



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: JQ901A

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Huan Li



B.1 DTS Bandwidth

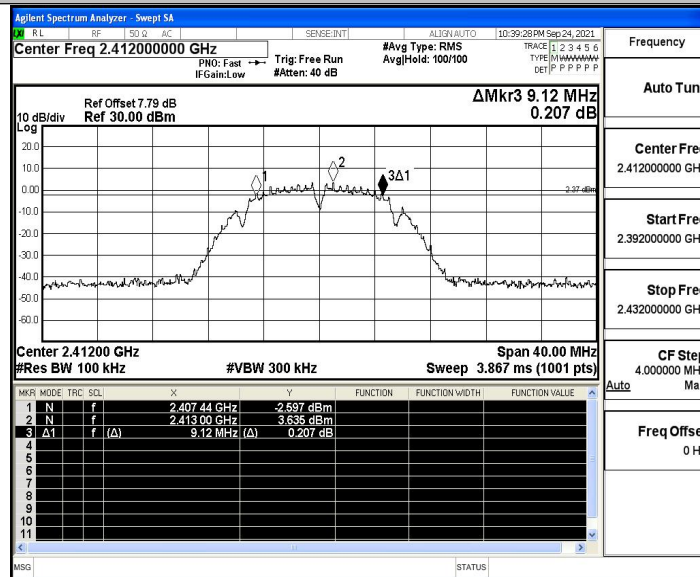
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	0.5	PASS
		2437	9.200	2432.400	2441.600	0.5	PASS
		2462	9.640	2456.920	2466.560	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.400	2428.840	2445.240	0.5	PASS
		2462	15.800	2453.760	2469.560	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.160	2420.840	0.5	PASS
		2437	17.400	2428.440	2445.840	0.5	PASS
		2462	14.240	2453.160	2467.400	0.5	PASS
11N40SISO	Ant1	2422	35.920	2404.320	2440.240	0.5	PASS
		2437	35.760	2419.480	2455.240	0.5	PASS
		2452	35.600	2434.000	2469.600	0.5	PASS

