

Appendix Test Data

Report No.:	18220WC40045603	Test Sample No.:	1-2-2
Start Test Date:	2024.2.20	Finish Test Date:	2024.2.21
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

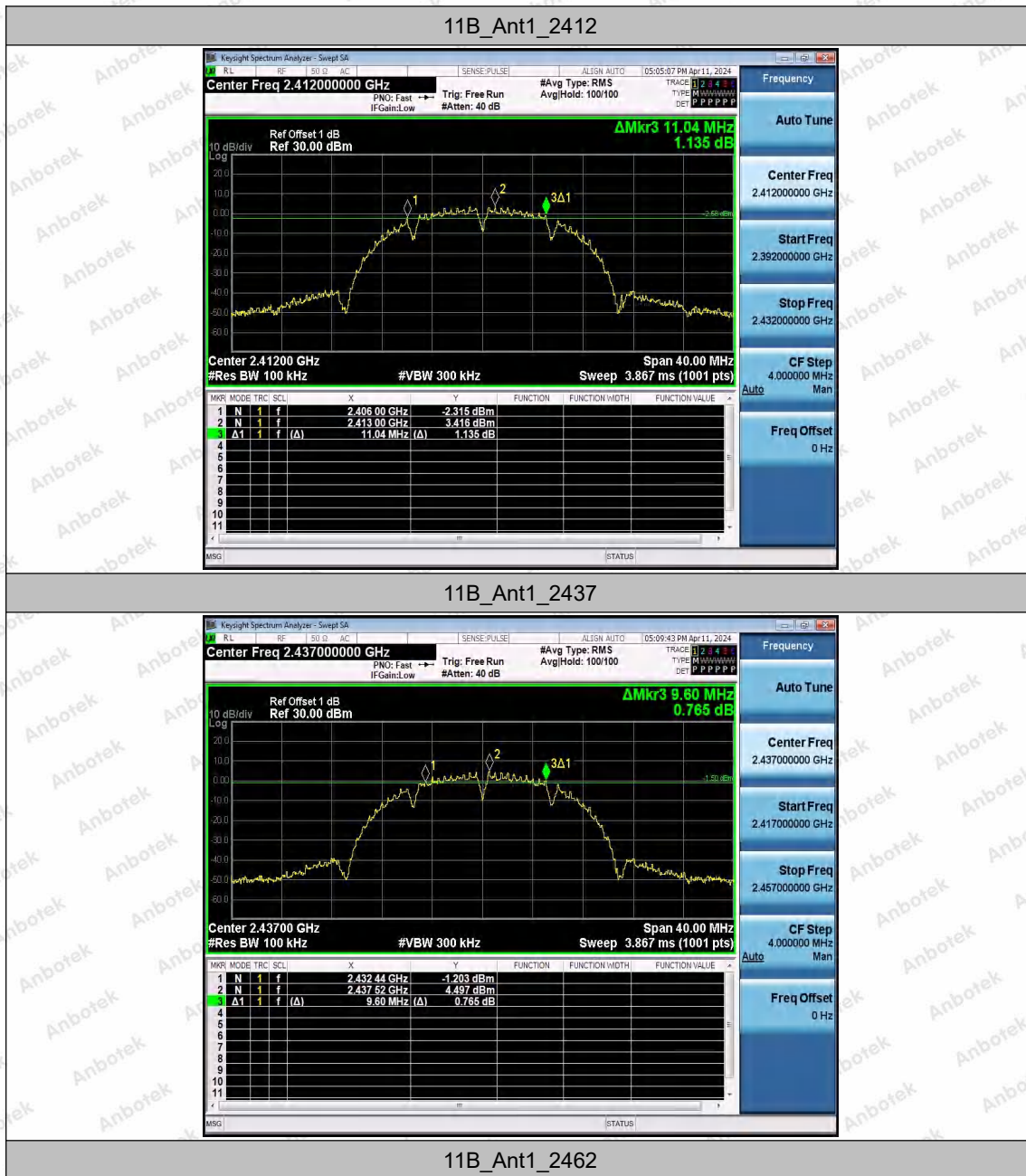
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.040	2406.000	2417.040	0.5	PASS
		2437	9.600	2432.440	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	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.240	2420.480	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.360	2453.400	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	36.000	2434.160	2470.160	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

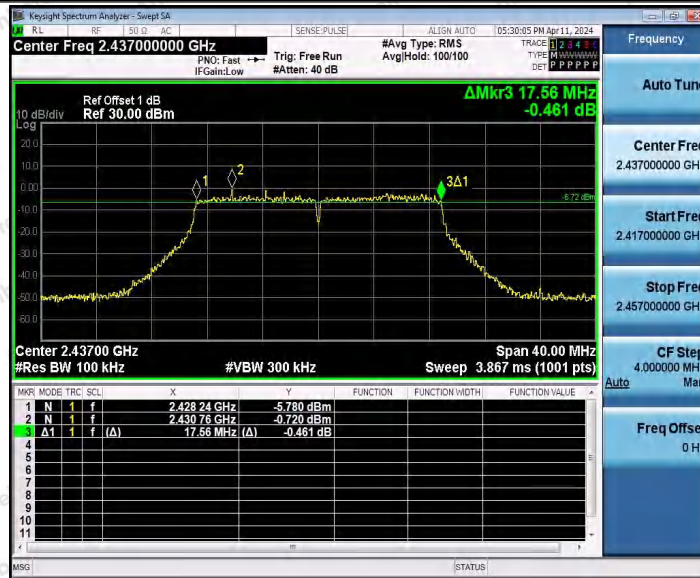
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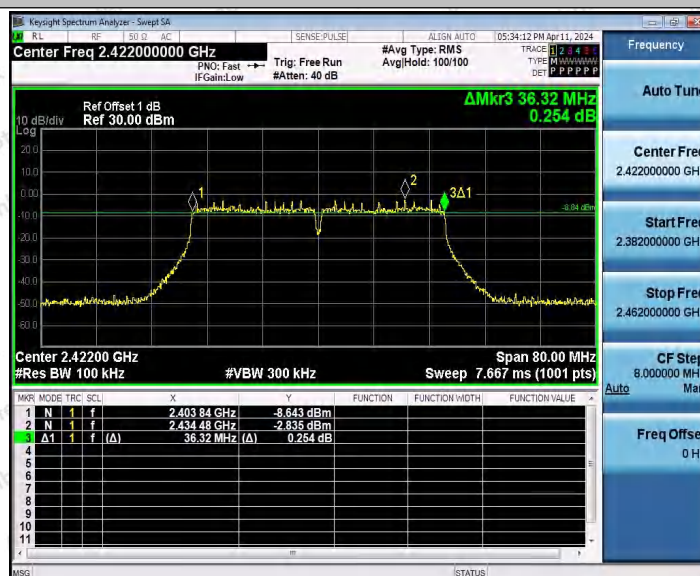




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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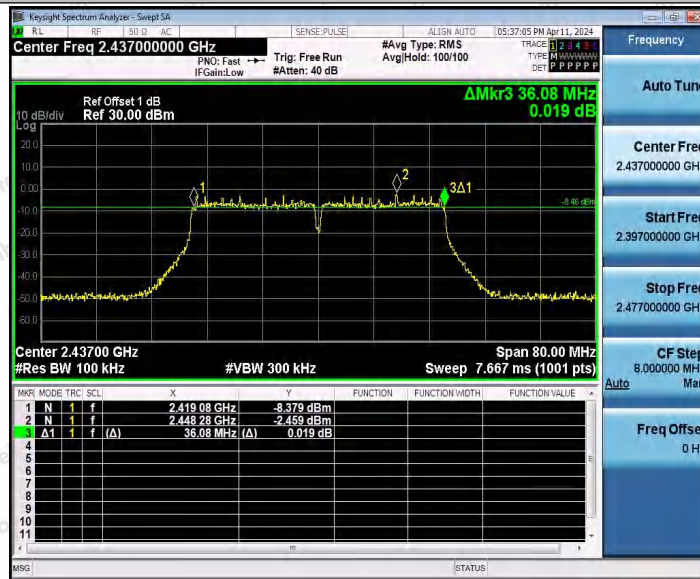
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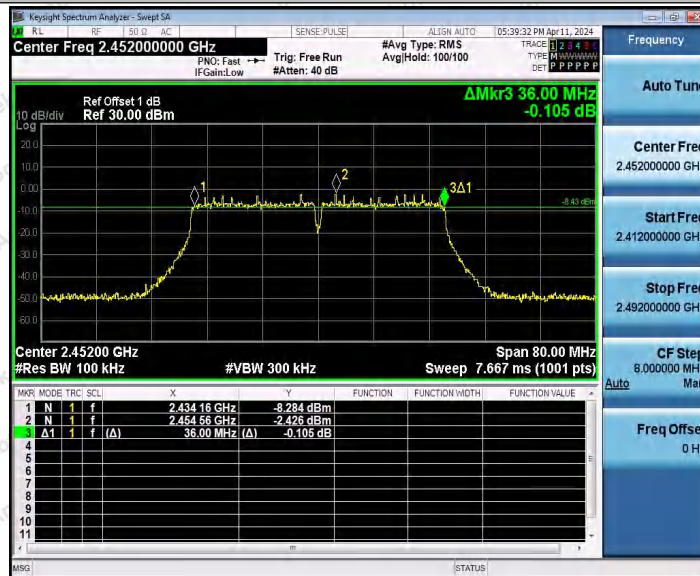
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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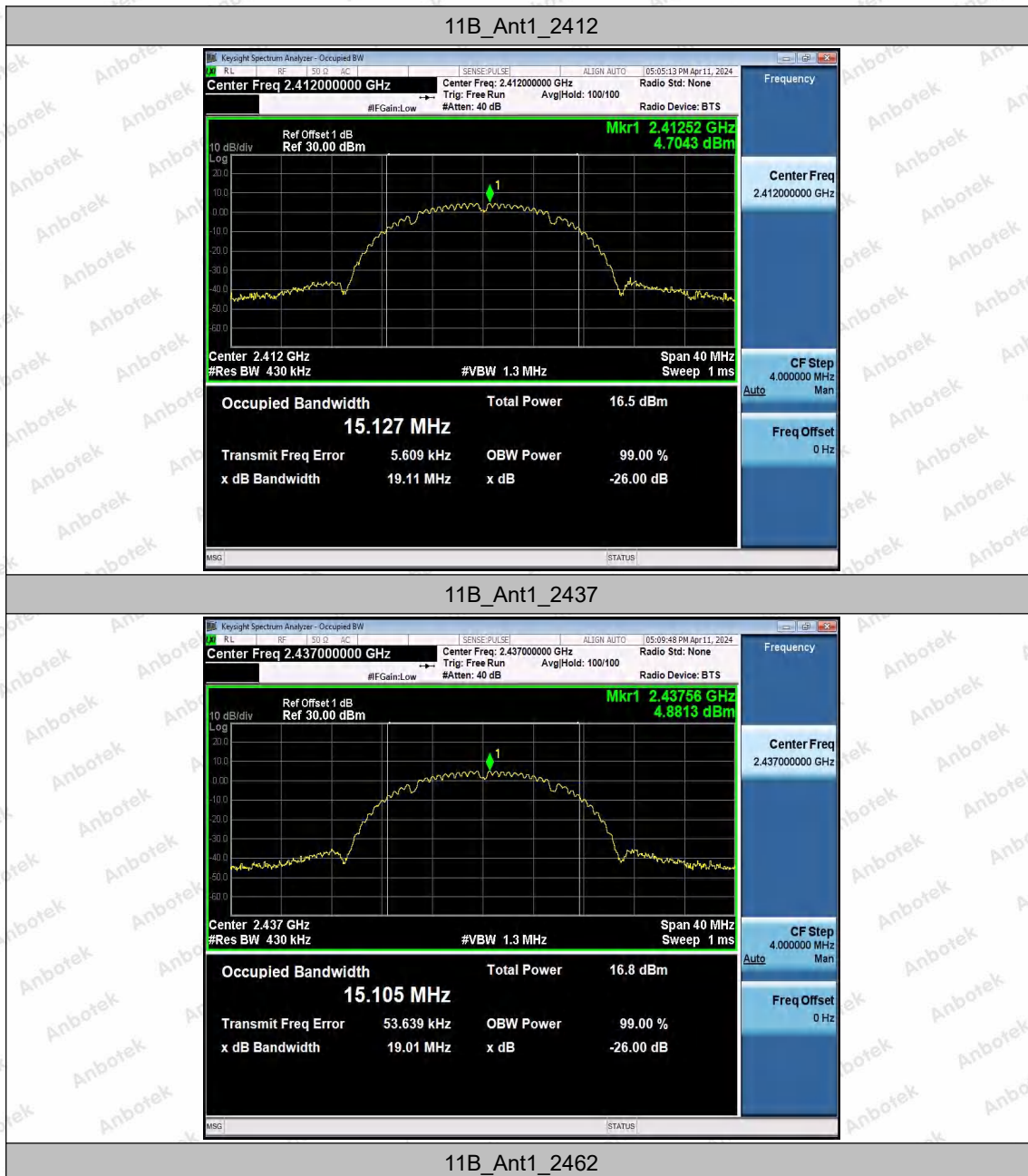
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.127	2404.4421	2419.5691	---	---
		2437	15.105	2429.5011	2444.6061	---	---
		2462	15.077	2454.4491	2469.5261	---	---
11G	Ant1	2412	17.199	2403.4385	2420.6375	---	---
		2437	17.144	2428.4690	2445.6130	---	---
		2462	17.008	2453.4790	2470.4870	---	---
11N20SISO	Ant1	2412	18.100	2403.0200	2421.1200	---	---
		2437	18.068	2428.0261	2446.0941	---	---
		2462	18.011	2453.0612	2471.0722	---	---
11N40SISO	Ant1	2422	36.638	2403.7275	2440.3655	---	---
		2437	36.554	2418.8459	2455.3999	---	---
		2452	36.647	2433.7726	2470.4196	---	---



