

## Appendix Test Data

Report No.:	18220WC20283801	Test Sample No.:	1-2-2
Start Test Date:	2022.12.13	Finish Test Date:	2023.2.9
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	50 %
Pressure:	1012 hPa		

## Appendix A: DTS Bandwidth

## Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	≥0.5	PASS
	Ant2	2412	9.560	2407.480	2417.040	≥0.5	PASS
	Ant1	2437	9.080	2432.480	2441.560	≥0.5	PASS
	Ant2	2437	9.080	2432.440	2441.520	≥0.5	PASS
	Ant1	2462	9.560	2457.000	2466.560	≥0.5	PASS
	Ant2	2462	9.040	2457.440	2466.480	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	≥0.5	PASS
	Ant1	2437	16.440	2428.760	2445.200	≥0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	≥0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	≥0.5	PASS
	Ant2	2462	16.360	2453.800	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
	Ant2	2412	17.600	2403.200	2420.800	≥0.5	PASS
	Ant1	2437	17.600	2428.200	2445.800	≥0.5	PASS
	Ant2	2437	17.600	2428.200	2445.800	≥0.5	PASS
	Ant1	2462	17.600	2453.200	2470.800	≥0.5	PASS
	Ant2	2462	17.560	2453.200	2470.760	≥0.5	PASS
11N40	Ant1	2422	35.460	2404.420	2439.880	≥0.5	PASS
	Ant2	2422	35.820	2404.060	2439.880	≥0.5	PASS
	Ant1	2437	35.460	2419.120	2454.580	≥0.5	PASS
	Ant2	2437	35.700	2418.880	2454.580	≥0.5	PASS
	Ant1	2452	35.700	2433.880	2469.580	≥0.5	PASS
	Ant2	2452	35.700	2433.880	2469.580	≥0.5	PASS

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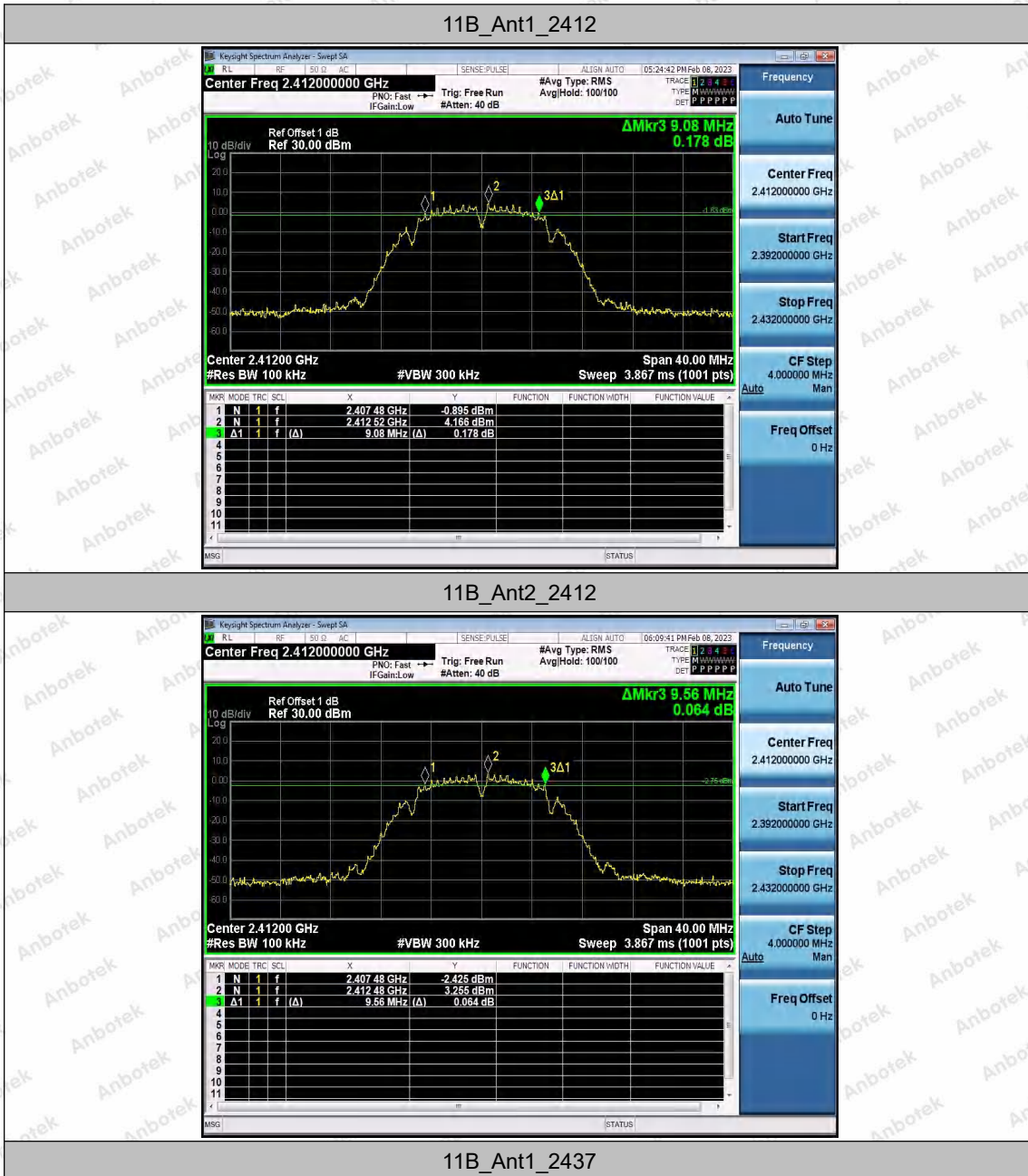
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## Test Graphs


**11B\_Ant2\_2412**

Frequency

Auto Tune

Center Freq 2.41200000 GHz

Start Freq 2.392000000 GHz

Stop Freq 2.432000000 GHz

CF Step 4.000000 MHz

Freq Offset 0 Hz

**11B\_Ant1\_2437**

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11B\_Ant2\_2437



11B\_Ant1\_2462

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11B\_Ant2\_2462



11G\_Ant1\_2412

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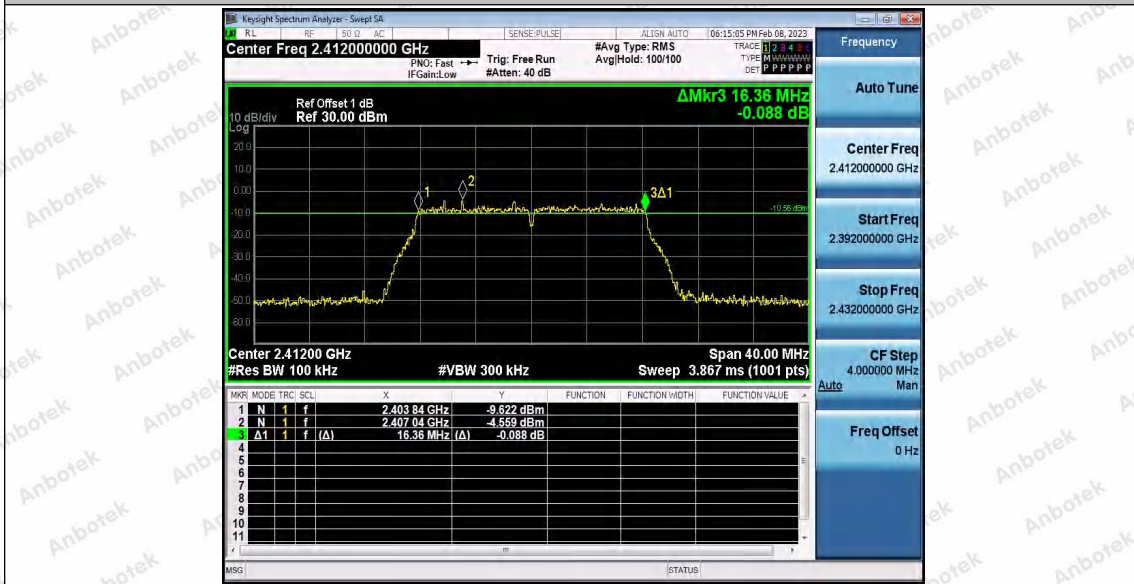
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11G\_Ant2\_2412



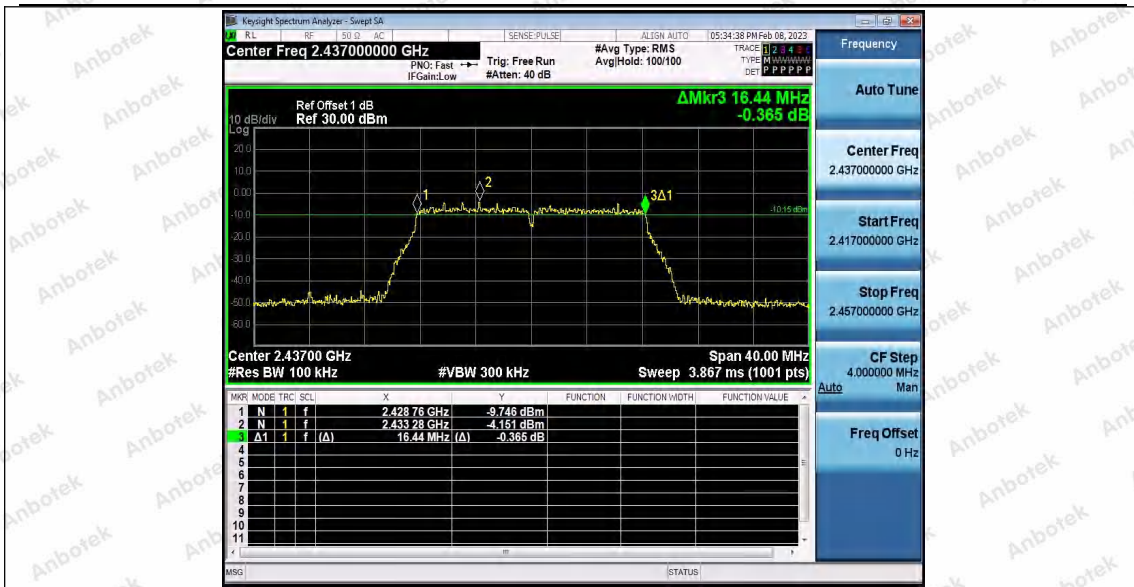
11G\_Ant1\_2437

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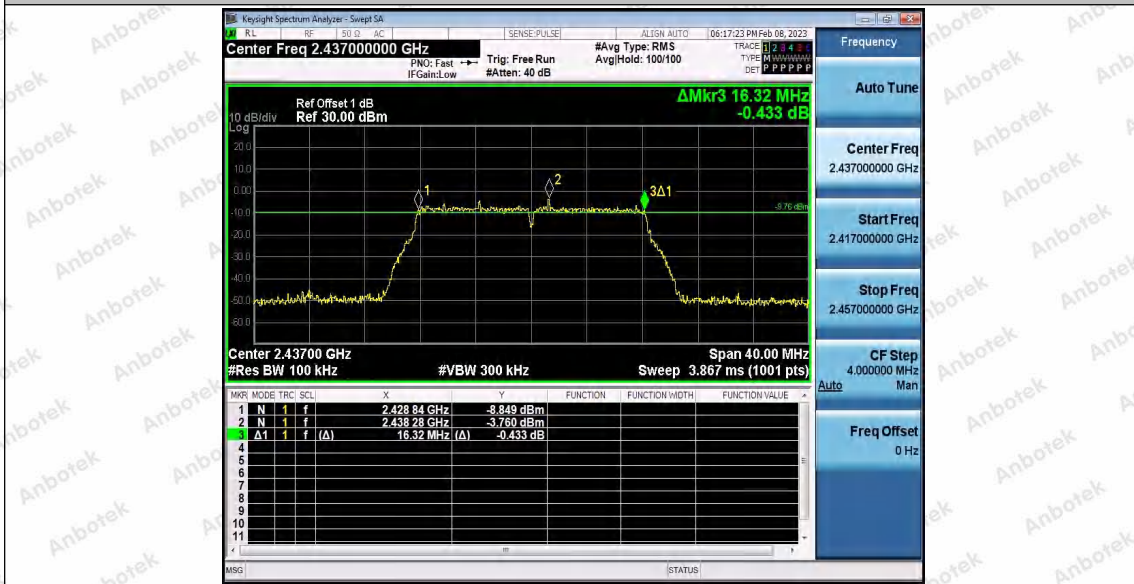
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11G\_Ant2\_2437



11G\_Ant1\_2462

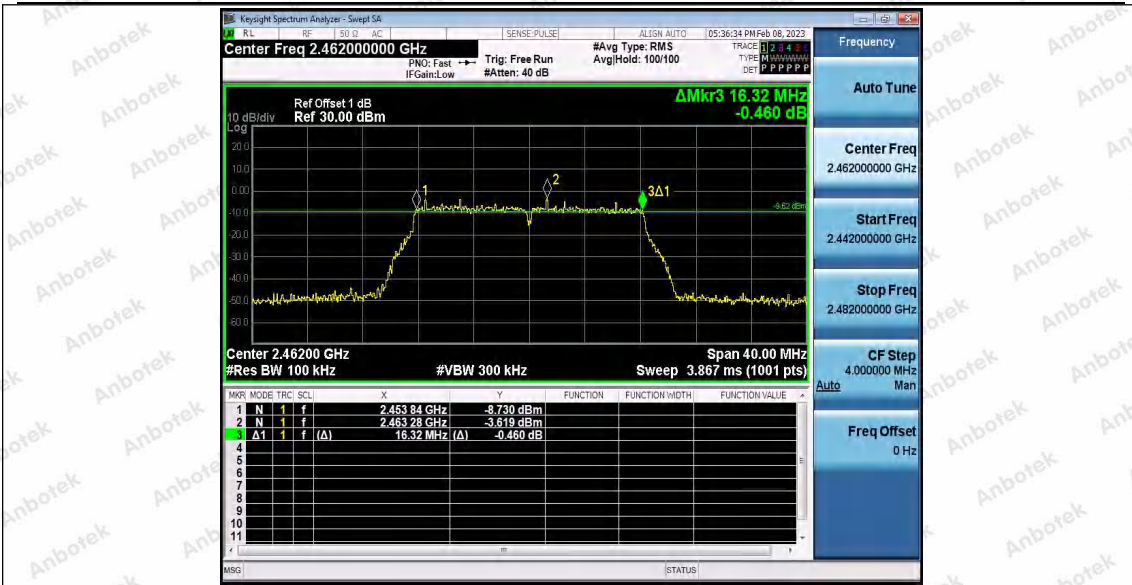
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11G\_Ant2\_2462



