

Appendix Test Data

Report No.:	18220WC40032203	Test Sample No.:	1-2-2
Start Test Date:	2024.3.18	Finish Test Date:	2024.3.20
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.040	2428.840	2444.880	0.5	PASS
		2462	16.080	2454.080	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
		2437	17.040	2428.360	2445.400	0.5	PASS
		2462	14.040	2454.600	2468.640	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.760	2434.000	2469.760	0.5	PASS

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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

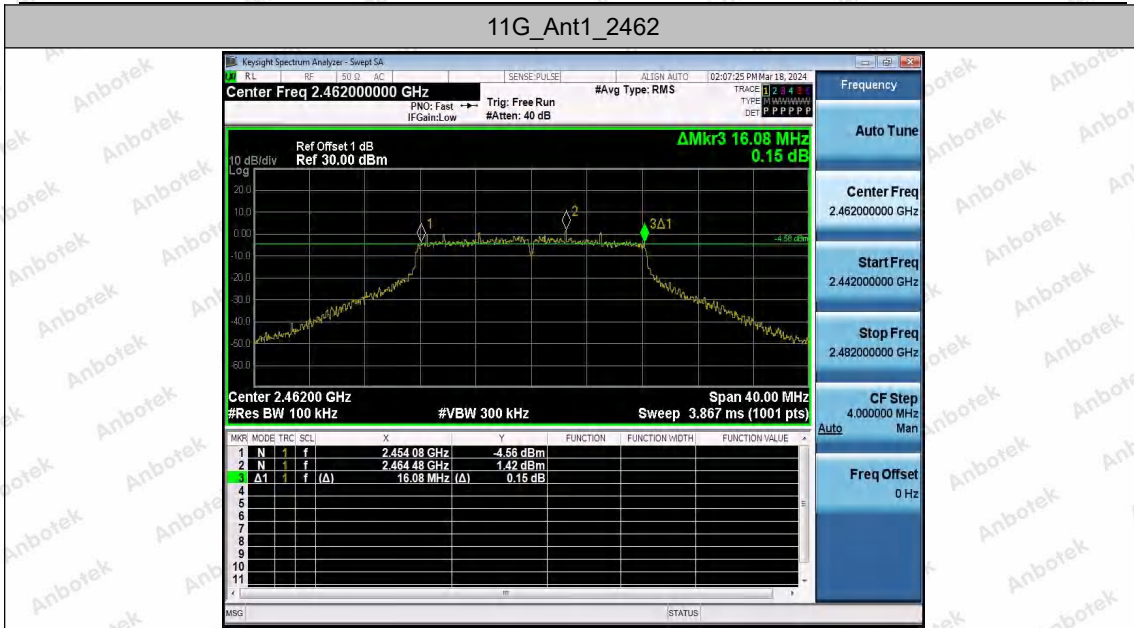


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11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



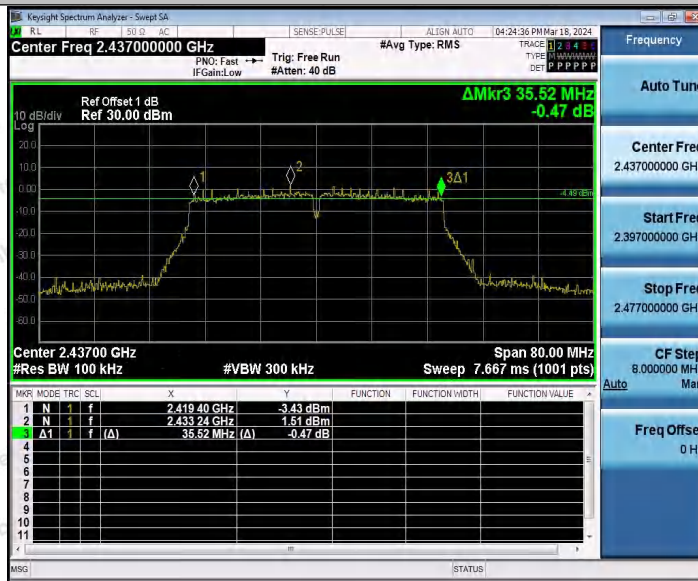
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.829	2405.2043	2419.0333	---	---
		2437	13.746	2430.1595	2443.9055	---	---
		2462	13.722	2455.1691	2468.8911	---	---
11G	Ant1	2412	16.886	2403.6064	2420.4924	---	---
		2437	16.863	2428.6062	2445.4692	---	---
		2462	16.923	2453.5194	2470.4424	---	---
11N20SISO	Ant1	2412	18.153	2402.9991	2421.1521	---	---
		2437	18.046	2427.9872	2446.0332	---	---
		2462	18.080	2452.9983	2471.0783	---	---
11N40SISO	Ant1	2422	36.346	2403.9654	2440.3114	---	---
		2437	36.378	2418.9641	2455.3421	---	---
		2452	36.334	2433.8565	2470.1905	---	---

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Test Graphs



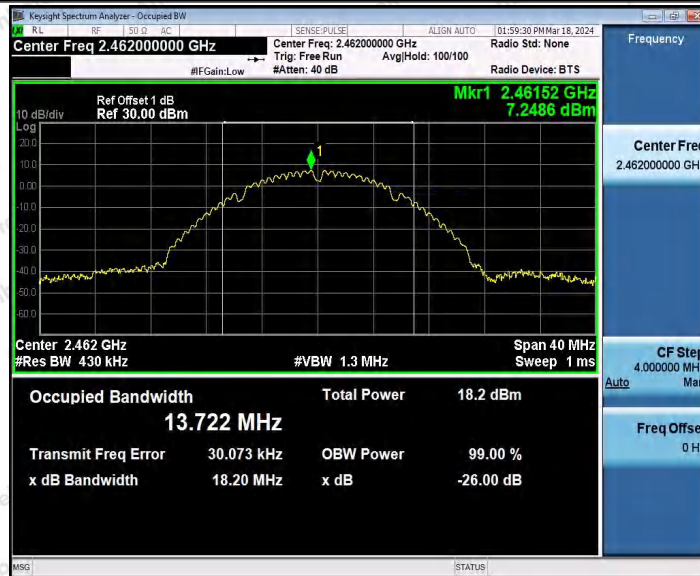
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11G_Ant1_2412



11G_Ant1_2437

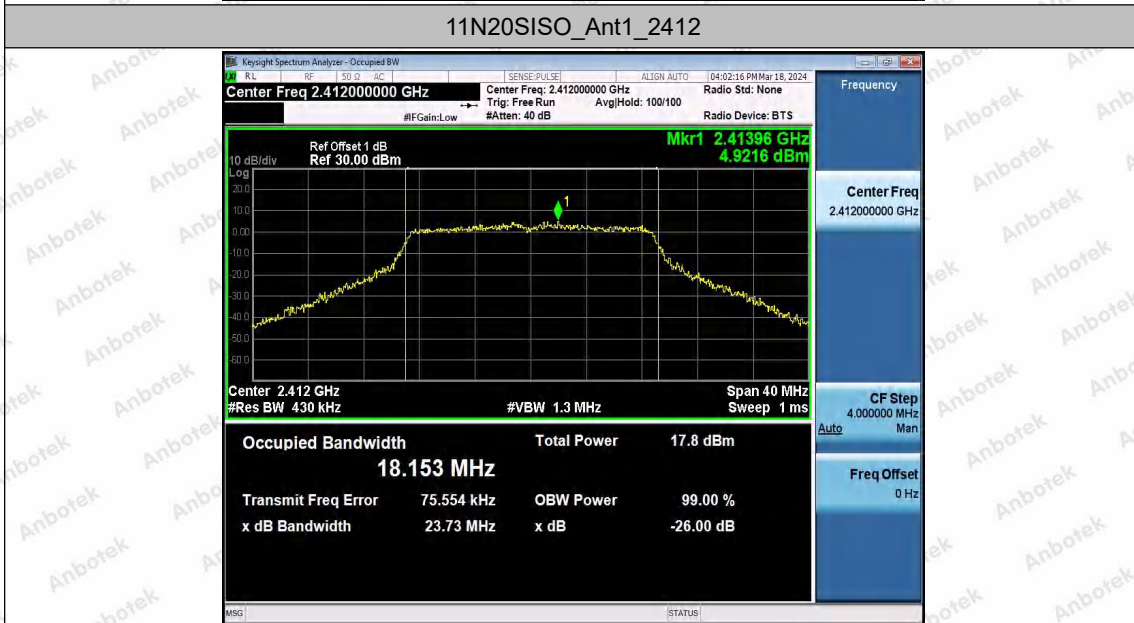
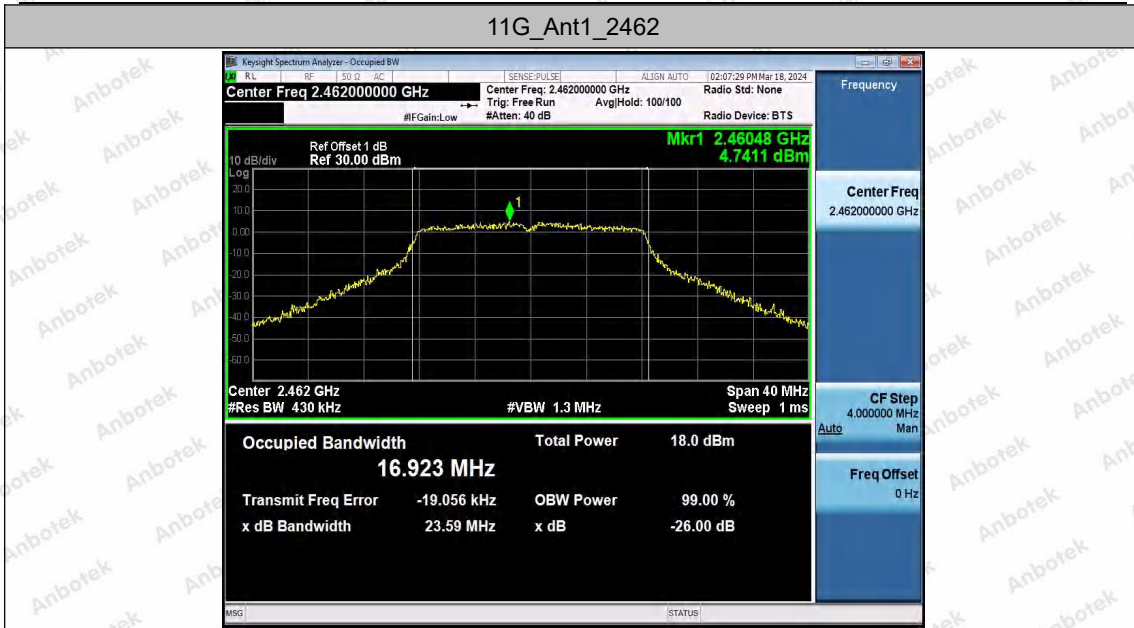


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11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



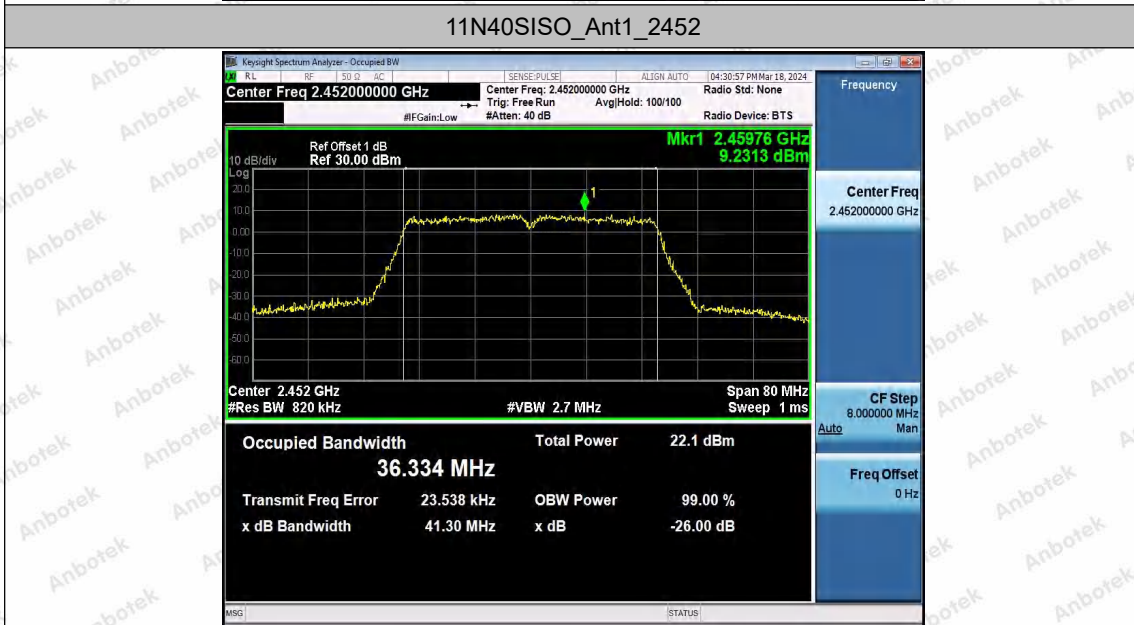
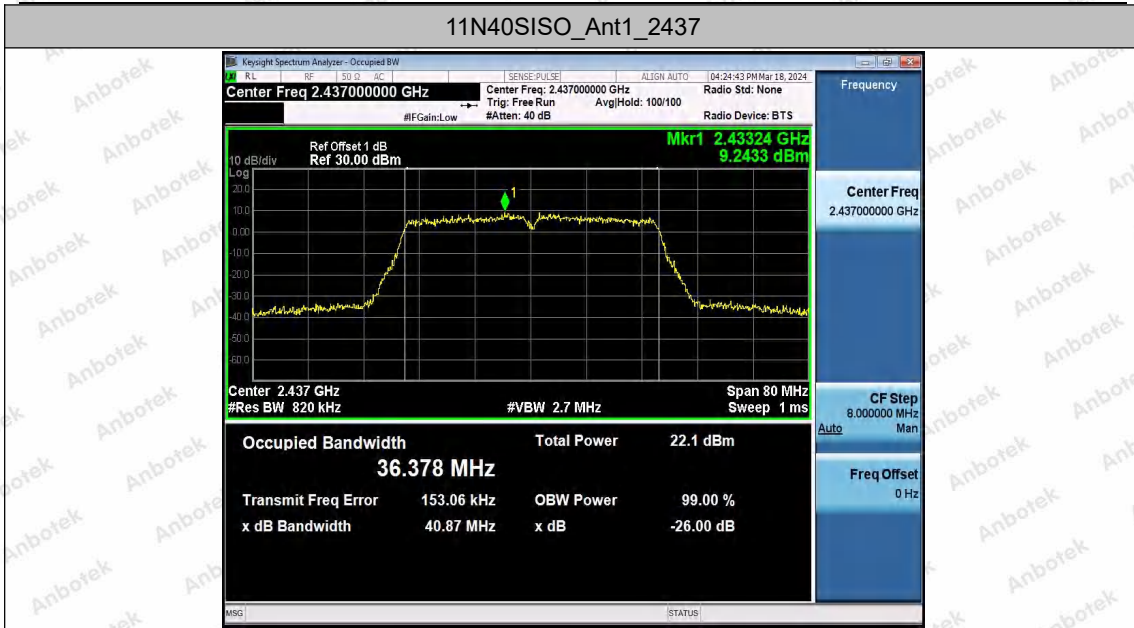
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Appendix C: Maximum conducted output power

