

Appendix Test Data

Report No.:	18220WC30250902	Test Sample No.:	1-2-2
Start Test Date:	2023.12.04	Finish Test Date:	2023.12.05
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	44%
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	10.000	2407.000	2417.000	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

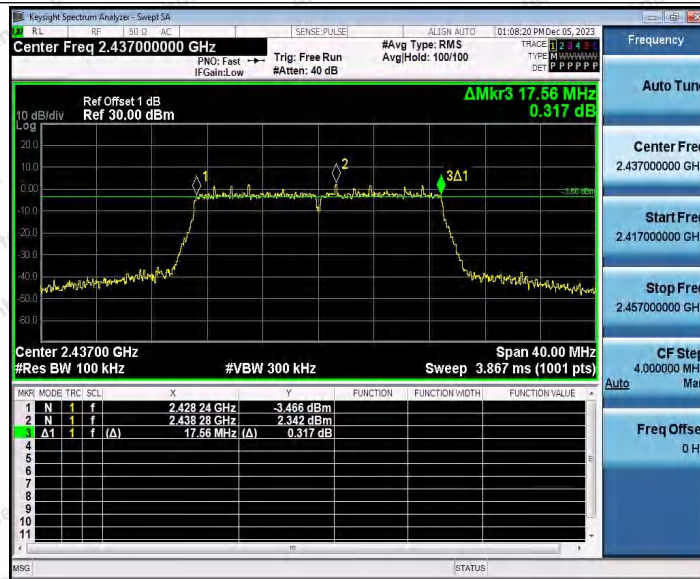
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11N20SISO_Ant1_2462



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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	12.287	2405.9308	2418.2178	---	---
		2437	12.275	2430.9249	2443.1999	---	---
		2462	12.290	2455.8926	2468.1826	---	---
11G	Ant1	2412	17.131	2403.5159	2420.6469	---	---
		2437	17.089	2428.4757	2445.5647	---	---
		2462	17.085	2453.4543	2470.5393	---	---
11N20SISO	Ant1	2412	17.924	2403.1186	2421.0426	---	---
		2437	17.982	2428.0811	2446.0631	---	---
		2462	18.050	2452.9914	2471.0414	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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Appendix C: Maximum conducted output power

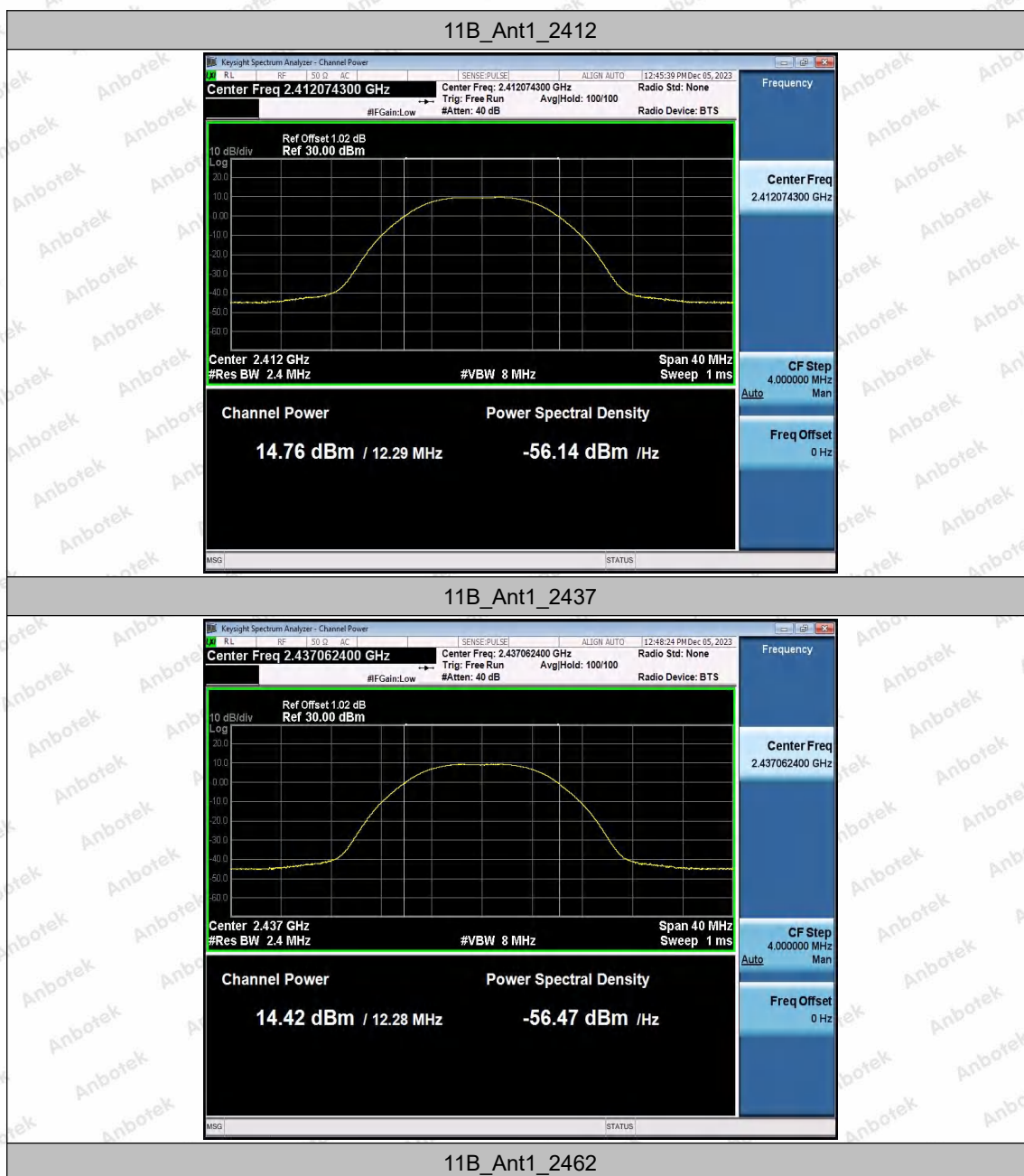
Test Result

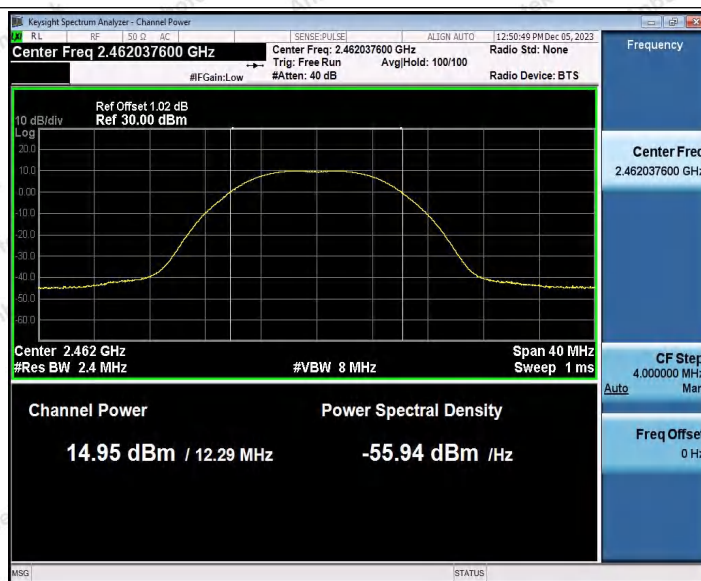
TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.76	≤30.00
		2437	14.42	≤30.00
		2462	14.95	≤30.00
11G	Ant1	2412	13.15	≤30.00
		2437	12.70	≤30.00
		2462	12.85	≤30.00
11N20SISO	Ant1	2412	12.60	≤30.00
		2437	13.07	≤30.00
		2462	12.51	≤30.00

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



Test Graphs





11G_Ant1_2412



11G_Ant1_2437



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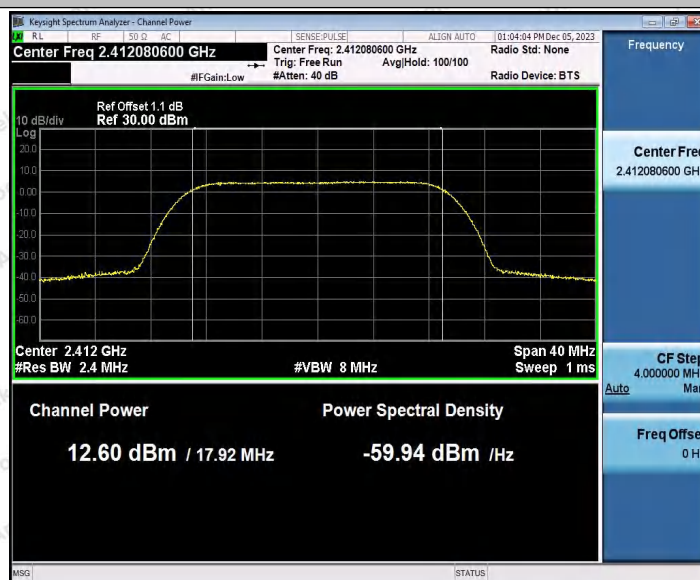
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

