

## Appendix Test Data

Report No.:	18220WC30245902	Test Sample No.:	1-2-2
Start Test Date:	2023.11.27	Finish Test Date:	2023.12.02
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	43%
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	7.520	2408.480	2416.000	0.5	PASS
		2437	6.600	2433.920	2440.520	0.5	PASS
		2462	6.600	2458.440	2465.040	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.400	2403.840	2440.240	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	35.360	2434.160	2469.520	0.5	PASS

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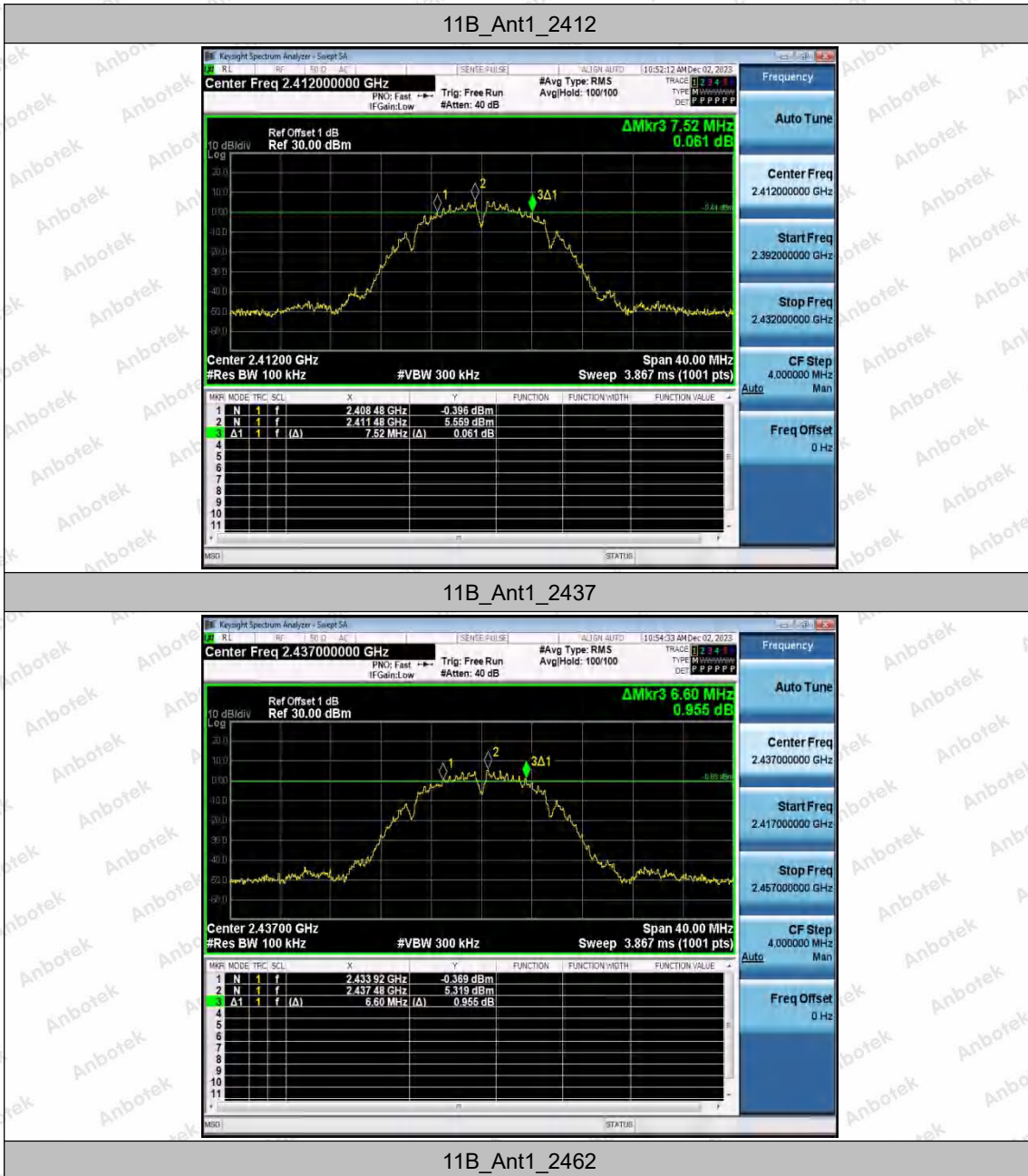
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## Test Graphs



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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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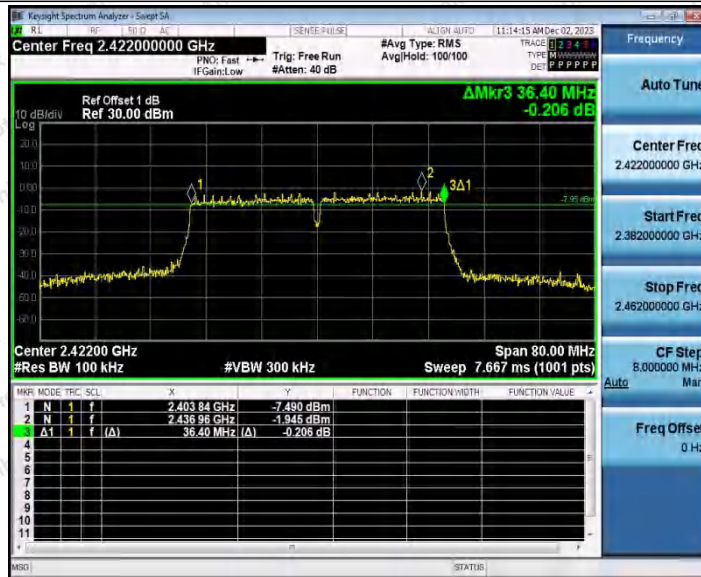




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



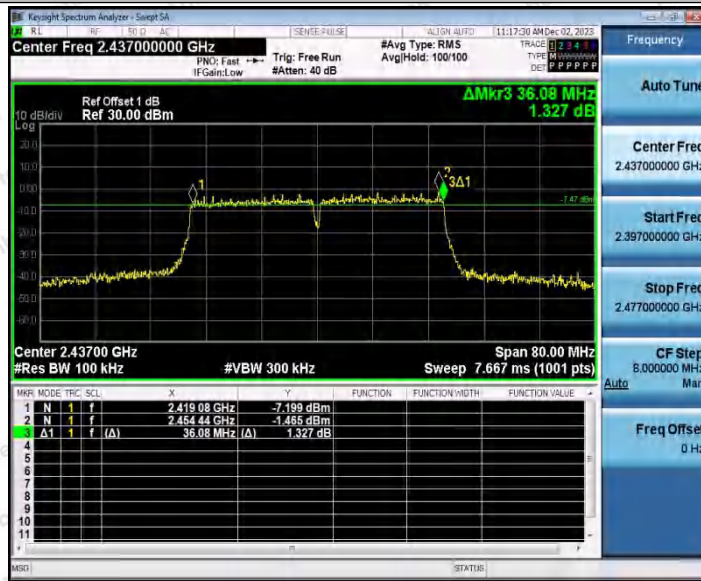
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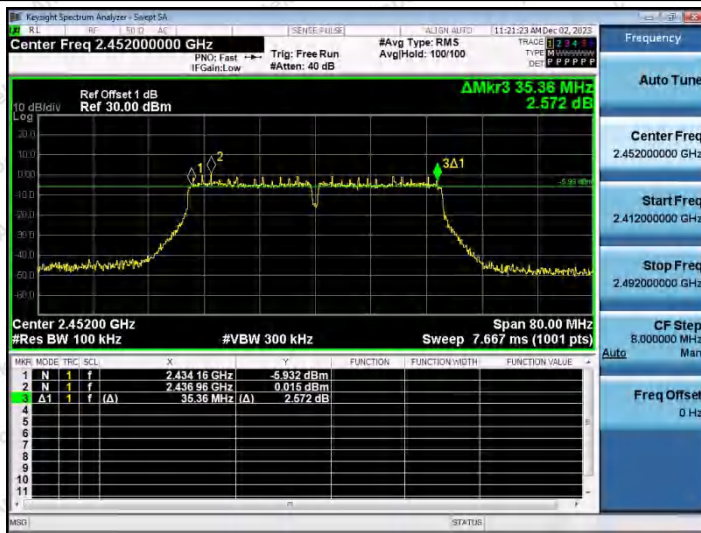
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.518	2406.3337	2417.8517	---	---
		2437	11.424	2431.4197	2442.8437	---	---
		2462	11.576	2456.3347	2467.9107	---	---
11G	Ant1	2412	17.115	2403.4844	2420.5994	---	---
		2437	17.182	2428.4371	2445.6191	---	---
		2462	17.178	2453.5291	2470.7071	---	---
11N20SISO	Ant1	2412	18.186	2402.9447	2421.1307	---	---
		2437	18.195	2427.9327	2446.1277	---	---
		2462	18.256	2452.9678	2471.2238	---	---
11N40SISO	Ant1	2422	36.634	2403.7991	2440.4331	---	---
		2437	36.465	2418.9073	2455.3723	---	---
		2452	36.531	2433.8839	2470.4149	---	---



## Test Graphs



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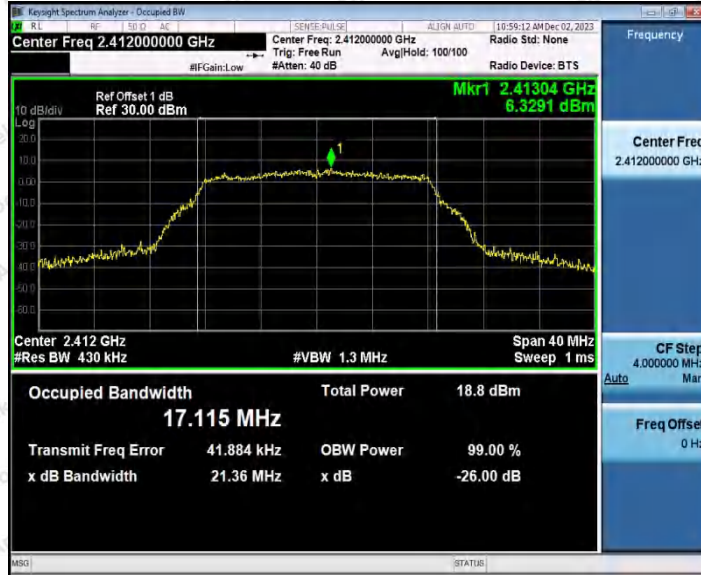
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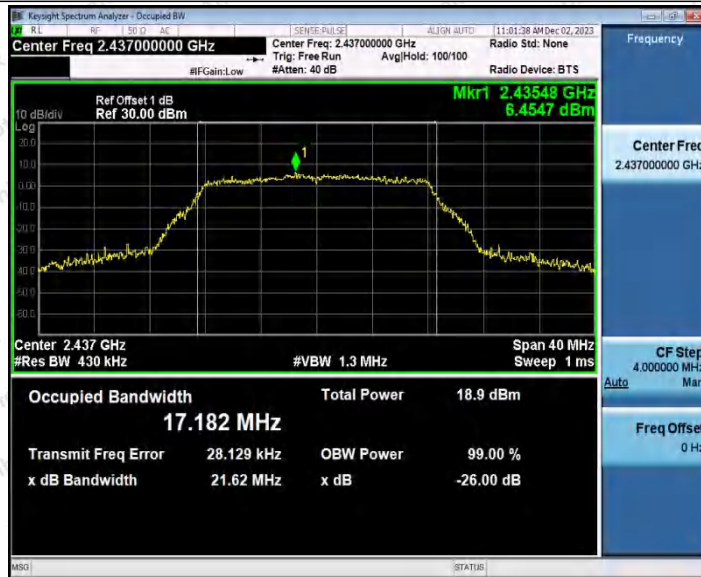




11G\_Ant1\_2412



11G\_Ant1\_2437



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11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422

