



Appendix A: DTS Bandwidth

Ant 1

Test Result

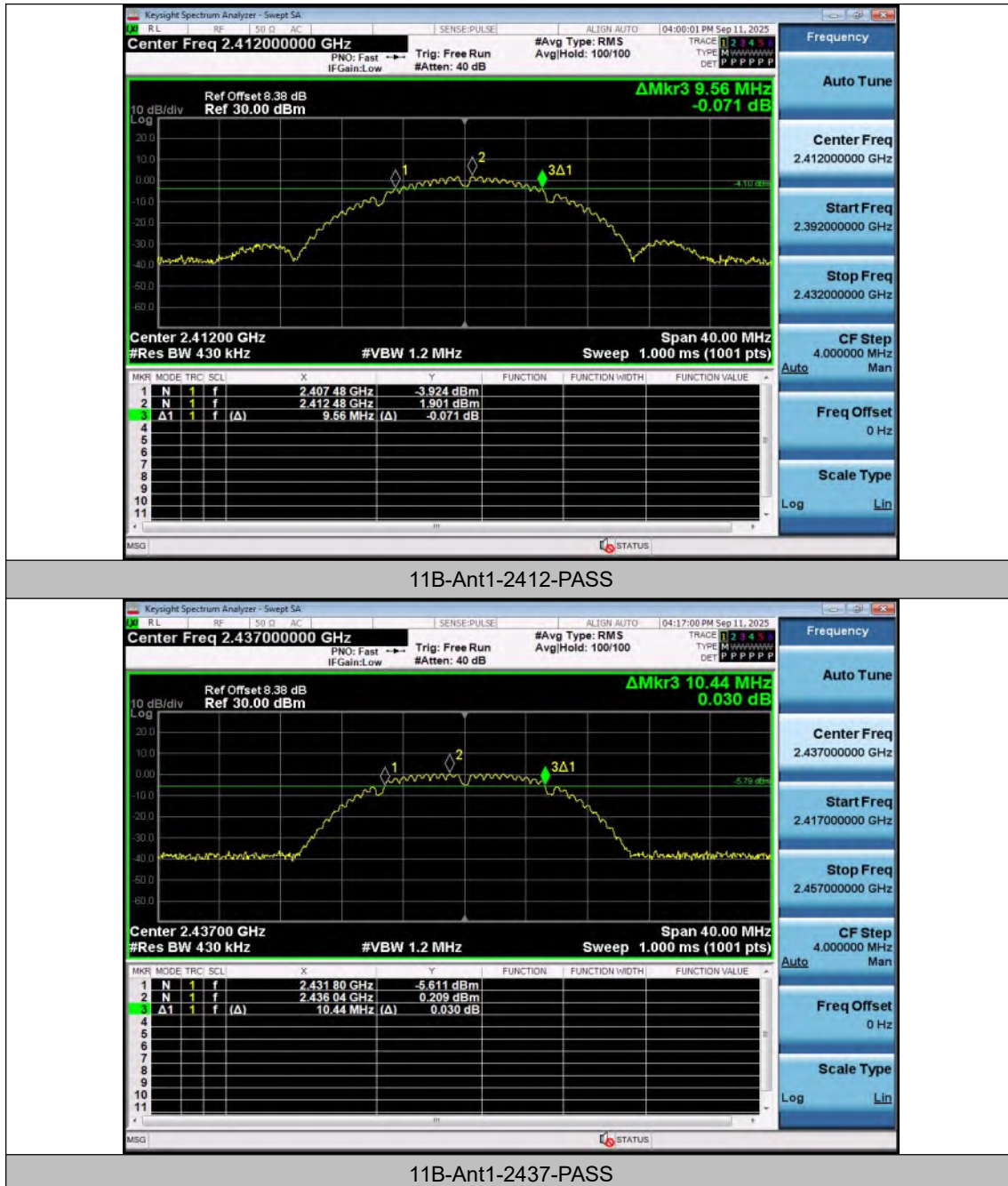
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.480	2417.040	0.5	PASS
11B	Ant1	2437	10.440	2431.800	2442.240	0.5	PASS
11B	Ant1	2462	12.080	2456.000	2468.080	0.5	PASS
11G	Ant1	2412	16.160	2403.920	2420.080	0.5	PASS
11G	Ant1	2437	16.240	2428.920	2445.160	0.5	PASS
11G	Ant1	2462	16.160	2453.960	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.480	2403.320	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.440	2428.280	2445.720	0.5	PASS
11N20SISO	Ant1	2462	17.200	2453.320	2470.520	0.5	PASS
11N40SISO	Ant1	2422	33.600	2405.920	2439.520	0.5	PASS
11N40SISO	Ant1	2437	36.080	2419.080	2455.160	0.5	PASS
11N40SISO	Ant1	2452	35.920	2434.080	2470.000	0.5	PASS
11AX20SISO	Ant1	2412	18.040	2403.000	2421.040	0.5	PASS
11AX20SISO	Ant1	2437	18.960	2427.560	2446.520	0.5	PASS
11AX20SISO	Ant1	2462	18.760	2452.640	2471.400	0.5	PASS
11AX40SISO	Ant1	2422	35.840	2404.560	2440.400	0.5	PASS
11AX40SISO	Ant1	2437	37.360	2418.280	2455.640	0.5	PASS
11AX40SISO	Ant1	2452	37.760	2433.200	2470.960	0.5	PASS



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Test Graphs

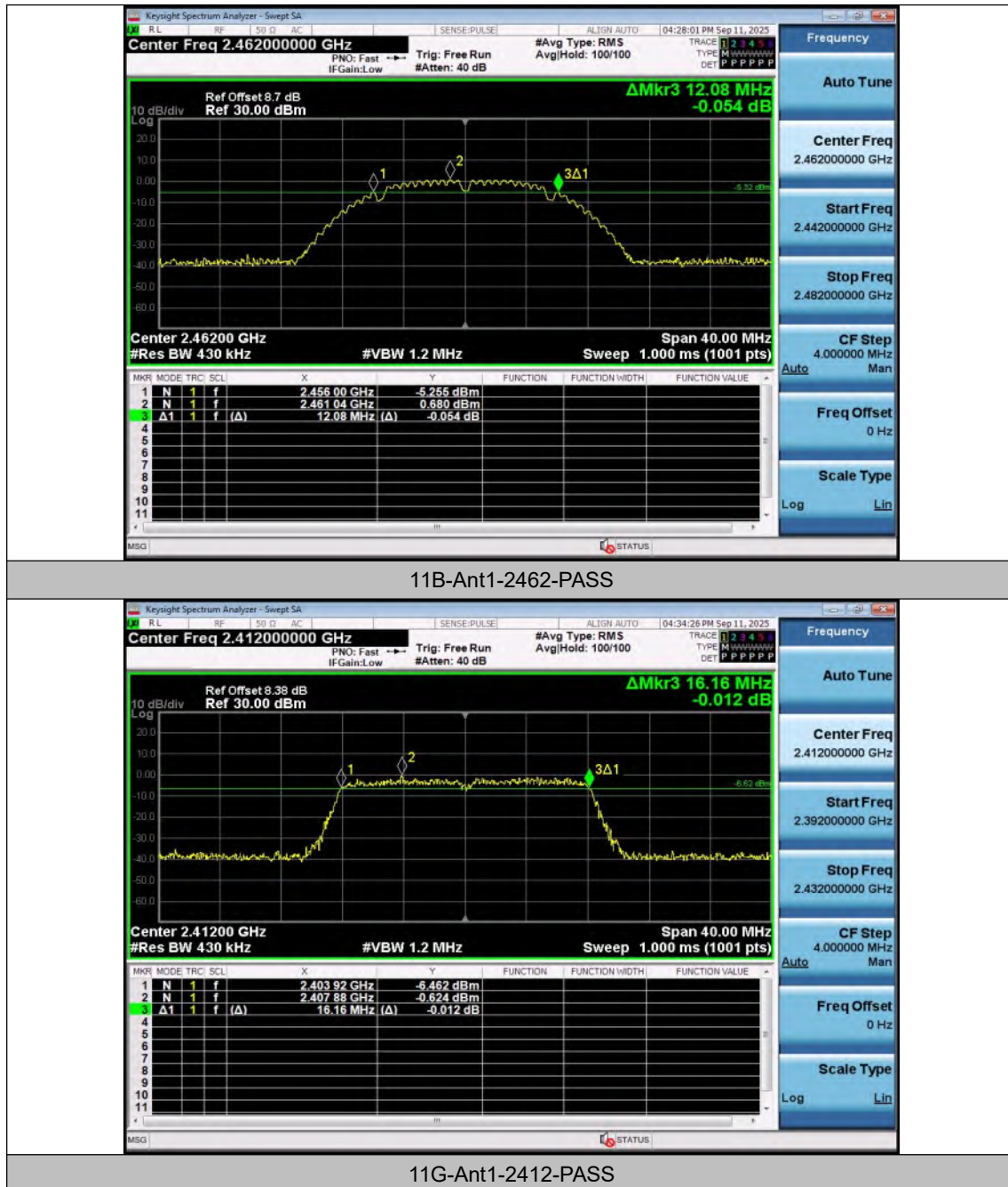




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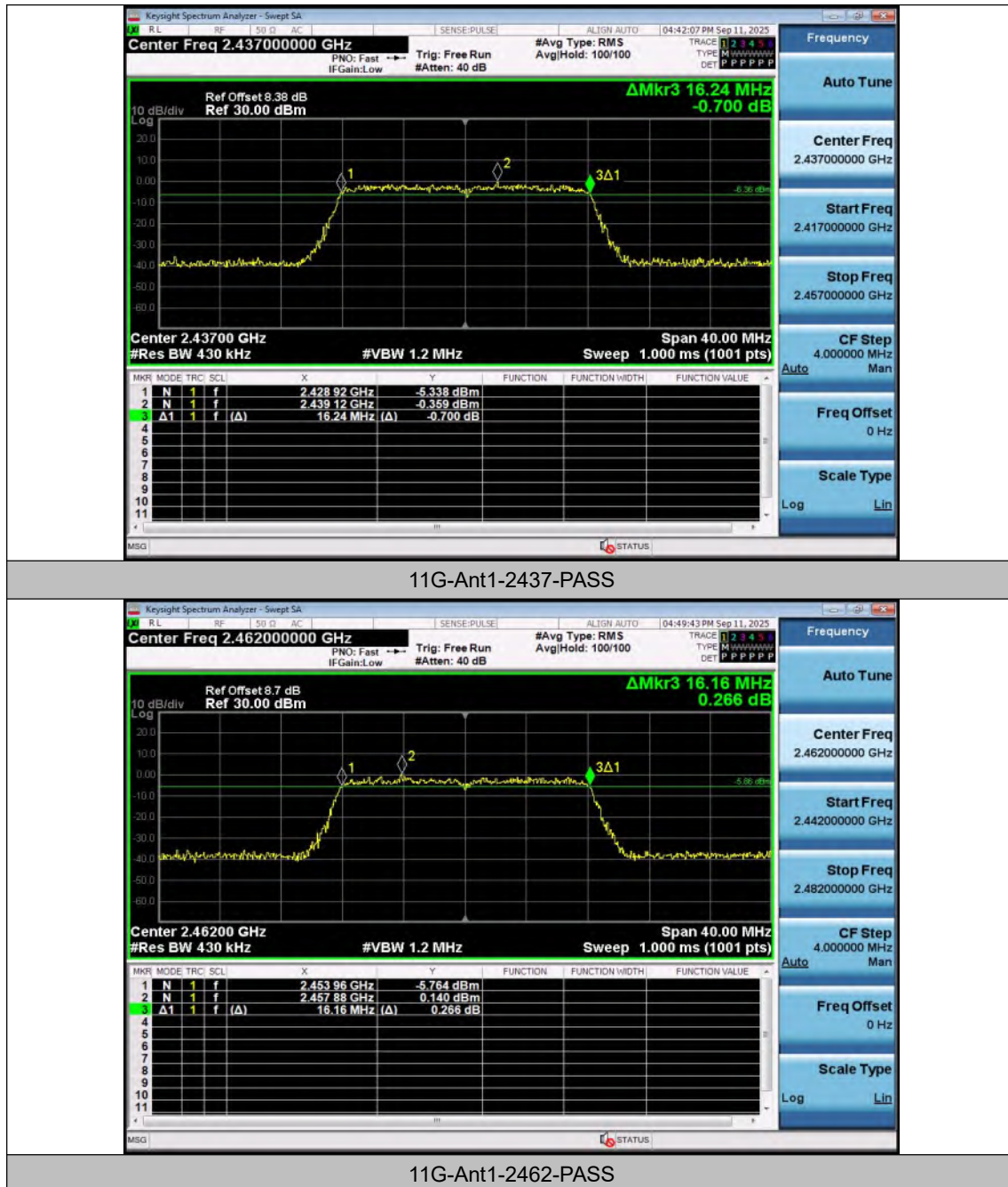




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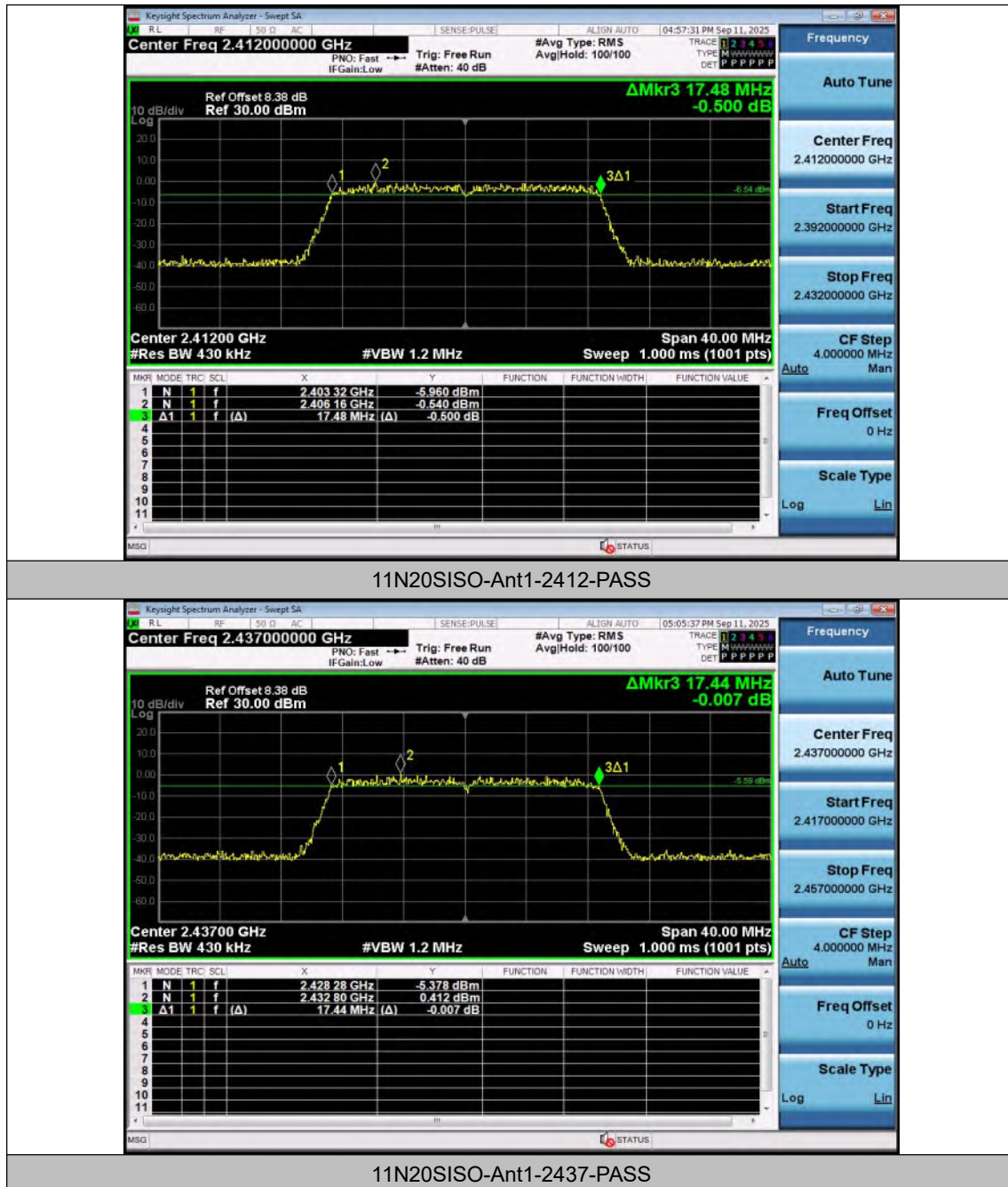




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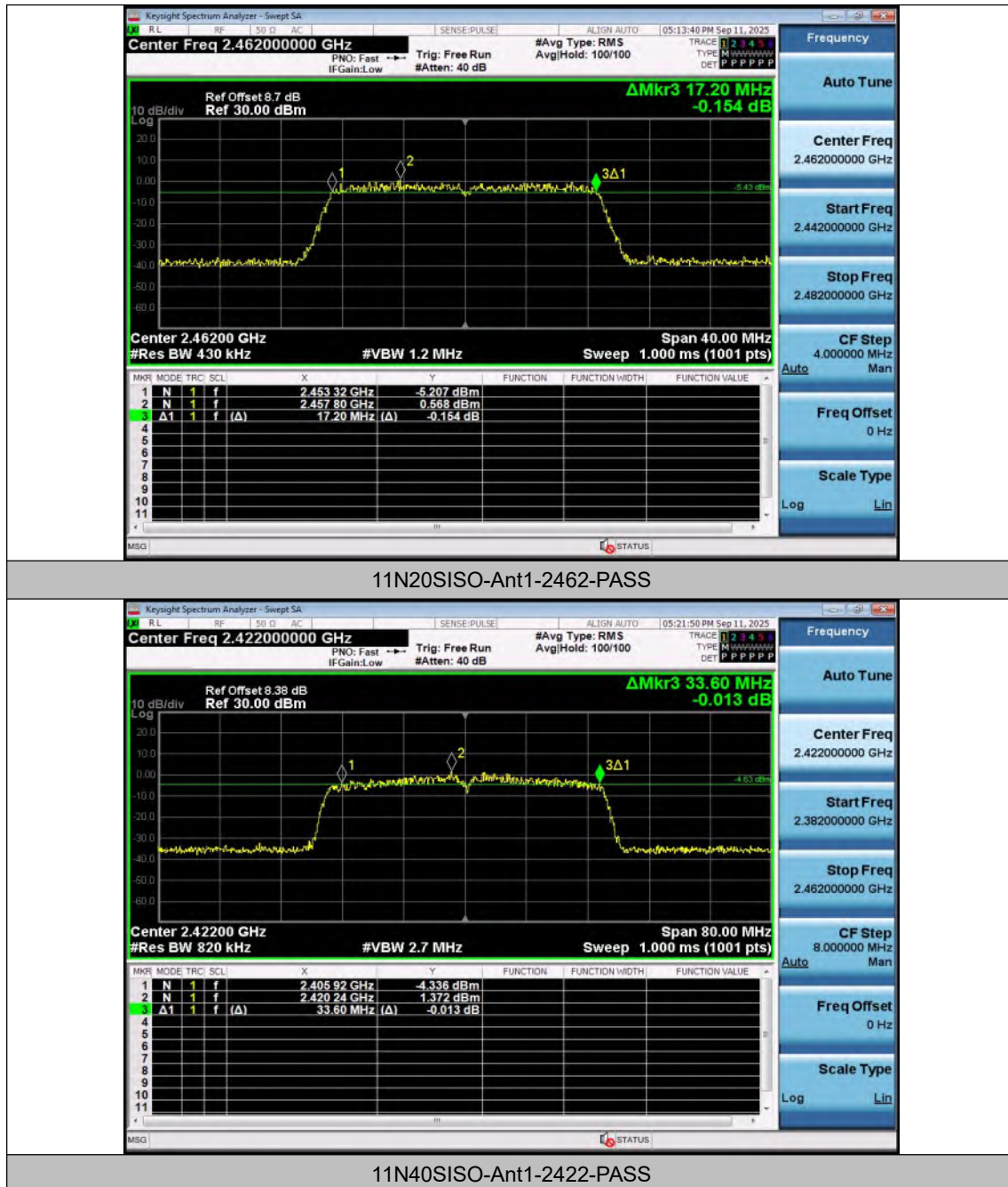




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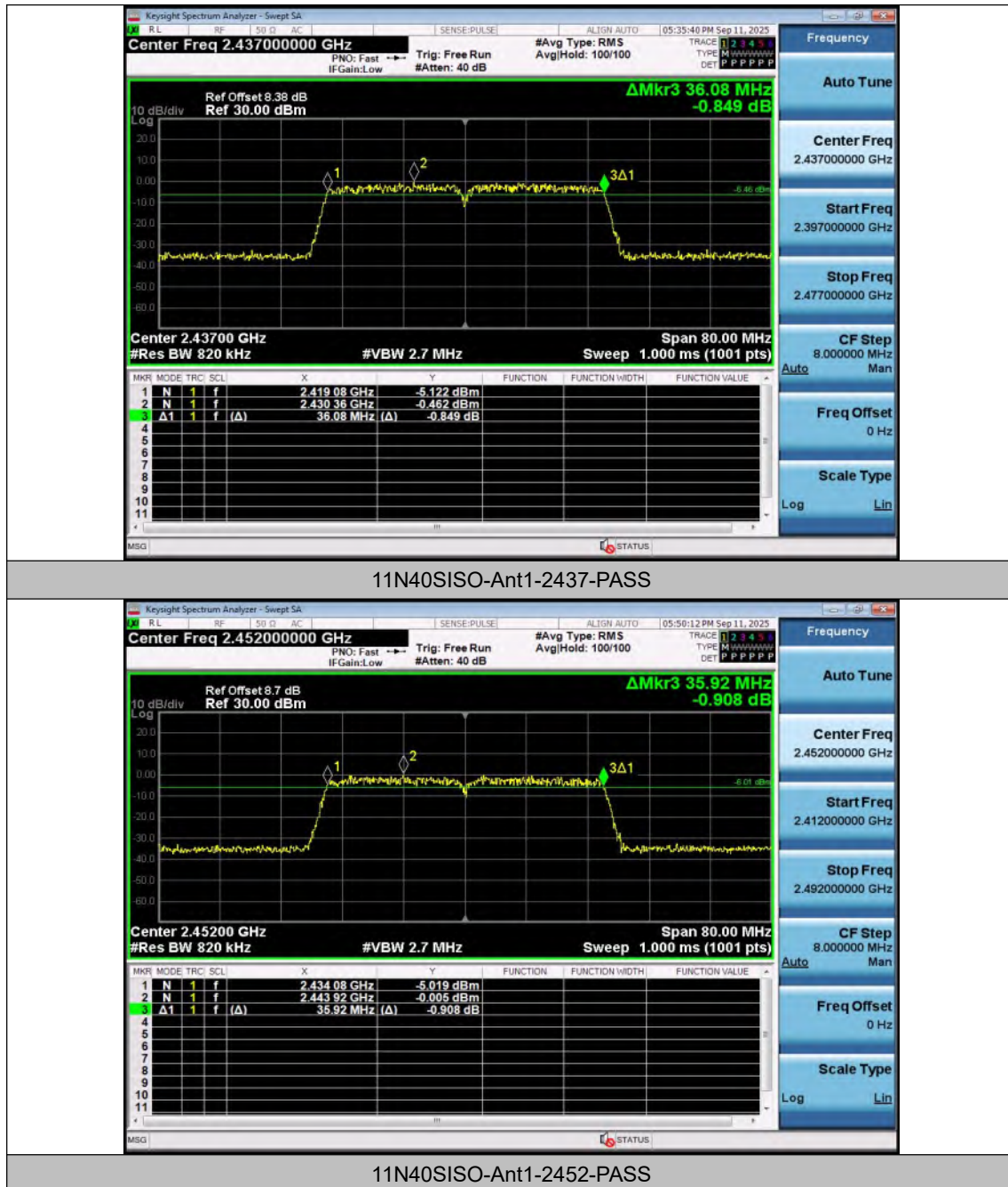




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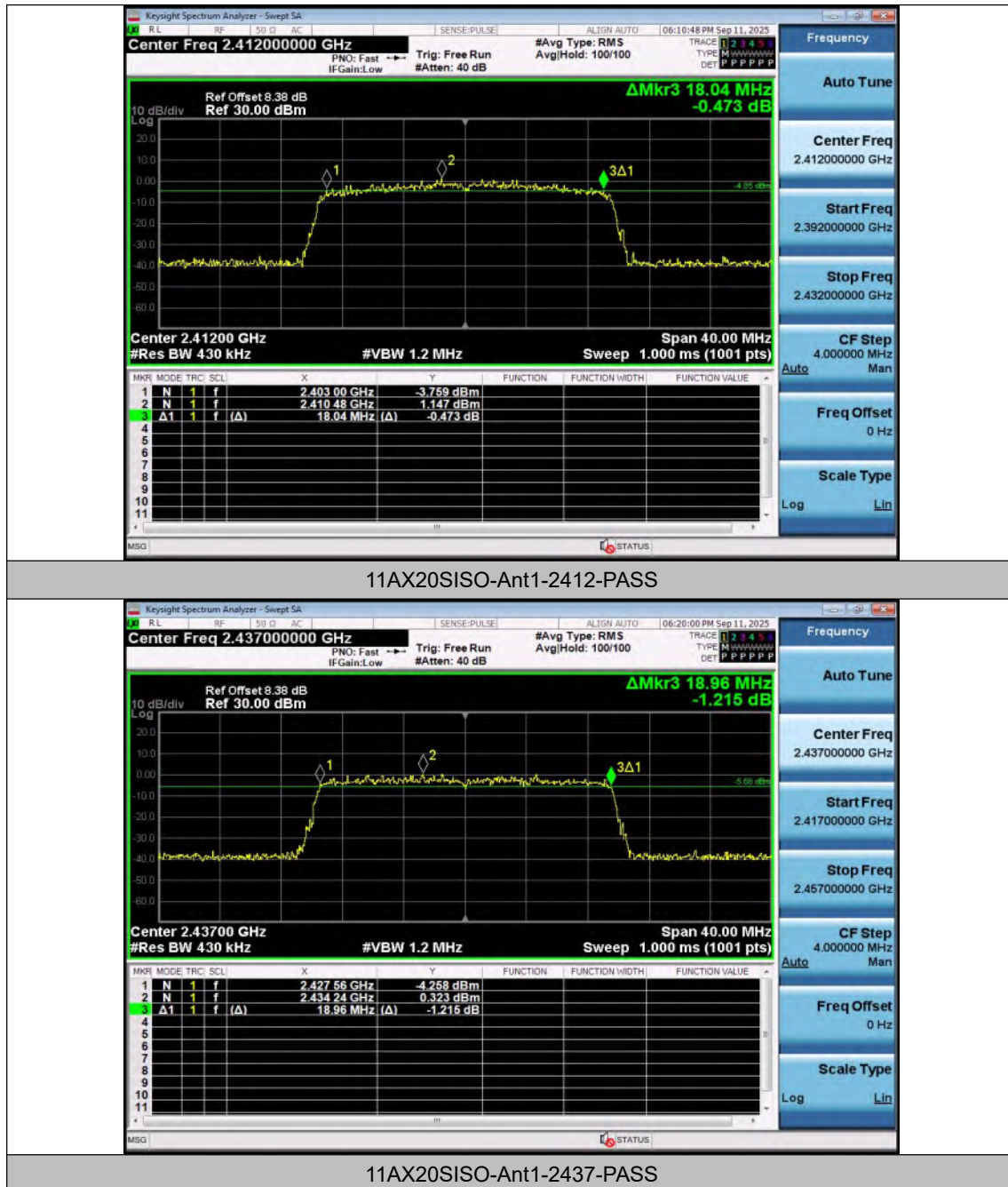




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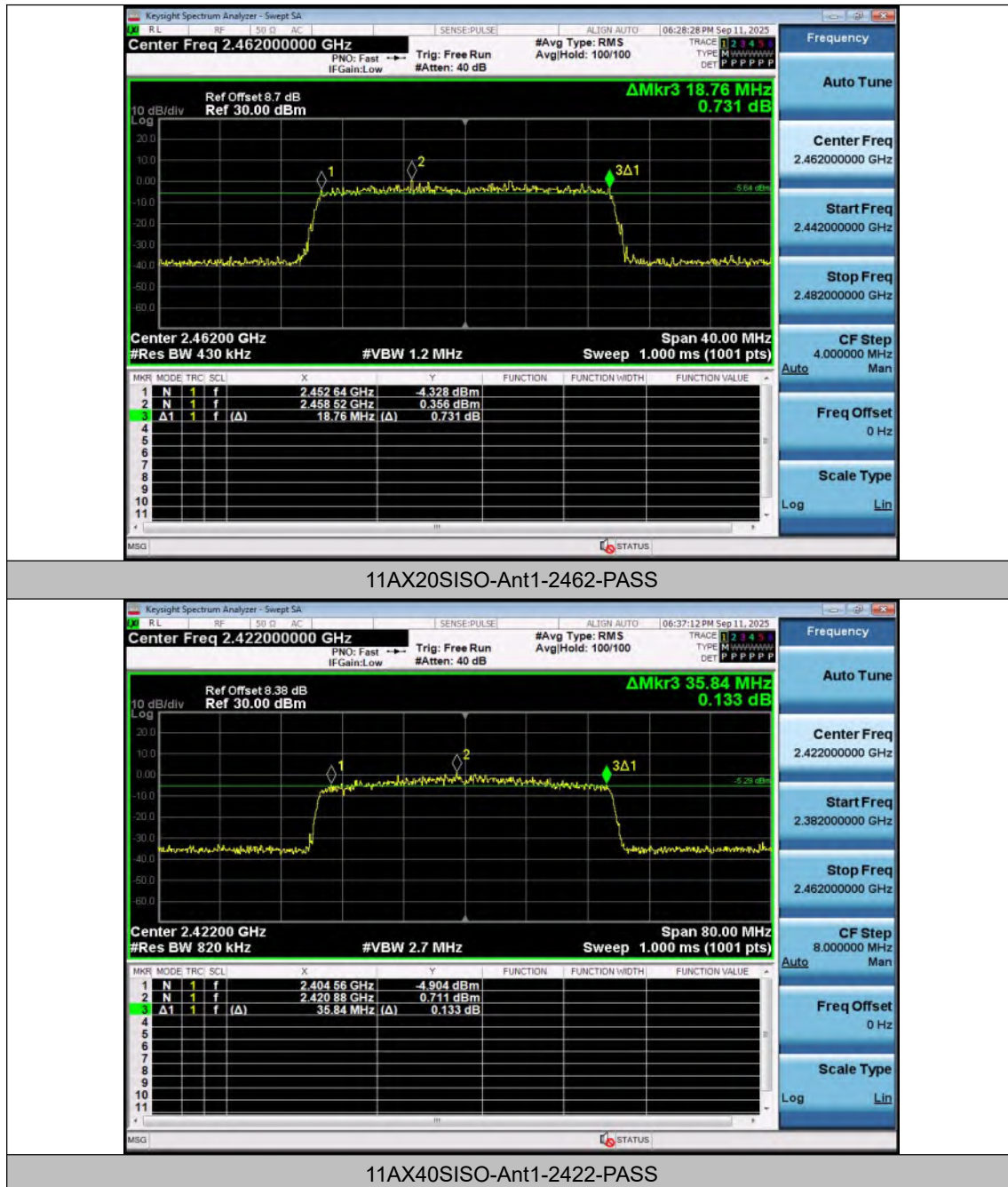




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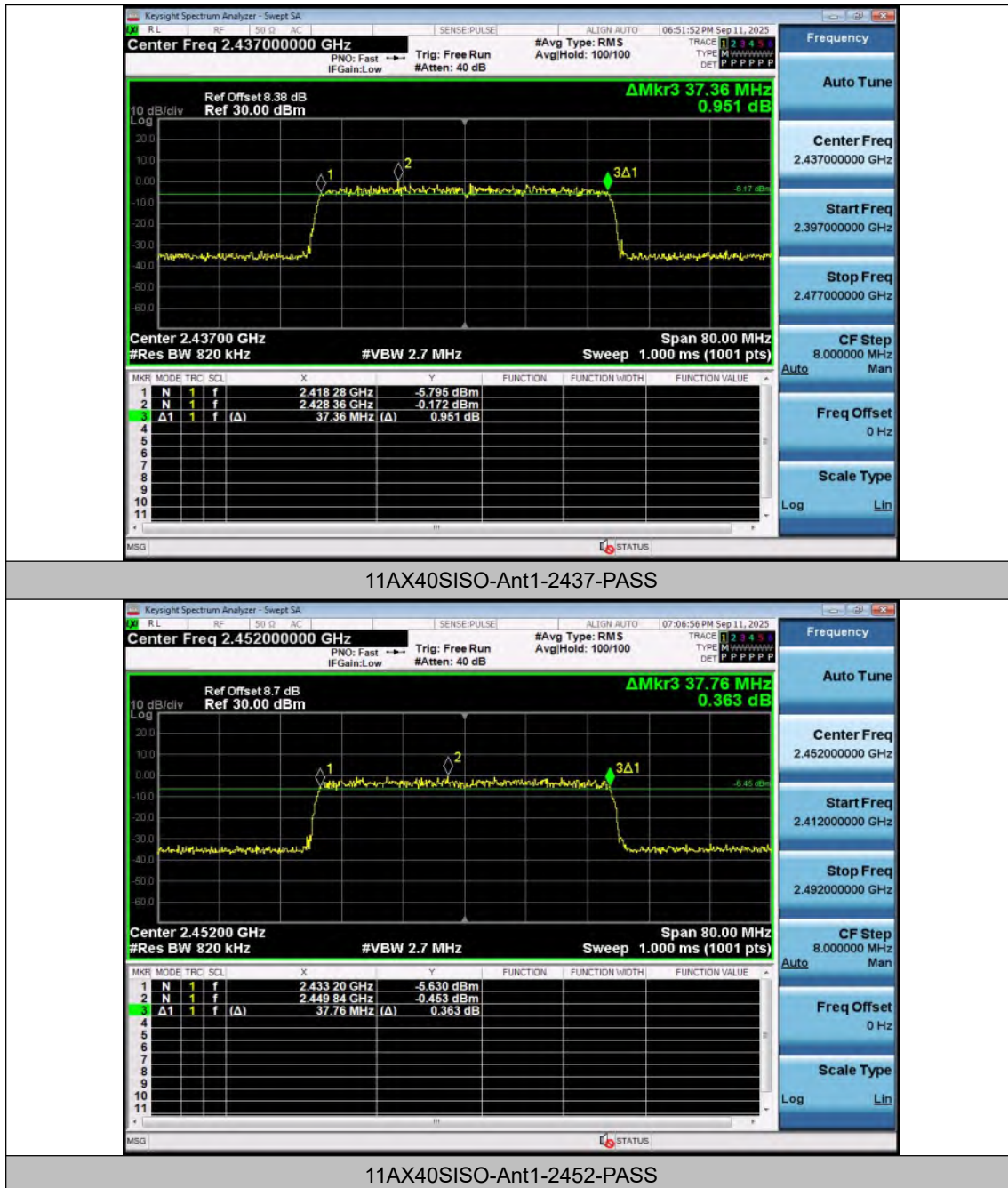




