

Appendix Test Data

Report No.:	18220WC30275502	Test Sample No.:	1-2-2
Start Test Date:	2024.1.27	Finish Test Date:	2024.1.27
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	25.3°C	Relative Humidity:	45%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	9.480	2407.040	2416.520	0.5	PASS
		2437	10.000	2432.040	2442.040	0.5	PASS
		2462	9.080	2457.000	2466.080	0.5	PASS
802.11g	Ant1	2412	15.440	2404.120	2419.560	0.5	PASS
		2437	14.400	2429.760	2444.160	0.5	PASS
		2462	14.640	2454.520	2469.160	0.5	PASS
802.11n(HT20) SISO	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
		2437	15.000	2429.480	2444.480	0.5	PASS
		2462	14.000	2455.520	2469.520	0.5	PASS

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Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

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802.11g_Ant1_2412



802.11g_Ant1_2437

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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412

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802.11n(HT20) SISO_Ant1_2437



802.11n(HT20) SISO_Ant1_2462

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Appendix B: Maximum conducted output power

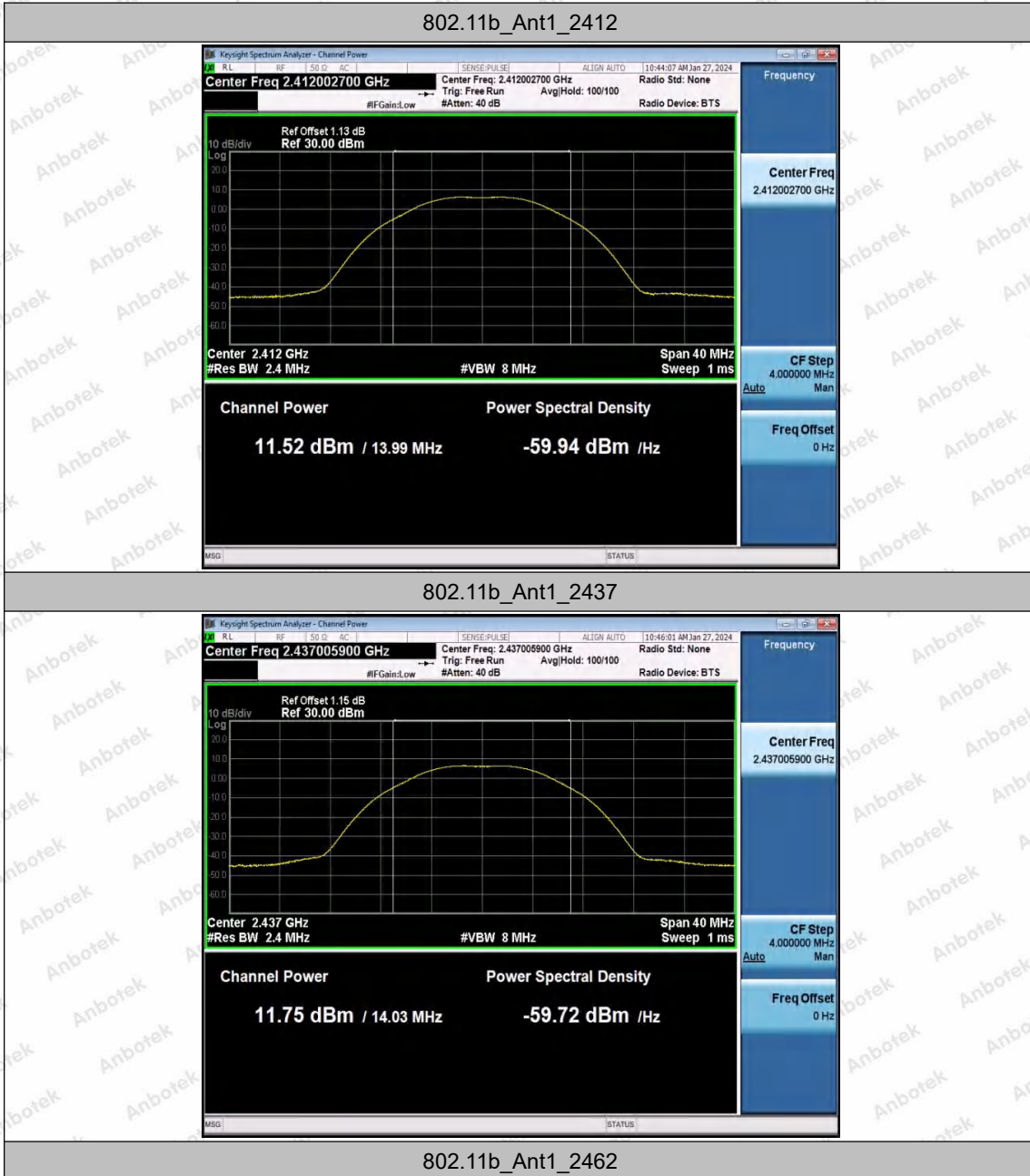
Test Result

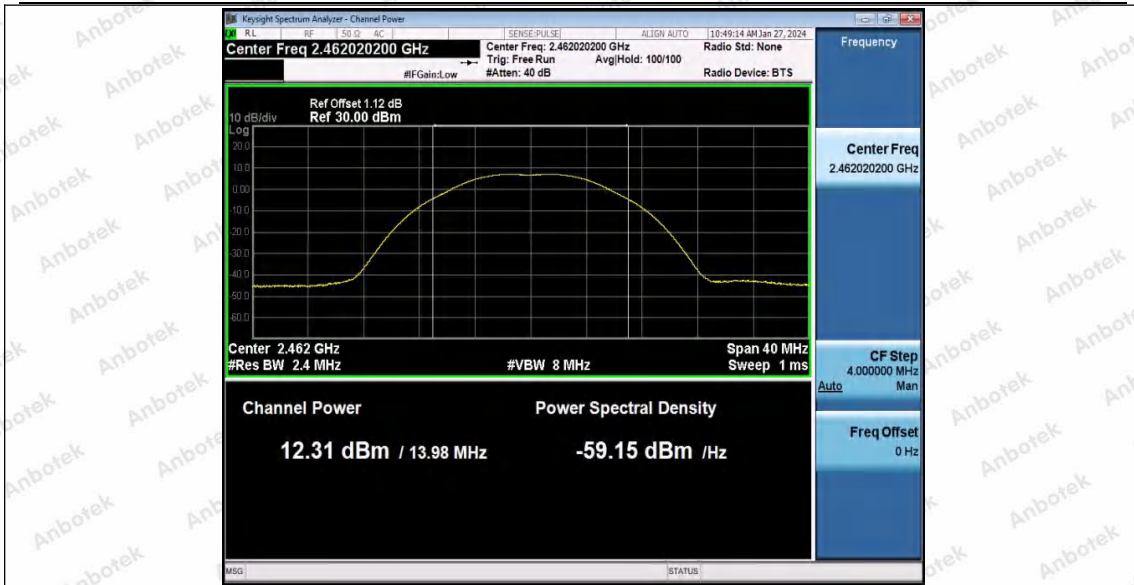
TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
802.11b	Ant1	2412	11.52	≤30.00
		2437	11.75	≤30.00
		2462	12.31	≤30.00
802.11g	Ant1	2412	12.13	≤30.00
		2437	11.46	≤30.00
		2462	12.34	≤30.00
802.11n(HT20) SISO	Ant1	2412	13.97	≤30.00
		2437	13.03	≤30.00
		2462	12.03	≤30.00

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

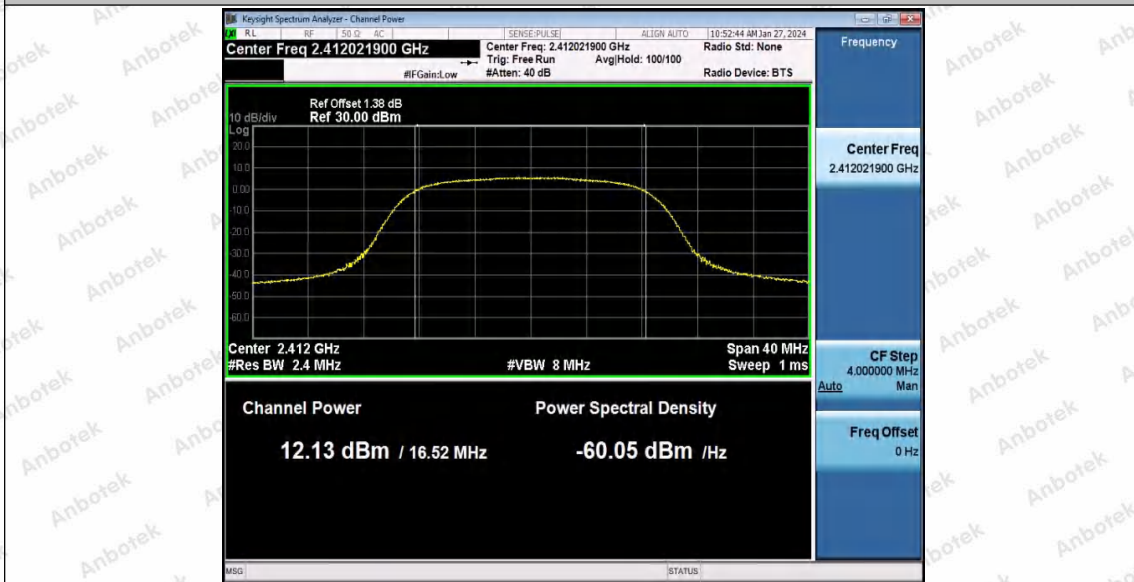


Test Graphs





802.11g_Ant1_2412



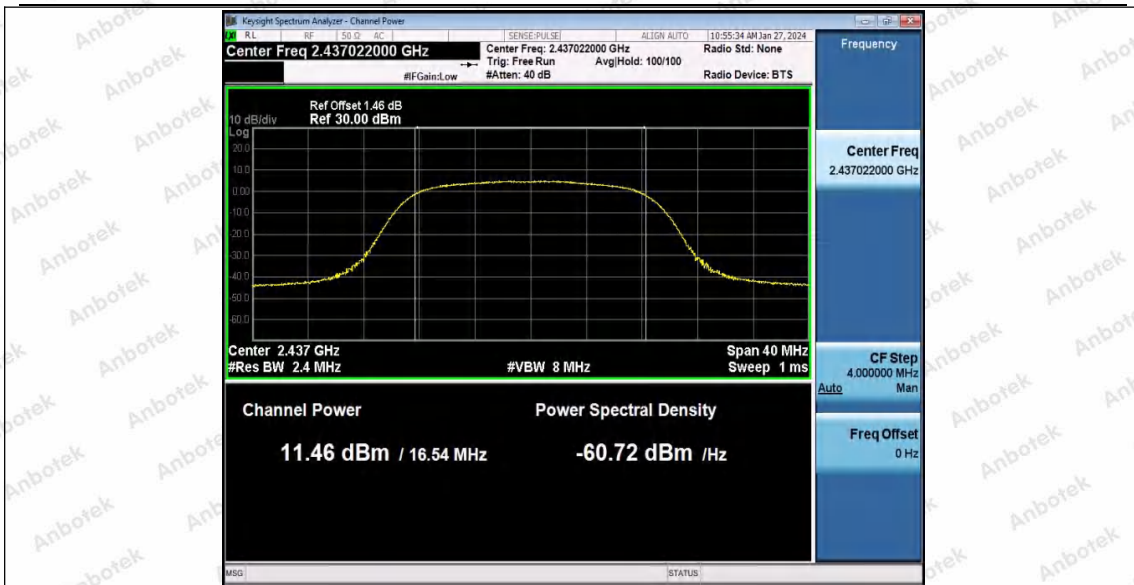
802.11g_Ant1_2437

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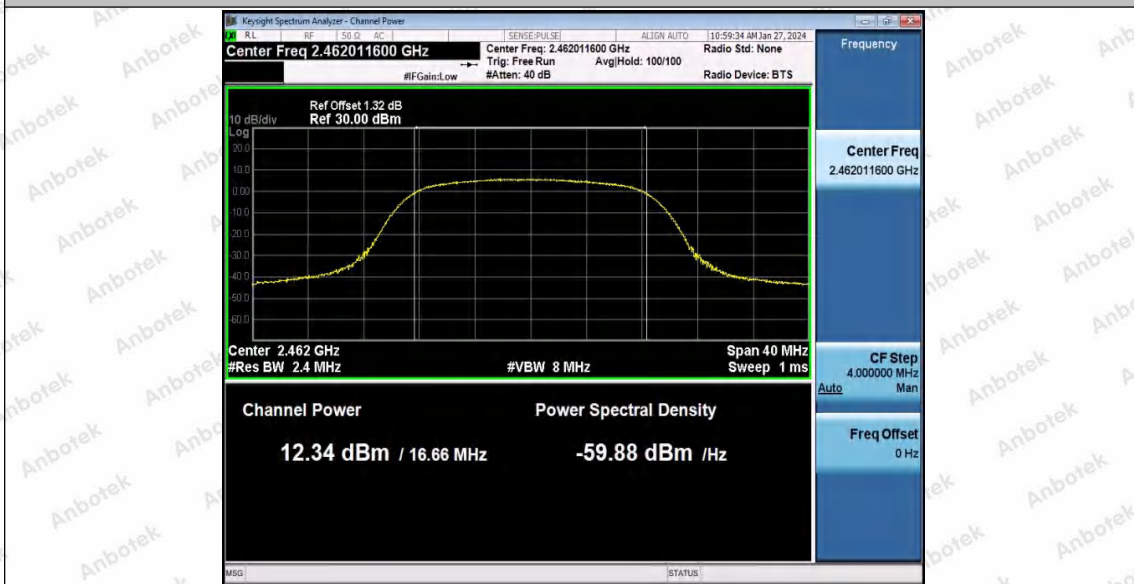
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11g_Ant1_2462

