

Appendix Test Data

Report No.:	18220WC40033901	Test Sample No.:	1-2-2
Start Test Date:	2024.3.12	Finish Test Date:	2024.3.13
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24℃	Relative Humidity:	45%
Pressure:	101kPa		

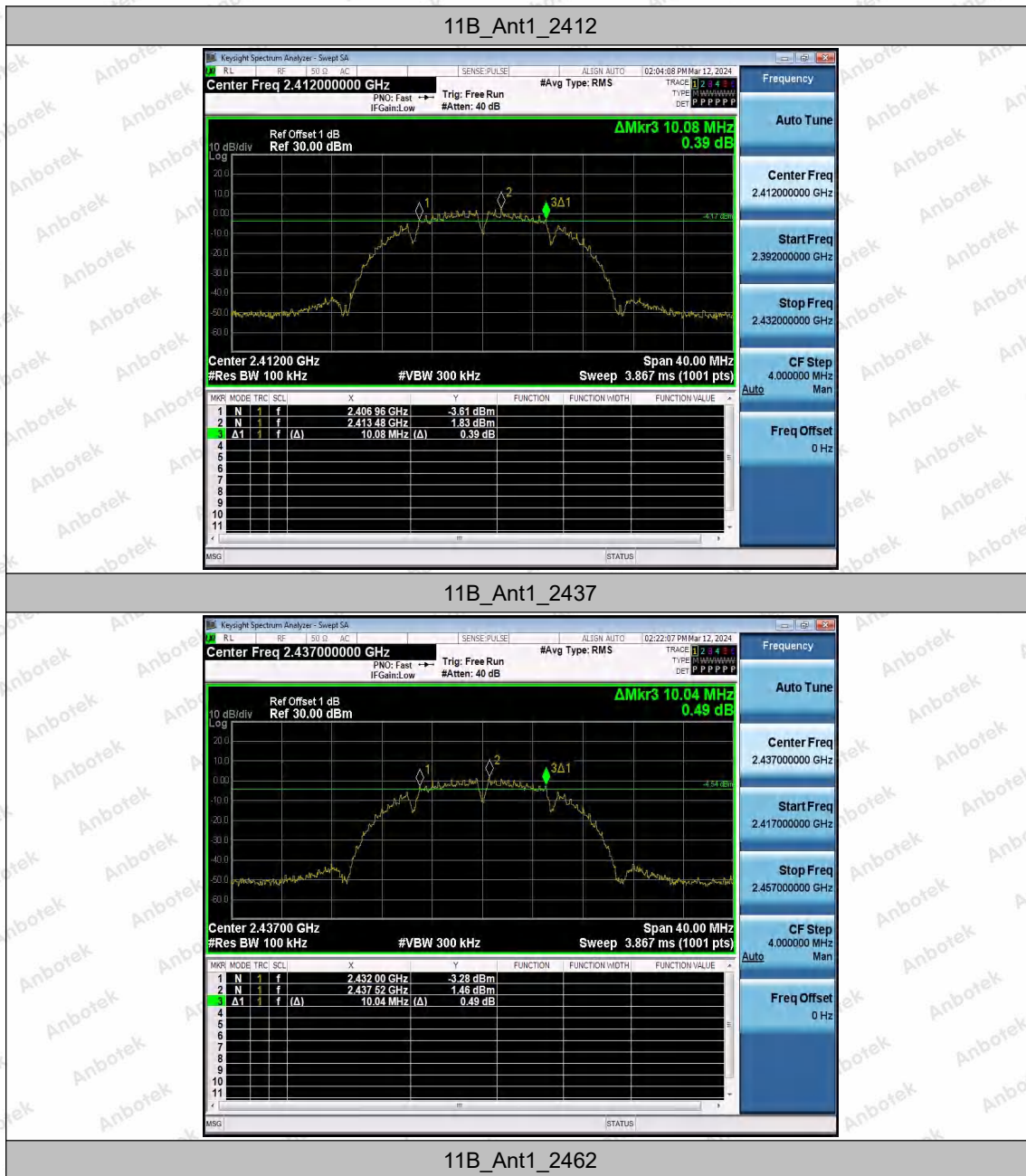
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.600	2420.520	0.5	PASS
		2437	16.880	2428.480	2445.360	0.5	PASS
		2462	16.920	2453.600	2470.520	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.400	2439.680	0.5	PASS
		2437	35.440	2419.080	2454.520	0.5	PASS
		2452	35.680	2434.080	2469.760	0.5	PASS



Test Graphs



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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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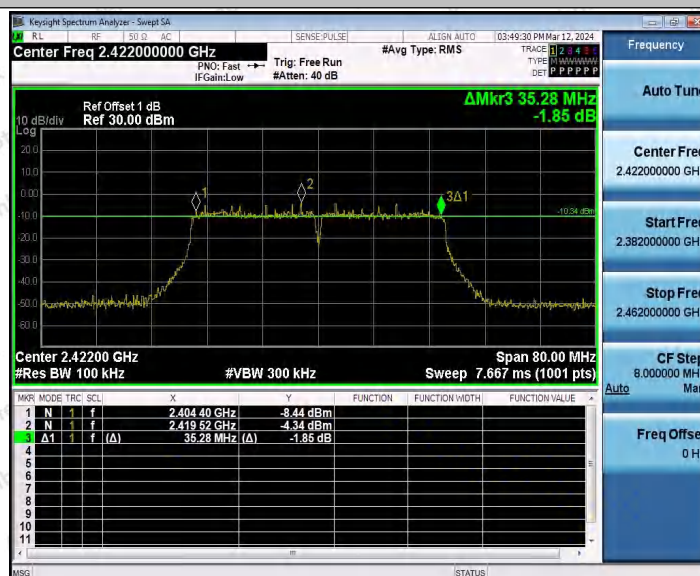




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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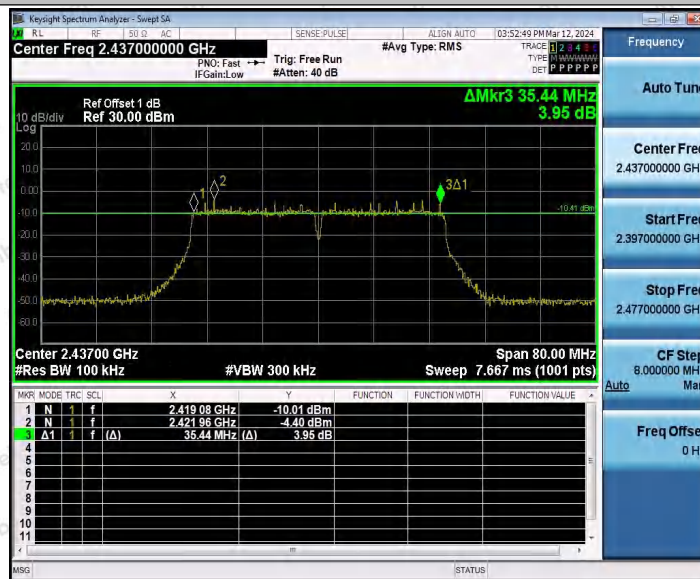
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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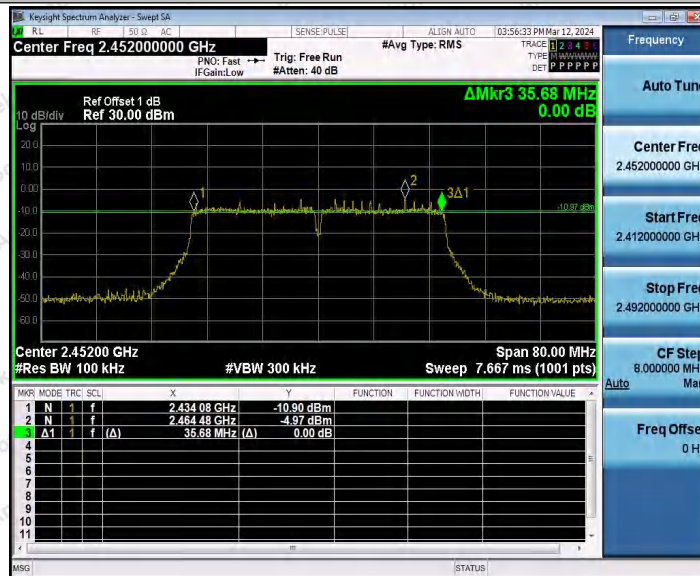
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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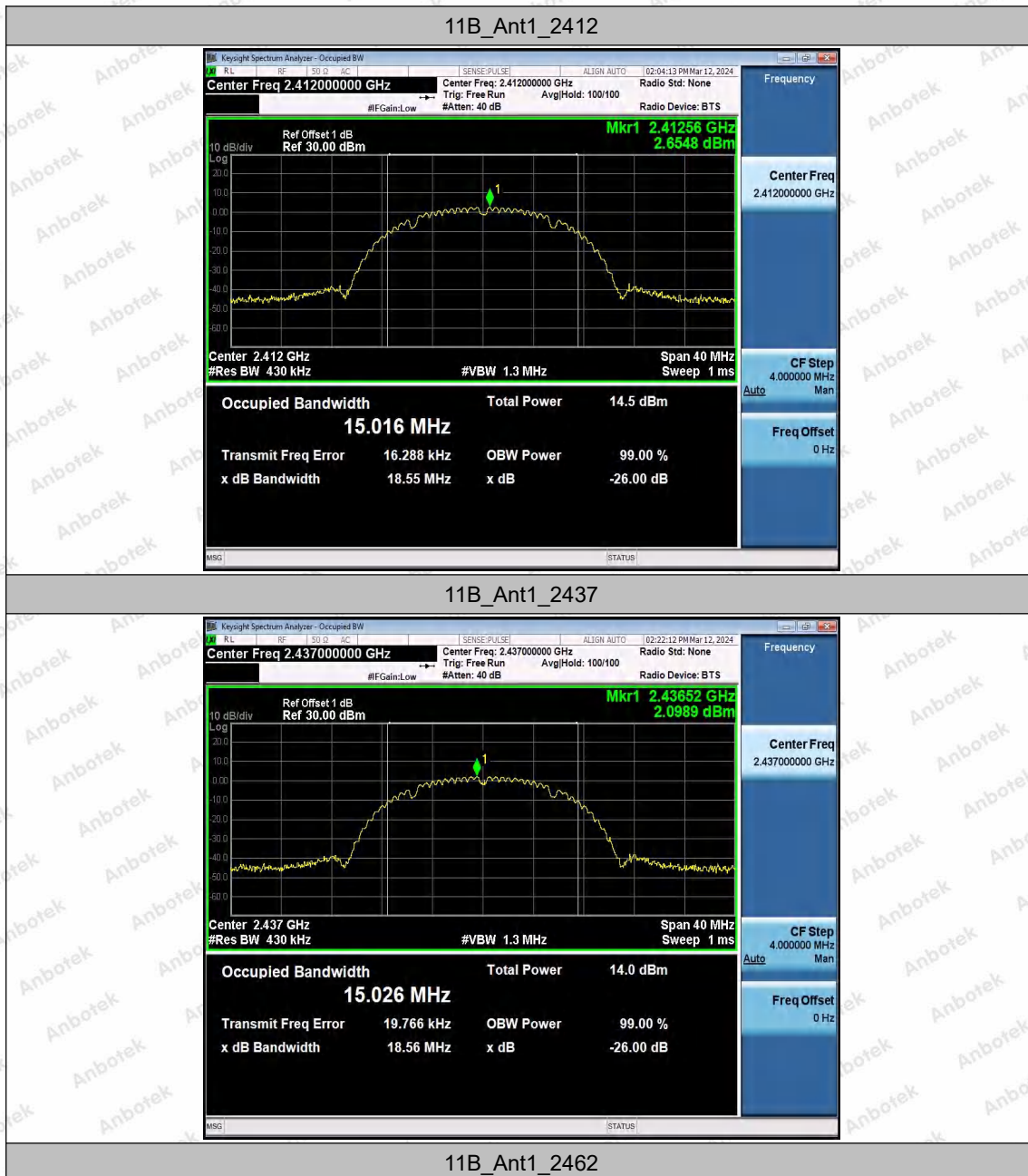
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.016	2404.5083	2419.5243	---	---
		2437	15.026	2429.5068	2444.5328	---	---
		2462	15.015	2454.5161	2469.5311	---	---
11G	Ant1	2412	16.954	2403.5550	2420.5090	---	---
		2437	16.927	2428.5941	2445.5211	---	---
		2462	16.906	2453.6013	2470.5073	---	---
11N20SISO	Ant1	2412	17.969	2403.0489	2421.0179	---	---
		2437	17.939	2428.0491	2445.9881	---	---
		2462	17.916	2453.0635	2470.9795	---	---
11N40SISO	Ant1	2422	36.425	2403.8698	2440.2948	---	---
		2437	36.438	2418.7721	2455.2101	---	---
		2452	36.407	2433.8537	2470.2607	---	---



