

Appendix Test Data

Report No.:	18220WC30264501	Test Sample No.:	1-2-2
Start Test Date:	2023.12.24	Finish Test Date:	2023.12.25
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	24.5°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	8.080	2407.960	2416.040	0.5	PASS
		2437	9.600	2432.440	2442.040	0.5	PASS
		2462	9.040	2457.480	2466.520	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	17.560	2403.240	2420.800	0.5	PASS
		2437	17.520	2428.240	2445.760	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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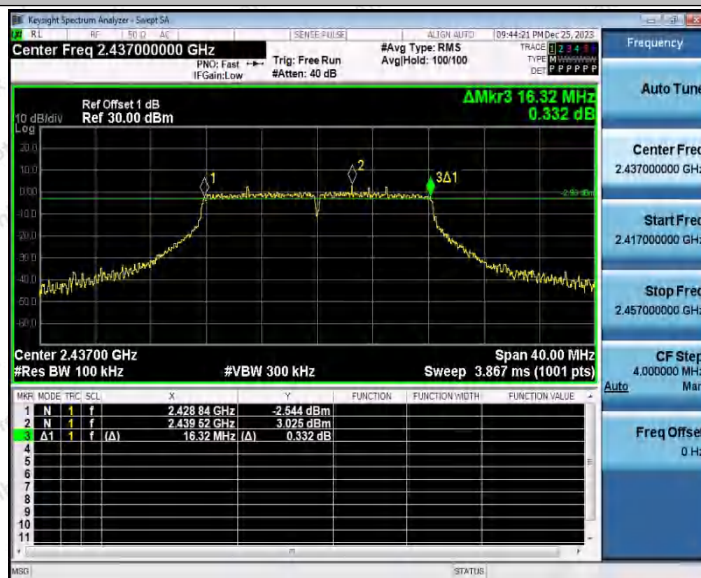




11G_Ant1_2412



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	13.985	2405.0096	2418.9946	---	---
		2437	14.002	2429.9960	2443.9980	---	---
		2462	14.010	2454.9901	2469.0001	---	---
11G	Ant1	2412	17.079	2403.4678	2420.5468	---	---
		2437	17.213	2428.3823	2445.5953	---	---
		2462	17.102	2453.4653	2470.5673	---	---
11N20SISO	Ant1	2412	18.167	2402.9489	2421.1159	---	---
		2437	18.201	2427.9597	2446.1607	---	---
		2462	18.228	2452.9406	2471.1686	---	---



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

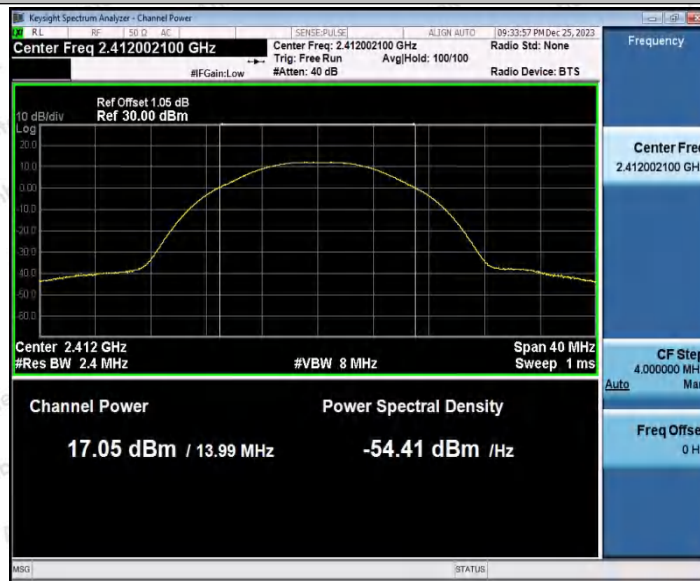
TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	17.05	≤30.00
		2437	17.04	≤30.00
		2462	17.07	≤30.00
11G	Ant1	2412	14.25	≤30.00
		2437	14.23	≤30.00
		2462	14.27	≤30.00
11N20SISO	Ant1	2412	13.68	≤30.00
		2437	13.79	≤30.00
		2462	13.68	≤30.00

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



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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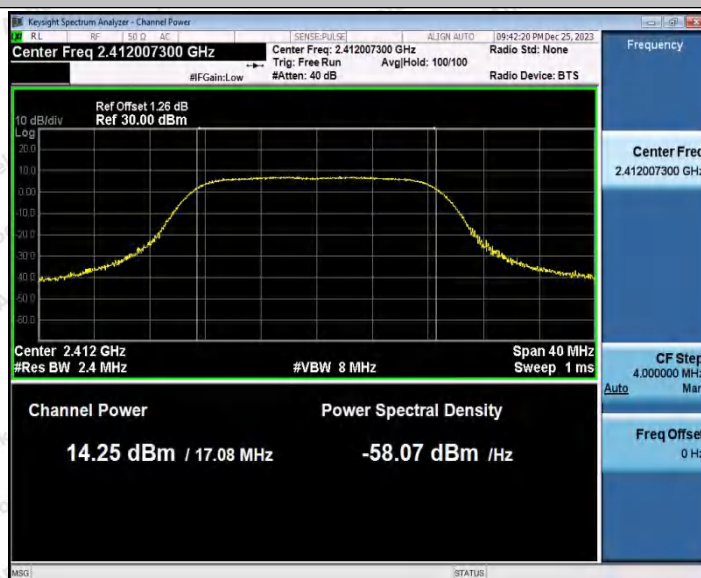


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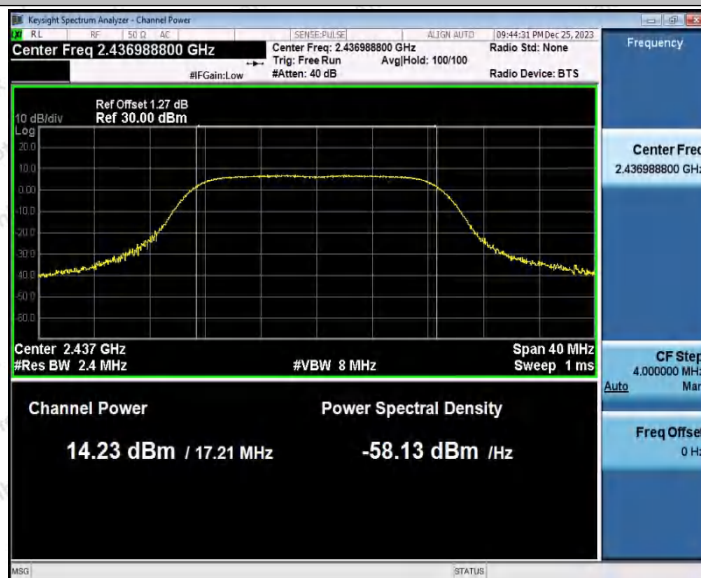




