

Appendix Test Data

Report No.:	18220WC30262601	Test Sample No.:	1-2-2
Start Test Date:	2023.12.14	Finish Test Date:	2024.01.03
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4°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	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.040	2457.000	2467.040	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	16.280	2453.840	2470.120	0.5	PASS
11N20SISO	Ant1	2412	16.600	2403.520	2420.120	0.5	PASS
		2437	17.320	2428.440	2445.760	0.5	PASS
		2462	17.120	2453.520	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.240	2439.760	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.520	2434.240	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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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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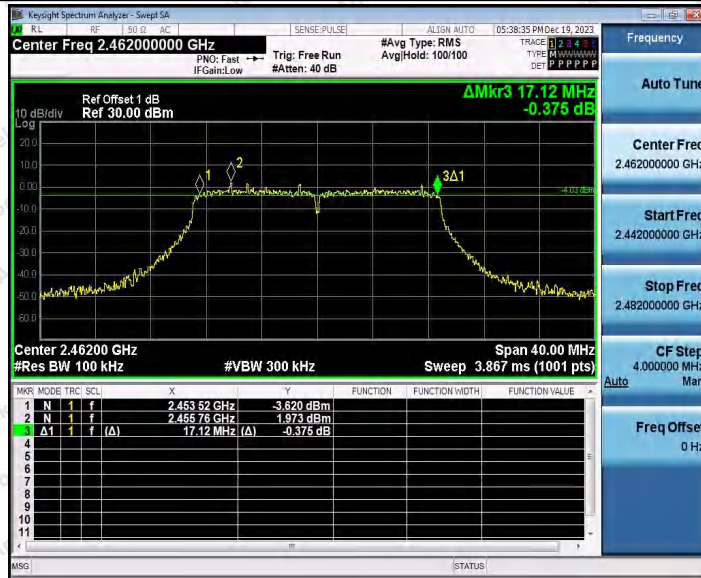
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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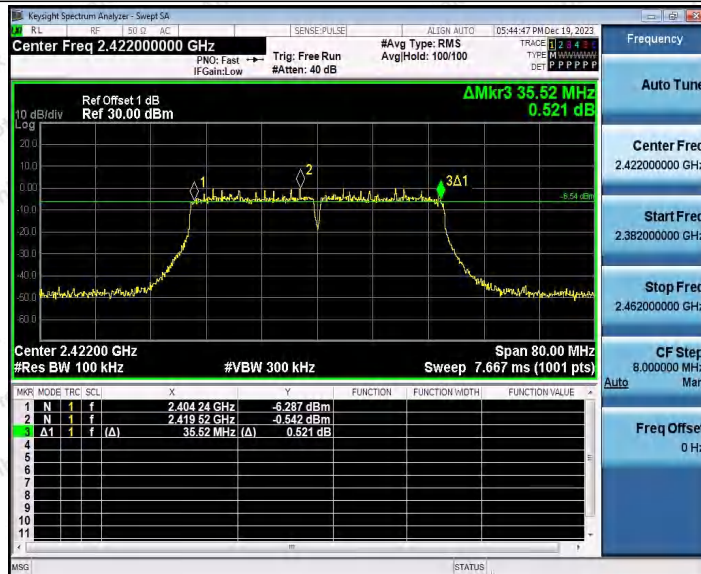




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

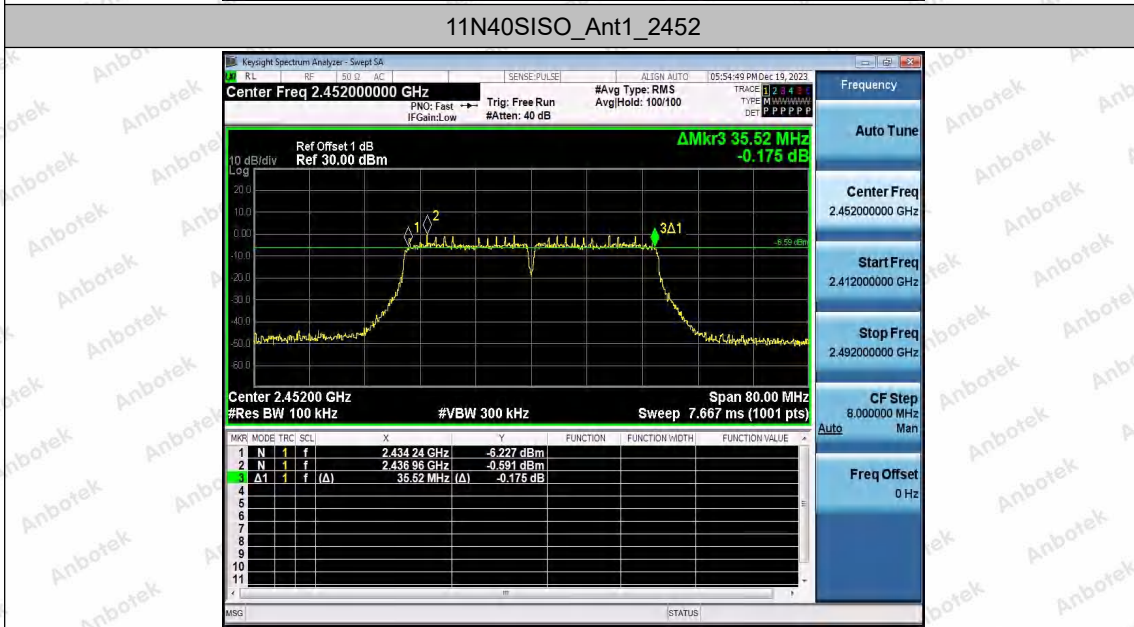
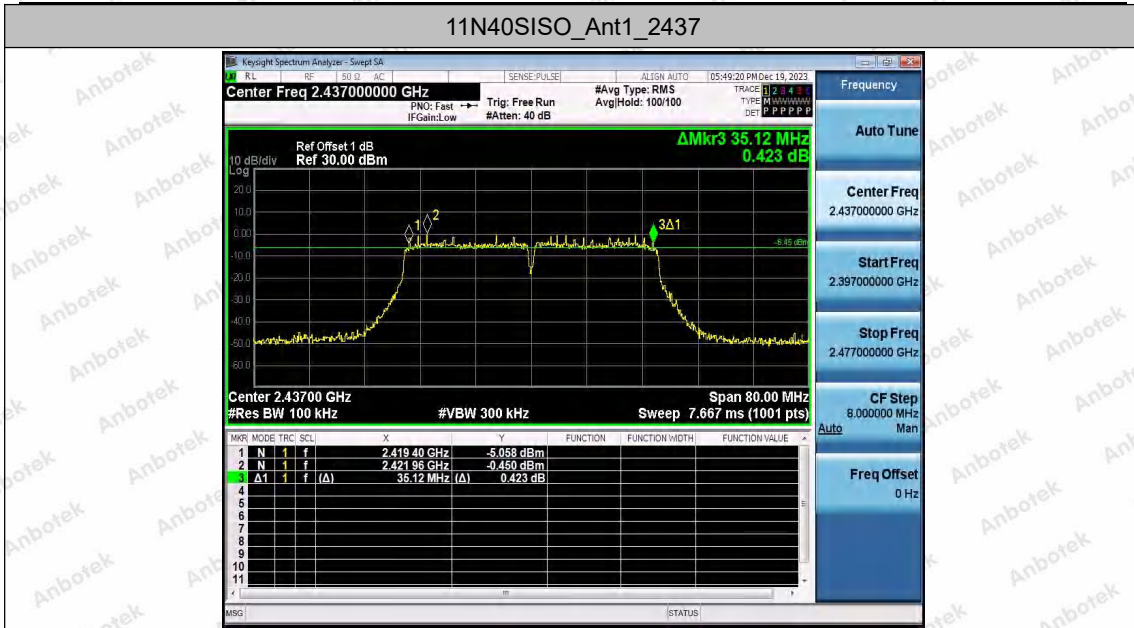


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.006	2404.5021	2419.5081	---	---
		2437	15.020	2429.4961	2444.5161	---	---
		2462	15.003	2454.5004	2469.5034	---	---
11G	Ant1	2412	16.970	2403.4879	2420.4579	---	---
		2437	16.918	2428.5618	2445.4798	---	---
		2462	16.972	2453.5284	2470.5004	---	---
11N20SISO	Ant1	2412	17.943	2403.0636	2421.0066	---	---
		2437	17.924	2428.0412	2445.9652	---	---
		2462	17.836	2453.0912	2470.9272	---	---
11N40SISO	Ant1	2422	36.263	2403.9574	2440.2204	---	---
		2437	36.381	2418.9098	2455.2908	---	---
		2452	36.308	2433.9250	2470.2330	---	---

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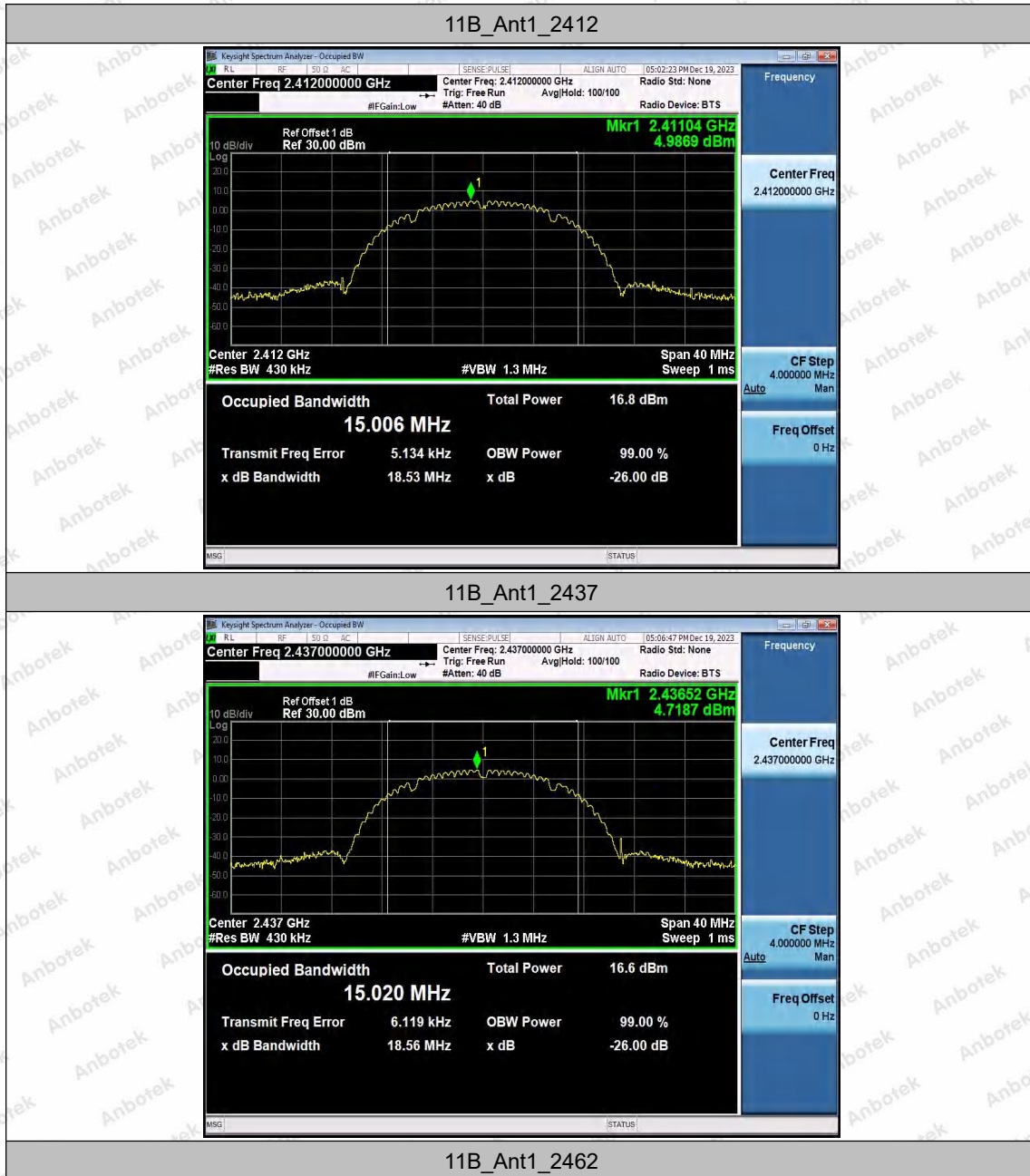
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

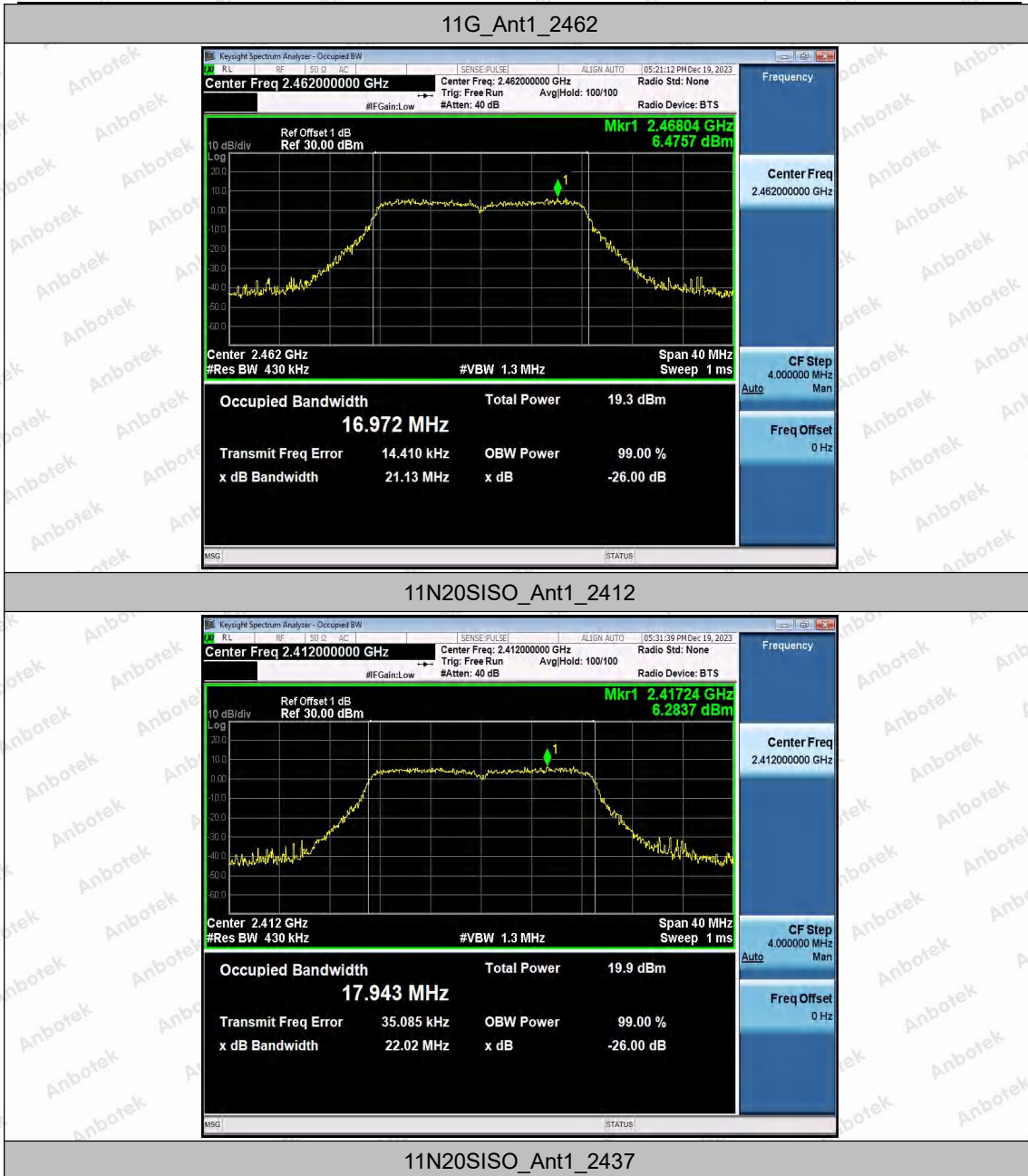


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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

