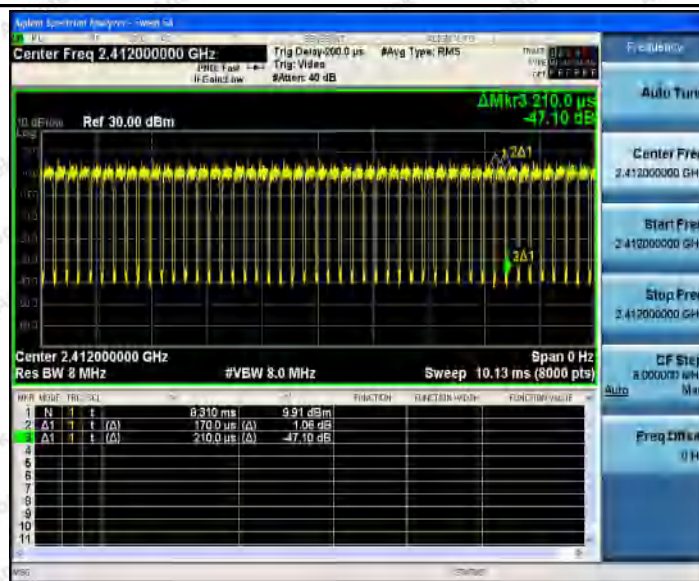
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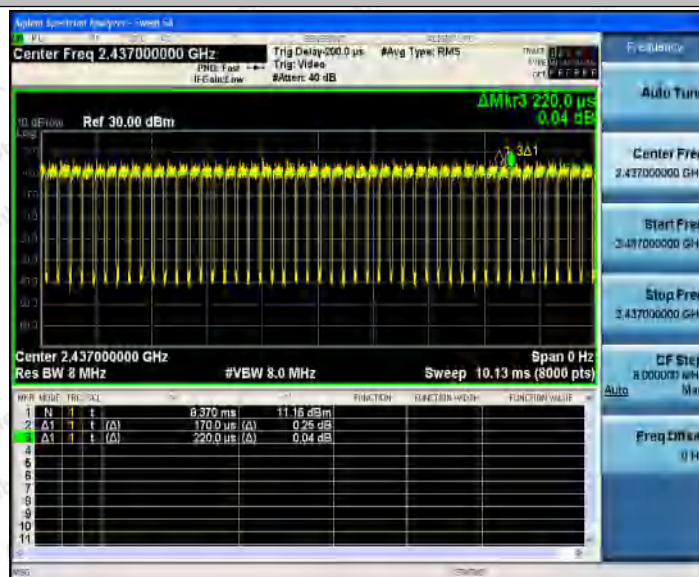
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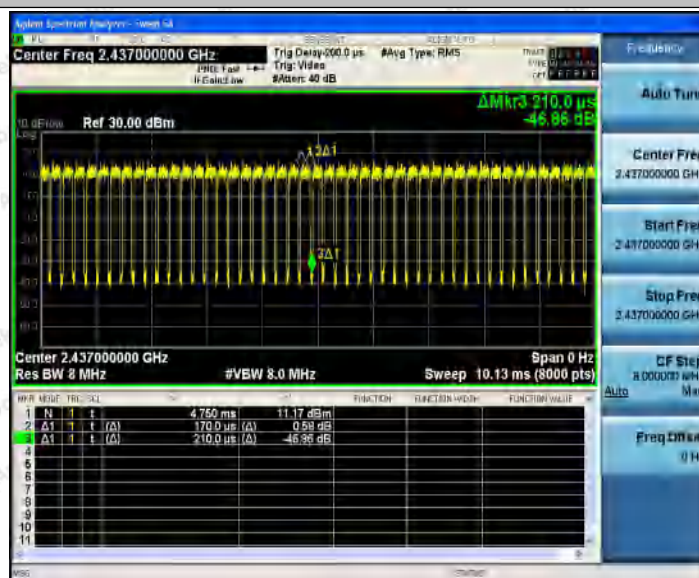
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11G_Ant1_2437