11G_Ant1_2412



11G_Ant1_2437



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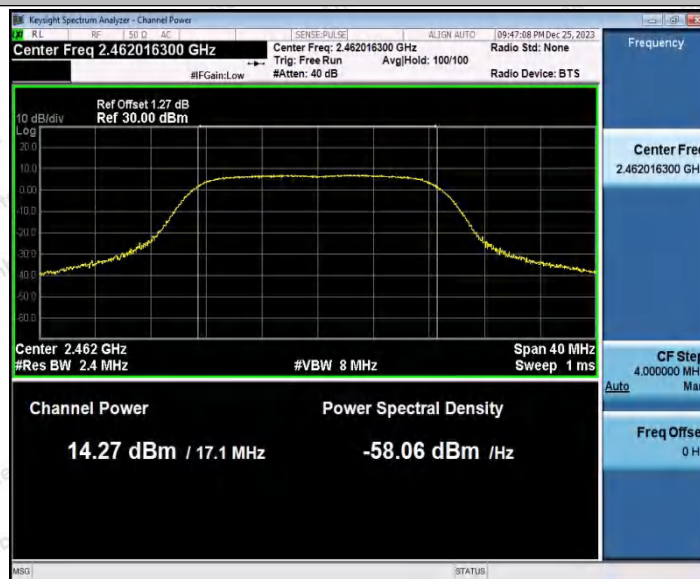
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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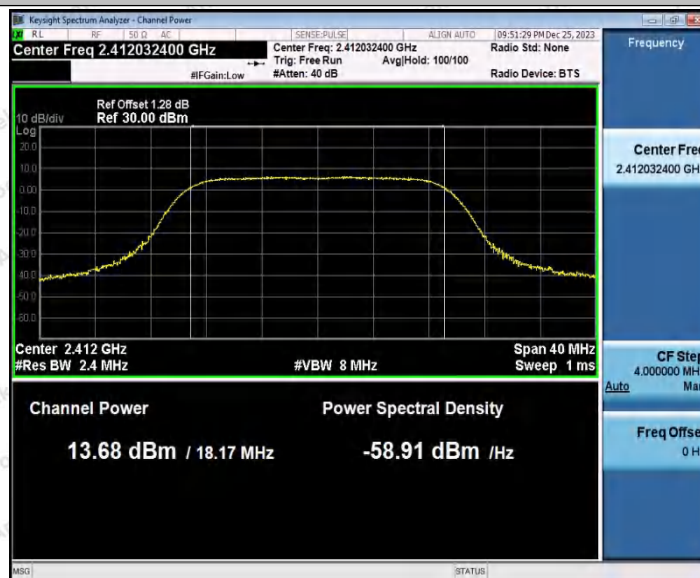
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

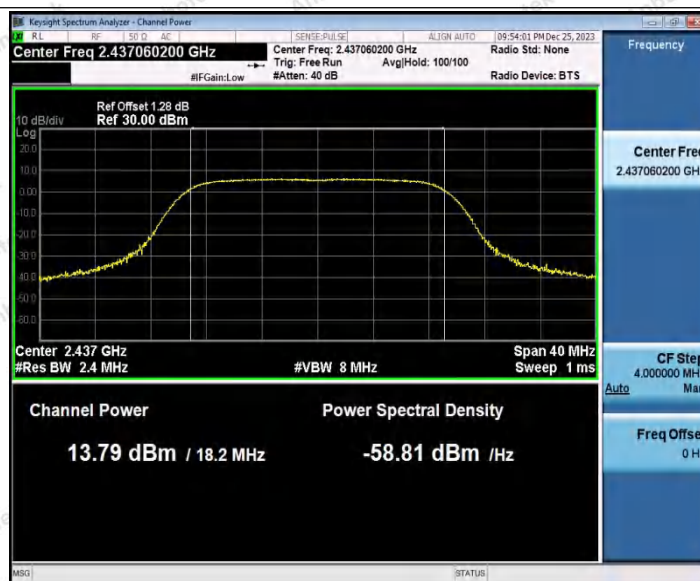
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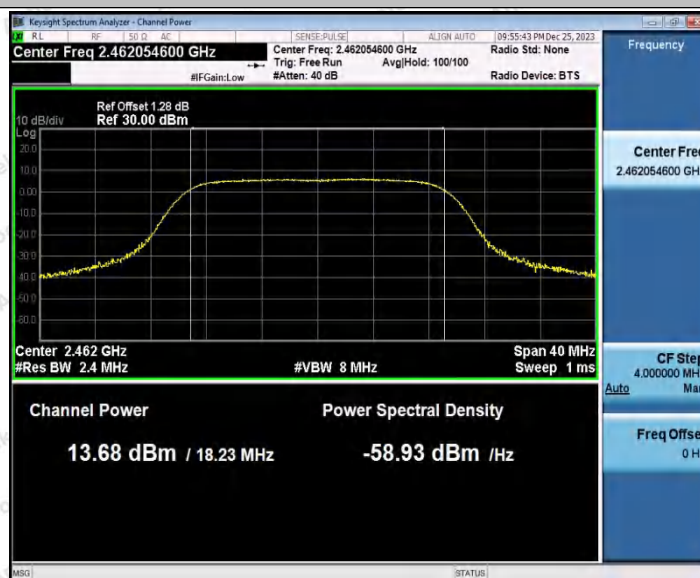


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.56	-14.56	≤8.00	PASS
		2437	-4.68	-14.68	≤8.00	PASS
		2462	-4.72	-14.72	≤8.00	PASS
11G	Ant1	2412	-9.82	-19.82	≤8.00	PASS
		2437	-9.42	-19.42	≤8.00	PASS
		2462	-9.73	-19.73	≤8.00	PASS
11N20SISO	Ant1	2412	-10.53	-20.53	≤8.00	PASS
		2437	-10.63	-20.63	≤8.00	PASS
		2462	-10.14	-20.14	≤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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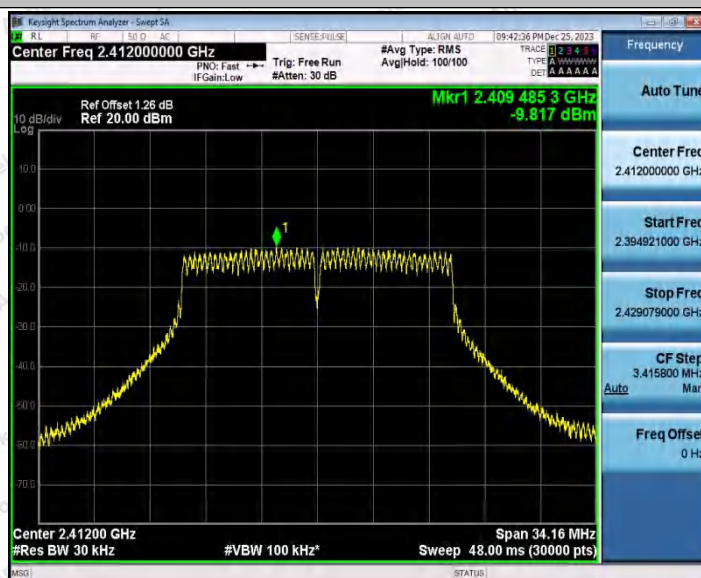
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11G_Ant1_2412



