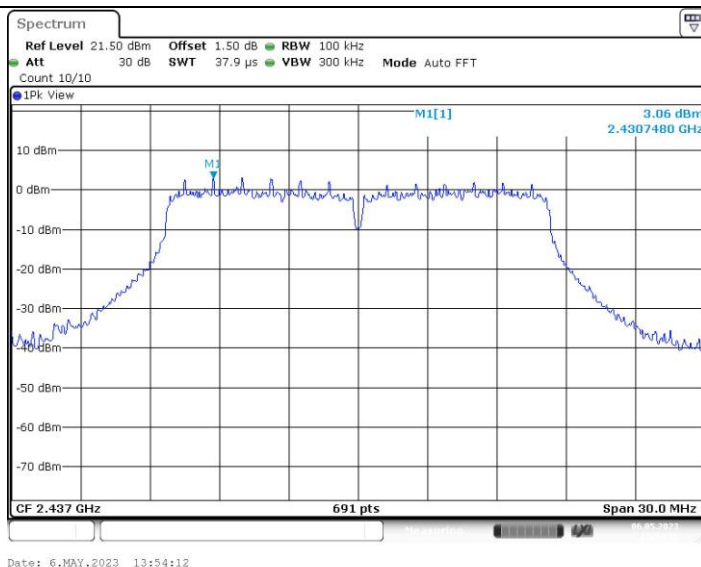
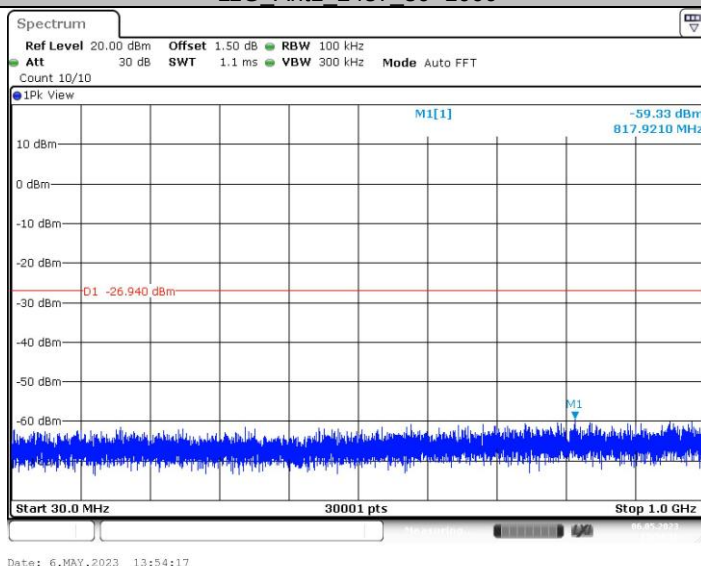
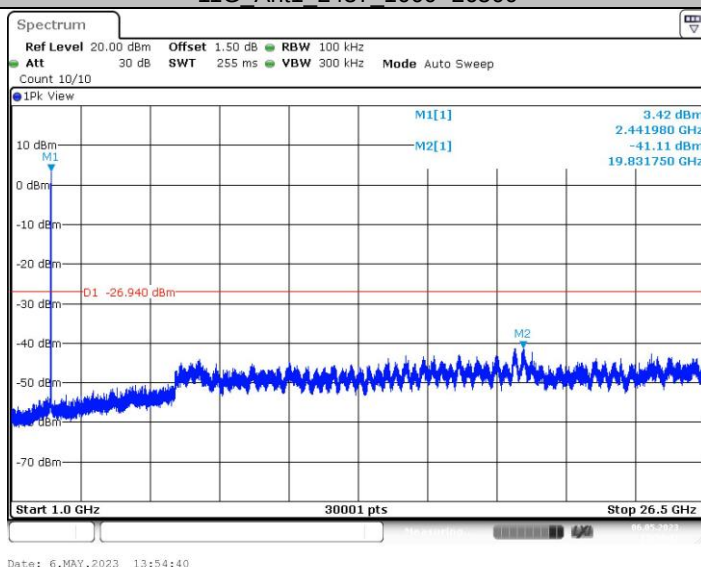




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference

CTC Laboratories, Inc.

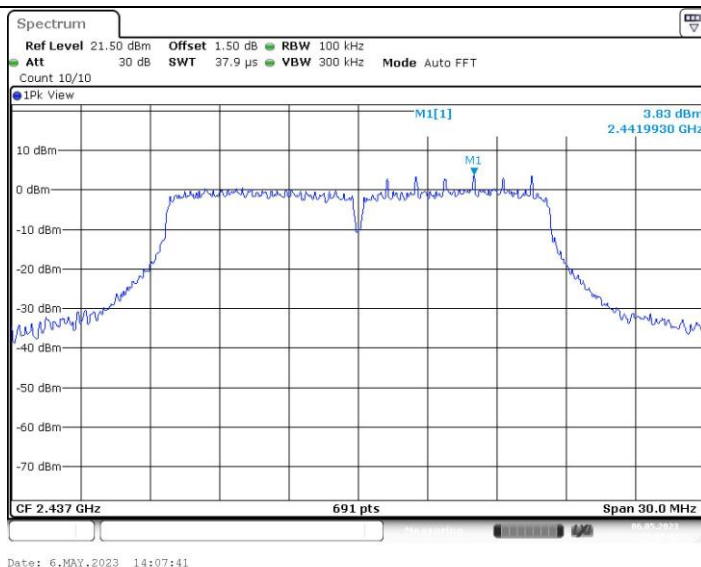
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

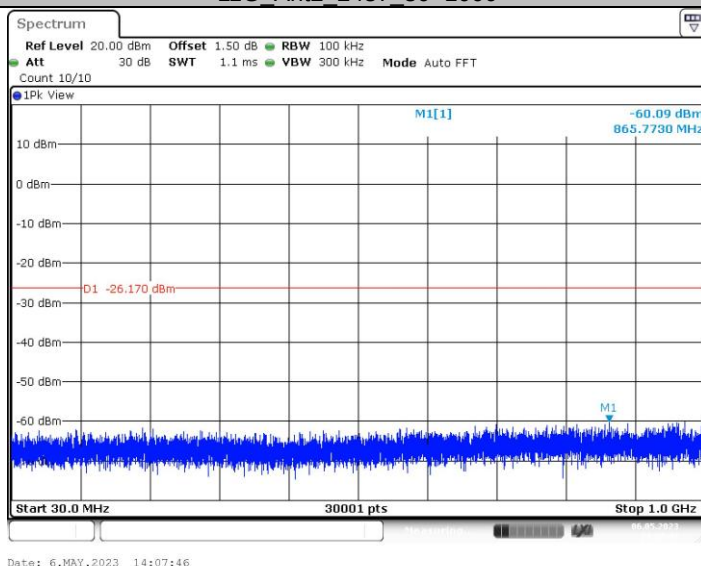
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

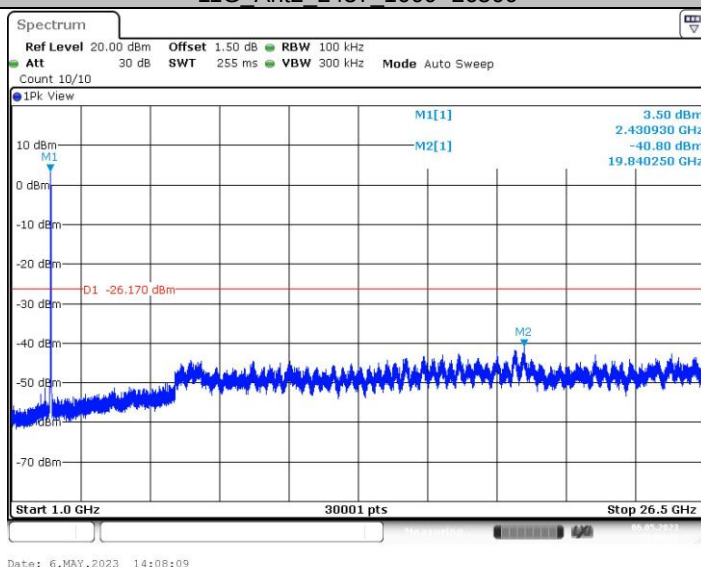
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11G_Ant2_2437_30~1000



11G_Ant2_2437_1000~26500



11G_Ant1_2462_0~Reference

CTC Laboratories, Inc.

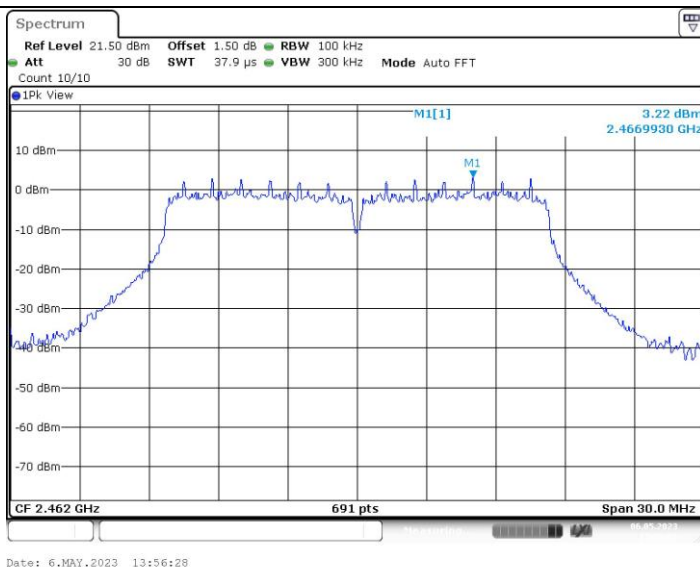
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

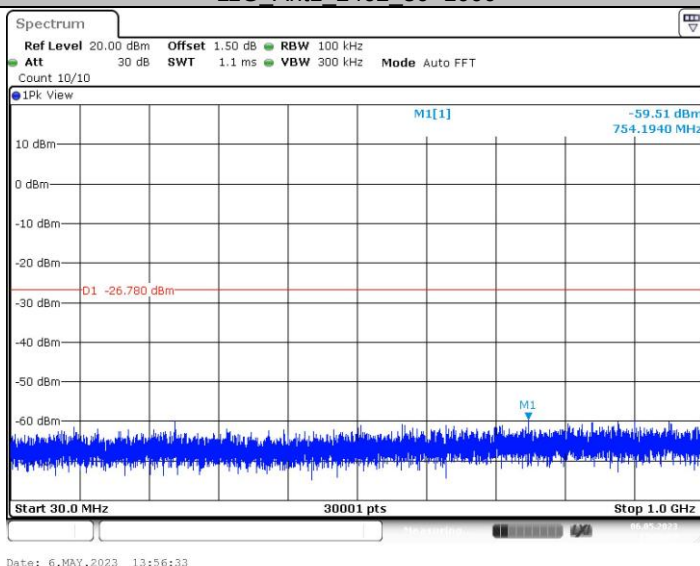
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

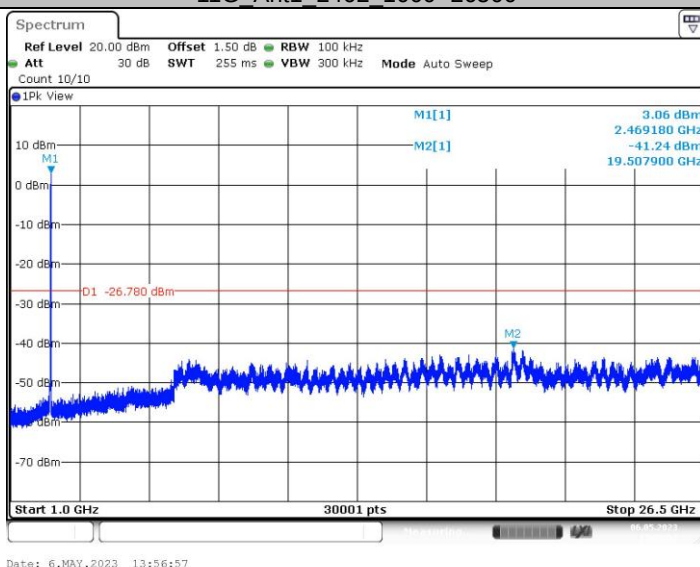
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



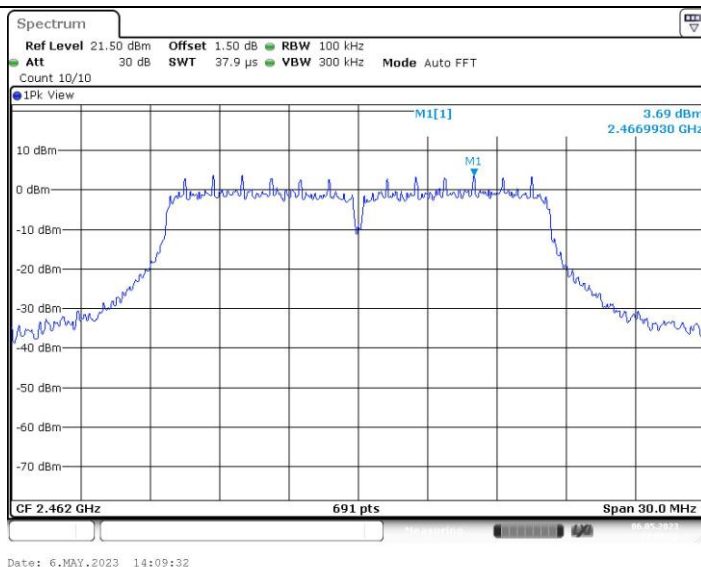
11G_Ant1_2462_30~1000



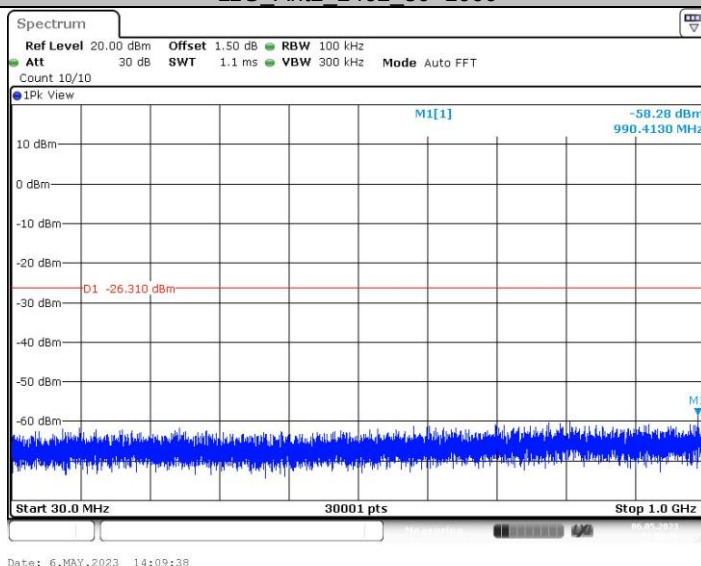
11G_Ant1_2462_1000~26500



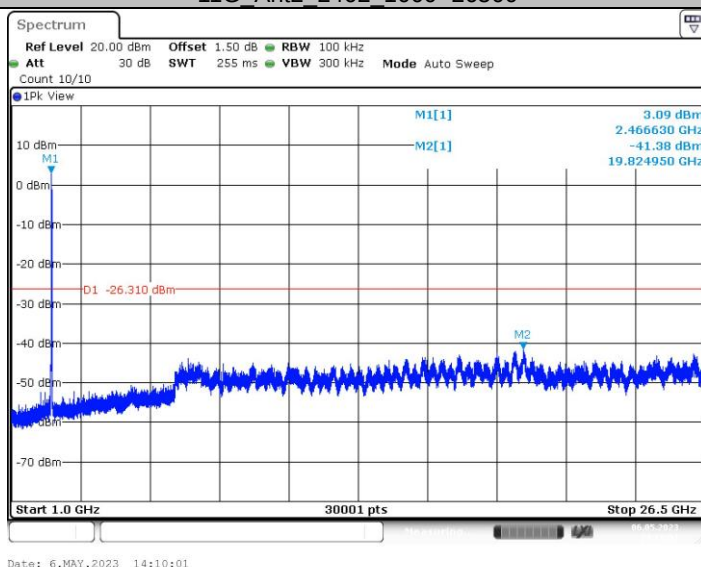
11G_Ant2_2462_0~Reference



11G_Ant2_2462_30~1000



11G_Ant2_2462_1000~26500



11N20MIMO_Ant1_2412_0-Reference

CTC Laboratories, Inc.

