

## Appendix Test Data

Report No.:	18220WC30128201	Test Sample No.:	1-2-2
Start Test Date:	2023.06.28	Finish Test Date:	2023.07.27
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4°C	Relative Humidity:	49%
Pressure:	1012 hPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.000	2417.000	≥0.5	PASS
	Ant2	2412	10.000	2407.000	2417.000	≥0.5	PASS
	Ant1	2437	10.040	2431.960	2442.000	≥0.5	PASS
	Ant2	2437	9.560	2432.440	2442.000	≥0.5	PASS
	Ant1	2462	9.760	2457.240	2467.000	≥0.5	PASS
	Ant2	2462	10.000	2457.000	2467.000	≥0.5	PASS
11G	Ant1	2412	14.960	2404.520	2419.480	≥0.5	PASS
	Ant2	2412	15.040	2404.480	2419.520	≥0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	≥0.5	PASS
	Ant2	2437	13.840	2430.680	2444.520	≥0.5	PASS
	Ant1	2462	11.040	2455.360	2466.400	≥0.5	PASS
	Ant2	2462	14.360	2454.520	2468.880	≥0.5	PASS
11N20SISO	Ant1	2412	15.400	2404.120	2419.520	≥0.5	PASS
	Ant2	2412	14.160	2405.360	2419.520	≥0.5	PASS
	Ant1	2437	15.000	2429.520	2444.520	≥0.5	PASS
	Ant2	2437	13.760	2430.760	2444.520	≥0.5	PASS
	Ant1	2462	15.240	2454.280	2469.520	≥0.5	PASS
	Ant2	2462	15.080	2454.480	2469.560	≥0.5	PASS

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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

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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



11N20SISO\_Ant1\_2412

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11N20SISO\_Ant2\_2412



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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	14.766	2404.6110	2419.3770	---	---
	Ant2	2412	14.269	2404.8815	2419.1505	---	---
	Ant1	2437	14.777	2429.5808	2444.3578	---	---
	Ant2	2437	14.346	2429.8257	2444.1717	---	---
	Ant1	2462	14.841	2454.5432	2469.3842	---	---
	Ant2	2462	14.274	2454.8673	2469.1413	---	---
11G	Ant1	2412	16.777	2403.5866	2420.3636	---	---
	Ant2	2412	16.696	2403.6351	2420.3311	---	---
	Ant1	2437	16.849	2428.5399	2445.3889	---	---
	Ant2	2437	16.837	2428.5855	2445.4225	---	---
	Ant1	2462	16.856	2453.5267	2470.3827	---	---
	Ant2	2462	16.722	2453.6055	2470.3275	---	---
11N20SISO	Ant1	2412	17.722	2403.1417	2420.8637	---	---
	Ant2	2412	17.710	2403.1750	2420.8850	---	---
	Ant1	2437	17.774	2428.1288	2445.9028	---	---
	Ant2	2437	17.731	2428.1311	2445.8621	---	---
	Ant1	2462	17.759	2453.1070	2470.8660	---	---
	Ant2	2462	17.691	2453.1823	2470.8733	---	---



## Test Graphs



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11B\_Ant2\_2437



11B\_Ant1\_2462

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11B\_Ant2\_2462



11G\_Ant1\_2412

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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



11N20SISO\_Ant1\_2412

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## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	21.29	≤30.00
	Ant2	2412	19.60	≤30.00
	Ant1	2437	21.20	≤30.00
	Ant2	2437	20.79	≤30.00
	Ant1	2462	21.53	≤30.00
	Ant2	2462	20.24	≤30.00
11G	Ant1	2412	20.52	≤30.00
	Ant2	2412	19.45	≤30.00
	Ant1	2437	20.80	≤30.00
	Ant2	2437	19.72	≤30.00
	Ant1	2462	20.75	≤30.00
	Ant2	2462	19.57	≤30.00
11N20SISO	Ant1	2412	20.52	≤30.00
	Ant2	2412	19.52	≤30.00
	Ant1	2437	20.73	≤30.00
	Ant2	2437	19.74	≤30.00
	Ant1	2462	20.68	≤30.00
	Ant2	2462	19.49	≤30.00



## Appendix D: Maximum power spectral density

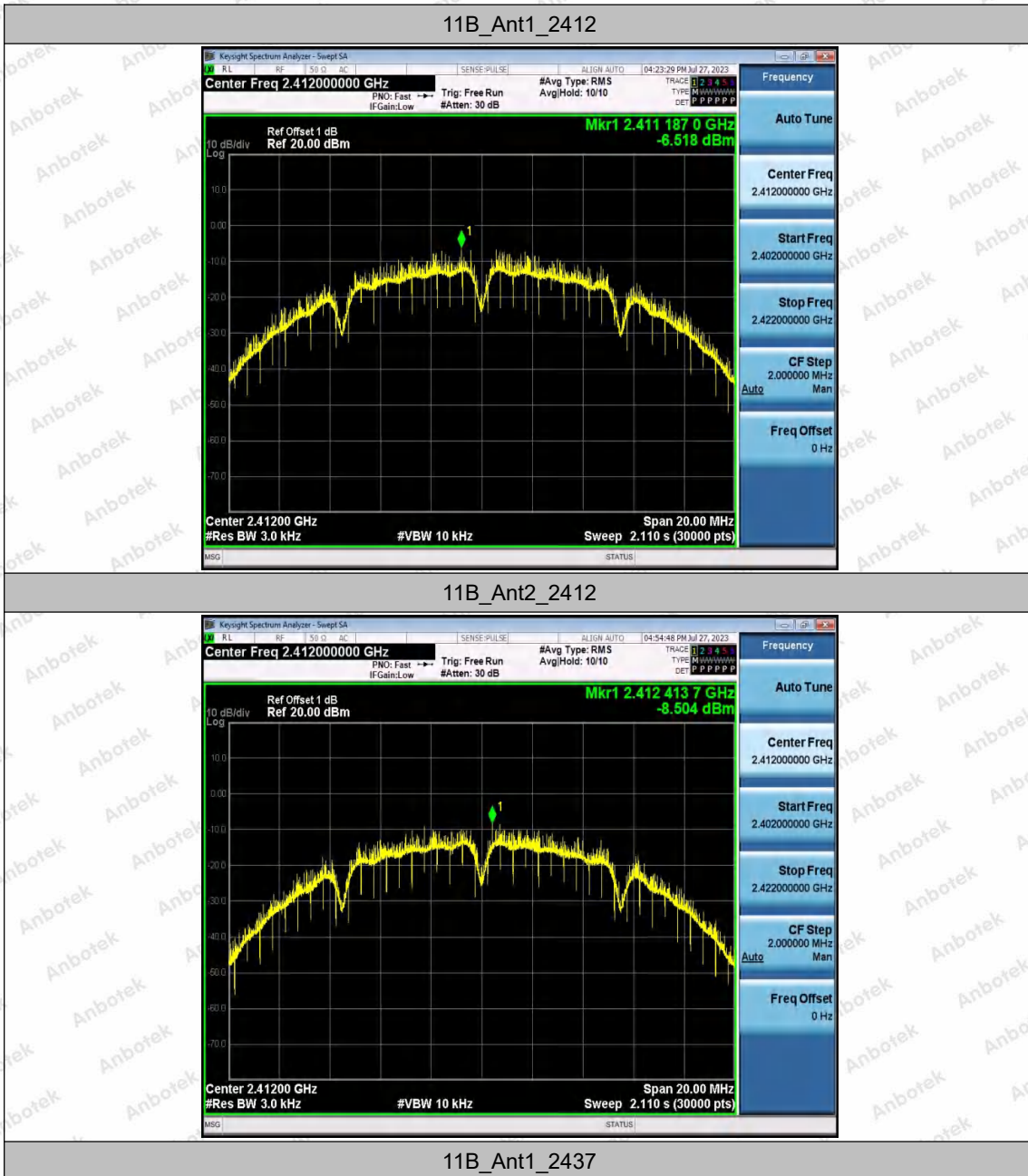
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.52	≤8.00	PASS
	Ant2	2412	-8.5	≤8.00	PASS
	Ant1	2437	-4.89	≤8.00	PASS
	Ant2	2437	2.53	≤8.00	PASS
	Ant1	2462	-6.78	≤8.00	PASS
	Ant2	2462	5.7	≤8.00	PASS
11G	Ant1	2412	-12.41	≤8.00	PASS
	Ant2	2412	-12.59	≤8.00	PASS
	Ant1	2437	-11.64	≤8.00	PASS
	Ant2	2437	-13.48	≤8.00	PASS
	Ant1	2462	-12.34	≤8.00	PASS
	Ant2	2462	-13.86	≤8.00	PASS
11N20SISO	Ant1	2412	-10.84	≤8.00	PASS
	Ant2	2412	-13.03	≤8.00	PASS
	Ant1	2437	-12.12	≤8.00	PASS
	Ant2	2437	-11.86	≤8.00	PASS
	Ant1	2462	-12.38	≤8.00	PASS
	Ant2	2462	-13.46	≤8.00	PASS





## Test Graphs



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11B\_Ant2\_2462



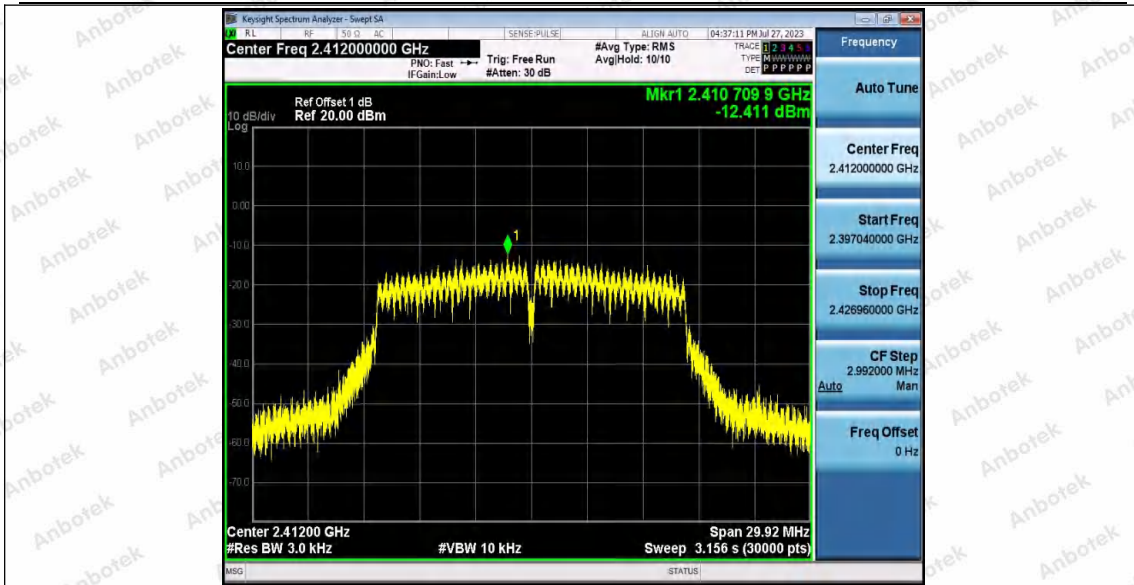
11G\_Ant1\_2412

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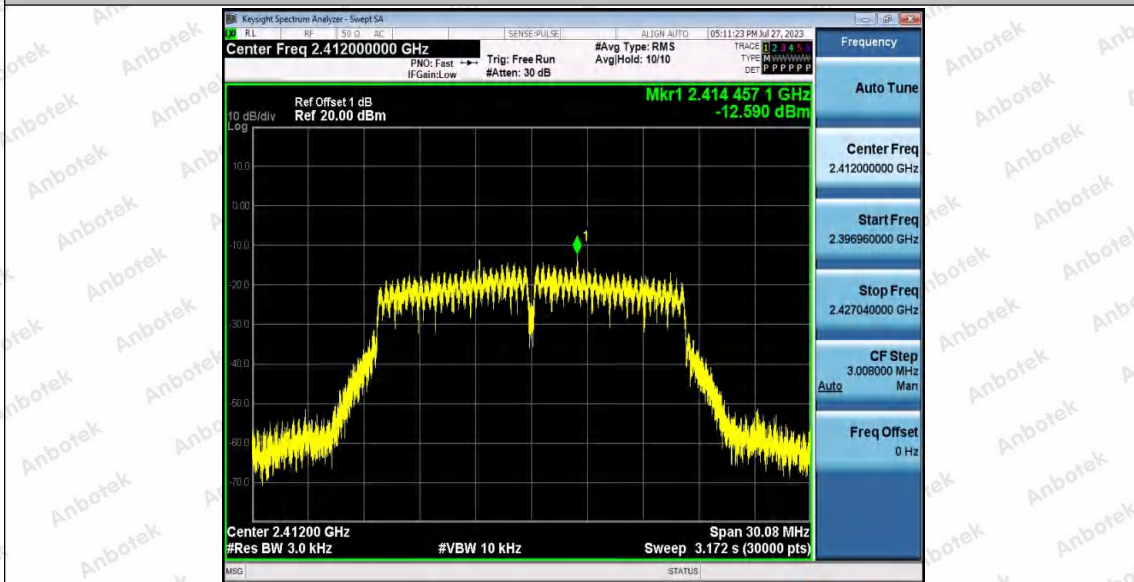
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11G\_Ant2\_2412



11G\_Ant1\_2437

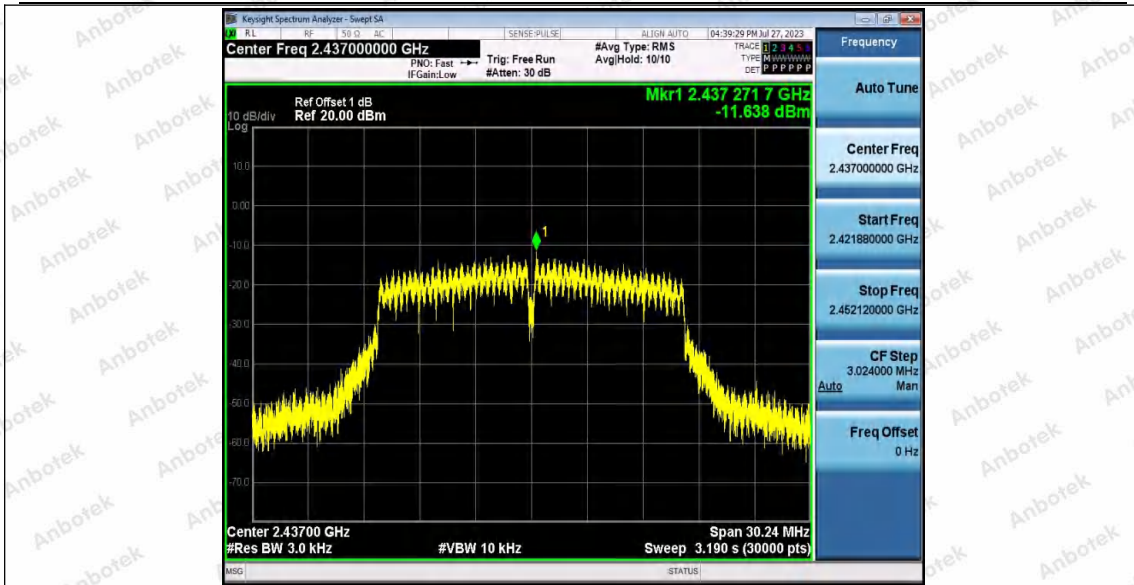
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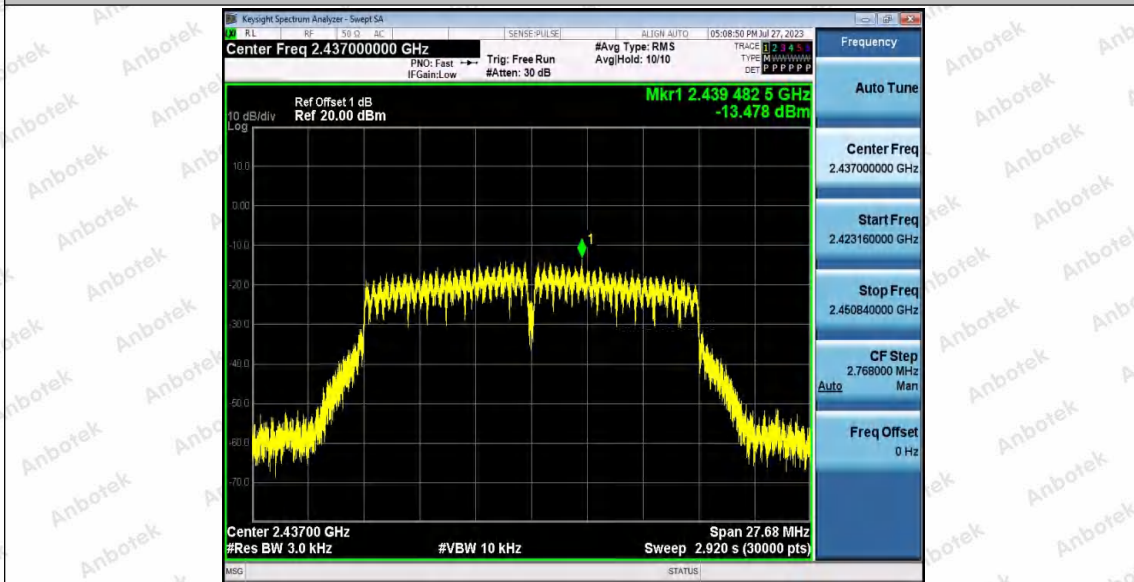
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11G\_Ant2\_2437



