

## Appendix Test Data

Report No.:	18360WC40005002	Test Sample No.:	1-2-2
Start Test Date:	2024.04.17	Finish Test Date:	2024.05.24
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	Relative Humidity:	47%
Pressure:	101kPa		

## Appendix A: 6dB Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.040	2432.000	2442.040	0.5	PASS
11B	Ant1	2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
11G	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.440	2453.800	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.080	2440.160	0.5	PASS
11N40SISO	Ant1	2437	35.840	2419.080	2454.920	0.5	PASS
11N40SISO	Ant1	2452	36.080	2434.080	2470.160	0.5	PASS

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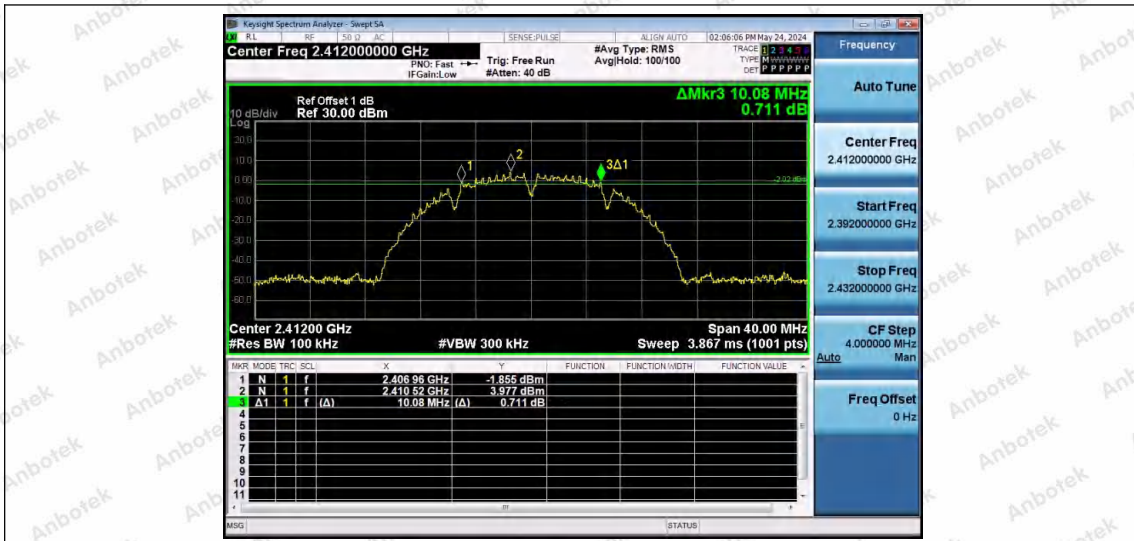
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## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

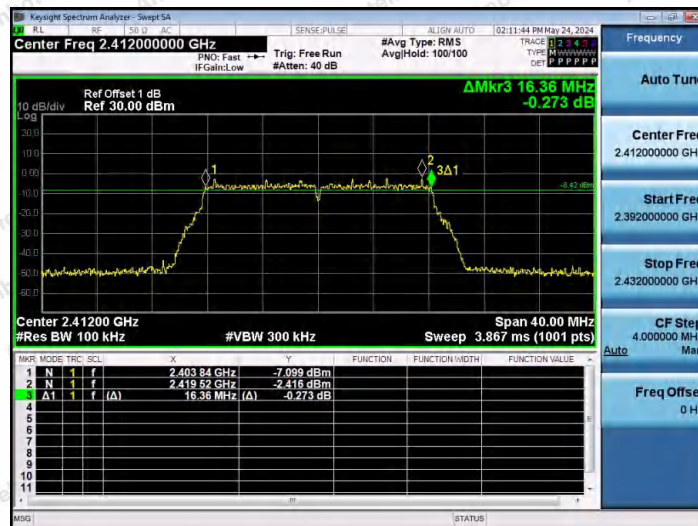
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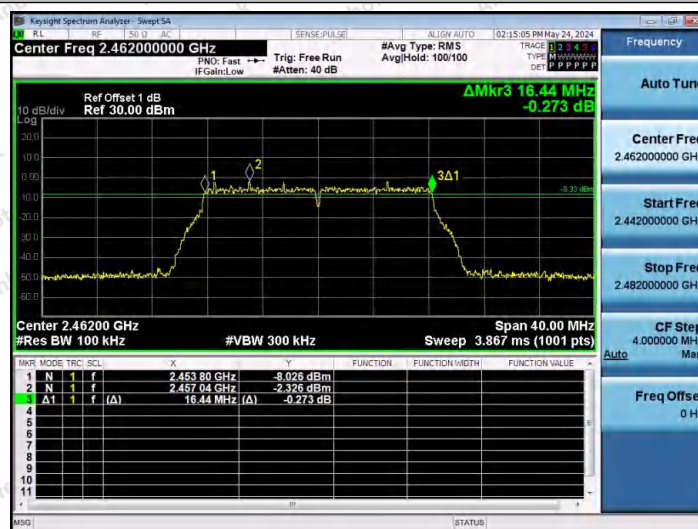




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



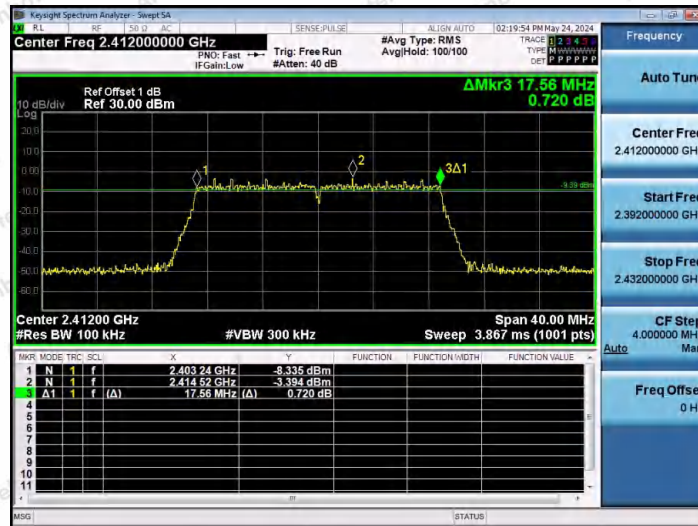
11G-Ant1-2462-PASS

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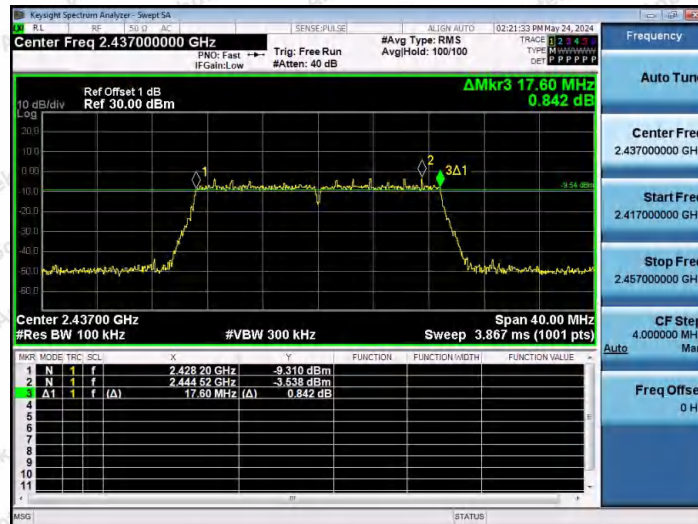
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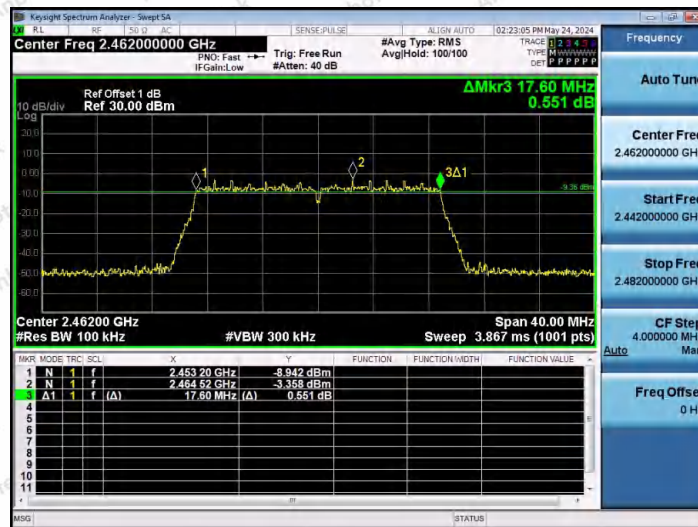




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

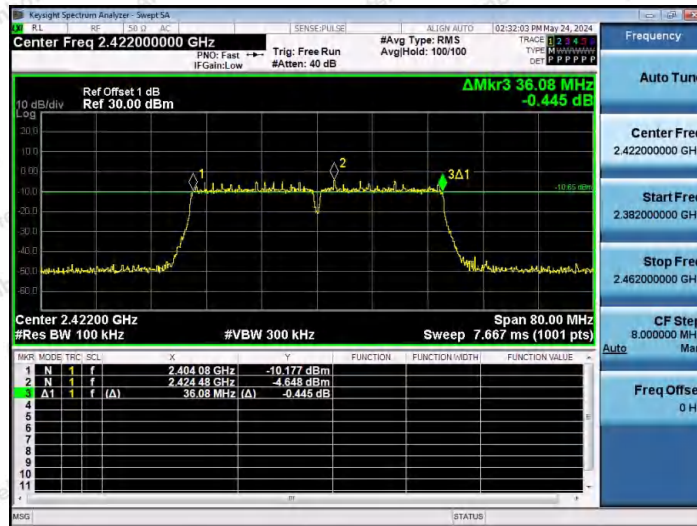
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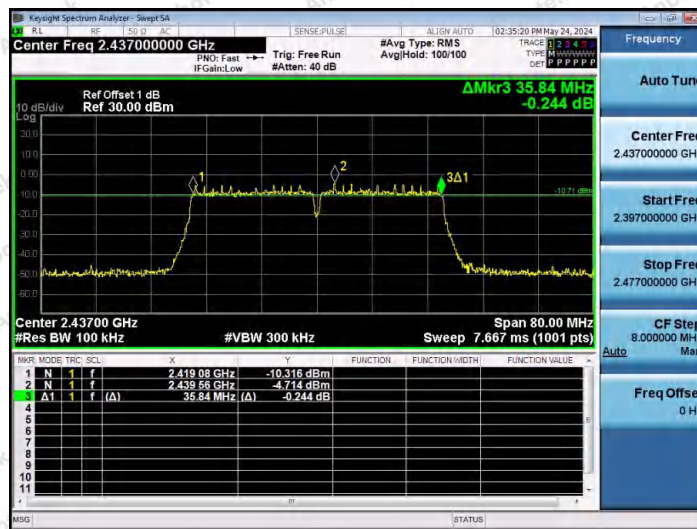
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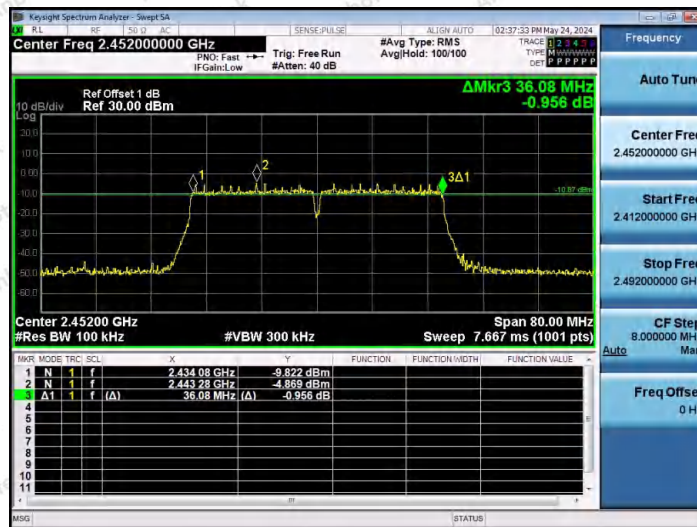




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix B: 99% Occupied Bandwidth

### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.280	2404.9135	2419.1935	---	---
11B	Ant1	2437	14.270	2429.9085	2444.1785	---	---
11B	Ant1	2462	14.264	2454.9048	2469.1688	---	---
11G	Ant1	2412	17.107	2403.5284	2420.6354	---	---
11G	Ant1	2437	17.081	2428.4964	2445.5774	---	---
11G	Ant1	2462	17.064	2453.4985	2470.5625	---	---
11N20SISO	Ant1	2412	17.935	2403.0565	2420.9915	---	---
11N20SISO	Ant1	2437	17.937	2428.0984	2446.0354	---	---
11N20SISO	Ant1	2462	17.910	2453.0936	2471.0036	---	---
11N40SISO	Ant1	2422	36.315	2403.9396	2440.2546	---	---
11N40SISO	Ant1	2437	36.363	2418.9465	2455.3095	---	---
11N40SISO	Ant1	2452	36.340	2433.9401	2470.2801	---	---

