

## Appendix Test Data

Report No.:	18220WC30245702 module1	Test Sample No.:	1-2-2
Start Test Date:	2023.11.27	Finish Test Date:	2023.11.28
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	40%
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	7.000	2408.480	2415.480	0.5	PASS
		2437	7.000	2433.480	2440.480	0.5	PASS
		2462	7.480	2458.480	2465.960	0.5	PASS
11G	Ant1	2412	16.320	2403.800	2420.120	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.280	2453.840	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	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	35.760	2419.400	2455.160	0.5	PASS
		2452	36.400	2433.840	2470.240	0.5	PASS

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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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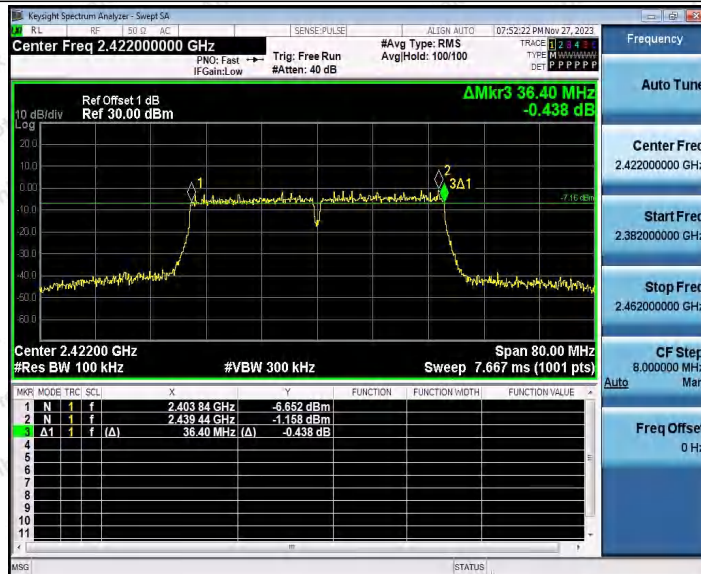




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



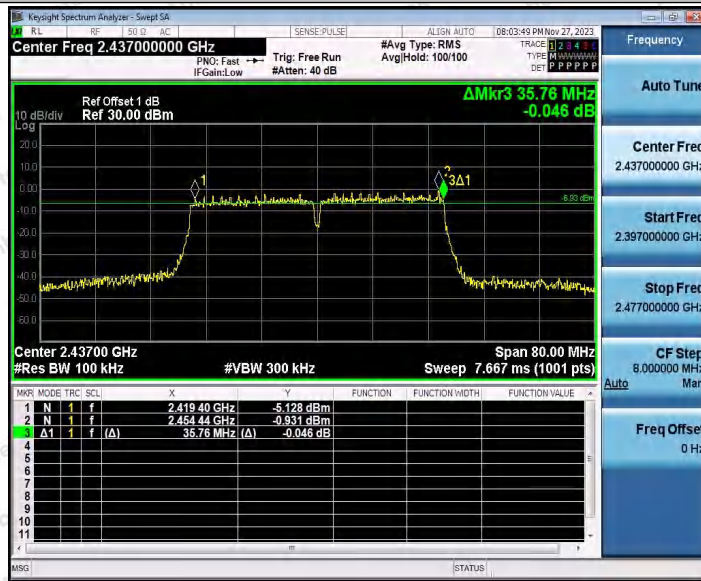
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11N40SISO\_Ant1\_2437



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	11.884	2406.1004	2417.9844	---	---
		2437	11.504	2431.3537	2442.8577	---	---
		2462	11.496	2456.3788	2467.8748	---	---
11G	Ant1	2412	17.141	2403.4734	2420.6144	---	---
		2437	17.175	2428.4425	2445.6175	---	---
		2462	17.078	2453.5219	2470.5999	---	---
11N20SISO	Ant1	2412	18.222	2402.9717	2421.1937	---	---
		2437	18.194	2427.9915	2446.1855	---	---
		2462	18.239	2452.9546	2471.1936	---	---
11N40SISO	Ant1	2422	36.494	2403.8963	2440.3903	---	---
		2437	36.462	2418.9437	2455.4057	---	---
		2452	36.533	2433.9227	2470.4557	---	---

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## Test Graphs



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11G\_Ant1\_2412



11G\_Ant1\_2437



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11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422

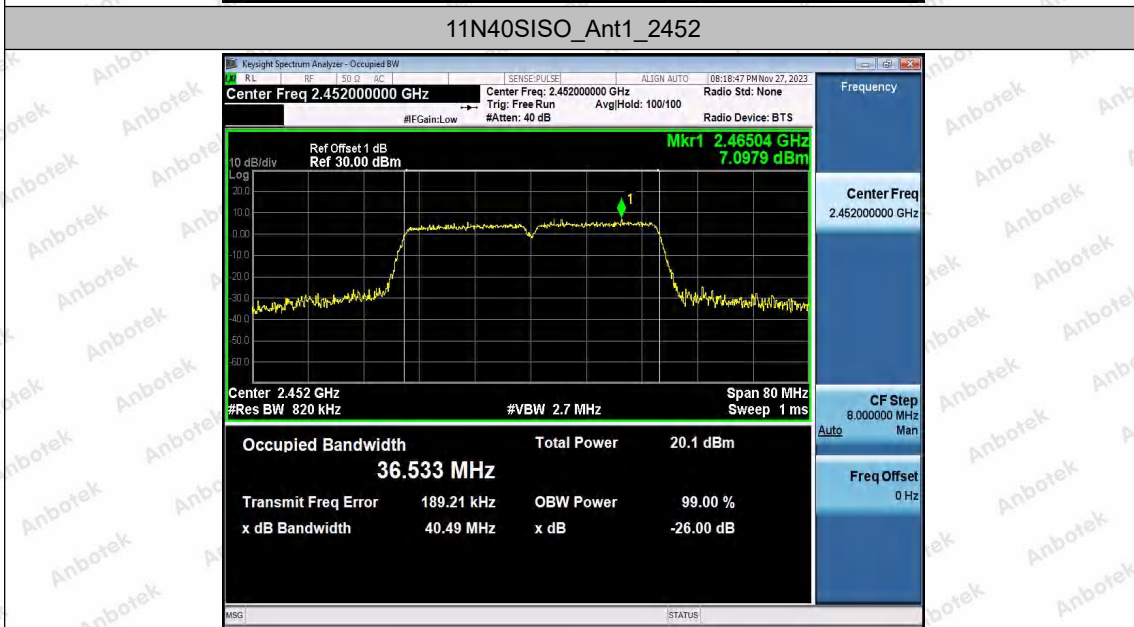
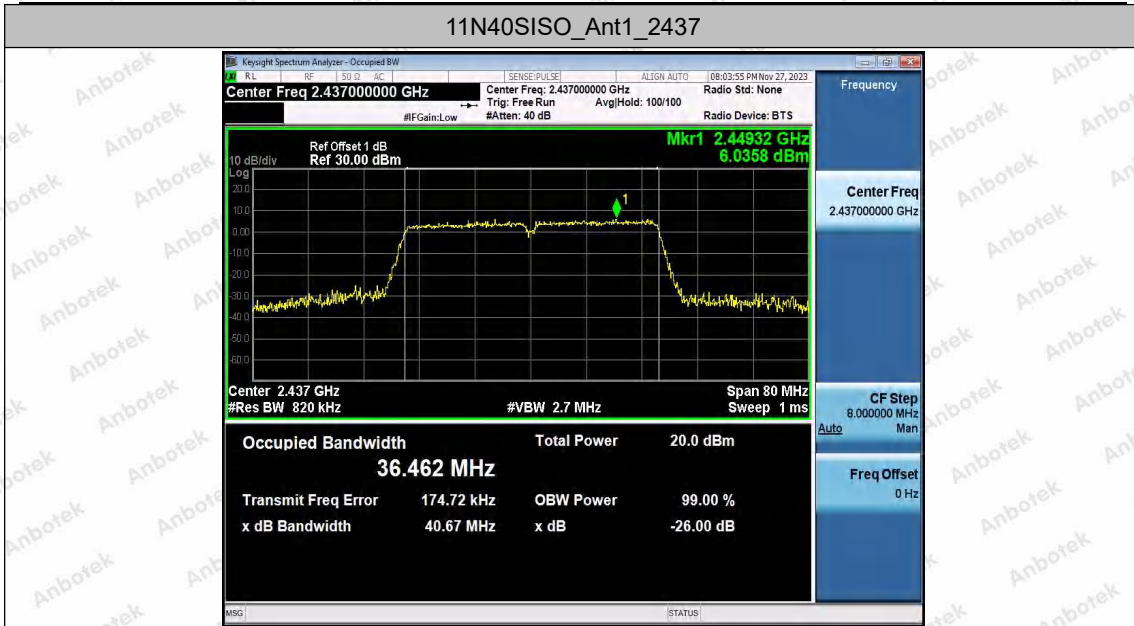


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## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.50	≤30.00
		2437	13.07	≤30.00
		2462	12.94	≤30.00
11G	Ant1	2412	12.88	≤30.00
		2437	13.15	≤30.00
		2462	13.23	≤30.00
11N20SISO	Ant1	2412	<b>13.94</b>	≤30.00
		2437	13.21	≤30.00
		2462	13.19	≤30.00
11N40SISO	Ant1	2422	13.50	≤30.00
		2437	13.53	≤30.00
		2452	13.75	≤30.00

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



## Test Graphs



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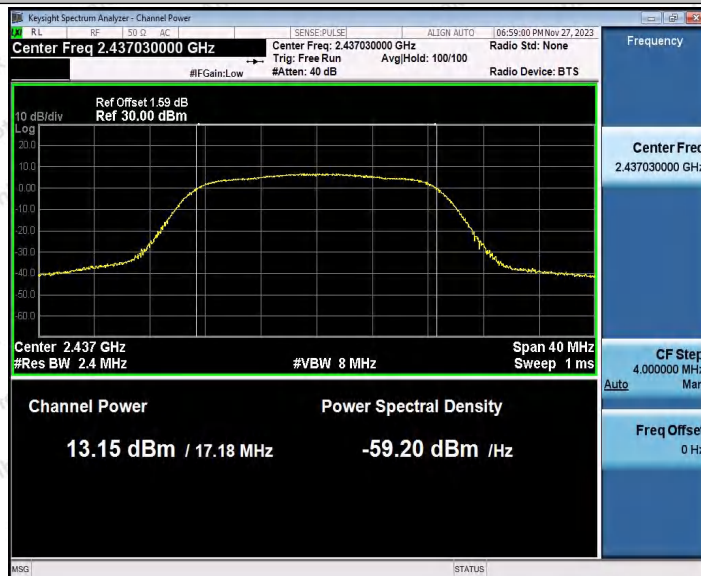




11G\_Ant1\_2412



11G\_Ant1\_2437

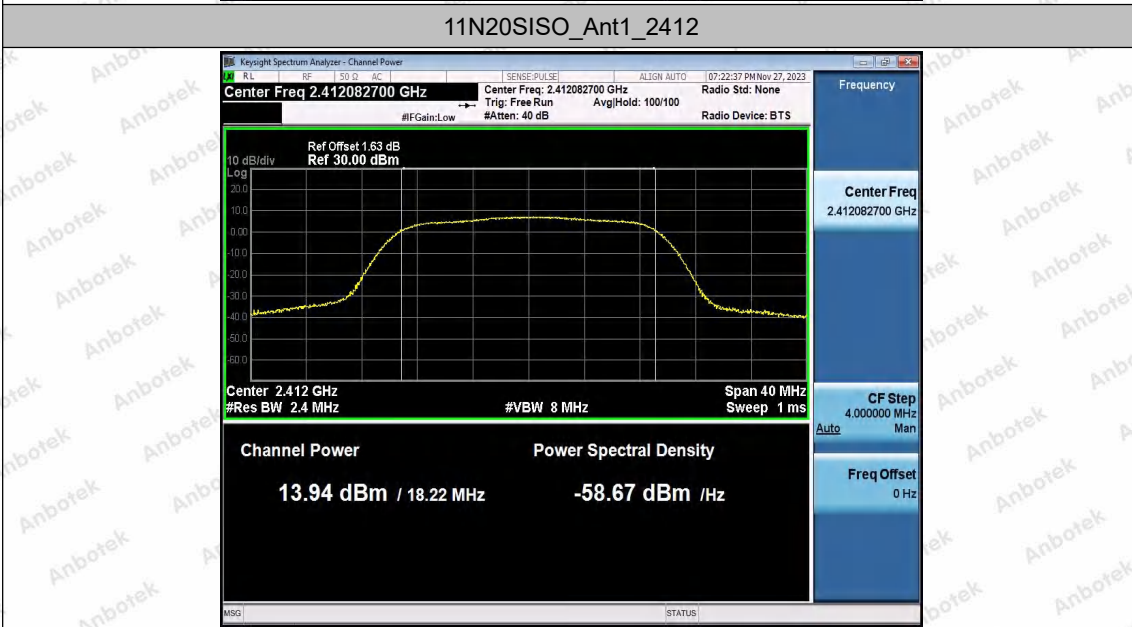
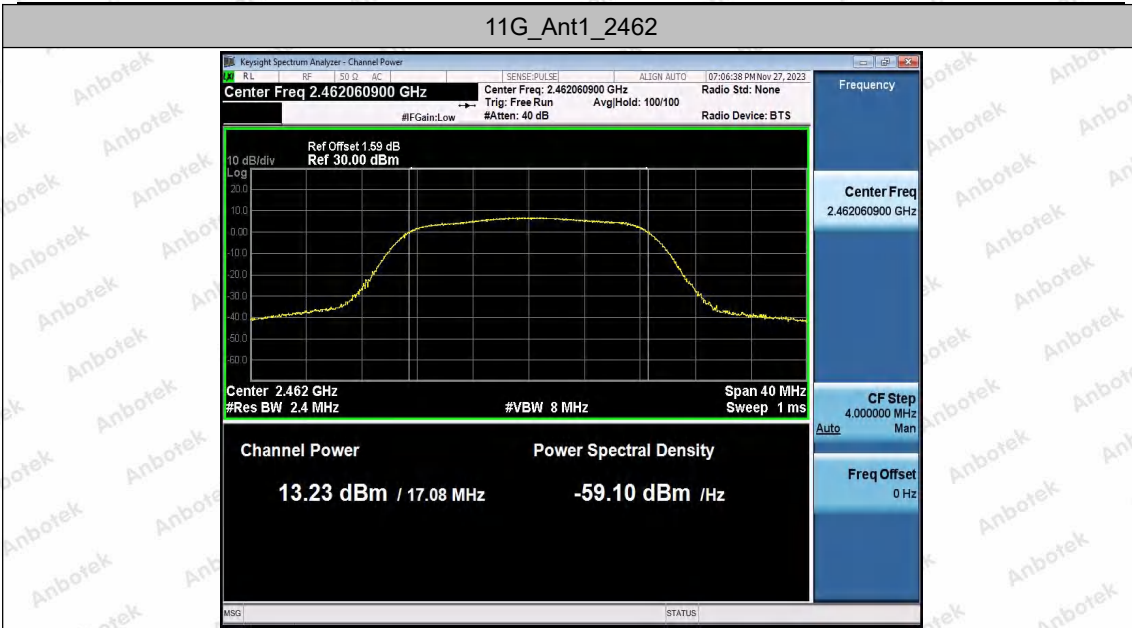


