

Appendix Test Data

Report No.:	18220WC10218701	Test Date:	2021.10.25
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

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	≥0.5	PASS
	Ant2	2412	9.160	2407.400	2416.560	≥0.5	PASS
	Ant1	2437	8.680	2432.880	2441.560	≥0.5	PASS
	Ant2	2437	9.160	2432.400	2441.560	≥0.5	PASS
	Ant1	2462	9.120	2457.440	2466.560	≥0.5	PASS
	Ant2	2462	9.200	2457.400	2466.600	≥0.5	PASS
11G	Ant1	2412	16.080	2403.840	2419.920	≥0.5	PASS
	Ant2	2412	16.000	2403.800	2419.800	≥0.5	PASS
	Ant1	2437	16.120	2428.800	2444.920	≥0.5	PASS
	Ant2	2437	16.160	2428.800	2444.960	≥0.5	PASS
	Ant1	2462	15.760	2454.040	2469.800	≥0.5	PASS
	Ant2	2462	15.760	2454.400	2470.160	≥0.5	PASS
11N20	Ant1	2412	16.400	2404.000	2420.400	≥0.5	PASS
	Ant2	2412	16.760	2403.400	2420.160	≥0.5	PASS
	Ant1	2437	17.000	2428.440	2445.440	≥0.5	PASS
	Ant2	2437	16.720	2428.800	2445.520	≥0.5	PASS
	Ant1	2462	16.040	2453.800	2469.840	≥0.5	PASS
	Ant2	2462	16.760	2453.800	2470.560	≥0.5	PASS
11N40	Ant1	2422	35.160	2404.360	2439.520	≥0.5	PASS
	Ant2	2422	35.640	2404.000	2439.640	≥0.5	PASS
	Ant1	2437	35.160	2419.420	2454.580	≥0.5	PASS
	Ant2	2437	35.220	2419.360	2454.580	≥0.5	PASS
	Ant1	2452	35.220	2434.360	2469.580	≥0.5	PASS
	Ant2	2452	35.220	2434.420	2469.640	≥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



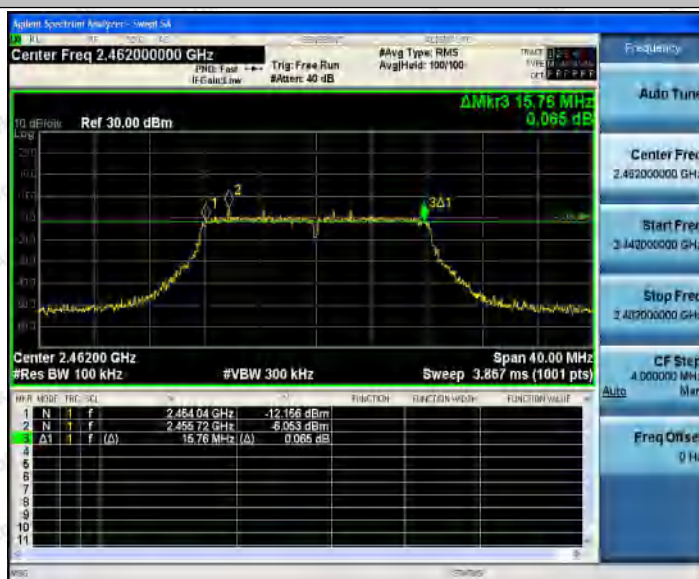
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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2437



11N20_Ant1_2462



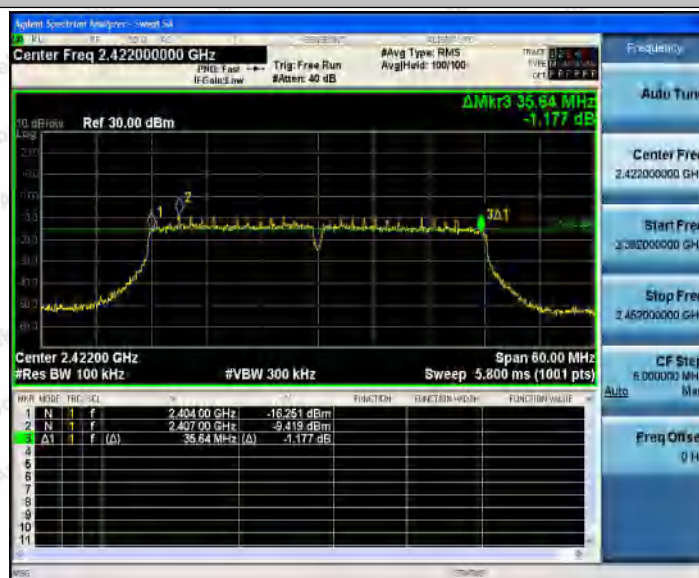
11N20_Ant2_2462



11N40_Ant1_2422



11N40_Ant2_2422



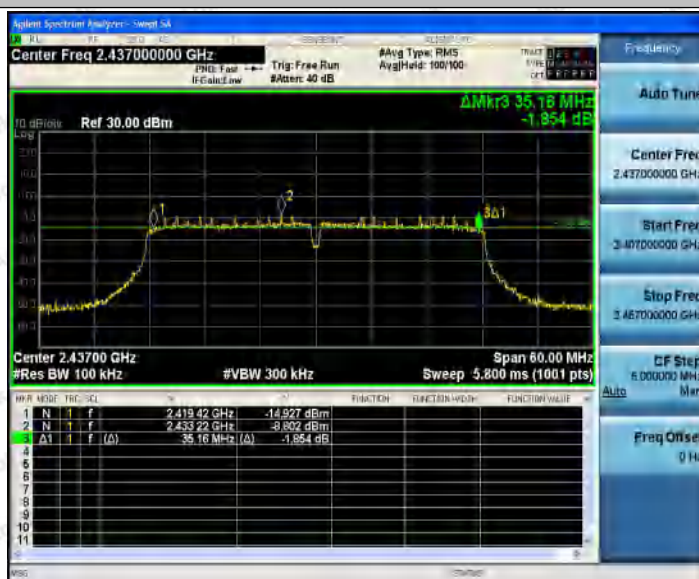
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11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



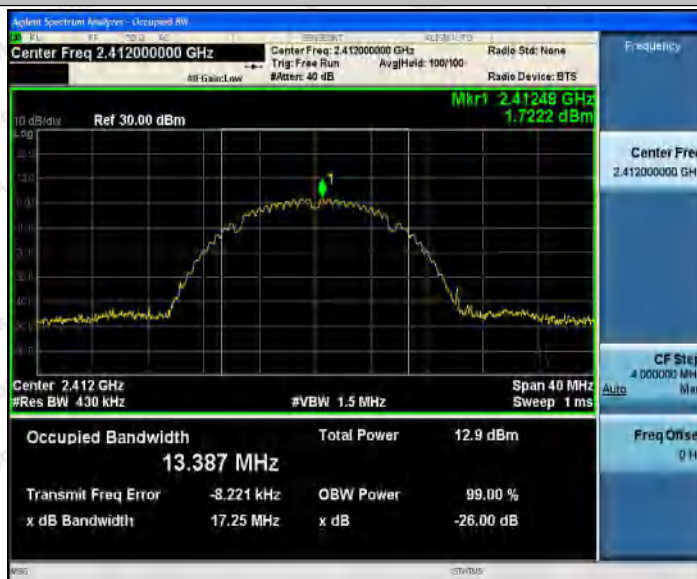
Appendix B: Occupied Channel Bandwidth

Test Result

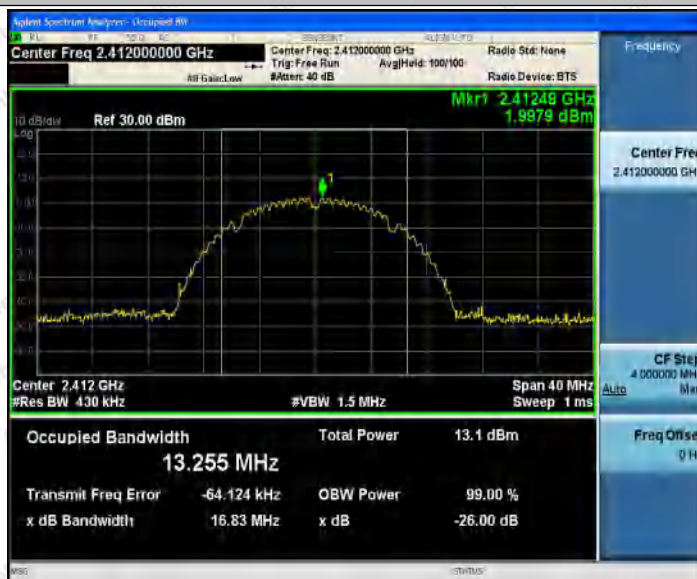
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	Ant2	2412	13.255	2405.308	2418.563	---	PASS
	Ant1	2437	13.455	2430.236	2443.691	---	PASS
	Ant2	2437	13.291	2430.344	2443.635	---	PASS
	Ant1	2462	13.434	2455.256	2468.690	---	PASS
	Ant2	2462	13.285	2455.434	2468.719	---	PASS
11G	Ant1	2412	16.712	2403.641	2420.353	---	PASS
	Ant2	2412	16.728	2403.562	2420.290	---	PASS
	Ant1	2437	16.708	2428.601	2445.309	---	PASS
	Ant2	2437	16.674	2428.625	2445.299	---	PASS
	Ant1	2462	16.787	2453.623	2470.410	---	PASS
	Ant2	2462	16.746	2453.642	2470.388	---	PASS
11N20	Ant1	2412	17.695	2403.152	2420.847	---	PASS
	Ant2	2412	17.670	2403.118	2420.788	---	PASS
	Ant1	2437	17.616	2428.163	2445.779	---	PASS
	Ant2	2437	17.718	2428.123	2445.841	---	PASS
	Ant1	2462	17.661	2453.164	2470.825	---	PASS
	Ant2	2462	17.652	2453.219	2470.871	---	PASS
11N40	Ant1	2422	36.071	2403.940	2440.011	---	PASS
	Ant2	2422	36.150	2403.863	2440.013	---	PASS
	Ant1	2437	36.106	2418.947	2455.053	---	PASS
	Ant2	2437	36.102	2418.927	2455.029	---	PASS
	Ant1	2452	36.152	2433.927	2470.079	---	PASS
	Ant2	2452	36.141	2433.951	2470.092	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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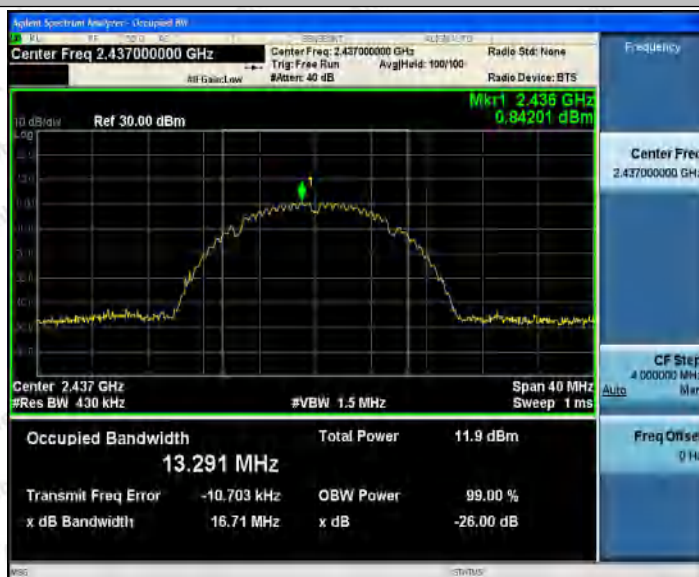
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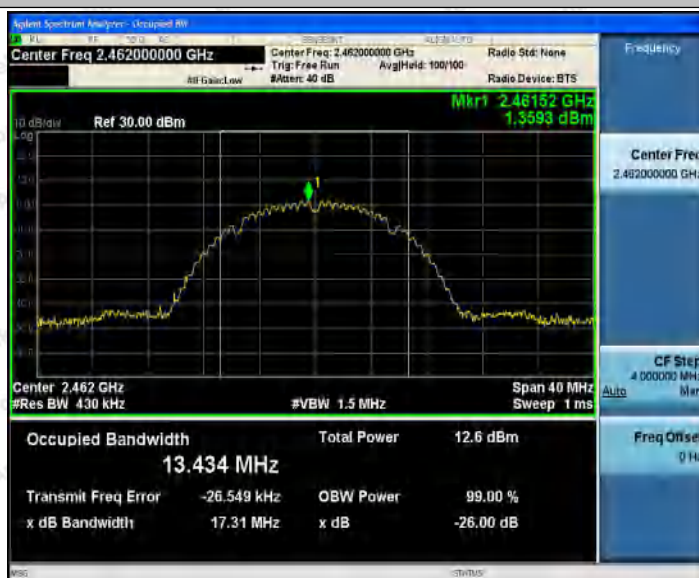
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11B_Ant2_2437



11B_Ant1_2462



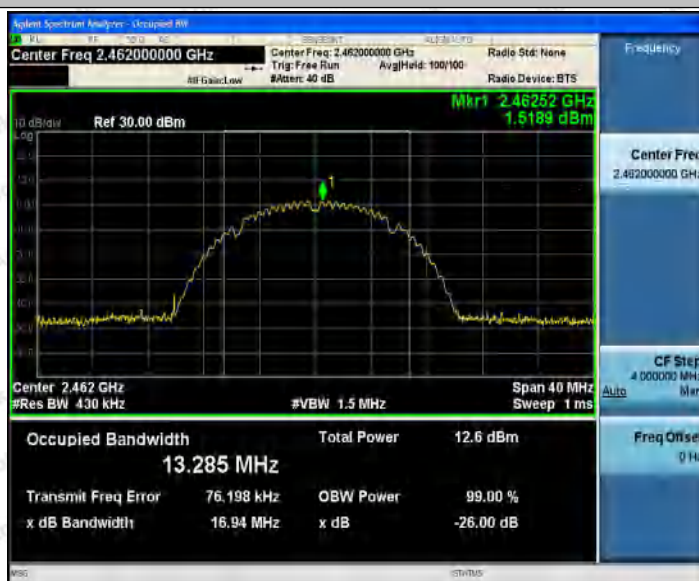
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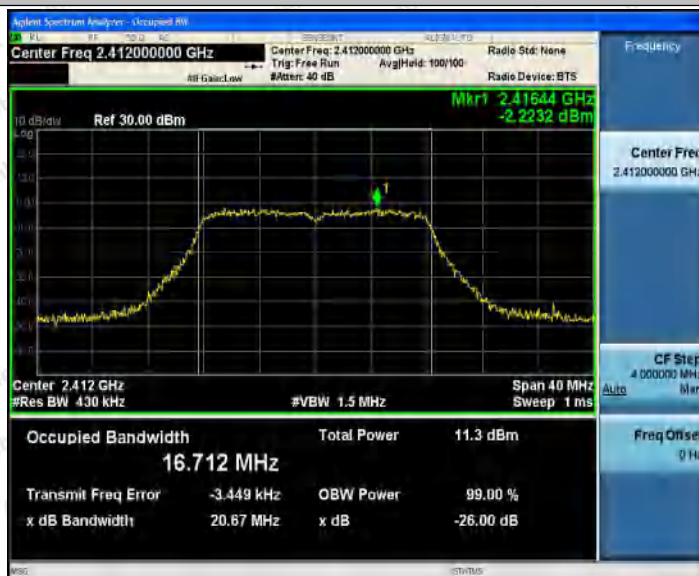
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11B_Ant2_2462



11G_Ant1_2412



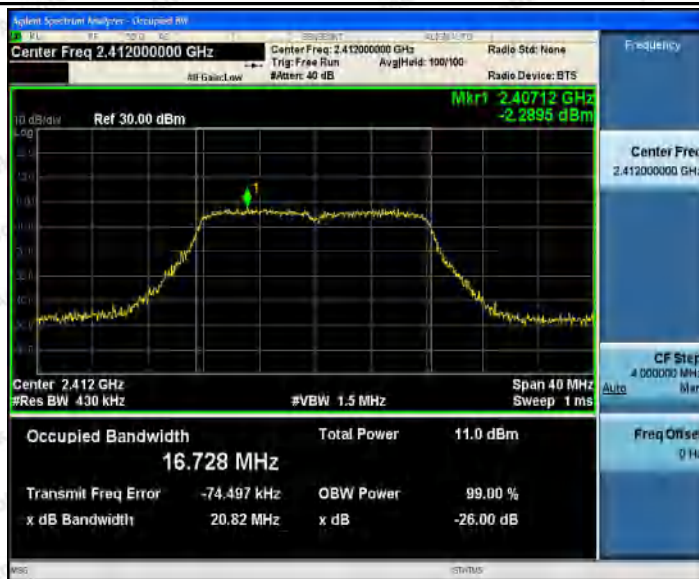
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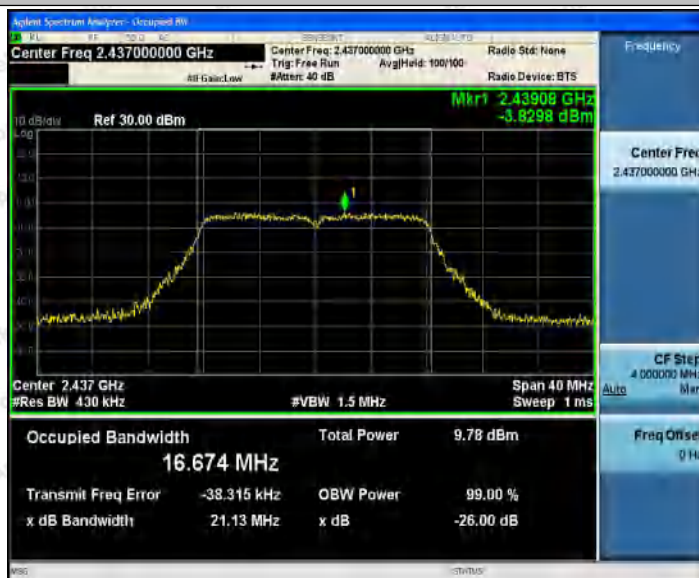
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11G_Ant1_2437



11G_Ant2_2437



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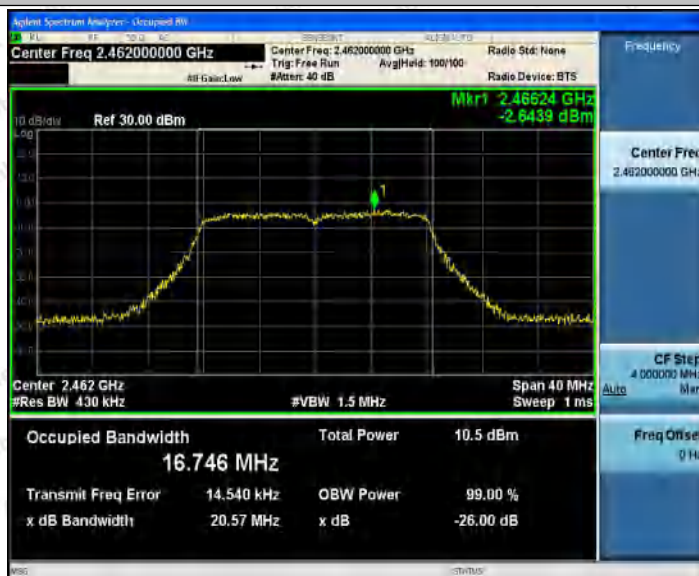
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11G_Ant1_2462