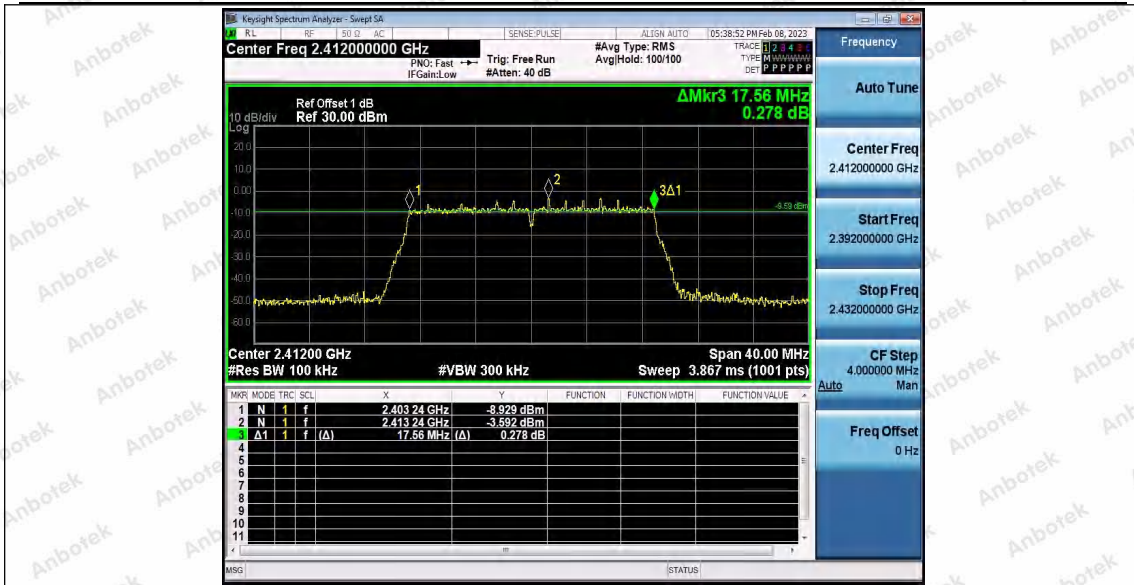
11N20\_Ant1\_2412

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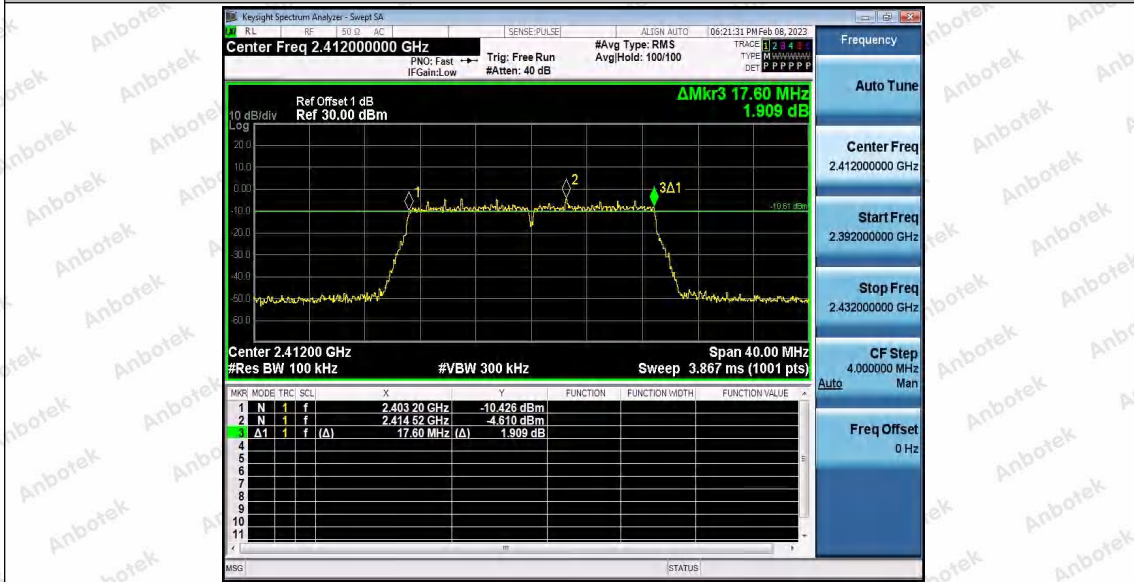
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20\_Ant2\_2412



11N20\_Ant1\_2437

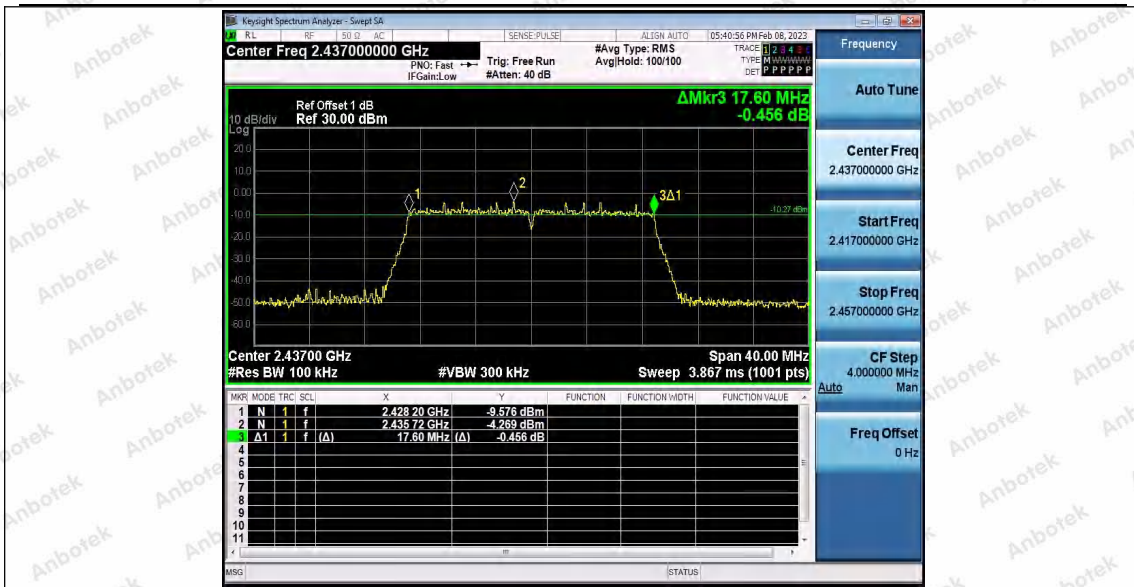
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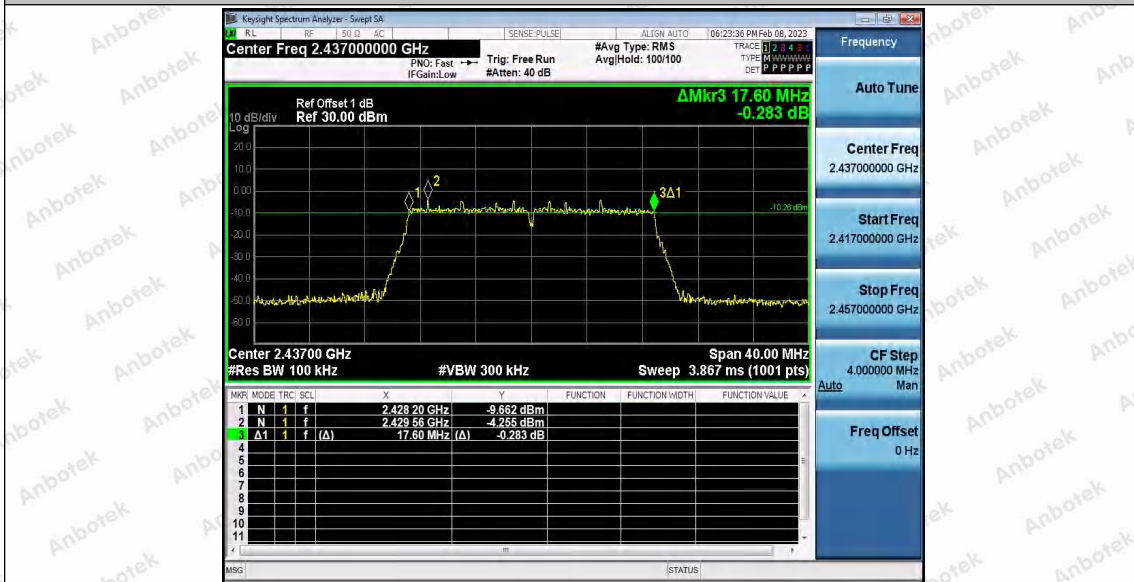
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11N20\_Ant2\_2437



11N20\_Ant1\_2462

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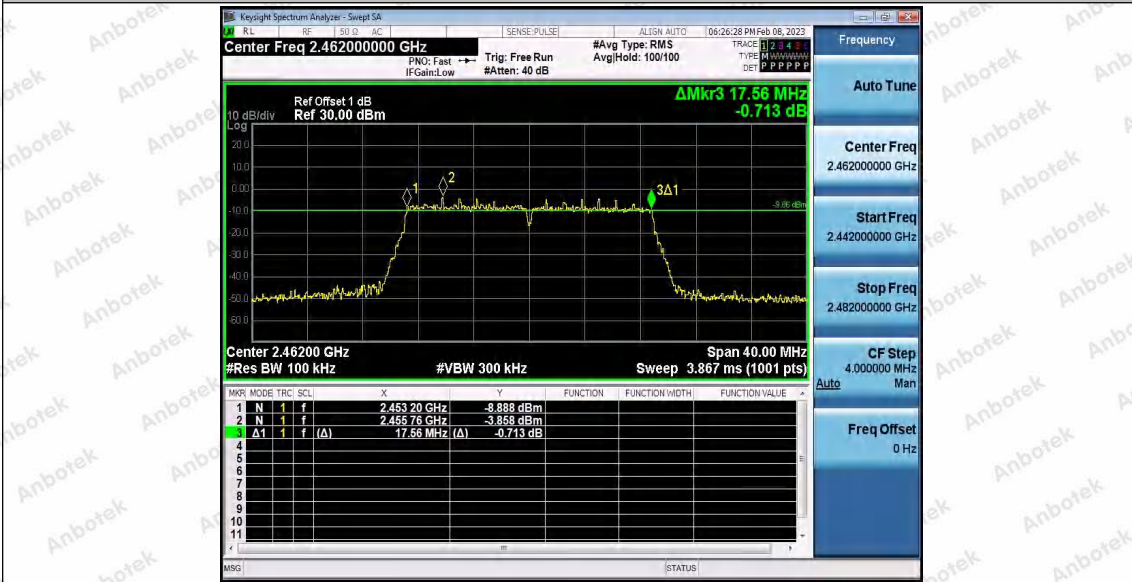
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20\_Ant2\_2462



11N40\_Ant1\_2422

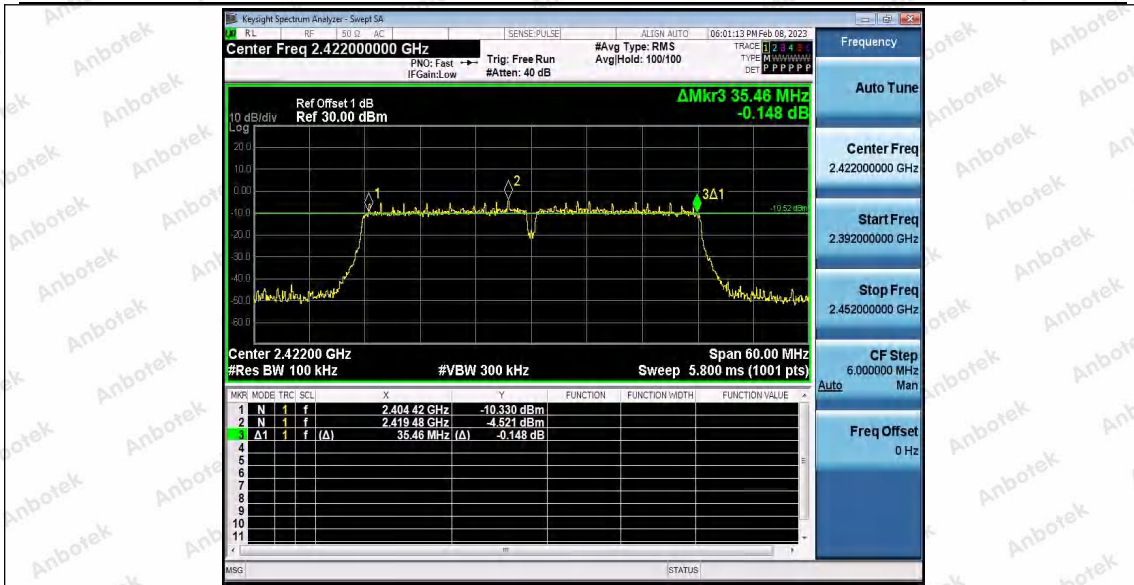
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11N40\_Ant2\_2422