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**11N20SISO\_Ant1\_2437**

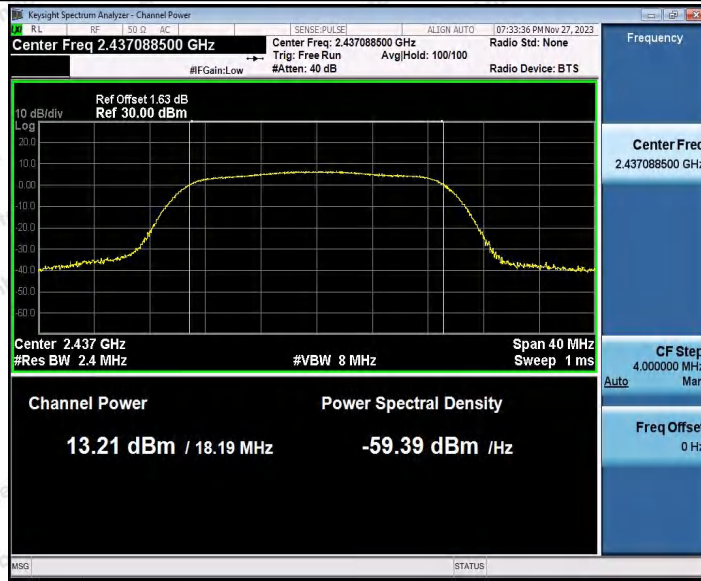
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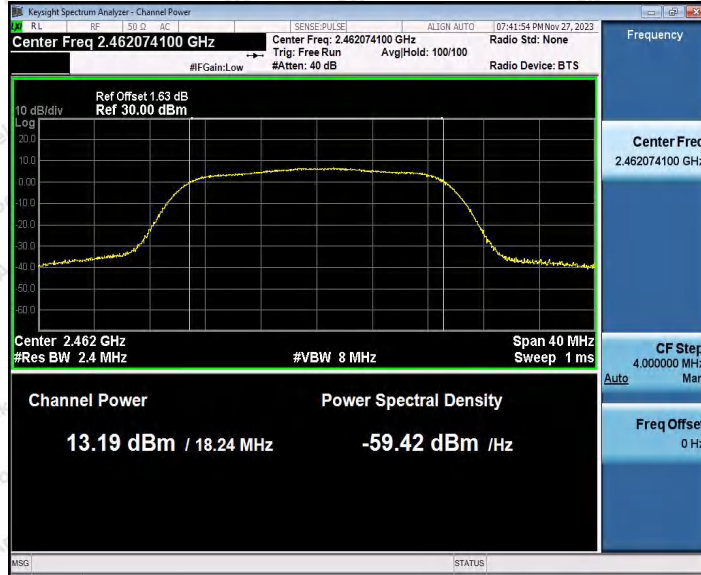
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11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



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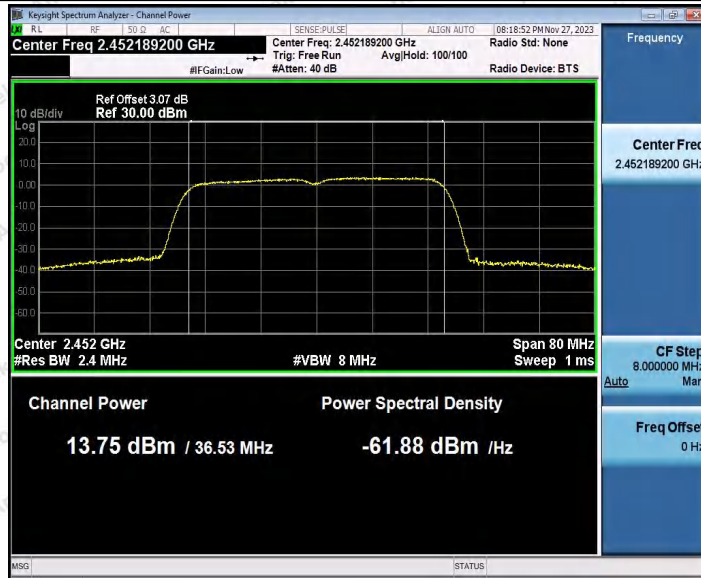
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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



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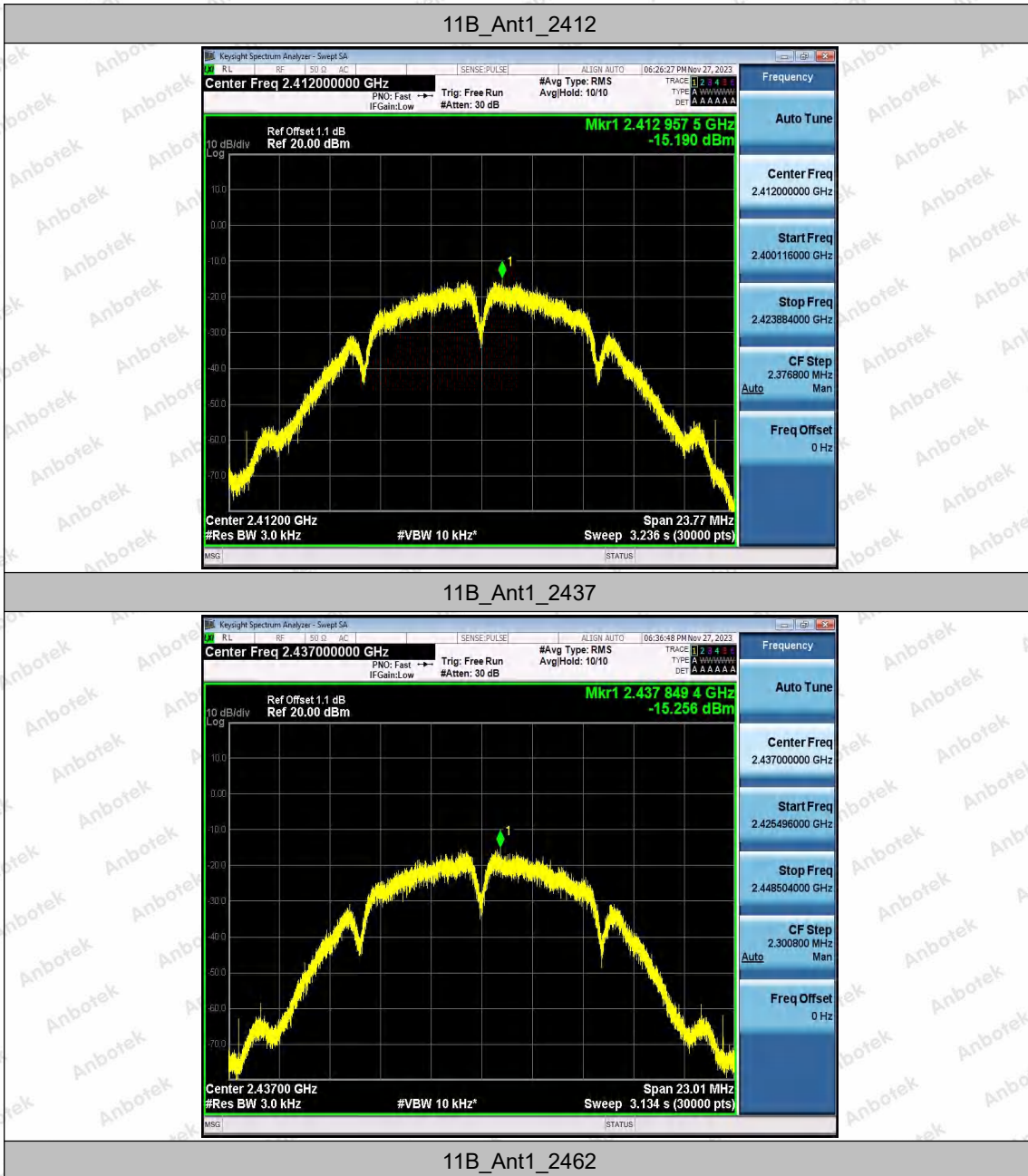
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.19	≤8.00	PASS
		2437	-15.26	≤8.00	PASS
		2462	-15.24	≤8.00	PASS
11G	Ant1	2412	-16.93	≤8.00	PASS
		2437	-16.86	≤8.00	PASS
		2462	-17.23	≤8.00	PASS
11N20SISO	Ant1	2412	-16.95	≤8.00	PASS
		2437	-17.3	≤8.00	PASS
		2462	-17.05	≤8.00	PASS
11N40SISO	Ant1	2422	-20.73	≤8.00	PASS
		2437	-19.52	≤8.00	PASS
		2452	-19.95	≤8.00	PASS



## Test Graphs

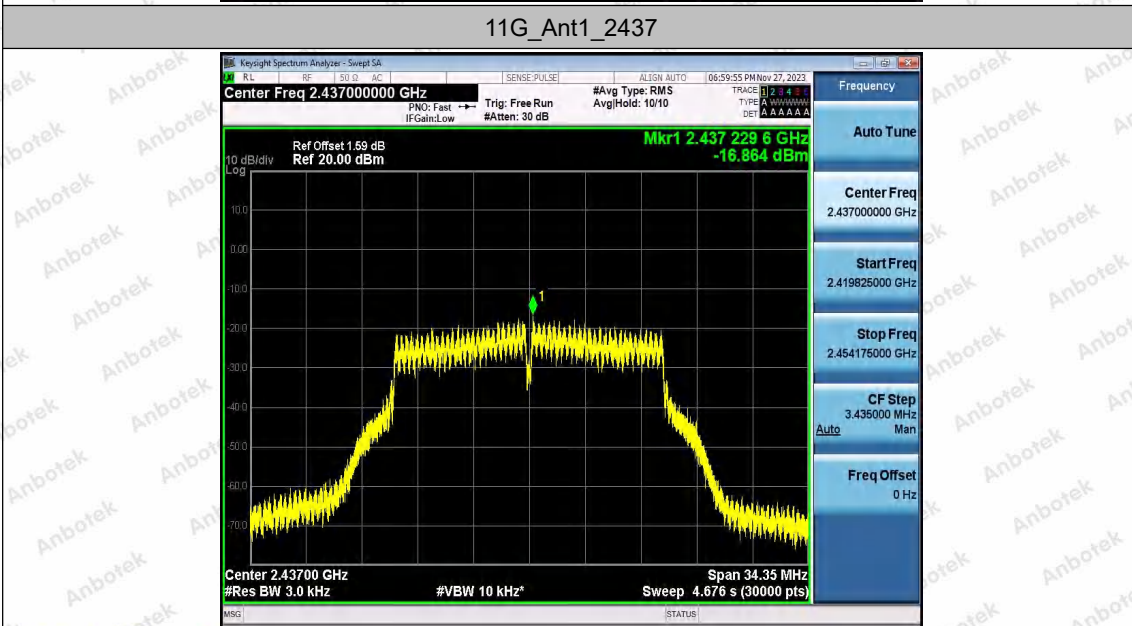
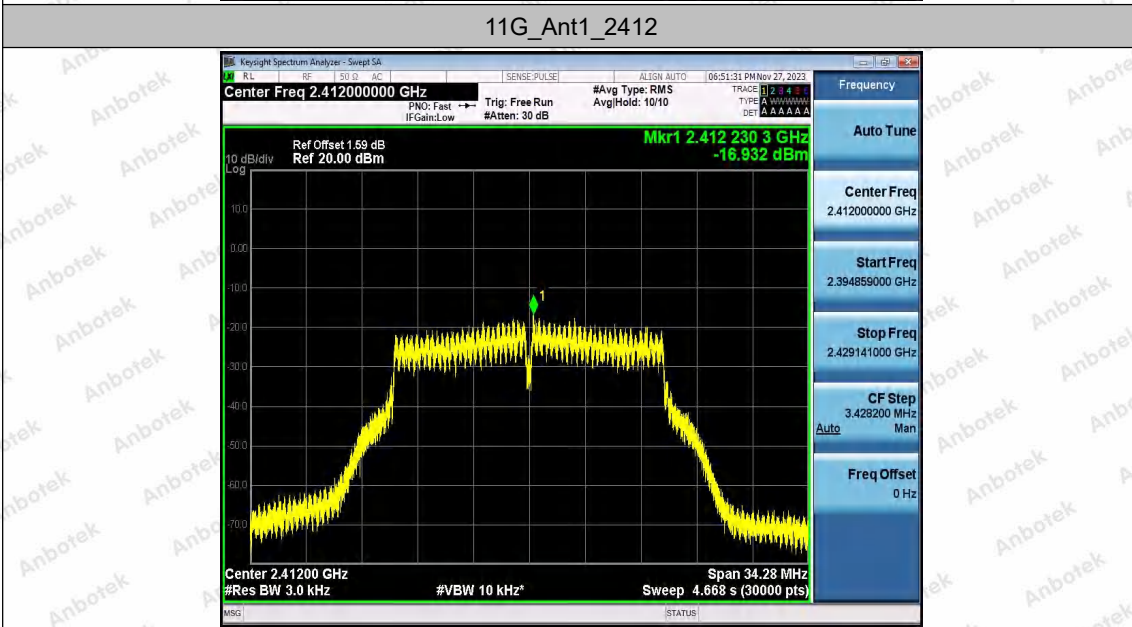


