

Appendix Test Data

Report No.:	18220WC20031102	Test Sample No.:	1-2-2
Start Test Date:	2022.2.22	Finish Test Date:	2022.2.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	56%
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	8.720	2407.720	2416.440	≥0.5	PASS
	Ant2	2412	8.960	2407.440	2416.400	≥0.5	PASS
	Ant1	2437	9.000	2432.440	2441.440	≥0.5	PASS
	Ant2	2437	9.000	2432.720	2441.720	≥0.5	PASS
	Ant1	2462	8.840	2457.720	2466.560	≥0.5	PASS
	Ant2	2462	8.400	2457.760	2466.160	≥0.5	PASS
11G	Ant1	2412	17.720	2403.160	2420.880	≥0.5	PASS
	Ant2	2412	16.440	2403.760	2420.200	≥0.5	PASS
	Ant1	2437	16.400	2428.760	2445.160	≥0.5	PASS
	Ant2	2437	16.440	2428.760	2445.200	≥0.5	PASS
	Ant1	2462	16.480	2453.760	2470.240	≥0.5	PASS
	Ant2	2462	16.480	2453.760	2470.240	≥0.5	PASS
11N20	Ant1	2412	17.760	2403.160	2420.920	≥0.5	PASS
	Ant2	2412	17.760	2403.120	2420.880	≥0.5	PASS
	Ant1	2437	17.720	2428.200	2445.920	≥0.5	PASS
	Ant2	2437	17.800	2428.120	2445.920	≥0.5	PASS
	Ant1	2462	17.760	2453.160	2470.920	≥0.5	PASS
	Ant2	2462	17.760	2453.160	2470.920	≥0.5	PASS
11N40	Ant1	2422	36.480	2403.760	2440.240	≥0.5	PASS
	Ant2	2422	36.480	2403.760	2440.240	≥0.5	PASS
	Ant1	2437	36.540	2418.760	2455.300	≥0.5	PASS
	Ant2	2437	36.480	2418.760	2455.240	≥0.5	PASS
	Ant1	2452	36.480	2433.820	2470.300	≥0.5	PASS
	Ant2	2452	36.540	2433.760	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



11N40_Ant1_2422



11N40_Ant2_2422



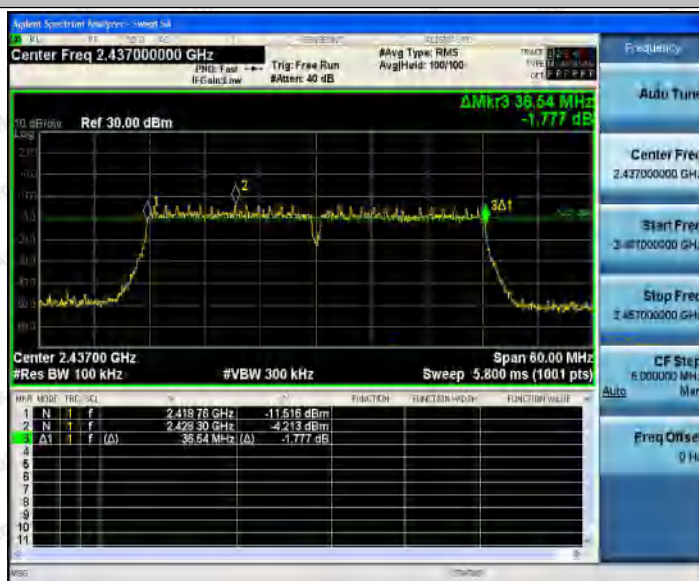
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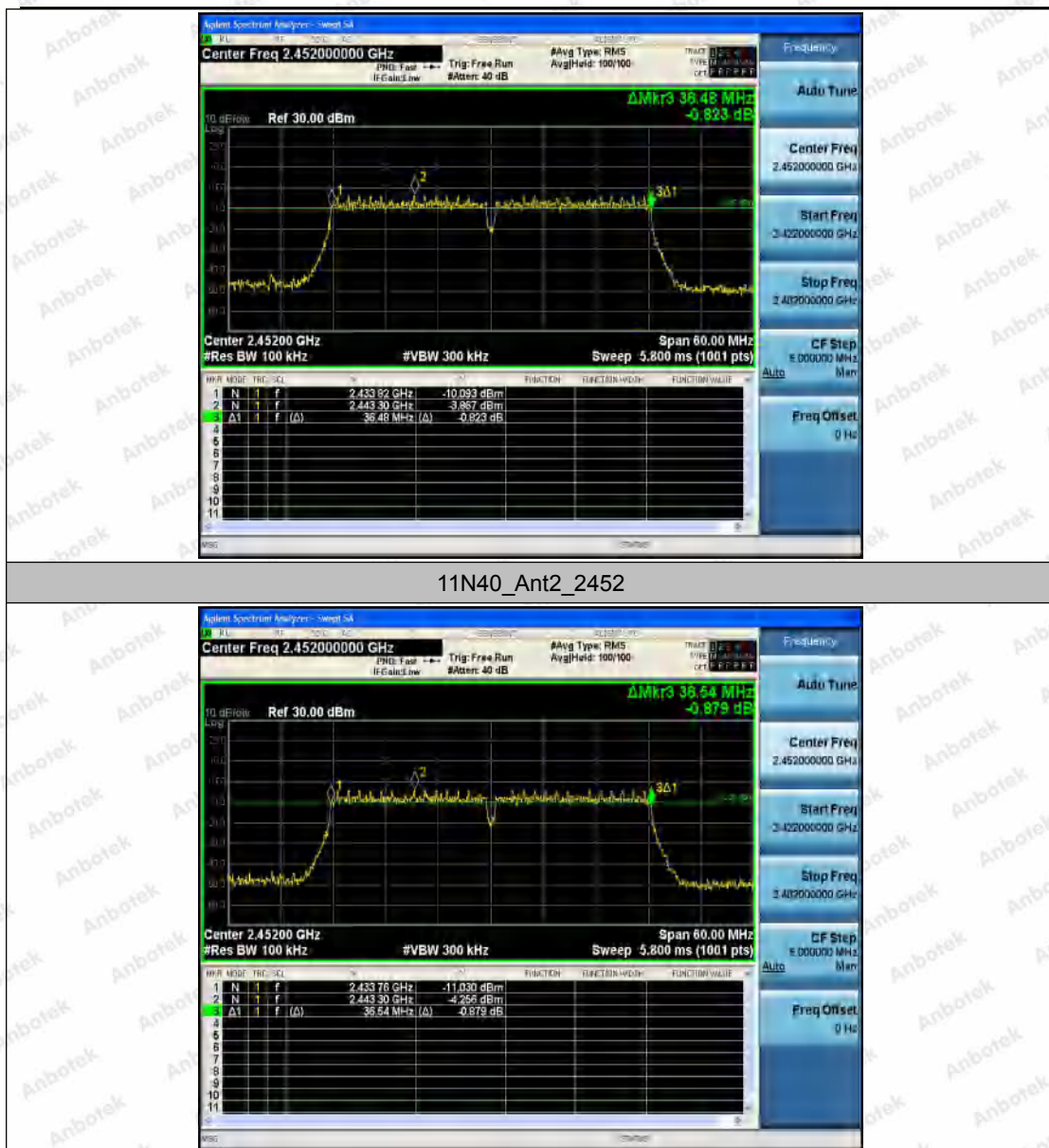
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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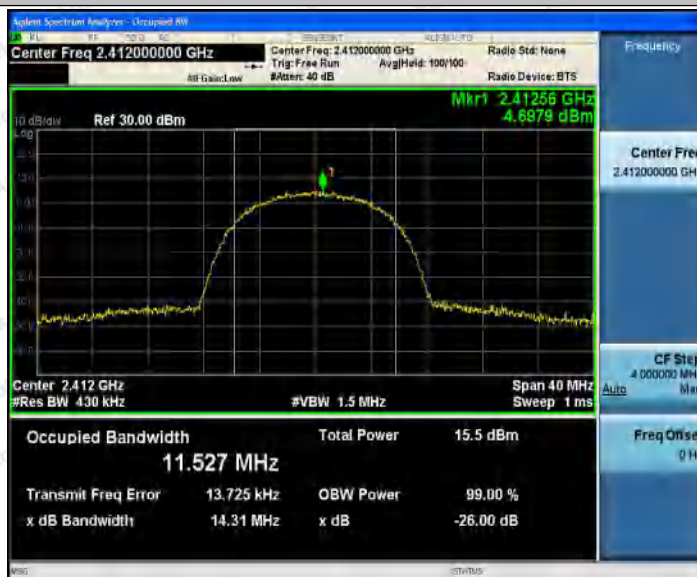
Appendix B: Occupied Channel Bandwidth

Test Result

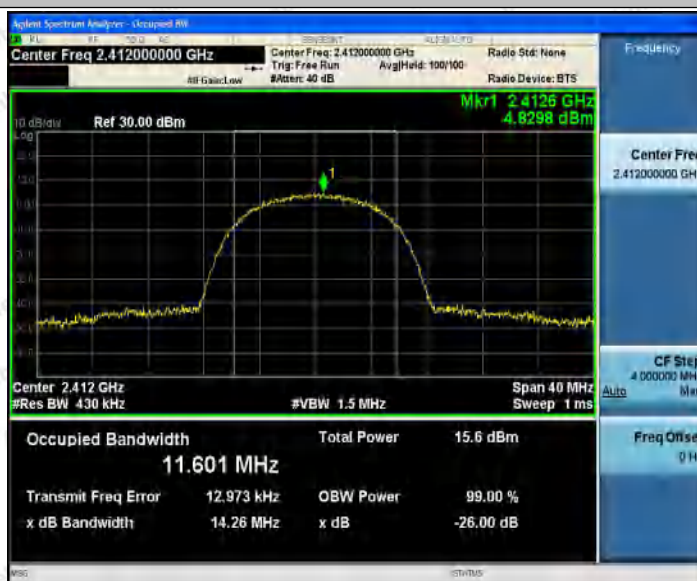
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.527	2406.250	2417.777	---	PASS
	Ant2	2412	11.601	2406.212	2417.813	---	PASS
	Ant1	2437	11.523	2431.240	2442.763	---	PASS
	Ant2	2437	11.568	2431.211	2442.779	---	PASS
	Ant1	2462	11.563	2456.273	2467.836	---	PASS
	Ant2	2462	11.561	2456.273	2467.834	---	PASS
11G	Ant1	2412	18.198	2402.946	2421.144	---	PASS
	Ant2	2412	16.926	2403.584	2420.510	---	PASS
	Ant1	2437	16.922	2428.568	2445.490	---	PASS
	Ant2	2437	16.898	2428.576	2445.474	---	PASS
	Ant1	2462	16.905	2453.621	2470.526	---	PASS
	Ant2	2462	16.886	2453.628	2470.514	---	PASS
11N20	Ant1	2412	18.090	2402.939	2421.029	---	PASS
	Ant2	2412	18.163	2402.931	2421.094	---	PASS
	Ant1	2437	18.184	2427.871	2446.055	---	PASS
	Ant2	2437	18.061	2427.983	2446.044	---	PASS
	Ant1	2462	18.169	2452.960	2471.129	---	PASS
	Ant2	2462	18.109	2452.956	2471.065	---	PASS
11N40	Ant1	2422	36.306	2403.846	2440.152	---	PASS
	Ant2	2422	36.294	2403.850	2440.144	---	PASS
	Ant1	2437	36.380	2418.818	2455.198	---	PASS
	Ant2	2437	36.363	2418.847	2455.210	---	PASS
	Ant1	2452	36.336	2433.887	2470.223	---	PASS
	Ant2	2452	36.367	2433.891	2470.258	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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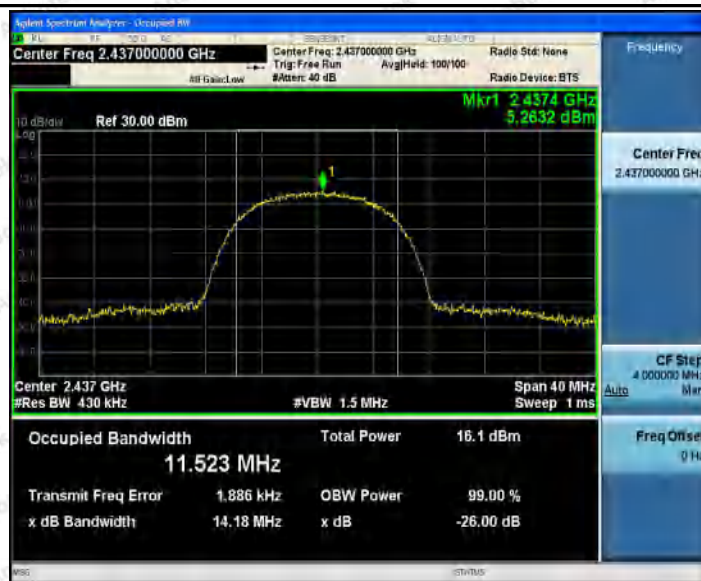
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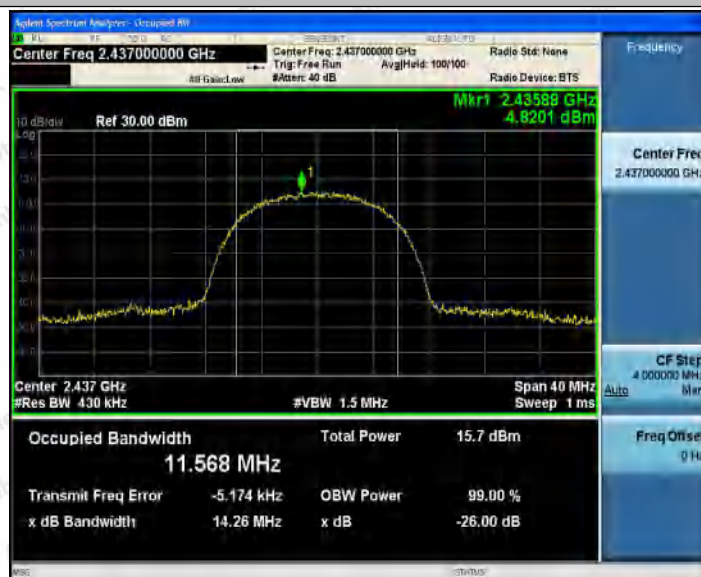
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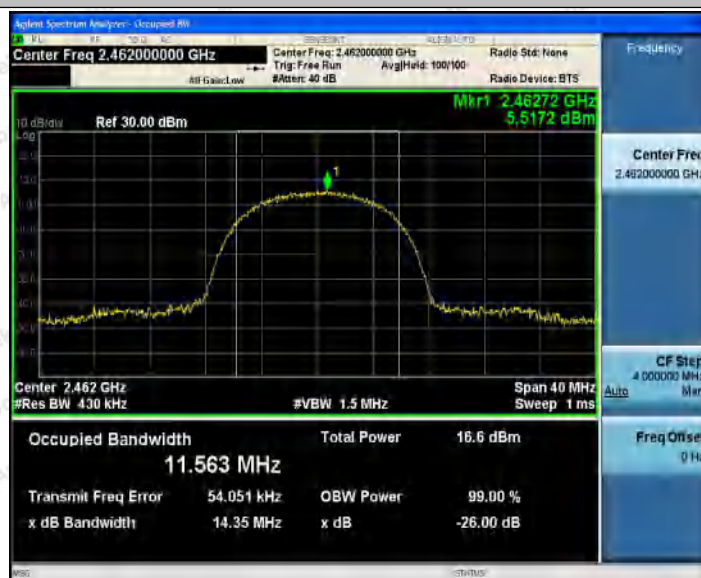
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11B_Ant2_2437



11B_Ant1_2462



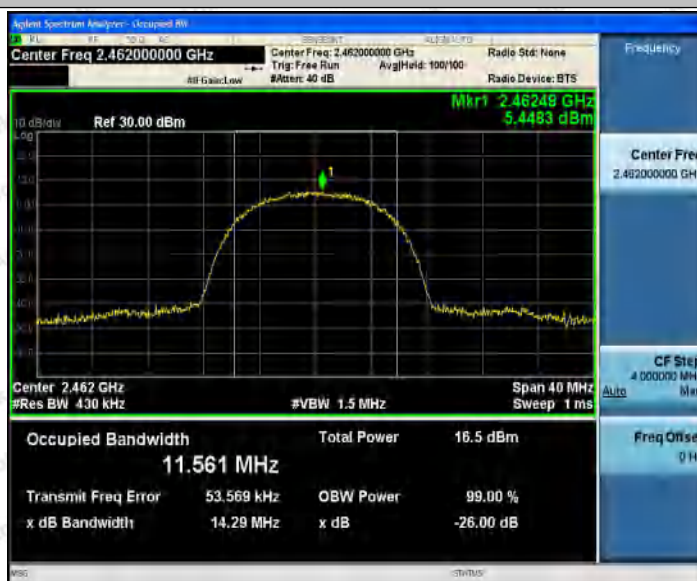
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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



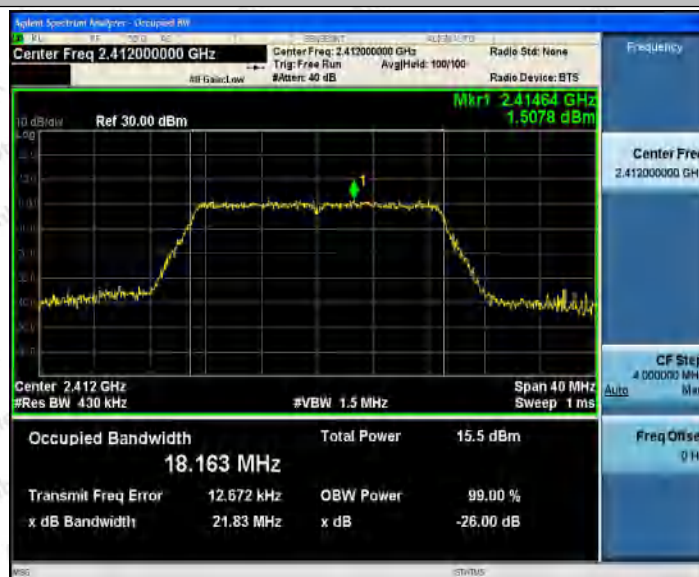
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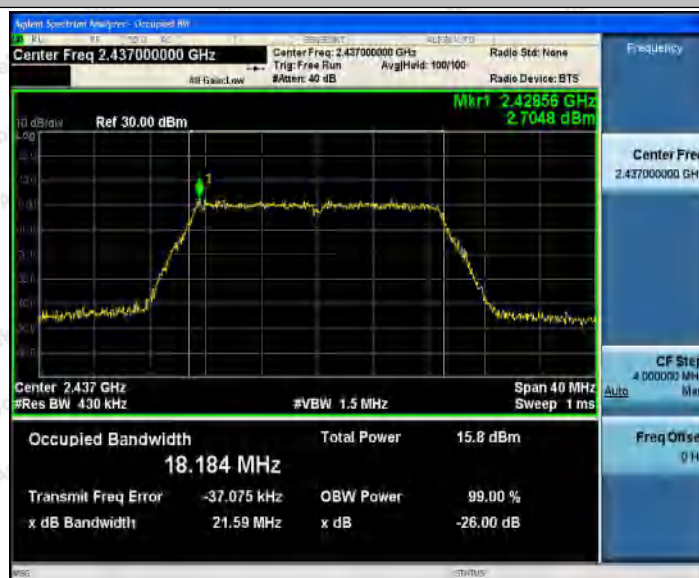
11N20_Ant1_2412



11N20_Ant2_2412



11N20_Ant1_2437



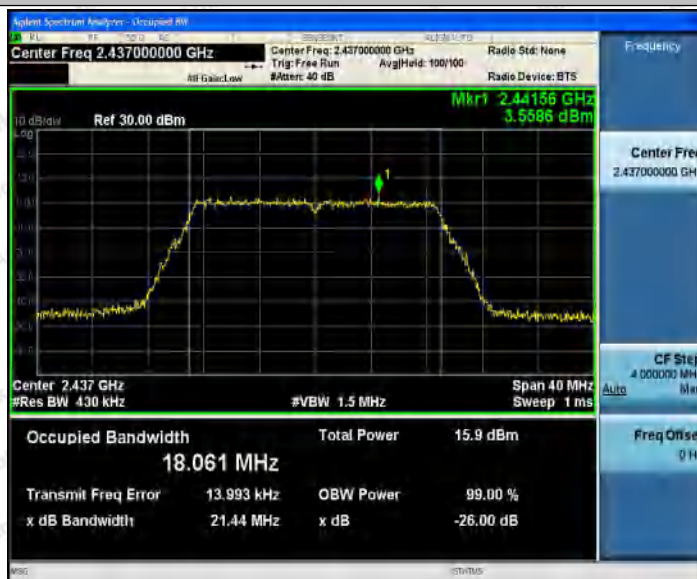
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11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462