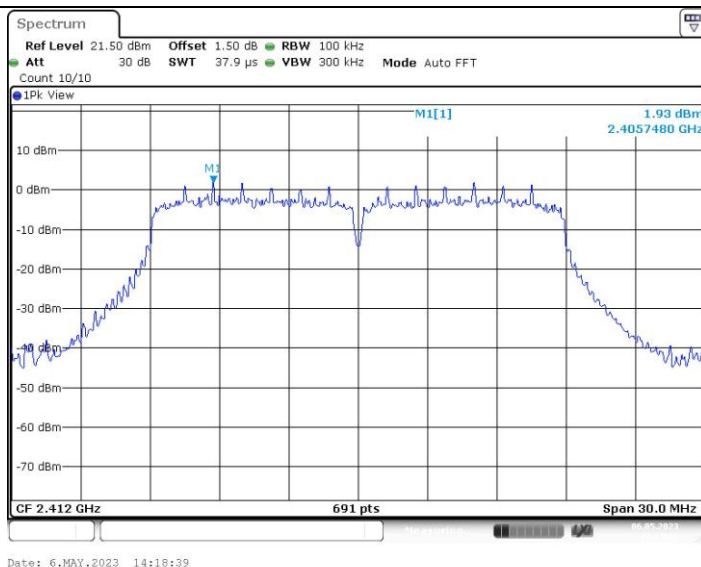
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

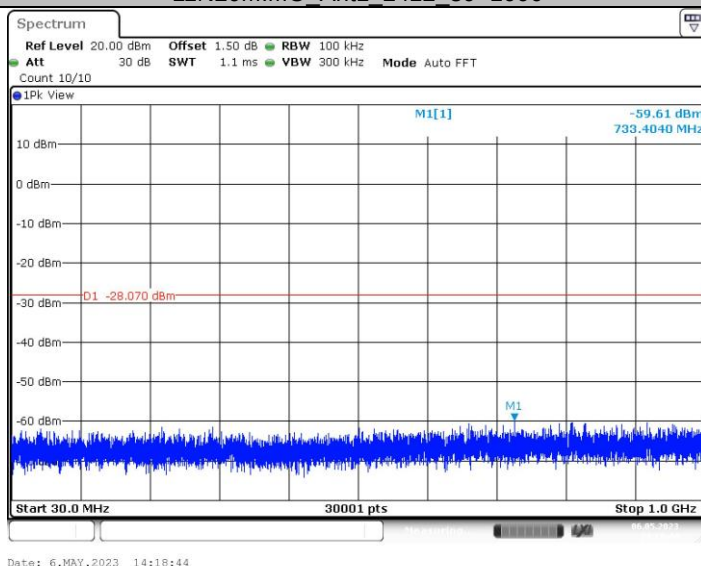
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

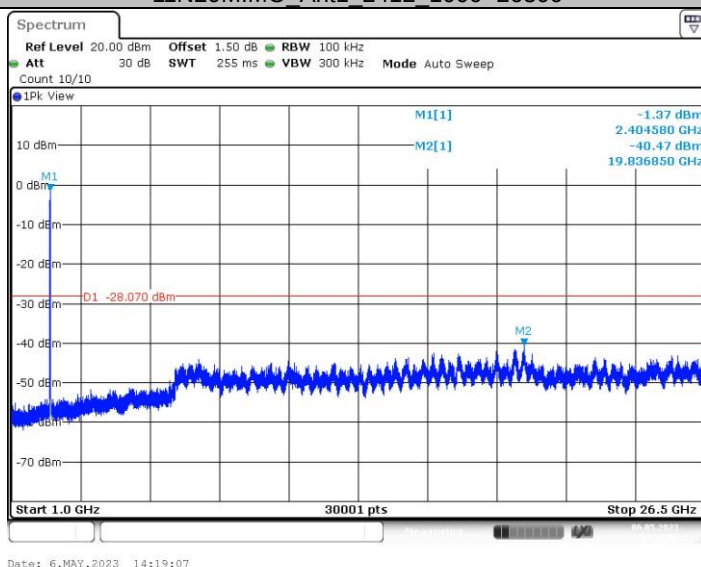
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11N20MIMO_Ant1_2412_30-1000



11N20MIMO_Ant1_2412_1000-26500



11N20MIMO_Ant2_2412_0-Reference

CTC Laboratories, Inc.

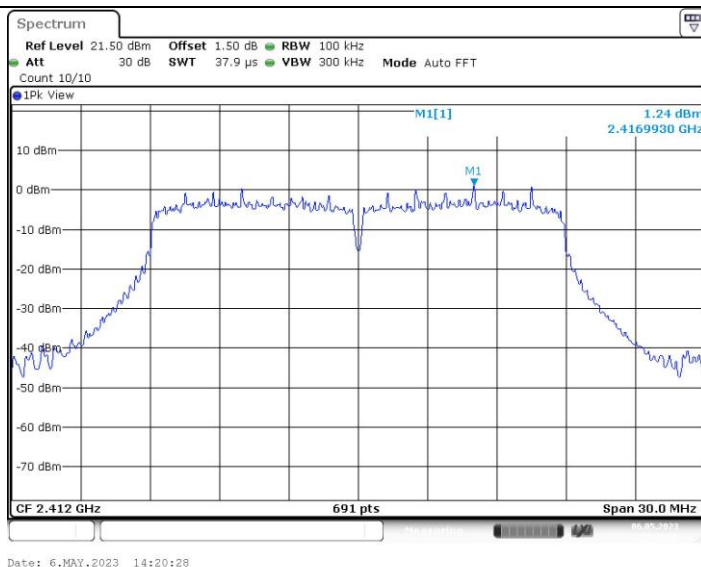
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

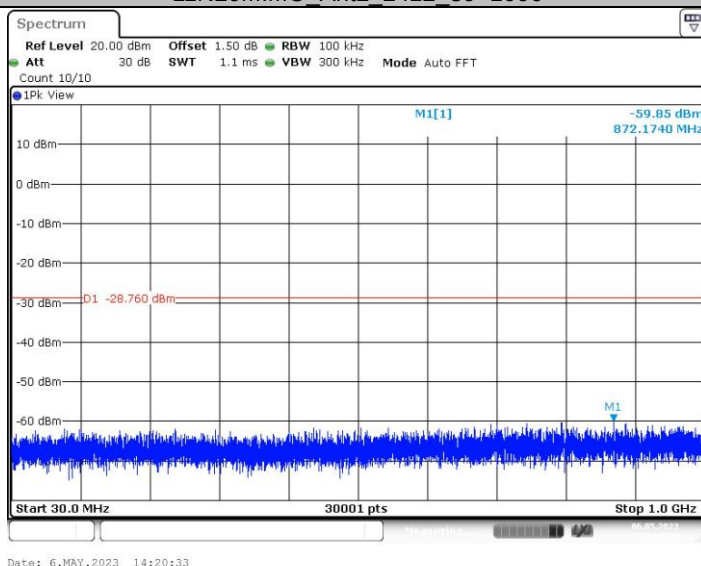
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

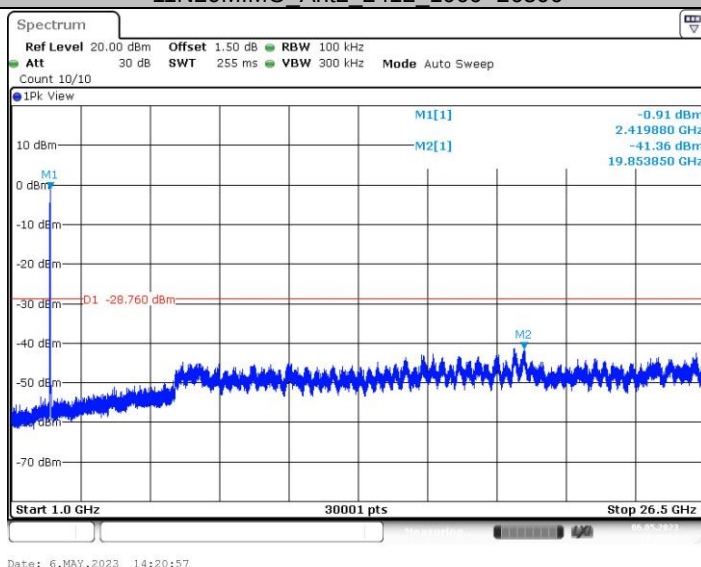
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11N20MIMO_Ant2_2412_30-1000



11N20MIMO_Ant2_2412_1000-26500



11N20MIMO_Ant1_2437_0-Reference

CTC Laboratories, Inc.

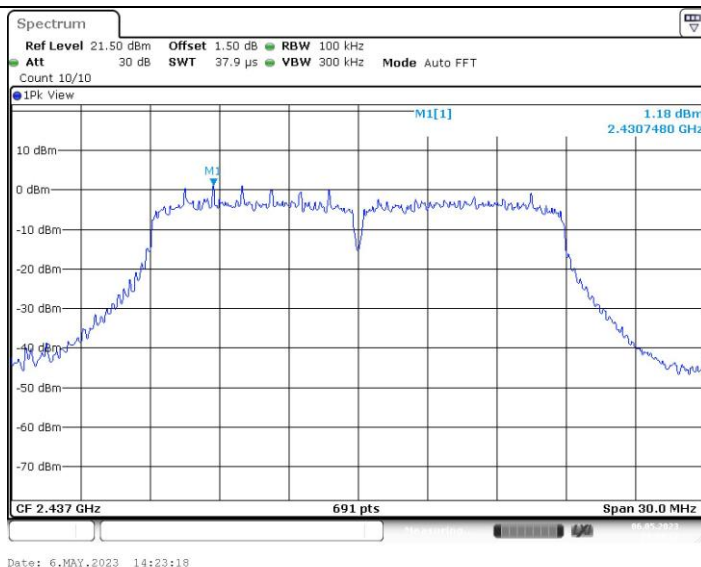
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

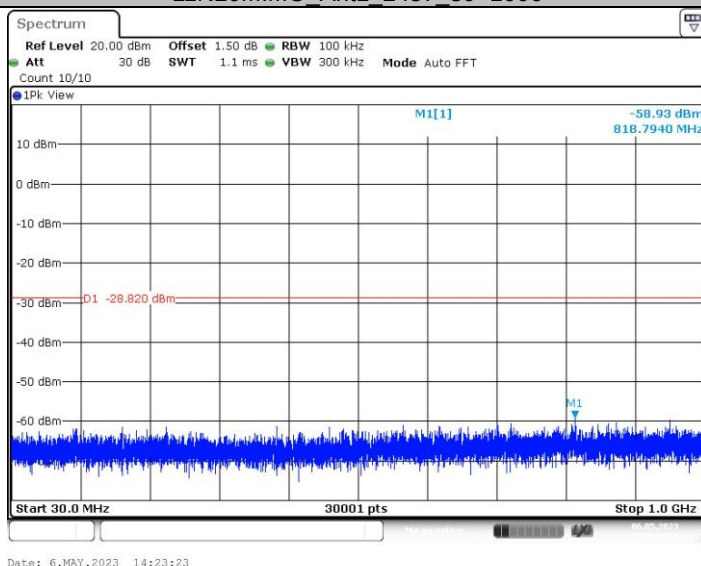
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

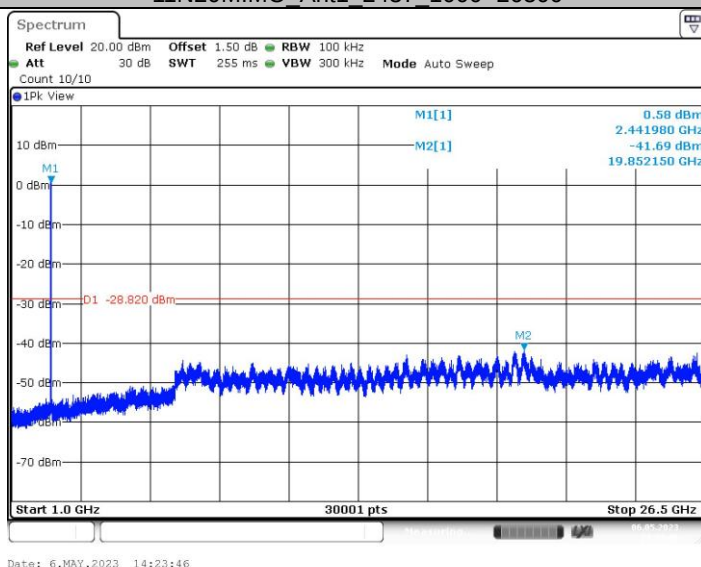
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11N20MIMO_Ant1_2437_30~1000



11N20MIMO_Ant1_2437_1000~26500



11N20MIMO_Ant2_2437_0~Reference

CTC Laboratories, Inc.