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	---	16.29	99.03	0.04	16.33	≤30.00	PASS
		2437	---	17.09	99.11	0.04	17.13	≤30.00	PASS
		2462	---	16.62	99.03	0.04	16.66	≤30.00	PASS
11G	Ant1	2412	---	16.19	93.98	0.27	16.46	≤30.00	PASS
		2437	---	16.91	93.98	0.27	17.18	≤30.00	PASS
		2462	---	16.38	94.42	0.25	16.63	≤30.00	PASS
11N20 SISO	Ant1	2412	---	16.06	93.96	0.27	16.33	≤30.00	PASS
		2437	---	16.89	93.92	0.27	17.16	≤30.00	PASS
		2462	---	16.37	93.41	0.30	16.67	≤30.00	PASS
11N40 SISO	Ant1	2422	---	13.85	87.50	0.58	14.43	≤30.00	PASS
		2437	---	14.43	87.37	0.59	15.02	≤30.00	PASS
		2452	---	14.42	88.42	0.53	14.95	≤30.00	PASS

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

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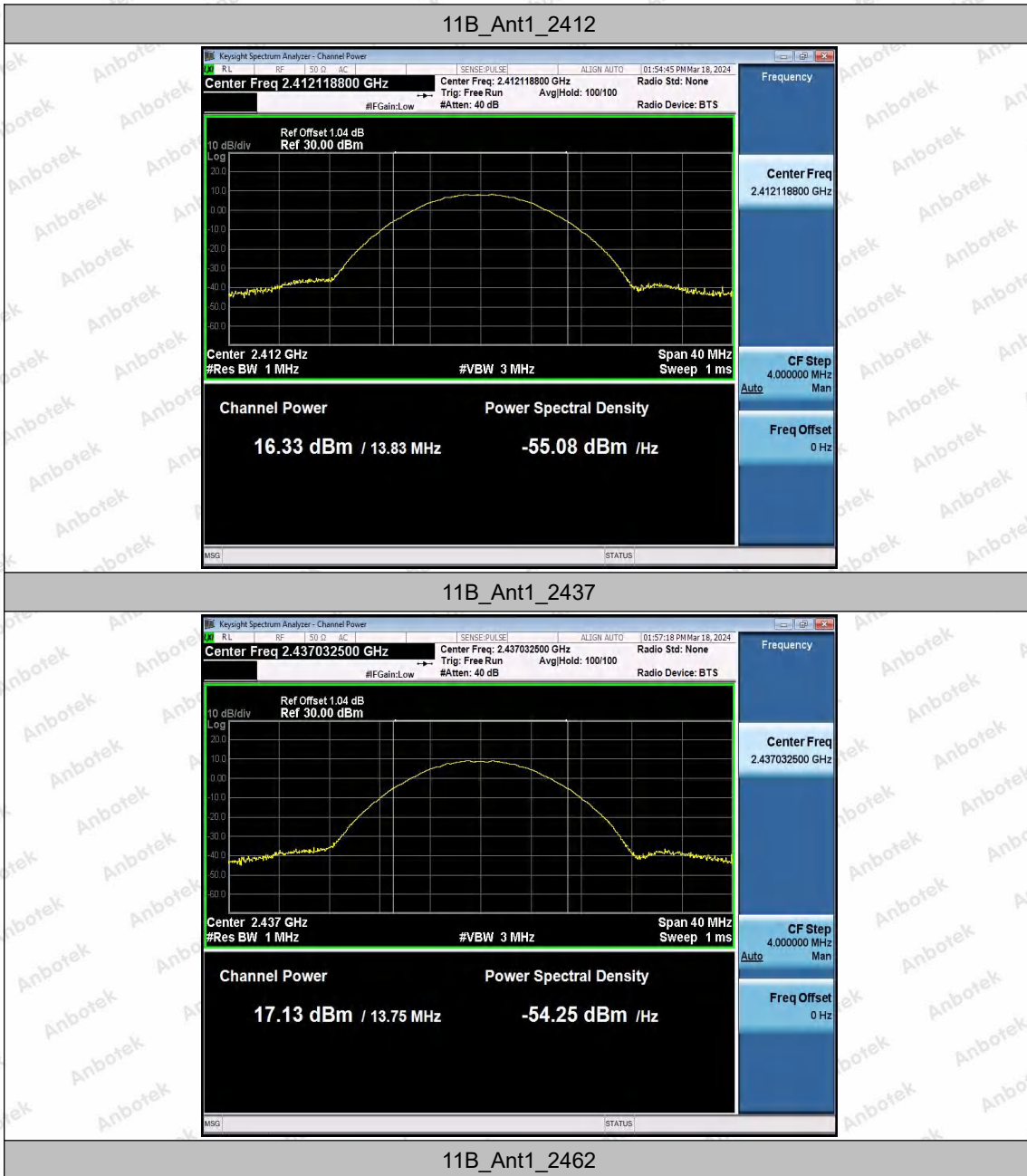
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Test Graphs



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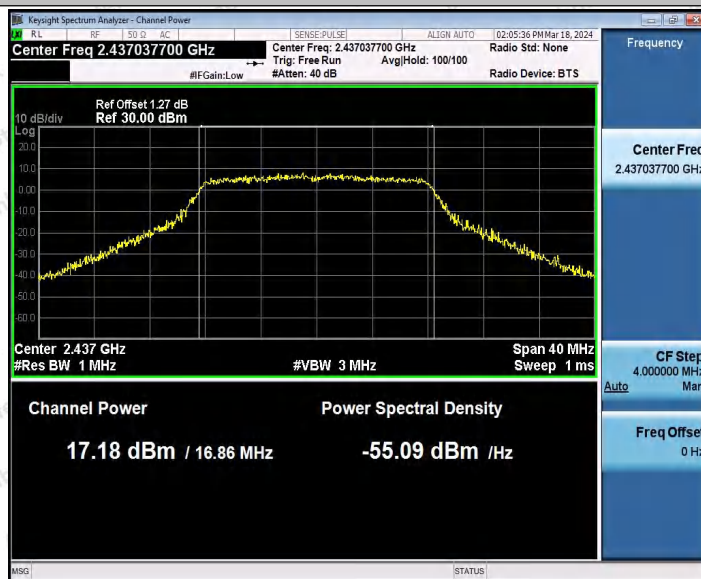




11G_Ant1_2412



11G_Ant1_2437



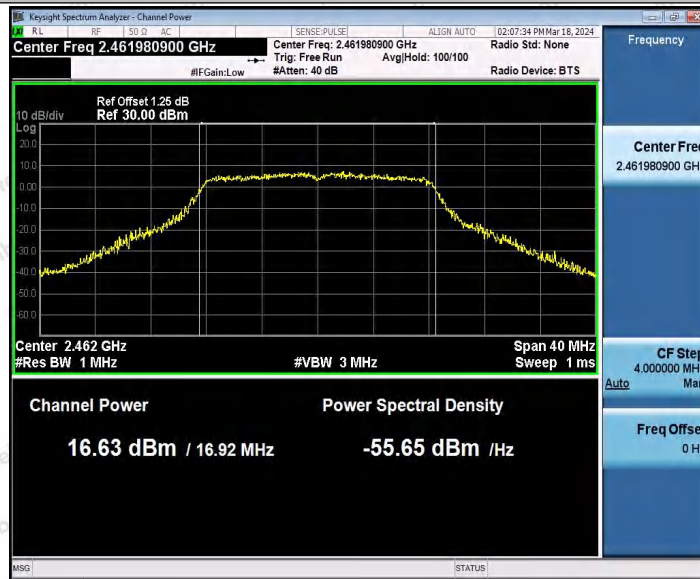
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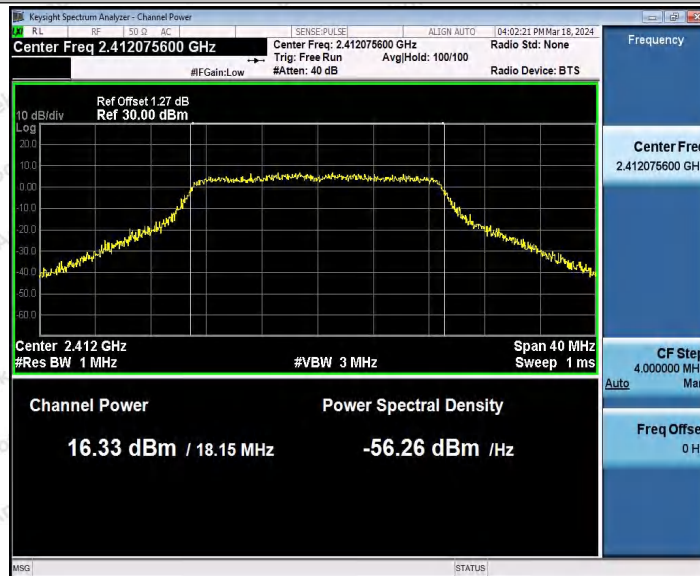
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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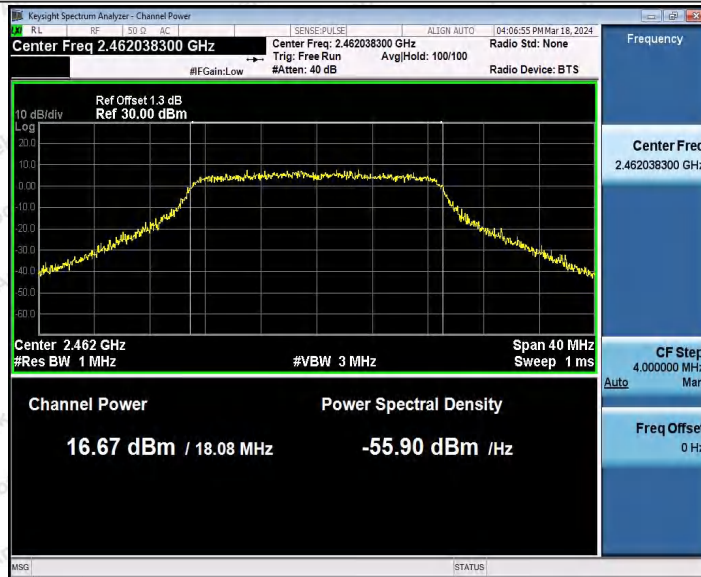
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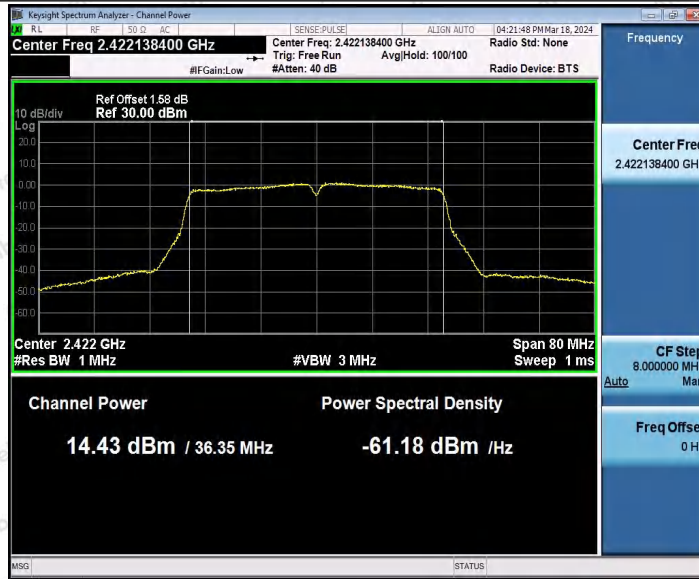




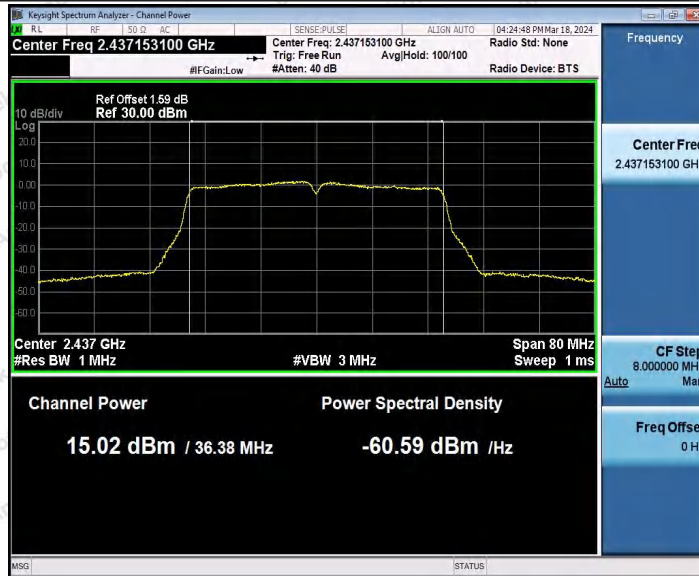
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



