

## Appendix Test Data

Report No.:	18220WC10141403	Test Date:	2021.8.31
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.360	2408.160	2415.520	≥0.5	PASS
	Ant2	2412	7.280	2408.440	2415.720	≥0.5	PASS
	Ant1	2437	6.640	2434.000	2440.640	≥0.5	PASS
	Ant2	2437	7.560	2433.240	2440.800	≥0.5	PASS
	Ant1	2462	7.120	2458.440	2465.560	≥0.5	PASS
	Ant2	2462	7.880	2458.360	2466.240	≥0.5	PASS
11G	Ant1	2412	16.520	2403.760	2420.280	≥0.5	PASS
	Ant2	2412	16.520	2403.760	2420.280	≥0.5	PASS
	Ant1	2437	16.520	2428.760	2445.280	≥0.5	PASS
	Ant2	2437	16.520	2428.760	2445.280	≥0.5	PASS
	Ant1	2462	16.560	2453.760	2470.320	≥0.5	PASS
	Ant2	2462	16.560	2453.760	2470.320	≥0.5	PASS
11N20	Ant1	2412	17.840	2403.120	2420.960	≥0.5	PASS
	Ant2	2412	17.760	2403.080	2420.840	≥0.5	PASS
	Ant1	2437	17.800	2428.120	2445.920	≥0.5	PASS
	Ant2	2437	17.800	2428.120	2445.920	≥0.5	PASS
	Ant1	2462	17.840	2453.120	2470.960	≥0.5	PASS
	Ant2	2462	17.760	2453.160	2470.920	≥0.5	PASS

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## Test Graphs

11B\_Ant1\_2412



11B\_Ant2\_2412



11B\_Ant1\_2437

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11B\_Ant2\_2437



11B\_Ant1\_2462



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11B\_Ant2\_2462



11G\_Ant1\_2412



11G\_Ant2\_2412

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11G\_Ant1\_2437



11G\_Ant2\_2437



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11G\_Ant1\_2462



11G\_Ant2\_2462



11N20\_Ant1\_2412

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11N20\_Ant2\_2412



11N20\_Ant1\_2437



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11N20\_Ant2\_2437



11N20\_Ant1\_2462



11N20\_Ant2\_2462

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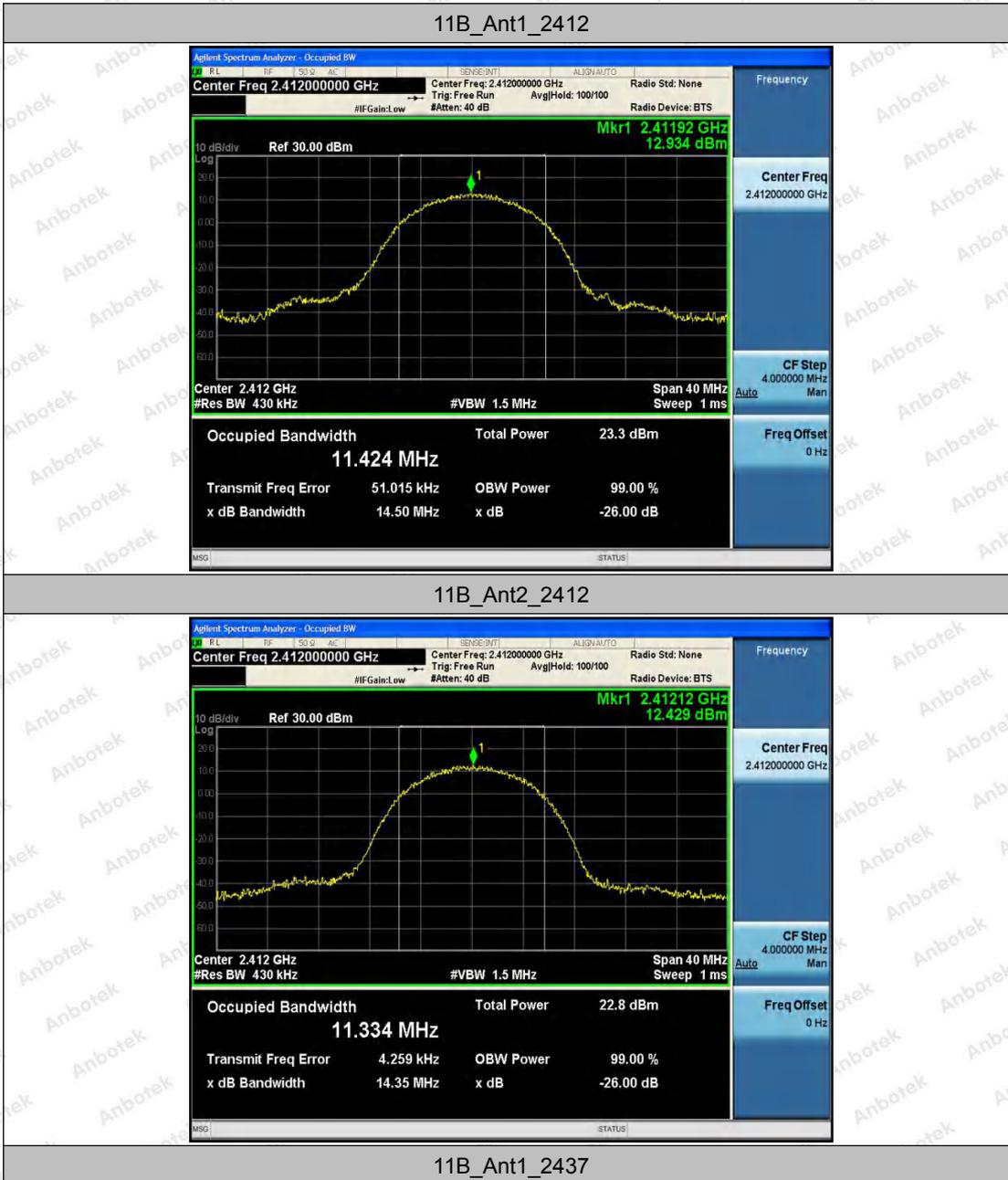
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## Appendix B: Occupied Channel Bandwidth

### Test Result

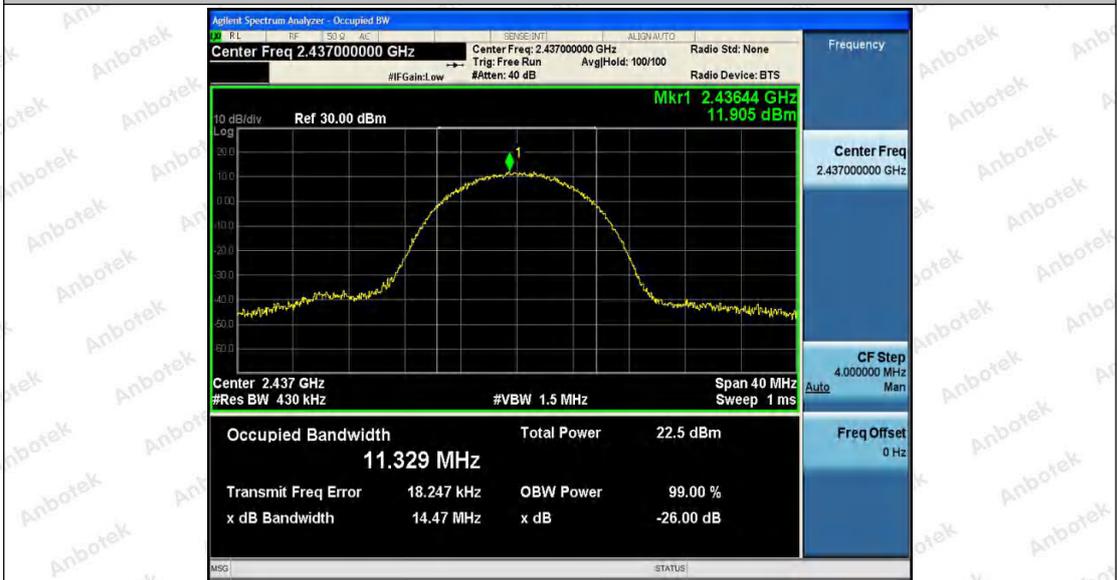
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.424	2406.339	2417.763	---	PASS
	Ant2	2412	11.334	2406.337	2417.671	---	PASS
	Ant1	2437	11.353	2431.448	2442.801	---	PASS
	Ant2	2437	11.329	2431.354	2442.683	---	PASS
	Ant1	2462	11.318	2456.447	2467.765	---	PASS
	Ant2	2462	11.339	2456.418	2467.757	---	PASS
11G	Ant1	2412	17.189	2403.354	2420.543	---	PASS
	Ant2	2412	17.166	2403.348	2420.514	---	PASS
	Ant1	2437	17.108	2428.467	2445.575	---	PASS
	Ant2	2437	17.249	2428.351	2445.600	---	PASS
	Ant1	2462	17.128	2453.523	2470.651	---	PASS
	Ant2	2462	17.181	2453.482	2470.663	---	PASS
11N20	Ant1	2412	18.085	2402.980	2421.065	---	PASS
	Ant2	2412	18.070	2402.953	2421.023	---	PASS
	Ant1	2437	18.067	2428.048	2446.115	---	PASS
	Ant2	2437	18.149	2427.955	2446.104	---	PASS
	Ant1	2462	18.169	2452.992	2471.161	---	PASS
	Ant2	2462	18.174	2453.006	2471.180	---	PASS

## Test Graphs





11B\_Ant2\_2437



11B\_Ant1\_2462

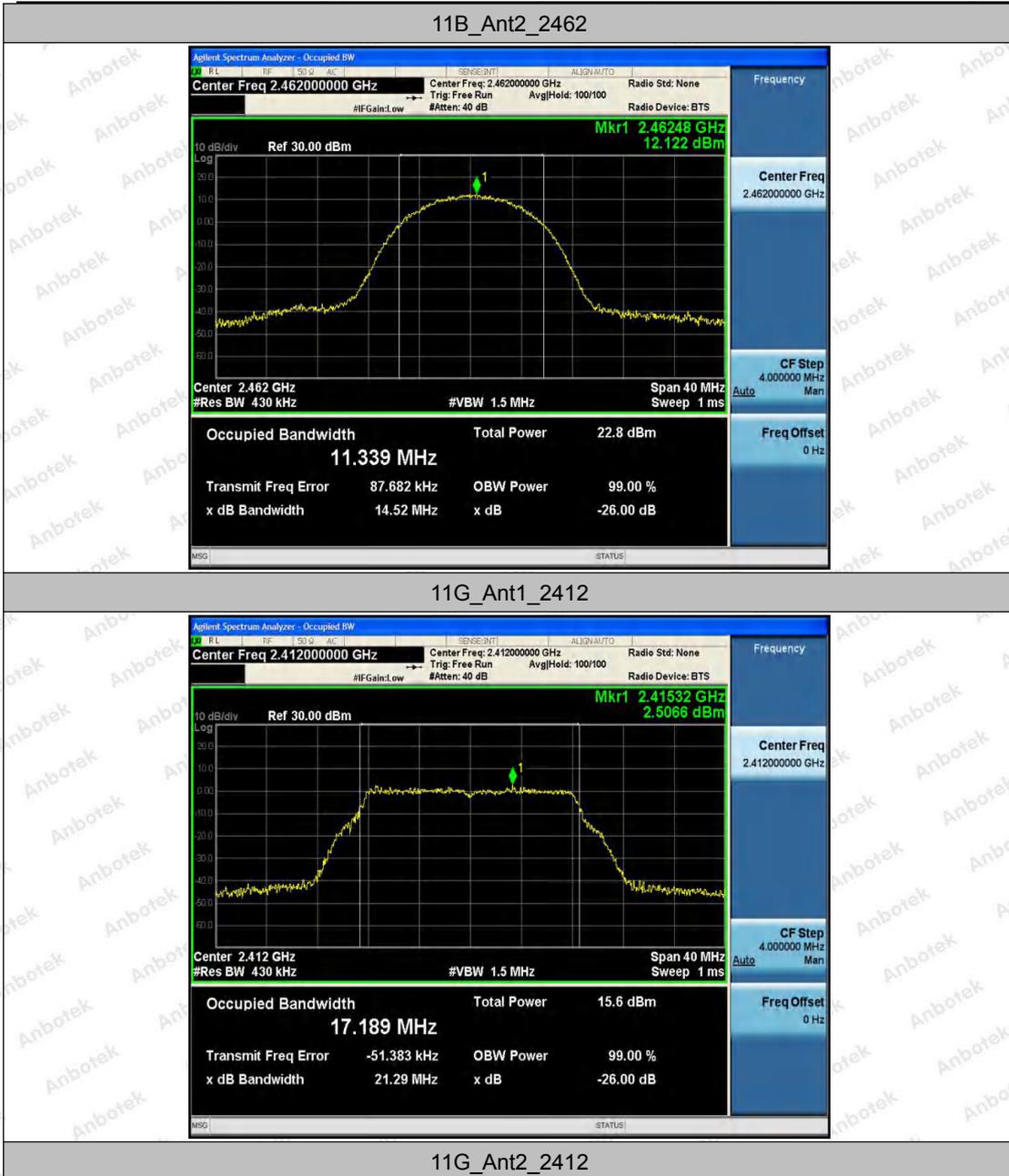


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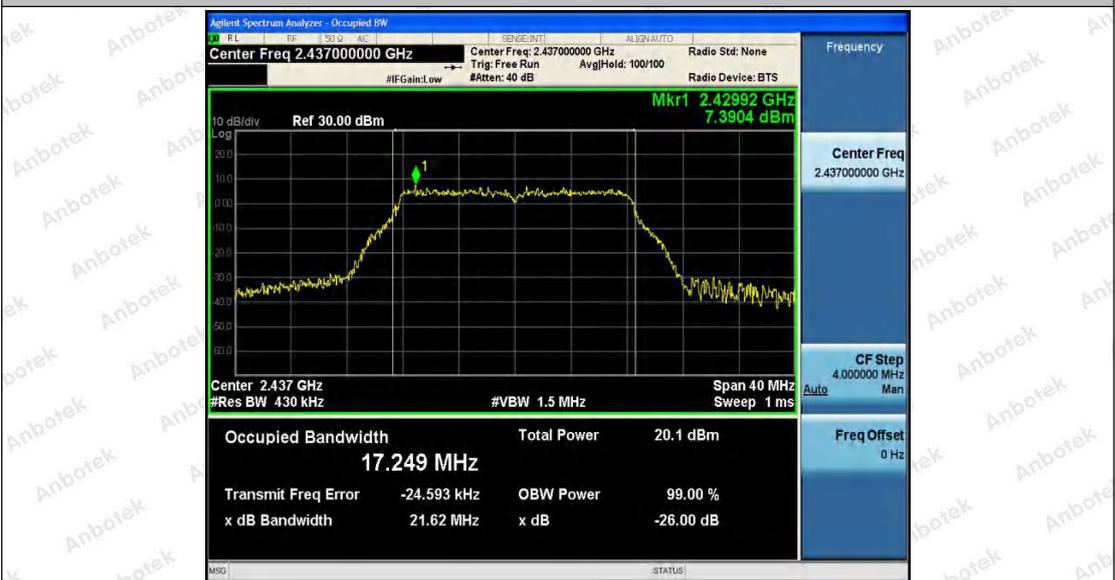
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11G\_Ant1\_2437



11G\_Ant2\_2437

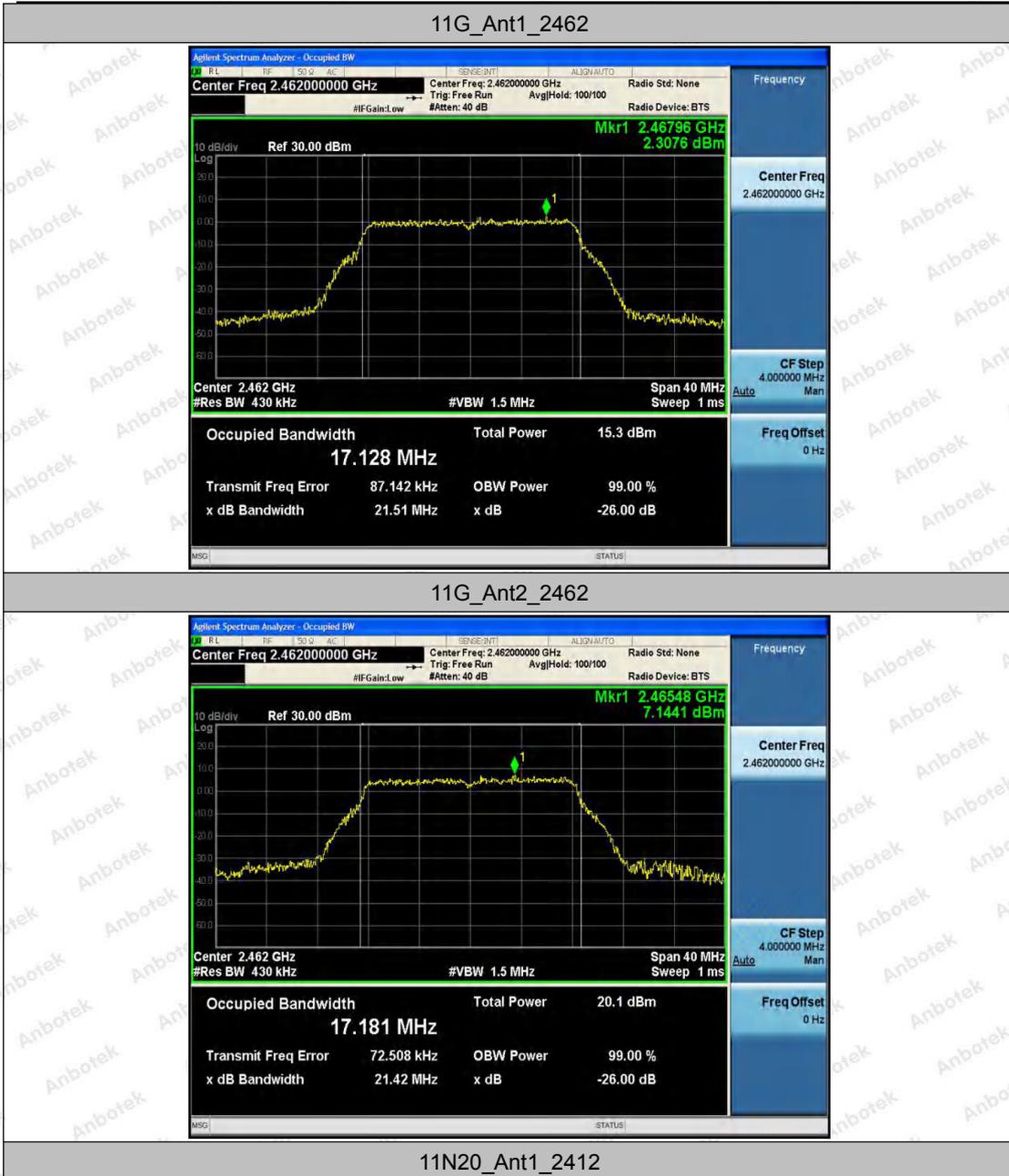


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11N20\_Ant2\_2412



11N20\_Ant1\_2437

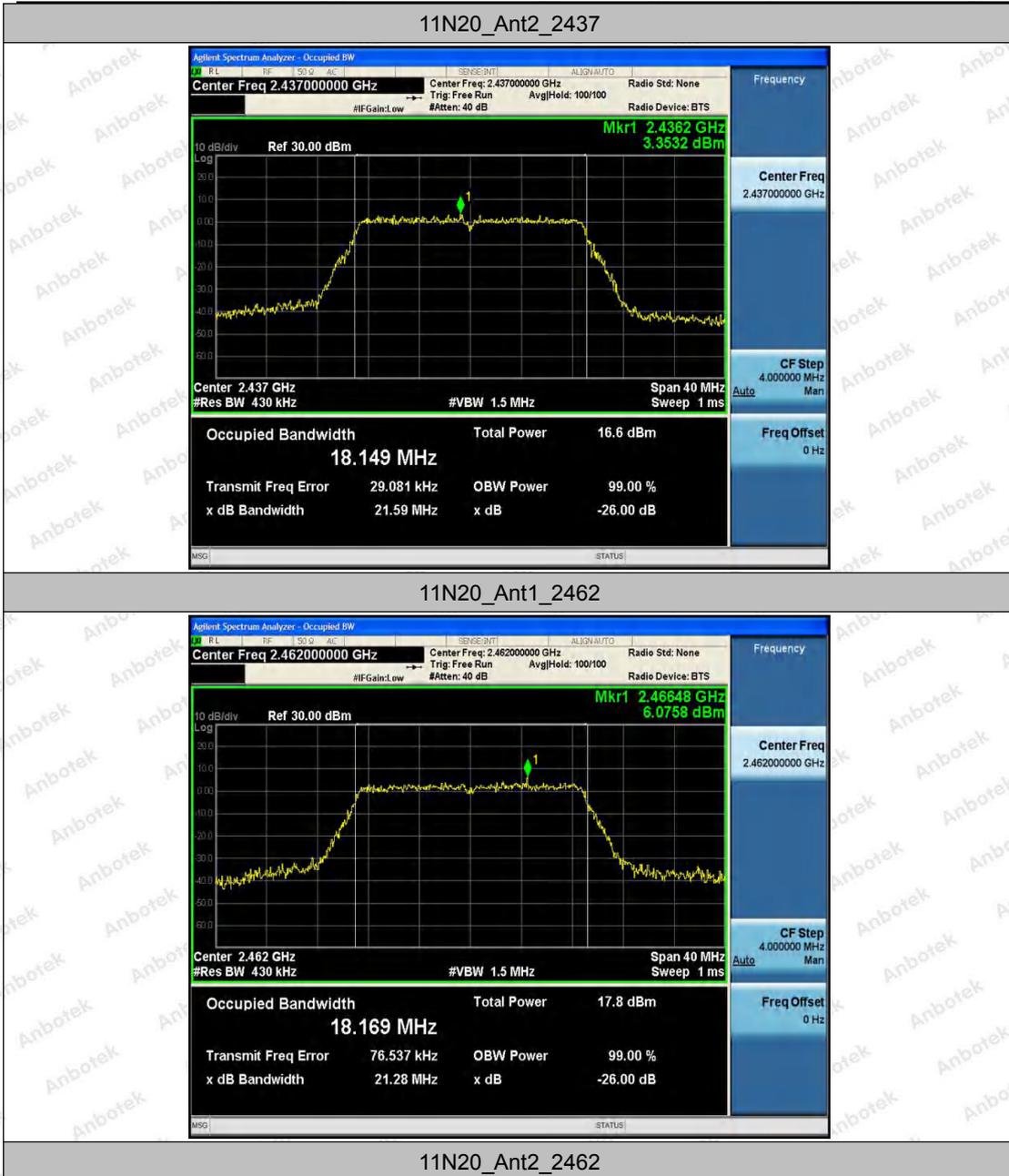


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## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	22.88	≤30	PASS
	Ant2	2412	22.33	≤30	PASS
	Ant1	2437	23.09	≤30	PASS
	Ant2	2437	21.93	≤30	PASS
	Ant1	2462	23.88	≤30	PASS
	Ant2	2462	22.28	≤30	PASS
11G	Ant1	2412	16.49	≤30	PASS
	Ant2	2412	21.46	≤30	PASS
	Ant1	2437	16.00	≤30	PASS
	Ant2	2437	20.88	≤30	PASS
	Ant1	2462	16.17	≤30	PASS
	Ant2	2462	20.96	≤30	PASS
11N20	Ant1	2412	18.36	≤30	PASS
	Ant2	2412	17.97	≤30	PASS
	Ant1	2437	18.10	≤30	PASS
	Ant2	2437	17.34	≤30	PASS
	Ant1	2462	18.57	≤30	PASS
	Ant2	2462	17.48	≤30	PASS

