

## Appendix Test Data

Report No.:	18220WC20272901	Test Sample No.:	1-2-2
Start Test Date:	2022.12.6	Finish Test Date:	2022.12.14
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3C°	Relative Humidity:	47 %
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	8.080	2407.960	2416.040	≥0.5	PASS
	Ant2	2412	8.040	2407.960	2416.000	≥0.5	PASS
	Ant1	2437	8.000	2433.000	2441.000	≥0.5	PASS
	Ant2	2437	8.040	2432.960	2441.000	≥0.5	PASS
	Ant1	2462	8.040	2458.000	2466.040	≥0.5	PASS
	Ant2	2462	8.000	2458.000	2466.000	≥0.5	PASS
11G	Ant1	2412	10.920	2406.120	2417.040	≥0.5	PASS
	Ant2	2412	12.840	2404.560	2417.400	≥0.5	PASS
	Ant1	2437	15.040	2429.480	2444.520	≥0.5	PASS
	Ant2	2437	11.320	2432.000	2443.320	≥0.5	PASS
	Ant1	2462	12.600	2455.680	2468.280	≥0.5	PASS
	Ant2	2462	13.840	2455.680	2469.520	≥0.5	PASS
11N20	Ant1	2412	15.000	2404.480	2419.480	≥0.5	PASS
	Ant2	2412	15.080	2404.480	2419.560	≥0.5	PASS
	Ant1	2437	13.720	2430.760	2444.480	≥0.5	PASS
	Ant2	2437	15.040	2429.480	2444.520	≥0.5	PASS
	Ant1	2462	15.000	2454.520	2469.520	≥0.5	PASS
	Ant2	2462	14.200	2455.360	2469.560	≥0.5	PASS
11N40	Ant1	2422	35.160	2404.420	2439.580	≥0.5	PASS
	Ant2	2422	35.040	2404.480	2439.520	≥0.5	PASS
	Ant1	2437	35.040	2419.480	2454.520	≥0.5	PASS
	Ant2	2437	35.040	2419.540	2454.580	≥0.5	PASS

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	Ant1	2452	35.040	2434.480	2469.520	≥0.5	PASS
	Ant2	2452	35.100	2434.480	2469.580	≥0.5	PASS

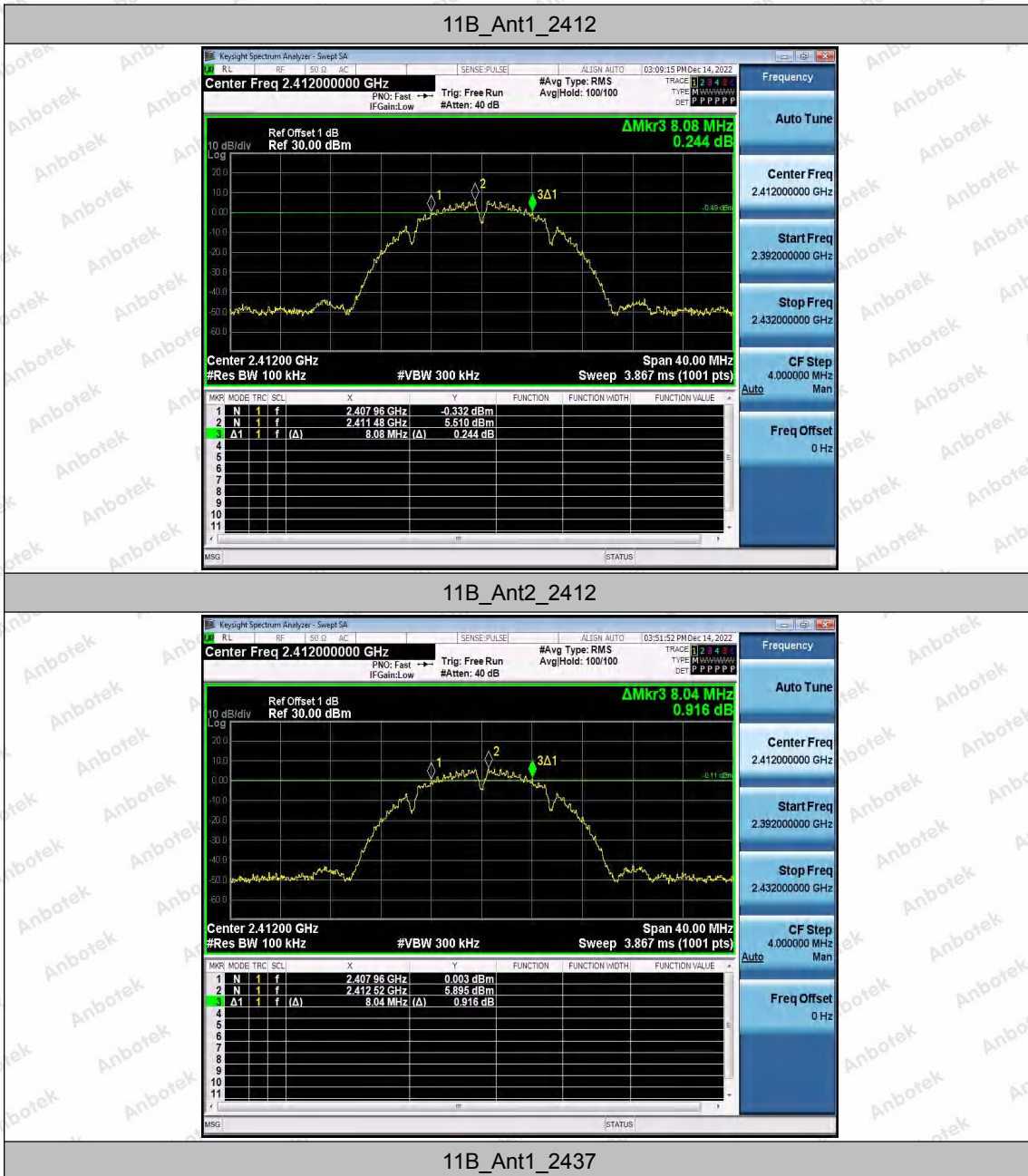
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## Test Graphs



11B\_Ant1\_2437

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11B\_Ant2\_2437



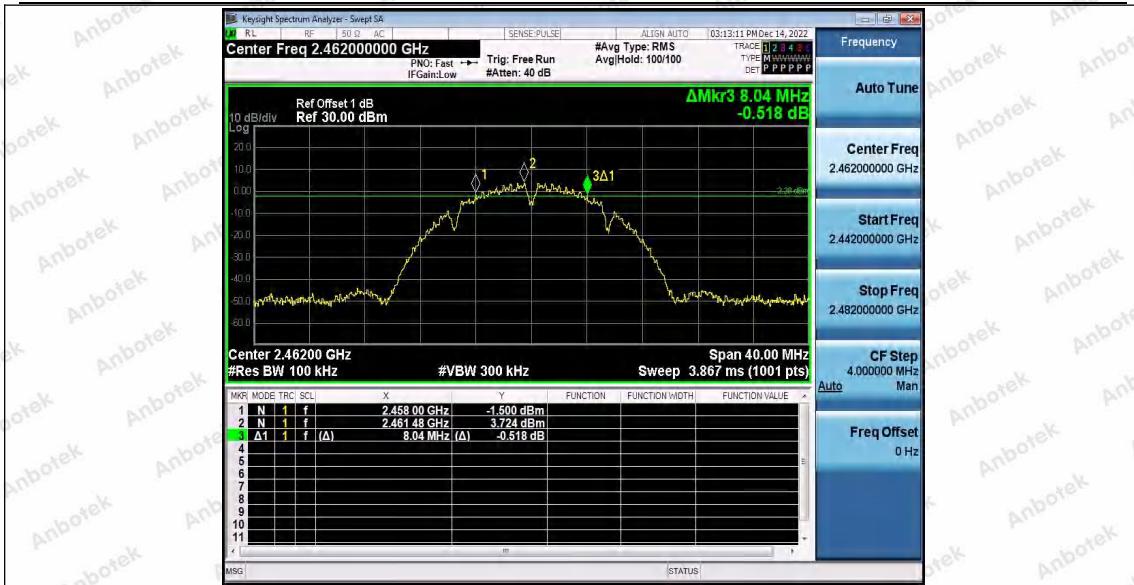
11B\_Ant1\_2462

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11B\_Ant2\_2462



11G\_Ant1\_2412

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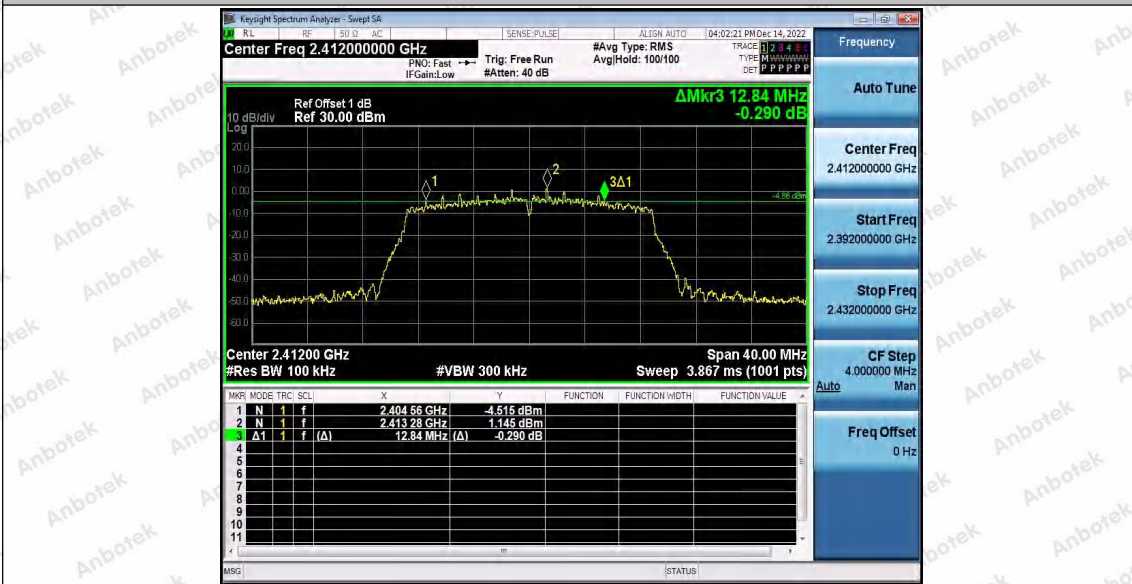
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11G\_Ant2\_2412



11G\_Ant1\_2437

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11G\_Ant2\_2437



11G\_Ant1\_2462

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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

