

Appendix Test Data

Report No.:	18220WC40004202	Test Sample No.:	1-2-2
Start Test Date:	2024.1.17	Finish Test Date:	2024.1.18
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	46%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.520	2416.520	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.400	2403.200	2420.600	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.000	2403.840	2439.840	0.5	PASS
		2437	36.320	2418.840	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS
11AX20SISO	Ant1	2412	19.040	2402.480	2421.520	0.5	PASS
		2437	18.920	2427.560	2446.480	0.5	PASS
		2462	19.000	2452.520	2471.520	0.5	PASS
11AX40SISO	Ant1	2422	37.680	2403.120	2440.800	0.5	PASS
		2437	38.000	2418.040	2456.040	0.5	PASS
		2452	37.840	2433.040	2470.880	0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2462



11N20SISO_Ant1_2412

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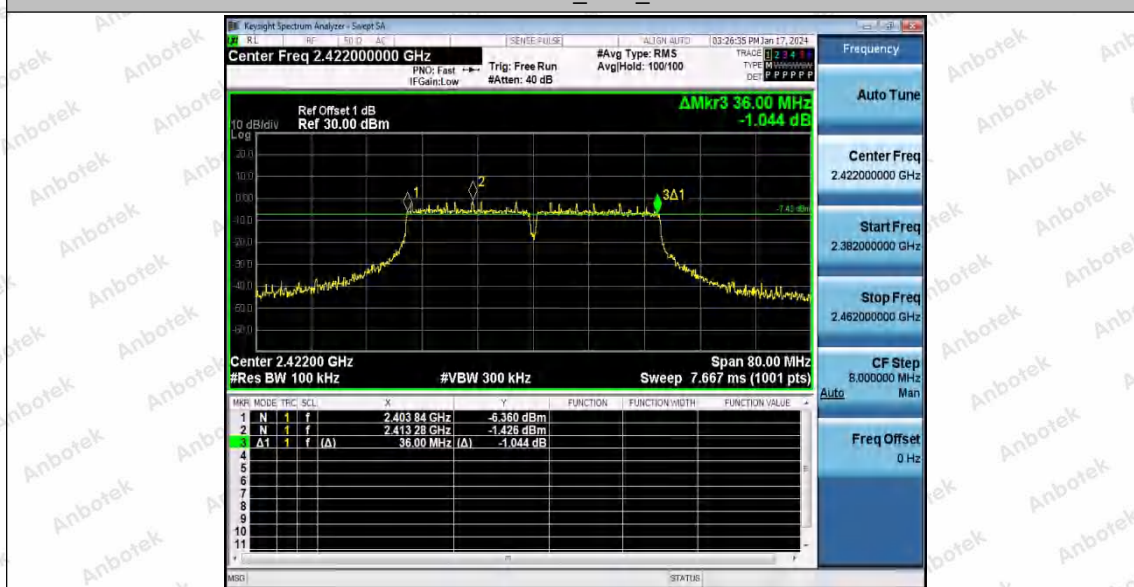


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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

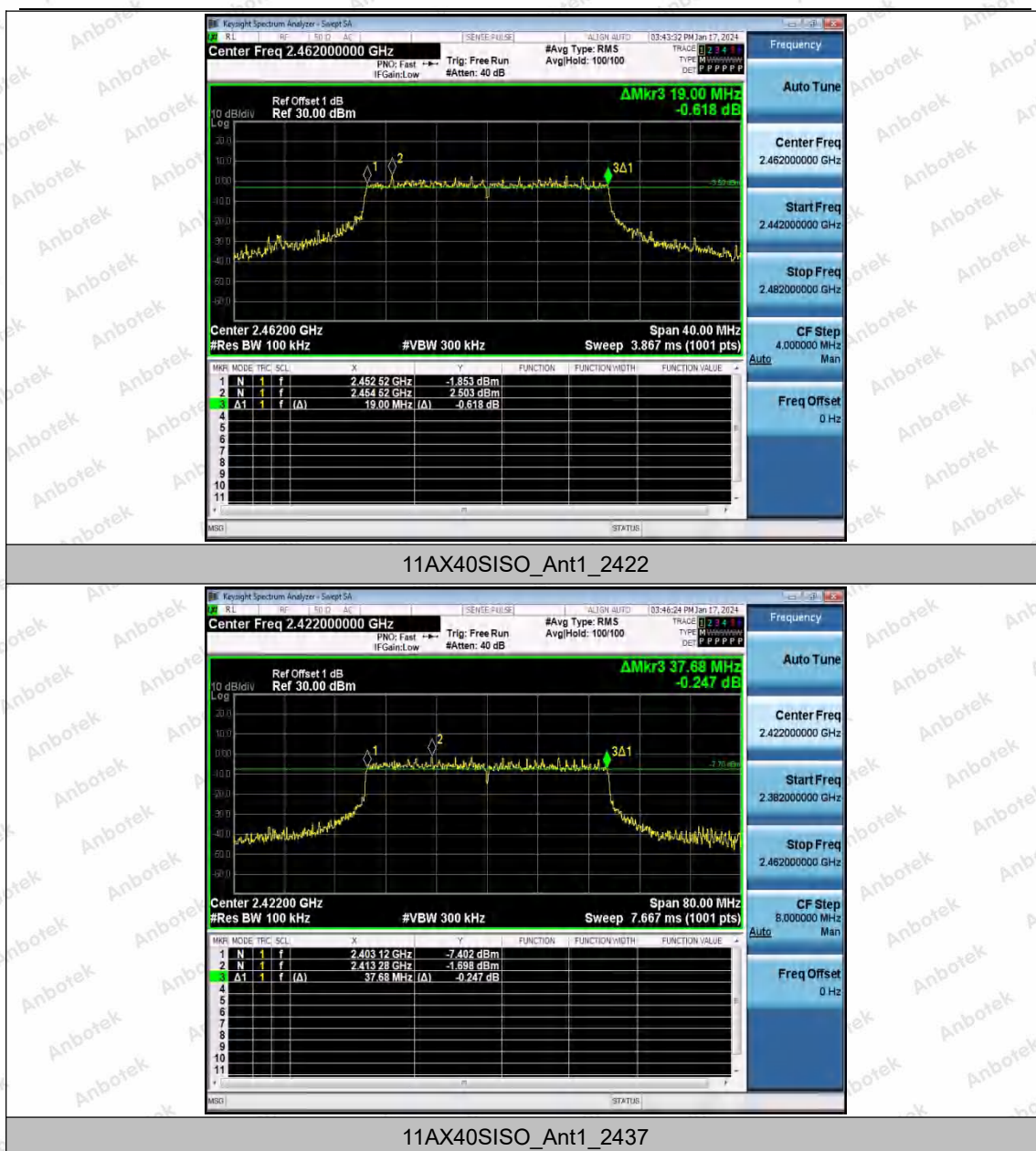
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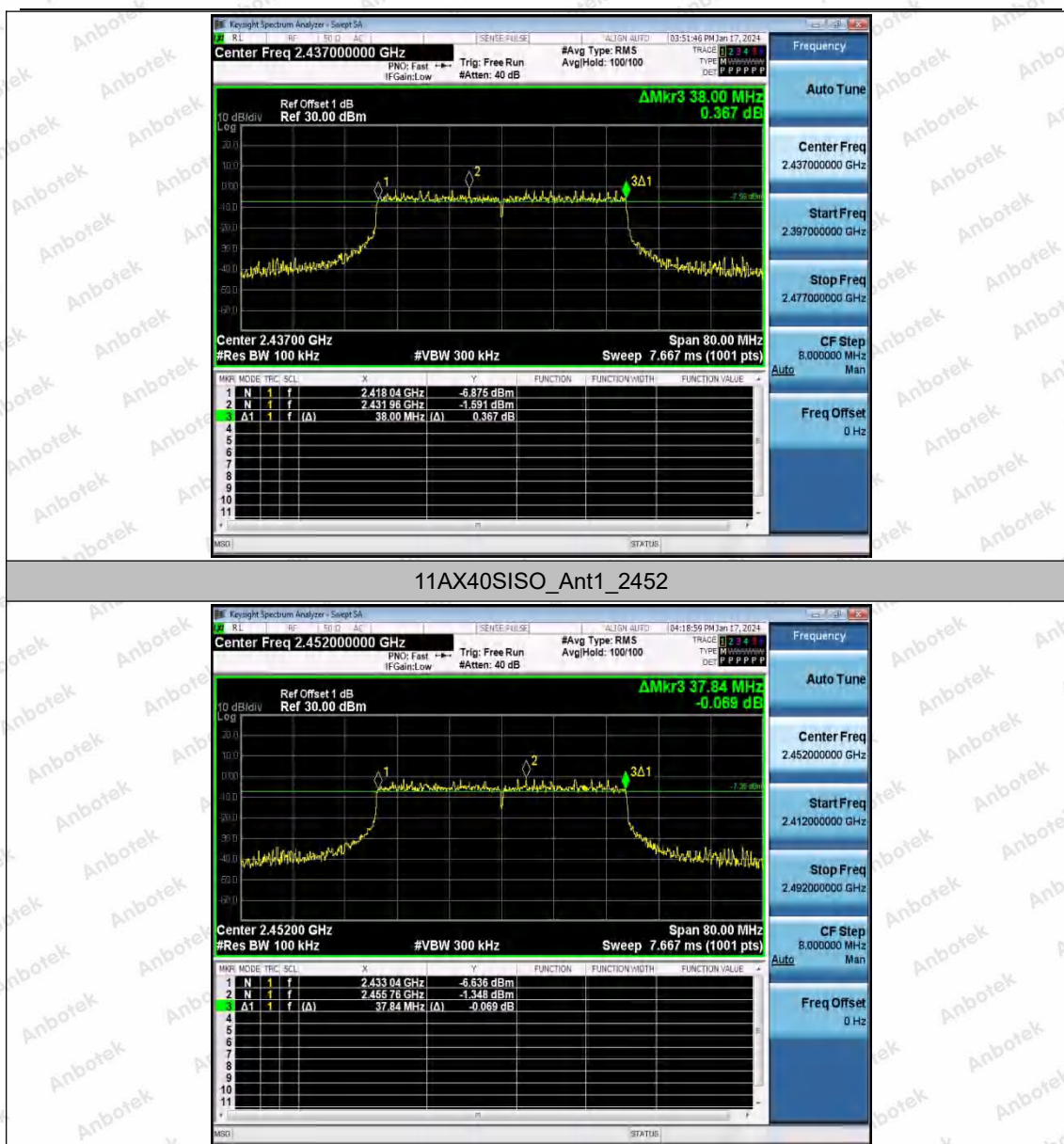
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.309	2405.8625	2418.1715	---	---
		2437	12.434	2430.8096	2443.2436	---	---
		2462	12.556	2455.7532	2468.3092	---	---
11G	Ant1	2412	17.774	2402.9864	2420.7604	---	---
		2437	17.694	2428.0431	2445.7371	---	---
		2462	17.600	2453.1726	2470.7726	---	---
11N20SISO	Ant1	2412	18.752	2402.6035	2421.3555	---	---
		2437	18.869	2427.5403	2446.4093	---	---
		2462	18.762	2452.5790	2471.3410	---	---
11N40SISO	Ant1	2422	37.368	2403.2442	2440.6122	---	---
		2437	37.222	2418.2980	2455.5200	---	---
		2452	37.126	2433.4200	2470.5460	---	---
11AX20SISO	Ant1	2412	19.464	2402.2596	2421.7236	---	---
		2437	19.565	2427.2339	2446.7989	---	---
		2462	19.603	2452.1942	2471.7972	---	---
11AX40SISO	Ant1	2422	38.335	2402.8495	2441.1845	---	---
		2437	38.259	2417.9089	2456.1679	---	---
		2452	38.133	2432.9623	2471.0953	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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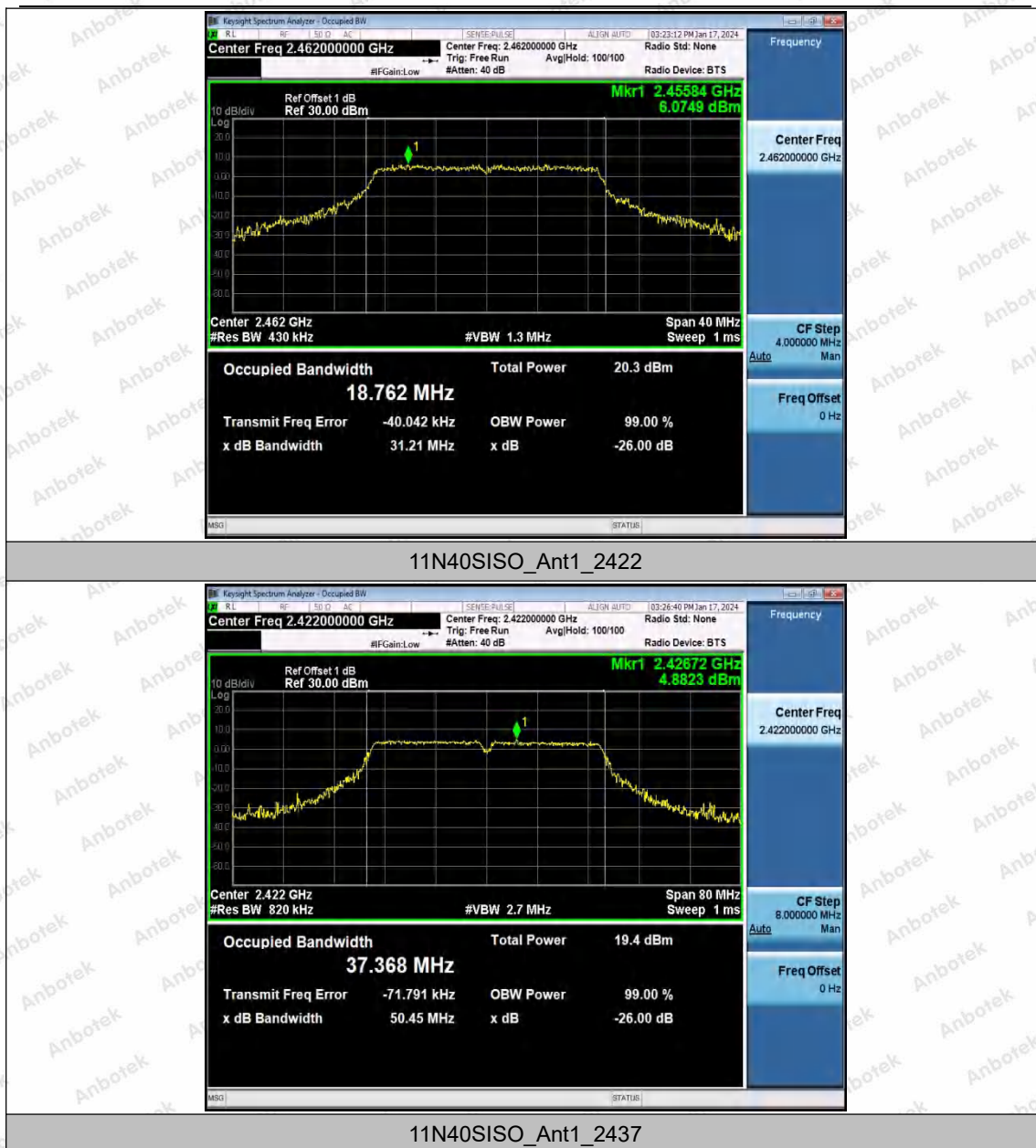
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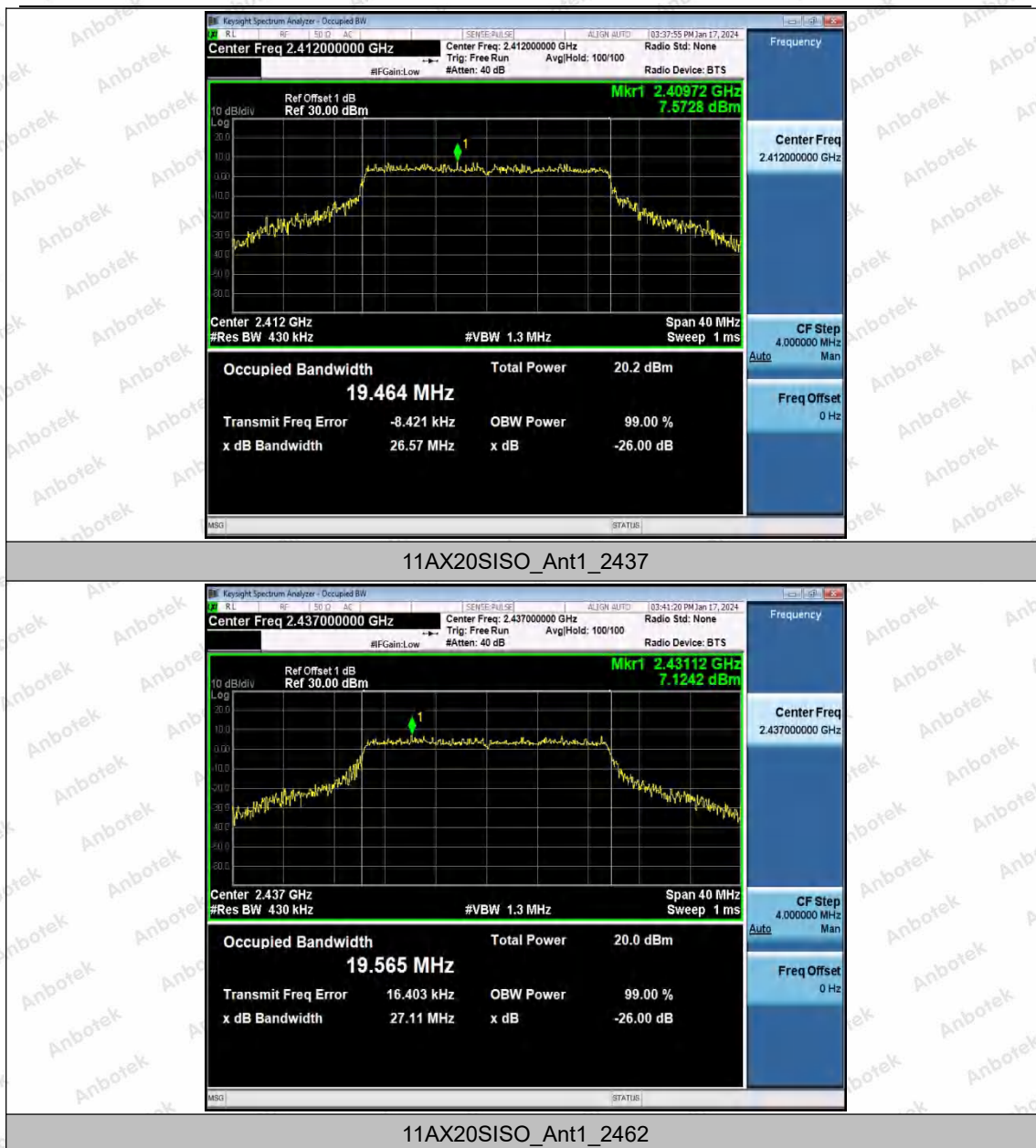


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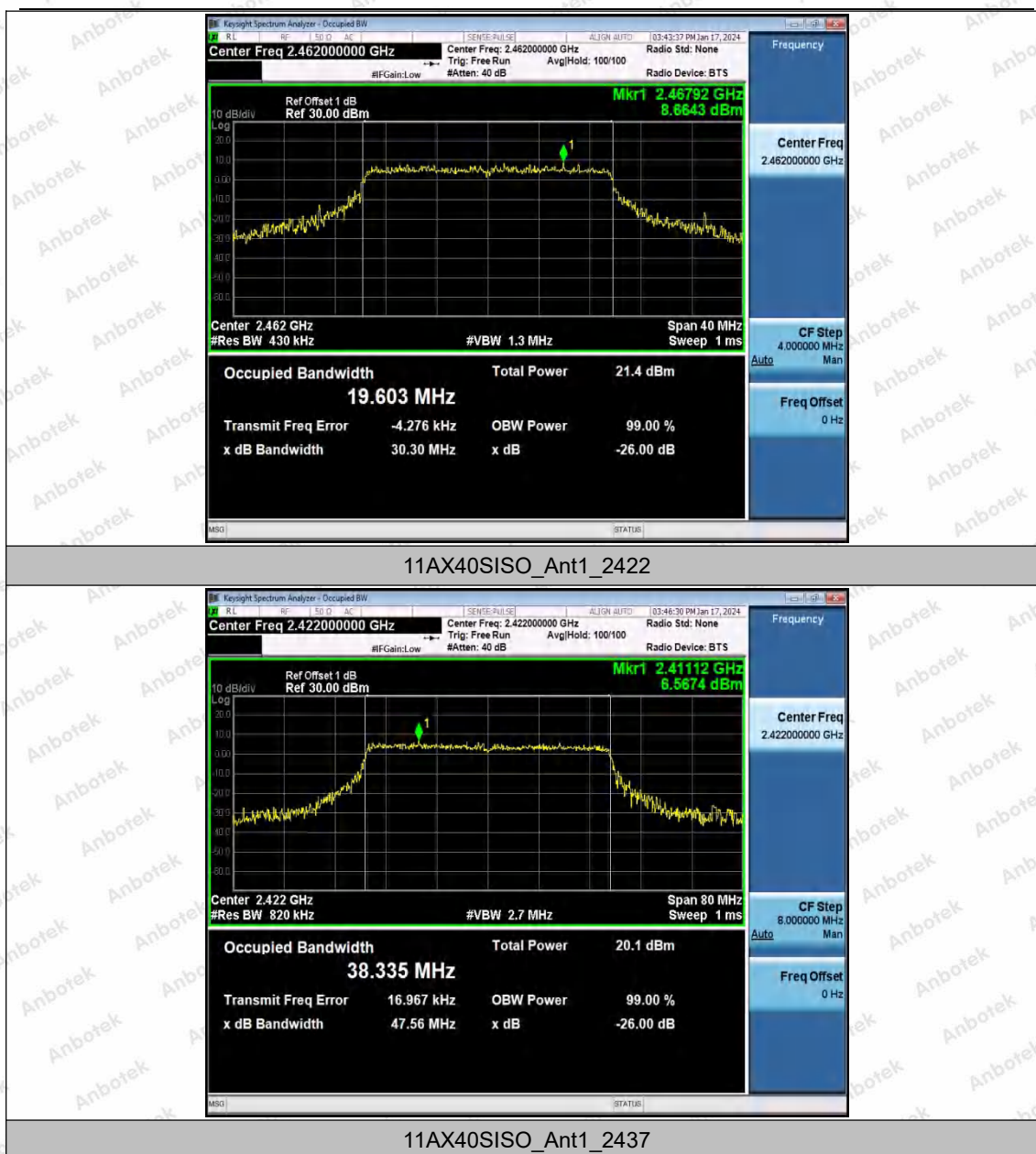
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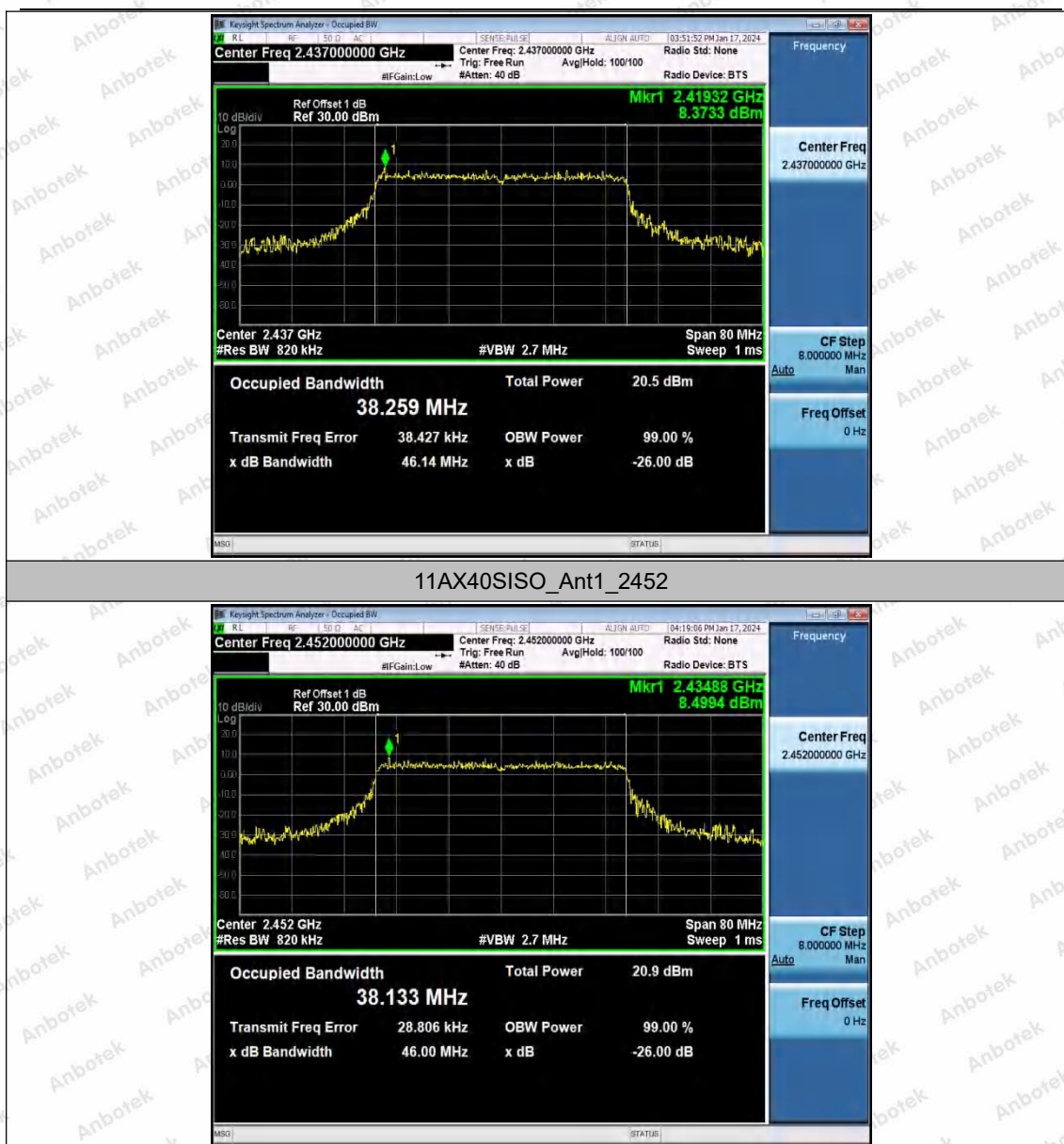
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Appendix C: Maximum conducted output power