### MIMO

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20	2412	21.180	≤30	PASS
	2437	20.747	≤30	PASS
	2462	21.069	≤30	PASS

## Appendix D: Maximum power spectral density

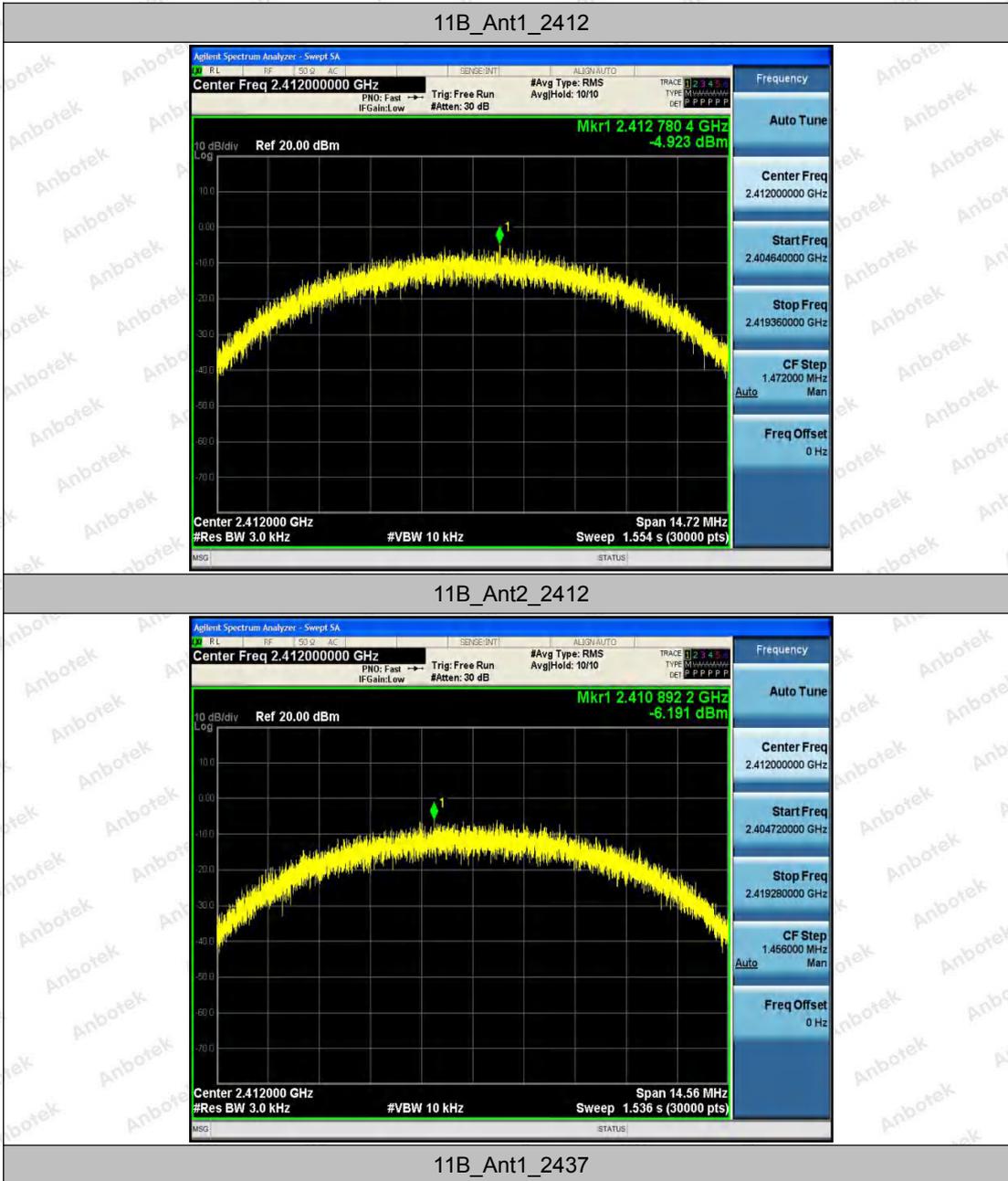
### Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.92	≤8	PASS
	Ant2	2412	-6.19	≤8	PASS
	Ant1	2437	-4.57	≤8	PASS
	Ant2	2437	-6.55	≤8	PASS
	Ant1	2462	-4.34	≤8	PASS
	Ant2	2462	-5.6	≤8	PASS
11G	Ant1	2412	-15.94	≤8	PASS
	Ant2	2412	-11.12	≤8	PASS
	Ant1	2437	-16.6	≤8	PASS
	Ant2	2437	-11.71	≤8	PASS
	Ant1	2462	-16.81	≤8	PASS
	Ant2	2462	-12.17	≤8	PASS
11N20	Ant1	2412	-15.19	≤8	PASS
	Ant2	2412	-15.46	≤8	PASS
	Ant1	2437	-14.28	≤8	PASS
	Ant2	2437	-16.17	≤8	PASS
	Ant1	2462	-14.59	≤8	PASS
	Ant2	2462	-16.43	≤8	PASS

### MIMO

TestMode	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	2412	-12.313	≤8	PASS
	2437	-12.113	≤8	PASS
	2462	-12.403	≤8	PASS

## Test Graphs

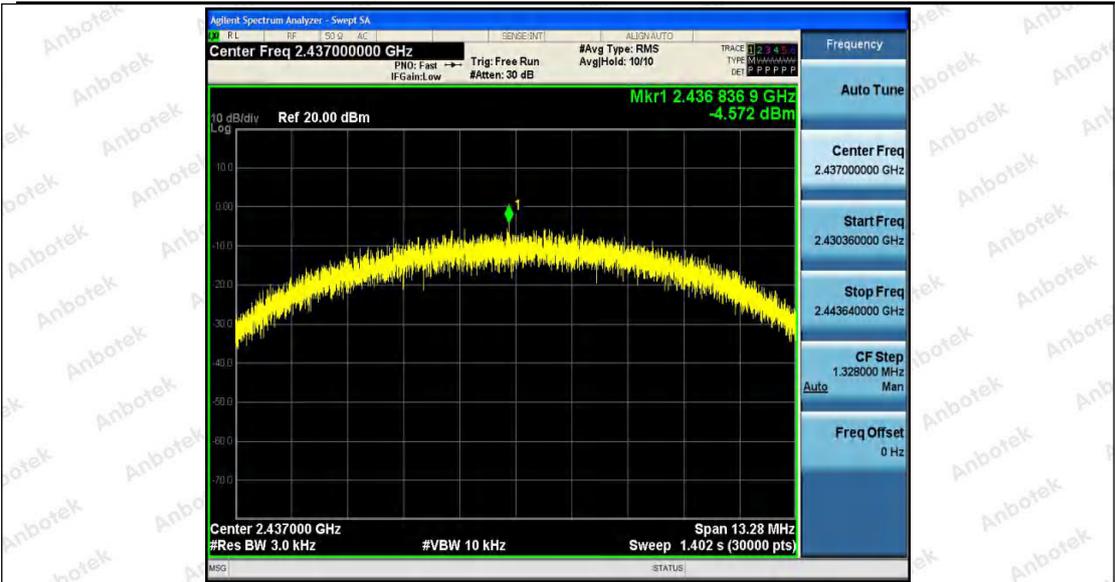


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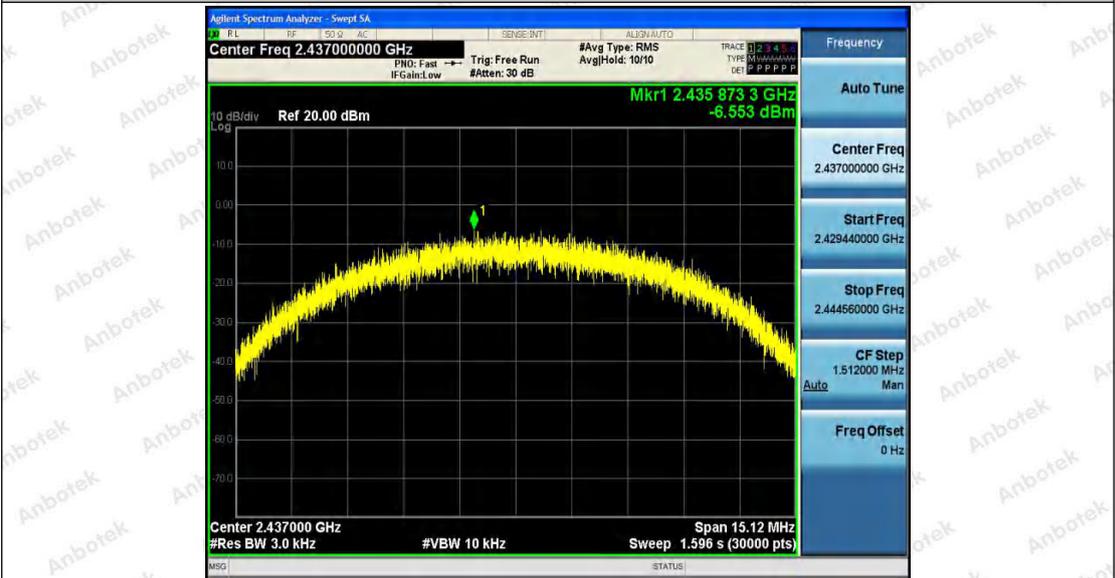
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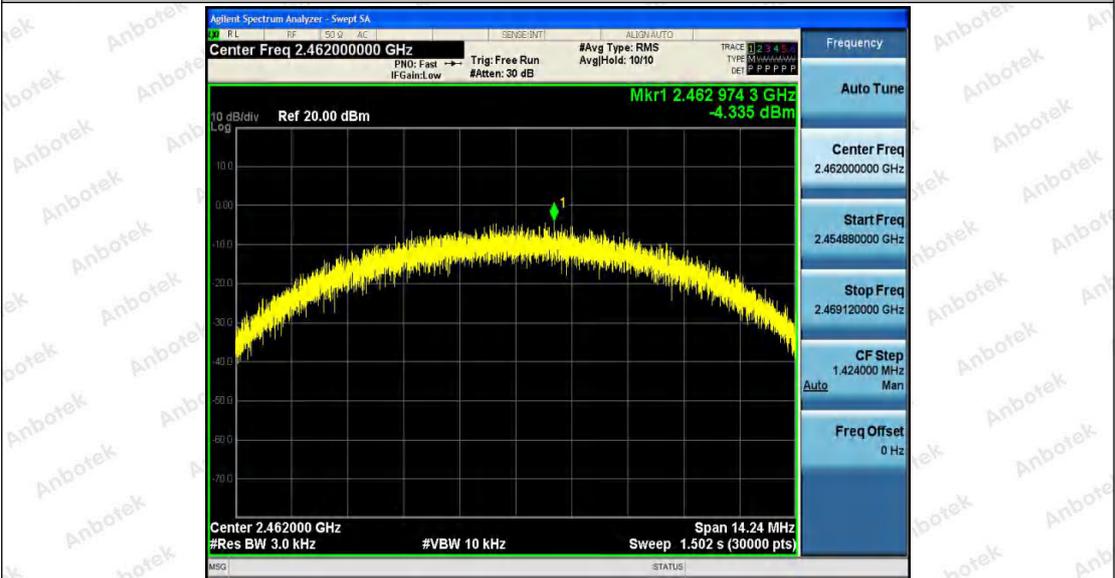
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11B\_Ant2\_2437