11G_Ant2_2462



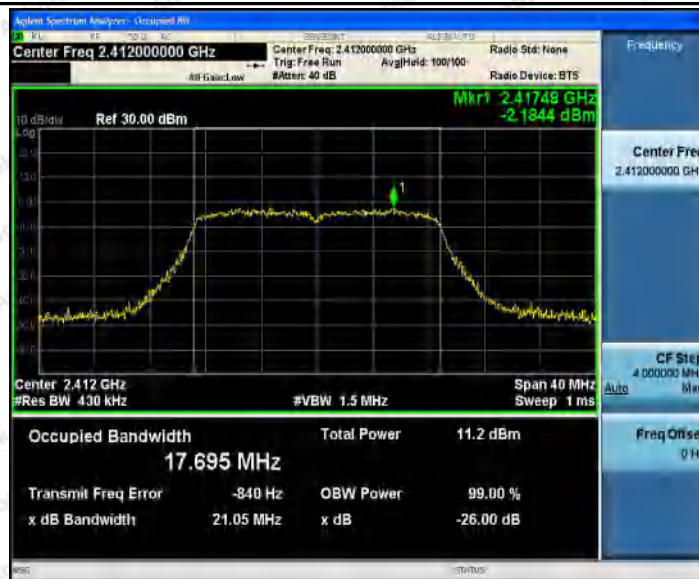
11N20_Ant1_2412

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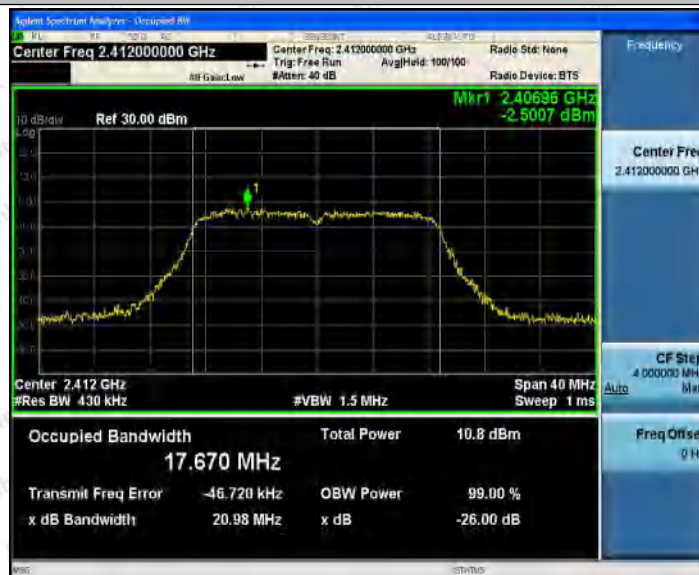
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11N20_Ant2_2412



11N20_Ant1_2437



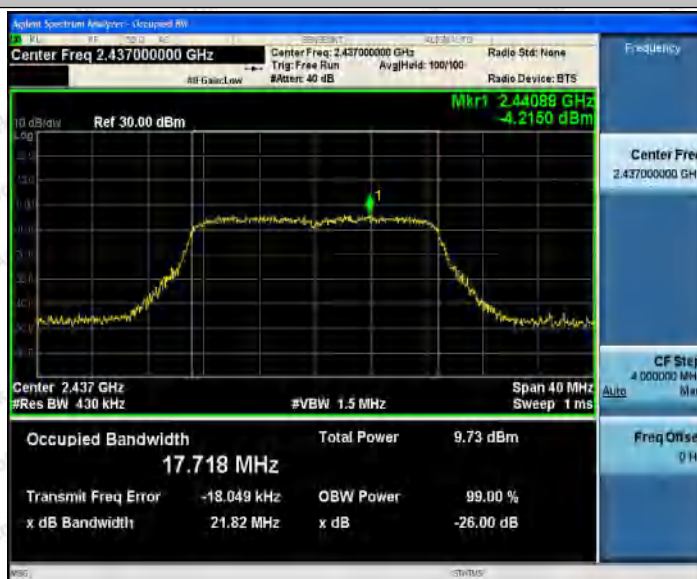
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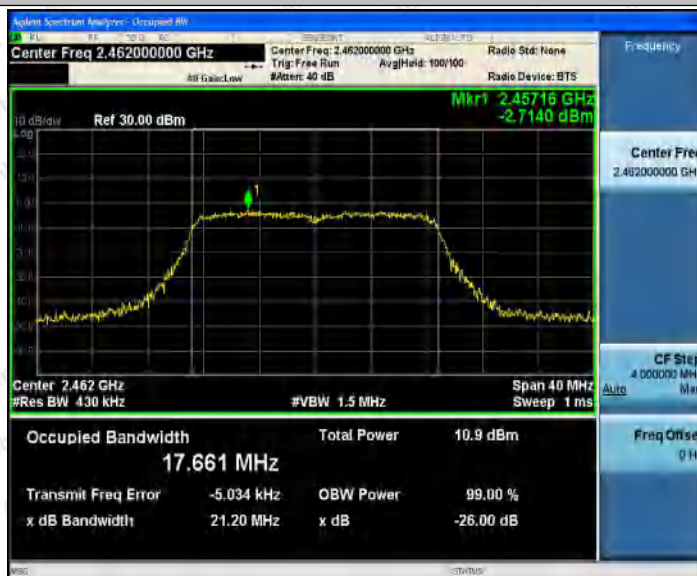
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11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462

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11N40_Ant1_2422



11N40_Ant2_2422



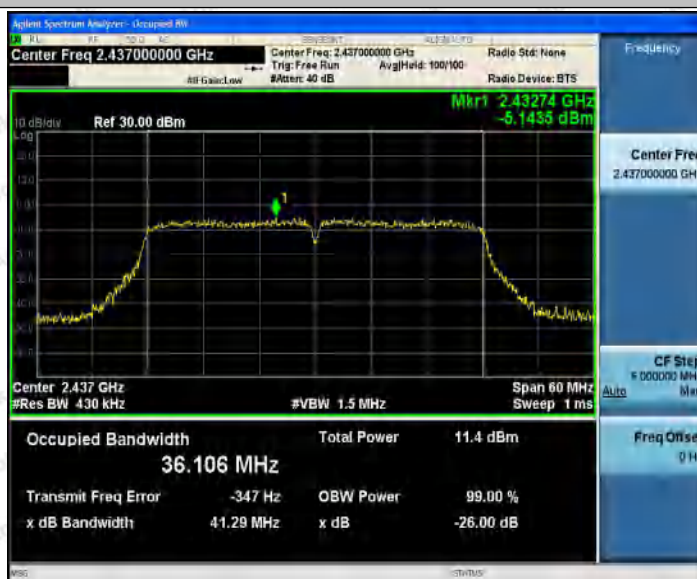
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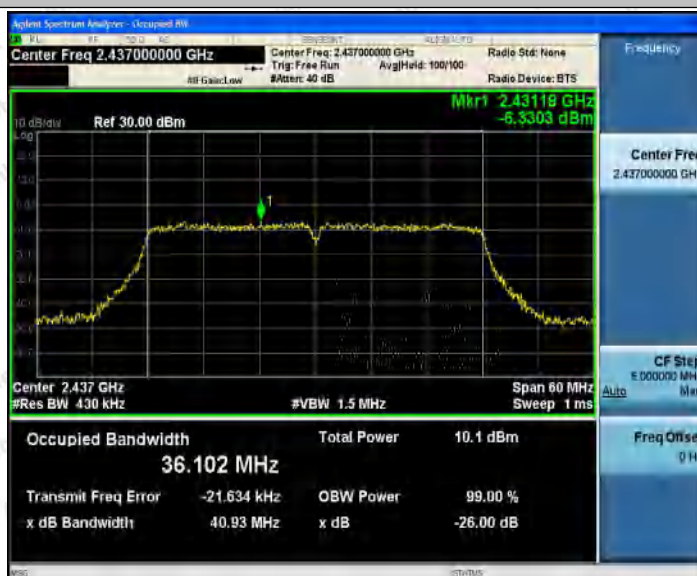
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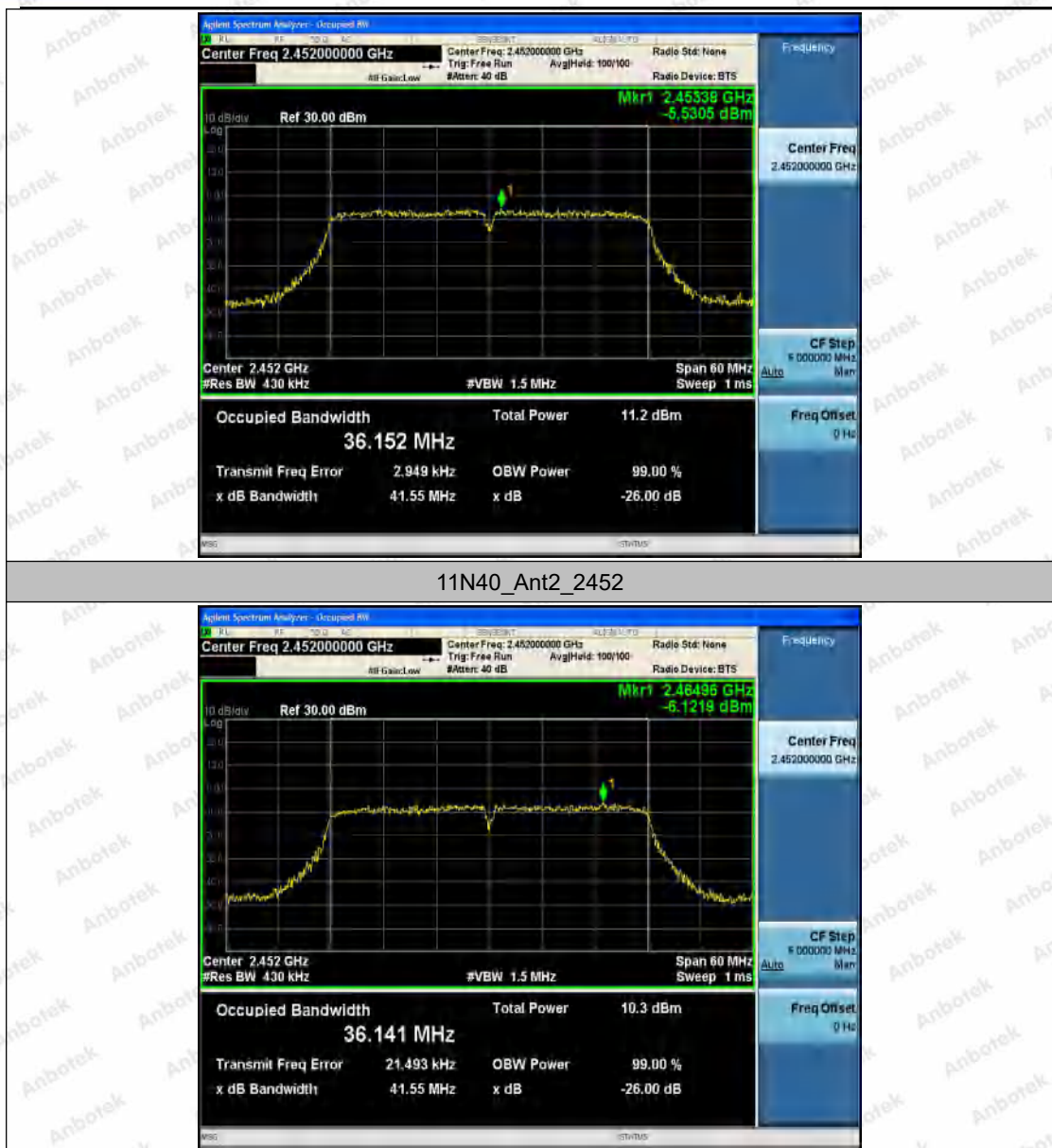
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.05	≤30	PASS
	Ant2	2412	13.22	≤30	PASS
	Ant1	2437	13.13	≤30	PASS
	Ant2	2437	12.09	≤30	PASS
	Ant1	2462	12.66	≤30	PASS
	Ant2	2462	12.75	≤30	PASS
11G	Ant1	2412	12.46	≤30	PASS
	Ant2	2412	12.17	≤30	PASS
	Ant1	2437	12.45	≤30	PASS
	Ant2	2437	11.02	≤30	PASS
	Ant1	2462	12.06	≤30	PASS
	Ant2	2462	11.81	≤30	PASS
11N20	Ant1	2412	12.37	≤30	PASS
	Ant2	2412	11.90	≤30	PASS
	Ant1	2437	12.32	≤30	PASS
	Ant2	2437	10.84	≤30	PASS
	Ant1	2462	12.05	≤30	PASS
	Ant2	2462	11.66	≤30	PASS
11N40	Ant1	2422	10.26	≤30	PASS
	Ant2	2422	9.08	≤30	PASS
	Ant1	2437	10.01	≤30	PASS
	Ant2	2437	8.75	≤30	PASS
	Ant1	2452	9.83	≤30	PASS
	Ant2	2452	8.79	≤30	PASS

MIMO

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	2412	16.146	≤30	PASS
	2437	15.651	≤30	PASS
	2462	15.716	≤30	PASS
11G	2412	15.328	≤30	PASS
	2437	14.804	≤30	PASS
	2462	14.947	≤30	PASS
11N20	2412	15.152	≤30	PASS
	2437	14.653	≤30	PASS
	2462	14.870	≤30	PASS

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11N40	2422	12.720	≤30	PASS
	2437	12.436	≤30	PASS
	2452	12.351	≤30	PASS

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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.18	≤8	PASS
	Ant2	2412	-12.91	≤8	PASS
	Ant1	2437	-12.86	≤8	PASS
	Ant2	2437	-12.82	≤8	PASS
	Ant1	2462	-11.87	≤8	PASS
	Ant2	2462	-12.69	≤8	PASS
11G	Ant1	2412	-19.53	≤8	PASS
	Ant2	2412	-20.65	≤8	PASS
	Ant1	2437	-19.29	≤8	PASS
	Ant2	2437	-21.34	≤8	PASS
	Ant1	2462	-18.28	≤8	PASS
	Ant2	2462	-19.44	≤8	PASS
11N20	Ant1	2412	-20.52	≤8	PASS
	Ant2	2412	-20.34	≤8	PASS
	Ant1	2437	-20.69	≤8	PASS
	Ant2	2437	-21.73	≤8	PASS
	Ant1	2462	-20.93	≤8	PASS
	Ant2	2462	-19.87	≤8	PASS
11N40	Ant1	2422	-22.04	≤8	PASS
	Ant2	2422	-23.92	≤8	PASS
	Ant1	2437	-23.09	≤8	PASS
	Ant2	2437	-23.8	≤8	PASS
	Ant1	2452	-23.76	≤8	PASS
	Ant2	2452	-24.04	≤8	PASS

MIMO

TestMode	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-10.033	≤8	PASS
	2437	-9.830	≤8	PASS
	2462	-9.250	≤8	PASS
11G	2412	-17.044	≤8	PASS
	2437	-17.185	≤8	PASS
	2462	-15.811	≤8	PASS
11N20	2412	-17.419	≤8	PASS
	2437	-18.169	≤8	PASS
	2462	-17.357	≤8	PASS

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11N40	2422	-19.869	≤8	PASS
	2437	-20.420	≤8	PASS
	2452	-20.887	≤8	PASS

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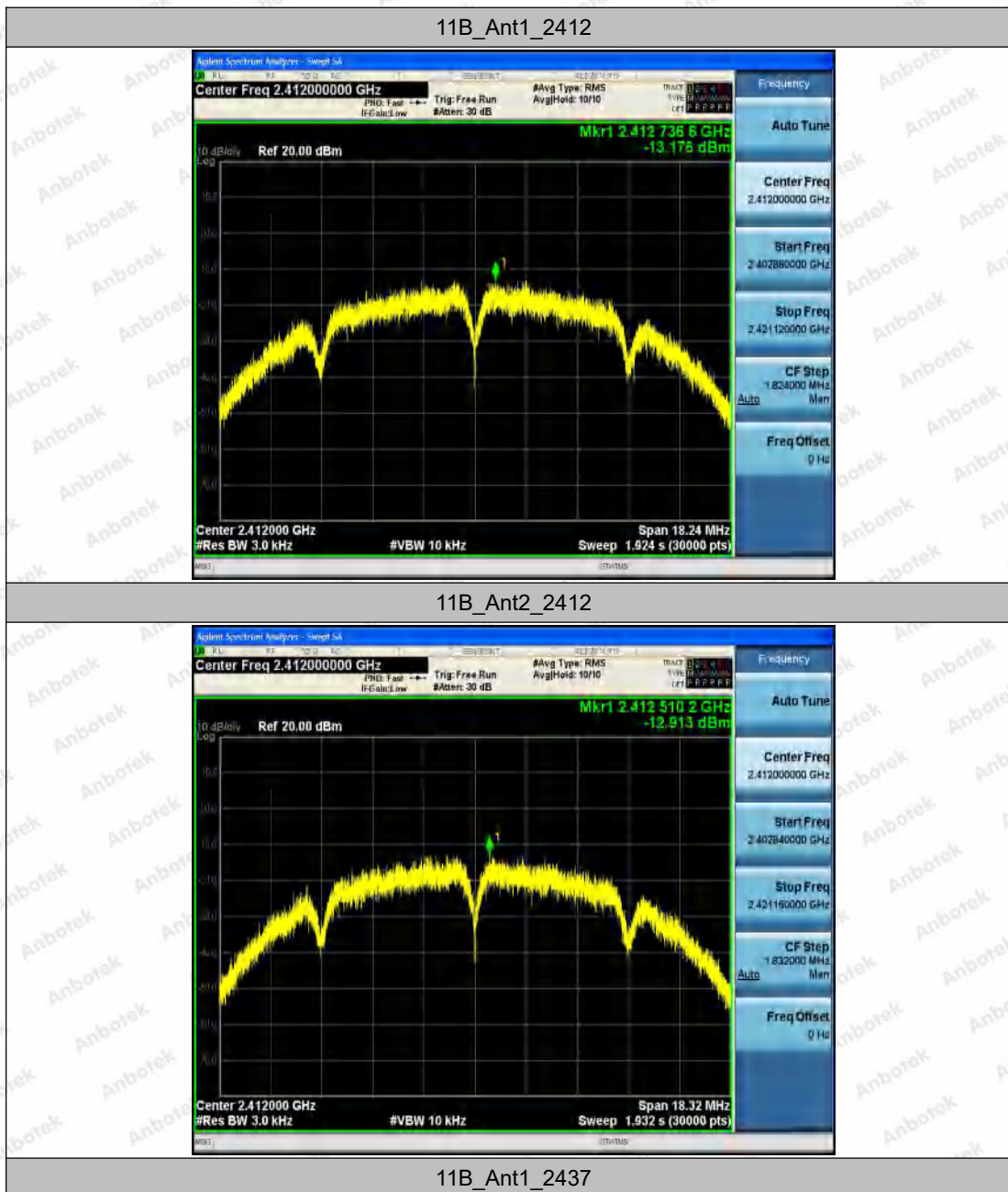
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Test Graphs

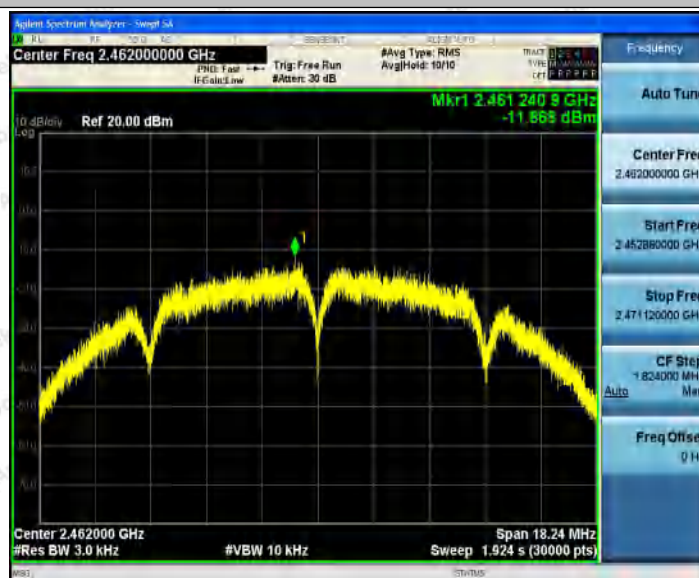




11B_Ant2_2437



11B_Ant1_2462



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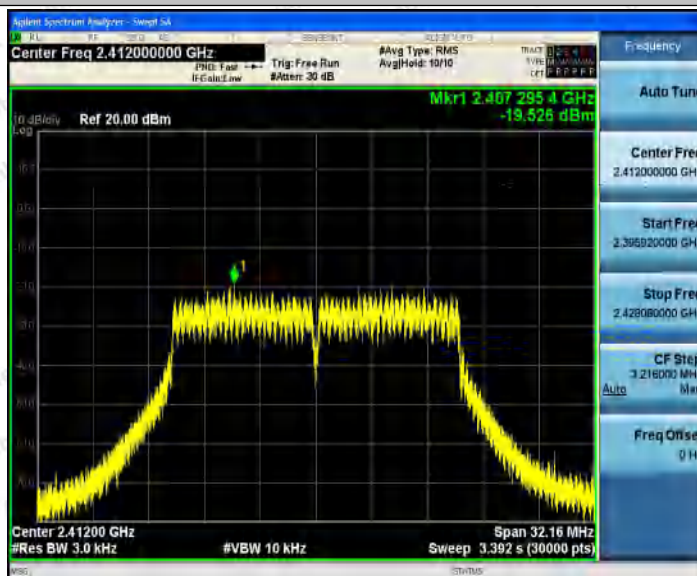
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11B_Ant2_2462



