



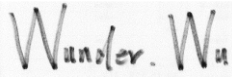
Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: WIFI Music Sync Ambient Lamp

Test Model: FWWDA4-25

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Wunder Wu
Supervised by:	 Li Huan



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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	10.000	2407.000	2417.000	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant	2412	15.400	2404.440	2419.840	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS



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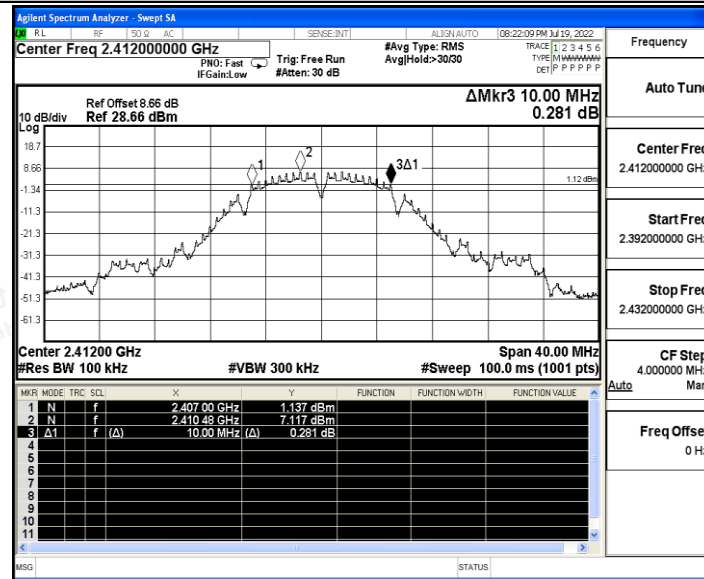
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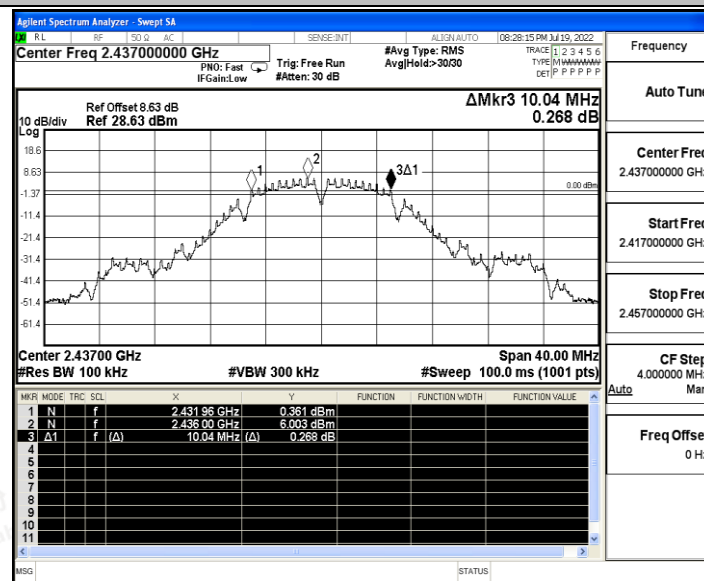


Test Graphs

11B_Ant_2412



11B_Ant_2437



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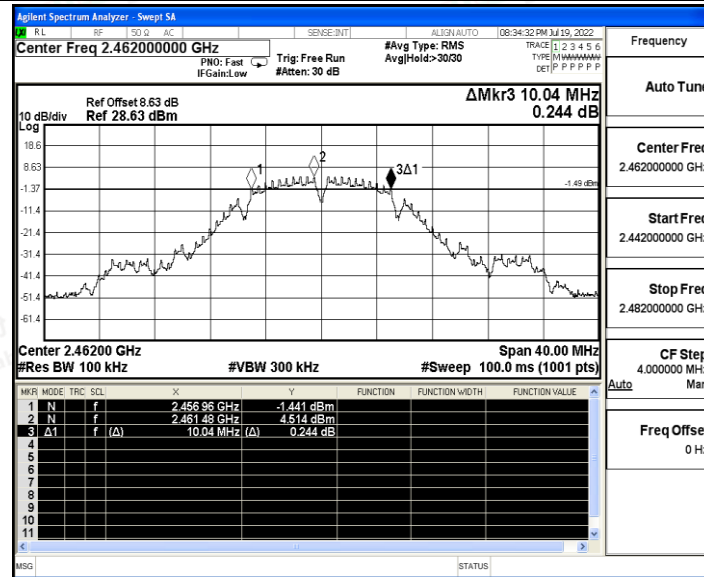
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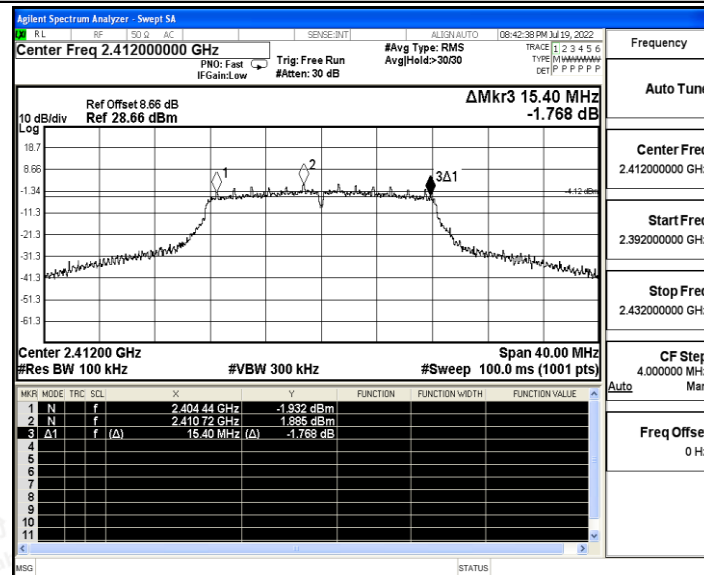
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11B_Ant_2462



11G_Ant_2412



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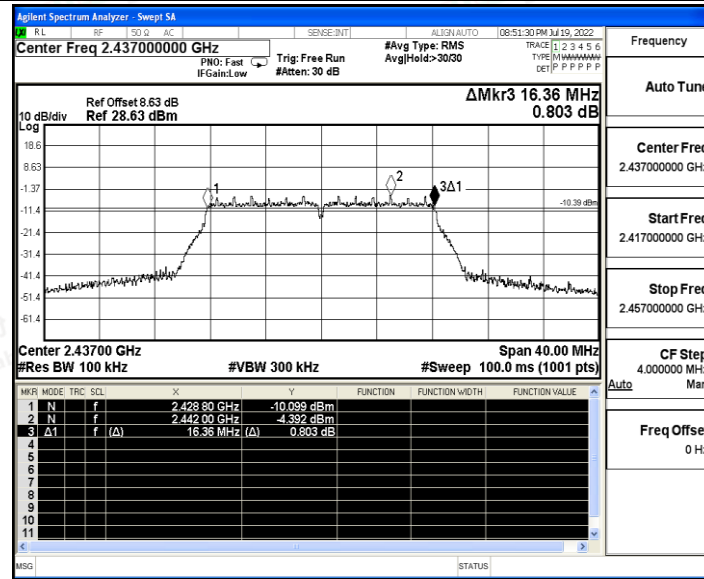
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

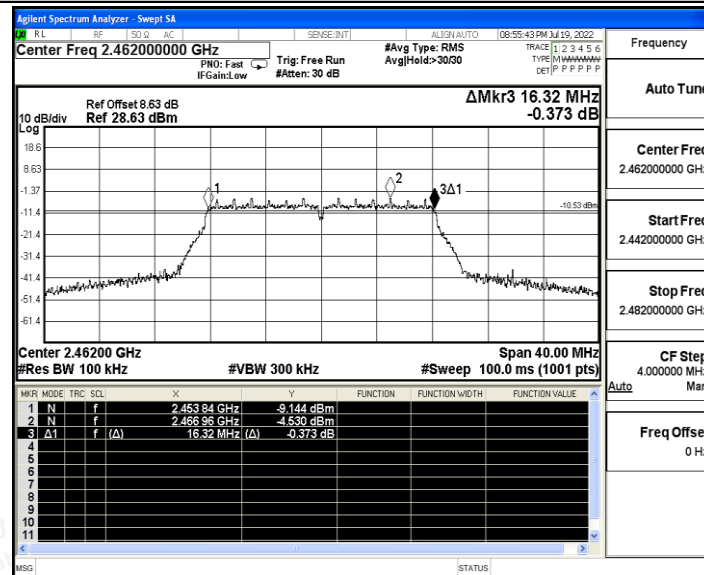
Scan code to check authenticity



11G_Ant_2437



11G_Ant_2462



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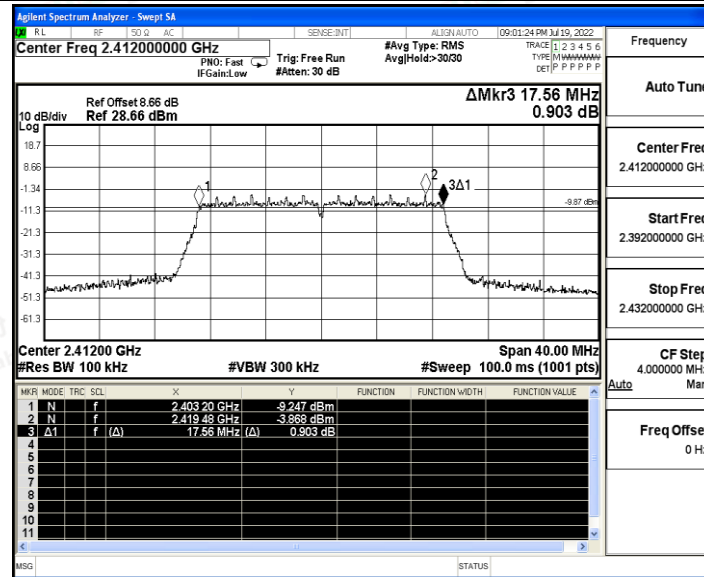
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

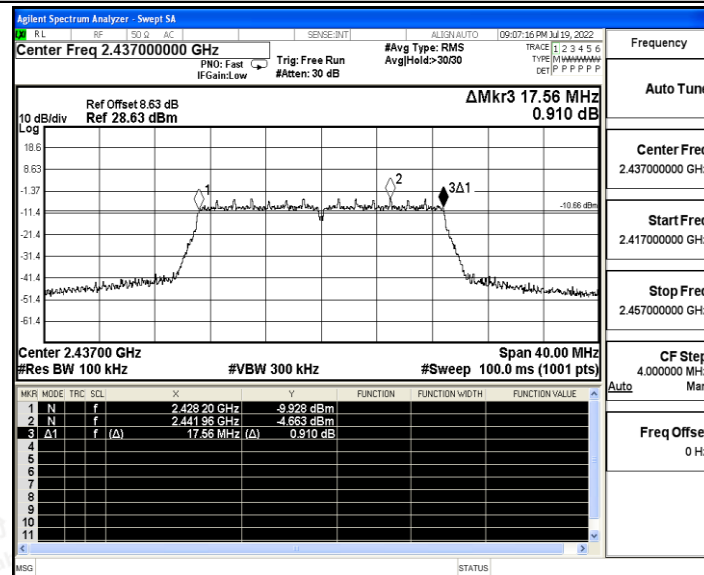
Scan code to check authenticity



11N20SISO_Ant_2412



11N20SISO_Ant_2437



Shenzhen LCS Compliance Testing Laboratory Ltd.