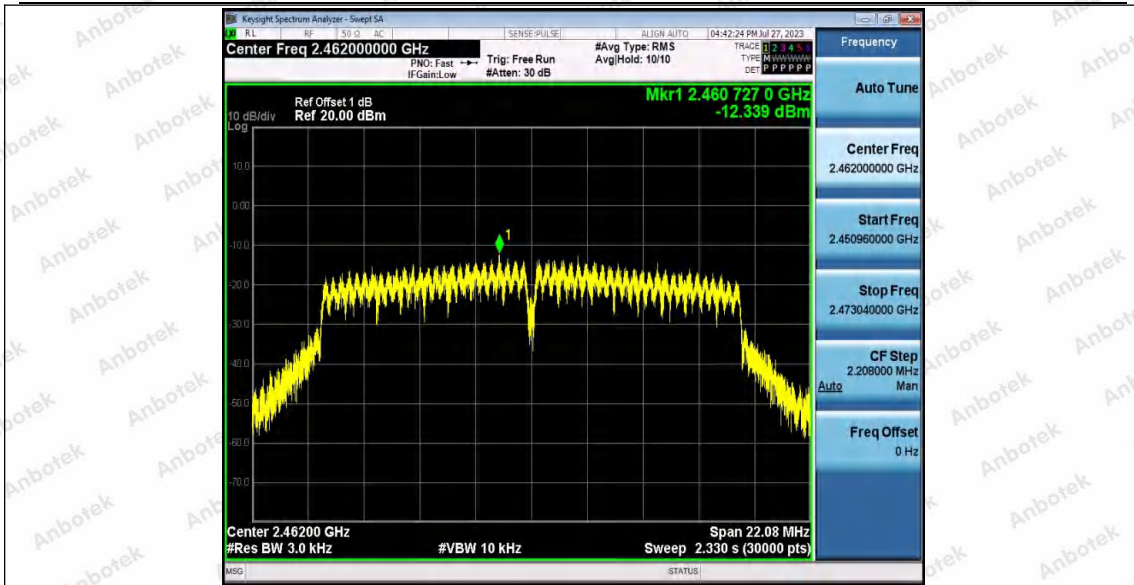
11G\_Ant1\_2462

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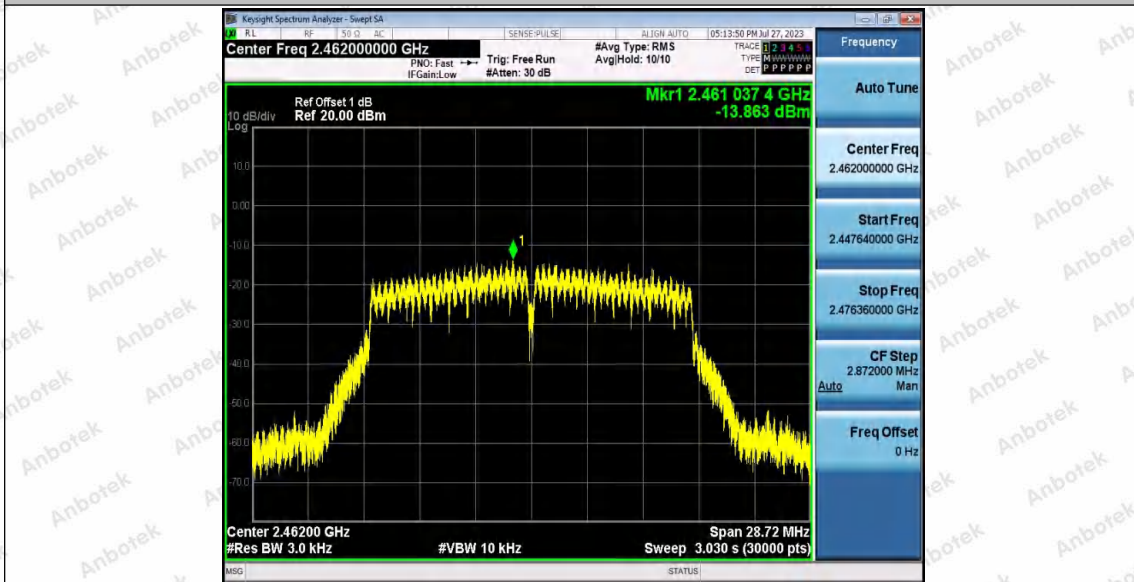
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11G\_Ant2\_2462



11N20SISO\_Ant1\_2412

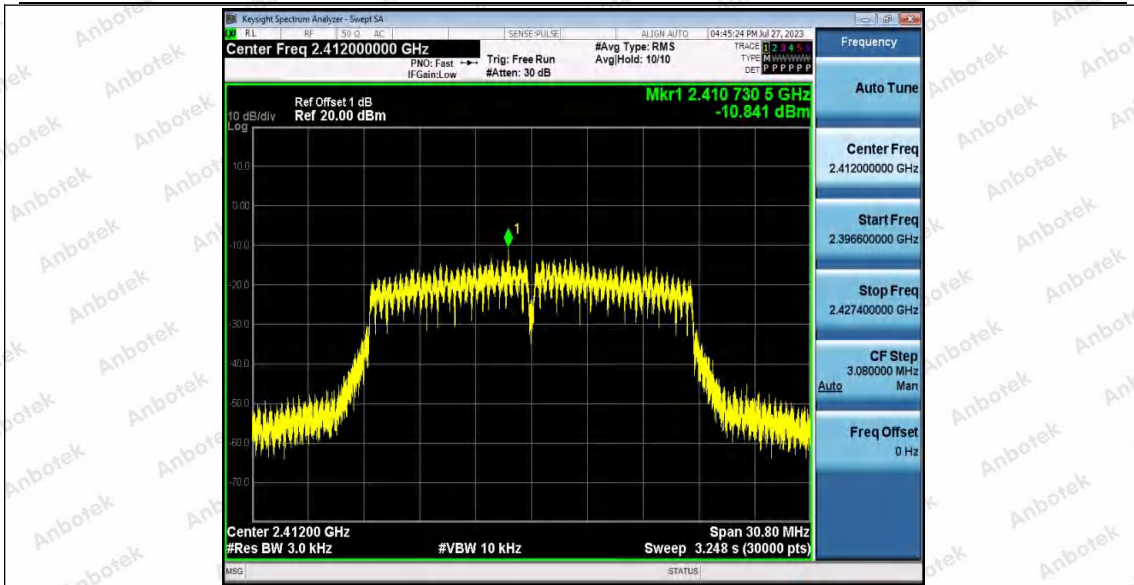
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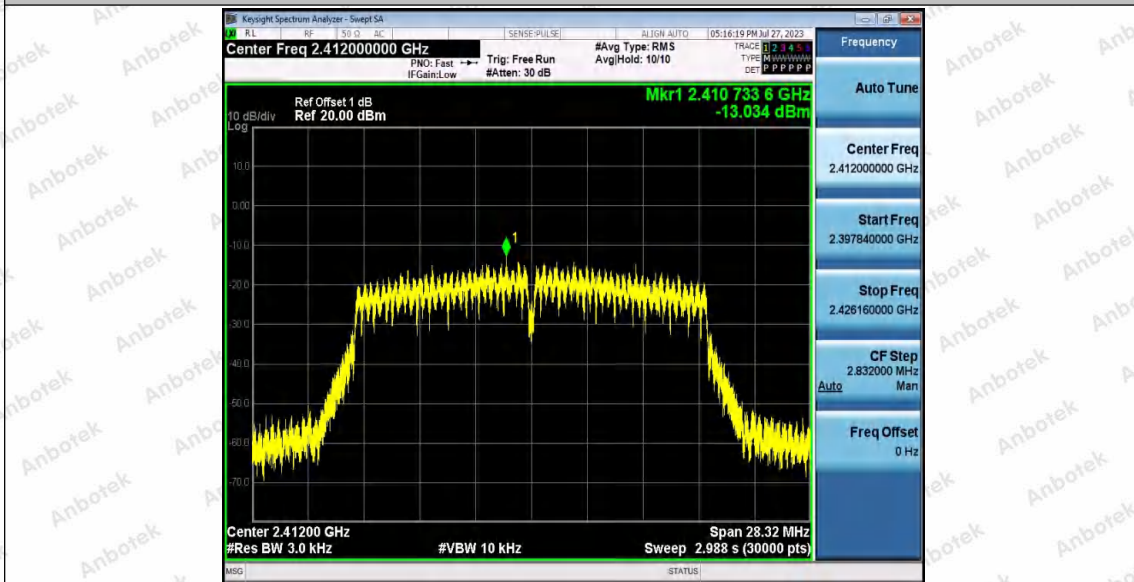
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11N20SISO\_Ant2\_2412



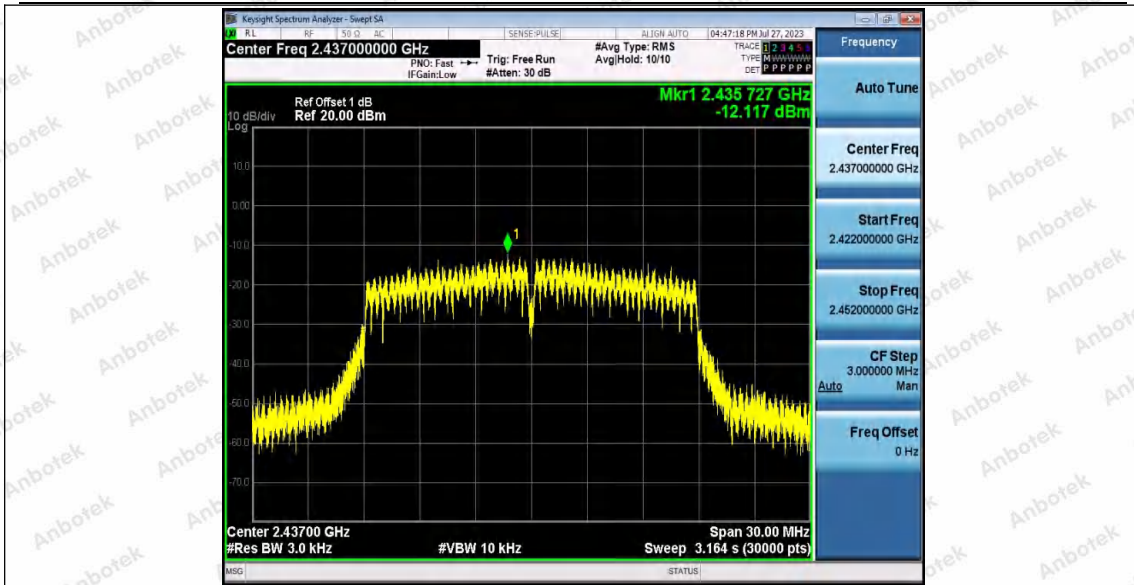
11N20SISO\_Ant1\_2437

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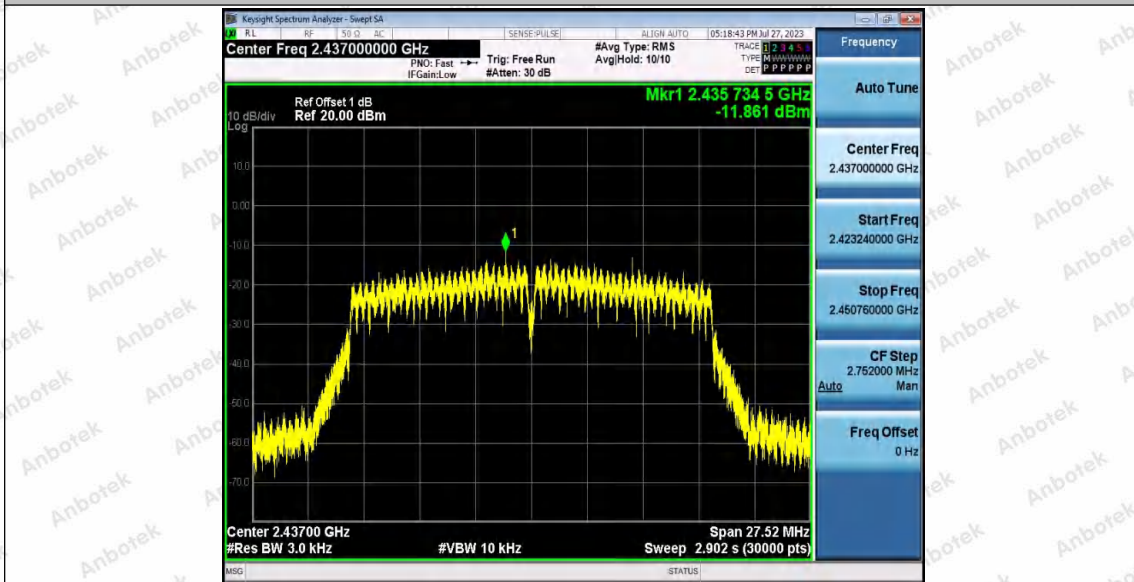
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11N20SISO\_Ant2\_2437



11N20SISO\_Ant1\_2462

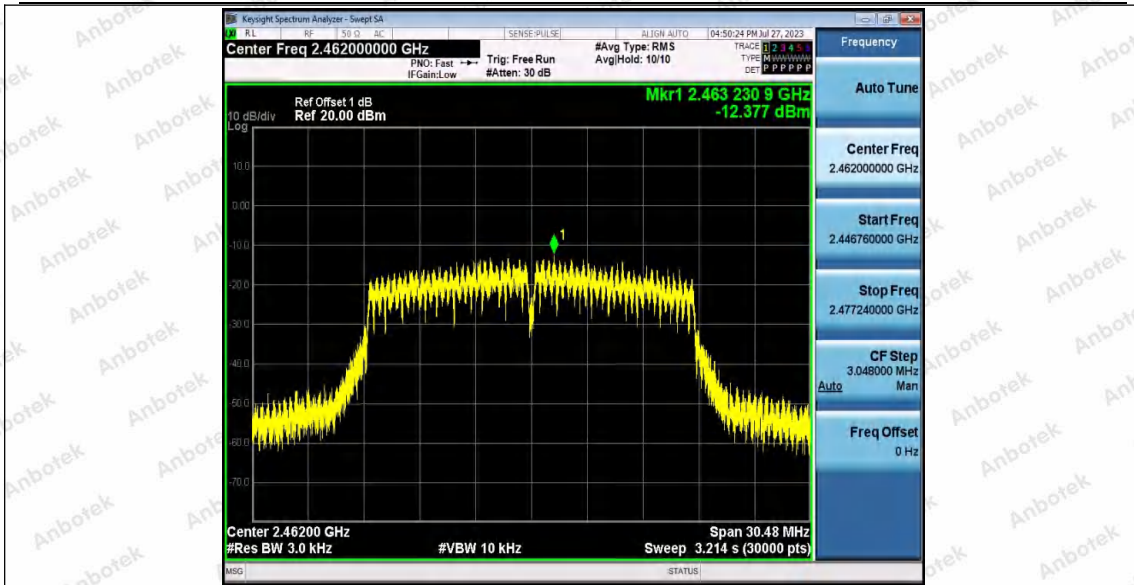
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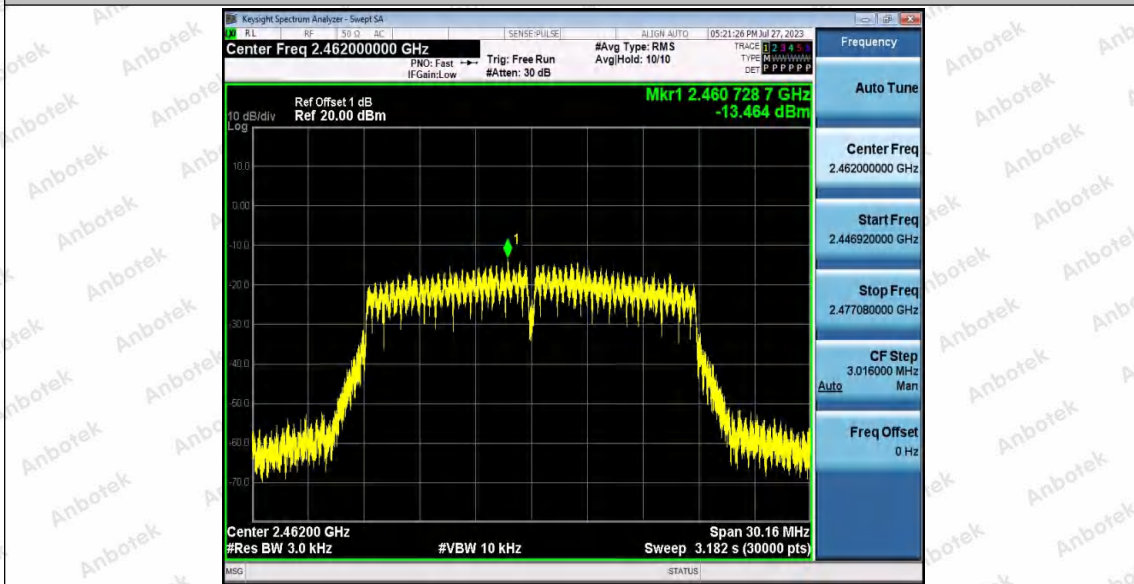
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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	Reference Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	8.59	-26.55	≤-11.41	PASS
	Ant2	Low	2412	6.99	-38.48	≤-13.01	PASS
	Ant1	High	2462	8.75	-48.09	≤-11.25	PASS
	Ant2	High	2462	7.70	-47.72	≤-12.3	PASS
11G	Ant1	Low	2412	3.07	-30.47	≤-16.93	PASS
	Ant2	Low	2412	1.54	-34.9	≤-18.47	PASS
	Ant1	High	2462	2.68	-48.26	≤-17.32	PASS
	Ant2	High	2462	2.13	-50.32	≤-17.87	PASS
11N20SISO	Ant1	Low	2412	2.81	-31.88	≤-17.19	PASS
	Ant2	Low	2412	1.41	-38.51	≤-18.59	PASS
	Ant1	High	2462	3.61	-45.47	≤-16.39	PASS
	Ant2	High	2462	2.05	-50.5	≤-17.95	PASS





## Test Graphs



11B\_Ant1\_High\_2462

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11B\_Ant2\_High\_2462



11G\_Ant1\_Low\_2412

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11G\_Ant2\_Low\_2412



11G\_Ant1\_High\_2462

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11G\_Ant2\_High\_2462



11N20SISO\_Ant1\_Low\_2412

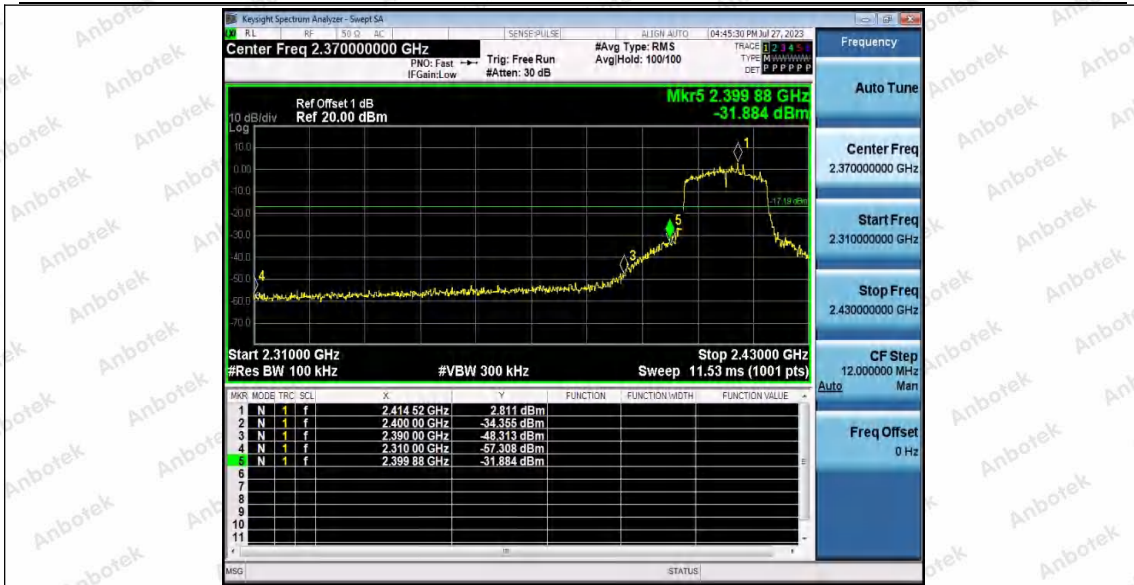
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11N20SISO\_Ant2\_Low\_2412



