

Appendix Test Data

Report No.:	18220WC10231602	Test Date:	2021.10.29
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	7.160	2408.400	2415.560	≥0.5	PASS
		2437	7.160	2433.400	2440.560	≥0.5	PASS
		2462	7.160	2458.400	2465.560	≥0.5	PASS
11G	Ant1	2412	14.120	2405.680	2419.800	≥0.5	PASS
		2437	15.080	2429.440	2444.520	≥0.5	PASS
		2462	15.240	2454.360	2469.600	≥0.5	PASS
11N20	Ant1	2412	15.200	2404.400	2419.600	≥0.5	PASS
		2437	15.120	2429.480	2444.600	≥0.5	PASS
		2462	15.160	2454.440	2469.600	≥0.5	PASS
11N40	Ant1	2422	35.160	2404.480	2439.640	≥0.5	PASS
		2437	35.280	2419.360	2454.640	≥0.5	PASS
		2452	35.100	2434.480	2469.580	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437



11N20_Ant1_2462



11N40_Ant1_2422



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11N40_Ant1_2437



11N40_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.045	2406.590	2417.635	---	PASS
		2437	11.097	2431.560	2442.657	---	PASS
		2462	11.051	2456.543	2467.594	---	PASS
11G	Ant1	2412	16.777	2403.641	2420.418	---	PASS
		2437	16.894	2428.564	2445.458	---	PASS
		2462	16.706	2453.568	2470.274	---	PASS
11N20	Ant1	2412	17.862	2403.098	2420.960	---	PASS
		2437	17.862	2428.105	2445.967	---	PASS
		2462	17.695	2453.154	2470.849	---	PASS
11N40	Ant1	2422	35.909	2404.083	2439.992	---	PASS
		2437	35.955	2419.043	2454.998	---	PASS
		2452	35.788	2434.125	2469.913	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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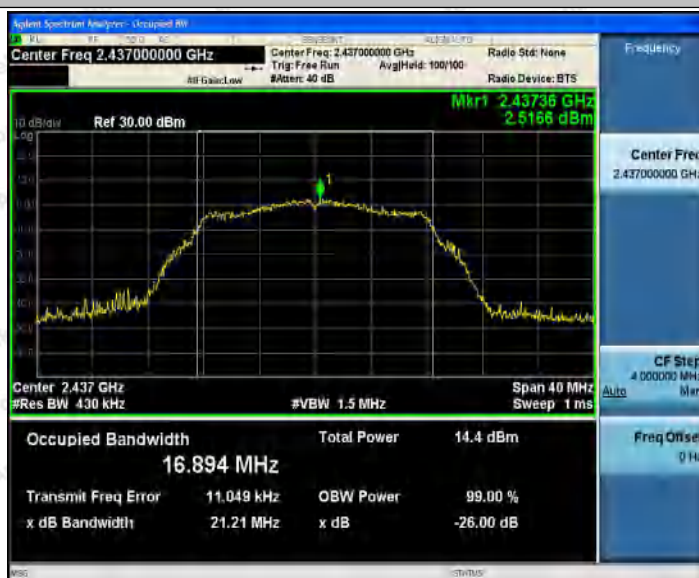
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11G_Ant1_2412



11G_Ant1_2437



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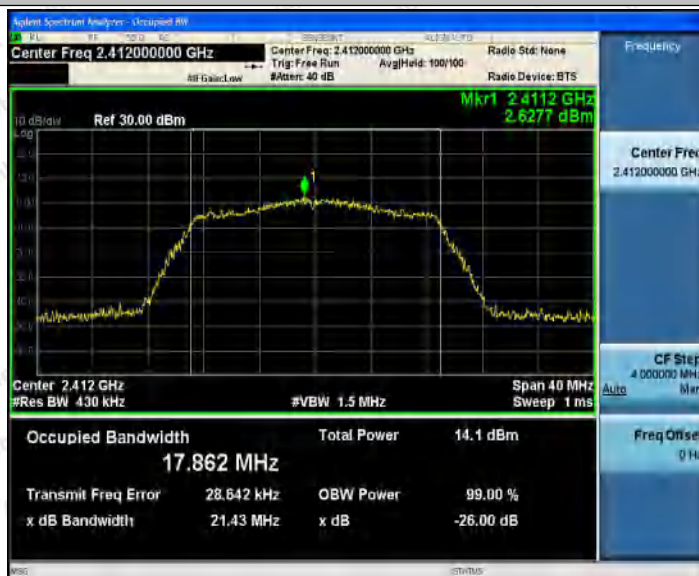
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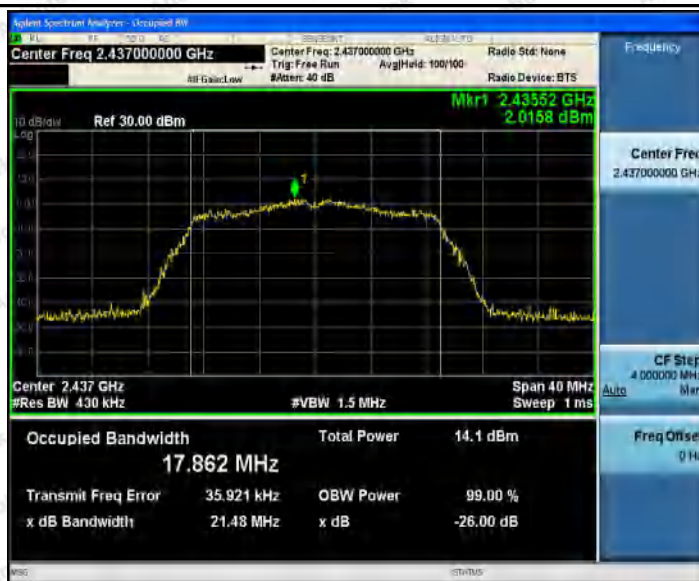
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437



11N20_Ant1_2462



11N40_Ant1_2422



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11N40_Ant1_2437



11N40_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

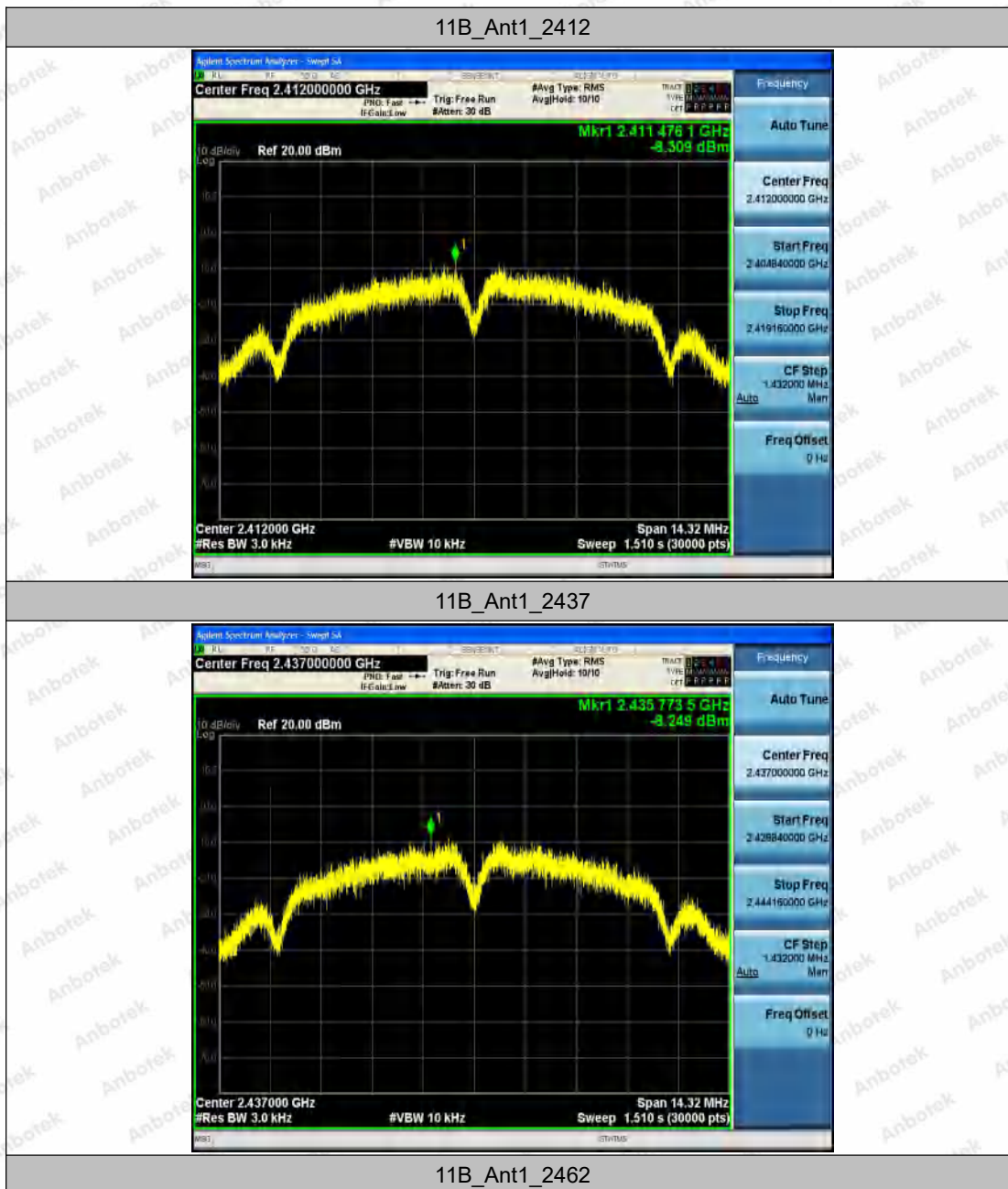
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.79	≤30	PASS
		2437	15.65	≤30	PASS
		2462	15.09	≤30	PASS
11G	Ant1	2412	15.84	≤30	PASS
		2437	15.62	≤30	PASS
		2462	15.13	≤30	PASS
11N20	Ant1	2412	15.18	≤30	PASS
		2437	15.24	≤30	PASS
		2462	14.46	≤30	PASS
11N40	Ant1	2422	15.78	≤30	PASS
		2437	15.42	≤30	PASS
		2452	15.36	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.31	≤8	PASS
		2437	-8.25	≤8	PASS
		2462	-8.63	≤8	PASS
11G	Ant1	2412	-14.04	≤8	PASS
		2437	-14.36	≤8	PASS
		2462	-14.56	≤8	PASS
11N20	Ant1	2412	-14.69	≤8	PASS
		2437	-14.84	≤8	PASS
		2462	-15.58	≤8	PASS
11N40	Ant1	2422	-15.73	≤8	PASS
		2437	-16.14	≤8	PASS
		2452	-14.79	≤8	PASS

