

Appendix Test Data

Report No.:	18220WC20184601	Test Sample No.:	1-2-2
Start Test Date:	2022.8.25	Finish Test Date:	2022.8.30
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
	Ant2	2412	9.080	2407.960	2417.040	0.5	PASS
	Ant1	2437	8.560	2432.960	2441.520	0.5	PASS
	Ant2	2437	9.080	2432.480	2441.560	0.5	PASS
	Ant1	2462	9.080	2457.480	2466.560	0.5	PASS
	Ant2	2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
	Ant2	2437	16.360	2428.840	2445.200	0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
	Ant2	2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
	Ant2	2412	17.560	2403.240	2420.800	0.5	PASS
	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
	Ant2	2437	17.600	2428.200	2445.800	0.5	PASS
	Ant1	2462	17.600	2453.200	2470.800	0.5	PASS
	Ant2	2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.160	2439.920	0.5	PASS
	Ant2	2422	35.920	2404.000	2439.920	0.5	PASS
	Ant1	2437	36.000	2419.160	2455.160	0.5	PASS
	Ant2	2437	35.680	2419.080	2454.760	0.5	PASS

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	Ant1	2452	35.840	2434.080	2469.920	0.5	PASS
	Ant2	2452	35.920	2433.840	2469.760	0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462





11B_Ant2_2462



11G_Ant1_2412





11G_Ant2_2412



11G_Ant1_2437





11G_Ant2_2437



11G_Ant1_2462





11G_Ant2_2462



11N20SISO_Ant1_2412



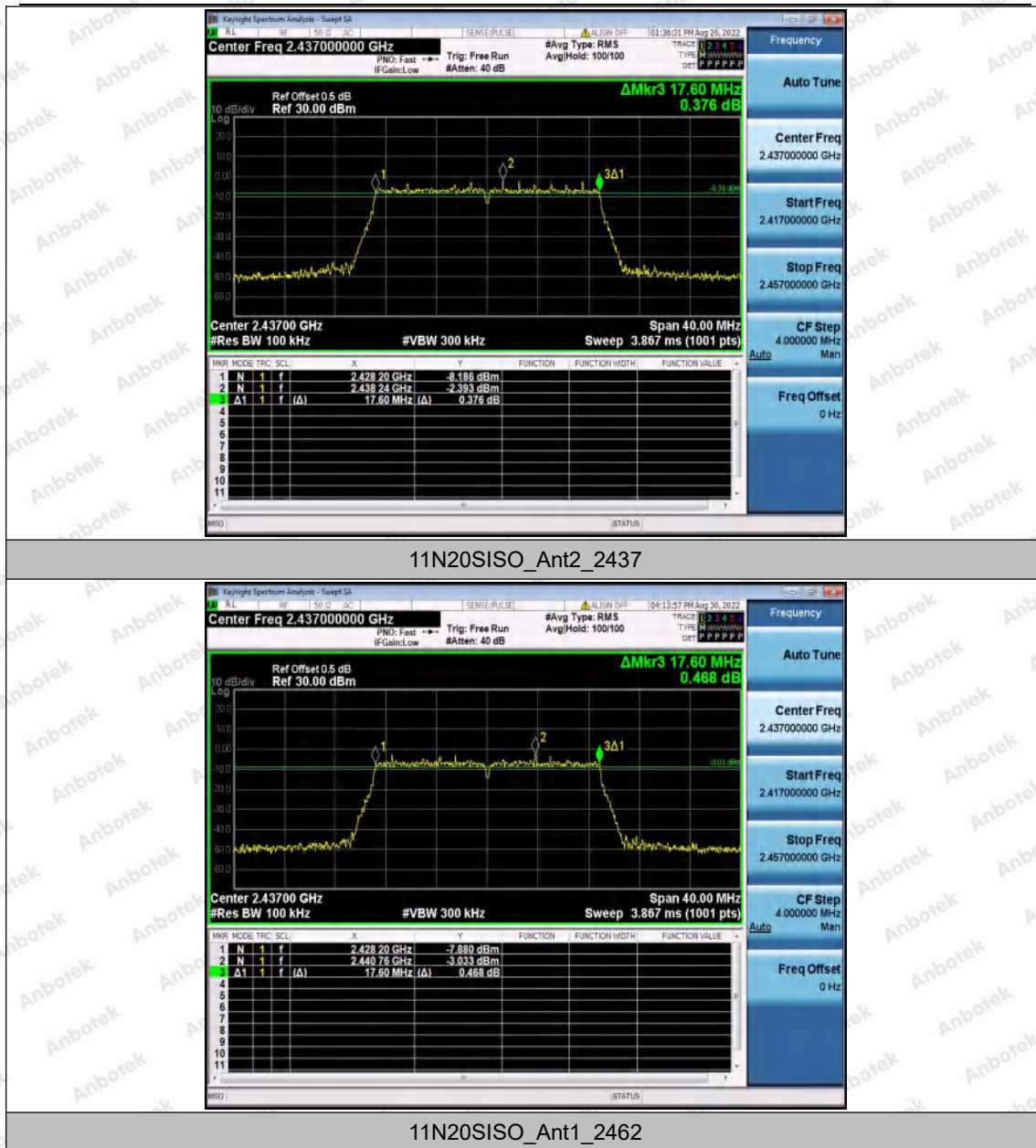


11N20SISO_Ant2_2412



11N20SISO_Ant1_2437





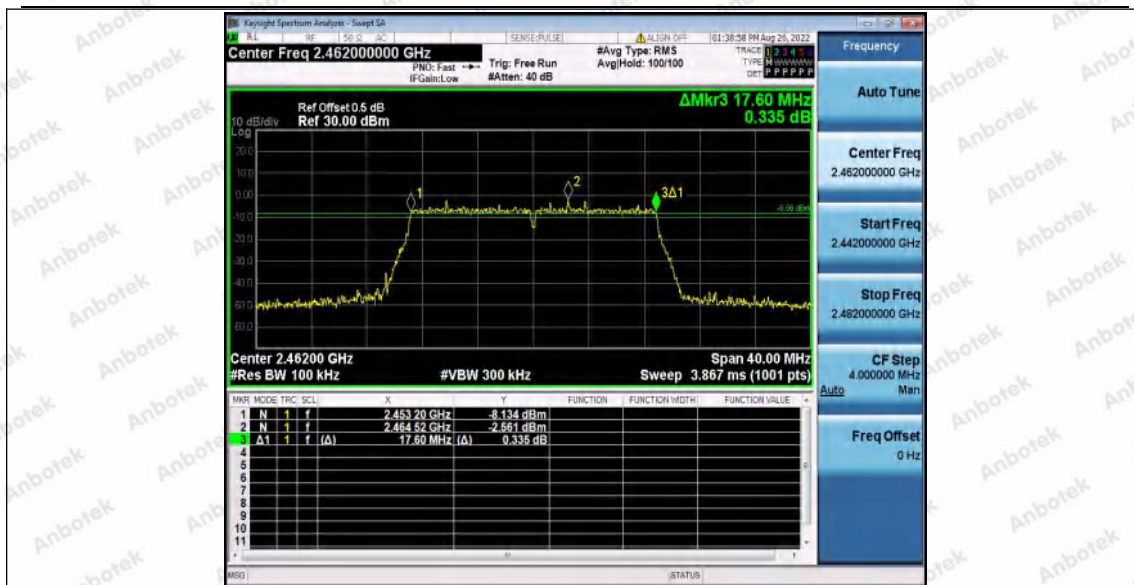
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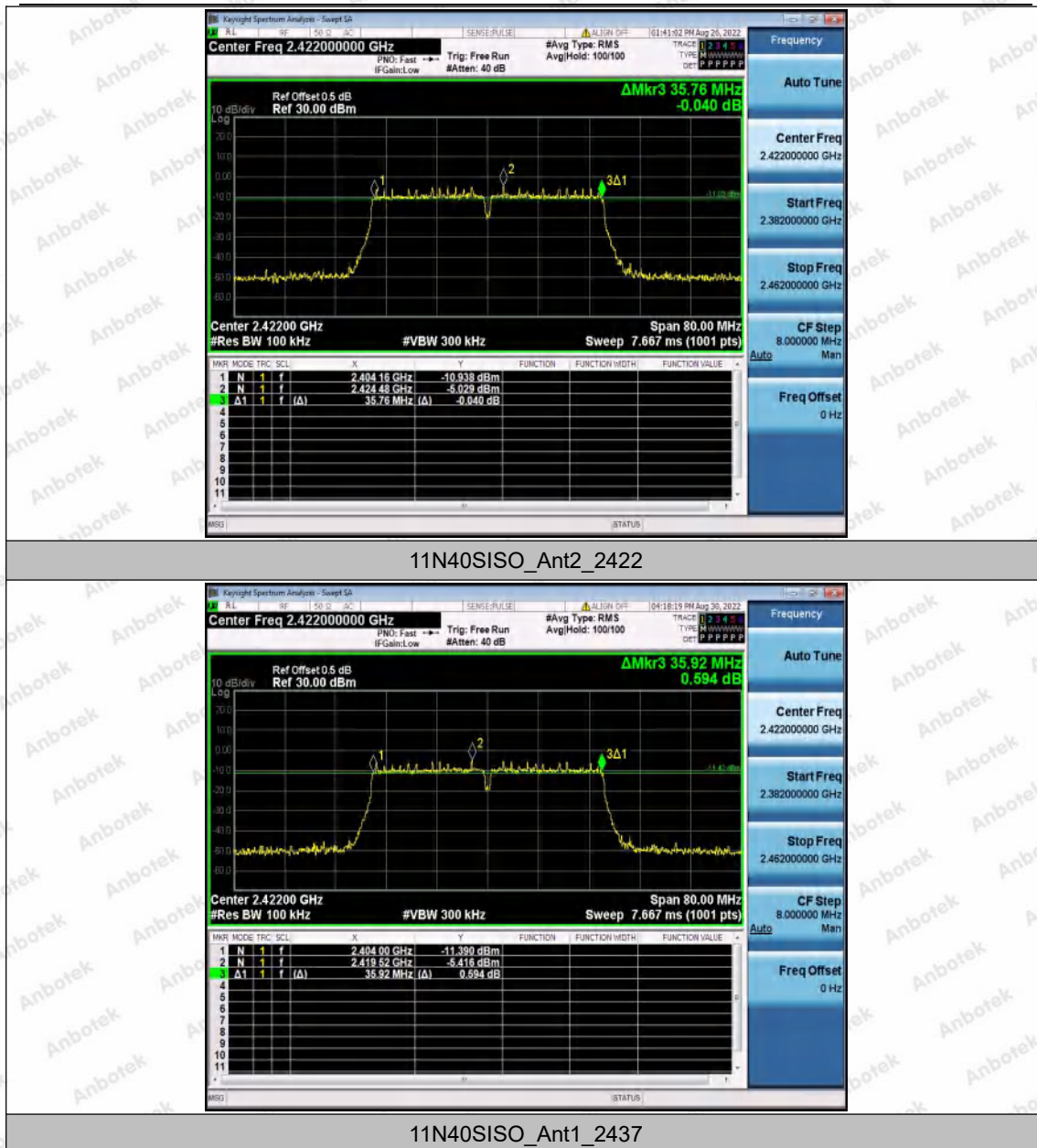


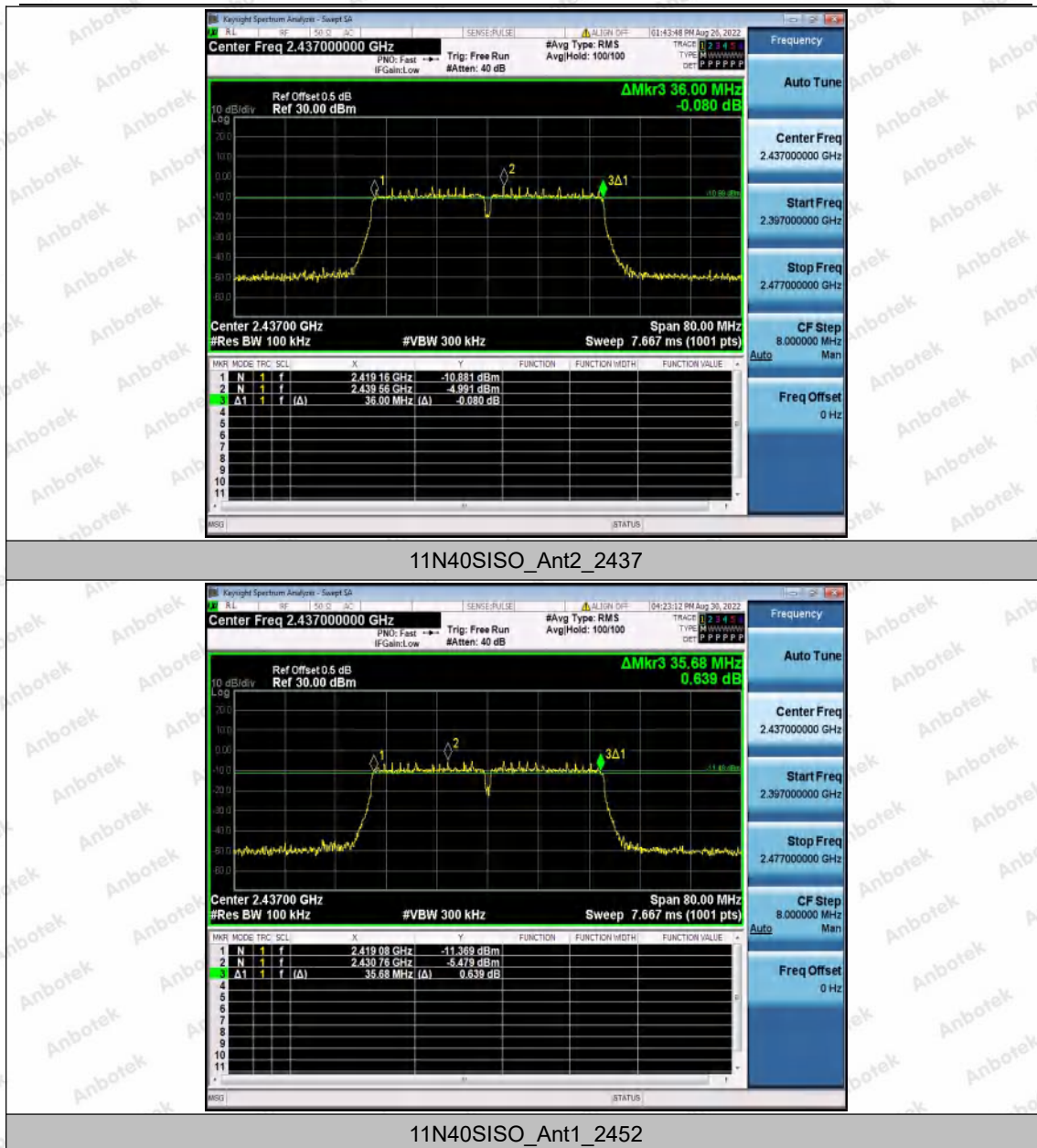
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11N40SISO_Ant1_2422







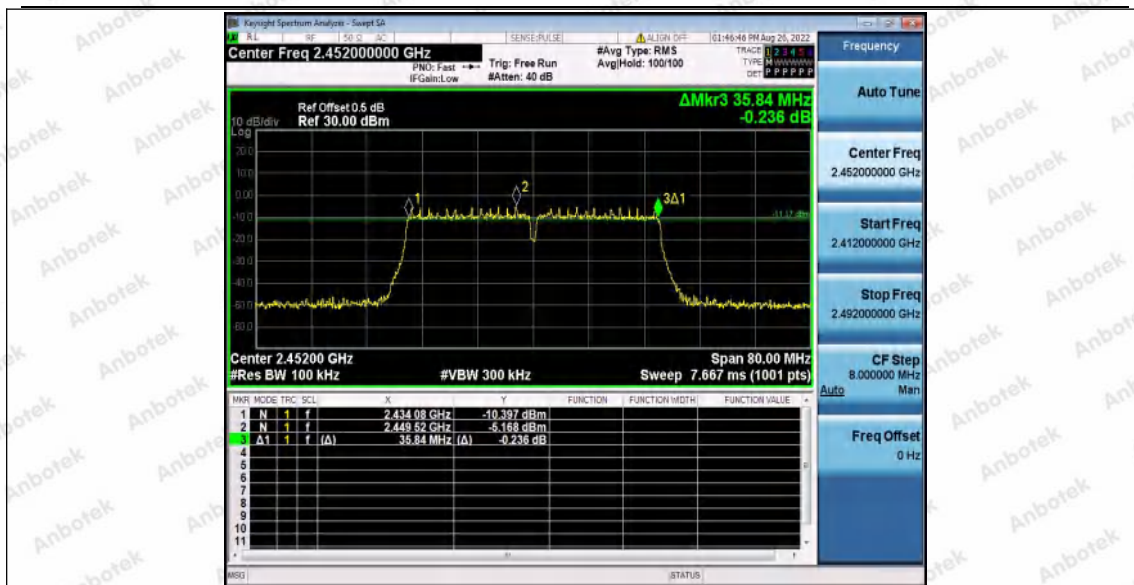
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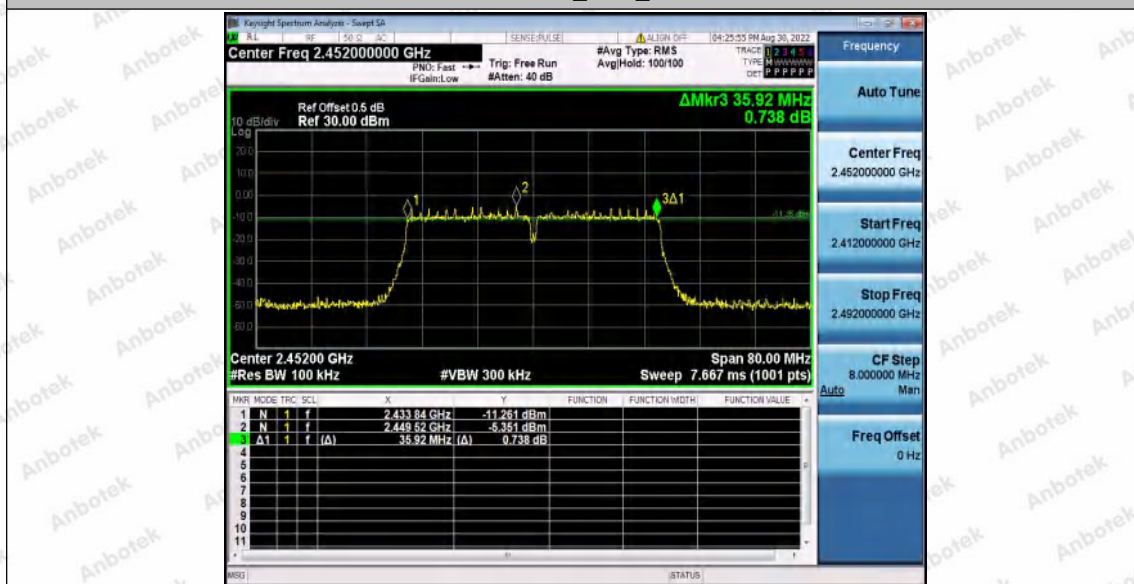


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11N40SISO_Ant2_2452



Appendix B: Occupied Channel Bandwidth

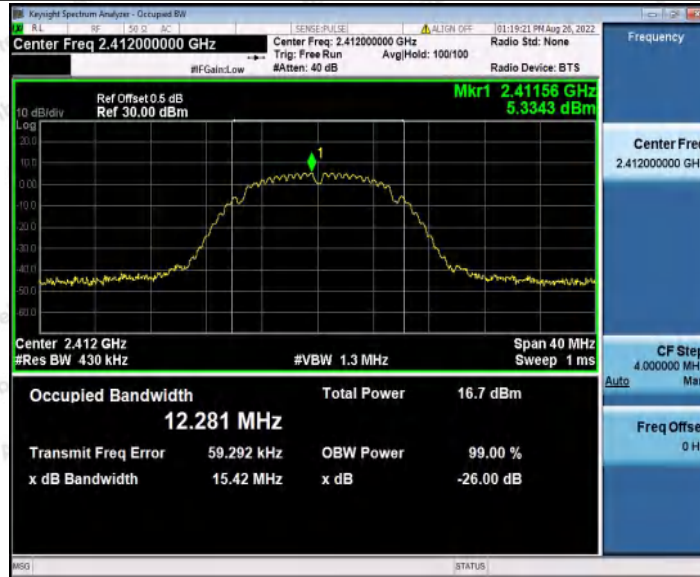
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.281	2405.9188	2418.1998
	Ant2	2412	12.294	2405.9191	2418.2131
	Ant1	2437	12.297	2430.8969	2443.1939
	Ant2	2437	12.294	2430.9025	2443.1965
	Ant1	2462	12.294	2455.8901	2468.1841
	Ant2	2462	12.320	2455.8824	2468.2024
11G	Ant1	2412	17.063	2403.5511	2420.6141
	Ant2	2412	17.083	2403.4949	2420.5779
	Ant1	2437	17.115	2428.4834	2445.5984
	Ant2	2437	17.025	2428.5111	2445.5361
	Ant1	2462	17.053	2453.4867	2470.5397
	Ant2	2462	17.031	2453.4809	2470.5119
11N20SISO	Ant1	2412	17.940	2403.0734	2421.0134
	Ant2	2412	17.956	2403.0563	2421.0123
	Ant1	2437	17.971	2428.0699	2446.0409
	Ant2	2437	17.965	2428.0604	2446.0254
	Ant1	2462	17.929	2453.0509	2470.9799
	Ant2	2462	17.928	2453.0807	2471.0087
11N40SISO	Ant1	2422	36.352	2403.9150	2440.2670
	Ant2	2422	36.339	2403.8998	2440.2388
	Ant1	2437	36.393	2418.8696	2455.2626
	Ant2	2437	36.298	2418.9507	2455.2487
	Ant1	2452	36.274	2433.9430	2470.2170
	Ant2	2452	36.404	2433.8648	2470.2688

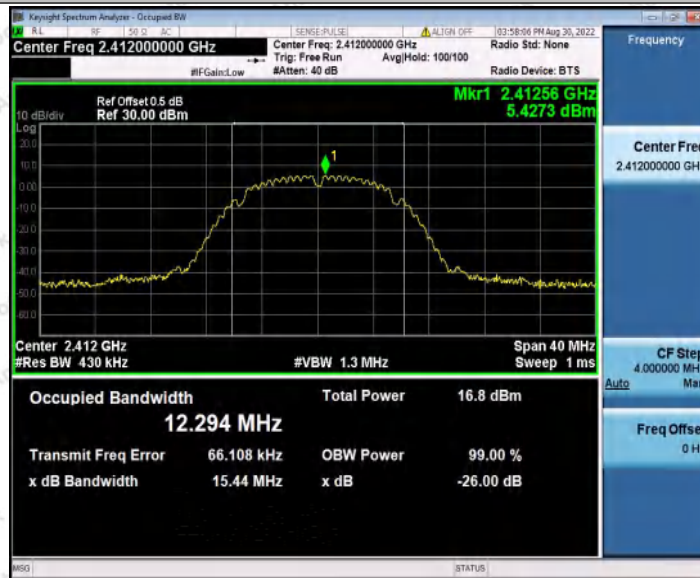


Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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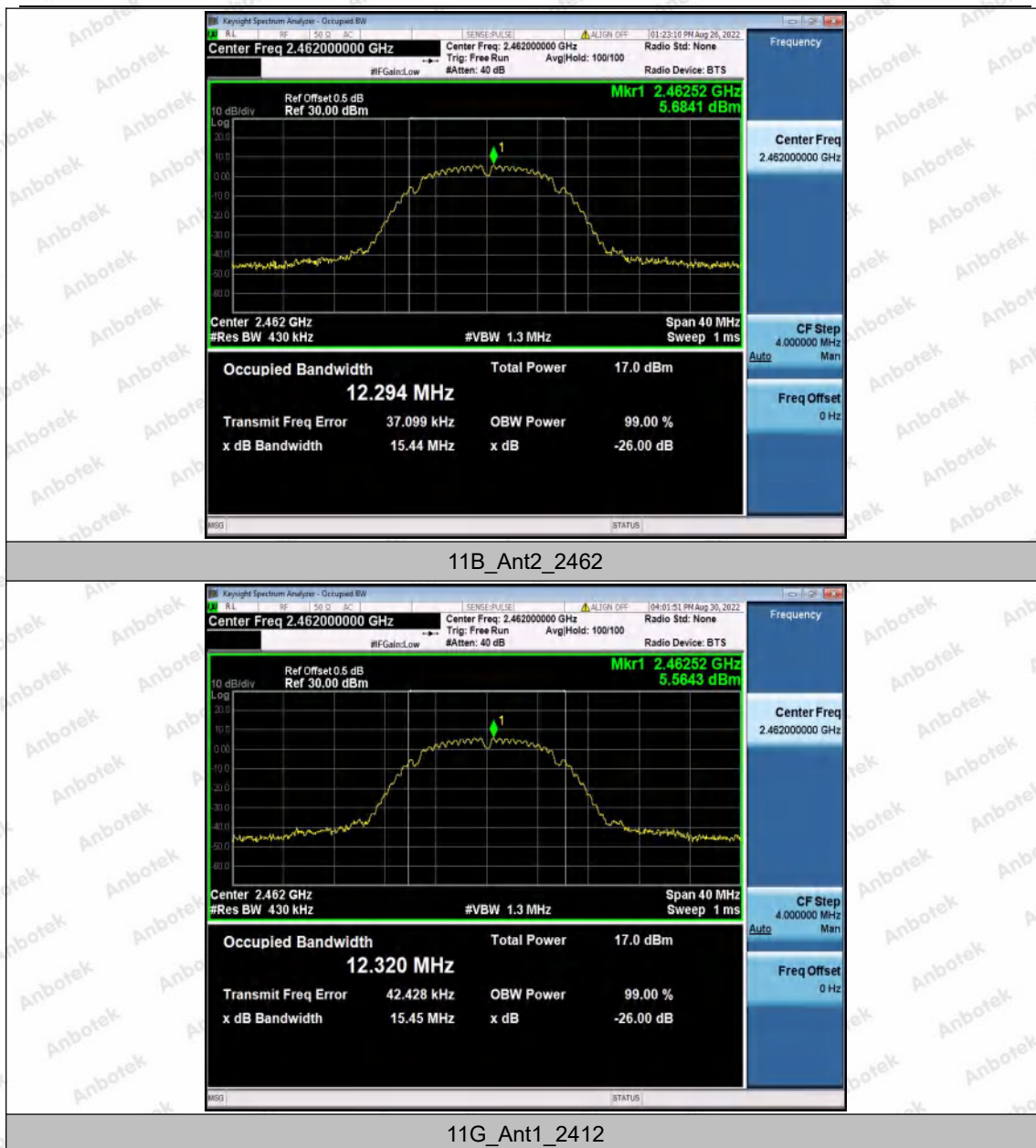


11B_Ant2_2437



11B_Ant1_2462



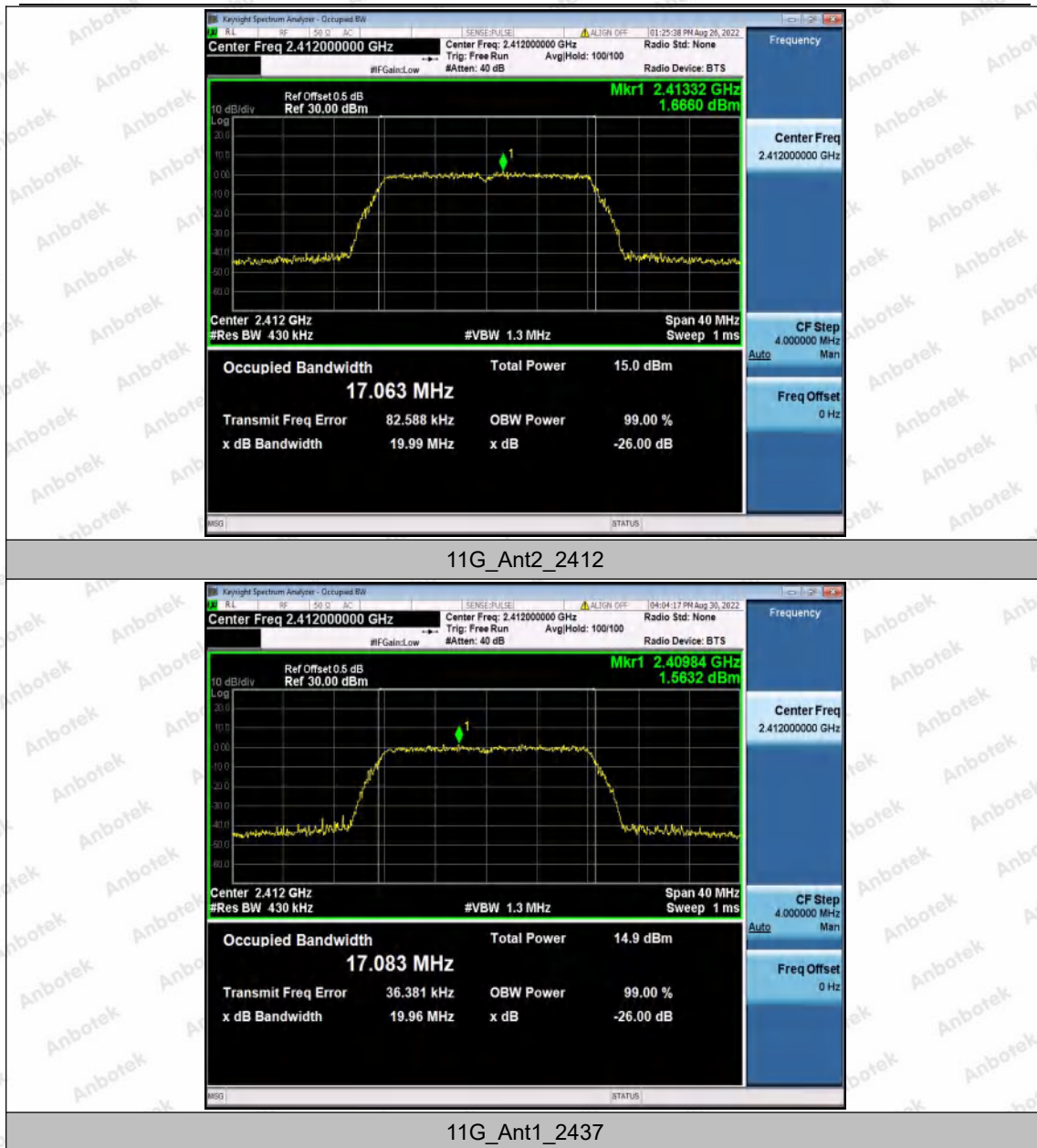
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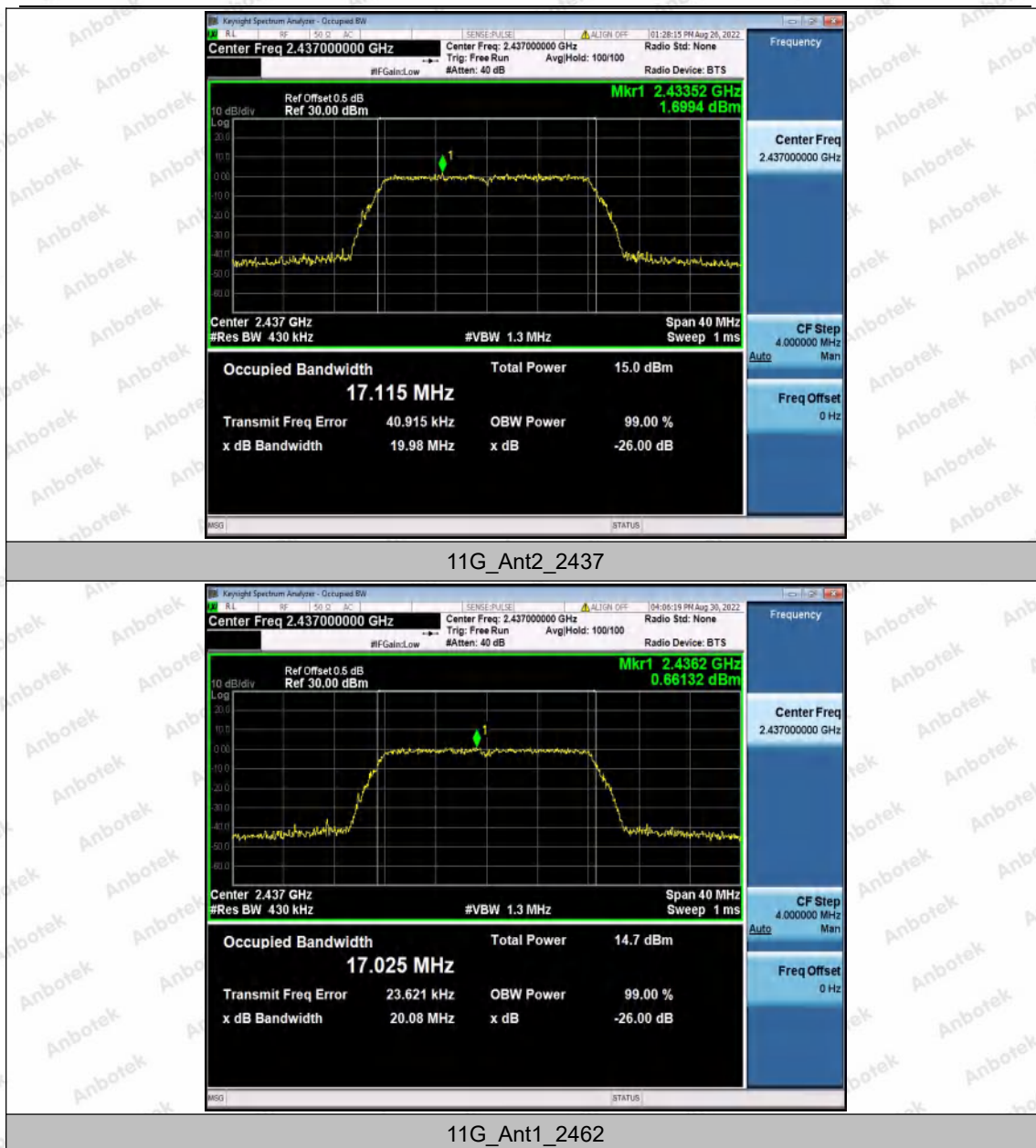
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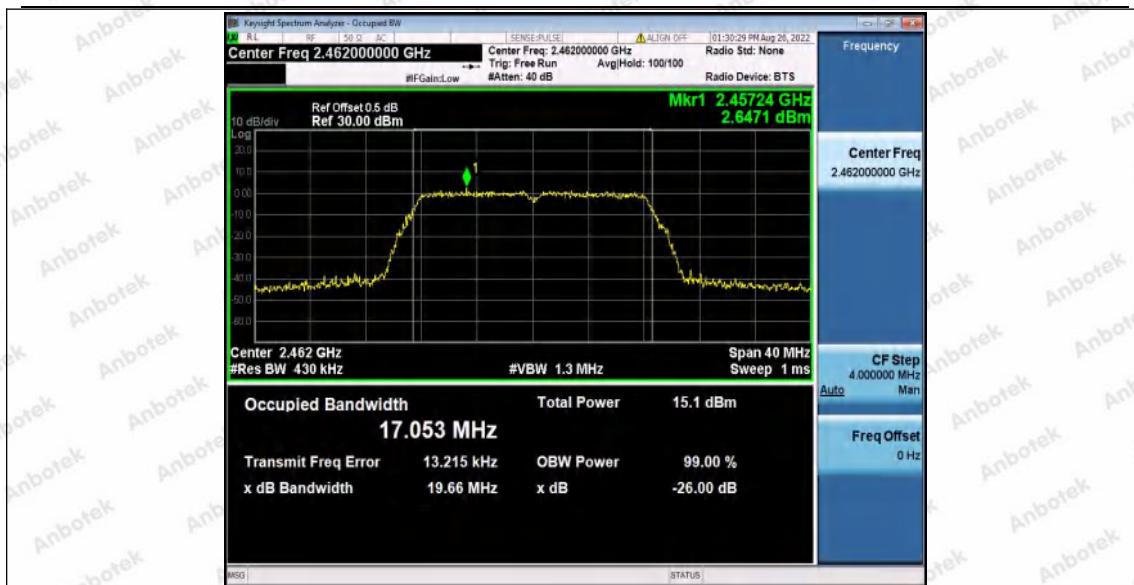
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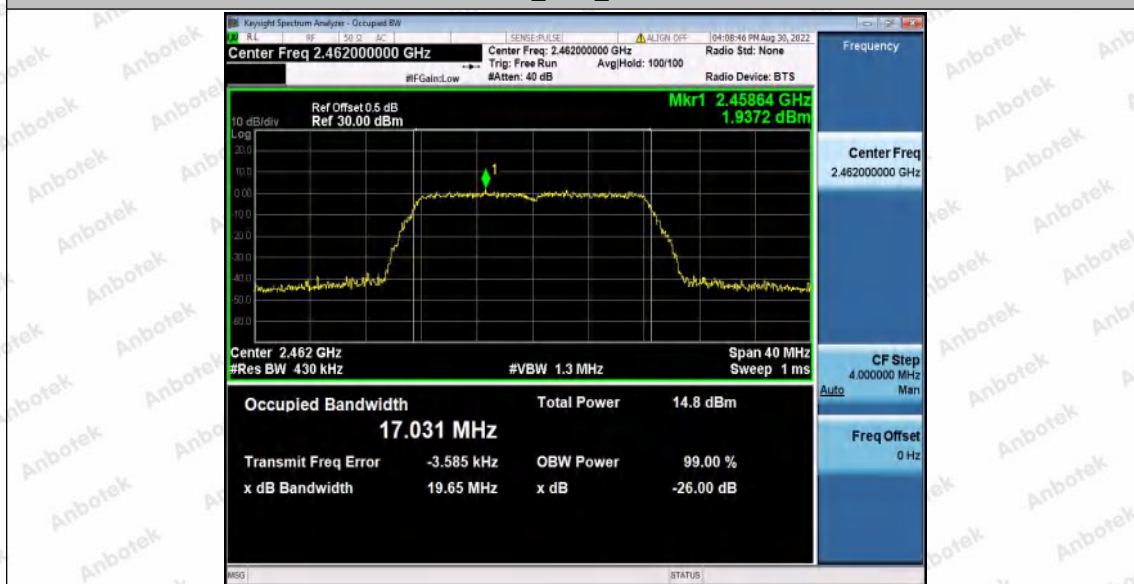