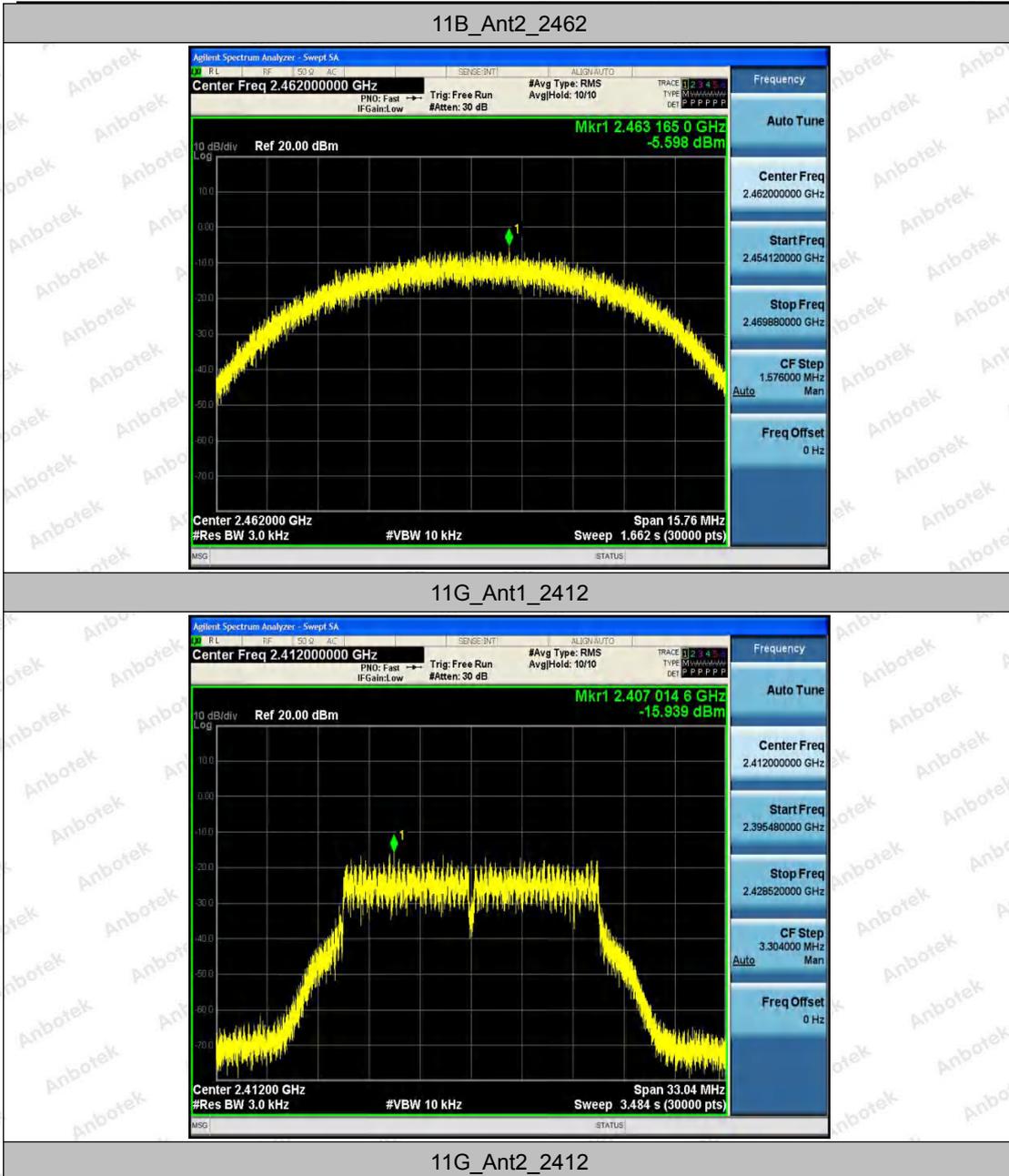
11B\_Ant1\_2462



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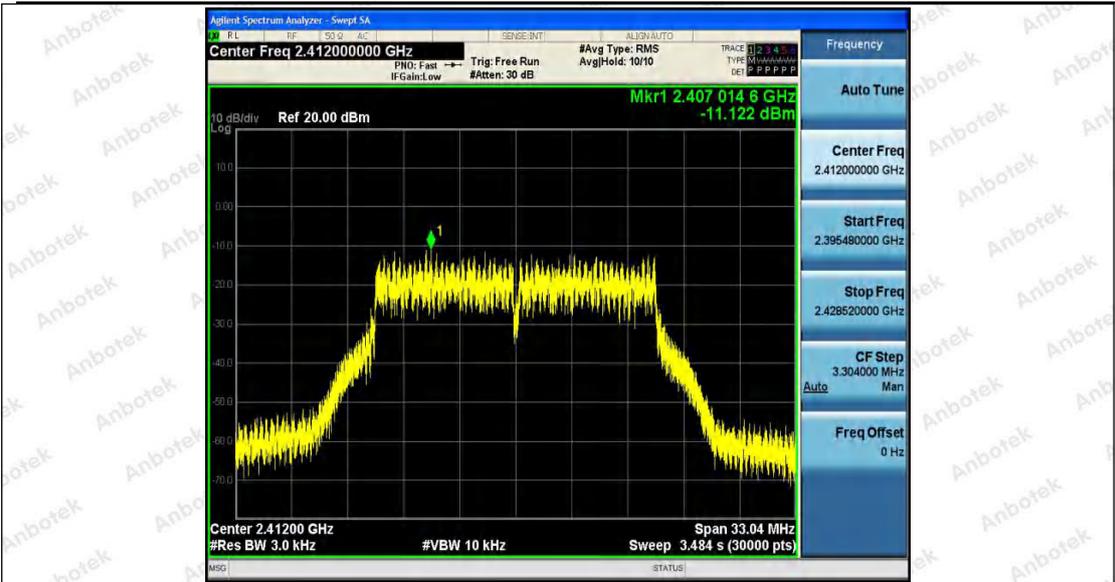
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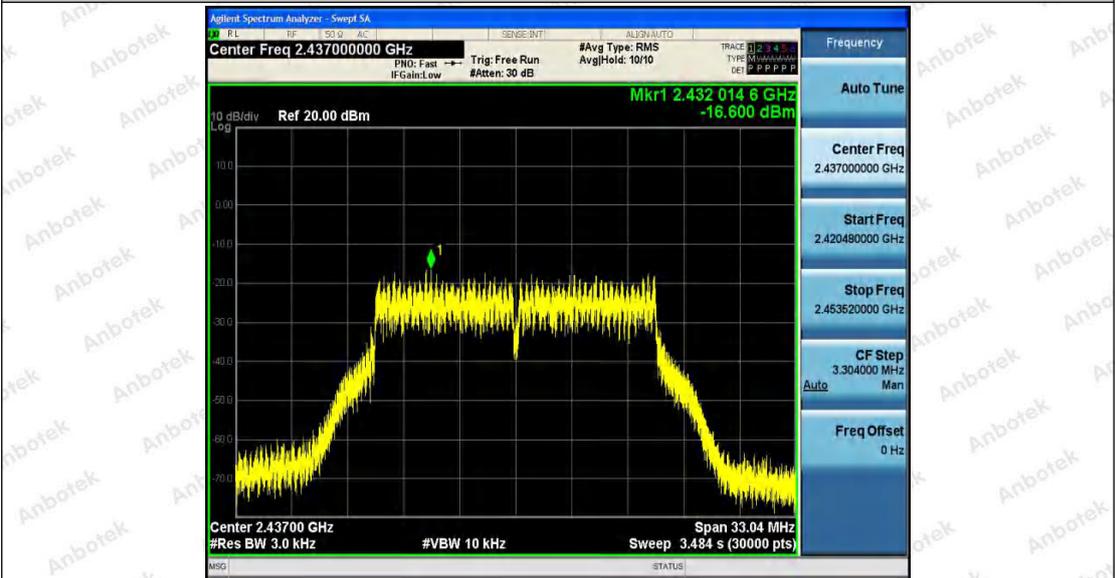
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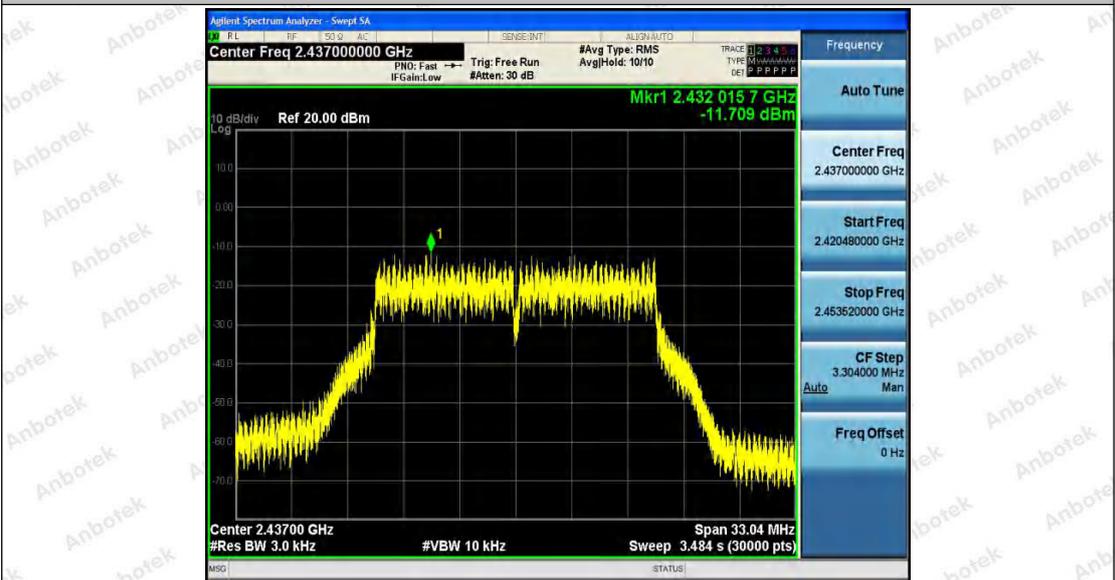
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11G\_Ant1\_2437



11G\_Ant2\_2437



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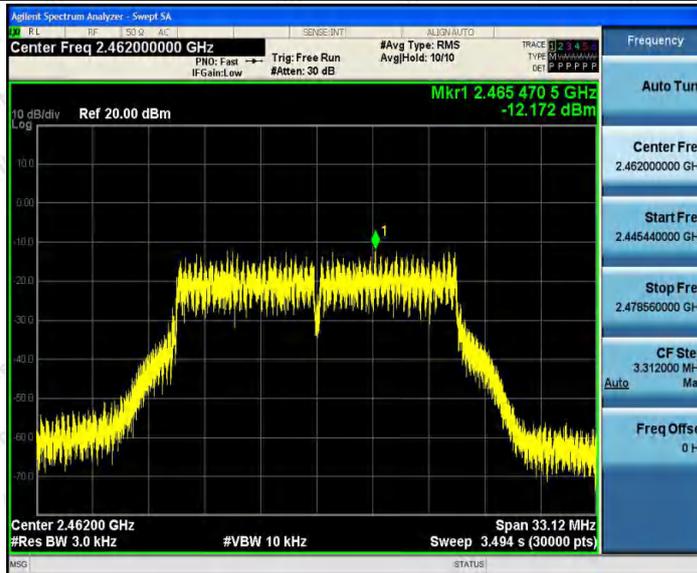
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11G\_Ant1\_2462



11G\_Ant2\_2462

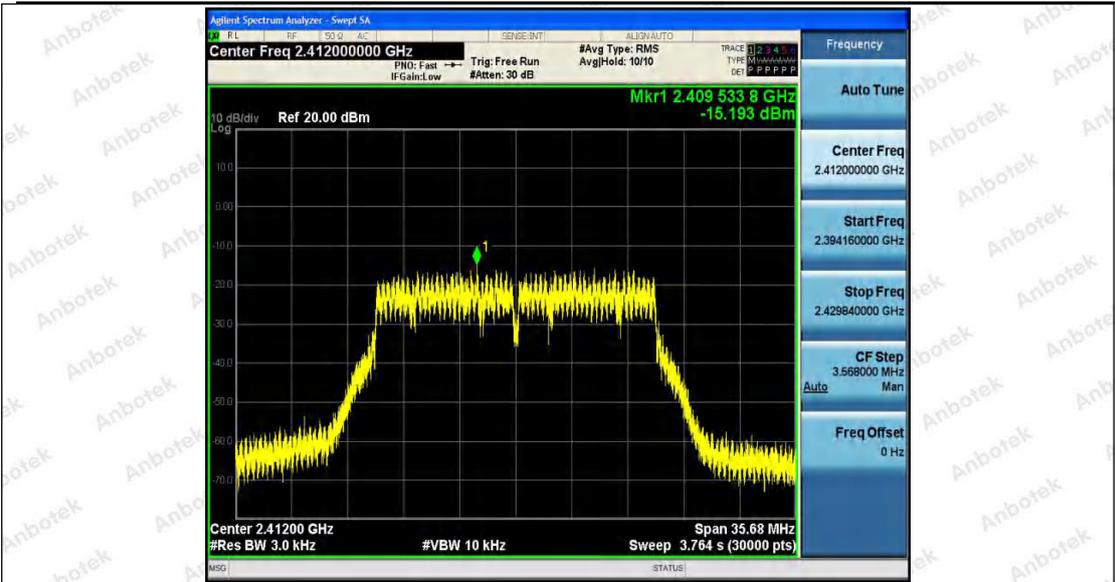


11N20\_Ant1\_2412

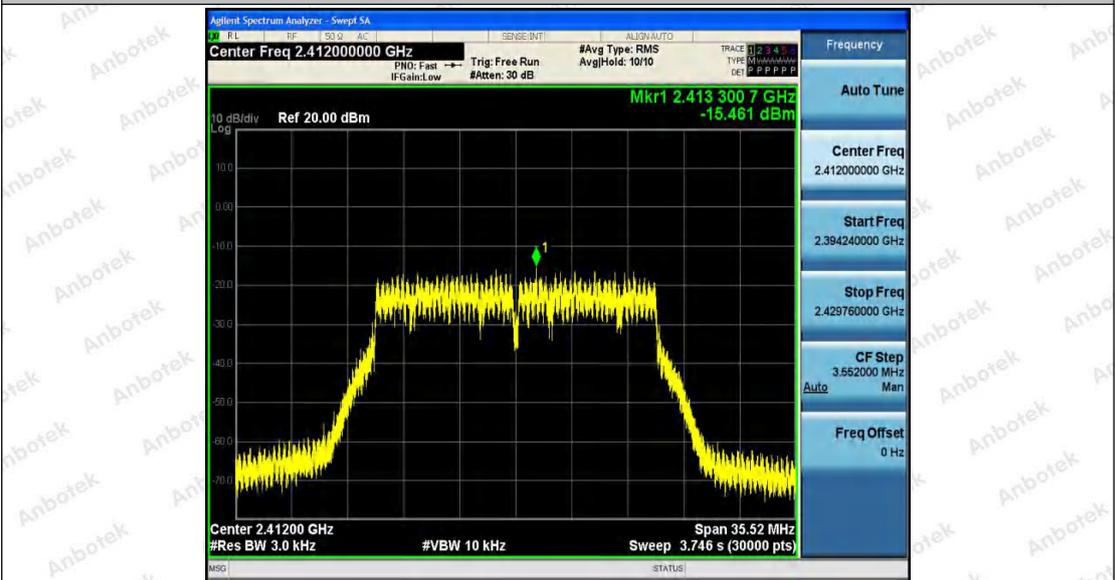
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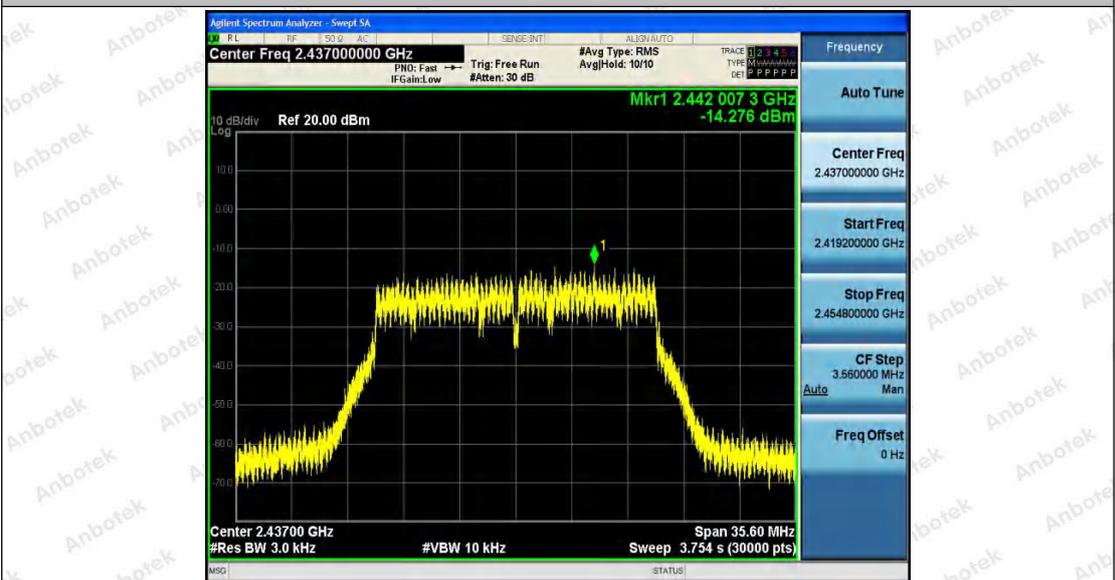
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11N20\_Ant2\_2412



11N20\_Ant1\_2437



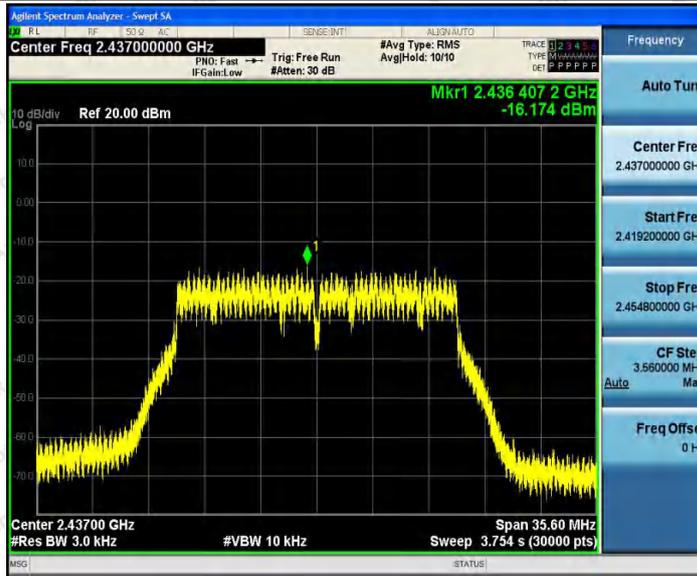
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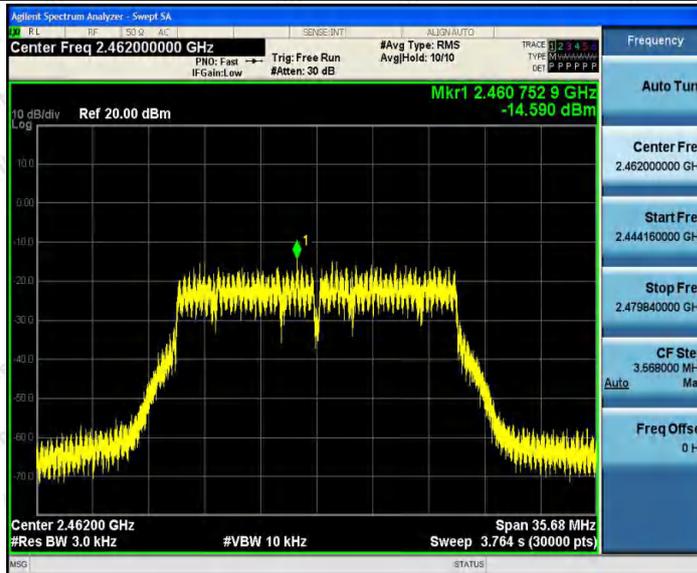
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11N20\_Ant2\_2437



11N20\_Ant1\_2462

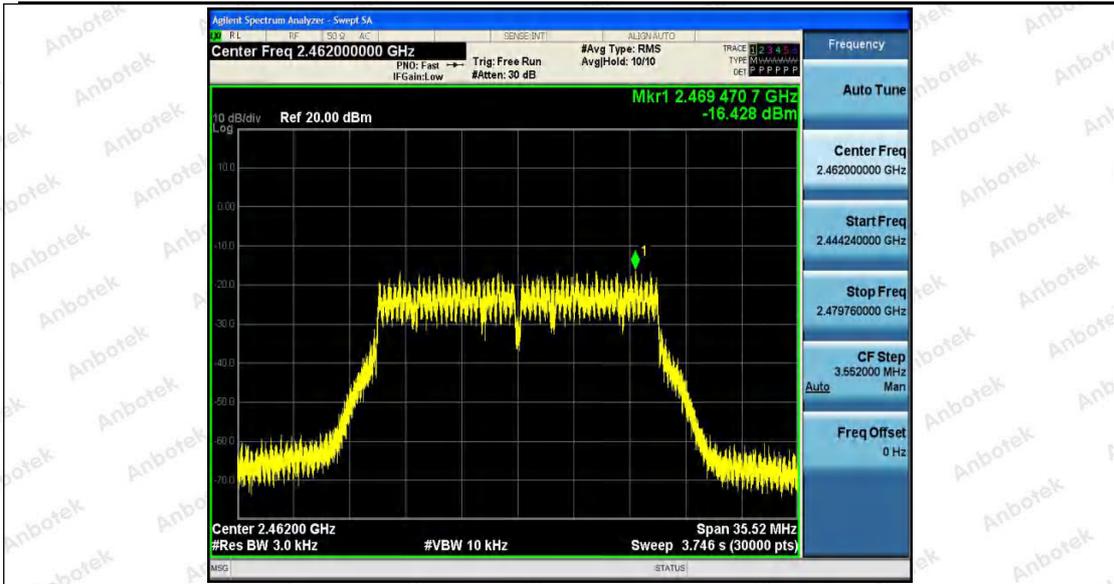


11N20\_Ant2\_2462

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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.80	-34.58	≤-10.2	PASS
	Ant2	Low	2412	9.13	-42.94	≤-10.87	PASS
	Ant1	High	2462	10.07	-42.97	≤-9.93	PASS
	Ant2	High	2462	8.19	-50.57	≤-11.81	PASS
11G	Ant1	Low	2412	-2.80	-47.26	≤-22.8	PASS
	Ant2	Low	2412	2.33	-37.23	≤-17.67	PASS
	Ant1	High	2462	-3.05	-53.03	≤-23.05	PASS
	Ant2	High	2462	1.86	-43.86	≤-18.14	PASS
11N20	Ant1	Low	2412	-0.93	-36.29	≤-20.93	PASS
	Ant2	Low	2412	-1.12	-41.15	≤-21.12	PASS
	Ant1	High	2462	-0.40	-45.66	≤-20.4	PASS
	Ant2	High	2462	-1.73	-50.06	≤-21.73	PASS

## Test Graphs



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11B\_Ant2\_High\_2462



11G\_Ant1\_Low\_2412



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11G\_Ant2\_Low\_2412



11G\_Ant1\_High\_2462



11G\_Ant2\_High\_2462

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11N20\_Ant1\_Low\_2412



11N20\_Ant2\_Low\_2412



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11N20\_Ant1\_High\_2462



11N20\_Ant2\_High\_2462



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## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	8.27	8.27	---	PASS	
			30~1000	8.27	-69.25	≤-11.73	PASS	
			1000~26500	8.27	-53.56	≤-11.73	PASS	
	Ant2	2412	Reference	8.41	8.41	---	PASS	
			30~1000	8.41	-70.15	≤-11.59	PASS	
			1000~26500	8.41	-55.24	≤-11.59	PASS	
	Ant1	2437	Reference	9.27	9.27	---	PASS	
			30~1000	9.27	-70.25	≤-10.73	PASS	
			1000~26500	9.27	-54.37	≤-10.73	PASS	
	Ant2	2437	Reference	7.66	7.66	---	PASS	
			30~1000	7.66	-70.19	≤-12.34	PASS	
			1000~26500	7.66	-55.54	≤-12.34	PASS	
	Ant1	2462	Reference	10.22	10.22	---	PASS	
			30~1000	10.22	-69.85	≤-9.78	PASS	
			1000~26500	10.22	-53.58	≤-9.78	PASS	
	Ant2	2462	Reference	8.64	8.64	---	PASS	
			30~1000	8.64	-69.98	≤-11.36	PASS	
			1000~26500	8.64	-55.55	≤-11.36	PASS	
	11G	Ant1	2412	Reference	-3.41	-3.41	---	PASS
				30~1000	-3.41	-70.88	≤-23.41	PASS
				1000~26500	-3.41	-55.4	≤-23.41	PASS
		Ant2	2412	Reference	2.54	2.54	---	PASS
				30~1000	2.54	-69.63	≤-17.46	PASS
				1000~26500	2.54	-54.54	≤-17.46	PASS
Ant1		2437	Reference	-3.37	-3.37	---	PASS	
			30~1000	-3.37	-70.09	≤-23.37	PASS	
			1000~26500	-3.37	-54.84	≤-23.37	PASS	
Ant2		2437	Reference	1.71	1.71	---	PASS	
			30~1000	1.71	-69.71	≤-18.29	PASS	
			1000~26500	1.71	-55.11	≤-18.29	PASS	
Ant1		2462	Reference	-2.90	-2.90	---	PASS	
			30~1000	-2.90	-70.09	≤-22.9	PASS	
			1000~26500	-2.90	-55.7	≤-22.9	PASS	
Ant2		2462	Reference	1.78	1.78	---	PASS	
			30~1000	1.78	-69.94	≤-18.22	PASS	
			1000~26500	1.78	-54.94	≤-18.22	PASS	
11N20		Ant1	2412	Reference	-1.07	-1.07	---	PASS