Test Graphs



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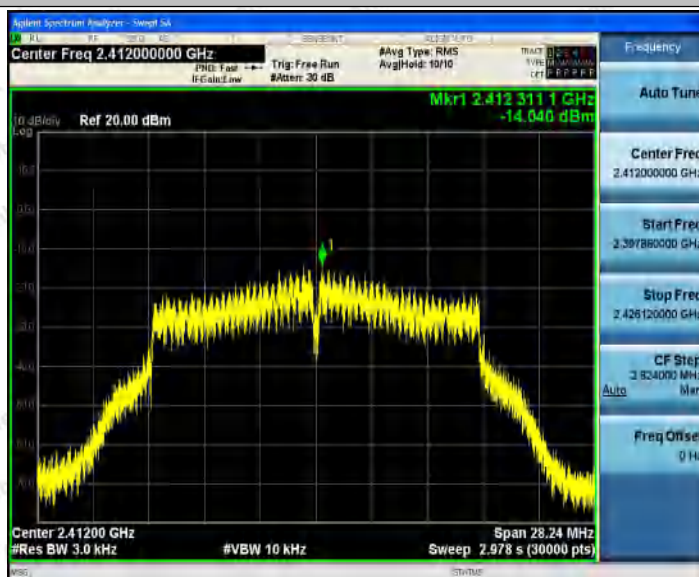
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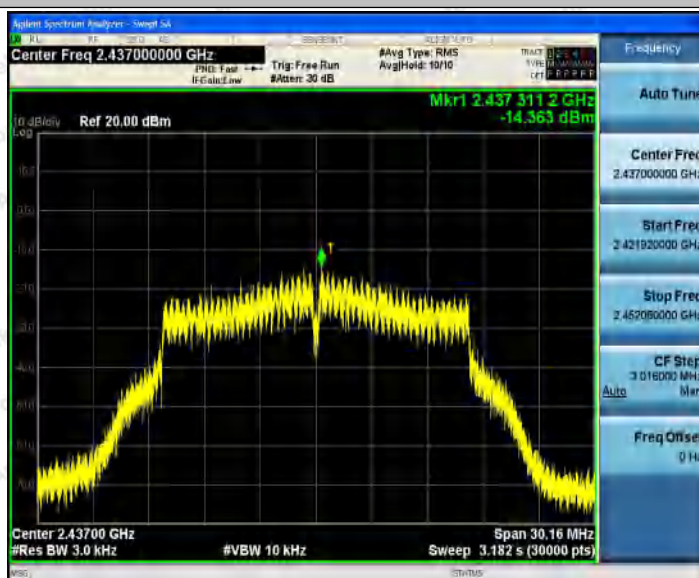
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11G_Ant1_2412



11G_Ant1_2437



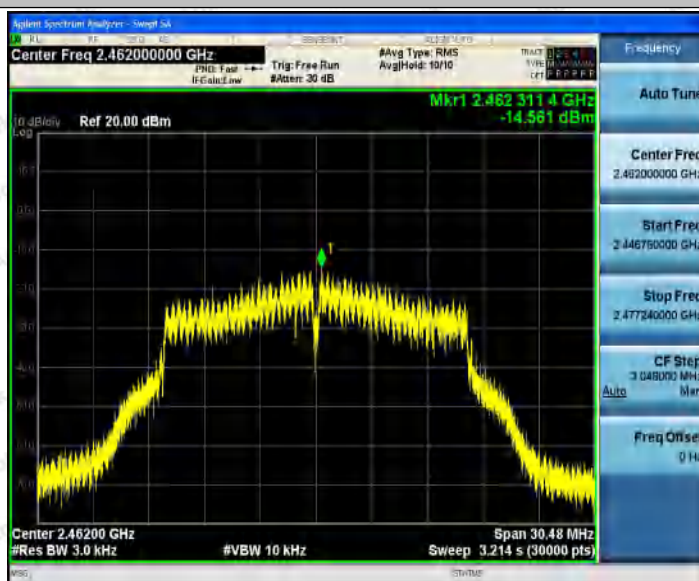
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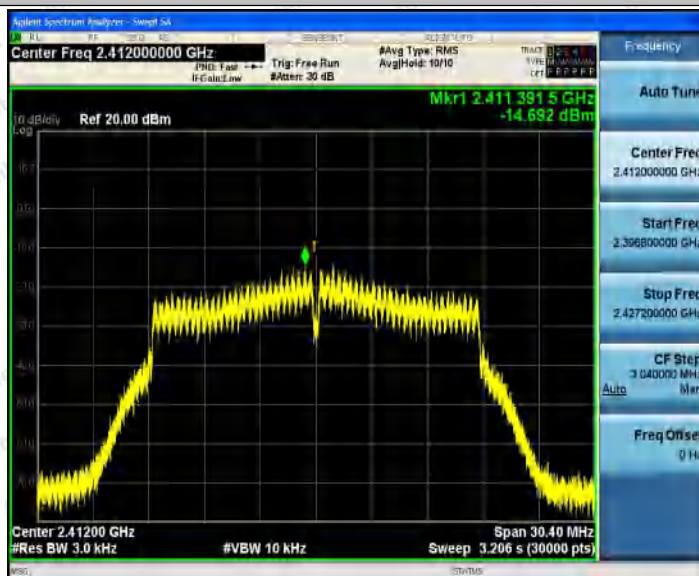
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11G_Ant1_2462



11N20_Ant1_2412



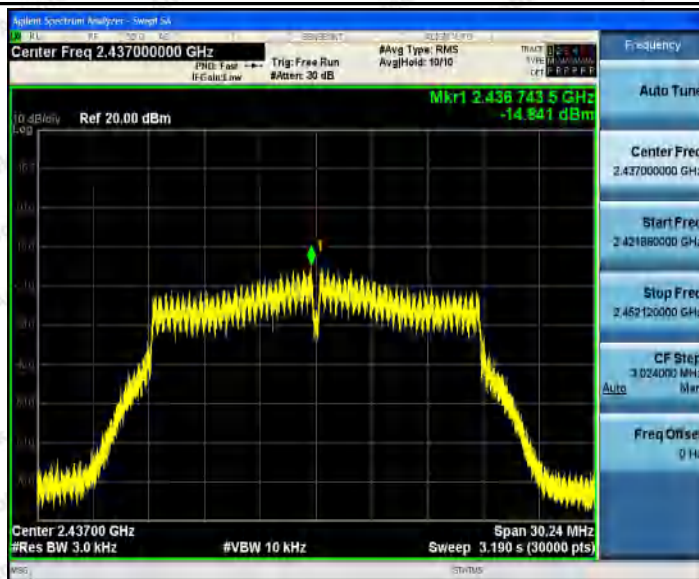
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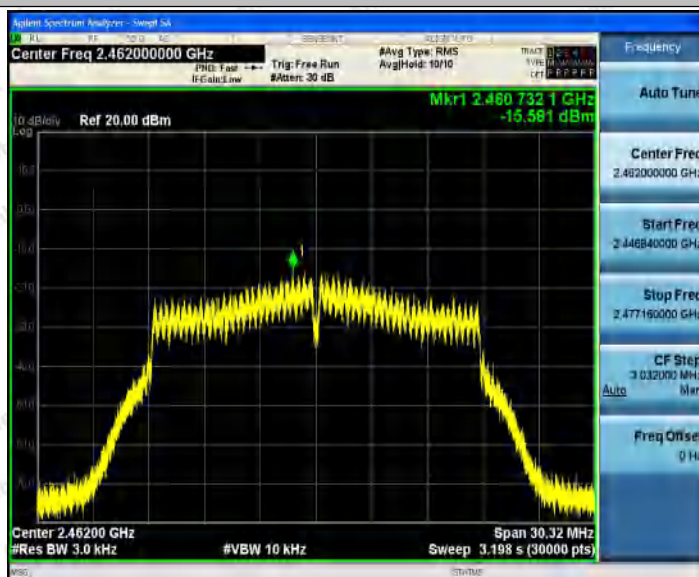
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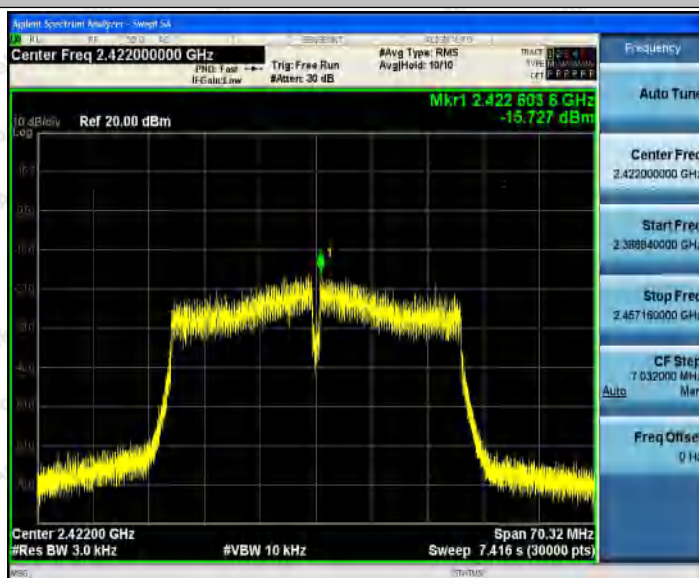
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11N20_Ant1_2462