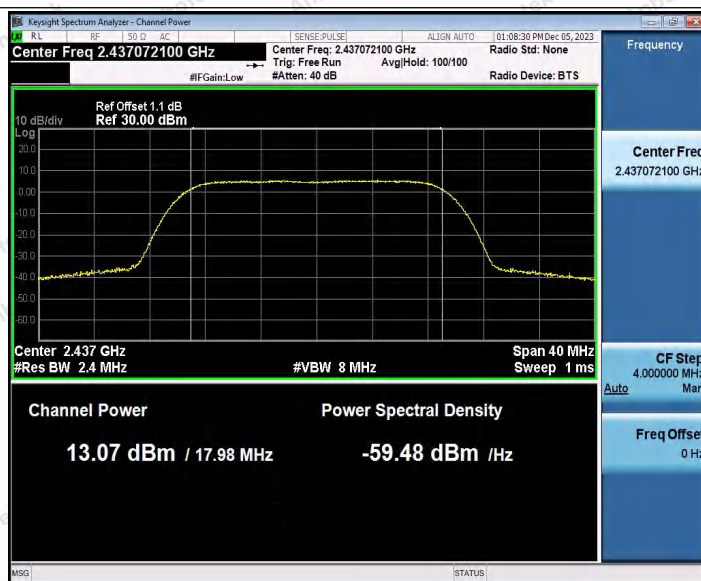
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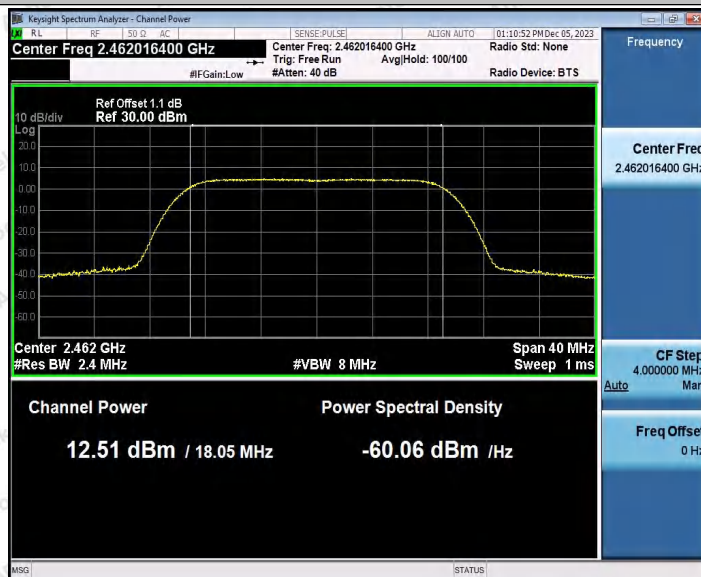


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11N20SISO_Ant1_2462



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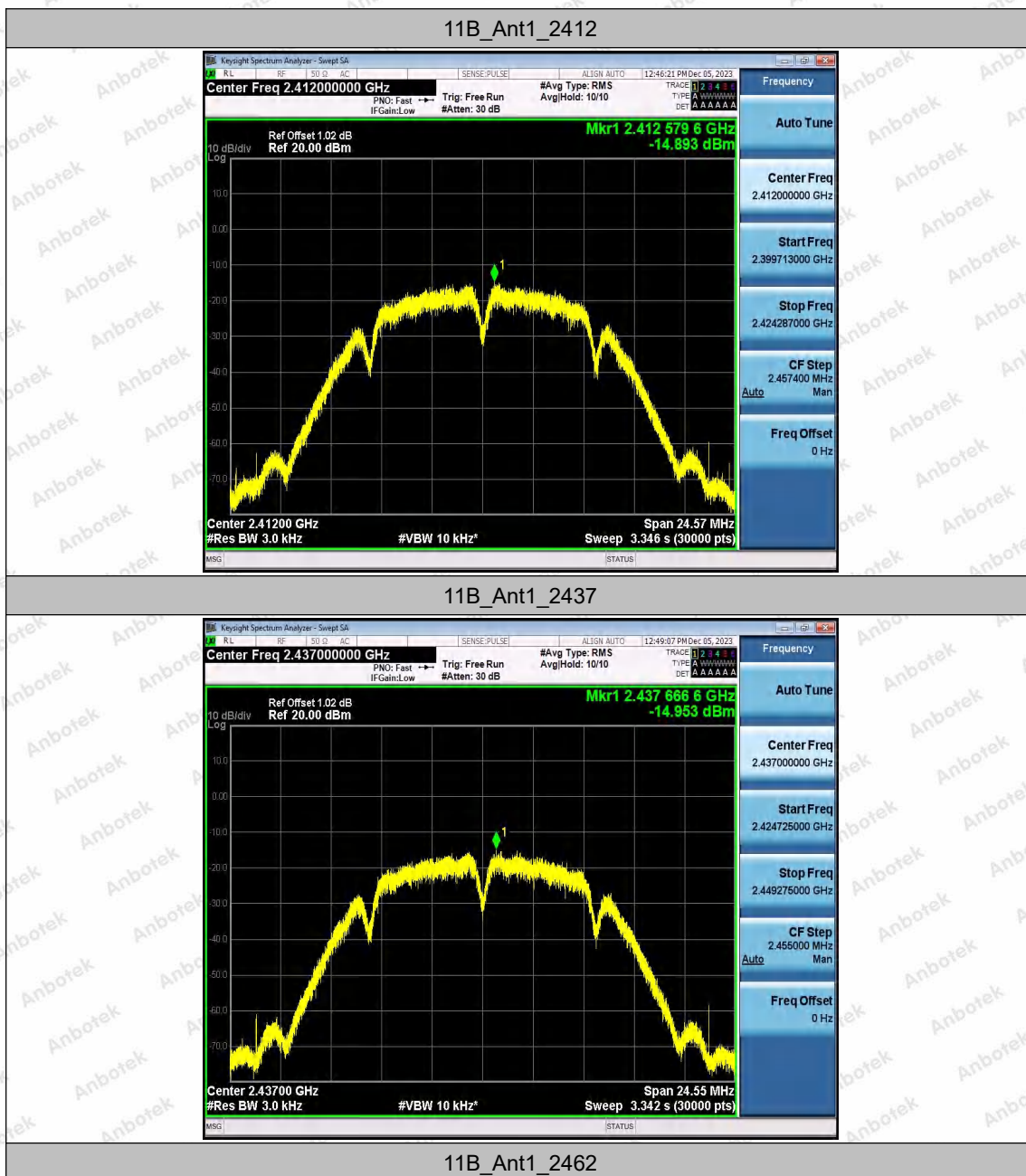
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.89	≤8.00	PASS
		2437	-14.95	≤8.00	PASS
		2462	-13.31	≤8.00	PASS
11G	Ant1	2412	-19.06	≤8.00	PASS
		2437	-19.3	≤8.00	PASS
		2462	-18.94	≤8.00	PASS
11N20SISO	Ant1	2412	-19.86	≤8.00	PASS
		2437	-18.54	≤8.00	PASS
		2462	-20.07	≤8.00	PASS



Test Graphs



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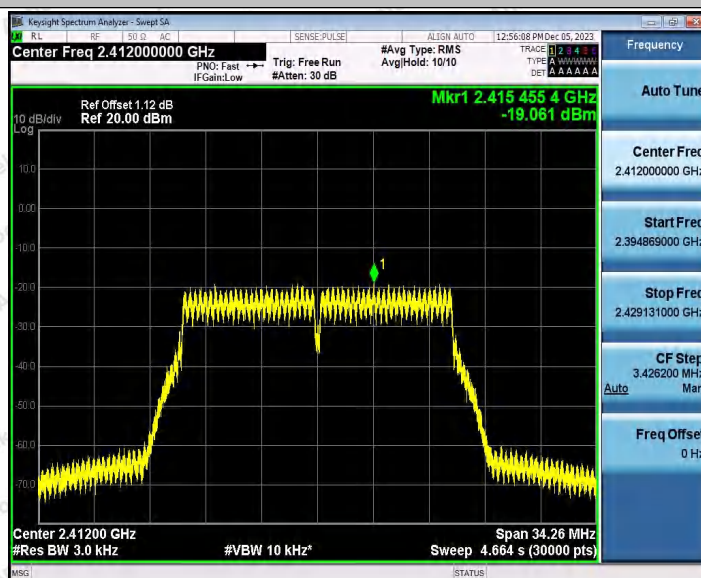
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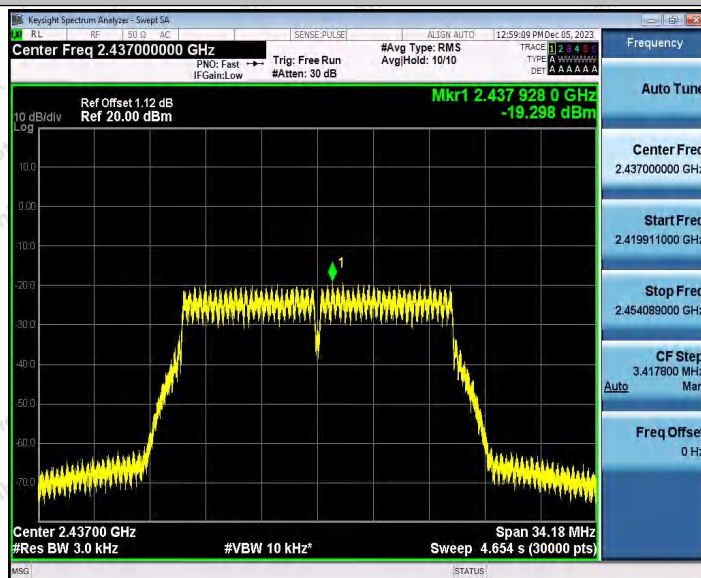