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11N20\_Ant2\_2462



11N40\_Ant1\_2422

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11N40\_Ant2\_2422



11N40\_Ant1\_2437

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11N40\_Ant2\_2437



11N40\_Ant1\_2452

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11N40\_Ant2\_2452



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.545	2405.7505	2418.2955
	Ant2	2412	12.599	2405.7787	2418.3777
	Ant1	2437	12.561	2430.7328	2443.2938
	Ant2	2437	12.624	2430.7500	2443.3740
	Ant1	2462	12.542	2455.7467	2468.2887
	Ant2	2462	12.553	2455.7468	2468.2998
11G	Ant1	2412	16.719	2403.6046	2420.3236
	Ant2	2412	17.739	2403.1676	2420.9066
	Ant1	2437	16.719	2428.6531	2445.3721
	Ant2	2437	17.695	2428.1830	2445.8780
	Ant1	2462	16.667	2453.6878	2470.3548
	Ant2	2462	17.703	2453.1681	2470.8711
11N20	Ant1	2412	17.653	2403.1765	2420.8295
	Ant2	2412	17.667	2403.1693	2420.8363
	Ant1	2437	17.632	2428.2099	2445.8419
	Ant2	2437	17.711	2428.1513	2445.8623
	Ant1	2462	17.673	2453.1749	2470.8479
	Ant2	2462	17.717	2453.1554	2470.8724
11N40	Ant1	2422	35.881	2404.0872	2439.9682
	Ant2	2422	35.938	2404.0843	2440.0223
	Ant1	2437	35.952	2419.0502	2455.0022
	Ant2	2437	35.929	2419.0901	2455.0191
	Ant1	2452	35.909	2434.0467	2469.9557
	Ant2	2452	35.849	2434.1219	2469.9709



## 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



11N20\_Ant1\_2412

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11N20\_Ant2\_2412



11N20\_Ant1\_2437

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11N20\_Ant2\_2437



11N20\_Ant1\_2462

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11N20\_Ant2\_2462



11N40\_Ant1\_2422

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11N40\_Ant2\_2422



11N40\_Ant1\_2437

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11N40\_Ant2\_2437



11N40\_Ant1\_2452

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11N40\_Ant2\_2452



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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	17.33	≤30.00
	Ant2	2412	17.79	≤30.00
	Ant1	2437	16.65	≤30.00
	Ant2	2437	17.42	≤30.00
	Ant1	2462	15.62	≤30.00
	Ant2	2462	16.89	≤30.00
11G	Ant1	2412	18.38	≤30.00
	Ant2	2412	18.35	≤30.00
	Ant1	2437	17.69	≤30.00
	Ant2	2437	18.99	≤30.00
	Ant1	2462	16.53	≤30.00
	Ant2	2462	18.51	≤30.00
11N20	Ant1	2412	18.71	≤30.00
	Ant2	2412	19.12	≤30.00
	Ant1	2437	18.53	≤30.00
	Ant2	2437	19.32	≤30.00
	Ant1	2462	17.77	≤30.00
	Ant2	2462	18.86	≤30.00
11N40	Ant1	2422	17.23	≤30.00
	Ant2	2422	17.62	≤30.00
	Ant1	2437	16.95	≤30.00
	Ant2	2437	17.73	≤30.00
	Ant1	2452	16.70	≤30.00
	Ant2	2452	17.19	≤30.00

### MIMO:

Test Condition	TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
NTNV	11N20MIMO	2412	21.930	≤30	PASS
		2437	21.953	≤30	PASS
		2462	21.359	≤30	PASS
	11N40MIMO	2422	20.440	≤30	PASS
		2437	20.368	≤30	PASS
		2452	19.962	≤30	PASS

Note: 1. Result (dBm)=10xlog(10<sup>(ANT1 power(dBm)/10)</sup> + 10<sup>(ANT2 power(dBm)/10)</sup>)

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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	1.65	≤8.00	PASS
	Ant2	2412	3.49	≤8.00	PASS
	Ant1	2437	-10.02	≤8.00	PASS
	Ant2	2437	2.69	≤8.00	PASS
	Ant1	2462	-9.27	≤8.00	PASS
	Ant2	2462	3.99	≤8.00	PASS
11G	Ant1	2412	-15.26	≤8.00	PASS
	Ant2	2412	-14.84	≤8.00	PASS
	Ant1	2437	-16.16	≤8.00	PASS
	Ant2	2437	-14.14	≤8.00	PASS
	Ant1	2462	-16.85	≤8.00	PASS
	Ant2	2462	-14.34	≤8.00	PASS
11N20	Ant1	2412	-15.19	≤8.00	PASS
	Ant2	2412	-13.06	≤8.00	PASS
	Ant1	2437	-14.13	≤8.00	PASS
	Ant2	2437	-14.17	≤8.00	PASS
	Ant1	2462	-15.33	≤8.00	PASS
	Ant2	2462	-13.48	≤8.00	PASS
11N40	Ant1	2422	-15.93	≤8.00	PASS
	Ant2	2422	-16.45	≤8.00	PASS
	Ant1	2437	-17.02	≤8.00	PASS
	Ant2	2437	-16.29	≤8.00	PASS
	Ant1	2452	-16.58	≤8.00	PASS
	Ant2	2452	-16.75	≤8.00	PASS

#### MIMO:

Test Condition	TestMode	Channel	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
NTNV	11N20MIMO	2412	-10.985	≤8	PASS
		2437	-11.140	≤8	PASS
		2462	-11.297	≤8	PASS
	11N40MIMO	2422	-13.172	≤8	PASS
		2437	-13.629	≤8	PASS
		2452	-13.654	≤8	PASS

Note: 1. Result (dBm)=10xlog(10<sup>(ANT1 power(dBm)/10)</sup> + 10<sup>(ANT2 power(dBm)/10)</sup>)

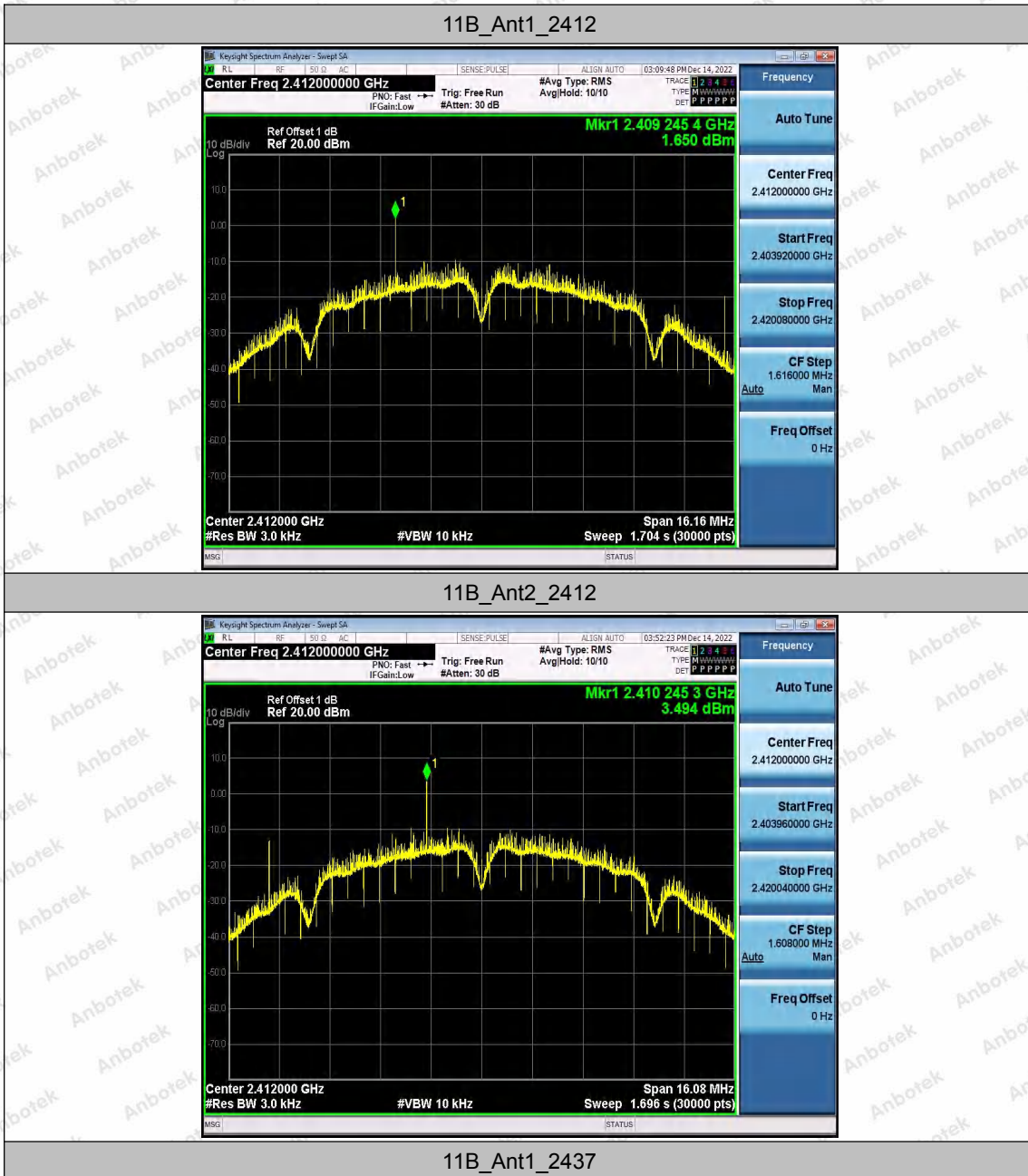
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## Test Graphs