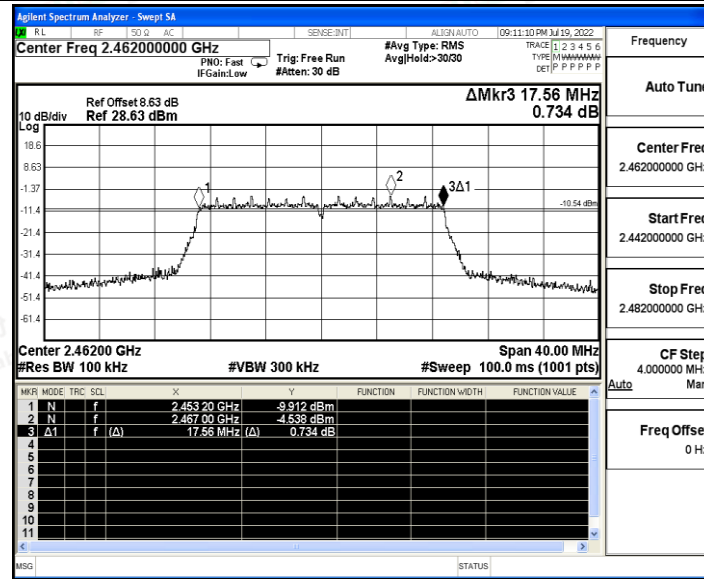
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11N20SISO_Ant_2462



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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	15.55	≤30.00	PASS
		2437	14.62	≤30.00	PASS
		2462	14.38	≤30.00	PASS
11G	Ant	2412	15.71	≤30.00	PASS
		2437	14.68	≤30.00	PASS
		2462	13.94	≤30.00	PASS
11N20SISO	Ant	2412	15.25	≤30.00	PASS
		2437	14.68	≤30.00	PASS
		2462	13.92	≤30.00	PASS



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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-11.27	≤8.00	PASS
		2437	-11.77	≤8.00	PASS
		2462	-12.45	≤8.00	PASS
11G	Ant	2412	-18.73	≤8.00	PASS
		2437	-18.56	≤8.00	PASS
		2462	-18.96	≤8.00	PASS
11N20SISO	Ant	2412	-18.38	≤8.00	PASS
		2437	-19.14	≤8.00	PASS
		2462	-19.75	≤8.00	PASS



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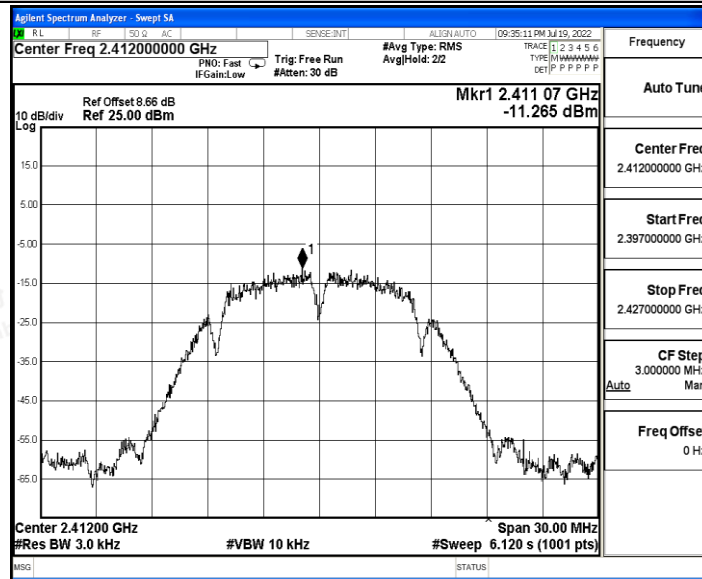
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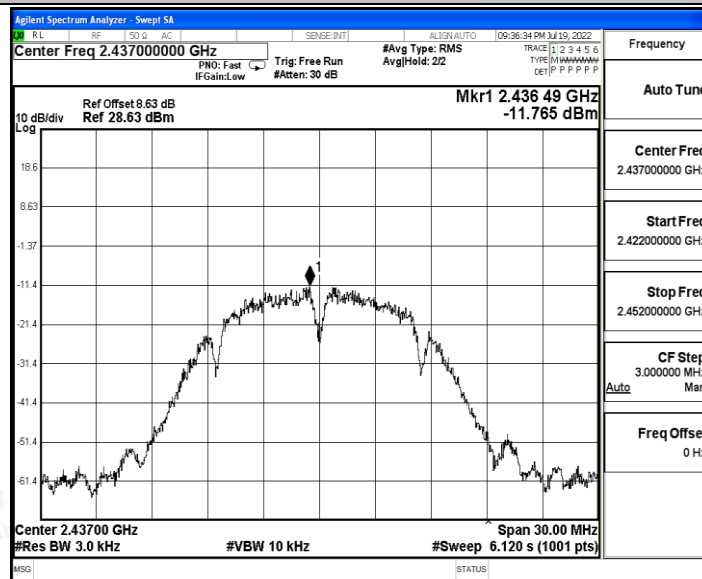


Test Graphs

11B_Ant_2412



11B_Ant_2437



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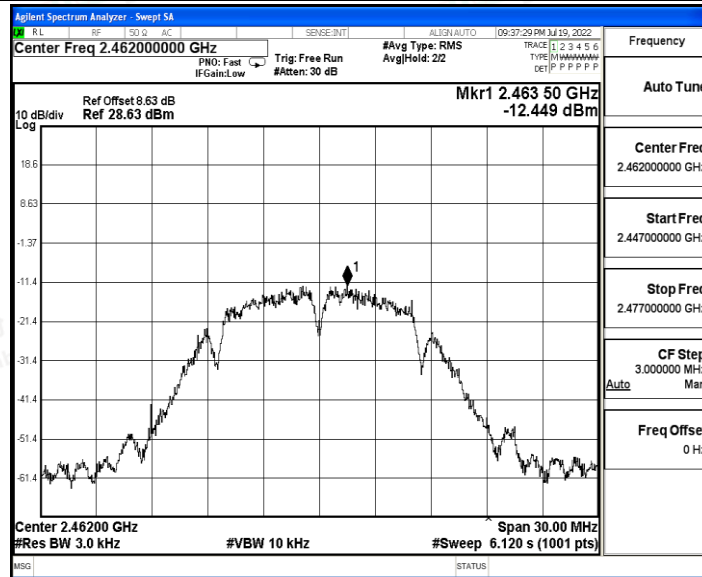
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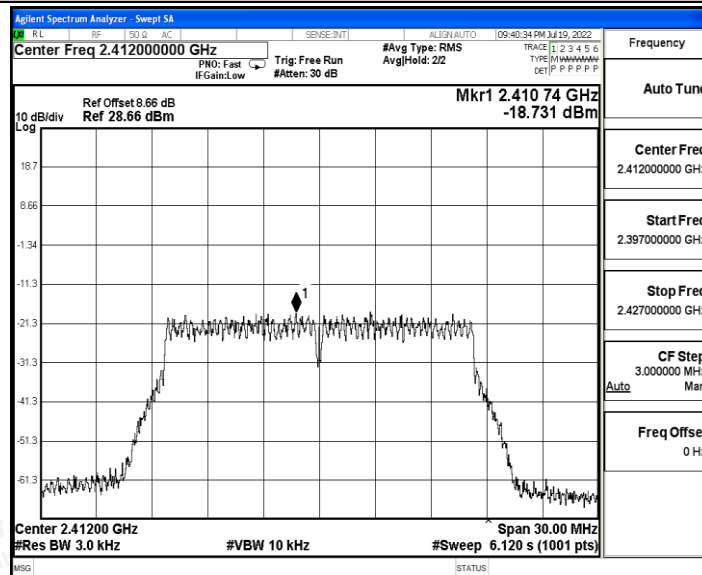
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11B_Ant_2462



11G_Ant_2412



Shenzhen LCS Compliance Testing Laboratory Ltd.

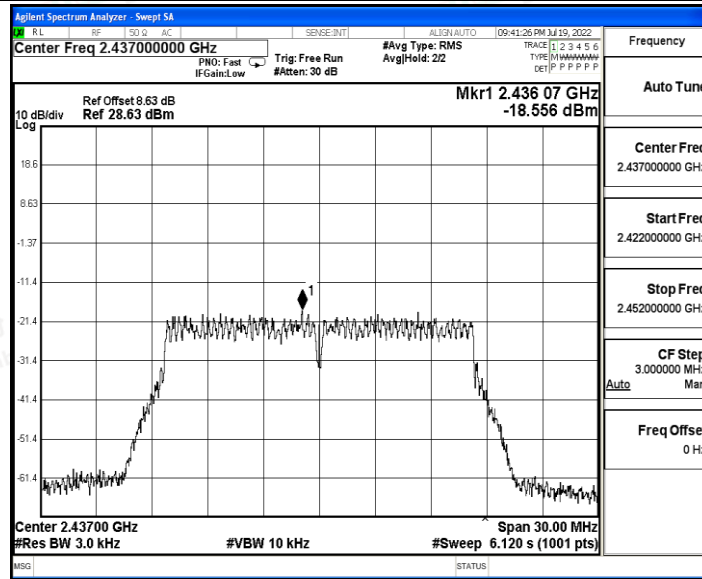
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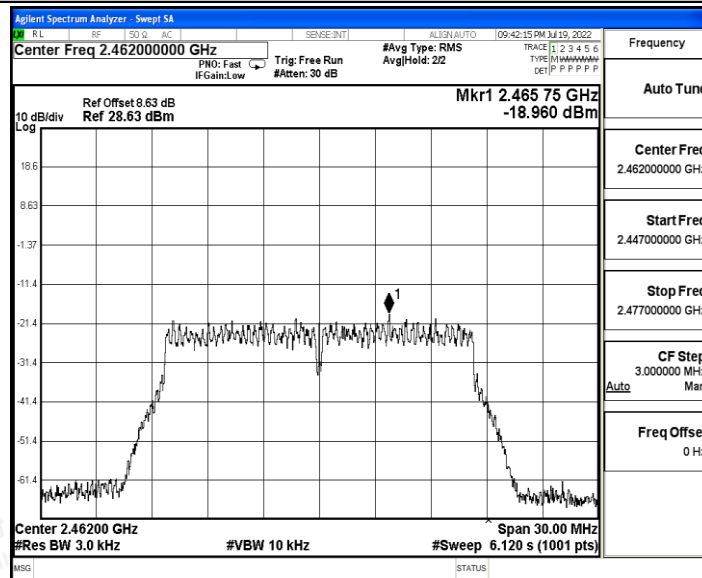
Scan code to check authenticity



11G_Ant_2437



11G_Ant_2462



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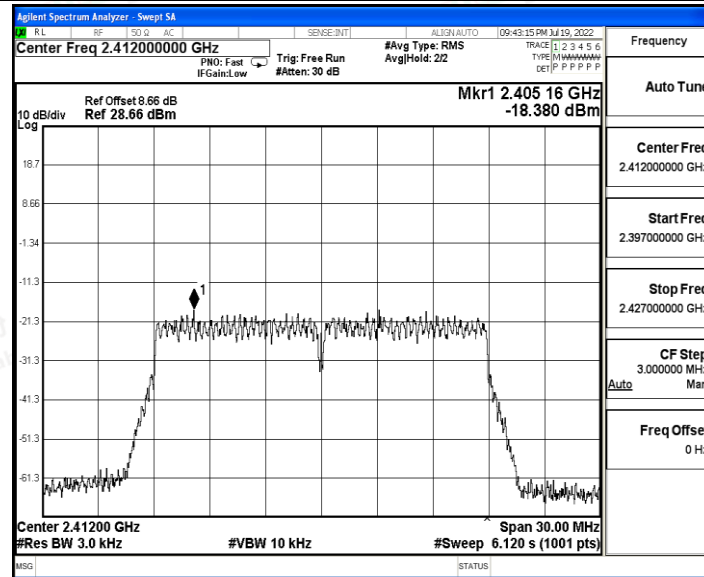
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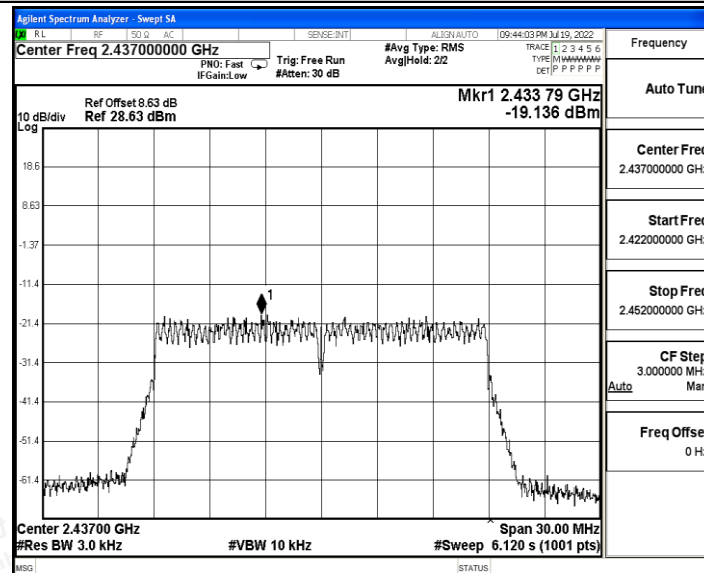
Scan code to check authenticity