11G_Ant1_2437



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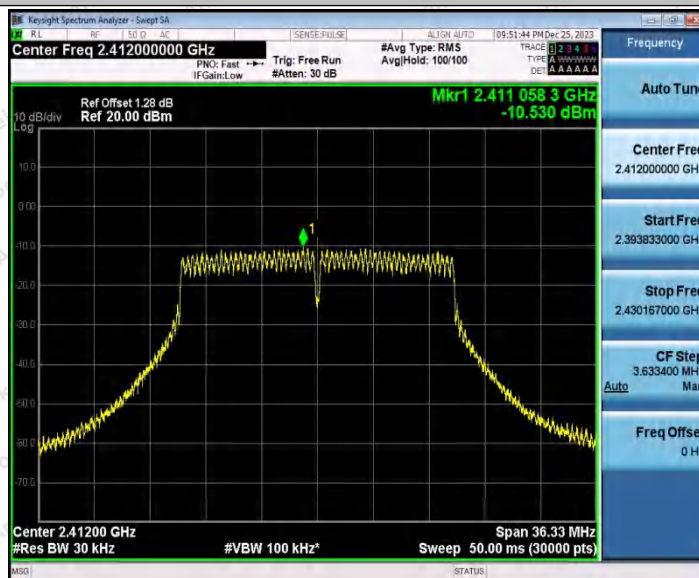
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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Appendix E: Band edge measurements

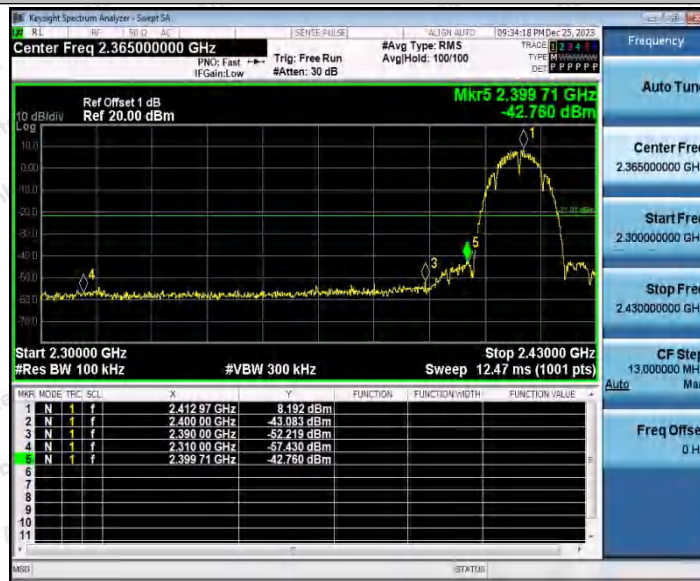
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.19	-42.76	≤-21.81	PASS
		High	2462	8.84	-53.56	≤-21.16	PASS
11G	Ant1	Low	2412	2.30	-32.48	≤-27.7	PASS
		High	2462	2.86	-44.6	≤-27.14	PASS
11N20SISO	Ant1	Low	2412	2.30	-31.21	≤-27.7	PASS
		High	2462	2.00	-43.46	≤-28	PASS

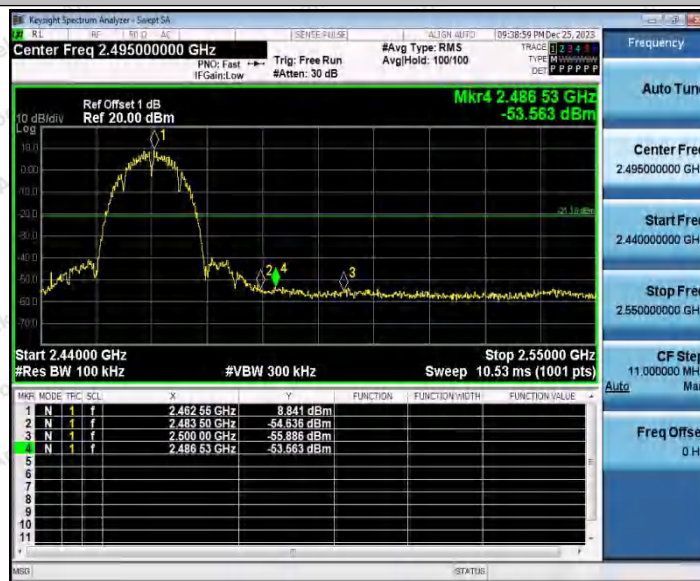


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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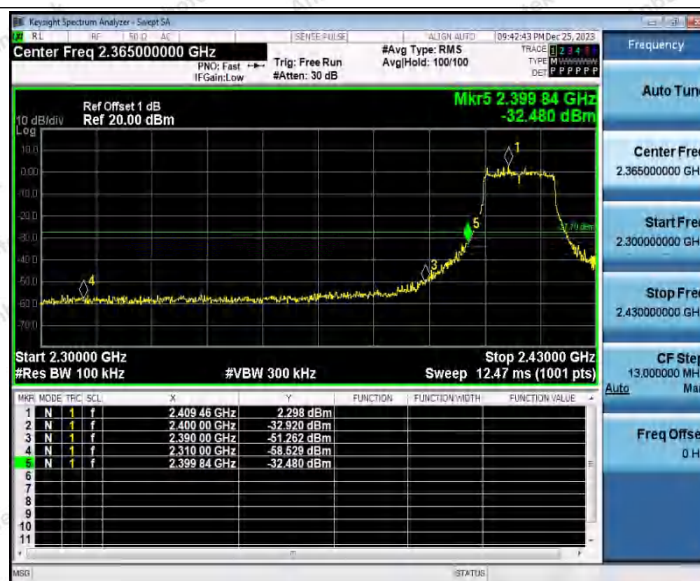