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11B\_Ant2\_2437



11B\_Ant1\_2462

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11B\_Ant2\_2462



11G\_Ant1\_2412

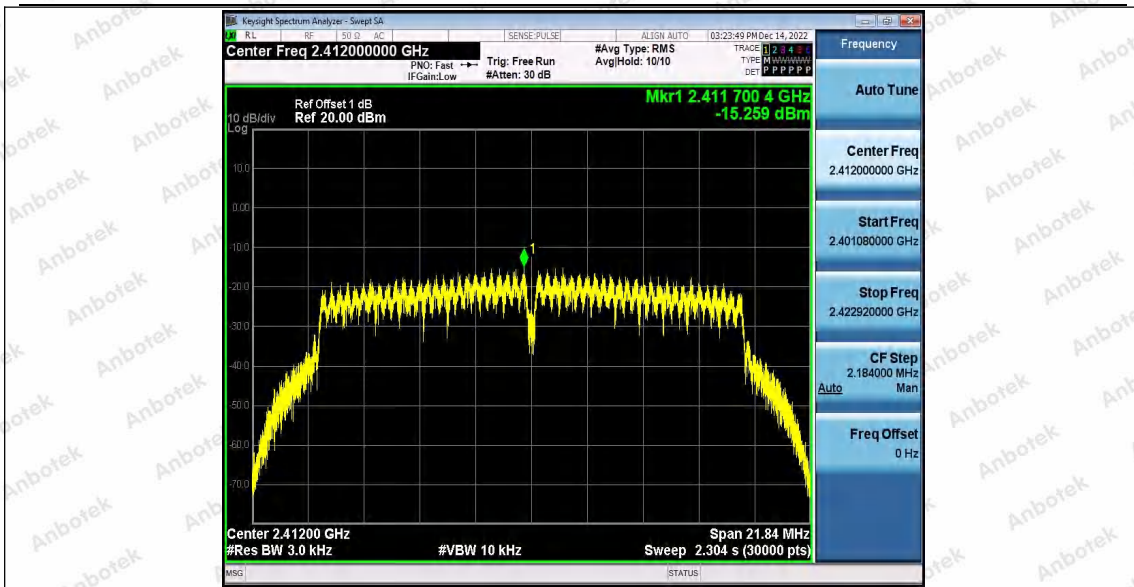
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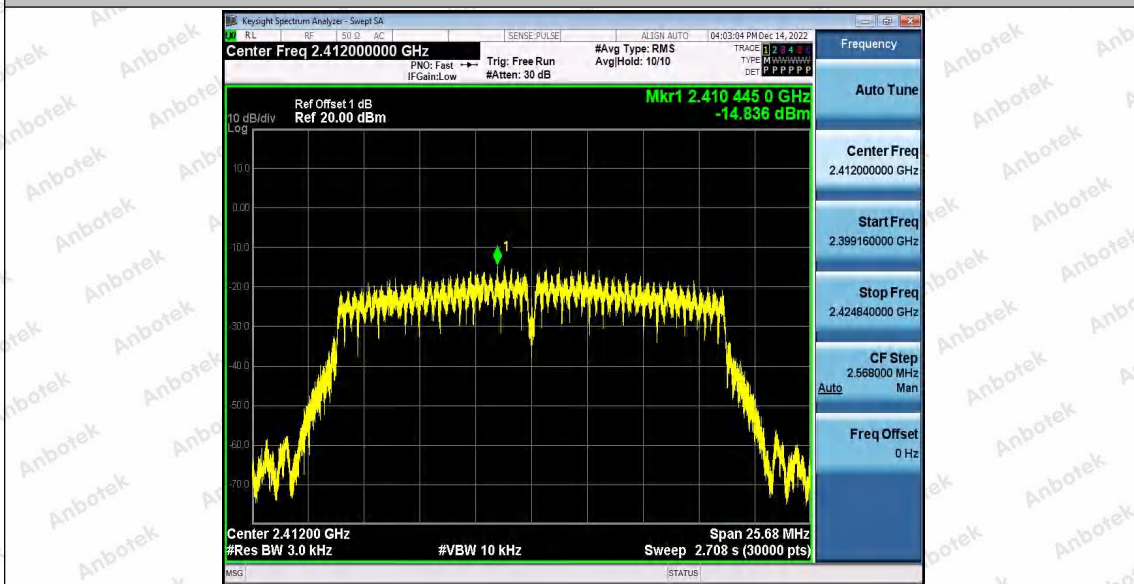
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11G\_Ant2\_2412



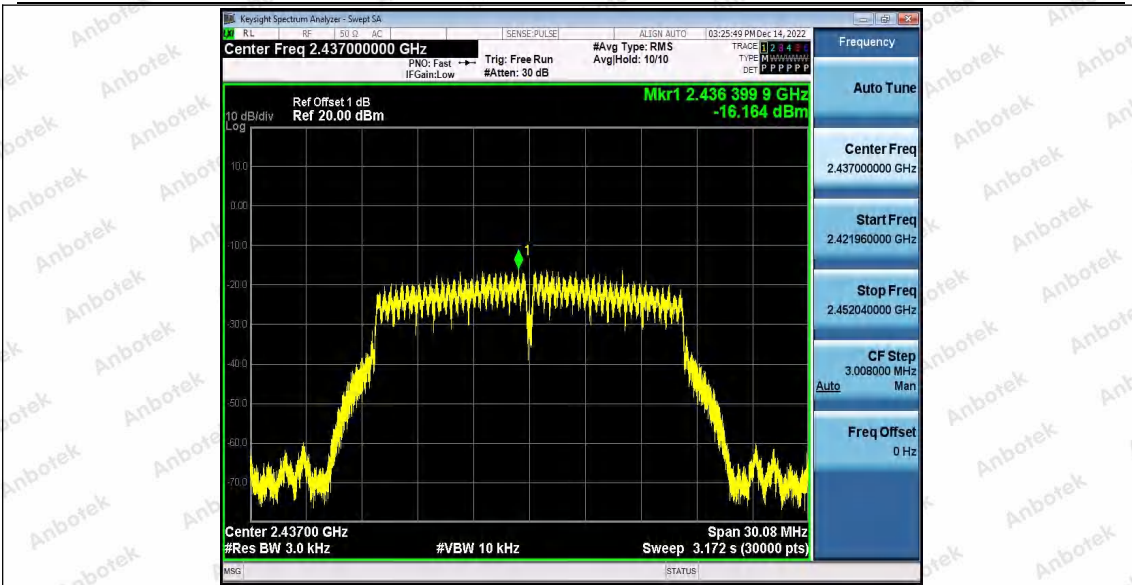
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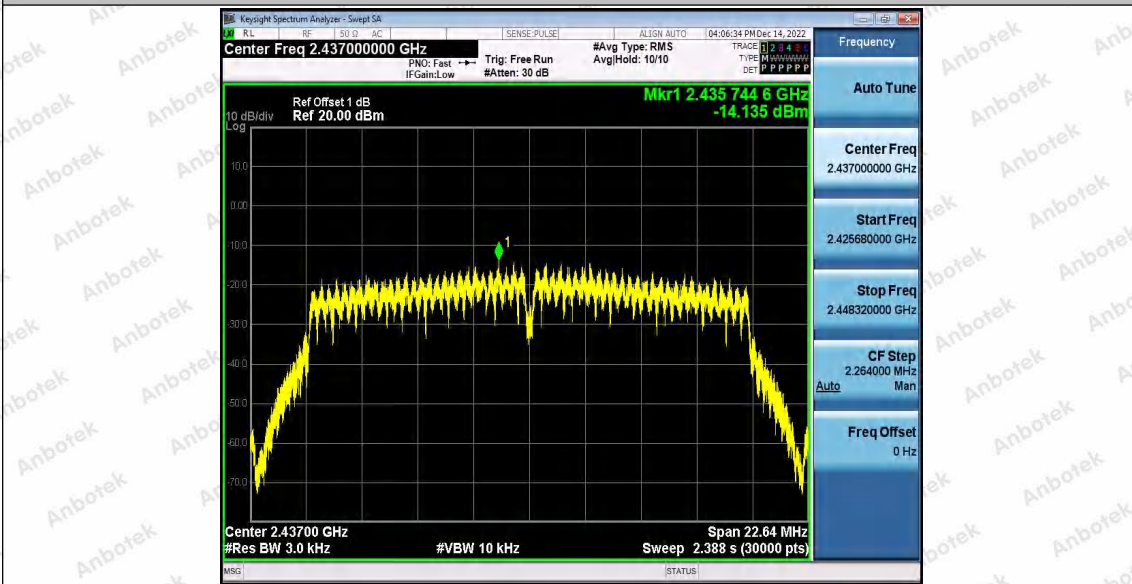
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11G\_Ant2\_2437



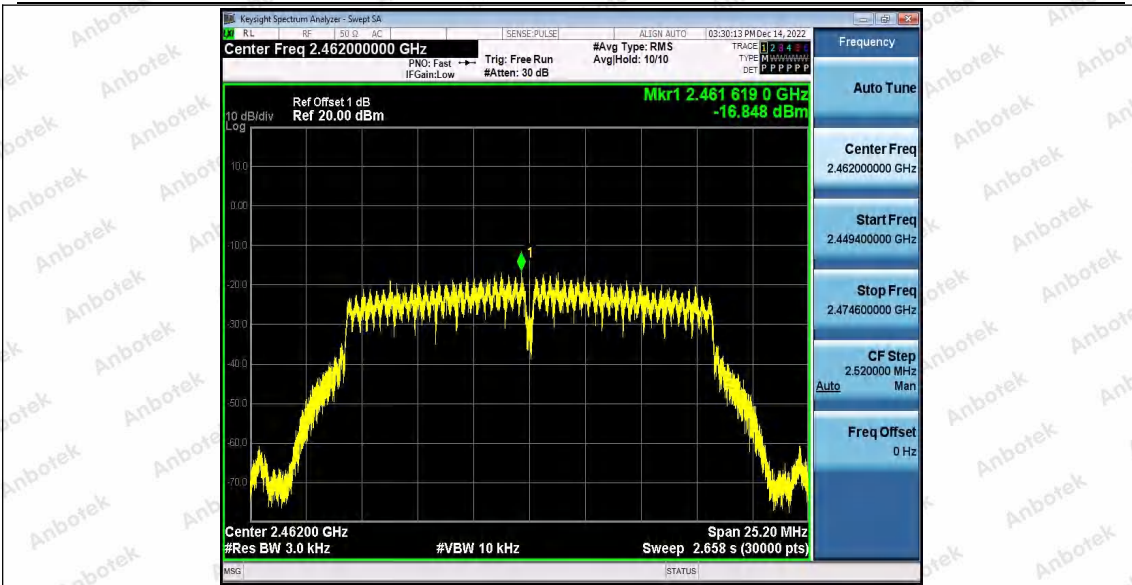
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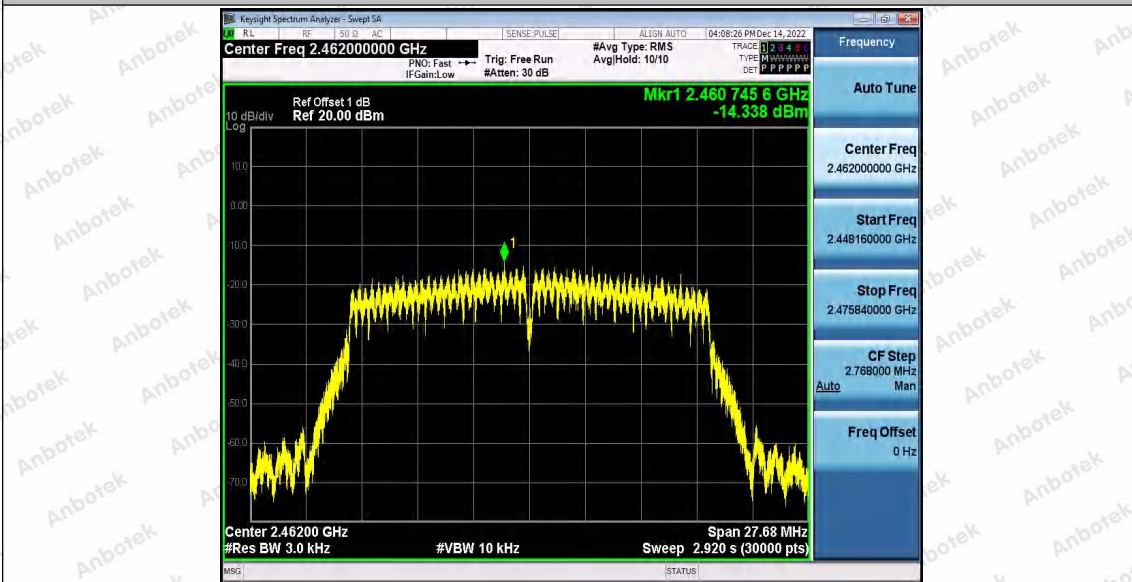
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11G\_Ant2\_2462