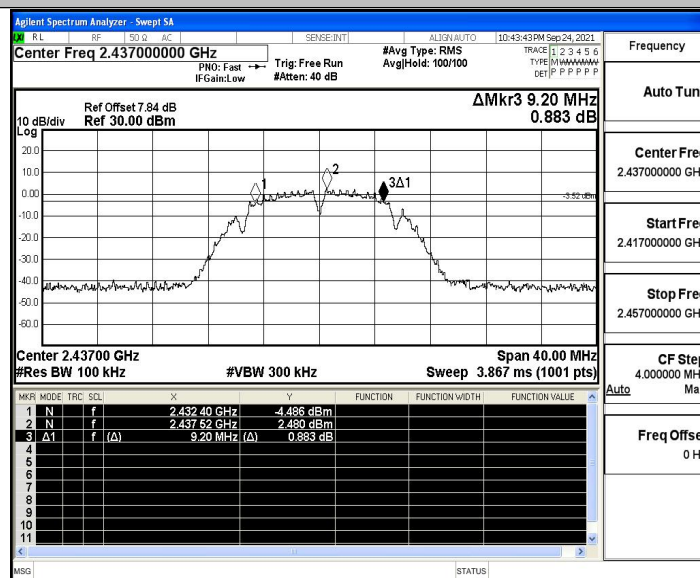


Test Graphs

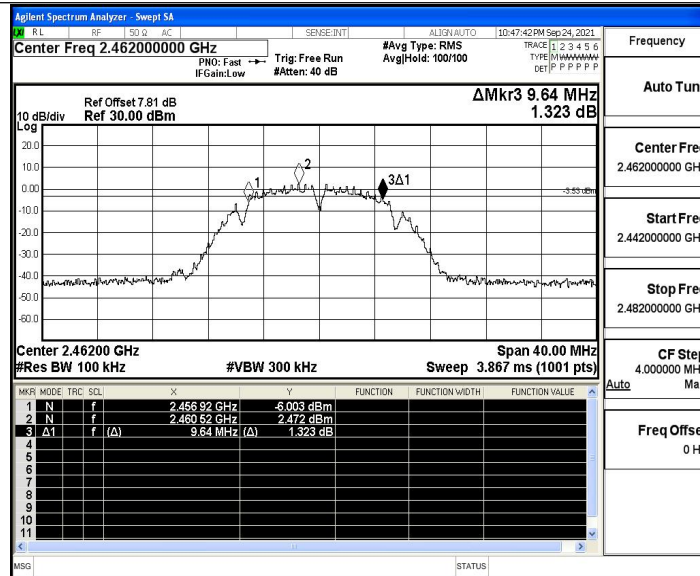
11B_Ant1_2412



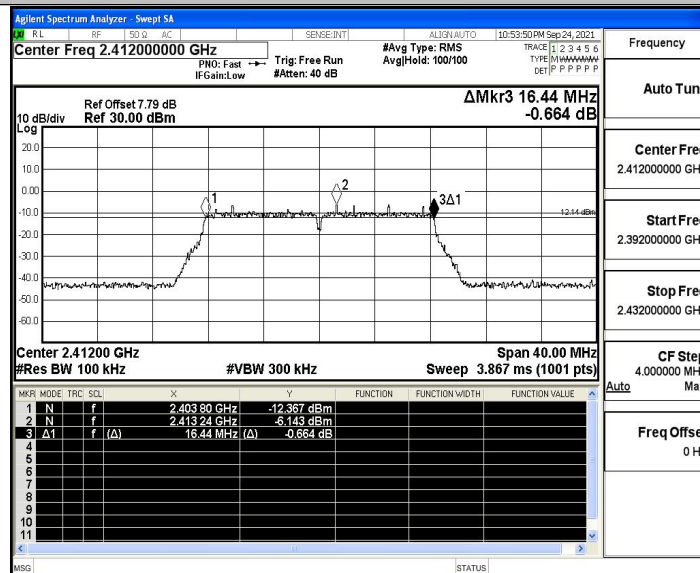
11B_Ant1_2437



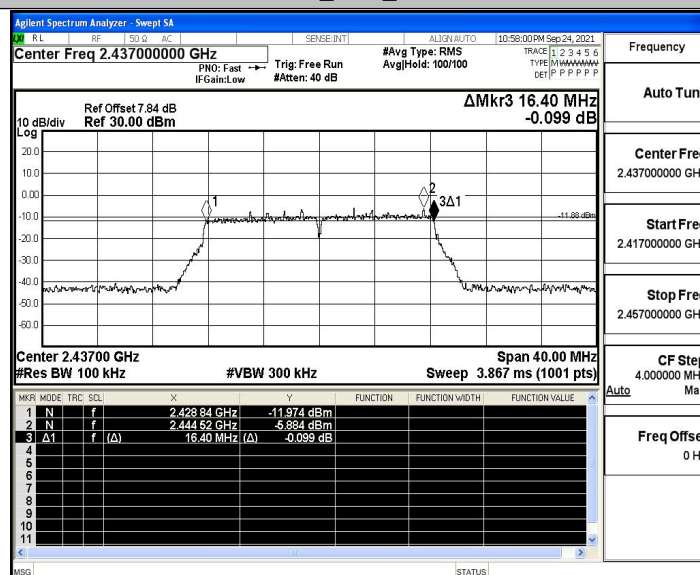
11B_Ant1_2462



11G_Ant1_2412

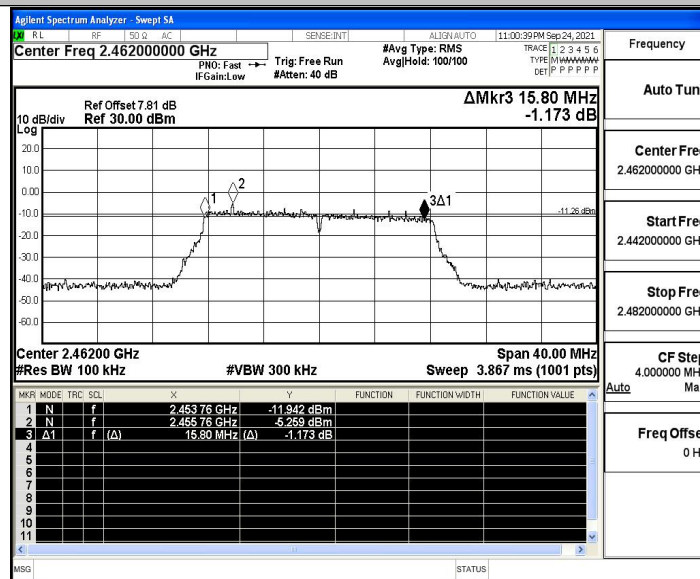


11G_Ant1_2437

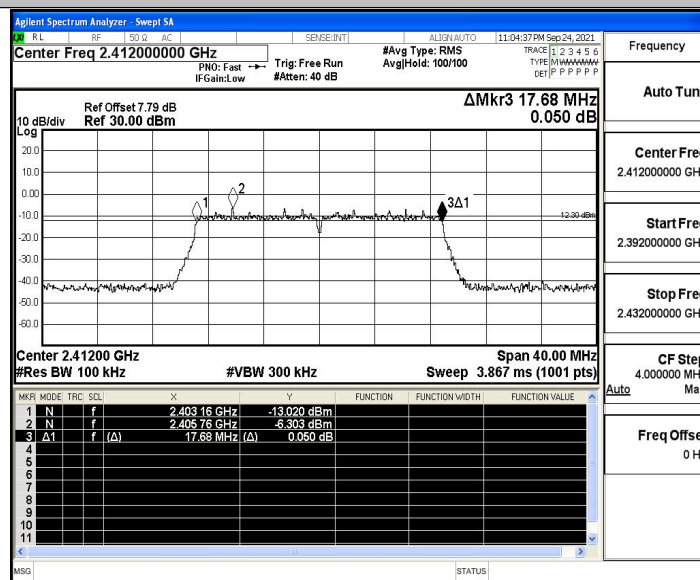




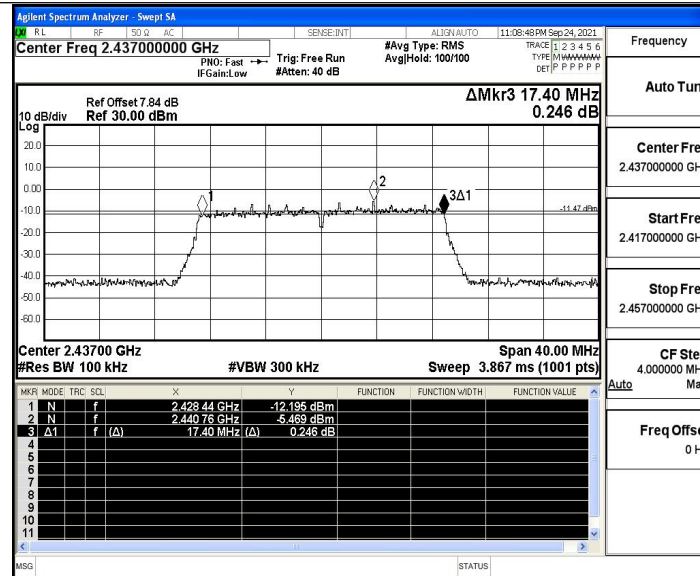
11G_Ant1_2462



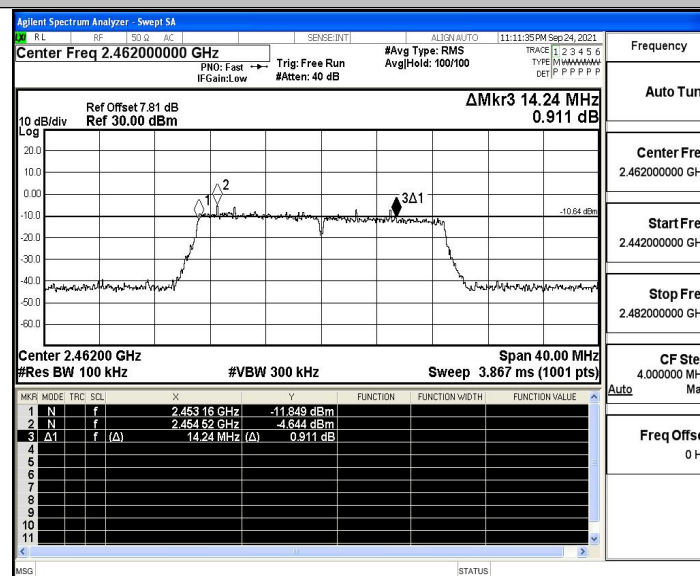
11N20SISO_Ant1_2412



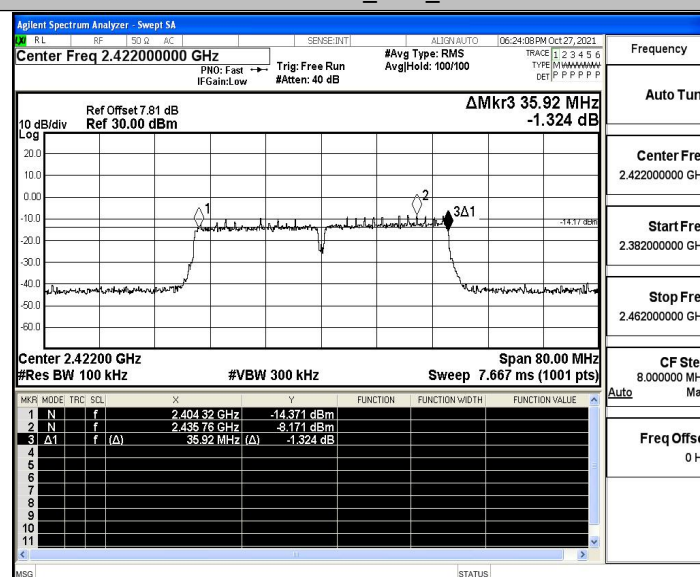
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

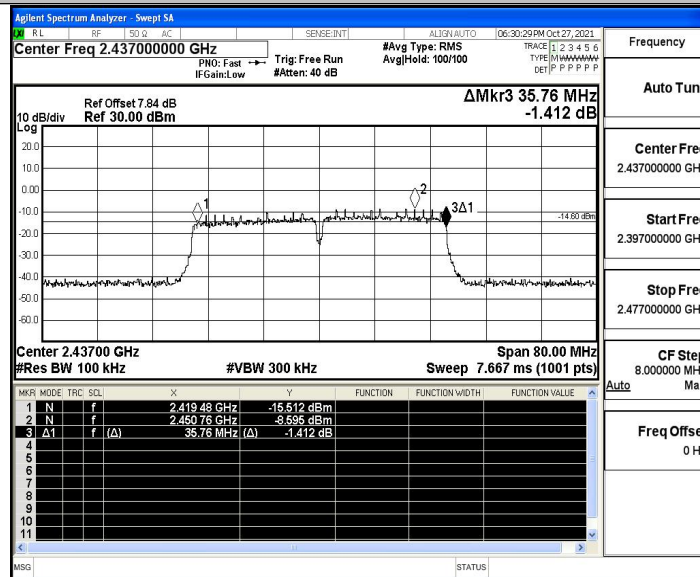


11N40SISO_Ant1_2422

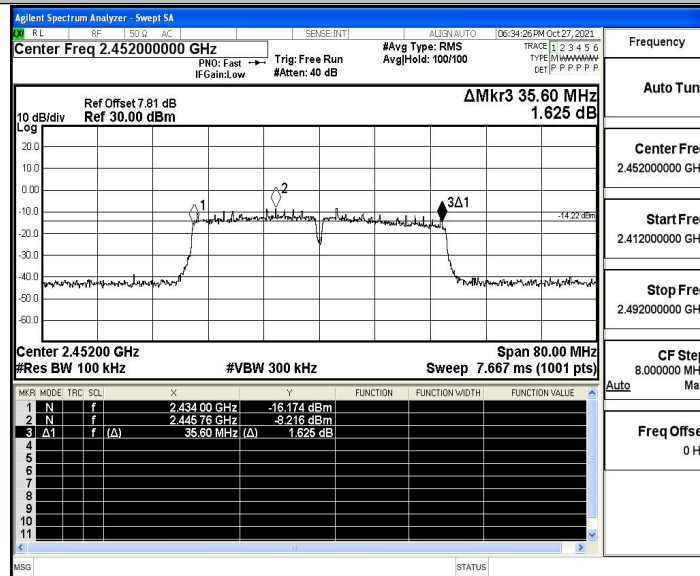




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.21	≤30	PASS