11G_Ant2_2437



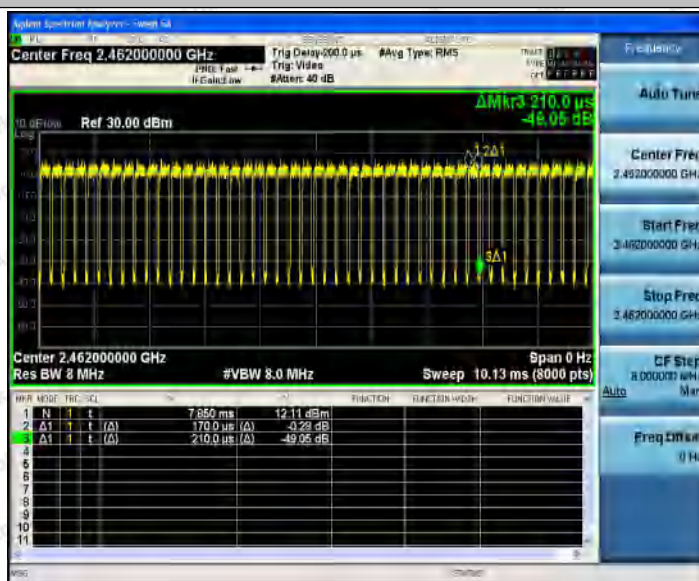
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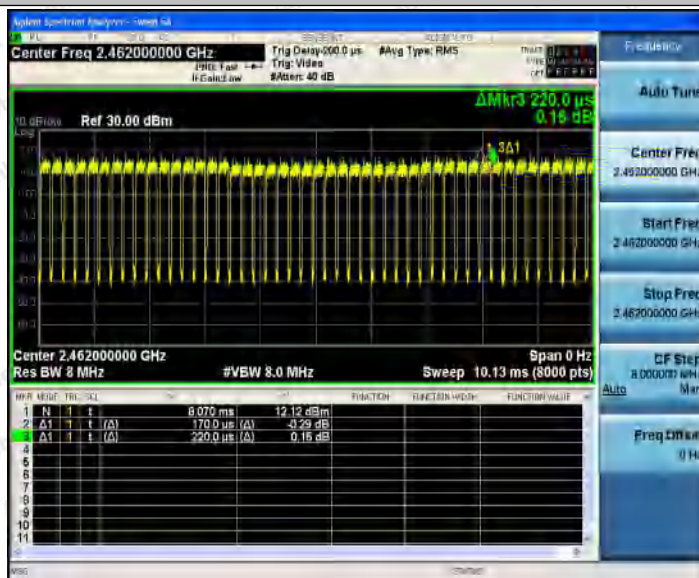
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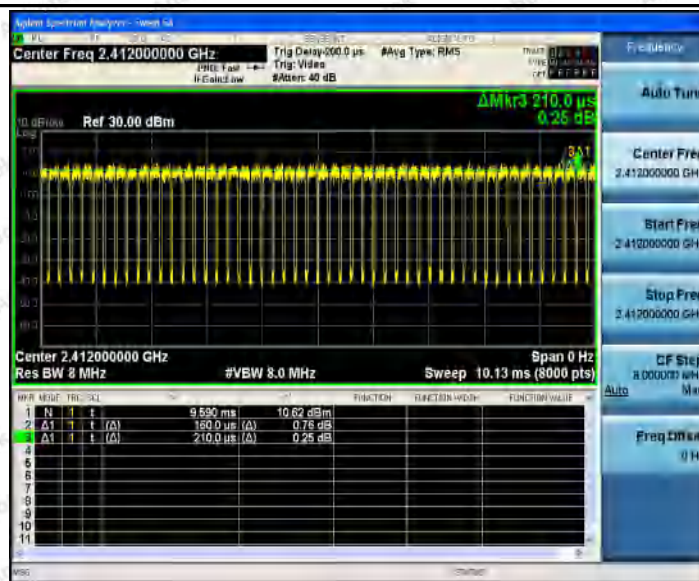