Test Graphs



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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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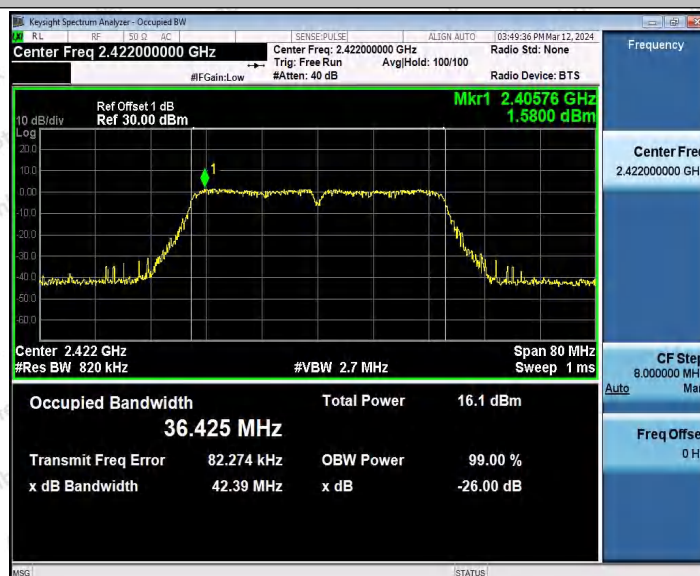




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix C: Maximum conducted output power

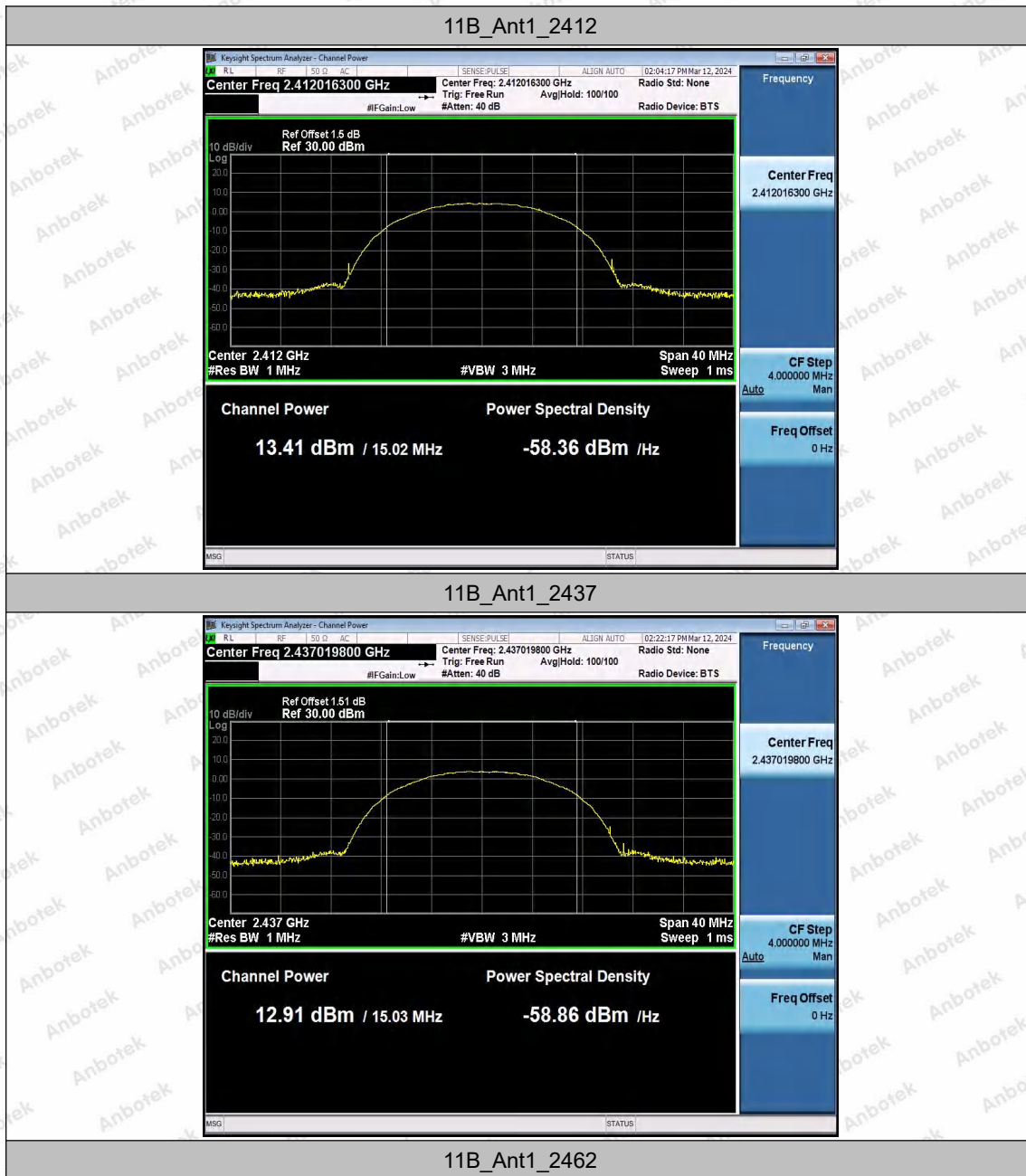
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	---	12.91	89.03	0.50	13.41	≤30.00	PASS
		2437	---	12.40	89.02	0.51	12.91	≤30.00	PASS
		2462	---	12.99	89.03	0.50	13.49	≤30.00	PASS
11G	Ant1	2412	---	13.35	57.63	2.39	15.74	≤30.00	PASS
		2437	---	13.29	57.38	2.41	15.70	≤30.00	PASS
		2462	---	13.07	57.38	2.41	15.48	≤30.00	PASS
11N20 SISO	Ant1	2412	---	11.20	55.70	2.54	13.74	≤30.00	PASS
		2437	---	13.43	55.70	2.54	15.97	≤30.00	PASS
		2462	---	13.00	55.95	2.52	15.52	≤30.00	PASS
11N40 SISO	Ant1	2422	---	13.61	38.65	4.13	17.74	≤30.00	PASS
		2437	---	13.51	38.41	4.16	17.67	≤30.00	PASS
		2452	---	13.35	39.02	4.09	17.44	≤30.00	PASS

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



Test Graphs



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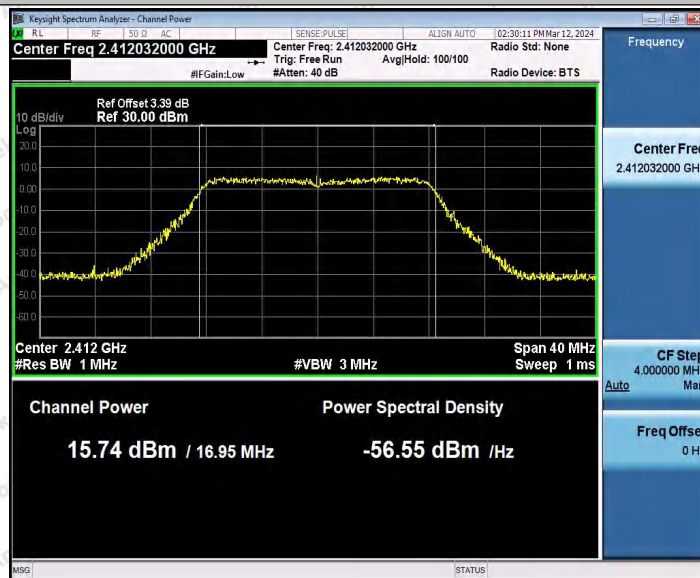


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11G_Ant1_2412



11G_Ant1_2437



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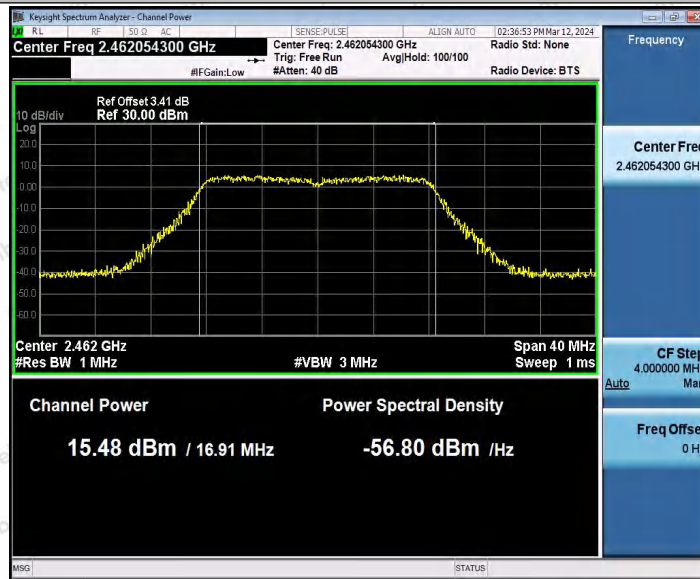
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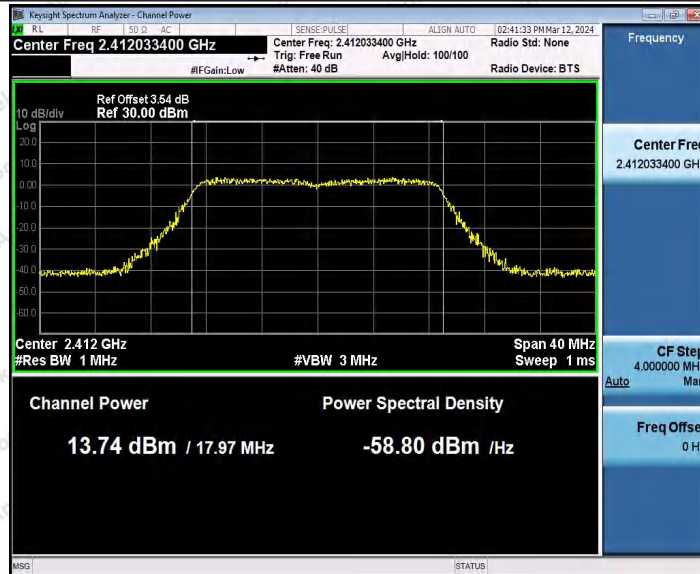
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