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## Test Graphs



11B-Ant1-2412



11B-Ant1-2437



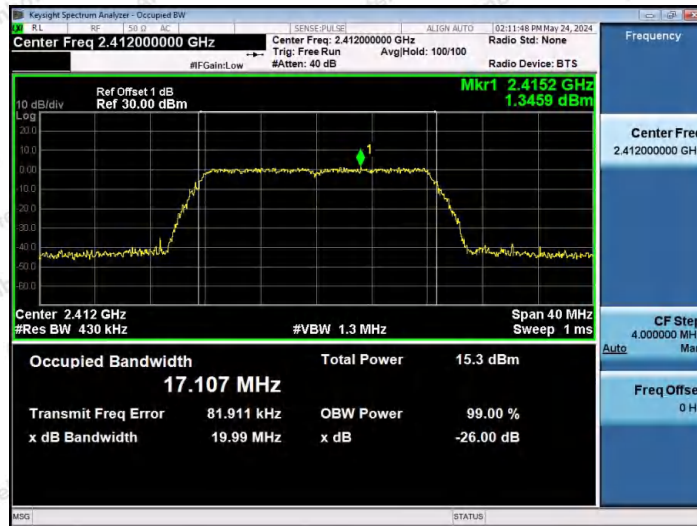
11B-Ant1-2462

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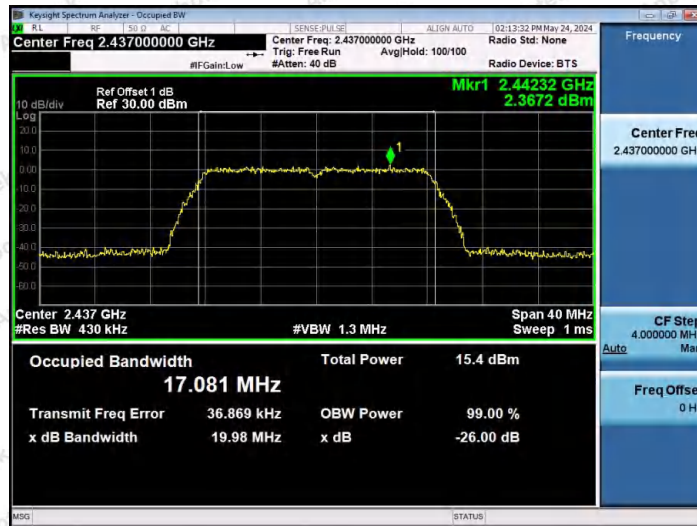
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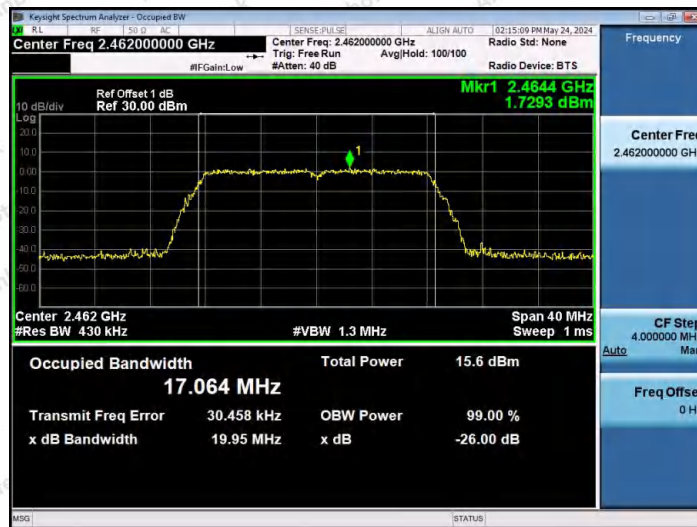




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

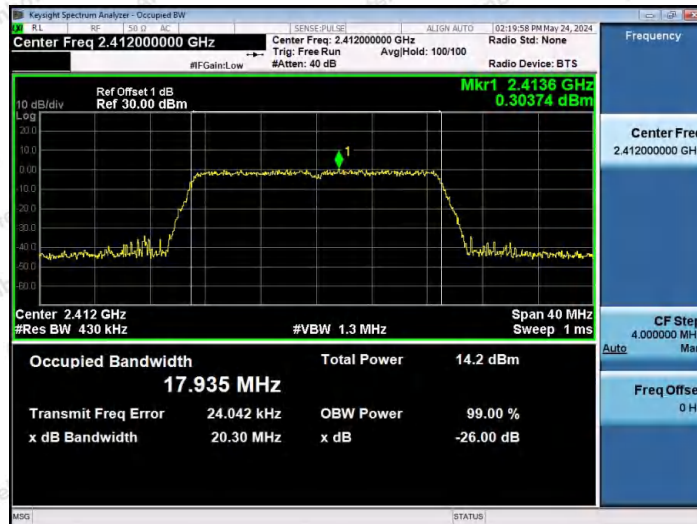
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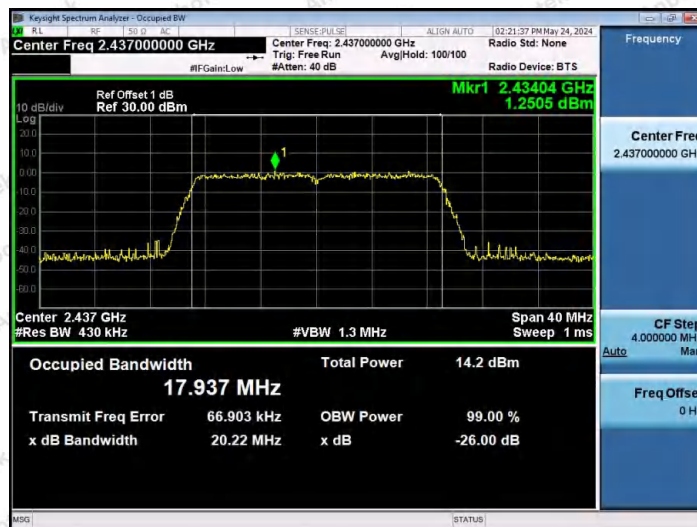
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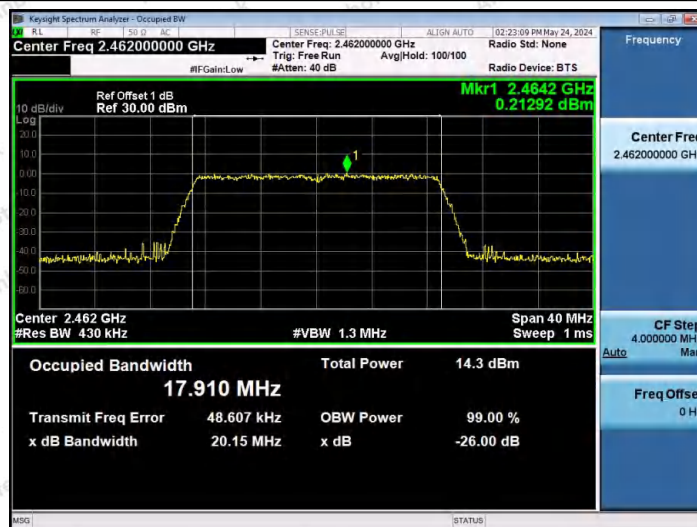




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



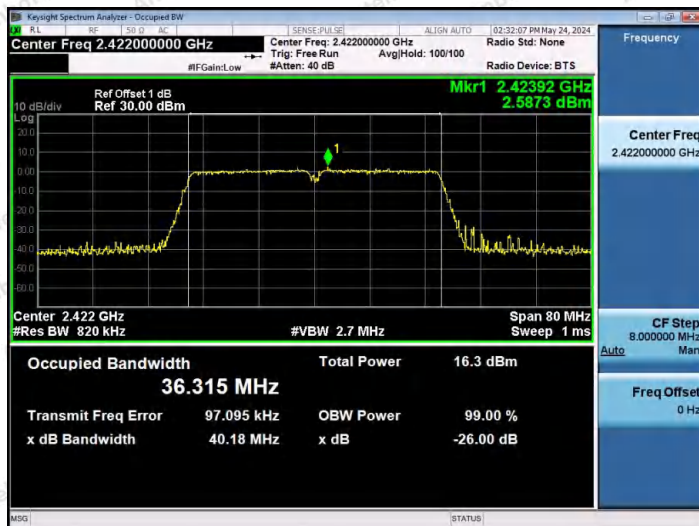
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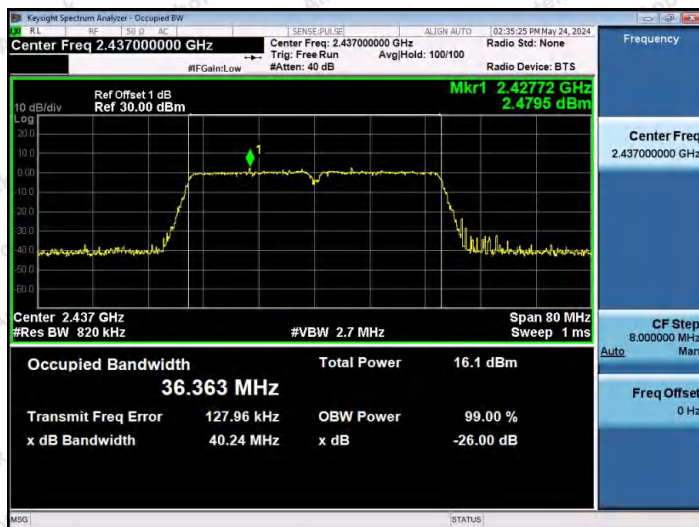
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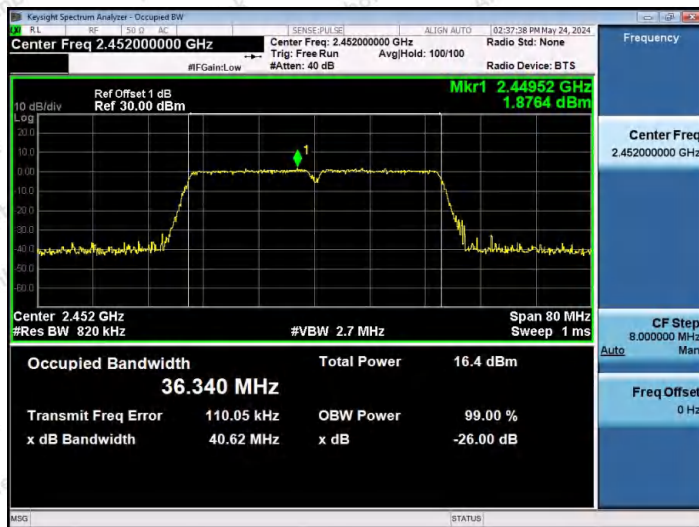




11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

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## Appendix C: Maximum conducted output power

### Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.88	99.76	0.01	14.89	≤30.00	PASS
11B	Ant1	2437	14.68	99.64	0.02	14.70	≤30.00	PASS
11B	Ant1	2462	14.89	99.76	0.01	14.90	≤30.00	PASS
11G	Ant1	2412	13.66	97.89	0.09	13.75	≤30.00	PASS
11G	Ant1	2437	13.72	97.20	0.12	13.84	≤30.00	PASS
11G	Ant1	2462	13.88	97.20	0.12	14.00	≤30.00	PASS
11N20SISO	Ant1	2412	12.62	97.74	0.10	12.72	≤30.00	PASS
11N20SISO	Ant1	2437	12.52	97.74	0.10	12.62	≤30.00	PASS
11N20SISO	Ant1	2462	12.76	97.74	0.10	12.86	≤30.00	PASS
11N40SISO	Ant1	2422	13.85	95.59	0.20	14.05	≤30.00	PASS
11N40SISO	Ant1	2437	13.94	94.20	0.26	14.20	≤30.00	PASS
11N40SISO	Ant1	2452	13.98	95.59	0.20	14.18	≤30.00	PASS

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

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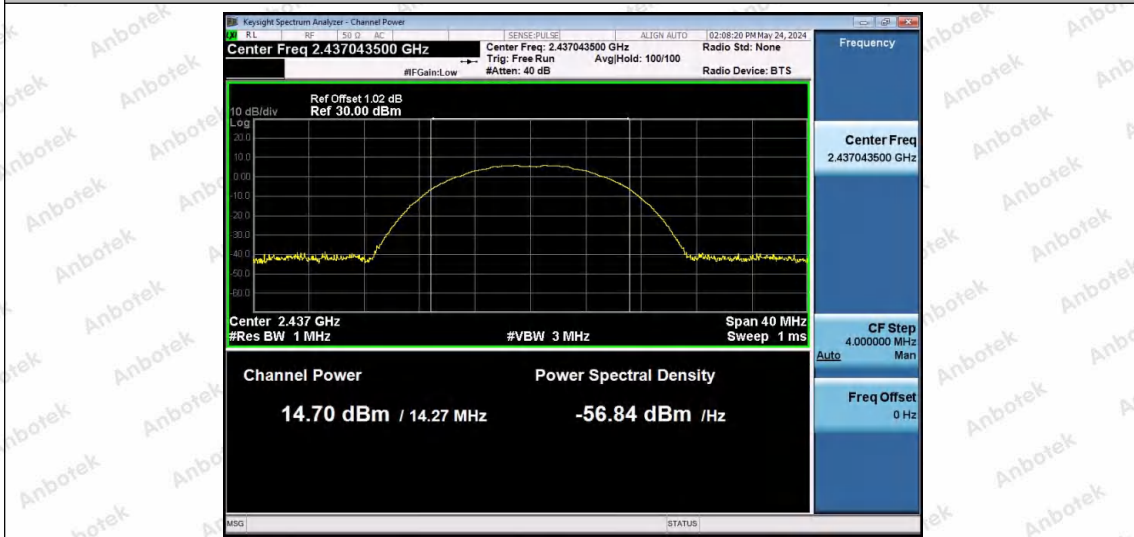
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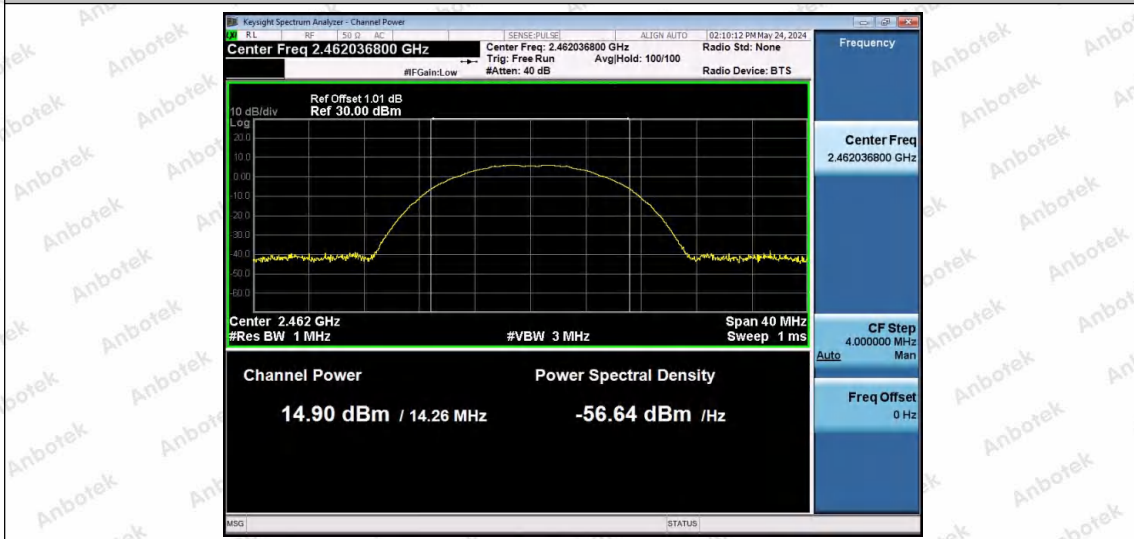
## Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