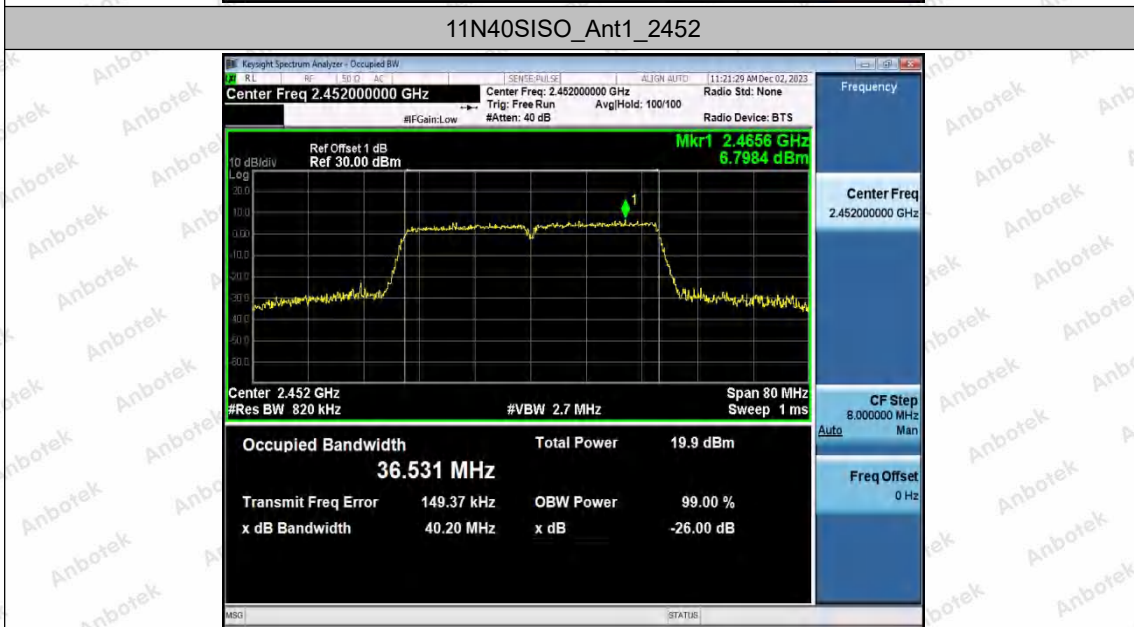
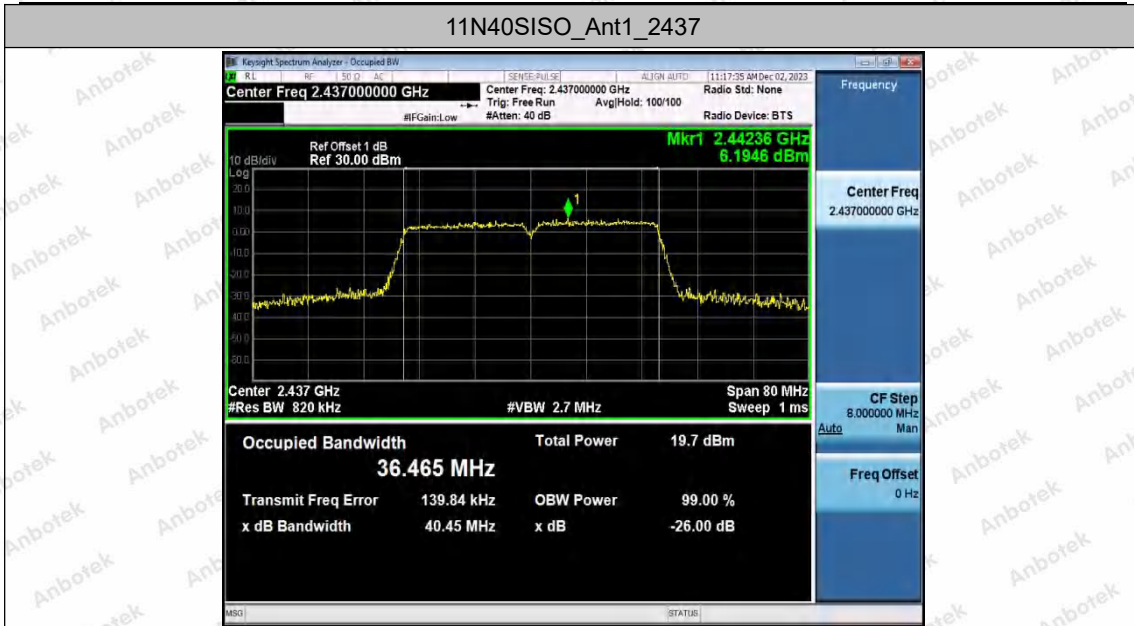


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## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.47	≤30.00
		2437	12.87	≤30.00
		2462	13.03	≤30.00
11G	Ant1	2412	12.78	≤30.00
		2437	12.86	≤30.00
		2462	12.70	≤30.00
11N20SISO	Ant1	2412	<b>13.55</b>	≤30.00
		2437	12.87	≤30.00
		2462	12.83	≤30.00
11N40SISO	Ant1	2422	13.26	≤30.00
		2437	13.67	≤30.00
		2452	13.16	≤30.00

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



## Test Graphs

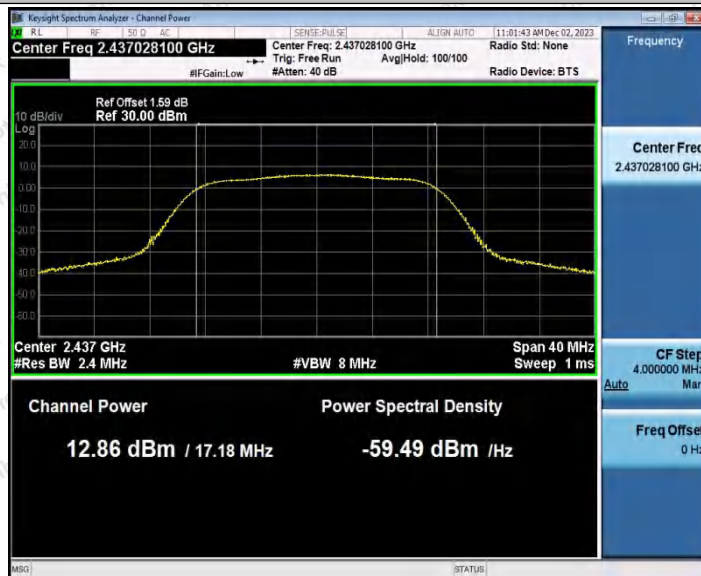




11G\_Ant1\_2412



11G\_Ant1\_2437



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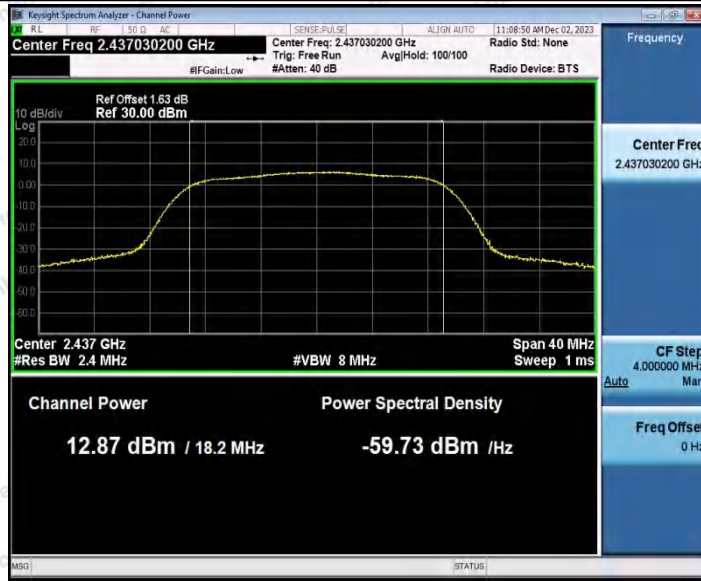
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11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



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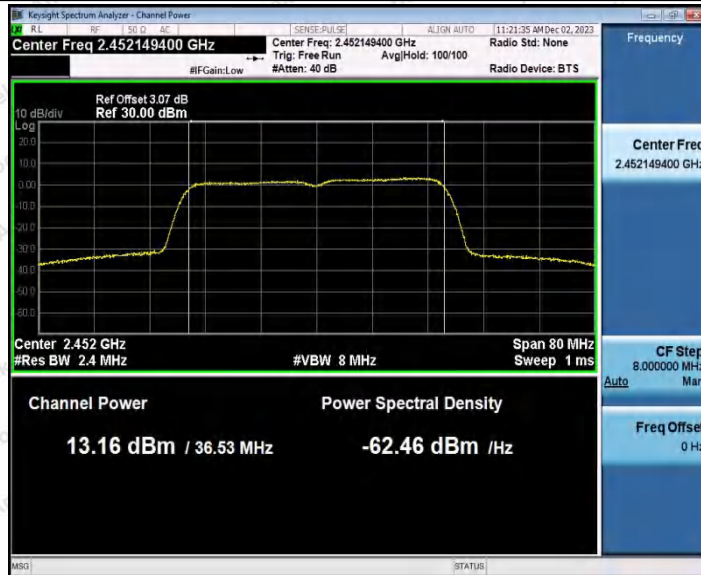
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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.57	≤8.00	PASS
		2437	-15.84	≤8.00	PASS
		2462	-15.53	≤8.00	PASS
11G	Ant1	2412	-16.88	≤8.00	PASS
		2437	-17.79	≤8.00	PASS
		2462	-17.96	≤8.00	PASS
11N20SISO	Ant1	2412	-17.81	≤8.00	PASS
		2437	-18.35	≤8.00	PASS
		2462	-18.1	≤8.00	PASS
11N40SISO	Ant1	2422	-20.67	≤8.00	PASS
		2437	-20.71	≤8.00	PASS
		2452	-19.36	≤8.00	PASS

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## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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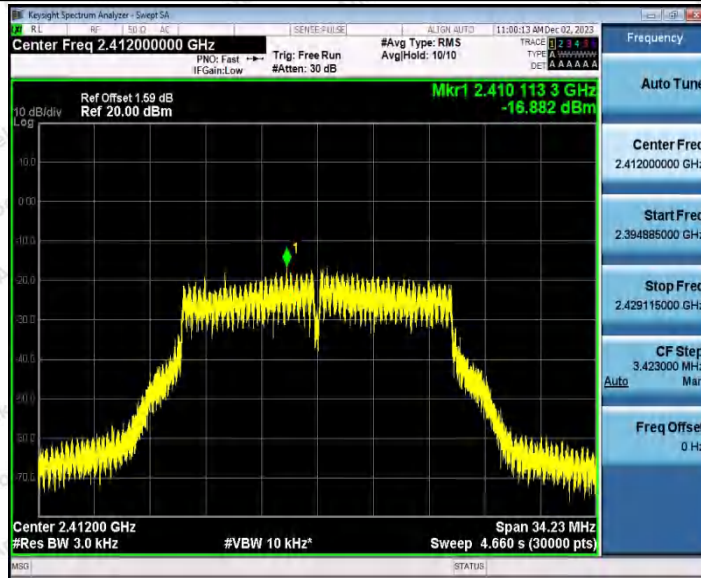
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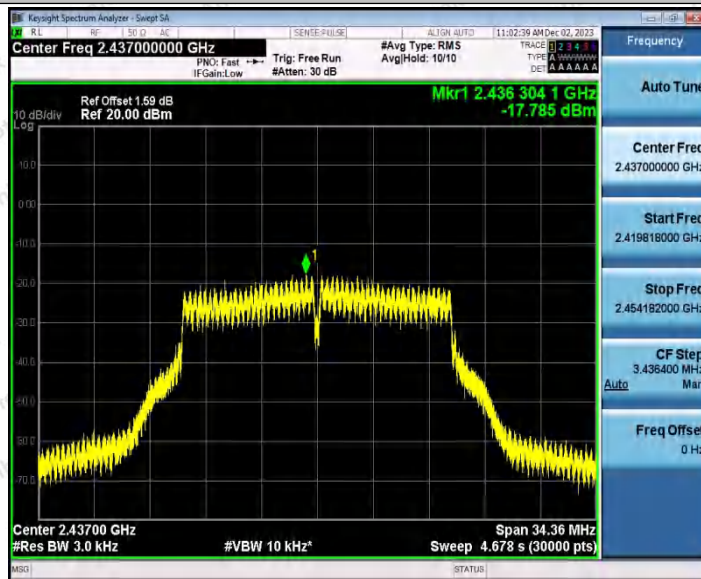