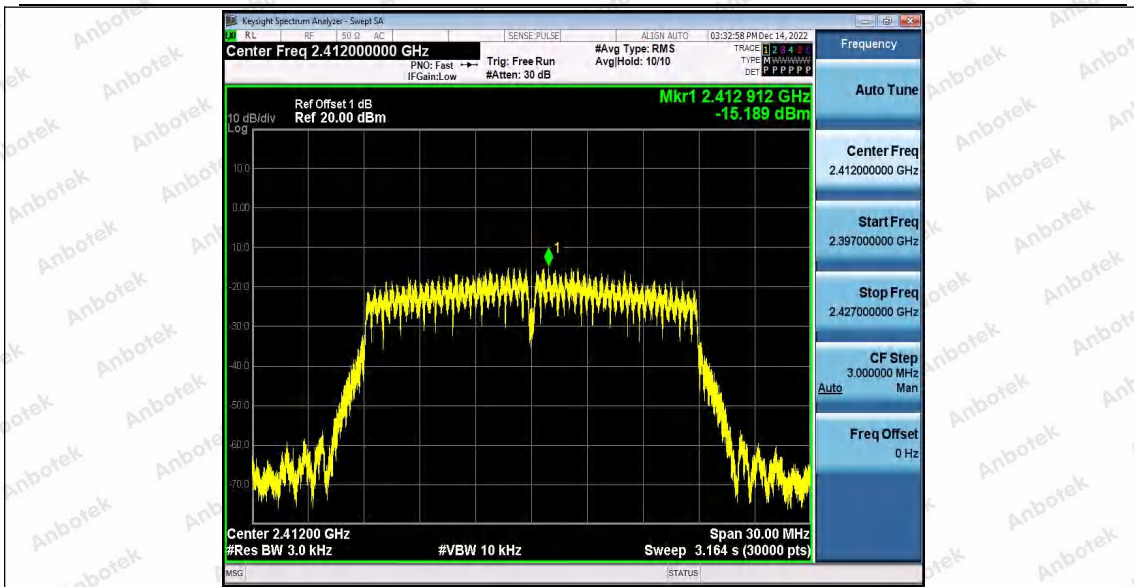
11N20\_Ant1\_2412

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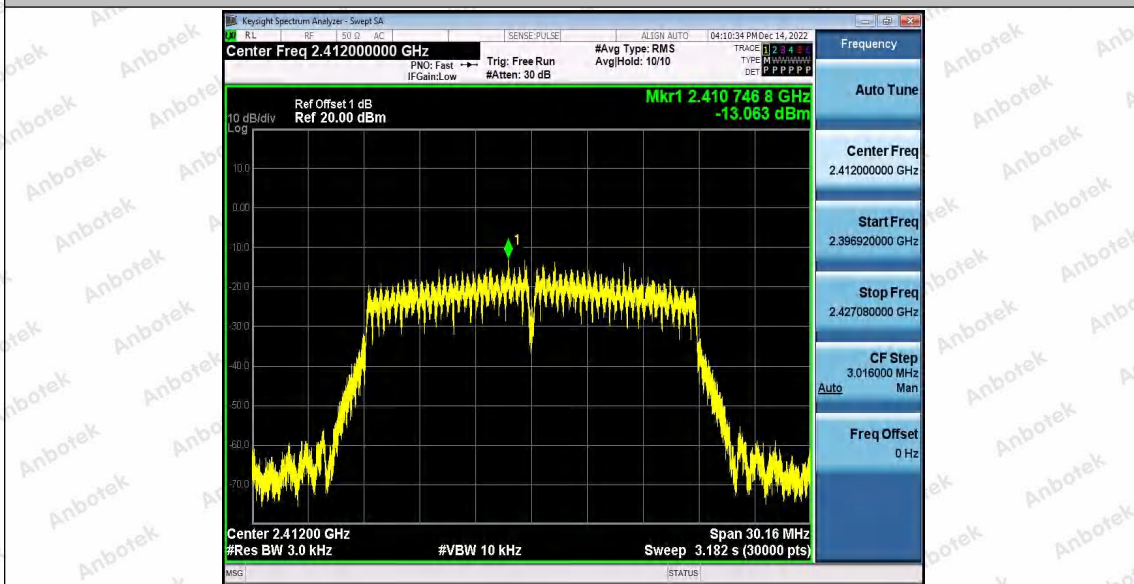
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11N20\_Ant2\_2412



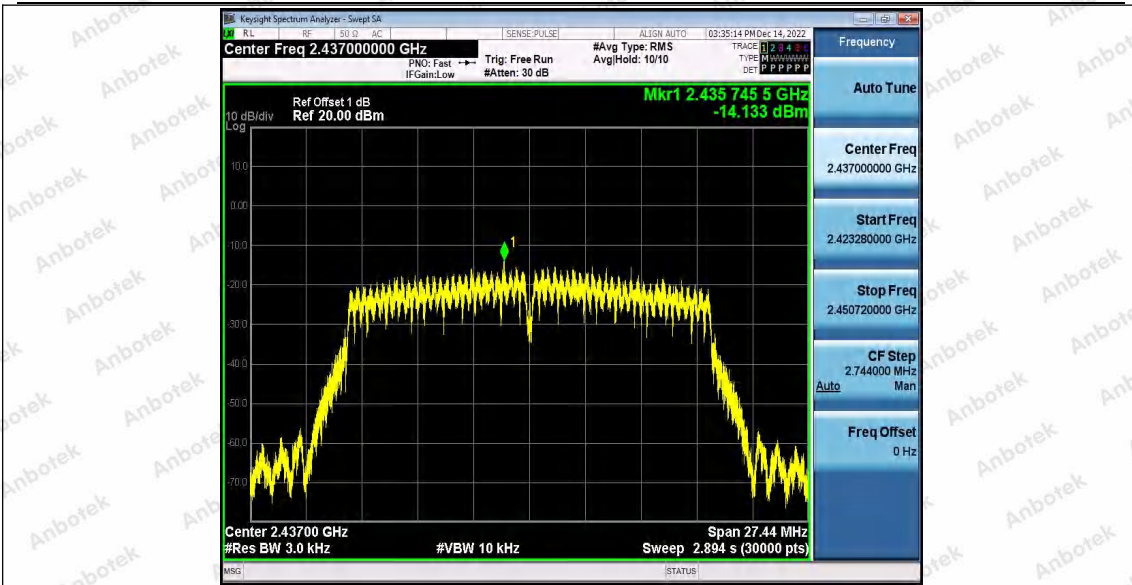
11N20\_Ant1\_2437

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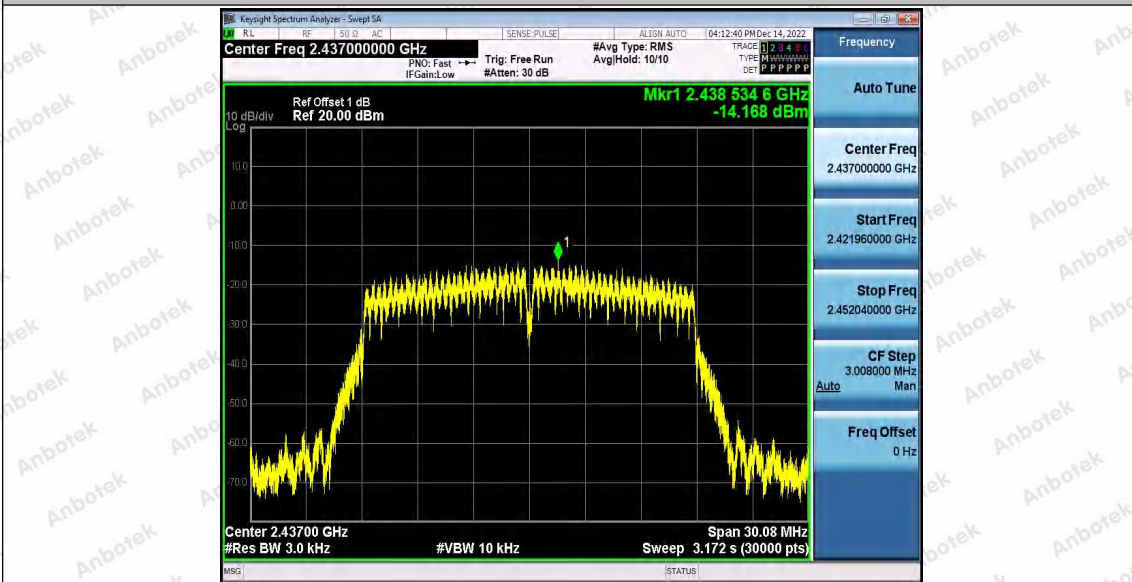
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20\_Ant2\_2437



