



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LED BULB

Test Model: LM535

Environmental Conditions

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



A.1 6dB Bandwidth

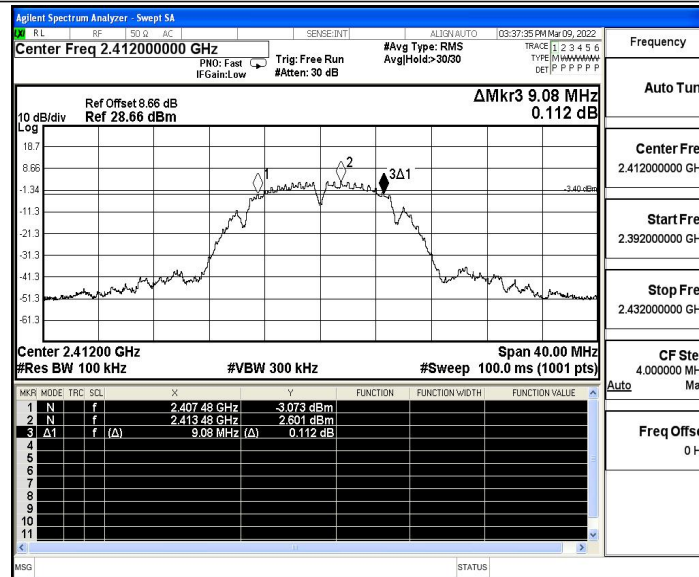
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.480	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.520	2453.240	2470.760	0.5	PASS