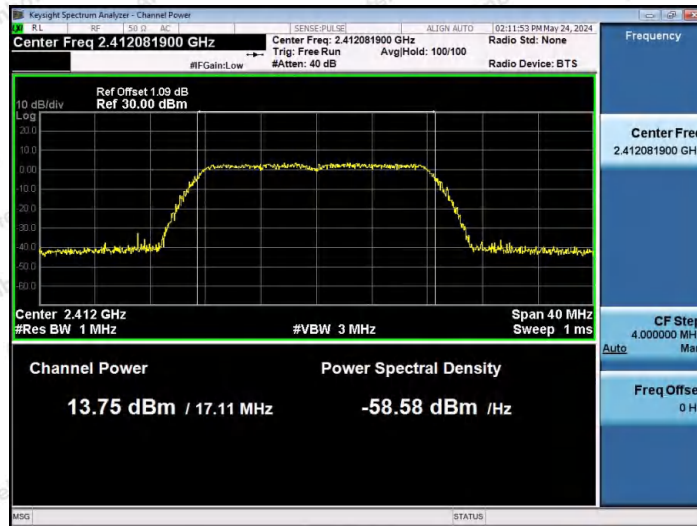
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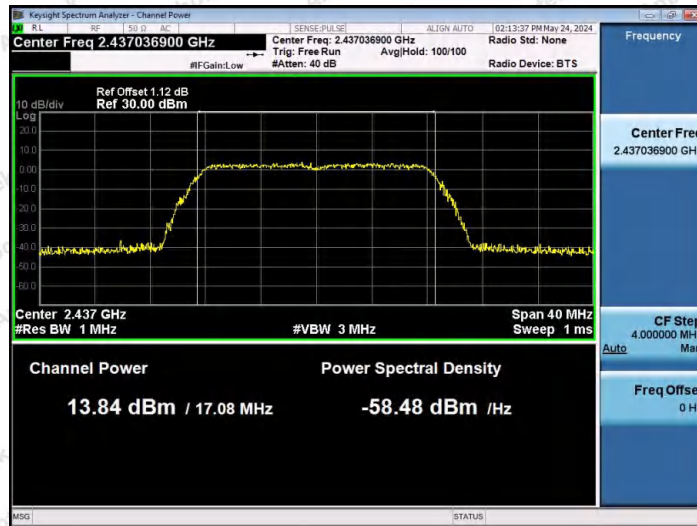
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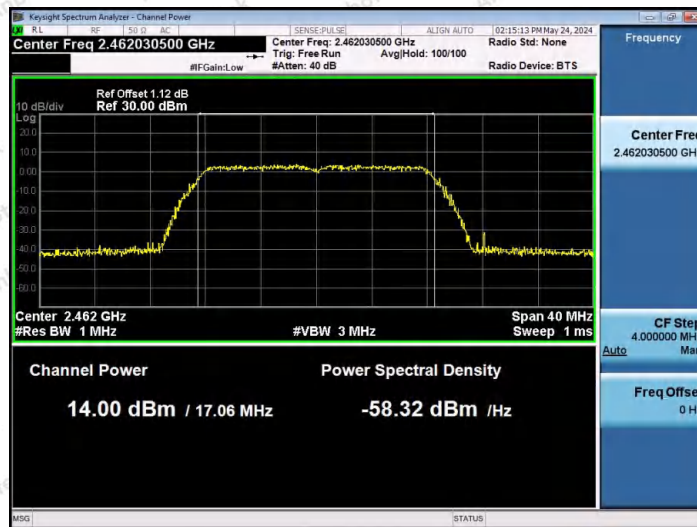




11G-Ant1-2412-PASS

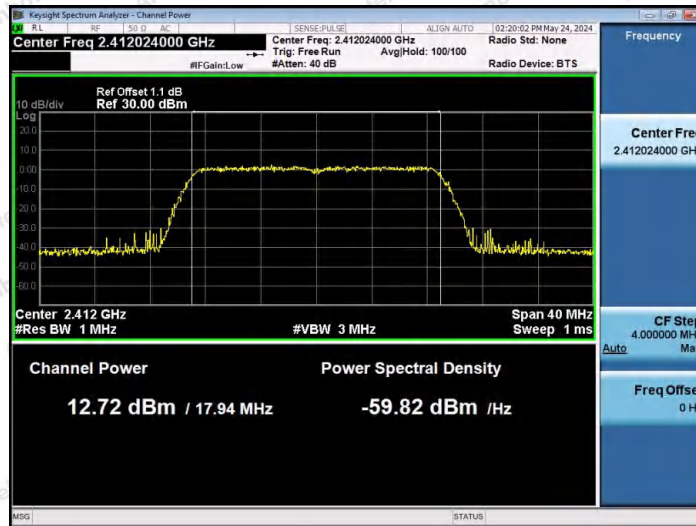


11G-Ant1-2437-PASS

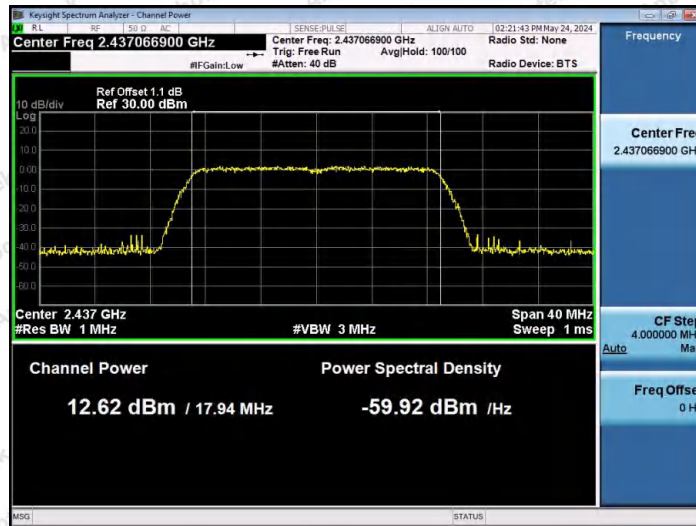


11G-Ant1-2462-PASS

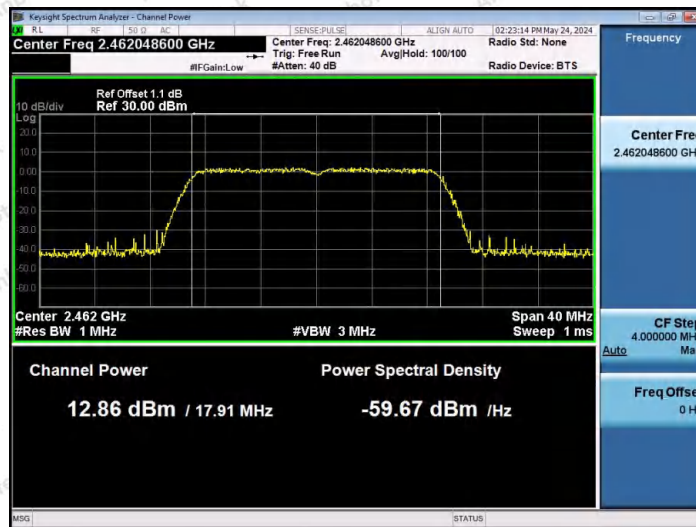




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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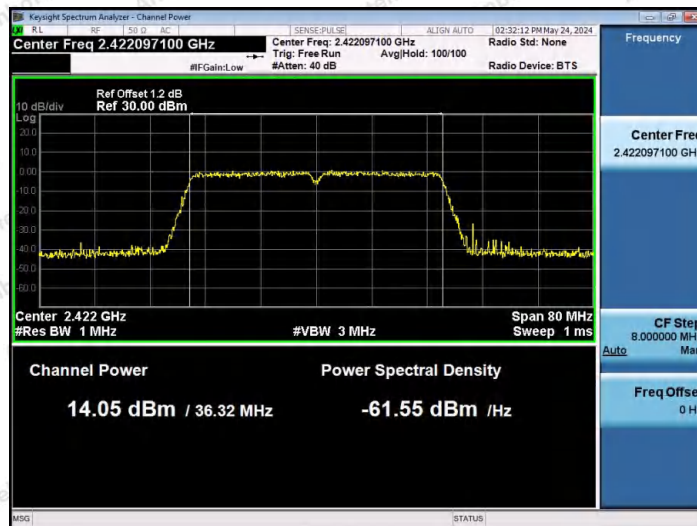
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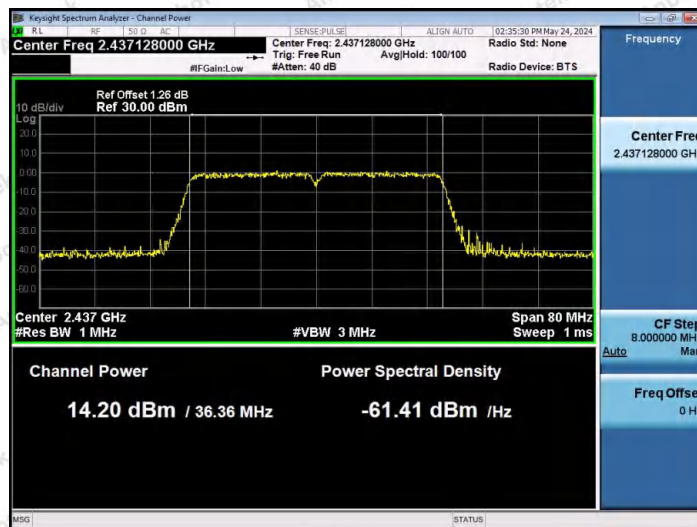
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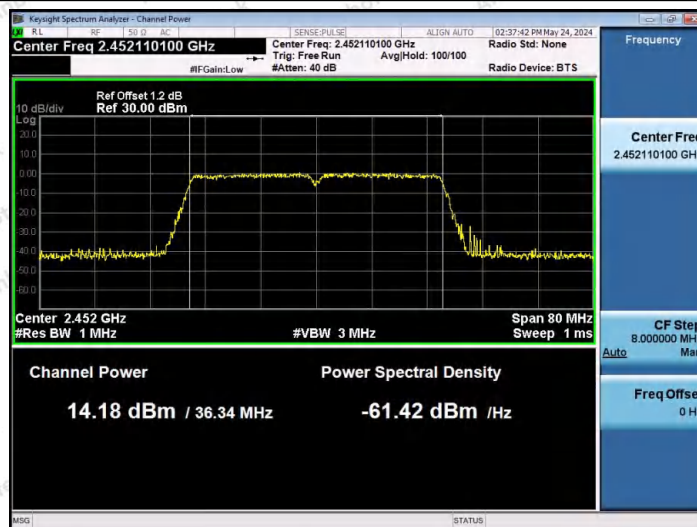




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.74	-18.74	≤8.00	PASS
11B	Ant1	2437	-8.86	-18.86	≤8.00	PASS
11B	Ant1	2462	-8.66	-18.66	≤8.00	PASS
11G	Ant1	2412	-15.21	-25.21	≤8.00	PASS
11G	Ant1	2437	-14.97	-24.97	≤8.00	PASS
11G	Ant1	2462	-15.15	-25.15	≤8.00	PASS
11N20SIS O	Ant1	2412	-16.17	-26.17	≤8.00	PASS
11N20SIS O	Ant1	2437	-16.25	-26.25	≤8.00	PASS
11N20SIS O	Ant1	2462	-15.99	-25.99	≤8.00	PASS
11N40SIS O	Ant1	2422	-17.52	-27.52	≤8.00	PASS
11N40SIS O	Ant1	2437	-17.81	-27.81	≤8.00	PASS
11N40SIS O	Ant1	2452	-17.06	-27.06	≤8.00	PASS

#### Note:

1. The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.
2.  $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

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## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



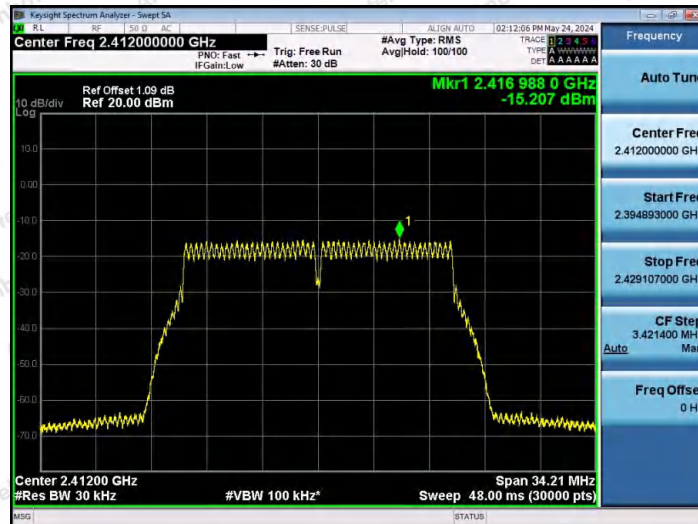
11B-Ant1-2462-PASS

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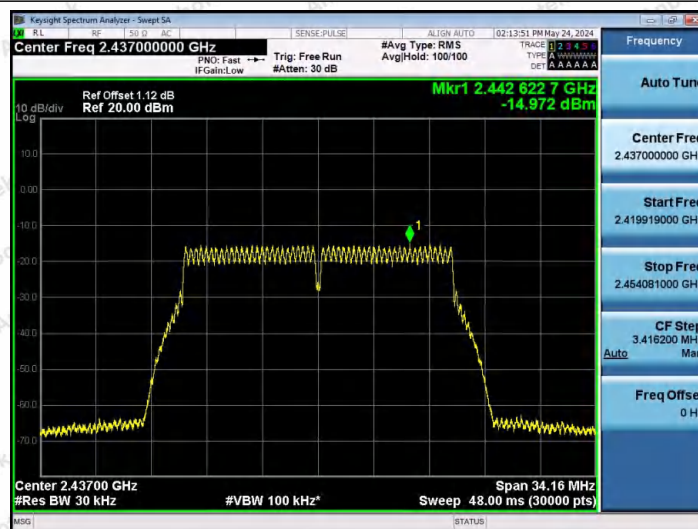
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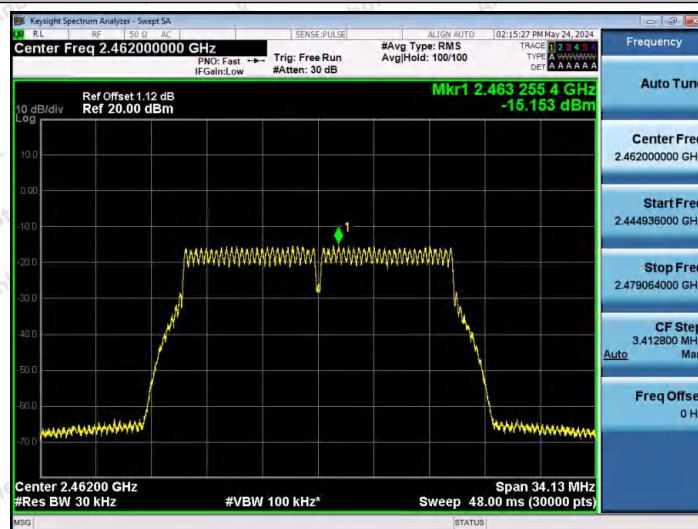