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11G_Ant2_2462



11N20SISO_Ant1_2412

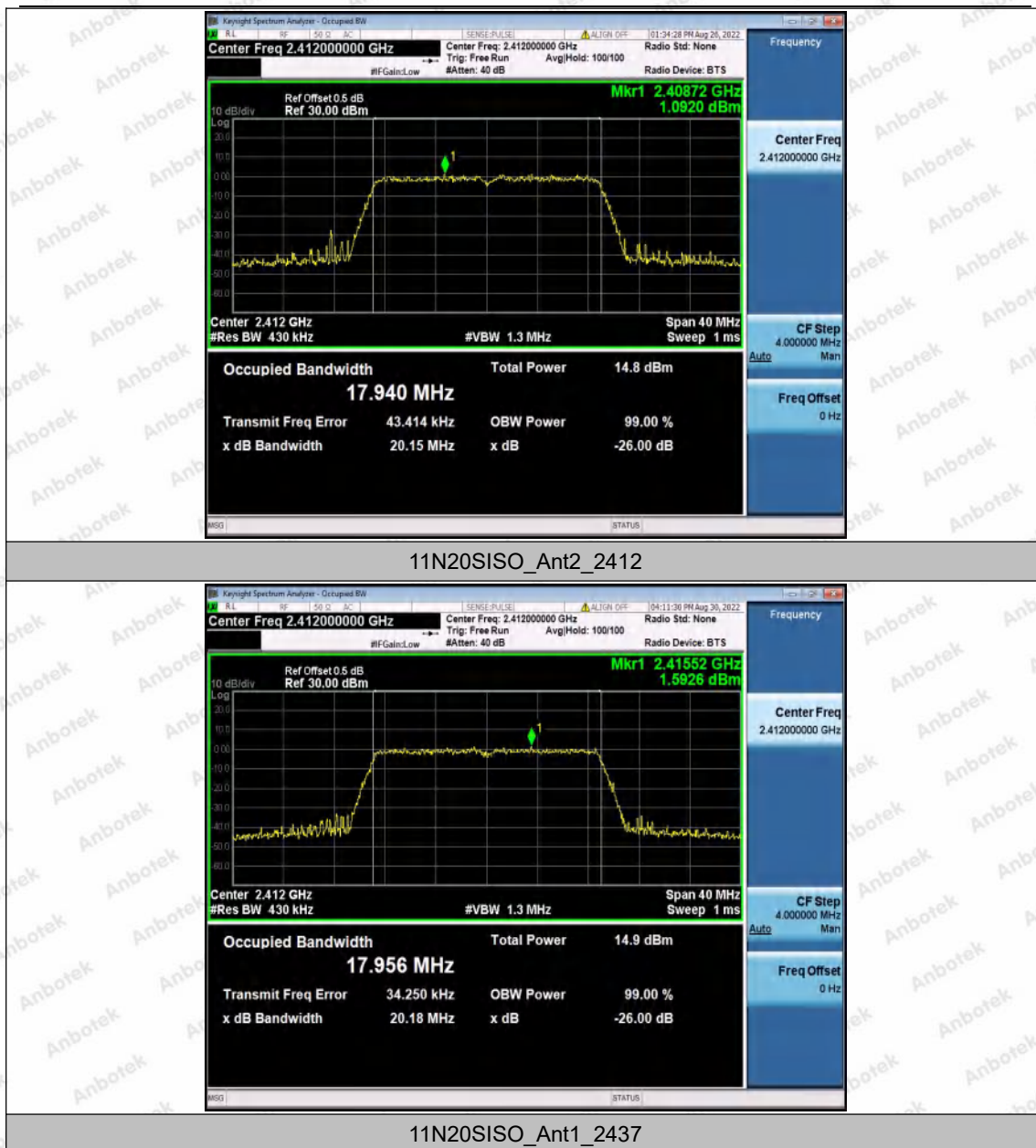
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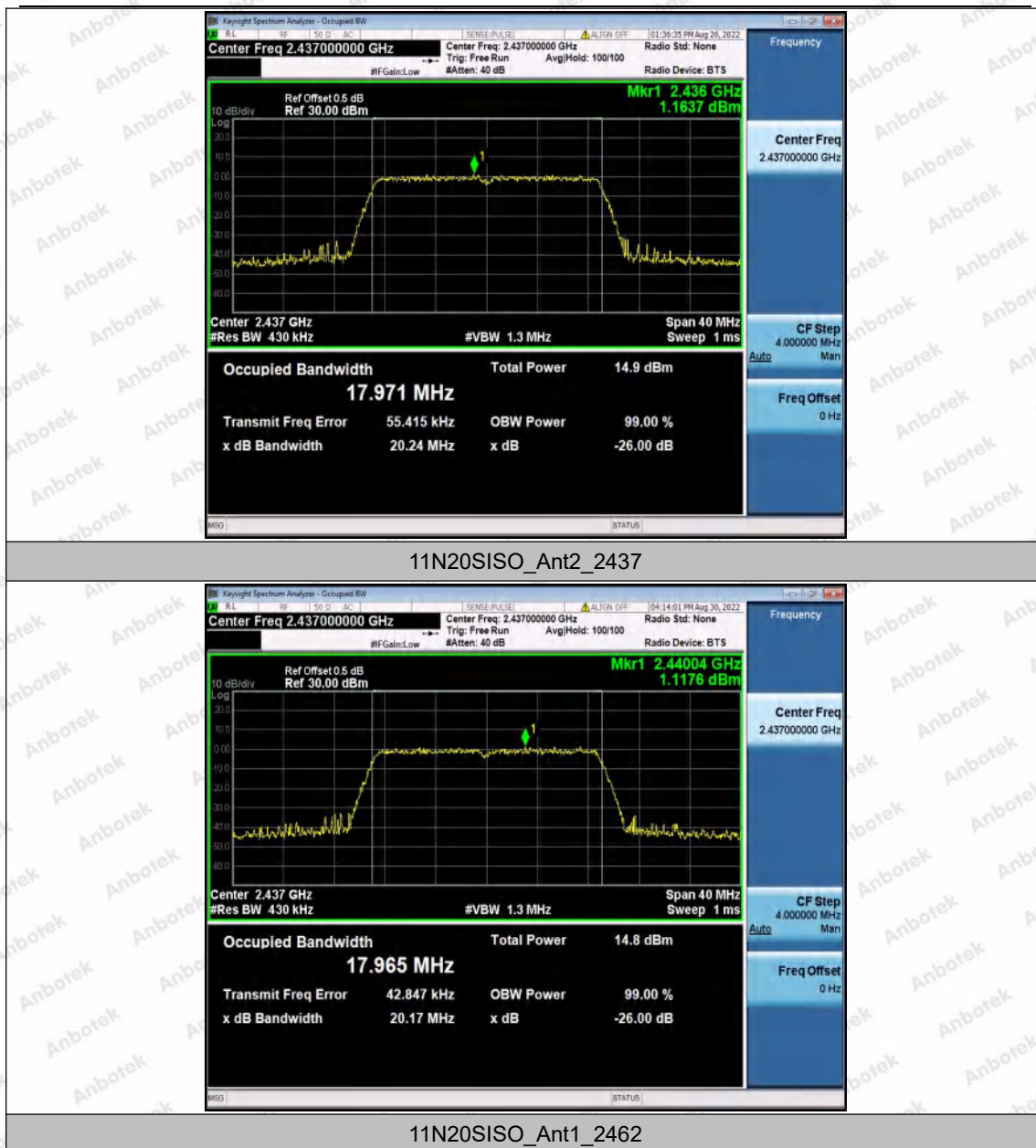
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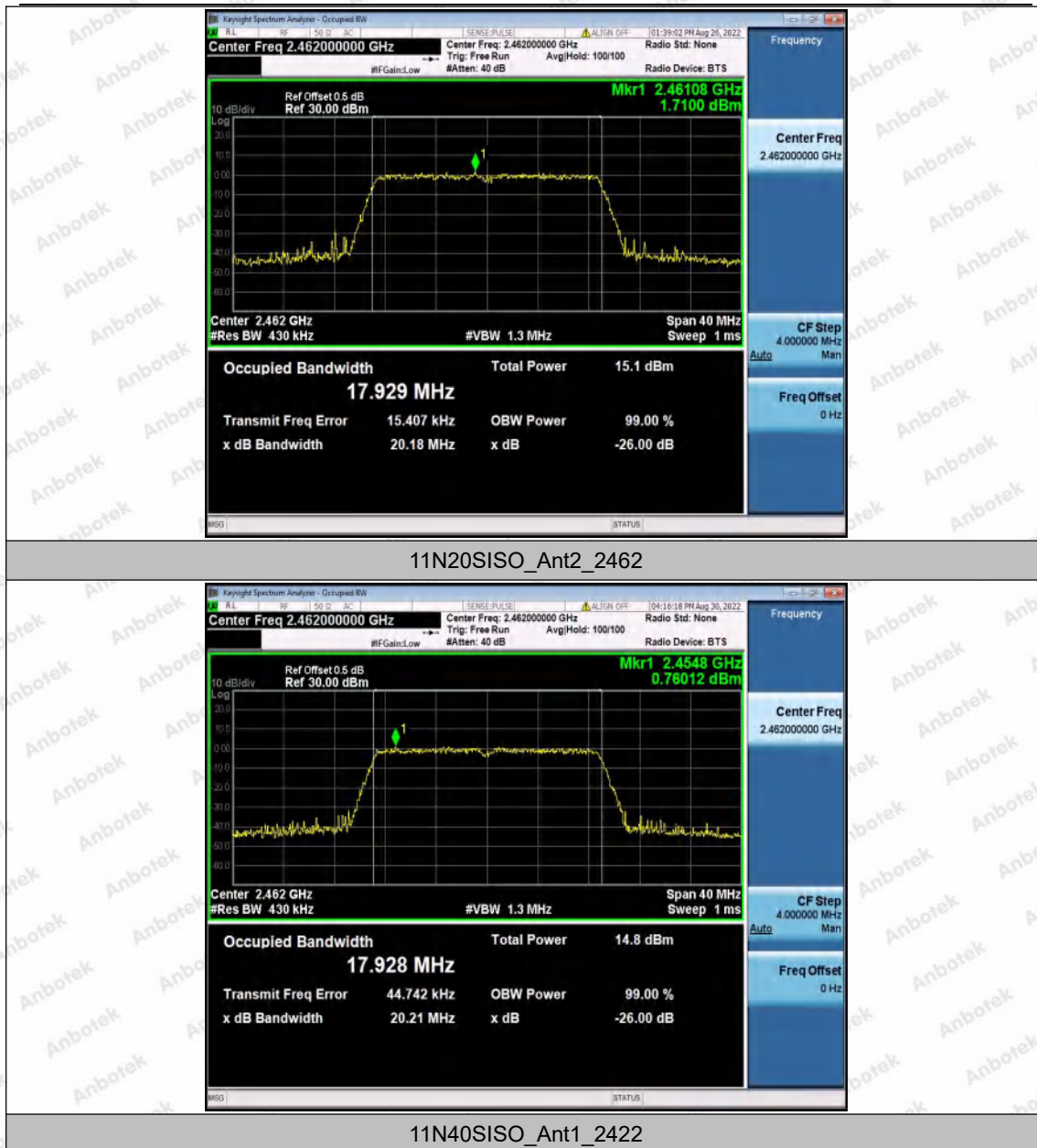
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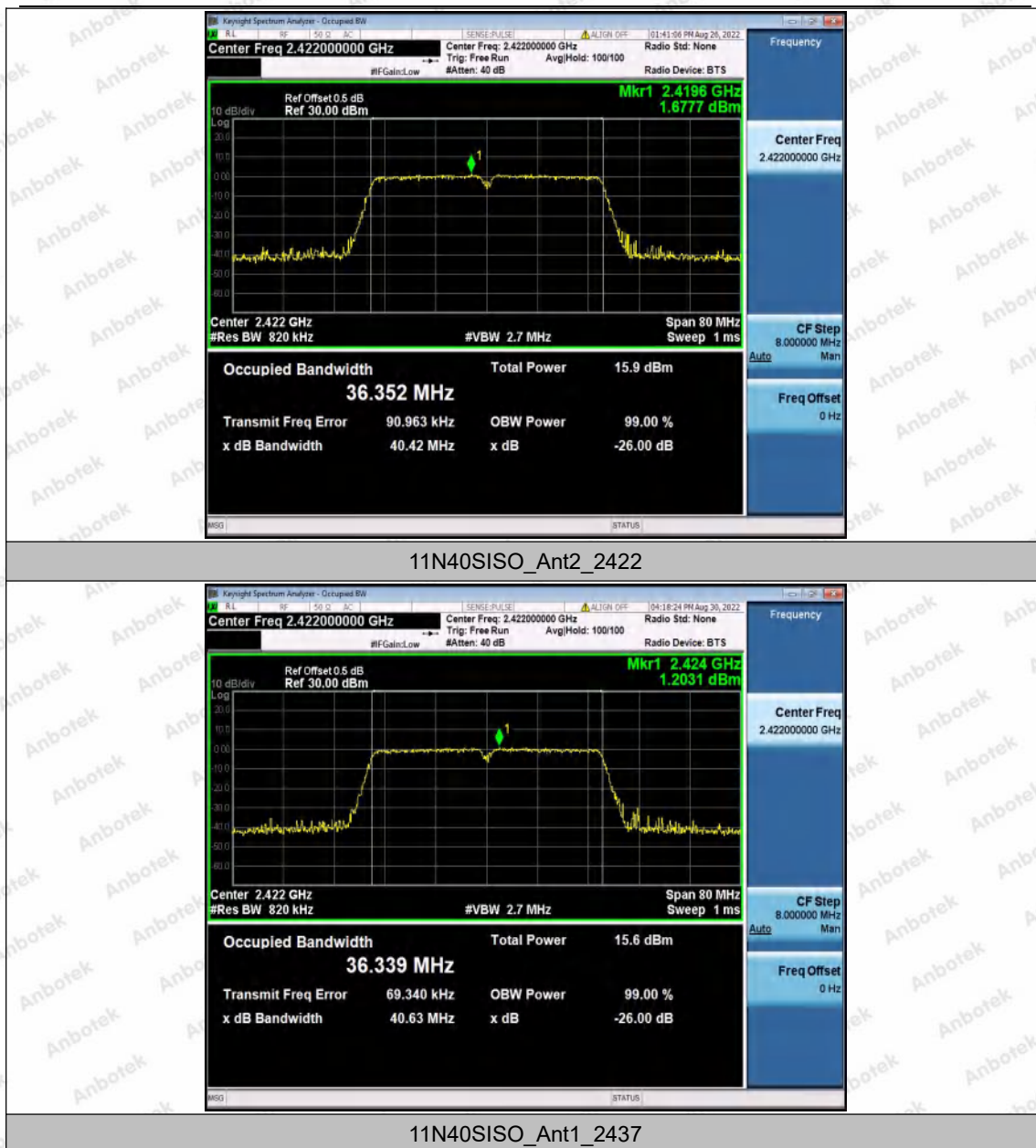
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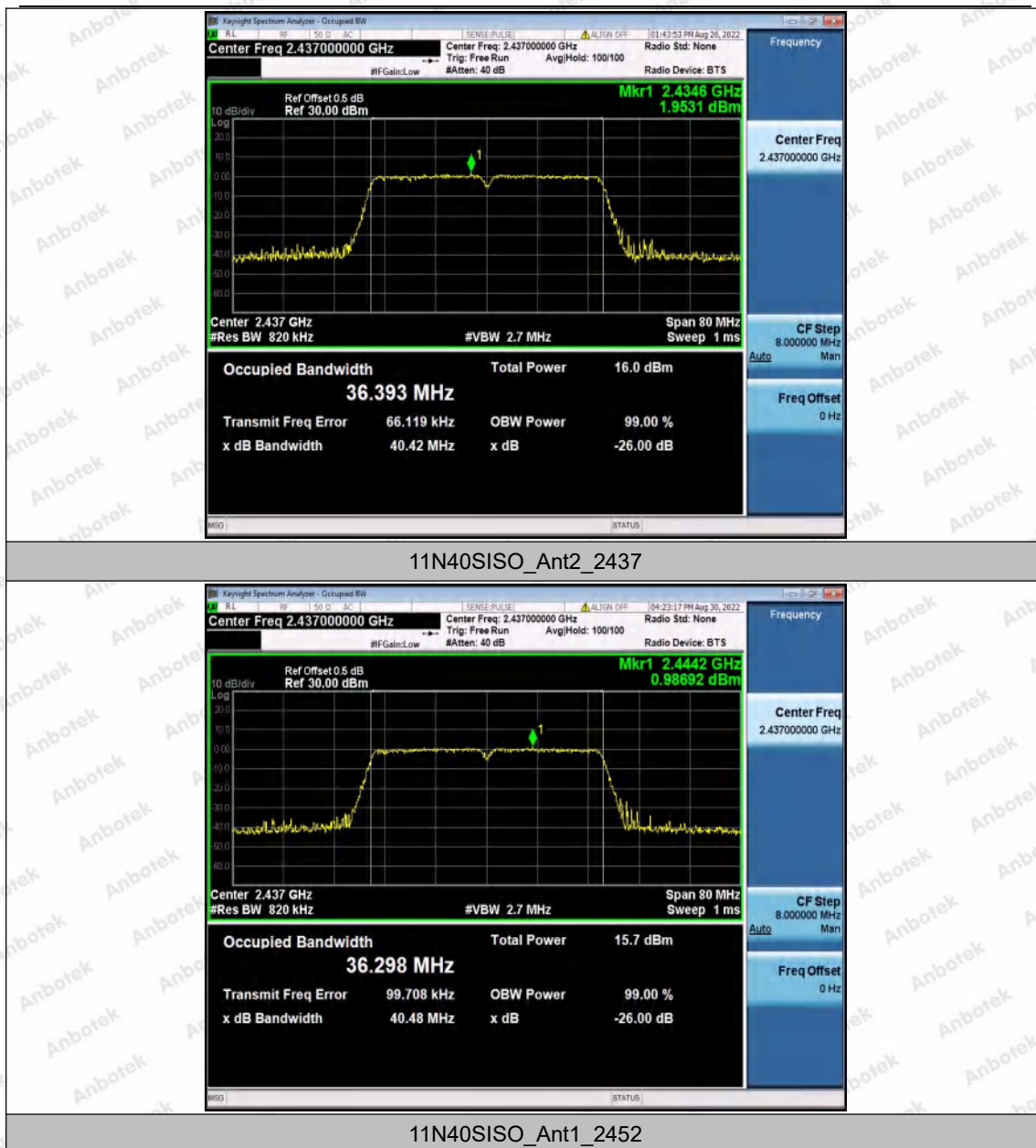
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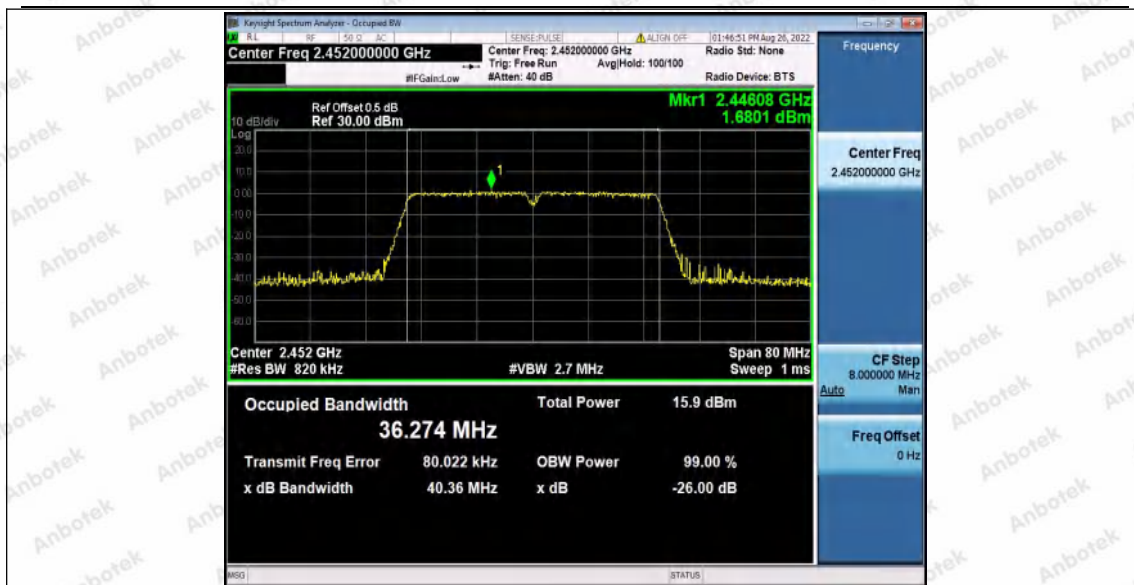
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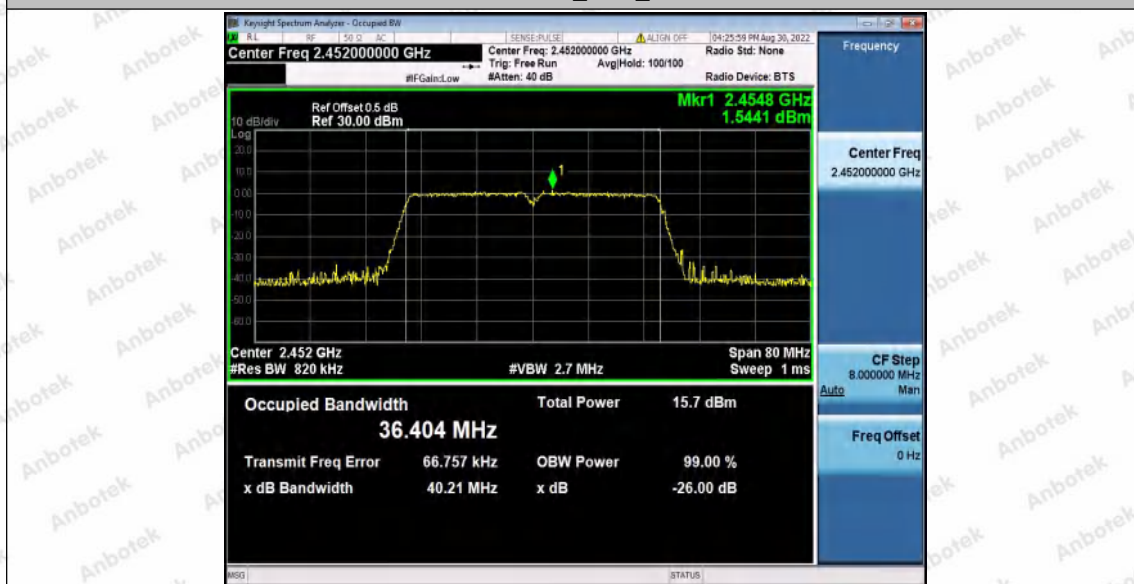


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11N40SISO_Ant2_2452



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.38	≤30.00	PASS
	Ant2	2412	16.40	≤30.00	PASS
	Ant1	2437	16.40	≤30.00	PASS
	Ant2	2437	16.05	≤30.00	PASS
	Ant1	2462	16.64	≤30.00	PASS
	Ant2	2462	16.61	≤30.00	PASS
11G	Ant1	2412	16.05	≤30.00	PASS
	Ant2	2412	15.89	≤30.00	PASS
	Ant1	2437	16.05	≤30.00	PASS
	Ant2	2437	15.78	≤30.00	PASS
	Ant1	2462	16.16	≤30.00	PASS
	Ant2	2462	15.74	≤30.00	PASS
11N20SISO	Ant1	2412	16.01	≤30.00	PASS
	Ant2	2412	15.89	≤30.00	PASS
	Ant1	2437	16.15	≤30.00	PASS
	Ant2	2437	15.91	≤30.00	PASS
	Ant1	2462	16.22	≤30.00	PASS
	Ant2	2462	16.00	≤30.00	PASS
11N40SISO	Ant1	2422	15.93	≤30.00	PASS
	Ant2	2422	15.84	≤30.00	PASS
	Ant1	2437	16.17	≤30.00	PASS
	Ant2	2437	16.01	≤30.00	PASS
	Ant1	2452	16.18	≤30.00	PASS
	Ant2	2452	15.95	≤30.00	PASS

MIMO:

Test Condition	TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
NTNV	11N20MIMO	2412	18.961	≤29.99	PASS
		2437	19.042	≤29.99	PASS
		2462	19.122	≤29.99	PASS
	11N40MIMO	2422	18.896	≤29.99	PASS
		2437	19.101	≤29.99	PASS
		2452	19.077	≤29.99	PASS



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.93	≤8.00	PASS
	Ant2	2412	-7.54	≤8.00	PASS
	Ant1	2437	-8.83	≤8.00	PASS
	Ant2	2437	-10.07	≤8.00	PASS
	Ant1	2462	-9.05	≤8.00	PASS
	Ant2	2462	-7.31	≤8.00	PASS
11G	Ant1	2412	-16.11	≤8.00	PASS
	Ant2	2412	-16.1	≤8.00	PASS
	Ant1	2437	-16.31	≤8.00	PASS
	Ant2	2437	-16.15	≤8.00	PASS
	Ant1	2462	-15.38	≤8.00	PASS
	Ant2	2462	-16.05	≤8.00	PASS
11N20SISO	Ant1	2412	-16.38	≤8.00	PASS
	Ant2	2412	-16.43	≤8.00	PASS
	Ant1	2437	-15.74	≤8.00	PASS
	Ant2	2437	-16.78	≤8.00	PASS
	Ant1	2462	-15.21	≤8.00	PASS
	Ant2	2462	-14.7	≤8.00	PASS
11N40SISO	Ant1	2422	-19.28	≤8.00	PASS
	Ant2	2422	-19.57	≤8.00	PASS
	Ant1	2437	-19.3	≤8.00	PASS
	Ant2	2437	-19.51	≤8.00	PASS
	Ant1	2452	-17.7	≤8.00	PASS
	Ant2	2452	-19.84	≤8.00	PASS

MIMO:

Test Condition	TestMode	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
NTNV	11N20MIMO	2412	-13.395	≤7.99	PASS
		2437	-13.219	≤7.99	PASS
		2462	-11.937	≤7.99	PASS
	11N40MIMO	2422	-16.412	≤7.99	PASS
		2437	-16.393	≤7.99	PASS
		2452	-15.629	≤7.99	PASS



Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462





11B_Ant2_2462



11G_Ant1_2412

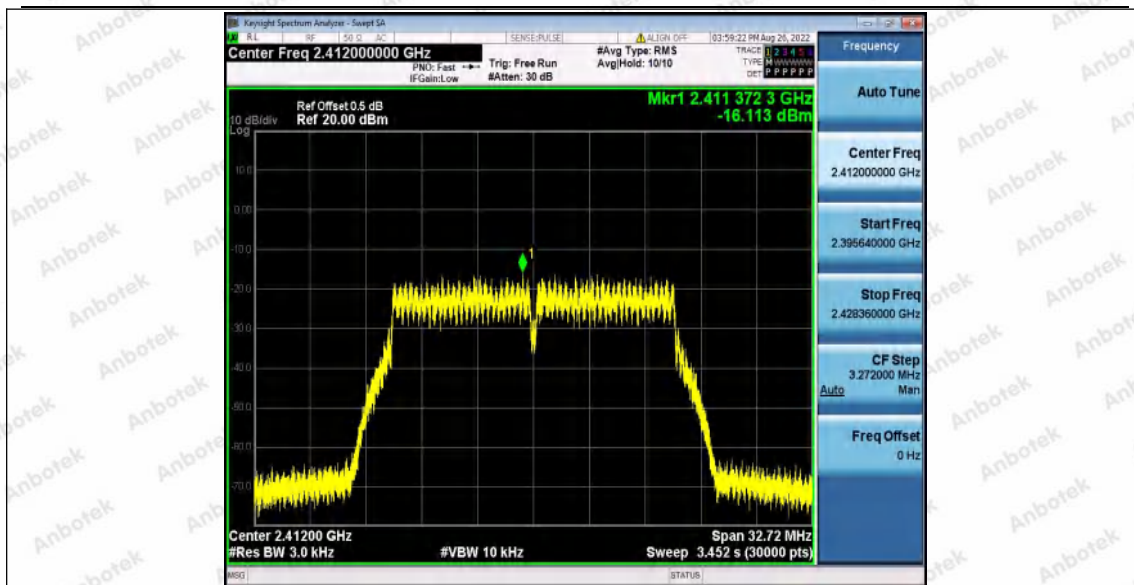
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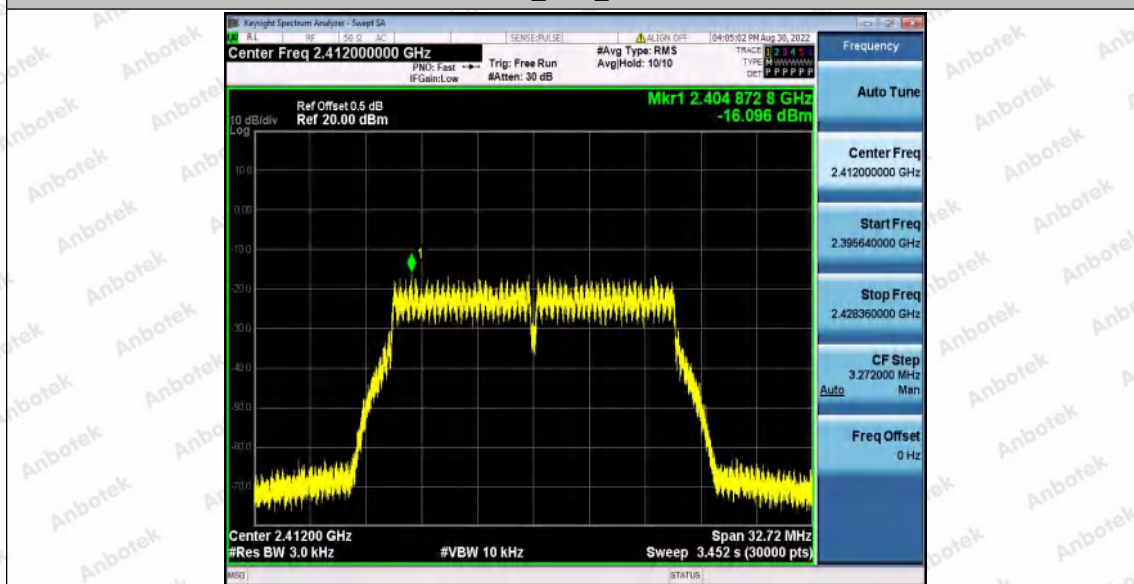


