

Appendix Test Data

Report No.:	18220WC40026002	Test Sample No.:	1-2-2
Start Test Date:	2024.2.26	Finish Test Date:	2024.2.27
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
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	7.640	2408.200	2415.840	0.5	PASS
		2437	8.080	2432.920	2441.000	0.5	PASS
		2462	7.800	2457.960	2465.760	0.5	PASS
11G	Ant1	2412	16.560	2403.720	2420.280	0.5	PASS
		2437	16.480	2428.720	2445.200	0.5	PASS
		2462	16.520	2453.720	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.680	2453.120	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	35.440	2418.840	2454.280	0.5	PASS
		2452	36.560	2433.680	2470.240	0.5	PASS
11AX20SISO	Ant1	2412	19.000	2402.520	2421.520	0.5	PASS
		2437	18.880	2427.480	2446.360	0.5	PASS
		2462	19.040	2452.440	2471.480	0.5	PASS
11AX40SISO	Ant1	2422	37.920	2402.880	2440.800	0.5	PASS
		2437	37.840	2417.960	2455.800	0.5	PASS
		2452	37.760	2433.120	2470.880	0.5	PASS

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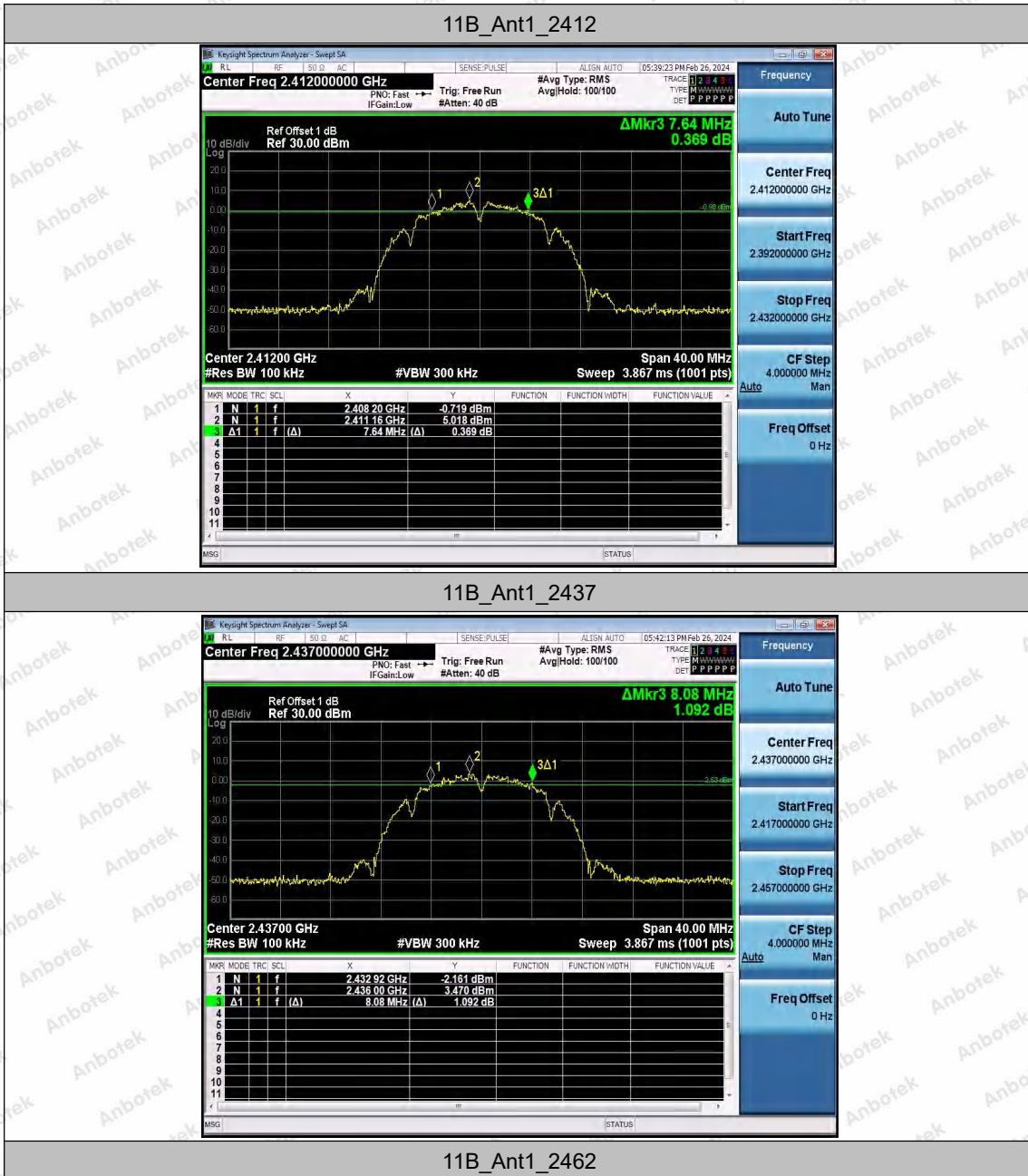
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

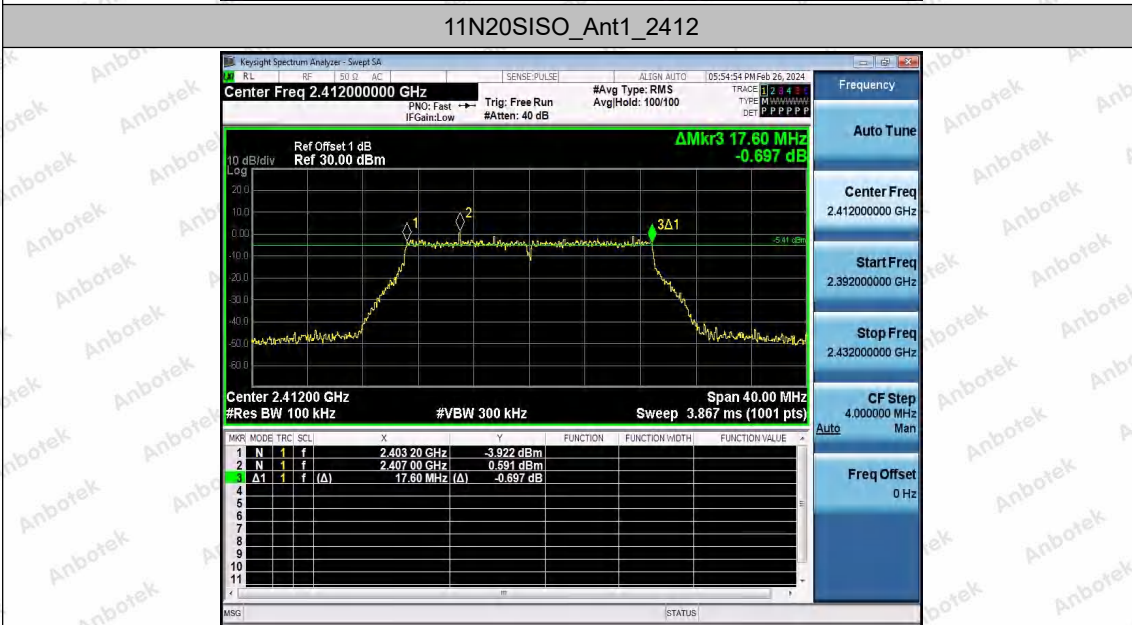
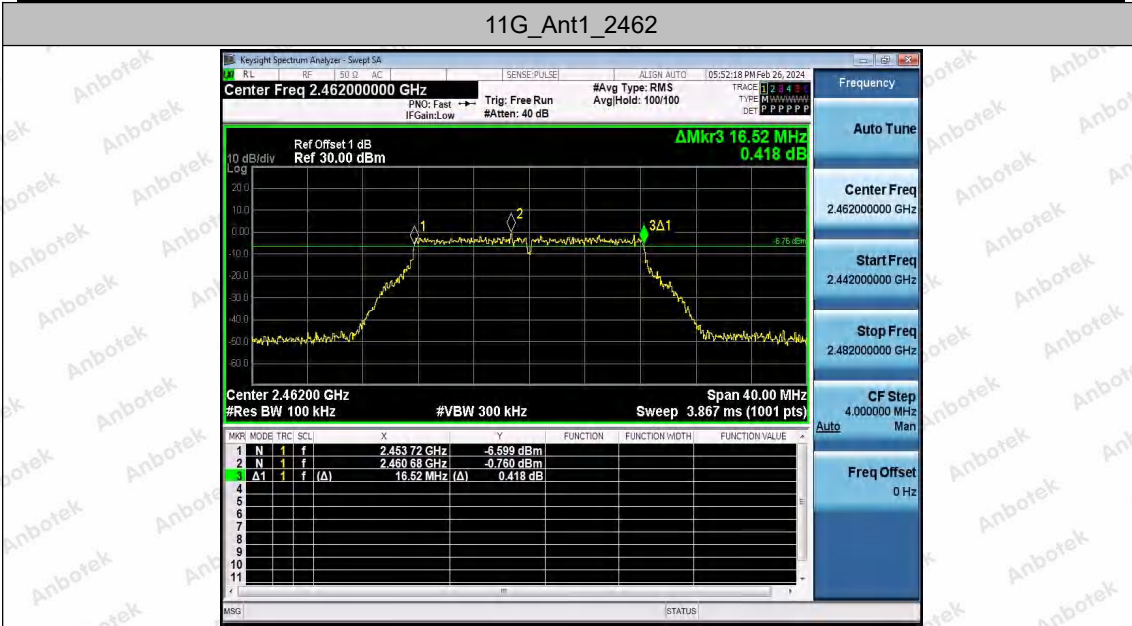