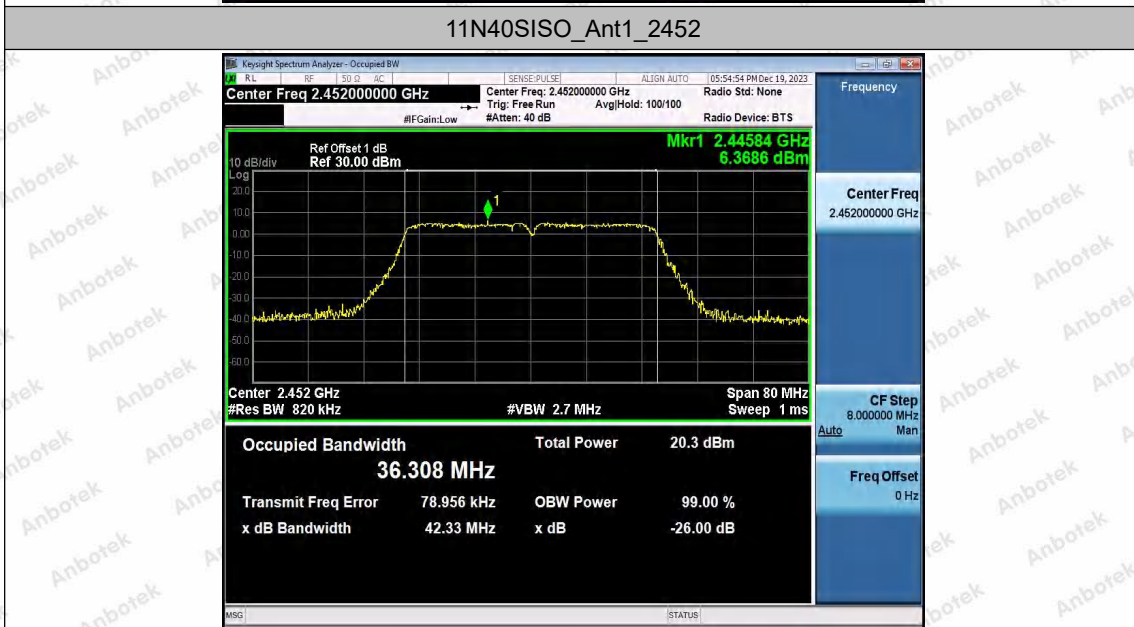
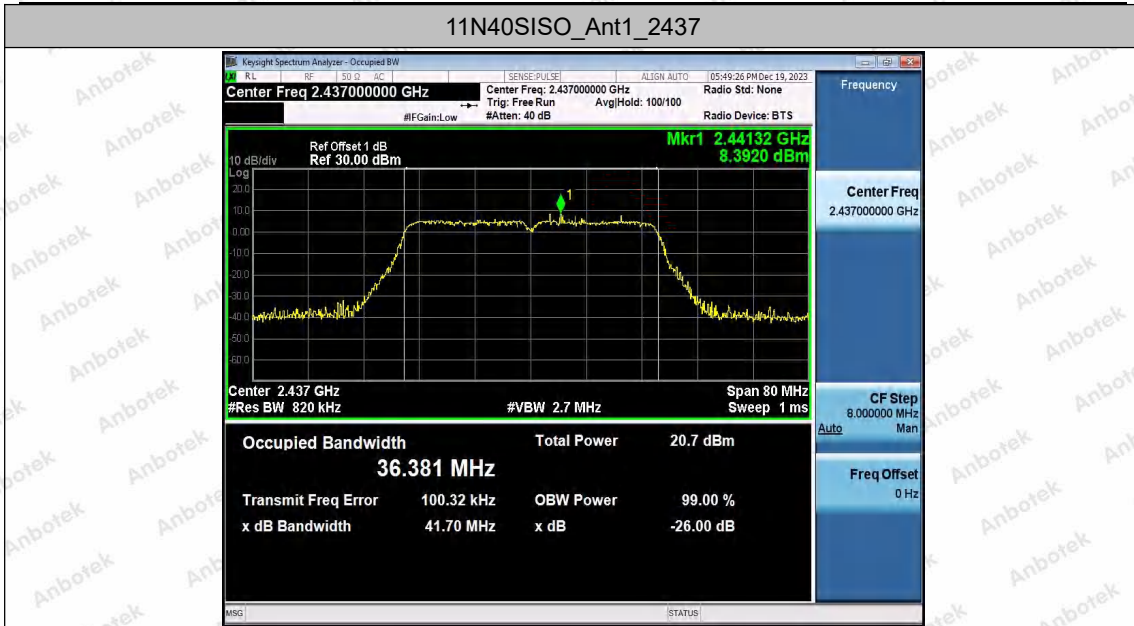


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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.66	≤30.00
		2437	13.55	≤30.00
		2462	13.21	≤30.00
11G	Ant1	2412	13.64	≤30.00
		2437	13.60	≤30.00
		2462	13.28	≤30.00
11N20SISO	Ant1	2412	13.66	≤30.00
		2437	13.64	≤30.00
		2462	13.32	≤30.00
11N40SISO	Ant1	2422	13.99	≤30.00
		2437	13.78	≤30.00
		2452	13.58	≤30.00

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



Test Graphs

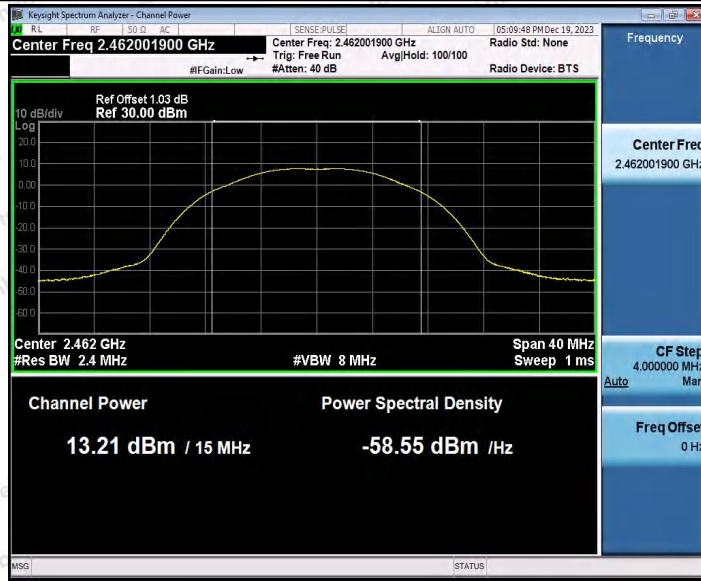


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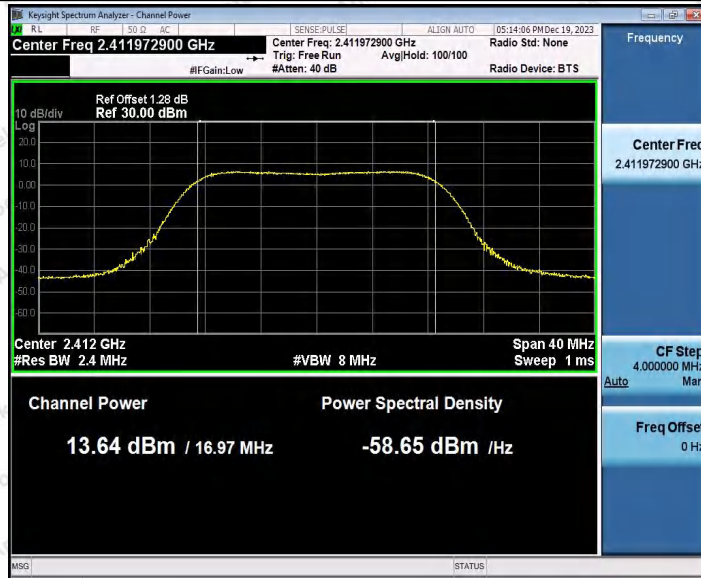
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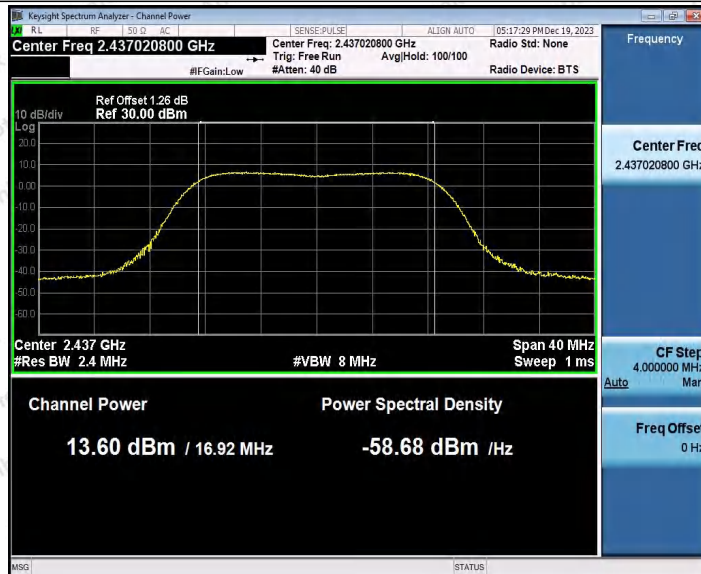




11G_Ant1_2412



11G_Ant1_2437



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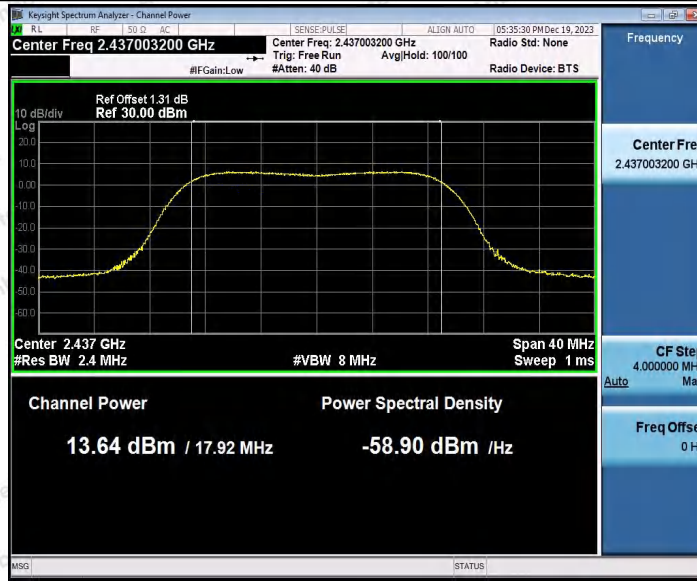


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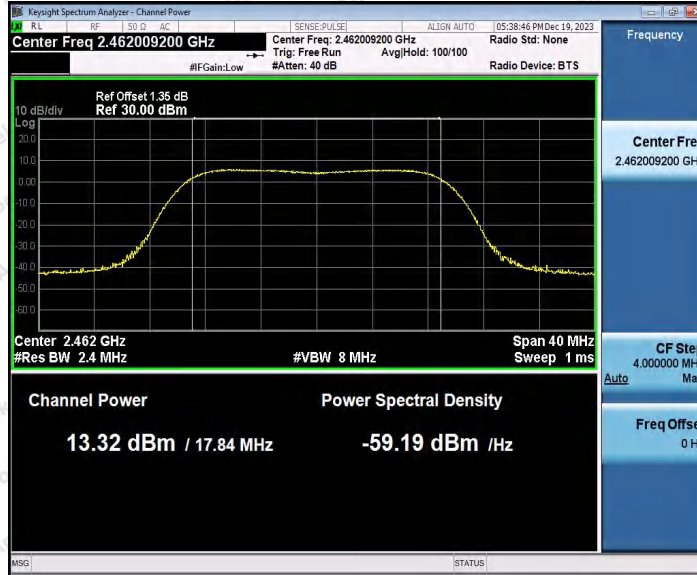
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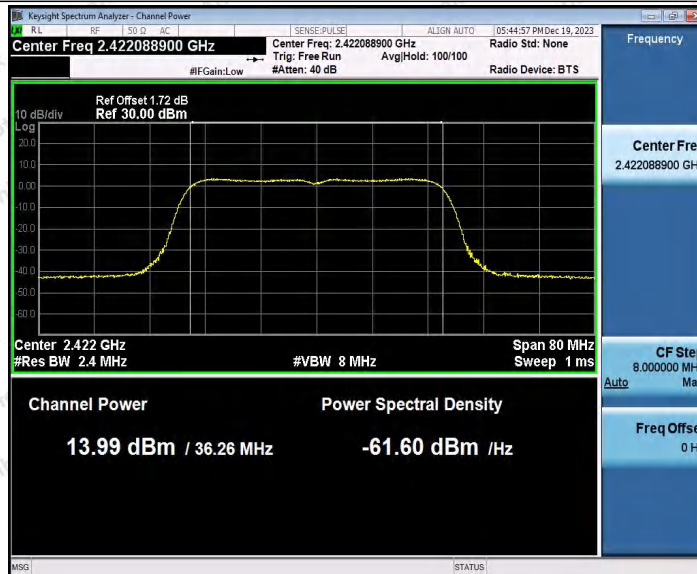




