

11.5. APPENDIX E: BAND EDGE MEASUREMENTS

11.5.1. Test Result

RTL8733

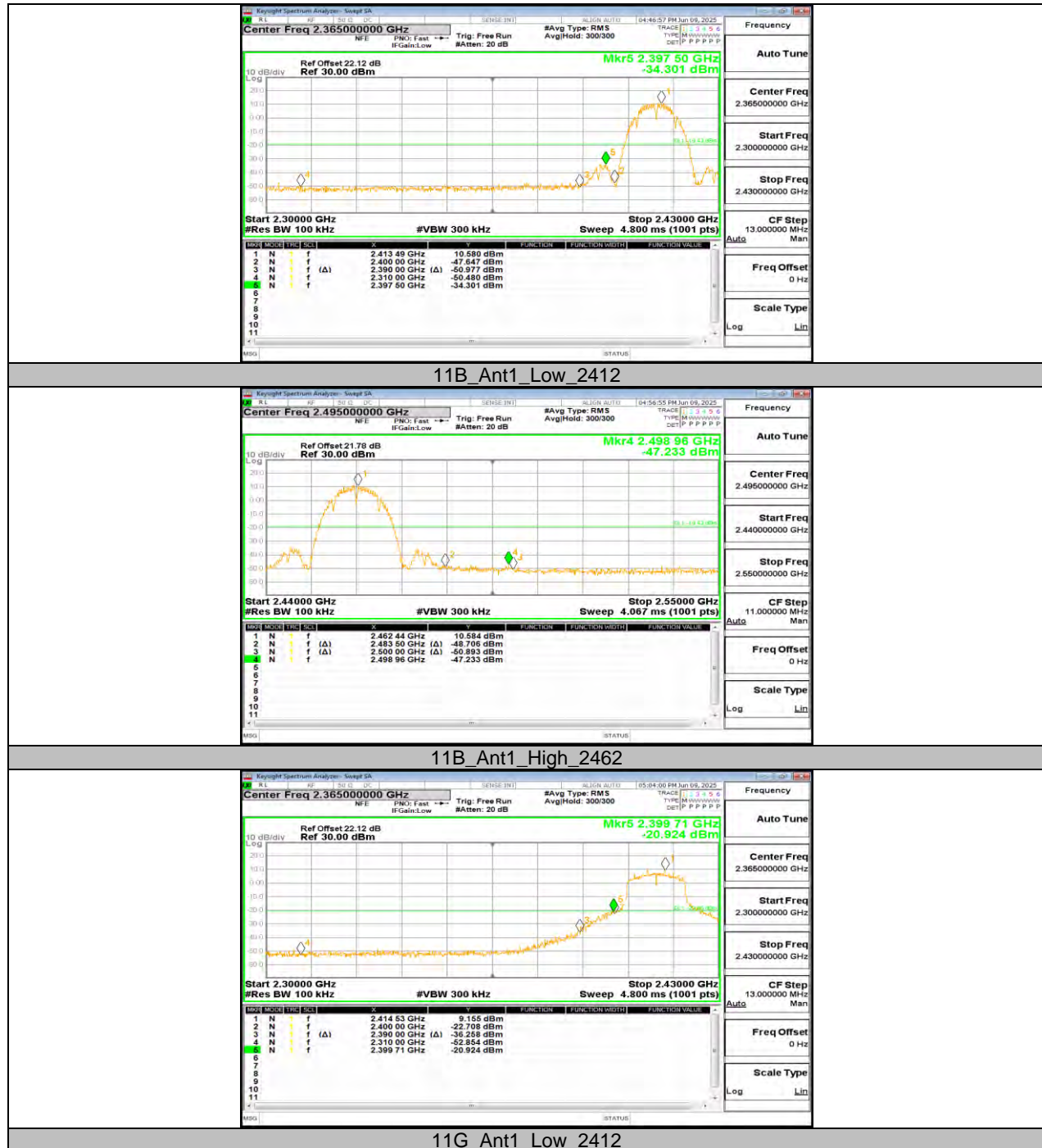
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	10.58	-34.3	≤-19.42	PASS
		High	2462	10.58	-47.23	≤-19.42	PASS
11G	Ant1	Low	2412	9.16	-20.92	≤-20.85	PASS
		High	2462	9.66	-33.19	≤-20.34	PASS
11N20SISO	Ant1	Low	2412	10.28	-20.12	≤-19.72	PASS
		High	2462	7.80	-31.66	≤-22.2	PASS

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Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	10.00	-27.58	≤-20	PASS
	Ant2	Low	2412	9.38	-27.49	≤-20.62	PASS
	Ant1	High	2462	10.92	-36.64	≤-19.08	PASS
	Ant2	High	2462	10.54	-37.23	≤-19.46	PASS
11G	Ant1	Low	2412	6.43	-25.54	≤-23.57	PASS
	Ant2	Low	2412	5.94	-26.74	≤-24.06	PASS
	Ant1	High	2462	7.07	-32.9	≤-22.94	PASS
	Ant2	High	2462	7.40	-28.44	≤-22.6	PASS
11N20MIMO	Ant1	Low	2412	5.99	-25.42	≤-24.01	PASS
	Ant2	Low	2412	5.88	-27.23	≤-24.12	PASS
	Ant1	High	2462	4.47	-31.14	≤-25.53	PASS
	Ant2	High	2462	7.09	-27.29	≤-22.91	PASS

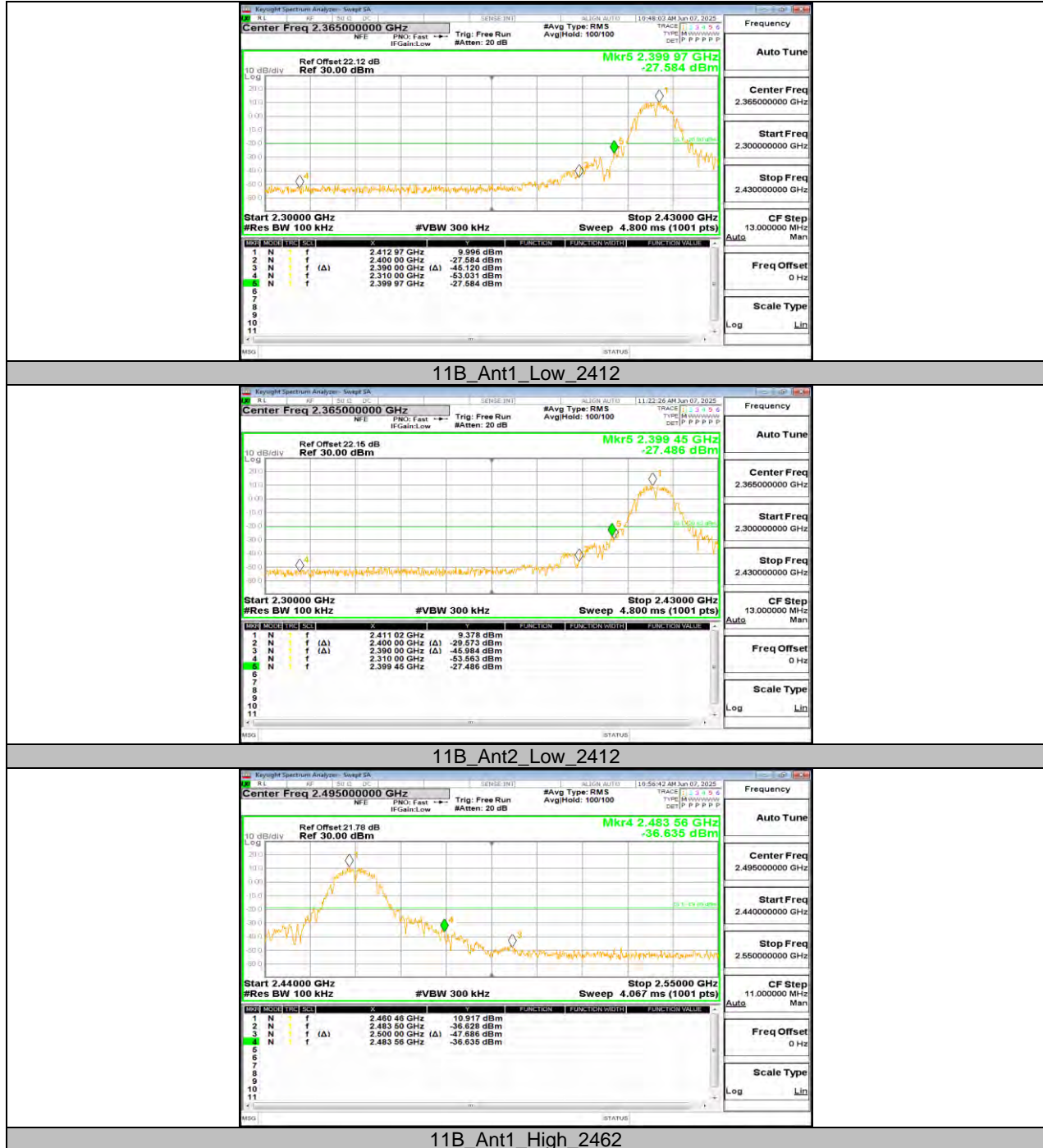
11.5.2. Test Graphs

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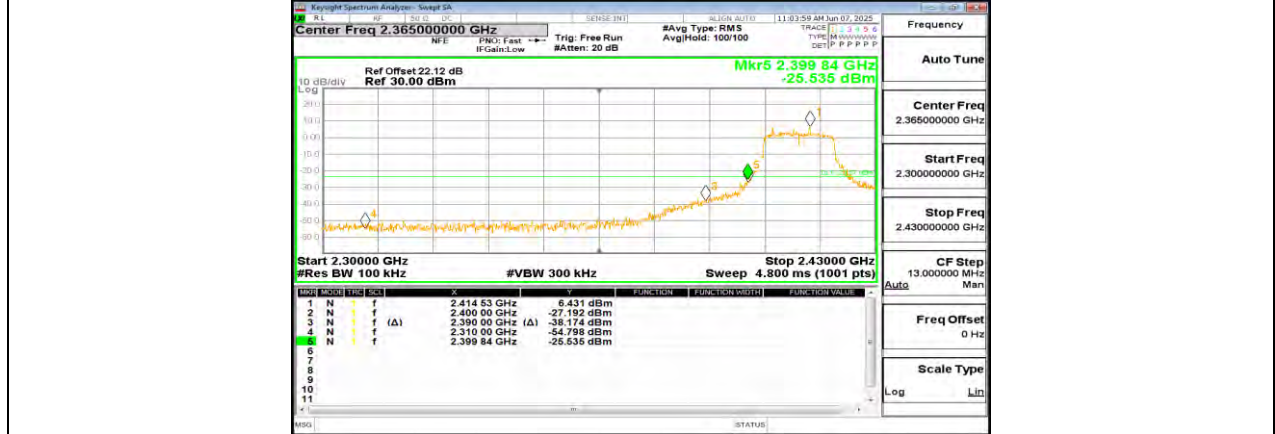