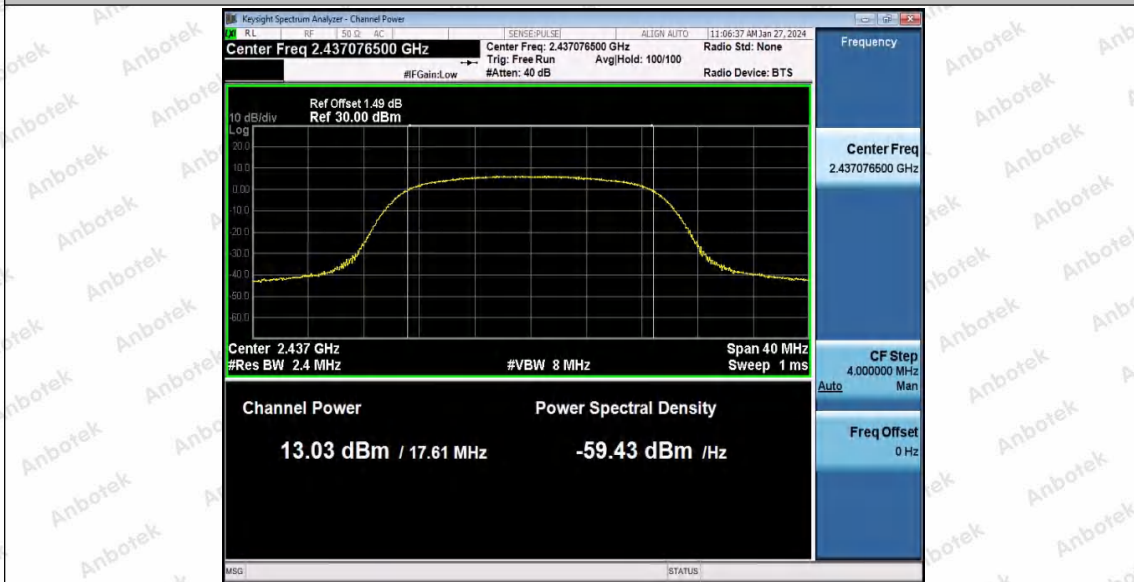


802.11n(HT20) SISO_Ant1_2412



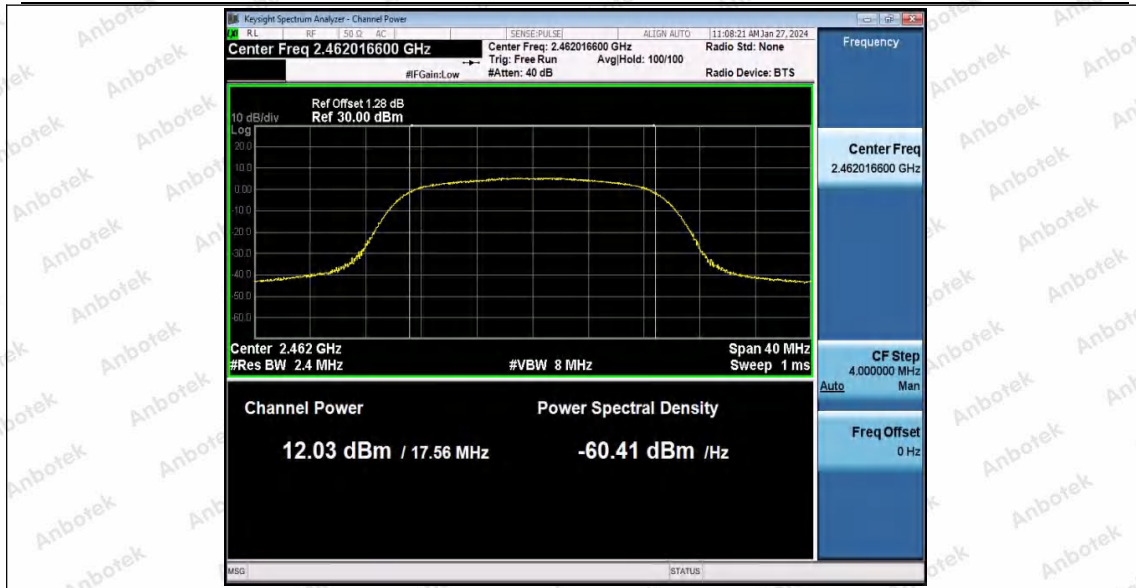


802.11n(HT20) SISO_Ant1_2437



802.11n(HT20) SISO_Ant1_2462





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Appendix C: Power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
802.11b	Ant1	2412	-10.59	-20.59	≤8.00	PASS
		2437	-10.13	-20.13	≤8.00	PASS
		2462	-9.91	-19.91	≤8.00	PASS
802.11g	Ant1	2412	-10.66	-20.66	≤8.00	PASS
		2437	-11.13	-21.13	≤8.00	PASS
		2462	-10.59	-20.59	≤8.00	PASS
802.11n(HT20) SISO	Ant1	2412	-9.09	-19.09	≤8.00	PASS
		2437	-9.92	-19.92	≤8.00	PASS
		2462	-11.04	-21.04	≤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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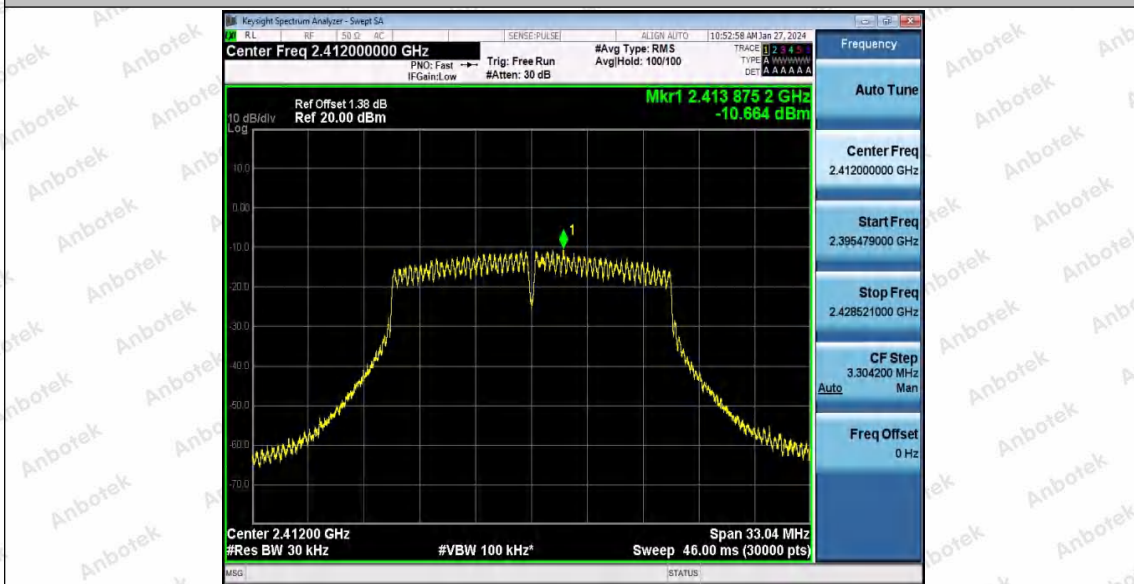
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802.11g_Ant1_2412



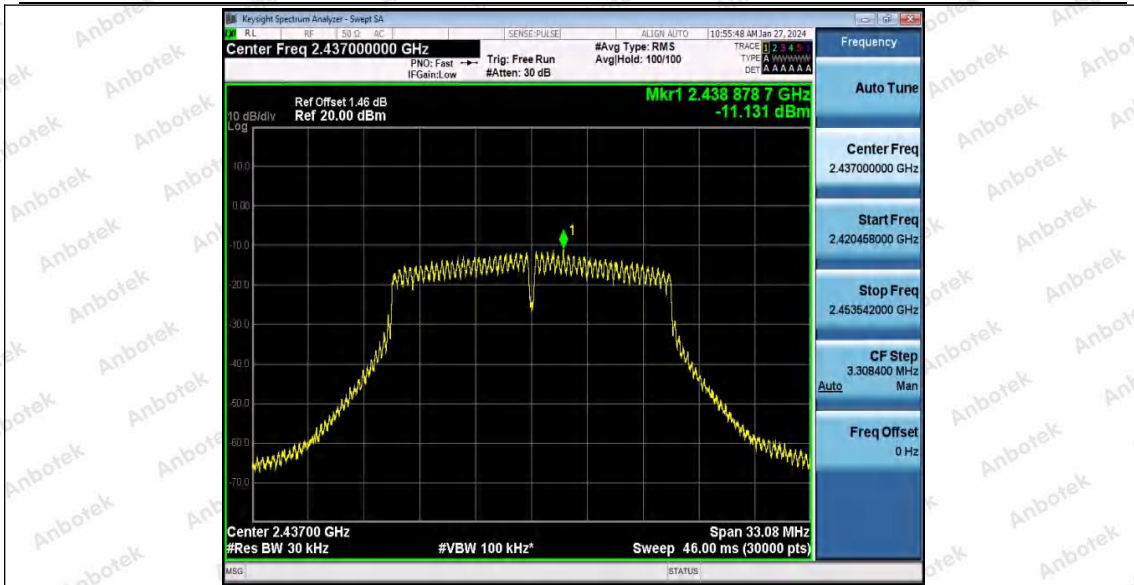
802.11g_Ant1_2437

Shenzhen Anbotek Compliance Laboratory Limited

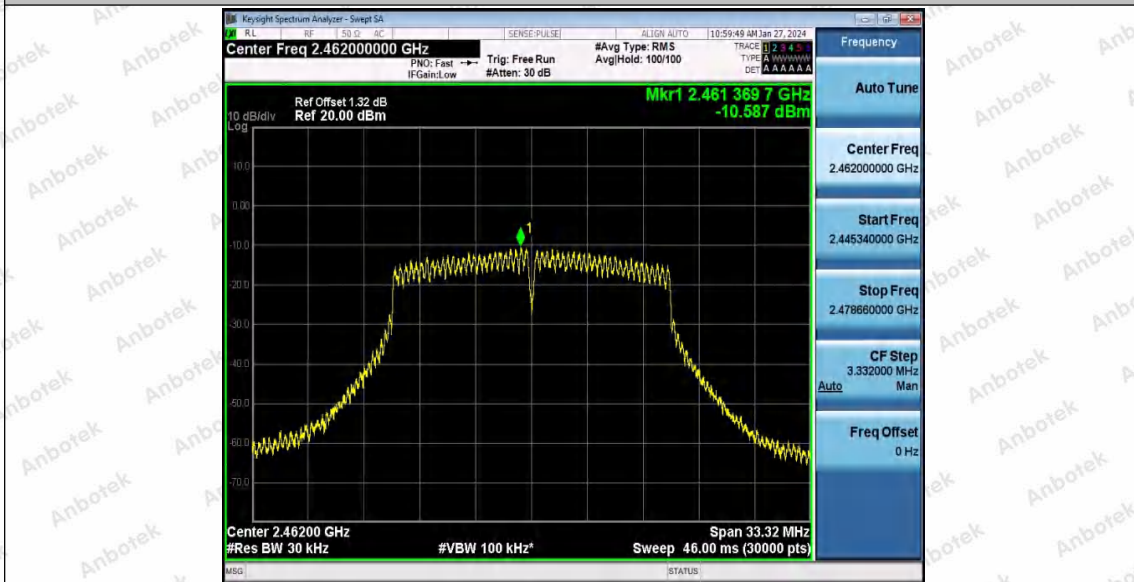
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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412