11N20SISO\_Ant1\_High\_2462

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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	8.37	8.37	---	PASS
			30~1000	8.37	-60.73	≤-11.63	PASS
			1000~26500	8.37	-35.67	≤-11.63	PASS
	Ant2	2412	Reference	5.76	5.76	---	PASS
			30~1000	5.76	-57.04	≤-14.24	PASS
			1000~26500	5.76	-33.61	≤-14.24	PASS
	Ant1	2437	Reference	7.94	7.94	---	PASS
			30~1000	7.94	-60.46	≤-12.06	PASS
			1000~26500	7.94	-37.27	≤-12.06	PASS
	Ant2	2437	Reference	8.05	8.05	---	PASS
			30~1000	8.05	-56.47	≤-11.95	PASS
			1000~26500	8.05	-30.79	≤-11.95	PASS
Ant1	2462	Reference	8.53	8.53	---	PASS	
		30~1000	8.53	-60.39	≤-11.47	PASS	
		1000~26500	8.53	-37.14	≤-11.47	PASS	
Ant2	2462	Reference	7.09	7.09	---	PASS	
		30~1000	7.09	-56.95	≤-12.91	PASS	
		1000~26500	7.09	-31.25	≤-12.91	PASS	
11G	Ant1	2412	Reference	0.00	0.00	---	PASS
			30~1000	0.00	-58.09	≤-20	PASS
			1000~26500	0.00	-50.6	≤-20	PASS
	Ant2	2412	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-57.75	≤-21.84	PASS
			1000~26500	-1.84	-48.29	≤-21.84	PASS
	Ant1	2437	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-56.32	≤-19.23	PASS
			1000~26500	0.77	-50.98	≤-19.23	PASS
	Ant2	2437	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-58.08	≤-20.38	PASS
			1000~26500	-0.38	-45.88	≤-20.38	PASS
Ant1	2462	Reference	2.28	2.28	---	PASS	
		30~1000	2.28	-57.58	≤-17.72	PASS	
		1000~26500	2.28	-53.46	≤-17.72	PASS	
Ant2	2462	Reference	-1.26	-1.26	---	PASS	
		30~1000	-1.26	-57.97	≤-21.26	PASS	

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11N20SISO	Ant1	2412	1000~26500	-1.26	-45.79	≤-21.26	PASS	
			Reference	-0.35	-0.35	---	PASS	
			30~1000	-0.35	-58.2	≤-20.35	PASS	
	Ant2	2412	1000~26500	-0.35	-53.1	≤-20.35	PASS	
			Reference	-0.88	-0.88	---	PASS	
			30~1000	-0.88	-57.92	≤-20.88	PASS	
	Ant1	2437	1000~26500	-0.88	-47.62	≤-20.88	PASS	
			Reference	0.47	0.47	---	PASS	
			30~1000	0.47	-57.18	≤-19.53	PASS	
	Ant2	2437	1000~26500	0.47	-51.41	≤-19.53	PASS	
			Reference	-1.50	-1.50	---	PASS	
			30~1000	-1.50	-58.28	≤-21.5	PASS	
	Ant1	2462	1000~26500	-1.50	-47.69	≤-21.5	PASS	
			Reference	0.28	0.28	---	PASS	
			30~1000	0.28	-57.11	≤-19.72	PASS	
	Ant2	2462	1000~26500	0.28	-52.49	≤-19.72	PASS	
			Reference	-1.64	-1.64	---	PASS	
			30~1000	-1.64	-57.89	≤-21.64	PASS	
				1000~26500	-1.64	-43.45	≤-21.64	PASS

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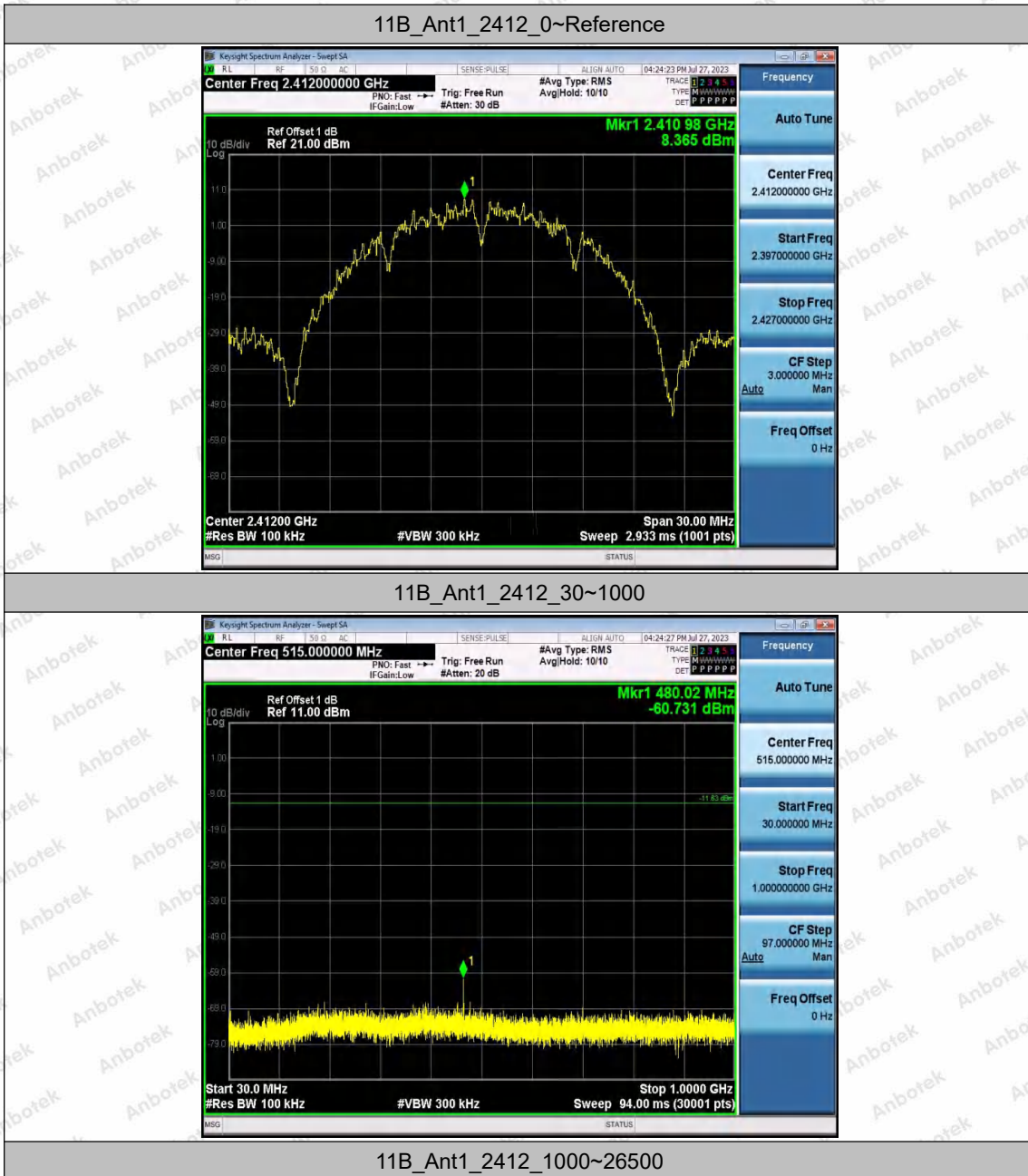


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## Test Graphs



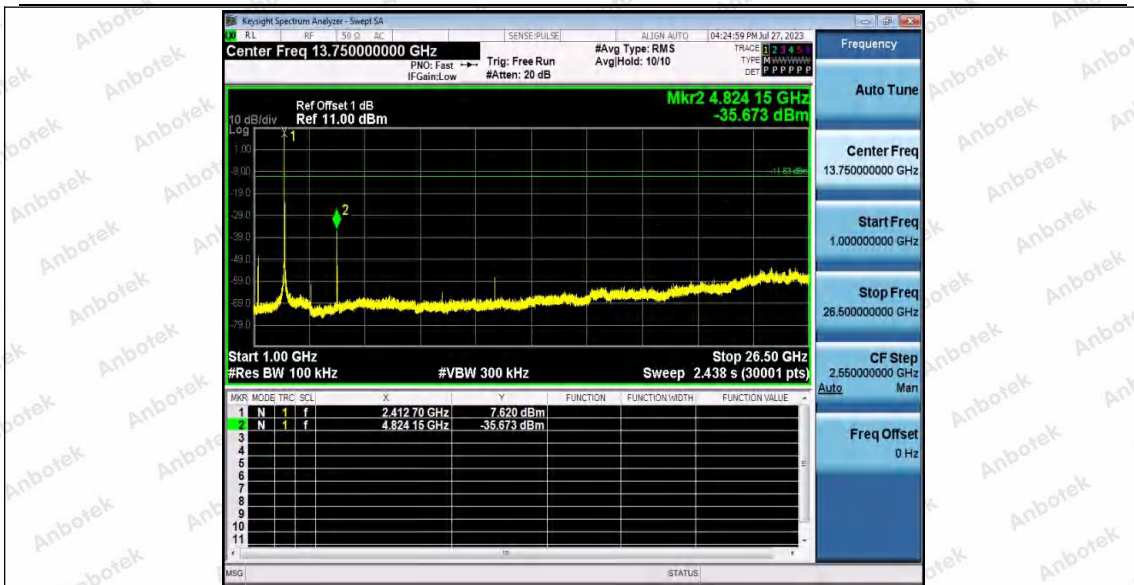
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11B\_Ant2\_2412\_0~Reference



11B\_Ant2\_2412\_30~1000

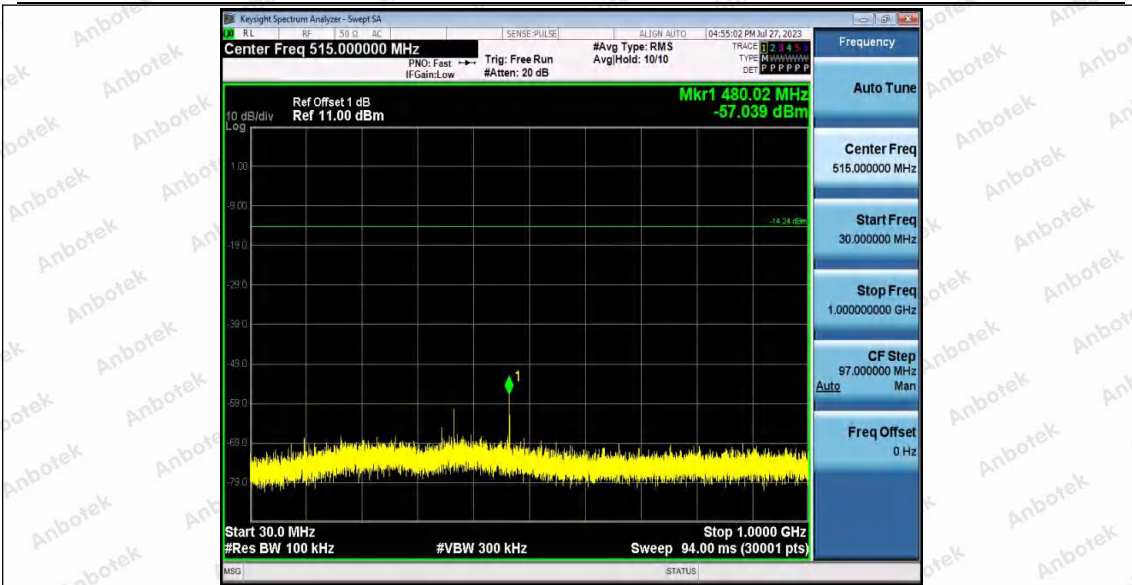
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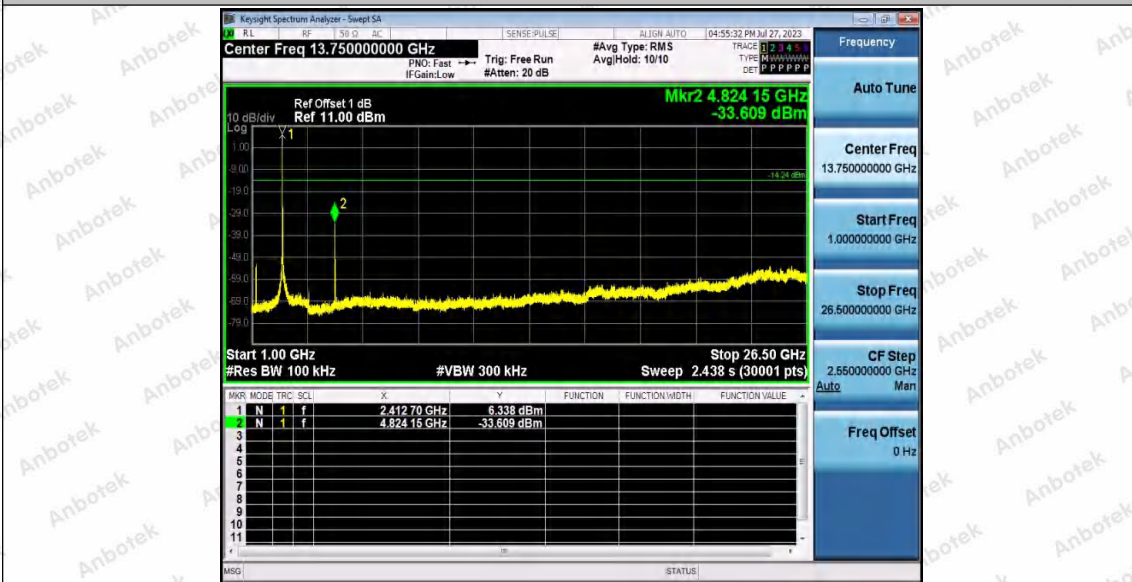
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11B\_Ant2\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference

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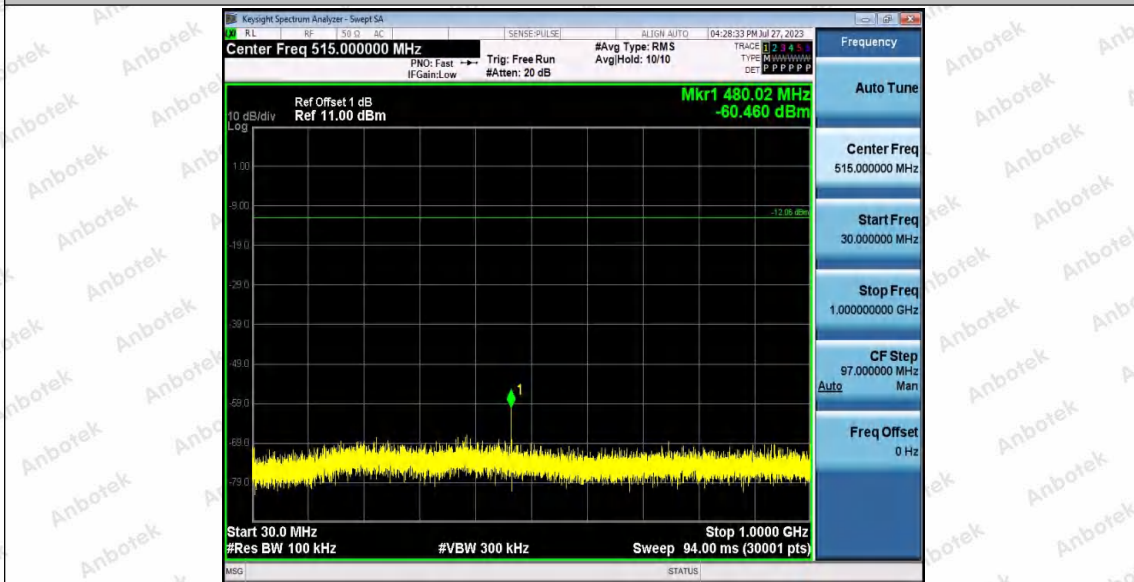
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11B\_Ant1\_2437\_30~1000



11B\_Ant1\_2437\_1000~26500

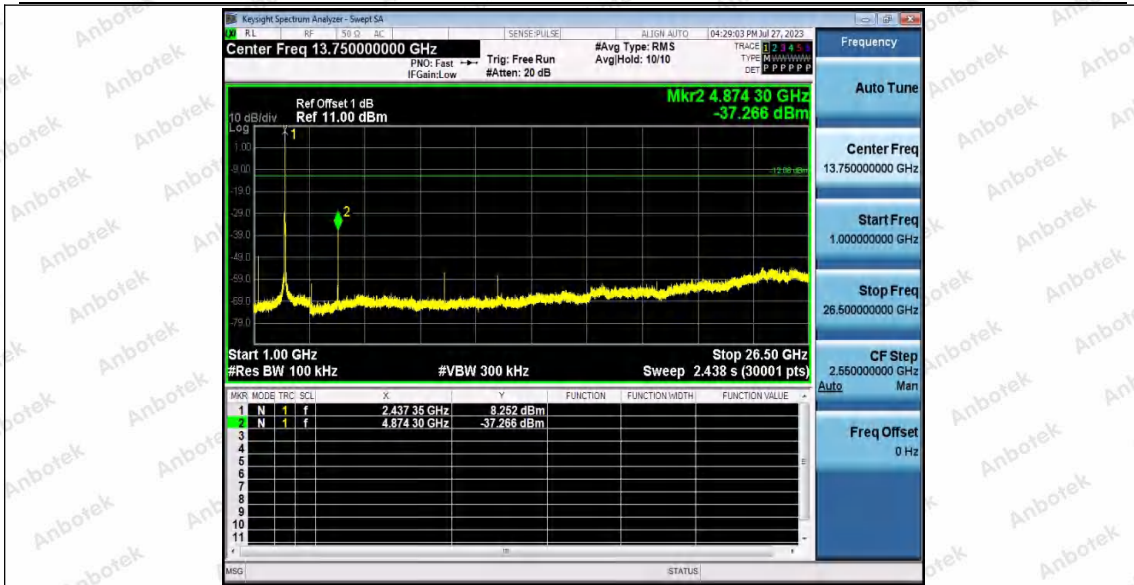
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11B\_Ant2\_2437\_0~Reference



11B\_Ant2\_2437\_30~1000

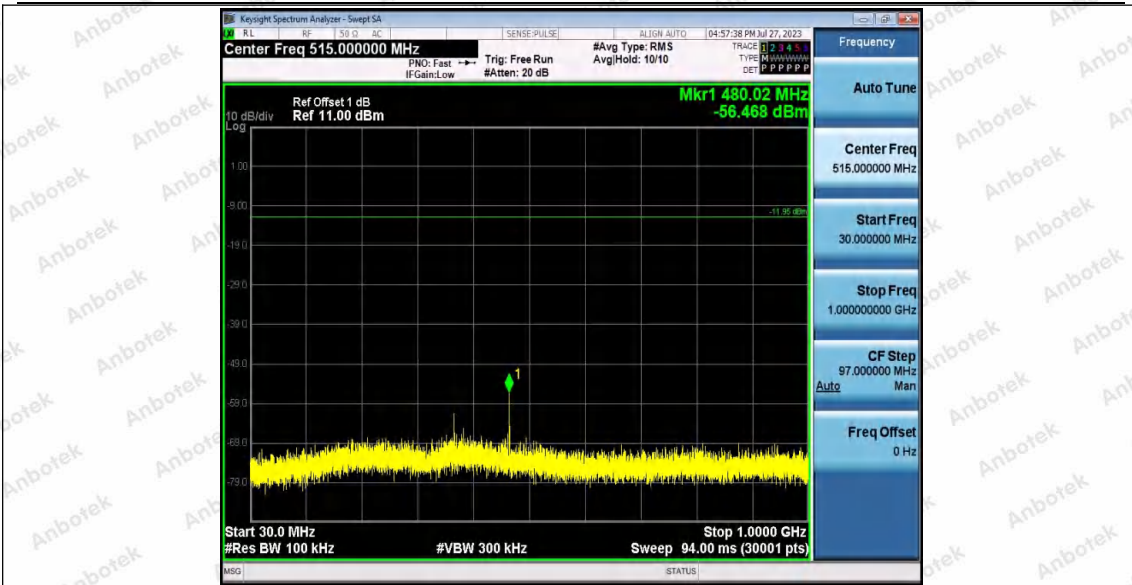
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11B\_Ant2\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference