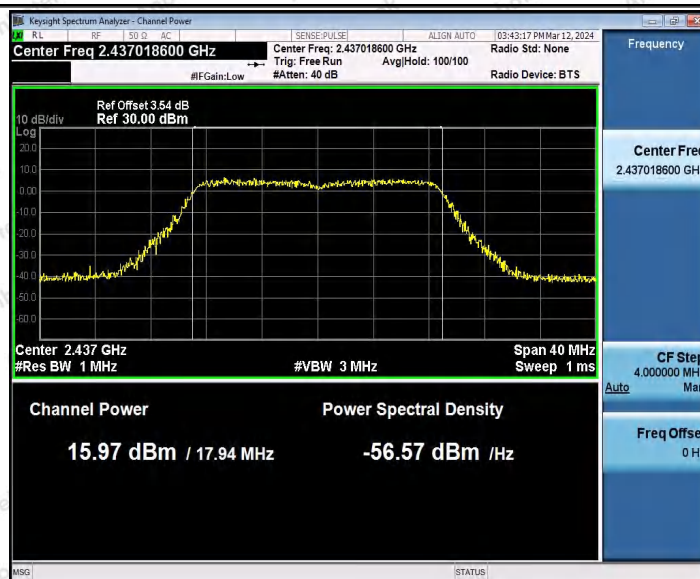
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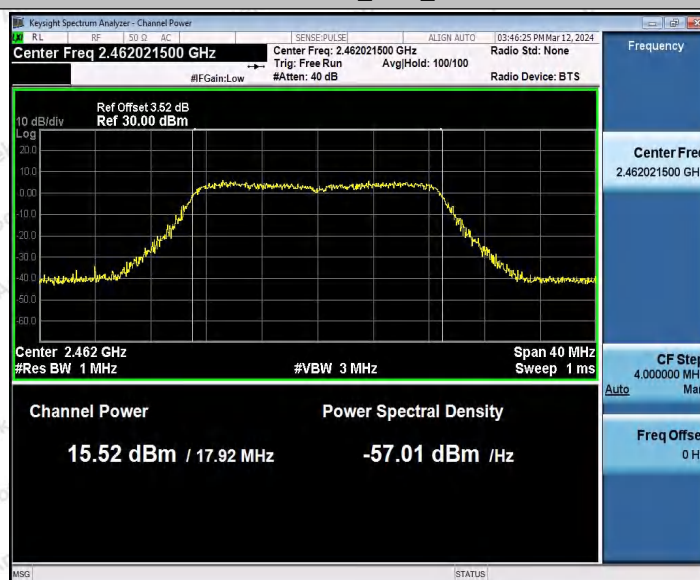


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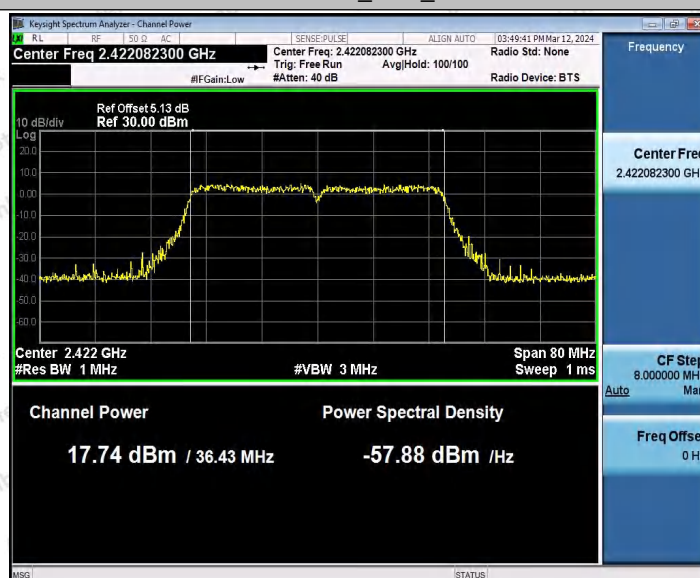




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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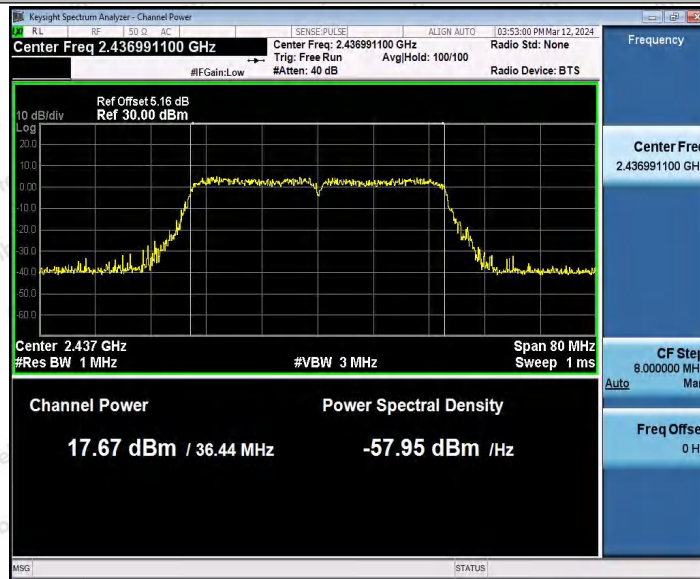
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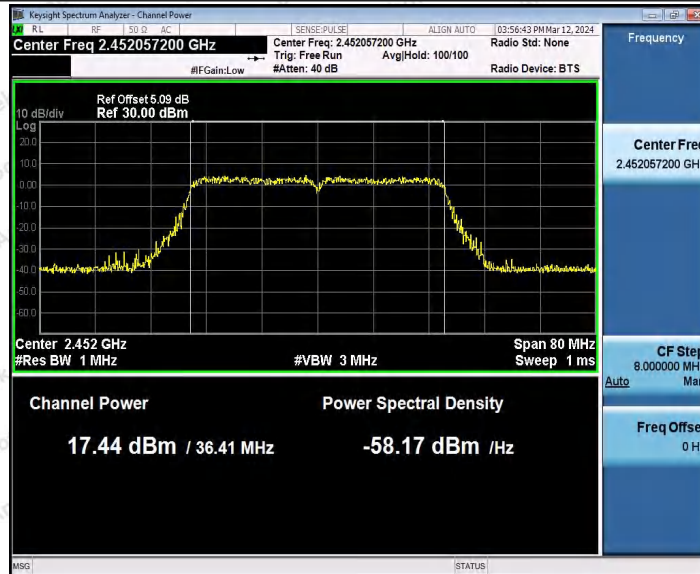
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-11.03	-21.03	≤8.00	PASS
		2437	-13.30	-23.30	≤8.00	PASS
		2462	-10.68	-20.68	≤8.00	PASS
11G	Ant1	2412	-13.87	-23.87	≤8.00	PASS
		2437	-14.28	-24.28	≤8.00	PASS
		2462	-14.43	-24.43	≤8.00	PASS
11N20SISO	Ant1	2412	-16.35	-26.35	≤8.00	PASS
		2437	-14.28	-24.28	≤8.00	PASS
		2462	-14.57	-24.57	≤8.00	PASS
11N40SISO	Ant1	2422	-14.61	-24.61	≤8.00	PASS
		2437	-15.95	-25.95	≤8.00	PASS
		2452	-15.80	-25.80	≤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



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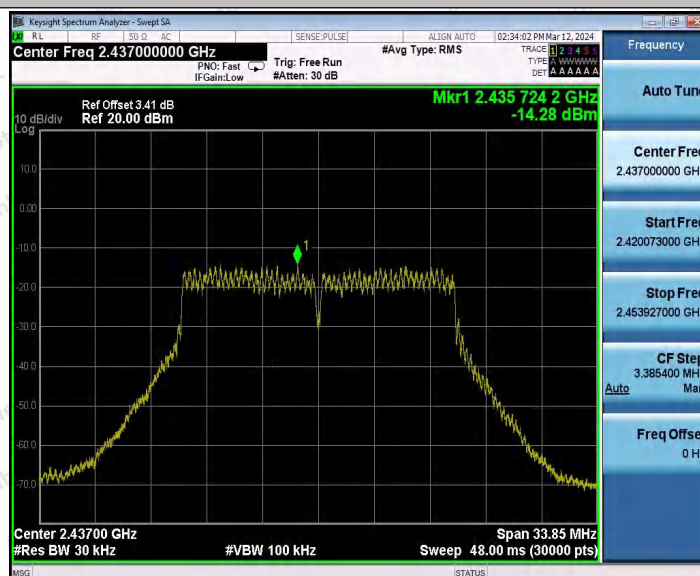




11G_Ant1_2412



11G_Ant1_2437

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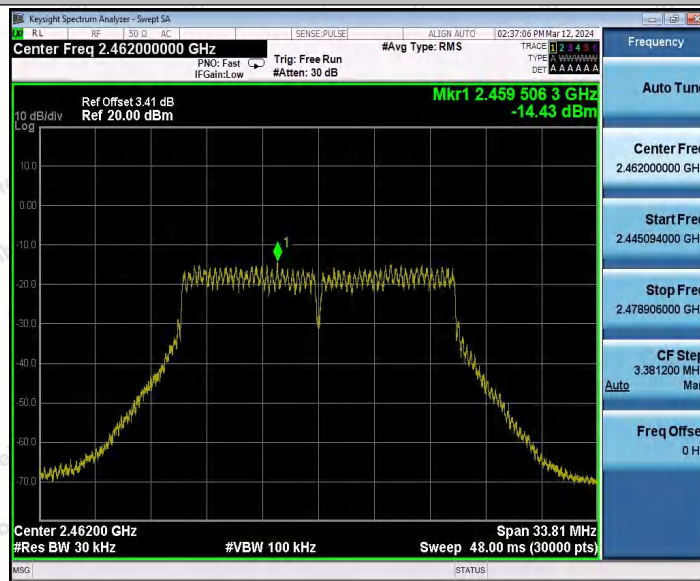
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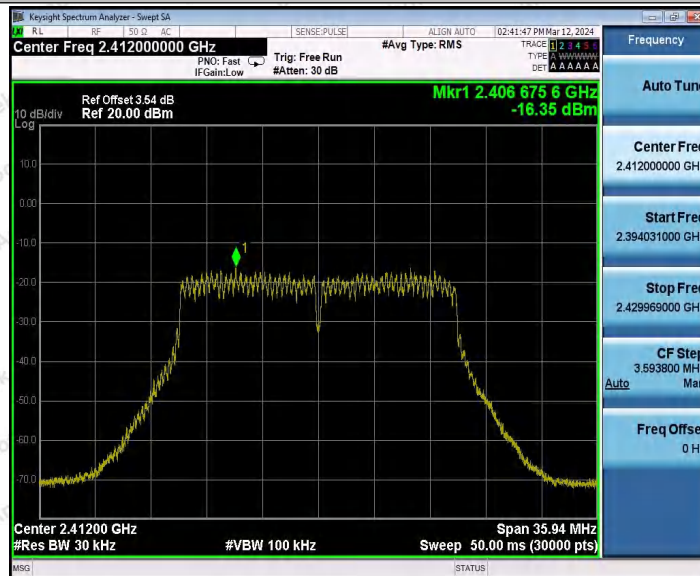
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