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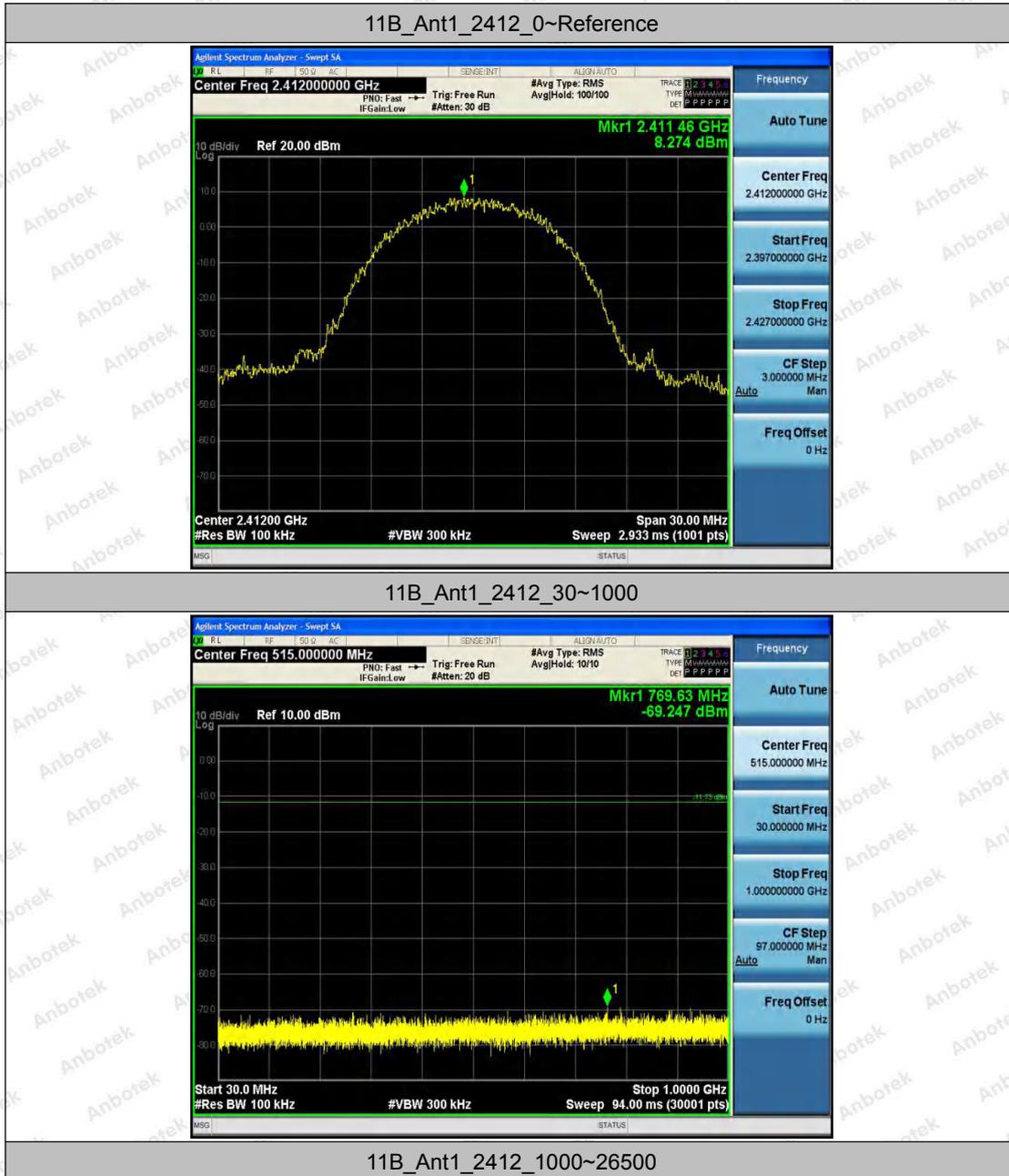
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			30~1000	-1.07	-69.88	≤-21.07	PASS
			1000~26500	-1.07	-55.72	≤-21.07	PASS
Ant2	2412	Reference	-1.23	-1.23	---	PASS	
		30~1000	-1.23	-70.58	≤-21.23	PASS	
		1000~26500	-1.23	-55.13	≤-21.23	PASS	
Ant1	2437	Reference	-0.68	-0.68	---	PASS	
		30~1000	-0.68	-70.72	≤-20.68	PASS	
		1000~26500	-0.68	-55.71	≤-20.68	PASS	
Ant2	2437	Reference	-1.77	-1.77	---	PASS	
		30~1000	-1.77	-70.83	≤-21.77	PASS	
		1000~26500	-1.77	-55.01	≤-21.77	PASS	
Ant1	2462	Reference	-0.39	-0.39	---	PASS	
		30~1000	-0.39	-69.74	≤-20.39	PASS	
		1000~26500	-0.39	-55.73	≤-20.39	PASS	
Ant2	2462	Reference	-1.65	-1.65	---	PASS	
		30~1000	-1.65	-70.48	≤-21.65	PASS	
		1000~26500	-1.65	-55.1	≤-21.65	PASS	

## Test Graphs

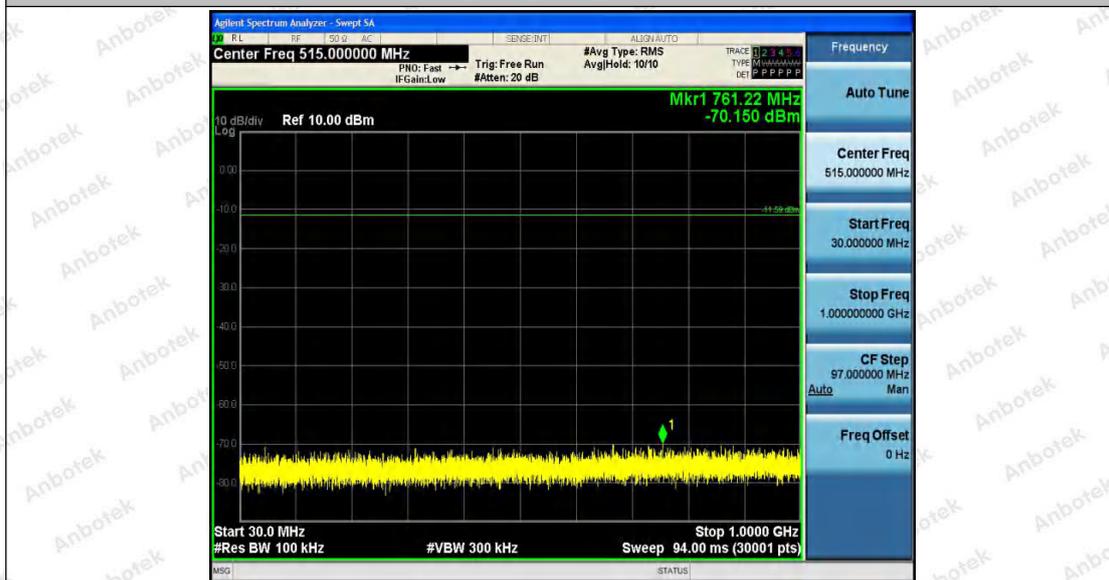




11B\_Ant2\_2412\_0~Reference



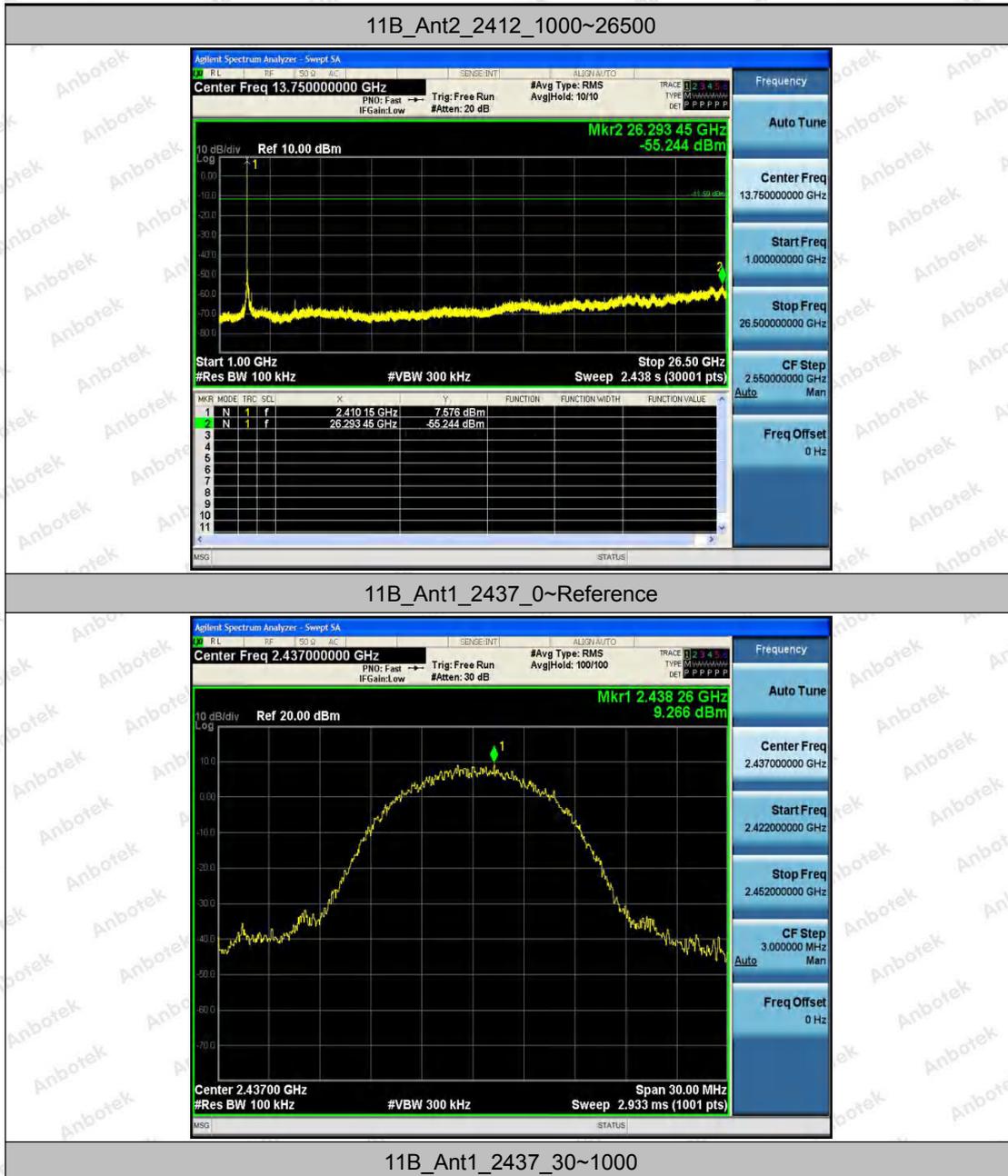
11B\_Ant2\_2412\_30~1000



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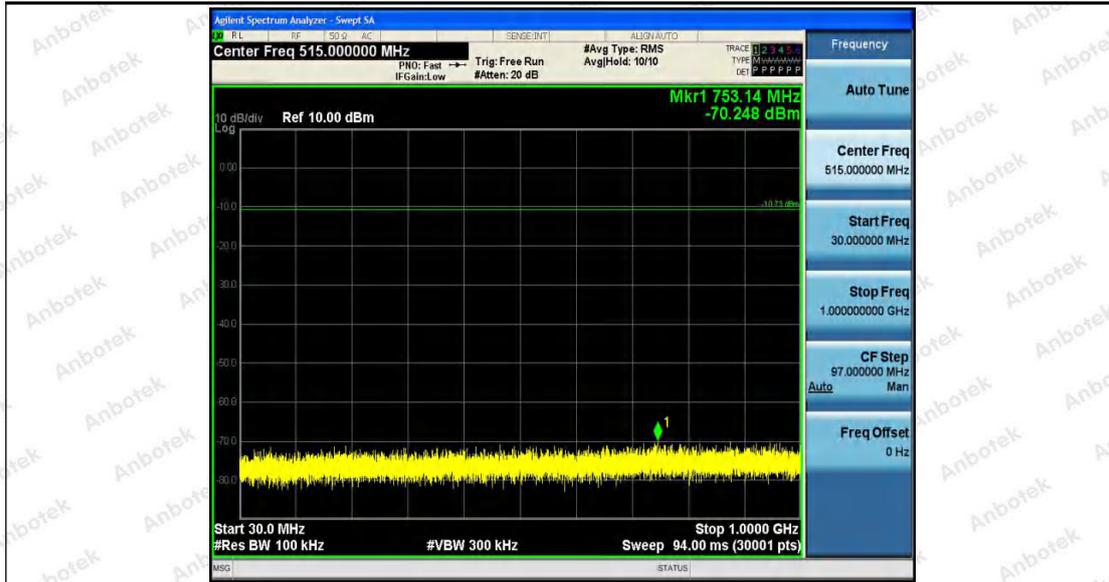
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11B\_Ant1\_2437\_1000~26500



11B\_Ant2\_2437\_0~Reference

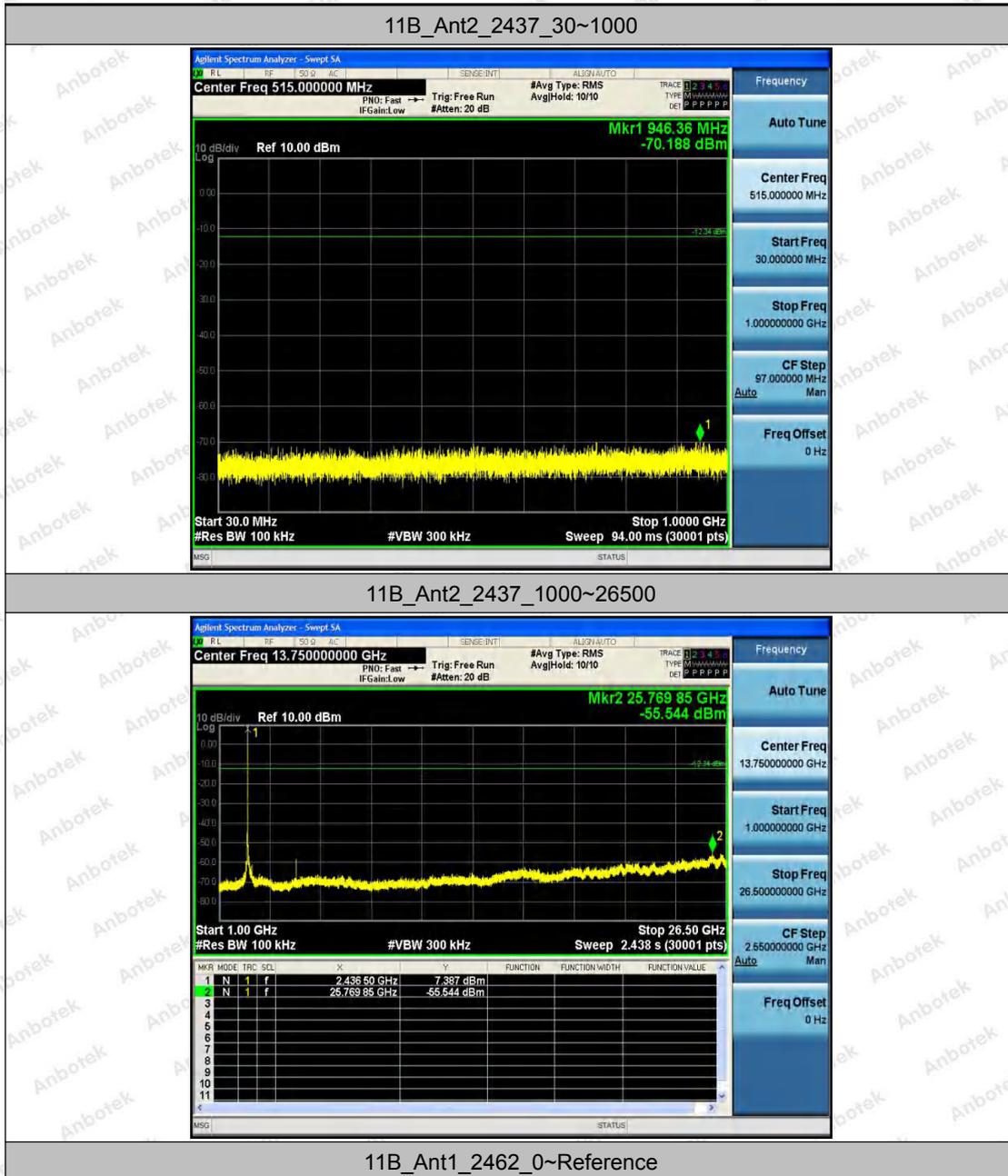


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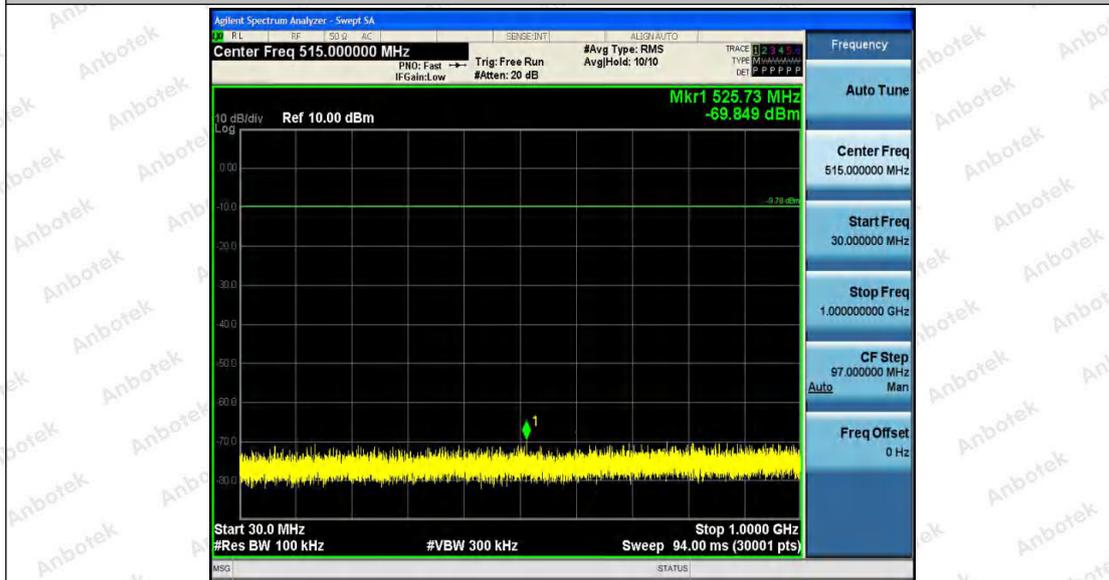
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

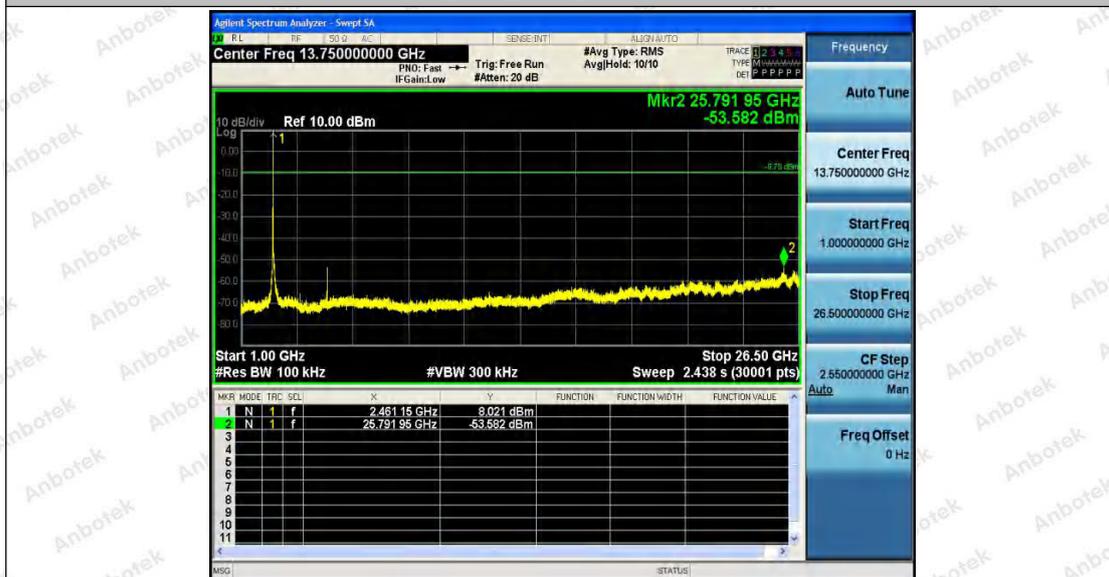
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11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500

