

Appendix Test Data

Report No.:	18220WC30070803	Test Sample No.:	1-2-2
Start Test Date:	2023.04.23	Finish Test Date:	2023.04.24
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.9°C	Relative Humidity:	47%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	≥0.5	PASS
	Ant2	2412	8.040	2408.000	2416.040	≥0.5	PASS
	Ant1	2437	8.520	2433.000	2441.520	≥0.5	PASS
	Ant2	2437	8.080	2432.960	2441.040	≥0.5	PASS
	Ant1	2462	8.080	2457.480	2465.560	≥0.5	PASS
	Ant2	2462	8.560	2457.480	2466.040	≥0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	≥0.5	PASS
	Ant2	2412	15.120	2404.440	2419.560	≥0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	≥0.5	PASS
	Ant2	2437	15.120	2429.440	2444.560	≥0.5	PASS
	Ant1	2462	15.120	2454.440	2469.560	≥0.5	PASS
	Ant2	2462	15.080	2454.440	2469.520	≥0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	≥0.5	PASS
	Ant2	2412	15.120	2404.440	2419.560	≥0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	≥0.5	PASS
	Ant2	2437	15.120	2429.440	2444.560	≥0.5	PASS
	Ant1	2462	15.080	2454.480	2469.560	≥0.5	PASS
	Ant2	2462	15.120	2454.440	2469.560	≥0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	≥0.5	PASS
	Ant2	2422	35.040	2404.480	2439.520	≥0.5	PASS
	Ant1	2437	35.100	2419.480	2454.580	≥0.5	PASS
	Ant2	2437	35.100	2419.480	2454.580	≥0.5	PASS
	Ant1	2452	32.580	2434.420	2467.000	≥0.5	PASS
	Ant2	2452	32.580	2434.420	2467.000	≥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_Ant1_2437

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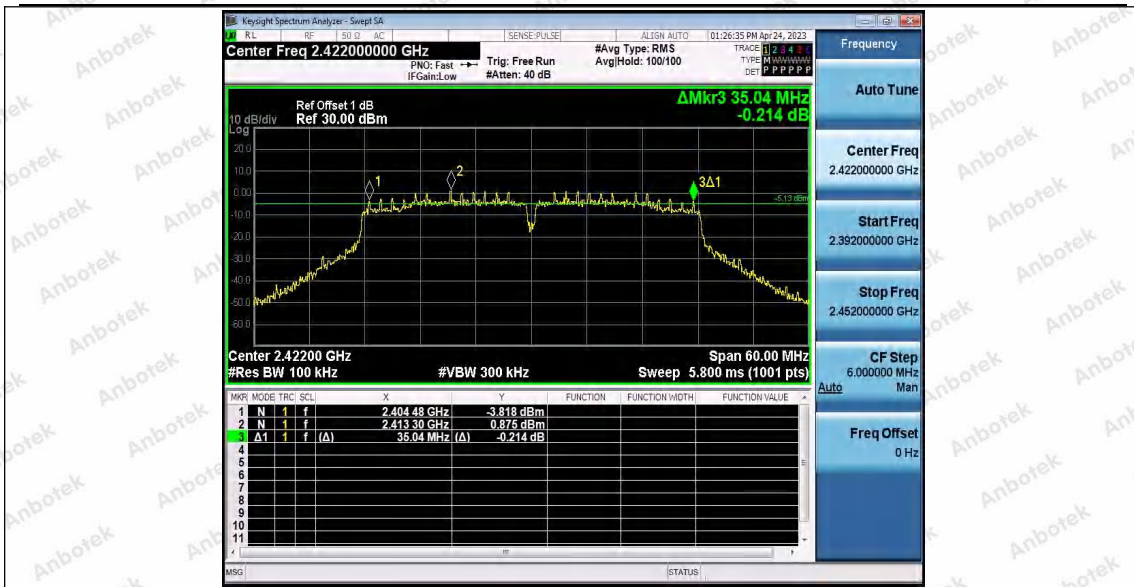
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11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	13.375	2405.3704	2418.7454
	Ant2	2412	13.395	2405.3855	2418.7805
	Ant1	2437	13.413	2430.2832	2443.6962
	Ant2	2437	13.428	2430.2340	2443.6620
	Ant1	2462	13.251	2455.3146	2468.5656
	Ant2	2462	13.200	2455.3623	2468.5623
11G	Ant1	2412	16.791	2403.7299	2420.5209
	Ant2	2412	16.841	2403.6901	2420.5311
	Ant1	2437	16.847	2428.5938	2445.4408
	Ant2	2437	16.839	2428.6114	2445.4504
	Ant1	2462	16.637	2453.6527	2470.2897
	Ant2	2462	16.657	2453.6494	2470.3064
11N20SISO	Ant1	2412	17.822	2403.1590	2420.9810
	Ant2	2412	17.838	2403.1386	2420.9766
	Ant1	2437	17.862	2428.0739	2445.9359
	Ant2	2437	17.883	2428.0243	2445.9073
	Ant1	2462	17.770	2453.0956	2470.8656
	Ant2	2462	17.685	2453.1408	2470.8258
11N40SISO	Ant1	2422	35.915	2404.0828	2439.9978
	Ant2	2422	35.839	2404.0871	2439.9261
	Ant1	2437	35.952	2419.1162	2455.0682
	Ant2	2437	35.995	2419.1486	2455.1436
	Ant1	2452	35.851	2433.9240	2469.7750
	Ant2	2452	35.826	2433.9486	2469.7746

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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



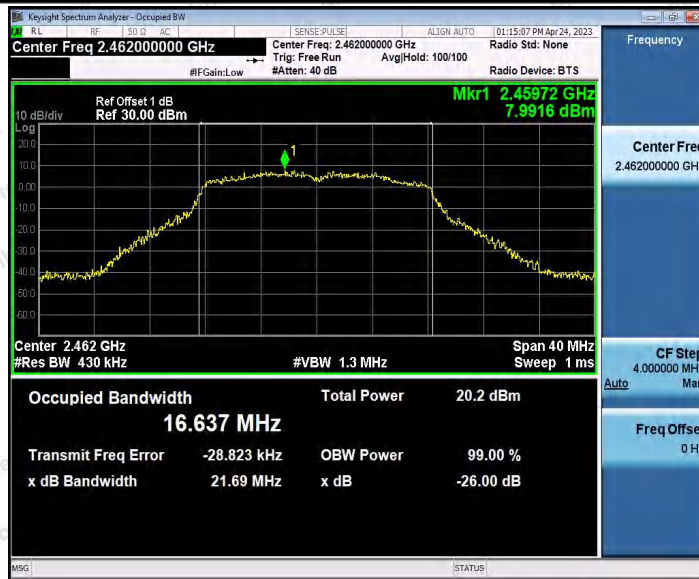
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11G_Ant2_2462



11N20SISO_Ant1_2412

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11N20SISO_Ant2_2462



11N40SISO_Ant1_2422

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11N40SISO_Ant2_2422



11N40SISO_Ant1_2437

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11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

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11N40SISO_Ant2_2452



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	21.25	≤30.00
	Ant2	2412	21.40	≤30.00
	Ant1	2437	22.21	≤30.00
	Ant2	2437	22.26	≤30.00
	Ant1	2462	20.05	≤30.00
	Ant2	2462	20.02	≤30.00
11G	Ant1	2412	22.56	≤30.00
	Ant2	2412	23.97	≤30.00
	Ant1	2437	25.71	≤30.00
	Ant2	2437	25.58	≤30.00
	Ant1	2462	21.20	≤30.00
	Ant2	2462	21.36	≤30.00
11N20SISO	Ant1	2412	18.07	≤30.00
	Ant2	2412	18.13	≤30.00
	Ant1	2437	18.10	≤30.00
	Ant2	2437	17.95	≤30.00
	Ant1	2462	18.13	≤30.00
	Ant2	2462	17.89	≤30.00
11N40SISO	Ant1	2422	18.83	≤30.00
	Ant2	2422	16.38	≤30.00
	Ant1	2437	18.85	≤30.00
	Ant2	2437	16.21	≤30.00
	Ant1	2452	19.07	≤30.00
	Ant2	2452	16.19	≤30.00