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

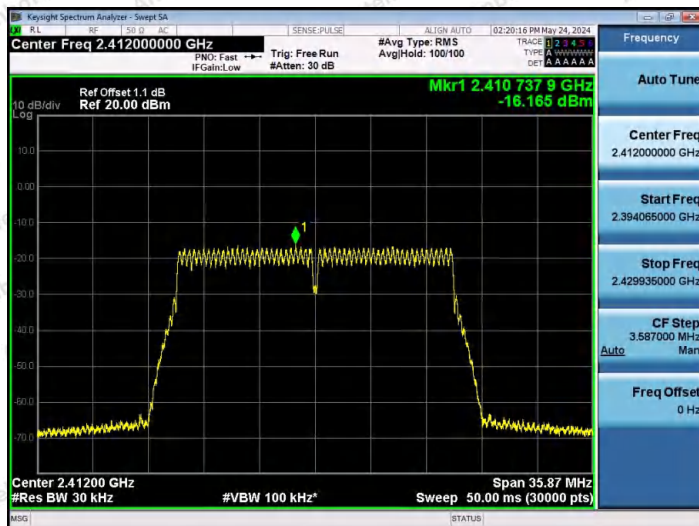
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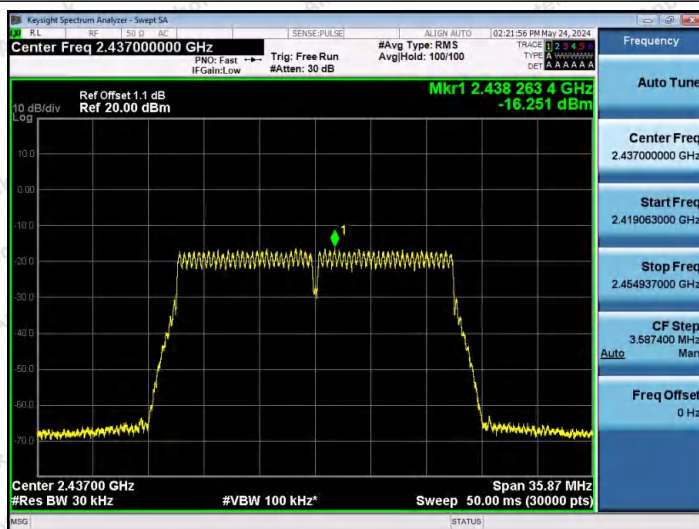
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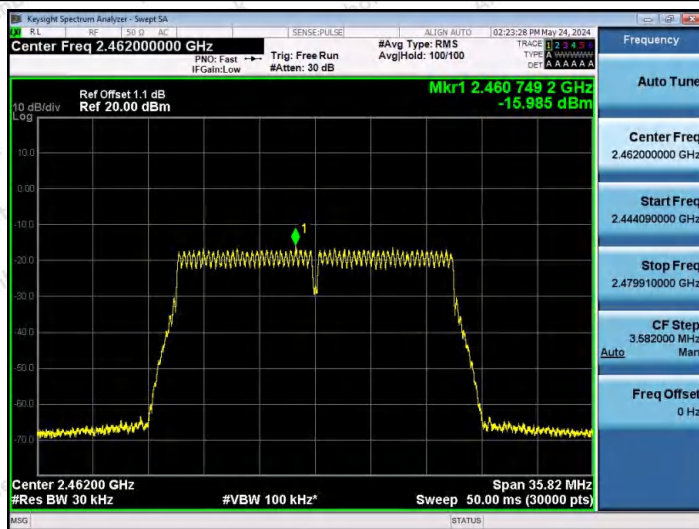




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



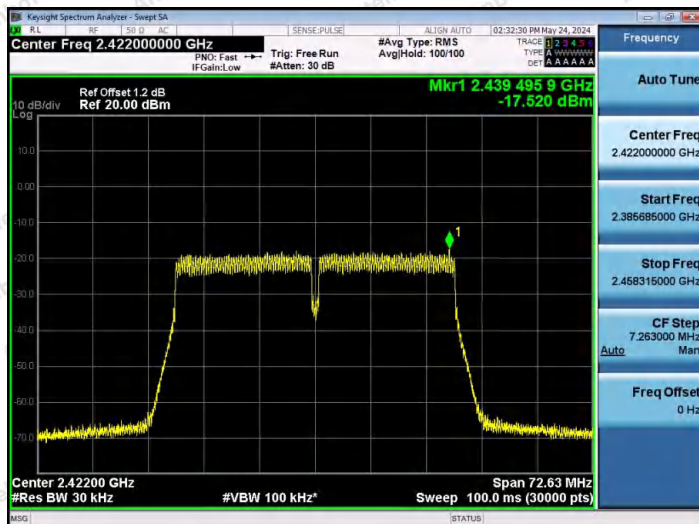
11N20SISO-Ant1-2462-PASS

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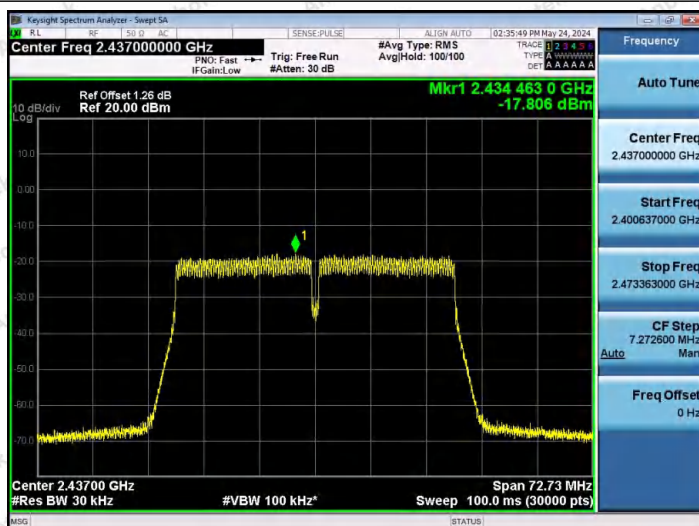
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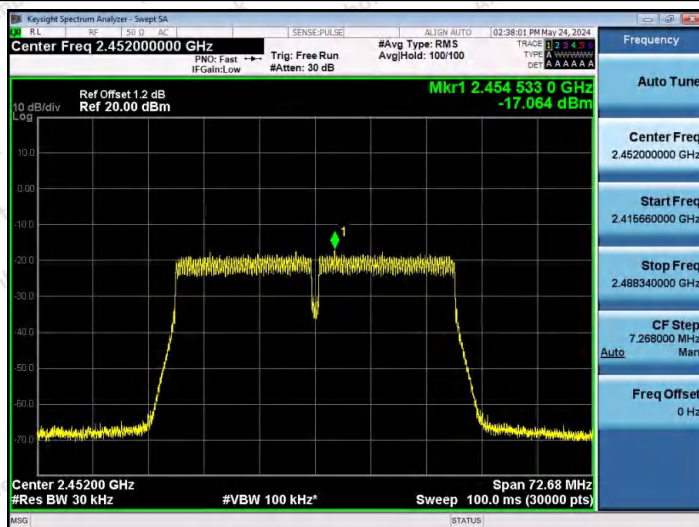




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix E: Conducted Band edge

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.95	-47.64	≤-26.05	PASS
11B	Ant1	High	2462	4.57	-54.8	≤-25.43	PASS
11G	Ant1	Low	2412	-2.42	-49.46	≤-32.42	PASS
11G	Ant1	High	2462	-2.02	-52.88	≤-32.02	PASS
11N20SISO	Ant1	Low	2412	-2.69	-46.73	≤-32.69	PASS
11N20SISO	Ant1	High	2462	-2.65	-52.43	≤-32.65	PASS
11N40SISO	Ant1	Low	2422	-4.93	-47.36	≤-34.93	PASS
11N40SISO	Ant1	High	2452	-4.89	-50.75	≤-34.89	PASS

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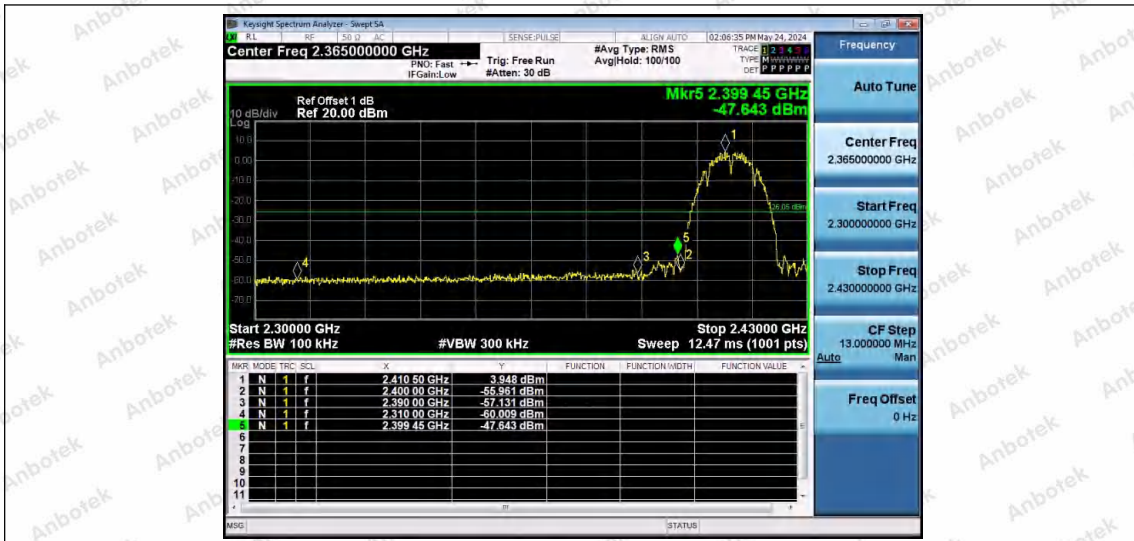
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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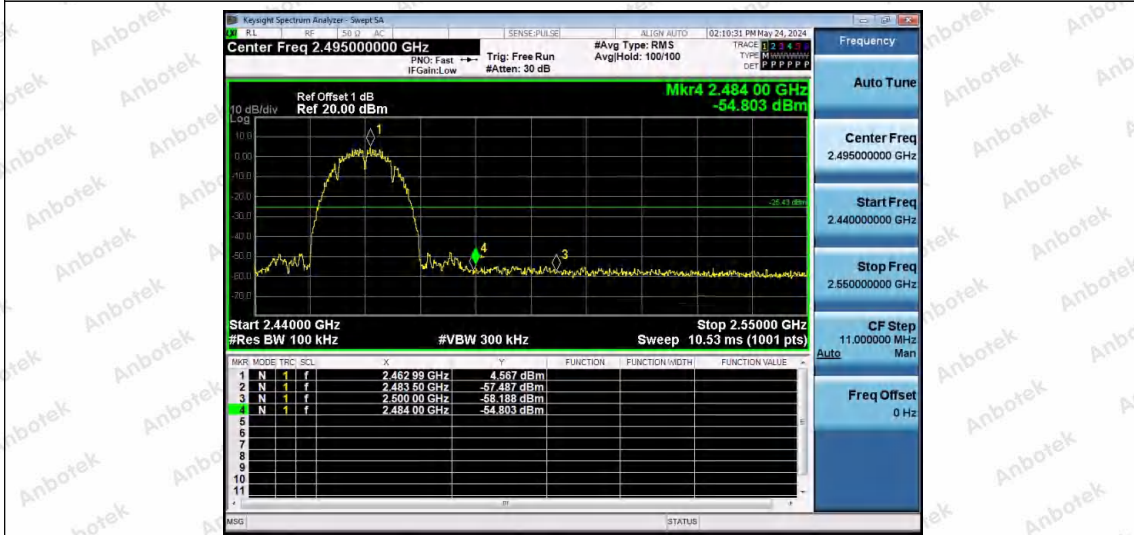
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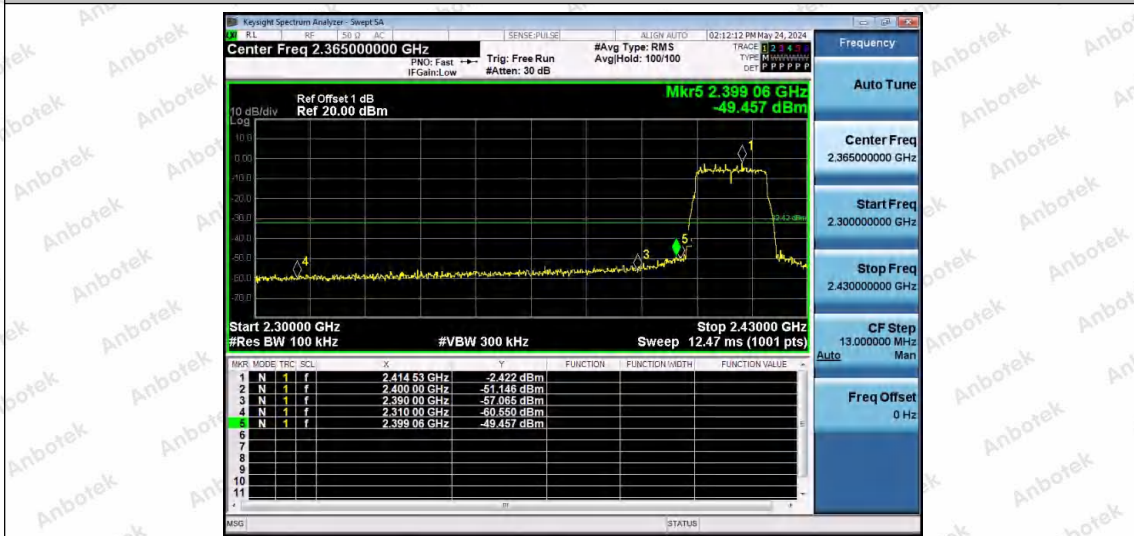
## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