11G\_Ant1\_2412



11G\_Ant1\_2437

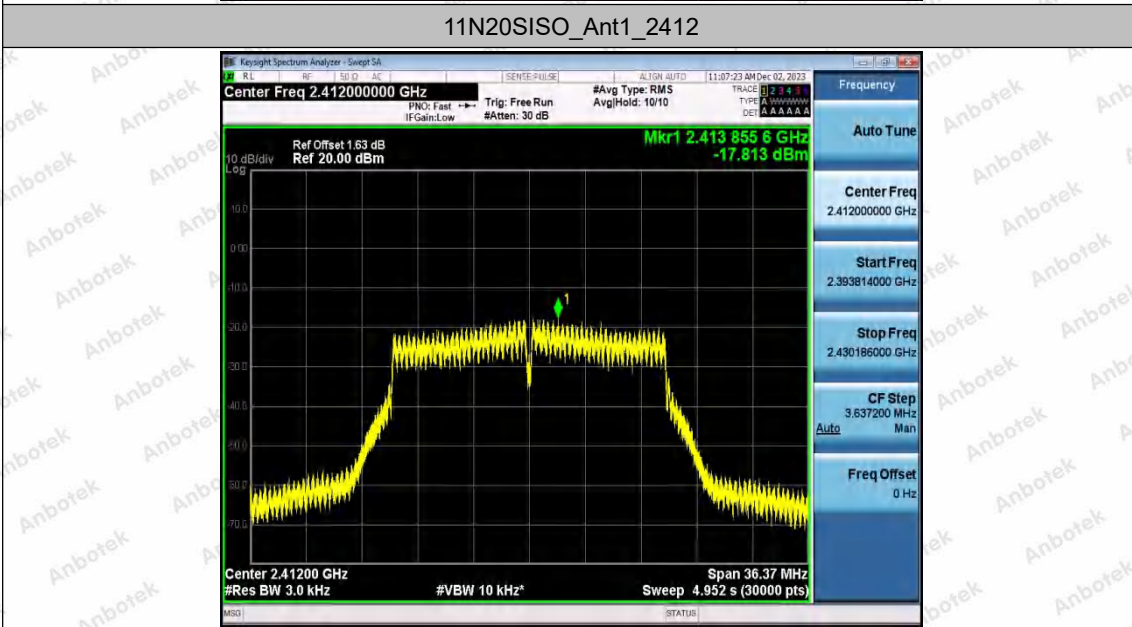
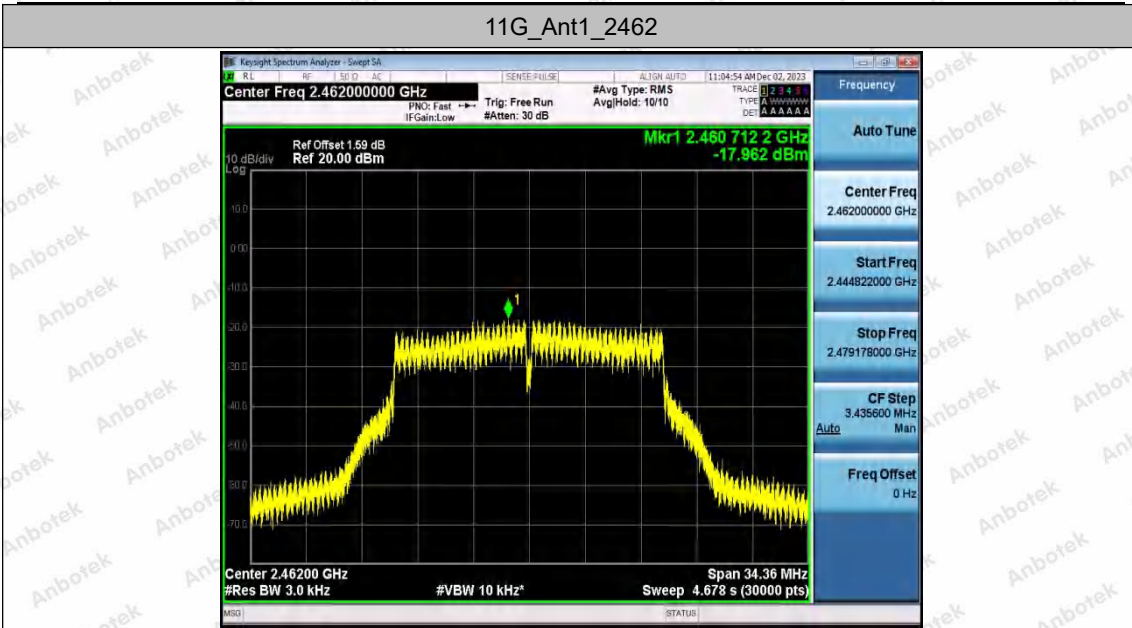


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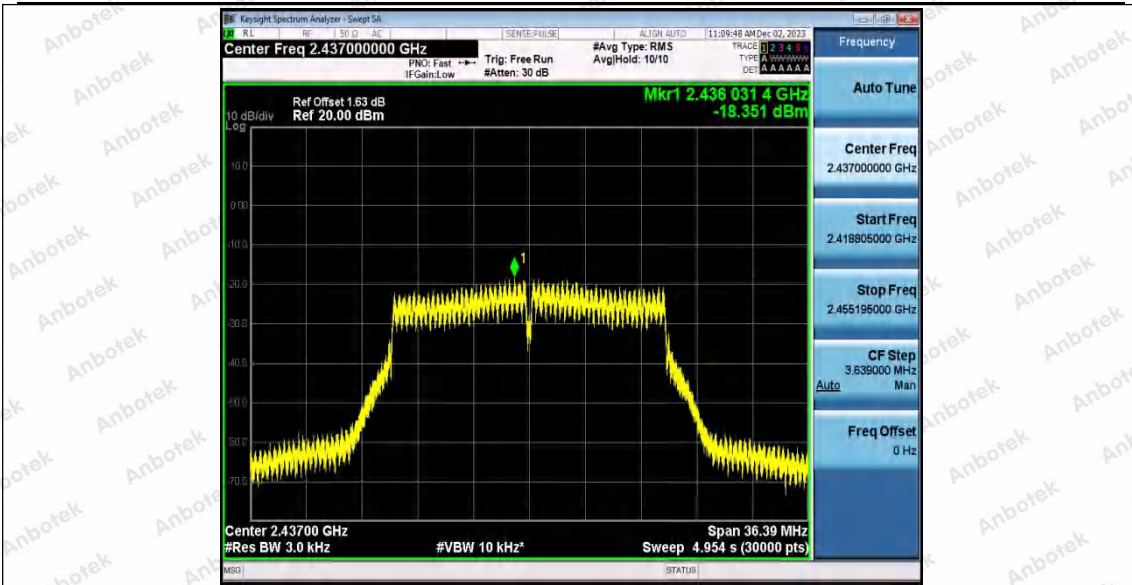
**11N20SISO\_Ant1\_2437**

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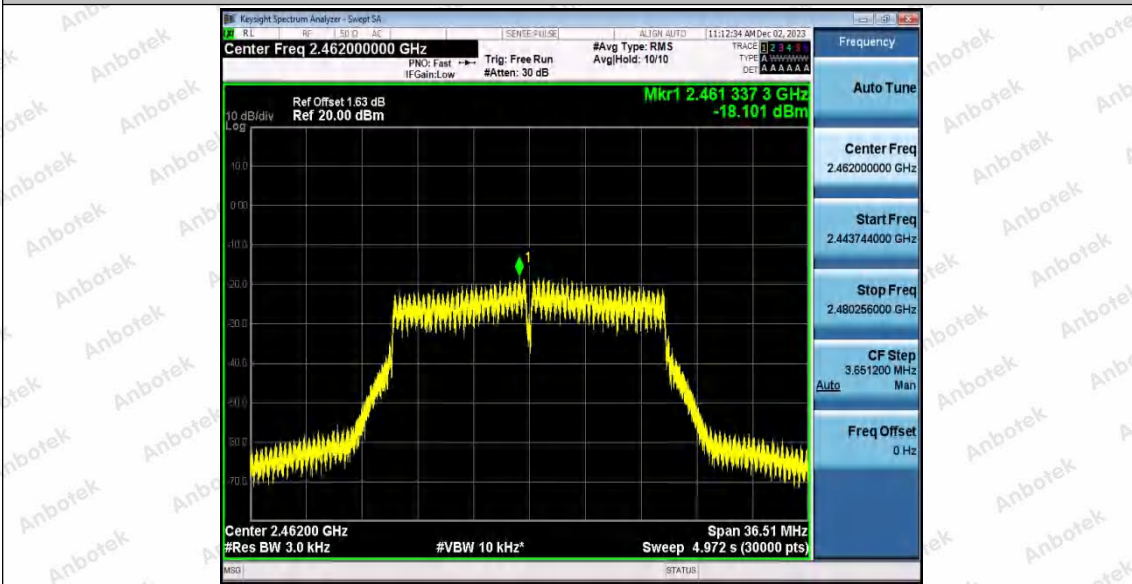
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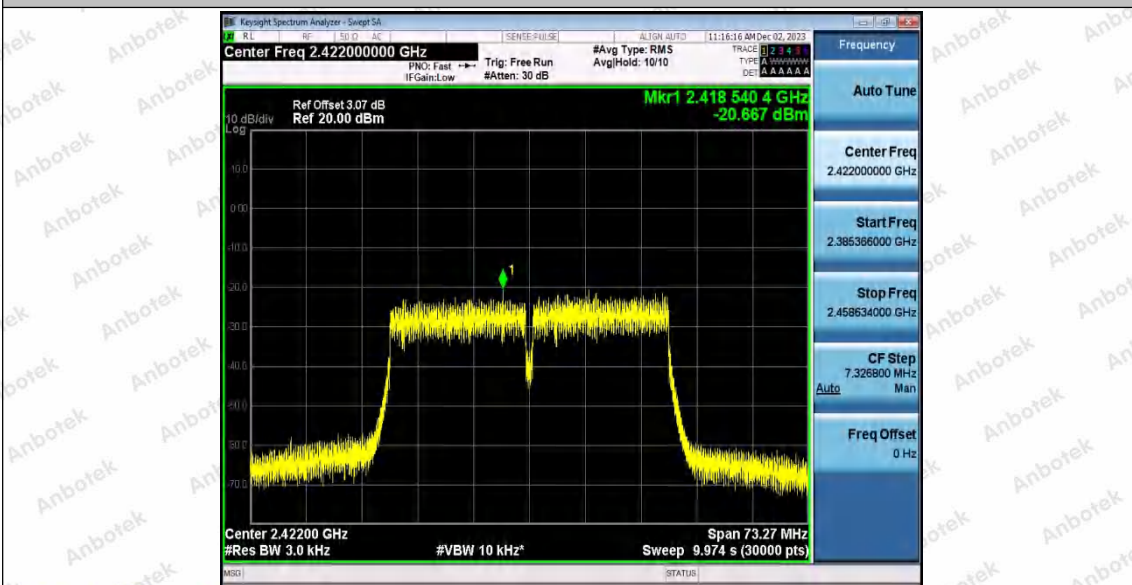




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



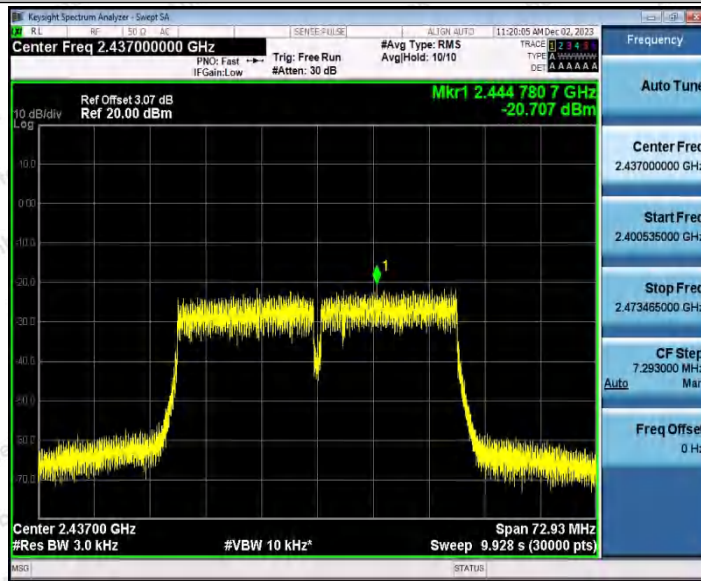
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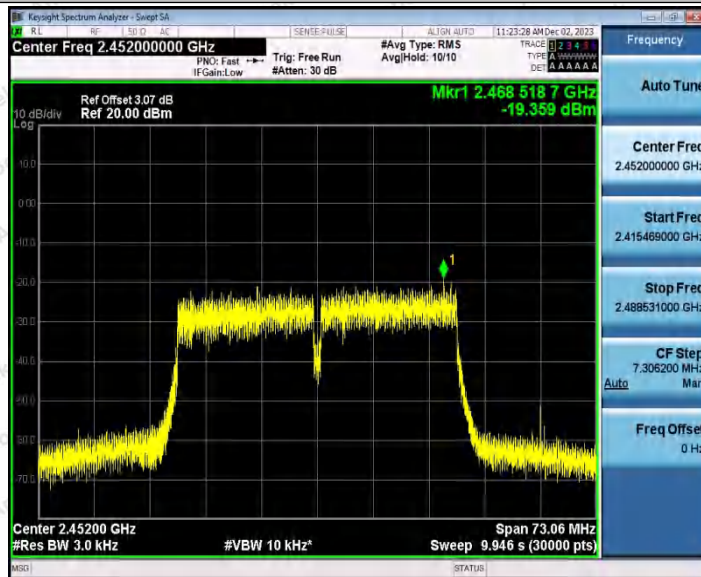
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.13	-47.21	≤-24.87	PASS
		High	2462	4.55	-49.97	≤-25.46	PASS
11G	Ant1	Low	2412	0.24	-36.99	≤-29.77	PASS
		High	2462	1.20	-47.41	≤-28.8	PASS
11N20SIS O	Ant1	Low	2412	0.84	-33.9	≤-29.16	PASS
		High	2462	0.95	-44.22	≤-29.05	PASS
11N40SIS O	Ant1	Low	2422	-1.77	-36.58	≤-31.77	PASS
		High	2452	-1.09	-36.32	≤-31.09	PASS

