



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Outdoor Smart Outlet

Test Model: YT-M002

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li huan



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2408.000	2416.040	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.000	2458.000	2466.000	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.720	2429.120	2444.840	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	16.280	2428.480	2444.760	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.680	2419.080	2454.760	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS



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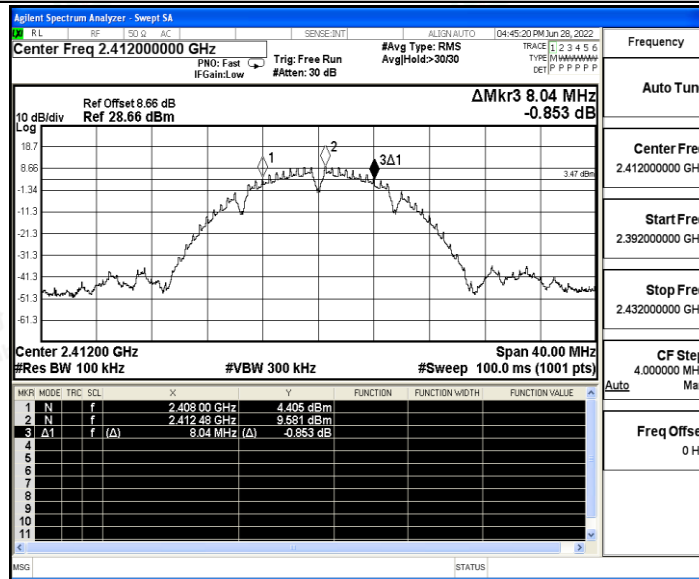
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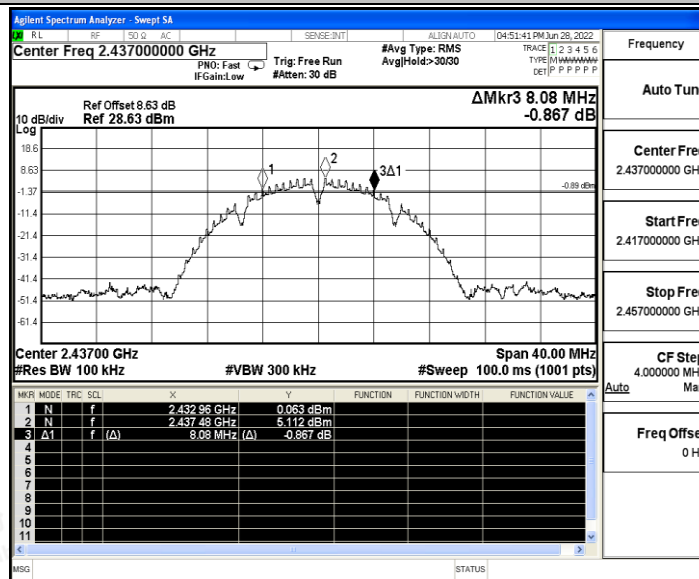


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

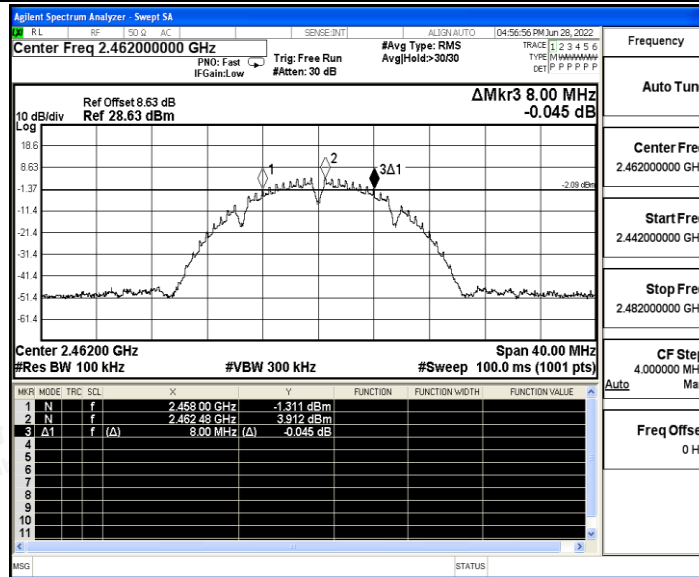


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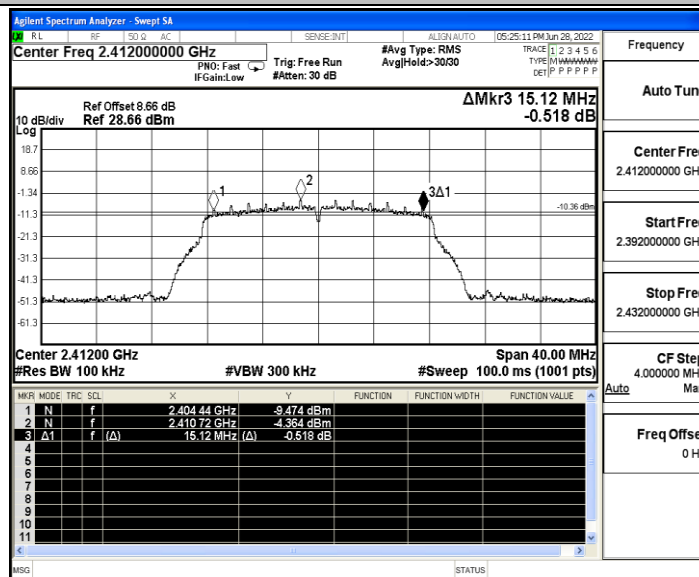
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11G_Ant1_2412



11G_Ant1_2437

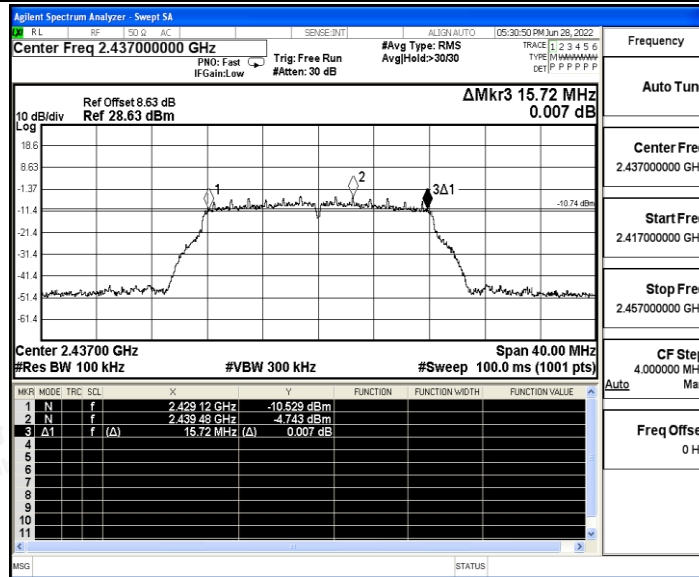


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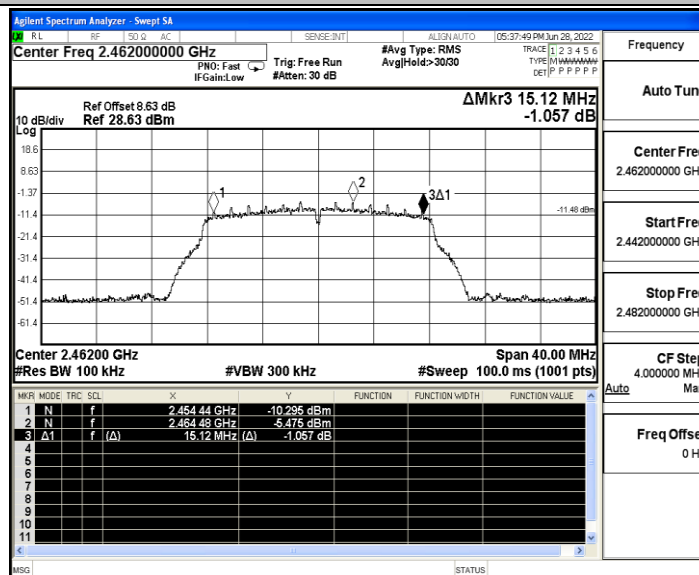
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11G_Ant1_2462



11N20SISO_Ant1_2412

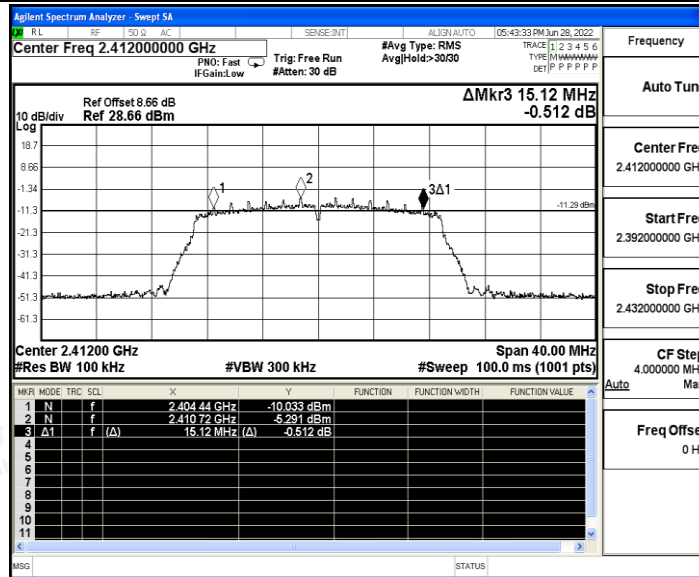


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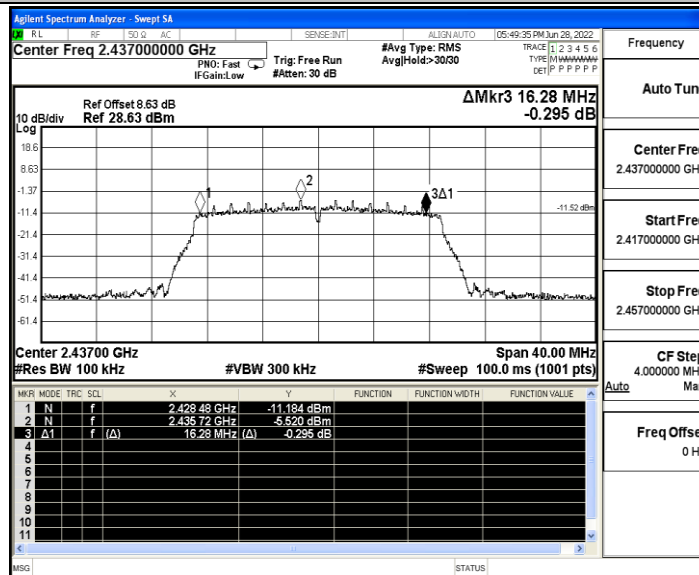
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