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

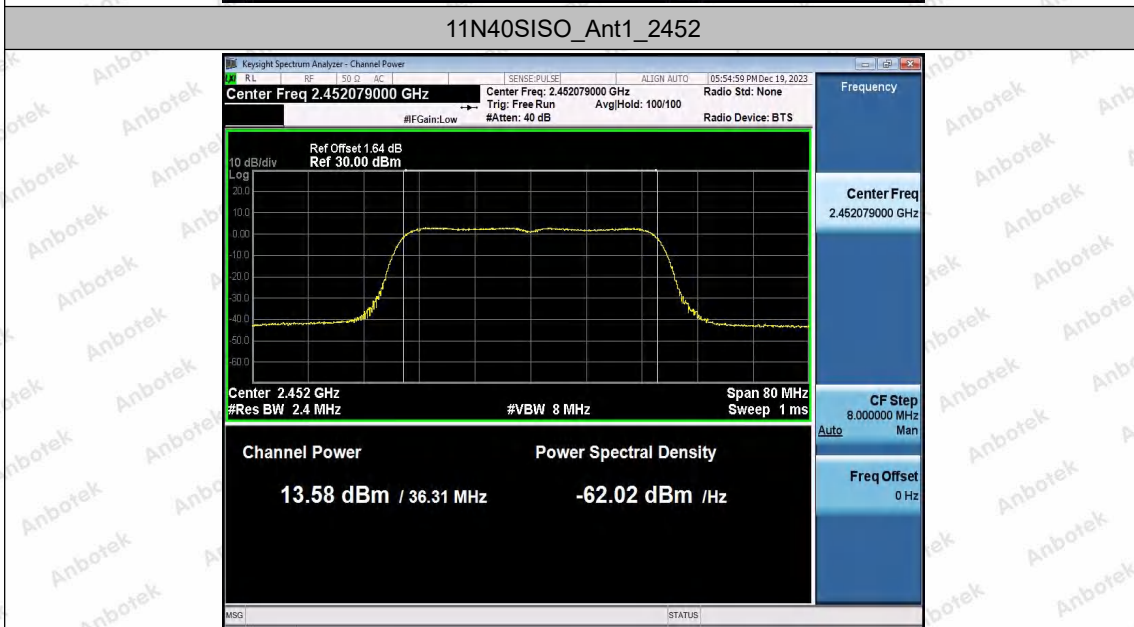
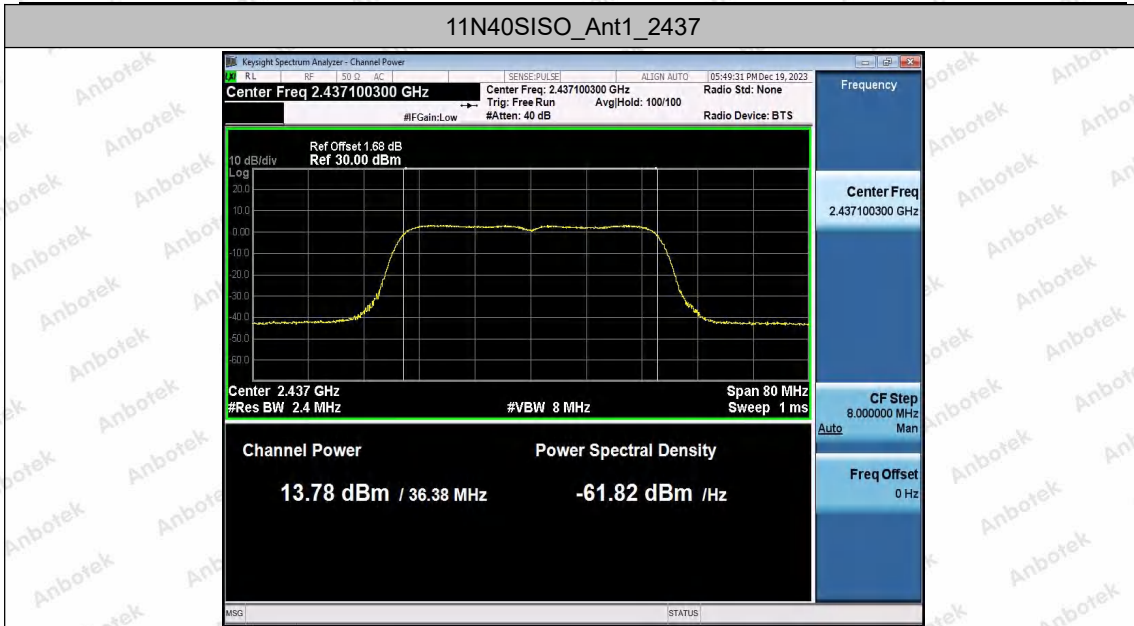


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Appendix D: Maximum power spectral density

Test Result

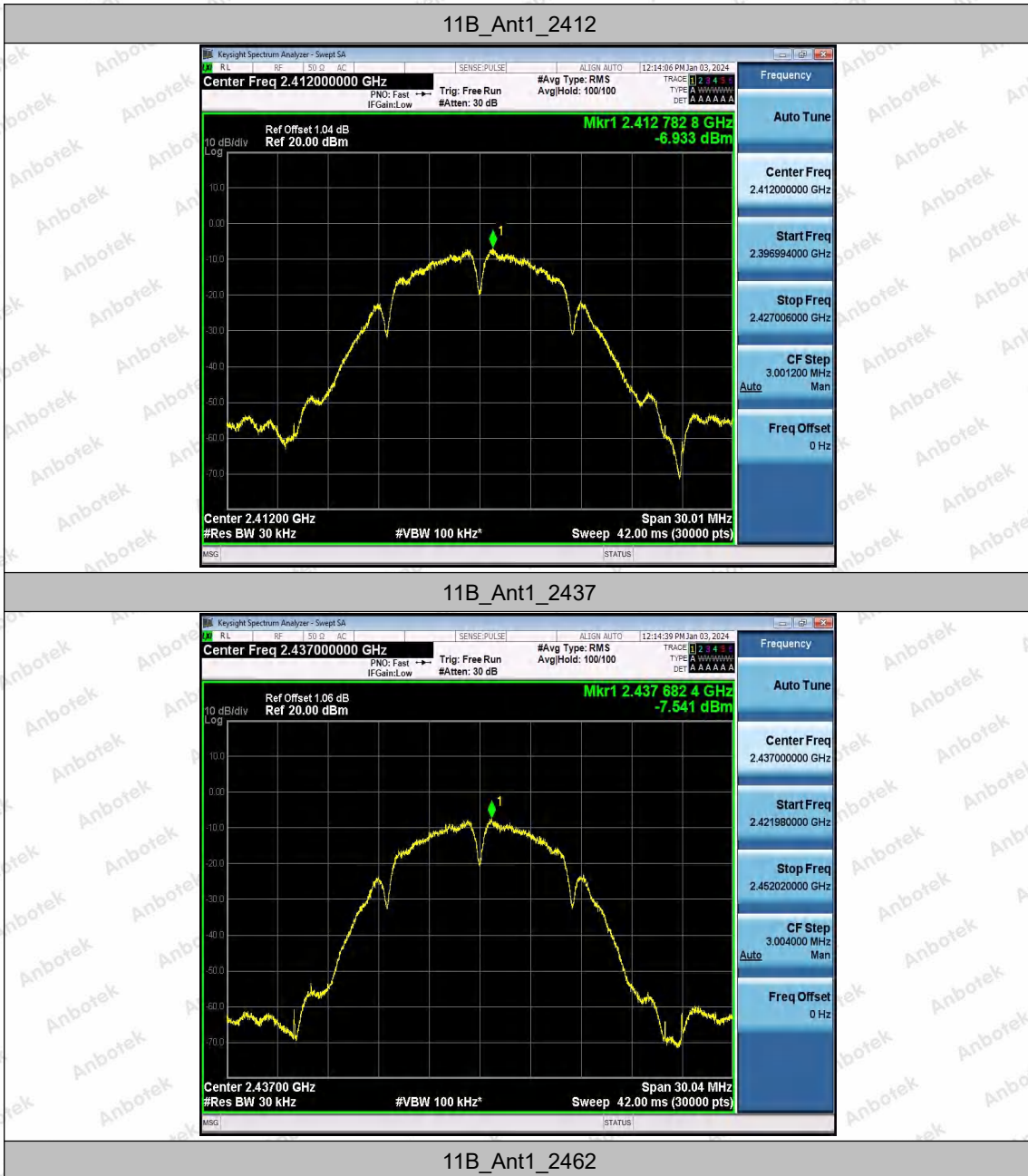
TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-6.93	-16.93	≤8.00	PASS
		2437	-7.54	-17.54	≤8.00	PASS
		2462	-7.80	-17.80	≤8.00	PASS
11G	Ant1	2412	-7.41	-17.41	≤8.00	PASS
		2437	-8.74	-18.74	≤8.00	PASS
		2462	-9.16	-19.16	≤8.00	PASS
11N20SISO	Ant1	2412	-8.53	-18.53	≤8.00	PASS
		2437	-9.54	-19.54	≤8.00	PASS
		2462	-9.69	-19.69	≤8.00	PASS
11N40SISO	Ant1	2422	-10.39	-20.39	≤8.00	PASS
		2437	-10.05	-20.05	≤8.00	PASS
		2452	-10.78	-20.78	≤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

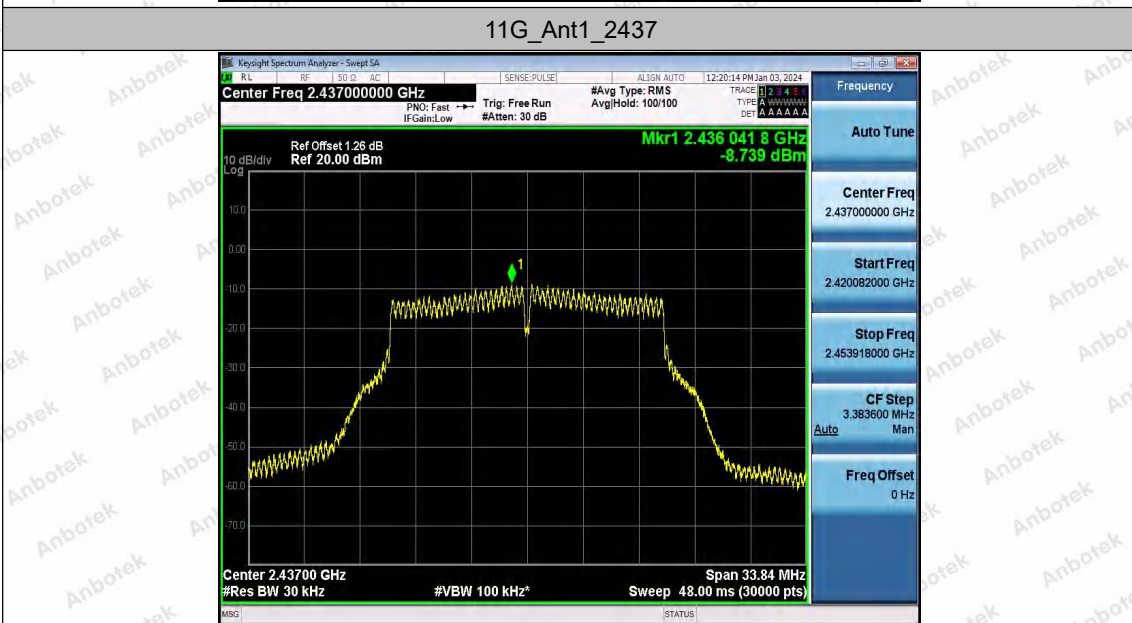
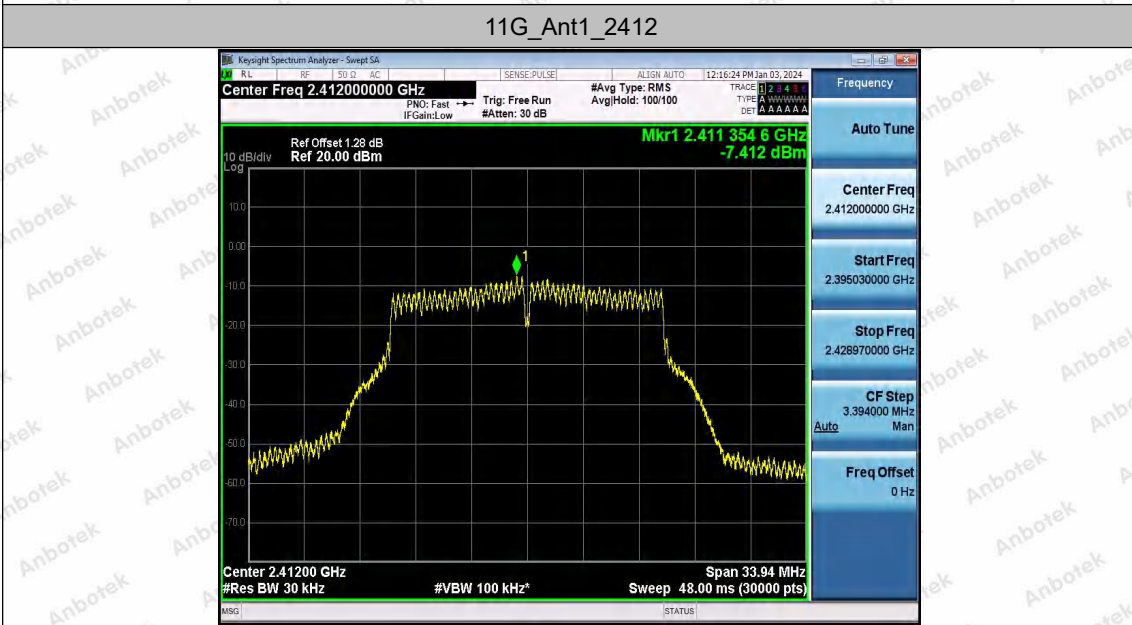


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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

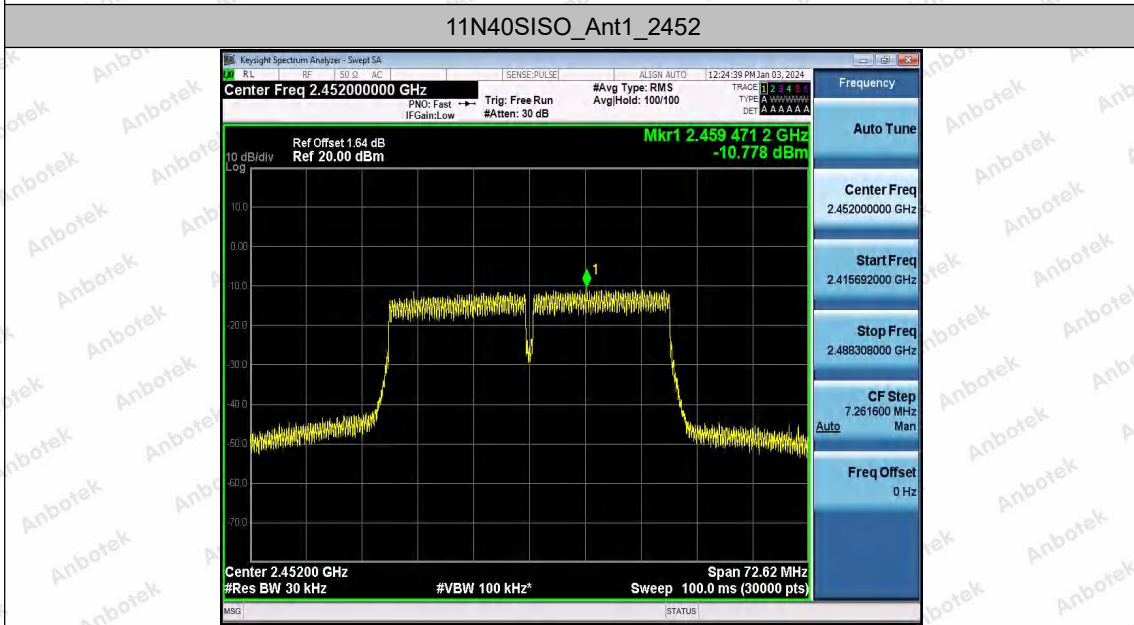
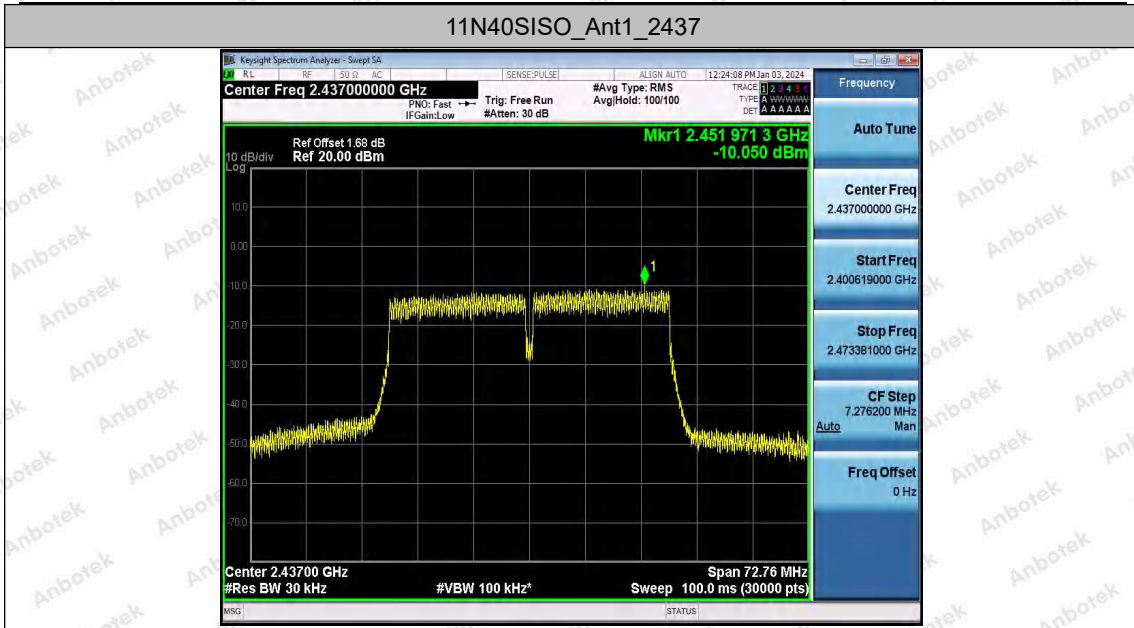