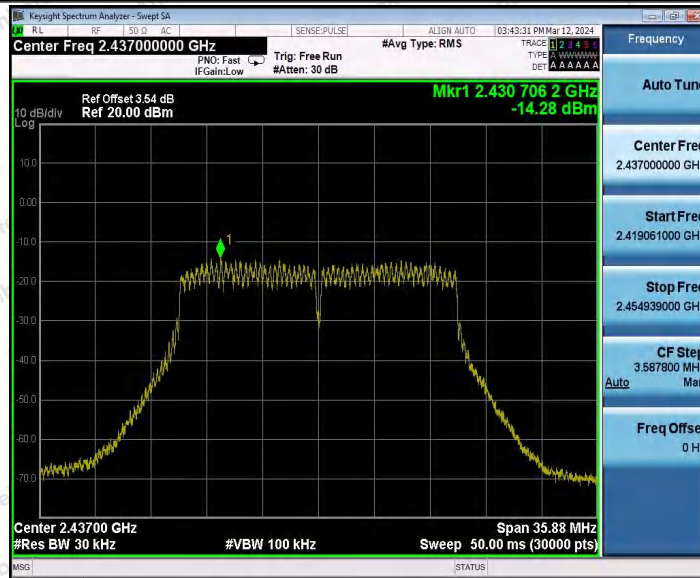
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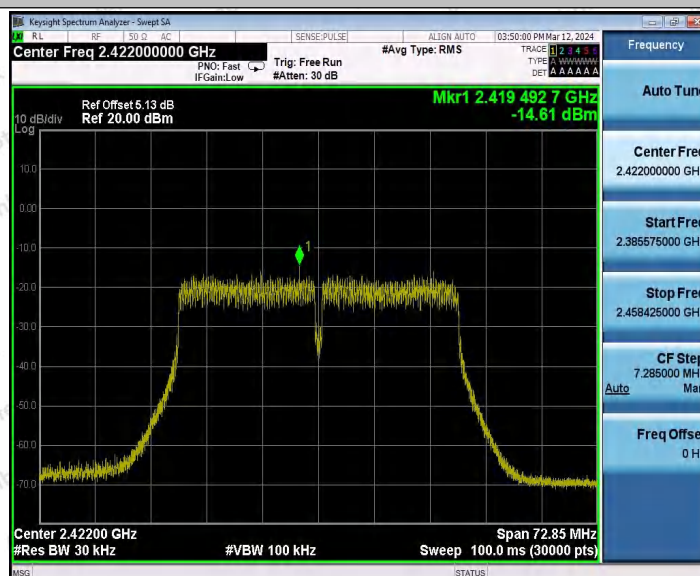




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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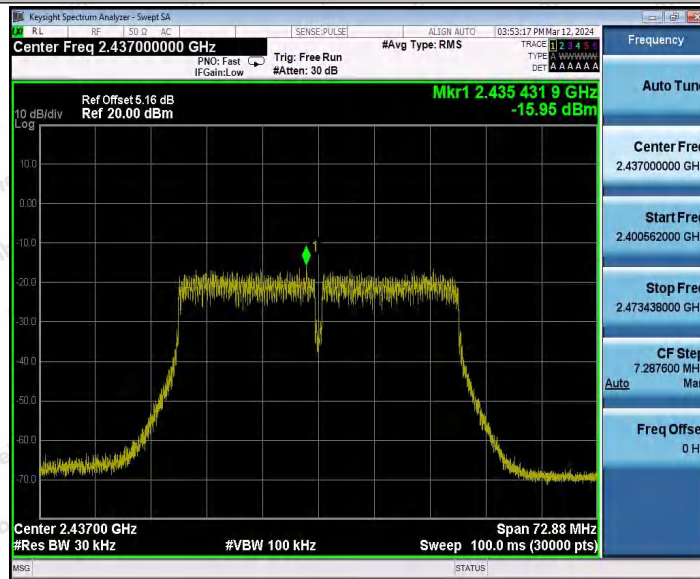
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix E: Band edge measurements

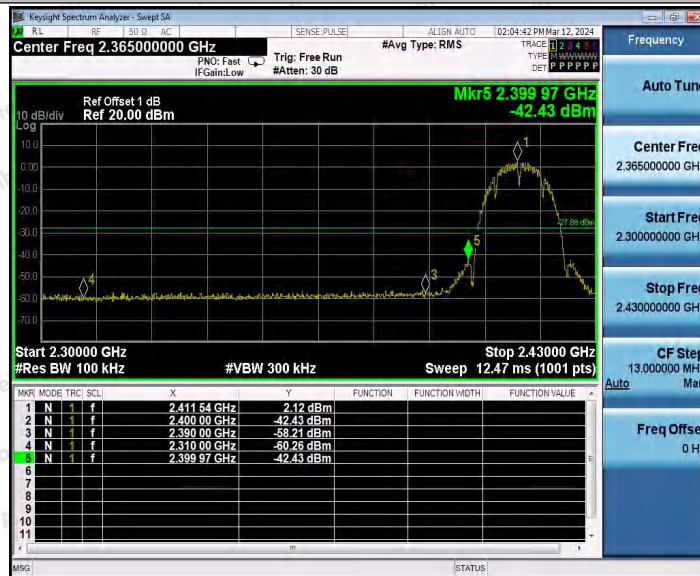
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.12	-42.43	≤-27.88	PASS
		High	2462	1.91	-56.00	≤-28.09	PASS
11G	Ant1	Low	2412	-1.55	-42.06	≤-31.55	PASS
		High	2462	-2.08	-56.58	≤-32.08	PASS
11N20SISO	Ant1	Low	2412	-3.94	-42.79	≤-33.94	PASS
		High	2462	-1.85	-56.45	≤-31.85	PASS
11N40SISO	Ant1	Low	2422	-4.35	-41.77	≤-34.35	PASS
		High	2452	-4.71	-54.75	≤-34.71	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

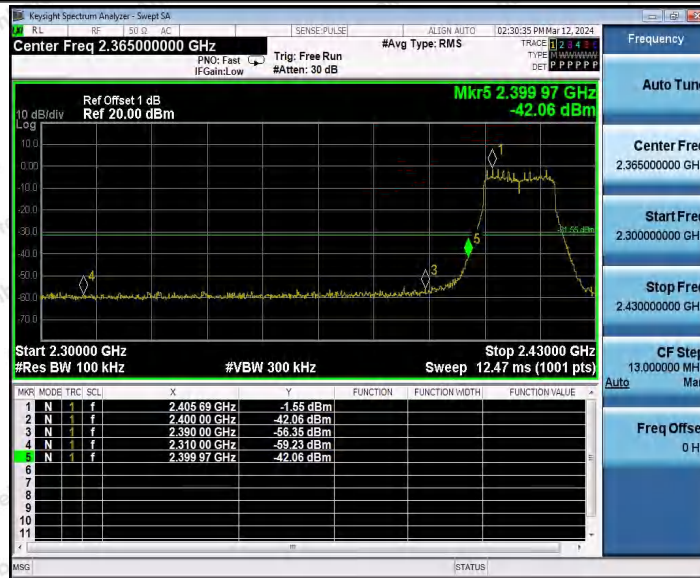
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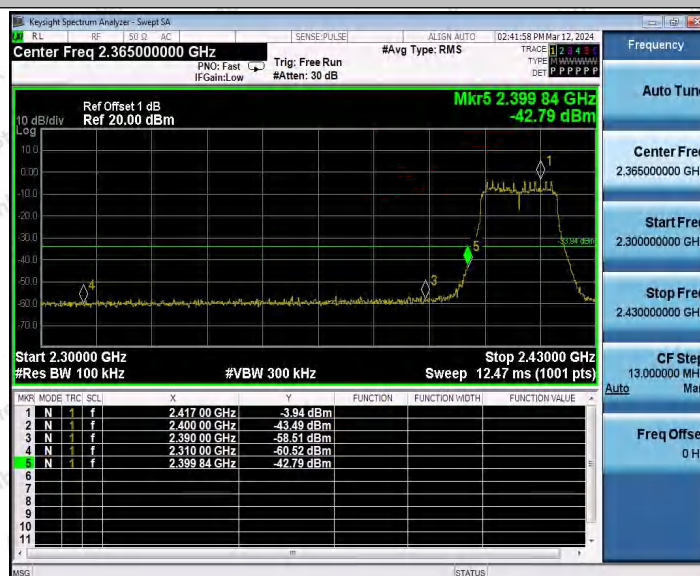




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

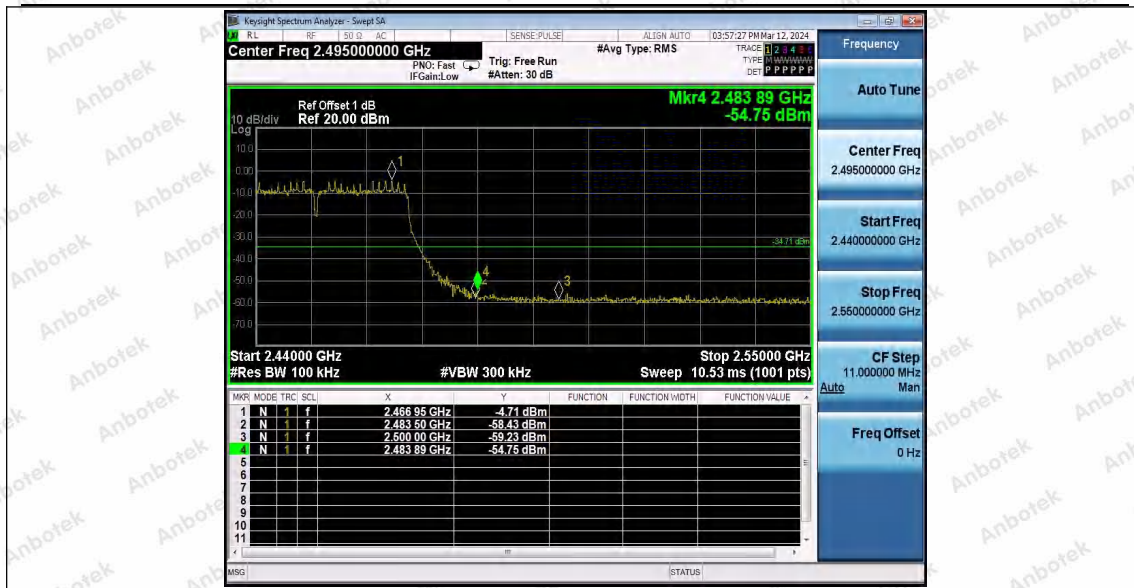
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-68.26	≤-27.89	PASS
			1000~26500	2.11	-53.69	≤-27.89	PASS
		2437	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-68.61	≤-27.09	PASS
			1000~26500	2.91	-53.52	≤-27.09	PASS
		2462	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-68.4	≤-27.82	PASS
			1000~26500	2.18	-53.15	≤-27.82	PASS
11G	Ant1	2412	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-67.66	≤-31.61	PASS
			1000~26500	-1.61	-53.53	≤-31.61	PASS
		2437	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-68.35	≤-31.76	PASS
			1000~26500	-1.76	-53.19	≤-31.76	PASS
		2462	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-68.18	≤-31.94	PASS
			1000~26500	-1.94	-53.71	≤-31.94	PASS
11N20SISO	Ant1	2412	Reference	-3.63	-3.63	---	PASS
			30~1000	-3.63	-67.82	≤-33.63	PASS
			1000~26500	-3.63	-54.07	≤-33.63	PASS
		2437	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-68.94	≤-31.39	PASS
			1000~26500	-1.39	-53.23	≤-31.39	PASS
		2462	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-68.42	≤-32.05	PASS
			1000~26500	-2.05	-54.16	≤-32.05	PASS
11N40SISO	Ant1	2422	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-68.02	≤-34.17	PASS
			1000~26500	-4.17	-53.33	≤-34.17	PASS
		2437	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-68.55	≤-34.39	PASS
			1000~26500	-4.39	-53.59	≤-34.39	PASS
		2452	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-68.02	≤-34.69	PASS
			1000~26500	-4.69	-52.65	≤-34.69	PASS

