



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Thin Client

Test Model: AK7

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan





C.1 DTS Bandwidth

Test Result

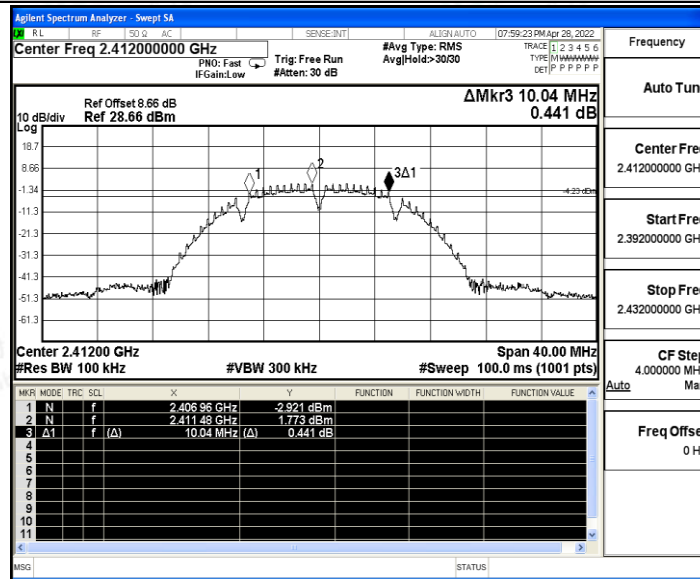
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant	2412	15.640	2404.240	2419.880	0.5	PASS
		2437	15.800	2429.080	2444.880	0.5	PASS
		2462	15.800	2454.080	2469.880	0.5	PASS
11N20SISO	Ant	2412	16.880	2403.600	2420.480	0.5	PASS
		2437	16.520	2428.600	2445.120	0.5	PASS
		2462	16.520	2453.600	2470.120	0.5	PASS
11N40SISO	Ant	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS



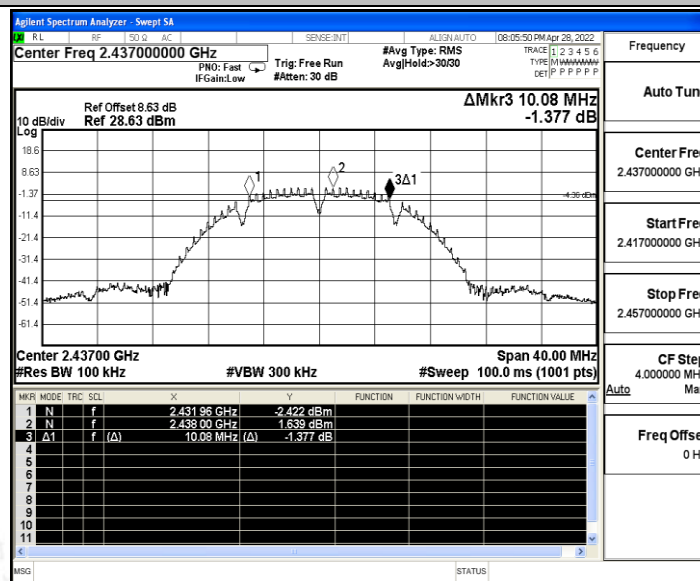


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

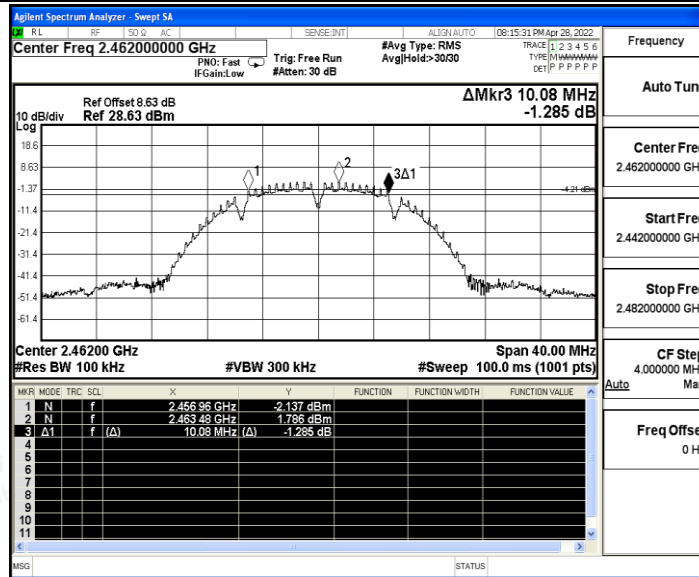


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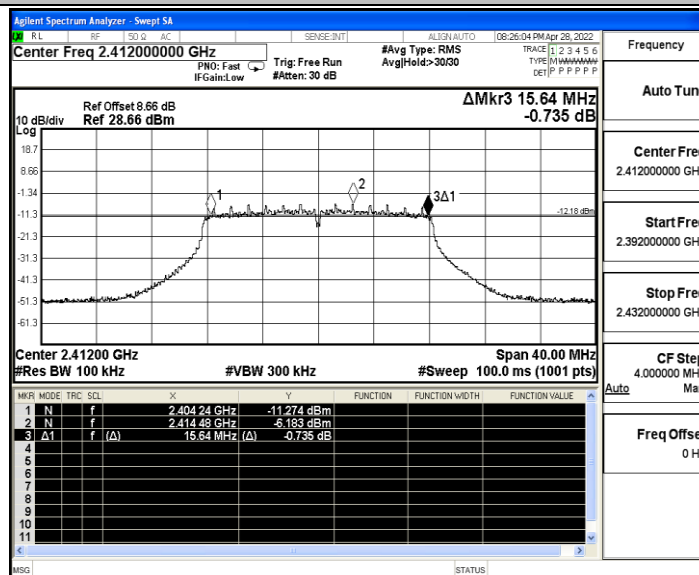
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