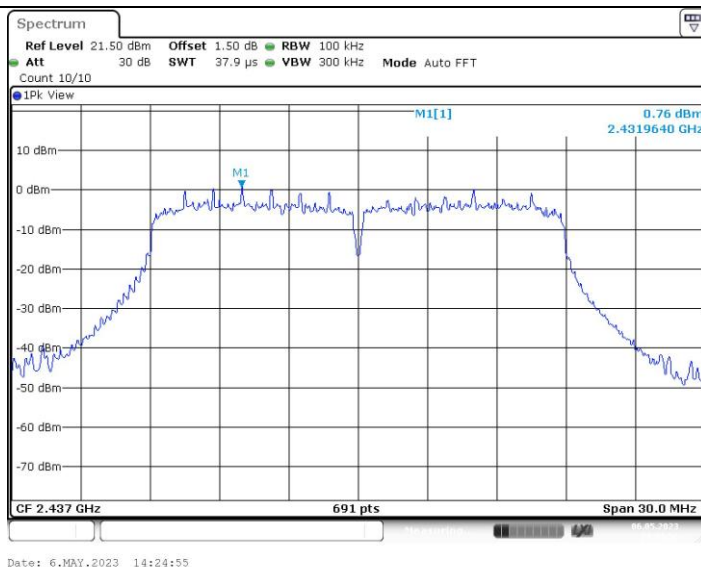
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

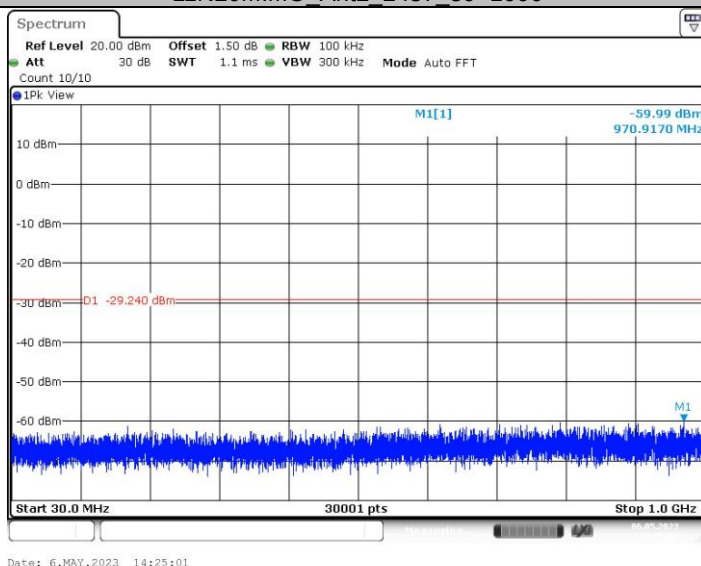
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

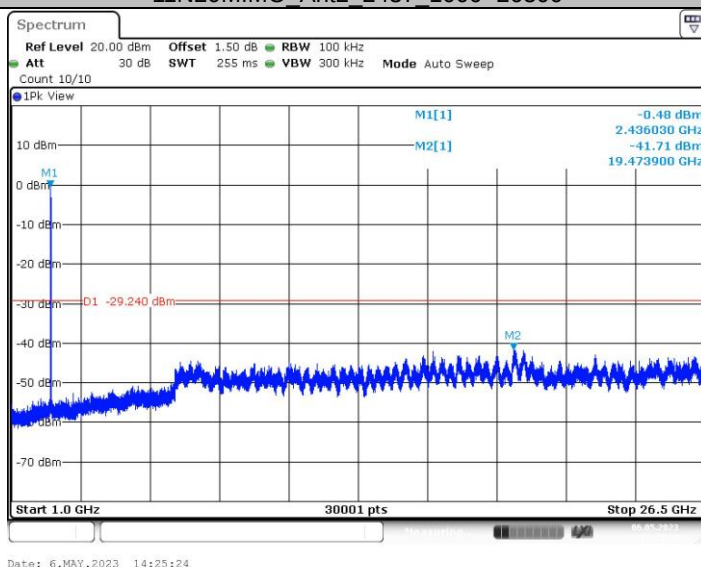
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11N20MIMO_Ant2_2437_30-1000



11N20MIMO_Ant2_2437_1000-26500



11N20MIMO_Ant1_2462_0-Reference

CTC Laboratories, Inc.

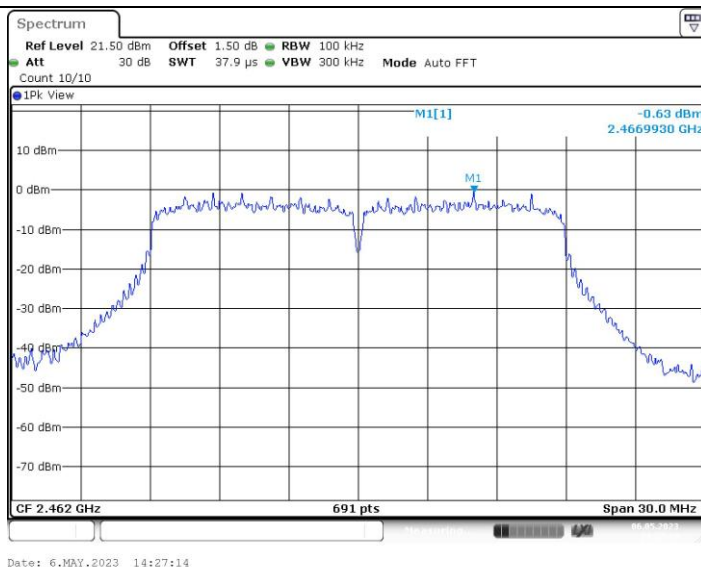
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

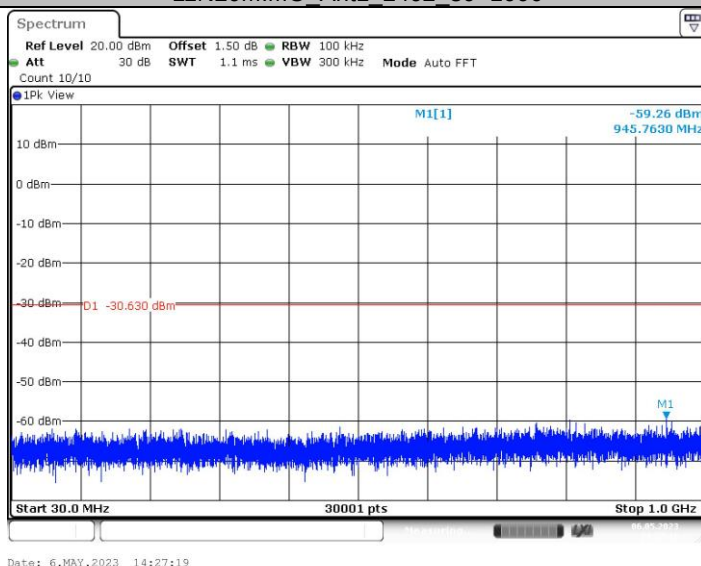
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

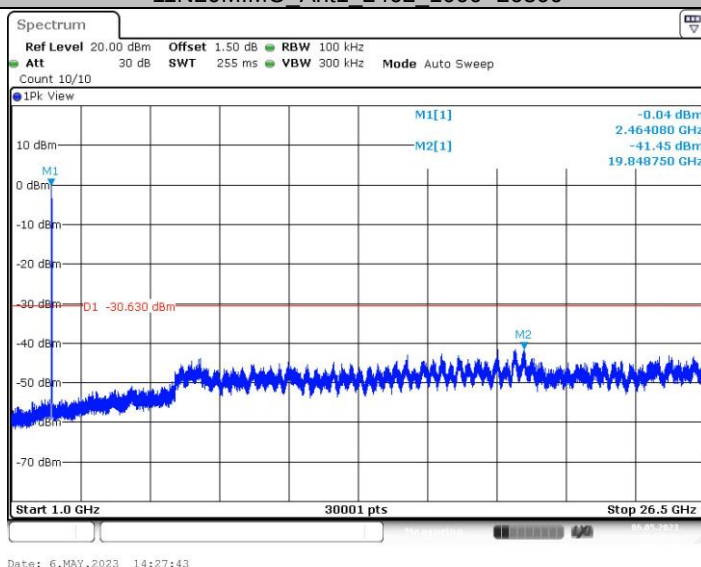
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



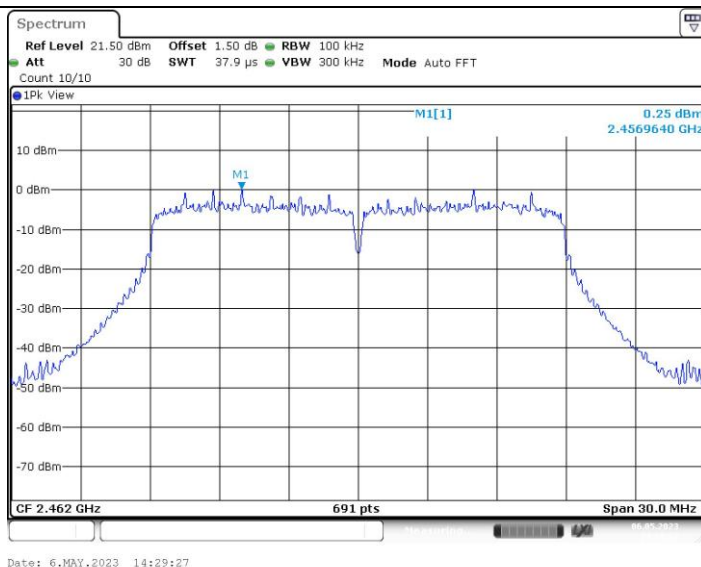
11N20MIMO_Ant1_2462_30-1000



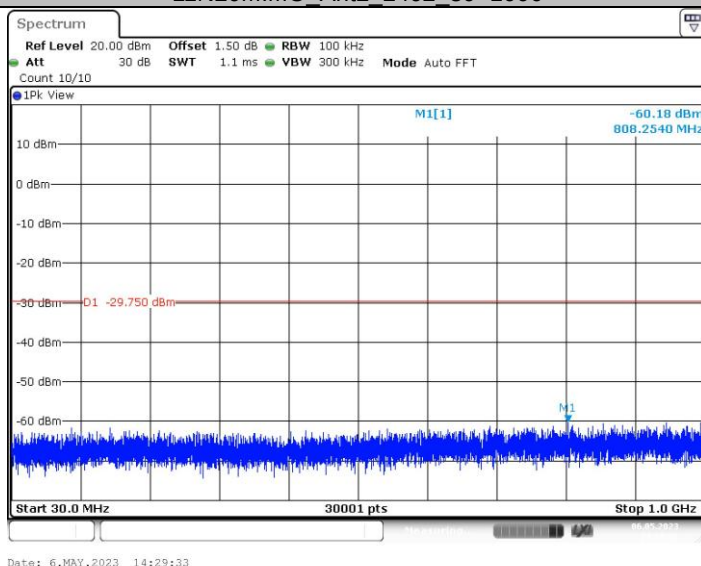
11N20MIMO_Ant1_2462_1000-26500



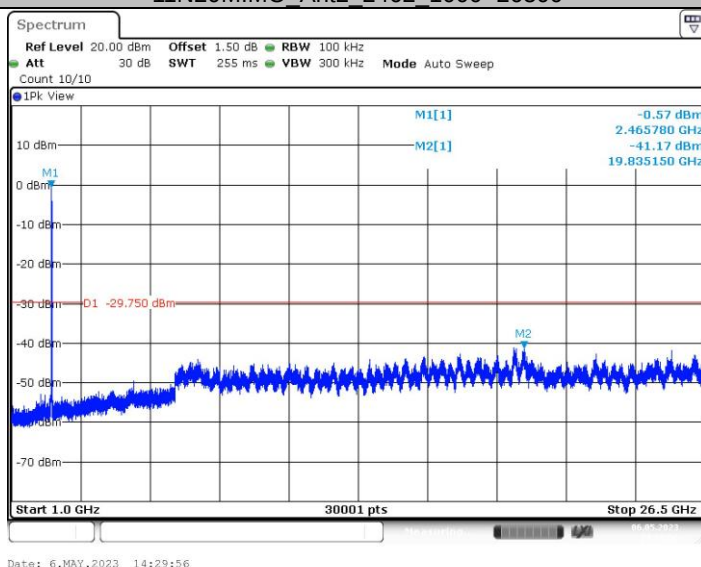
11N20MIMO_Ant2_2462_0-Reference



11N20MIMO_Ant2_2462_30~1000



11N20MIMO_Ant2_2462_1000~26500



11N40MIMO_Ant1_2422_0~Reference

CTC Laboratories, Inc.