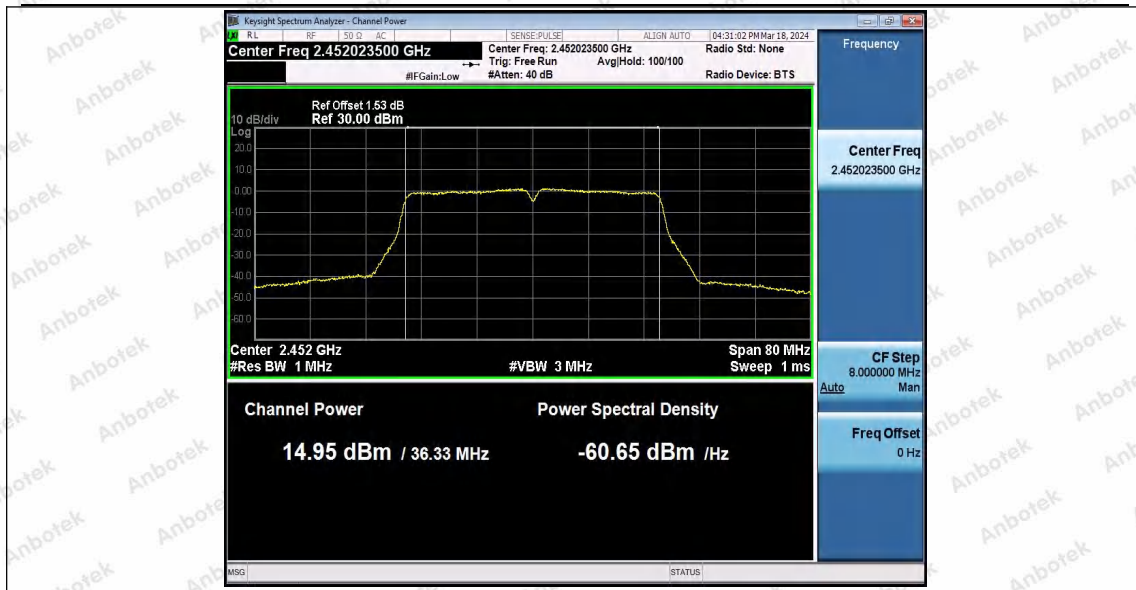
11N40SISO_Ant1_2452

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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
11B	Ant1	2412	-6.79	-16.79	≤8.00	PASS
		2437	-5.89	-15.89	≤8.00	PASS
		2462	-6.47	-16.47	≤8.00	PASS
11G	Ant1	2412	-12.15	-22.15	≤8.00	PASS
		2437	-11.18	-21.18	≤8.00	PASS
		2462	-10.93	-20.93	≤8.00	PASS
11N20SISO	Ant1	2412	-12.47	-22.47	≤8.00	PASS
		2437	-11.89	-21.89	≤8.00	PASS
		2462	-12.71	-22.71	≤8.00	PASS
11N40SISO	Ant1	2422	-12.75	-22.75	≤8.00	PASS
		2437	-12.03	-22.03	≤8.00	PASS
		2452	-12.26	-22.26	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

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Test Graphs



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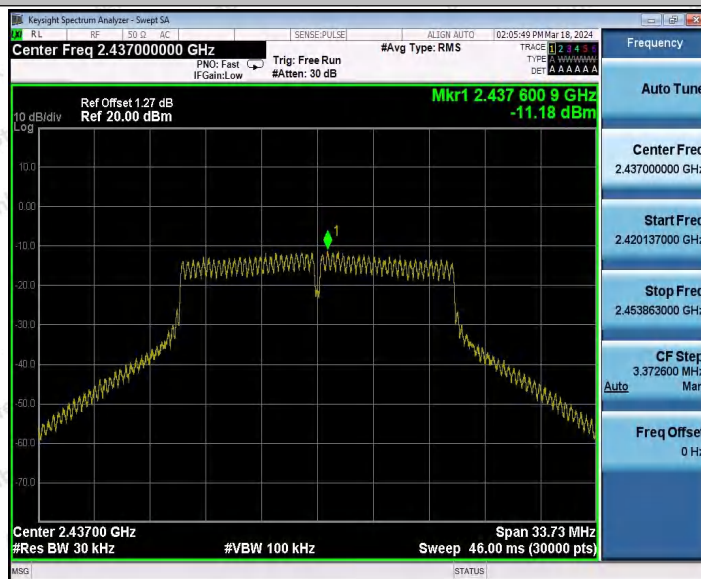




11G_Ant1_2412



11G_Ant1_2437



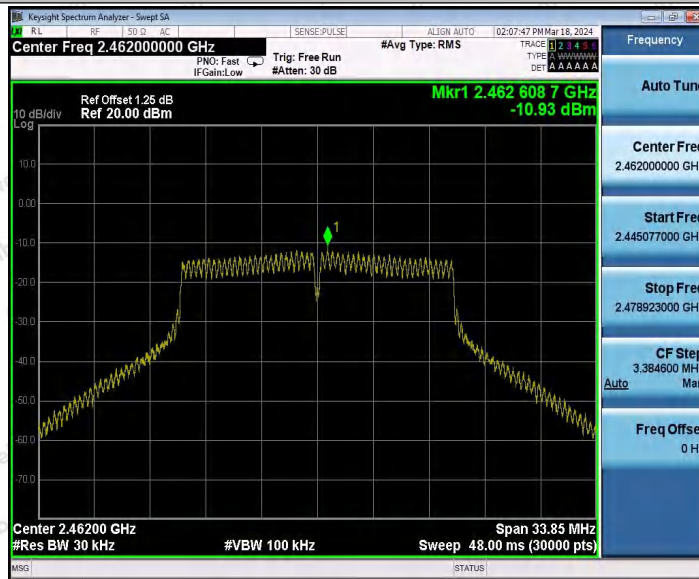
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11G_Ant1_2462



11N20SISO_Ant1_2412



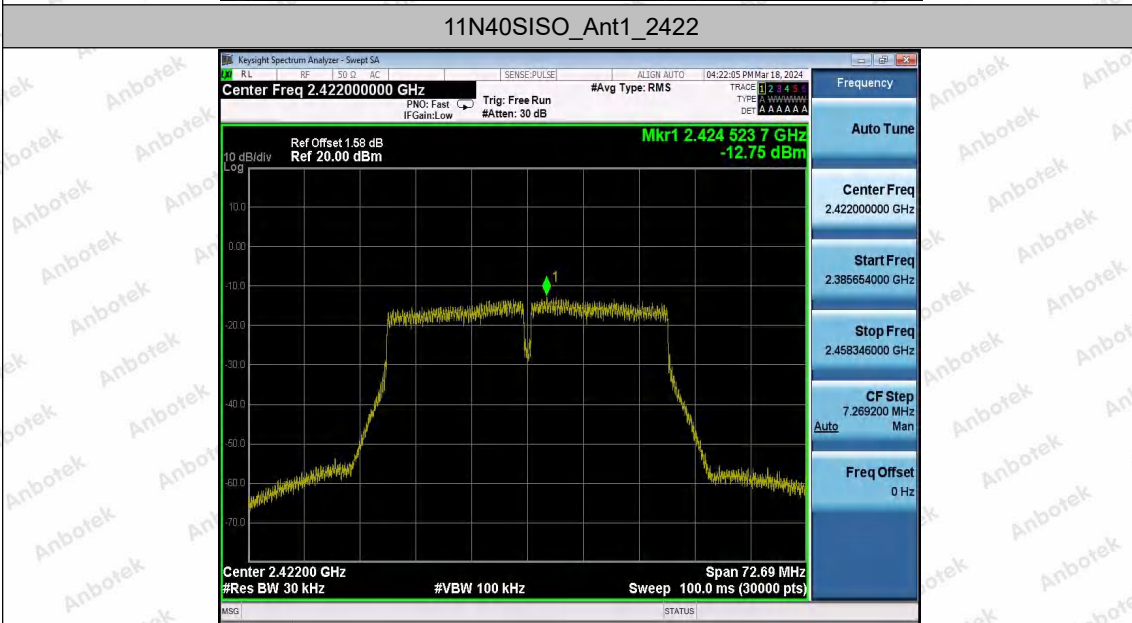
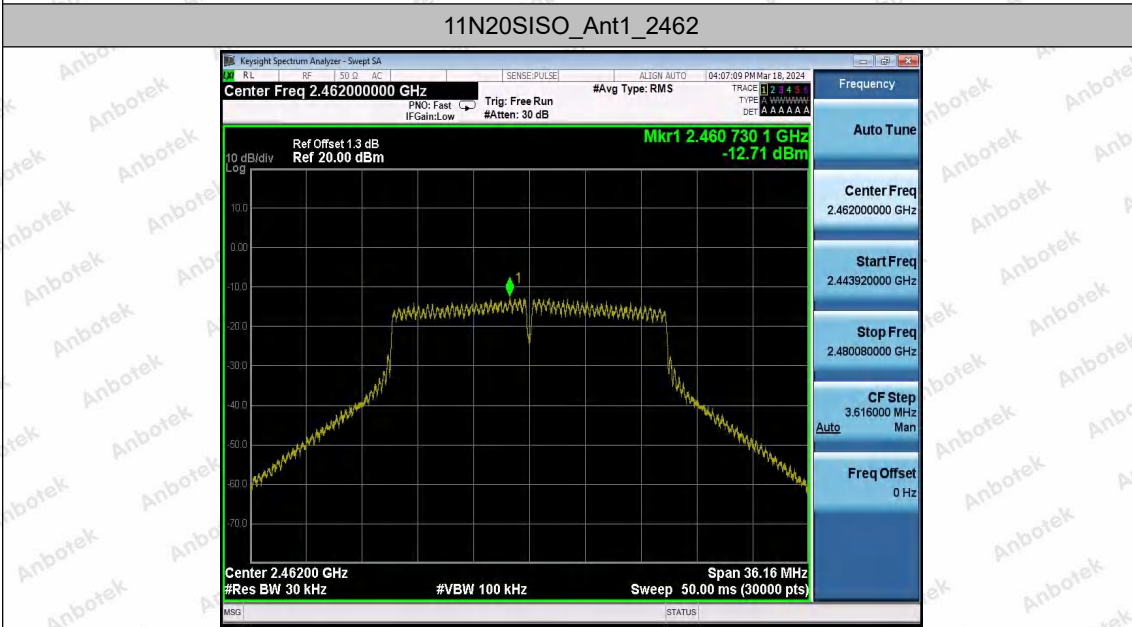
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.67	-39.54	≤-23.33	PASS
		High	2462	7.04	-55.33	≤-22.96	PASS
11G	Ant1	Low	2412	1.59	-28.66	≤-28.42	PASS
		High	2462	2.59	-52.72	≤-27.41	PASS
11N20SISO	Ant1	Low	2412	5.24	-31.99	≤-24.76	PASS
		High	2462	2.74	-54.10	≤-27.26	PASS
11N40SISO	Ant1	Low	2422	1.22	-36.93	≤-28.78	PASS
		High	2452	1.66	-35.16	≤-28.34	PASS

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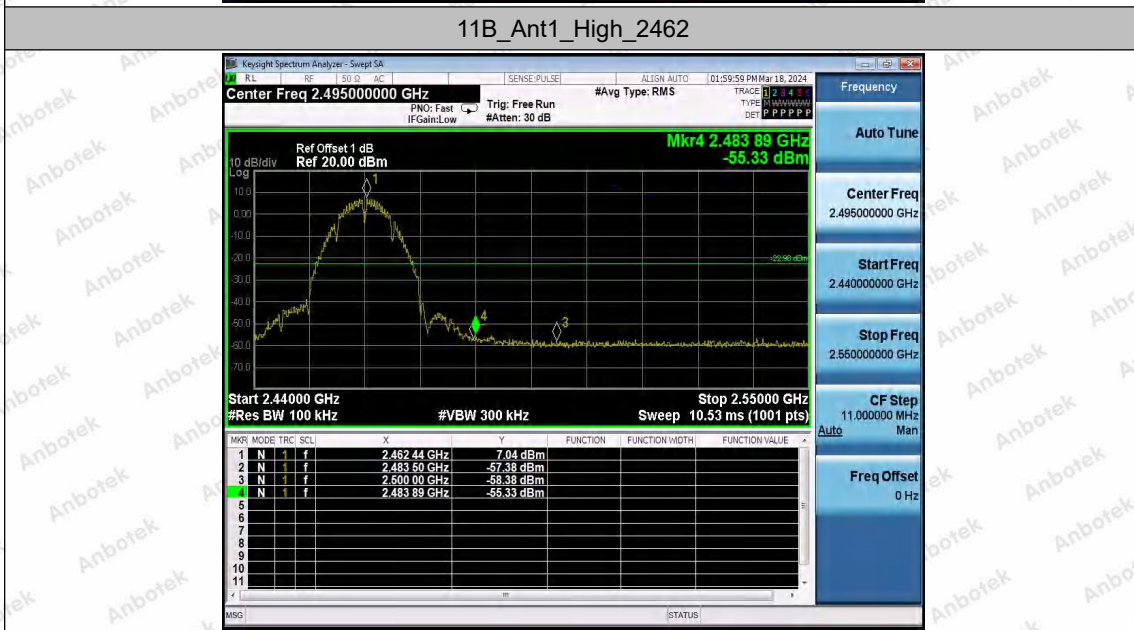
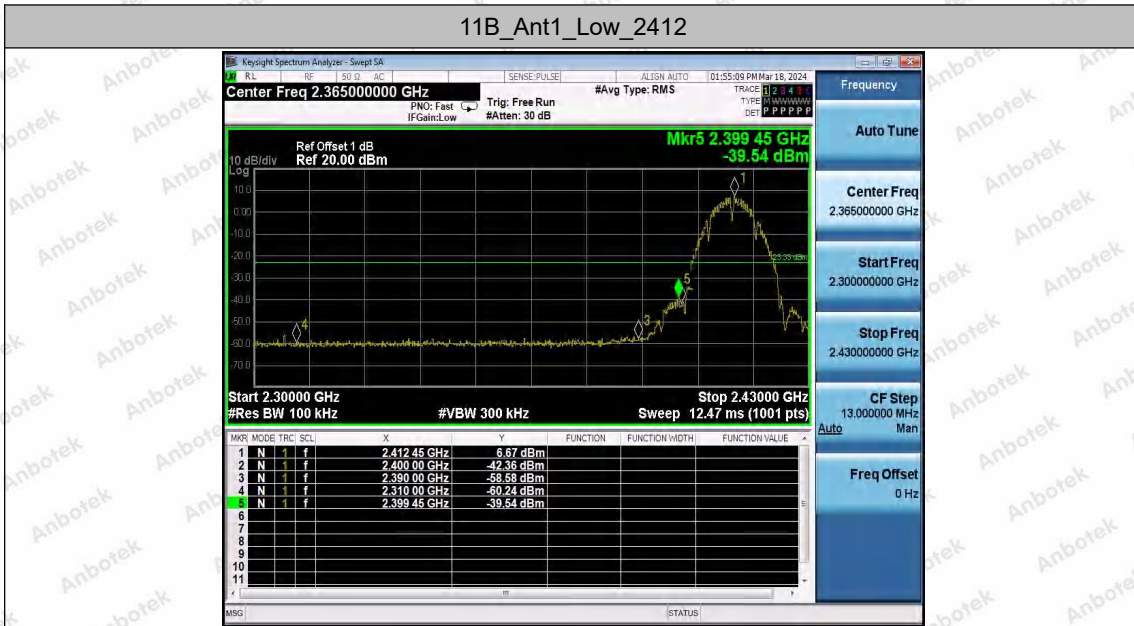
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Test Graphs