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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.57	-41.93	≤-25.43	PASS
		High	2462	3.36	-55.61	≤-26.64	PASS
11G	Ant1	Low	2412	2.94	-37.27	≤-27.06	PASS
		High	2462	1.57	-51.02	≤-28.43	PASS
11N20SISO	Ant1	Low	2412	-0.12	-38.69	≤-30.12	PASS
		High	2462	2.43	-50.77	≤-27.58	PASS
11N40SISO	Ant1	Low	2422	-0.31	-39.84	≤-30.31	PASS
		High	2452	-0.60	-49.31	≤-30.6	PASS

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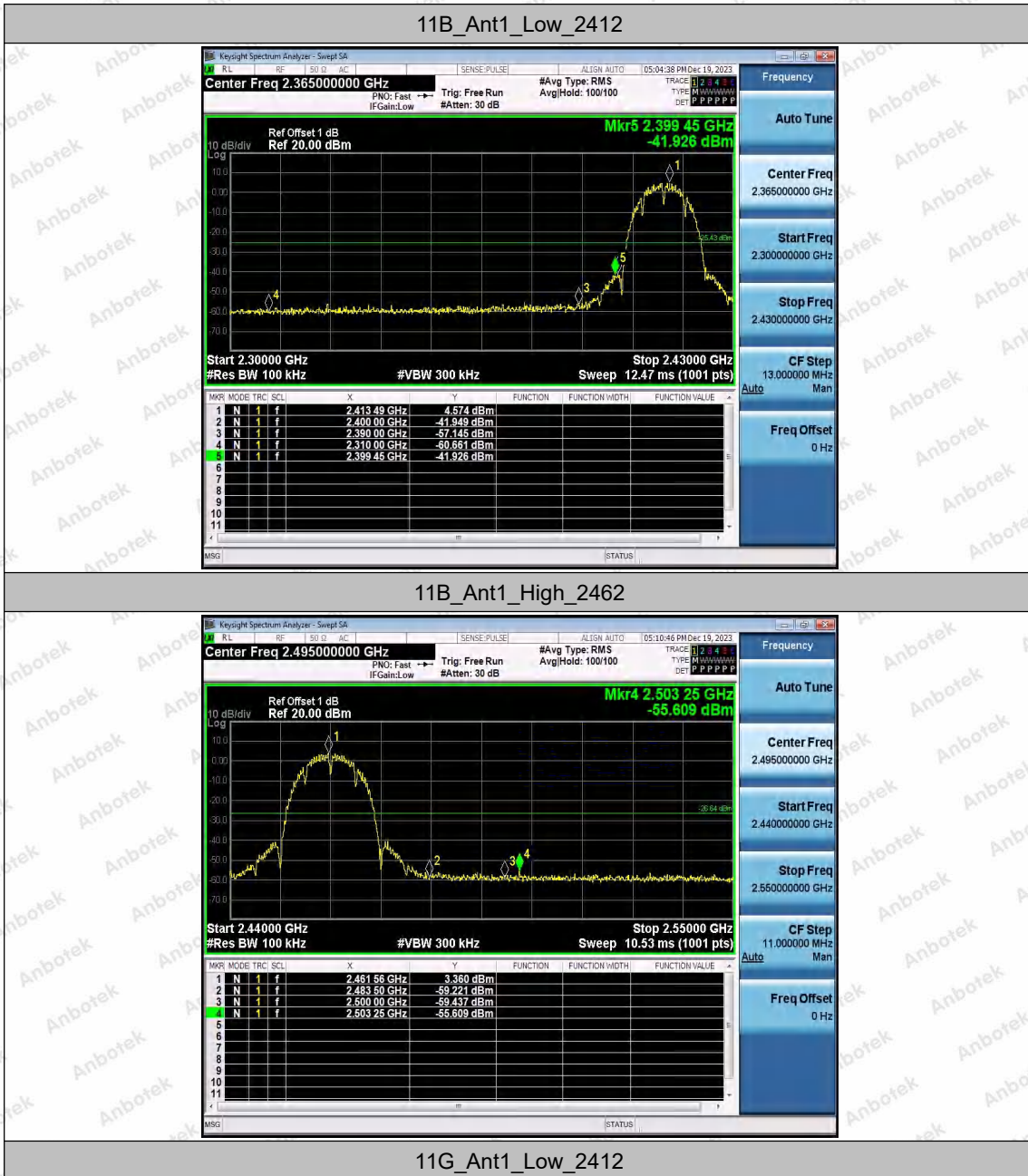
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Test Graphs

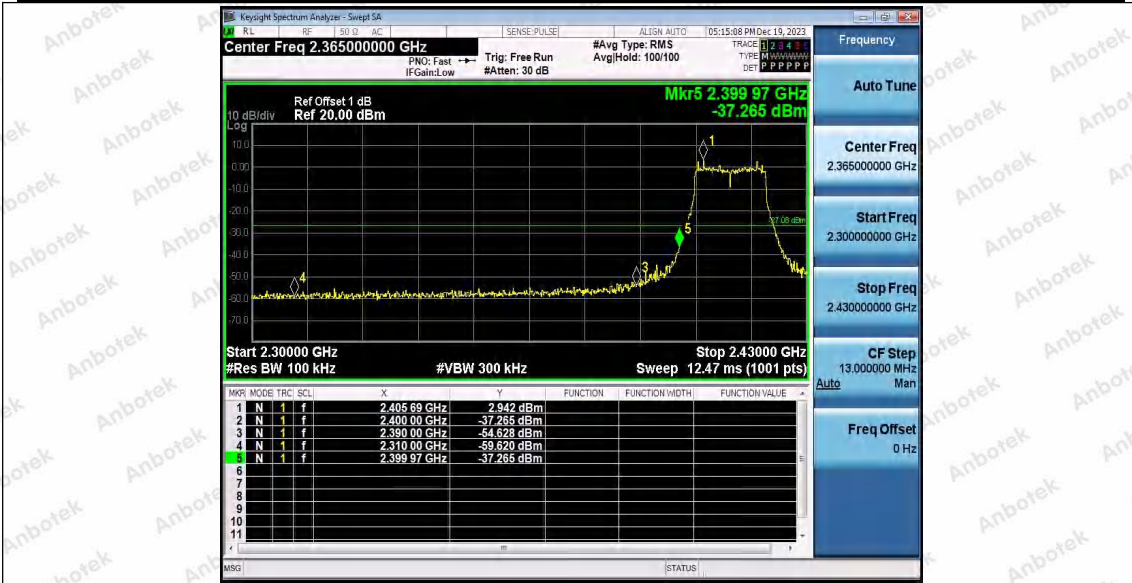


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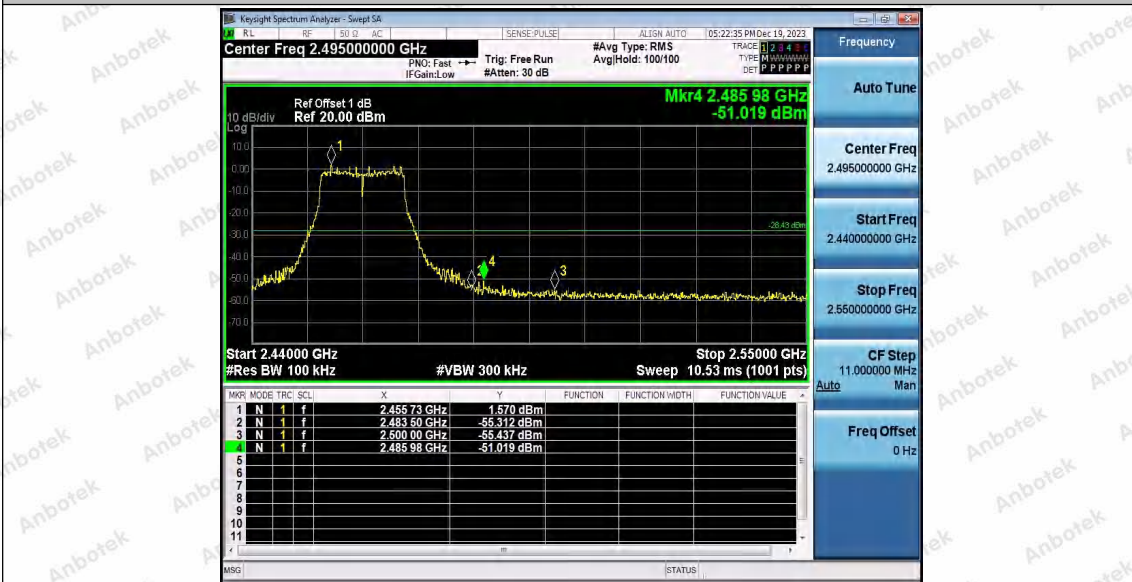
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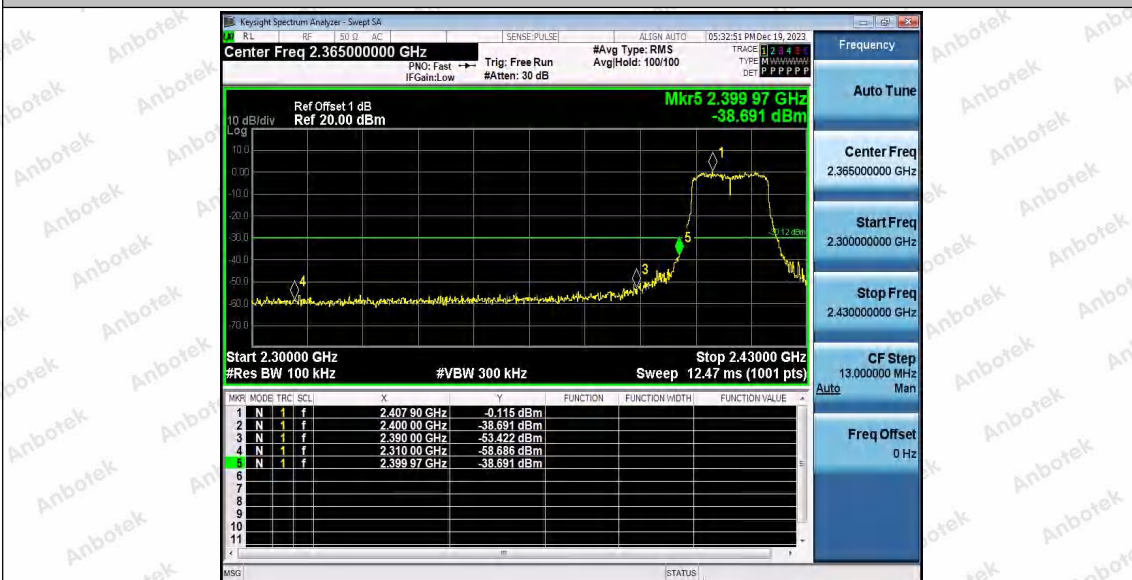




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



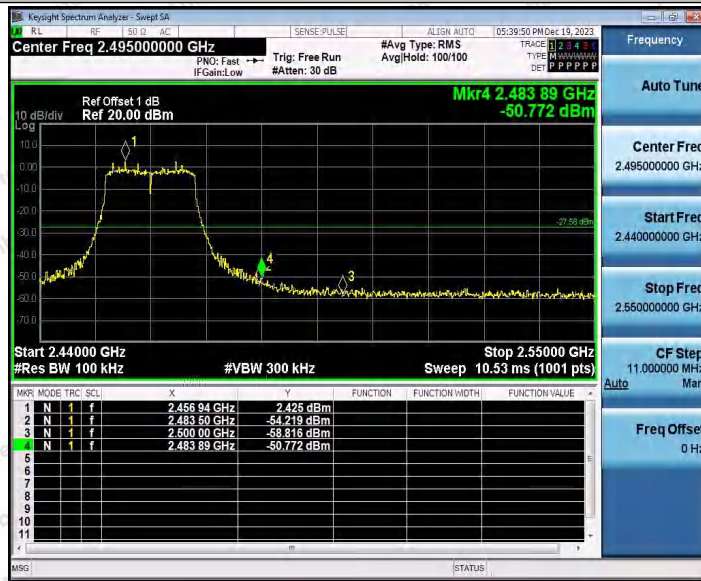
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-68.66	≤-26.79	PASS
			1000~26500	3.21	-53.55	≤-26.79	PASS
		2437	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-68.27	≤-27.36	PASS
			1000~26500	2.64	-53.64	≤-27.36	PASS
		2462	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-68.51	≤-28.4	PASS
			1000~26500	1.60	-54.17	≤-28.4	PASS
11G	Ant1	2412	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-67.87	≤-28.2	PASS
			1000~26500	1.80	-53.86	≤-28.2	PASS
		2437	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-68.01	≤-28.04	PASS
			1000~26500	1.96	-53.19	≤-28.04	PASS
		2462	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-68.71	≤-30.45	PASS
			1000~26500	-0.45	-52.98	≤-30.45	PASS
11N20SISO	Ant1	2412	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-68.03	≤-30.25	PASS
			1000~26500	-0.25	-53.75	≤-30.25	PASS
		2437	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-68.13	≤-30.8	PASS
			1000~26500	-0.80	-54.26	≤-30.8	PASS
		2462	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-69.04	≤-28.27	PASS
			1000~26500	1.73	-53.87	≤-28.27	PASS
11N40SISO	Ant1	2422	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-68.25	≤-30.59	PASS
			1000~26500	-0.59	-53.85	≤-30.59	PASS
		2437	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-60.21	≤-30.35	PASS
			1000~26500	-0.35	-53.7	≤-30.35	PASS
		2452	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-66.4	≤-33.09	PASS
			1000~26500	-3.09	-53.51	≤-33.09	PASS