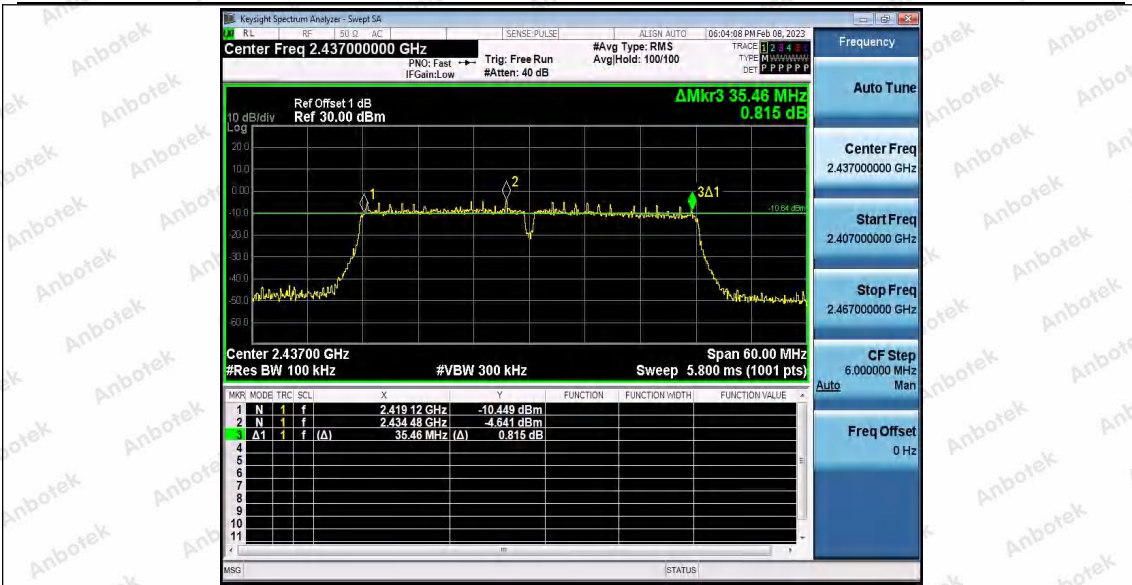
11N40\_Ant1\_2437

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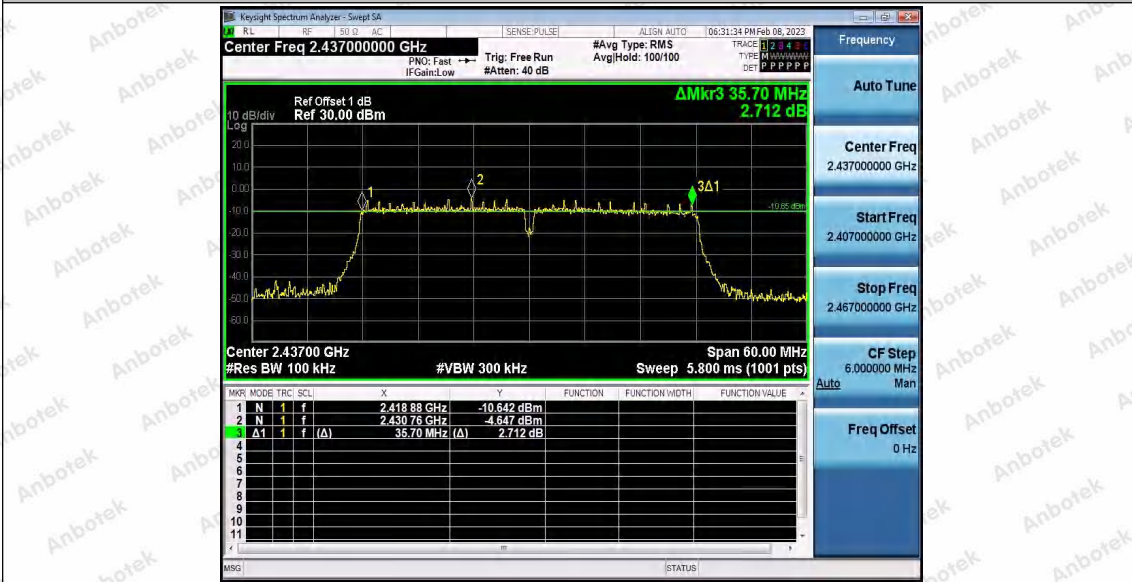
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11N40\_Ant2\_2437



11N40\_Ant1\_2452

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11N40\_Ant2\_2452



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## Appendix B: Occupied Channel Bandwidth

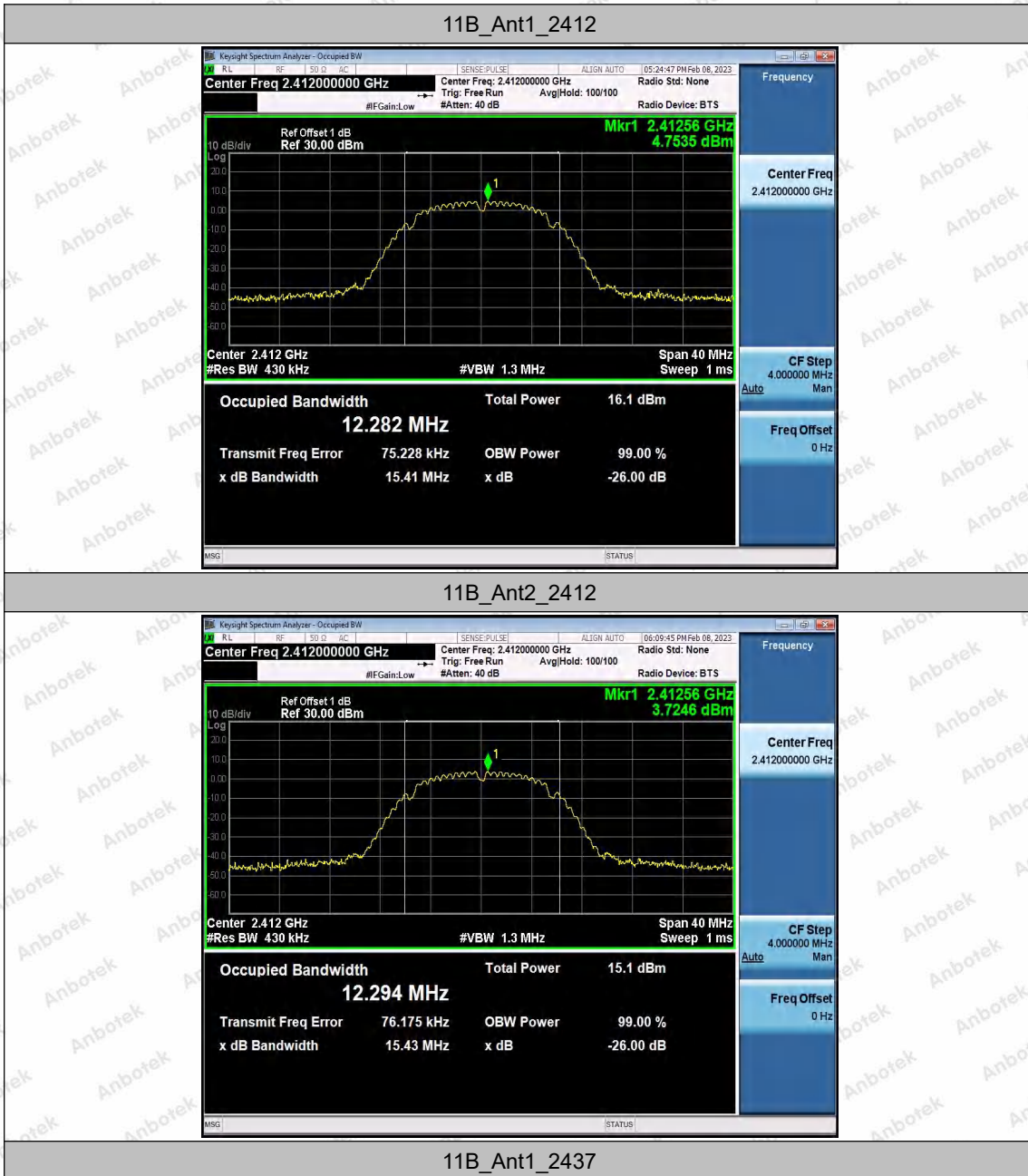
### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.282	2405.9342	2418.2162
	Ant2	2412	12.294	2405.9292	2418.2232
	Ant1	2437	12.300	2430.8479	2443.1479
	Ant2	2437	12.309	2430.8377	2443.1467
	Ant1	2462	12.340	2455.8210	2468.1610
	Ant2	2462	12.333	2455.8083	2468.1413
11G	Ant1	2412	17.035	2403.5407	2420.5757
	Ant2	2412	17.081	2403.5330	2420.6140
	Ant1	2437	17.053	2428.4550	2445.5080
	Ant2	2437	17.126	2428.4359	2445.5619
	Ant1	2462	17.168	2453.4145	2470.5825
	Ant2	2462	17.087	2453.4612	2470.5482
11N20	Ant1	2412	17.937	2403.1010	2421.0380
	Ant2	2412	17.985	2403.0700	2421.0550
	Ant1	2437	17.984	2427.9902	2445.9742
	Ant2	2437	17.944	2428.0372	2445.9812
	Ant1	2462	17.918	2453.0301	2470.9481
	Ant2	2462	17.966	2453.0145	2470.9805
11N40	Ant1	2422	36.099	2404.0122	2440.1112
	Ant2	2422	36.077	2404.0026	2440.0796
	Ant1	2437	36.143	2418.8941	2455.0371
	Ant2	2437	36.122	2418.9563	2455.0783
	Ant1	2452	36.141	2433.8564	2469.9974
	Ant2	2452	36.145	2433.8832	2470.0282





## Test Graphs



### Shenzhen Anbotek Compliance Laboratory Limited

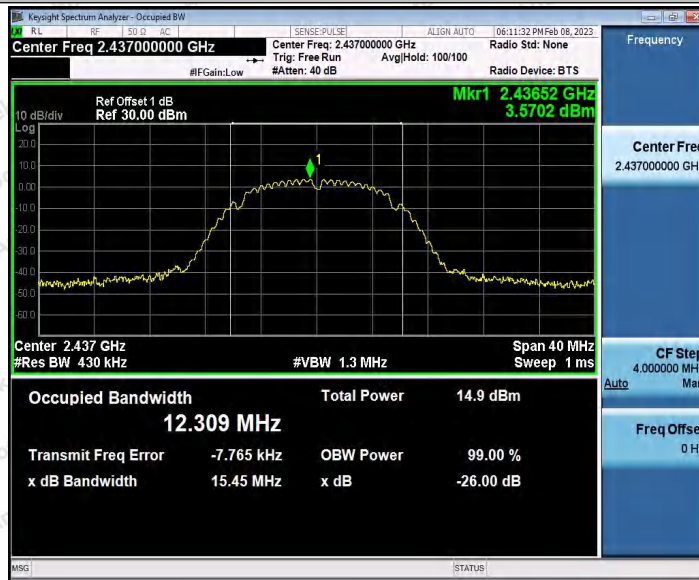
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11B\_Ant2\_2437



11B\_Ant1\_2462

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11B\_Ant2\_2462



11G\_Ant1\_2412

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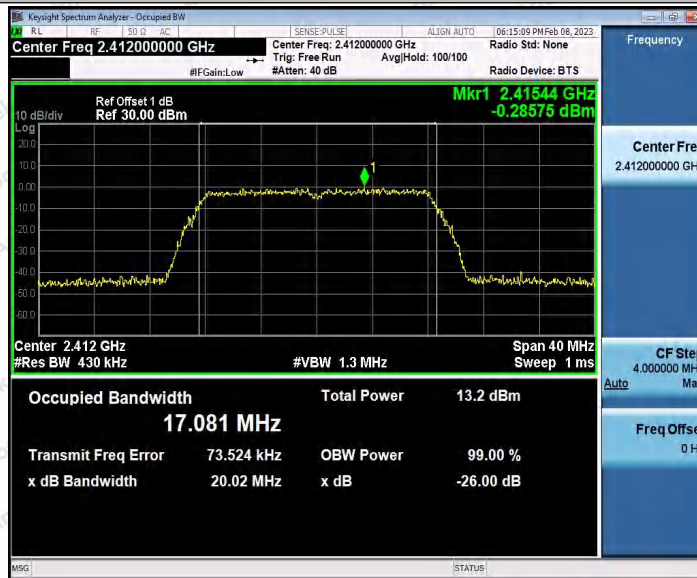
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11G\_Ant2\_2412



11G\_Ant1\_2437

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11G\_Ant2\_2437



11G\_Ant1\_2462

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11G\_Ant2\_2462



11N20\_Ant1\_2412

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11N20\_Ant2\_2412



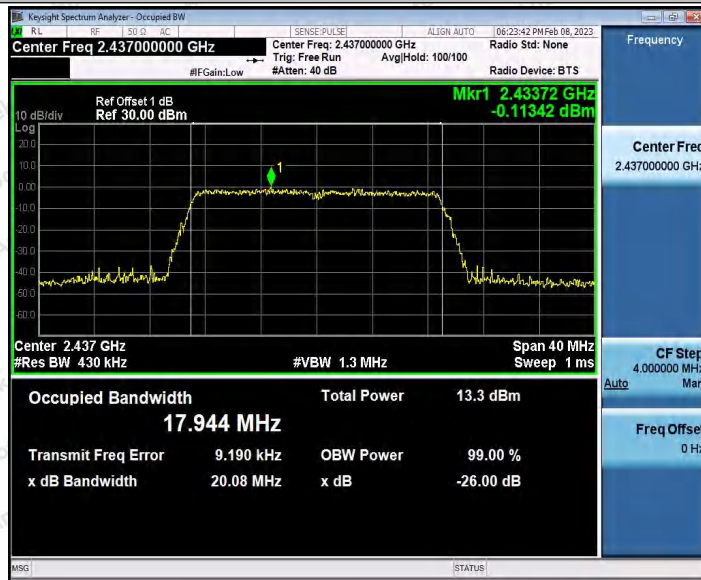
11N20\_Ant1\_2437

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11N20\_Ant2\_2462



11N40\_Ant1\_2422

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11N40\_Ant2\_2422



11N40\_Ant1\_2437

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11N40\_Ant2\_2437



11N40\_Ant1\_2452

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11N40\_Ant2\_2452



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## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.13	≤30.00
	Ant2	2412	15.15	≤30.00
	Ant1	2437	14.91	≤30.00
	Ant2	2437	15.05	≤30.00
	Ant1	2462	15.39	≤30.00
	Ant2	2462	15.17	≤30.00
11G	Ant1	2412	14.69	≤30.00
	Ant2	2412	14.45	≤30.00
	Ant1	2437	14.77	≤30.00
	Ant2	2437	14.50	≤30.00
	Ant1	2462	14.59	≤30.00
	Ant2	2462	14.45	≤30.00
11N20	Ant1	2412	14.70	≤30.00
	Ant2	2412	14.51	≤30.00
	Ant1	2437	14.58	≤30.00
	Ant2	2437	14.50	≤30.00
	Ant1	2462	14.56	≤30.00
	Ant2	2462	14.46	≤30.00
11N40	Ant1	2422	14.23	≤30.00
	Ant2	2422	14.32	≤30.00
	Ant1	2437	13.94	≤30.00
	Ant2	2437	14.03	≤30.00
	Ant1	2452	13.69	≤30.00
	Ant2	2452	13.98	≤30.00



**MIMO**

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11N20	Ant1+Ant2	2412	17.62	≤30	PASS
	Ant1+Ant2	2437	17.55	≤30	PASS
	Ant1+Ant2	2462	17.52	≤30	PASS
11N40	Ant1+Ant2	2422	17.29	≤30	PASS
	Ant1+Ant2	2437	17.00	≤30	PASS
	Ant1+Ant2	2452	16.85	≤30	PASS

**Note:**

1. Total (dBm)= $10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{ANT2 power(dBm)/10})})$
2. As Directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$  dBi,  
so MIMO Limit(dBm)=Limit - (Directional gain-6.00).