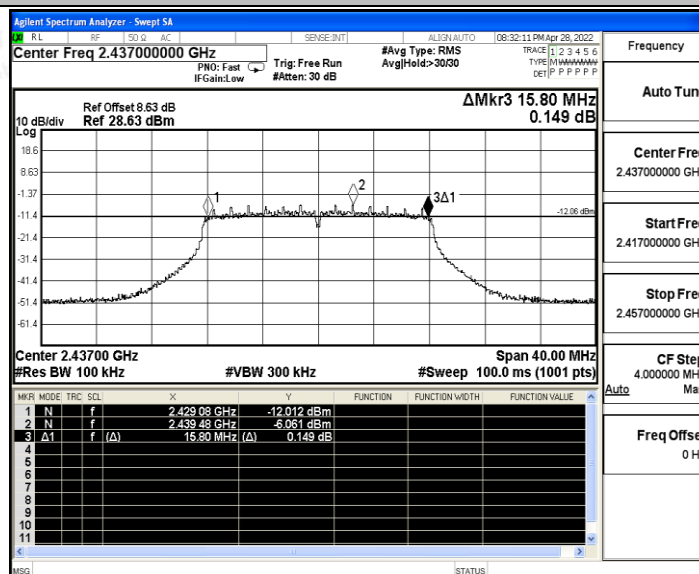
Scan code to check authenticity



11G_Ant_2412



11G_Ant_2437



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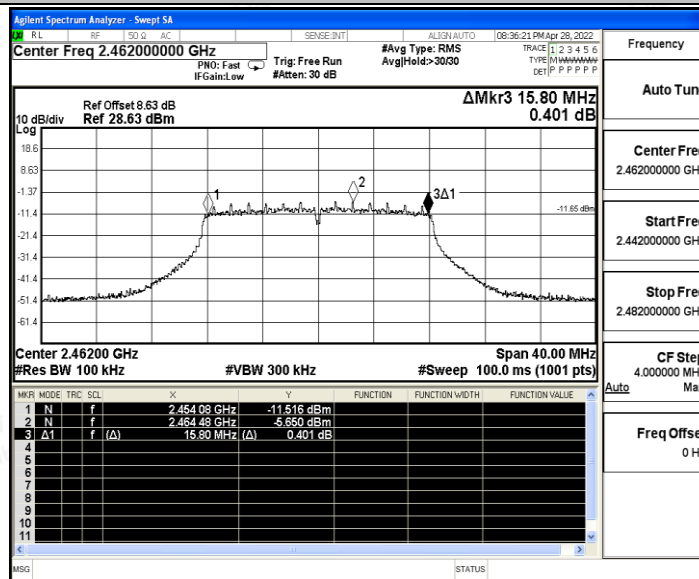
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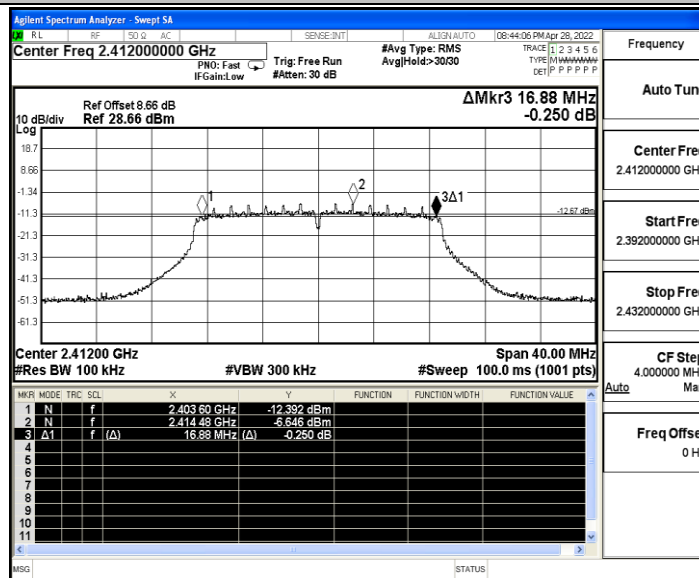
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11G_Ant_2462



11N20SISO_Ant_2412



11N20SISO_Ant_2437

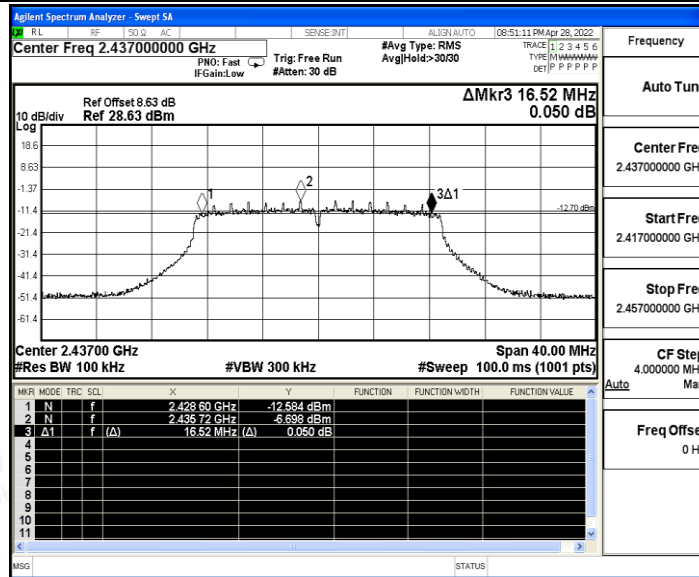


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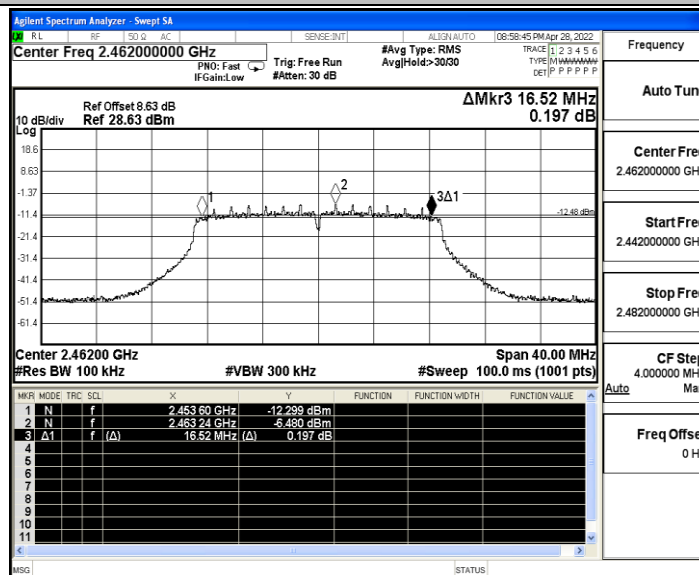
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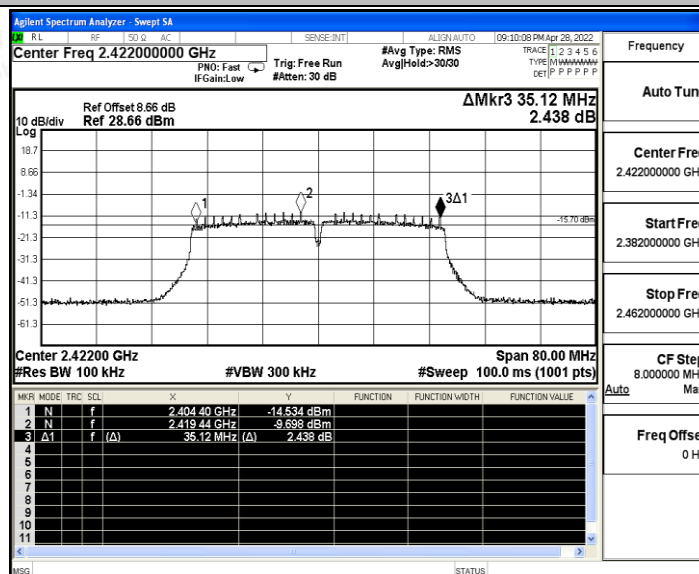
Scan code to check authenticity



11N20SISO_Ant_2462



11N40SISO_Ant_2422



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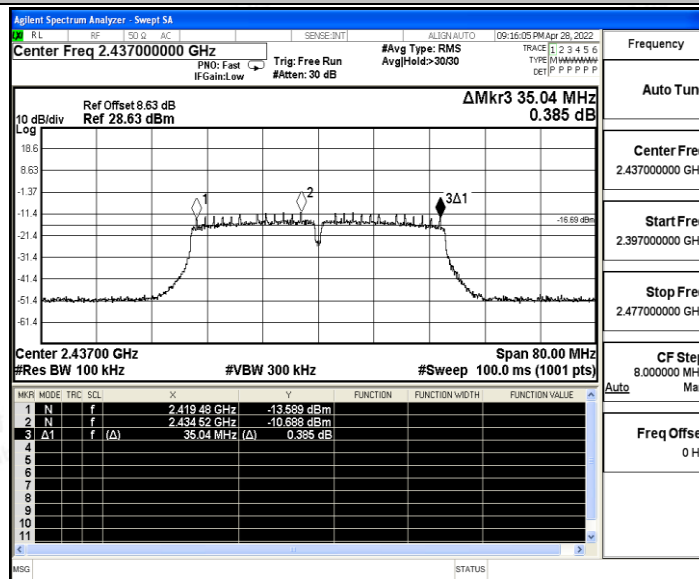
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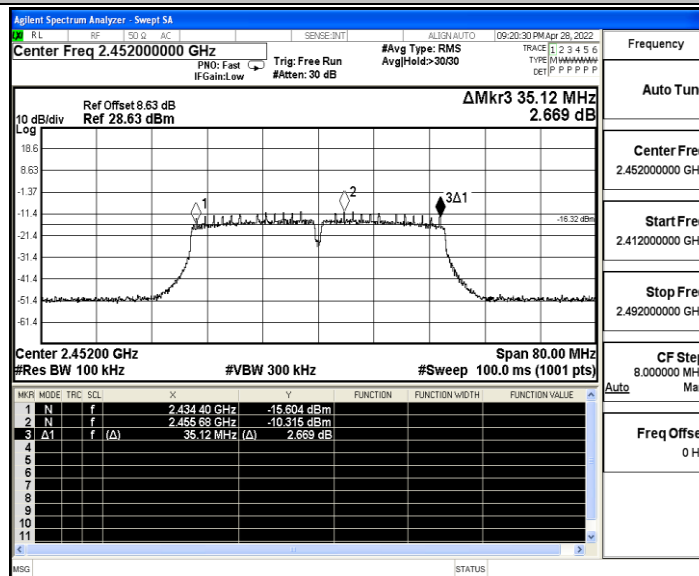
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11N40SISO_Ant_2437