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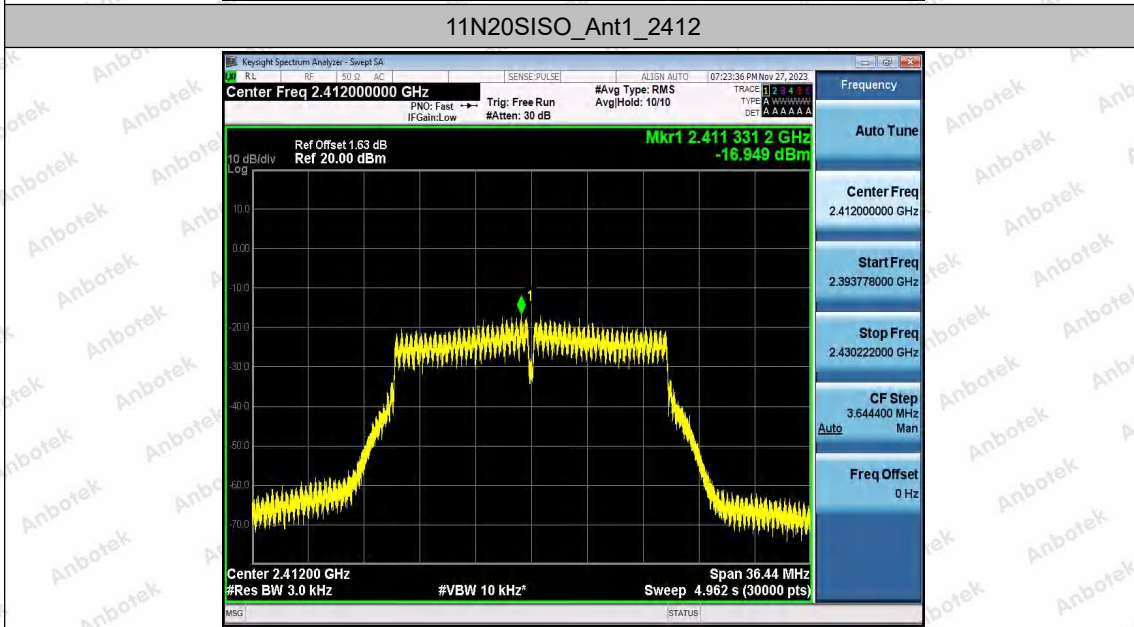
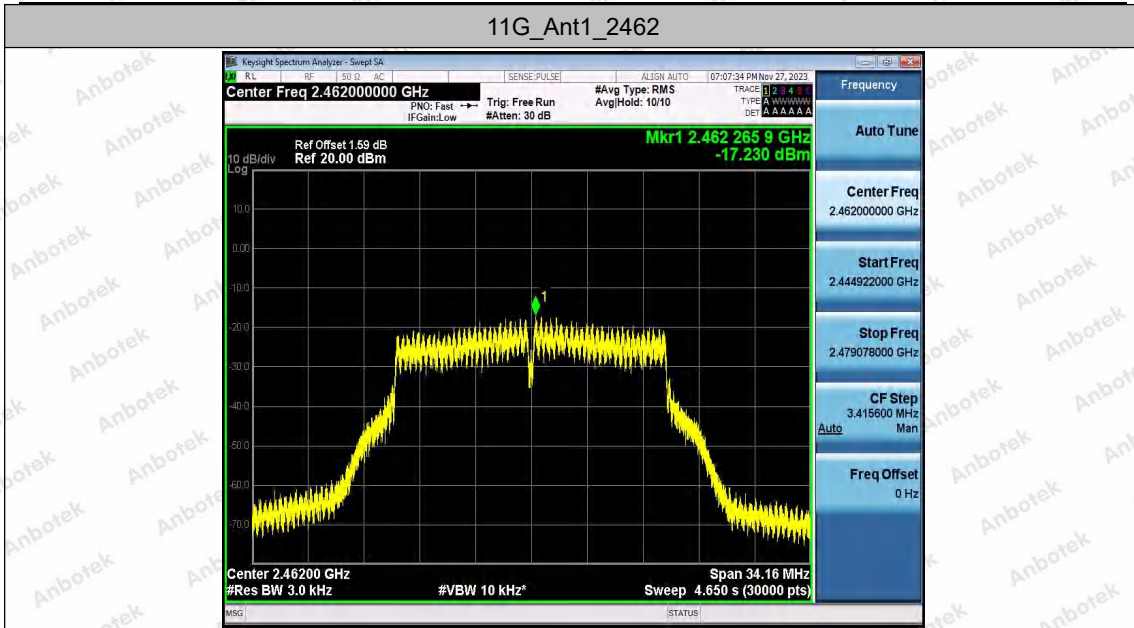


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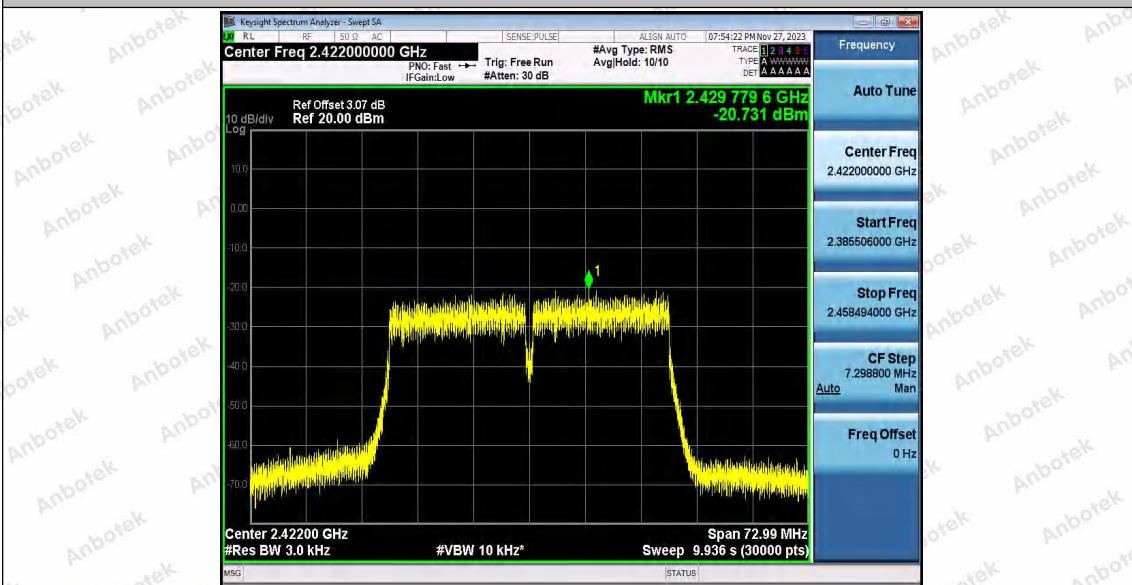
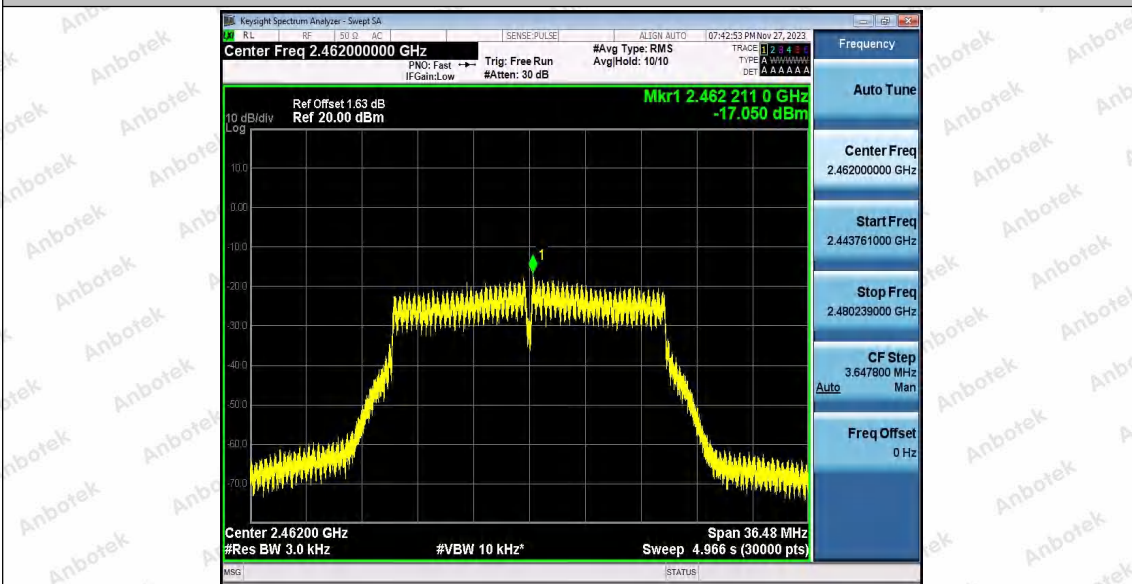
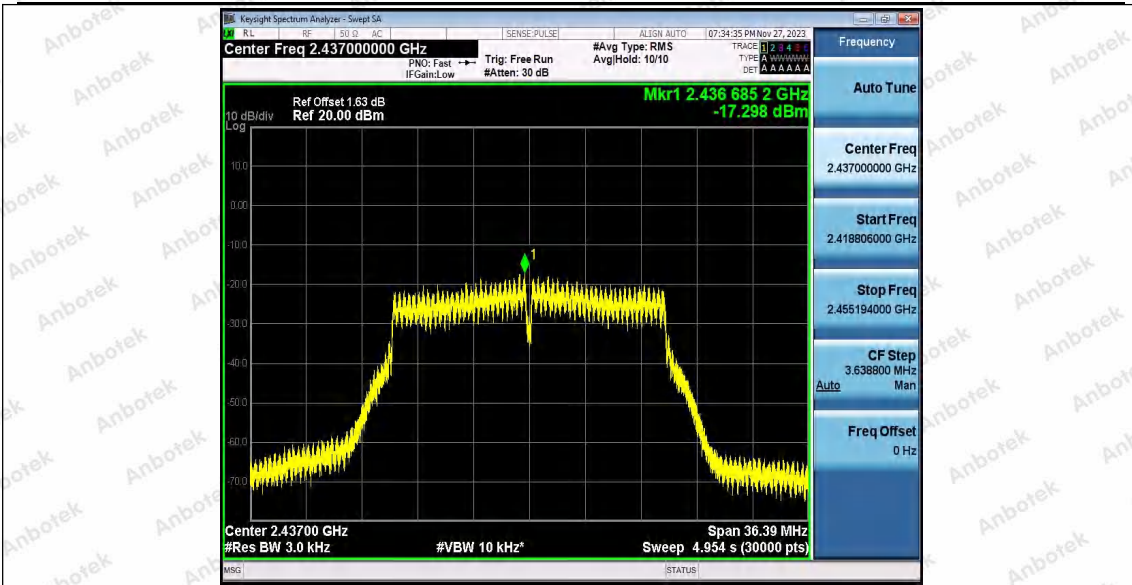
11N20SISO\_Ant1\_2437

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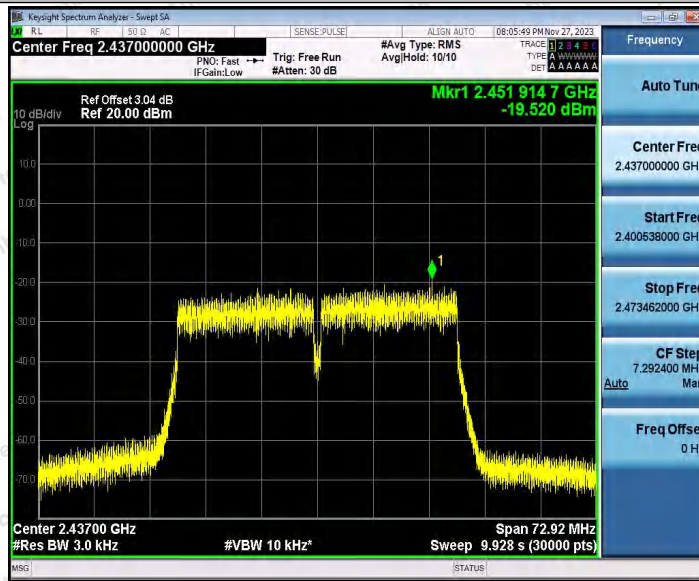
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.59	-40.34	≤-24.41	PASS
		High	2462	4.83	-50.03	≤-25.17	PASS
11G	Ant1	Low	2412	0.43	-35.93	≤-29.57	PASS
		High	2462	1.30	-46.39	≤-28.7	PASS
11N20SISO	Ant1	Low	2412	1.70	-35.01	≤-28.3	PASS
		High	2462	1.26	-43.44	≤-28.74	PASS
11N40SISO	Ant1	Low	2422	-1.42	-37.58	≤-31.42	PASS
		High	2452	-0.84	-39.77	≤-30.84	PASS

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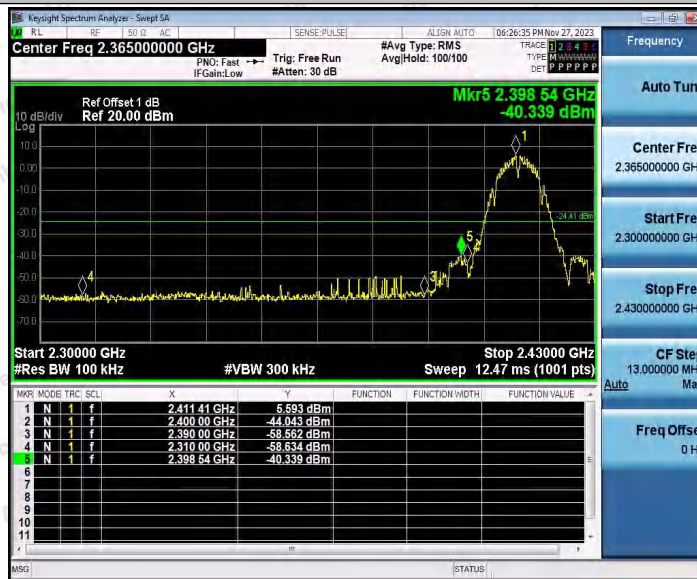