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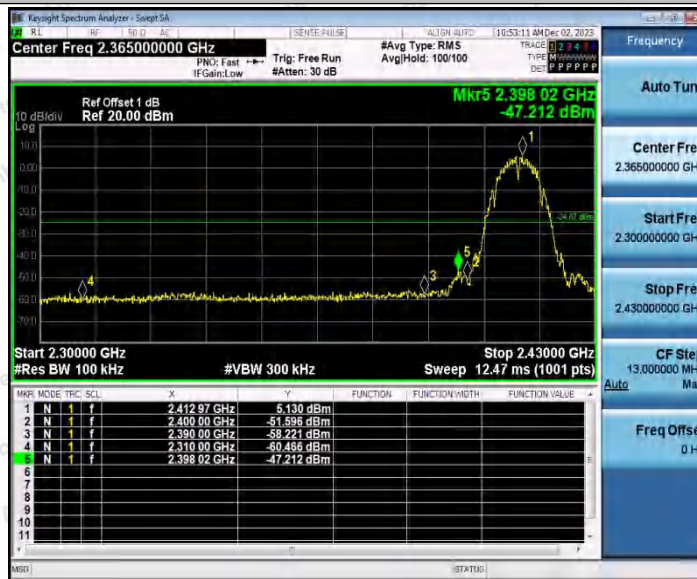


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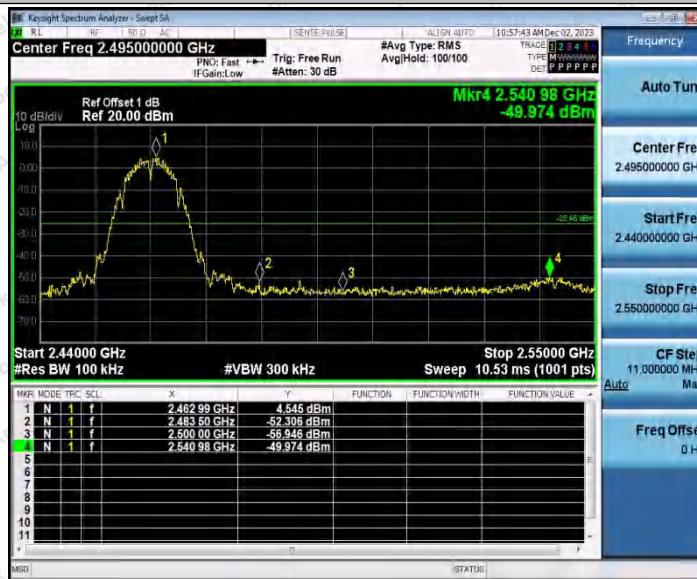


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



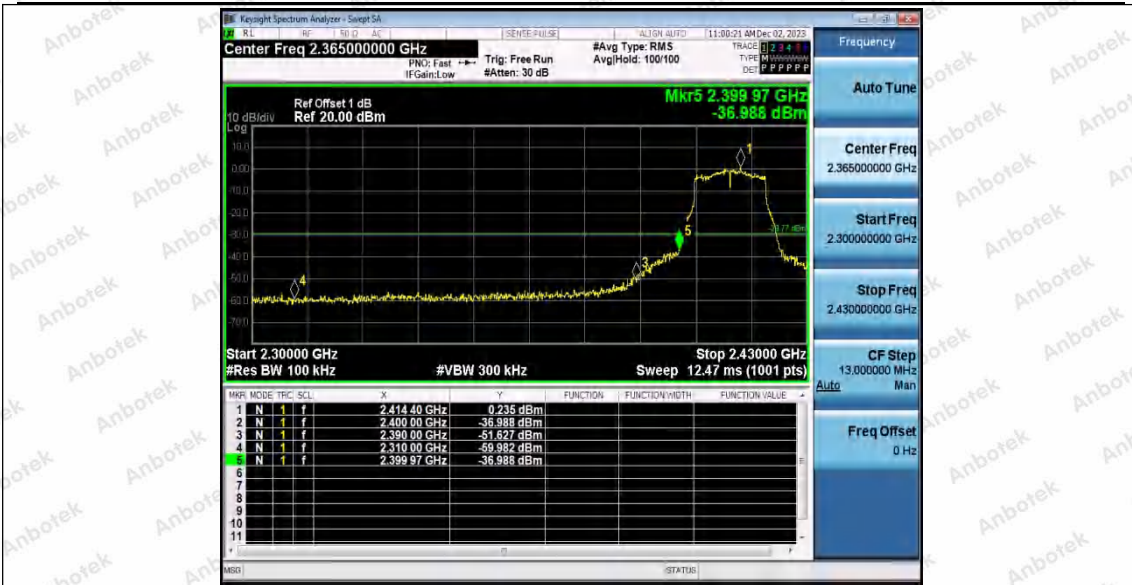
11G\_Ant1\_Low\_2412

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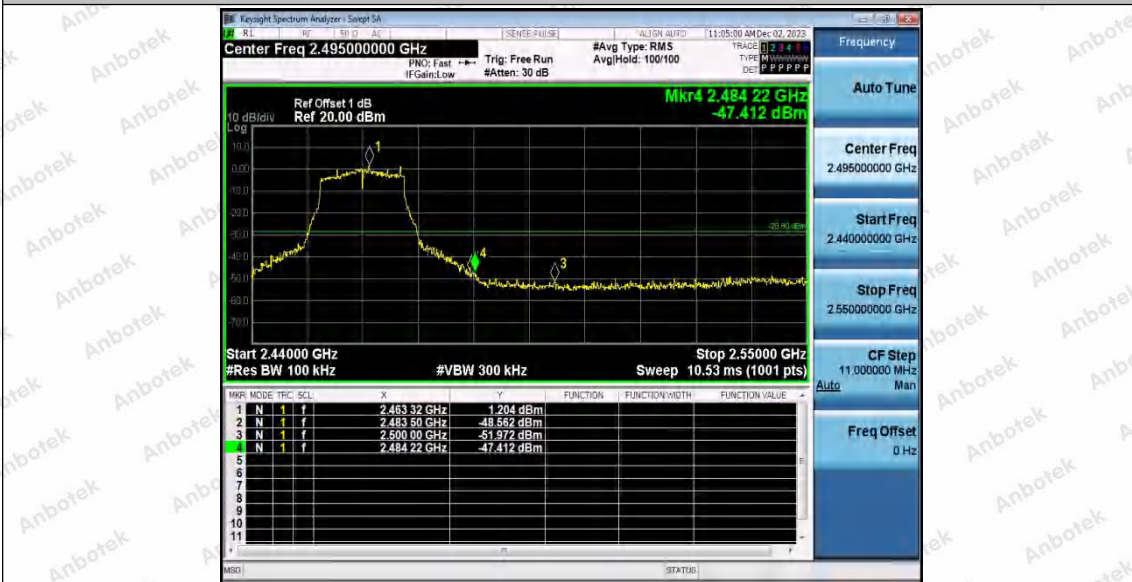
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11G\_Ant1\_High\_2462



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	5.07	5.07	---	PASS
			30~1000	5.07	-69	≤-24.93	PASS
			1000~26500	5.07	-50.13	≤-24.93	PASS
		2437	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-69.66	≤-26.03	PASS
			1000~26500	3.97	-51.22	≤-26.03	PASS
		2462	Reference	3.35	3.35	---	PASS
			30~1000	3.35	-69.25	≤-26.65	PASS
			1000~26500	3.35	-52.55	≤-26.65	PASS
11G	Ant1	2412	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-69.33	≤-30.47	PASS
			1000~26500	-0.47	-50.88	≤-30.47	PASS
		2437	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-69.55	≤-30.49	PASS
			1000~26500	-0.49	-51.12	≤-30.49	PASS
		2462	Reference	-0.40	-0.40	---	PASS
			30~1000	-0.40	-69.31	≤-30.4	PASS
			1000~26500	-0.40	-50.38	≤-30.4	PASS
11N20SISO	Ant1	2412	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-68.65	≤-27.97	PASS
			1000~26500	2.03	-50.43	≤-27.97	PASS
		2437	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-68.38	≤-29.54	PASS
			1000~26500	0.46	-51.03	≤-29.54	PASS
		2462	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-69.65	≤-29.3	PASS
			1000~26500	0.70	-50.44	≤-29.3	PASS
11N40SISO	Ant1	2422	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-69.19	≤-32.23	PASS
			1000~26500	-2.23	-54.13	≤-32.23	PASS
		2437	Reference	-3.44	-3.44	---	PASS
			30~1000	-3.44	-68.55	≤-33.44	PASS
			1000~26500	-3.44	-53.87	≤-33.44	PASS
		2452	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-68.9	≤-32.09	PASS
			1000~26500	-2.09	-53.61	≤-32.09	PASS

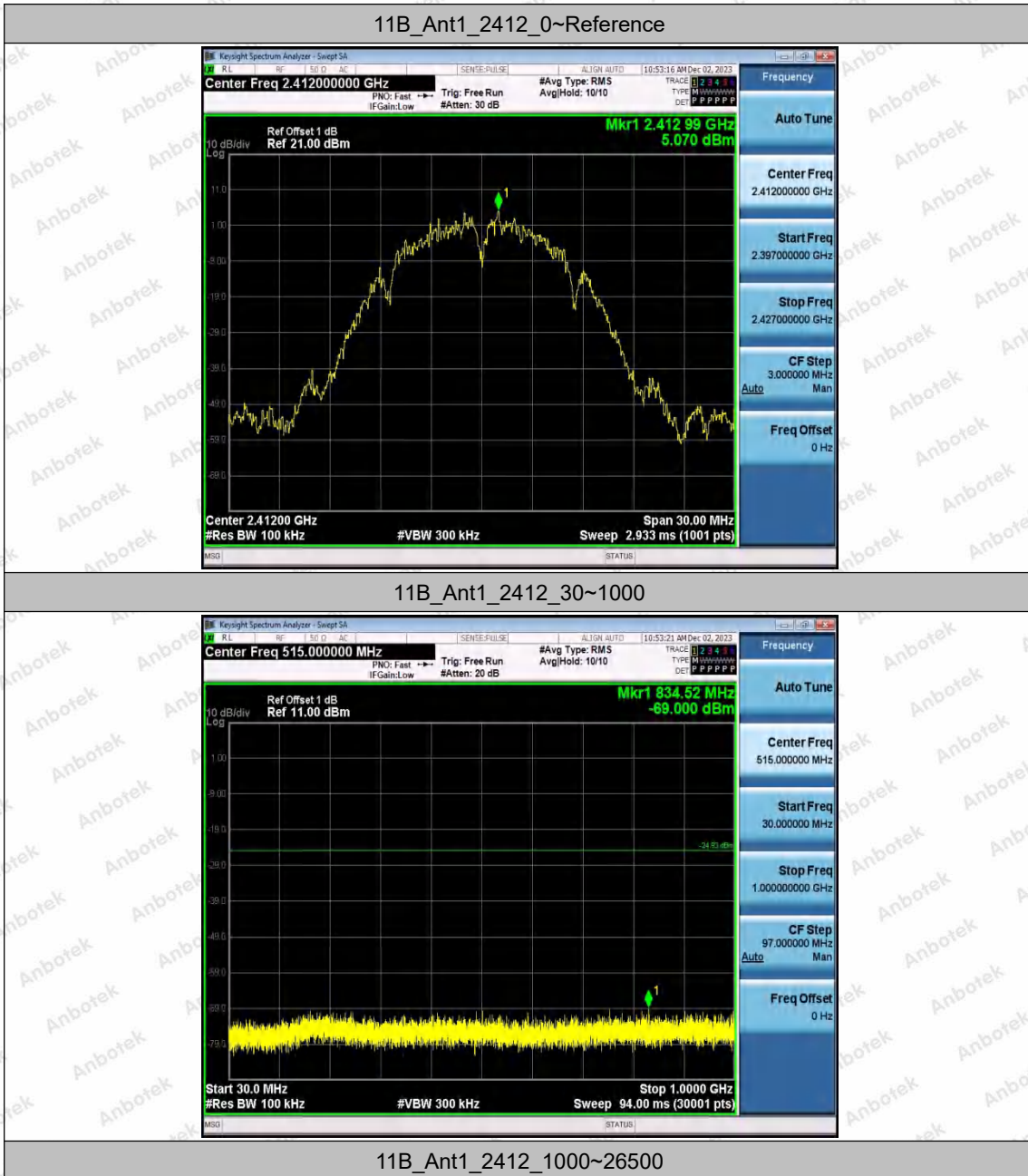
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## Test Graphs