11G_Ant1_2412



11G_Ant1_2437



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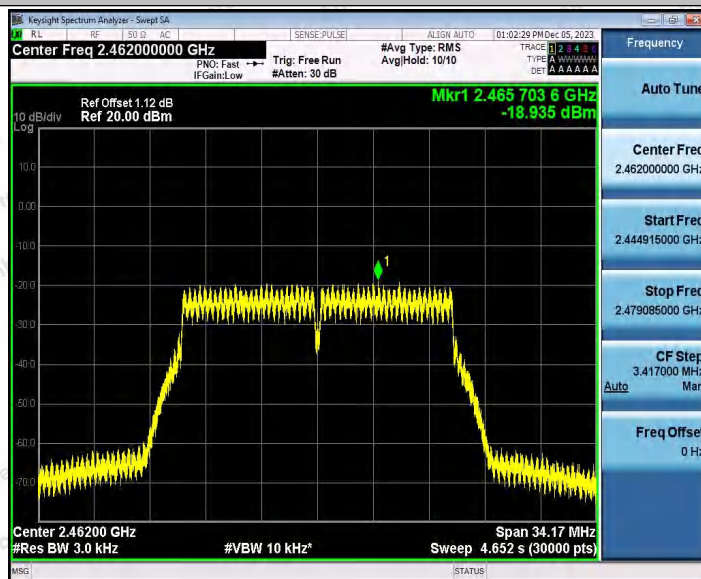
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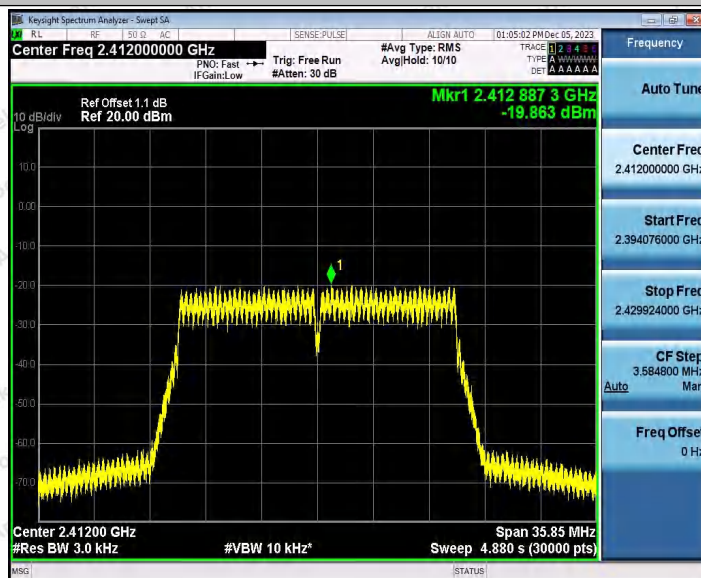
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

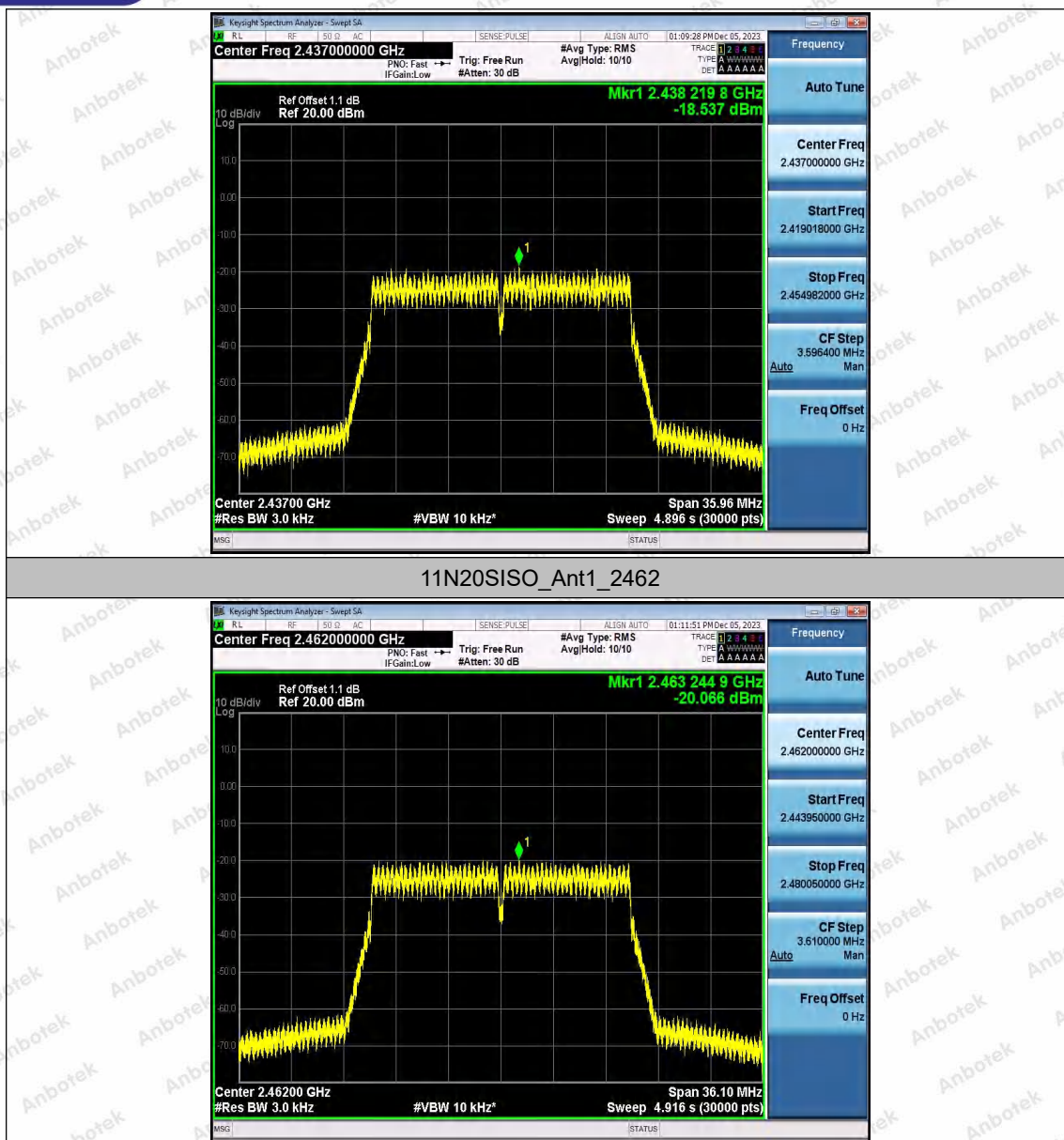
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Appendix E: Band edge measurements

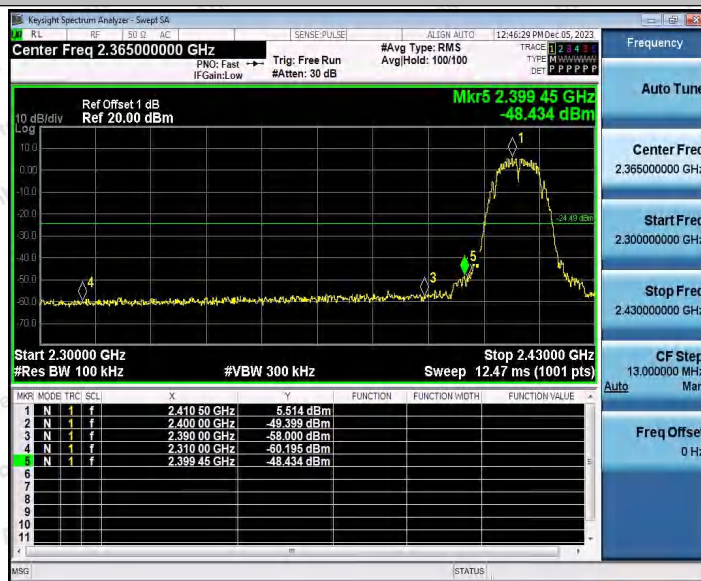
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.51	-48.43	≤-24.49	PASS
		High	2462	5.97	-54.8	≤-24.03	PASS
11G	Ant1	Low	2412	2.04	-37.27	≤-27.96	PASS
		High	2462	1.79	-50.12	≤-28.21	PASS
11N20SISO	Ant1	Low	2412	1.35	-39.28	≤-28.65	PASS
		High	2462	1.38	-48.54	≤-28.62	PASS