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11N20SISO_Ant1_2437

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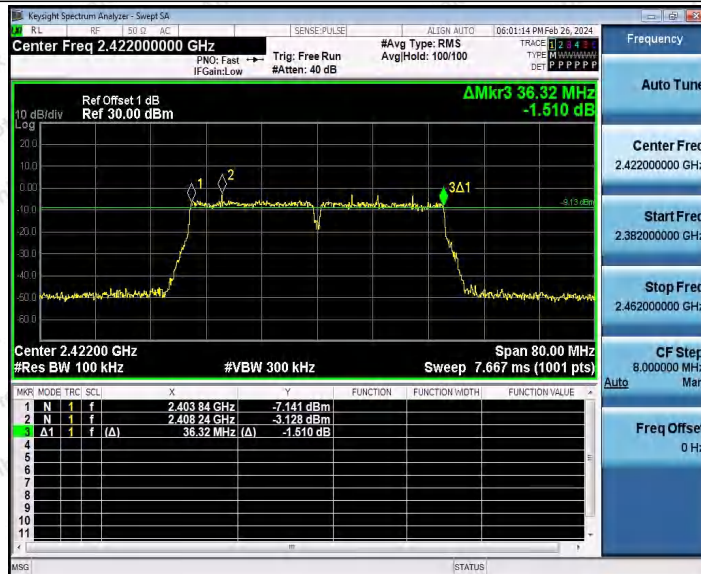




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



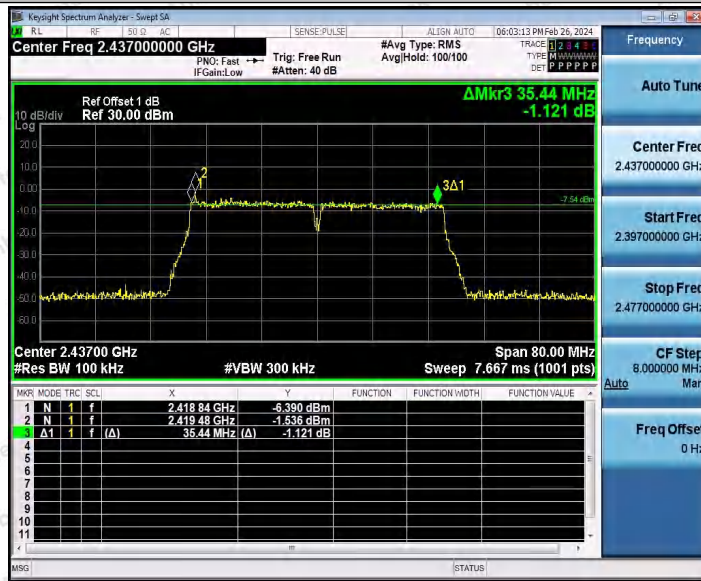
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



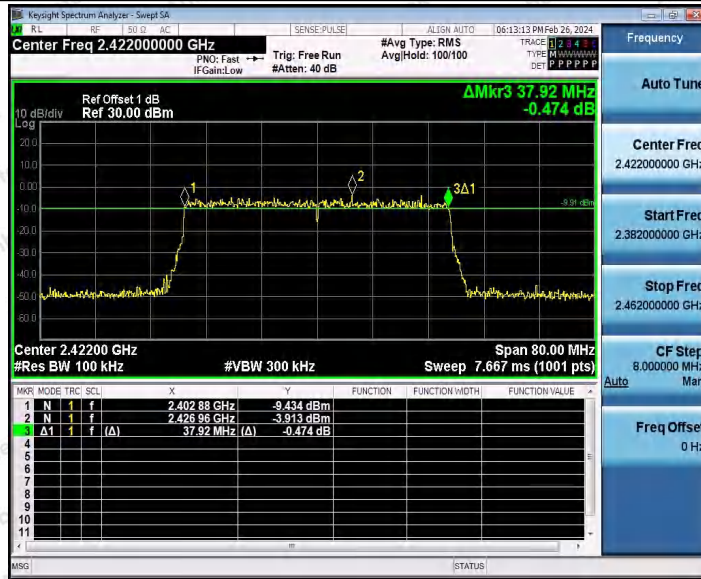
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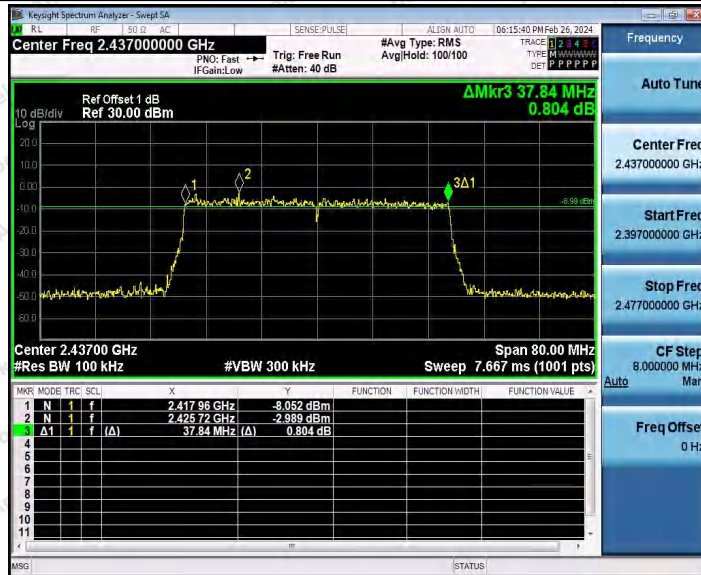
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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



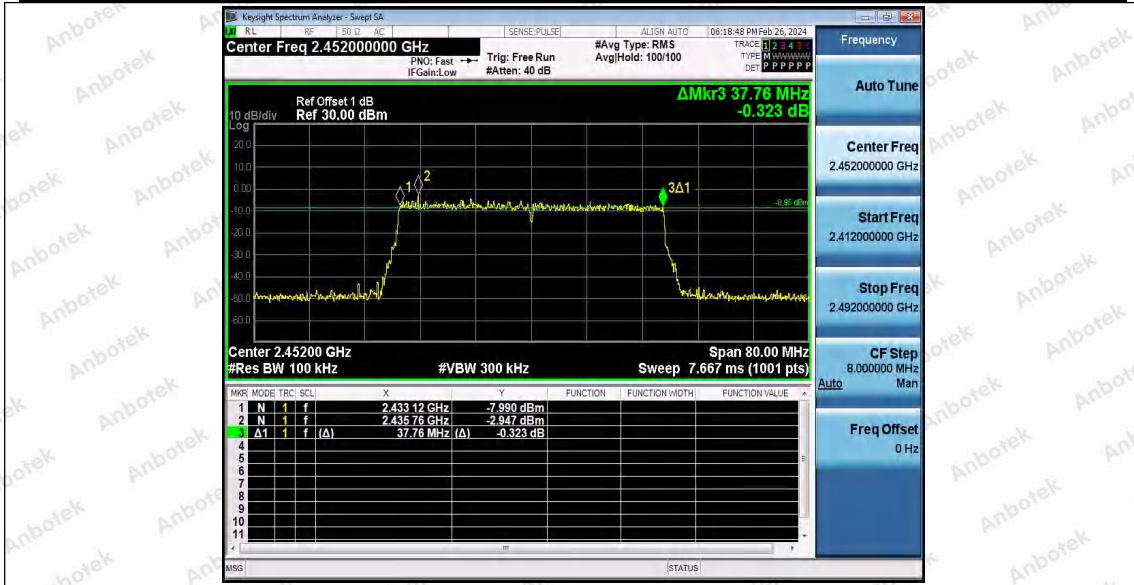
11AX40SISO_Ant1_2452

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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	12.120	2405.9597	2418.0797	---	---
		2437	12.139	2430.9130	2443.0520	---	---
		2462	12.139	2455.9450	2468.0840	---	---
11G	Ant1	2412	17.483	2403.2498	2420.7328	---	---
		2437	17.471	2428.2069	2445.6779	---	---
		2462	17.479	2453.2866	2470.7656	---	---
11N20SISO	Ant1	2412	18.413	2402.8177	2421.2307	---	---
		2437	18.394	2427.7636	2446.1576	---	---
		2462	18.372	2452.8039	2471.1759	---	---
11N40SISO	Ant1	2422	36.496	2403.7510	2440.2470	---	---
		2437	36.651	2418.6703	2455.3213	---	---
		2452	36.708	2433.6219	2470.3299	---	---
11AX20SISO	Ant1	2412	19.321	2402.3800	2421.7010	---	---
		2437	19.231	2427.3689	2446.5999	---	---
		2462	19.321	2452.3314	2471.6524	---	---
11AX40SISO	Ant1	2422	37.927	2403.0600	2440.9870	---	---
		2437	37.981	2418.0074	2455.9884	---	---
		2452	38.057	2432.9576	2471.0146	---	---