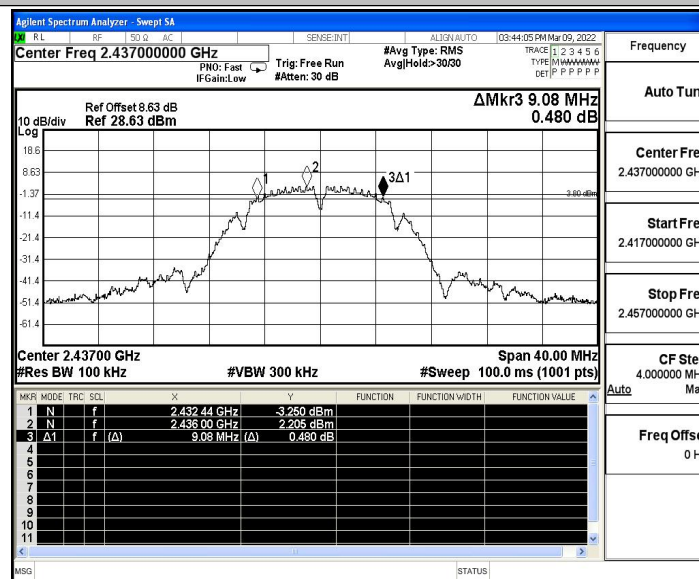


Test Graphs

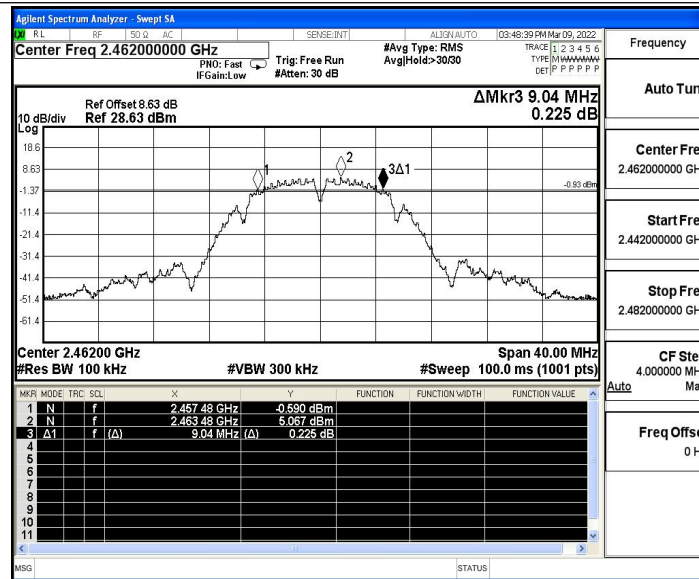
11B_Ant1_2412



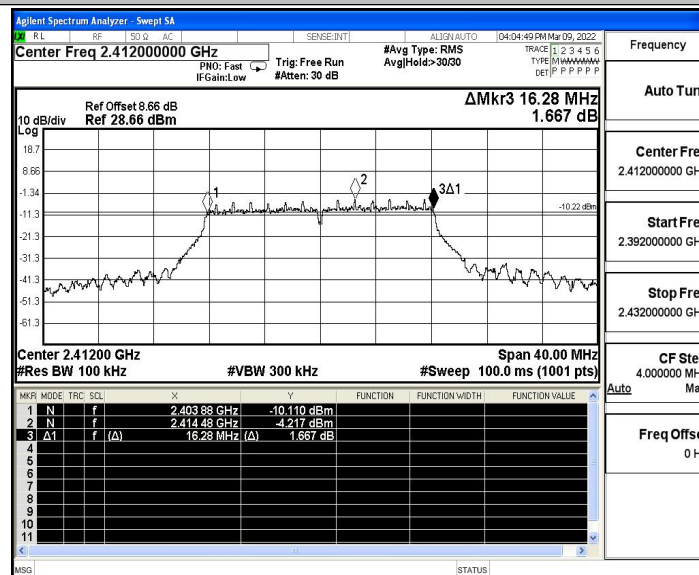
11B_Ant1_2437



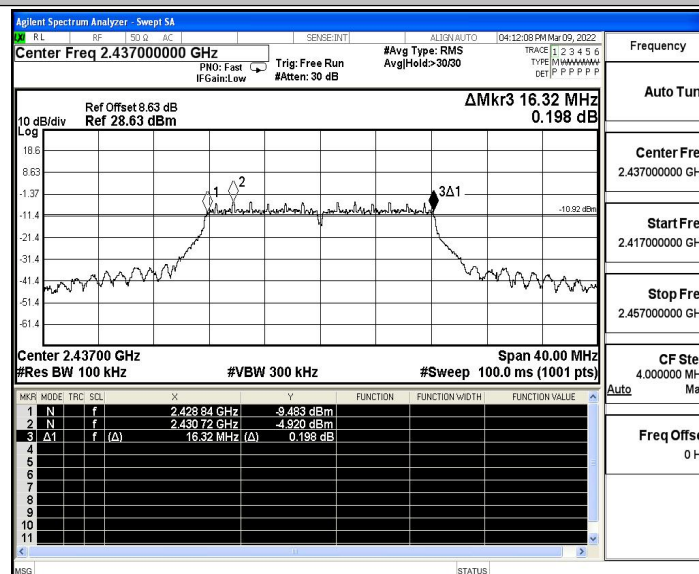
11B_Ant1_2462



11G_Ant1_2412

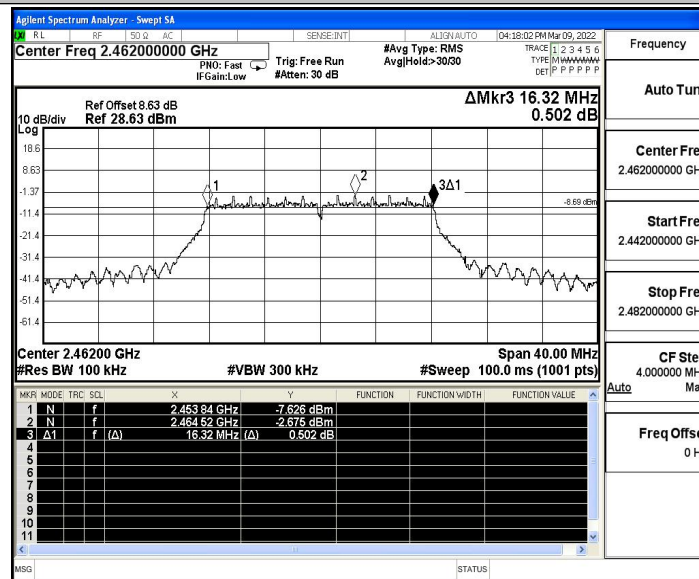


11G_Ant1_2437

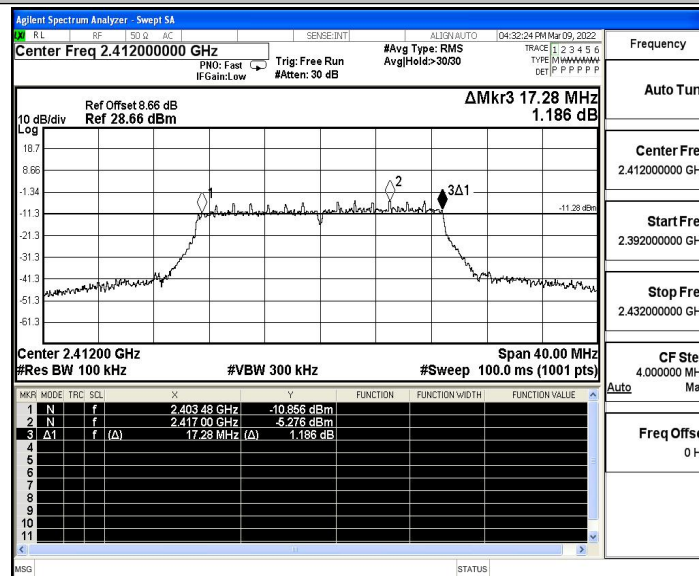




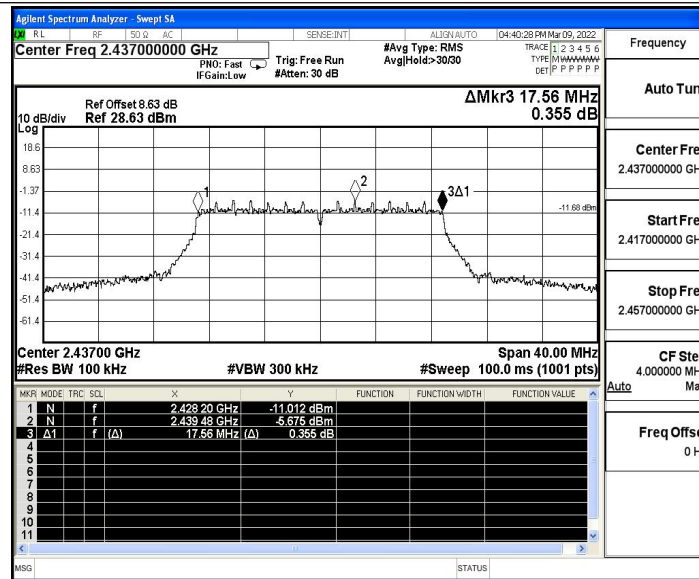
11G_Ant1_2462



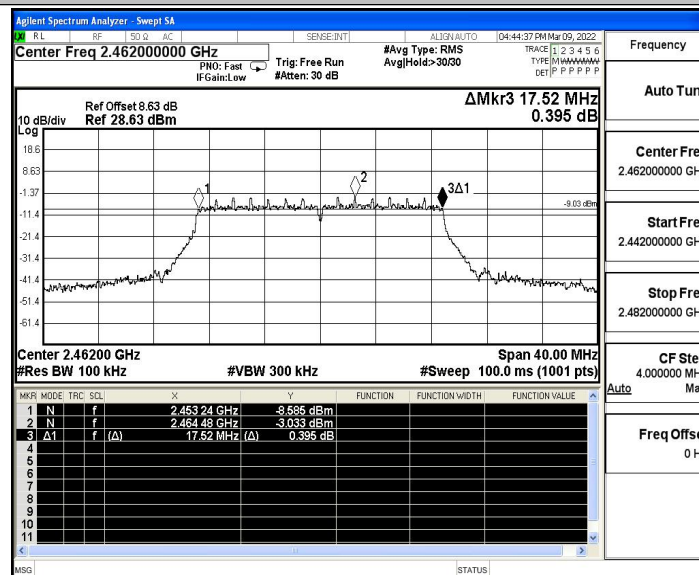
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.52	≤30.00	PASS
		2437	15.33	≤30.00	PASS
