



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: POS Terminal

Test Model: P1000

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





C.1 6dB Bandwidth

Test Result

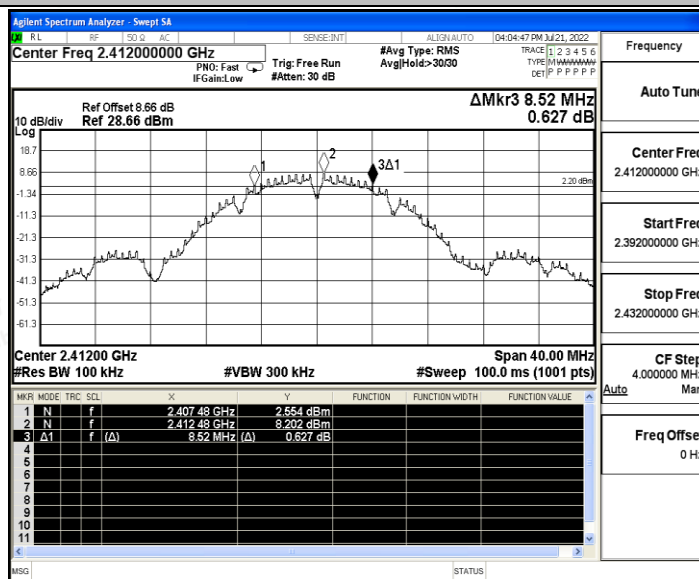
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.520	2407.480	2416.000	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	9.000	2458.000	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	15.680	2454.480	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
		2437	16.520	2428.240	2444.760	0.5	PASS
		2462	16.360	2454.440	2470.800	0.5	PASS



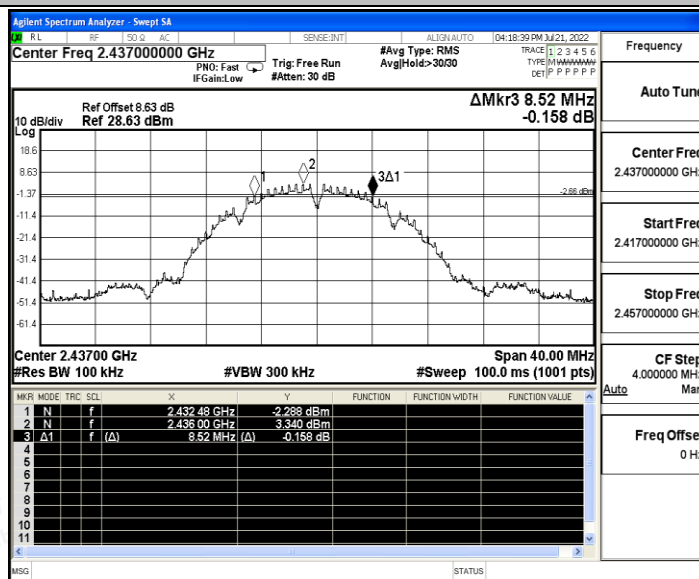


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

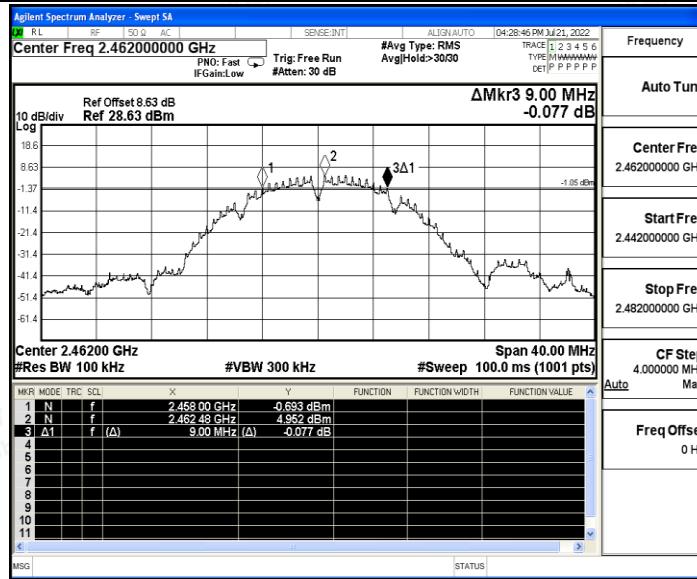


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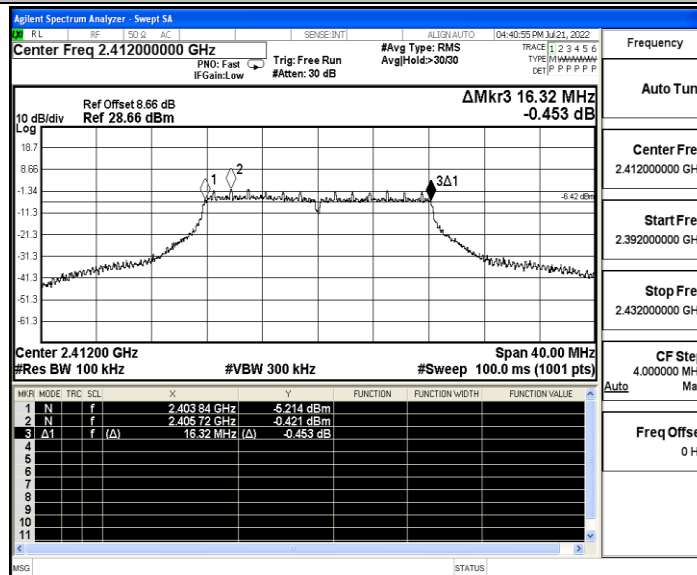
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

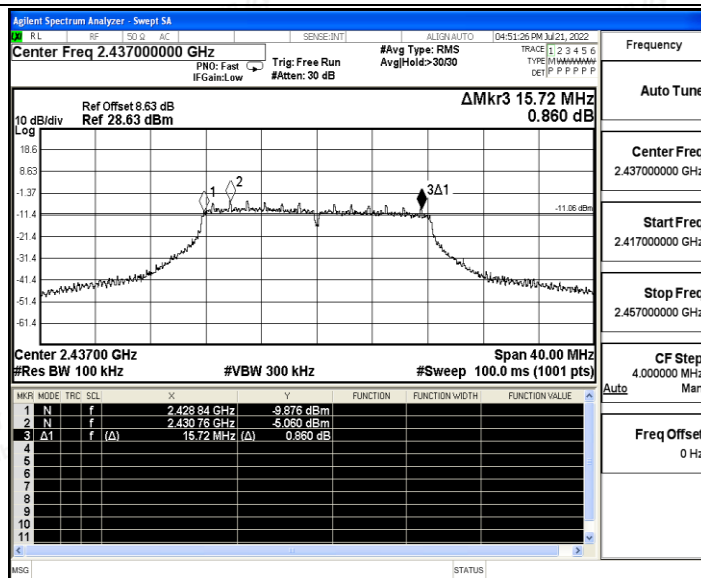


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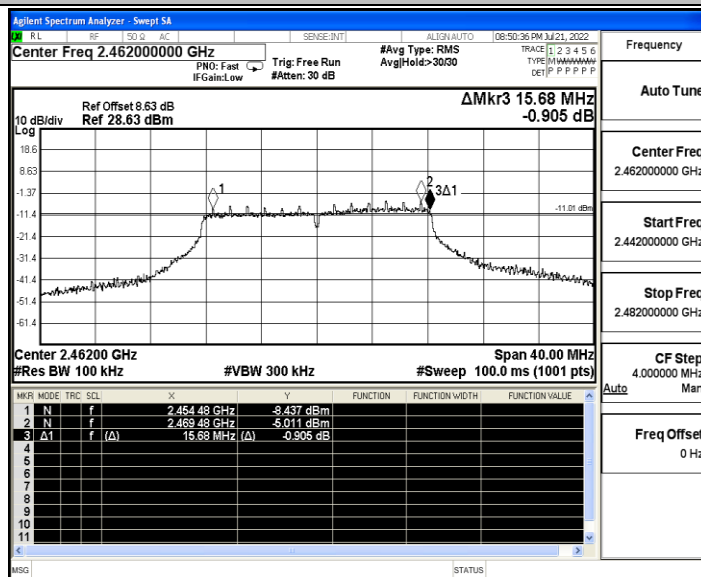
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

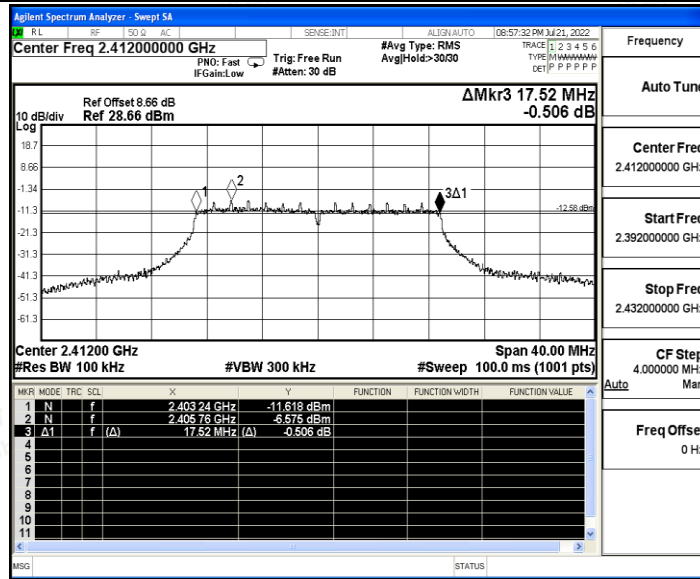


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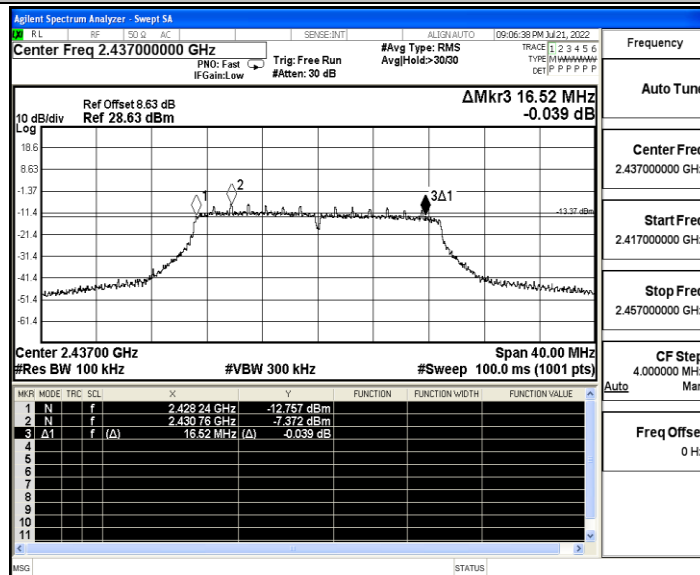
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

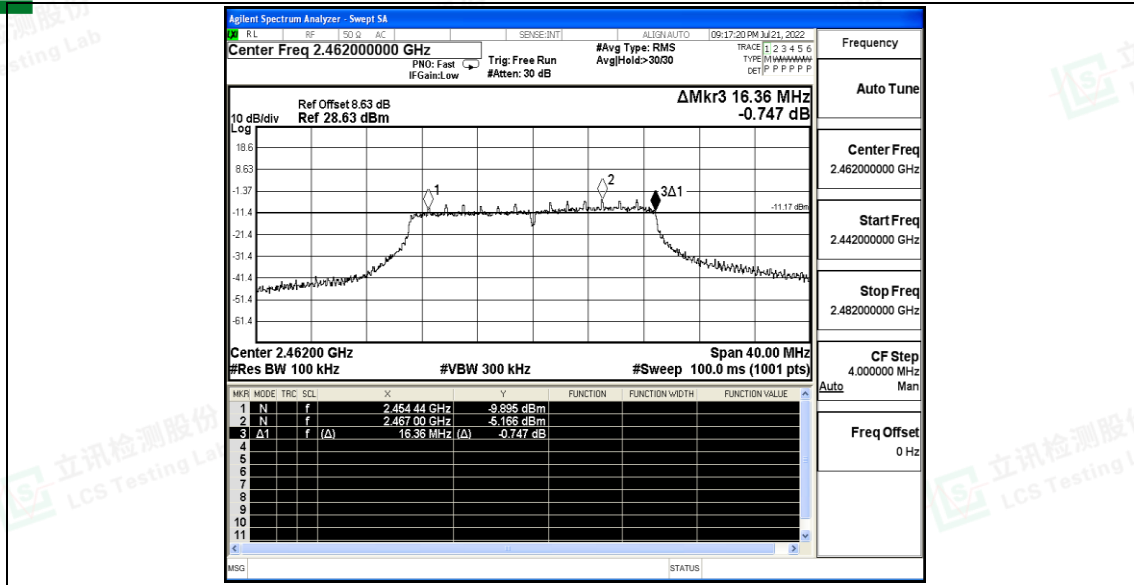


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.05	≤30.00	PASS
		2437	15.33	≤30.00	PASS
		2462	15.38	≤30.00	PASS
11G	Ant1	2412	14.39	≤30.00	PASS
		2437	14.45	≤30.00	PASS
		2462	13.19	≤30.00	PASS
11N20SISO	Ant1	2412	12.35	≤30.00	PASS
		2437	11.25	≤30.00	PASS
		2462	13.05	≤30.00	PASS