11N40_Ant1_2422



11N40_Ant2_2422



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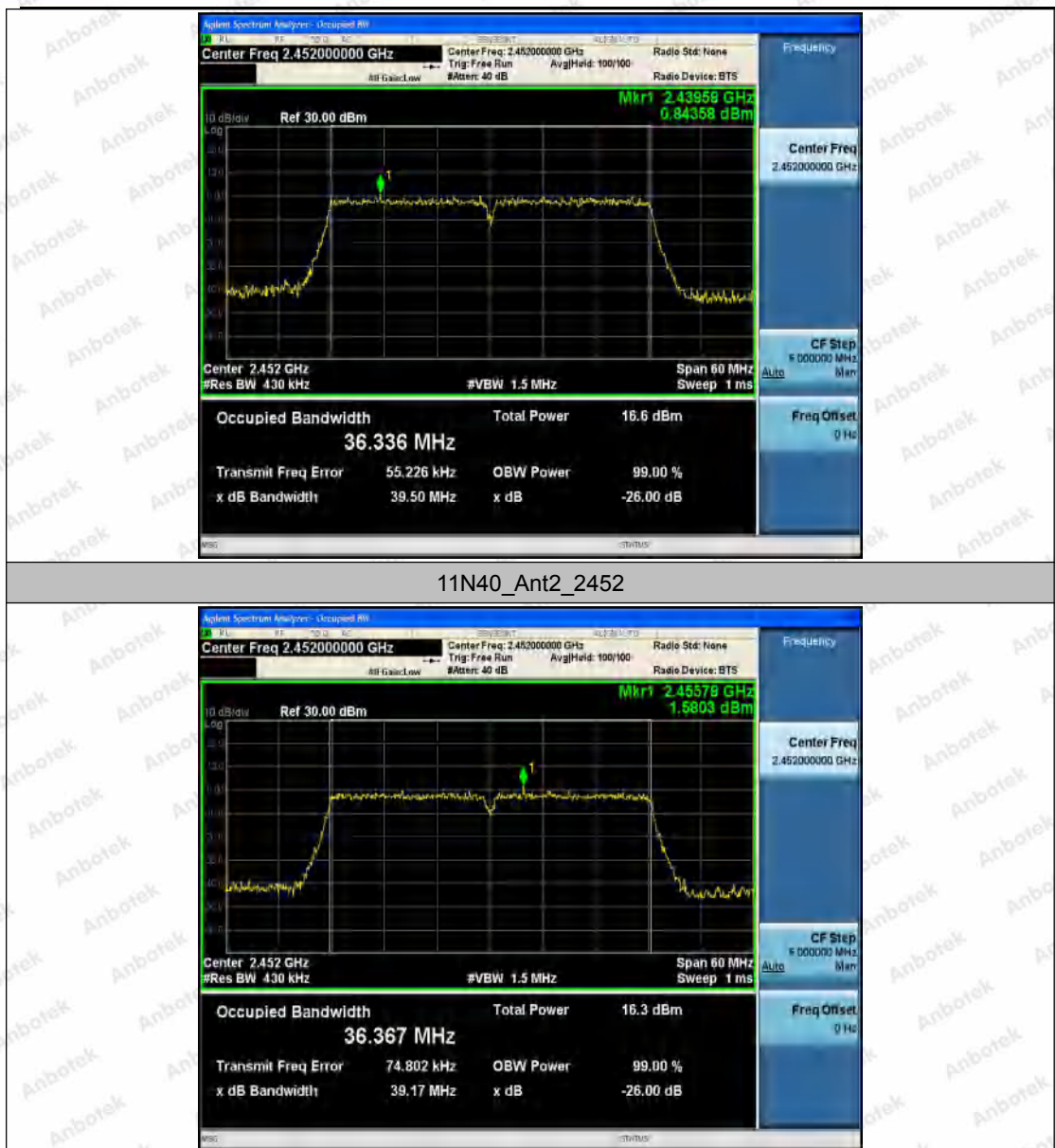
11N40_Ant1_2437



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	14.91	≤30	PASS
	Ant2	2412	14.94	≤30	PASS
	Ant1	2437	15.48	≤30	PASS
	Ant2	2437	15.35	≤30	PASS
	Ant1	2462	16.12	≤30	PASS
	Ant2	2462	15.98	≤30	PASS
11G	Ant1	2412	16.20	≤30	PASS
	Ant2	2412	16.22	≤30	PASS
	Ant1	2437	16.78	≤30	PASS
	Ant2	2437	16.52	≤30	PASS
	Ant1	2462	17.28	≤30	PASS
	Ant2	2462	17.47	≤30	PASS
11N20	Ant1	2412	16.00	≤30	PASS
	Ant2	2412	15.90	≤30	PASS
	Ant1	2437	16.59	≤30	PASS
	Ant2	2437	16.72	≤30	PASS
	Ant1	2462	17.23	≤30	PASS
	Ant2	2462	17.35	≤30	PASS
11N40	Ant1	2422	13.83	≤30	PASS
	Ant2	2422	13.92	≤30	PASS
	Ant1	2437	13.83	≤30	PASS
	Ant2	2437	13.96	≤30	PASS
	Ant1	2452	14.68	≤30	PASS
	Ant2	2452	14.34	≤30	PASS

MIMO:

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20	2412	18.96	≤30	PASS
	2437	19.67	≤30	PASS
	2462	20.30	≤30	PASS
11N40	2422	16.89	≤30	PASS
	2437	16.91	≤30	PASS
	2452	17.52	≤30	PASS

Appendix D: Maximum power spectral density

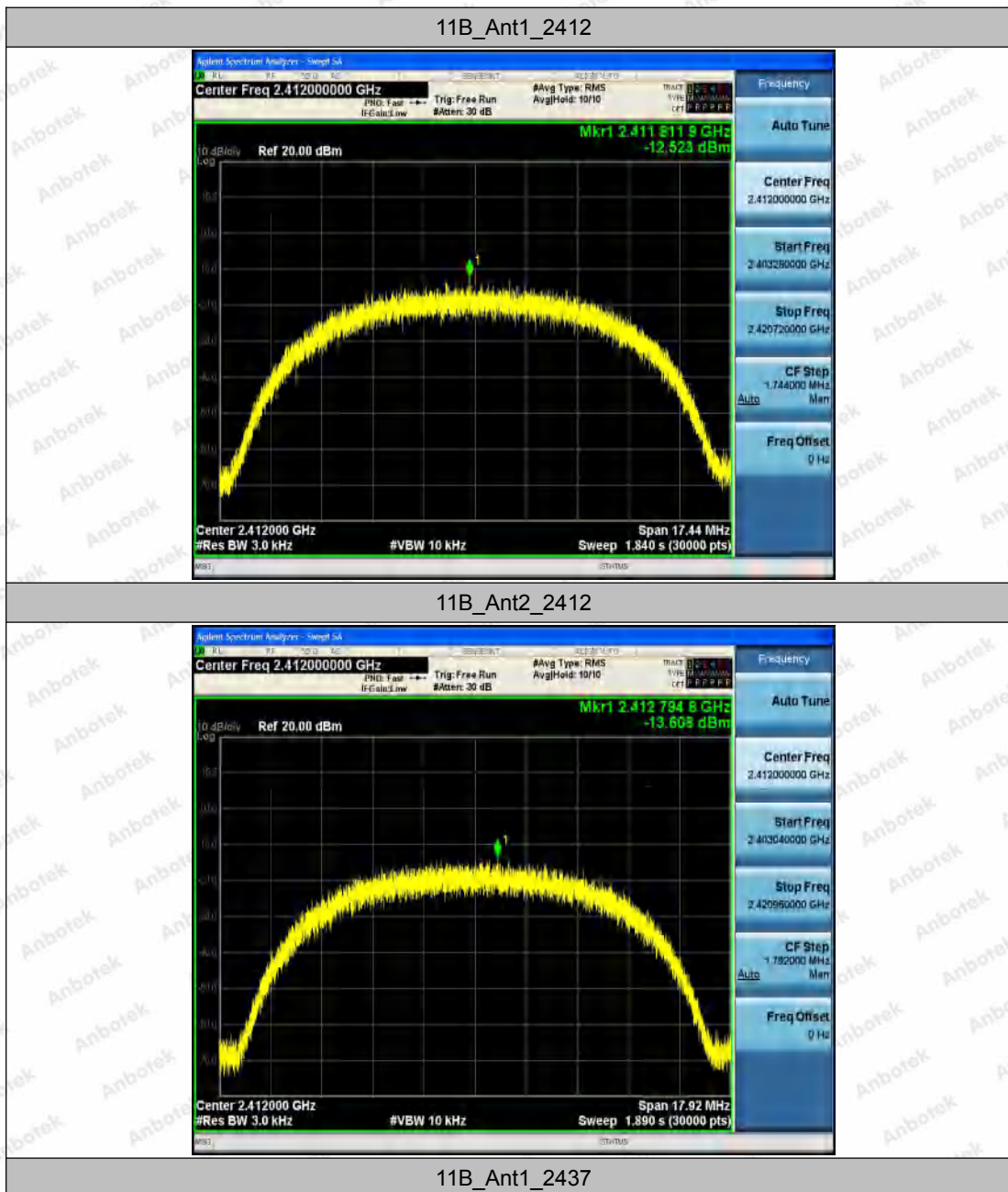
Test Result

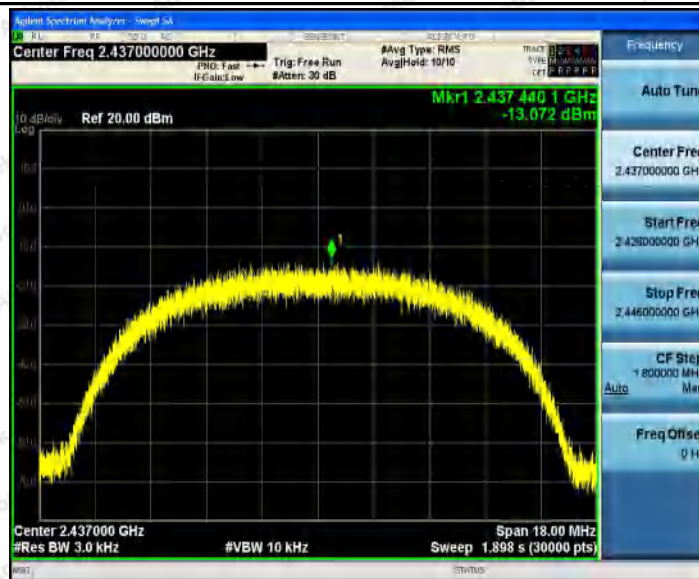
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.52	≤8	PASS
	Ant2	2412	-13.61	≤8	PASS
	Ant1	2437	-13.07	≤8	PASS
	Ant2	2437	-13.75	≤8	PASS
	Ant1	2462	-12.32	≤8	PASS
	Ant2	2462	-12.87	≤8	PASS
11G	Ant1	2412	-16.34	≤8	PASS
	Ant2	2412	-17.15	≤8	PASS
	Ant1	2437	-16.35	≤8	PASS
	Ant2	2437	-16.75	≤8	PASS
	Ant1	2462	-16.12	≤8	PASS
	Ant2	2462	-16.04	≤8	PASS
11N20	Ant1	2412	-15.88	≤8	PASS
	Ant2	2412	-16.74	≤8	PASS
	Ant1	2437	-15.84	≤8	PASS
	Ant2	2437	-15.91	≤8	PASS
	Ant1	2462	-15.36	≤8	PASS
	Ant2	2462	-15.35	≤8	PASS
11N40	Ant1	2422	-16.86	≤8	PASS
	Ant2	2422	-18.41	≤8	PASS
	Ant1	2437	-17.82	≤8	PASS
	Ant2	2437	-18.44	≤8	PASS
	Ant1	2452	-17.2	≤8	PASS
	Ant2	2452	-17.23	≤8	PASS

MIMO:

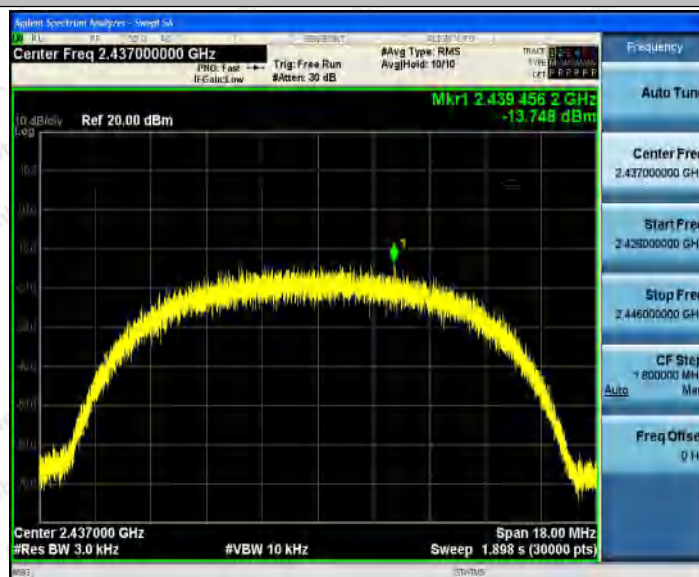
Test Mode	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	2412	-13.28	≤8	PASS
	2437	-12.86	≤8	PASS
	2462	-12.34	≤8	PASS
11N40	2422	-14.56	≤8	PASS
	2437	-15.11	≤8	PASS
	2452	-14.20	≤8	PASS

Test Graphs

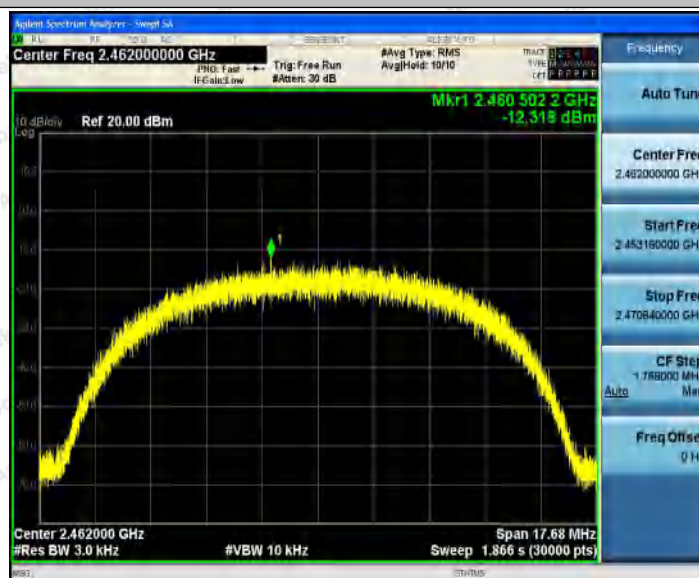




11B_Ant2_2437



11B_Ant1_2462



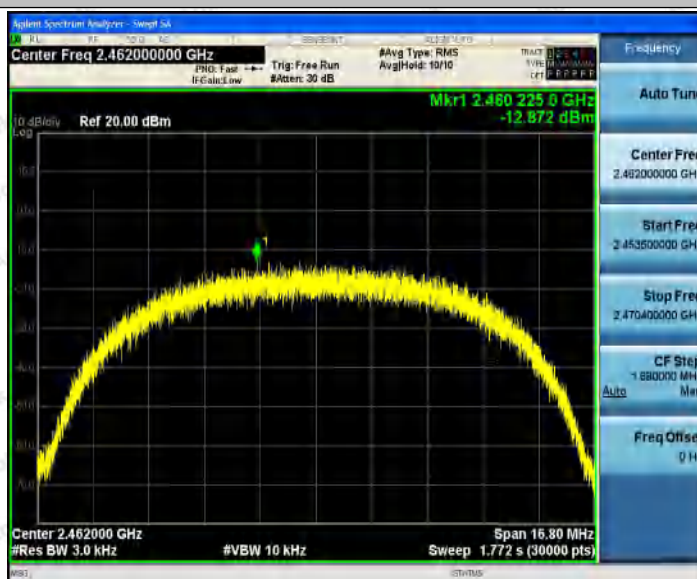
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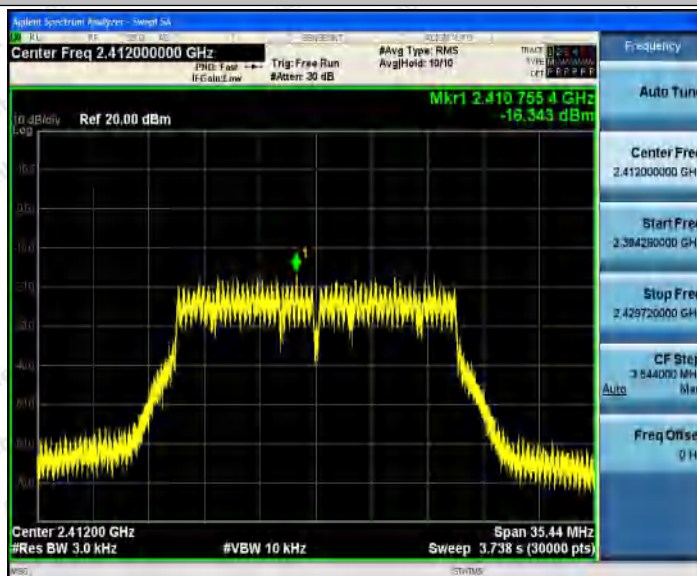
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11B_Ant2_2462



11G_Ant1_2412



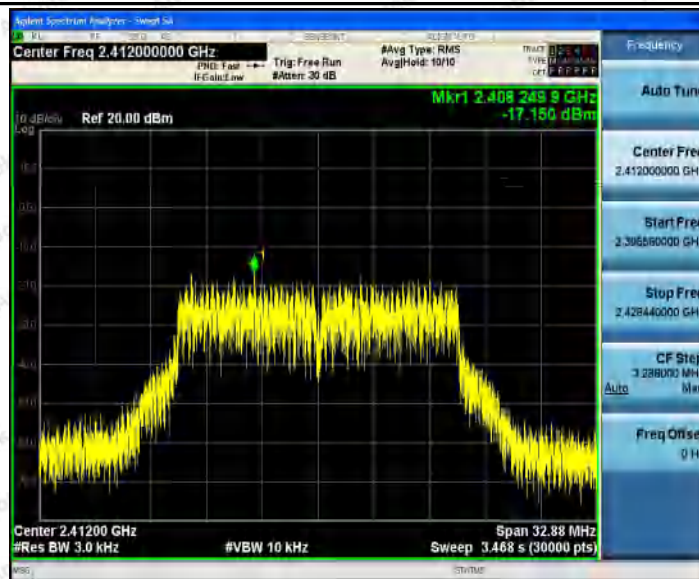
11G_Ant2_2412

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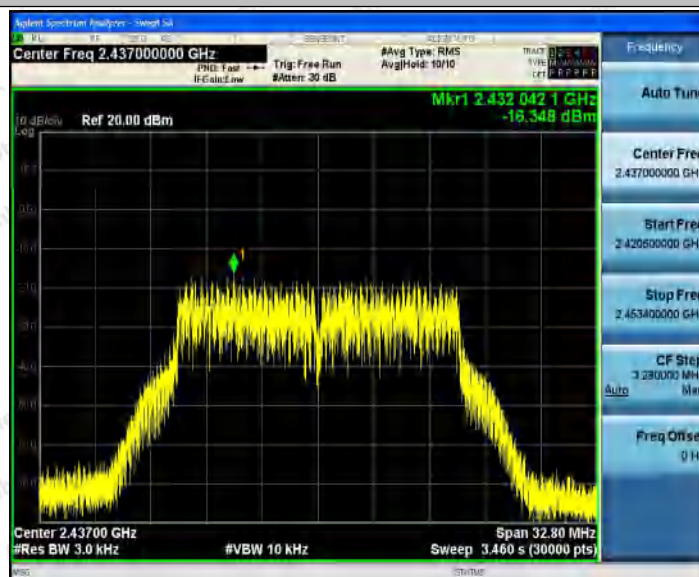
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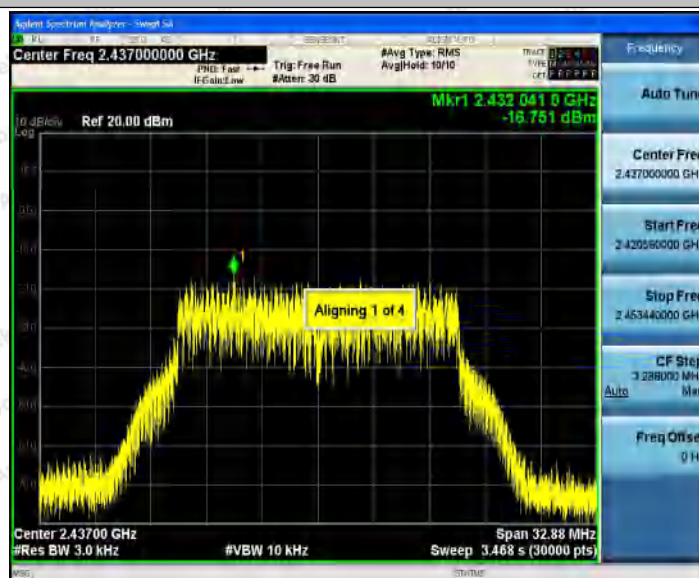
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11G_Ant1_2437