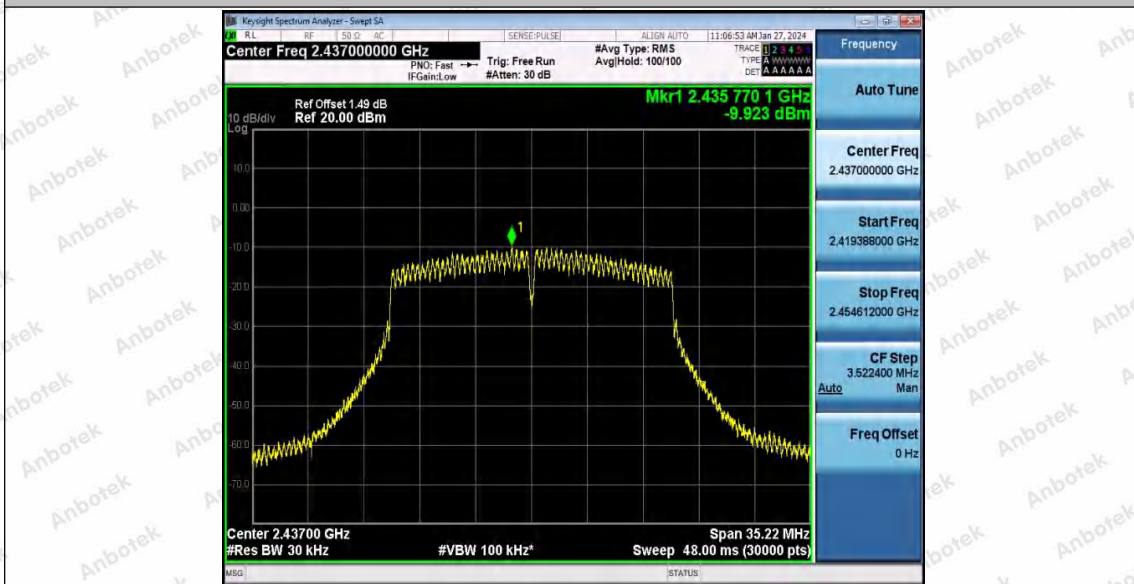
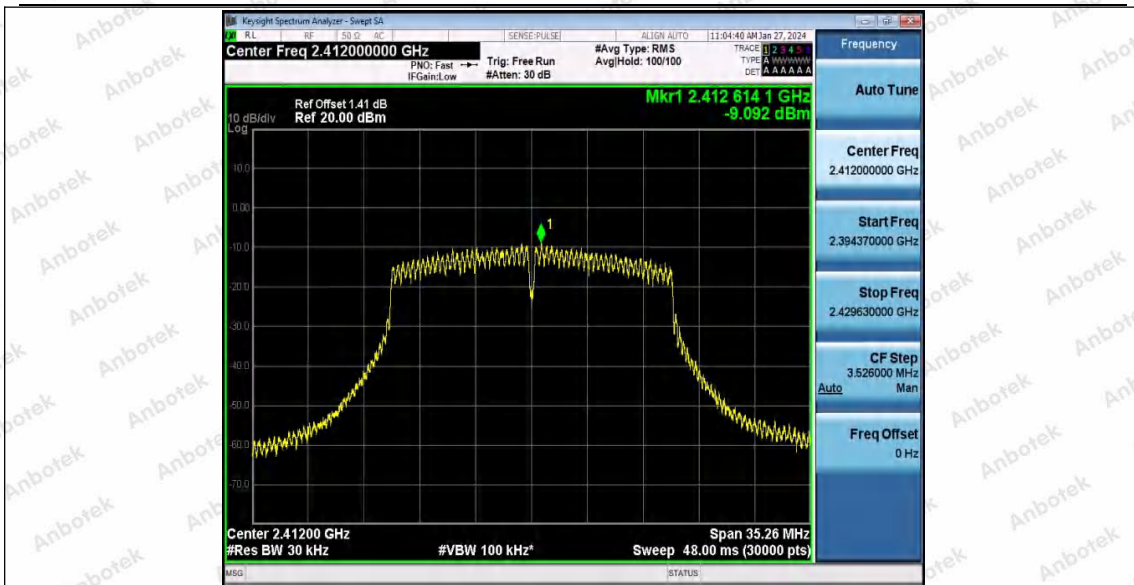
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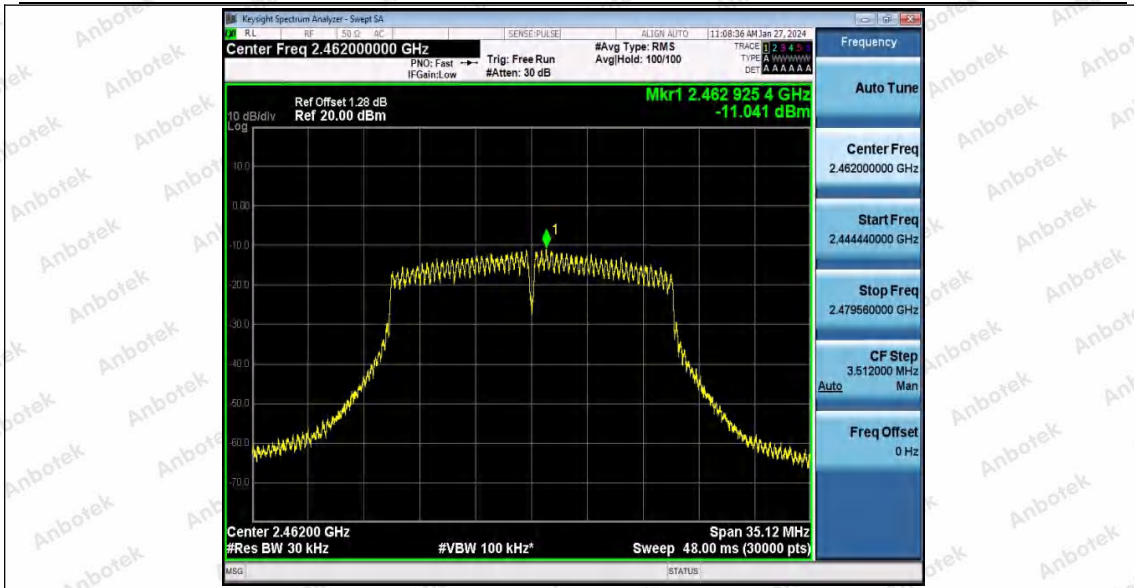


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Appendix D: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	2.75	-47.45	≤-27.25	PASS
		High	2462	3.21	-56.26	≤-26.79	PASS
802.11g	Ant1	Low	2412	1.74	-39.93	≤-28.26	PASS
		High	2462	1.88	-52.73	≤-28.12	PASS
802.11n(HT20) SISO	Ant1	Low	2412	2.54	-36.12	≤-27.46	PASS
		High	2462	0.26	-53.19	≤-29.74	PASS

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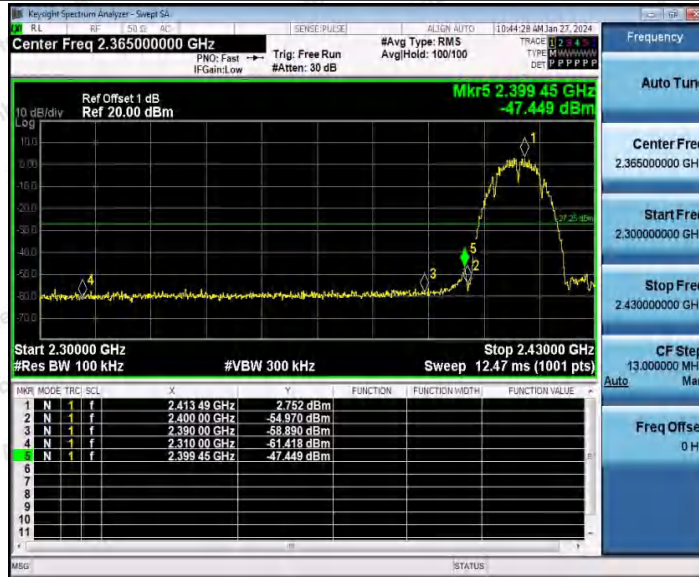


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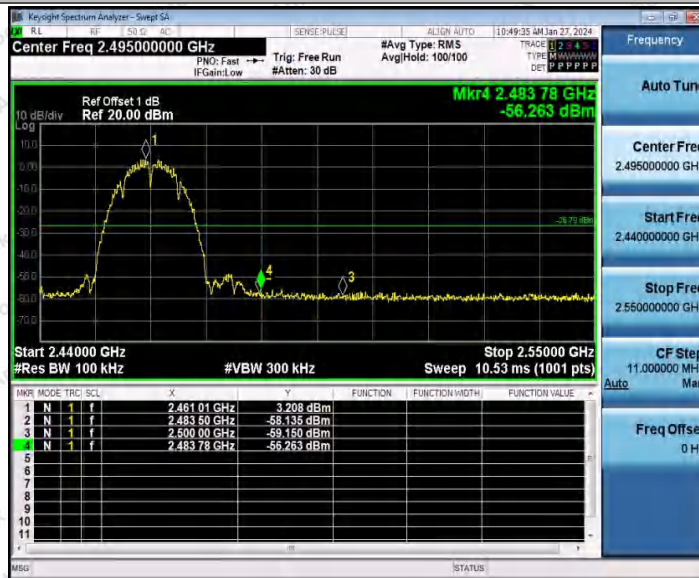


Test Graphs

802.11b_Ant1_Low_2412



802.11b_Ant1_High_2462



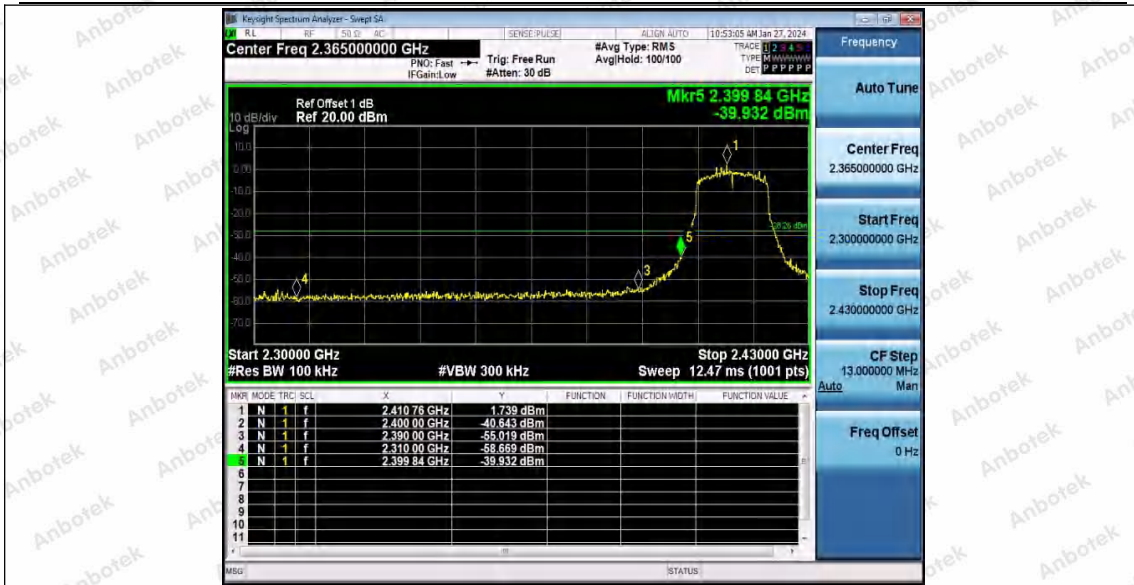
802.11g_Ant1_Low_2412

Shenzhen Anbotek Compliance Laboratory Limited

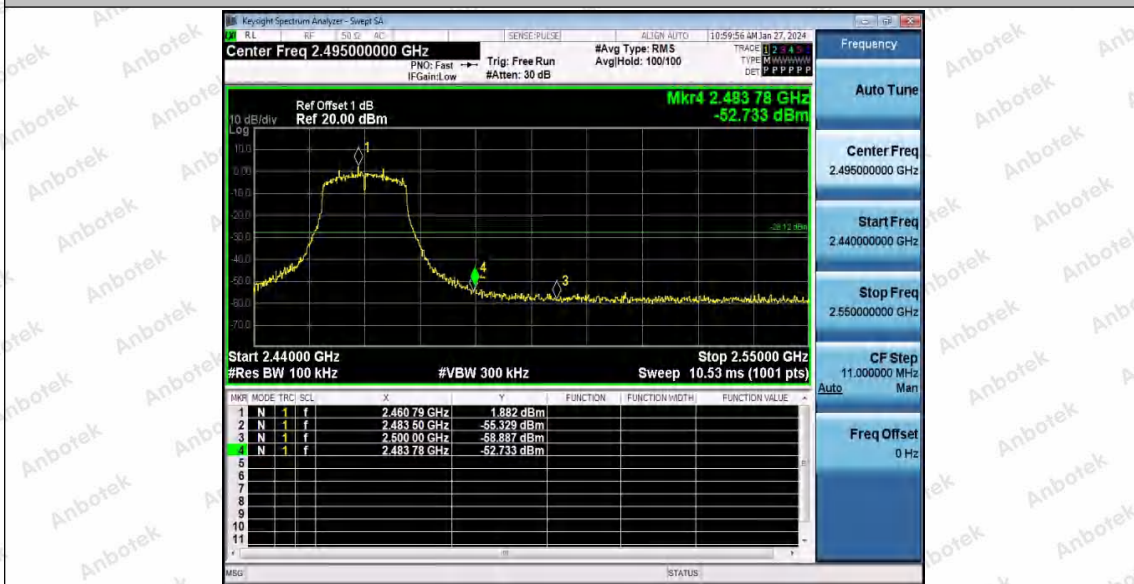
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11g_Ant1_High_2462