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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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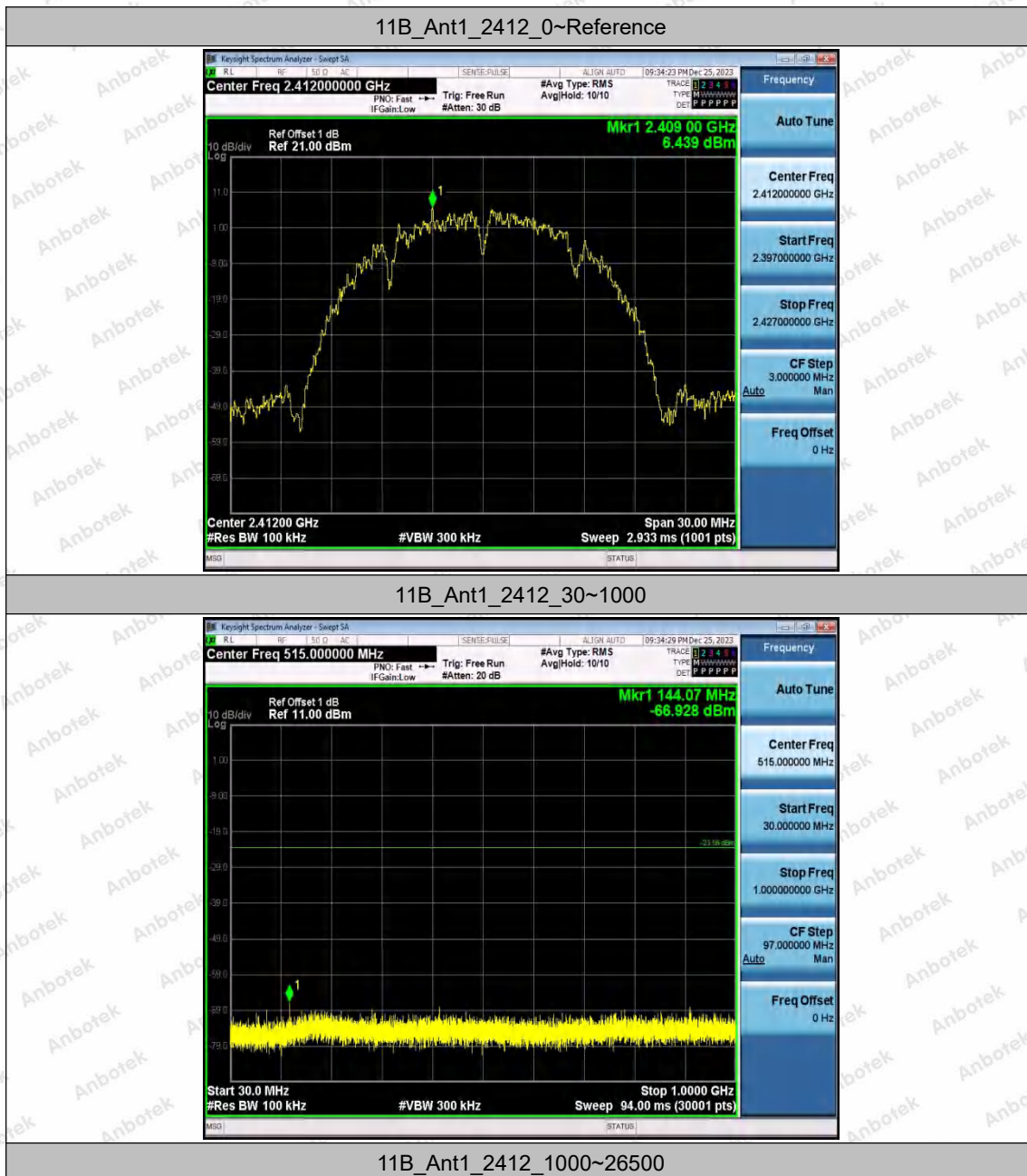
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.44	6.44	---	PASS
			30~1000	6.44	-66.93	≤-23.56	PASS
			1000~26500	6.44	-53.36	≤-23.56	PASS
		2437	Reference	6.62	6.62	---	PASS
			30~1000	6.62	-68.65	≤-23.38	PASS
			1000~26500	6.62	-53.77	≤-23.38	PASS
		2462	Reference	7.43	7.43	---	PASS
			30~1000	7.43	-68.2	≤-22.57	PASS
			1000~26500	7.43	-53.7	≤-22.57	PASS
11G	Ant1	2412	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-68.18	≤-29.53	PASS
			1000~26500	0.47	-53.9	≤-29.53	PASS
		2437	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-67.58	≤-28.08	PASS
			1000~26500	1.92	-53.61	≤-28.08	PASS
		2462	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-67.68	≤-30.36	PASS
			1000~26500	-0.36	-53.37	≤-30.36	PASS
11N20SISO	Ant1	2412	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-66.88	≤-30.58	PASS
			1000~26500	-0.58	-52.3	≤-30.58	PASS
		2437	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-67.19	≤-28.19	PASS
			1000~26500	1.81	-52.4	≤-28.19	PASS
		2462	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-67.17	≤-27.88	PASS
			1000~26500	2.12	-53.45	≤-27.88	PASS



Test Graphs



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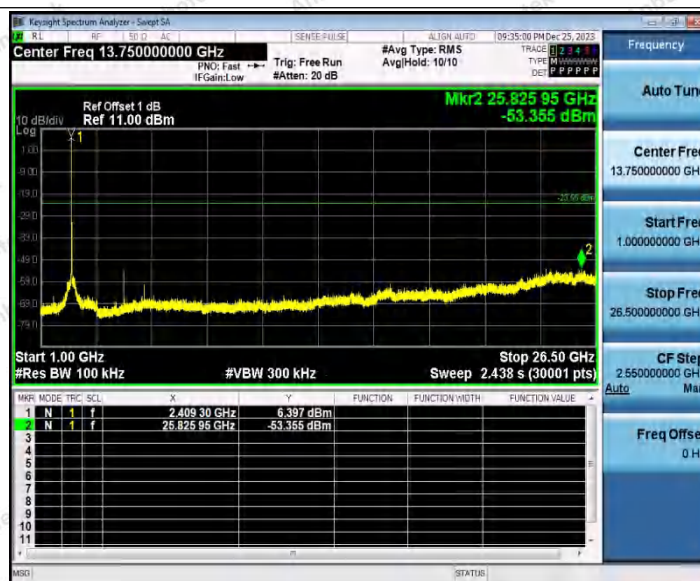


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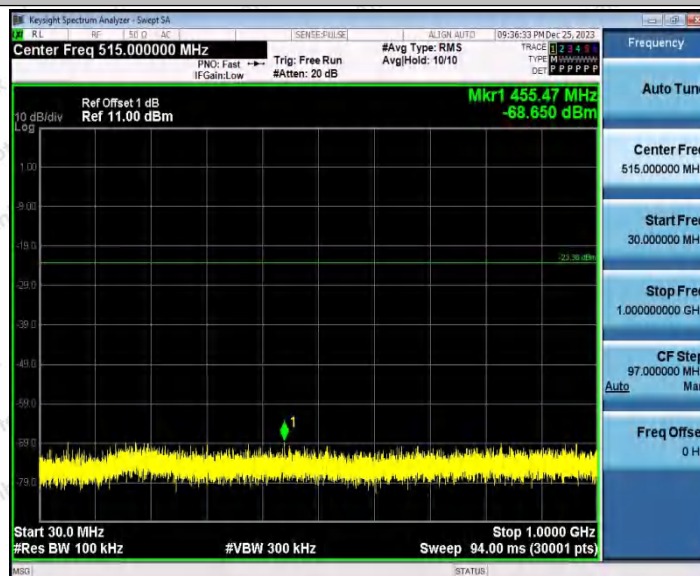