11G_Ant2_2437



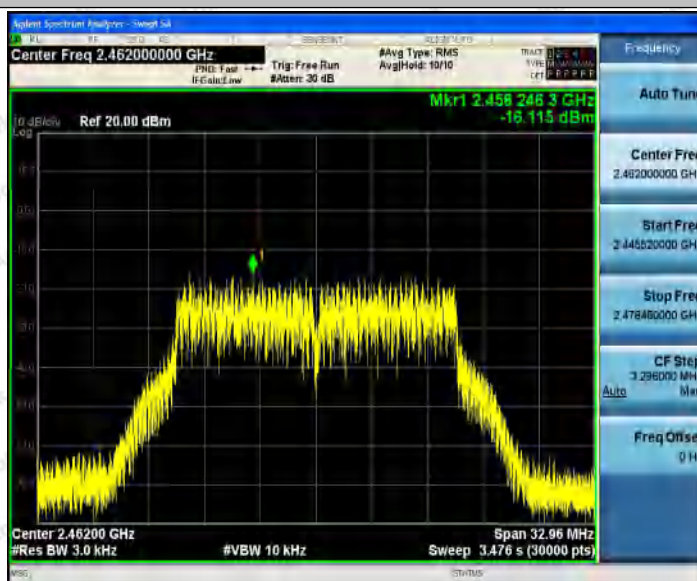
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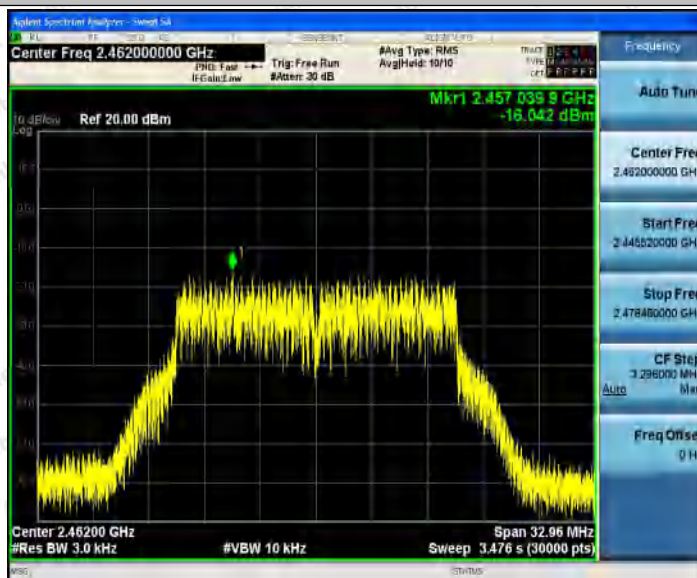
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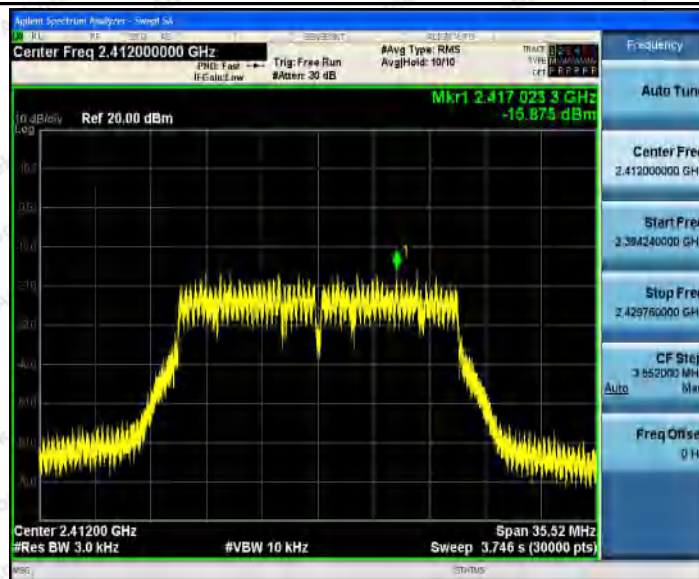
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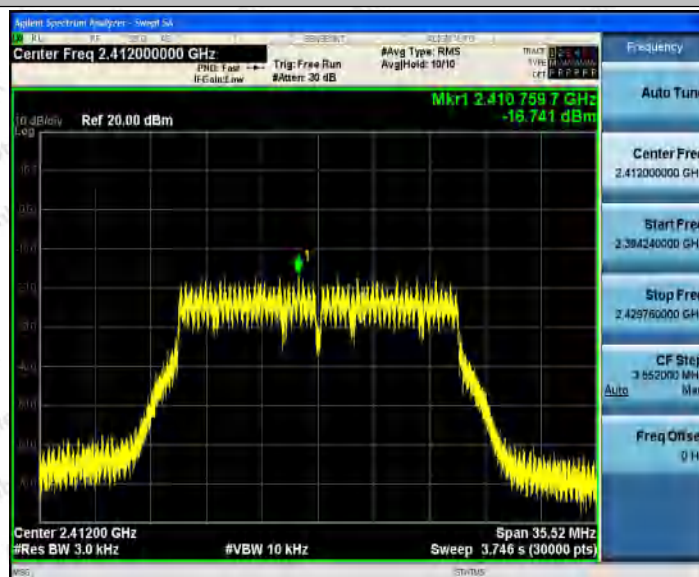
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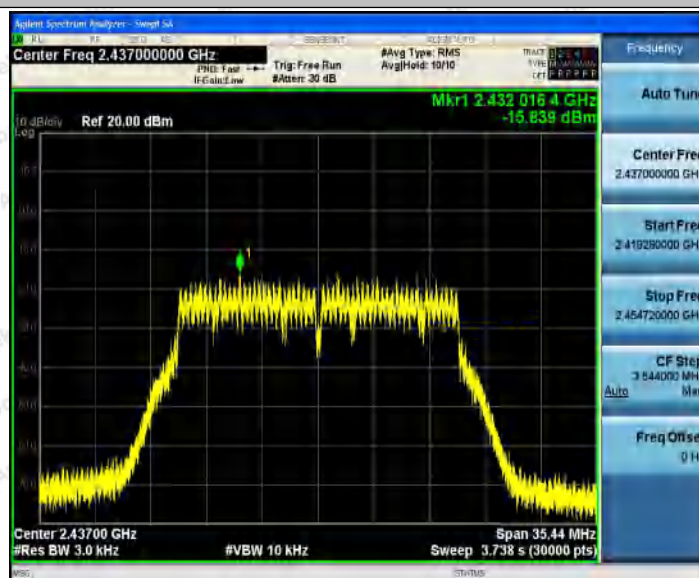
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11N20_Ant2_2412



11N20_Ant1_2437



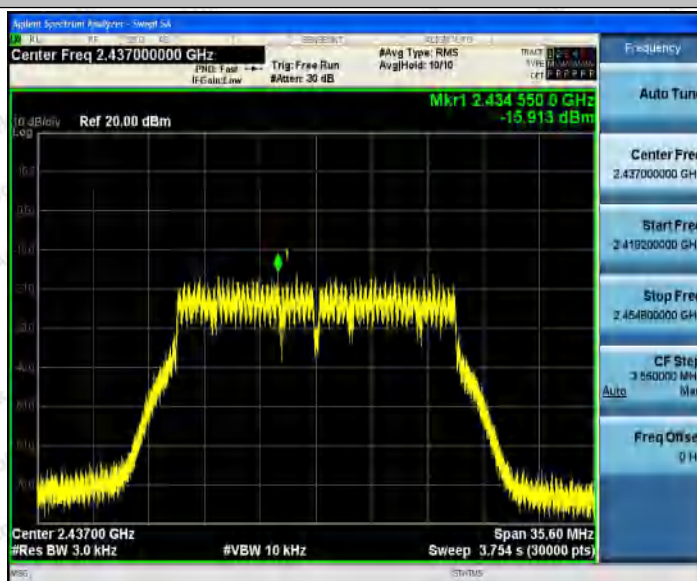
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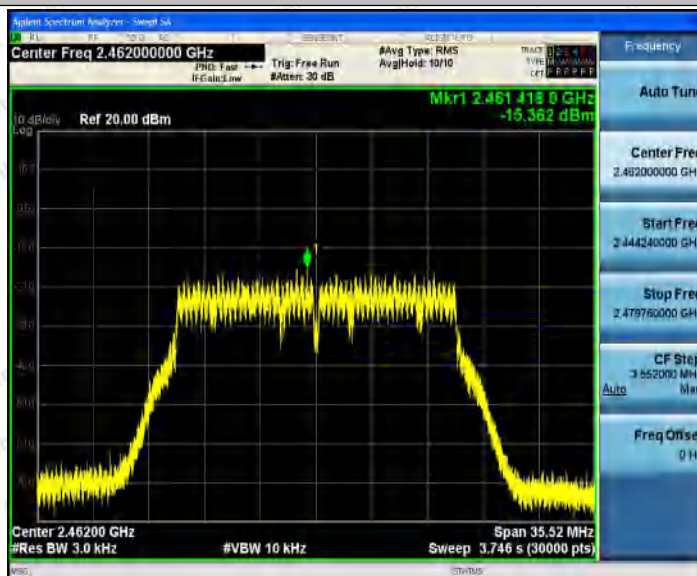
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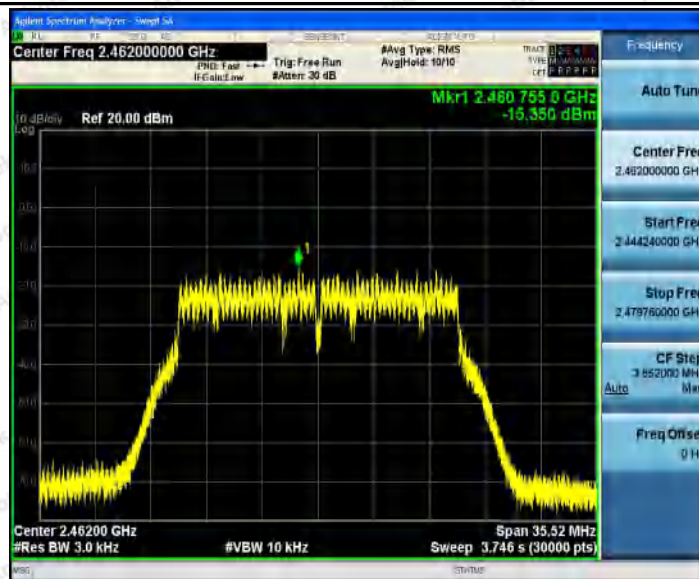
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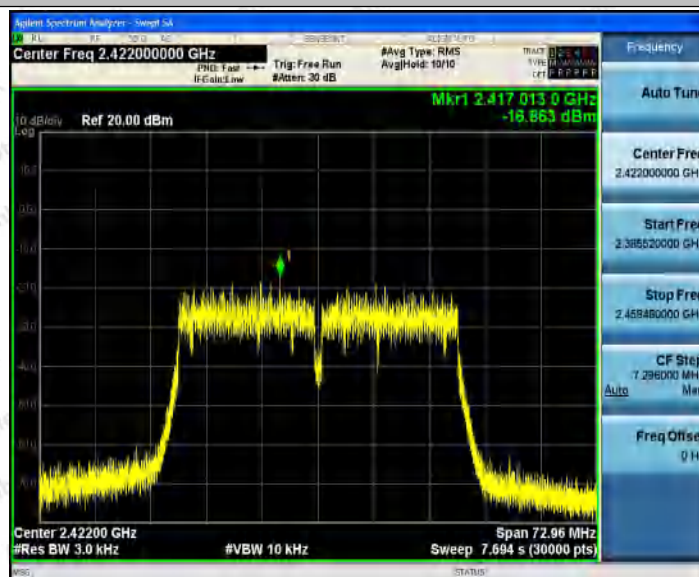
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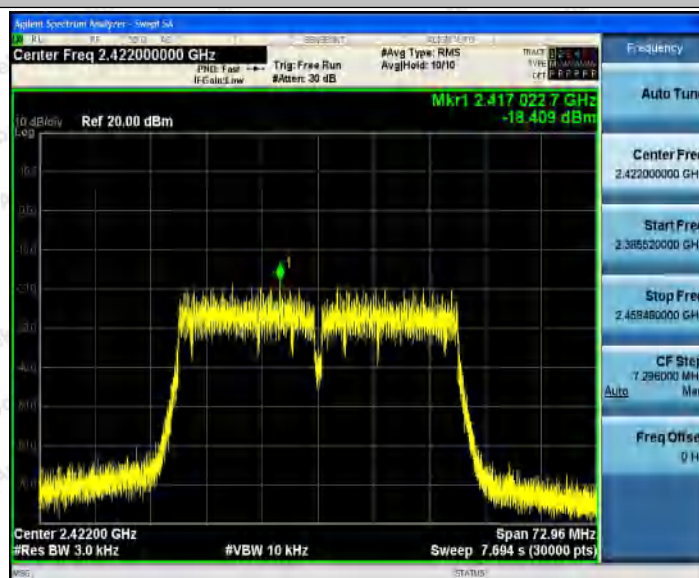
11N20_Ant2_2462



11N40_Ant1_2422



11N40_Ant2_2422



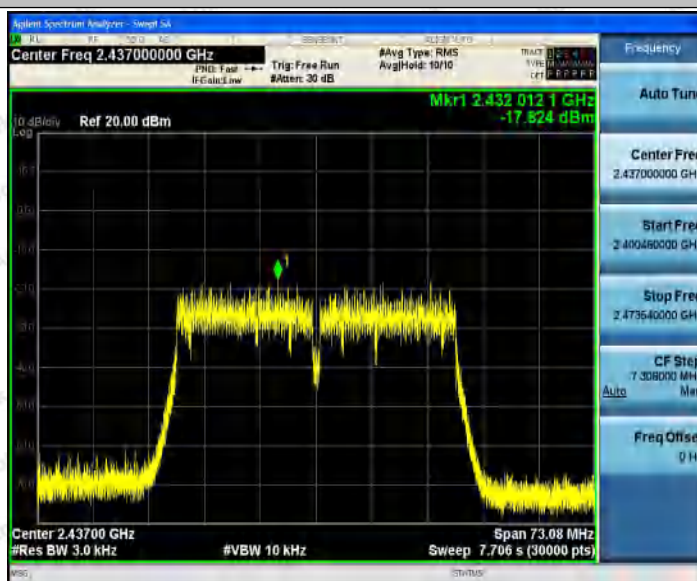
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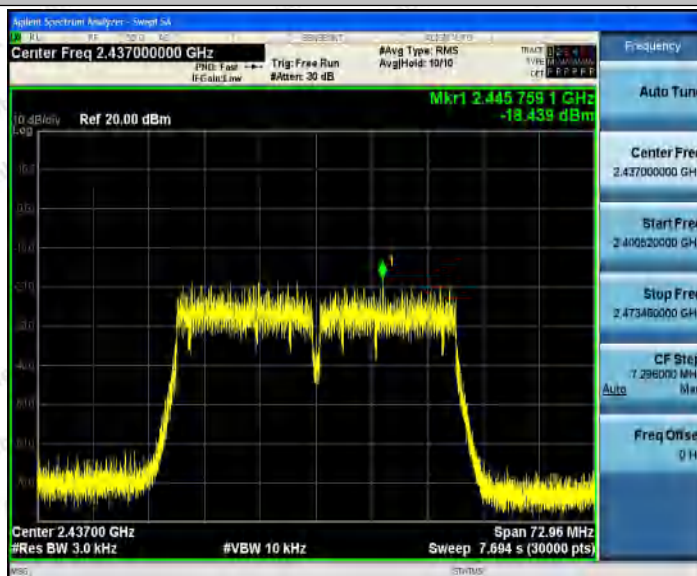
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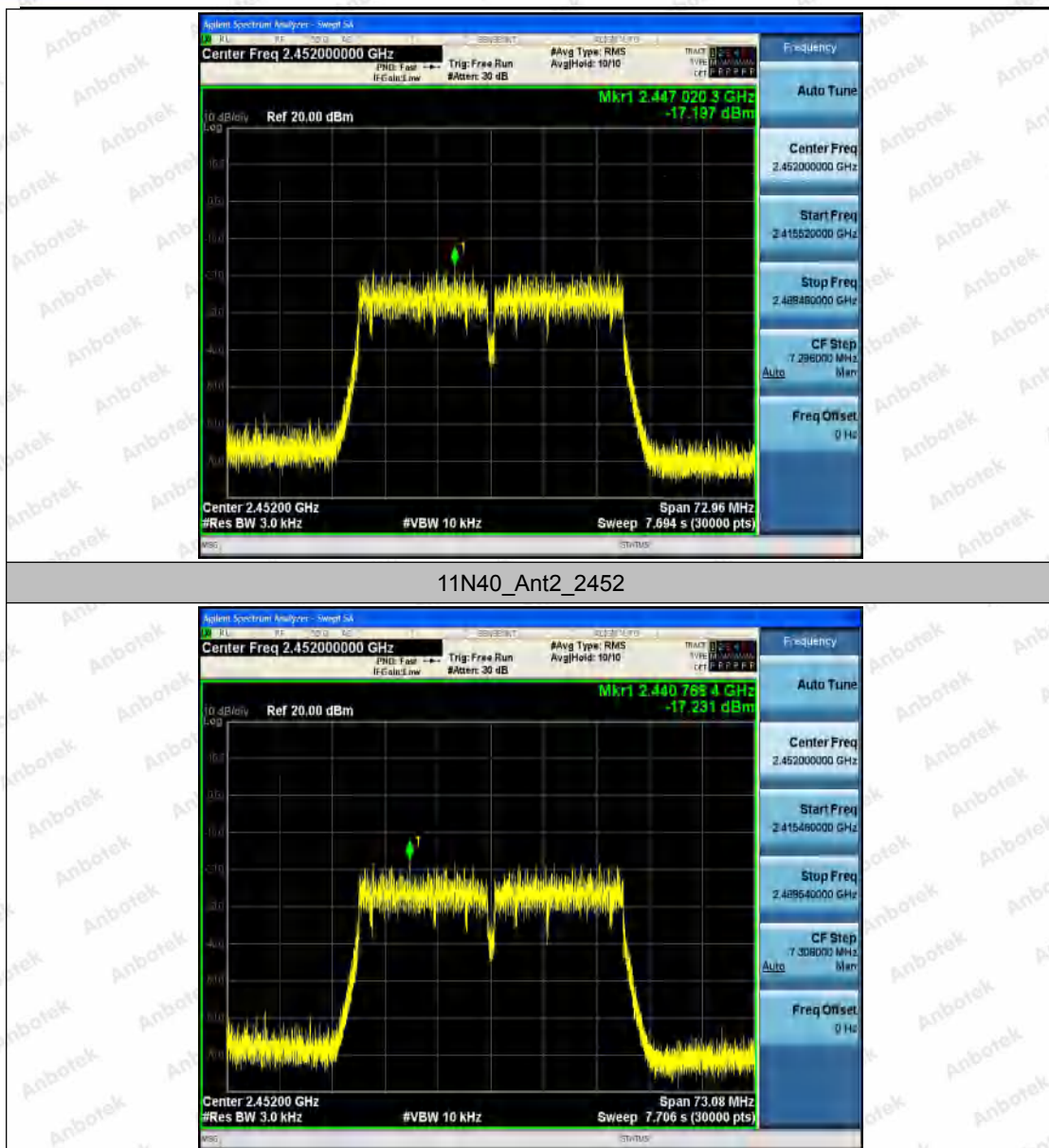
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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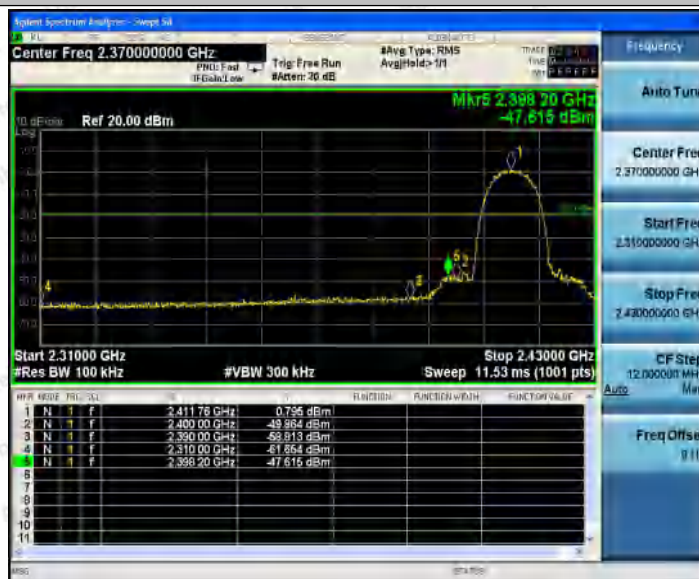
Appendix E: Band edge measurements

Test Result

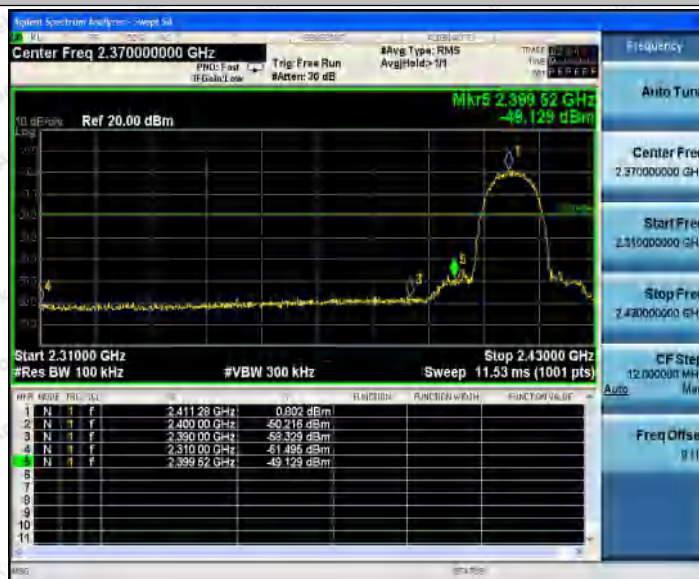
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.80	-47.62	≤ -19.21	PASS
	Ant2	Low	2412	0.80	-49.13	≤ -19.2	PASS
	Ant1	High	2462	1.81	-56.01	≤ -18.19	PASS
	Ant2	High	2462	-1.10	-52.84	≤ -21.1	PASS
11G	Ant1	Low	2412	-2.20	-45.81	≤ -22.2	PASS
	Ant2	Low	2412	-2.57	-37.09	≤ -22.57	PASS
	Ant1	High	2462	-1.18	-53.75	≤ -21.18	PASS
	Ant2	High	2462	-1.11	-53.43	≤ -21.11	PASS
11N20	Ant1	Low	2412	-2.47	-37.76	≤ -22.47	PASS
	Ant2	Low	2412	-2.46	-40.13	≤ -22.46	PASS
	Ant1	High	2462	-1.16	-53.14	≤ -21.16	PASS
	Ant2	High	2462	-1.05	-52.71	≤ -21.05	PASS
11N40	Ant1	Low	2422	-4.65	-45.8	≤ -24.65	PASS
	Ant2	Low	2422	-4.48	-46.4	≤ -24.48	PASS
	Ant1	High	2452	-3.81	-47.11	≤ -23.81	PASS
	Ant2	High	2452	-4.25	-48.32	≤ -24.25	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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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