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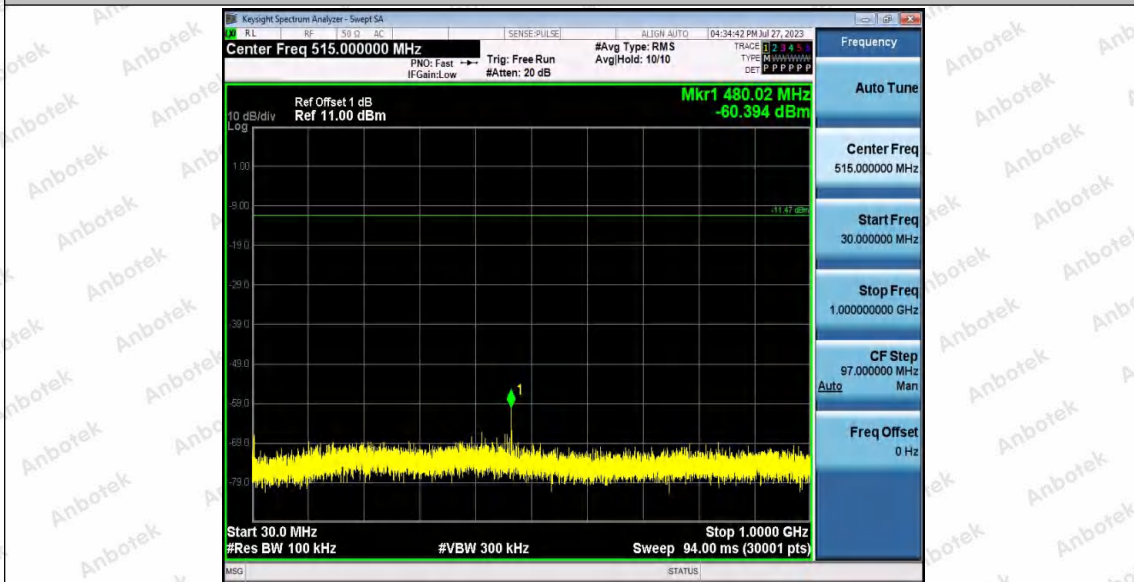
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11B\_Ant1\_2462\_30~1000



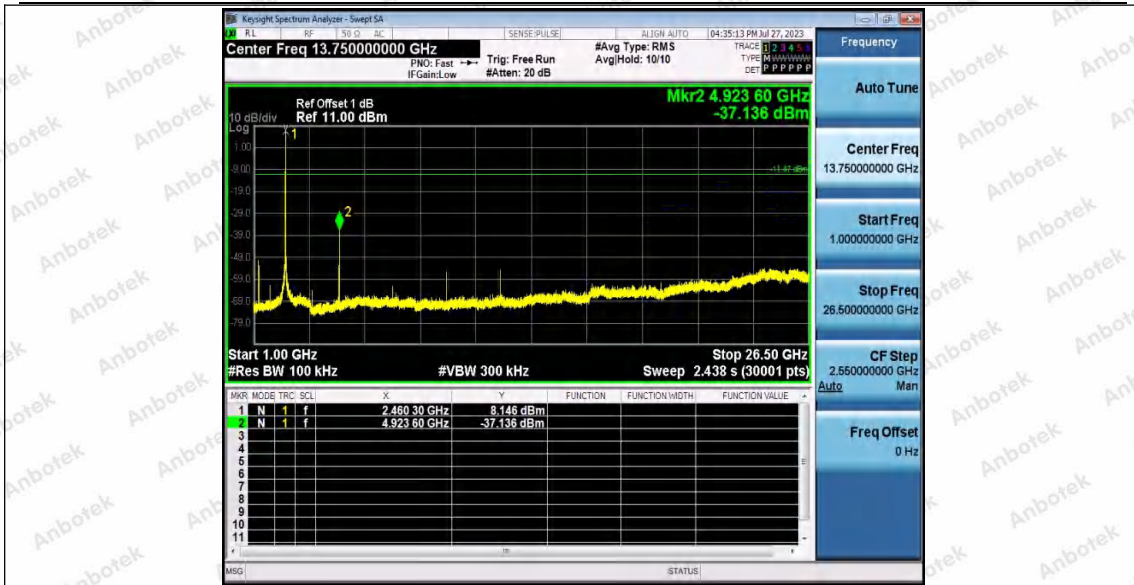
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11B\_Ant2\_2462\_0~Reference



11B\_Ant2\_2462\_30~1000

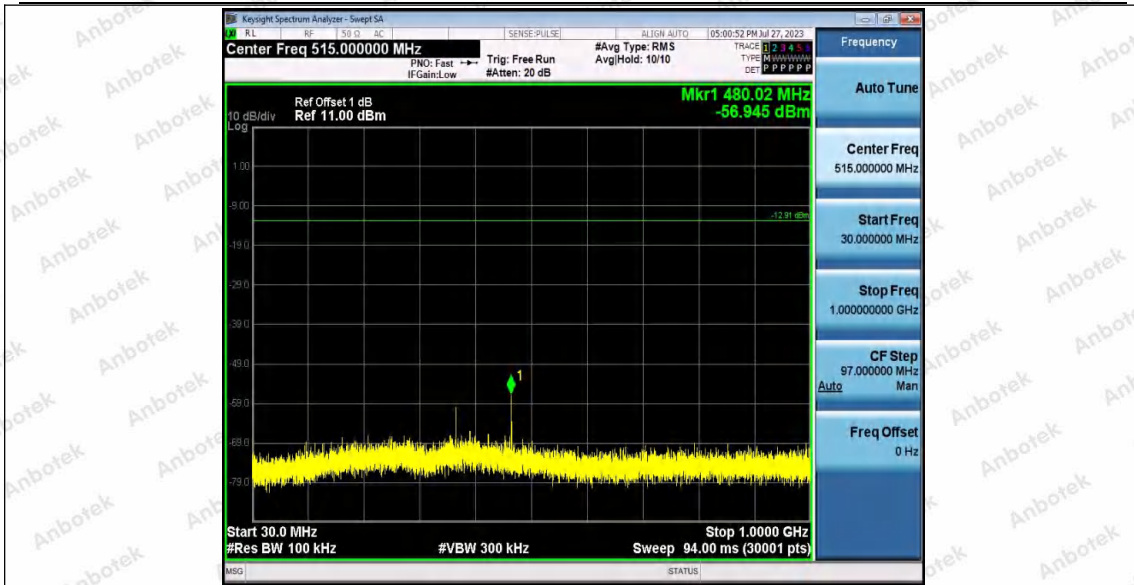
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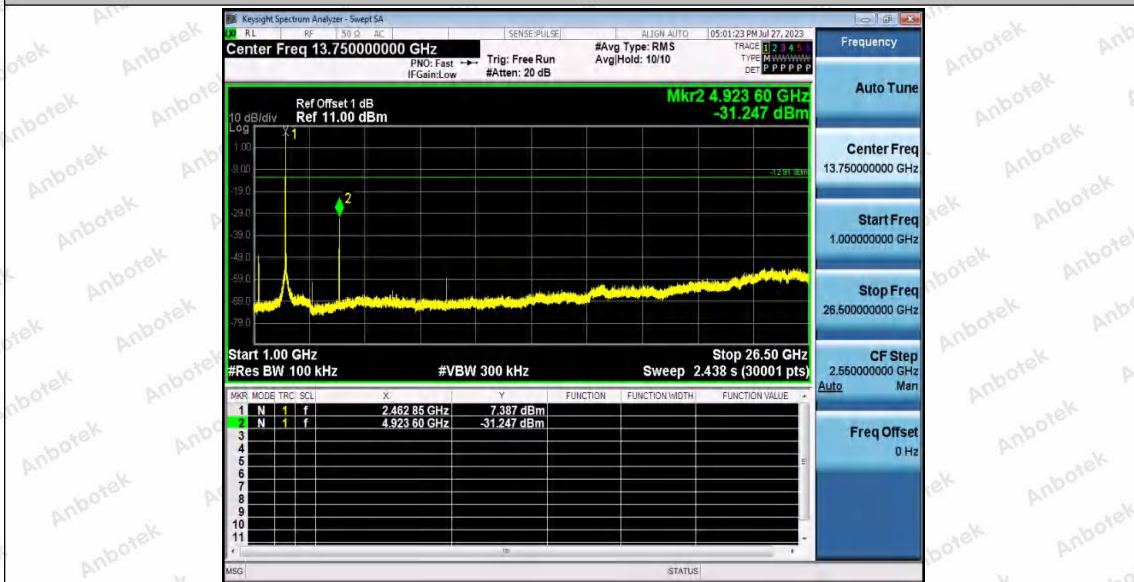
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11B\_Ant2\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference

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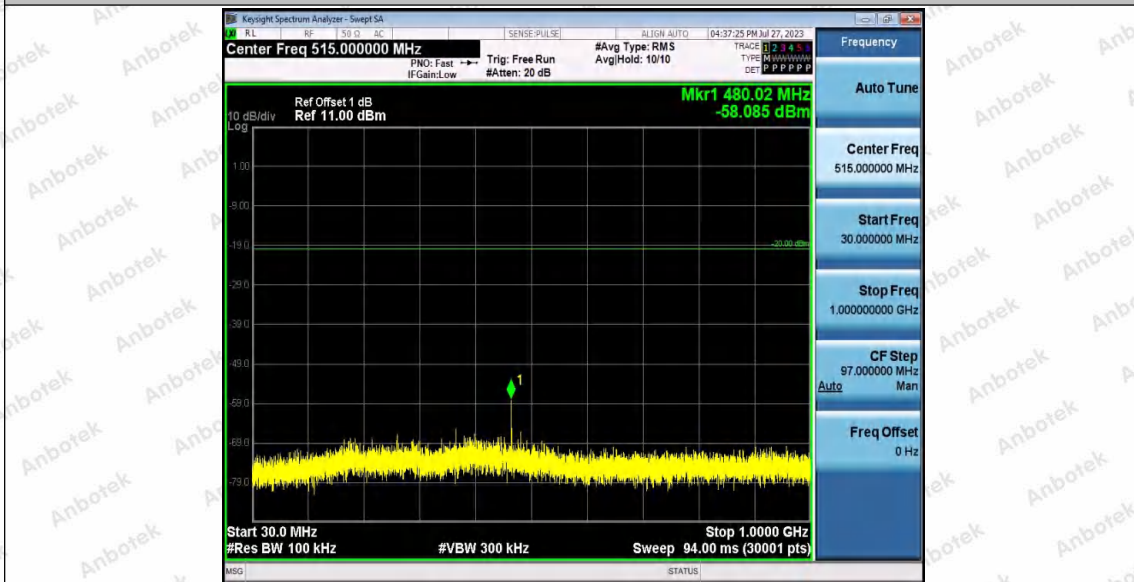
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11G\_Ant1\_2412\_30~1000



11G\_Ant1\_2412\_1000~26500

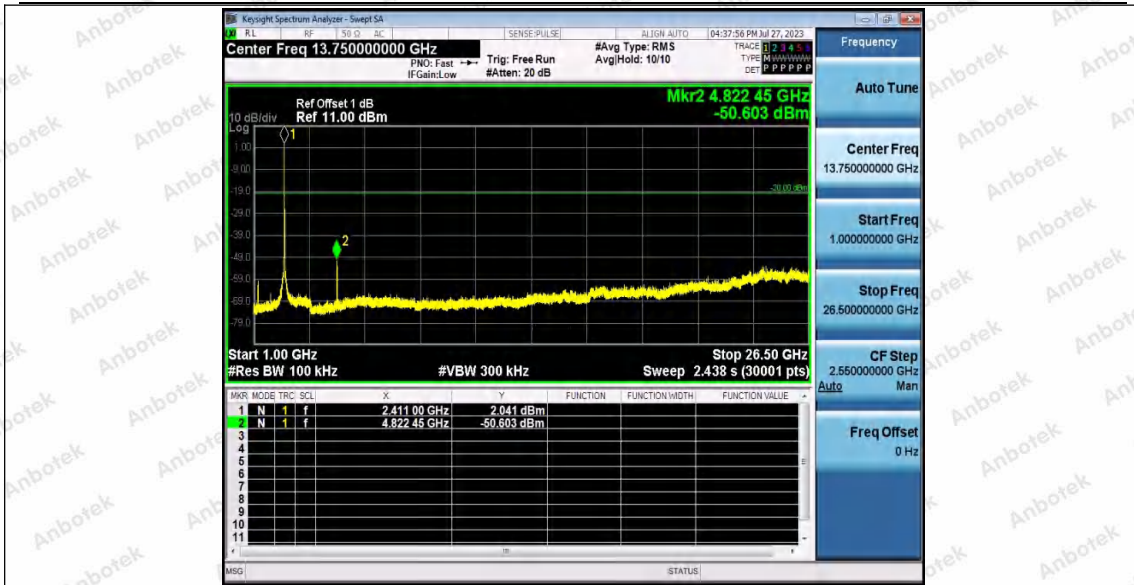
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11G\_Ant2\_2412\_0~Reference



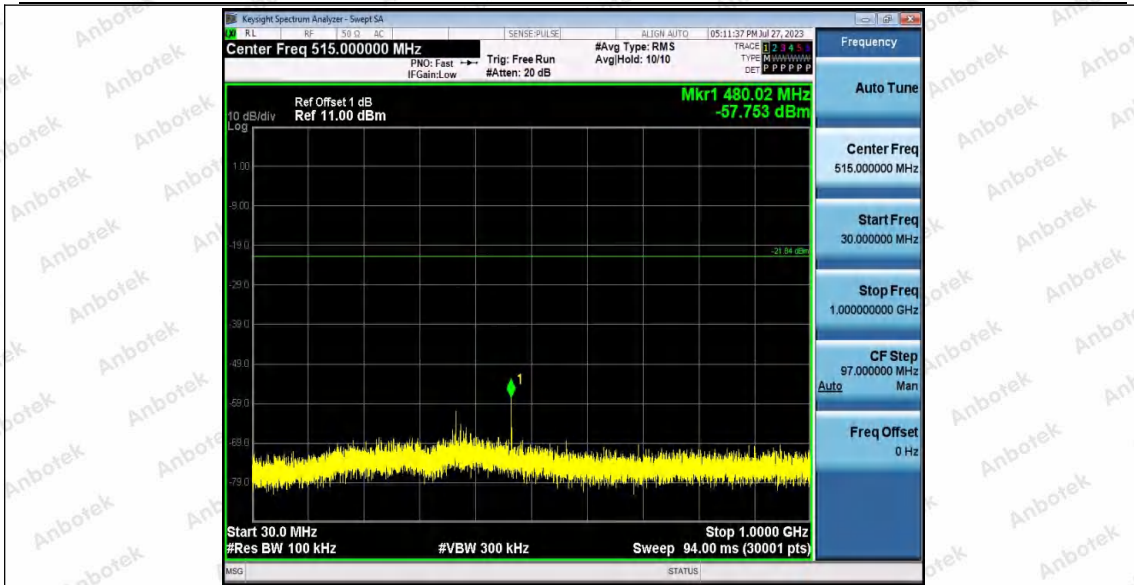
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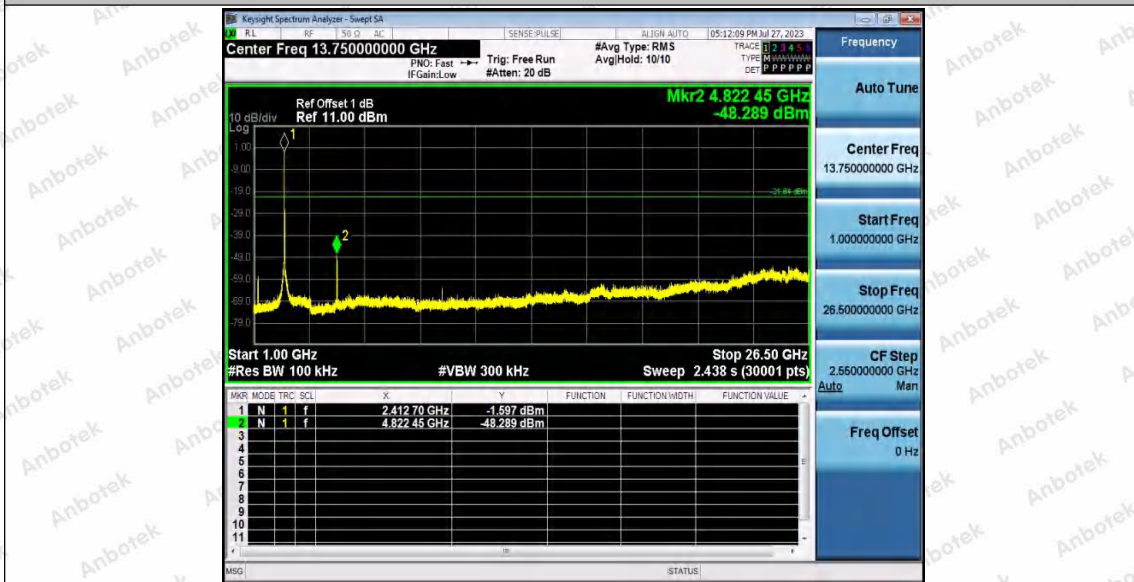
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11G\_Ant2\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference