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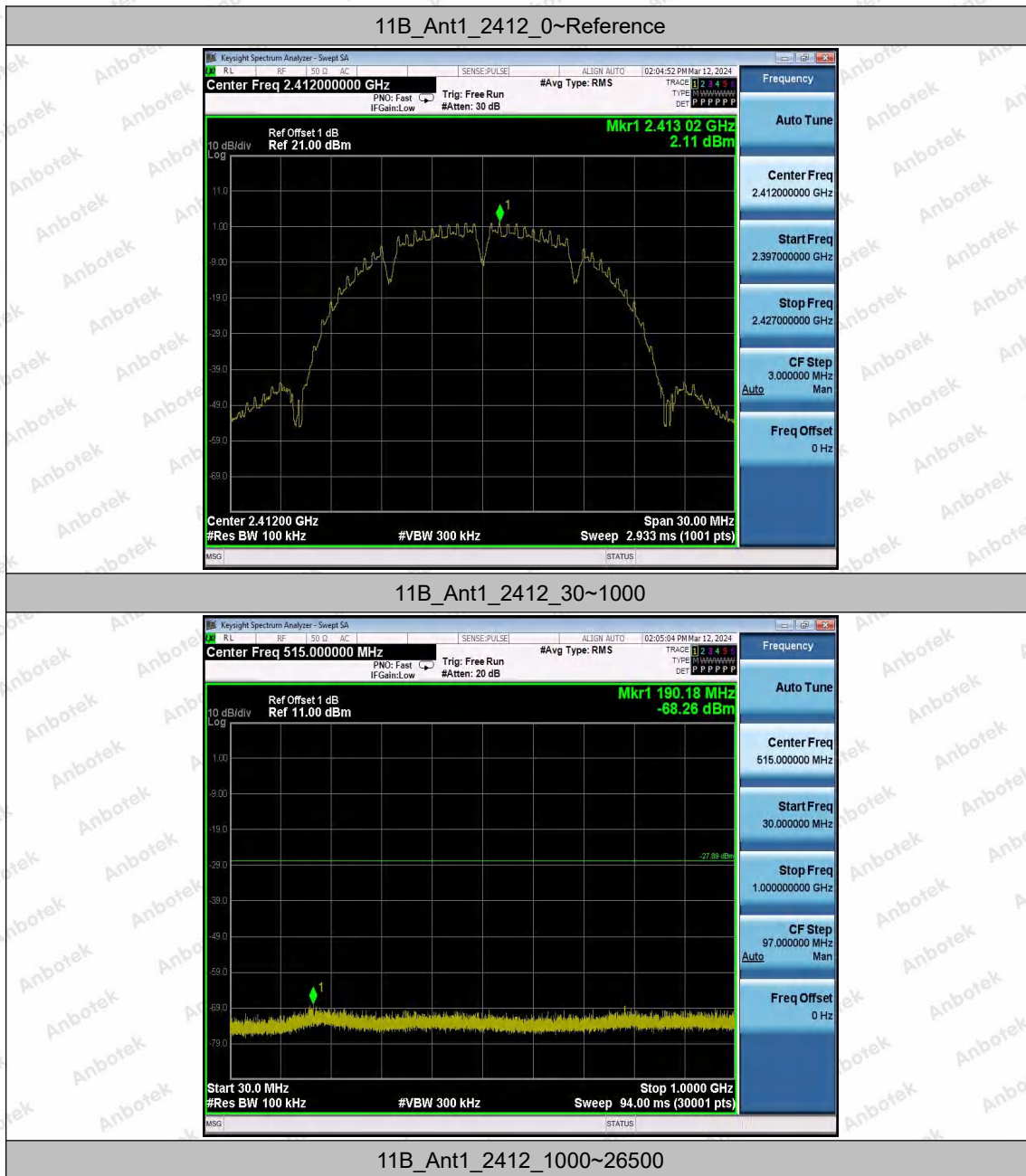
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Test Graphs



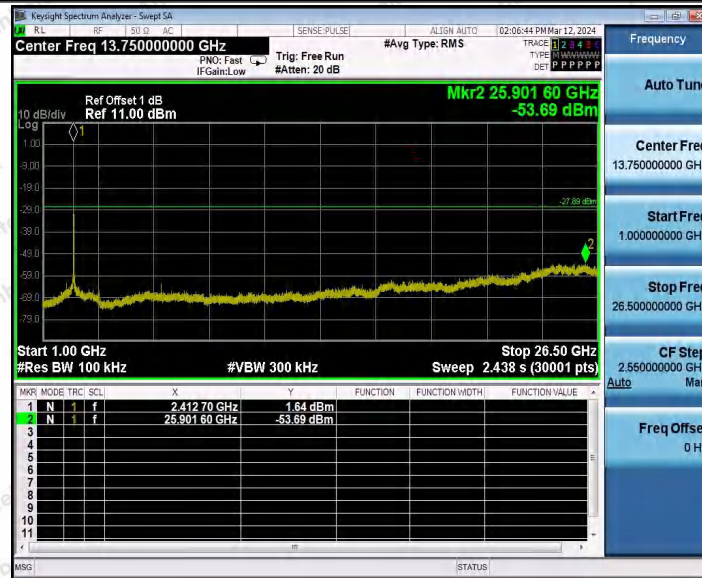
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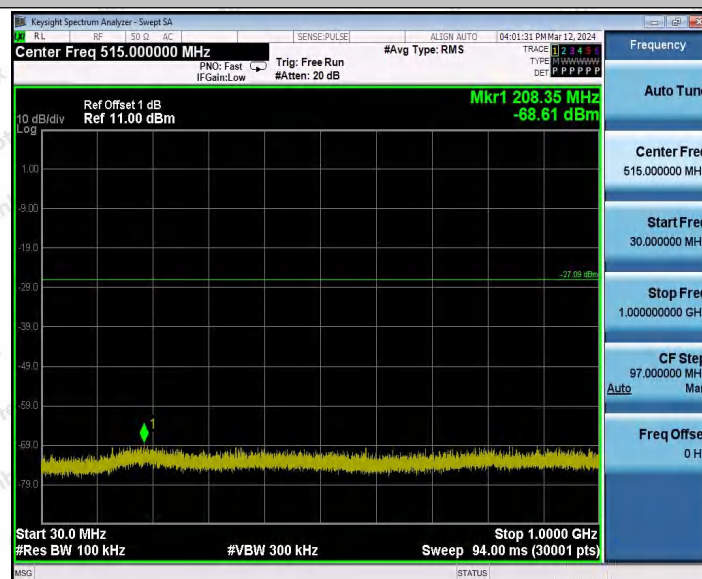




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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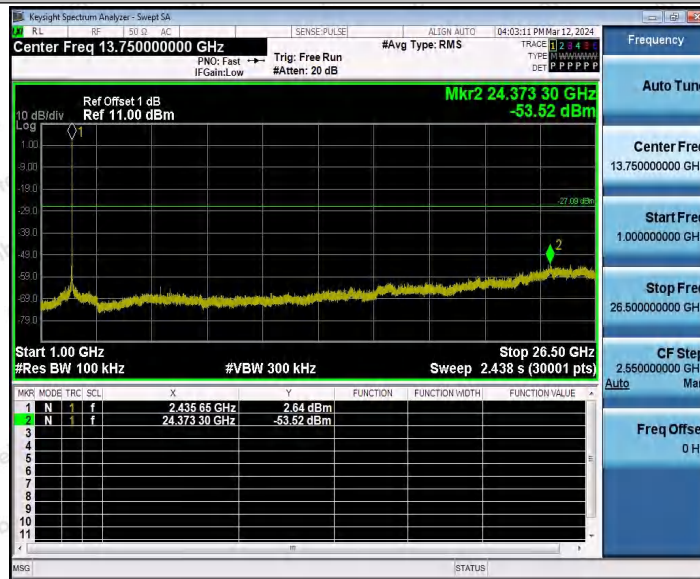
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

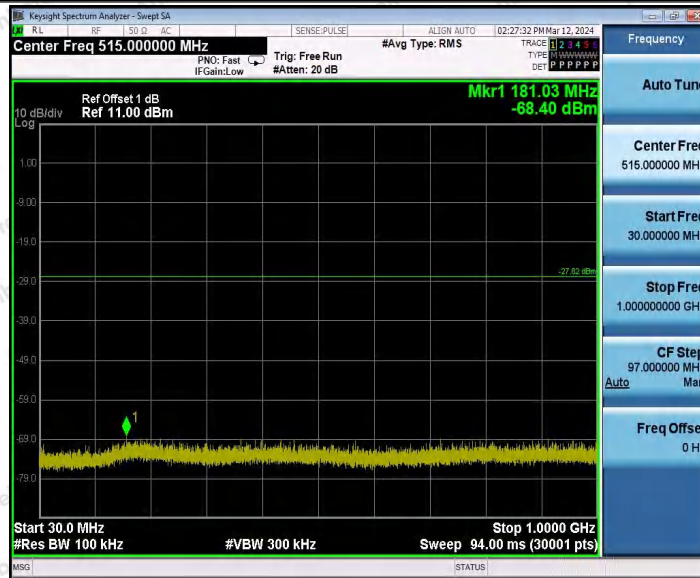
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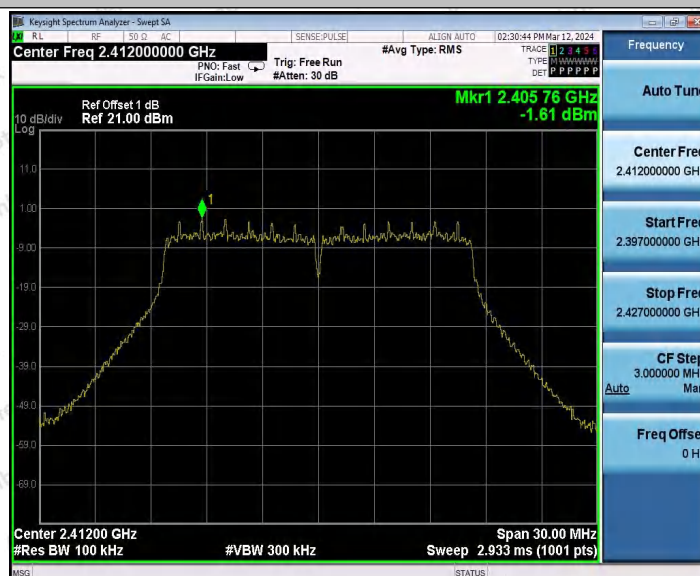