		2437	15.14	≤30	PASS
		2462	14.43	≤30	PASS
11G	Ant1	2412	12.43	≤30	PASS
		2437	12.50	≤30	PASS
		2462	12.28	≤30	PASS
11N20SISO	Ant1	2412	12.61	≤30	PASS
		2437	12.64	≤30	PASS
		2462	12.40	≤30	PASS
11N40SISO	Ant1	2422	12.83	≤30	PASS
		2437	12.72	≤30	PASS
		2452	12.21	≤30	PASS



B.3 Maximum power spectral density

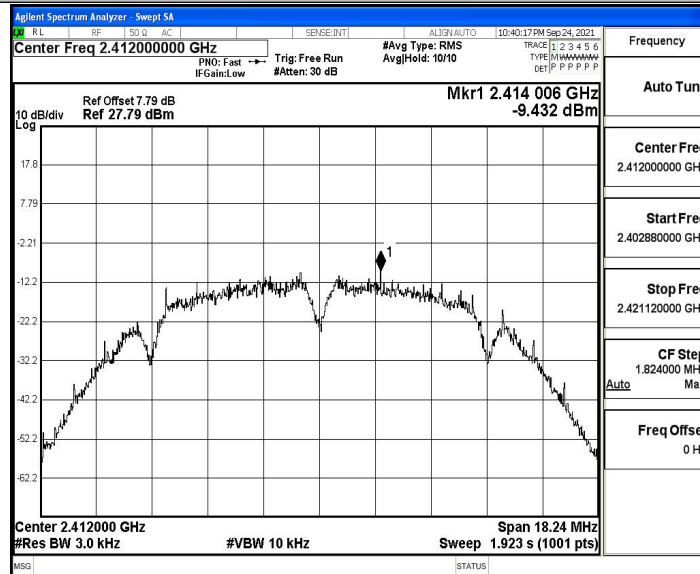
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.43	≤8	PASS
		2437	-10.65	≤8	PASS
		2462	-2.07	≤8	PASS
11G	Ant1	2412	-19.16	≤8	PASS
		2437	-18.69	≤8	PASS
		2462	-19.25	≤8	PASS
11N20SISO	Ant1	2412	-19.85	≤8	PASS
		2437	-19.96	≤8	PASS
		2462	-19.17	≤8	PASS
11N40SISO	Ant1	2422	-22.81	≤8	PASS
		2437	-21.52	≤8	PASS
		2452	-22.07	≤8	PASS