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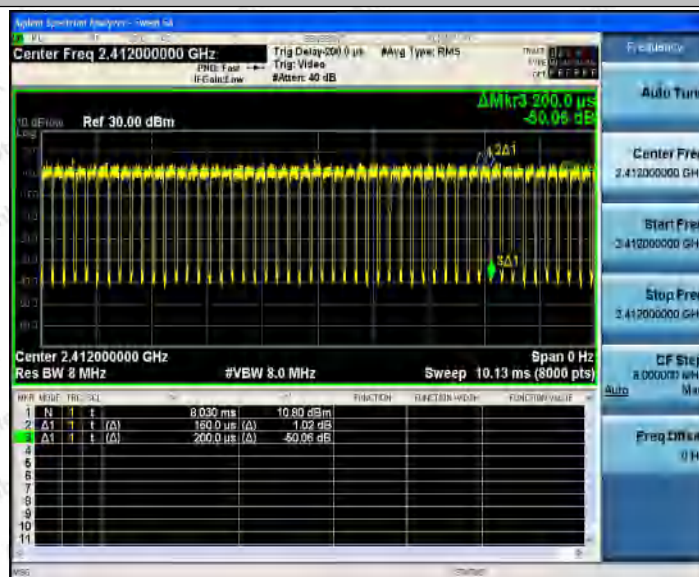
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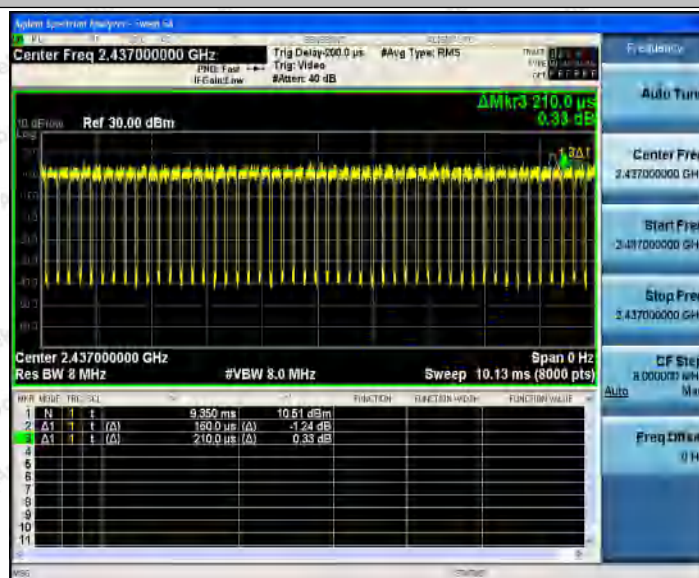
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11N20_Ant2_2412