802.11n(HT20) SISO_Ant1_Low_2412

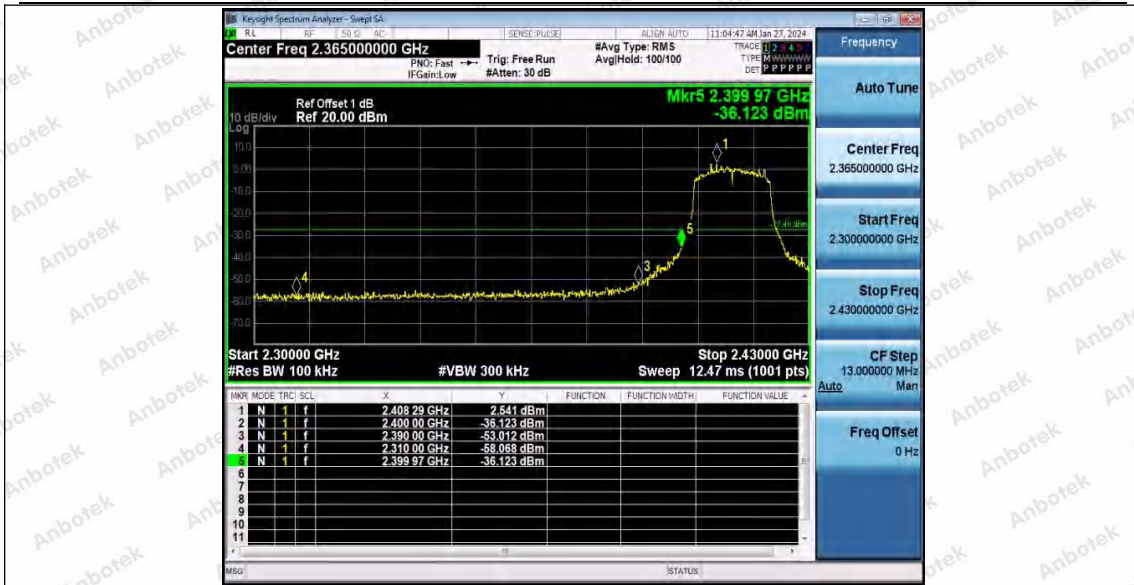
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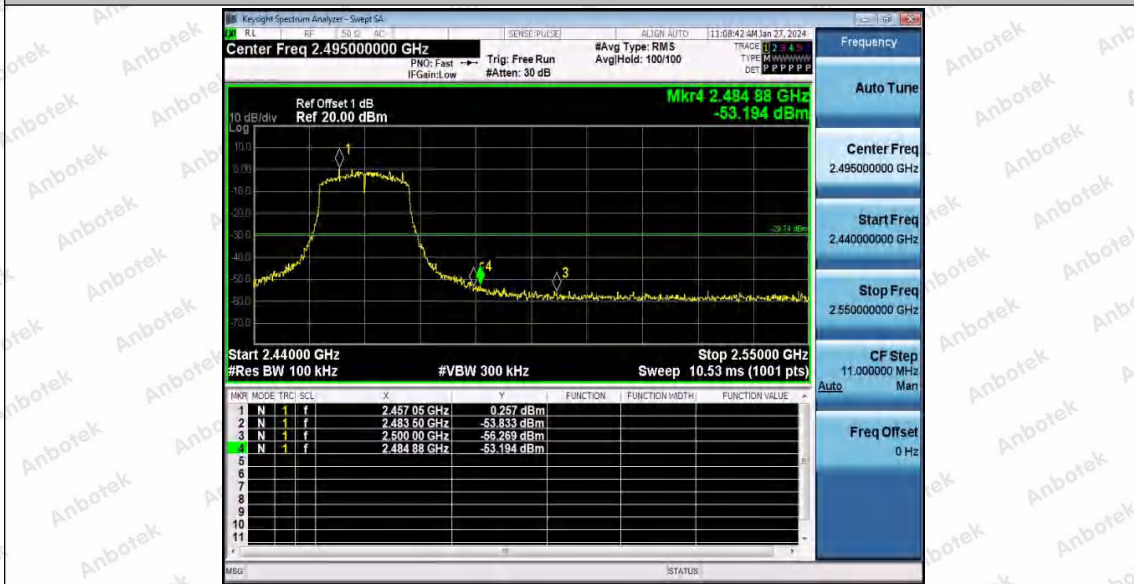


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802.11n(HT20) SISO_Ant1_High_2462



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Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	1.15	1.15	---	PASS
			30~1000	1.15	-63.12	≤-28.85	PASS
			1000~26500	1.15	-50.94	≤-28.85	PASS
		2437	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-62.71	≤-28.72	PASS
			1000~26500	1.28	-50.83	≤-28.72	PASS
		2462	Reference	1.95	1.95	---	PASS
			30~1000	1.95	-63.35	≤-28.05	PASS
			1000~26500	1.95	-46.85	≤-28.05	PASS
802.11g	Ant1	2412	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-64.28	≤-31.77	PASS
			1000~26500	-1.77	-52.96	≤-31.77	PASS
		2437	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-62.5	≤-31.16	PASS
			1000~26500	-1.16	-53.27	≤-31.16	PASS
		2462	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-63.51	≤-25.75	PASS
			1000~26500	4.25	-50.15	≤-25.75	PASS
802.11n(HT20) SISO	Ant1	2412	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-63.11	≤-29.69	PASS
			1000~26500	0.31	-53.64	≤-29.69	PASS
		2437	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-62.3	≤-30.2	PASS
			1000~26500	-0.20	-53.61	≤-30.2	PASS
		2462	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-62.14	≤-28.33	PASS
			1000~26500	1.67	-53.48	≤-28.33	PASS

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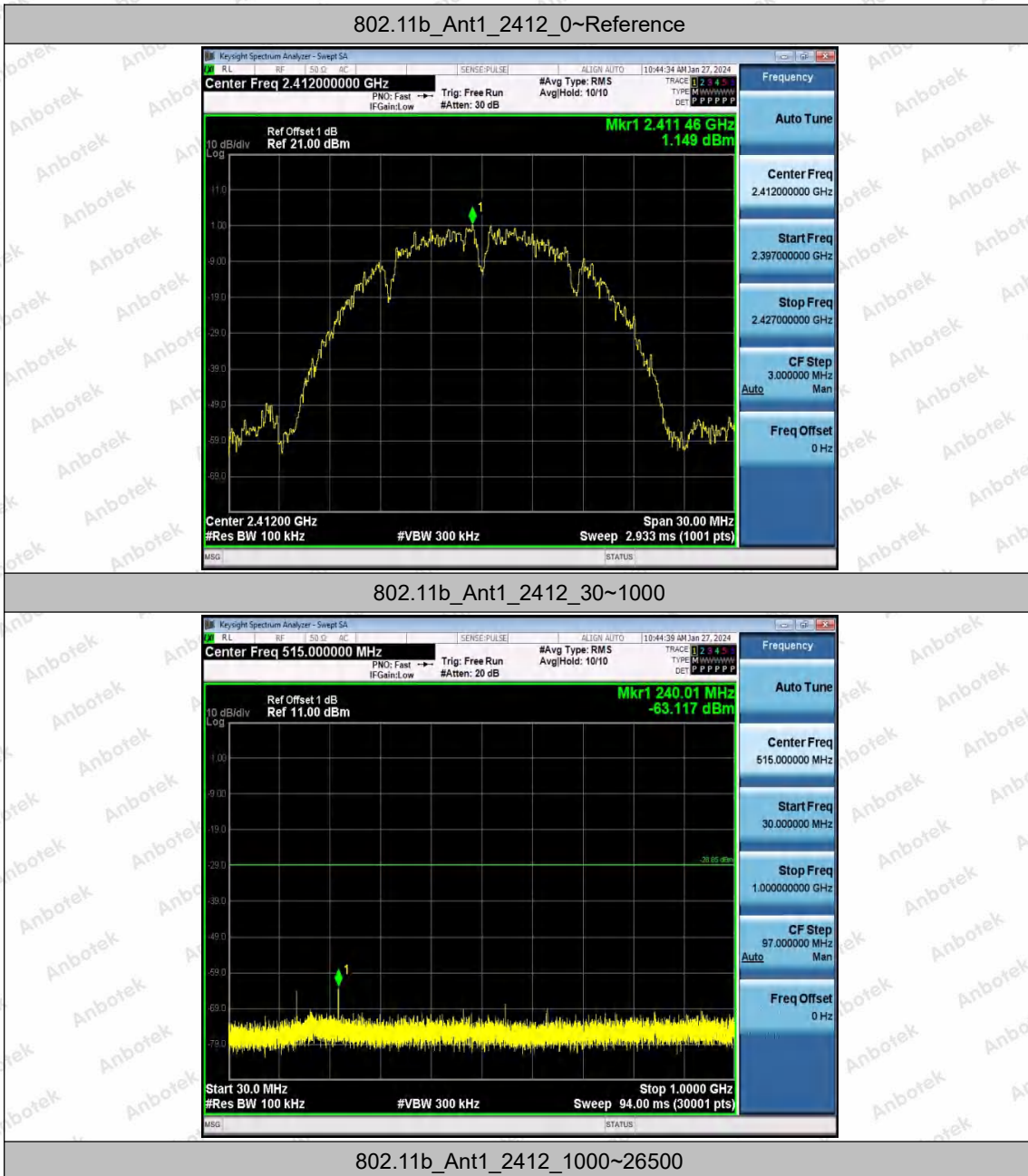
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Test Graphs

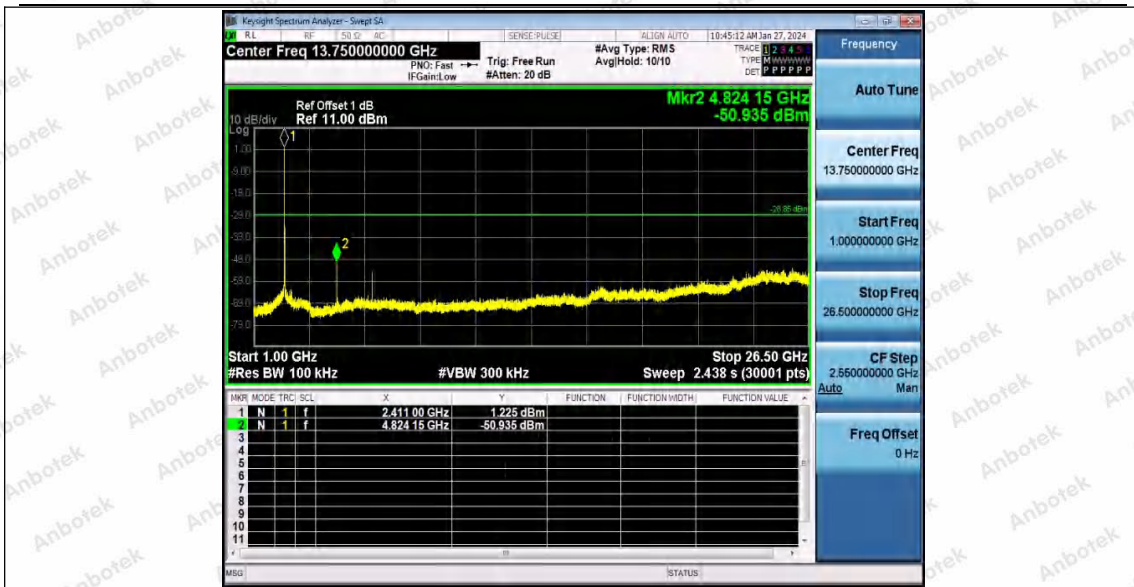


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802.11b_Ant1_2437_0~Reference