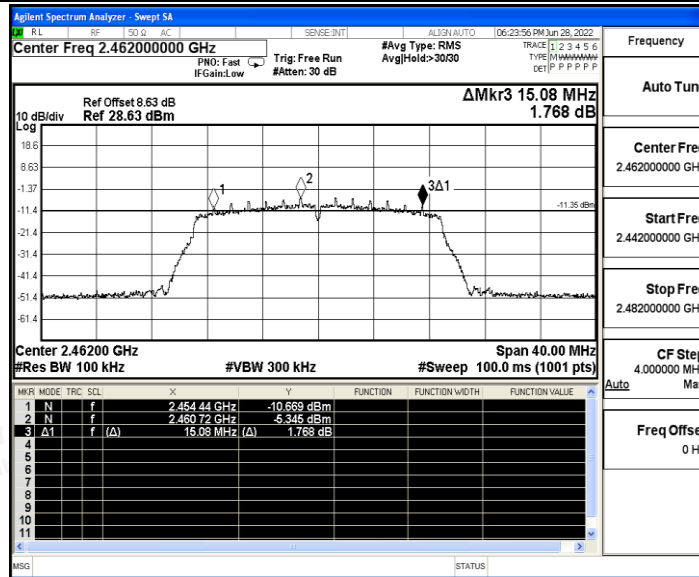


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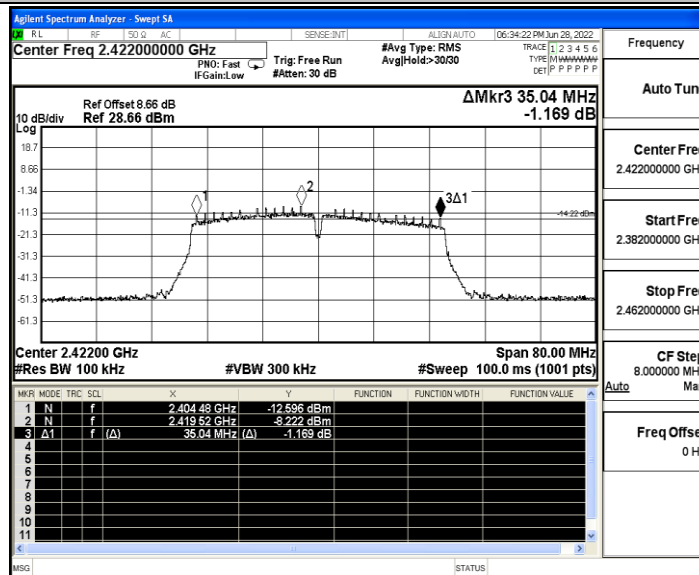
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

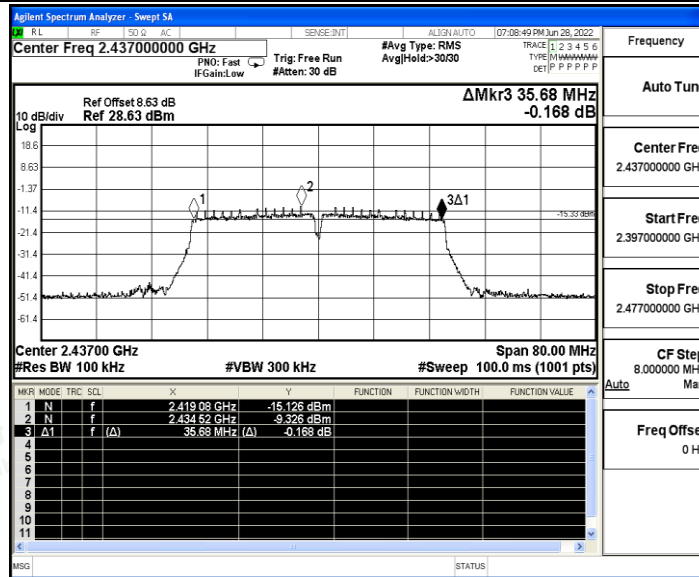


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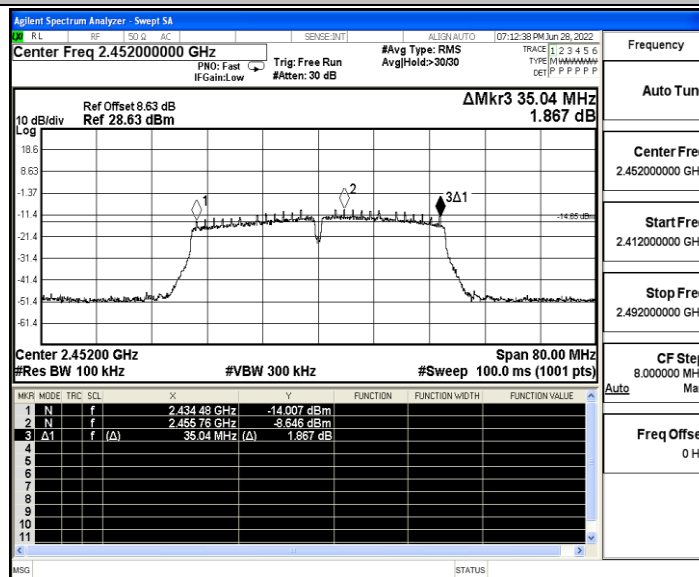
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11N40SISO_Ant1_2452



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.83	≤30.00	PASS
		2437	14.97	≤30.00	PASS
		2462	14.82	≤30.00	PASS
11G	Ant1	2412	14.07	≤30.00	PASS
		2437	14.16	≤30.00	PASS
		2462	13.02	≤30.00	PASS
11N20SISO	Ant1	2412	13.15	≤30.00	PASS
		2437	13.25	≤30.00	PASS
		2462	13.04	≤30.00	PASS
11N40SISO	Ant1	2422	12.64	≤30.00	PASS
		2437	12.50	≤30.00	PASS
		2452	12.57	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.10	≤8.00	PASS
		2437	-10.68	≤8.00	PASS
		2462	-11.24	≤8.00	PASS
11G	Ant1	2412	-18.34	≤8.00	PASS
		2437	-19.43	≤8.00	PASS
		2462	-19.4	≤8.00	PASS
11N20SISO	Ant1	2412	-18.89	≤8.00	PASS
		2437	-19	≤8.00	PASS
		2462	-20.26	≤8.00	PASS
11N40SISO	Ant1	2422	-22.42	≤8.00	PASS
		2437	-23.98	≤8.00	PASS
		2452	-24.03	≤8.00	PASS



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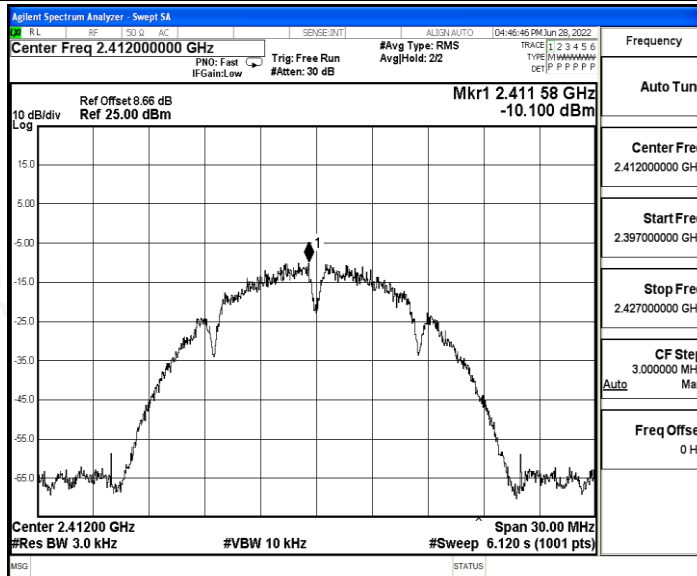
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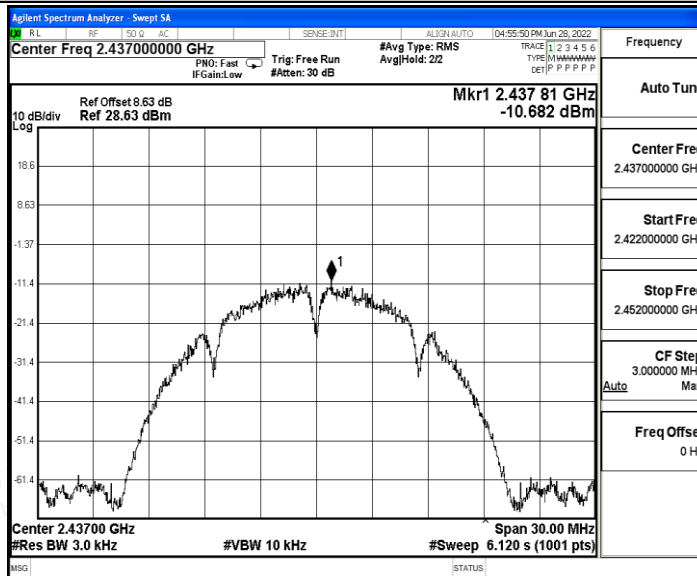