11N40SISO_Ant_2452



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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	14.23	≤30.00	PASS
		2437	14.17	≤30.00	PASS
		2462	14.35	≤30.00	PASS
11G	Ant	2412	13.06	≤30.00	PASS
		2437	12.97	≤30.00	PASS
		2462	13.41	≤30.00	PASS
11N20SIS O	Ant	2412	12.39	≤30.00	PASS
		2437	12.10	≤30.00	PASS
		2462	12.43	≤30.00	PASS
11N40SIS O	Ant	2422	12.12	≤30.00	PASS
		2437	11.11	≤30.00	PASS
		2452	11.42	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

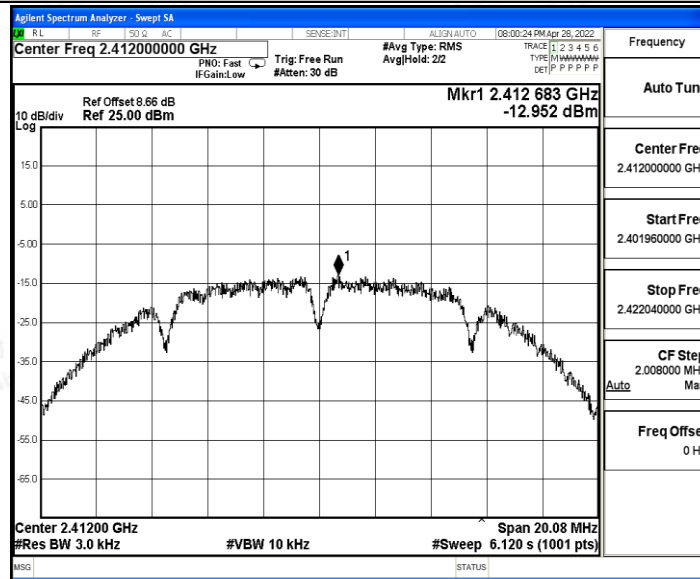
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-12.95	≤8.00	PASS
		2437	-12.66	≤8.00	PASS
		2462	-11.69	≤8.00	PASS
11G	Ant	2412	-21.18	≤8.00	PASS
		2437	-20.92	≤8.00	PASS
		2462	-20.41	≤8.00	PASS
11N20SISO	Ant	2412	-21.77	≤8.00	PASS
		2437	-21.05	≤8.00	PASS
		2462	-21.16	≤8.00	PASS
11N40SISO	Ant	2422	-24.95	≤8.00	PASS
		2437	-25.14	≤8.00	PASS
		2452	-25.96	≤8.00	PASS



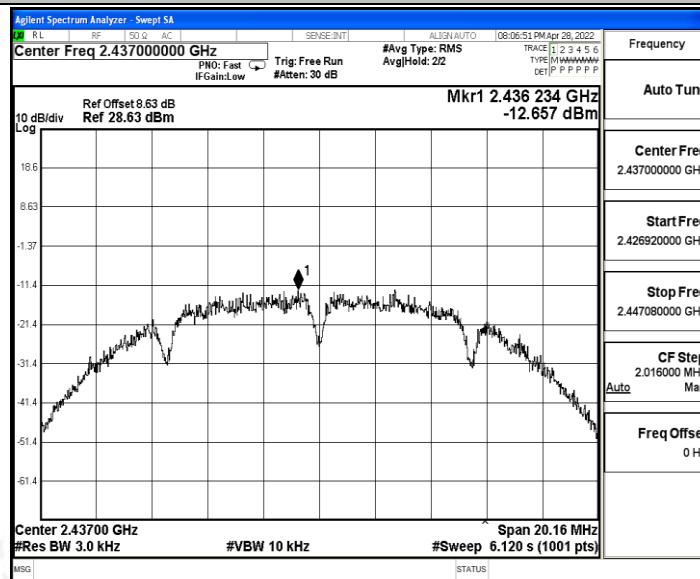


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

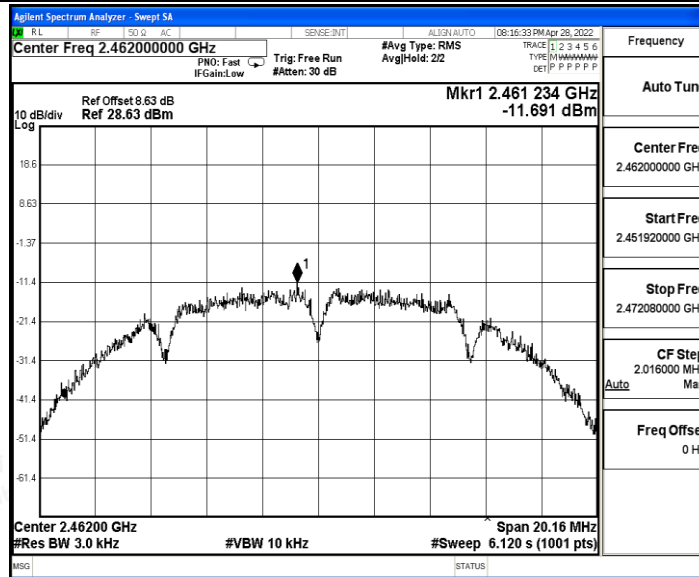


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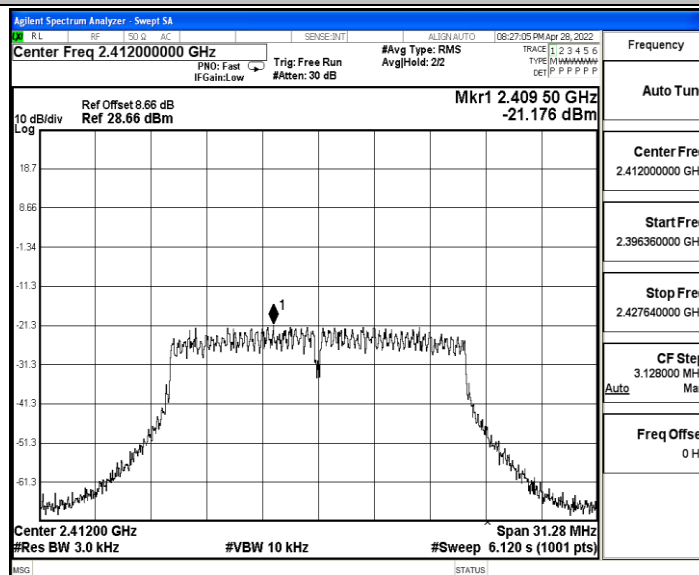
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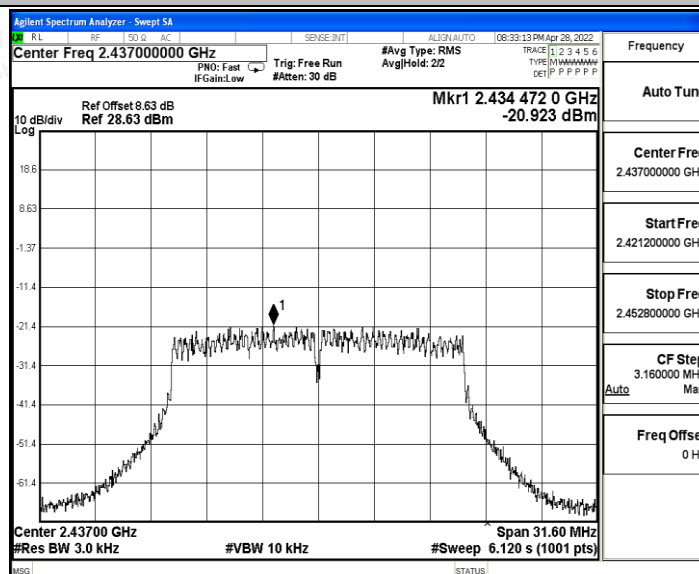
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11G_Ant_2412