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

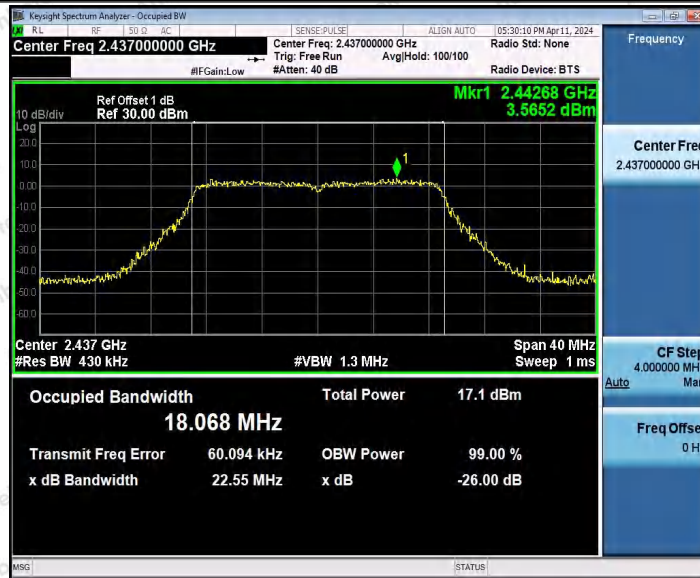
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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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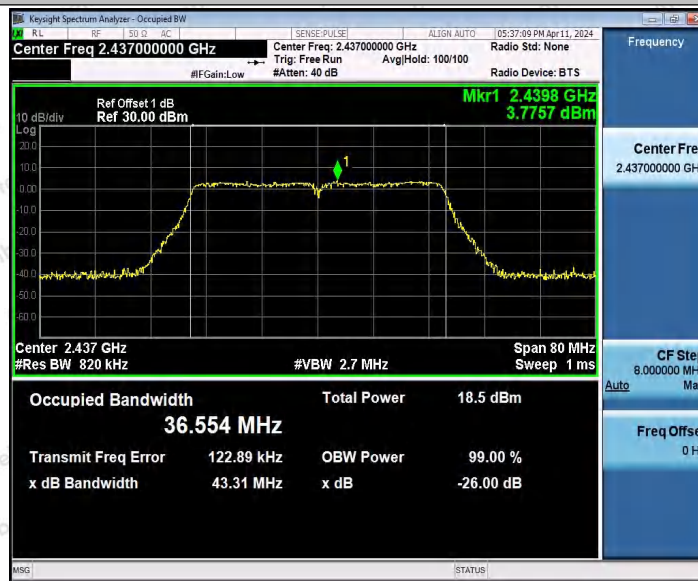
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix C: Maximum conducted output power

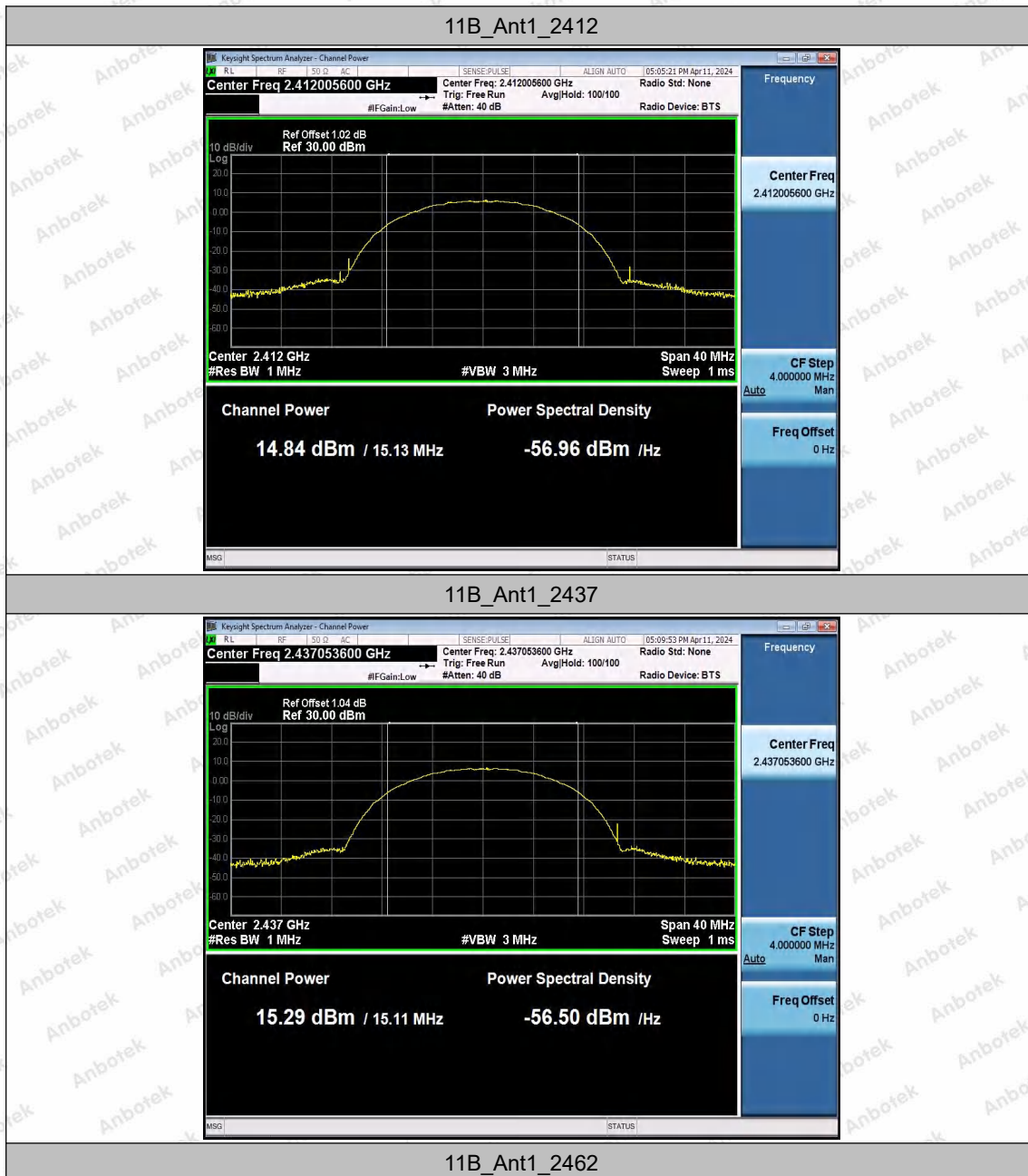
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.82	99.52	0.02	14.84	≤30.00	PASS
		2437	15.25	99.04	0.04	15.29	≤30.00	PASS
		2462	15.47	99.28	0.03	15.50	≤30.00	PASS
11G	Ant1	2412	15.13	93.24	0.30	15.43	≤30.00	PASS
		2437	15.45	95.39	0.20	15.65	≤30.00	PASS
		2462	15.75	92.38	0.34	16.09	≤30.00	PASS
11N20SI SO	Ant1	2412	15.02	93.20	0.31	15.33	≤30.00	PASS
		2437	15.43	93.20	0.31	15.74	≤30.00	PASS
		2462	15.98	94.58	0.24	16.22	≤30.00	PASS
11N40SI SO	Ant1	2422	15.92	86.36	0.64	16.56	≤30.00	PASS
		2437	16.02	87.16	0.60	16.62	≤30.00	PASS
		2452	16.23	86.36	0.64	16.87	≤30.00	PASS