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

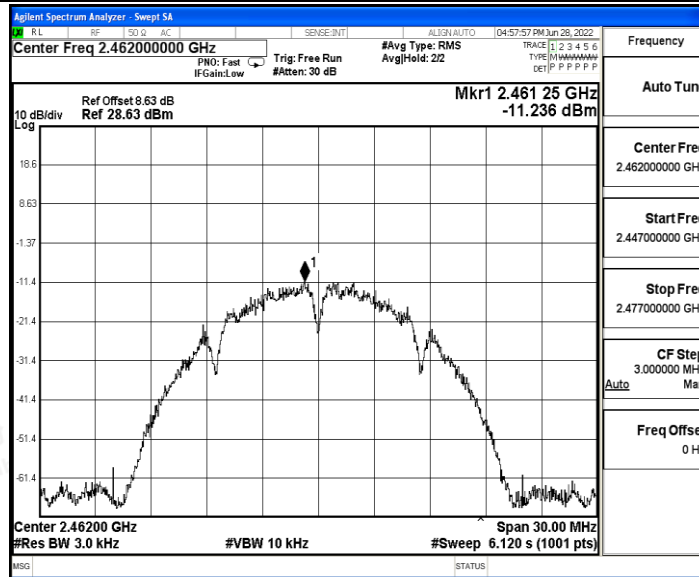


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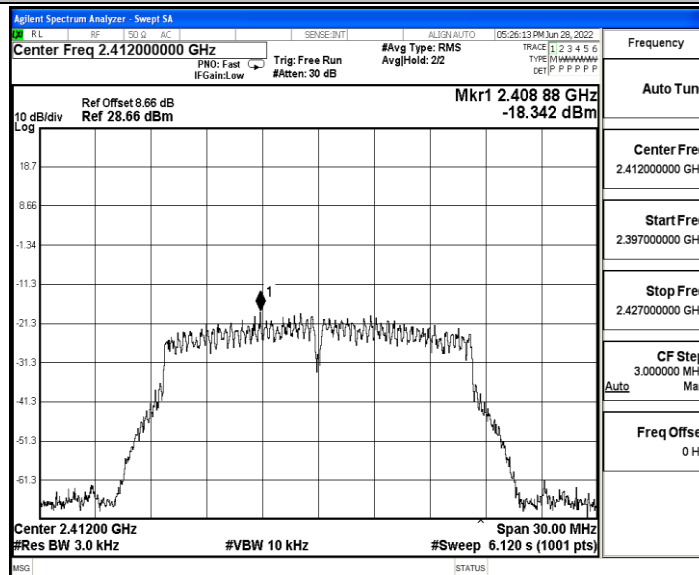
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11G_Ant1_2412



11G_Ant1_2437

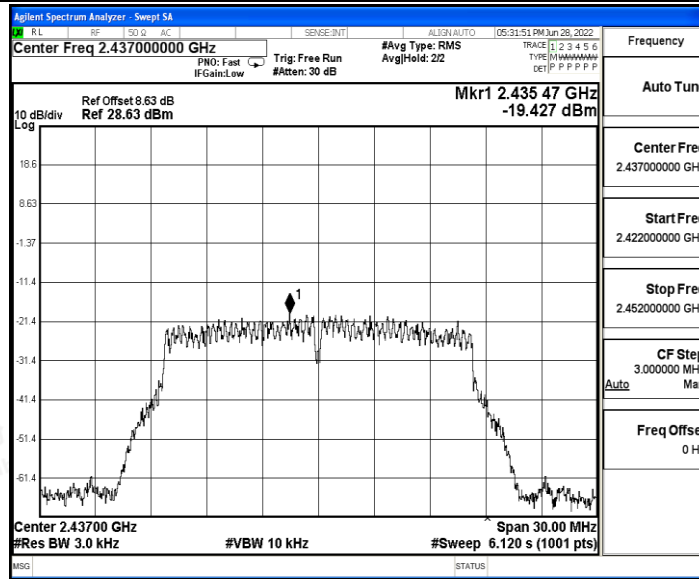


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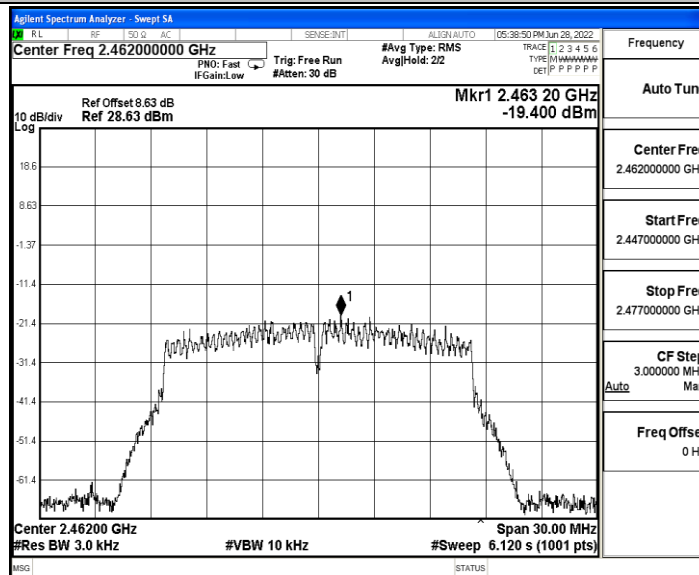
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11G_Ant1_2462



11N20SISO_Ant1_2412

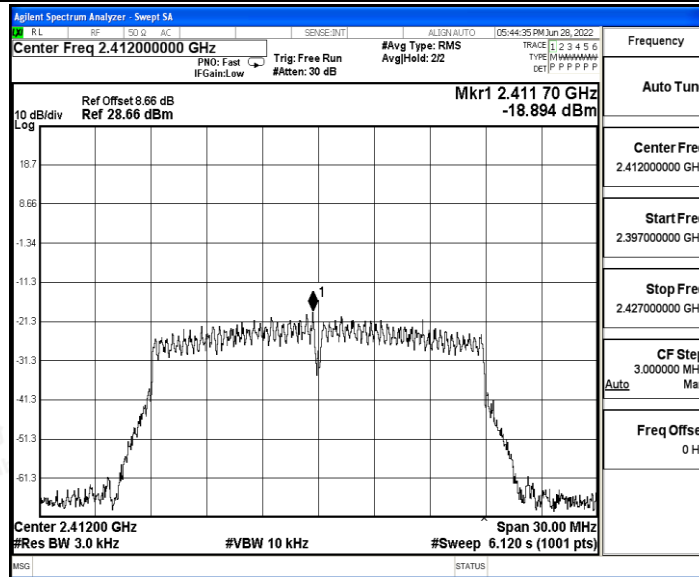


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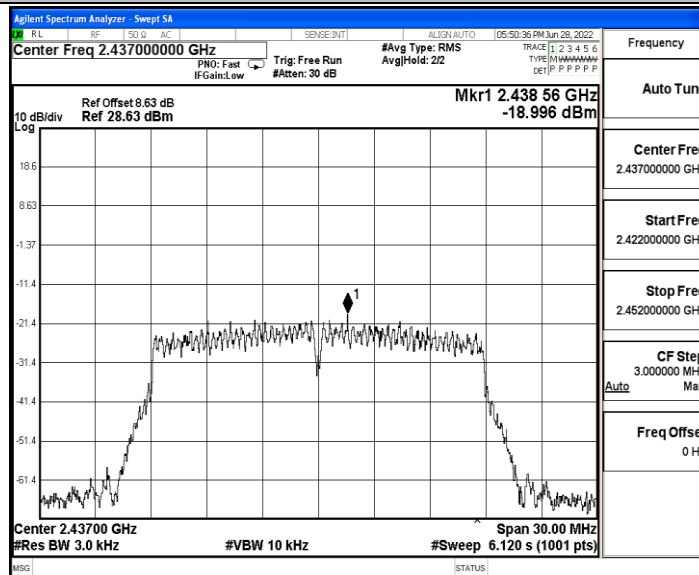
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

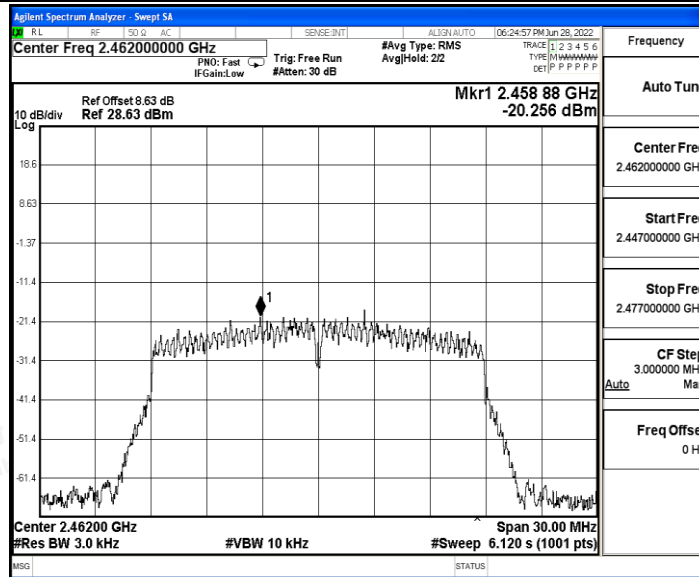


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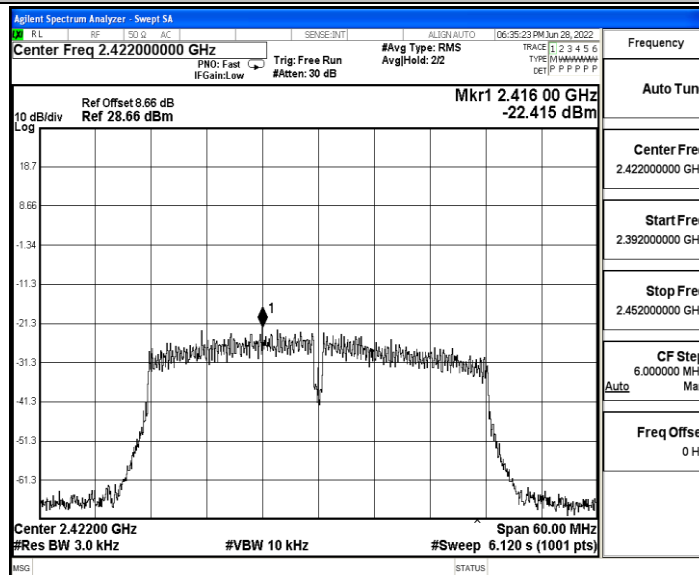
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

