

Appendix Test Data

Report No.:	18220WC30166302	Test Sample No.:	1-2-2
Start Test Date:	2023.08.14	Finish Test Date:	2023.08.16
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	48%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	≥0.5	PASS
		2437	9.080	2432.440	2441.520	≥0.5	PASS
		2462	9.040	2457.480	2466.520	≥0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	≥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	17.520	2403.240	2420.760	≥0.5	PASS
		2437	17.280	2428.480	2445.760	≥0.5	PASS
		2462	17.400	2453.240	2470.640	≥0.5	PASS

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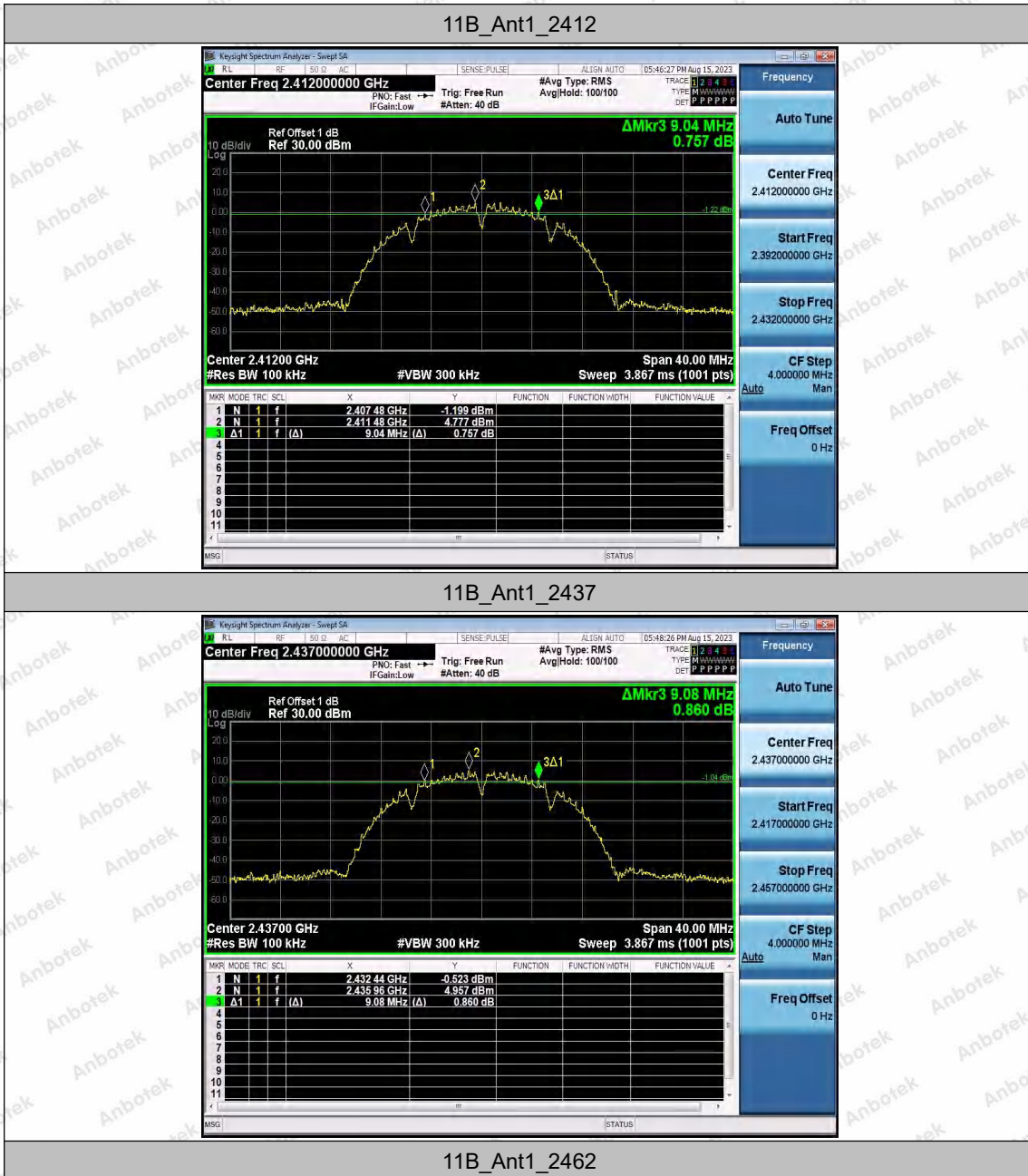
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Test Graphs



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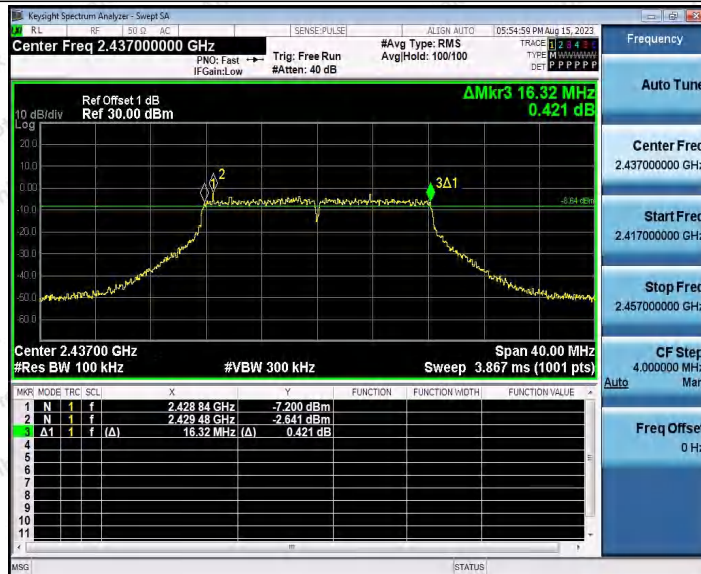




11G_Ant1_2412



11G_Ant1_2437

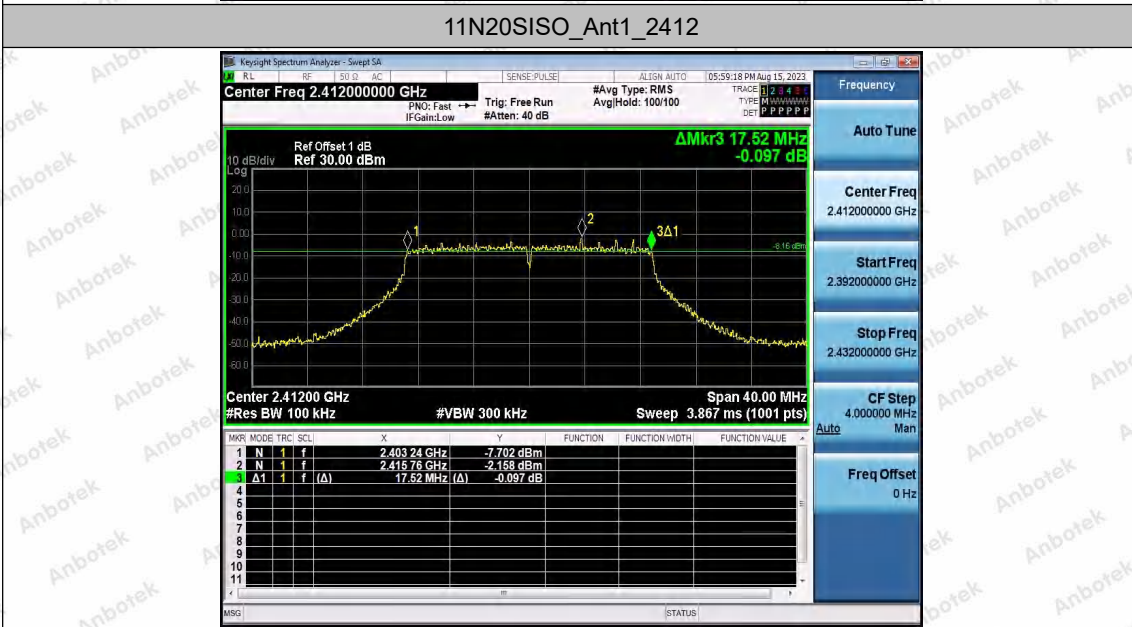
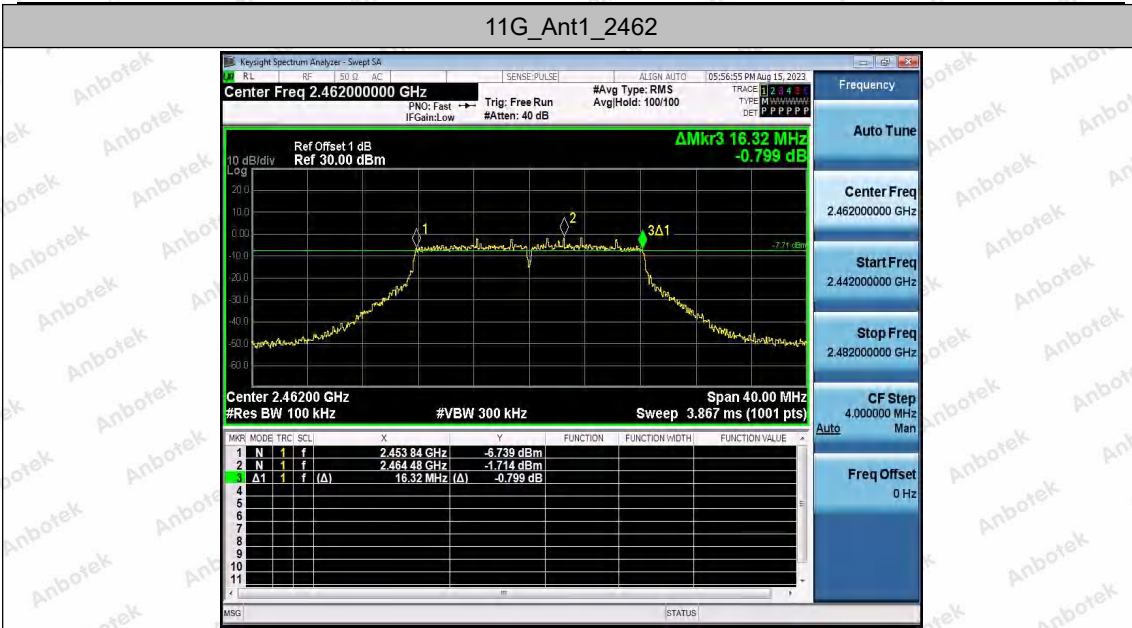