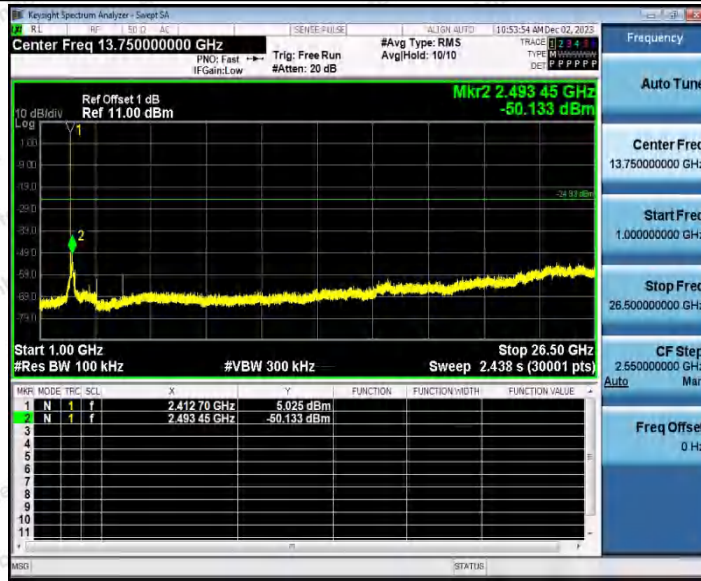


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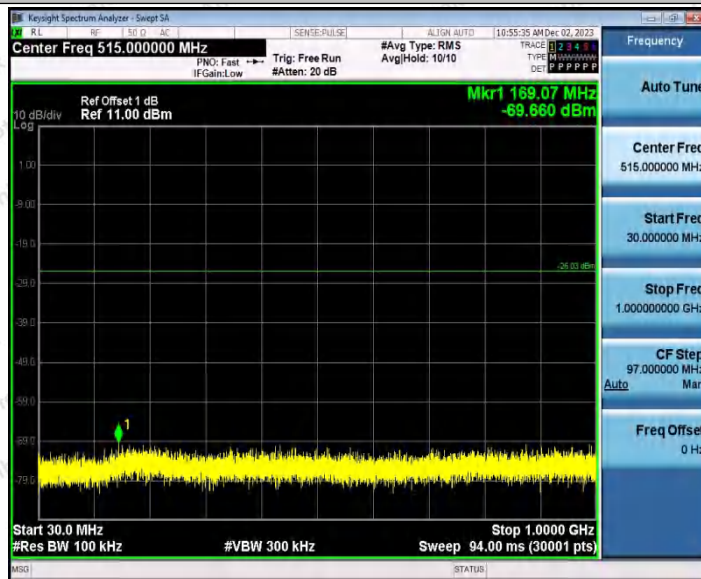




11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



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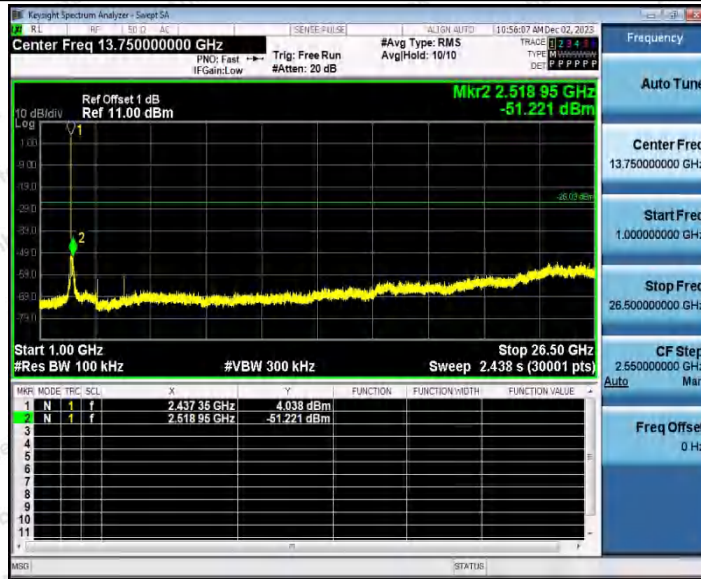
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference



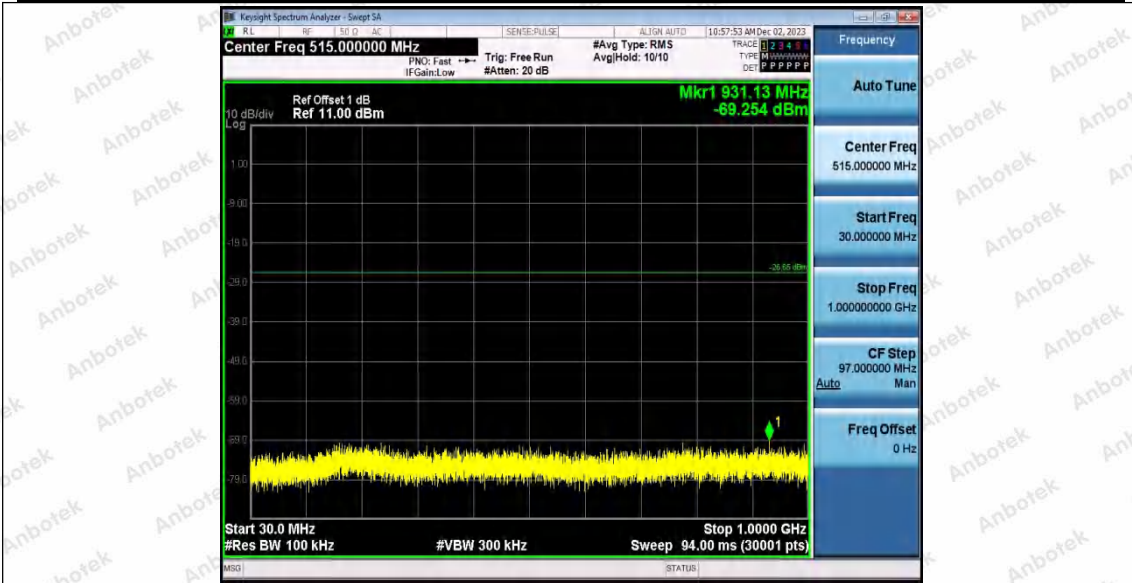
11B\_Ant1\_2462\_30~1000

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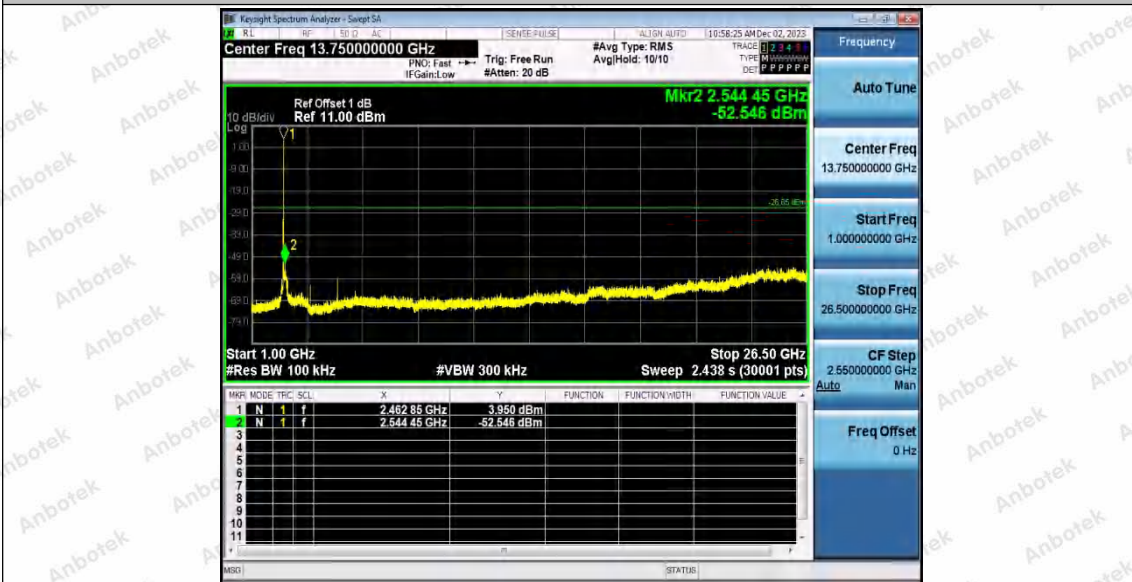
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11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference



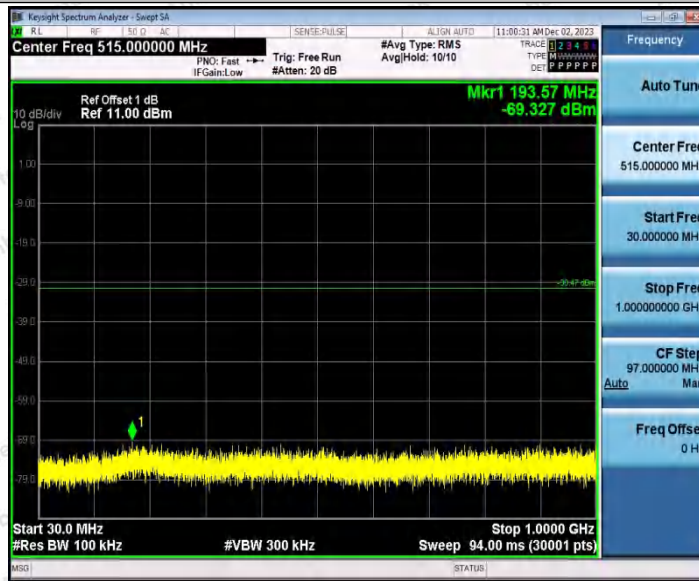
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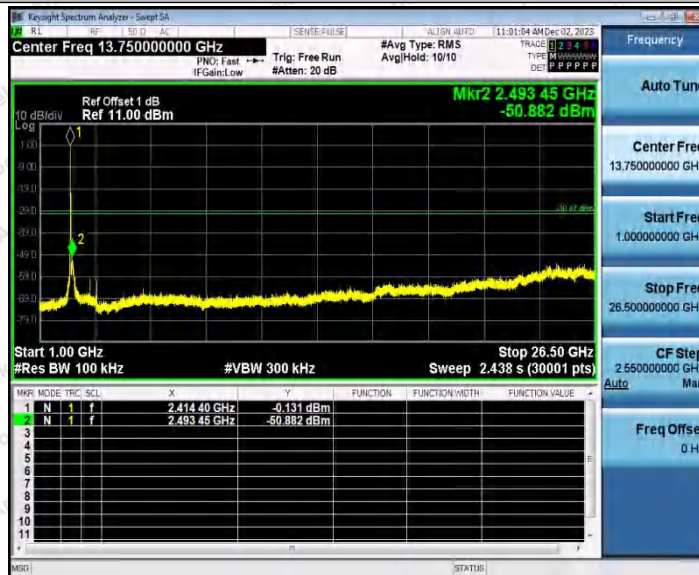
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### 11G\_Ant1\_2412\_30~1000



### 11G\_Ant1\_2412\_1000~26500



### 11G\_Ant1\_2437\_0~Reference

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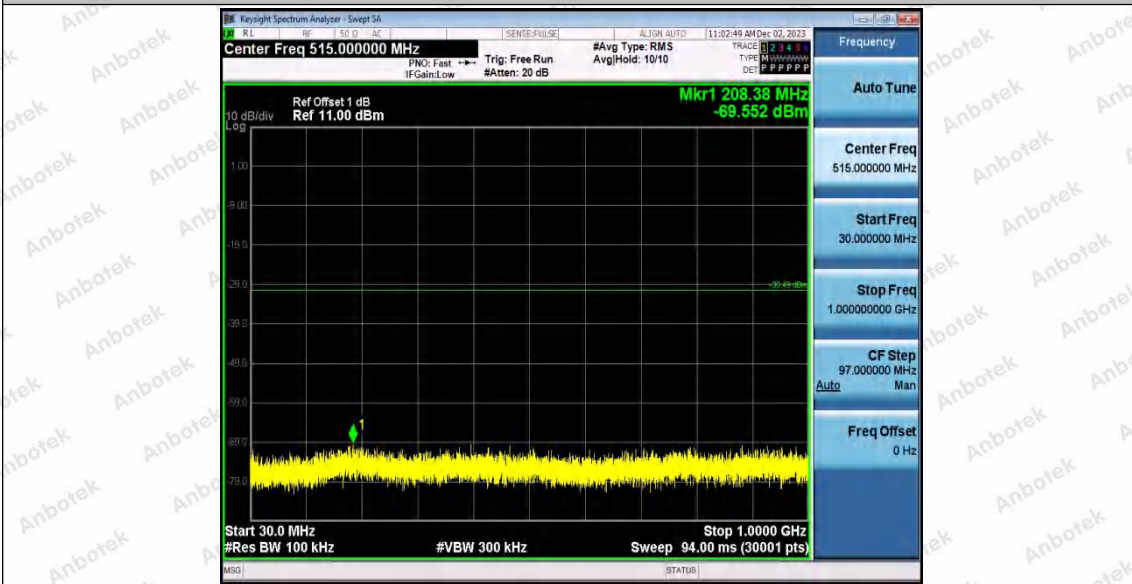
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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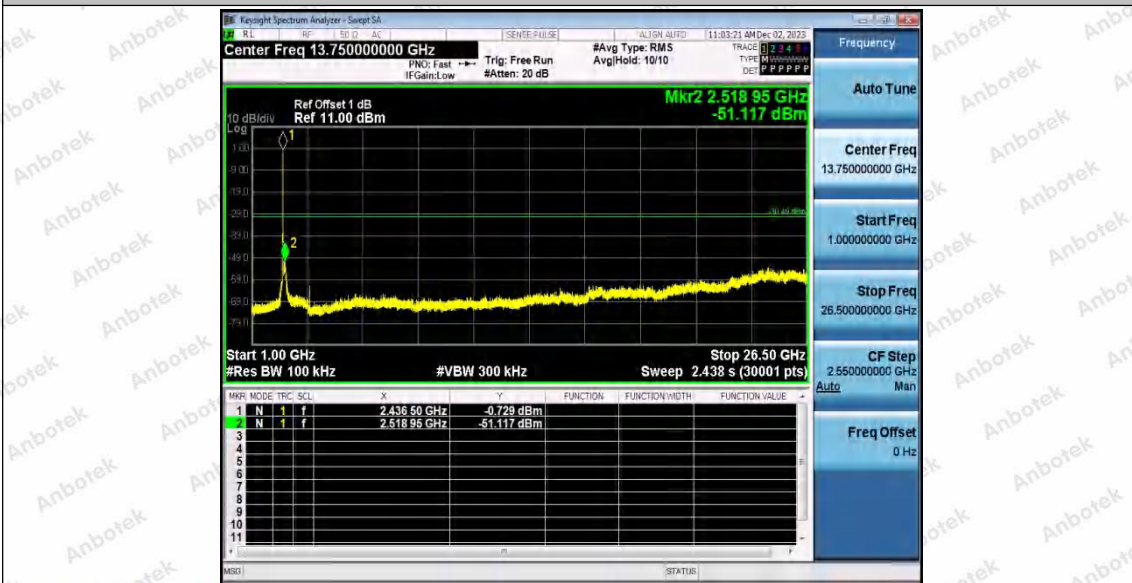