MIMO

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11N20	Ant1+Ant2	2412	21.11	≤30	PASS
	Ant1+Ant2	2437	21.04	≤30	PASS
	Ant1+Ant2	2462	21.02	≤30	PASS
11N40	Ant1+Ant2	2422	20.79	≤30	PASS
	Ant1+Ant2	2437	20.74	≤30	PASS
	Ant1+Ant2	2452	20.87	≤30	PASS



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-3.36	≤8.00	PASS
	Ant2	2412	-4.08	≤8.00	PASS
	Ant1	2437	-2.46	≤8.00	PASS
	Ant2	2437	-2.5	≤8.00	PASS
	Ant1	2462	-5.91	≤8.00	PASS
	Ant2	2462	-5.65	≤8.00	PASS
11G	Ant1	2412	-9.23	≤8.00	PASS
	Ant2	2412	-7.24	≤8.00	PASS
	Ant1	2437	-6.4	≤8.00	PASS
	Ant2	2437	-5.41	≤8.00	PASS
	Ant1	2462	-10.69	≤8.00	PASS
	Ant2	2462	-10.38	≤8.00	PASS
11N20SISO	Ant1	2412	-13.32	≤8.00	PASS
	Ant2	2412	-13.8	≤8.00	PASS
	Ant1	2437	-13.76	≤8.00	PASS
	Ant2	2437	-13.51	≤8.00	PASS
	Ant1	2462	-12.99	≤8.00	PASS
	Ant2	2462	-13.51	≤8.00	PASS
11N40SISO	Ant1	2422	-13.68	≤8.00	PASS
	Ant2	2422	-16.66	≤8.00	PASS
	Ant1	2437	-13.82	≤8.00	PASS
	Ant2	2437	-16.05	≤8.00	PASS
	Ant1	2452	-12.33	≤8.00	PASS
	Ant2	2452	-16.22	≤8.00	PASS

MIMO

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	Ant1+Ant2	2412	-10.54	≤8	PASS
	Ant1+Ant2	2437	-10.62	≤8	PASS
	Ant1+Ant2	2462	-10.23	≤8	PASS
11N40	Ant1+Ant2	2422	-11.91	≤8	PASS
	Ant1+Ant2	2437	-11.78	≤8	PASS
	Ant1+Ant2	2452	-10.84	≤8	PASS

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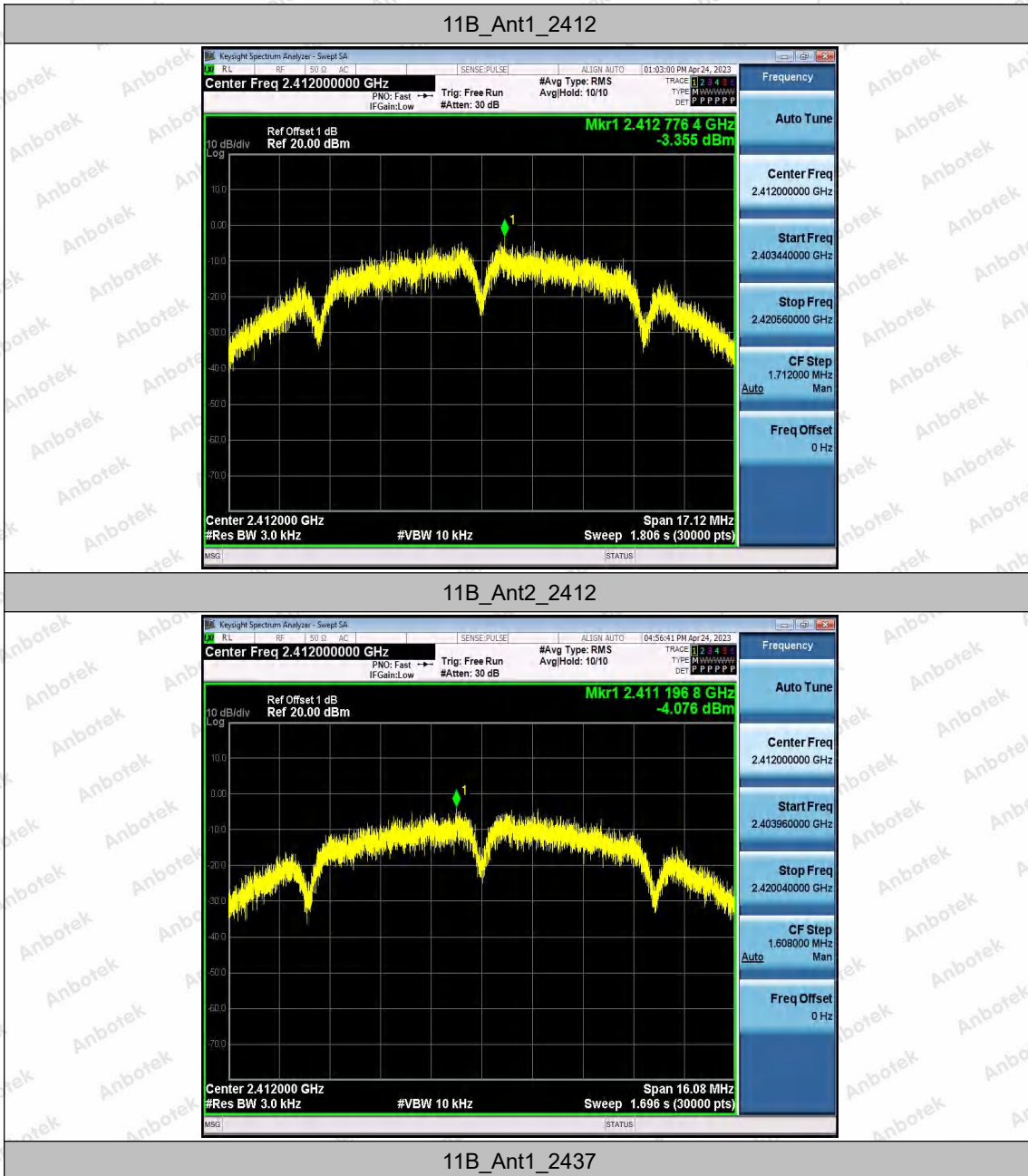
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Test Graphs