C.3 Maximum power spectral density

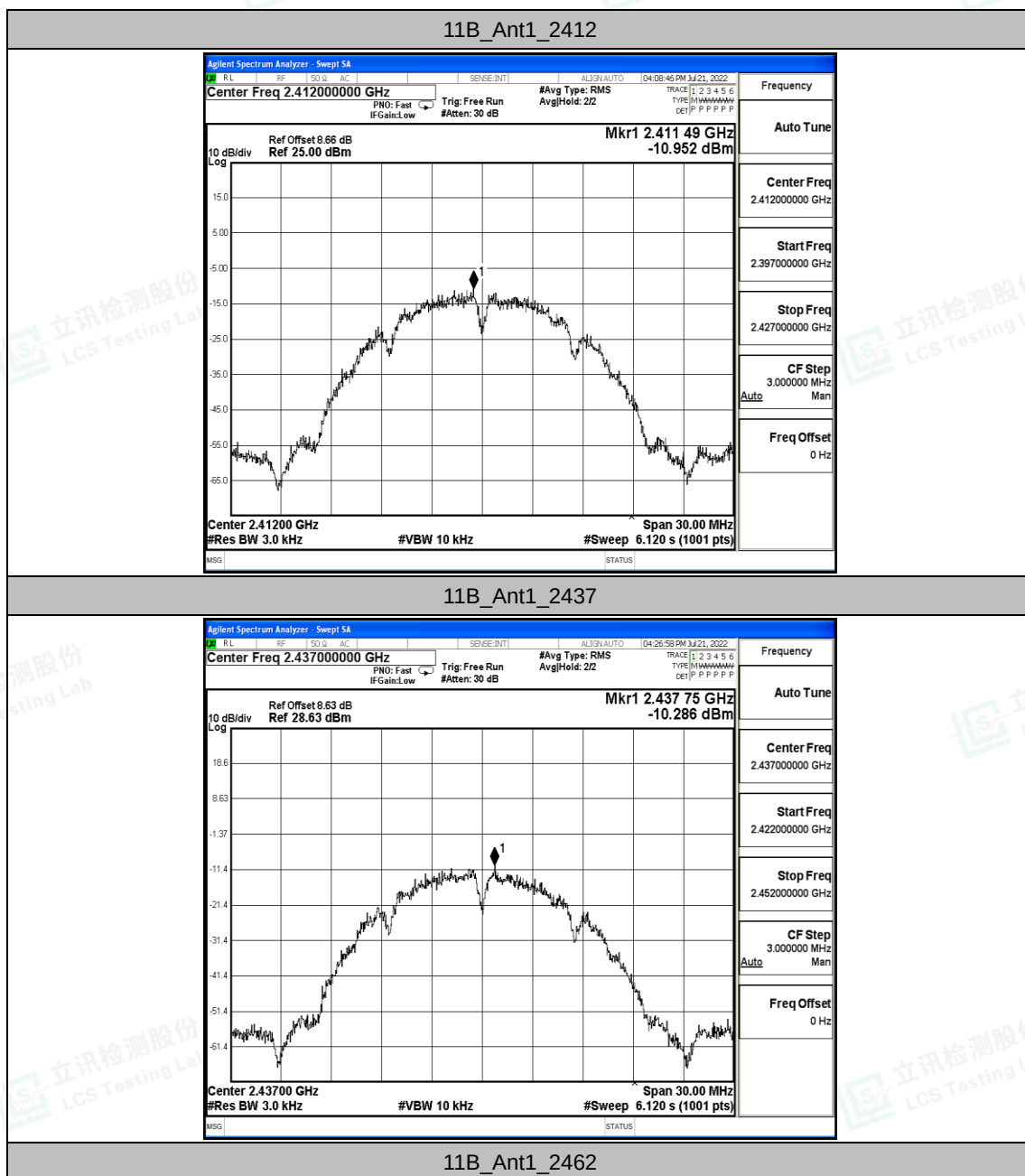
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.95	≤8.00	PASS
		2437	-10.29	≤8.00	PASS
		2462	-11.08	≤8.00	PASS
11G	Ant1	2412	-19.42	≤8.00	PASS
		2437	-18.88	≤8.00	PASS
		2462	-19.63	≤8.00	PASS
11N20SISO	Ant1	2412	-20.36	≤8.00	PASS
		2437	-21.41	≤8.00	PASS
		2462	-17.58	≤8.00	PASS





Test Graphs

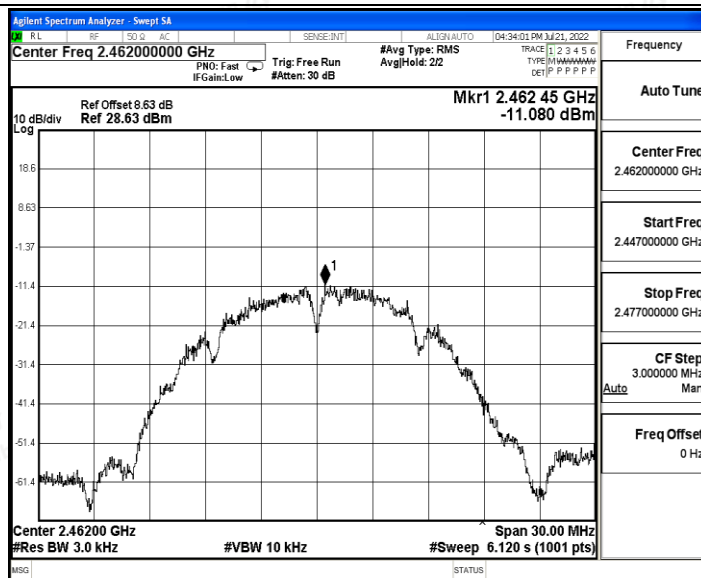


Shenzhen LCS Compliance Testing Laboratory Ltd.

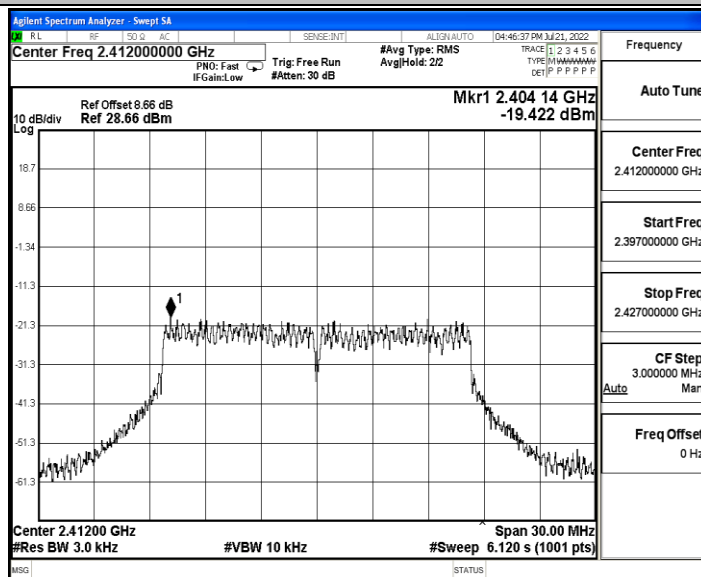
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11G_Ant1_2412



11G_Ant1_2437

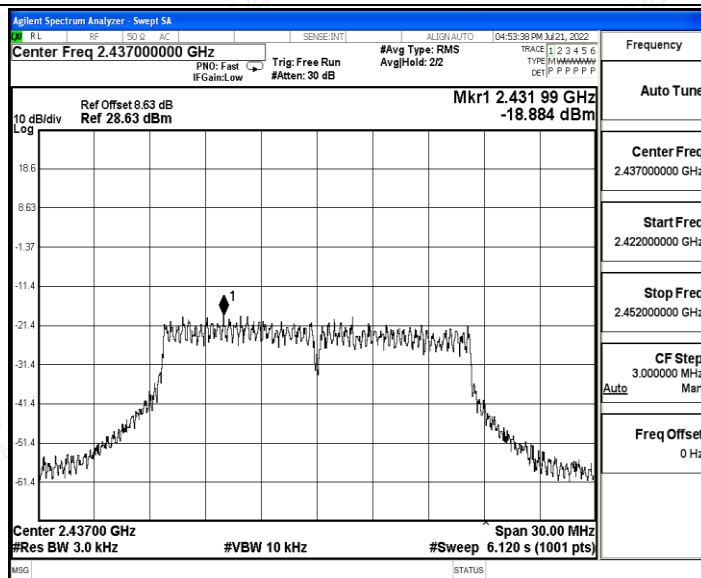


Shenzhen LCS Compliance Testing Laboratory Ltd.

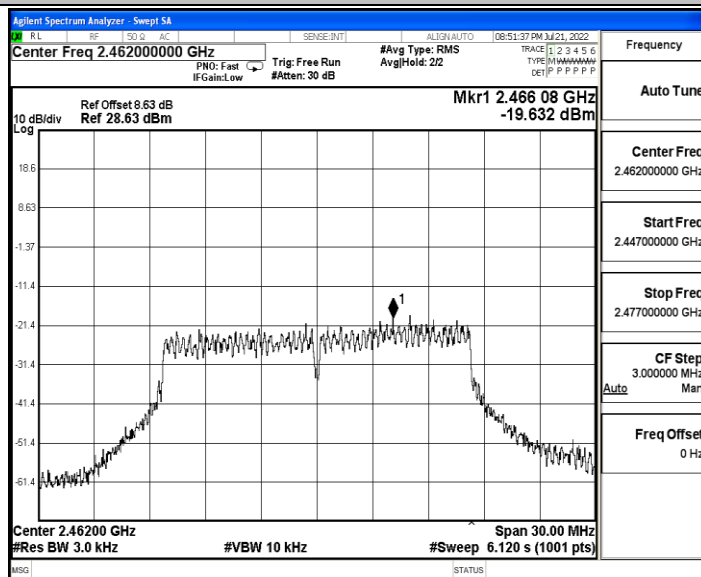
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11G_Ant1_2462



11N20SISO_Ant1_2412

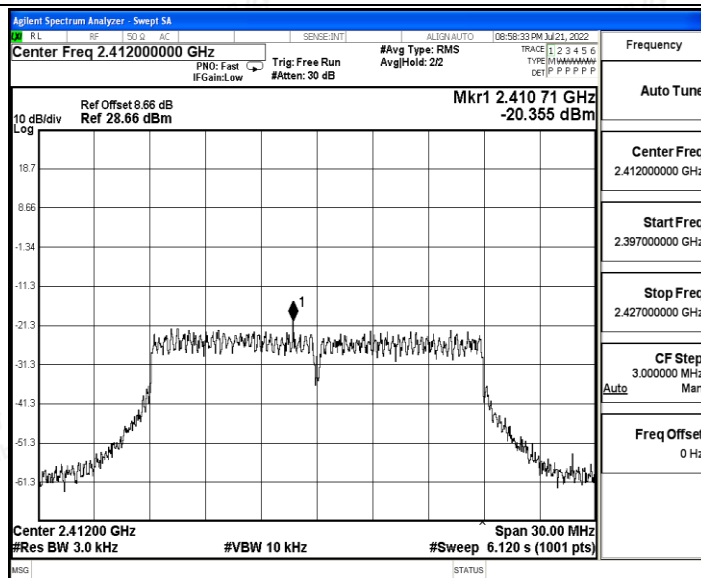


Shenzhen LCS Compliance Testing Laboratory Ltd.