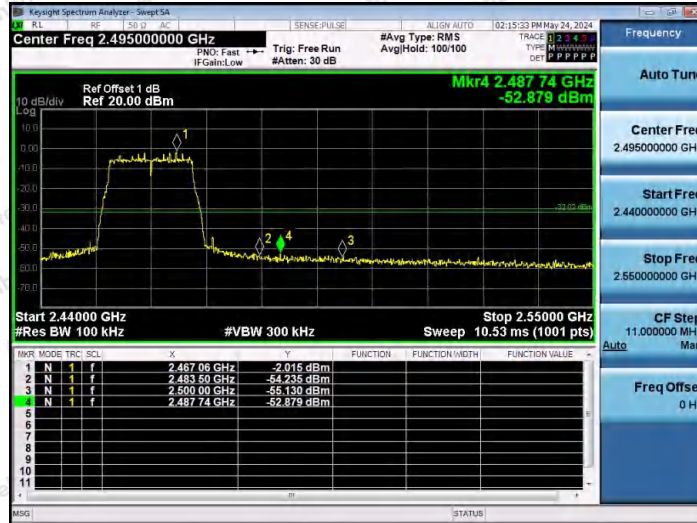
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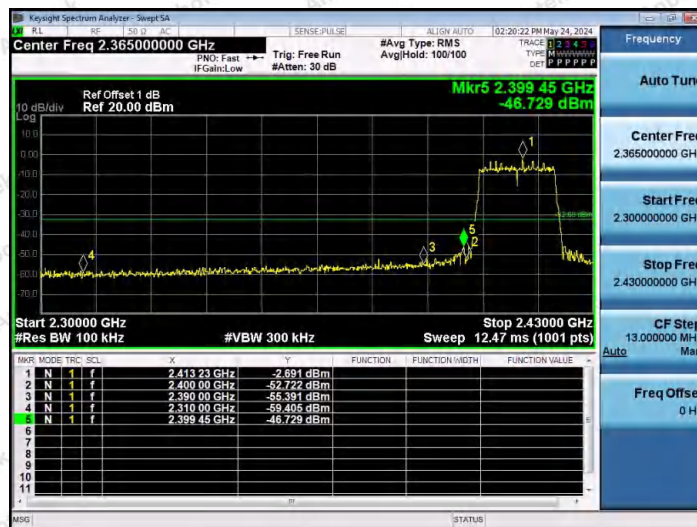
Hotline  
 400-003-0500  
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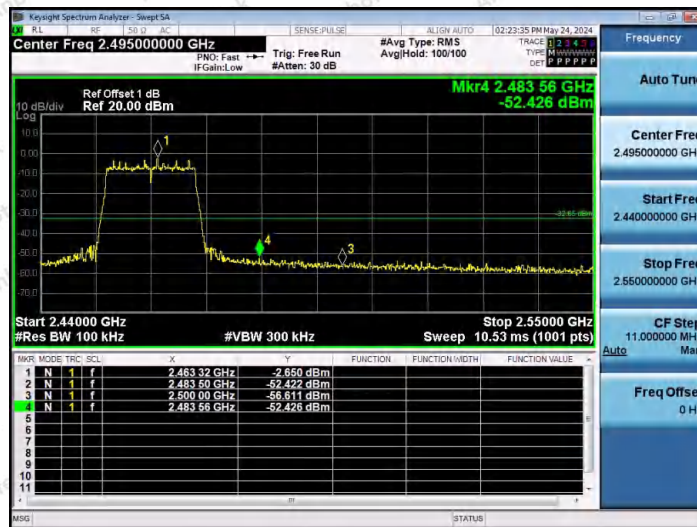




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



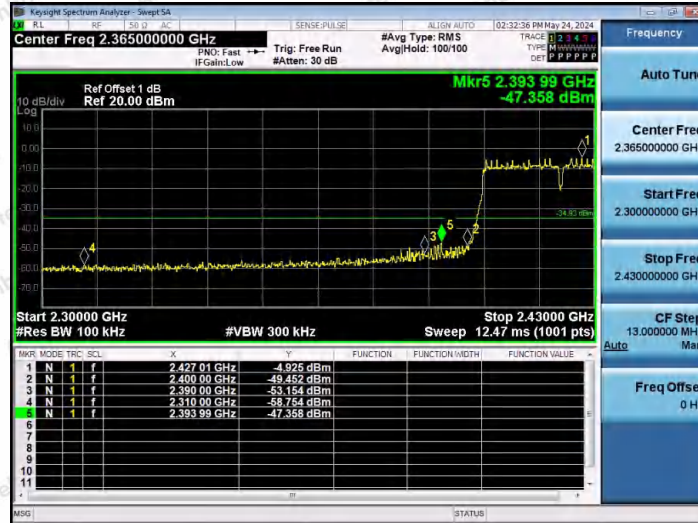
11N20SISO-Ant1-2462-PASS

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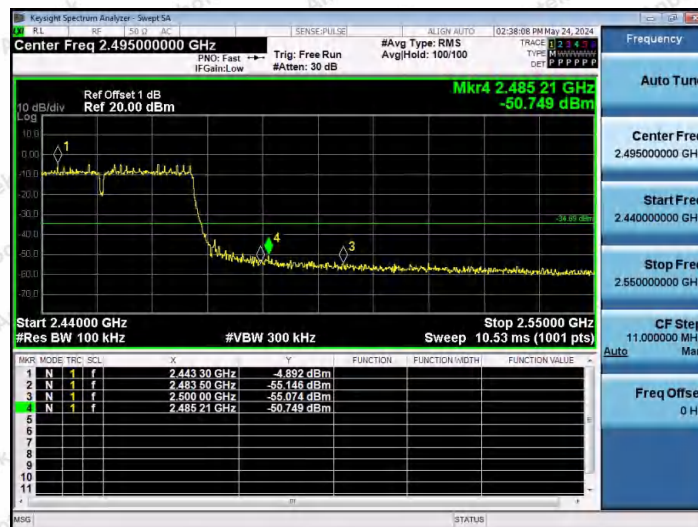
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-PASS

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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	0~Reference	2.57	2.57	---	PASS
11B	Ant1	2412	30~1000	2.57	-68.57	≤-27.43	PASS
11B	Ant1	2412	1000~26500	2.57	-52.62	≤-27.43	PASS
11B	Ant1	2437	0~Reference	3.56	3.56	---	PASS
11B	Ant1	2437	30~1000	3.56	-69.04	≤-26.44	PASS
11B	Ant1	2437	1000~26500	3.56	-53.71	≤-26.44	PASS
11B	Ant1	2462	0~Reference	2.91	2.91	---	PASS
11B	Ant1	2462	30~1000	2.91	-69.18	≤-27.09	PASS
11B	Ant1	2462	1000~26500	2.91	-53.6	≤-27.09	PASS
11G	Ant1	2412	0~Reference	-4.94	-4.94	---	PASS
11G	Ant1	2412	30~1000	-4.94	-69.51	≤-34.94	PASS
11G	Ant1	2412	1000~26500	-4.94	-53.44	≤-34.94	PASS
11G	Ant1	2437	0~Reference	-5.50	-5.50	---	PASS
11G	Ant1	2437	30~1000	-5.50	-68.64	≤-35.5	PASS
11G	Ant1	2437	1000~26500	-5.50	-53.82	≤-35.5	PASS
11G	Ant1	2462	0~Reference	-2.30	-2.30	---	PASS
11G	Ant1	2462	30~1000	-2.30	-68.15	≤-32.3	PASS
11G	Ant1	2462	1000~26500	-2.30	-52.31	≤-32.3	PASS
11N20SISO	Ant1	2412	0~Reference	-6.45	-6.45	---	PASS
11N20SISO	Ant1	2412	30~1000	-6.45	-68.6	≤-36.45	PASS
11N20SISO	Ant1	2412	1000~26500	-6.45	-53.64	≤-36.45	PASS
11N20SISO	Ant1	2437	0~Reference	-3.16	-3.16	---	PASS
11N20SISO	Ant1	2437	30~1000	-3.16	-61.53	≤-33.16	PASS
11N20SISO	Ant1	2437	1000~26500	-3.16	-54.14	≤-33.16	PASS
11N20SISO	Ant1	2462	0~Reference	-4.62	-4.62	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.62	-69.54	≤-34.62	PASS
11N20SISO	Ant1	2462	1000~26500	-4.62	-52.36	≤-34.62	PASS
11N40SISO	Ant1	2422	0~Reference	-5.10	-5.10	---	PASS
11N40SISO	Ant1	2422	30~1000	-5.10	-68.99	≤-35.1	PASS
11N40SISO	Ant1	2422	1000~26500	-5.10	-53.13	≤-35.1	PASS
11N40SISO	Ant1	2437	0~Reference	-4.73	-4.73	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.73	-69.35	≤-34.73	PASS
11N40SISO	Ant1	2437	1000~26500	-4.73	-54	≤-34.73	PASS
11N40SISO	Ant1	2452	0~Reference	-4.99	-4.99	---	PASS
11N40SISO	Ant1	2452	30~1000	-4.99	-68.97	≤-34.99	PASS
11N40SISO	Ant1	2452	1000~26500	-4.99	-53.39	≤-34.99	PASS

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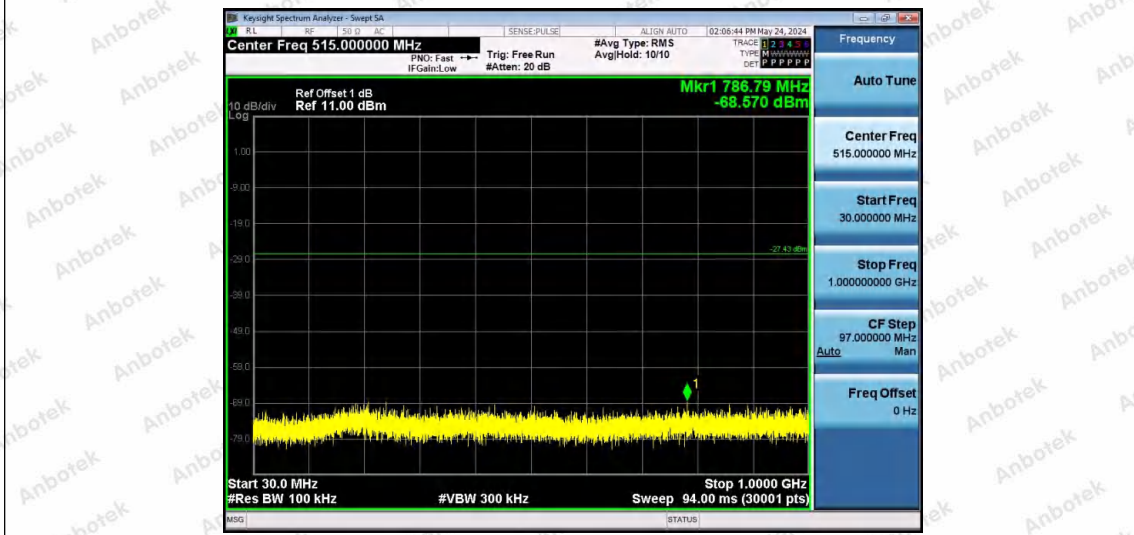
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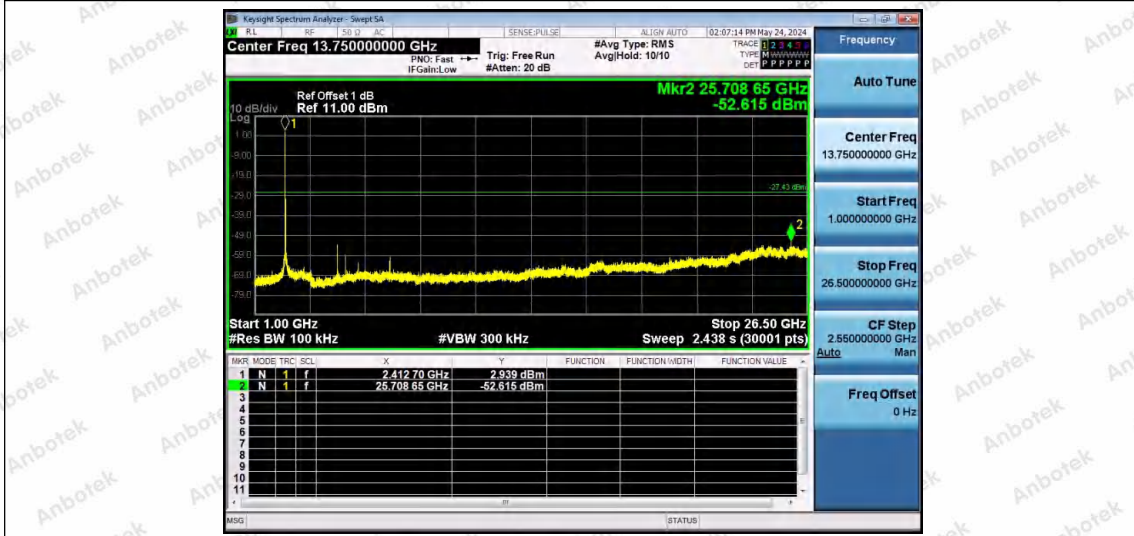
## Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS

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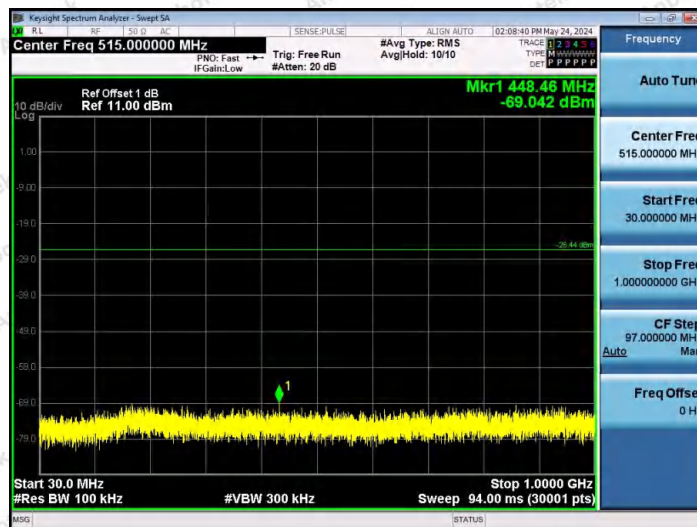
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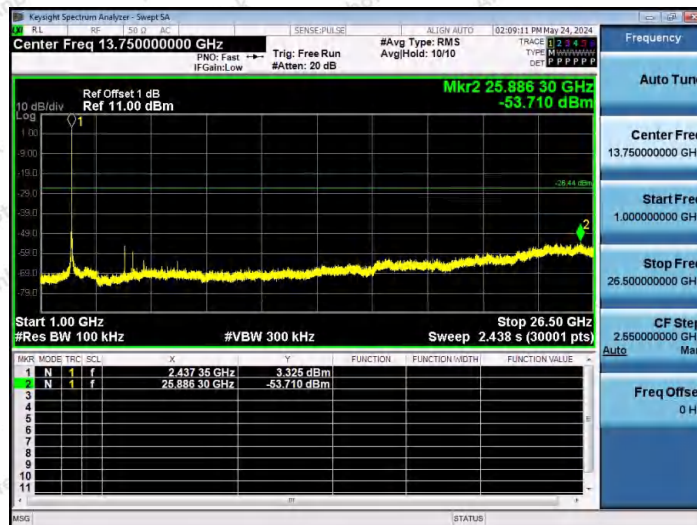