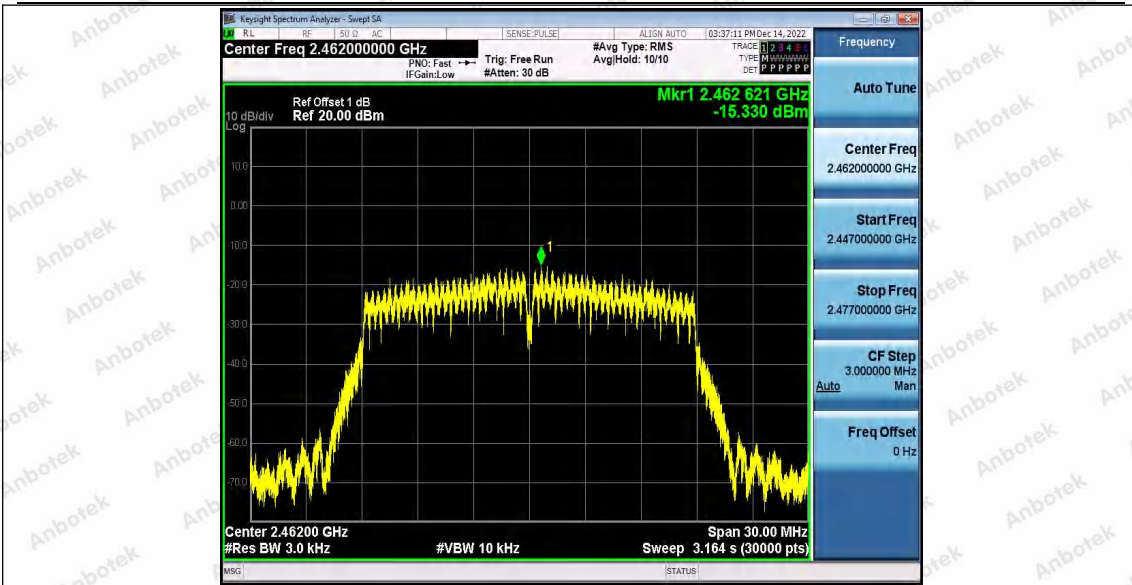
11N20\_Ant1\_2462

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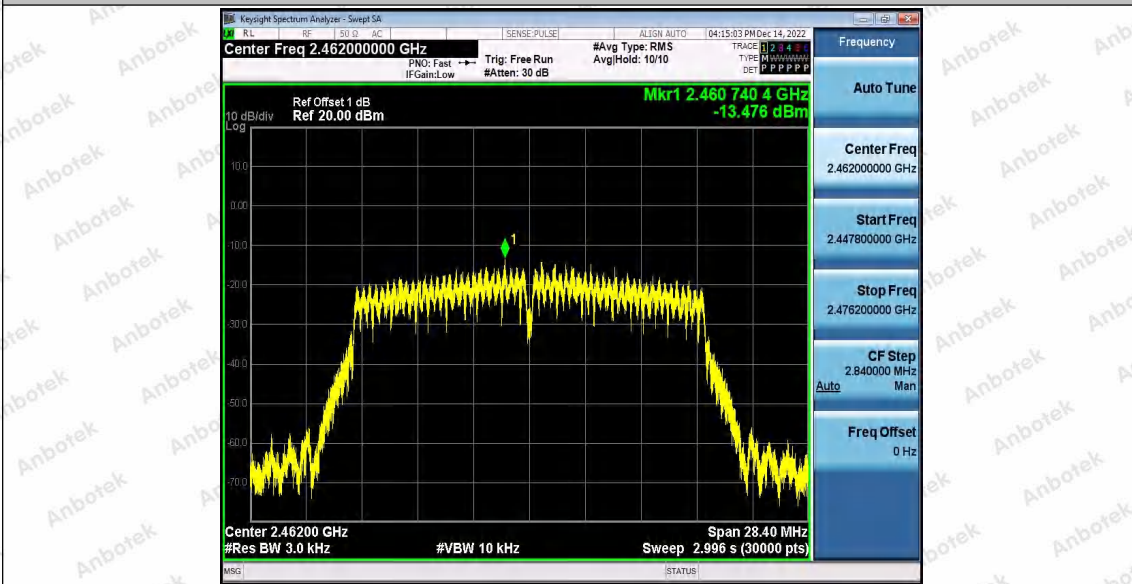
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20\_Ant2\_2462



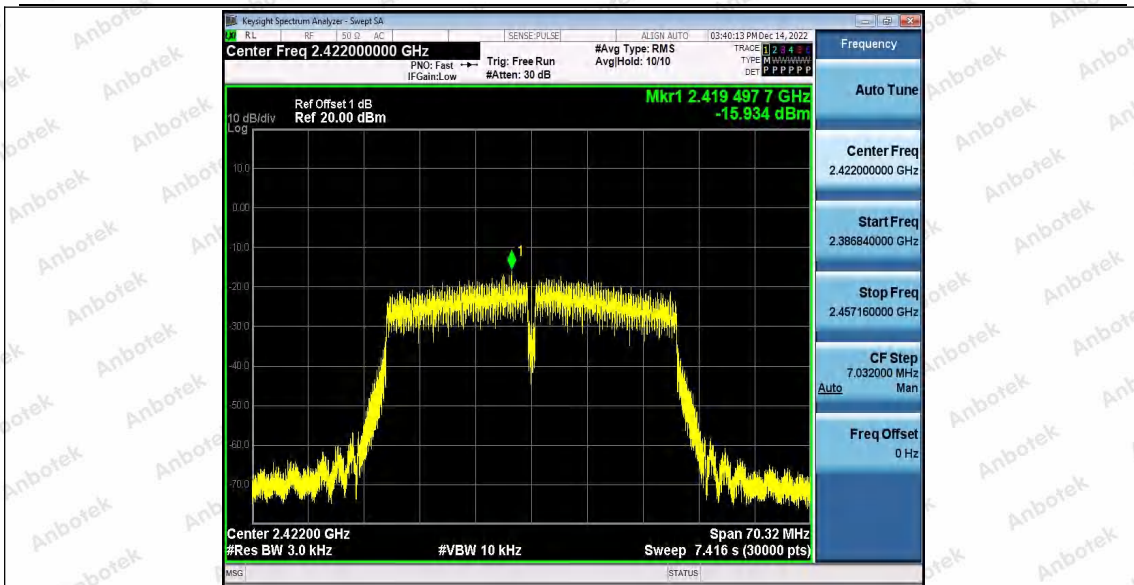
11N40\_Ant1\_2422

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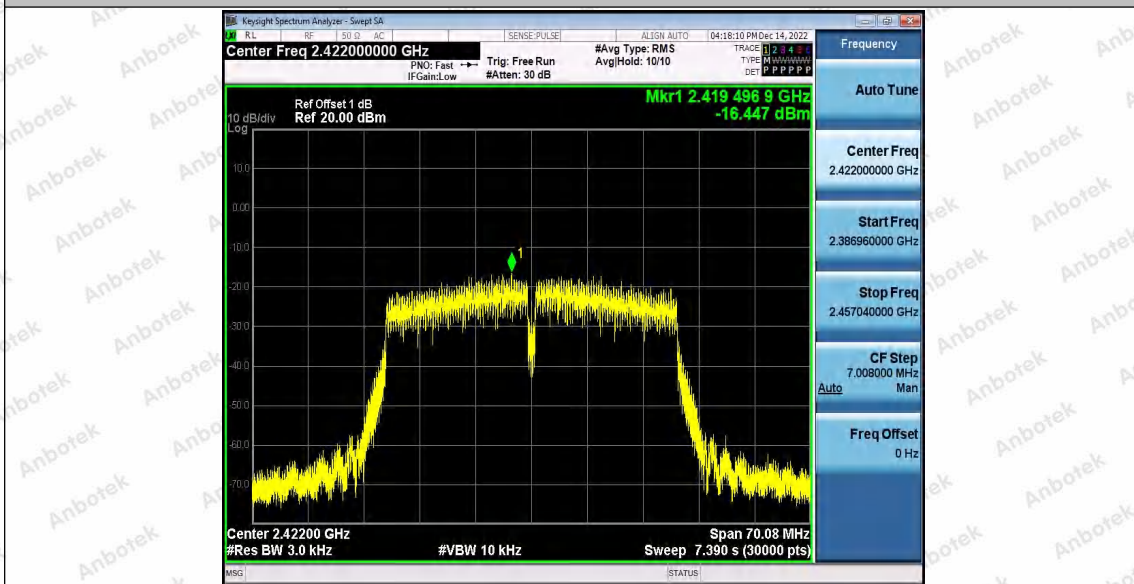
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N40\_Ant2\_2422