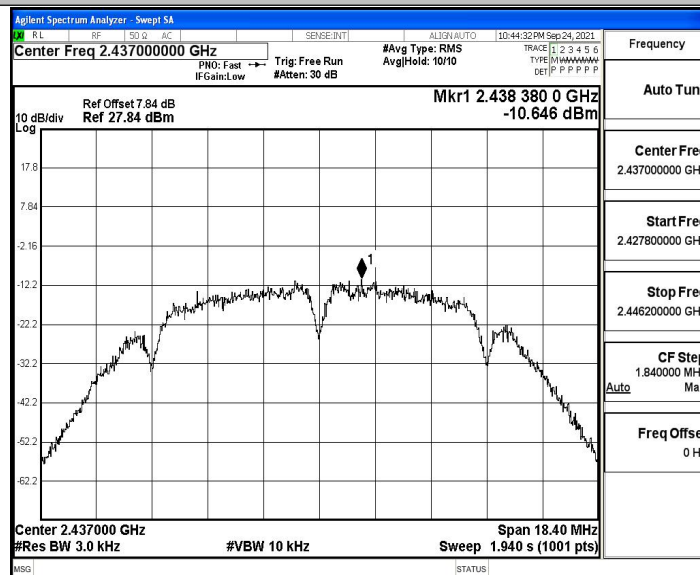


Test Graphs

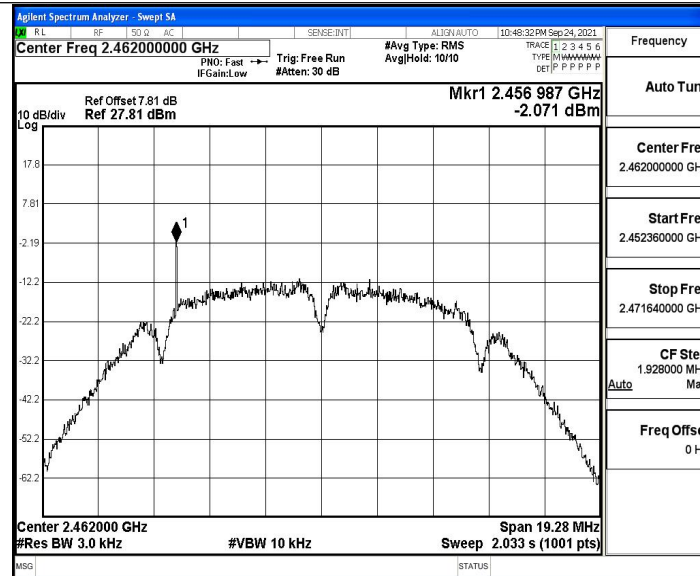
11B_Ant1_2412



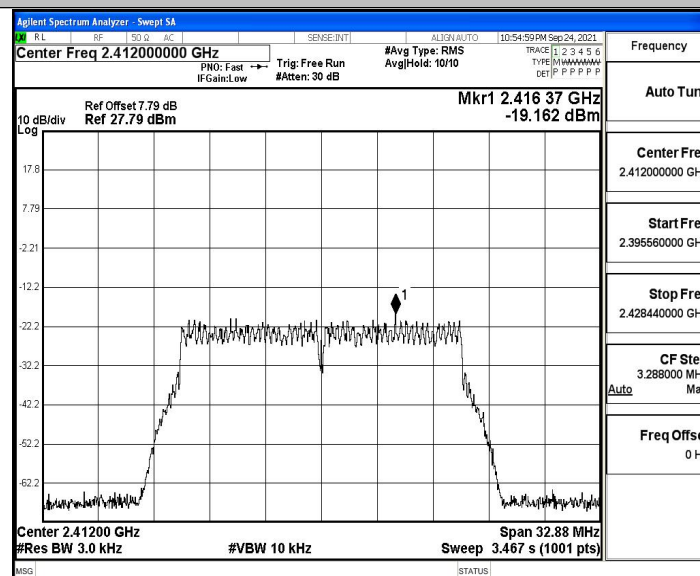
11B_Ant1_2437



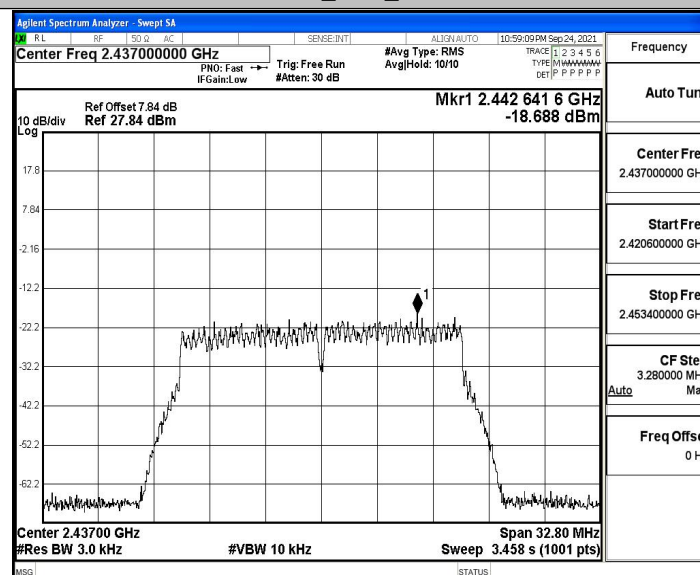
11B_Ant1_2462



11G_Ant1_2412

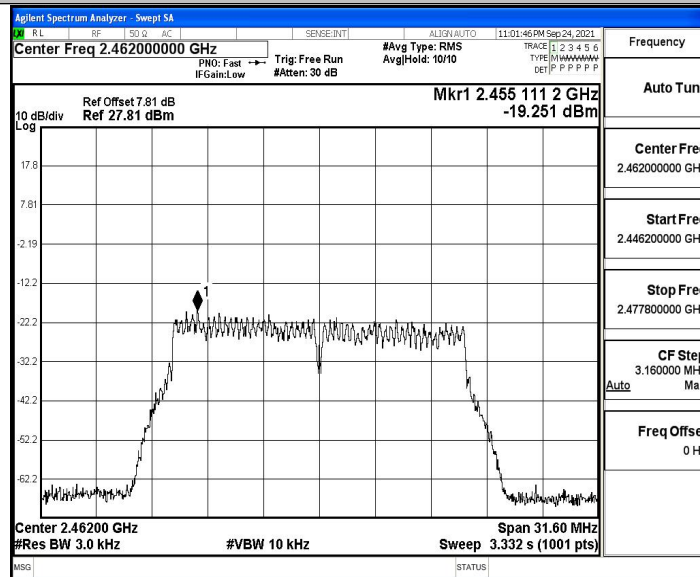