11N40_Ant1_2422



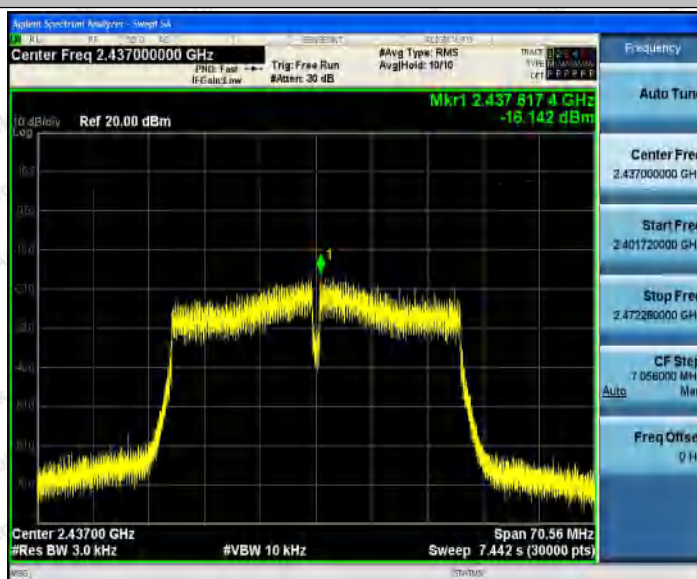
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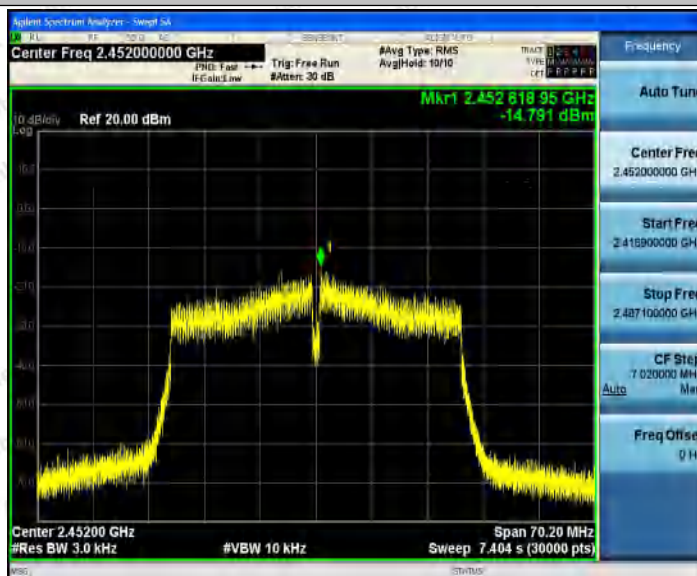
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11N40_Ant1_2437



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	4.71	-42.19	≤ -15.29	PASS
		High	2462	4.02	-57.73	≤ -15.98	PASS
11G	Ant1	Low	2412	-3.11	-44.58	≤ -23.11	PASS
		High	2462	-3.70	-54.76	≤ -23.7	PASS
11N20	Ant1	Low	2412	-3.32	-48.28	≤ -23.32	PASS
		High	2462	-3.11	-55.83	≤ -23.11	PASS
11N40	Ant1	Low	2422	-4.31	-42.24	≤ -24.31	PASS
		High	2452	-4.54	-46.95	≤ -24.54	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20_Ant1_Low_2412



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11N20_Ant1_High_2462



11N40_Ant1_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	4.82	4.82	---	PASS
			30~1000	4.82	-70.1	≤-15.18	PASS
			1000~26500	4.82	-55.2	≤-15.18	PASS
		2437	Reference	4.65	4.65	---	PASS
			30~1000	4.65	-70.05	≤-15.36	PASS
			1000~26500	4.65	-55.19	≤-15.36	PASS
		2462	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-70.21	≤-16.04	PASS
			1000~26500	3.97	-55.49	≤-16.04	PASS
11G	Ant1	2412	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-70.62	≤-22.94	PASS
			1000~26500	-2.94	-55.96	≤-22.94	PASS
		2437	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-70.19	≤-23.09	PASS
			1000~26500	-3.09	-55.48	≤-23.09	PASS
		2462	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-70.25	≤-23.54	PASS
			1000~26500	-3.54	-55.71	≤-23.54	PASS
11N20	Ant1	2412	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-70.69	≤-22.71	PASS
			1000~26500	-2.71	-55.6	≤-22.71	PASS
		2437	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-70.3	≤-23.57	PASS
			1000~26500	-3.57	-53.71	≤-23.57	PASS
		2462	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-69.78	≤-23.73	PASS
			1000~26500	-3.73	-55.07	≤-23.73	PASS
11N40	Ant1	2422	Reference	-4.21	-4.21	---	PASS
			30~1000	-4.21	-69.68	≤-24.21	PASS
			1000~26500	-4.21	-55.04	≤-24.21	PASS
		2437	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-70.69	≤-24.36	PASS
			1000~26500	-4.36	-55.42	≤-24.36	PASS
		2452	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-70.74	≤-24.61	PASS
			1000~26500	-4.61	-54.7	≤-24.61	PASS

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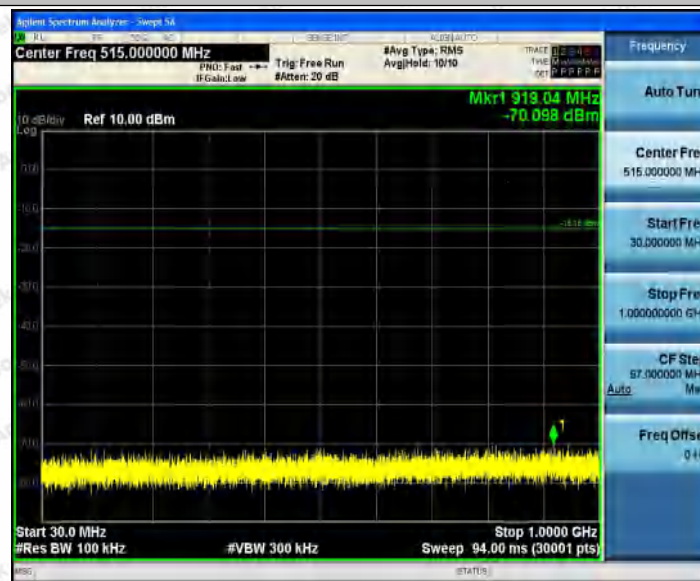
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Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