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Test Graphs



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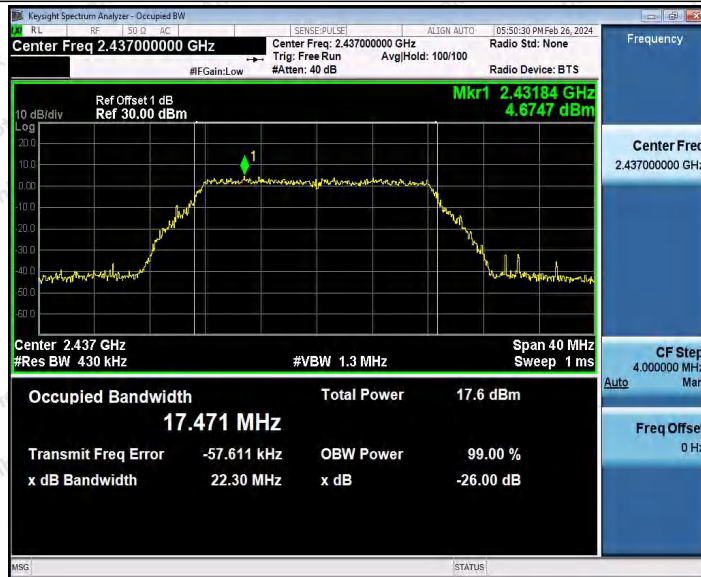




11G_Ant1_2412



11G_Ant1_2437



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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



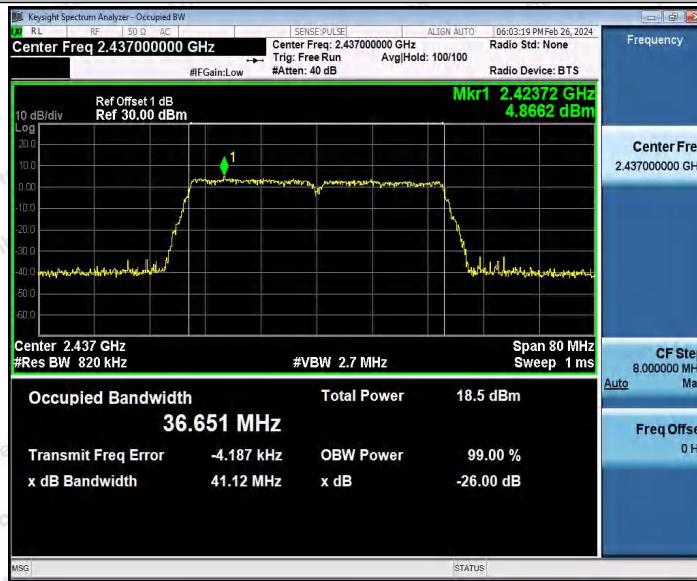
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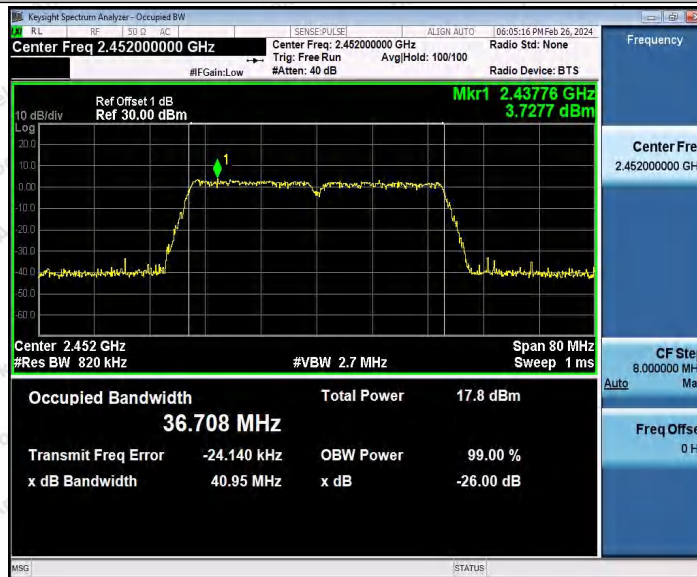
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



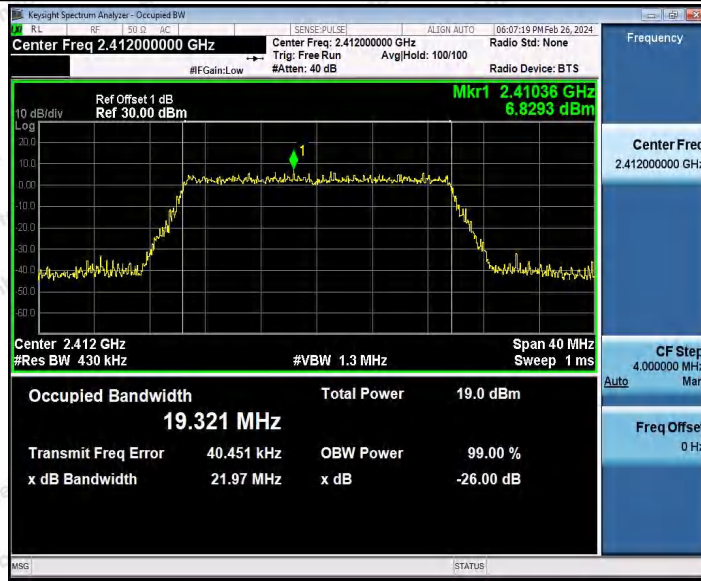
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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



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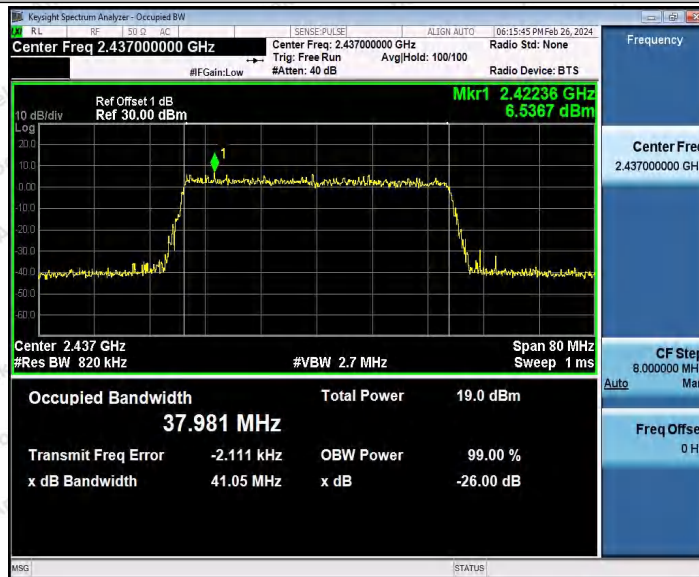
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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452

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Appendix C: Maximum conducted output power

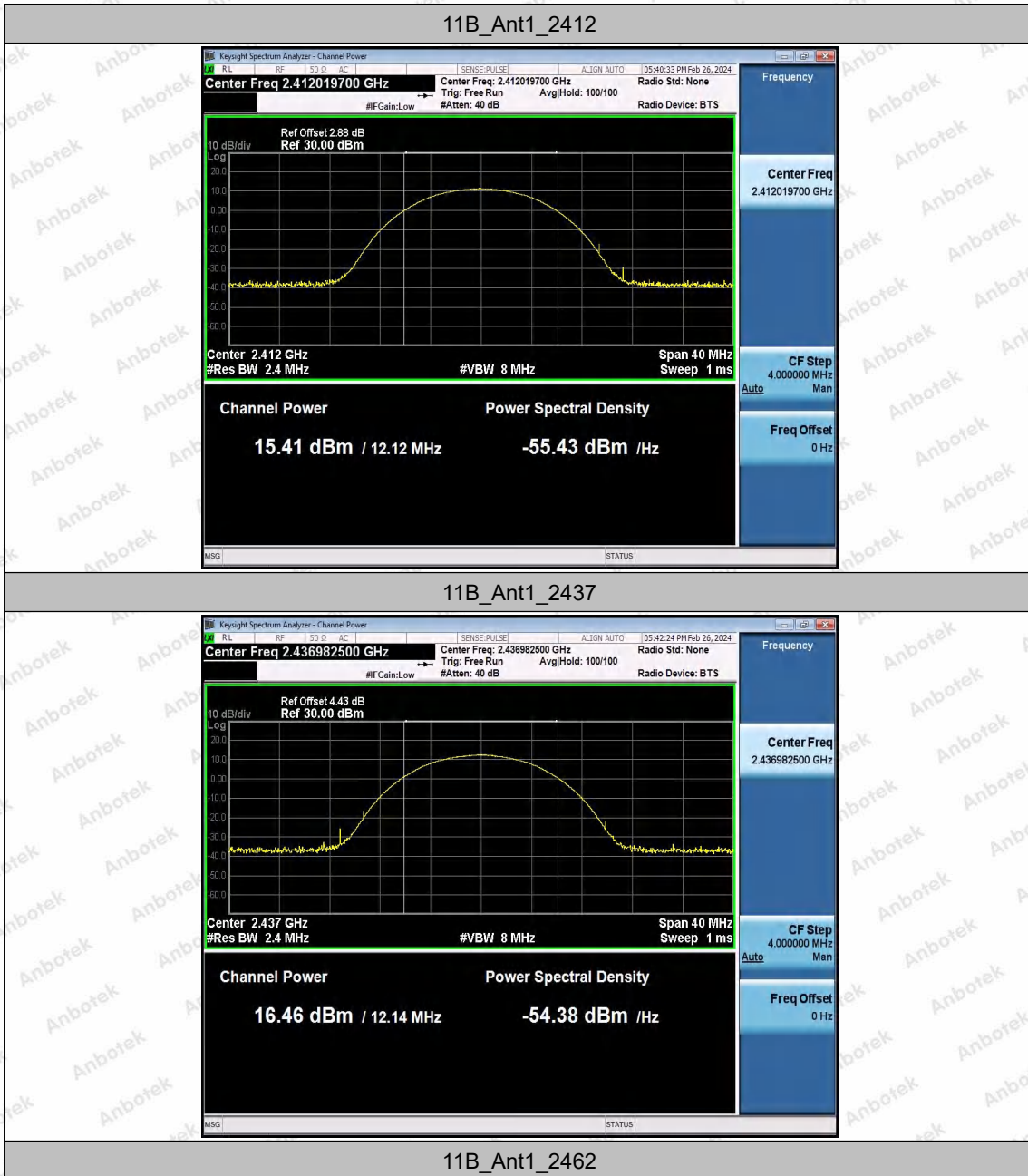
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.41	≤30.00
		2437	16.46	≤30.00
		2462	13.64	≤30.00
11G	Ant1	2412	15.26	≤30.00
		2437	15.54	≤30.00
		2462	15.83	≤30.00
11N20SISO	Ant1	2412	15.62	≤30.00
		2437	15.64	≤30.00
		2462	15.81	≤30.00
11N40SISO	Ant1	2422	15.11	≤30.00
		2437	15.48	≤30.00
		2452	14.80	≤30.00
11AX20SISO	Ant1	2412	16.36	≤30.00
		2437	16.31	≤30.00
		2462	16.39	≤30.00
11AX40SISO	Ant1	2422	15.72	≤30.00
		2437	15.84	≤30.00
		2452	15.31	≤30.00