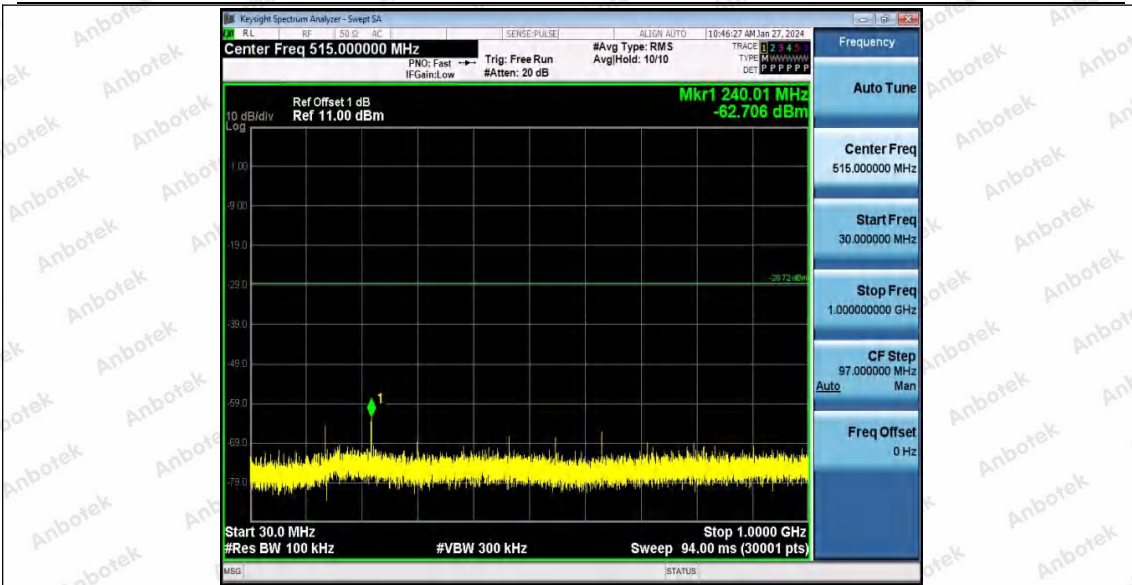
802.11b_Ant1_2437_30~1000

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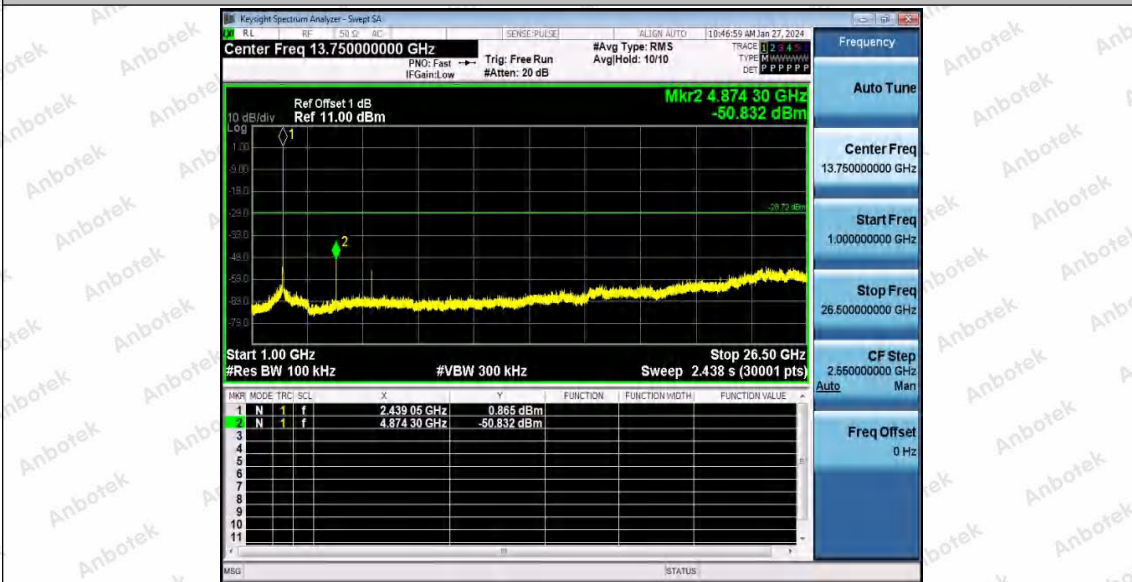
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11b_Ant1_2437_1000~26500



802.11b_Ant1_2462_0~Reference

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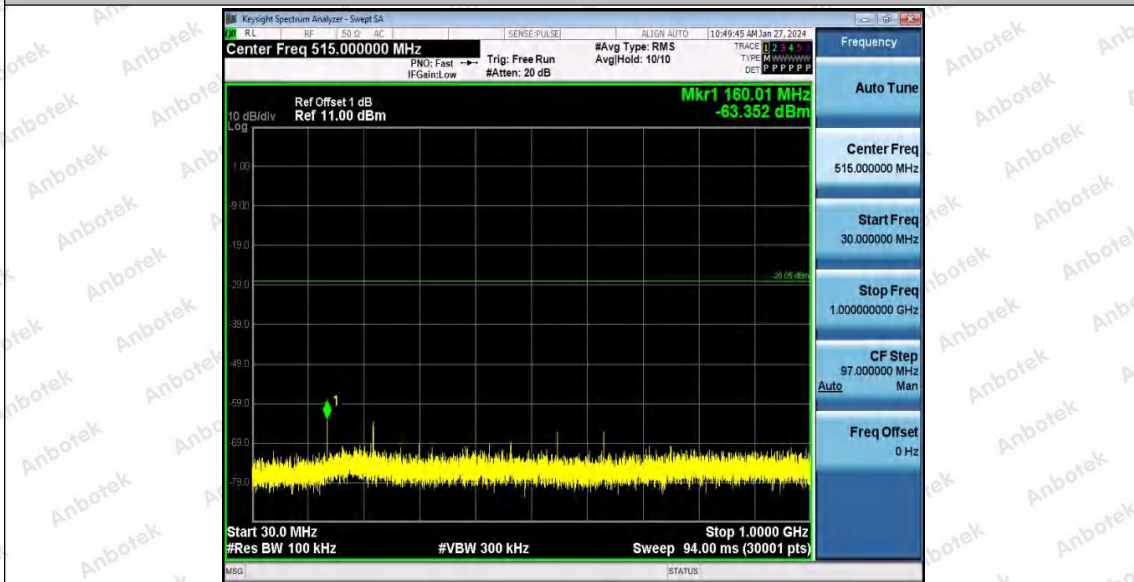
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11b_Ant1_2462_30~1000



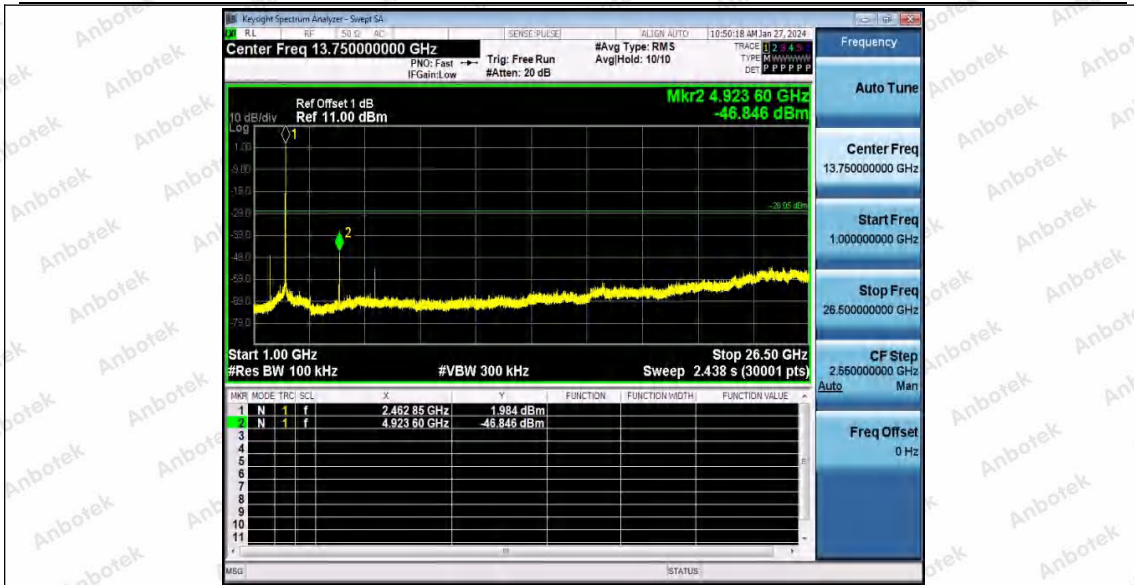
802.11b_Ant1_2462_1000~26500

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802.11g_Ant1_2412_0~Reference



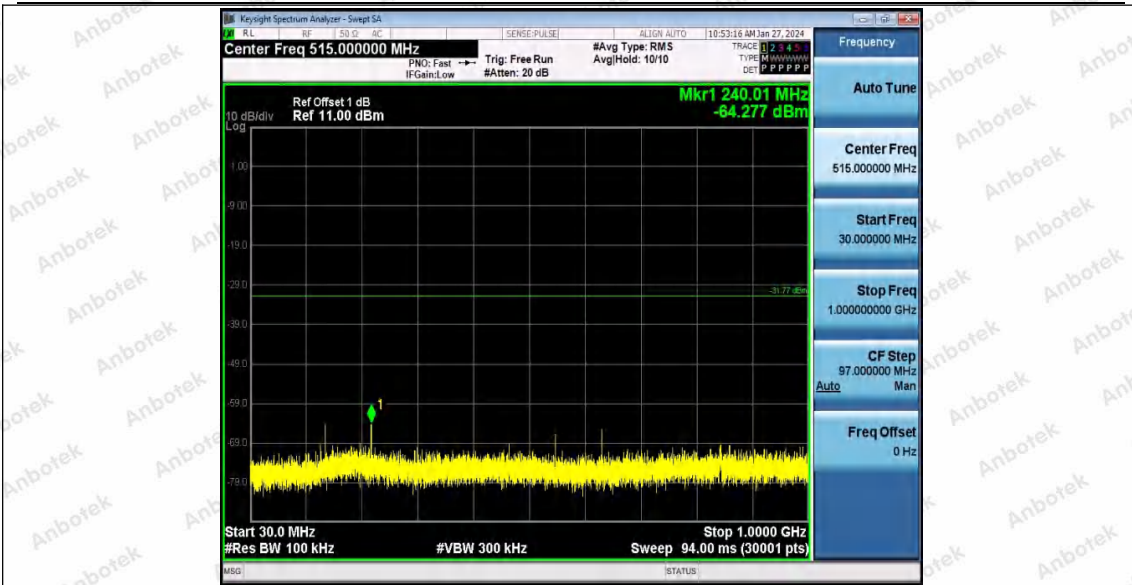
802.11g_Ant1_2412_30~1000

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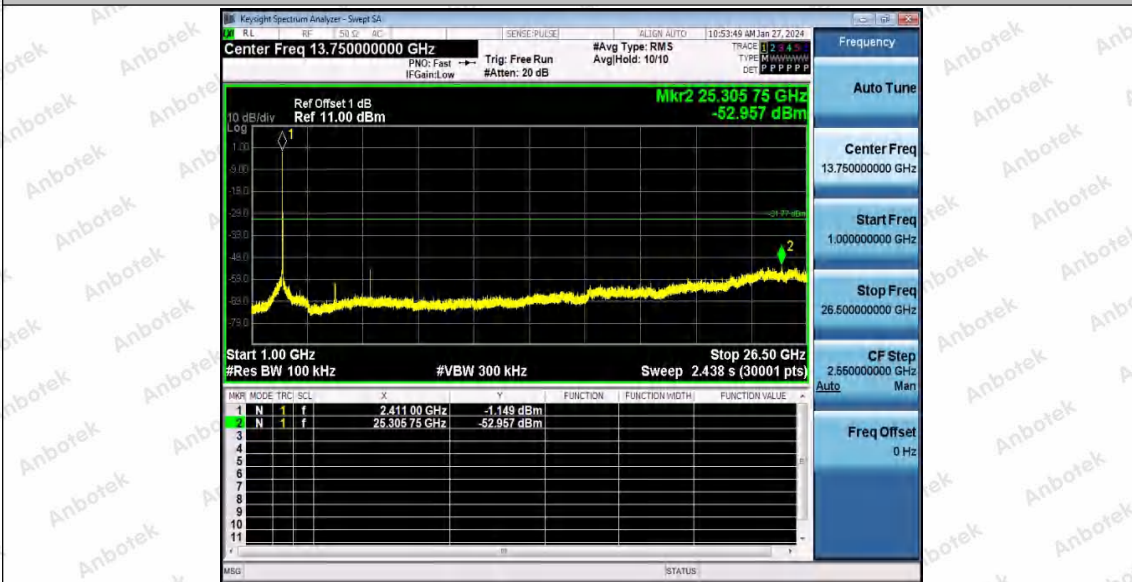
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11g_Ant1_2412_1000~26500