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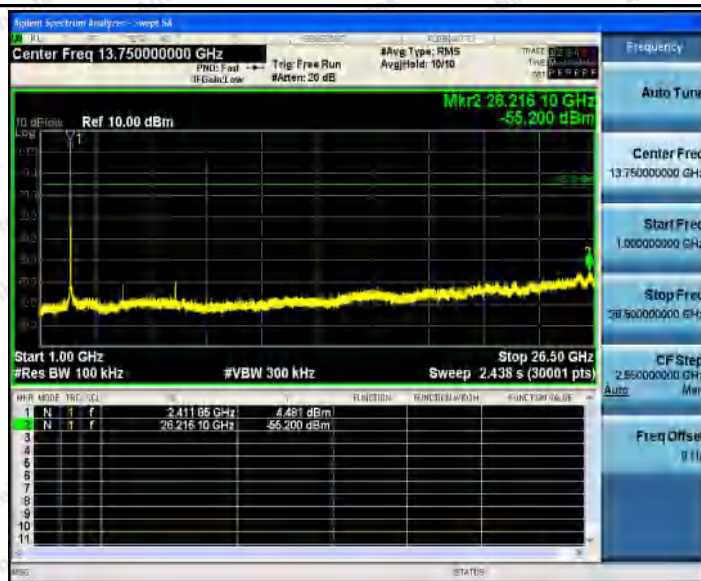
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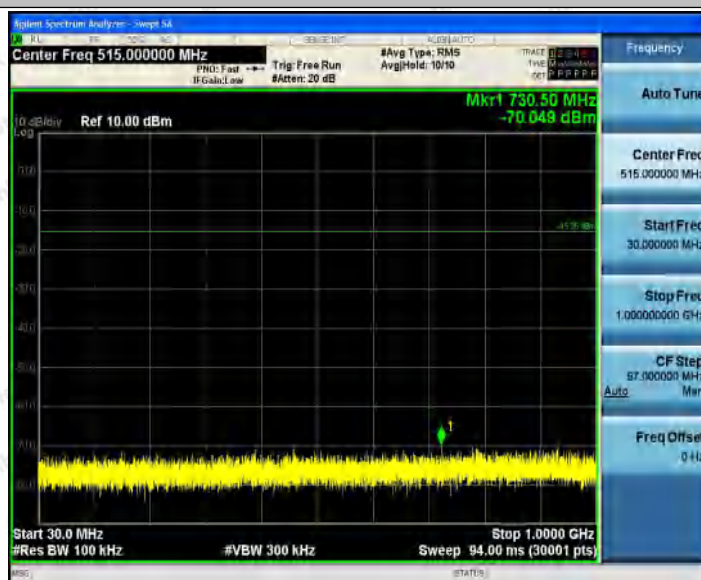
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11B_Ant1_2437_30~1000



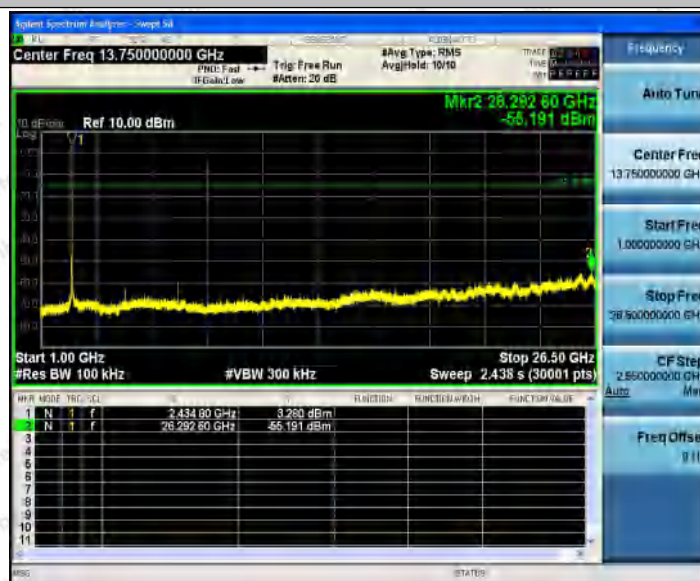
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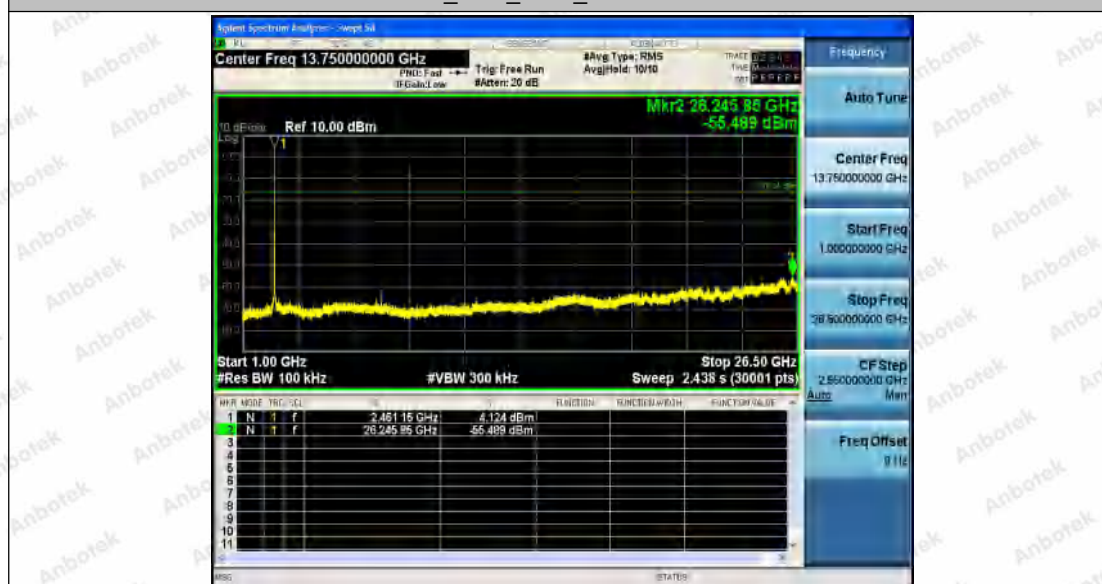
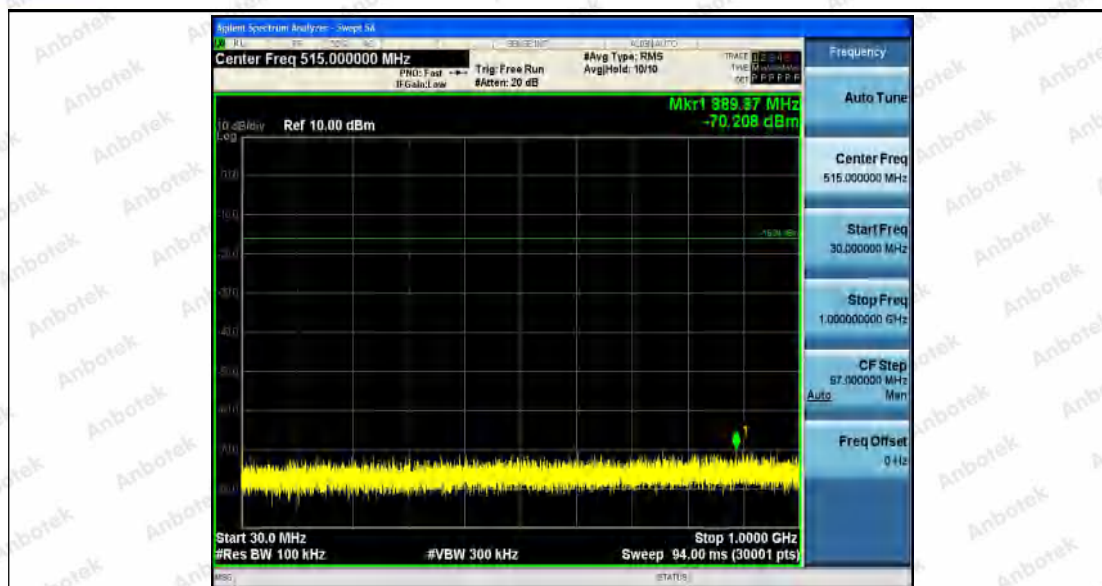
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11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



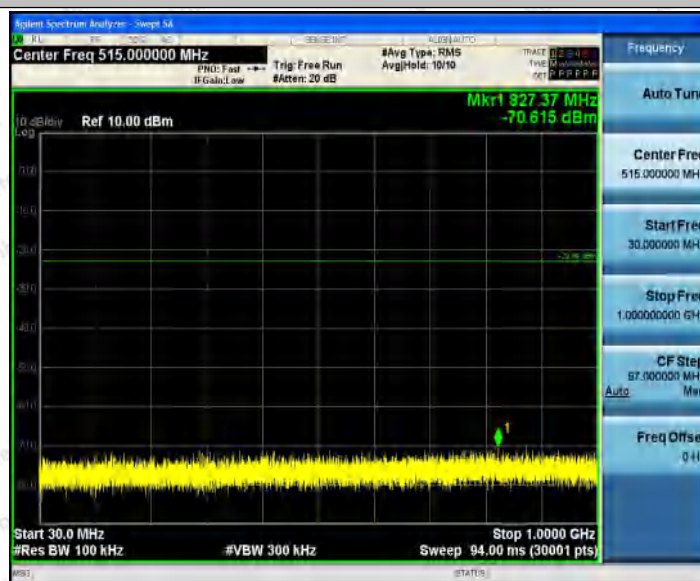
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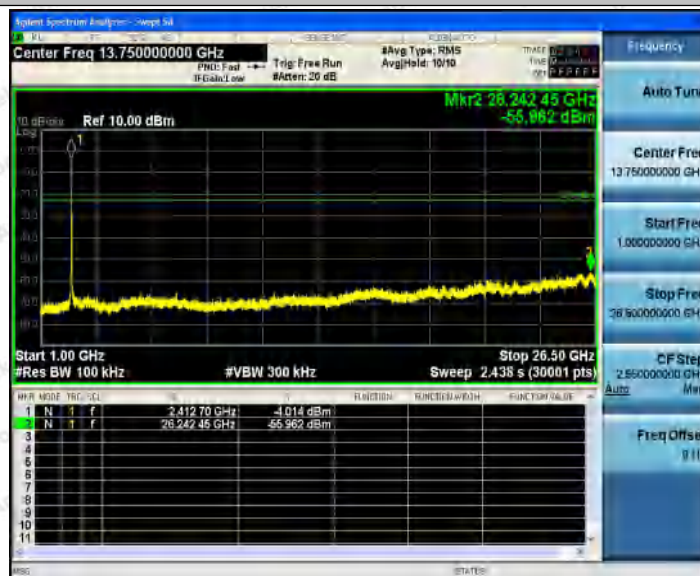
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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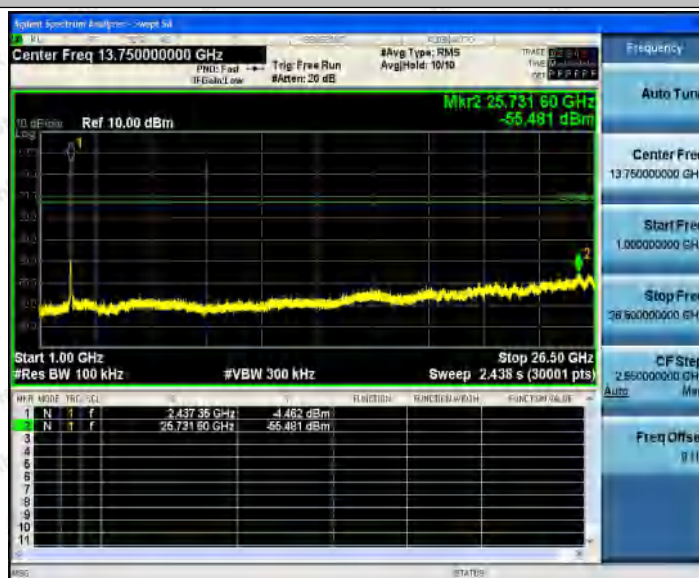
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