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



Test Graphs

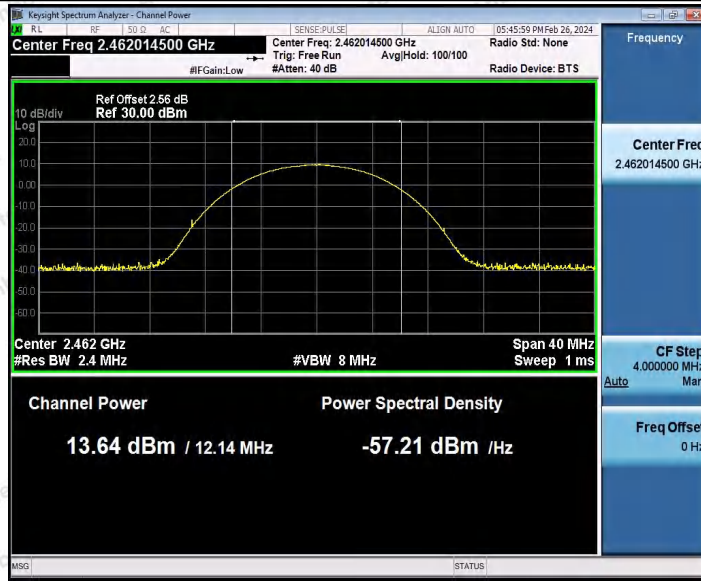


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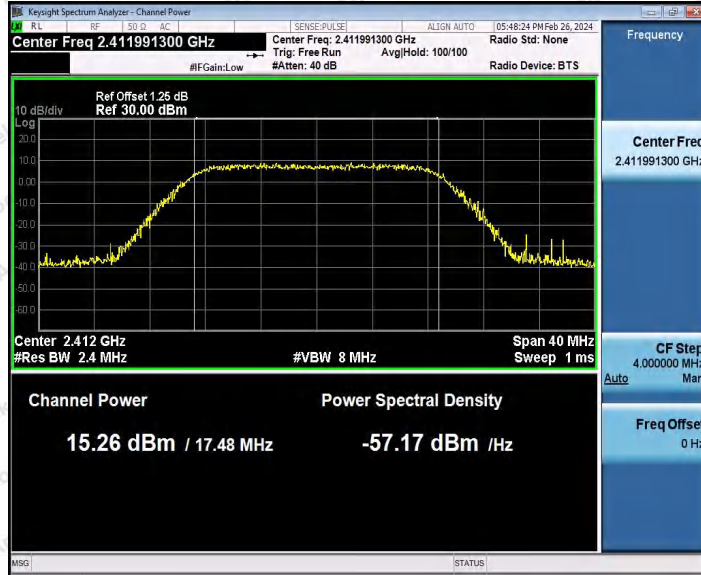
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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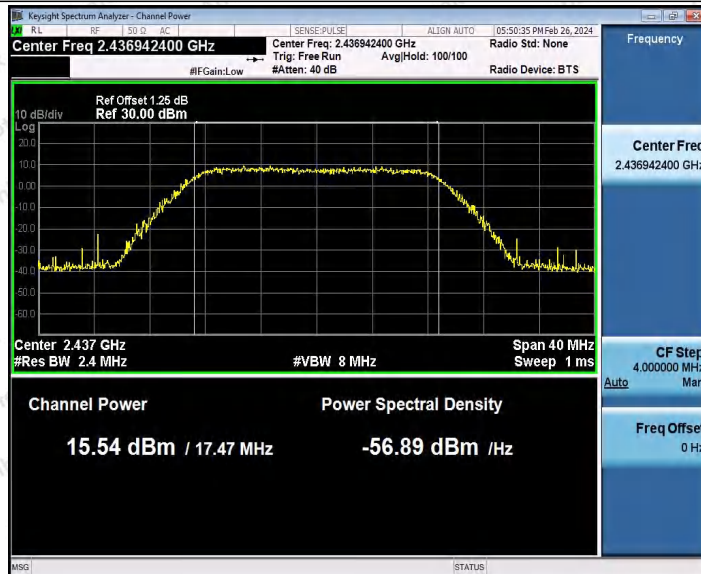




11G_Ant1_2412



11G_Ant1_2437

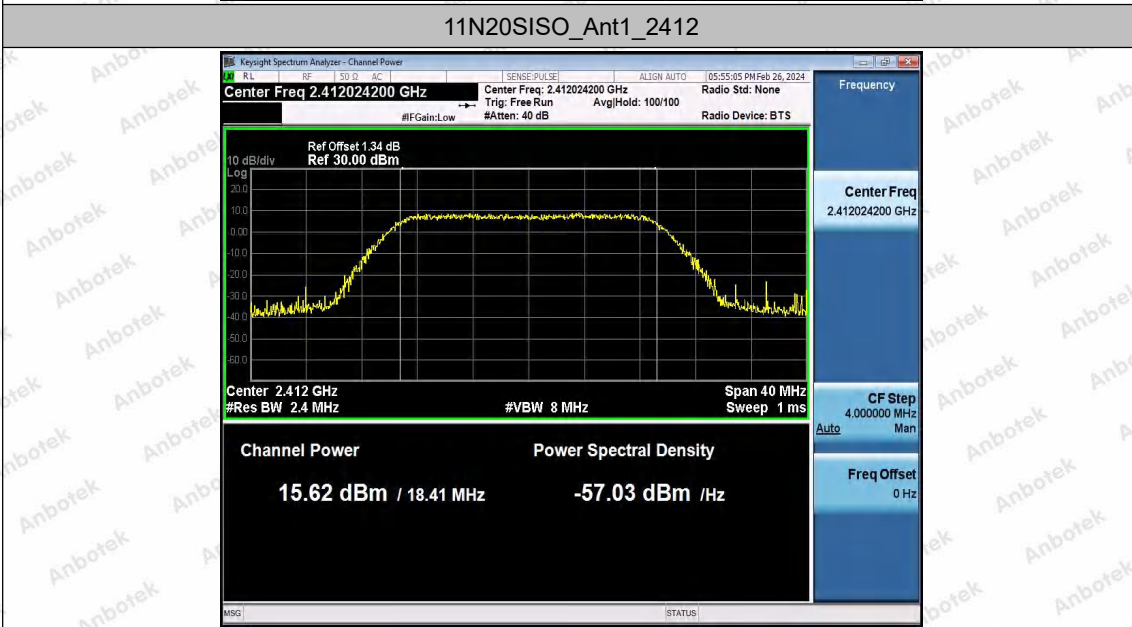
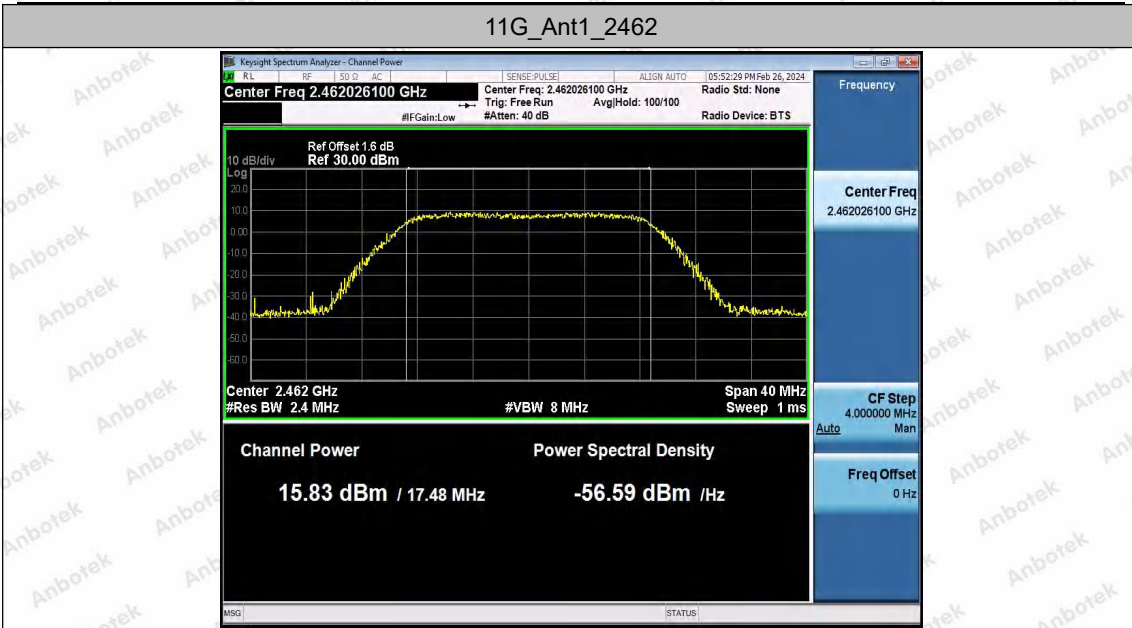