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11N40_Ant2_Low_2422



11N40_Ant1_High_2452

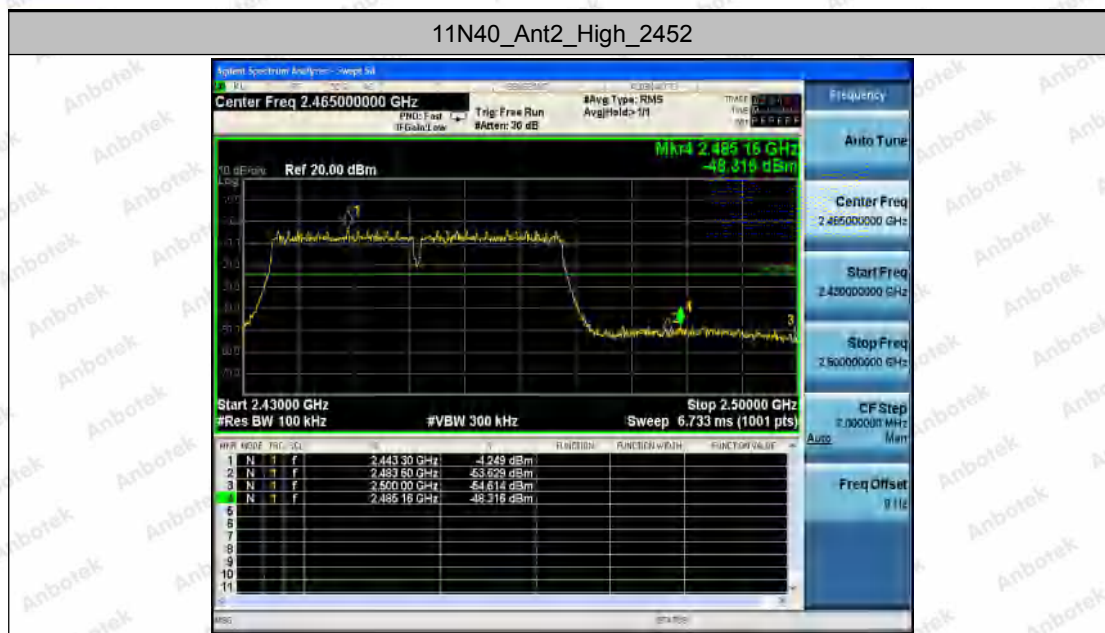


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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-70.26	≤ -19.1	PASS
			1000~26500	0.90	-55.72	≤ -19.1	PASS
	Ant2	2412	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-70.34	≤ -19.77	PASS
			1000~26500	0.23	-55.46	≤ -19.77	PASS
	Ant1	2437	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-69.97	≤ -19.7	PASS
			1000~26500	0.30	-55.49	≤ -19.7	PASS
	Ant2	2437	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-70.9	≤ -19.36	PASS
			1000~26500	0.64	-55.25	≤ -19.36	PASS
	Ant1	2462	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-70.18	≤ -18.09	PASS
			1000~26500	1.91	-55.33	≤ -18.09	PASS
	Ant2	2462	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-70.1	≤ -21.07	PASS
			1000~26500	1.12	-55.56	≤ -18.88	PASS
11G	Ant1	2412	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-70.44	≤ -22.77	PASS
			1000~26500	-2.77	-55.68	≤ -22.77	PASS
	Ant2	2412	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-66.56	≤ -22.26	PASS
			1000~26500	-2.26	-55.77	≤ -22.26	PASS
	Ant1	2437	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-70.68	≤ -21.9	PASS
			1000~26500	-1.90	-54.4	≤ -21.9	PASS
	Ant2	2437	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-68.67	≤ -22.04	PASS
			1000~26500	-2.04	-56.42	≤ -22.04	PASS
	Ant1	2462	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-70.72	≤ -21.15	PASS
			1000~26500	-1.15	-54.8	≤ -21.15	PASS
	Ant2	2462	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-69.26	≤ -21.19	PASS
			1000~26500	-1.19	-56.16	≤ -21.19	PASS
11N20	Ant1	2412	Reference	-2.21	-2.21	---	PASS

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11N40	Ant2	2412	30~1000	-2.21	-70.62	≤ -22.21	PASS
			1000~26500	-2.21	-55.63	≤ -22.21	PASS
			Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-69.61	≤ -22.57	PASS
			1000~26500	-2.57	-56.18	≤ -22.57	PASS
			Reference	-1.96	-1.96	---	PASS
	Ant1	2437	30~1000	-1.96	-69.4	≤ -21.96	PASS
			1000~26500	-1.96	-56.07	≤ -21.96	PASS
			Reference	-1.68	-1.68	---	PASS
	Ant2	2437	30~1000	-1.68	-70.69	≤ -21.68	PASS
			1000~26500	-1.68	-56.22	≤ -21.68	PASS
			Reference	-0.86	-0.86	---	PASS
	Ant1	2462	30~1000	-0.86	-70.49	≤ -20.86	PASS
			1000~26500	-0.86	-55.06	≤ -20.86	PASS
			Reference	-1.06	-1.06	---	PASS
	Ant2	2462	30~1000	-1.06	-70.73	≤ -21.06	PASS
			1000~26500	-1.06	-55.53	≤ -21.06	PASS
			Reference	-4.67	-4.67	---	PASS
	Ant1	2422	30~1000	-4.67	-69.52	≤ -24.67	PASS
			1000~26500	-4.67	-55.6	≤ -24.67	PASS
			Reference	-4.47	-4.47	---	PASS
	Ant2	2422	30~1000	-4.47	-70.57	≤ -24.47	PASS
			1000~26500	-4.47	-54.78	≤ -24.47	PASS
			Reference	-4.61	-4.61	---	PASS
	Ant1	2437	30~1000	-4.61	-70.22	≤ -24.61	PASS
			1000~26500	-4.61	-55.42	≤ -24.61	PASS
			Reference	-4.44	-4.44	---	PASS
	Ant2	2437	30~1000	-4.44	-70.76	≤ -24.44	PASS
			1000~26500	-4.44	-54.39	≤ -24.44	PASS
			Reference	-3.79	-3.79	---	PASS
	Ant1	2452	30~1000	-3.79	-69.85	≤ -23.79	PASS
			1000~26500	-3.79	-55.37	≤ -23.79	PASS
			Reference	-4.25	-4.25	---	PASS
	Ant2	2452	30~1000	-4.25	-70.79	≤ -24.25	PASS
			1000~26500	-4.25	-55.68	≤ -24.25	PASS

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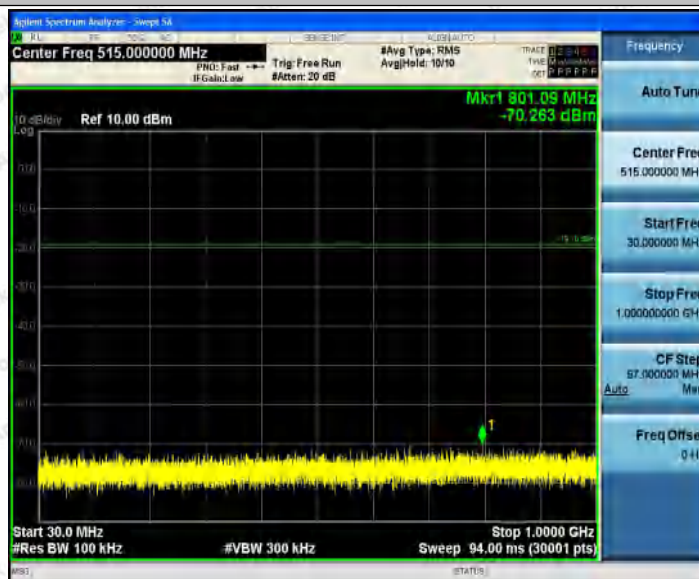
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Test Graphs

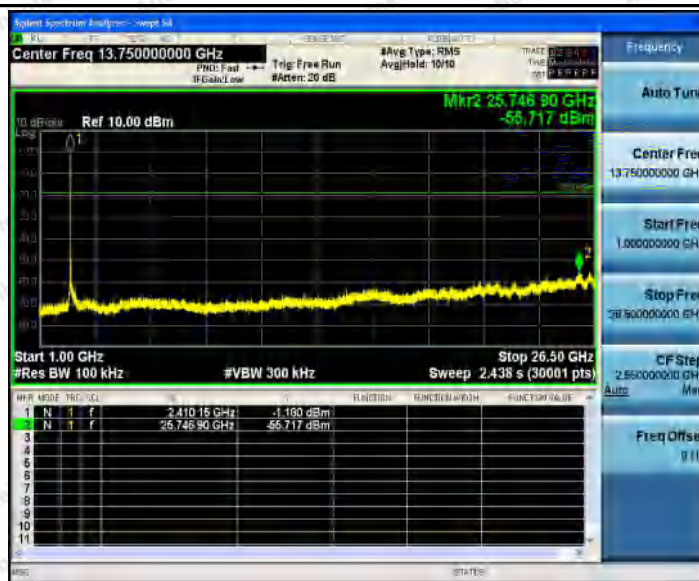
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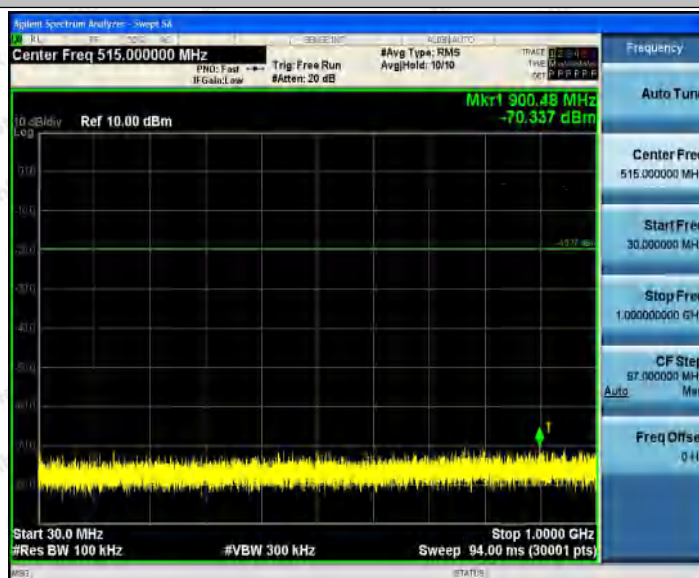
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11B_Ant2_2412_30~1000



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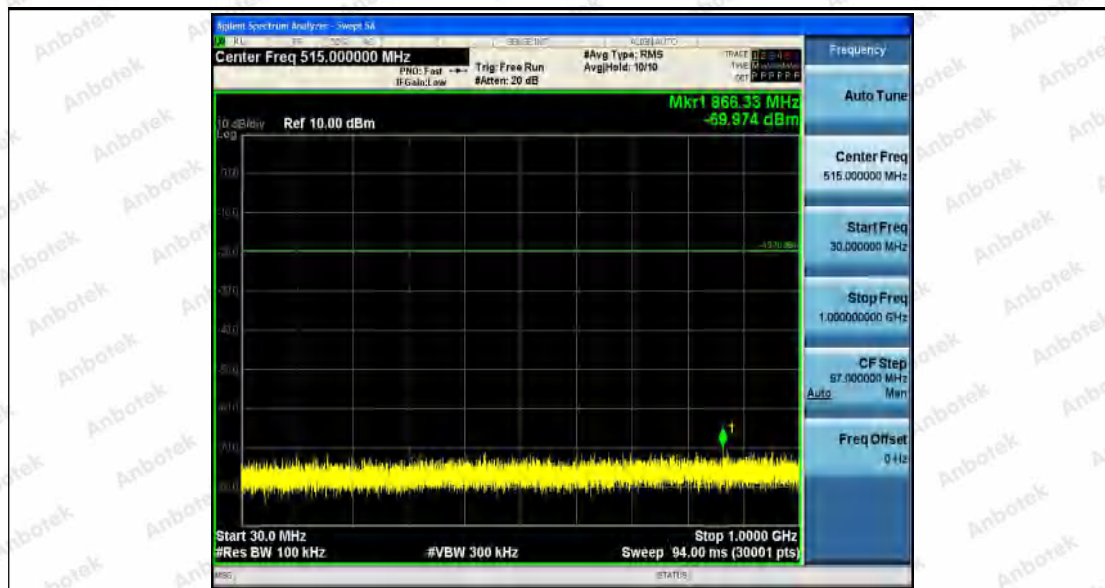
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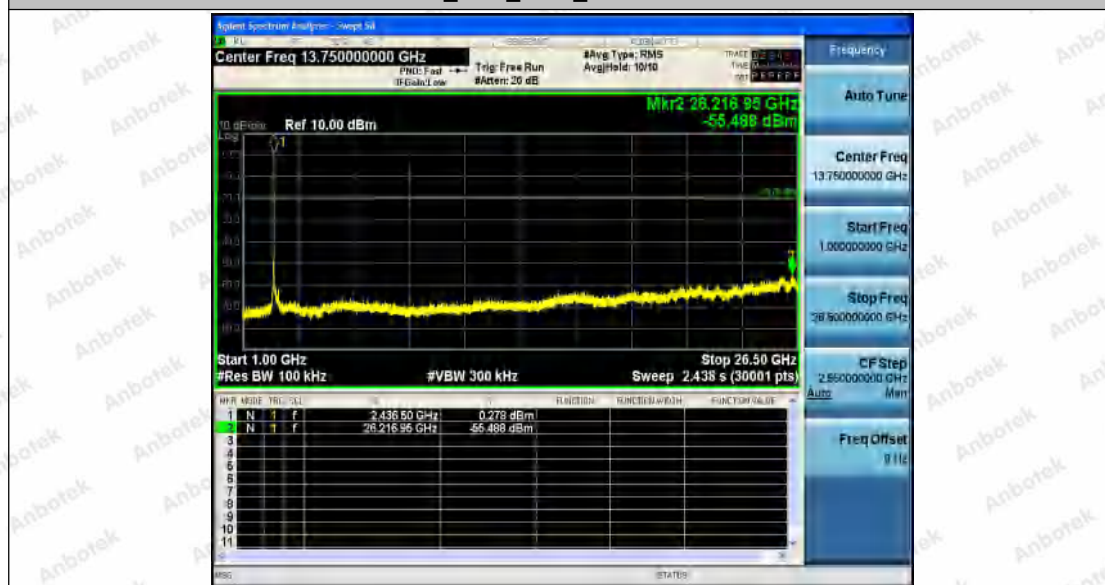
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11B_Ant1_2437_1000~26500



11B_Ant2_2437_0~Reference



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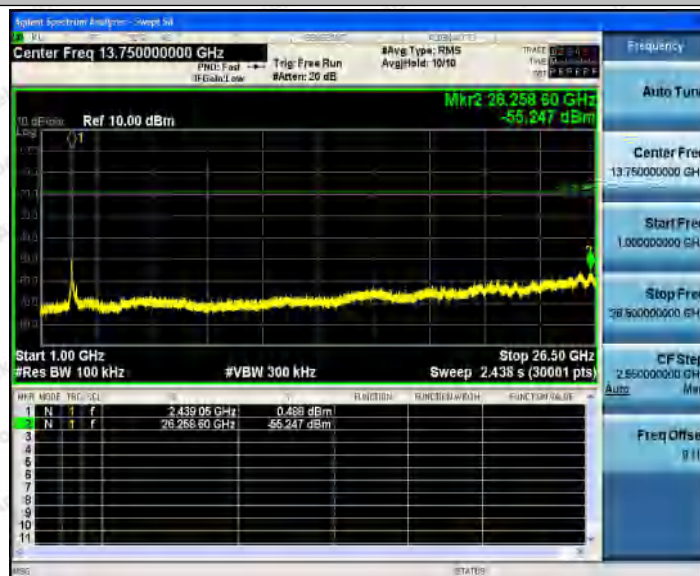
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11B_Ant2_2437_1000~26500



11B_Ant1_2462_0~Reference

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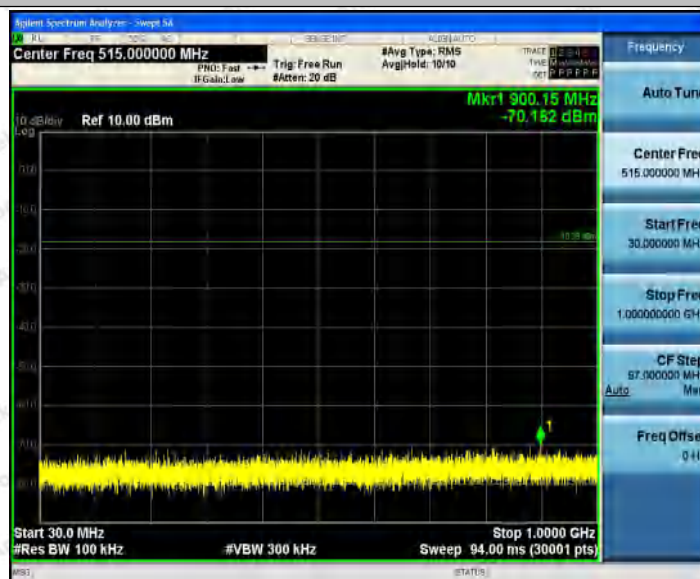
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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