11G_Ant1_2412



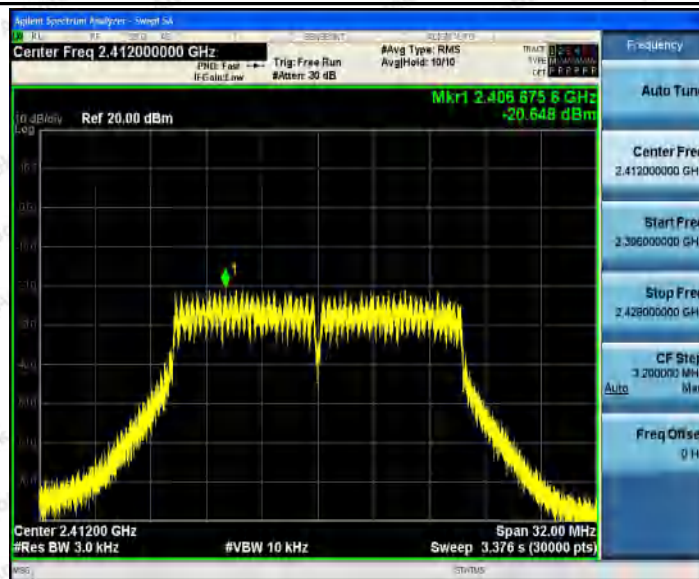
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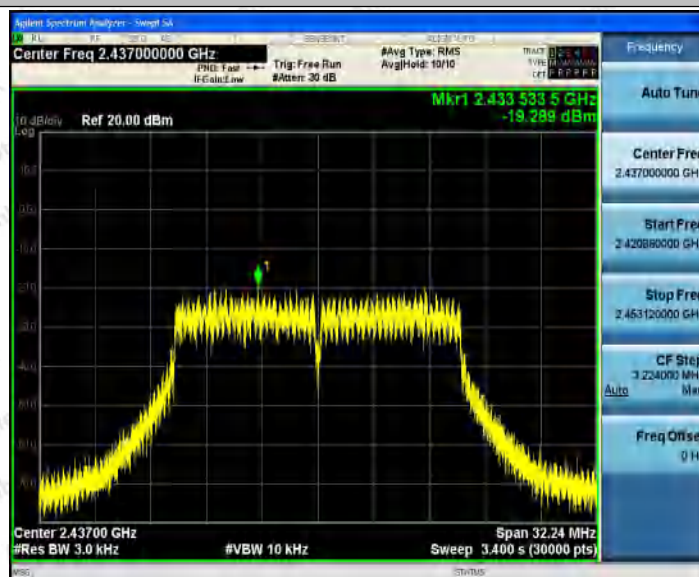
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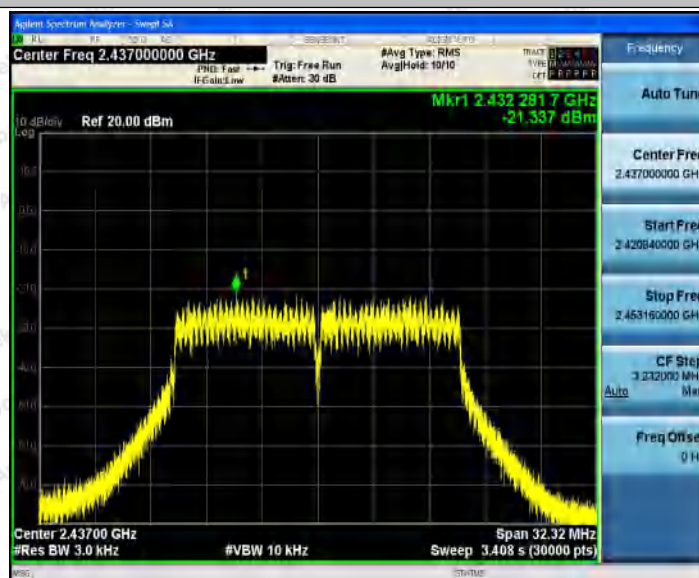
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11G_Ant1_2437



11G_Ant2_2437



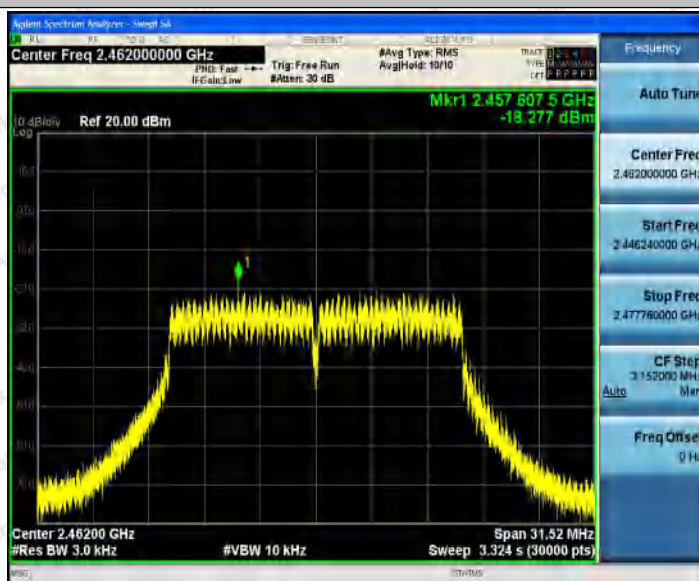
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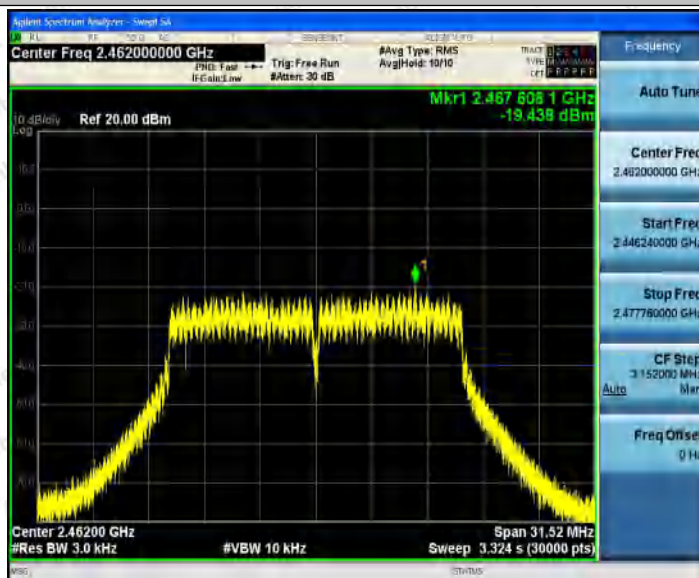
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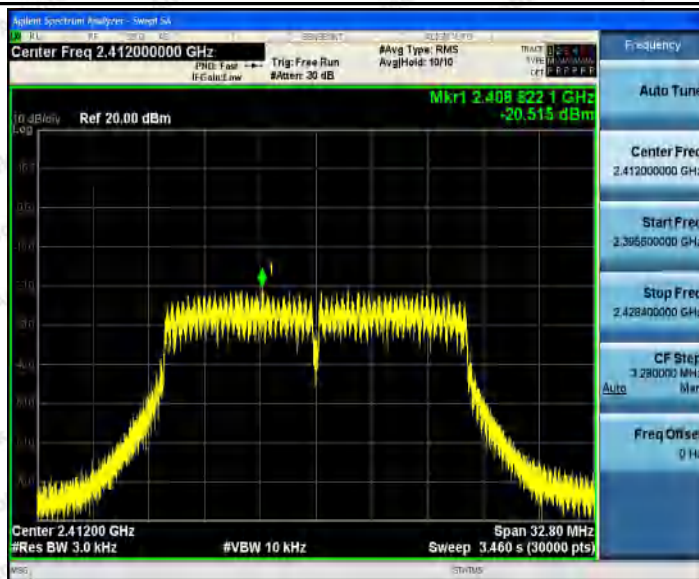
11G_Ant1_2462



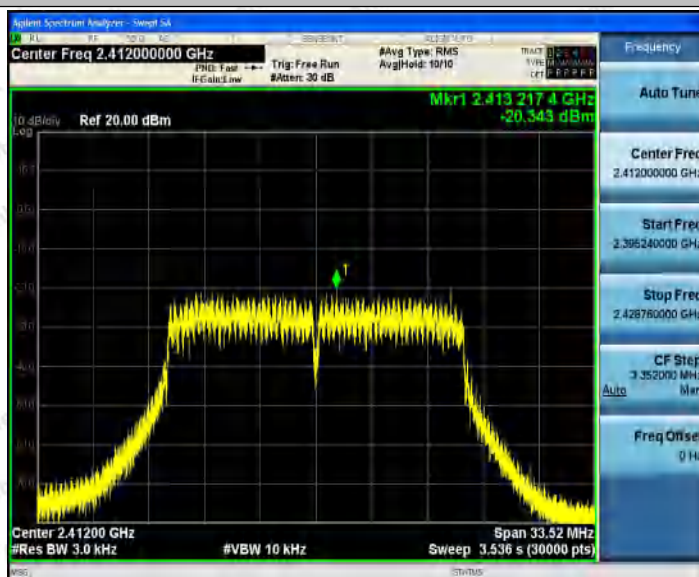
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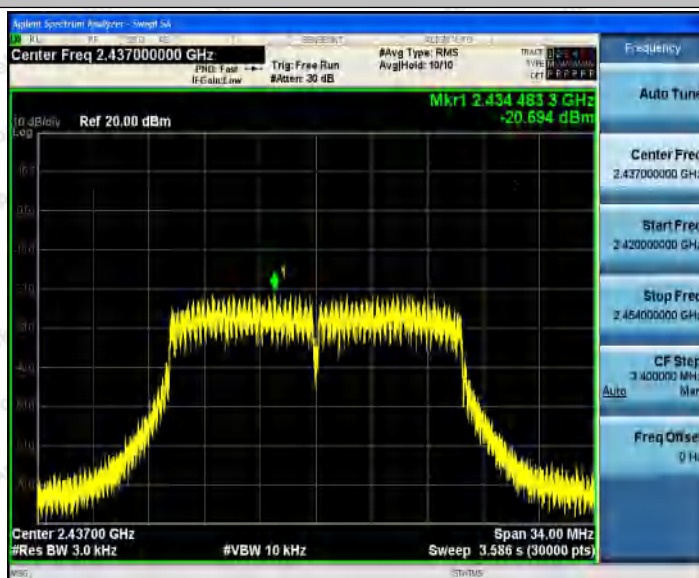
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11N20_Ant2_2412



11N20_Ant1_2437



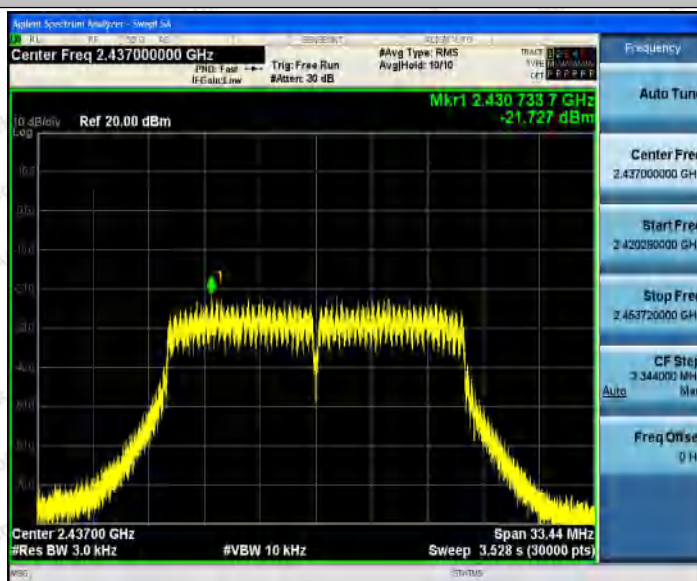
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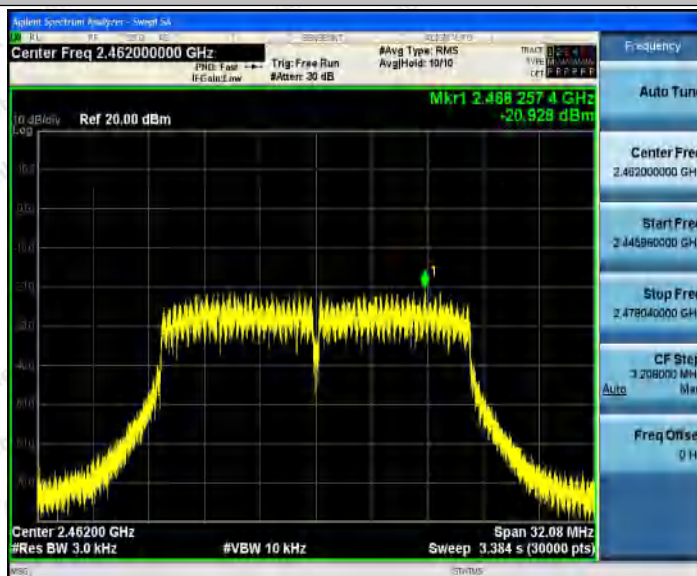
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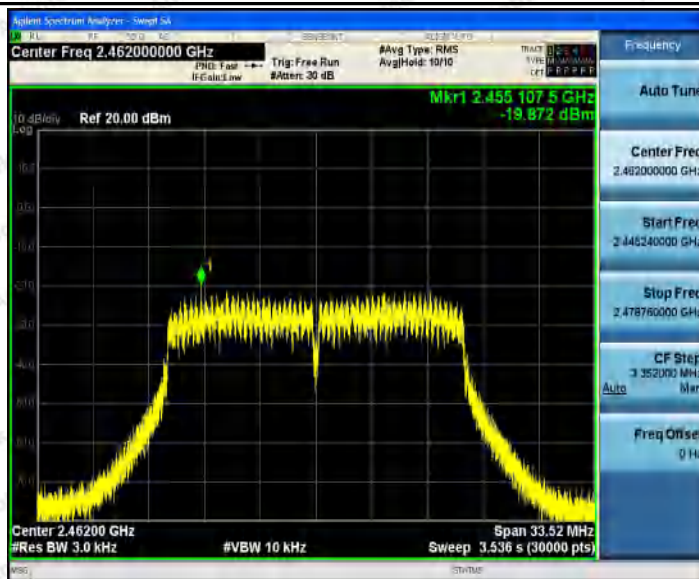
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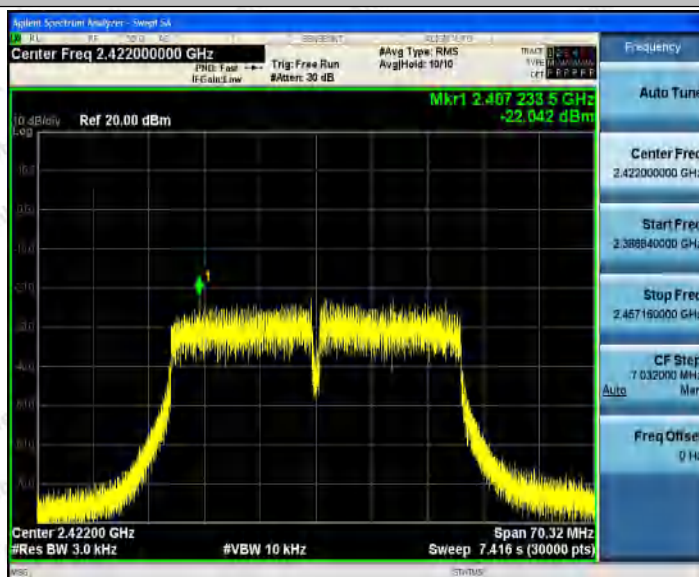
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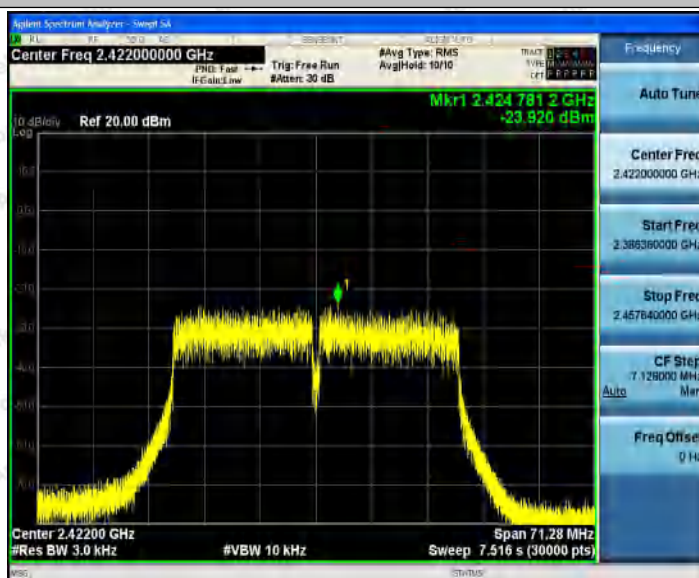
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11N40_Ant1_2422