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Ant 2

Test Result

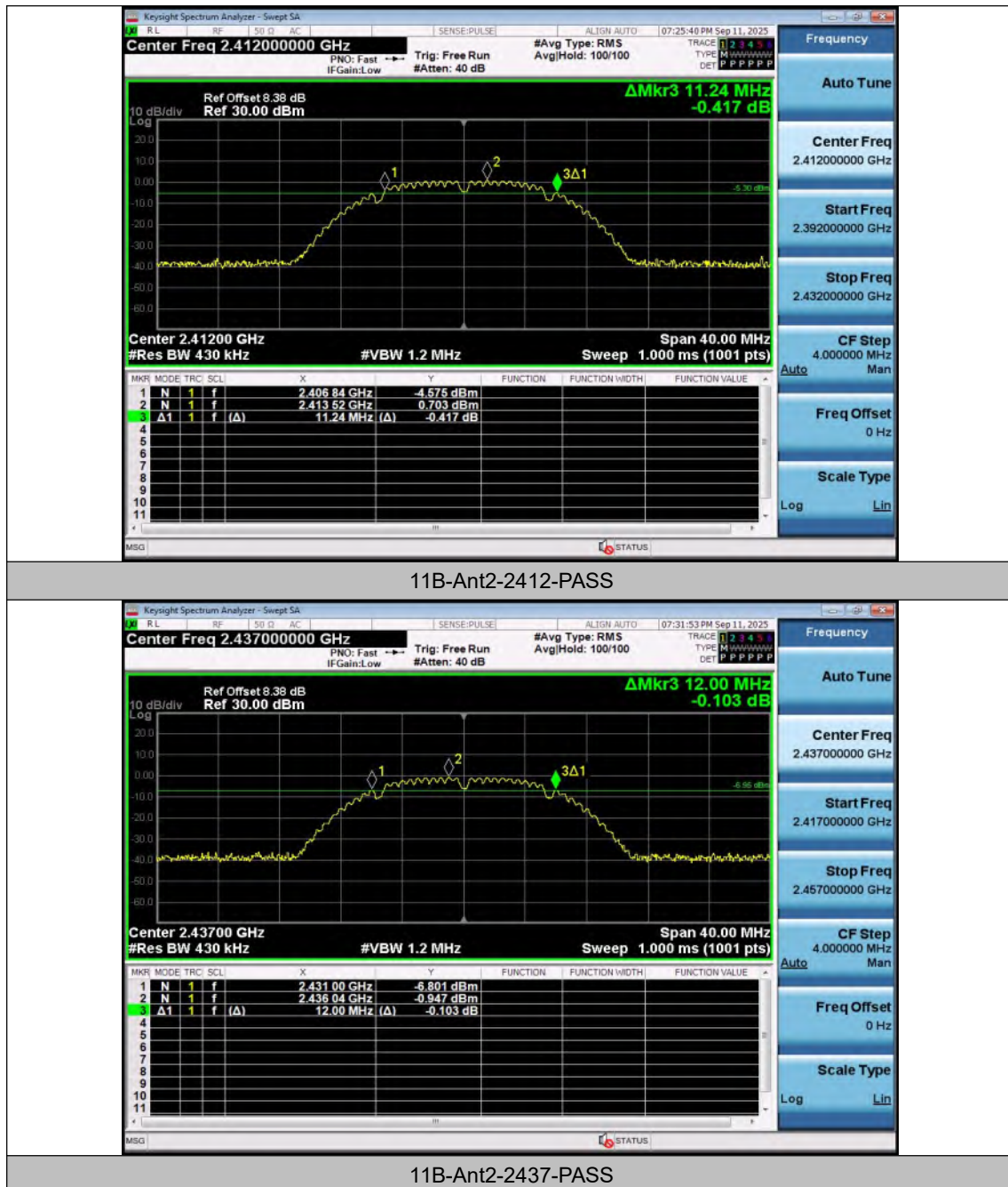
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	11.240	2406.840	2418.080	0.5	PASS
11B	Ant2	2437	12.000	2431.000	2443.000	0.5	PASS
11B	Ant2	2462	12.120	2455.960	2468.080	0.5	PASS
11G	Ant2	2412	16.400	2403.840	2420.240	0.5	PASS
11G	Ant2	2437	16.320	2428.800	2445.120	0.5	PASS
11G	Ant2	2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant2	2412	17.360	2403.360	2420.720	0.5	PASS
11N20SISO	Ant2	2437	17.520	2428.240	2445.760	0.5	PASS
11N20SISO	Ant2	2462	17.360	2453.360	2470.720	0.5	PASS
11N40SISO	Ant2	2422	34.480	2404.960	2439.440	0.5	PASS
11N40SISO	Ant2	2437	36.240	2418.920	2455.160	0.5	PASS
11N40SISO	Ant2	2452	36.240	2434.000	2470.240	0.5	PASS
11AX20SISO	Ant2	2412	18.520	2402.880	2421.400	0.5	PASS
11AX20SISO	Ant2	2437	18.520	2427.640	2446.160	0.5	PASS
11AX20SISO	Ant2	2462	18.840	2452.680	2471.520	0.5	PASS
11AX40SISO	Ant2	2422	34.800	2405.280	2440.080	0.5	PASS
11AX40SISO	Ant2	2437	37.200	2418.600	2455.800	0.5	PASS
11AX40SISO	Ant2	2452	37.760	2433.120	2470.880	0.5	PASS



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Test Graphs

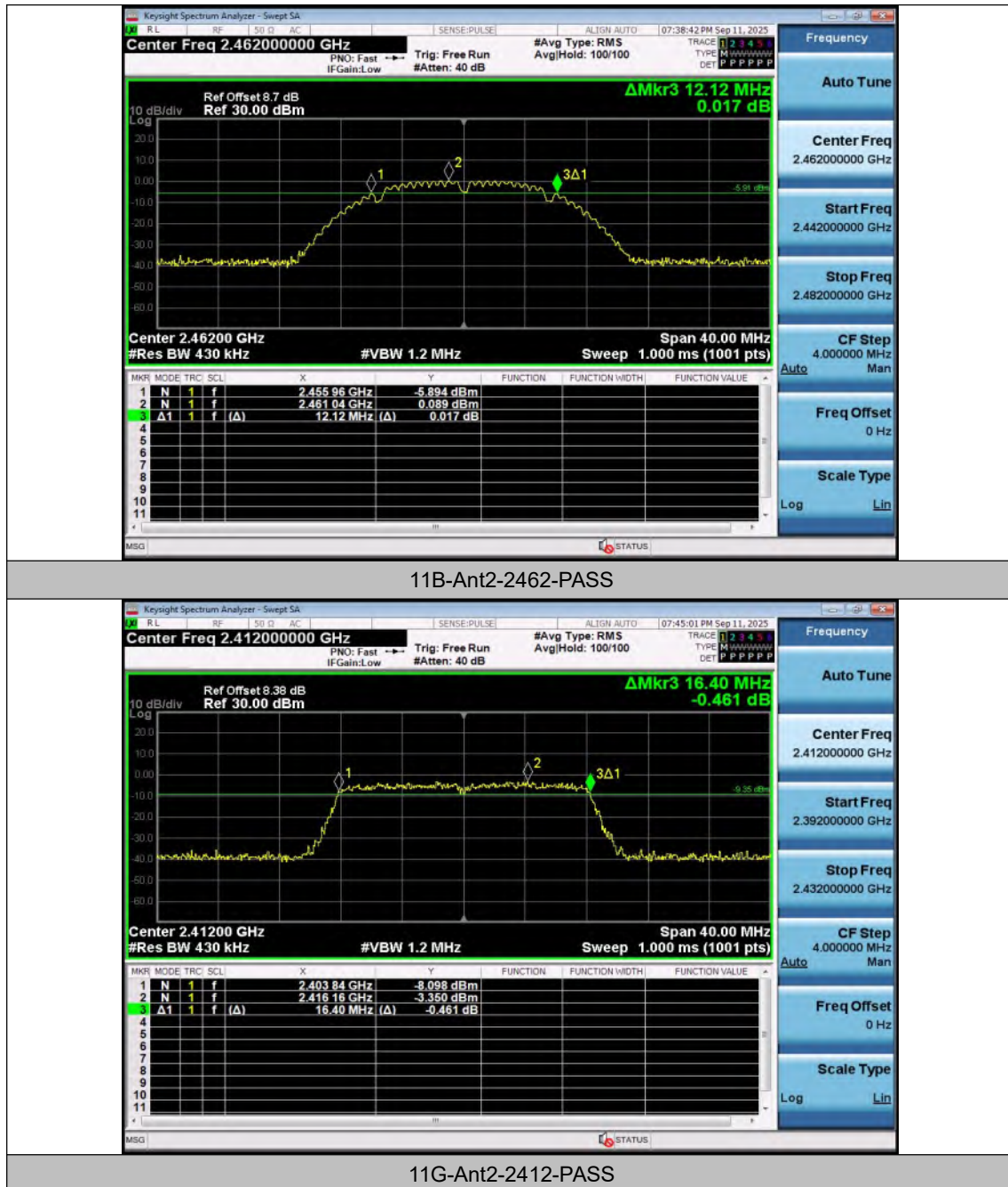




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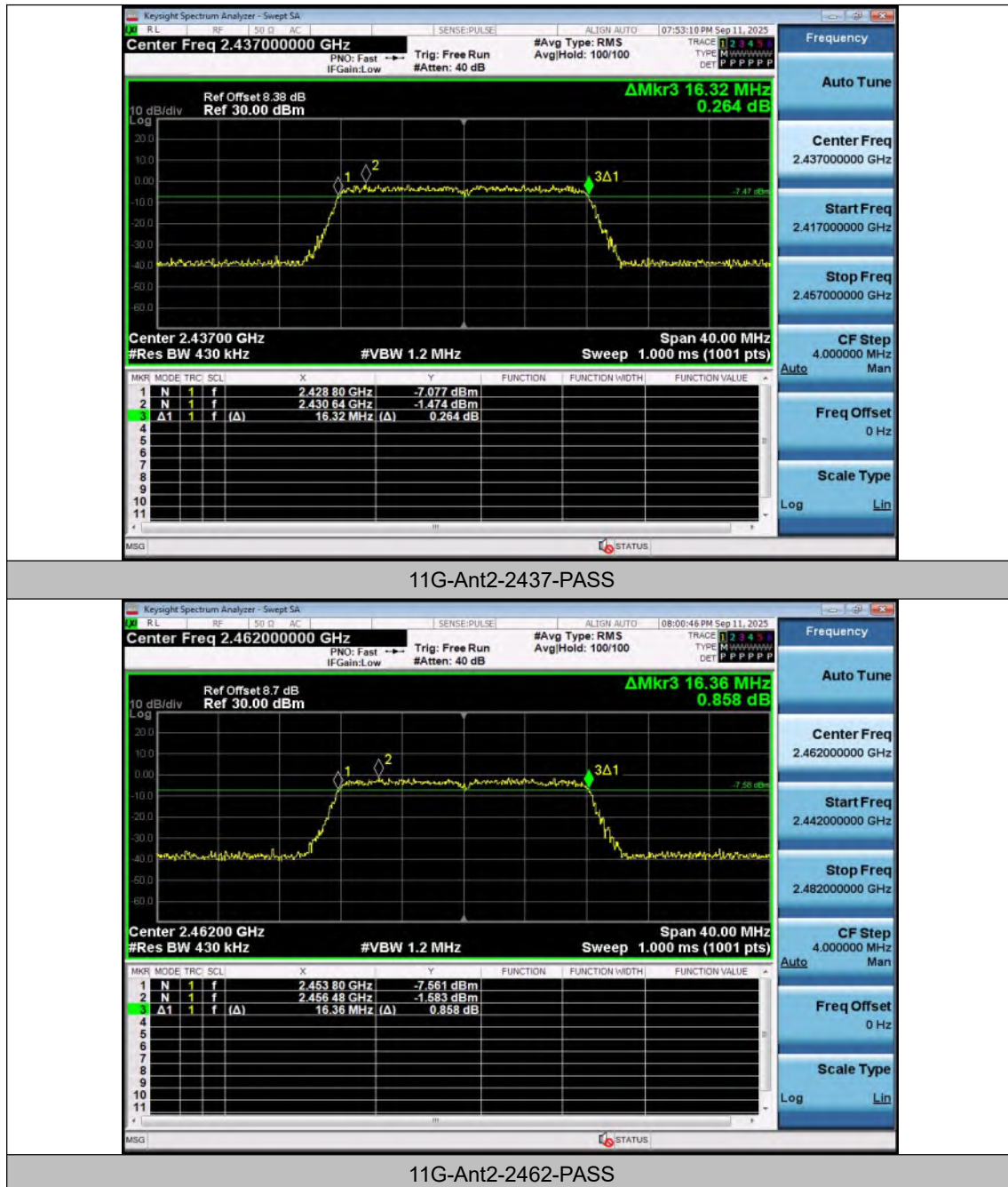




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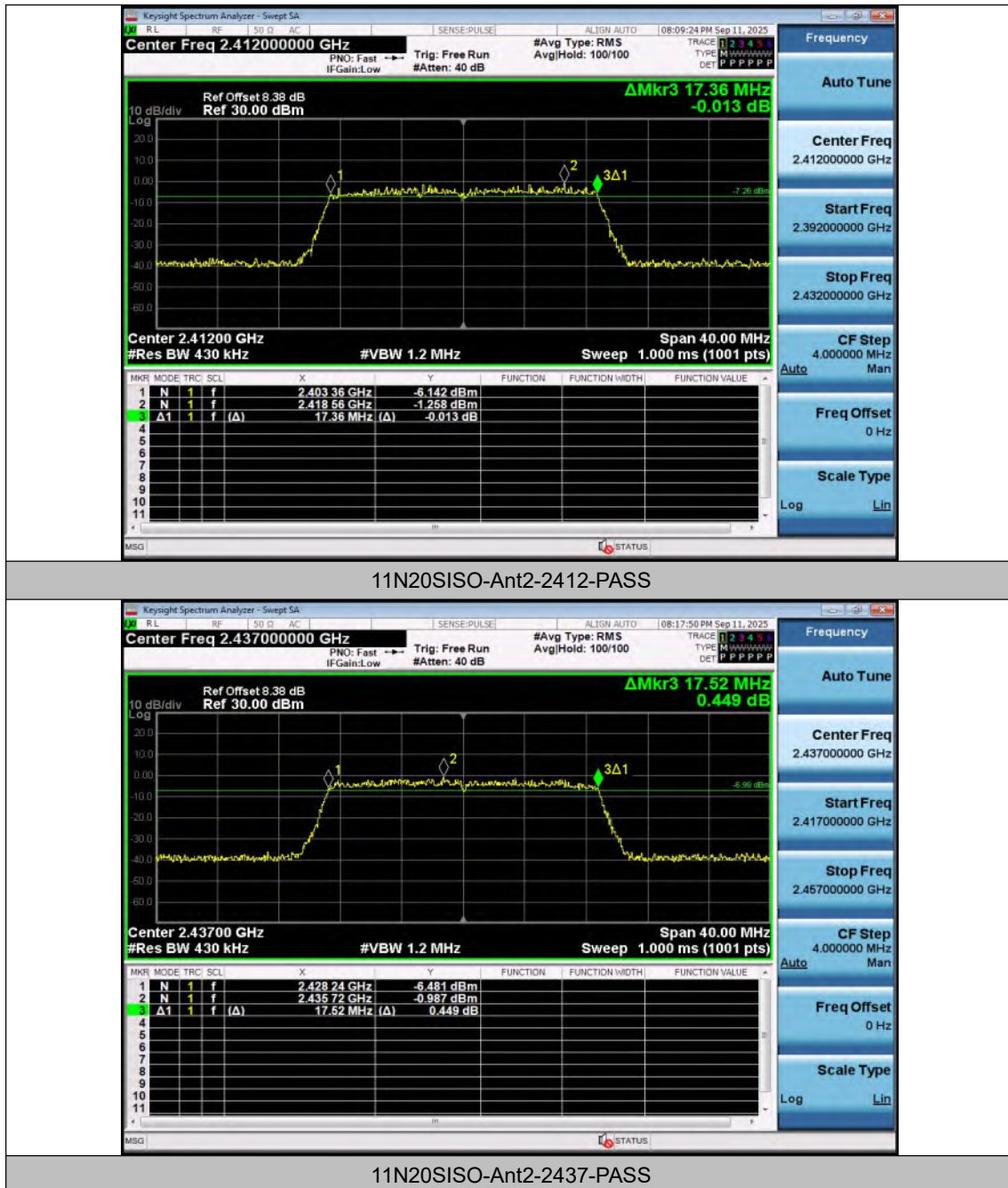




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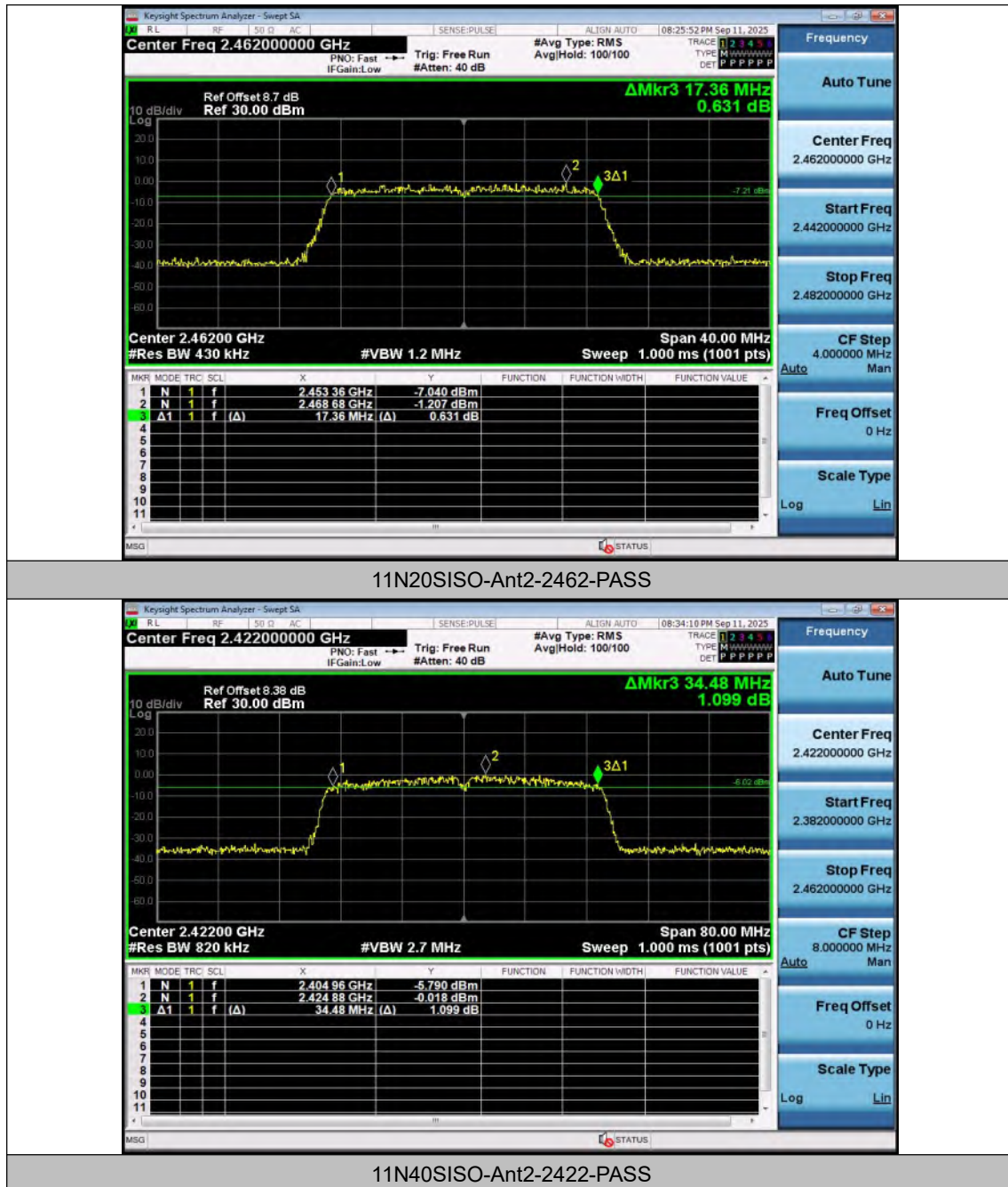




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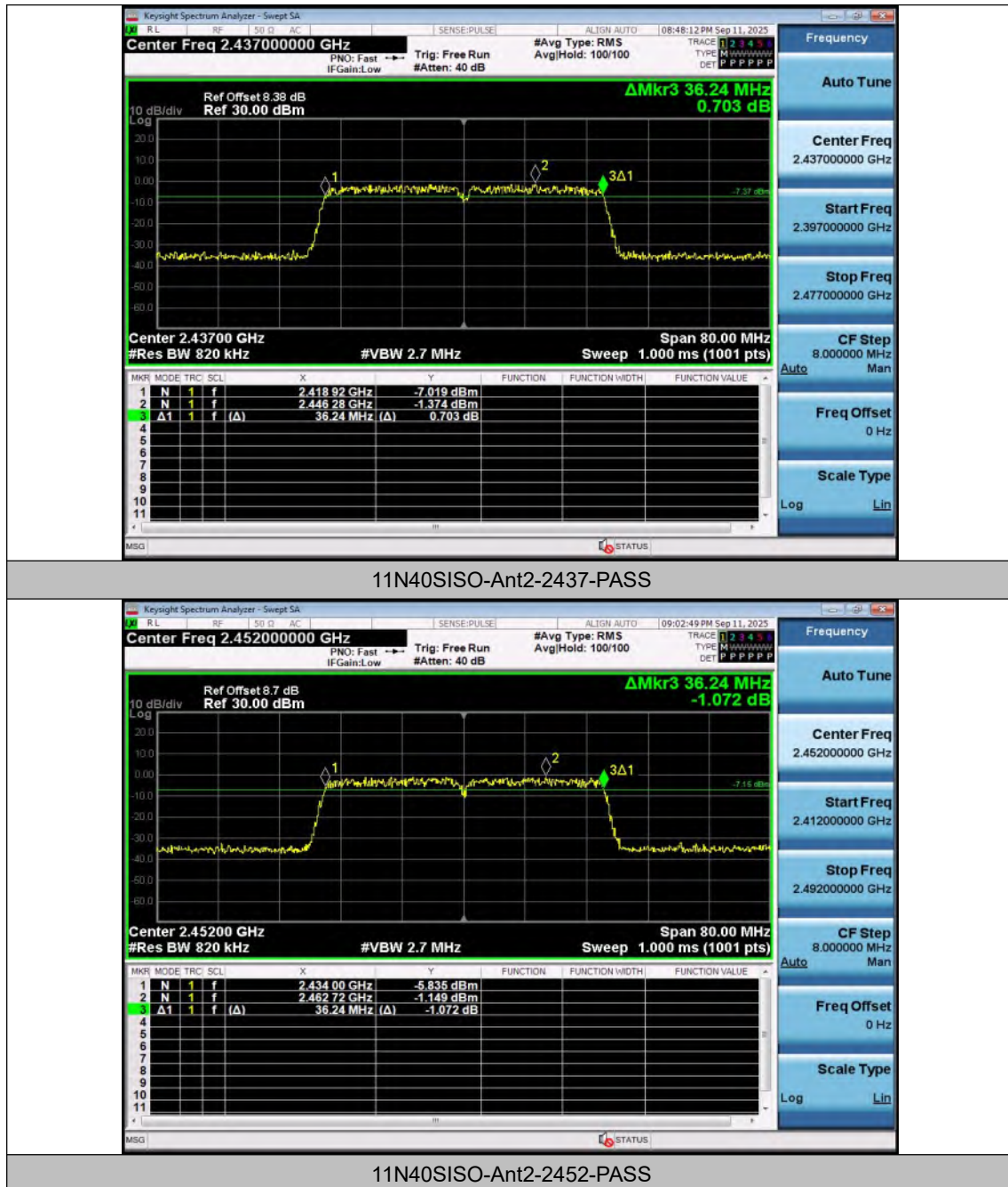




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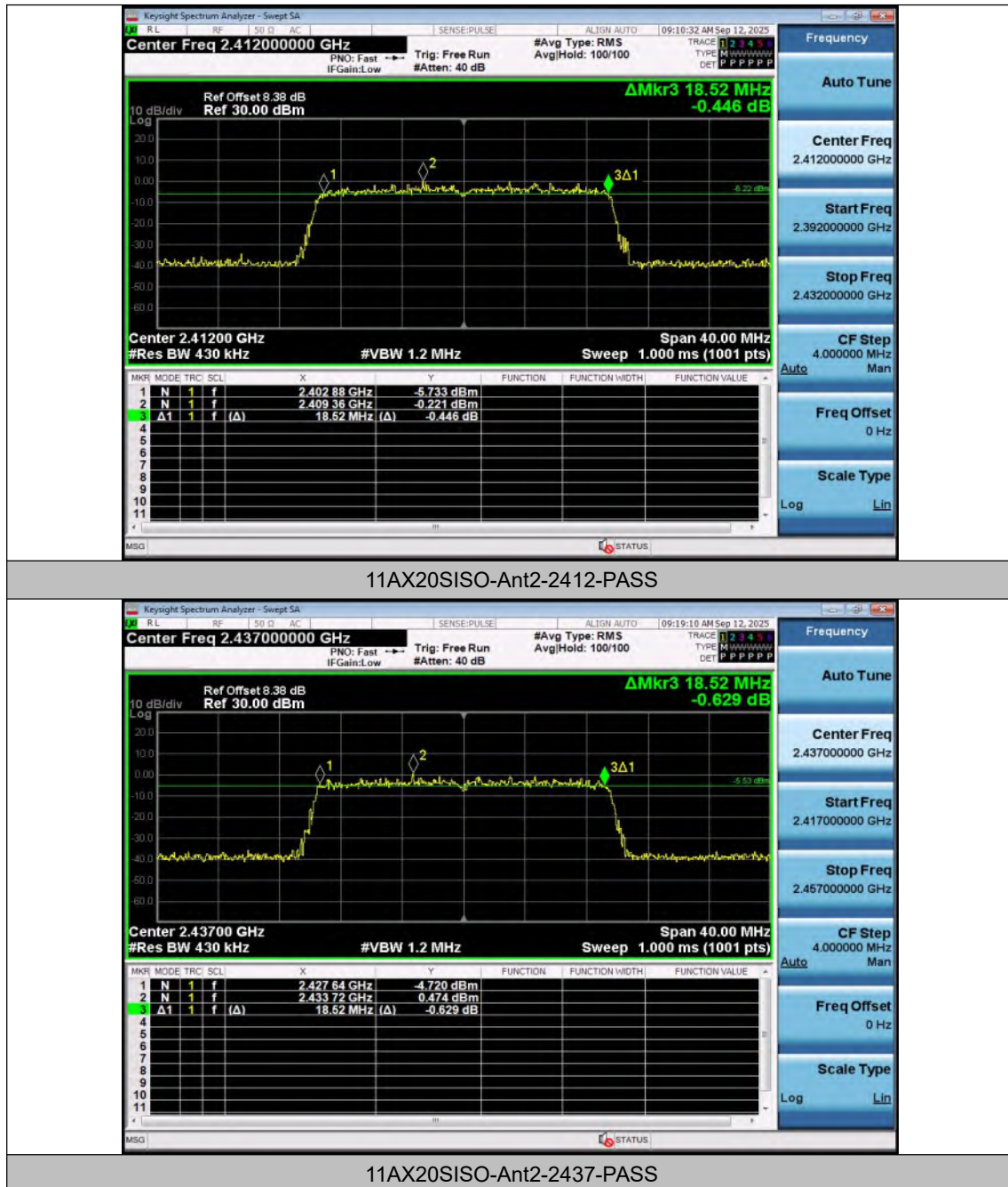




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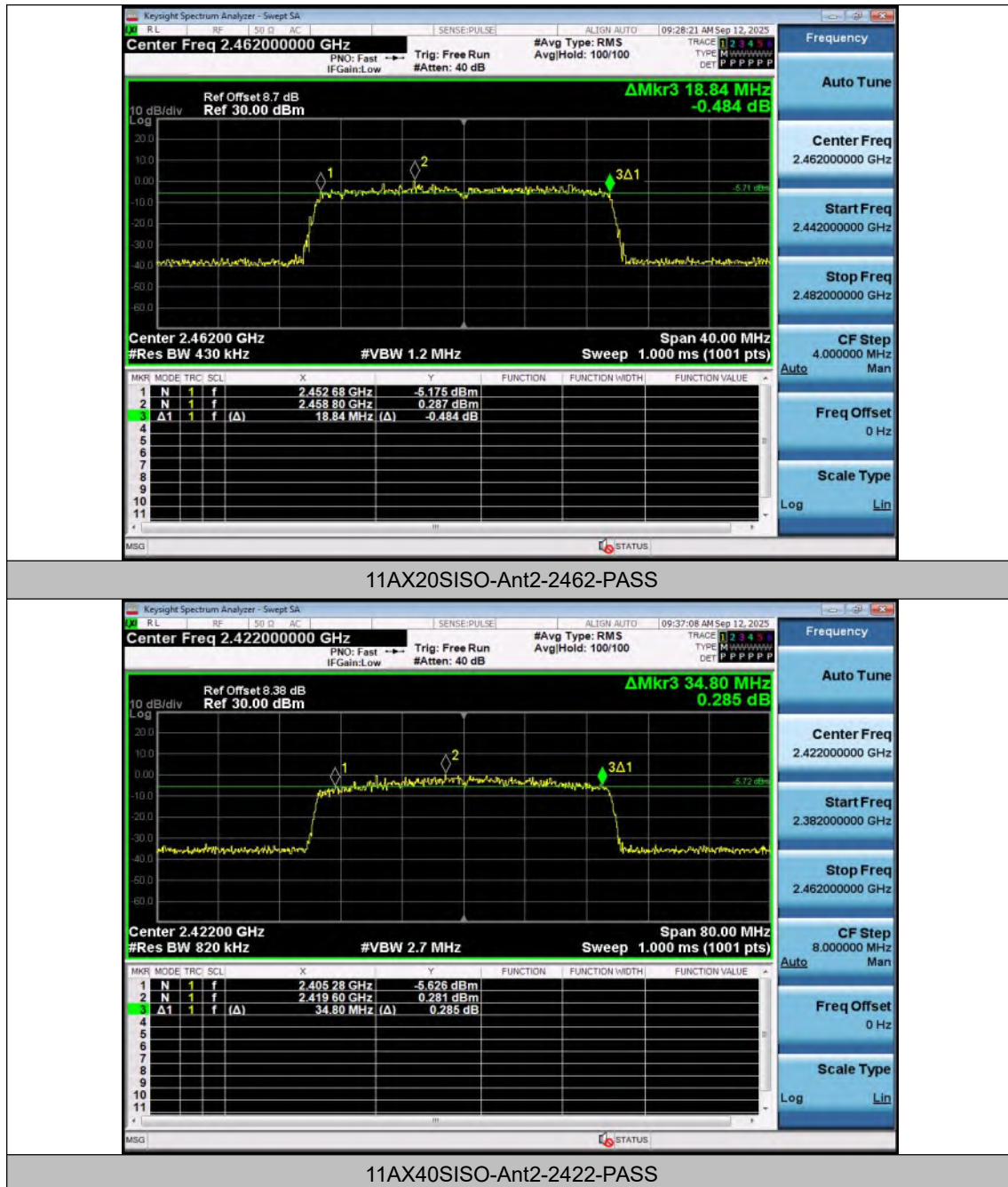