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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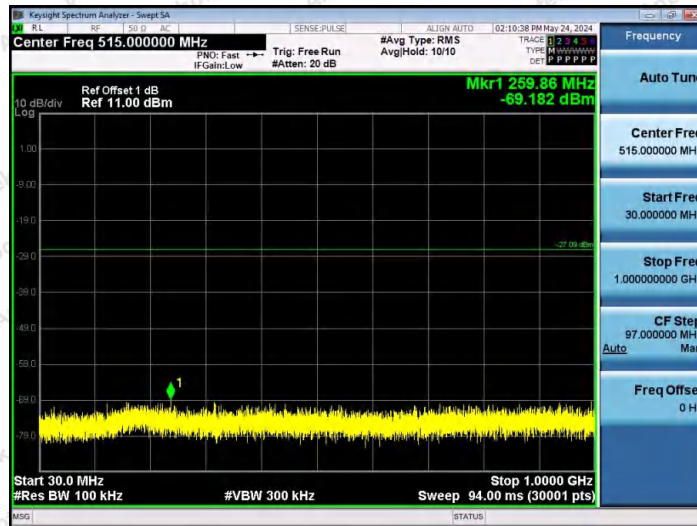
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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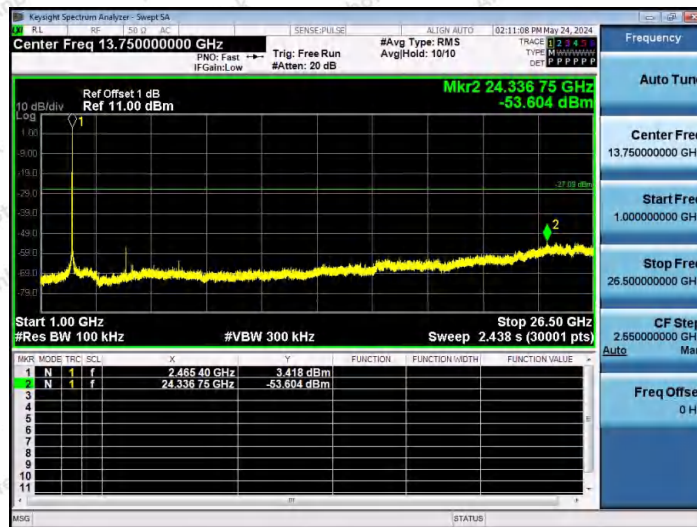




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

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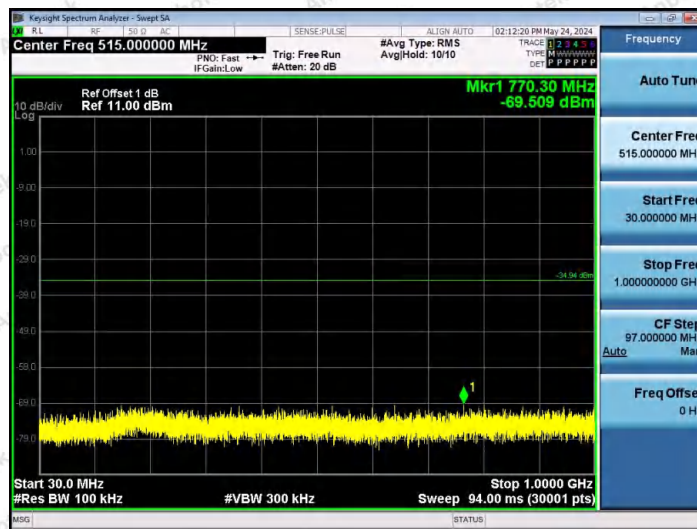
Hotline 400-003-0500  
www.anbotek.com.cn



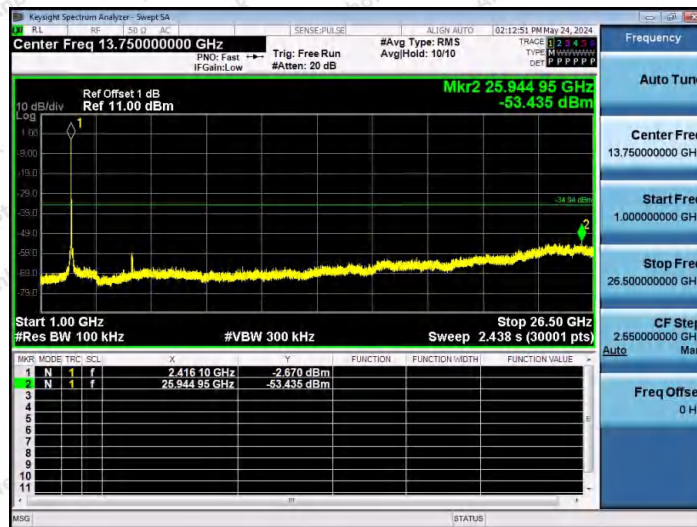




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



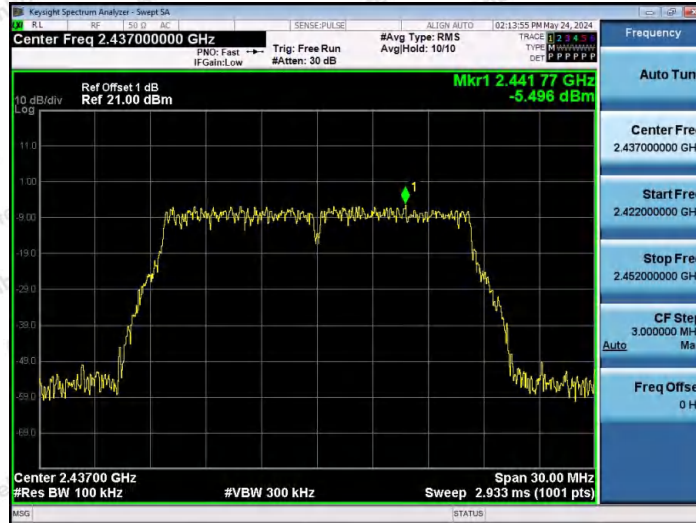
11G-Ant1-2412-1000~26500-PASS

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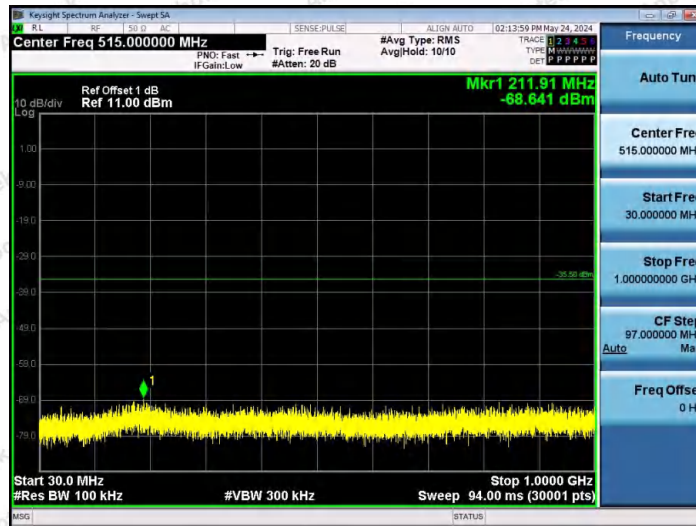
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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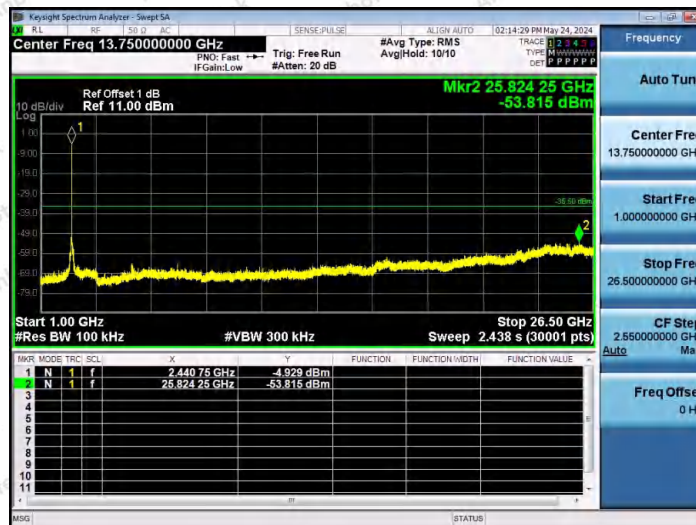




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

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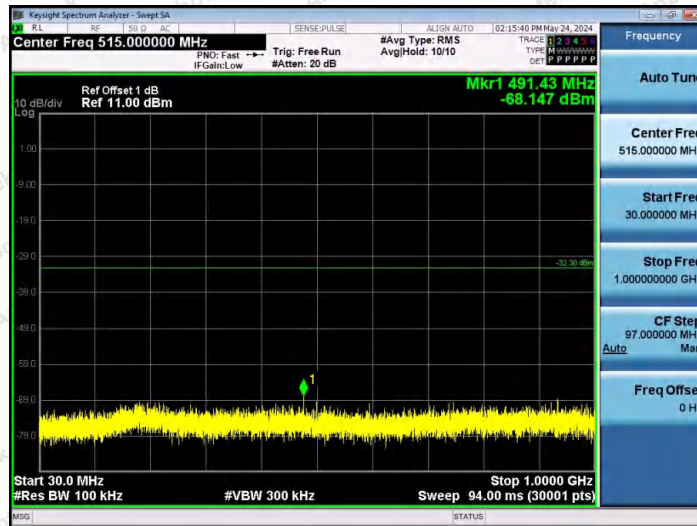
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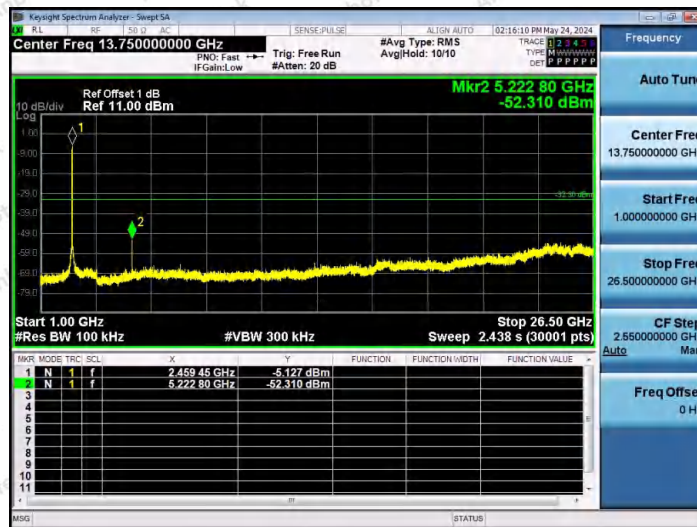




11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS

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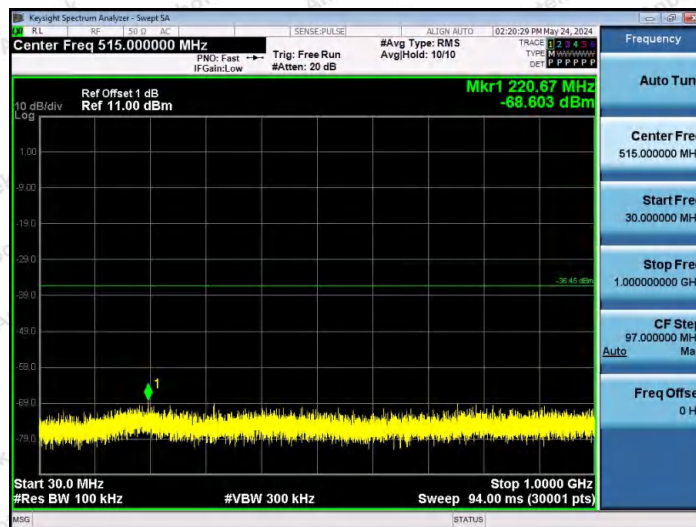
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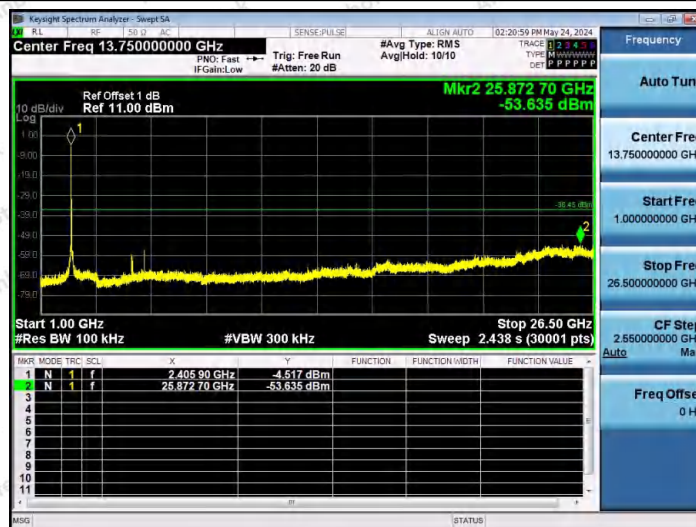




11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

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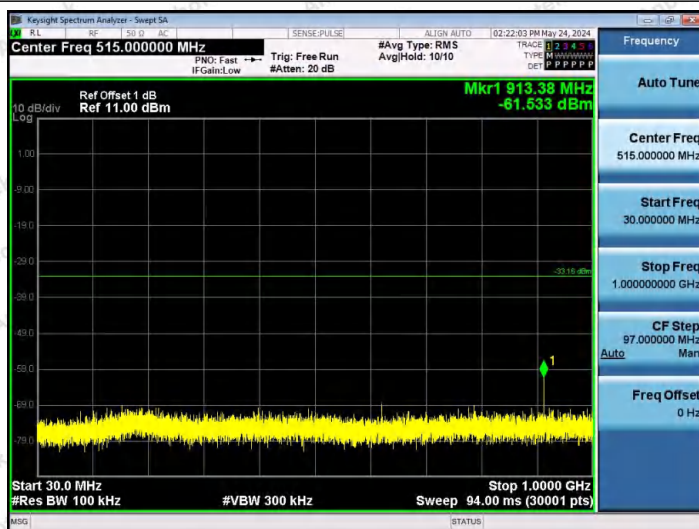
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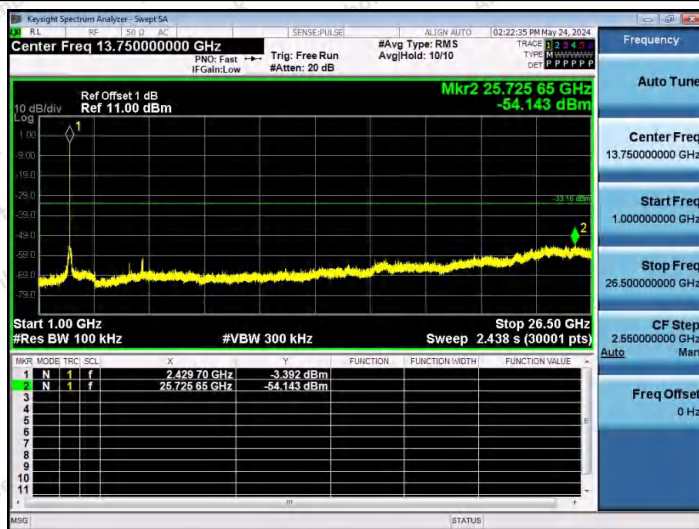