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## Appendix D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.63	≤8.00	PASS
	Ant2	2412	-6.57	≤8.00	PASS
	Ant1	2437	-10.83	≤8.00	PASS
	Ant2	2437	-8.91	≤8.00	PASS
	Ant1	2462	-9.31	≤8.00	PASS
	Ant2	2462	-9.77	≤8.00	PASS
11G	Ant1	2412	-17.2	≤8.00	PASS
	Ant2	2412	-17.61	≤8.00	PASS
	Ant1	2437	-18.21	≤8.00	PASS
	Ant2	2437	-17.72	≤8.00	PASS
	Ant1	2462	-17.81	≤8.00	PASS
	Ant2	2462	-16.94	≤8.00	PASS
11N20	Ant1	2412	-16.77	≤8.00	PASS
	Ant2	2412	-18.36	≤8.00	PASS
	Ant1	2437	-16.16	≤8.00	PASS
	Ant2	2437	-17.72	≤8.00	PASS
	Ant1	2462	-18	≤8.00	PASS
	Ant2	2462	-17.35	≤8.00	PASS
11N40	Ant1	2422	-17.33	≤8.00	PASS
	Ant2	2422	-18.33	≤8.00	PASS
	Ant1	2437	-18.23	≤8.00	PASS
	Ant2	2437	-19.02	≤8.00	PASS
	Ant1	2452	-18.54	≤8.00	PASS
	Ant2	2452	-18.01	≤8.00	PASS



**MIMO**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	Ant1+Ant2	2412	-14.48	≤8	PASS
	Ant1+Ant2	2437	-13.86	≤8	PASS
	Ant1+Ant2	2462	-14.65	≤8	PASS
11N40	Ant1+Ant2	2422	-14.79	≤8	PASS
	Ant1+Ant2	2437	-15.60	≤8	PASS
	Ant1+Ant2	2452	-15.26	≤8	PASS

**Note:**

1. Total (dBm/3kHz)= $10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{ANT2 power(dBm)/10})})$
2. As Directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$  dBi,  
so MIMO Limit(dBm/3kHz)=Limit - (Directional gain-6.00).

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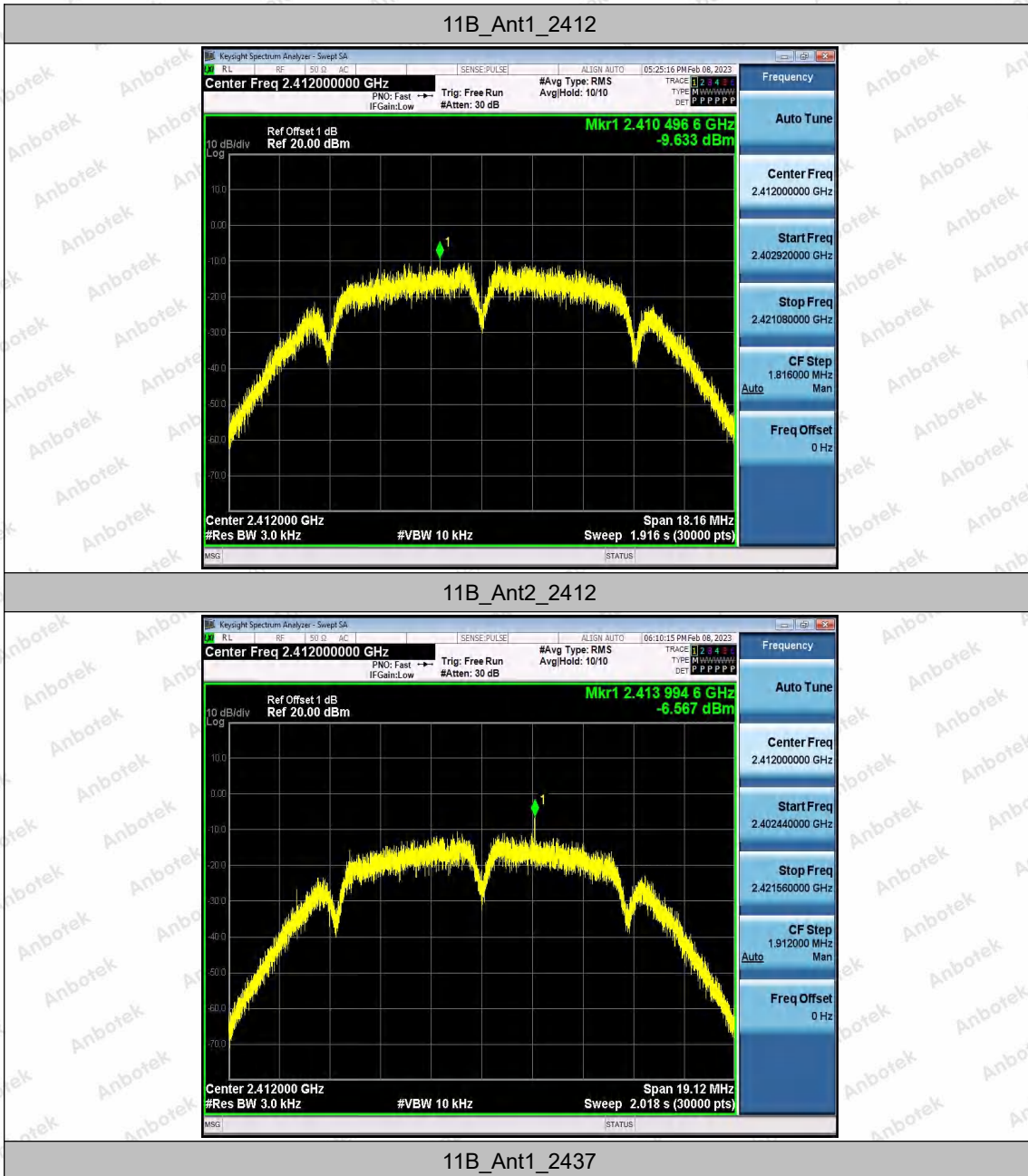


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## Test Graphs



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11B\_Ant2\_2437



11B\_Ant1\_2462

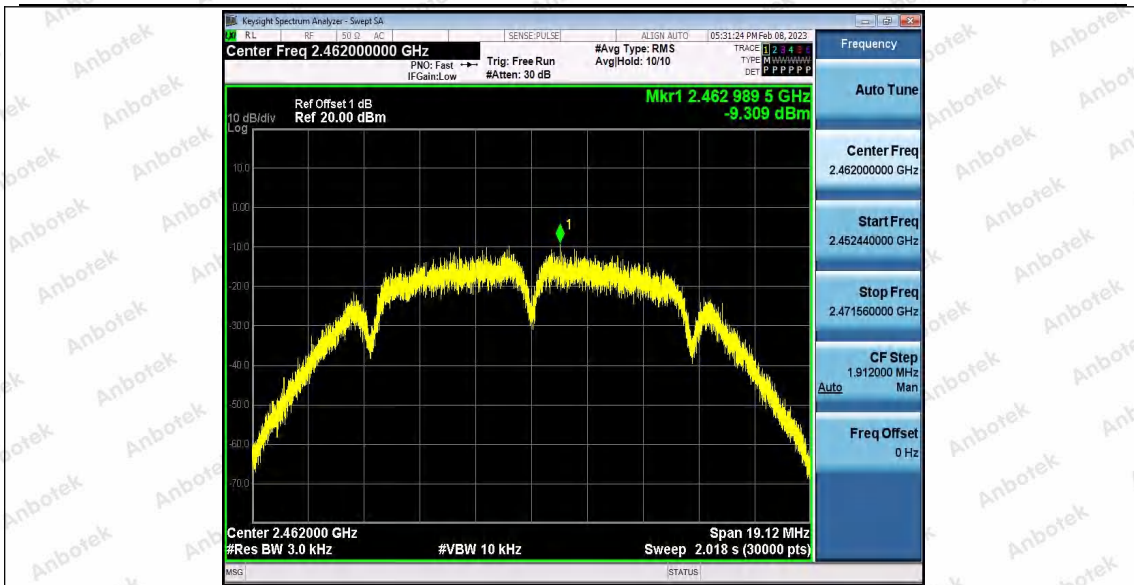
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11B\_Ant2\_2462



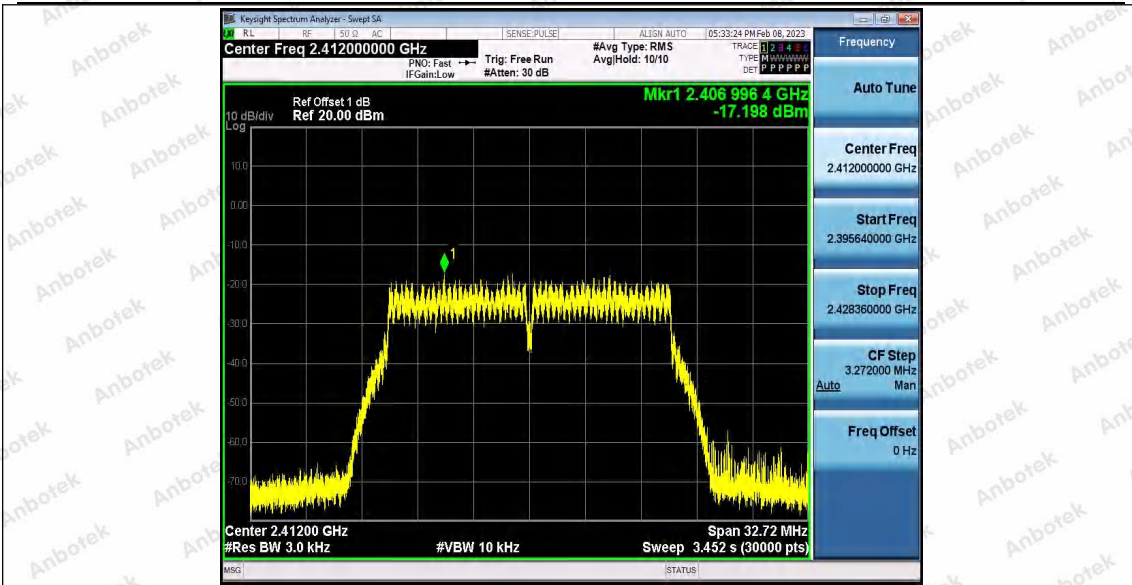
11G\_Ant1\_2412

### Shenzhen Anbotek Compliance Laboratory Limited

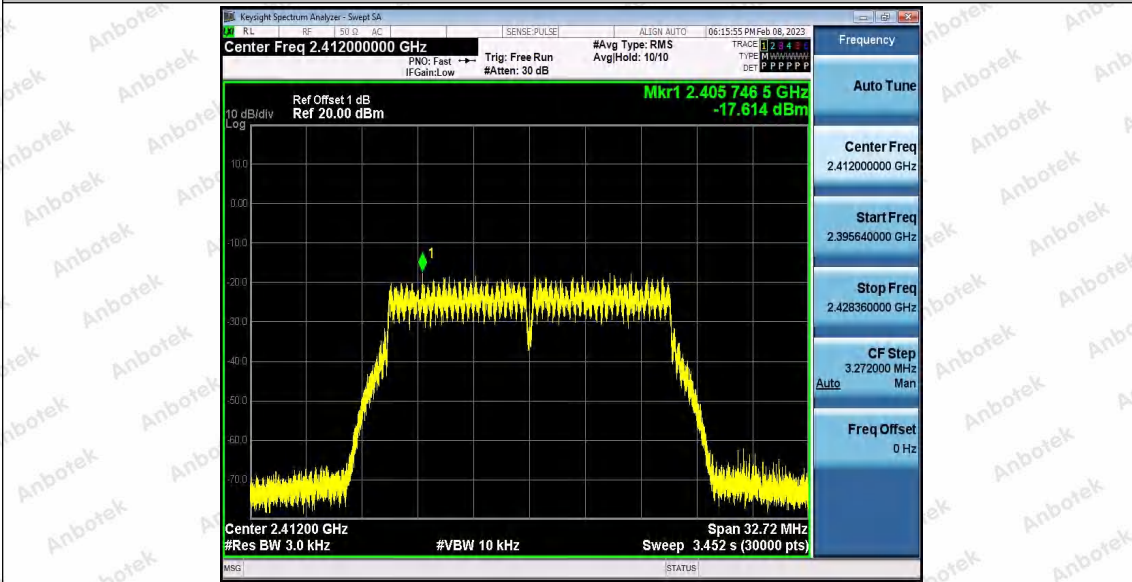
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11G\_Ant2\_2412