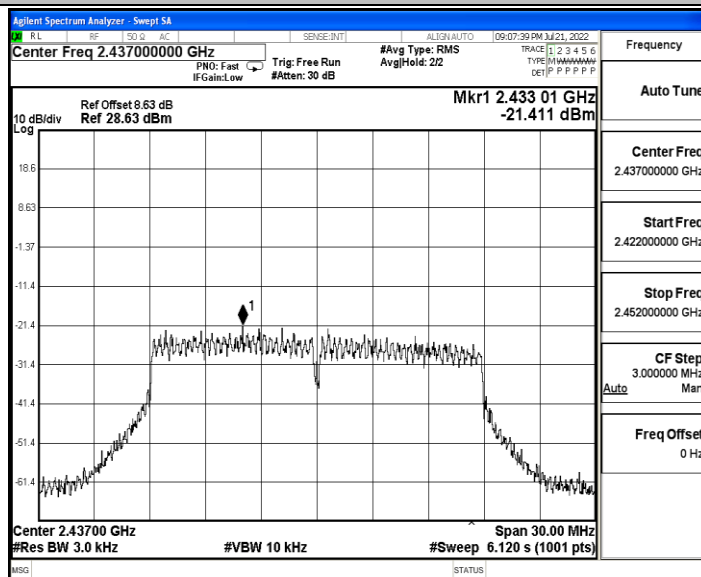
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

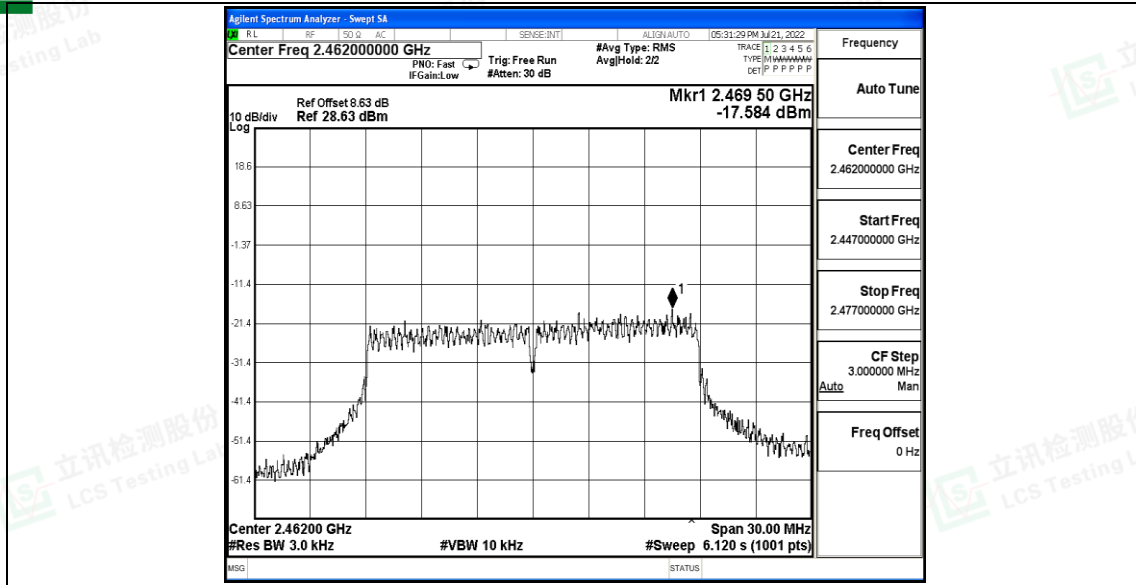


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C.4 Band edge measurements

Test Result

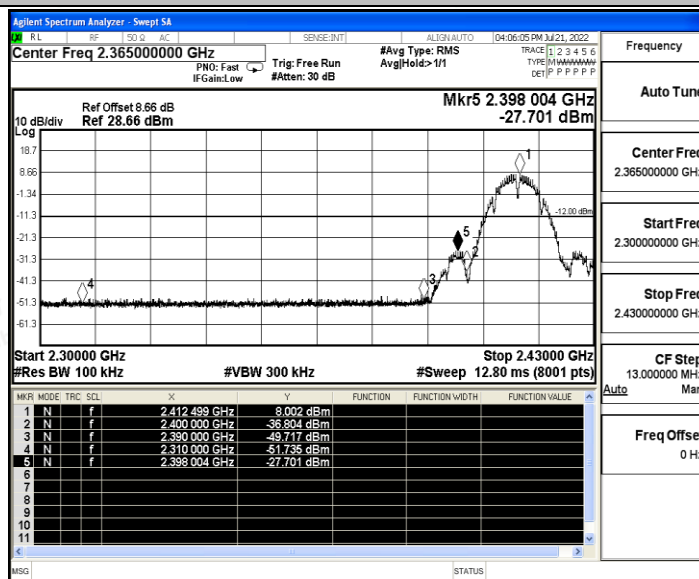
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.00	-27.7	≤ -12	PASS
		High	2462	4.02	-47.91	≤ -15.99	PASS
11G	Ant1	Low	2412	-4.21	-36.6	≤ -24.21	PASS
		High	2462	-5.13	-44.53	≤ -25.13	PASS
11N20SISO	Ant1	Low	2412	-6.46	-38.1	≤ -26.46	PASS
		High	2462	-5.05	-42.3	≤ -25.05	PASS



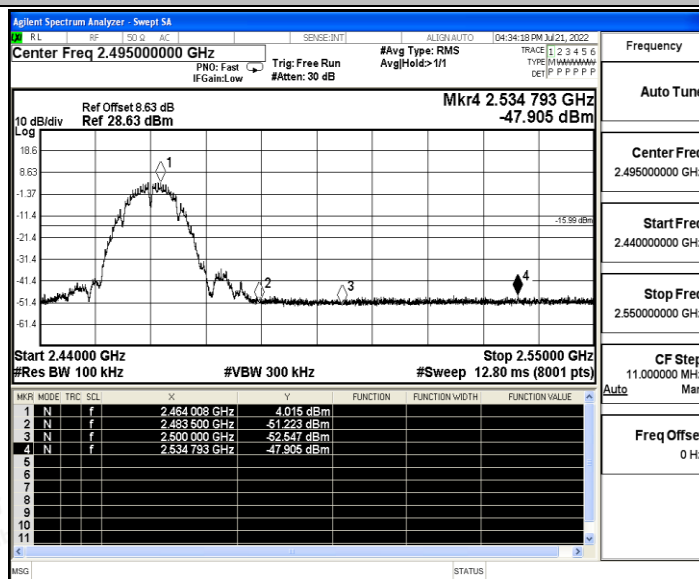


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

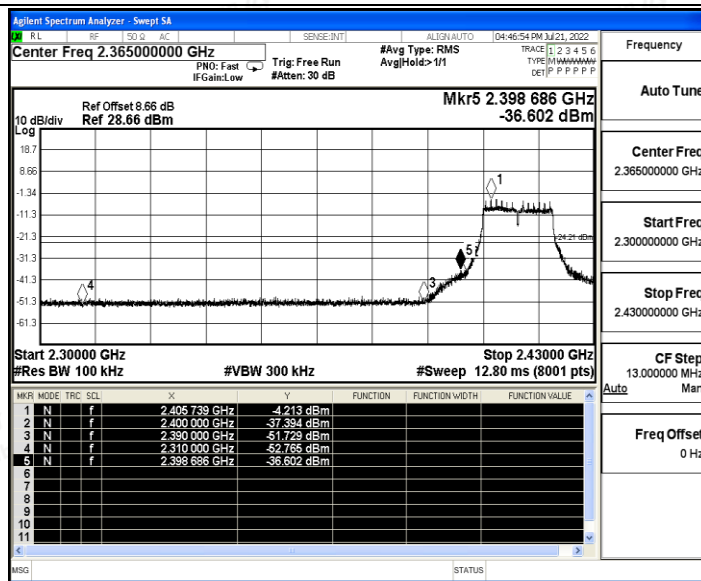


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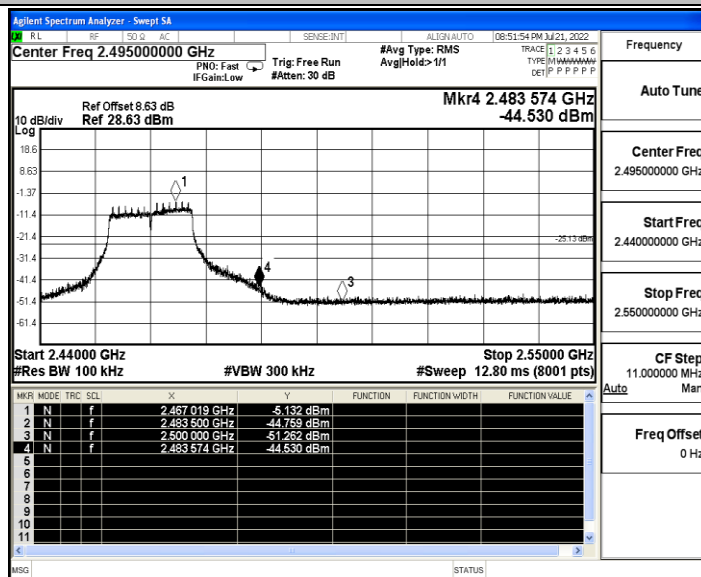
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

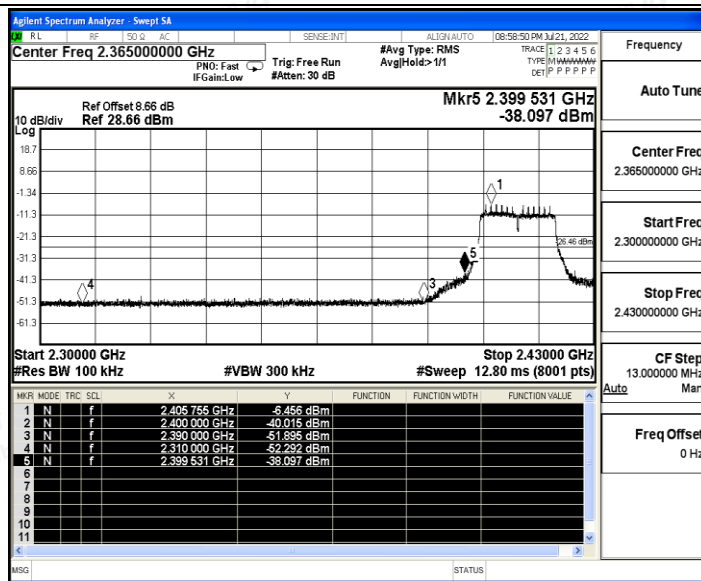


Shenzhen LCS Compliance Testing Laboratory Ltd.

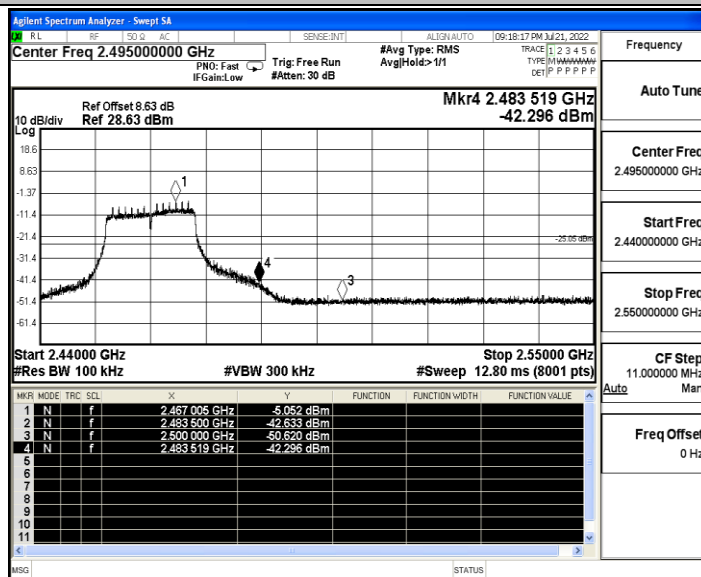
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11N20SISO_Ant1_High_2462



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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2437	Reference	3.33	3.33	---	PASS
			30~1000	3.33	-53.21	≤-16.67	PASS
			1000~26500	3.33	-45.67	≤-16.67	PASS
		2462	Reference	3.86	3.86	---	PASS
			30~1000	3.86	-59.85	≤-16.14	PASS
			1000~26500	3.86	-45.94	≤-16.14	PASS
11G	Ant1	2412	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-60.64	≤-24.41	PASS
			1000~26500	-4.41	-46.48	≤-24.41	PASS
		2437	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-44.84	≤-24.08	PASS
			1000~26500	-4.08	-45.76	≤-24.08	PASS
		2462	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-60.72	≤-24.98	PASS
			1000~26500	-4.98	-45.7	≤-24.98	PASS
11N20SISO	Ant1	2412	Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-60.47	≤-26.58	PASS
			1000~26500	-6.58	-46.29	≤-26.58	PASS
		2437	Reference	-7.25	-7.25	---	PASS
			30~1000	-7.25	-49.24	≤-27.25	PASS
			1000~26500	-7.25	-46.45	≤-27.25	PASS
		2462	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-60.29	≤-24.98	PASS
			1000~26500	-4.98	-43.19	≤-24.98	PASS