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FCCID:2A22E-R-W62508

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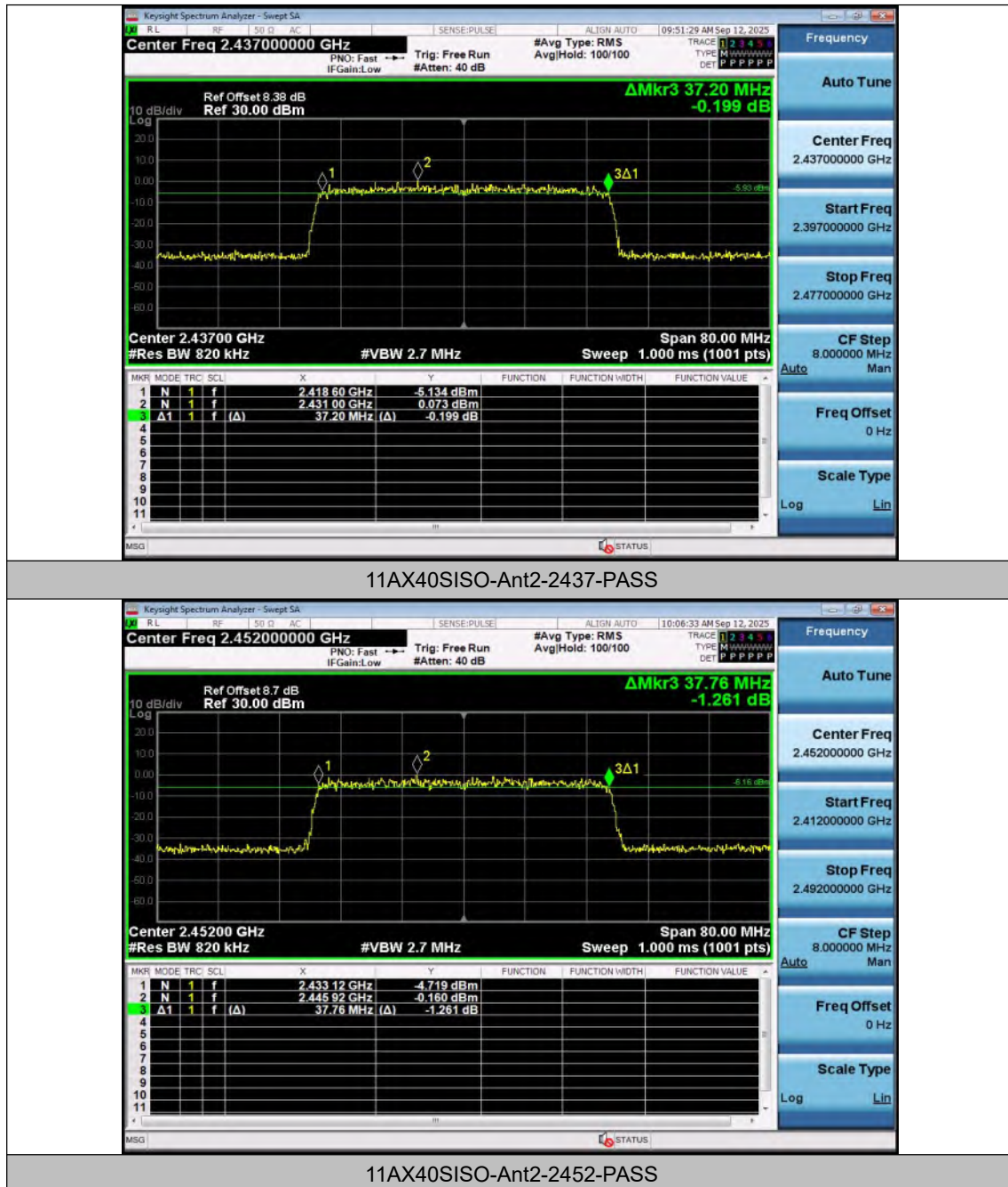




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Appendix B: Maximum conducted output power

Ant 1

Test Result

Test Mode	Antenna	Frequency[MHz]	Output power PK (dBm)	Limit [dBm]	Result
11B	Ant1	2412	12.50	≤30.00	PASS
11B	Ant1	2437	12.11	≤30.00	PASS
11B	Ant1	2462	12.93	≤30.00	PASS
11G	Ant1	2412	12.70	≤30.00	PASS
11G	Ant1	2437	13.47	≤30.00	PASS
11G	Ant1	2462	13.49	≤30.00	PASS
11N20SISO	Ant1	2412	13.35	≤30.00	PASS
11N20SISO	Ant1	2437	12.75	≤30.00	PASS
11N20SISO	Ant1	2462	12.85	≤30.00	PASS
11N40SISO	Ant1	2422	13.04	≤30.00	PASS
11N40SISO	Ant1	2437	13.18	≤30.00	PASS
11N40SISO	Ant1	2452	13.38	≤30.00	PASS
11AX20SISO	Ant1	2412	12.82	≤30.00	PASS
11AX20SISO	Ant1	2437	12.88	≤30.00	PASS
11AX20SISO	Ant1	2462	13.00	≤30.00	PASS
11AX40SISO	Ant1	2422	12.82	≤30.00	PASS
11AX40SISO	Ant1	2437	12.54	≤30.00	PASS
11AX40SISO	Ant1	2452	12.57	≤30.00	PASS



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Ant 2

Test Result

Test Mode	Antenna	Frequency[MHz]	Output power PK (dBm)	Limit [dBm]	Result
11B	Ant2	2412	12.76	≤30.00	PASS
11B	Ant2	2437	12.32	≤30.00	PASS
11B	Ant2	2462	12.37	≤30.00	PASS
11G	Ant2	2412	12.40	≤30.00	PASS
11G	Ant2	2437	13.03	≤30.00	PASS
11G	Ant2	2462	13.08	≤30.00	PASS
11N20SISO	Ant2	2412	12.38	≤30.00	PASS
11N20SISO	Ant2	2437	13.11	≤30.00	PASS
11N20SISO	Ant2	2462	12.97	≤30.00	PASS
11N40SISO	Ant2	2422	12.97	≤30.00	PASS
11N40SISO	Ant2	2437	13.01	≤30.00	PASS
11N40SISO	Ant2	2452	13.04	≤30.00	PASS
11AX20SISO	Ant2	2412	12.71	≤30.00	PASS
11AX20SISO	Ant2	2437	13.02	≤30.00	PASS
11AX20SISO	Ant2	2462	12.93	≤30.00	PASS
11AX40SISO	Ant2	2422	12.22	≤30.00	PASS
11AX40SISO	Ant2	2437	12.17	≤30.00	PASS
11AX40SISO	Ant2	2452	12.64	≤30.00	PASS



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MIMO

Type	Channel	Output power PK(dBm) ANT1	Output power PK(dBm) ANT2	Output power PK(dBm) MIMO	Limit (dBm)	Result
802.11n HT20	01	13.35	12.38	15.90	27.46	Pass
	06	12.75	13.11	15.94		
	11	12.85	12.97	15.92		
802.11n HT40	03	13.04	12.97	16.02	27.46	Pass
	06	13.18	13.01	16.11		
	09	13.38	13.04	16.22		
802.11ax HE20	01	12.82	12.71	15.78	27.46	Pass
	06	12.88	13.02	15.96		
	11	13.00	12.93	15.98		
802.11ax HE40	03	12.82	12.22	15.54	27.46	Pass
	06	12.54	12.17	15.37		
	09	12.57	12.64	15.62		

Remark: Directional gain is 8.54 dBi.



Appendix C: Maximum power spectral density

Ant 1

Test Result

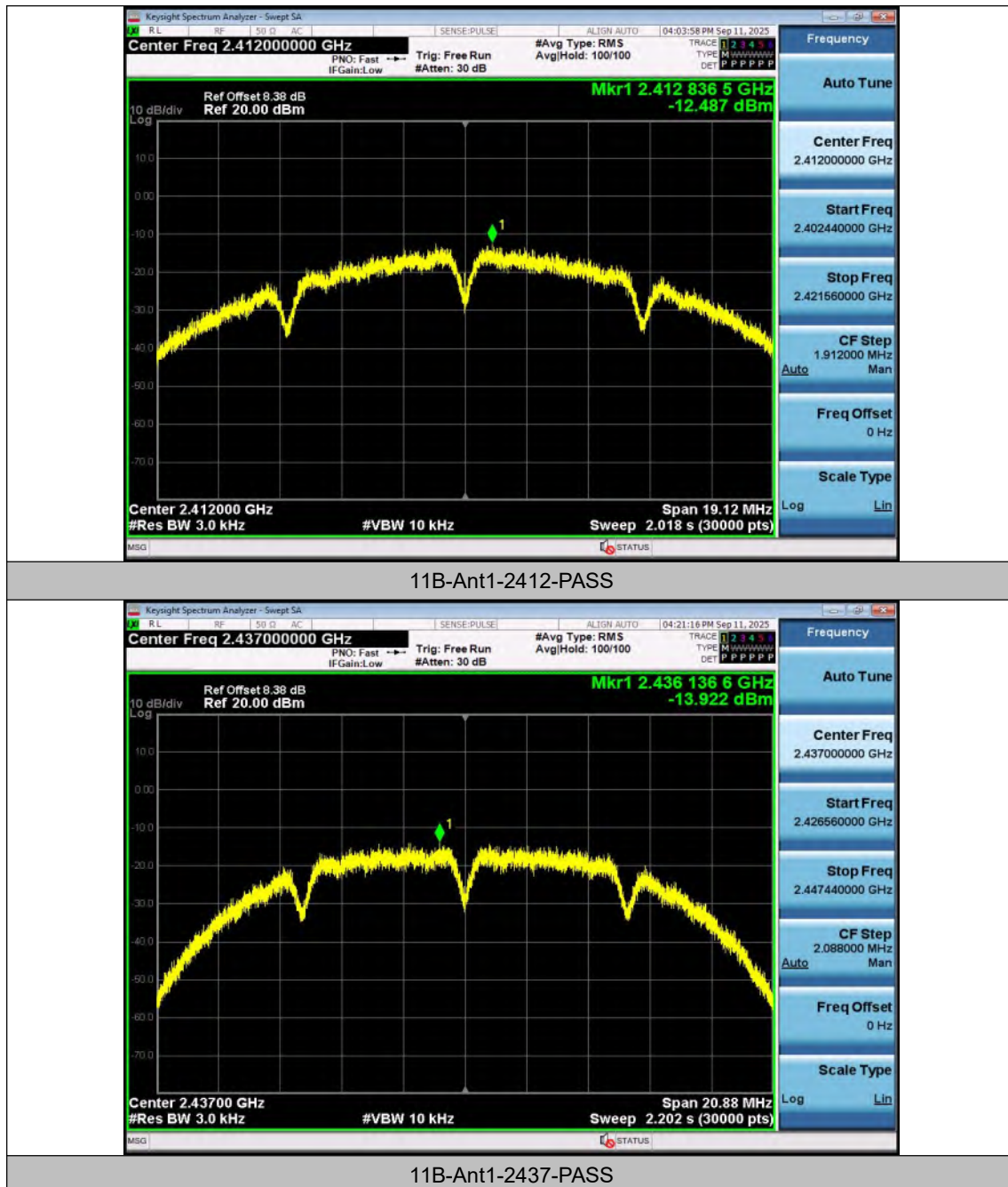
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.49	≤8.00	PASS
11B	Ant1	2437	-13.92	≤8.00	PASS
11B	Ant1	2462	-13.38	≤8.00	PASS
11G	Ant1	2412	-20.73	≤8.00	PASS
11G	Ant1	2437	-20.30	≤8.00	PASS
11G	Ant1	2462	-20.16	≤8.00	PASS
11N20SISO	Ant1	2412	-20.22	≤8.00	PASS
11N20SISO	Ant1	2437	-19.76	≤8.00	PASS
11N20SISO	Ant1	2462	-19.57	≤8.00	PASS
11N40SISO	Ant1	2422	-21.73	≤8.00	PASS
11N40SISO	Ant1	2437	-22.99	≤8.00	PASS
11N40SISO	Ant1	2452	-23.27	≤8.00	PASS
11AX20SISO	Ant1	2412	-18.19	≤8.00	PASS
11AX20SISO	Ant1	2437	-19.26	≤8.00	PASS
11AX20SISO	Ant1	2462	-20.03	≤8.00	PASS
11AX40SISO	Ant1	2422	-22.06	≤8.00	PASS
11AX40SISO	Ant1	2437	-23.39	≤8.00	PASS
11AX40SISO	Ant1	2452	-23.03	≤8.00	PASS



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Test Graphs

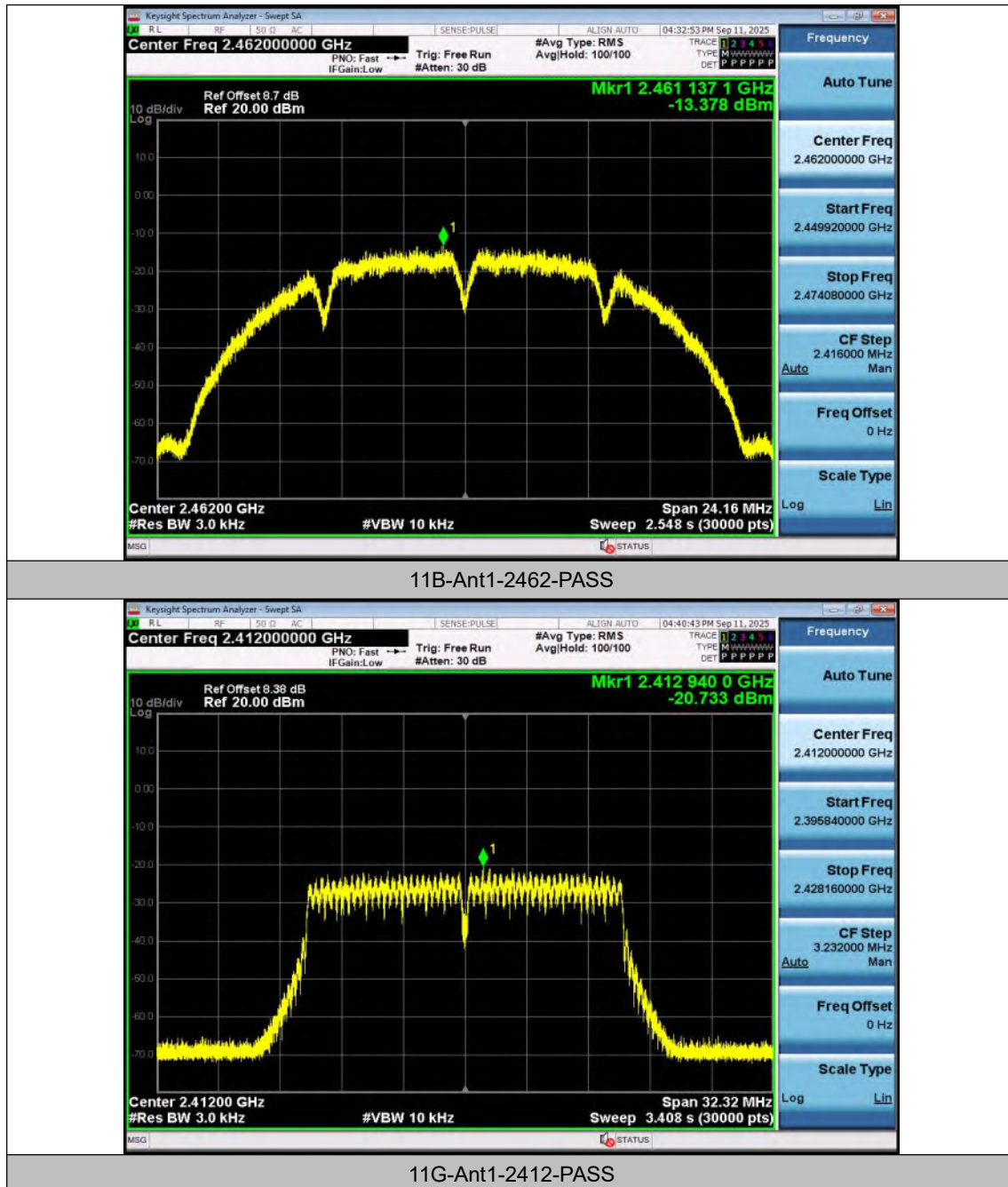




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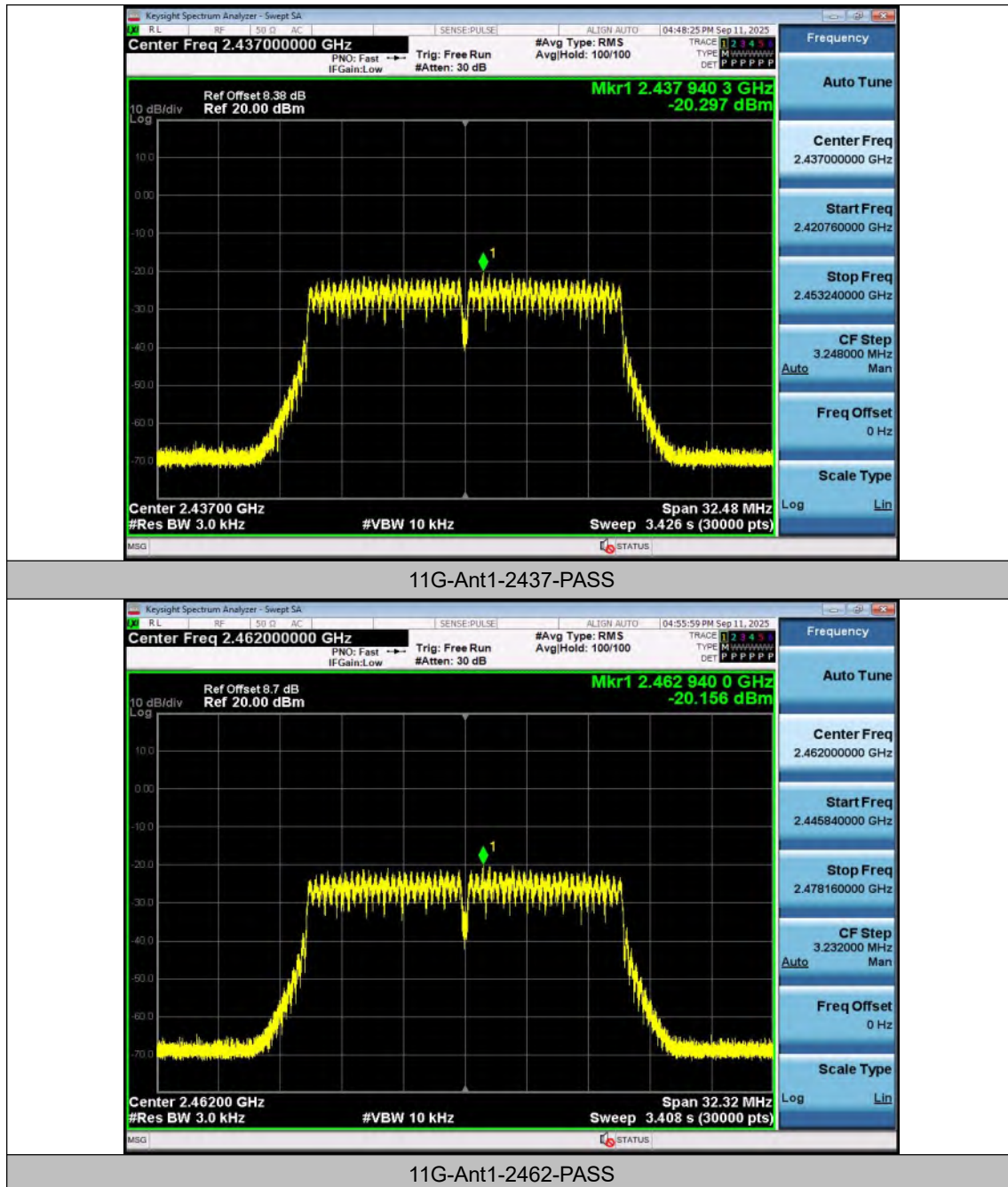




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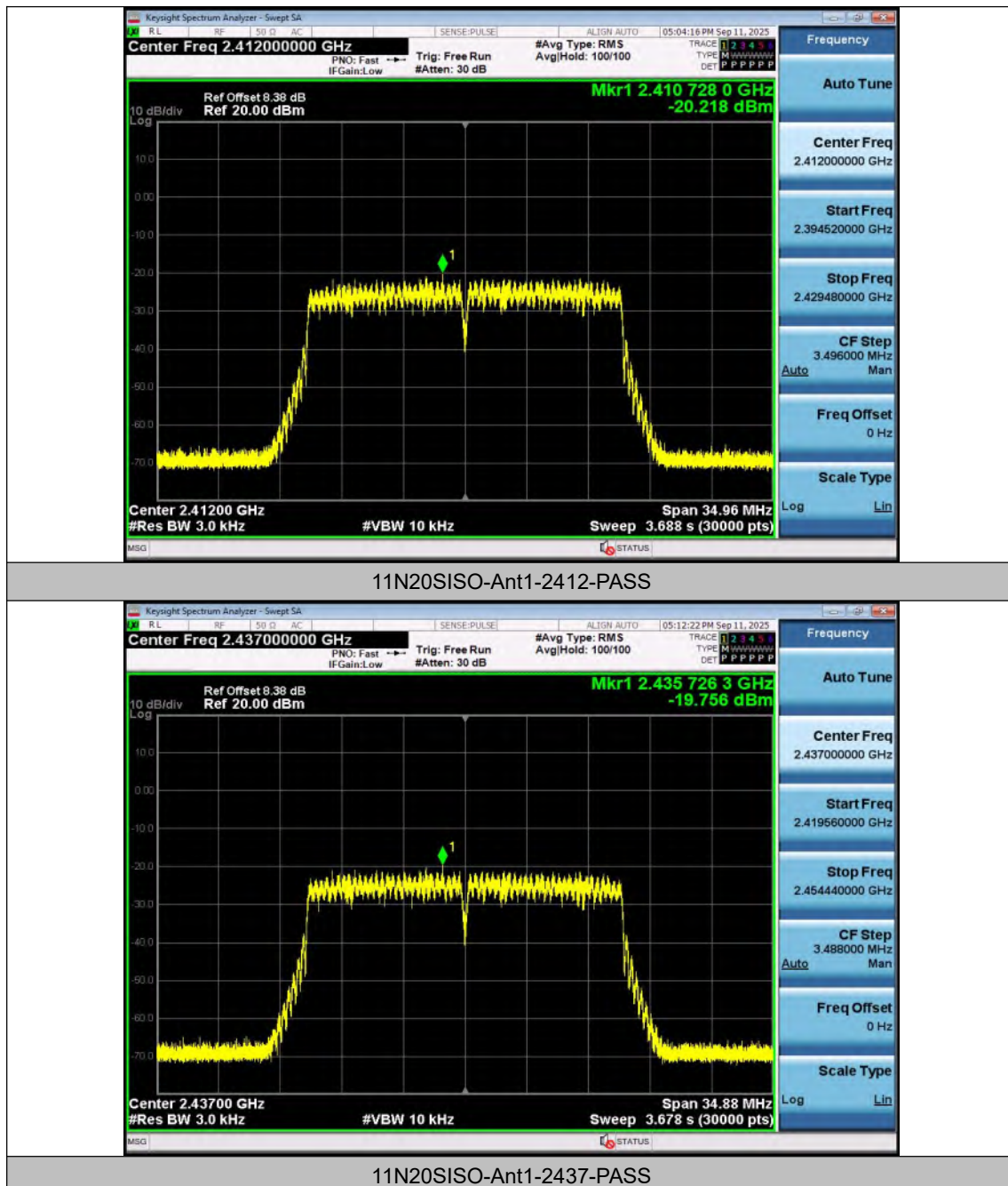




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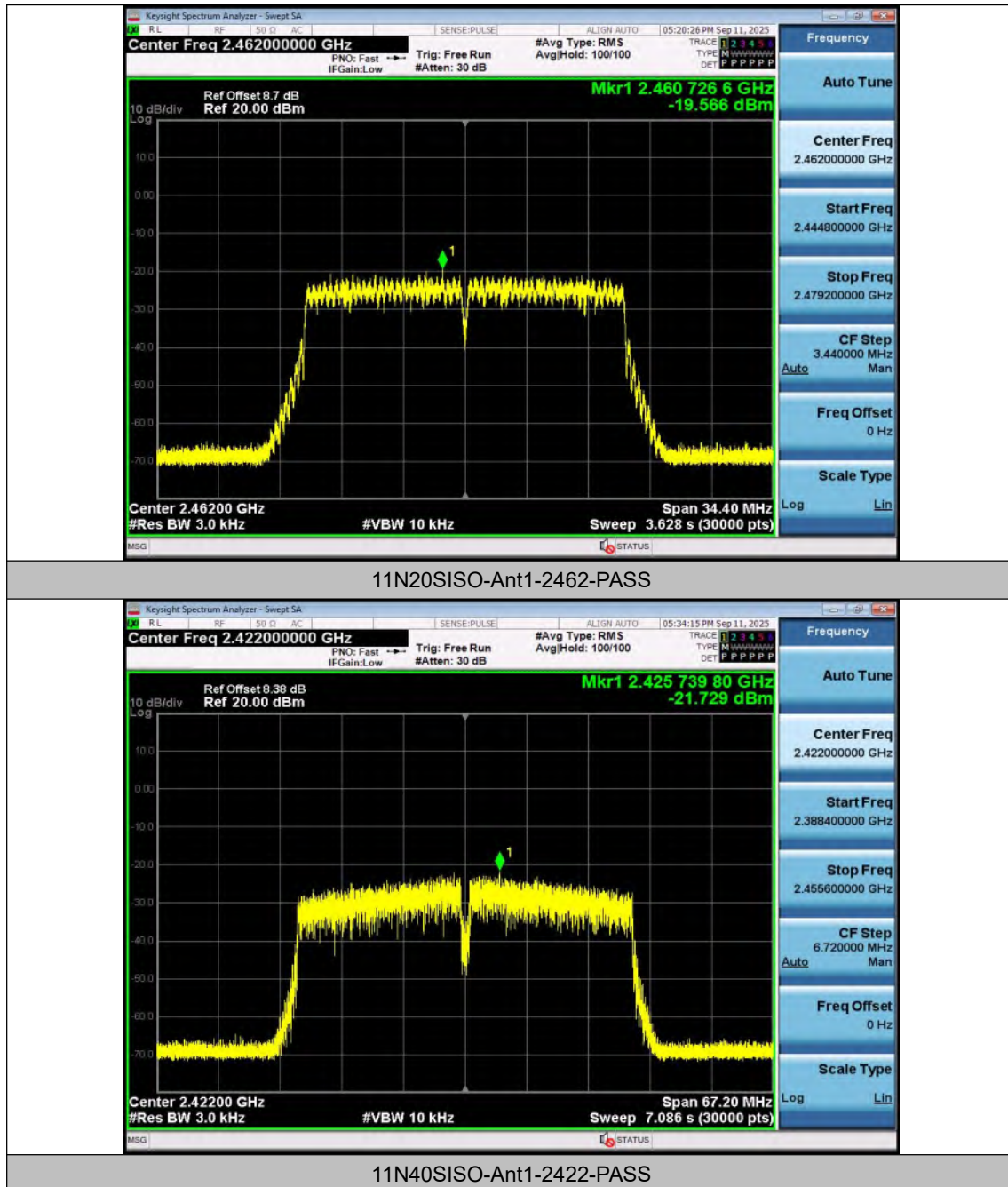




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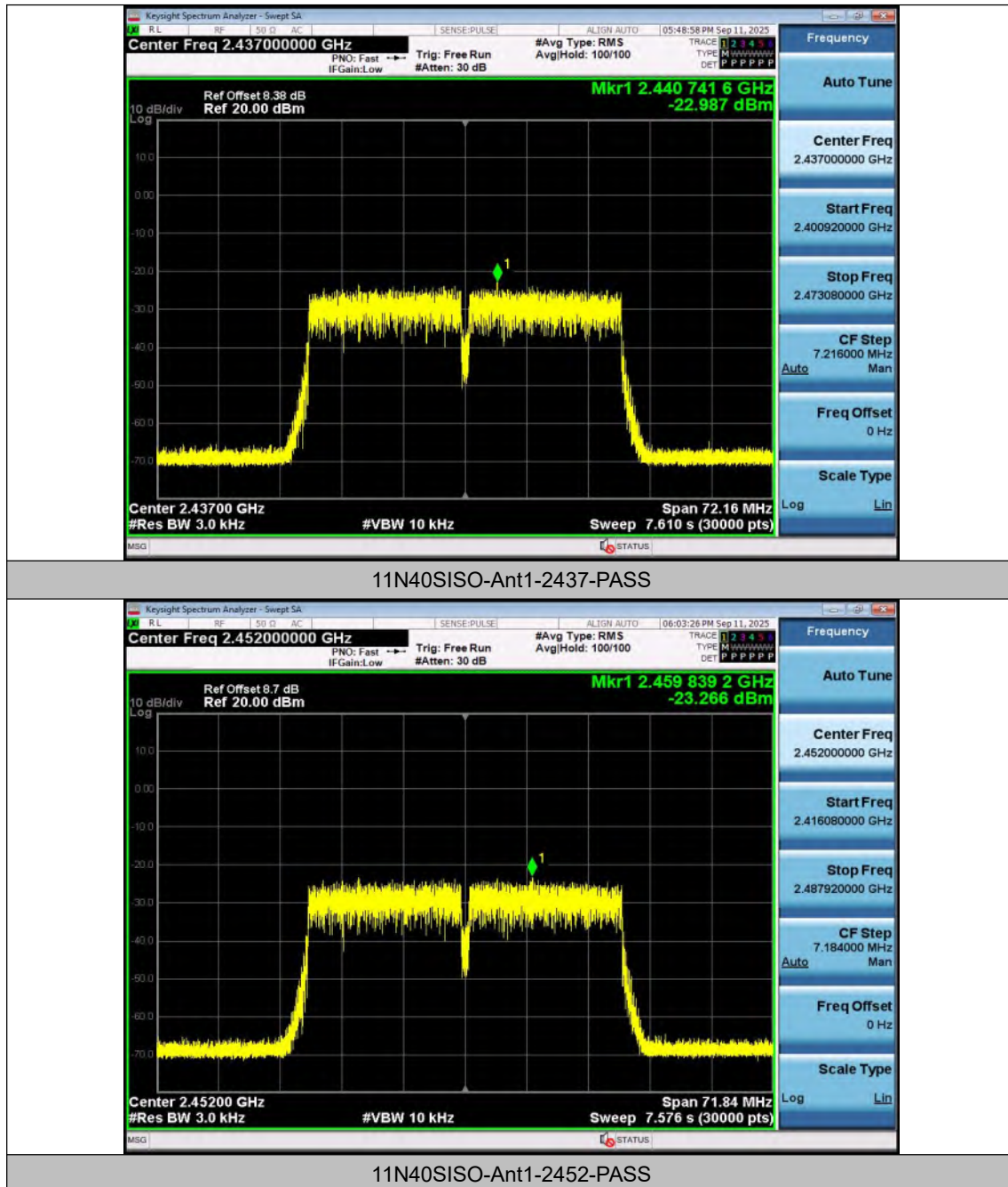




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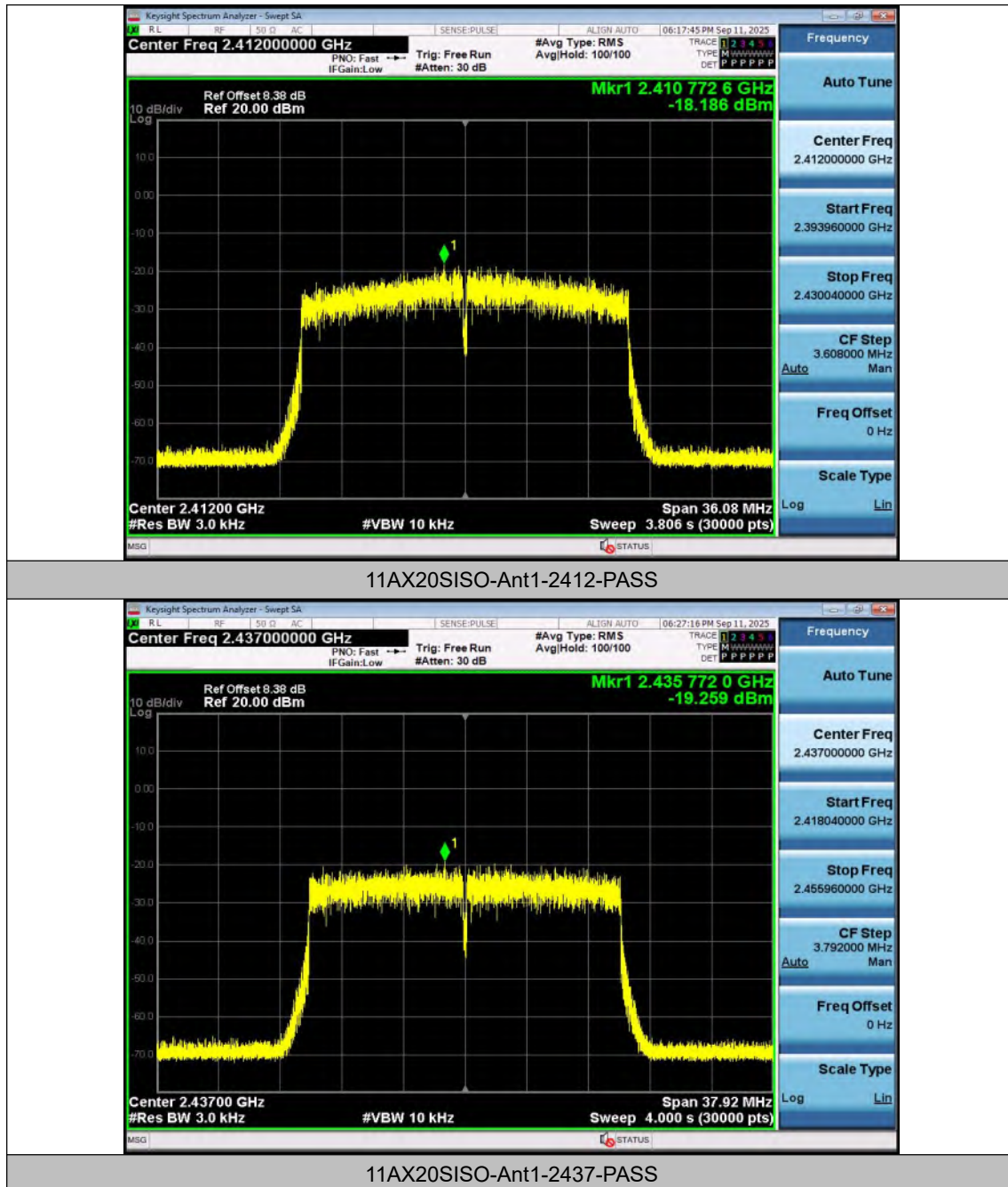