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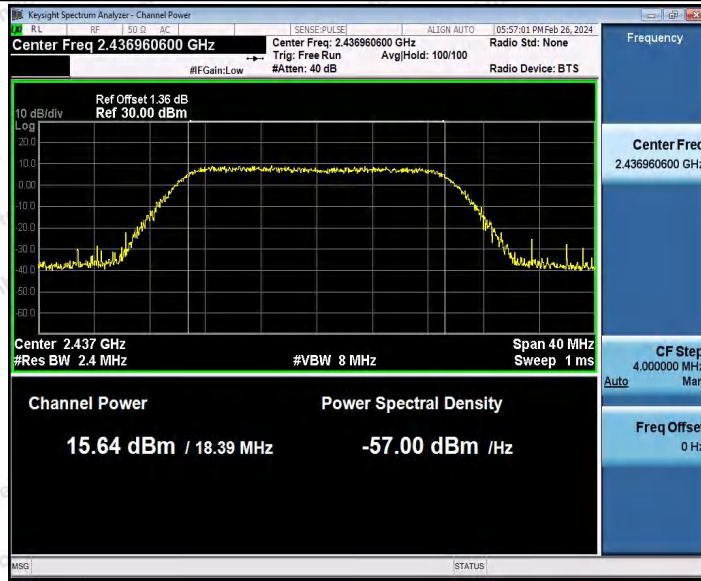
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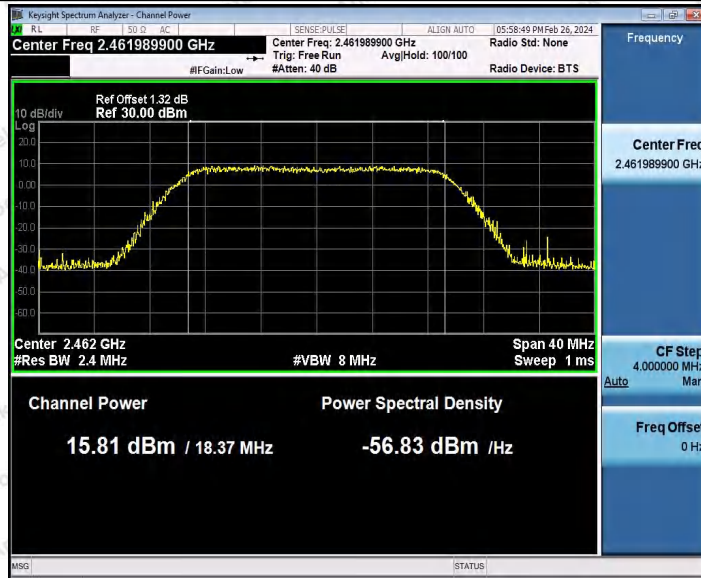
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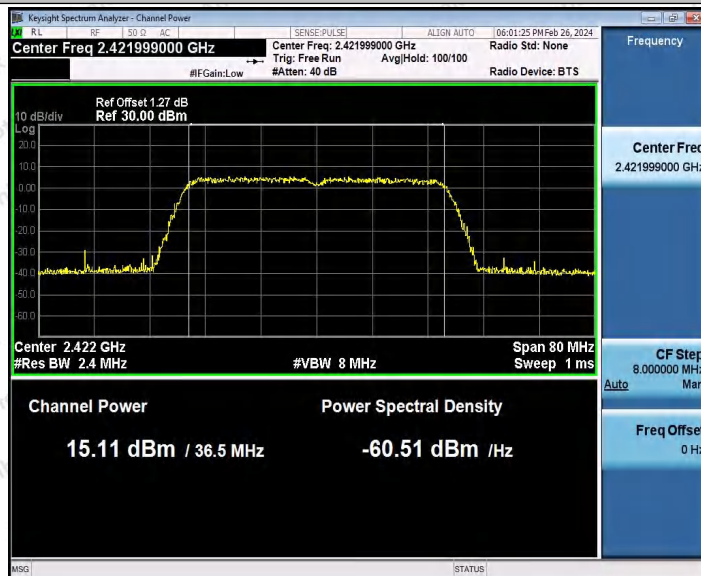




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



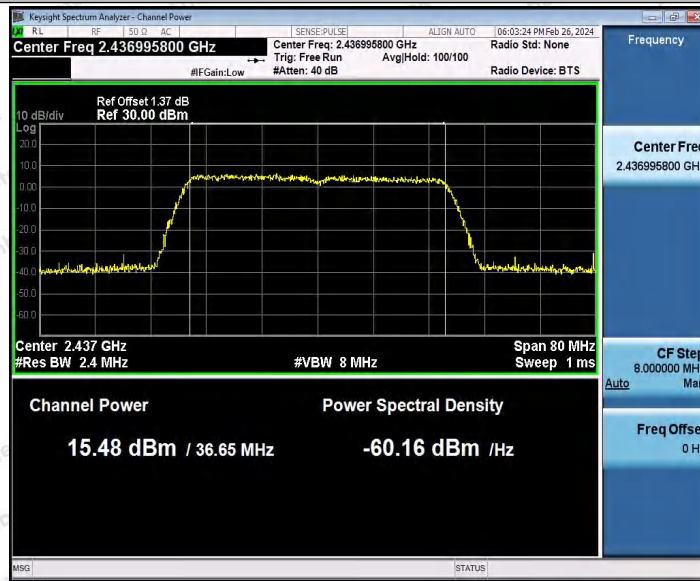
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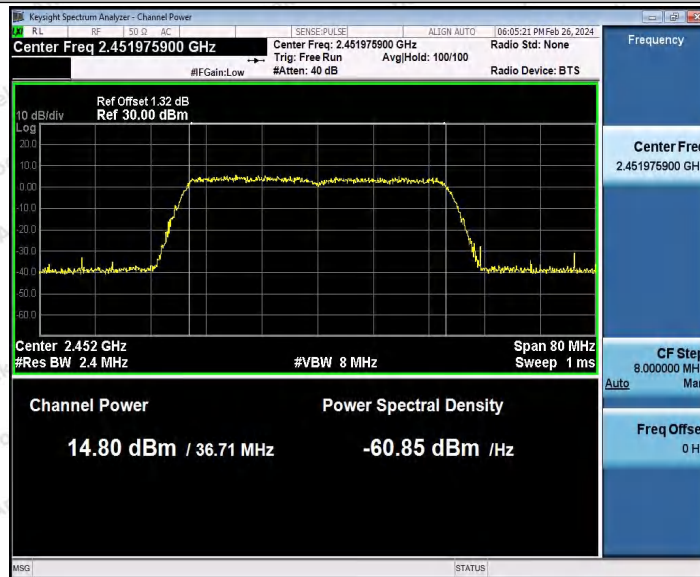
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



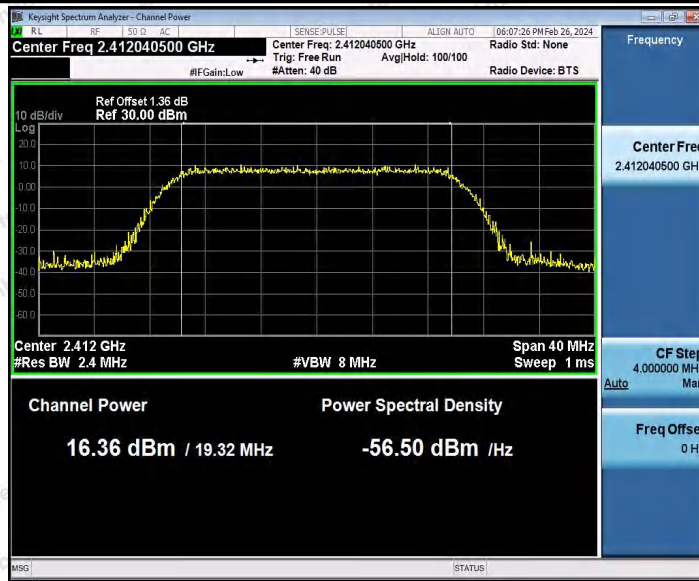
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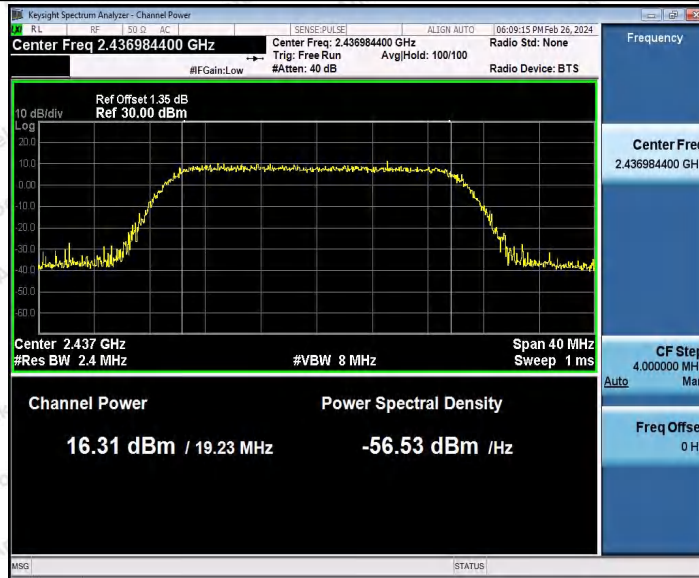
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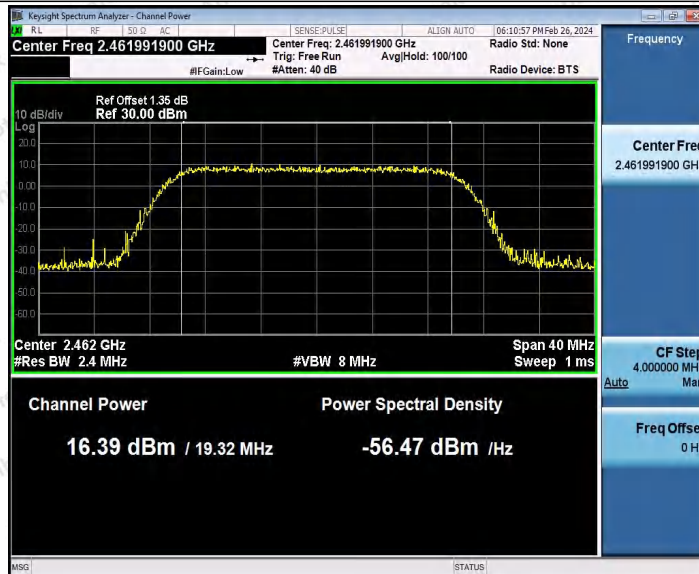