11N20SISO_Ant_2412



11N20SISO_Ant_2437



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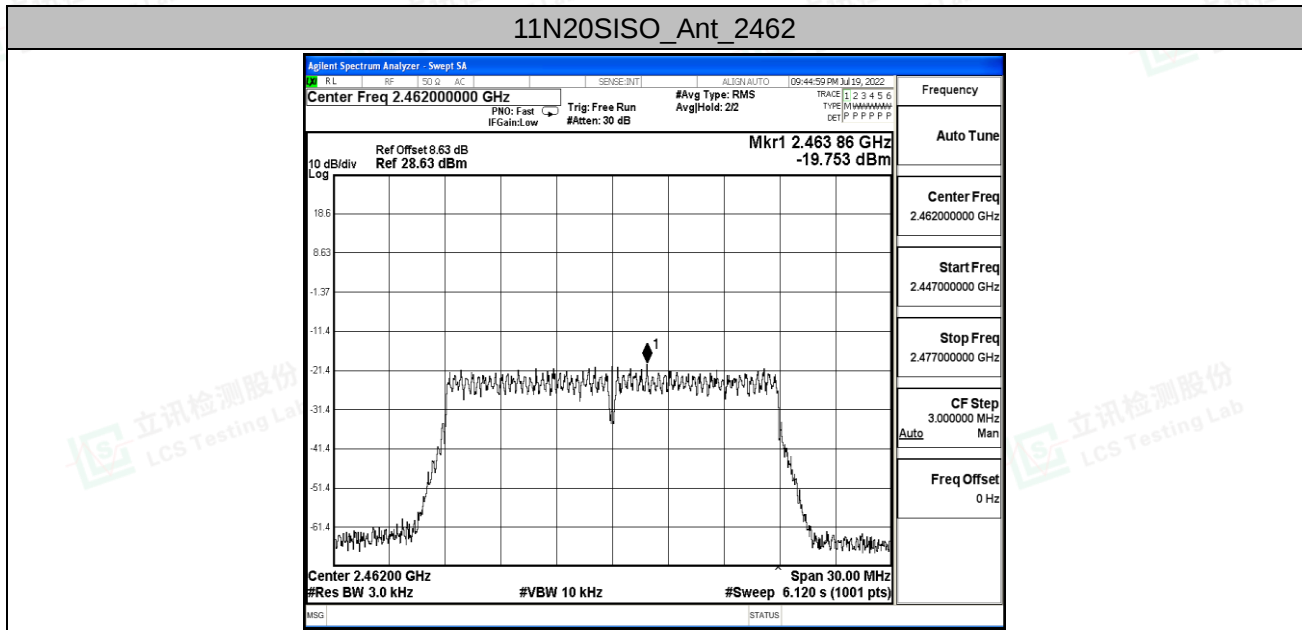
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B.4 Band edge measurements

Test Result

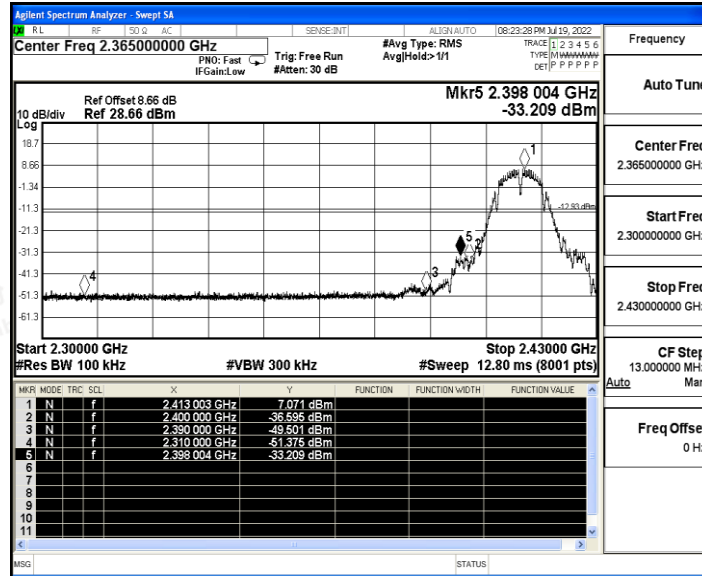
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	7.07	-33.21	≤-12.93	PASS
		High	2462	4.61	-46.73	≤-15.39	PASS
11G	Ant	Low	2412	2.00	-29.24	≤-18	PASS
		High	2462	-4.24	-47.14	≤-24.24	PASS
11N20SISO	Ant	Low	2412	-4.05	-41.28	≤-24.05	PASS
		High	2462	-4.23	-47.25	≤-24.23	PASS



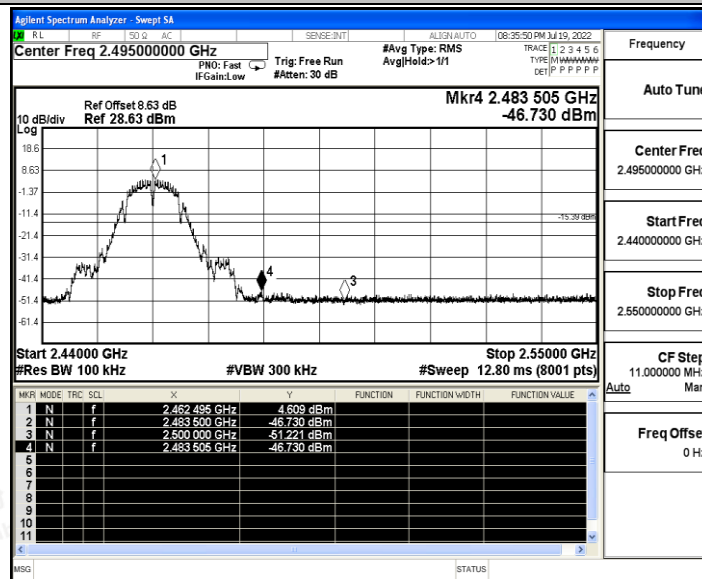


Test Graphs

11B_Ant_Low_2412



11B_Ant_High_2462



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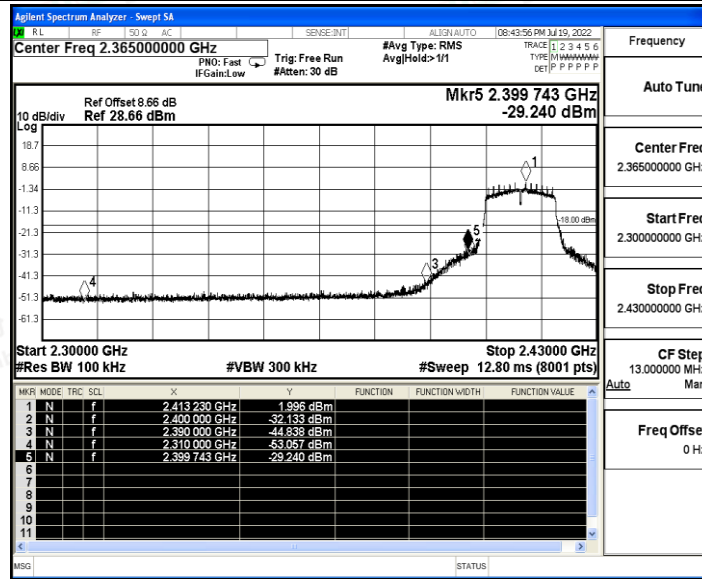
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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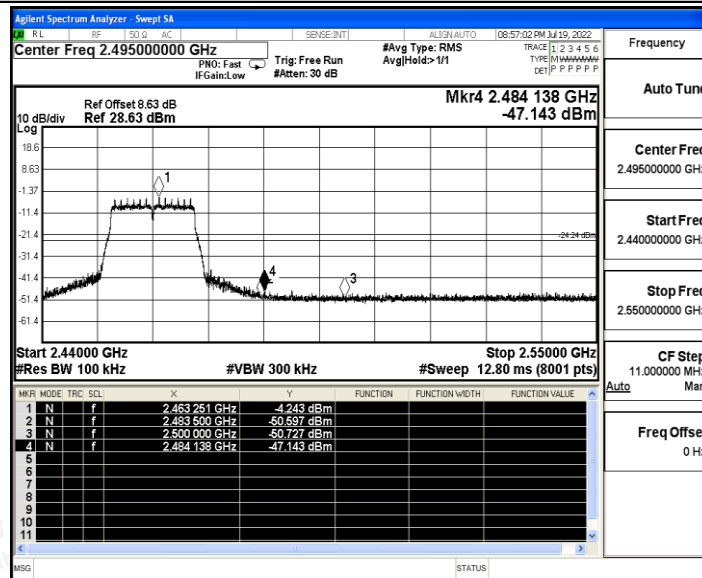
Scan code to check authenticity



11G_Ant_Low_2412



11G_Ant_High_2462



Shenzhen LCS Compliance Testing Laboratory Ltd.

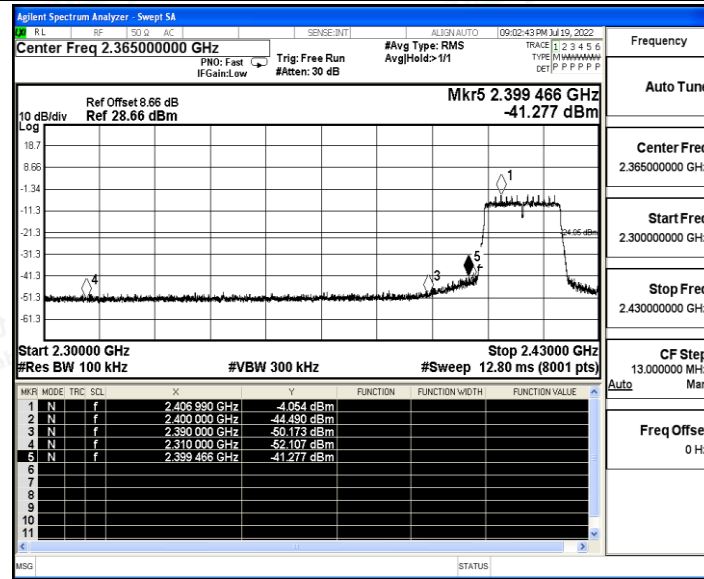
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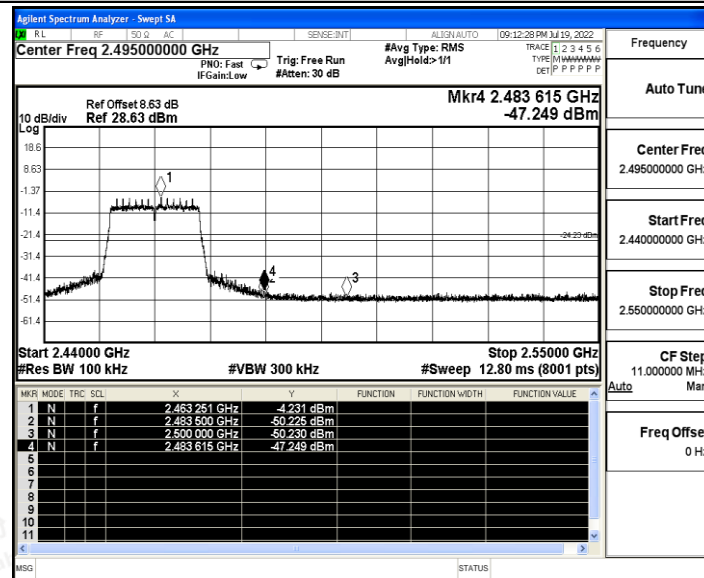
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11N20SISO_Ant_Low_2412



11N20SISO_Ant_High_2462



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	7.07	7.07	---	PASS
			30~1000	7.07	-56.87	≤-12.93	PASS
			1000~26500	7.07	-45.45	≤-12.93	PASS
		2437	Reference	6.04	6.04	---	PASS
			30~1000	6.04	-56.17	≤-13.96	PASS
			1000~26500	6.04	-45.94	≤-13.96	PASS
		2462	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-56.69	≤-15.29	PASS
			1000~26500	4.71	-46.21	≤-15.29	PASS
11G	Ant	2412	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-57.5	≤-18.25	PASS
			1000~26500	1.75	-46.38	≤-18.25	PASS
		2437	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-57.93	≤-24.28	PASS
			1000~26500	-4.28	-46.46	≤-24.28	PASS
		2462	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-57.25	≤-24.44	PASS
			1000~26500	-4.44	-46.07	≤-24.44	PASS
11N20SISO	Ant	2412	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-57.12	≤-23.51	PASS
			1000~26500	-3.51	-46.12	≤-23.51	PASS
		2437	Reference	-4.27	-4.27	---	PASS
			30~1000	-4.27	-57.72	≤-24.27	PASS
			1000~26500	-4.27	-45.61	≤-24.27	PASS
		2462	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-57.53	≤-24.51	PASS
			1000~26500	-4.51	-45.77	≤-24.51	PASS