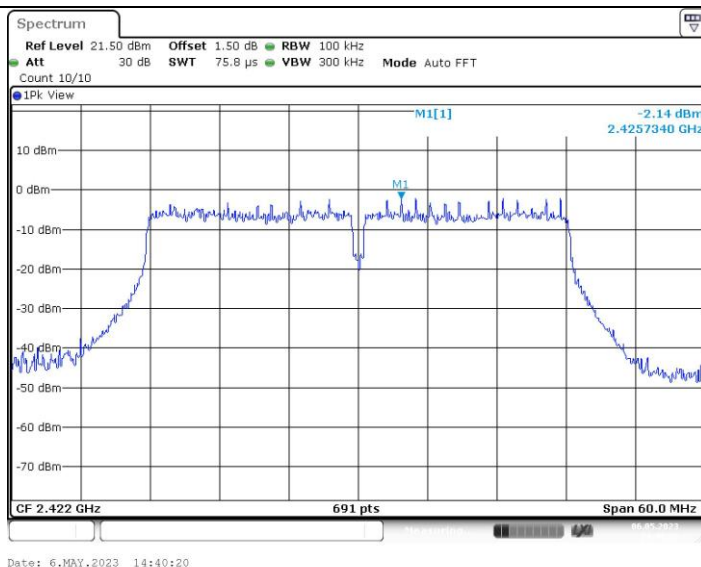
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

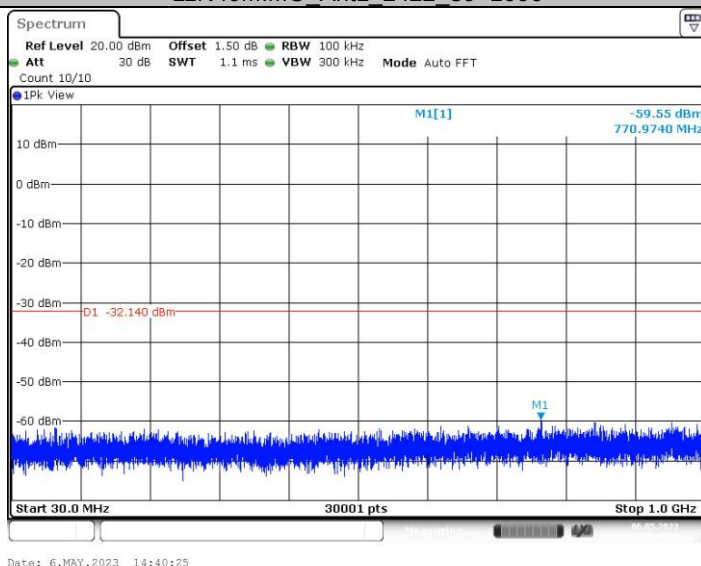
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

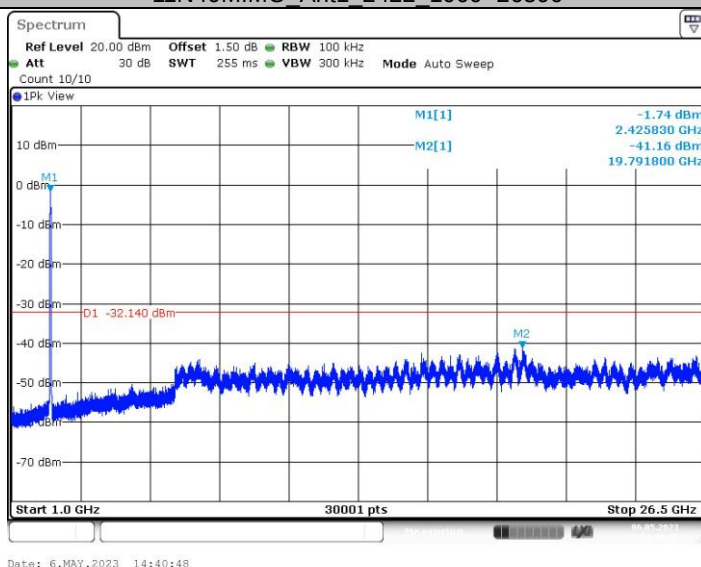
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11N40MIMO_Ant1_2422_30-1000



11N40MIMO_Ant1_2422_1000-26500



11N40MIMO_Ant2_2422_0-Reference

CTC Laboratories, Inc.

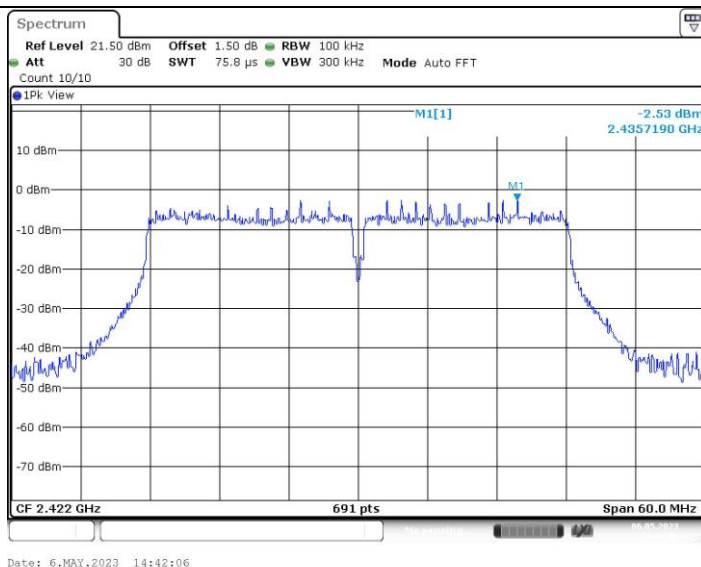
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

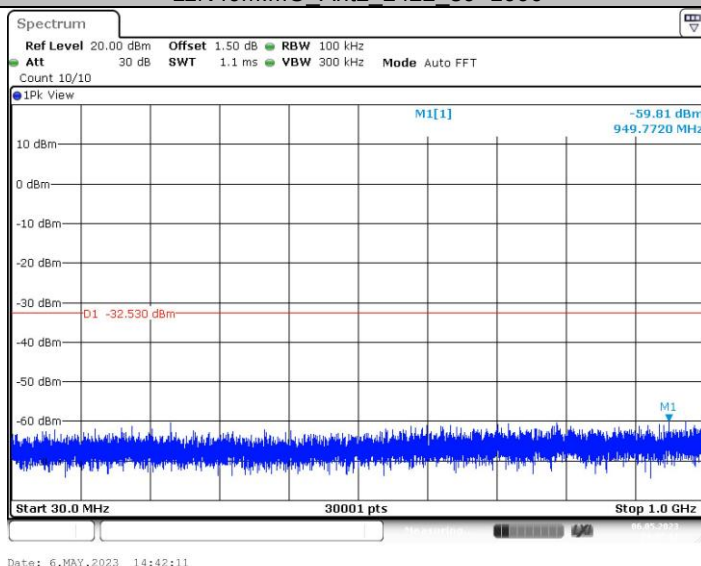
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

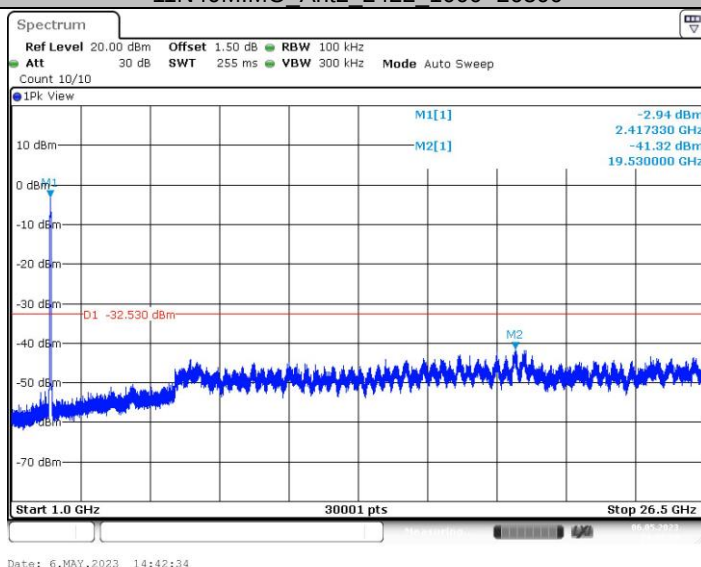
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11N40MIMO_Ant2_2422_30-1000



11N40MIMO_Ant2_2422_1000-26500



11N40MIMO_Ant1_2437_0-Reference

CTC Laboratories, Inc.

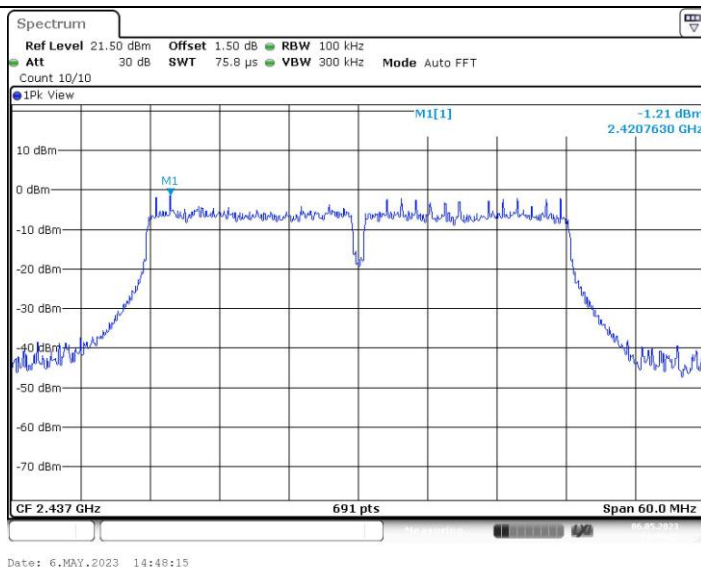
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

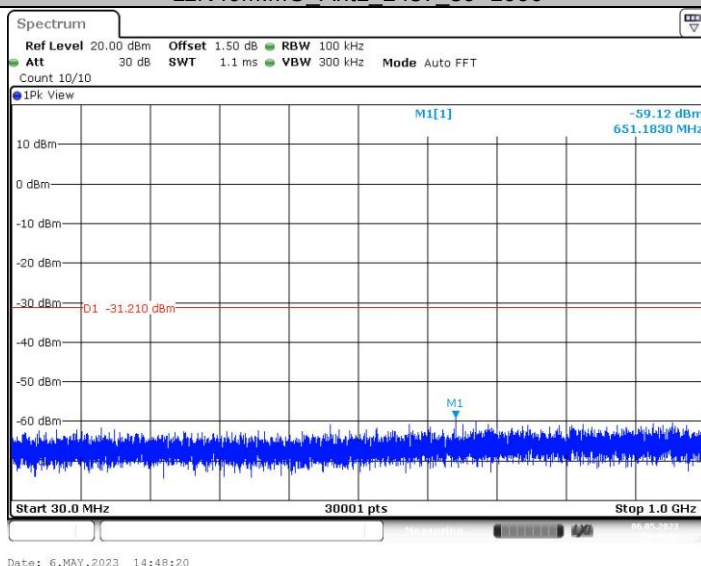
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

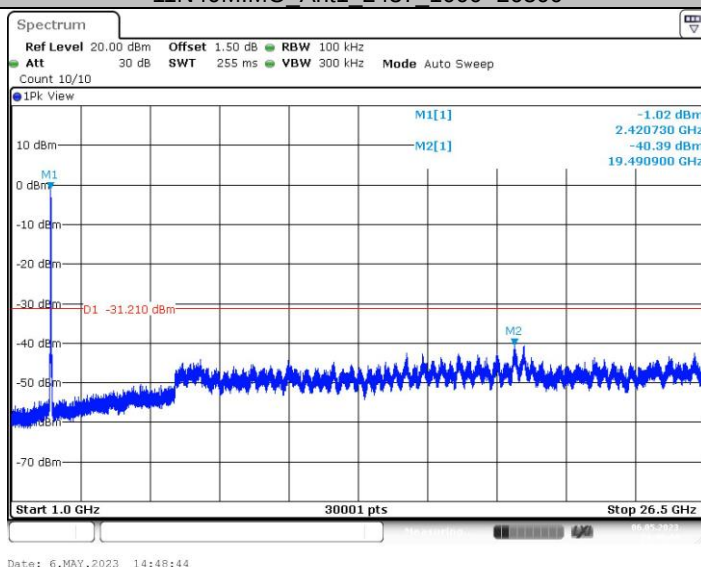
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