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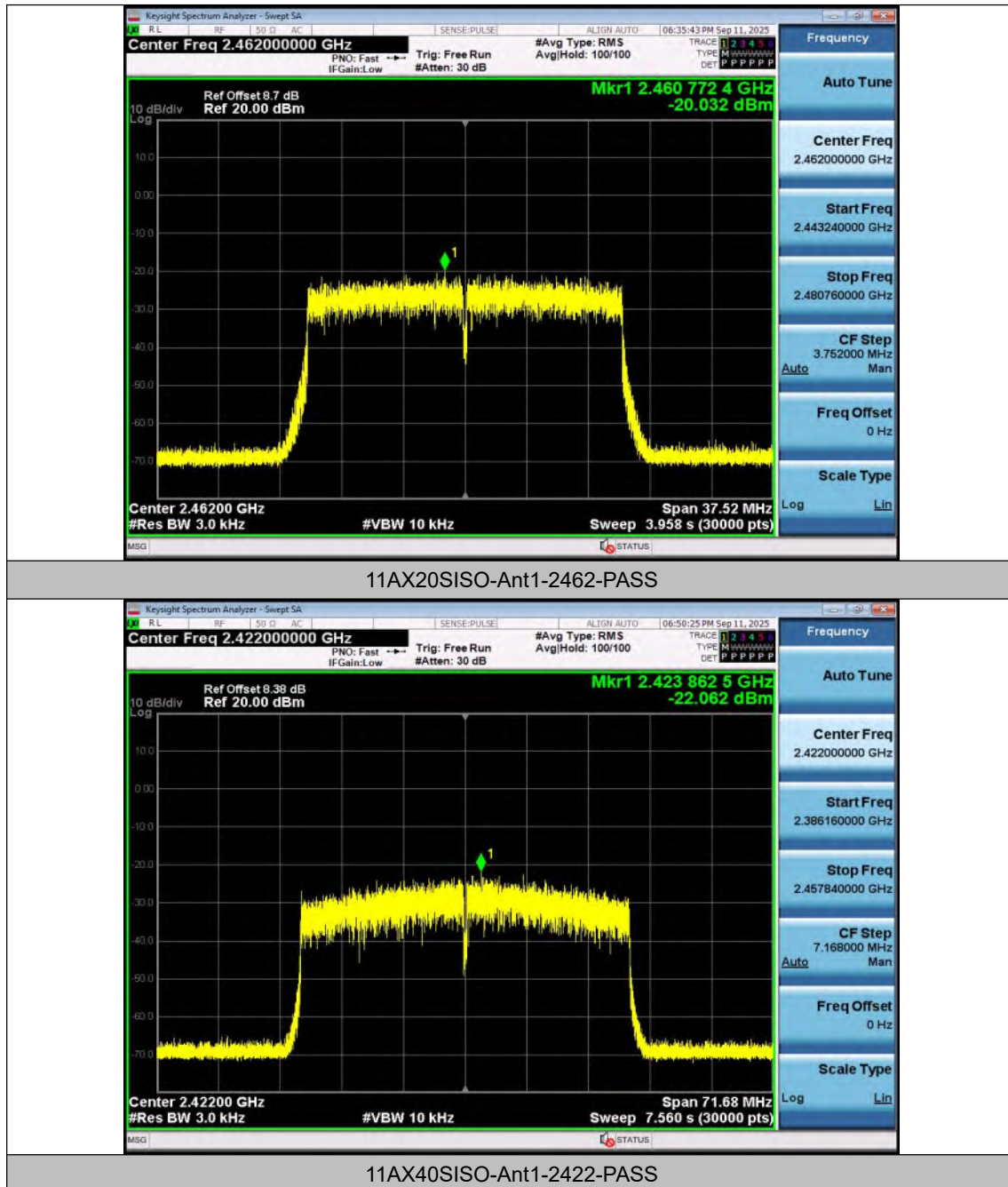




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FCCID:2A22E-R-W62508

GRCTR250902027-01

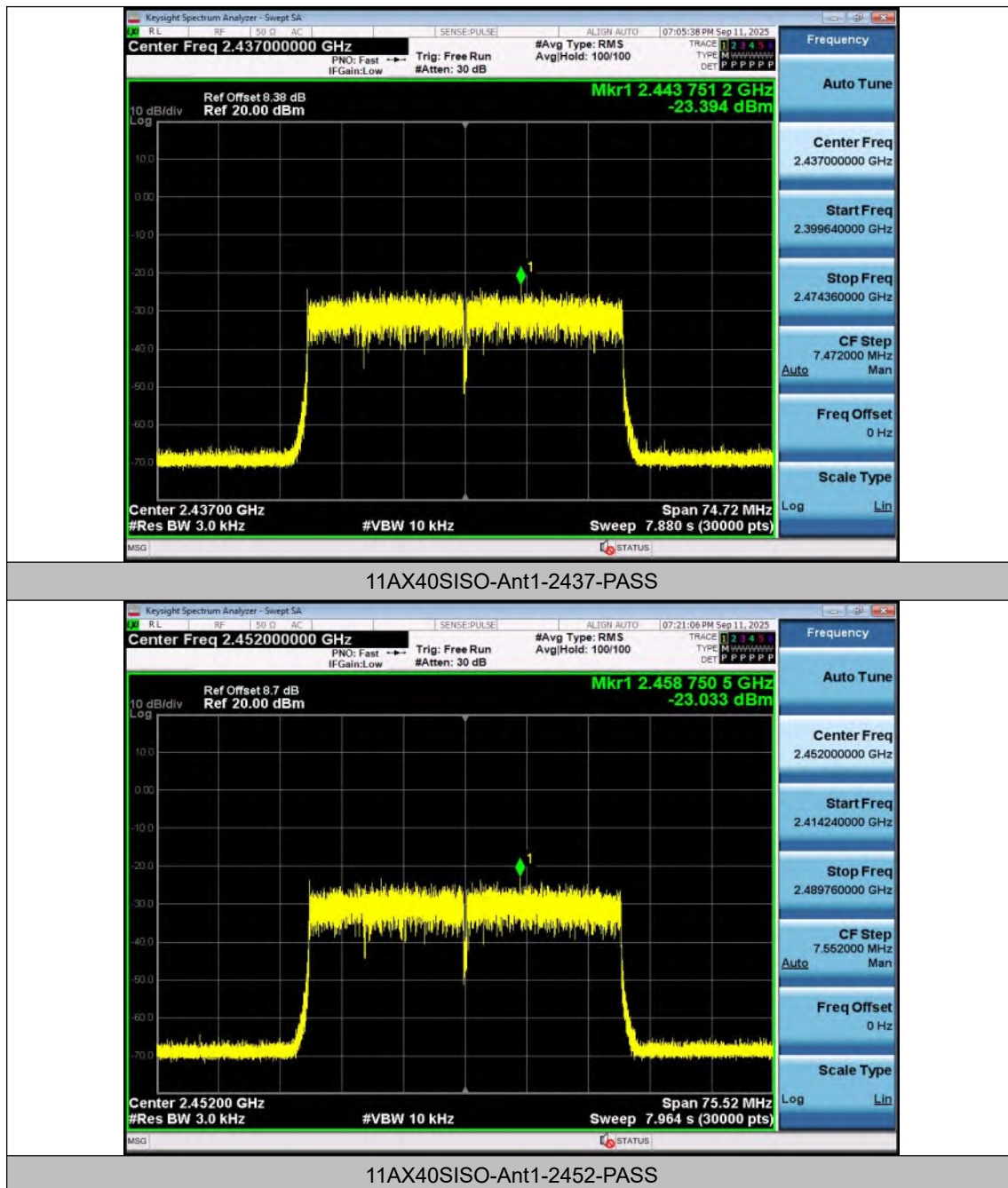




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FCCID:2A22E-R-W62508

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Ant 2

Test Result

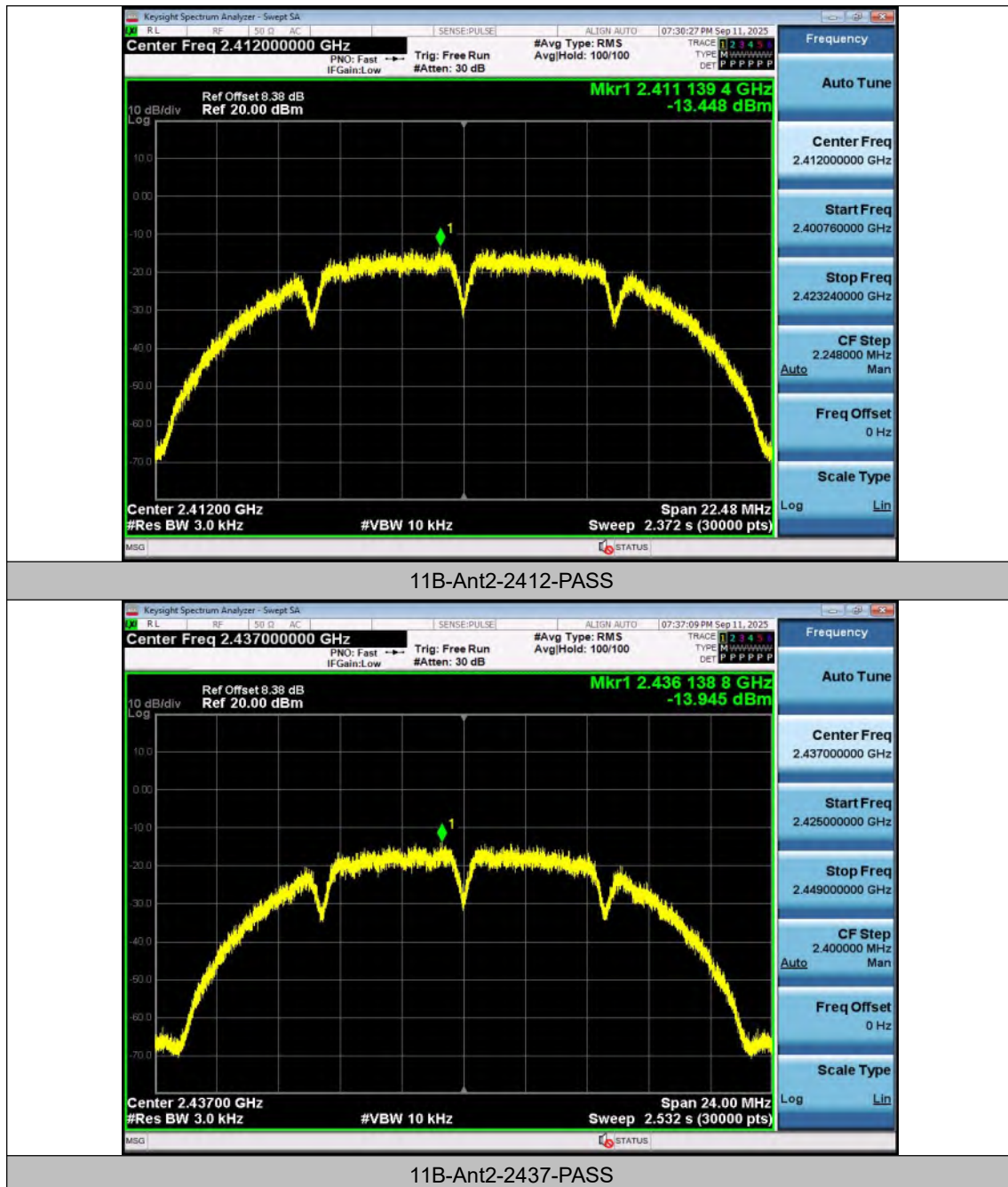
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	-13.45	≤8.00	PASS
11B	Ant2	2437	-13.95	≤8.00	PASS
11B	Ant2	2462	-13.90	≤8.00	PASS
11G	Ant2	2412	-21.39	≤8.00	PASS
11G	Ant2	2437	-20.76	≤8.00	PASS
11G	Ant2	2462	-20.69	≤8.00	PASS
11N20SISO	Ant2	2412	-20.32	≤8.00	PASS
11N20SISO	Ant2	2437	-19.58	≤8.00	PASS
11N20SISO	Ant2	2462	-19.53	≤8.00	PASS
11N40SISO	Ant2	2422	-20.88	≤8.00	PASS
11N40SISO	Ant2	2437	-20.92	≤8.00	PASS
11N40SISO	Ant2	2452	-20.72	≤8.00	PASS
11AX20SISO	Ant2	2412	-20.85	≤8.00	PASS
11AX20SISO	Ant2	2437	-20.40	≤8.00	PASS
11AX20SISO	Ant2	2462	-20.41	≤8.00	PASS
11AX40SISO	Ant2	2422	-22.49	≤8.00	PASS
11AX40SISO	Ant2	2437	-23.45	≤8.00	PASS
11AX40SISO	Ant2	2452	-23.33	≤8.00	PASS



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Test Graphs

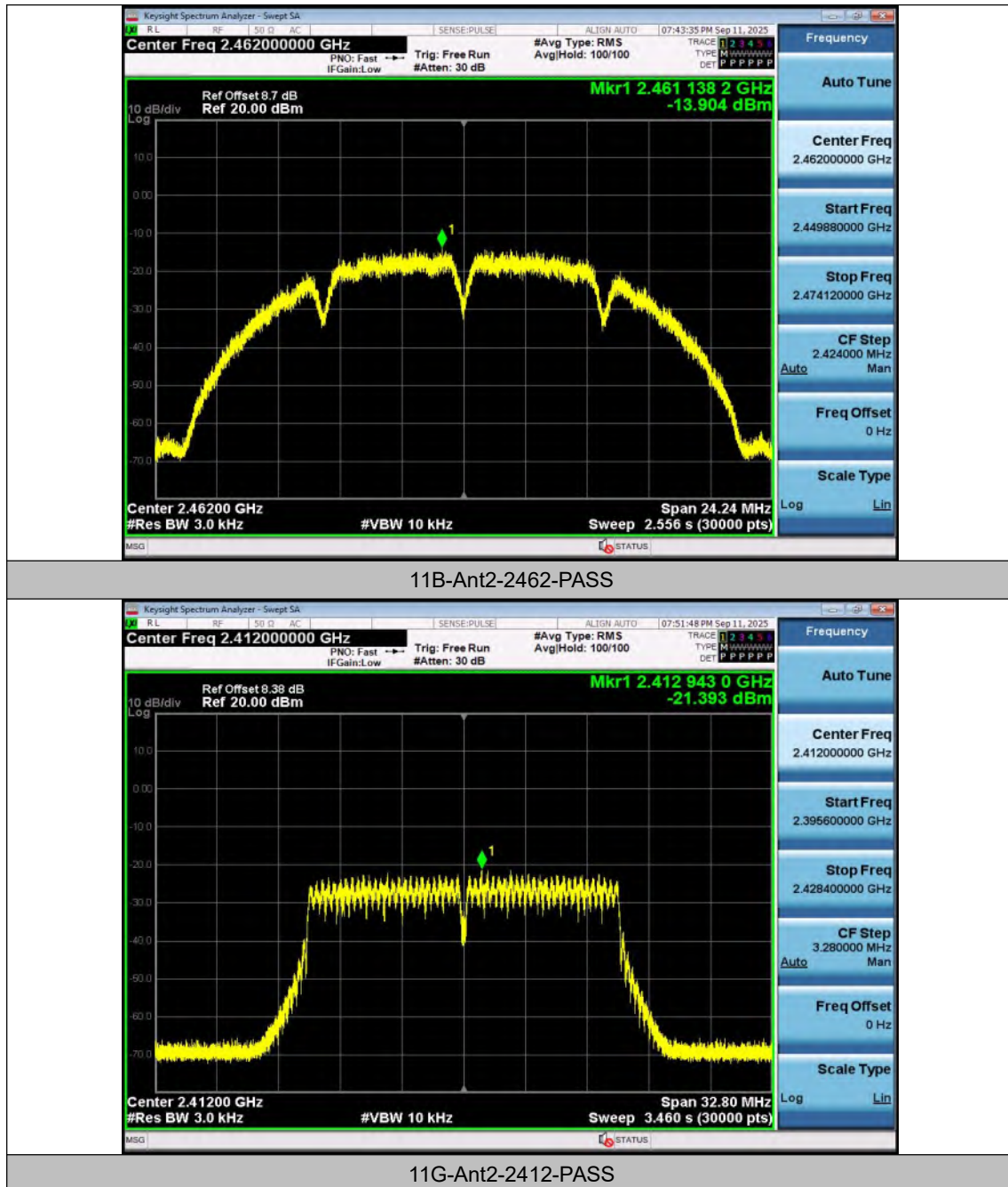




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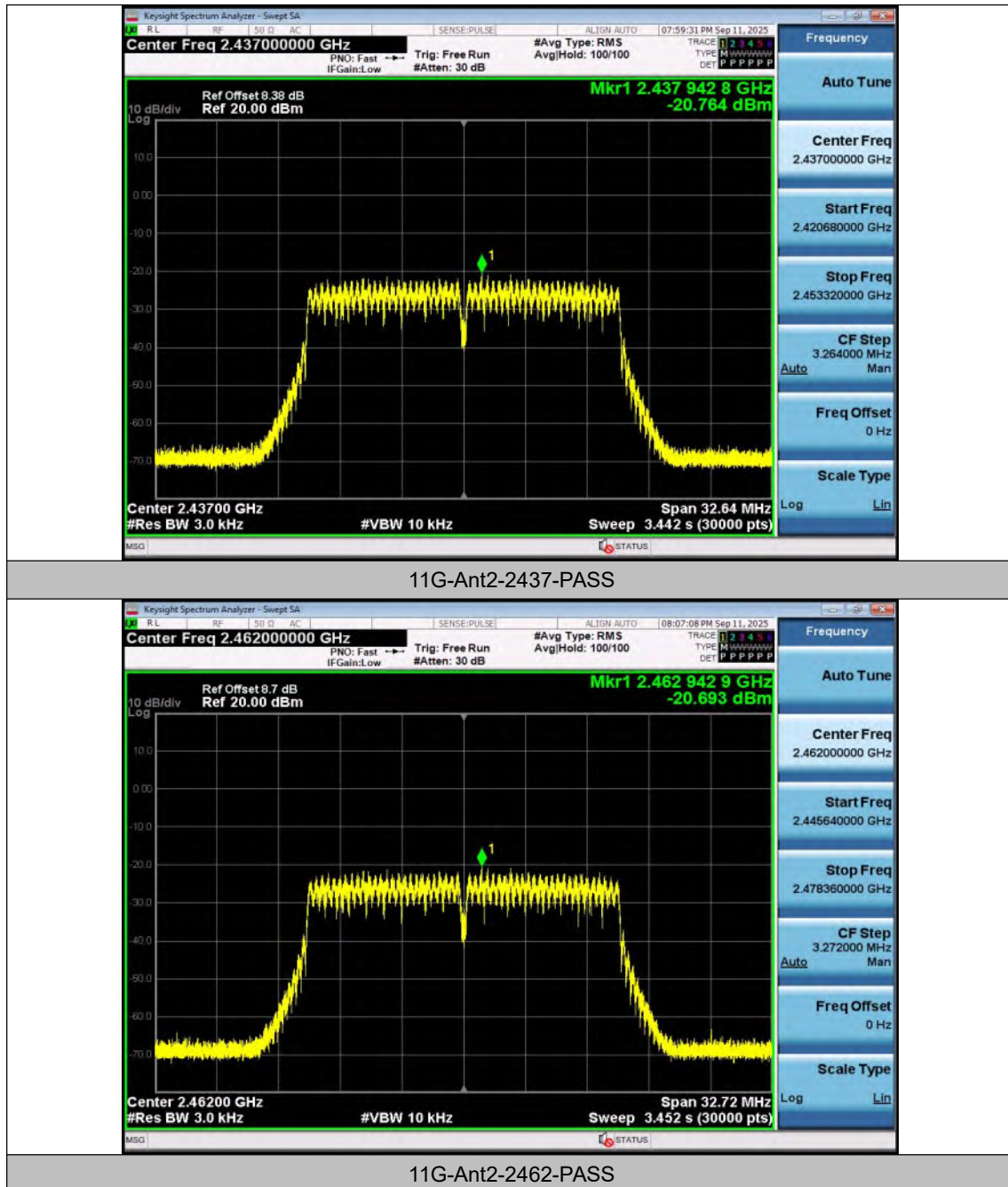




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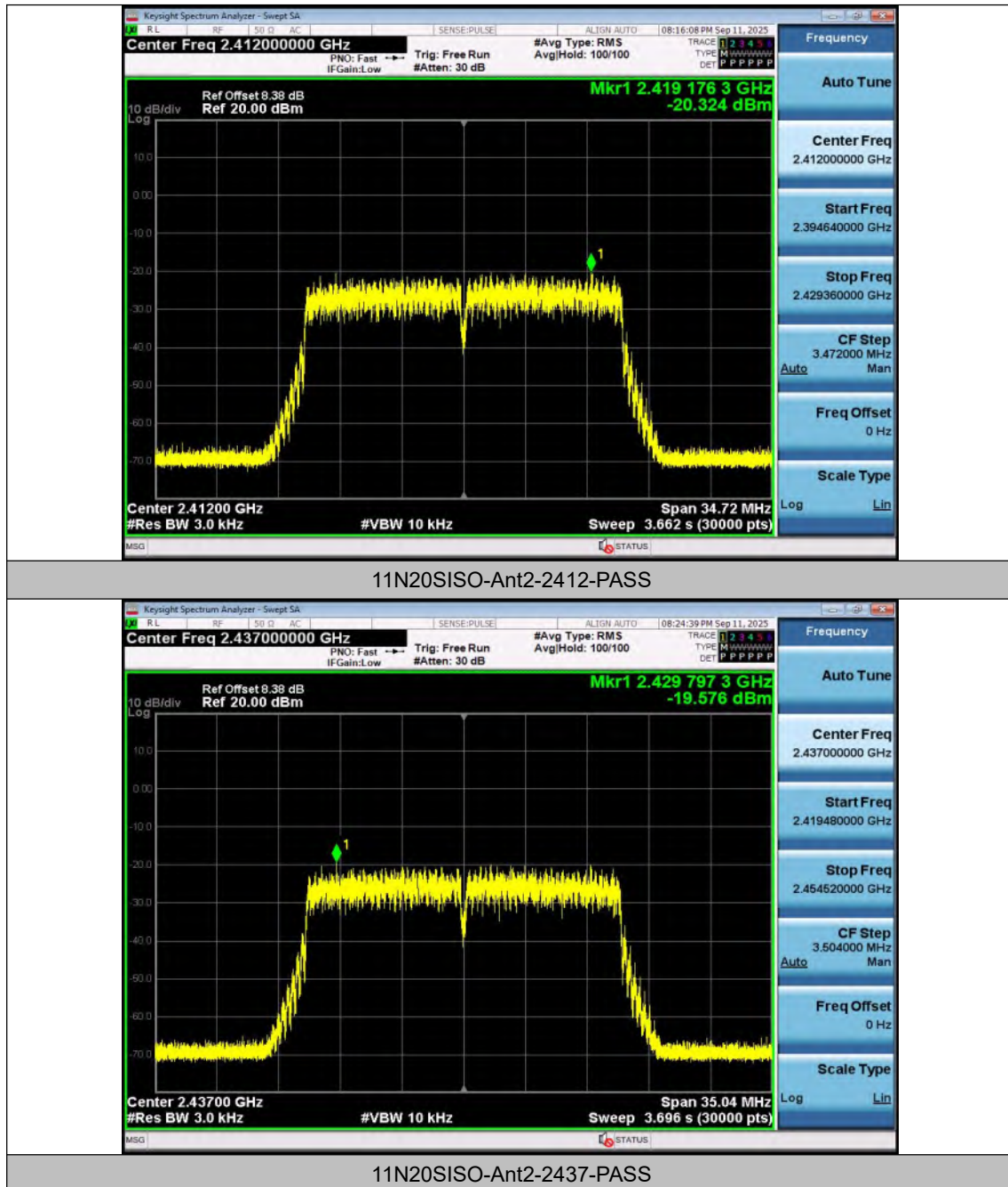




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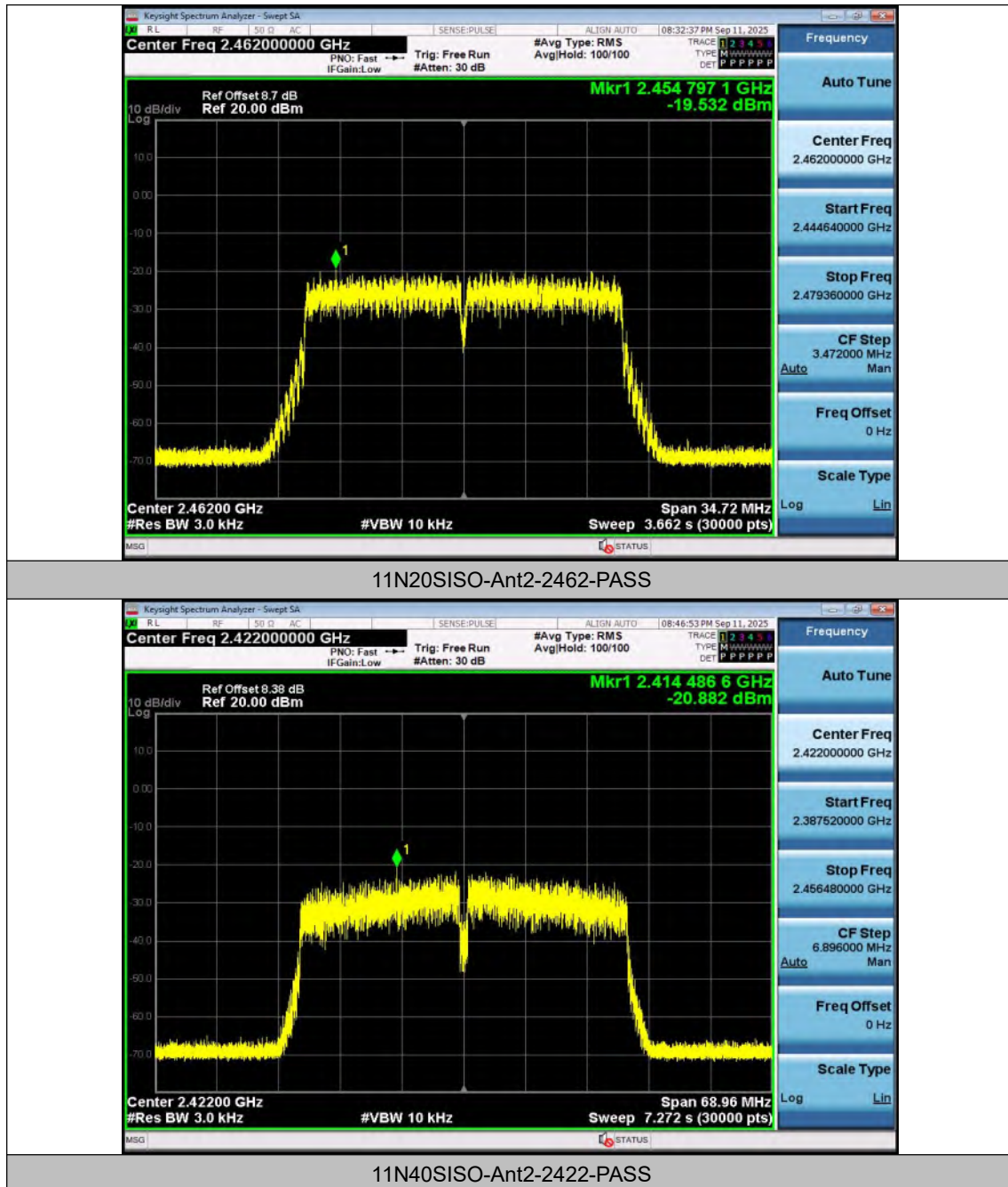
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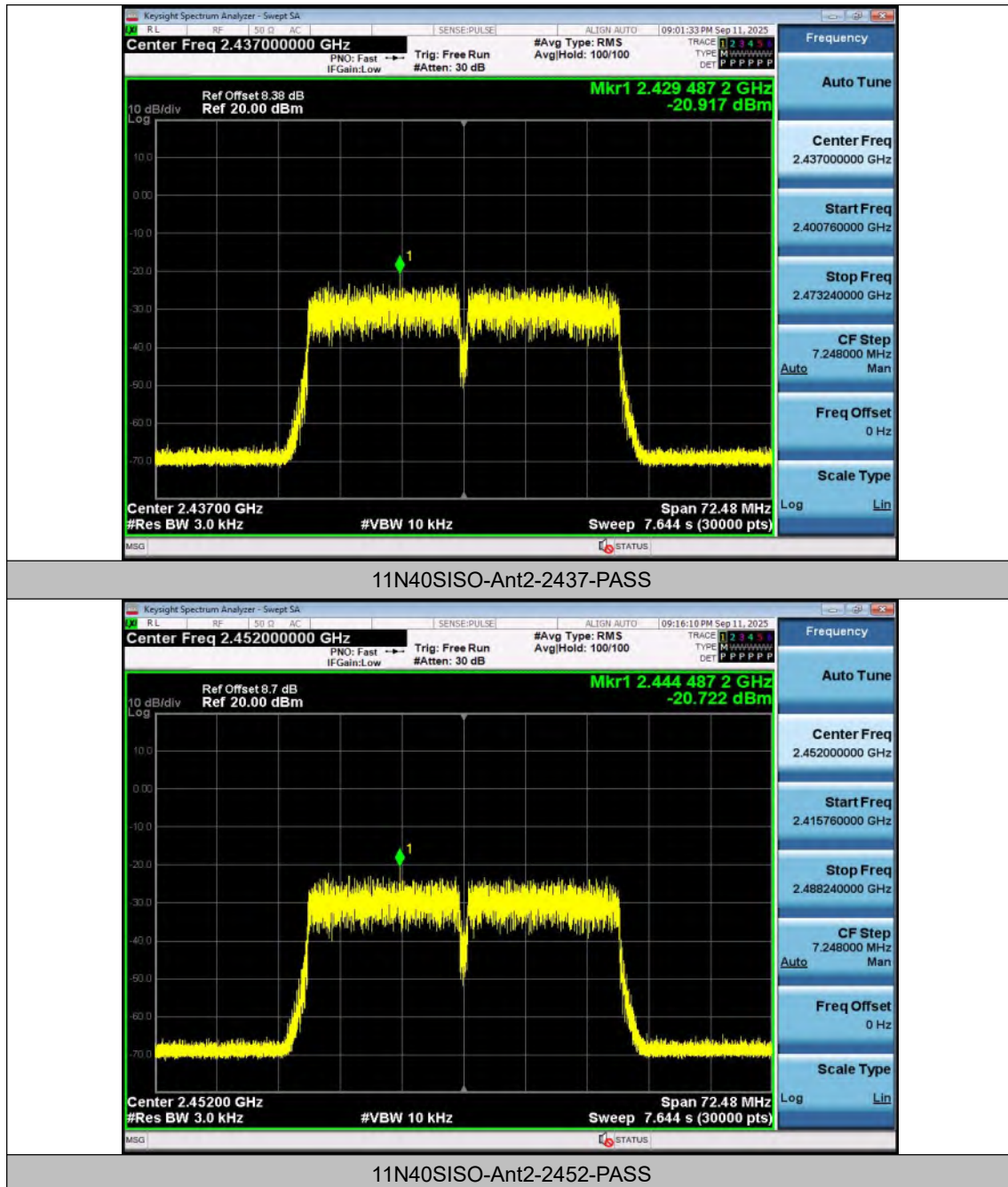




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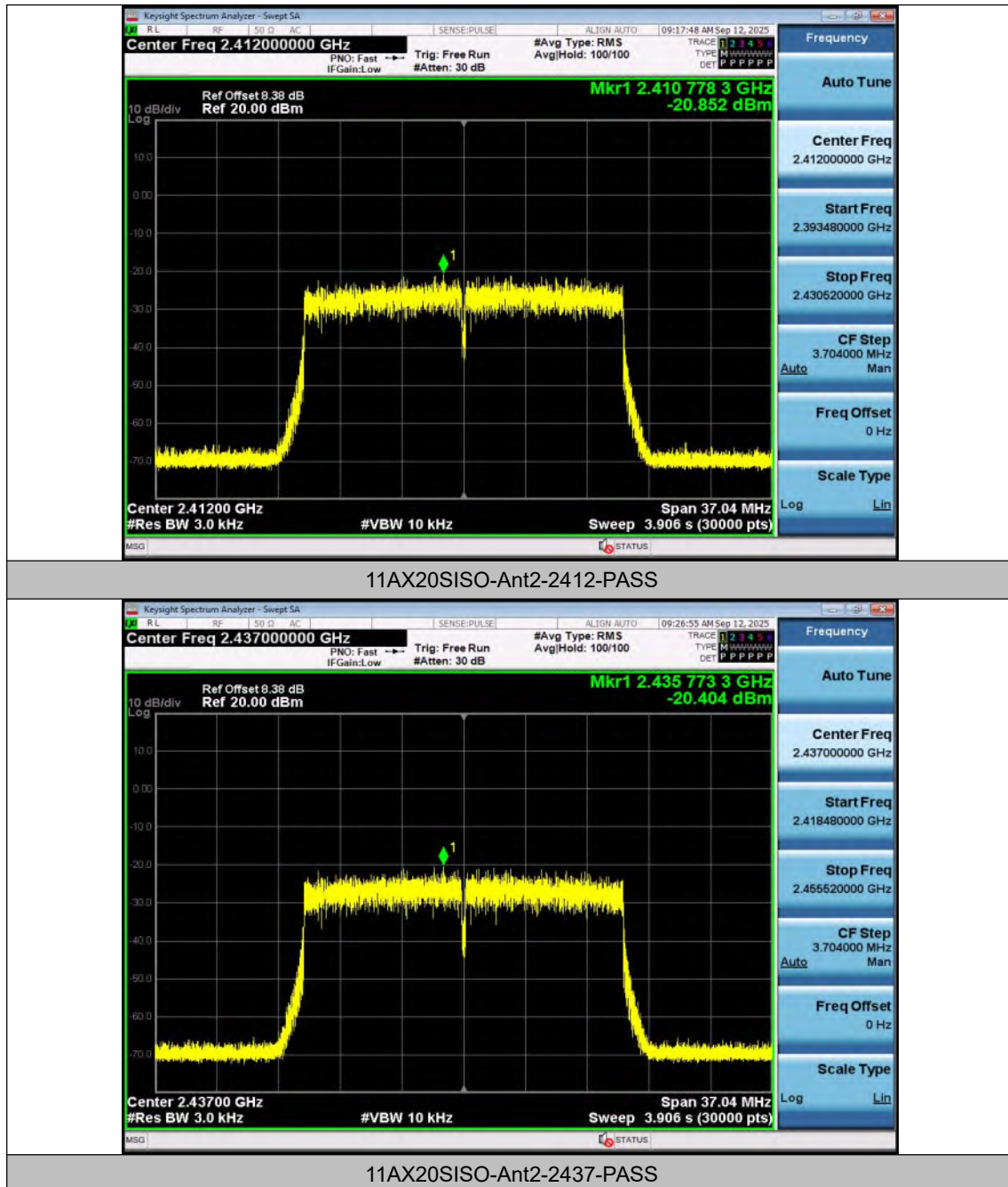