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462

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11B_Ant2_2462



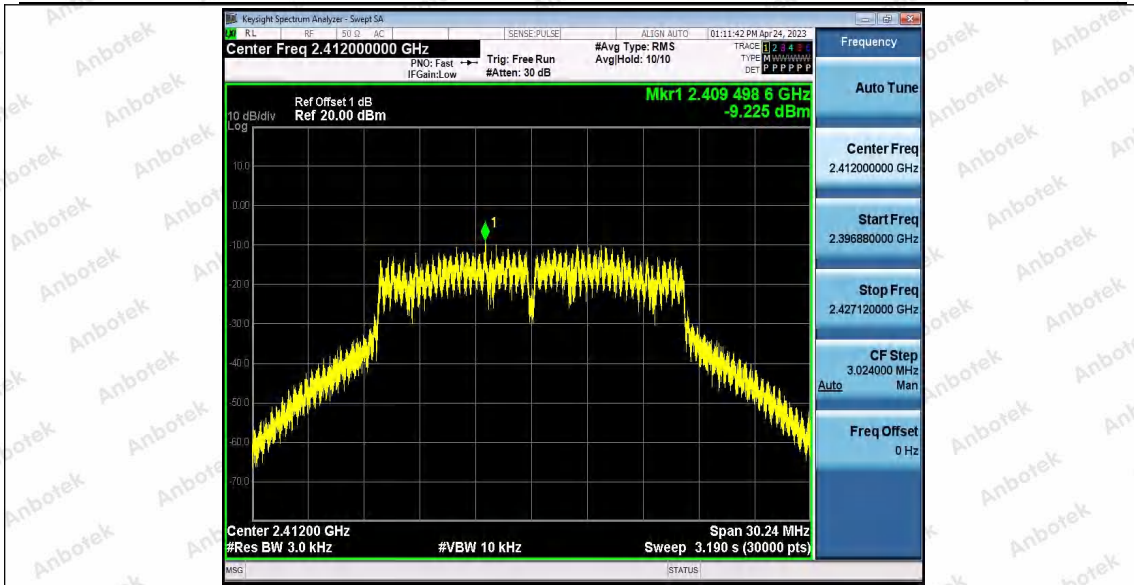
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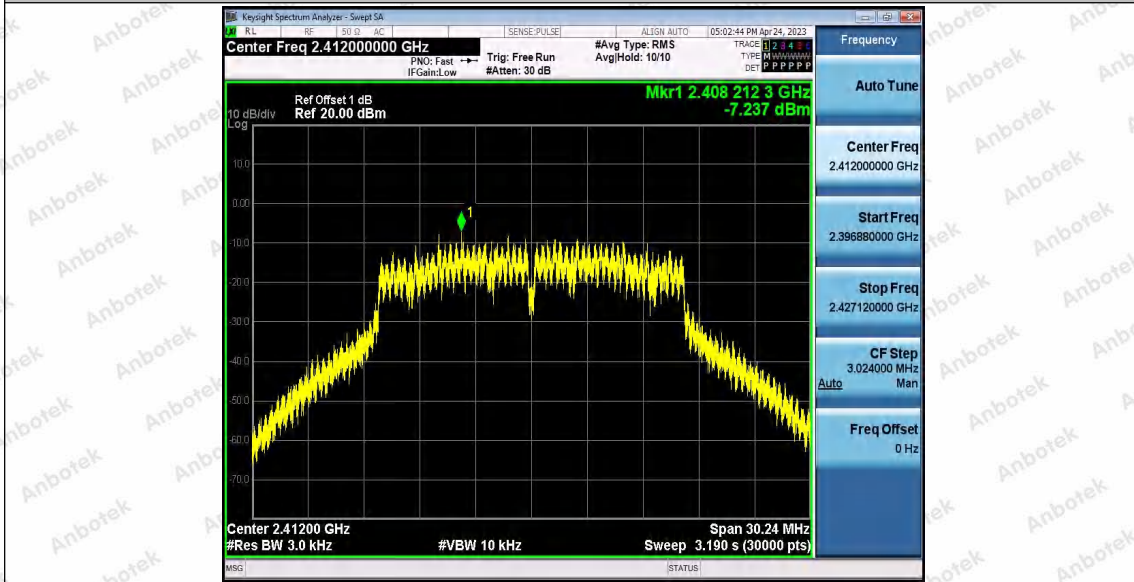
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11G_Ant2_2412



11G_Ant1_2437

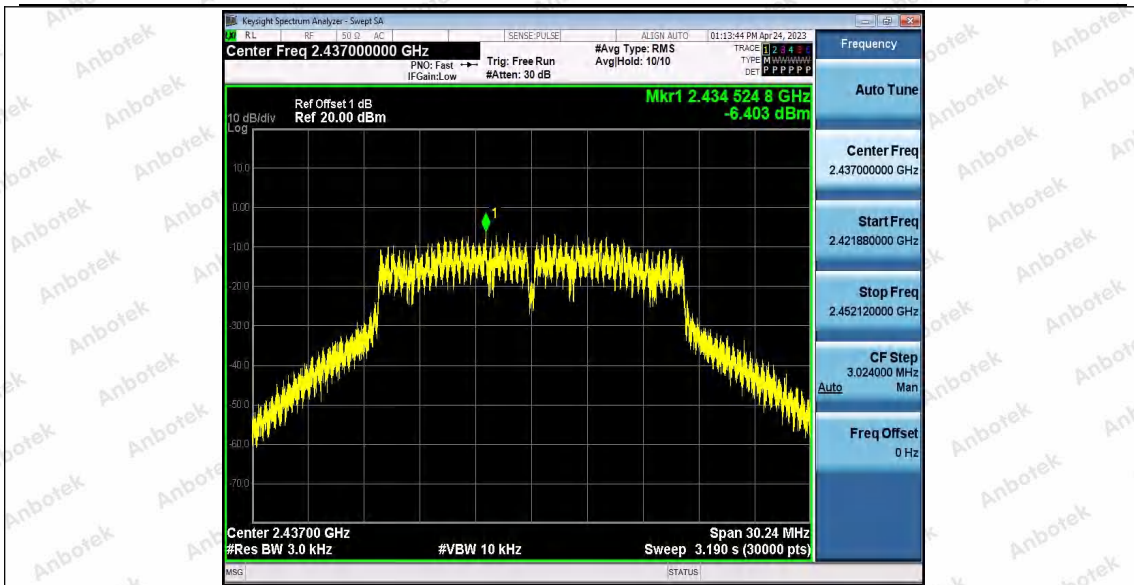
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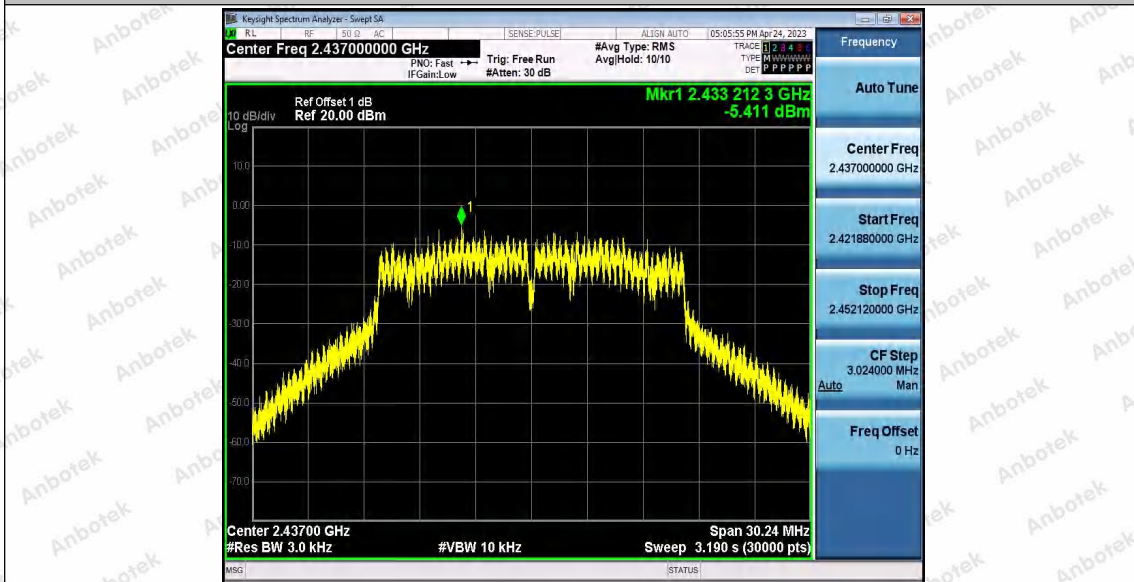