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



Test Graphs



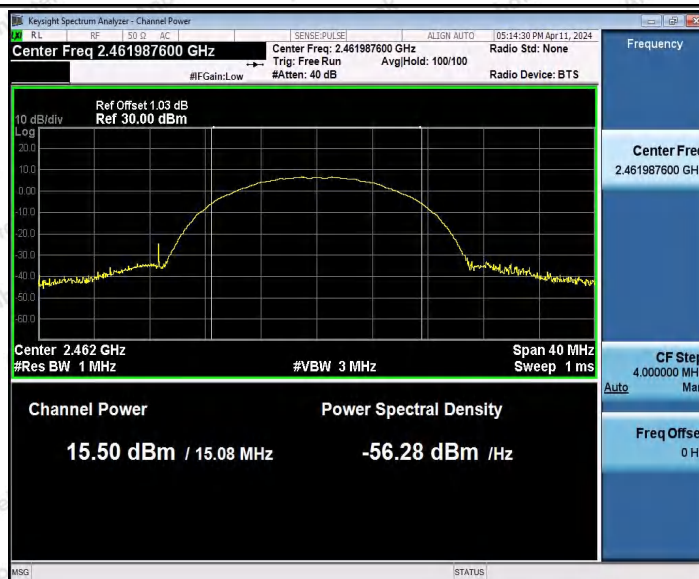
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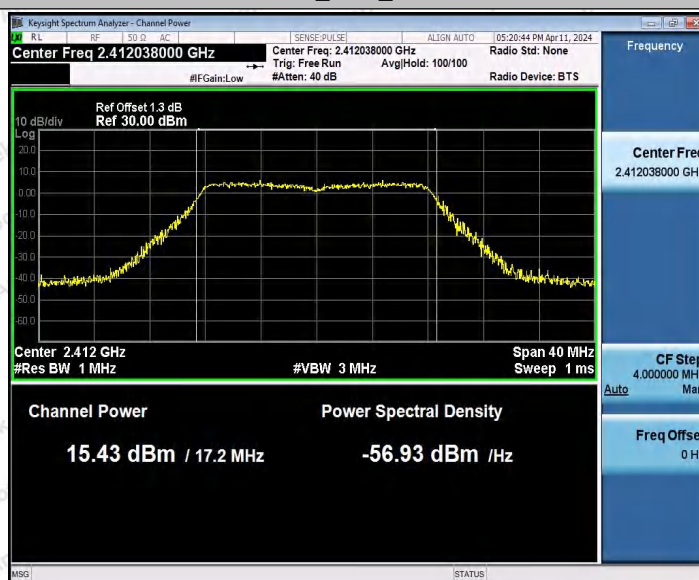


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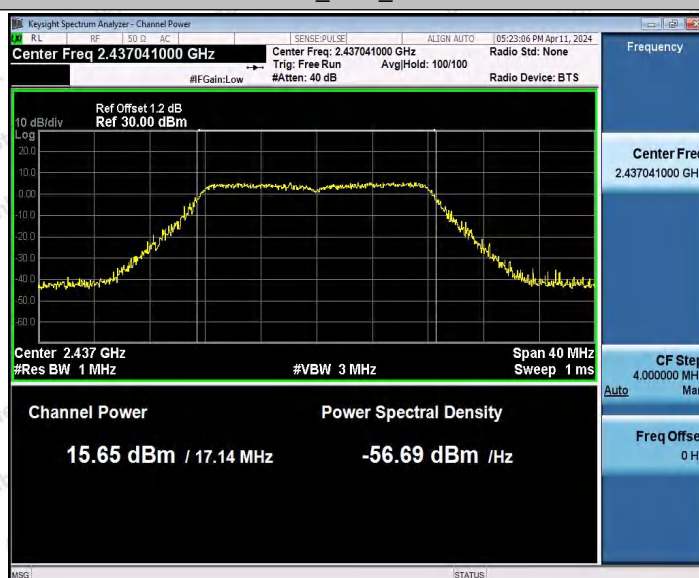




11G_Ant1_2412



11G_Ant1_2437



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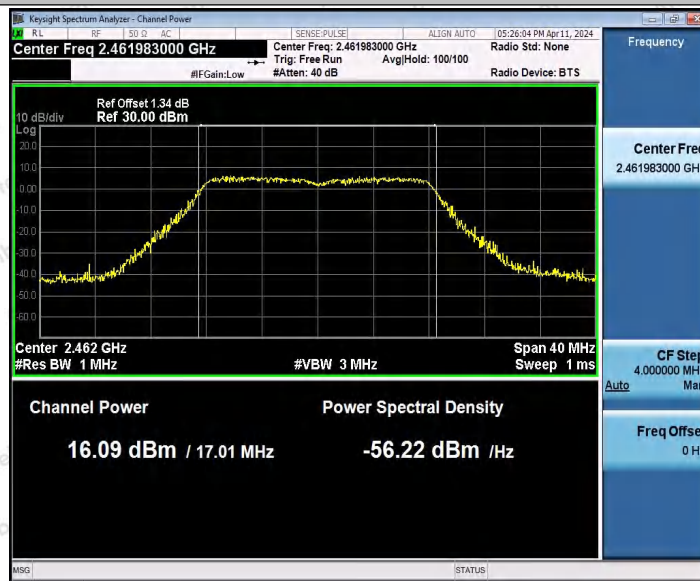
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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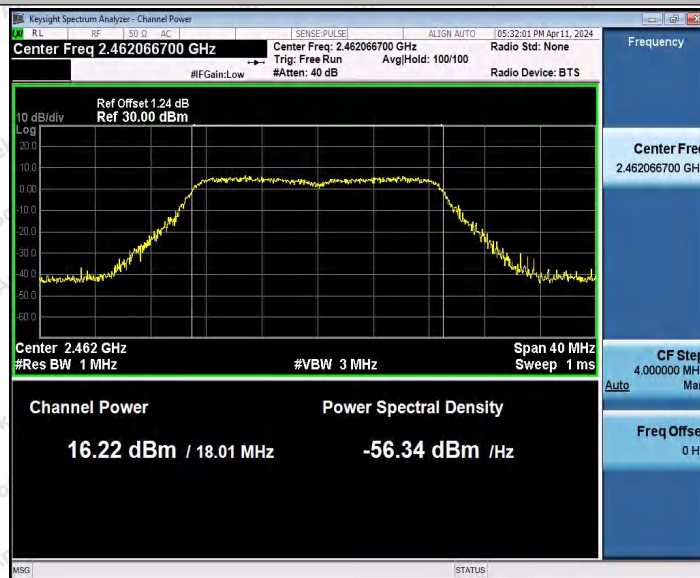


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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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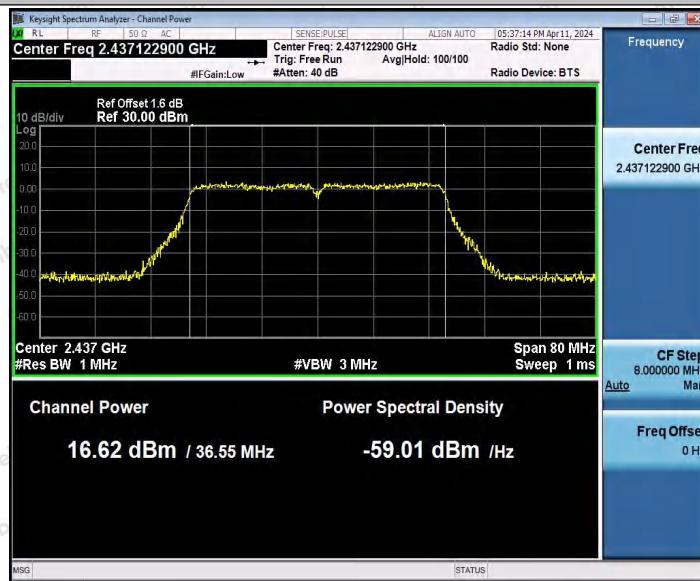
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11N40SISO_Ant1_2437



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	-9.23	-19.23	≤8.00	PASS
		2437	-8.51	-18.51	≤8.00	PASS
		2462	-8.29	-18.29	≤8.00	PASS
11G	Ant1	2412	-12.97	-22.97	≤8.00	PASS
		2437	-12.19	-22.19	≤8.00	PASS
		2462	-12.52	-22.52	≤8.00	PASS
11N20SISO	Ant1	2412	-13.54	-23.54	≤8.00	PASS
		2437	-13.04	-23.04	≤8.00	PASS
		2462	-11.77	-21.77	≤8.00	PASS
11N40SISO	Ant1	2422	-15.18	-25.18	≤8.00	PASS
		2437	-14.93	-24.93	≤8.00	PASS
		2452	-14.76	-24.76	≤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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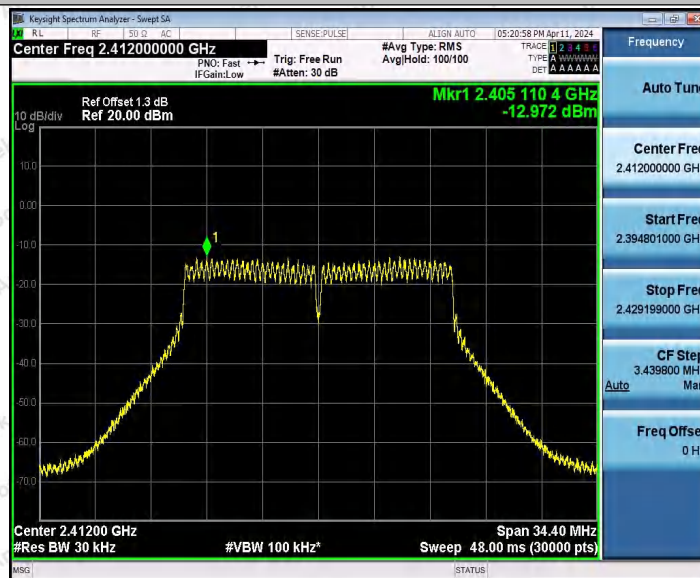


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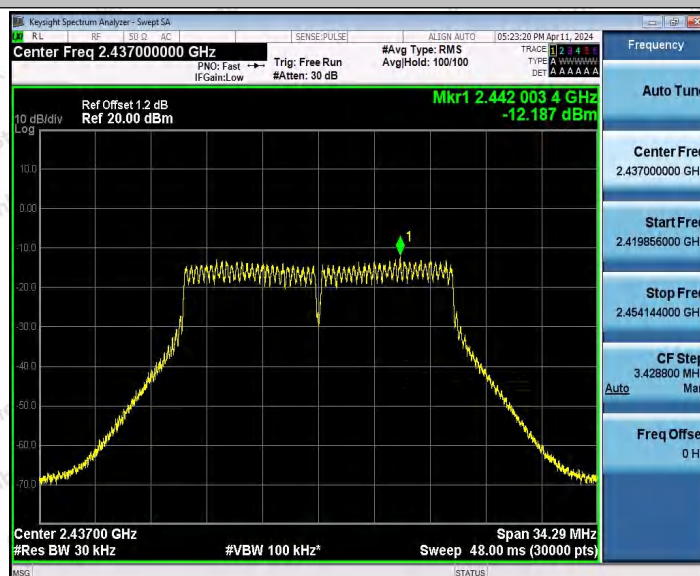




11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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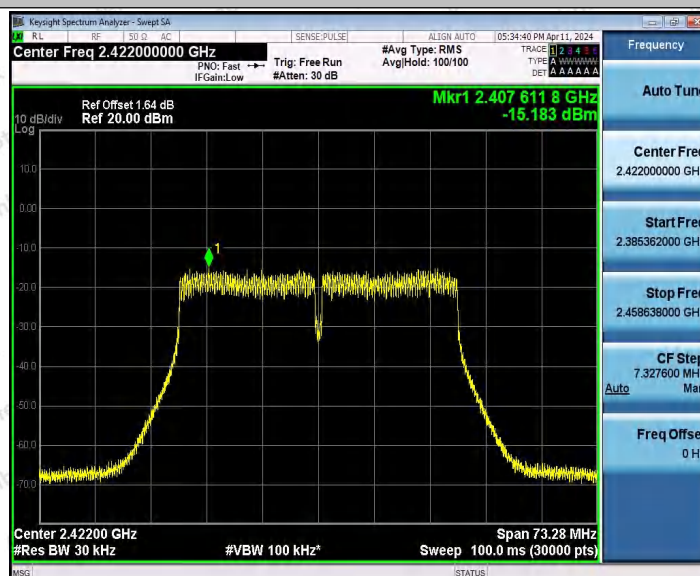