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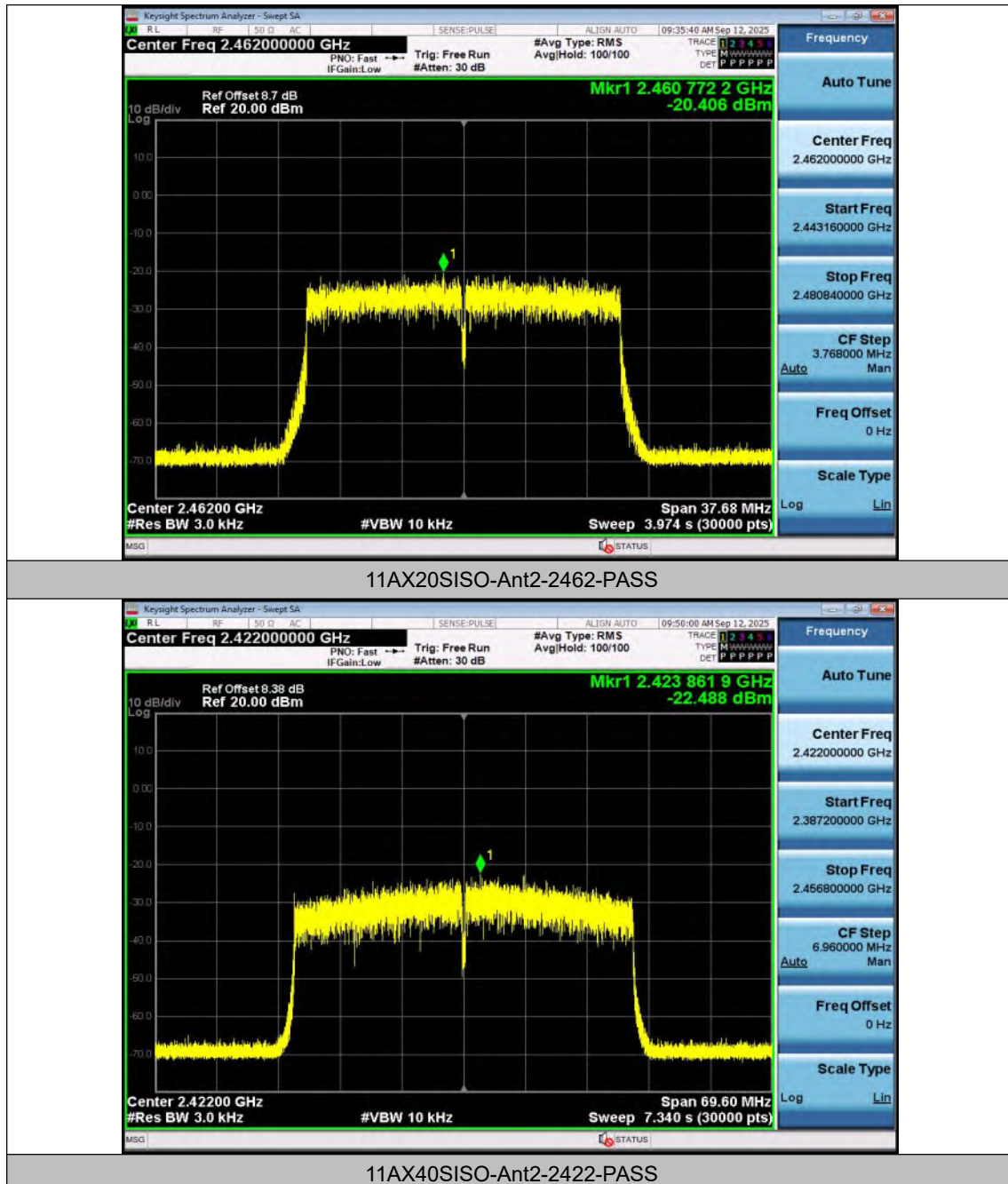




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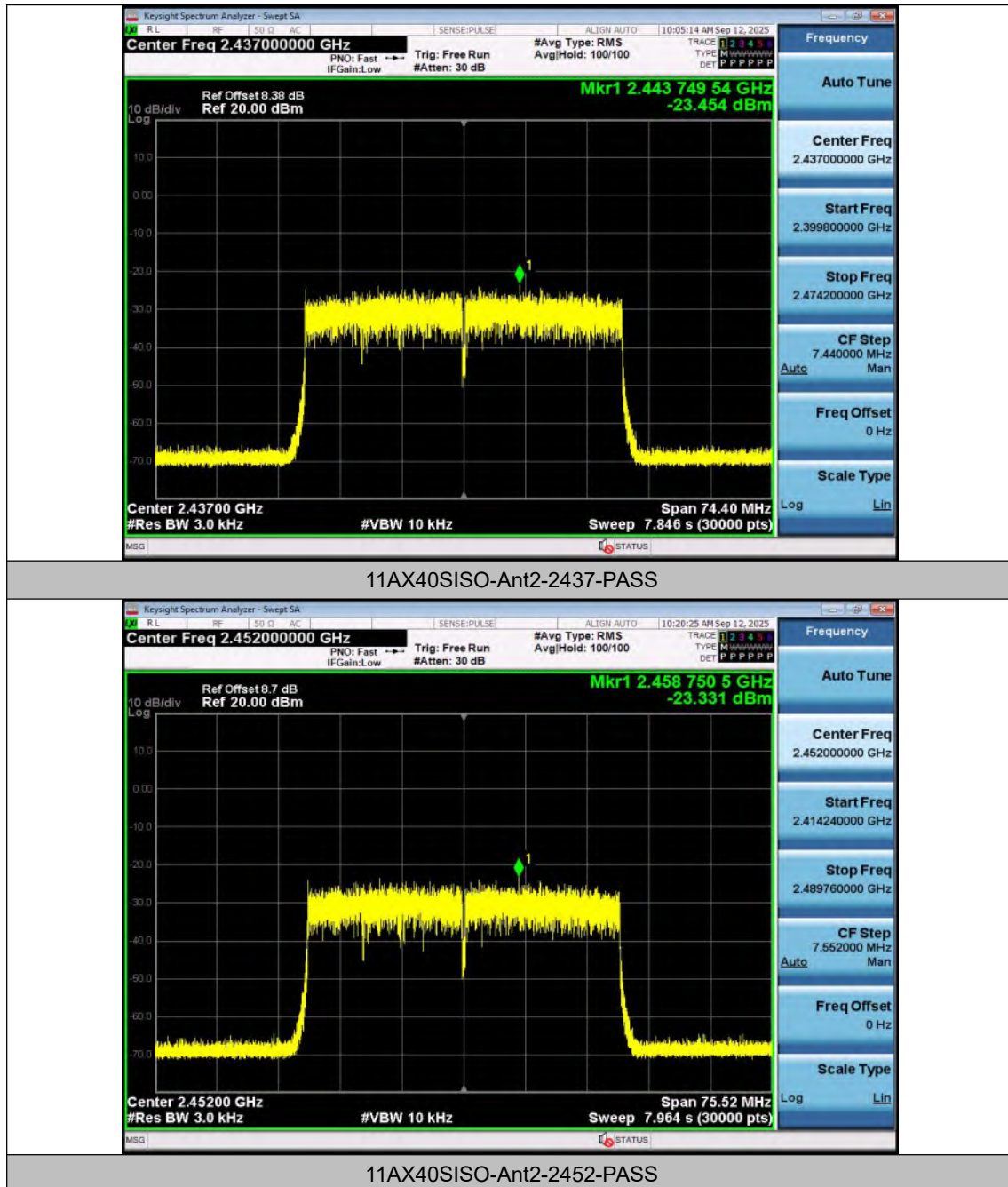




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MIMO

Type	Channel	Power Spectral Density (dBm/3KHz) ANT1	Power Spectral Density (dBm/3KHz) ANT2	Power Spectral Density (dBm/3KHz) MIMO	Limit (dBm/3KHz)	Result
802.11n HT20	01	-20.22	-20.32	-17.26	5.46	Pass
	06	-19.76	-19.58	-16.66		
	11	-19.57	-19.53	-16.54		
802.11n HT40	03	-21.73	-20.88	-18.27	5.46	Pass
	06	-22.99	-20.92	-18.82		
	09	-23.27	-20.72	-18.80		
802.11ax HE20	01	-18.19	-20.85	-16.31	5.46	Pass
	06	-19.26	-20.40	-16.78		
	11	-20.03	-20.41	-17.21		
802.11ax HE40	03	-22.06	-22.49	-19.26	5.46	Pass
	06	-23.39	-23.45	-20.41		
	09	-23.03	-23.33	-20.17		

Remark: Directional gain is 8.54 dBi.



Appendix D: Band edge measurements

Ant 1

Test Result

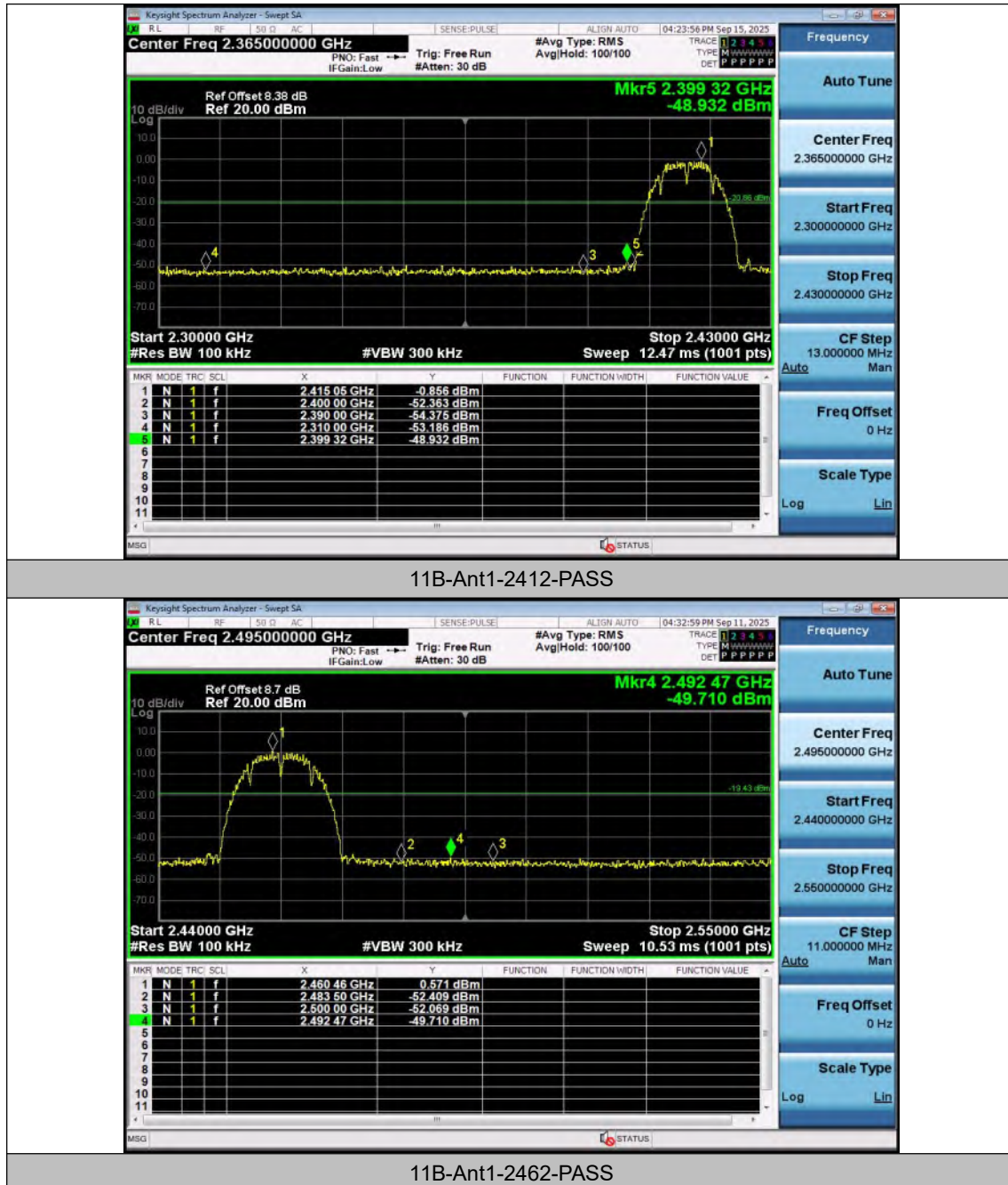
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.86	-48.93	≤ -20.86	PASS
11B	Ant1	High	2462	0.57	-49.71	≤ -19.43	PASS
11G	Ant1	Low	2412	-4.65	-51.11	≤ -24.65	PASS
11G	Ant1	High	2462	-5.42	-50.63	≤ -25.42	PASS
11N20SISO	Ant1	Low	2412	-4.68	-50.92	≤ -24.68	PASS
11N20SISO	Ant1	High	2462	-5.07	-50.39	≤ -25.07	PASS
11N40SISO	Ant1	Low	2422	-5.66	-50.86	≤ -25.66	PASS
11N40SISO	Ant1	High	2452	-6.97	-50.39	≤ -26.97	PASS
11AX20SISO	Ant1	Low	2412	-4.83	-50.56	≤ -24.83	PASS
11AX20SISO	Ant1	High	2462	-5.42	-49.78	≤ -25.42	PASS
11AX40SISO	Ant1	Low	2422	-8.59	-50.95	≤ -28.59	PASS
11AX40SISO	Ant1	High	2452	-8.02	-50.59	≤ -28.02	PASS



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Test Graphs

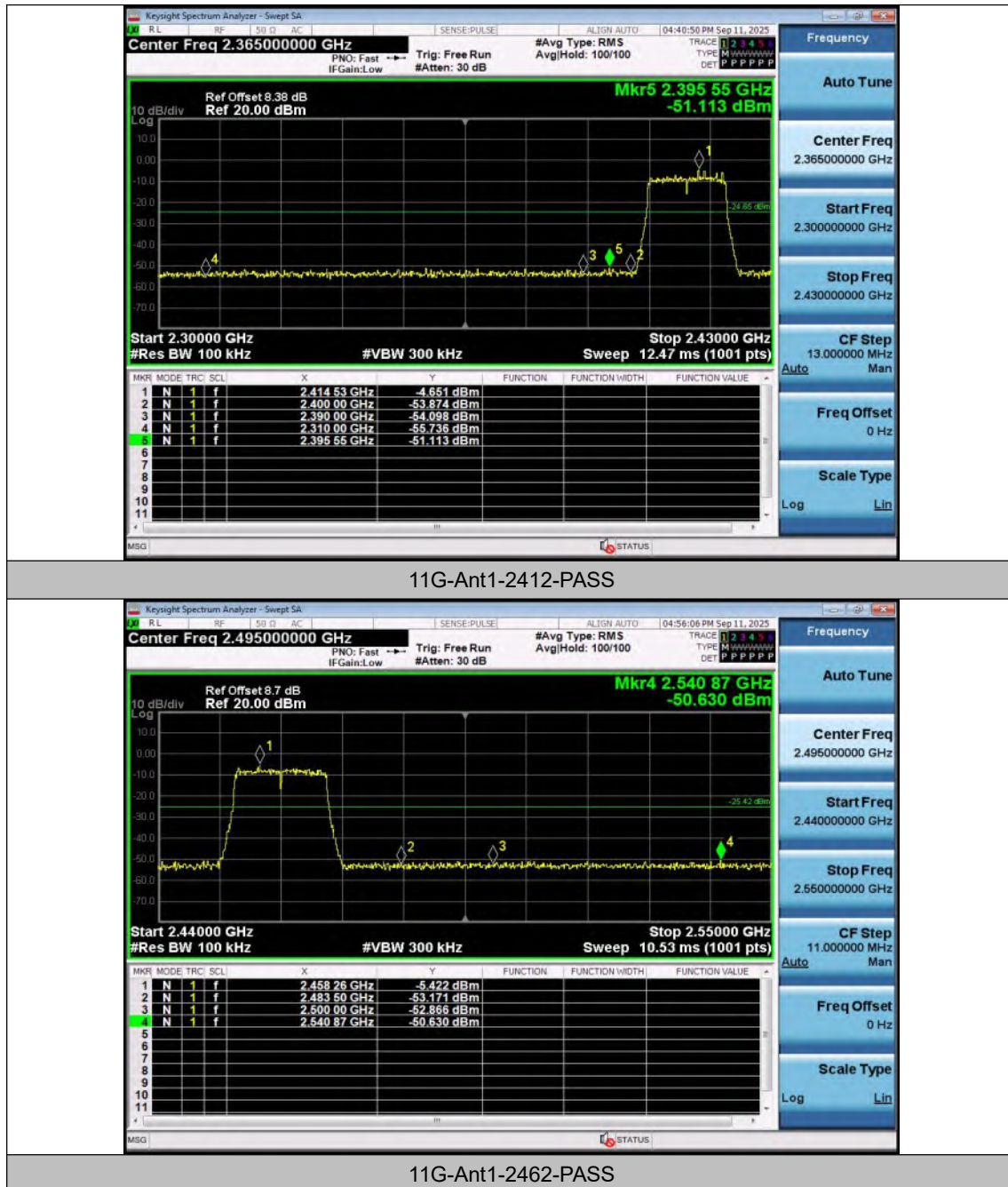




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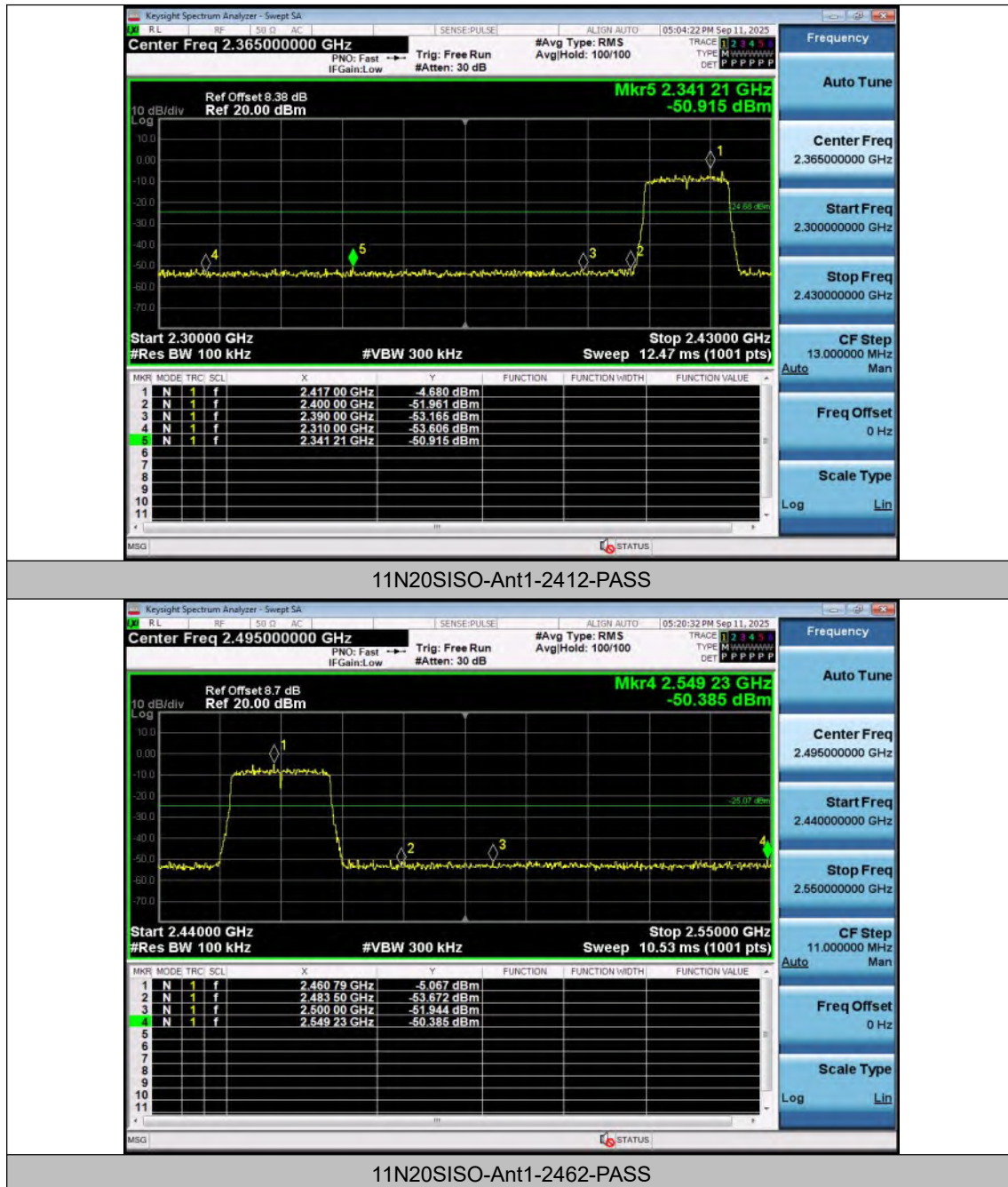




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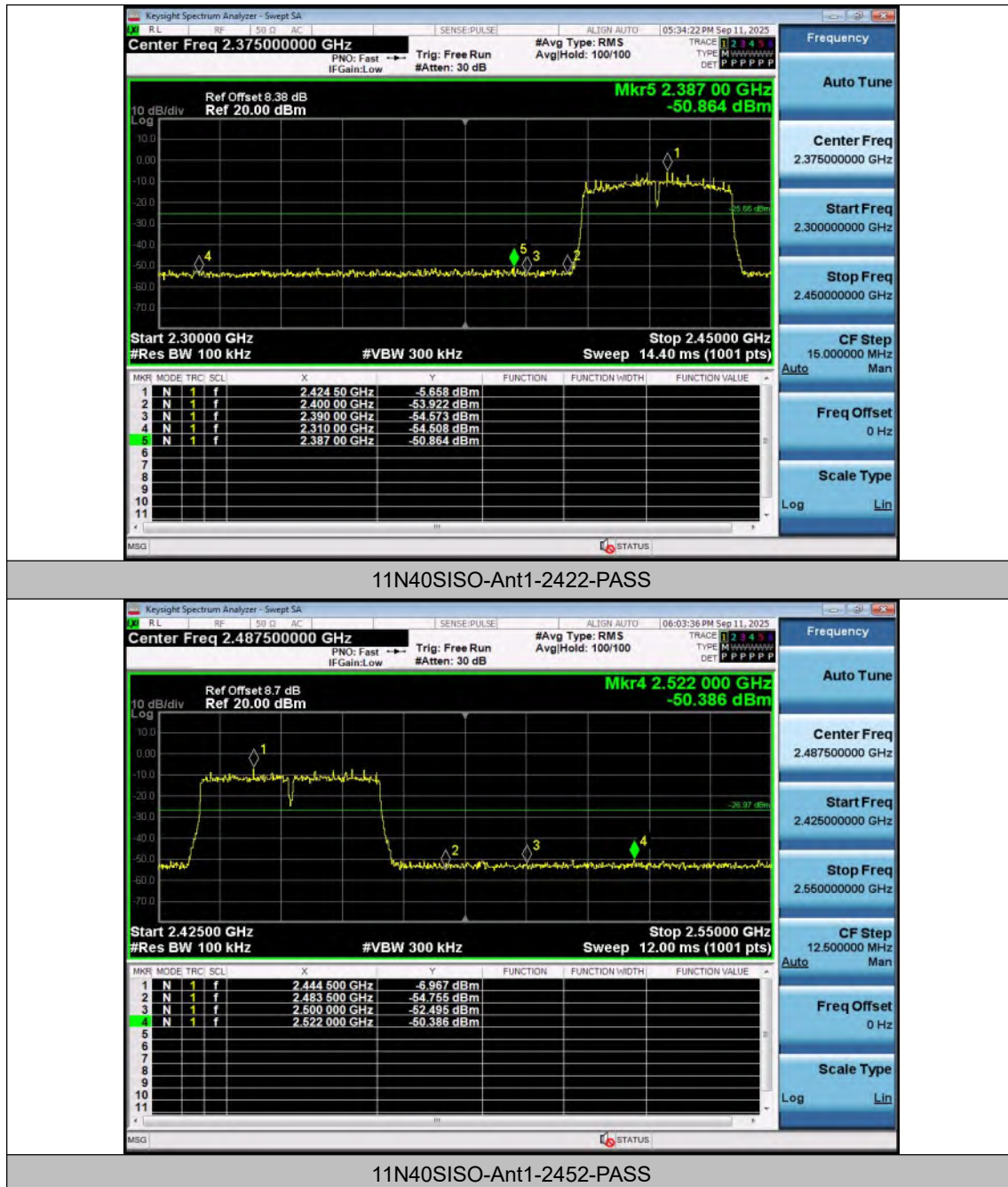




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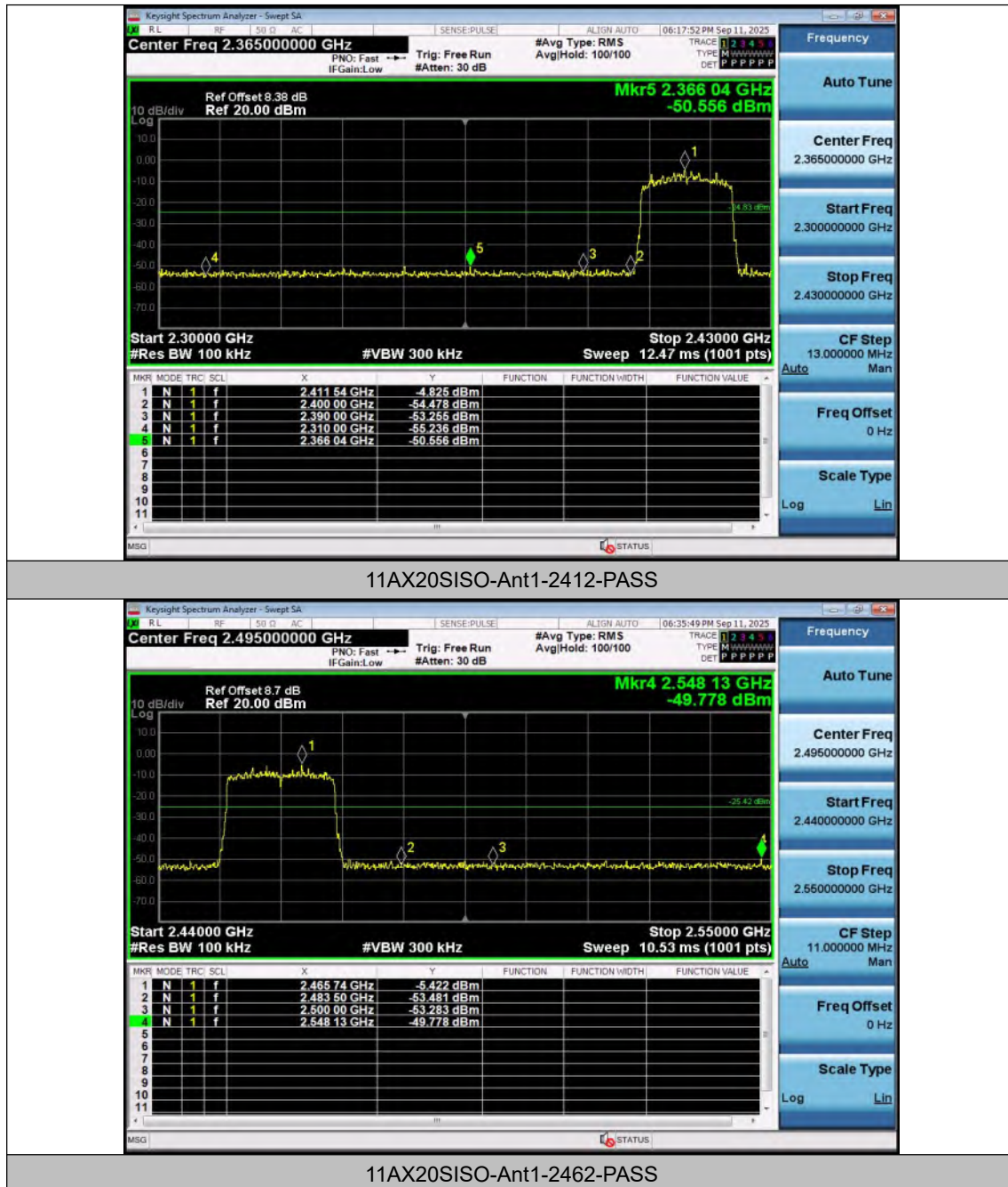




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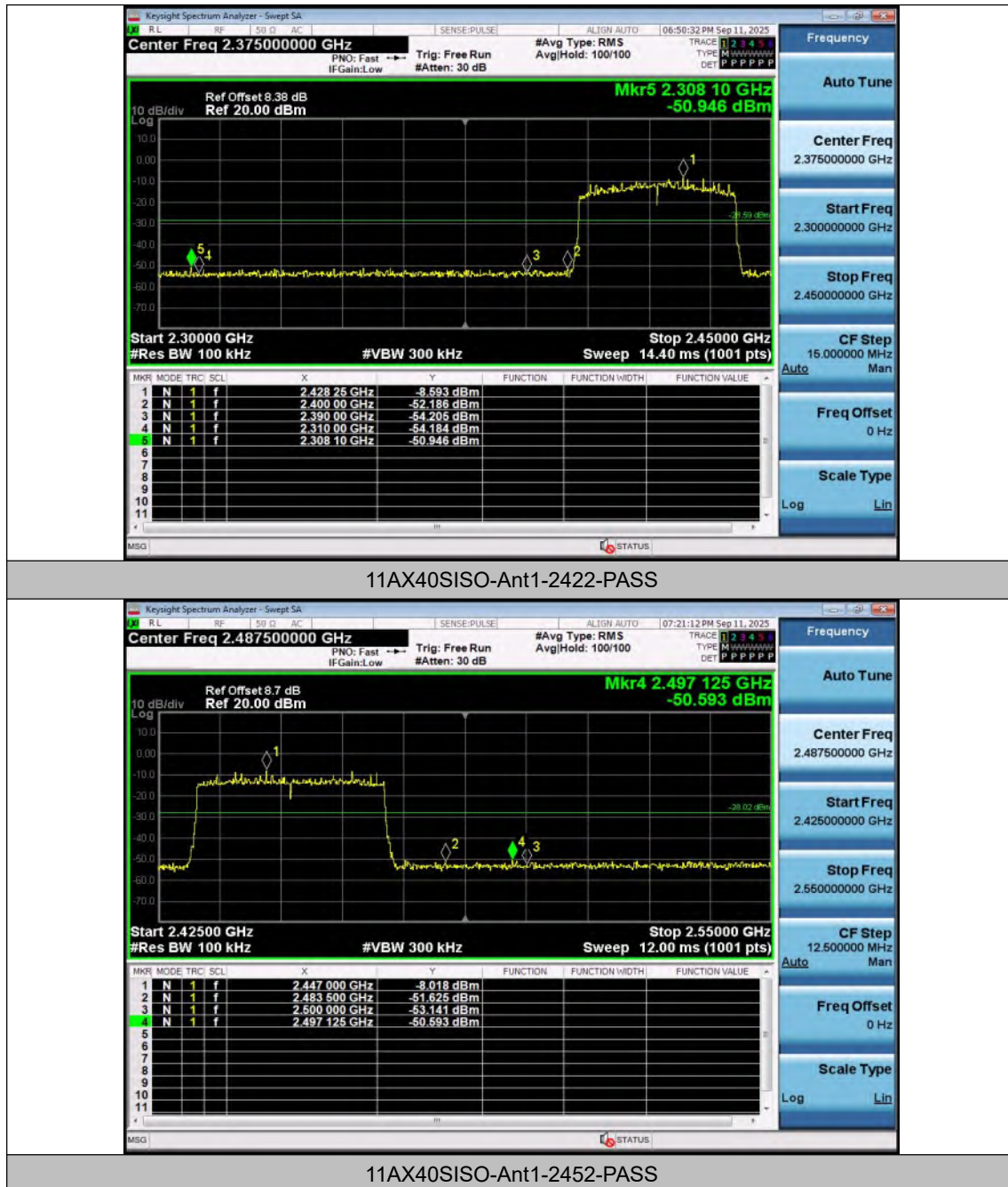