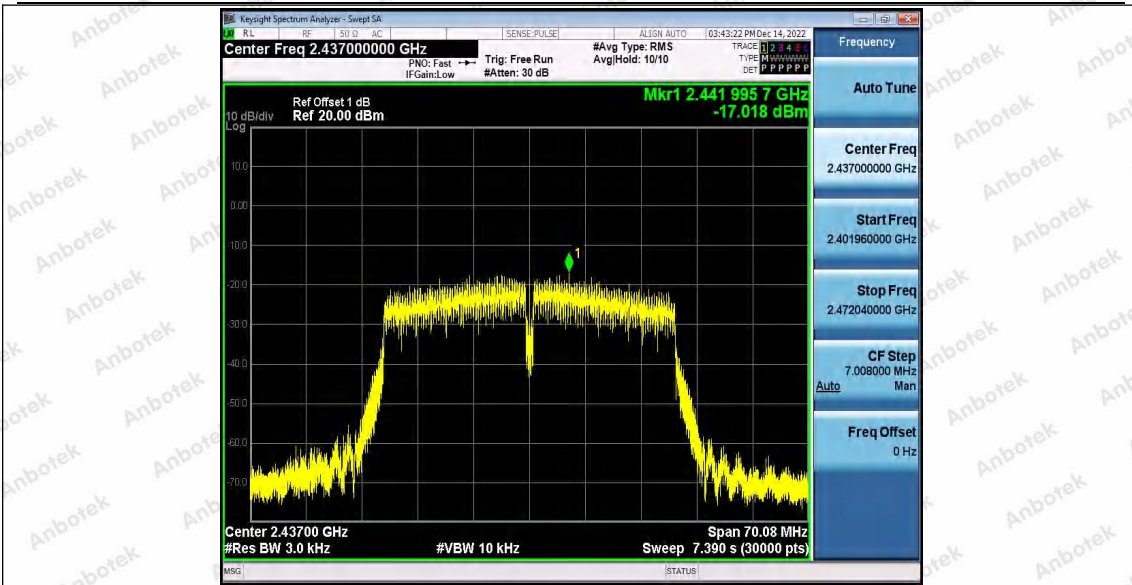
11N40\_Ant1\_2437

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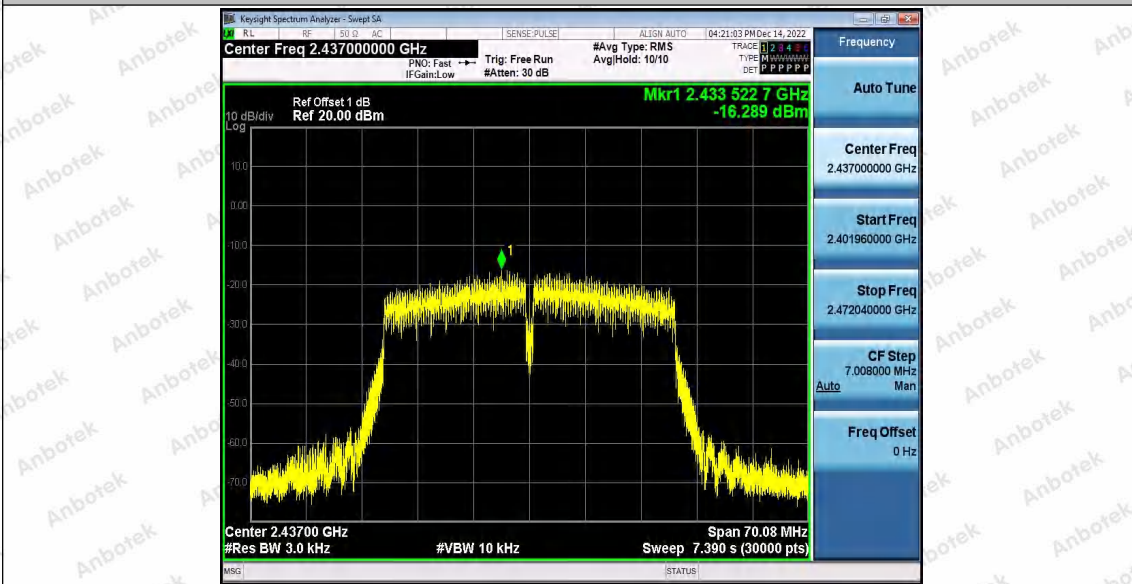
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N40\_Ant2\_2437



11N40\_Ant1\_2452

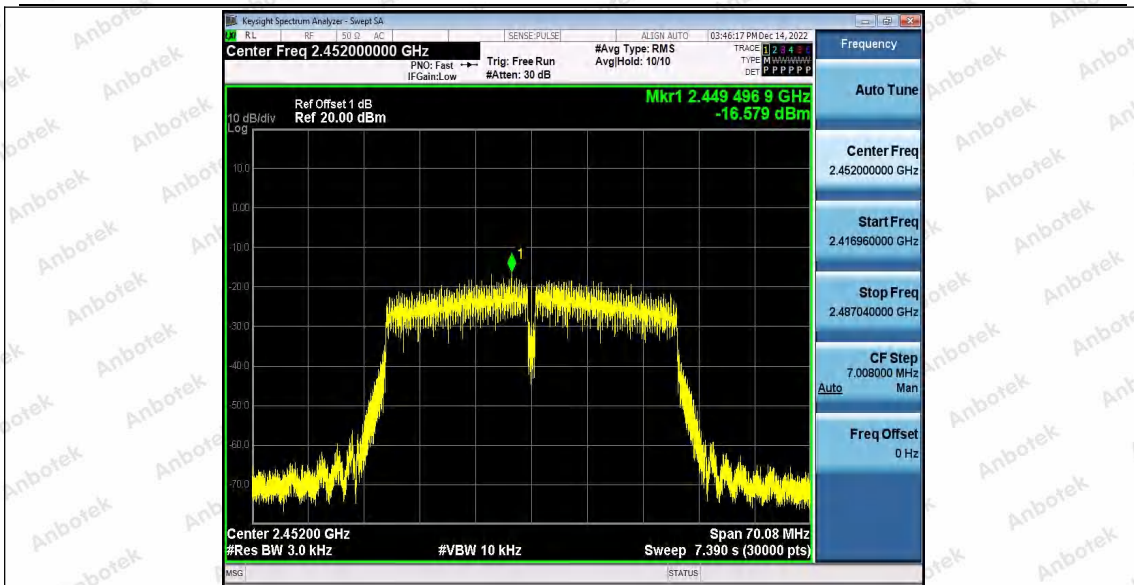
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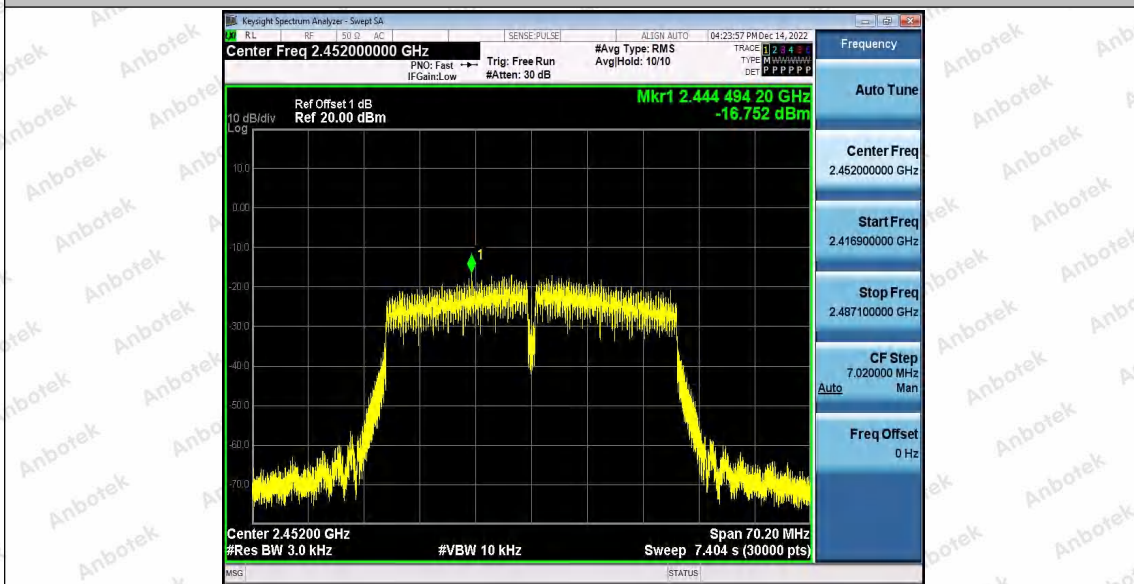
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11N40\_Ant2\_2452



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.42	-44.36	≤-14.58	PASS
	Ant2	Low	2412	5.80	-44.9	≤-14.2	PASS
	Ant1	High	2462	3.70	-47.97	≤-16.3	PASS
	Ant2	High	2462	5.03	-42.65	≤-14.97	PASS
11G	Ant1	Low	2412	-1.94	-45.05	≤-21.94	PASS
	Ant2	Low	2412	1.18	-44.46	≤-18.83	PASS
	Ant1	High	2462	-0.89	-44.56	≤-20.89	PASS
	Ant2	High	2462	0.67	-42.81	≤-19.33	PASS
11N20	Ant1	Low	2412	1.51	-44.08	≤-18.49	PASS
	Ant2	Low	2412	1.86	-44.58	≤-18.14	PASS
	Ant1	High	2462	-0.10	-44.36	≤-20.1	PASS
	Ant2	High	2462	0.92	-42.32	≤-19.08	PASS
11N40	Ant1	Low	2422	-1.84	-41.59	≤-21.84	PASS
	Ant2	Low	2422	-0.91	-44.18	≤-20.91	PASS
	Ant1	High	2452	-1.67	-44.64	≤-21.67	PASS
	Ant2	High	2452	-1.18	-42.31	≤-21.18	PASS



## Test Graphs



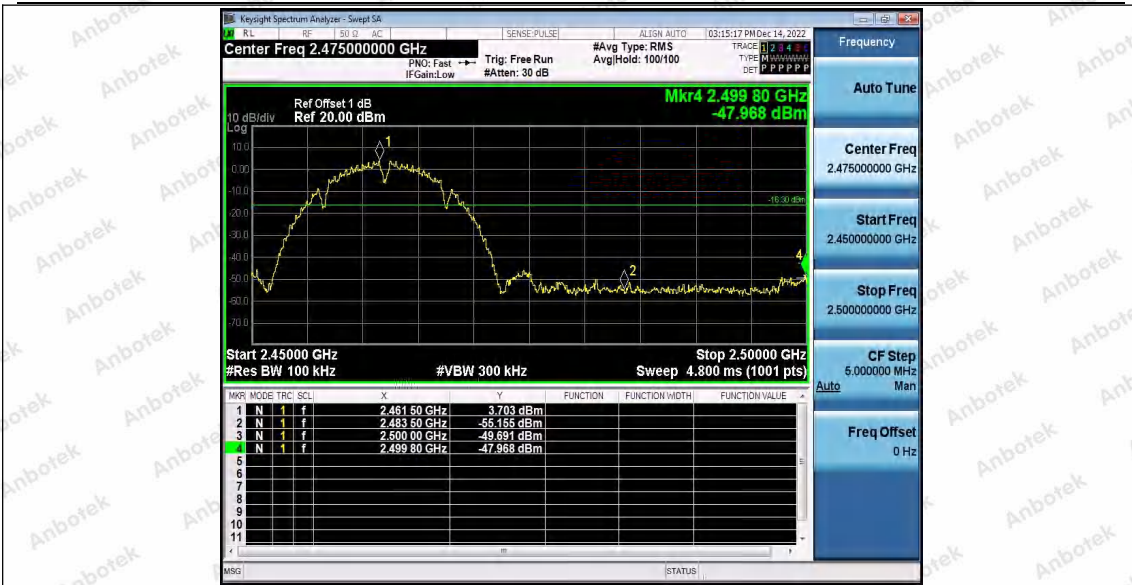
11B\_Ant1\_High\_2462

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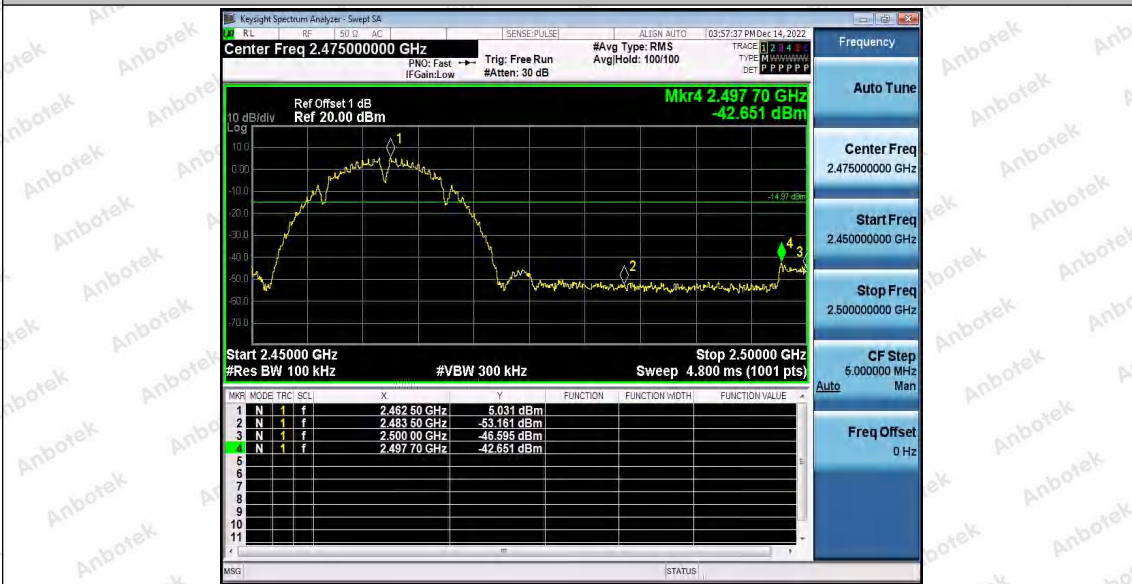
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11B\_Ant2\_High\_2462