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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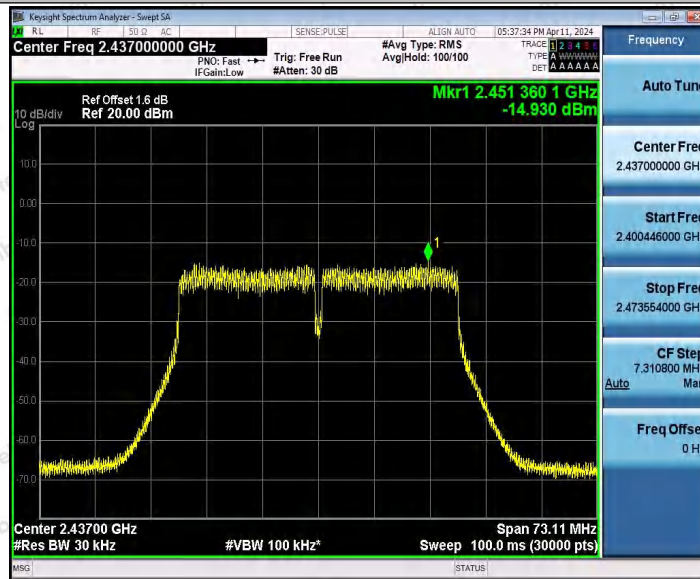
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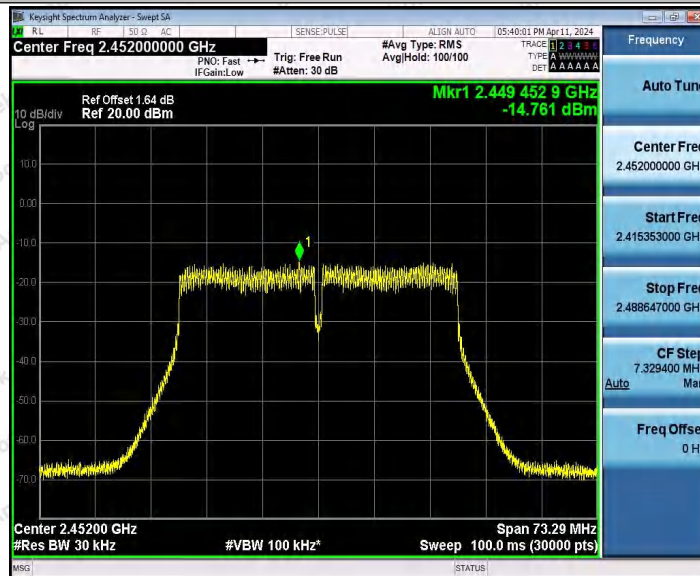
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11N40SISO_Ant1_2437



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	3.92	-39.93	≤-26.08	PASS
		High	2462	4.62	-56.18	≤-25.38	PASS
11G	Ant1	Low	2412	-0.60	-37.18	≤-30.6	PASS
		High	2462	0.14	-54.5	≤-29.87	PASS
11N20SISO	Ant1	Low	2412	-0.57	-36.62	≤-30.57	PASS
		High	2462	0.11	-53.66	≤-29.89	PASS
11N40SISO	Ant1	Low	2422	-2.91	-38.86	≤-32.91	PASS
		High	2452	-2.47	-50.93	≤-32.47	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

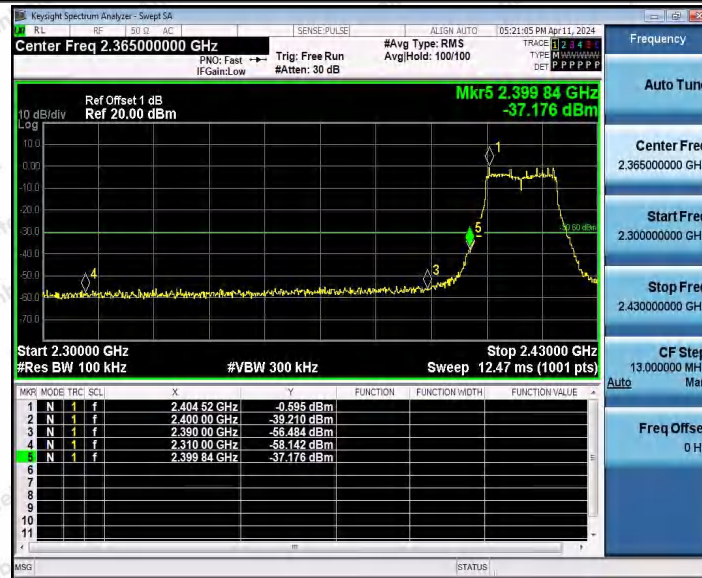
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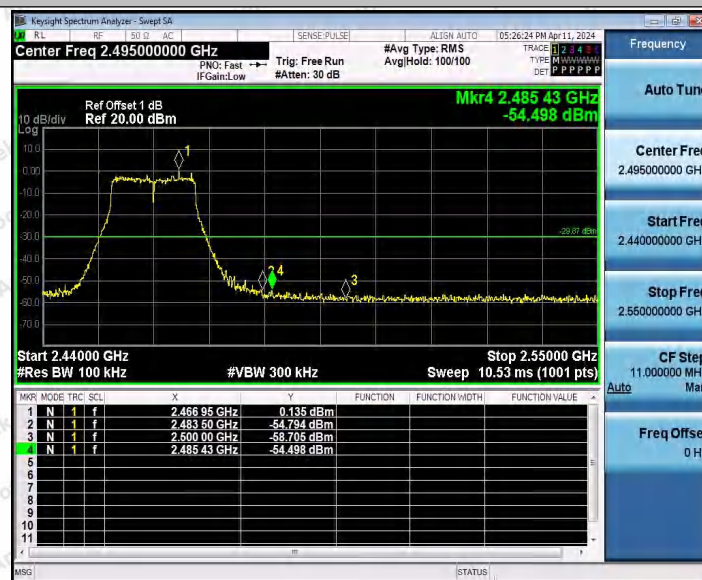


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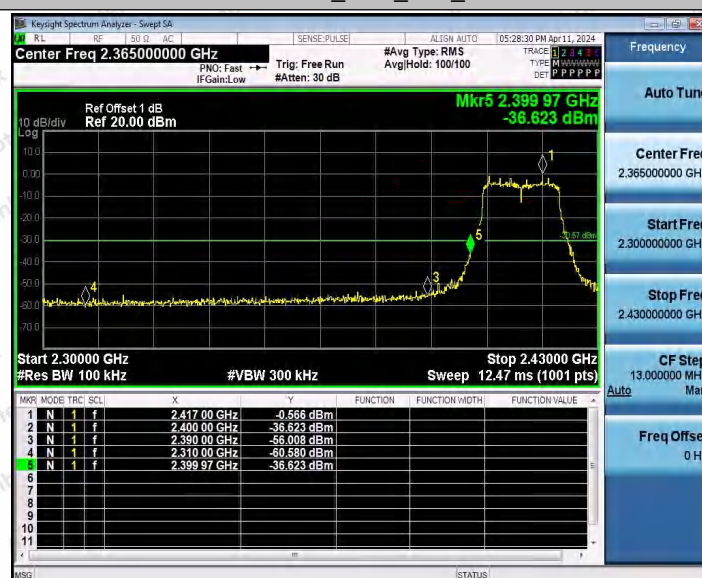




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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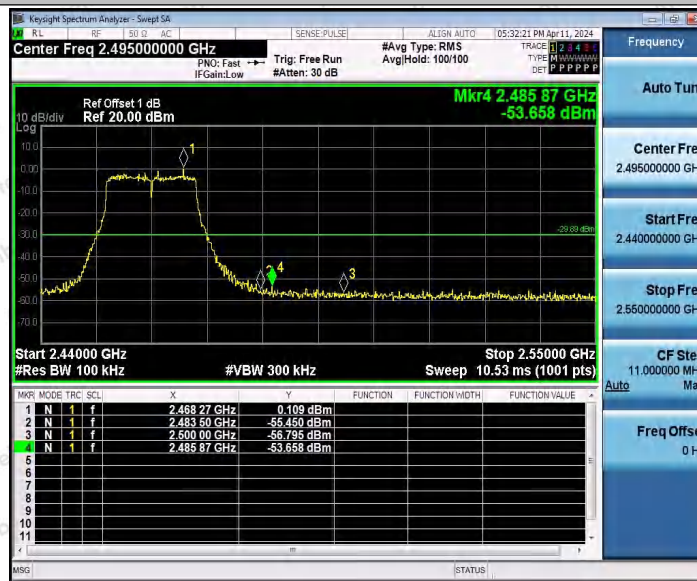
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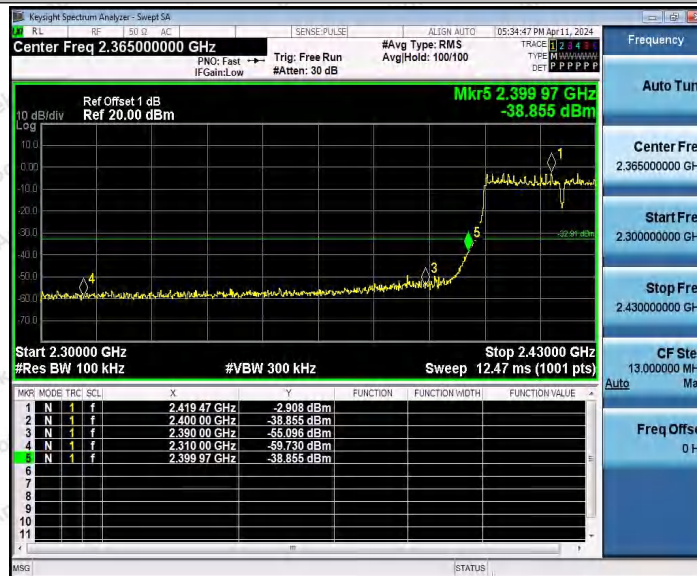
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