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

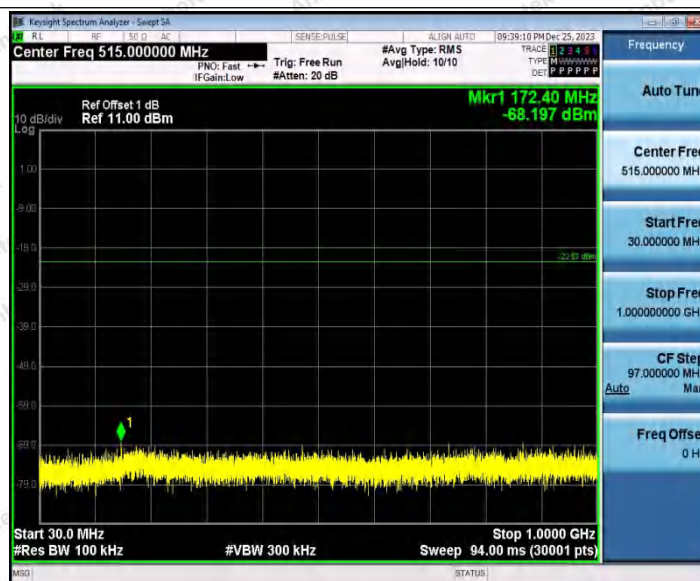
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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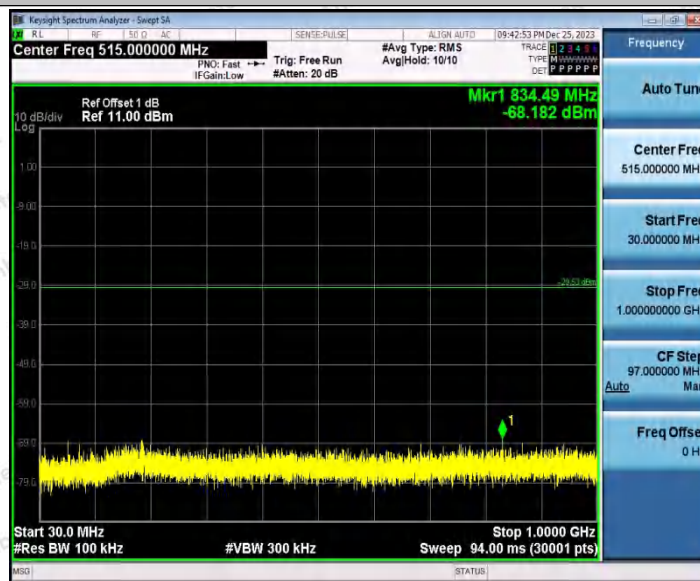
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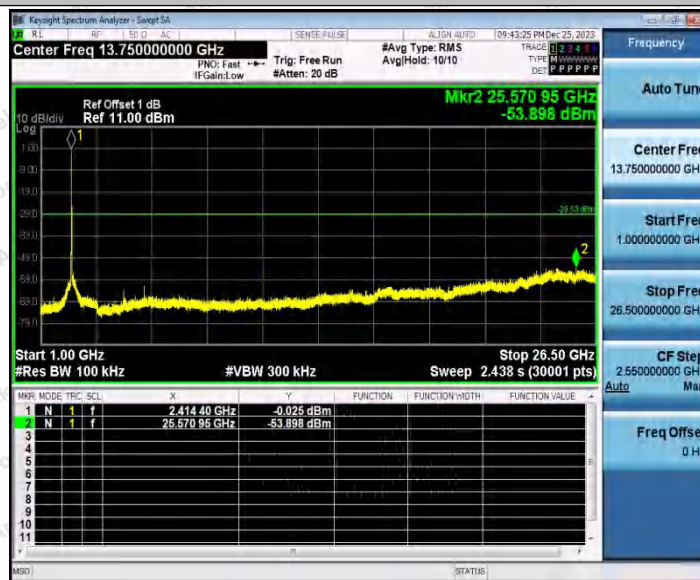
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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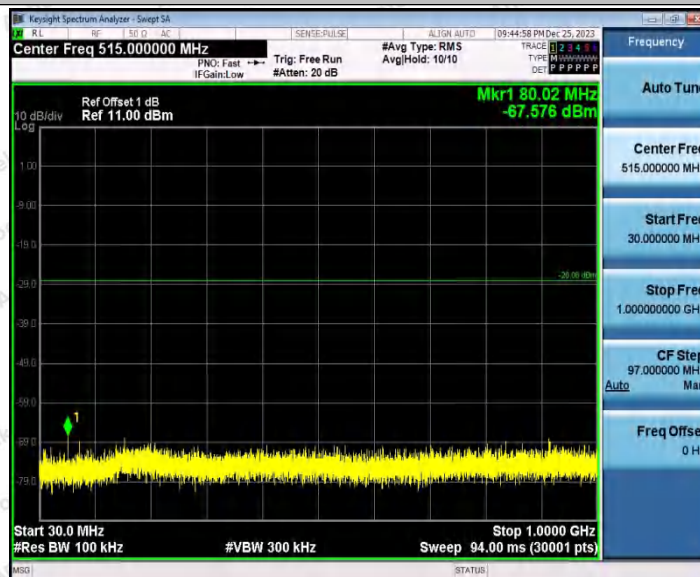


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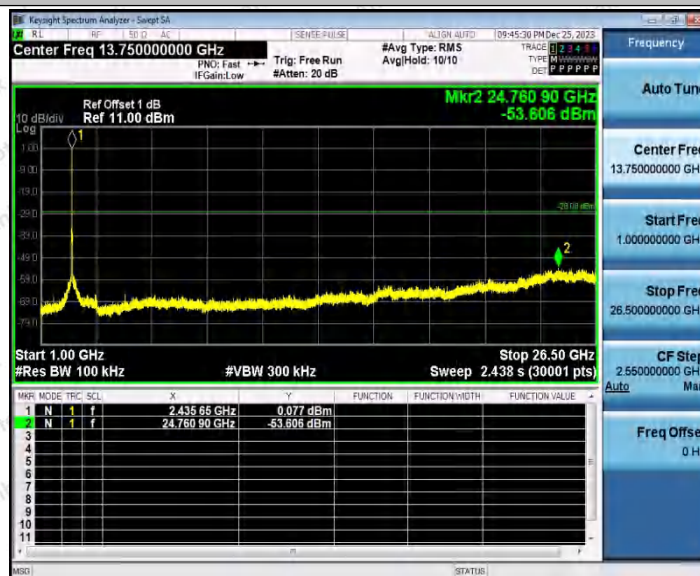