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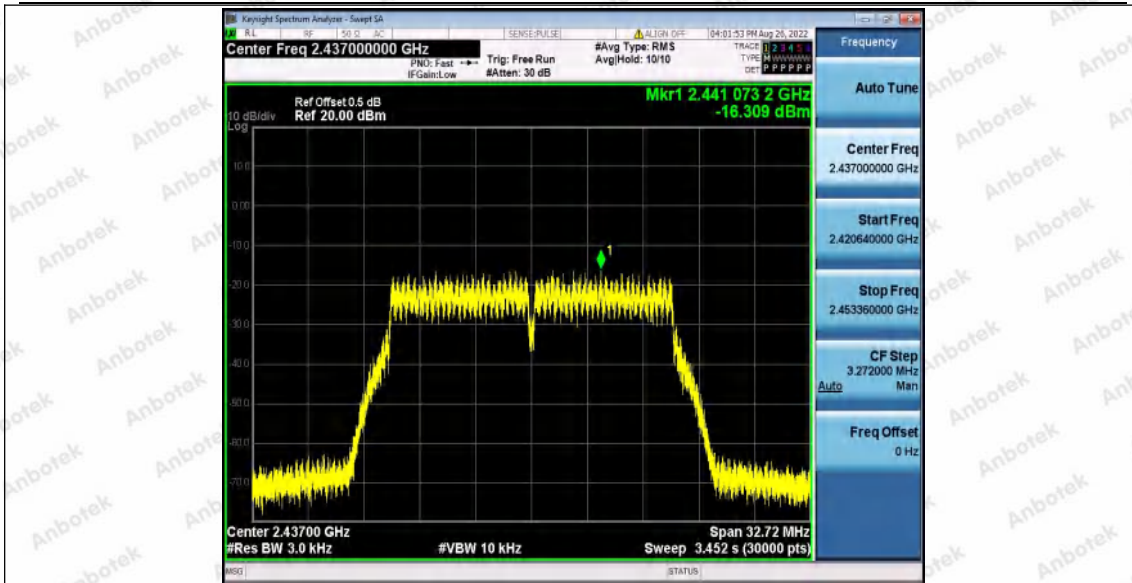


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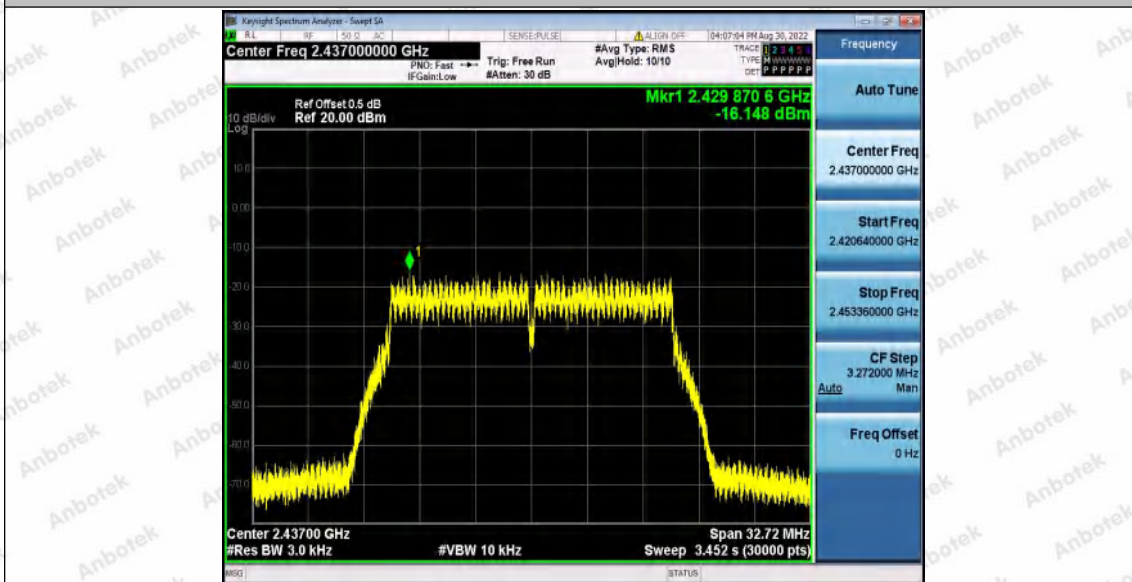


11G_Ant1_2437





11G_Ant2_2437



11G_Ant1_2462

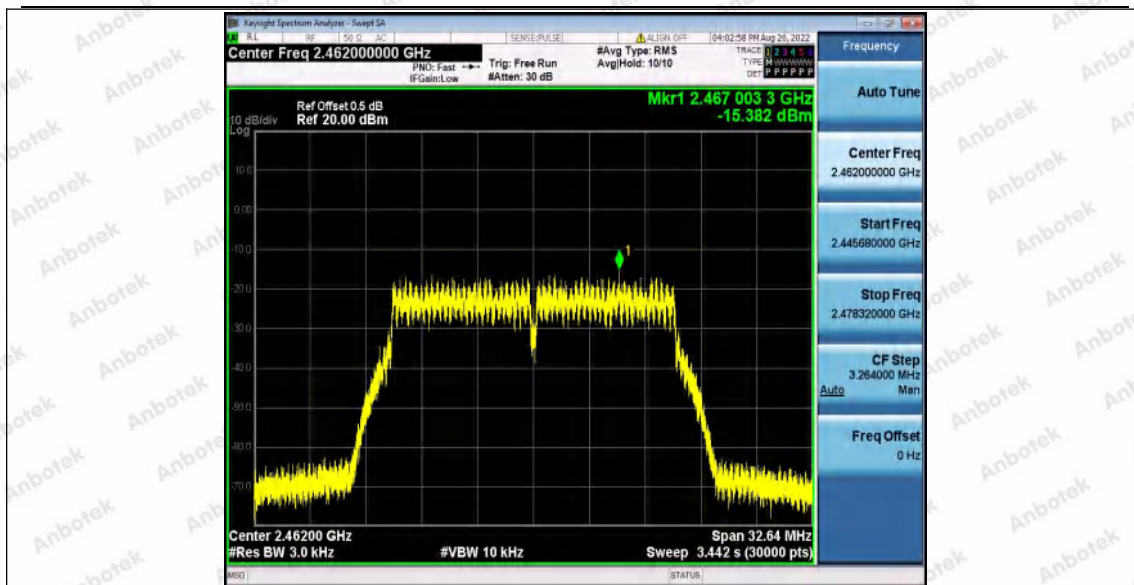
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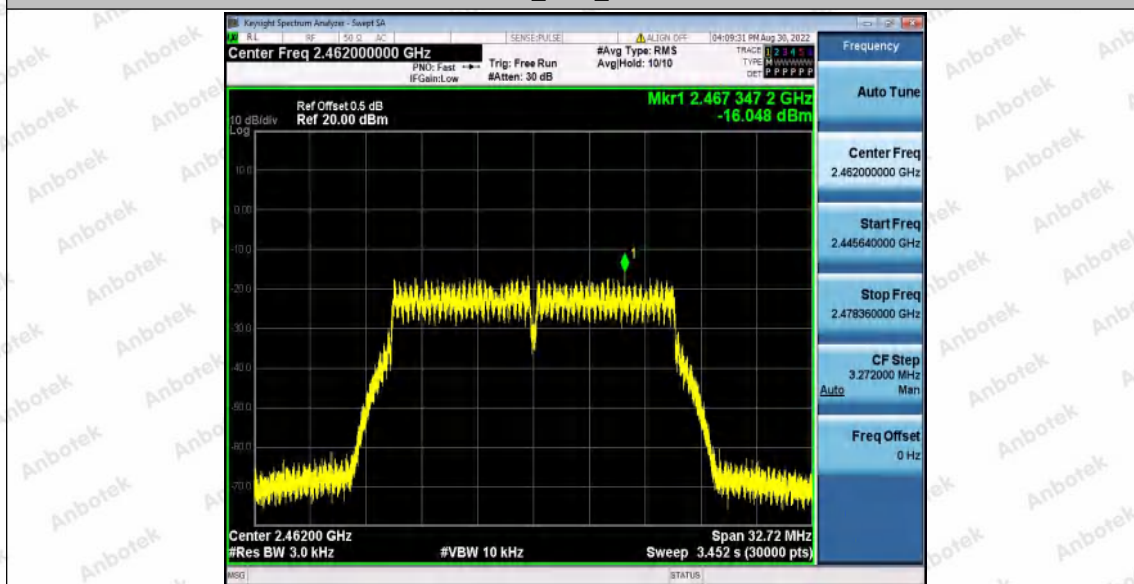


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11G_Ant2_2462



11N20SISO_Ant1_2412

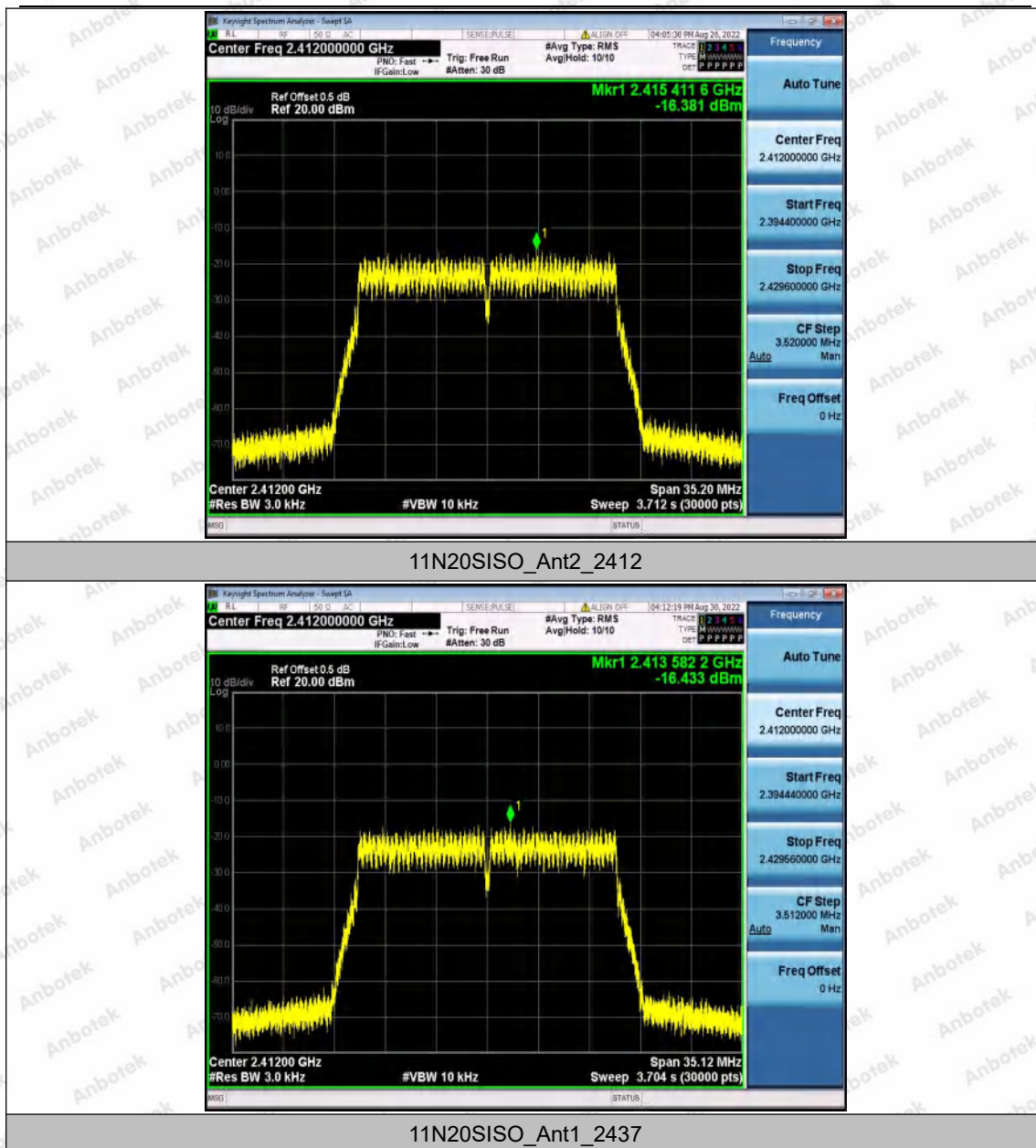
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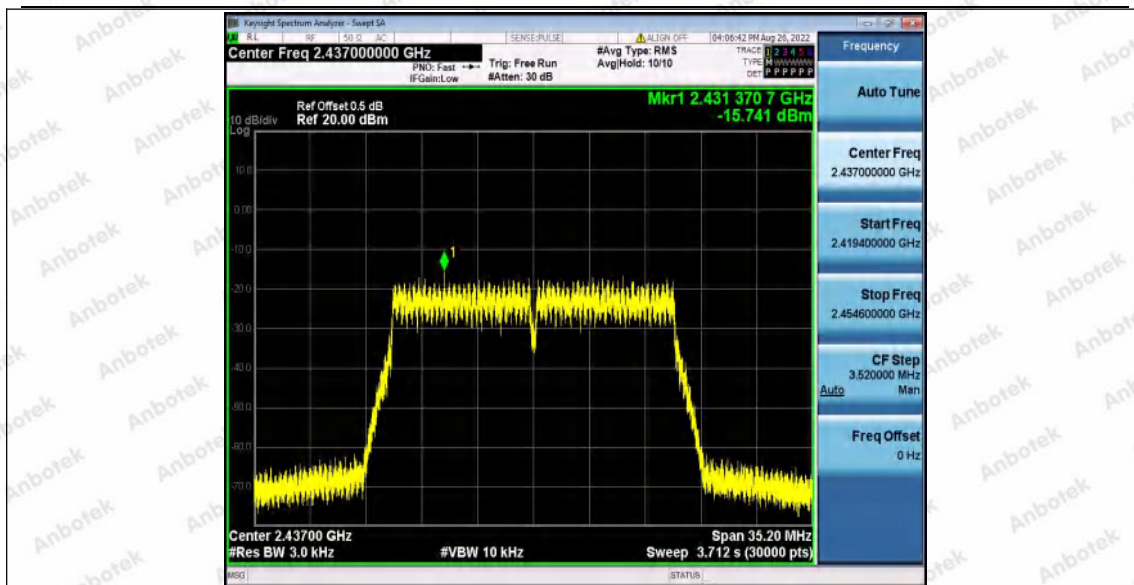
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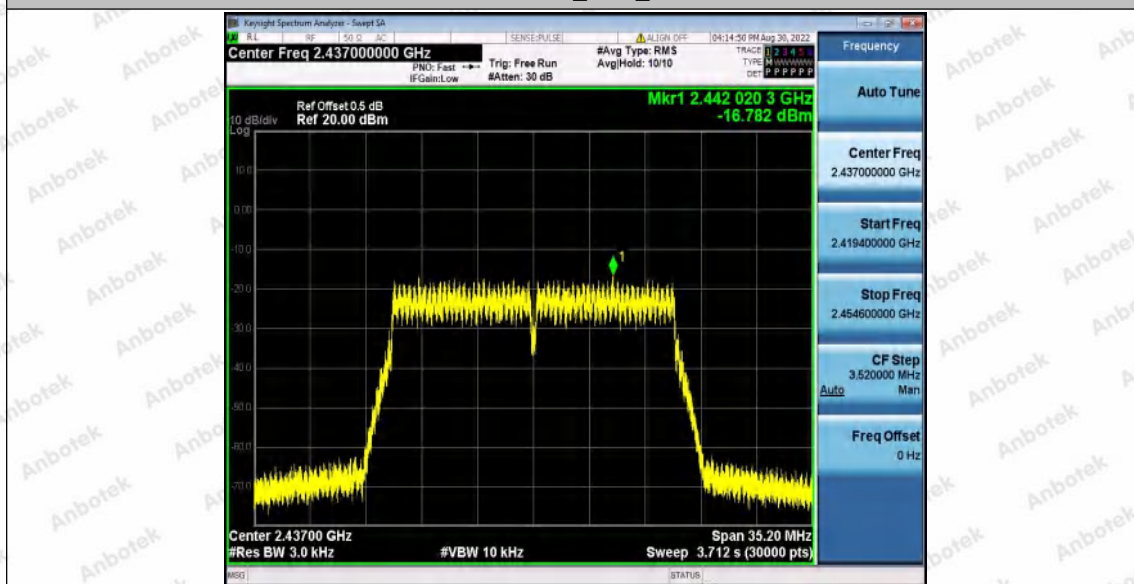


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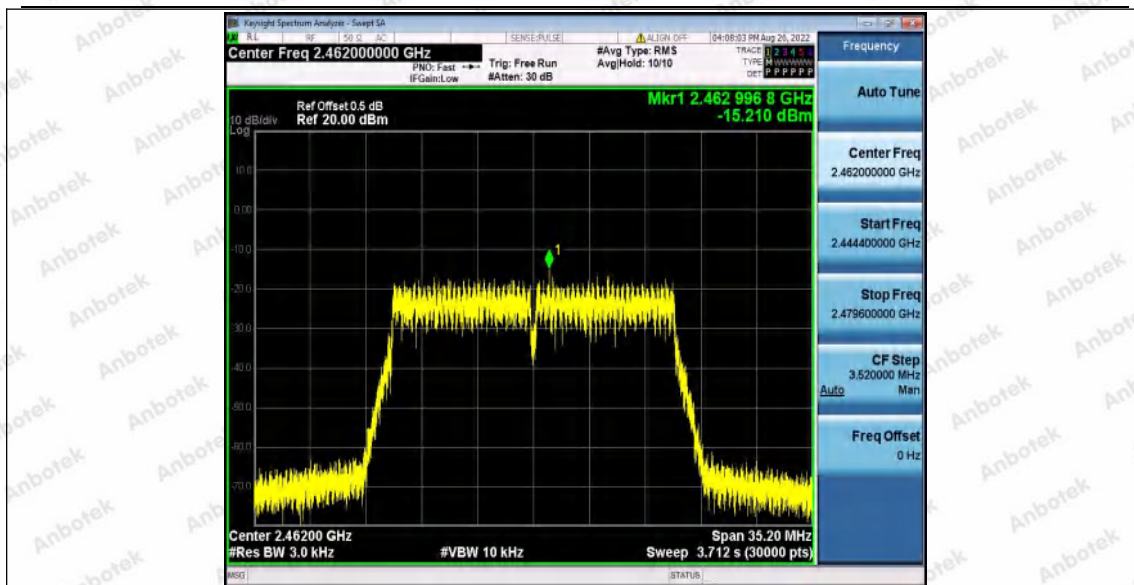


11N20SISO_Ant2_2437

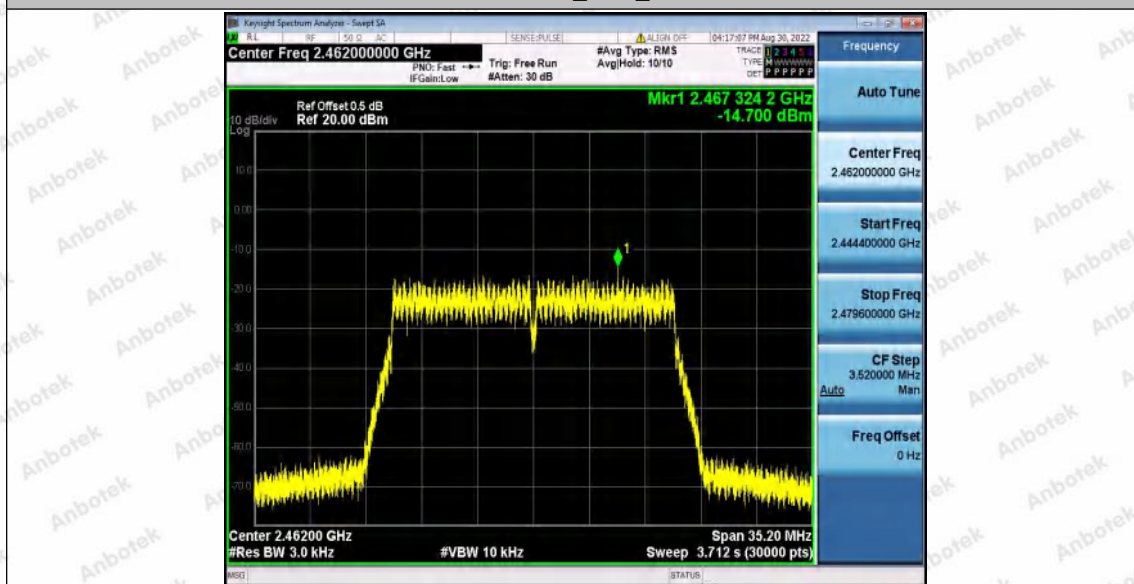


11N20SISO_Ant1_2462



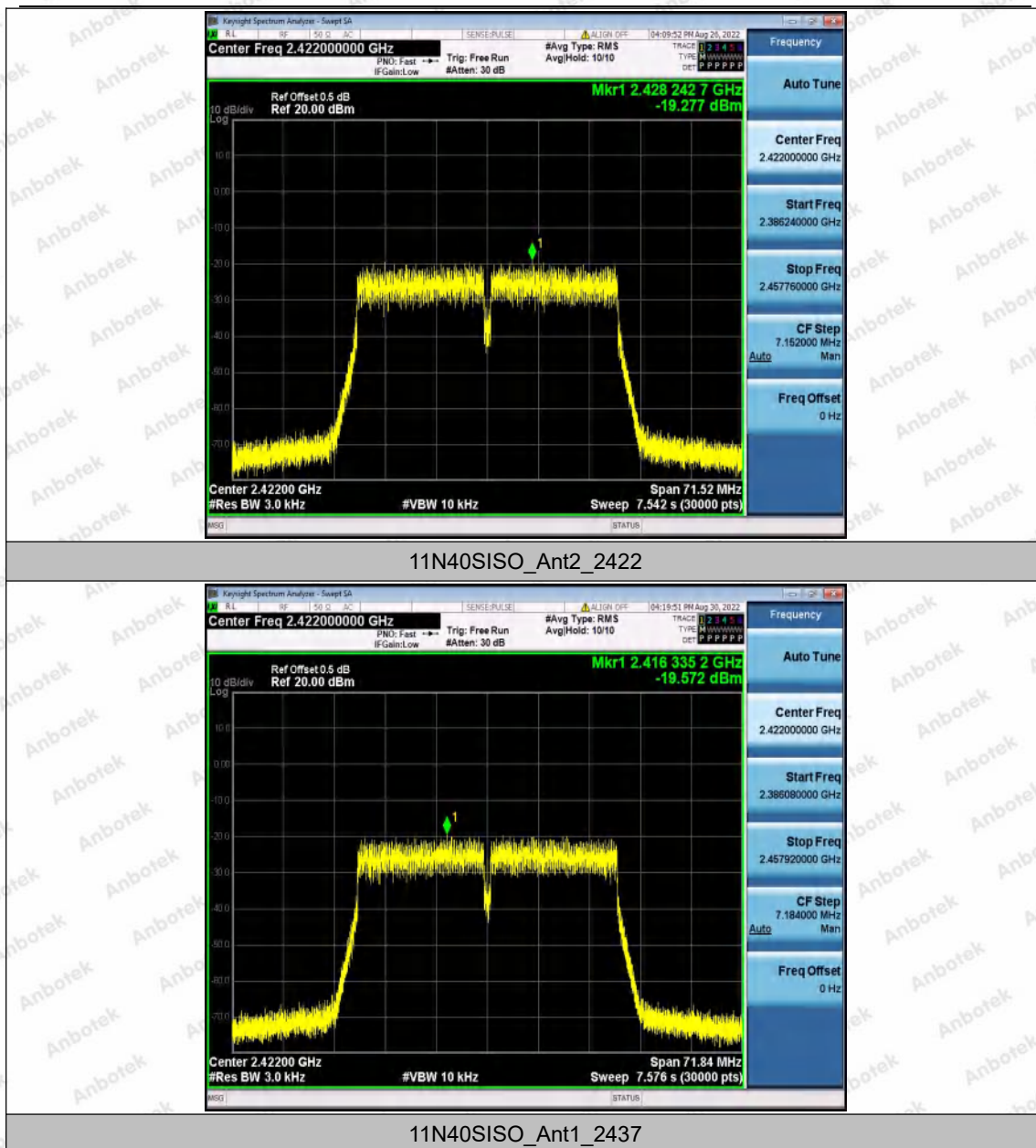


11N20SISO_Ant2_2462



11N40SISO_Ant1_2422





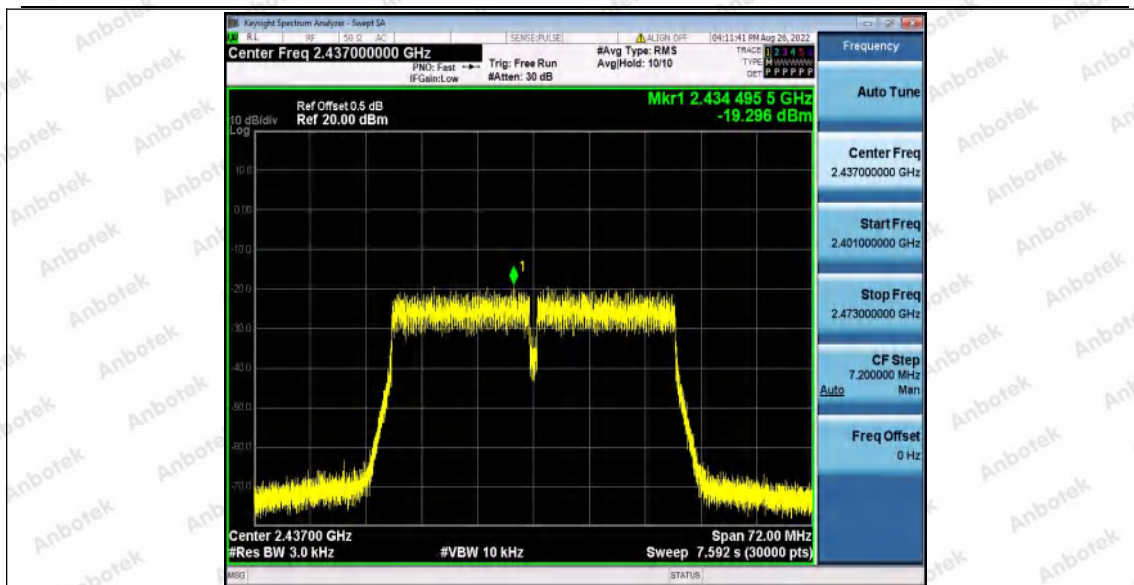
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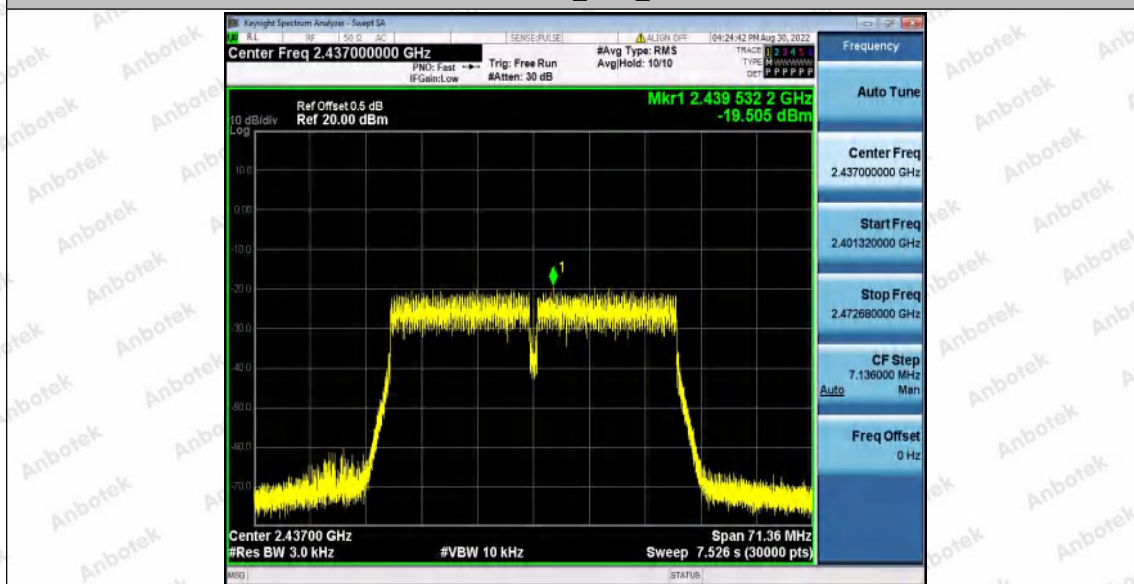


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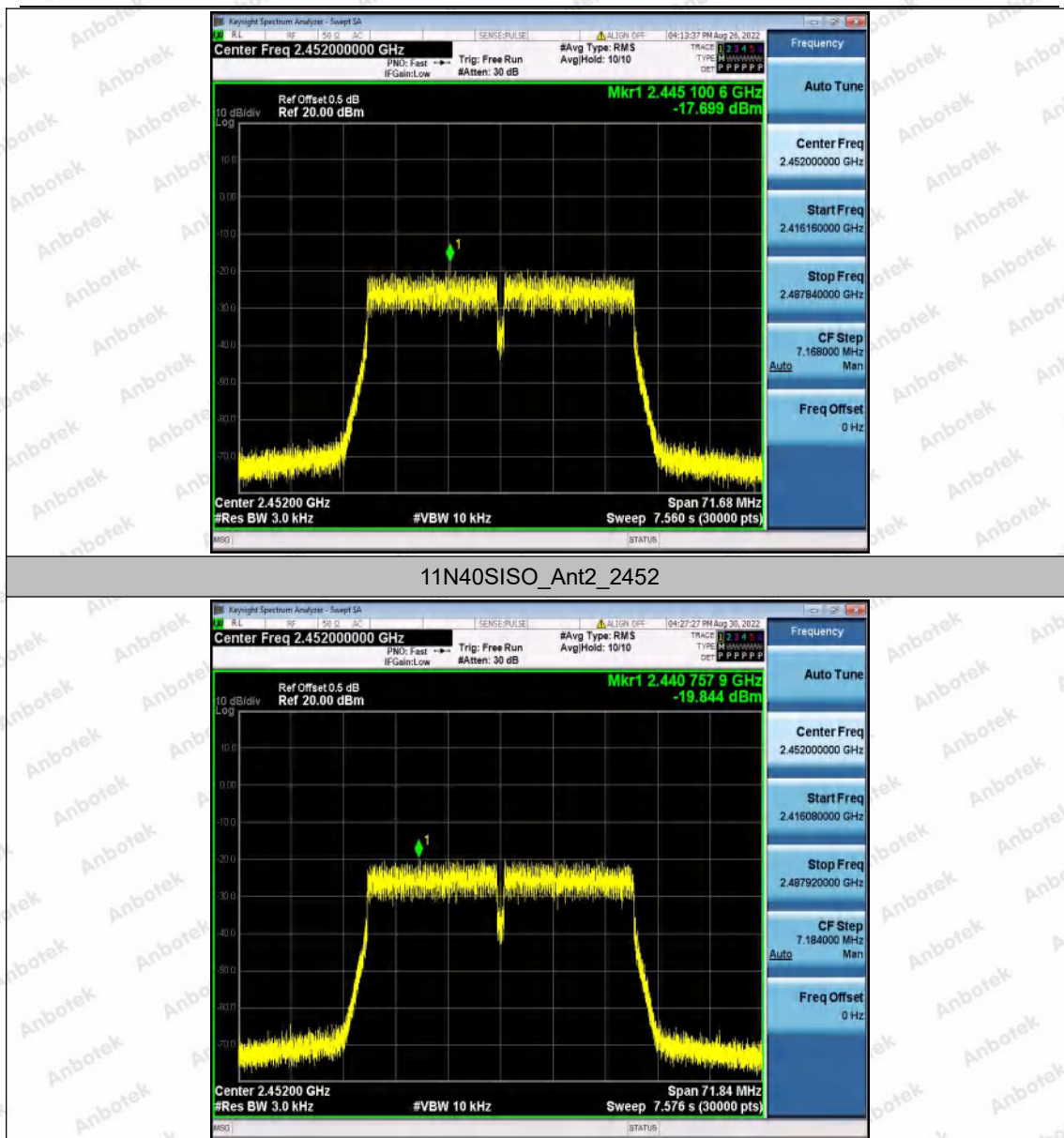


11N40SISO_Ant2_2437



11N40SISO_Ant1_2452





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Appendix E: Band edge measurements

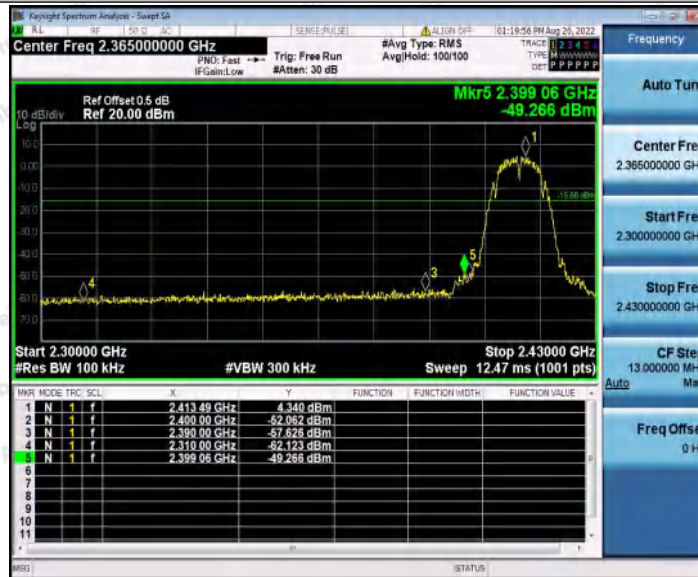
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.34	-49.27	≤-15.66	PASS
	Ant2	Low	2412	4.80	-48.74	≤-15.2	PASS
	Ant1	High	2462	5.24	-54.98	≤-14.76	PASS
	Ant2	High	2462	4.84	-54.36	≤-15.16	PASS
11G	Ant1	Low	2412	-2.64	-47.07	≤-22.64	PASS
	Ant2	Low	2412	-2.80	-47.06	≤-22.8	PASS
	Ant1	High	2462	-2.74	-53.85	≤-22.74	PASS
	Ant2	High	2462	-2.40	-54.37	≤-22.4	PASS
11N20SISO	Ant1	Low	2412	-2.51	-45.94	≤-22.51	PASS
	Ant2	Low	2412	-2.07	-45.46	≤-22.07	PASS
	Ant1	High	2462	-2.53	-52.51	≤-22.53	PASS
	Ant2	High	2462	-3.01	-54.19	≤-23.01	PASS
11N40SISO	Ant1	Low	2422	-5.46	-46.83	≤-25.46	PASS
	Ant2	Low	2422	-5.08	-45.73	≤-25.08	PASS
	Ant1	High	2452	-5.02	-51.52	≤-25.02	PASS
	Ant2	High	2452	-5.23	-52.84	≤-25.23	PASS