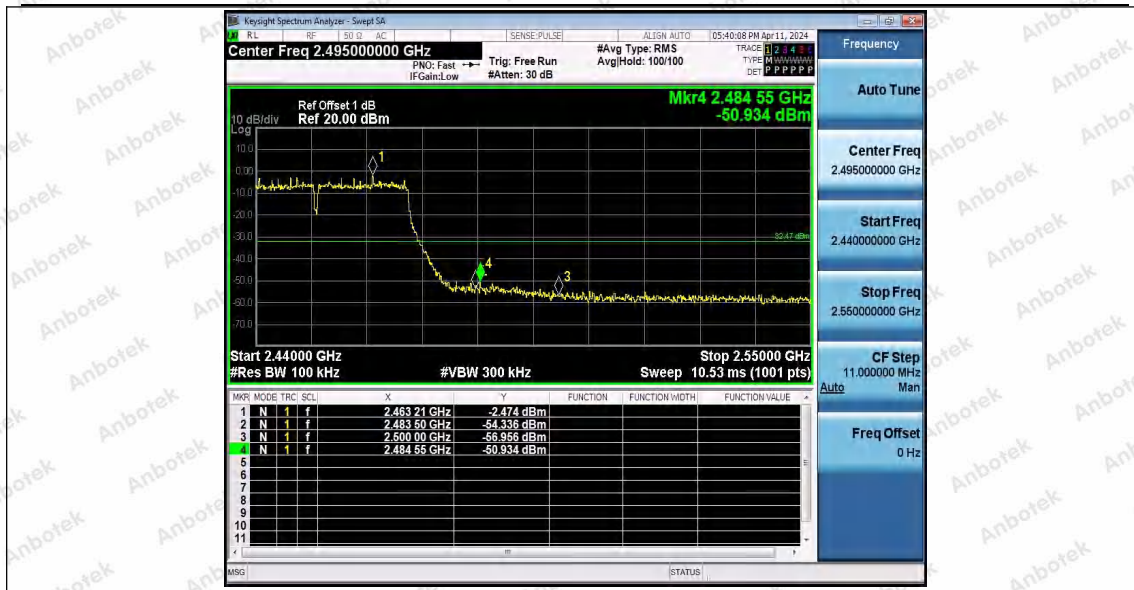
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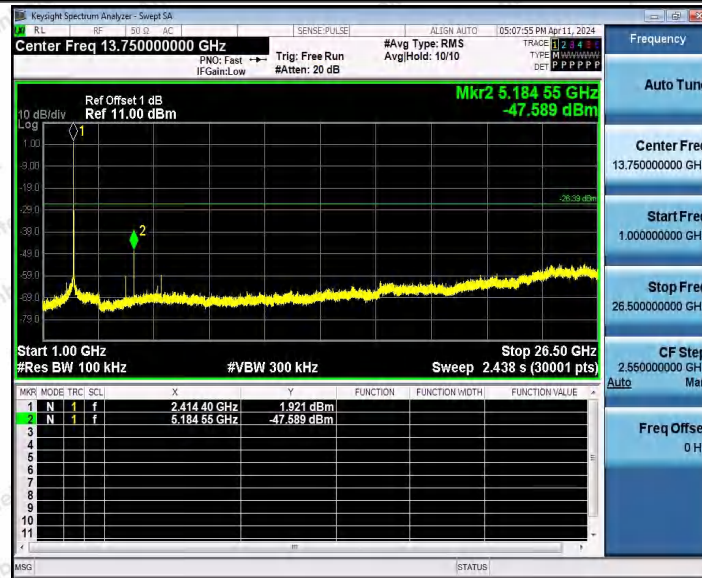
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.61	3.61	---	PASS
			30~1000	3.61	-68.64	≤-26.39	PASS
			1000~26500	3.61	-47.59	≤-26.39	PASS
		2437	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-69.06	≤-26.18	PASS
			1000~26500	3.82	-54.09	≤-26.18	PASS
		2462	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-67.91	≤-26.44	PASS
			1000~26500	3.56	-54.16	≤-26.44	PASS
11G	Ant1	2412	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-68.96	≤-30.55	PASS
			1000~26500	-0.55	-34.01	≤-30.55	PASS
		2437	Reference	-3.46	-3.46	---	PASS
			30~1000	-3.46	-68.86	≤-33.46	PASS
			1000~26500	-3.46	-50.37	≤-33.46	PASS
		2462	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-68.2	≤-30.36	PASS
			1000~26500	-0.36	-31.47	≤-30.36	PASS
11N20SISO	Ant1	2412	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-68.93	≤-33.8	PASS
			1000~26500	-3.80	-41.19	≤-33.8	PASS
		2437	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-68.35	≤-30.65	PASS
			1000~26500	-0.65	-44.56	≤-30.65	PASS
		2462	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-69.28	≤-32.78	PASS
			1000~26500	-2.78	-46.57	≤-32.78	PASS
11N40SISO	Ant1	2422	Reference	-3.29	-3.29	---	PASS
			30~1000	-3.29	-68.72	≤-33.29	PASS
			1000~26500	-3.29	-45.64	≤-33.29	PASS
		2437	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-67.79	≤-33.18	PASS
			1000~26500	-3.18	-53.17	≤-33.18	PASS
		2452	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-68.06	≤-34.69	PASS
			1000~26500	-4.69	-39.16	≤-34.69	PASS



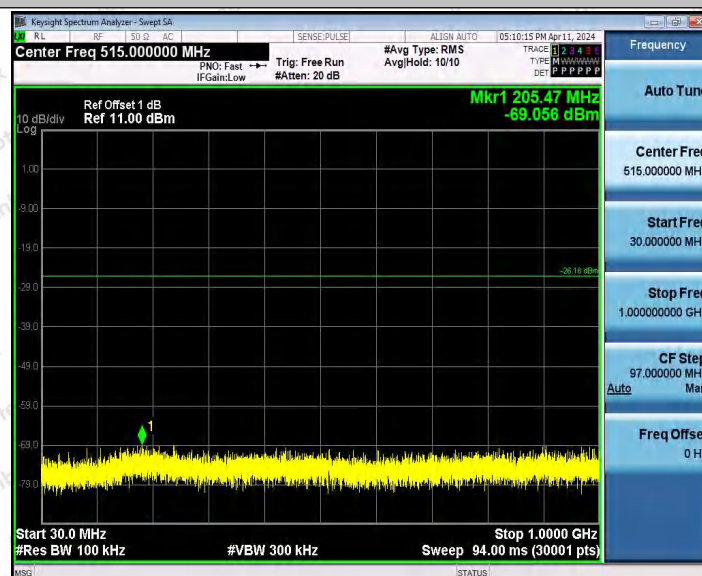




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

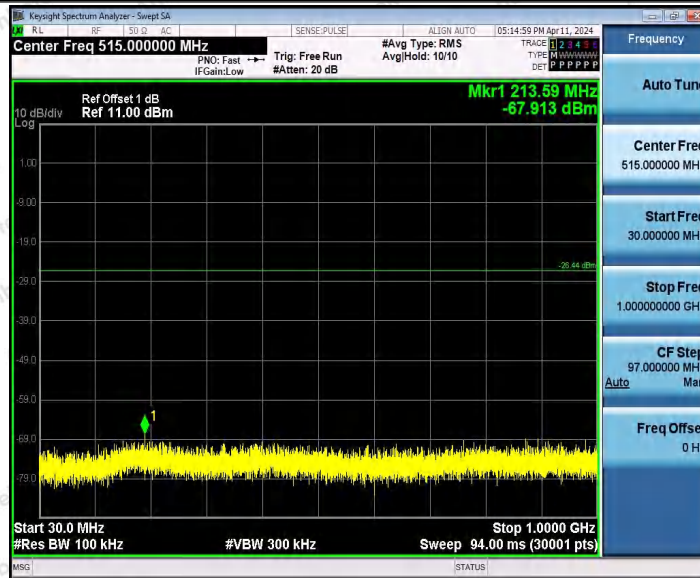
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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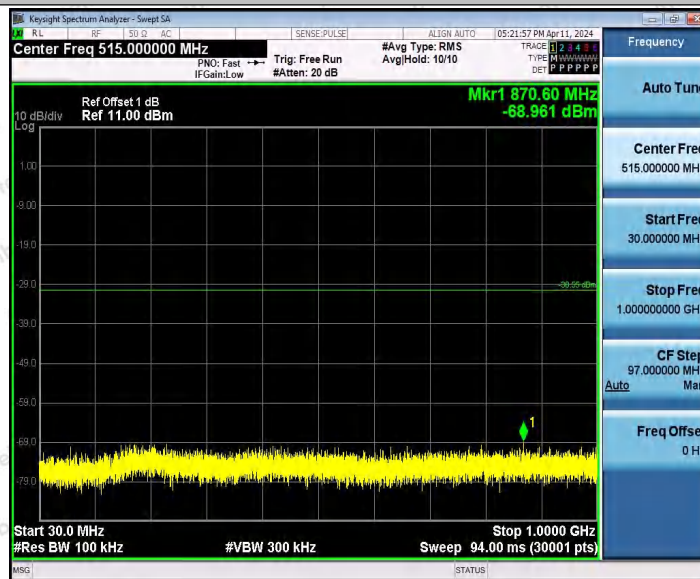
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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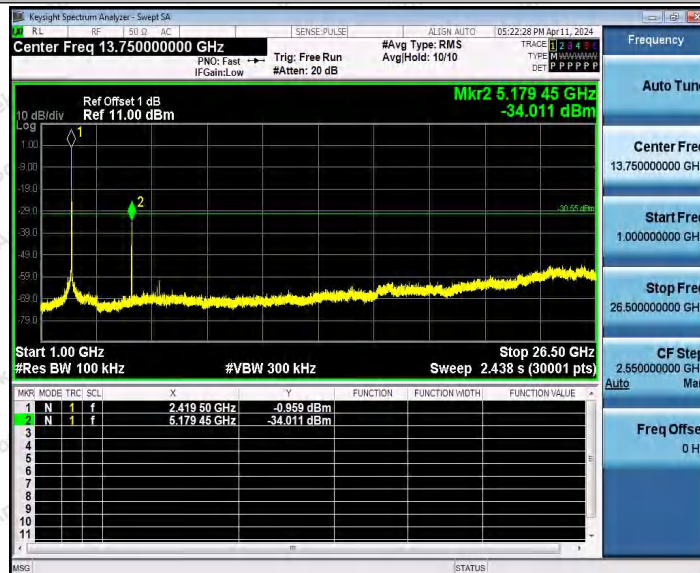
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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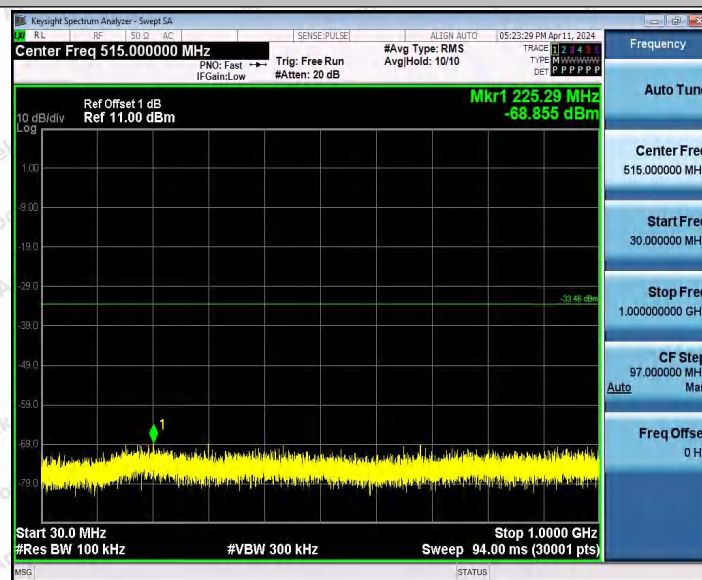