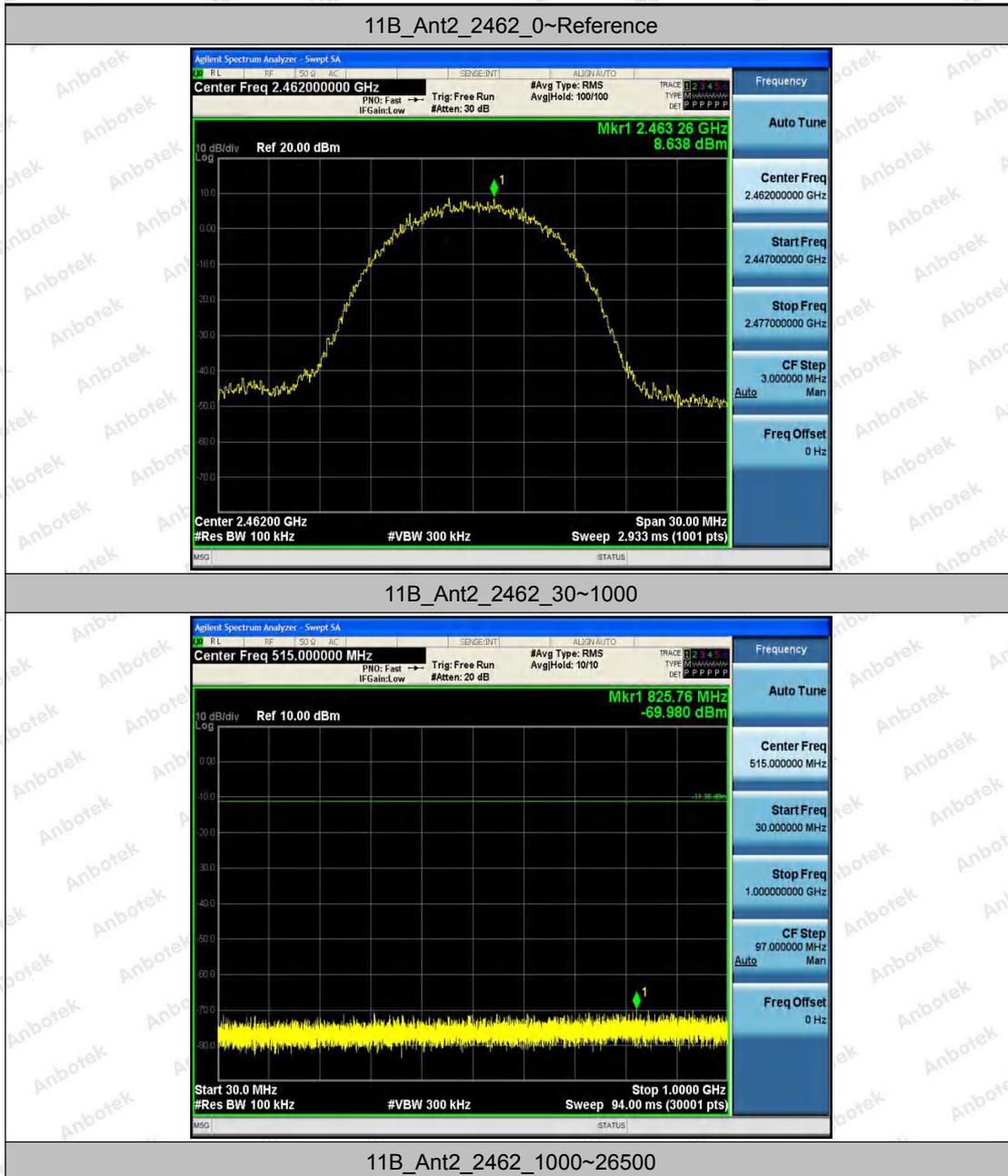


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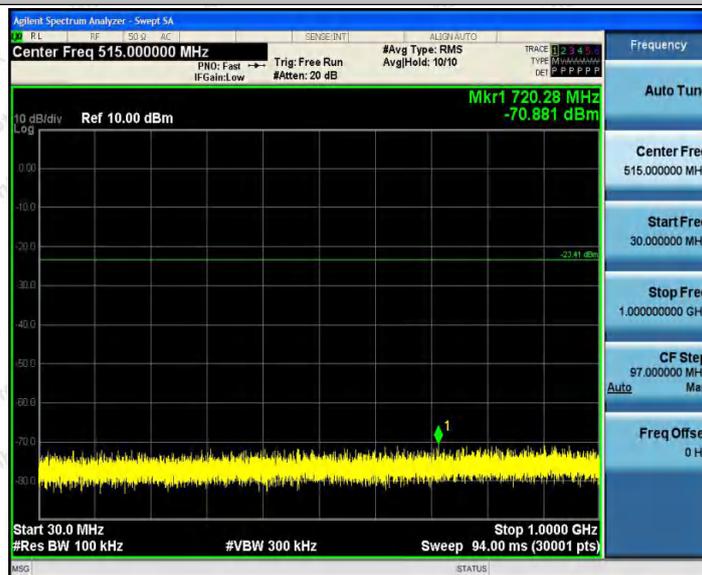
Hotline  
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11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000

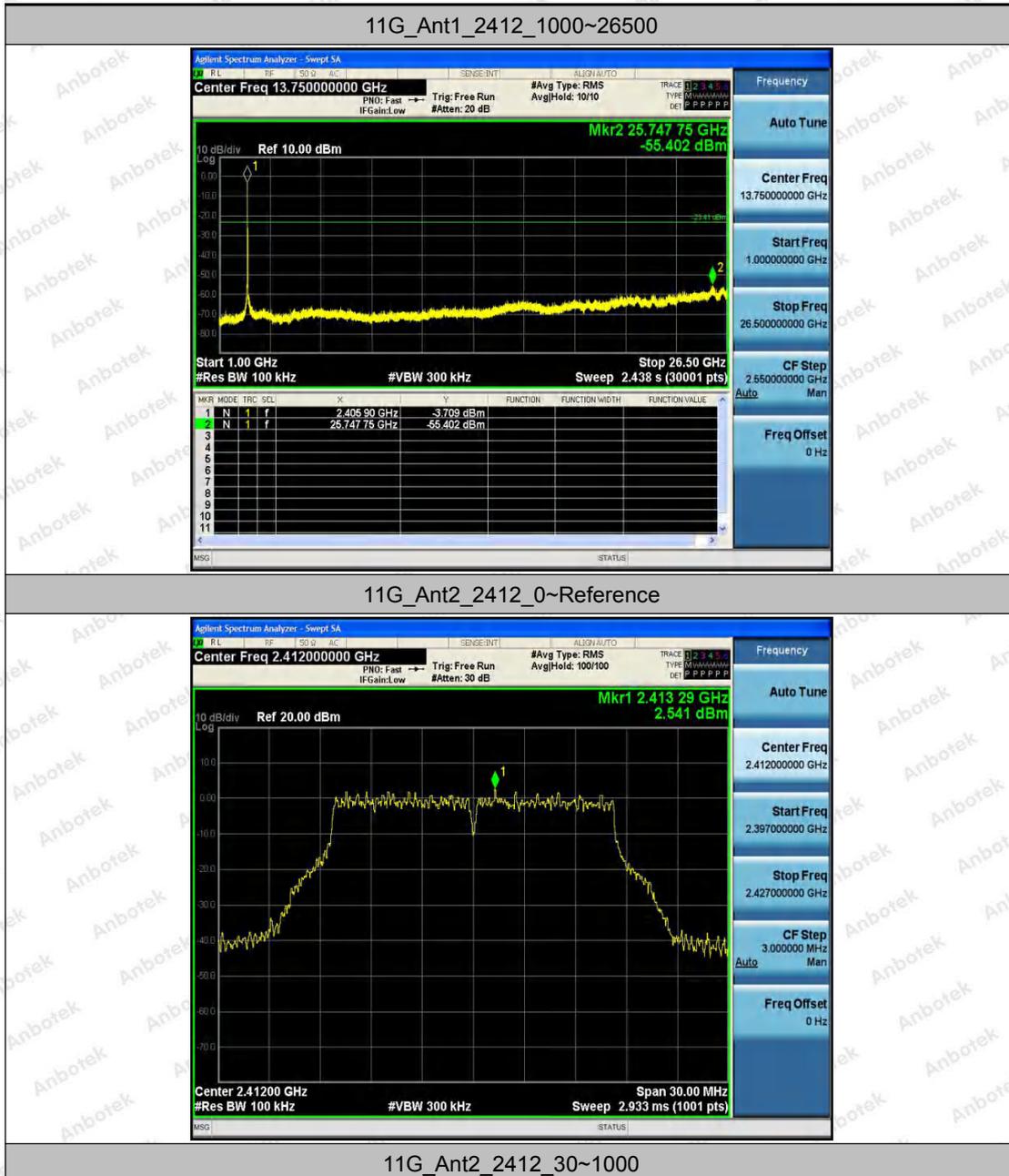


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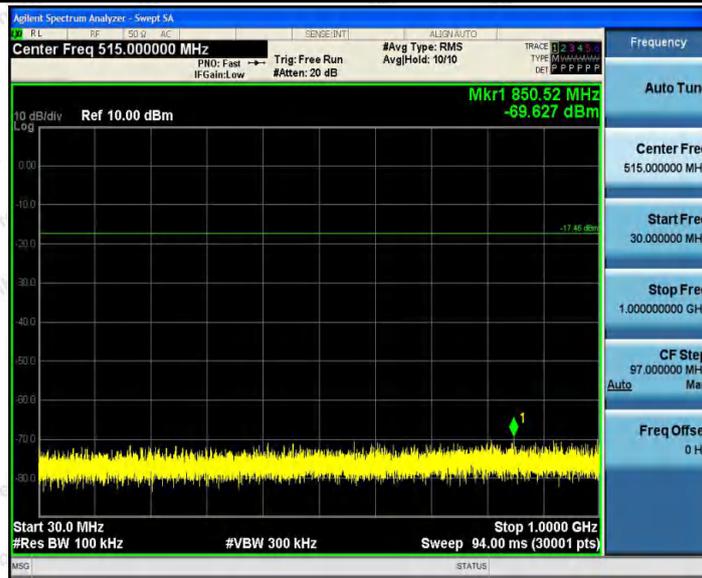
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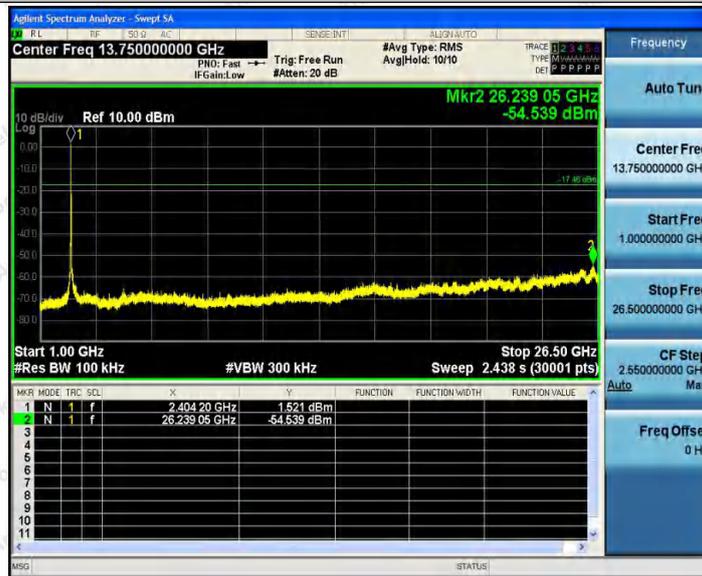
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11G\_Ant2\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference

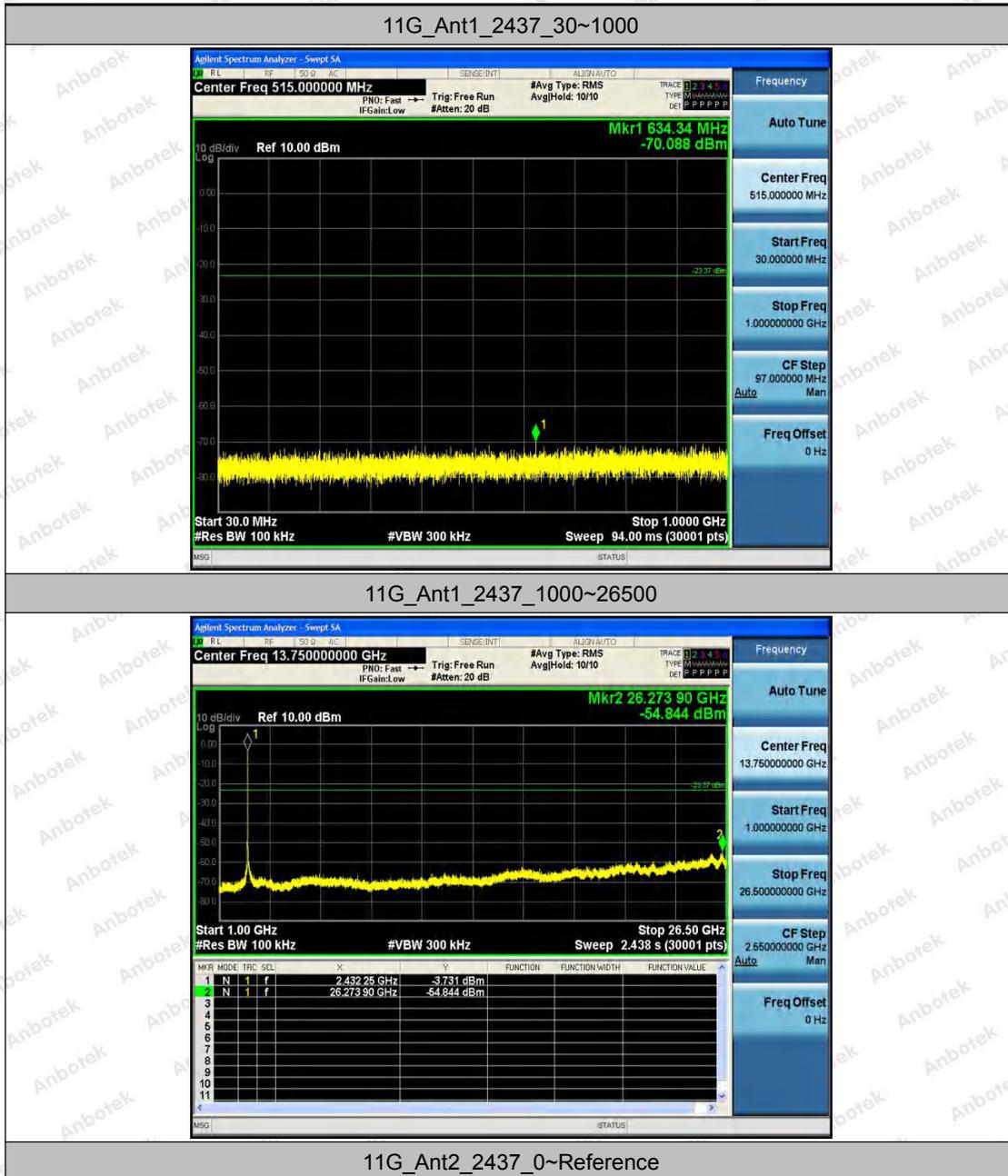


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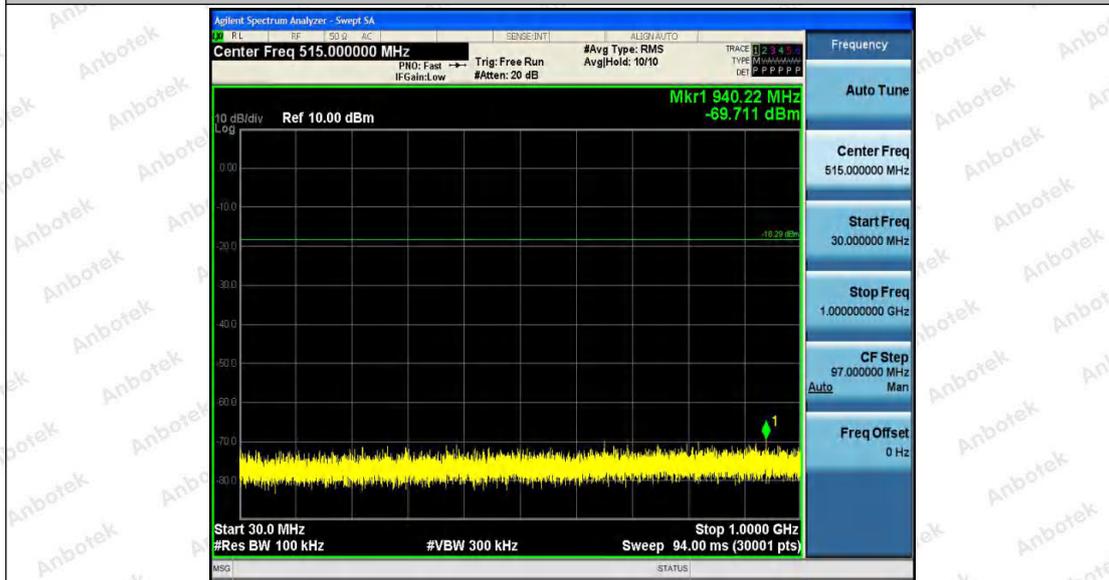
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

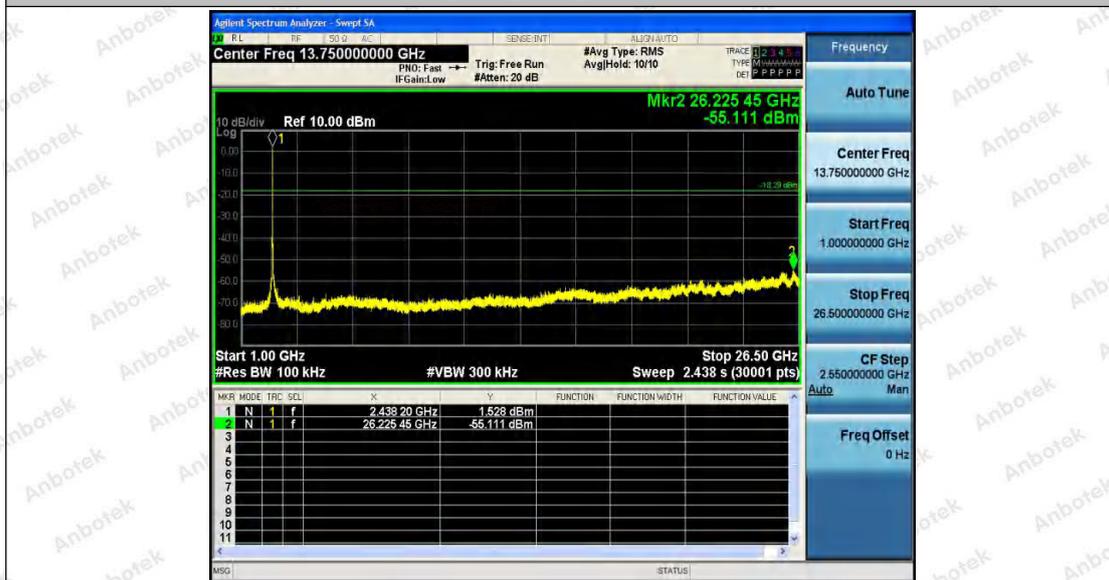
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11G\_Ant2\_2437\_30~1000