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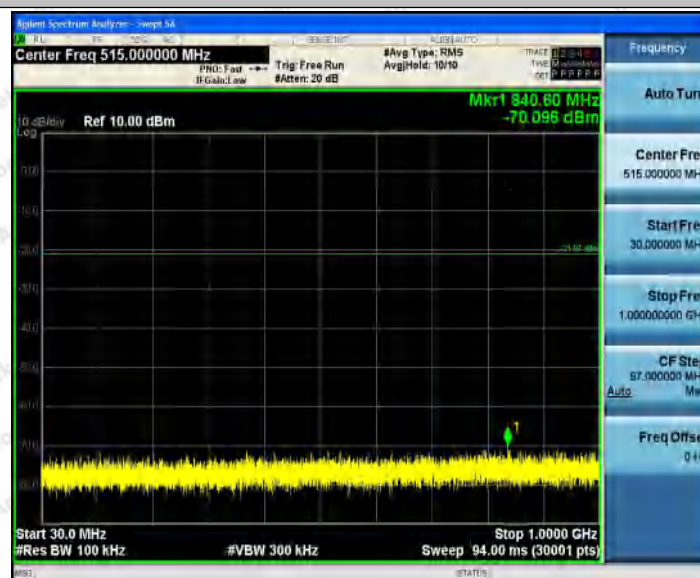
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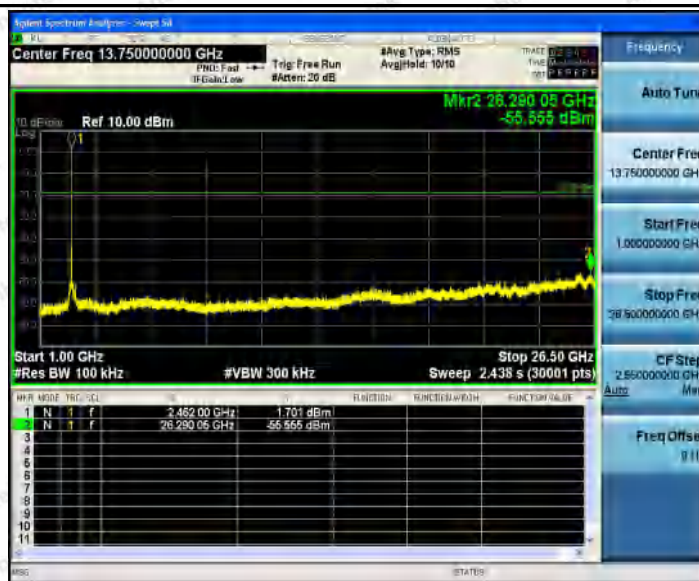
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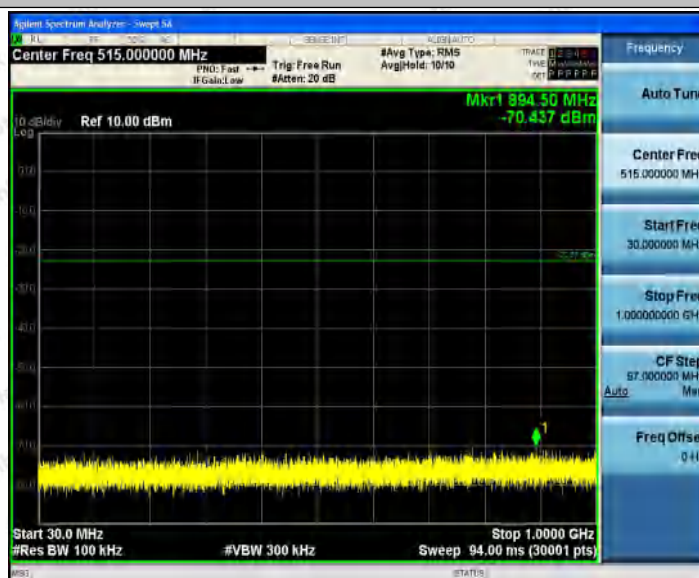
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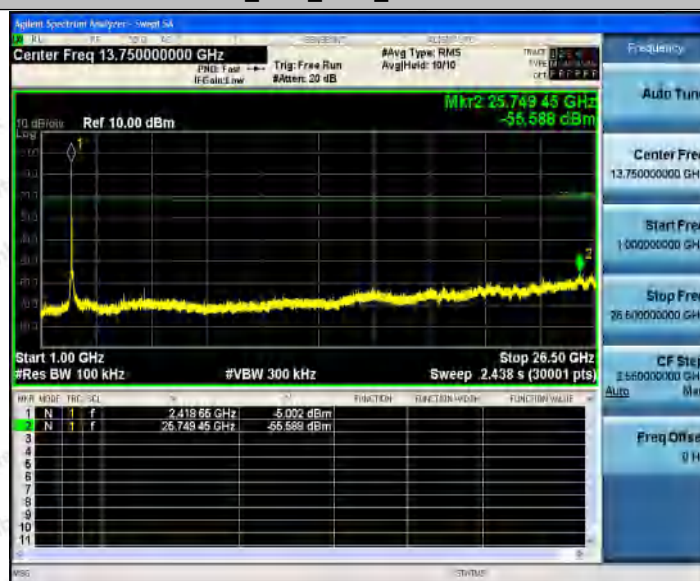
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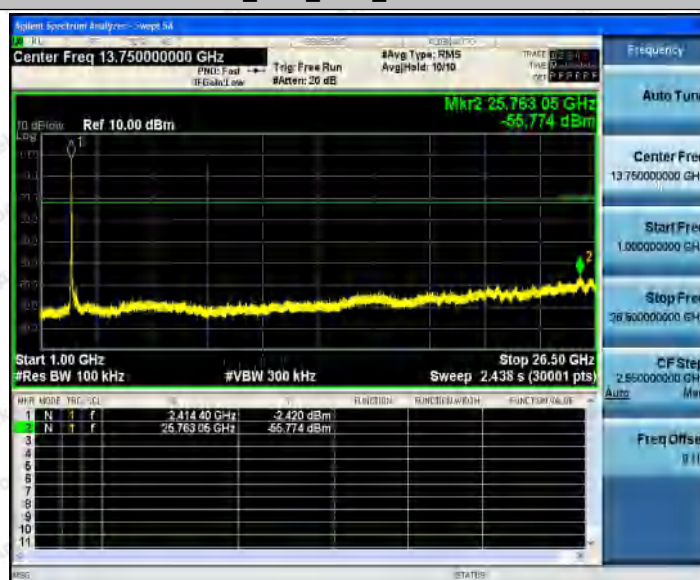
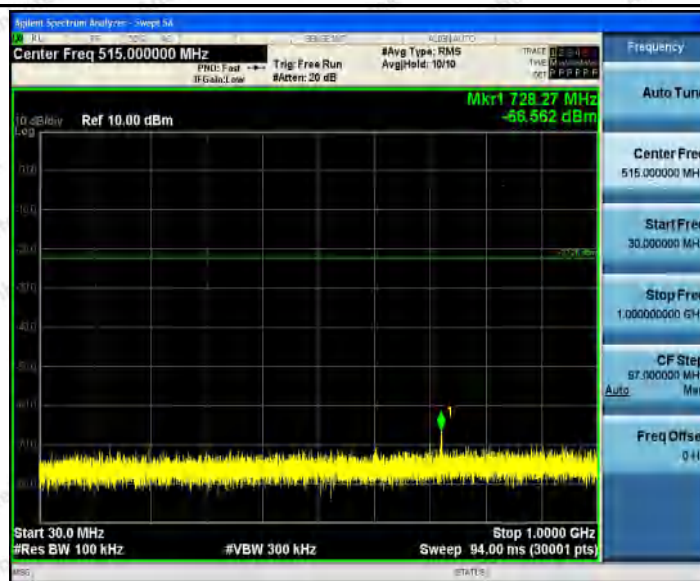
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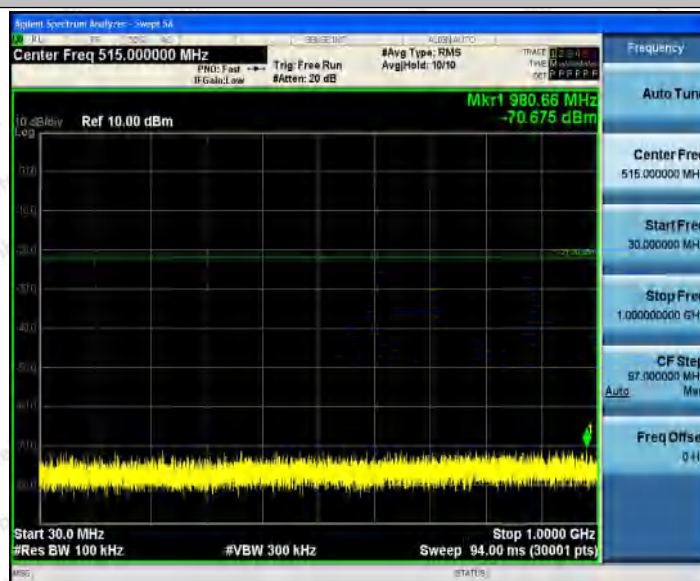
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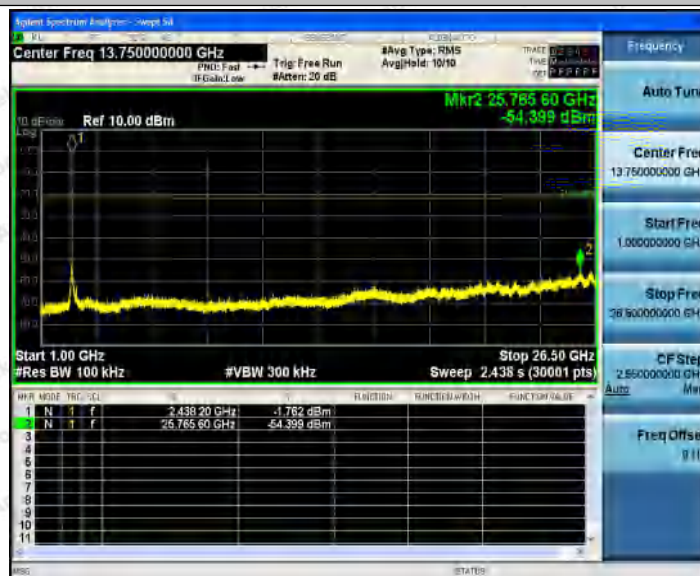
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11G_Ant1_2437_30~1000



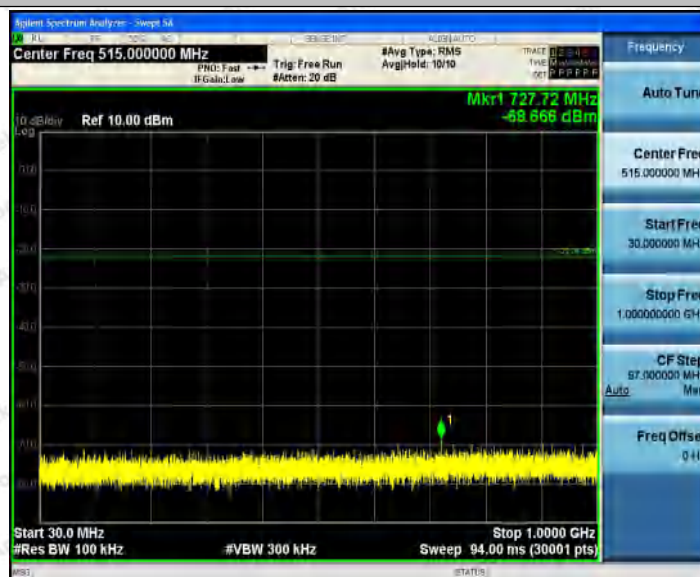
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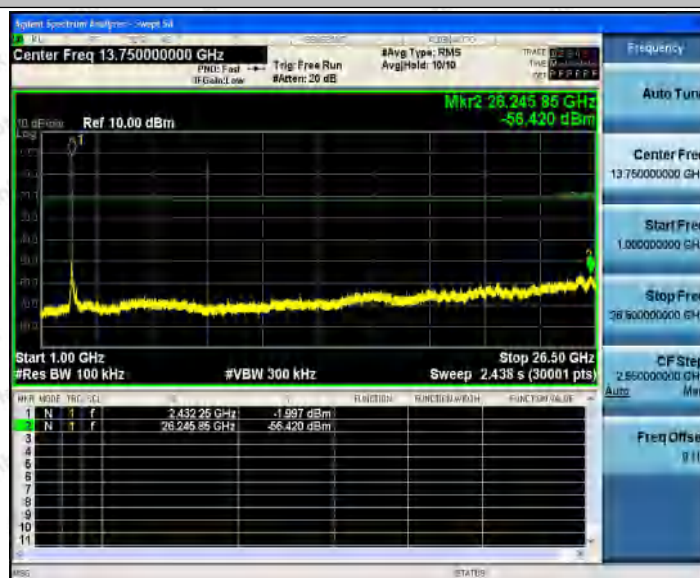
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11G_Ant2_2437_1000~26500



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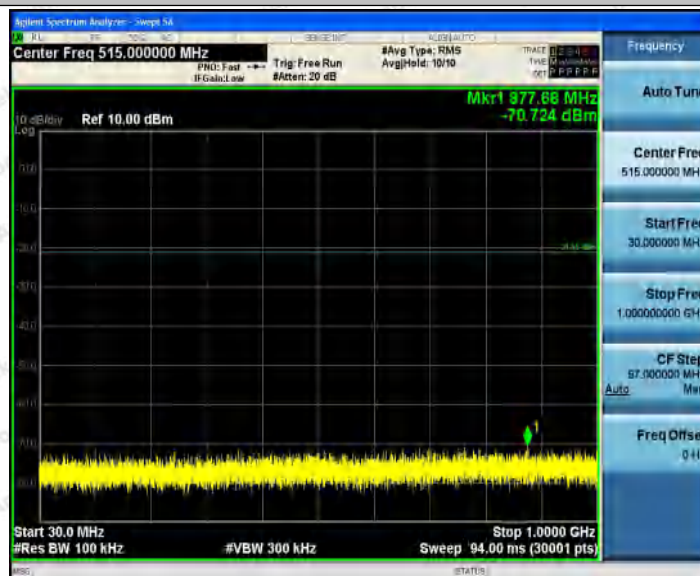
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

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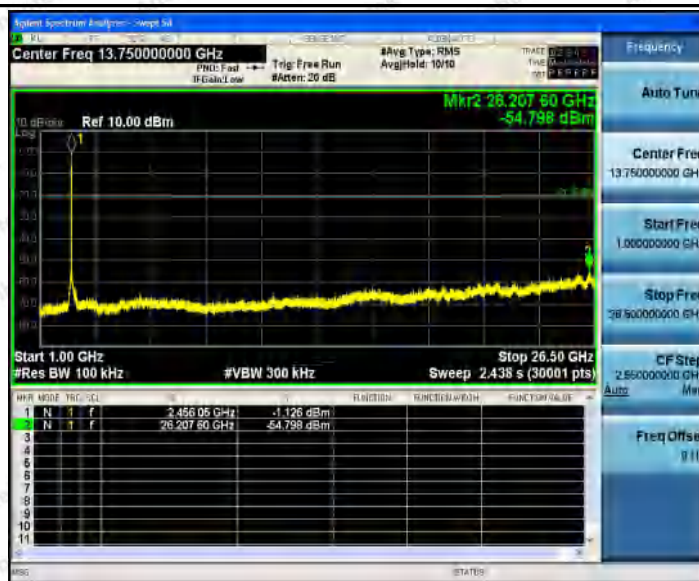
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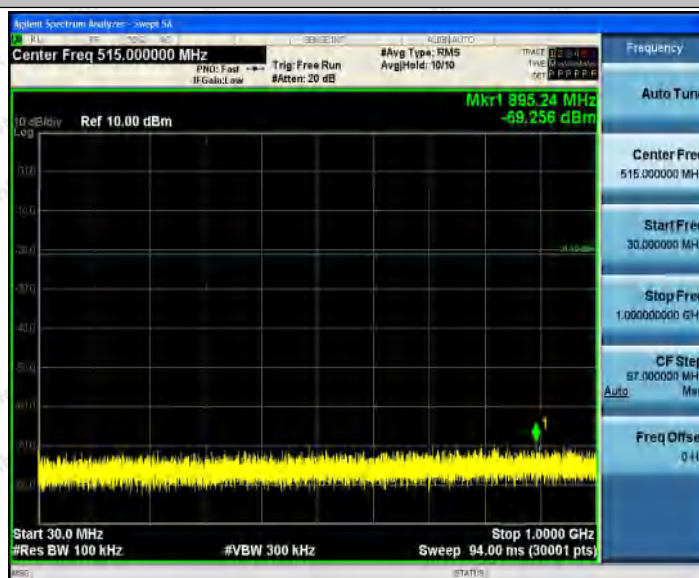
www.anbotech.com



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11G_Ant2_2462_30~1000



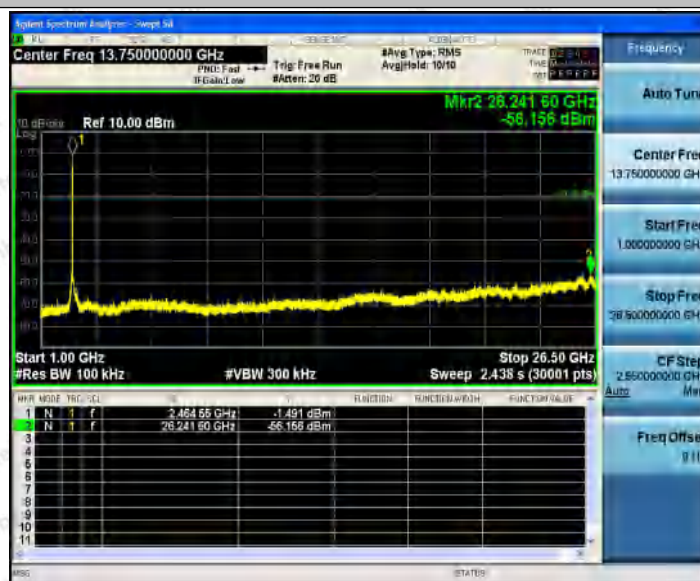
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11G_Ant2_2462_1000~26500



11N20_Ant1_2412_0~Reference



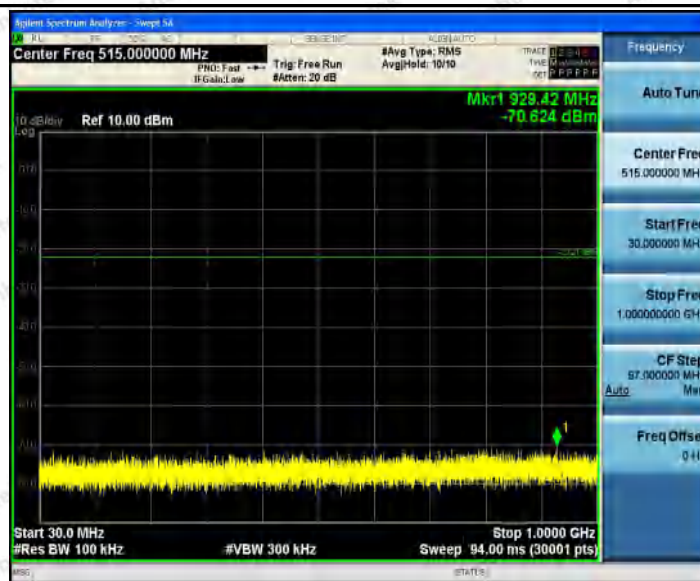
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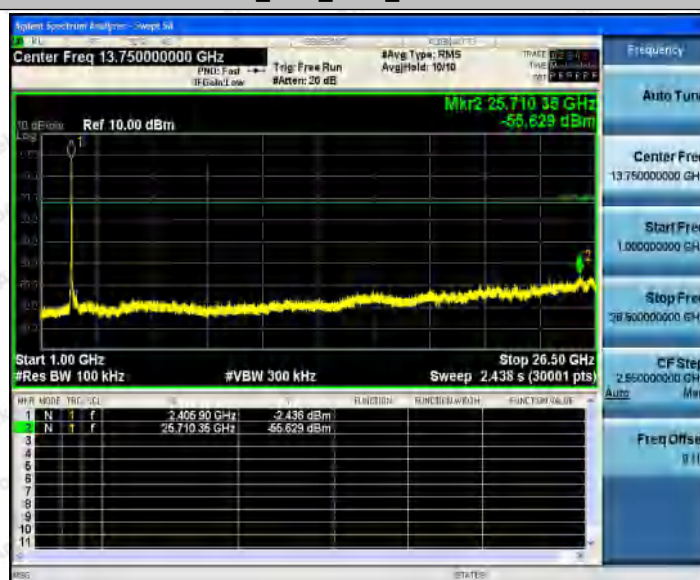
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11N20_Ant1_2412_1000~26500



11N20_Ant2_2412_0~Reference



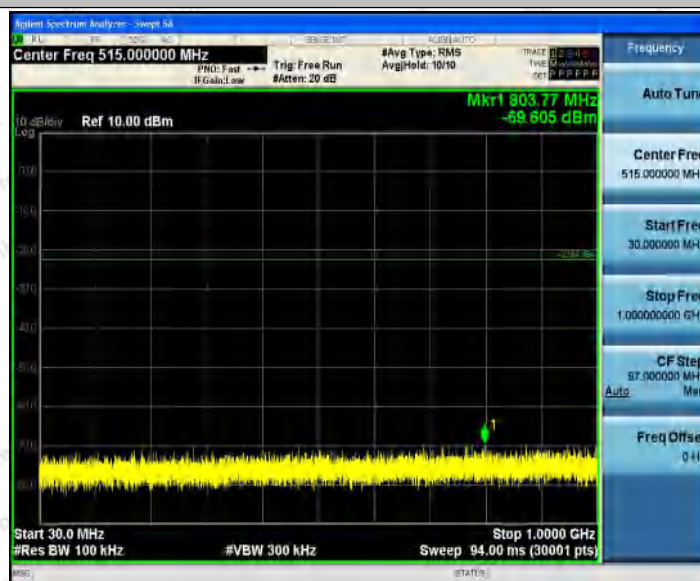
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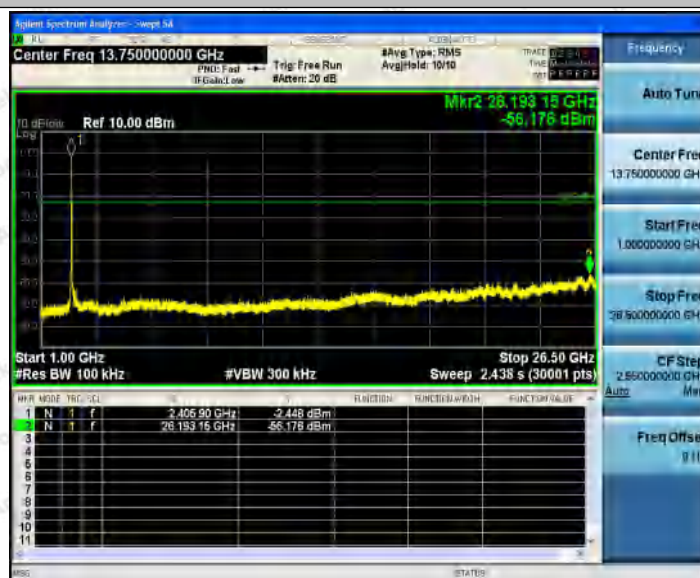
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11N20_Ant2_2412_30~1000



11N20_Ant2_2412_1000~26500



11N20_Ant1_2437_0~Reference

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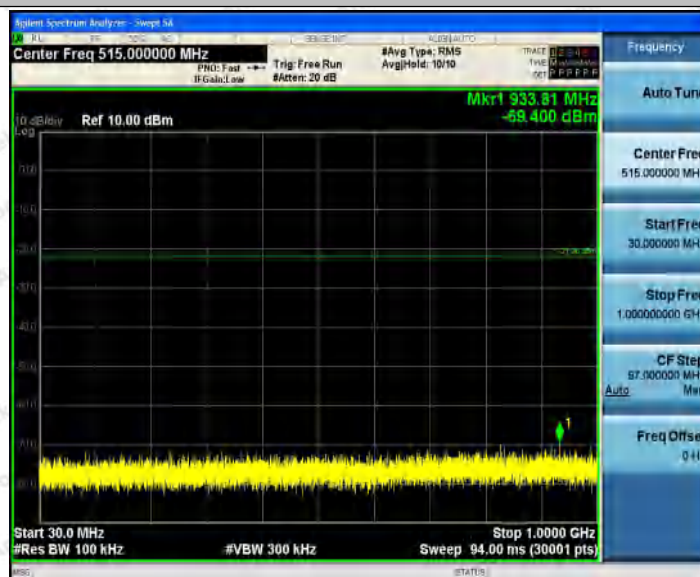
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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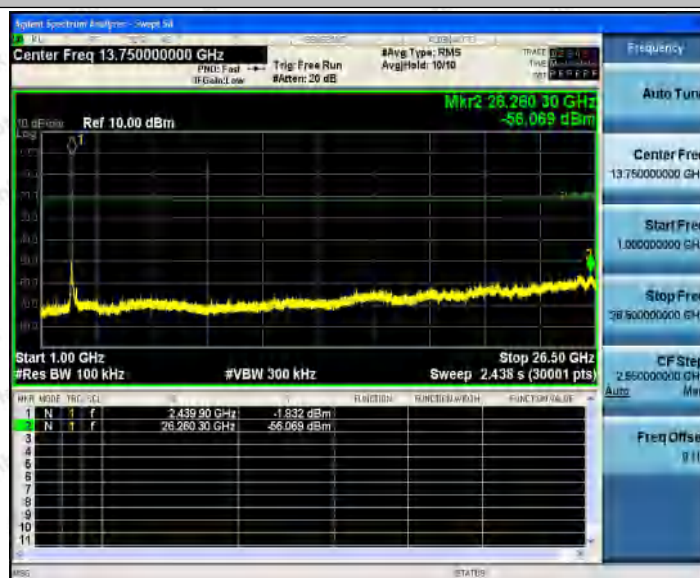
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11N20_Ant1_2437_30~1000