11G_Ant1_2437

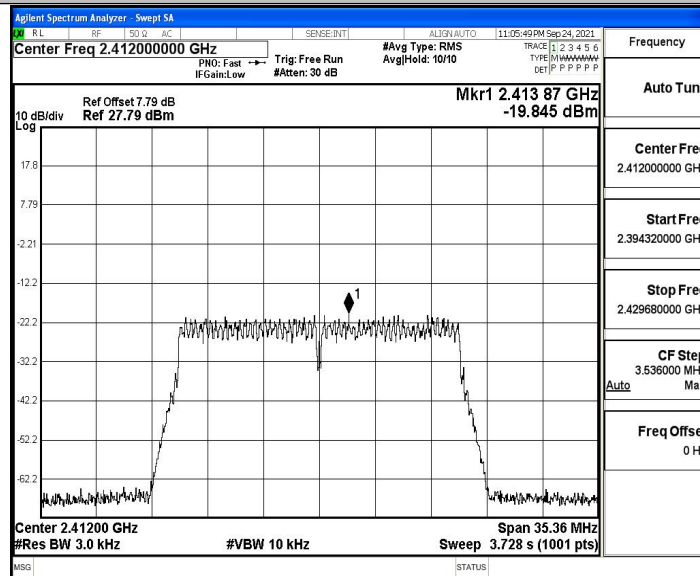




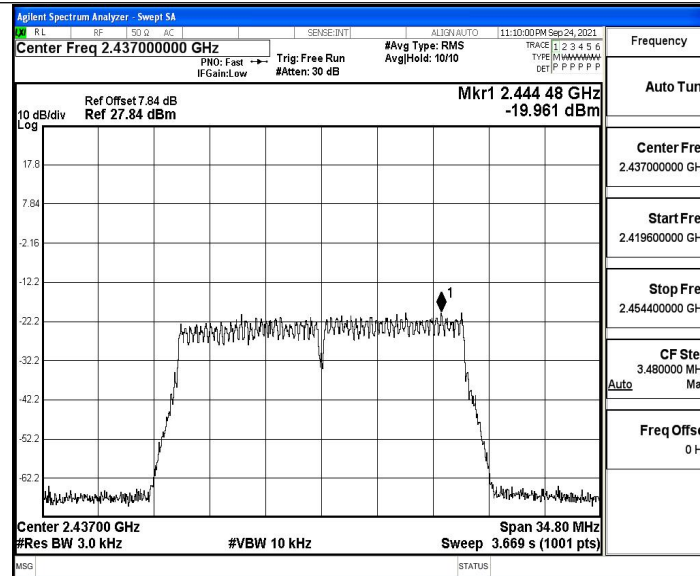
11G_Ant1_2462



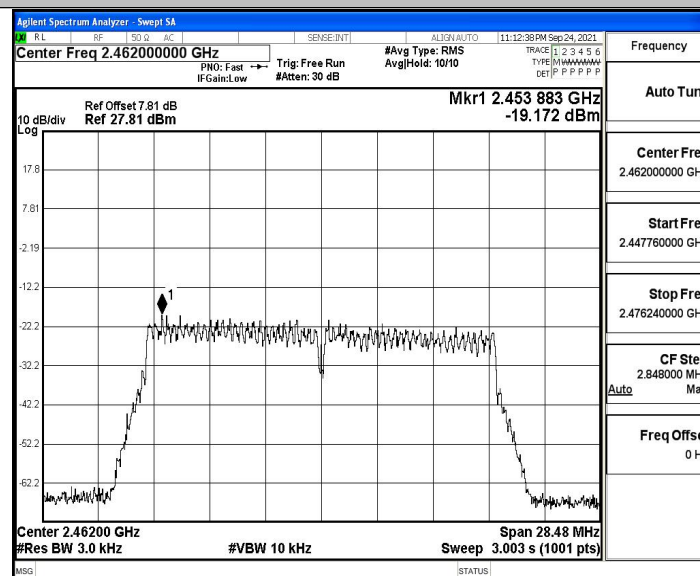
11N20SISO_Ant1_2412



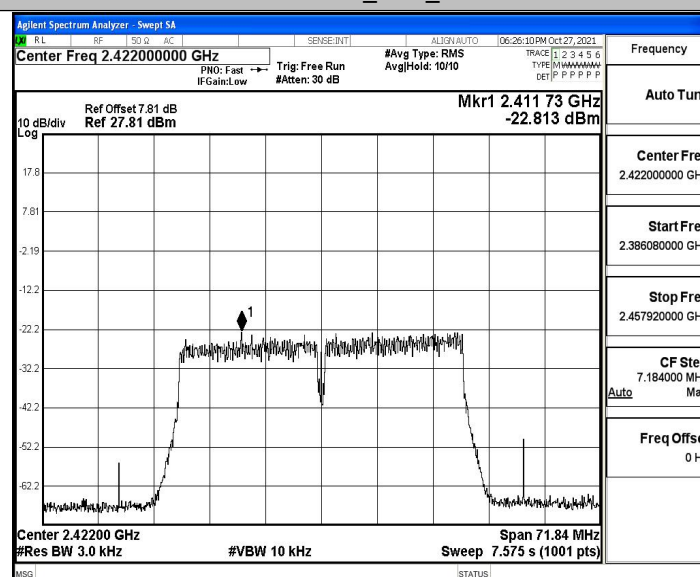
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