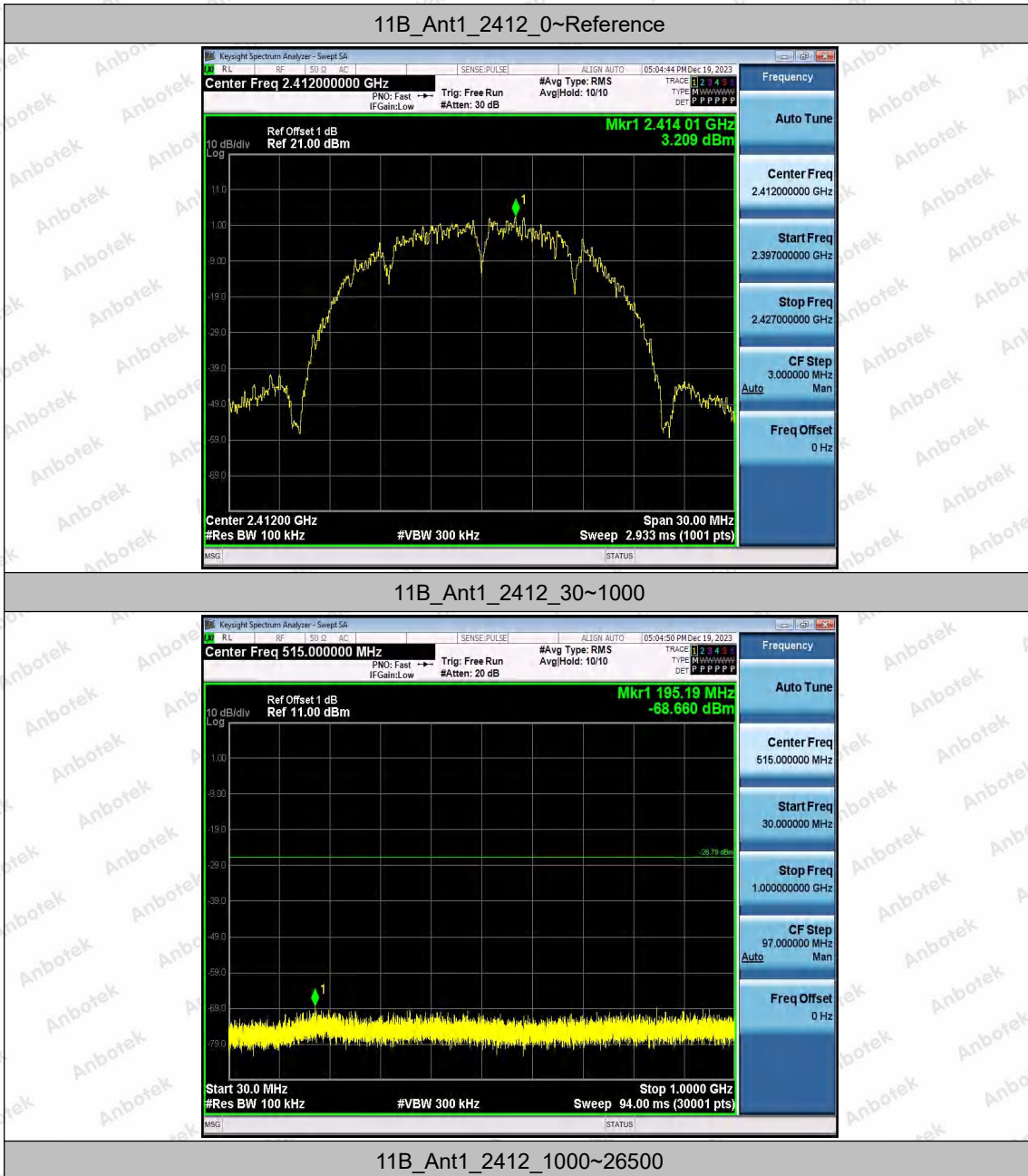
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Test Graphs

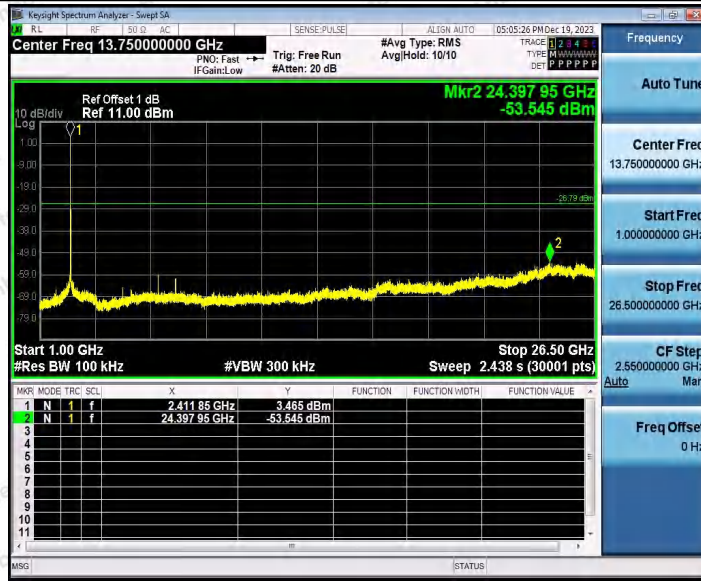


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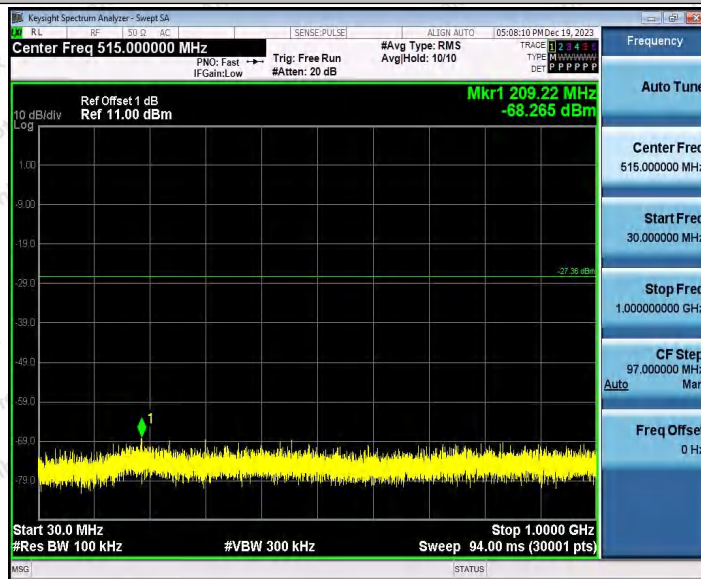




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



Shenzhen Anbotek Compliance Laboratory Limited

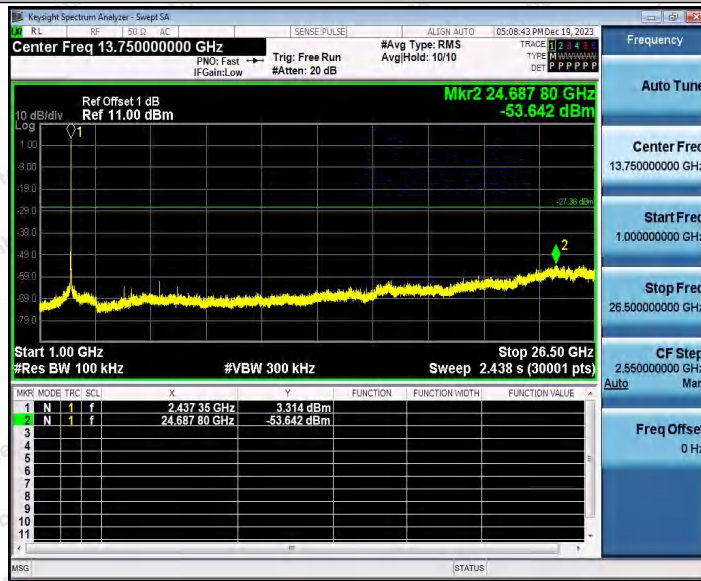
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



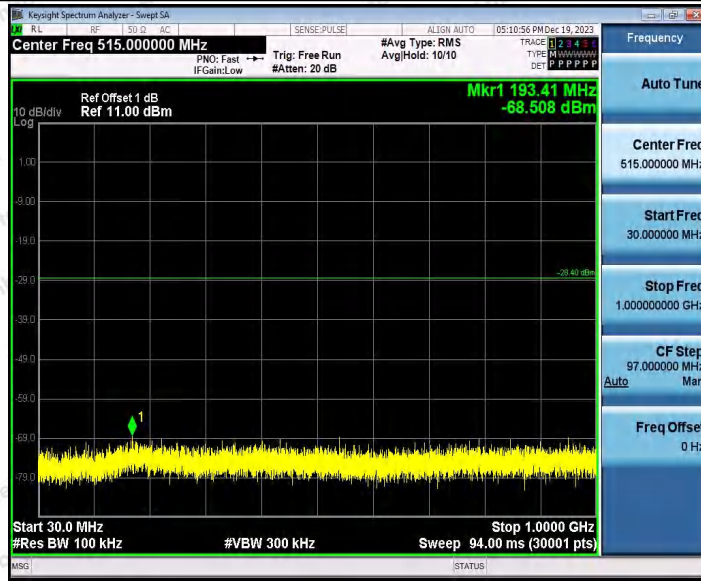
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Shenzhen Anbotek Compliance Laboratory Limited

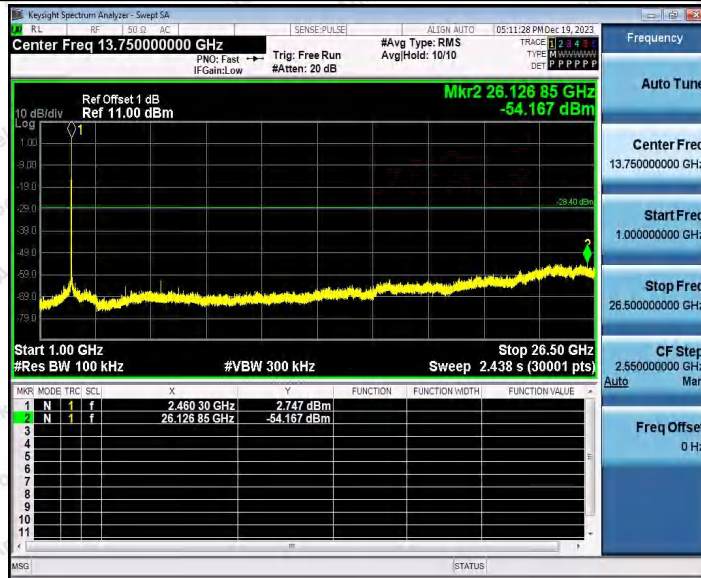
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



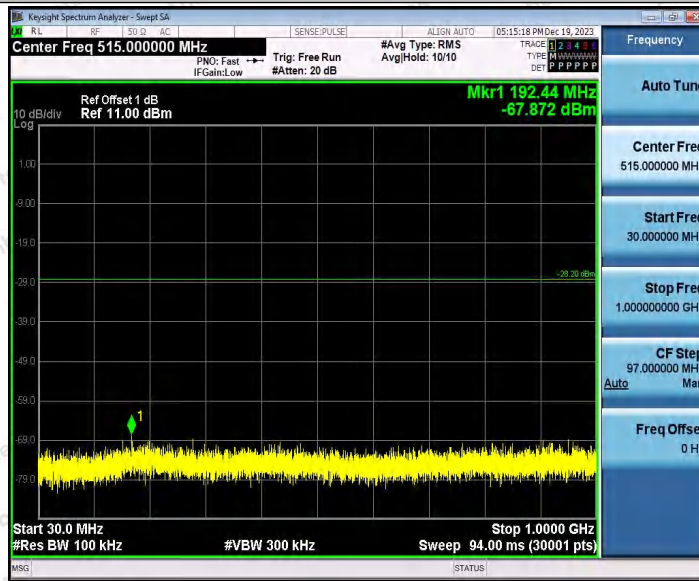
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

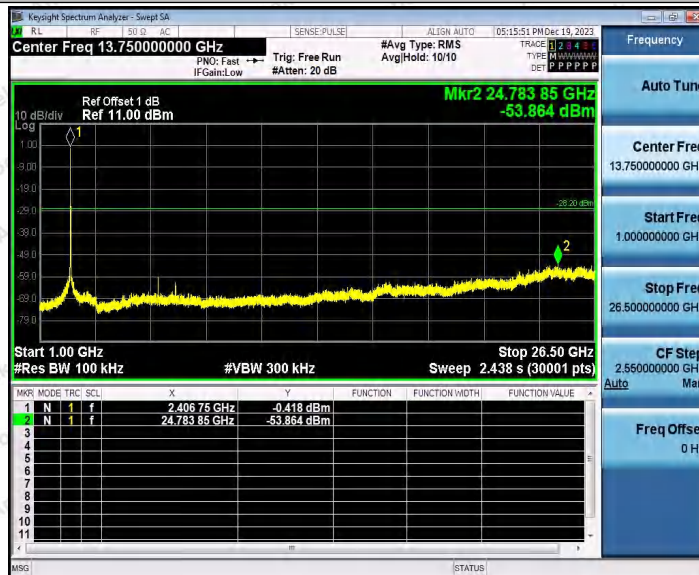
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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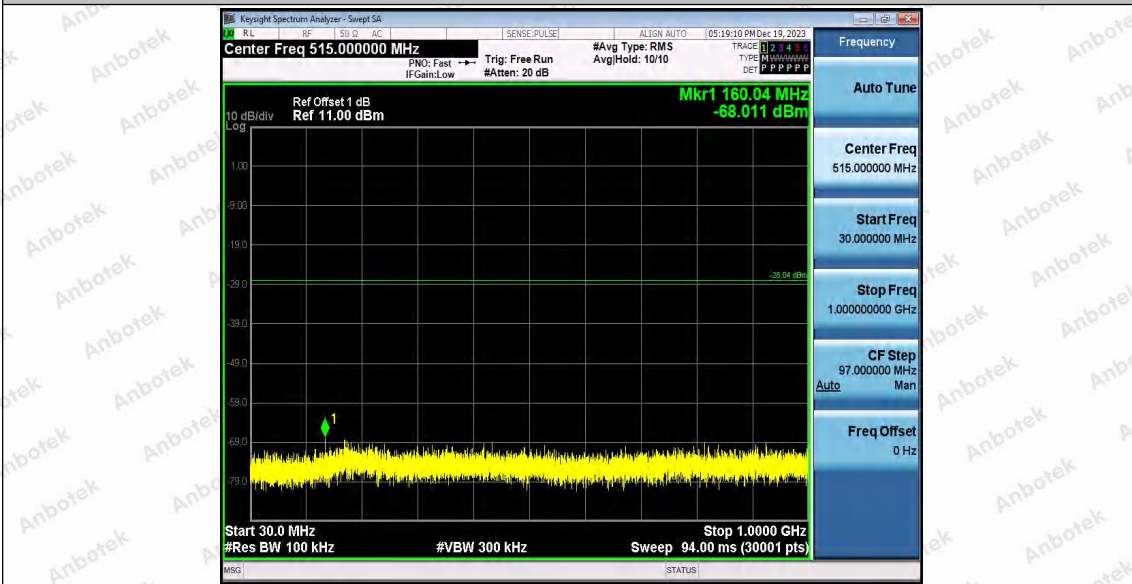
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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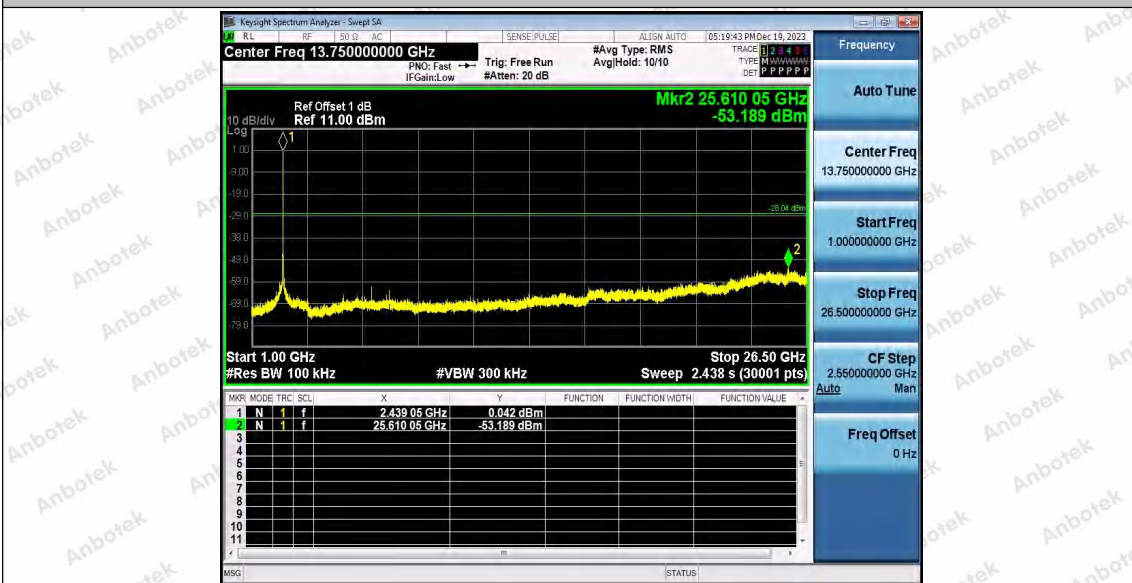