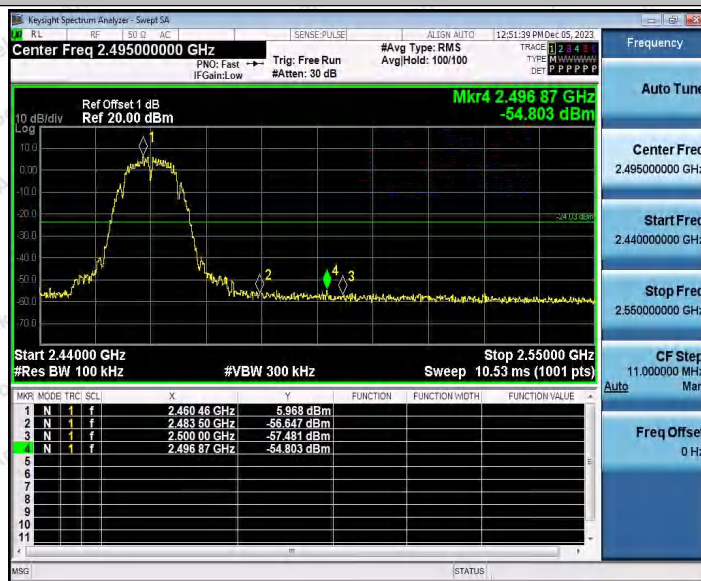


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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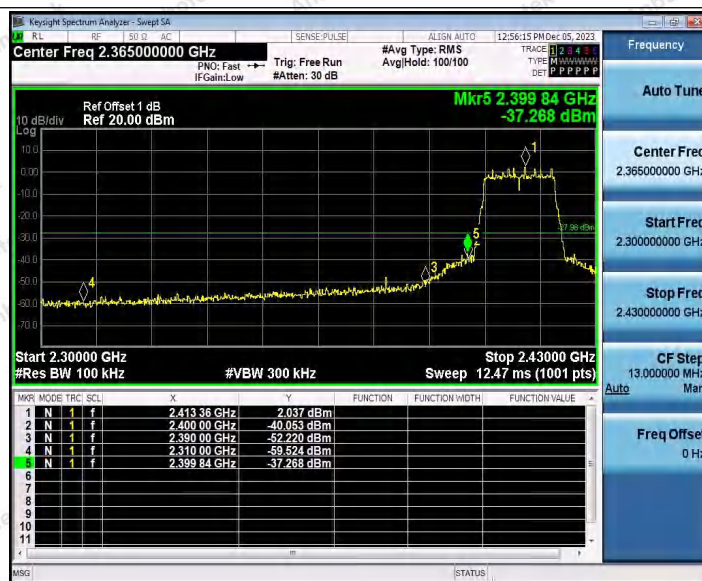


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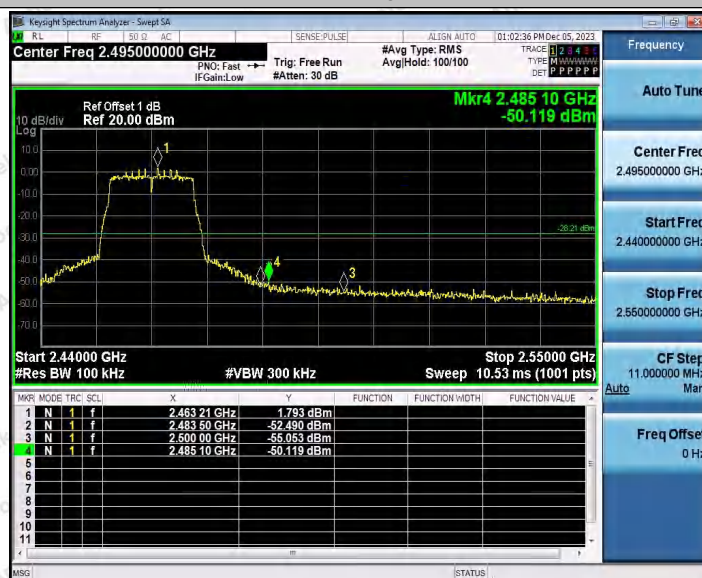
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

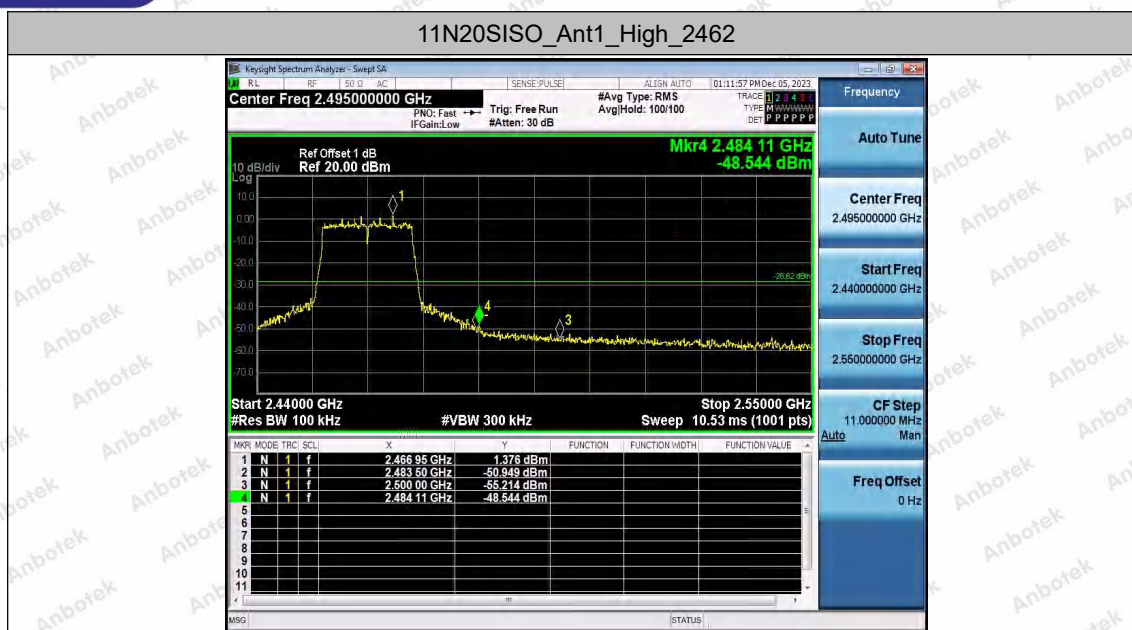


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.89	4.89	---	PASS
			30~1000	4.89	-58.16	≤-25.11	PASS
			1000~26500	4.89	-47.67	≤-25.11	PASS
		2437	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-58.49	≤-25.75	PASS
			1000~26500	4.25	-49.99	≤-25.75	PASS
		2462	Reference	4.65	4.65	---	PASS
			30~1000	4.65	-58.99	≤-25.35	PASS
			1000~26500	4.65	-48.9	≤-25.35	PASS
11G	Ant1	2412	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-58.92	≤-31.69	PASS
			1000~26500	-1.69	-51.31	≤-31.69	PASS
		2437	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-60.25	≤-31.83	PASS
			1000~26500	-1.83	-53.65	≤-31.83	PASS
		2462	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-57.62	≤-29.69	PASS
			1000~26500	0.31	-54.2	≤-29.69	PASS
11N20SISO	Ant1	2412	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-58.28	≤-28.53	PASS
			1000~26500	1.47	-53.86	≤-28.53	PASS
		2437	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-58.18	≤-31.85	PASS
			1000~26500	-1.85	-53.59	≤-31.85	PASS
		2462	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-57.76	≤-30.22	PASS
			1000~26500	-0.22	-54.09	≤-30.22	PASS