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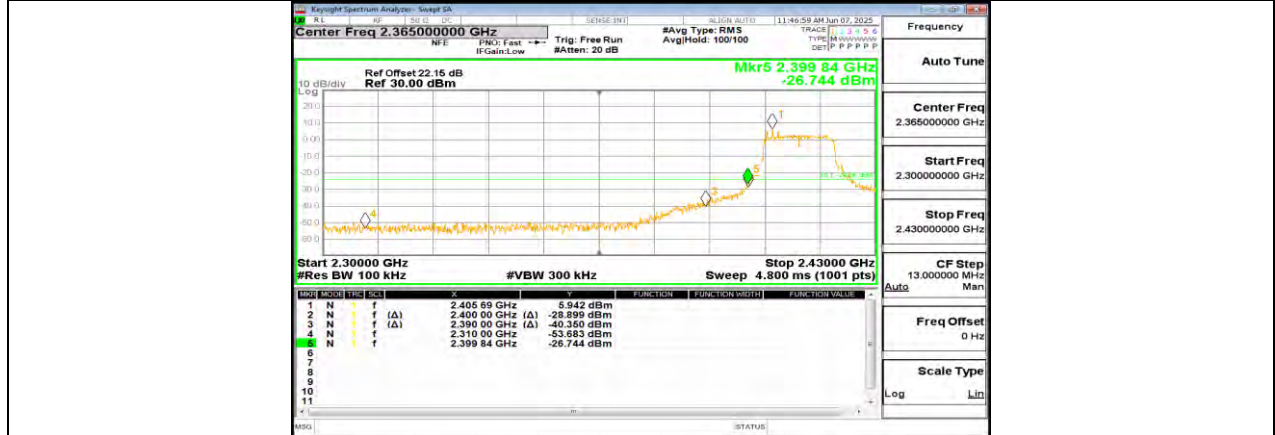




11B_Ant2_High_2462

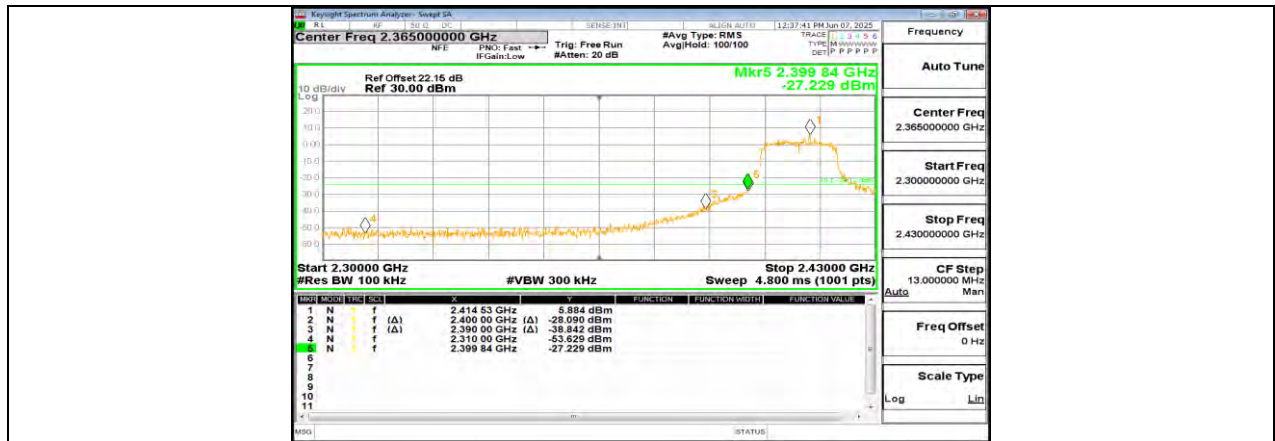


11G_Ant1_Low_2412

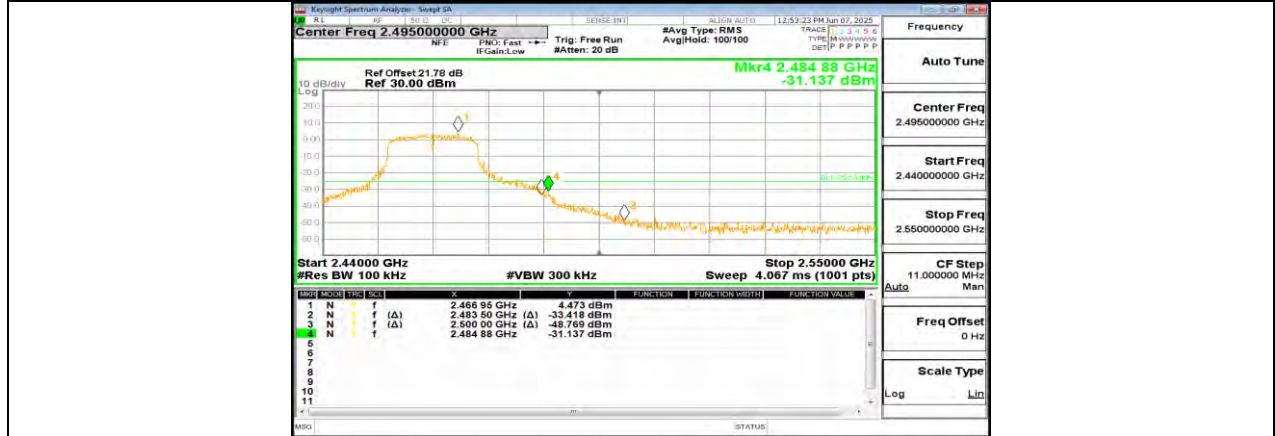


11G_Ant2_Low_2412

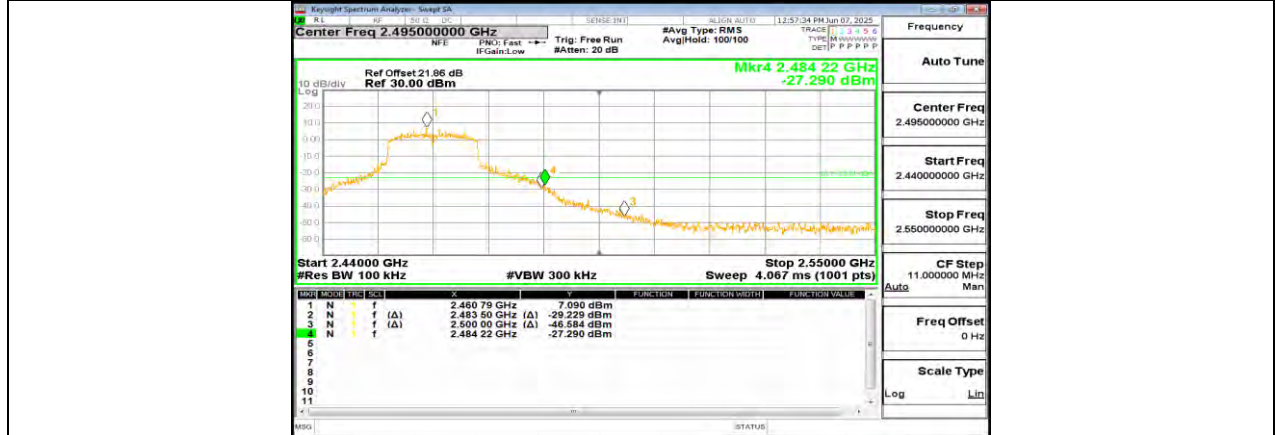




11N20MIMO_Ant2_Low_2412



11N20MIMO_Ant1_High_2462



11N20MIMO_Ant2_High_2462

11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

11.6.1. Test Result

RTL8733

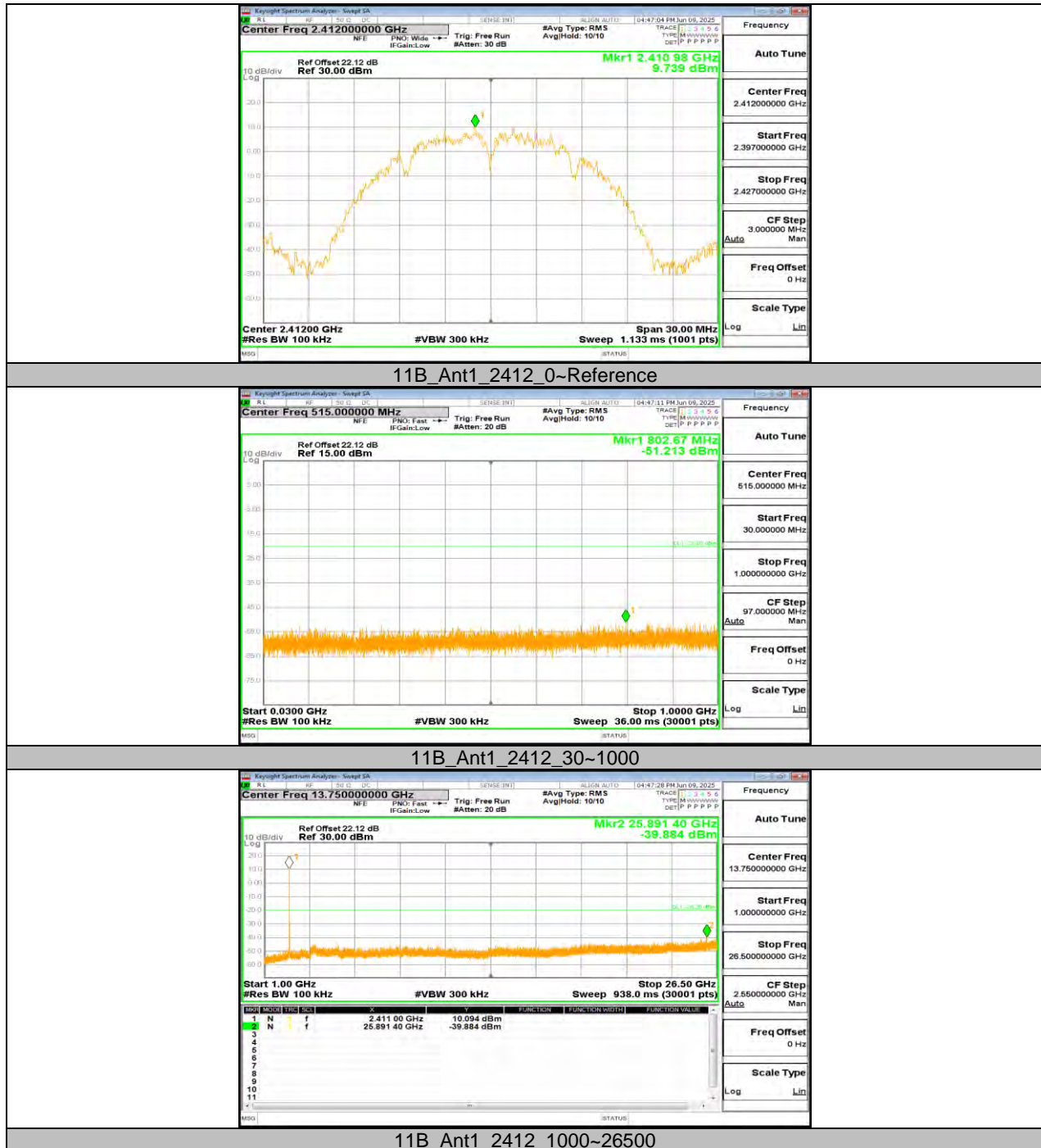
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.74	---	PASS
			30~1000	-51.21	≤ -20.26	PASS
			1000~26500	-39.88	≤ -20.26	PASS
		2437	Reference	10.10	---	PASS
			30~1000	-50.06	≤ -19.9	PASS
			1000~26500	-41.51	≤ -19.9	PASS
		2462	Reference	9.56	---	PASS
			30~1000	-50.97	≤ -20.44	PASS
			1000~26500	-41.56	≤ -20.44	PASS
11G	Ant1	2412	Reference	6.04	---	PASS
			30~1000	-50.54	≤ -23.96	PASS
			1000~26500	-41.32	≤ -23.96	PASS
		2437	Reference	5.79	---	PASS
			30~1000	-51.35	≤ -24.21	PASS
			1000~26500	-40.07	≤ -24.21	PASS
		2462	Reference	5.92	---	PASS
			30~1000	-51.72	≤ -24.08	PASS
			1000~26500	-41.59	≤ -24.08	PASS
11N20SISO	Ant1	2412	Reference	6.37	---	PASS
			30~1000	-50.46	≤ -23.63	PASS
			1000~26500	-40.84	≤ -23.63	PASS
		2437	Reference	5.81	---	PASS
			30~1000	-51.68	≤ -24.19	PASS
			1000~26500	-41.62	≤ -24.19	PASS
		2462	Reference	5.82	---	PASS
			30~1000	-52.01	≤ -24.18	PASS
			1000~26500	-41.07	≤ -24.18	PASS