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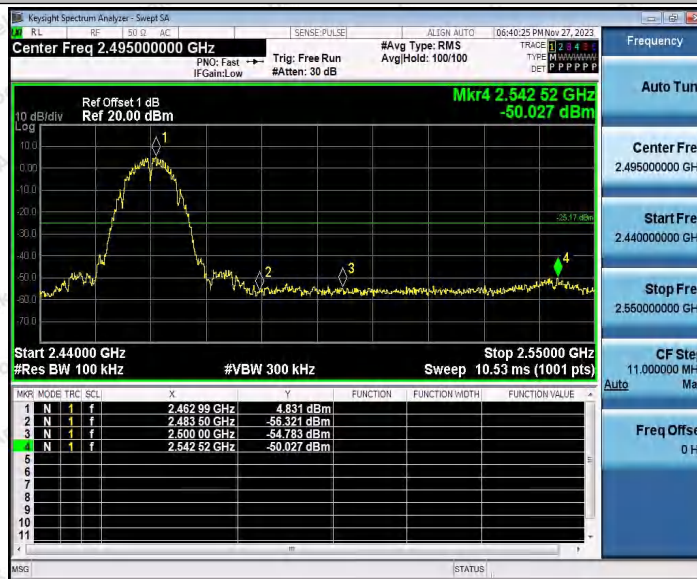


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

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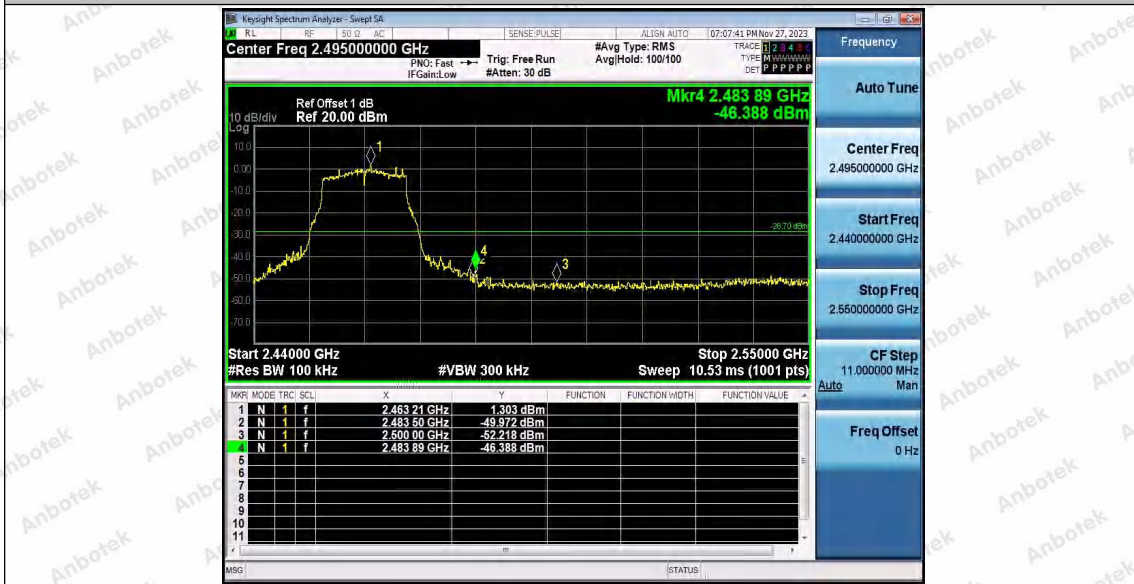
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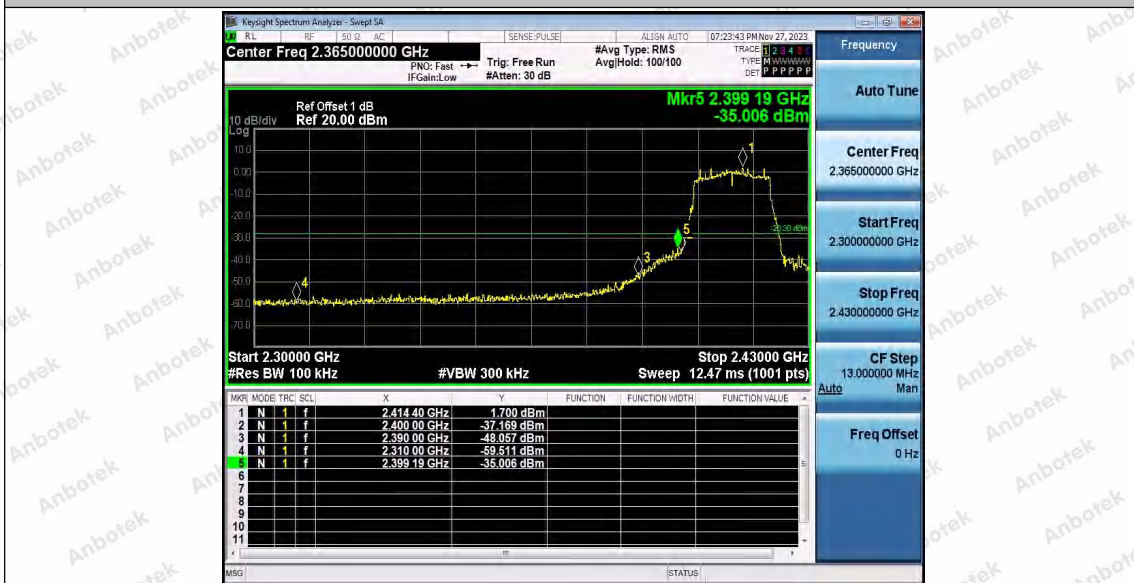




11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



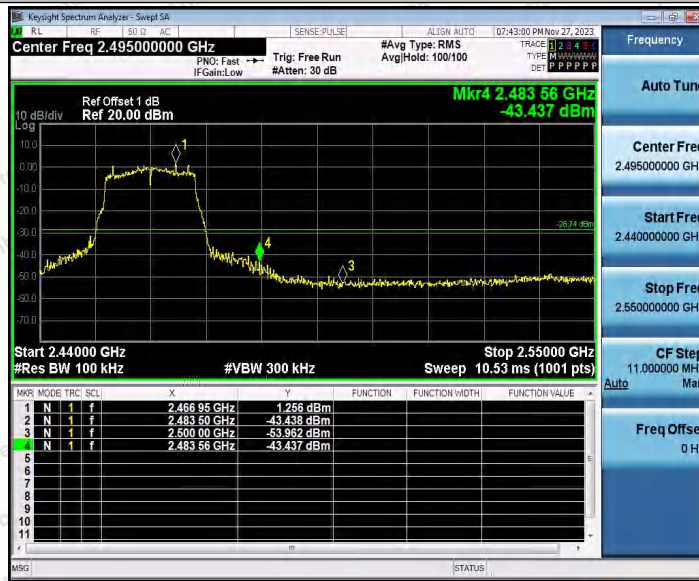
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### 11N20SISO\_Ant1\_High\_2462



### 11N40SISO\_Ant1\_Low\_2422



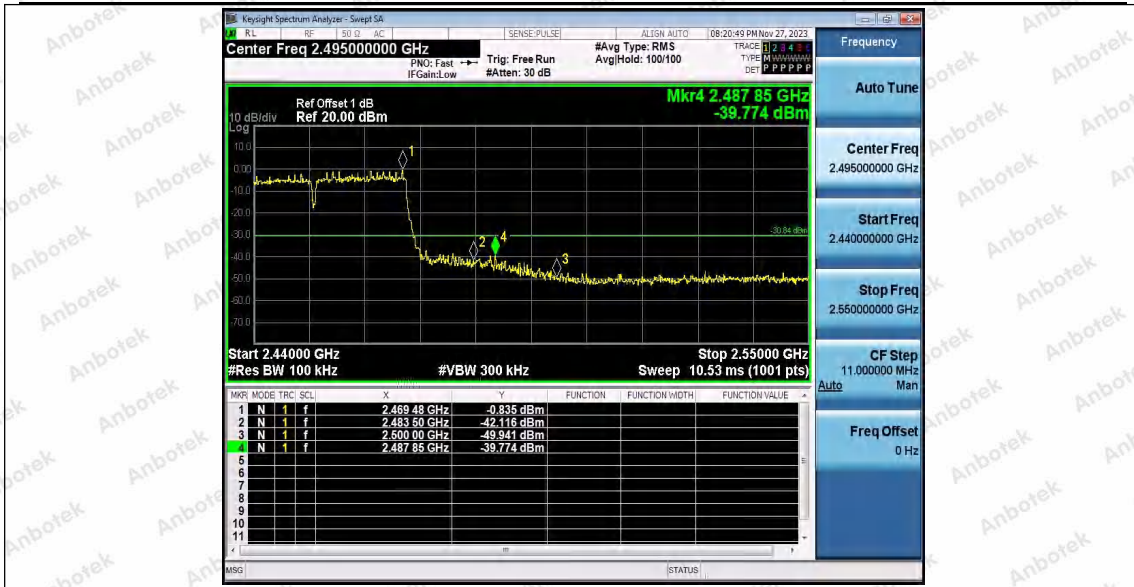
### 11N40SISO\_Ant1\_High\_2452

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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	4.35	4.35	---	PASS
			30~1000	4.35	-69.22	≤-25.65	PASS
			1000~26500	4.35	-52.12	≤-25.65	PASS
		2437	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-68.94	≤-26.32	PASS
			1000~26500	3.68	-52.12	≤-26.32	PASS
		2462	Reference	4.76	4.76	---	PASS
			30~1000	4.76	-68.54	≤-25.24	PASS
			1000~26500	4.76	-53.21	≤-25.24	PASS
11G	Ant1	2412	Reference	0.17	0.17	---	PASS
			30~1000	0.17	-68.68	≤-29.83	PASS
			1000~26500	0.17	-50.58	≤-29.83	PASS
		2437	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-68.9	≤-29.7	PASS
			1000~26500	0.30	-50.8	≤-29.7	PASS
		2462	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-68.4	≤-30.64	PASS
			1000~26500	-0.64	-48.45	≤-30.64	PASS
11N20SISO	Ant1	2412	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-68.03	≤-28.82	PASS
			1000~26500	1.18	-50.5	≤-28.82	PASS
		2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-68.98	≤-29.32	PASS
			1000~26500	0.68	-49.41	≤-29.32	PASS
		2462	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-68.28	≤-30.93	PASS
			1000~26500	-0.93	-50.79	≤-30.93	PASS
11N40SISO	Ant1	2422	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-68.97	≤-32.23	PASS
			1000~26500	-2.23	-53.47	≤-32.23	PASS
		2437	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-68.73	≤-31.96	PASS
			1000~26500	-1.96	-53.52	≤-31.96	PASS
		2452	Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-68.27	≤-31.47	PASS
			1000~26500	-1.47	-54.13	≤-31.47	PASS

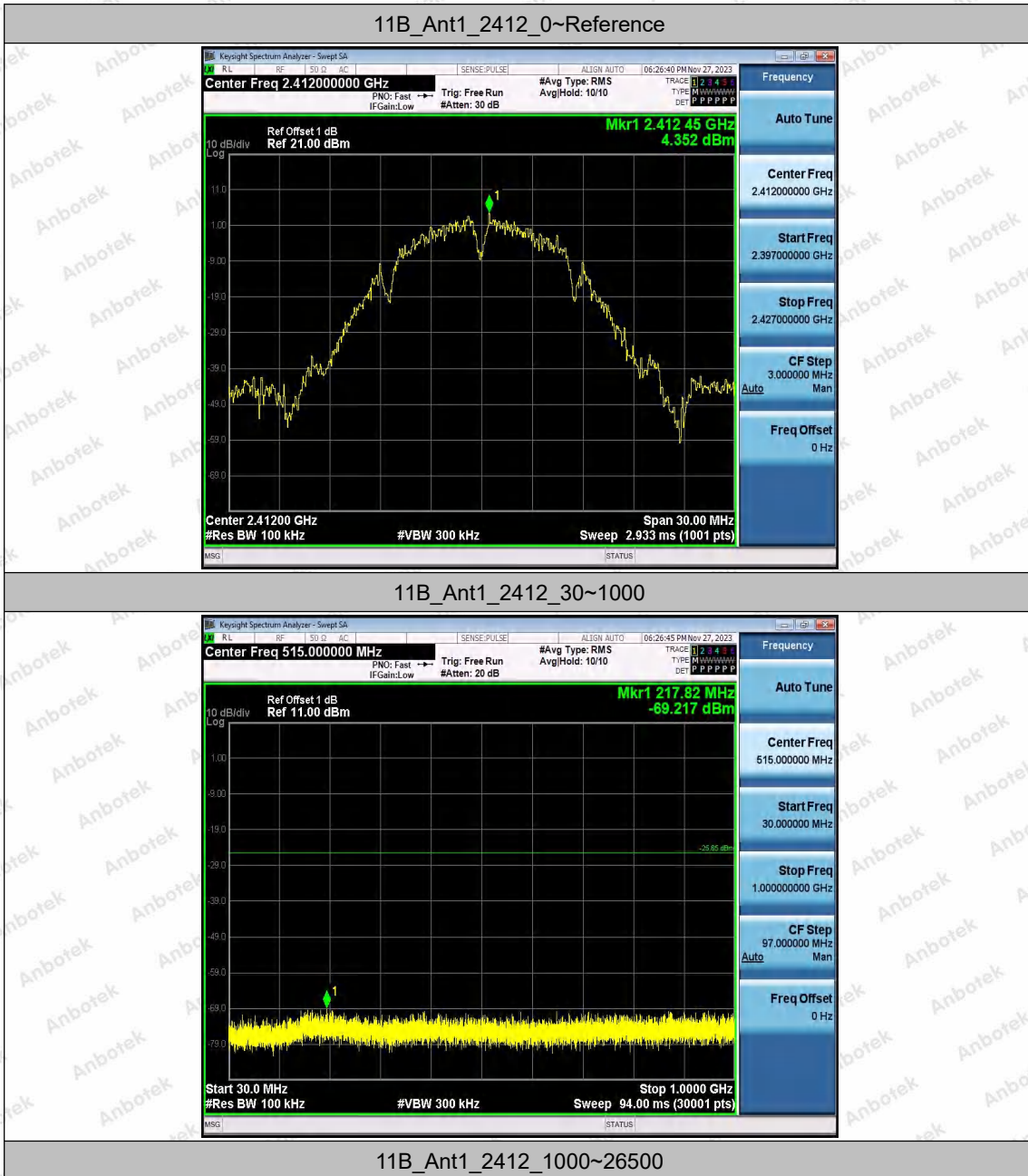
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## Test Graphs