11N20_Ant1_2437_1000~26500



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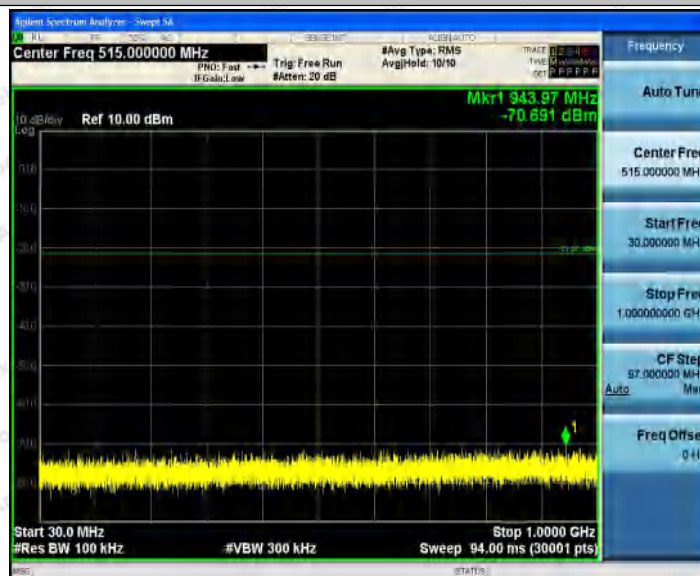
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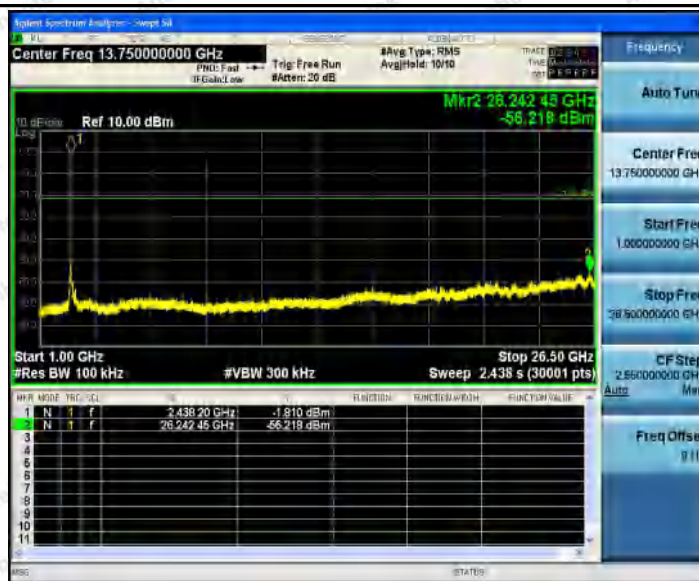
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11N20_Ant2_2437_30~1000



11N20_Ant2_2437_1000~26500



11N20_Ant1_2462_0~Reference



11N20_Ant1_2462_30~1000



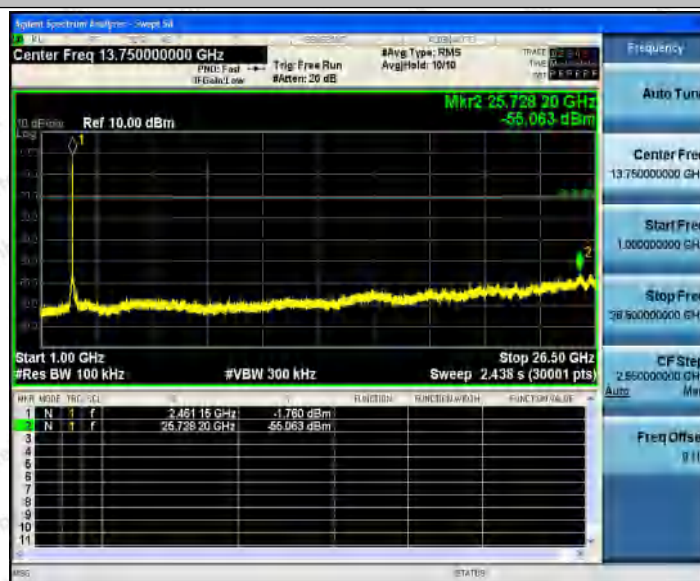
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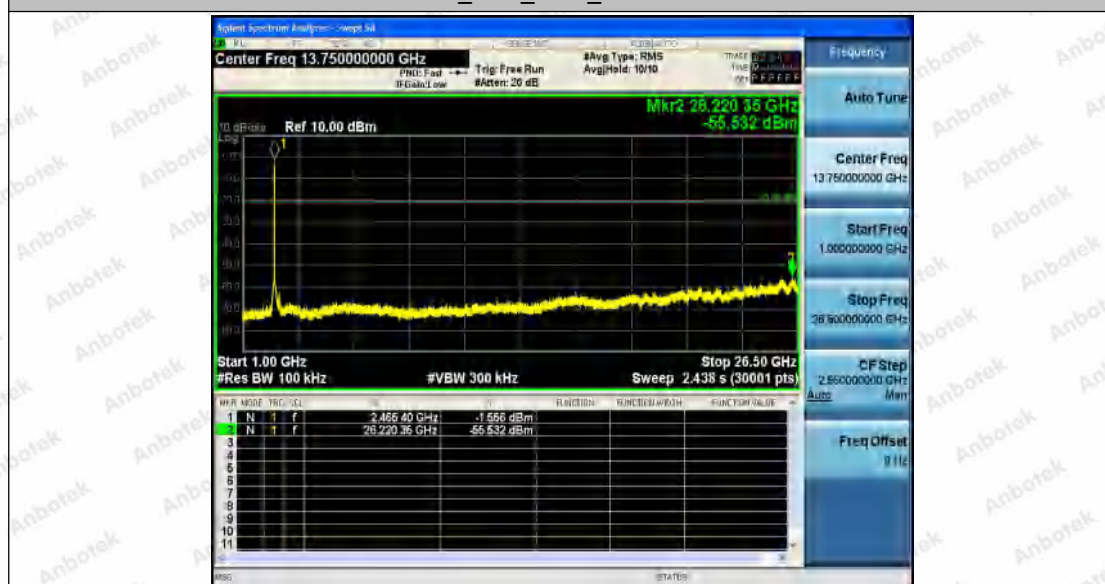
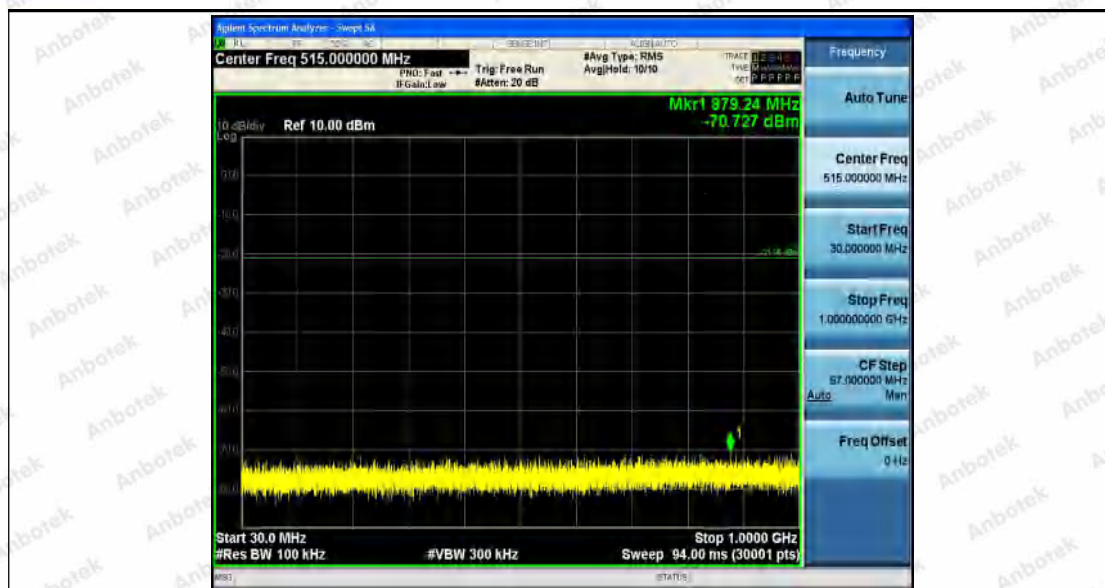
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11N20_Ant2_2462_30~1000



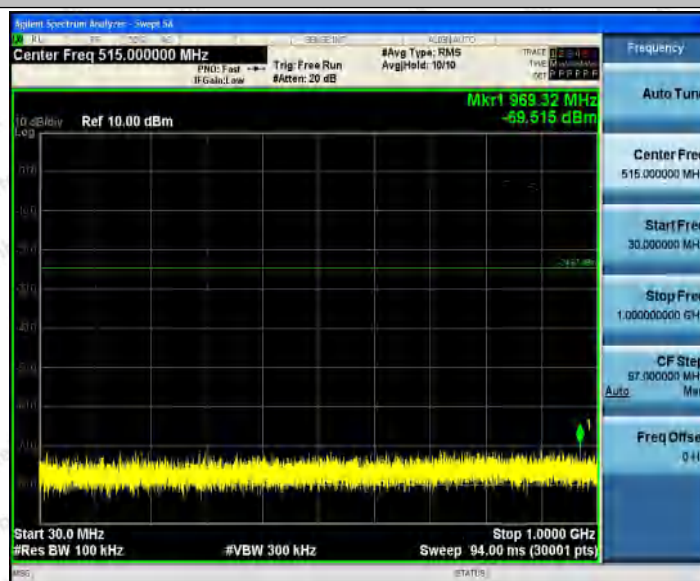
Shenzhen Anbotek Compliance Laboratory Limited

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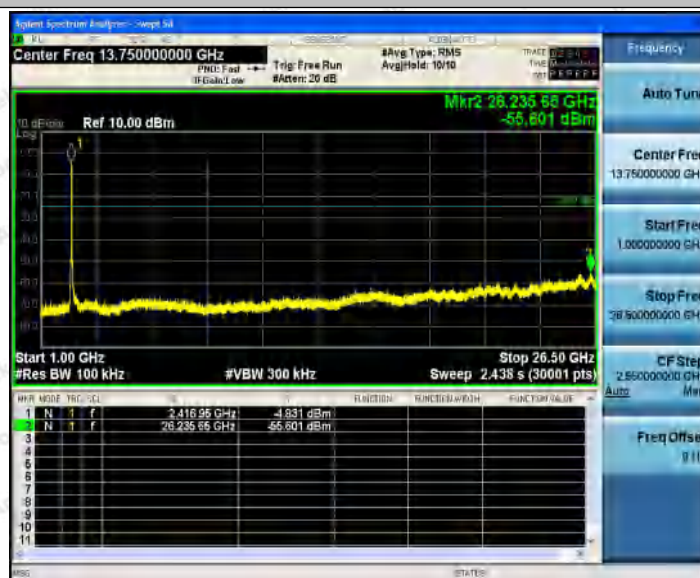
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11N40_Ant1_2422_30~1000



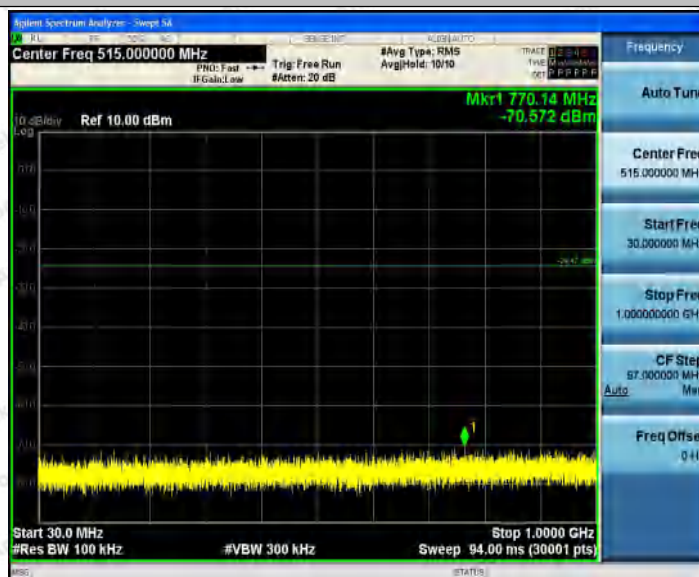
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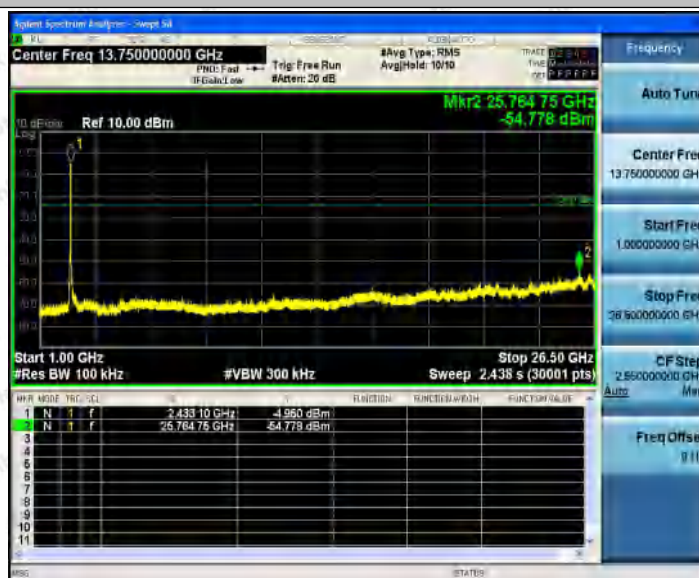
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11N40_Ant2_2422_30~1000



11N40_Ant2_2422_1000~26500



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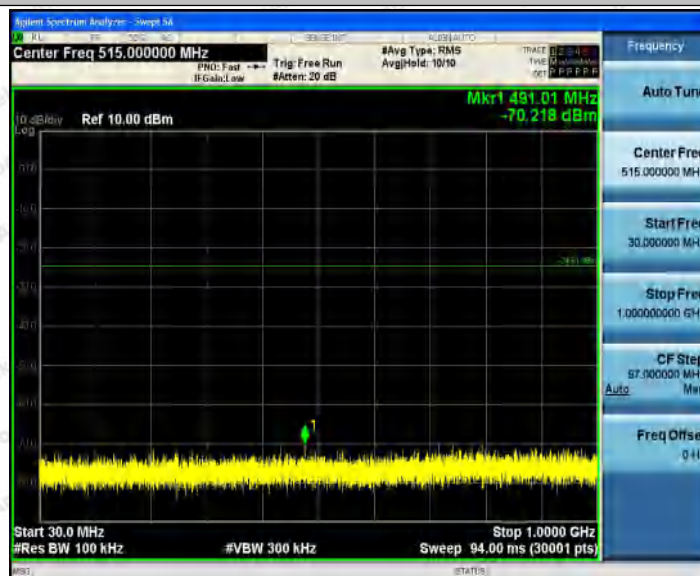
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11N40_Ant1_2437_30~1000



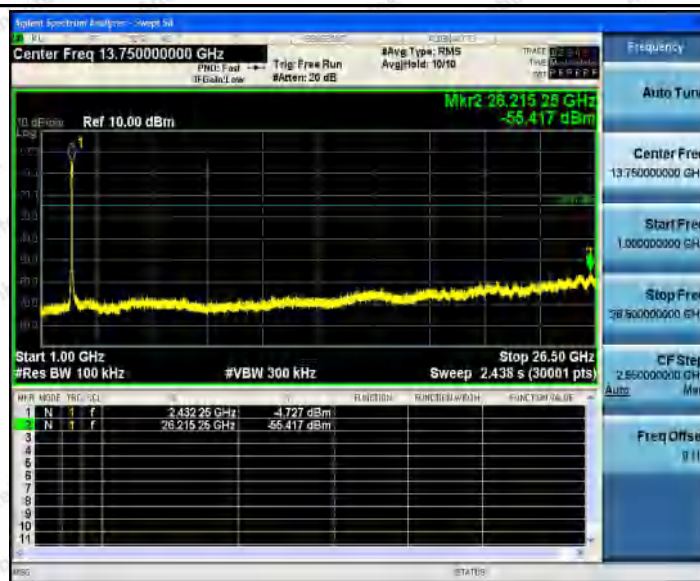
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Shenzhen Anbotek Compliance Laboratory Limited

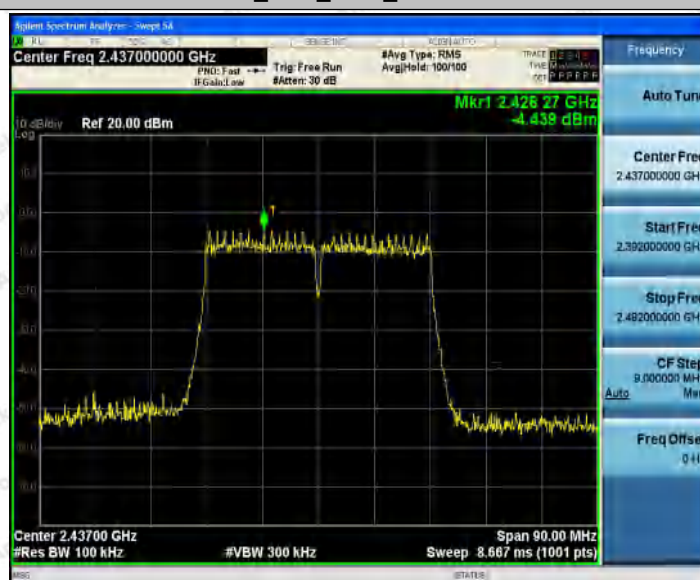
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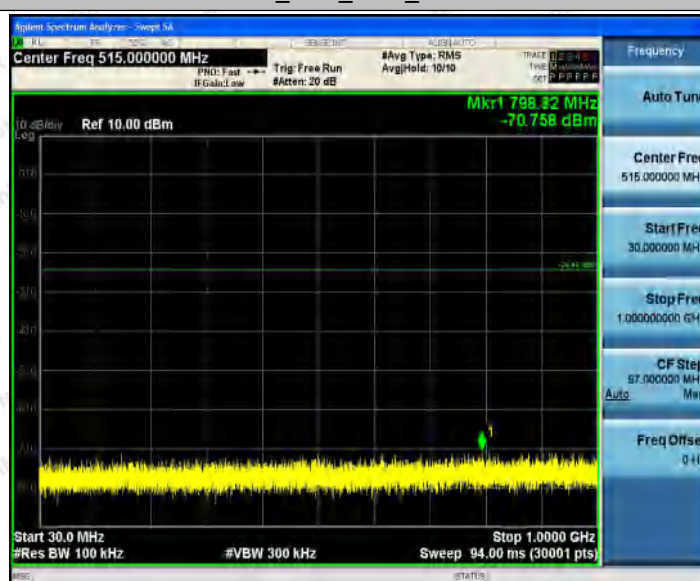
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11N40_Ant2_2437_0~Reference