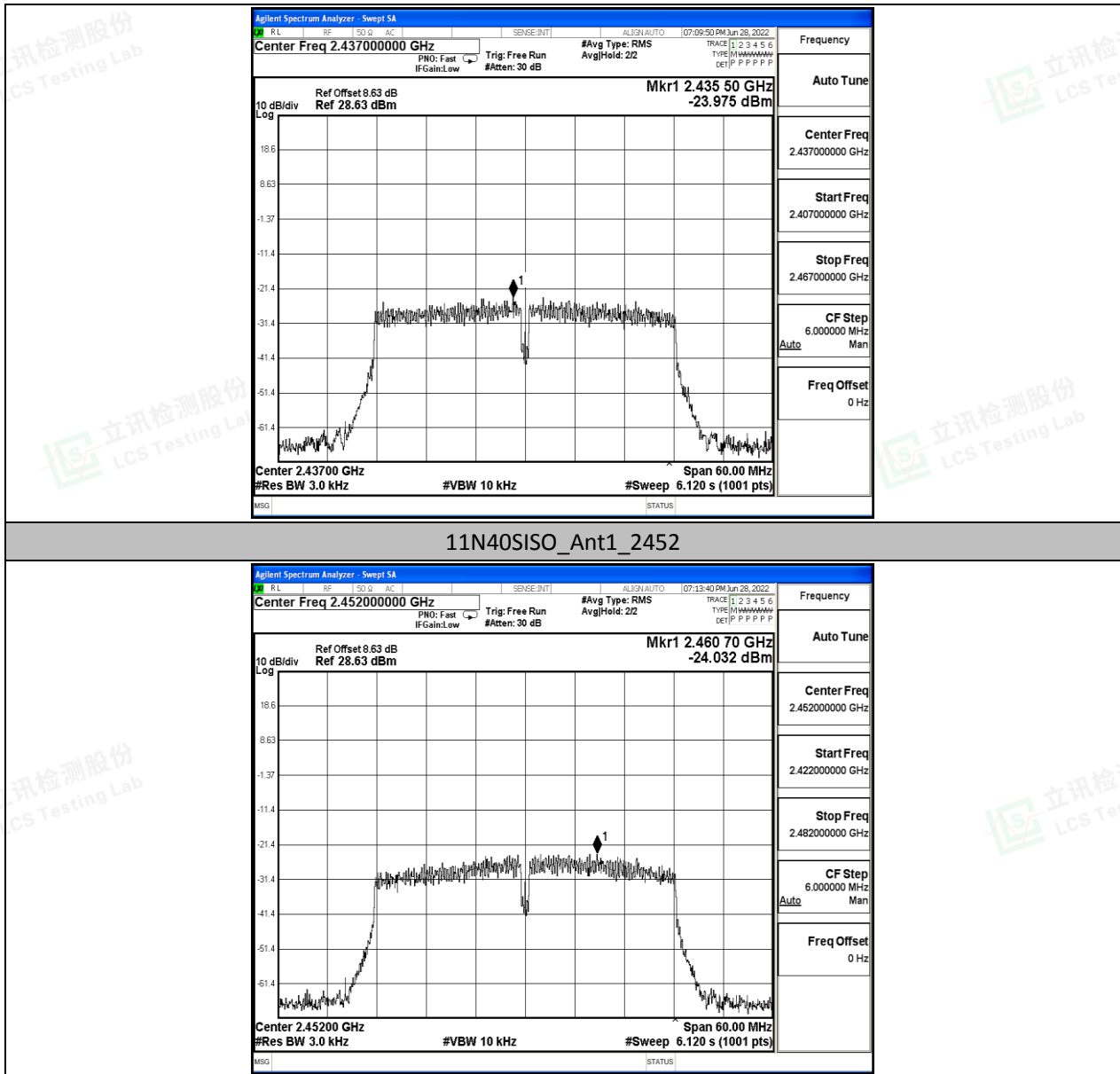


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.05	-46.57	≤ -14.95	PASS
		High	2462	4.11	-47.29	≤ -15.89	PASS
11G	Ant1	Low	2412	-4.27	-45.85	≤ -24.27	PASS
		High	2462	-5.05	-48.14	≤ -25.05	PASS
11N20SISO	Ant1	Low	2412	-4.74	-47.75	≤ -24.74	PASS
		High	2462	-4.87	-47.77	≤ -24.87	PASS
11N40SISO	Ant1	Low	2422	-8.19	-47.69	≤ -28.19	PASS
		High	2452	-8.61	-47.97	≤ -28.61	PASS



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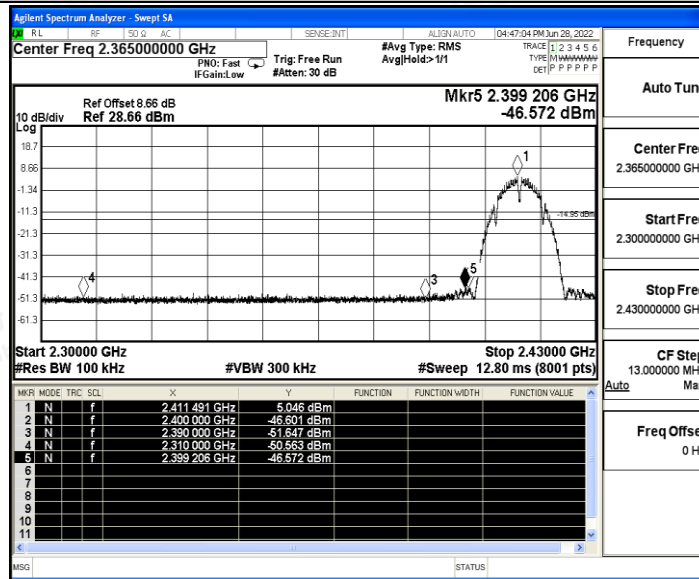
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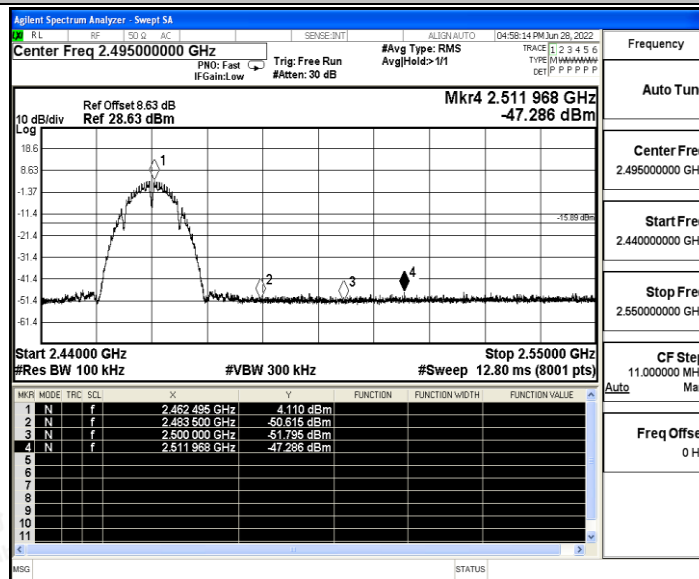


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

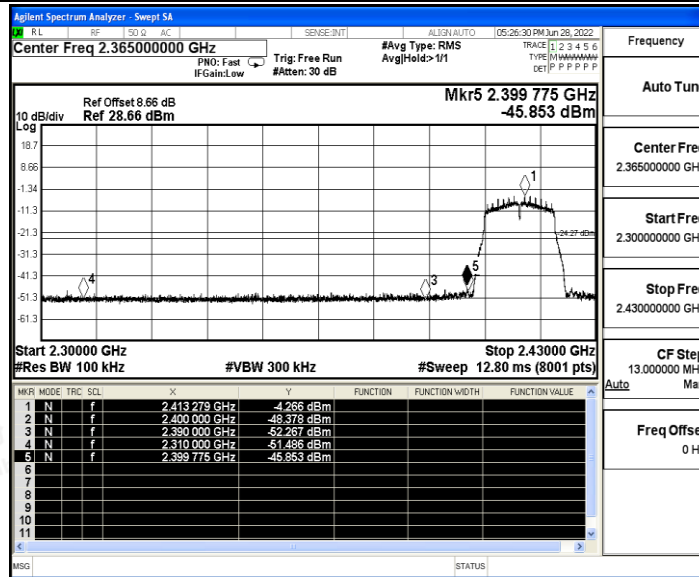


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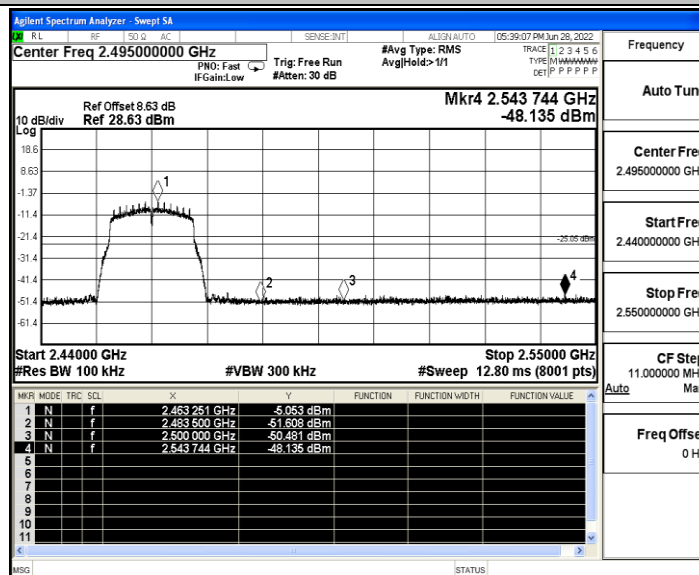
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