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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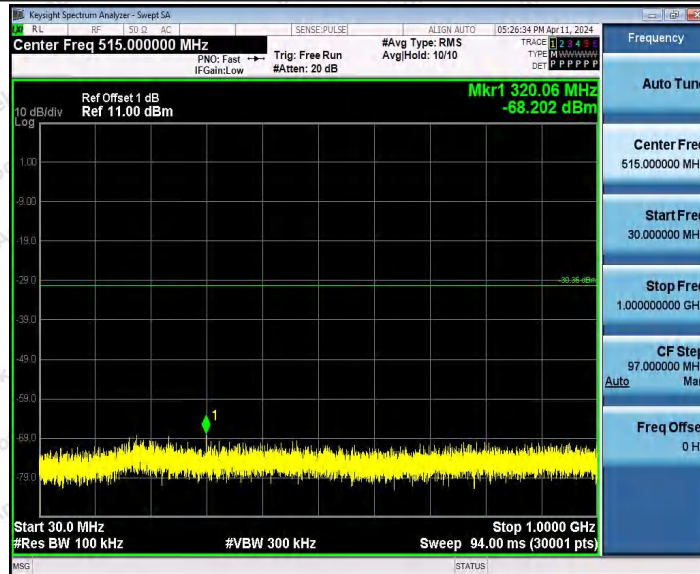
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

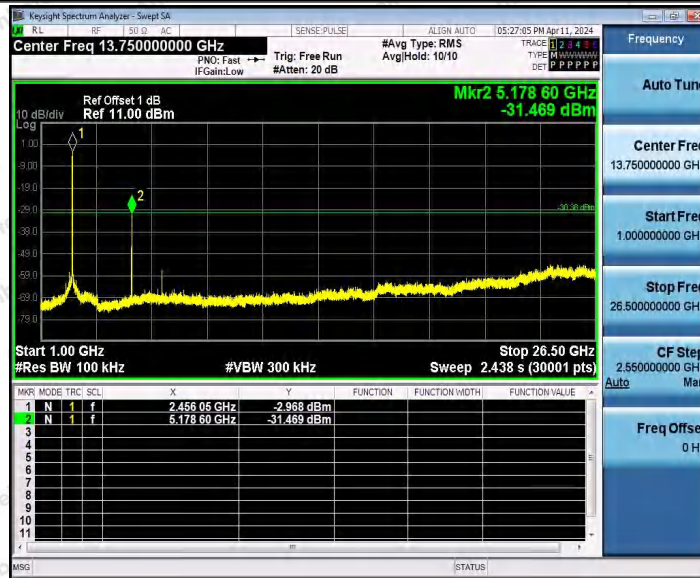
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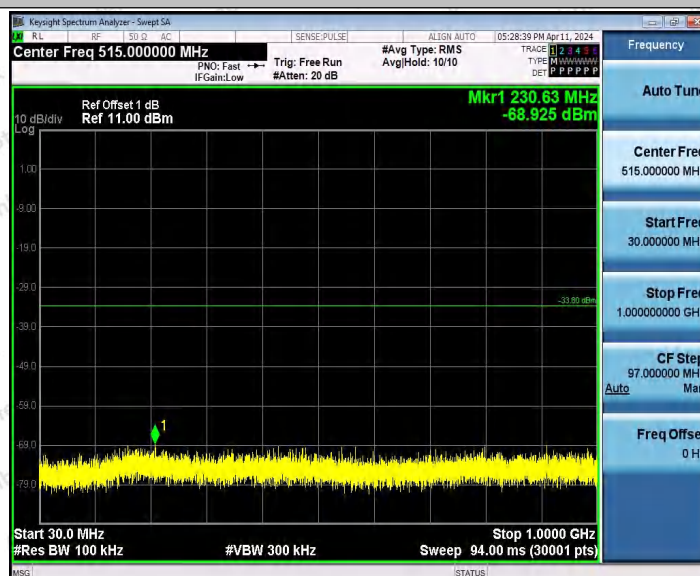




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



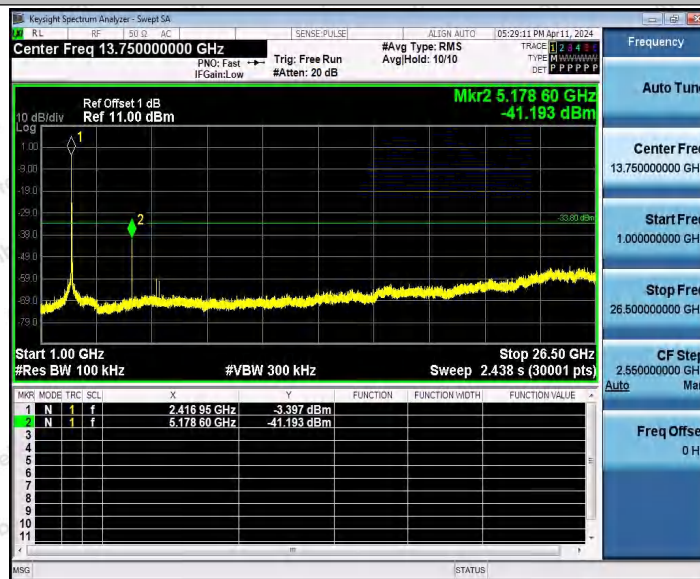
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

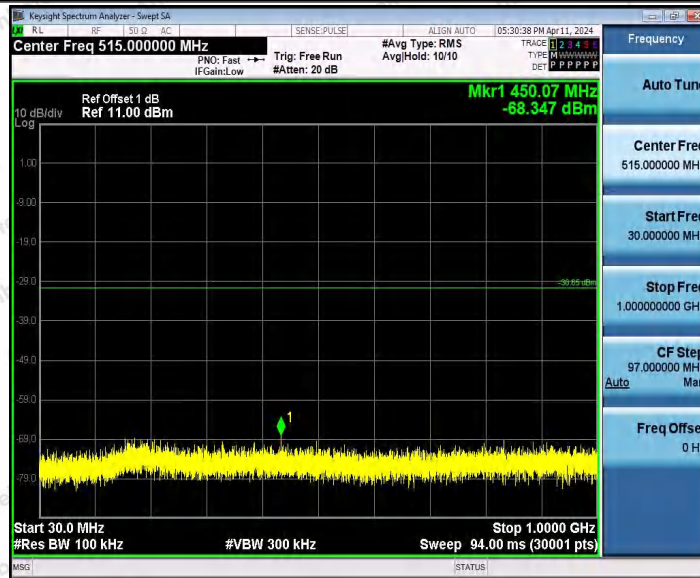
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

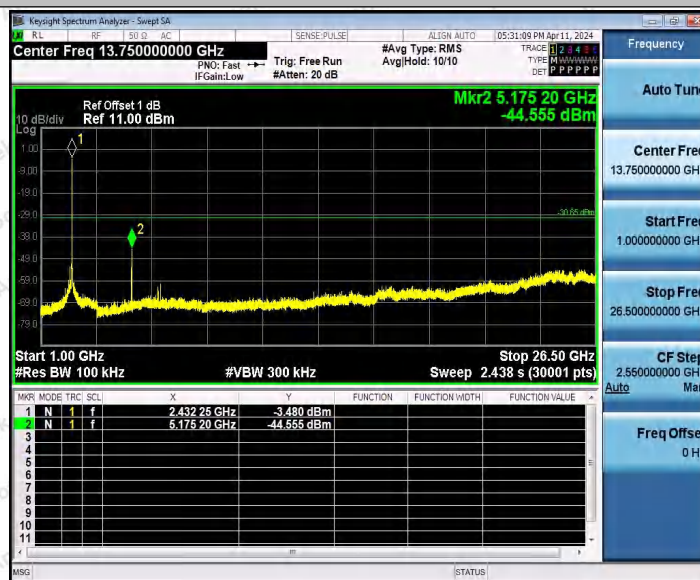


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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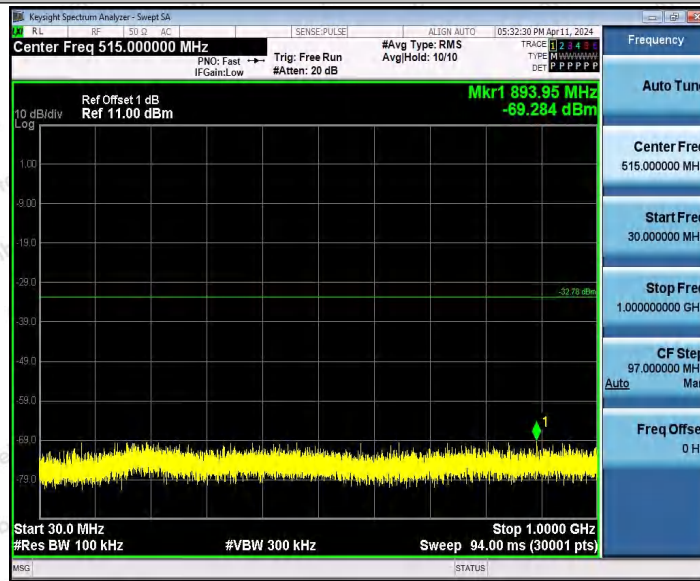
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



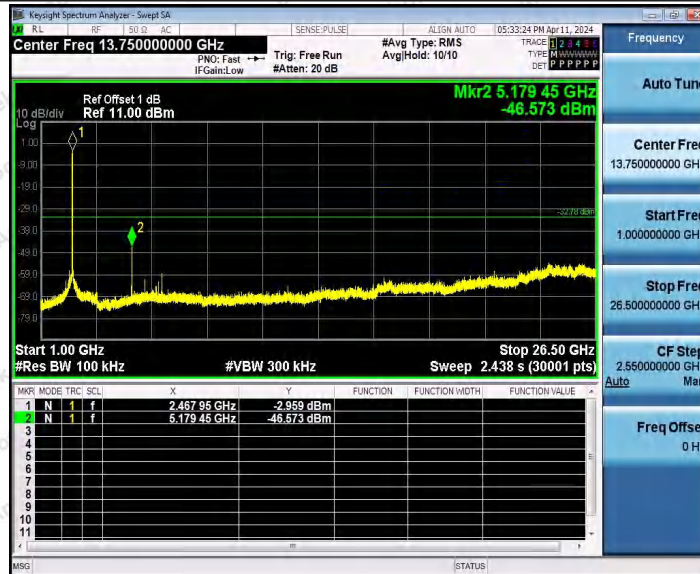
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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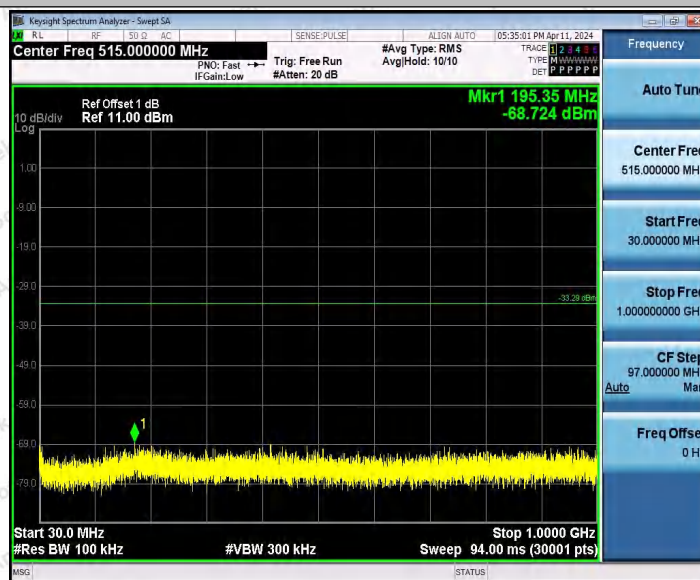