11G\_Ant2\_2437\_1000~26500

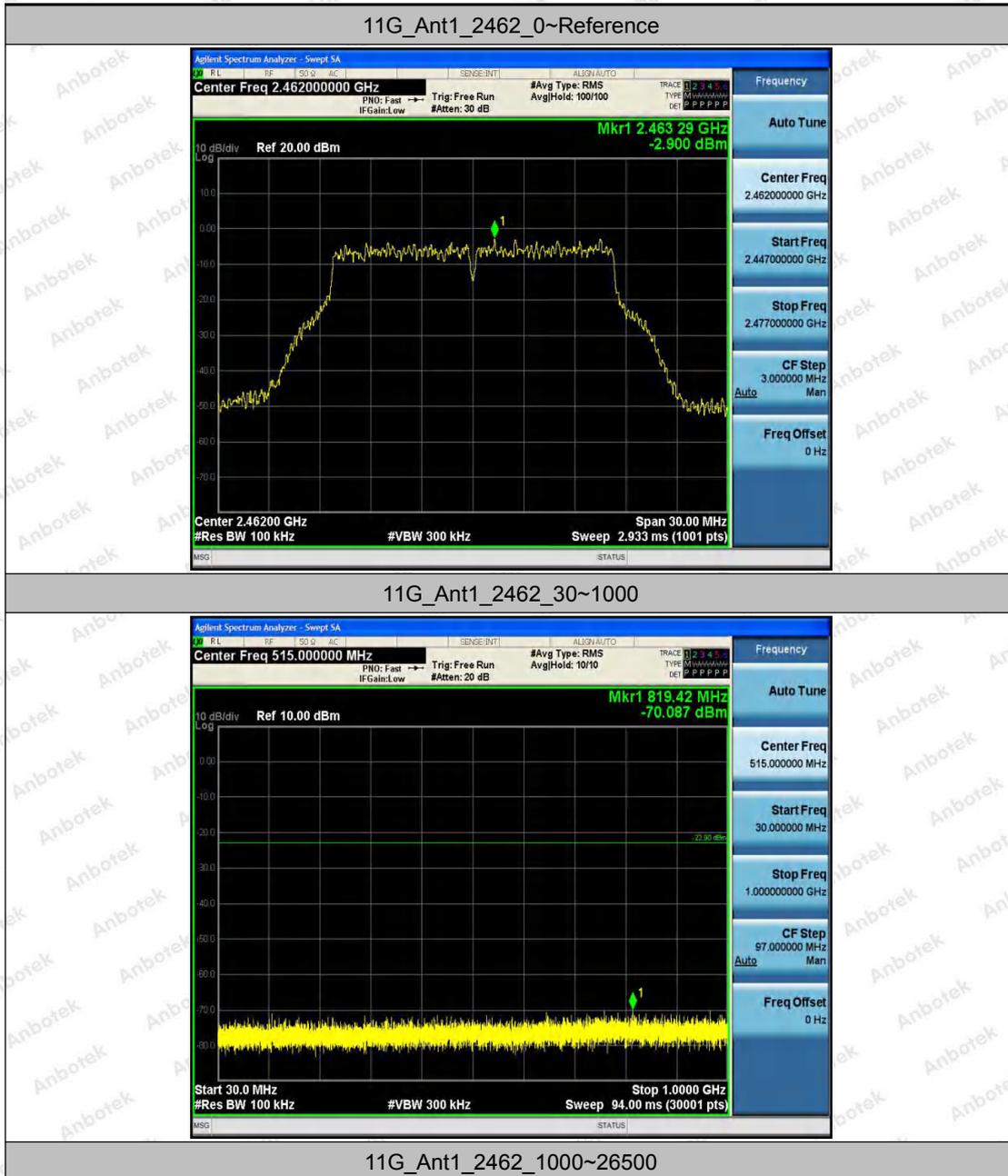


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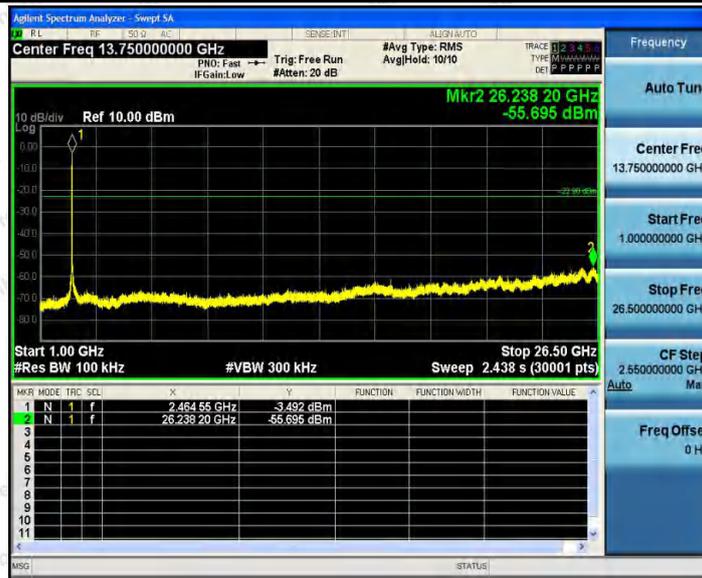
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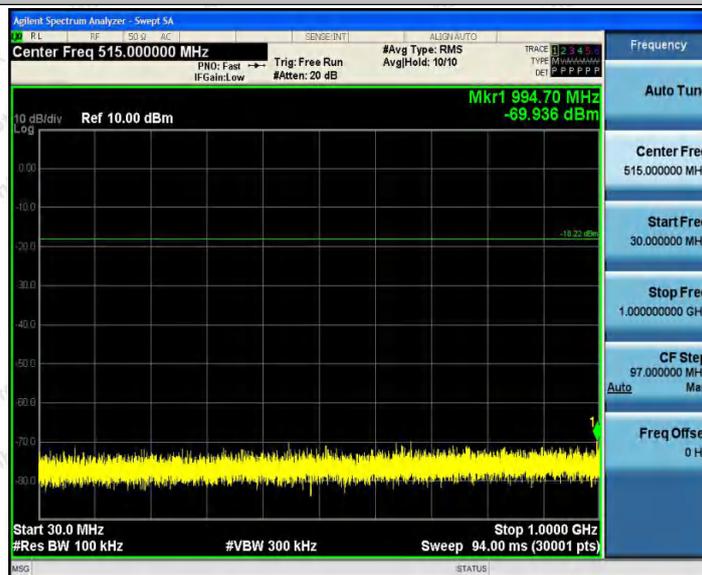
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11G\_Ant2\_2462\_0~Reference



11G\_Ant2\_2462\_30~1000

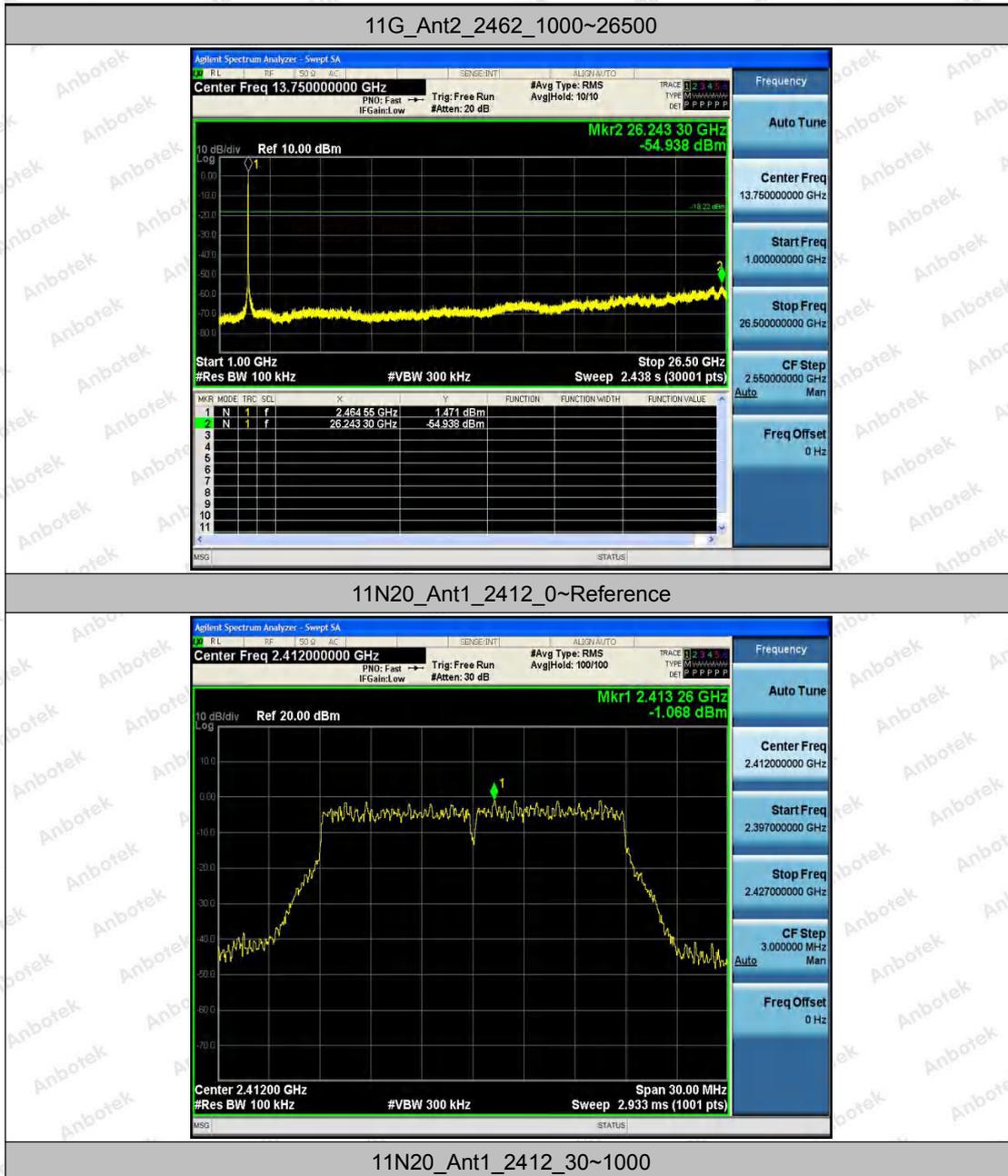


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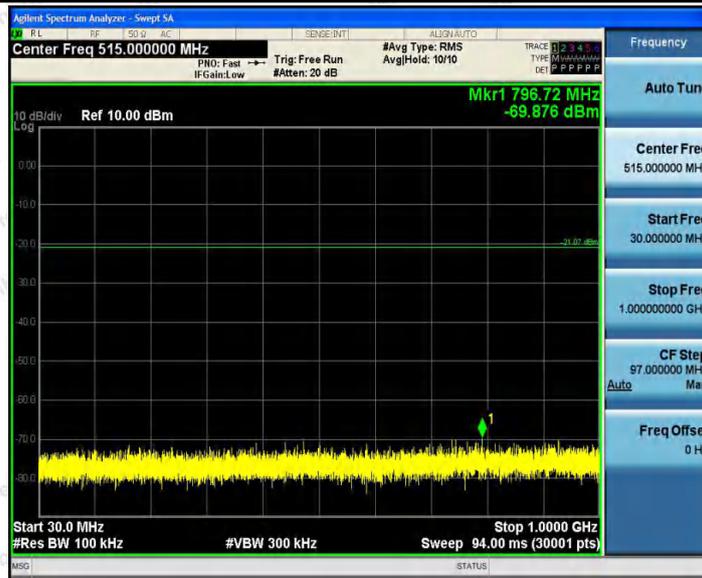
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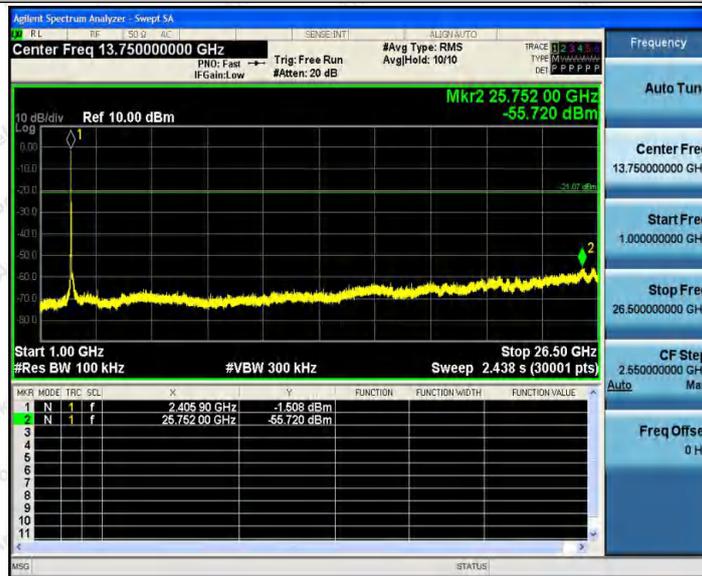
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11N20\_Ant1\_2412\_1000~26500



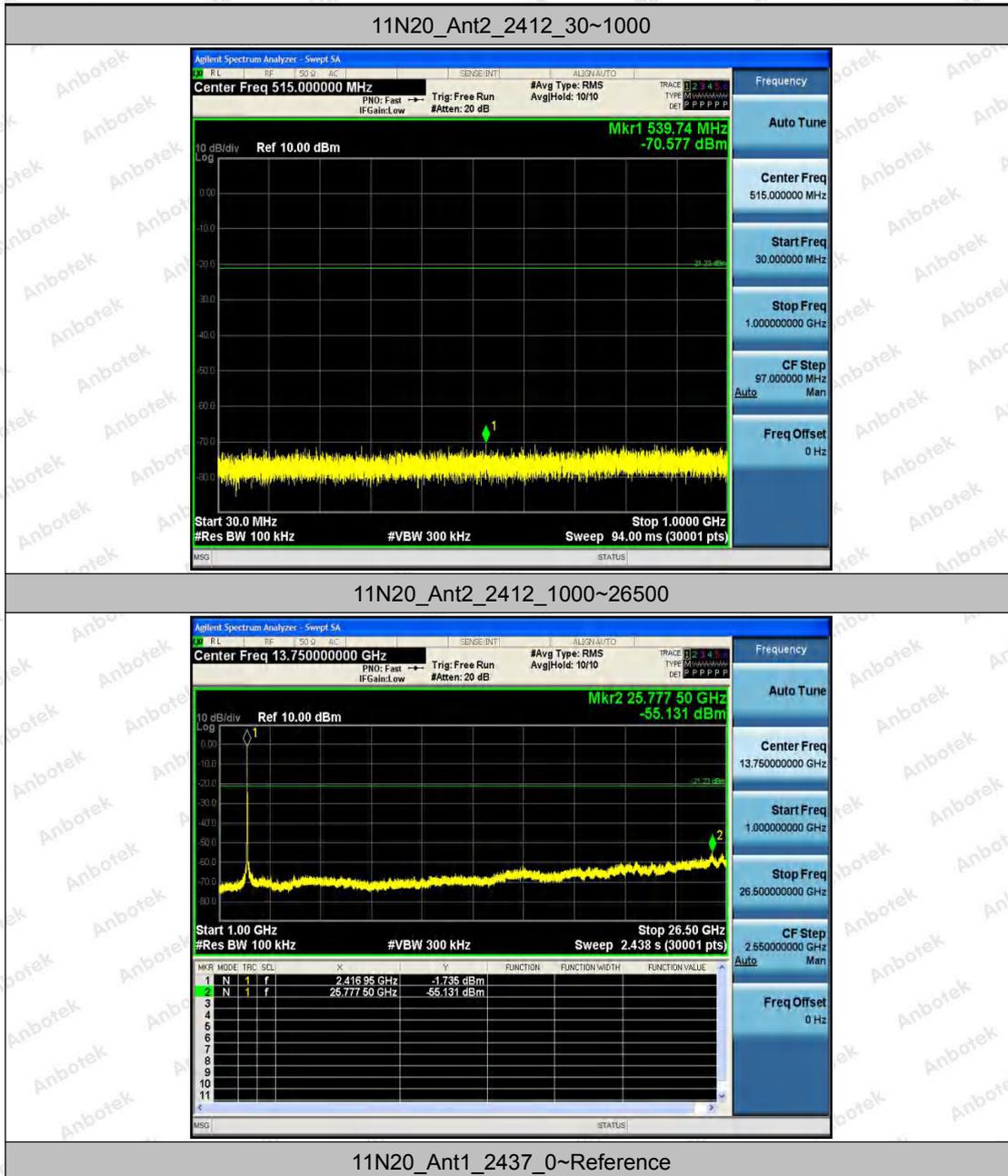
11N20\_Ant2\_2412\_0~Reference



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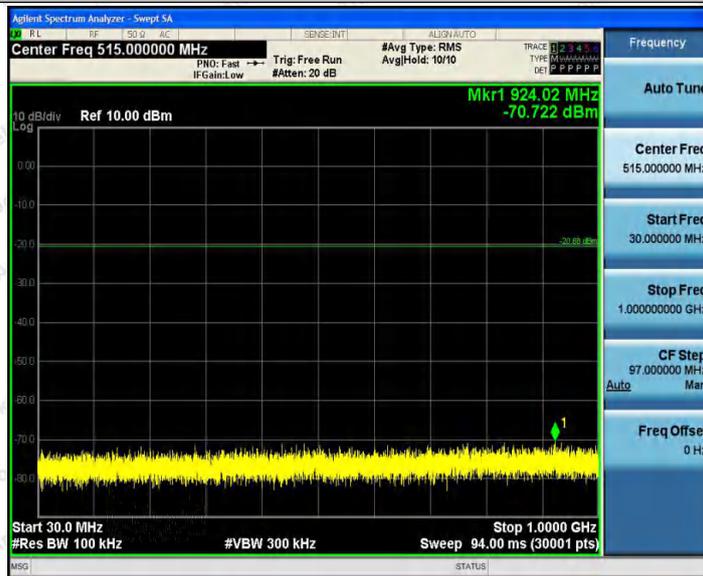
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11N20\_Ant1\_2437\_30~1000



11N20\_Ant1\_2437\_1000~26500

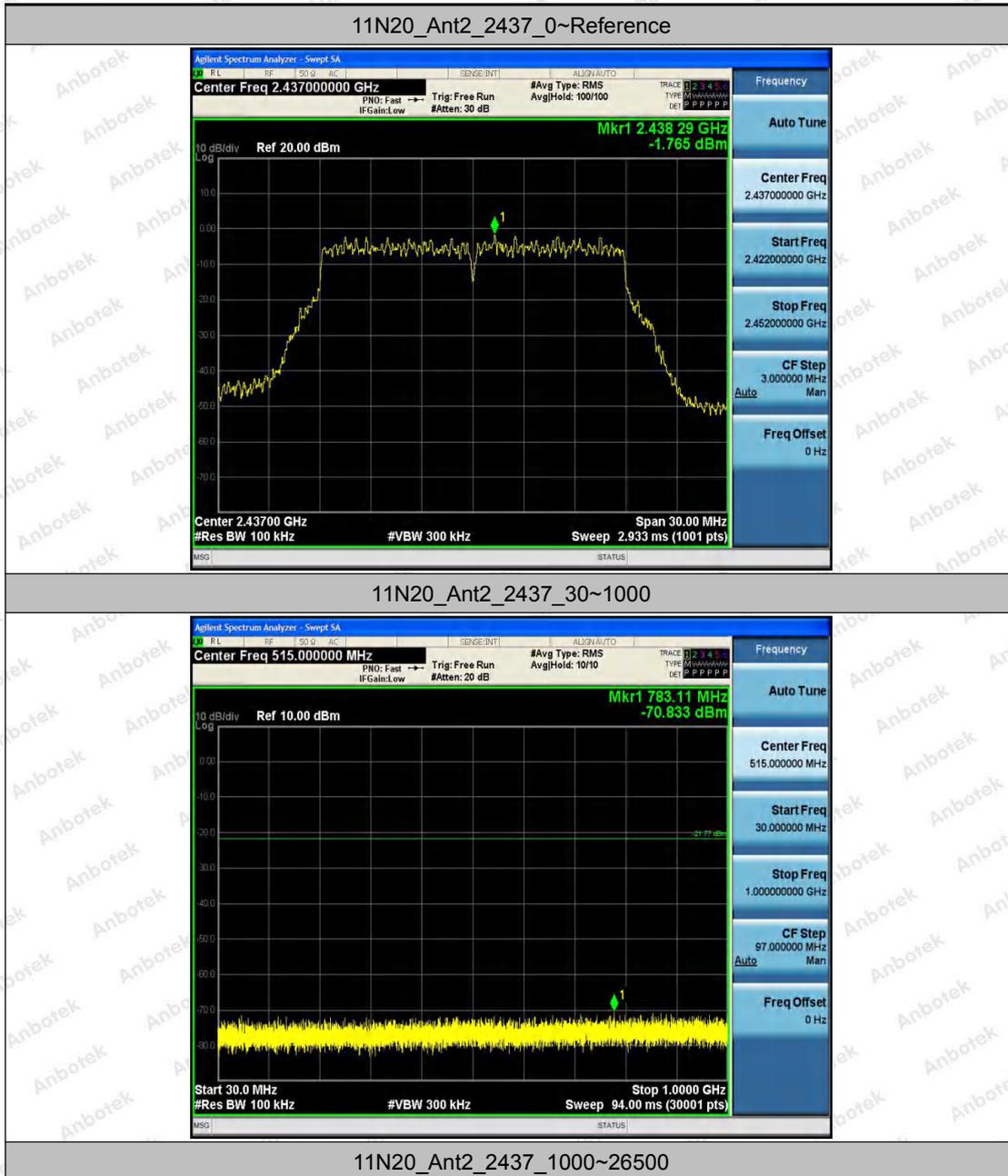


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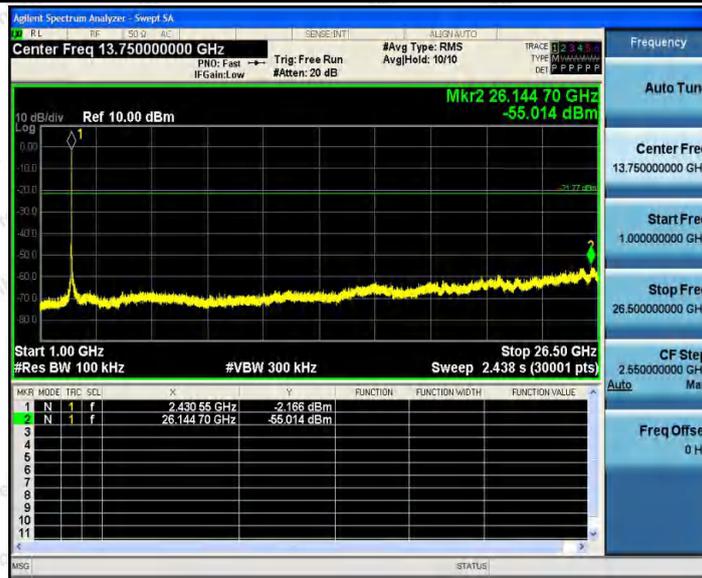
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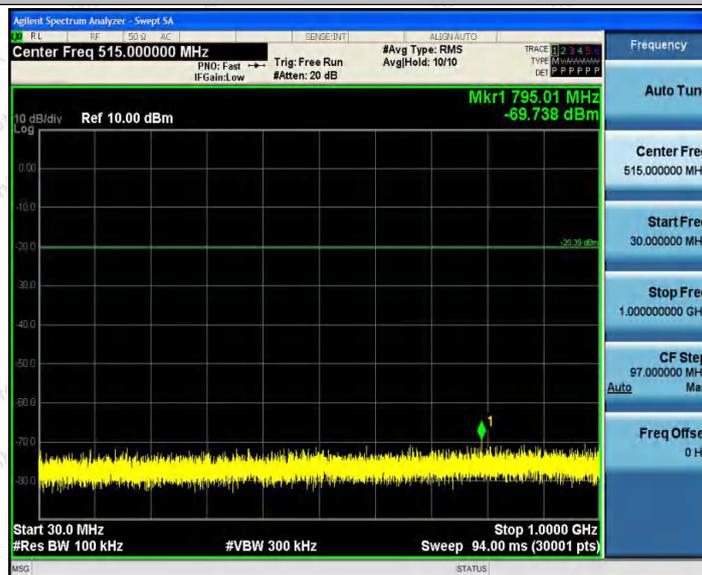
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11N20\_Ant1\_2462\_0~Reference