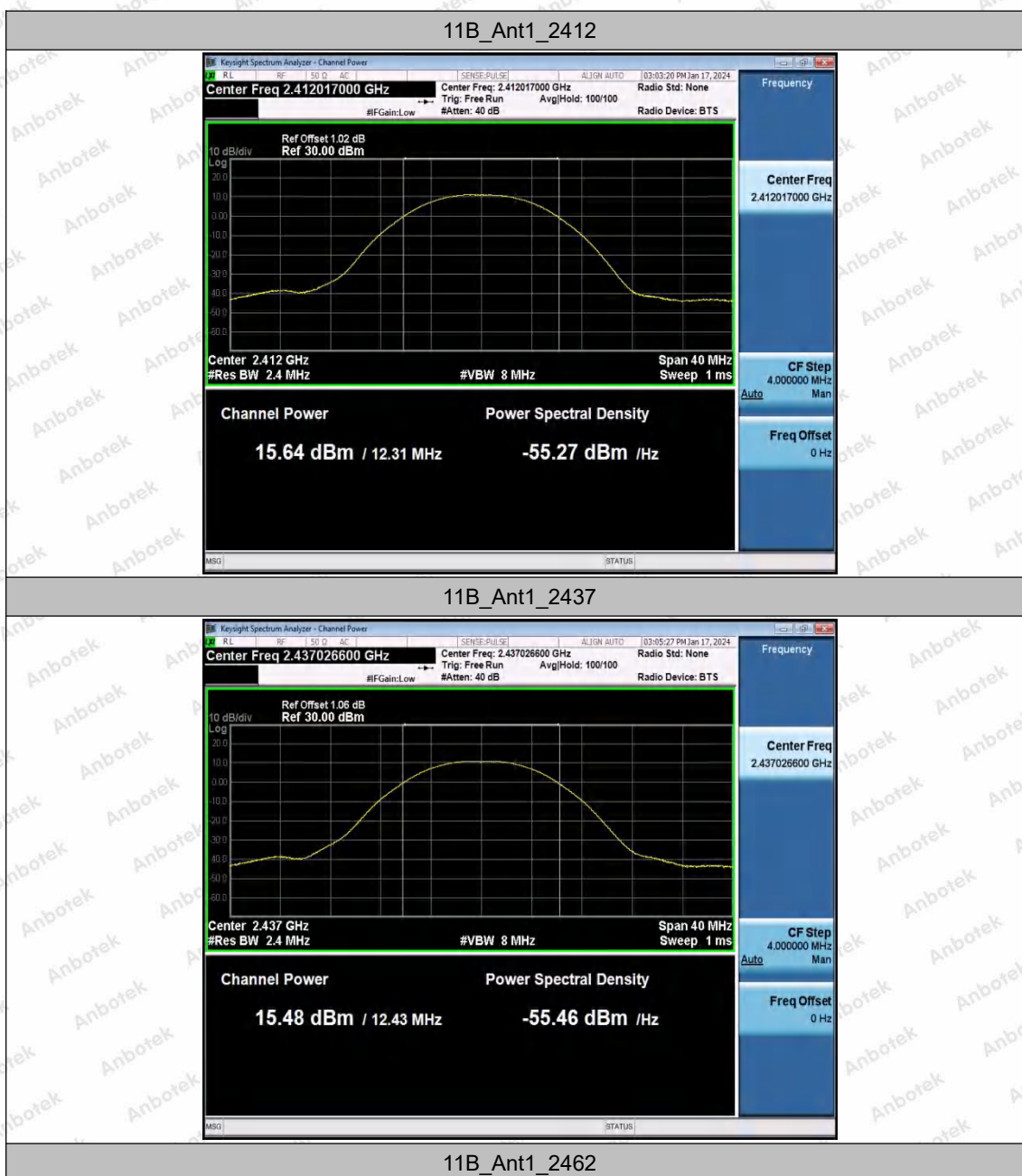
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.64	≤30.00
		2437	15.48	≤30.00
		2462	17.47	≤30.00
11G	Ant1	2412	12.45	≤30.00
		2437	12.99	≤30.00
		2462	13.91	≤30.00
11N20SISO	Ant1	2412	12.98	≤30.00
		2437	12.85	≤30.00
		2462	14.31	≤30.00
11N40SISO	Ant1	2422	12.07	≤30.00
		2437	13.12	≤30.00
		2452	12.82	≤30.00
11AX20SISO	Ant1	2412	12.97	≤30.00
		2437	12.83	≤30.00
		2462	13.56	≤30.00
11AX40SISO	Ant1	2422	12.42	≤30.00
		2437	12.74	≤30.00
		2452	12.97	≤30.00

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



Test Graphs



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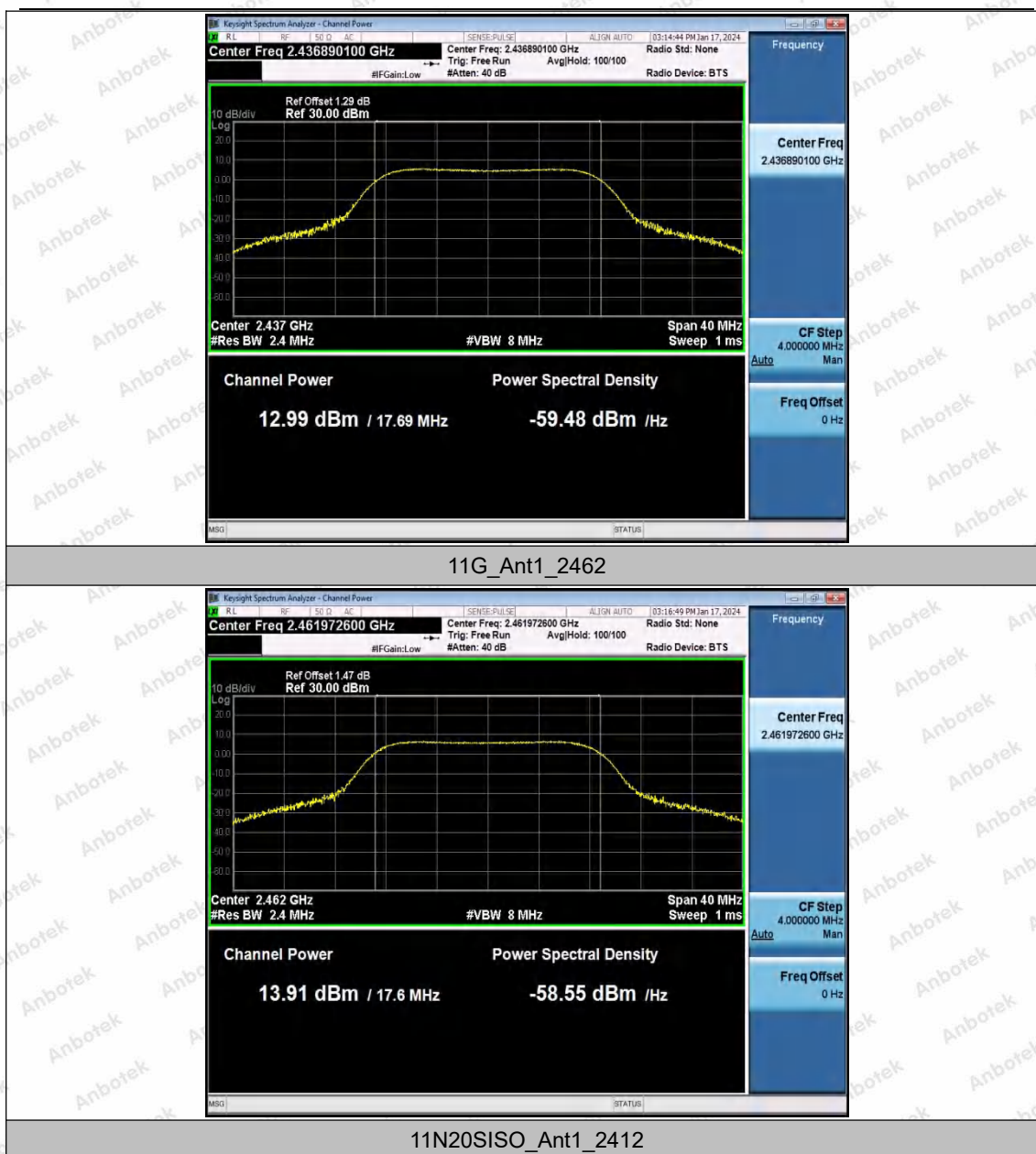
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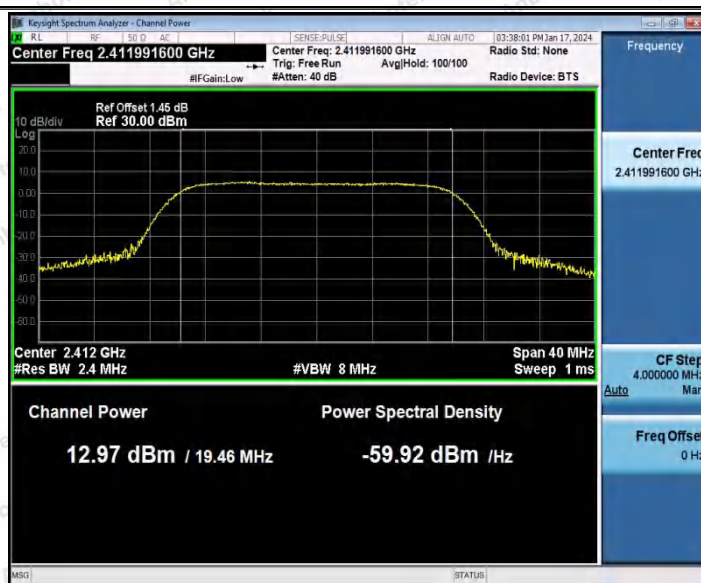
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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

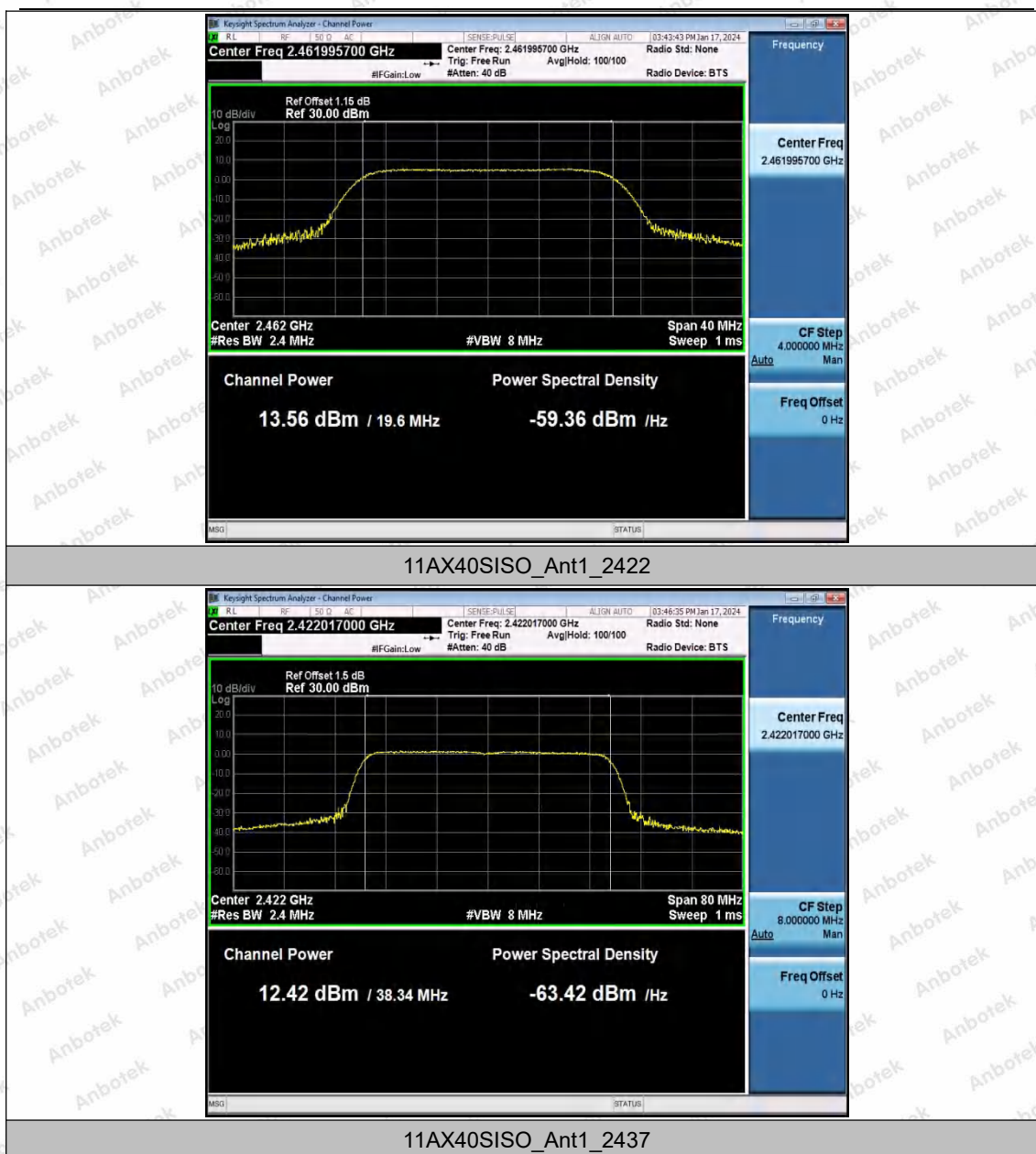
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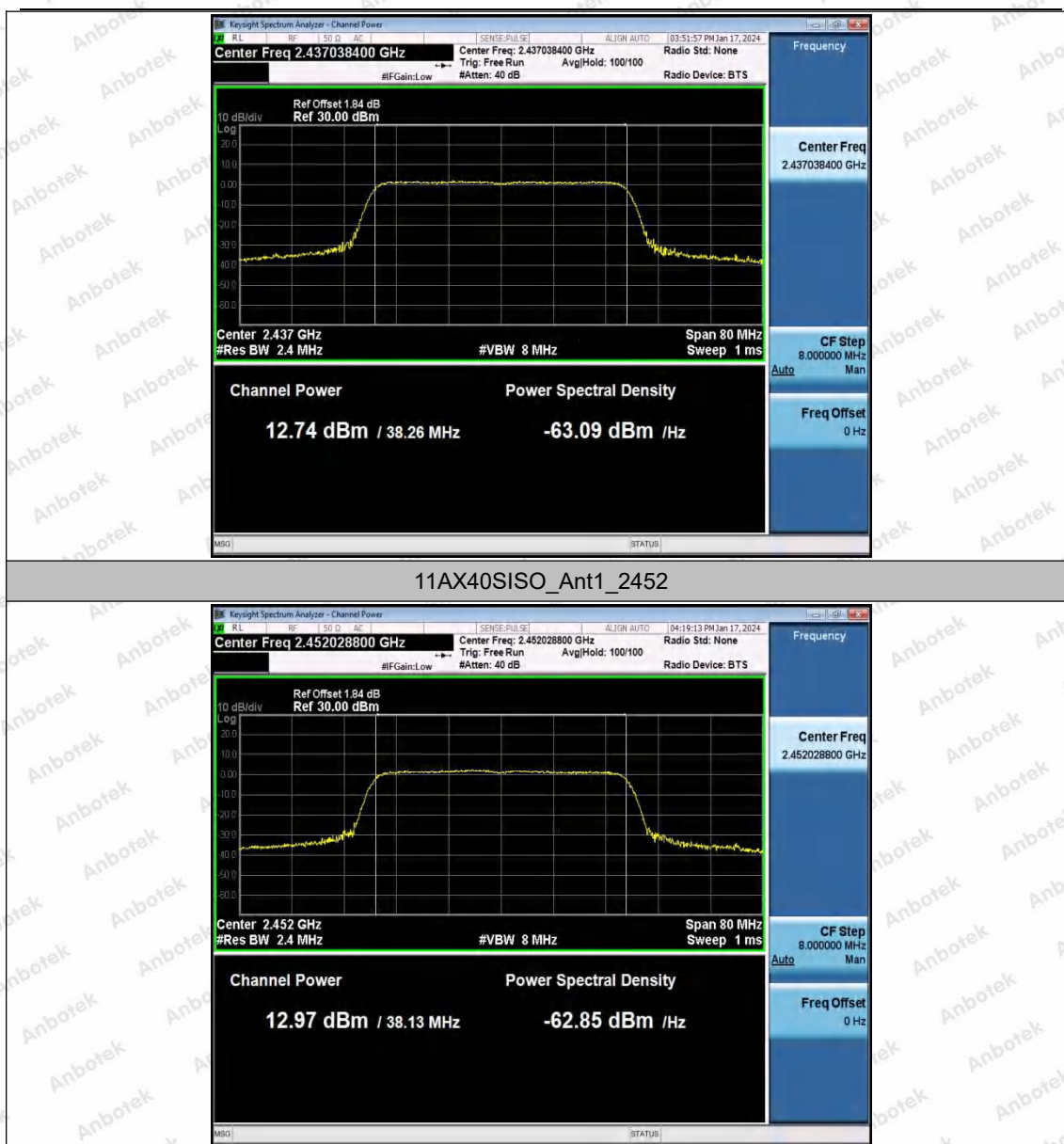
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.35	-15.35	≤8.00	PASS
		2437	-5.34	-15.34	≤8.00	PASS
		2462	-3.59	-13.59	≤8.00	PASS
11G	Ant1	2412	-11.51	-21.51	≤8.00	PASS
		2437	-11.03	-21.03	≤8.00	PASS
		2462	-10.15	-20.15	≤8.00	PASS
11N20SISO	Ant1	2412	-11.19	-21.19	≤8.00	PASS
		2437	-11.17	-21.17	≤8.00	PASS
		2462	-9.57	-19.57	≤8.00	PASS
11N40SISO	Ant1	2422	-14.94	-24.94	≤8.00	PASS
		2437	-14.22	-24.22	≤8.00	PASS
		2452	-14.4	-24.40	≤8.00	PASS
11AX20SISO	Ant1	2412	-12.89	-22.89	≤8.00	PASS
		2437	-12.49	-22.49	≤8.00	PASS
		2462	-11.89	-21.89	≤8.00	PASS
11AX40SISO	Ant1	2422	-15.74	-25.74	≤8.00	PASS
		2437	-15.18	-25.18	≤8.00	PASS
		2452	-14.99	-24.99	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