11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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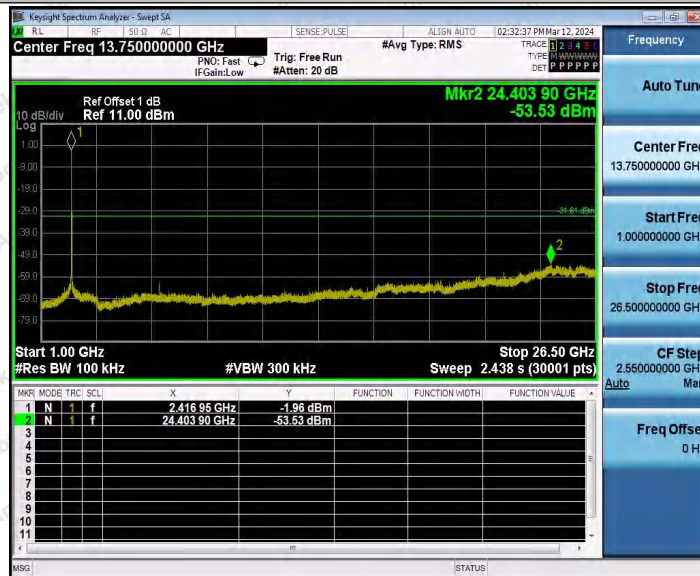
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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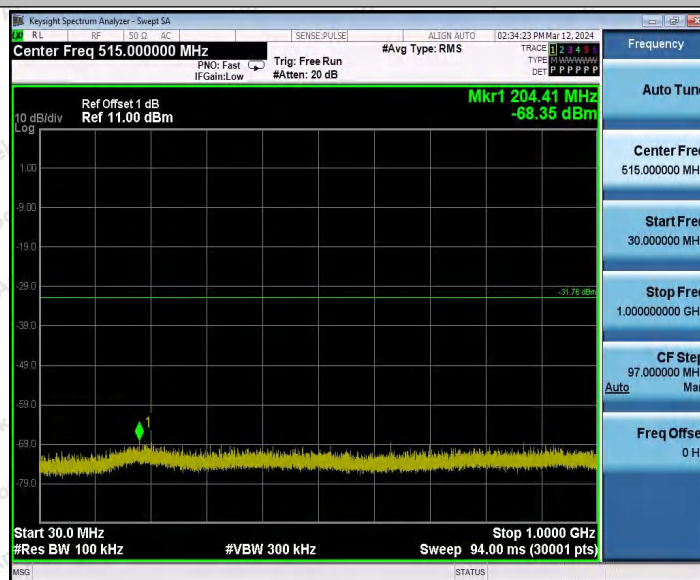


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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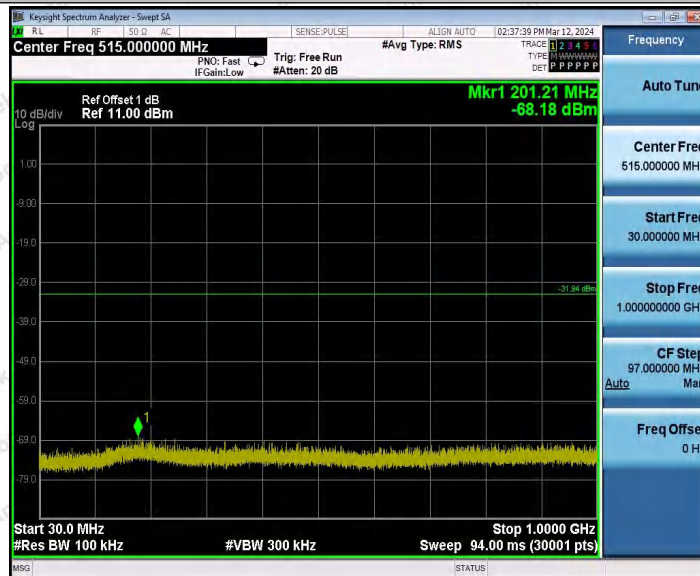
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

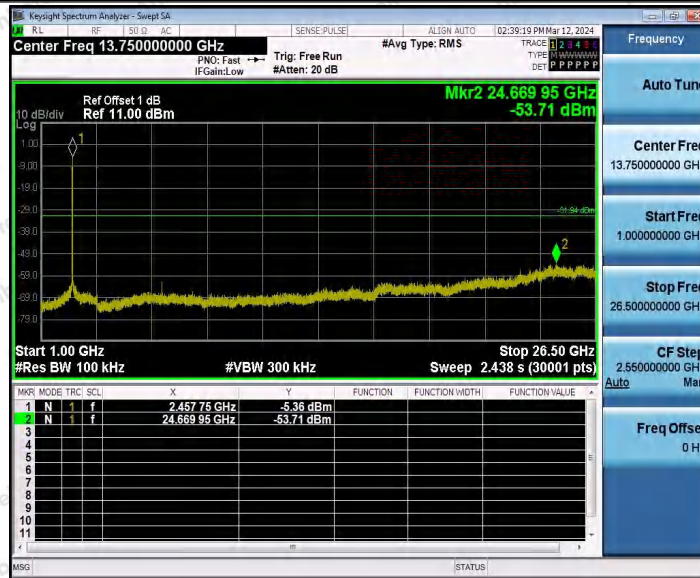
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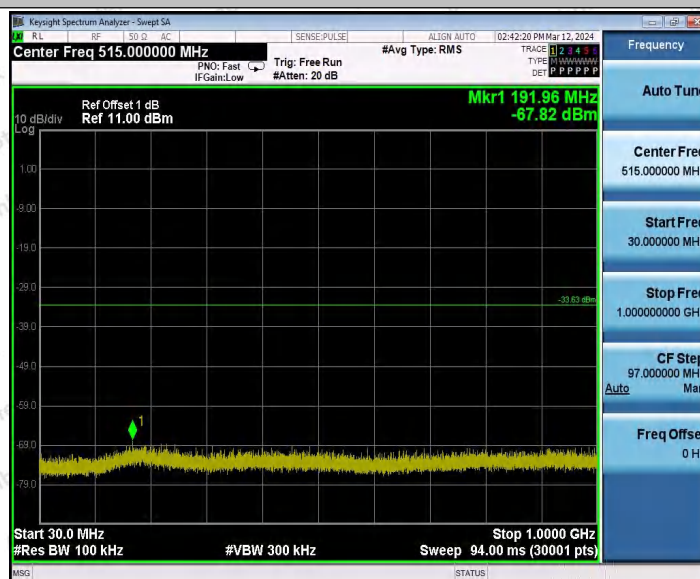




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



Shenzhen Anbotek Compliance Laboratory Limited

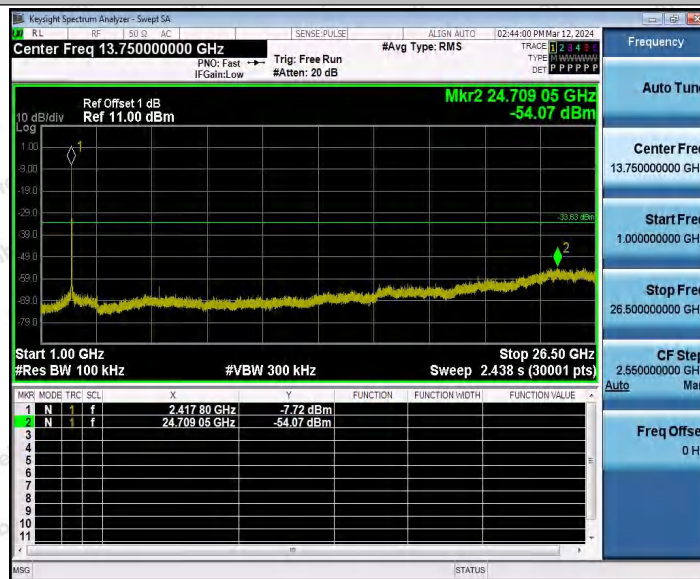
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

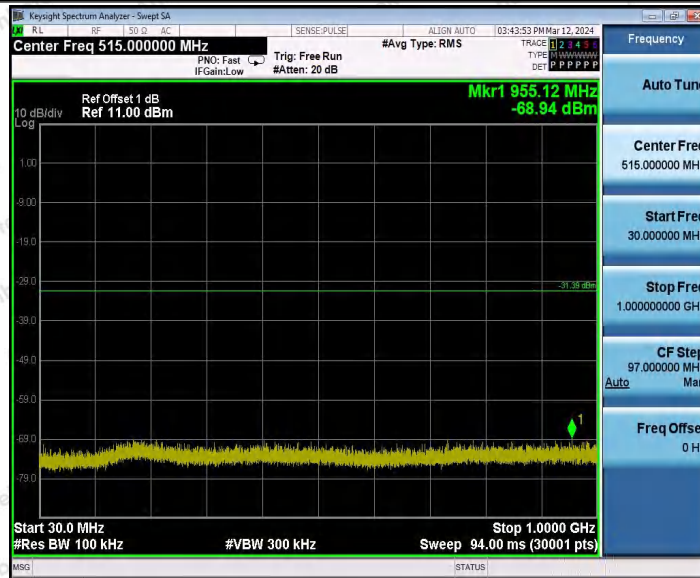
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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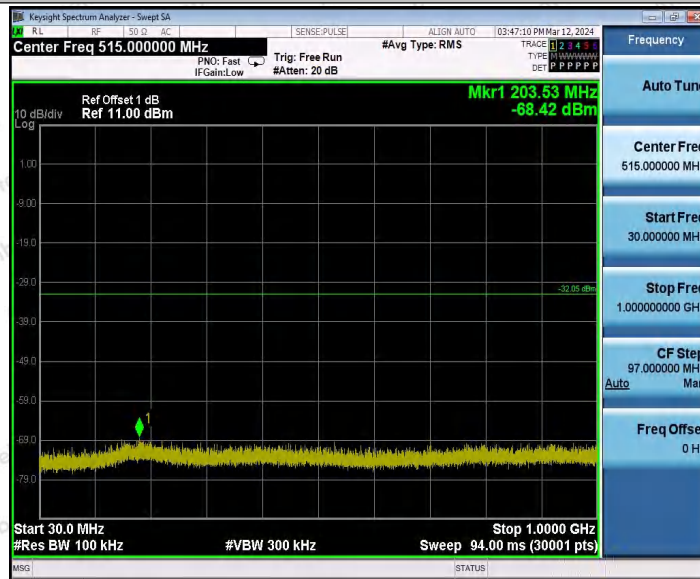
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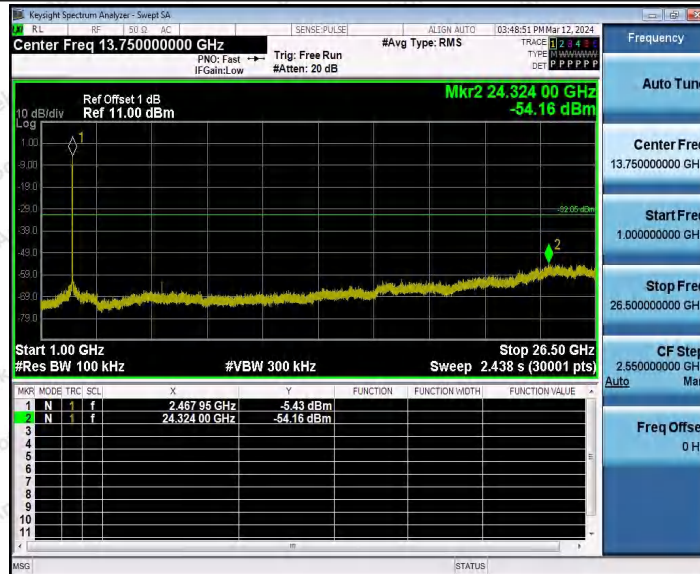
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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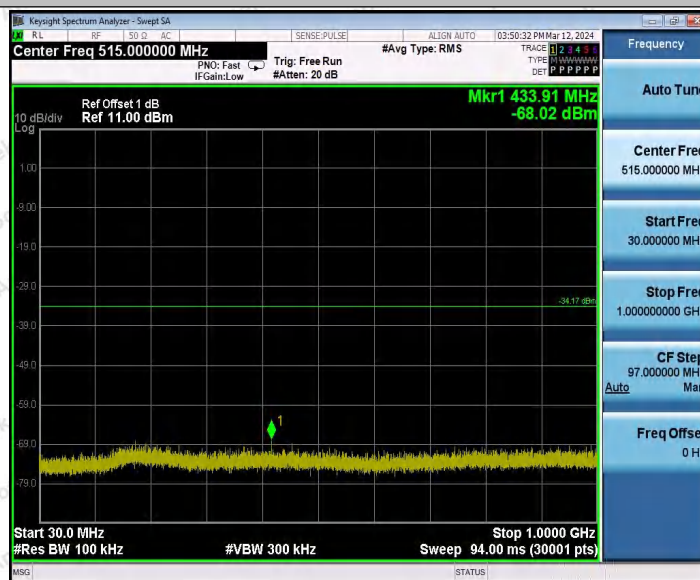