		2462	15.85	≤30.00	PASS
11G	Ant1	2412	14.93	≤30.00	PASS
		2437	14.59	≤30.00	PASS
		2462	15.74	≤30.00	PASS
11N20SISO	Ant1	2412	13.84	≤30.00	PASS
		2437	13.71	≤30.00	PASS
		2462	14.99	≤30.00	PASS



A.3 Maximum power spectral density

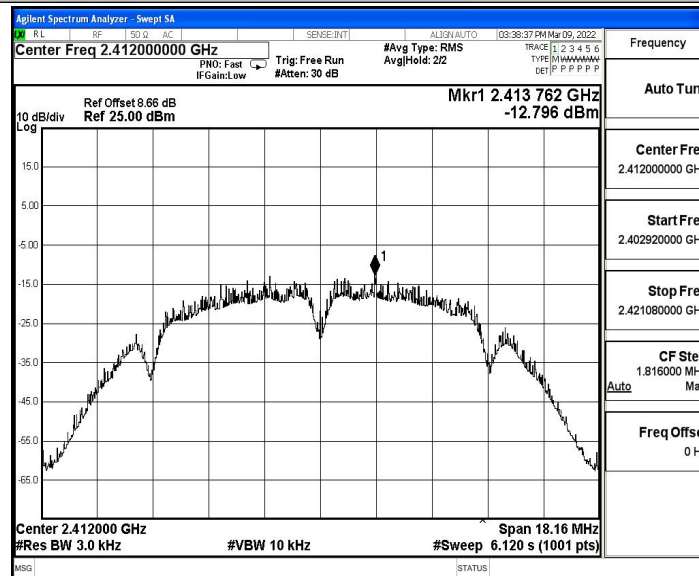
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.8	≤8.00	PASS
		2437	-13.61	≤8.00	PASS
		2462	-9.35	≤8.00	PASS
11G	Ant1	2412	-20.95	≤8.00	PASS
		2437	-20.17	≤8.00	PASS
		2462	-18.95	≤8.00	PASS
11N20SISO	Ant1	2412	-22.05	≤8.00	PASS
		2437	-22.23	≤8.00	PASS
		2462	-20.73	≤8.00	PASS