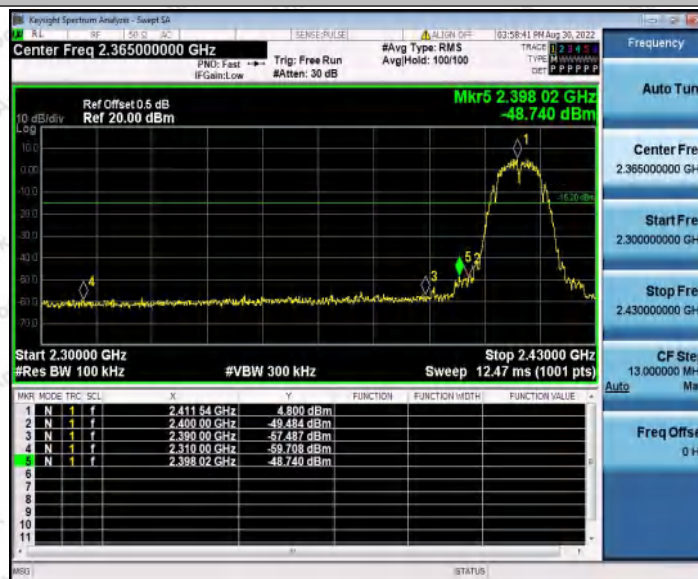


Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462

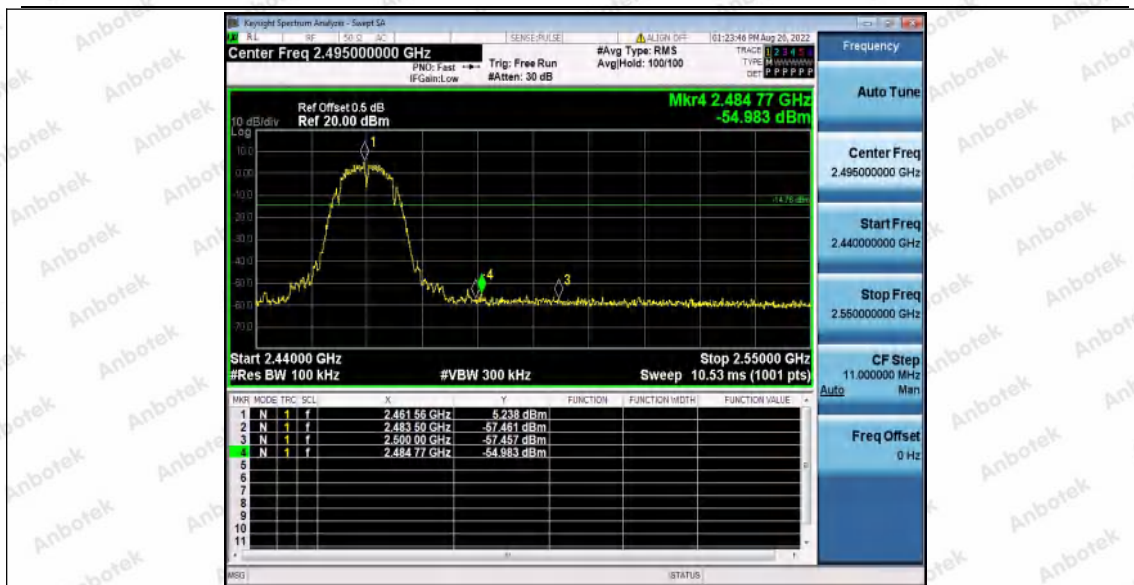
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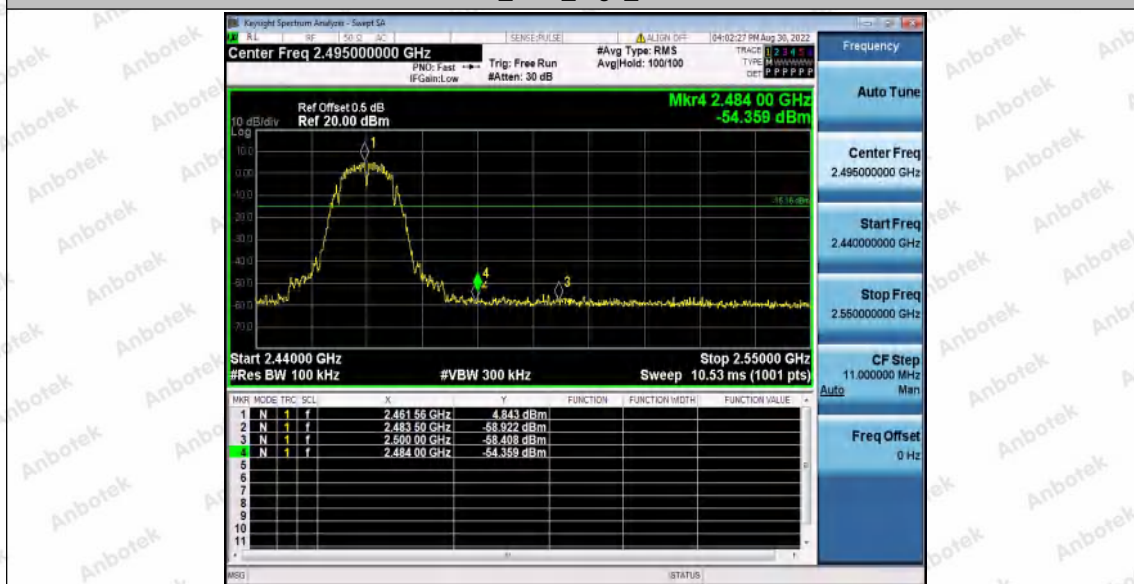


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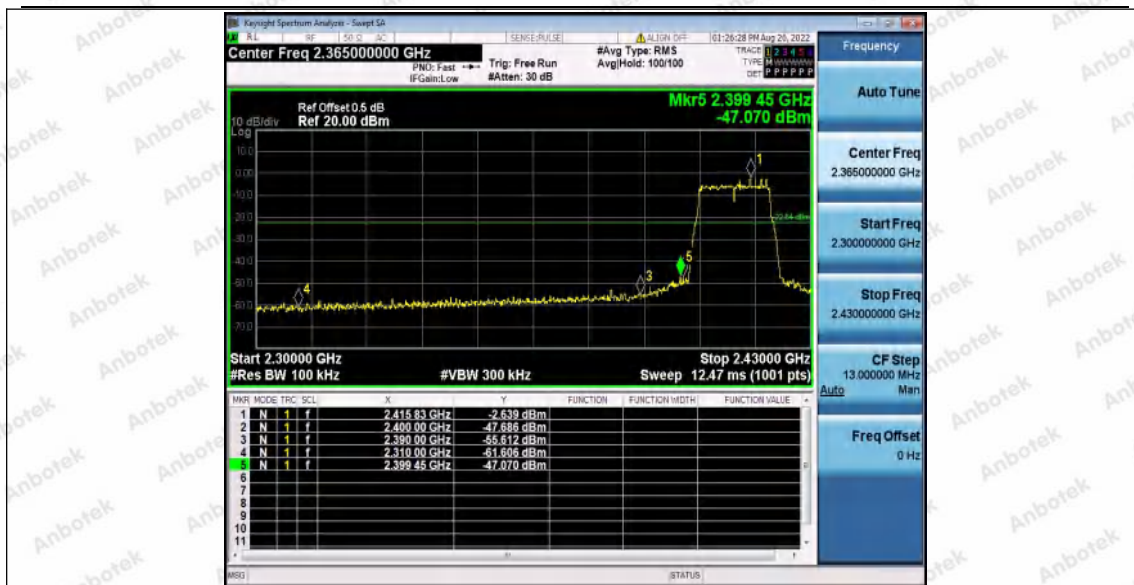


11B_Ant2_High_2462

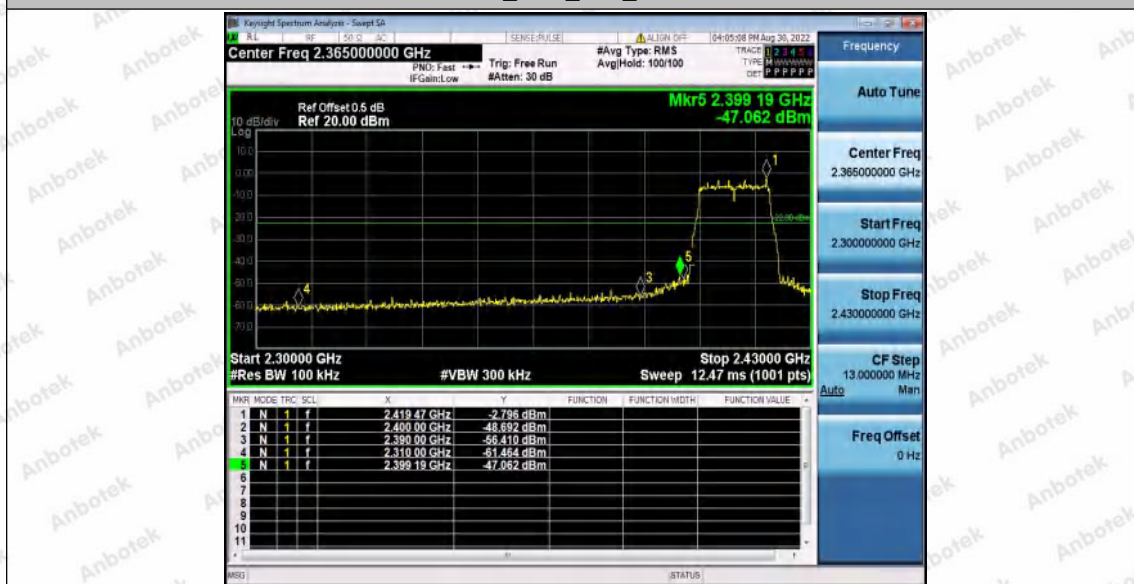


11G_Ant1_Low_2412



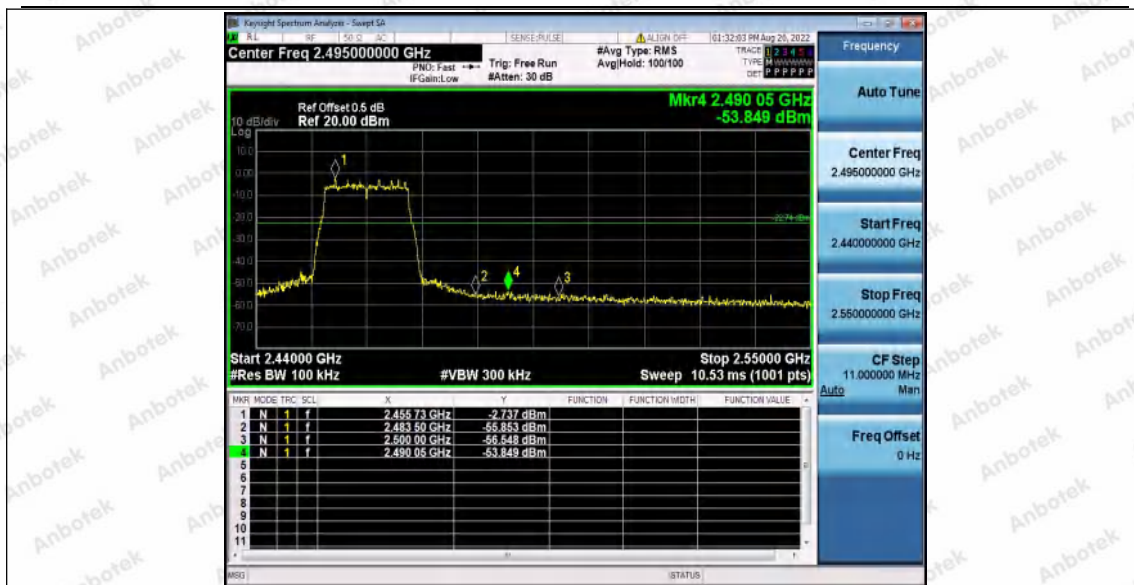


11G_Ant2_Low_2412



11G_Ant1_High_2462





11G_Ant2_High_2462

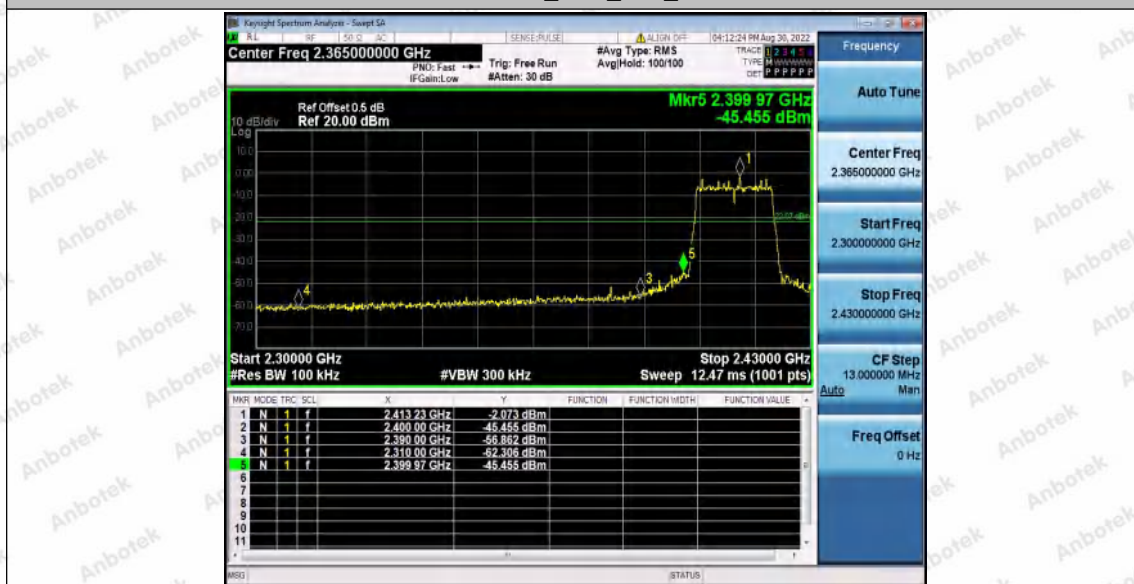


11N20SISO_Ant1_Low_2412





11N20SISO_Ant2_Low_2412



11N20SISO_Ant1_High_2462





11N20SISO_Ant2_High_2462



11N40SISO_Ant1_Low_2422



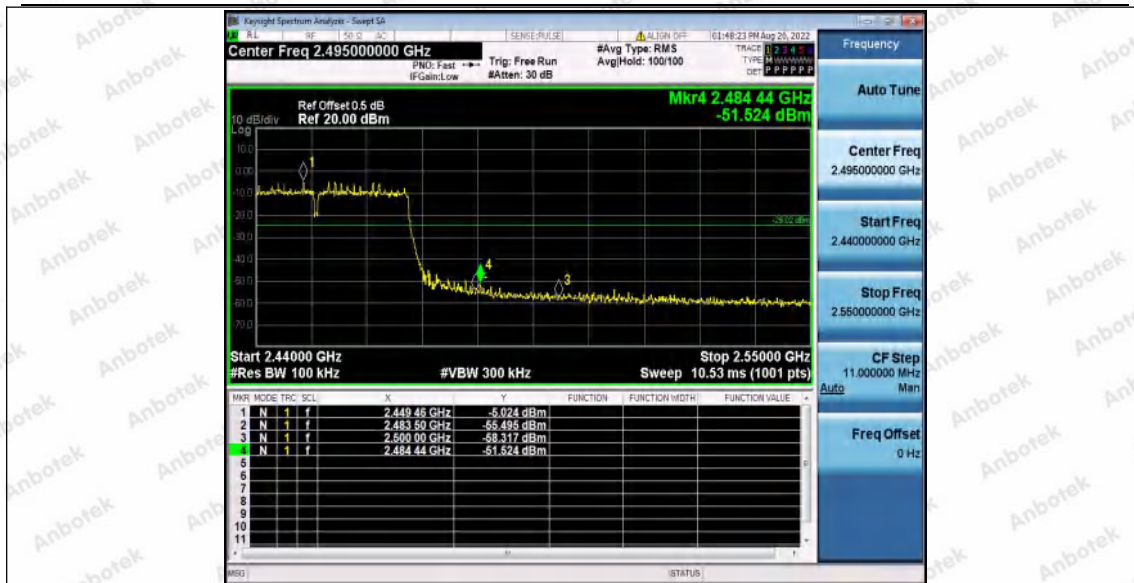


11N40SISO_Ant2_Low_2422

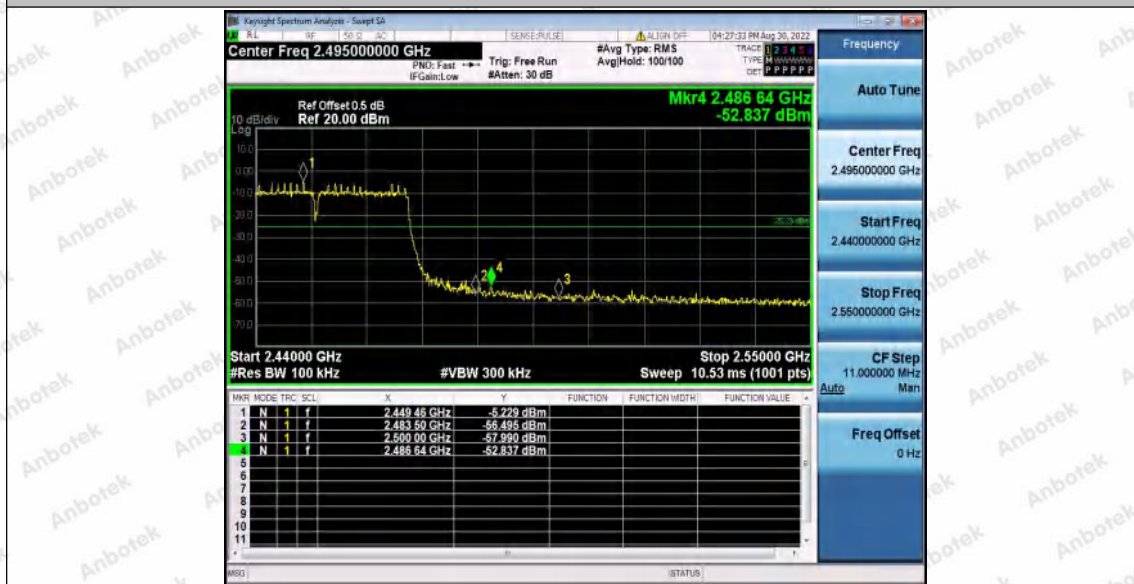


11N40SISO_Ant1_High_2452





11N40SISO_Ant2_High_2452



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.04	4.04	---	PASS
			30~1000	4.04	-69.71	≤-25.96	PASS
			1000~26500	4.04	-54.12	≤-25.96	PASS
	Ant2	2412	Reference	5.22	5.22	---	PASS
			30~1000	5.22	-69	≤-24.78	PASS
			1000~26500	5.22	-54.67	≤-24.78	PASS
	Ant1	2437	Reference	4.11	4.11	---	PASS
			30~1000	4.11	-68.89	≤-25.89	PASS
			1000~26500	4.11	-54.06	≤-25.89	PASS
	Ant2	2437	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-70.34	≤-26.19	PASS
			1000~26500	3.81	-54.4	≤-26.19	PASS
	Ant1	2462	Reference	5.05	5.05	---	PASS
			30~1000	5.05	-69.19	≤-24.95	PASS
			1000~26500	5.05	-53.58	≤-24.95	PASS
11G	Ant1	2412	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-68.96	≤-25.32	PASS
			1000~26500	4.68	-54.07	≤-25.32	PASS
	Ant2	2412	Reference	-5.80	-5.80	---	PASS
			30~1000	-5.80	-69.64	≤-35.8	PASS
			1000~26500	-5.80	-54.14	≤-35.8	PASS
	Ant2	2412	Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-69.98	≤-32.87	PASS
			1000~26500	-2.87	-54.21	≤-32.87	PASS
	Ant1	2437	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-69.42	≤-34.84	PASS
			1000~26500	-4.84	-53.82	≤-34.84	PASS
	Ant2	2437	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-66.15	≤-35.69	PASS
			1000~26500	-5.69	-53.98	≤-35.69	PASS
	Ant1	2462	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-69.74	≤-35.24	PASS
			1000~26500	-5.24	-53.17	≤-35.24	PASS
	Ant2	2462	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-69.9	≤-35.37	PASS

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11N20SISO	Ant1	2412	1000~26500	-5.37	-54.18	≤ -35.37	PASS
			Reference	-5.36	-5.36	---	PASS
			30~1000	-5.36	-63.41	≤ -35.36	PASS
	Ant2	2412	1000~26500	-5.36	-51.06	≤ -35.36	PASS
			Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-62.77	≤ -34.08	PASS
	Ant1	2437	1000~26500	-4.08	-54.58	≤ -34.08	PASS
			Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-68.9	≤ -33.49	PASS
	Ant2	2437	1000~26500	-3.49	-54.48	≤ -33.49	PASS
			Reference	-5.68	-5.68	---	PASS
			30~1000	-5.68	-54.43	≤ -35.68	PASS
	Ant1	2462	1000~26500	-5.68	-53.63	≤ -35.68	PASS
			Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-70.13	≤ -35.52	PASS
	Ant2	2462	1000~26500	-5.52	-53.76	≤ -35.52	PASS
			Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-56.13	≤ -35.91	PASS
11N40SISO	Ant1	2422	1000~26500	-5.91	-53.26	≤ -35.91	PASS
			Reference	-5.56	-5.56	---	PASS
			30~1000	-5.56	-70.09	≤ -35.56	PASS
	Ant2	2422	1000~26500	-5.56	-53.85	≤ -35.56	PASS
			Reference	-5.89	-5.89	---	PASS
			30~1000	-5.89	-67.28	≤ -35.89	PASS
	Ant1	2437	1000~26500	-5.89	-53.61	≤ -35.89	PASS
			Reference	-5.54	-5.54	---	PASS
			30~1000	-5.54	-69.54	≤ -35.54	PASS
	Ant2	2437	1000~26500	-5.54	-53.67	≤ -35.54	PASS
			Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-70.38	≤ -36.58	PASS
	Ant1	2452	1000~26500	-6.58	-54.17	≤ -36.58	PASS
			Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-60.8	≤ -36.11	PASS
	Ant2	2452	1000~26500	-6.11	-53.85	≤ -36.11	PASS
			Reference	-6.76	-6.76	---	PASS
			30~1000	-6.76	-42.96	≤ -36.76	PASS
	Ant1	2452	1000~26500	-6.76	-53.66	≤ -36.76	PASS
			Reference	-6.76	-6.76	---	PASS
			30~1000	-6.76	-42.96	≤ -36.76	PASS

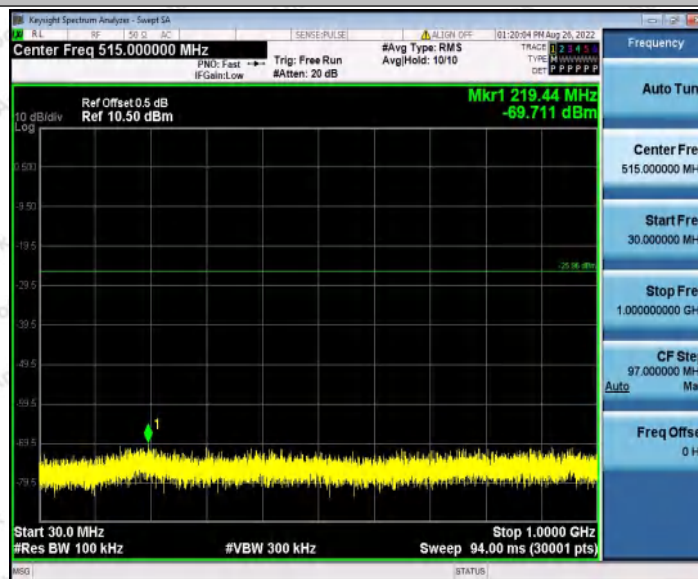


Test Graphs

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11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

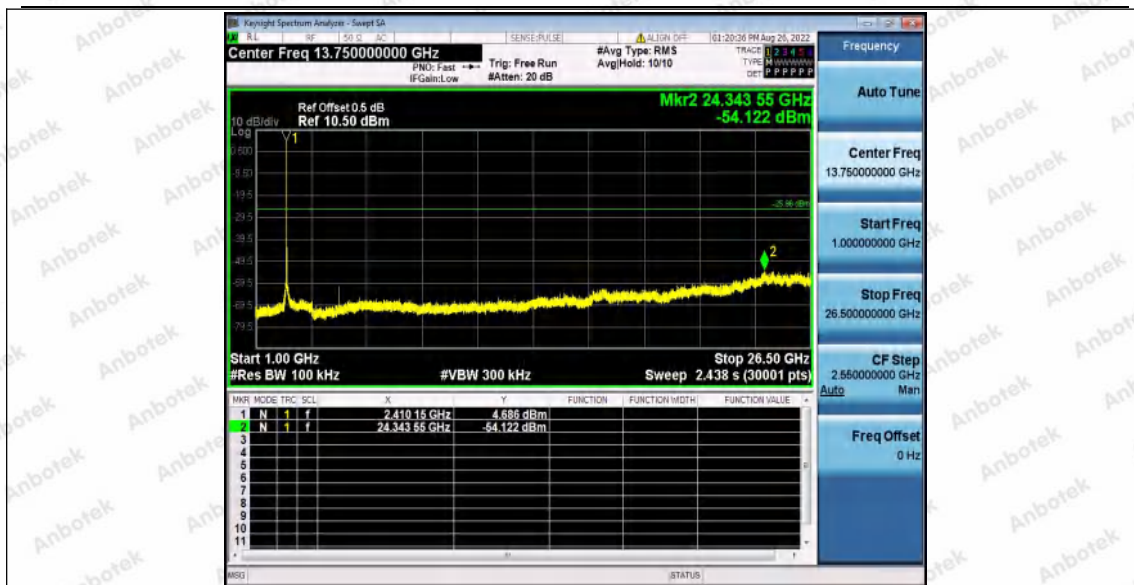
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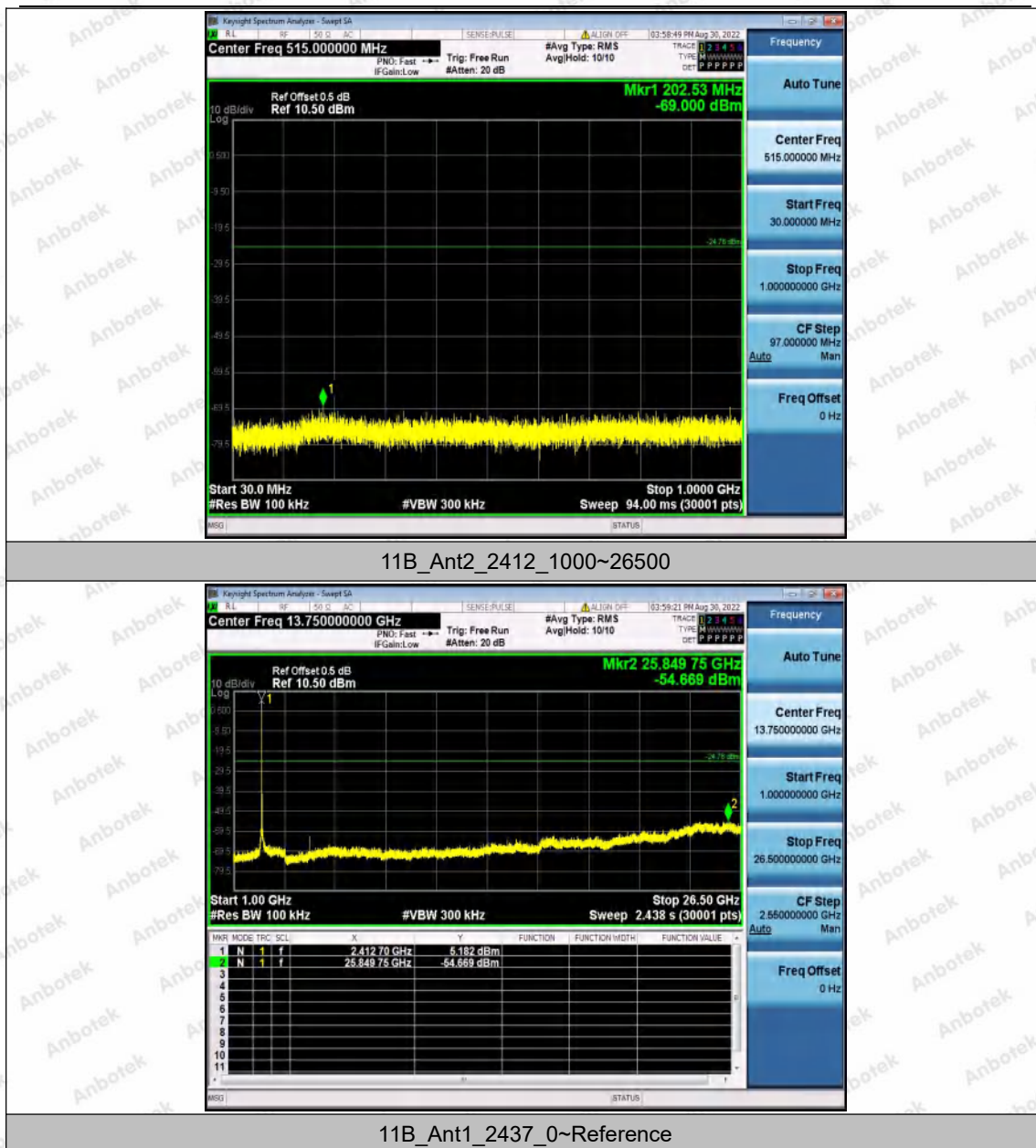


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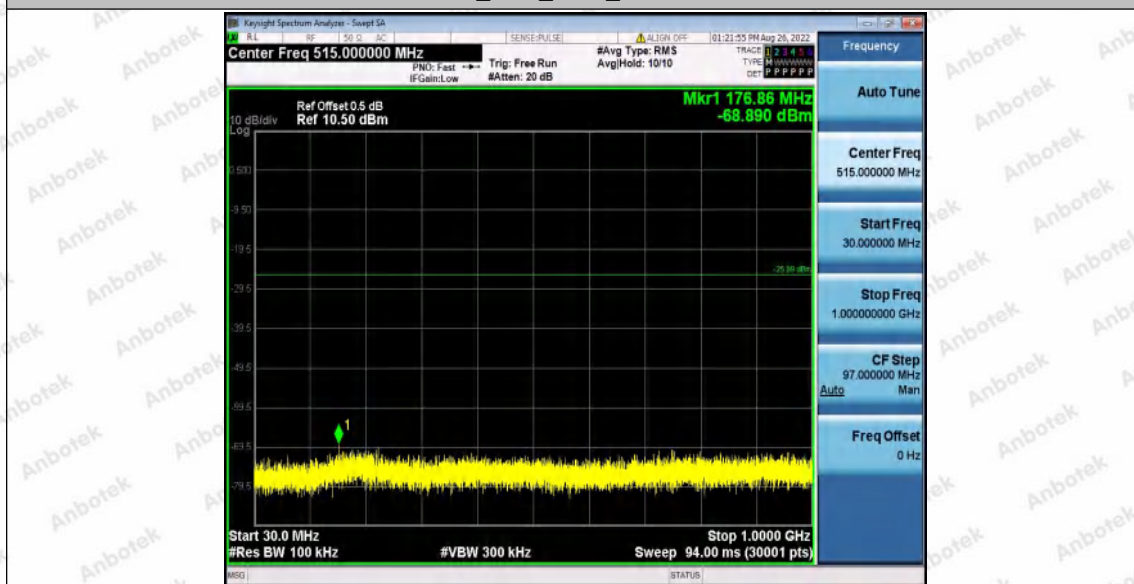
11B_Ant2_2412_30~1000