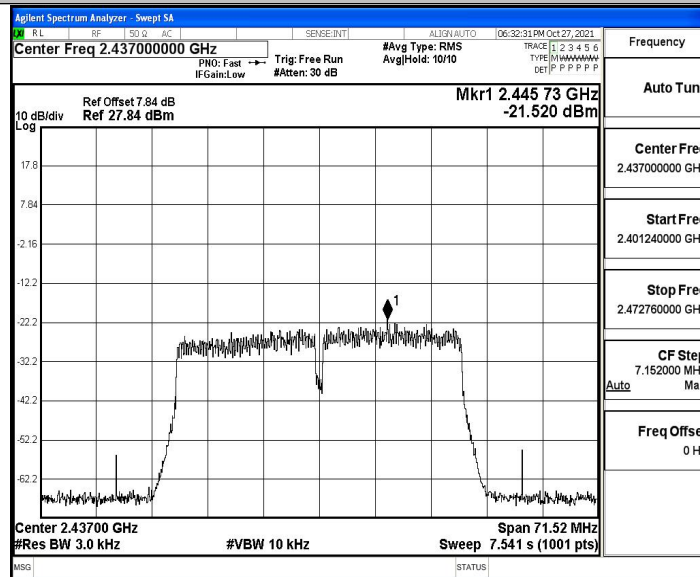


11N40SISO_Ant1_2422

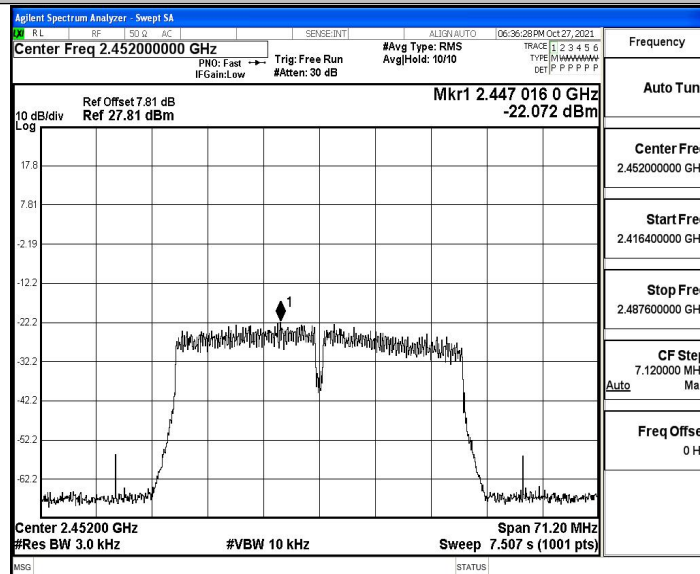




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





B.4 Band edge measurements

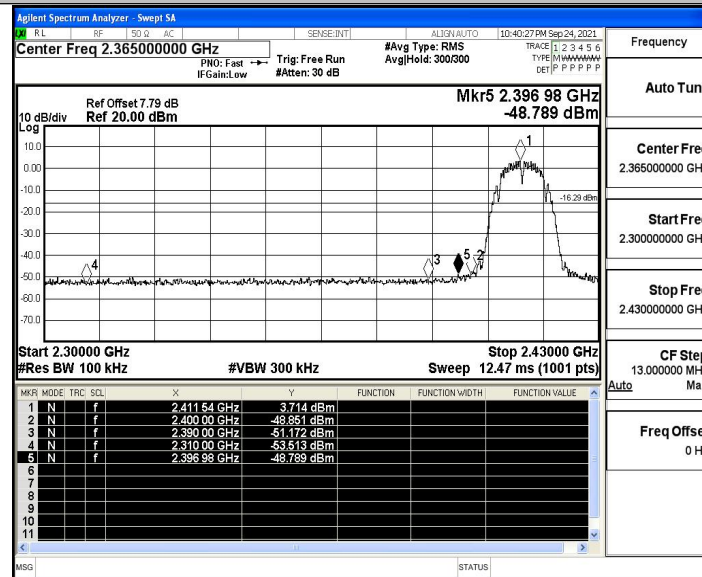
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.71	-48.79	≤ -16.29	PASS
		High	2462	2.74	-47.77	≤ -17.26	PASS
11G	Ant1	Low	2412	-6.18	-49.54	≤ -26.18	PASS
		High	2462	-5.18	-46.63	≤ -25.18	PASS
11N20SISO	Ant1	Low	2412	-6.10	-48.43	≤ -26.1	PASS
		High	2462	-4.96	-47.08	≤ -24.96	PASS
11N40SISO	Ant1	Low	2422	-9.19	-47.72	≤ -29.19	PASS
		High	2452	-7.94	-48.2	≤ -27.94	PASS