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

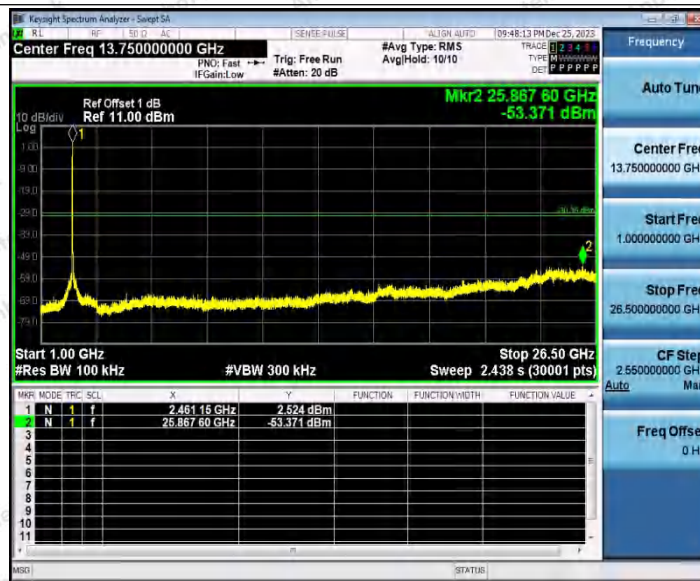
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11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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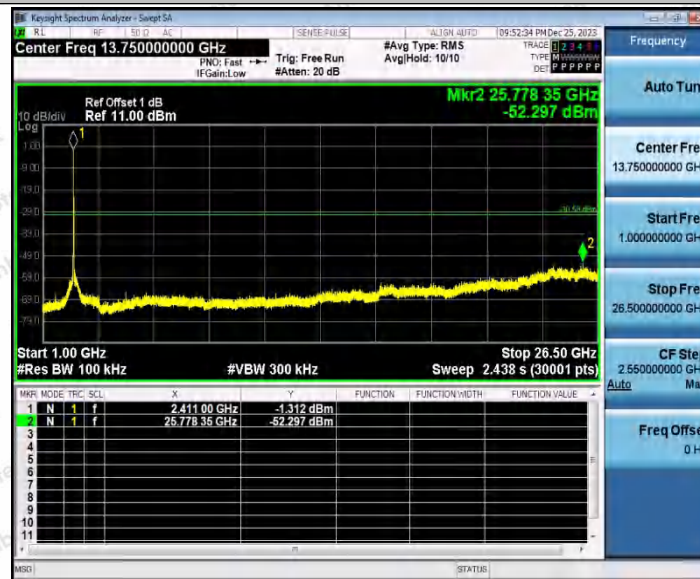
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

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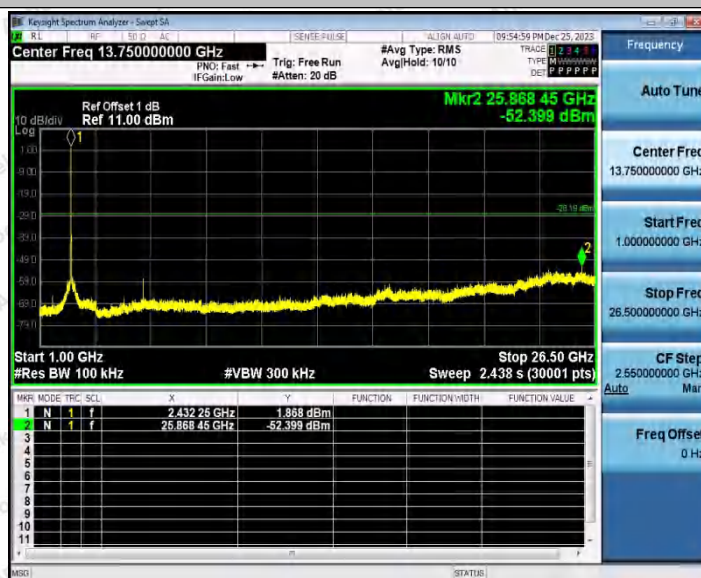


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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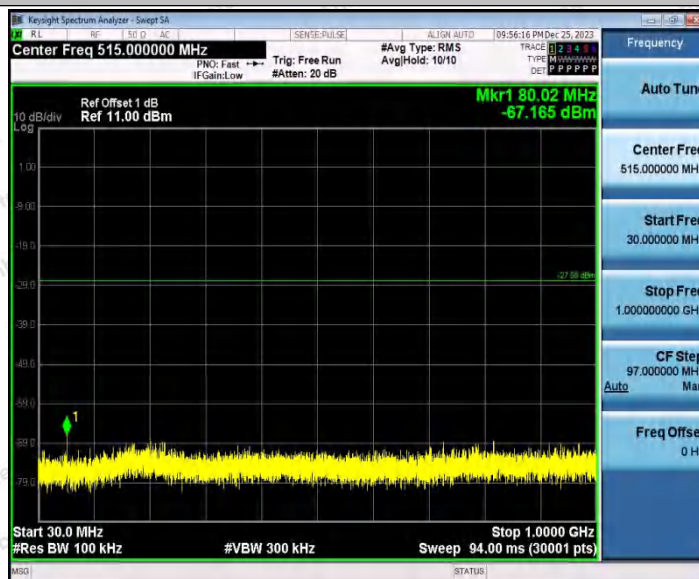
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