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11G_Ant2_2437



11G_Ant1_2462

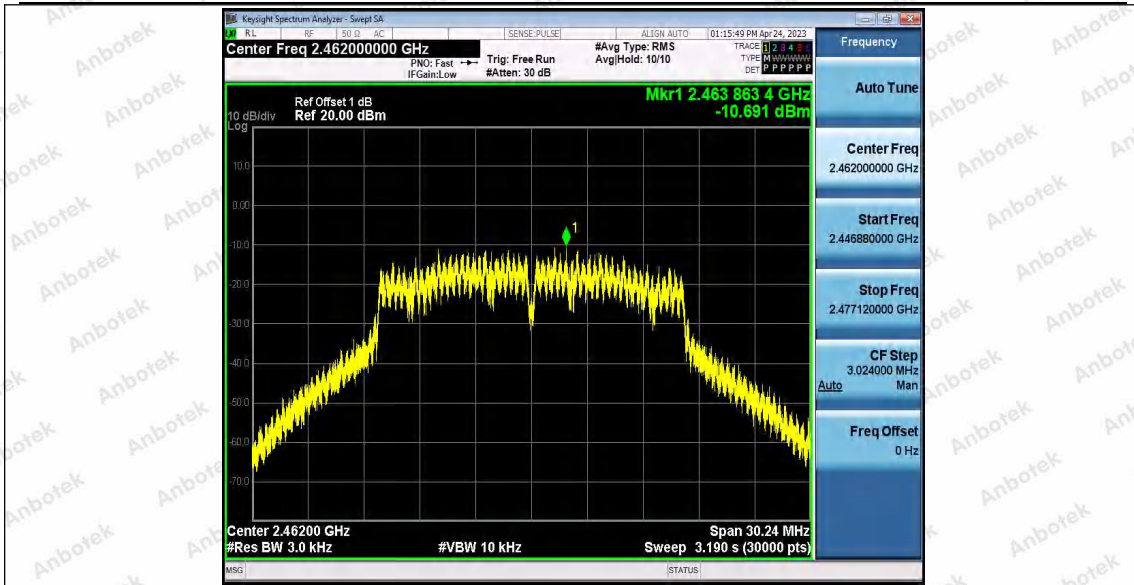
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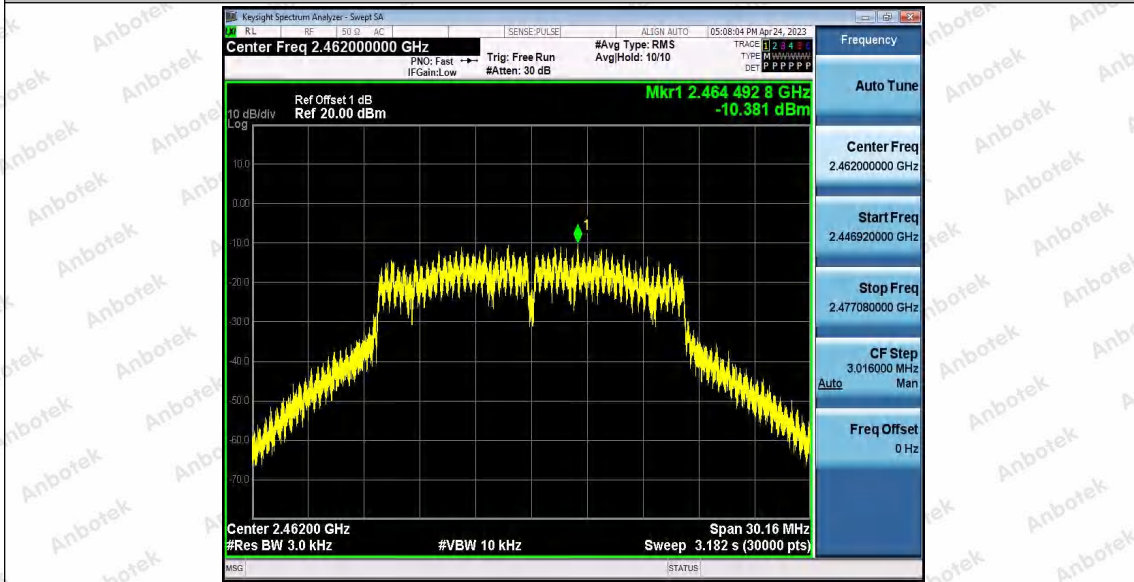


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11G_Ant2_2462



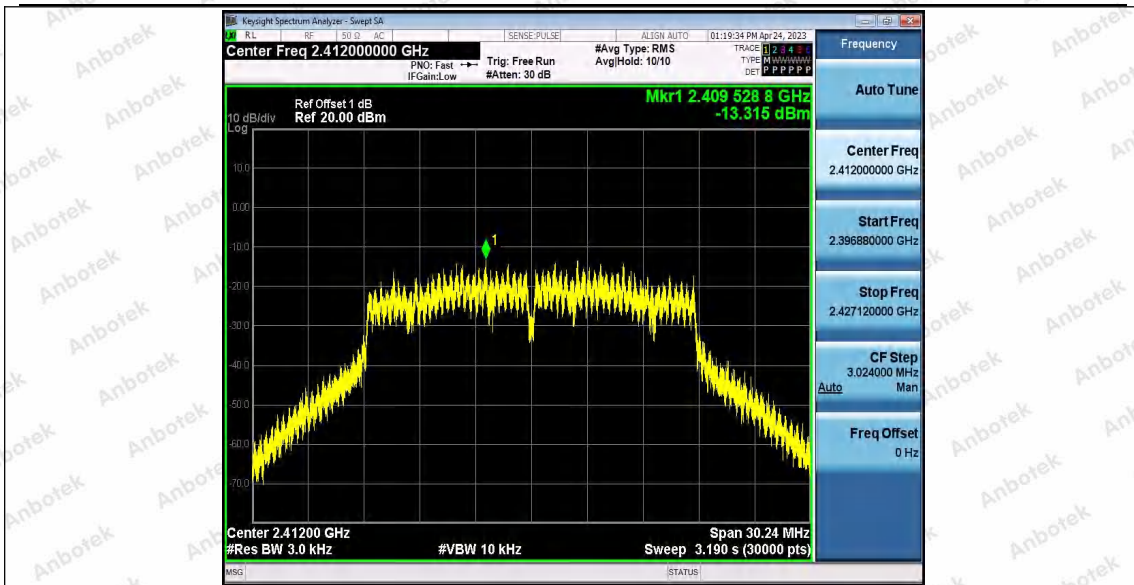
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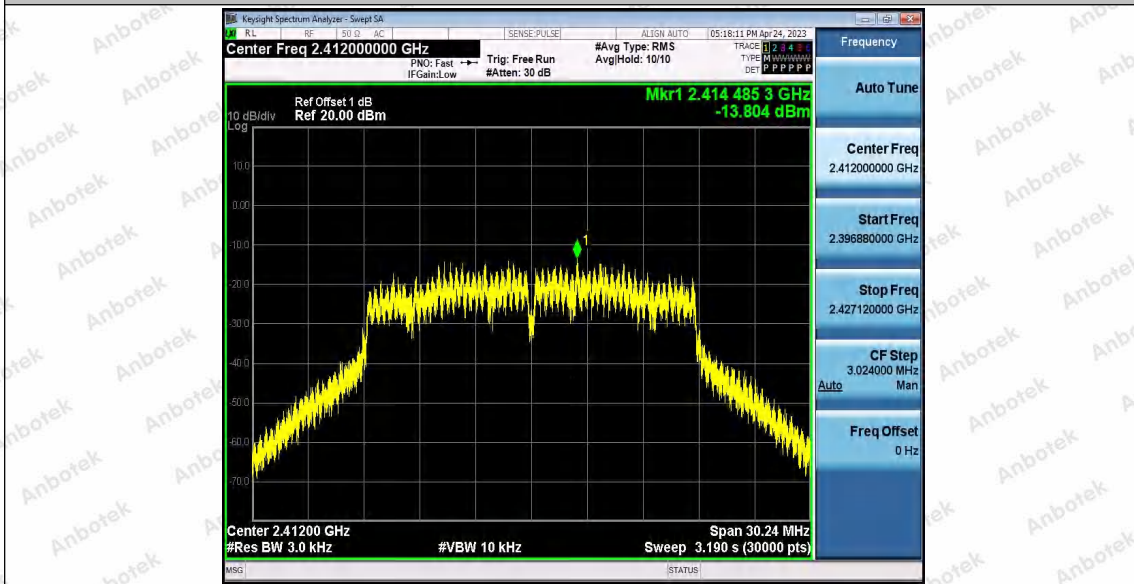
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11N20SISO_Ant2_2412