11N40_Ant2_2422



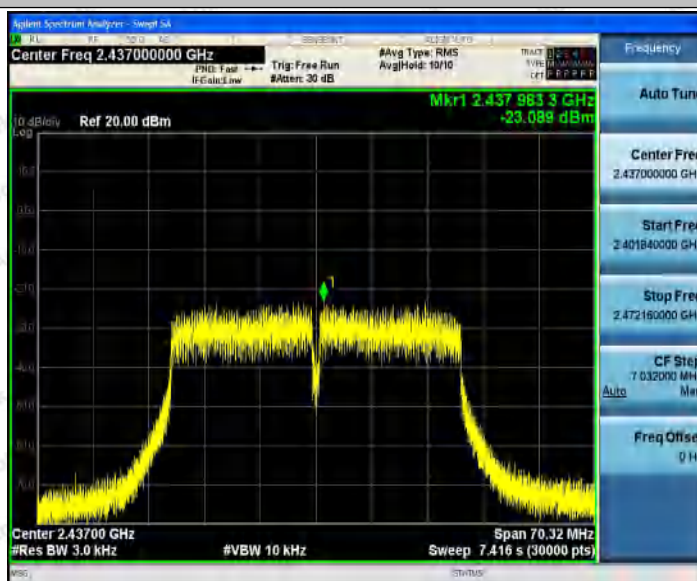
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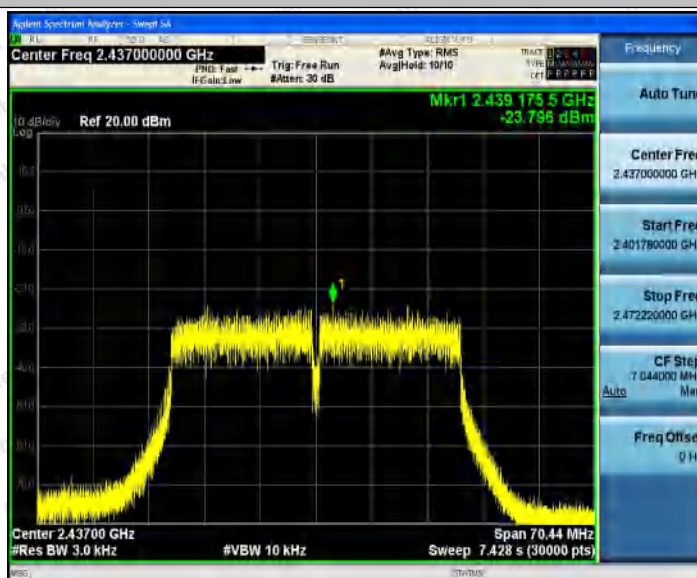
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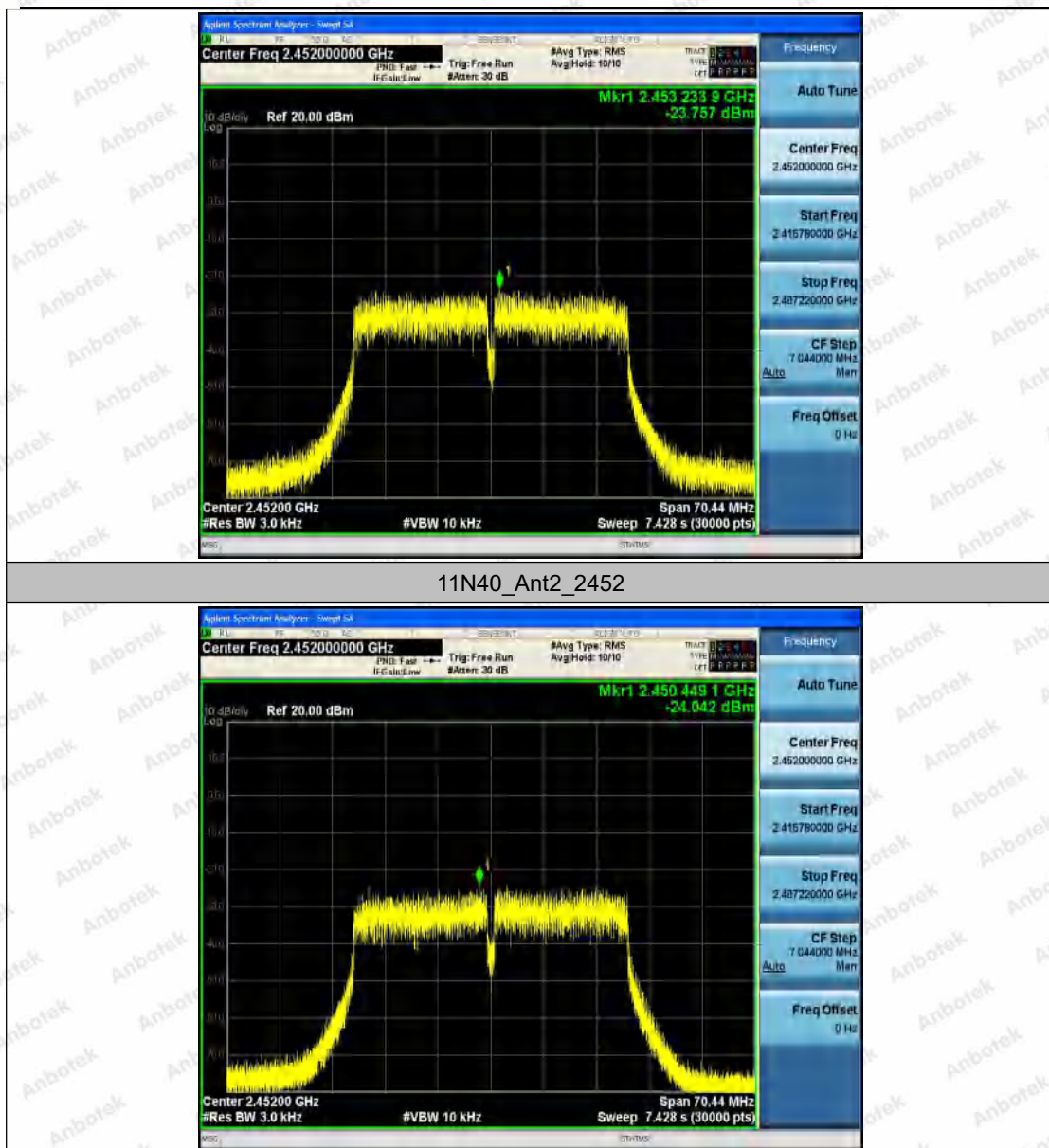
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11N40_Ant2_2437



11N40_Ant1_2452

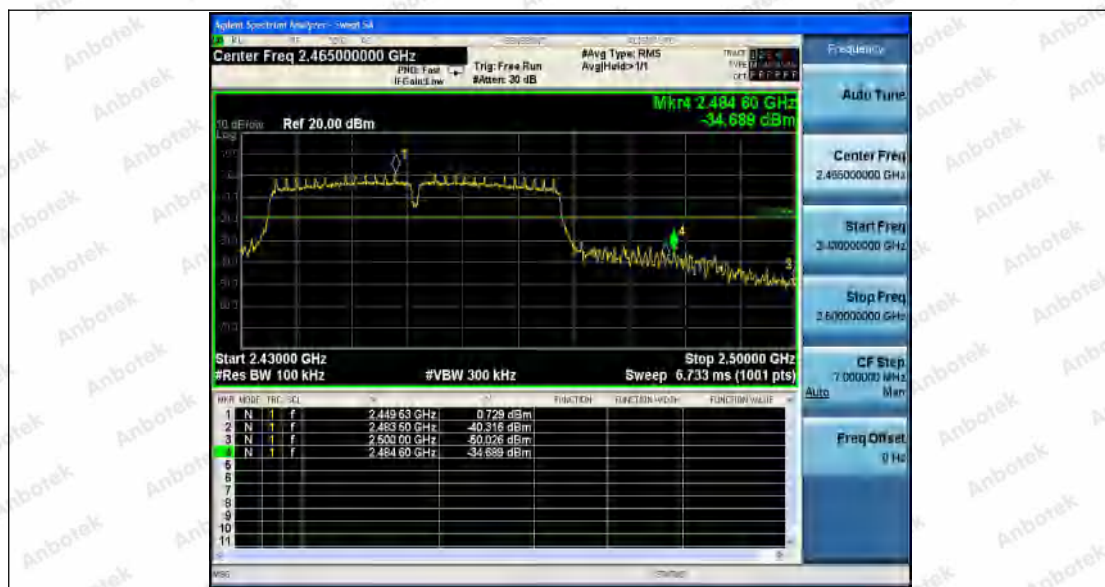


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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.70	-39.11	≤-13.3	PASS
	Ant2	Low	2412	6.99	-38.53	≤-13.01	PASS
	Ant1	High	2462	7.06	-52.89	≤-12.95	PASS
	Ant2	High	2462	7.93	-52.32	≤-12.07	PASS
11G	Ant1	Low	2412	1.08	-36.79	≤-18.92	PASS
	Ant2	Low	2412	1.40	-36.33	≤-18.6	PASS
	Ant1	High	2462	4.62	-46.14	≤-15.38	PASS
	Ant2	High	2462	4.78	-46.42	≤-15.22	PASS
11N20	Ant1	Low	2412	1.60	-37.94	≤-18.4	PASS
	Ant2	Low	2412	1.20	-36.65	≤-18.8	PASS
	Ant1	High	2462	4.85	-44.35	≤-15.15	PASS
	Ant2	High	2462	4.24	-44.08	≤-15.76	PASS
11N40	Ant1	Low	2422	-0.04	-32.67	≤-20.04	PASS
	Ant2	Low	2422	0.12	-33.64	≤-19.88	PASS
	Ant1	High	2452	0.67	-34.5	≤-19.33	PASS
	Ant2	High	2452	0.73	-34.69	≤-19.27	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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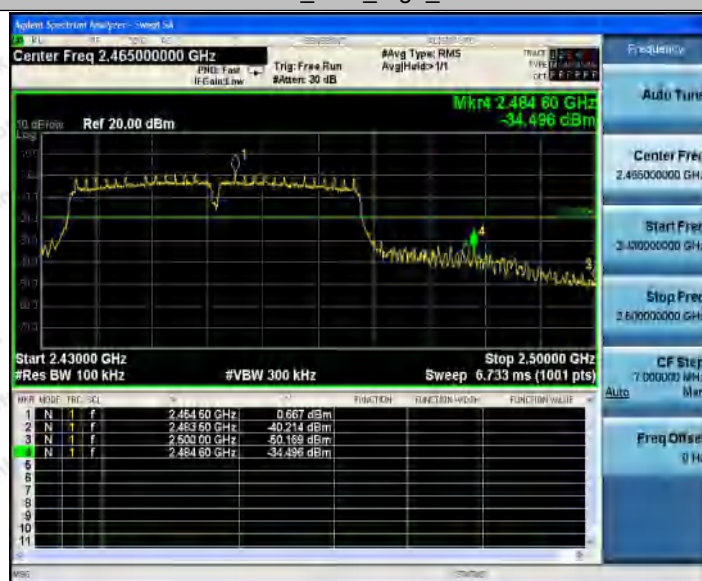
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11N40_Ant2_Low_2422



11N40_Ant1_High_2452

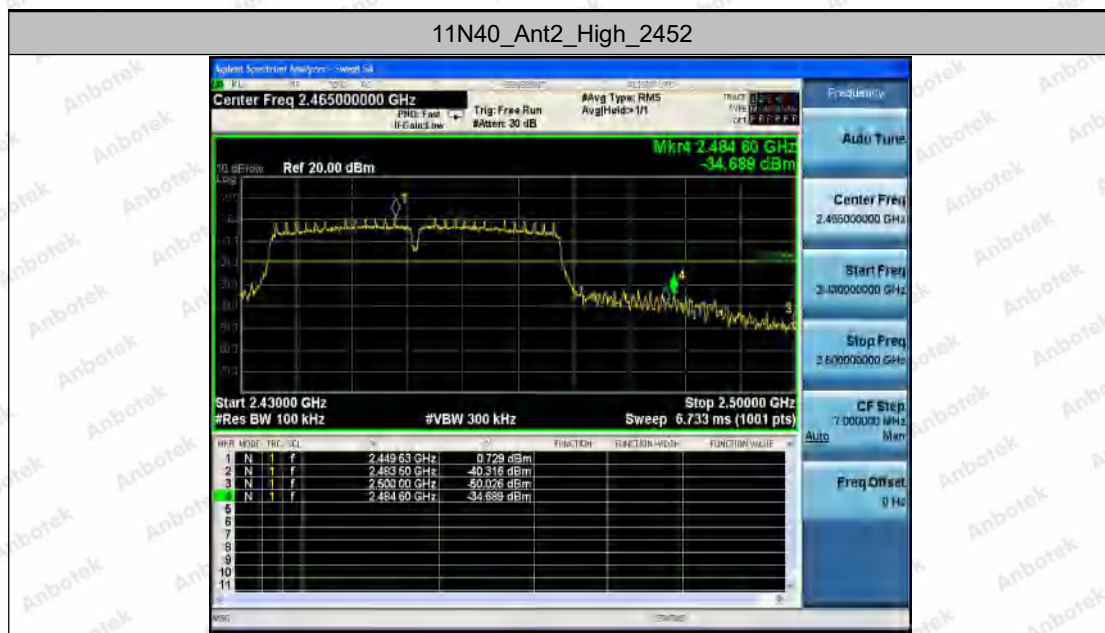


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-69.8	≤-18.63	PASS
			1000~26500	1.37	-43.56	≤-18.63	PASS
	Ant2	2412	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-65.28	≤-18.65	PASS
			1000~26500	1.35	-55.24	≤-18.65	PASS
	Ant1	2437	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-70.14	≤-19.39	PASS
			1000~26500	0.61	-40.67	≤-19.39	PASS
	Ant2	2437	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-70.11	≤-19.55	PASS
			1000~26500	0.45	-54.22	≤-19.55	PASS
	Ant1	2462	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-70.88	≤-19.51	PASS
			1000~26500	0.49	-39.86	≤-19.51	PASS
	Ant2	2462	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-70.2	≤-19.02	PASS
			1000~26500	0.98	-48.15	≤-19.02	PASS
11G	Ant1	2412	Reference	-5.89	-5.89	---	PASS
			30~1000	-5.89	-70.74	≤-25.89	PASS
			1000~26500	-5.89	-45.59	≤-25.89	PASS
	Ant2	2412	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-70.55	≤-26	PASS
			1000~26500	-6.00	-50.9	≤-26	PASS
	Ant1	2437	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-70.43	≤-26.18	PASS
			1000~26500	-6.18	-44.38	≤-26.18	PASS
	Ant2	2437	Reference	-7.30	-7.30	---	PASS
			30~1000	-7.30	-70.23	≤-27.3	PASS
			1000~26500	-7.30	-52.05	≤-27.3	PASS
	Ant1	2462	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-70.19	≤-25.79	PASS
			1000~26500	-5.79	-44.68	≤-25.79	PASS
	Ant2	2462	Reference	-7.16	-7.16	---	PASS
			30~1000	-7.16	-69.98	≤-27.16	PASS
			1000~26500	-7.16	-51.19	≤-27.16	PASS
11N20	Ant1	2412	Reference	-6.54	-6.54	---	PASS

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11N40	Ant2	2412	30~1000	-6.54	-70.28	≤ -26.54	PASS
			1000~26500	-6.54	-45.32	≤ -26.54	PASS
			Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-70.4	≤ -26.82	PASS
			1000~26500	-6.82	-50.71	≤ -26.82	PASS
			Reference	-6.36	-6.36	---	PASS
	Ant1	2437	30~1000	-6.36	-70.11	≤ -26.36	PASS
			1000~26500	-6.36	-44.43	≤ -26.36	PASS
			Reference	-7.72	-7.72	---	PASS
	Ant2	2437	30~1000	-7.72	-69.16	≤ -27.72	PASS
			1000~26500	-7.72	-52.35	≤ -27.72	PASS
			Reference	-6.34	-6.34	---	PASS
	Ant1	2462	30~1000	-6.34	-69.97	≤ -26.34	PASS
			1000~26500	-6.34	-44.23	≤ -26.34	PASS
			Reference	-6.37	-6.37	---	PASS
	Ant2	2462	30~1000	-6.37	-69.16	≤ -26.37	PASS
			1000~26500	-6.37	-51.64	≤ -26.37	PASS
			Reference	-8.80	-8.80	---	PASS
	Ant1	2422	30~1000	-8.80	-70.22	≤ -28.8	PASS
			1000~26500	-8.80	-44.62	≤ -28.8	PASS
			Reference	-9.27	-9.27	---	PASS
	Ant2	2422	30~1000	-9.27	-70.48	≤ -29.27	PASS
			1000~26500	-9.27	-51.54	≤ -29.27	PASS
			Reference	-8.67	-8.67	---	PASS
	Ant1	2437	30~1000	-8.67	-70.42	≤ -28.67	PASS
			1000~26500	-8.67	-44.34	≤ -28.67	PASS
			Reference	-10.24	-10.24	---	PASS
	Ant2	2437	30~1000	-10.24	-70.41	≤ -30.24	PASS
			1000~26500	-10.24	-52.58	≤ -30.24	PASS
			Reference	-8.74	-8.74	---	PASS
	Ant1	2452	30~1000	-8.74	-70.51	≤ -28.74	PASS
			1000~26500	-8.74	-43.91	≤ -28.74	PASS
			Reference	-9.76	-9.76	---	PASS
	Ant2	2452	30~1000	-9.76	-70.89	≤ -29.76	PASS
			1000~26500	-9.76	-50.42	≤ -29.76	PASS

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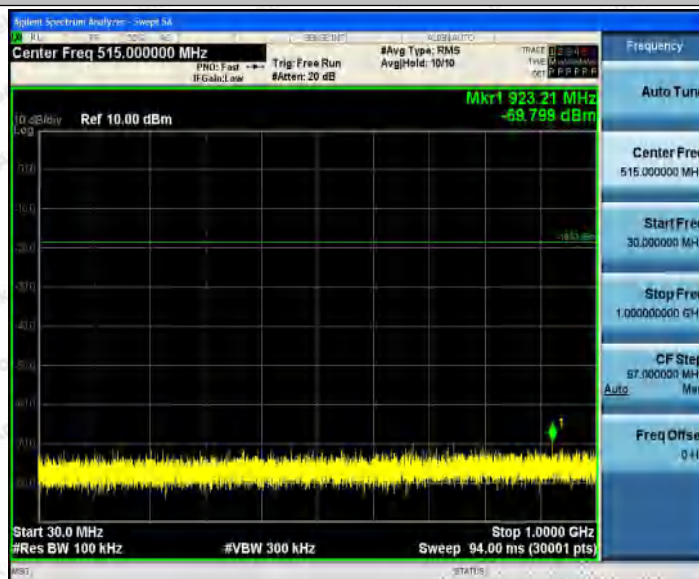
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Test Graphs

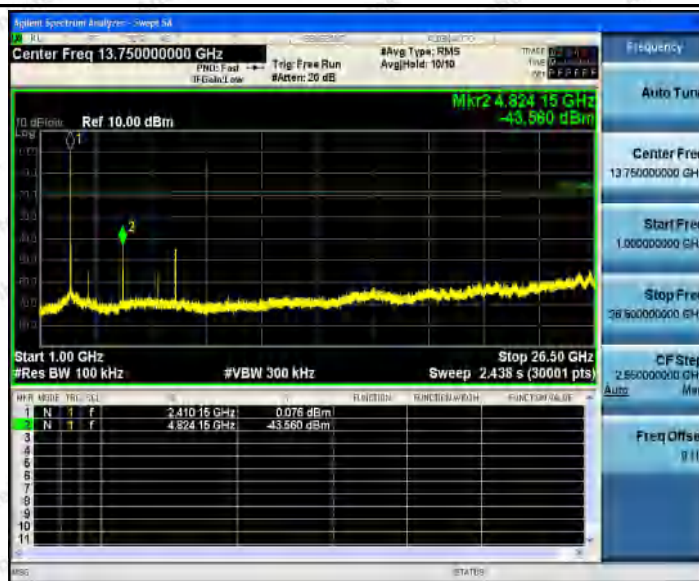
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11B_Ant1_2412_1000~26500



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11B_Ant2_2412_30~1000



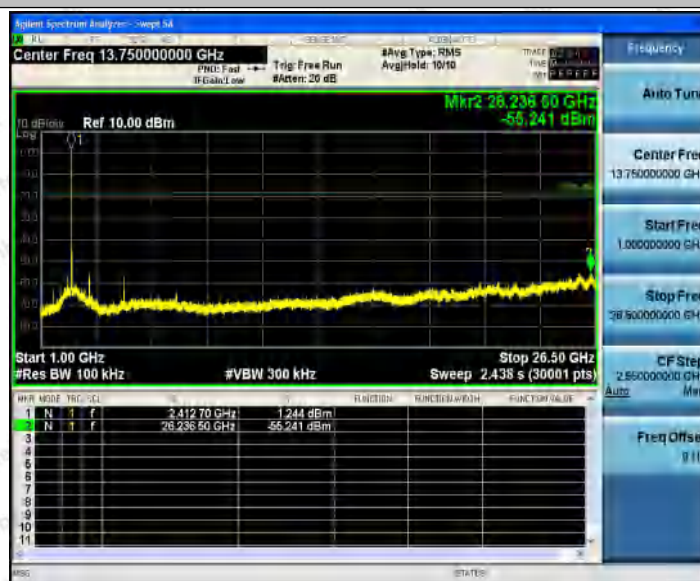
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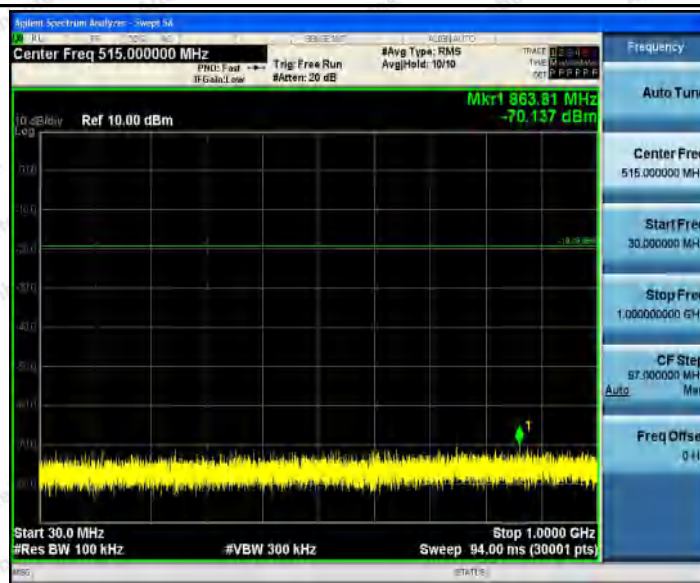
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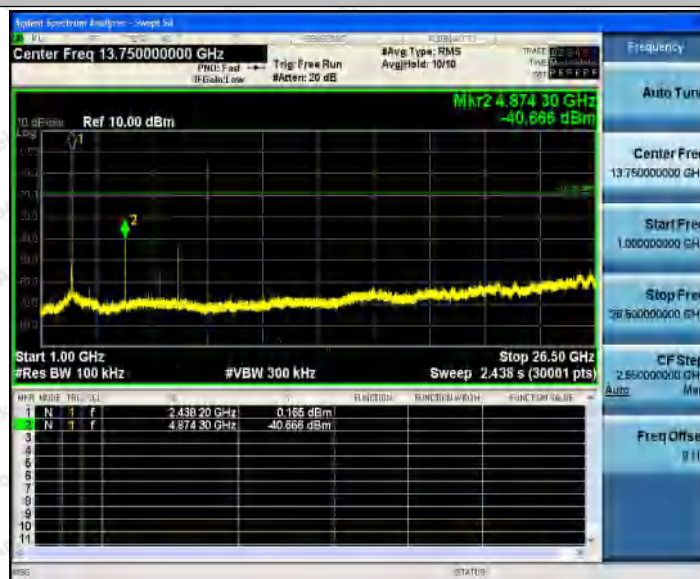
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11B_Ant1_2437_1000~26500