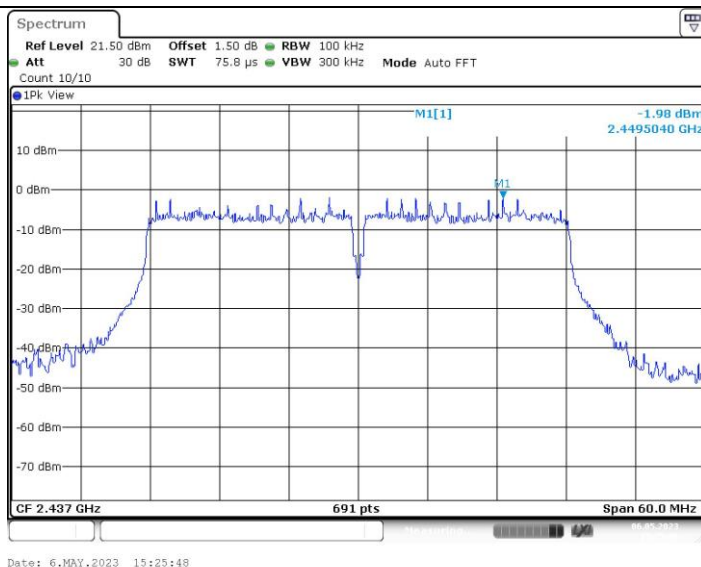
11N40MIMO_Ant1_2437_30-1000



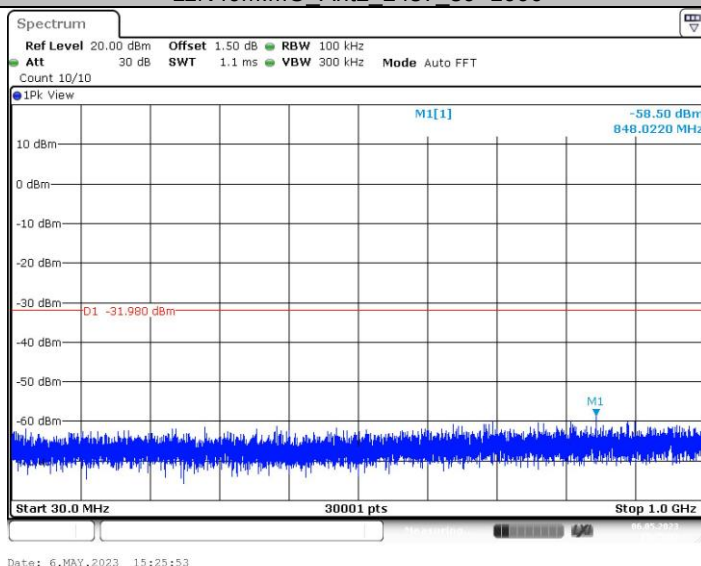
11N40MIMO_Ant1_2437_1000-26500



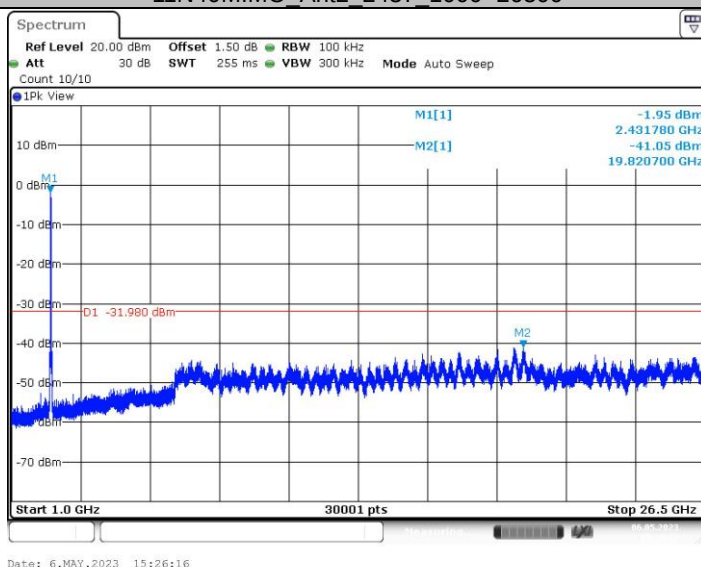
11N40MIMO_Ant2_2437_0-Reference



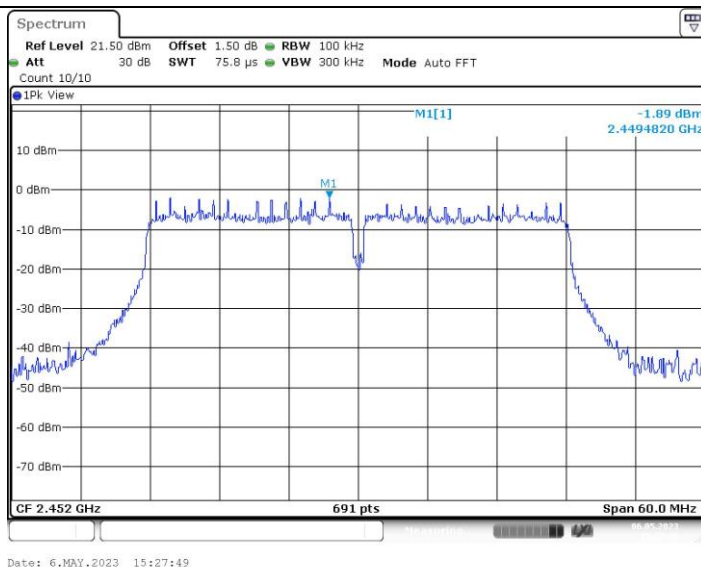
11N40MIMO_Ant2_2437_30-1000



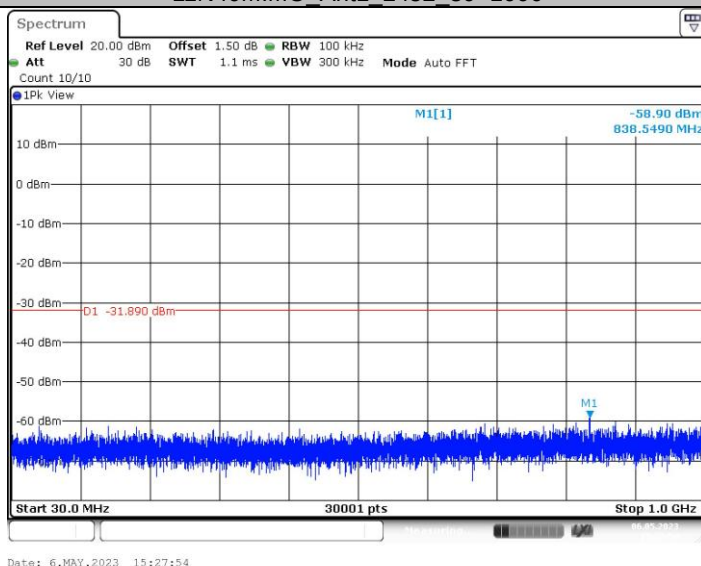
11N40MIMO_Ant2_2437_1000-26500



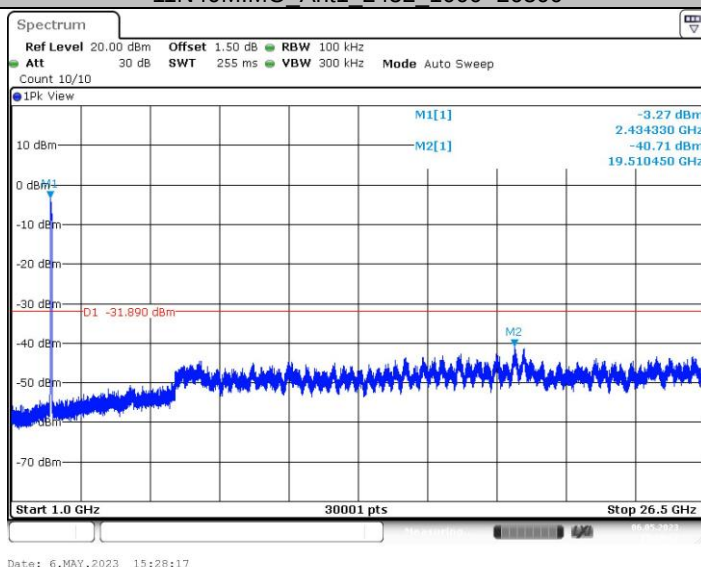
11N40MIMO_Ant1_2452_0-Reference



11N40MIMO_Ant1_2452_30~1000



11N40MIMO_Ant1_2452_1000~26500



11N40MIMO_Ant2_2452_0~Reference

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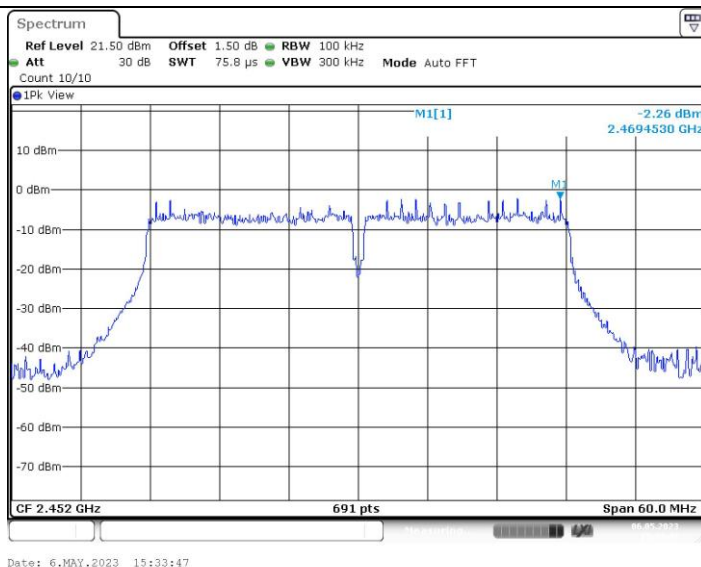
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

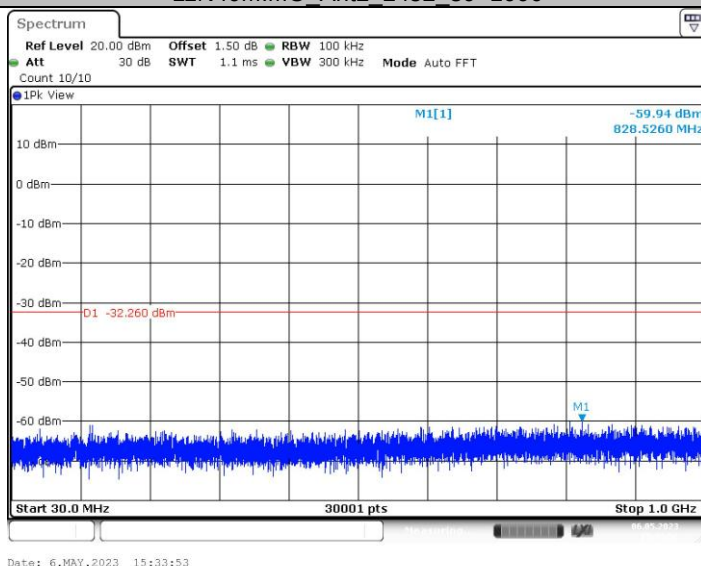
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

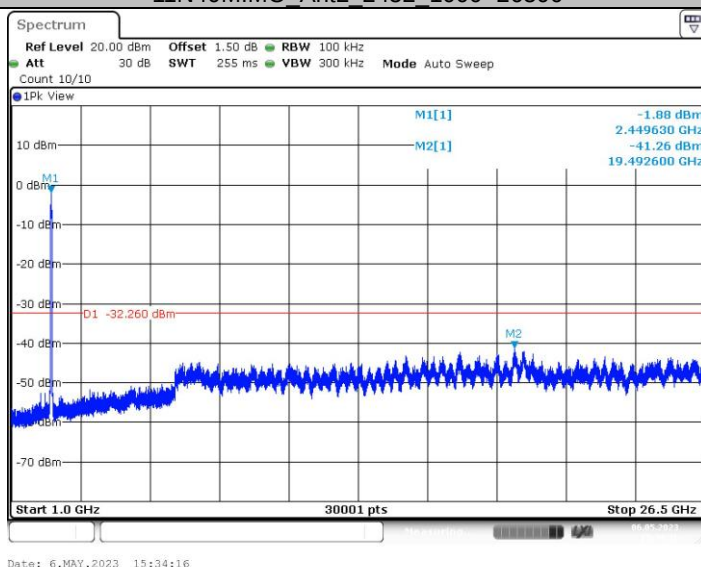
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11N40MIMO_Ant2_2452_30-1000



11N40MIMO_Ant2_2452_1000-26500



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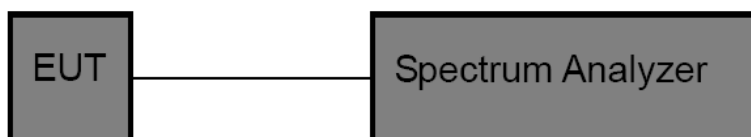
3.5. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

5. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
6. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

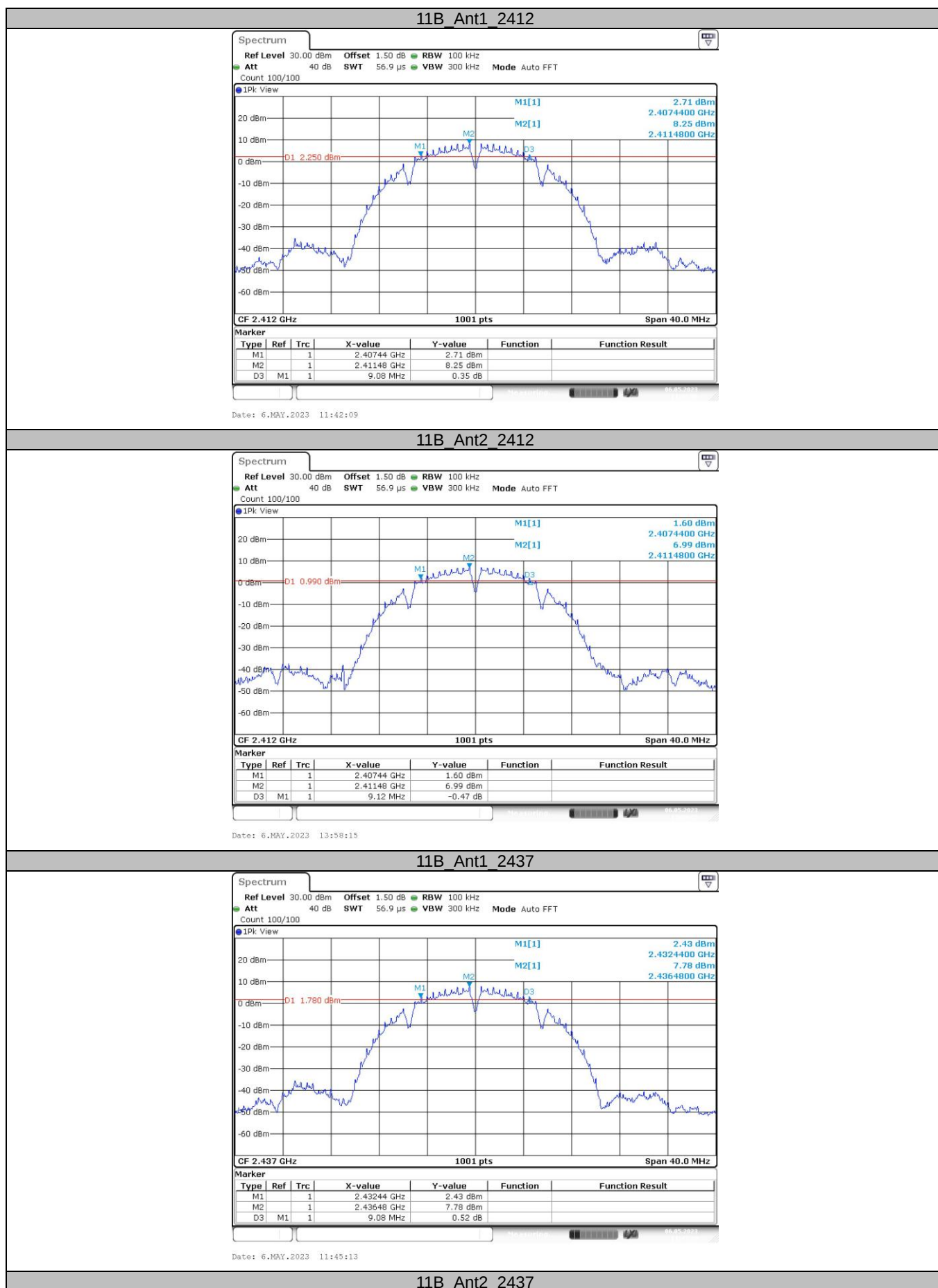
Please refer to the clause 2.4.