11G\_Ant1\_2437

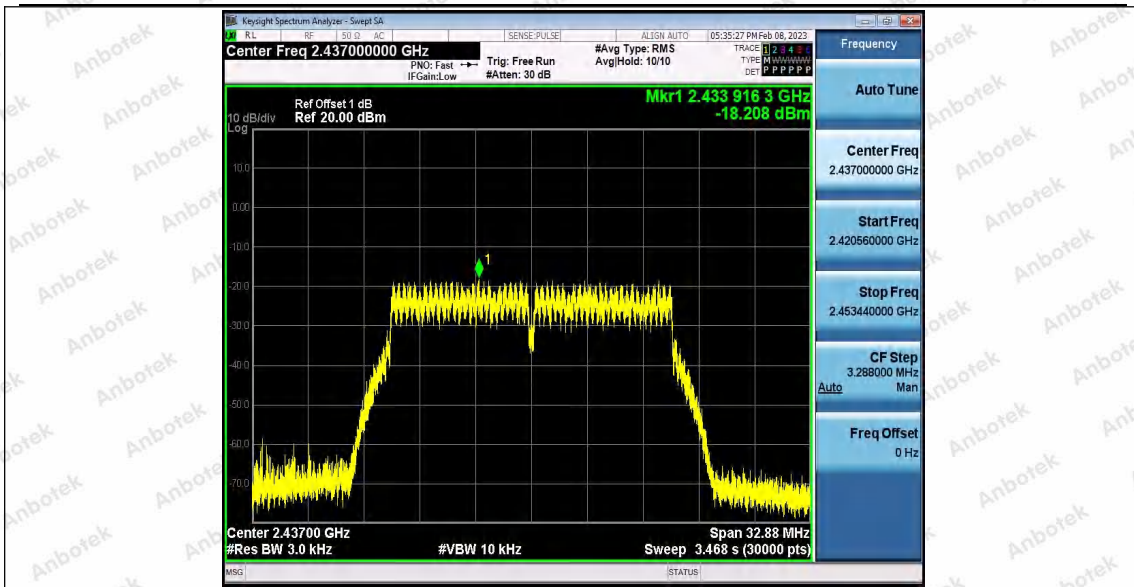
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

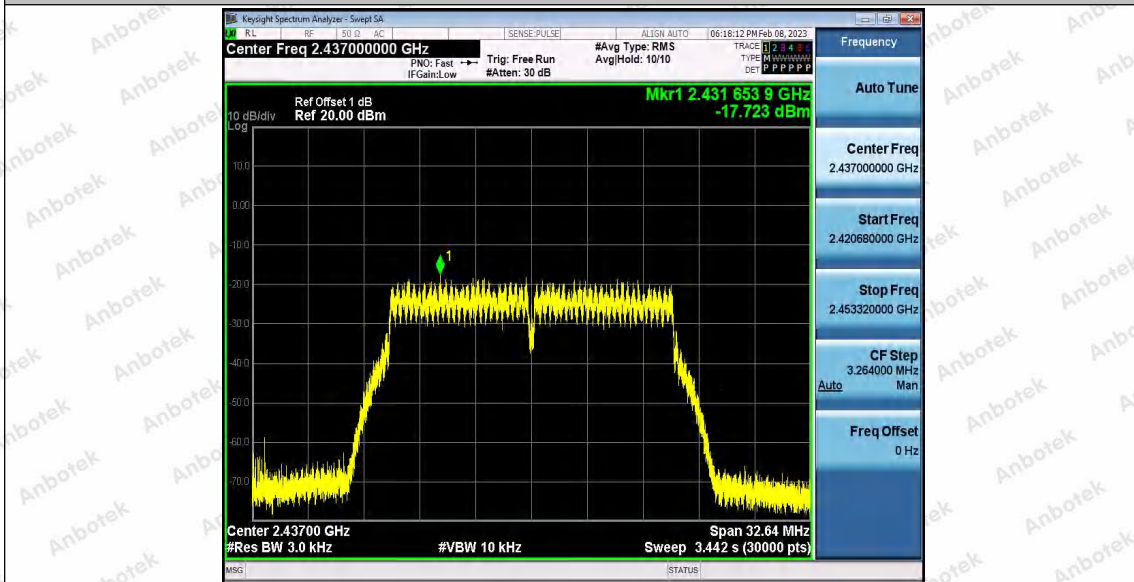
Hotline 400-003-0500  
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11G\_Ant2\_2437



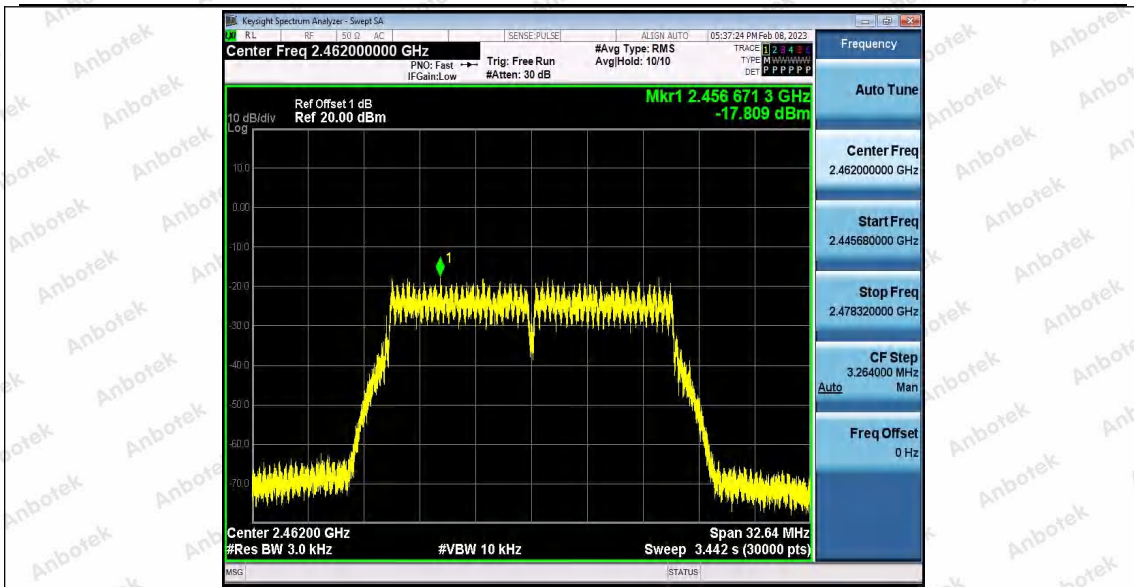
11G\_Ant1\_2462

### Shenzhen Anbotek Compliance Laboratory Limited

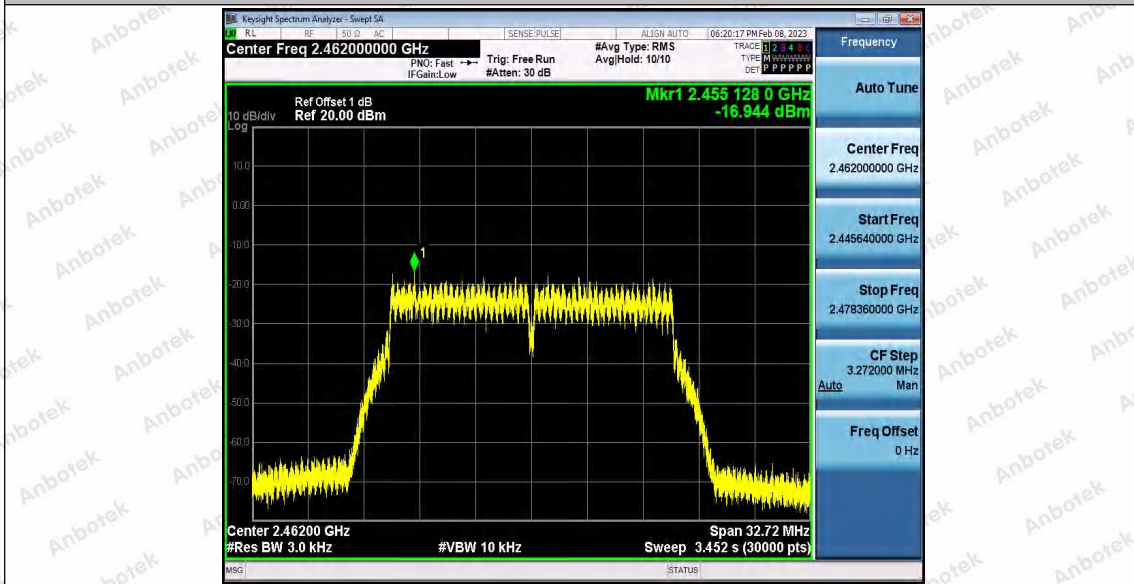
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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11G\_Ant2\_2462



11N20\_Ant1\_2412

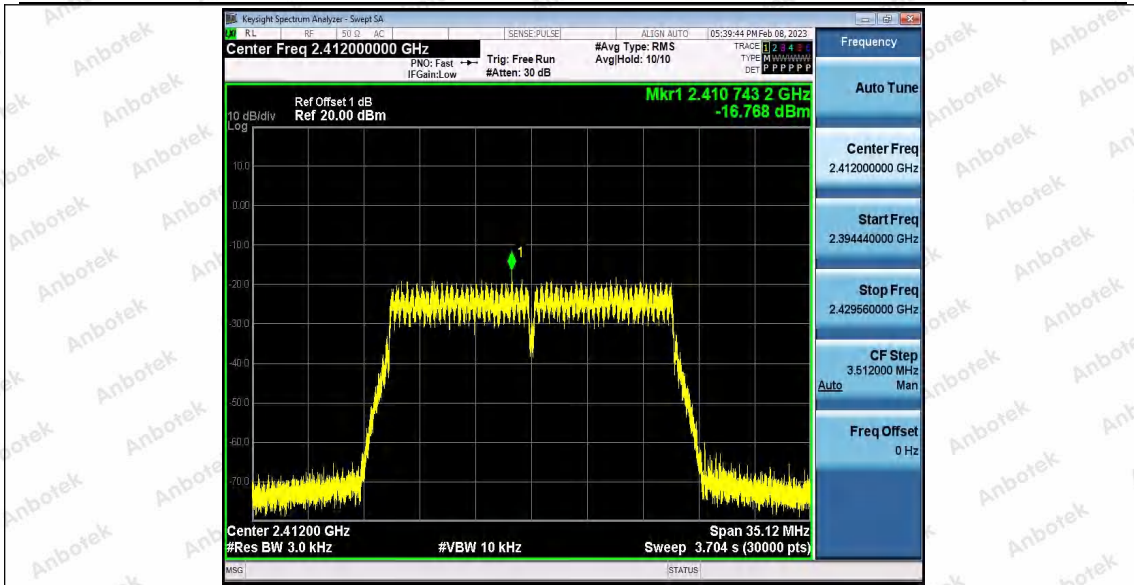
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

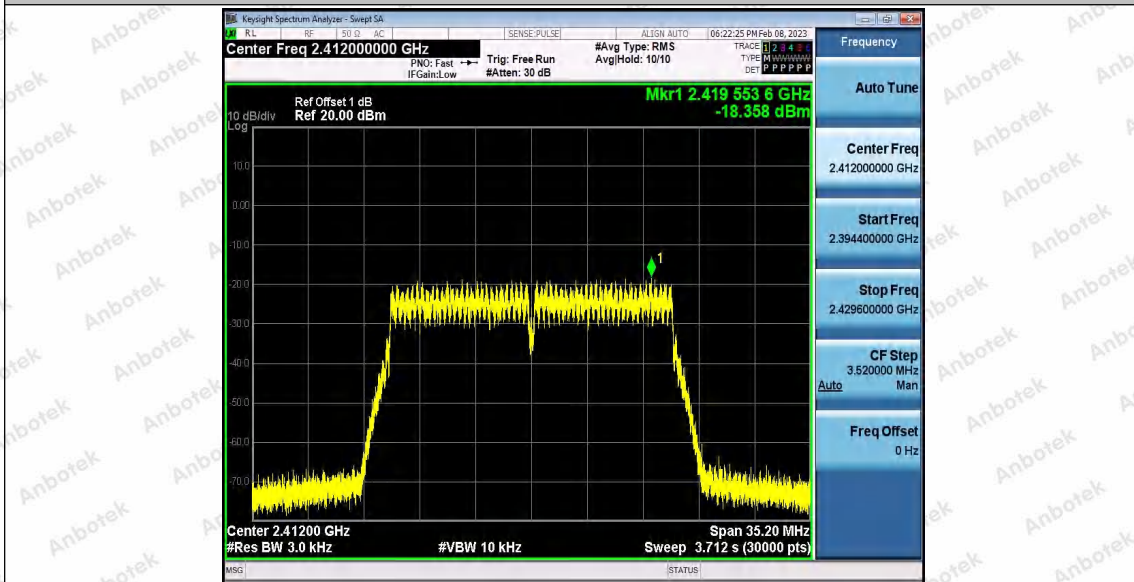
Hotline 400-003-0500  
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11N20\_Ant2\_2412