11N40_Ant2_2437_30~1000



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11N40_Ant2_2437_1000~26500



11N40_Ant1_2452_0~Reference



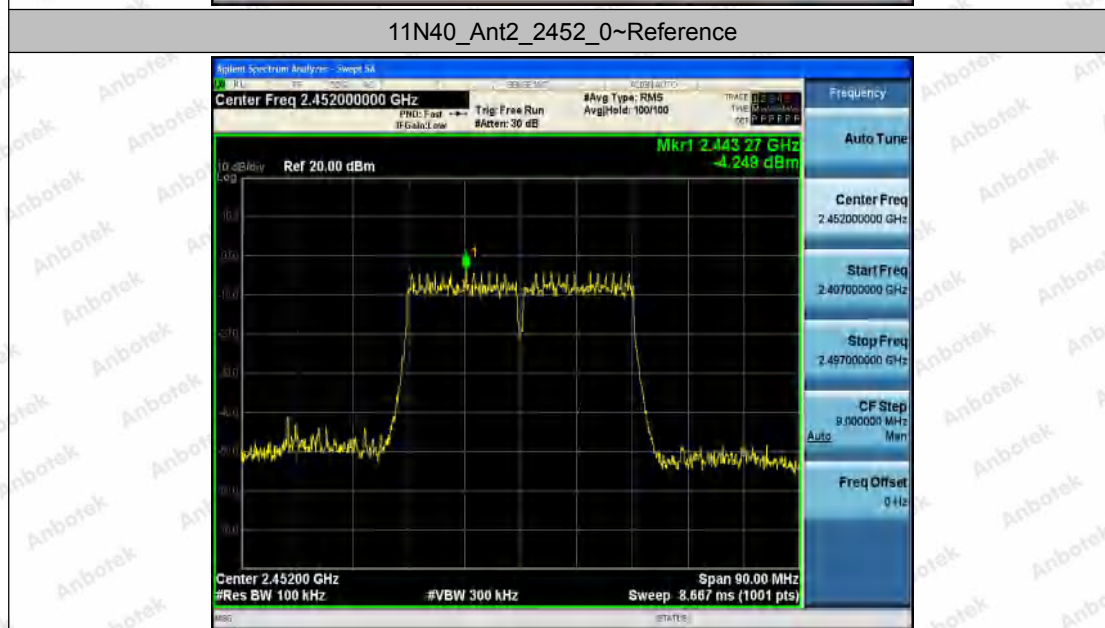
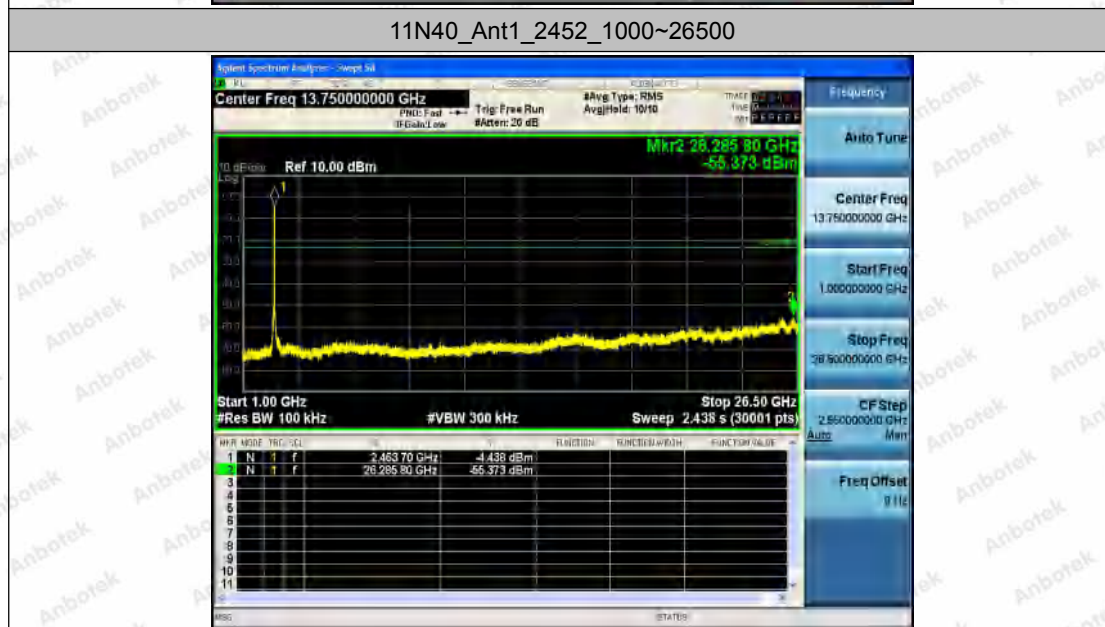
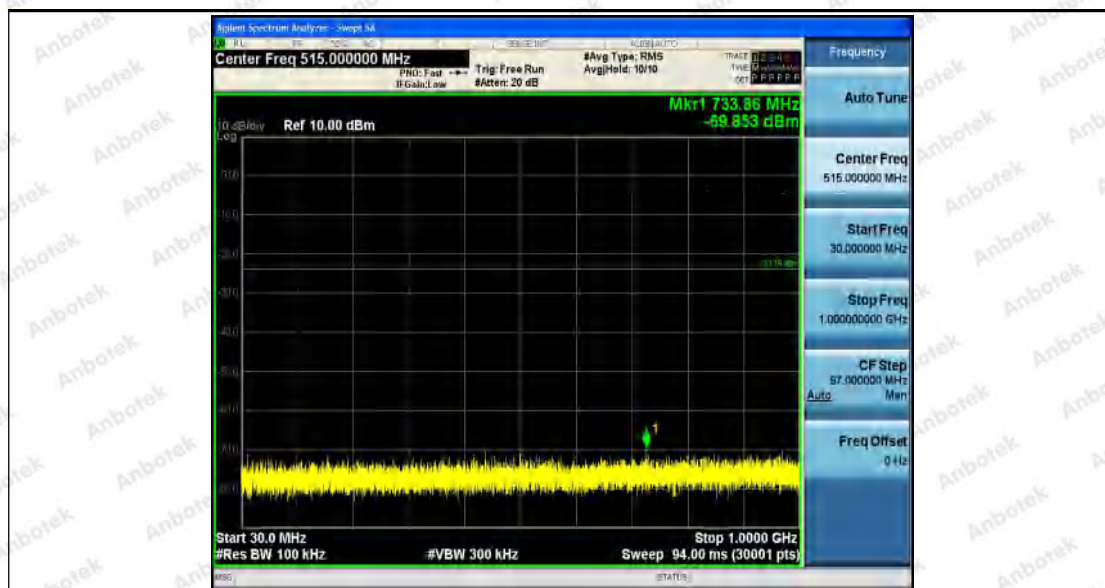
11N40_Ant1_2452_30~1000

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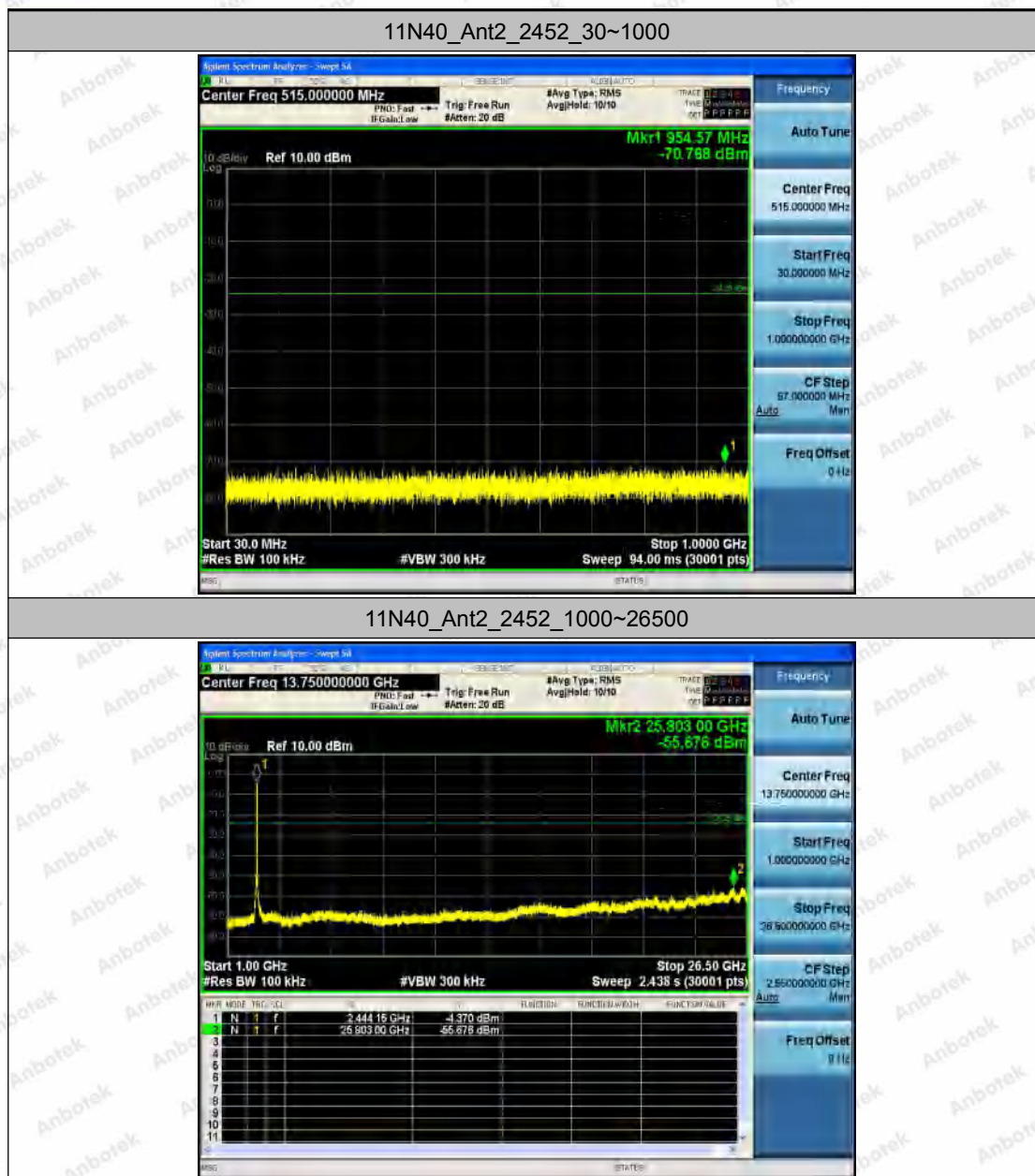


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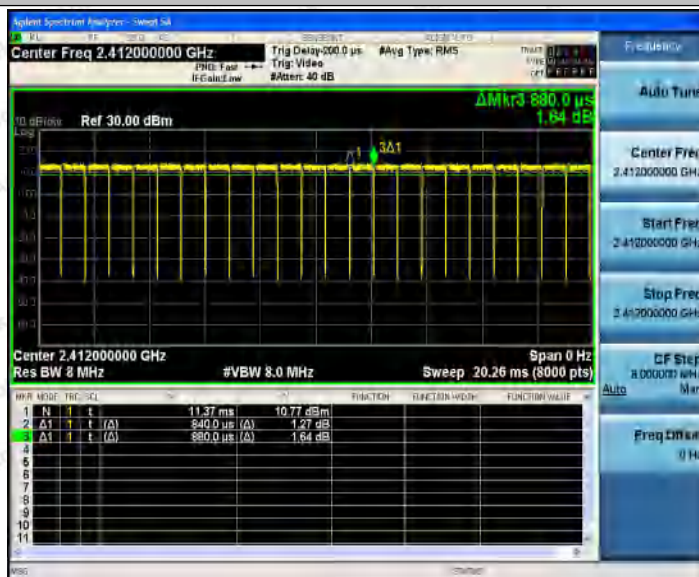
Appendix G: Duty Cycle

Test Result

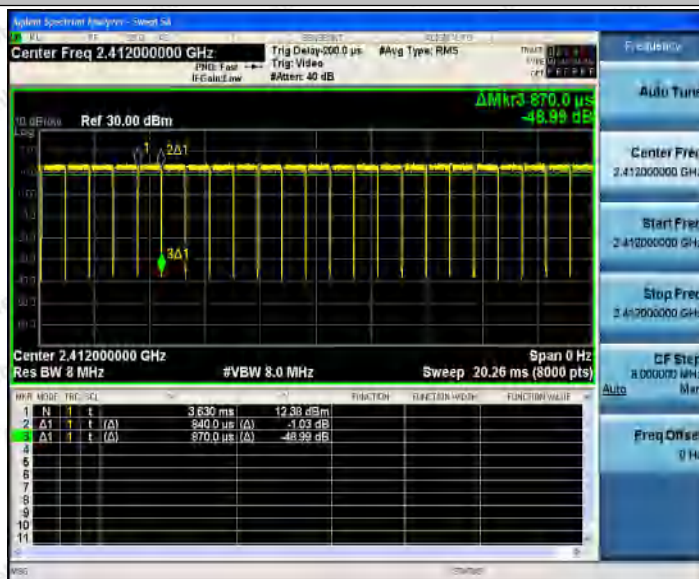
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	0.84	0.88	95.45	---	PASS
	Ant2	2412	0.84	0.87	96.55	---	PASS
	Ant1	2437	0.85	0.88	96.59	---	PASS
	Ant2	2437	0.84	0.88	95.45	---	PASS
	Ant1	2462	0.84	0.88	95.45	---	PASS
	Ant2	2462	0.84	0.88	95.45	---	PASS
11G	Ant1	2412	0.16	0.21	76.19	---	PASS
	Ant2	2412	0.17	0.22	77.27	---	PASS
	Ant1	2437	0.18	0.22	81.82	---	PASS
	Ant2	2437	0.17	0.21	80.95	---	PASS
	Ant1	2462	0.17	0.21	80.95	---	PASS
	Ant2	2462	0.18	0.22	81.82	---	PASS
11N20	Ant1	2412	0.16	0.20	80.00	---	PASS
	Ant2	2412	0.16	0.21	76.19	---	PASS
	Ant1	2437	0.17	0.21	80.95	---	PASS
	Ant2	2437	0.17	0.21	80.95	---	PASS
	Ant1	2462	0.16	0.20	80.00	---	PASS
	Ant2	2462	0.17	0.21	80.95	---	PASS
11N40	Ant1	2422	0.10	0.14	71.43	---	PASS
	Ant2	2422	0.10	0.14	71.43	---	PASS
	Ant1	2437	0.10	0.14	71.43	---	PASS
	Ant2	2437	0.10	0.15	66.67	---	PASS
	Ant1	2452	0.10	0.14	71.43	---	PASS
	Ant2	2452	0.10	0.14	71.43	---	PASS

Test Graphs

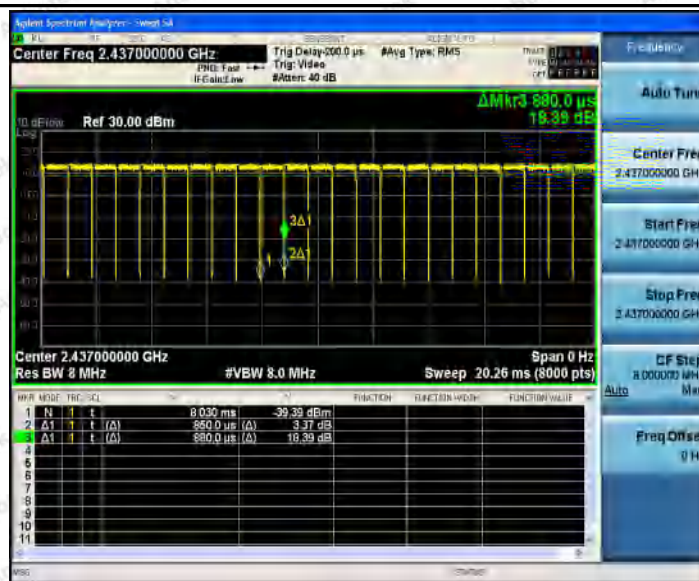
11B_Ant1_2412



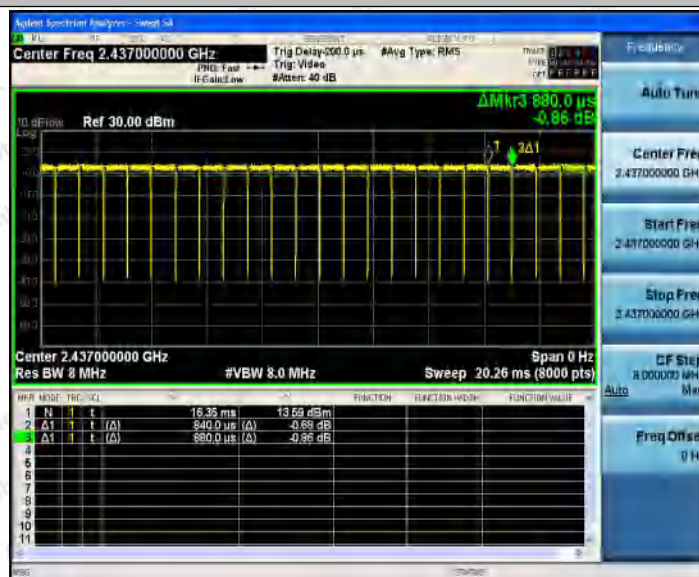
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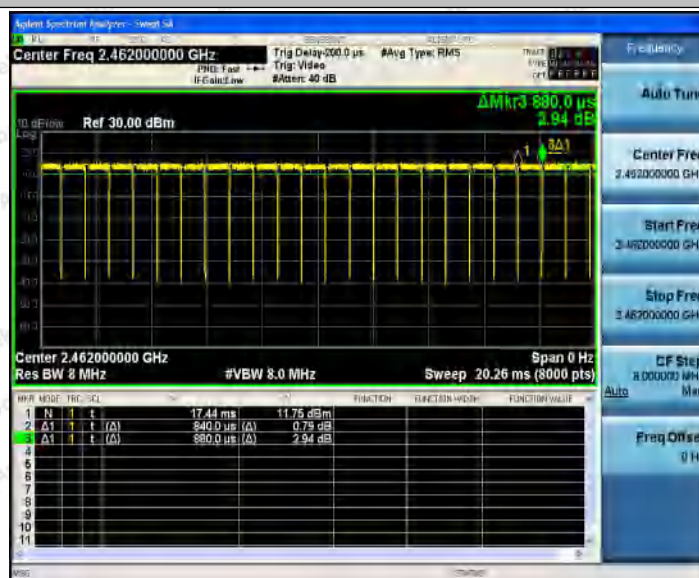
11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



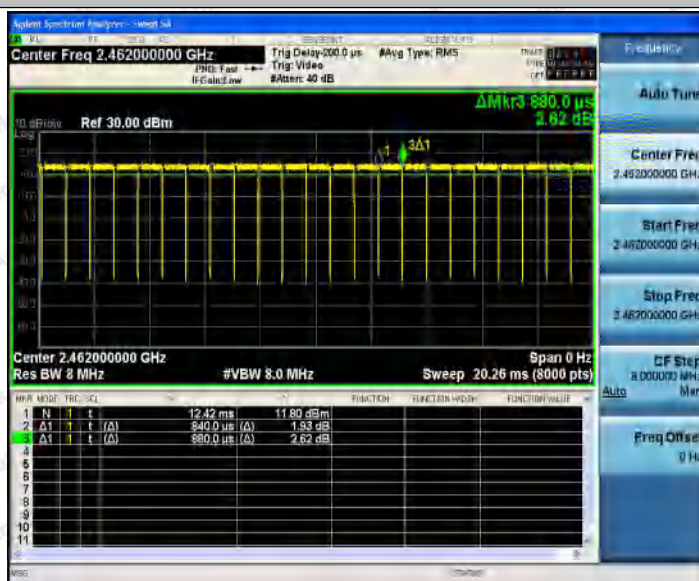
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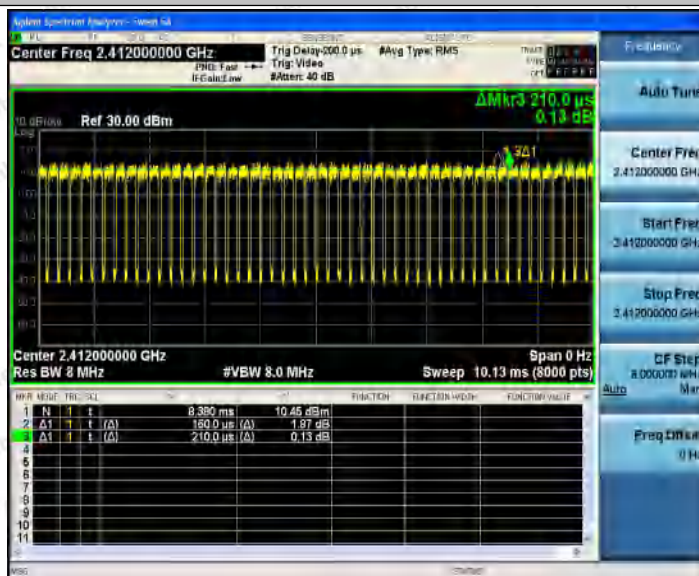
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11B_Ant2_2462