**Test Results****DTS Bandwidth Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.44	2416.52	0.5	PASS
	Ant2	2412	9.12	2407.44	2416.56	0.5	PASS
	Ant1	2437	9.08	2432.44	2441.52	0.5	PASS
	Ant2	2437	9.08	2432.44	2441.52	0.5	PASS
	Ant1	2462	9.08	2457.44	2466.52	0.5	PASS
	Ant2	2462	9.08	2457.44	2466.52	0.5	PASS
11G	Ant1	2412	16.28	2403.84	2420.12	0.5	PASS
	Ant2	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant1	2437	16.28	2428.84	2445.12	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant1	2462	16.28	2453.84	2470.12	0.5	PASS
	Ant2	2462	16.32	2453.84	2470.16	0.5	PASS
11N20MIMO	Ant1	2412	17.28	2403.24	2420.52	0.5	PASS
	Ant2	2412	16.96	2403.56	2420.52	0.5	PASS
	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant2	2437	16.56	2428.60	2445.16	0.5	PASS
	Ant1	2462	16.96	2453.56	2470.52	0.5	PASS
	Ant2	2462	16.92	2453.60	2470.52	0.5	PASS
11N40MIMO	Ant1	2422	36.08	2403.84	2439.92	0.5	PASS
	Ant2	2422	36.08	2403.84	2439.92	0.5	PASS
	Ant1	2437	36.08	2418.84	2454.92	0.5	PASS
	Ant2	2437	35.68	2419.08	2454.76	0.5	PASS
	Ant1	2452	35.52	2434.08	2469.60	0.5	PASS
	Ant2	2452	36.32	2433.84	2470.16	0.5	PASS

**Occupied Channel Bandwidth Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.586	2405.127	2418.713	---	PASS
	Ant2	2412	13.387	2405.287	2418.673	---	PASS
	Ant1	2437	13.786	2430.127	2443.913	---	PASS
	Ant2	2437	13.427	2430.287	2443.713	---	PASS
	Ant1	2462	13.546	2455.207	2468.753	---	PASS
	Ant2	2462	13.467	2455.247	2468.713	---	PASS
11G	Ant1	2412	17.103	2403.409	2420.511	---	PASS
	Ant2	2412	17.223	2403.409	2420.631	---	PASS
	Ant1	2437	16.983	2428.568	2445.551	---	PASS
	Ant2	2437	17.263	2428.409	2445.671	---	PASS
	Ant1	2462	17.303	2453.409	2470.711	---	PASS
	Ant2	2462	17.183	2453.409	2470.591	---	PASS
11N20MIMO	Ant1	2412	18.102	2402.929	2421.031	---	PASS
	Ant2	2412	18.022	2402.929	2420.951	---	PASS
	Ant1	2437	18.102	2427.929	2446.031	---	PASS
	Ant2	2437	17.982	2427.969	2445.951	---	PASS
	Ant1	2462	18.102	2452.929	2471.031	---	PASS
	Ant2	2462	17.982	2453.009	2470.991	---	PASS
11N40MIMO	Ant1	2422	36.923	2403.618	2440.541	---	PASS
	Ant2	2422	37.163	2403.538	2440.701	---	PASS
	Ant1	2437	37.083	2418.379	2455.462	---	PASS
	Ant2	2437	36.603	2418.778	2455.382	---	PASS
	Ant1	2452	36.523	2433.618	2470.142	---	PASS
	Ant2	2452	36.923	2433.618	2470.541	---	PASS

**DTS Bandwidth Test Graphs**

CTC Laboratories, Inc.

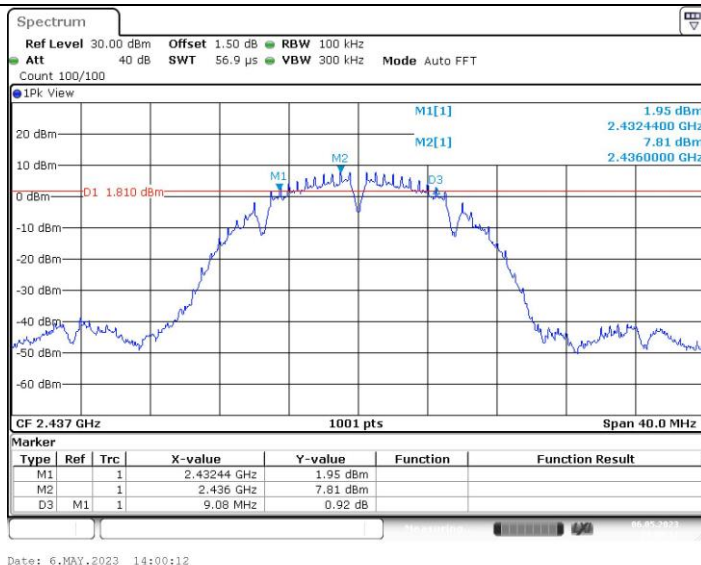
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

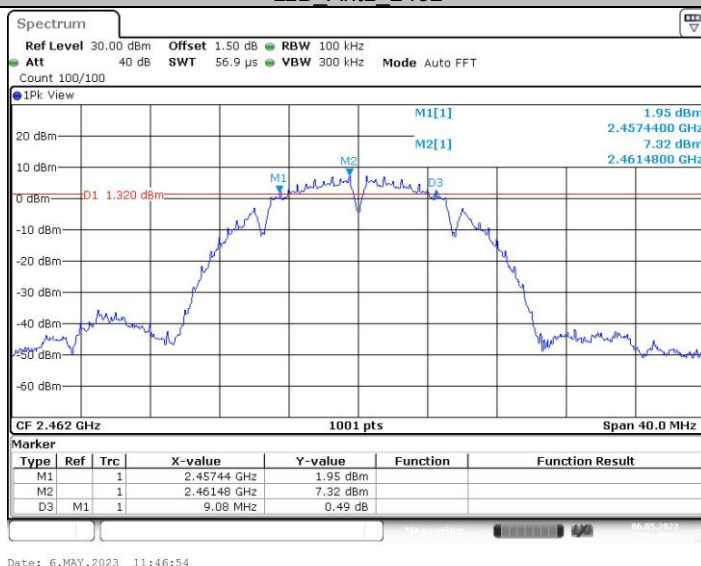
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

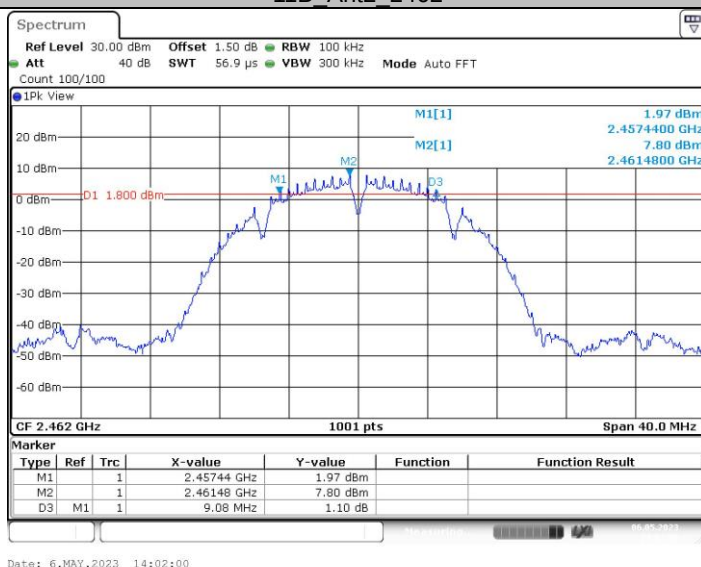
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412

CTC Laboratories, Inc.

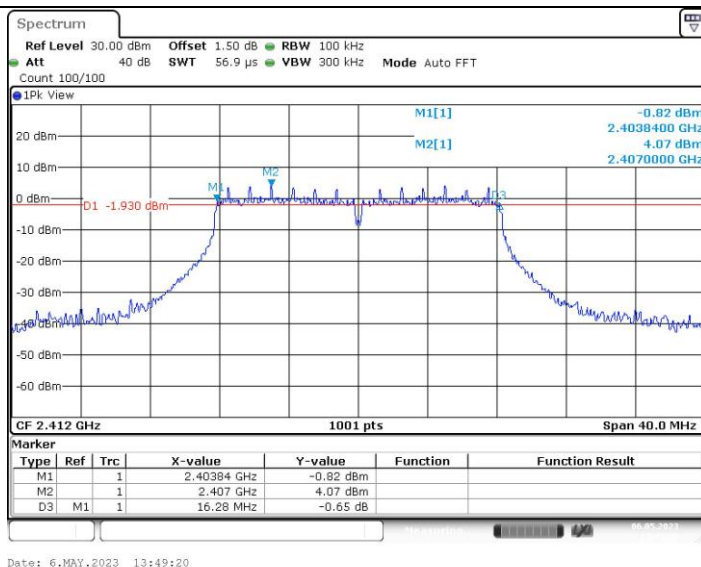
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

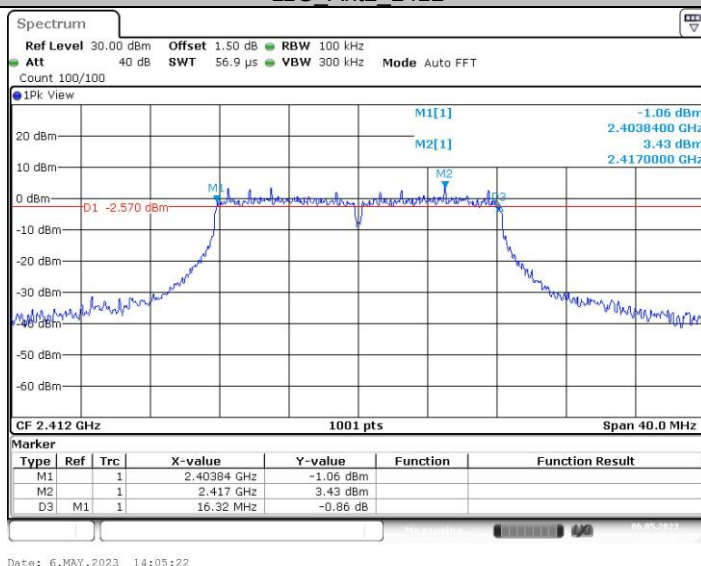
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

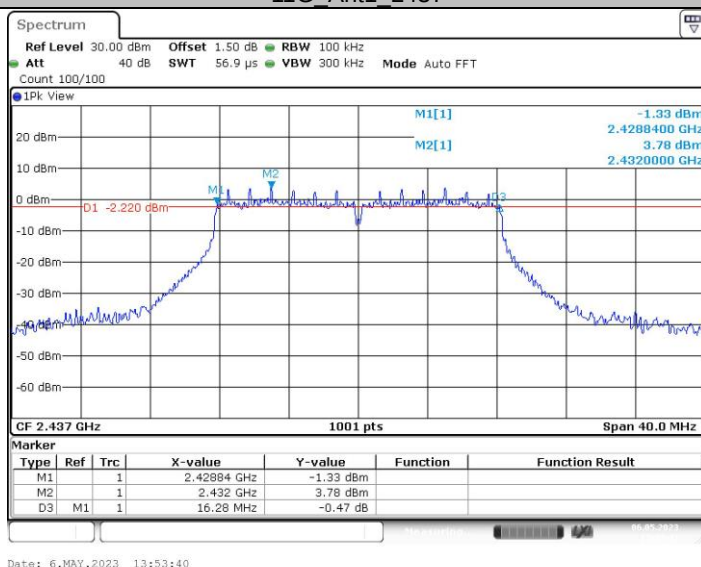
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

CTC Laboratories, Inc.

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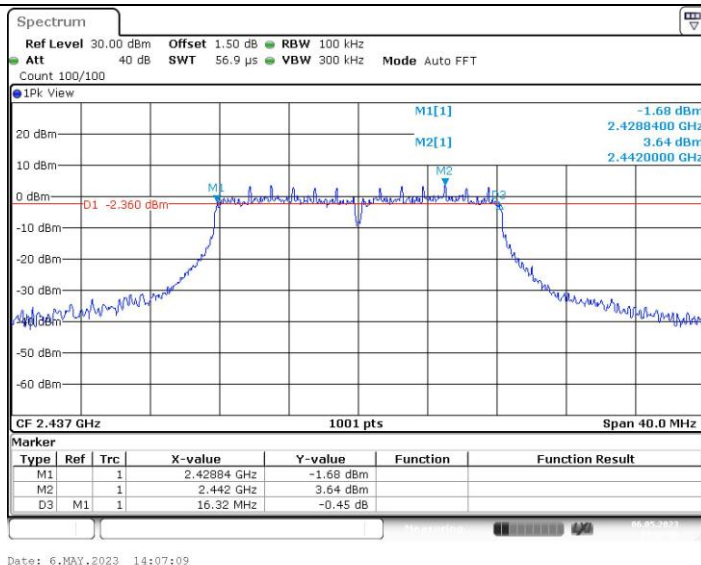
Tel.: (86)755-27521059