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Ant 2

Test Result

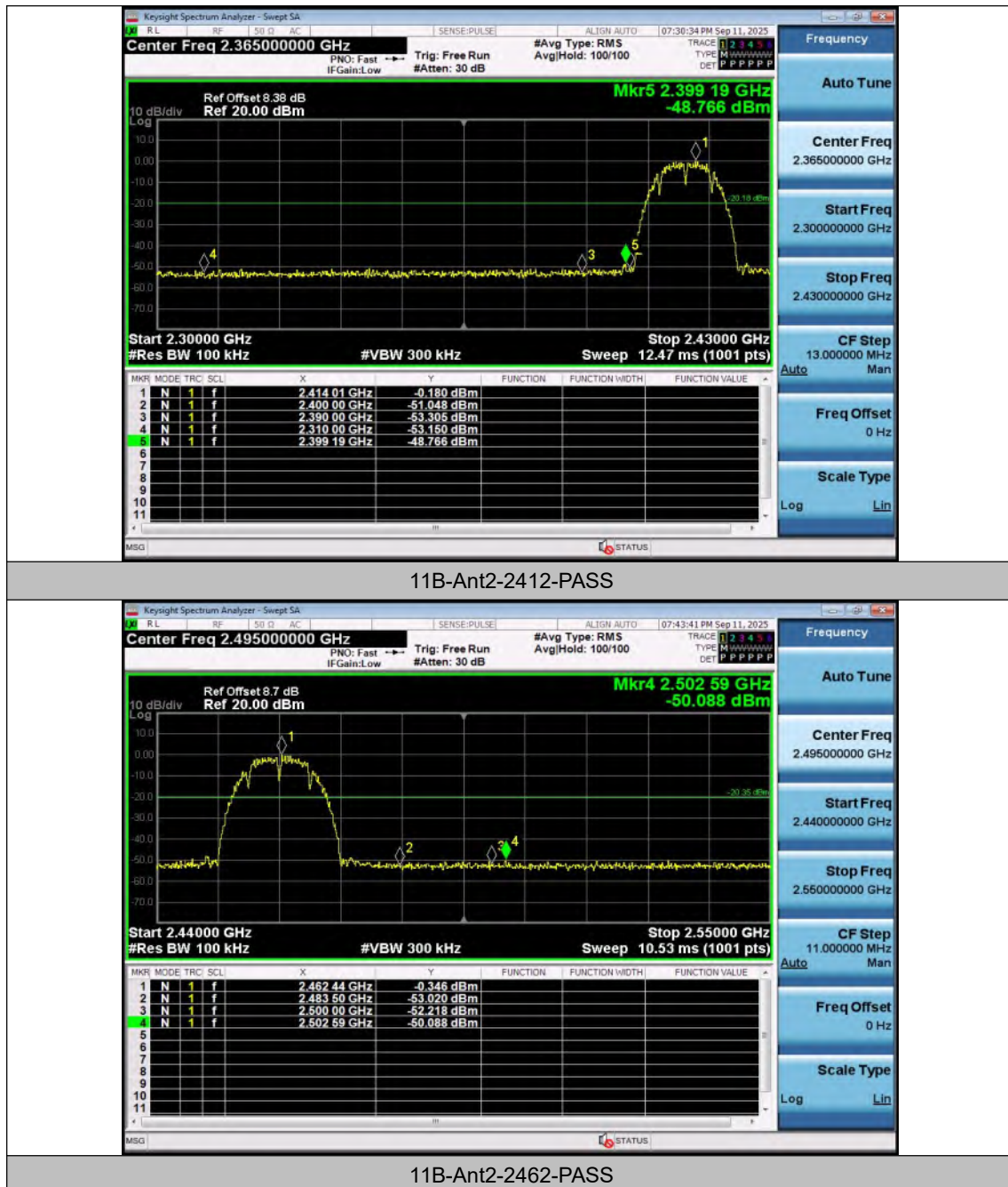
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	-0.18	-48.77	≤-20.18	PASS
11B	Ant2	High	2462	-0.35	-50.09	≤-20.35	PASS
11G	Ant2	Low	2412	-5.46	-50.43	≤-25.46	PASS
11G	Ant2	High	2462	-4.46	-49.02	≤-24.46	PASS
11N20SISO	Ant2	Low	2412	-5.21	-51.18	≤-25.21	PASS
11N20SISO	Ant2	High	2462	-6.14	-49.27	≤-26.14	PASS
11N40SISO	Ant2	Low	2422	-6.52	-50.17	≤-26.52	PASS
11N40SISO	Ant2	High	2452	-7.29	-50.46	≤-27.29	PASS
11AX20SISO	Ant2	Low	2412	-6.48	-51.14	≤-26.48	PASS
11AX20SISO	Ant2	High	2462	-5.92	-49.99	≤-25.92	PASS
11AX40SISO	Ant2	Low	2422	-7.83	-50.64	≤-27.83	PASS
11AX40SISO	Ant2	High	2452	-8.35	-50.12	≤-28.35	PASS



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Test Graphs

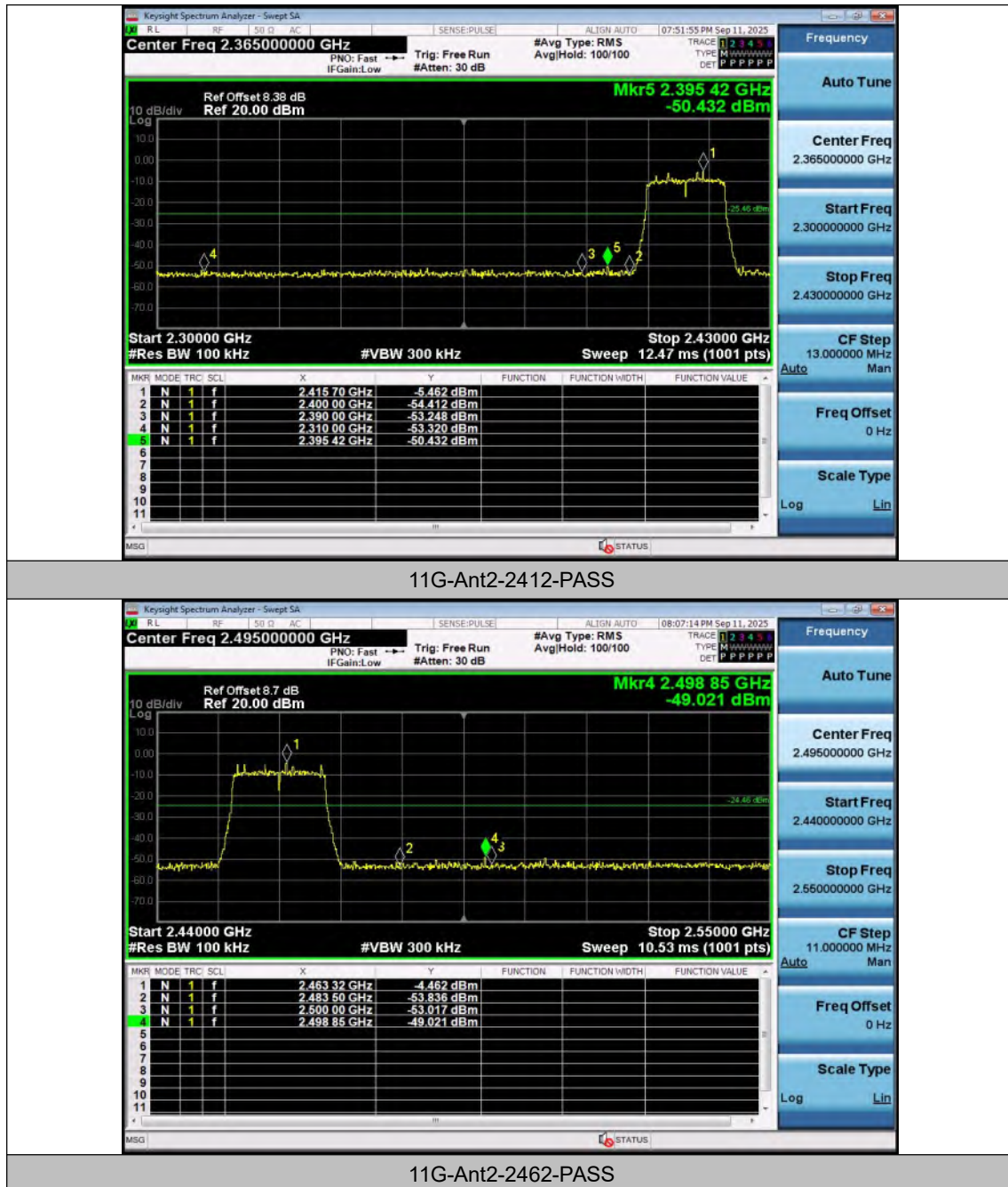




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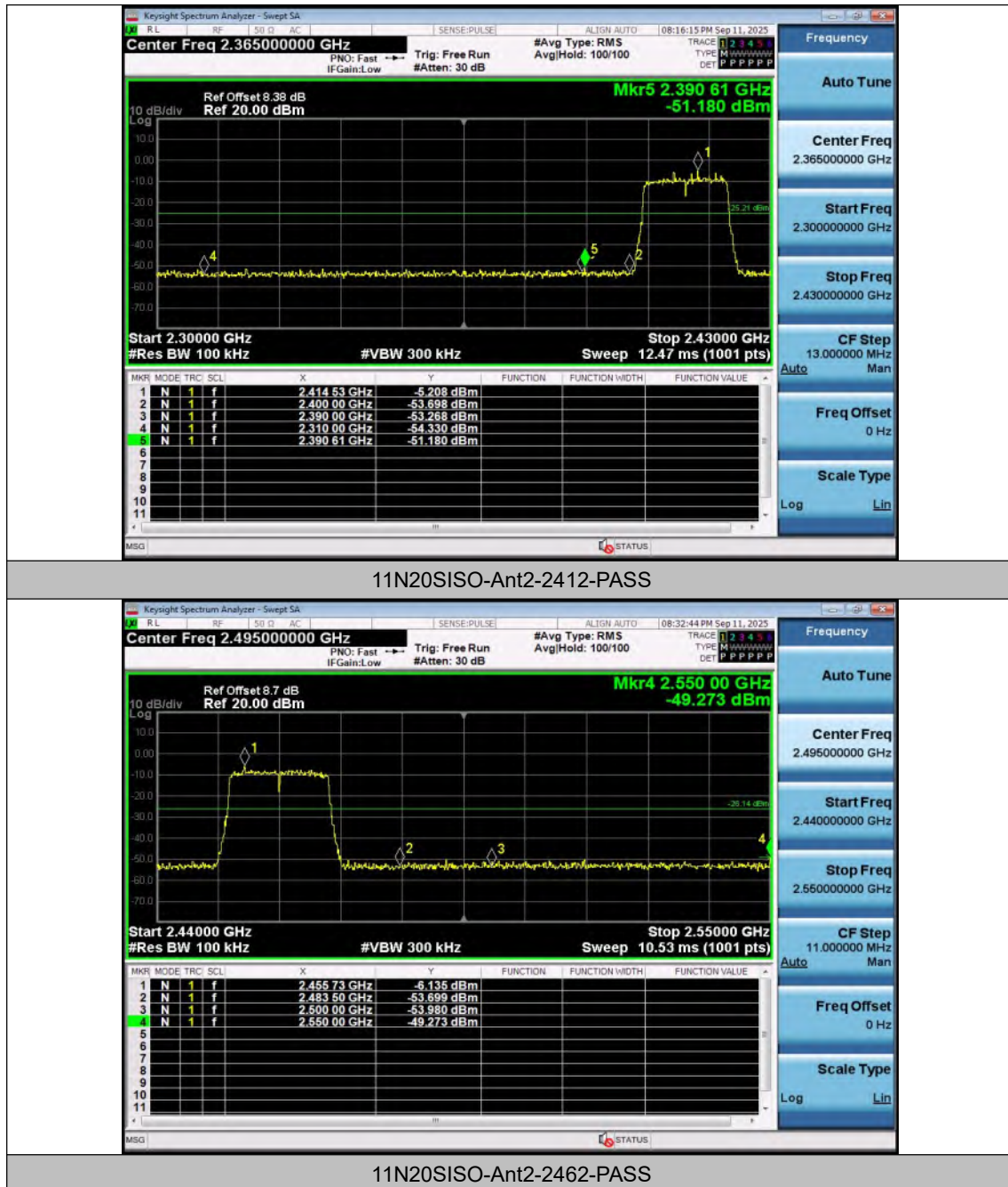




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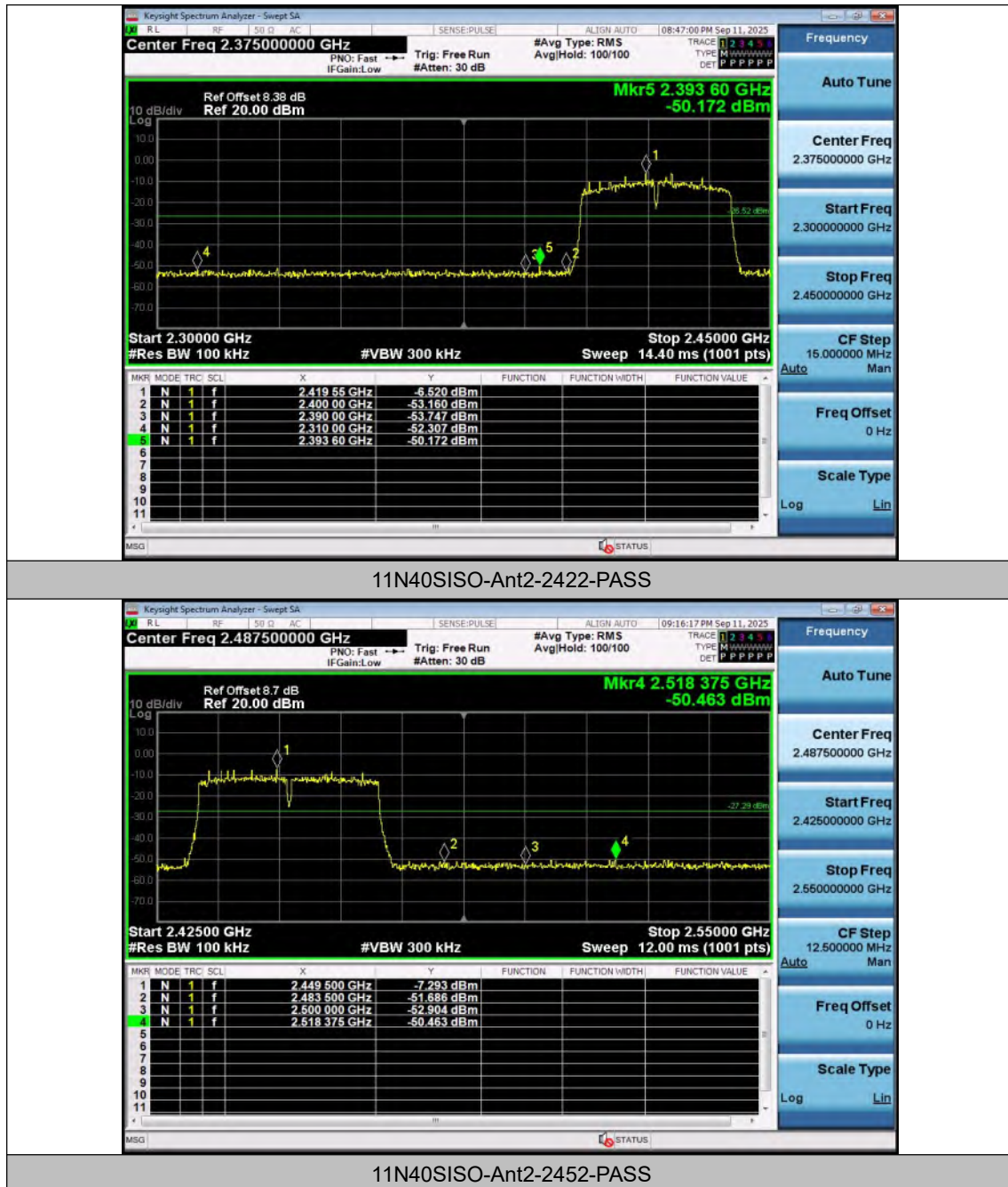




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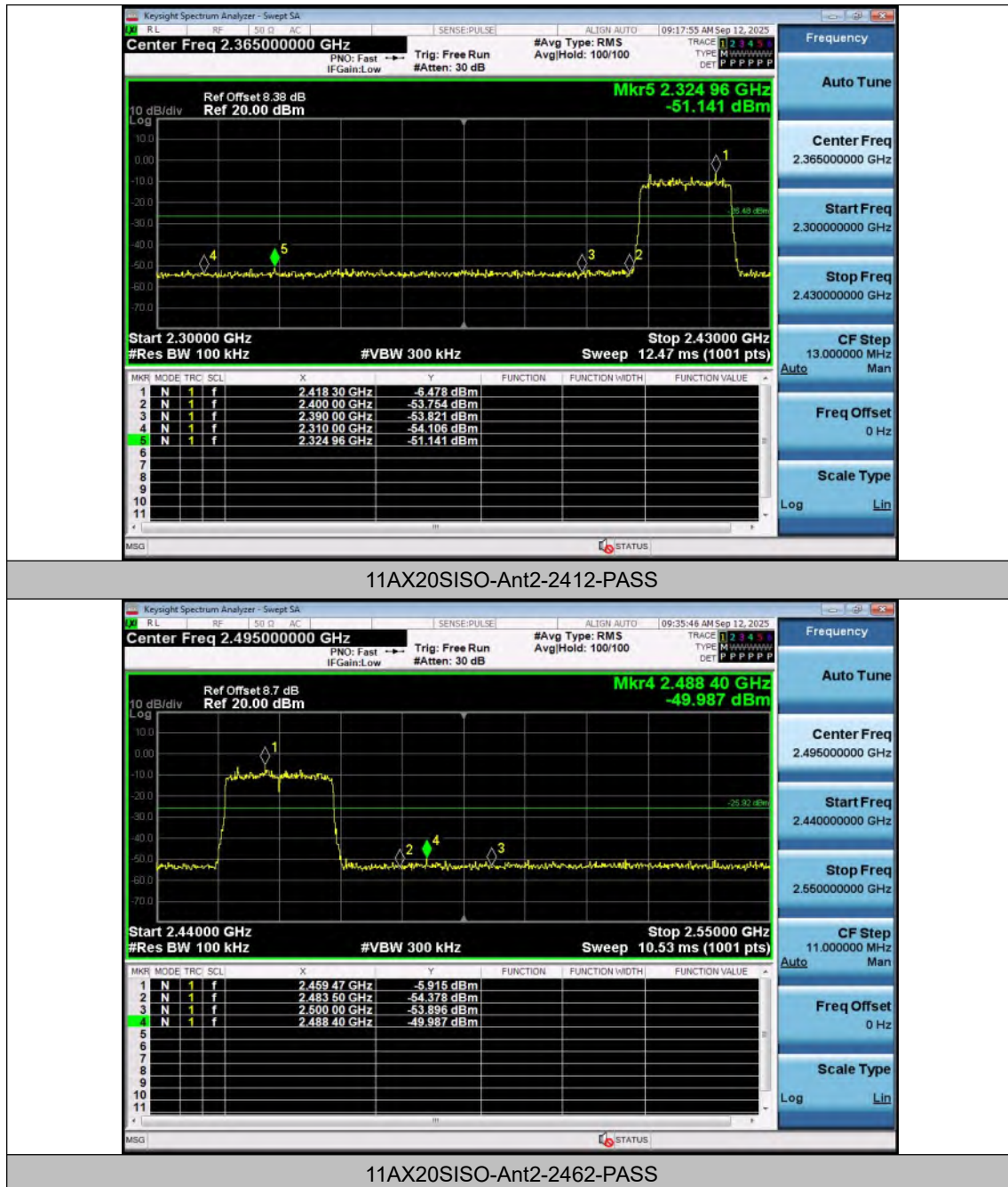




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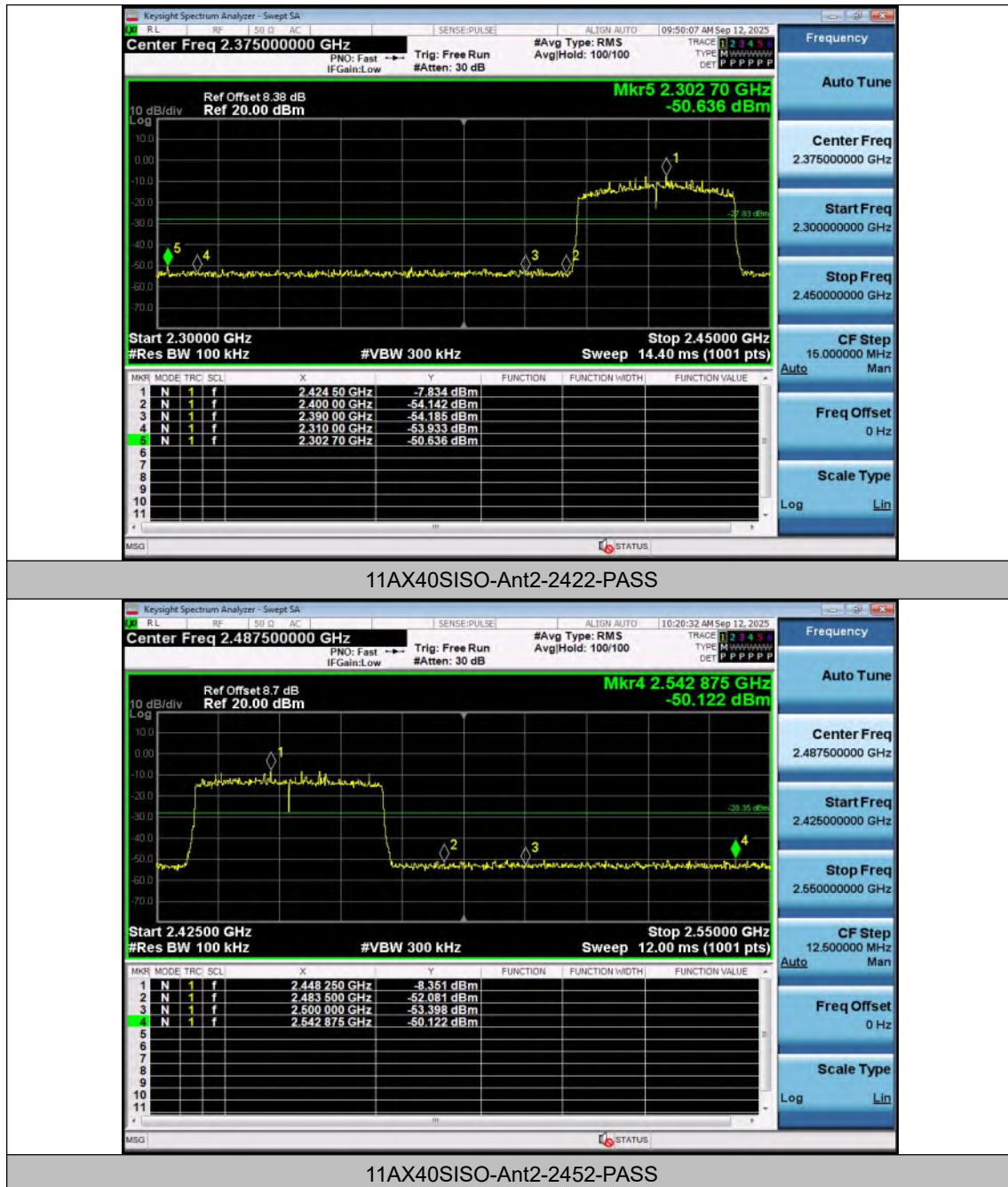




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Appendix E: Conducted Spurious Emission

Ant 1

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	1.12	1.12	---	PASS
11B	Ant1	2412	30~1000	1.12	-64.03	≤-18.88	PASS
11B	Ant1	2412	1000~25000	1.12	-44.46	≤-18.88	PASS
11B	Ant1	2437	0~Reference	-0.38	-0.38	---	PASS
11B	Ant1	2437	30~1000	-0.38	-62.98	≤-20.38	PASS
11B	Ant1	2437	1000~25000	-0.38	-45.4	≤-20.38	PASS
11B	Ant1	2462	0~Reference	0.13	0.13	---	PASS
11B	Ant1	2462	30~1000	0.13	-64.51	≤-19.87	PASS
11B	Ant1	2462	1000~25000	0.13	-44.46	≤-19.87	PASS
11G	Ant1	2412	0~Reference	-4.64	-4.64	---	PASS
11G	Ant1	2412	30~1000	-4.64	-62.62	≤-24.64	PASS
11G	Ant1	2412	1000~25000	-4.64	-44.98	≤-24.64	PASS
11G	Ant1	2437	0~Reference	-4.51	-4.51	---	PASS
11G	Ant1	2437	30~1000	-4.51	-63.75	≤-24.51	PASS
11G	Ant1	2437	1000~25000	-4.51	-44.32	≤-24.51	PASS
11G	Ant1	2462	0~Reference	-4.42	-4.42	---	PASS
11G	Ant1	2462	30~1000	-4.42	-63.26	≤-24.42	PASS
11G	Ant1	2462	1000~25000	-4.42	-45.23	≤-24.42	PASS
11N20SISO	Ant1	2412	0~Reference	-5.65	-5.65	---	PASS
11N20SISO	Ant1	2412	30~1000	-5.65	-63.79	≤-25.65	PASS
11N20SISO	Ant1	2412	1000~25000	-5.65	-45.35	≤-25.65	PASS
11N20SISO	Ant1	2437	0~Reference	-7.01	-7.01	---	PASS
11N20SISO	Ant1	2437	30~1000	-7.01	-64.01	≤-27.01	PASS
11N20SISO	Ant1	2437	1000~25000	-7.01	-45.23	≤-27.01	PASS
11N20SISO	Ant1	2462	0~Reference	-4.41	-4.41	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.41	-64.34	≤-24.41	PASS
11N20SISO	Ant1	2462	1000~25000	-4.41	-44.92	≤-24.41	PASS
11N40SISO	Ant1	2422	0~Reference	-6.21	-6.21	---	PASS
11N40SISO	Ant1	2422	30~1000	-6.21	-63.43	≤-26.21	PASS
11N40SISO	Ant1	2422	1000~25000	-6.21	-45.38	≤-26.21	PASS
11N40SISO	Ant1	2437	0~Reference	-7.69	-7.69	---	PASS
11N40SISO	Ant1	2437	30~1000	-7.69	-63.54	≤-27.69	PASS
11N40SISO	Ant1	2437	1000~25000	-7.69	-45.1	≤-27.69	PASS



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11N40SISO	Ant1	2452	0~Reference	-7.23	-7.23	---	PASS
11N40SISO	Ant1	2452	30~1000	-7.23	-63.75	≤ -27.23	PASS
11N40SISO	Ant1	2452	1000~25000	-7.23	-45.07	≤ -27.23	PASS
11AX20SISO	Ant1	2412	0~Reference	-5.00	-5.00	---	PASS
11AX20SISO	Ant1	2412	30~1000	-5.00	-62.42	≤ -25	PASS
11AX20SISO	Ant1	2412	1000~25000	-5.00	-44.29	≤ -25	PASS
11AX20SISO	Ant1	2437	0~Reference	-4.47	-4.47	---	PASS
11AX20SISO	Ant1	2437	30~1000	-4.47	-64.09	≤ -24.47	PASS
11AX20SISO	Ant1	2437	1000~25000	-4.47	-44.9	≤ -24.47	PASS
11AX20SISO	Ant1	2462	0~Reference	-5.26	-5.26	---	PASS
11AX20SISO	Ant1	2462	30~1000	-5.26	-63.71	≤ -25.26	PASS
11AX20SISO	Ant1	2462	1000~25000	-5.26	-45.11	≤ -25.26	PASS
11AX40SISO	Ant1	2422	0~Reference	-8.24	-8.24	---	PASS
11AX40SISO	Ant1	2422	30~1000	-8.24	-63.55	≤ -28.24	PASS
11AX40SISO	Ant1	2422	1000~25000	-8.24	-44.47	≤ -28.24	PASS
11AX40SISO	Ant1	2437	0~Reference	-8.12	-8.12	---	PASS
11AX40SISO	Ant1	2437	30~1000	-8.12	-62.9	≤ -28.12	PASS
11AX40SISO	Ant1	2437	1000~25000	-8.12	-44.98	≤ -28.12	PASS
11AX40SISO	Ant1	2452	0~Reference	-8.87	-8.87	---	PASS
11AX40SISO	Ant1	2452	30~1000	-8.87	-64.45	≤ -28.87	PASS
11AX40SISO	Ant1	2452	1000~25000	-8.87	-45.47	≤ -28.87	PASS

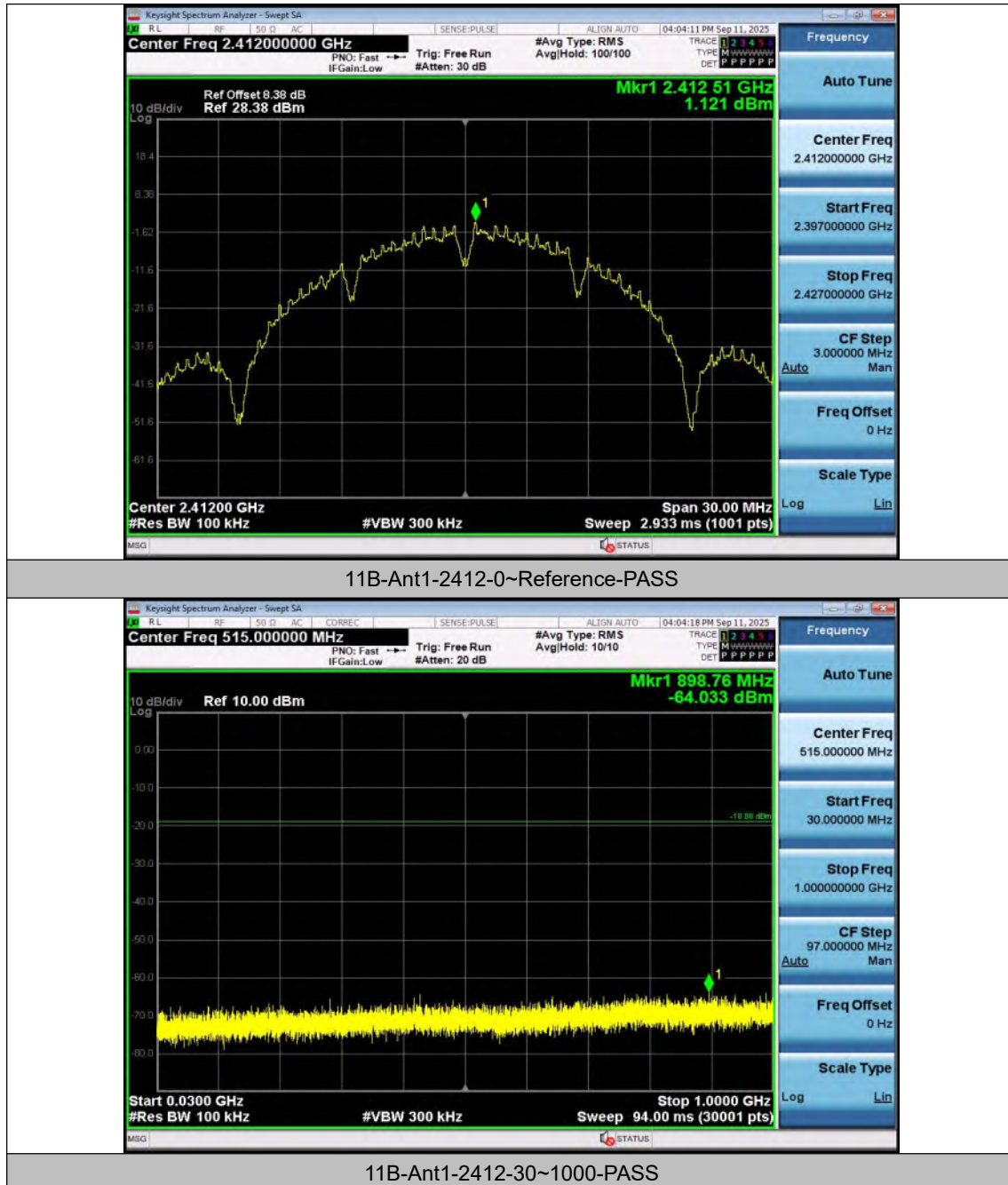
Remark: The test results including the cable loss + power divider loss.