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11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.049	2405.0012	2419.0502
		2437	14.065	2429.9907	2444.0557
		2462	14.064	2454.9857	2469.0497
11G	Ant1	2412	17.181	2403.4390	2420.6200
		2437	17.150	2428.4101	2445.5601
		2462	17.259	2453.4114	2470.6704
11N20SISO	Ant1	2412	18.105	2402.9337	2421.0387
		2437	18.295	2427.8585	2446.1535
		2462	18.204	2452.9298	2471.1338

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11G_Ant1_2412



11G_Ant1_2437

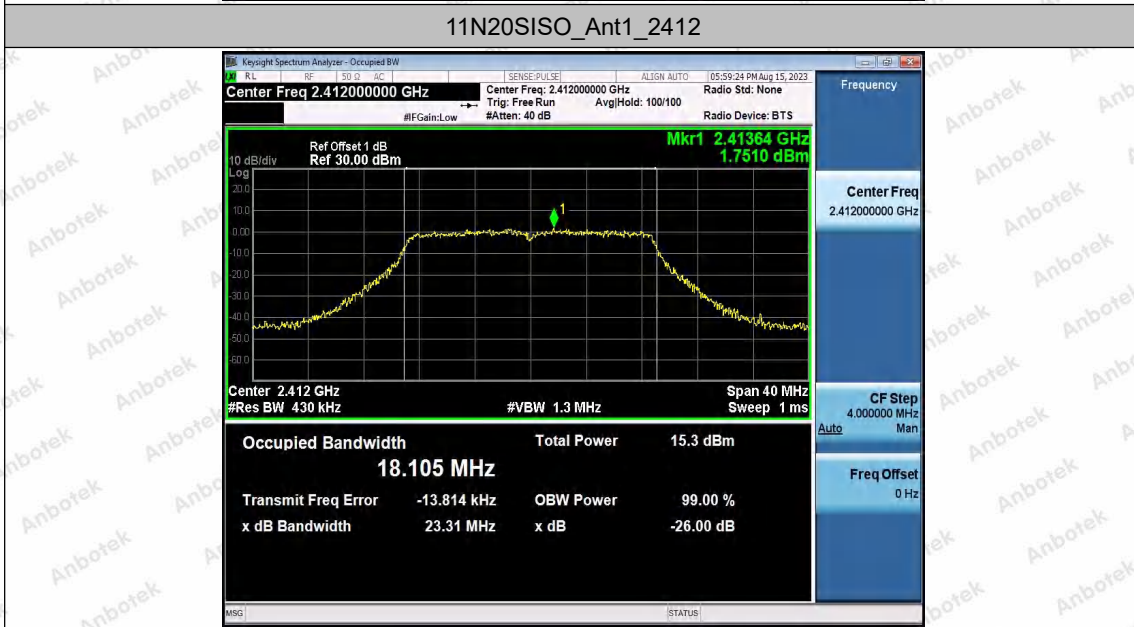
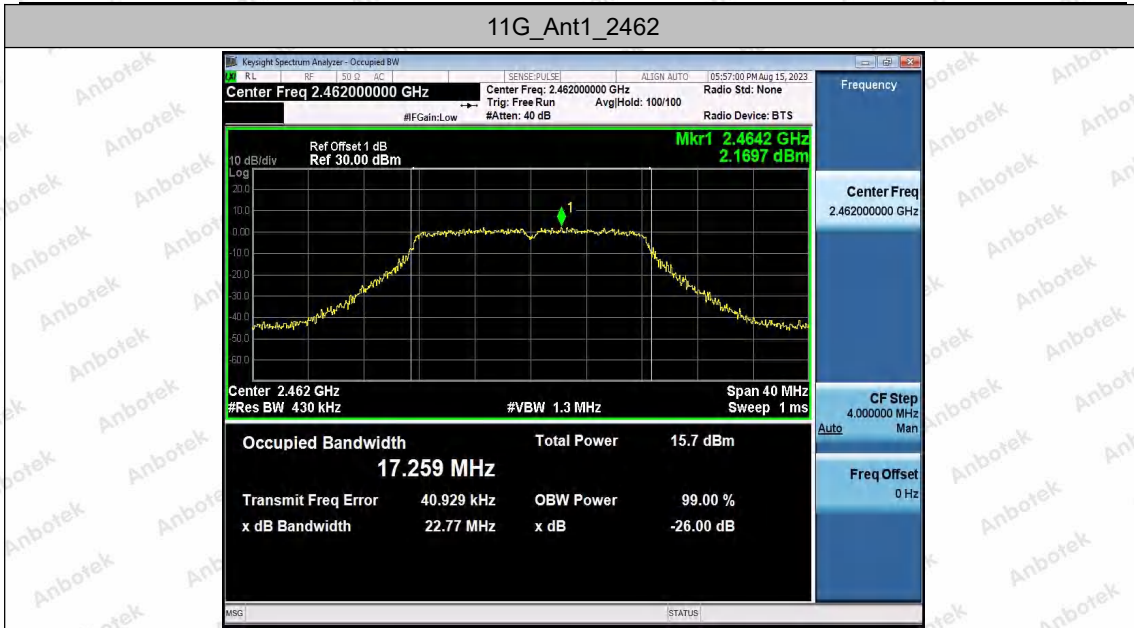


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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.46	≤30.00
		2437	16.95	≤30.00
		2462	17.12	≤30.00
11G	Ant1	2412	16.53	≤30.00
		2437	16.64	≤30.00
		2462	16.90	≤30.00
11N20SISO	Ant1	2412	16.43	≤30.00
		2437	16.65	≤30.00
		2462	16.76	≤30.00

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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.94	≤8.00	PASS
		2437	-8.28	≤8.00	PASS
		2462	-8.31	≤8.00	PASS
11G	Ant1	2412	-16.42	≤8.00	PASS
		2437	-14.50	≤8.00	PASS
		2462	-15.52	≤8.00	PASS
11N20SISO	Ant1	2412	-15.00	≤8.00	PASS
		2437	-15.54	≤8.00	PASS
		2462	-14.47	≤8.00	PASS

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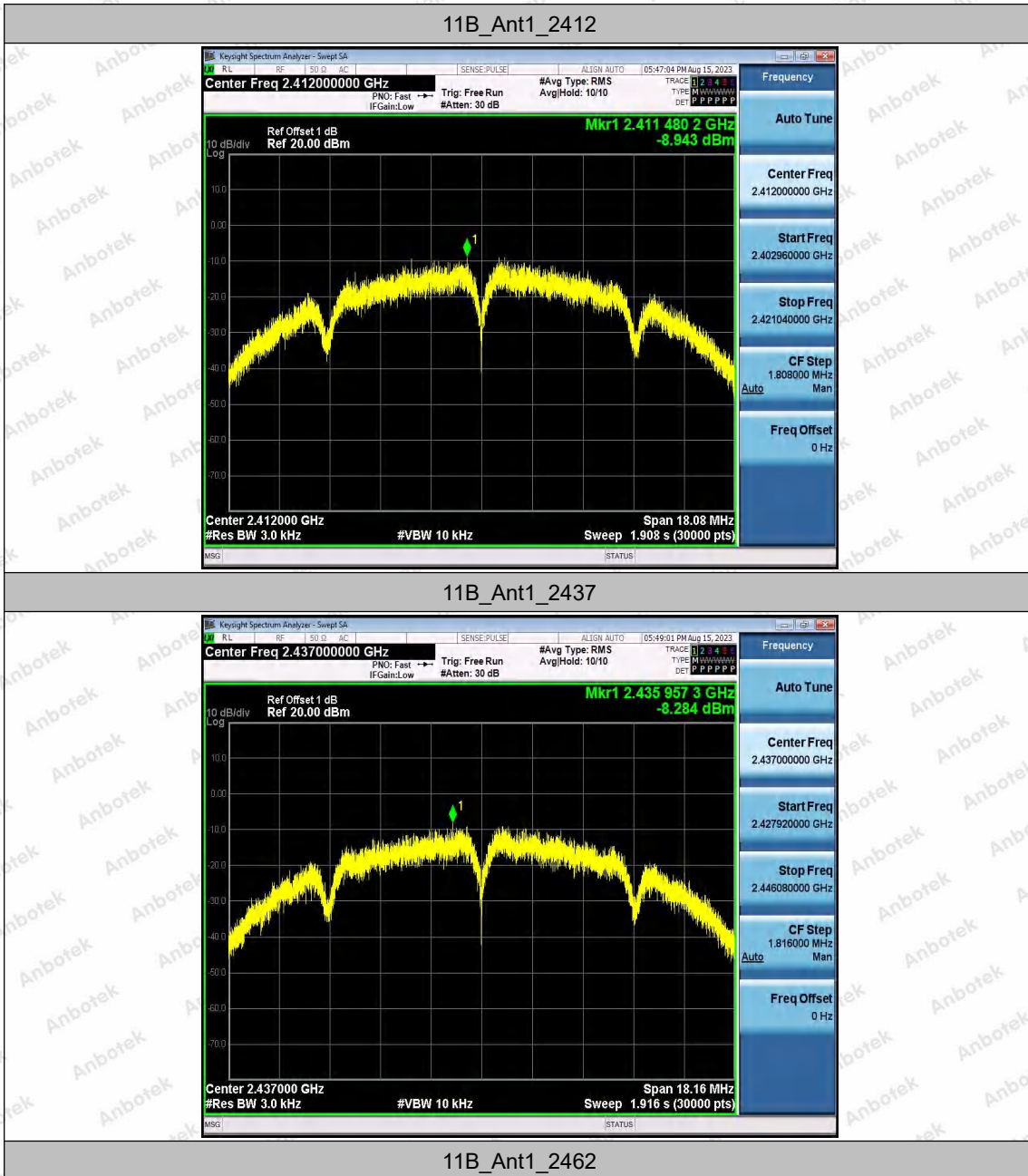
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Test Graphs