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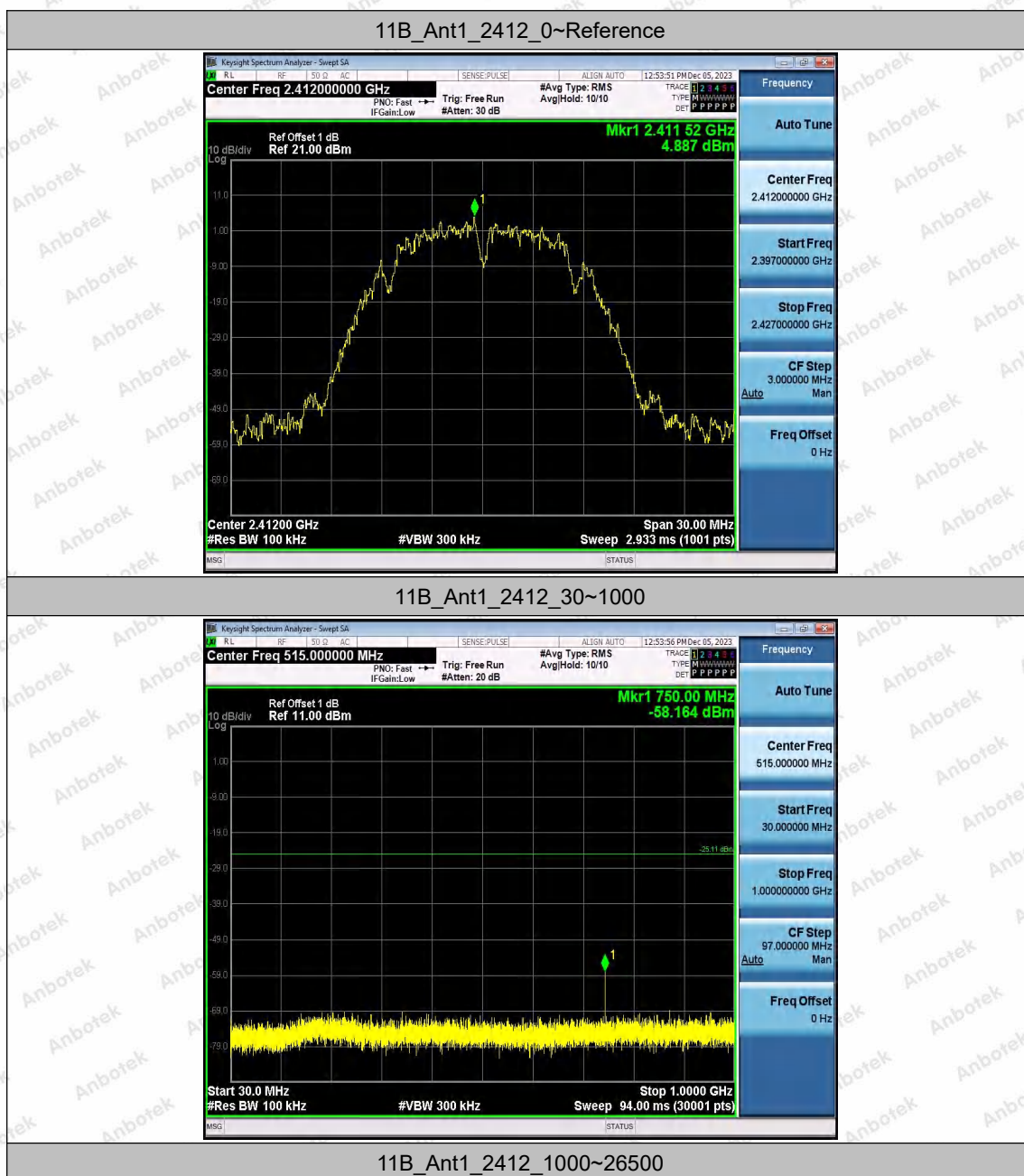
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Test Graphs



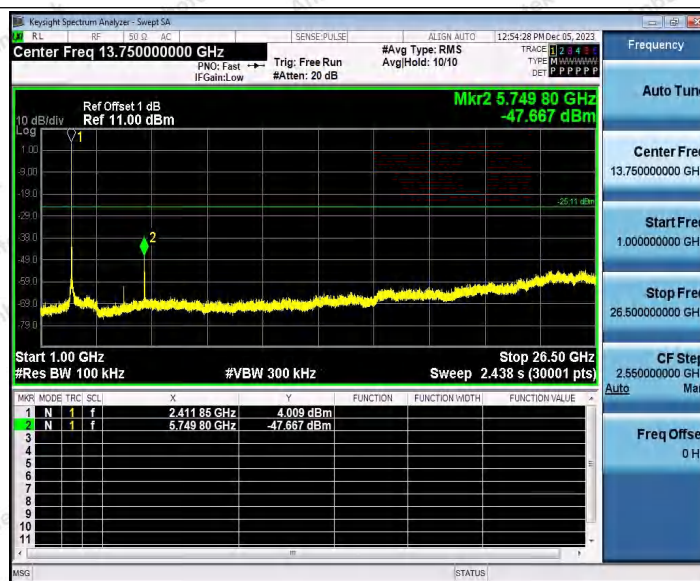
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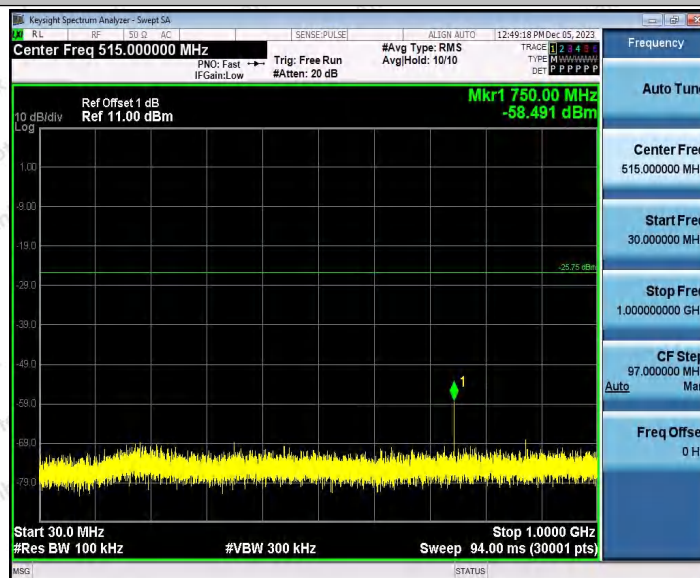




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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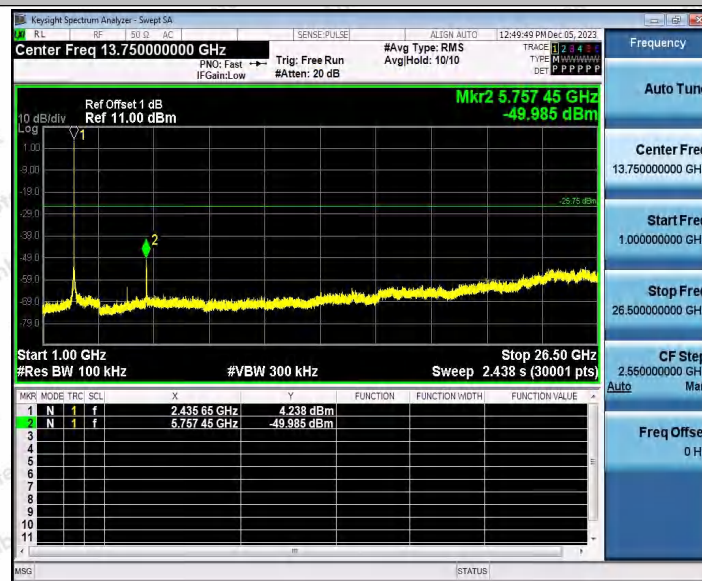
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

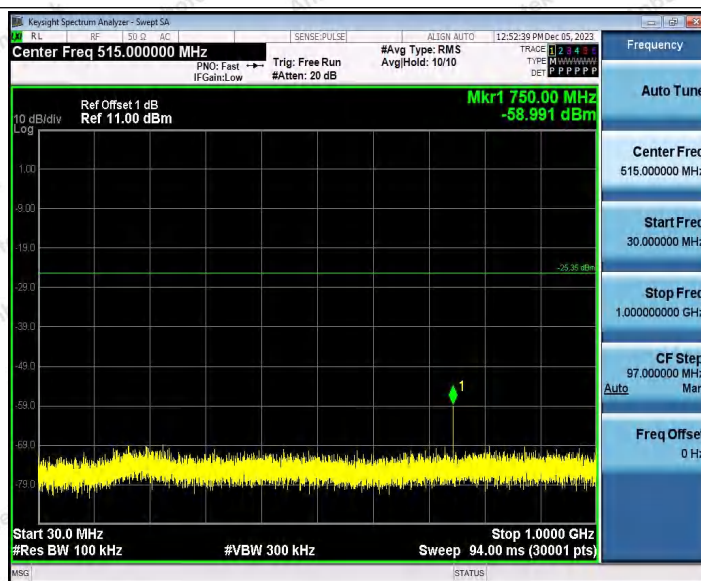
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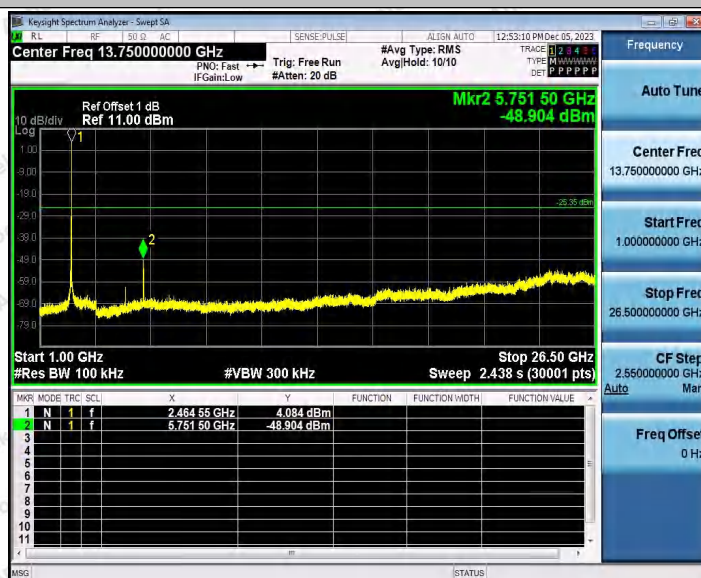