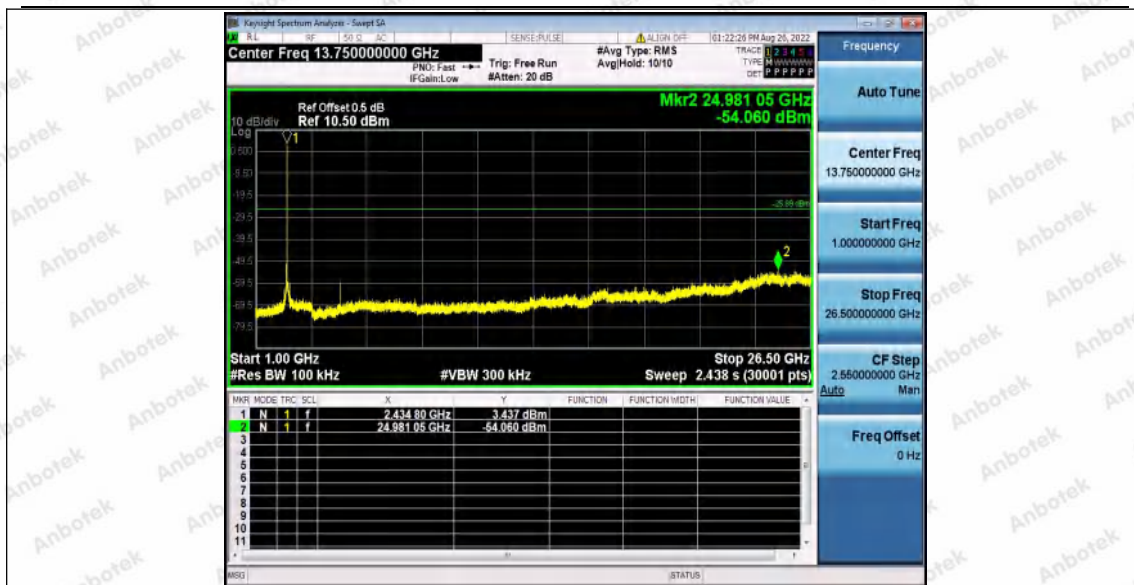


11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500





11B_Ant2_2437_0~Reference



11B_Ant2_2437_30~1000

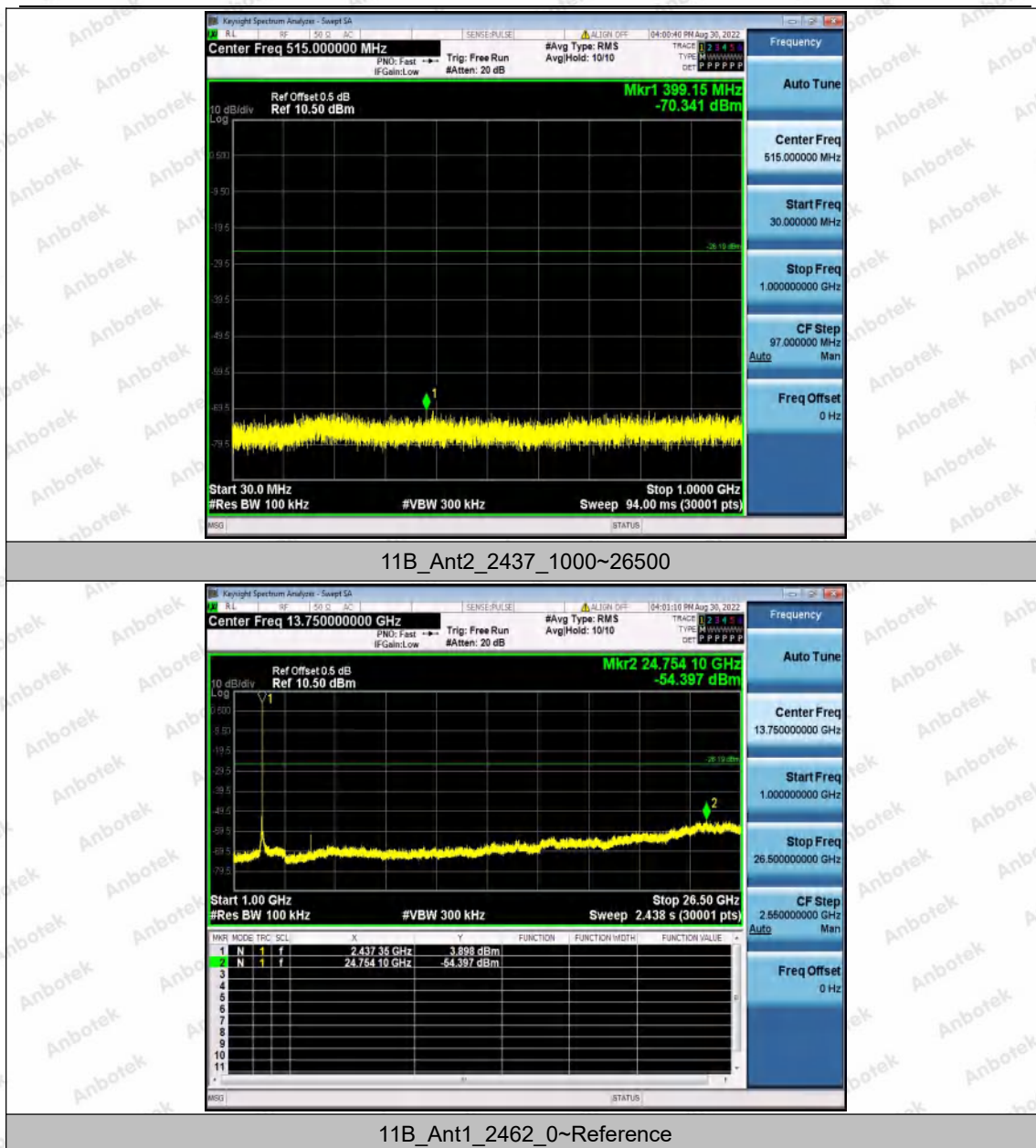
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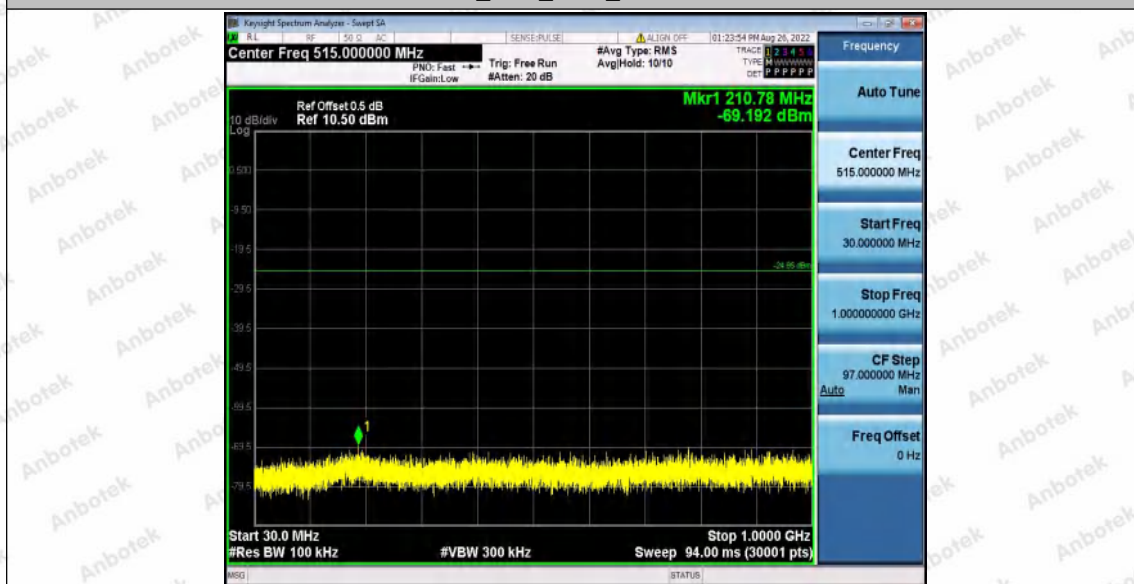


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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

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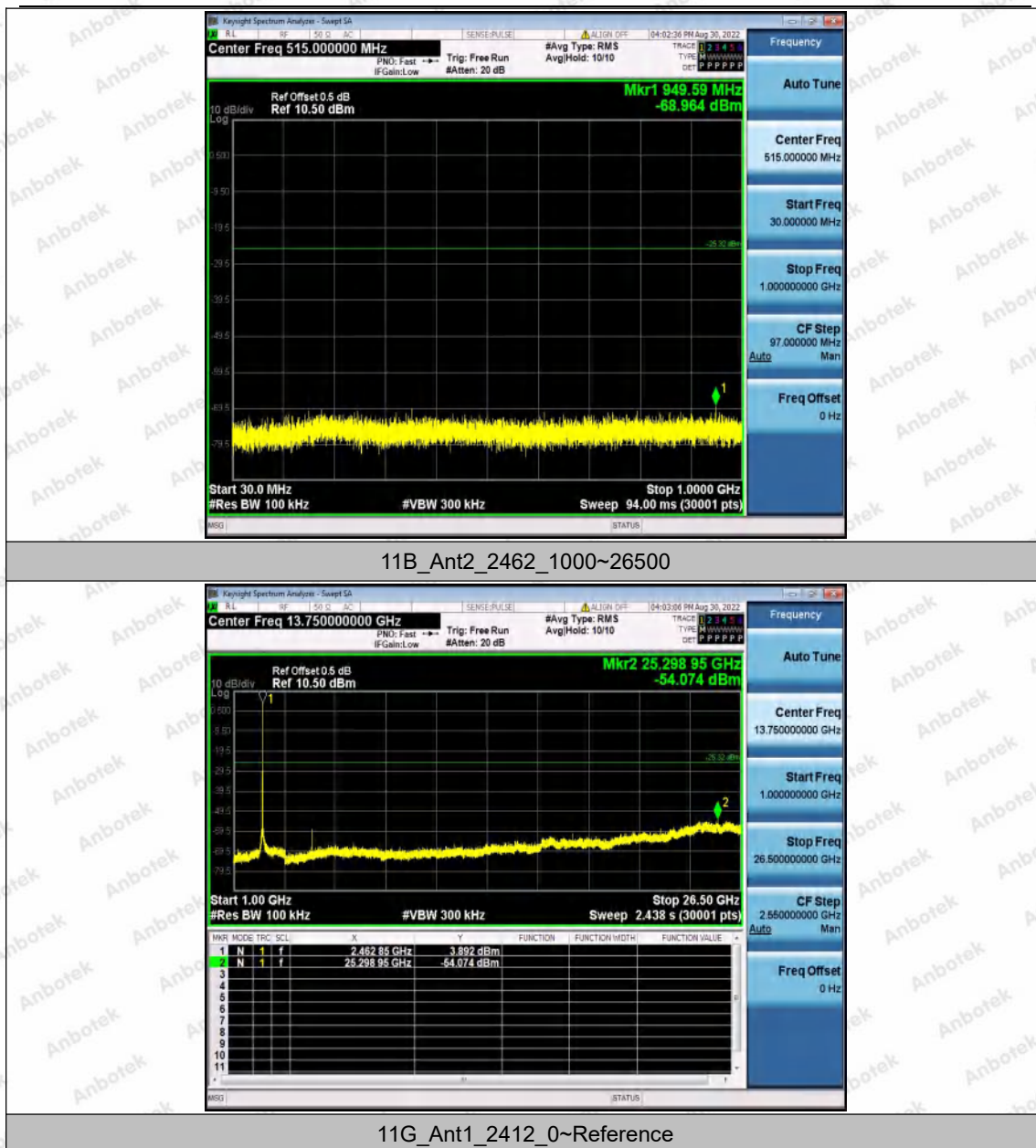


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11B_Ant2_2462_30~1000



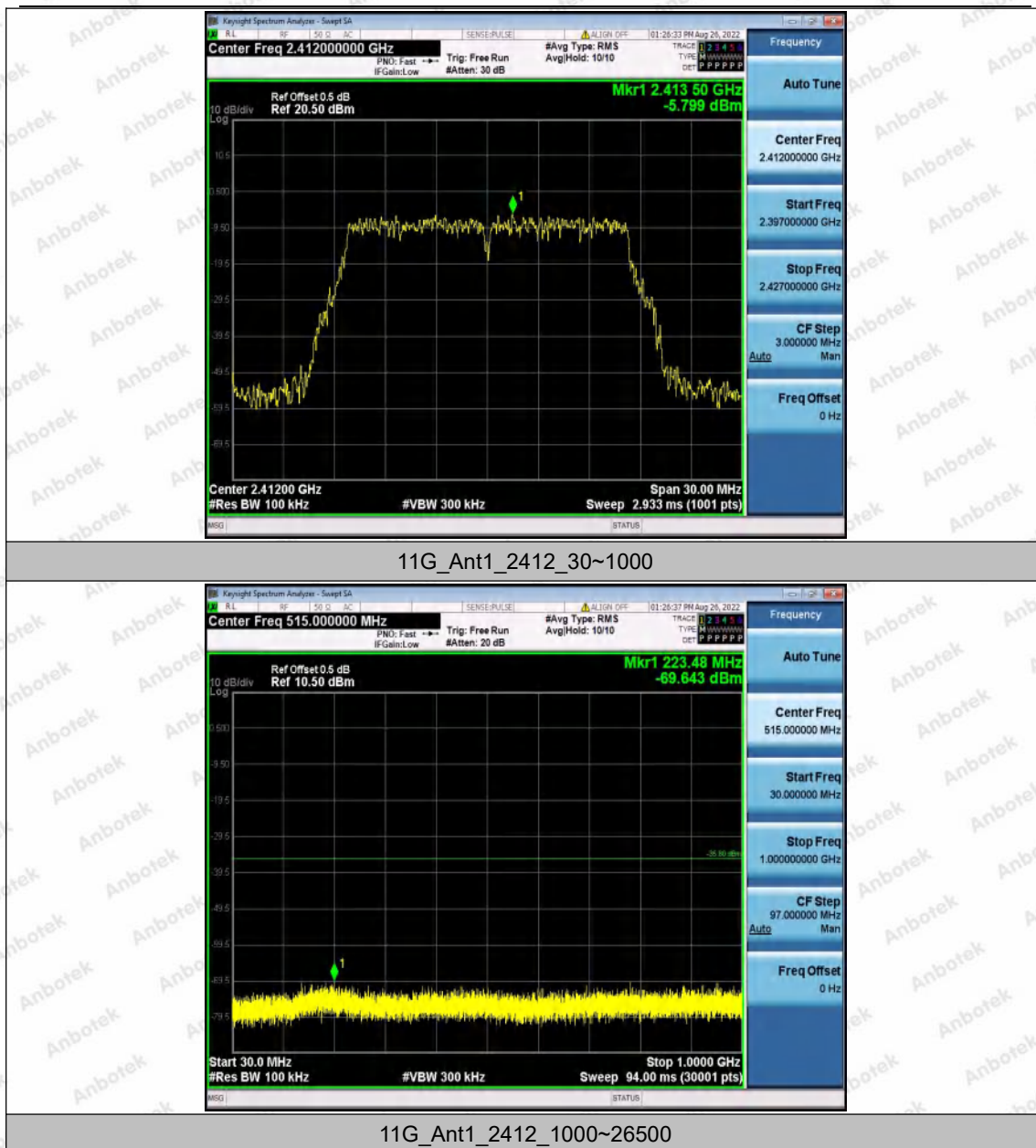
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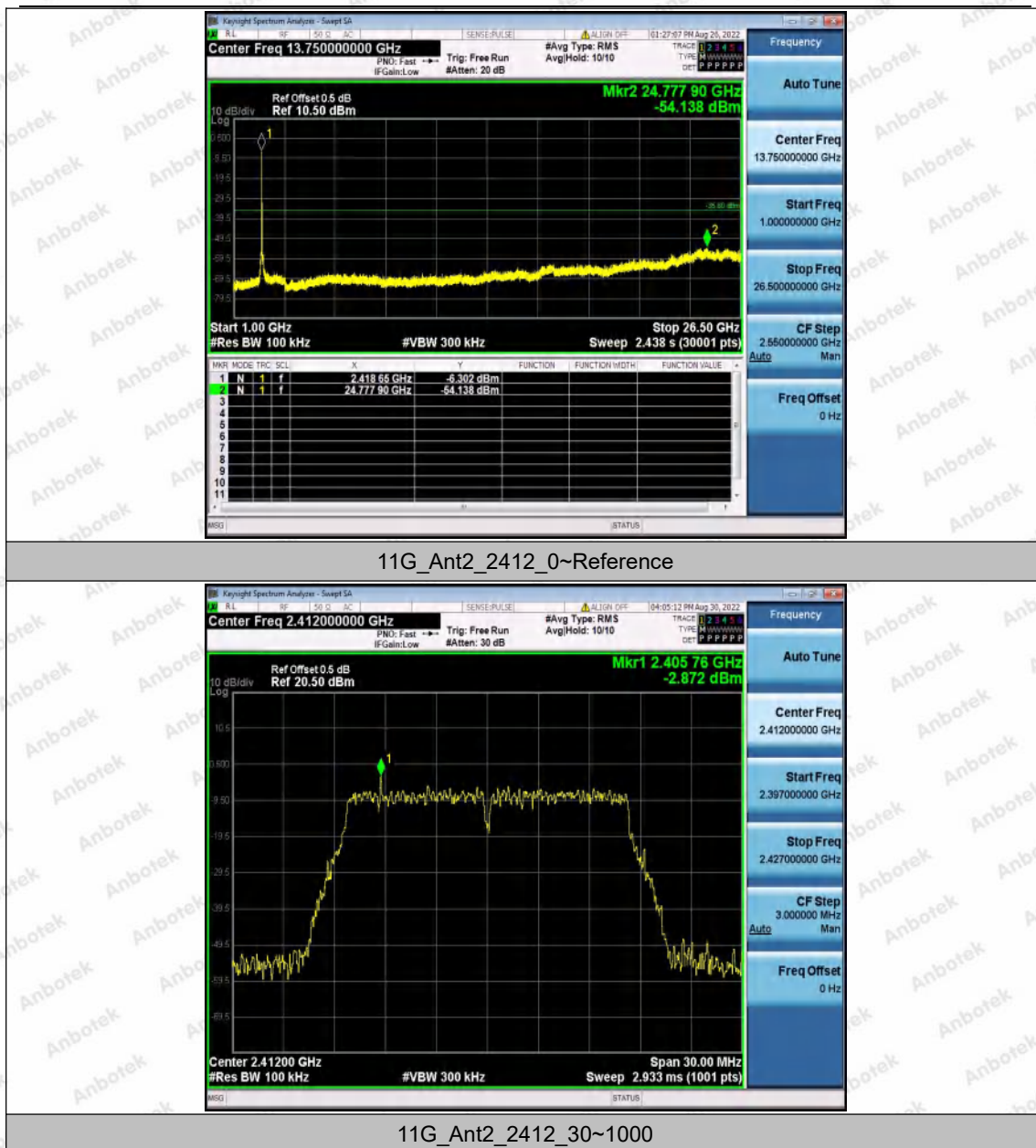
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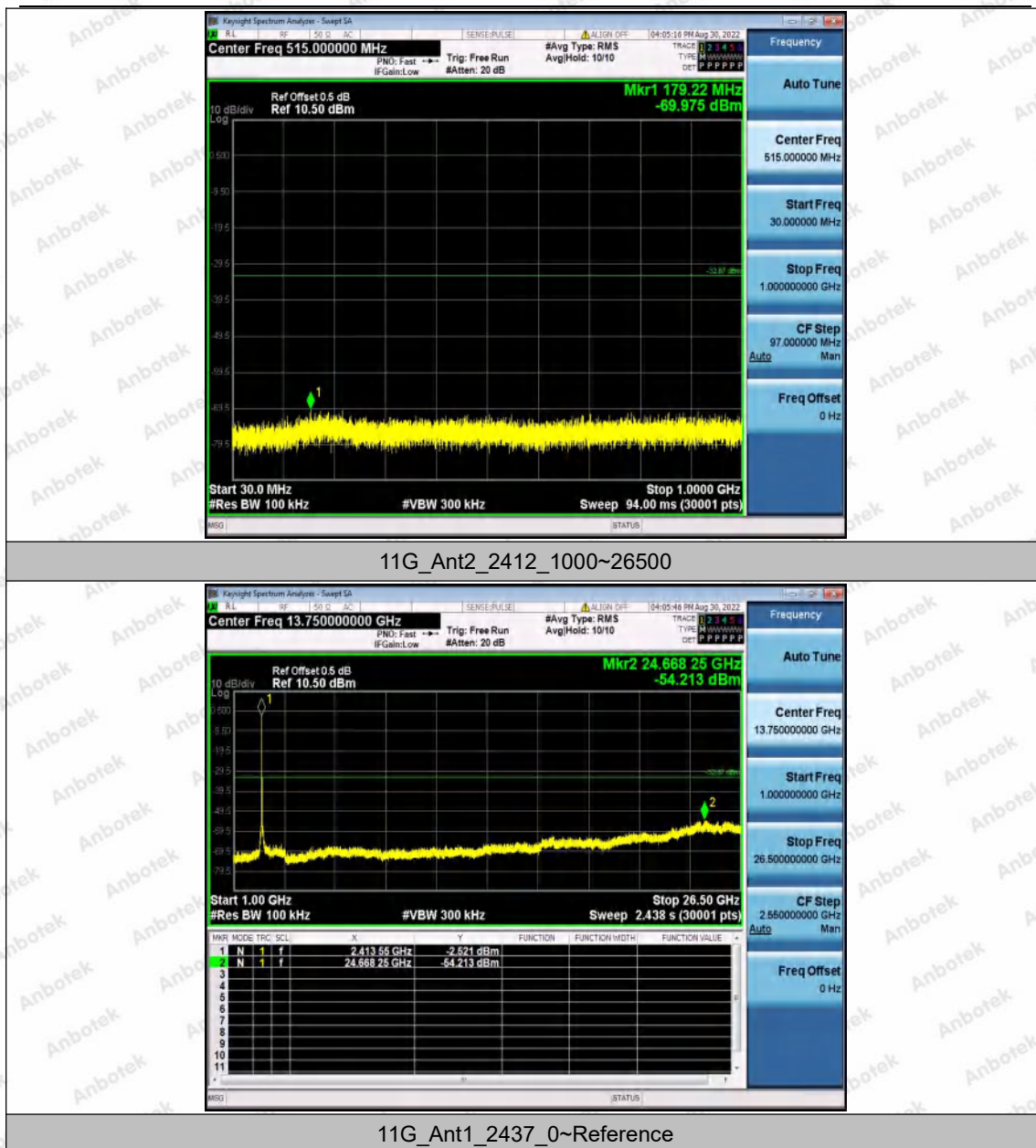
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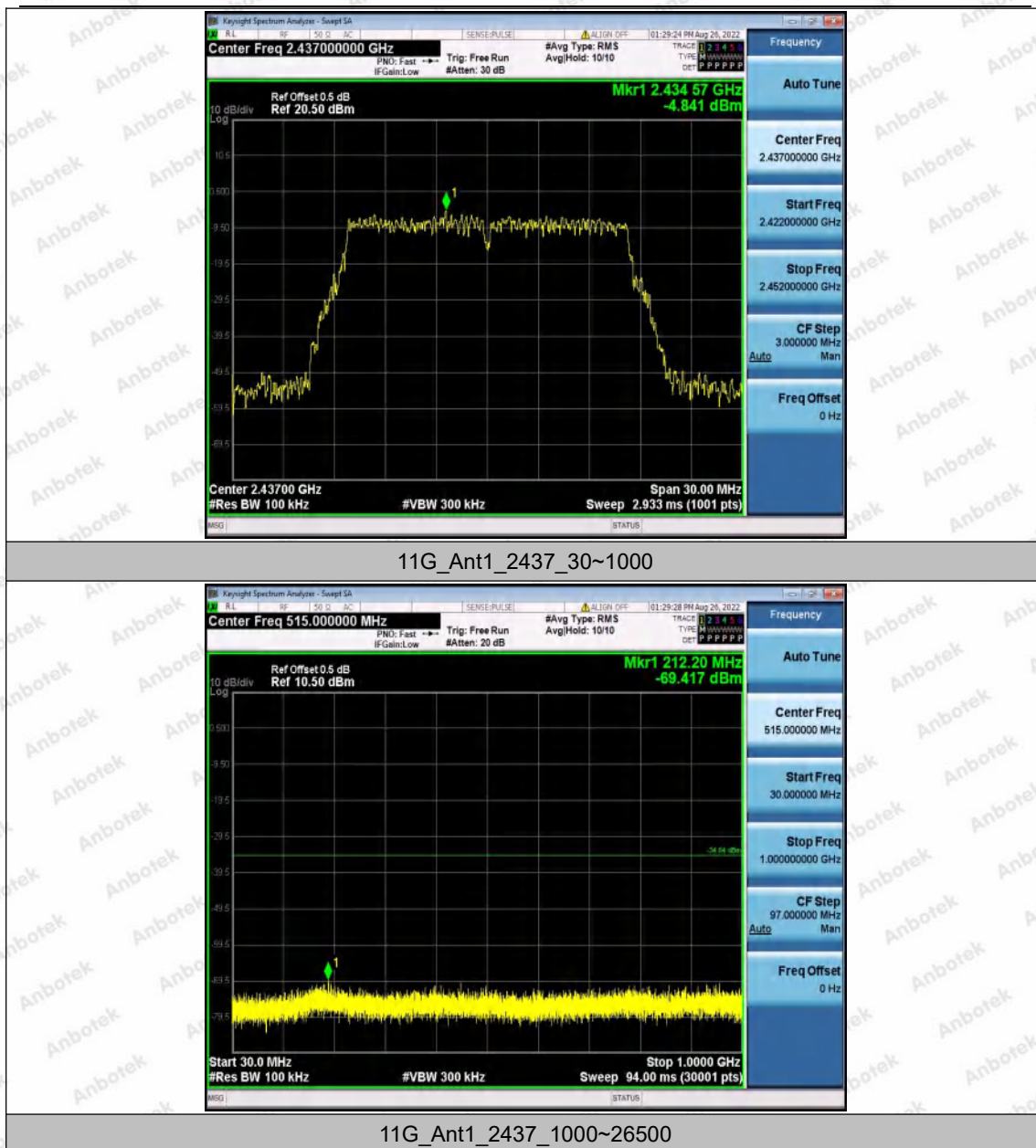
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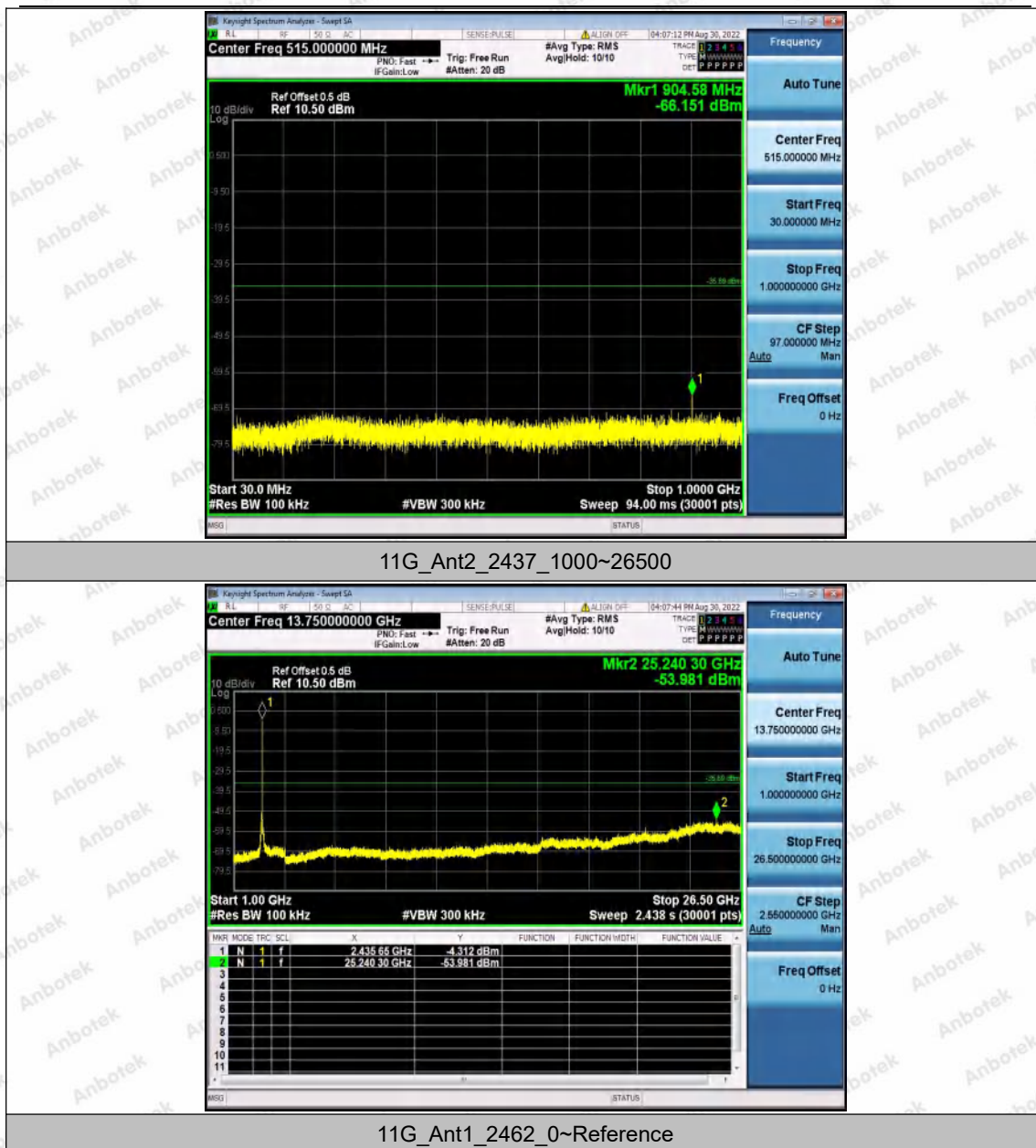


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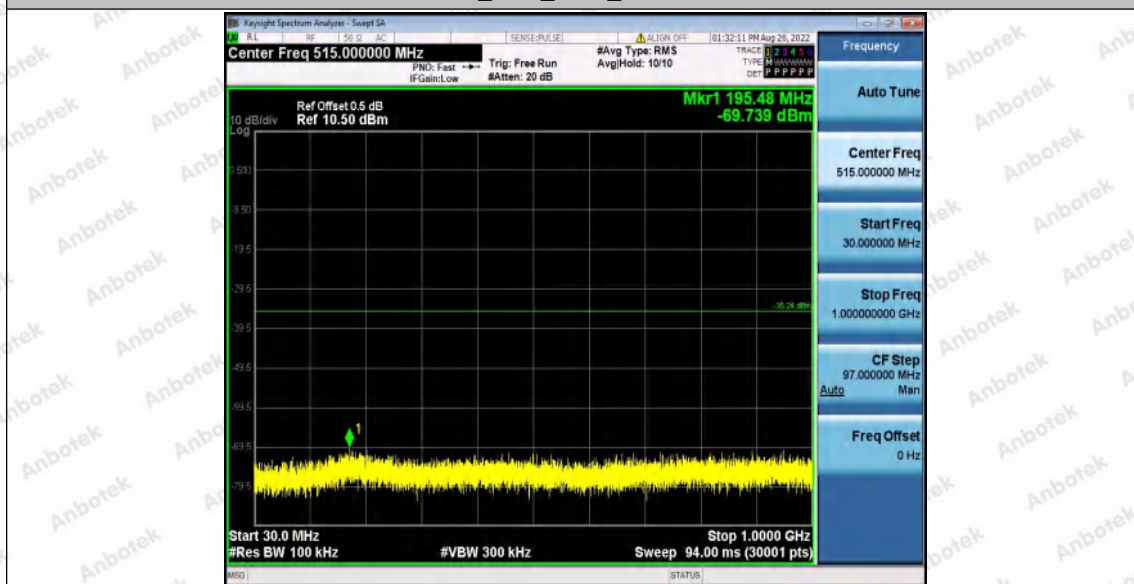
11G_Ant2_2437_30~1000