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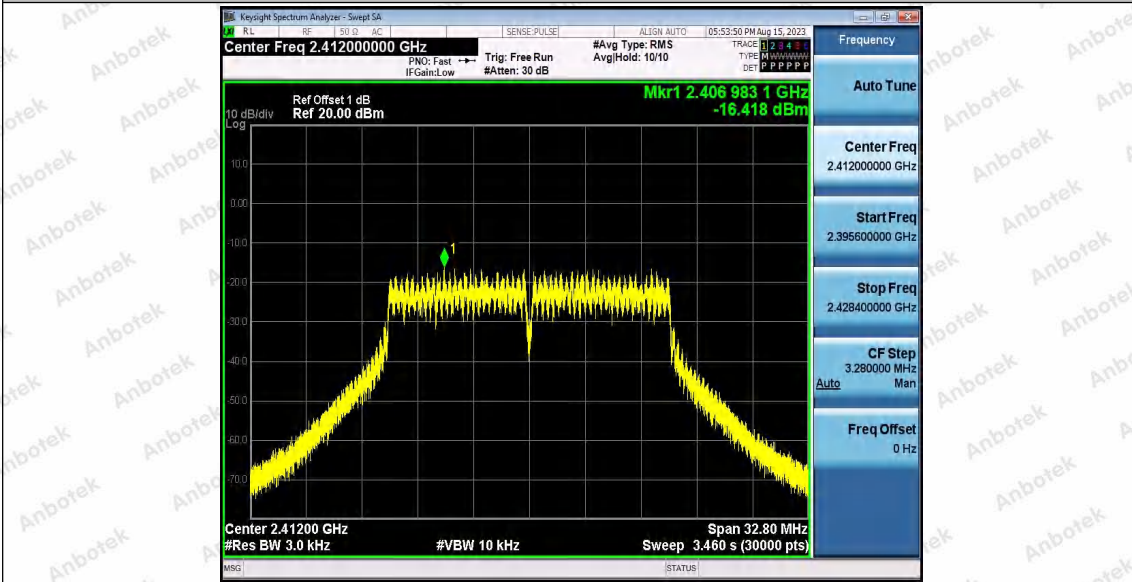
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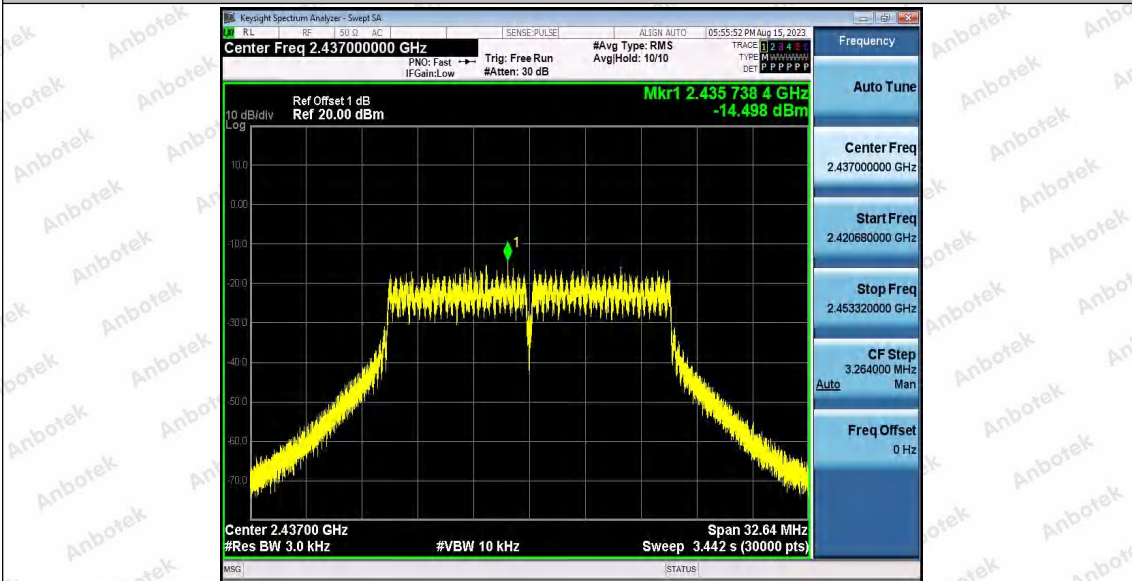




11G_Ant1_2412



11G_Ant1_2437

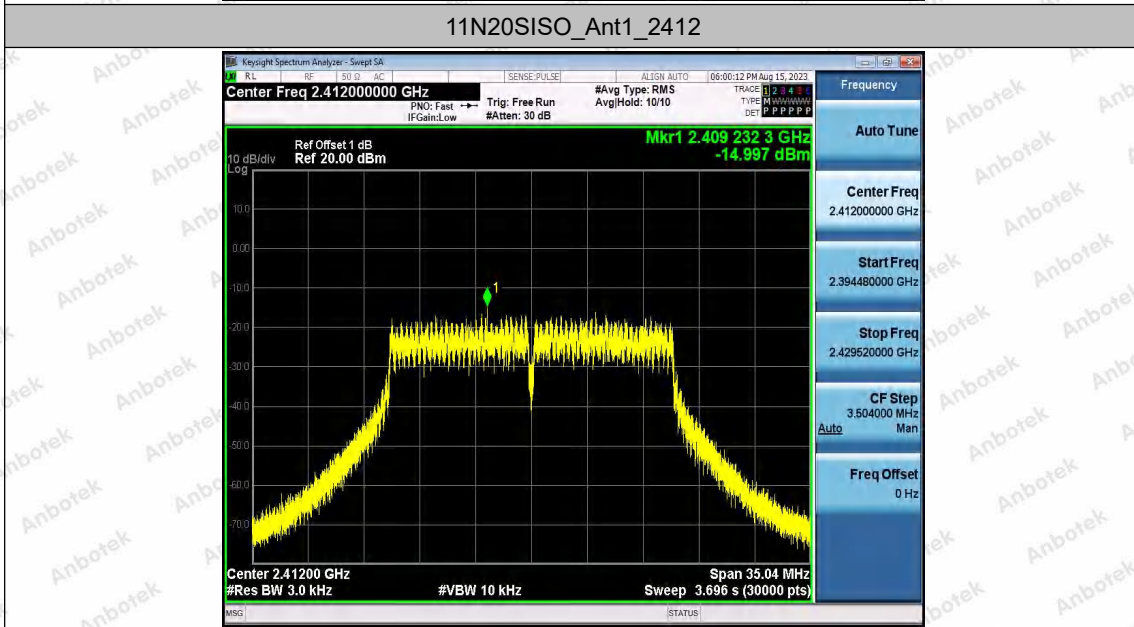
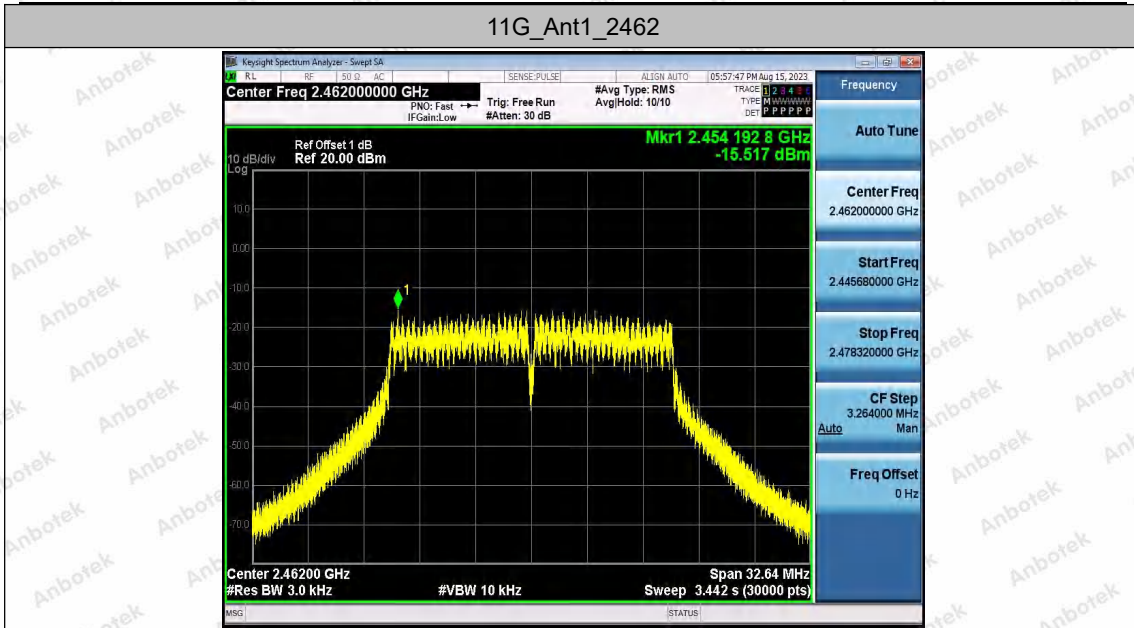


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11N20SISO_Ant1_2437

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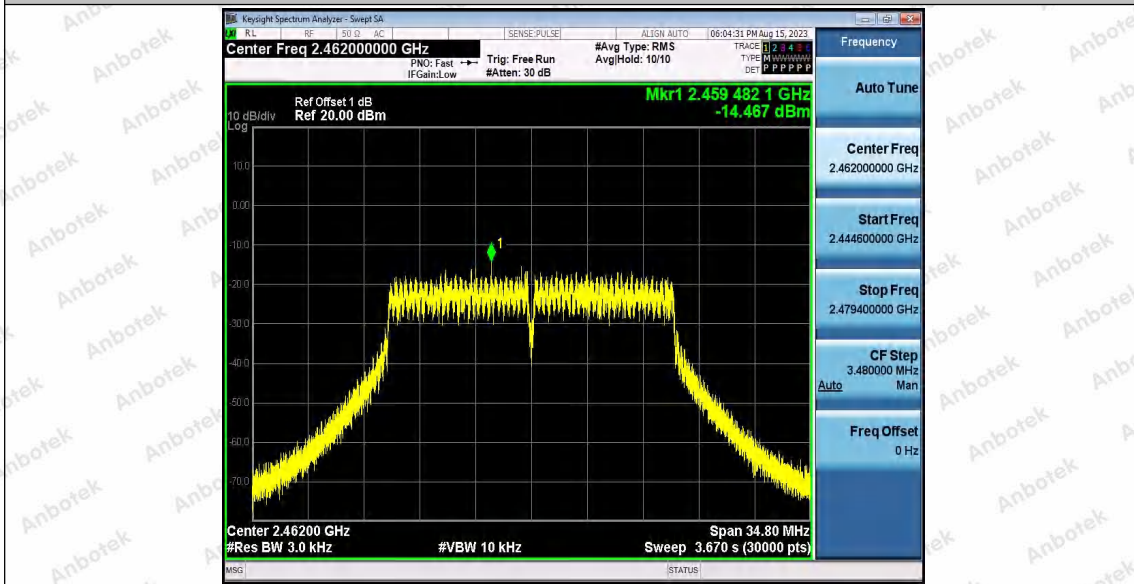
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11N20SISO_Ant1_2462