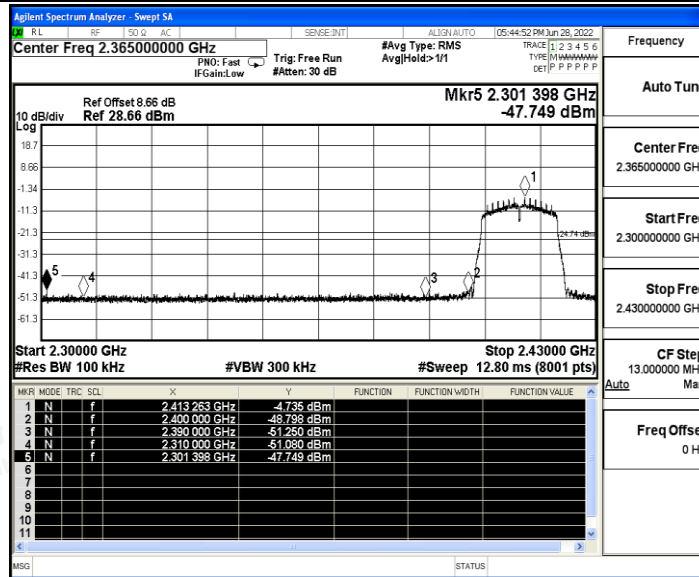


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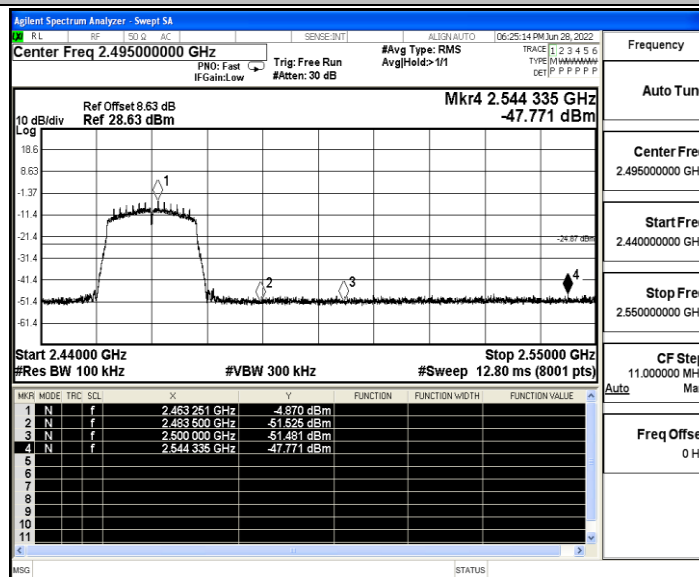
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11N20ISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

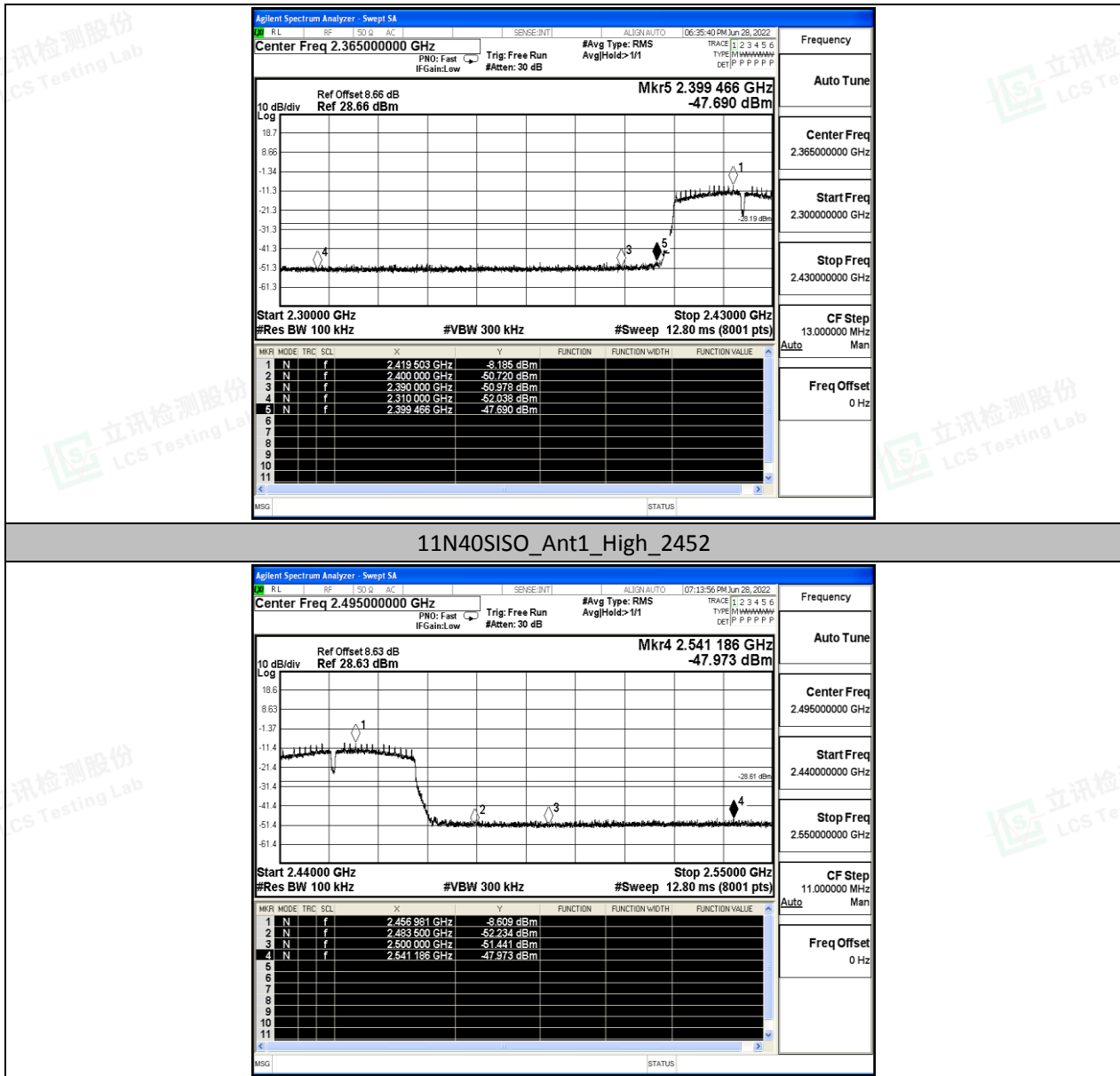


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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-43.74	≤-15.17	PASS
			1000~26500	4.83	-45.97	≤-15.17	PASS
		2437	Reference	4.99	4.99	---	PASS
			30~1000	4.99	-60.25	≤-15.01	PASS
			1000~26500	4.99	-45.97	≤-15.01	PASS
		2462	Reference	4.03	4.03	---	PASS
			30~1000	4.03	-41.75	≤-15.97	PASS
			1000~26500	4.03	-46.13	≤-15.97	PASS
11G	Ant1	2412	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-61.05	≤-23.96	PASS
			1000~26500	-3.96	-46.05	≤-23.96	PASS
		2437	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-60.62	≤-24.4	PASS
			1000~26500	-4.40	-46.1	≤-24.4	PASS
		2462	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-60.95	≤-25.03	PASS
			1000~26500	-5.03	-45.11	≤-25.03	PASS
11N20SISO	Ant1	2412	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-60.39	≤-24.77	PASS
			1000~26500	-4.77	-45.34	≤-24.77	PASS
		2437	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-60.42	≤-24.98	PASS
			1000~26500	-4.98	-45.53	≤-24.98	PASS
		2462	Reference	-4.79	-4.79	---	PASS
			30~1000	-4.79	-61.01	≤-24.79	PASS
			1000~26500	-4.79	-46.39	≤-24.79	PASS
11N40SISO	Ant1	2422	Reference	-8.08	-8.08	---	PASS
			30~1000	-8.08	-60.27	≤-28.08	PASS
			1000~26500	-8.08	-46.29	≤-28.08	PASS
		2437	Reference	-9.22	-9.22	---	PASS
			30~1000	-9.22	-60.9	≤-29.22	PASS
			1000~26500	-9.22	-46.32	≤-29.22	PASS
		2452	Reference	-8.49	-8.49	---	PASS
			30~1000	-8.49	-60.17	≤-28.49	PASS
			1000~26500	-8.49	-45.52	≤-28.49	PASS



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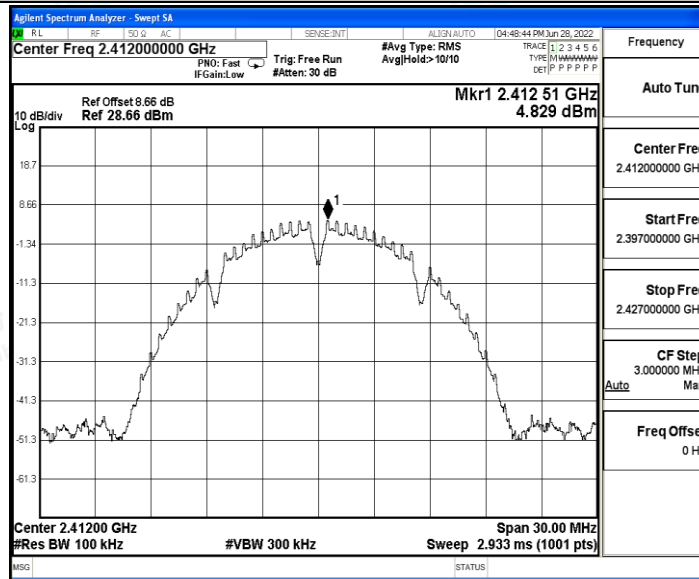
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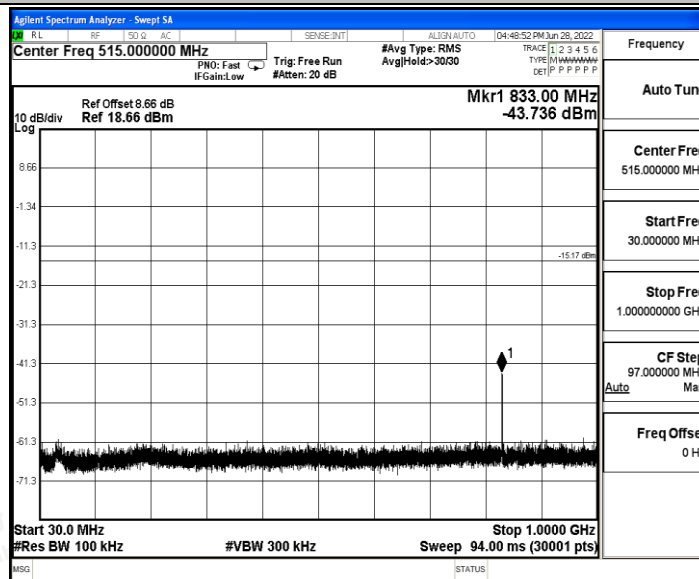