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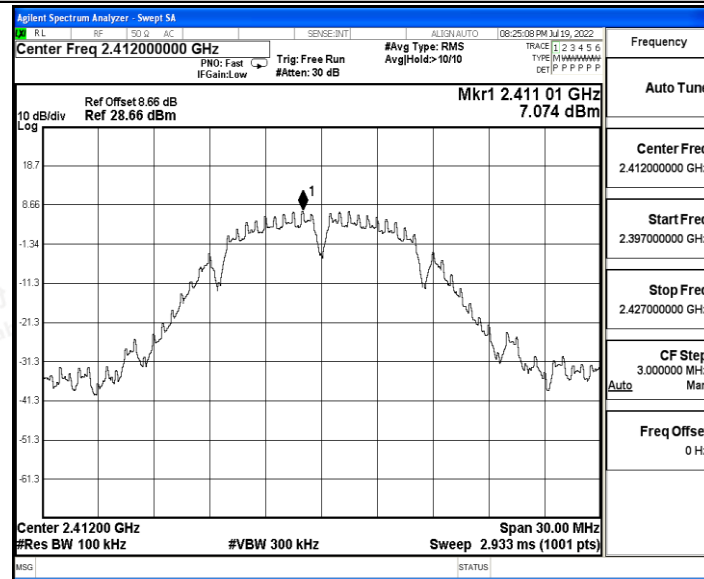
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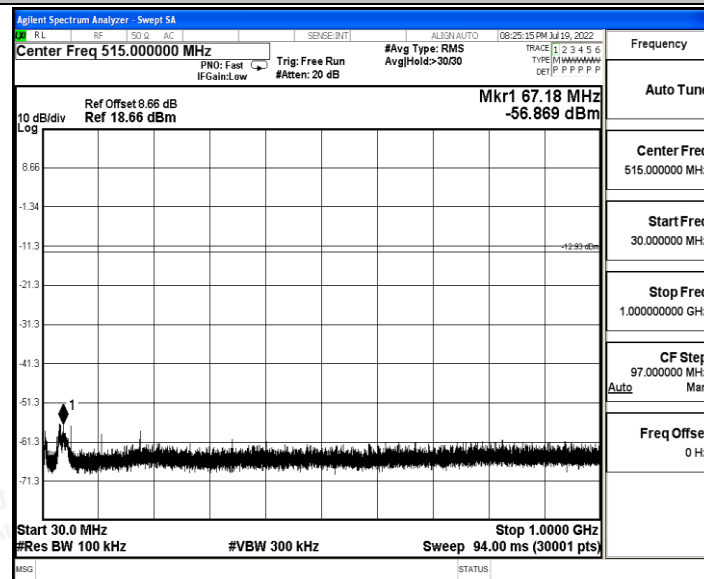


Test Graphs

11B_Ant_2412_0~Reference



11B_Ant_2412_30~1000



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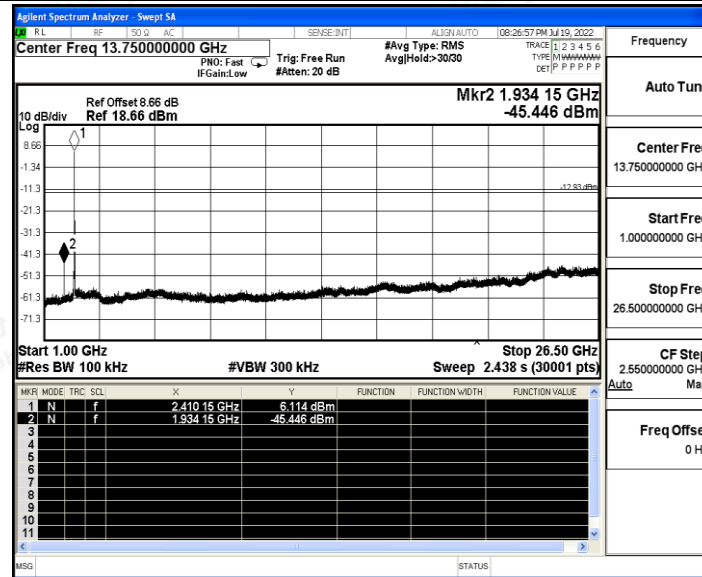
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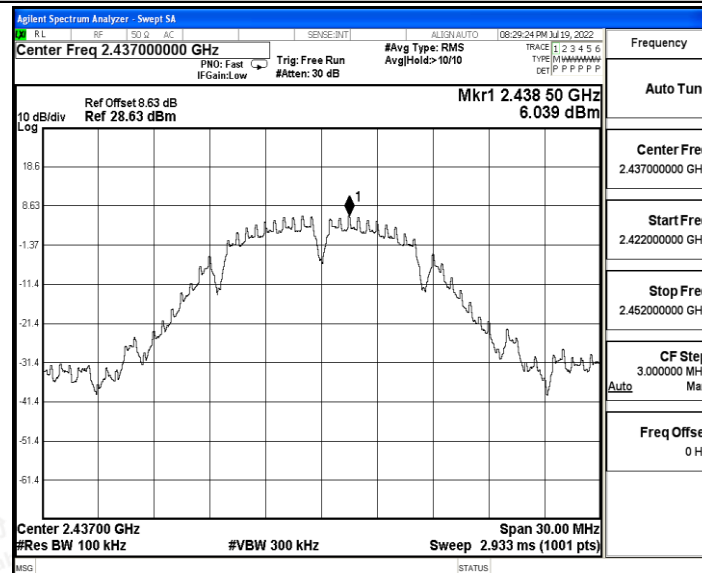
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11B_Ant_2412_1000~26500



11B_Ant_2437_0~Reference



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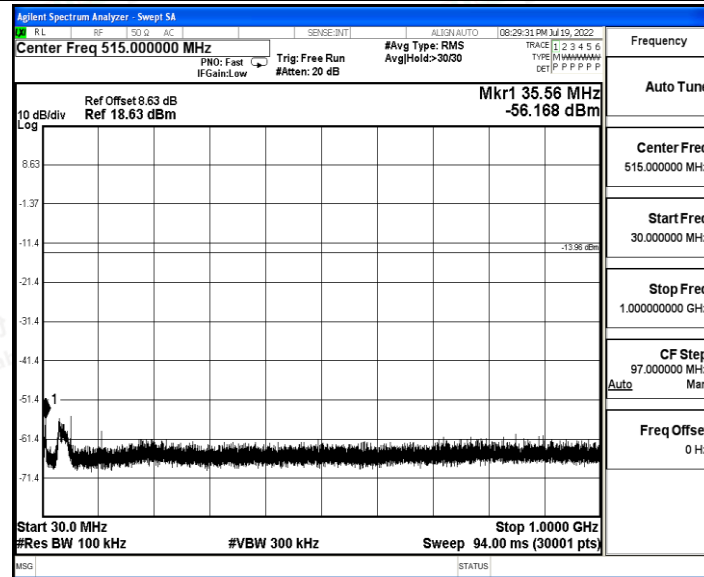
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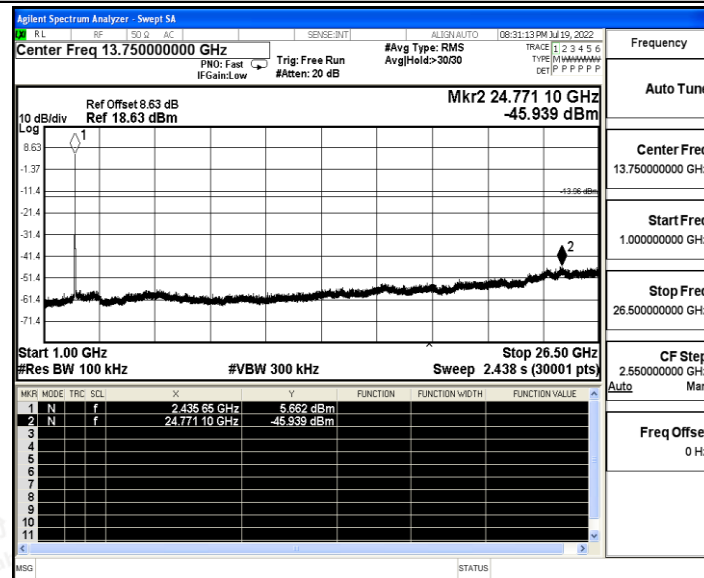
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11B_Ant_2437_30-1000



11B_Ant_2437_1000-26500



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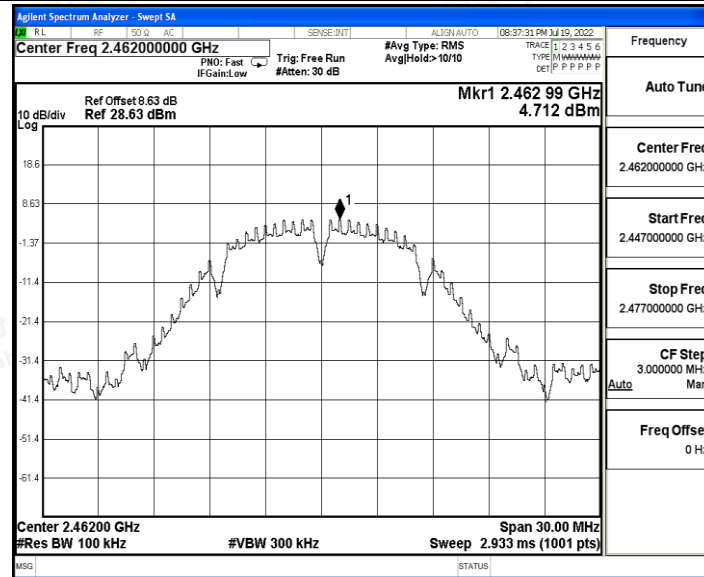
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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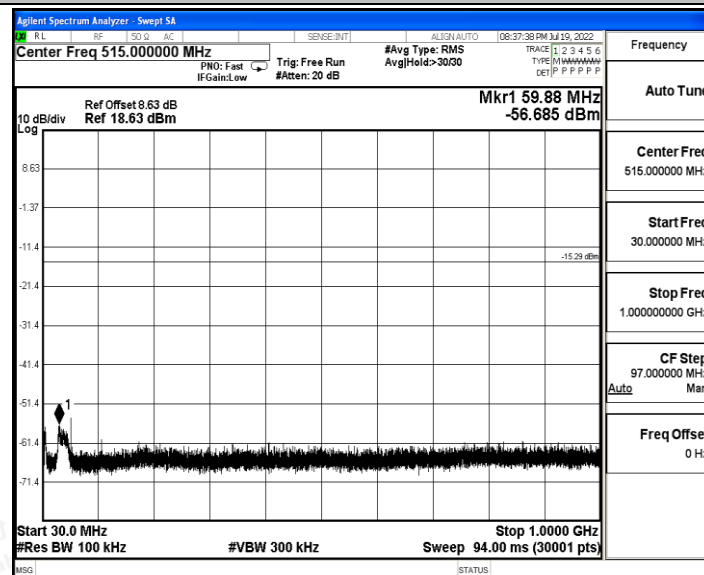
Scan code to check authenticity



11B_Ant_2462_0~Reference



11B_Ant_2462_30~1000



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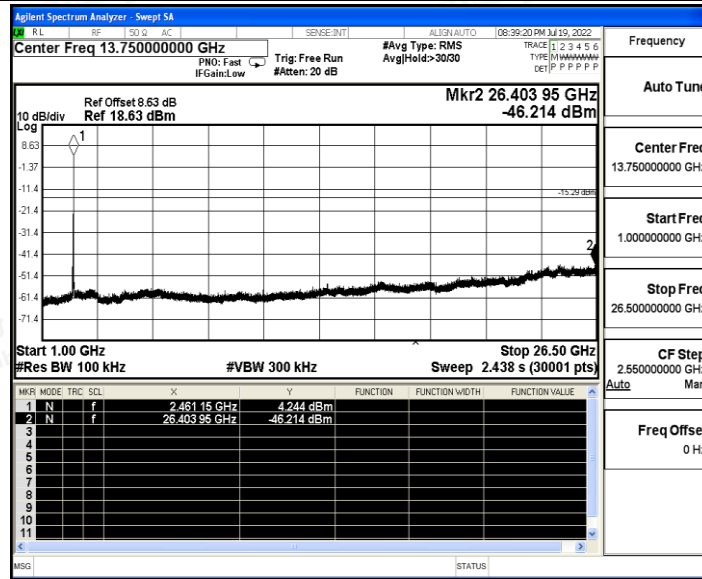
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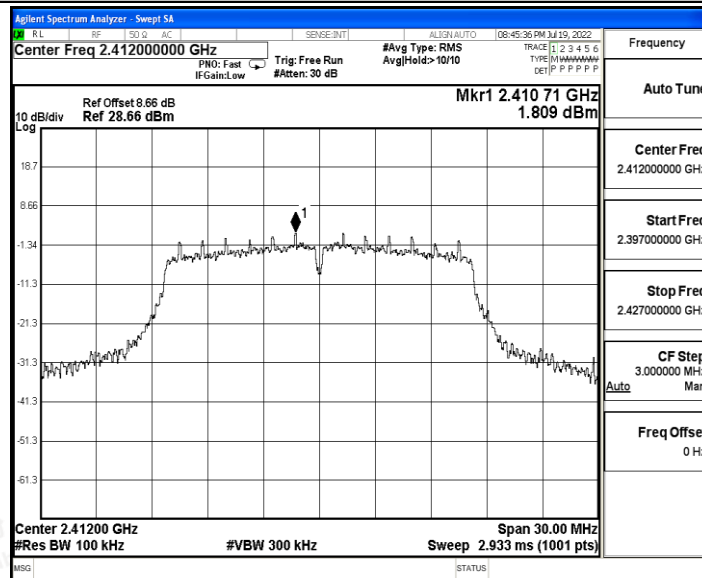
Scan code to check authenticity