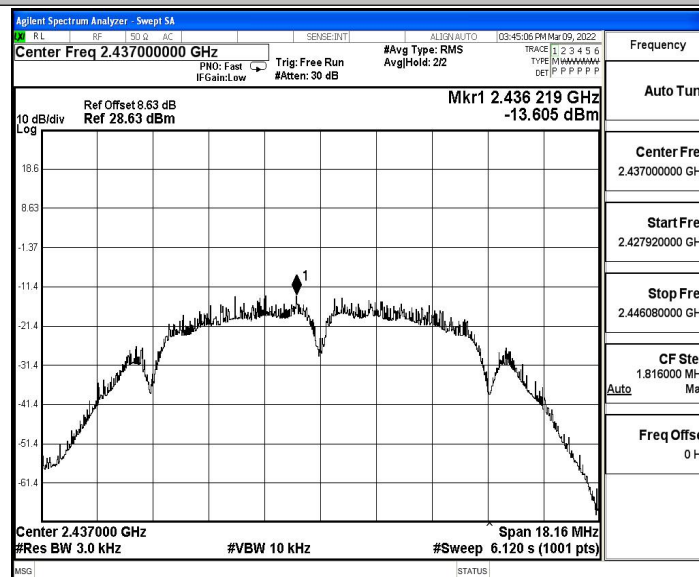


Test Graphs

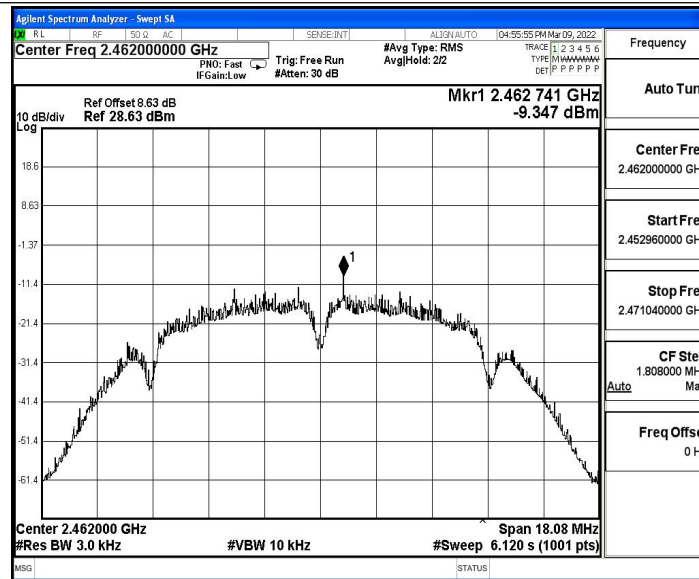
11B_Ant1_2412



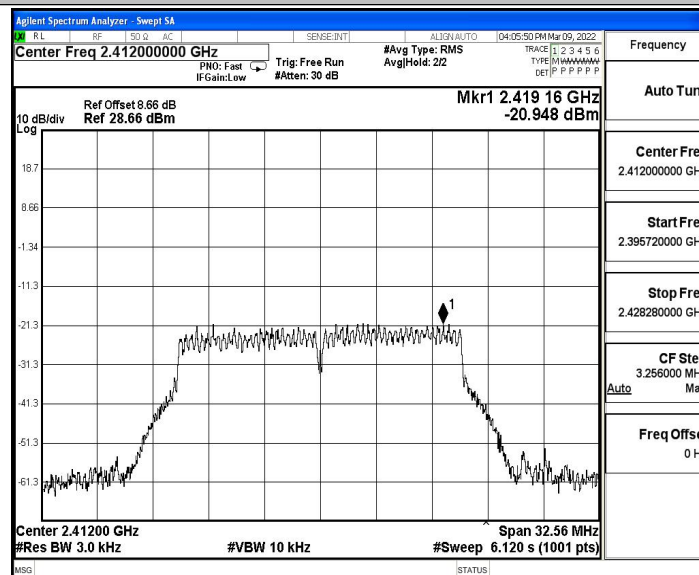
11B_Ant1_2437



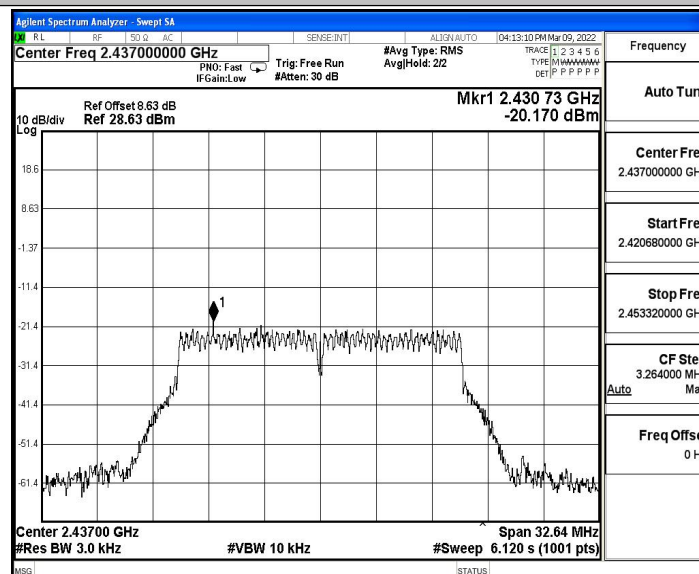
11B_Ant1_2462



11G_Ant1_2412

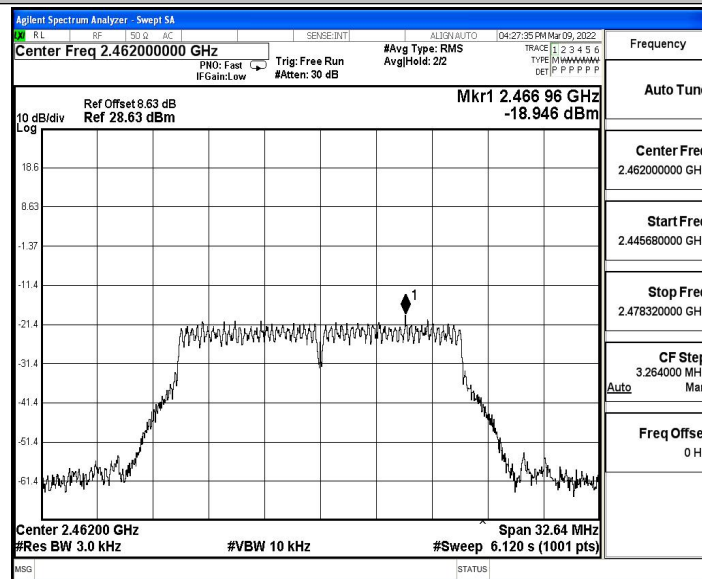


11G_Ant1_2437

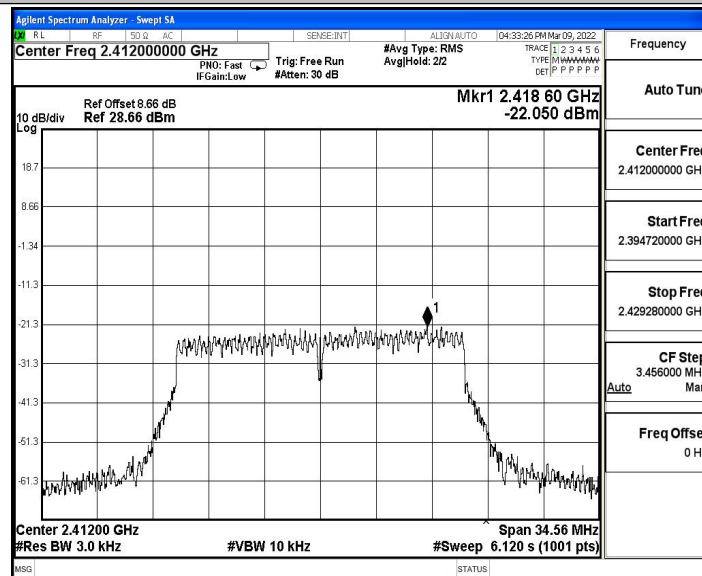




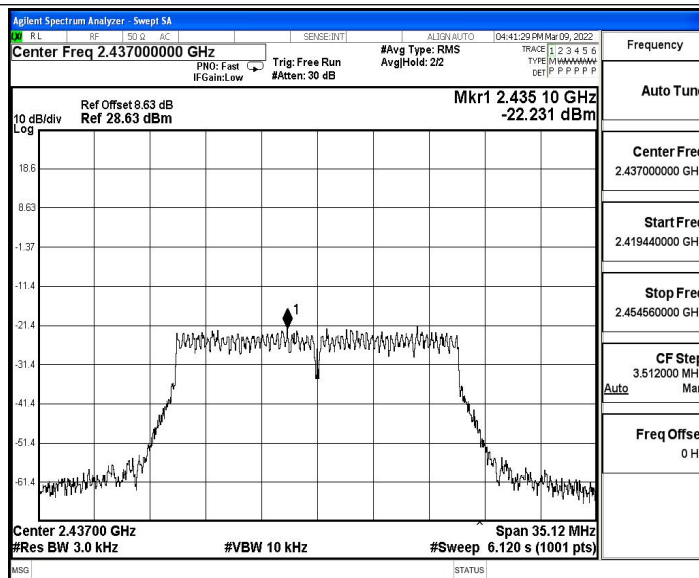
11G_Ant1_2462



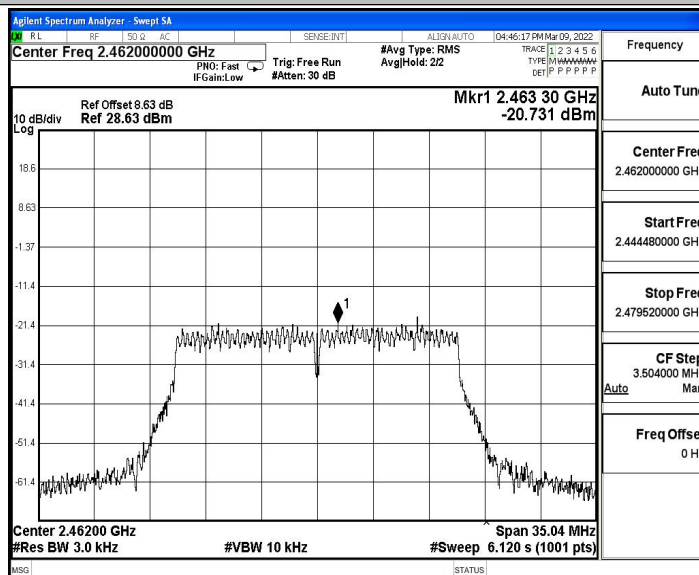