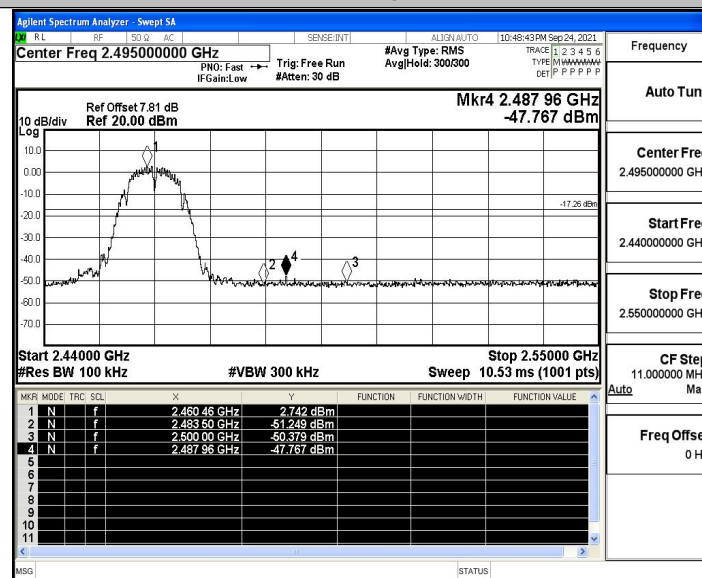


Test Graphs

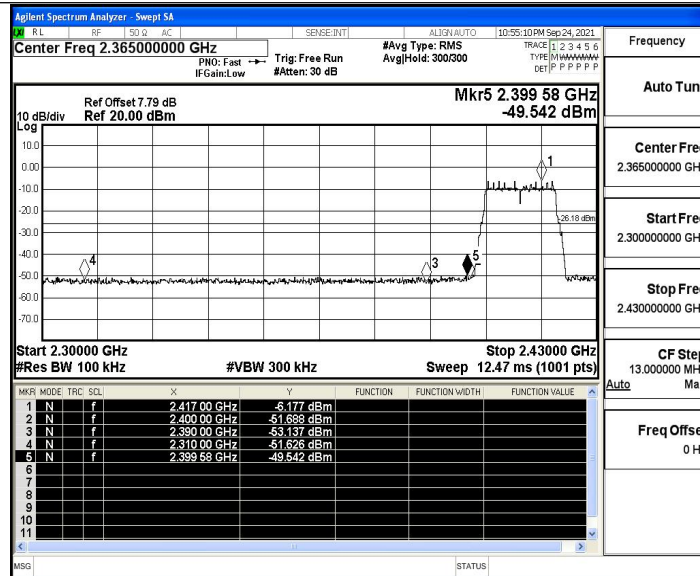
11B_Ant1_Low_2412



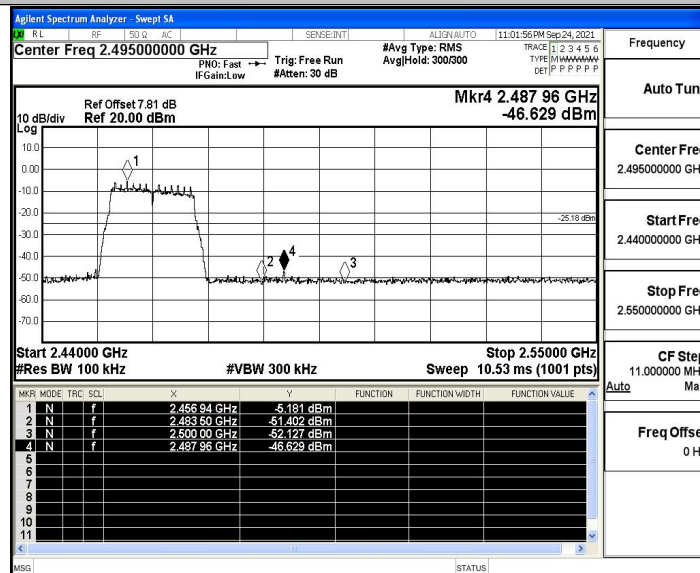
11B_Ant1_High_2462



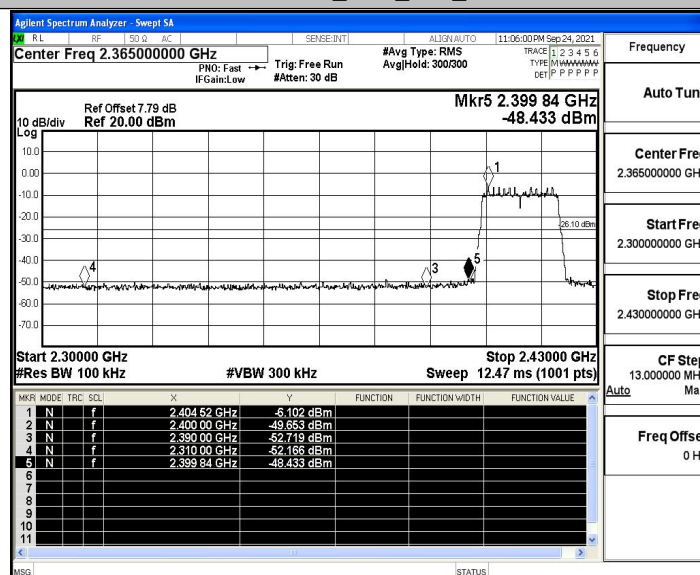
11G_Ant1_Low_2412



11G_Ant1_High_2462

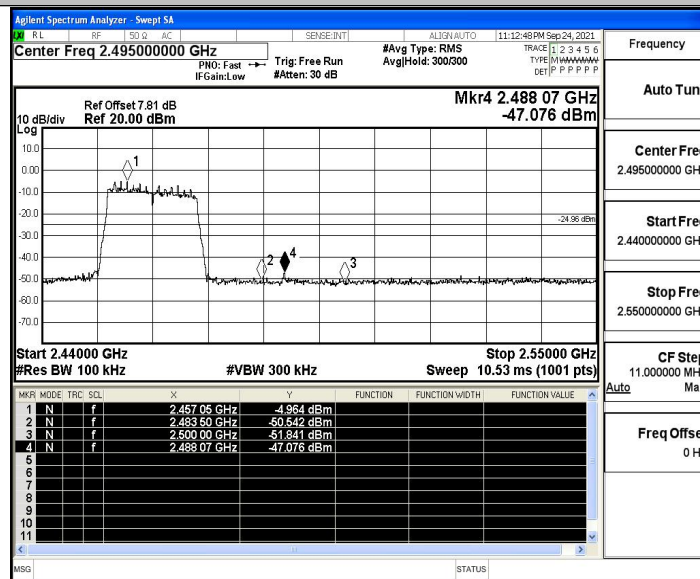


11N20SISO_Ant1_Low_2412

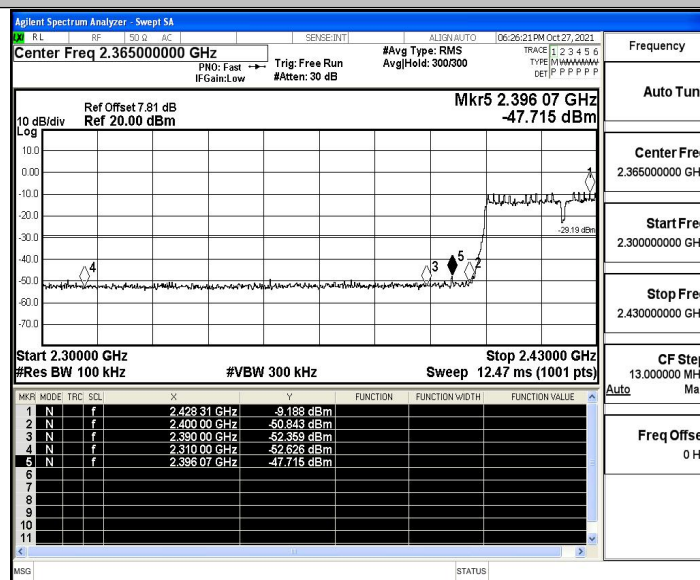




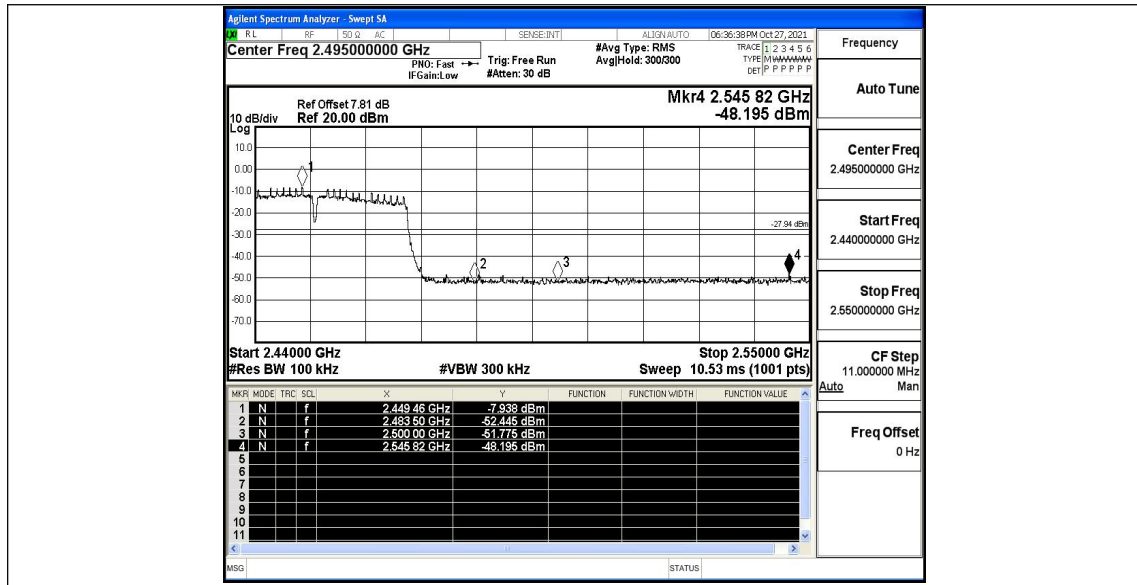
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





B.5 Conducted Spurious Emission

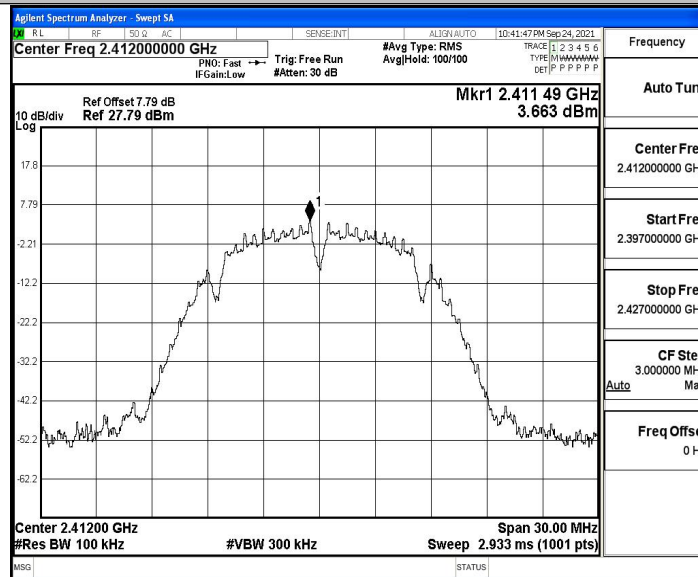
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.66	3.66	---	PASS
			30~1000	3.66	-62.07	≤-16.34	PASS
			1000~26500	3.66	-47.34	≤-16.34	PASS
		2437	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-61.15	≤-16.53	PASS
			1000~26500	3.47	-47.84	≤-16.53	PASS
		2462	Reference	2.73	2.73	---	PASS
			30~1000	2.73	-61.09	≤-17.28	PASS
			1000~26500	2.73	-47.66	≤-17.28	PASS
11G	Ant1	2412	Reference	-6.29	-6.29	---	PASS