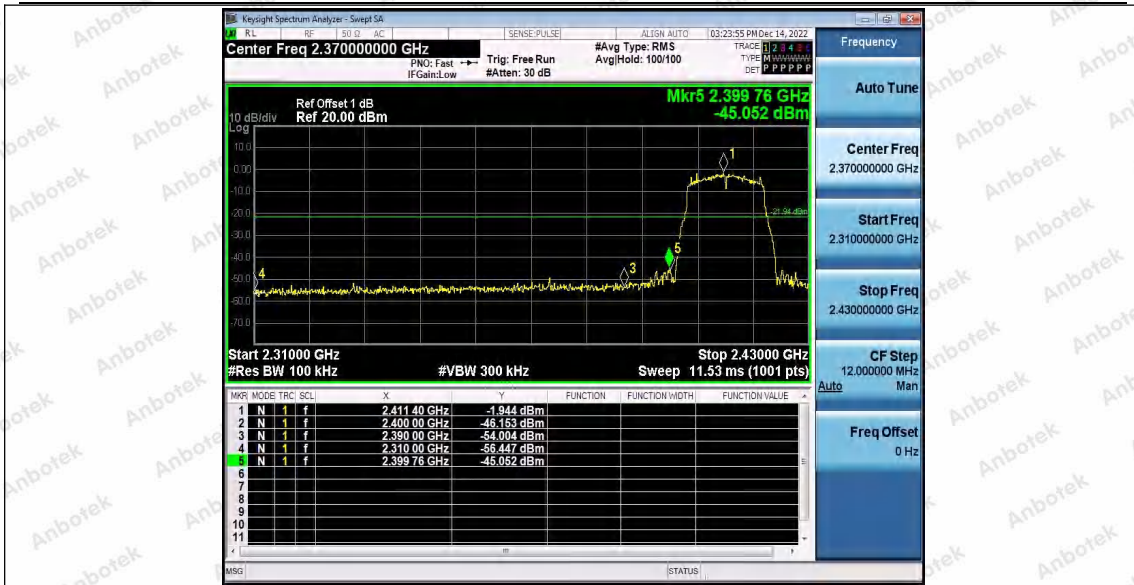
11G\_Ant1\_Low\_2412

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11G\_Ant2\_Low\_2412



11G\_Ant1\_High\_2462

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11G\_Ant2\_High\_2462



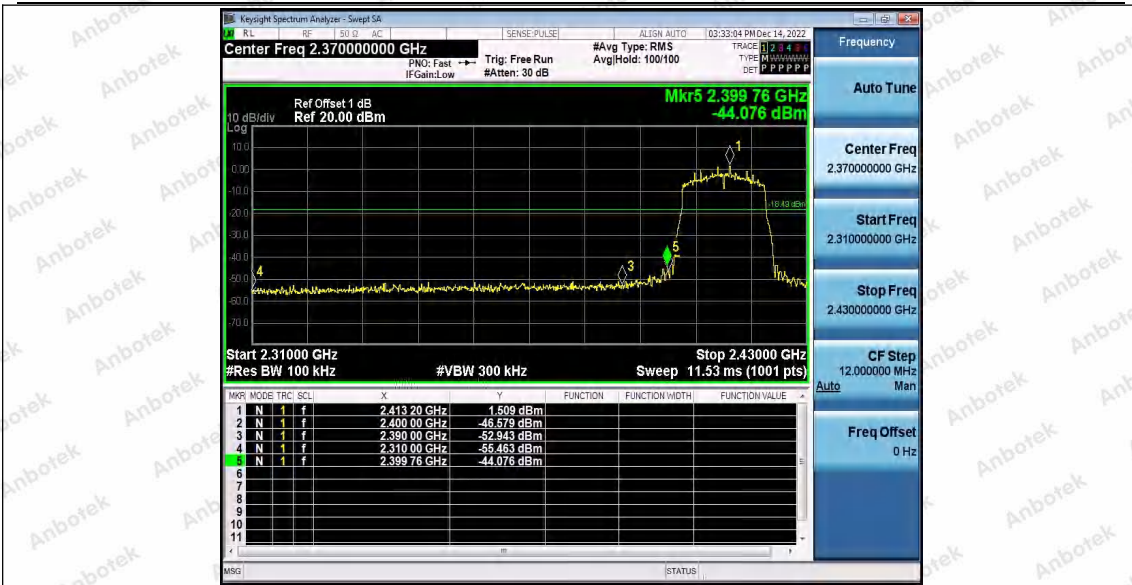
11N20\_Ant1\_Low\_2412

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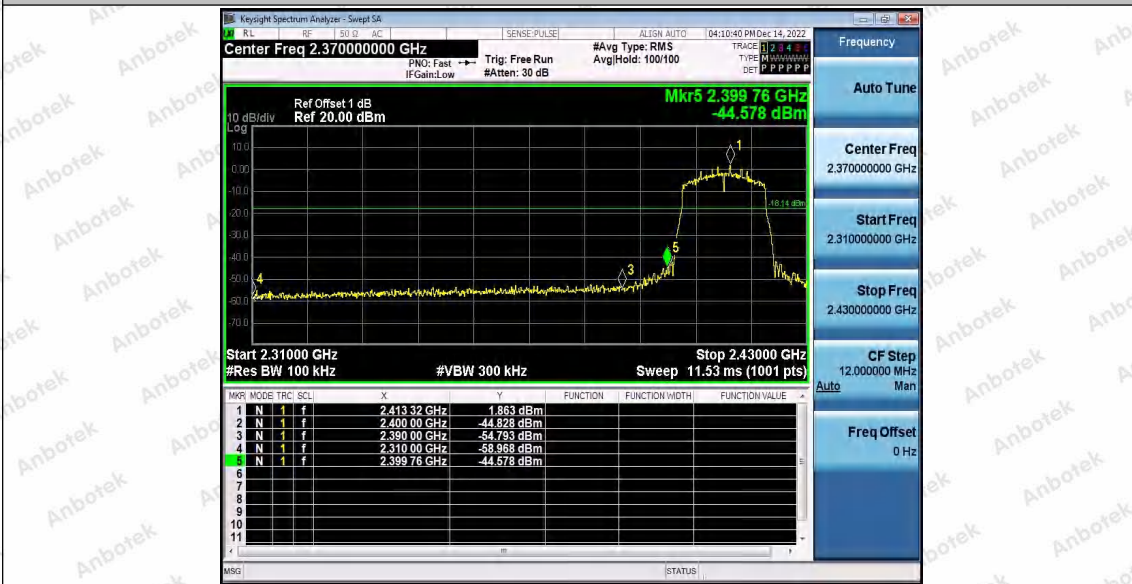
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20\_Ant2\_Low\_2412



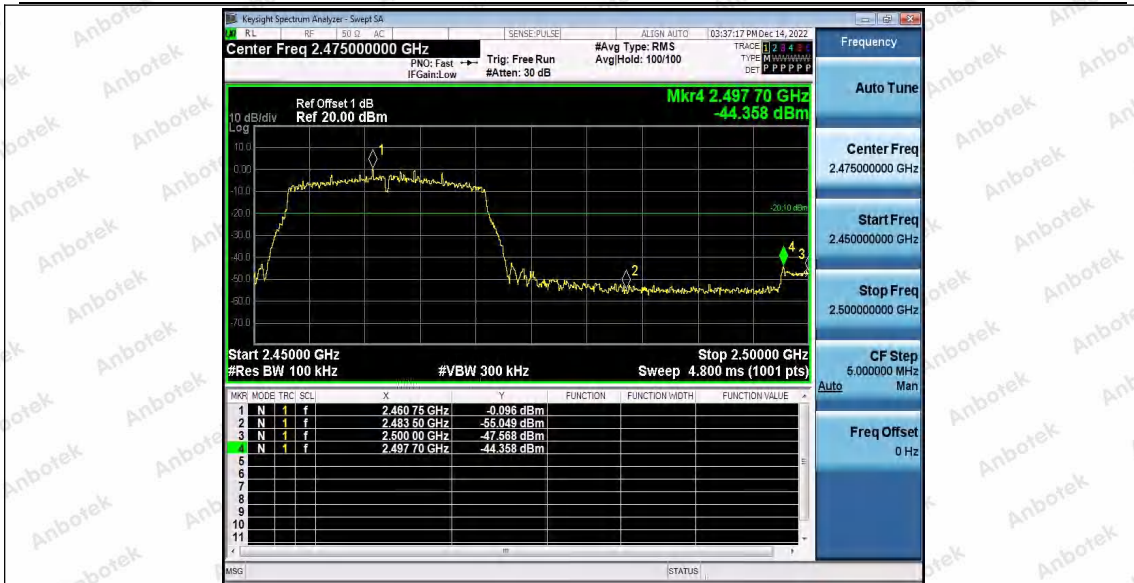
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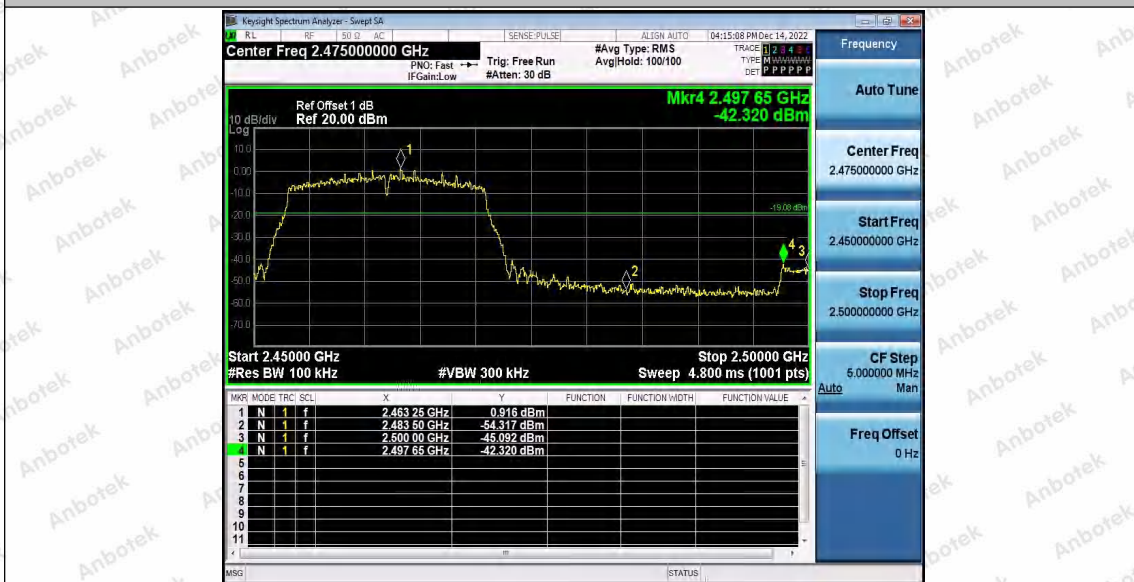
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N20\_Ant2\_High\_2462