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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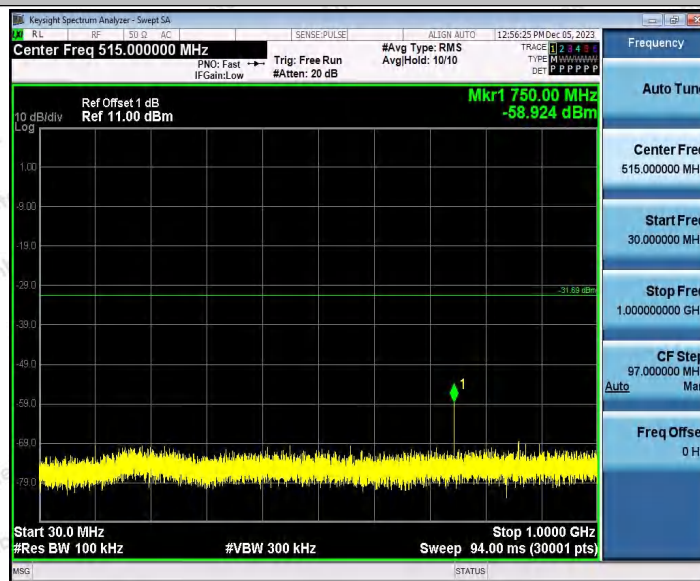
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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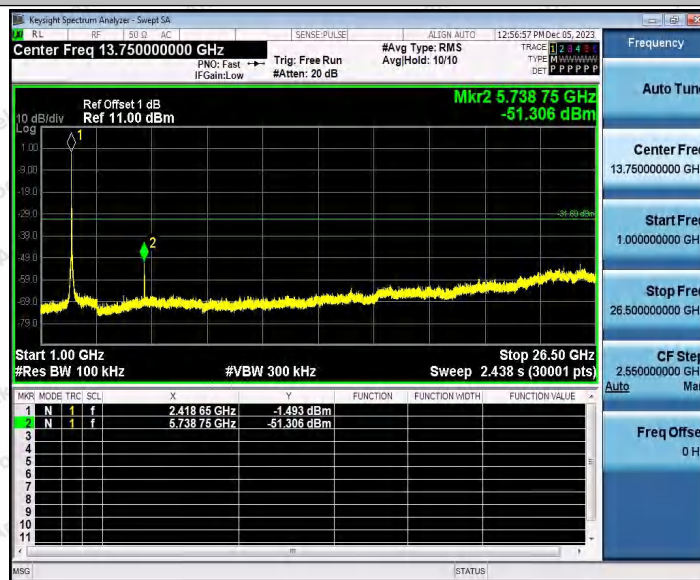
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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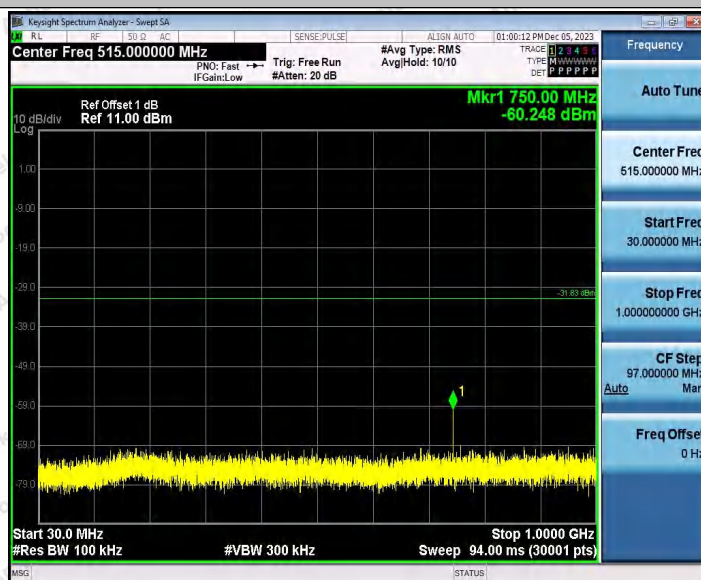


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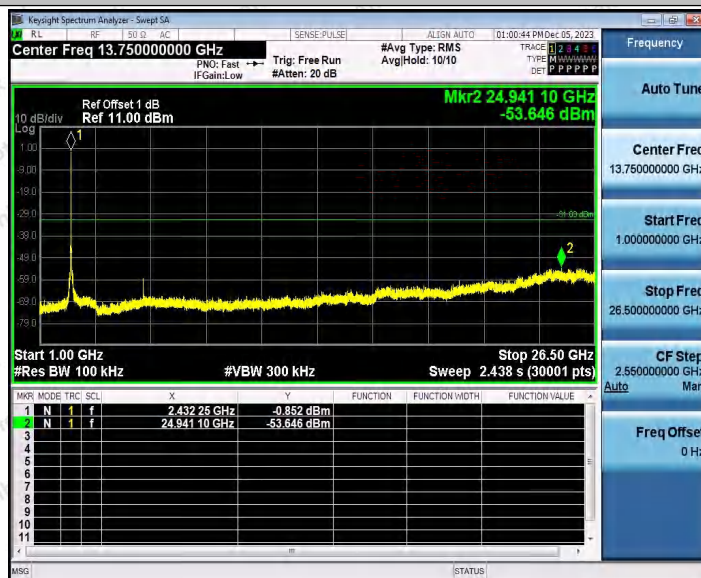




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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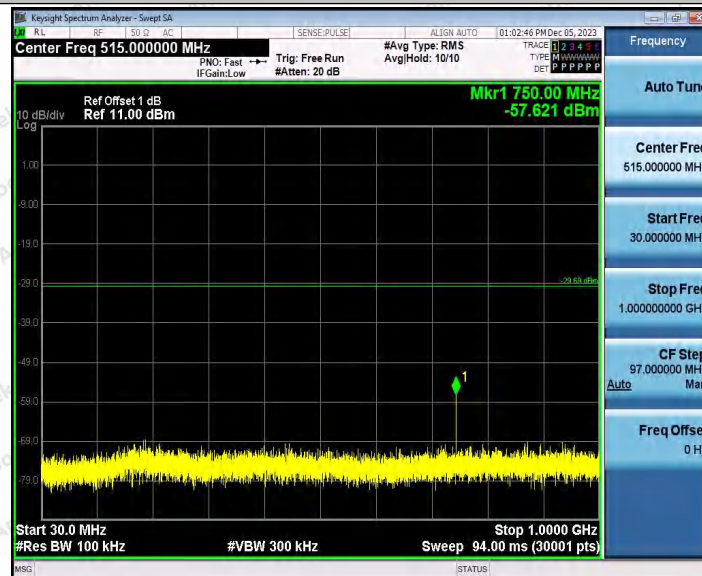
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

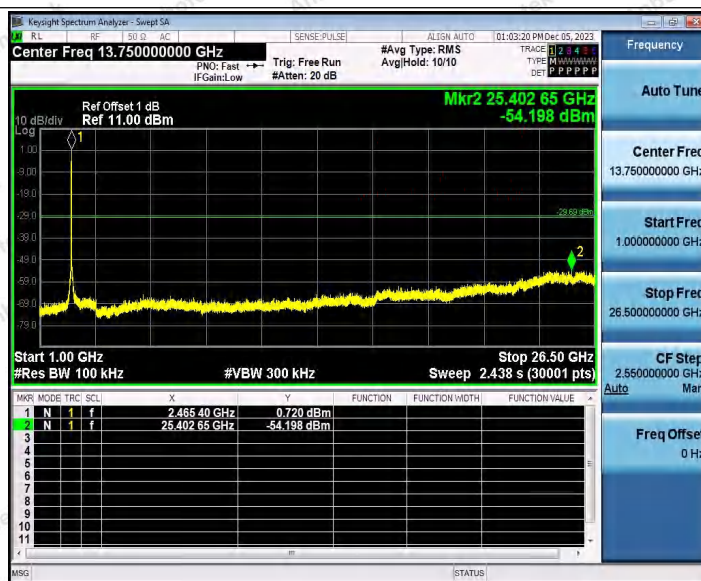
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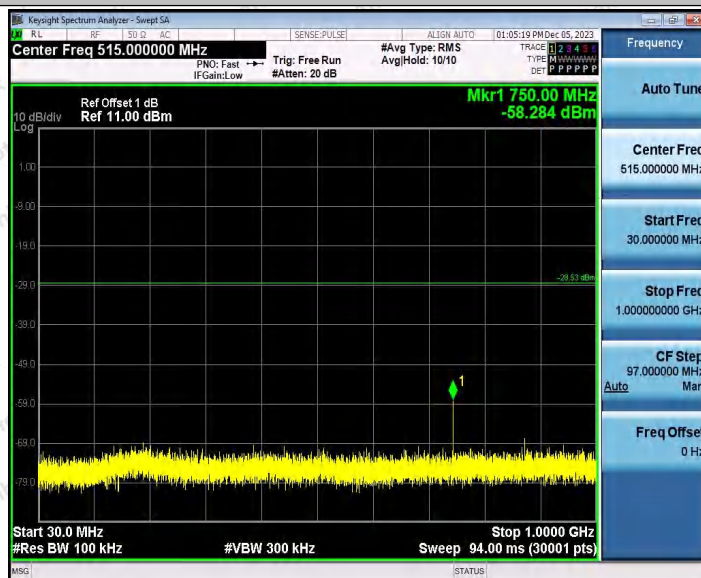