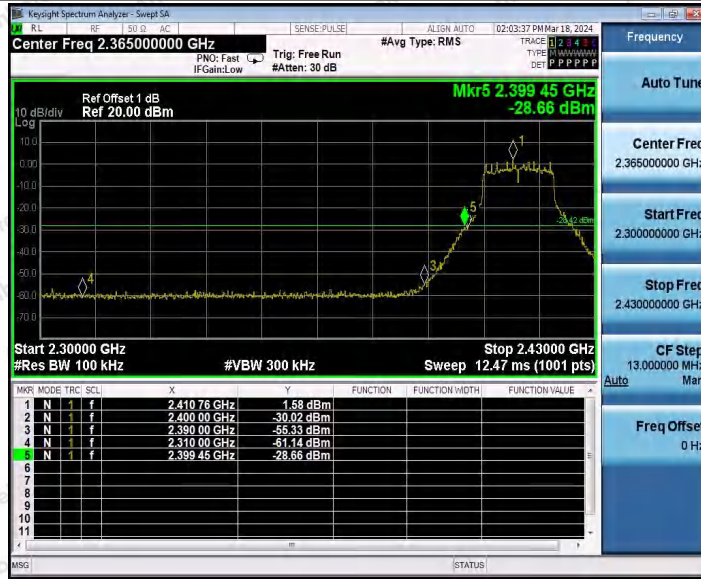
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11G_Ant1_High_2462



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	6.83	6.83	---	PASS
			30~1000	6.83	-68.19	≤-23.17	PASS
			1000~26500	6.83	-54.07	≤-23.17	PASS
		2437	Reference	7.56	7.56	---	PASS
			30~1000	7.56	-68.15	≤-22.44	PASS
			1000~26500	7.56	-53.45	≤-22.44	PASS
		2462	Reference	6.95	6.95	---	PASS
			30~1000	6.95	-67.26	≤-23.05	PASS
			1000~26500	6.95	-54.05	≤-23.05	PASS
11G	Ant1	2412	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-67.2	≤-27.37	PASS
			1000~26500	2.63	-53.72	≤-27.37	PASS
		2437	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-68.7	≤-26.84	PASS
			1000~26500	3.16	-53.41	≤-26.84	PASS
		2462	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-68.4	≤-28.16	PASS
			1000~26500	1.84	-53.97	≤-28.16	PASS
11N20SISO	Ant1	2412	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-68.41	≤-27.92	PASS
			1000~26500	2.08	-53.72	≤-27.92	PASS
		2437	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-68.6	≤-26.81	PASS
			1000~26500	3.19	-53.84	≤-26.81	PASS
		2462	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-68.16	≤-27.65	PASS
			1000~26500	2.35	-53.54	≤-27.65	PASS
11N40SISO	Ant1	2422	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-68.45	≤-28.81	PASS
			1000~26500	1.19	-52.38	≤-28.81	PASS
		2437	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-68.63	≤-28.31	PASS
			1000~26500	1.69	-53.56	≤-28.31	PASS
		2452	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-68.3	≤-28.41	PASS
			1000~26500	1.59	-53.84	≤-28.41	PASS

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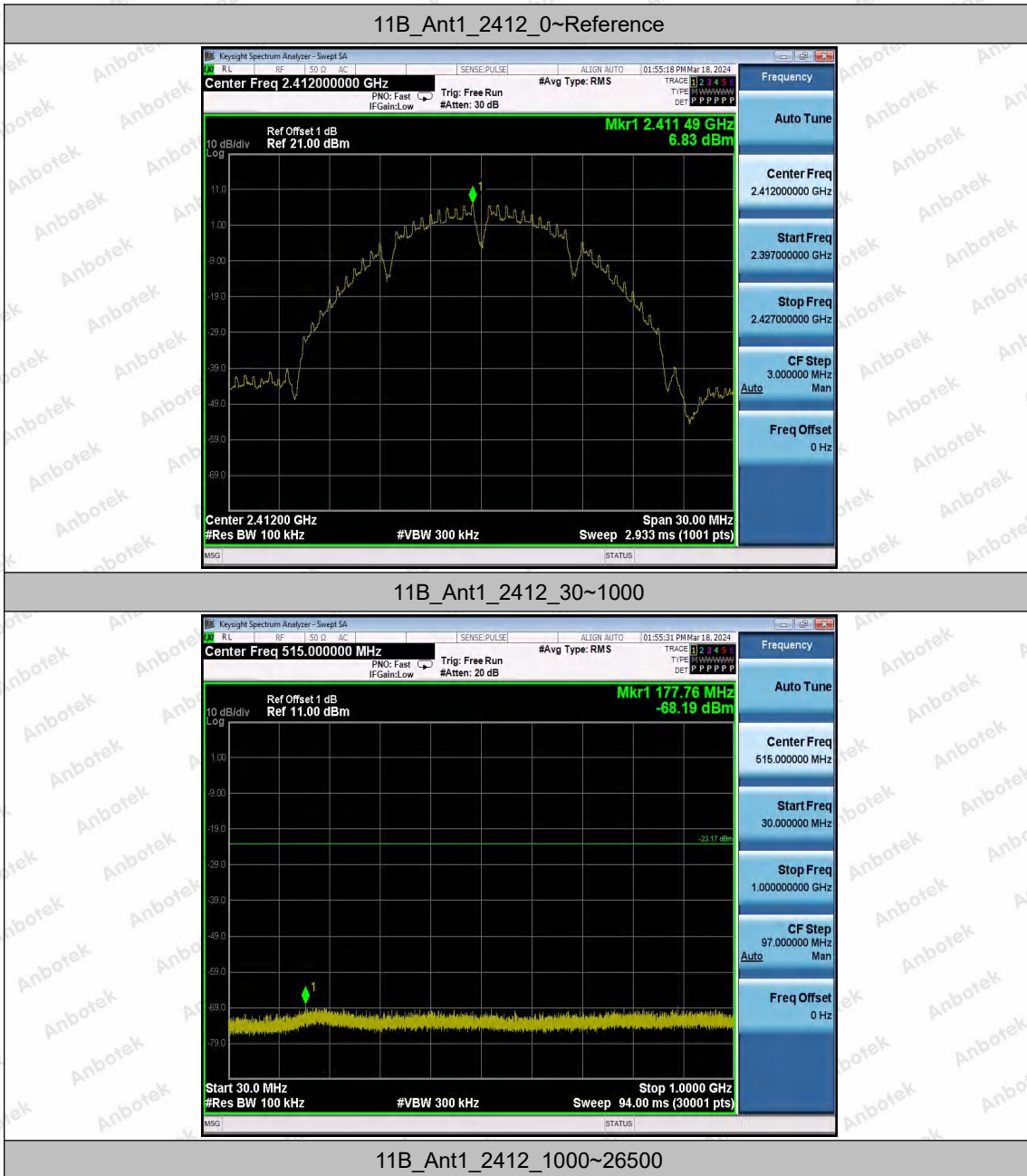
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

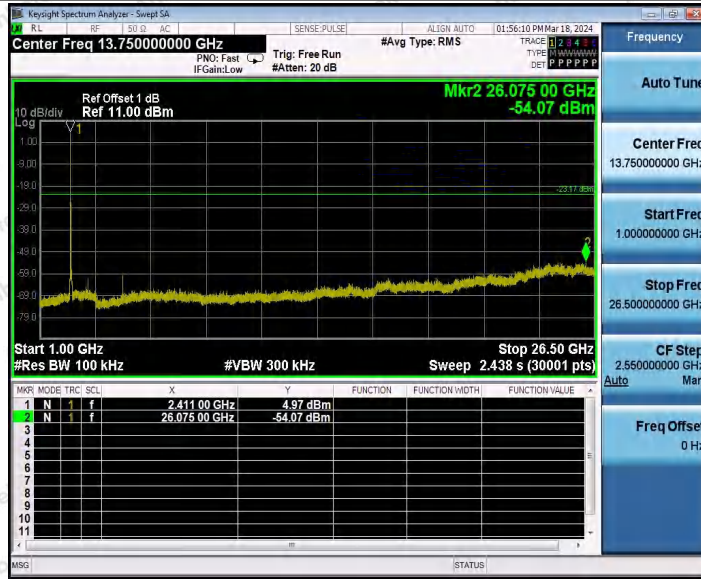


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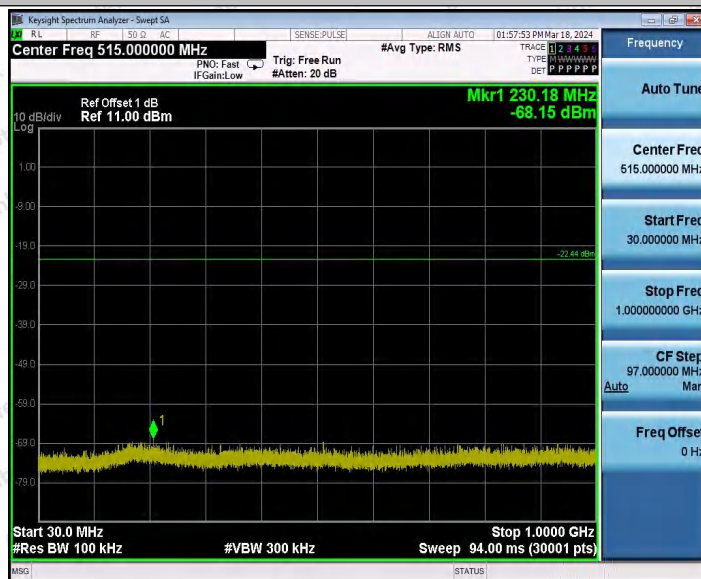




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

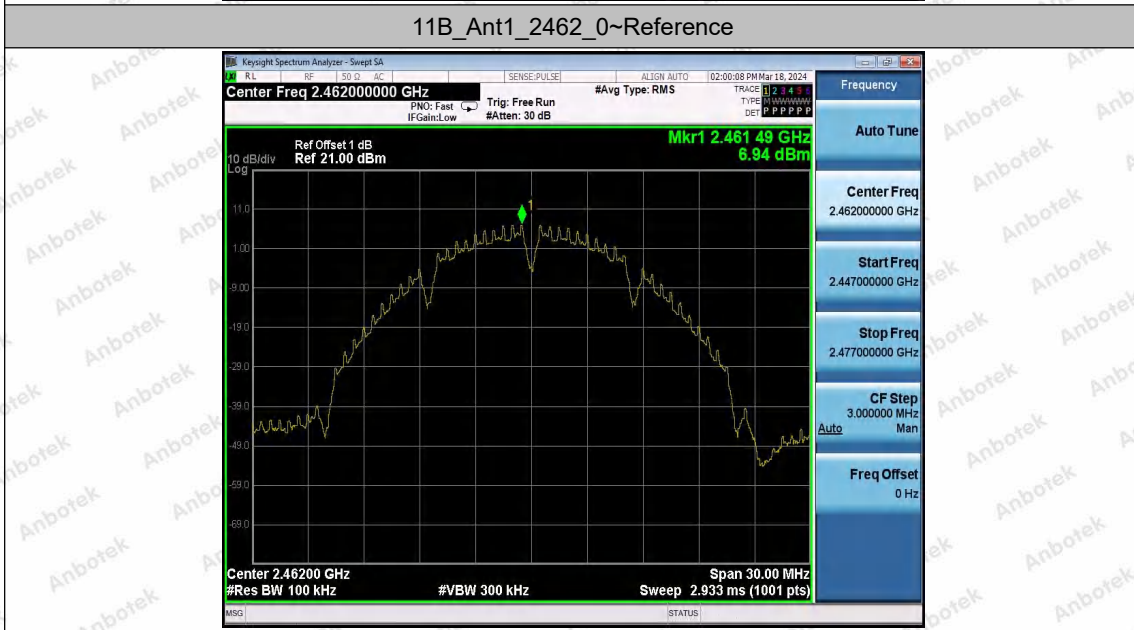
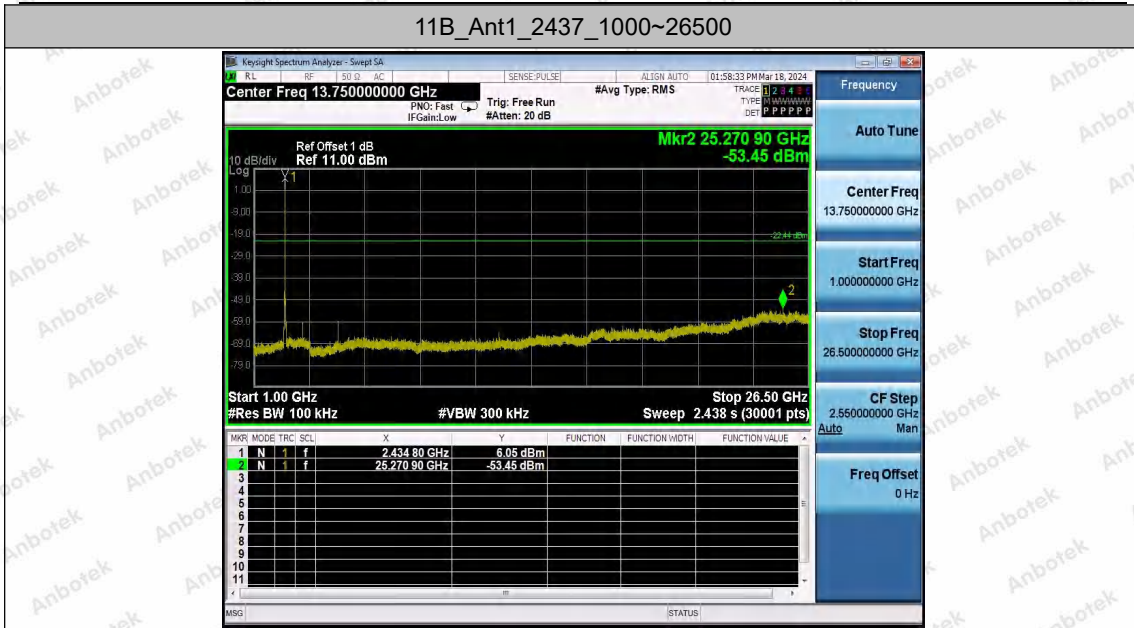