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





A.4 Band edge measurements

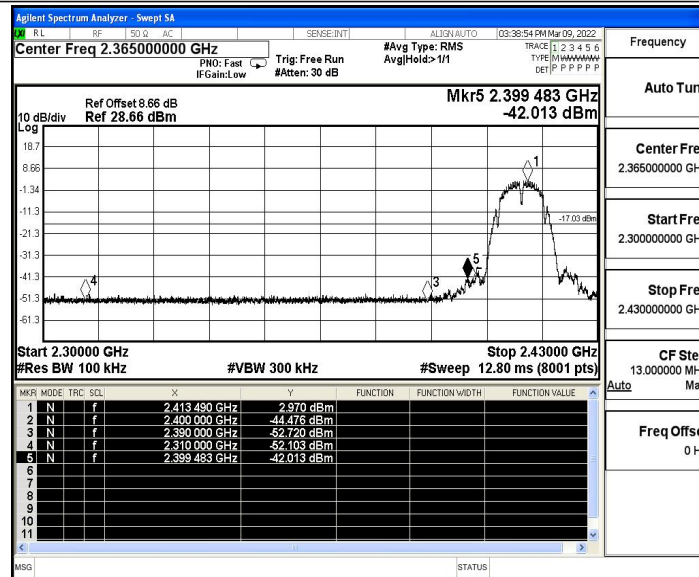
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.97	-42.01	≤ -17.03	PASS
		High	2462	4.74	-47.57	≤ -15.27	PASS
11G	Ant1	Low	2412	-4.21	-37.09	≤ -24.21	PASS
		High	2462	-2.69	-45.66	≤ -22.69	PASS
11N20SISO	Ant1	Low	2412	-5.16	-41.31	≤ -25.16	PASS
		High	2462	-4.34	-46.57	≤ -24.34	PASS