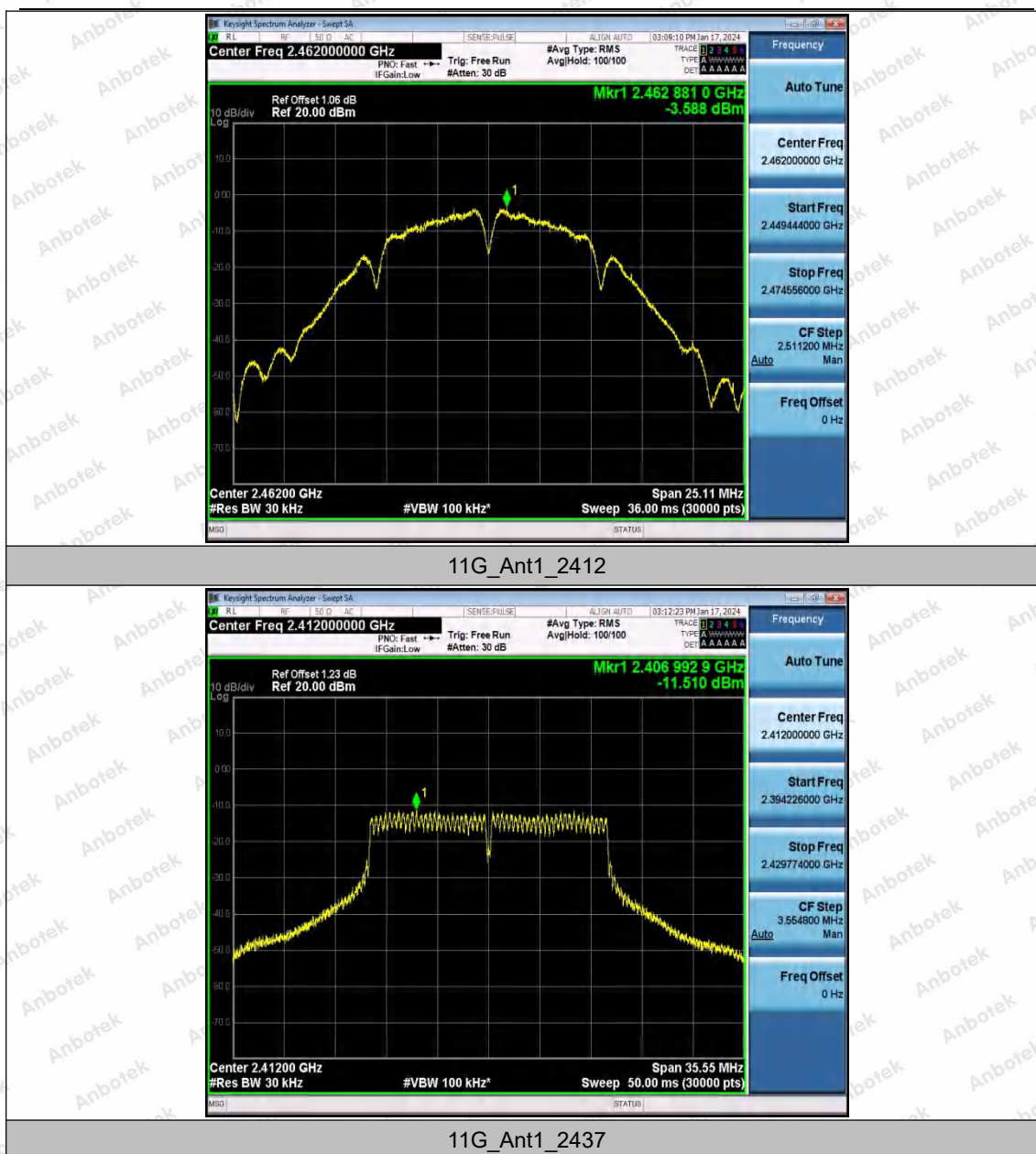
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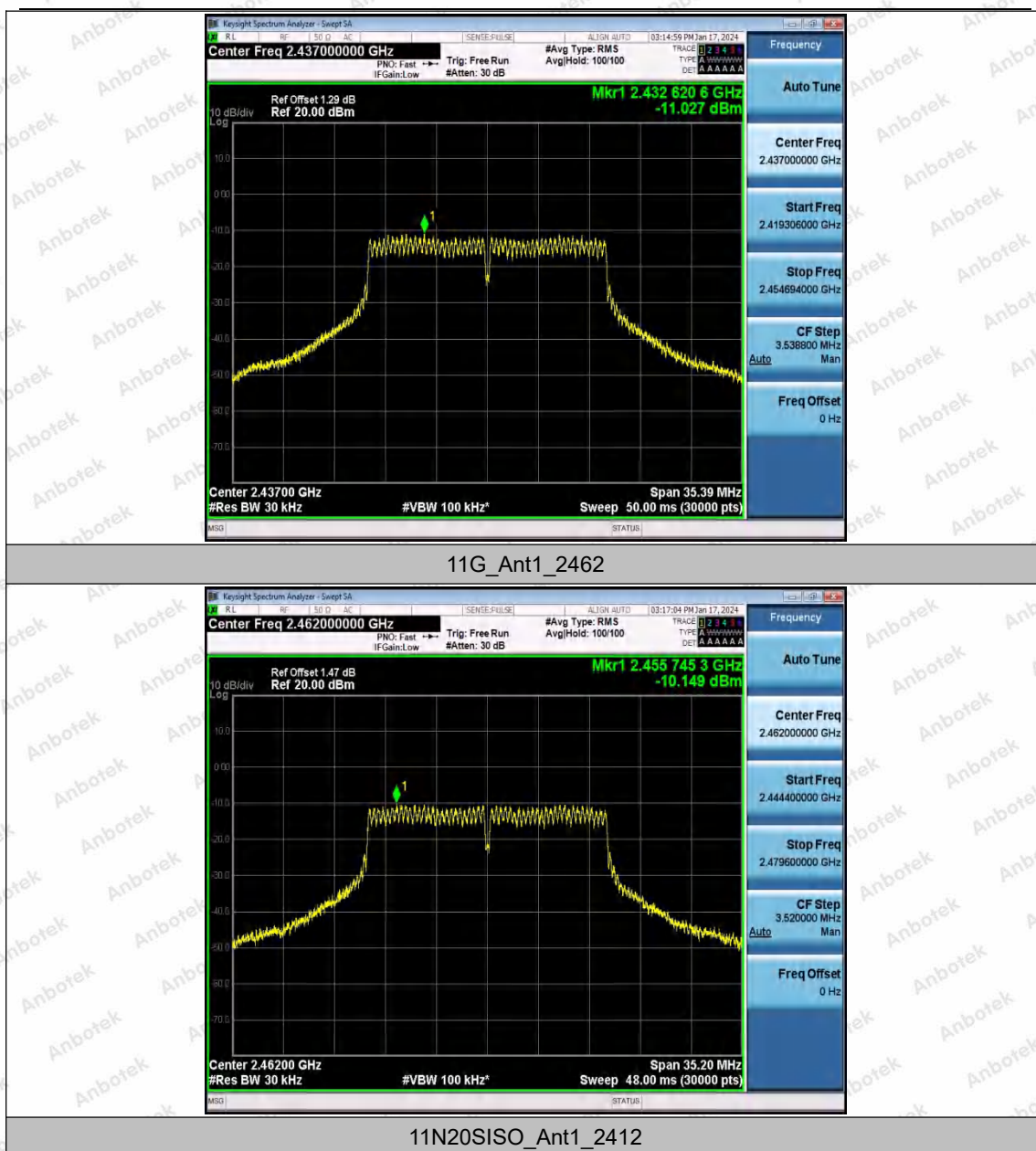
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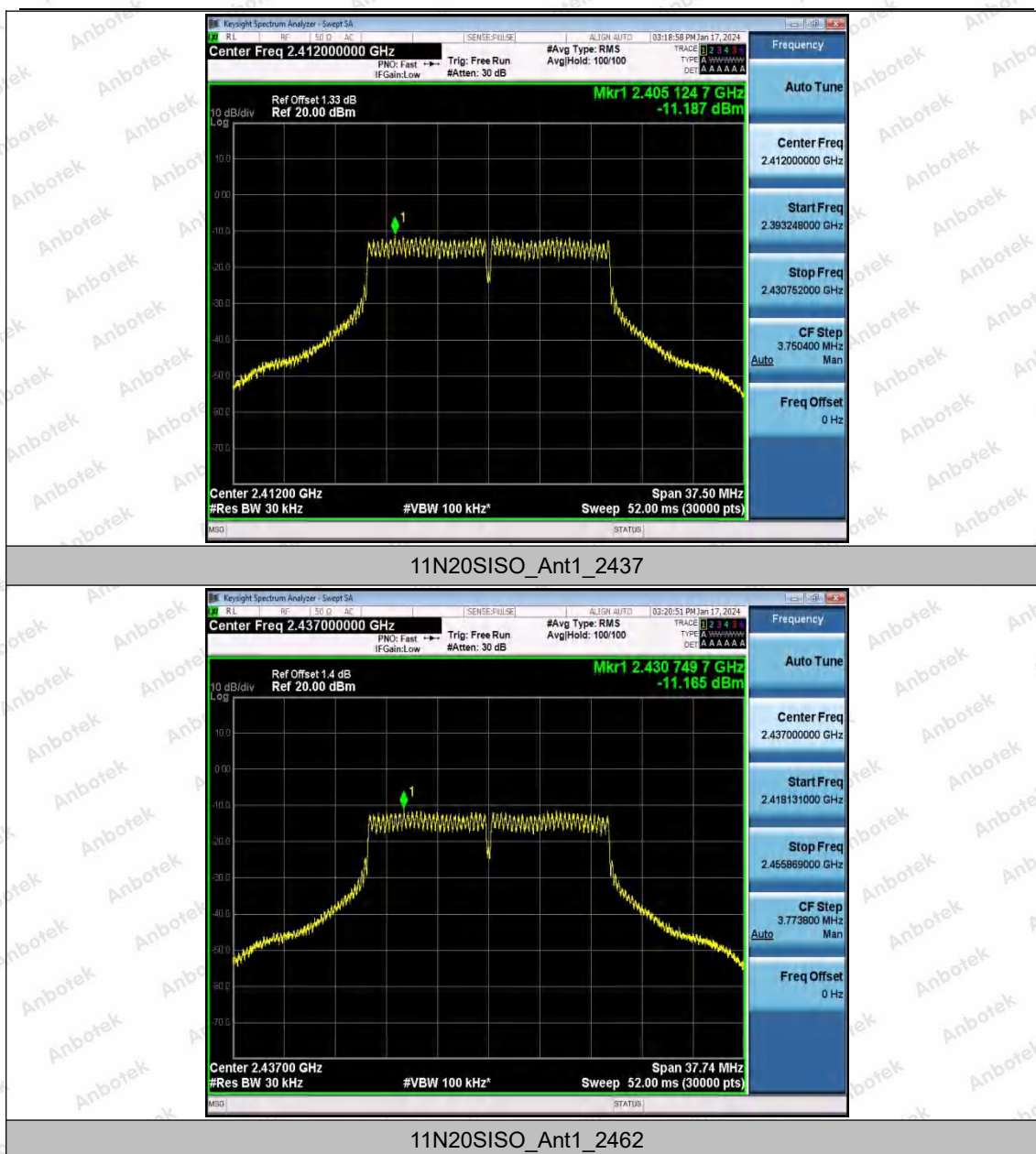
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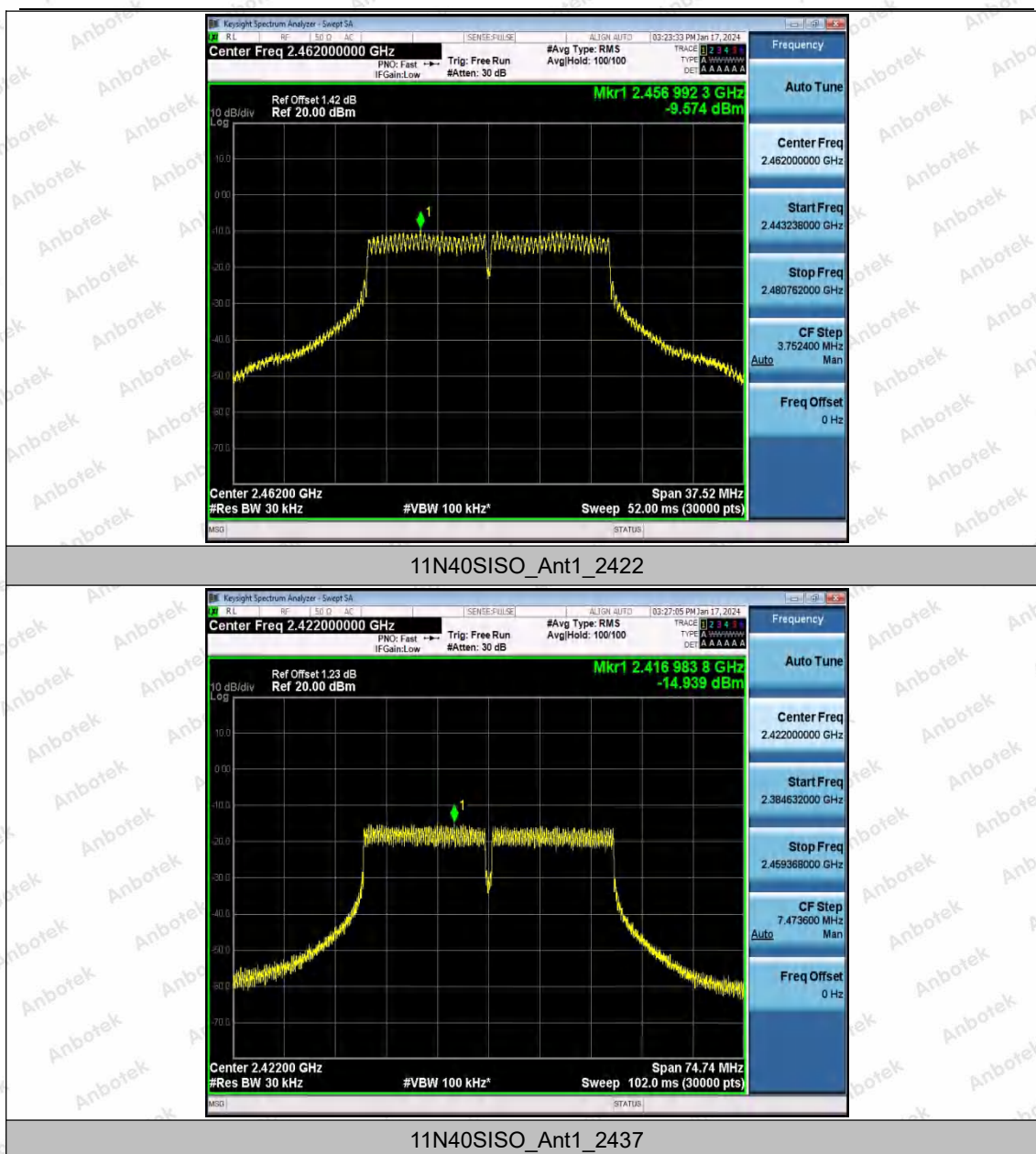
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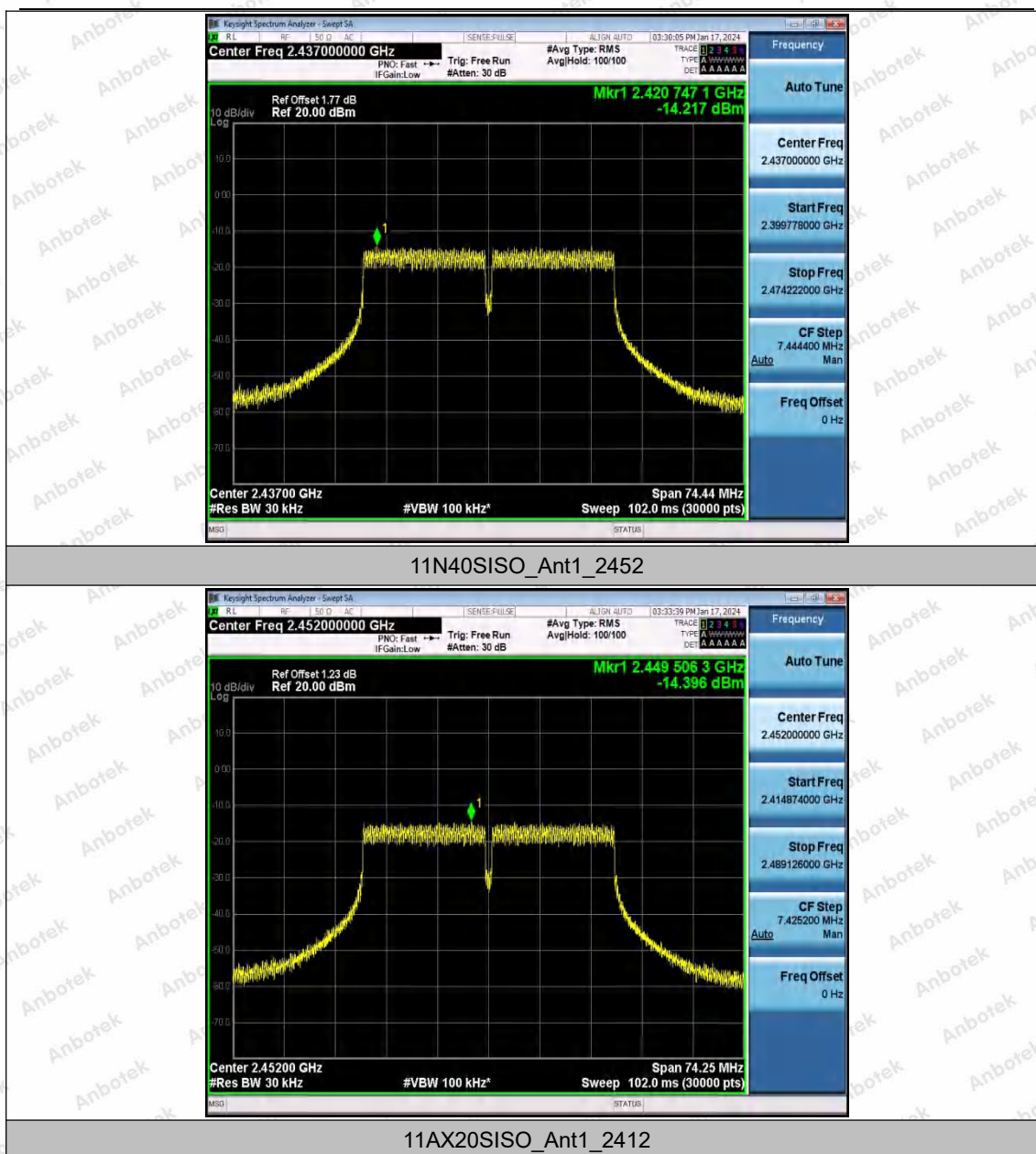
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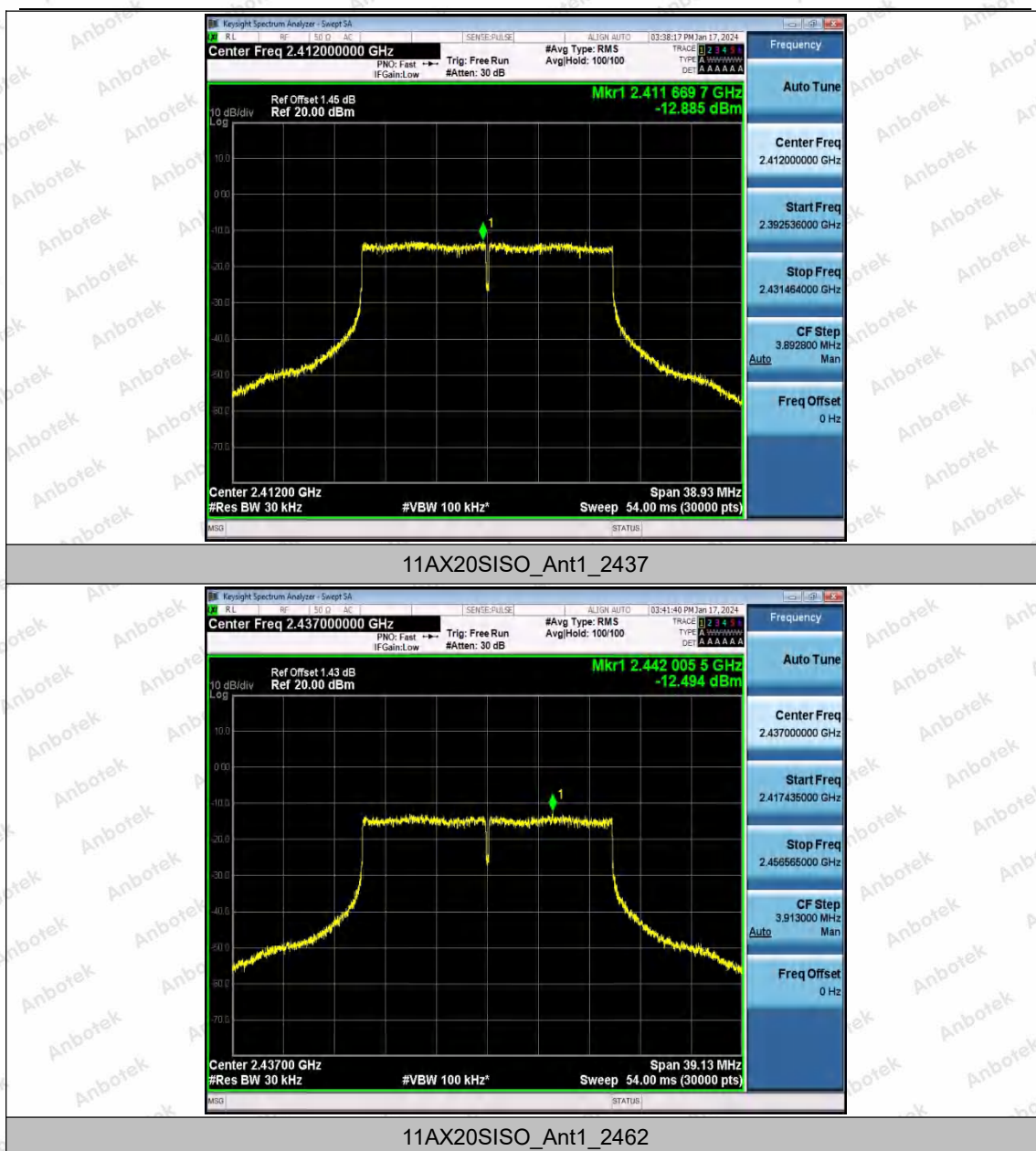
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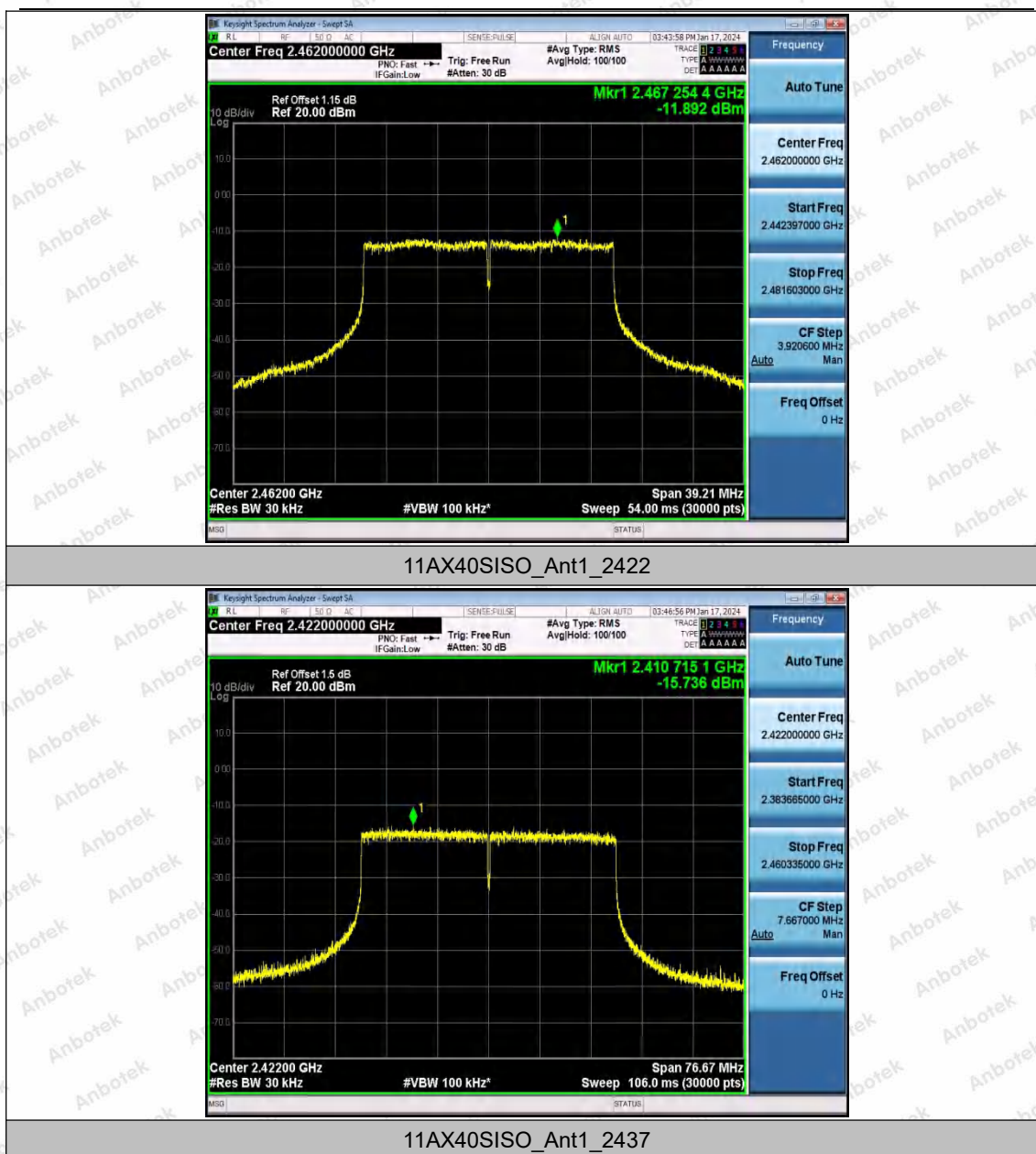
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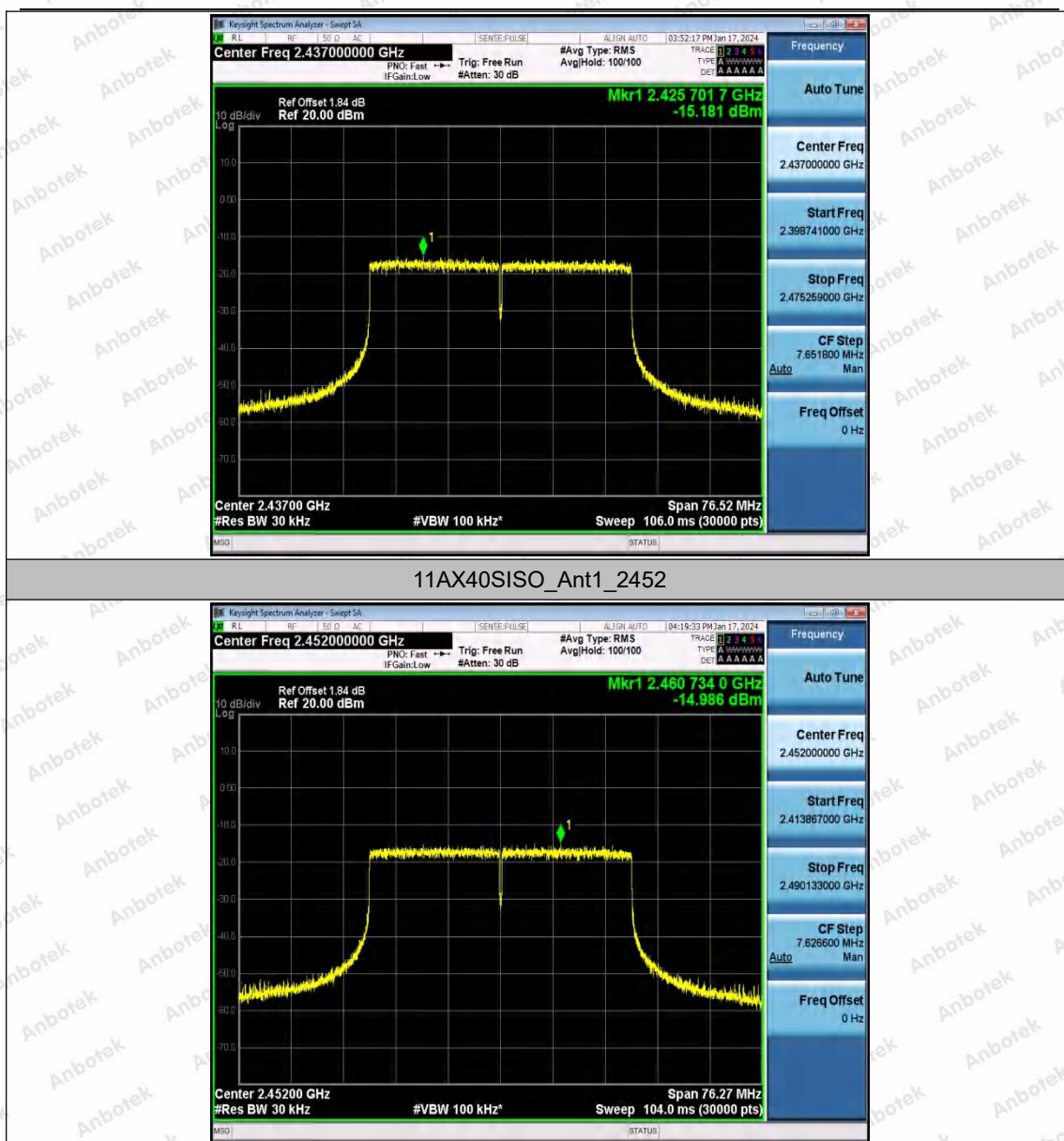
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Appendix E: Band edge measurements