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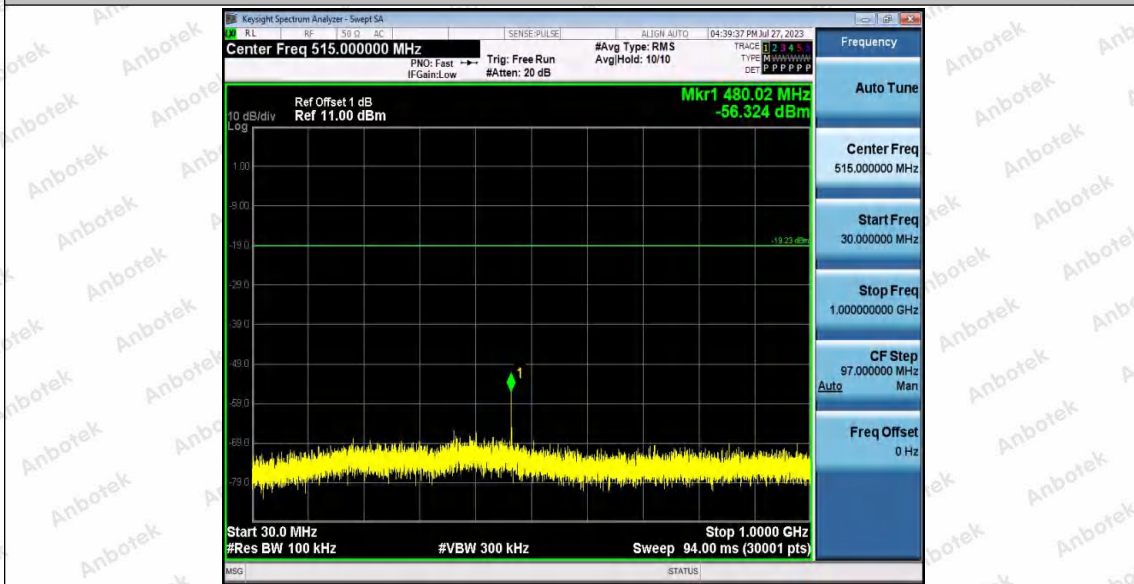
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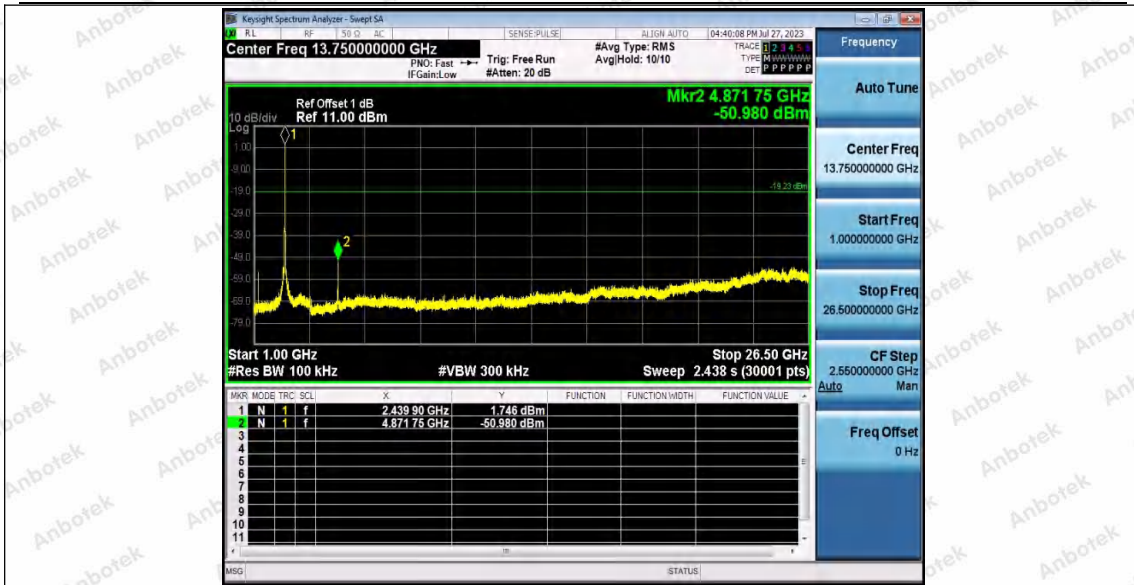
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11G\_Ant2\_2437\_0~Reference



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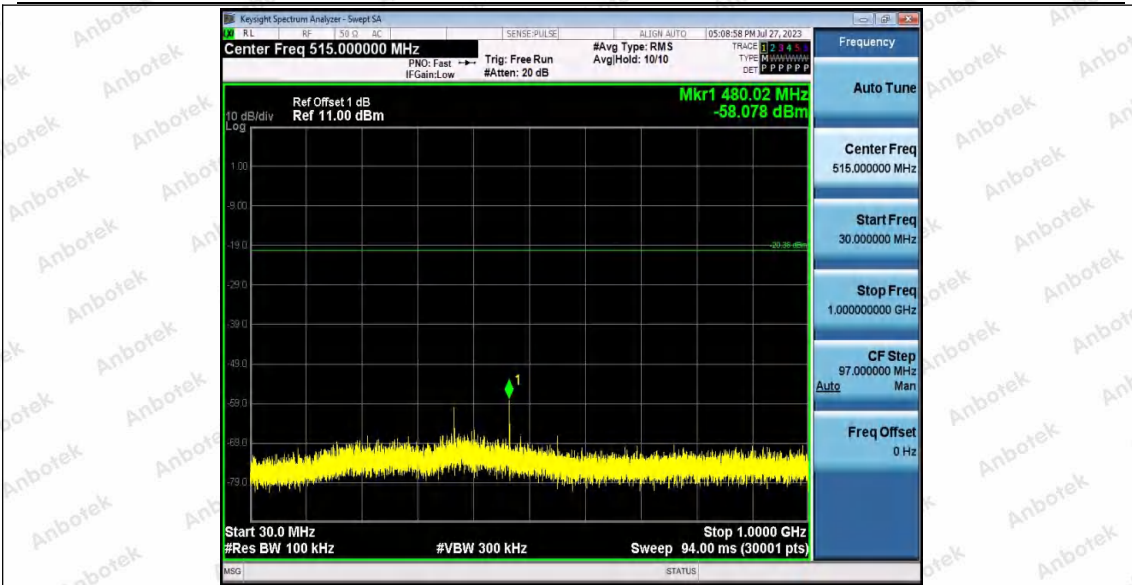
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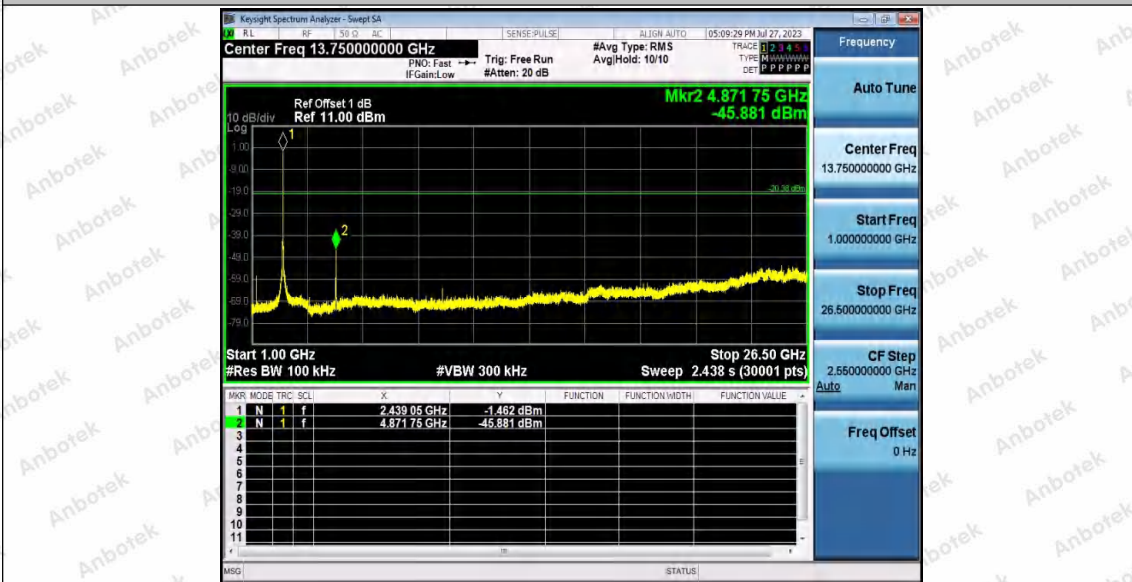
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11G\_Ant2\_2437\_1000~26500



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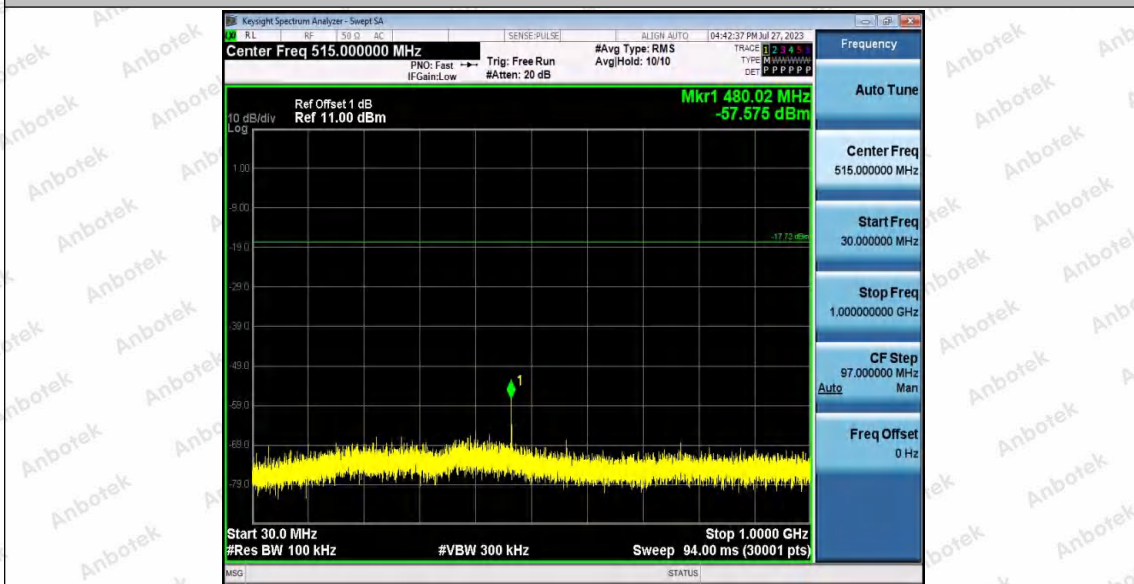
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11G\_Ant1\_2462\_30~1000



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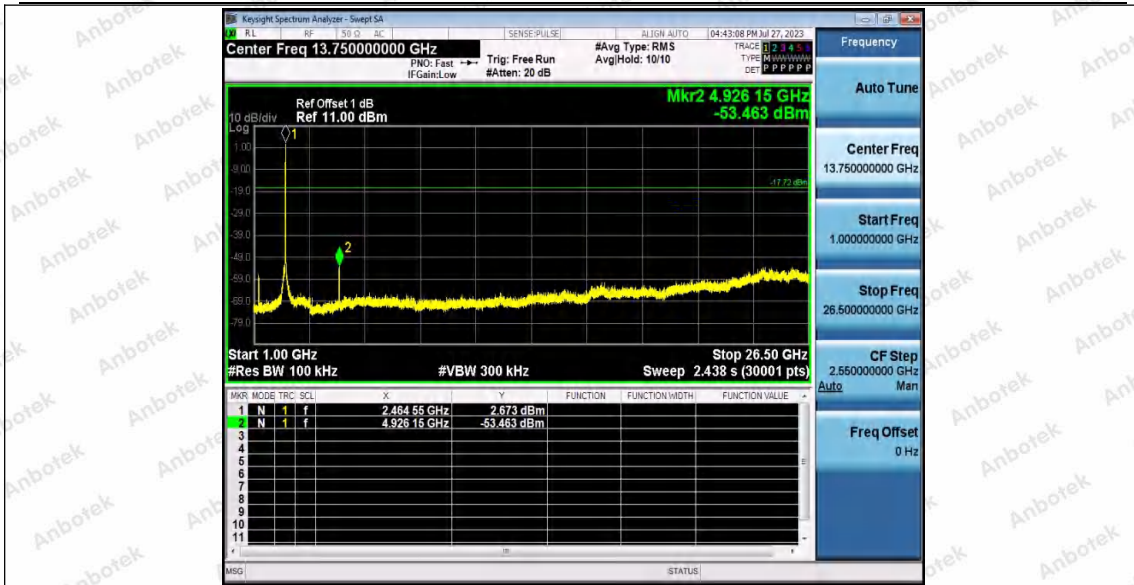
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11G\_Ant2\_2462\_0~Reference



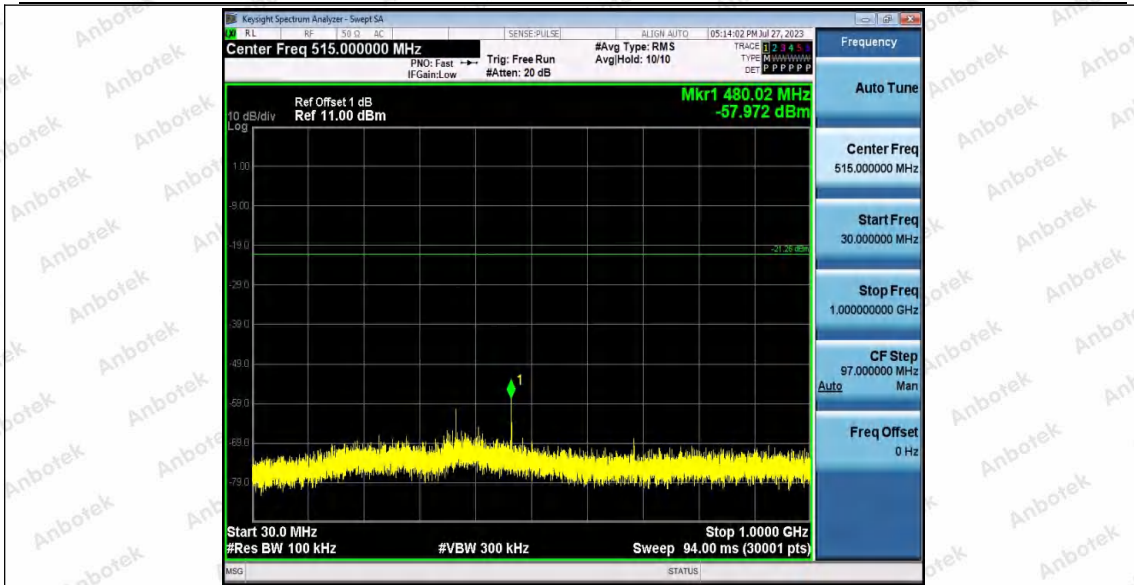
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11G\_Ant2\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference

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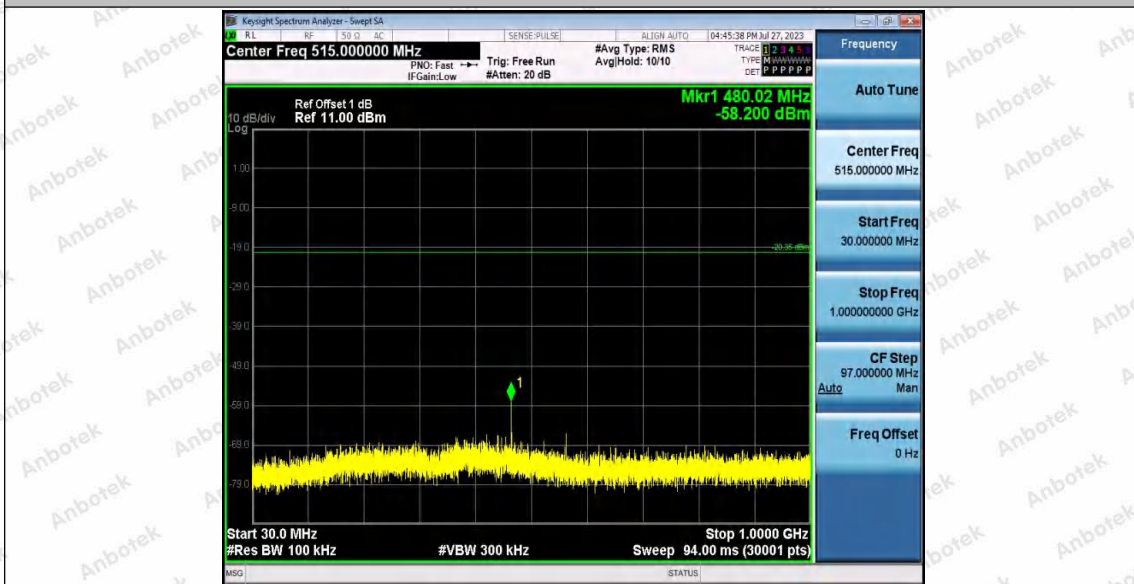
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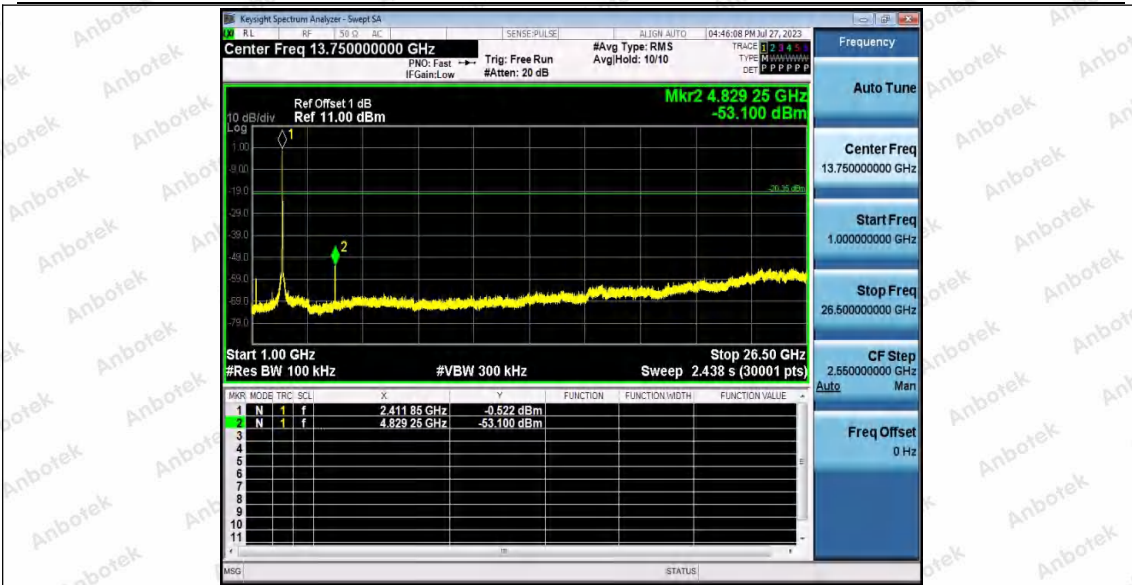
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11N20SISO\_Ant2\_2412\_0~Reference



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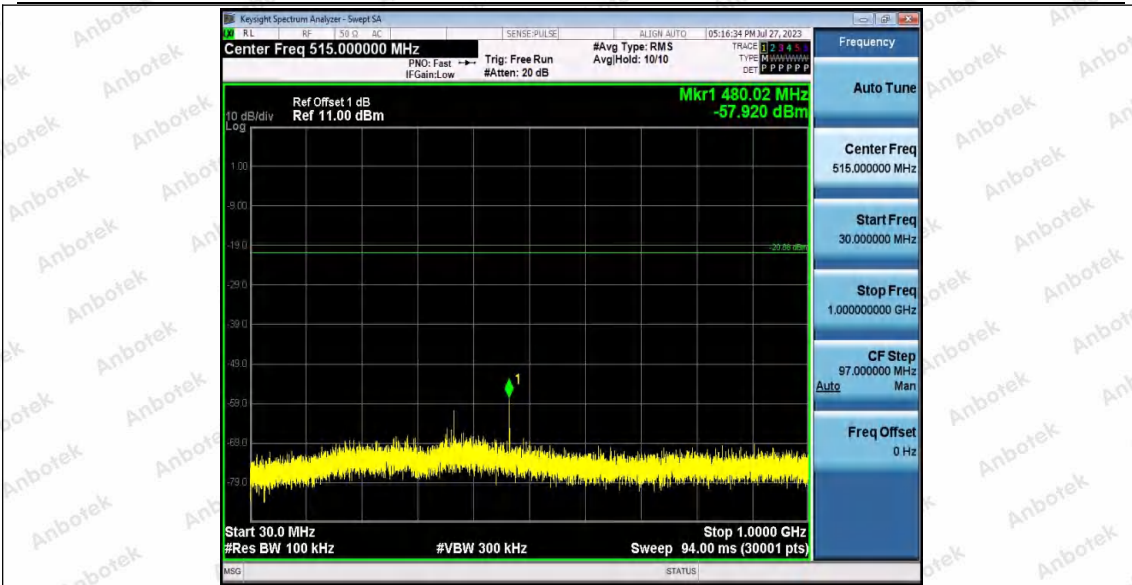
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11N20SISO\_Ant2\_2412\_1000~26500