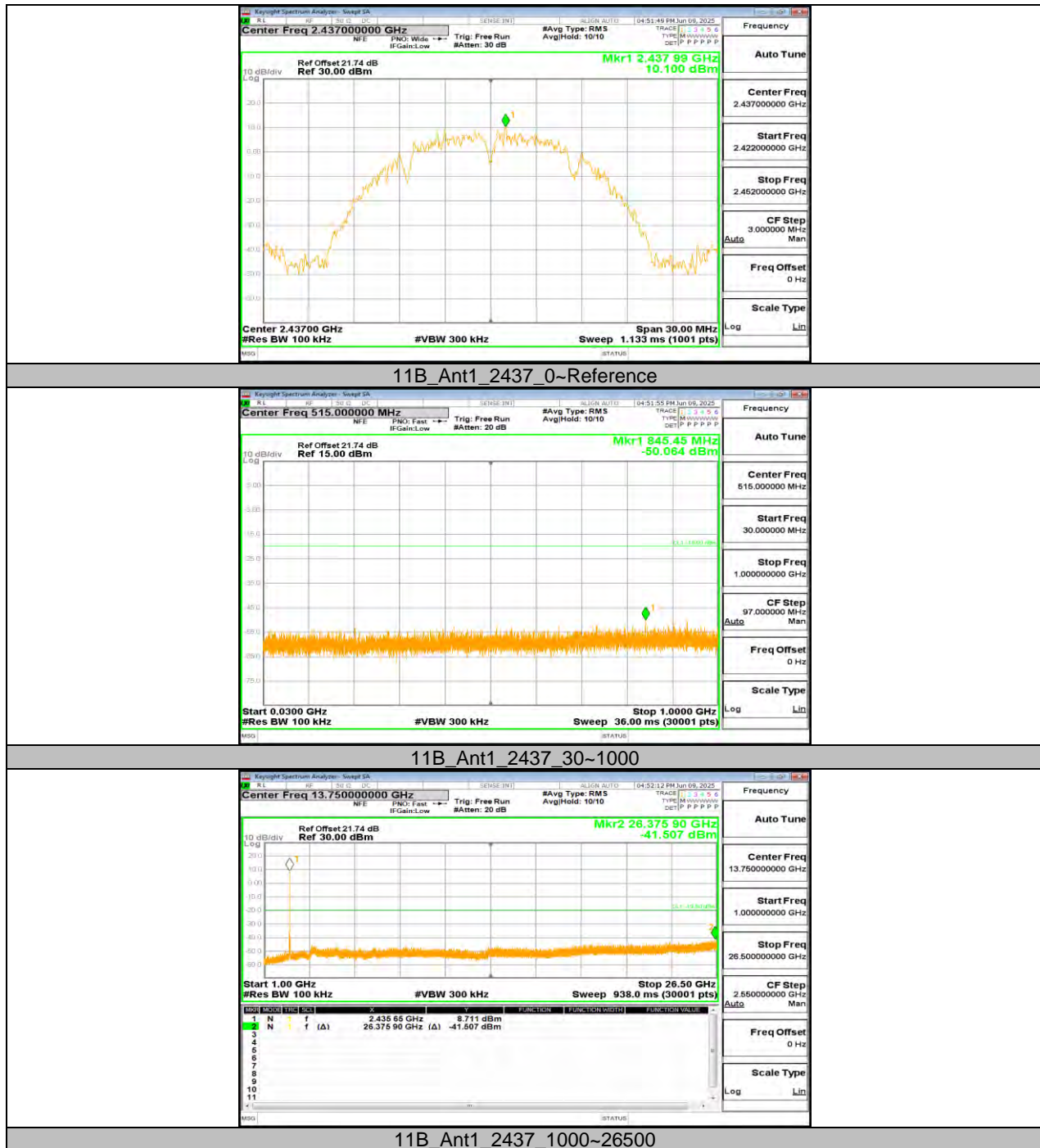
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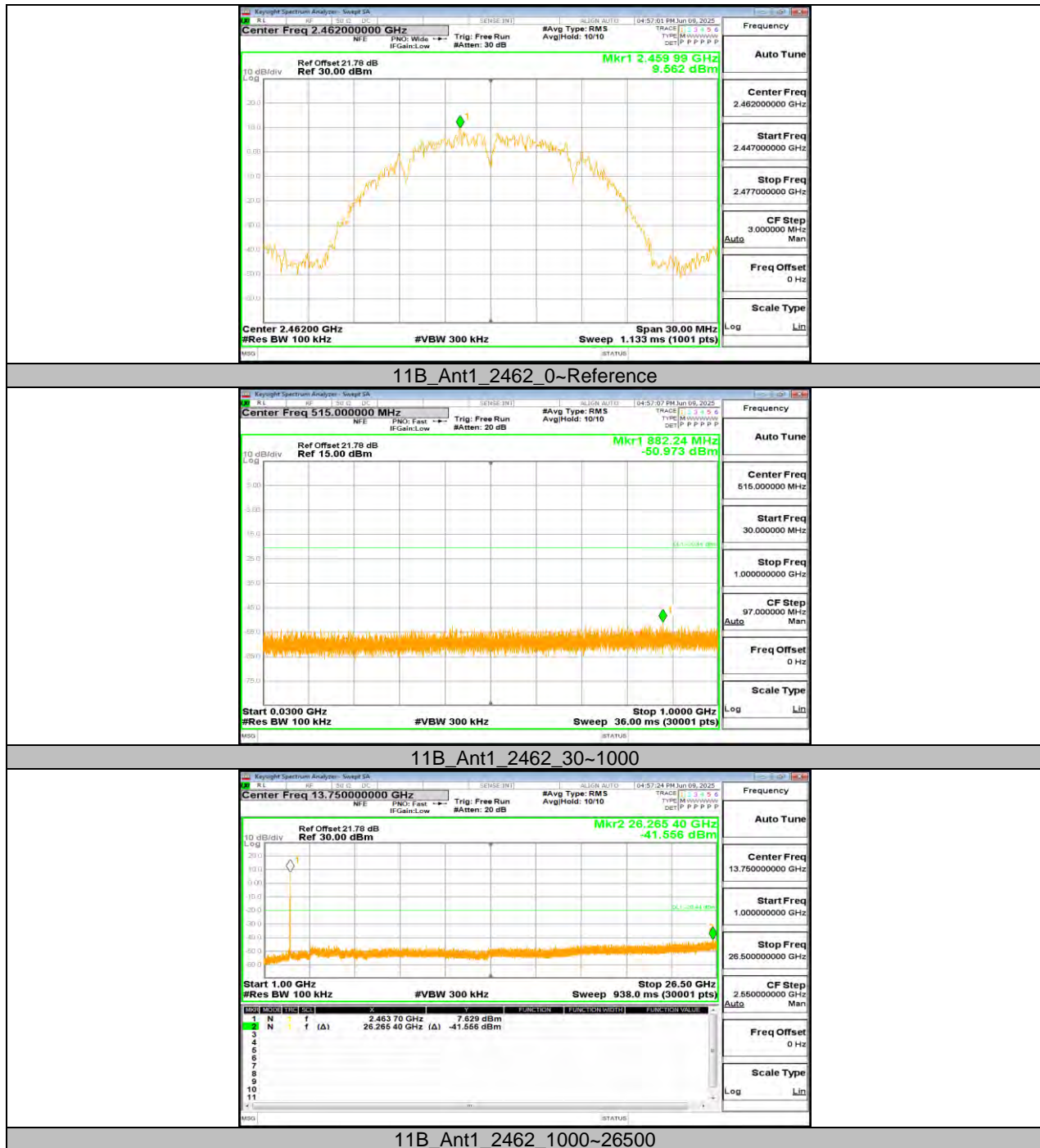
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.35	---	PASS
			30~1000	-50.05	≤-20.65	PASS
			1000~26500	-40.76	≤-20.65	PASS
	Ant2	2412	Reference	7.57	---	PASS
			30~1000	-50.23	≤-22.43	PASS
			1000~26500	-40.33	≤-22.43	PASS
	Ant1	2437	Reference	8.22	---	PASS
			30~1000	-51	≤-21.78	PASS
			1000~26500	-41.3	≤-21.78	PASS
	Ant2	2437	Reference	8.23	---	PASS
			30~1000	-50.97	≤-21.77	PASS
			1000~26500	-40.36	≤-21.77	PASS
	Ant1	2462	Reference	9.91	---	PASS
			30~1000	-50.72	≤-20.09	PASS
			1000~26500	-41.81	≤-20.09	PASS
	Ant2	2462	Reference	9.11	---	PASS
			30~1000	-50.98	≤-20.89	PASS
			1000~26500	-41.64	≤-20.89	PASS
11G	Ant1	2412	Reference	4.37	---	PASS
			30~1000	-50.74	≤-25.63	PASS
			1000~26500	-41.71	≤-25.63	PASS
	Ant2	2412	Reference	2.03	---	PASS
			30~1000	-51.07	≤-27.97	PASS
			1000~26500	-40.68	≤-27.97	PASS
	Ant1	2437	Reference	3.69	---	PASS
			30~1000	-50.93	≤-26.31	PASS
			1000~26500	-41.63	≤-26.31	PASS
	Ant2	2437	Reference	3.14	---	PASS
			30~1000	-50.65	≤-26.86	PASS
			1000~26500	-41.4	≤-26.86	PASS
	Ant1	2462	Reference	3.03	---	PASS
			30~1000	-50.94	≤-26.97	PASS
			1000~26500	-41.29	≤-26.97	PASS
	Ant2	2462	Reference	4.21	---	PASS
			30~1000	-49.94	≤-25.79	PASS
			1000~26500	-40.57	≤-25.79	PASS
11N20MIMO	Ant1	2412	Reference	5.89	---	PASS
			30~1000	-50.92	≤-24.11	PASS
			1000~26500	-41.45	≤-24.11	PASS
	Ant2	2412	Reference	4.01	---	PASS
			30~1000	-50.54	≤-25.99	PASS
			1000~26500	-38.92	≤-25.99	PASS
	Ant1	2437	Reference	5.22	---	PASS
			30~1000	-50.99	≤-24.78	PASS
			1000~26500	-39.79	≤-24.78	PASS
	Ant2	2437	Reference	2.58	---	PASS
			30~1000	-51.86	≤-27.42	PASS
			1000~26500	-40.4	≤-27.42	PASS
	Ant1	2462	Reference	2.49	---	PASS
			30~1000	-50.6	≤-27.51	PASS
			1000~26500	-40.54	≤-27.51	PASS
	Ant2	2462	Reference	7.28	---	PASS
			30~1000	-50.12	≤-22.72	PASS
			1000~26500	-40.56	≤-22.72	PASS