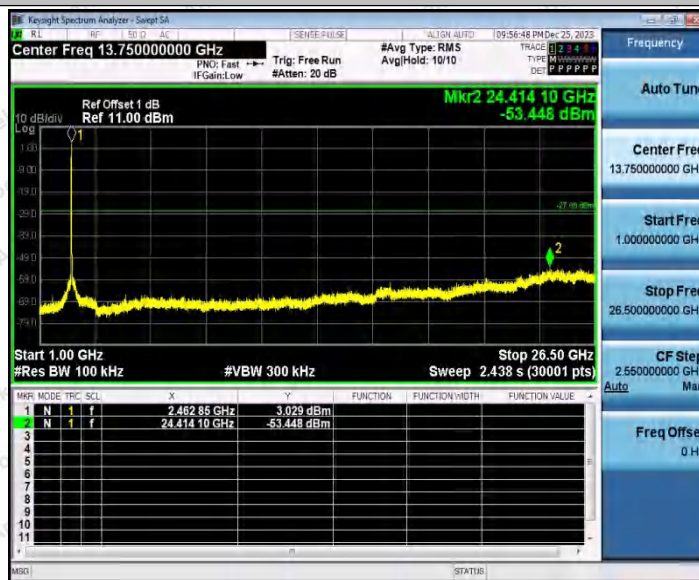
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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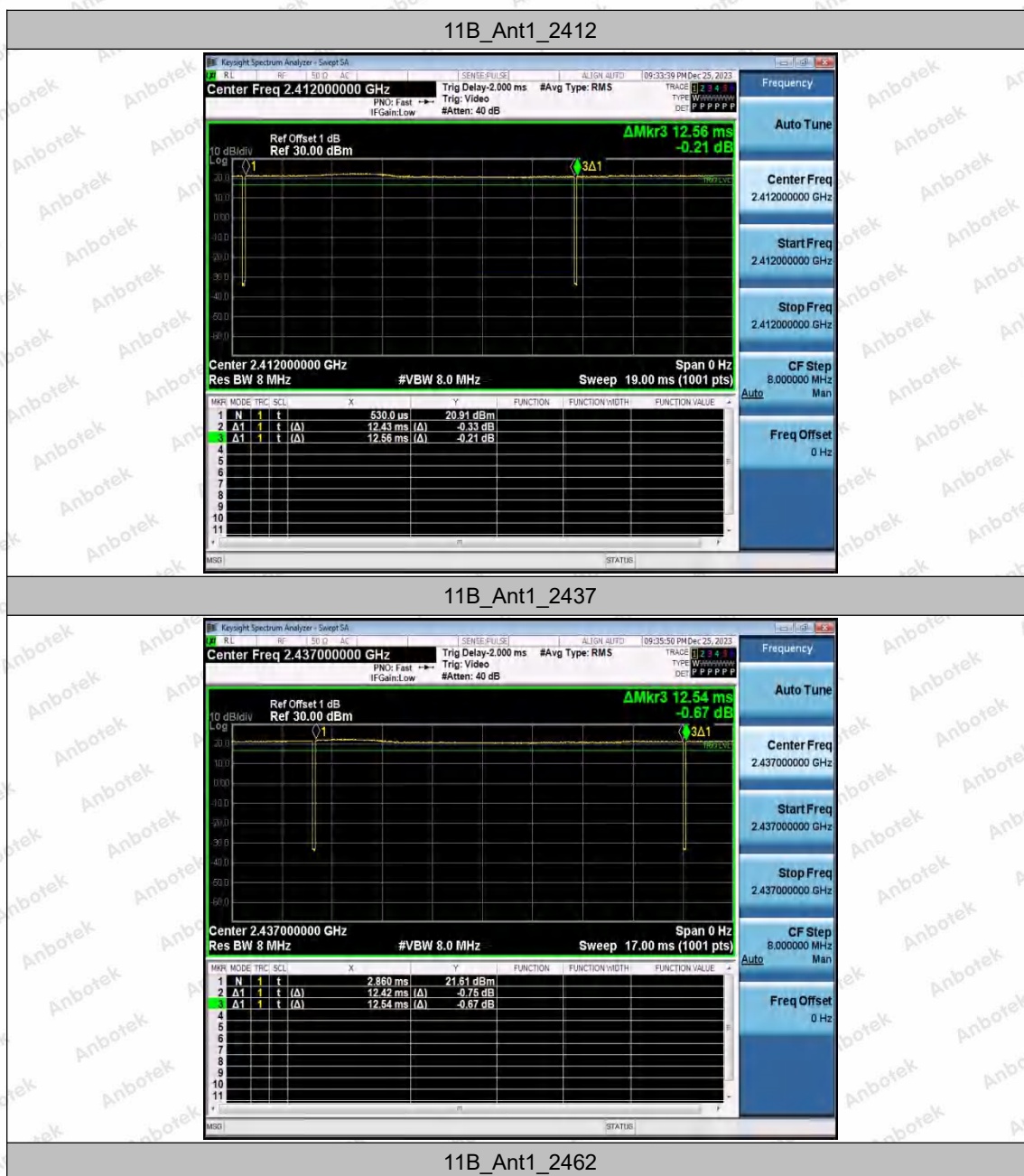
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.56	98.96	0.05
		2437	12.42	12.54	99.04	0.04
		2462	12.41	12.54	98.96	0.05
11G	Ant1	2412	2.07	2.20	94.09	0.26
		2437	2.06	2.19	94.06	0.27
		2462	2.06	2.19	94.06	0.27
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
		2437	1.92	2.05	93.66	0.28
		2462	1.92	2.05	93.66	0.28



Test Graphs



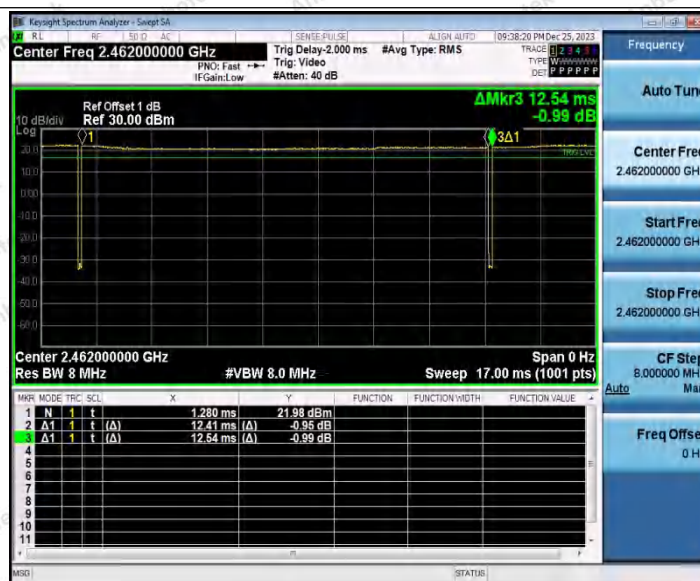
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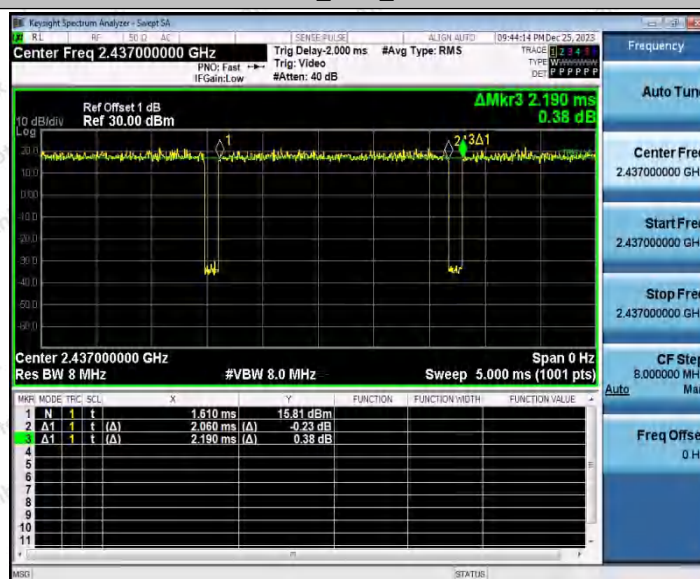