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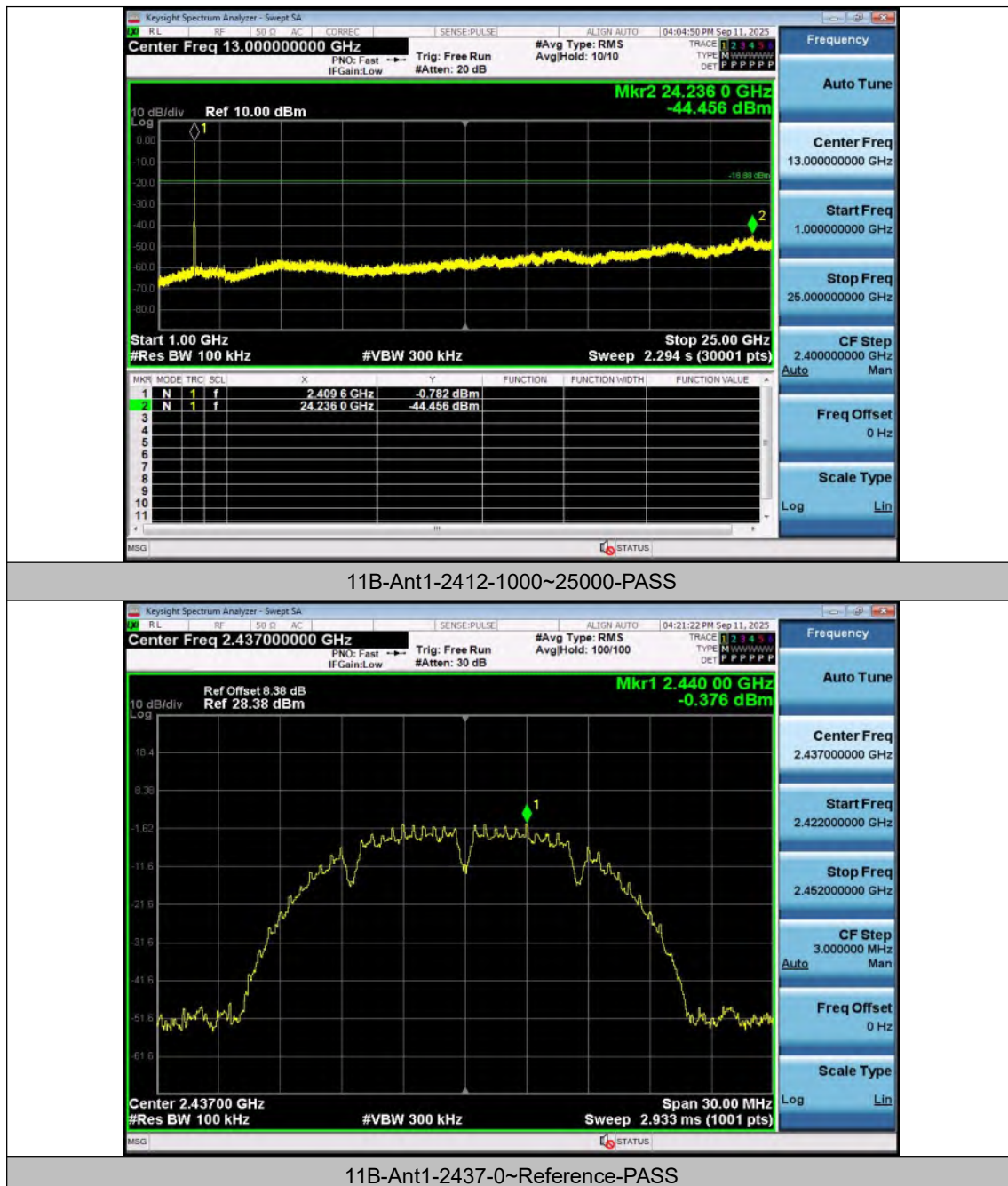
Test Graphs





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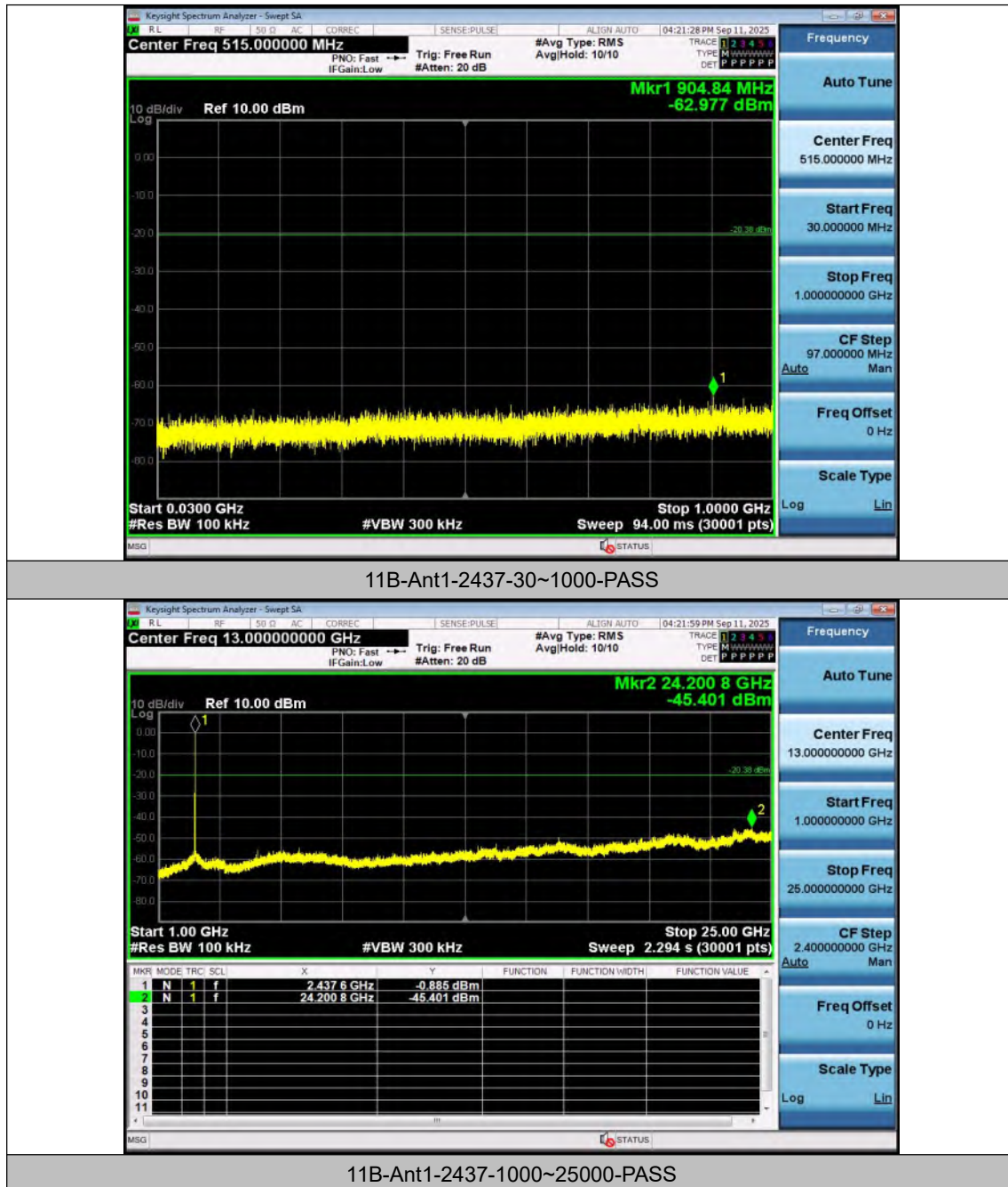
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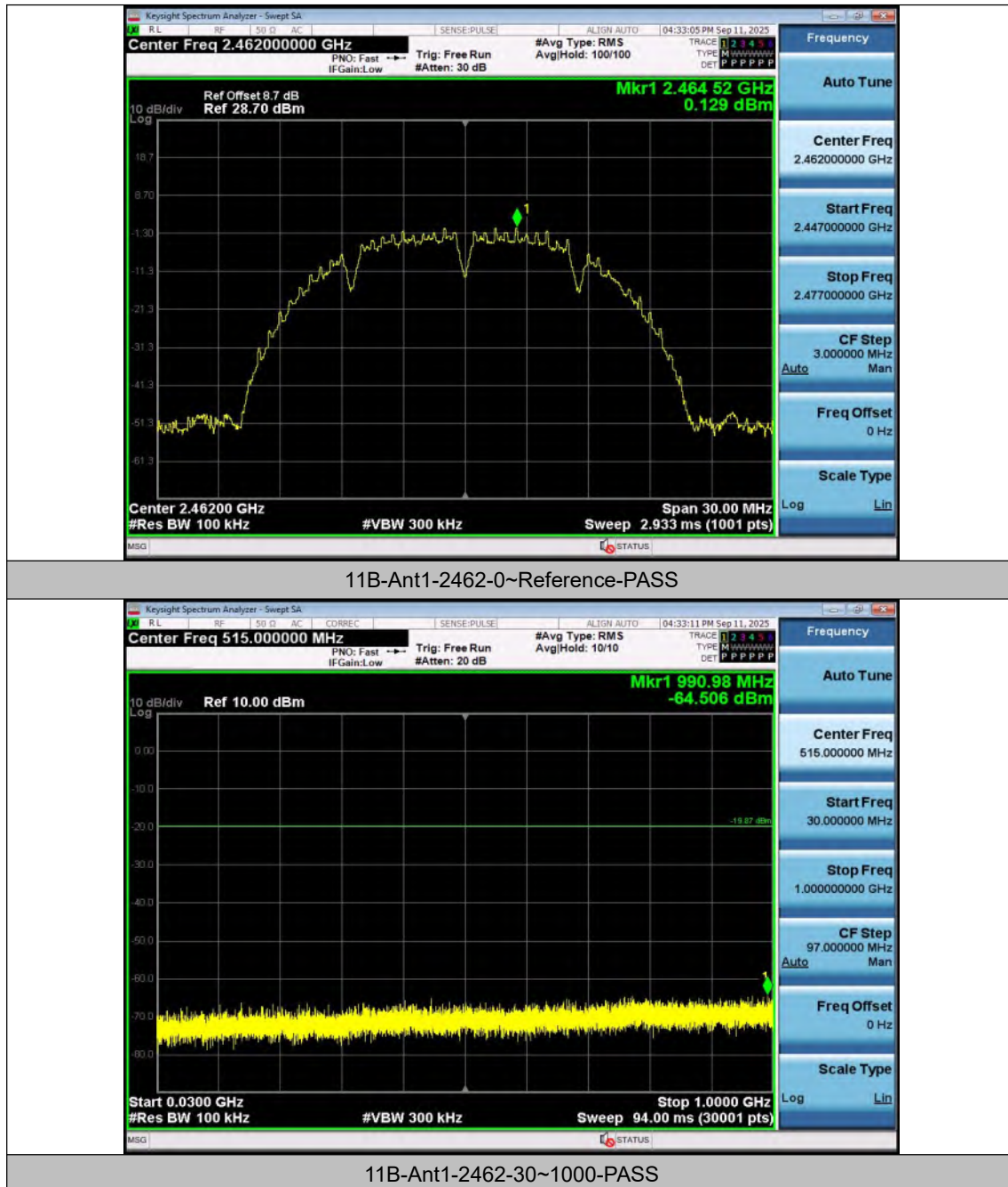




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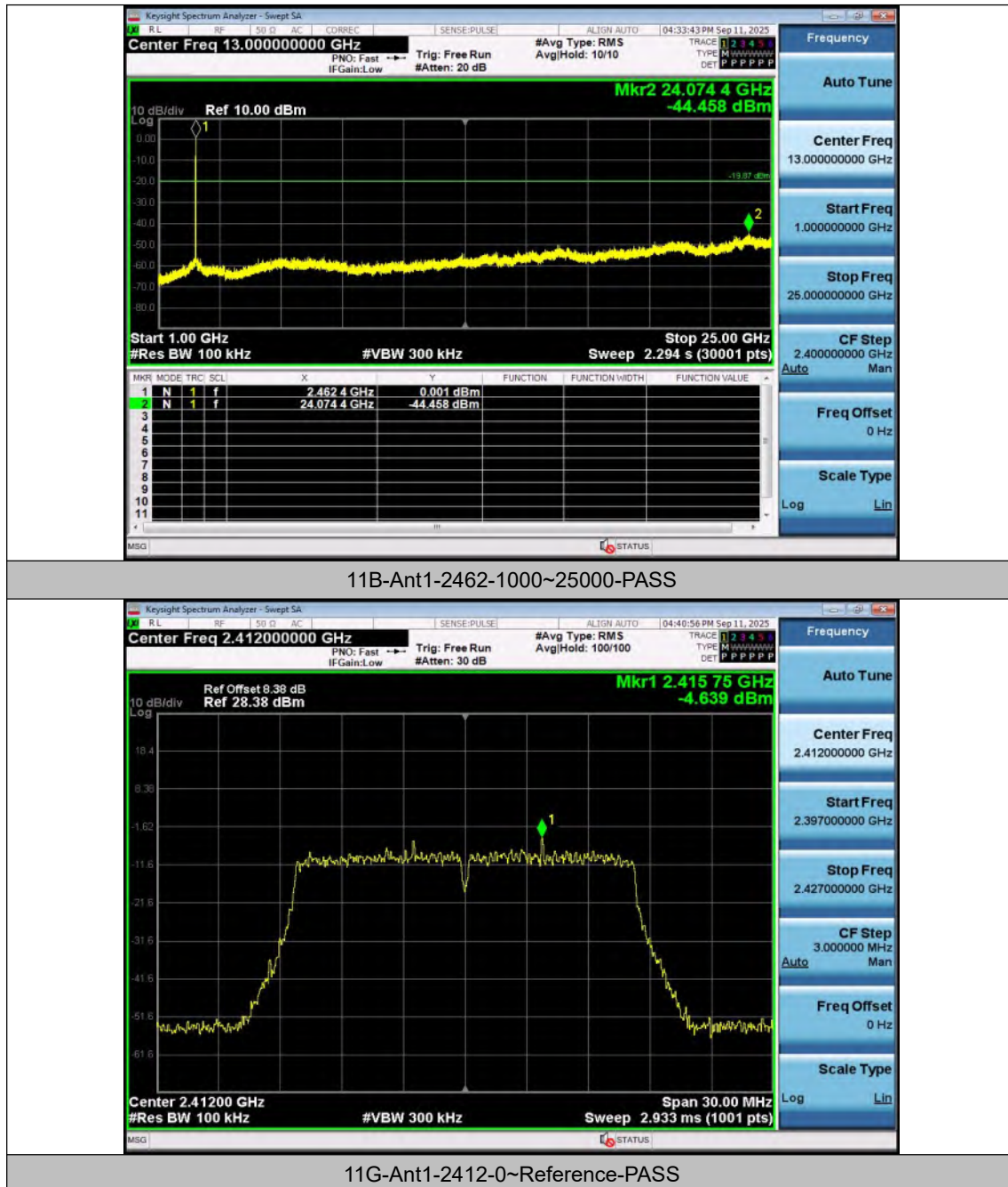




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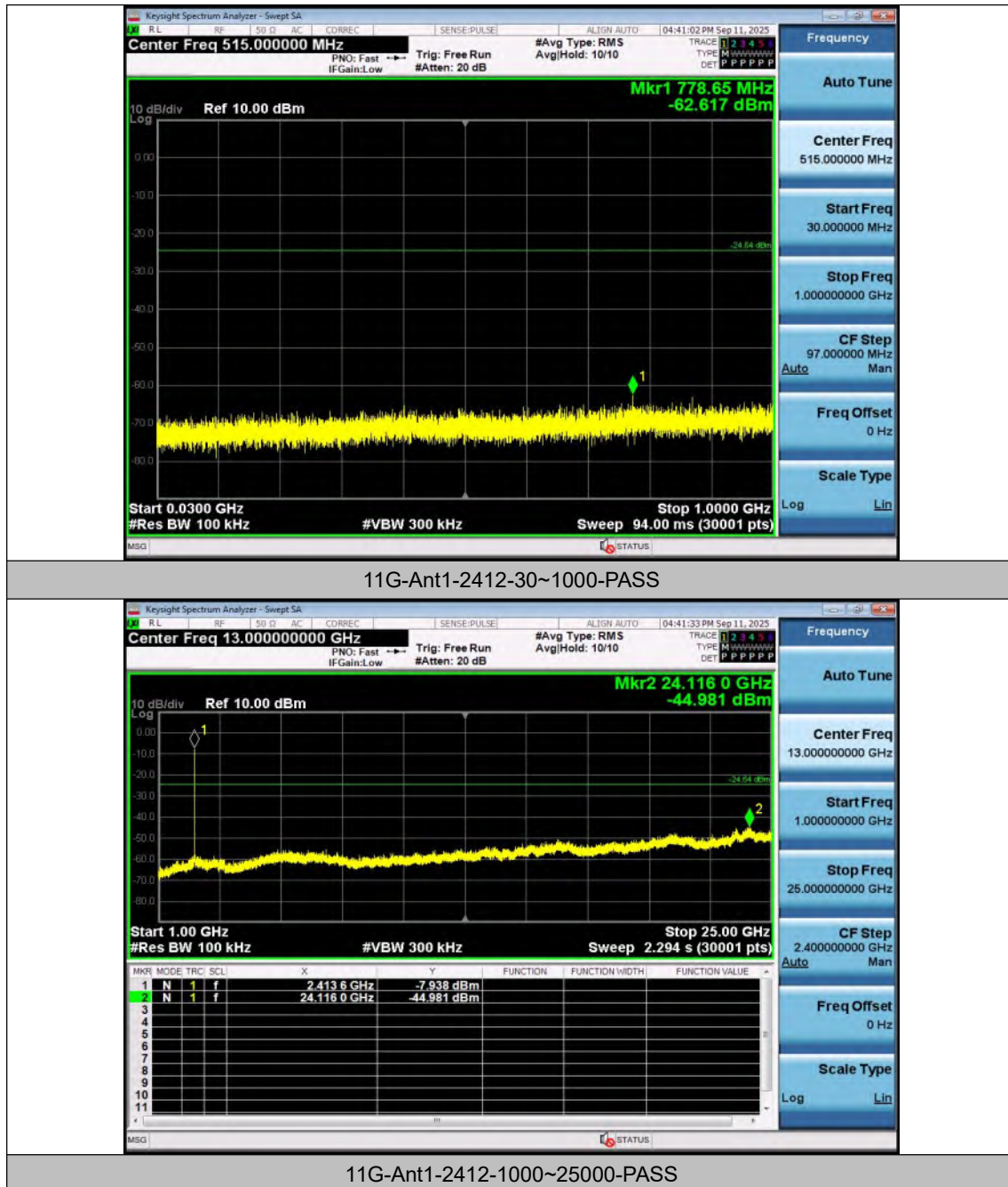
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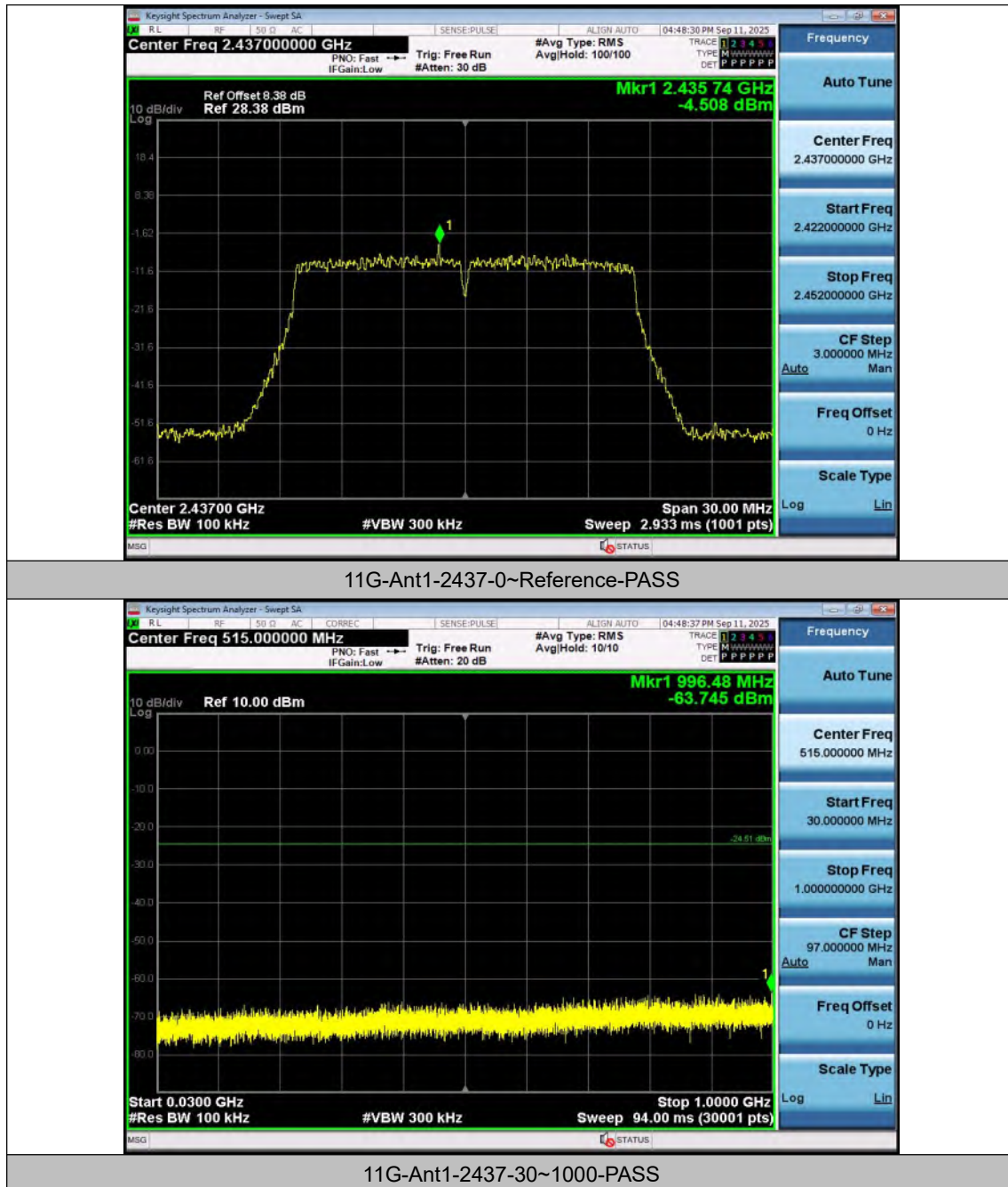
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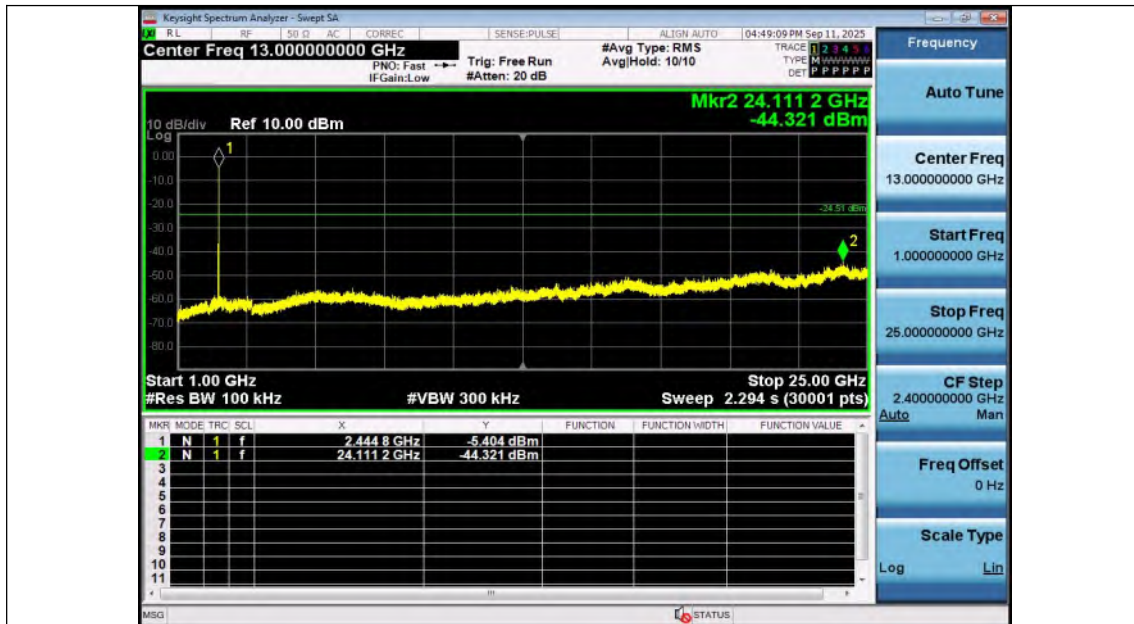




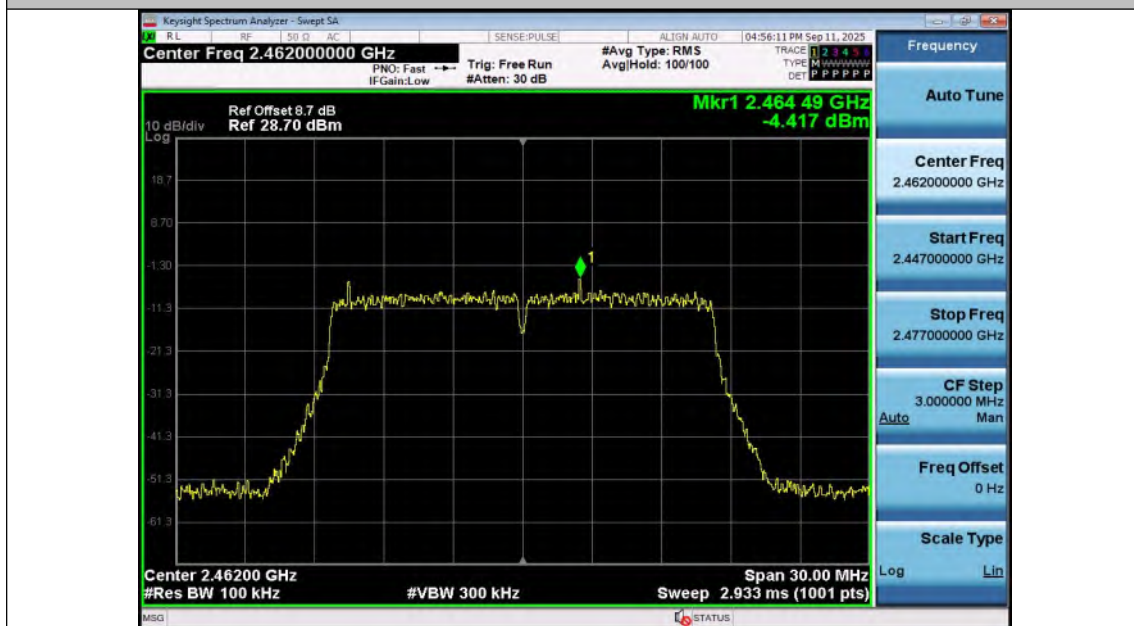
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11G-Ant1-2437-1000~25000-PASS

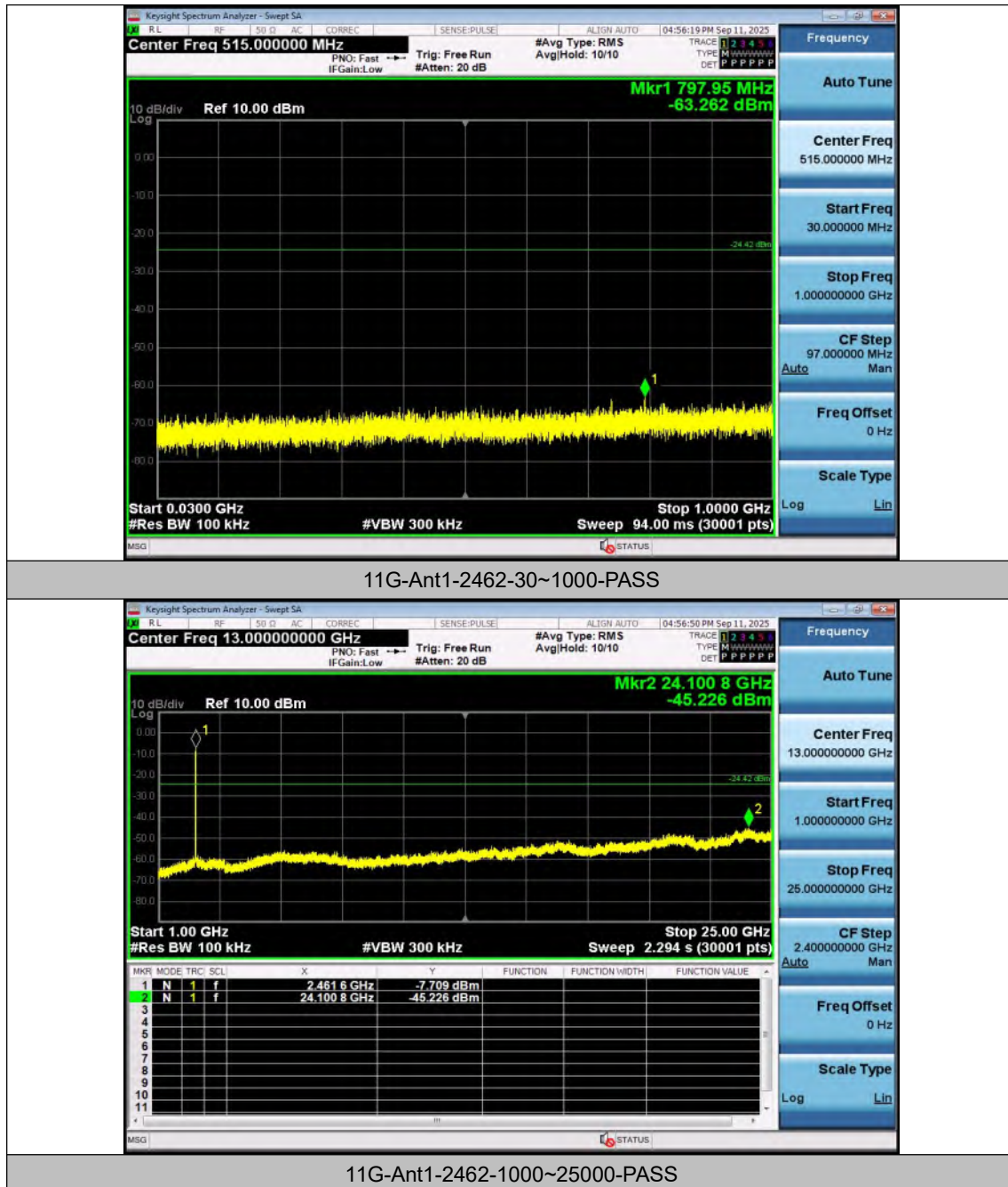


11G-Ant1-2462-0~Reference-PASS



FCCID:2A22E-R-W62508

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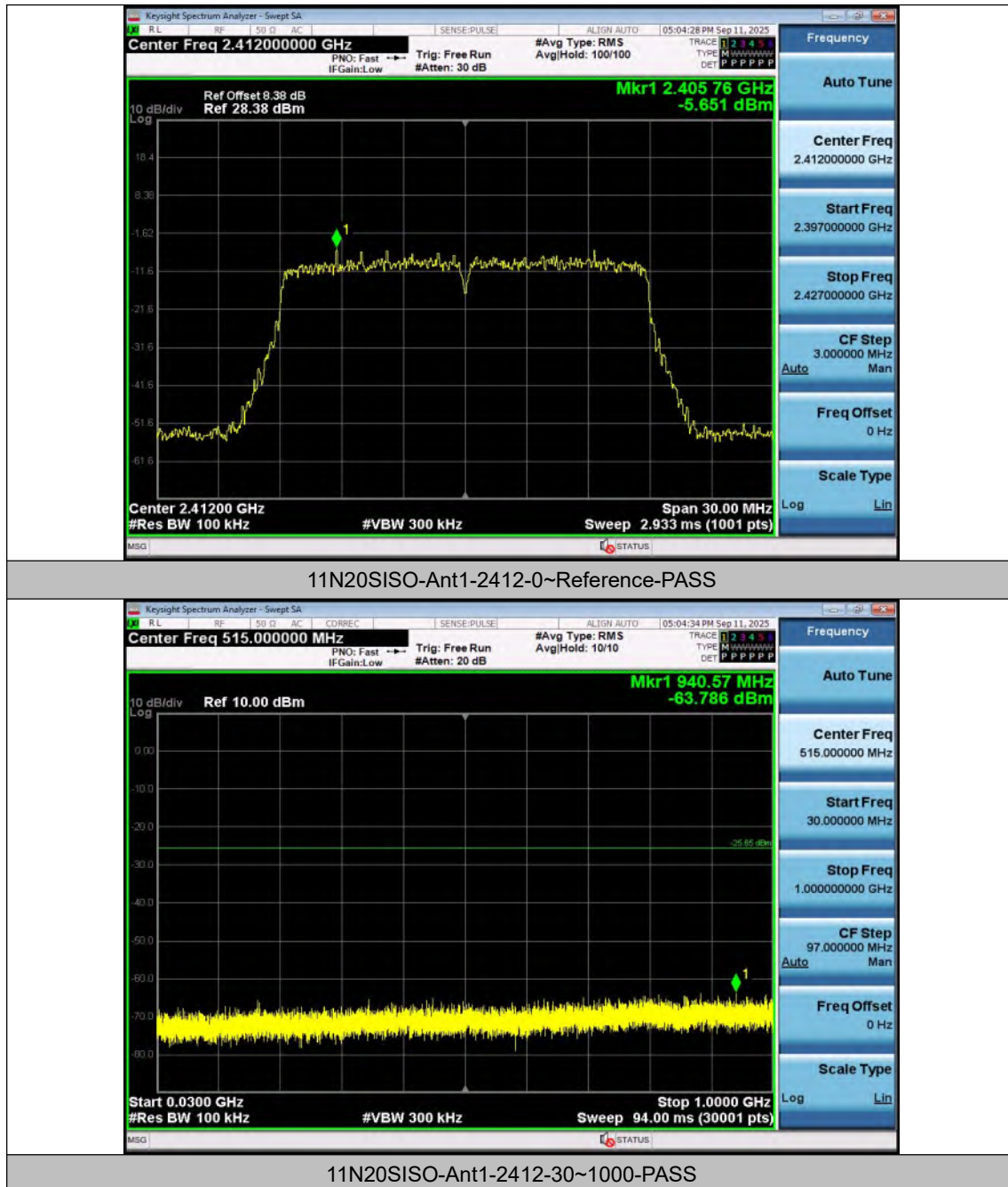