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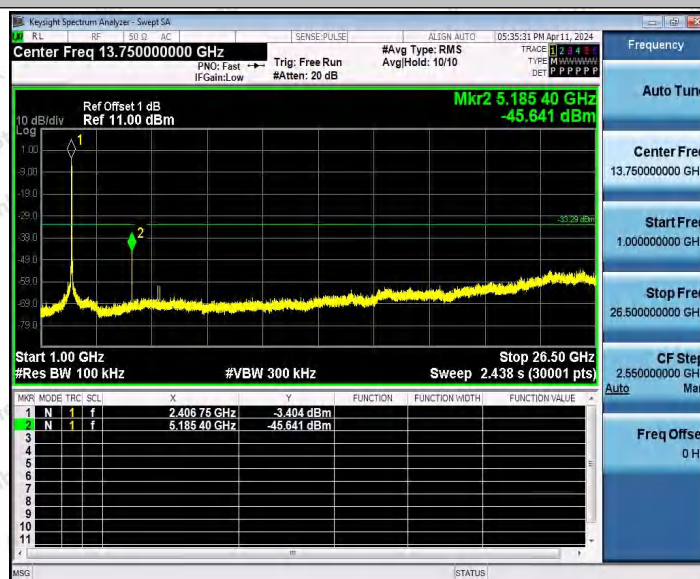




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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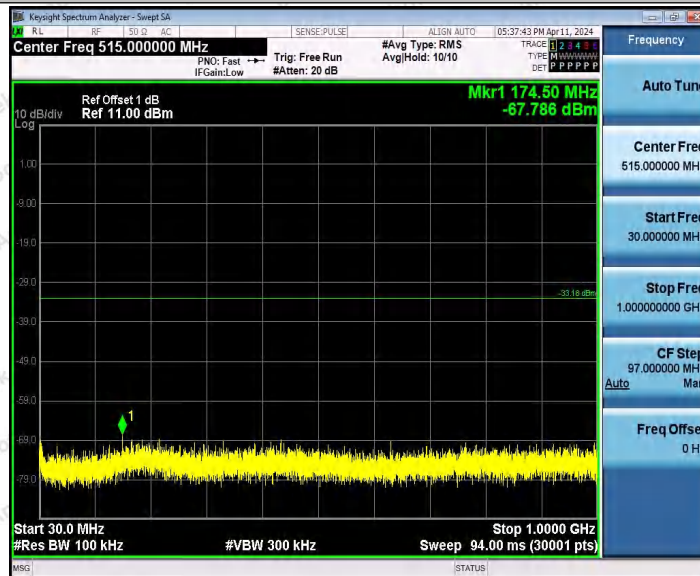
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11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500

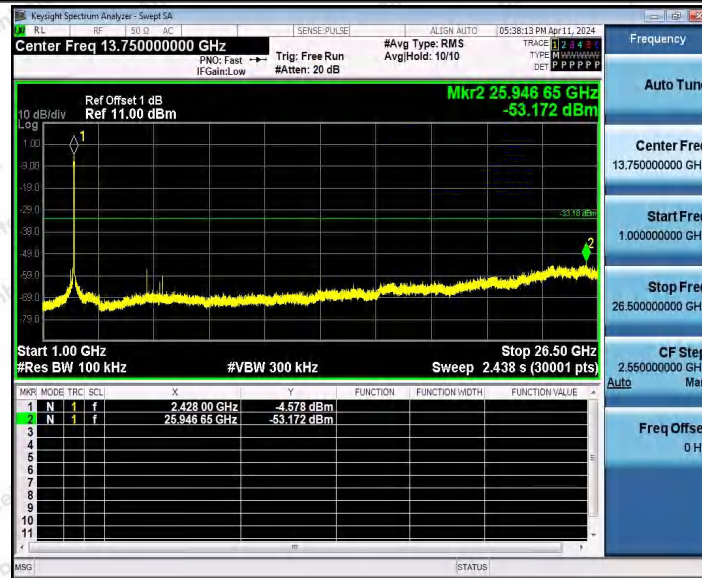
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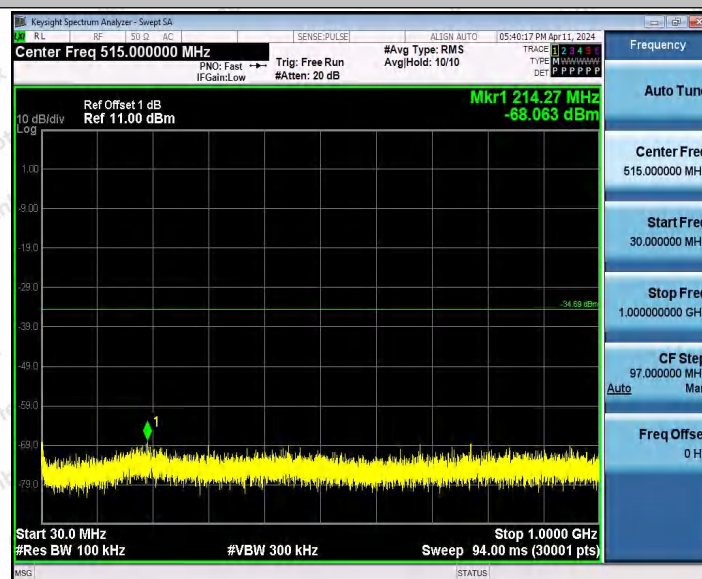




11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



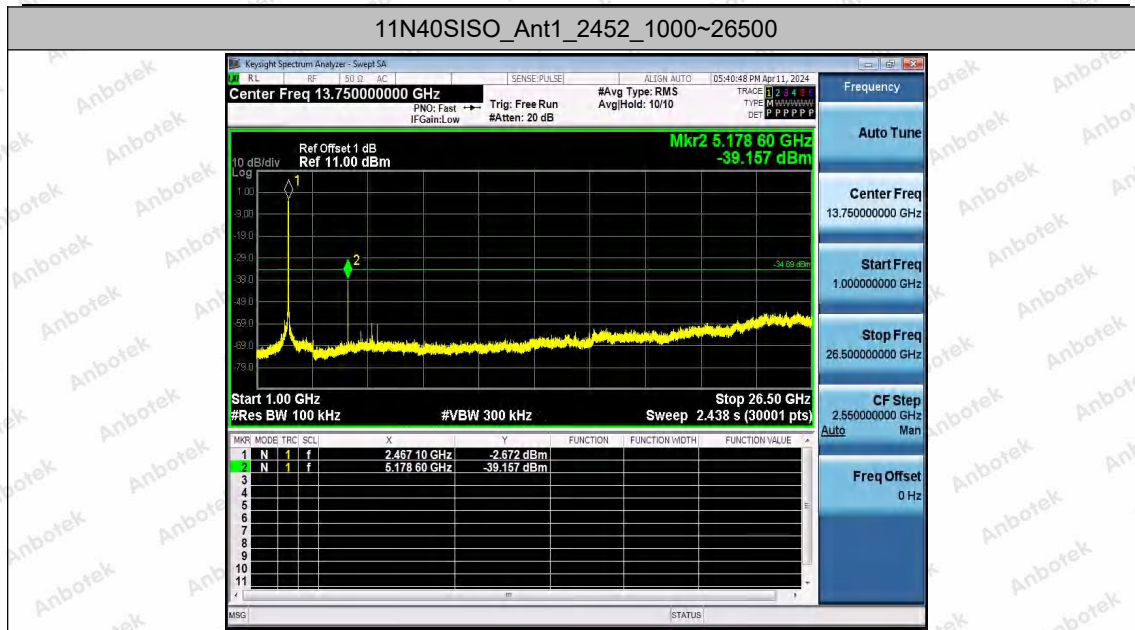
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Appendix G: Duty Cycle

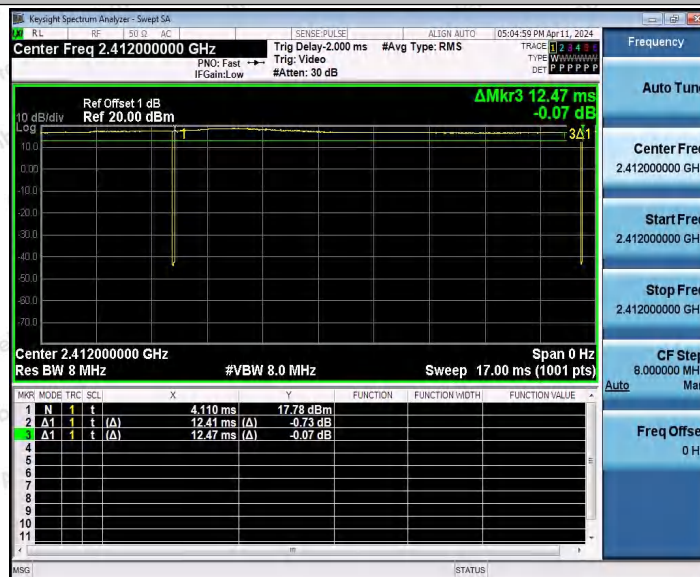
Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.41	12.47	99.52	0.02
		2437	12.42	12.54	99.04	0.04
		2462	12.42	12.51	99.28	0.03
11G	Ant1	2412	2.07	2.22	93.24	0.30
		2437	2.07	2.17	95.39	0.20
		2462	2.06	2.23	92.38	0.34
11N20SISO	Ant1	2412	1.92	2.06	93.20	0.31
		2437	1.92	2.06	93.20	0.31
		2462	1.92	2.03	94.58	0.24
11N40SISO	Ant1	2422	0.95	1.10	86.36	0.64
		2437	0.95	1.09	87.16	0.60
		2452	0.95	1.10	86.36	0.64