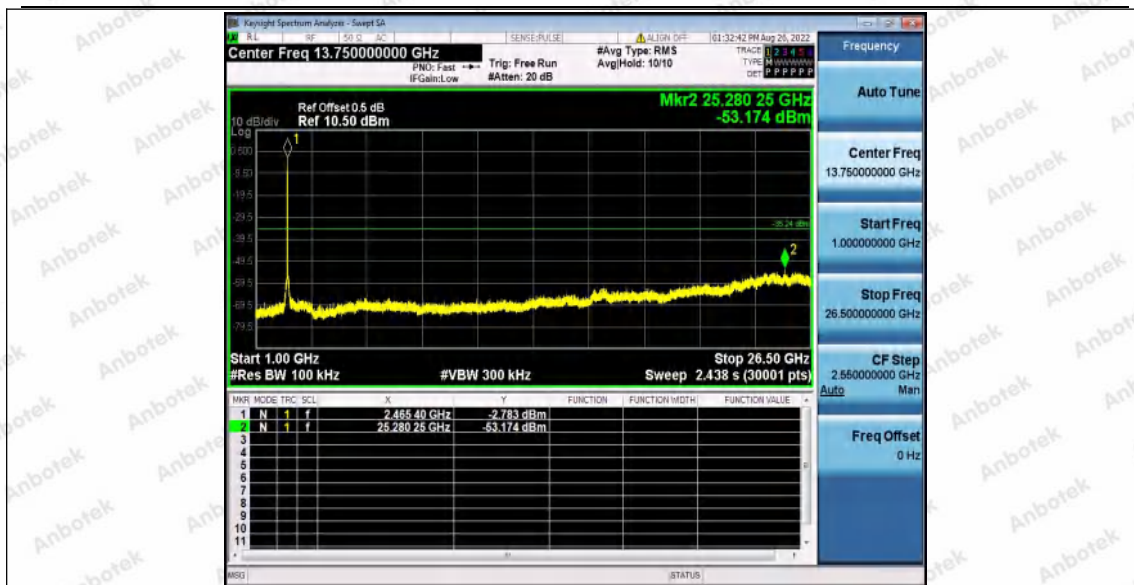


11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500





11G_Ant2_2462_0~Reference



11G_Ant2_2462_30~1000

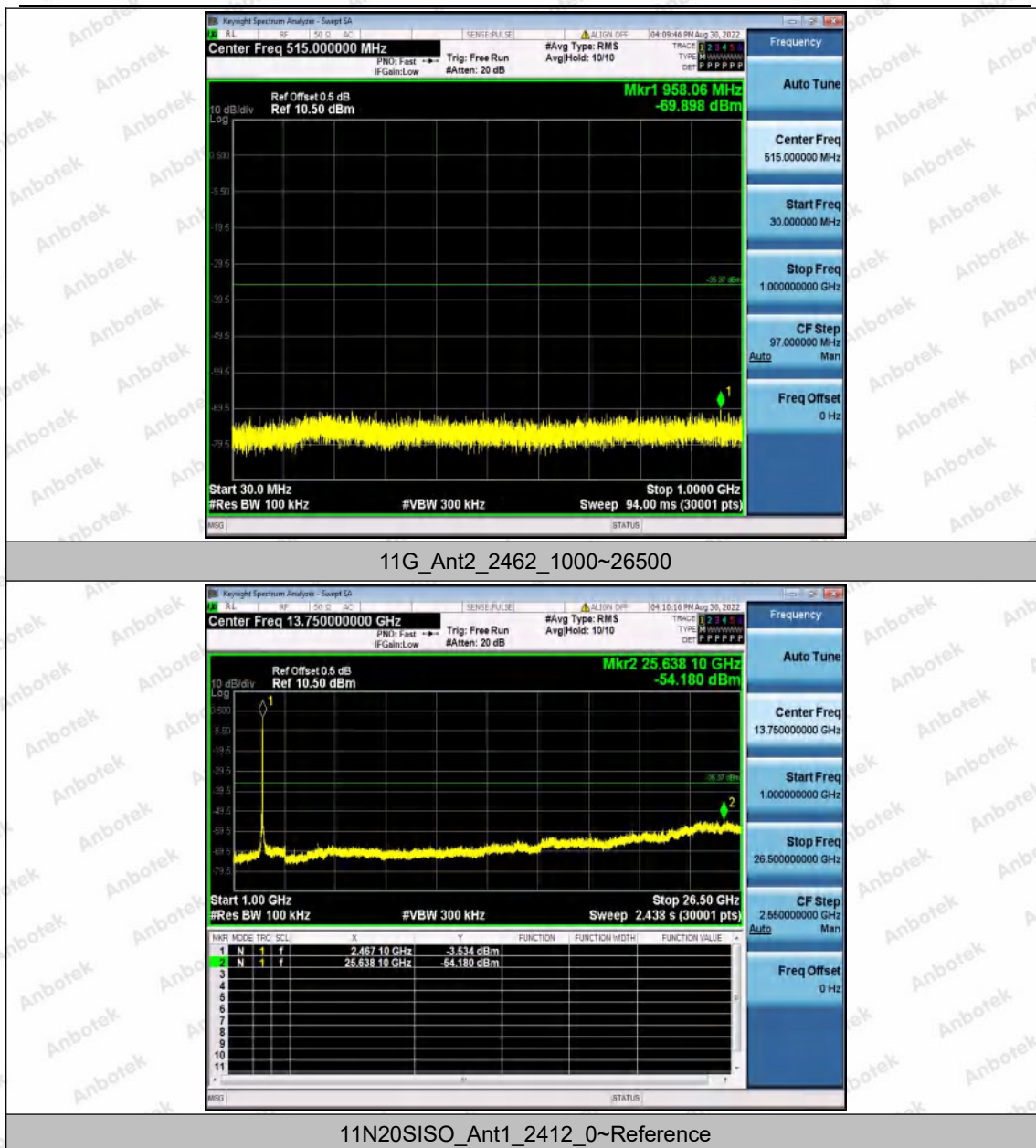
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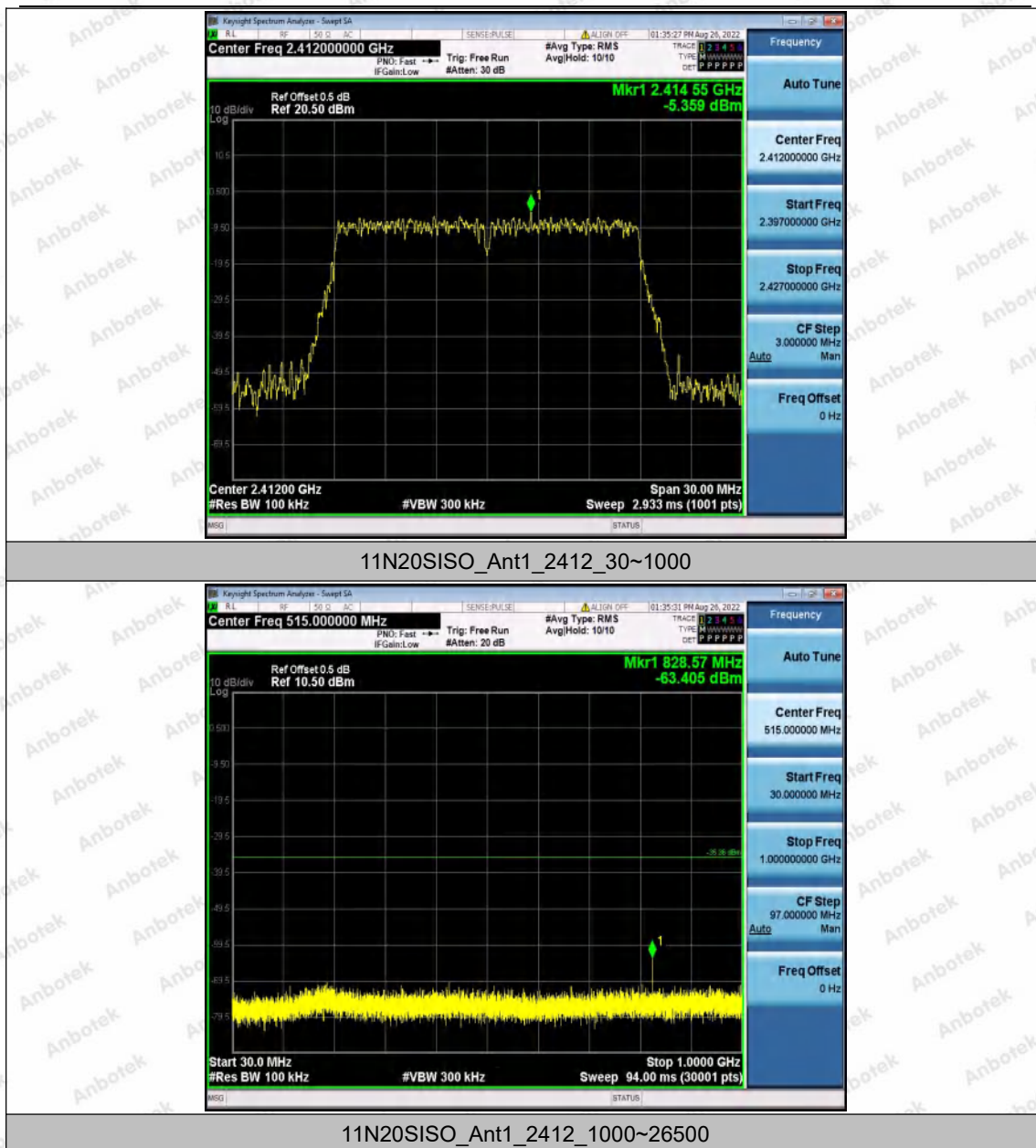
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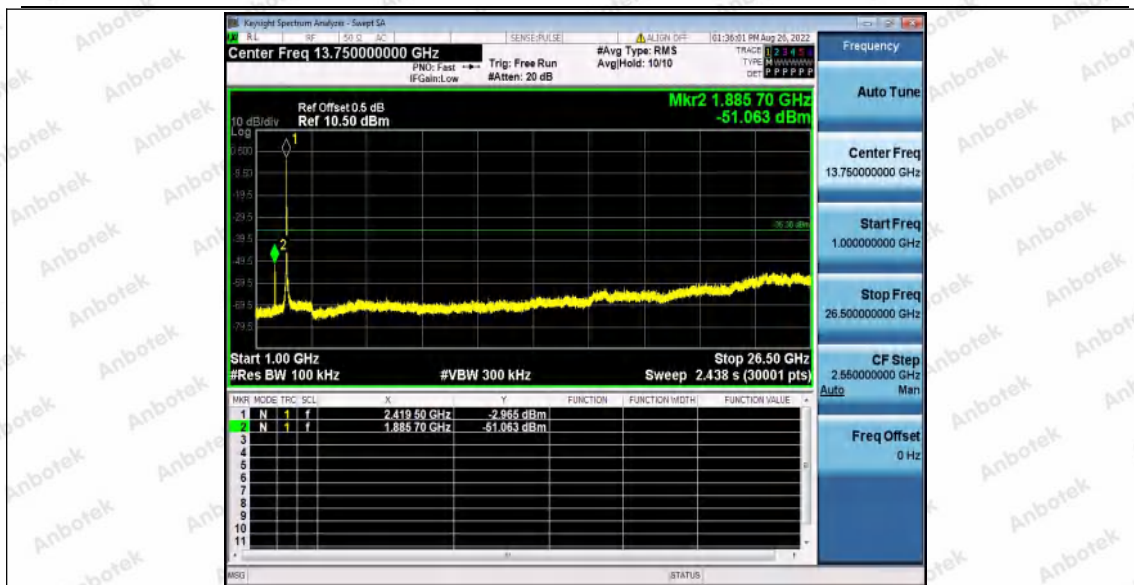
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11N20SISO_Ant2_2412_0~Reference



11N20SISO_Ant2_2412_30~1000

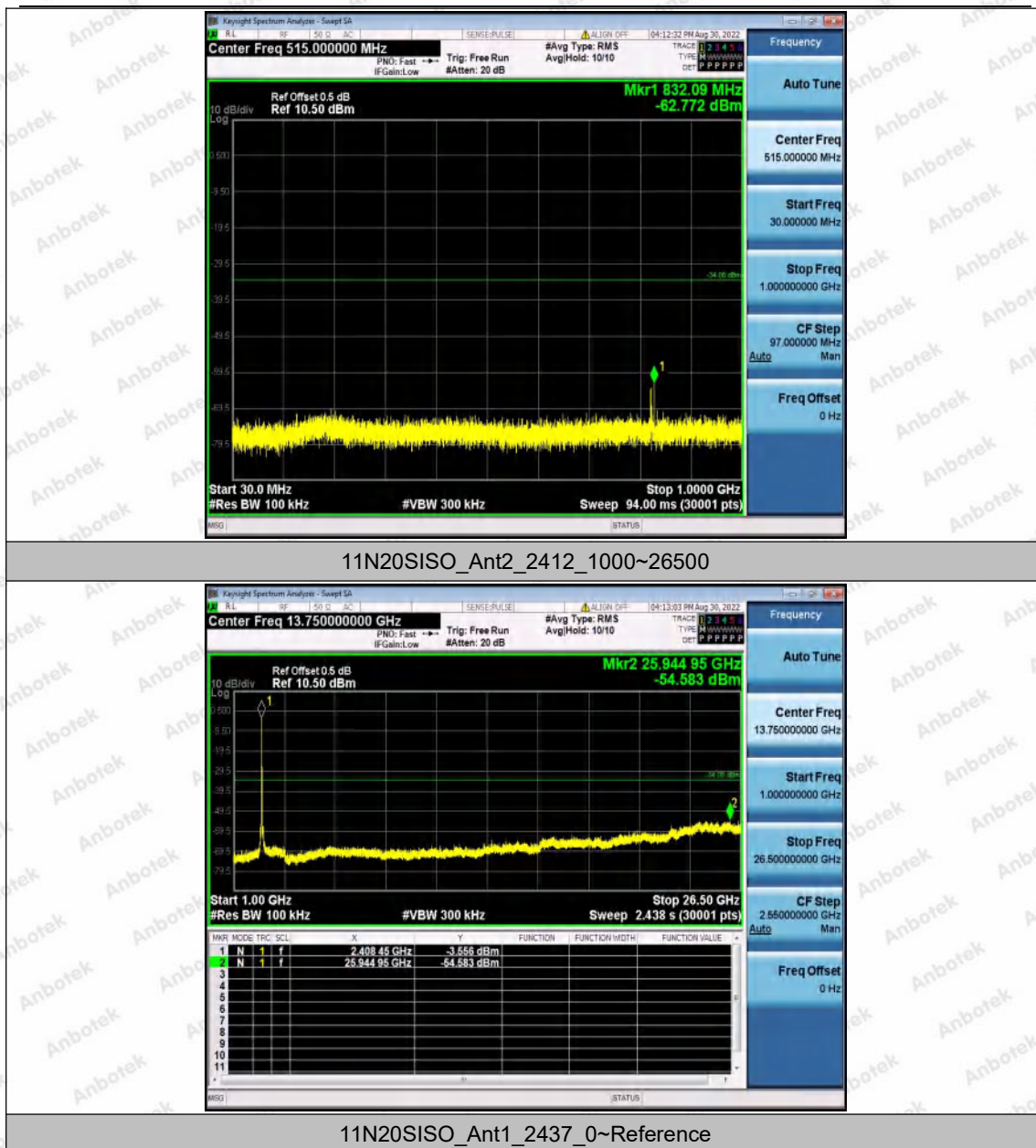
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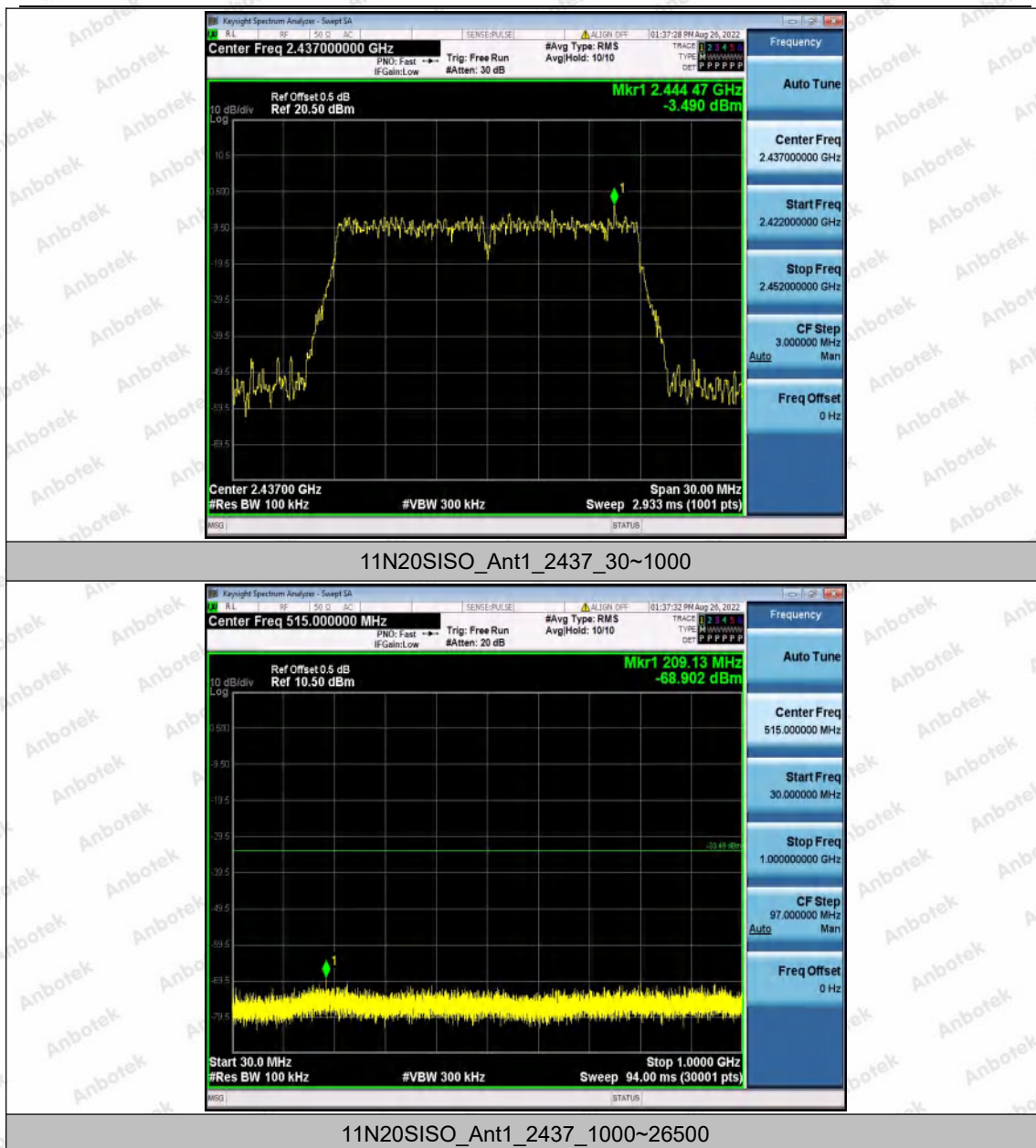
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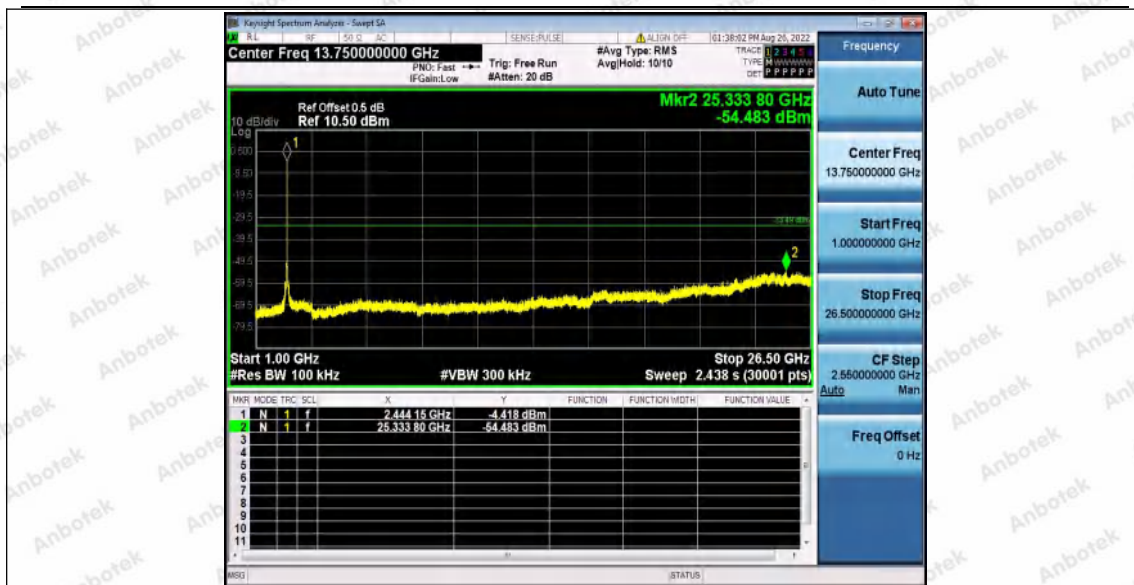
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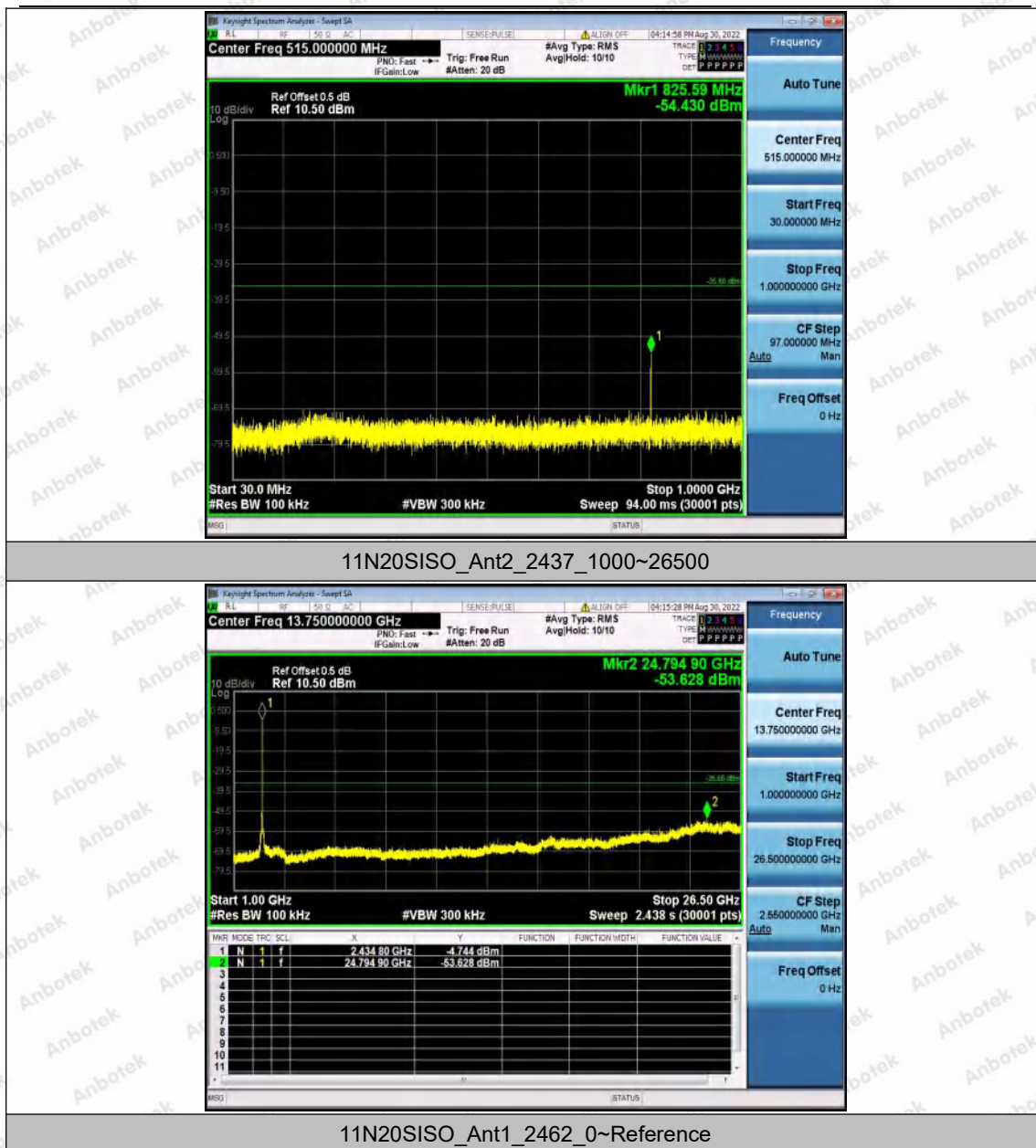


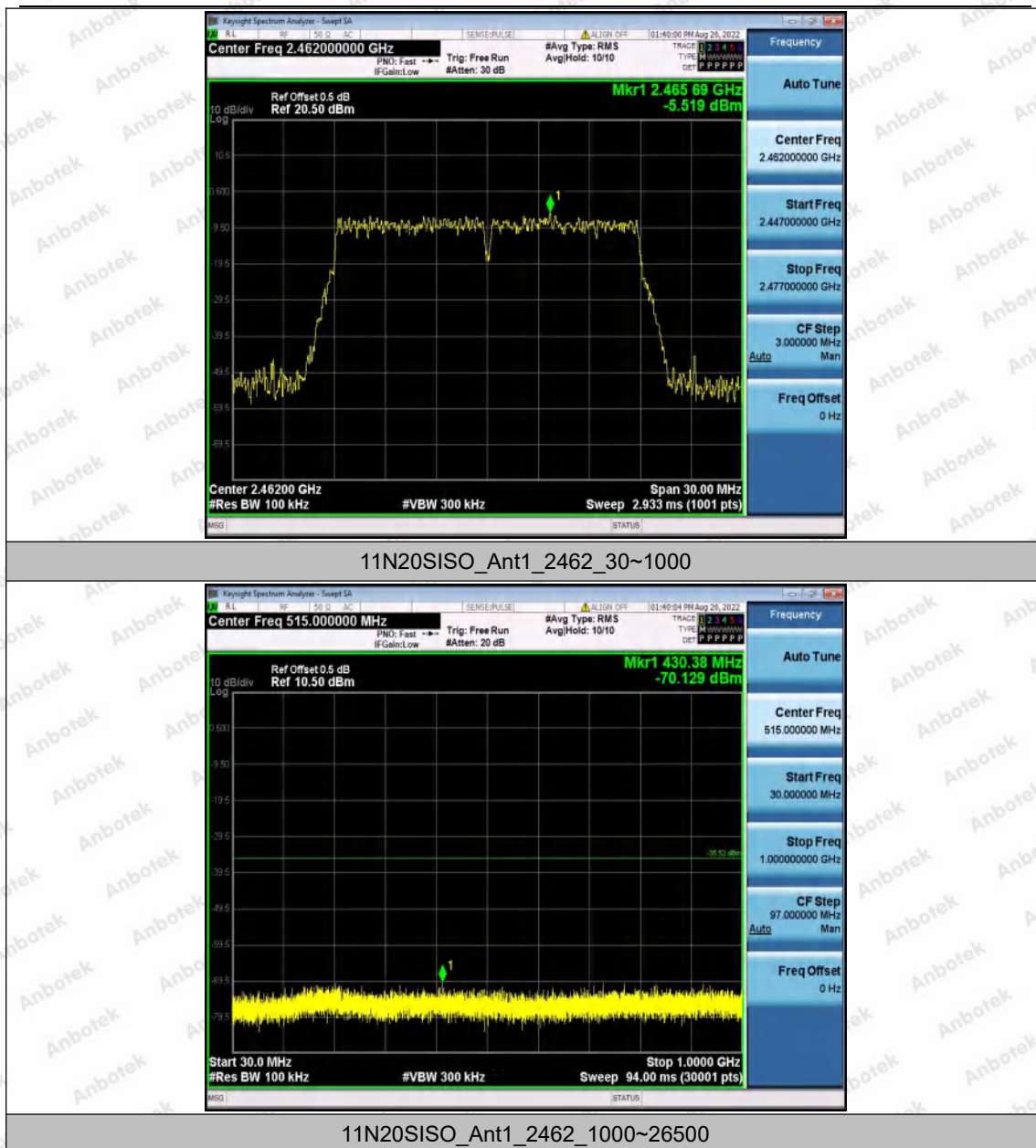
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11N20SISO_Ant2_2437_30~1000







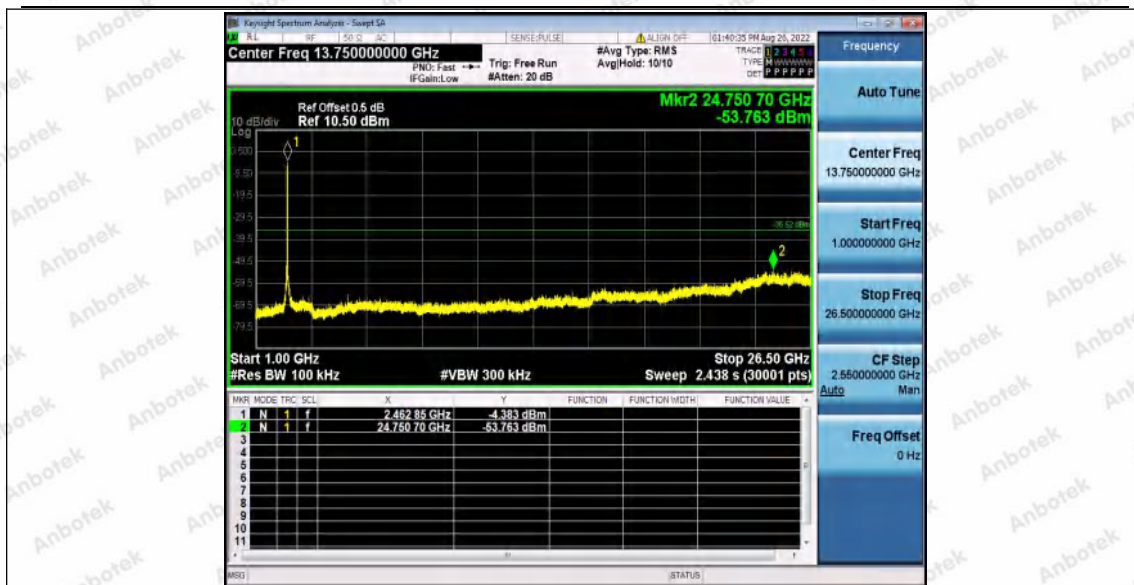
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11N20SISO_Ant2_2462_0~Reference



11N20SISO_Ant2_2462_30~1000

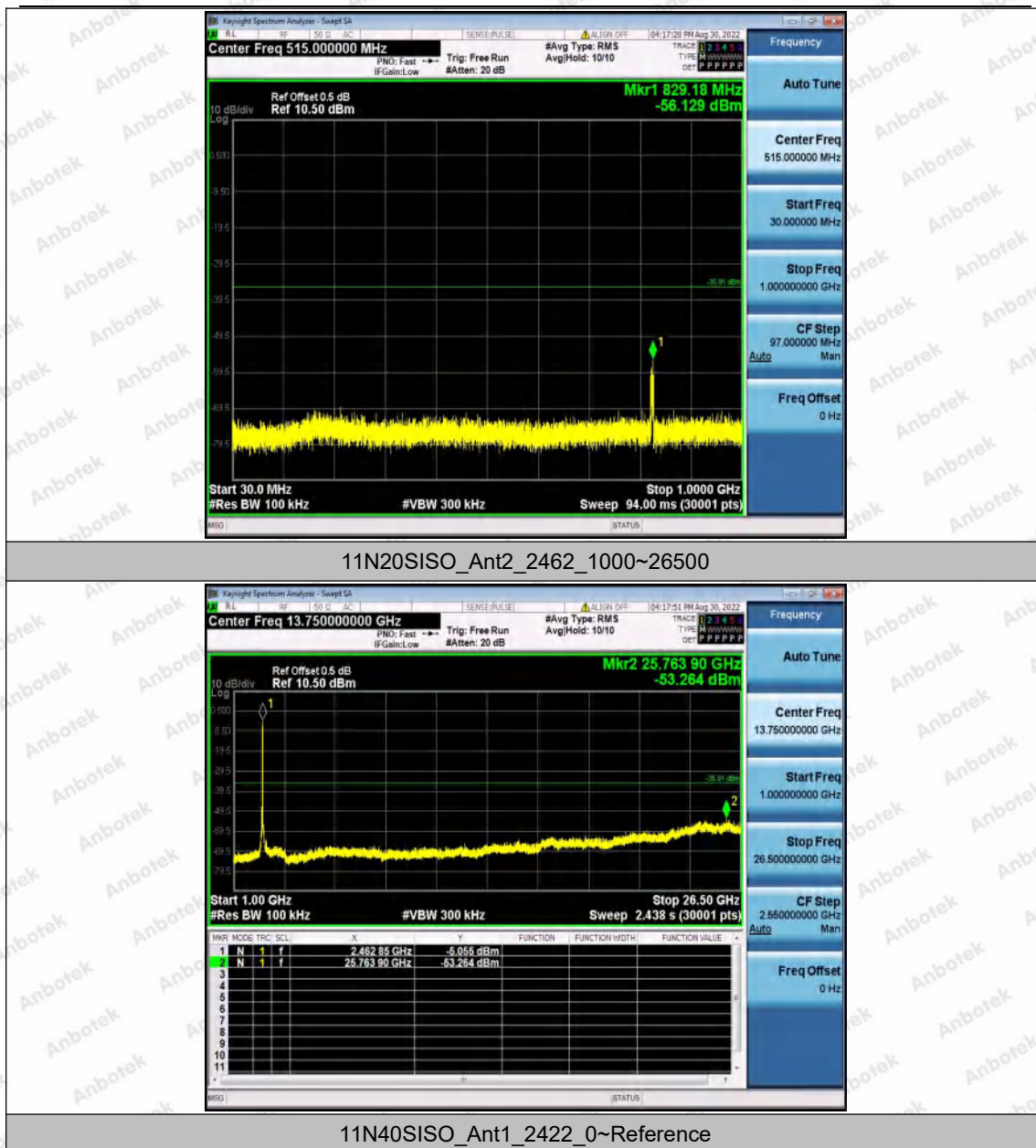
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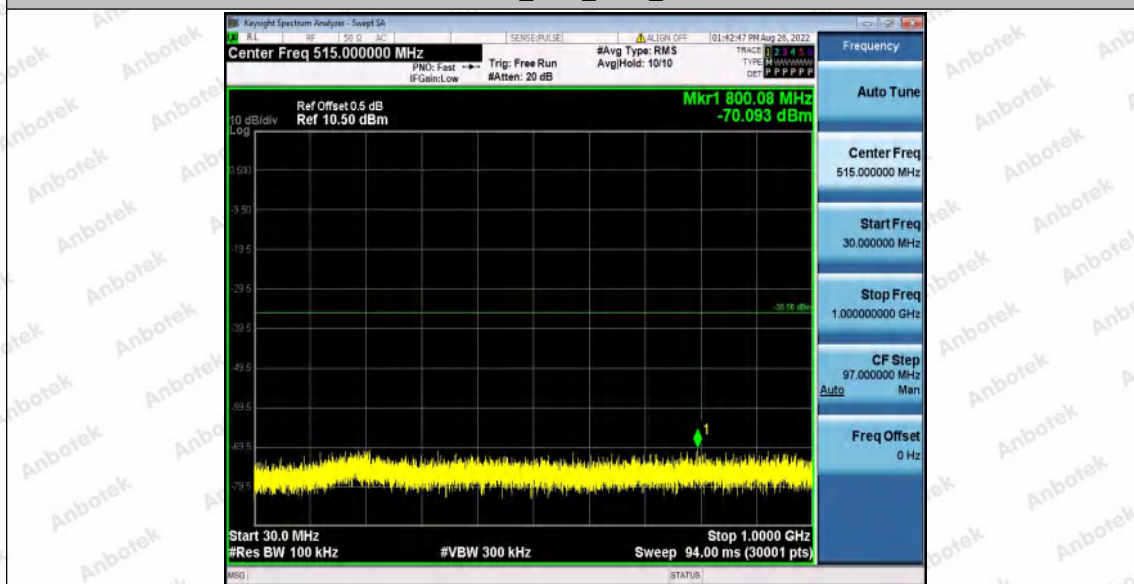
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11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500

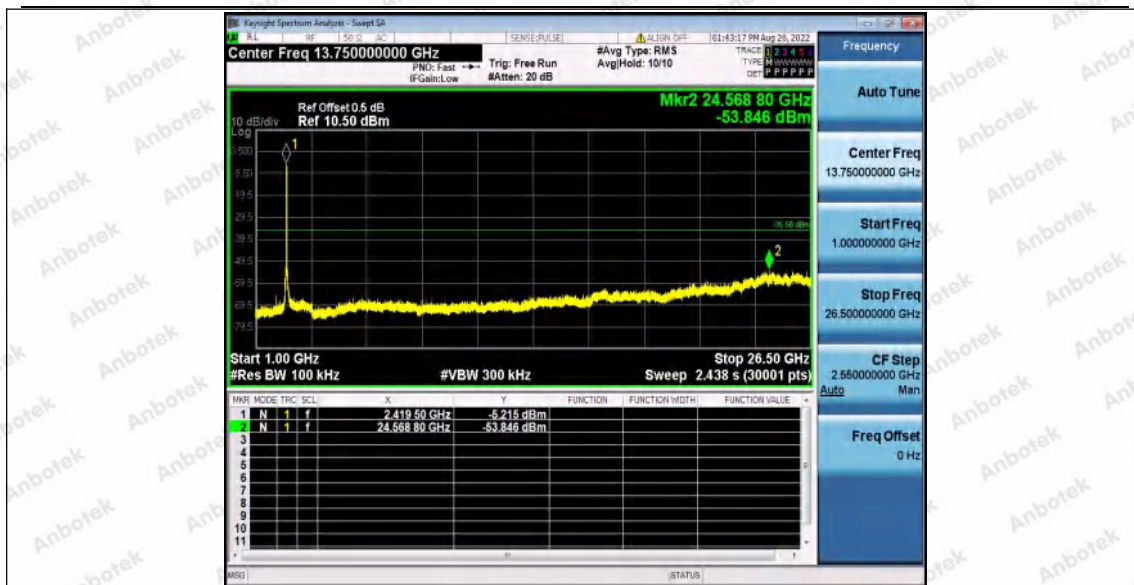
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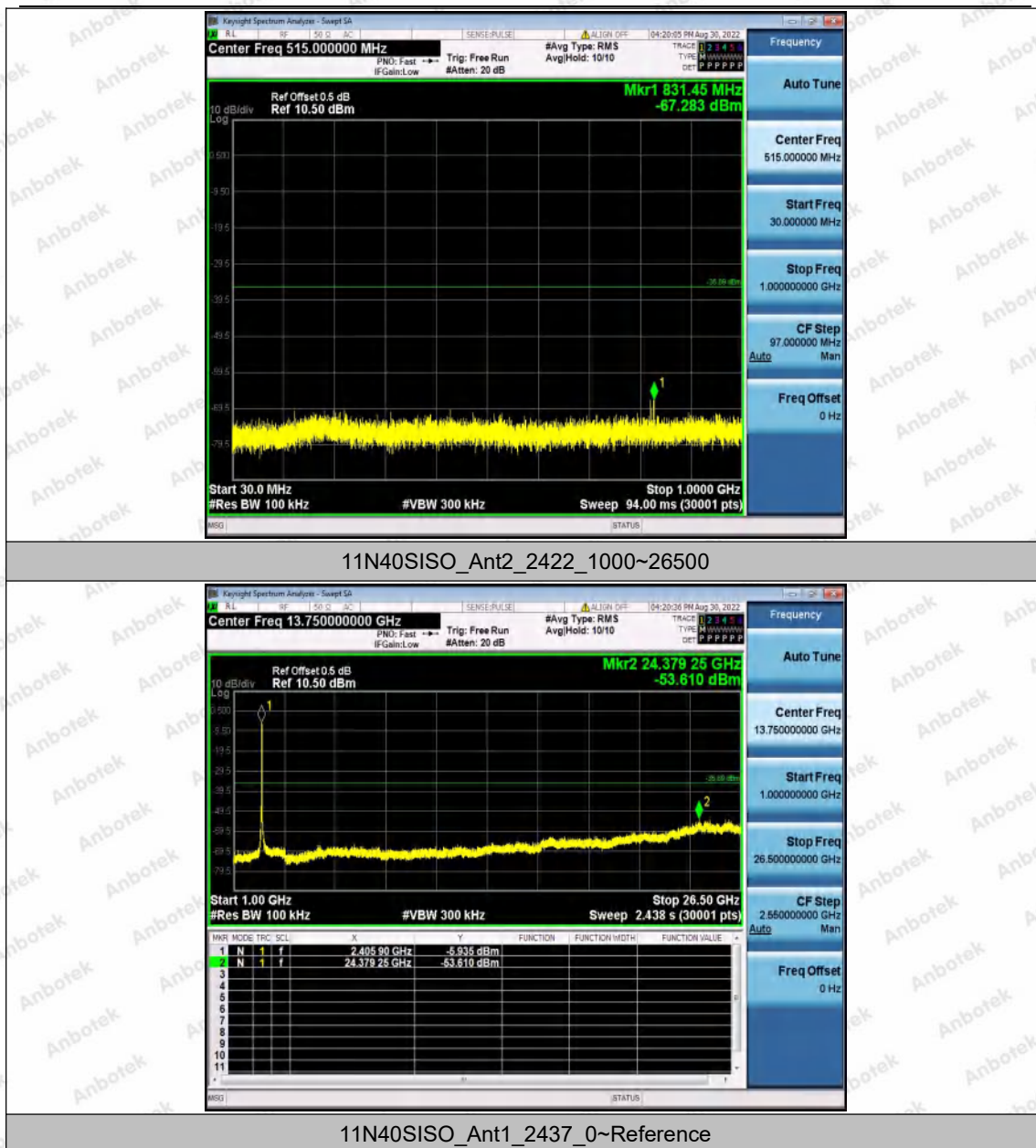