Fax: (86)755-27521011

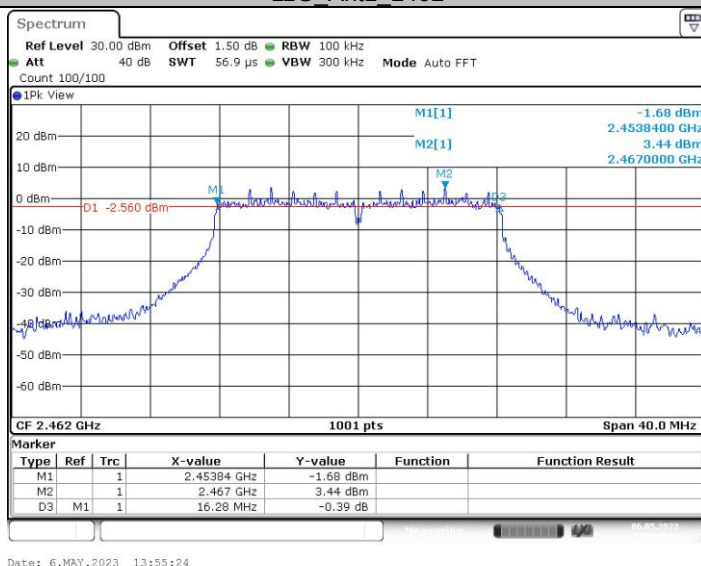
Http://www.sz-ctc.org.cn



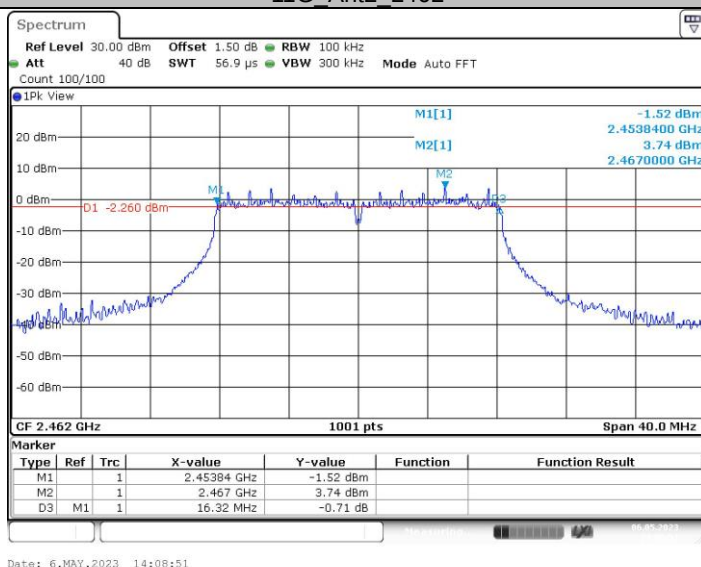
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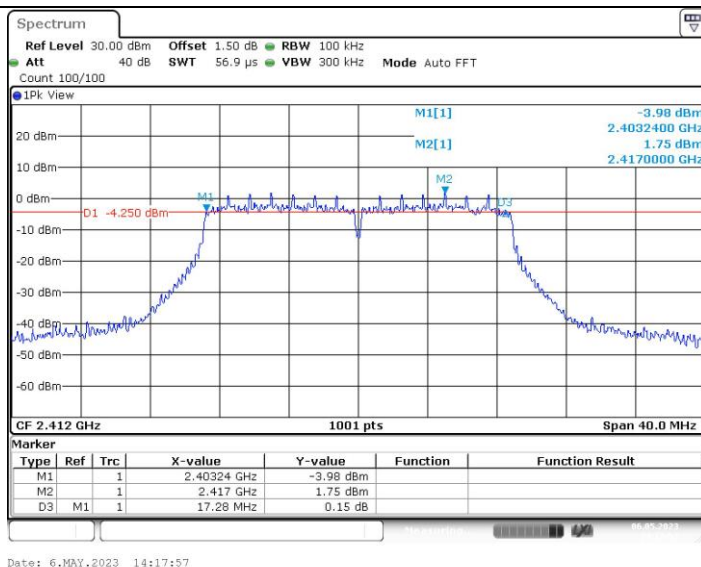
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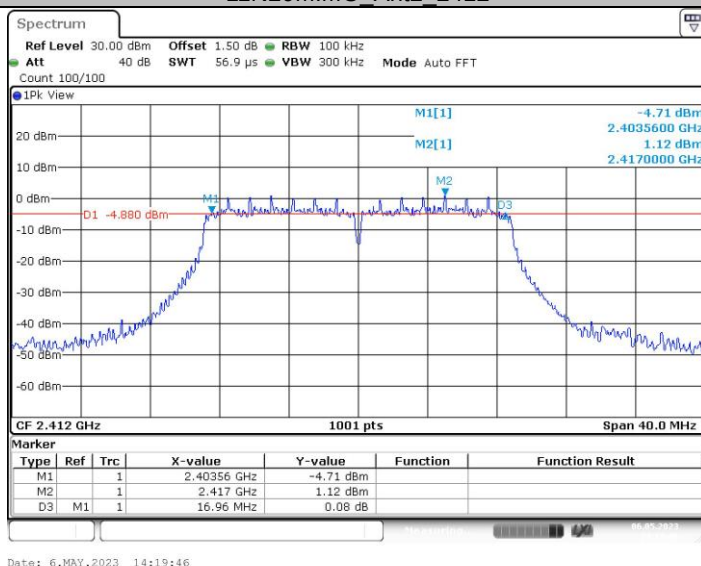
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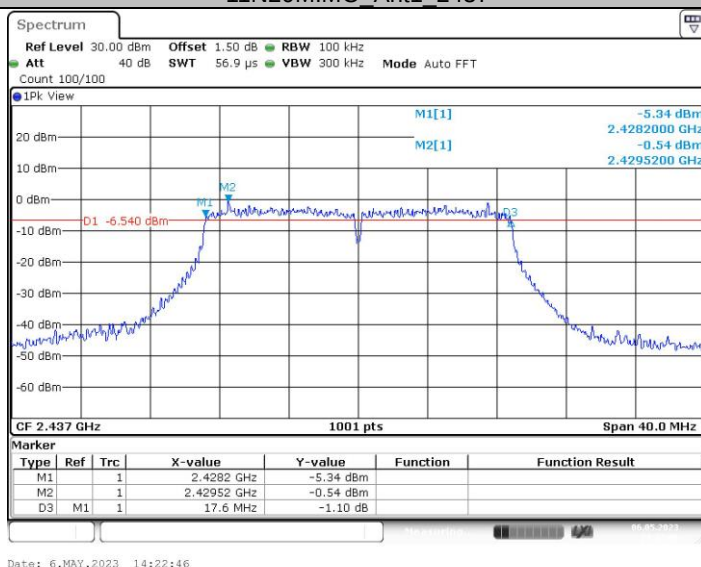
11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437

CTC Laboratories, Inc.

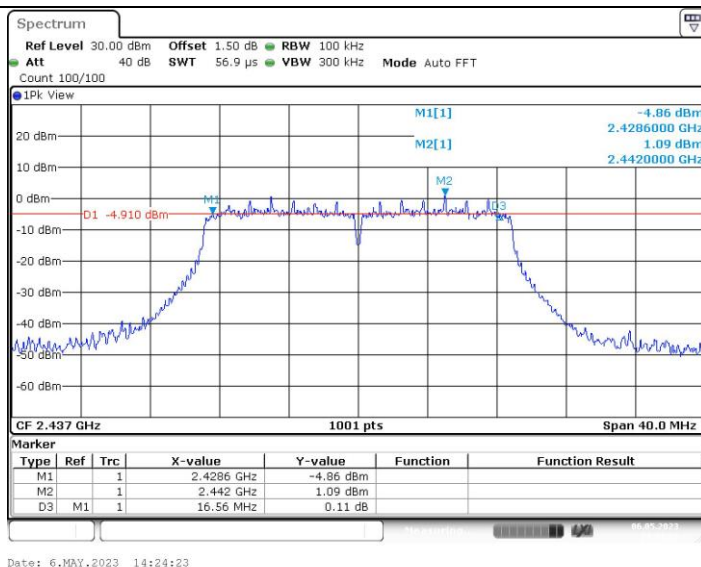
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

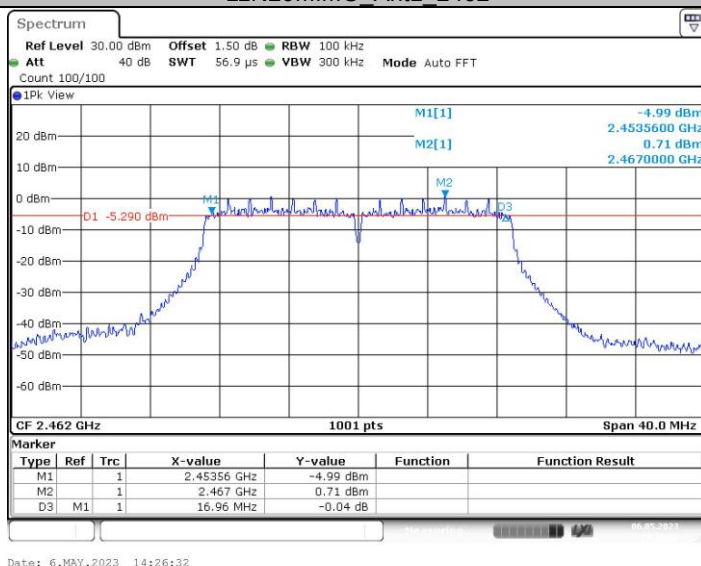
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

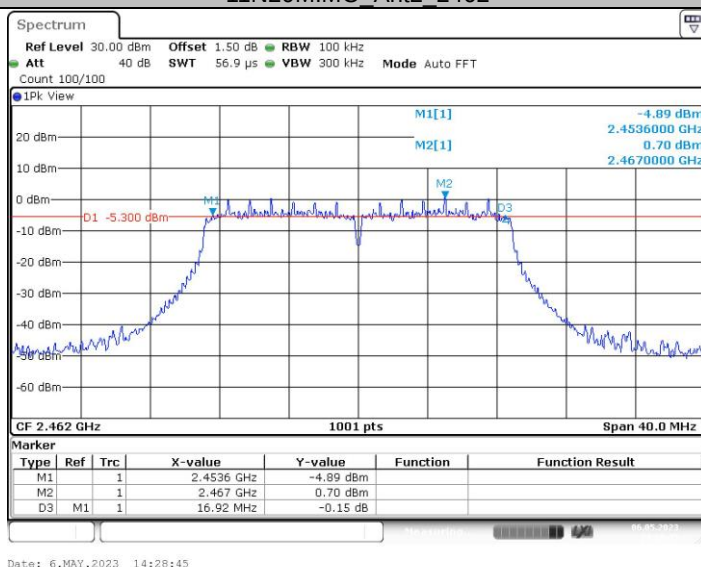
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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422

CTC Laboratories, Inc.

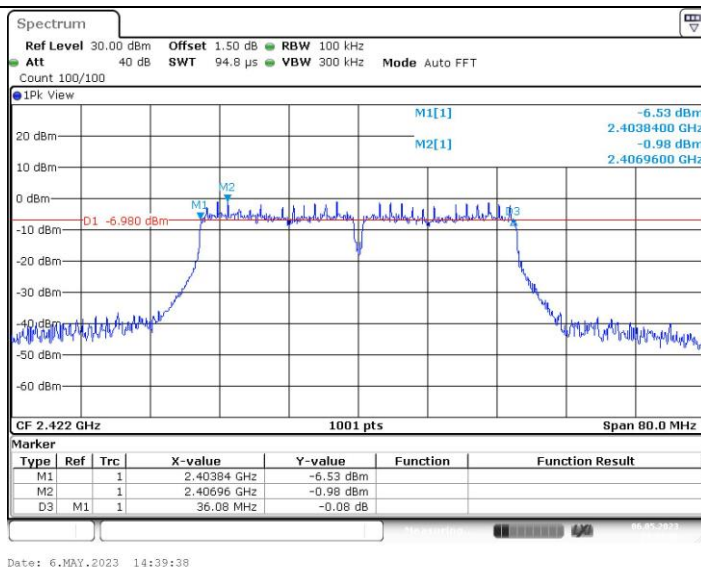
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

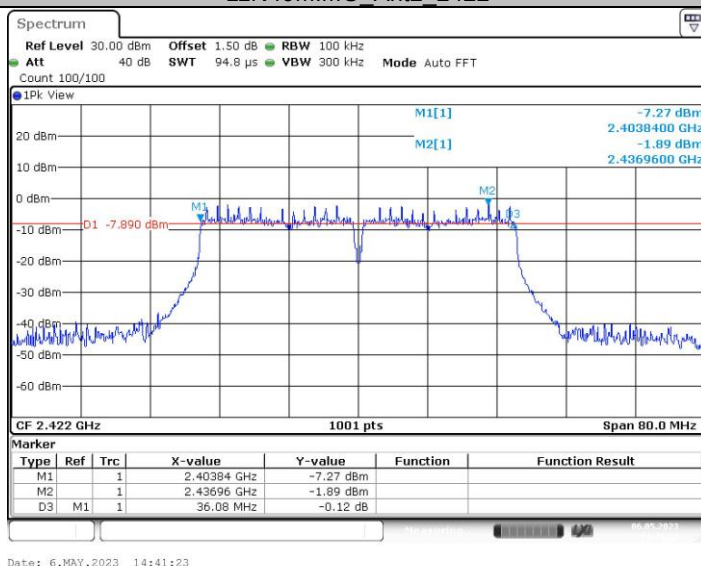
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

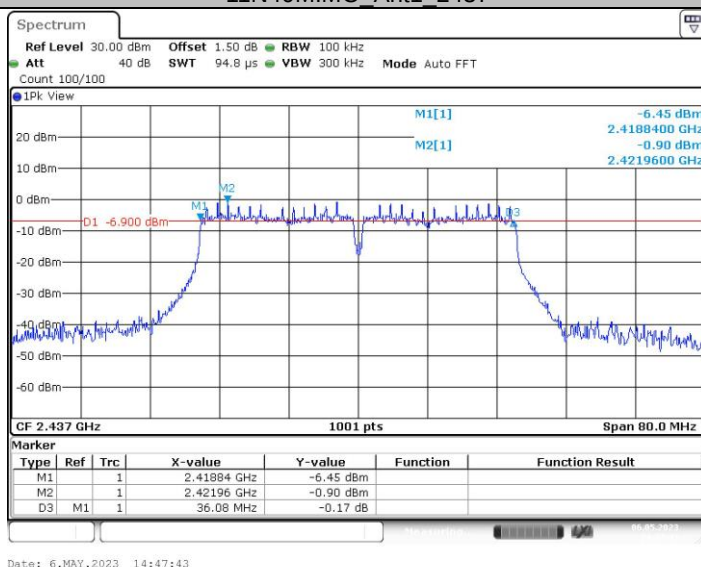
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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437

CTC Laboratories, Inc.