802.11g_Ant1_2437_0~Reference

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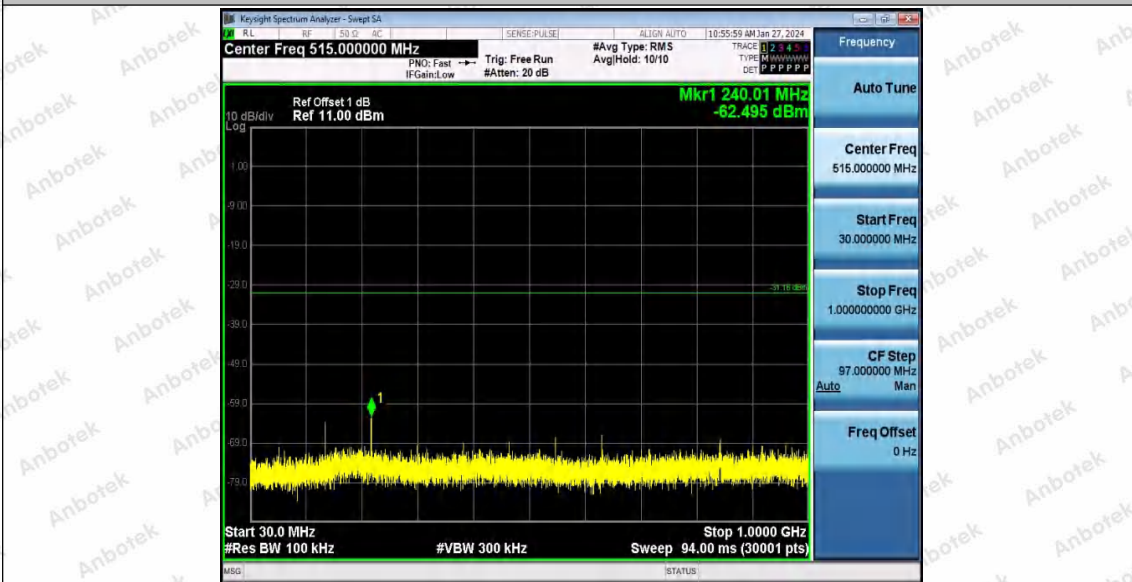
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11g_Ant1_2437_30~1000



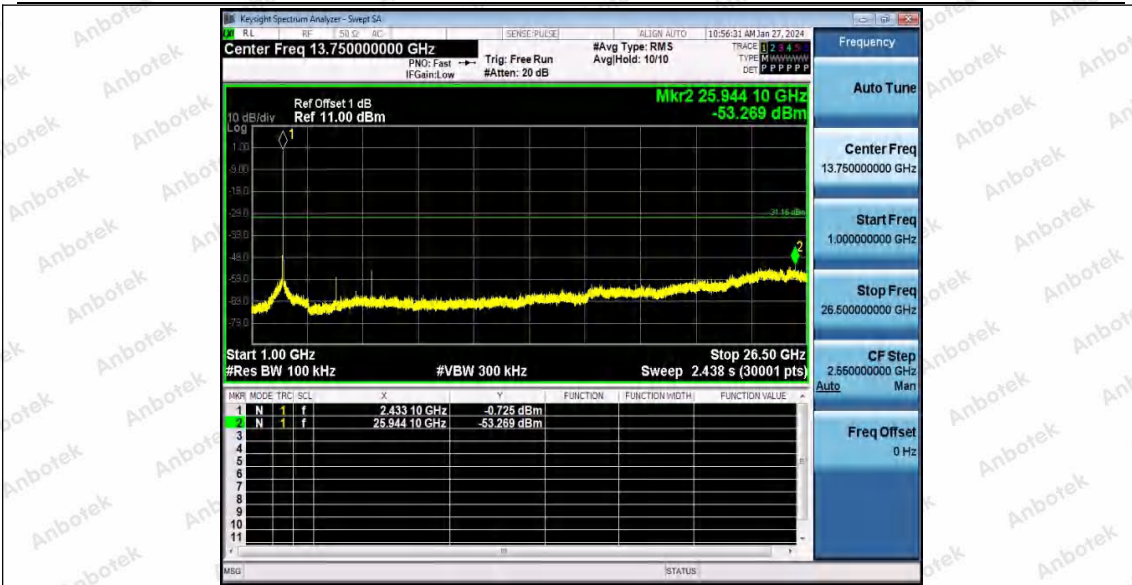
802.11g_Ant1_2437_1000~26500

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802.11g_Ant1_2462_0~Reference



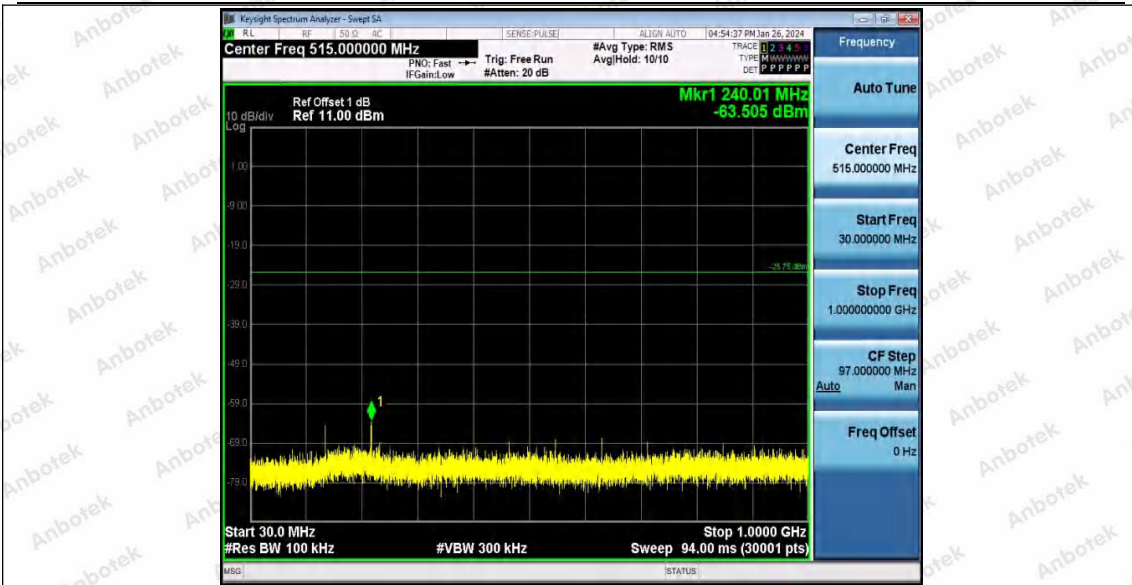
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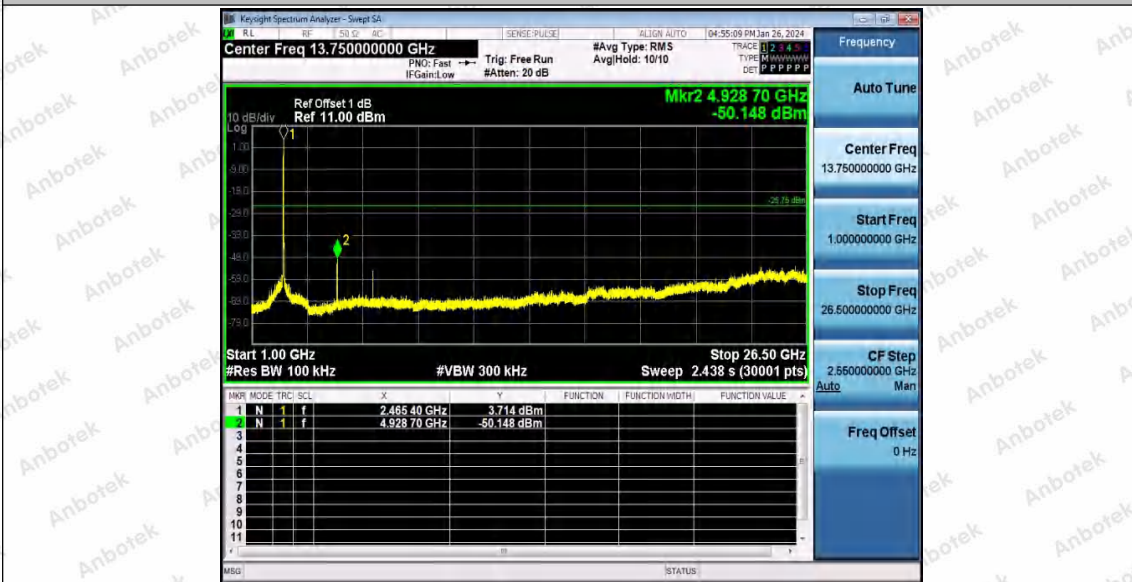
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802.11g_Ant1_2462_1000~26500



802.11n(HT20) SISO_Ant1_2412_0~Reference

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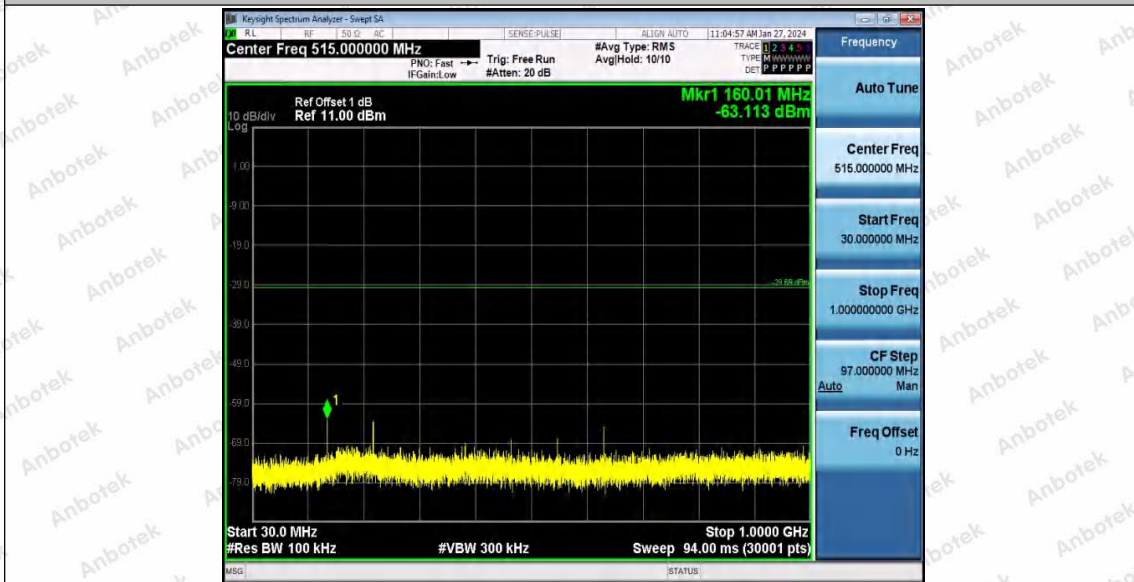
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802.11n(HT20) SISO_Ant1_2412_30~1000



802.11n(HT20) SISO_Ant1_2412_1000~26500

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802.11n(HT20) SISO_Ant1_2437_0~Reference