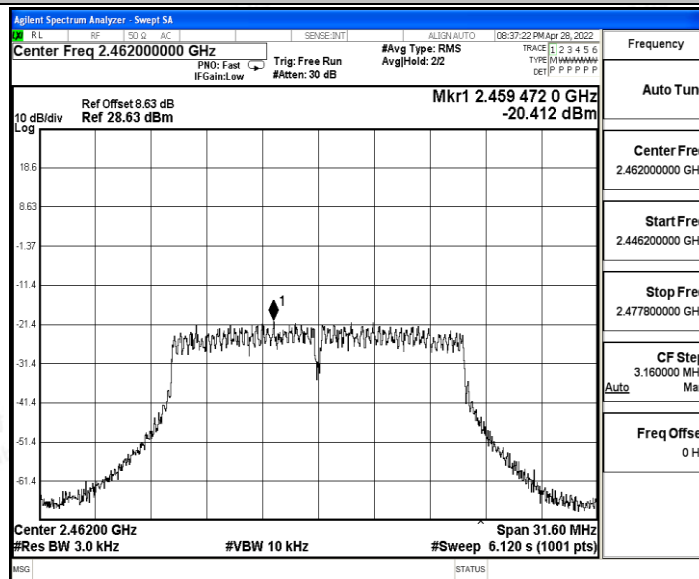


11G_Ant_2437

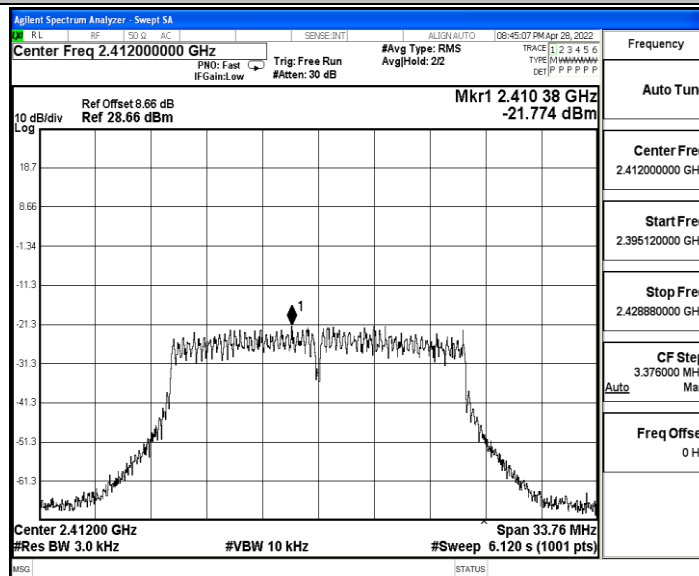




11G_Ant_2462



11N20SISO_Ant_2412



11N20SISO_Ant_2437

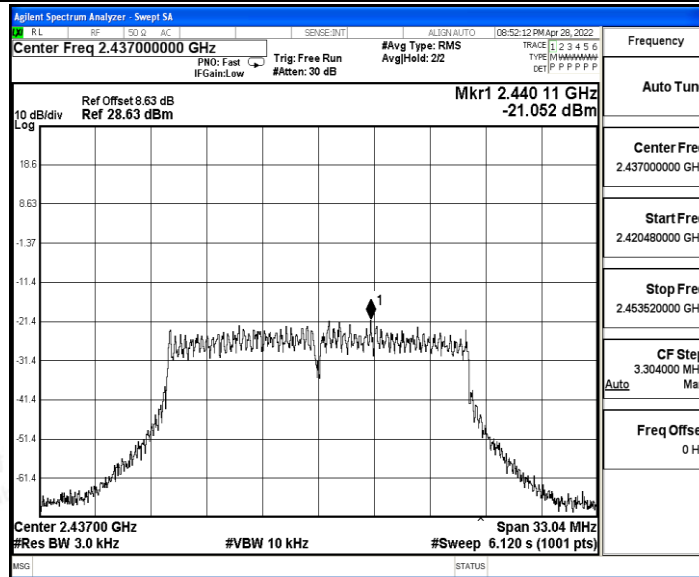


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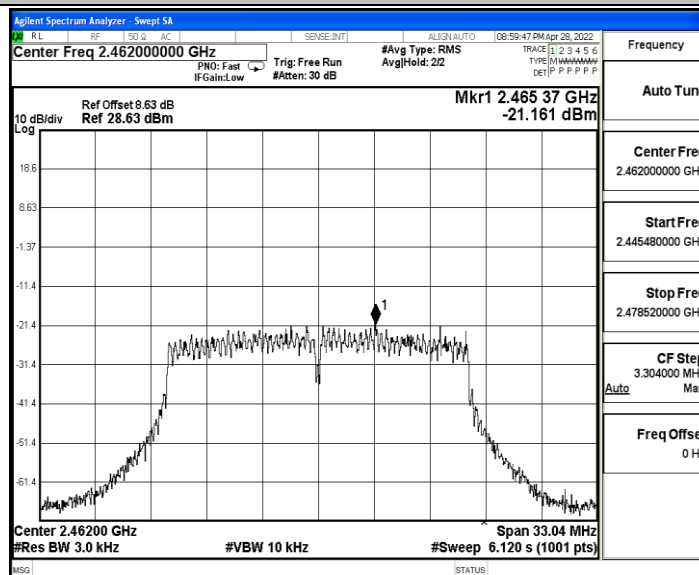
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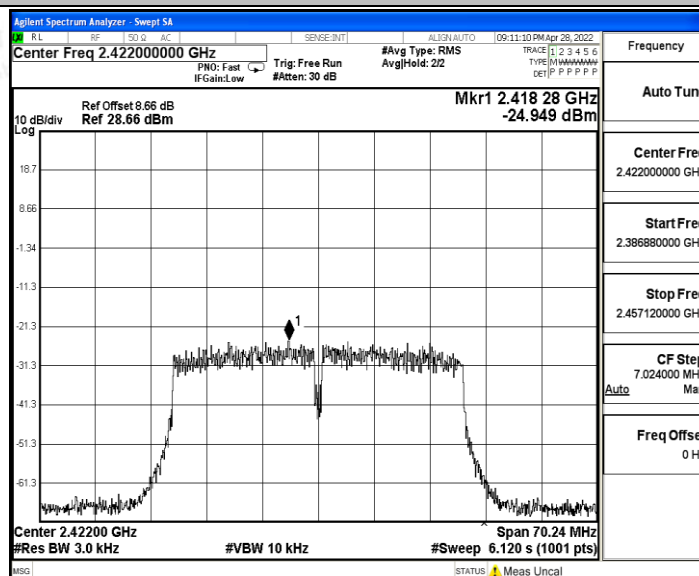
Scan code to check authenticity