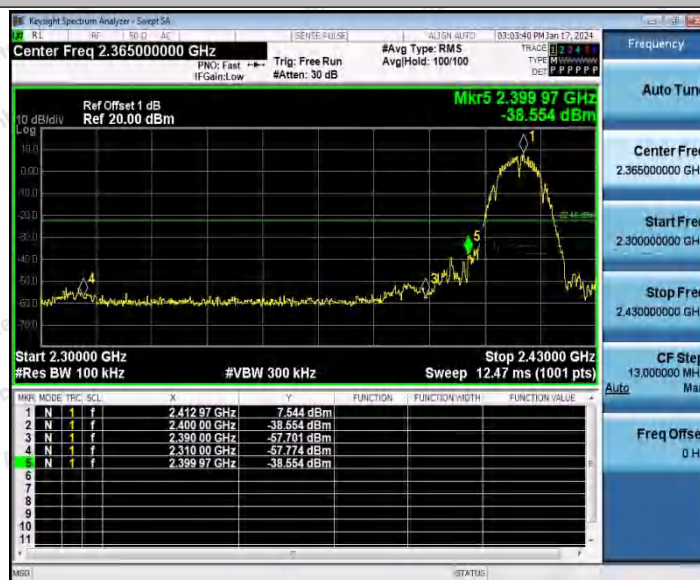
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.54	-38.55	≤-22.46	PASS
		High	2462	9.65	-49.41	≤-20.36	PASS
11G	Ant1	Low	2412	4.65	-32.15	≤-25.35	PASS
		High	2462	3.21	-39.48	≤-26.79	PASS
11N20SISO	Ant1	Low	2412	4.83	-33.54	≤-25.17	PASS
		High	2462	3.10	-38.36	≤-26.91	PASS
11N40SISO	Ant1	Low	2422	2.66	-28.19	≤-27.34	PASS
		High	2452	-1.27	-37.06	≤-31.27	PASS
11AX20SISO	Ant1	Low	2412	2.03	-28.55	≤-27.97	PASS
		High	2462	2.87	-34.91	≤-27.13	PASS
11AX40SISO	Ant1	Low	2422	2.83	-29.47	≤-27.17	PASS
		High	2452	-1.19	-34.18	≤-31.19	PASS

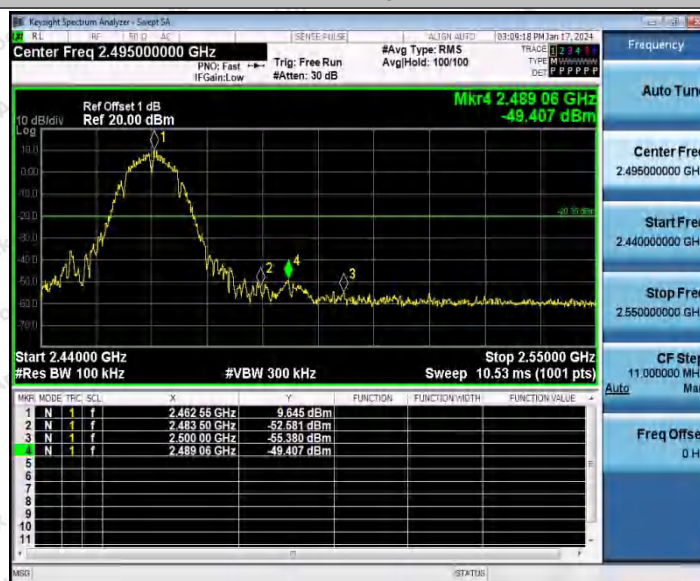


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.53	5.53	---	PASS
			30~1000	5.53	-64.43	≤-24.47	PASS
			1000~26500	5.53	-52.11	≤-24.47	PASS
		2437	Reference	6.12	6.12	---	PASS
			30~1000	6.12	-64.21	≤-23.88	PASS
			1000~26500	6.12	-53.6	≤-23.88	PASS
		2462	Reference	7.22	7.22	---	PASS
			30~1000	7.22	-63.83	≤-22.78	PASS
			1000~26500	7.22	-44.31	≤-22.78	PASS
11G	Ant1	2412	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-62.99	≤-31.46	PASS
			1000~26500	-1.46	-52.91	≤-31.46	PASS
		2437	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-63.07	≤-30.29	PASS
			1000~26500	-0.29	-53.7	≤-30.29	PASS
		2462	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-64.14	≤-30.67	PASS
			1000~26500	-0.67	-53.9	≤-30.67	PASS
11N20SISO	Ant1	2412	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-64.02	≤-32.24	PASS
			1000~26500	-2.24	-53.15	≤-32.24	PASS
		2437	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-63.58	≤-28.34	PASS
			1000~26500	1.66	-53.32	≤-28.34	PASS
		2462	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-63.91	≤-30.72	PASS
			1000~26500	-0.72	-52.69	≤-30.72	PASS
11N40SISO	Ant1	2422	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-63.14	≤-31.84	PASS
			1000~26500	-1.84	-54	≤-31.84	PASS
		2437	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-63.92	≤-33.24	PASS
			1000~26500	-3.24	-52.72	≤-33.24	PASS
		2452	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-62.43	≤-31.01	PASS

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11AX20SISO	Ant1	2412	1000~26500	-1.01	-53.15	≤ 31.01	PASS
			Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-63.7	≤ 31.22	PASS
		2437	1000~26500	-1.22	-48.67	≤ 31.22	PASS
			Reference	1.71	1.71	---	PASS
			30~1000	1.71	-64.2	≤ 28.29	PASS
		2462	1000~26500	1.71	-52.24	≤ 28.29	PASS
			Reference	1.75	1.75	---	PASS
			30~1000	1.75	-63.31	≤ 28.25	PASS
11AX40SISO	Ant1	2422	1000~26500	1.75	-53.38	≤ 28.25	PASS
			Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-63.07	≤ 32.25	PASS
		2437	1000~26500	-2.25	-51.68	≤ 32.25	PASS
			Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-62.15	≤ 32.57	PASS
		2452	1000~26500	-2.57	-52.88	≤ 32.57	PASS
			Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-63.1	≤ 31.71	PASS
			1000~26500	-1.71	-51.41	≤ 31.71	PASS

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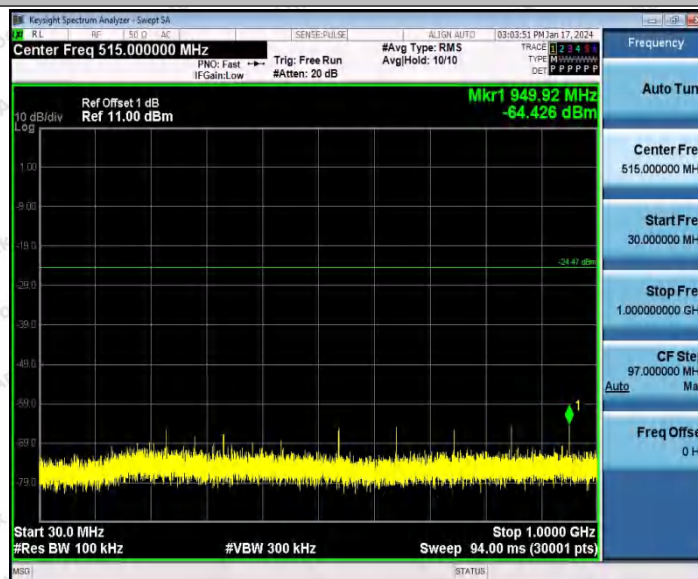