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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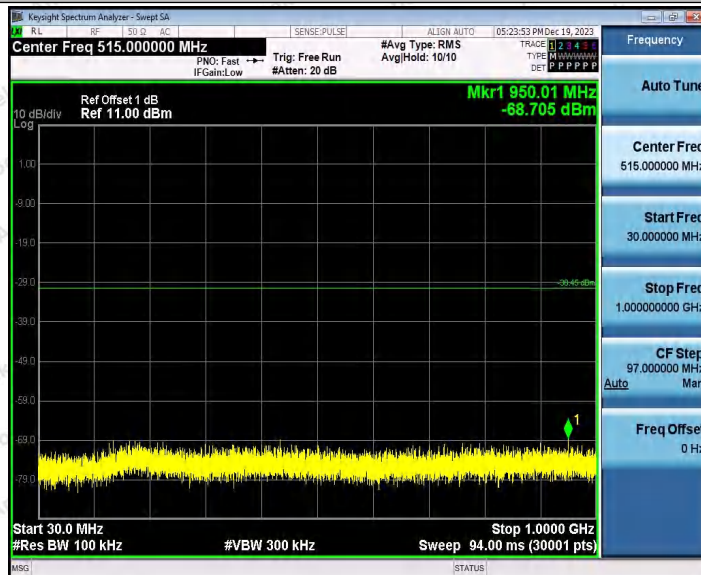
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



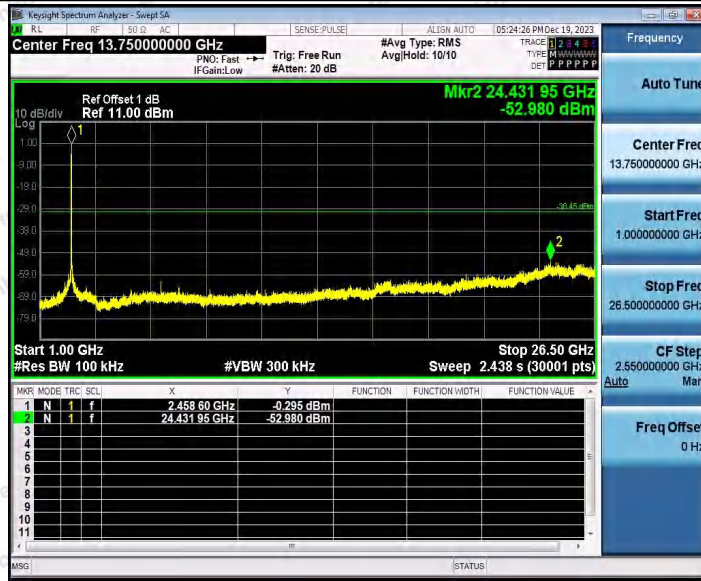
11G_Ant1_2462_1000~26500

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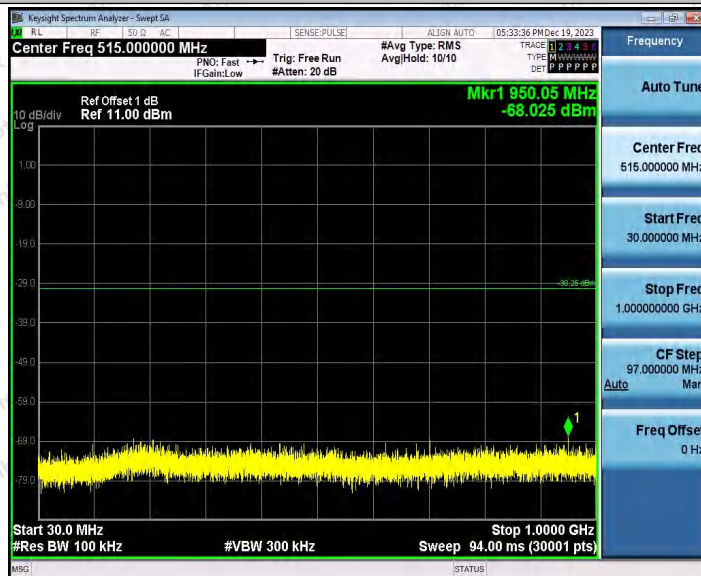




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



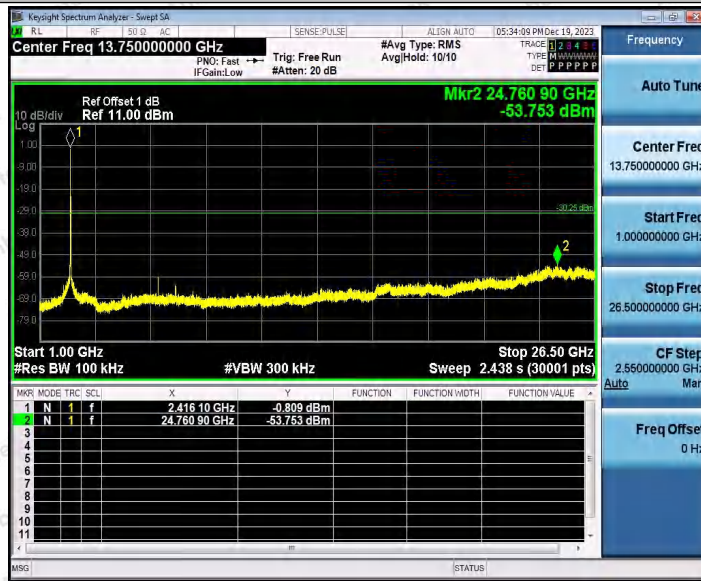
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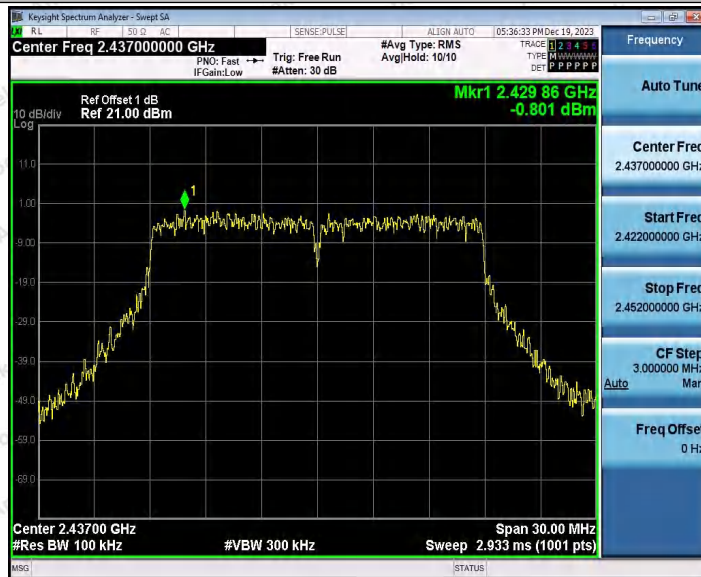
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



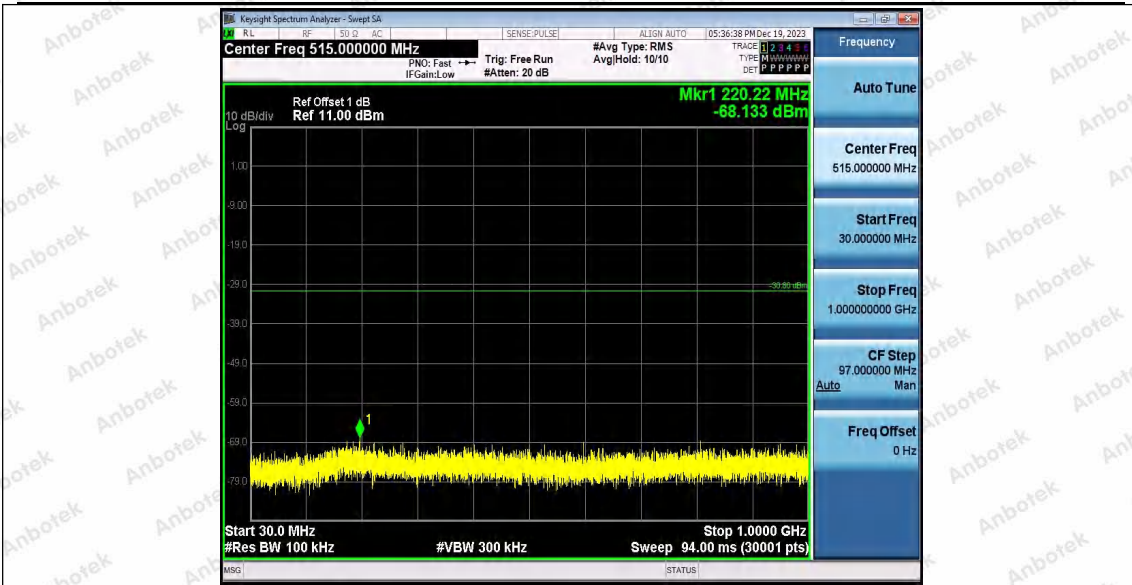
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Shenzhen Anbotek Compliance Laboratory Limited

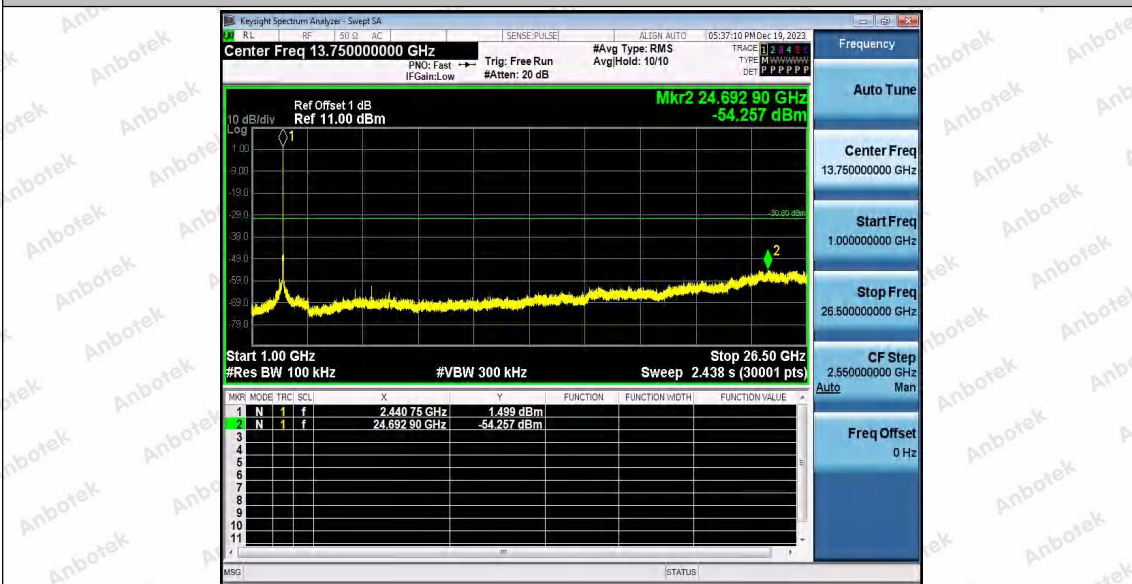
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



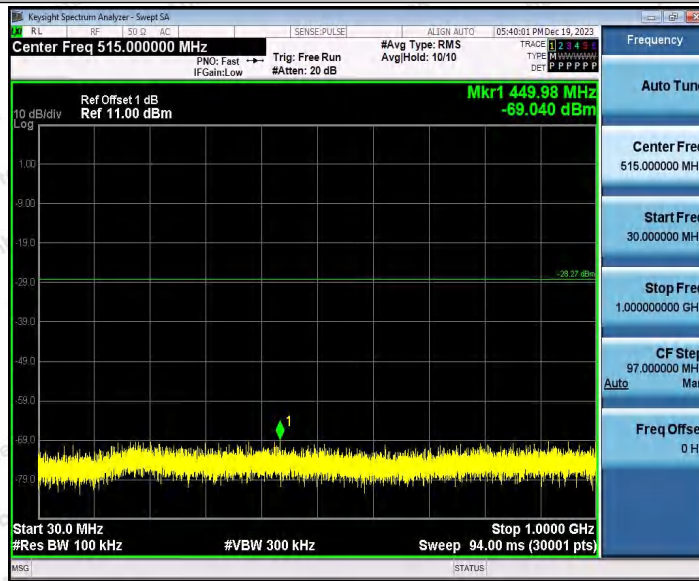
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