11G_Ant1_2412



11G_Ant1_2437



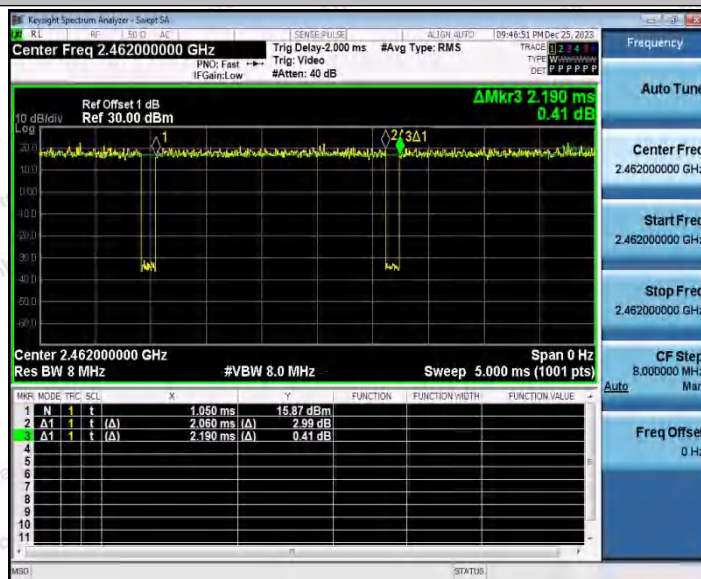
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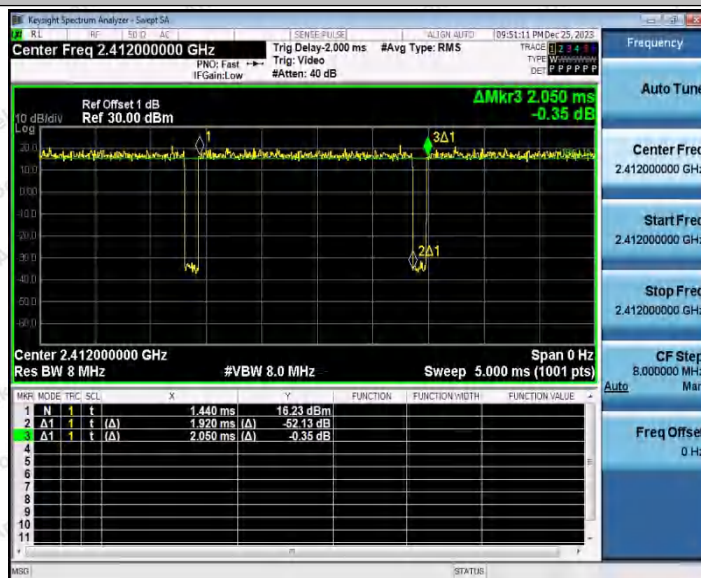
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

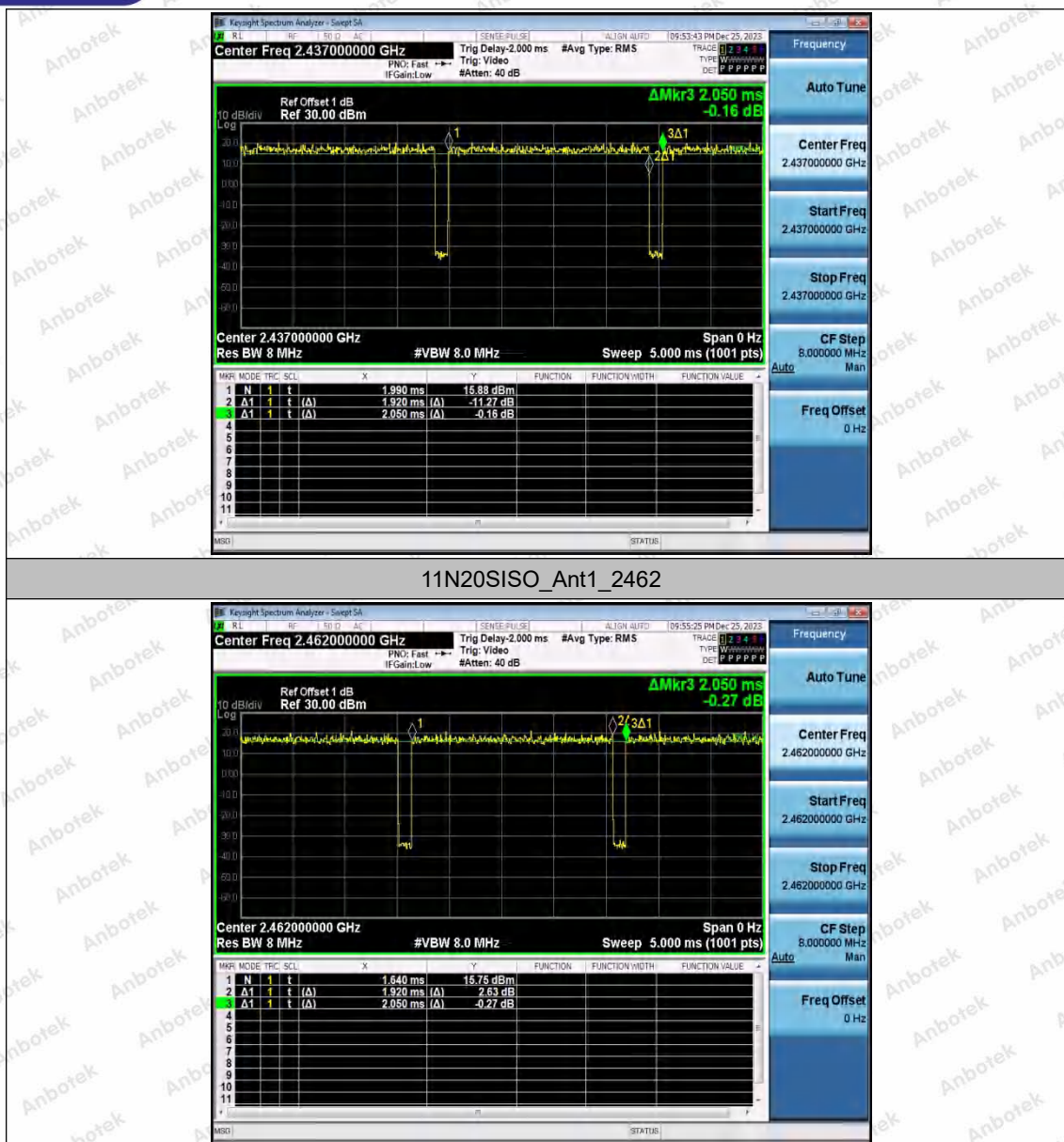
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