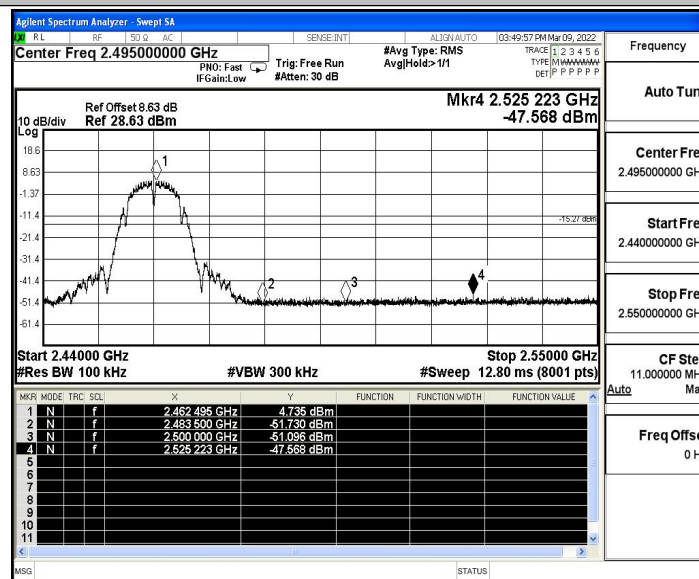


Test Graphs

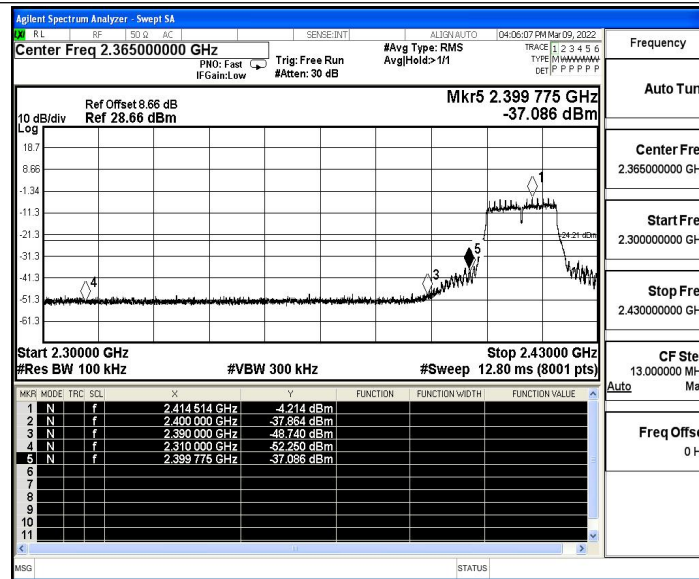
11B_Ant1_Low_2412



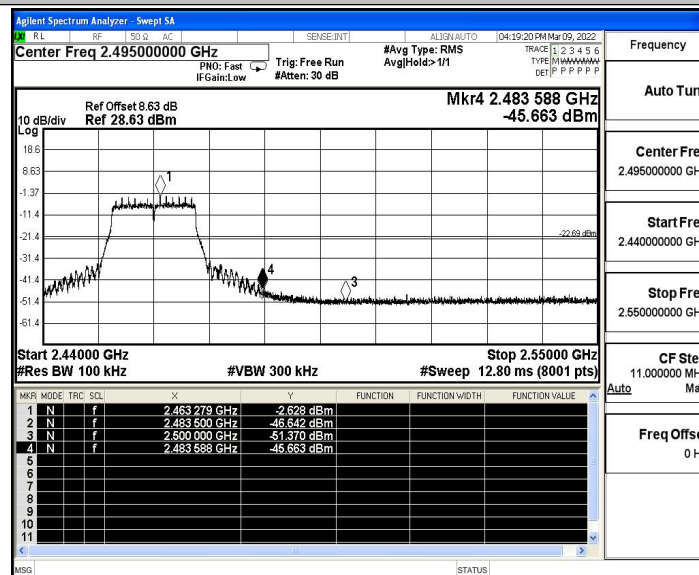
11B_Ant1_High_2462



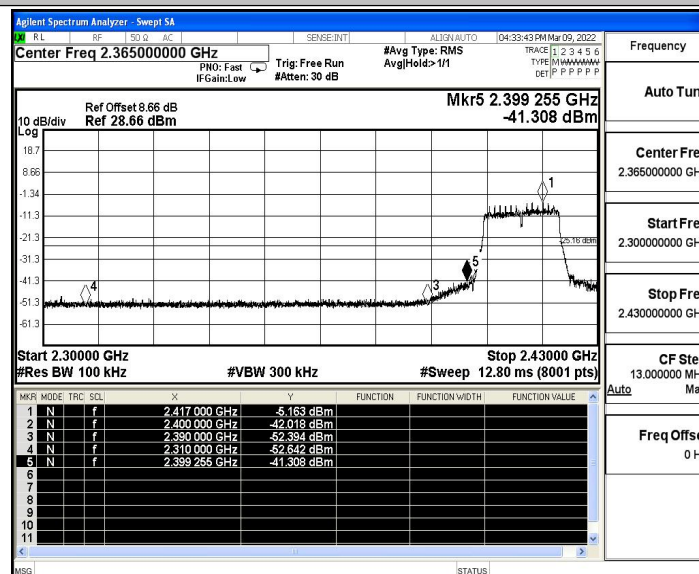
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412