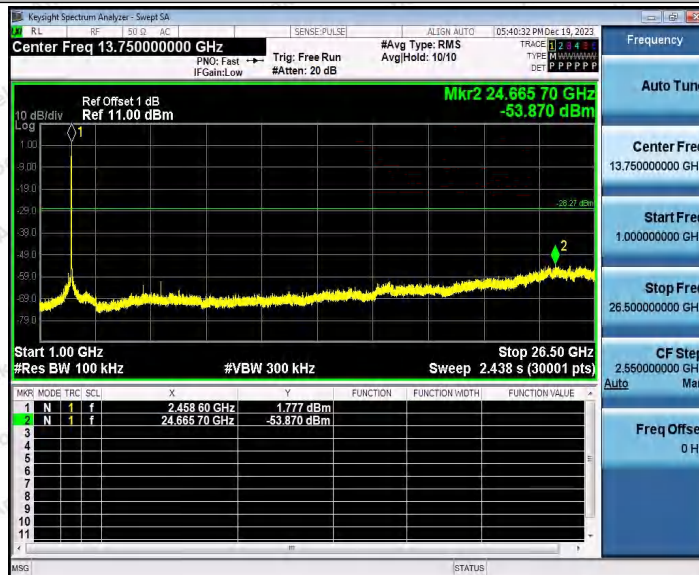
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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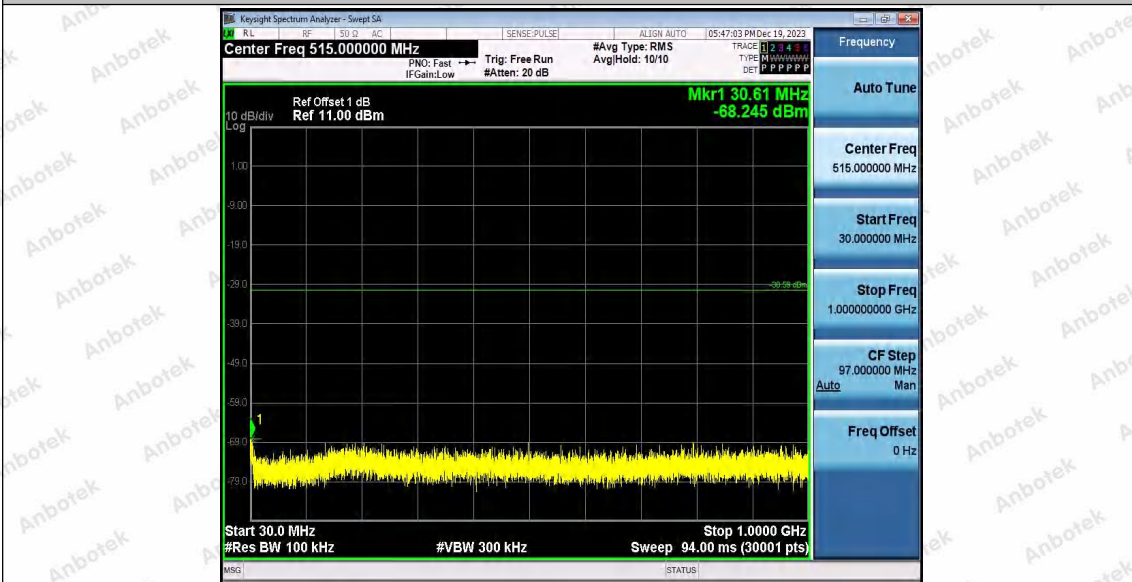
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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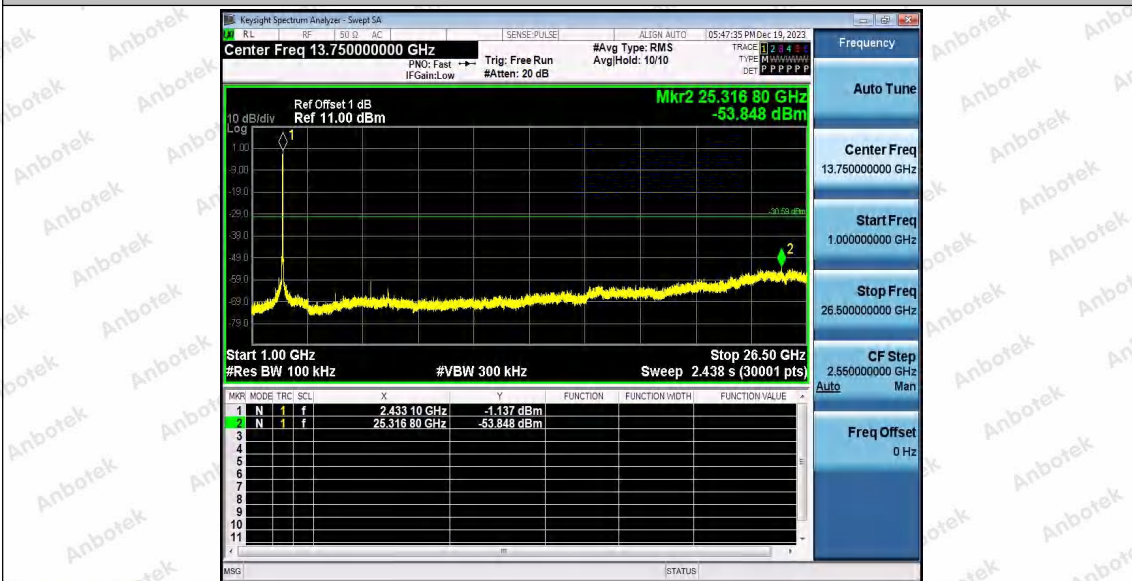




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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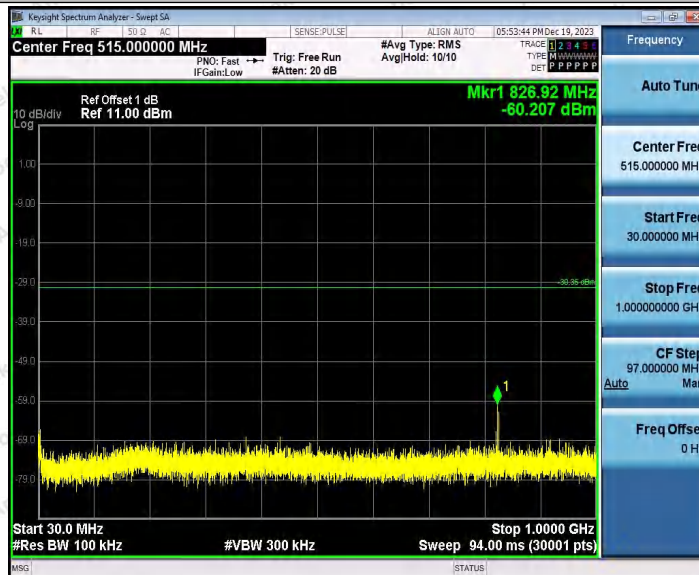
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11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



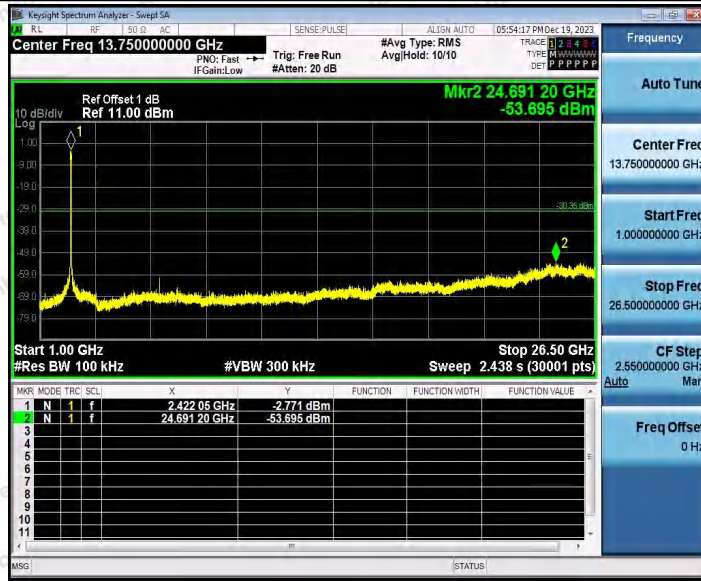
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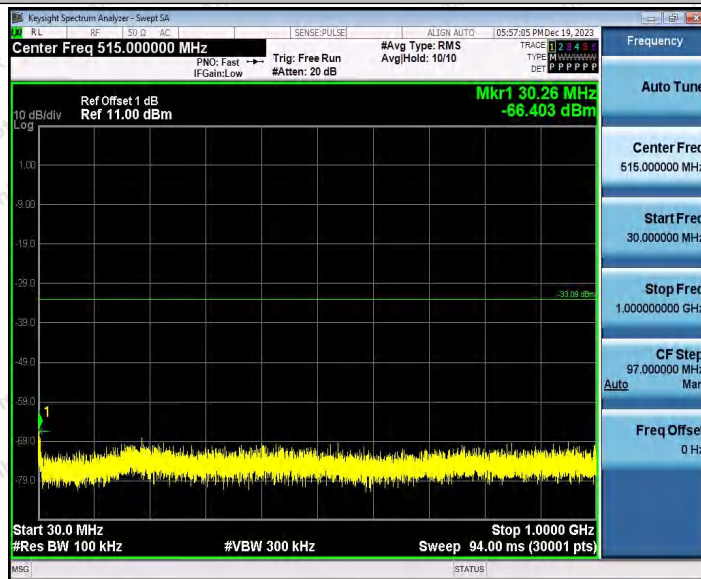




11N40SISO_Ant1_2452_0~Reference



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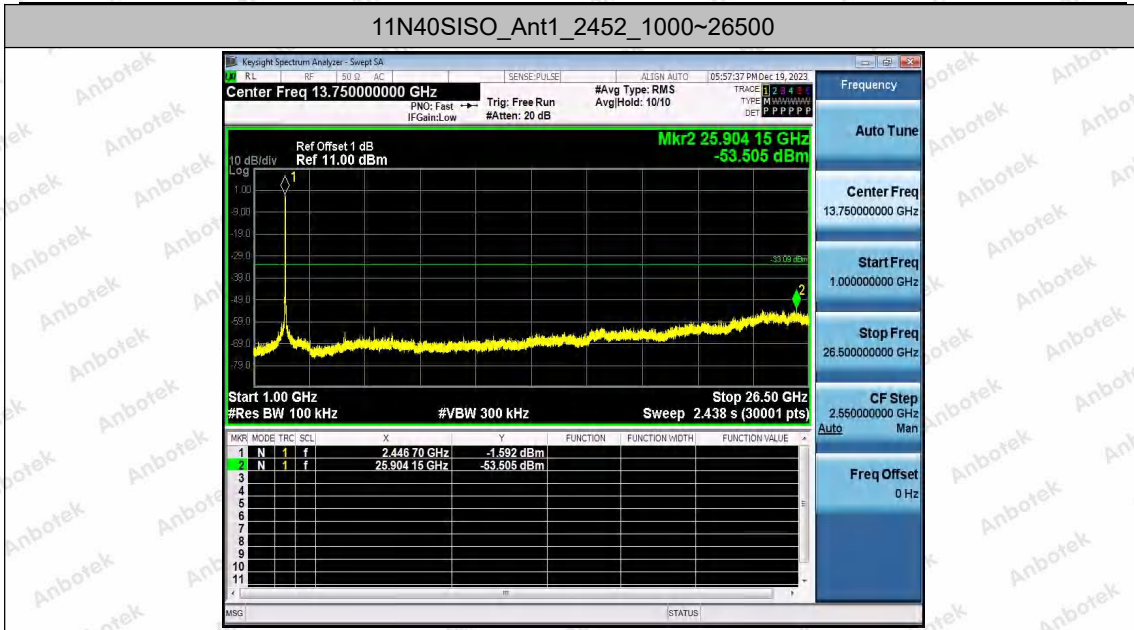


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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.54	99.12	0.04
		2437	12.42	12.58	98.73	0.06
		2462	12.43	12.53	99.20	0.03
11G	Ant1	2412	2.07	2.21	93.67	0.28
		2437	2.07	2.20	94.09	0.26
		2462	2.07	2.23	92.83	0.32
11N20SISO	Ant1	2412	1.93	2.01	96.02	0.18
		2437	1.92	2.06	93.20	0.31
		2462	1.92	2.08	92.31	0.35
11N40SISO	Ant1	2422	0.95	1.12	84.82	0.72
		2437	0.94	1.10	85.45	0.68
		2452	0.95	1.10	86.36	0.64

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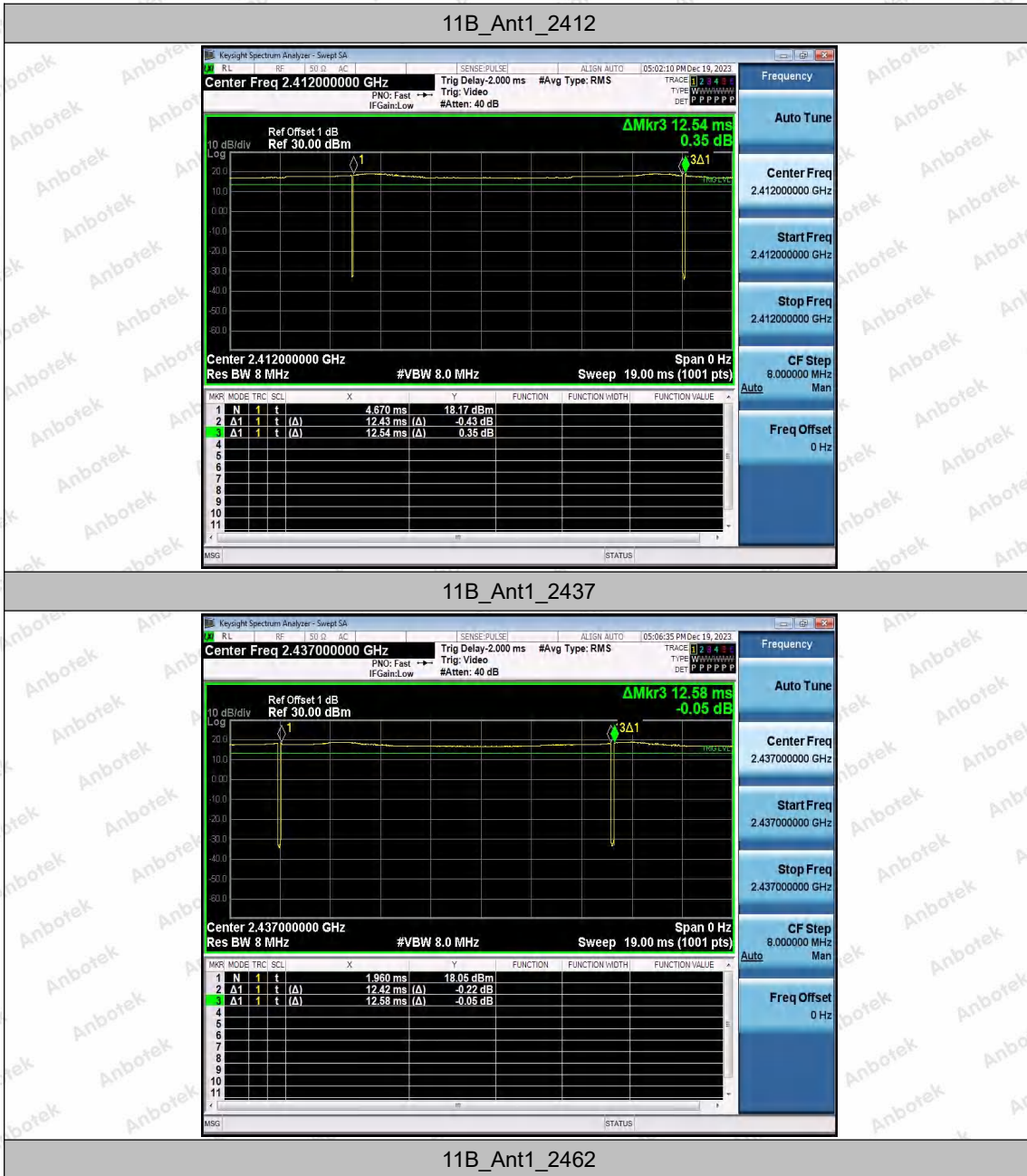
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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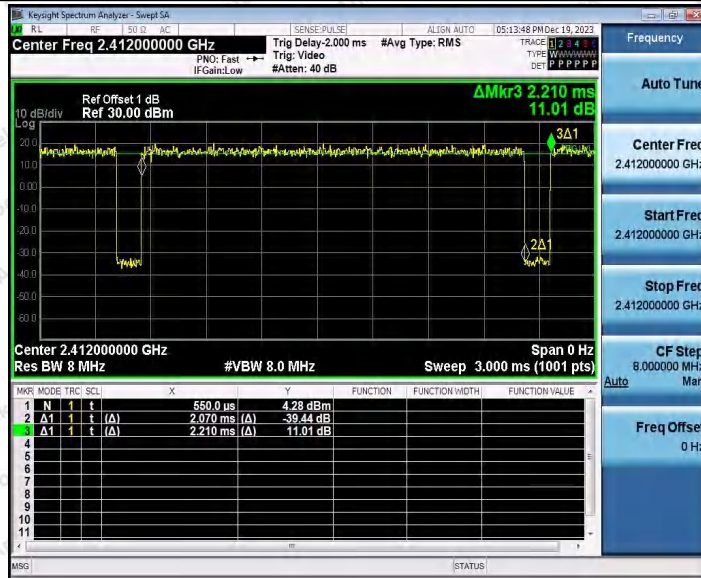