11N20_Ant1_2437



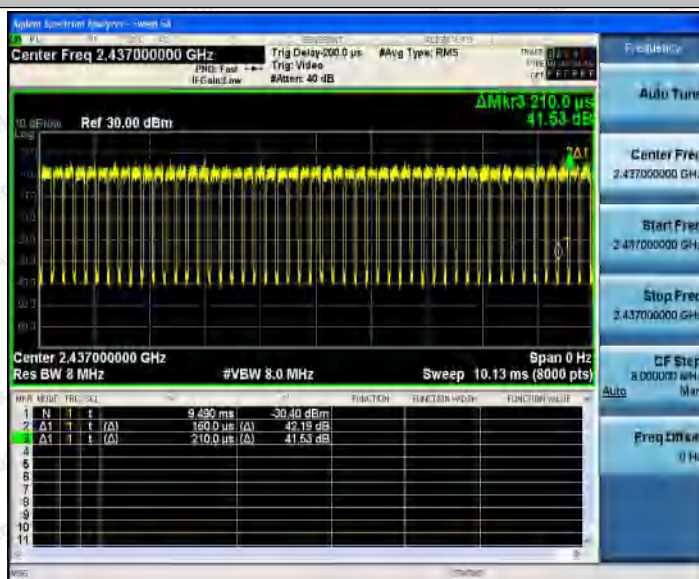
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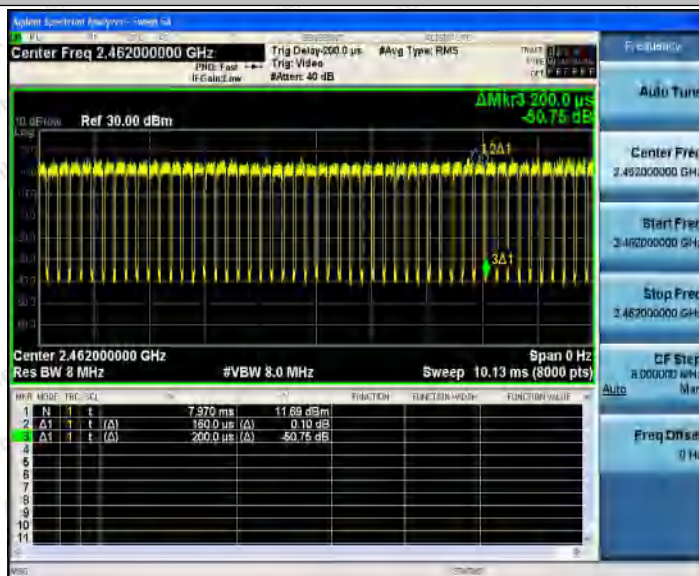
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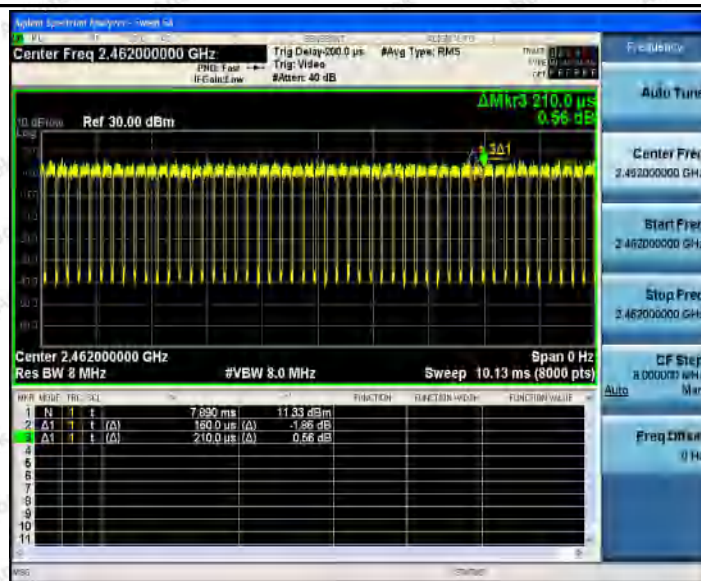