11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



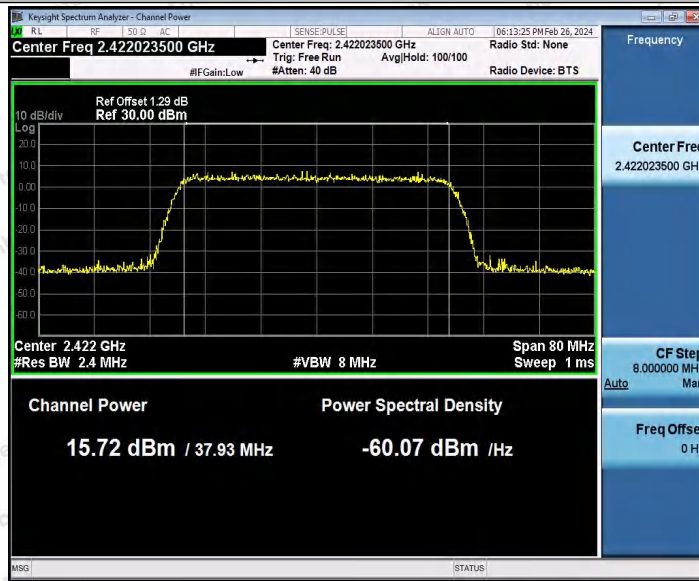
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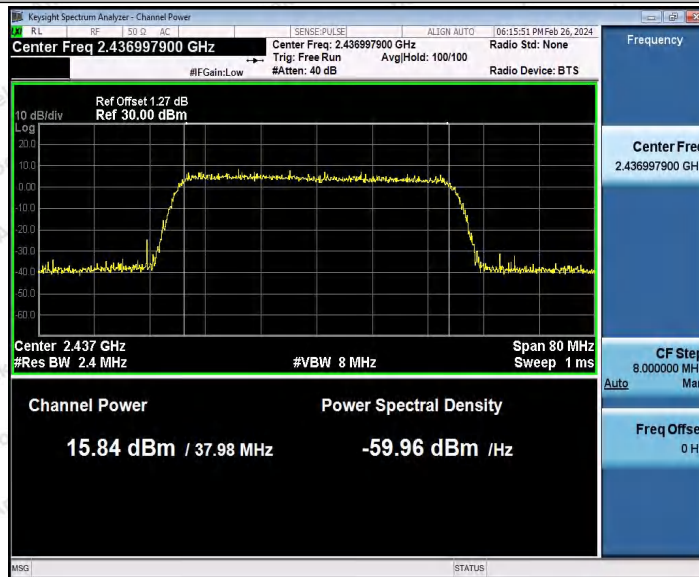
Hotline 400-003-0500
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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



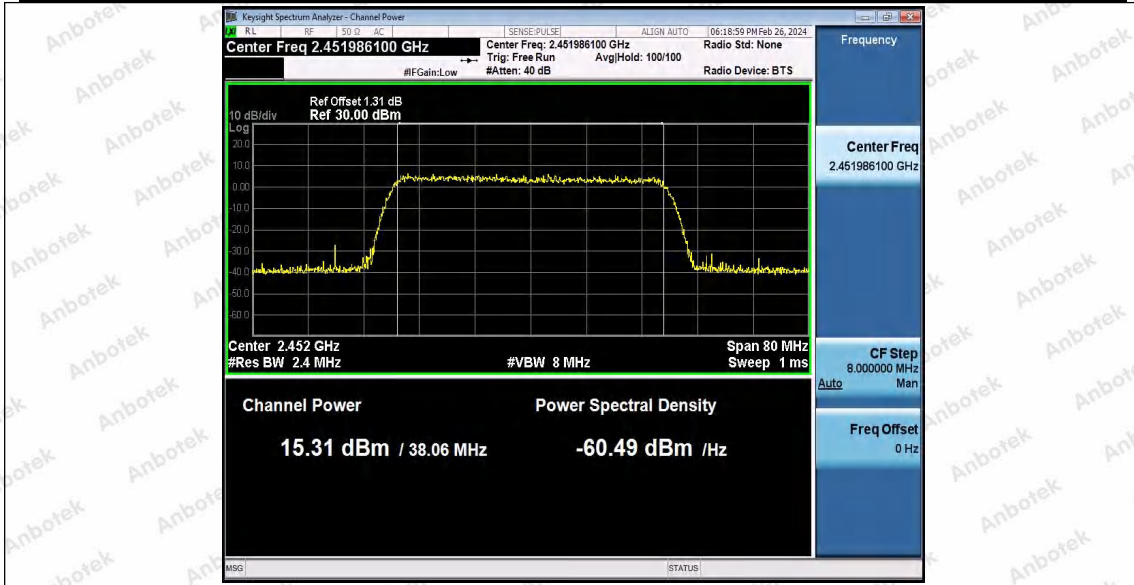
11AX40SISO_Ant1_2452

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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	-7.06	-17.06	≤8.00	PASS
		2437	-6.12	-16.12	≤8.00	PASS
		2462	-9.79	-19.79	≤8.00	PASS
11G	Ant1	2412	-14.60	-24.60	≤8.00	PASS
		2437	-13.63	-23.63	≤8.00	PASS
		2462	-13.82	-23.82	≤8.00	PASS
11N20SISO	Ant1	2412	-14.72	-24.72	≤8.00	PASS
		2437	-14.12	-24.12	≤8.00	PASS
		2462	-14.48	-24.48	≤8.00	PASS
11N40SISO	Ant1	2422	-18.00	-28.00	≤8.00	PASS
		2437	-17.43	-27.43	≤8.00	PASS
		2452	-18.67	-28.67	≤8.00	PASS
11AX20SISO	Ant1	2412	-15.73	-25.73	≤8.00	PASS
		2437	-14.81	-24.81	≤8.00	PASS
		2462	-16.14	-26.14	≤8.00	PASS
11AX40SISO	Ant1	2422	-19.51	-29.51	≤8.00	PASS
		2437	-19.14	-29.14	≤8.00	PASS
		2452	-20.53	-30.53	≤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