Test Graphs

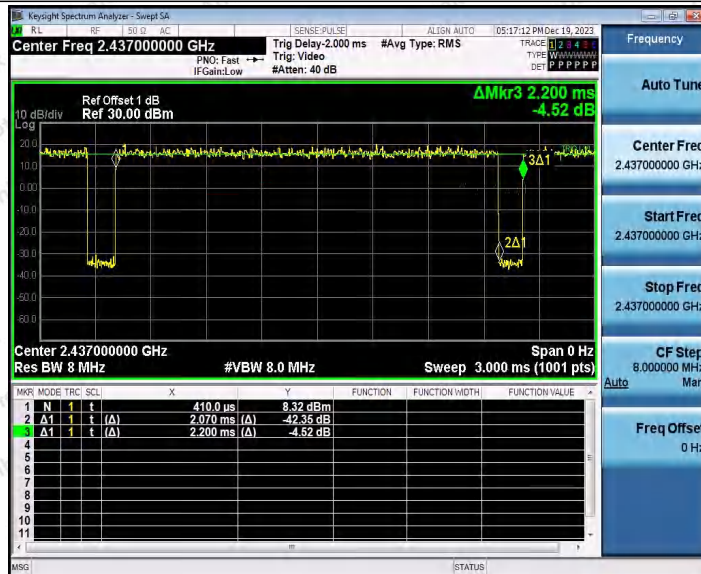




11G_Ant1_2412



11G_Ant1_2437

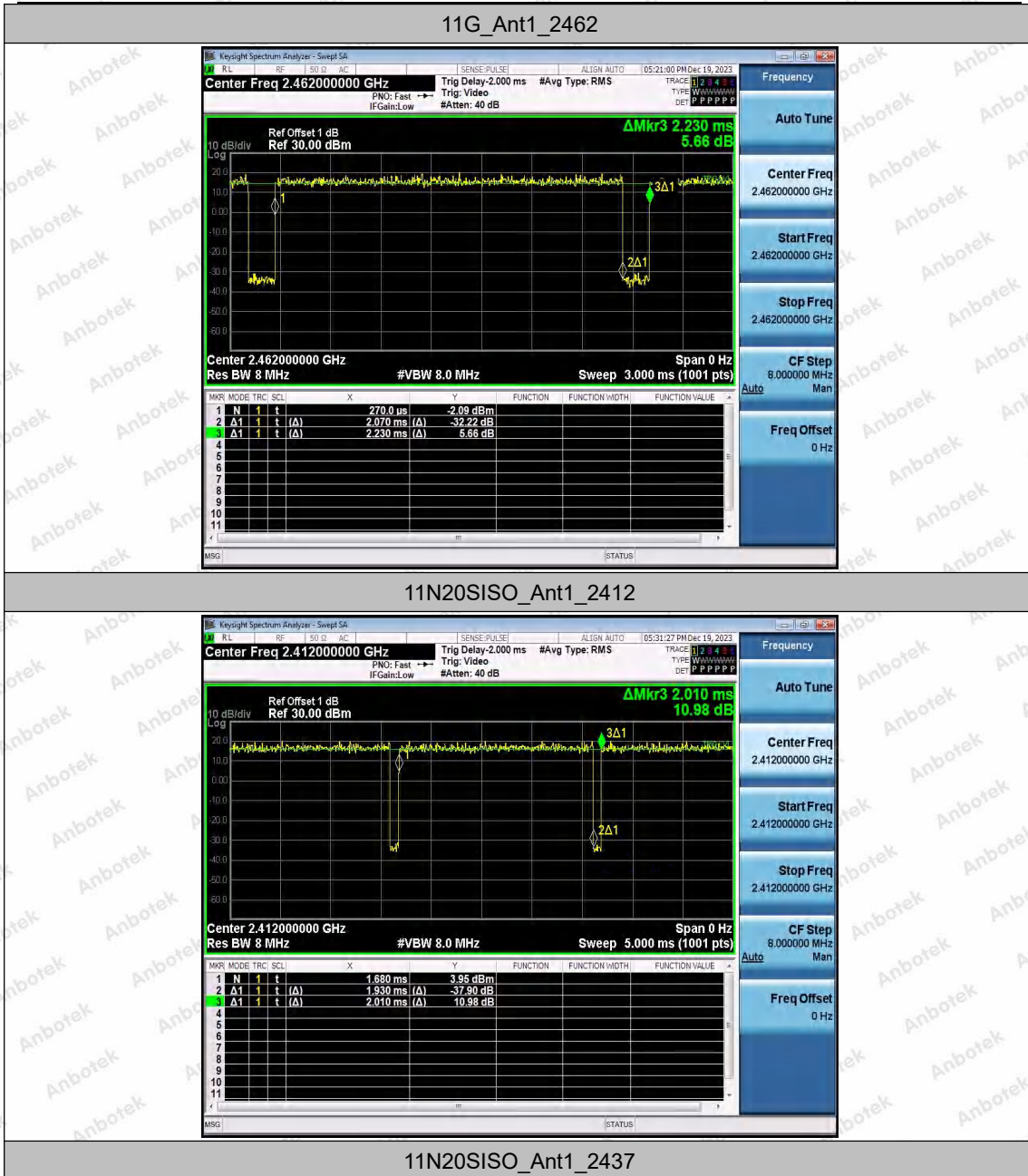


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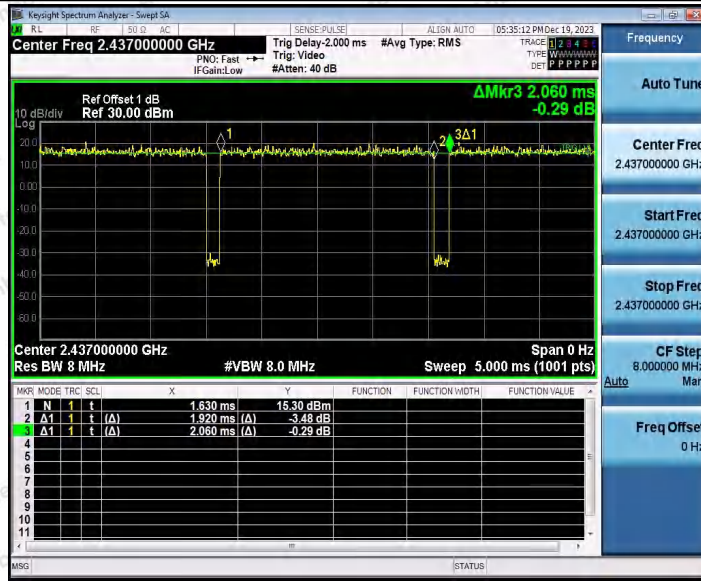


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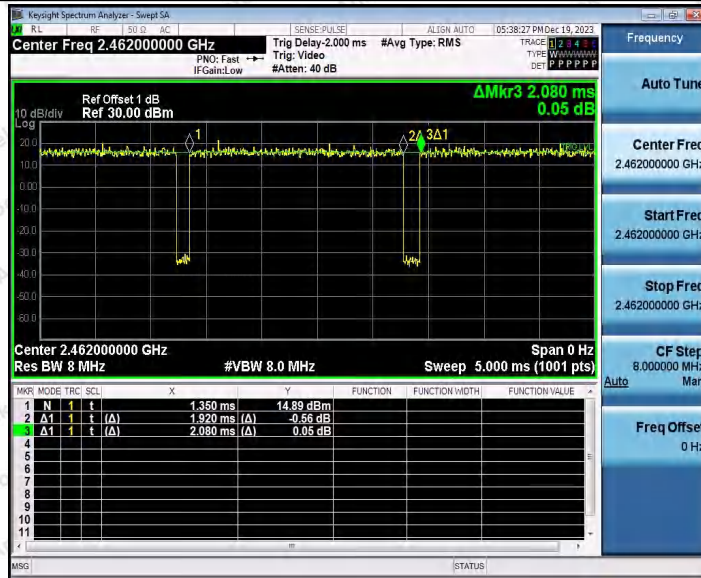
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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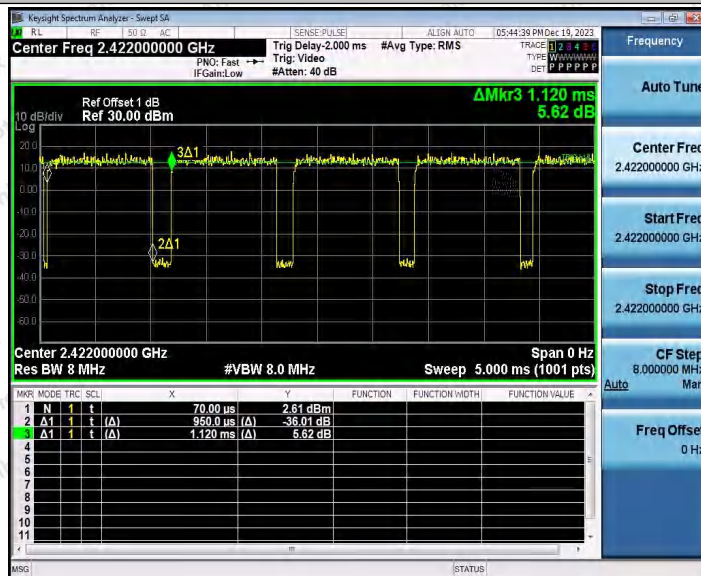




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

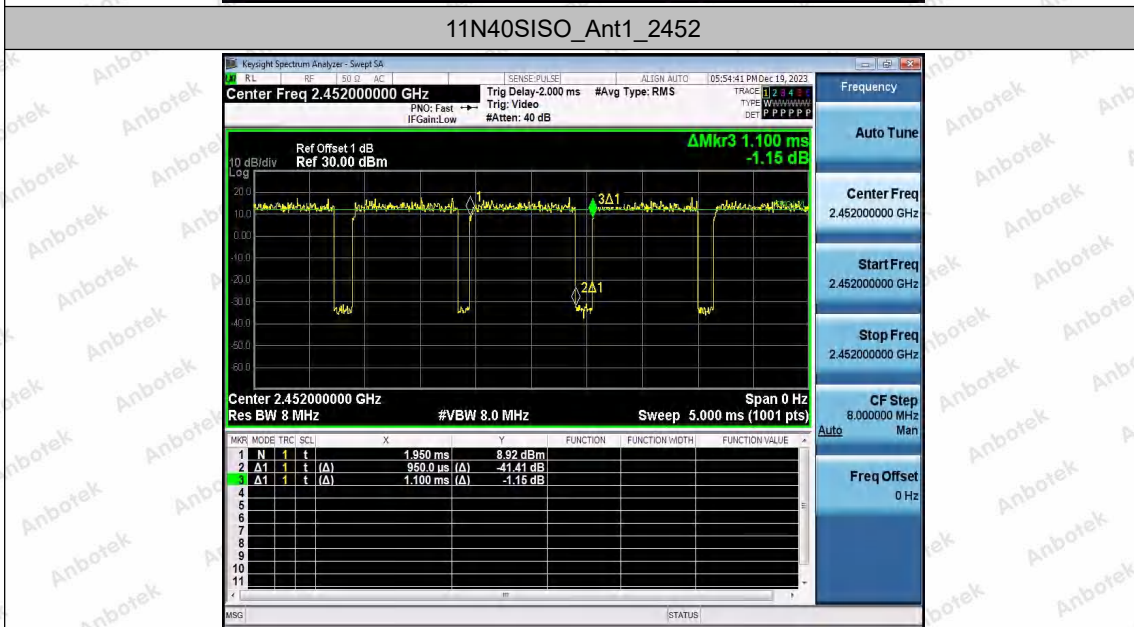
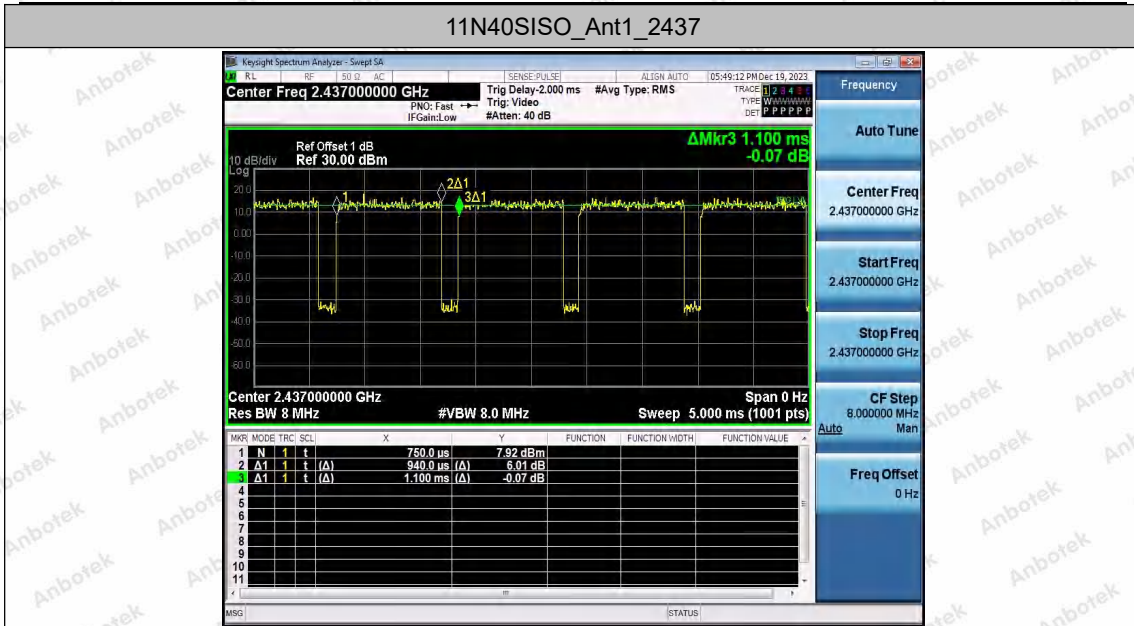


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