11.6.2. Test Graphs

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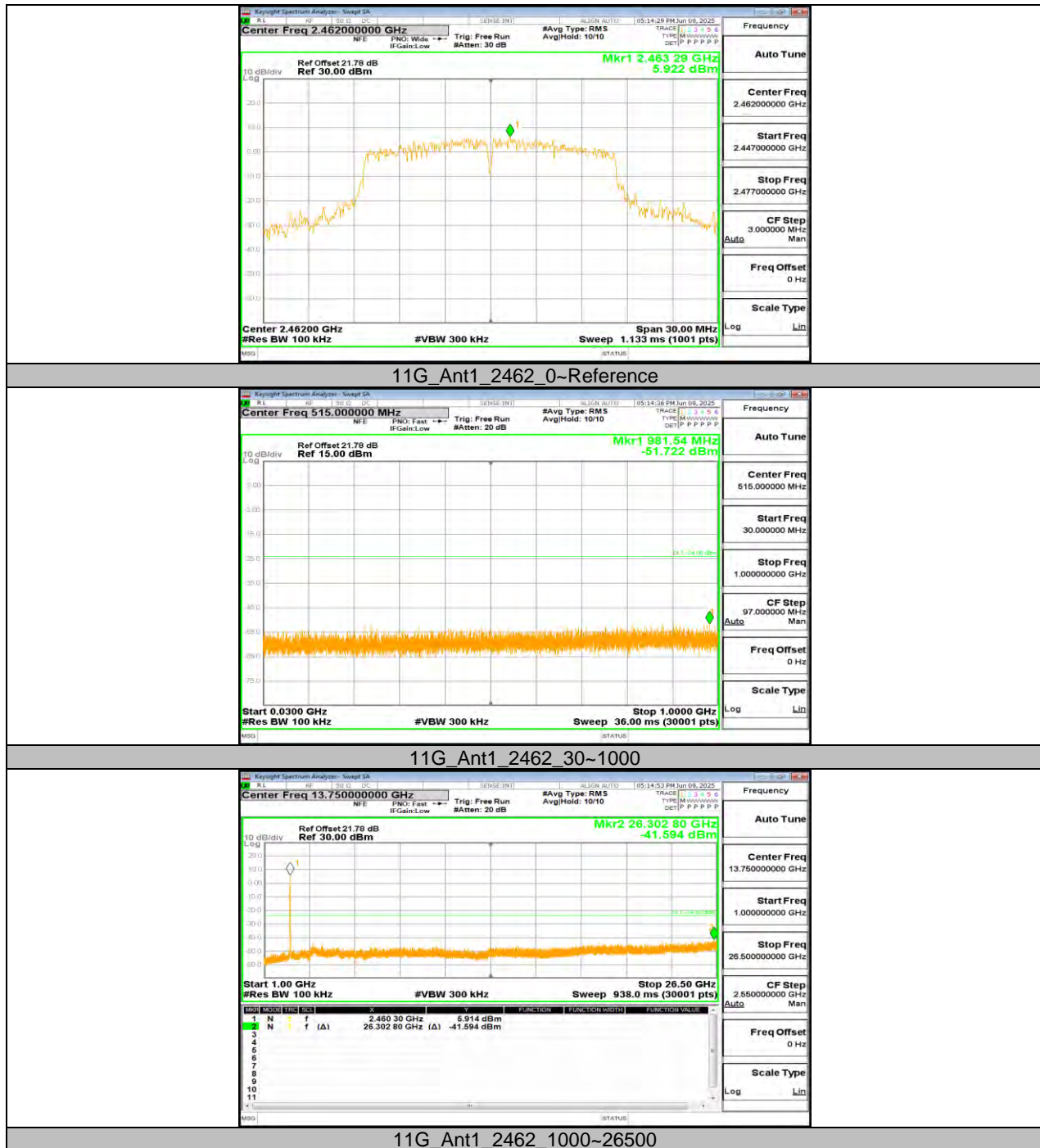