11N20\_Ant1\_2462\_30~1000

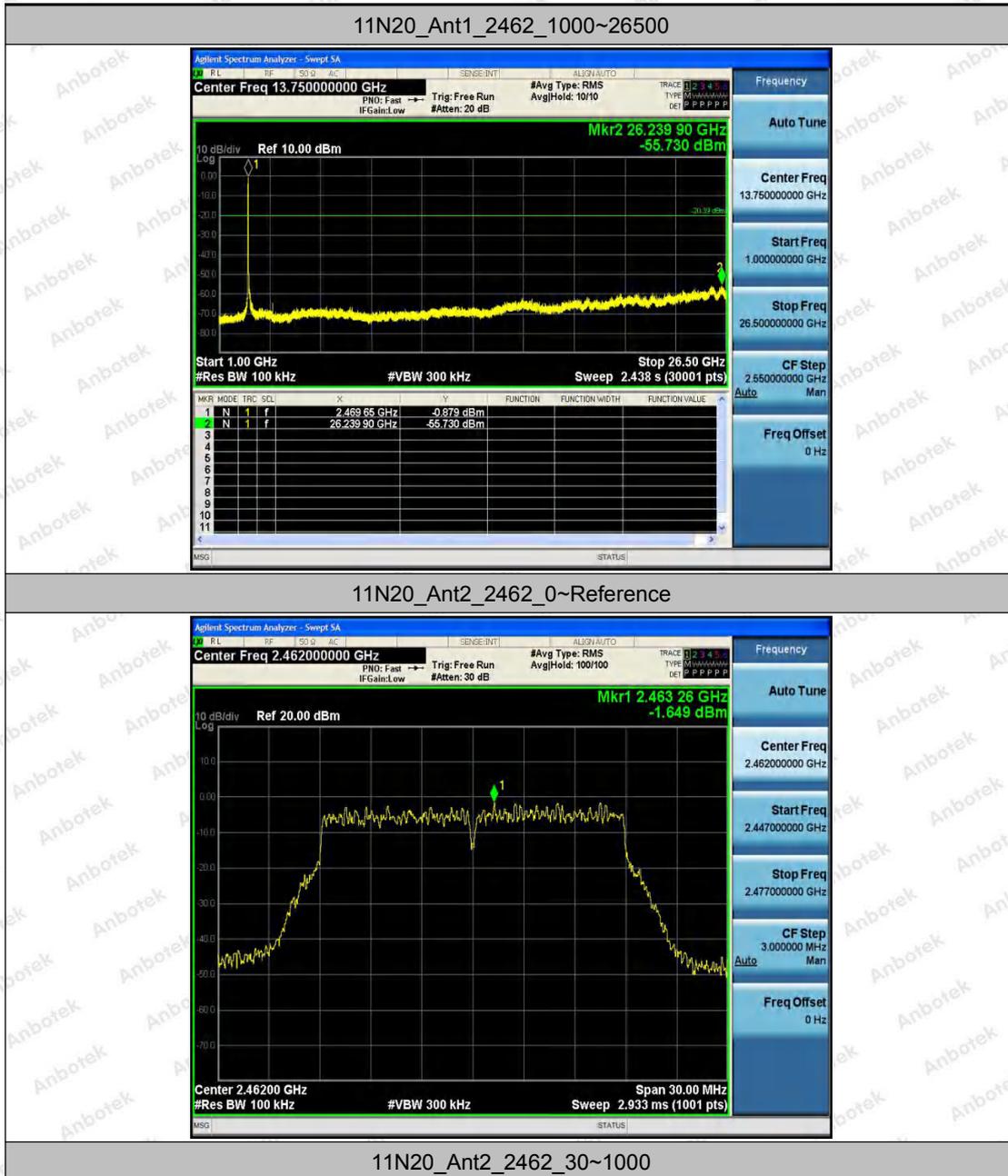


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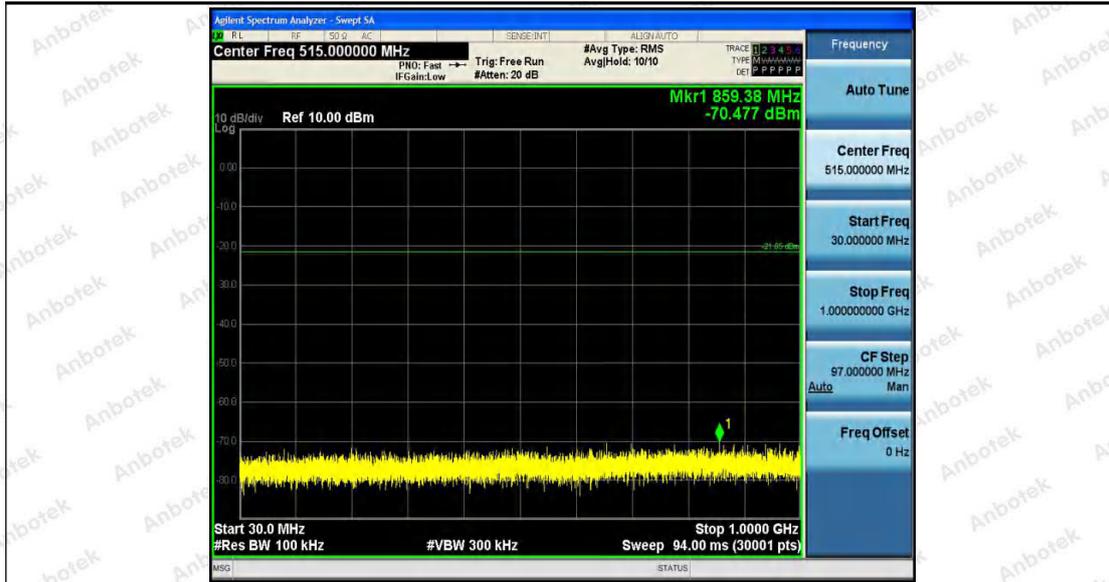


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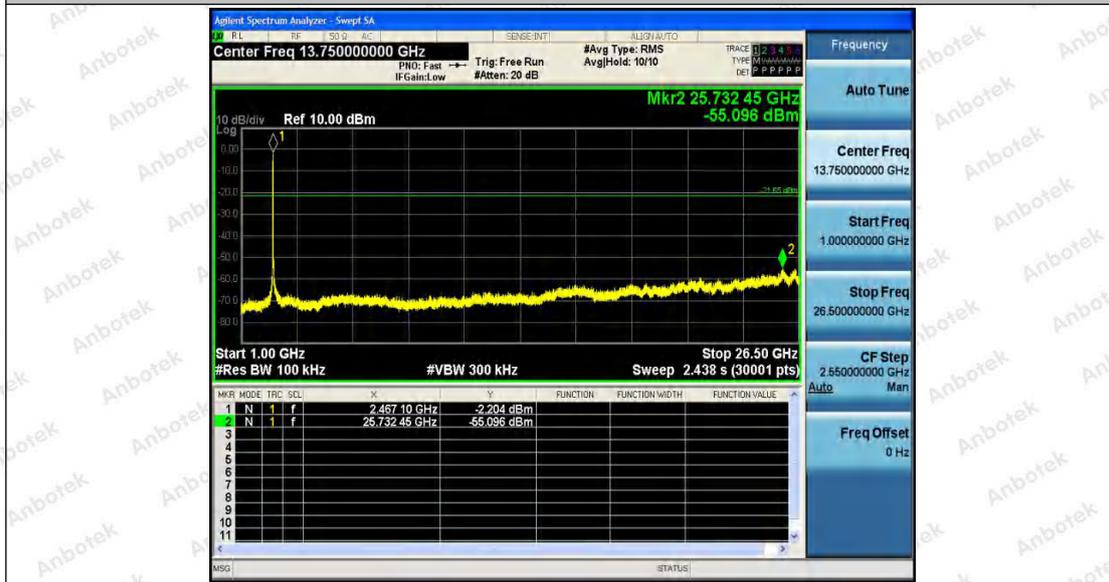
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11N20\_Ant2\_2462\_1000~26500



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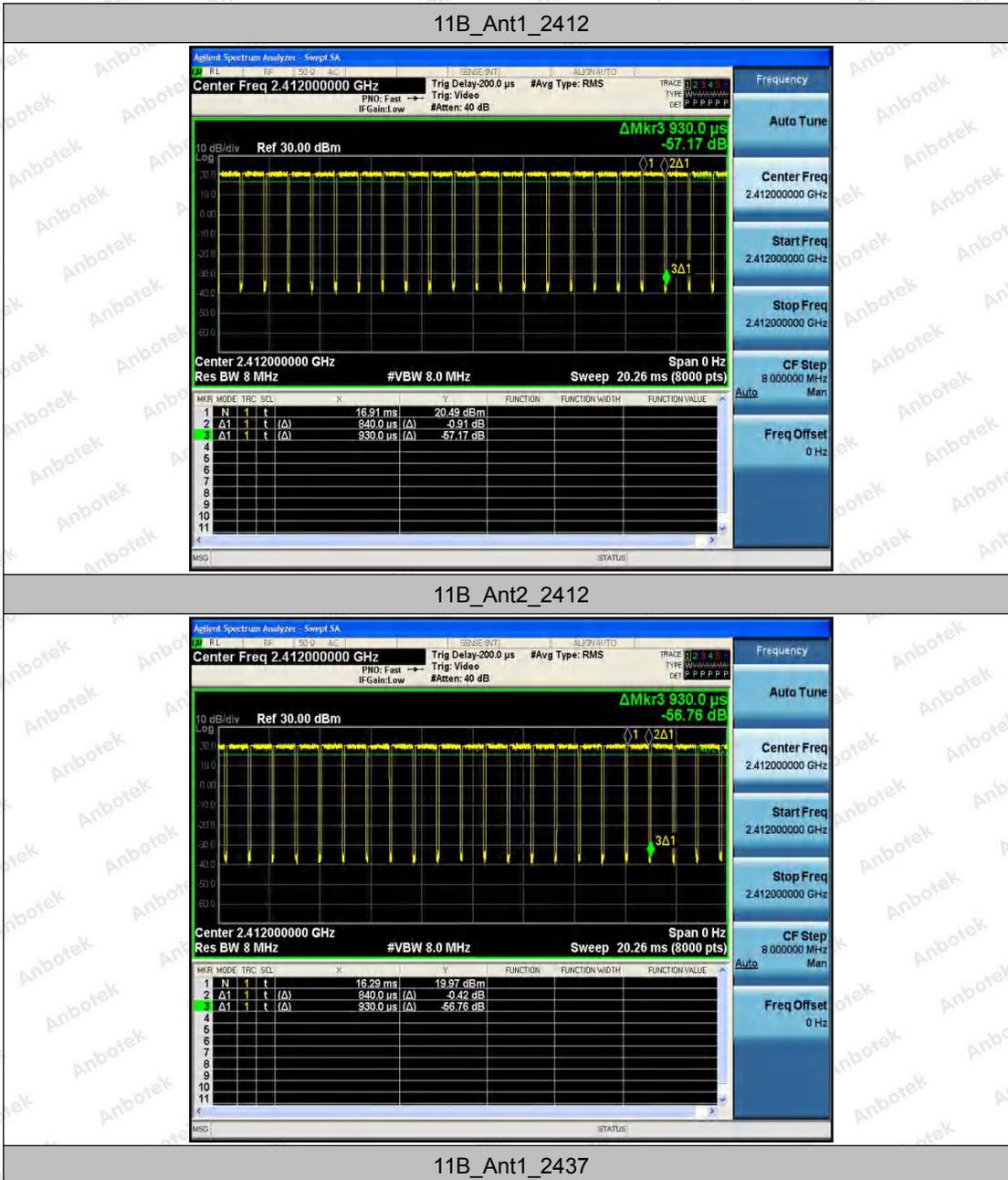
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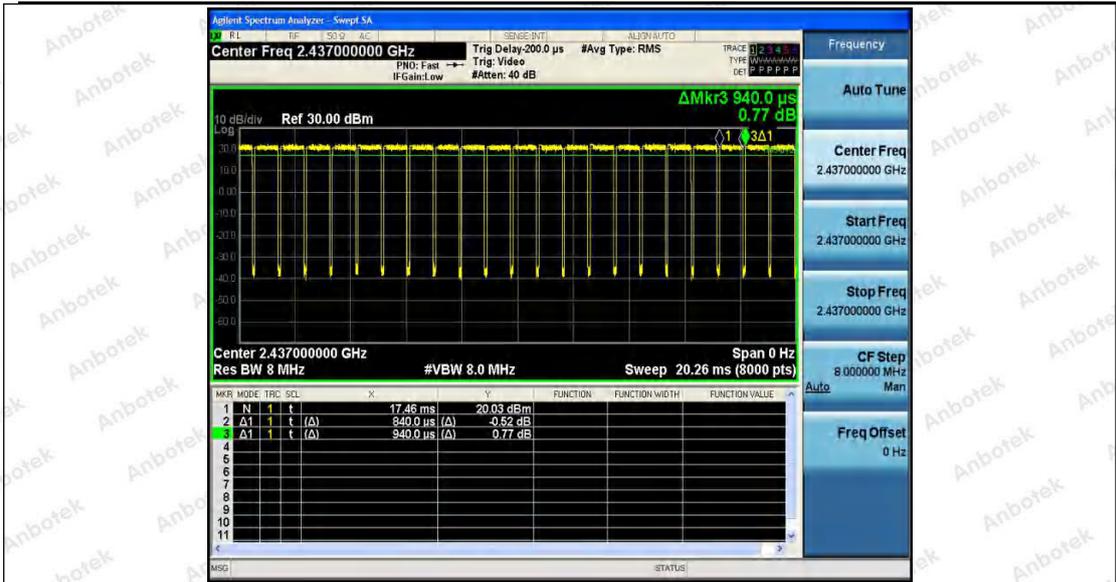
## Appendix G: Duty Cycle

### Test Result

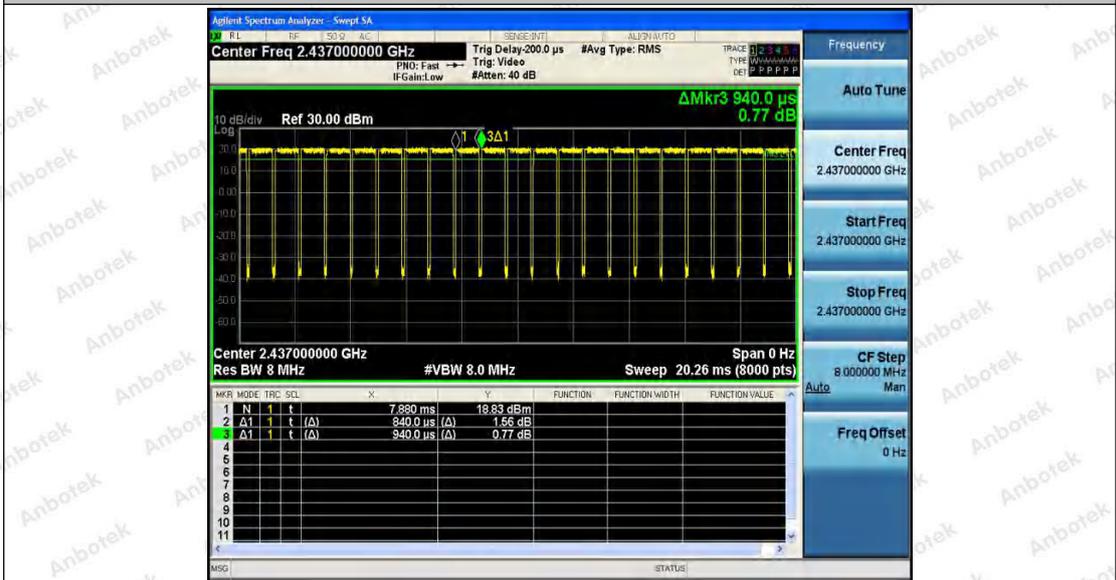
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	0.84	0.93	90.32	---	PASS
	Ant2	2412	0.84	0.93	90.32	---	PASS
	Ant1	2437	0.84	0.94	89.36	---	PASS
	Ant2	2437	0.84	0.94	89.36	---	PASS
	Ant1	2462	0.84	0.94	89.36	---	PASS
	Ant2	2462	0.85	0.94	90.43	---	PASS
11G	Ant1	2412	0.25	0.35	71.43	---	PASS
	Ant2	2412	0.25	0.35	71.43	---	PASS
	Ant1	2437	0.26	0.36	72.22	---	PASS
	Ant2	2437	0.25	0.35	71.43	---	PASS
	Ant1	2462	0.25	0.36	69.44	---	PASS
	Ant2	2462	0.25	0.35	71.43	---	PASS
11N20	Ant1	2412	0.16	0.26	61.54	---	PASS
	Ant2	2412	0.17	0.27	62.96	---	PASS
	Ant1	2437	0.16	0.26	61.54	---	PASS
	Ant2	2437	0.17	0.27	62.96	---	PASS
	Ant1	2462	0.16	0.26	61.54	---	PASS
	Ant2	2462	0.16	0.26	61.54	---	PASS

## Test Graphs

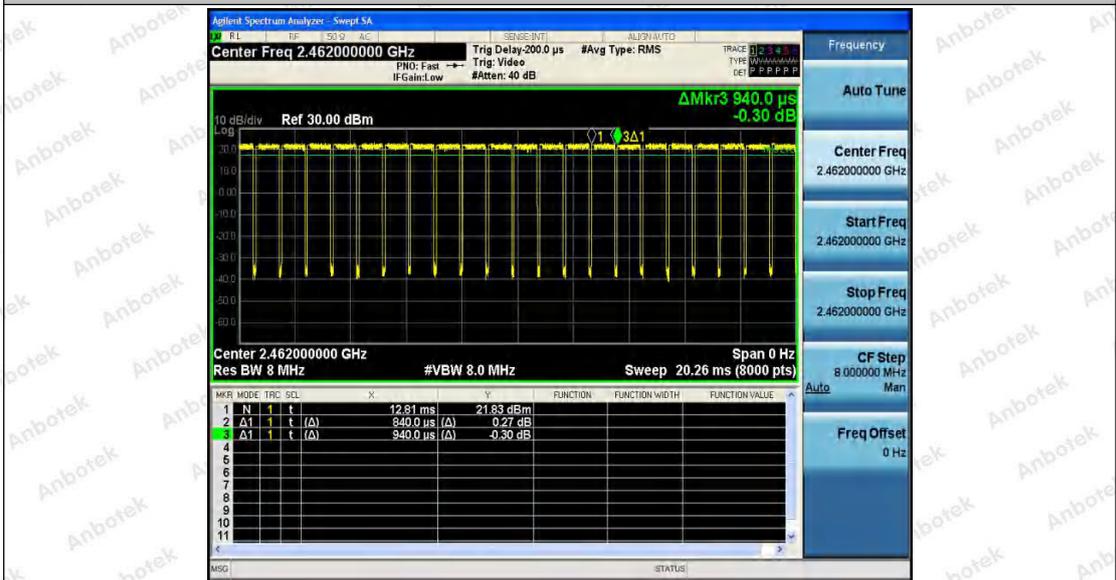




11B\_Ant2\_2437



11B\_Ant1\_2462

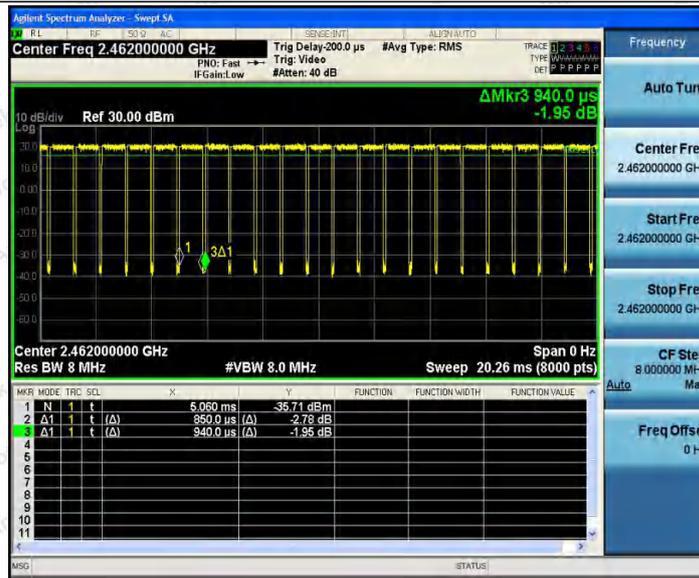


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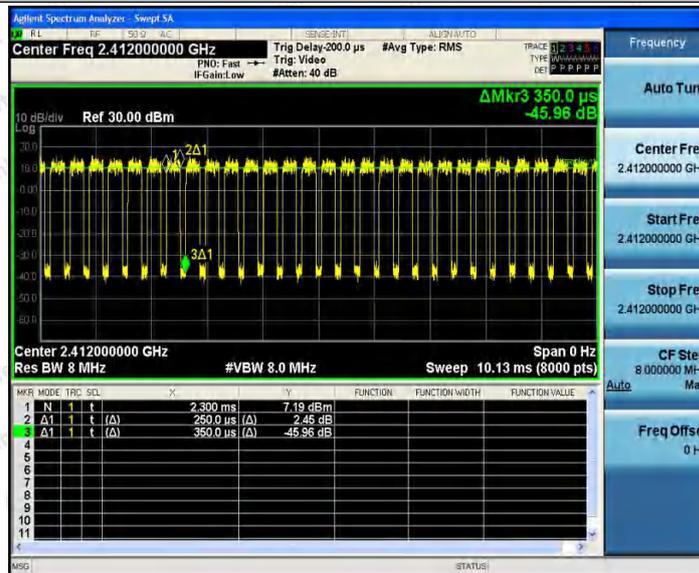
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11B\_Ant2\_2462