11N40\_Ant1\_Low\_2422

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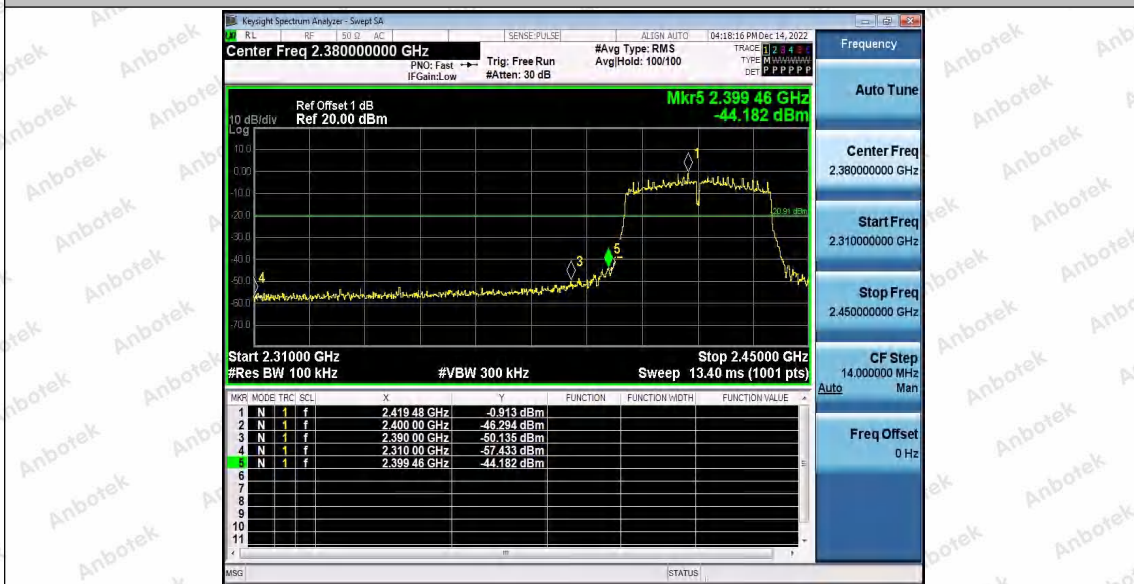
Hotline 400-003-0500  
 www.anbotek.com.cn







11N40\_Ant2\_Low\_2422



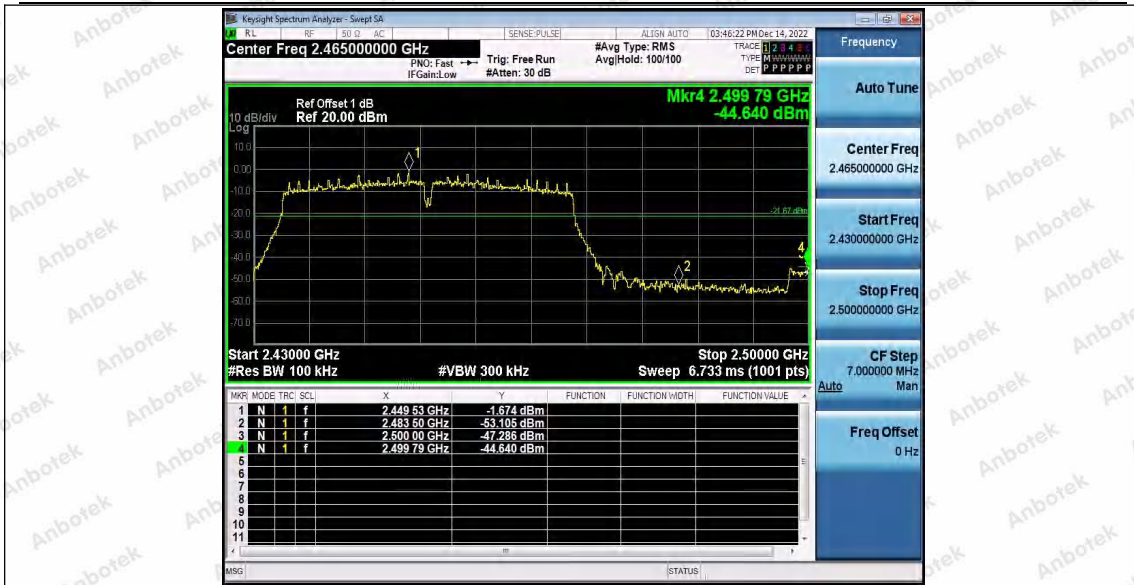
11N40\_Ant1\_High\_2452

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11N40\_Ant2\_High\_2452



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## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	5.11	5.11	---	PASS	
			30~1000	5.11	-56.23	≤-14.89	PASS	
			1000~26500	5.11	-45.09	≤-14.89	PASS	
	Ant2	2412	Reference	5.53	5.53	---	PASS	
			30~1000	5.53	-56.09	≤-14.47	PASS	
			1000~26500	5.53	-44.52	≤-14.47	PASS	
	Ant1	2437	Reference	4.77	4.77	---	PASS	
			30~1000	4.77	-55.92	≤-15.23	PASS	
			1000~26500	4.77	-44.12	≤-15.23	PASS	
	Ant2	2437	Reference	5.41	5.41	---	PASS	
			30~1000	5.41	-56.18	≤-14.59	PASS	
			1000~26500	5.41	-45.26	≤-14.59	PASS	
	Ant1	2462	Reference	2.50	2.50	---	PASS	
			30~1000	2.50	-55.61	≤-17.5	PASS	
			1000~26500	2.50	-39.91	≤-17.5	PASS	
	Ant2	2462	Reference	3.61	3.61	---	PASS	
			30~1000	3.61	-56.42	≤-16.39	PASS	
			1000~26500	3.61	-48.38	≤-16.39	PASS	
	11G	Ant1	2412	Reference	-2.01	-2.01	---	PASS
				30~1000	-2.01	-55.27	≤-22.01	PASS
				1000~26500	-2.01	-42.94	≤-22.01	PASS
		Ant2	2412	Reference	-1.54	-1.54	---	PASS
				30~1000	-1.54	-55.61	≤-21.54	PASS
				1000~26500	-1.54	-44.06	≤-21.54	PASS
Ant1		2437	Reference	-3.25	-3.25	---	PASS	
			30~1000	-3.25	-55.57	≤-23.25	PASS	
			1000~26500	-3.25	-52.75	≤-23.25	PASS	
Ant2		2437	Reference	-1.71	-1.71	---	PASS	
			30~1000	-1.71	-55.11	≤-21.71	PASS	
			1000~26500	-1.71	-50.8	≤-21.71	PASS	
Ant1		2462	Reference	-4.16	-4.16	---	PASS	
			30~1000	-4.16	-55.58	≤-24.16	PASS	
			1000~26500	-4.16	-37.35	≤-24.16	PASS	
Ant2		2462	Reference	-0.82	-0.82	---	PASS	
			30~1000	-0.82	-54.89	≤-20.82	PASS	



11N20	Ant1	2412	1000~26500	-0.82	-45.3	≤-20.82	PASS
			Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-55.29	≤-20.72	PASS
	Ant2	2412	1000~26500	-0.72	-45.52	≤-20.72	PASS
			Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-55.12	≤-20.17	PASS
	Ant1	2437	1000~26500	-0.17	-43.02	≤-20.17	PASS
			Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-54.92	≤-20.41	PASS
	Ant2	2437	1000~26500	-0.41	-47.05	≤-20.41	PASS
			Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-54.84	≤-22.05	PASS
Ant1	2462	1000~26500	-2.05	-49.61	≤-22.05	PASS	
		Reference	-0.67	-0.67	---	PASS	
		30~1000	-0.67	-54.97	≤-20.67	PASS	
Ant2	2462	1000~26500	-0.67	-39.86	≤-20.67	PASS	
		Reference	-1.12	-1.12	---	PASS	
		30~1000	-1.12	-55.16	≤-21.12	PASS	
11N40	Ant1	2422	1000~26500	-1.12	-48.2	≤-21.12	PASS
			Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-54.68	≤-22.41	PASS
	Ant2	2422	1000~26500	-2.41	-45.93	≤-22.41	PASS
			Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-54.77	≤-21.5	PASS
	Ant1	2437	1000~26500	-1.50	-46.94	≤-21.5	PASS
			Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-54.94	≤-21.98	PASS
	Ant2	2437	1000~26500	-1.98	-50	≤-21.98	PASS
			Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-54.89	≤-22.83	PASS
Ant1	2452	1000~26500	-2.83	-45.09	≤-22.83	PASS	
		Reference	-1.83	-1.83	---	PASS	
		30~1000	-1.83	-54.69	≤-21.83	PASS	
Ant2	2452	1000~26500	-1.83	-51.25	≤-21.83	PASS	
		Reference	-1.67	-1.67	---	PASS	
		30~1000	-1.67	-55.06	≤-21.67	PASS	
Ant1	2452	1000~26500	-1.67	-47.7	≤-21.67	PASS	

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