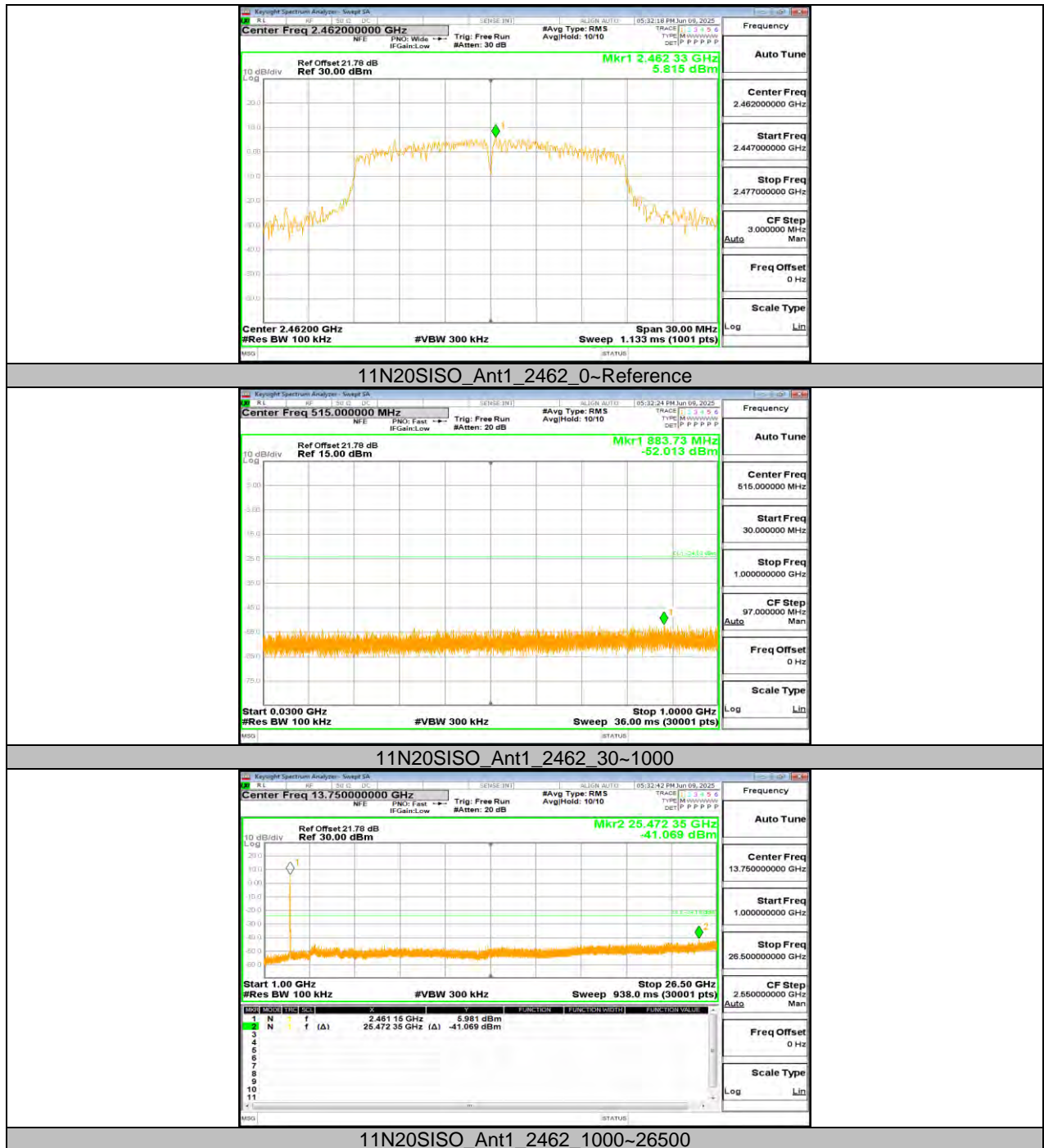




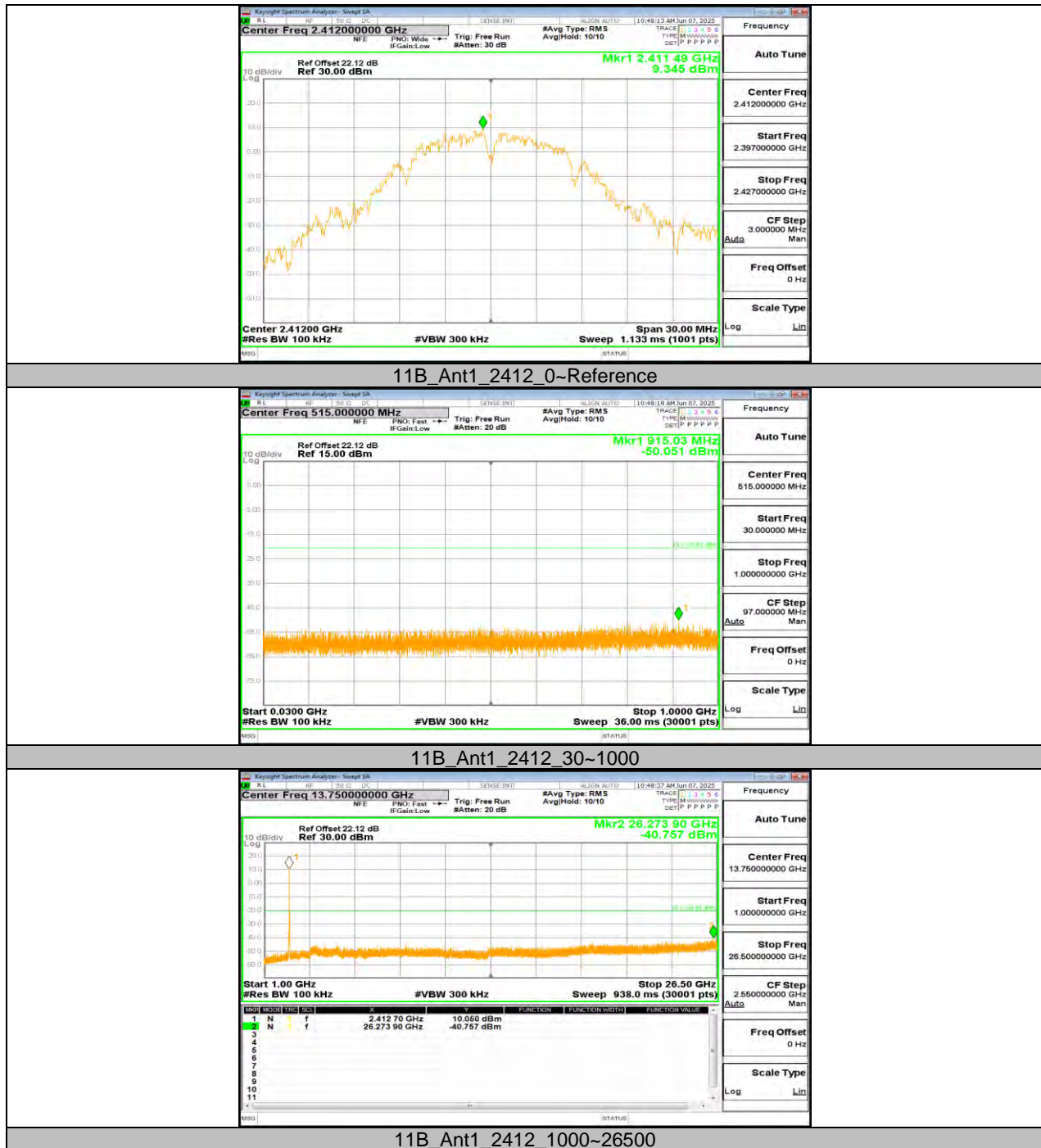


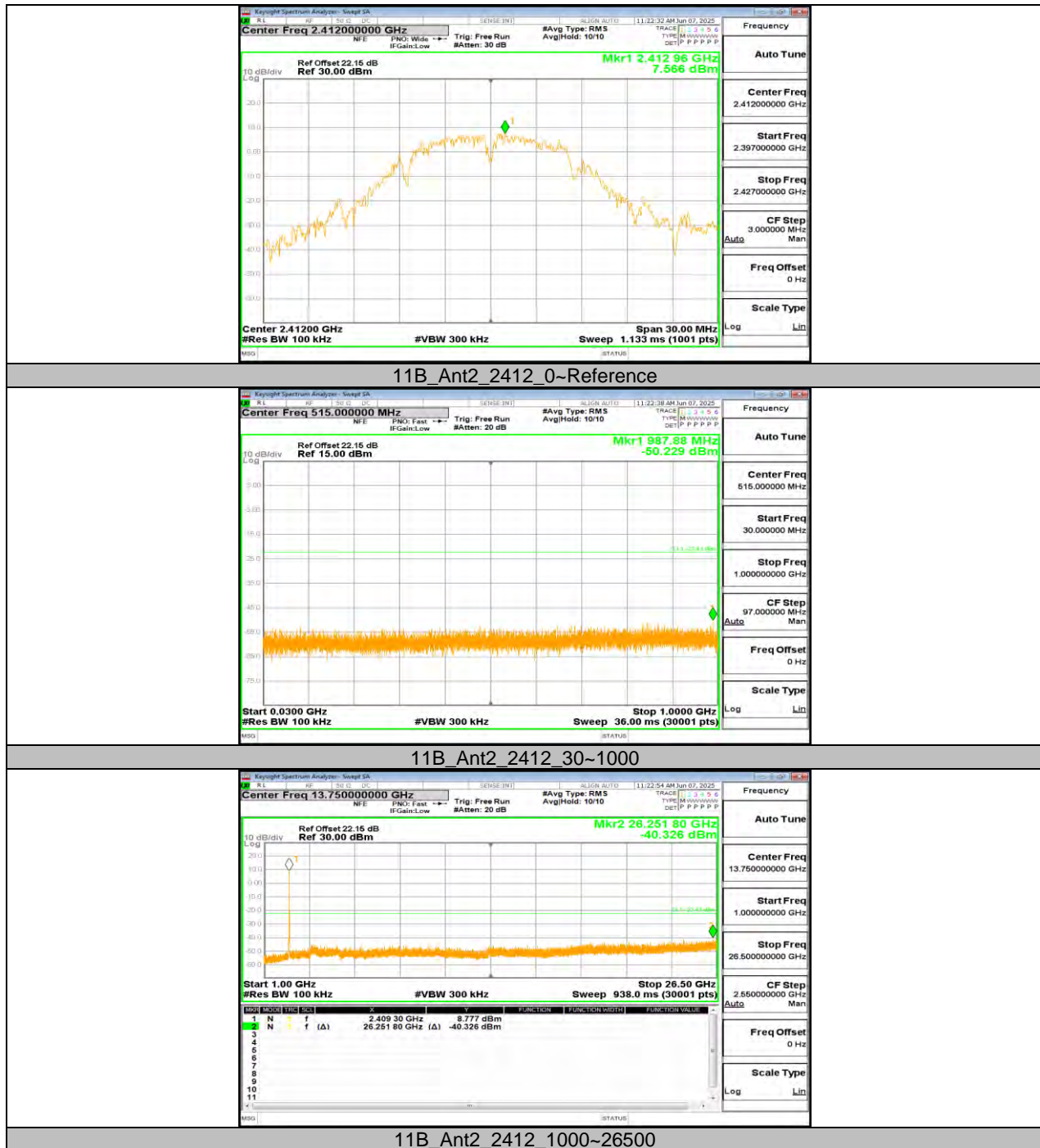


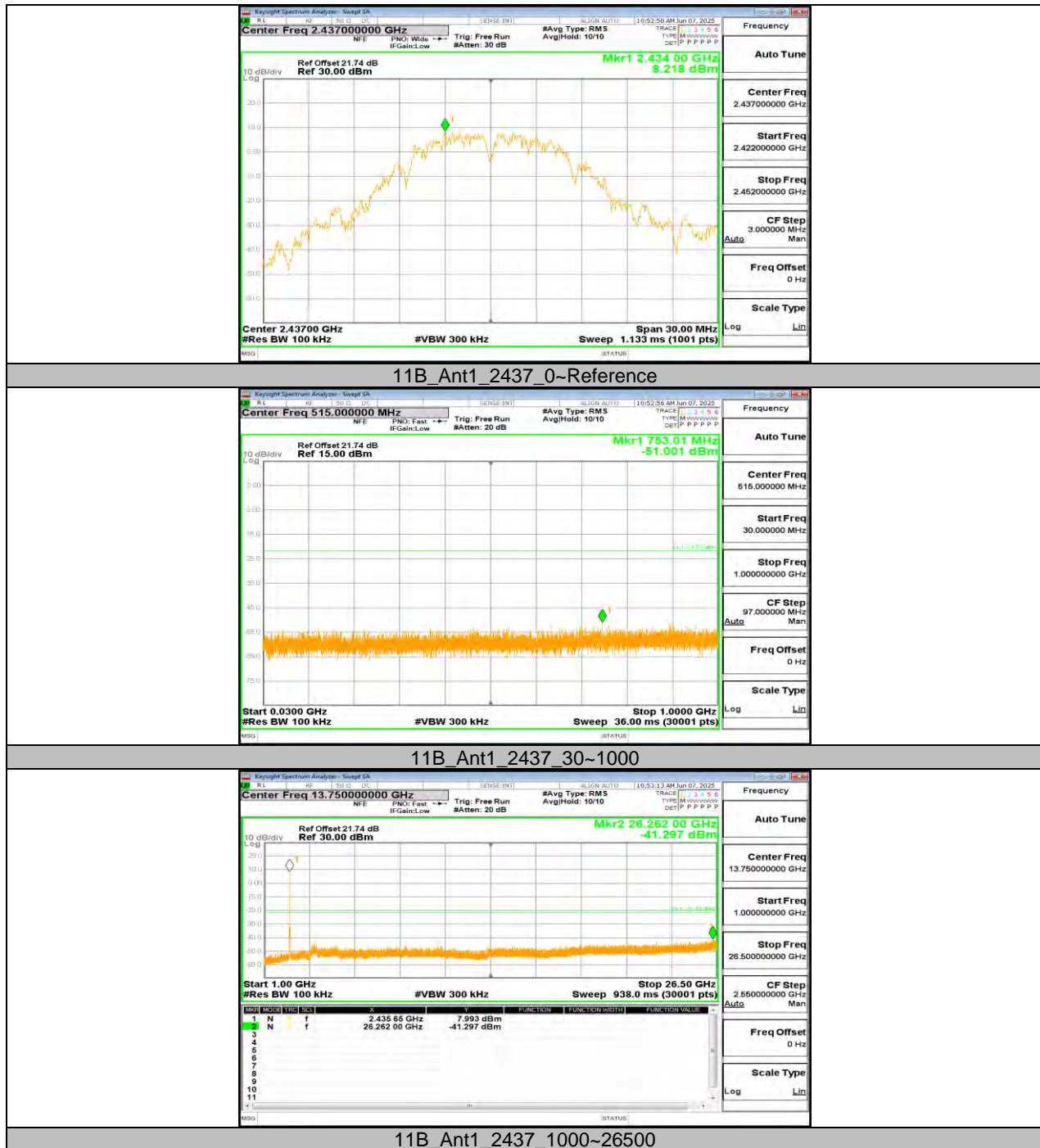