11B_Ant_2462_1000~26500



11G_Ant_2412_0~Reference



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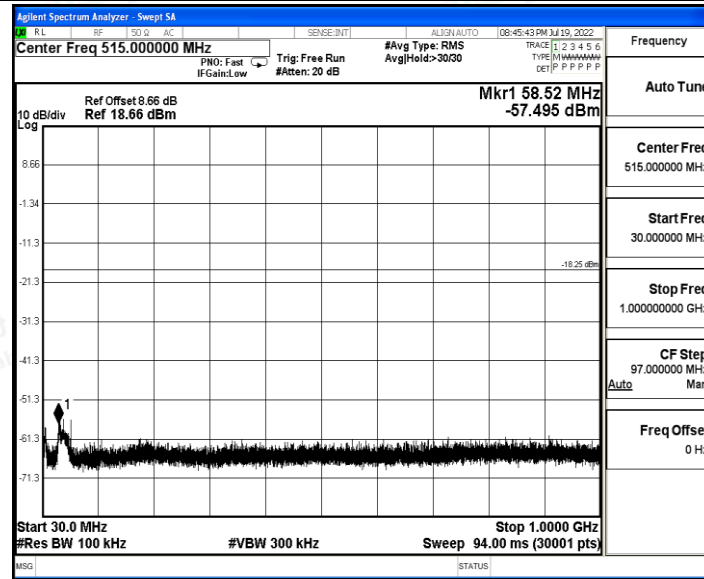
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

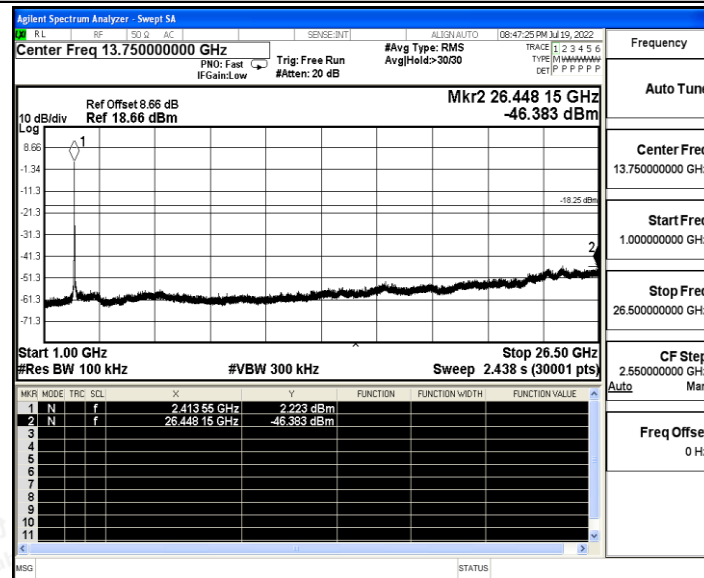
Scan code to check authenticity



11G_Ant_2412_30~1000



11G_Ant_2412_1000~26500



Shenzhen LCS Compliance Testing Laboratory Ltd.

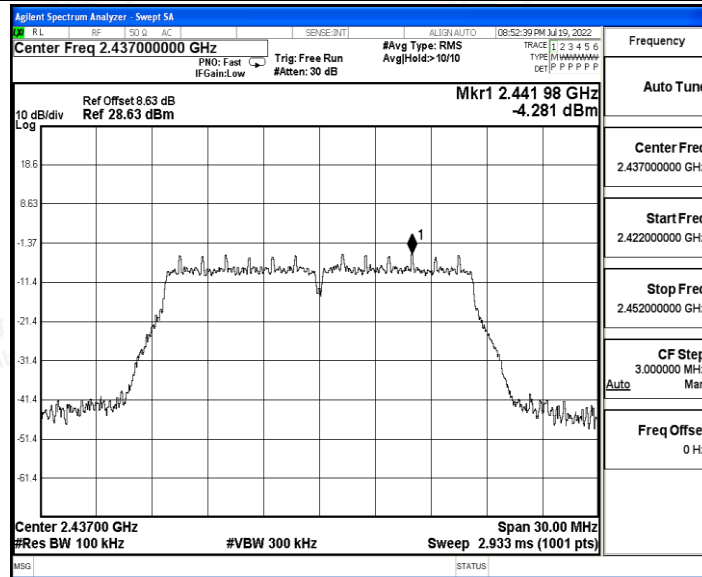
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

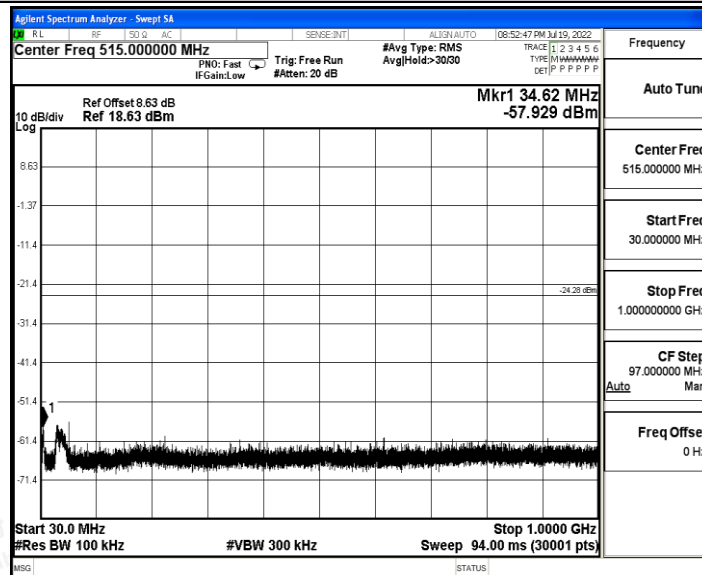
Scan code to check authenticity



11G_Ant_2437_0~Reference



11G_Ant_2437_30~1000



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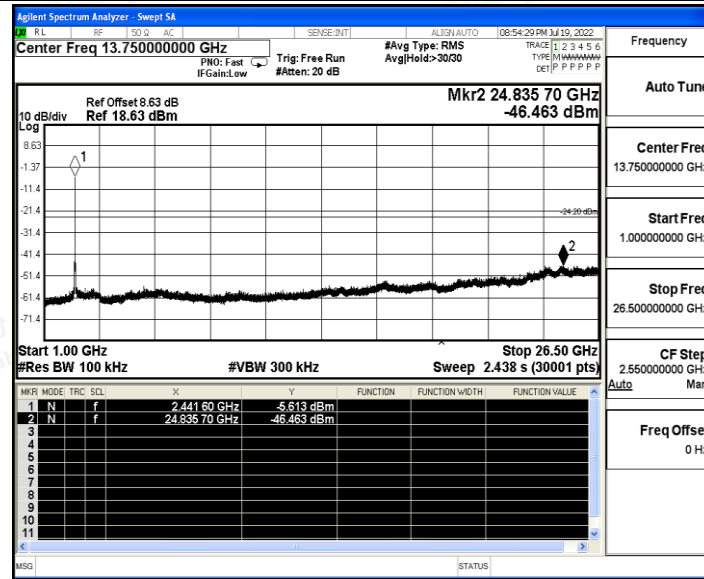
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

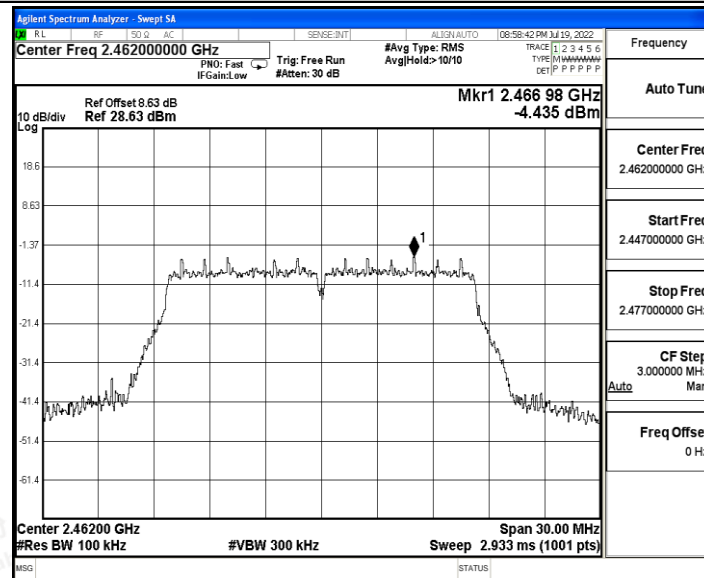
Scan code to check authenticity



11G_Ant_2437_1000~26500



11G_Ant_2462_0~Reference



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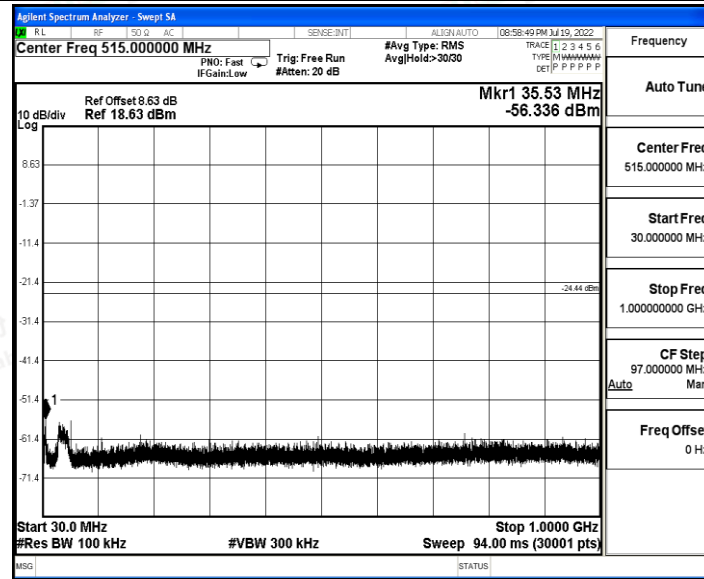
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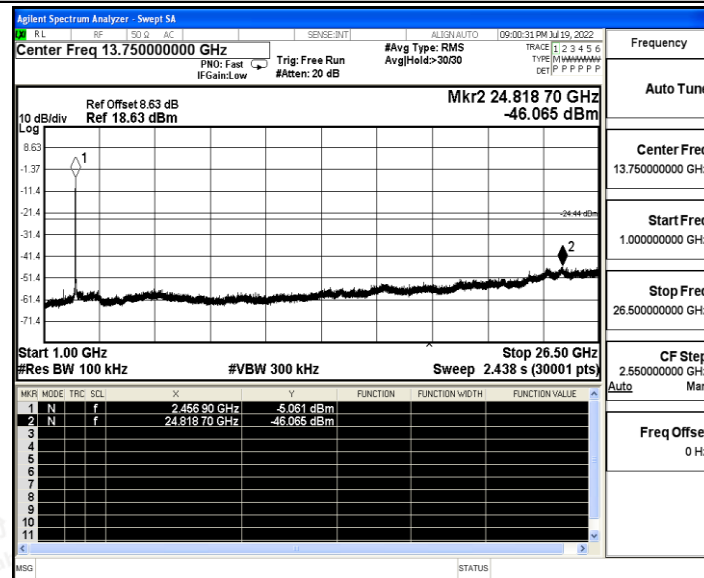
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11G_Ant_2462_30~1000



11G_Ant_2462_1000~26500



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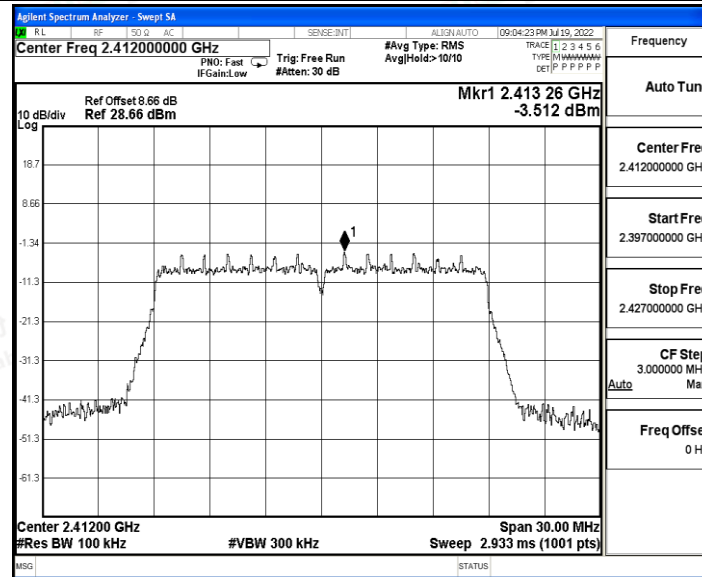
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