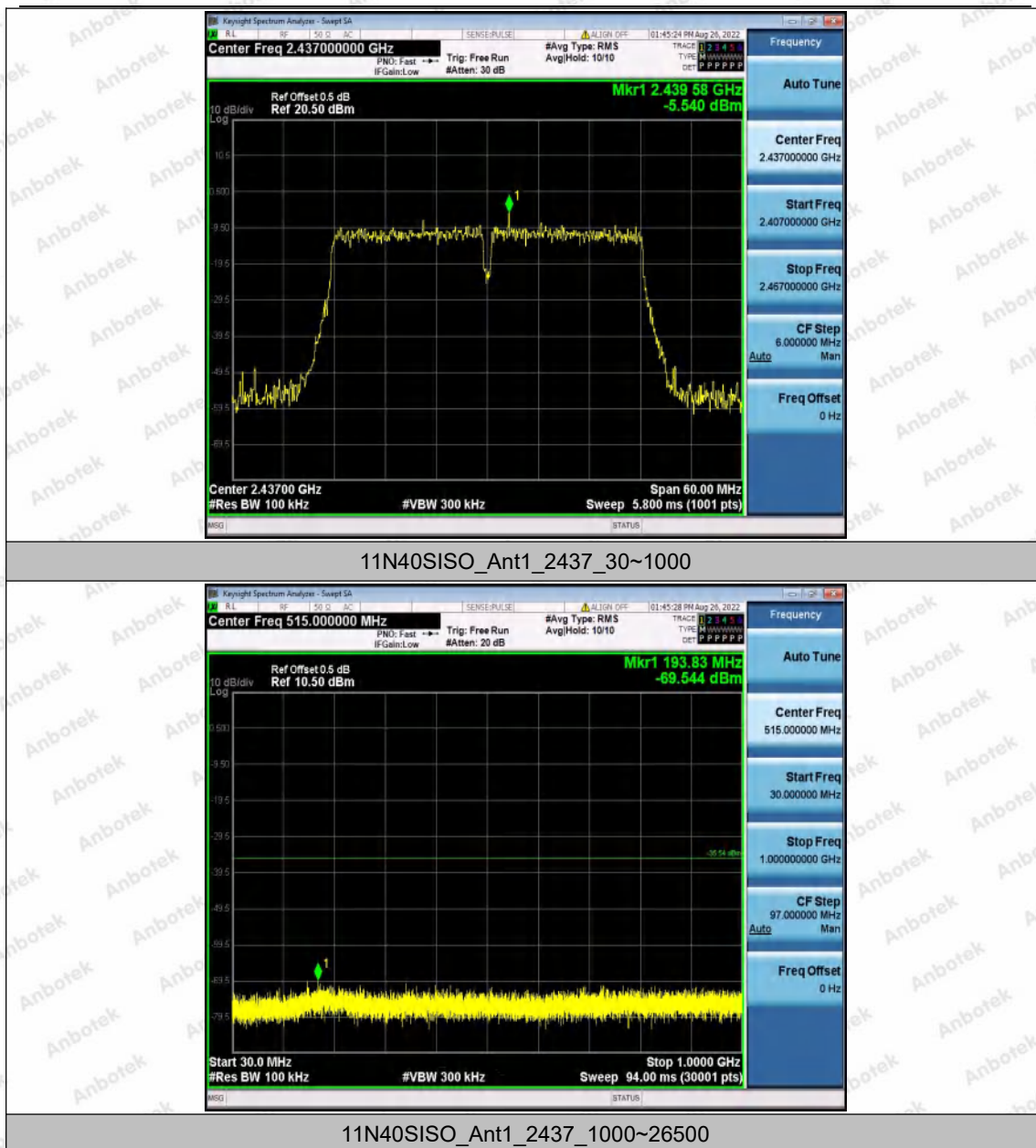
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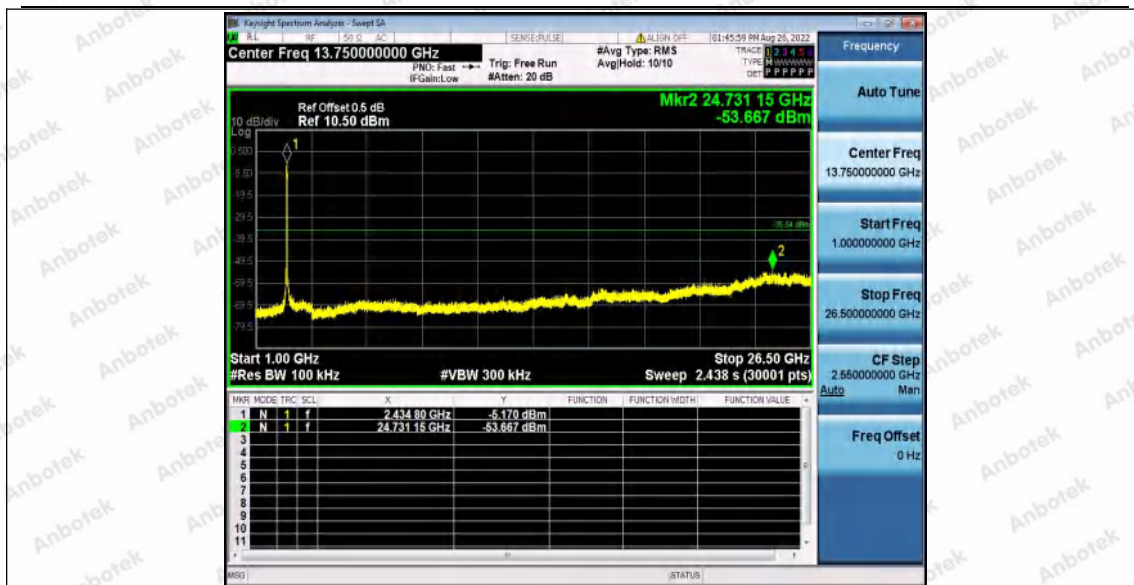
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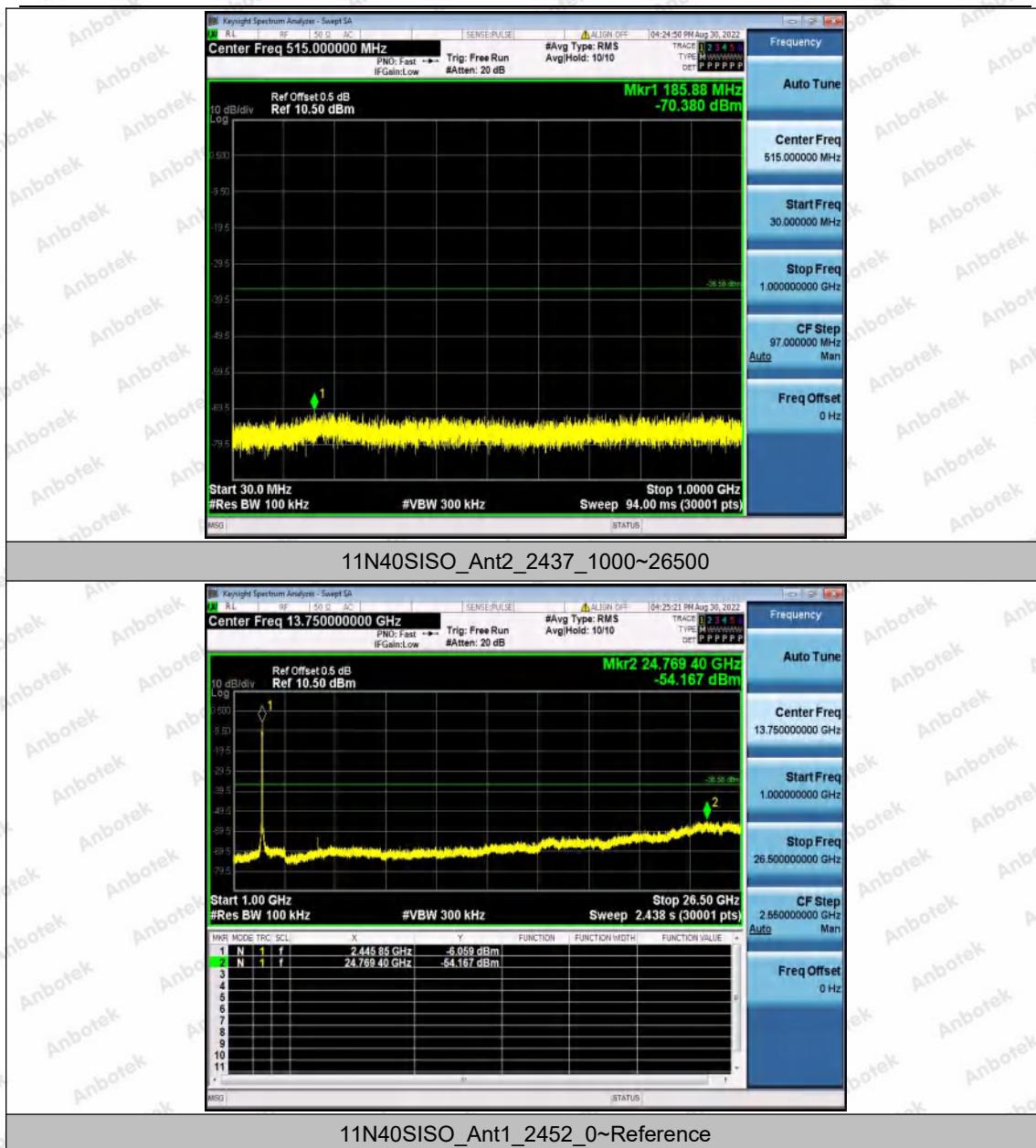


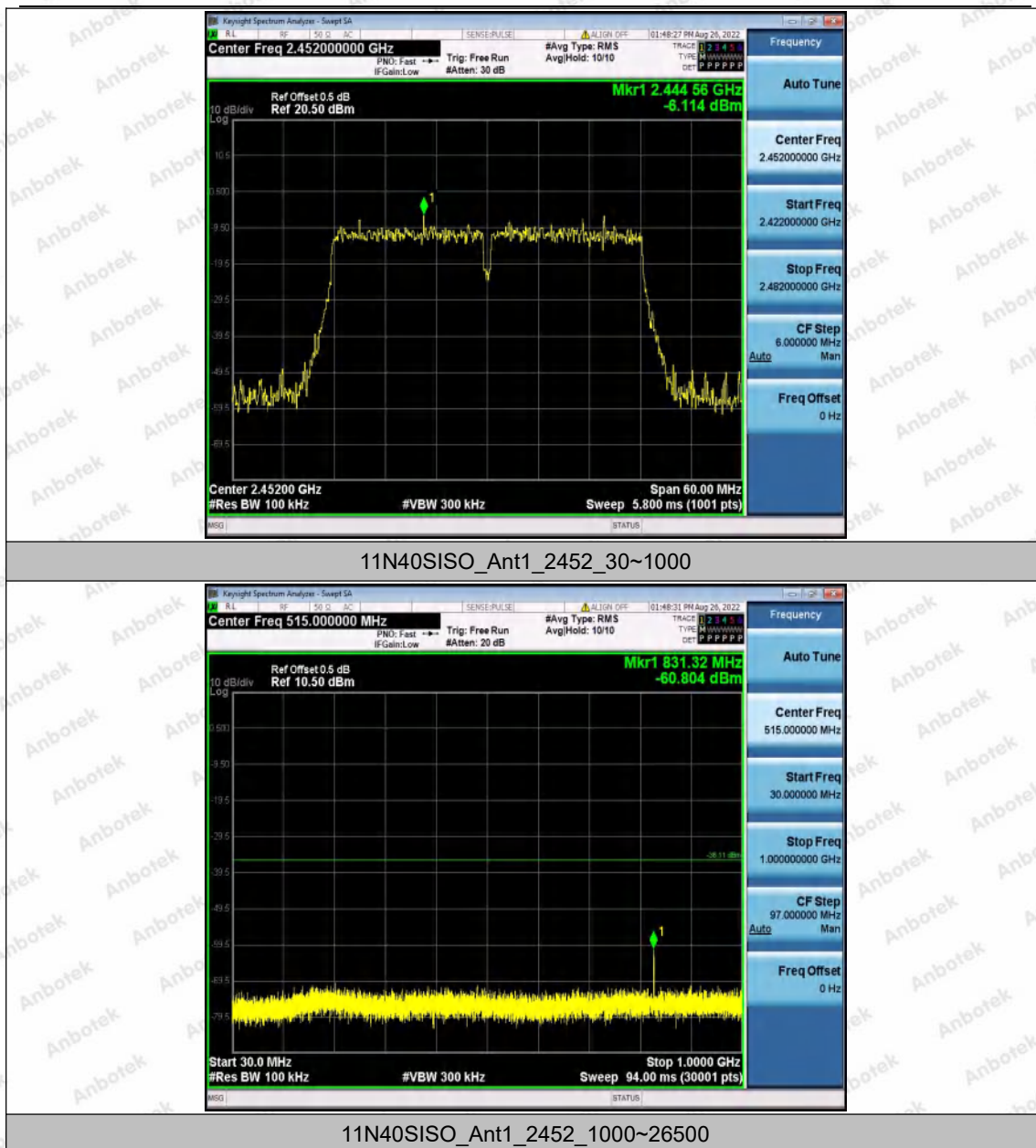
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11N40SISO_Ant2_2437_30~1000







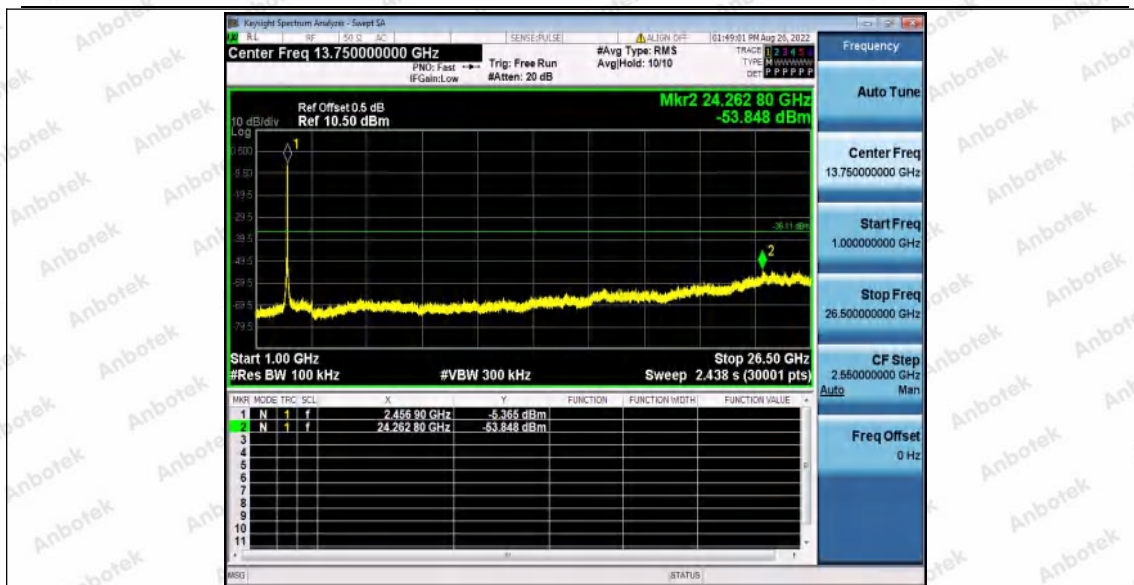
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11N40SISO_Ant2_2452_0~Reference



11N40SISO_Ant2_2452_30~1000

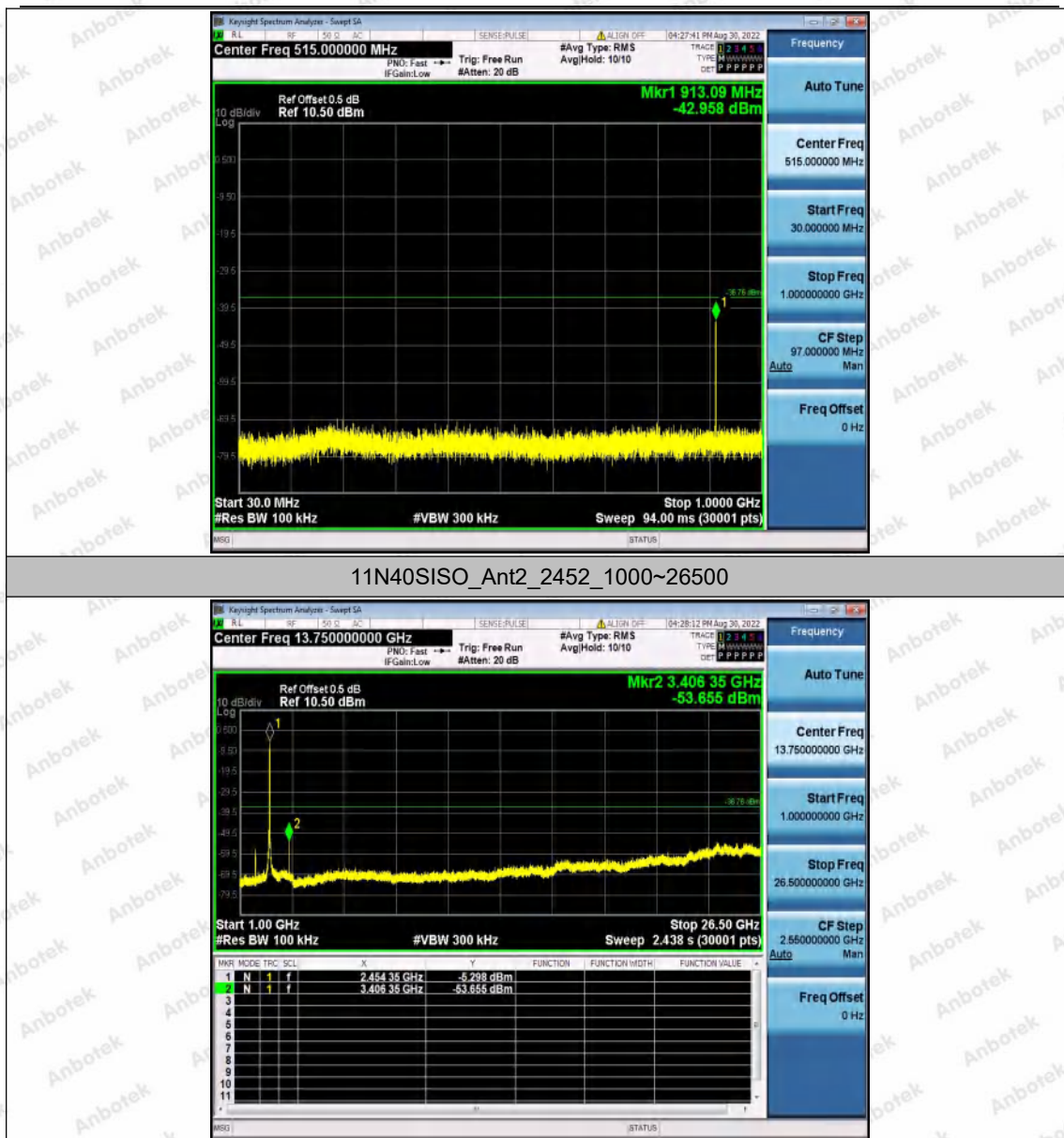
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Appendix G: Duty Cycle

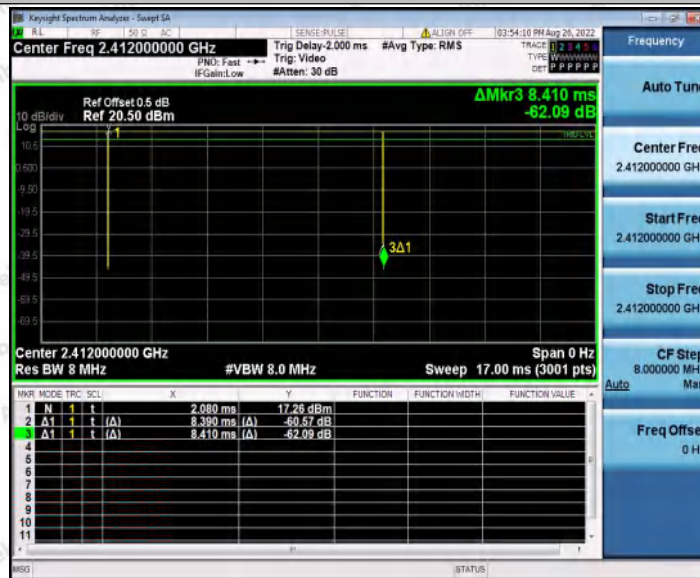
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.41	99.76	0.01
	Ant2	2412	8.38	8.41	99.64	0.02
	Ant1	2437	8.39	8.41	99.76	0.01
	Ant2	2437	8.38	8.42	99.52	0.02
	Ant1	2462	8.39	8.42	99.64	0.02
	Ant2	2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
	Ant2	2412	1.40	1.43	97.90	0.09
	Ant1	2437	1.39	1.42	97.89	0.09
	Ant2	2437	1.39	1.42	97.89	0.09
	Ant1	2462	1.39	1.43	97.20	0.12
	Ant2	2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
	Ant2	2412	1.29	1.33	96.99	0.13
	Ant1	2437	1.29	1.33	96.99	0.13
	Ant2	2437	1.30	1.34	97.01	0.13
	Ant1	2462	1.30	1.34	97.01	0.13
	Ant2	2462	1.30	1.34	97.01	0.13
11N40SISO	Ant1	2422	0.64	0.68	94.12	0.26
	Ant2	2422	0.65	0.68	95.59	0.20
	Ant1	2437	0.65	0.68	95.59	0.20
	Ant2	2437	0.65	0.68	95.59	0.20
	Ant1	2452	0.65	0.68	95.59	0.20
	Ant2	2452	0.64	0.68	94.12	0.26

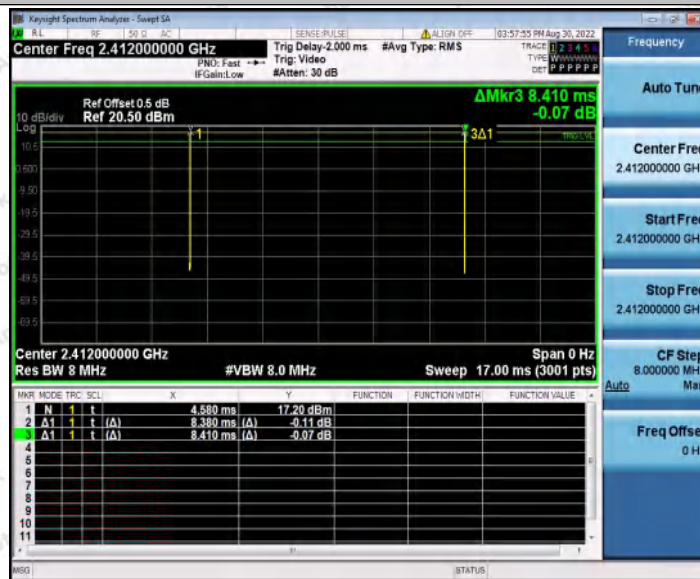


Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

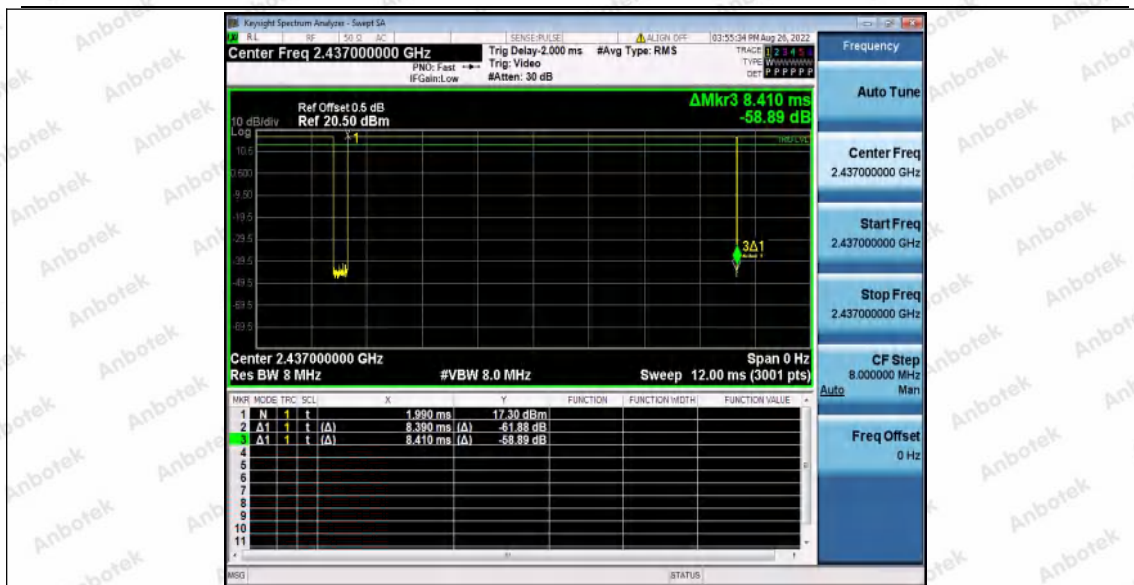
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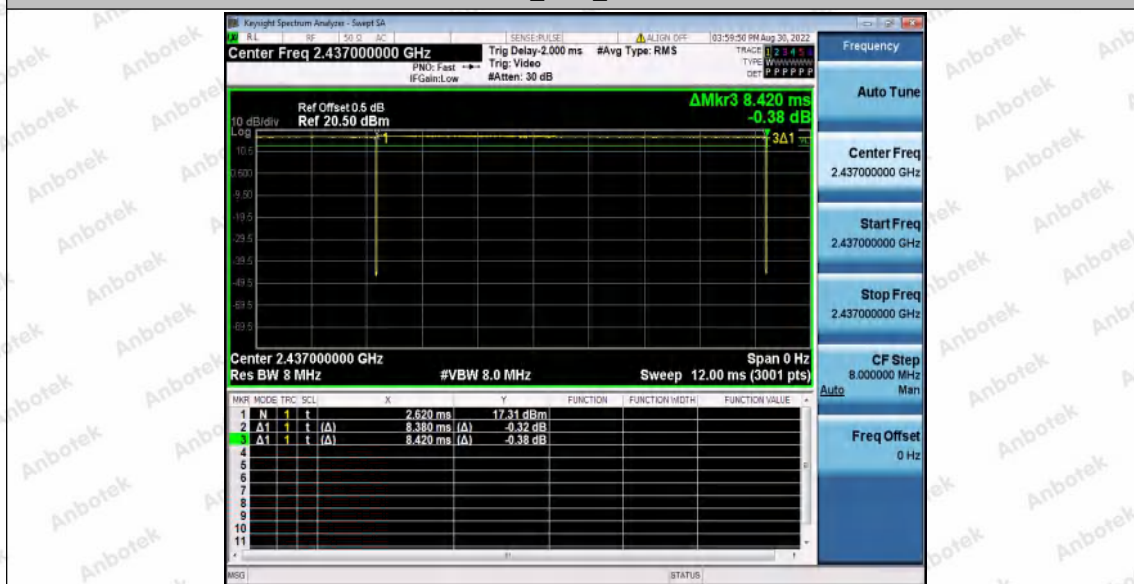


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11B_Ant2_2437



11B_Ant1_2462

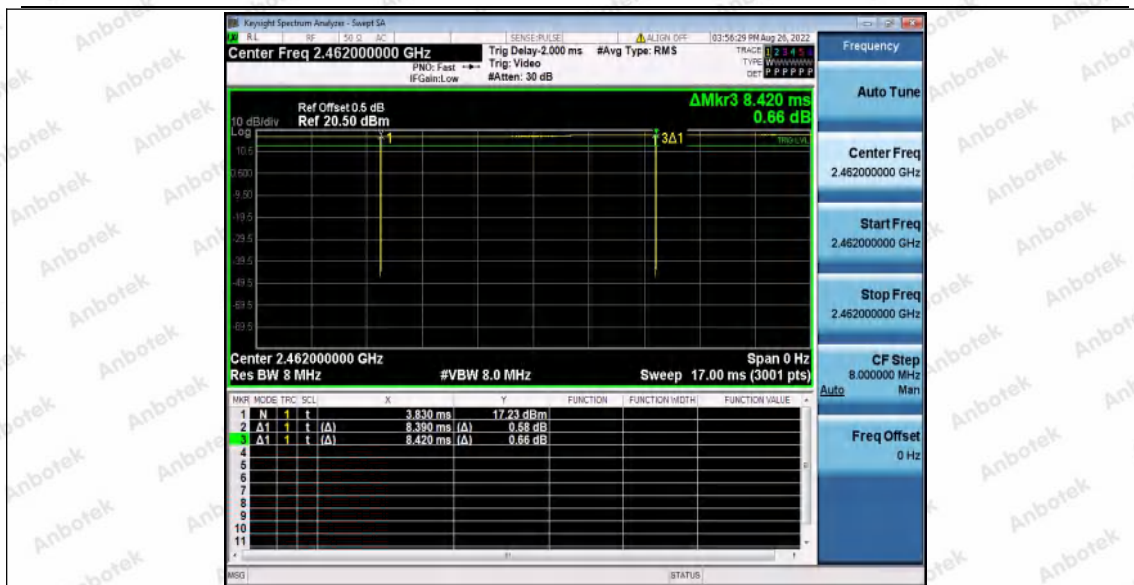
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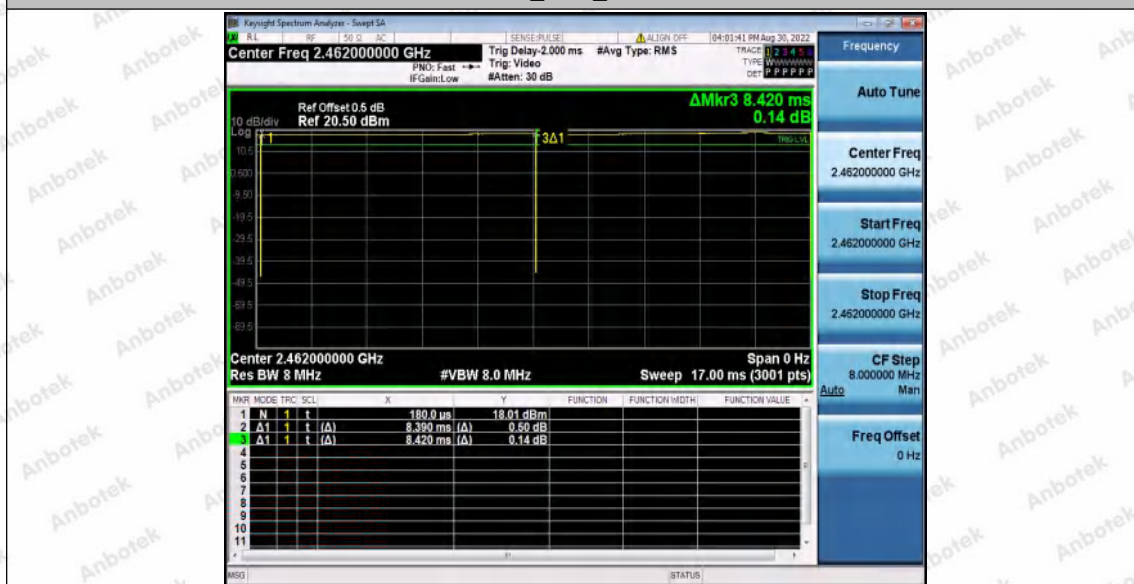


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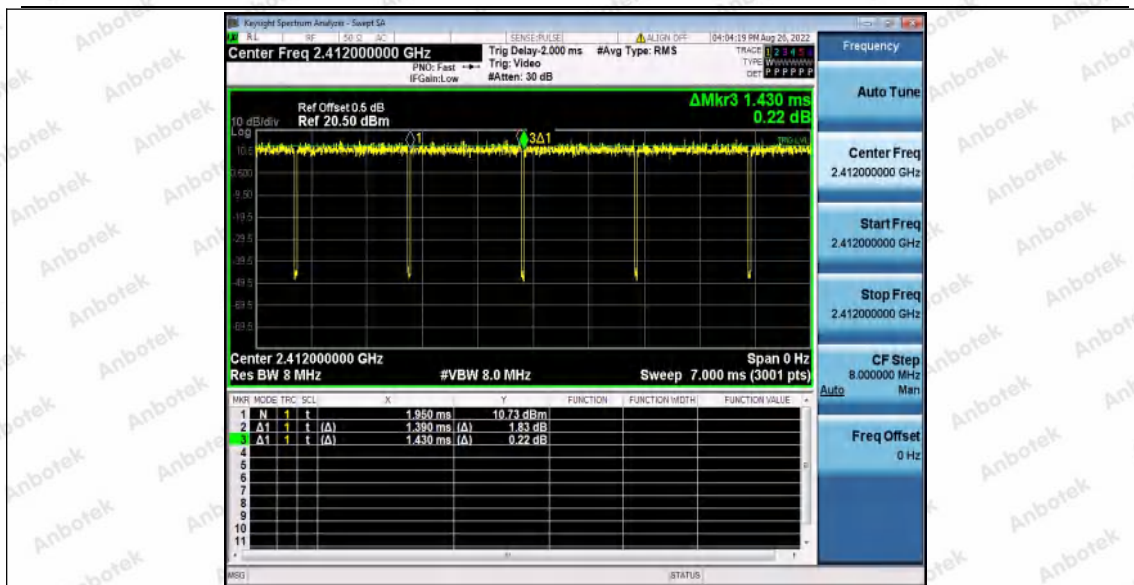