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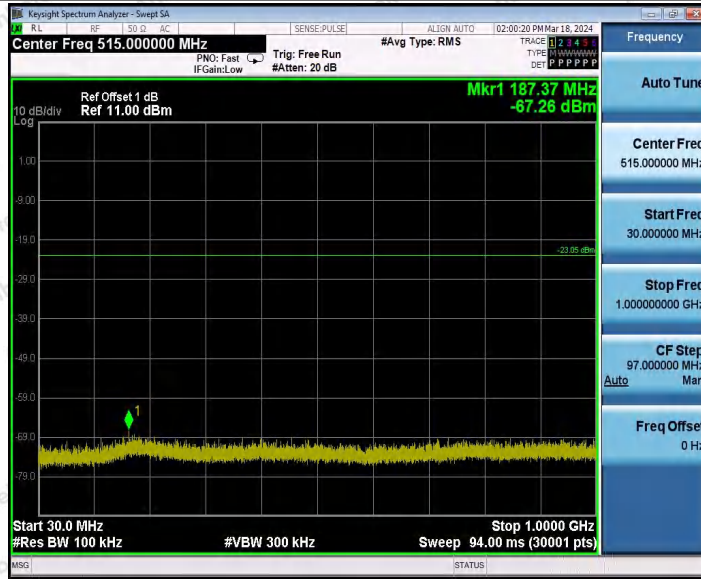
11B_Ant1_2462_30~1000

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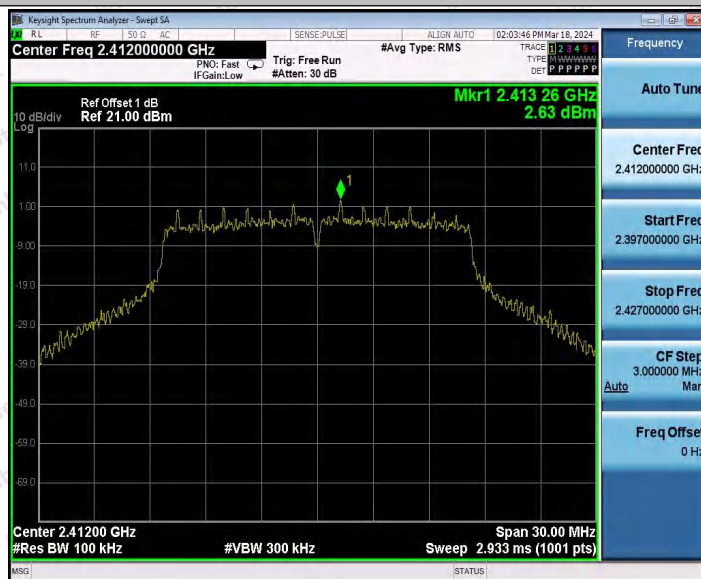




11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



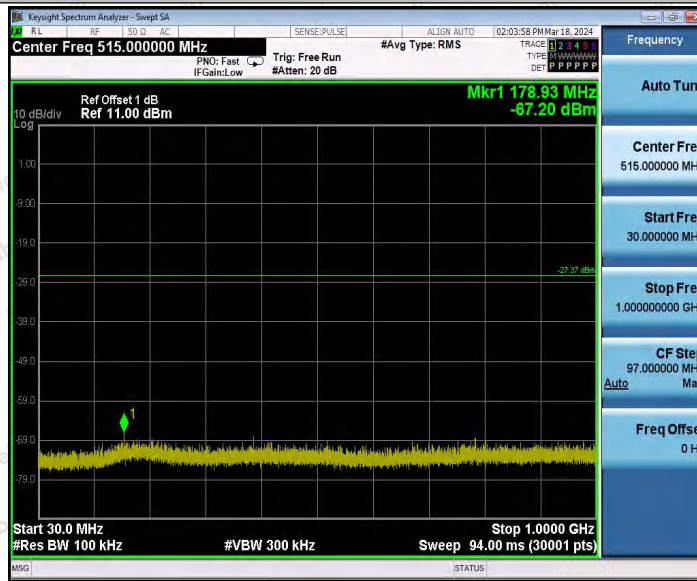
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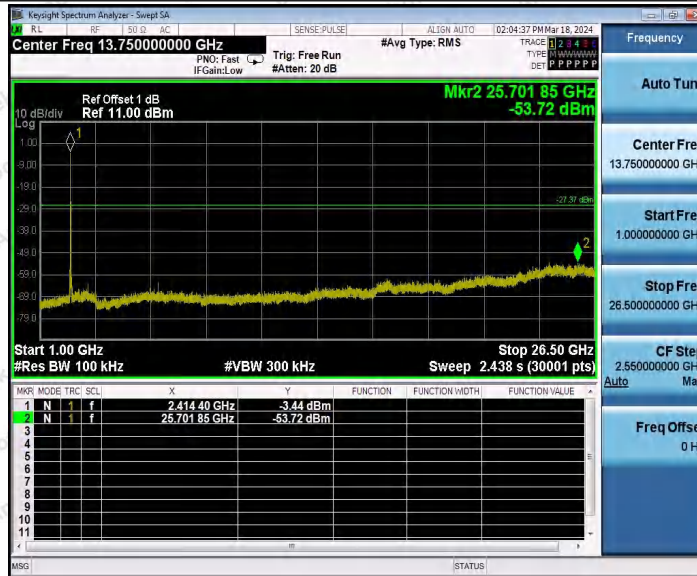
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



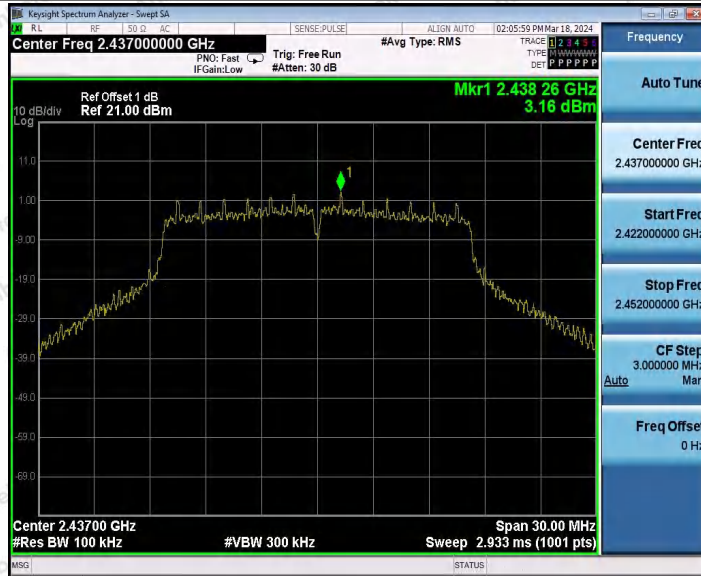
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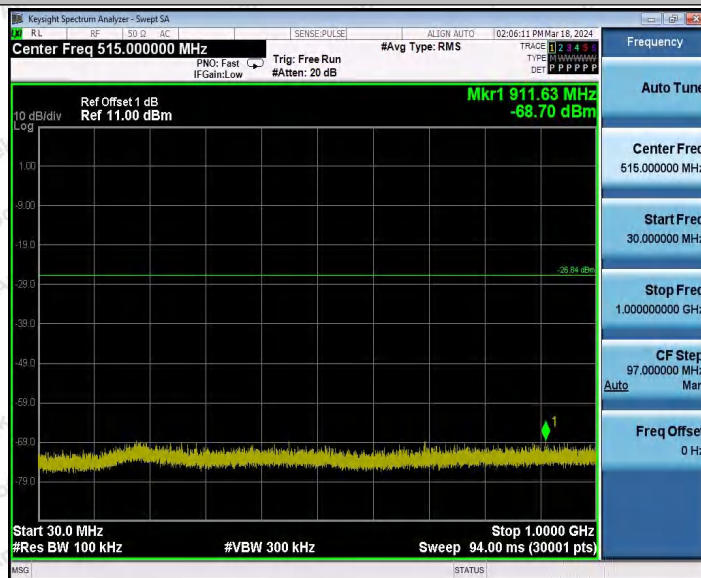
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



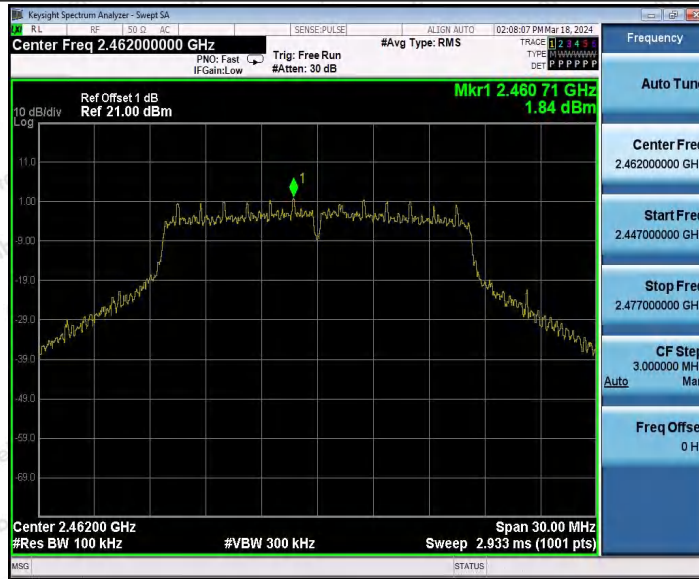
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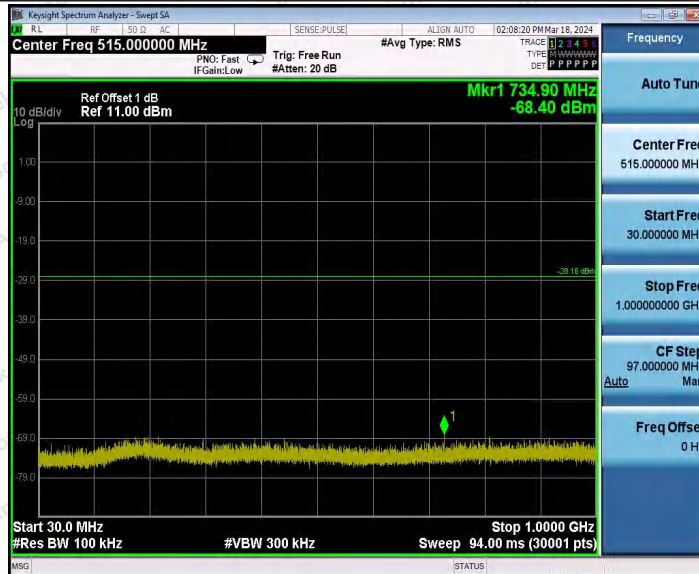
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



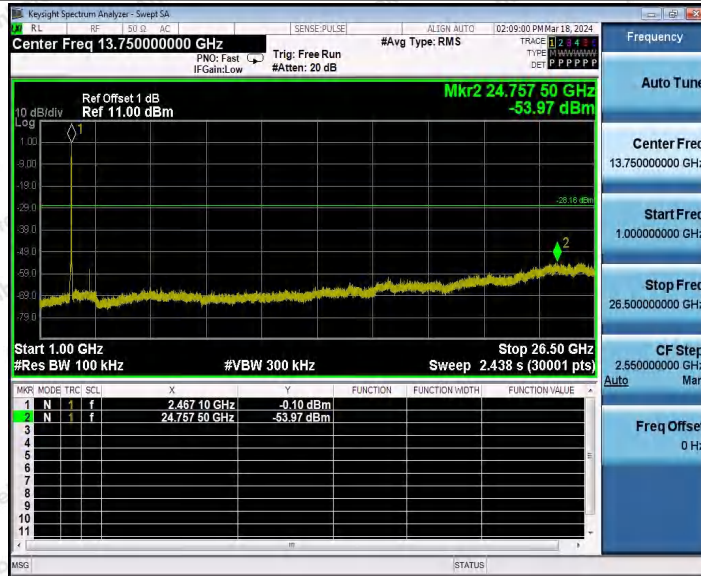
11G_Ant1_2462_1000~26500

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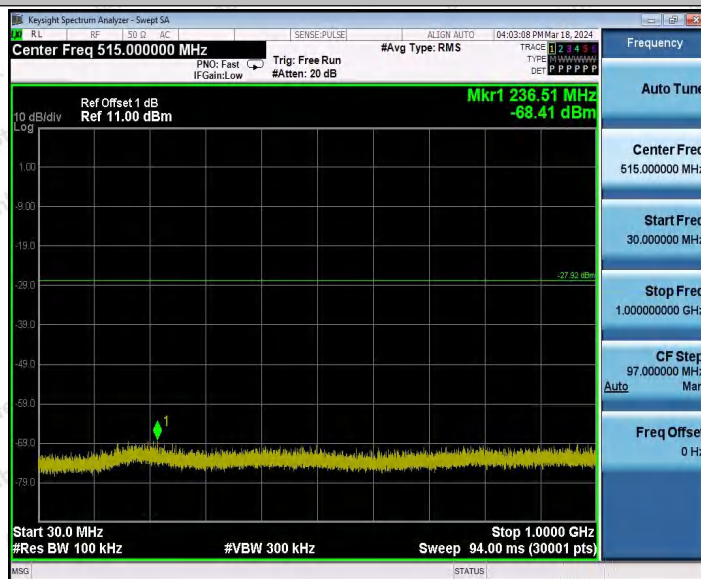




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



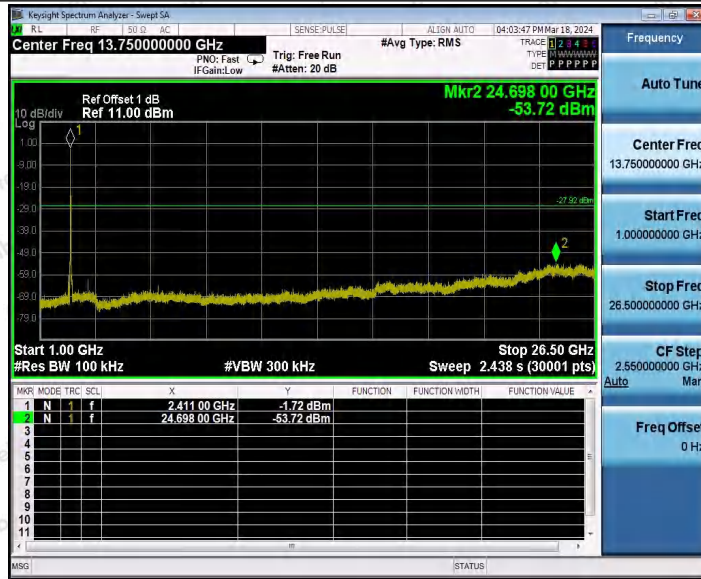
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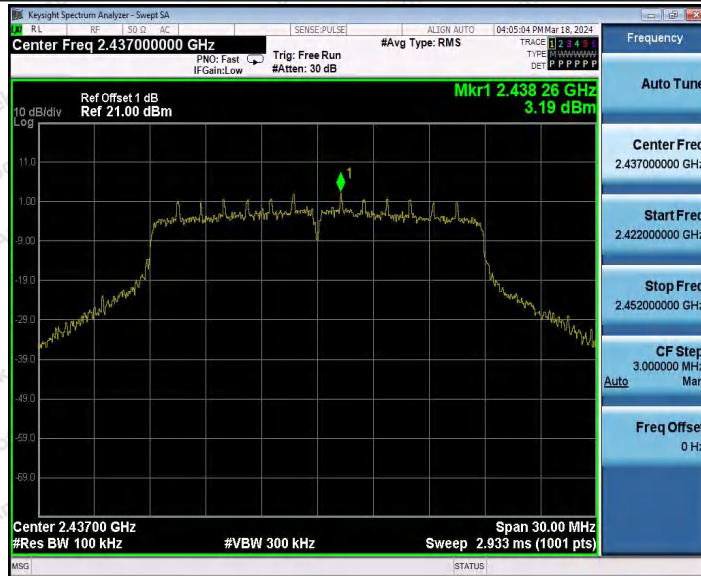
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