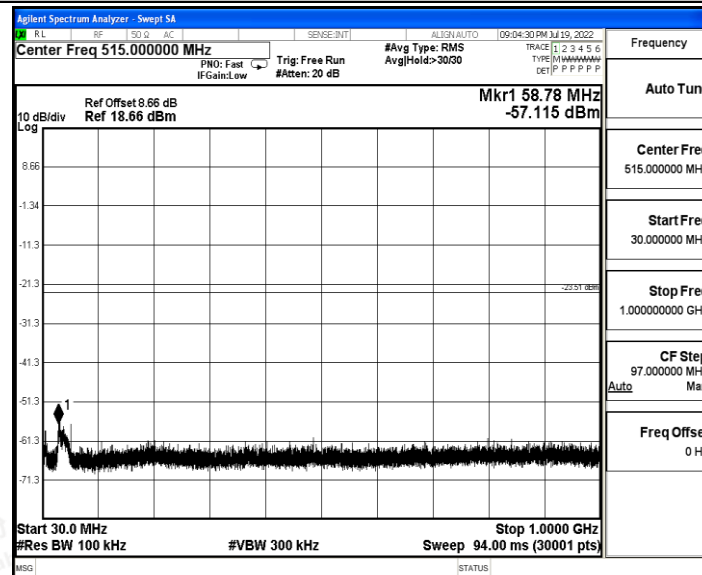
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11N20SISO_Ant_2412_0~Reference



11N20SISO_Ant_2412_30~1000



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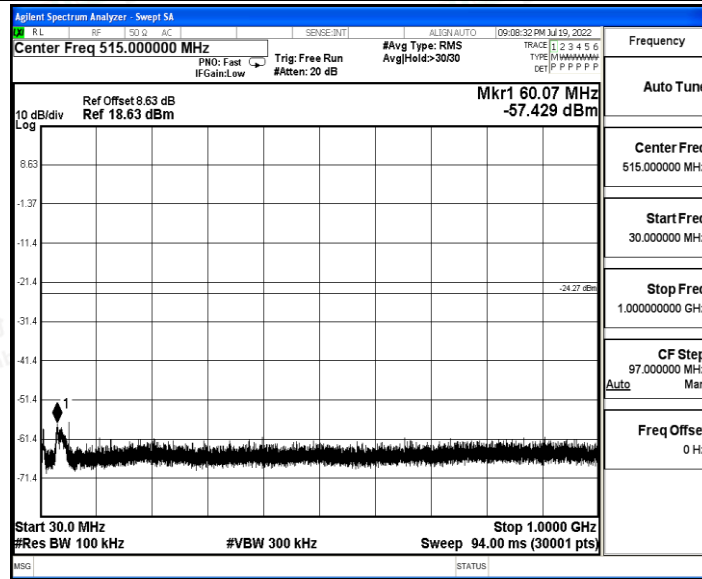
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

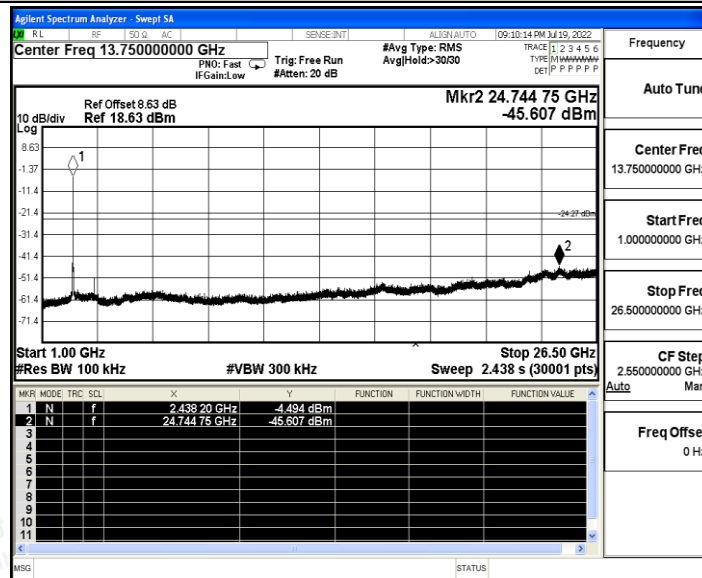
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11N20SISO_Ant_2437_30~1000



11N20SISO_Ant_2437_1000~26500



Shenzhen LCS Compliance Testing Laboratory Ltd.

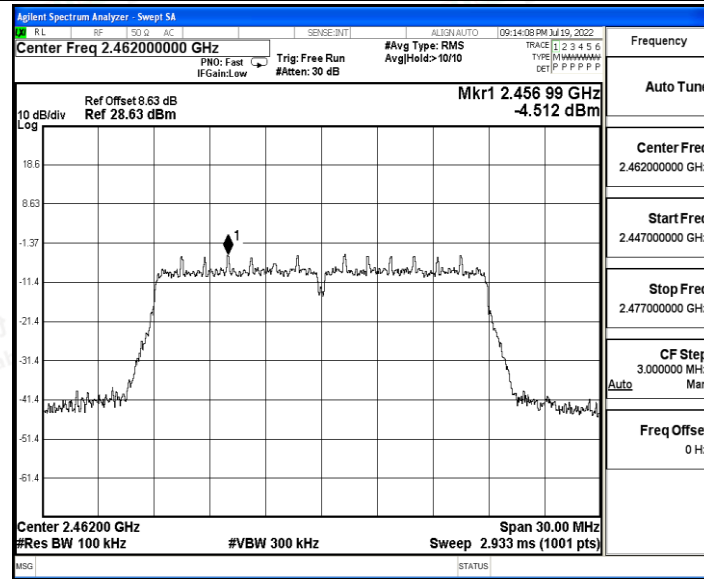
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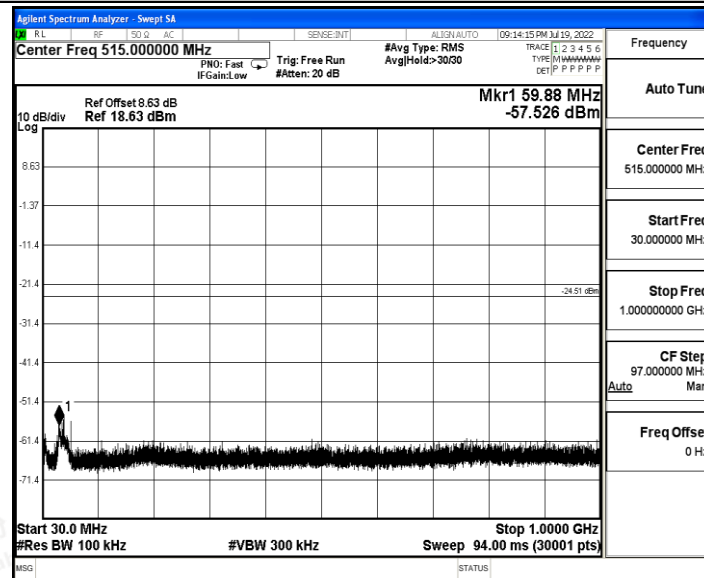
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11N20SISO_Ant_2462_30~1000



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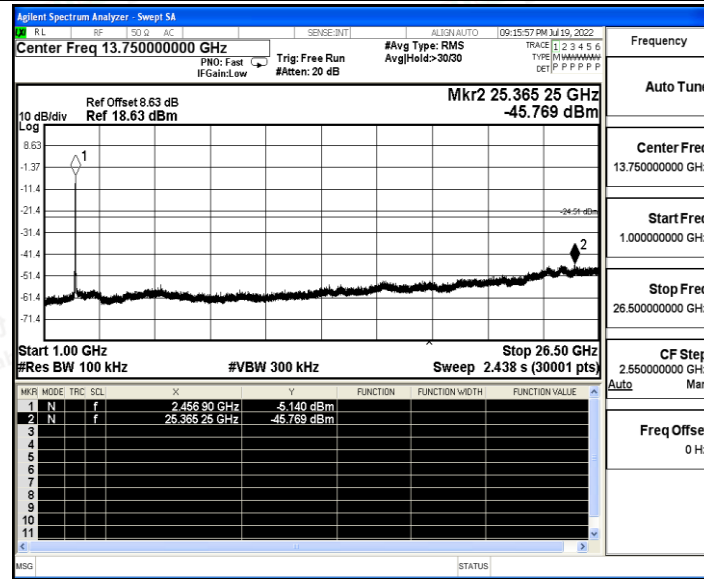
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11N20SISO_Ant_2462_1000~26500



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B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant	2412	8.39	8.42	99.64
		2437	8.39	8.42	99.64
		2462	8.39	8.42	99.64
11G	Ant	2412	1.39	1.43	97.20
		2437	1.39	1.43	97.20
		2462	1.39	1.43	97.20
11N20SISO	Ant	2412	1.30	1.34	97.01
		2437	1.30	1.33	97.74
		2462	1.30	1.34	97.01



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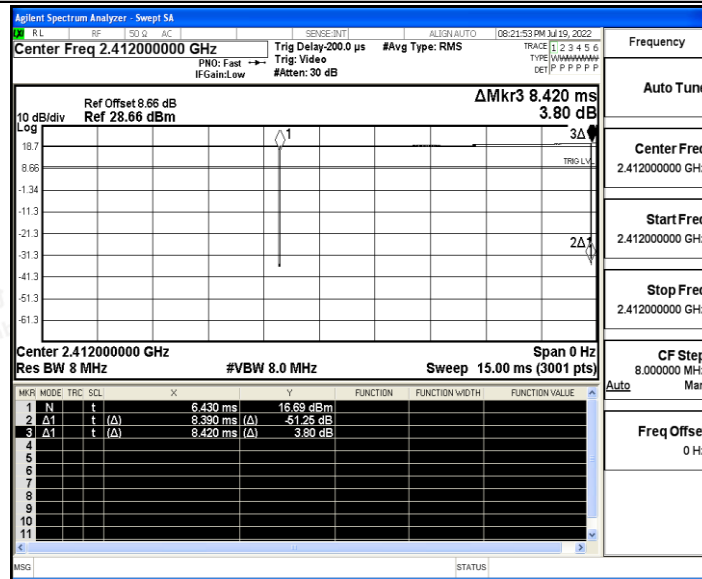
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Scan code to check authenticity

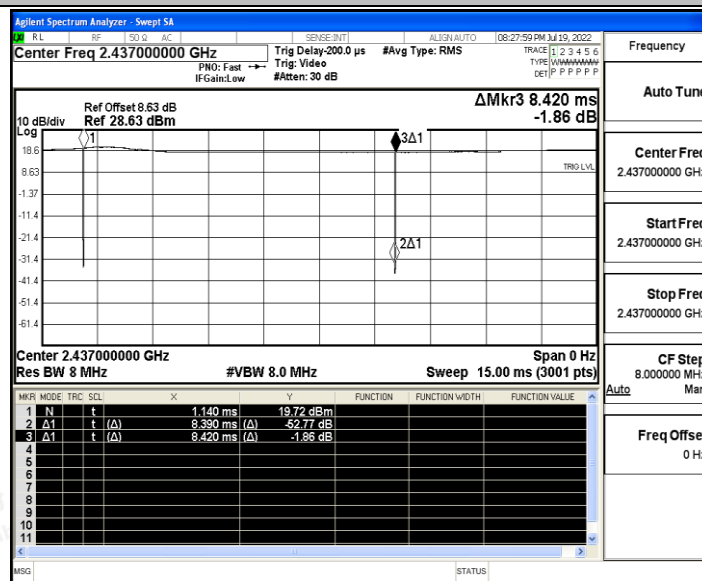


Test Graphs

11B_Ant_2412



11B_Ant_2437



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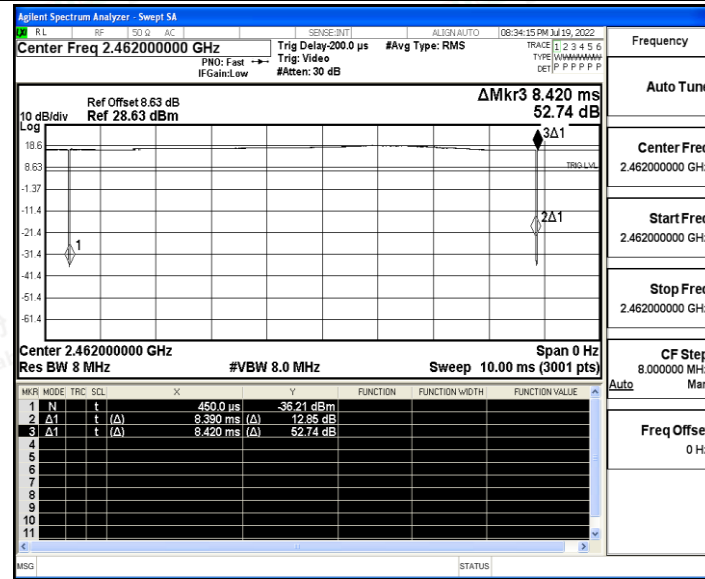
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

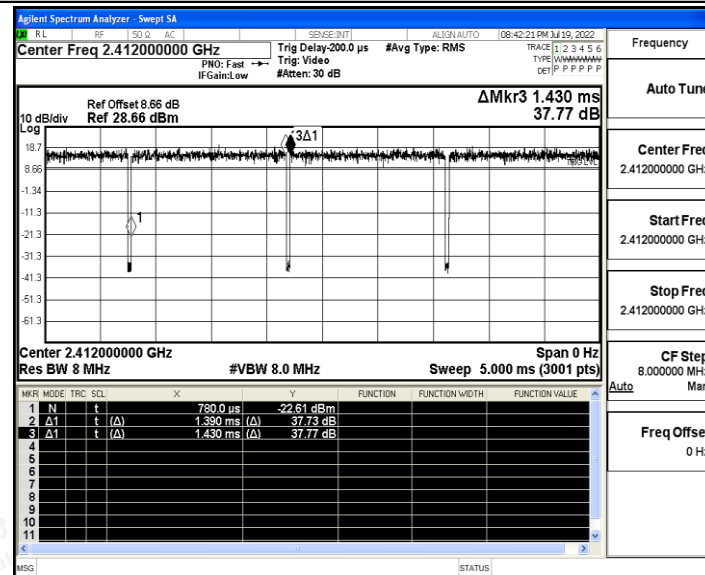
Scan code to check authenticity



11B_Ant_2462



11G_Ant_2412



Shenzhen LCS Compliance Testing Laboratory Ltd.