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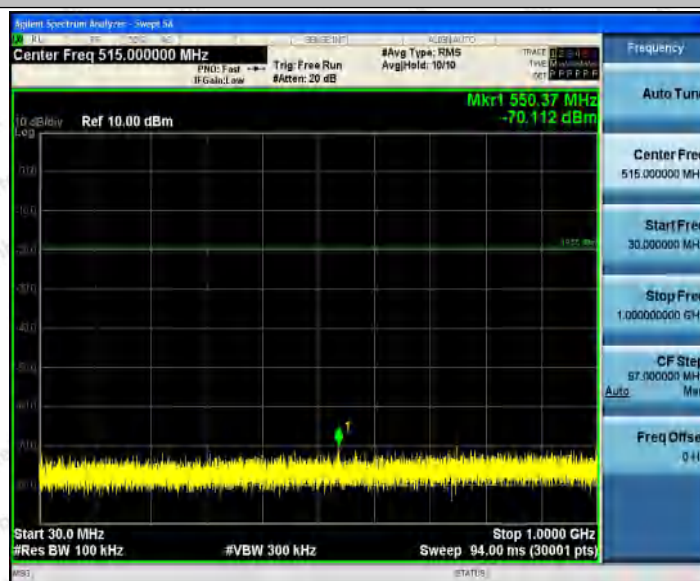
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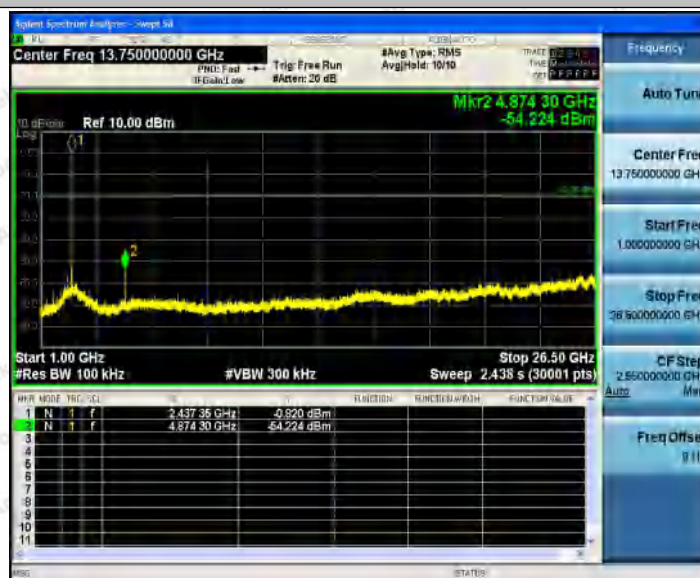
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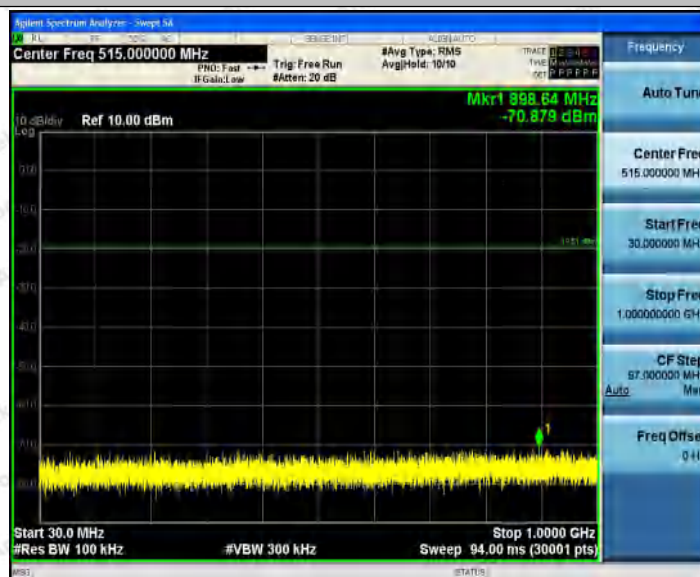
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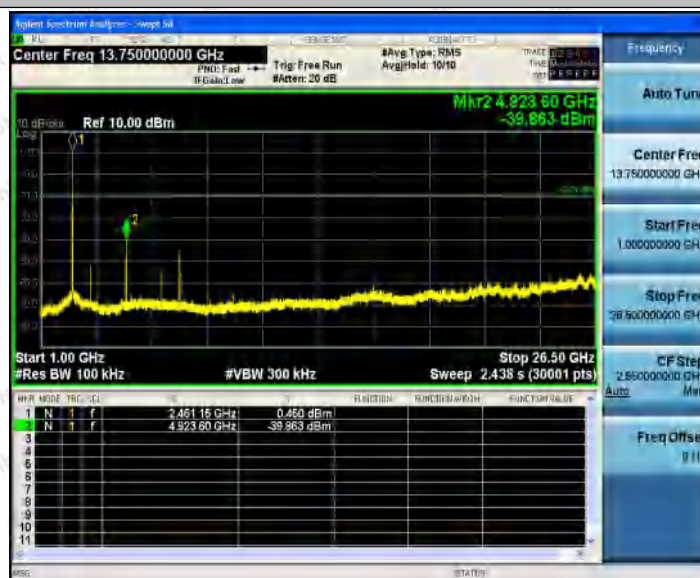
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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



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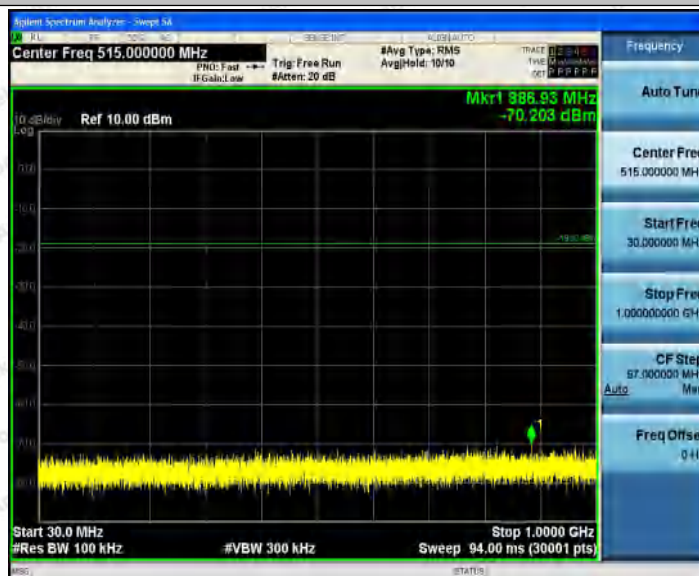
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11B_Ant2_2462_0~Reference



11B_Ant2_2462_30~1000



11B_Ant2_2462_1000~26500

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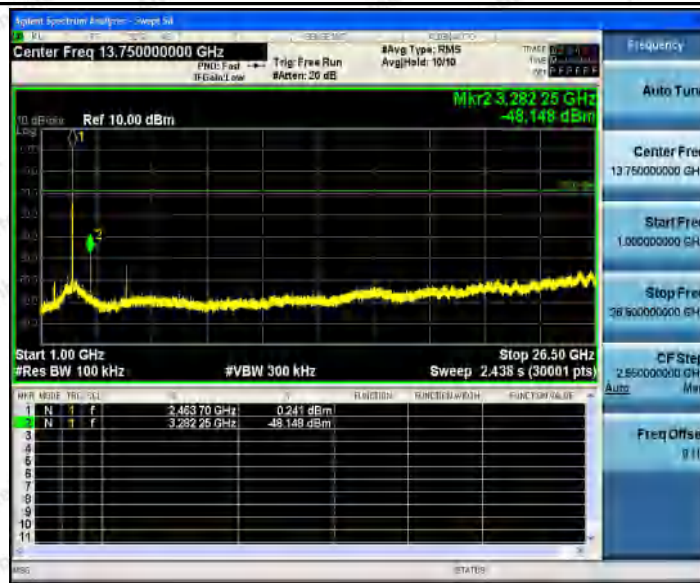
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11G_Ant1_2412_30~1000



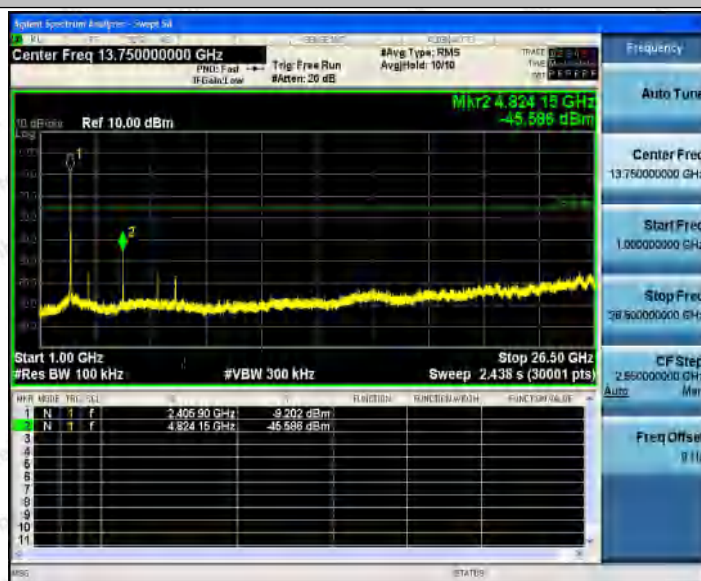
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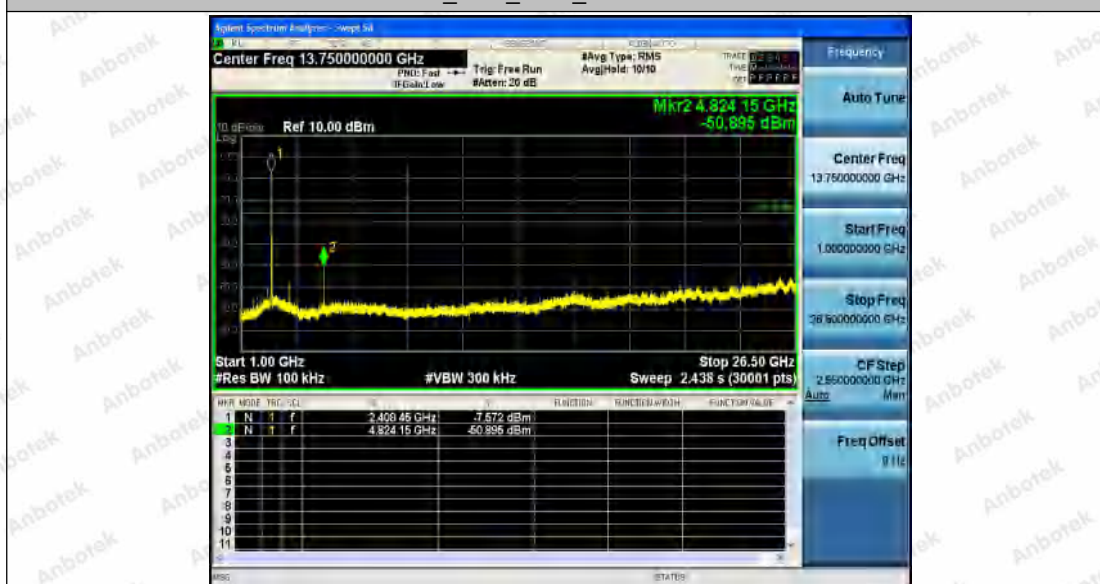
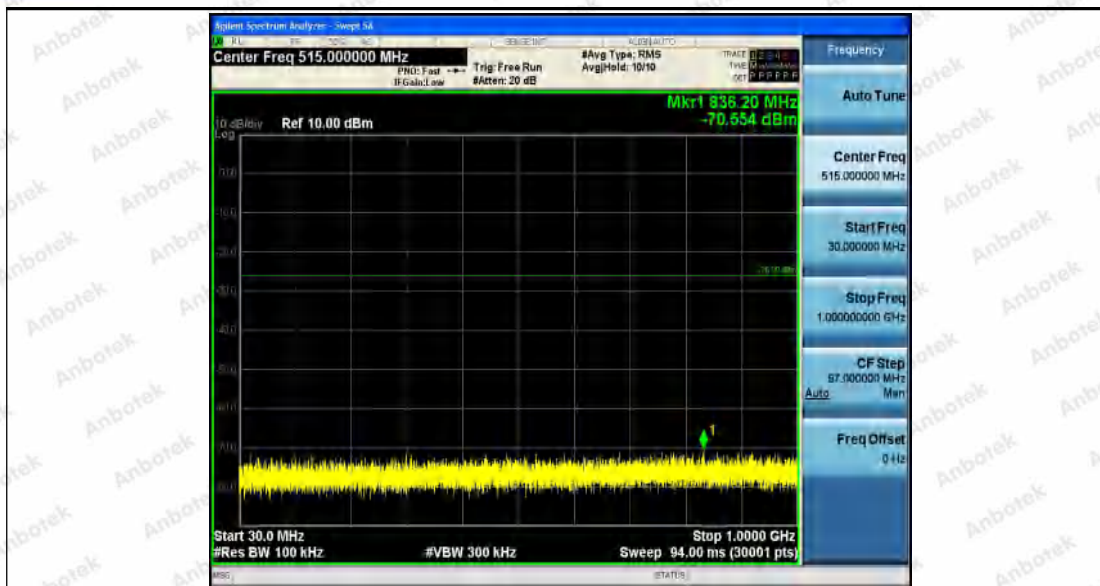
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11G_Ant2_2412_30~1000



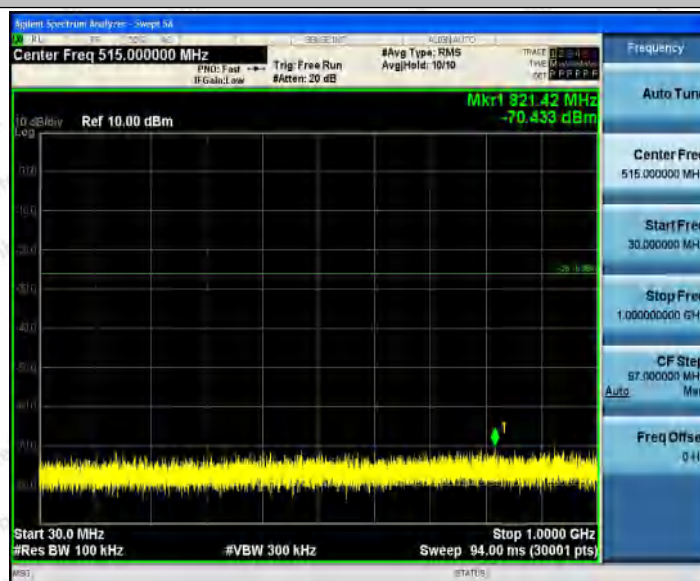
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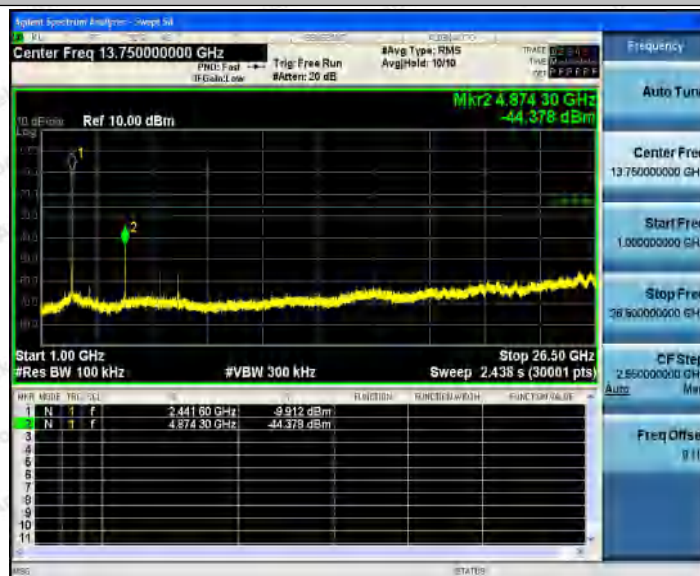
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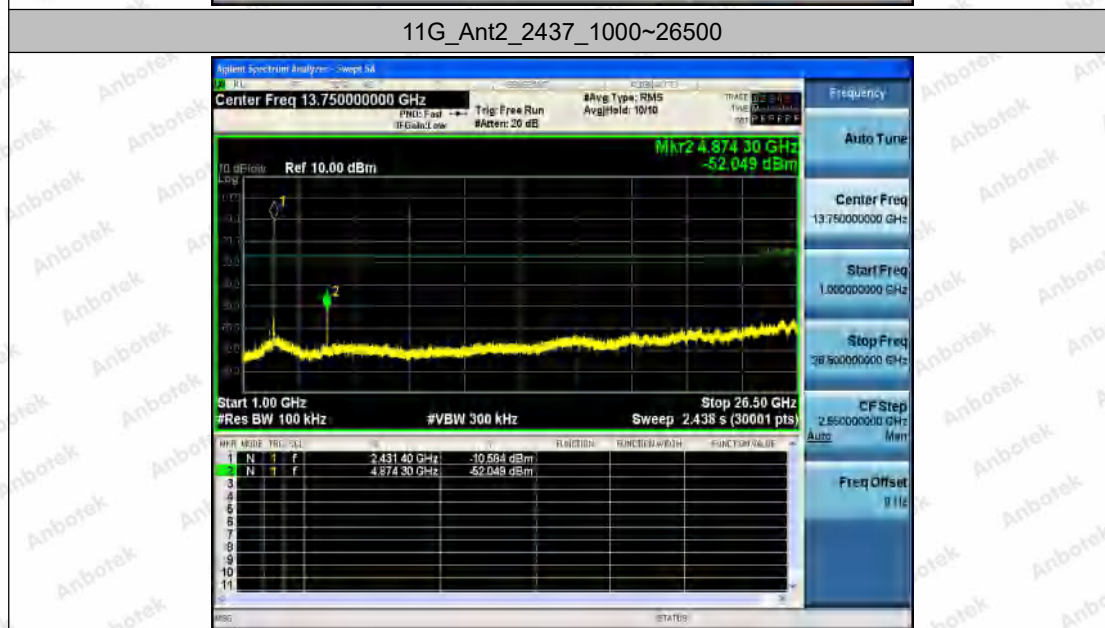
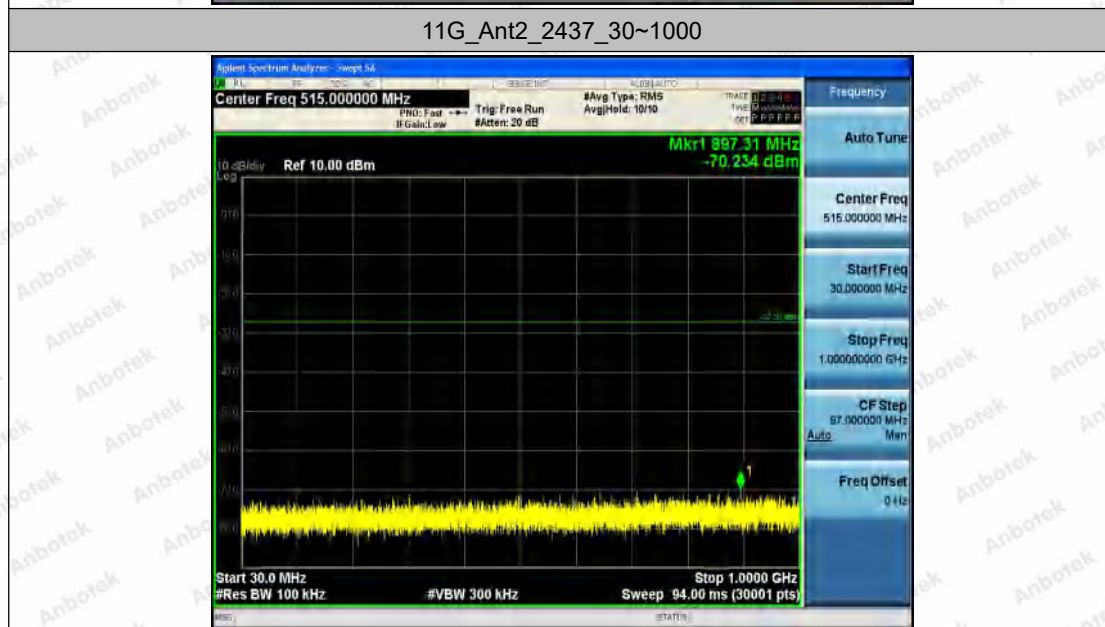
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference