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

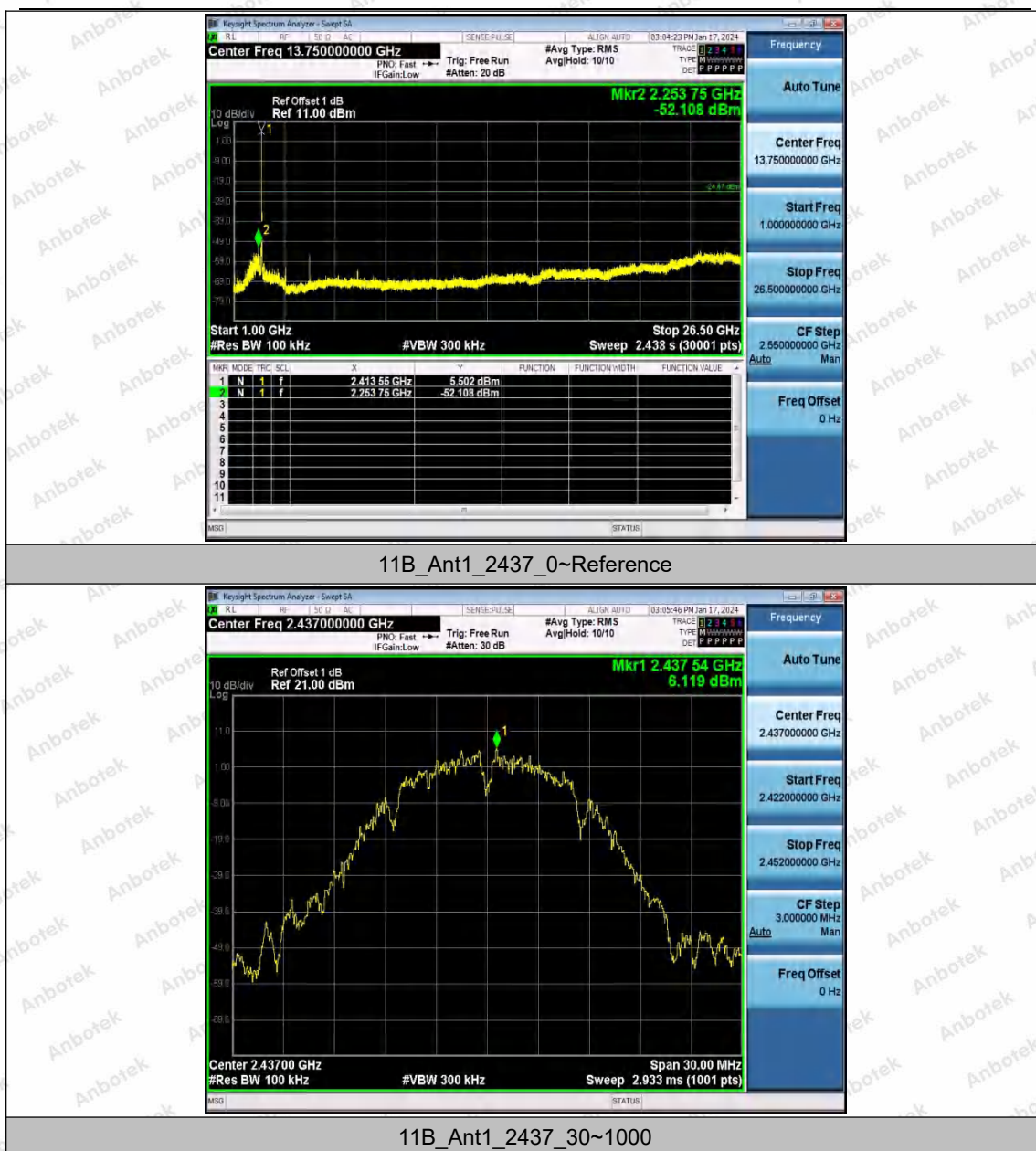
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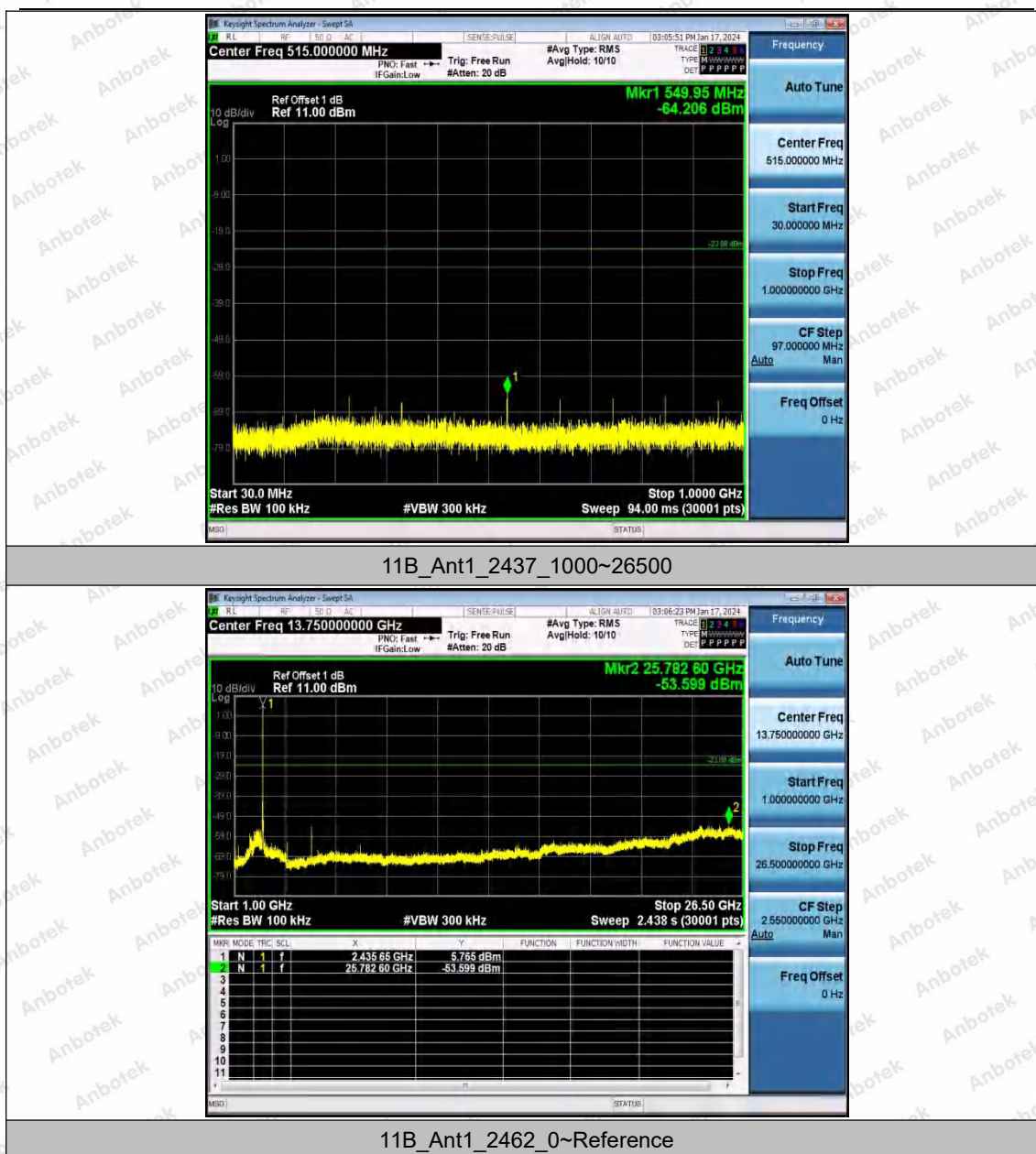
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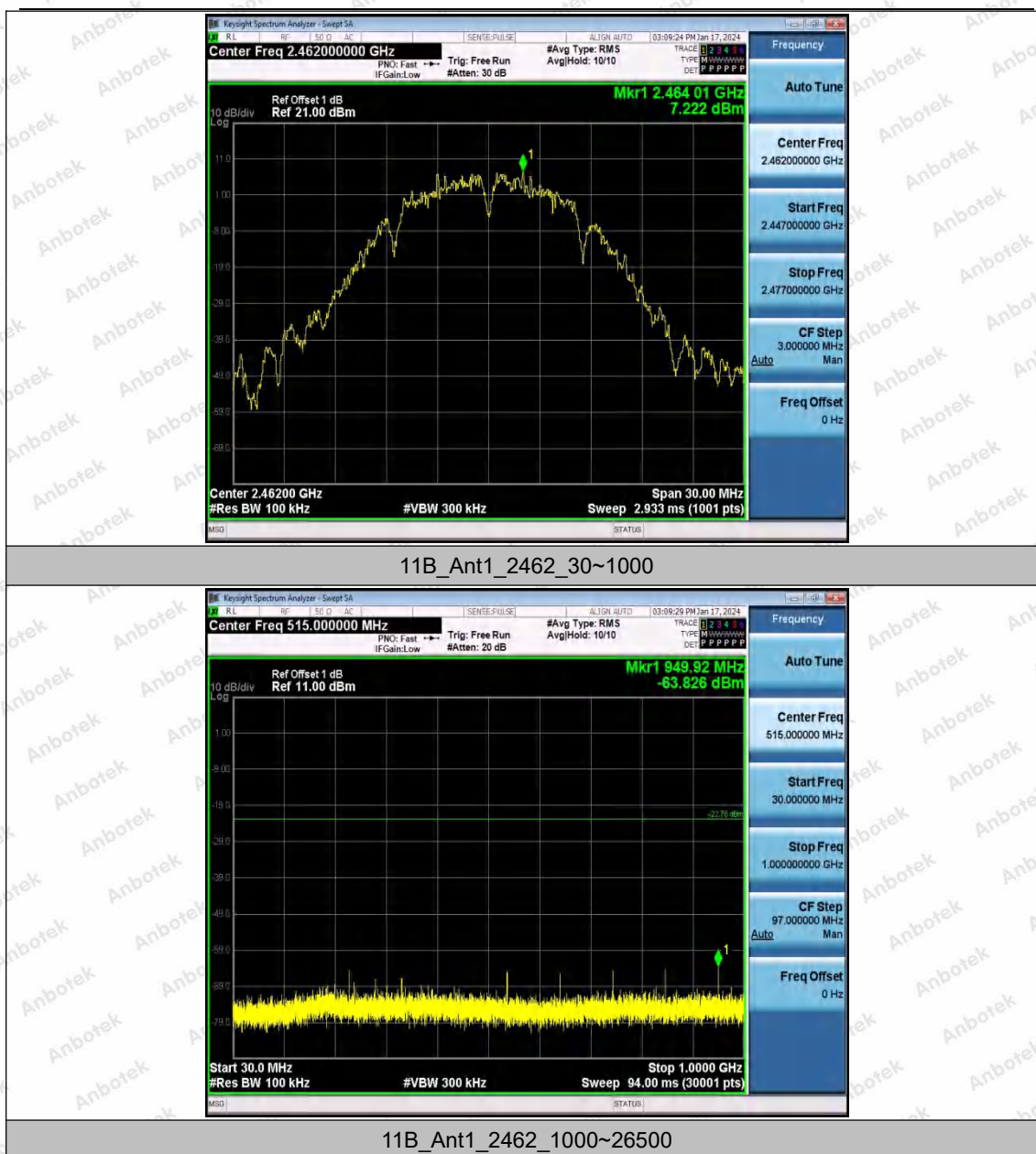
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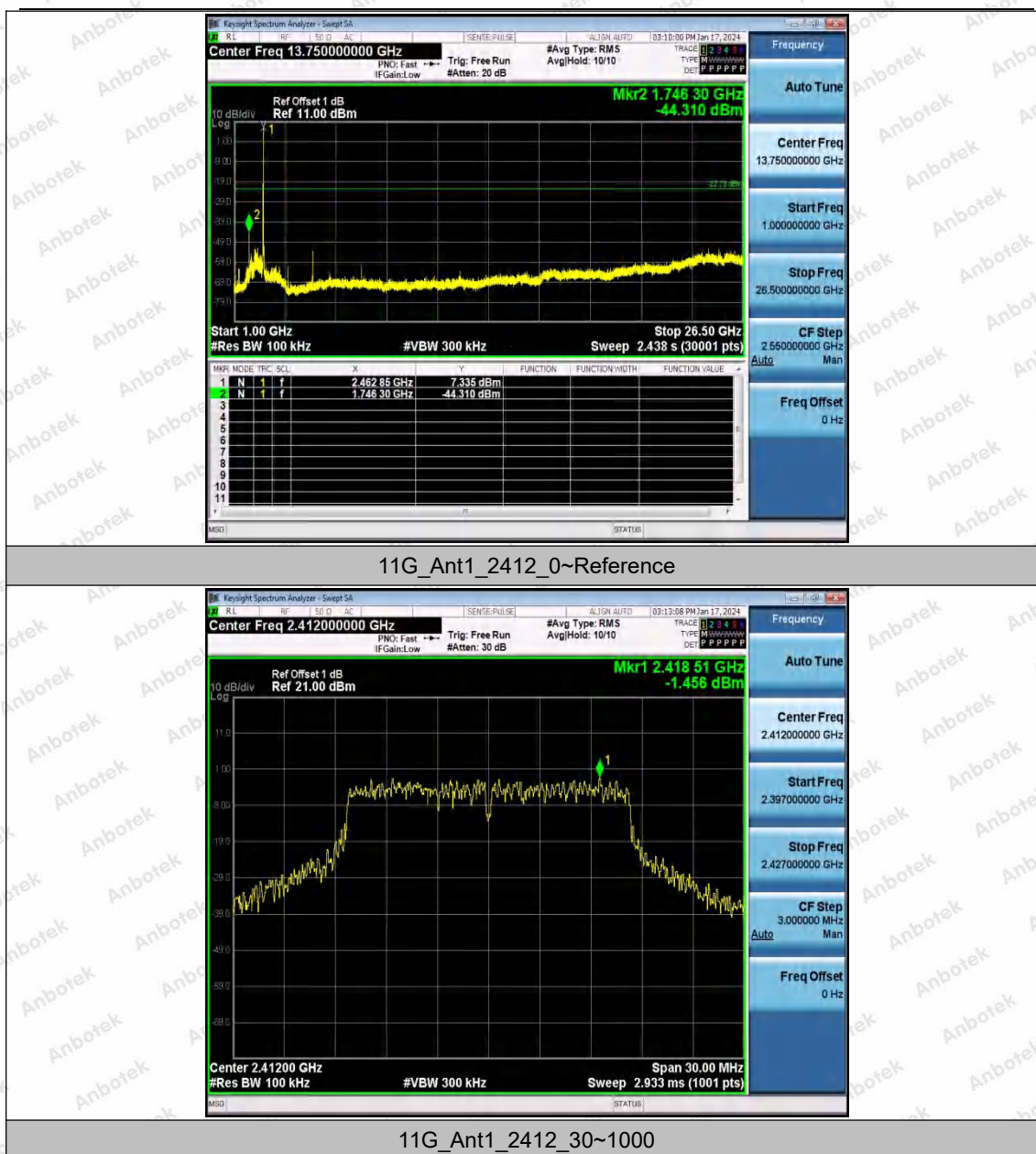
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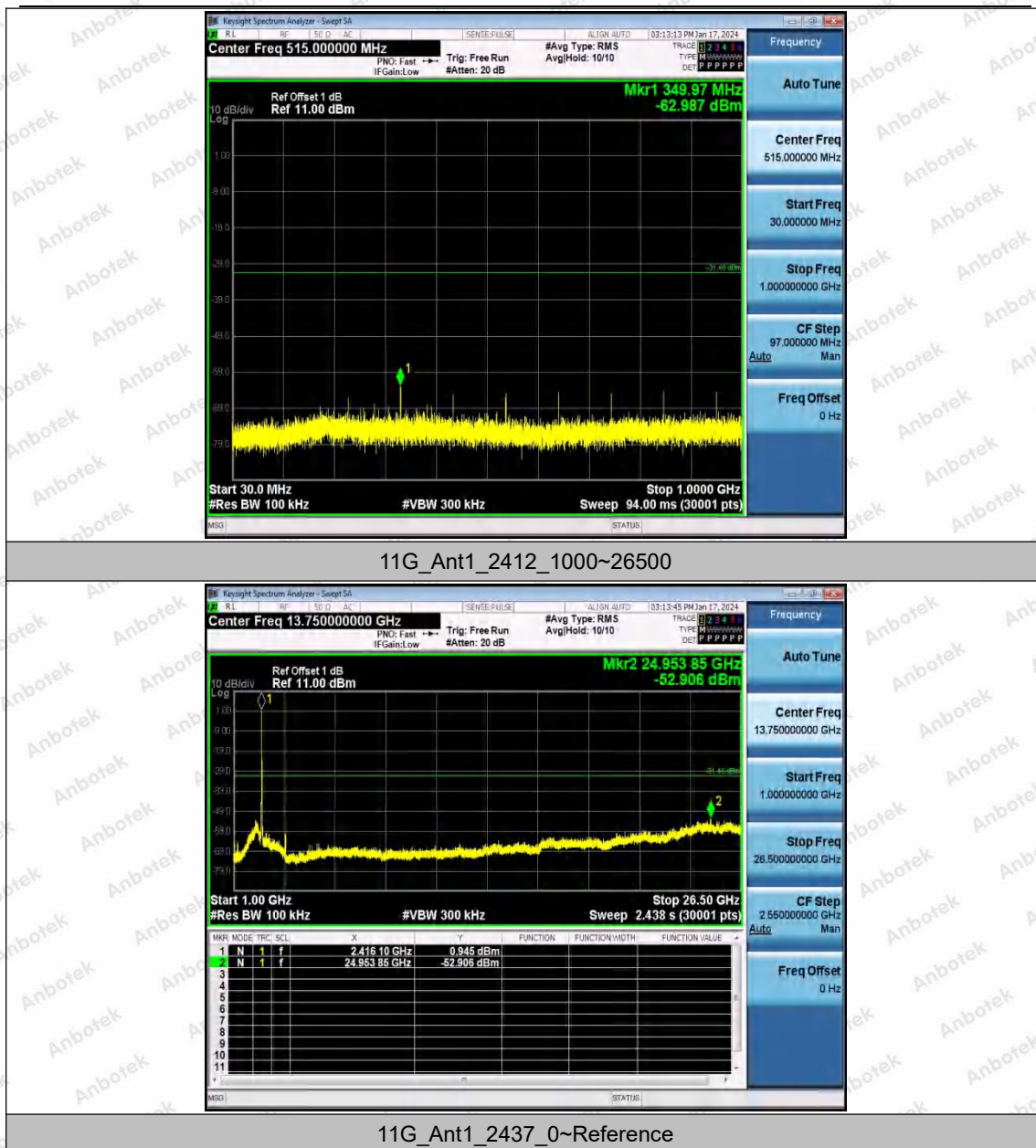
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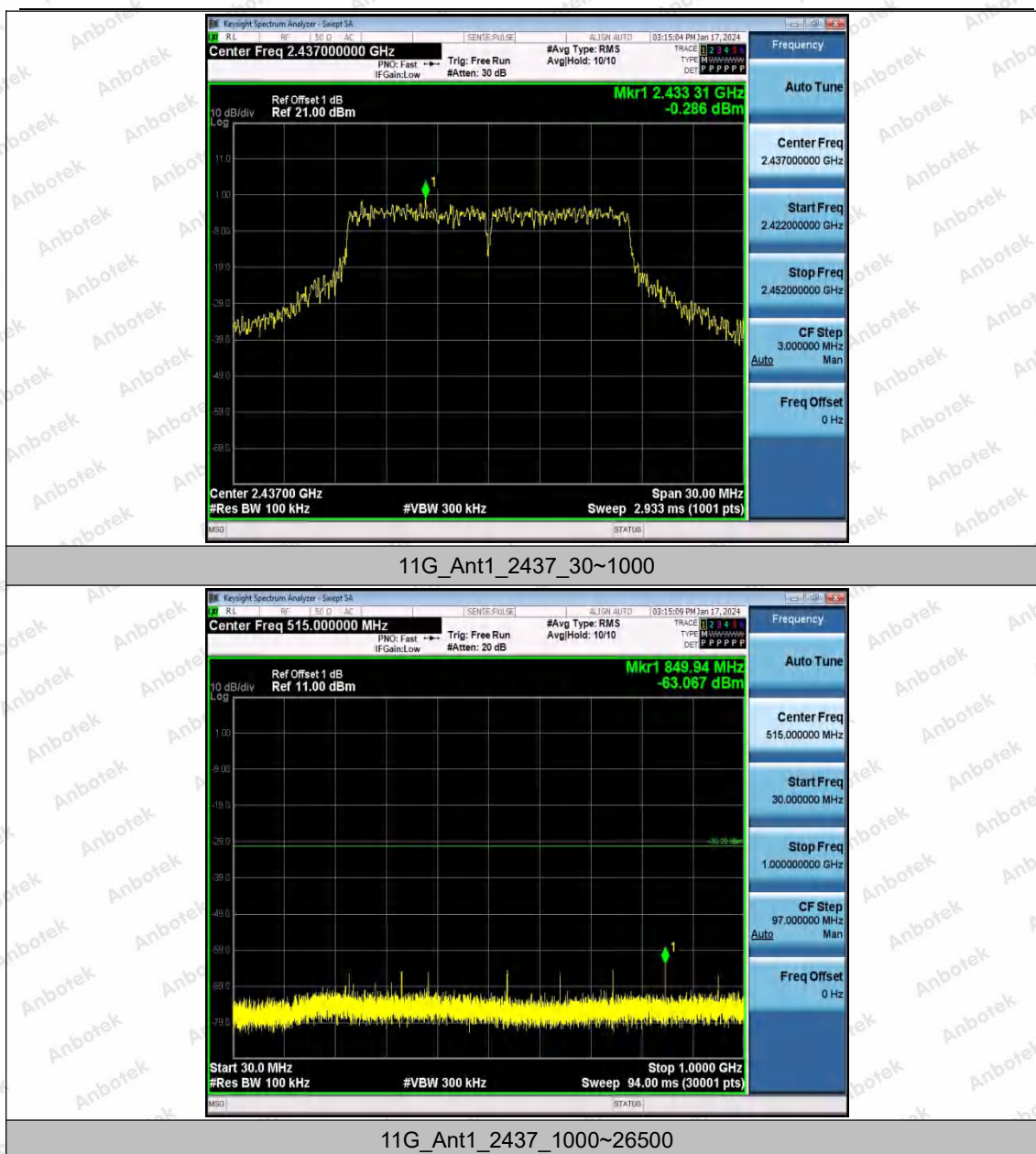
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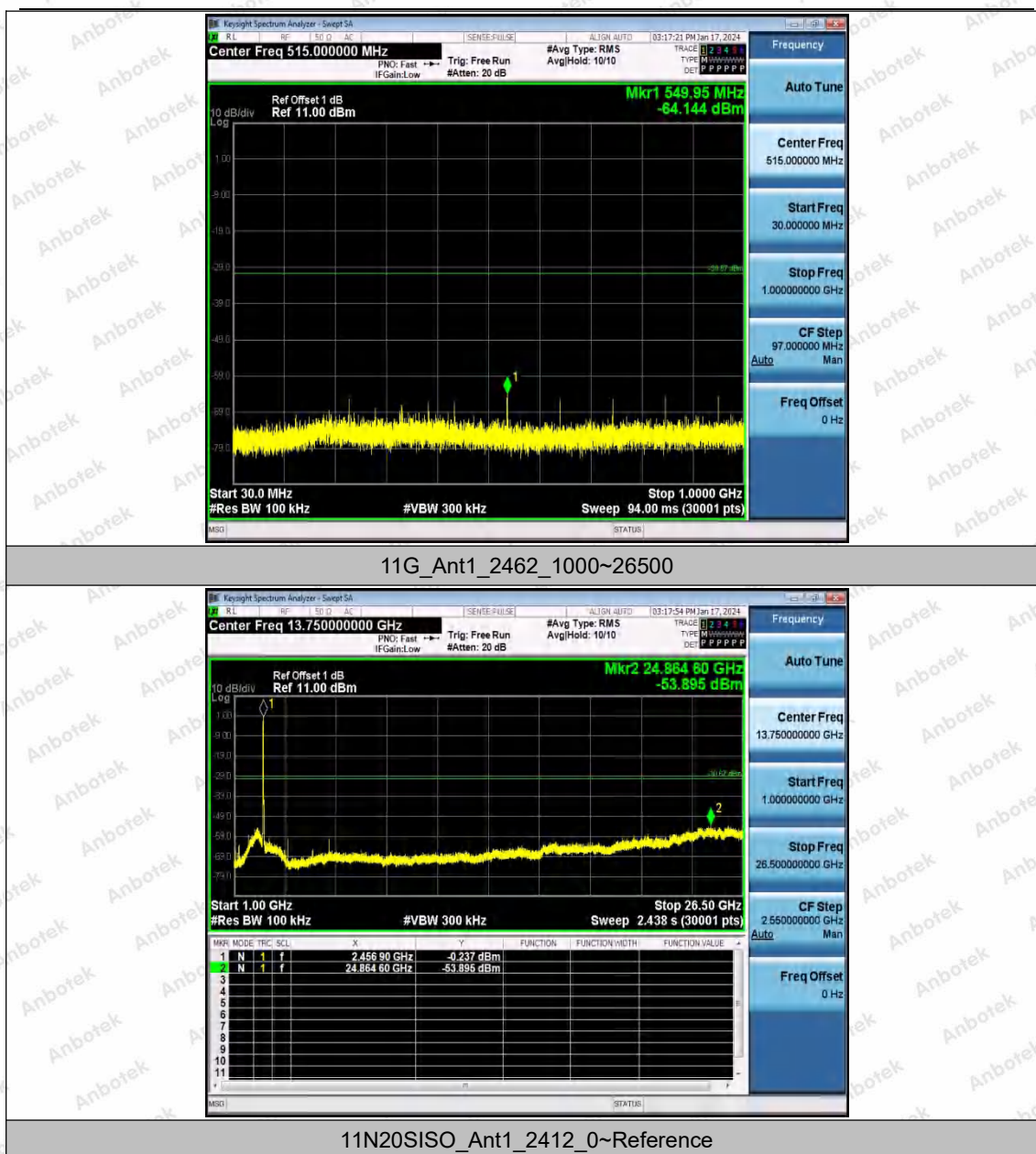
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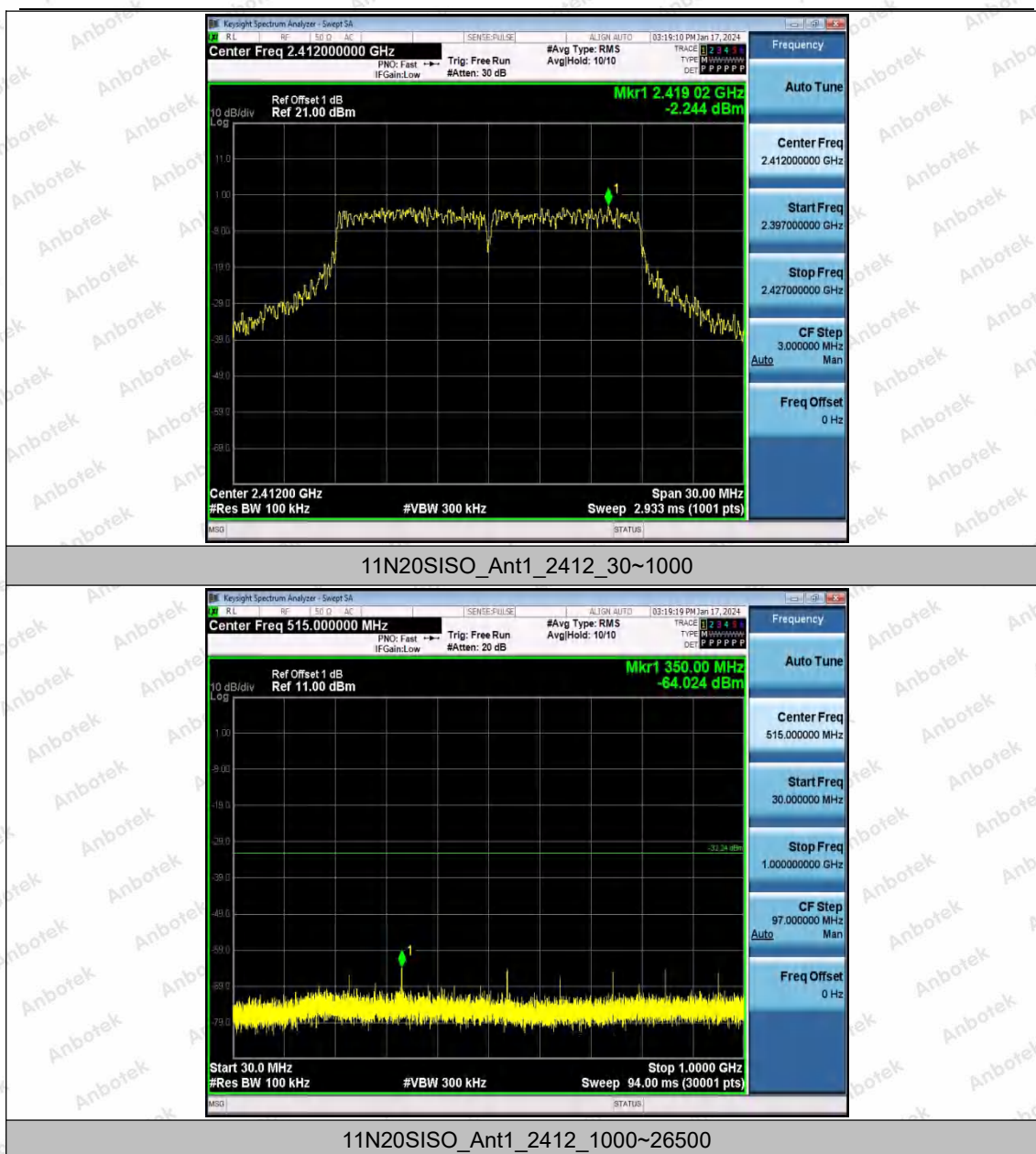
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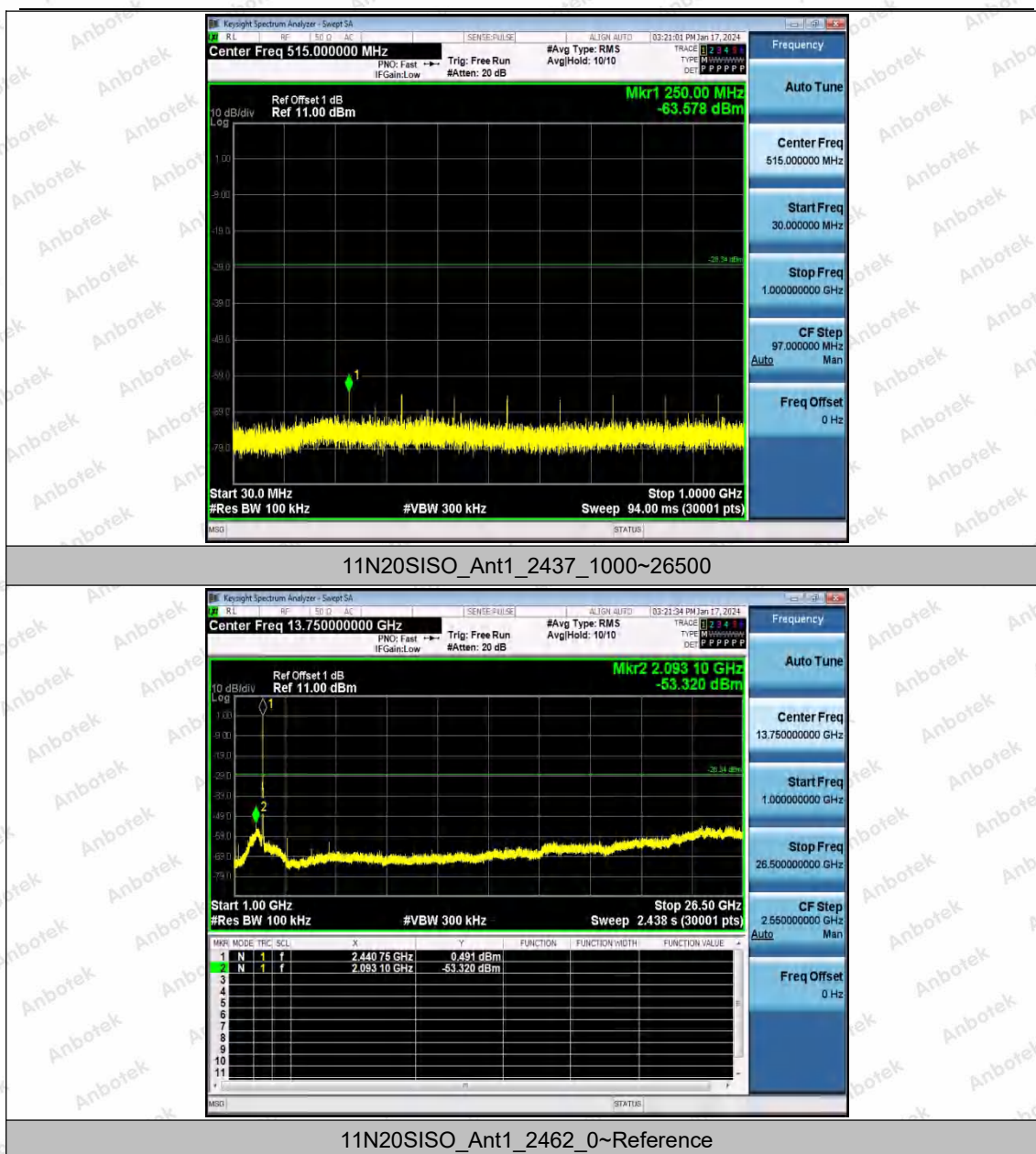
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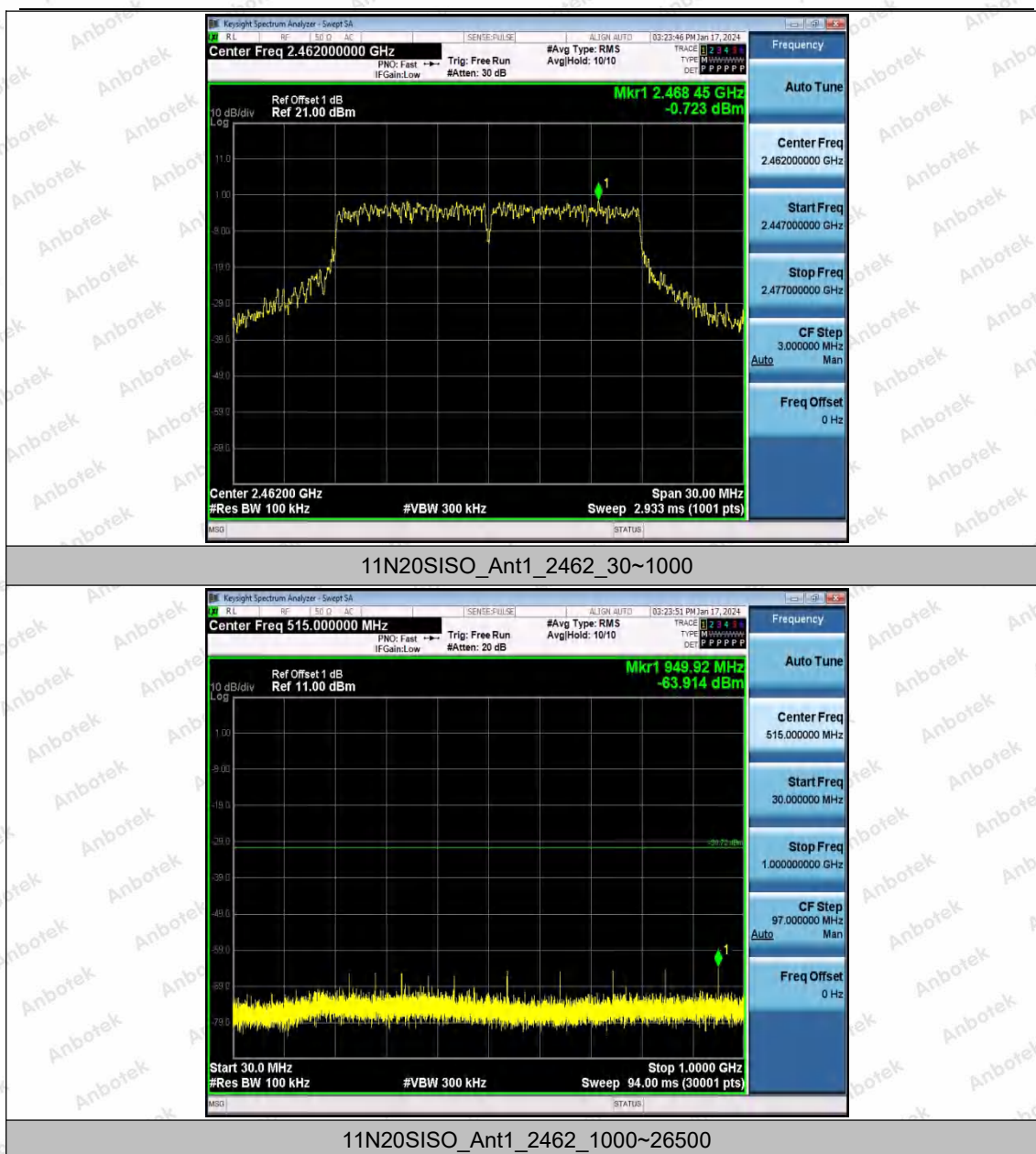
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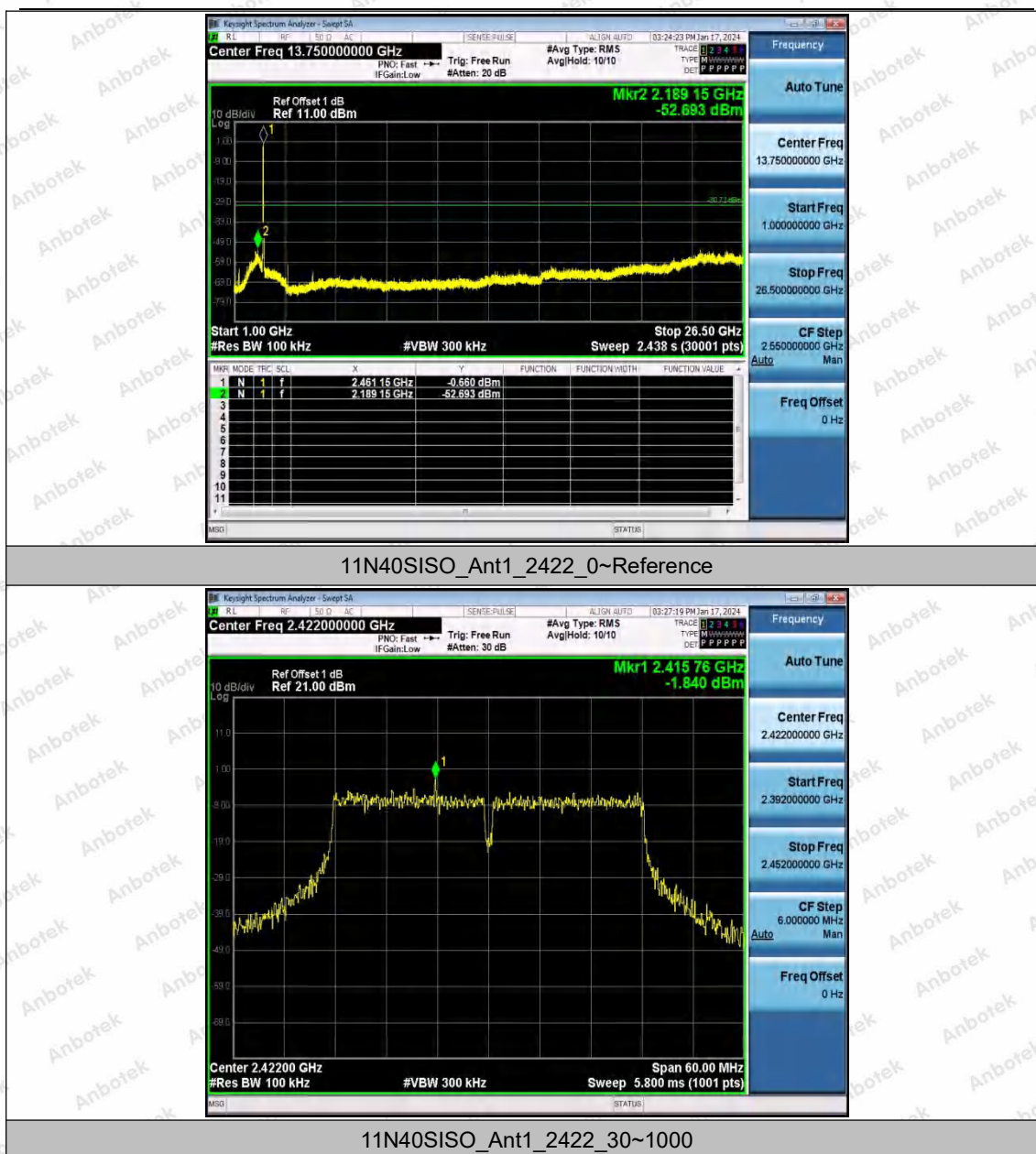
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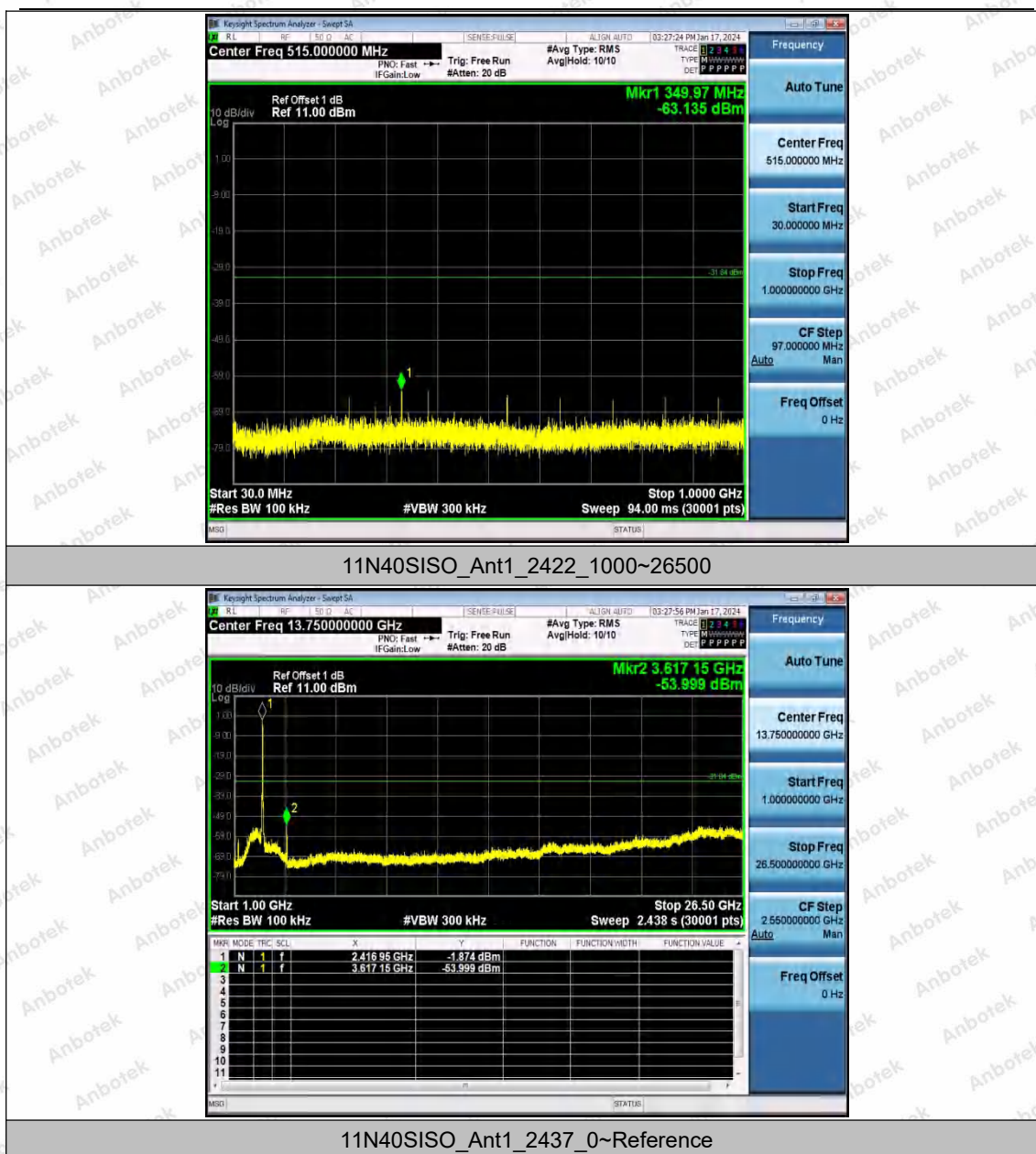
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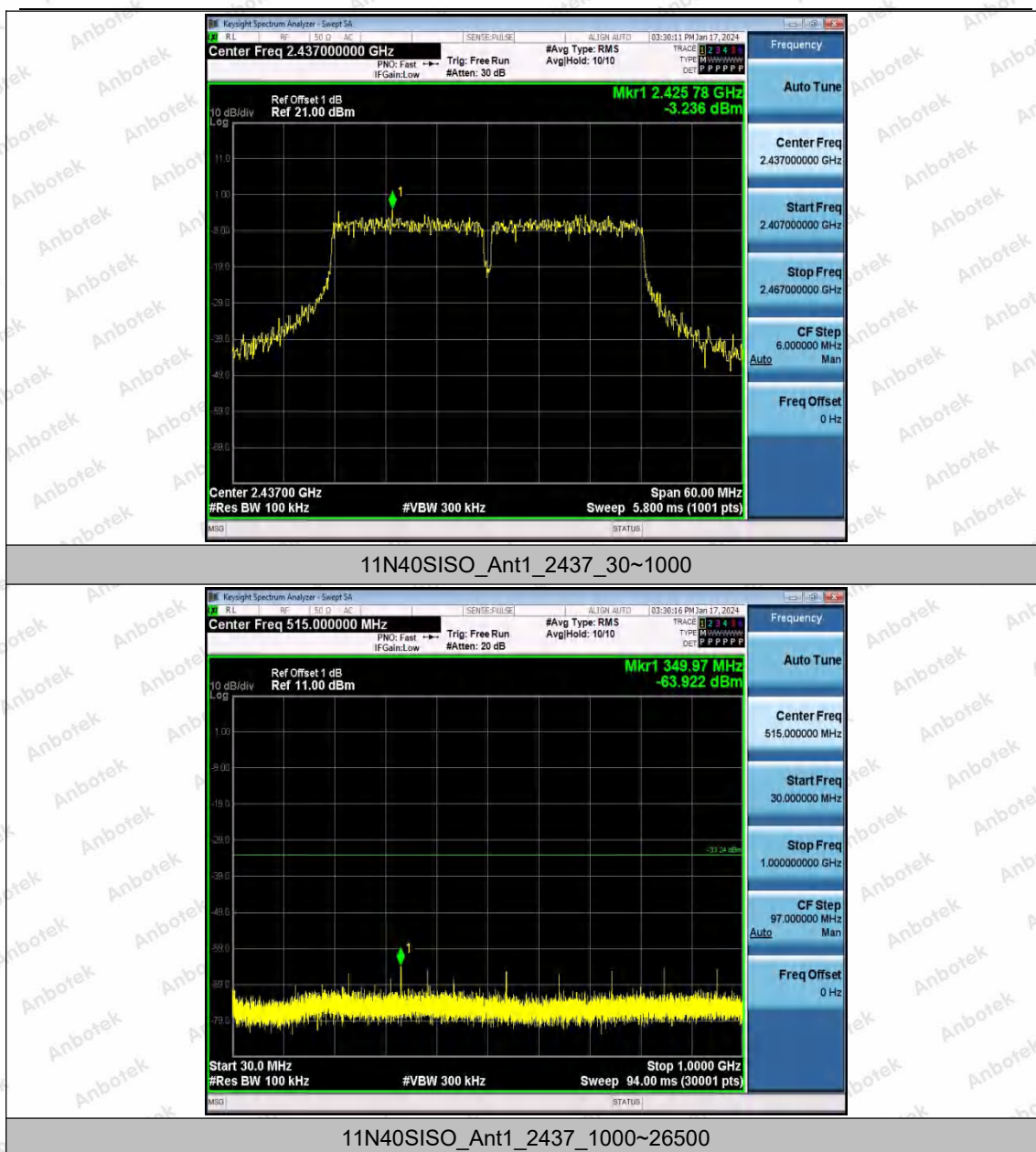
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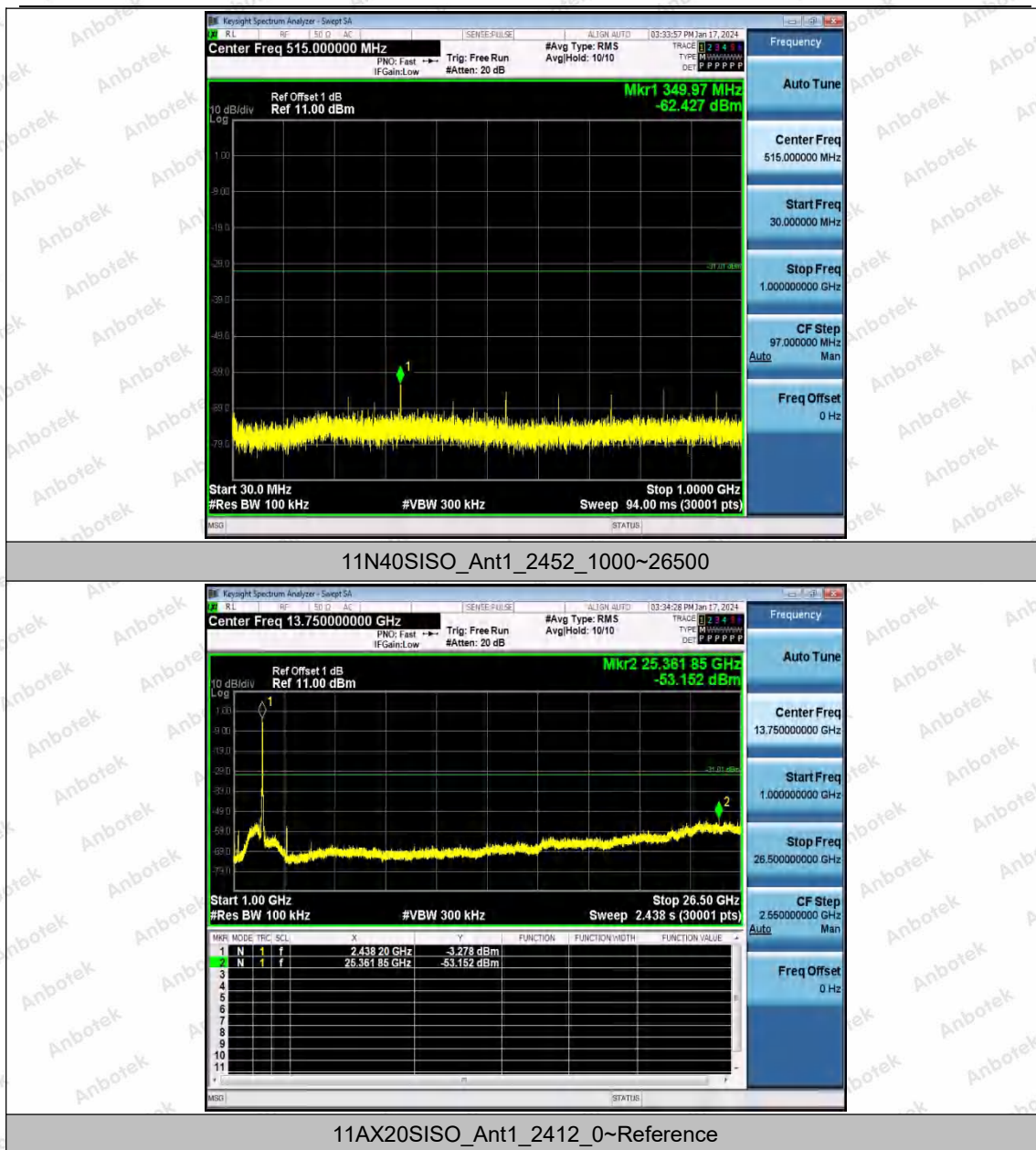