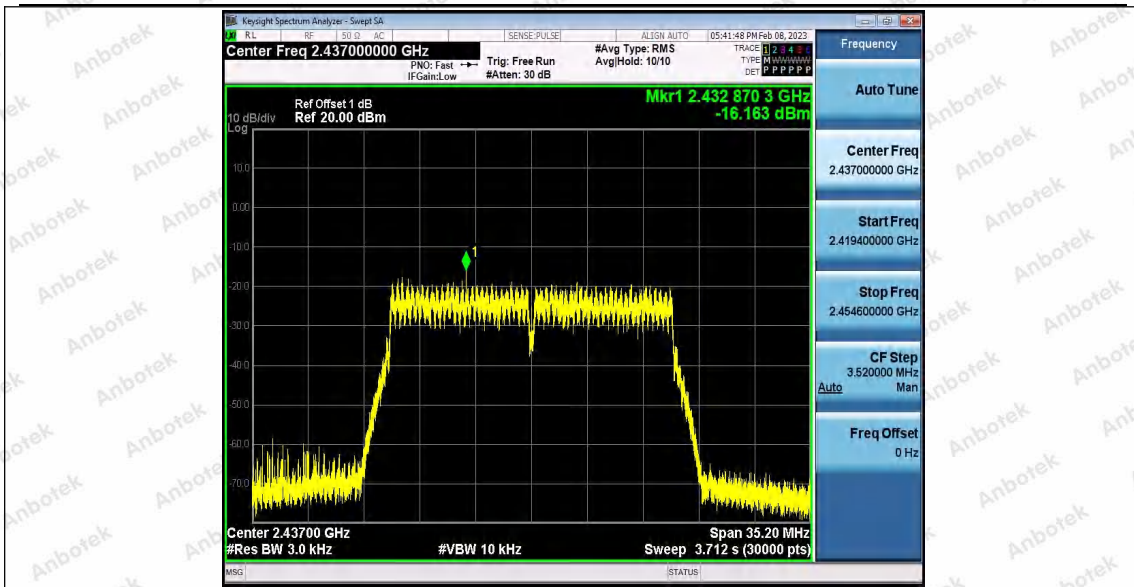
11N20\_Ant1\_2437

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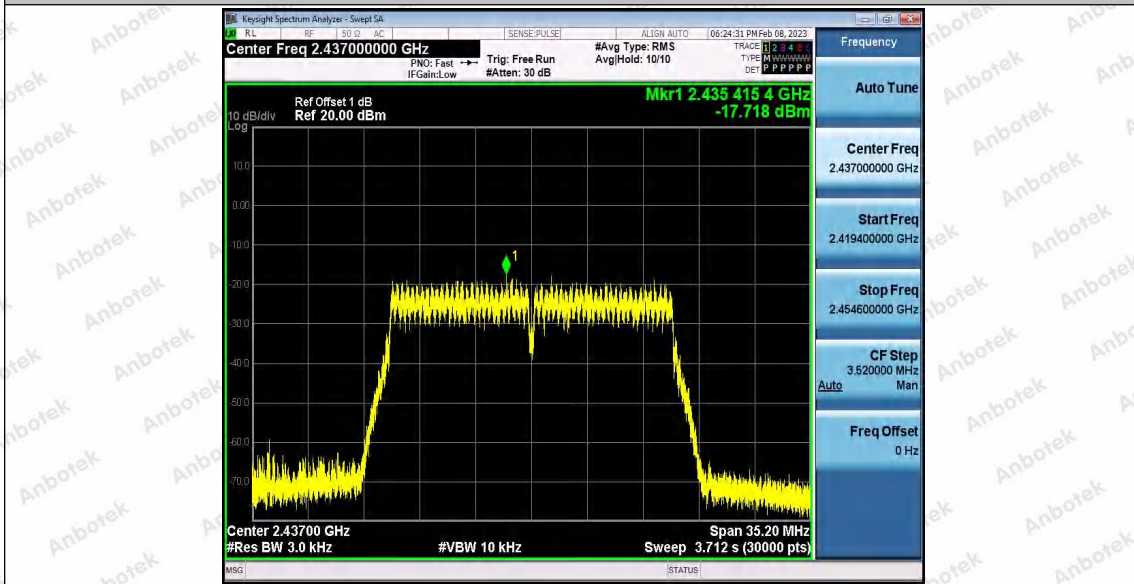
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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11N20\_Ant2\_2437



11N20\_Ant1\_2462

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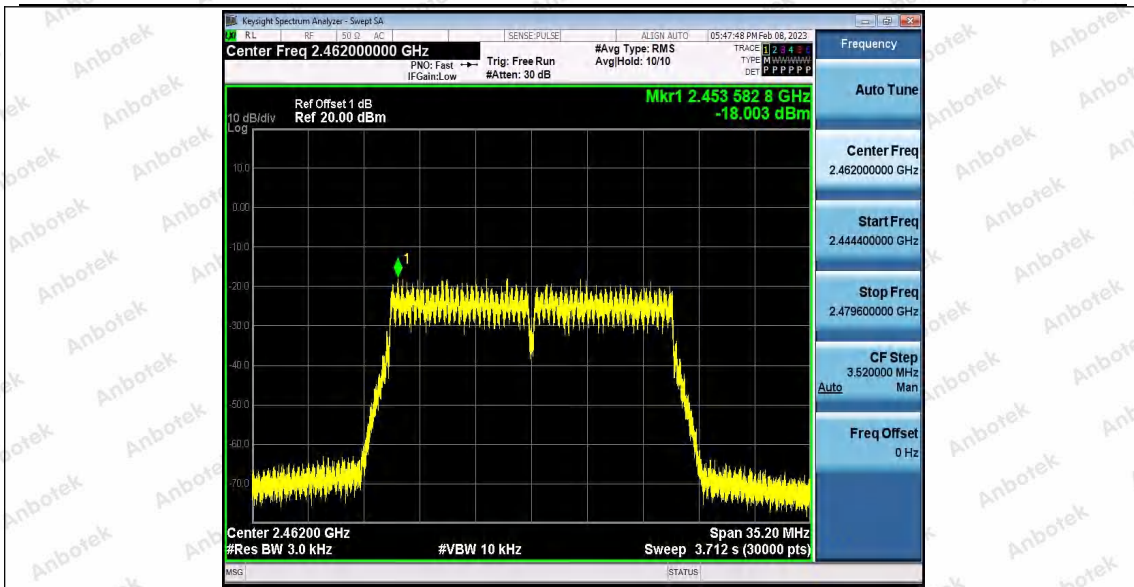
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



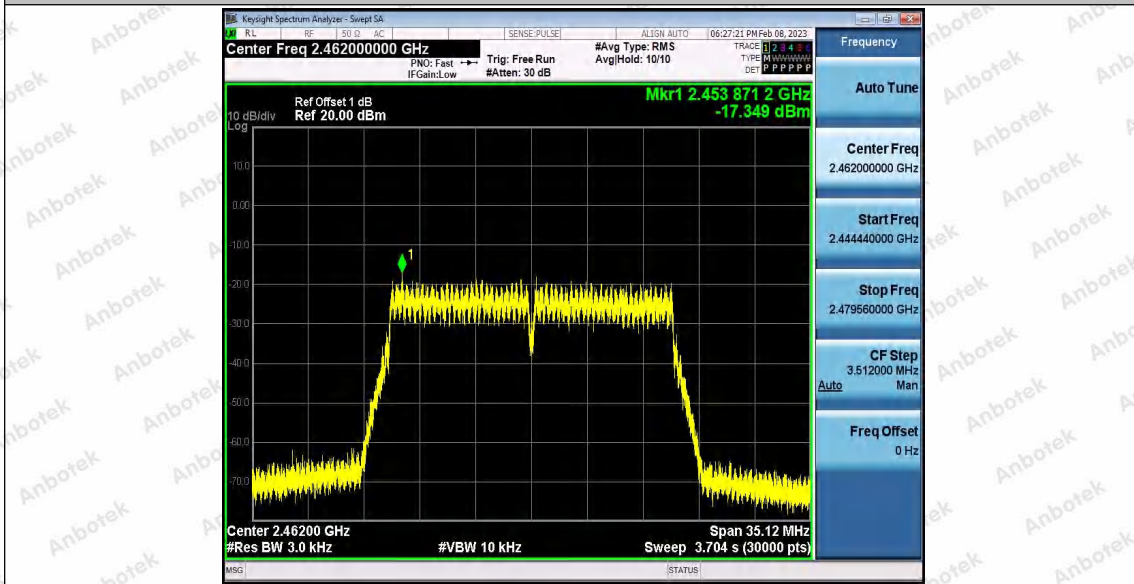
Hotline  
400-003-0500  
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11N20\_Ant2\_2462



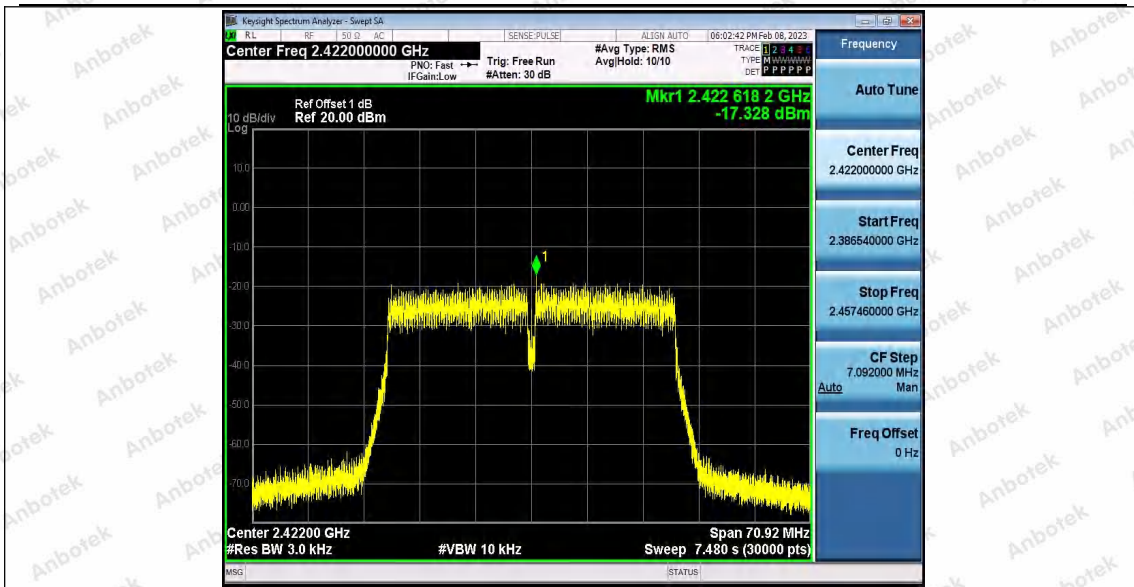
11N40\_Ant1\_2422

### Shenzhen Anbotek Compliance Laboratory Limited

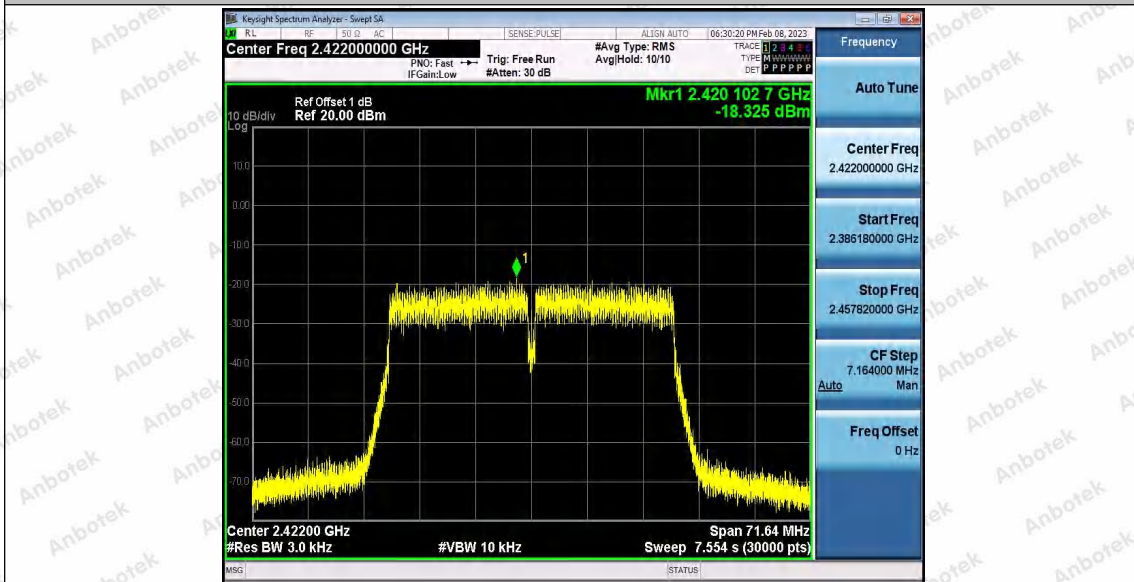
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N40\_Ant2\_2422



11N40\_Ant1\_2437

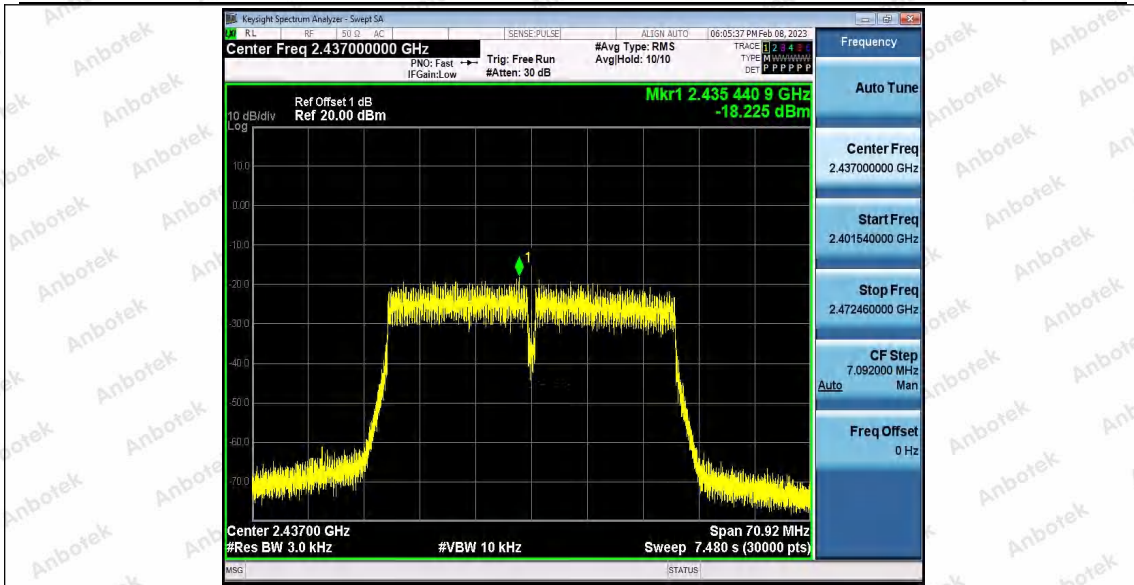
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