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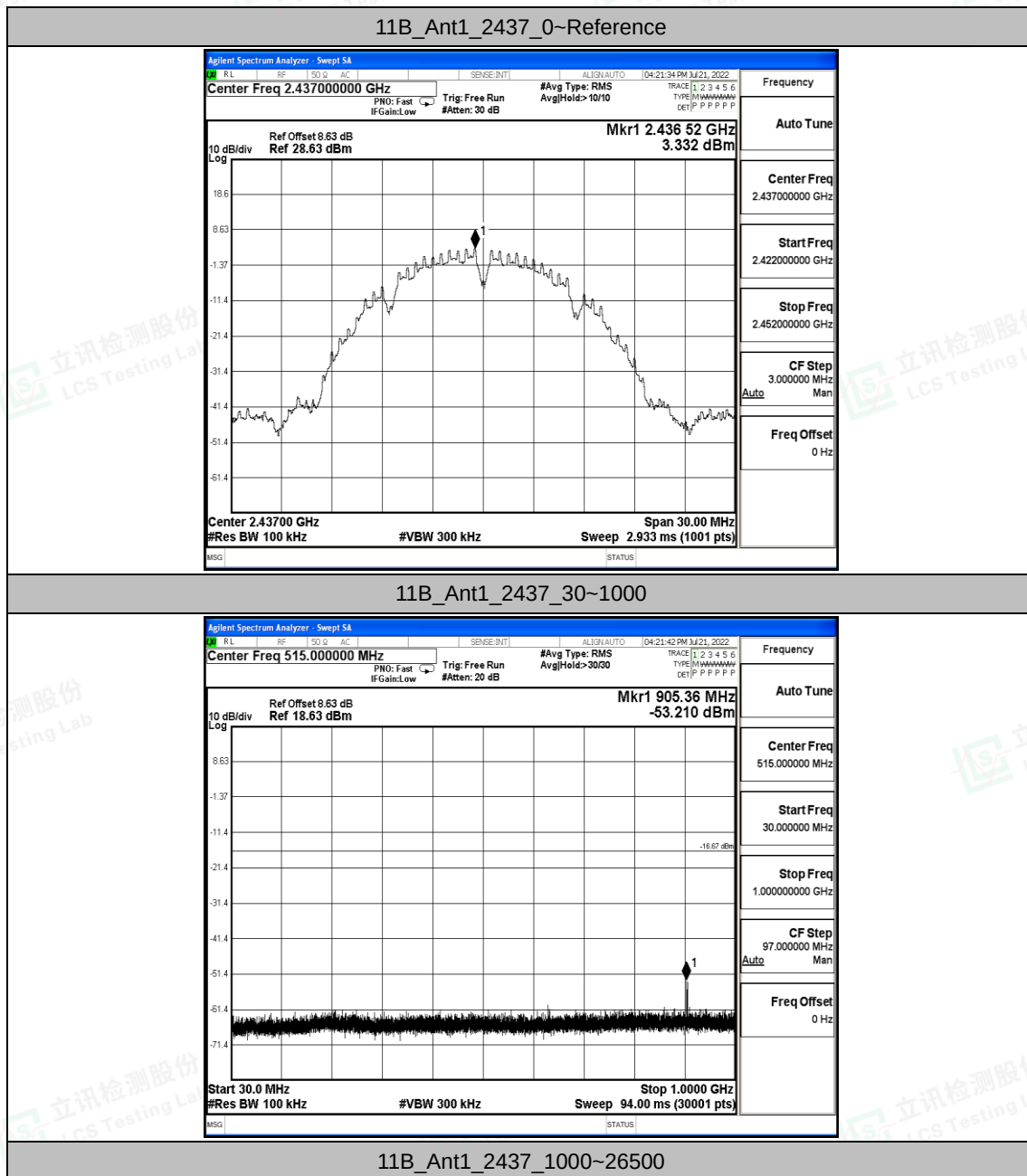
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Test Graphs

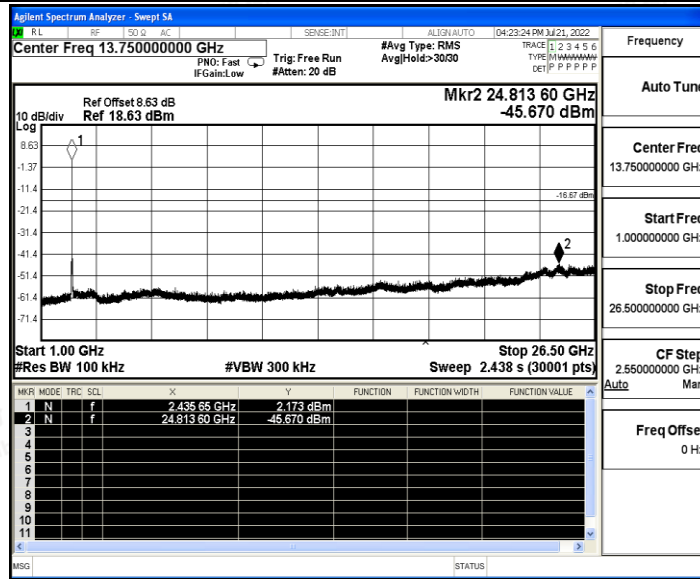


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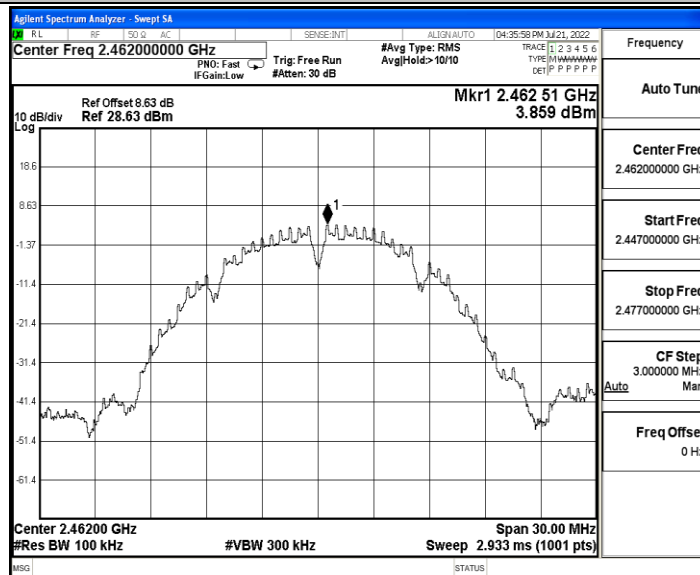
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11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

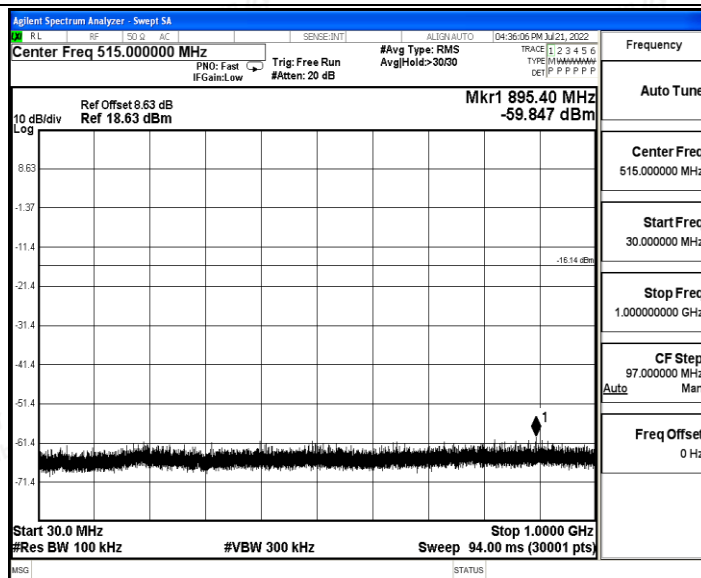


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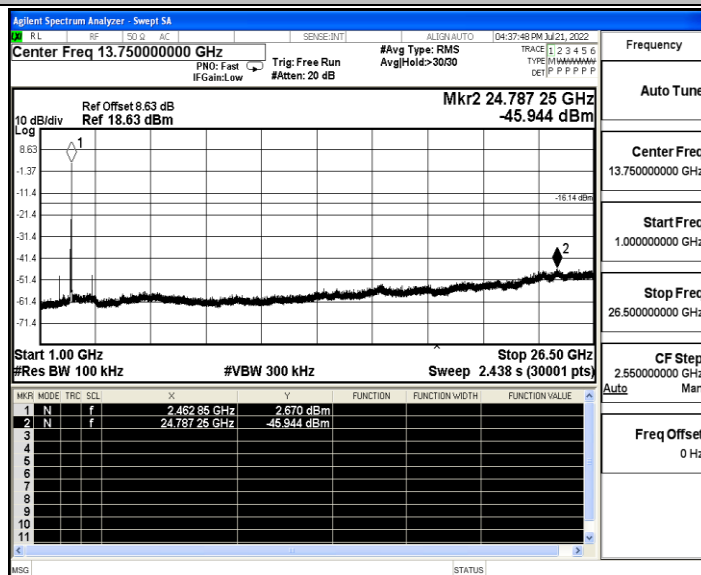
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

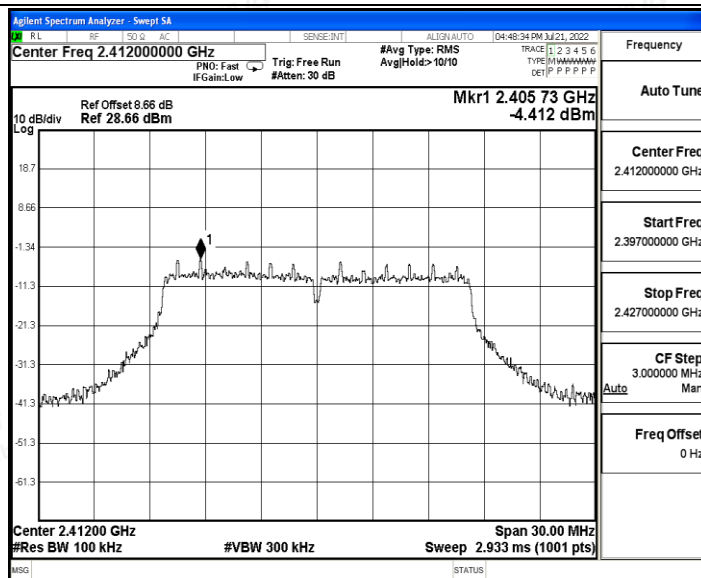


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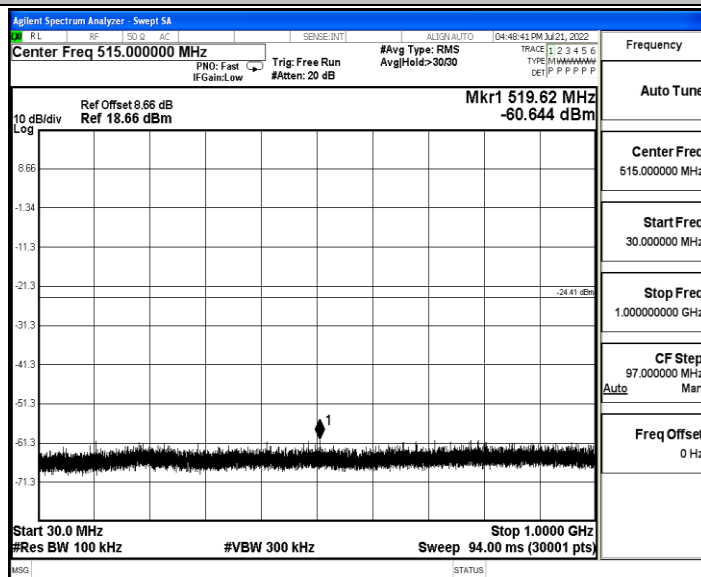
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500

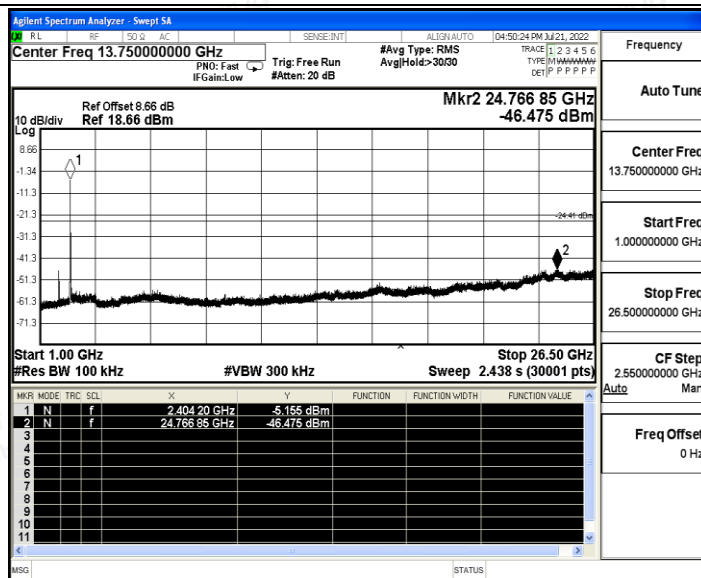


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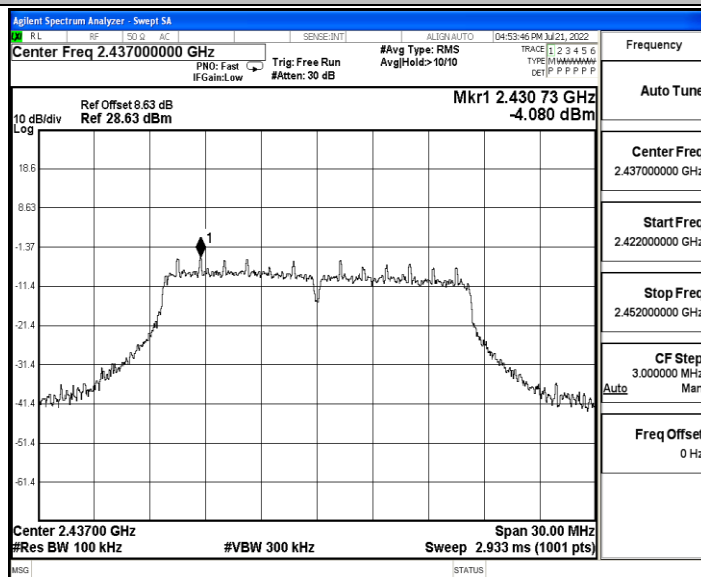
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11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