A.5 Conducted Spurious Emission

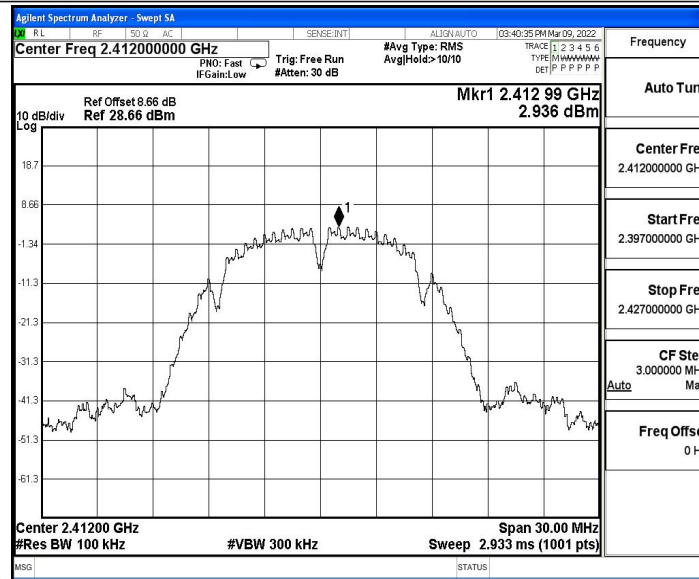
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-43.95	≤-17.07	PASS
			1000~26500	2.93	-45.99	≤-17.07	PASS
		2437	Reference	2.82	2.82	---	PASS
			30~1000	2.82	-60.88	≤-17.18	PASS
			1000~26500	2.82	-46.75	≤-17.18	PASS
		2462	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-60.64	≤-15.17	PASS
			1000~26500	4.83	-46.12	≤-15.17	PASS
11G	Ant1	2412	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-40.19	≤-24.04	PASS
			1000~26500	-4.04	-45.98	≤-24.04	PASS
		2437	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-60.75	≤-24.66	PASS
			1000~26500	-4.66	-46.2	≤-24.66	PASS
		2462	Reference	-2.72	-2.72	---	PASS
			30~1000	-2.72	-60.49	≤-22.72	PASS
			1000~26500	-3.74	-46.25	≤-23.74	PASS
11N20SISO	Ant1	2412	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-60.46	≤-25.22	PASS
			1000~26500	-5.22	-46.2	≤-25.22	PASS
		2437	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-60.98	≤-25.13	PASS
			1000~26500	-5.13	-46.1	≤-25.13	PASS
		2462	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-60.06	≤-25.18	PASS
			1000~26500	-5.18	-46.13	≤-25.18	PASS