11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



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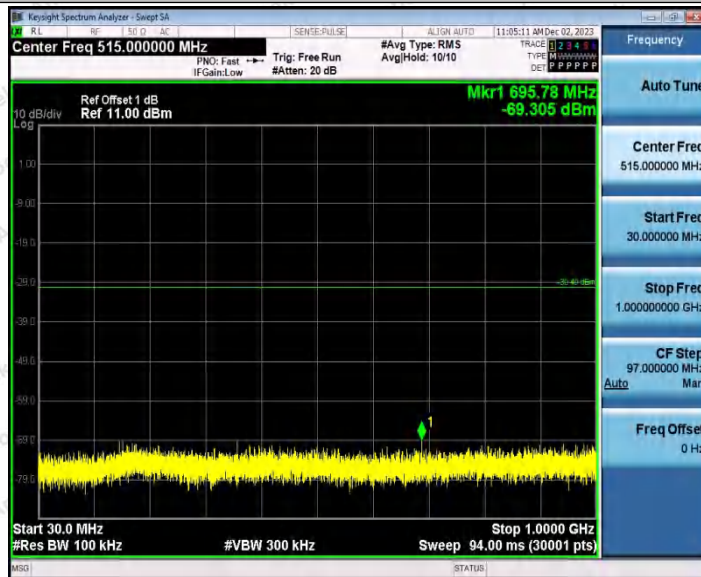
Hotline 400-003-0500  
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### 11G\_Ant1\_2462\_0~Reference



### 11G\_Ant1\_2462\_30~1000



### 11G\_Ant1\_2462\_1000~26500

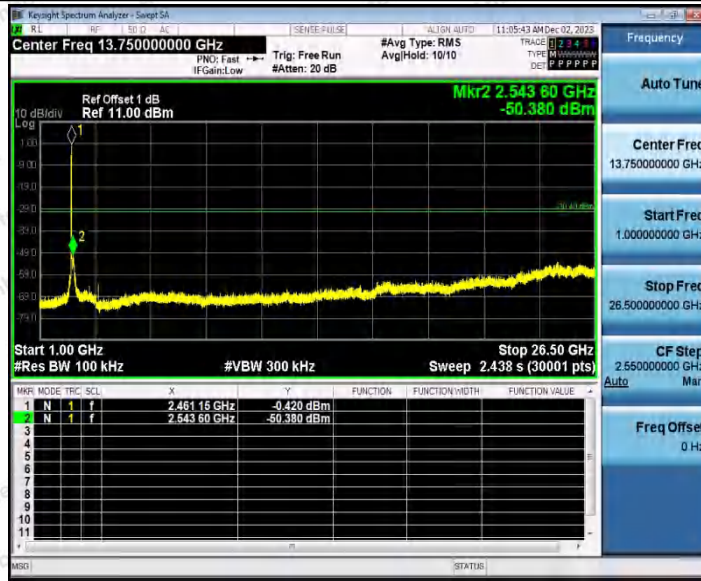
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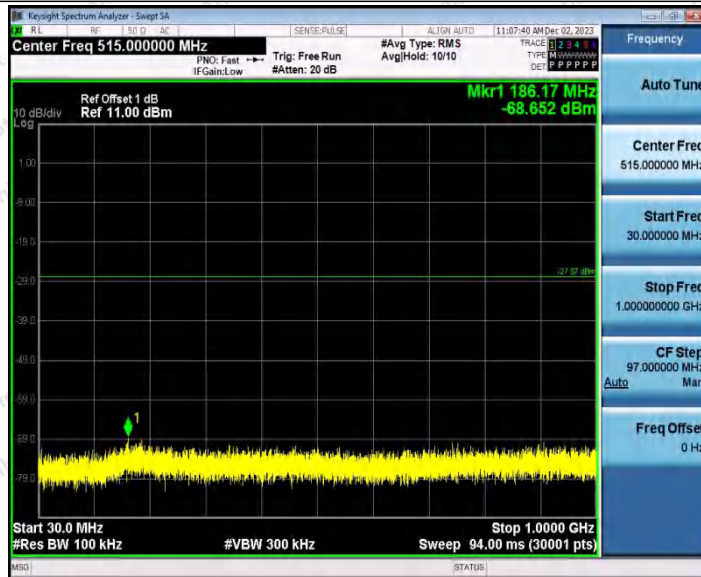




11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



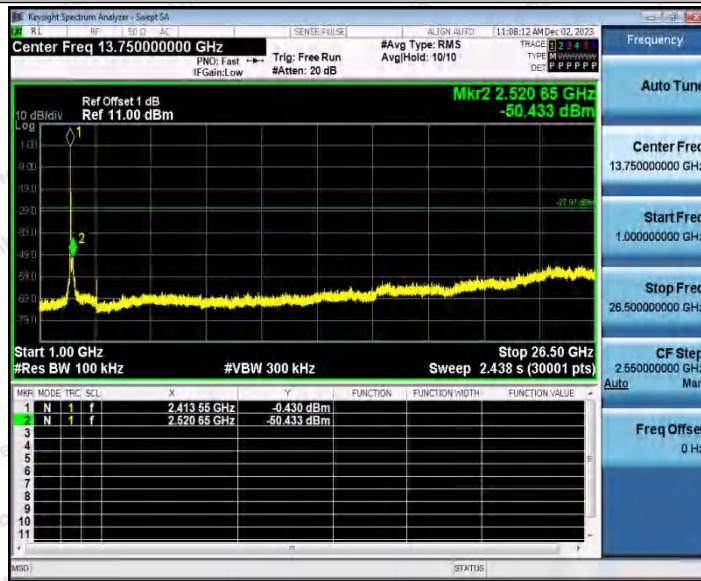
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11N20SISO\_Ant1\_2412\_1000~26500



11N20SISO\_Ant1\_2437\_0~Reference



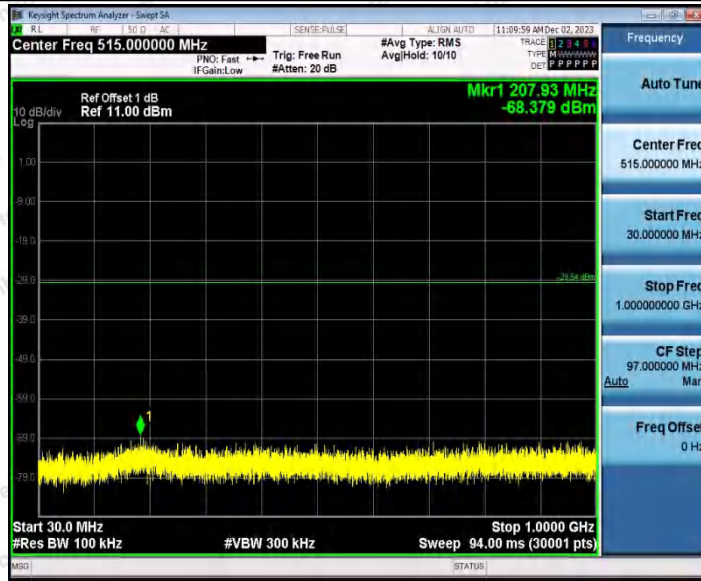
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## Shenzhen Anbotek Compliance Laboratory Limited

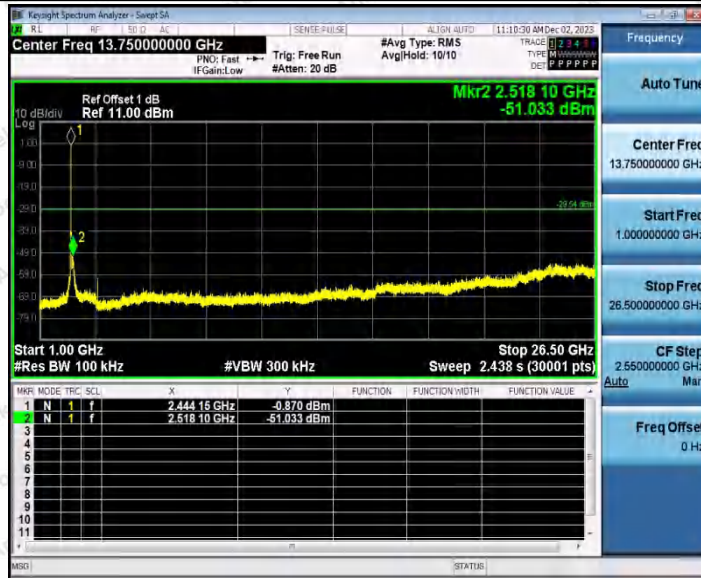
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



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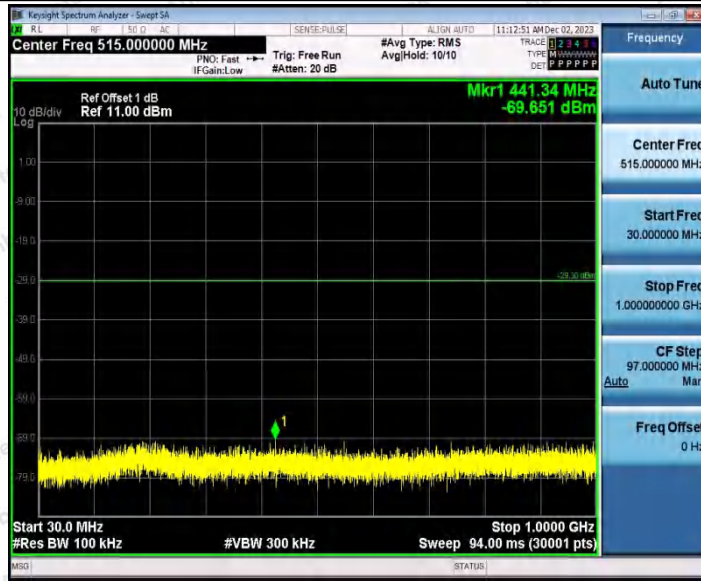
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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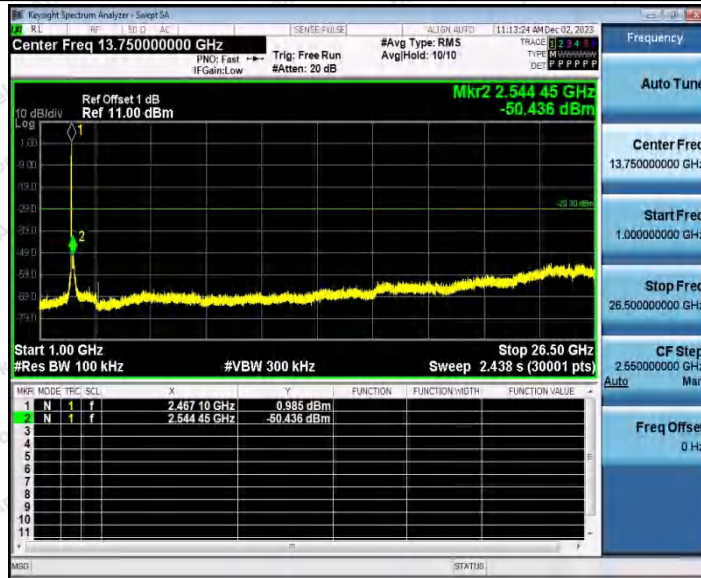