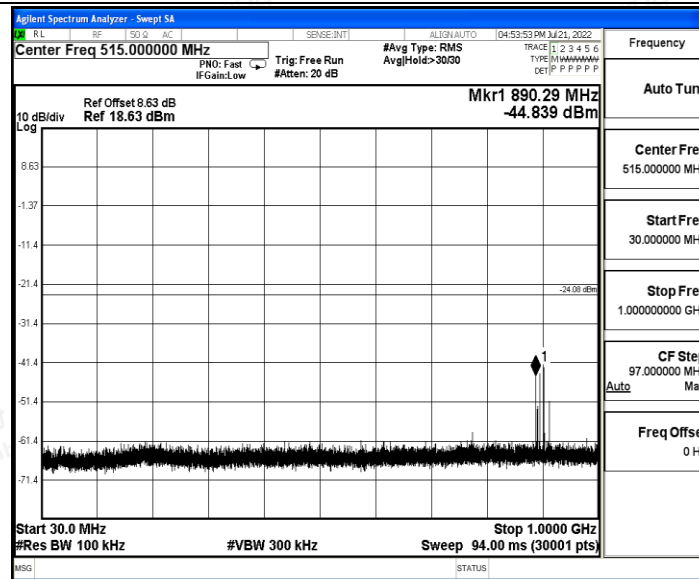


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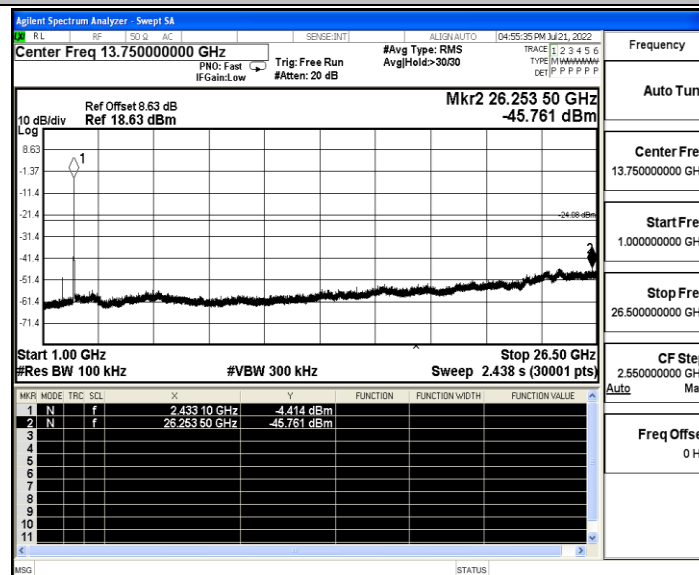
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11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference

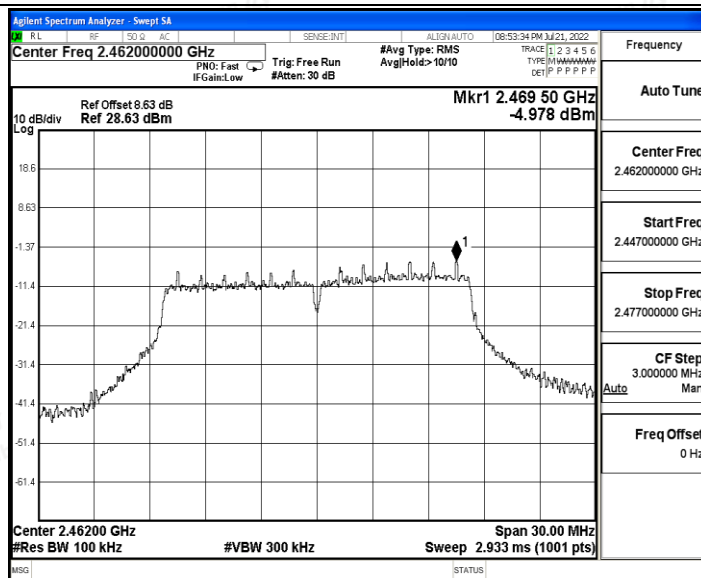


Shenzhen LCS Compliance Testing Laboratory Ltd.

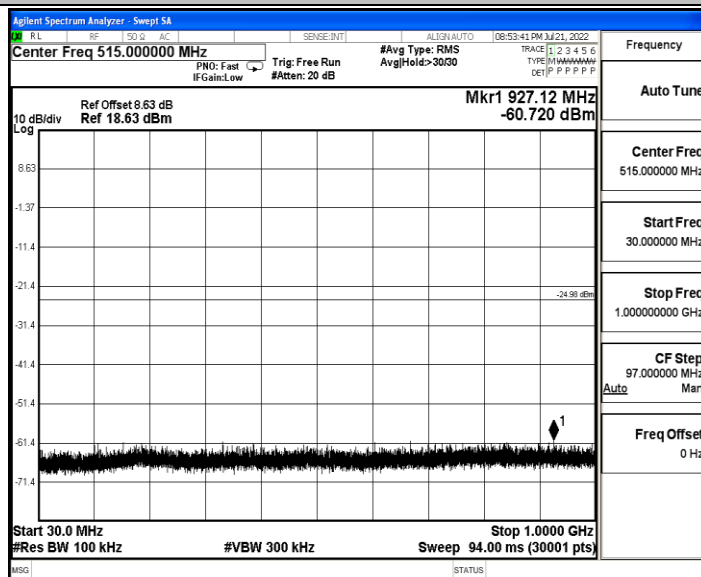
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11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

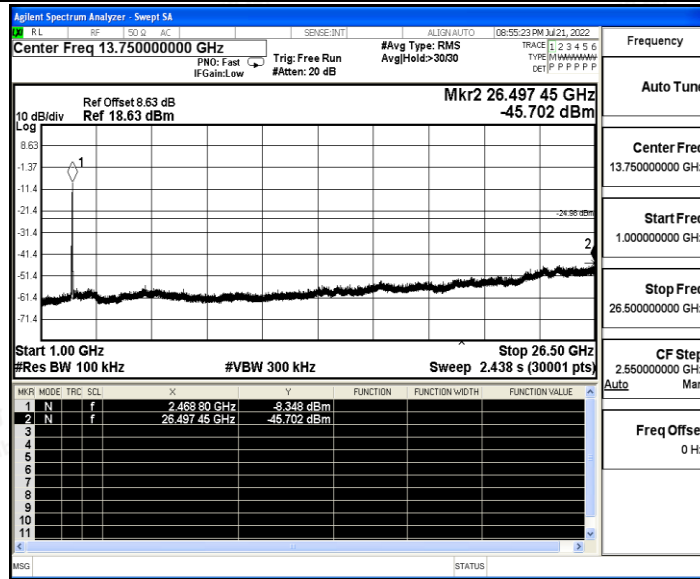


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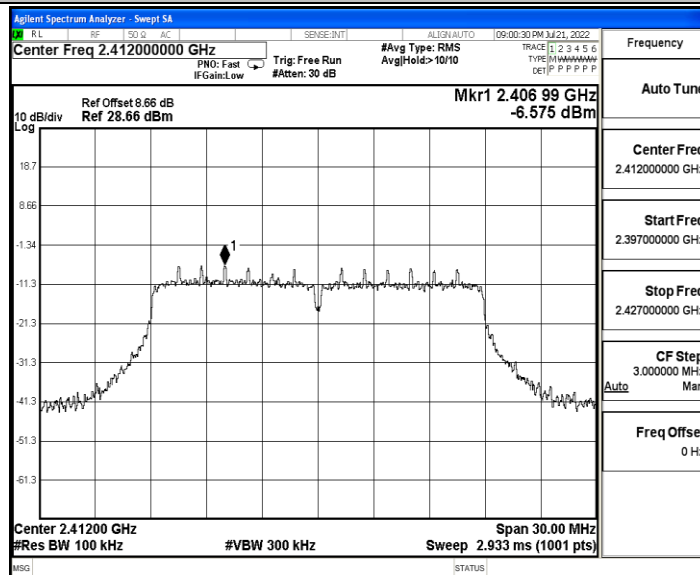
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

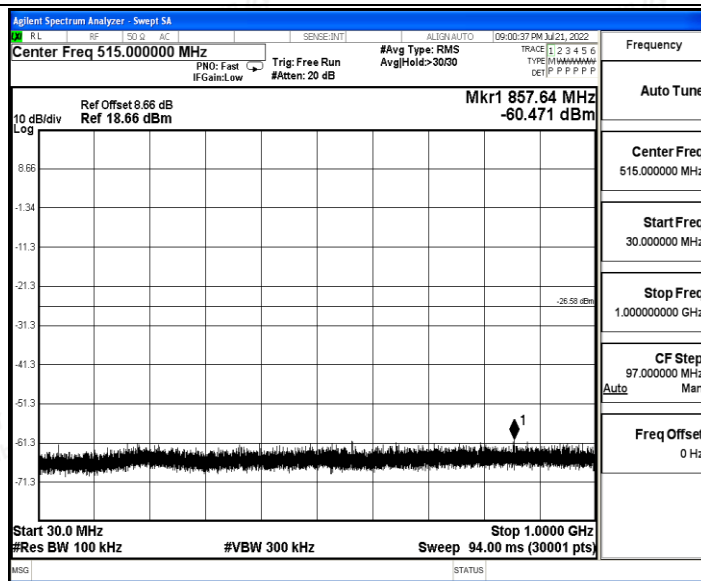


Shenzhen LCS Compliance Testing Laboratory Ltd.

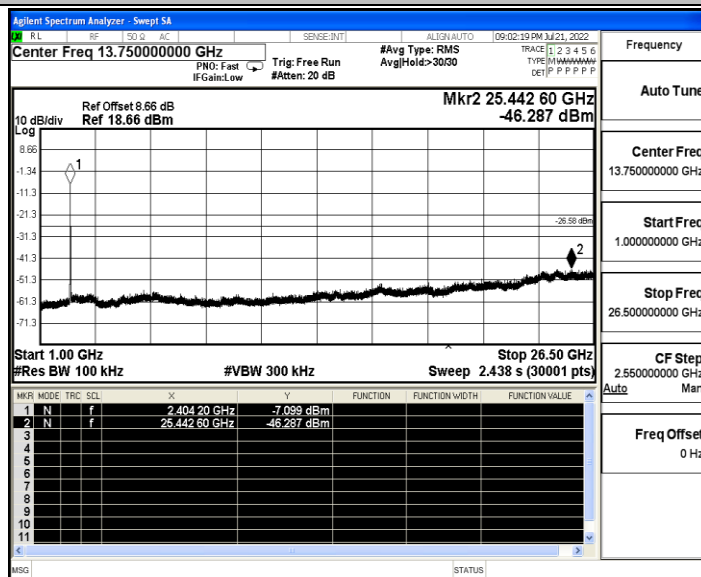
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference

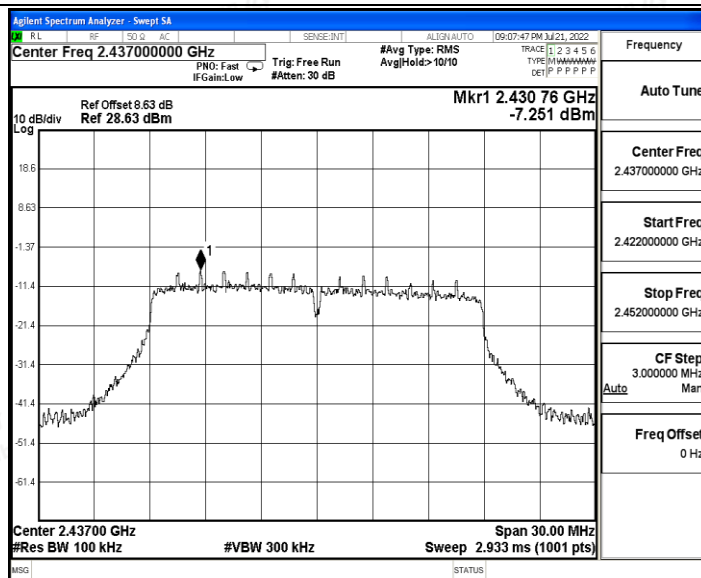


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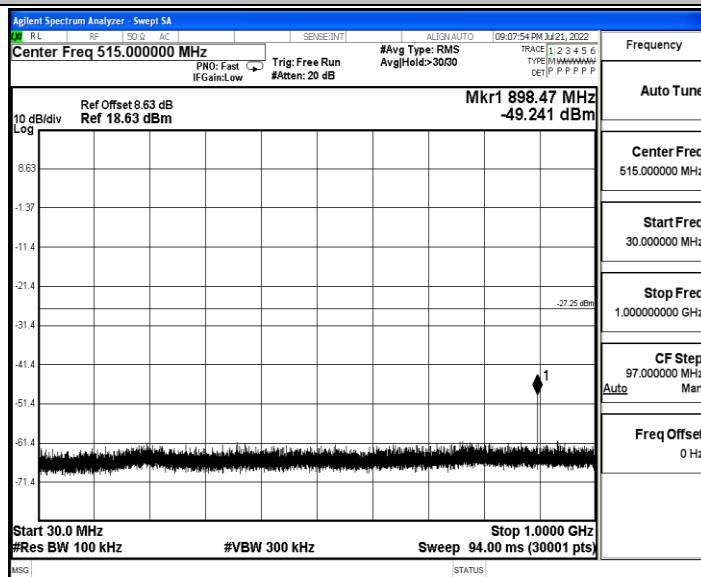
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11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