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

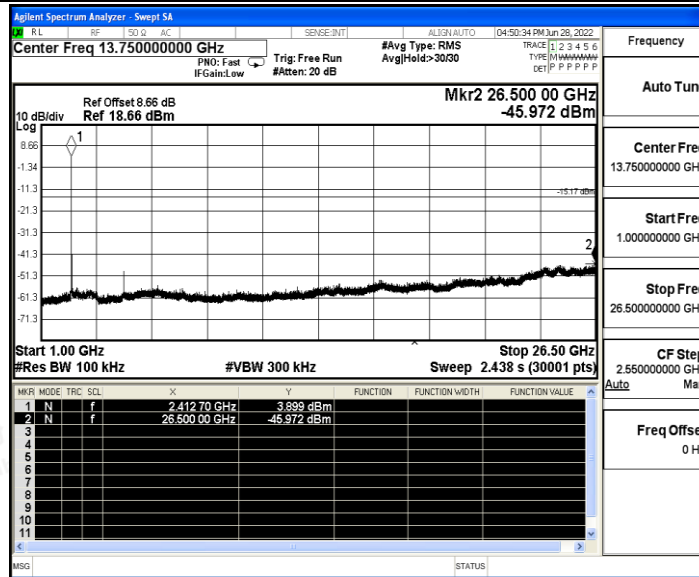


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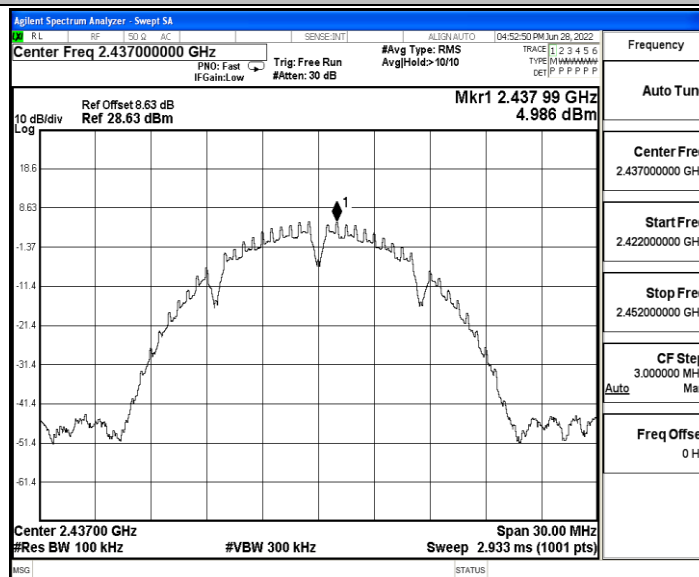
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

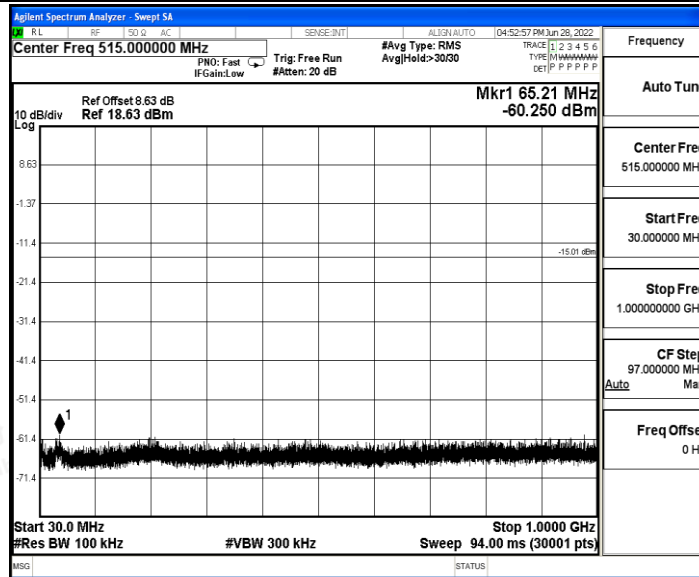


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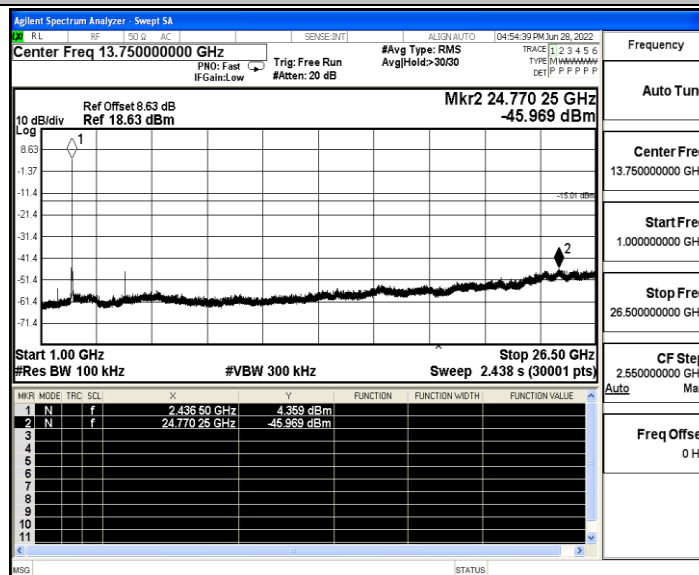
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