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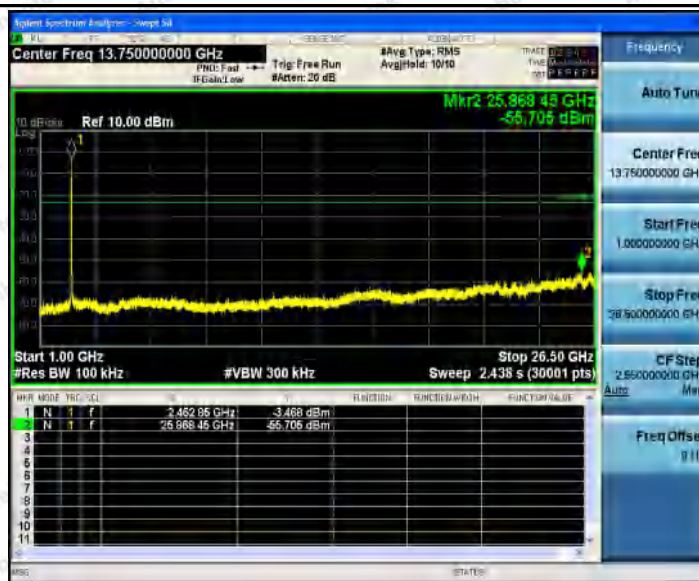
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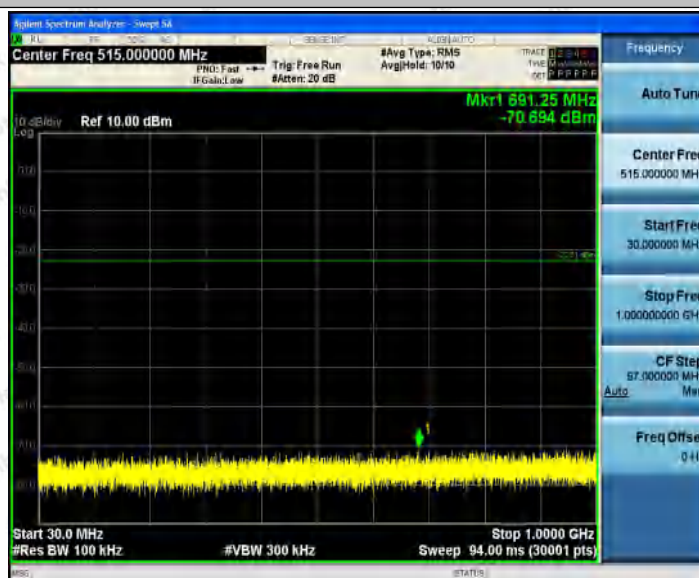
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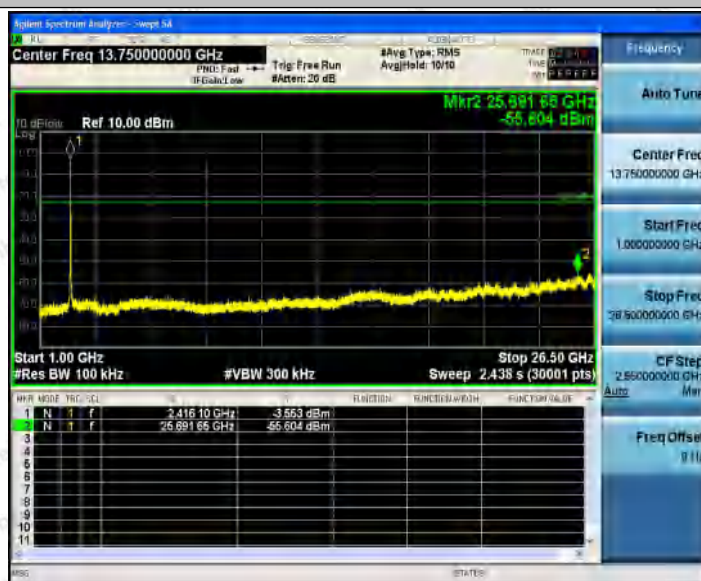
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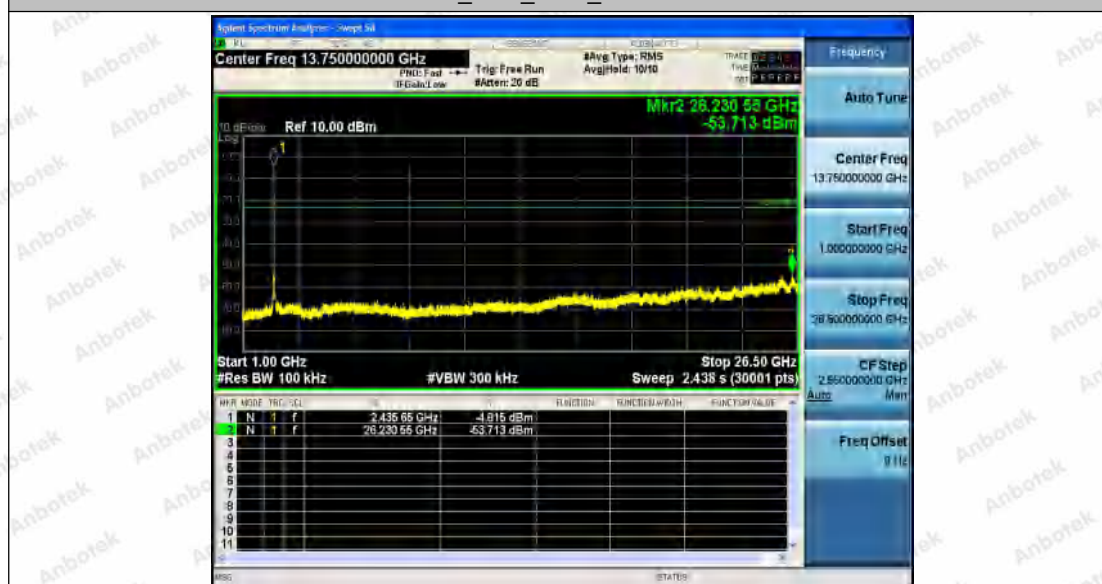
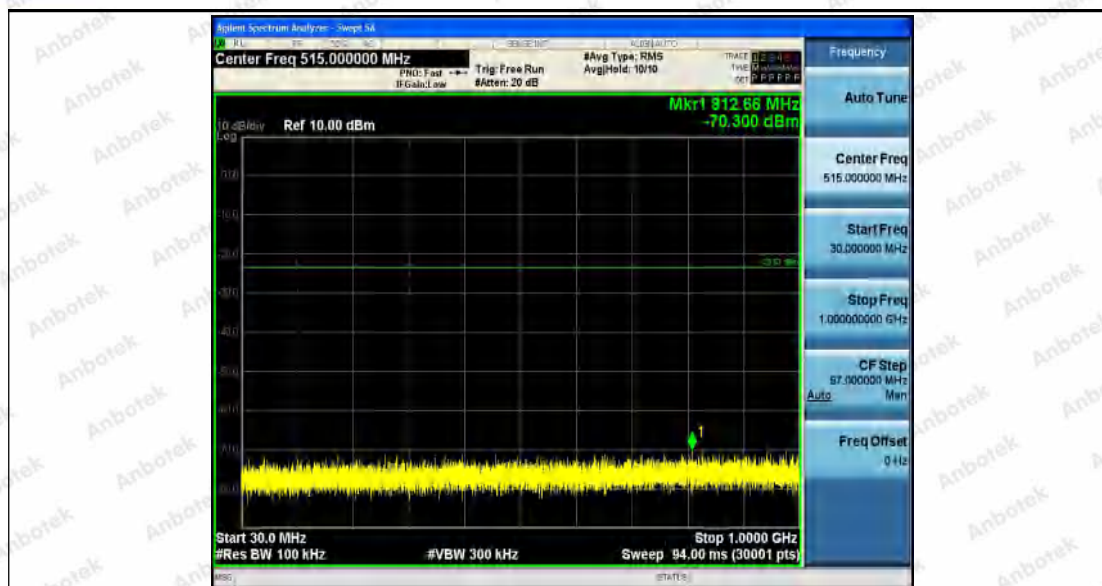
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11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000