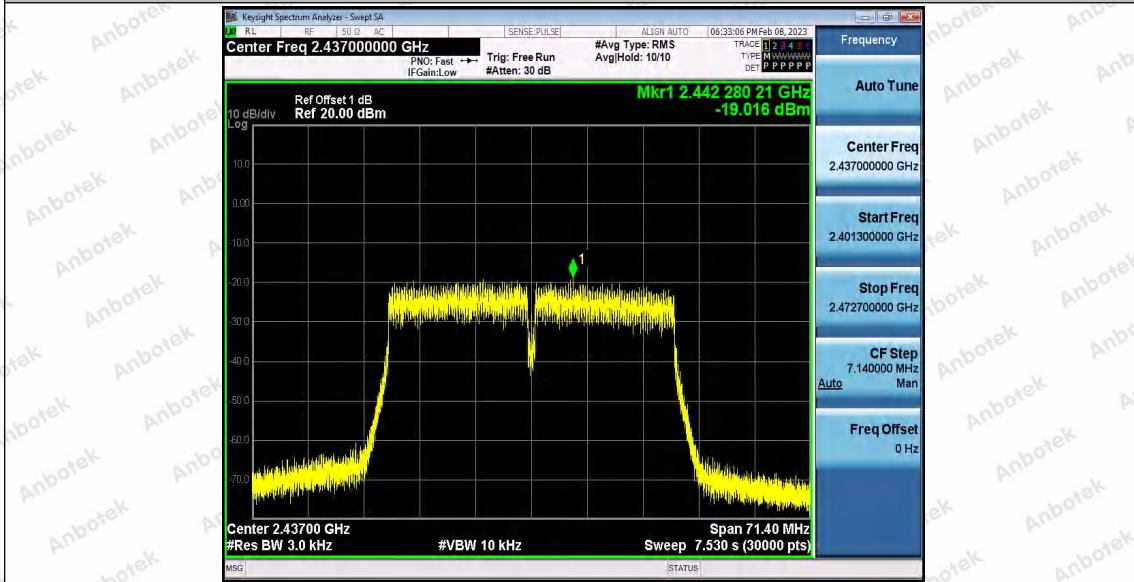
Hotline: 400-003-0500  
www.anbotek.com.cn







11N40\_Ant2\_2437



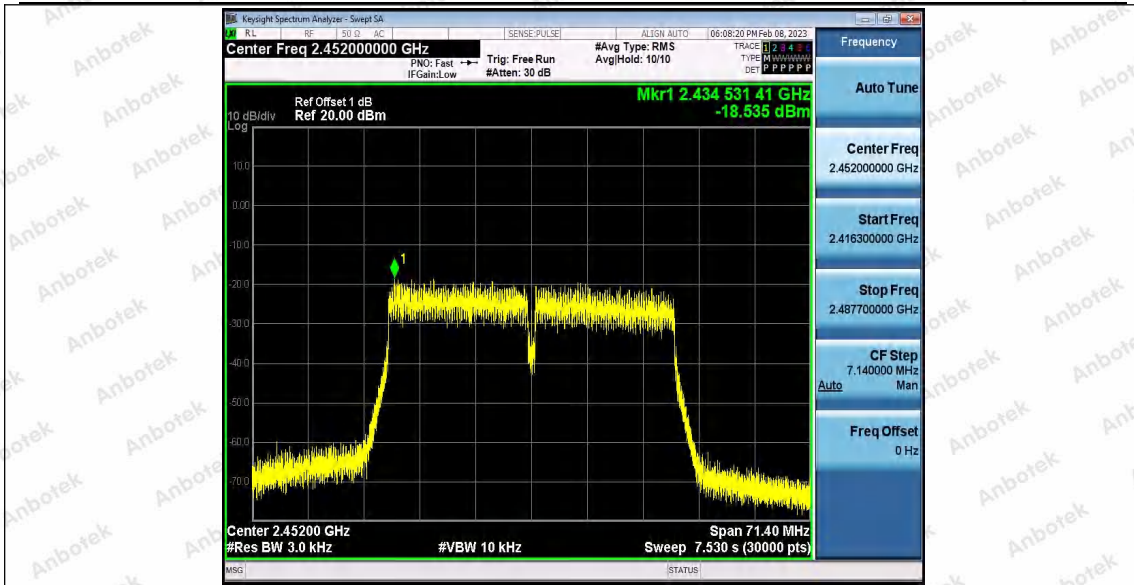
11N40\_Ant1\_2452

### Shenzhen Anbotek Compliance Laboratory Limited

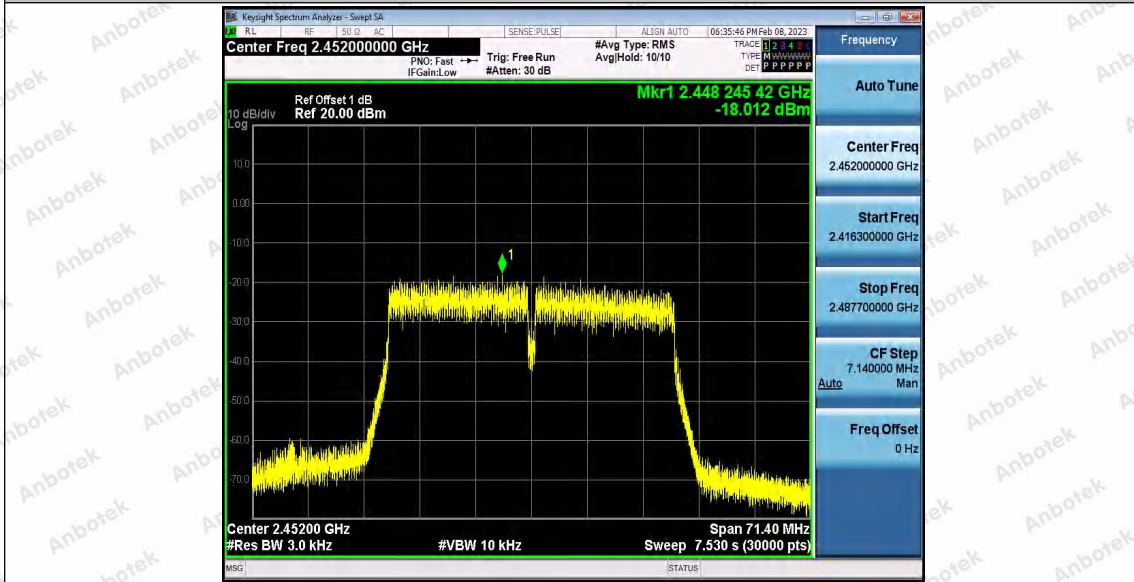
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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11N40\_Ant2\_2452



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## Appendix E: Band edge measurements

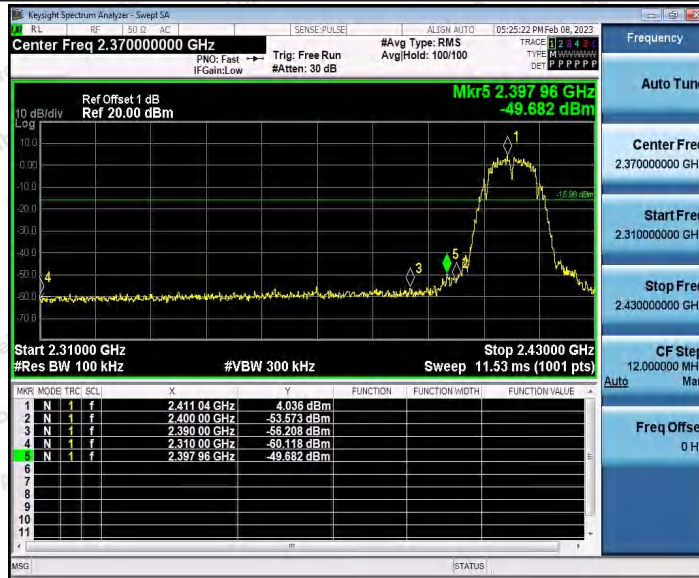
### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.04	-49.68	≤-15.96	PASS
	Ant2	Low	2412	3.58	-49.93	≤-16.42	PASS
	Ant1	High	2462	3.28	-56.64	≤-16.72	PASS
	Ant2	High	2462	3.43	-57.14	≤-16.57	PASS
11G	Ant1	Low	2412	-4.10	-51.4	≤-24.1	PASS
	Ant2	Low	2412	-4.23	-51.25	≤-24.23	PASS
	Ant1	High	2462	-3.63	-55.03	≤-23.63	PASS
	Ant2	High	2462	-4.22	-55.64	≤-24.22	PASS
11N20	Ant1	Low	2412	-4.01	-48.97	≤-24.01	PASS
	Ant2	Low	2412	-4.59	-48.19	≤-24.59	PASS
	Ant1	High	2462	-3.81	-54.59	≤-23.81	PASS
	Ant2	High	2462	-3.70	-55.28	≤-23.7	PASS
11N40	Ant1	Low	2422	-4.27	-43.79	≤-24.27	PASS
	Ant2	Low	2422	-4.60	-43.96	≤-24.6	PASS
	Ant1	High	2452	-4.37	-49.02	≤-24.37	PASS
	Ant2	High	2452	-4.28	-49.2	≤-24.28	PASS

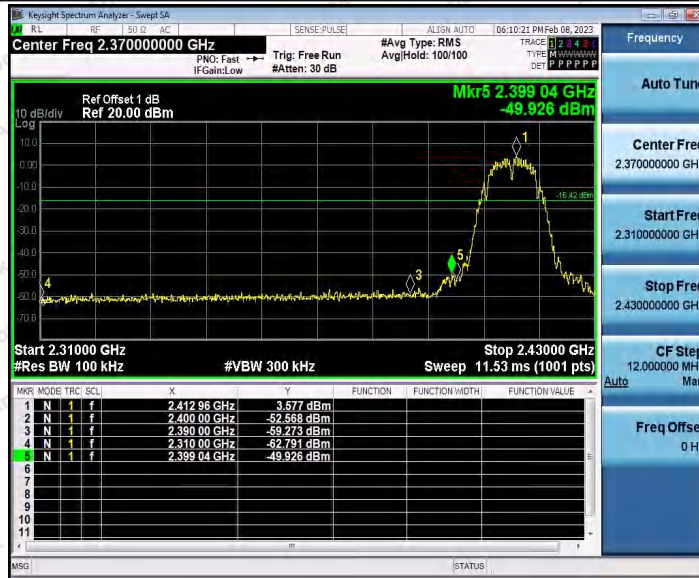


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant2\_Low\_2412



11B\_Ant1\_High\_2462

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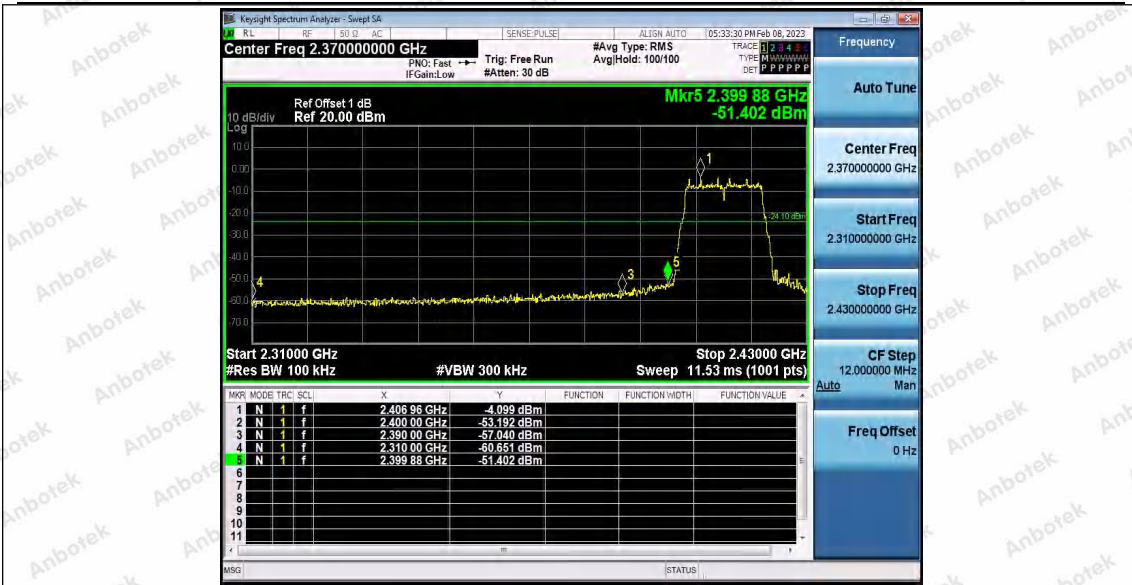


11B\_Ant2\_High\_2462

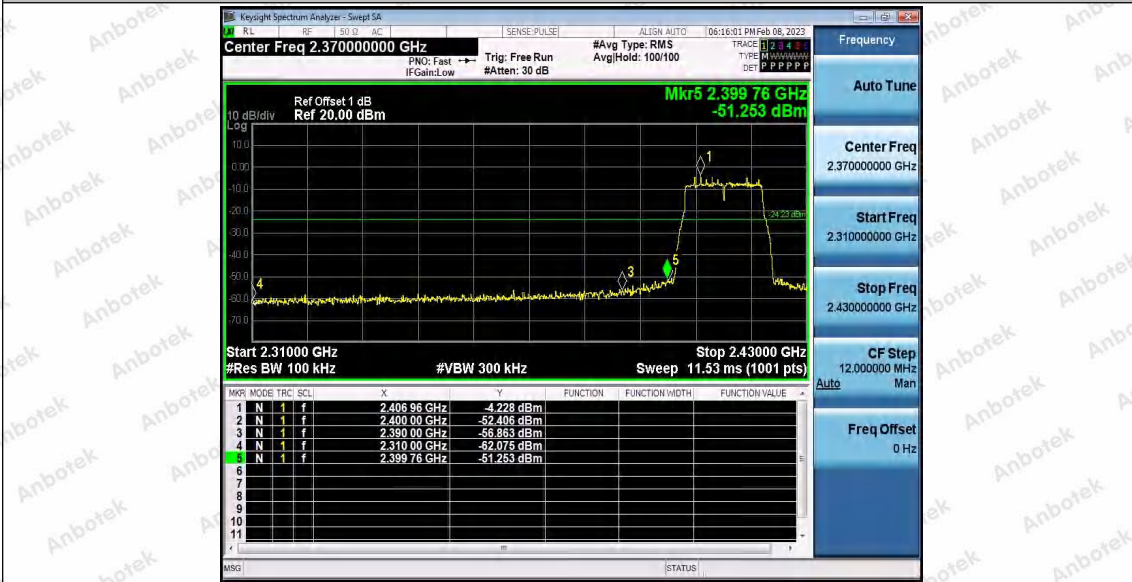


11G\_Ant1\_Low\_2412





11G\_Ant2\_Low\_2412



11G\_Ant1\_High\_2462

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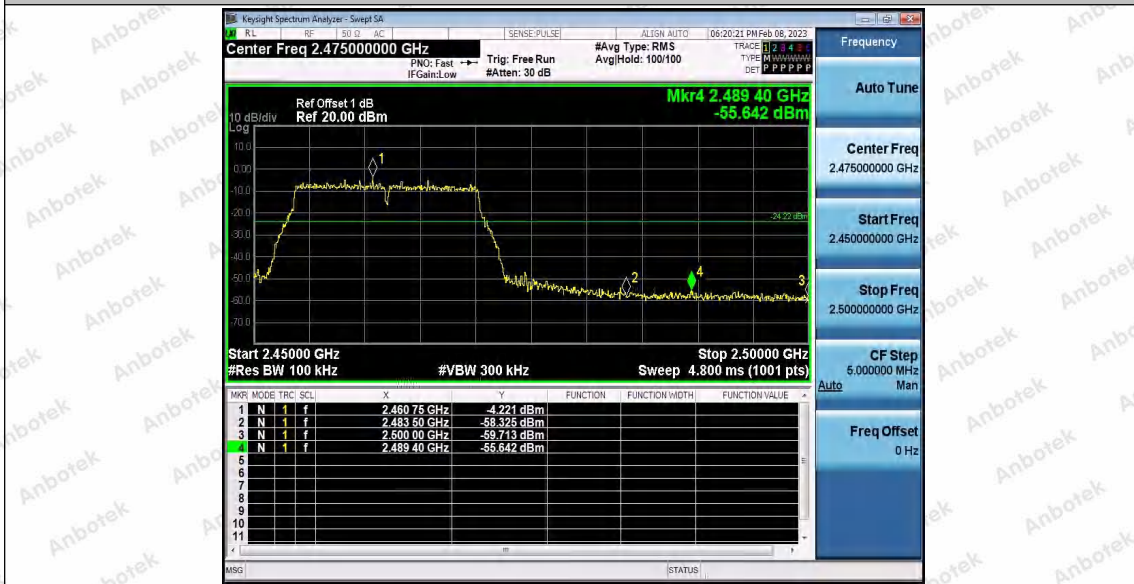
Hotline 400-003-0500  
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11G\_Ant2\_High\_2462