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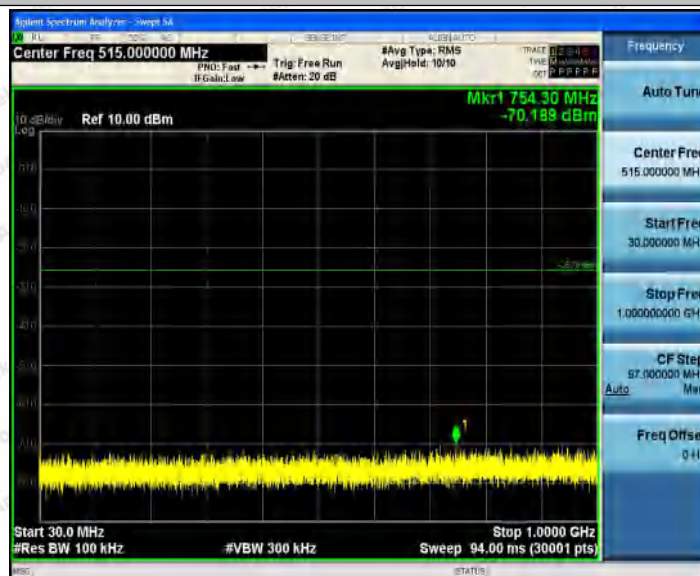
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



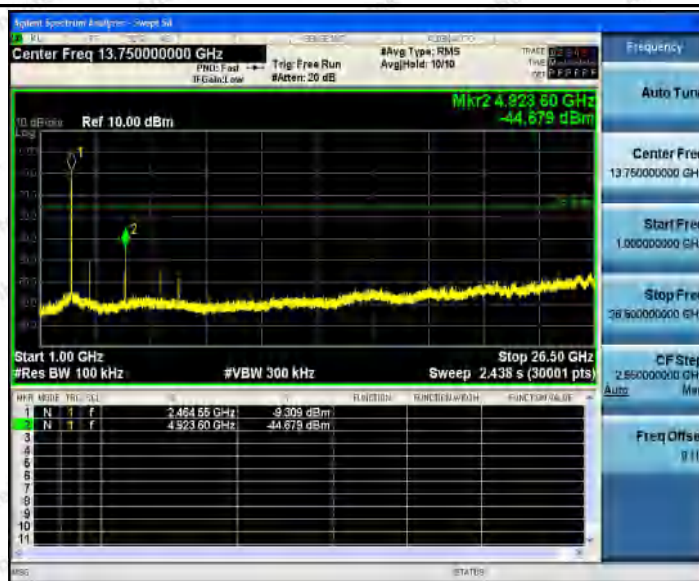
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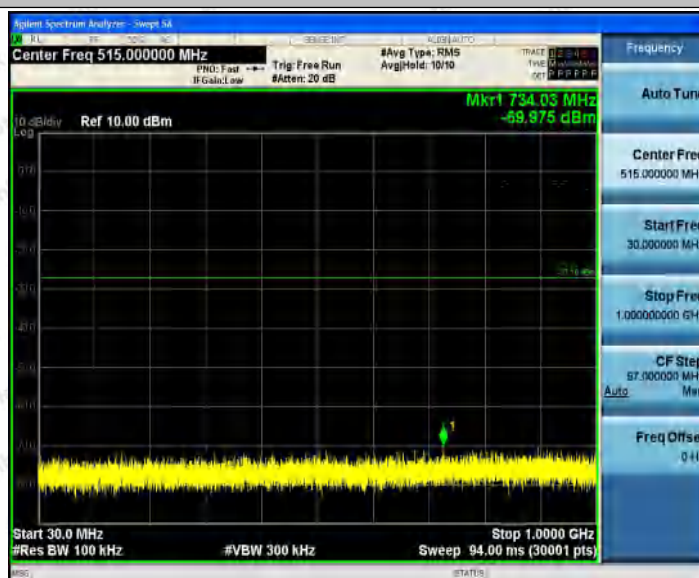
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11G_Ant2_2462_0~Reference



11G_Ant2_2462_30~1000



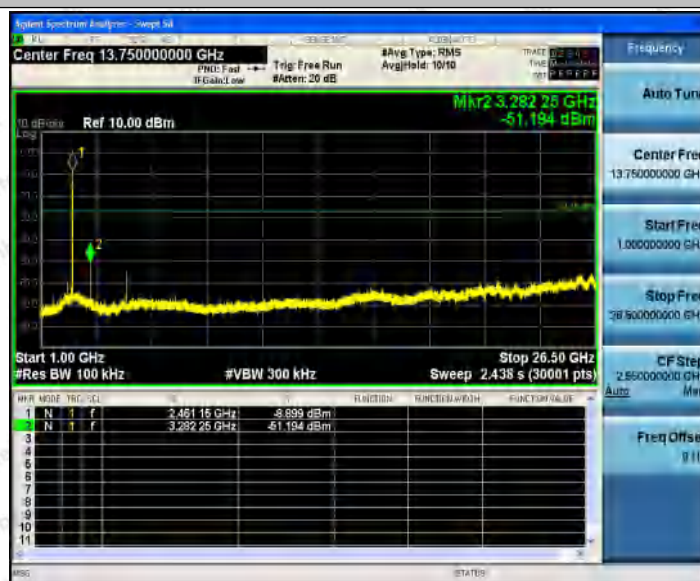
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11G_Ant2_2462_1000~26500



11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000

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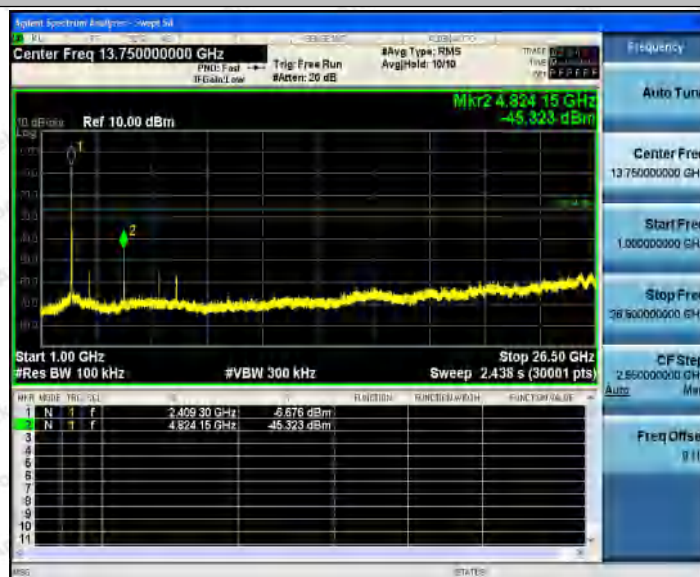
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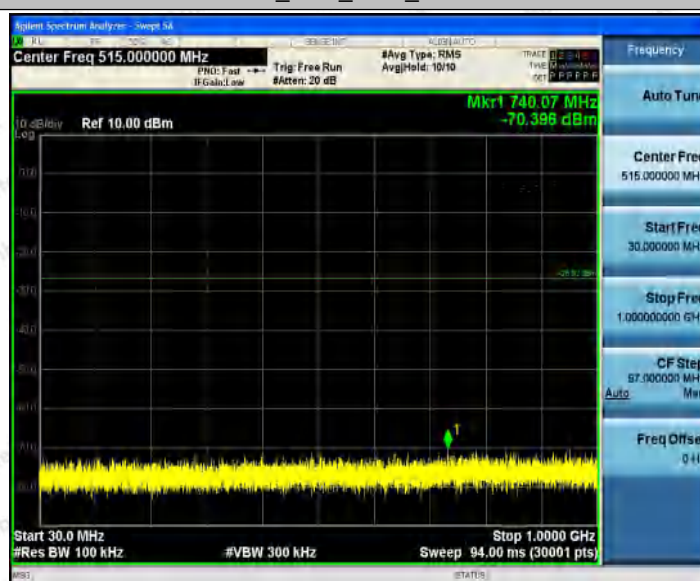
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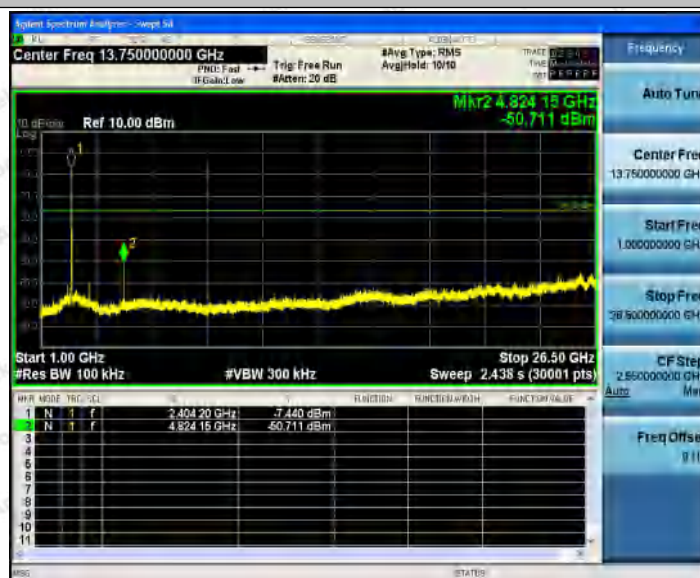
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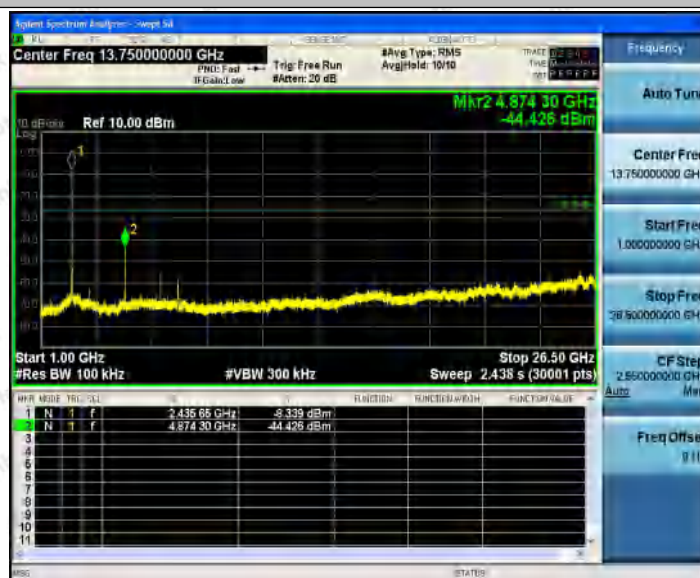
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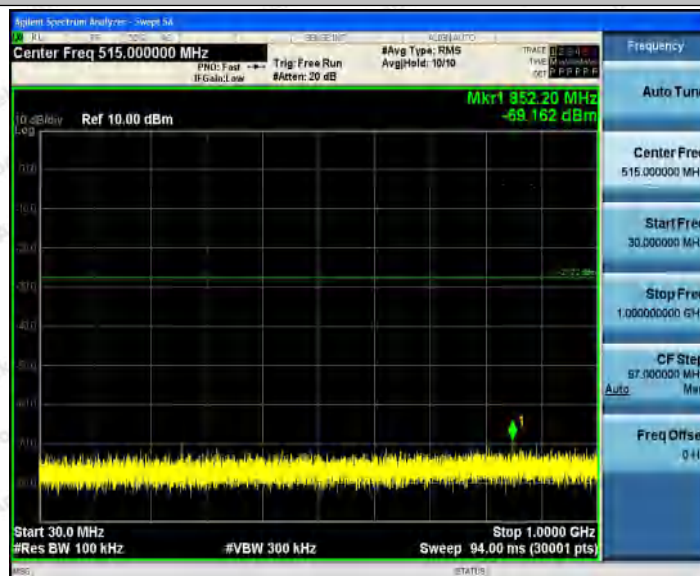
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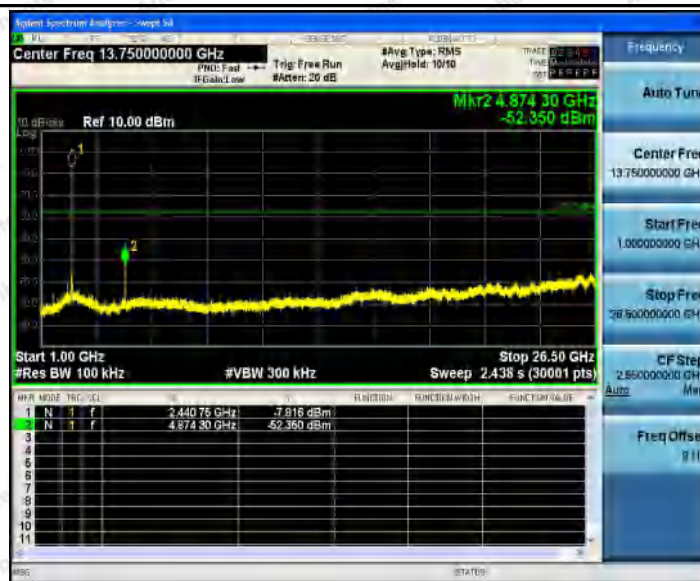
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11N20_Ant1_2462_0~Reference