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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	4.60	-46.15	≤-15.41	PASS
		High	2462	5.32	-53.12	≤-14.68	PASS
11G	Ant1	Low	2412	-1.88	-36.72	≤-21.88	PASS
		High	2462	-2.12	-53.41	≤-22.12	PASS
11N20SISO	Ant1	Low	2412	-2.75	-37.27	≤-22.75	PASS
		High	2462	-2.12	-54.18	≤-22.12	PASS

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Test Graphs



11G_Ant1_Low_2412

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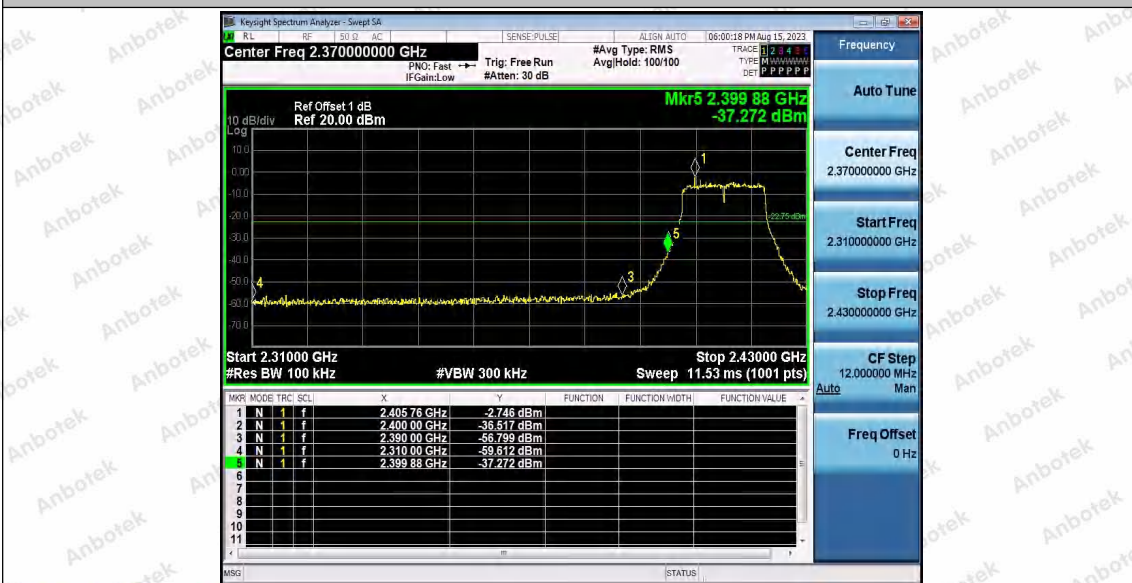




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

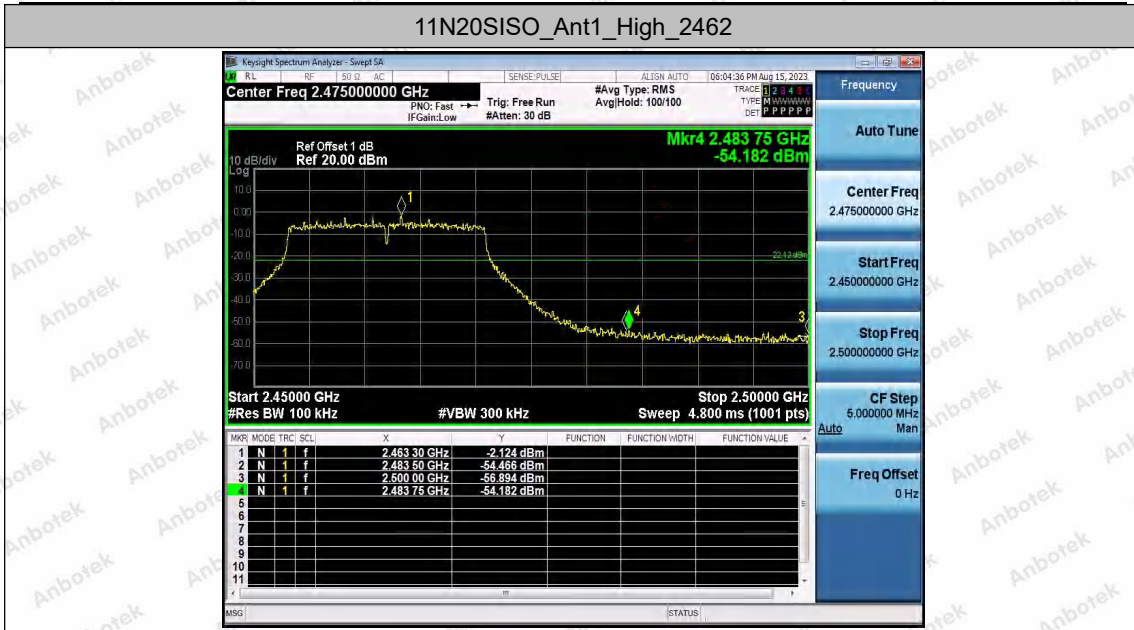


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.00	5.00	---	PASS
			30~1000	5.00	-67.99	≤-15	PASS
			1000~26500	5.00	-53.74	≤-15	PASS
		2437	Reference	4.61	4.61	---	PASS
			30~1000	4.61	-66.85	≤-15.39	PASS
			1000~26500	4.61	-52.96	≤-15.39	PASS
		2462	Reference	5.57	5.57	---	PASS
			30~1000	5.57	-67.21	≤-14.43	PASS
			1000~26500	5.57	-53.41	≤-14.43	PASS
11G	Ant1	2412	Reference	-2.58	-2.58	---	PASS
			30~1000	-2.58	-64.00	≤-22.58	PASS
			1000~26500	-2.58	-53.25	≤-22.58	PASS
		2437	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-65.16	≤-25.13	PASS
			1000~26500	-5.13	-53.36	≤-25.13	PASS
		2462	Reference	-4.99	-4.99	---	PASS
			30~1000	-4.99	-64.67	≤-24.99	PASS
			1000~26500	-4.99	-53.37	≤-24.99	PASS
11N20SISO	Ant1	2412	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-65.27	≤-22.55	PASS
			1000~26500	-2.55	-53.85	≤-22.55	PASS
		2437	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-64.34	≤-24.39	PASS
			1000~26500	-4.39	-53.23	≤-24.39	PASS
		2462	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-65.77	≤-25.64	PASS
			1000~26500	-5.64	-52.87	≤-25.64	PASS

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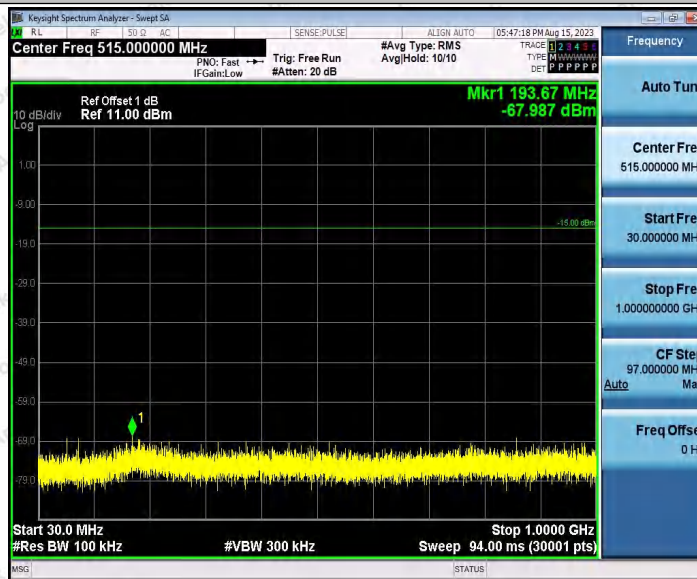


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



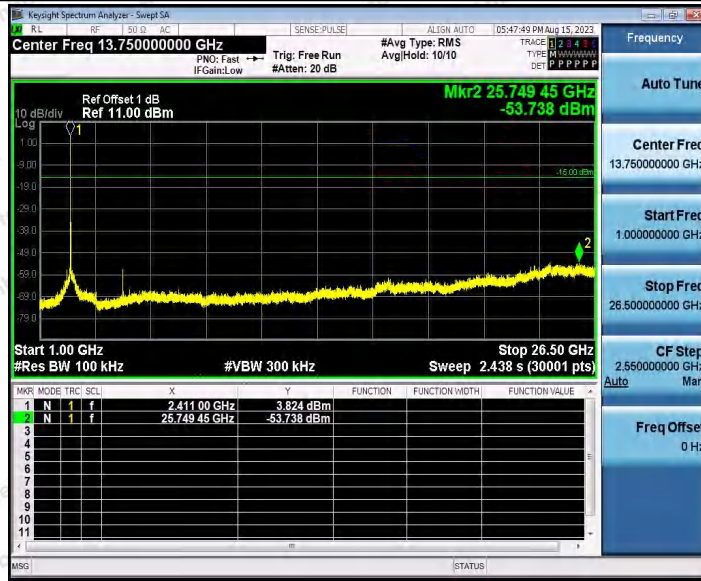
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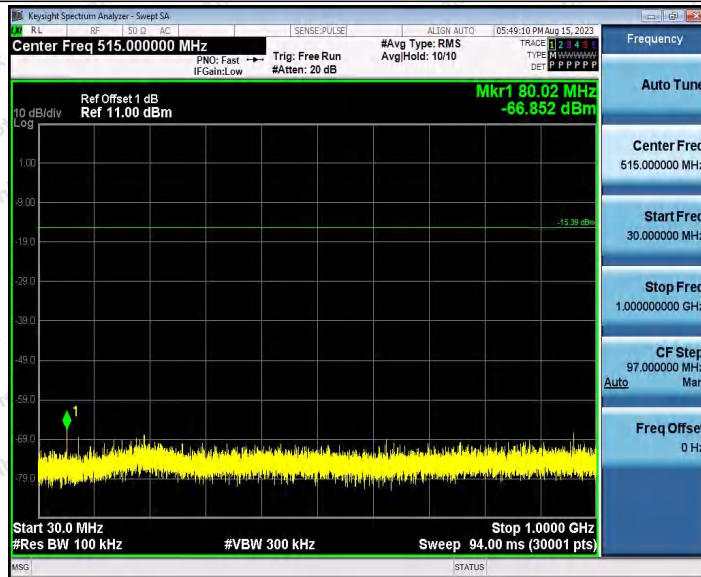