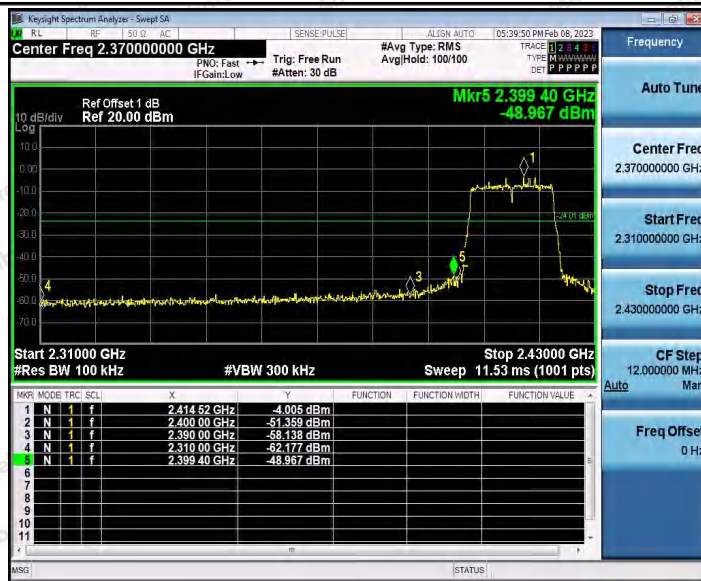
11N20\_Ant1\_Low\_2412

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11N20\_Ant2\_Low\_2412



11N20\_Ant1\_High\_2462

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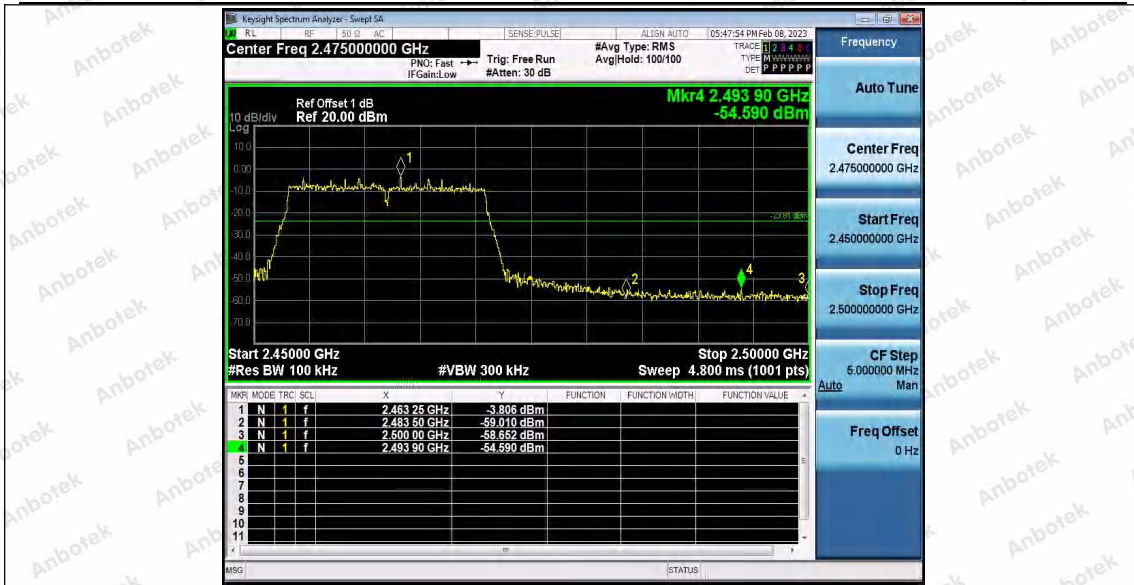
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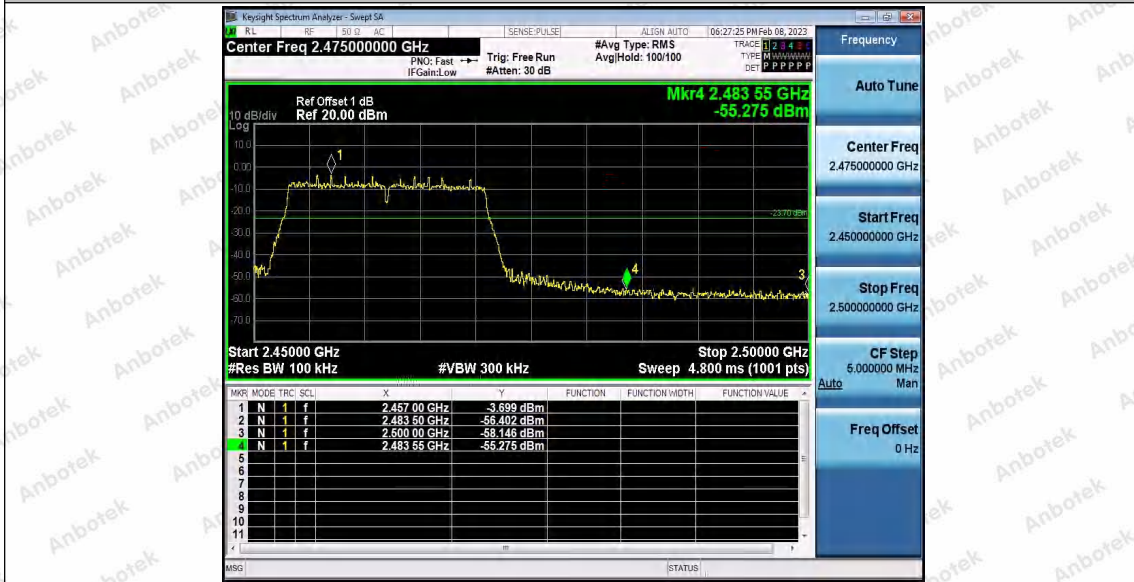
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11N20\_Ant2\_High\_2462



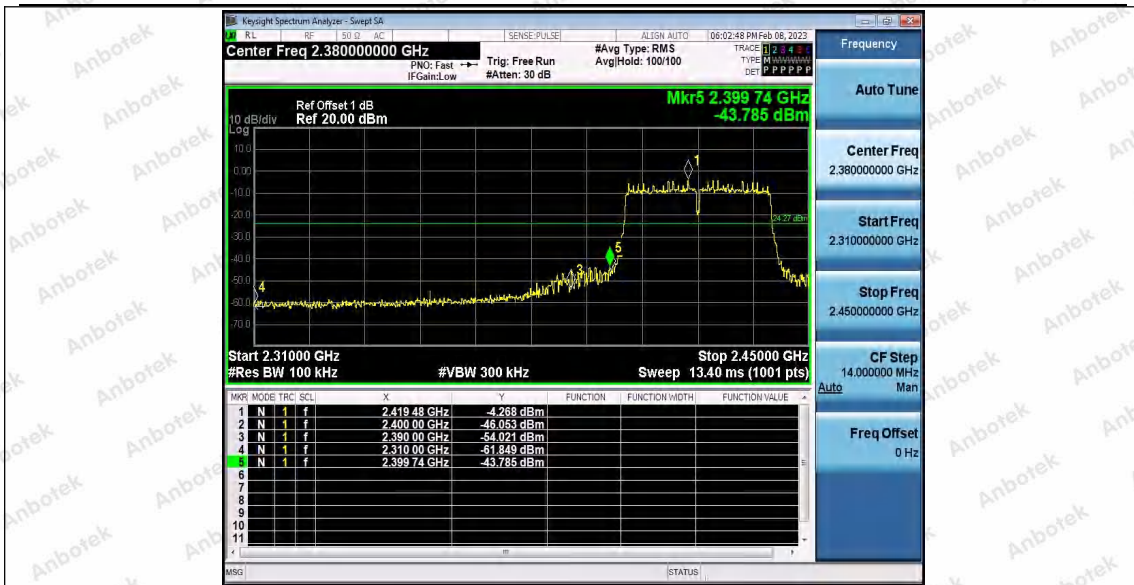
11N40\_Ant1\_Low\_2422

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11N40\_Ant2\_Low\_2422



11N40\_Ant1\_High\_2452

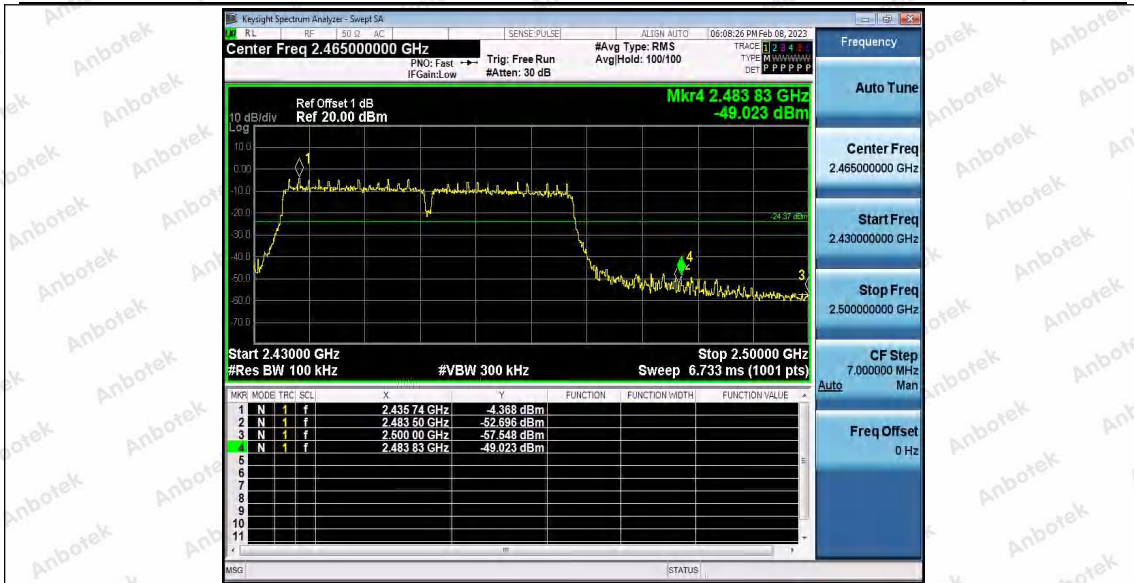
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

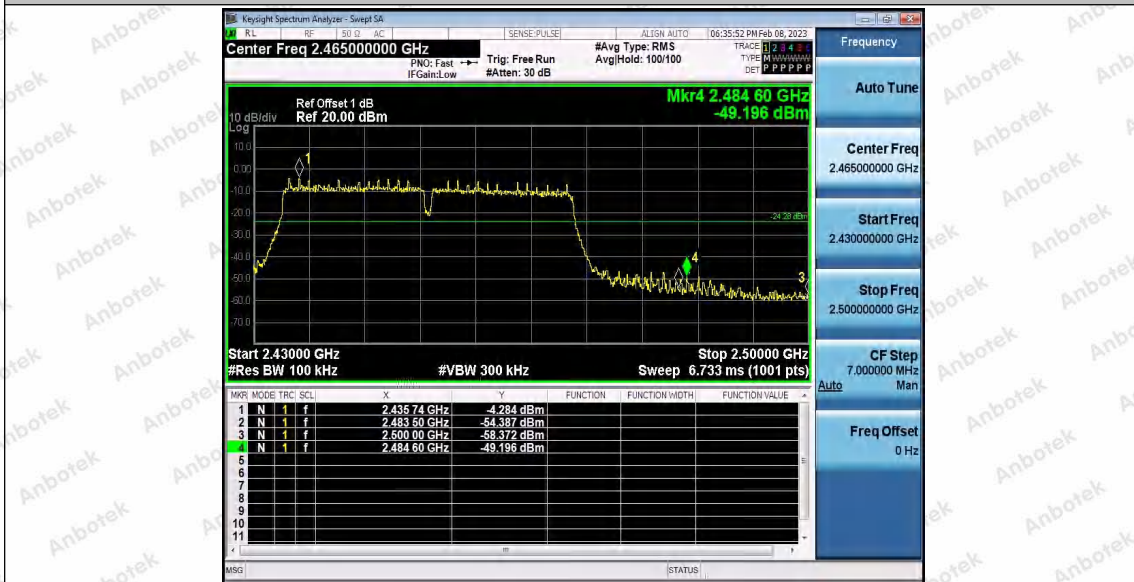
Hotline  
 400-003-0500  
[www.anbotek.com.cn](http://www.anbotek.com.cn)







11N40\_Ant2\_High\_2452



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