11G\_Ant1\_2412

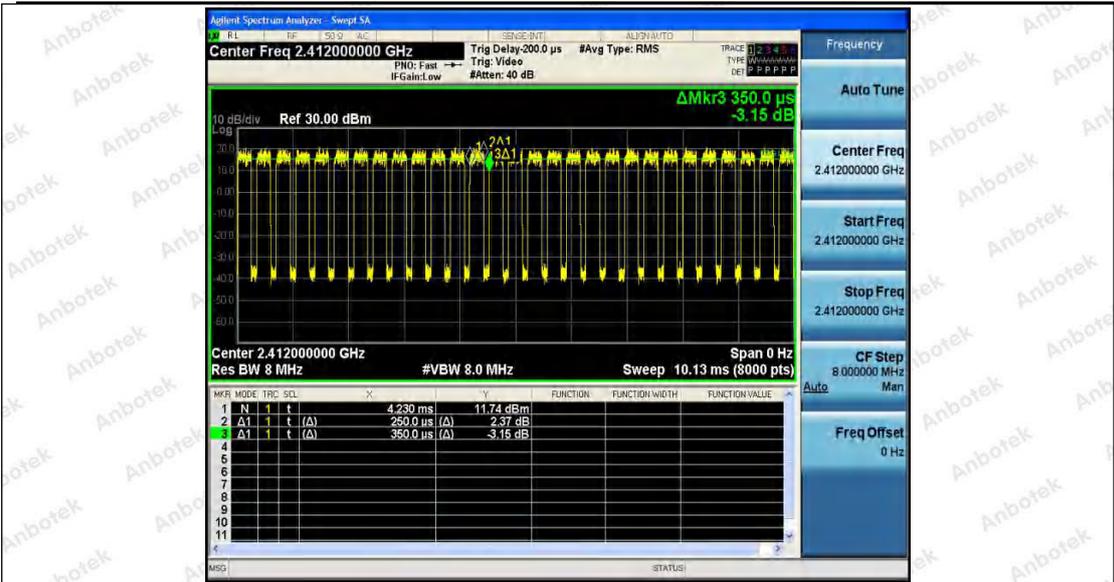


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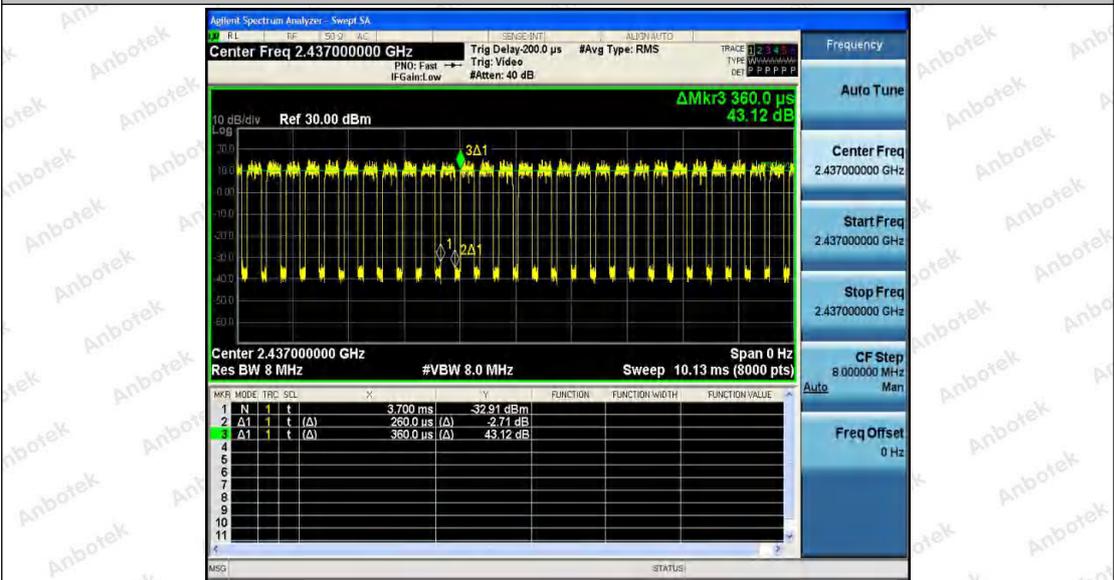
**Shenzhen Anbotek Compliance Laboratory Limited**

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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

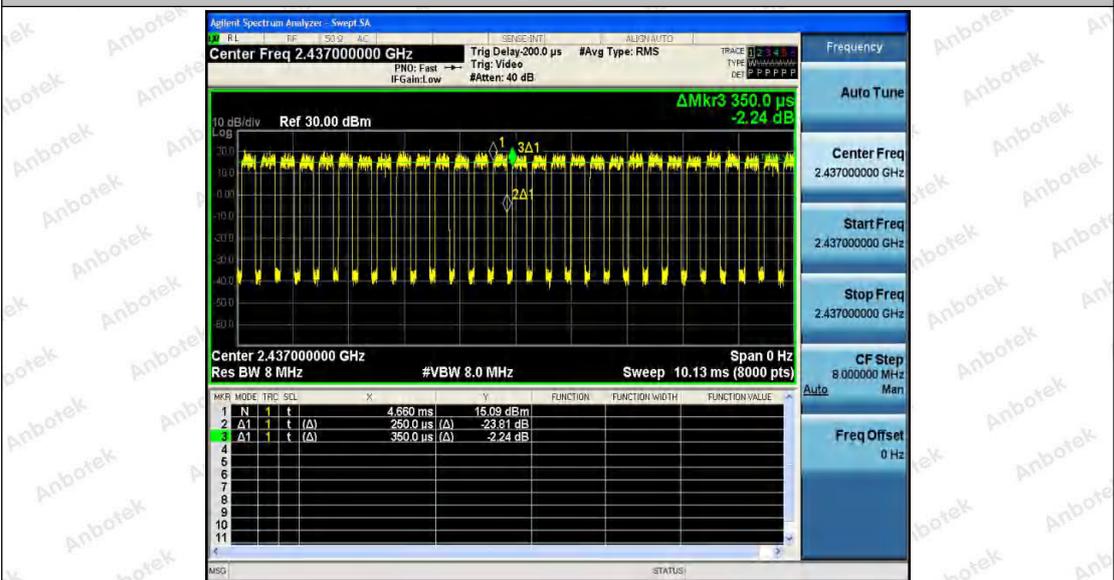
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11G\_Ant1\_2437



11G\_Ant2\_2437

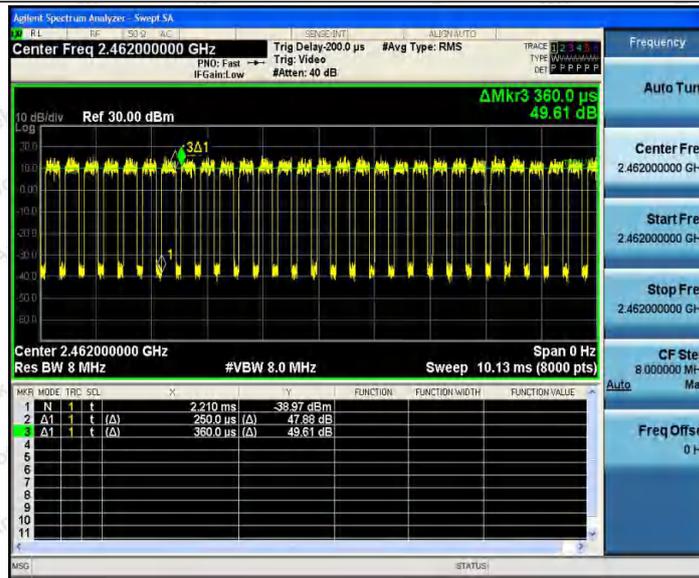


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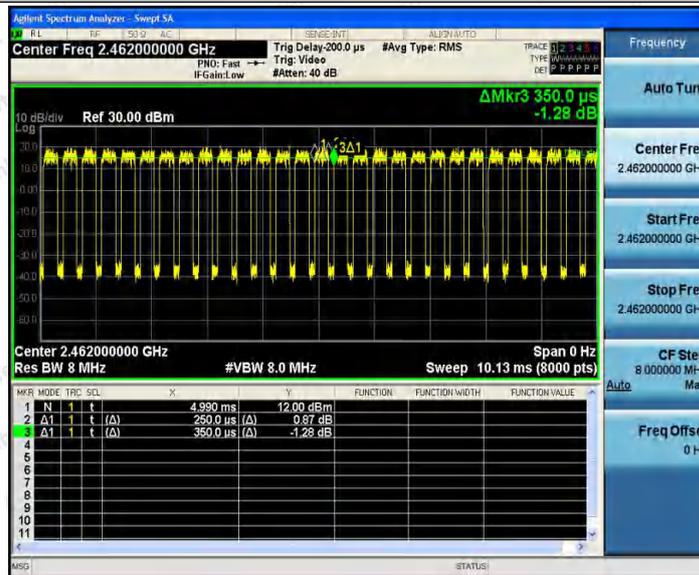
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11G\_Ant1\_2462



11G\_Ant2\_2462



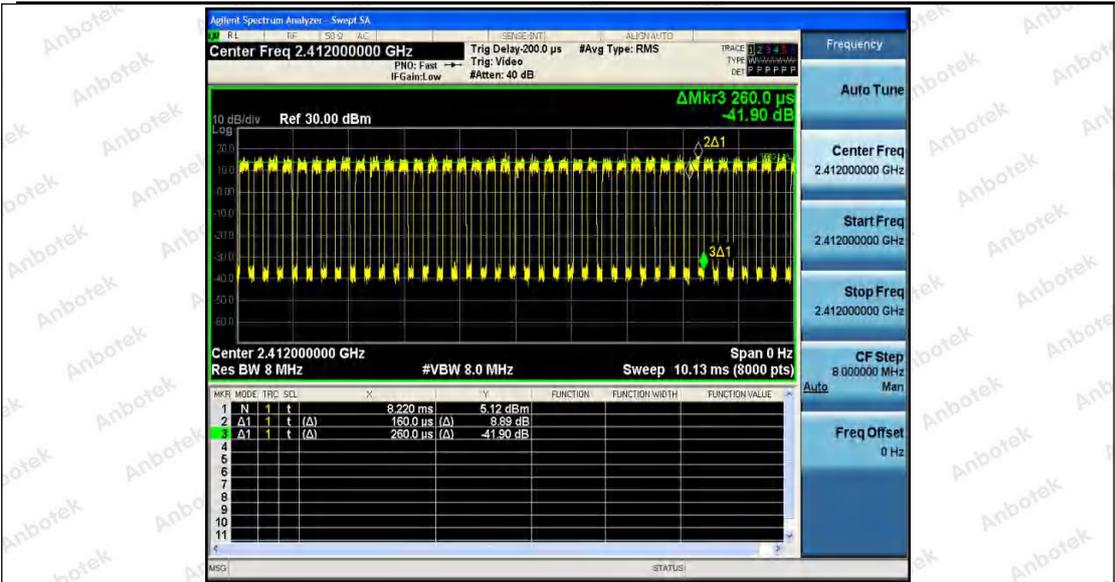
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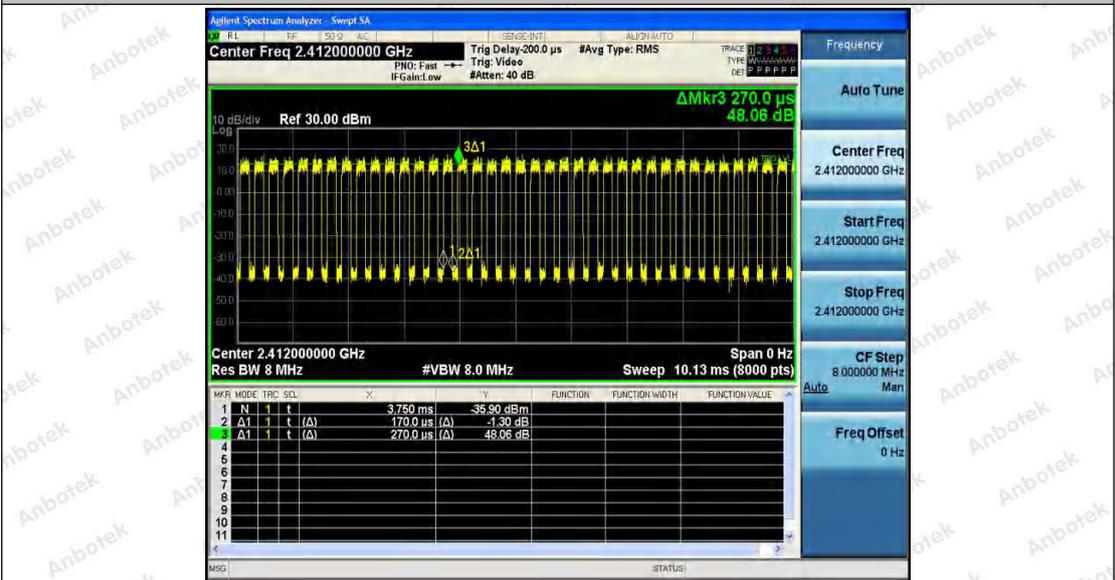
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

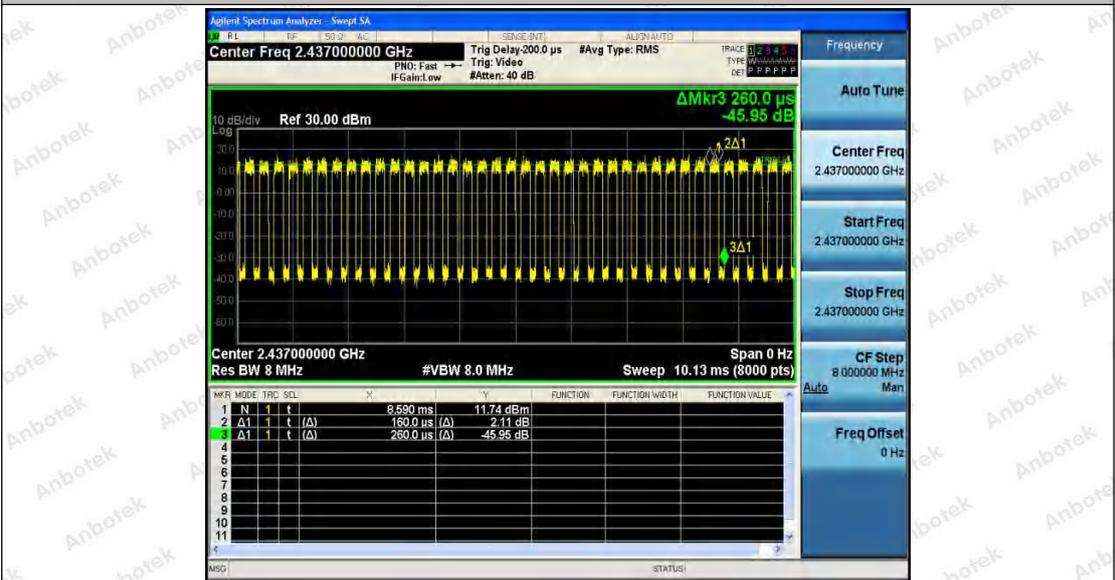
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11N20\_Ant2\_2412



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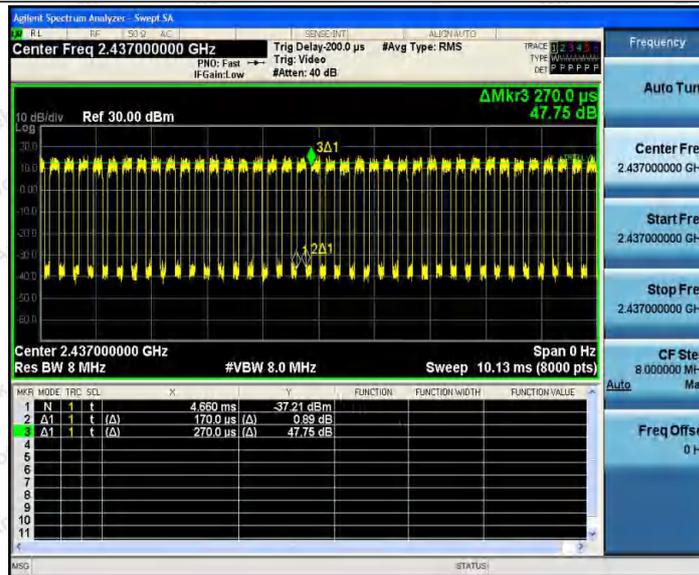


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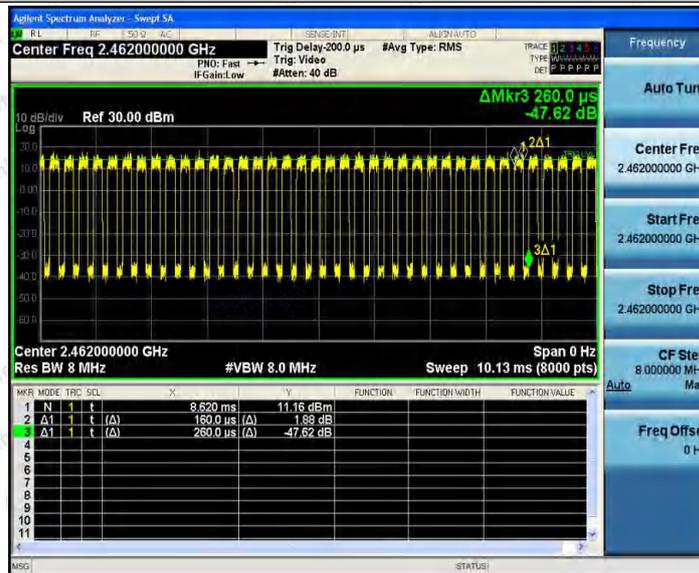
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11N20\_Ant2\_2437



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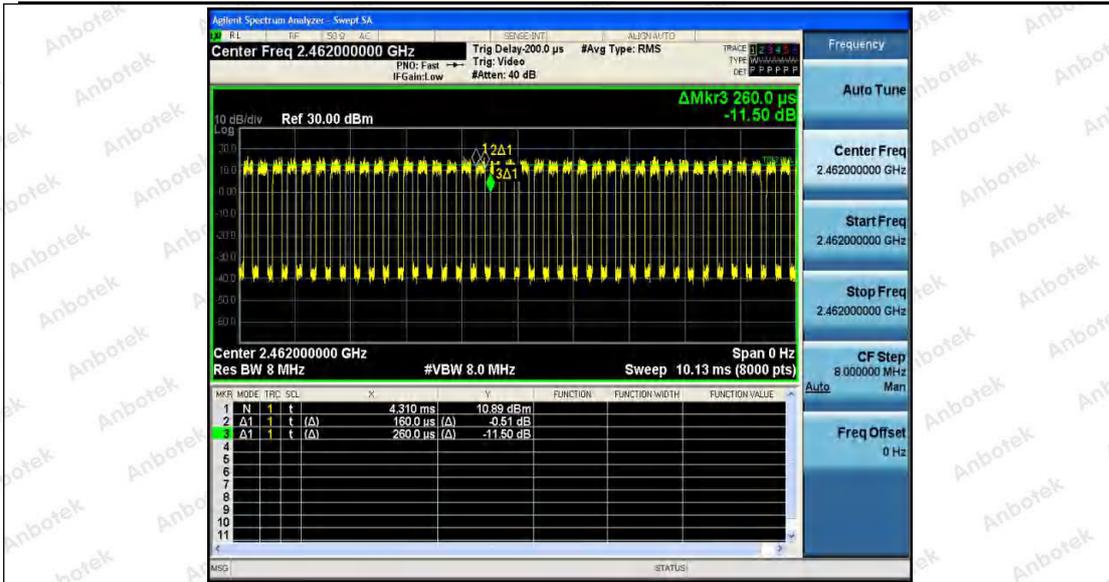
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