11N20SISO_Ant_2462



11N40SISO_Ant_2422



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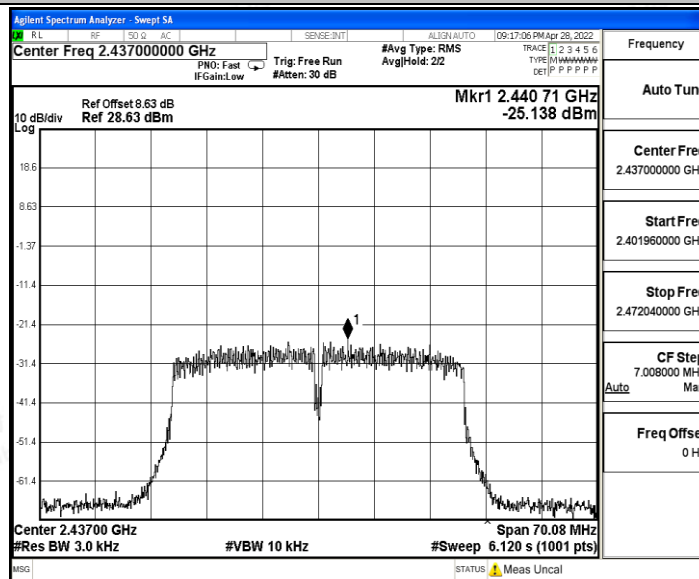
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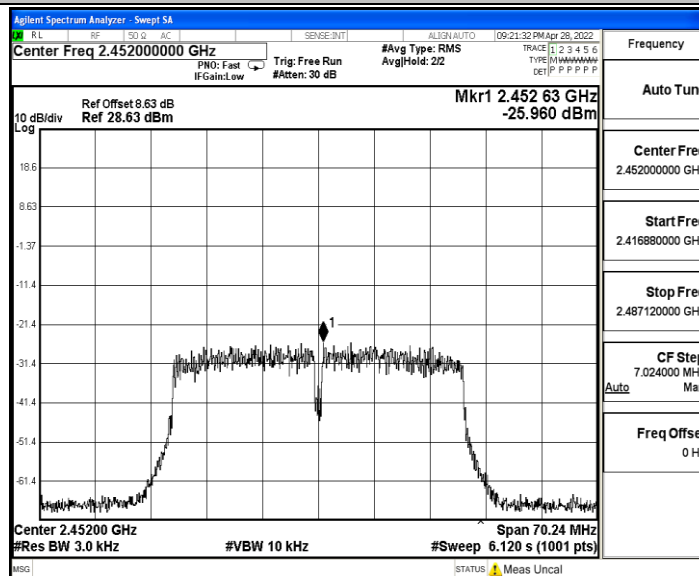
Scan code to check authenticity



11N40SISO_Ant_2437



11N40SISO_Ant_2452





C.4 Band edge measurements

Test Result

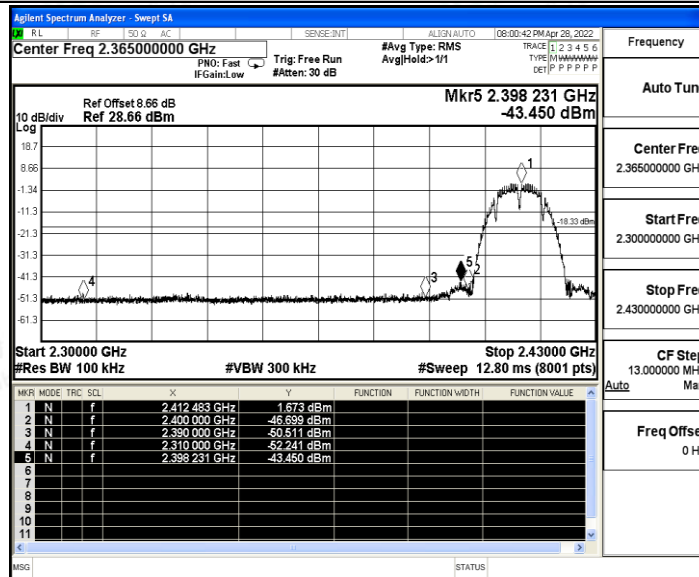
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	1.67	-43.45	≤ -18.33	PASS
		High	2462	1.85	-47.89	≤ -18.15	PASS
11G	Ant	Low	2412	-6.13	-44.62	≤ -26.13	PASS
		High	2462	-5.55	-47.6	≤ -25.55	PASS
11N20SISO	Ant	Low	2412	-6.64	-42.46	≤ -26.64	PASS
		High	2462	-6.28	-48.25	≤ -26.28	PASS
11N40SISO	Ant	Low	2422	-9.51	-46.87	≤ -29.51	PASS
		High	2452	-10.45	-48.4	≤ -30.45	PASS



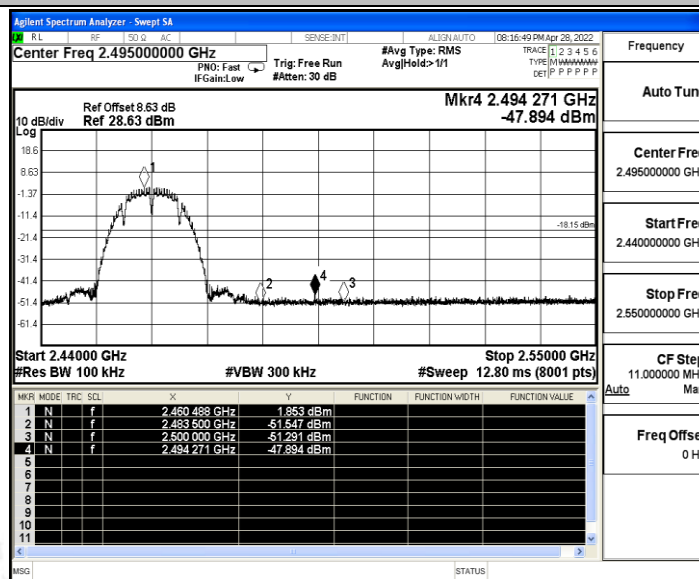


Test Graphs

11B_Ant_Low_2412



11B_Ant_High_2462



11G_Ant_Low_2412

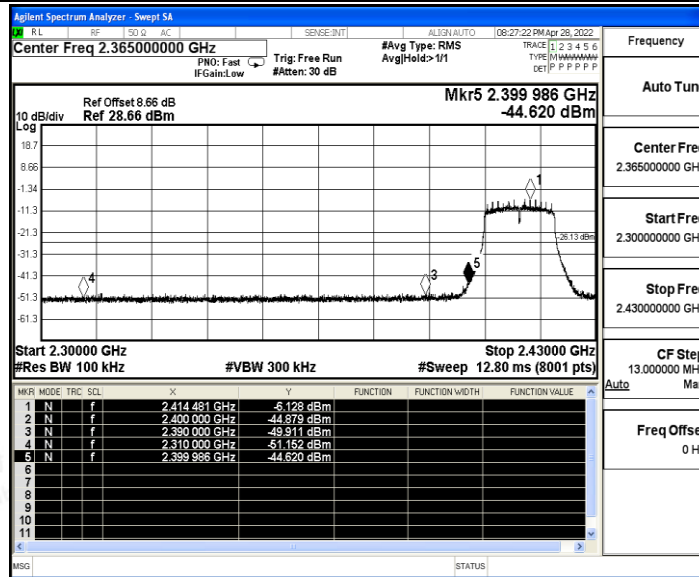


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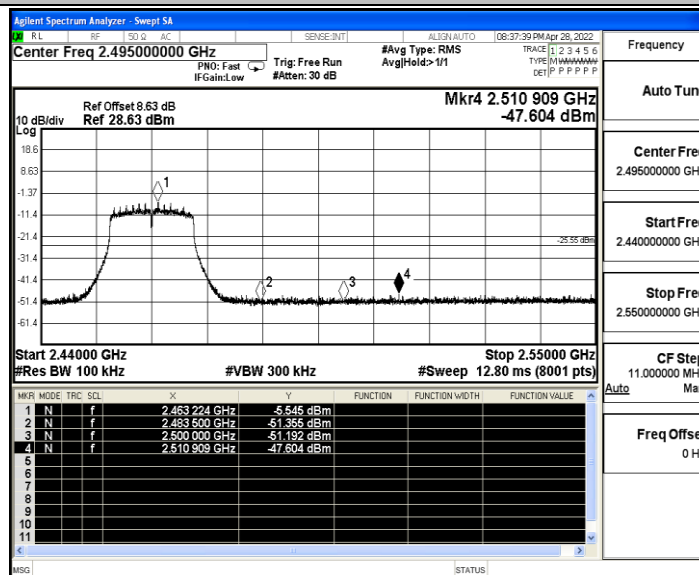
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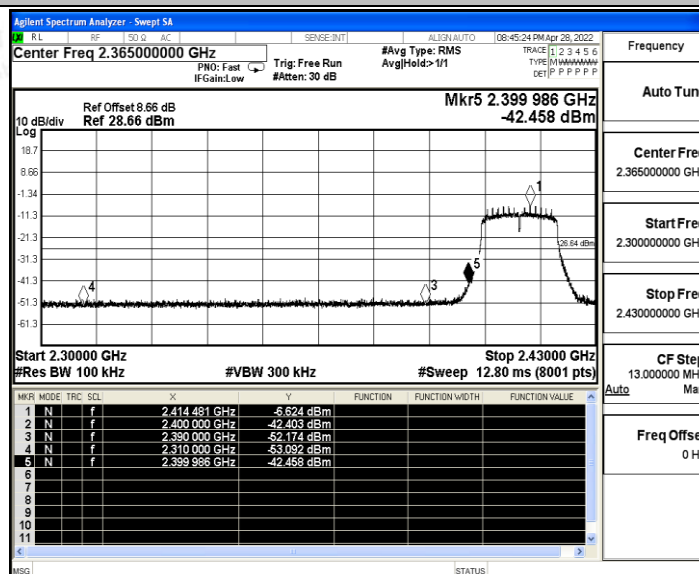
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412