11G_Ant1_2412



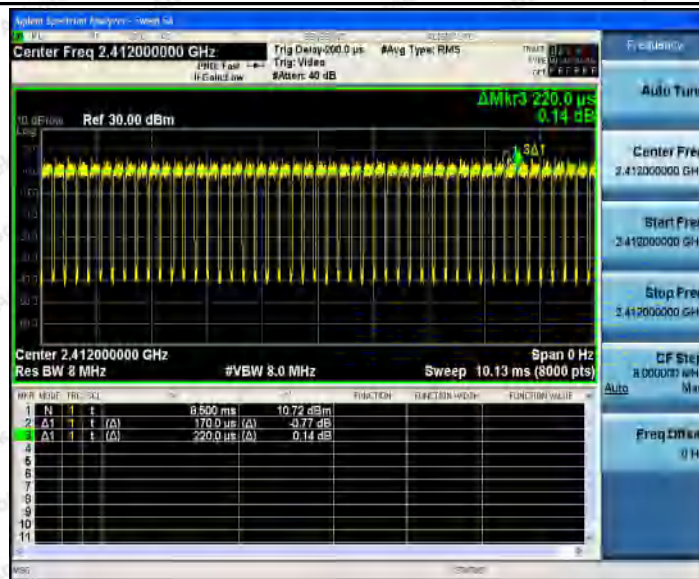
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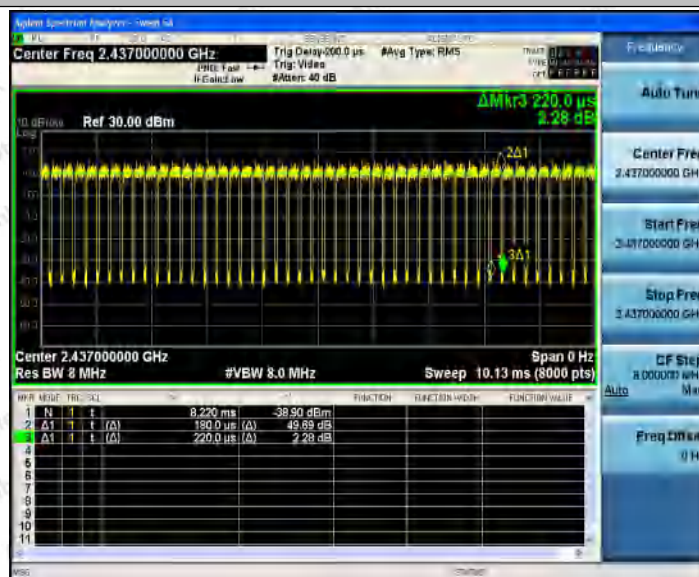
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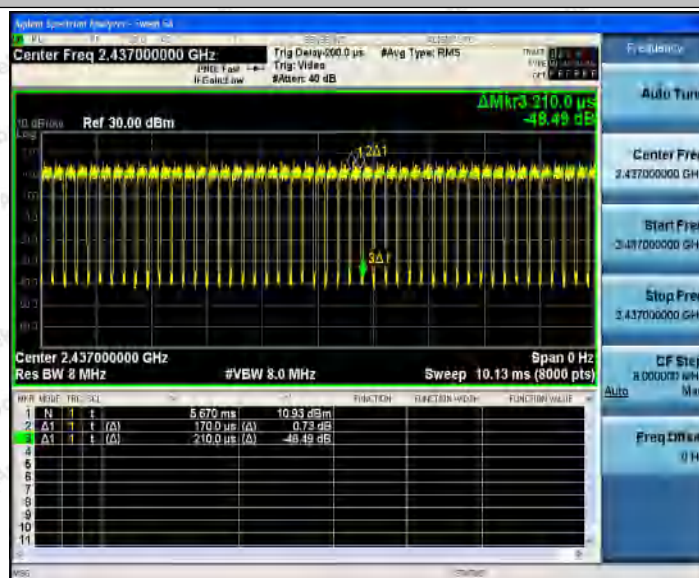
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11G_Ant1_2437



11G_Ant2_2437



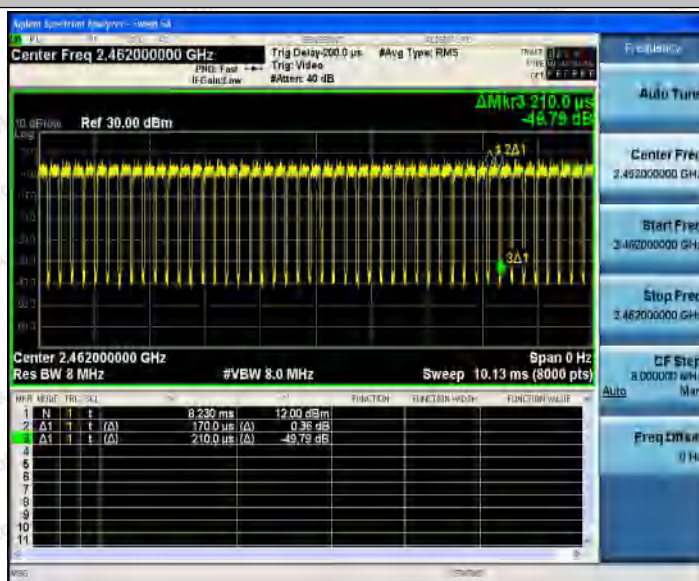
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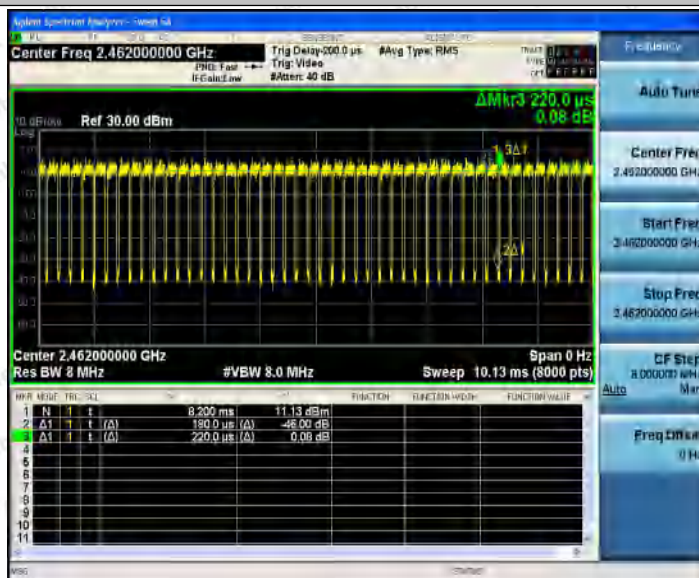
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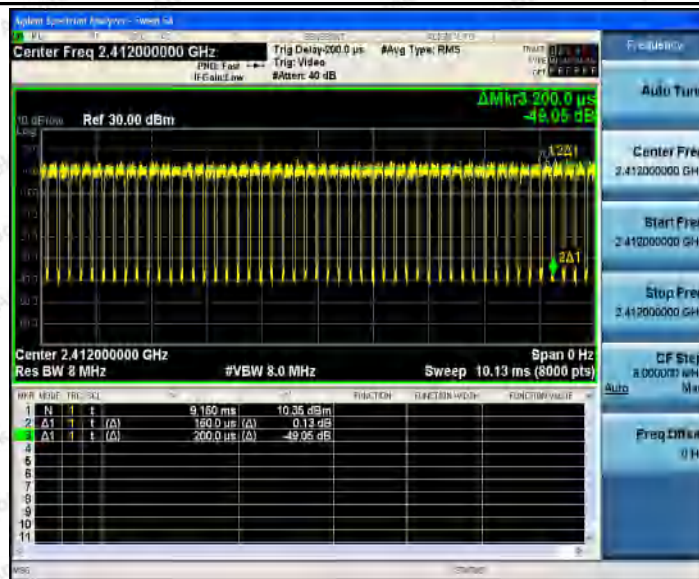
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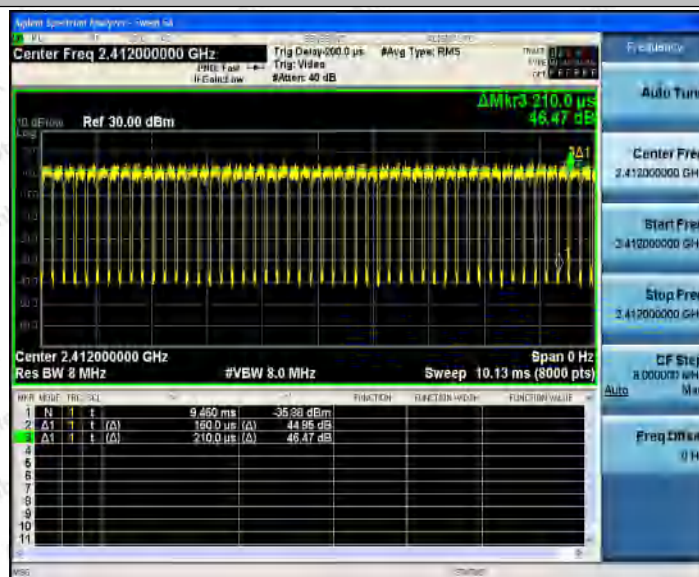
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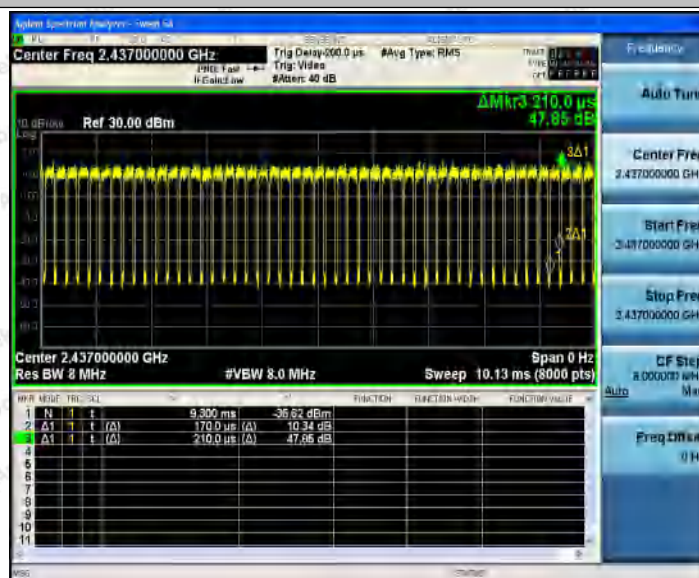
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11N20_Ant2_2412



11N20_Ant1_2437



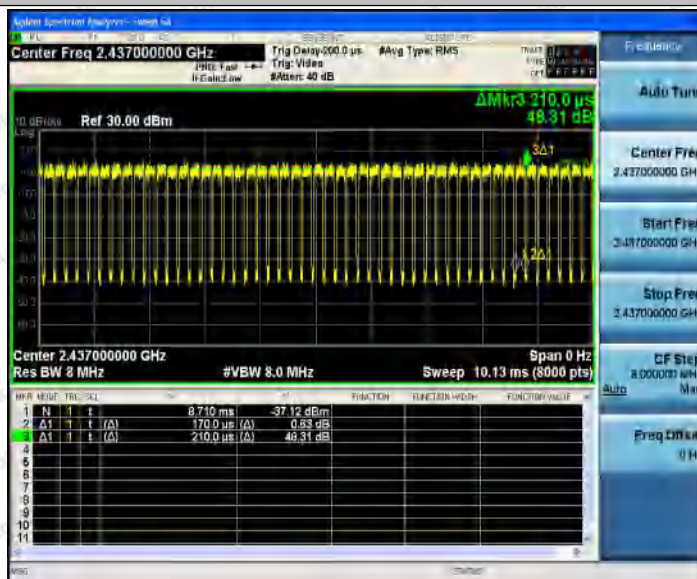
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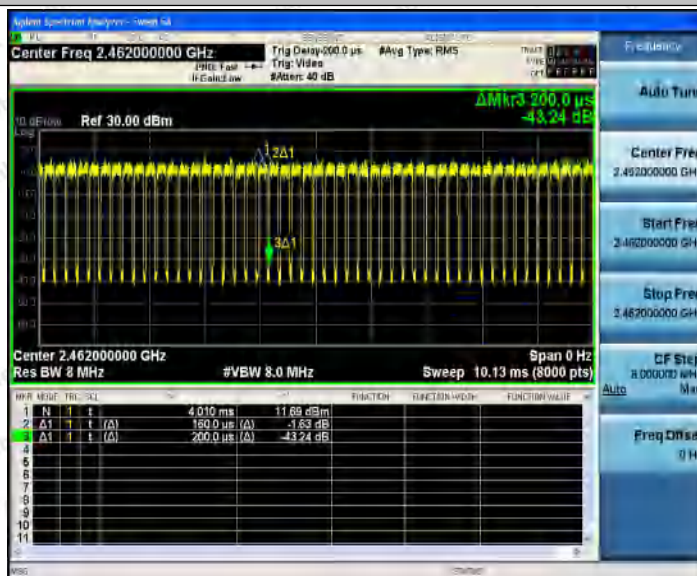
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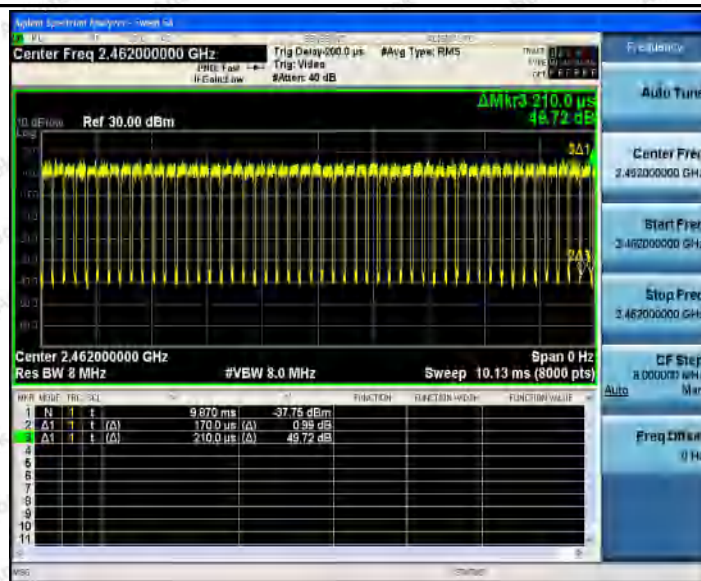
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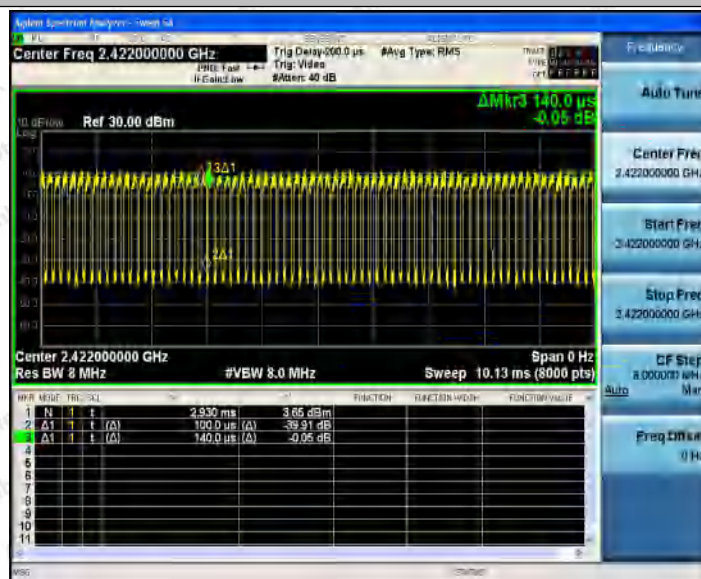
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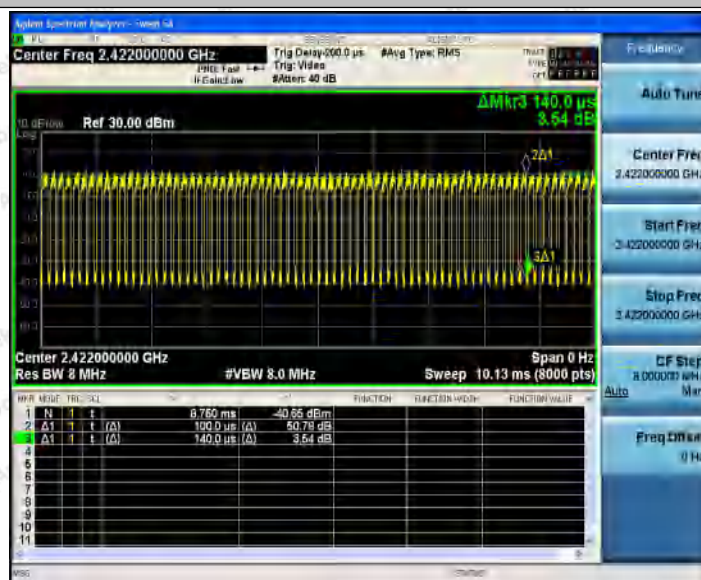
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11N40_Ant1_2422



11N40_Ant2_2422



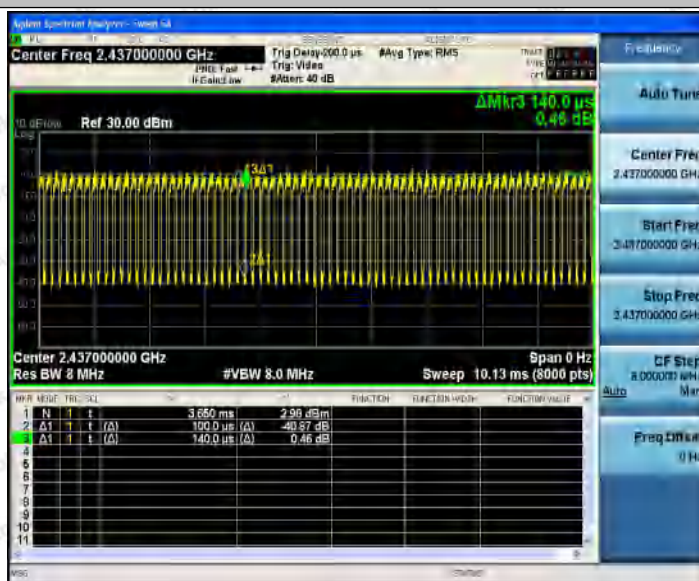
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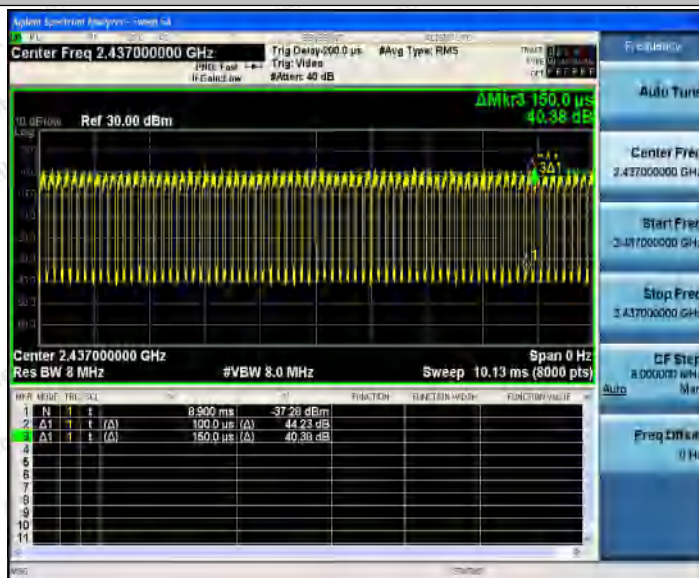
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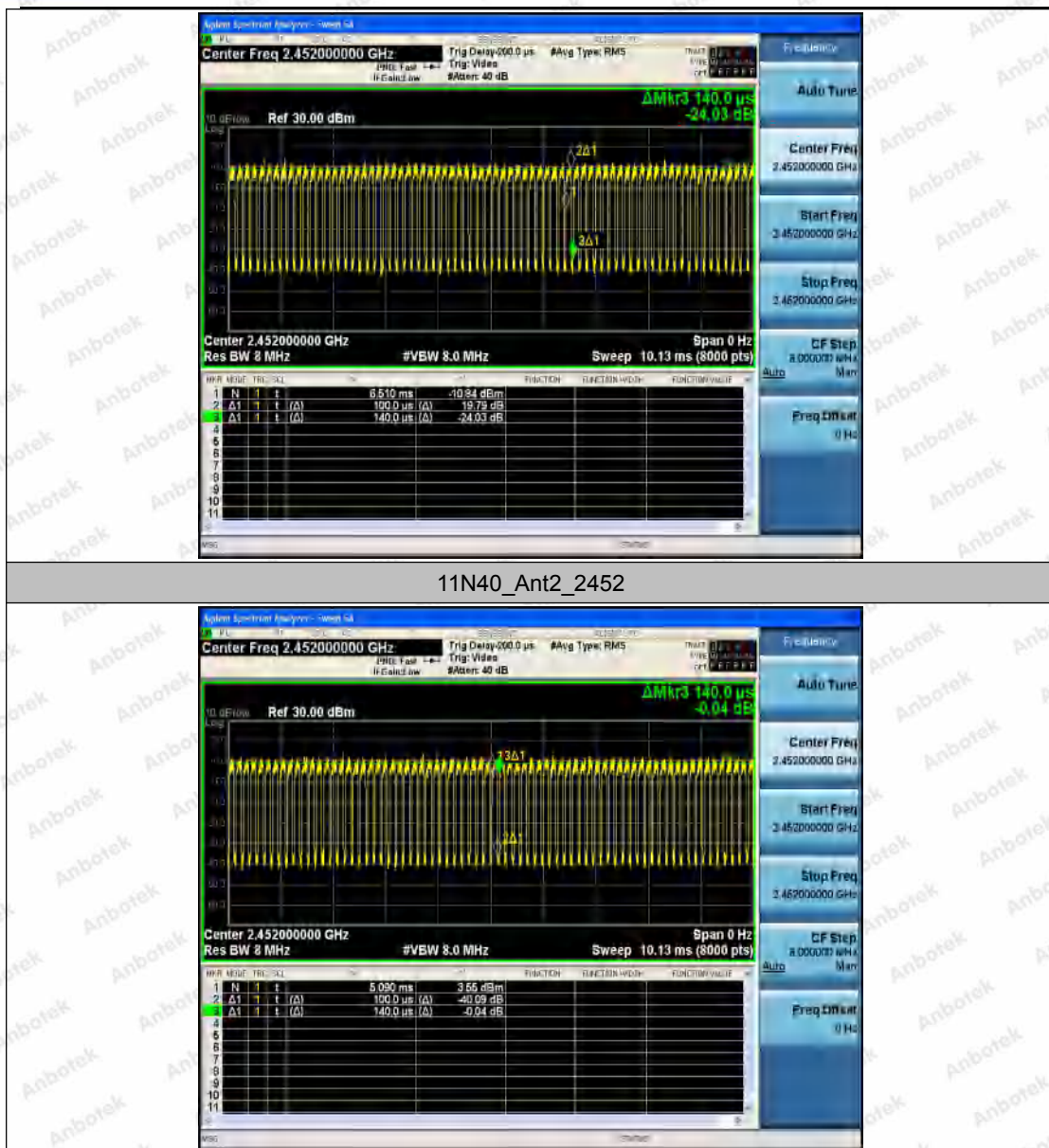
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



---End---