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11B_Ant1_2437_30~1000



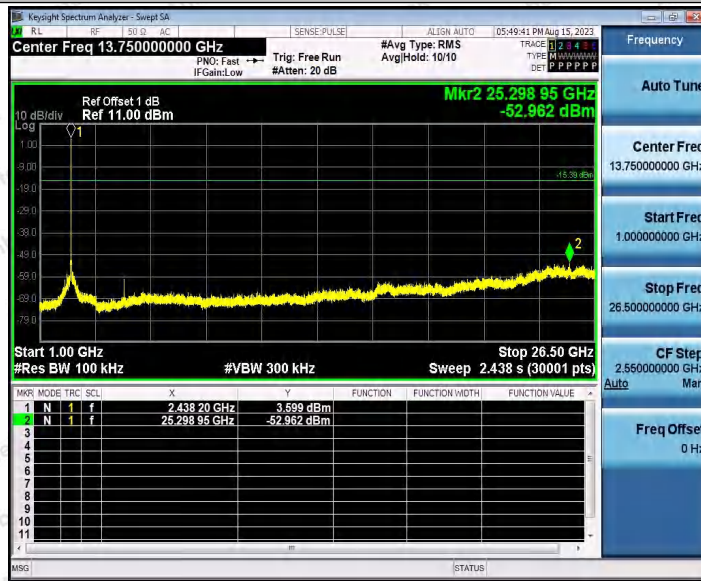
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



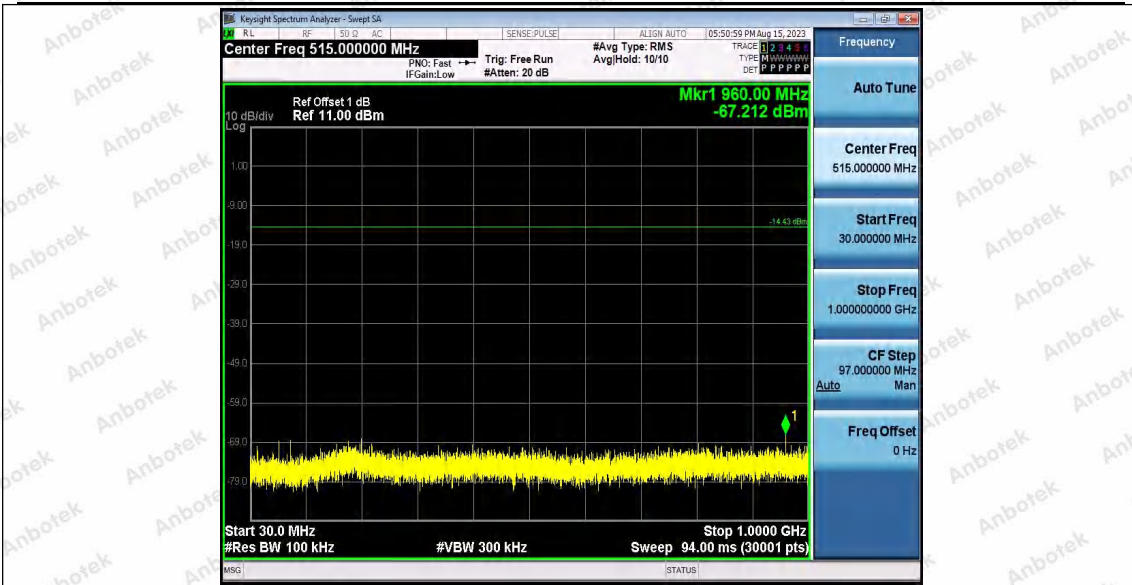
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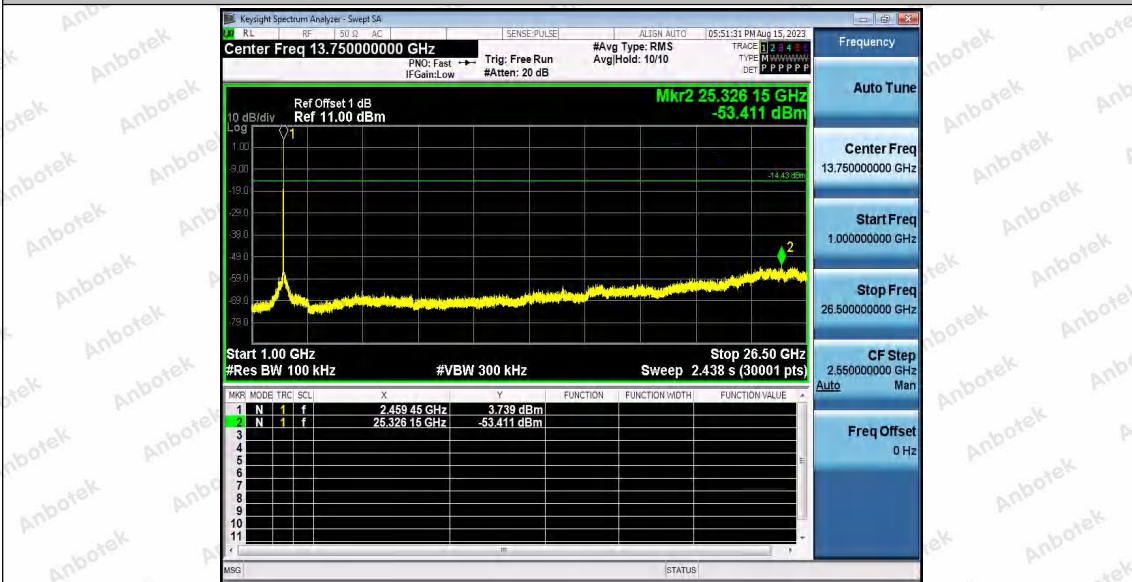
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



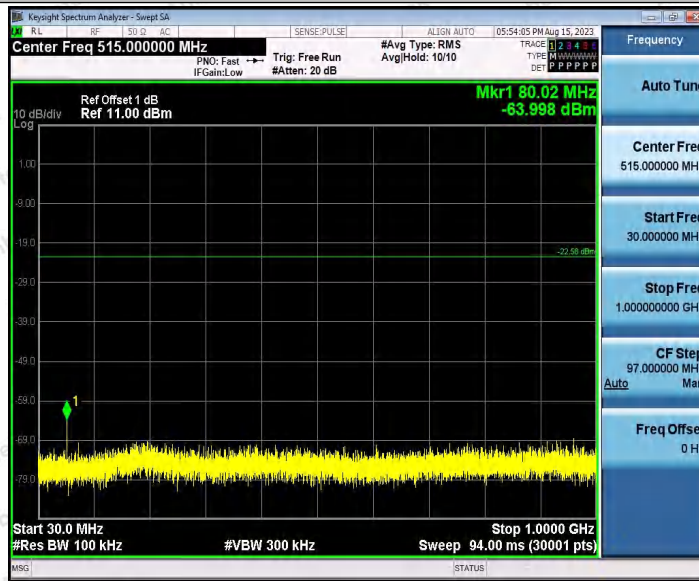
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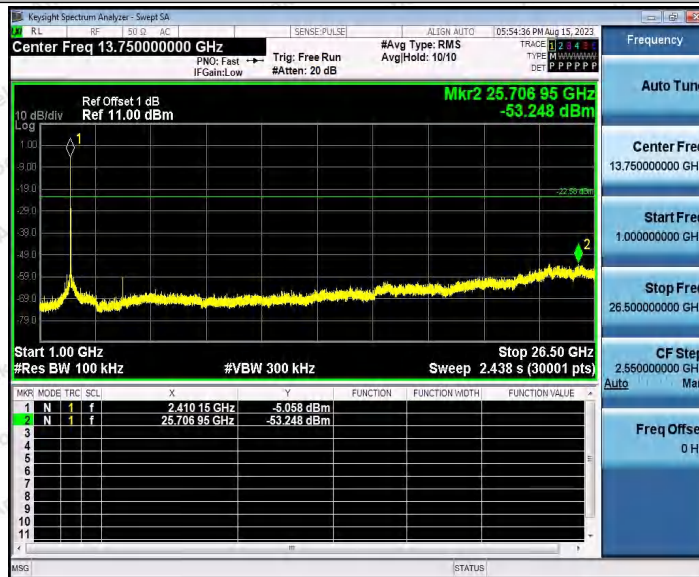
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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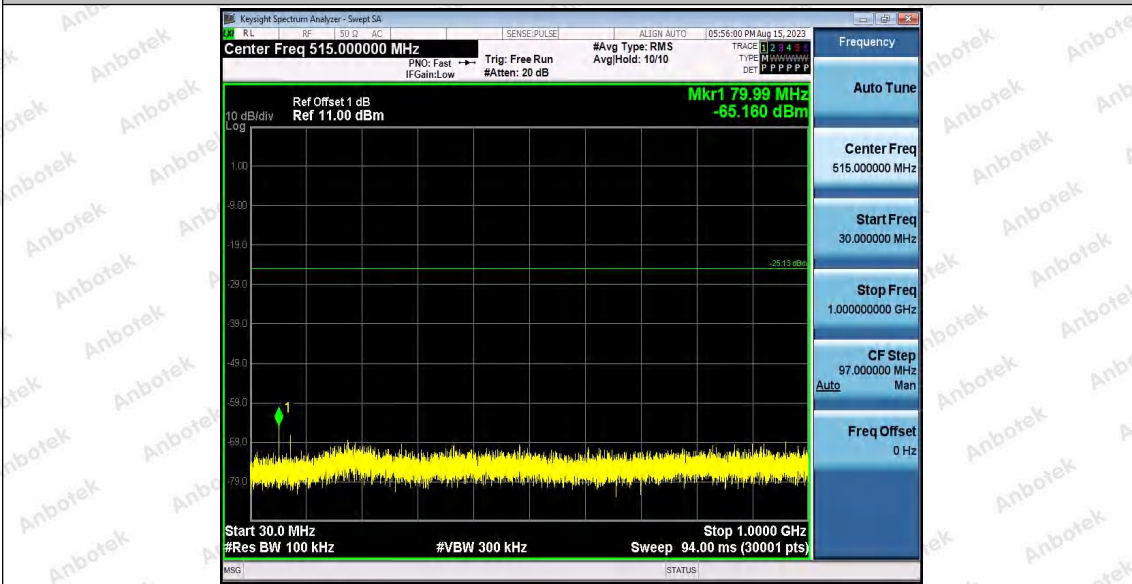
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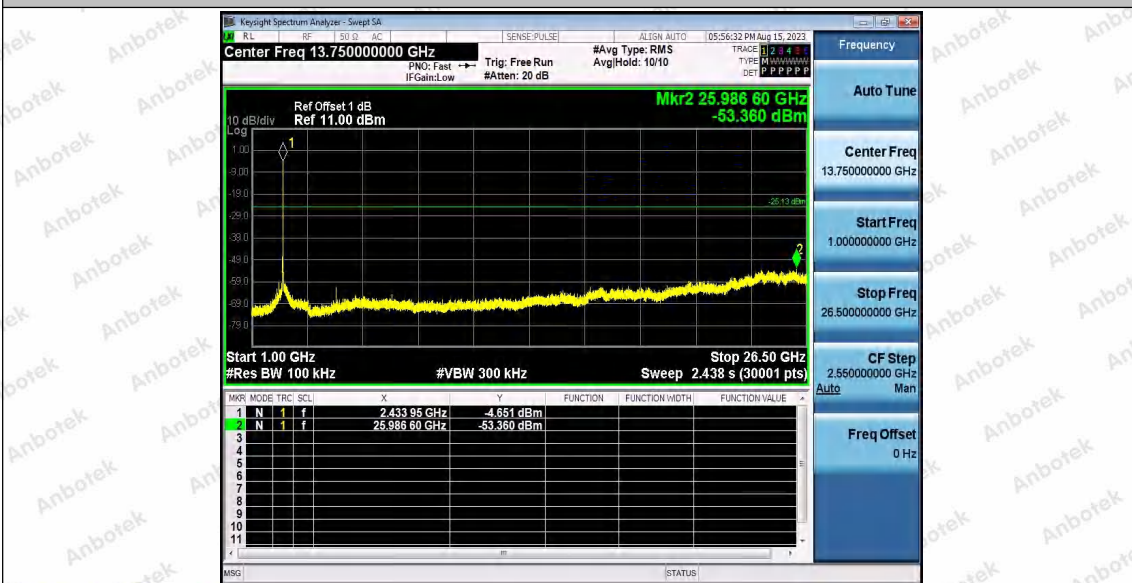