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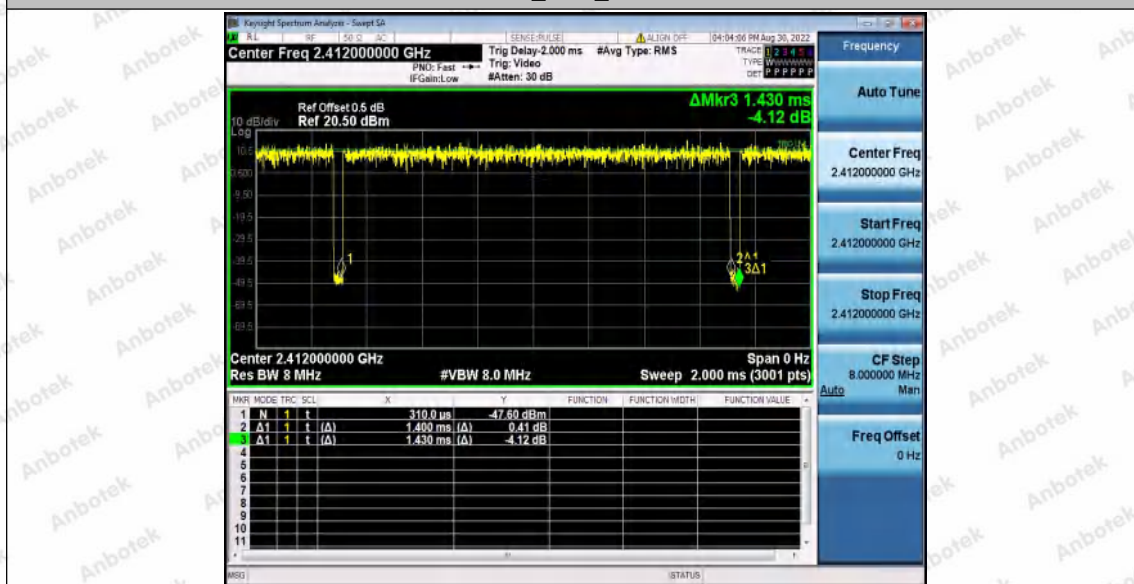


11G_Ant1_2412



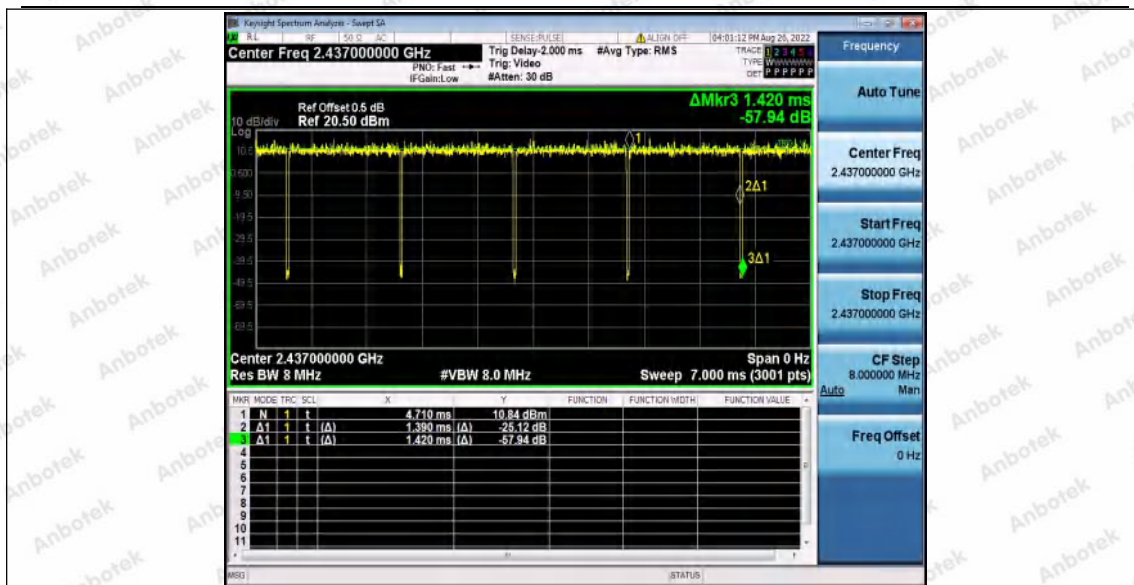


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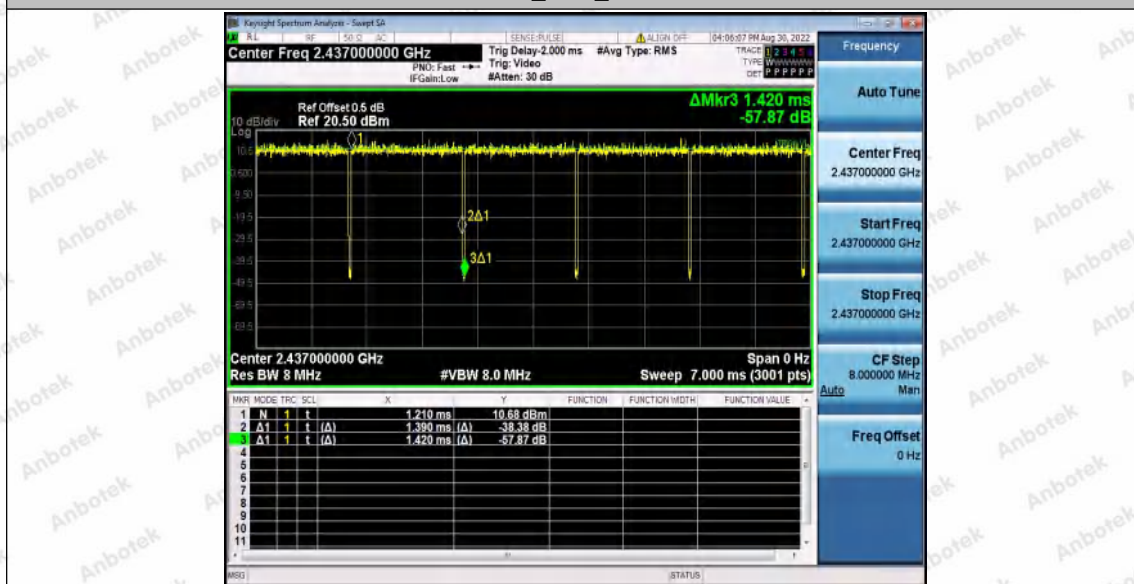


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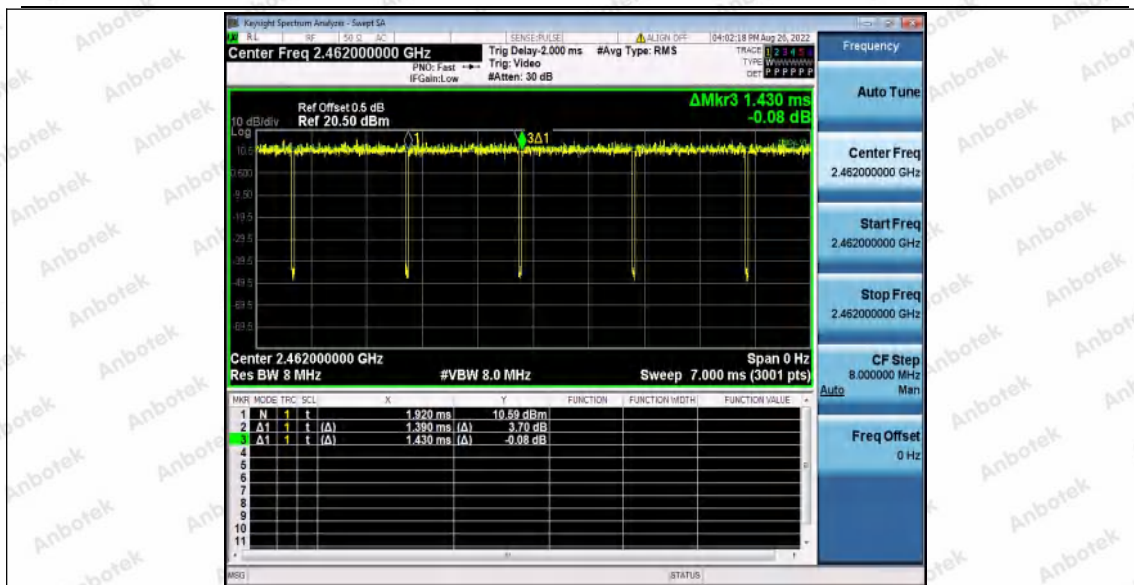


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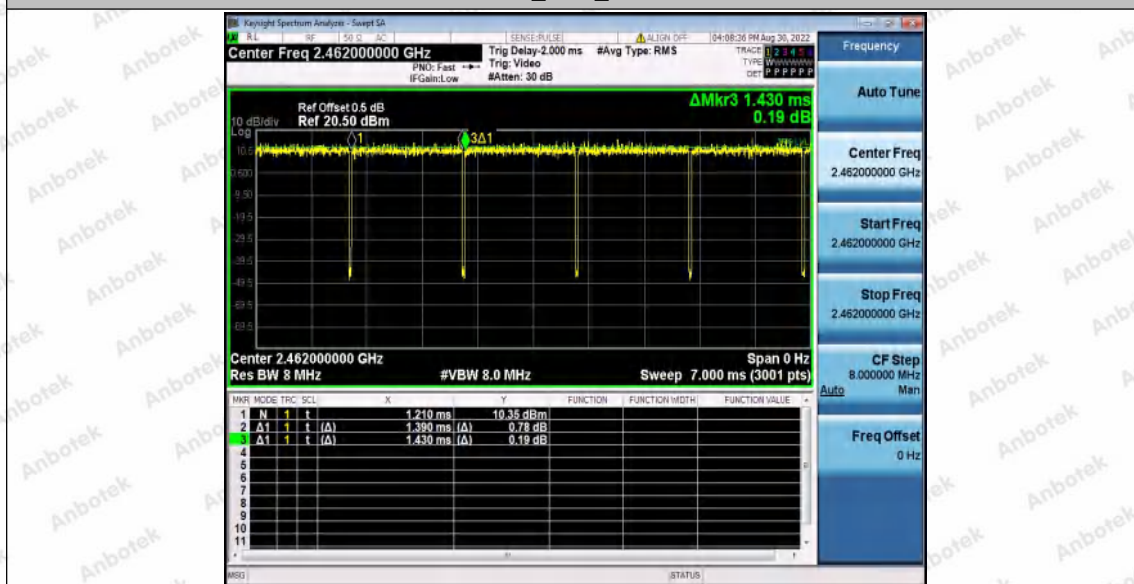


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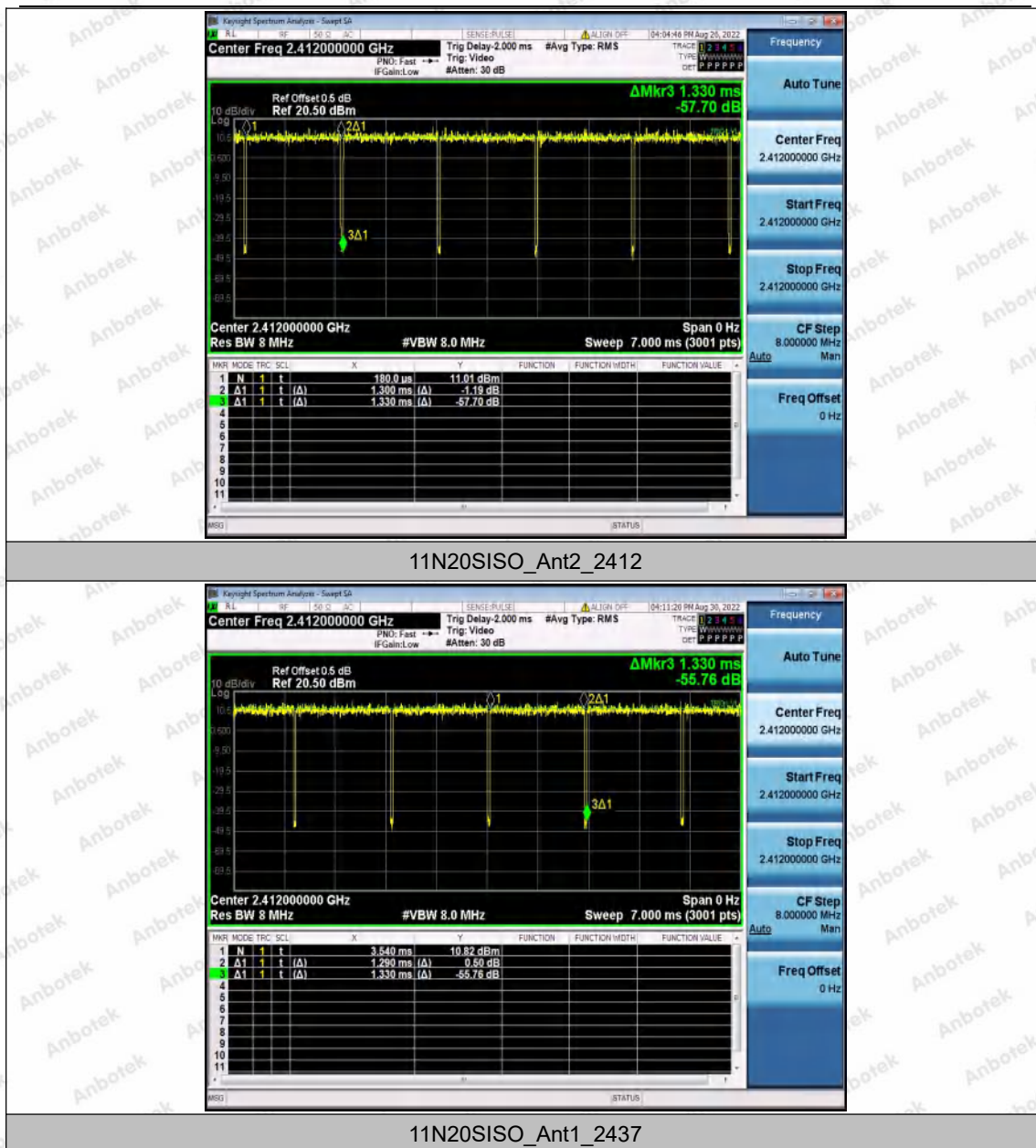


11G_Ant2_2462



11N20SISO_Ant1_2412



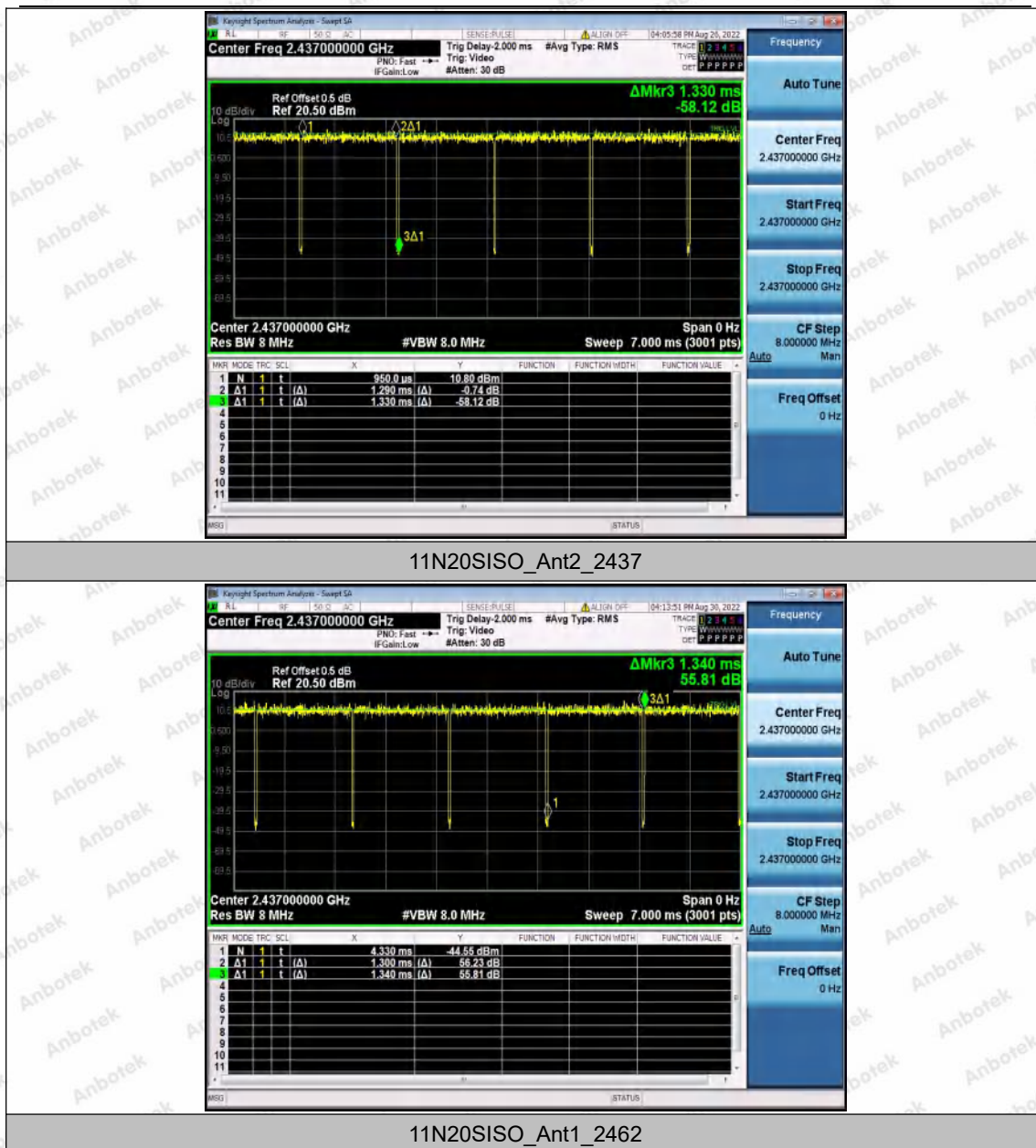


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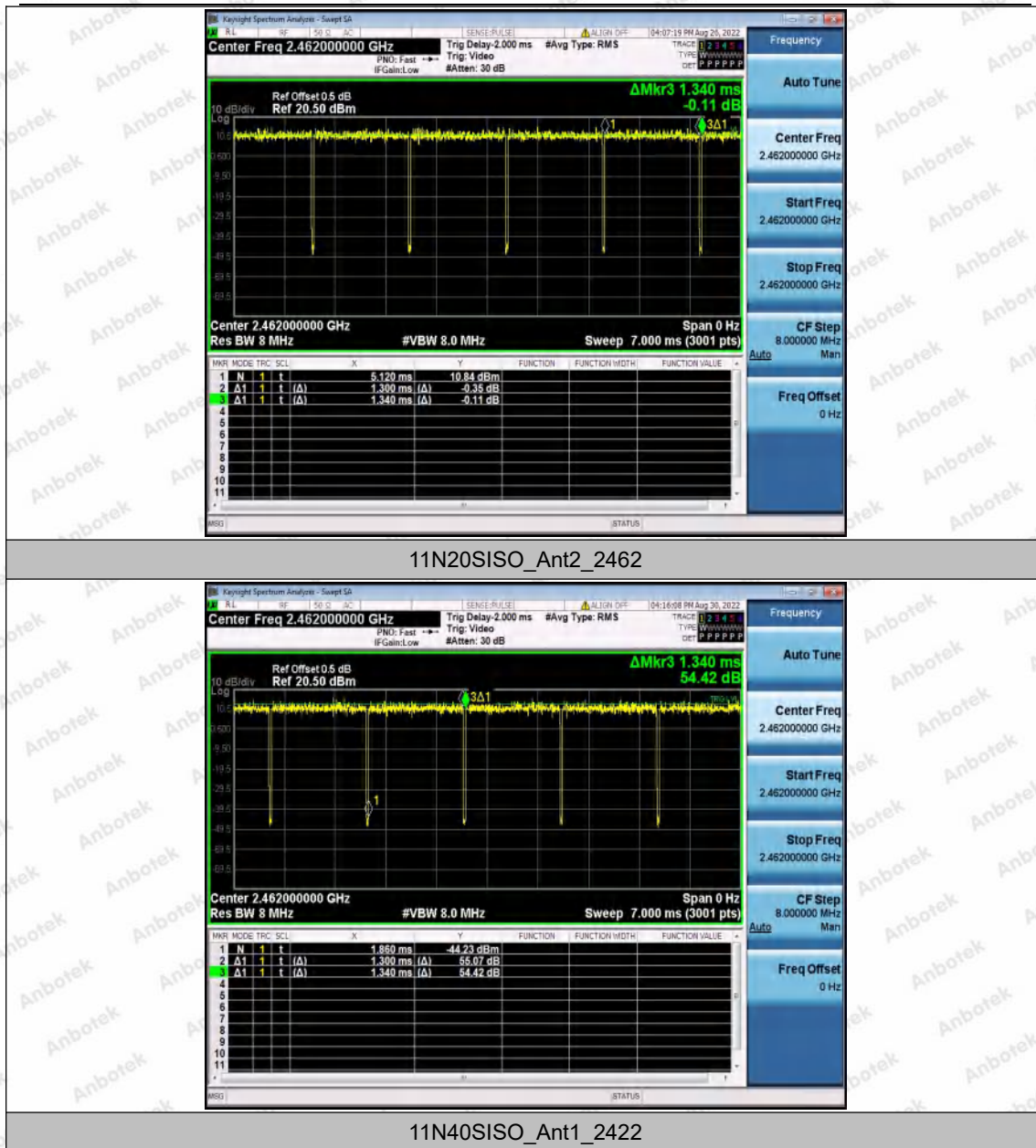


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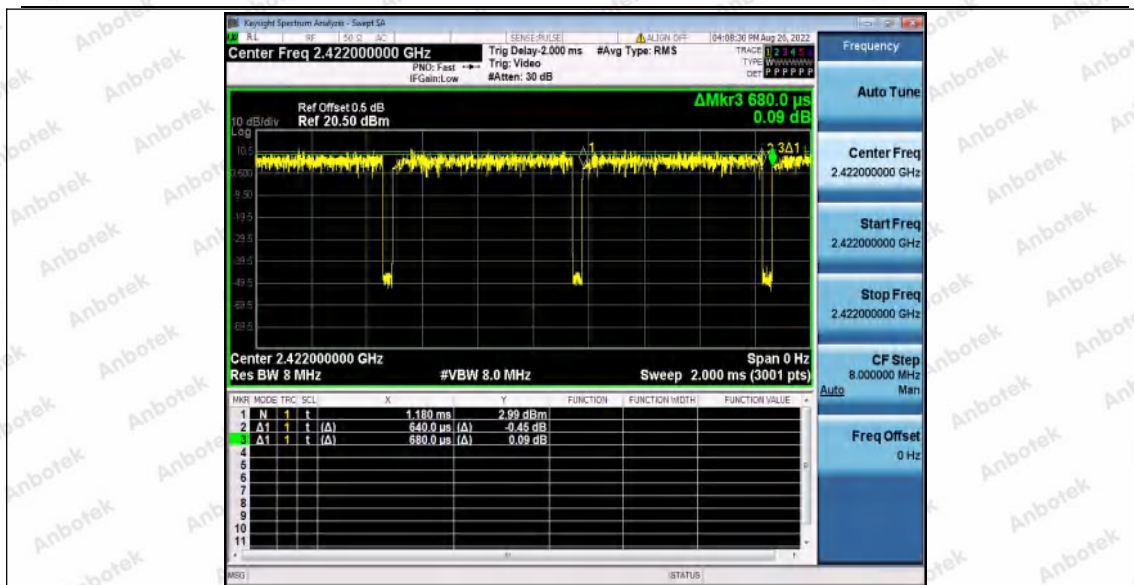
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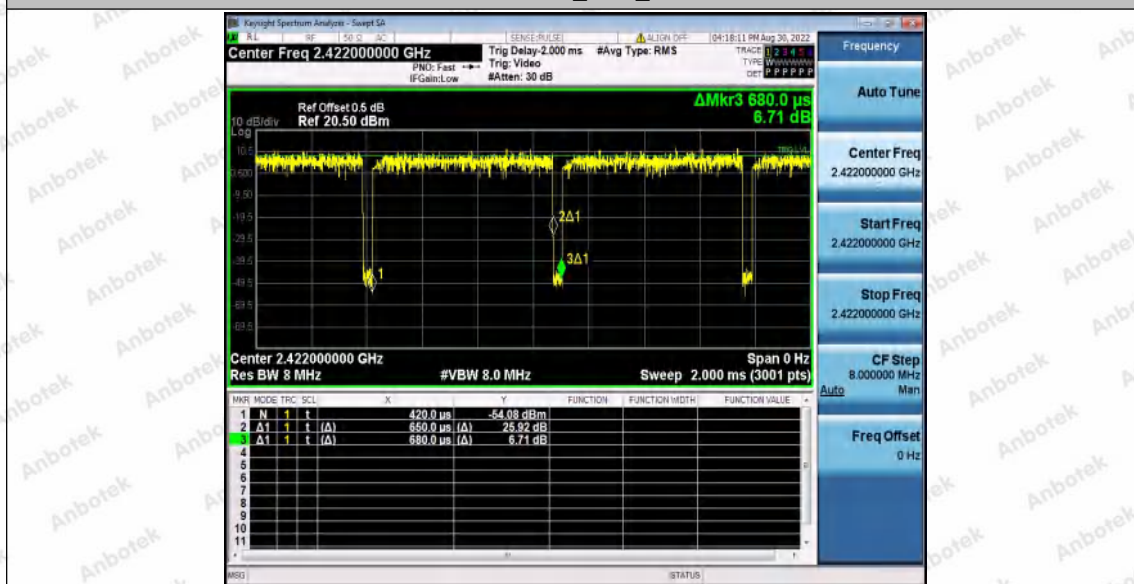


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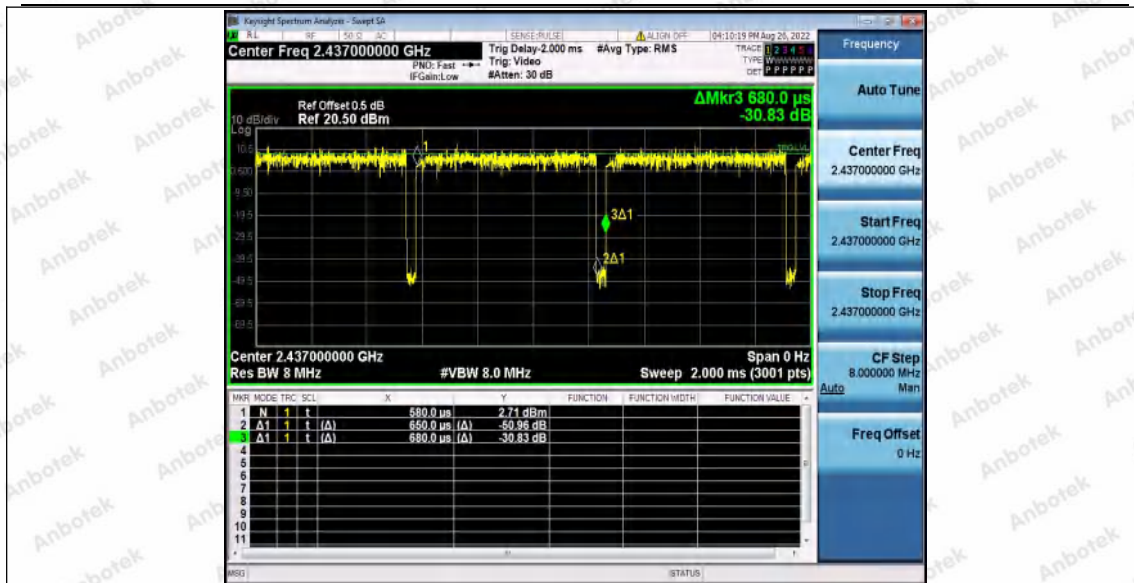


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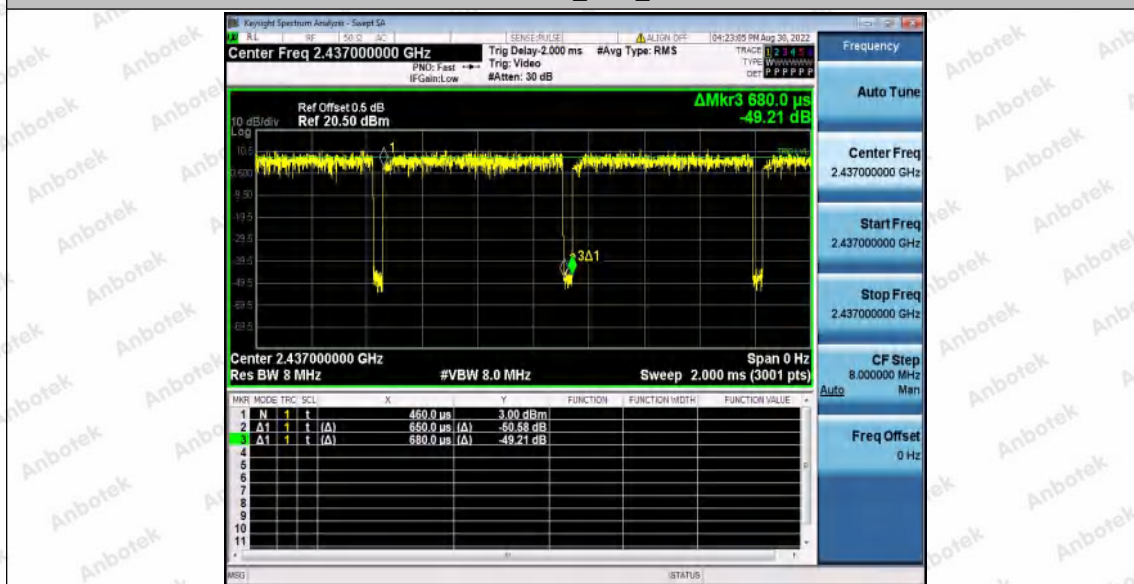


11N40SISO_Ant1_2437





11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

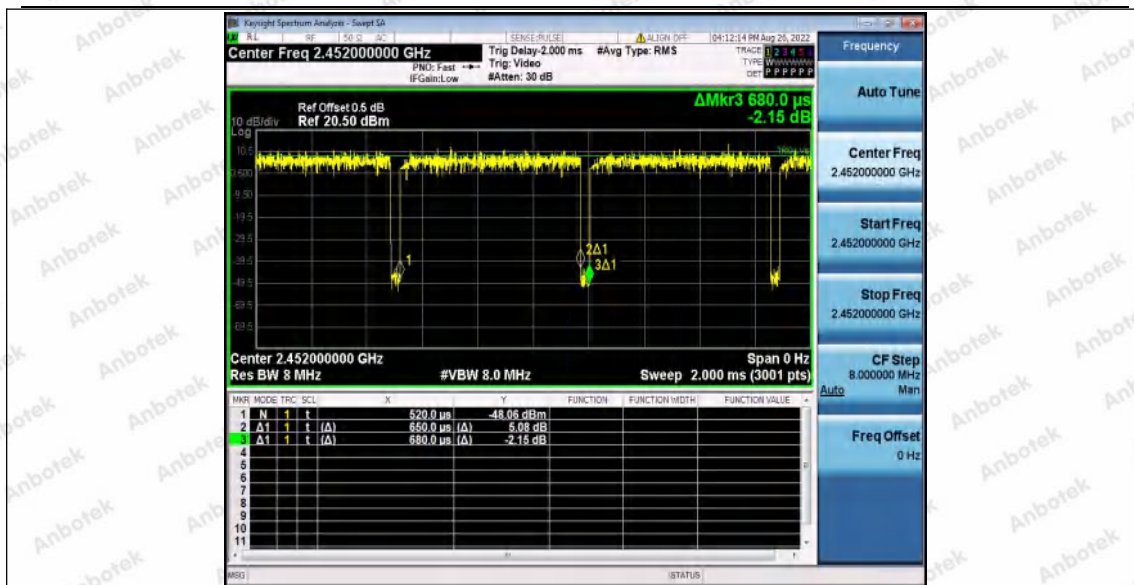
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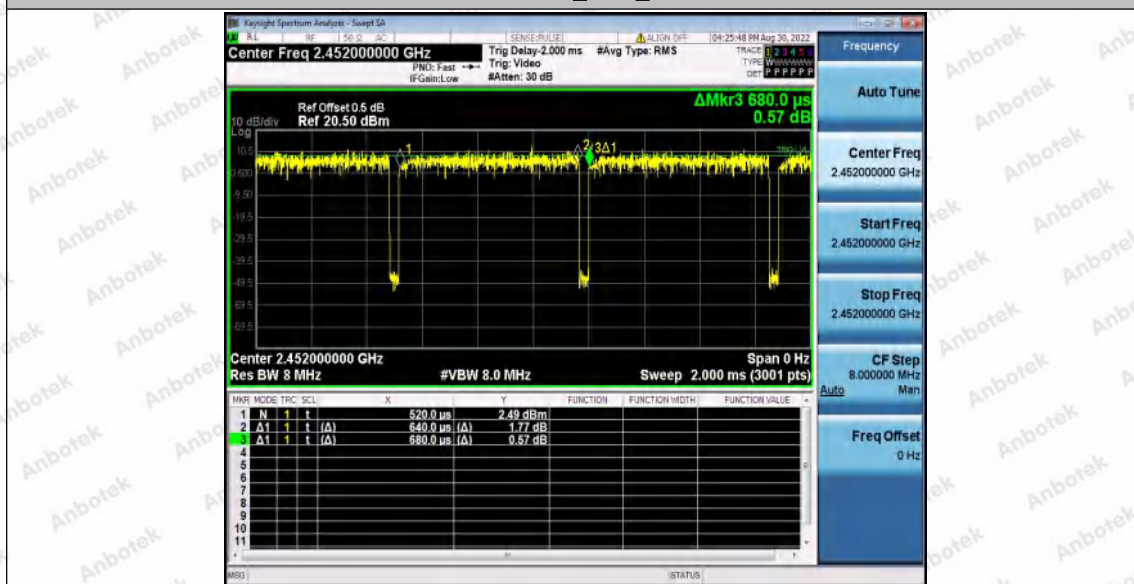


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11N40SISO_Ant2_2452



---End---