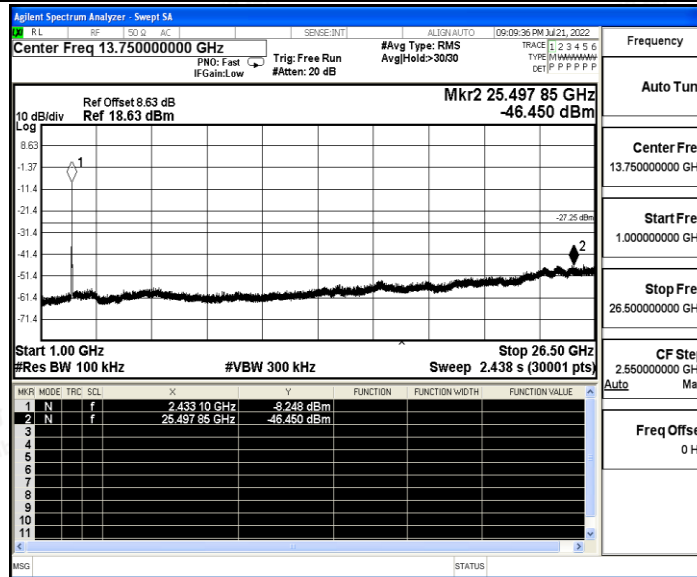


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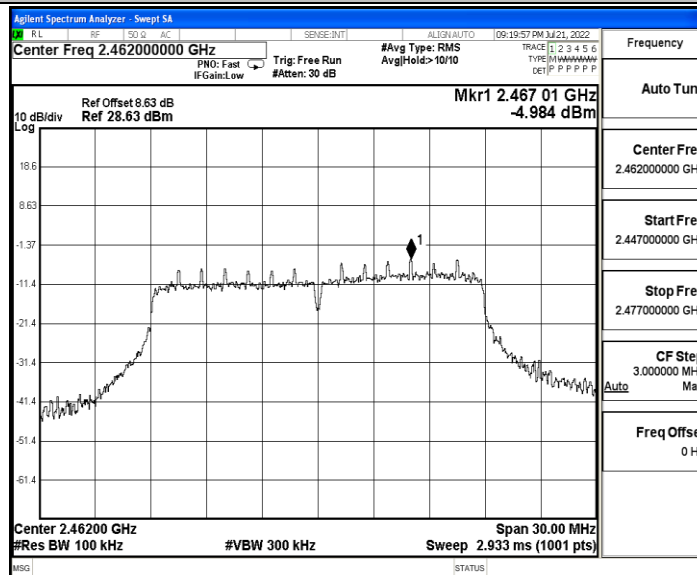
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11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000

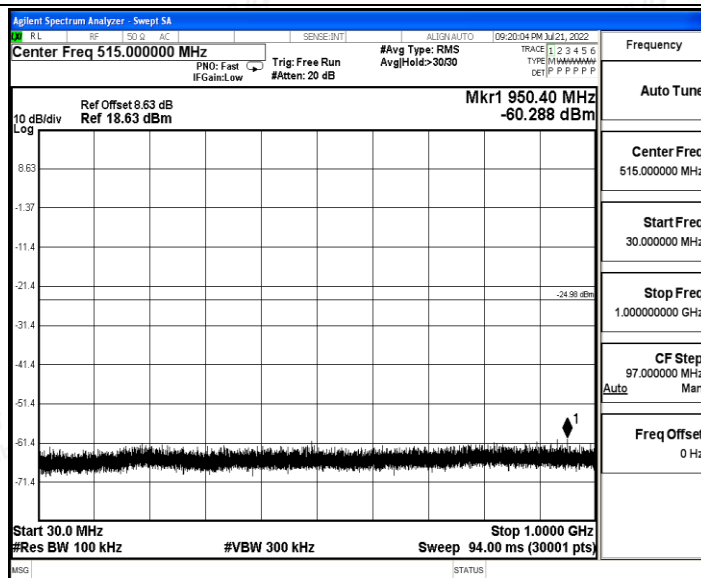


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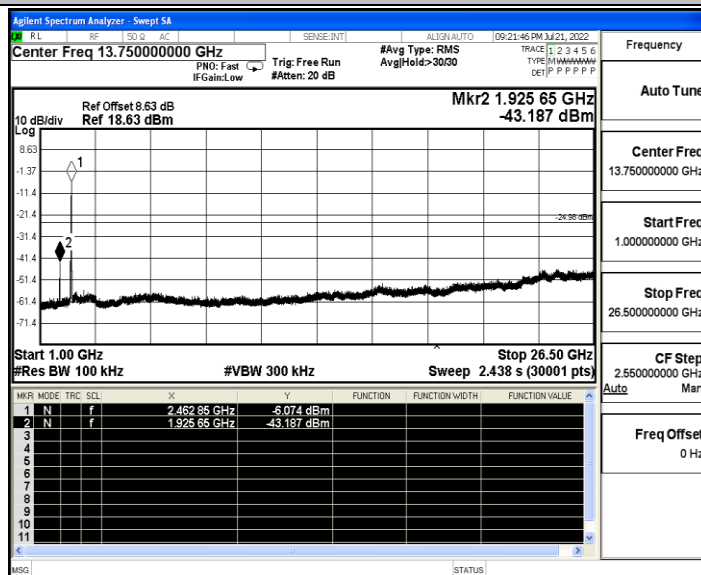
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11N20SISO_Ant1_2462_1000~26500



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C.6 Duty Cycle

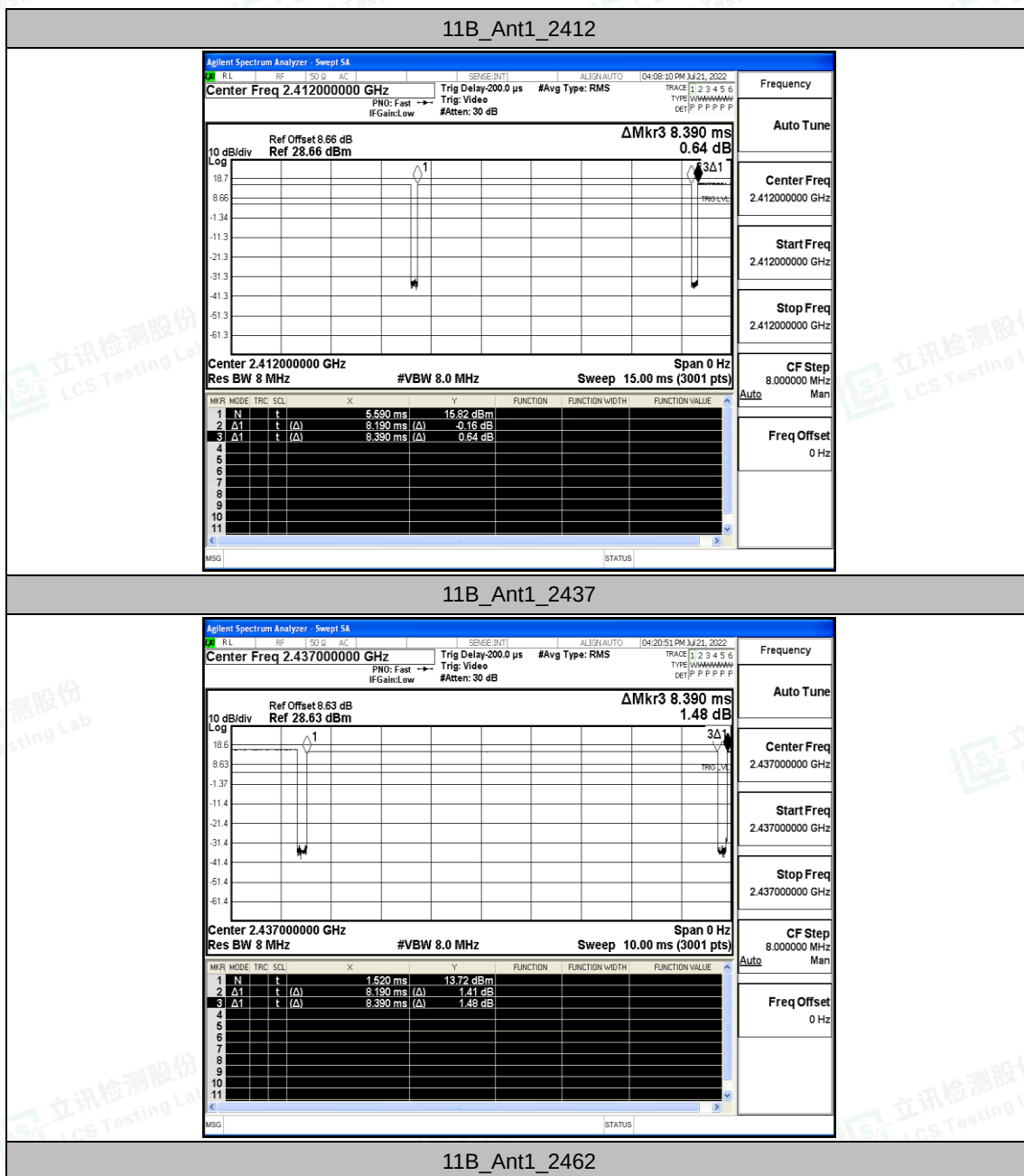
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T	Verdict
11B	Ant1	2412	8.19	8.39	97.62	0.12	---
		2437	8.19	8.39	97.62	0.12	---
		2462	8.19	8.39	97.62	0.12	---
11G	Ant1	2412	1.36	1.56	87.18	0.74	---
		2437	1.36	1.56	87.18	0.74	---
		2462	1.36	1.56	87.18	0.74	---
11N20SISO	Ant1	2412	1.28	1.47	87.07	0.78	---
		2437	1.27	1.47	86.39	0.79	---
		2462	1.28	1.47	87.07	0.78	---





Test Graphs

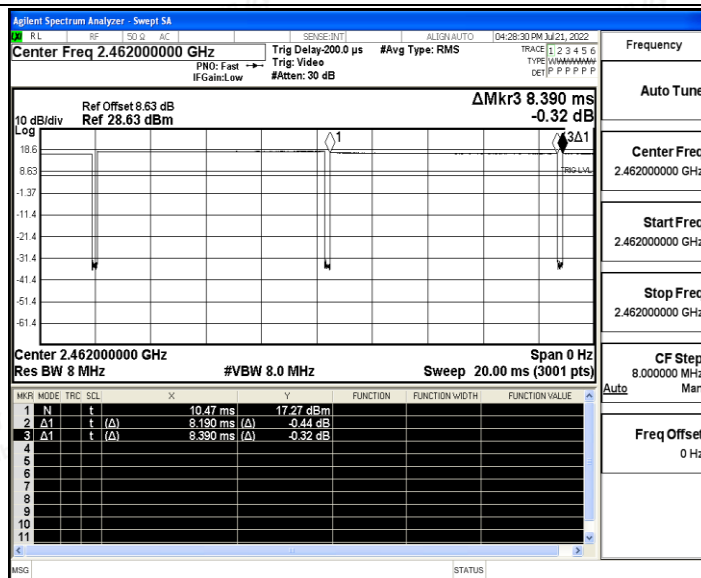


Shenzhen LCS Compliance Testing Laboratory Ltd.