11N20_Ant1_2462_30~1000



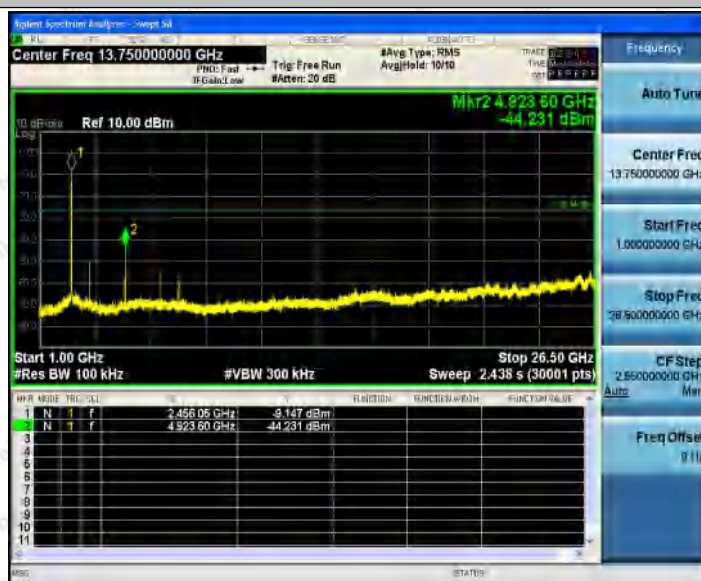
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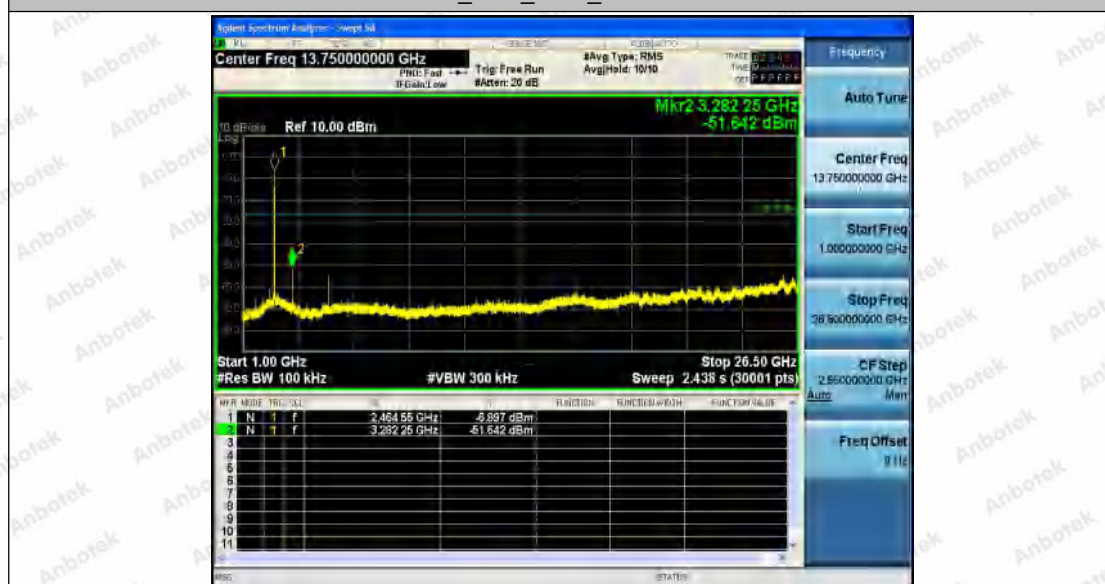
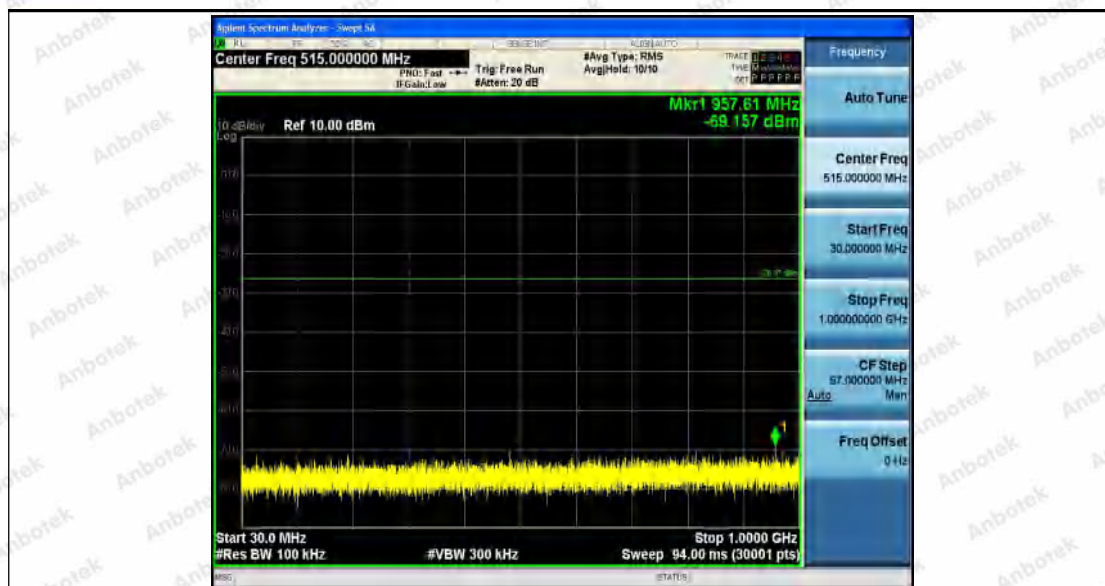
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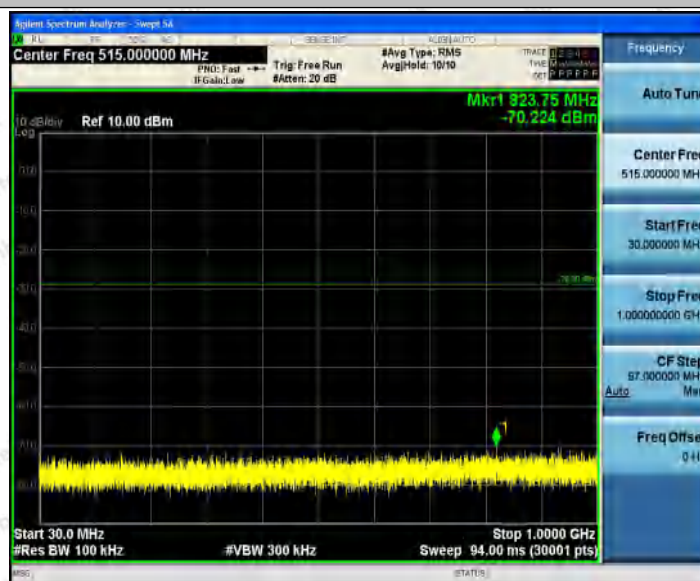
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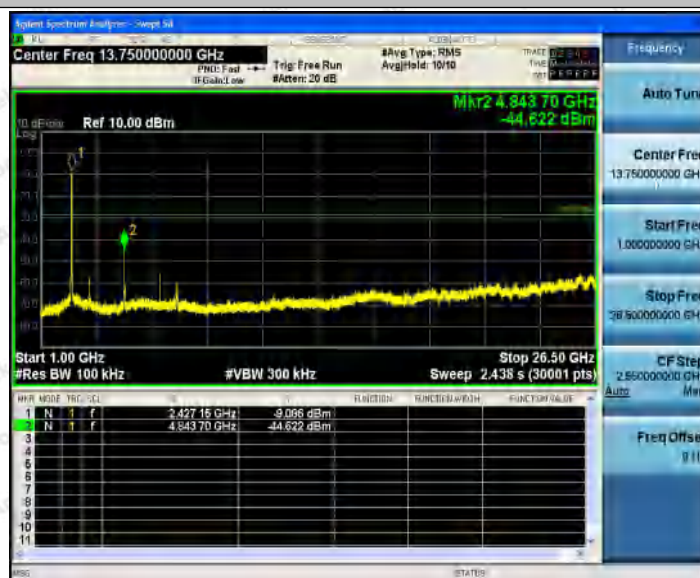
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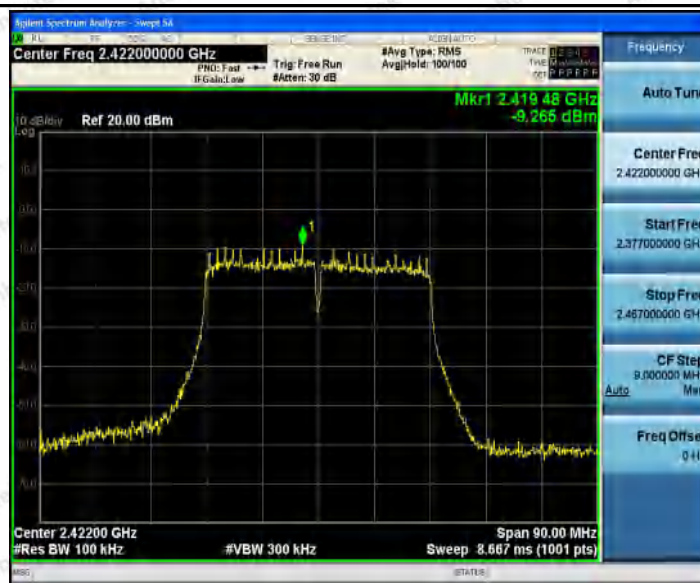
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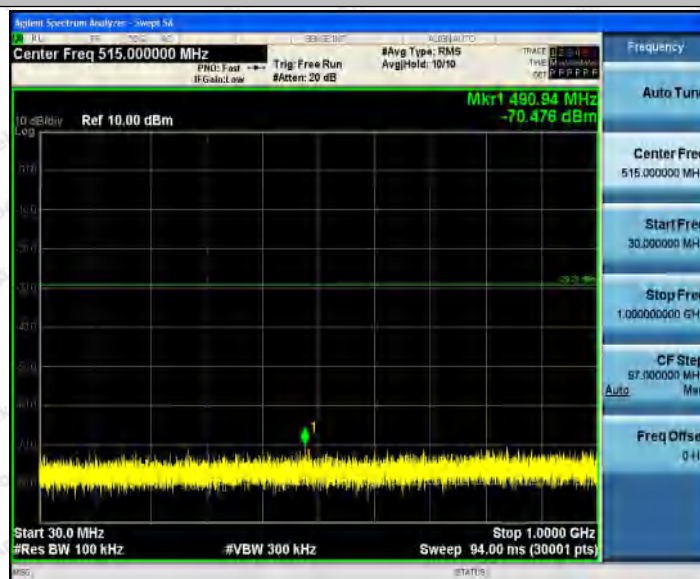
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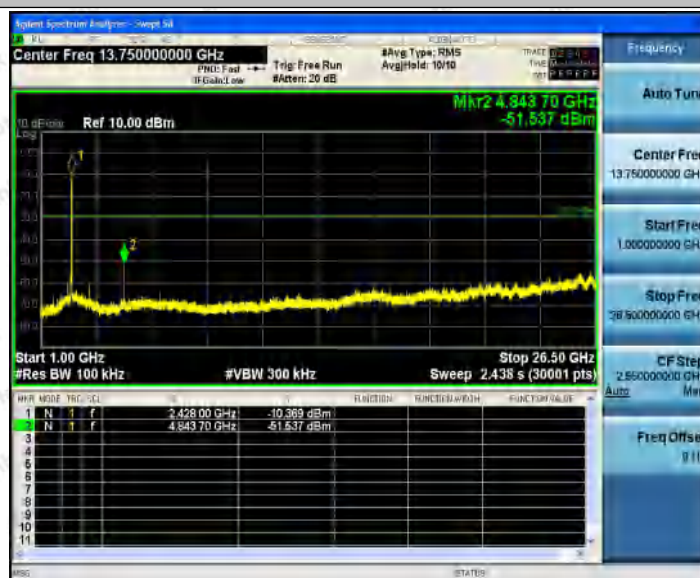
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11N40_Ant2_2422_30~1000



11N40_Ant2_2422_1000~26500



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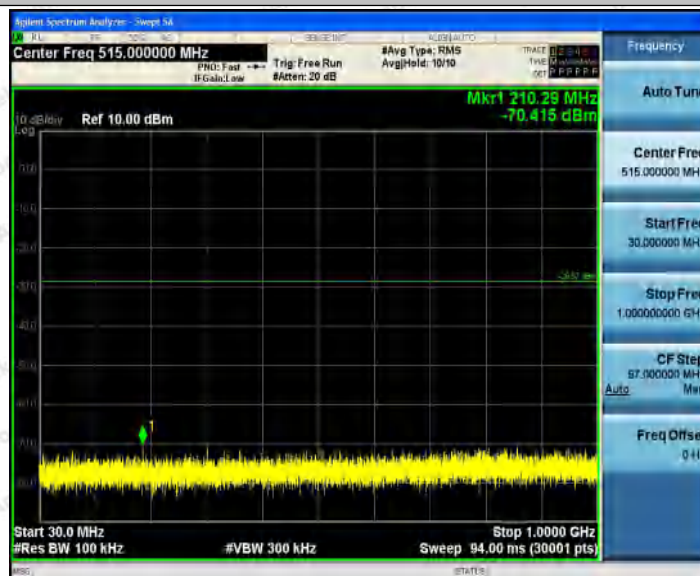
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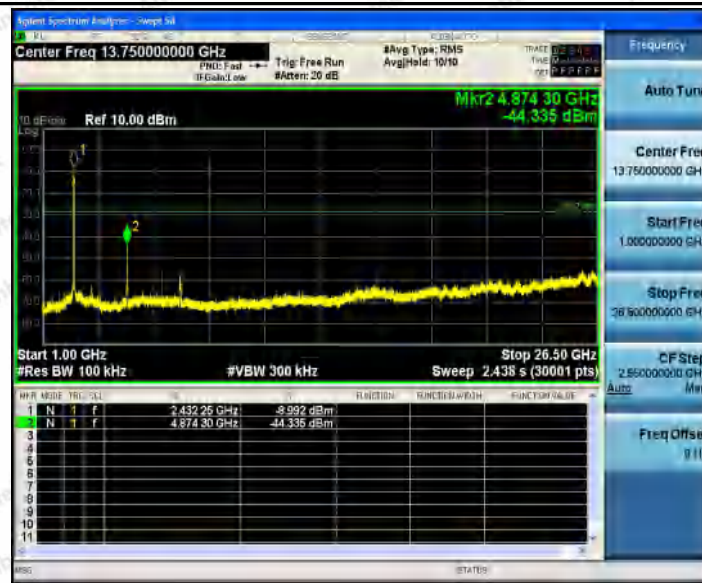
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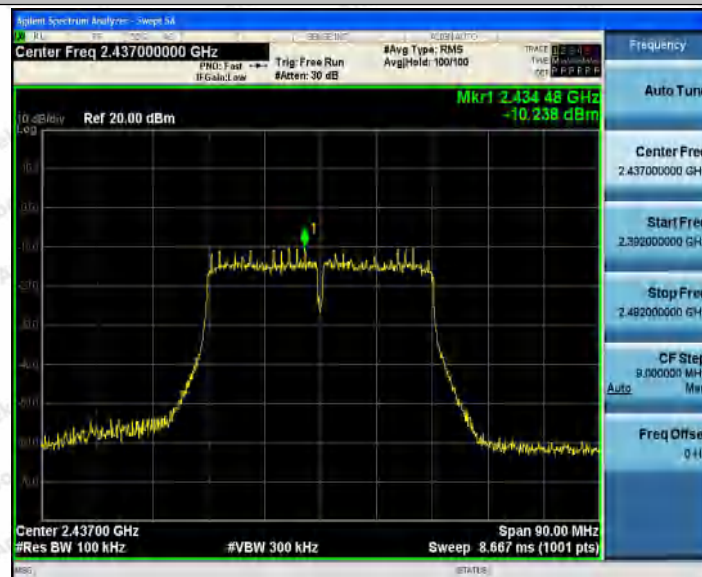
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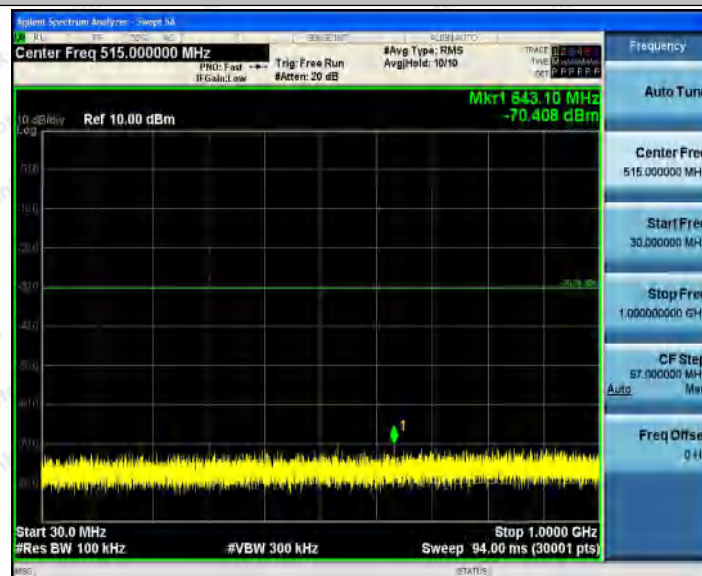
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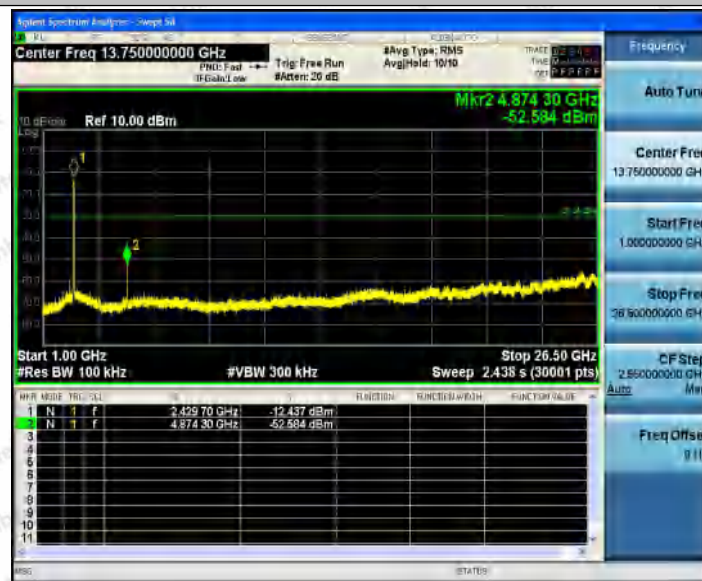
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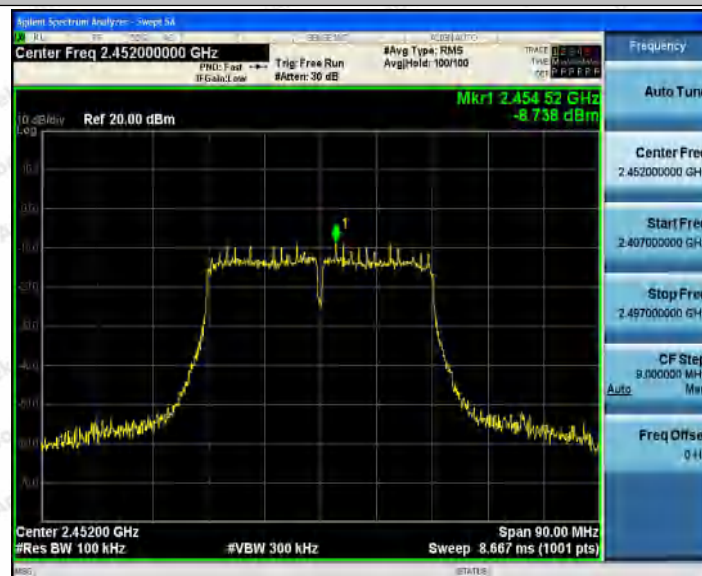
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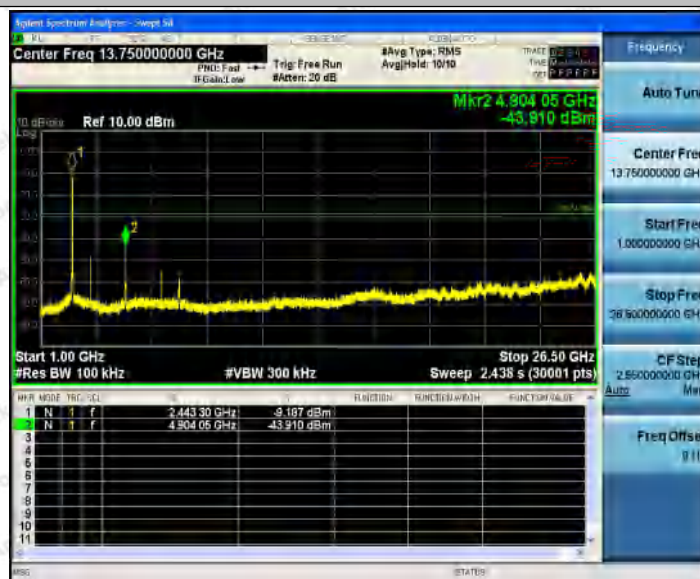
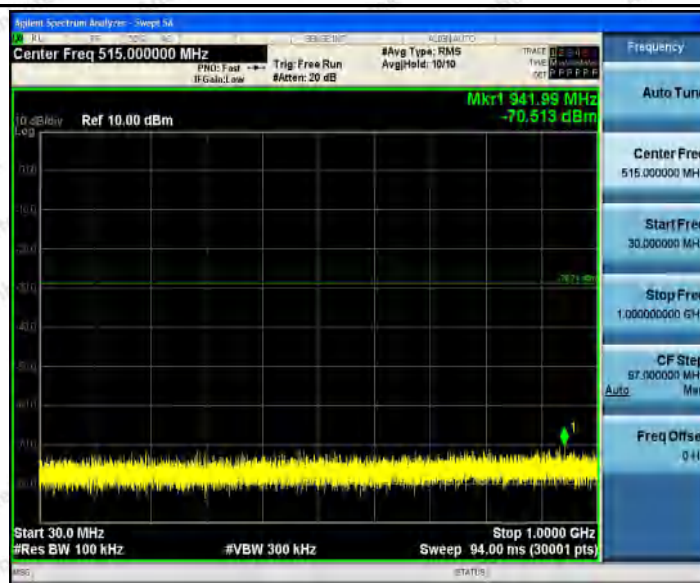
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11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000



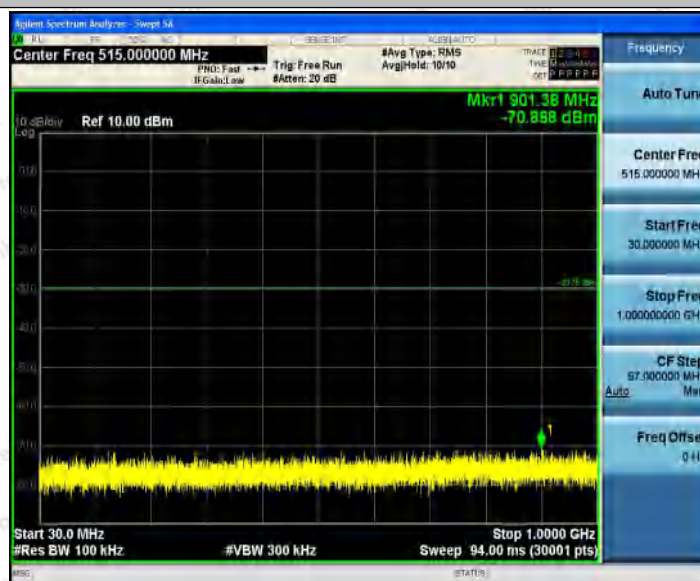
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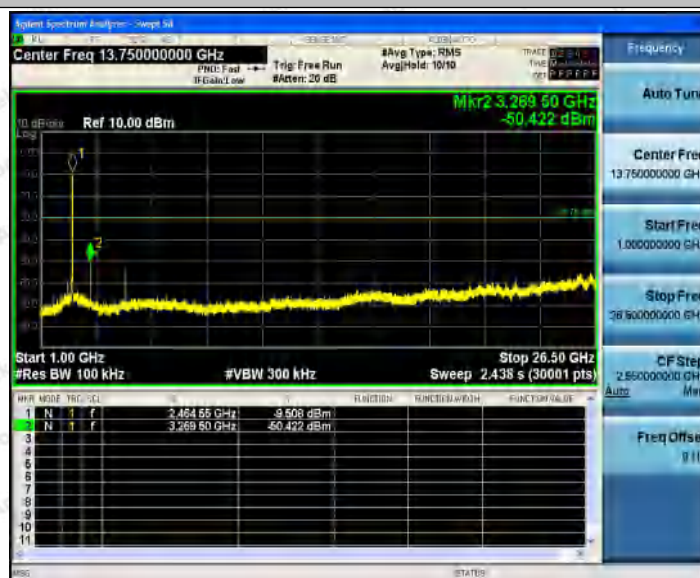
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11N40_Ant2_2452_30~1000