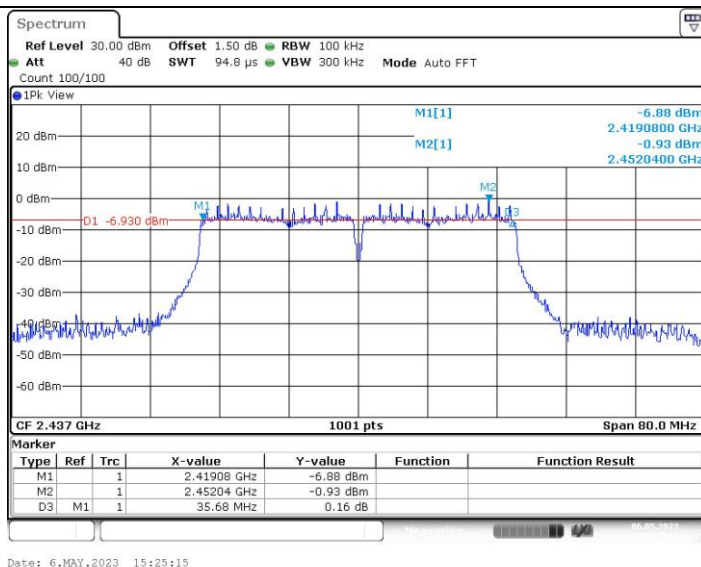
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

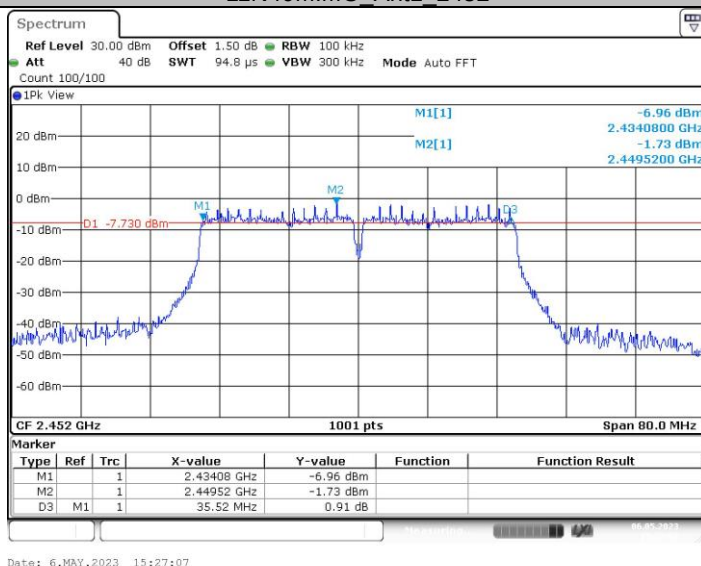
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

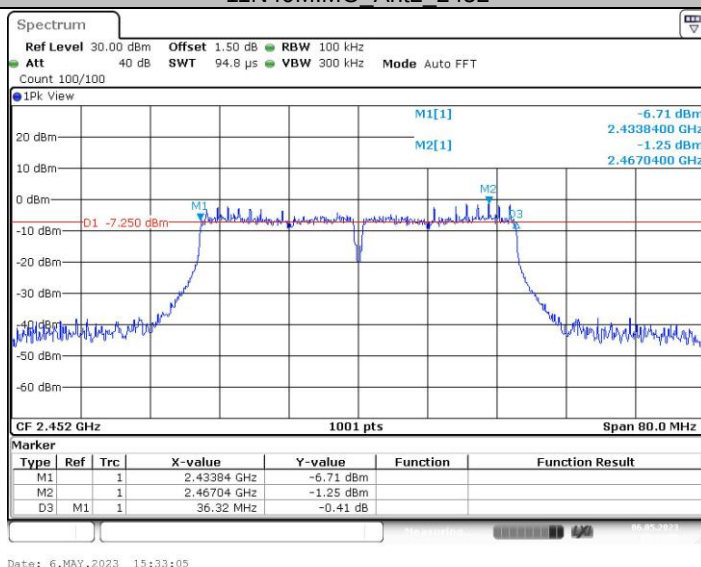
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11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



CTC Laboratories, Inc.

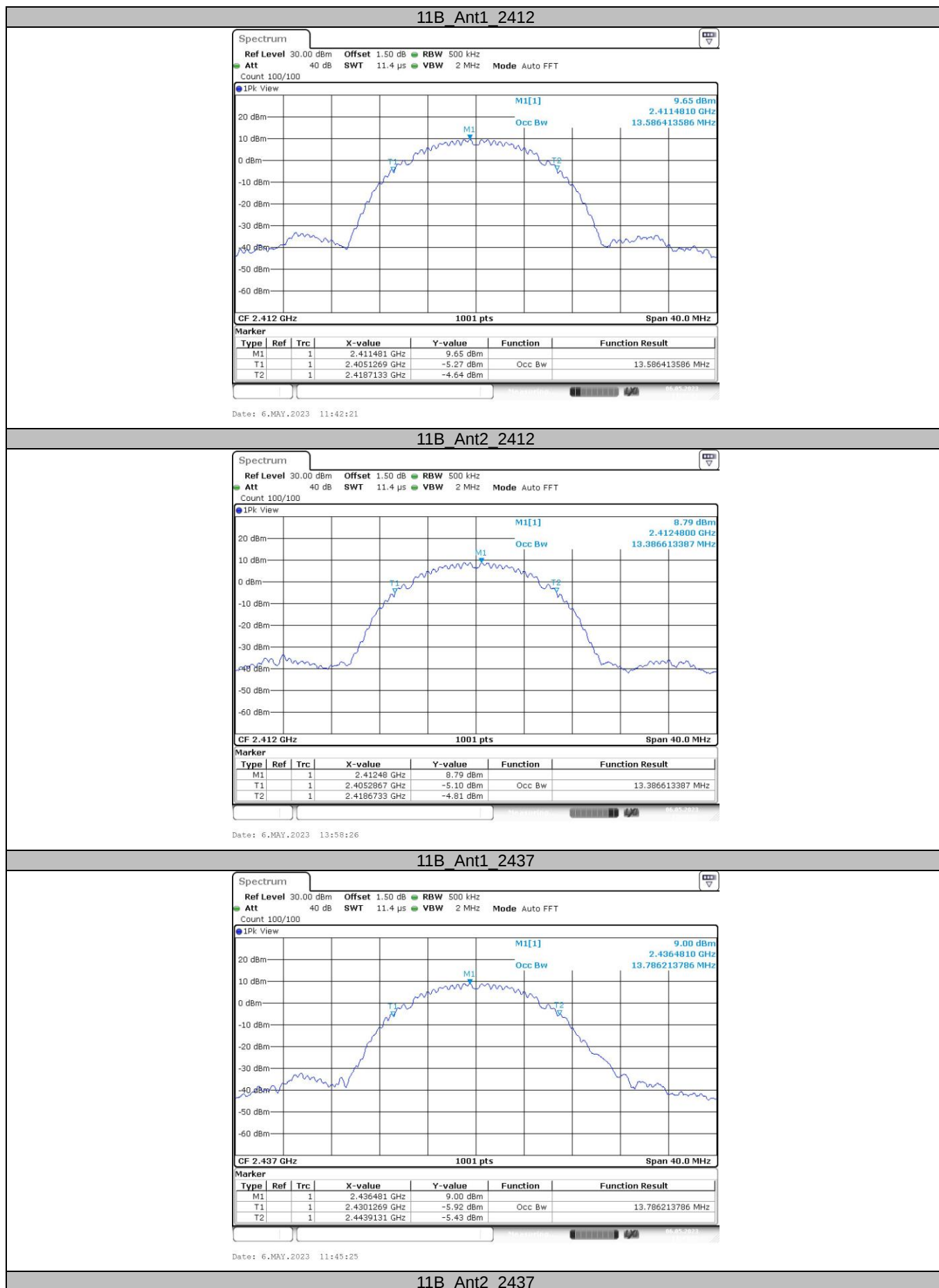
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

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**Occupied Channel Bandwidth Test Result**

CTC Laboratories, Inc.

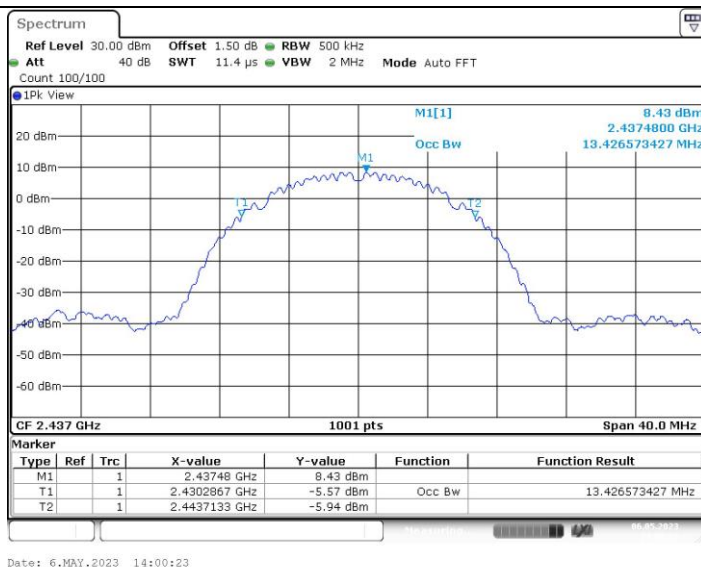
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

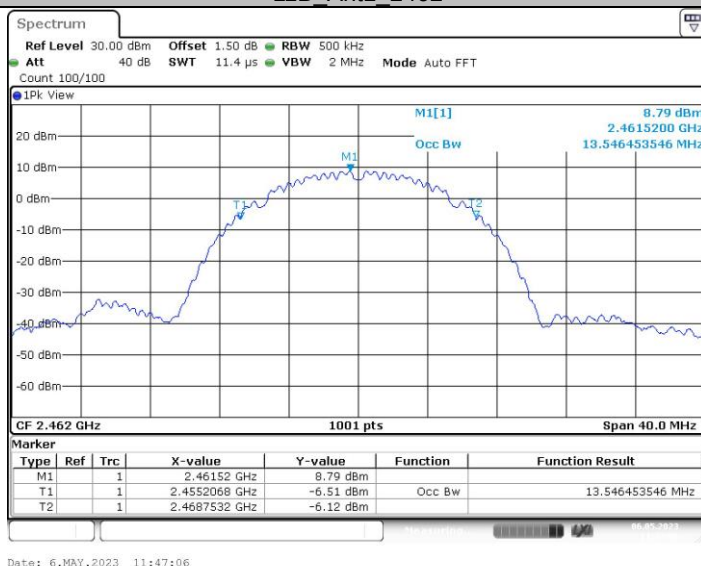
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

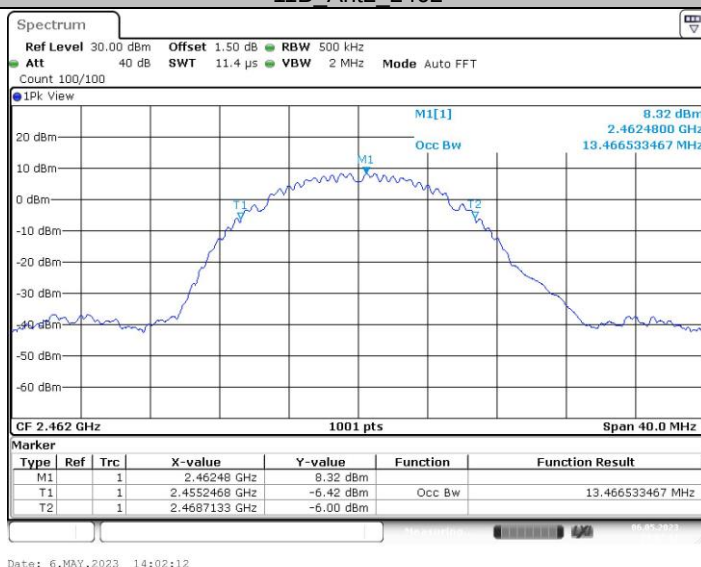
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11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412

CTC Laboratories, Inc.

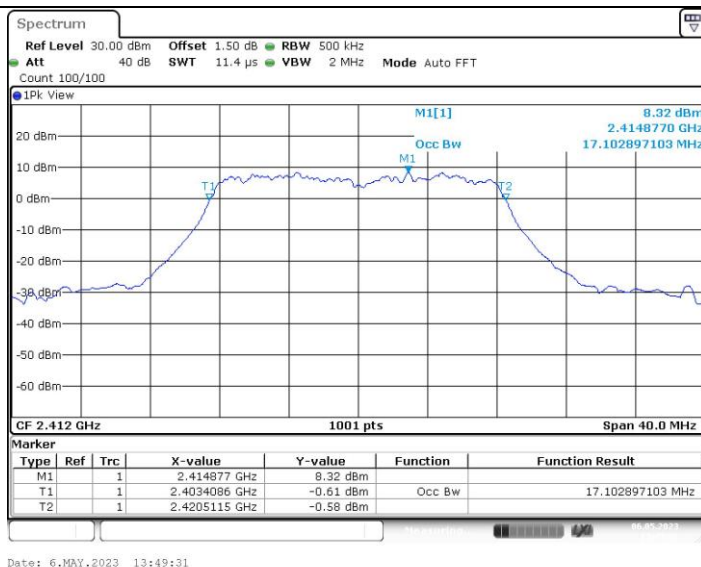
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

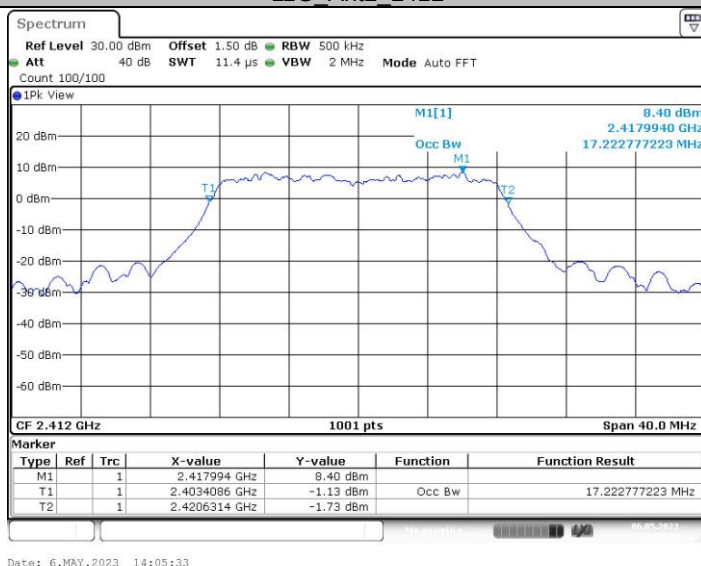
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

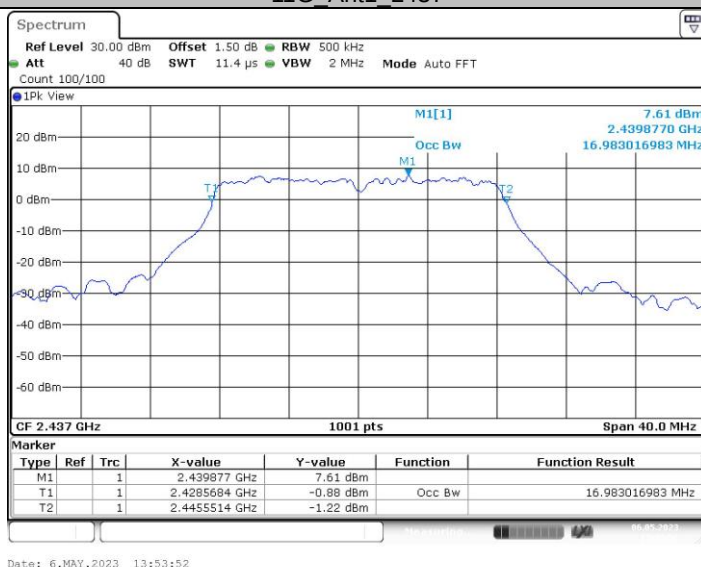
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

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