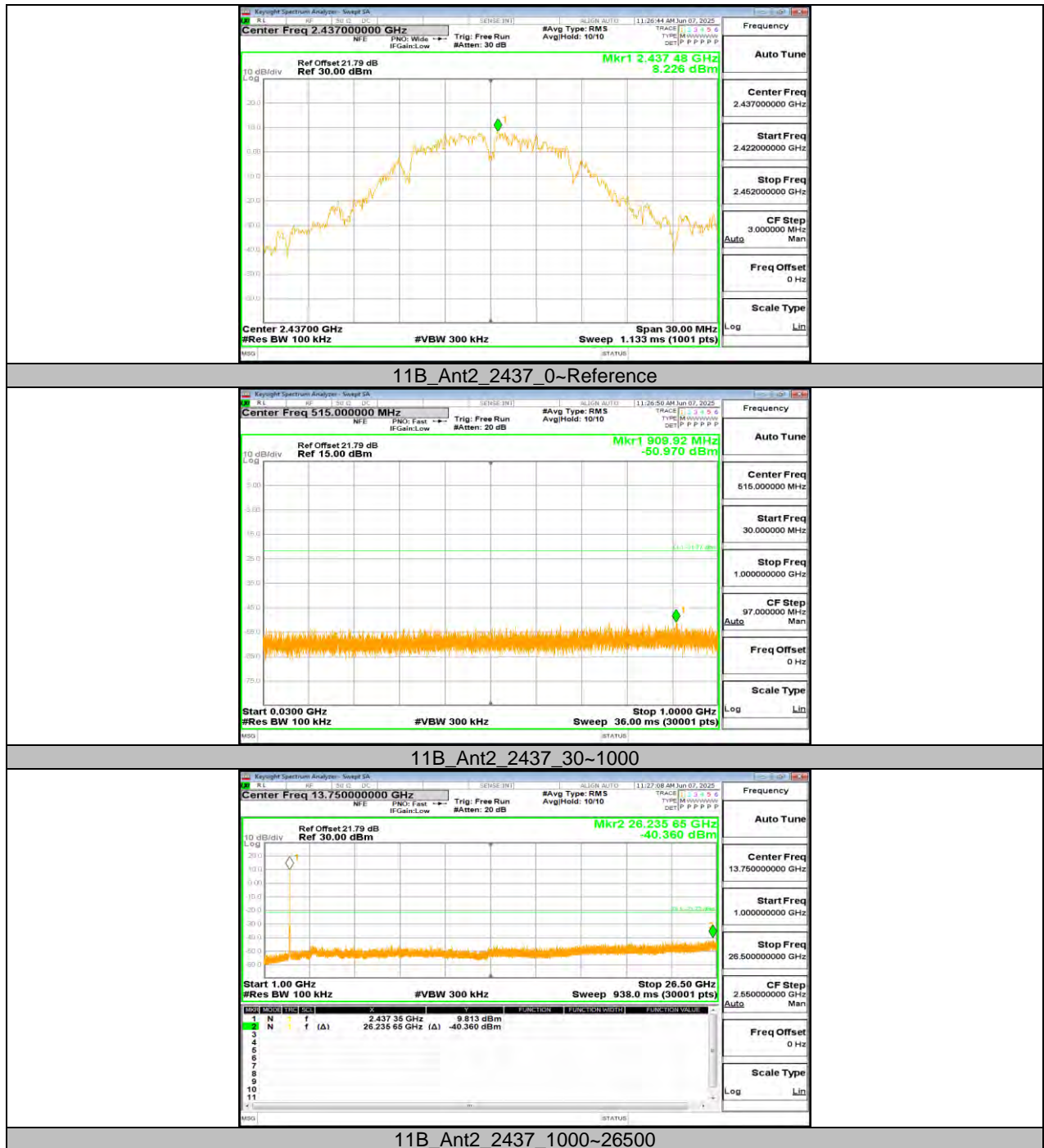


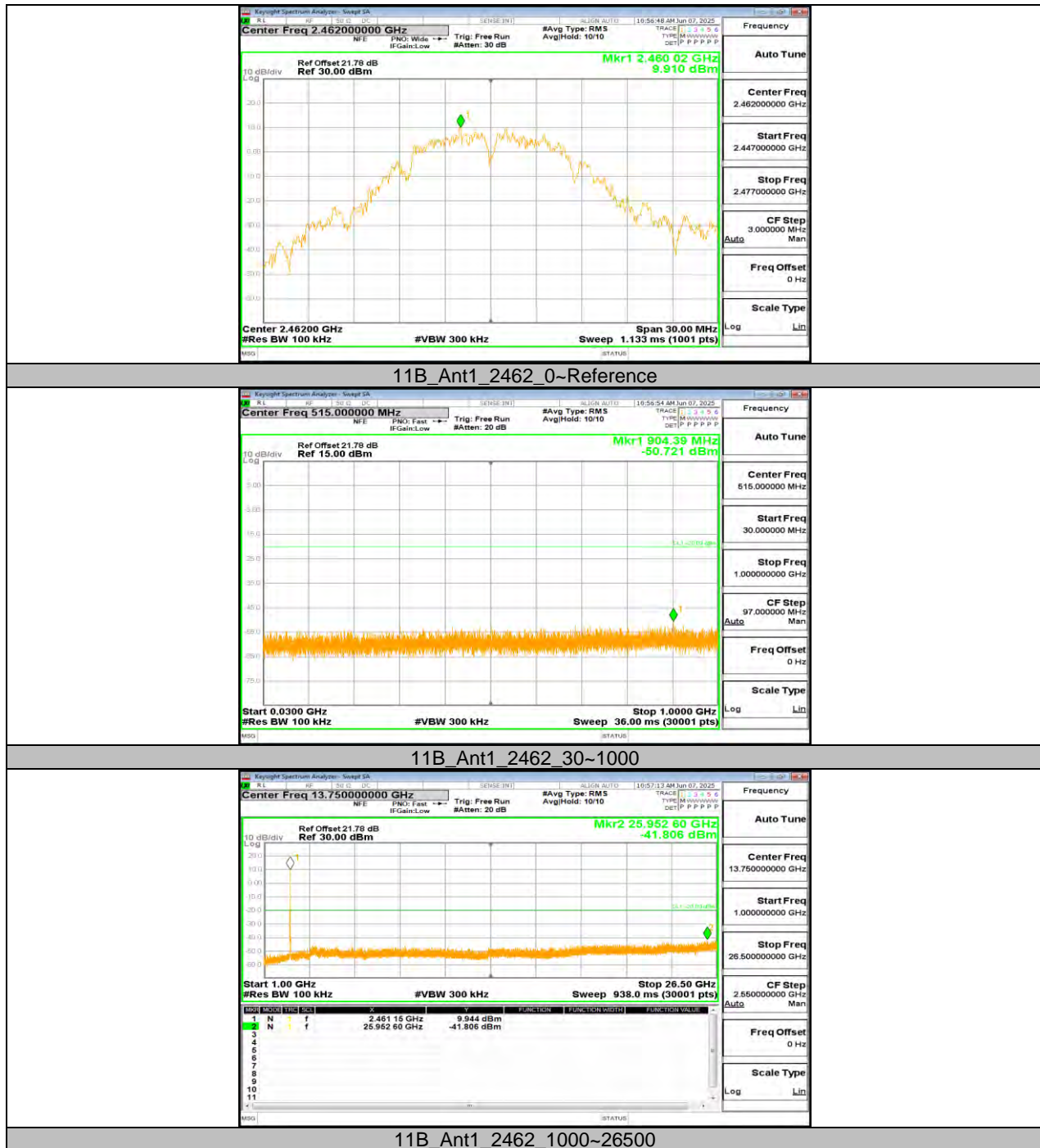
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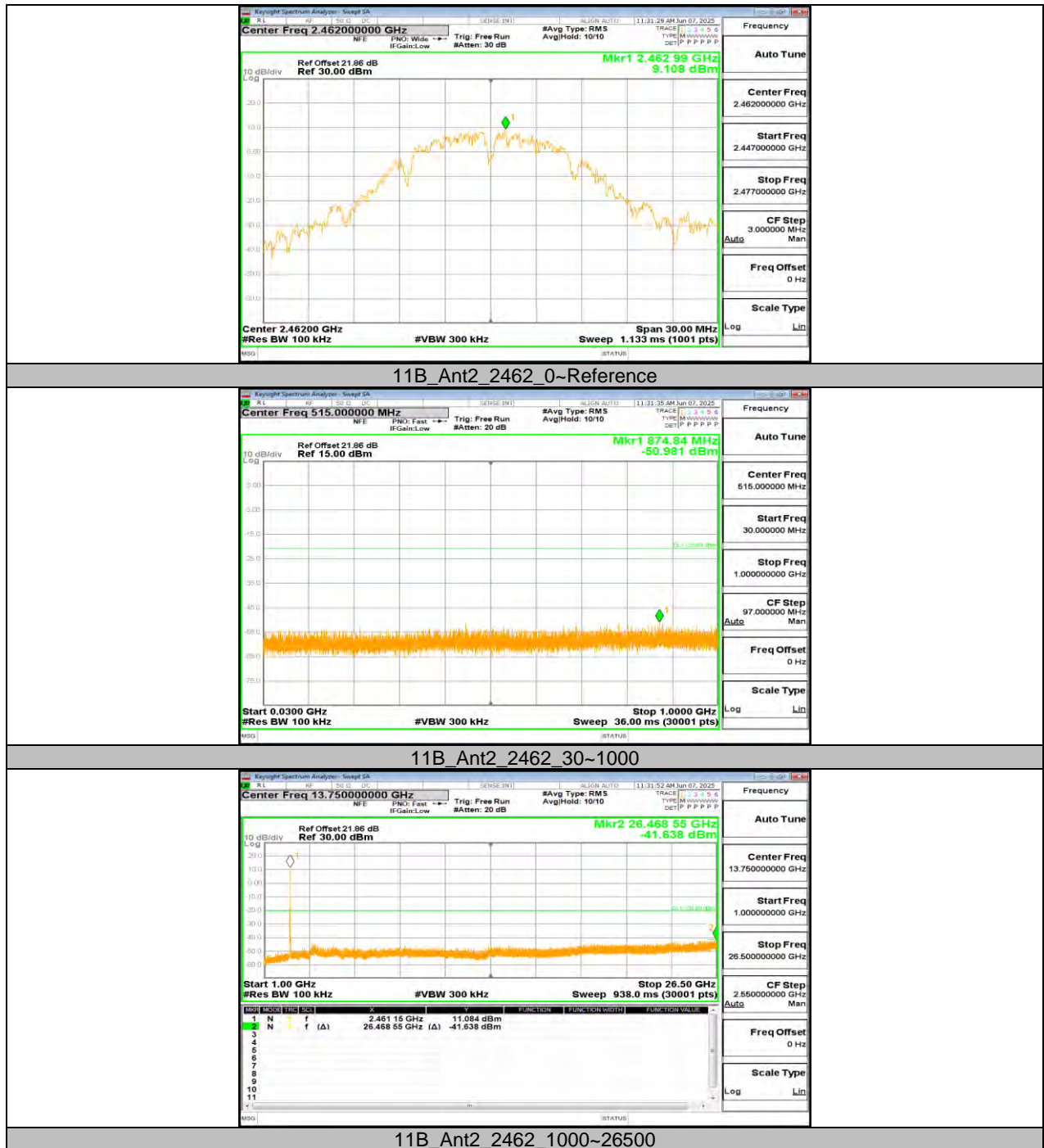