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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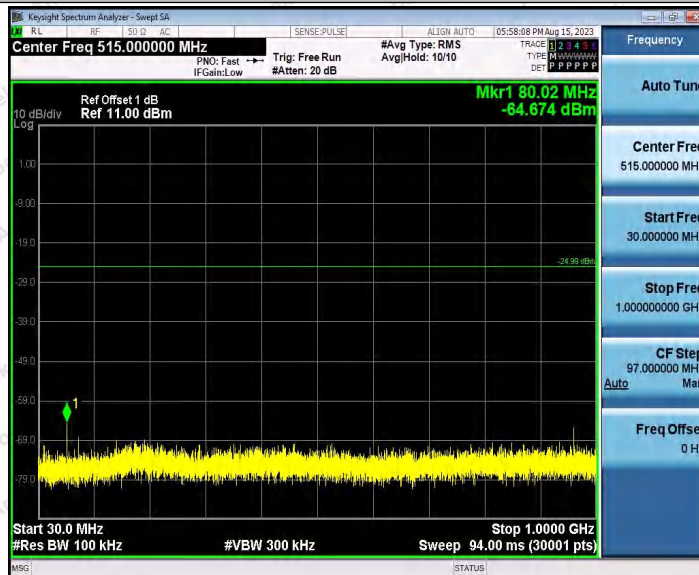
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



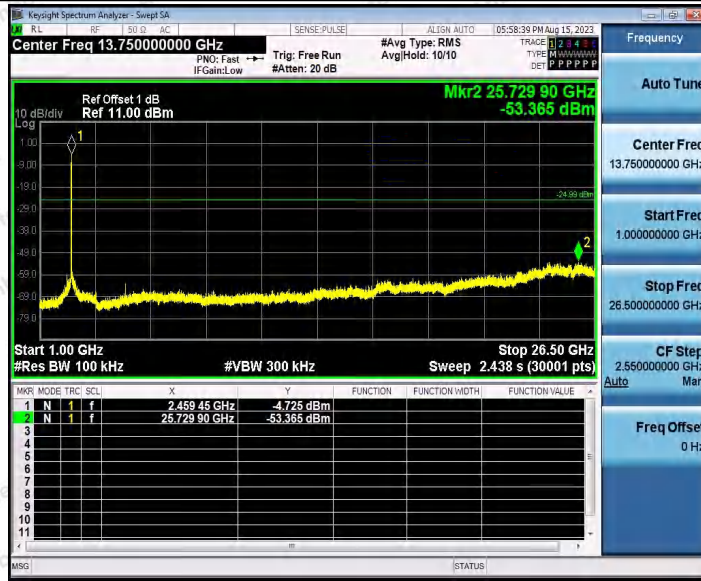
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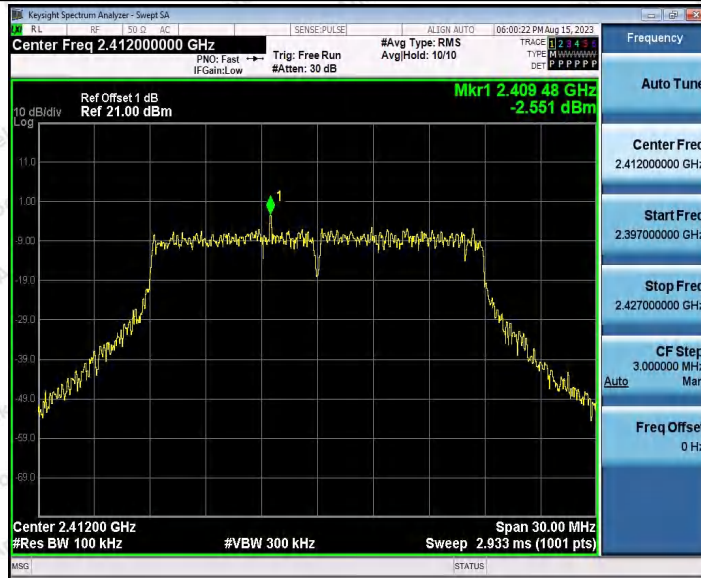
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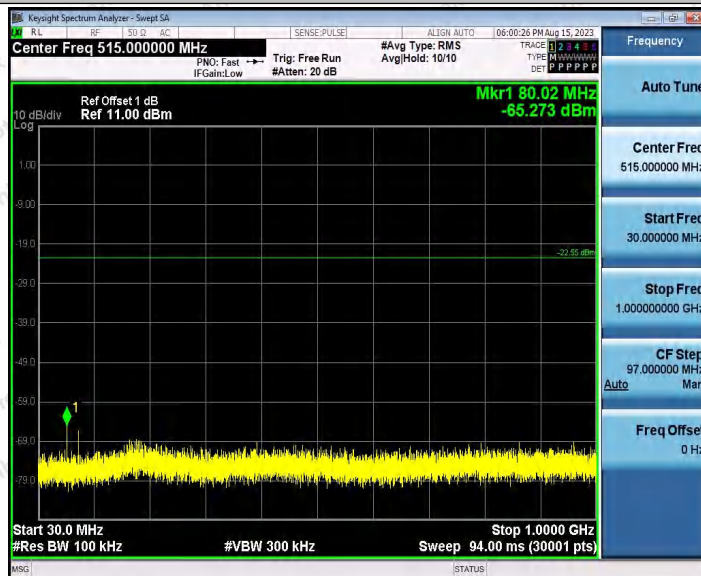




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11N20SISO_Ant1_2412_30~1000



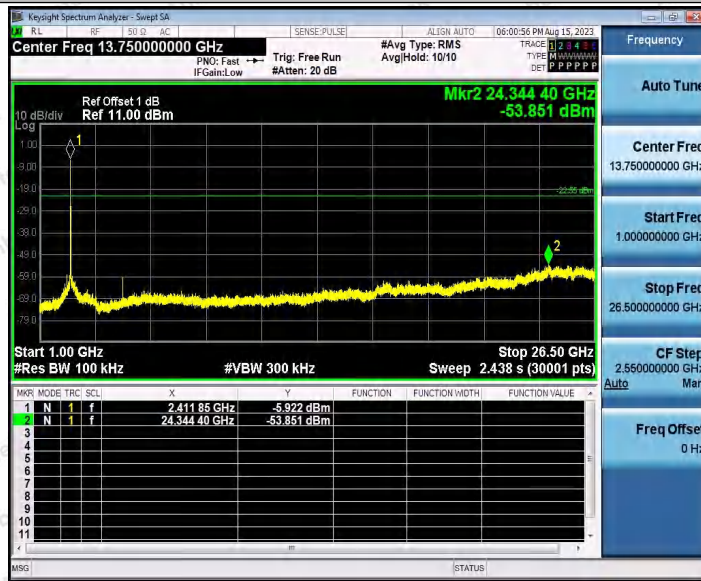
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



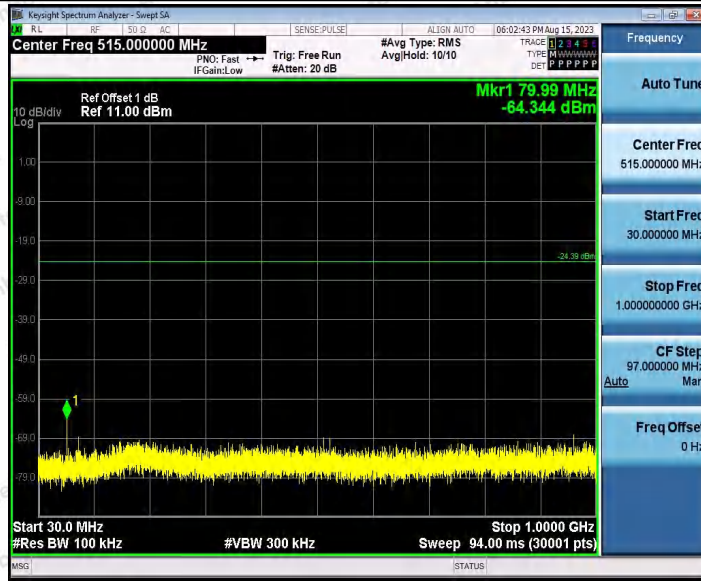
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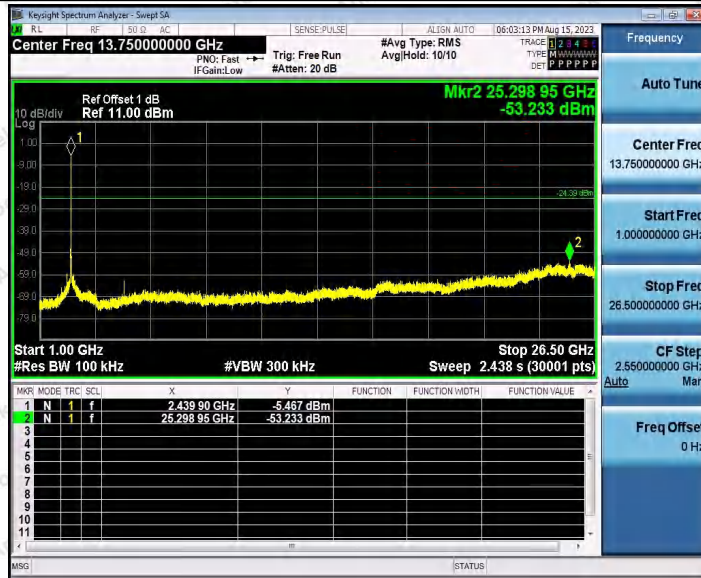
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