11N20SISO\_Ant1\_2437\_0~Reference

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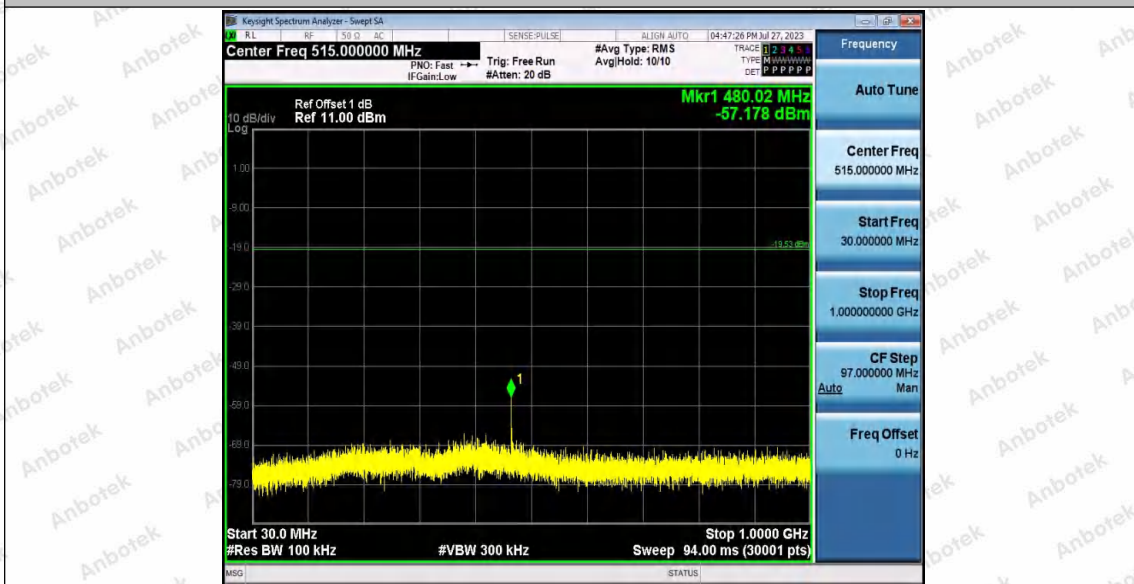
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11N20SISO\_Ant1\_2437\_1000~26500

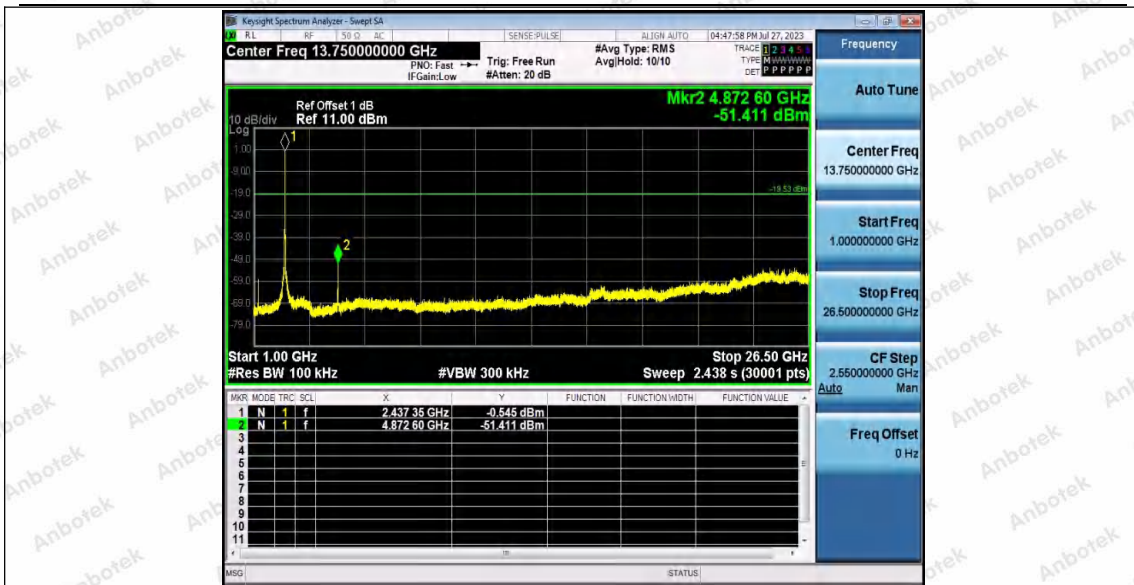
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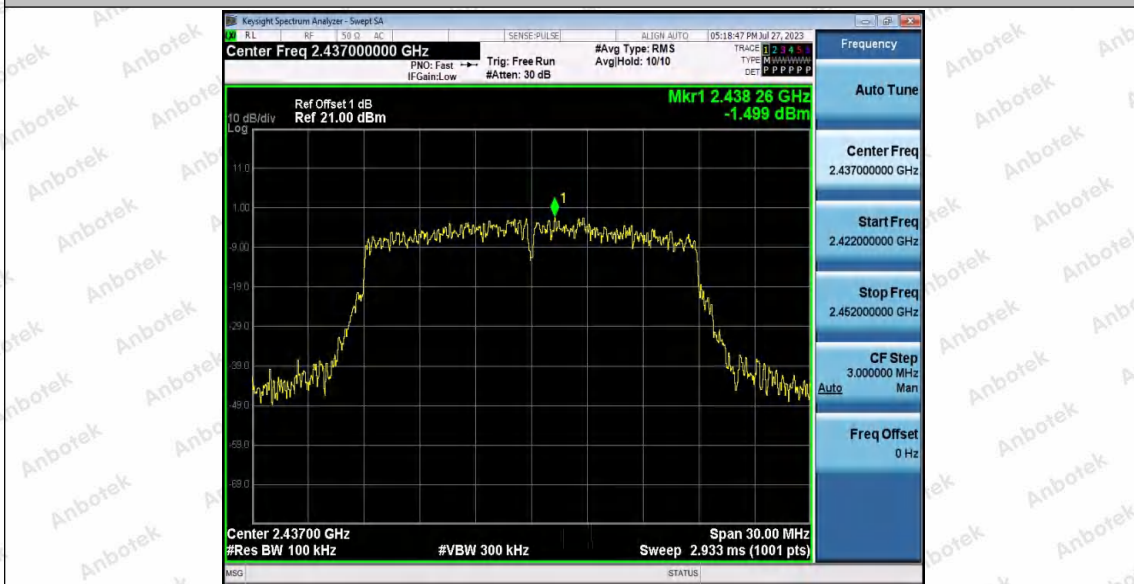
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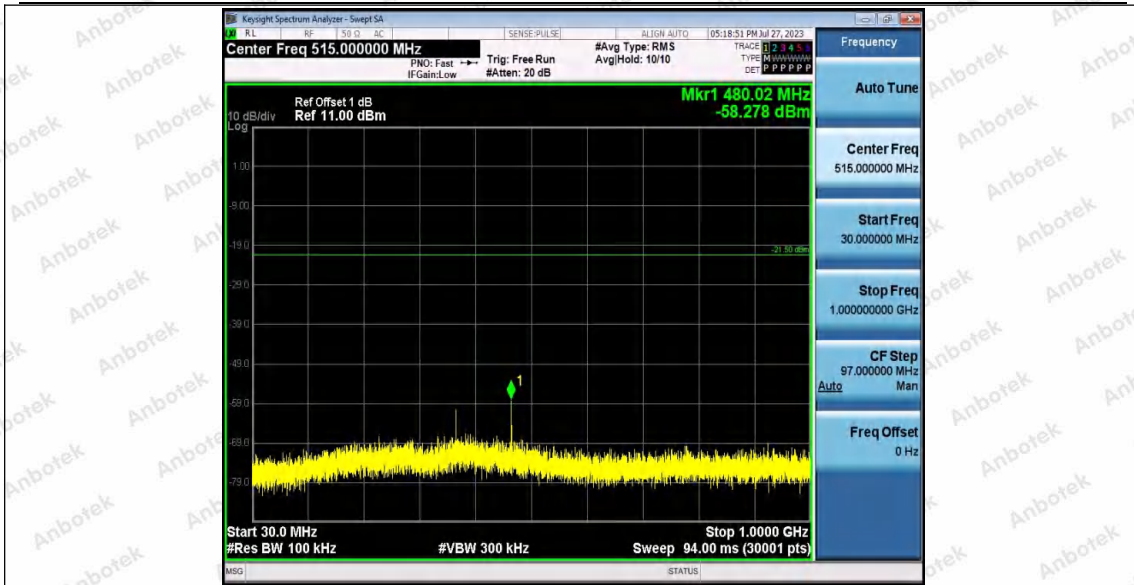
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11N20SISO\_Ant2\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference

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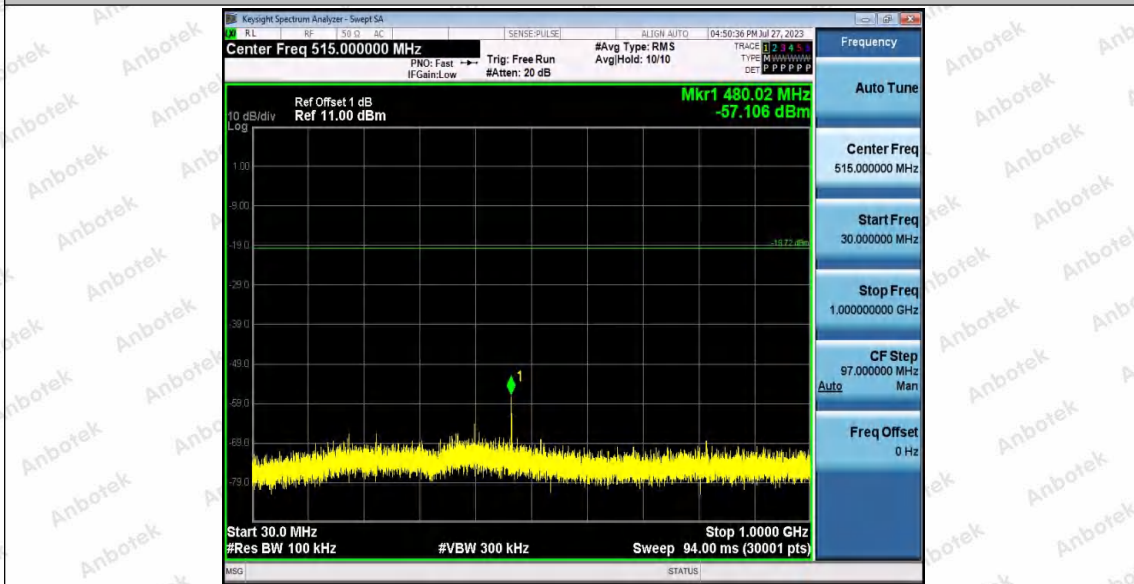
Hotline  
400-003-0500  
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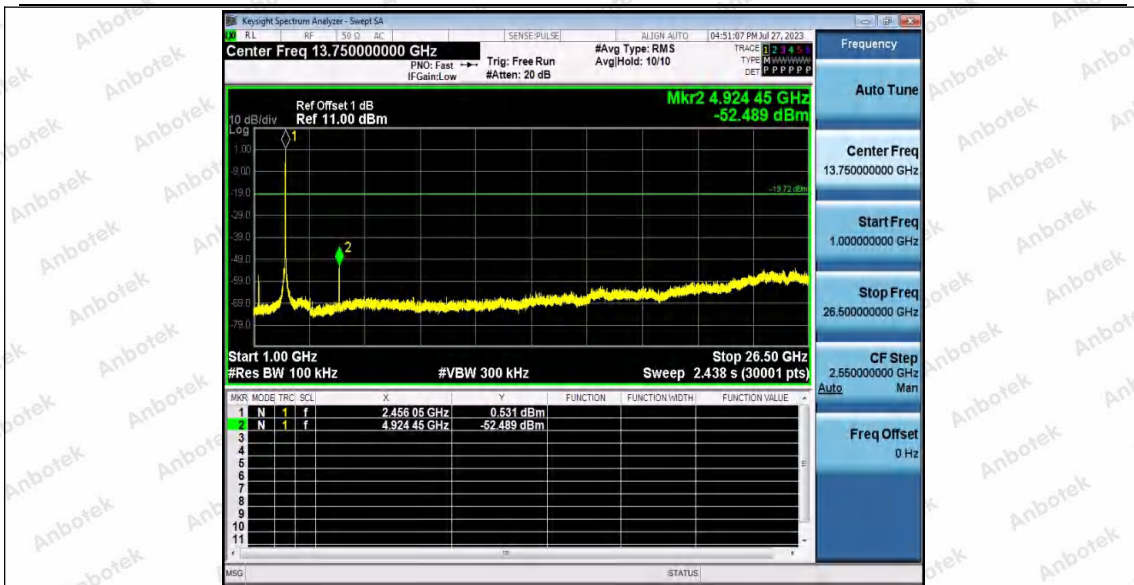
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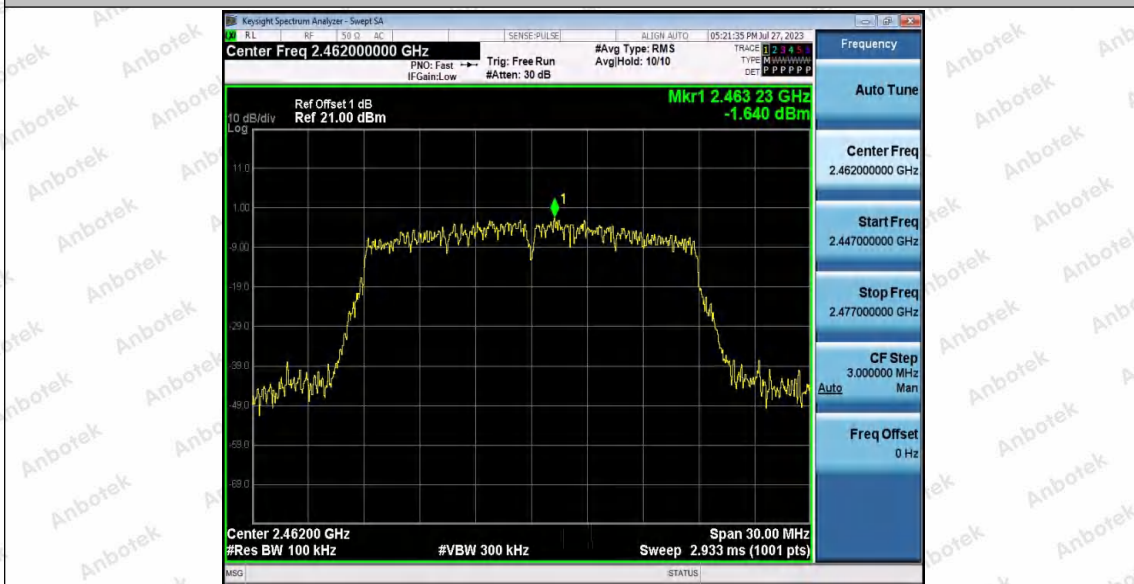
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11N20SISO\_Ant2\_2462\_0~Reference



11N20SISO\_Ant2\_2462\_30~1000

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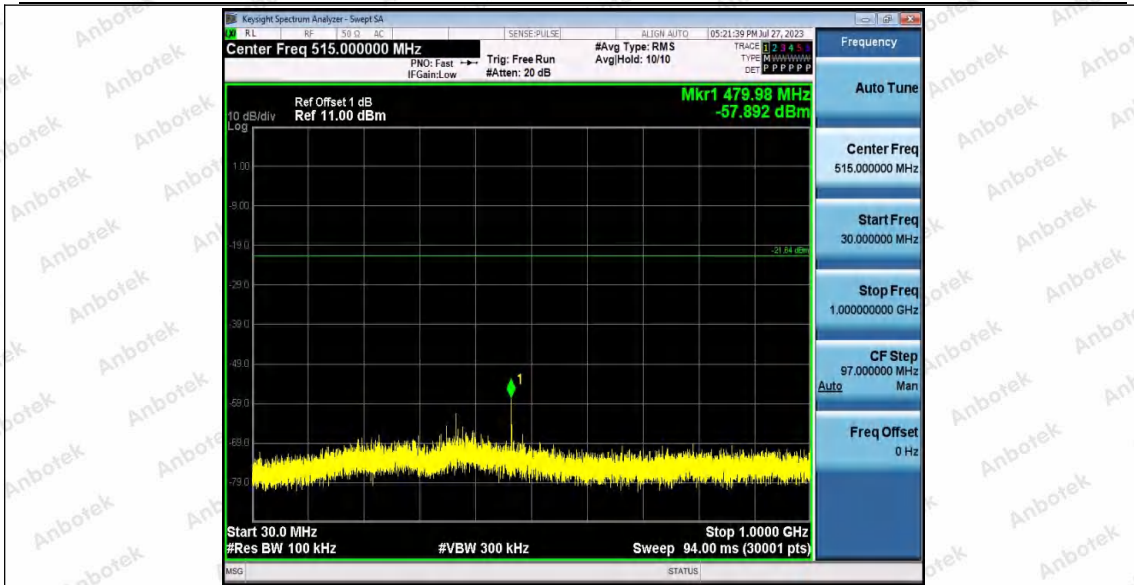
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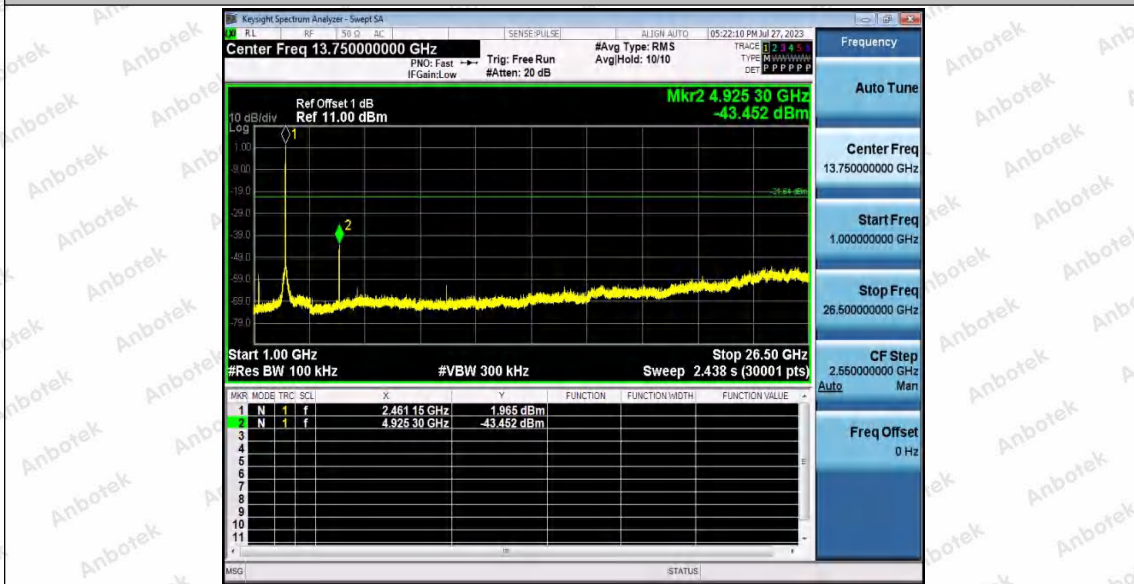
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11N20SISO\_Ant2\_2462\_1000~26500