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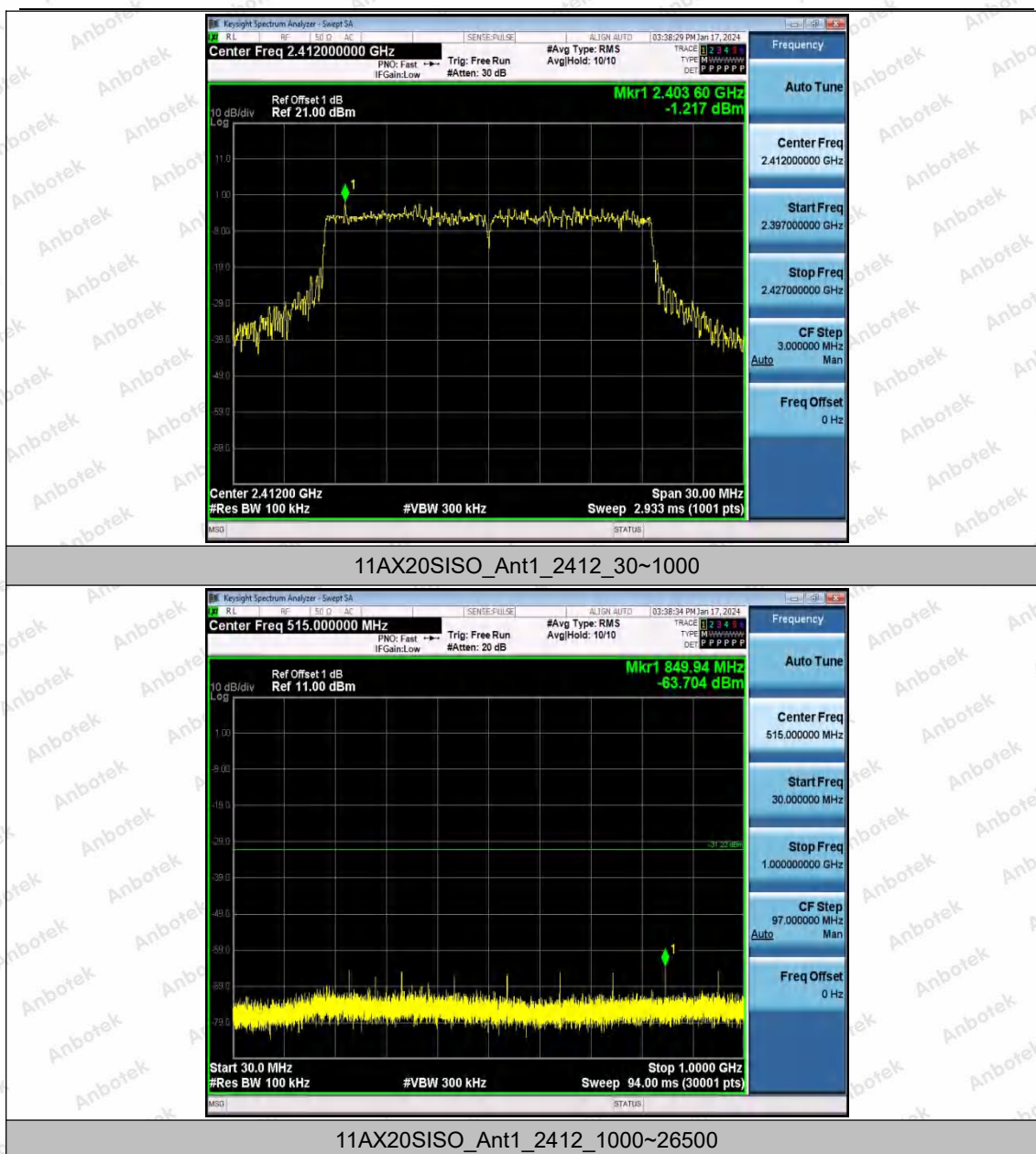
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11AX20SISO_Ant1_2437_0~Reference