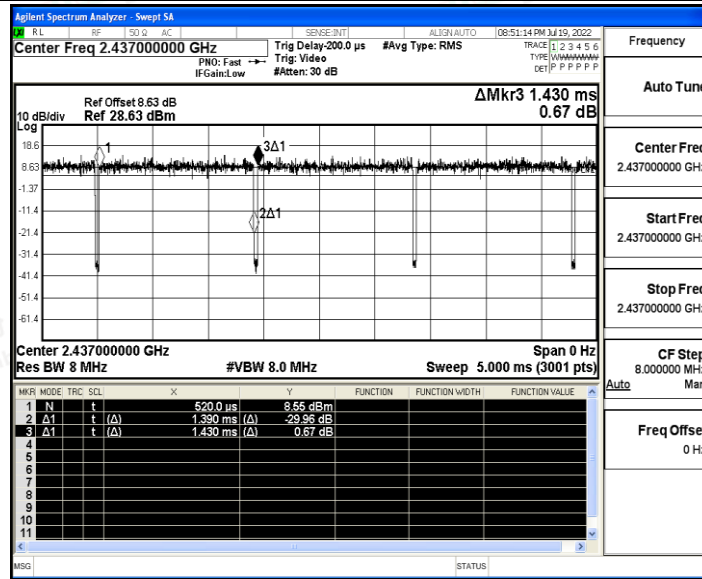
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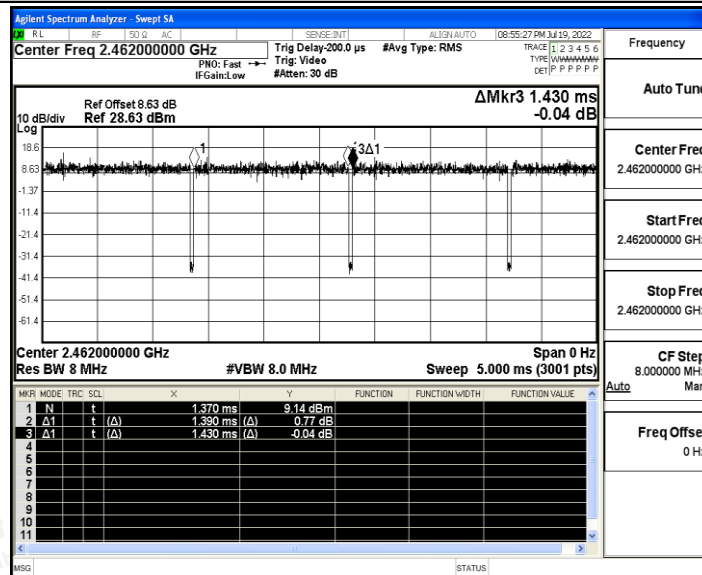
Scan code to check authenticity



11G_Ant_2437



11G_Ant_2462



Shenzhen LCS Compliance Testing Laboratory Ltd.

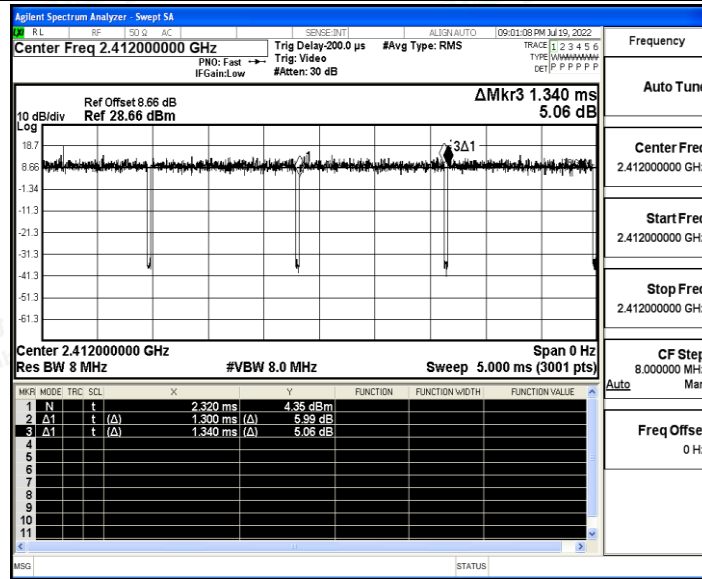
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

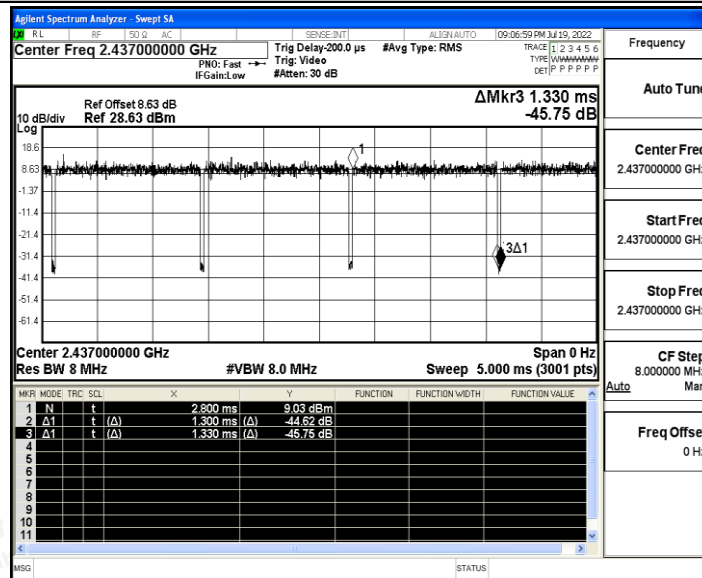
Scan code to check authenticity



11N20SISO_Ant_2412



11N20SISO_Ant_2437



Shenzhen LCS Compliance Testing Laboratory Ltd.

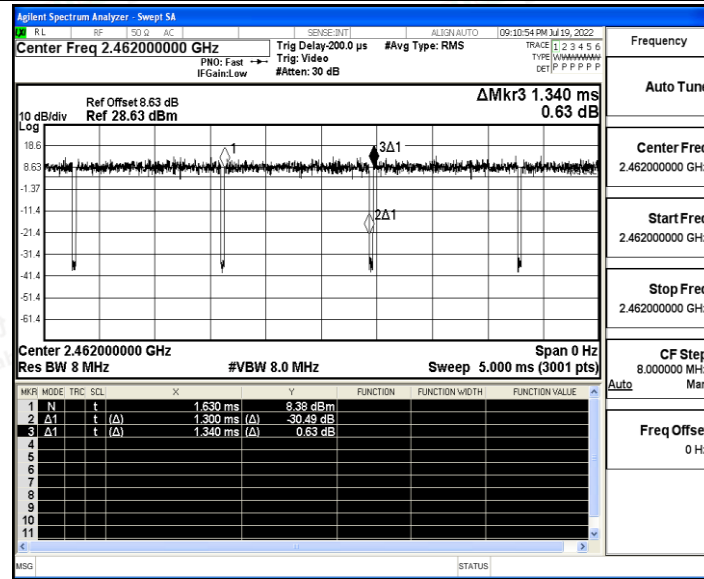
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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant	Low	2412	AV	2310.000	-58.19	≤-41.20	37.01	≤54	PASS
				AV	2386.450	-46.9	≤-41.20	48.30	≤54	PASS
				AV	2390.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2310.000	-47.75	≤-21.20	47.45	≤74	PASS
				Peak	2386.710	-39.66	≤-21.20	55.54	≤74	PASS
				Peak	2390.000	-40.39	≤-21.20	54.81	≤74	PASS
		High	2462	AV	2483.500	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2483.560	-49.66	≤-41.20	45.54	≤54	PASS
				AV	2500.000	-56.45	≤-41.20	38.75	≤54	PASS
				Peak	2483.500	-41.66	≤-21.20	53.54	≤74	PASS
				Peak	2483.560	-40.9	≤-21.20	54.30	≤74	PASS
				Peak	2500.000	-46.03	≤-21.20	49.17	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-56.97	≤-41.20	38.23	≤54	PASS
				AV	2389.960	-42.7	≤-41.20	52.50	≤54	PASS
				AV	2390.000	-42.7	≤-41.20	52.50	≤54	PASS
				Peak	2310.000	-46.54	≤-21.20	48.66	≤74	PASS
				Peak	2389.960	-24.78	≤-21.20	70.42	≤74	PASS
				Peak	2390.000	-24.78	≤-21.20	70.42	≤74	PASS
		High	2462	AV	2483.500	-49.71	≤-41.20	45.49	≤54	PASS
				AV	2483.560	-49.78	≤-41.20	45.42	≤54	PASS
				AV	2500.000	-54.03	≤-41.20	41.17	≤54	PASS
				Peak	2483.500	-32.66	≤-21.20	62.54	≤74	PASS
				Peak	2483.560	-31.59	≤-21.20	63.61	≤74	PASS
				Peak	2500.000	-43.77	≤-21.20	51.43	≤74	PASS
11N20SI SO	Ant	Low	2412	AV	2310.000	-57.71	≤-41.20	37.49	≤54	PASS
				AV	2389.440	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2390.000	-49.7	≤-41.20	45.50	≤54	PASS
				Peak	2310.000	-47.42	≤-21.20	47.78	≤74	PASS
				Peak	2389.830	-32.27	≤-21.20	62.93	≤74	PASS
				Peak	2390.000	-33.22	≤-21.20	61.98	≤74	PASS
		High	2462	AV	2483.500	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2483.670	-48.35	≤-41.20	46.85	≤54	PASS
				AV	2500.000	-54.09	≤-41.20	41.11	≤54	PASS
				Peak	2483.500	-31.4	≤-21.20	63.80	≤74	PASS
				Peak	2484.000	-29.86	≤-21.20	65.34	≤74	PASS



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				Peak	2500.000	-43.52	≤-21.20	51.68	≤74	PASS
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Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