11N20SISO-Ant1-2437-0~Reference-PASS



11N20SISO-Ant1-2437-30~1000-PASS



11N20SISO-Ant1-2437-1000~26500-PASS

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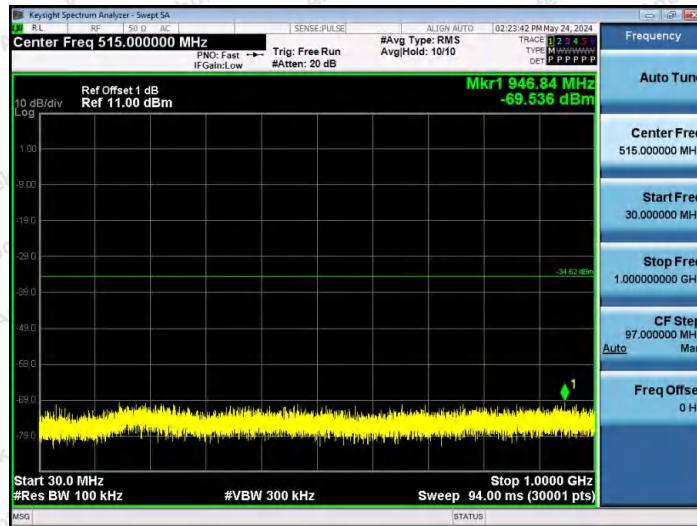
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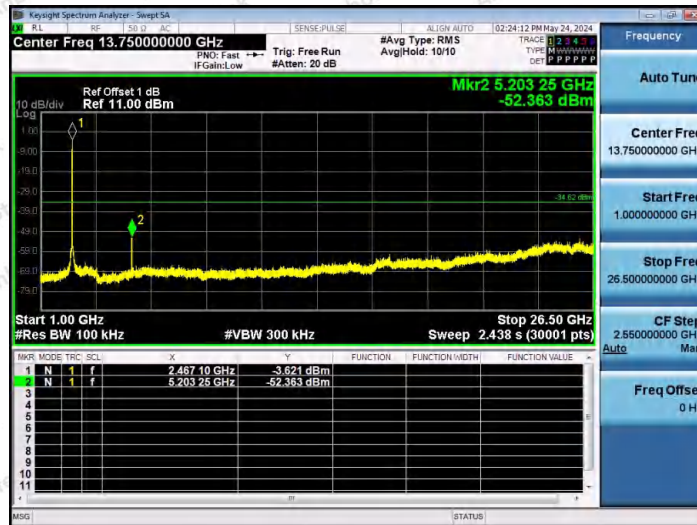




11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

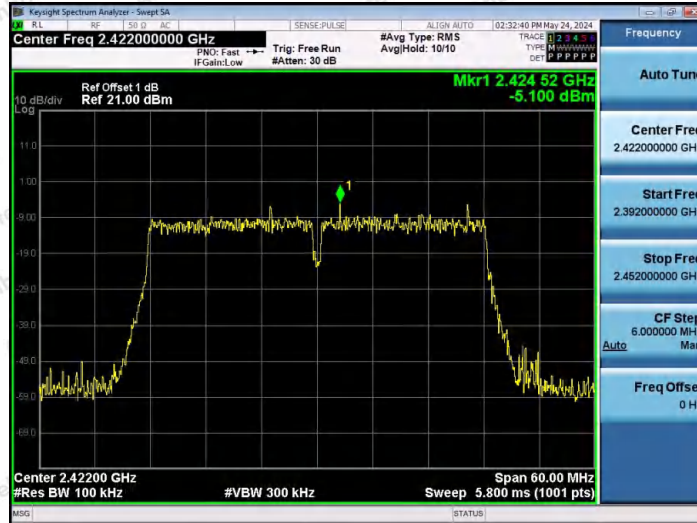
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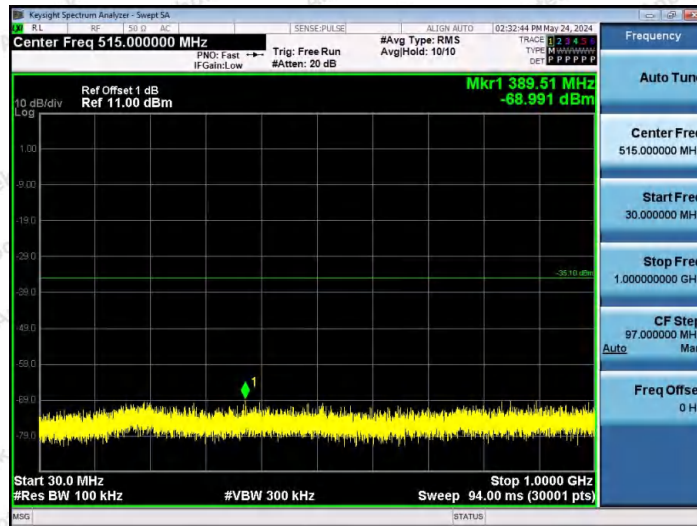
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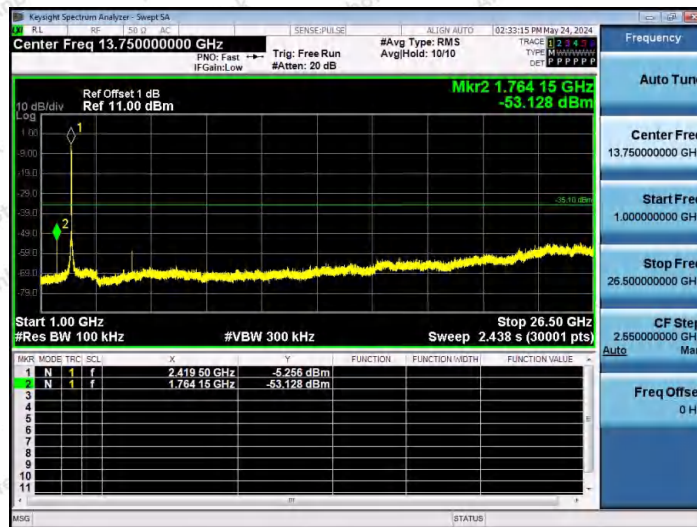




11N40SISO-Ant1-2422-0~Reference-PASS



11N40SISO-Ant1-2422-30~1000-PASS



11N40SISO-Ant1-2422-1000~26500-PASS

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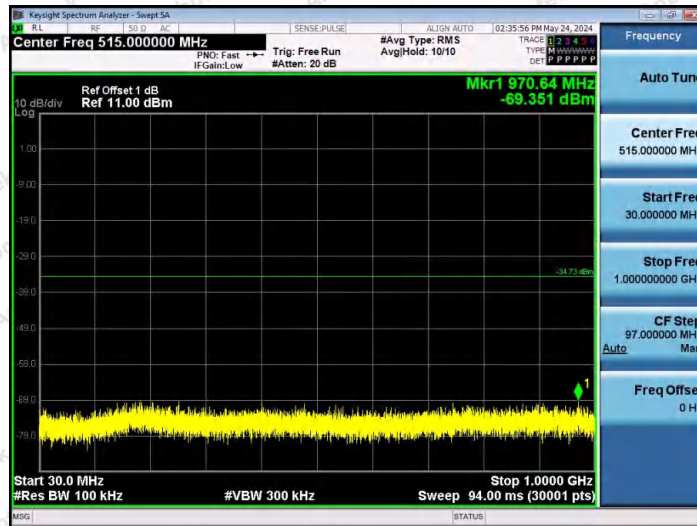
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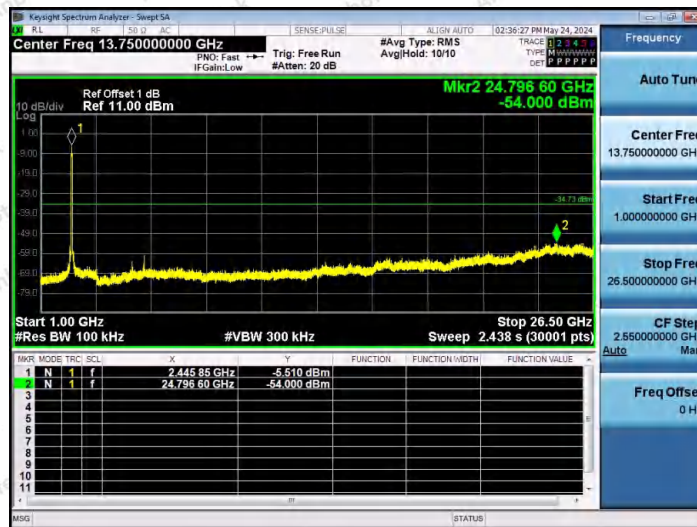




11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS



11N40SISO-Ant1-2437-1000~26500-PASS

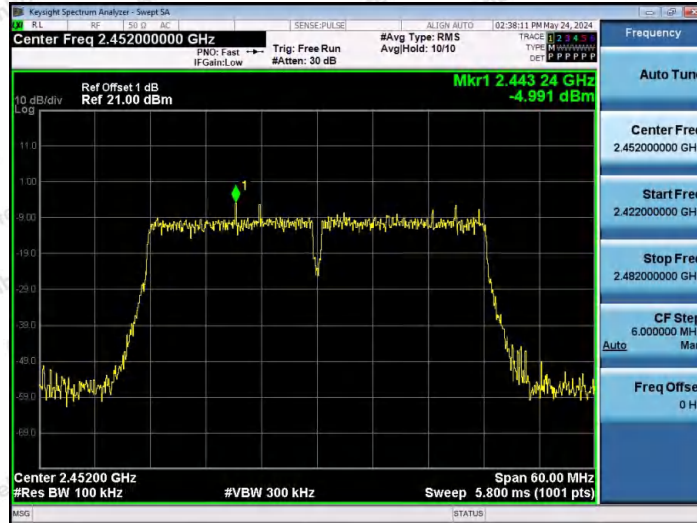
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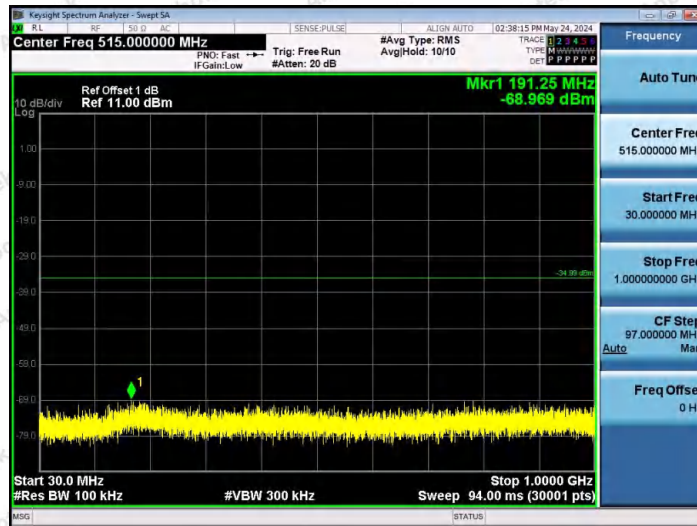
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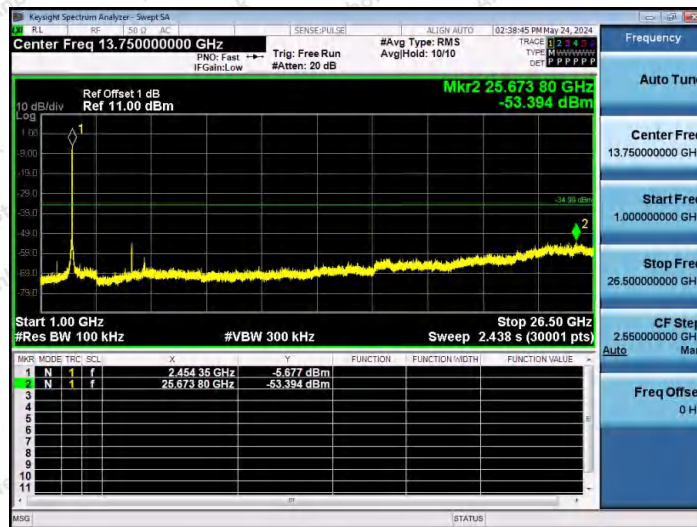




11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS



11N40SISO-Ant1-2452-1000~26500-PASS

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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	8.39	8.41	99.76	0.01
11B	Ant1	2437	8.39	8.42	99.64	0.02
11B	Ant1	2462	8.39	8.41	99.76	0.01
11G	Ant1	2412	1.39	1.42	97.89	0.09
11G	Ant1	2437	1.39	1.43	97.20	0.12
11G	Ant1	2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2437	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2462	1.30	1.33	97.74	0.10
11N40SISO	Ant1	2422	0.65	0.68	95.59	0.20
11N40SISO	Ant1	2437	0.65	0.69	94.20	0.26
11N40SISO	Ant1	2452	0.65	0.68	95.59	0.20

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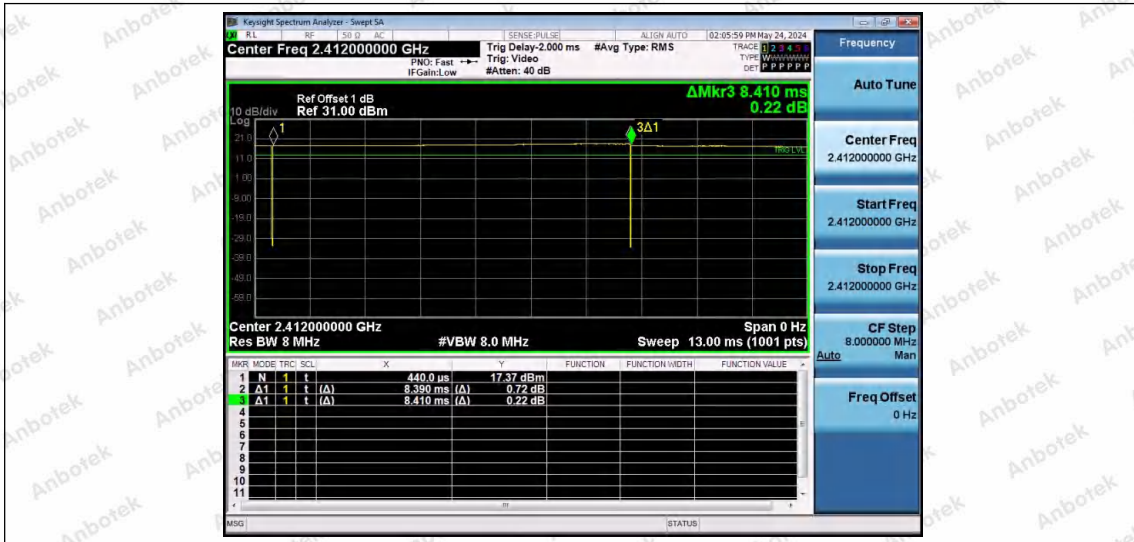