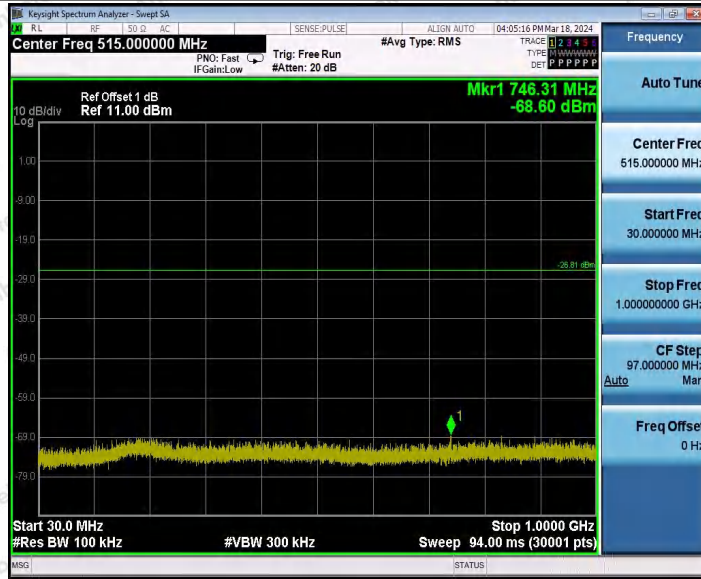
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Shenzhen Anbotek Compliance Laboratory Limited

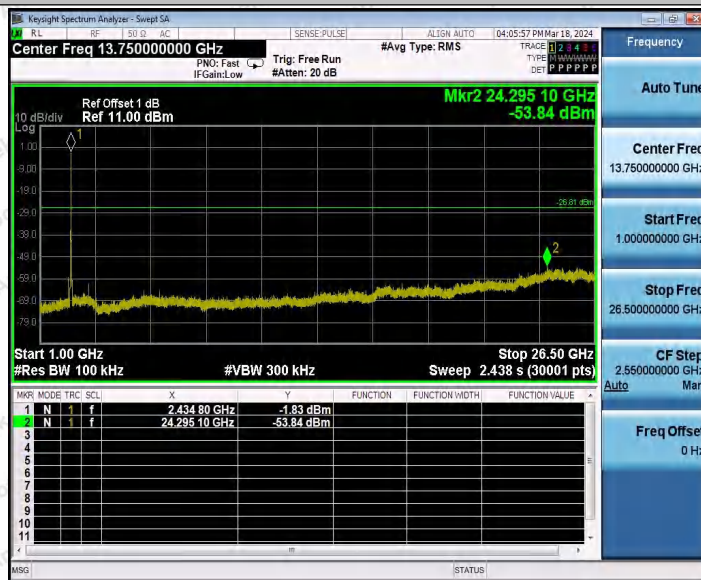
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

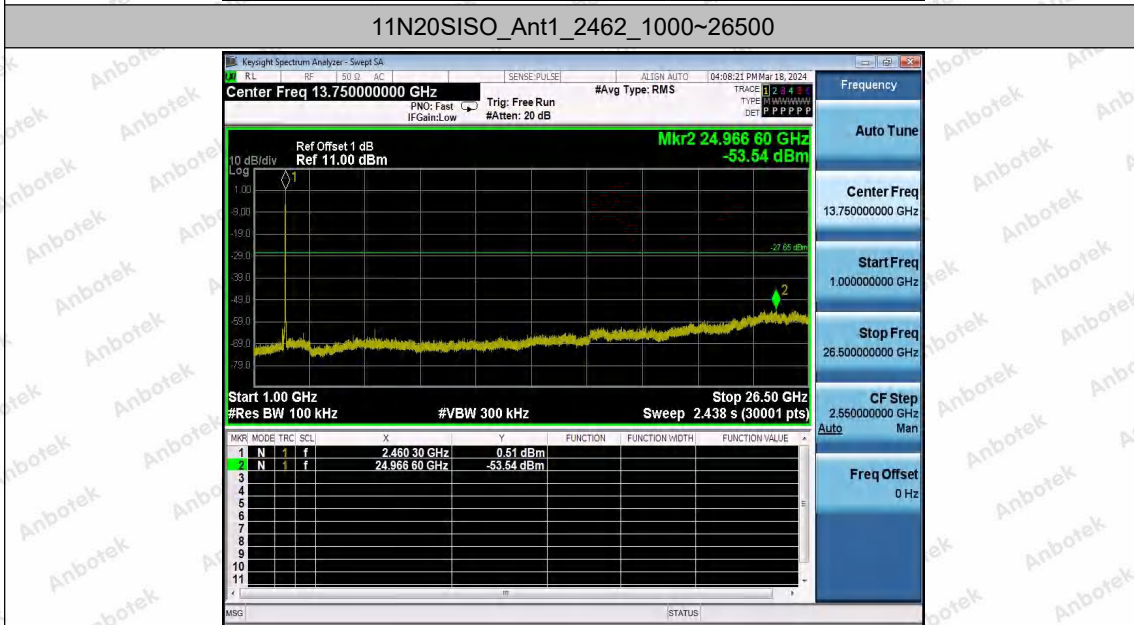
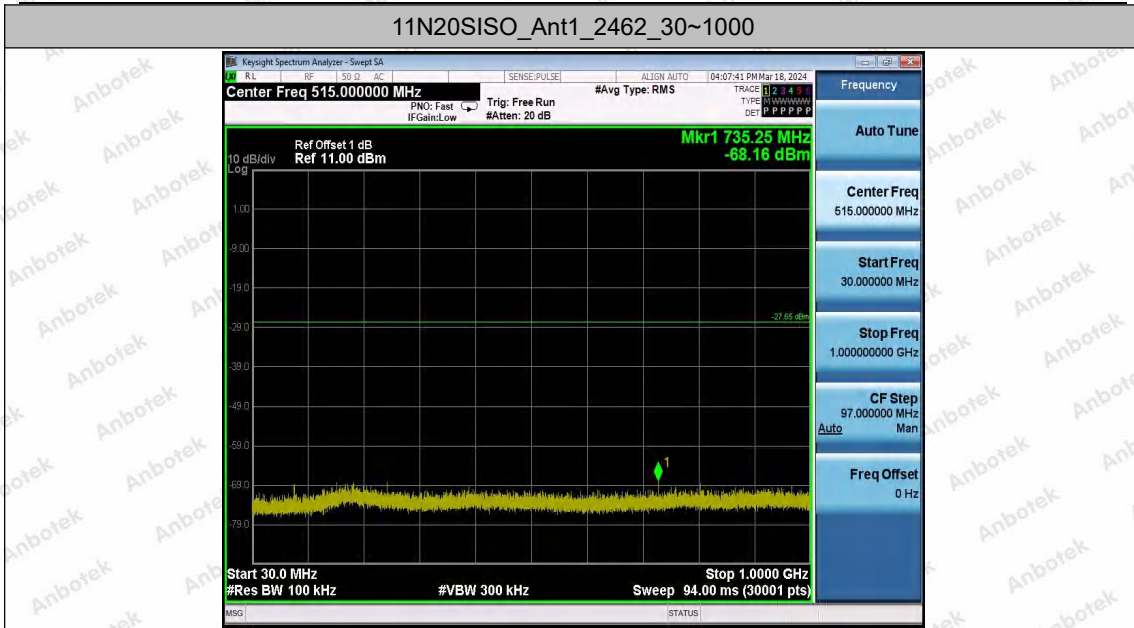


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11N40SISO_Ant1_2422_0~Reference

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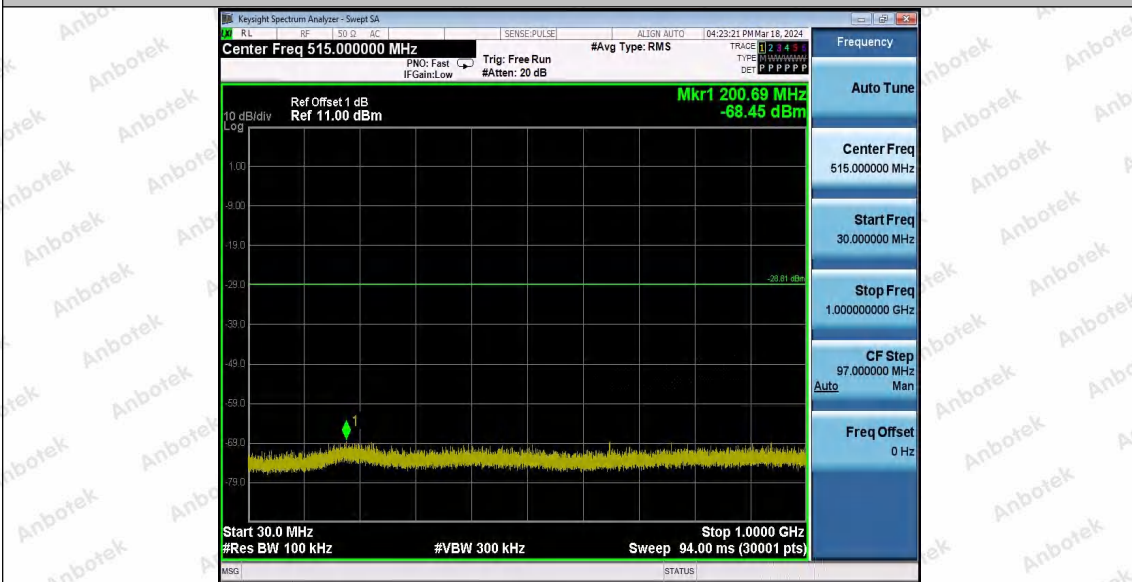
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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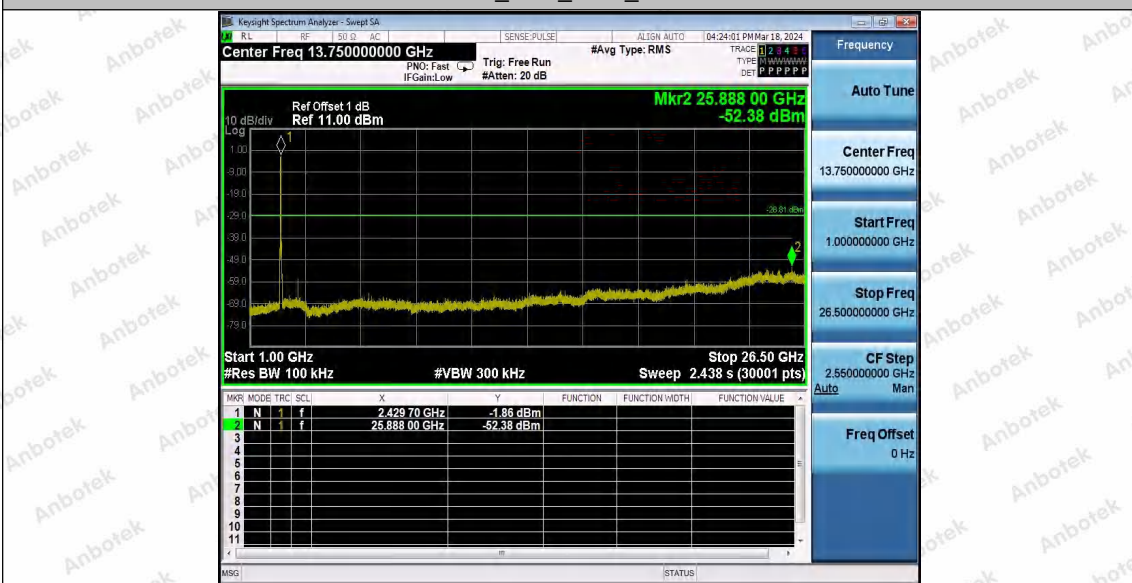




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500

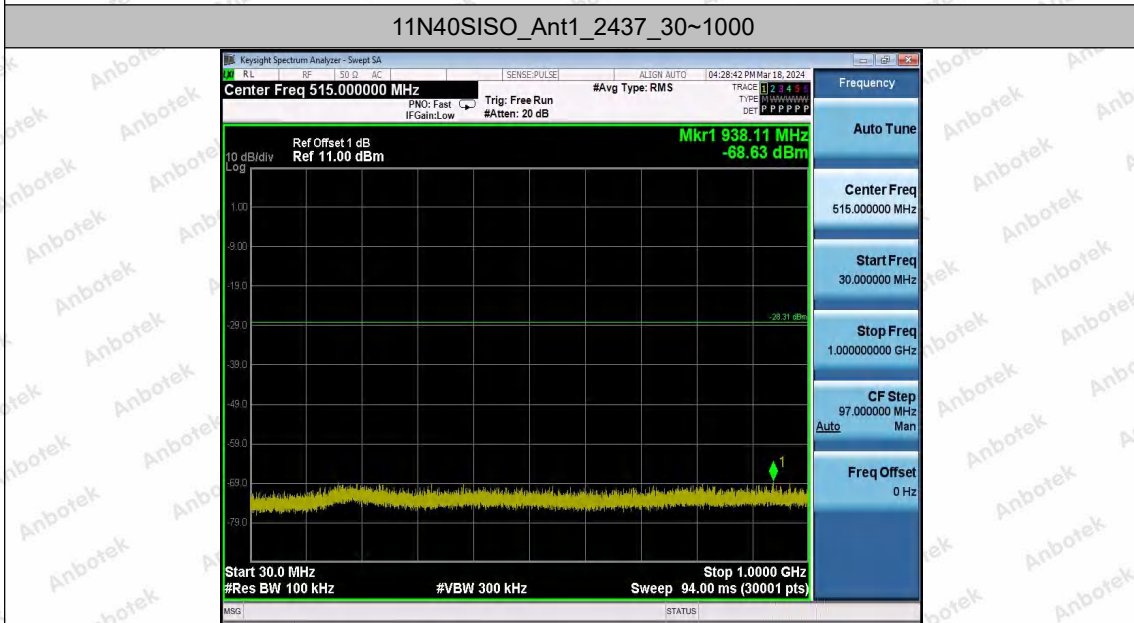


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11N40SISO_Ant1_2437_1000~26500