Test Graphs



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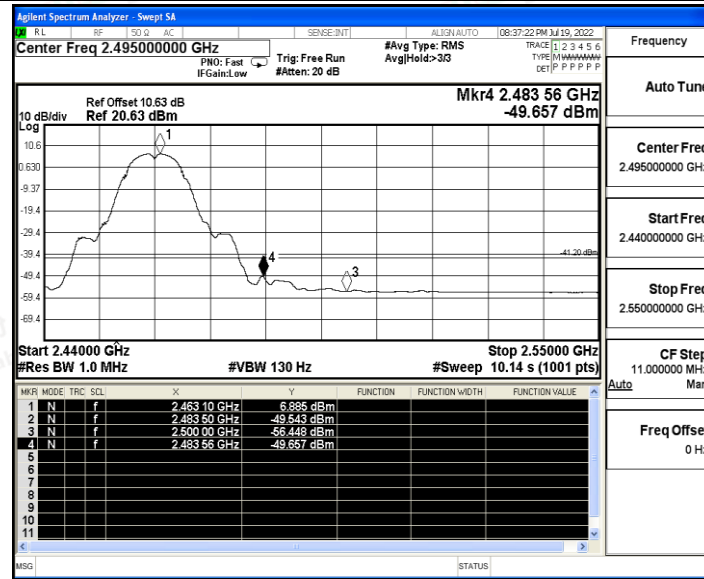
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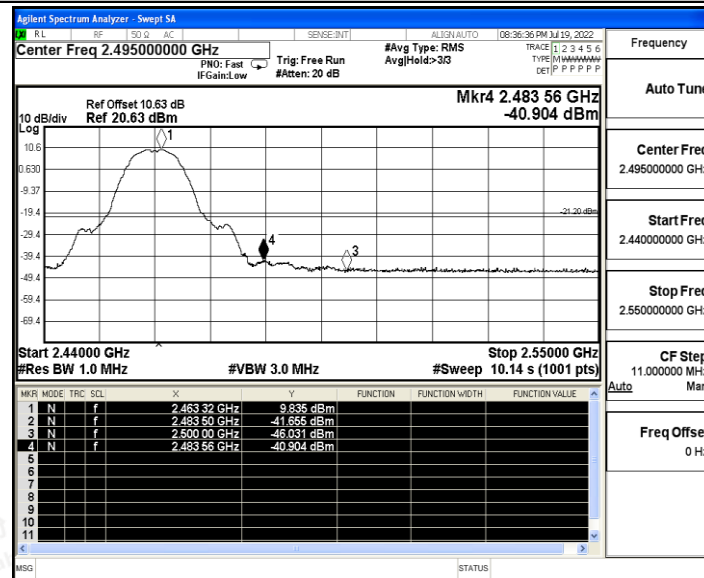
Scan code to check authenticity



11B_Ant_High_2462_AV



11B_Ant_High_2462_Peak



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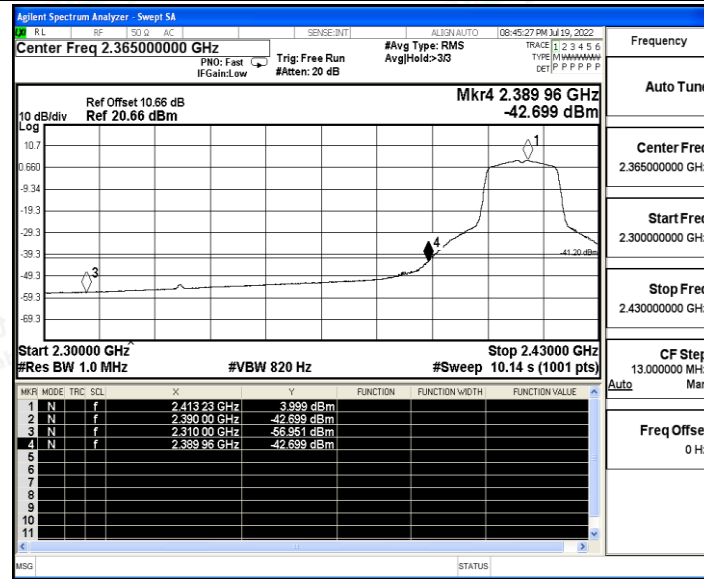
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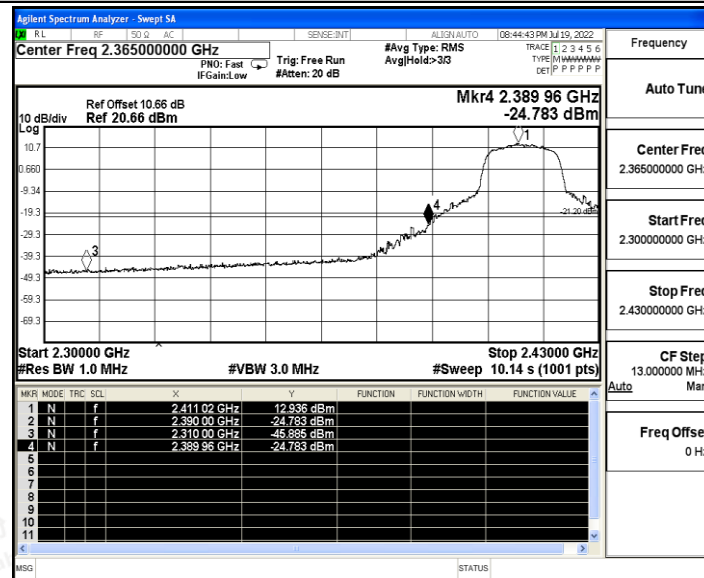
Scan code to check authenticity



11G_Ant_Low_2412_AV



11G_Ant_Low_2412_Peak



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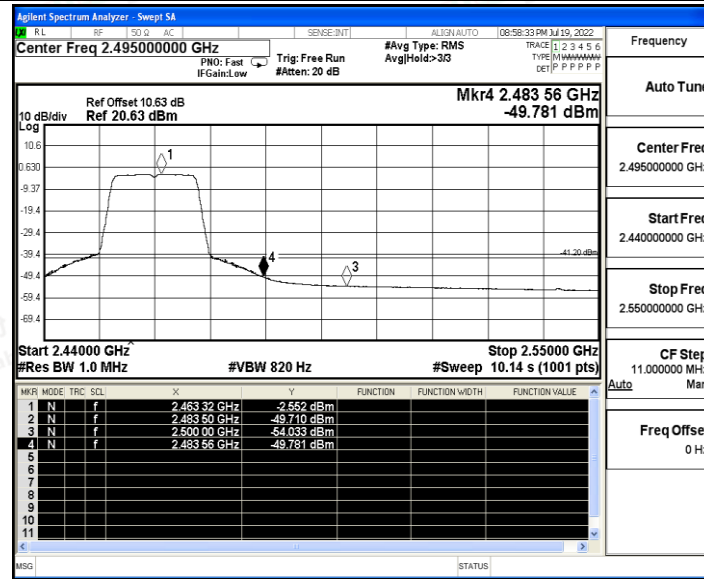
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

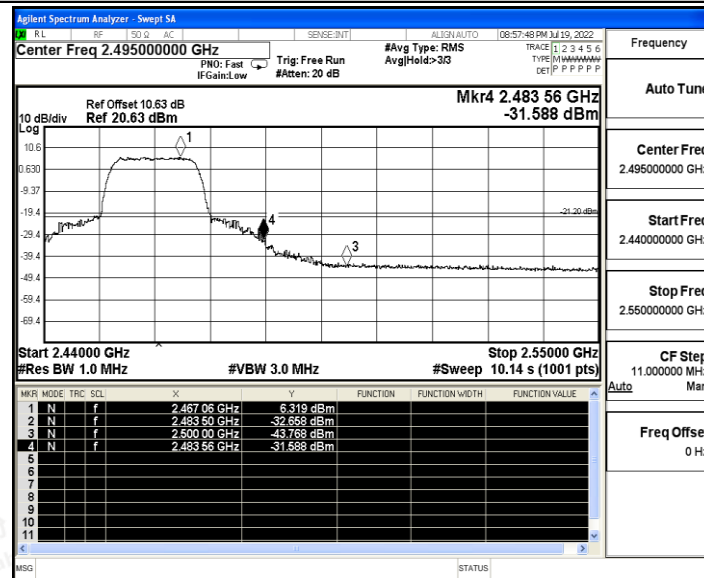
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11G_Ant_High_2462_AV



11G_Ant_High_2462_Peak



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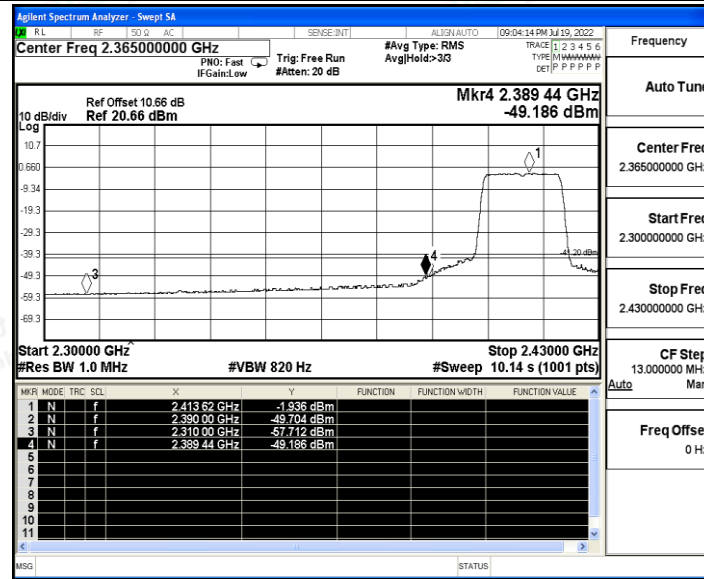
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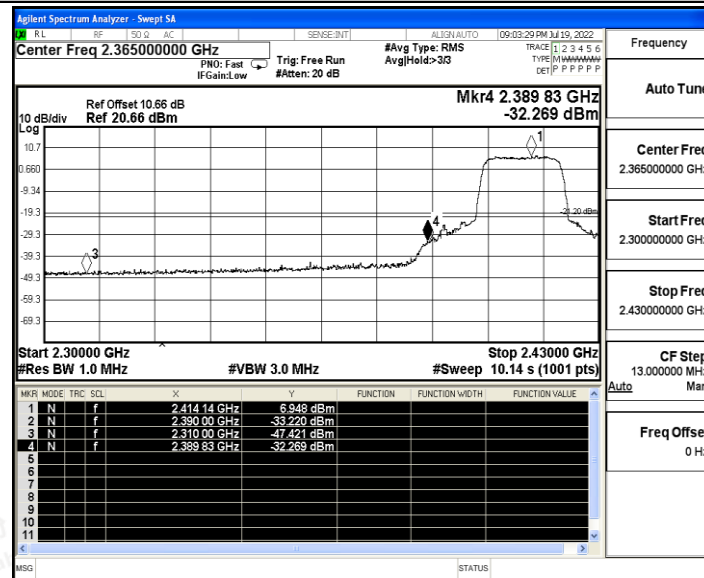
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11N20SISO_Ant_Low_2412_AV



11N20SISO_Ant_Low_2412_Peak



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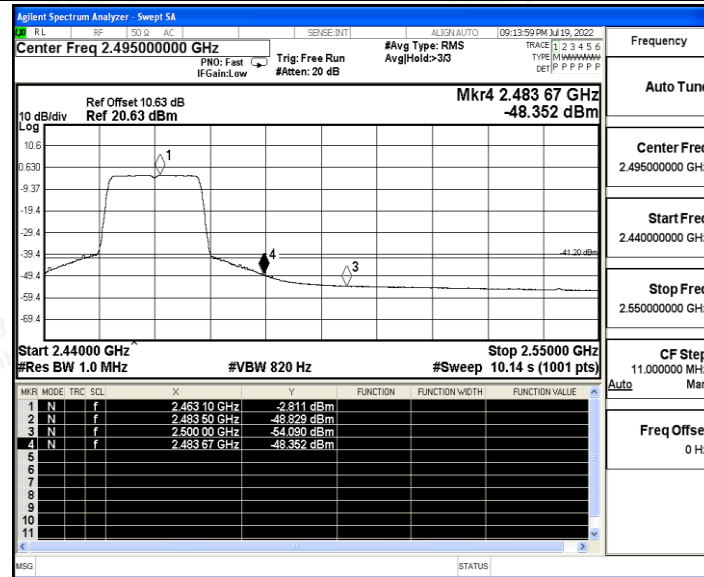
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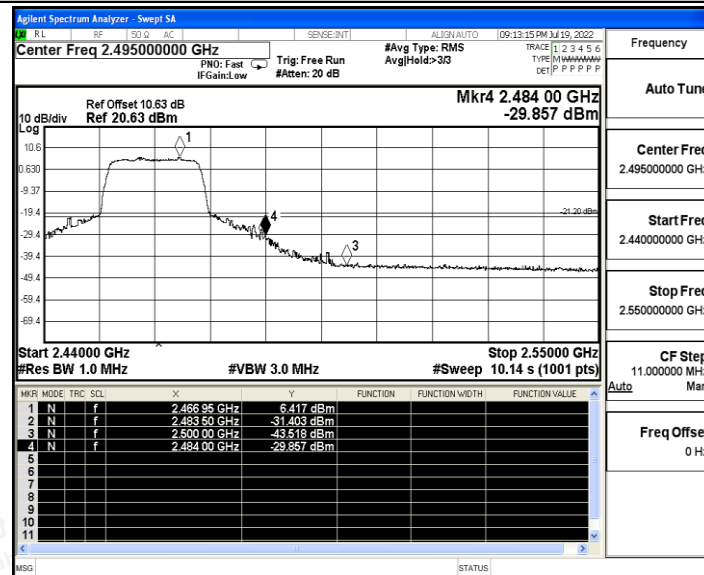
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11N20SISO_Ant_High_2462_AV



11N20SISO_Ant_High_2462_Peak



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