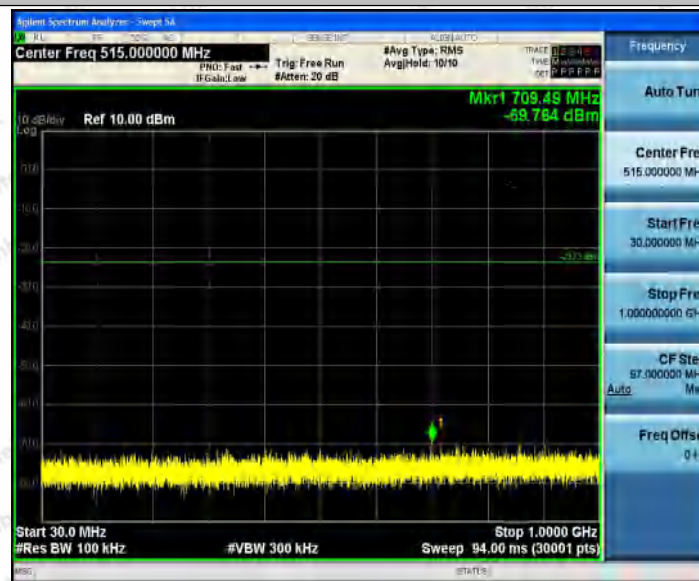
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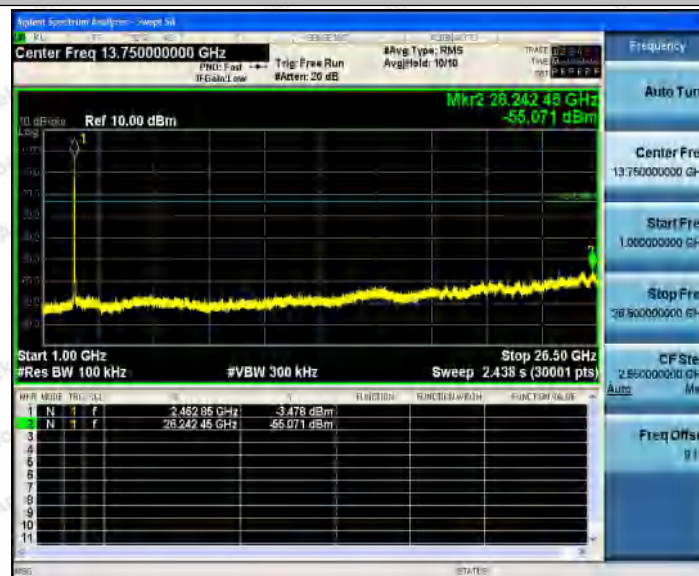
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11N20_Ant1_2462_30~1000



11N20_Ant1_2462_1000~26500



11N40_Ant1_2422_0~Reference

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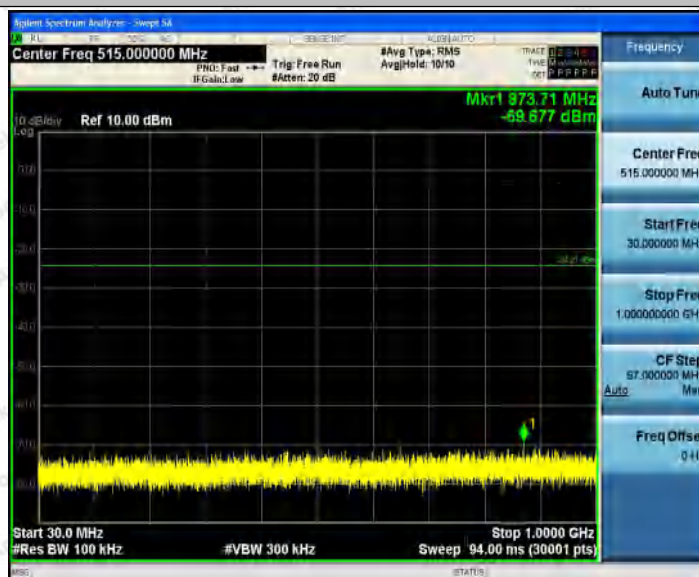
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

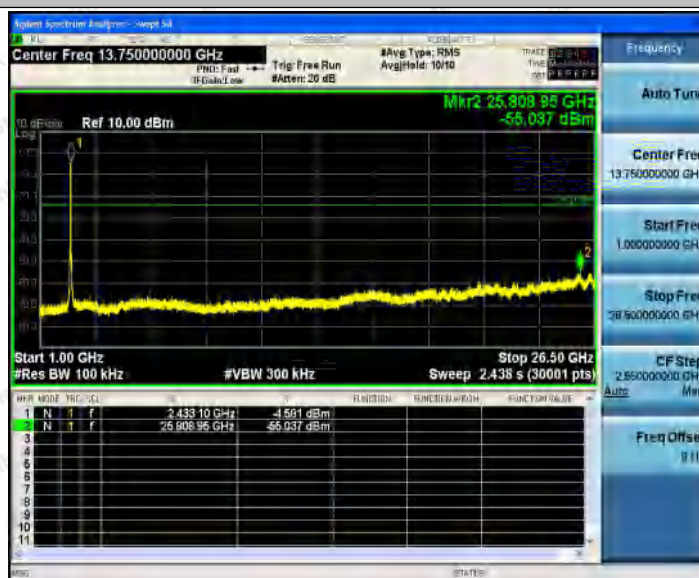
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11N40_Ant1_2422_30~1000



11N40_Ant1_2422_1000~26500



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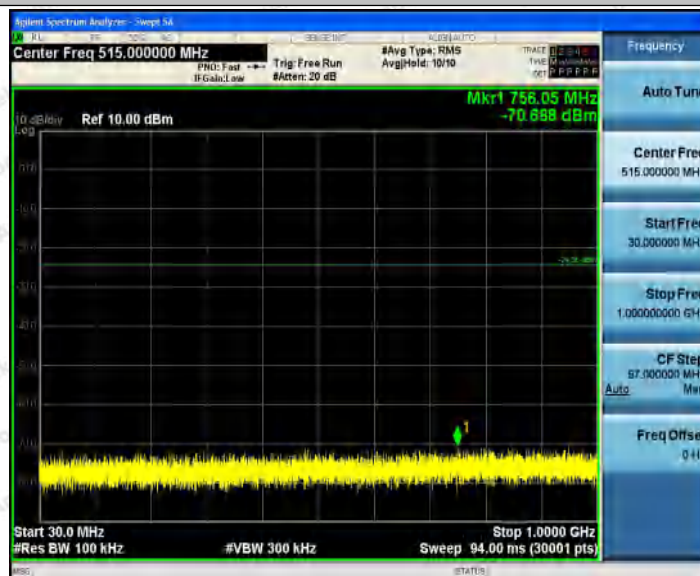
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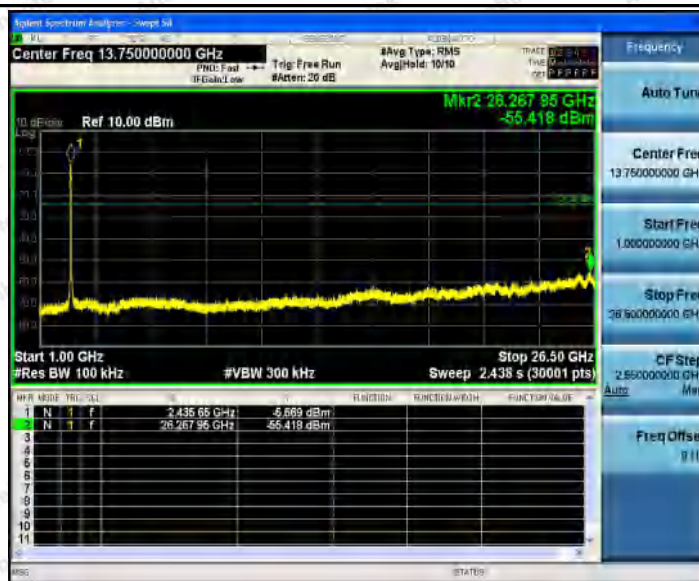
11N40_Ant1_2437_0~Reference