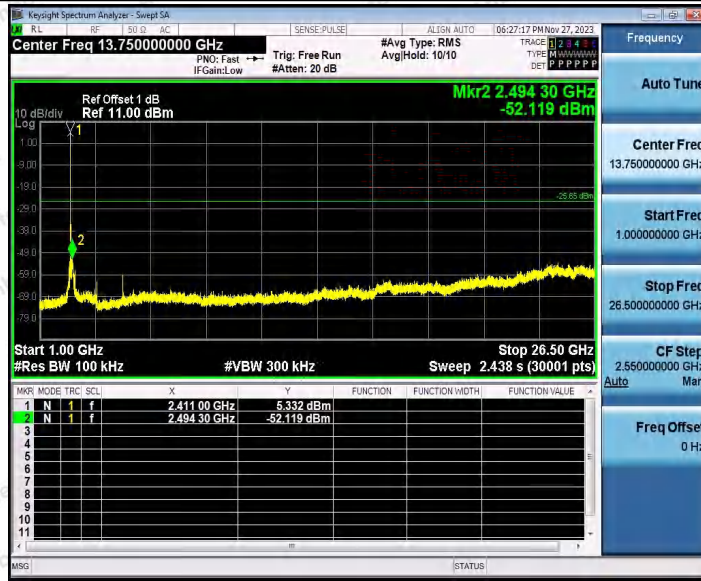


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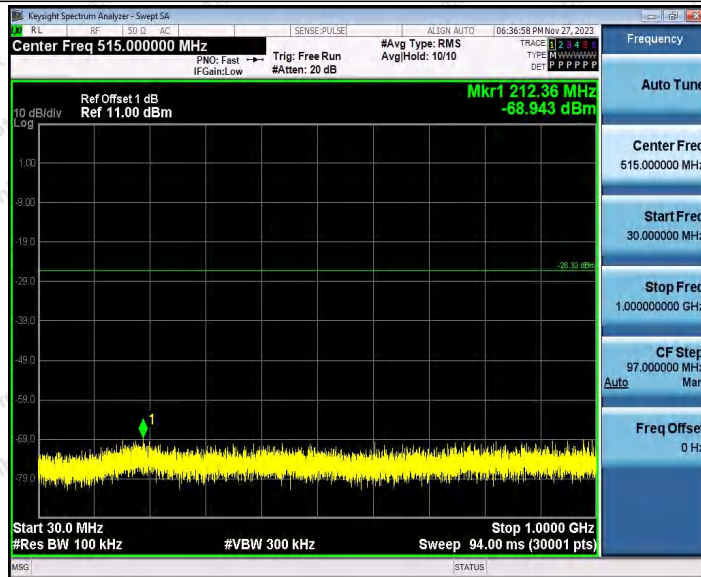




11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



## Shenzhen Anbotek Compliance Laboratory Limited

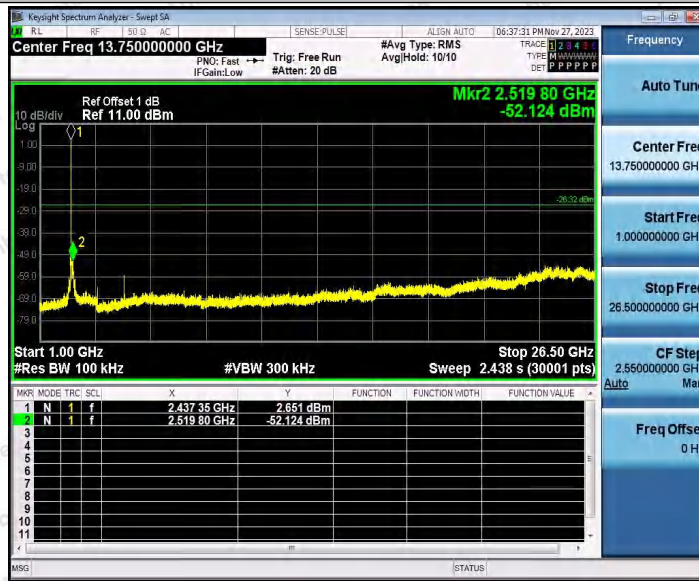
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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### 11B\_Ant1\_2437\_1000~26500



### 11B\_Ant1\_2462\_0~Reference



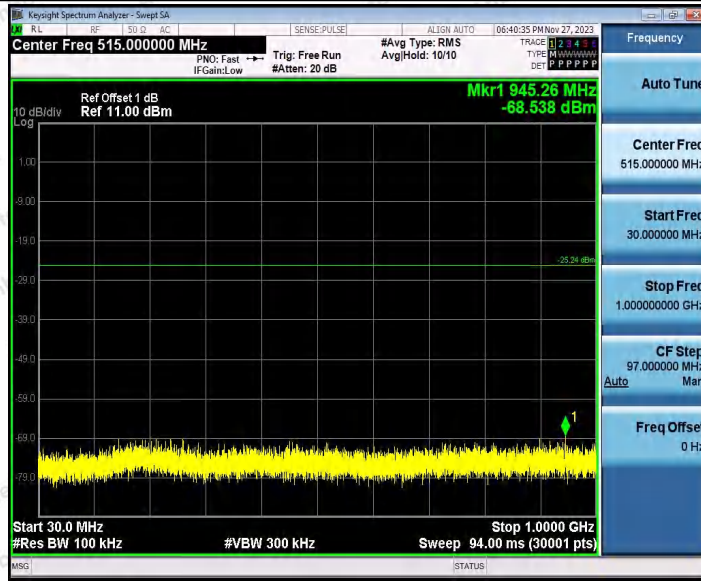
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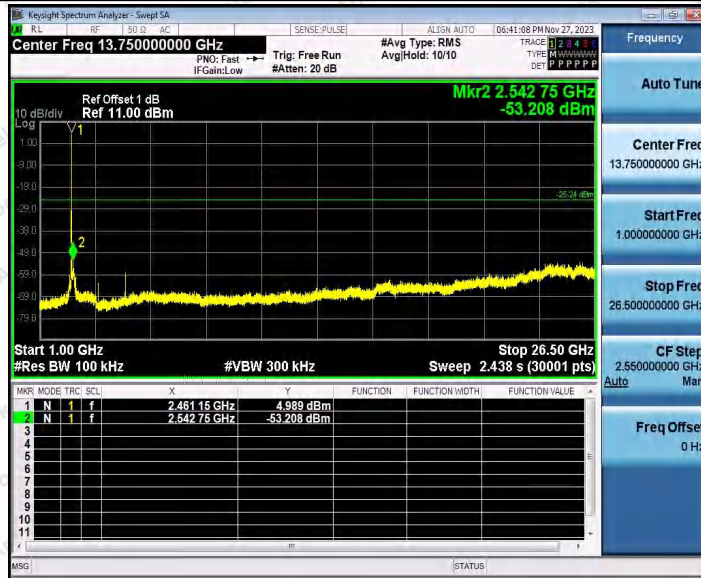
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference

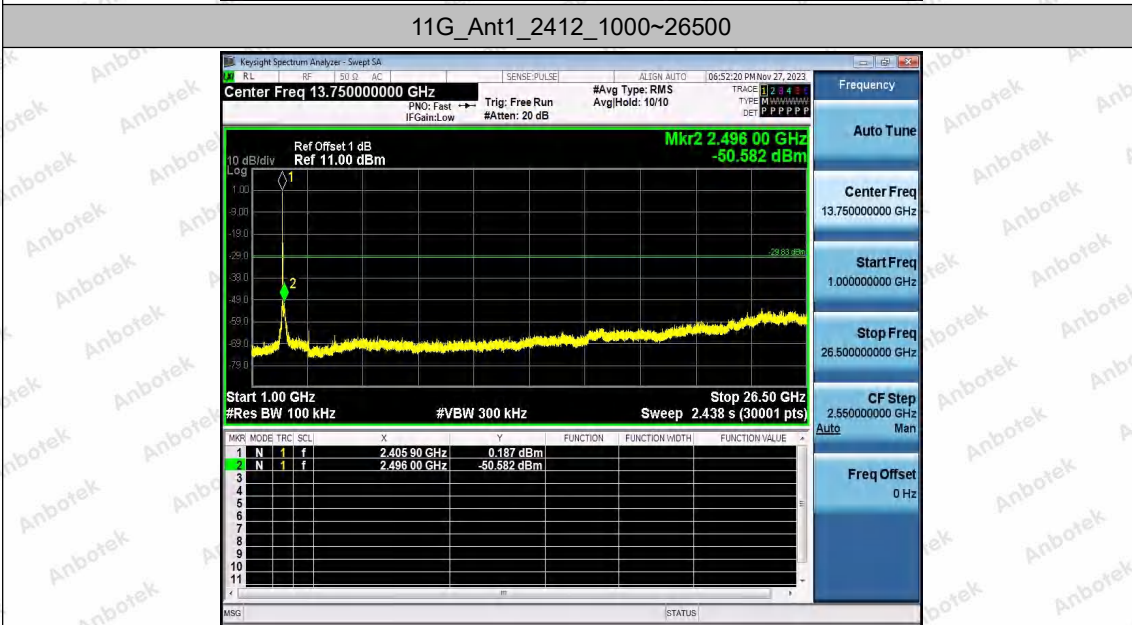
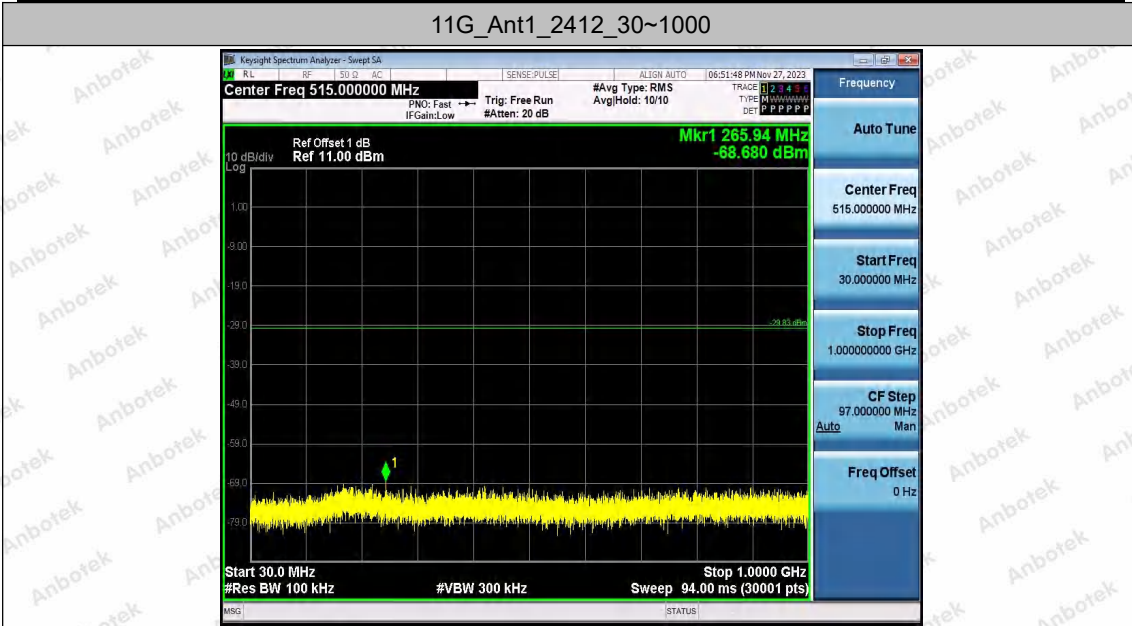


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### 11G\_Ant1\_2437\_0~Reference

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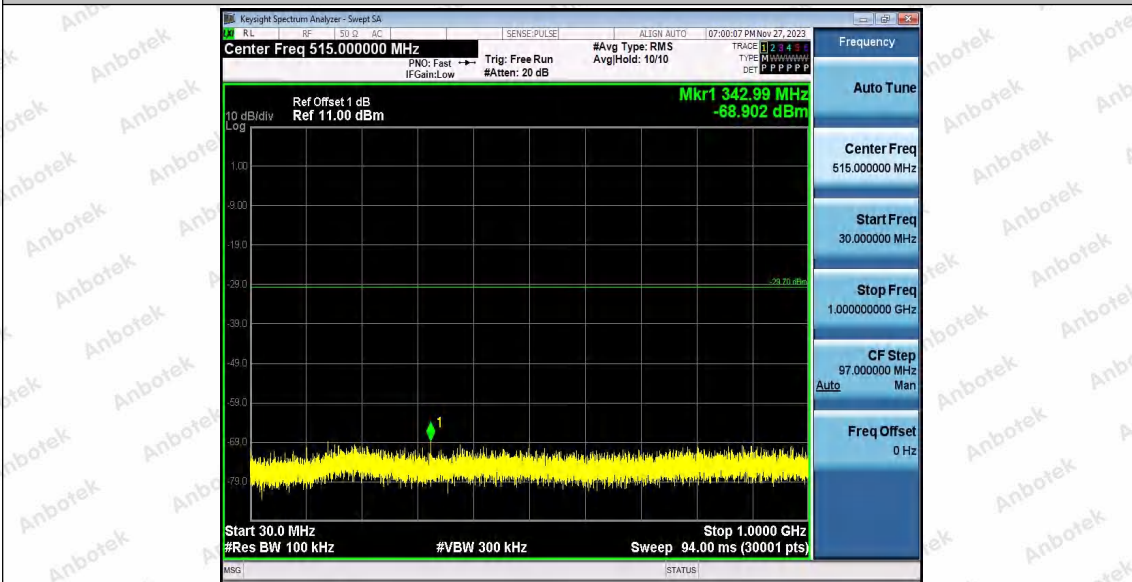
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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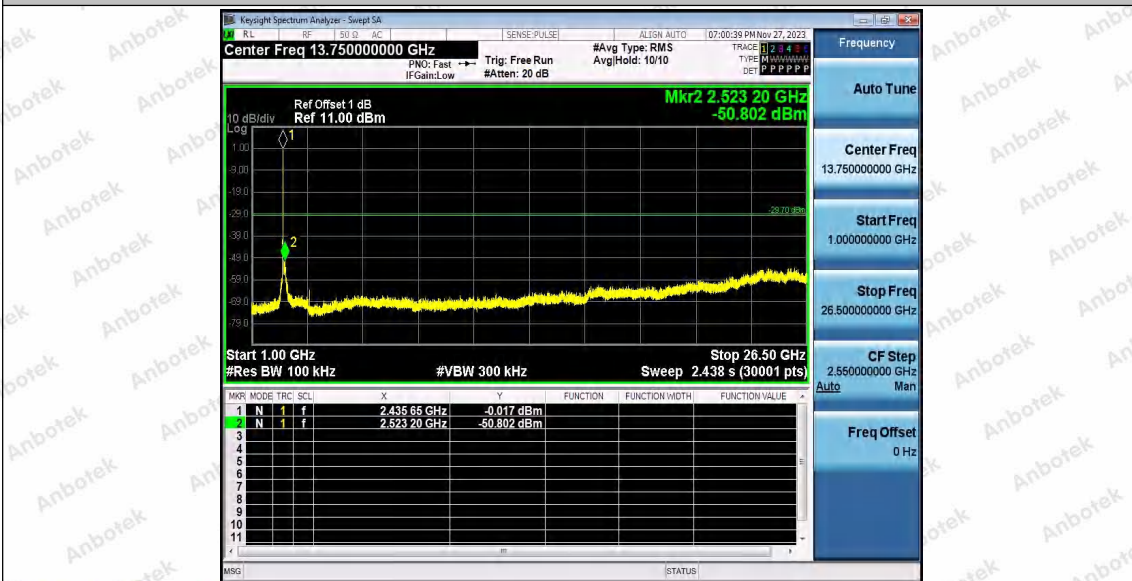