11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference

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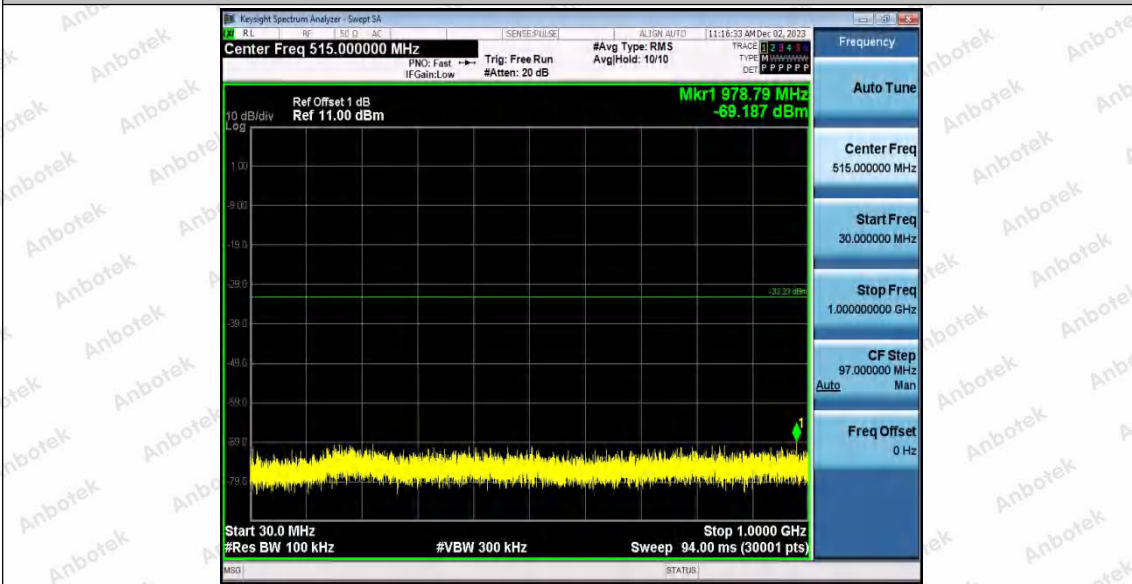
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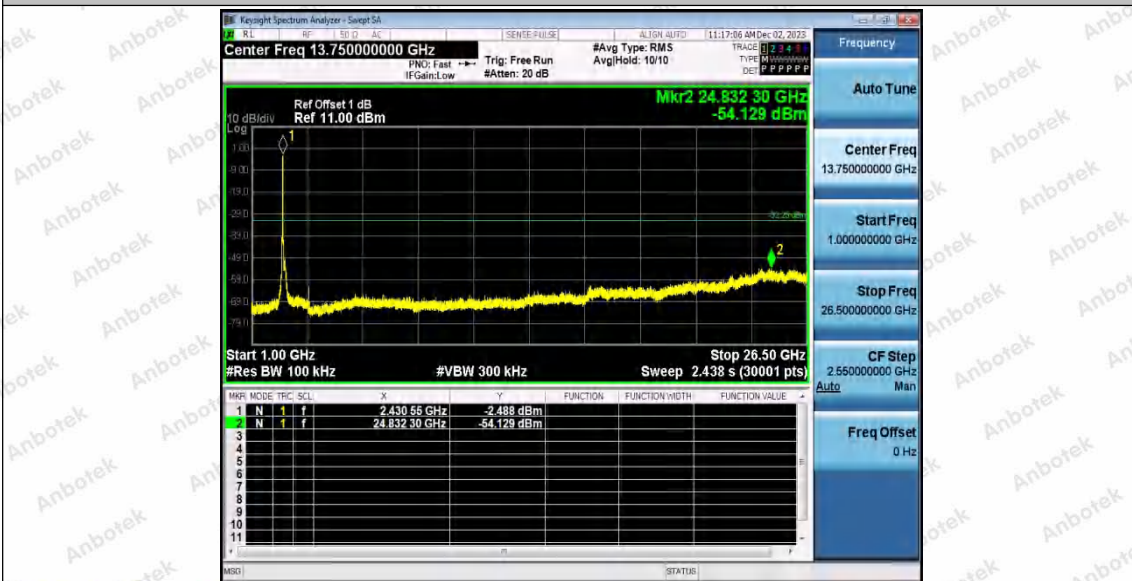




11N40SISO\_Ant1\_2422\_30~1000



11N40SISO\_Ant1\_2422\_1000~26500



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11N40SISO\_Ant1\_2437\_0~Reference



11N40SISO\_Ant1\_2437\_30~1000



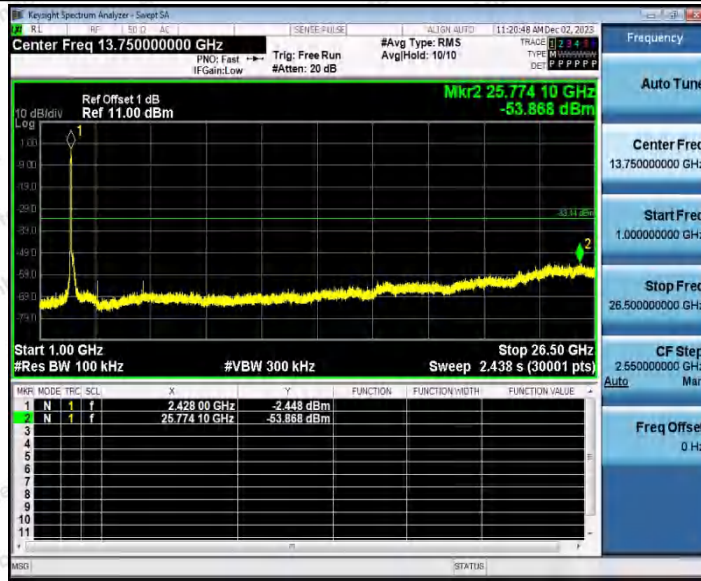
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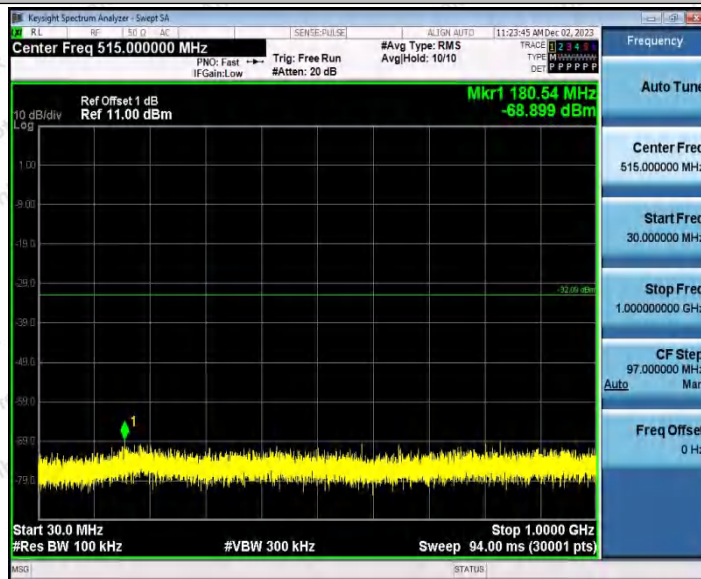




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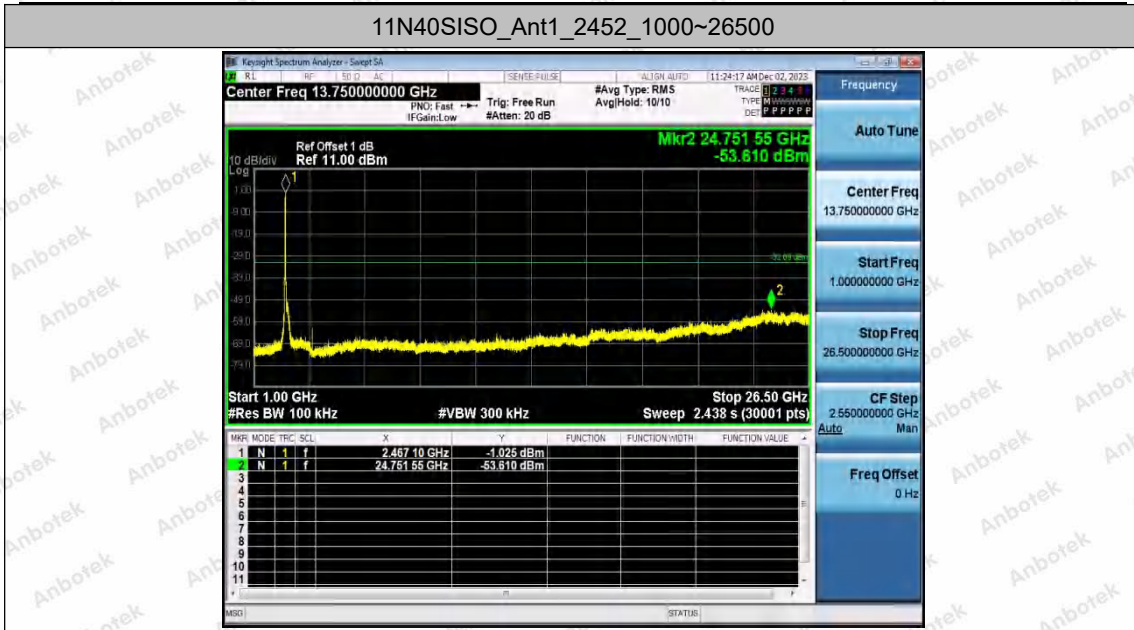


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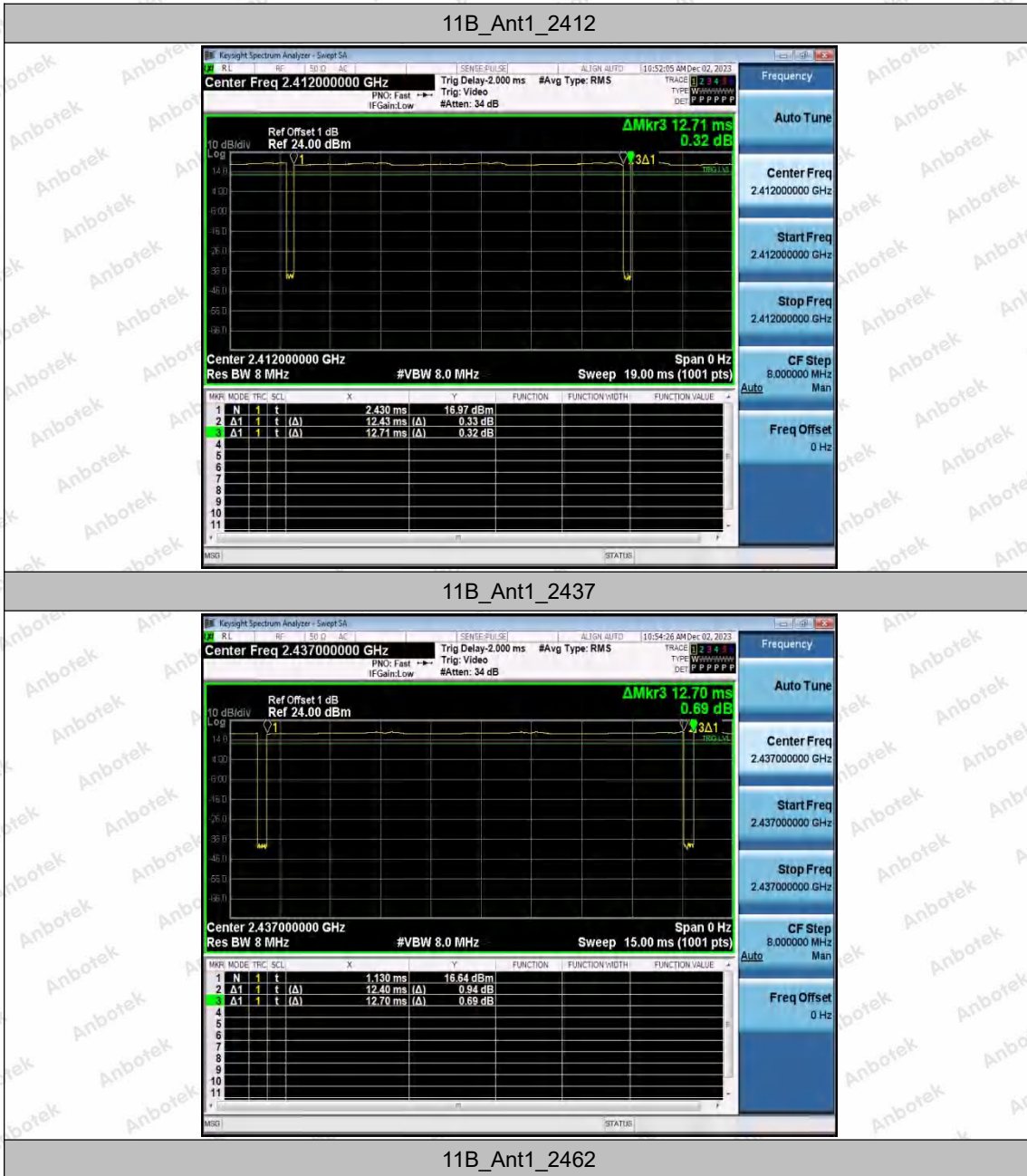
## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.71	97.80	0.10
		2437	12.40	12.70	97.64	0.10
		2462	12.41	12.71	97.64	0.10
11G	Ant1	2412	2.06	2.36	87.29	0.59
		2437	2.07	2.37	87.34	0.59
		2462	2.06	2.36	87.29	0.59
11N20SISO	Ant1	2412	1.91	2.21	86.43	0.63
		2437	1.92	2.22	86.49	0.63
		2462	1.92	2.22	86.49	0.63
11N40SISO	Ant1	2422	0.49	0.79	62.03	2.07
		2437	0.49	0.79	62.03	2.07
		2452	0.49	0.79	62.03	2.07