11N40_Ant1_2437_30~1000



11N40_Ant1_2437_1000~26500



11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000

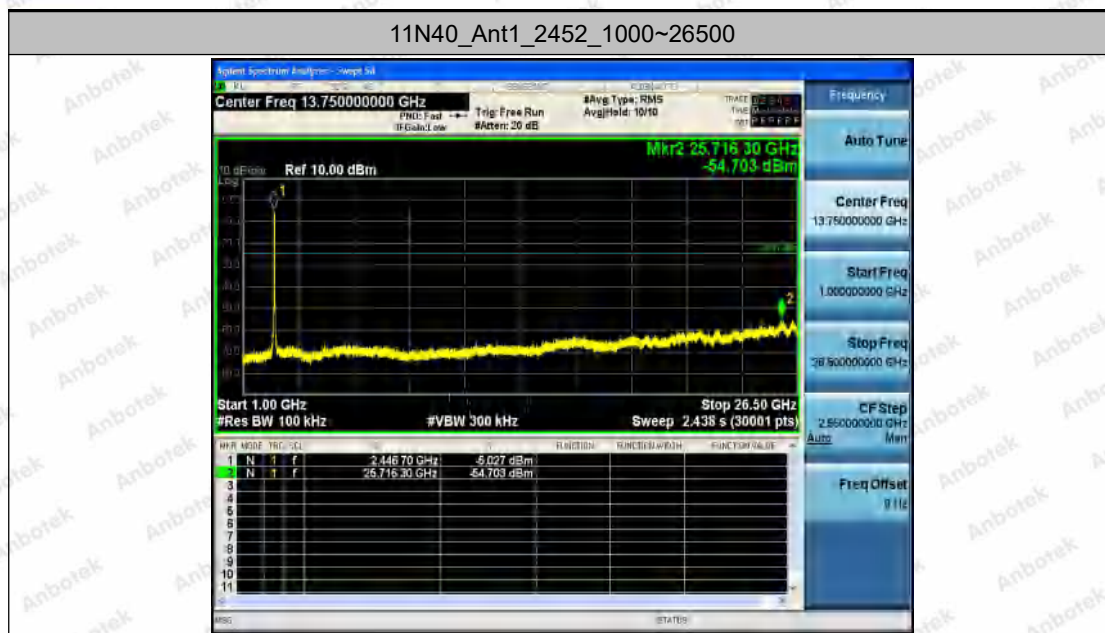


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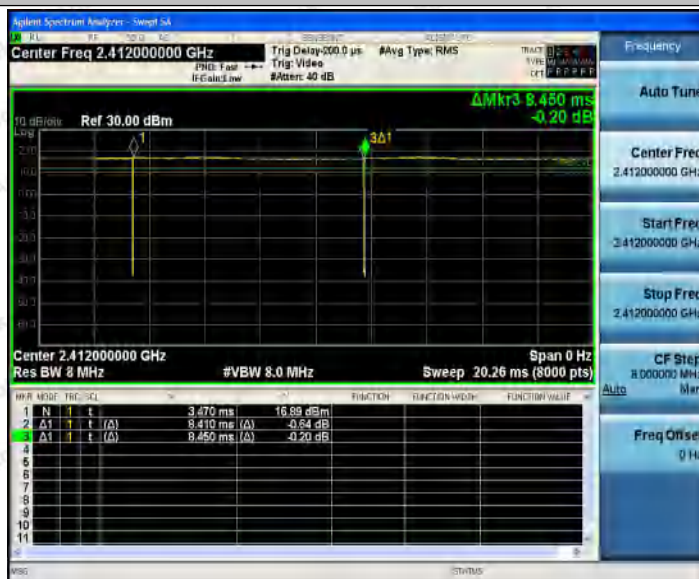
Appendix G: Duty Cycle

Test Result

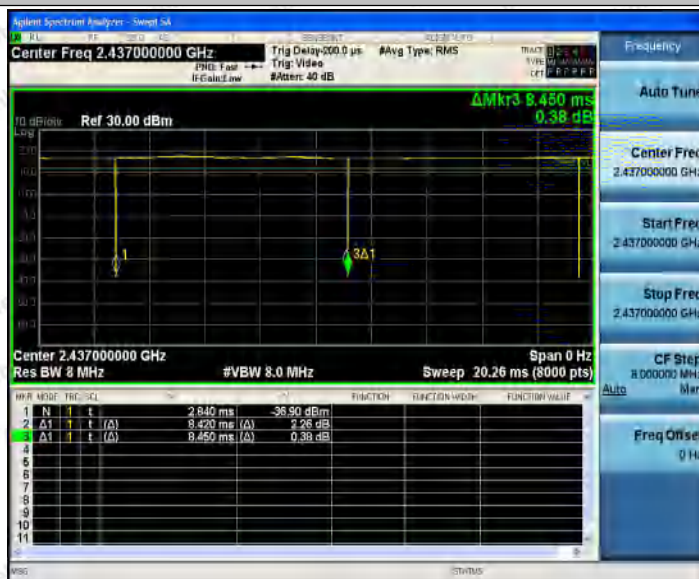
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.41	8.45	99.53	---	PASS
		2437	8.42	8.45	99.64	---	PASS
		2462	8.41	8.45	99.53	---	PASS
11G	Ant1	2412	1.39	1.44	96.53	---	PASS
		2437	1.40	1.44	97.22	---	PASS
		2462	1.40	1.44	97.22	---	PASS
11N20	Ant1	2412	1.31	1.35	97.04	---	PASS
		2437	1.31	1.35	97.04	---	PASS
		2462	1.31	1.35	97.04	---	PASS
11N40	Ant1	2422	0.65	0.69	94.20	---	PASS
		2437	0.65	0.73	89.04	---	PASS
		2452	0.65	0.69	94.20	---	PASS

Test Graphs

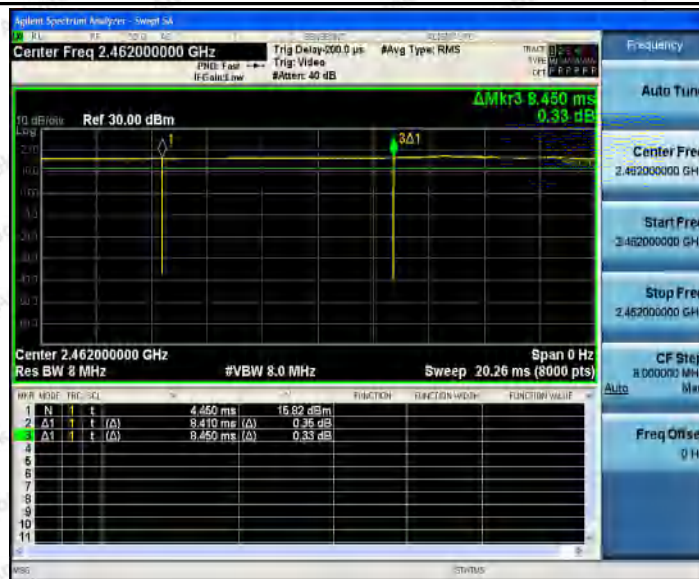
11B_Ant1_2412



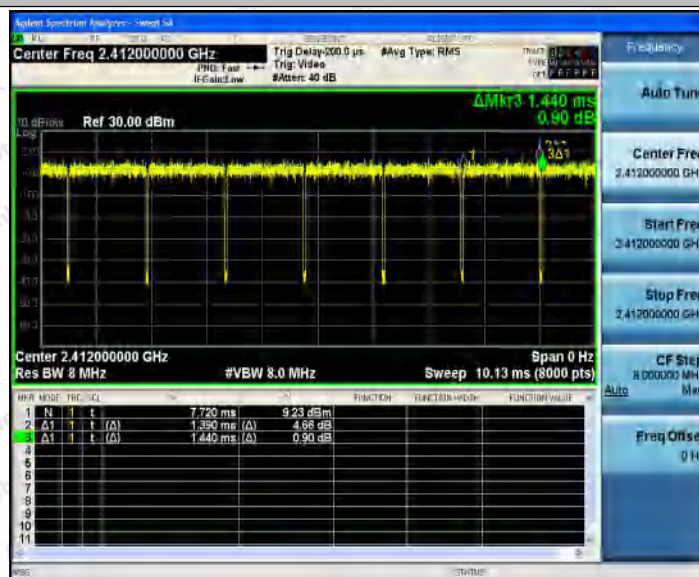
11B_Ant1_2437



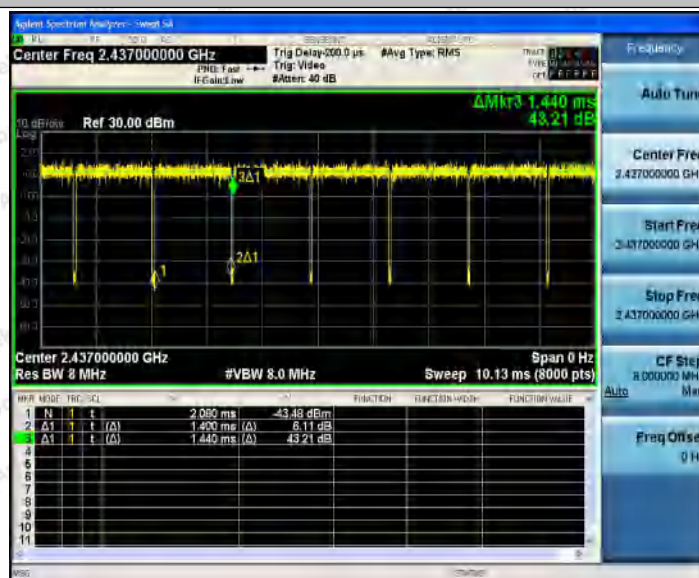
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