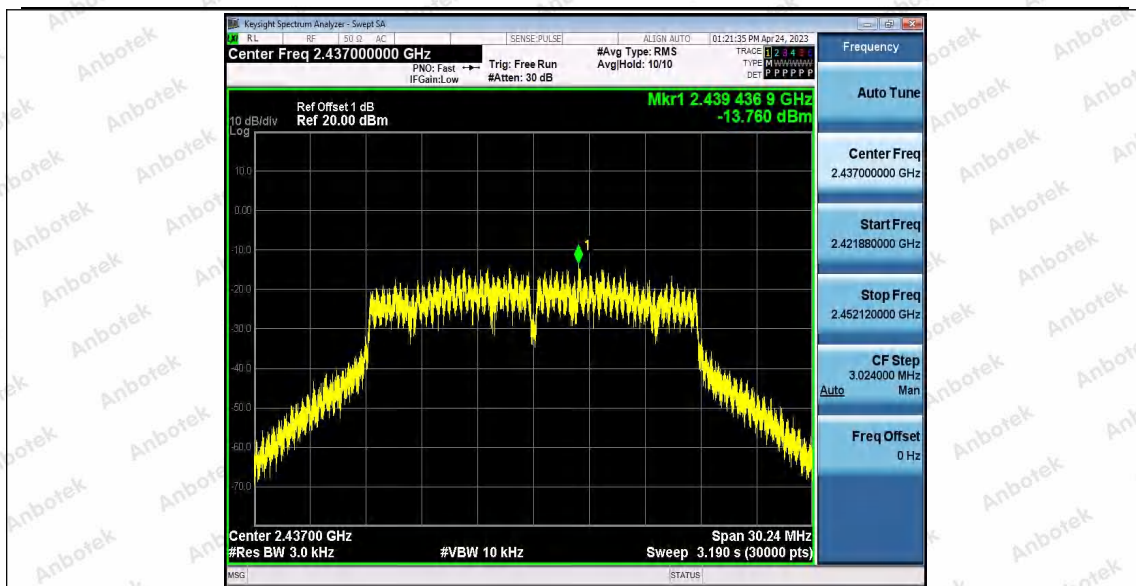
11N20SISO_Ant1_2437

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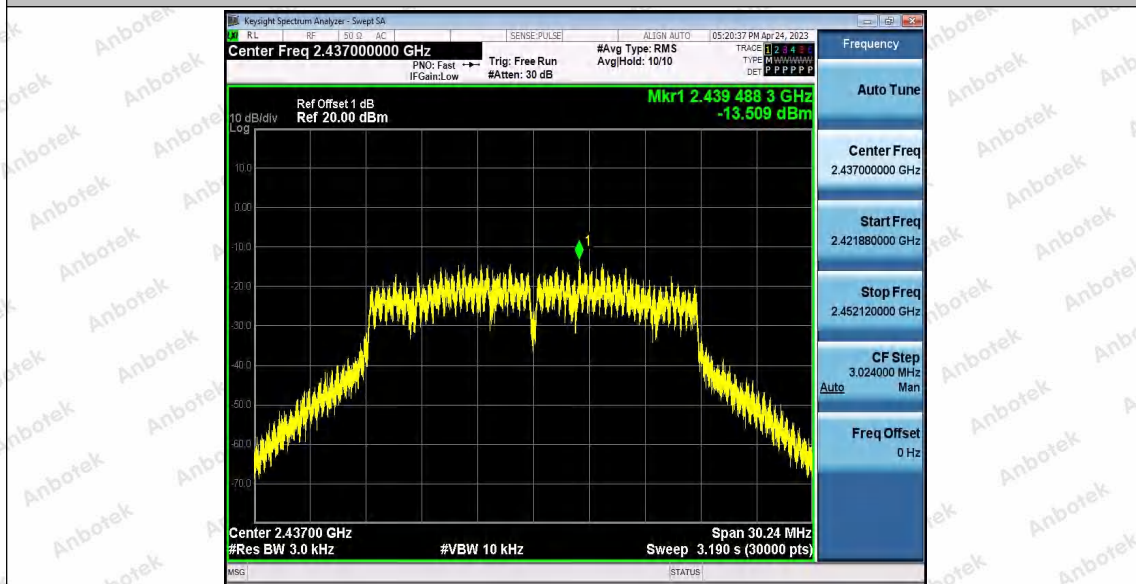
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11N20SISO_Ant2_2437



11N20SISO_Ant1_2462

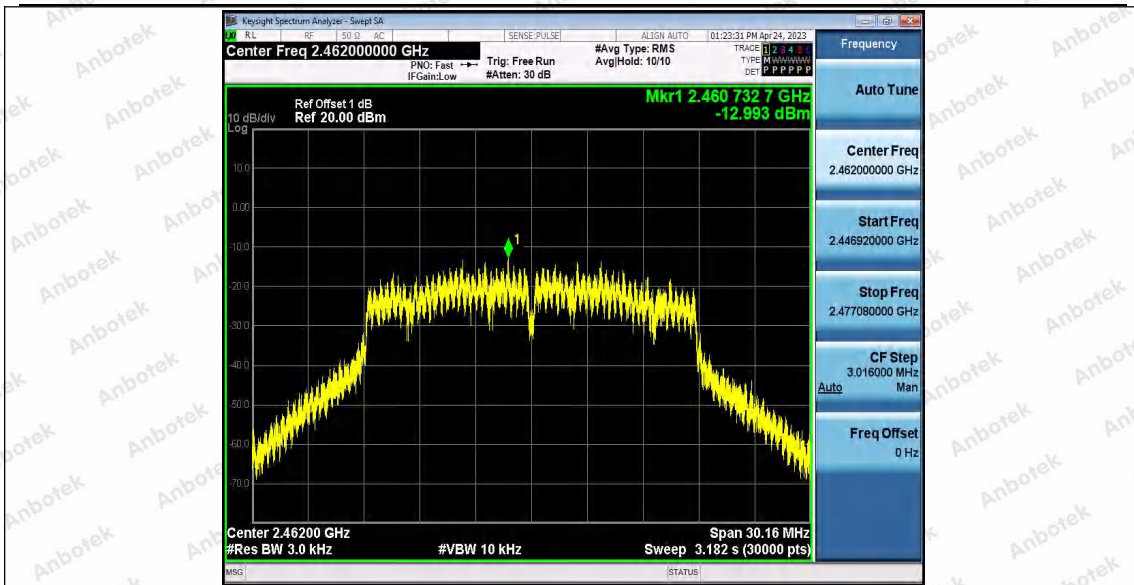
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