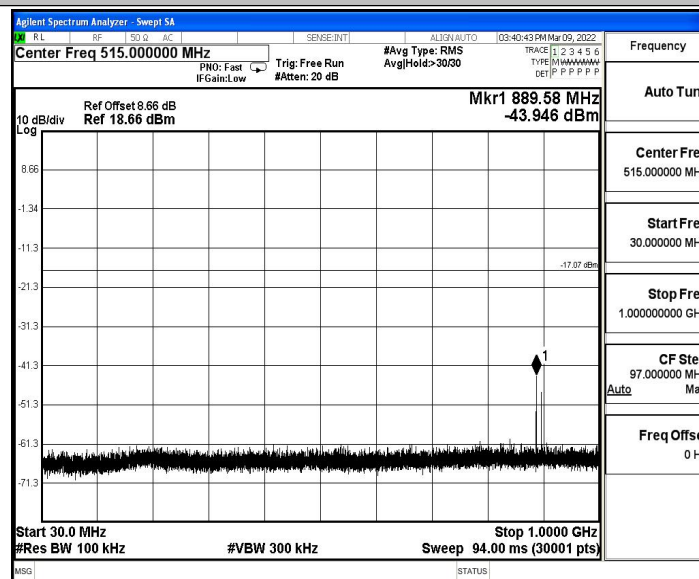


Test Graphs

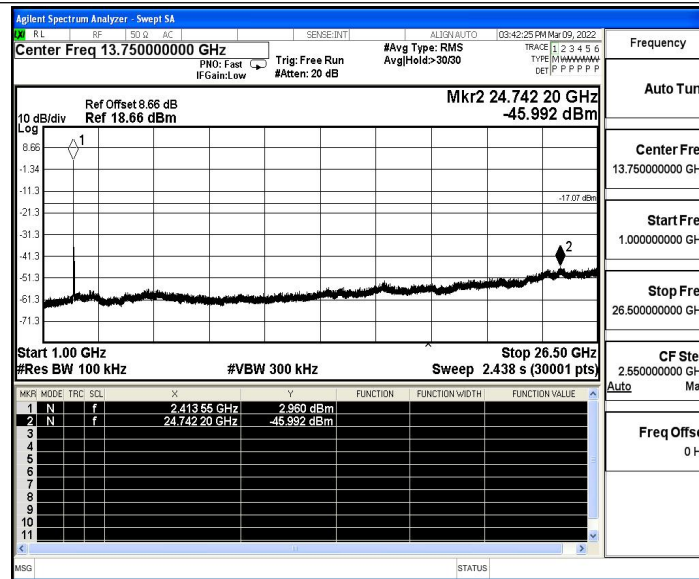
11B_Ant1_2412_0~Reference



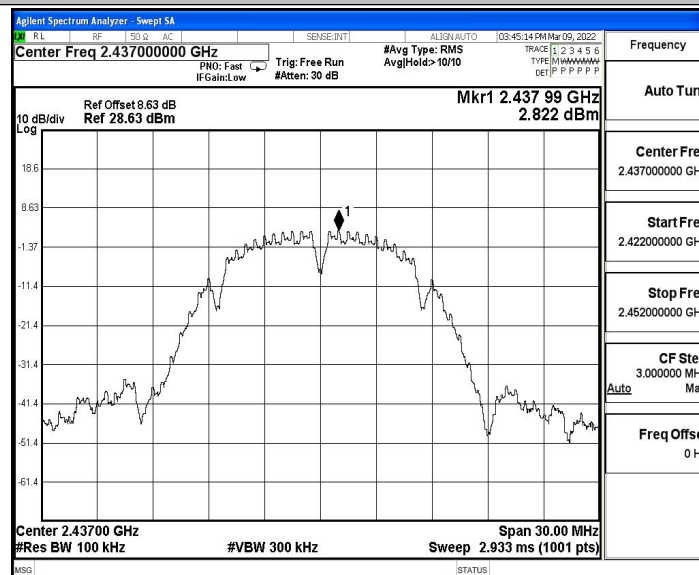
11B_Ant1_2412_30~1000



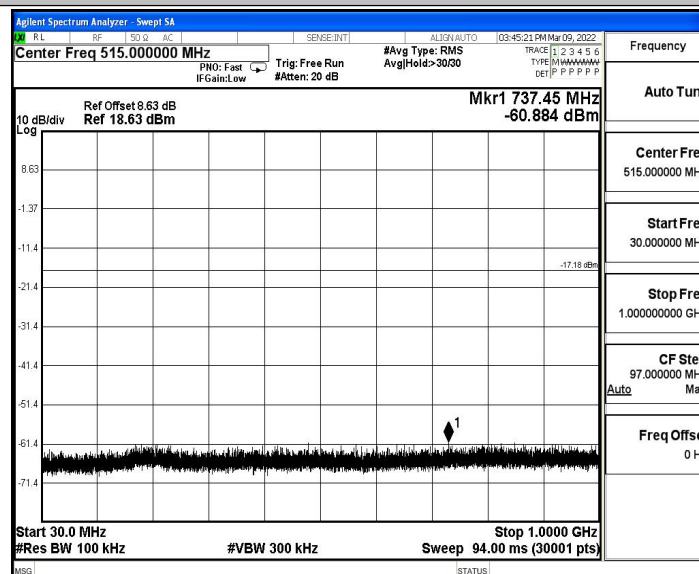
11B_Ant1_2412_1000~26500

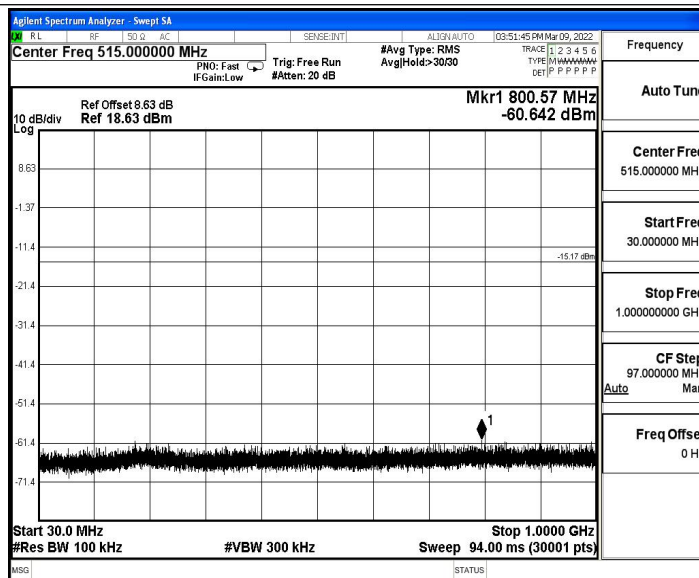


11B_Ant1_2437_0~Reference

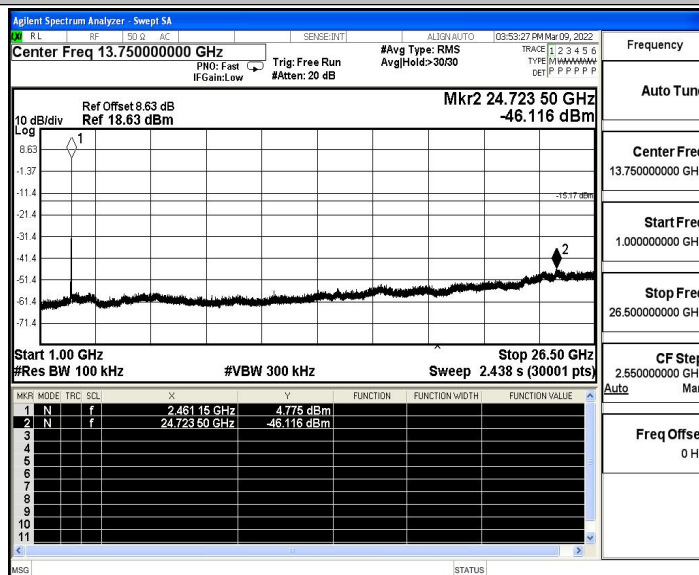


11B_Ant1_2437_30~1000





11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