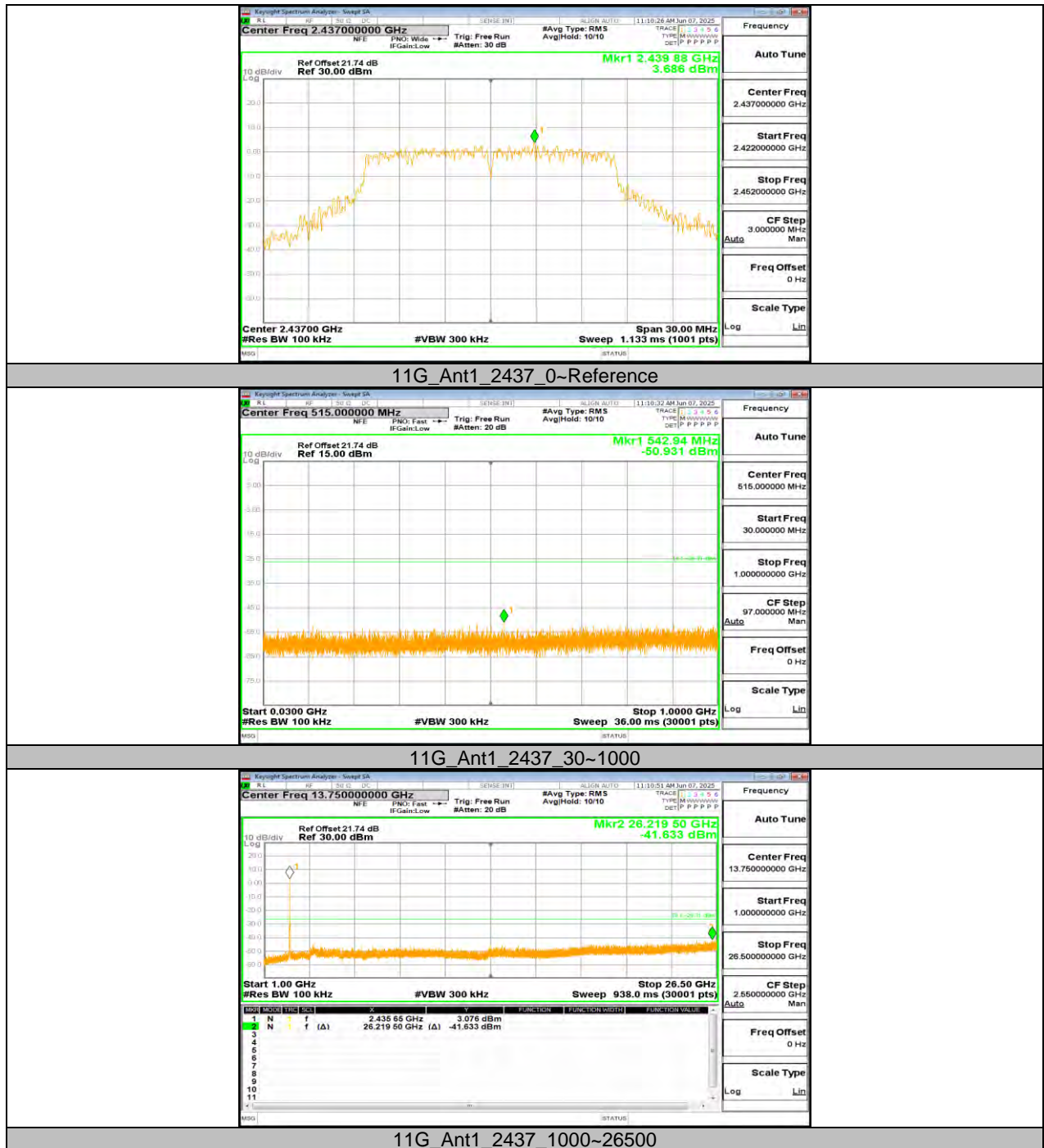


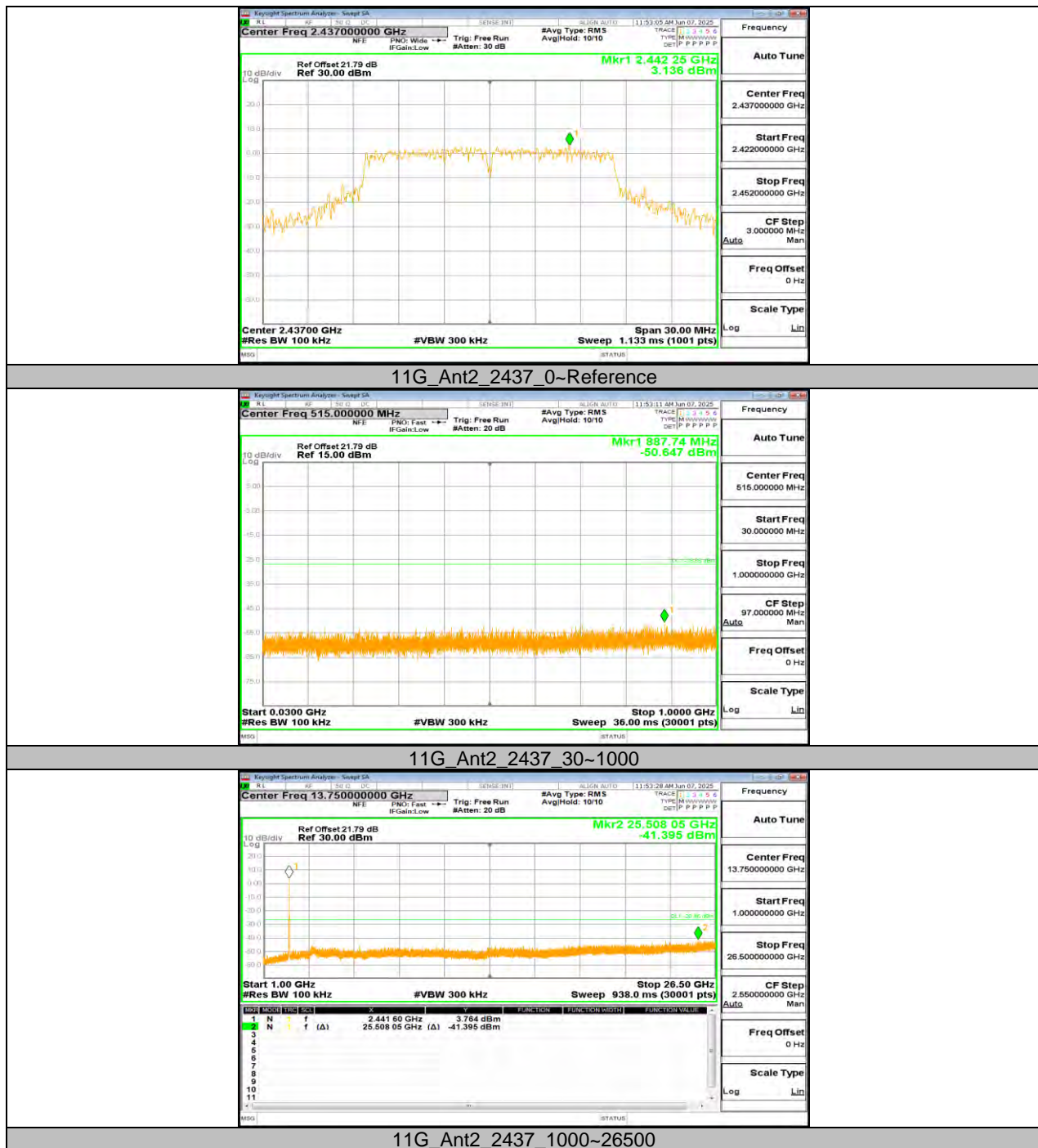


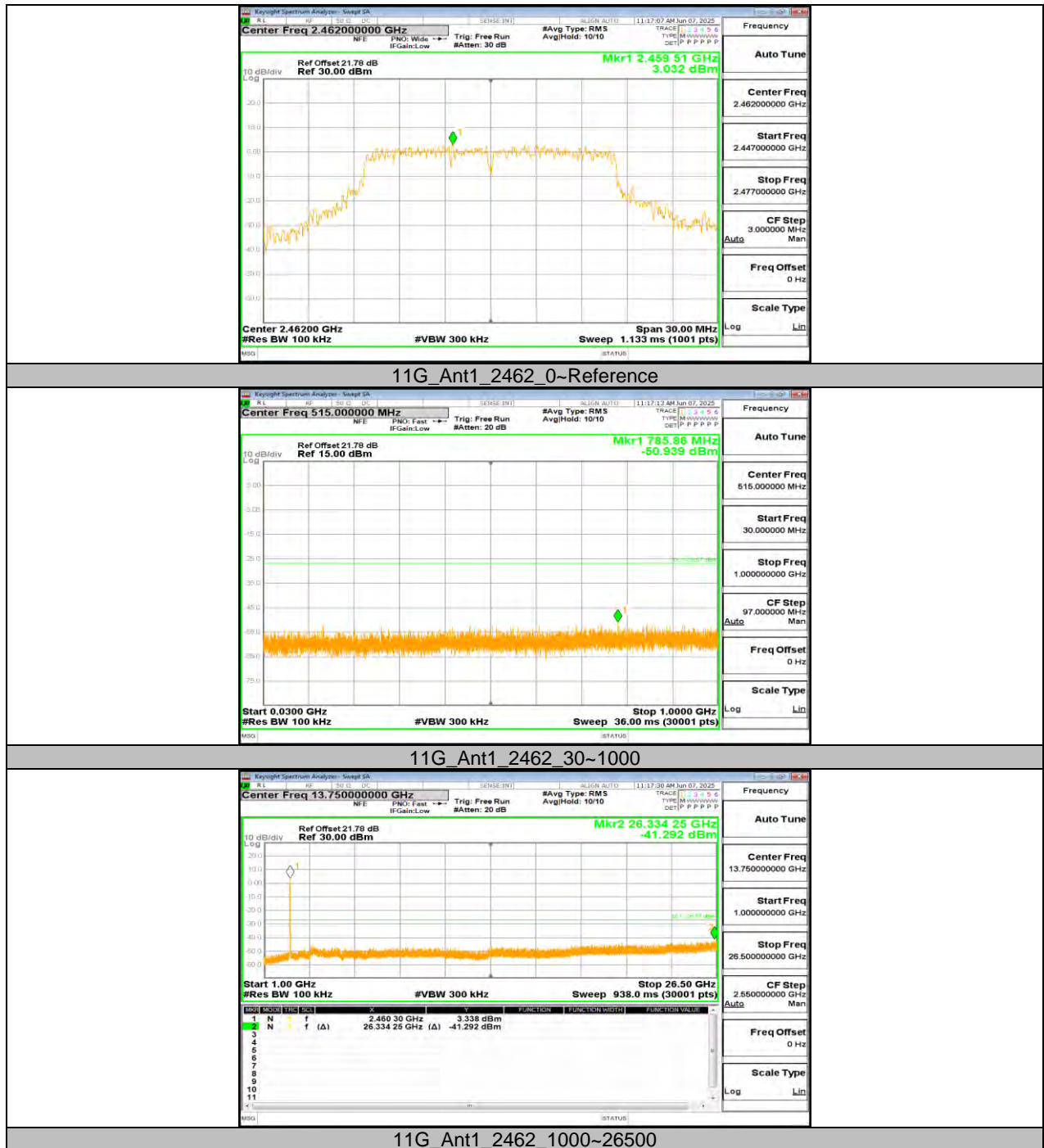




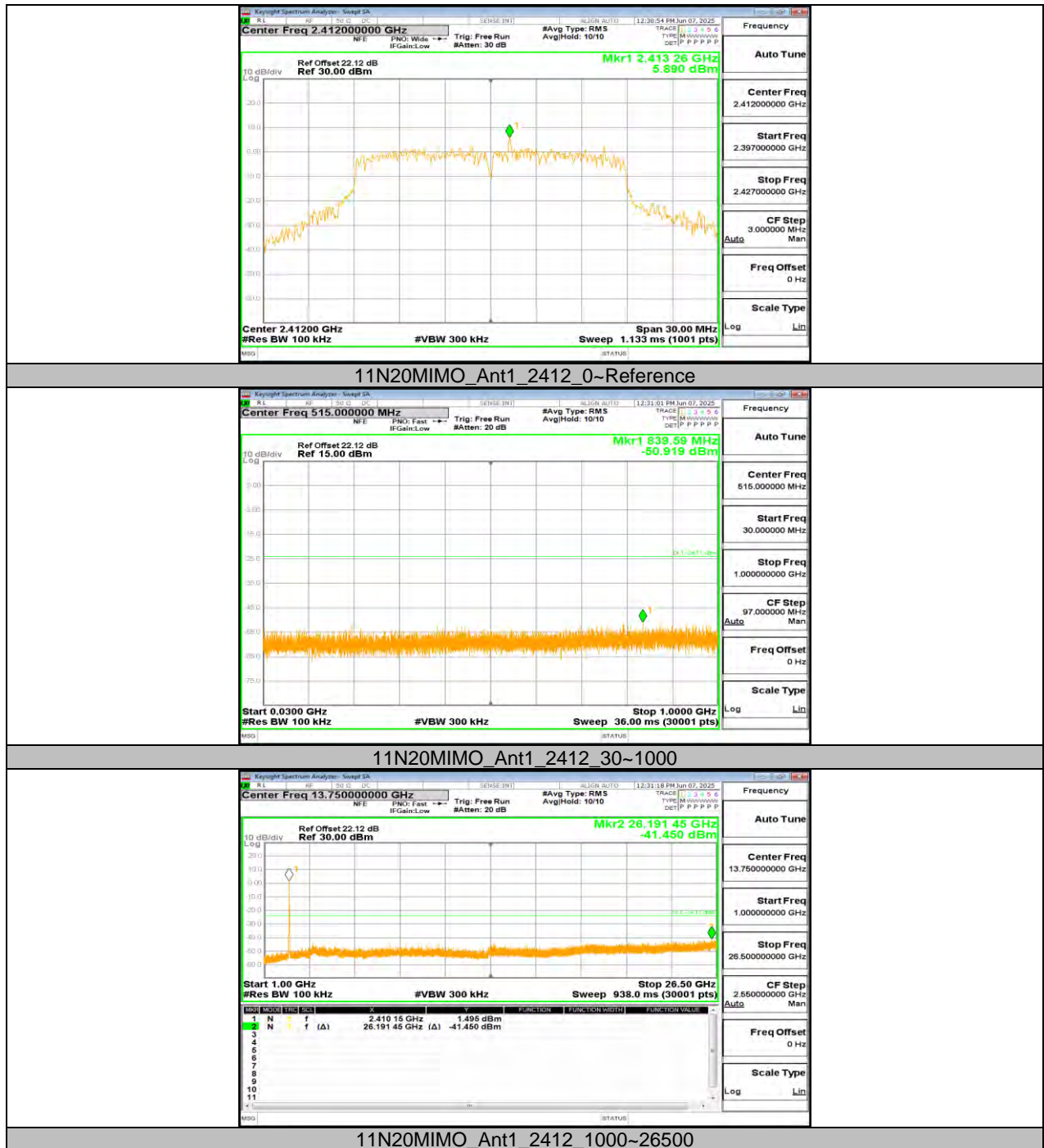




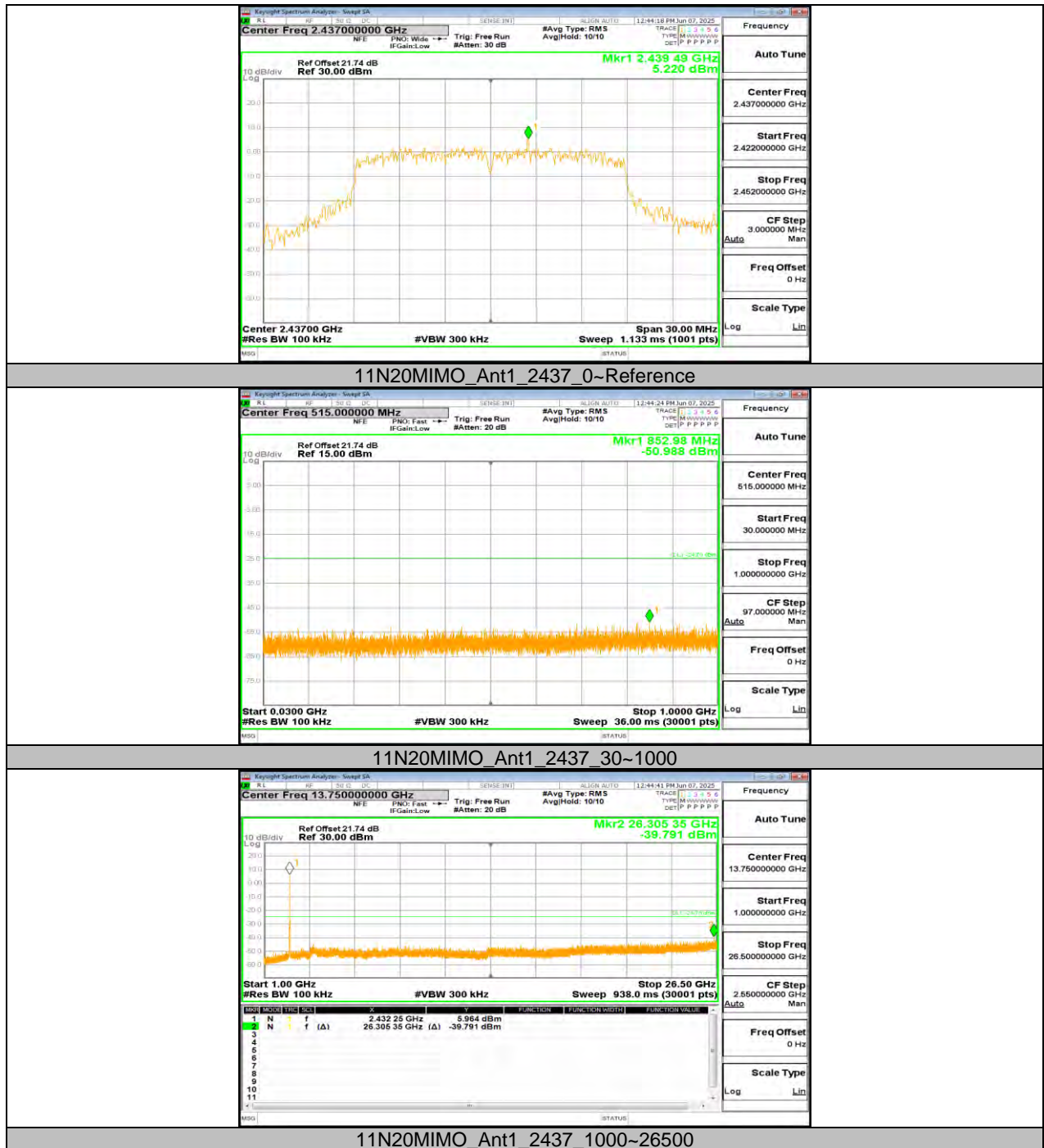


















11.7. APPENDIX G: DUTY CYCLE

11.7.1. Test Result

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Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	12.43	12.91	0.9628	96.28	0.16	0.08	1
11G	2.06	2.30	0.8957	89.57	0.48	0.49	1