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

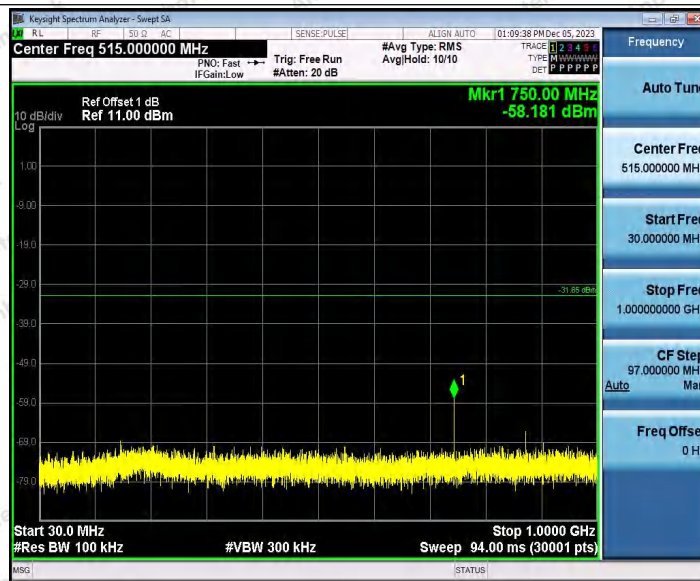
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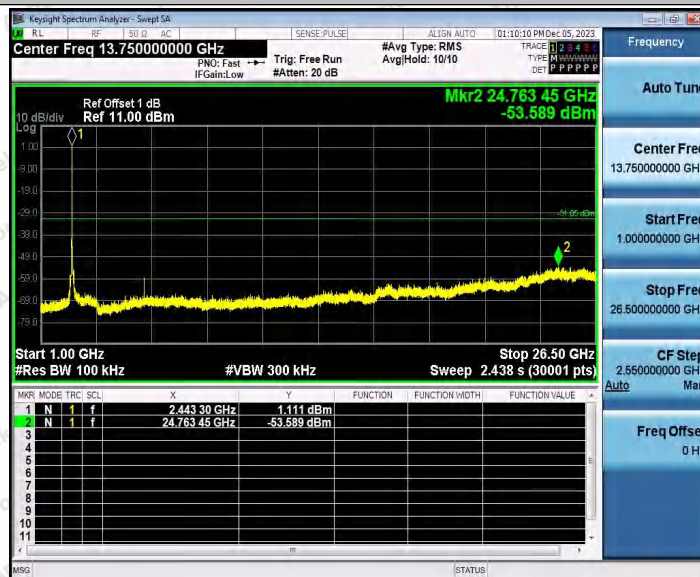


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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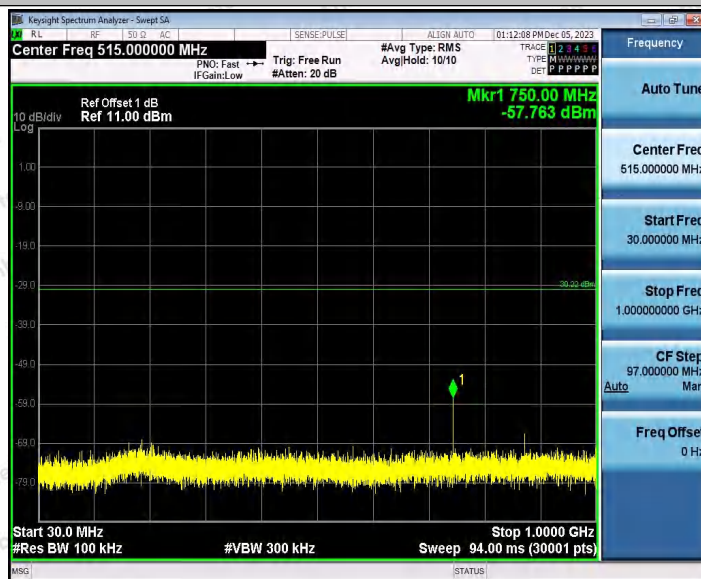
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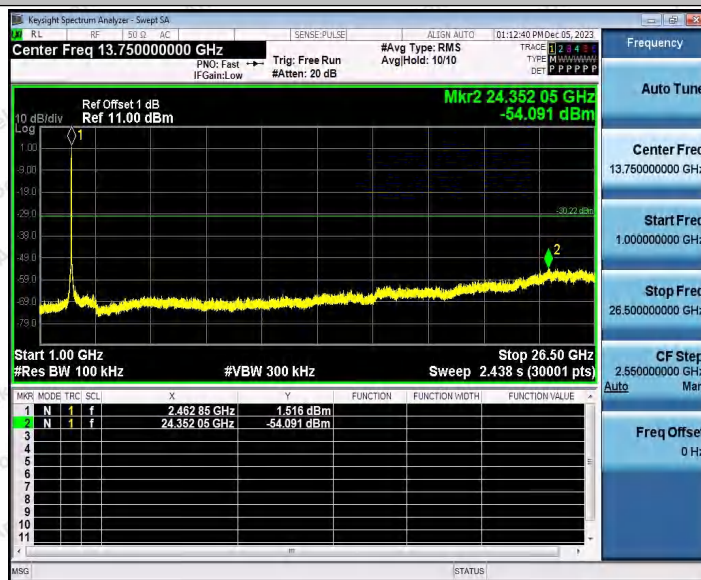
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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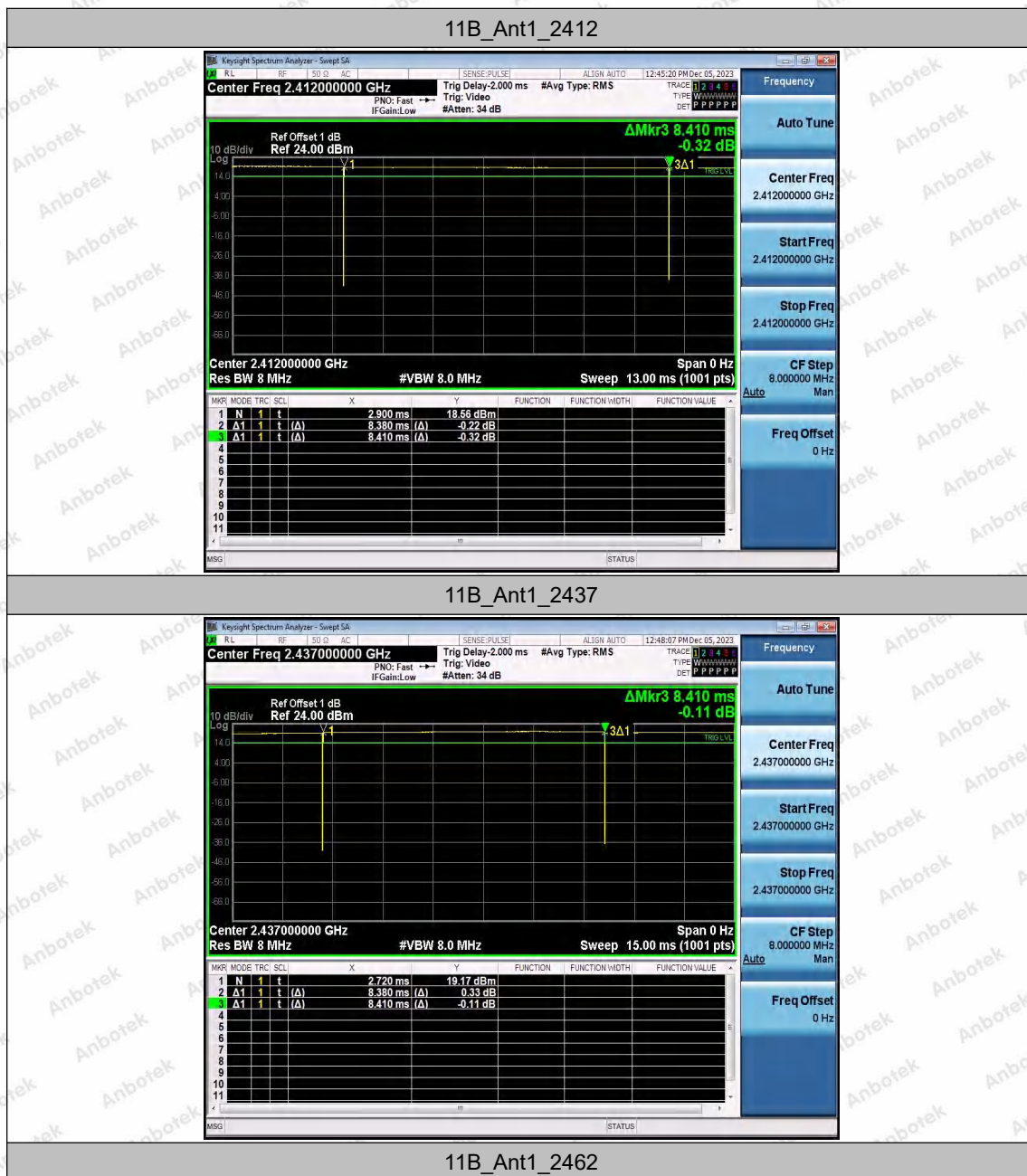
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.41	99.64	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.38	8.42	99.52	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.33	97.74	0.10