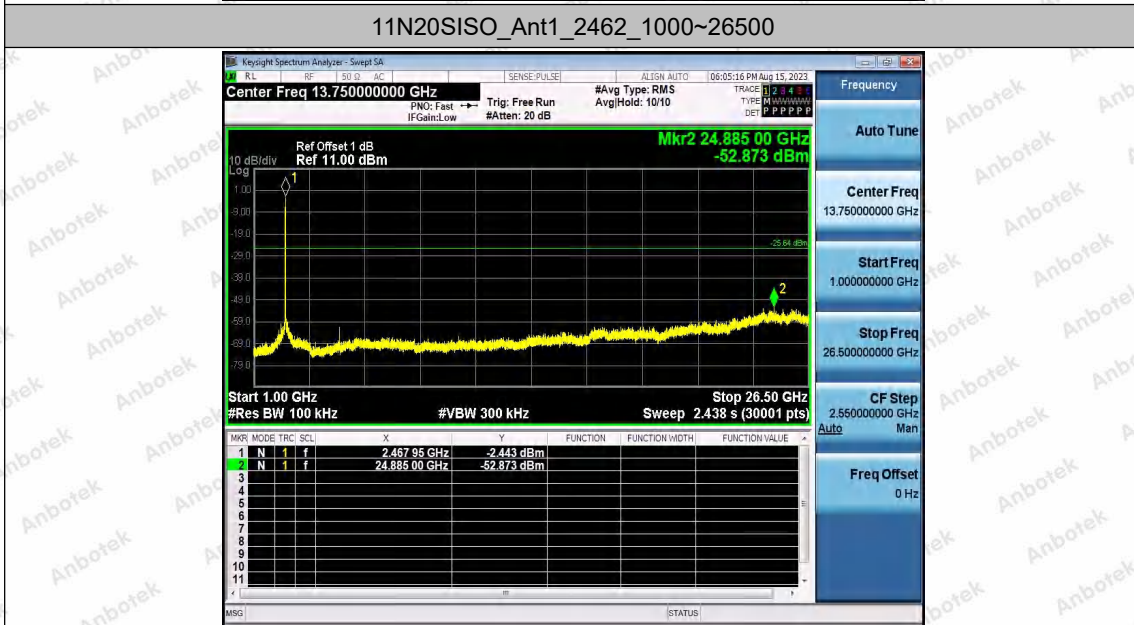
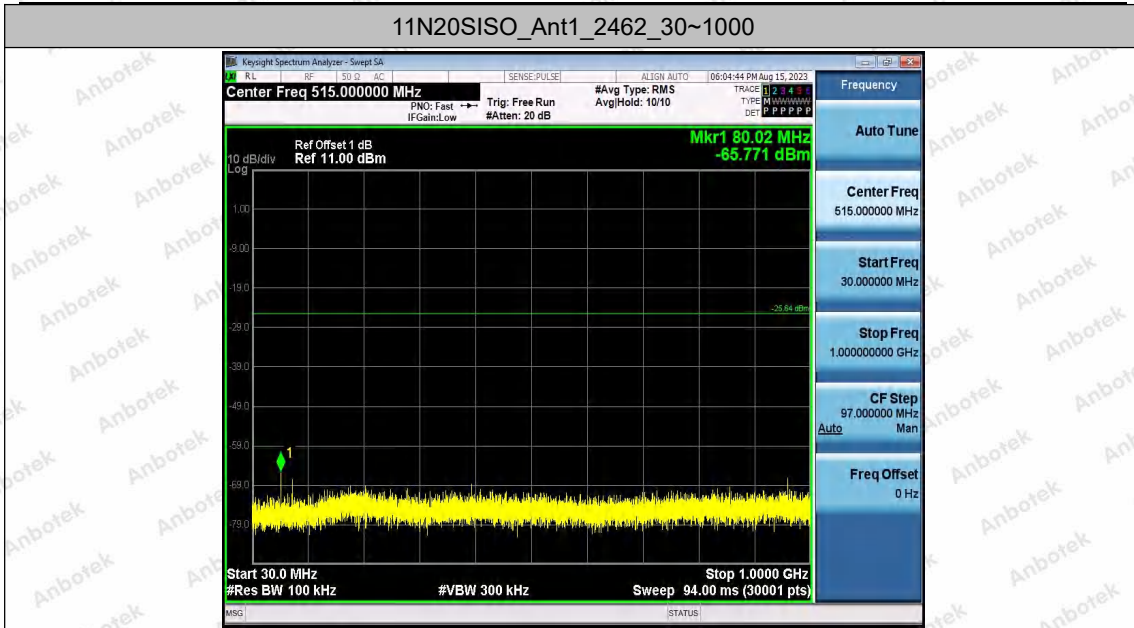


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.55	98.96	0.05
		2437	12.42	12.55	98.96	0.05
		2462	12.42	12.55	98.96	0.05
11G	Ant1	2412	2.06	2.19	94.06	0.27
		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	1.93	2.06	93.69	0.28
		2462	1.92	2.05	93.66	0.28

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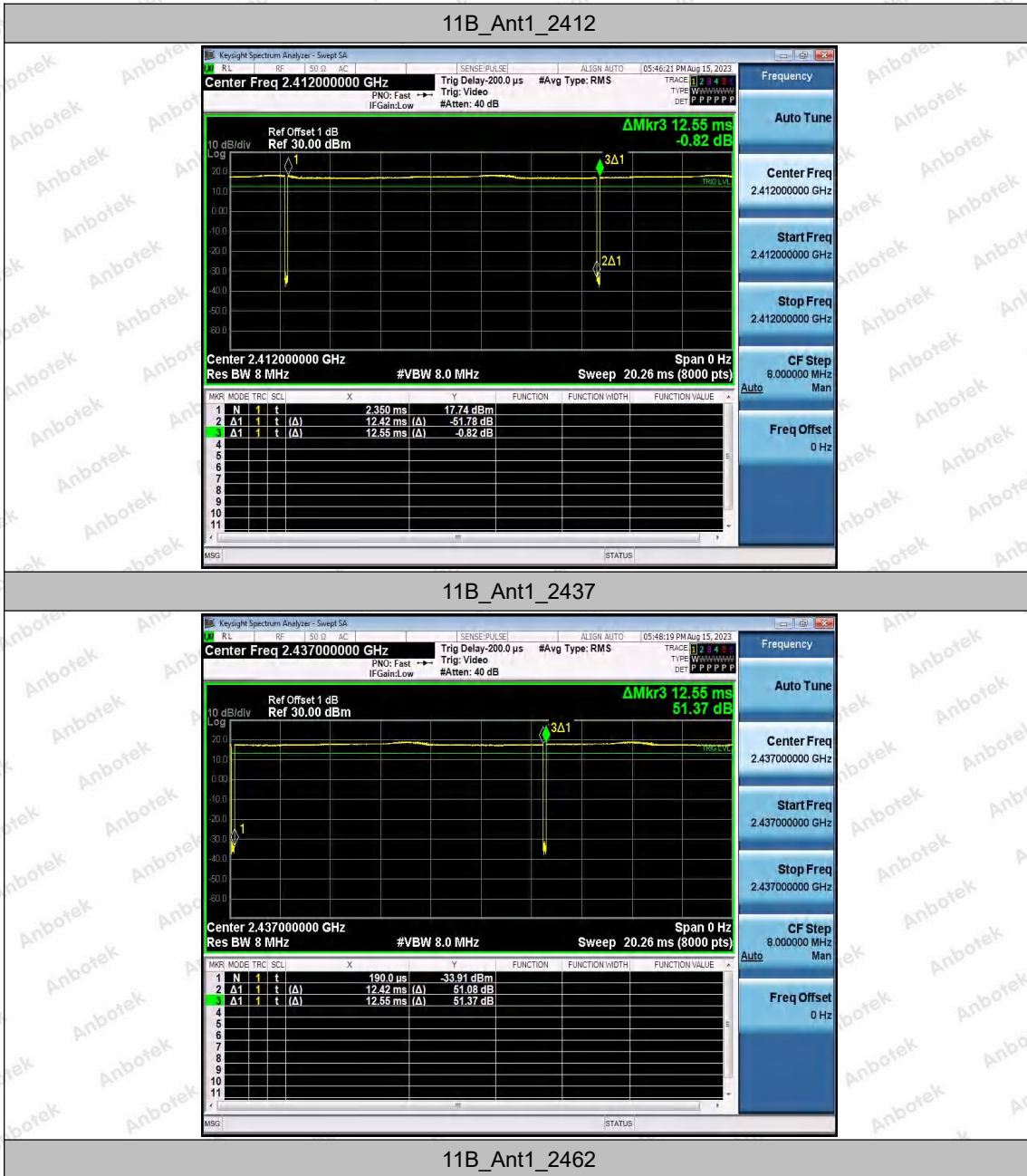
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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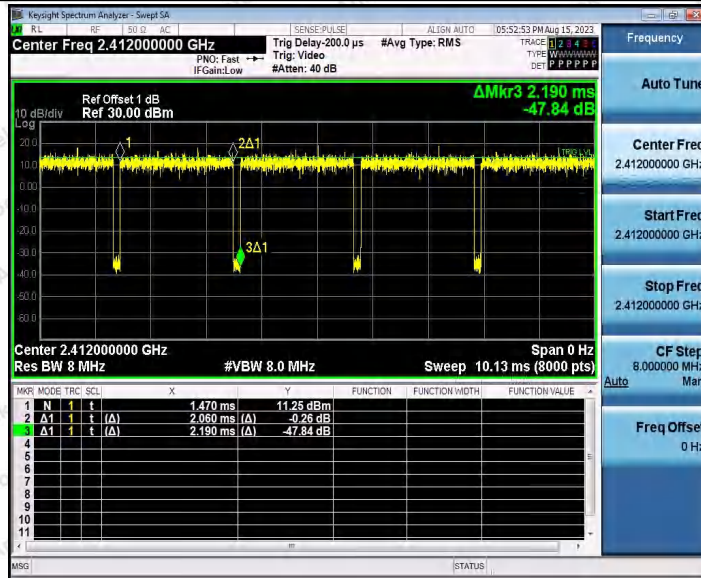