11AX20SISO_Ant1_2437_30~1000

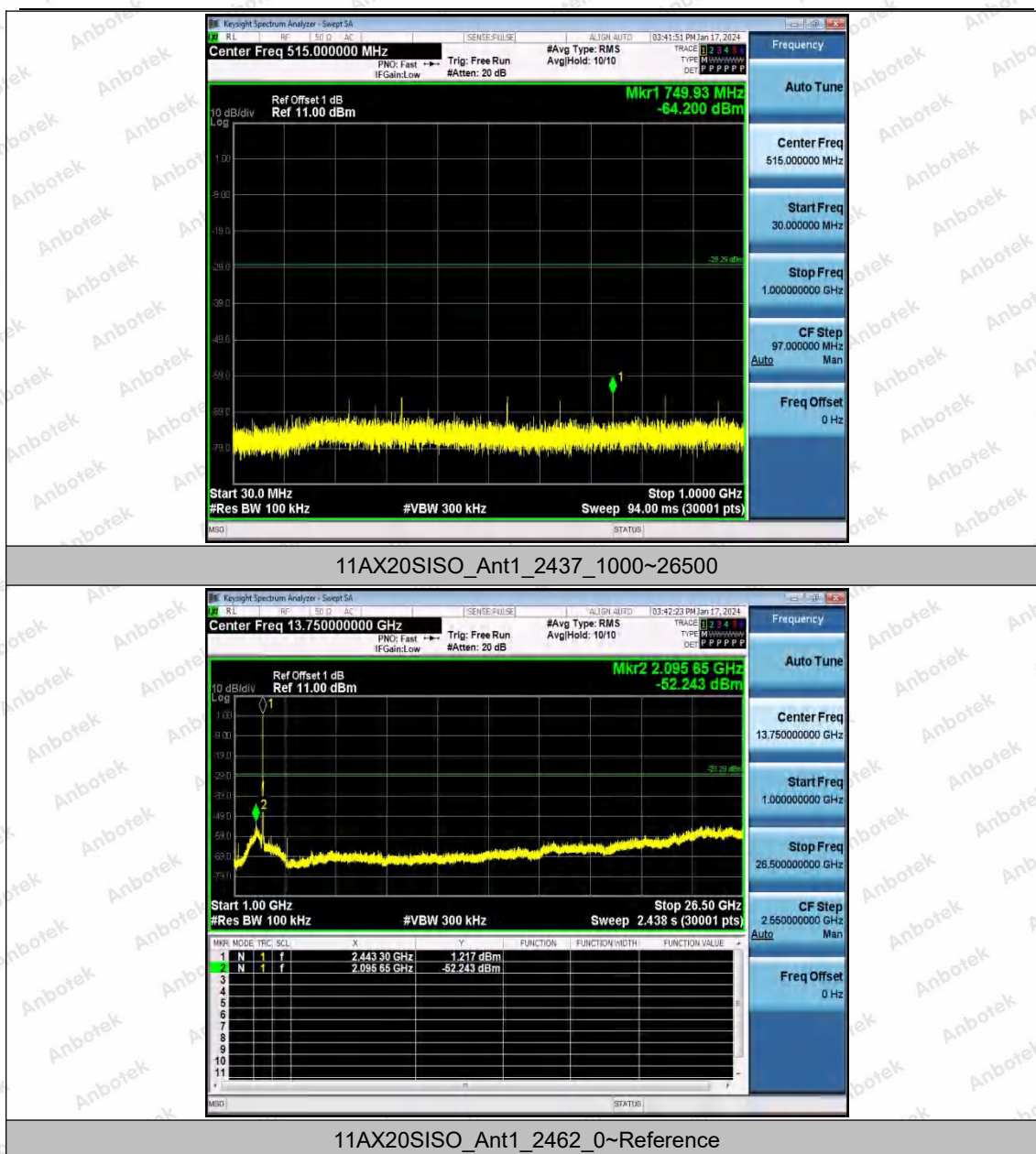
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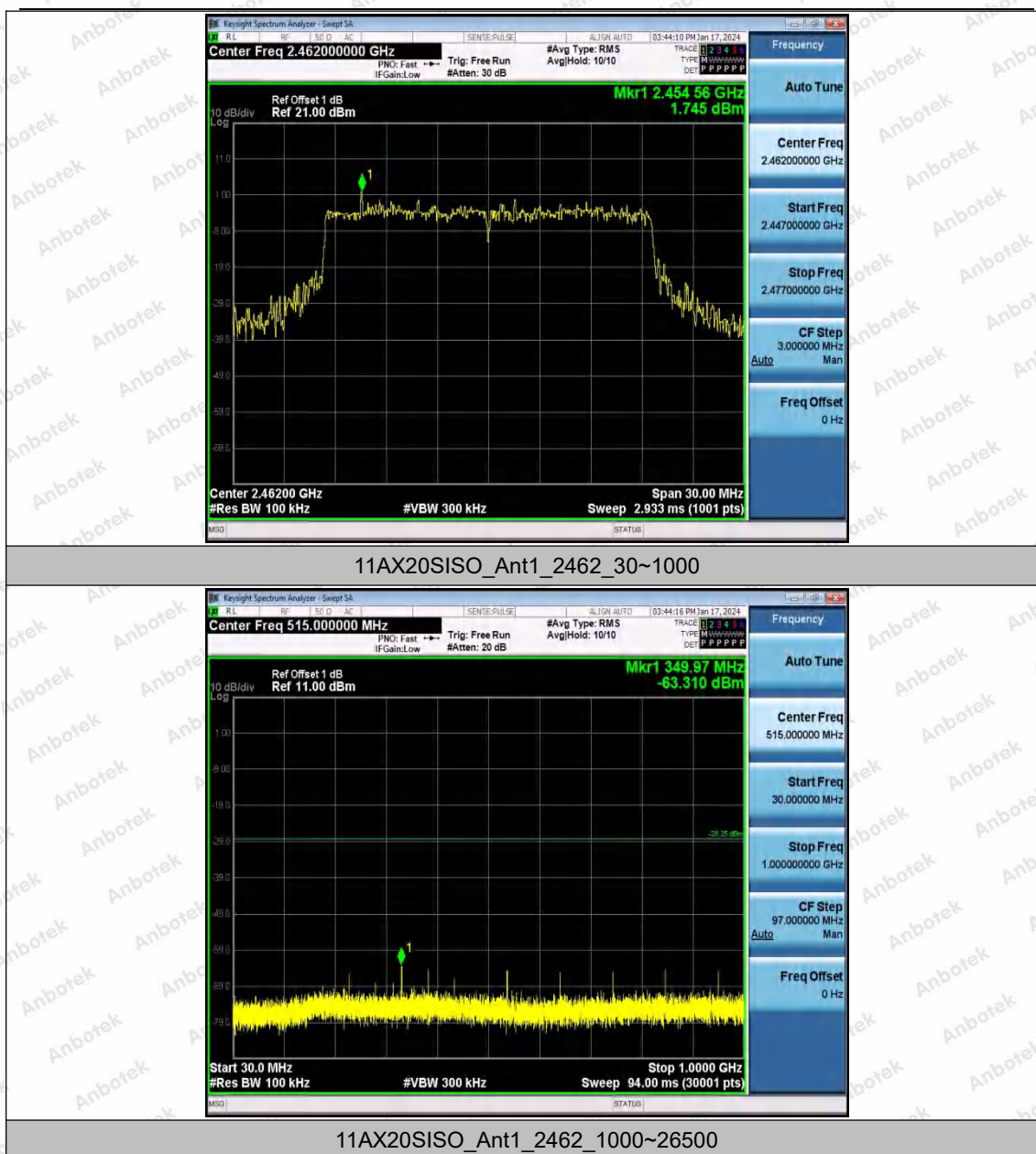
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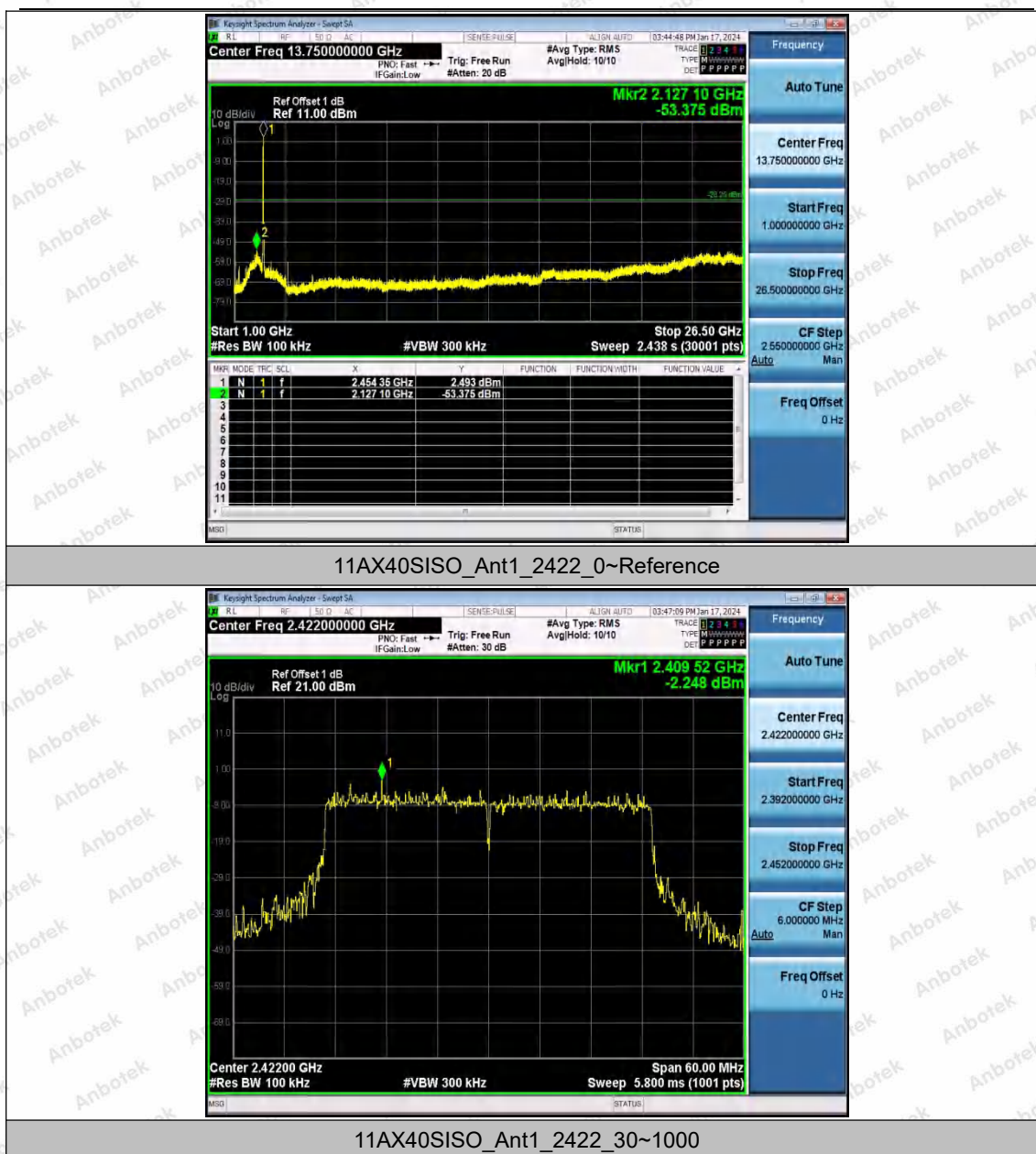
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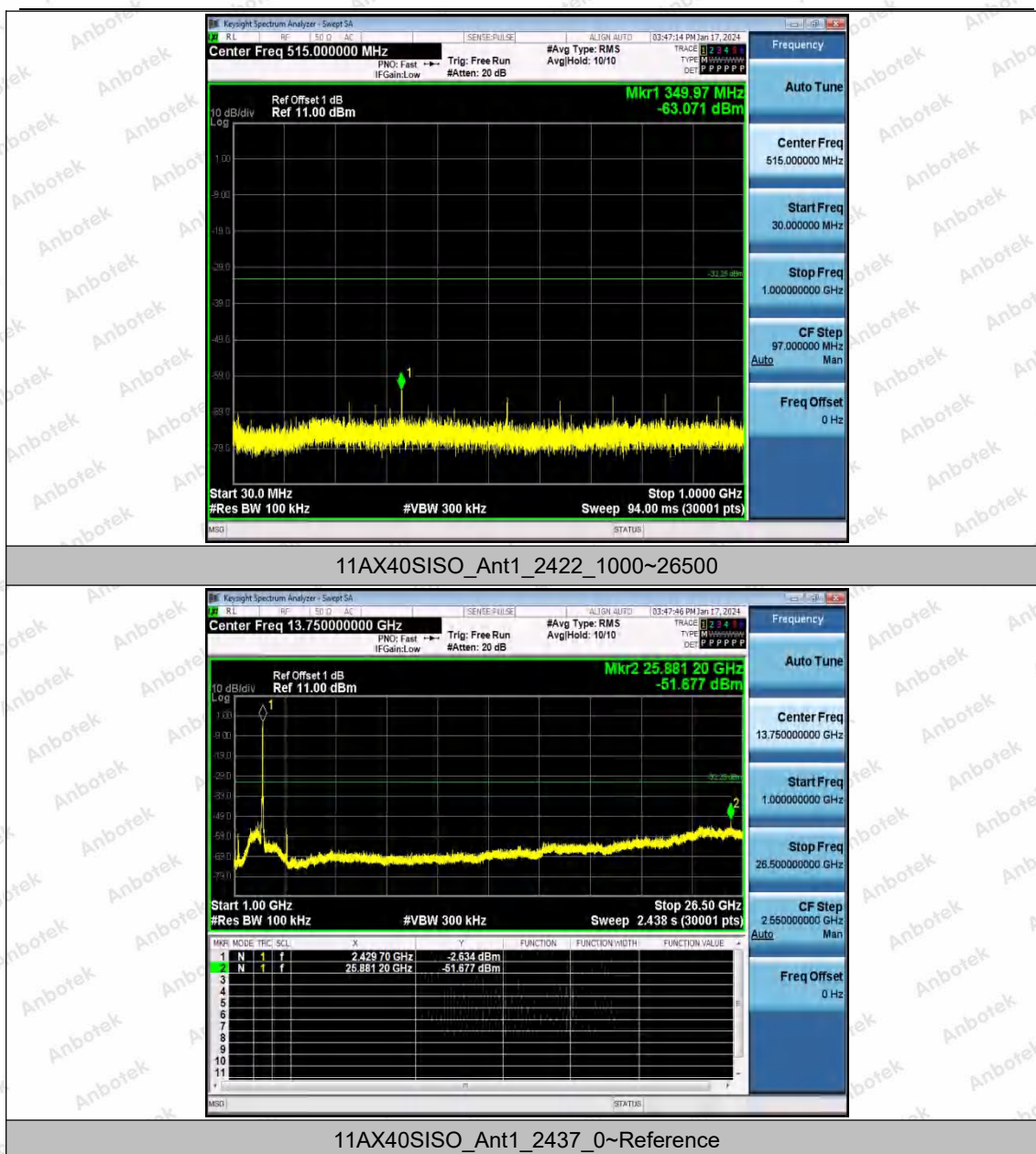
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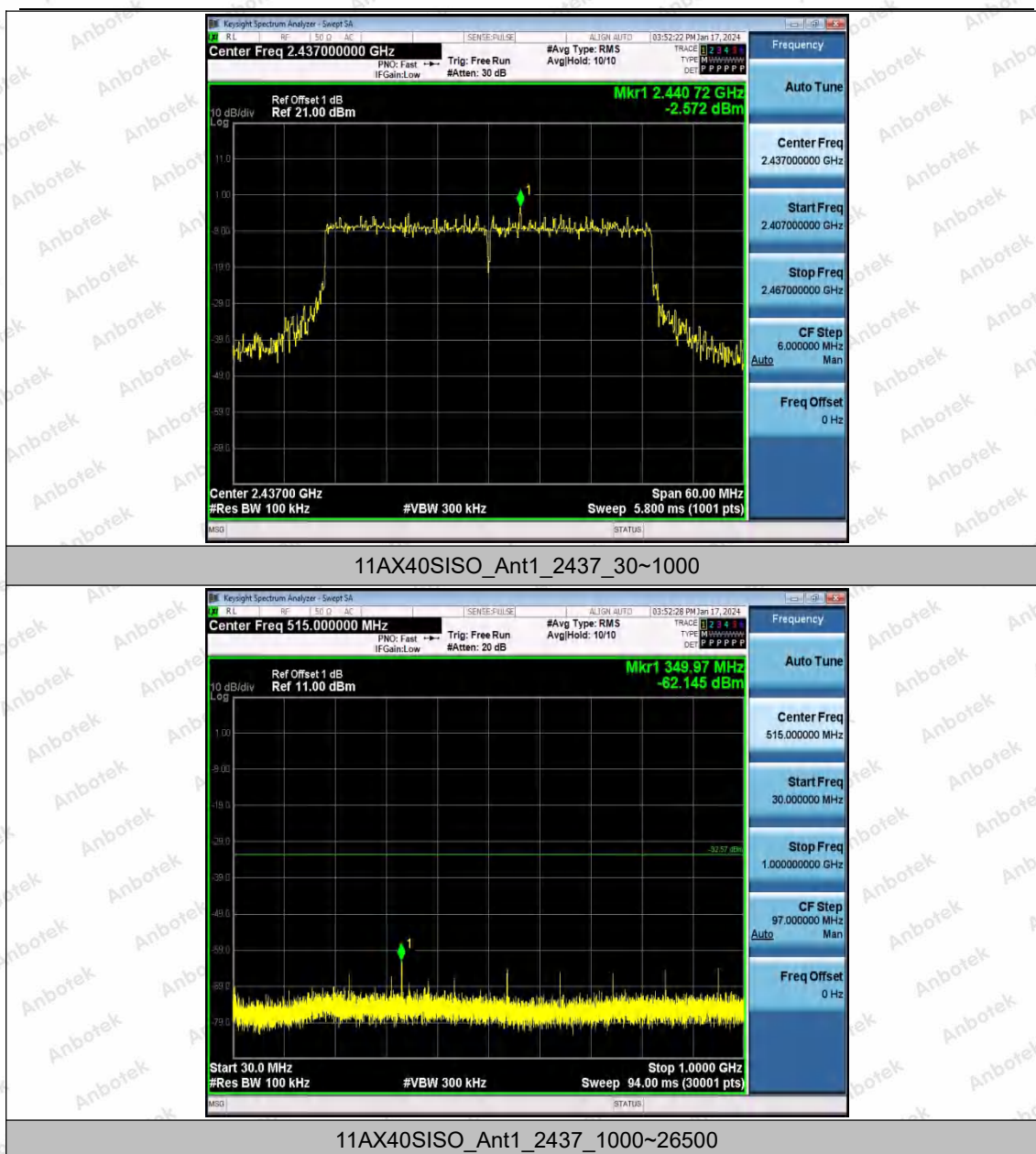
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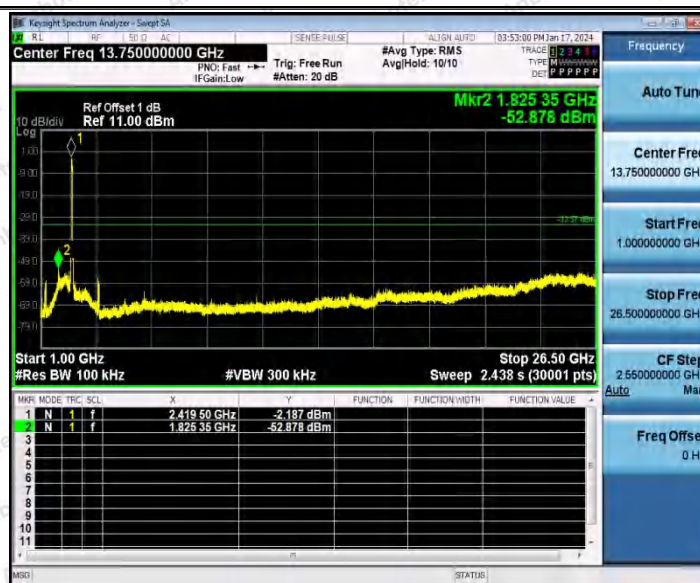
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11AX40SISO_Ant1_2452_0~Reference



11AX40SISO_Ant1_2452_30~1000

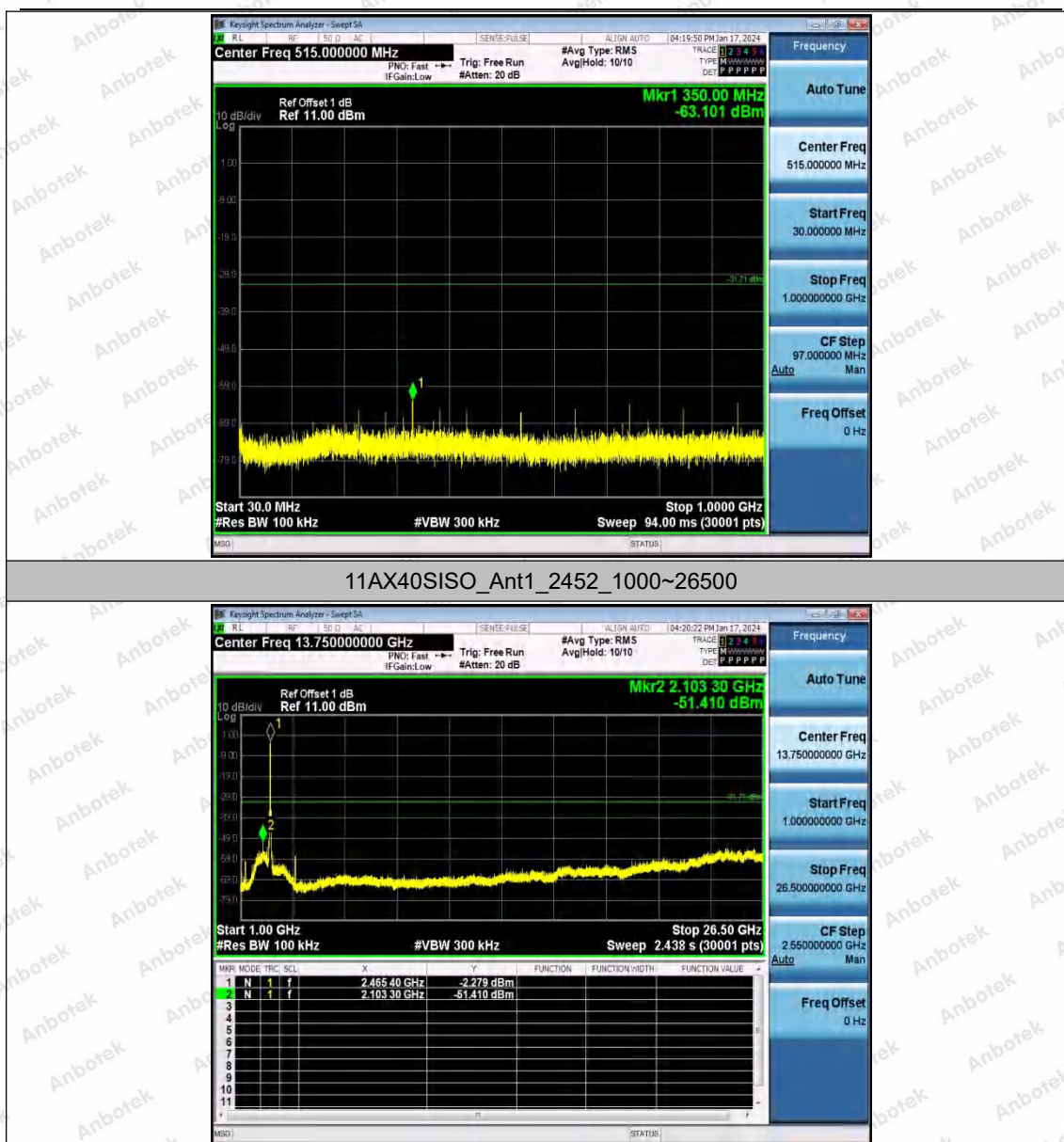
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Appendix G: Duty Cycle

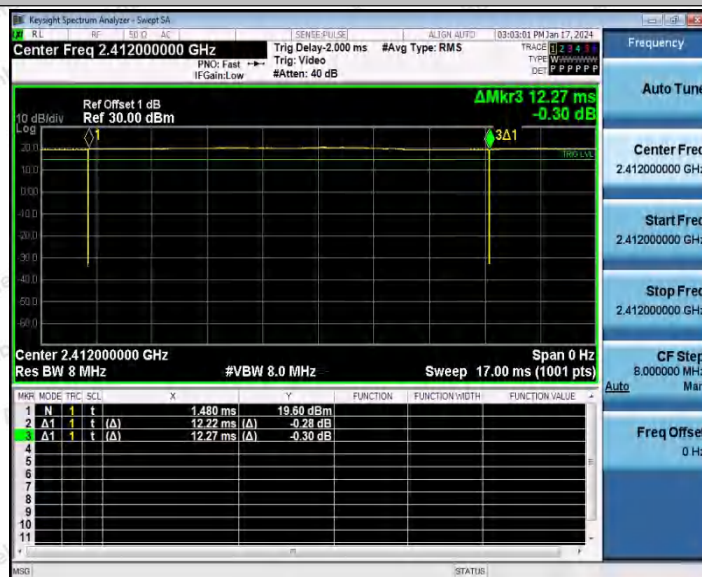
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.22	12.27	99.59	0.02
		2437	12.22	12.39	98.63	0.06
		2462	12.22	12.39	98.63	0.06
11G	Ant1	2412	2.03	2.14	94.86	0.23
		2437	2.04	2.18	93.58	0.29
		2462	2.03	2.26	89.82	0.47
11N20SISO	Ant1	2412	1.90	2.05	92.68	0.33
		2437	1.89	2.07	91.30	0.40
		2462	1.89	2.08	90.87	0.42
11N40SISO	Ant1	2422	0.93	0.98	94.90	0.23
		2437	0.93	1.11	83.78	0.77
		2452	0.93	0.98	94.90	0.23
11AX20SISO	Ant1	2412	1.46	1.62	90.12	0.45
		2437	1.45	1.60	90.63	0.43
		2462	1.45	1.50	96.67	0.15
11AX40SISO	Ant1	2422	0.74	0.83	89.16	0.50
		2437	0.75	0.91	82.42	0.84
		2452	0.75	0.91	82.42	0.84