11N40_Ant2_2452_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.42	12.53	99.12	---	PASS
	Ant2	2412	12.42	12.46	99.68	---	PASS
	Ant1	2437	12.42	12.46	99.68	---	PASS
	Ant2	2437	12.42	12.56	98.89	---	PASS
	Ant1	2462	12.41	12.50	99.28	---	PASS
	Ant2	2462	12.42	13.22	93.95	---	PASS
11G	Ant1	2412	2.07	2.15	96.28	---	PASS
	Ant2	2412	2.06	2.18	94.50	---	PASS
	Ant1	2437	2.07	2.24	92.41	---	PASS
	Ant2	2437	2.06	2.23	92.38	---	PASS
	Ant1	2462	2.07	2.18	94.95	---	PASS
	Ant2	2462	2.06	2.21	93.21	---	PASS
11N20	Ant1	2412	1.92	2.09	91.87	---	PASS
	Ant2	2412	1.92	2.05	93.66	---	PASS
	Ant1	2437	1.92	2.04	94.12	---	PASS
	Ant2	2437	1.92	2.09	91.87	---	PASS
	Ant1	2462	1.92	2.09	91.87	---	PASS
	Ant2	2462	1.92	2.07	92.75	---	PASS
11N40	Ant1	2422	0.94	1.11	84.68	---	PASS
	Ant2	2422	0.95	1.12	84.82	---	PASS
	Ant1	2437	0.95	1.10	86.36	---	PASS
	Ant2	2437	0.94	1.11	84.68	---	PASS
	Ant1	2452	0.95	1.09	87.16	---	PASS
	Ant2	2452	0.95	1.12	84.82	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



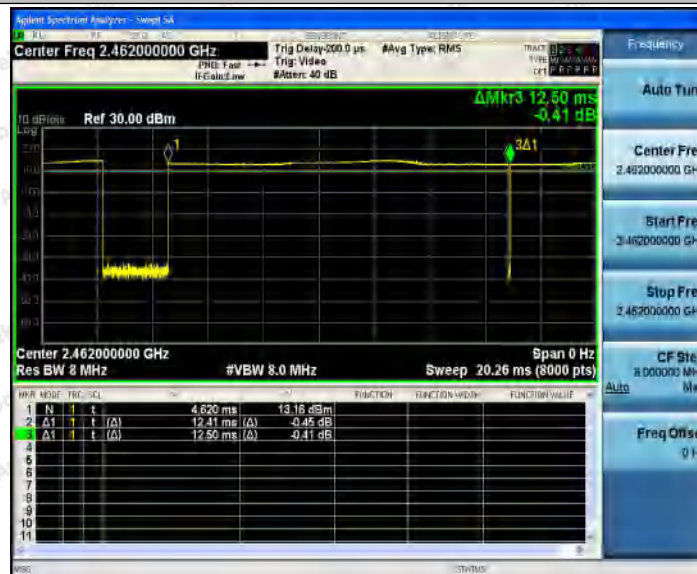
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11B_Ant2_2437



11B_Ant1_2462



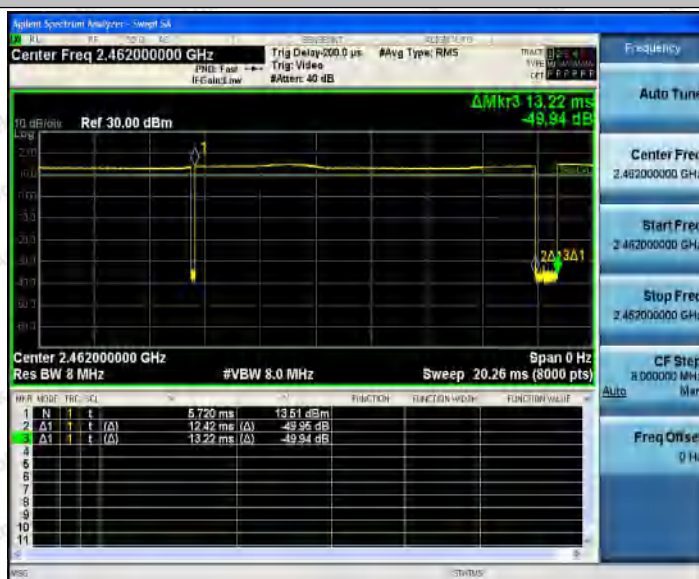
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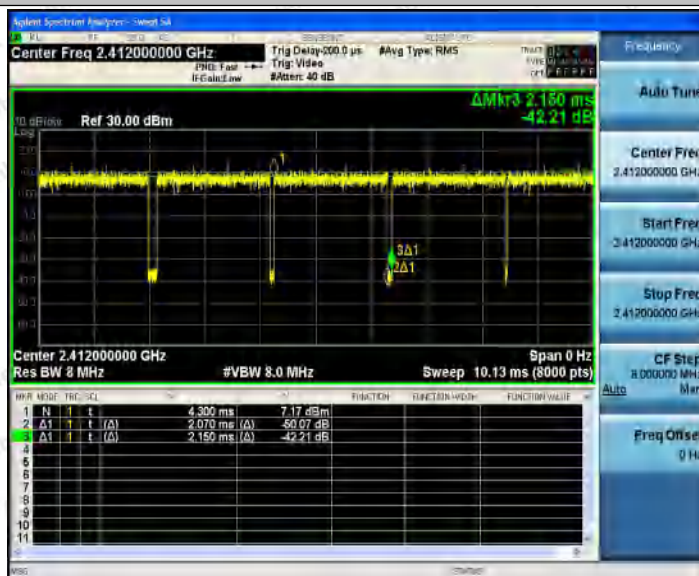
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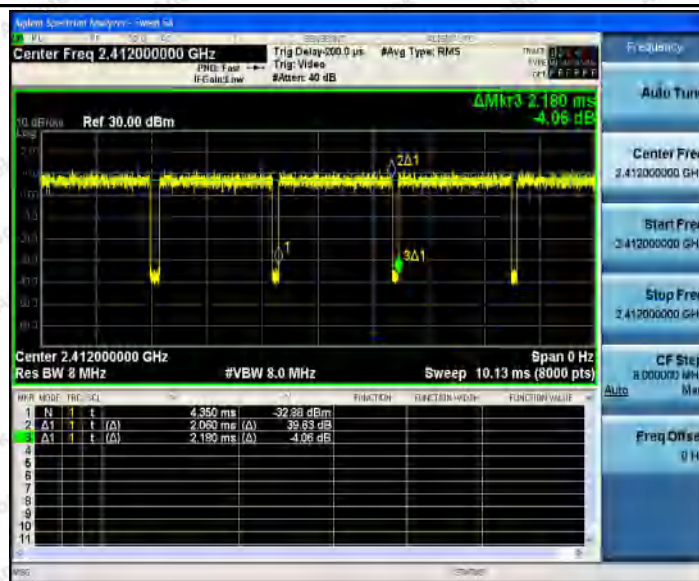
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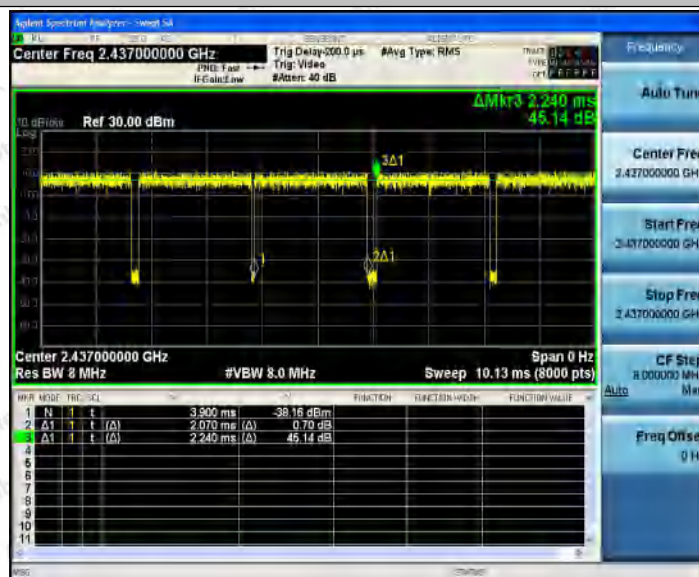
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437



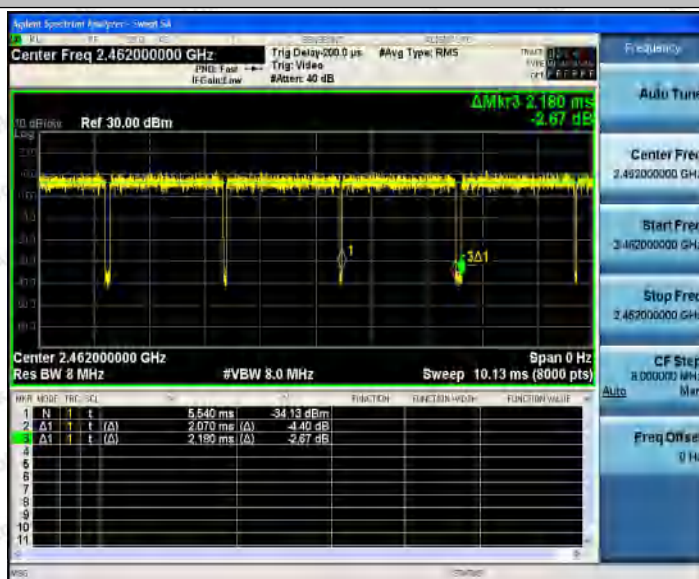
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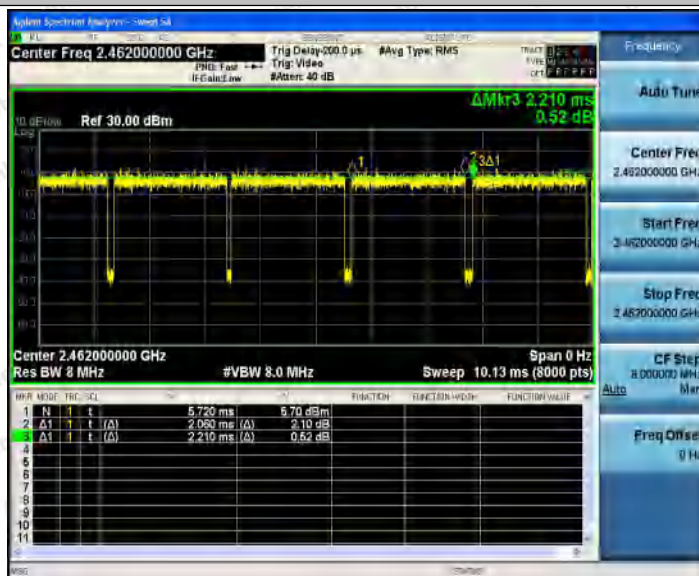
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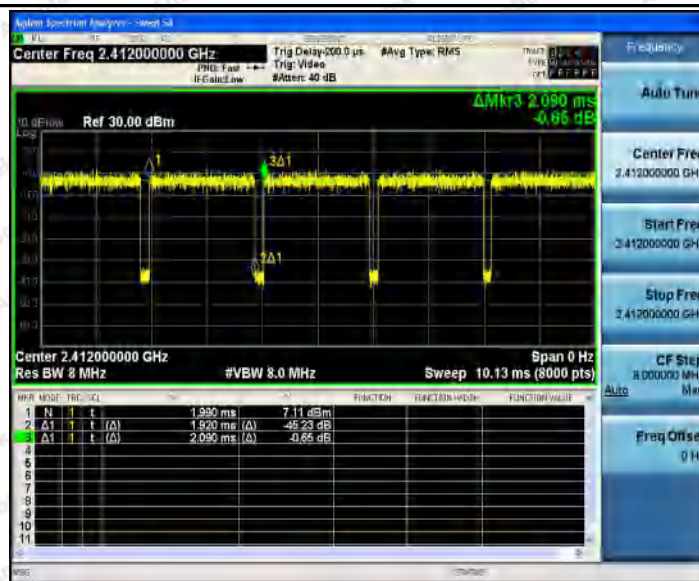
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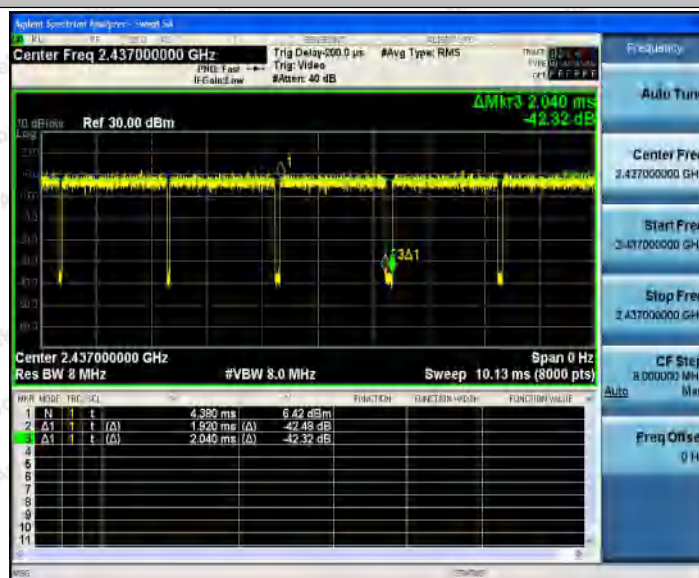
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11N20_Ant2_2412



11N20_Ant1_2437



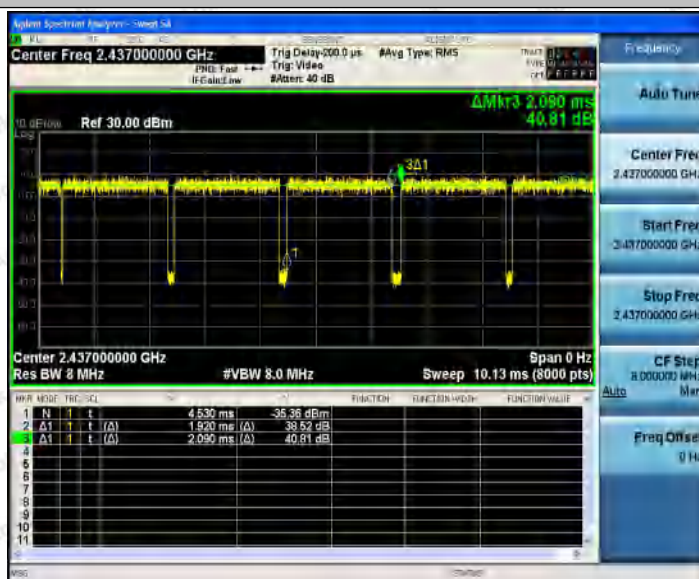
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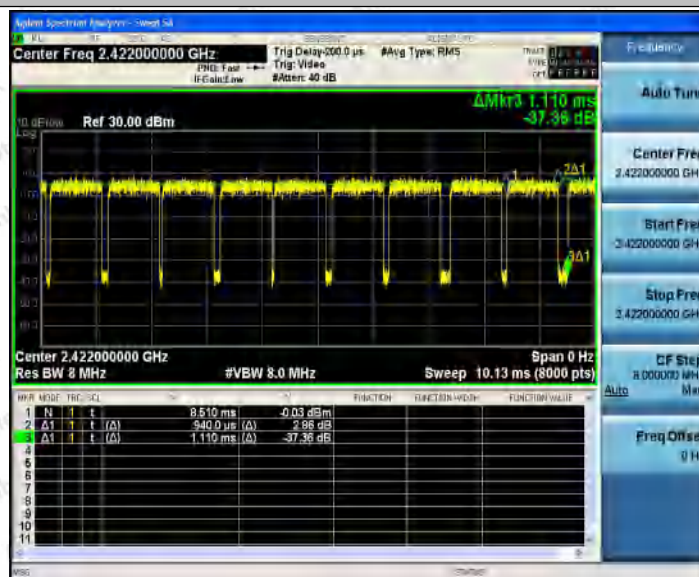
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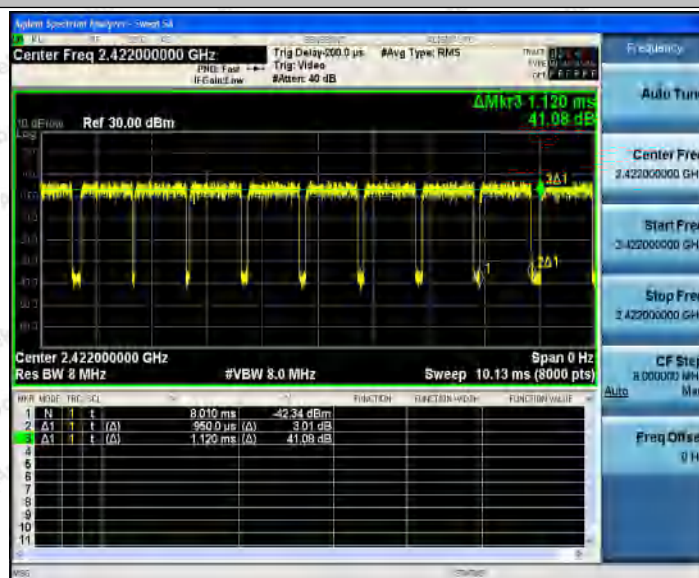
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11N40_Ant1_2422



11N40_Ant2_2422



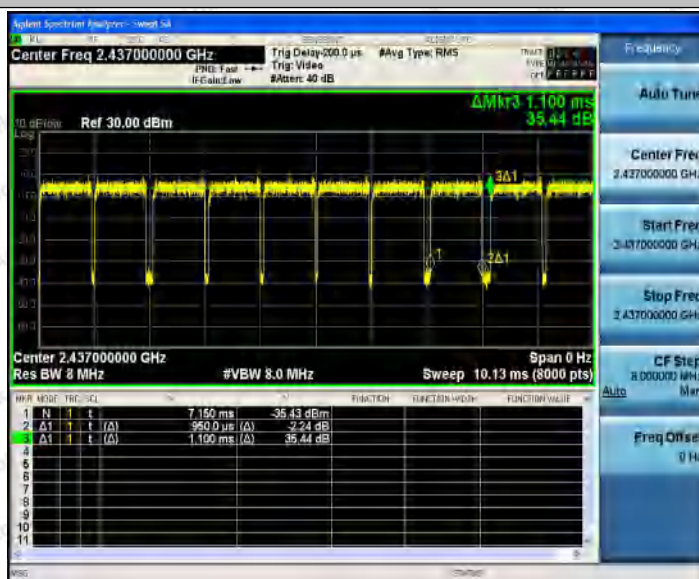
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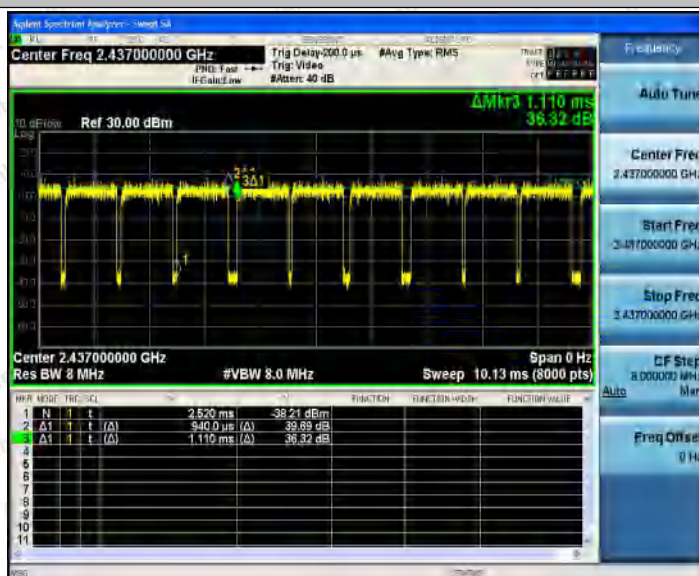
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11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452