802.11n(HT20) SISO_Ant1_2437_30~1000

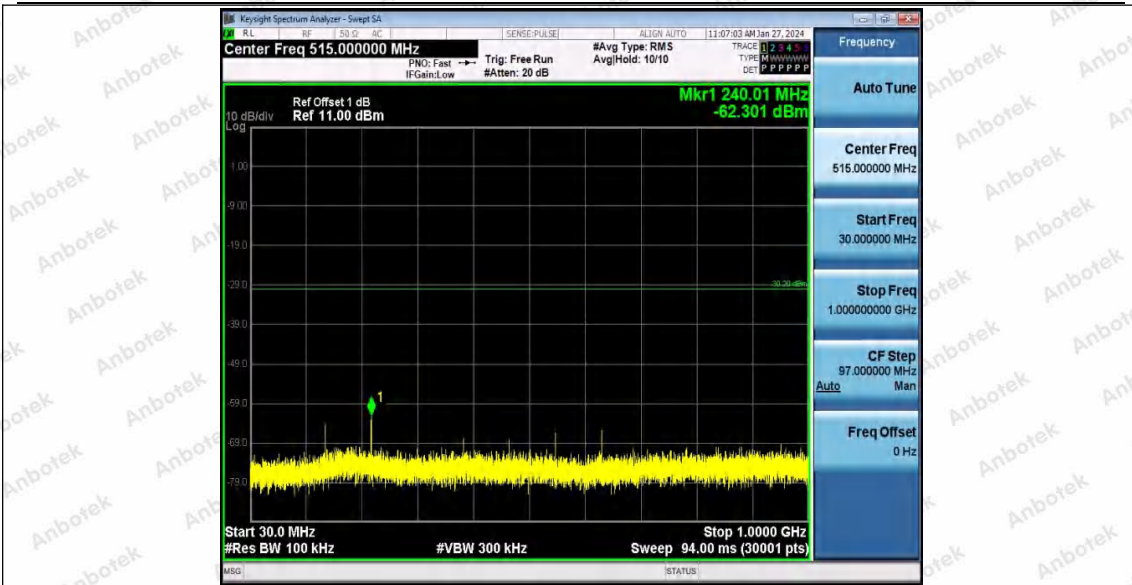
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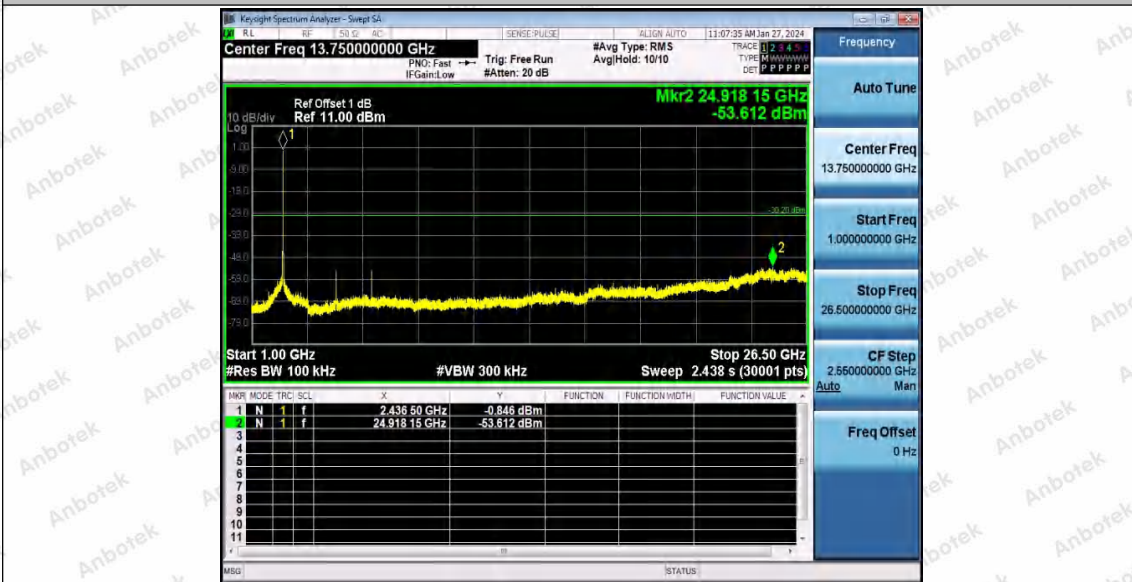


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802.11n(HT20) SISO_Ant1_2437_1000~26500



802.11n(HT20) SISO_Ant1_2462_0~Reference

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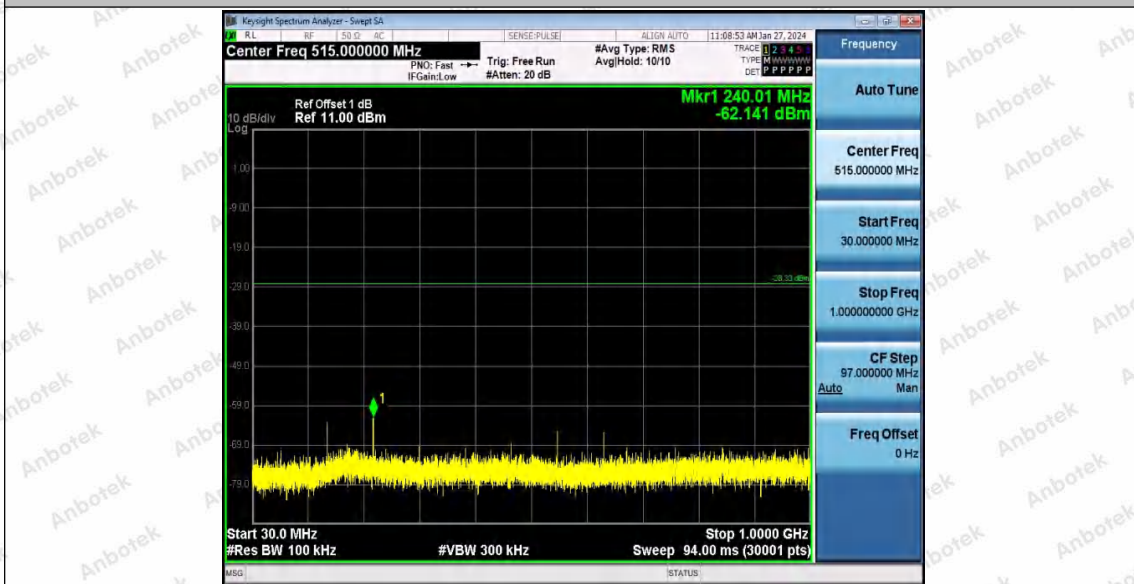
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11n(HT20) SISO_Ant1_2462_30~1000



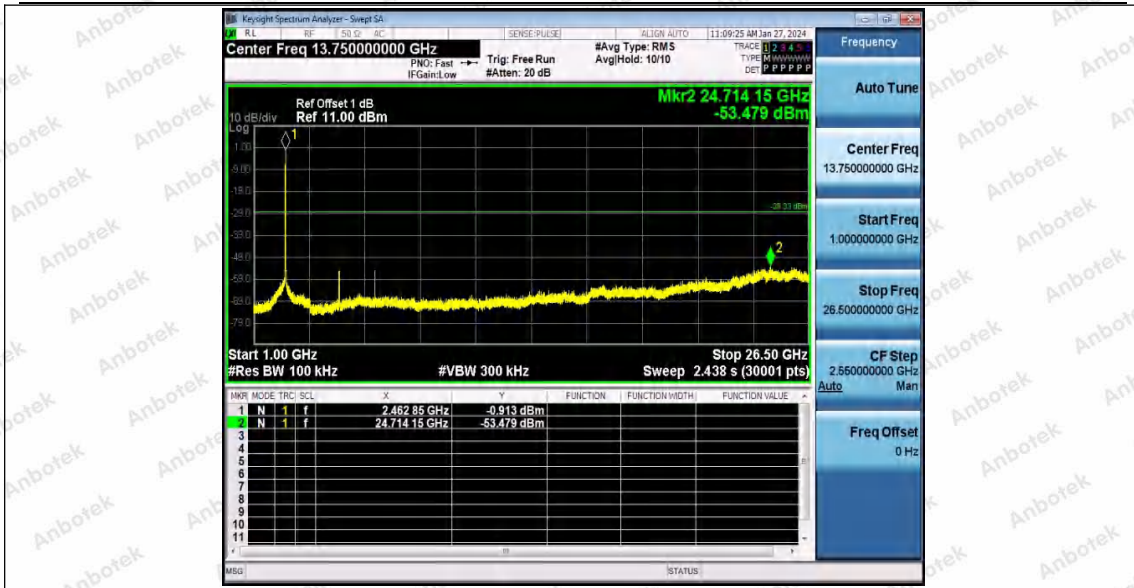
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Appendix F: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
802.11b	Ant1	2412	12.42	12.80	97.03	0.13
		2437	12.40	12.84	96.57	0.15
		2462	12.40	12.76	97.18	0.12
802.11g	Ant1	2412	2.06	2.25	91.56	0.38
		2437	2.06	2.29	89.96	0.46
		2462	2.07	2.23	92.83	0.32
802.11n(HT20) SISO	Ant1	2412	1.92	2.11	91.00	0.41
		2437	1.92	2.15	89.30	0.49
		2462	1.92	2.05	93.66	0.28

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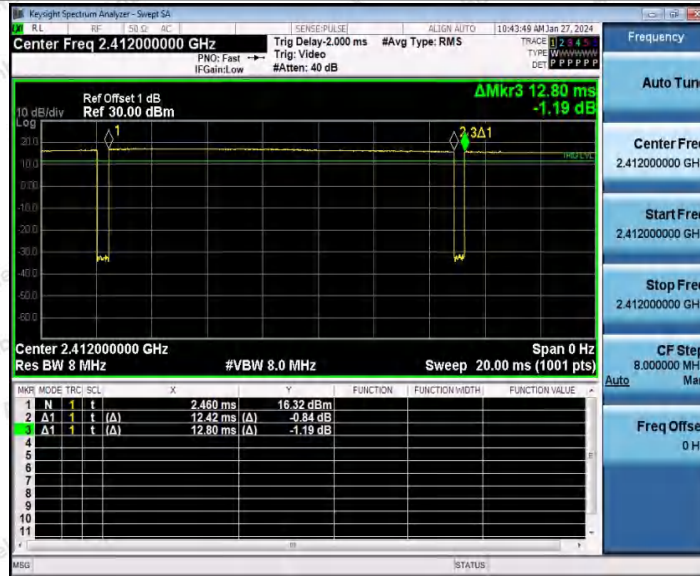


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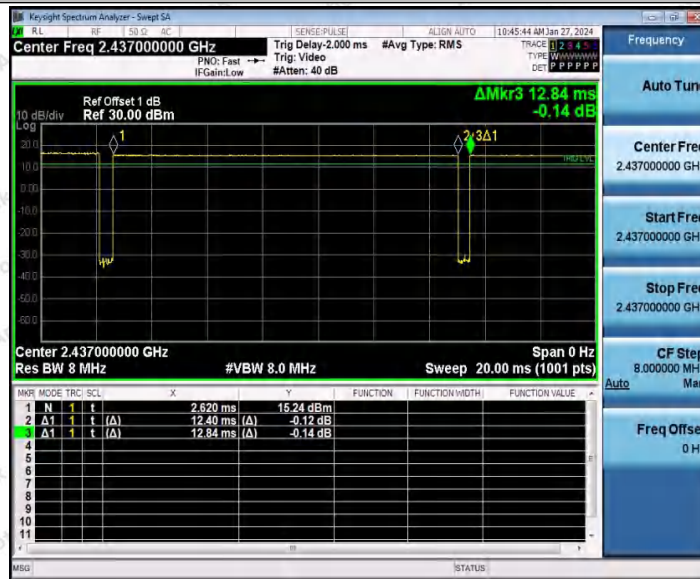