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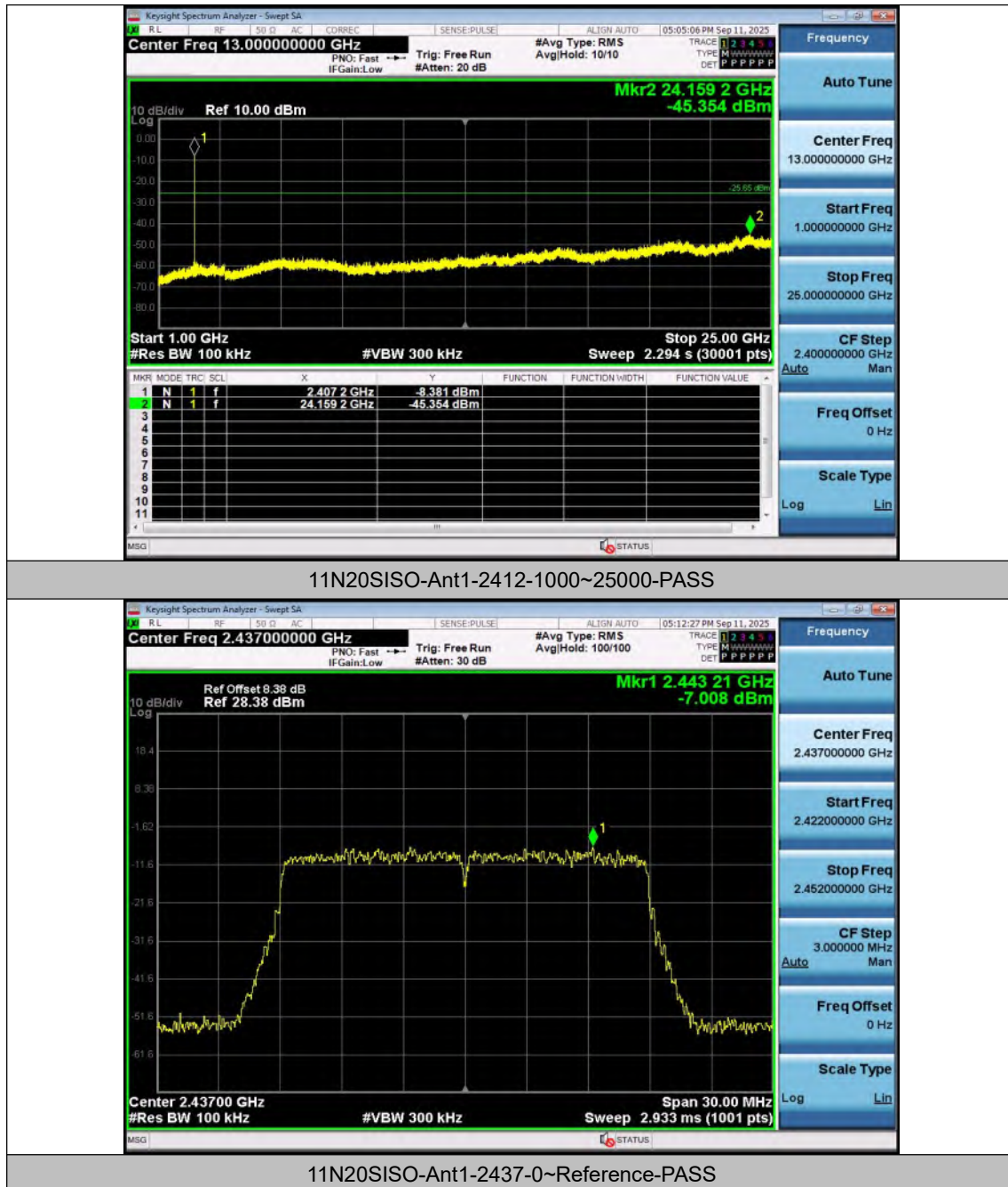




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FCCID:2A22E-R-W62508

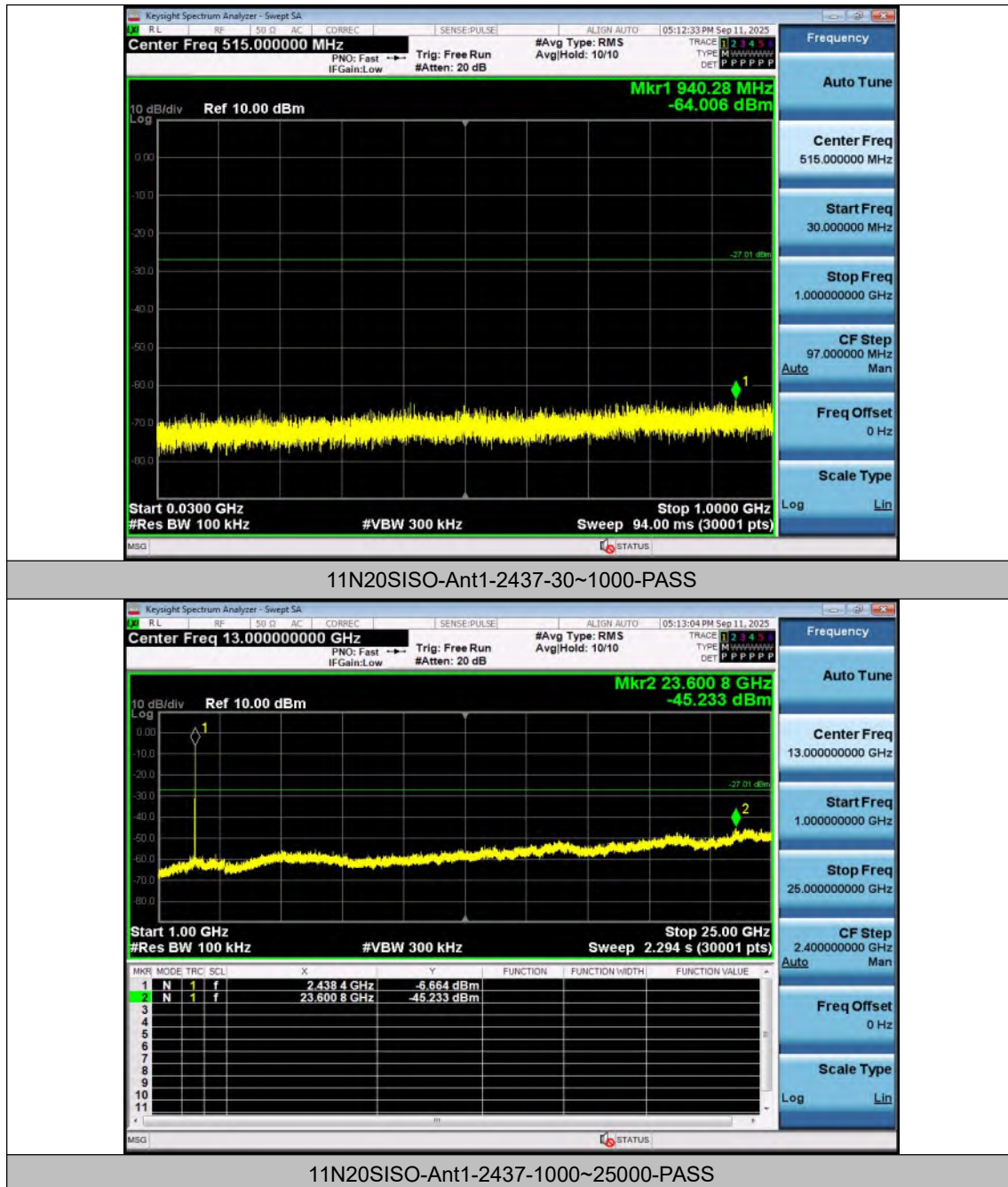
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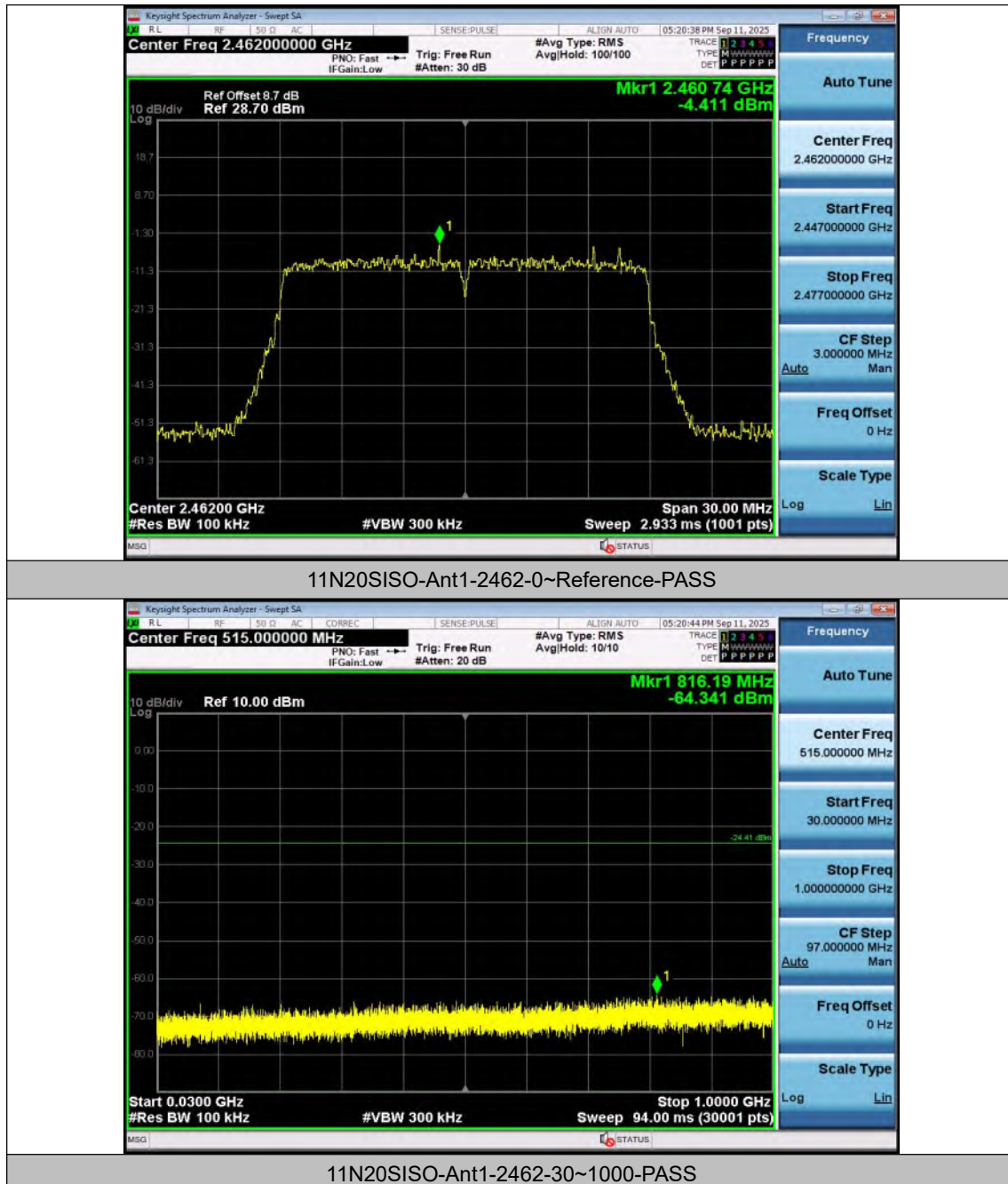




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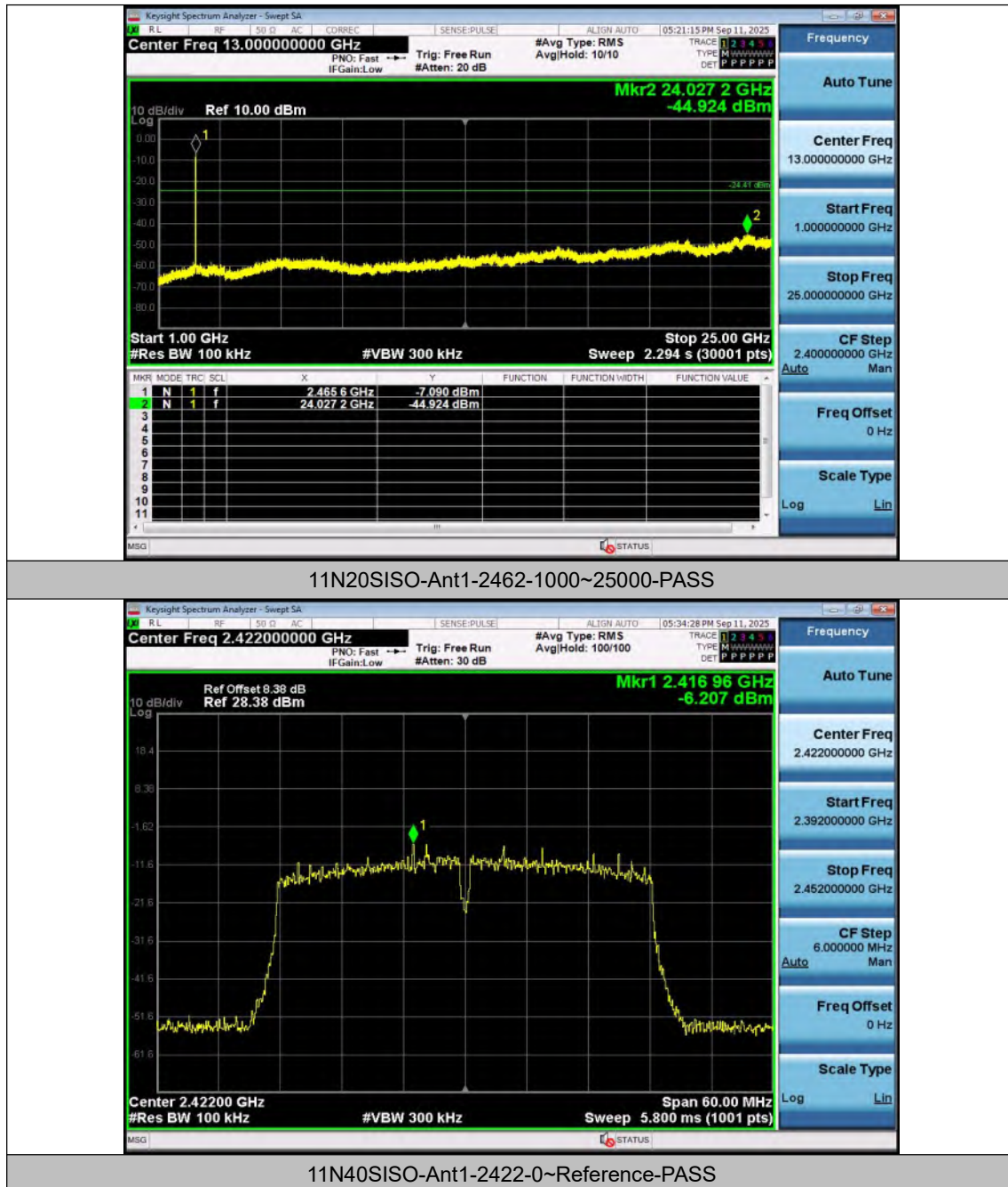




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Community, Fenghuang Street, Guangming District, Shenzhen, China

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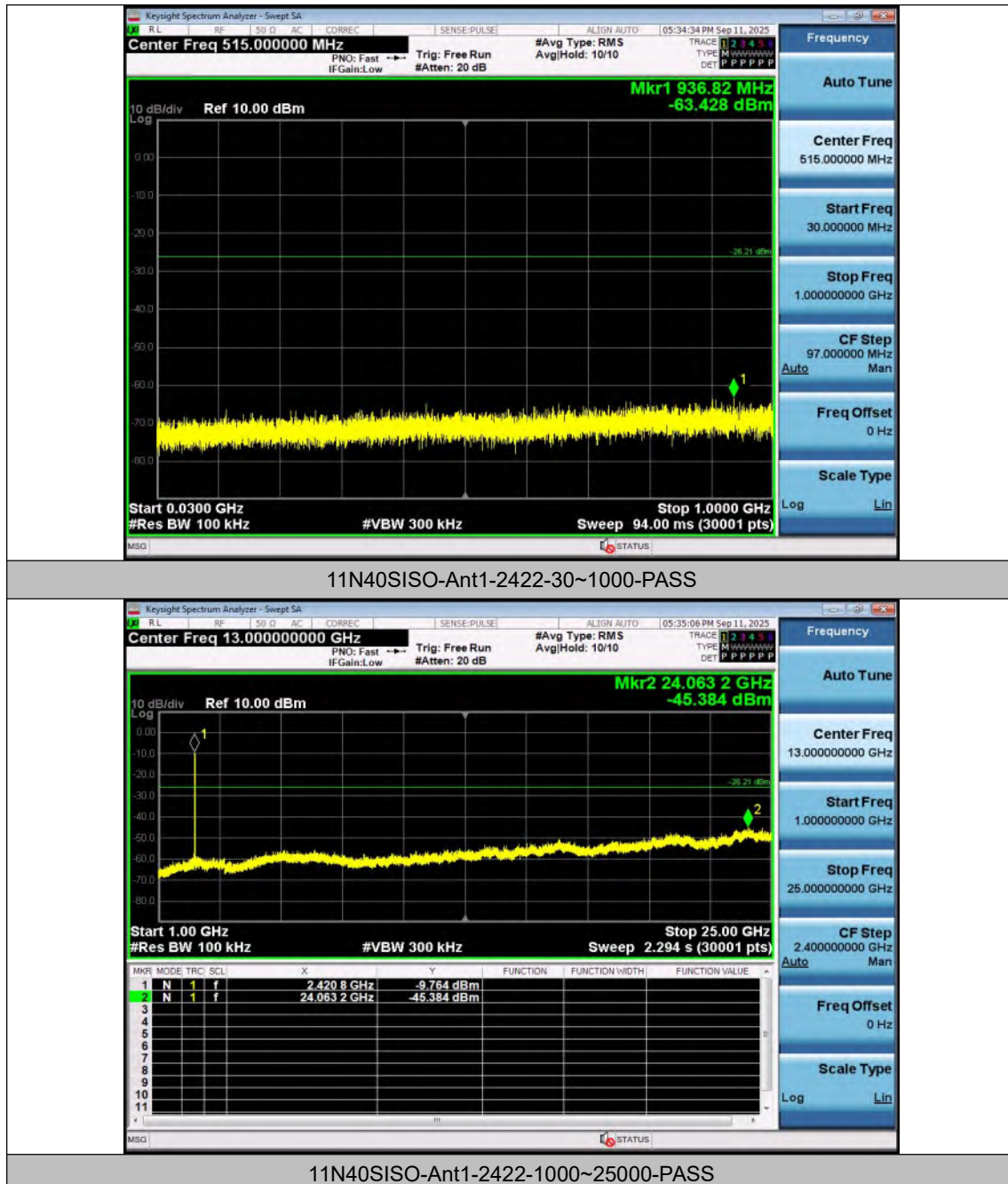
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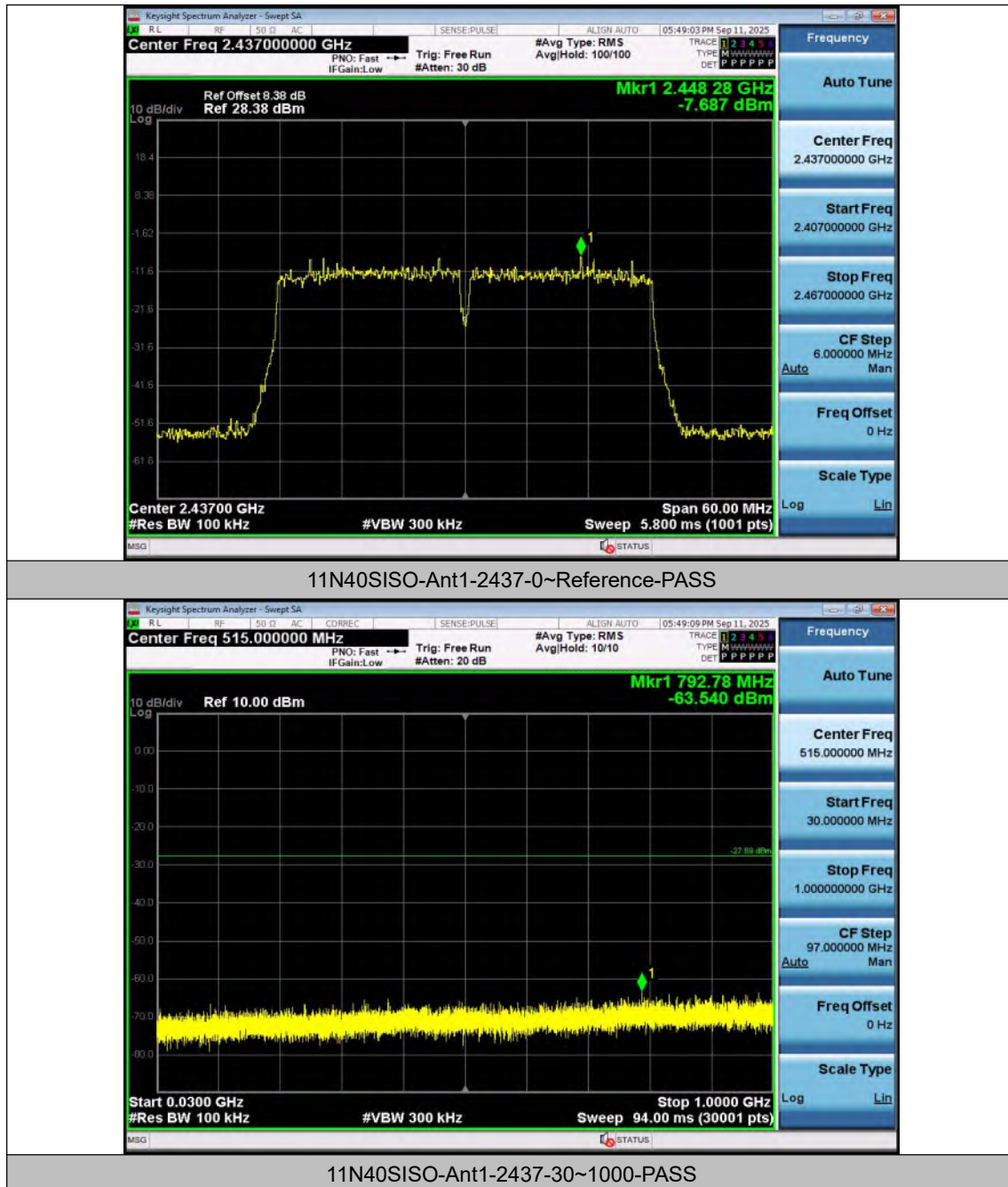




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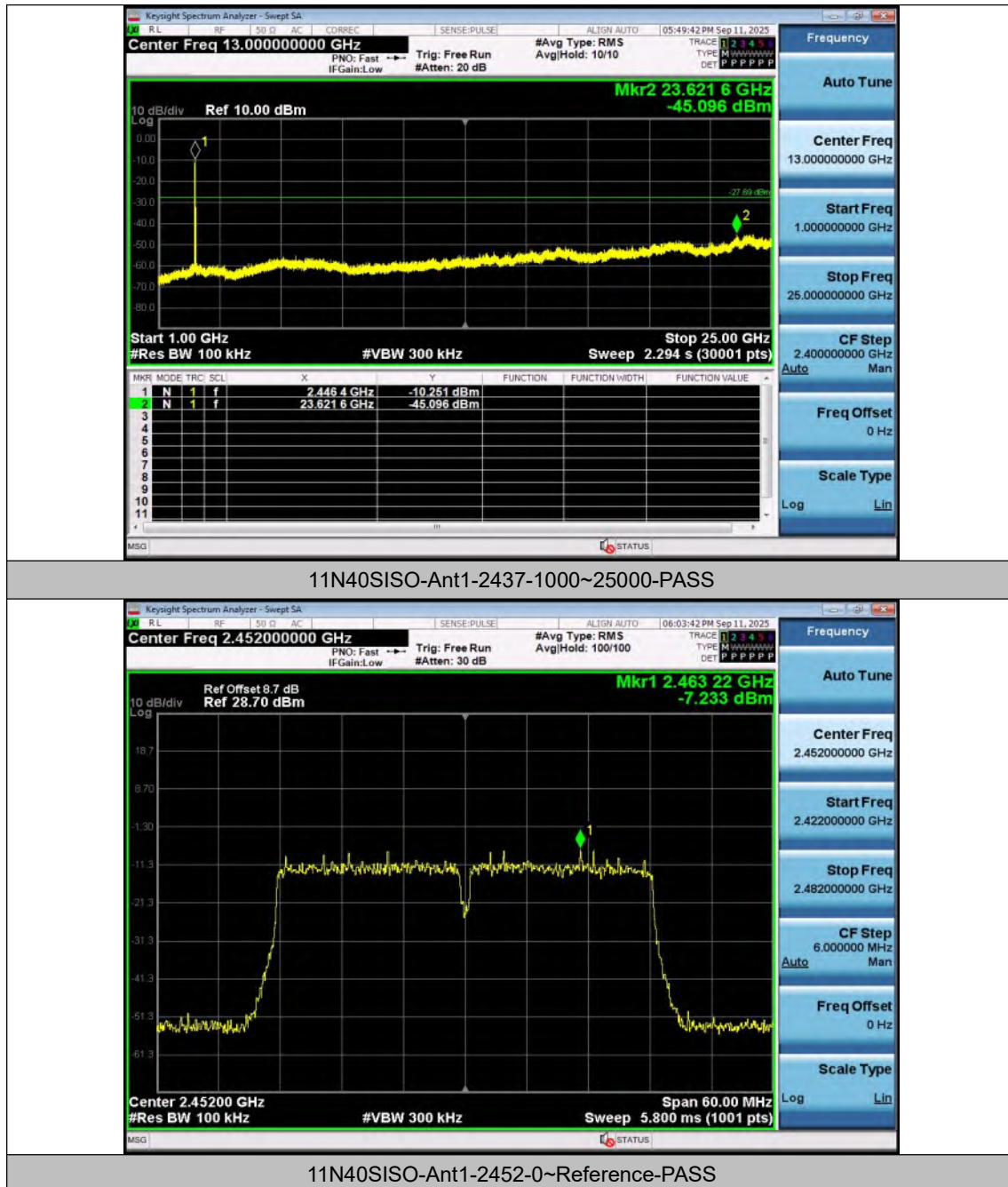




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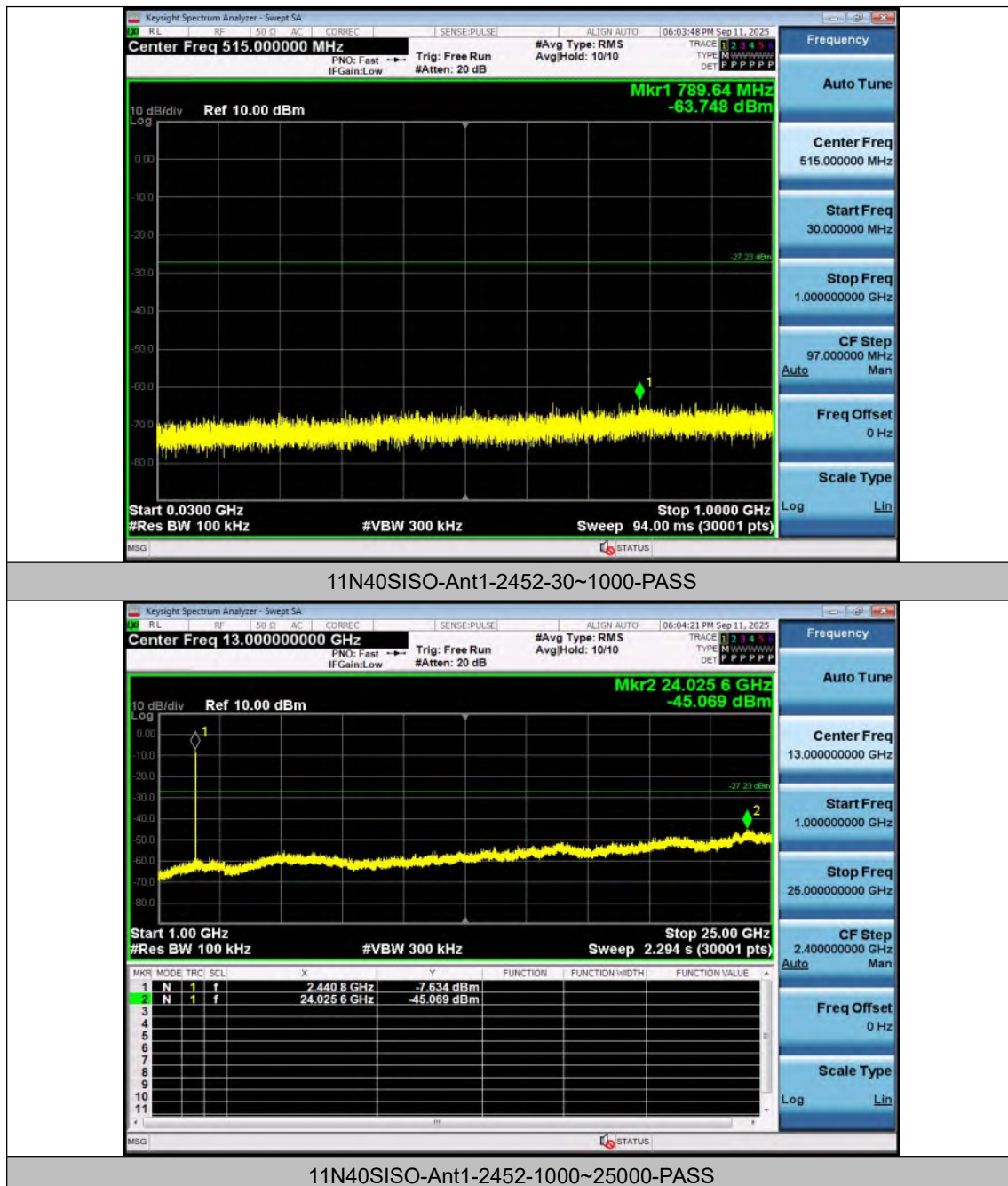
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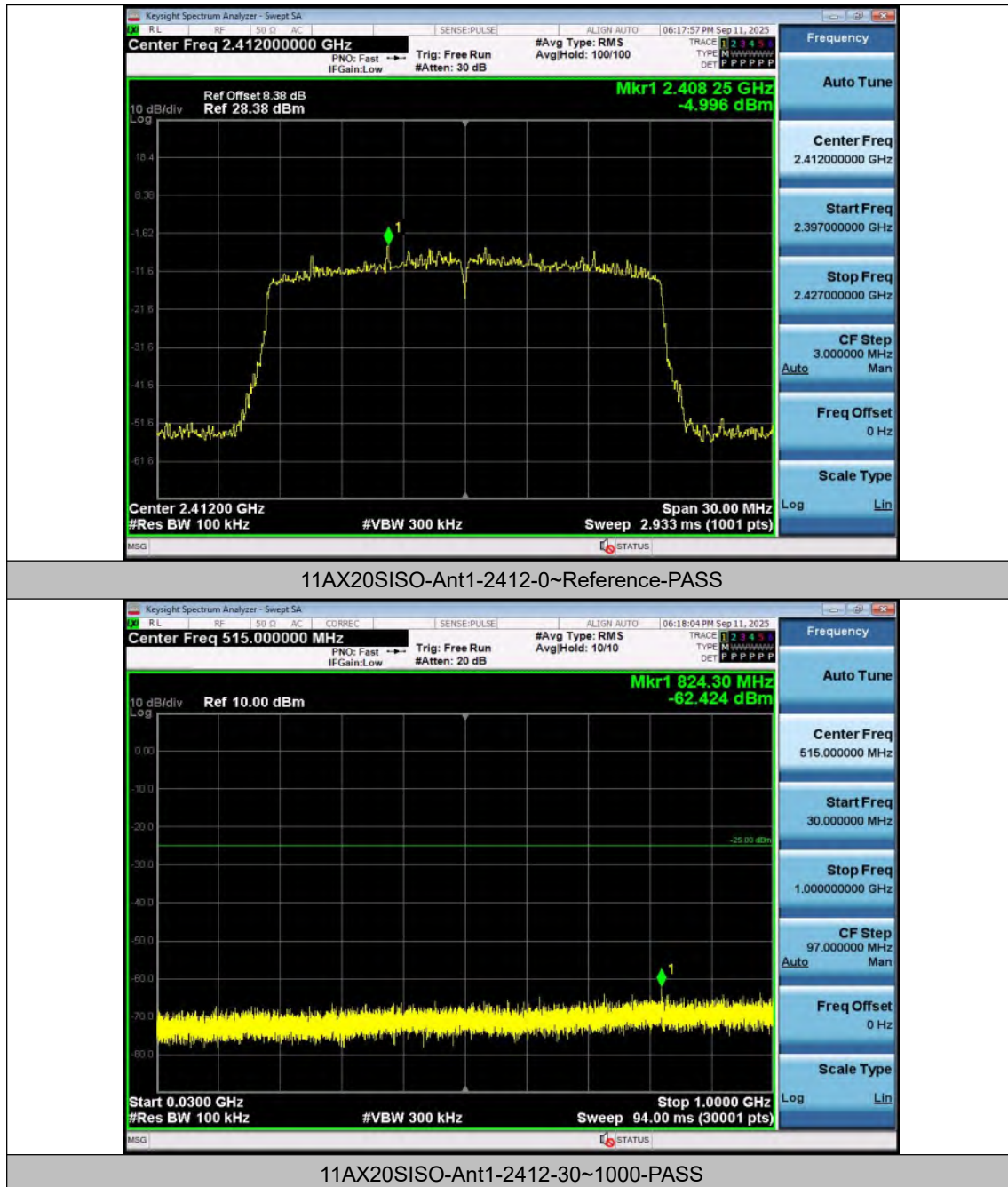




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