## Test Graphs

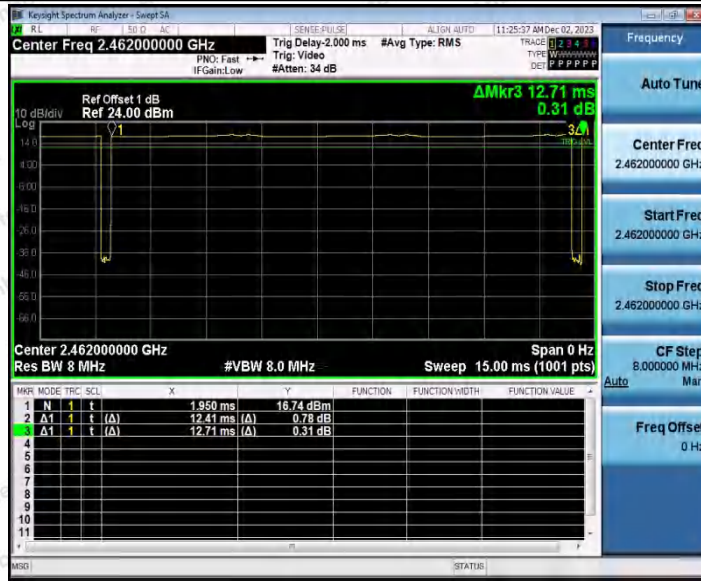


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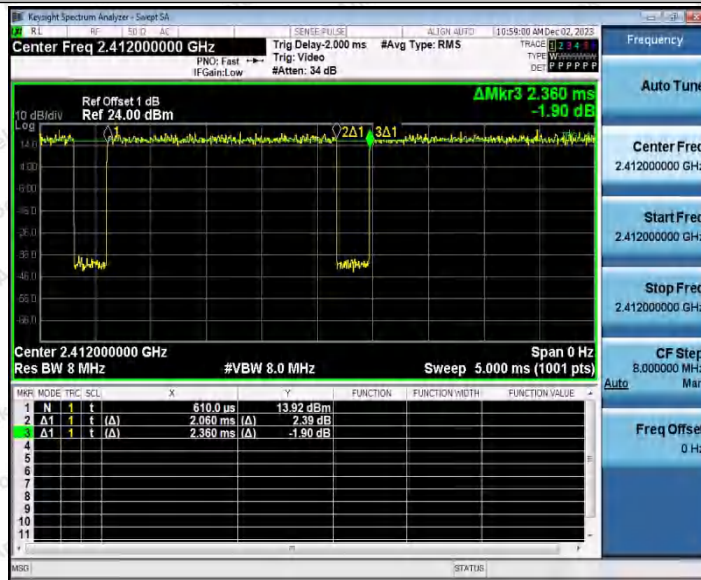
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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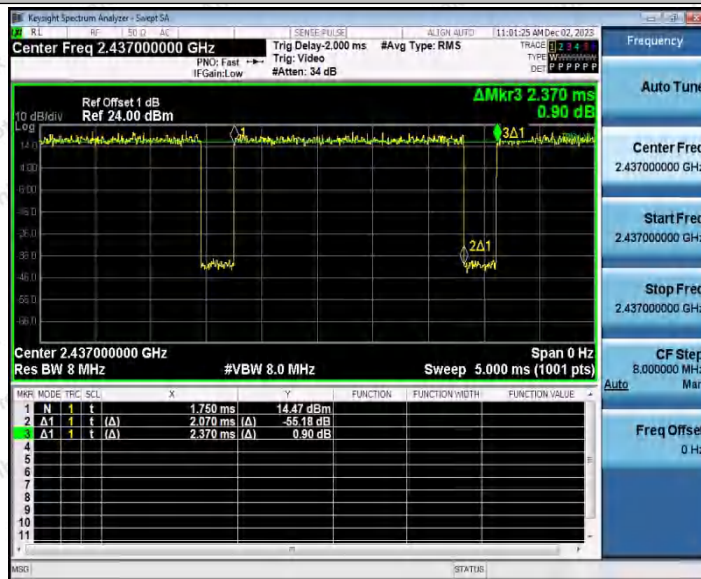




11G\_Ant1\_2412



11G\_Ant1\_2437



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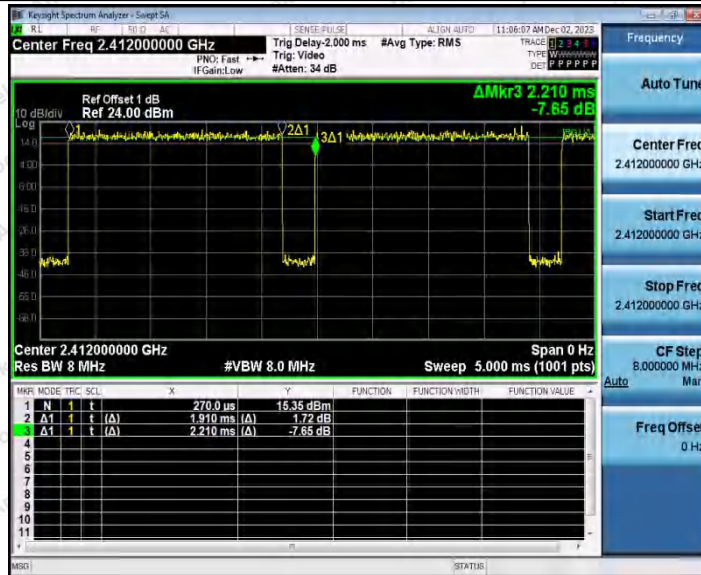




### 11G\_Ant1\_2462



### 11N20SISO\_Ant1\_2412



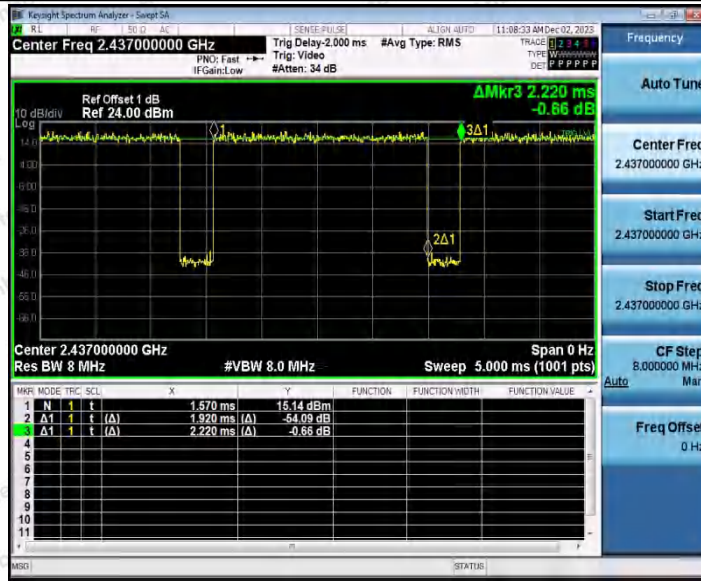
### 11N20SISO\_Ant1\_2437

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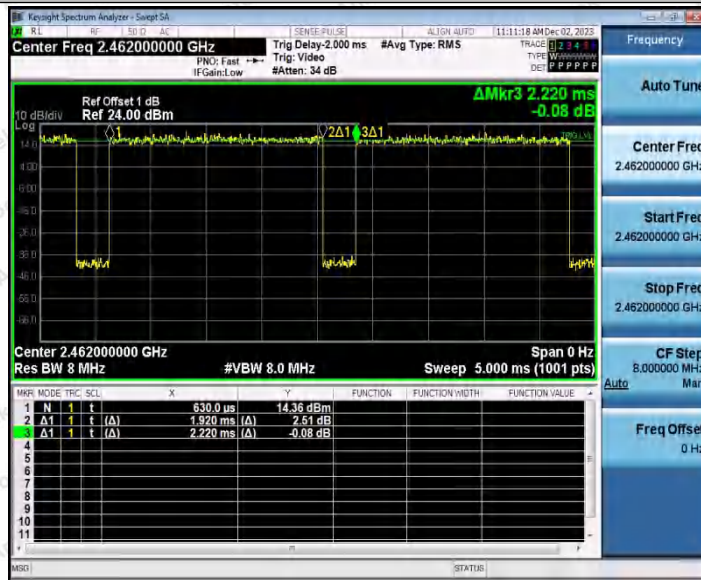
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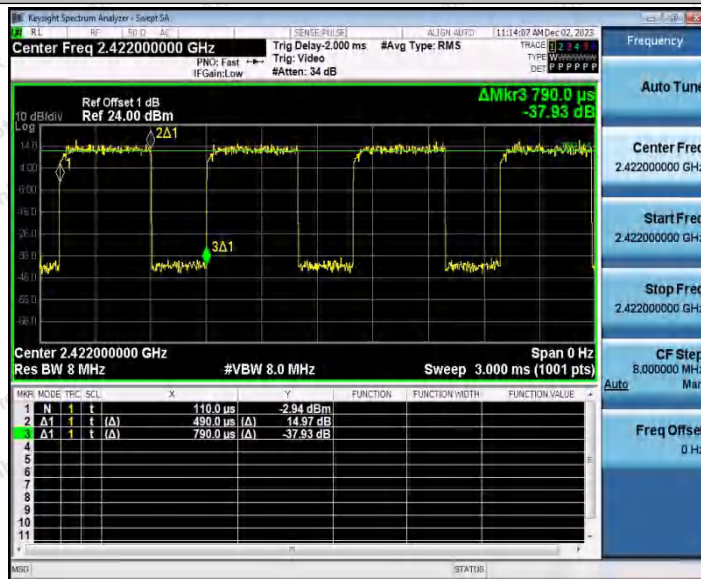




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



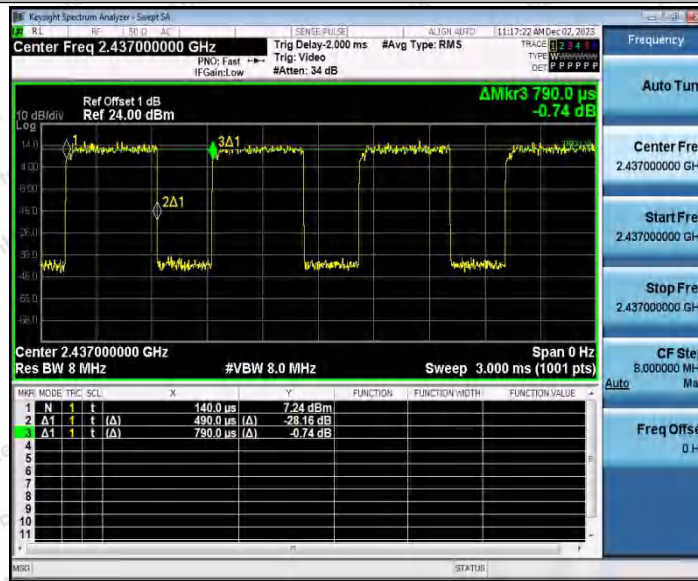
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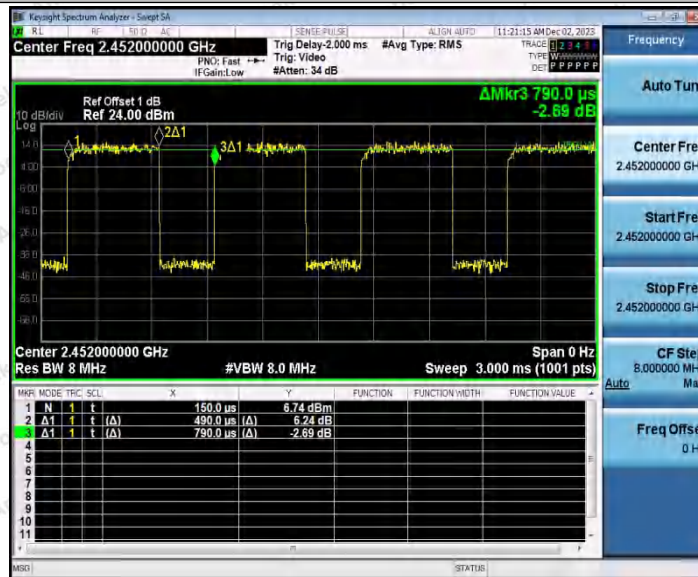
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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



---End---

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