Test Graphs

802.11b_Ant1_2412

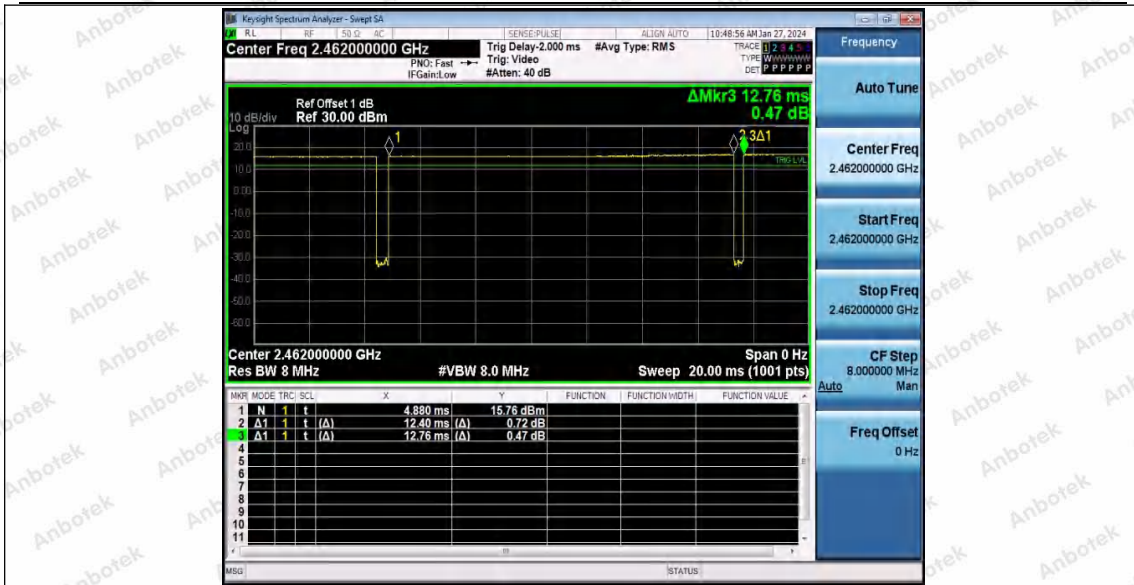


802.11b_Ant1_2437

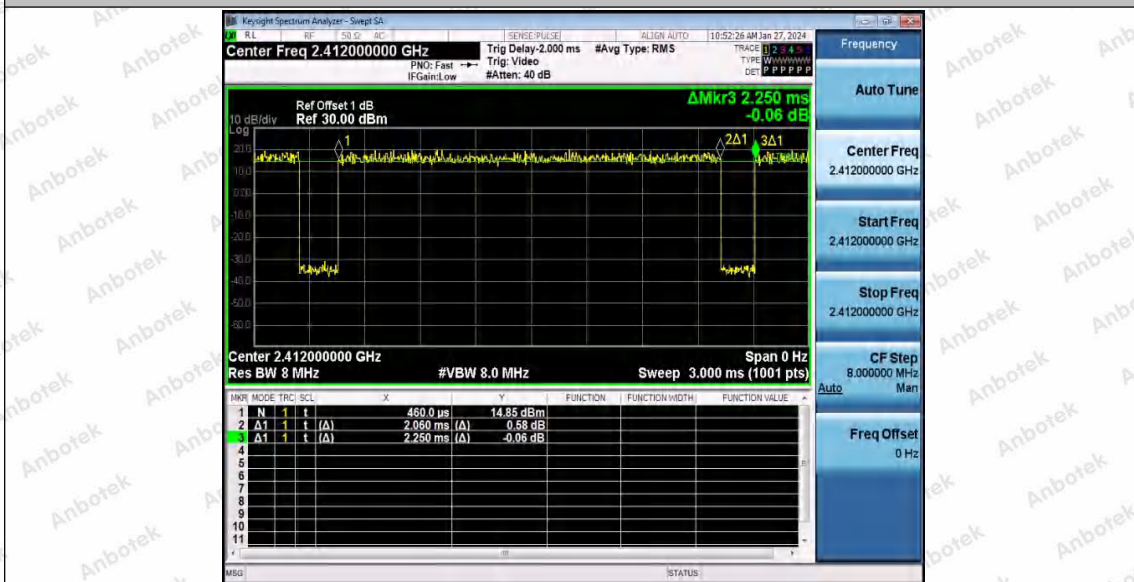


802.11b_Ant1_2462





802.11g_Ant1_2412



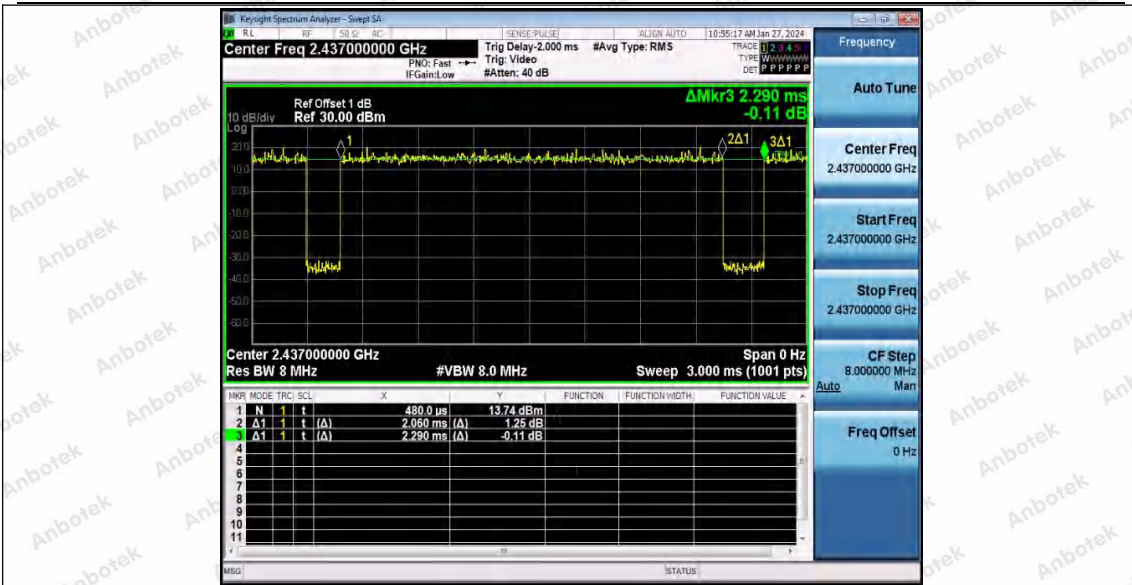
802.11g_Ant1_2437

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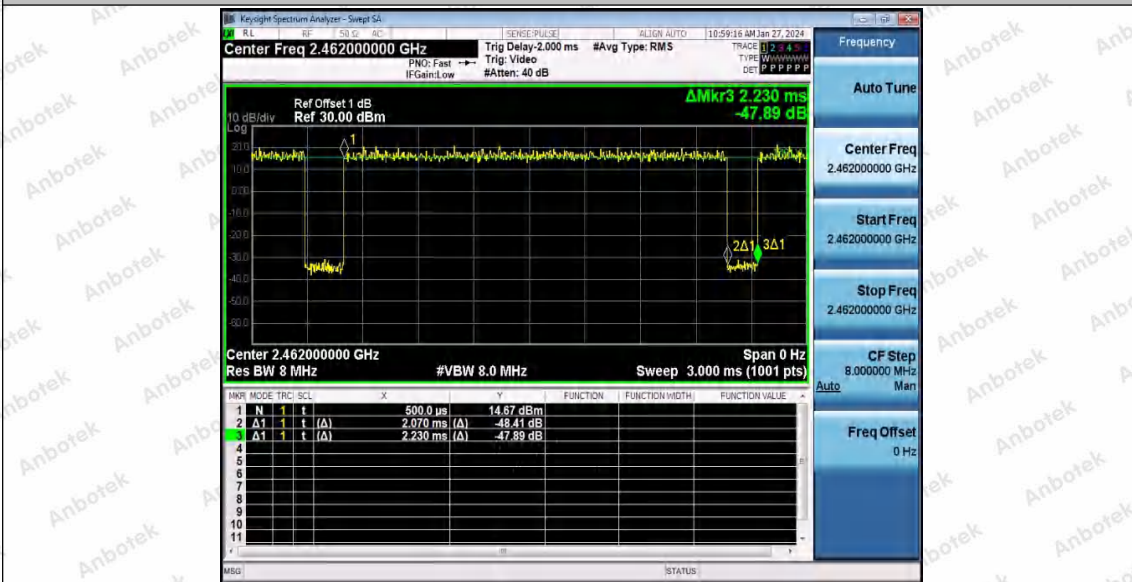
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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802.11g_Ant1_2462



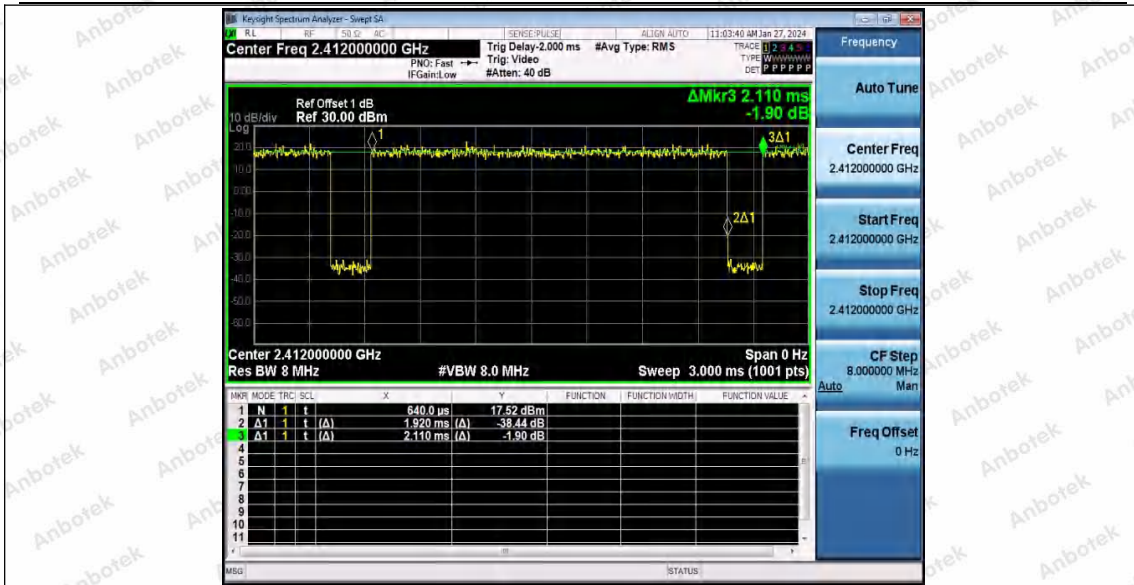
802.11n(HT20) SISO_Ant1_2412

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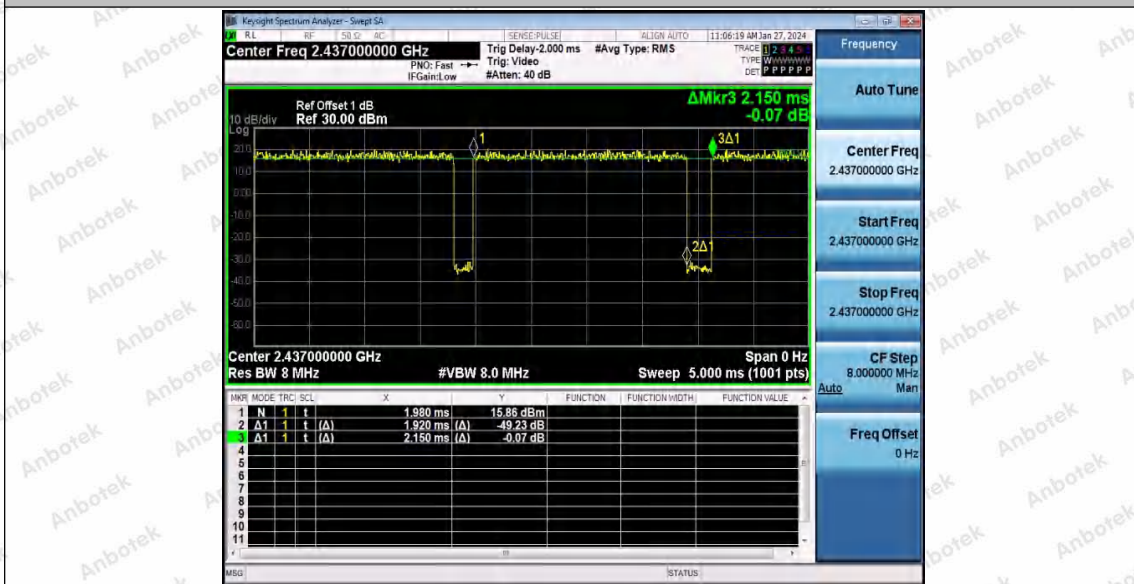
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802.11n(HT20) SISO_Ant1_2437



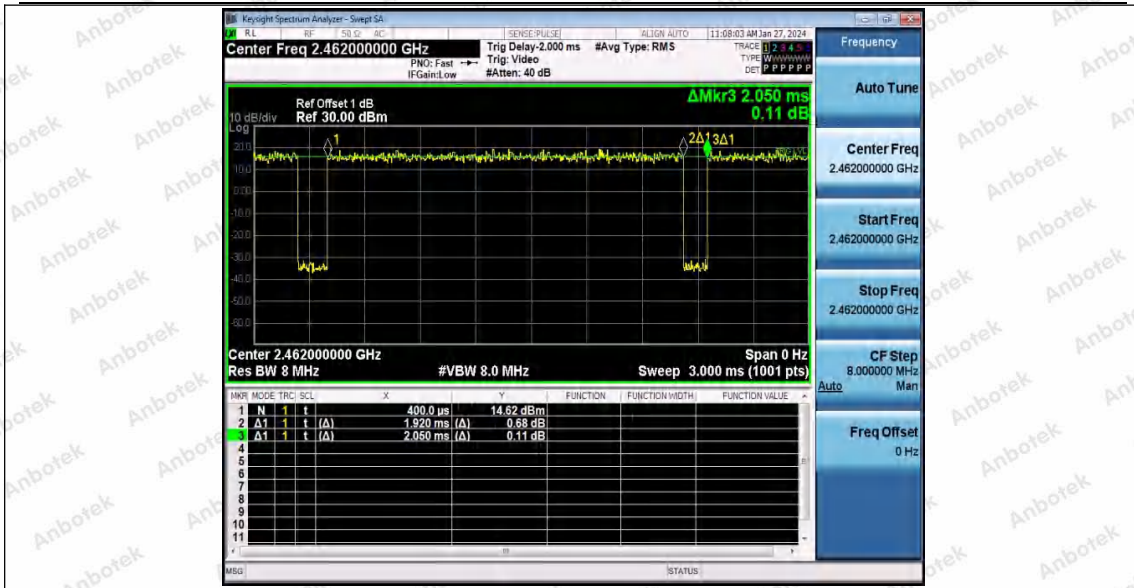
802.11n(HT20) SISO_Ant1_2462

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