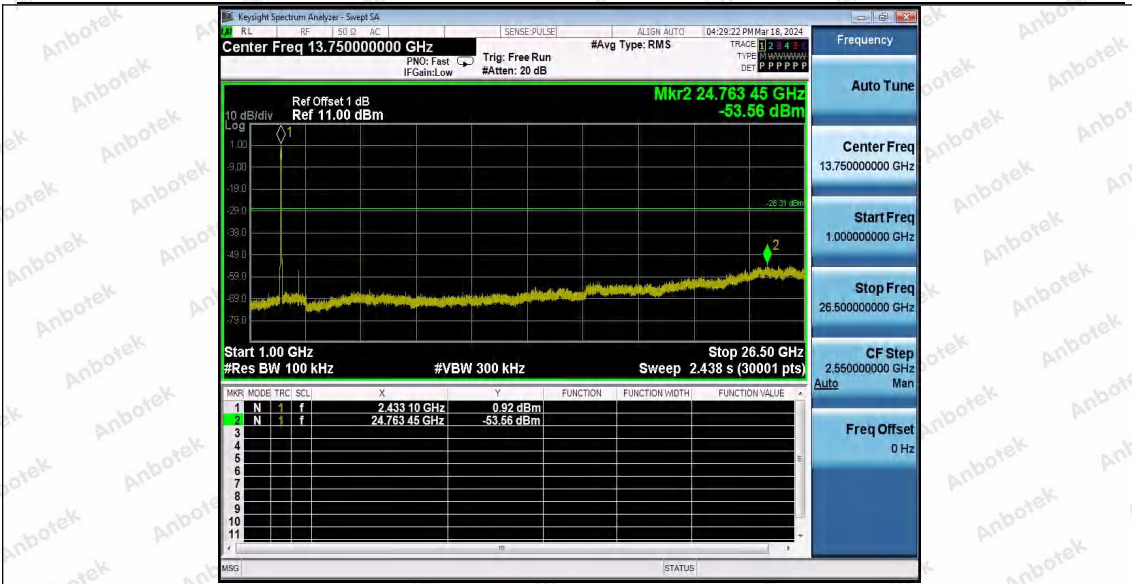
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11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000

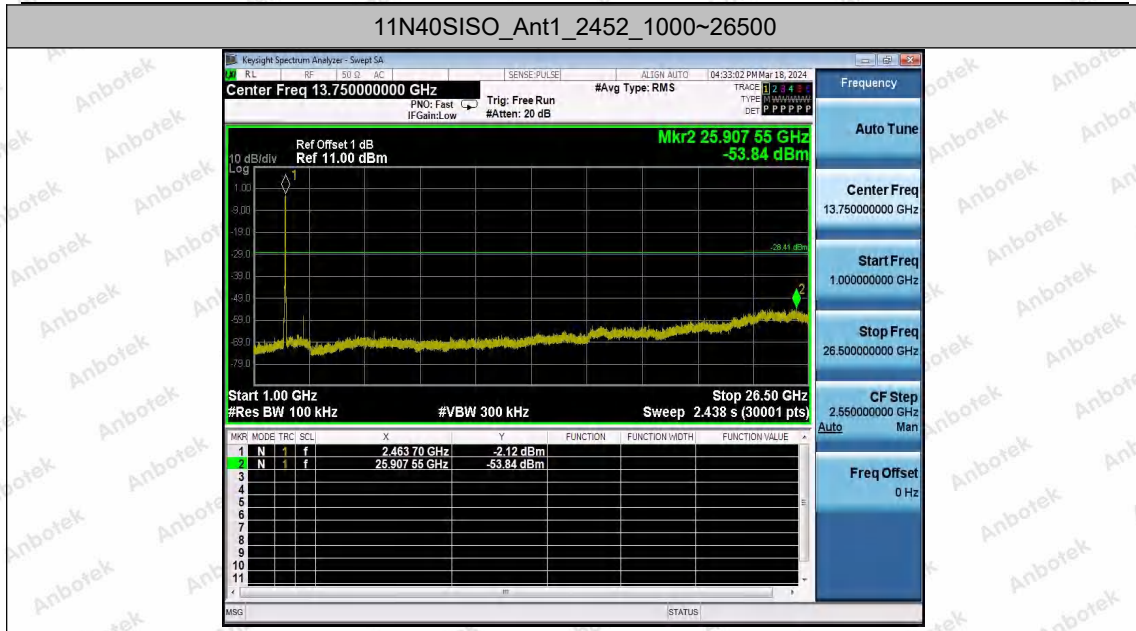


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.20	12.32	99.03	0.04
		2437	12.22	12.33	99.11	0.04
		2462	12.19	12.31	99.03	0.04
11G	Ant1	2412	2.03	2.16	93.98	0.27
		2437	2.03	2.16	93.98	0.27
		2462	2.03	2.15	94.42	0.25
11N20SISO	Ant1	2412	1.71	1.82	93.96	0.27
		2437	1.70	1.81	93.92	0.27
		2462	1.70	1.82	93.41	0.30
11N40SISO	Ant1	2422	0.84	0.96	87.50	0.58
		2437	0.83	0.95	87.37	0.59
		2452	0.84	0.95	88.42	0.53

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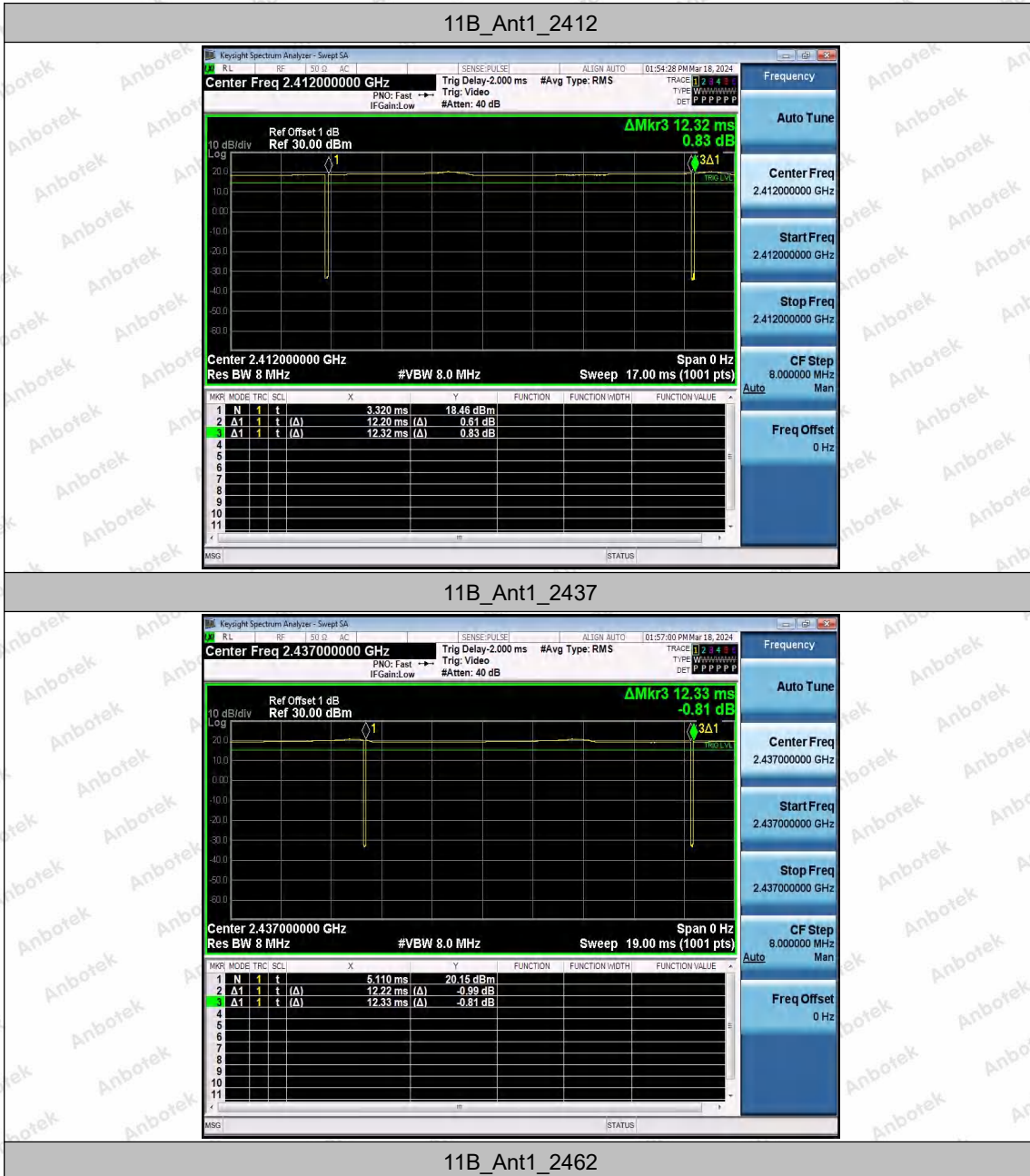
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Test Graphs

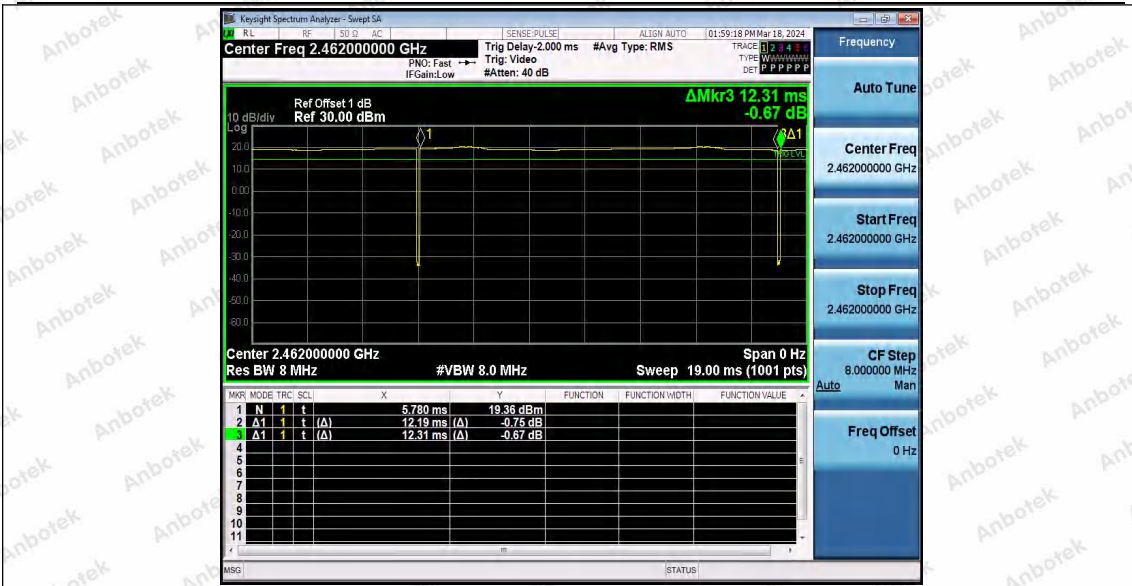


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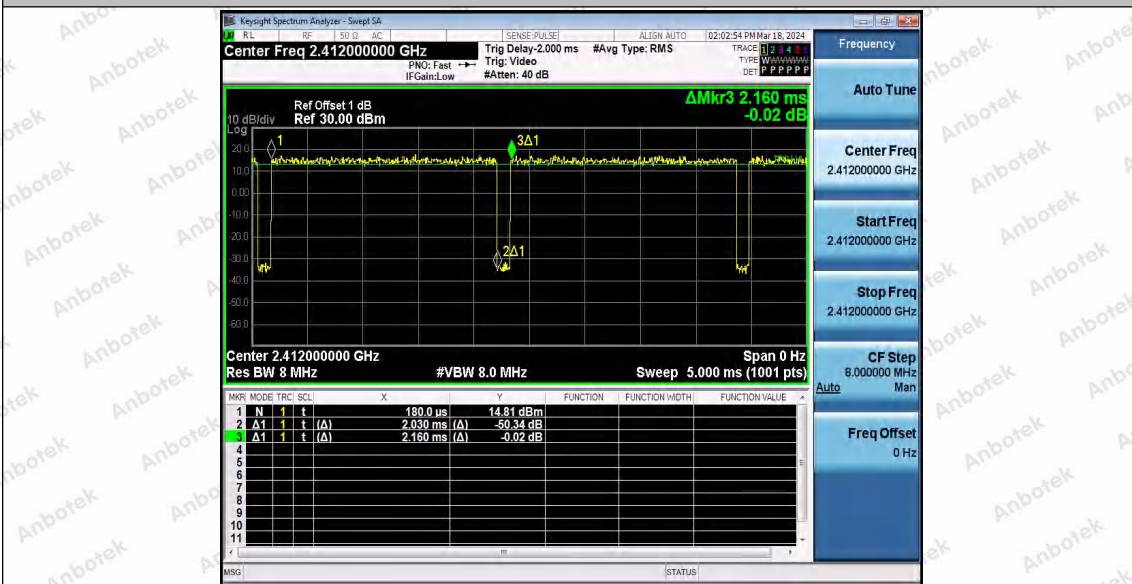
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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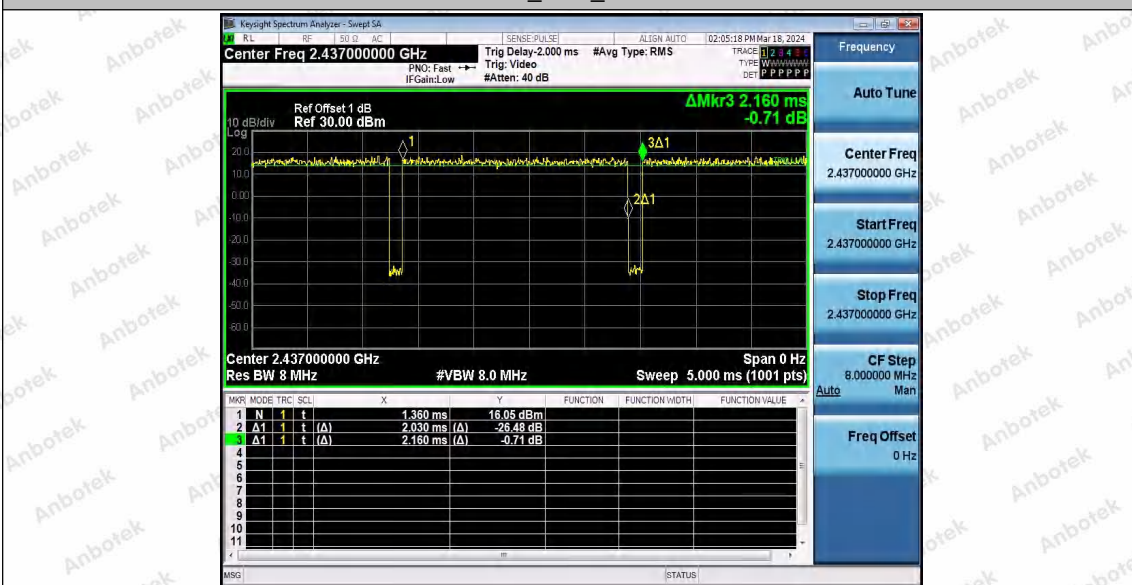