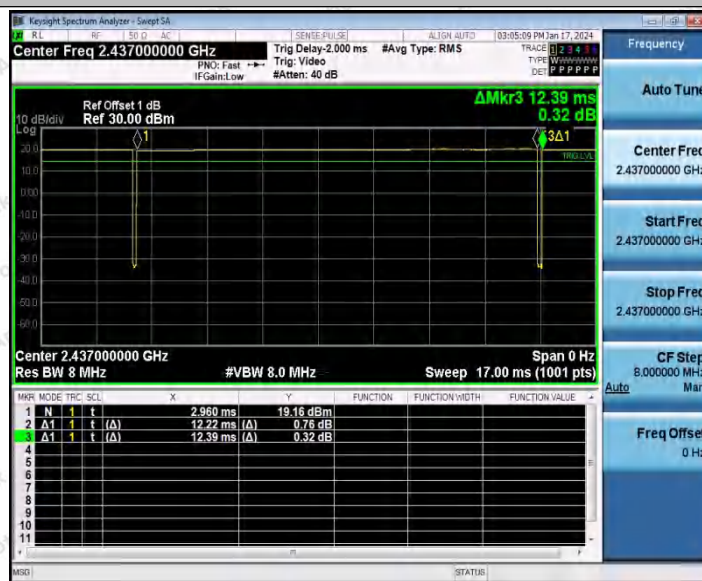


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

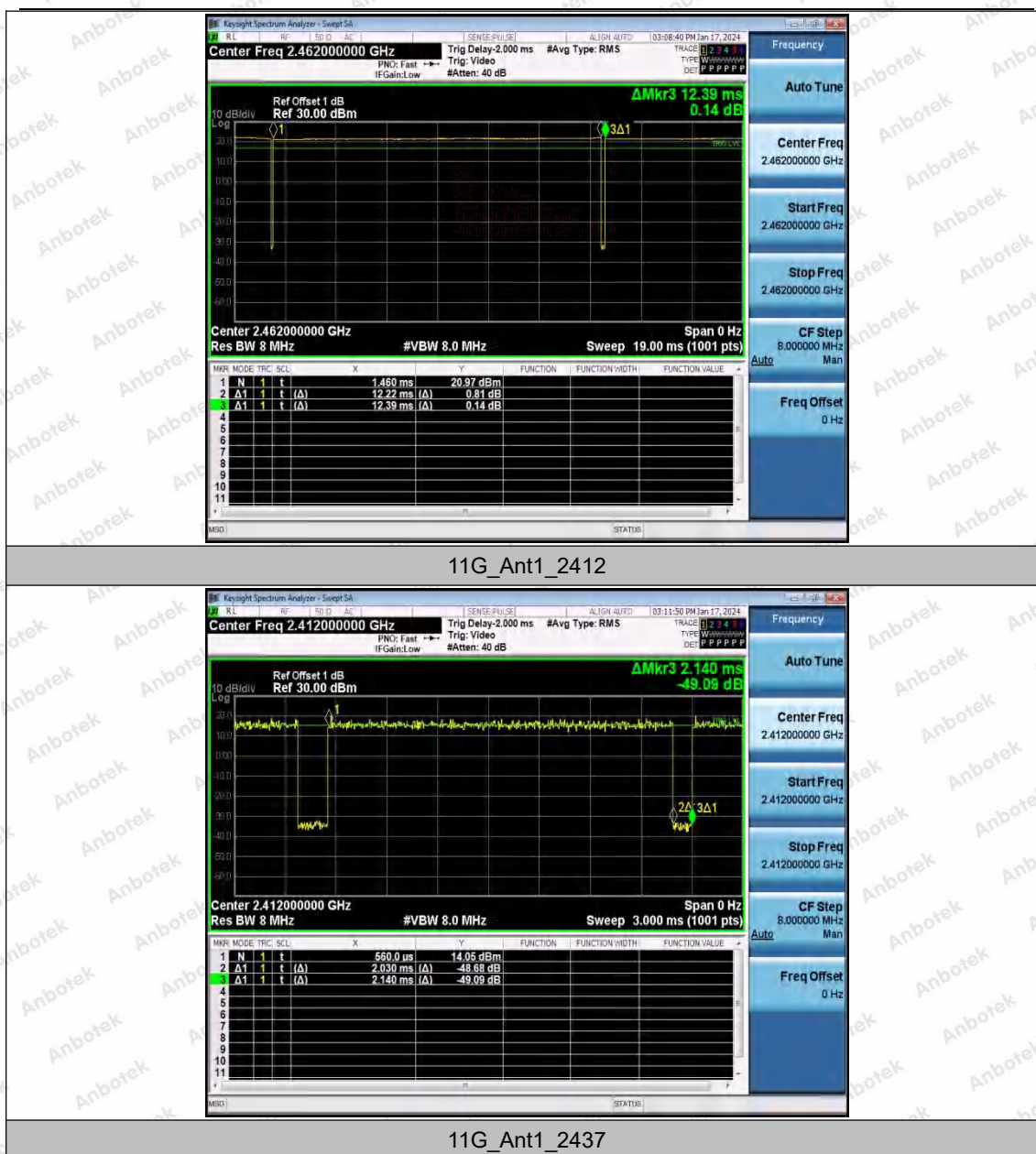
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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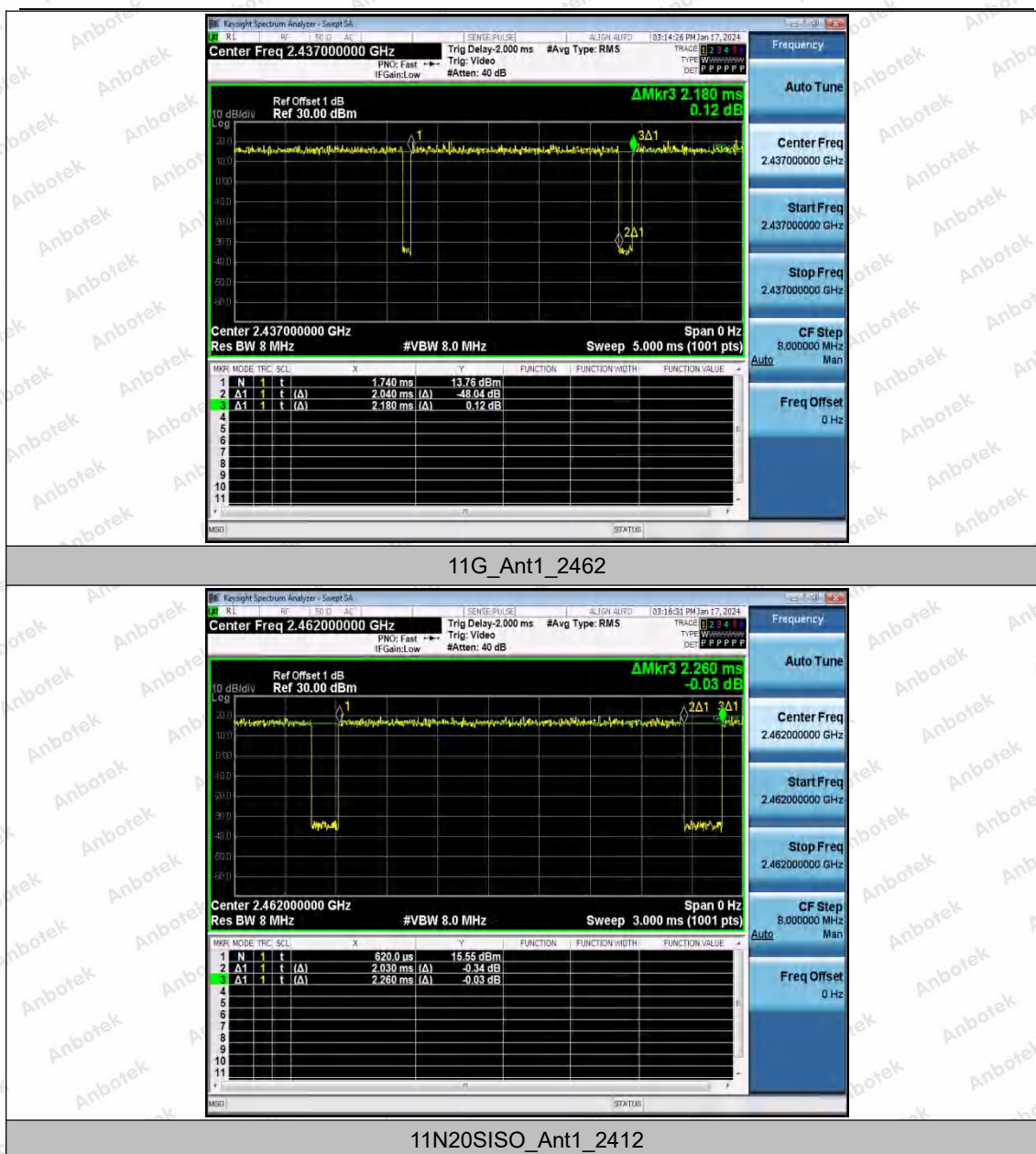
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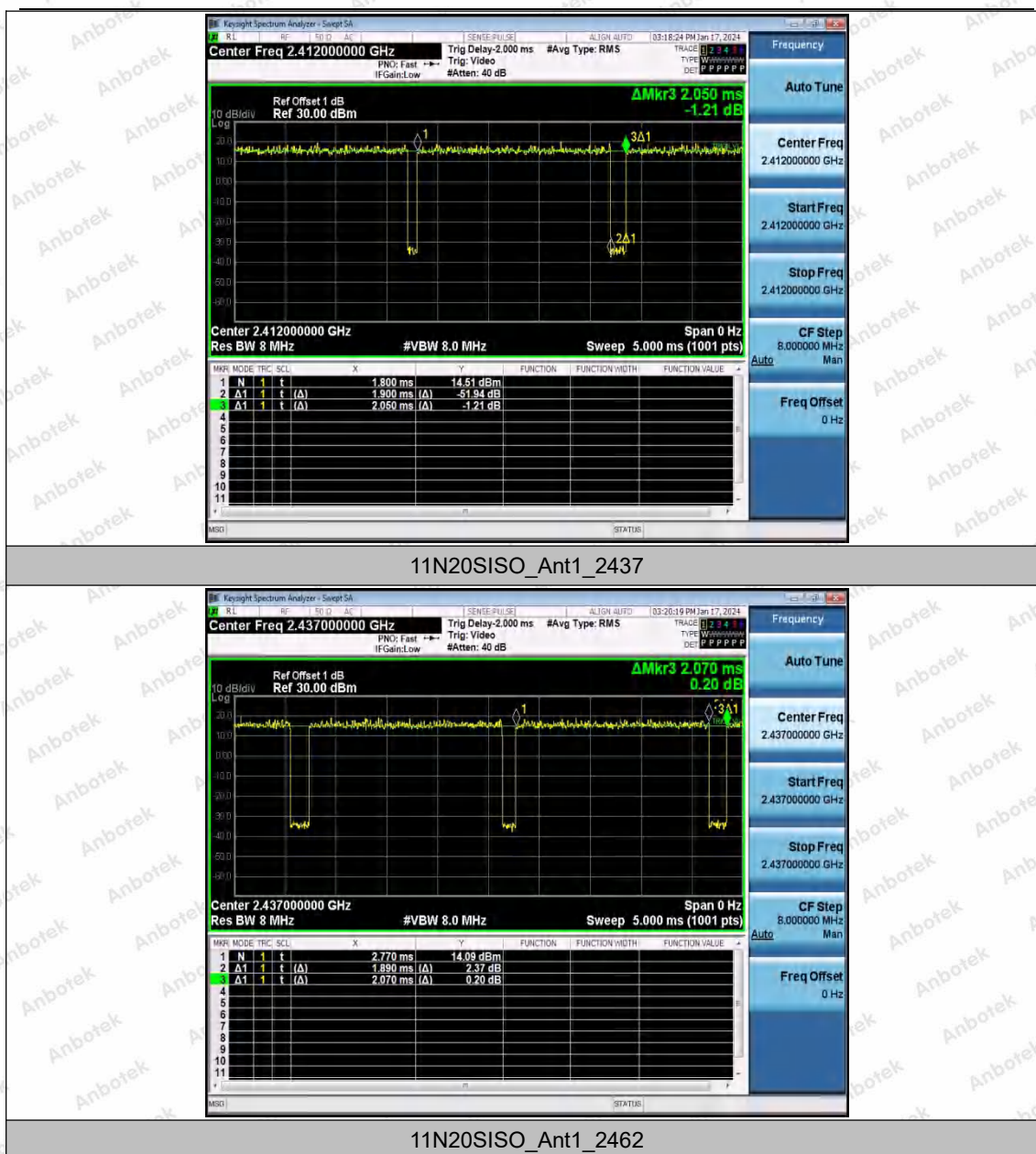
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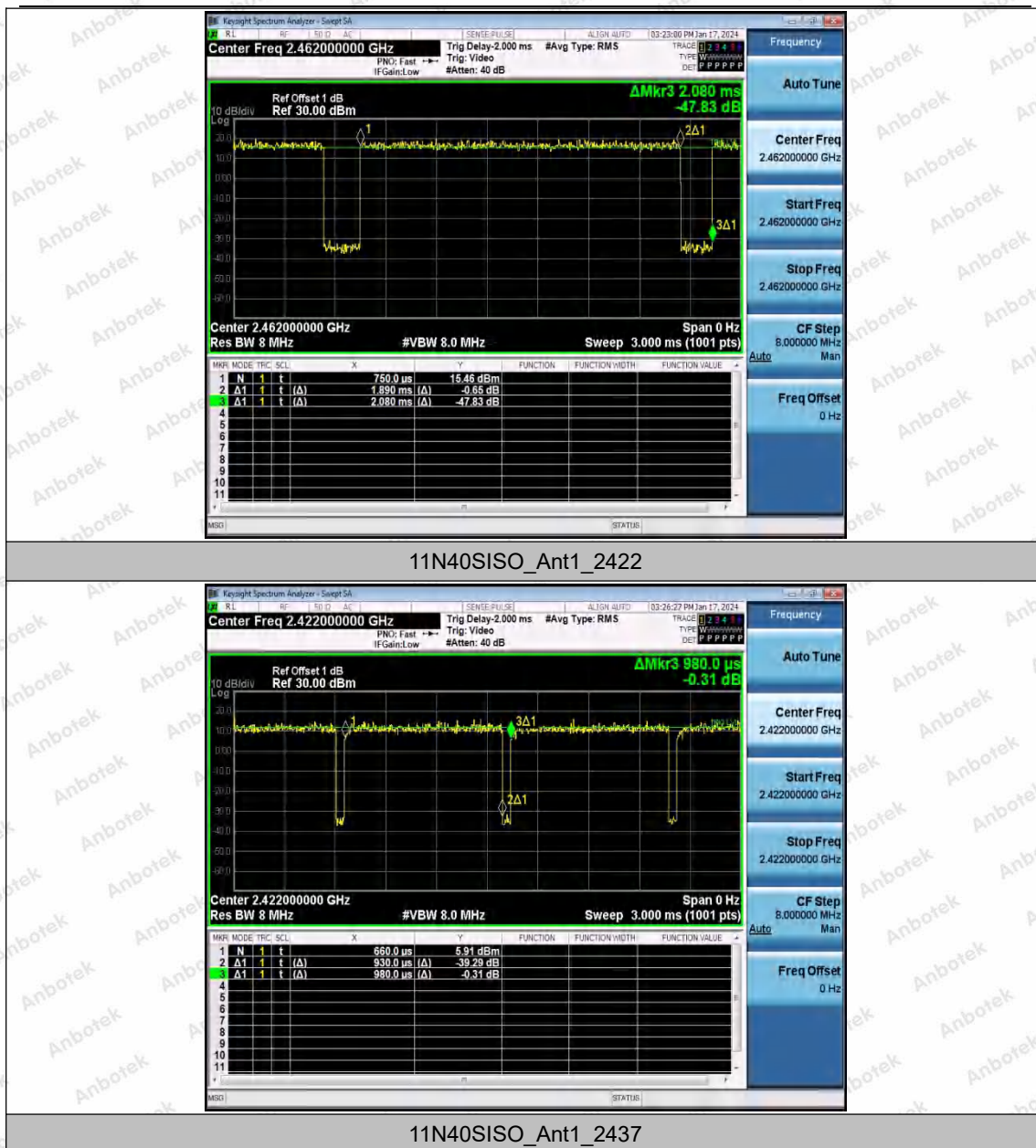
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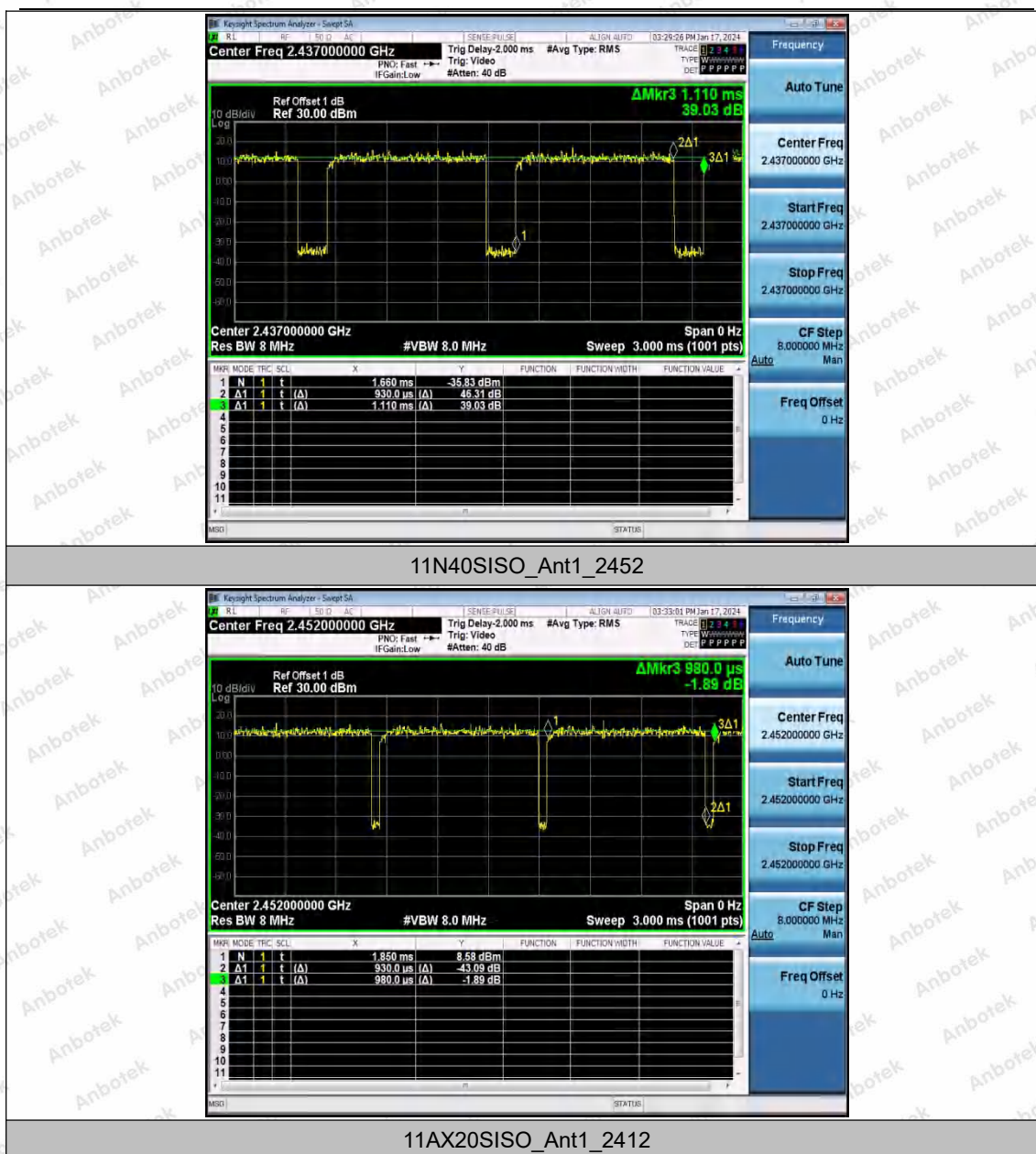
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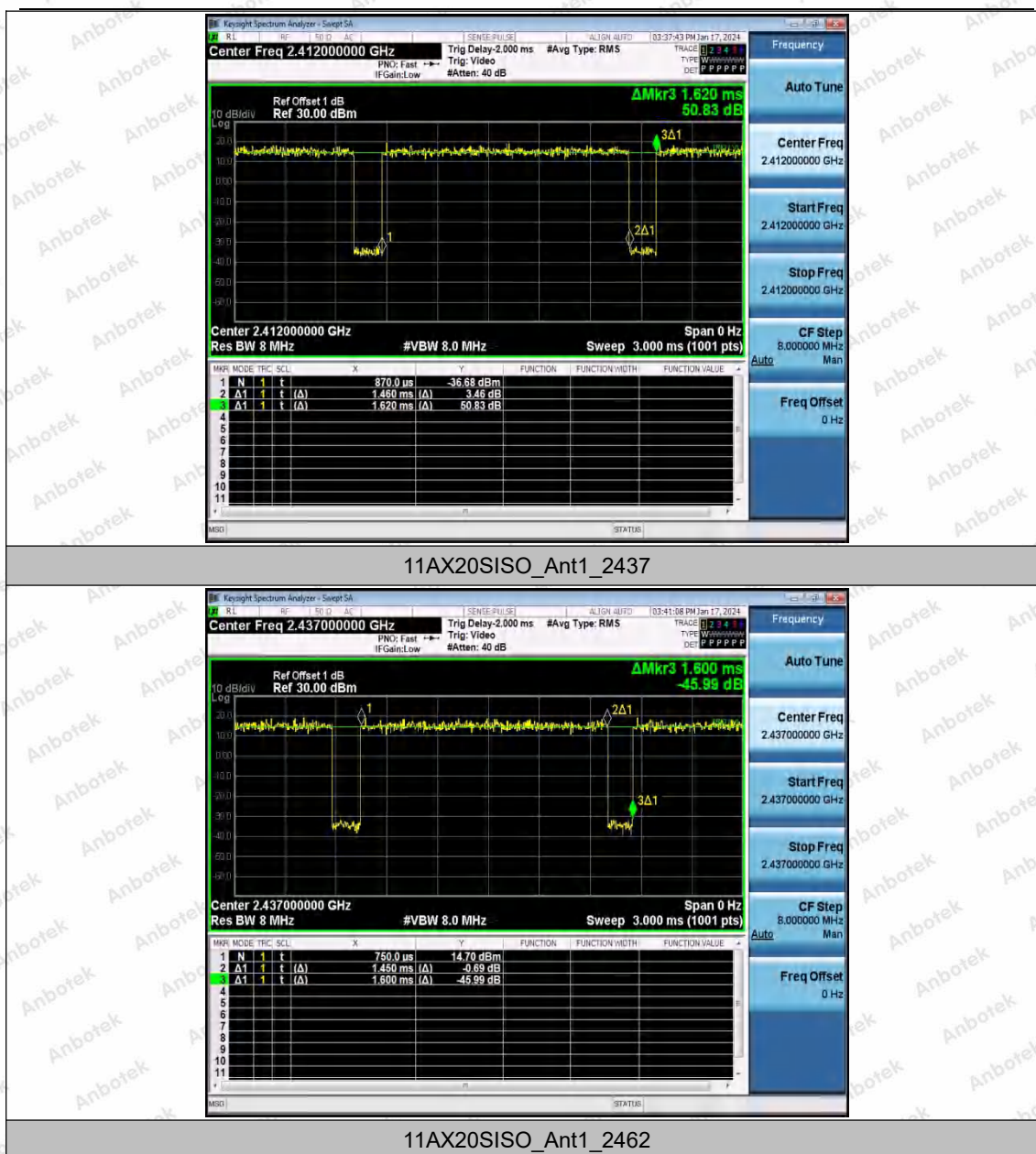
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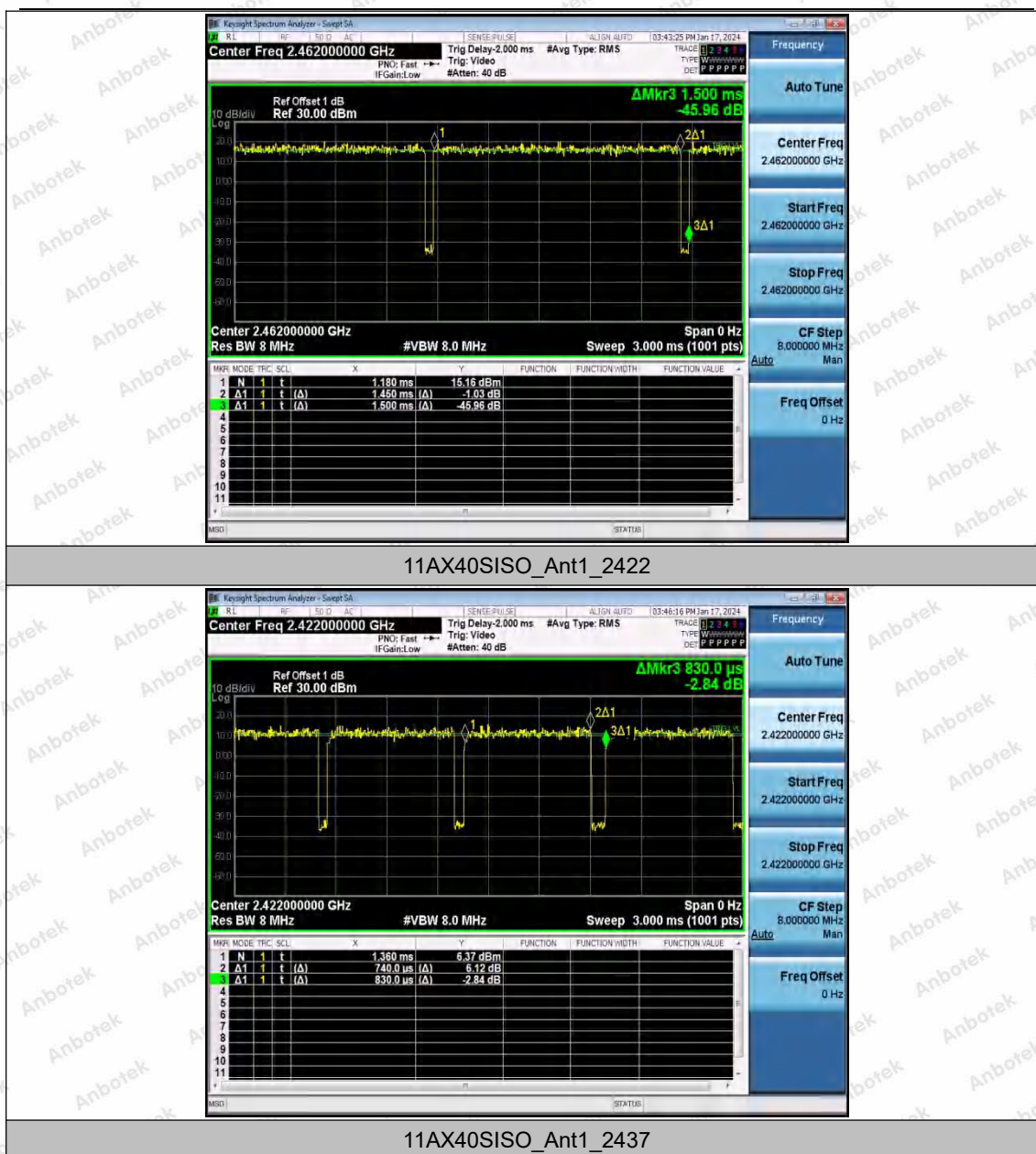
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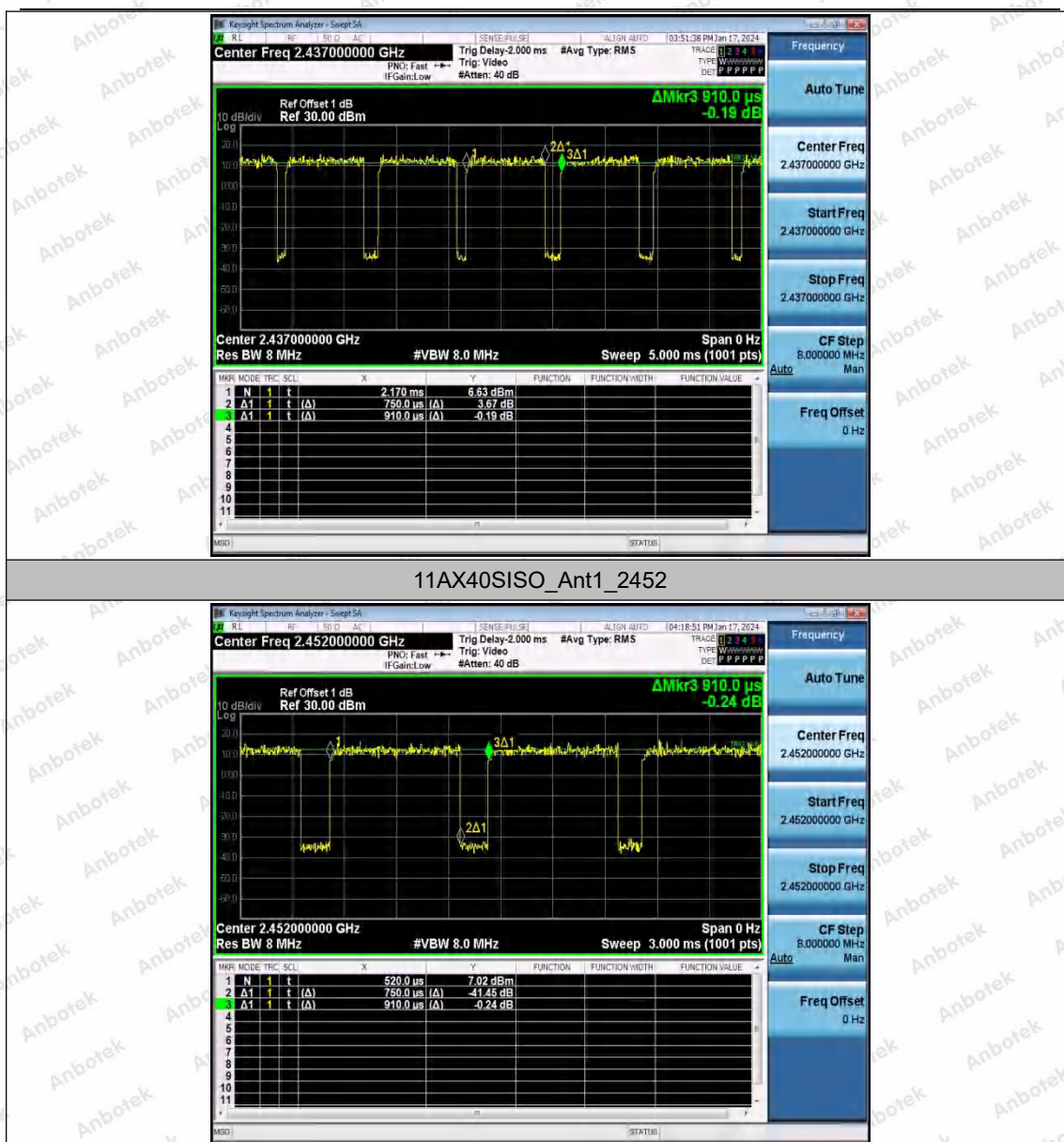
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