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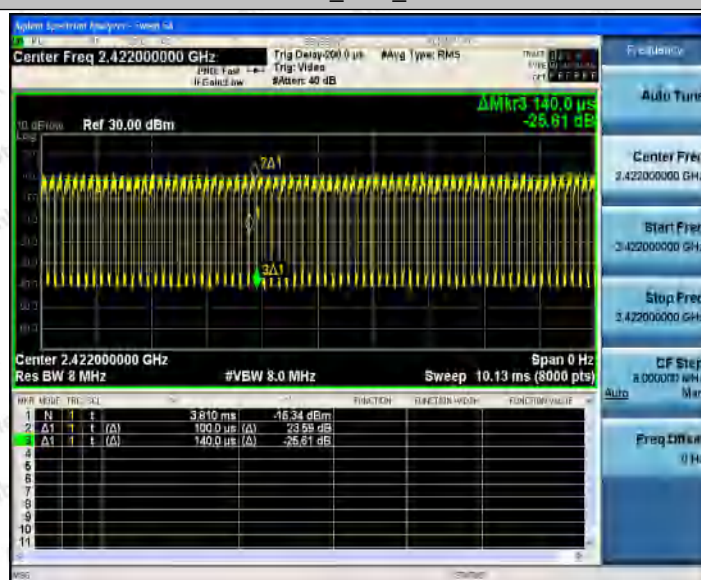
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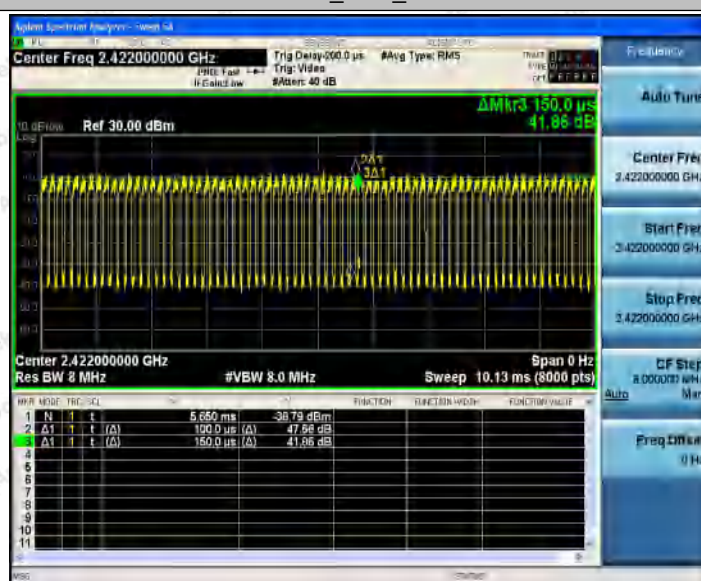
11N20_Ant2_2462



11N40_Ant1_2422



11N40_Ant2_2422



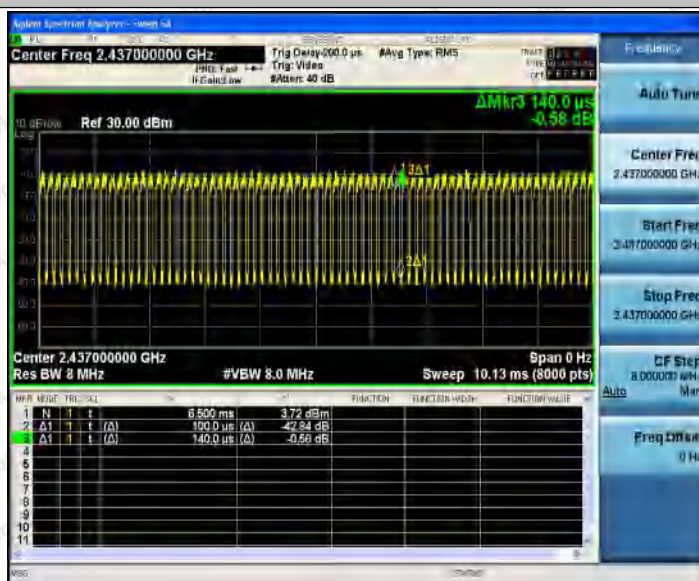