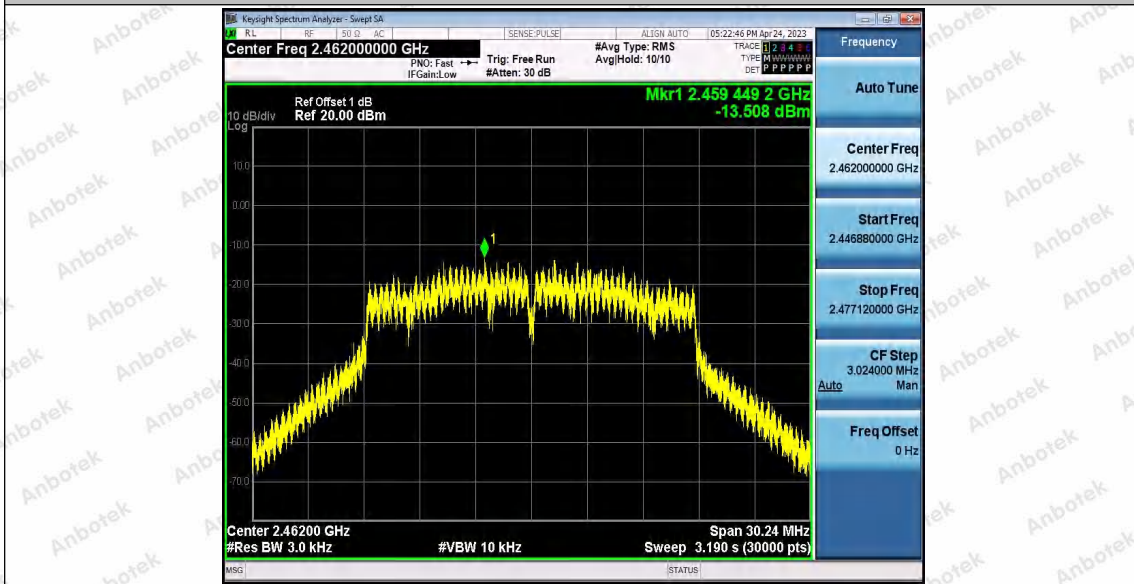


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11N20SISO_Ant2_2462



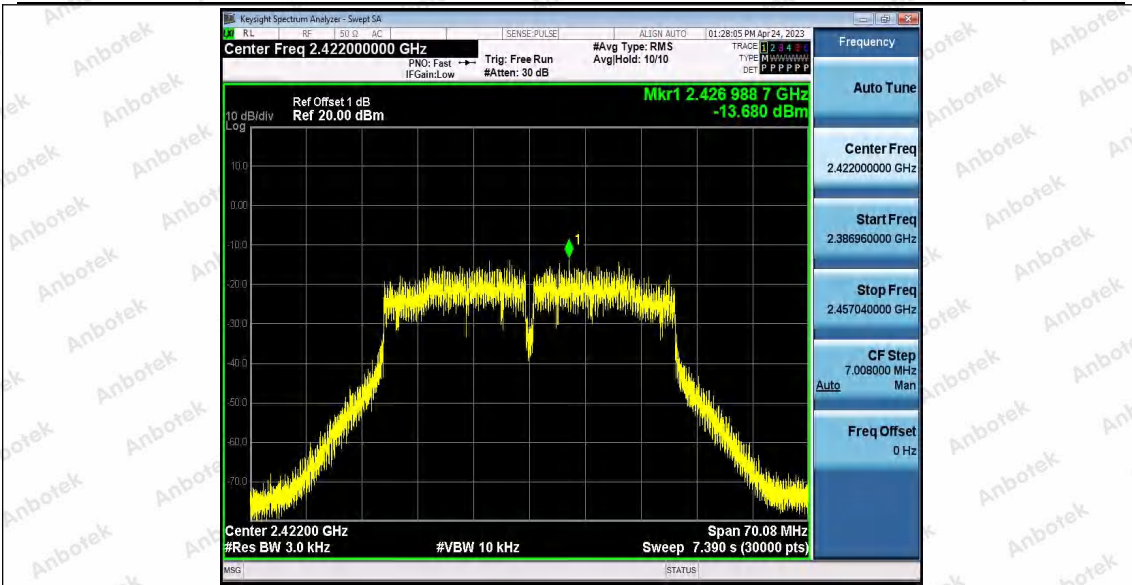
11N40SISO_Ant1_2422

Shenzhen Anbotek Compliance Laboratory Limited

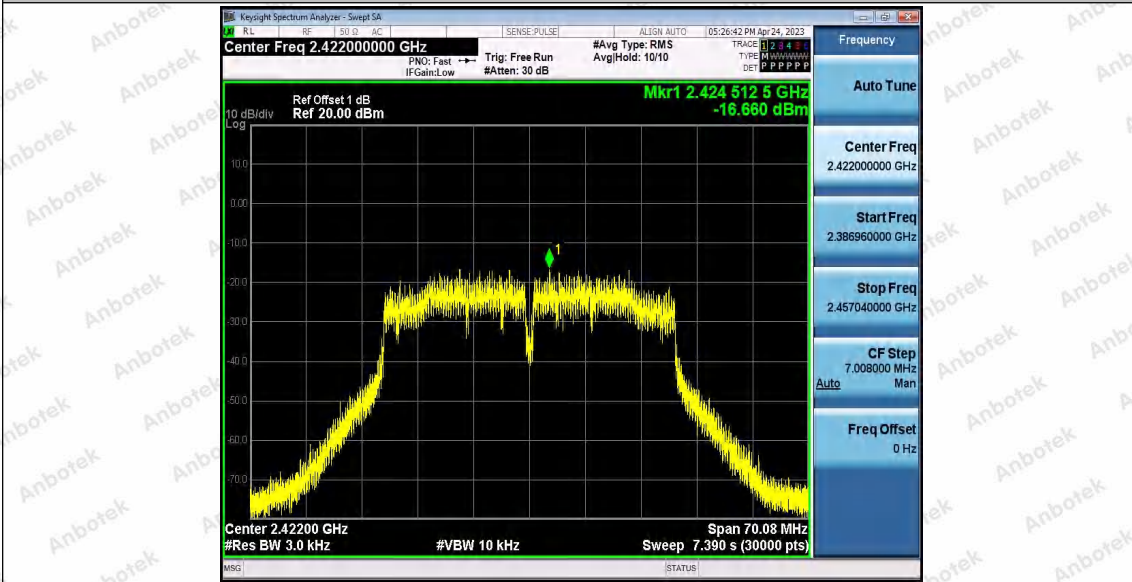
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N40SISO_Ant2_2422