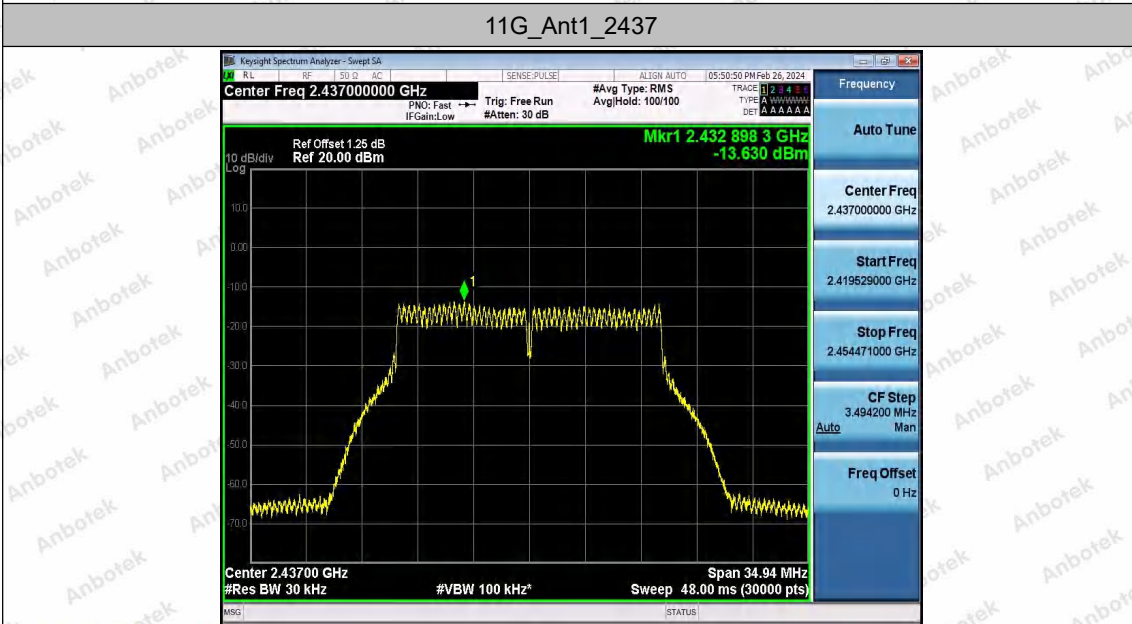
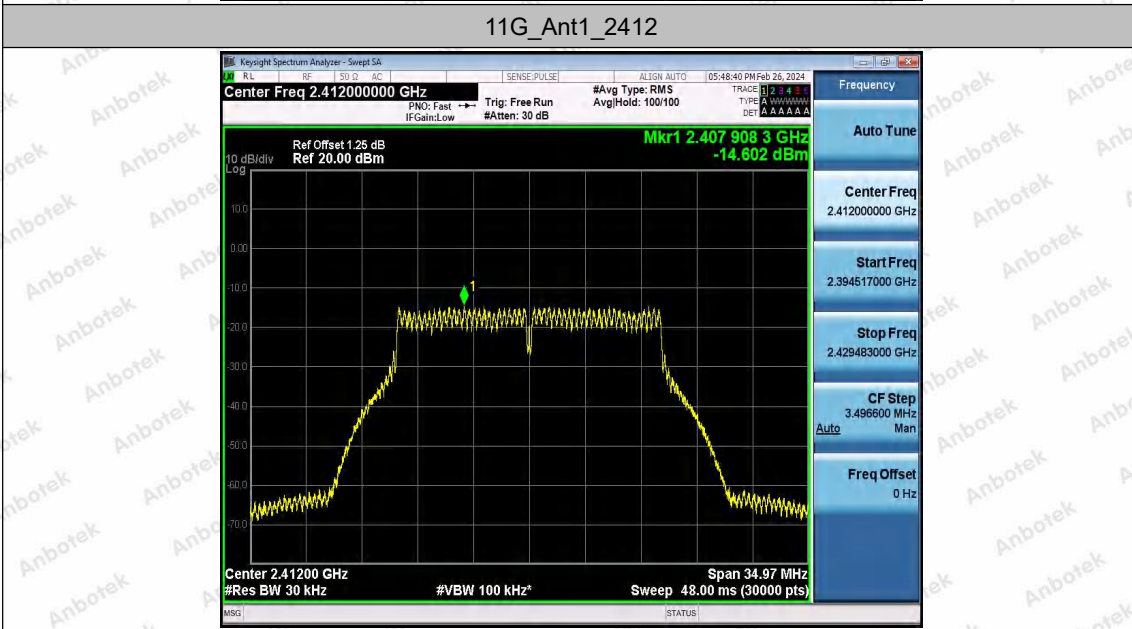


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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

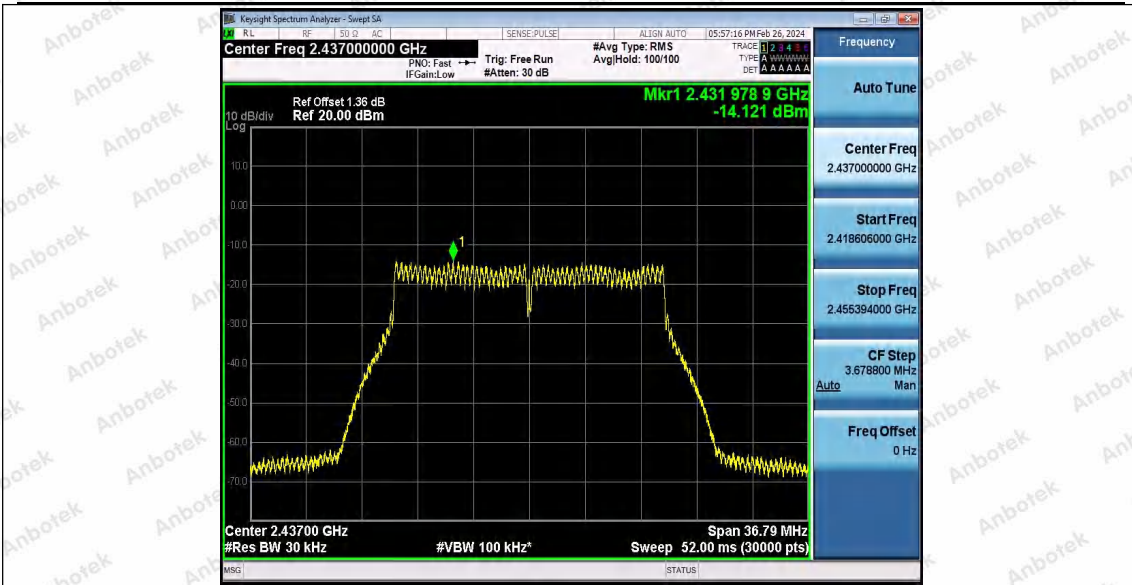
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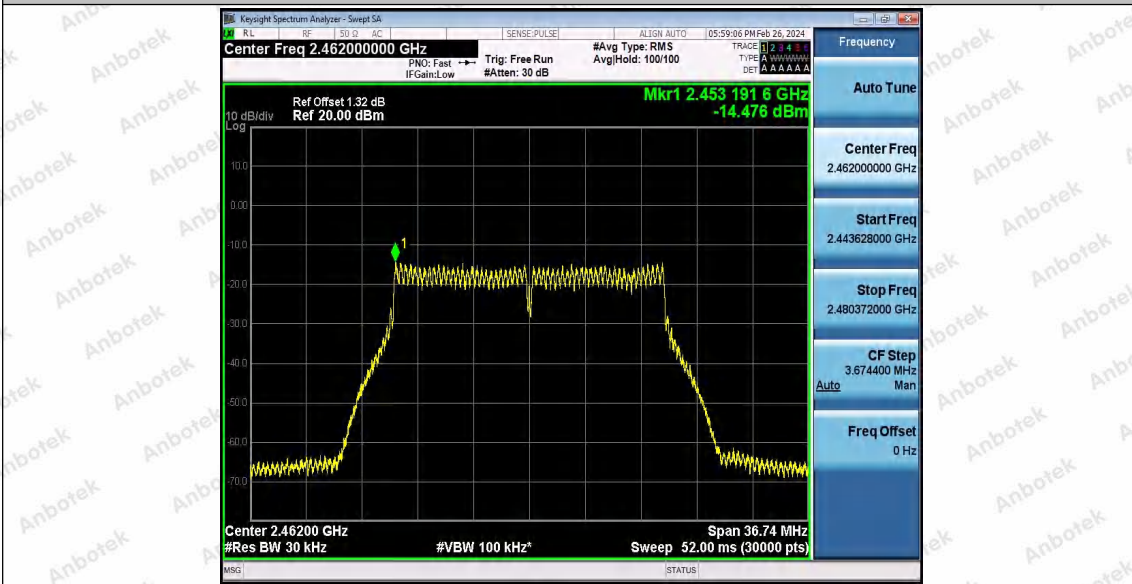


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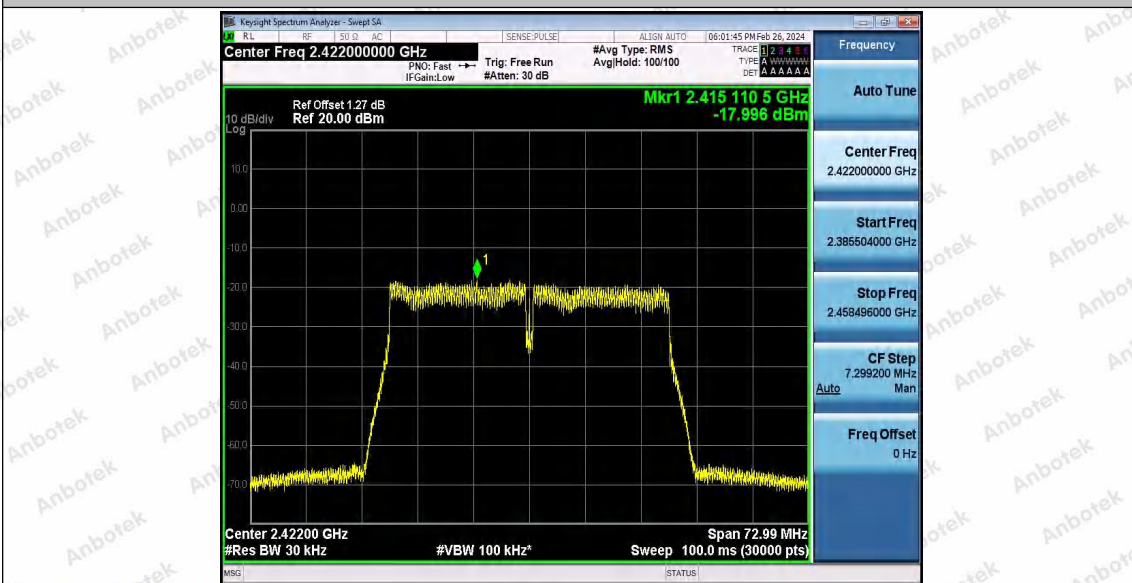