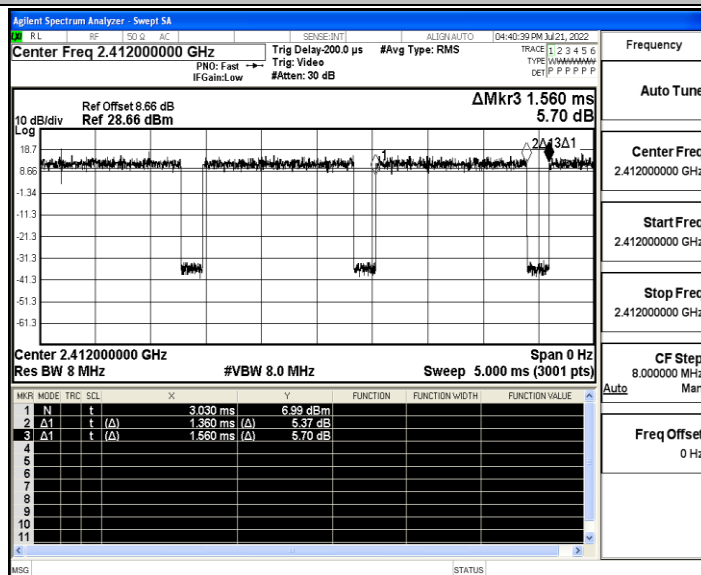
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11G_Ant1_2412



11G_Ant1_2437

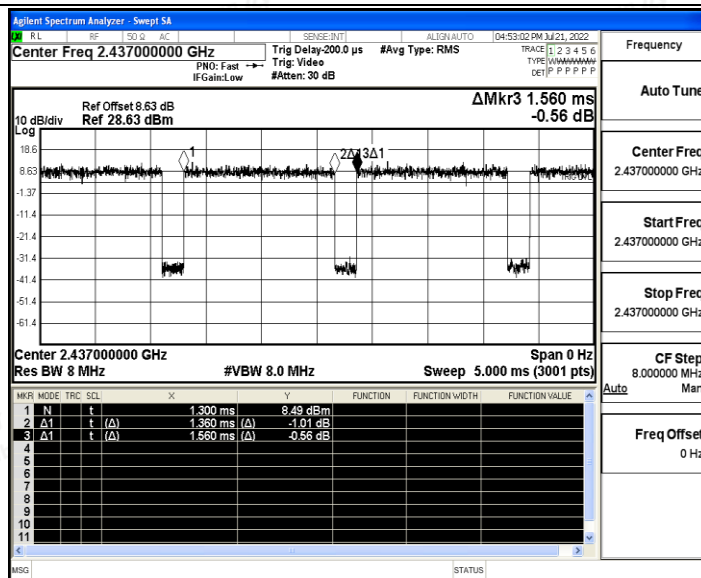


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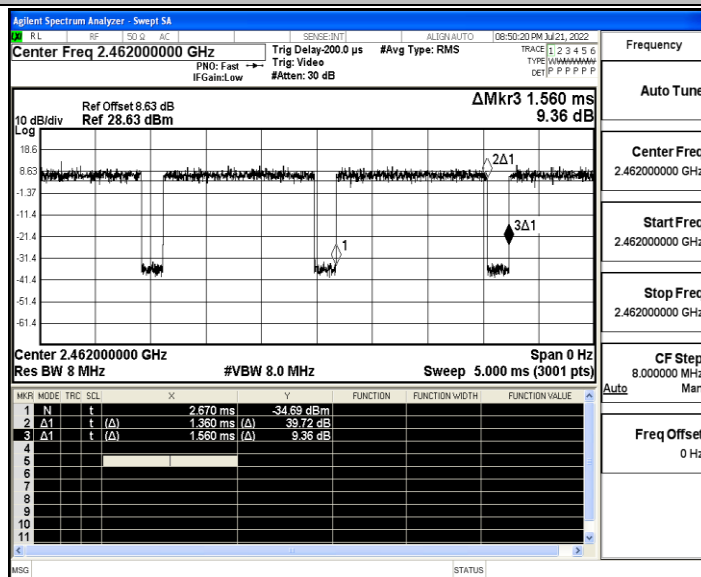
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11G_Ant1_2462



11N20SISO_Ant1_2412

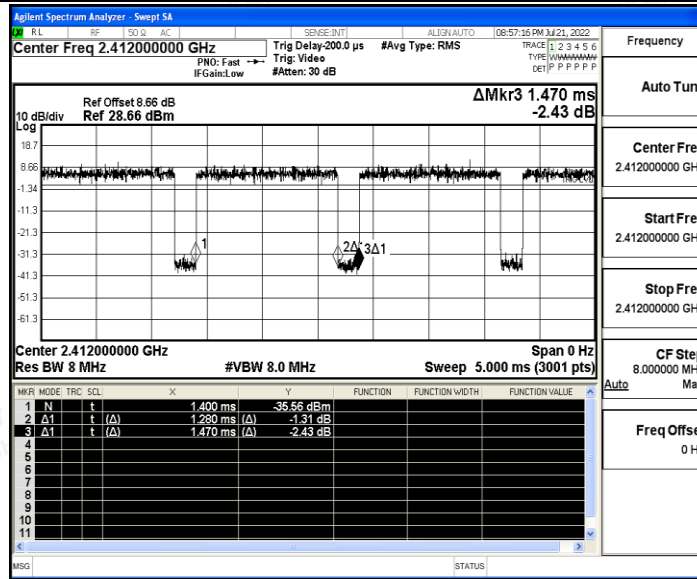


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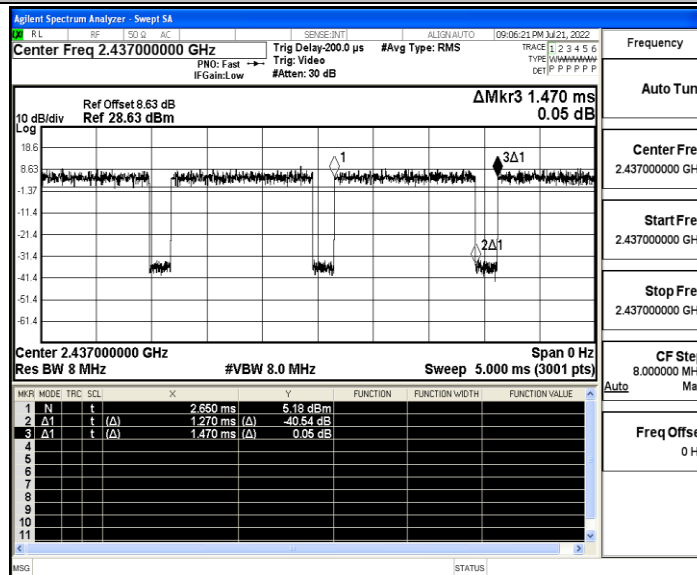
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

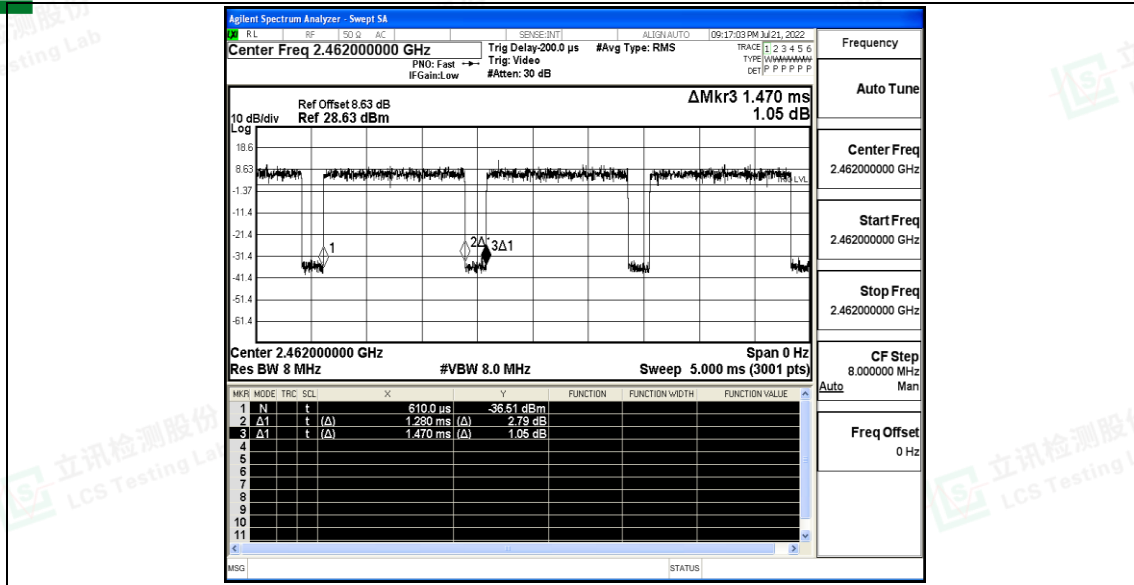


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C.7 Emissions in Restricted Band

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-58.7	≤-41.20	36.50	≤54	PASS
				AV	2389.440	-57.85	≤-41.20	37.35	≤54	PASS
				AV	2390.000	-58	≤-41.20	37.20	≤54	PASS
				Peak	2310.000	-48.24	≤-21.20	46.96	≤74	PASS
				Peak	2388.920	-45.93	≤-21.20	49.27	≤74	PASS
				Peak	2390.000	-47.51	≤-21.20	47.69	≤74	PASS
		High	2462	AV	2483.500	-52.93	≤-41.20	42.27	≤54	PASS
				AV	2487.520	-50.1	≤-41.20	45.10	≤54	PASS
				AV	2500.000	-57.83	≤-41.20	37.37	≤54	PASS
				Peak	2483.500	-42.44	≤-21.20	52.76	≤74	PASS
				Peak	2485.760	-25.03	≤-21.20	70.17	≤74	PASS
				Peak	2500.000	-47.7	≤-21.20	47.50	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-58.31	≤-41.20	36.89	≤54	PASS
				AV	2389.960	-53.56	≤-41.20	41.64	≤54	PASS
				AV	2390.000	-53.56	≤-41.20	41.64	≤54	PASS
				Peak	2310.000	-48.3	≤-21.20	46.90	≤74	PASS
				Peak	2389.960	-36.81	≤-21.20	58.39	≤74	PASS
				Peak	2390.000	-36.81	≤-21.20	58.39	≤74	PASS
		High	2462	AV	2483.500	-42.9	≤-41.20	52.30	≤54	PASS
				AV	2483.560	-43.25	≤-41.20	51.95	≤54	PASS
				AV	2500.000	-57.34	≤-41.20	37.86	≤54	PASS
				Peak	2483.500	-26.55	≤-21.20	68.65	≤74	PASS
				Peak	2483.670	-25.35	≤-21.20	69.85	≤74	PASS
				Peak	2500.000	-47.51	≤-21.20	47.69	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-58.42	≤-41.20	36.78	≤54	PASS
				AV	2389.830	-54.13	≤-41.20	41.07	≤54	PASS
				AV	2390.000	-54.25	≤-41.20	40.95	≤54	PASS
				Peak	2310.000	-48.02	≤-21.20	47.18	≤74	PASS
				Peak	2389.700	-36.05	≤-21.20	59.15	≤74	PASS
				Peak	2390.000	-36.53	≤-21.20	58.67	≤74	PASS
		High	2462	AV	2483.500	-45.05	≤-41.20	50.15	≤54	PASS
				AV	2483.560	-45.06	≤-41.20	50.14	≤54	PASS
				AV	2500.000	-57.47	≤-41.20	37.73	≤54	PASS
				Peak	2483.500	-28.71	≤-21.20	66.49	≤74	PASS
				Peak	2483.560	-27.94	≤-21.20	67.26	≤74	PASS
				Peak	2500.000	-45.68	≤-21.20	49.52	≤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.



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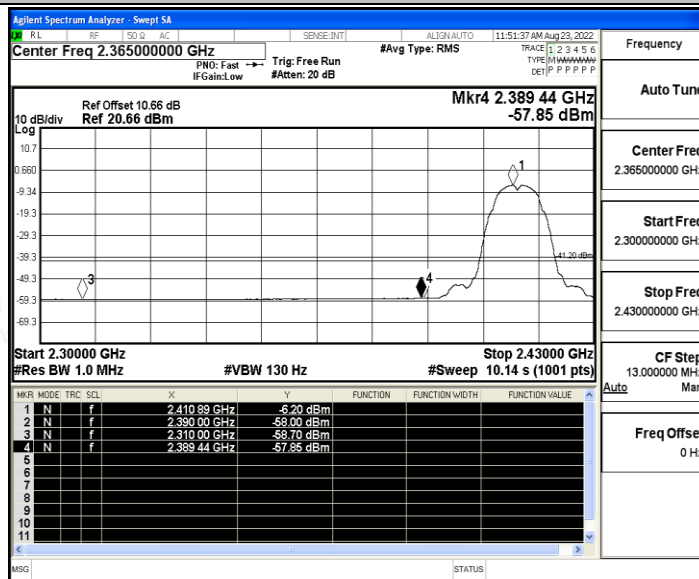
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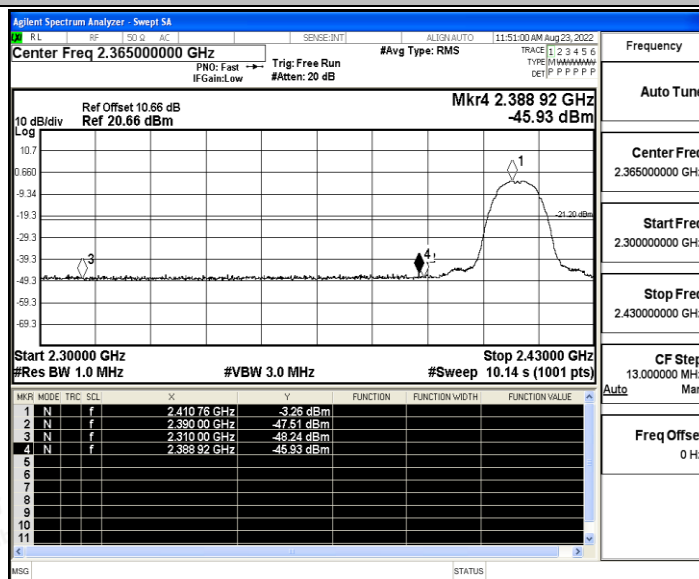