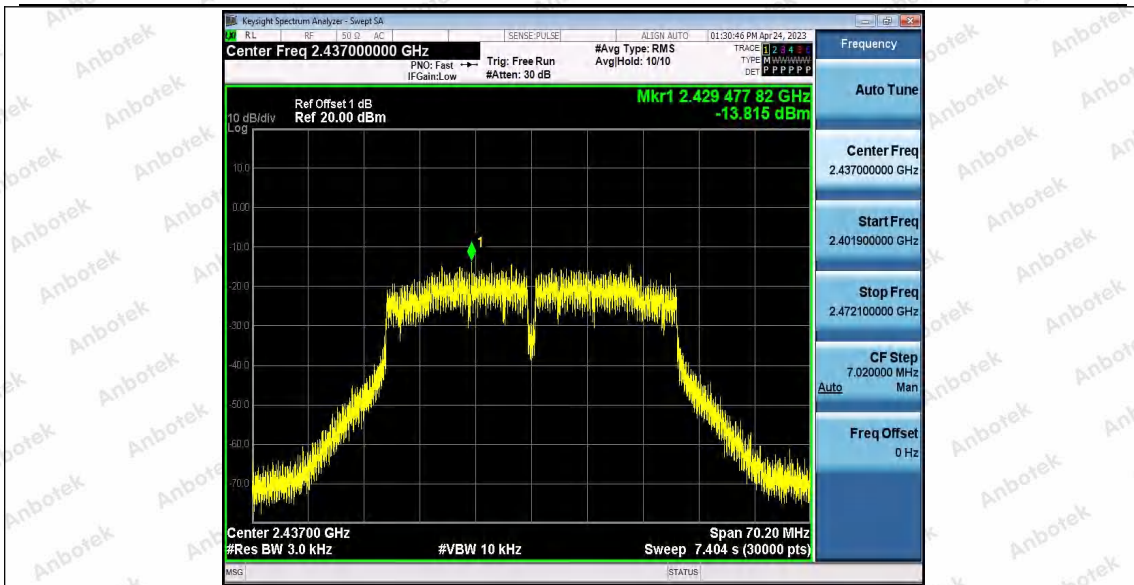
11N40SISO_Ant1_2437

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11N40SISO_Ant2_2437



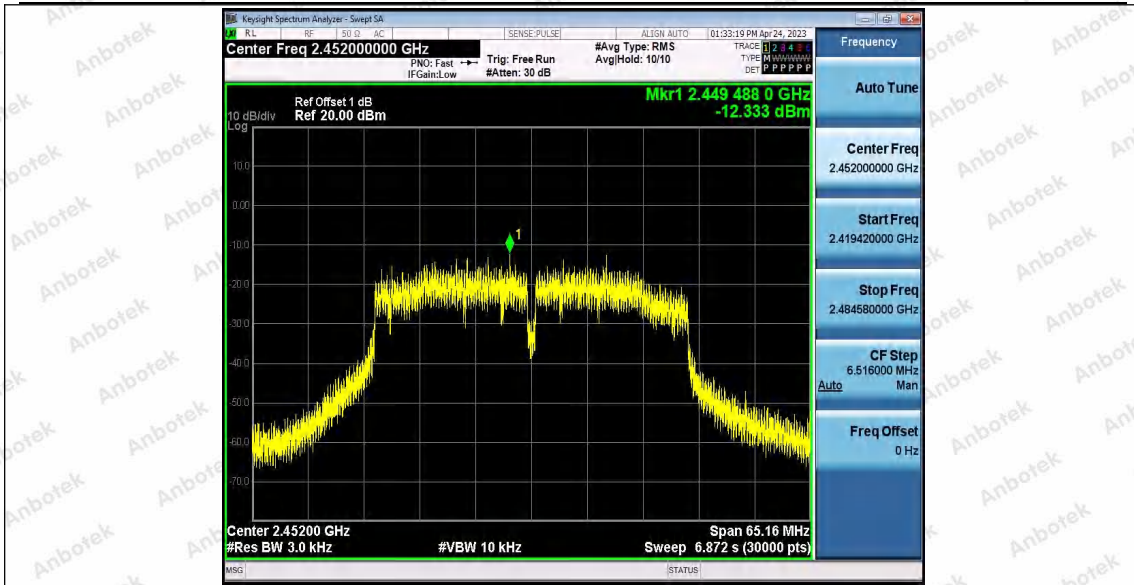
11N40SISO_Ant1_2452

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11N40SISO_Ant2_2452



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.49	-48.69	≤-10.51	PASS
	Ant2	Low	2412	9.72	-44.2	≤-10.28	PASS
	Ant1	High	2462	8.63	-51.96	≤-11.37	PASS
	Ant2	High	2462	8.60	-50.87	≤-11.4	PASS
11G	Ant1	Low	2412	6.14	-26.07	≤-13.86	PASS
	Ant2	Low	2412	7.14	-24.49	≤-12.86	PASS
	Ant1	High	2462	4.74	-48.93	≤-15.26	PASS
	Ant2	High	2462	4.97	-48.44	≤-15.03	PASS
11N20SISO	Ant1	Low	2412	1.64	-30.46	≤-18.37	PASS
	Ant2	Low	2412	1.54	-32.24	≤-18.46	PASS
	Ant1	High	2462	1.84	-53.1	≤-18.16	PASS
	Ant2	High	2462	1.68	-52.81	≤-18.32	PASS
11N40SISO	Ant1	Low	2422	0.90	-29.67	≤-19.1	PASS
	Ant2	Low	2422	-1.63	-31.75	≤-21.63	PASS
	Ant1	High	2452	1.18	-39.03	≤-18.82	PASS
	Ant2	High	2452	-1.61	-46.53	≤-21.61	PASS

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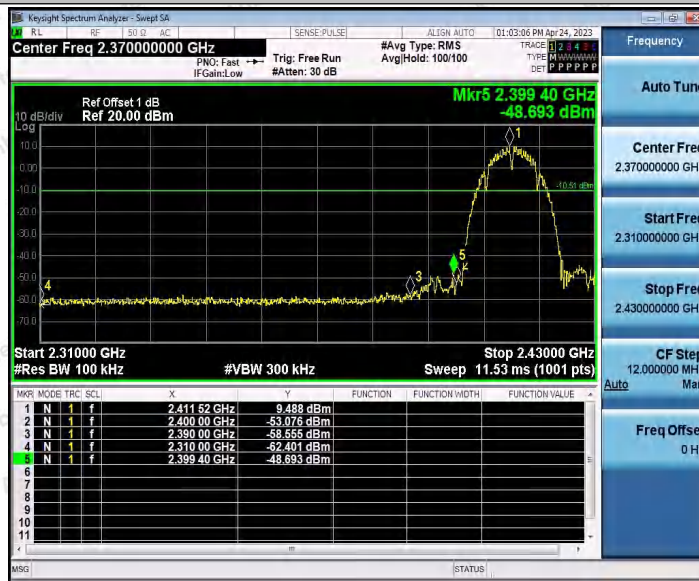


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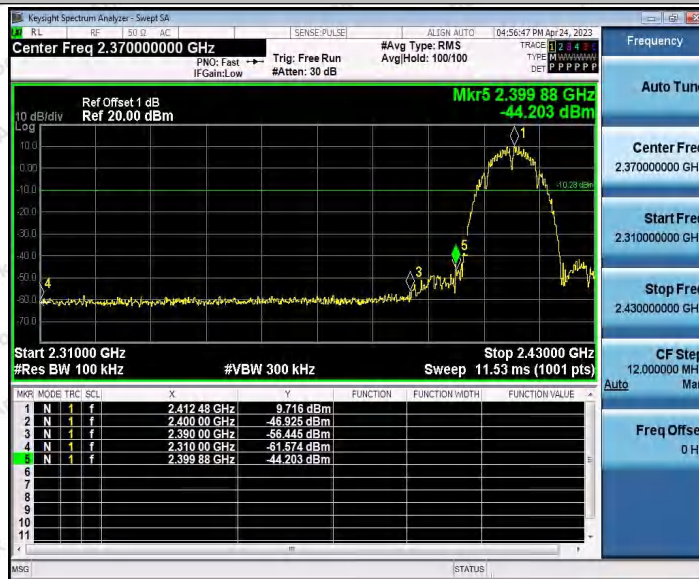


Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



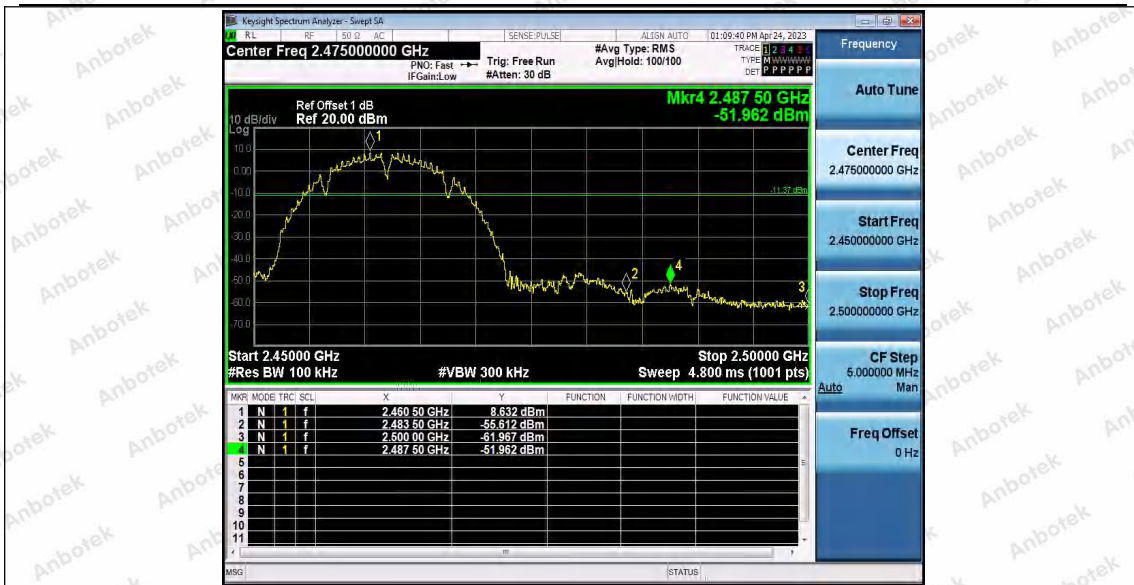
11B_Ant1_High_2462

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11B_Ant2_High_2462



11G_Ant1_Low_2412

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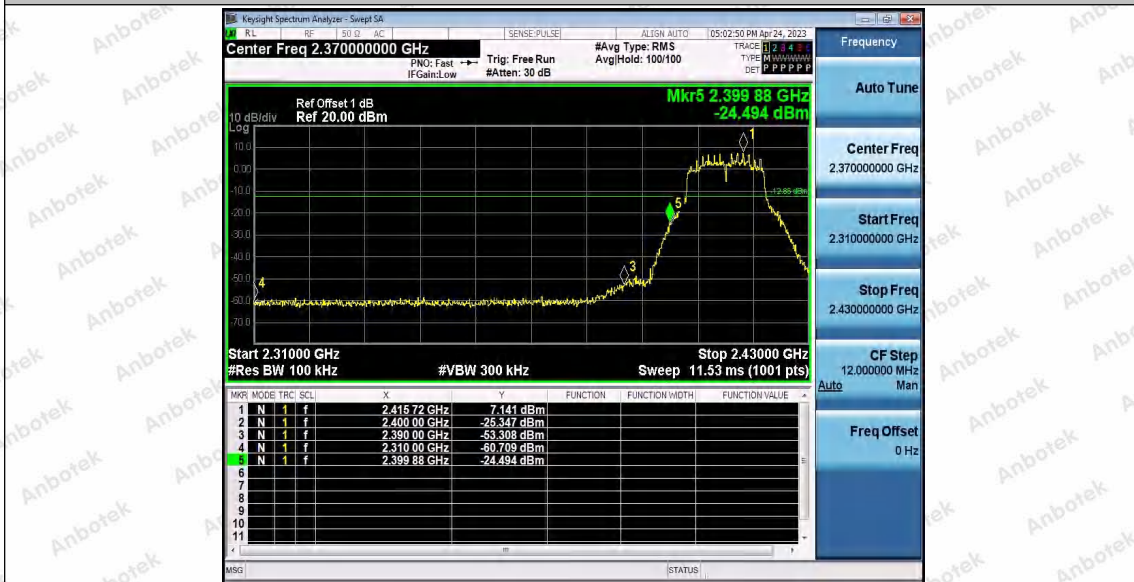
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11G_Ant2_Low_2412