11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



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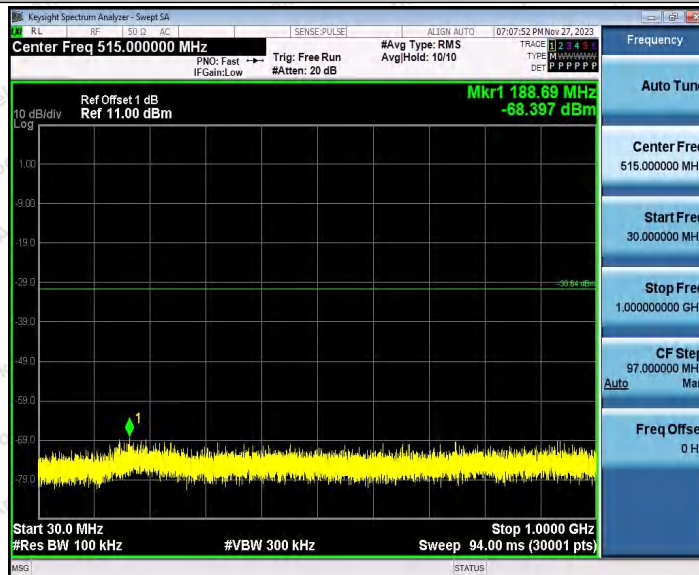
Hotline 400-003-0500  
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### 11G\_Ant1\_2462\_0~Reference



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



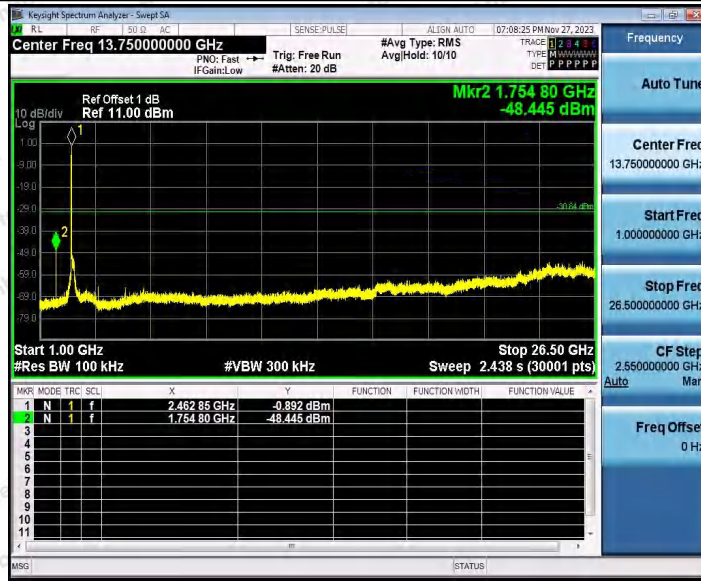
### 11G\_Ant1\_2462\_1000~26500

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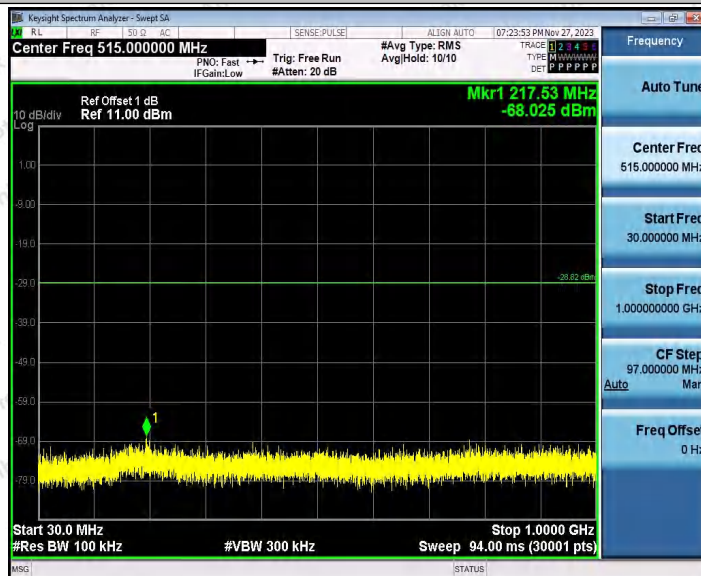




11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



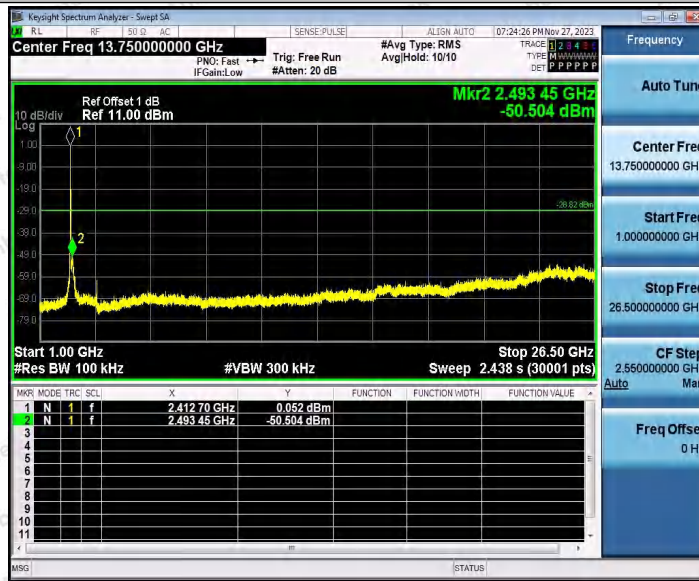
## Shenzhen Anbotek Compliance Laboratory Limited

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### 11N20SISO\_Ant1\_2412\_1000~26500



### 11N20SISO\_Ant1\_2437\_0~Reference



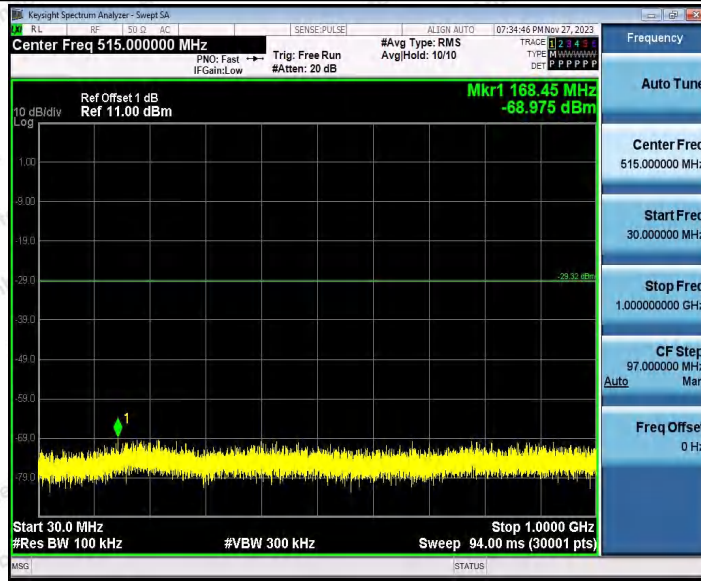
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## Shenzhen Anbotek Compliance Laboratory Limited

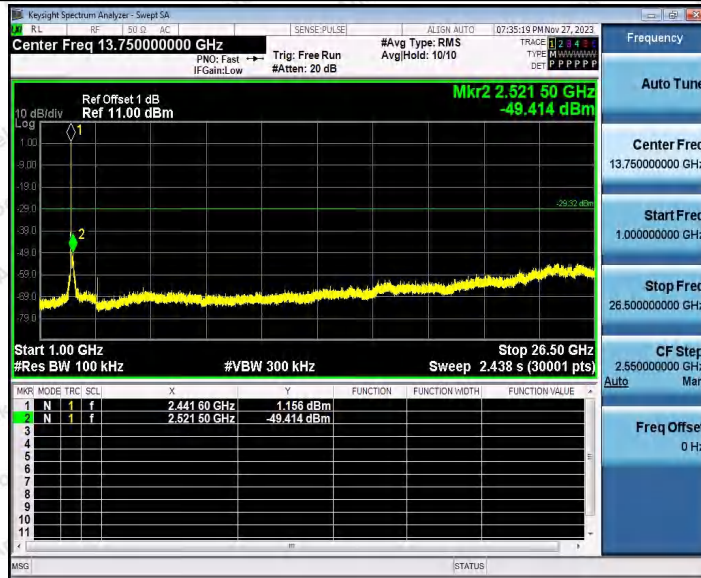
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



## Shenzhen Anbotek Compliance Laboratory Limited

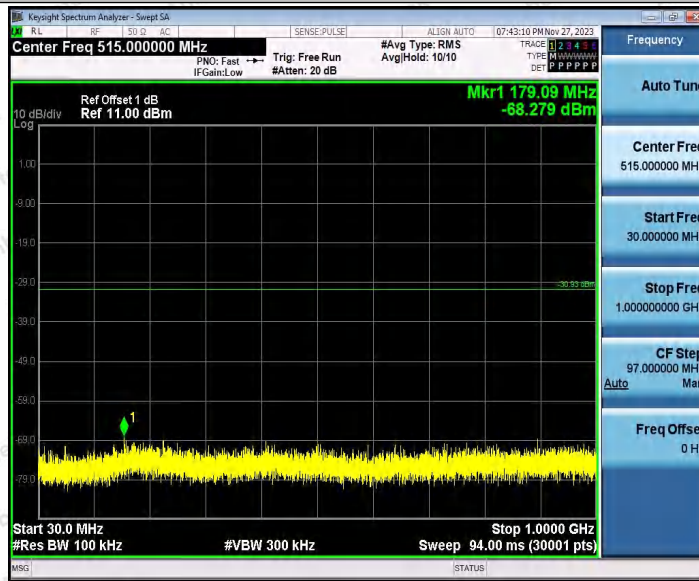
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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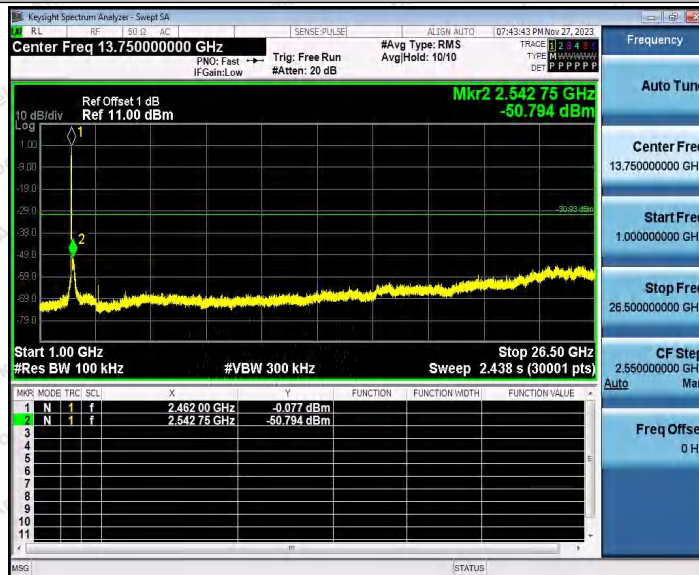