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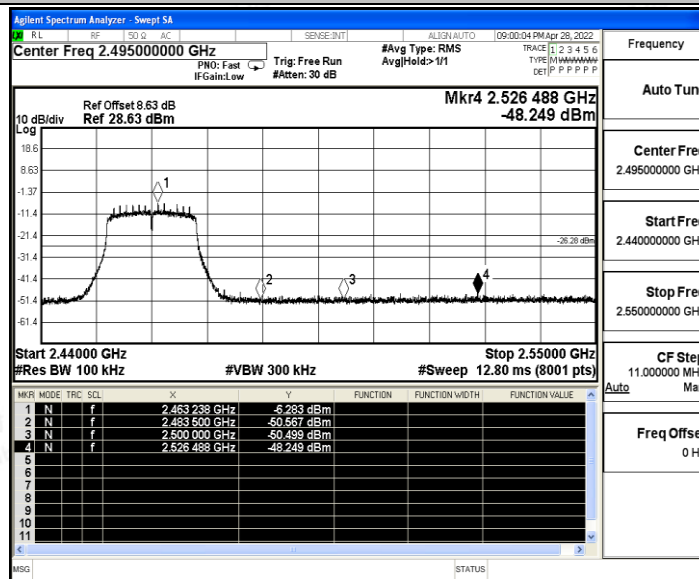
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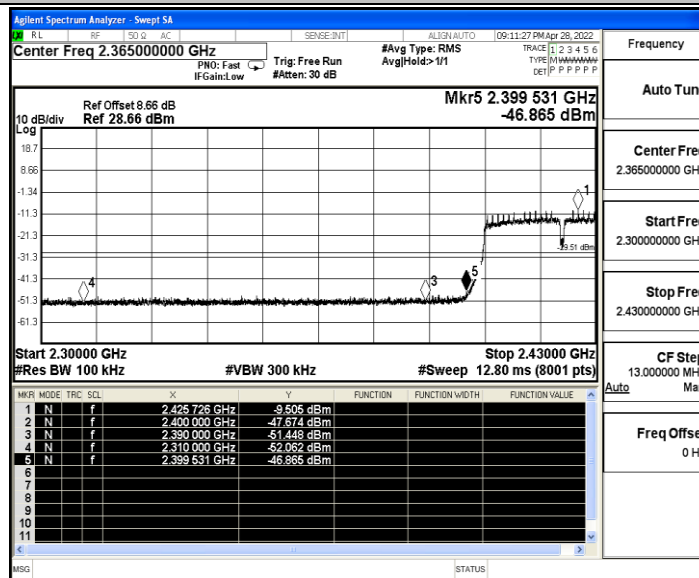
Scan code to check authenticity



11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422



11N40SISO_Ant_High_2452

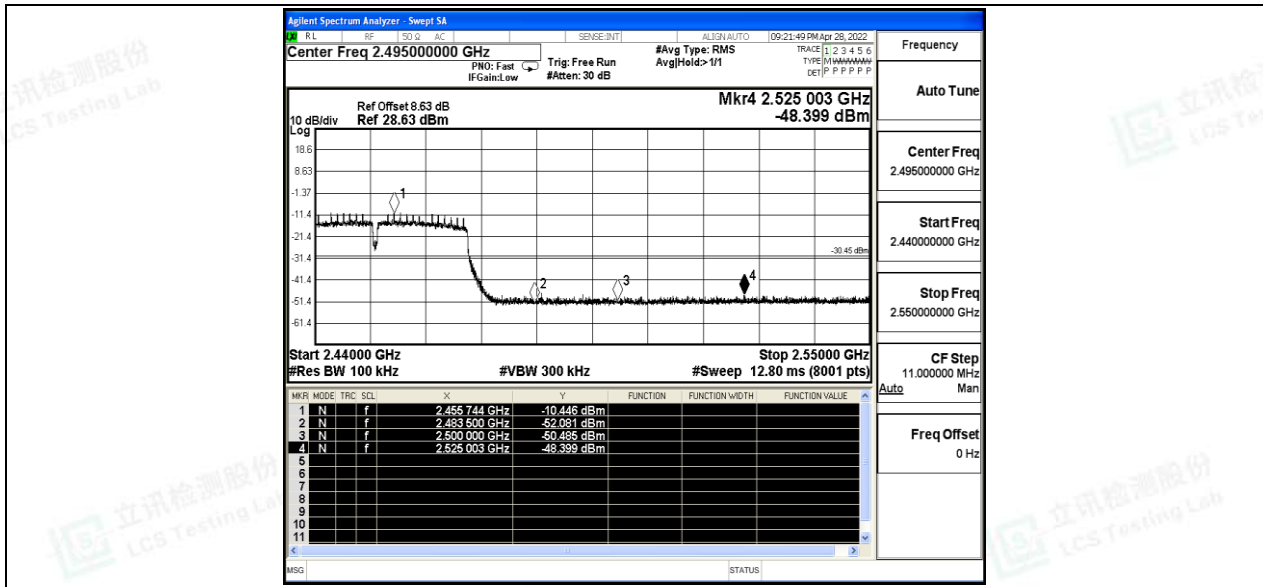


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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	1.72	1.72	---	PASS
			30~1000	1.72	-58.99	≤ -18.28	PASS
			1000~26500	1.72	-46.64	≤ -18.28	PASS
		2437	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-48.1	≤ -18.32	PASS
			1000~26500	1.68	-46.15	≤ -18.32	PASS
		2462	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-59.28	≤ -18.29	PASS
			1000~26500	1.71	-46.79	≤ -18.29	PASS
11G	Ant	2412	Reference	-6.19	-6.19	---	PASS
			30~1000	-6.19	-57.58	≤ -26.19	PASS
			1000~26500	-6.19	-45.44	≤ -26.19	PASS
		2437	Reference	-5.88	-5.88	---	PASS
			30~1000	-5.88	-59.38	≤ -25.88	PASS
			1000~26500	-5.88	-46.15	≤ -25.88	PASS
		2462	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-58.89	≤ -26.18	PASS
			1000~26500	-6.18	-45.9	≤ -26.18	PASS
11N20SISO	Ant	2412	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-60.05	≤ -25.97	PASS
			1000~26500	-5.97	-46.57	≤ -25.97	PASS
		2437	Reference	-6.43	-6.43	---	PASS
			30~1000	-6.43	-59.06	≤ -26.43	PASS
			1000~26500	-6.43	-45.95	≤ -26.43	PASS
		2462	Reference	-6.52	-6.52	---	PASS
			30~1000	-6.52	-58.76	≤ -26.52	PASS
			1000~26500	-6.52	-46.12	≤ -26.52	PASS
11N40SISO	Ant	2422	Reference	-9.62	-9.62	---	PASS
			30~1000	-9.62	-59.31	≤ -29.62	PASS
			1000~26500	-9.62	-46.46	≤ -29.62	PASS
		2437	Reference	-10.60	-10.60	---	PASS
			30~1000	-10.60	-58.97	≤ -30.6	PASS
			1000~26500	-10.60	-46.43	≤ -30.6	PASS
		2452	Reference	-10.34	-10.34	---	PASS
			30~1000	-10.34	-59.54	≤ -30.34	PASS
			1000~26500	-10.34	-46.29	≤ -30.34	PASS