11G_Ant1_2412



11G_Ant1_2437

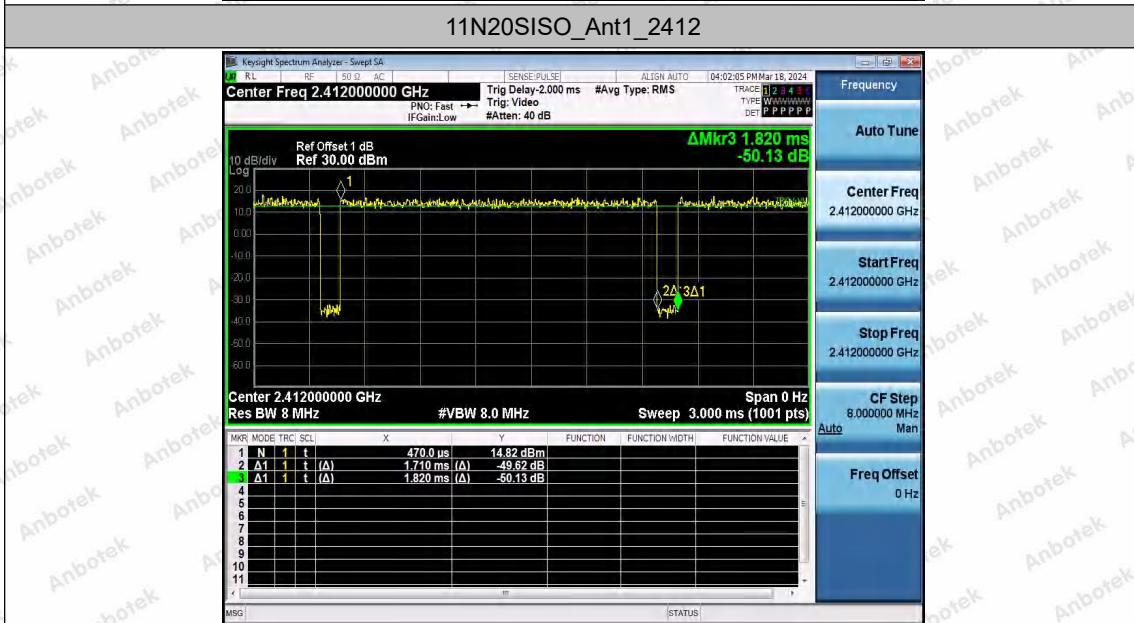
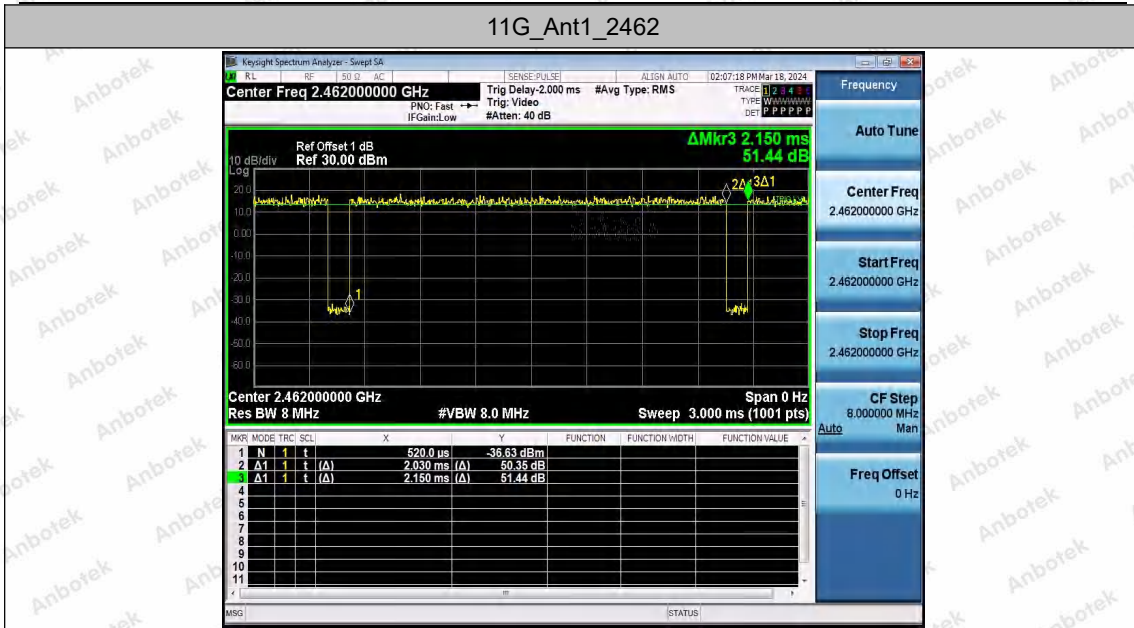


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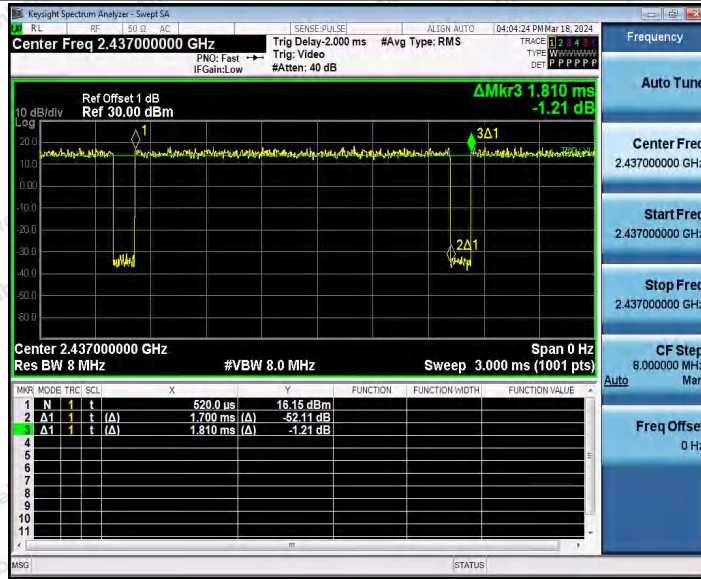


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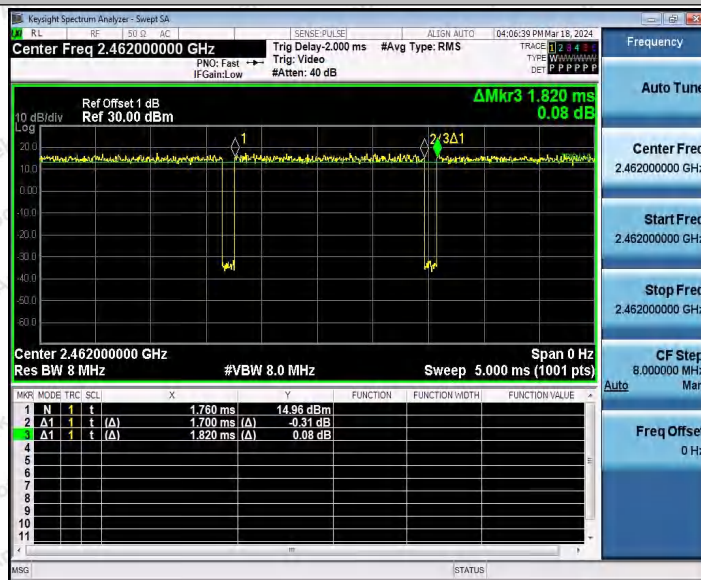
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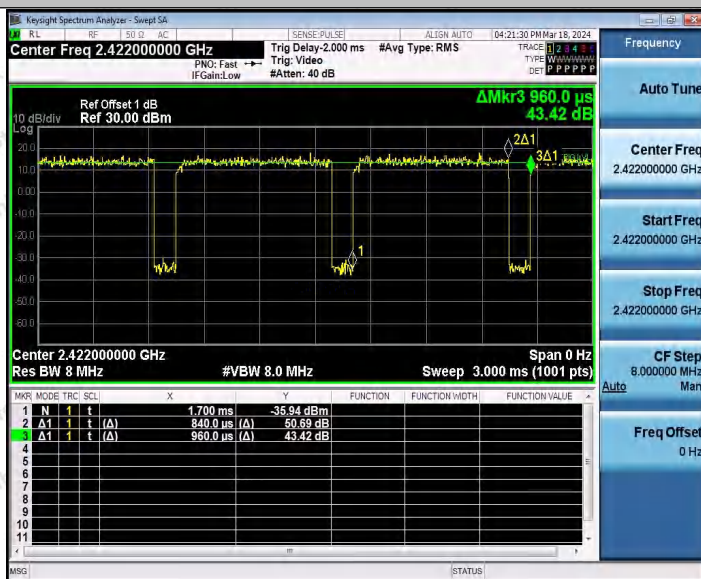




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

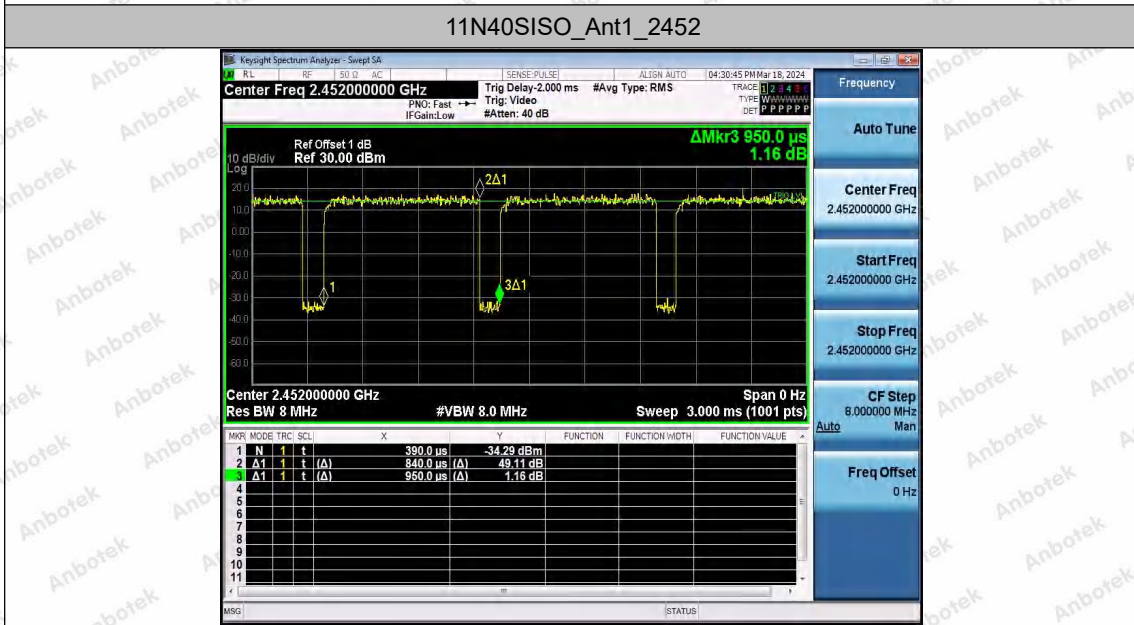
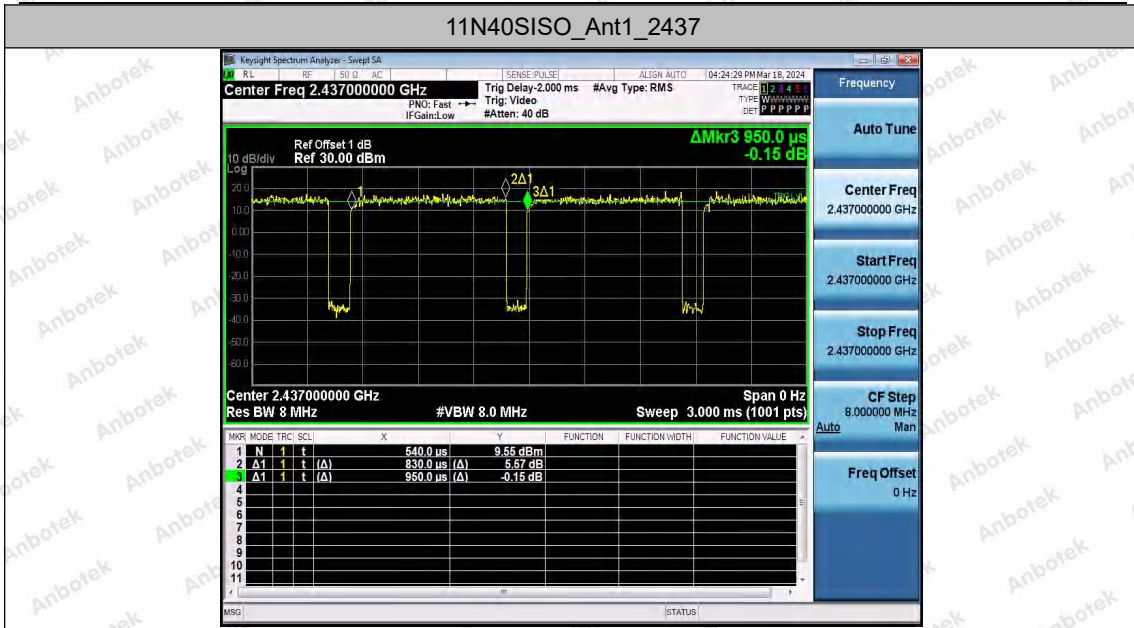


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