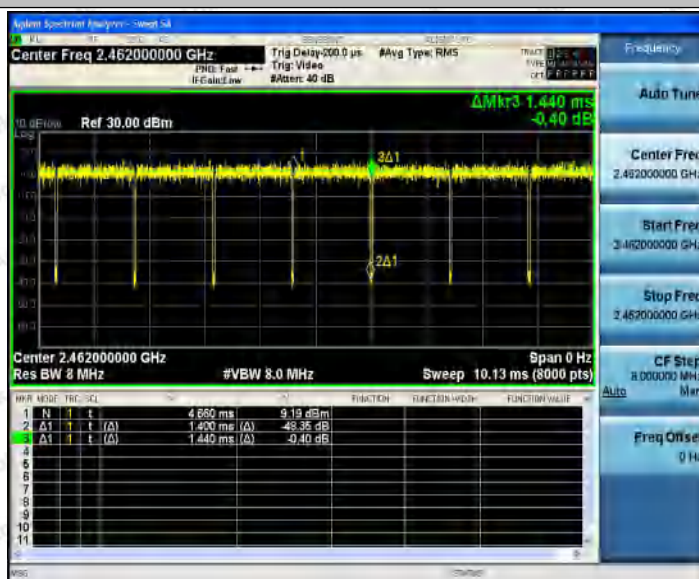
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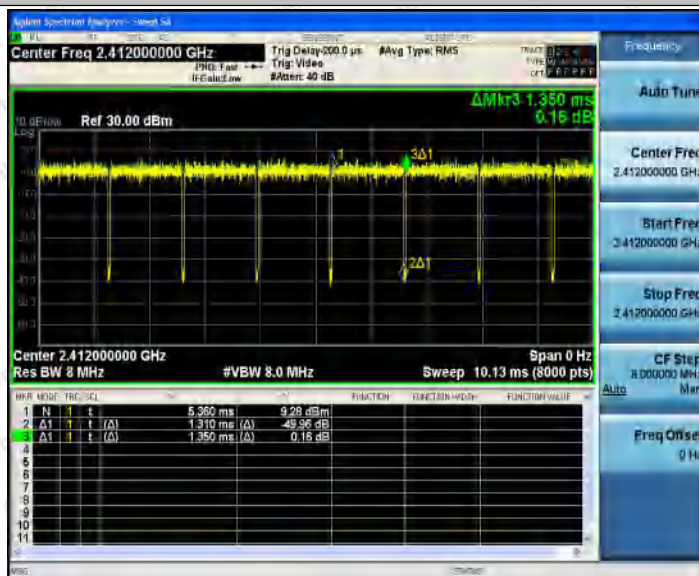
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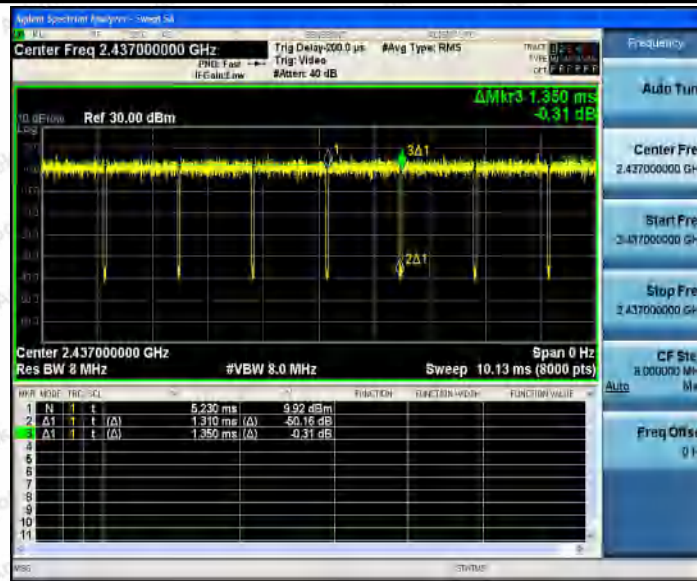
11G_Ant1_2462



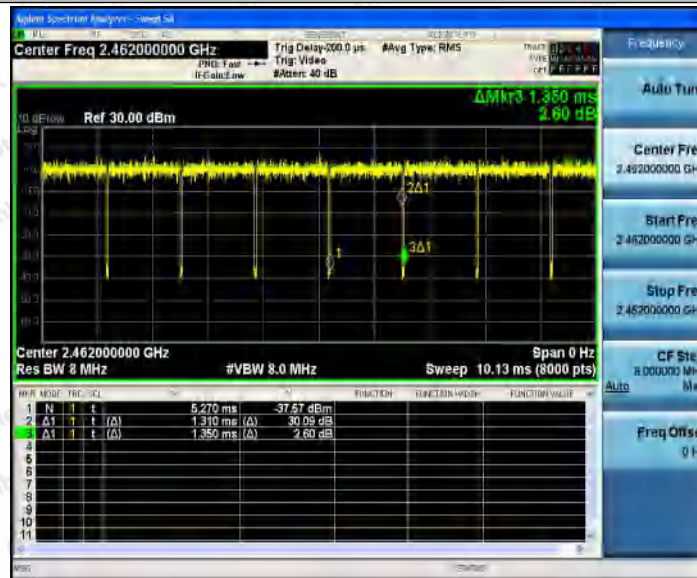
11N20_Ant1_2412



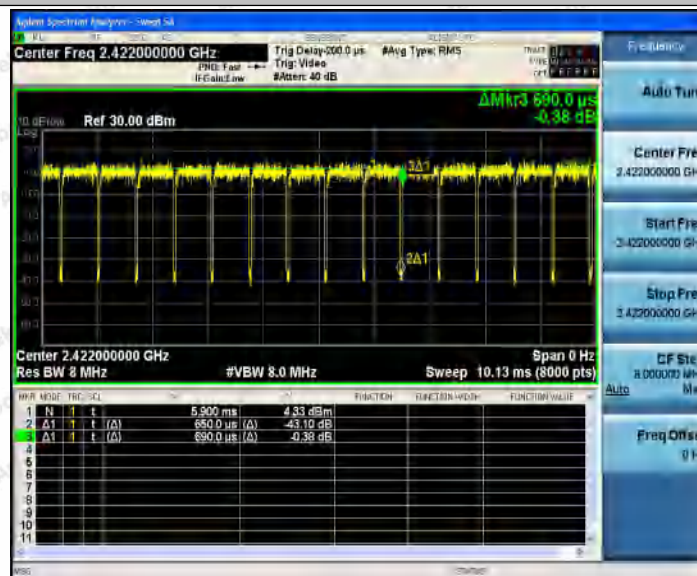
11N20_Ant1_2437



11N20_Ant1_2462



11N40_Ant1_2422



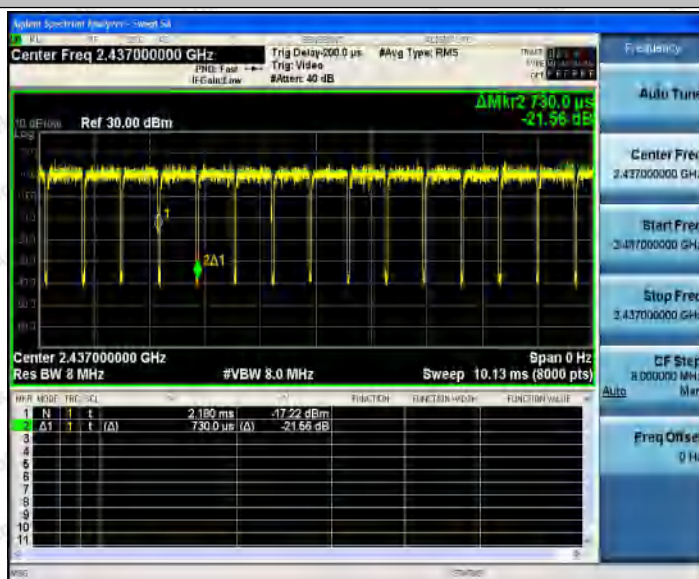
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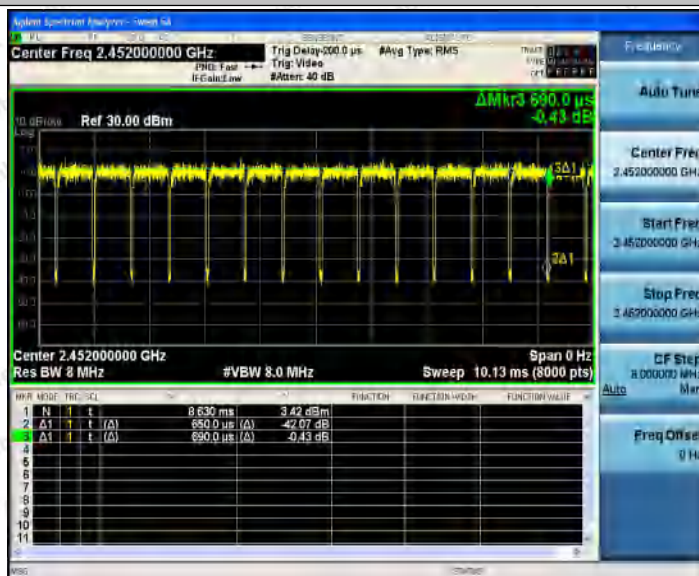
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11N40_Ant1_2437



11N40_Ant1_2452



---End---