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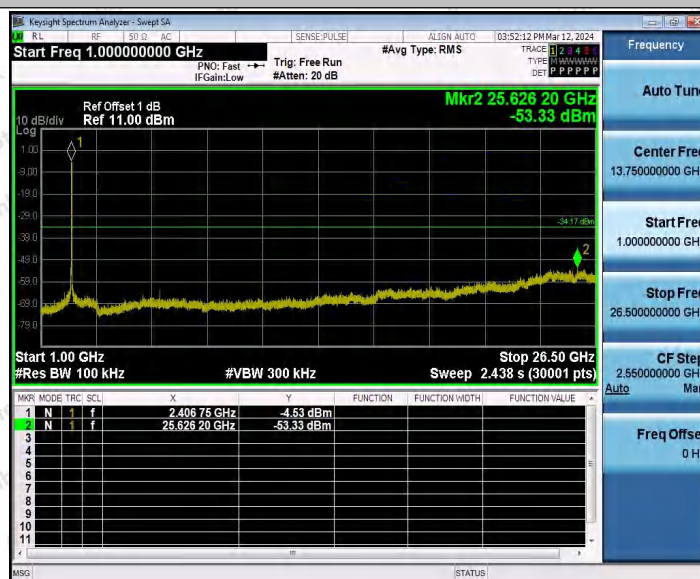




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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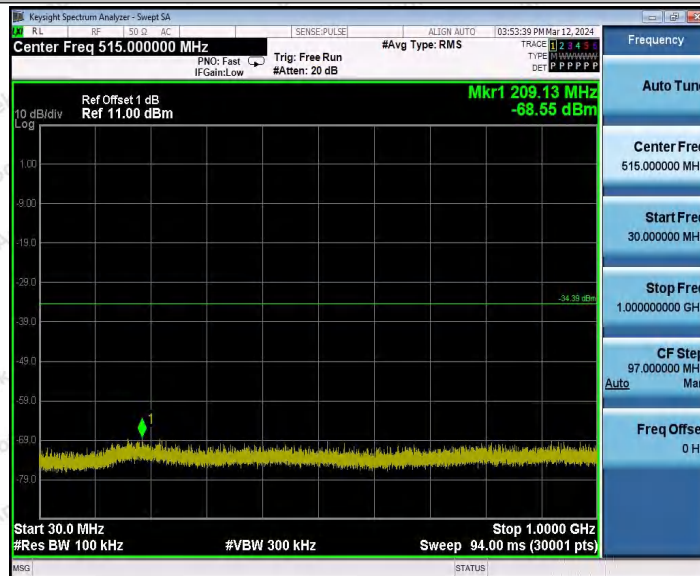
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11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500

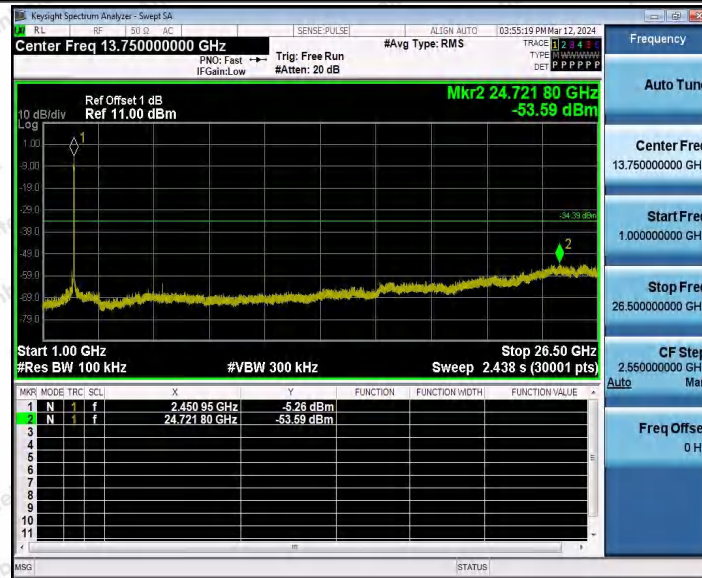
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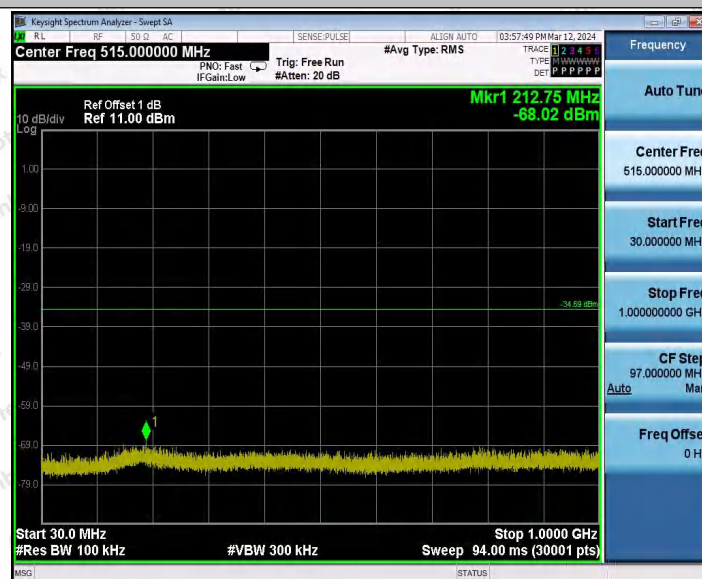




11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



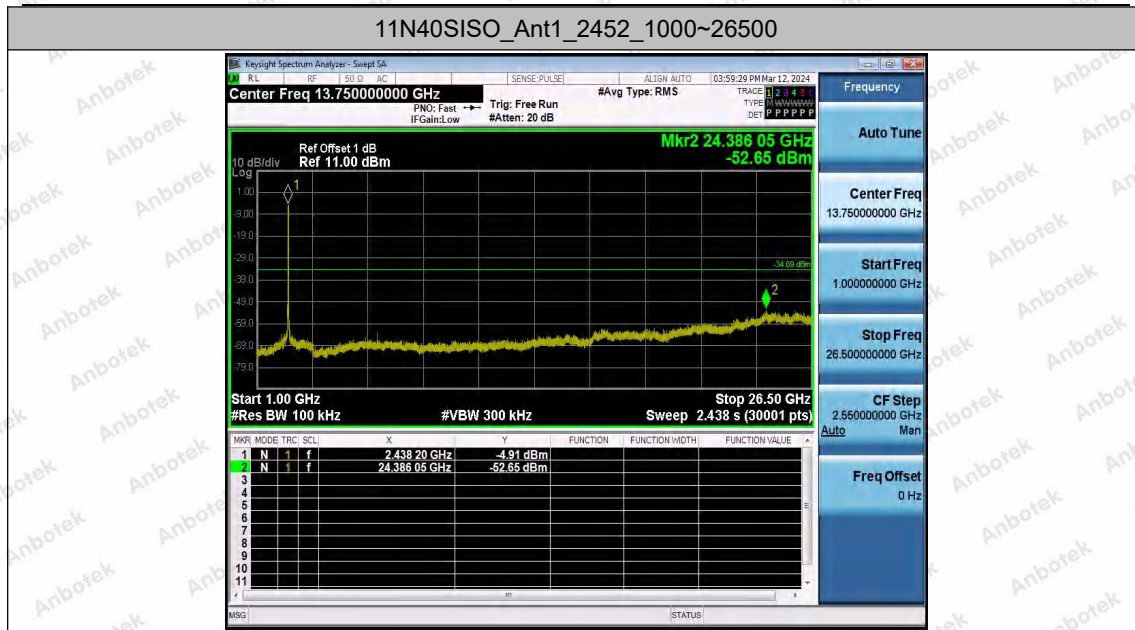
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Appendix G: Duty Cycle

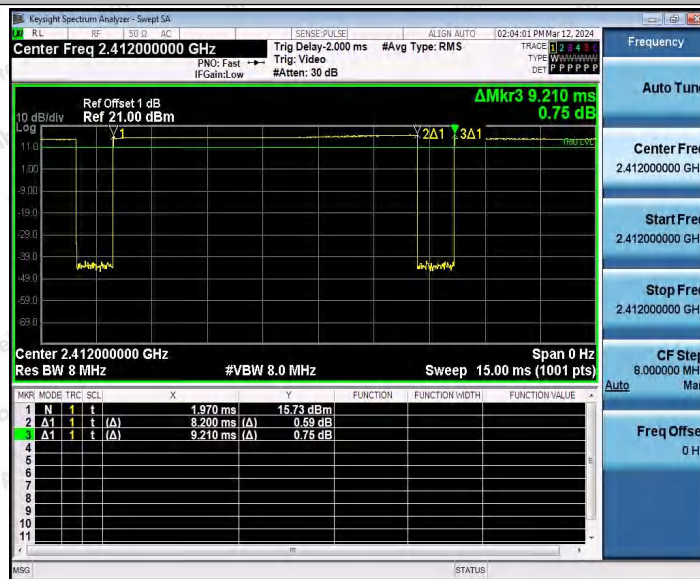
Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.20	9.21	89.03	0.50
		2437	8.19	9.20	89.02	0.51
		2462	8.20	9.21	89.03	0.50
11G	Ant1	2412	1.36	2.36	57.63	2.39
		2437	1.36	2.37	57.38	2.41
		2462	1.36	2.37	57.38	2.41
11N20SISO	Ant1	2412	1.27	2.28	55.70	2.54
		2437	1.27	2.28	55.70	2.54
		2462	1.27	2.27	55.95	2.52
11N40SISO	Ant1	2422	0.63	1.63	38.65	4.13
		2437	0.63	1.64	38.41	4.16
		2452	0.64	1.64	39.02	4.09