11N20SISO	1.92	2.15	0.8930	89.30	0.49	0.52	1

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Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	100.00	100.00	1.0000	100.00	0.00	0.01	0.01
11G	100.00	100.00	1.0000	100.00	0.00	0.01	0.01
11N20MIMO	100.00	100.00	1.0000	100.00	0.00	0.01	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

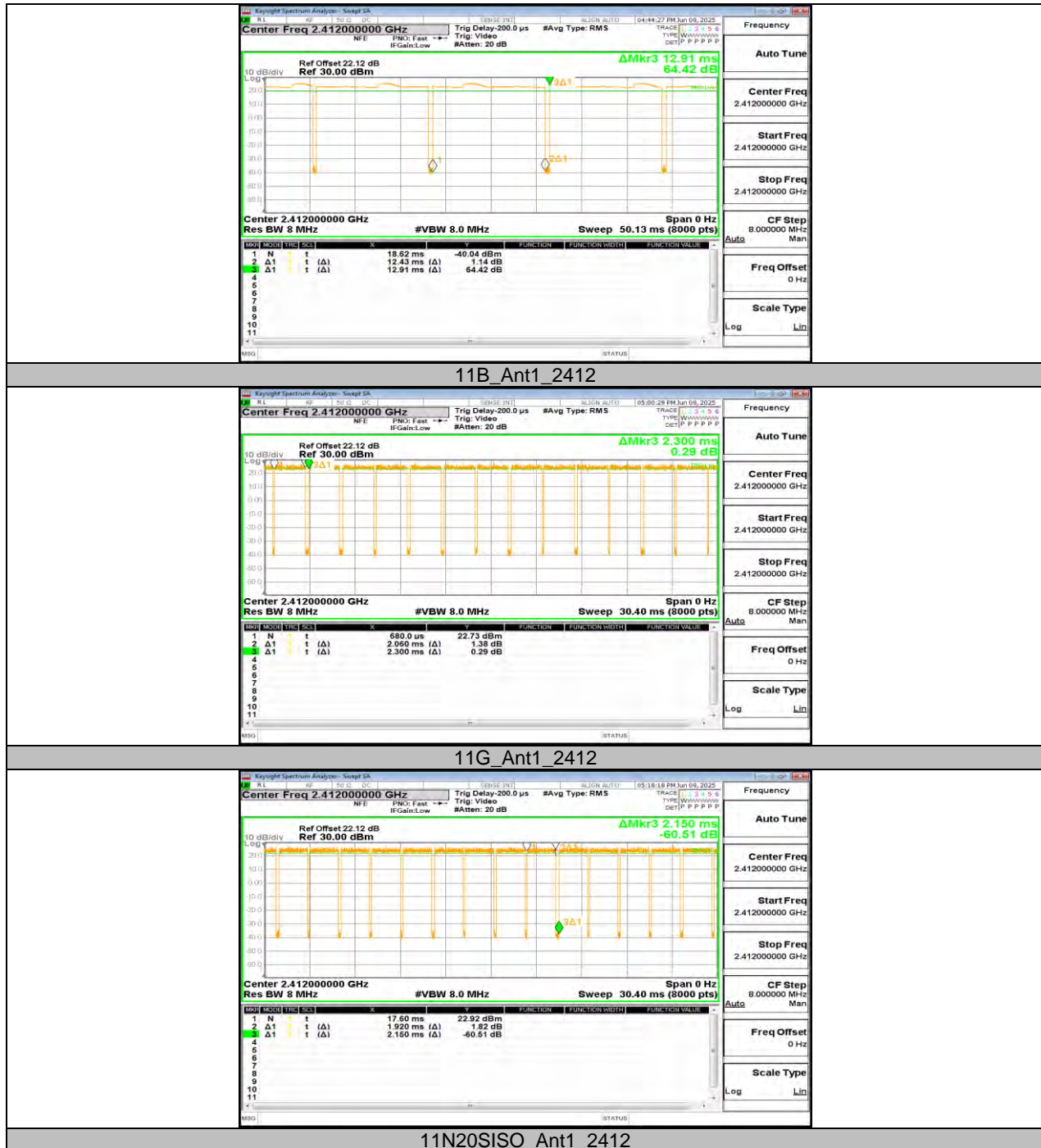
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs

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END OF REPORT