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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	8.41	8.45	99.53	0.02
	Ant2	2412	8.41	8.48	99.17	0.04
	Ant1	2437	8.41	8.57	98.13	0.08
	Ant2	2437	8.42	8.52	98.83	0.05
	Ant1	2462	8.41	8.47	99.29	0.03
	Ant2	2462	8.42	8.50	99.06	0.04
11G	Ant1	2412	1.40	1.55	90.32	0.44
	Ant2	2412	1.39	1.53	90.85	0.42
	Ant1	2437	1.39	1.52	91.45	0.39
	Ant2	2437	1.39	1.55	89.68	0.47
	Ant1	2462	1.40	1.51	92.72	0.33
	Ant2	2462	1.40	1.53	91.50	0.39
11N20SISO	Ant1	2412	1.31	1.46	89.73	0.47
	Ant2	2412	1.31	1.46	89.73	0.47
	Ant1	2437	1.31	1.46	89.73	0.47
	Ant2	2437	1.31	1.47	89.12	0.50
	Ant1	2462	1.30	1.46	89.04	0.50
	Ant2	2462	1.31	1.47	89.12	0.50

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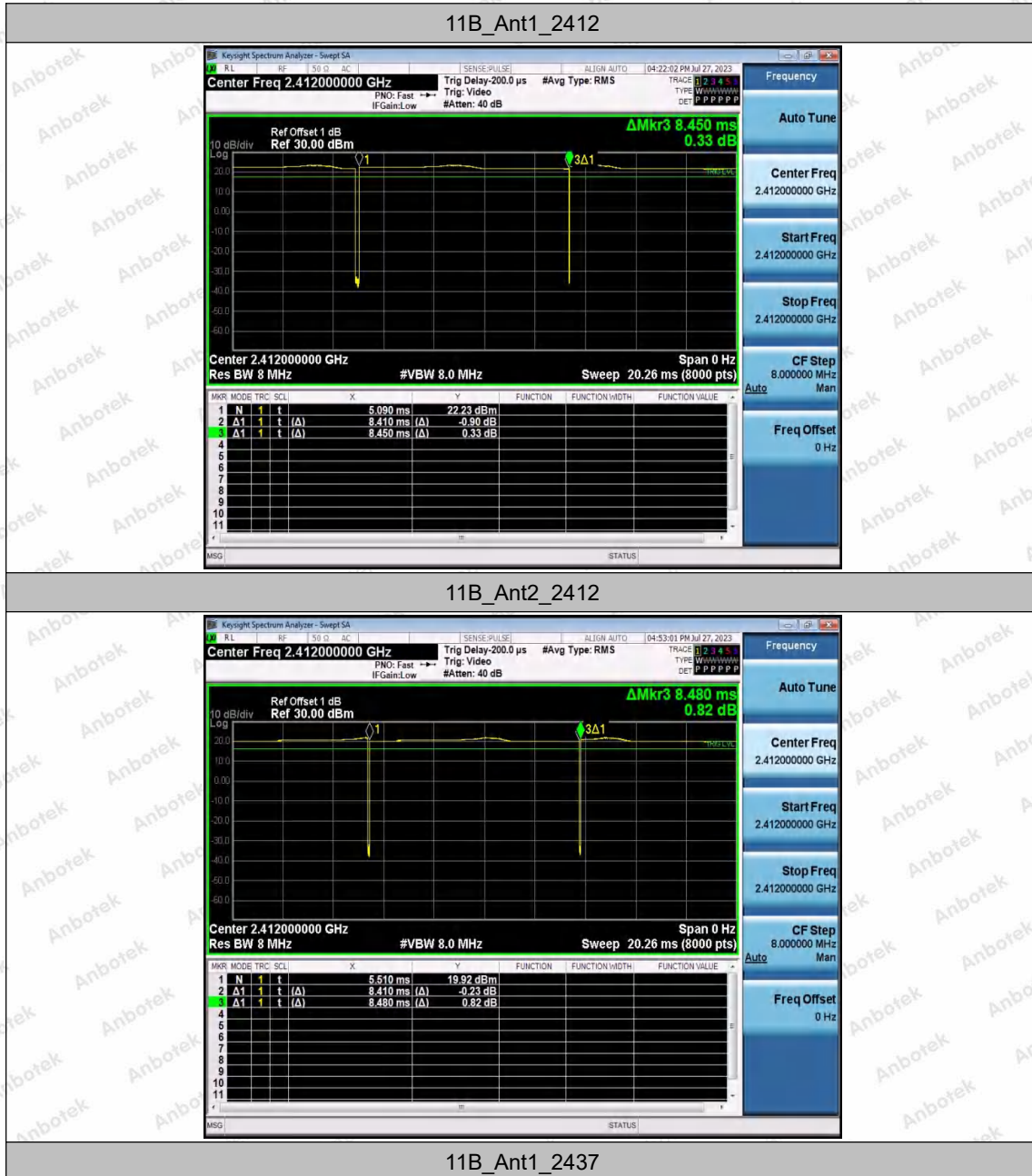
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## Test Graphs

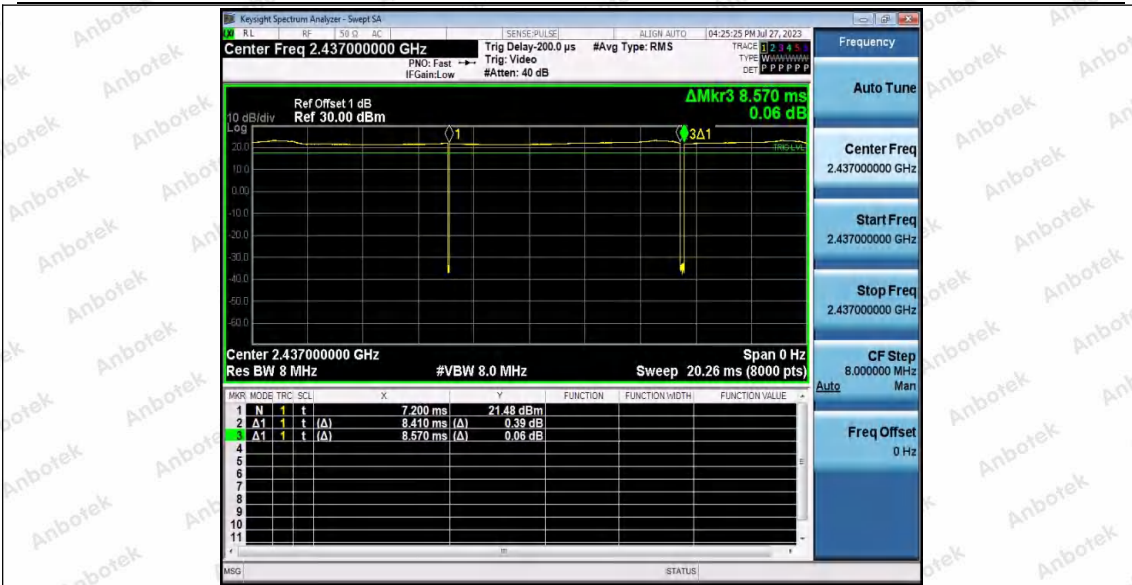


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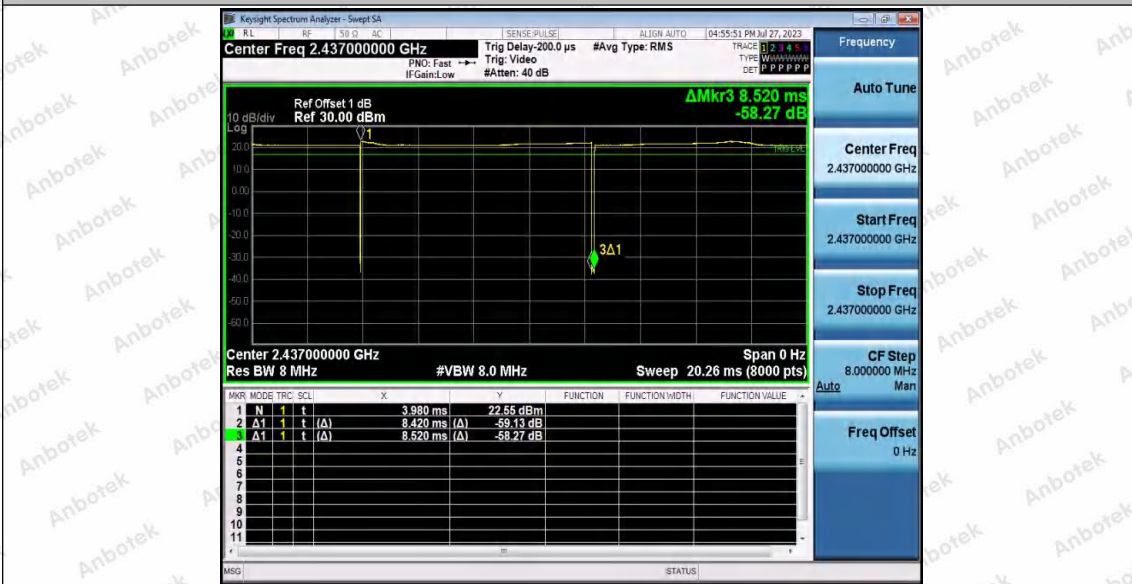
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11B\_Ant2\_2437



11B\_Ant1\_2462

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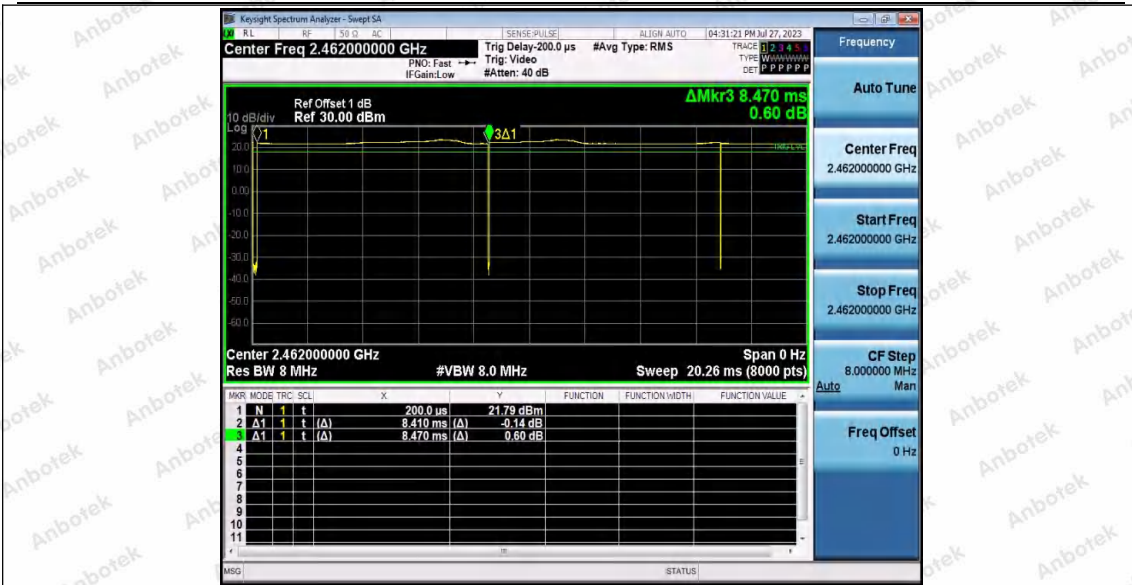
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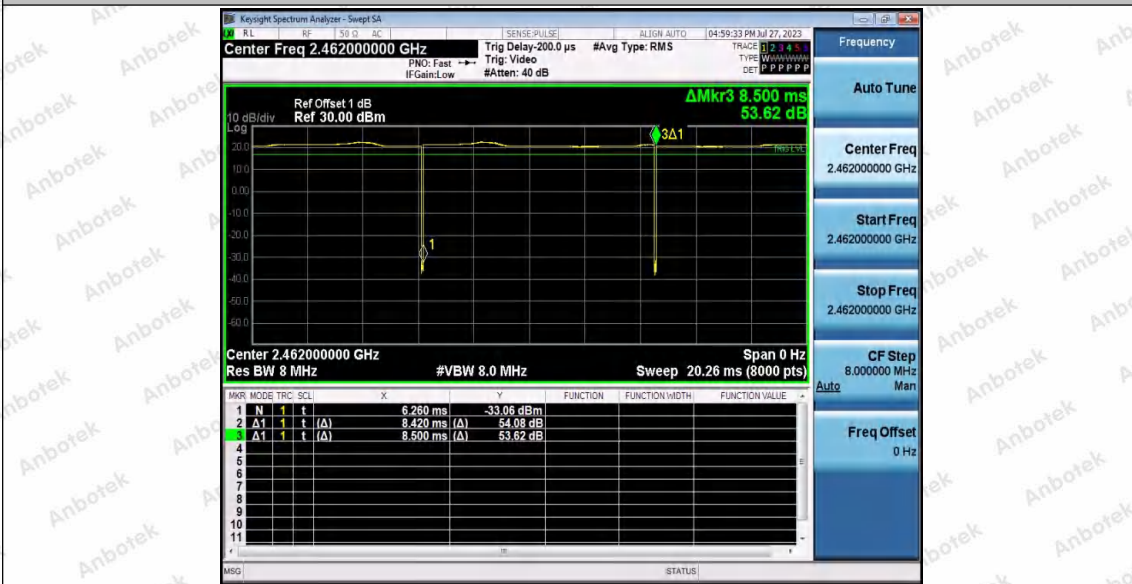
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11B\_Ant2\_2462



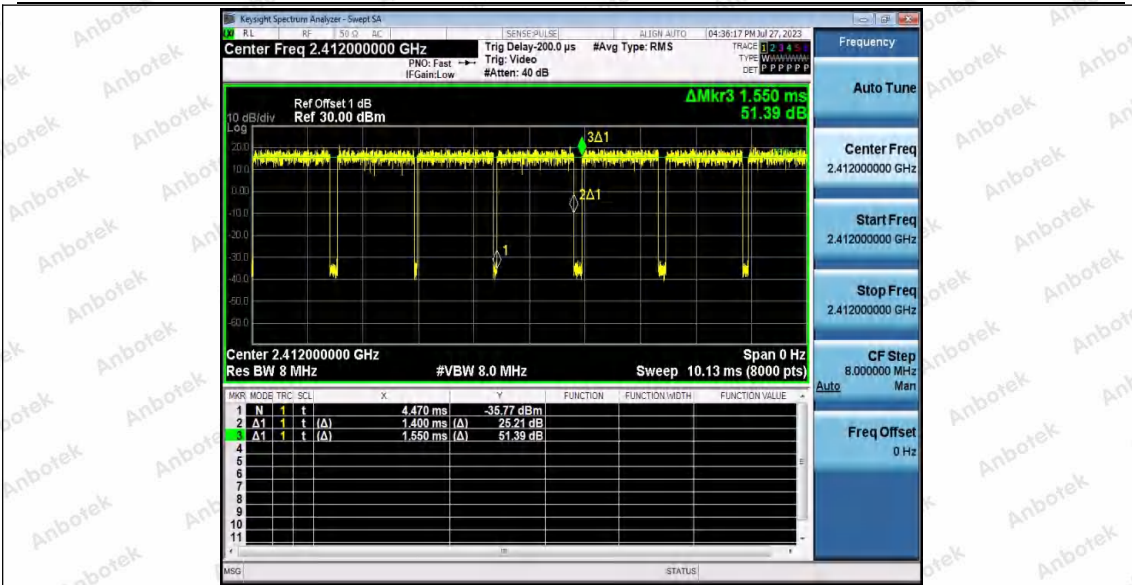
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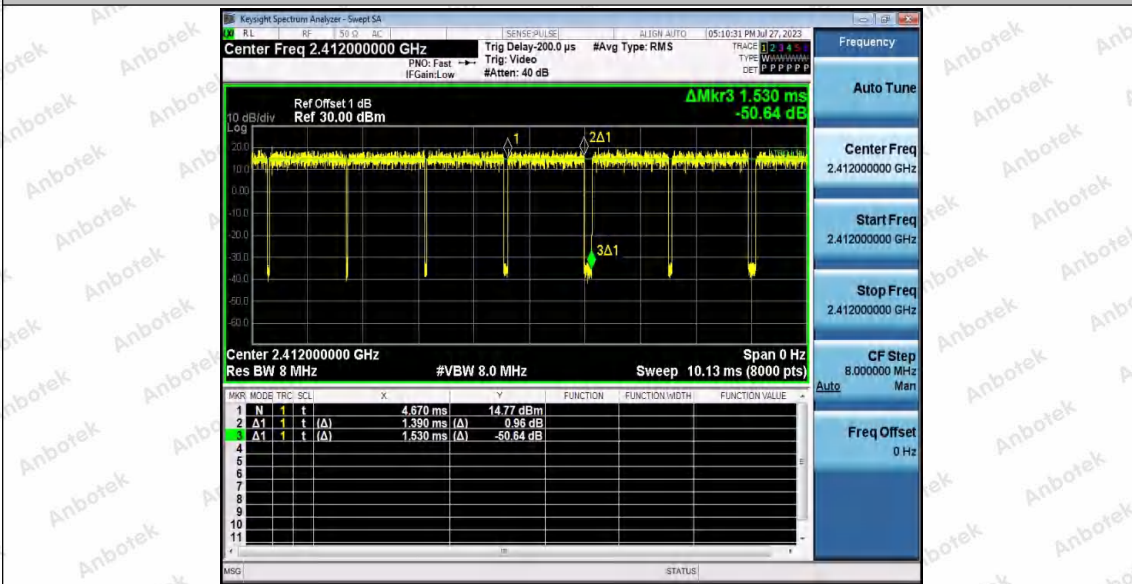
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11G\_Ant2\_2412