Test Graphs



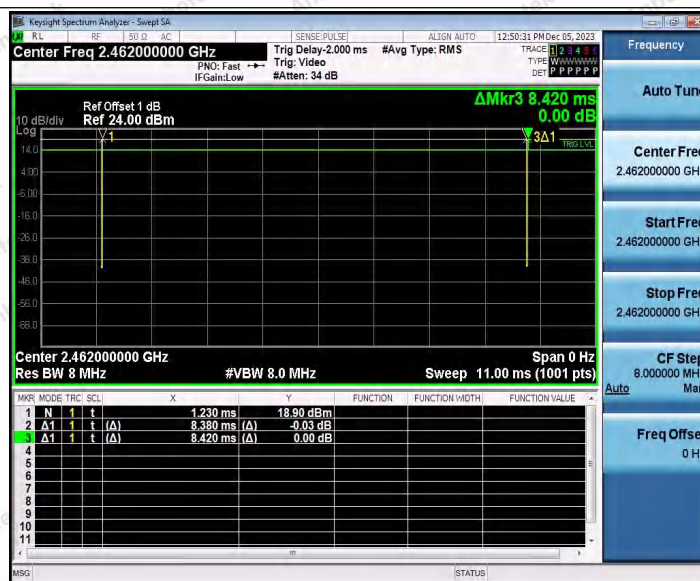
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11G_Ant1_2412



11G_Ant1_2437



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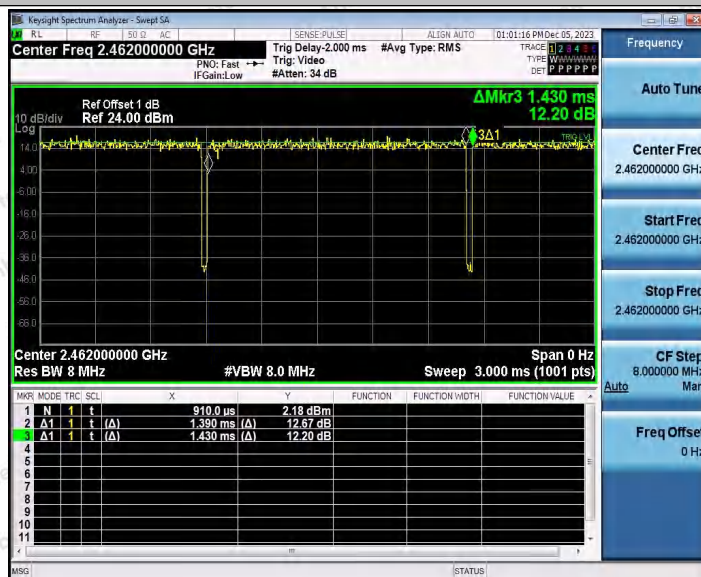
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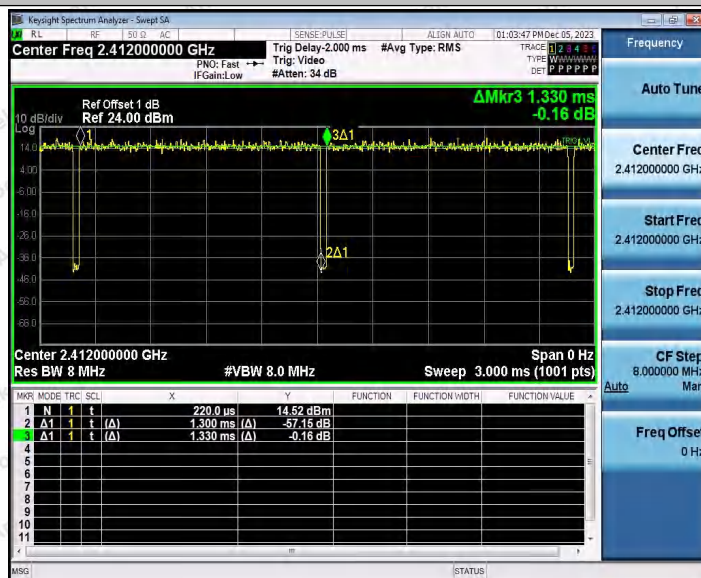
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

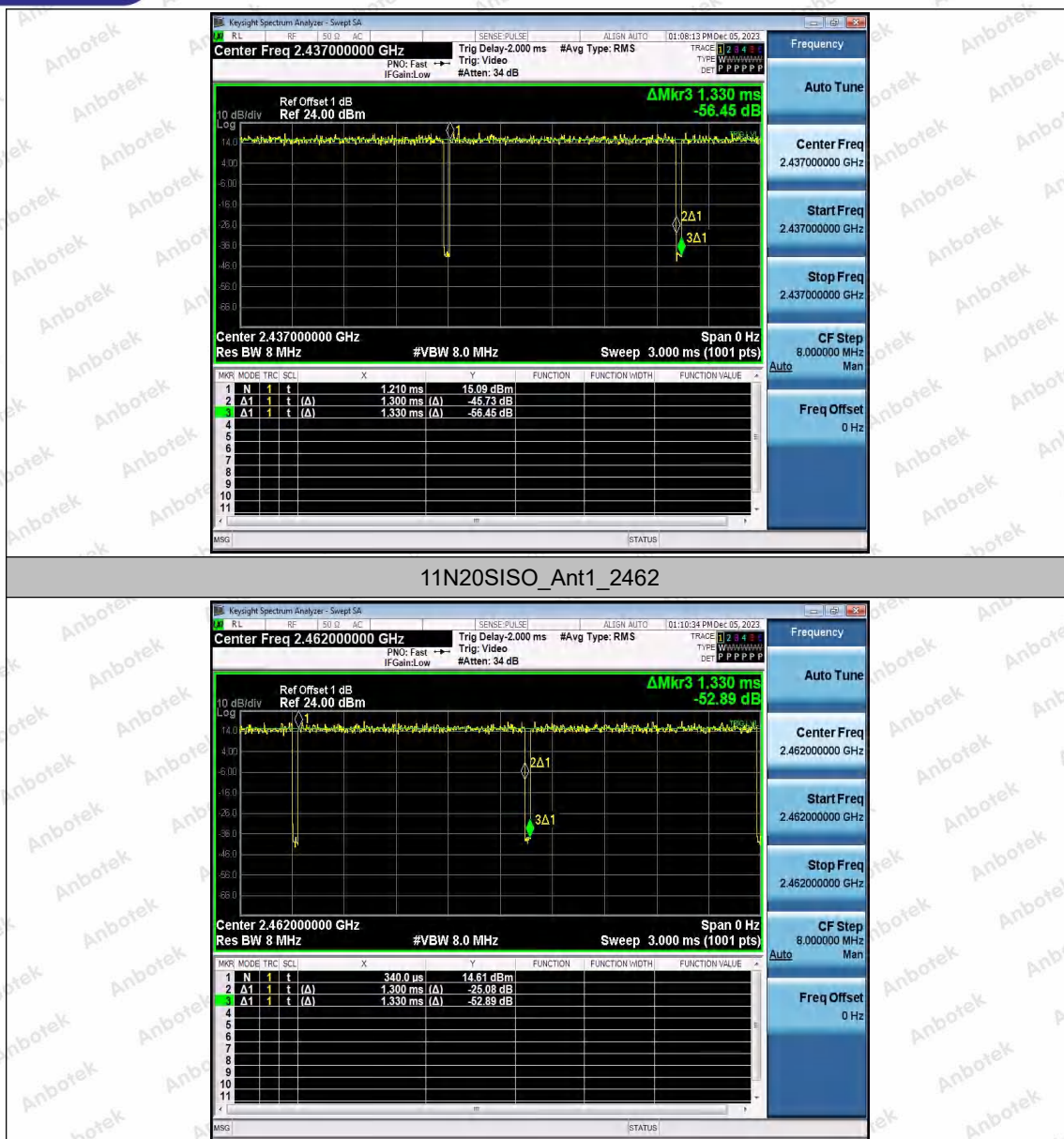
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---End---