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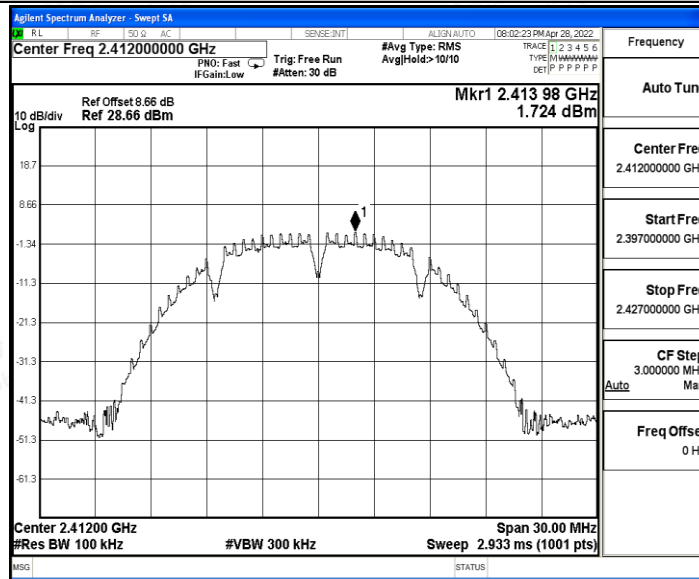
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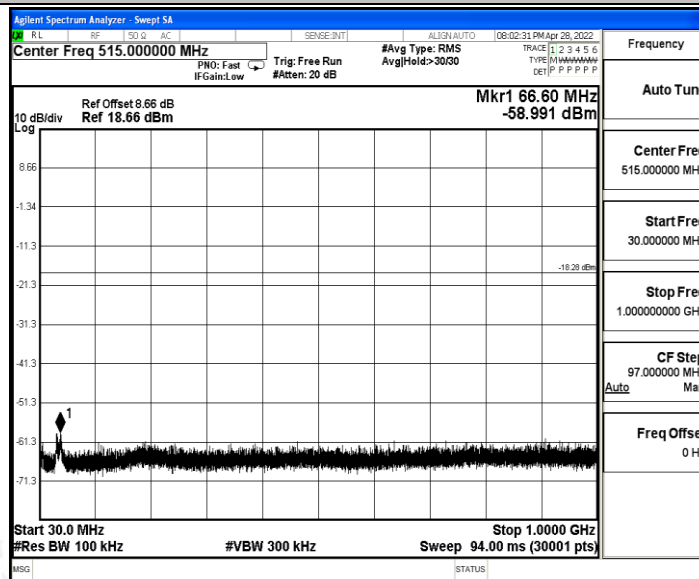


Test Graphs

11B_Ant_2412_0~Reference



11B_Ant_2412_30~1000



11B_Ant_2412_1000~26500

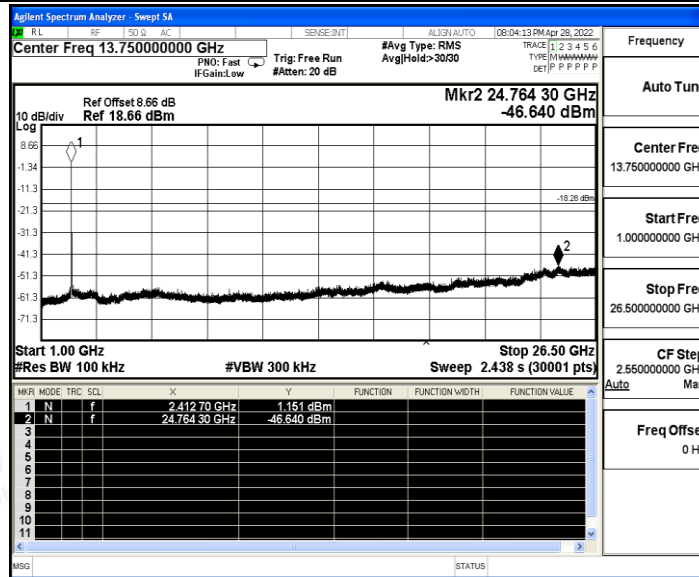


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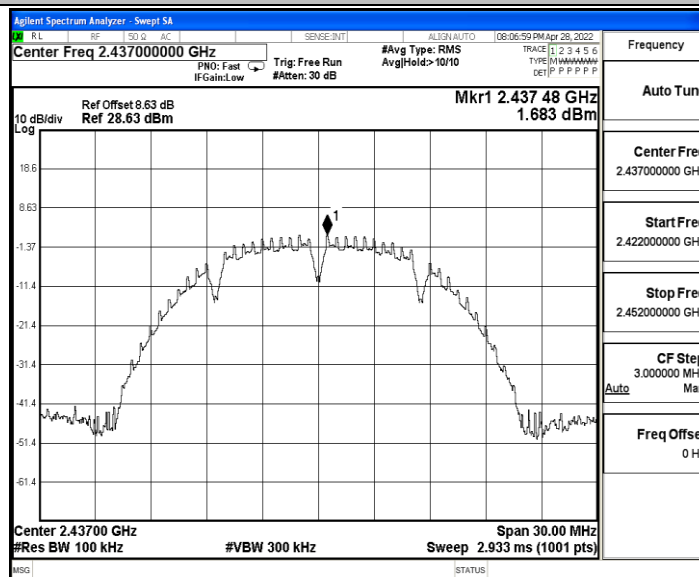
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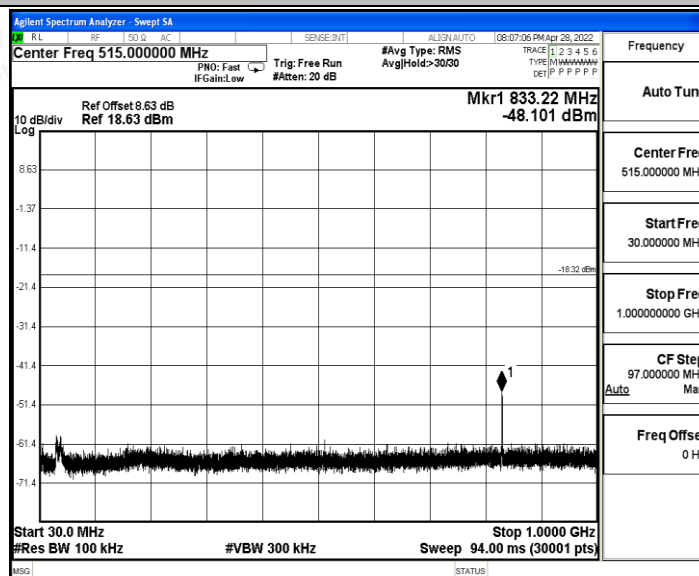
Scan code to check authenticity