11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference

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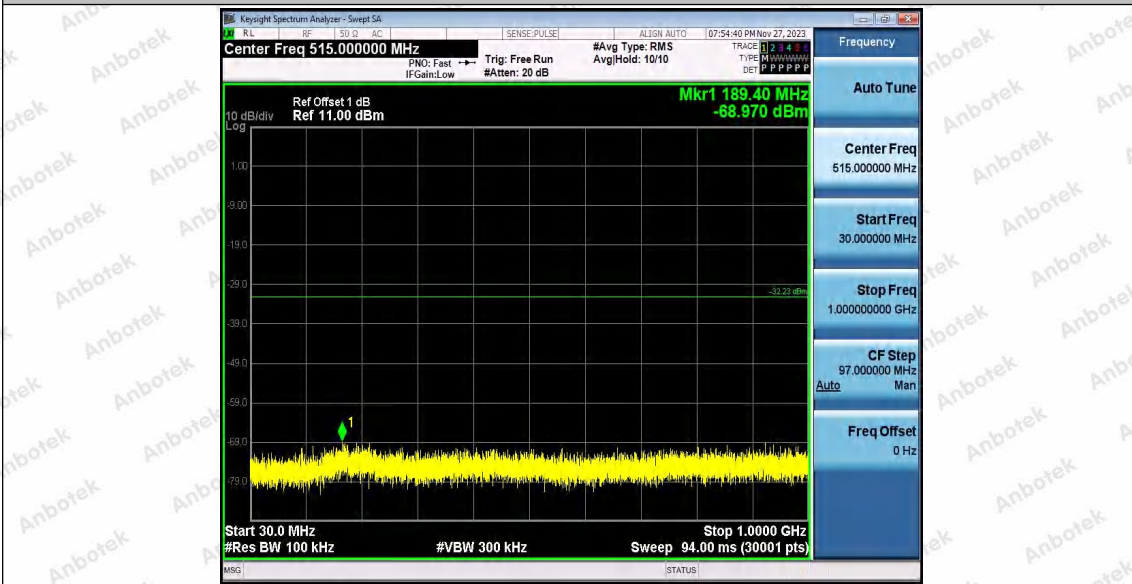
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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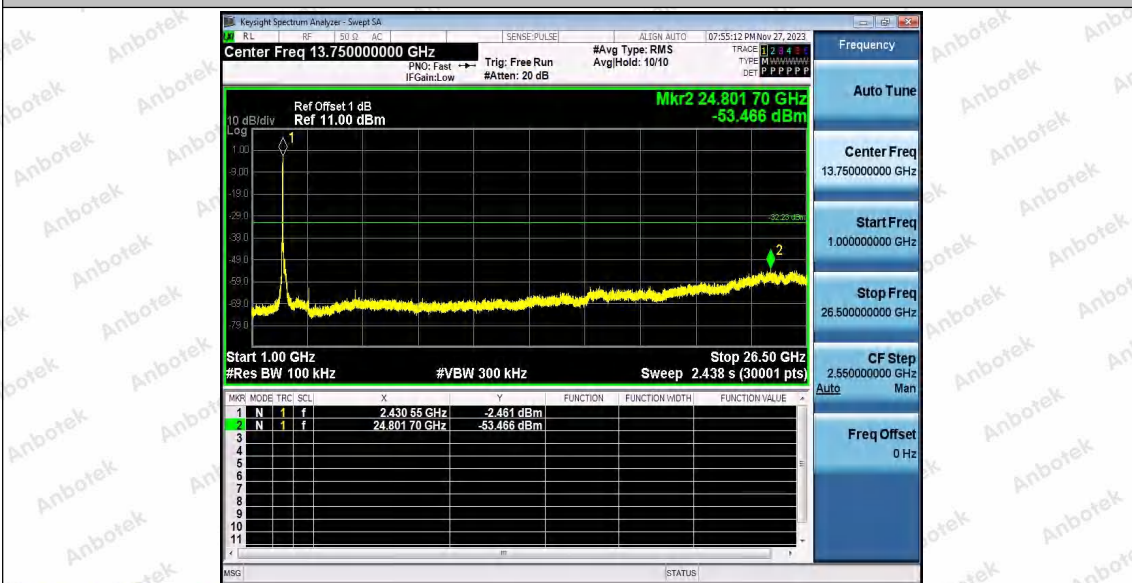




11N40SISO\_Ant1\_2422\_30~1000



11N40SISO\_Ant1\_2422\_1000~26500



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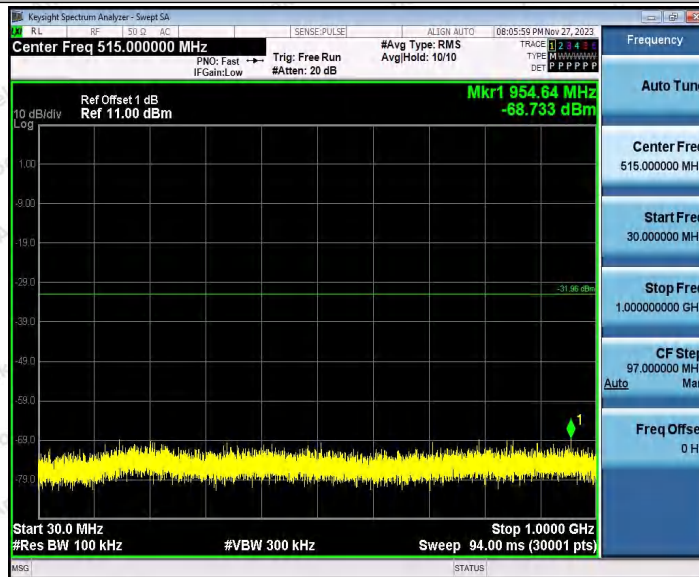
Hotline 400-003-0500  
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### 11N40SISO\_Ant1\_2437\_0~Reference



### 11N40SISO\_Ant1\_2437\_30~1000



### 11N40SISO\_Ant1\_2437\_1000~26500

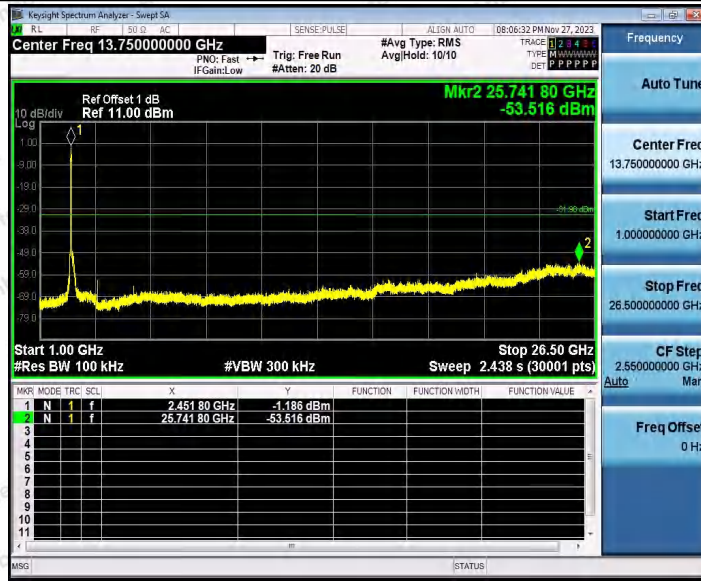
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11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_30~1000

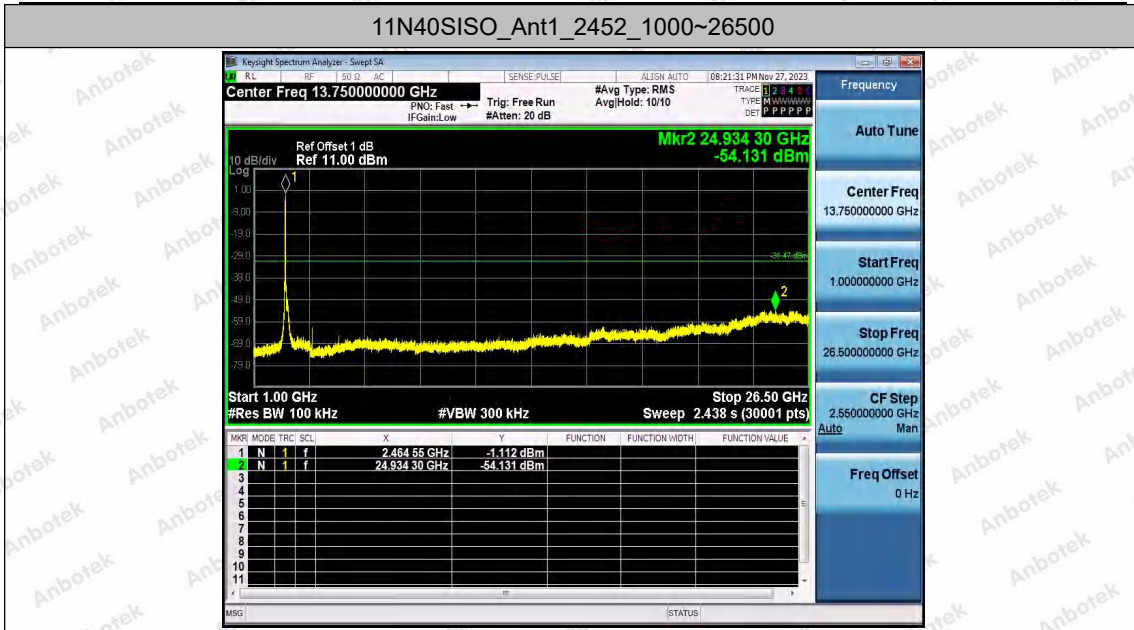


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## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.41	12.70	97.72	0.10
		2437	12.43	12.71	97.80	0.10
		2462	12.41	12.71	97.64	0.10
11G	Ant1	2412	2.06	2.36	87.29	0.59
		2437	2.06	2.36	87.29	0.59
		2462	2.06	2.36	87.29	0.59
11N20SISO	Ant1	2412	1.92	2.22	86.49	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	0.50	0.80	62.50	2.04
		2452	0.49	0.79	62.03	2.07

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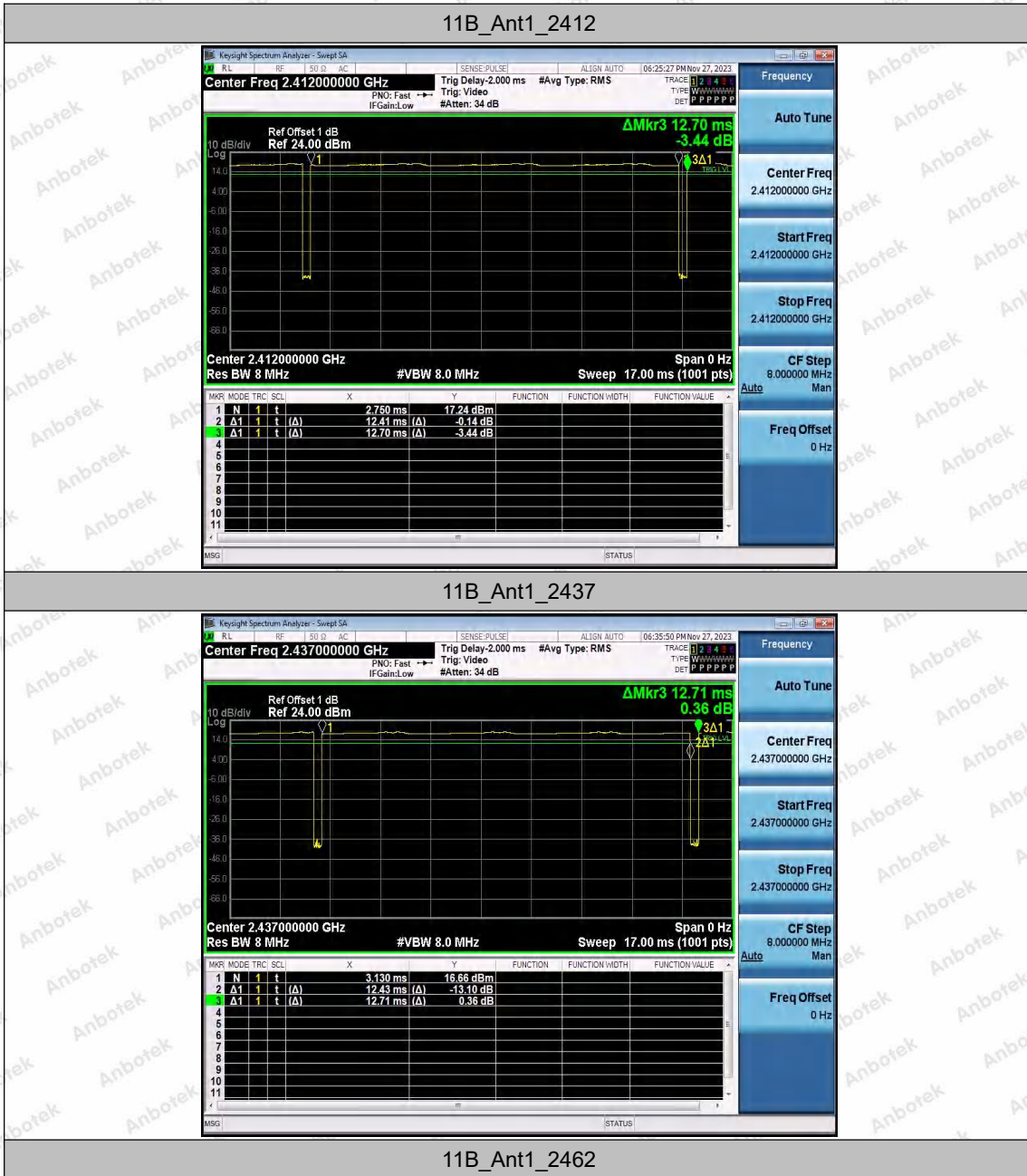
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## Test Graphs

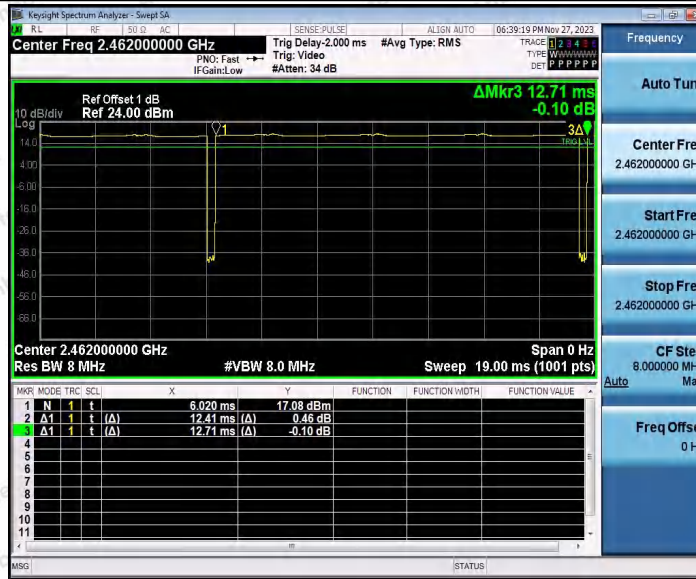


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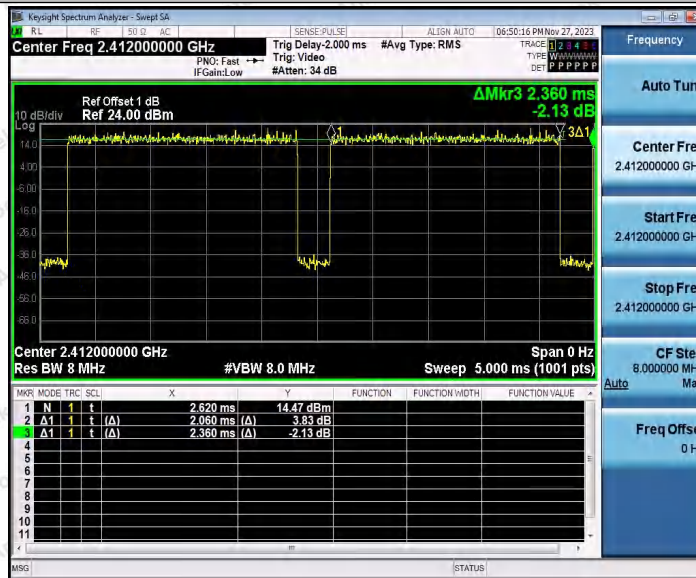
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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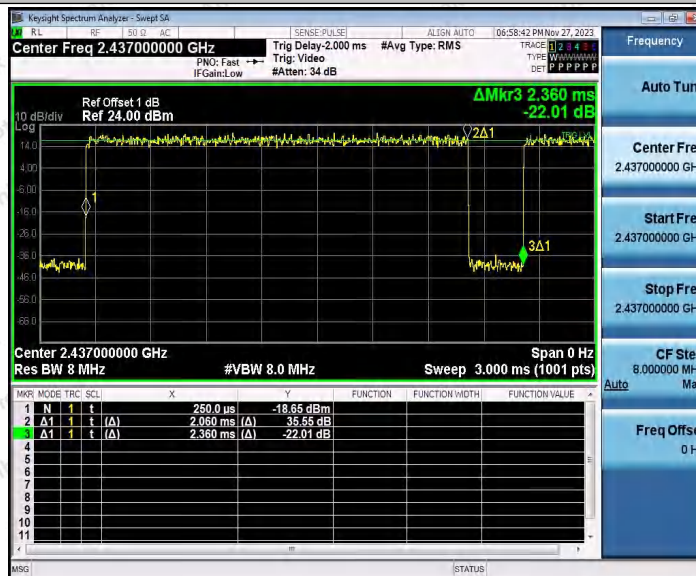