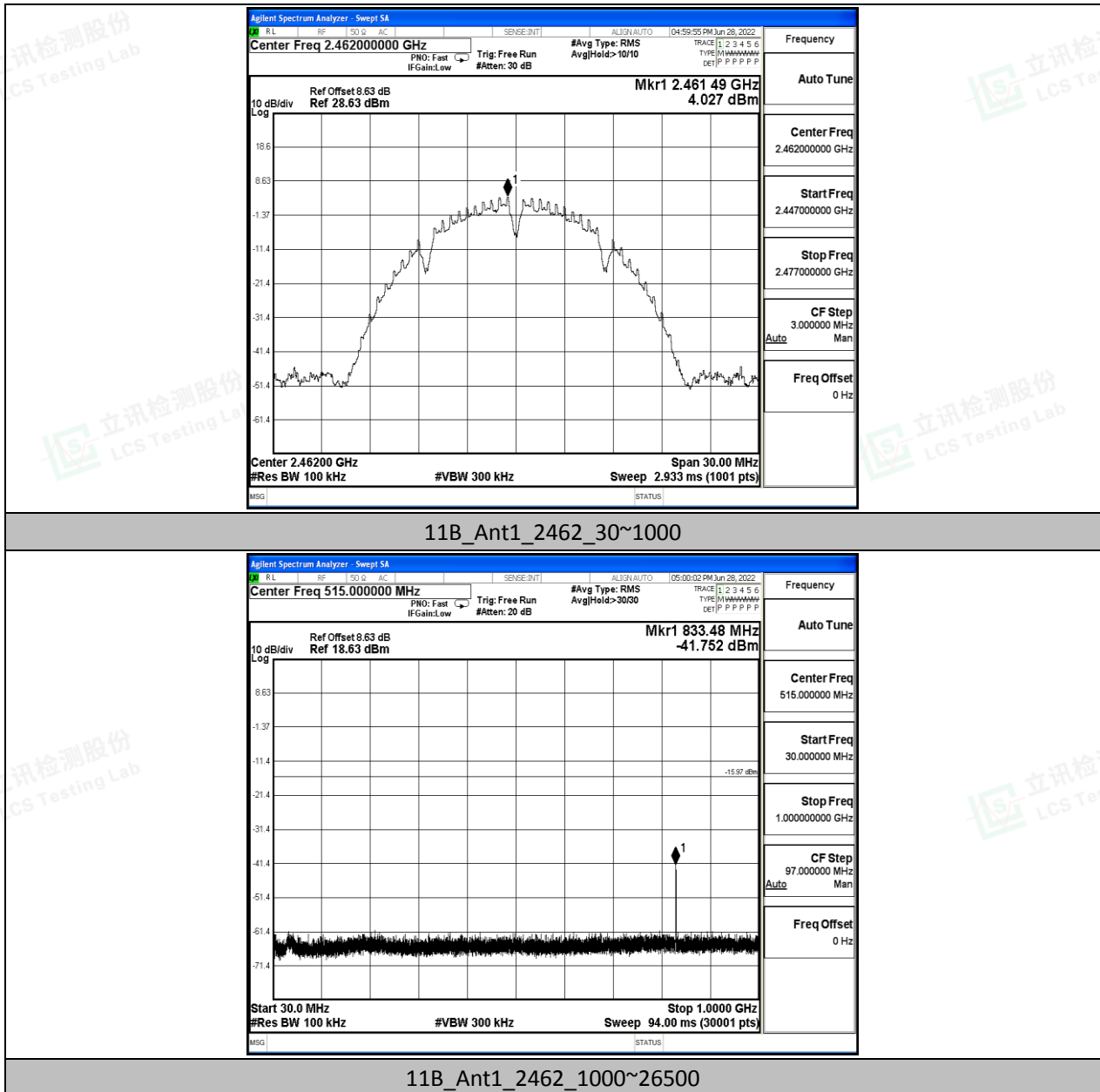


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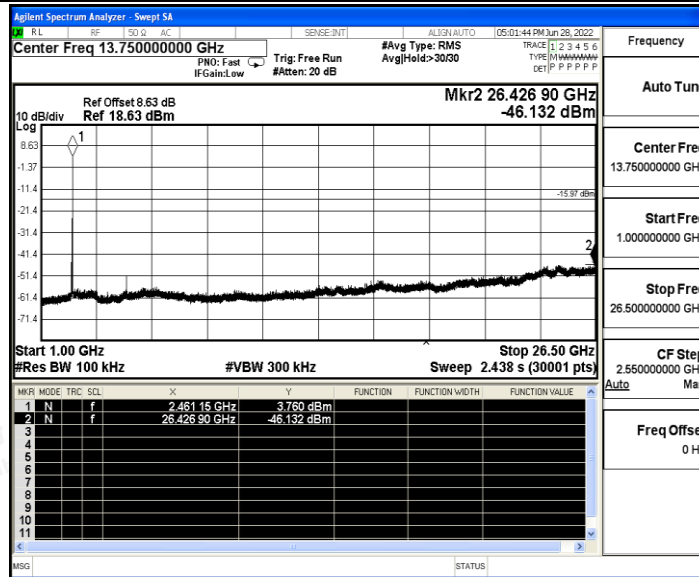


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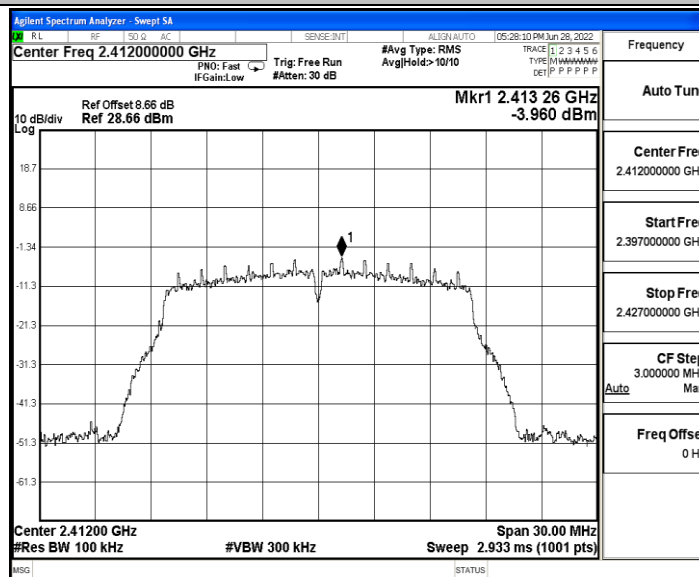
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

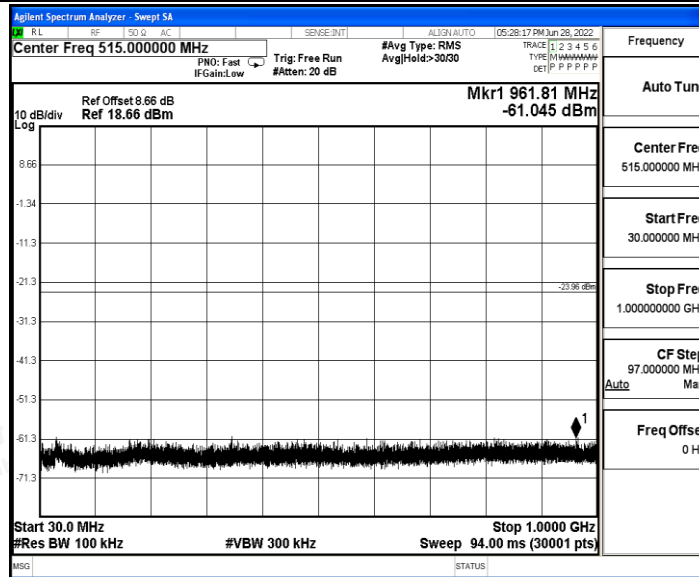


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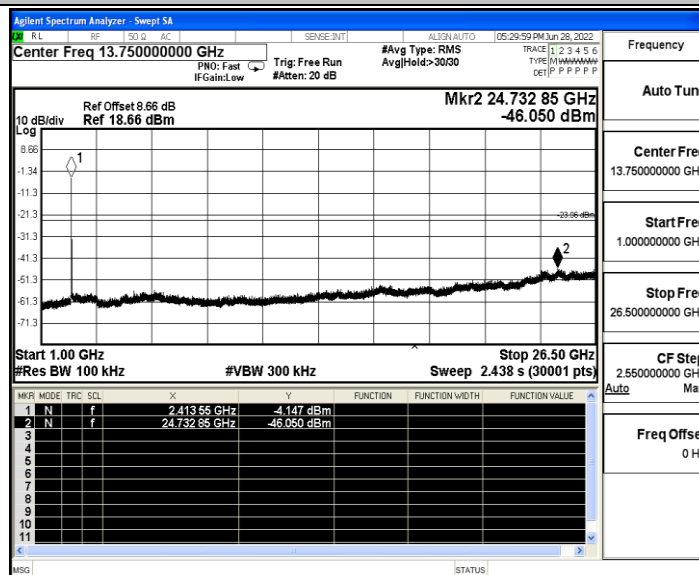
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

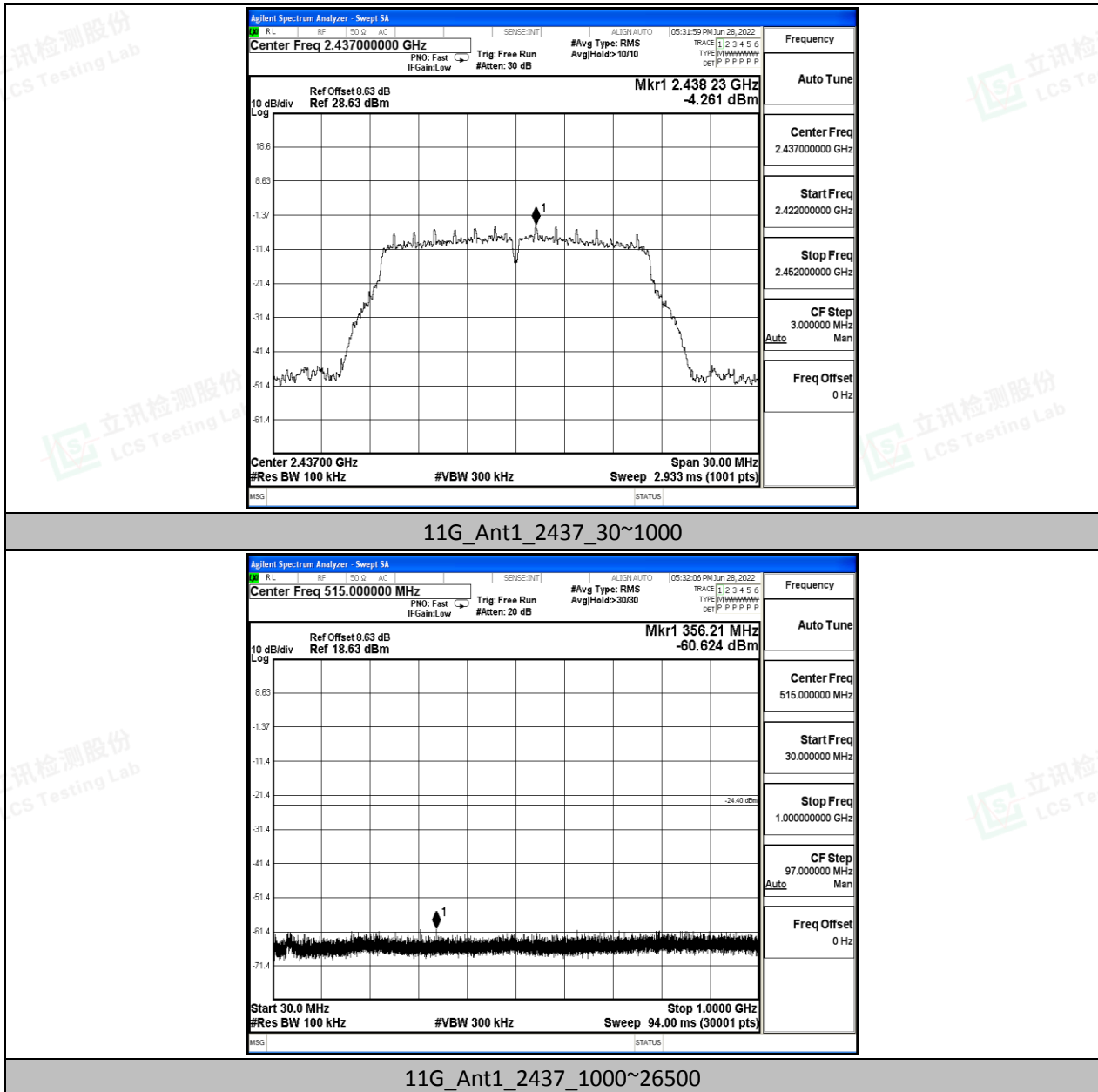


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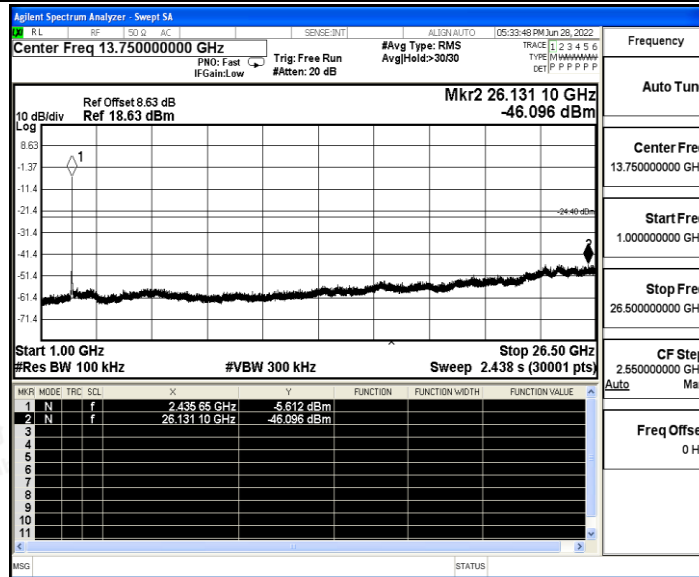