Test Graphs

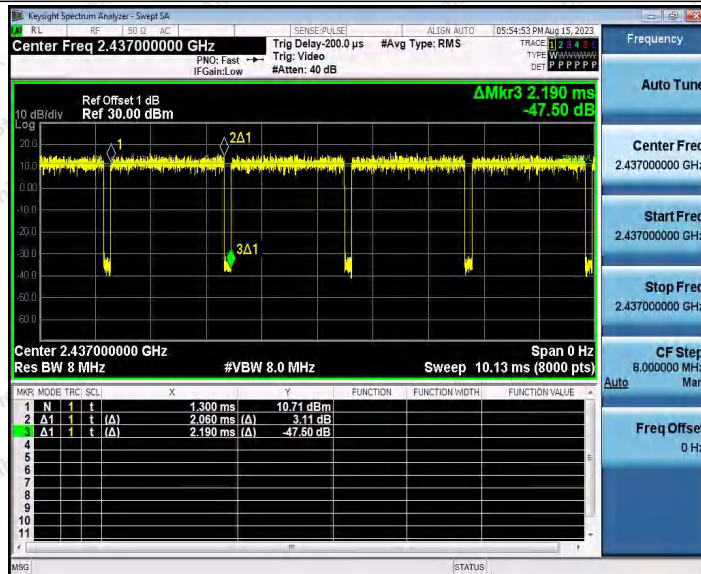




11G_Ant1_2412



11G_Ant1_2437

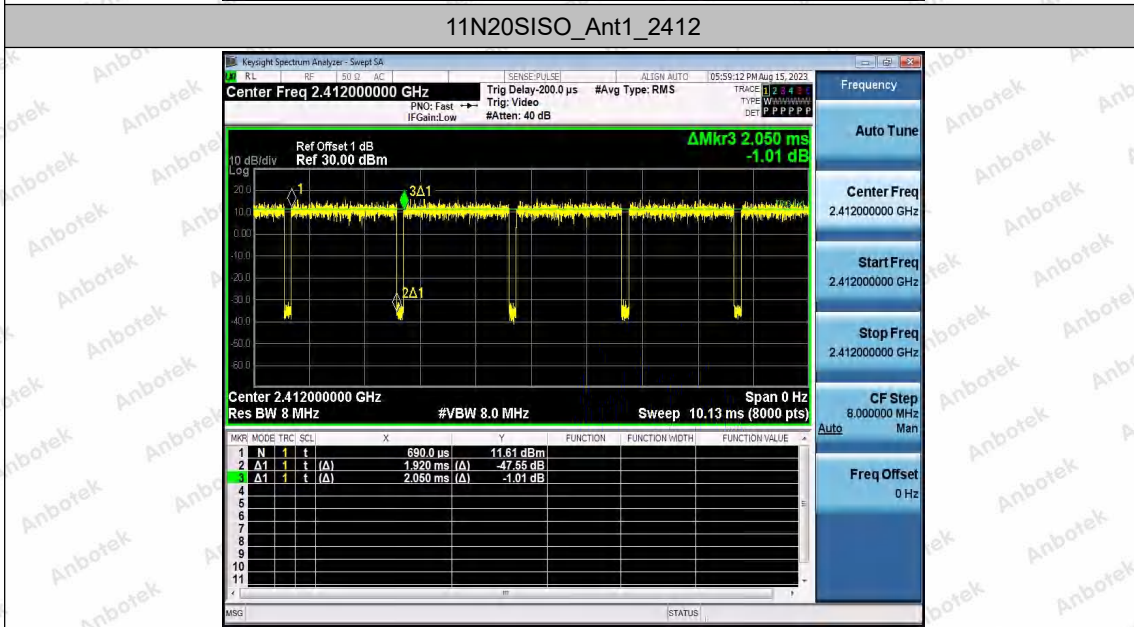
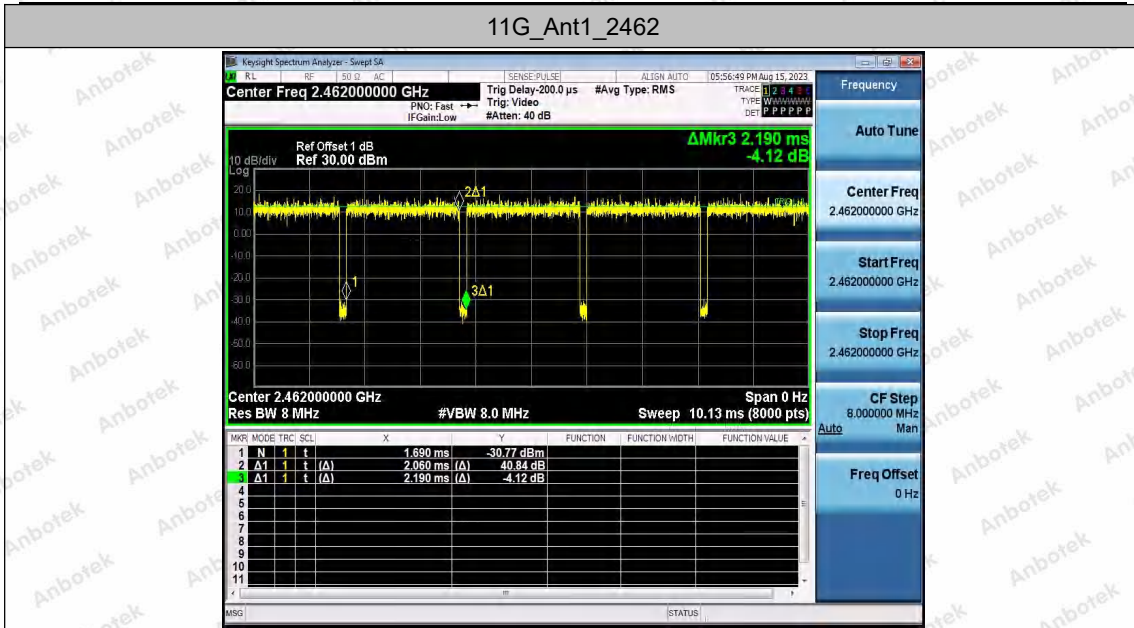


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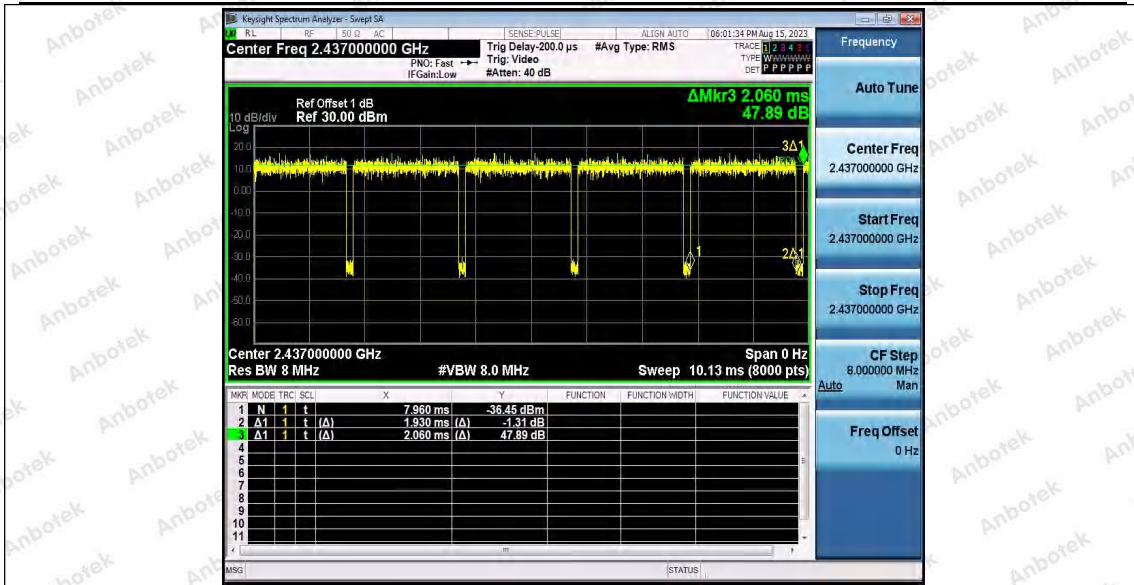
11N20SISO_Ant1_2437

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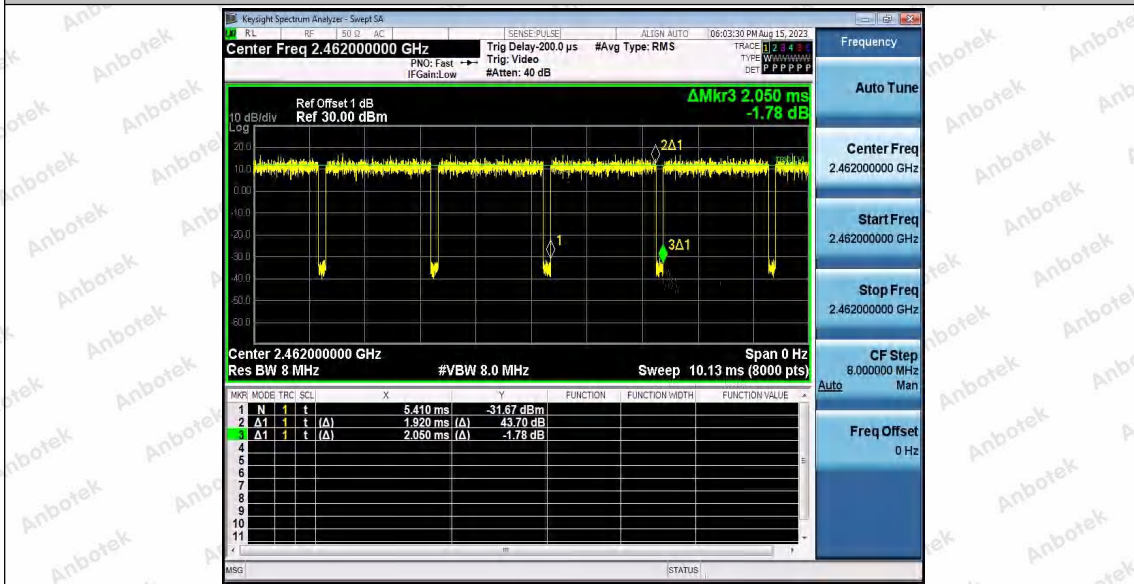
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11N20SISO_Ant1_2462



---End---