11G\_Ant1\_2437

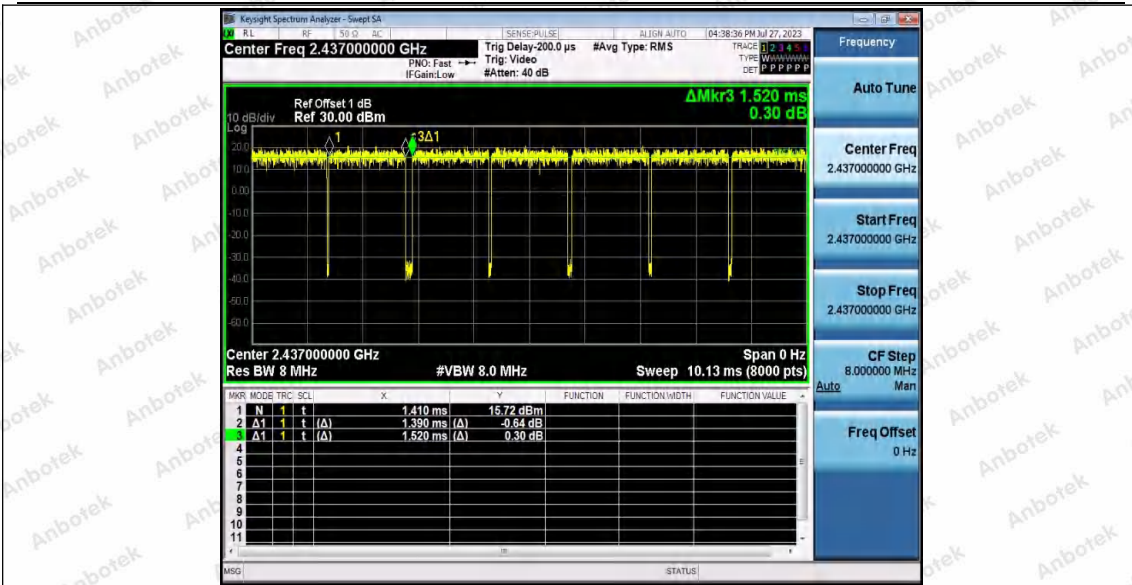
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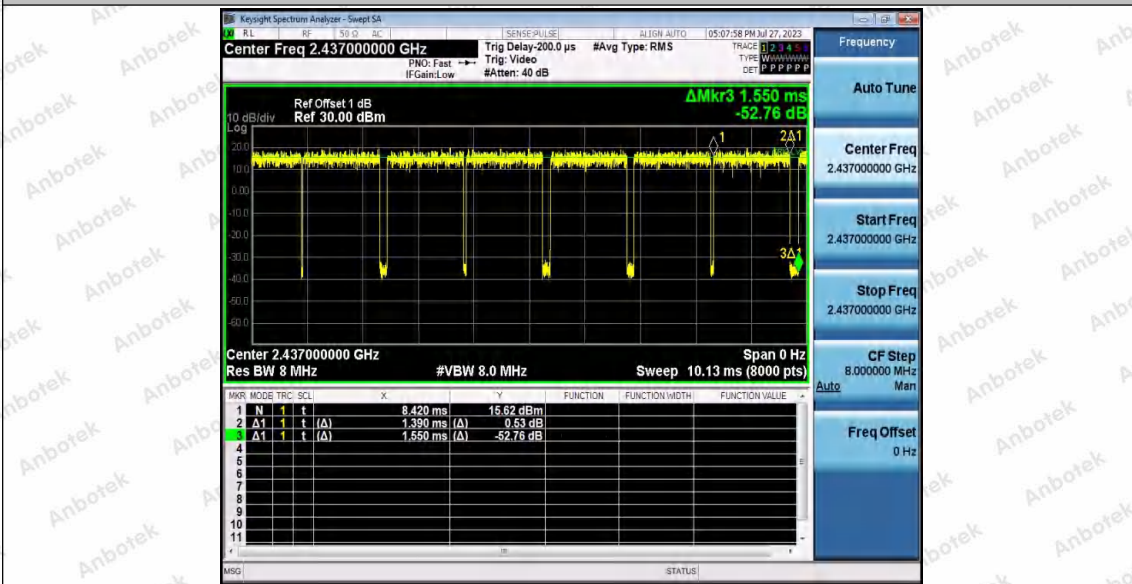
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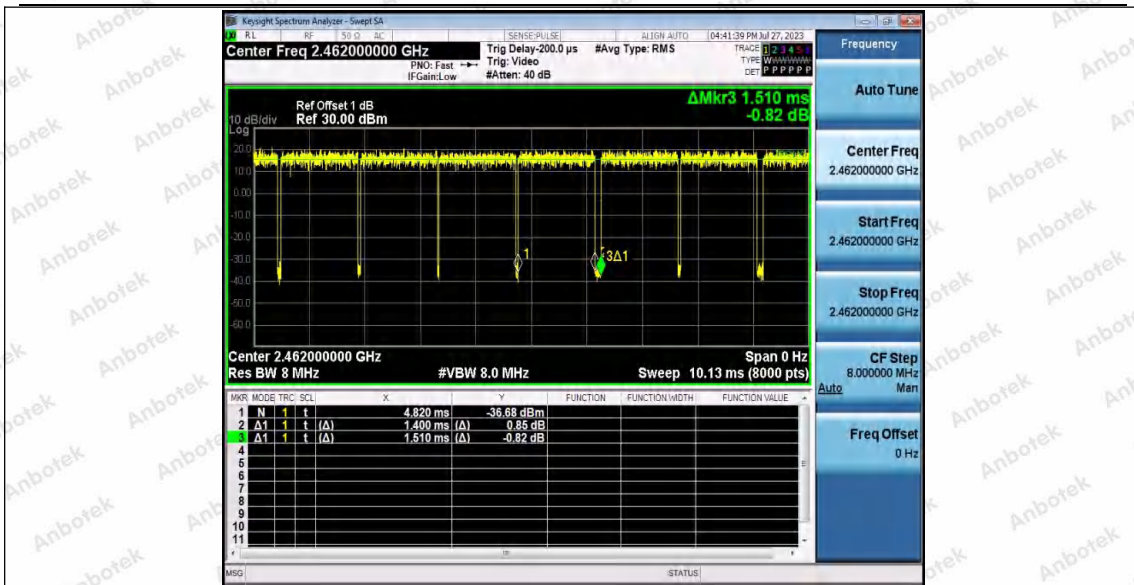
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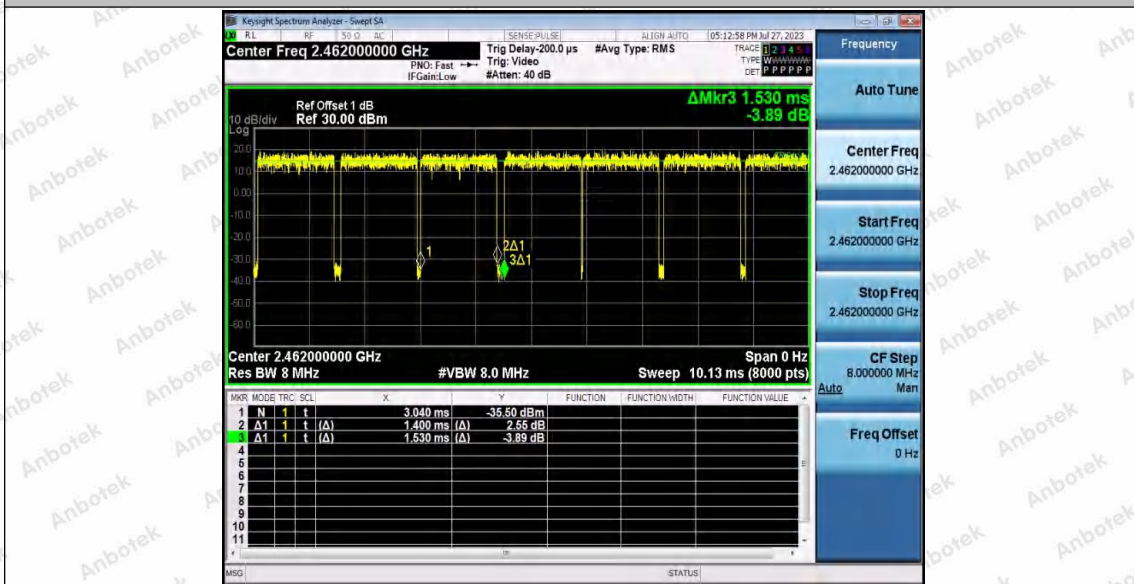
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11G\_Ant2\_2462



11N20SISO\_Ant1\_2412

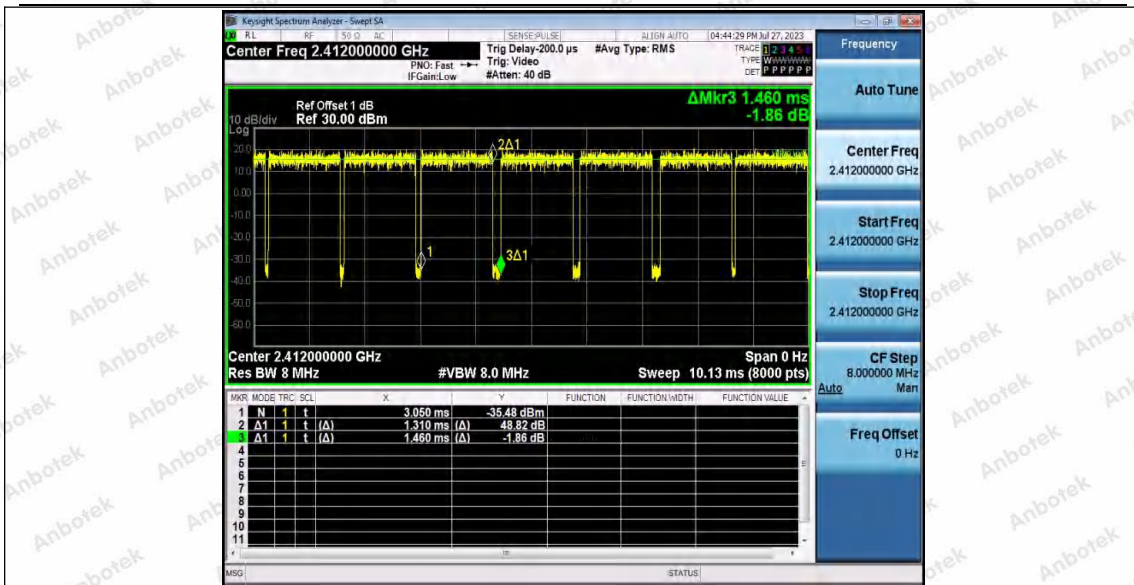
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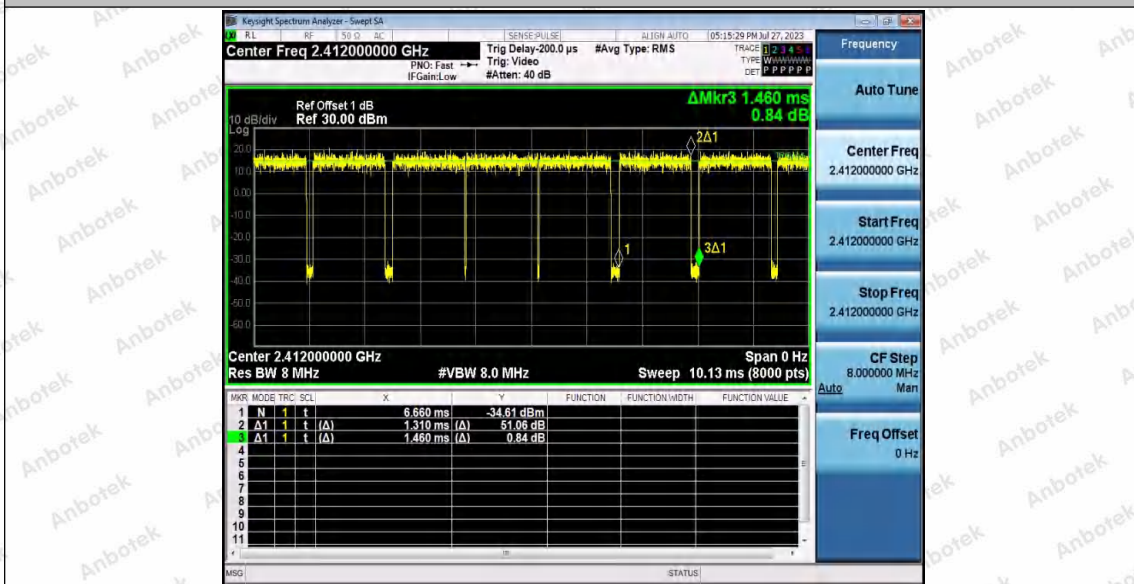
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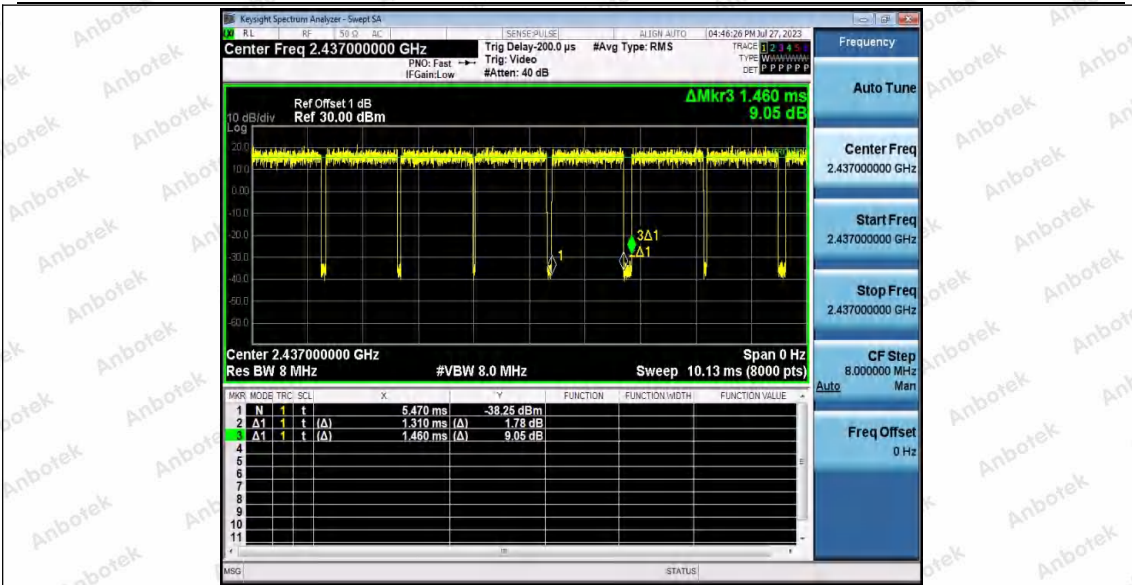
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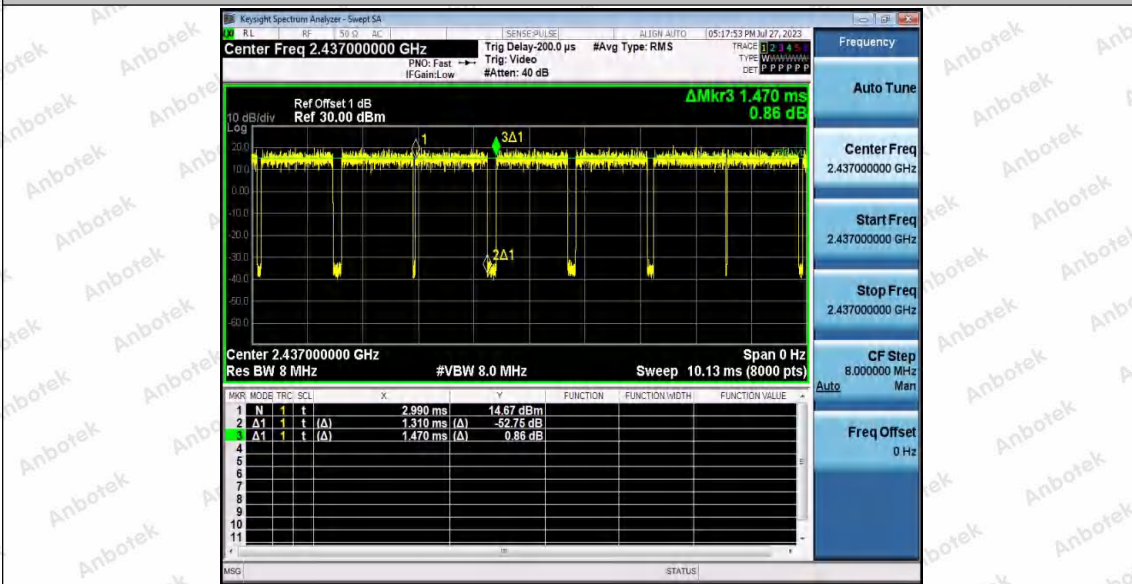
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11N20SISO\_Ant2\_2437



11N20SISO\_Ant1\_2462

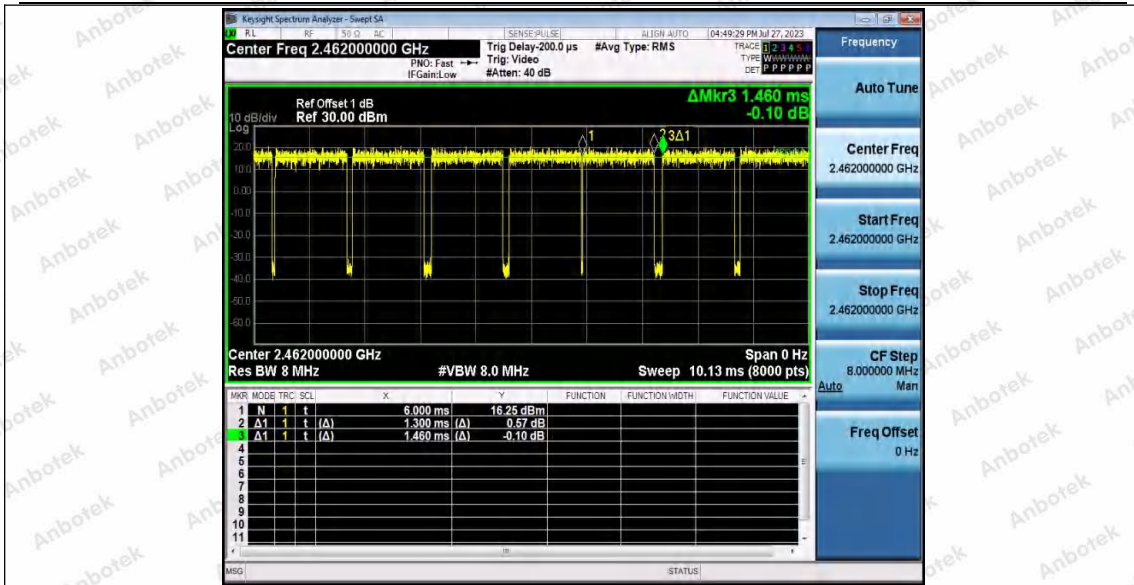
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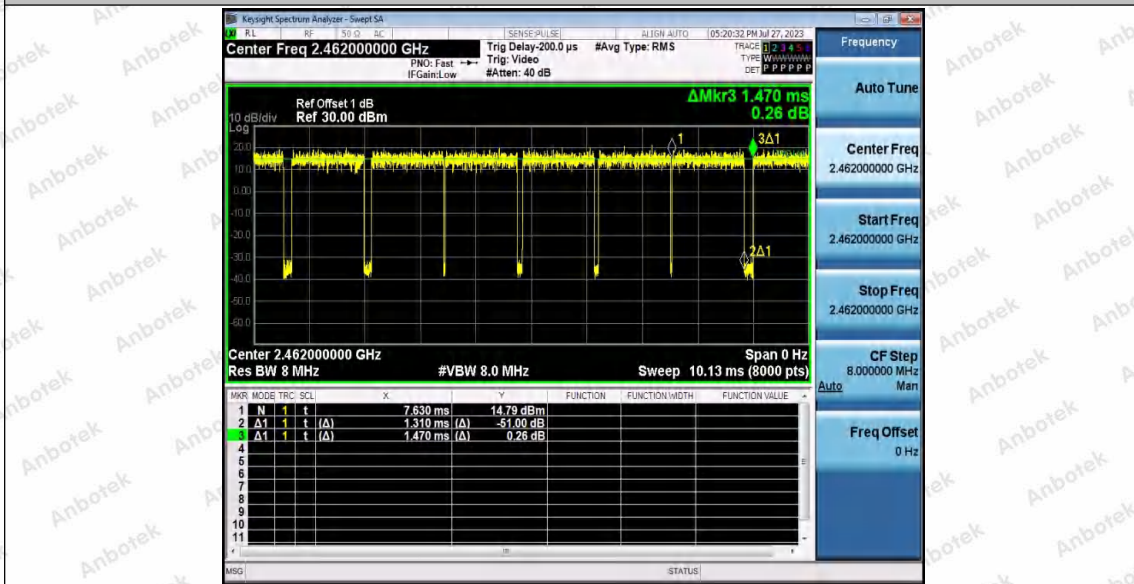
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