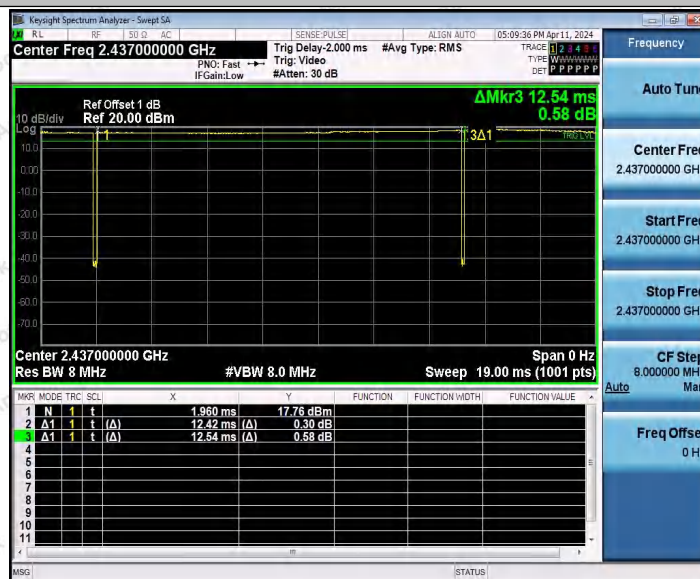


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

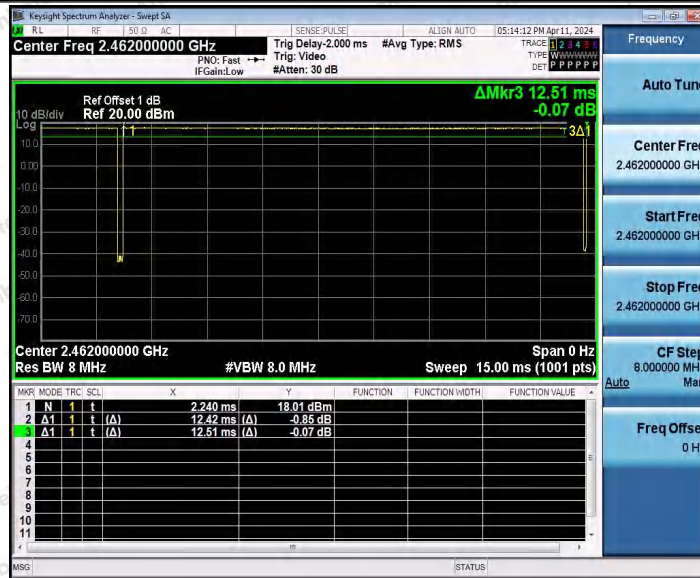
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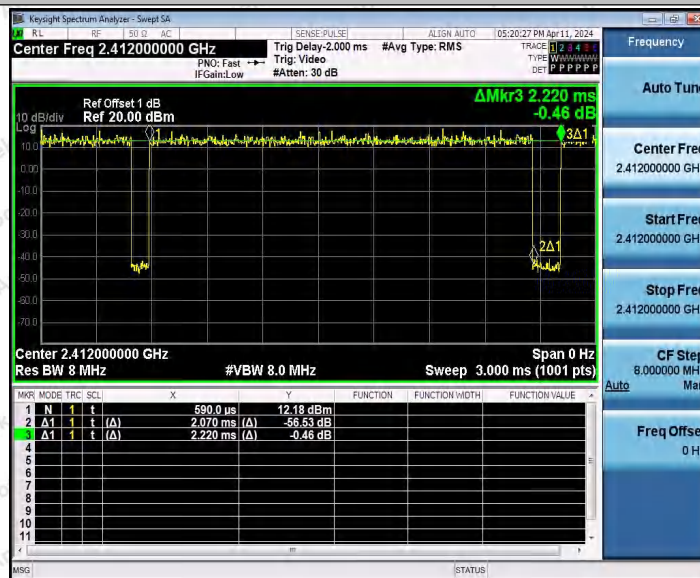


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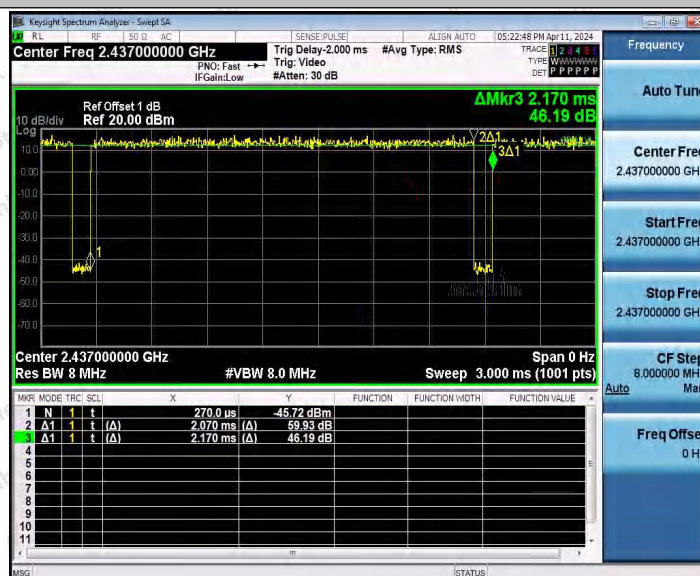




11G_Ant1_2412



11G_Ant1_2437



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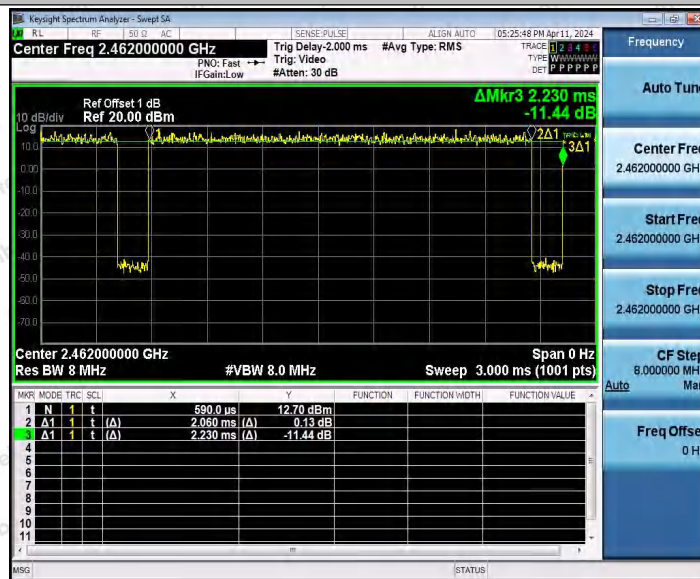
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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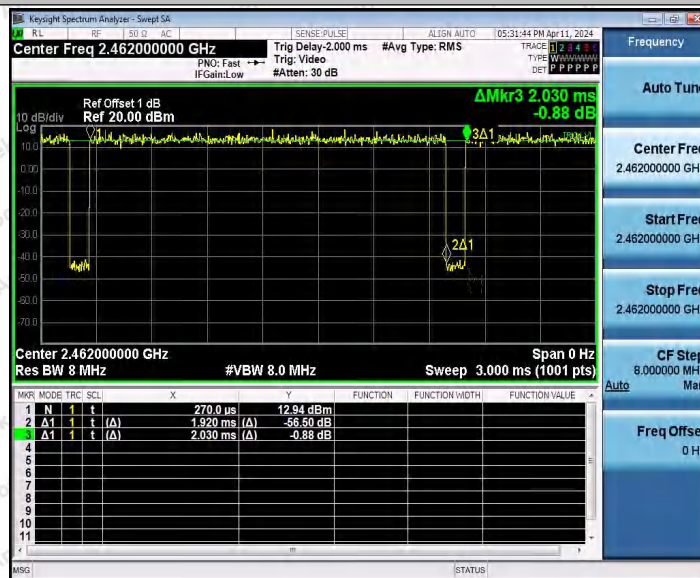
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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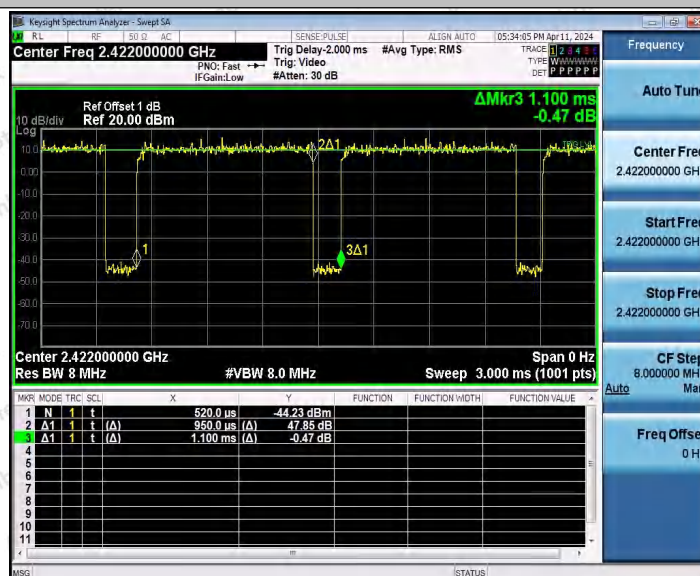




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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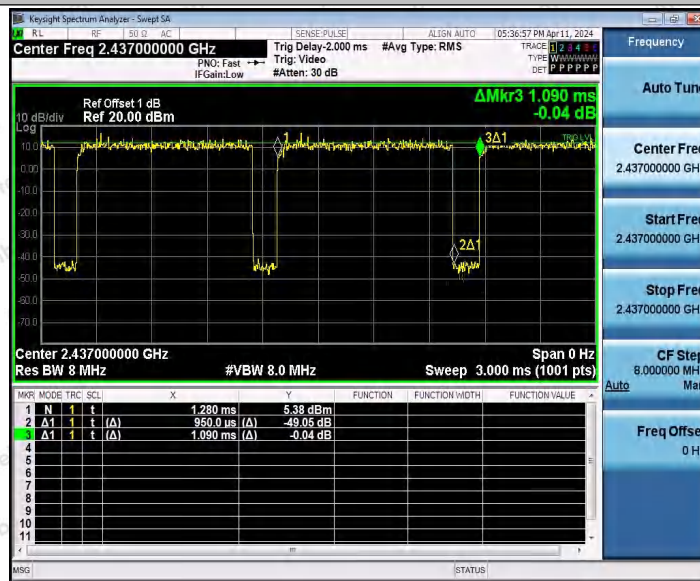
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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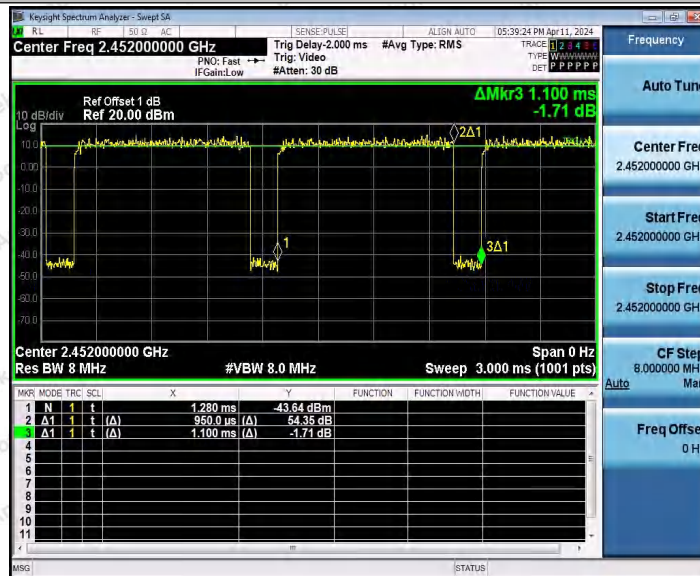
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



---END---