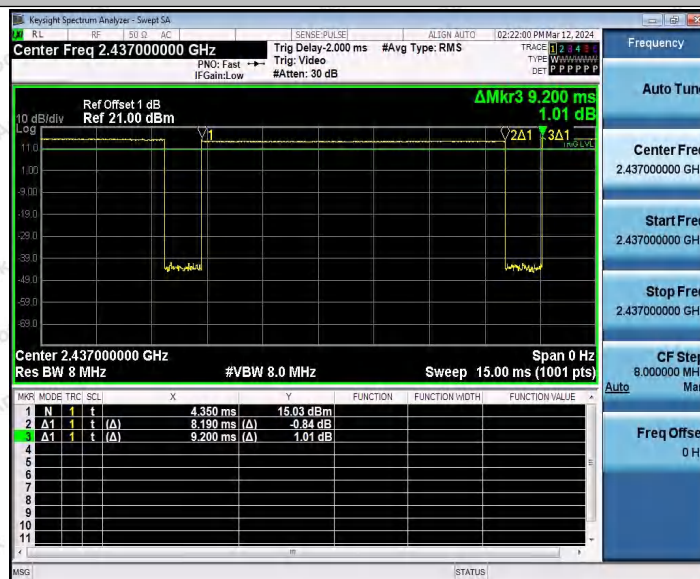


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

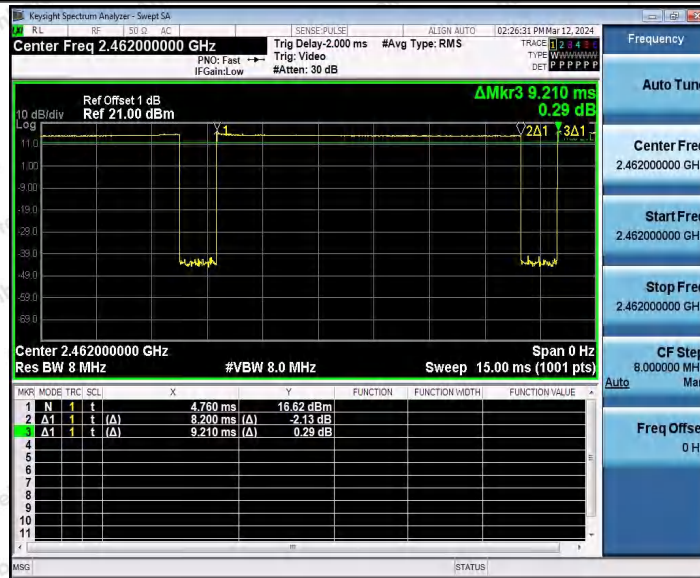
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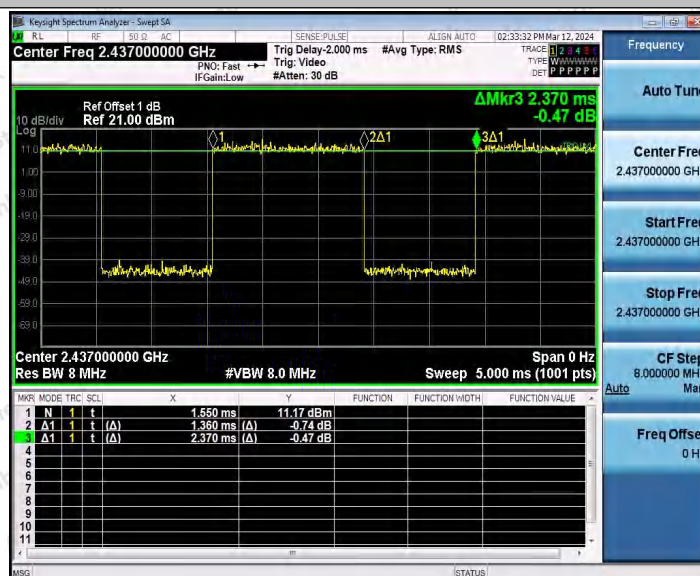




11G_Ant1_2412



11G_Ant1_2437



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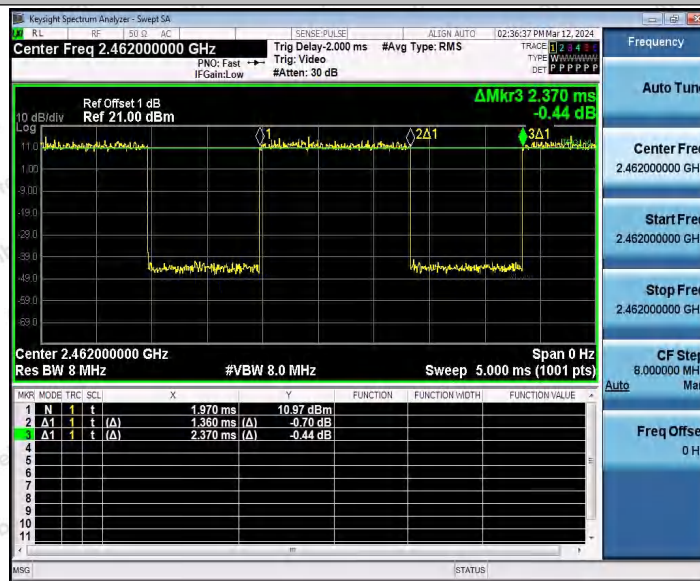
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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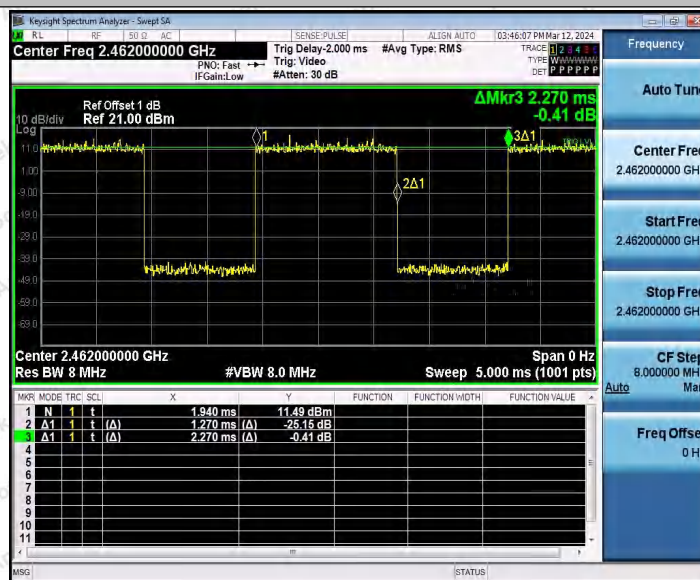


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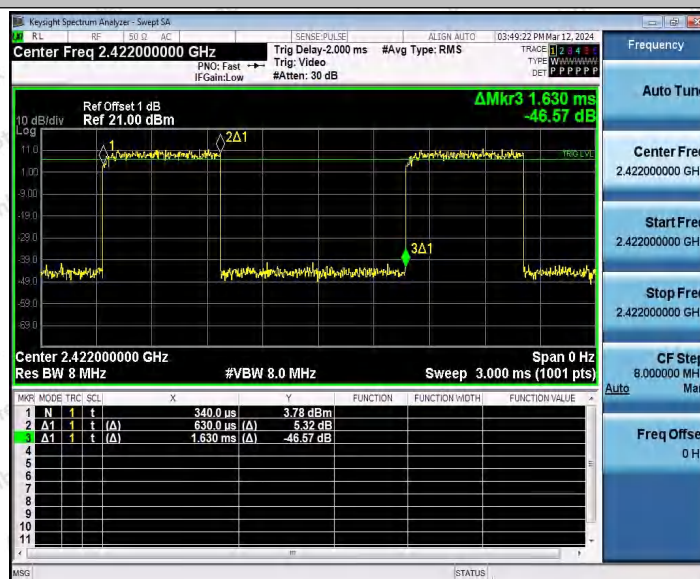




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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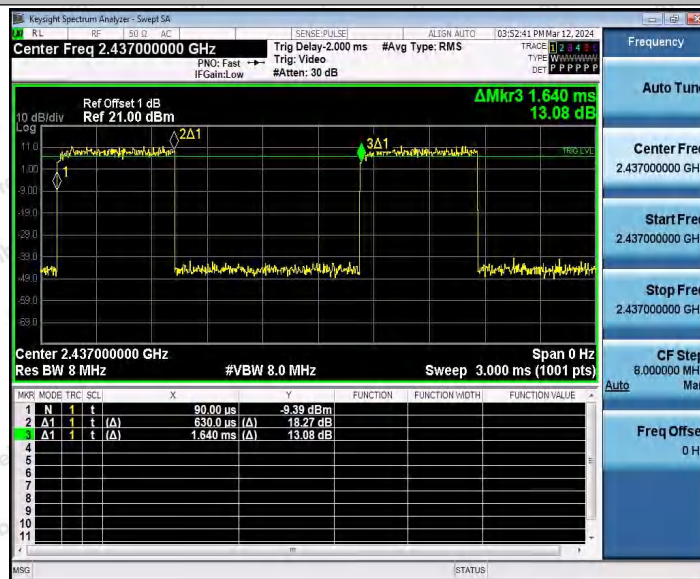
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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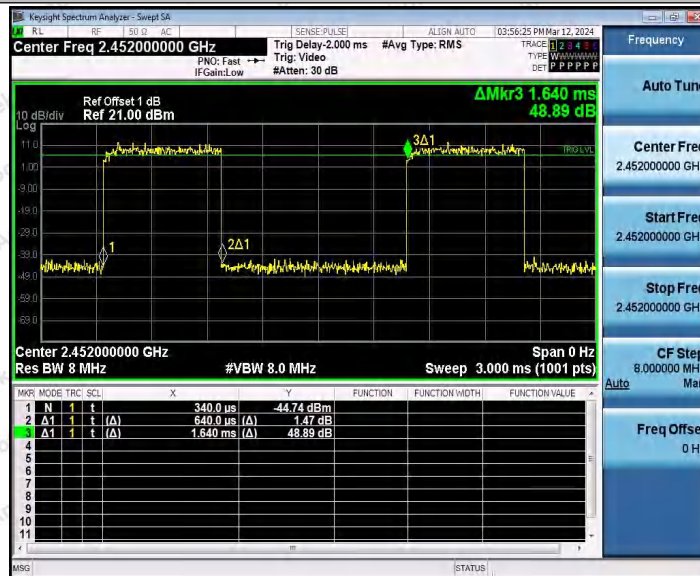
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



---END---

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