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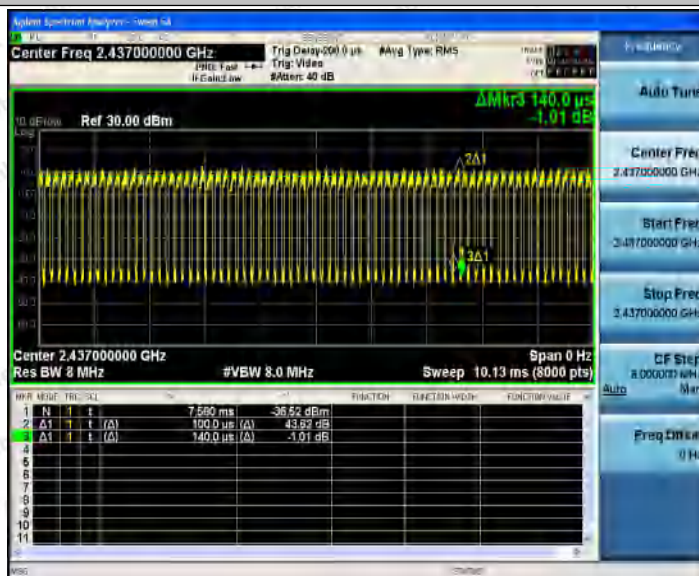
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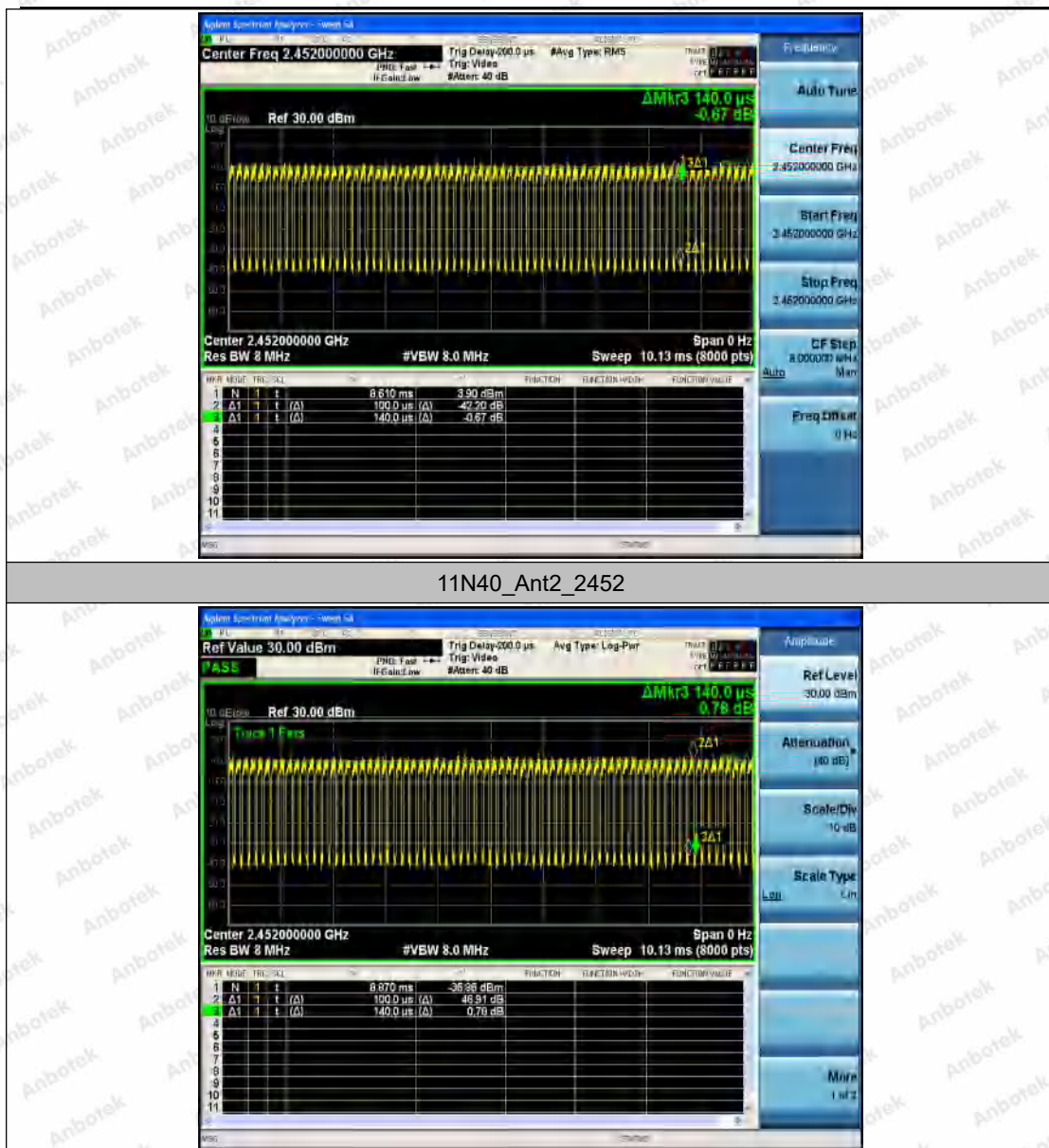
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



---End---