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

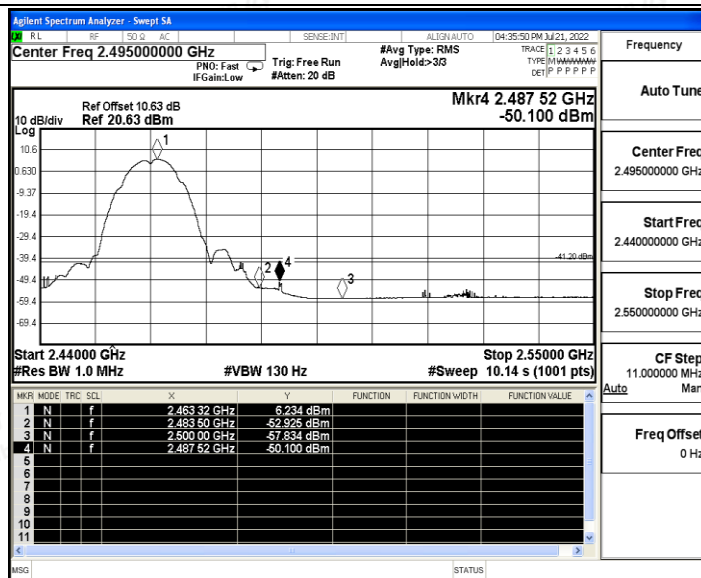


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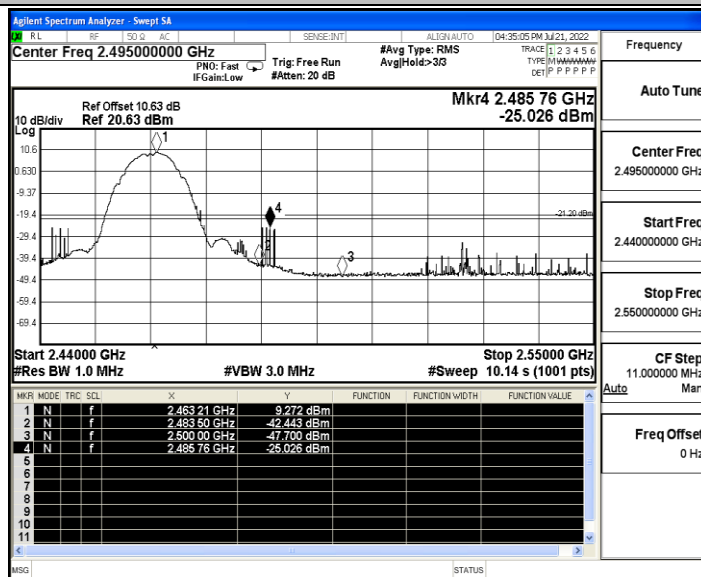
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

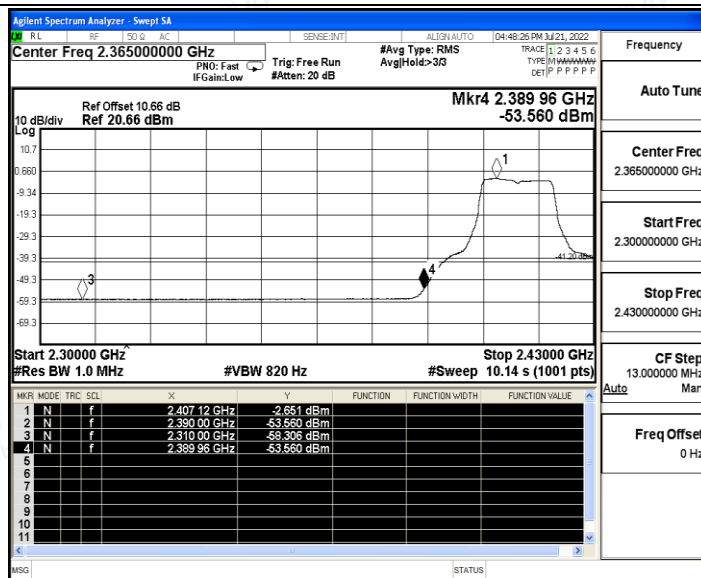


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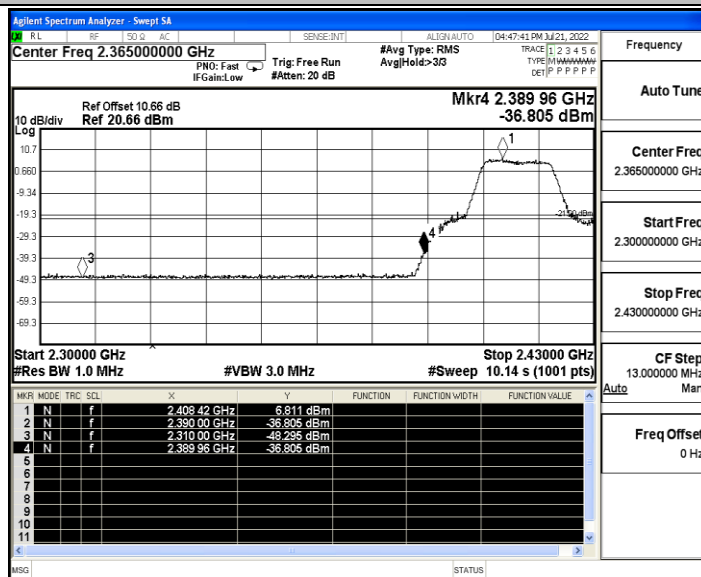
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

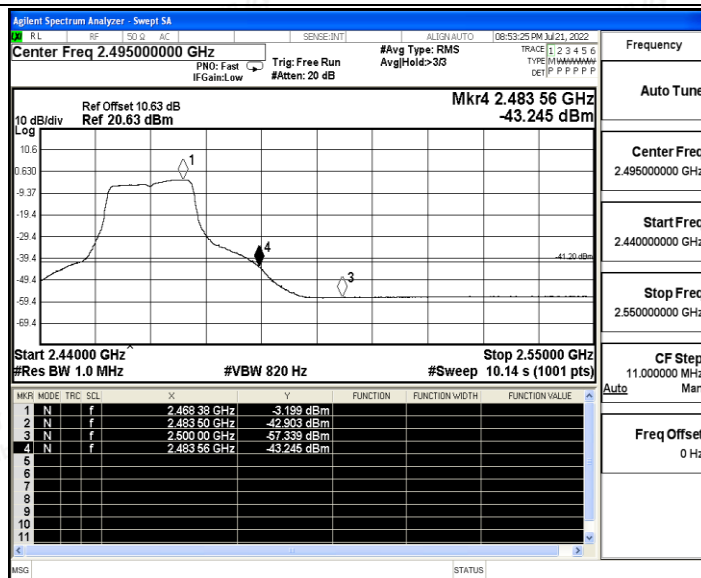


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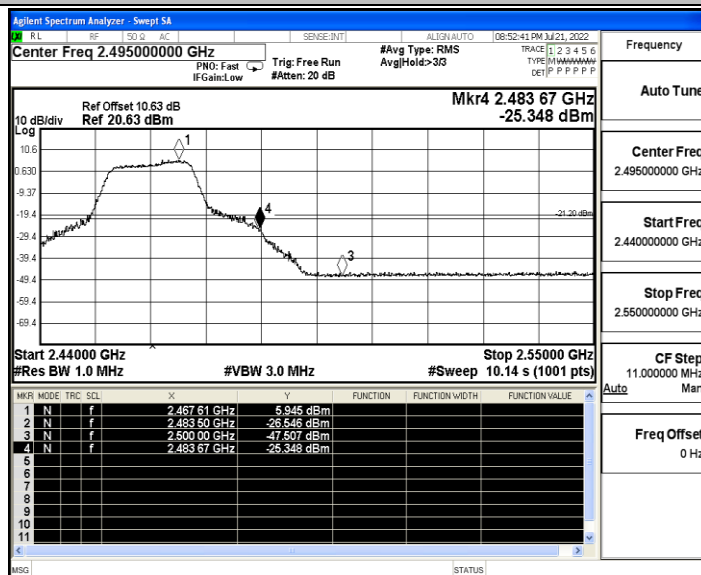
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

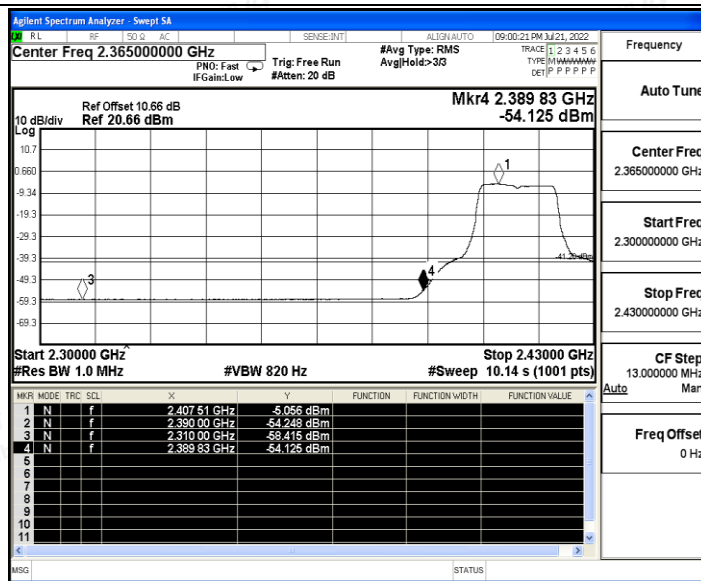


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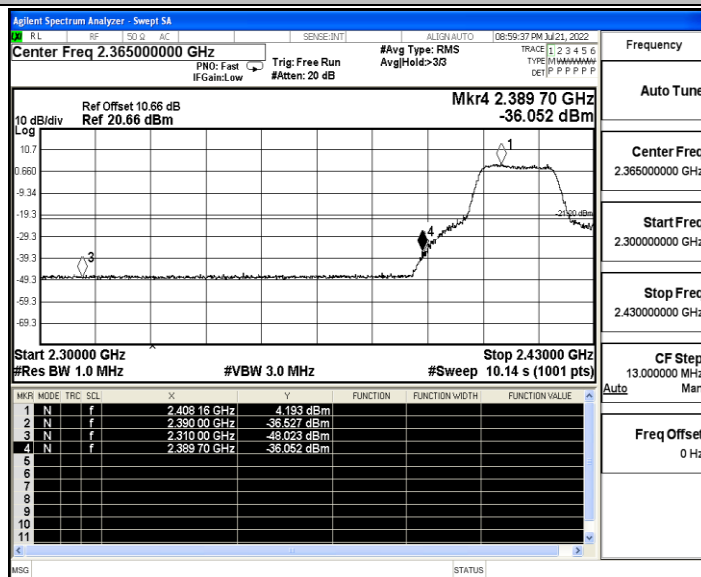
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

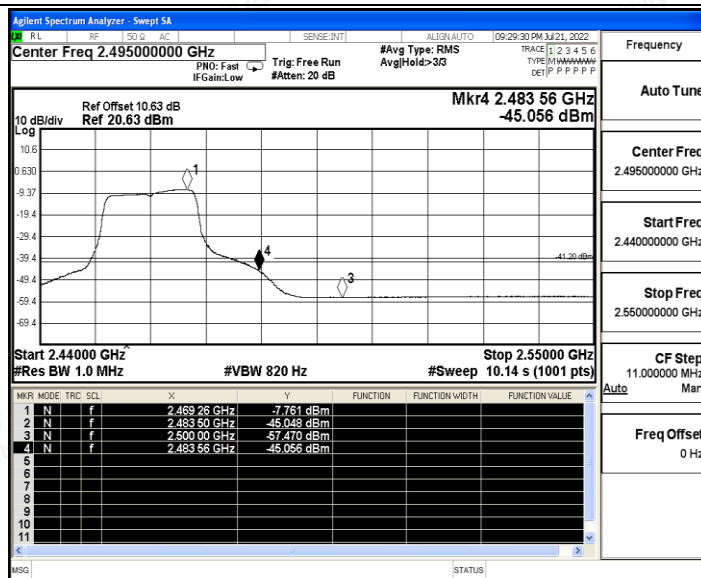


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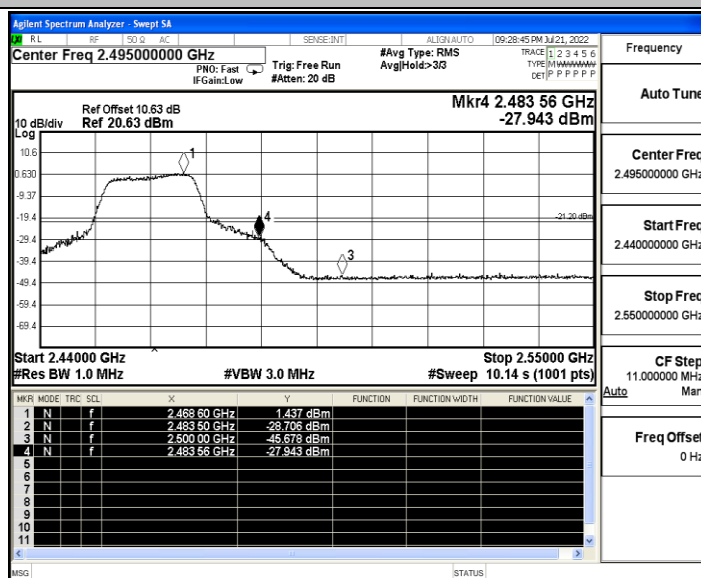
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11N20SISO_Ant1_High_2462_Peak



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