11B_Ant_2437_0~Reference

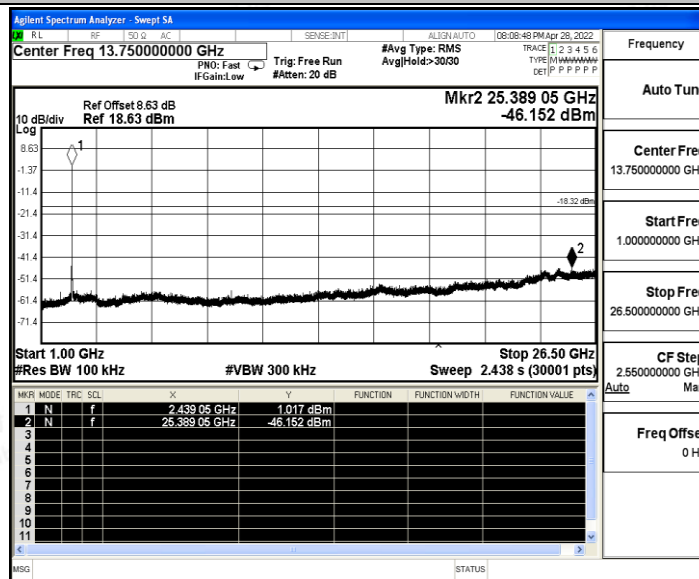


11B_Ant_2437_30~1000

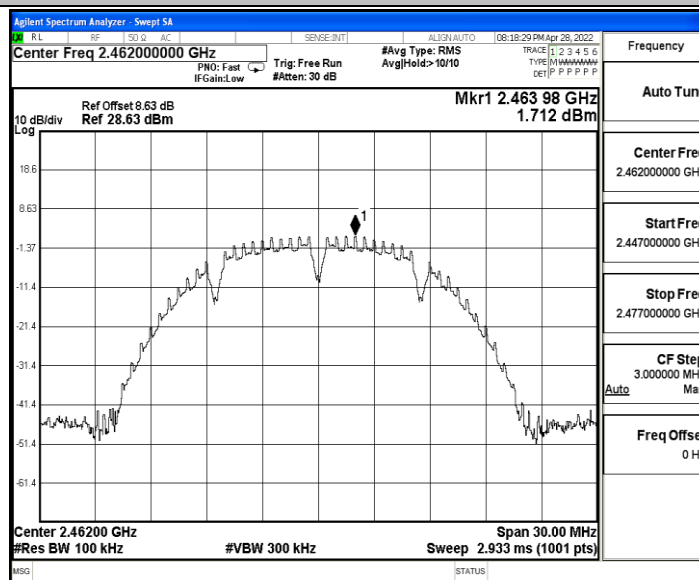




11B_Ant_2437_1000~26500



11B_Ant_2462_0~Reference



11B_Ant_2462_30~1000

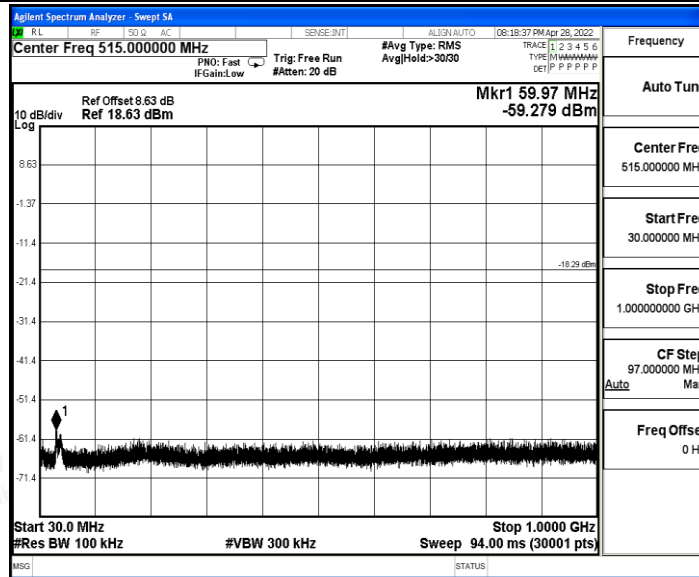


Shenzhen LCS Compliance Testing Laboratory Ltd.

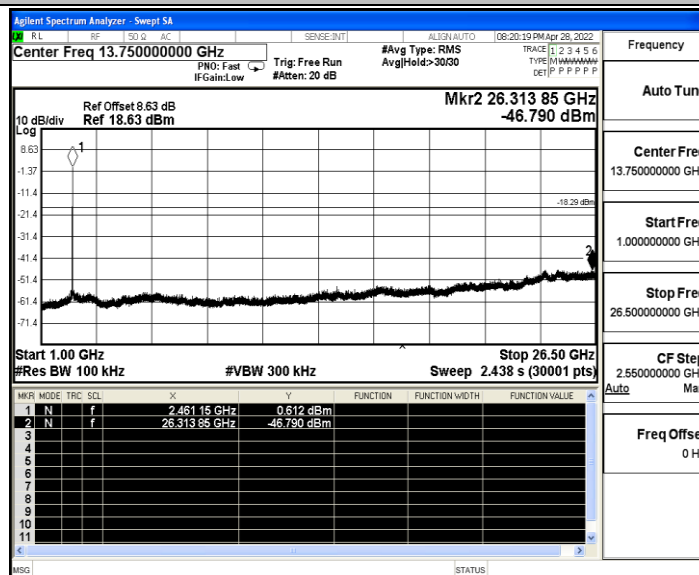
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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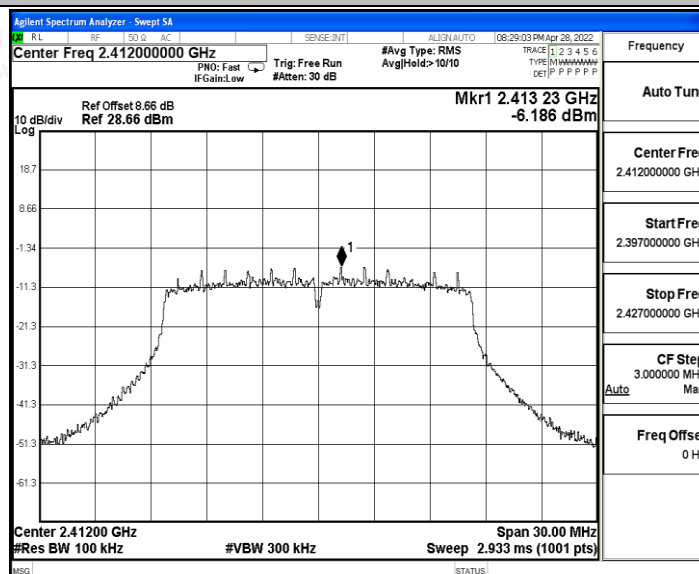
Scan code to check authenticity



11B_Ant_2462_1000~26500



11G_Ant_2412_0-Reference



Shenzhen LCS Compliance Testing Laboratory Ltd.

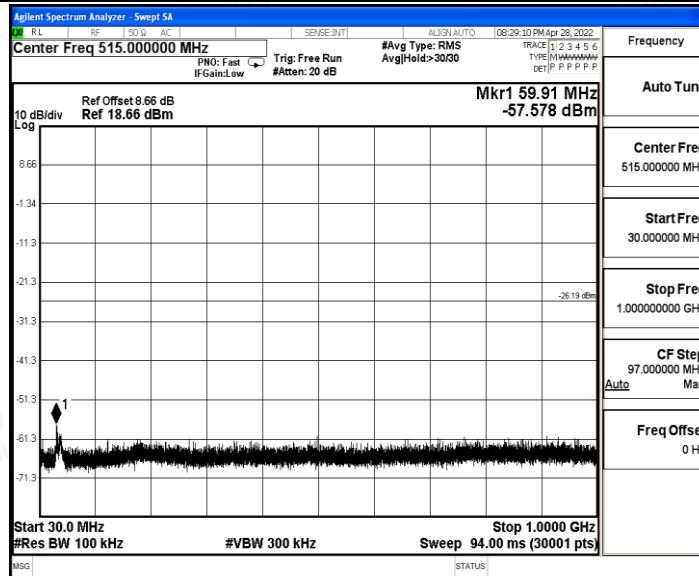
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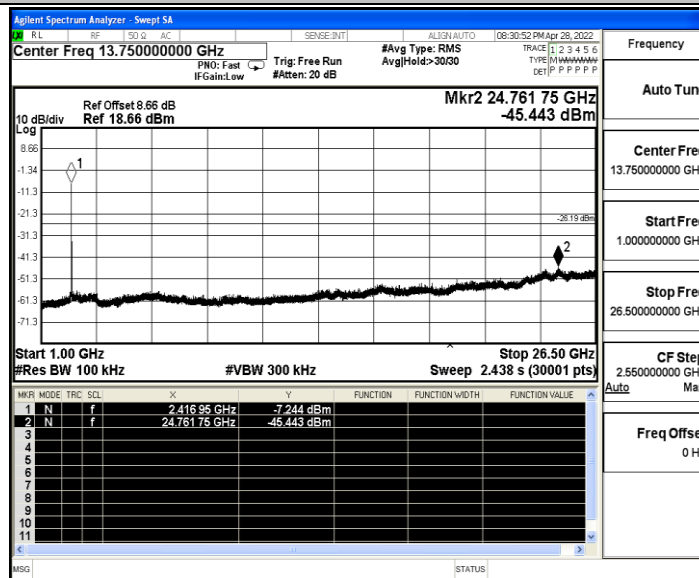
Scan code to check authenticity



11G_Ant_2412_30~1000



11G_Ant_2412_1000~26500



11G_Ant_2437_0~Reference



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