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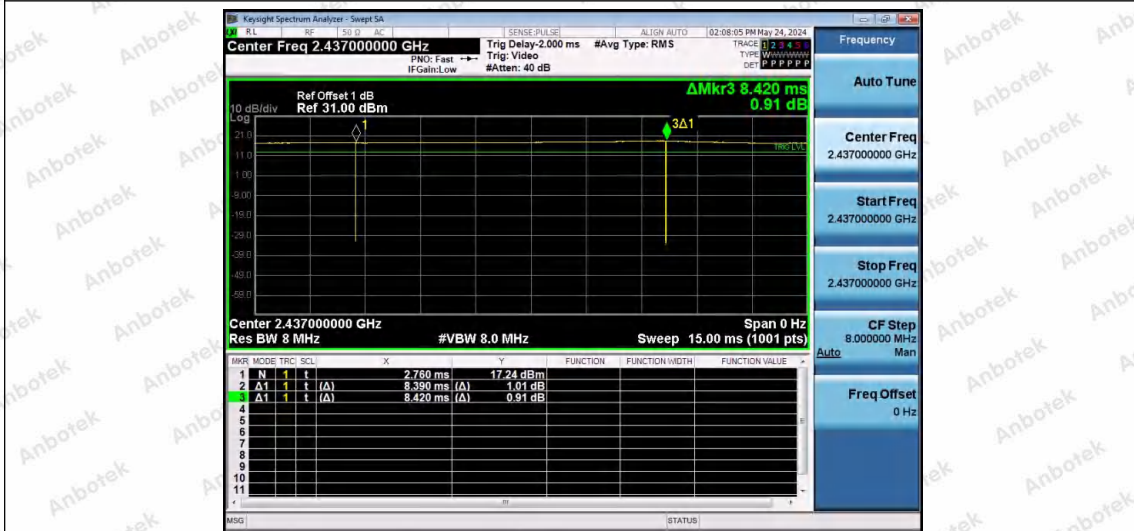




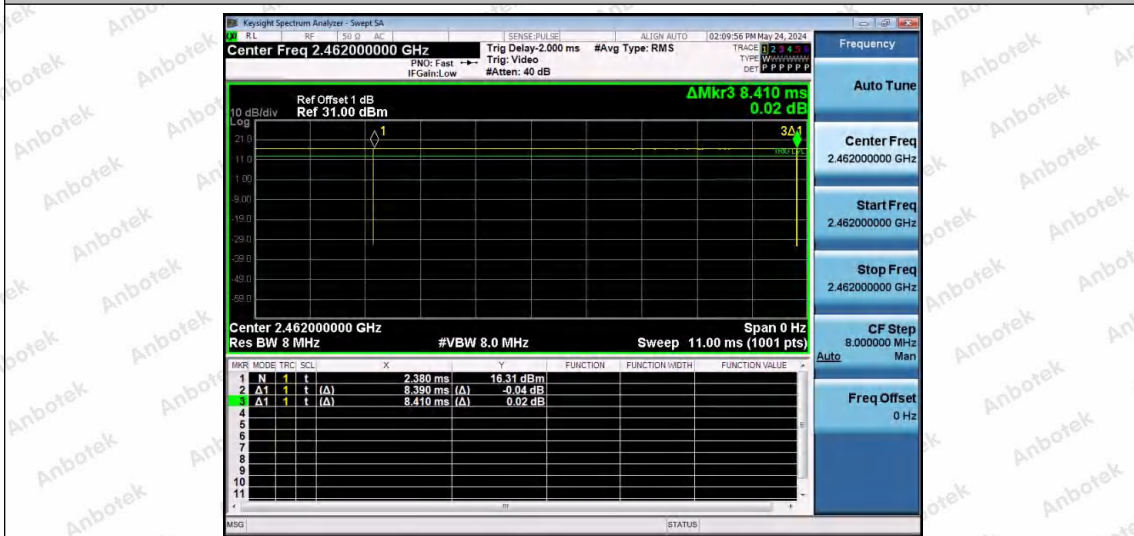
## Test Graphs



NTNV-11B-Ant1-2412



NTNV-11B-Ant1-2437



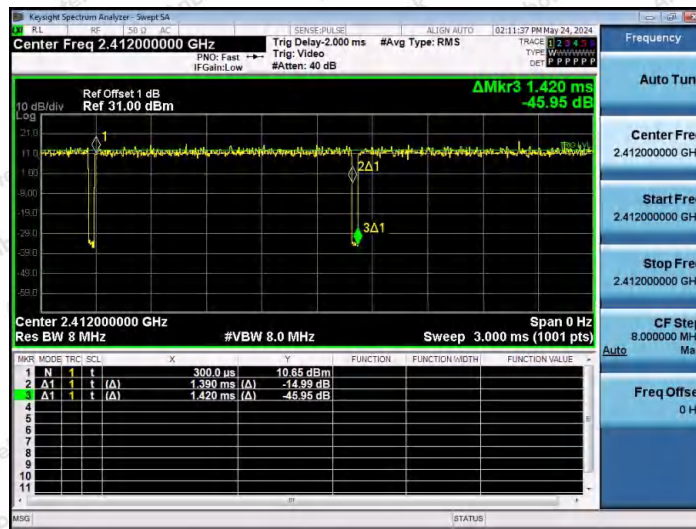
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

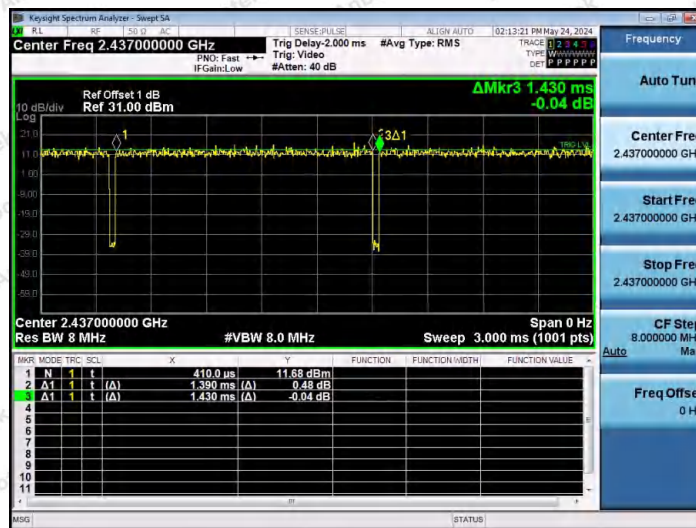
Hotline  
 400-003-0500  
[www.anbotek.com.cn](http://www.anbotek.com.cn)



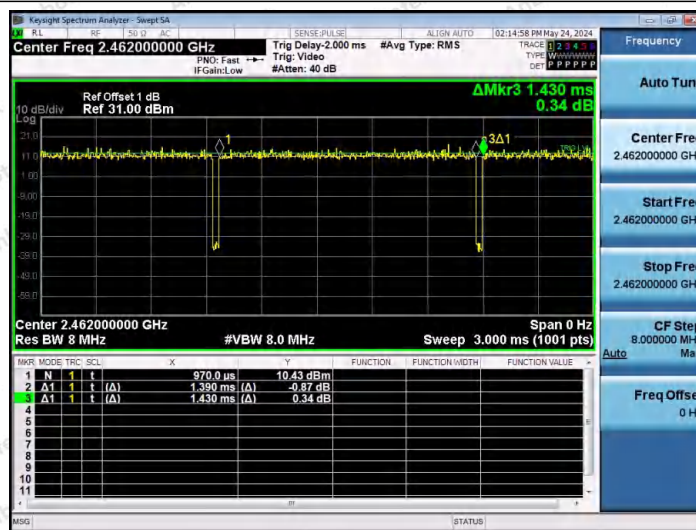
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

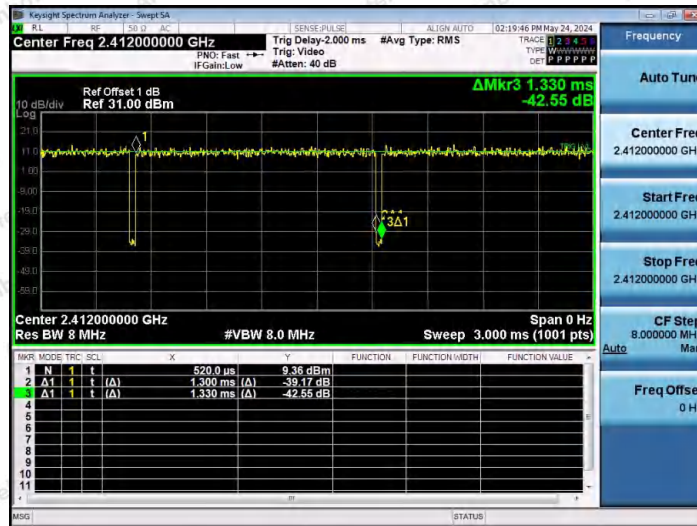
## Shenzhen Anbotek Compliance Laboratory Limited

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

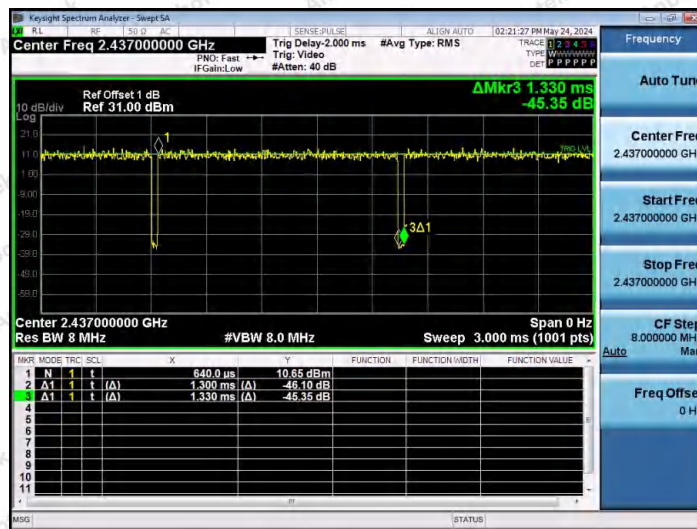
Hotline 400-003-0500  
 www.anbotek.com.cn



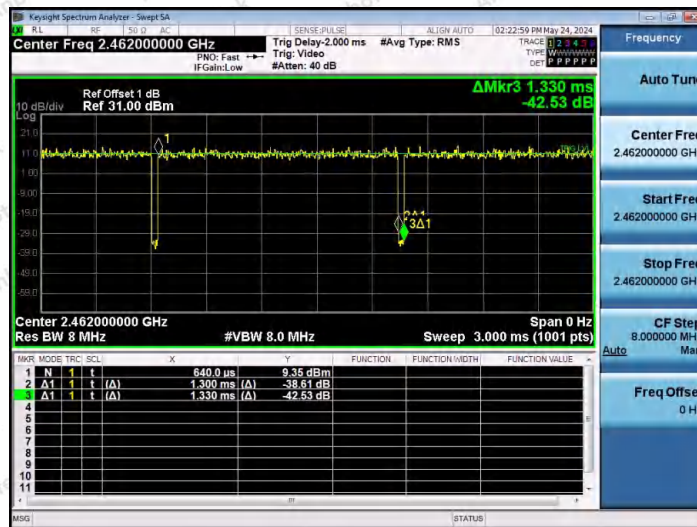




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



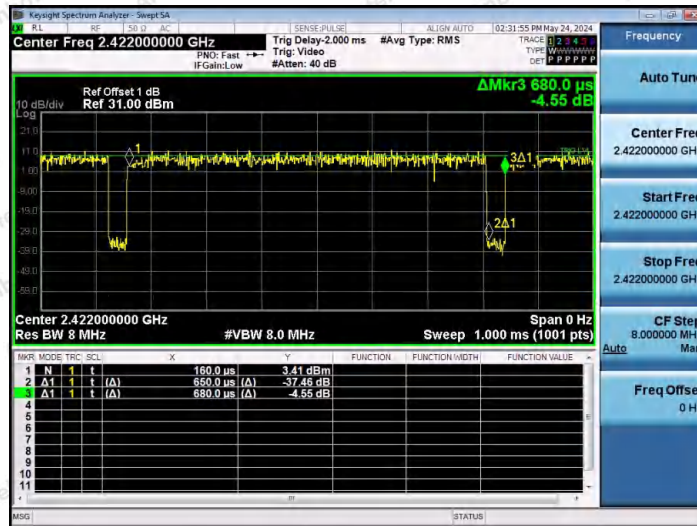
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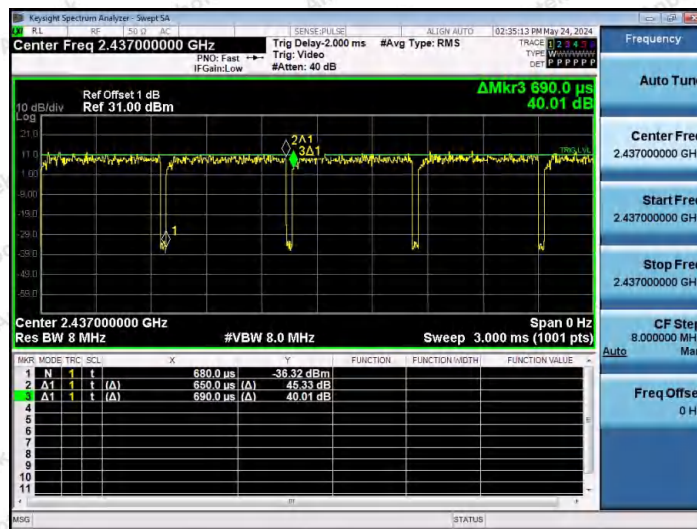
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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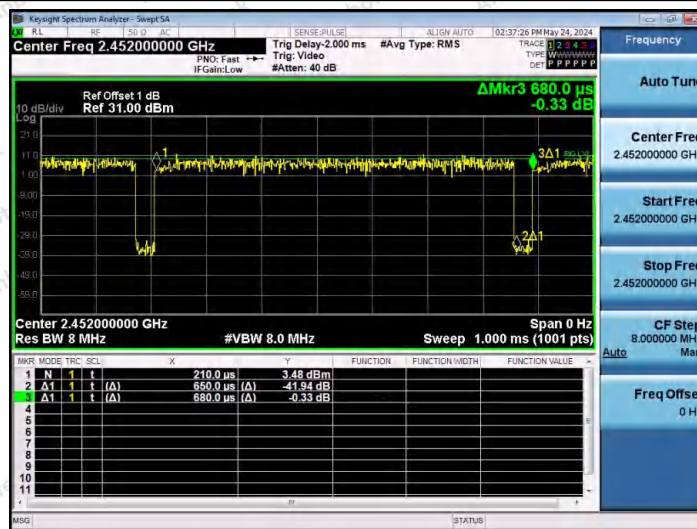




NTNV-11N40SISO-Ant1-2422



NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452

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