11G_Ant1_High_2462

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11G_Ant2_High_2462



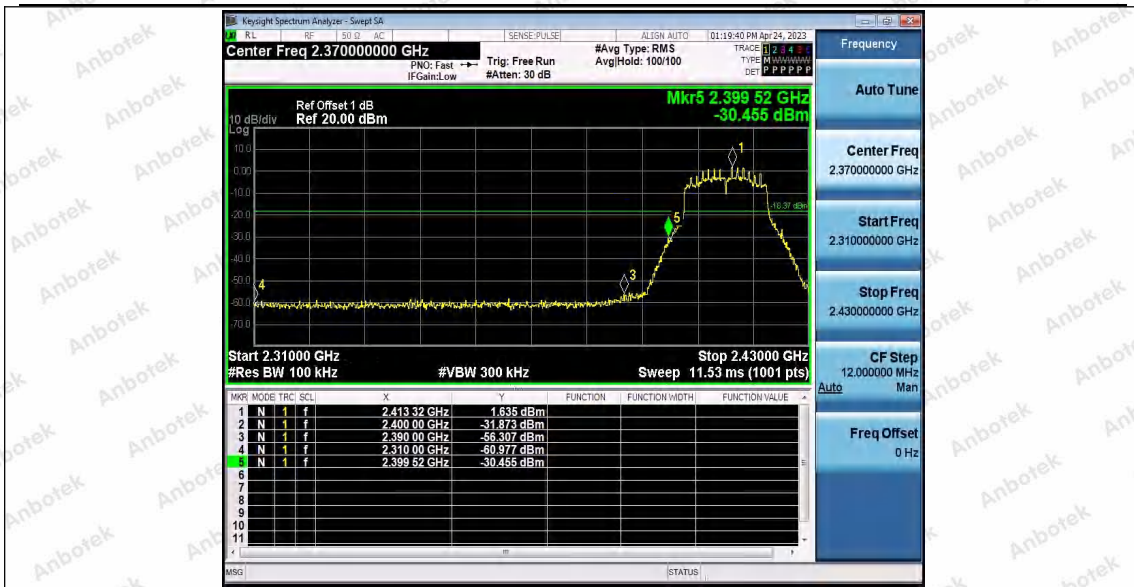
11N20SISO_Ant1_Low_2412

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11N20SISO_Ant1_High_2462

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11N20SISO_Ant2_High_2462



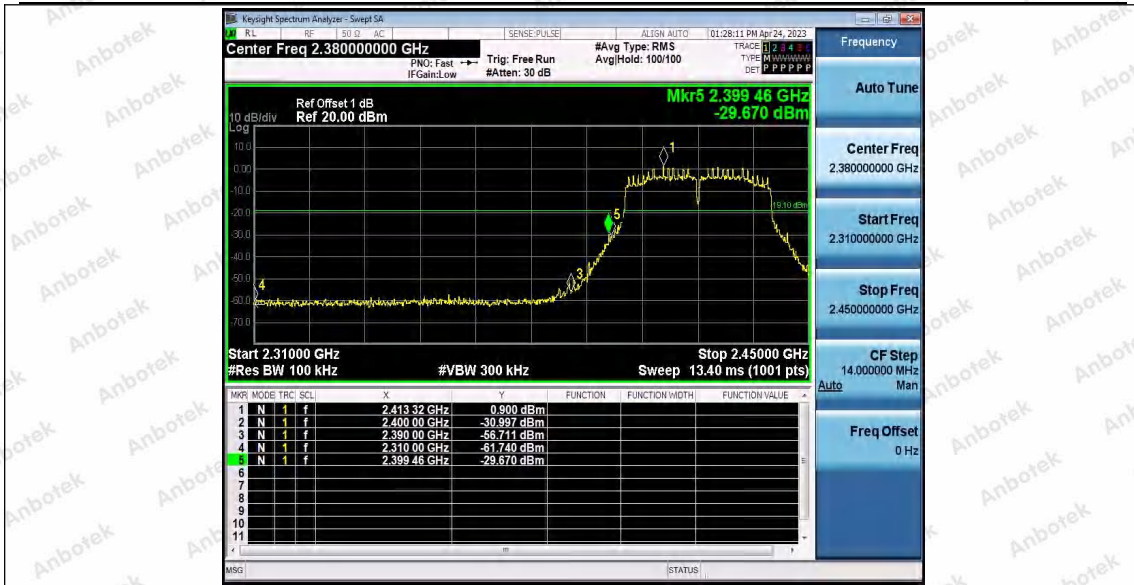
11N40SISO_Ant1_Low_2422

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11N40SISO_Ant2_Low_2422



11N40SISO_Ant1_High_2452

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11N40SISO_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	8.95	8.95	---	PASS	
			30~1000	8.95	-67.31	≤-11.05	PASS	
			1000~26500	8.95	-52.07	≤-11.05	PASS	
	Ant2	2412	Reference	9.71	9.71	---	PASS	
			30~1000	9.71	-68.76	≤-10.29	PASS	
			1000~26500	9.71	-53.69	≤-10.29	PASS	
	Ant1	2437	Reference	10.96	10.96	---	PASS	
			30~1000	10.96	-67.92	≤-9.04	PASS	
			1000~26500	10.96	-53.38	≤-9.04	PASS	
	Ant2	2437	Reference	10.73	10.73	---	PASS	
			30~1000	10.73	-67.22	≤-9.27	PASS	
			1000~26500	10.73	-53.44	≤-9.27	PASS	
	Ant1	2462	Reference	8.52	8.52	---	PASS	
			30~1000	8.52	-68.55	≤-11.48	PASS	
			1000~26500	8.52	-53.07	≤-11.48	PASS	
	Ant2	2462	Reference	8.09	8.09	---	PASS	
			30~1000	8.09	-67.48	≤-11.91	PASS	
			1000~26500	8.09	-53.57	≤-11.91	PASS	
	11G	Ant1	2412	Reference	5.69	5.69	---	PASS
				30~1000	5.69	-68.67	≤-14.31	PASS
				1000~26500	5.69	-53.43	≤-14.31	PASS
		Ant2	2412	Reference	6.58	6.58	---	PASS
				30~1000	6.58	-68.1	≤-13.42	PASS
				1000~26500	6.58	-53.6	≤-13.42	PASS
Ant1		2437	Reference	8.53	8.53	---	PASS	
			30~1000	8.53	-68.03	≤-11.47	PASS	
			1000~26500	8.53	-52.84	≤-11.47	PASS	
Ant2		2437	Reference	8.54	8.54	---	PASS	
			30~1000	8.54	-68.17	≤-11.46	PASS	
			1000~26500	8.54	-53.09	≤-11.46	PASS	
Ant1		2462	Reference	3.67	3.67	---	PASS	
			30~1000	3.67	-68.82	≤-16.33	PASS	
			1000~26500	3.67	-53.06	≤-16.33	PASS	
Ant2		2462	Reference	4.95	4.95	---	PASS	
			30~1000	4.95	-68.9	≤-15.05	PASS	
			1000~26500	4.95	-53.15	≤-15.05	PASS	

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