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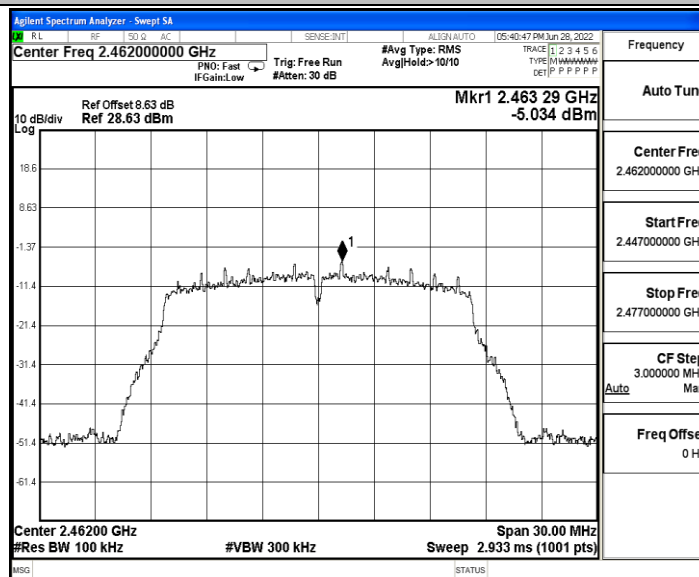
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

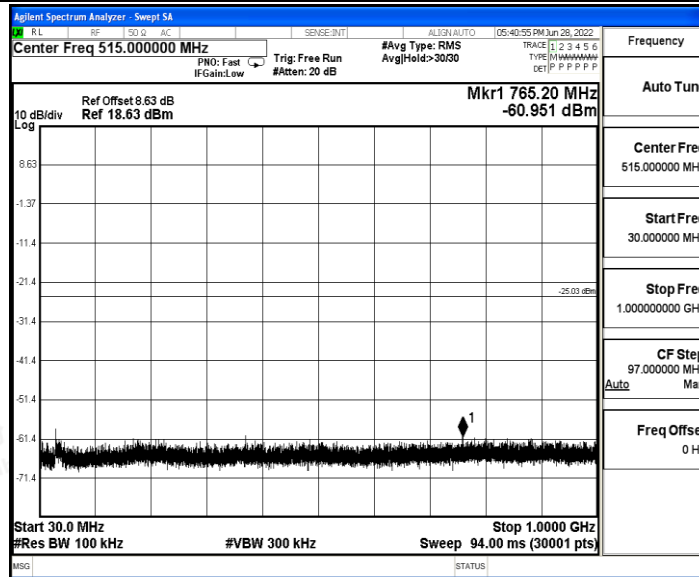


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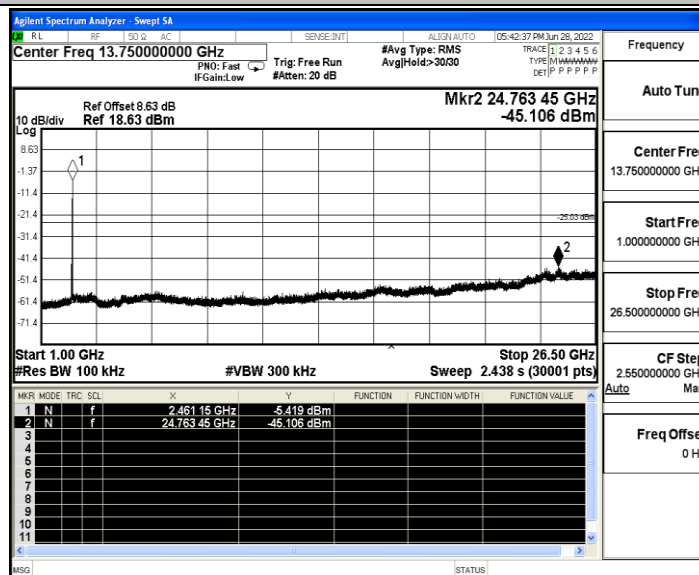
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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

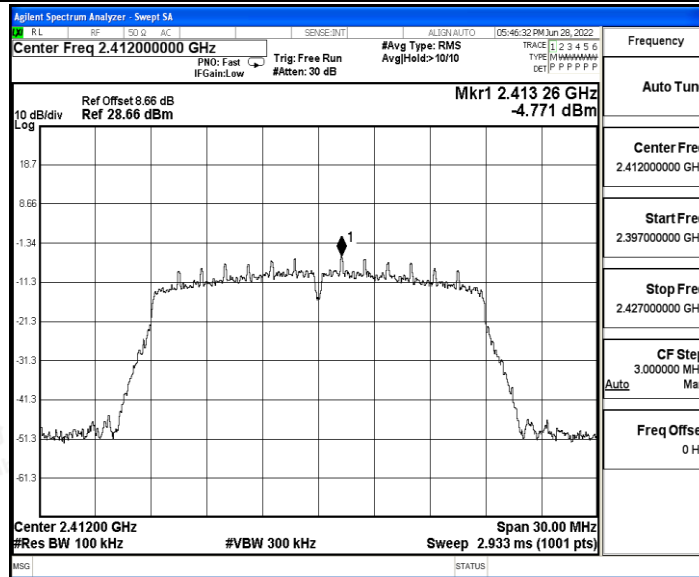


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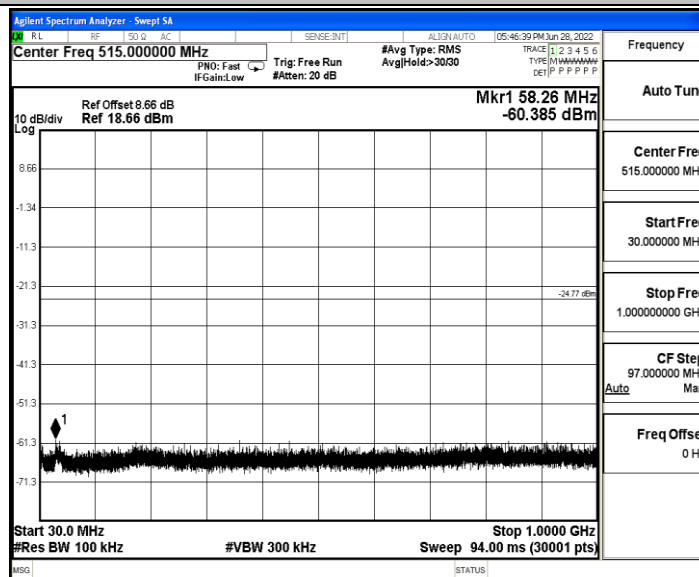
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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

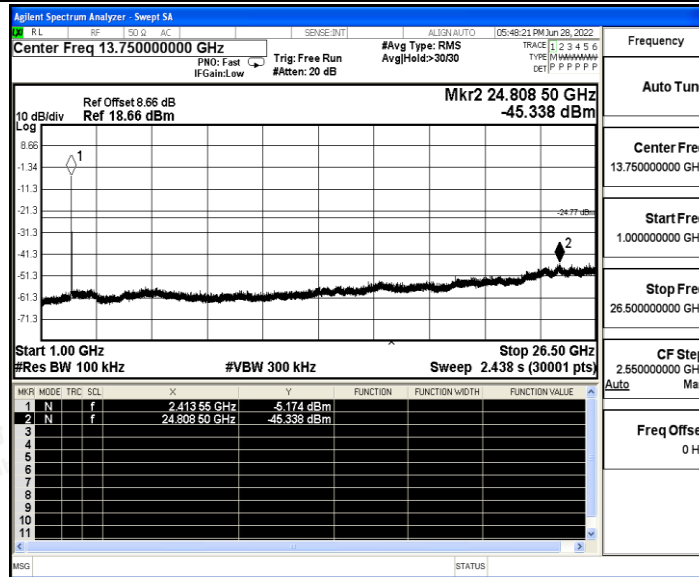


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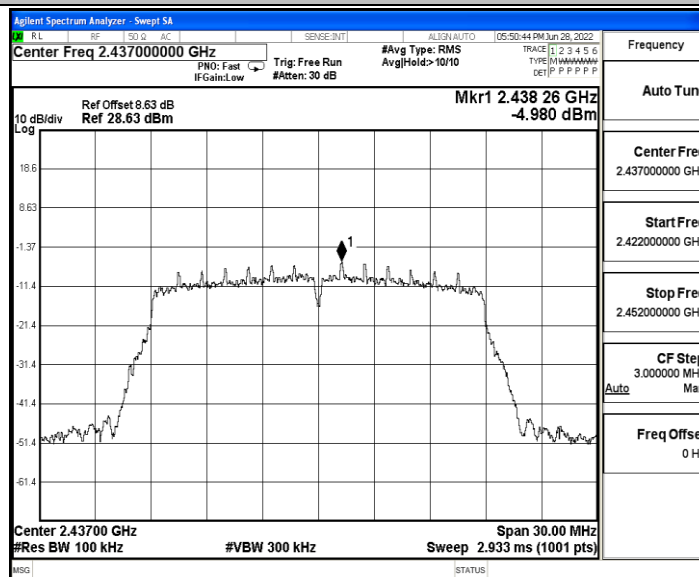
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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



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