11G\_Ant1\_2412



11G\_Ant1\_2437



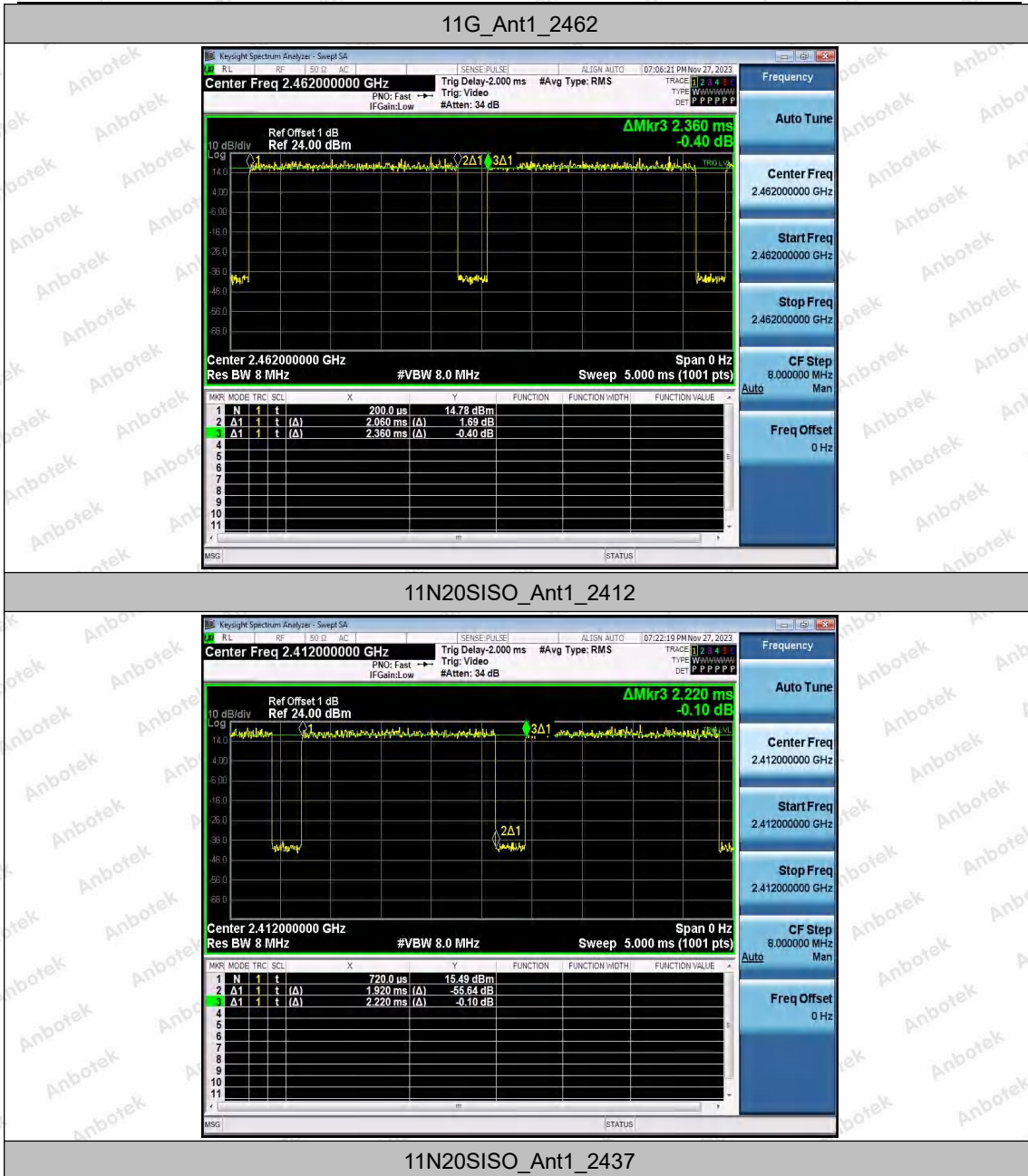
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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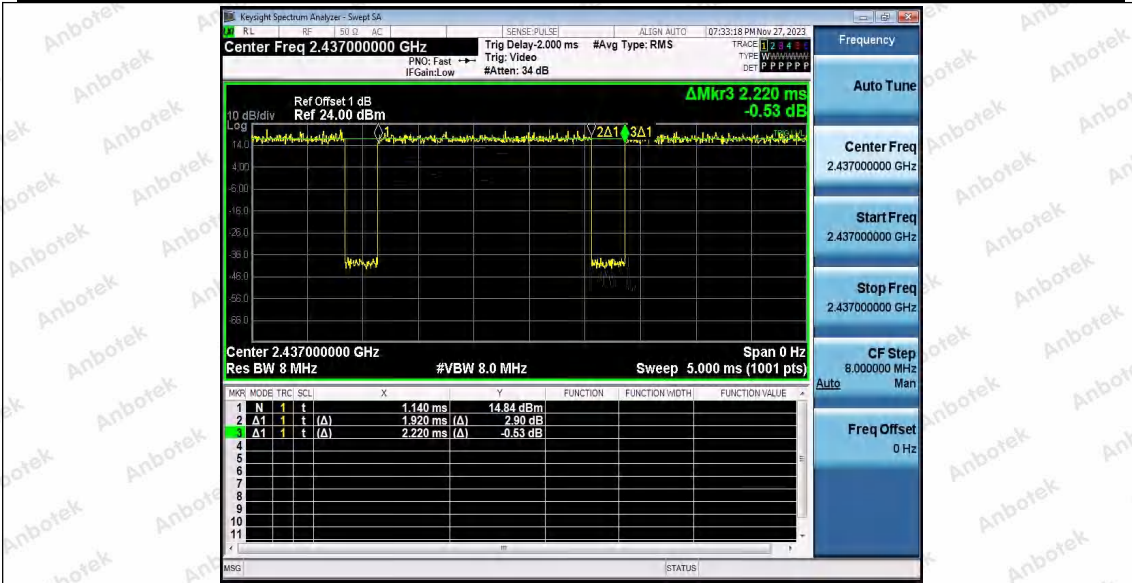


## Shenzhen Anbotek Compliance Laboratory Limited

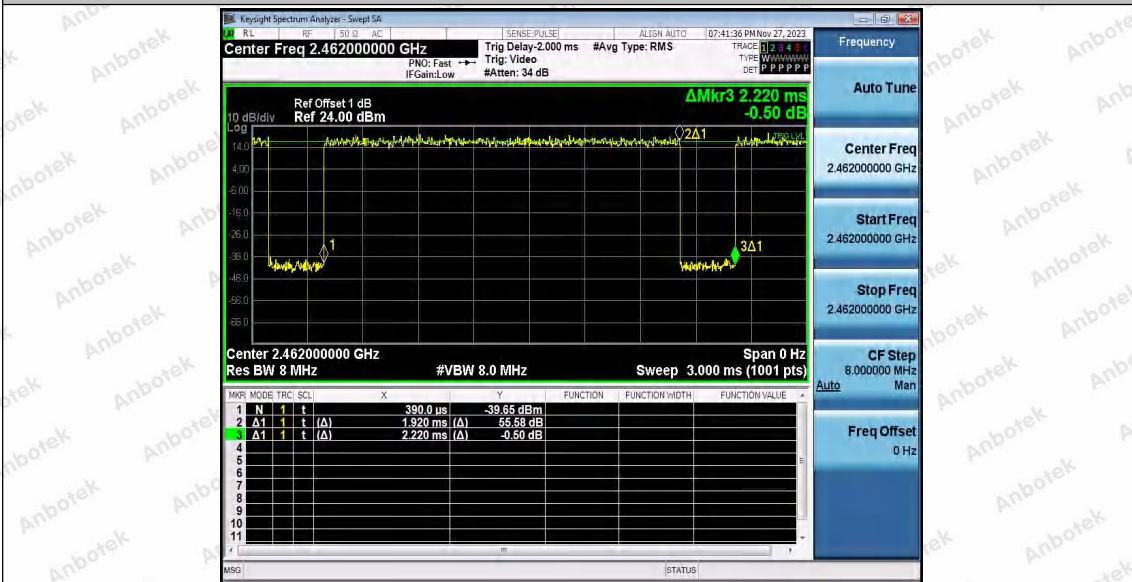
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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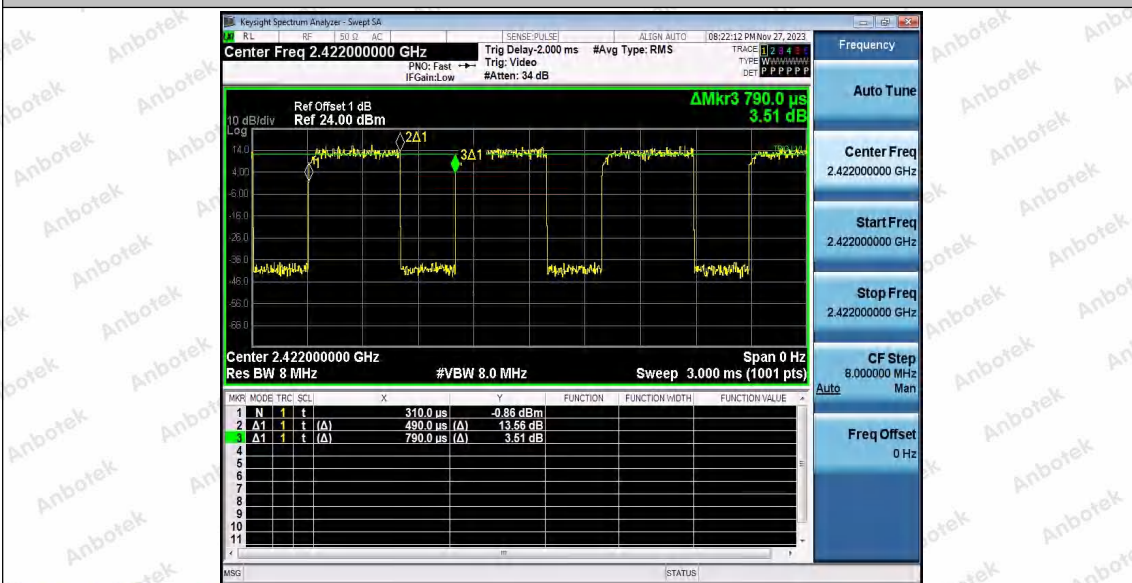




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



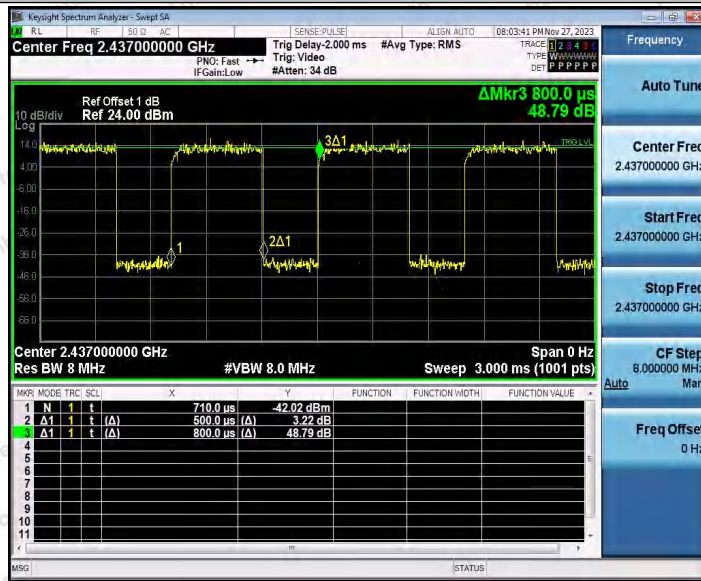
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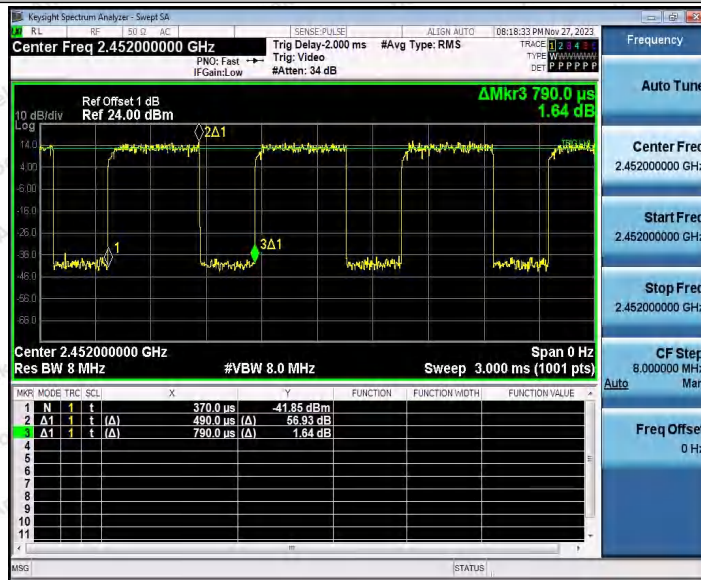
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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



---End---

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