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452

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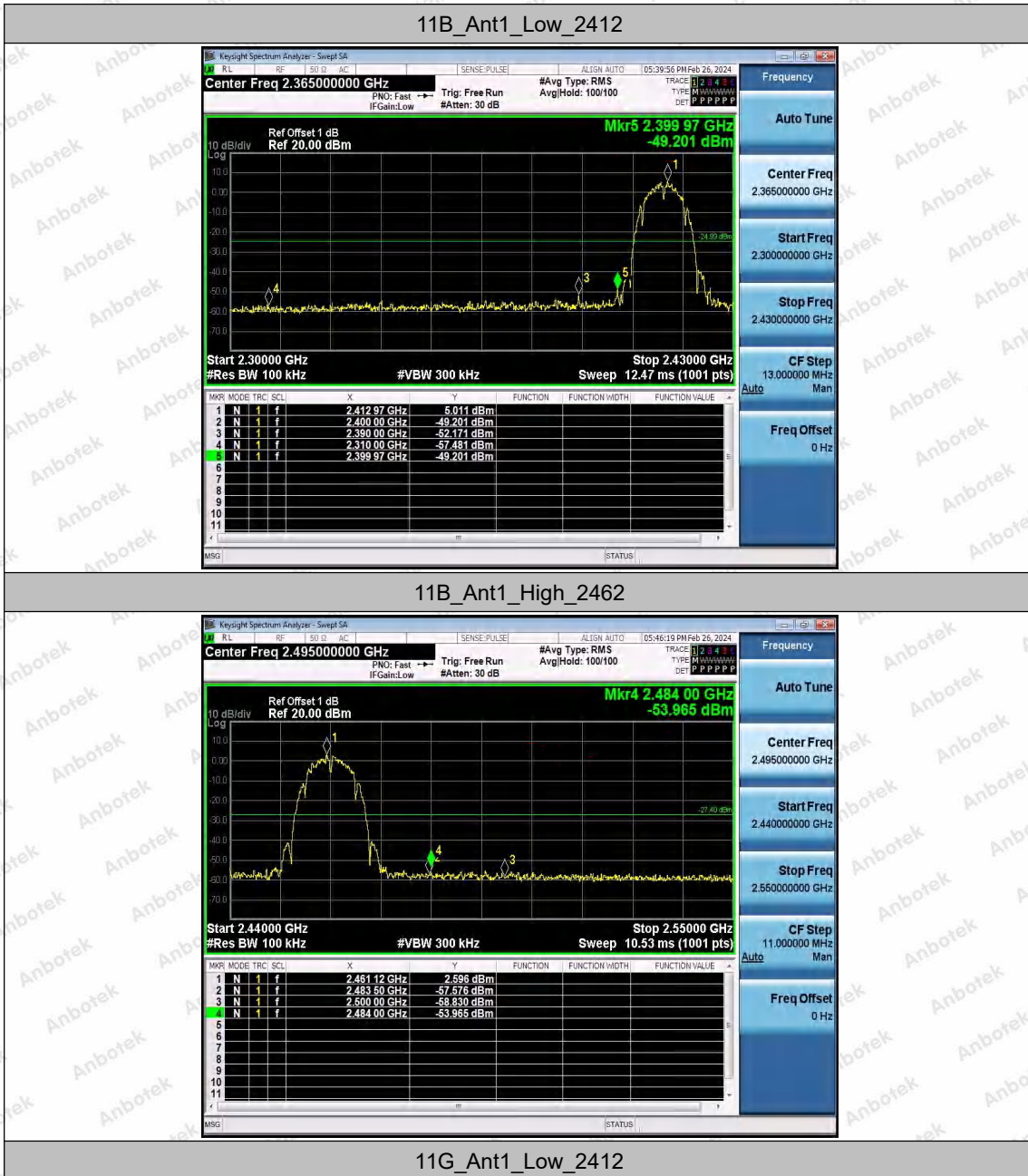
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.01	-49.2	≤-24.99	PASS
		High	2462	2.60	-53.97	≤-27.4	PASS
11G	Ant1	Low	2412	0.25	-42.71	≤-29.75	PASS
		High	2462	-0.35	-48.96	≤-30.35	PASS
11N20SISO	Ant1	Low	2412	0.56	-38.98	≤-29.44	PASS
		High	2462	-1.08	-49.23	≤-31.08	PASS
11N40SISO	Ant1	Low	2422	-3.64	-47.49	≤-33.64	PASS
		High	2452	-4.71	-51.14	≤-34.71	PASS
11AX20SISO	Ant1	Low	2412	-0.09	-39.35	≤-30.09	PASS
		High	2462	-1.40	-47.96	≤-31.4	PASS
11AX40SISO	Ant1	Low	2422	-3.90	-44.87	≤-33.9	PASS
		High	2452	-3.86	-50.59	≤-33.86	PASS



Test Graphs



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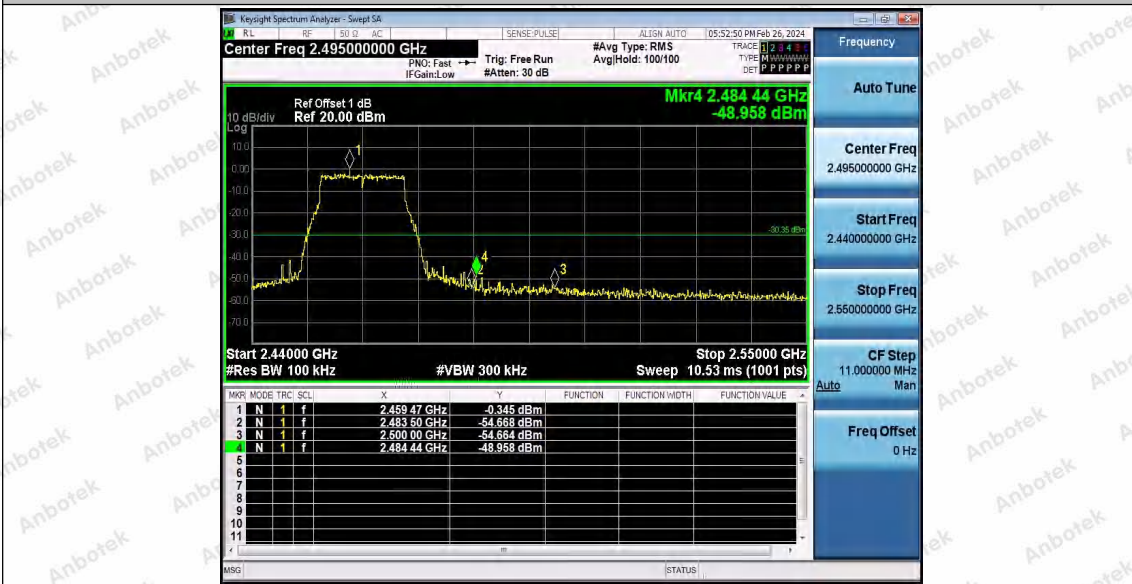
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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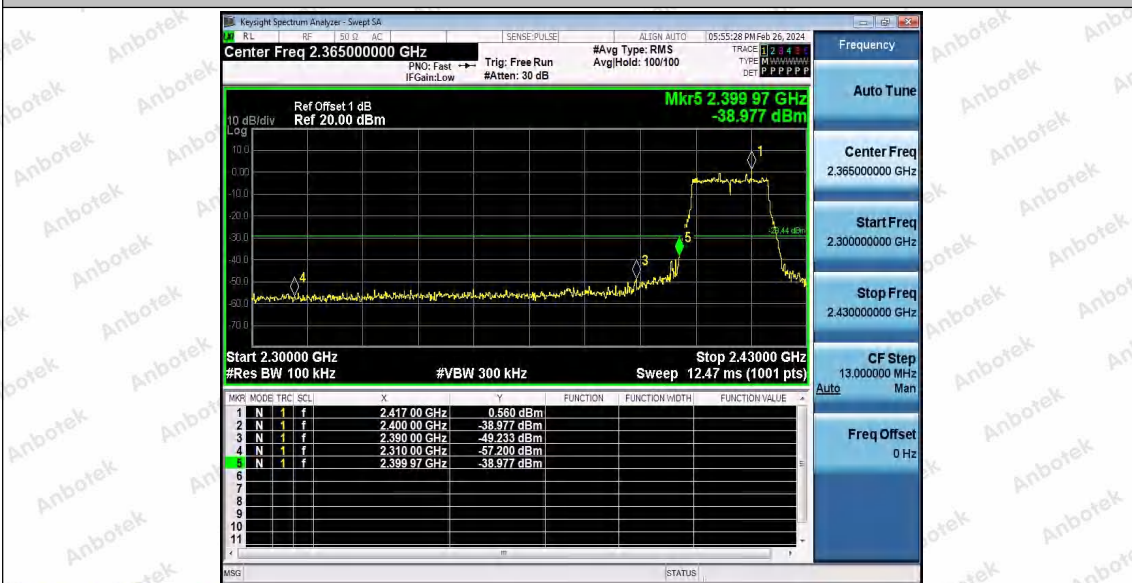




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



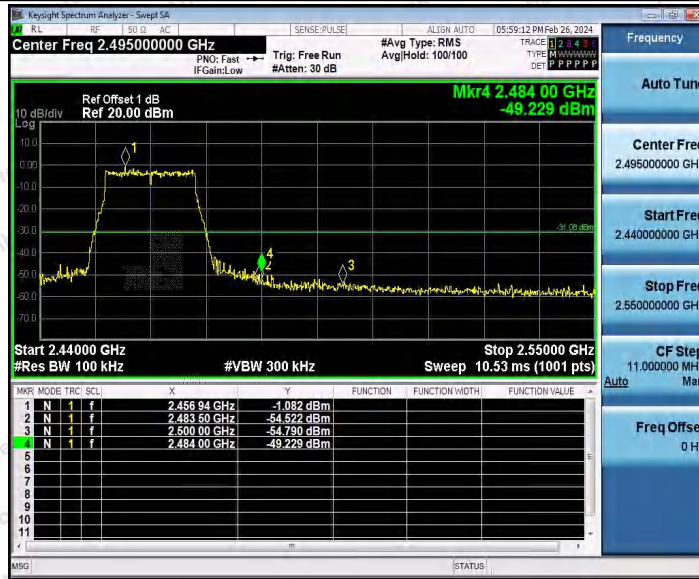
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

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