			30~1000	-6.29	-61.18	≤-26.29	PASS
			1000~26500	-6.29	-46.69	≤-26.29	PASS
		2437	Reference	-5.98	-5.98	---	PASS
			30~1000	-5.98	-61.19	≤-25.98	PASS
			1000~26500	-5.98	-47.15	≤-25.98	PASS
		2462	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-61.94	≤-25.06	PASS
			1000~26500	-5.06	-46.7	≤-25.06	PASS
11N20SISO	Ant1	2412	Reference	-6.21	-6.21	---	PASS
			30~1000	-6.21	-61.68	≤-26.21	PASS
			1000~26500	-6.21	-47.35	≤-26.21	PASS
		2437	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-61.06	≤-26.09	PASS
			1000~26500	-6.09	-47.1	≤-26.09	PASS
		2462	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-61.93	≤-25.15	PASS
			1000~26500	-5.15	-47.48	≤-25.15	PASS
11N40SISO	Ant1	2422	Reference	-7.95	-7.95	---	PASS
			30~1000	-7.95	-61.04	≤-27.95	PASS
			1000~26500	-7.95	-47.52	≤-27.95	PASS
		2437	Reference	-8.54	-8.54	---	PASS
			30~1000	-8.54	-61.47	≤-28.54	PASS
			1000~26500	-8.54	-47.17	≤-28.54	PASS
		2452	Reference	-8.22	-8.22	---	PASS
			30~1000	-8.22	-61.76	≤-28.22	PASS
			1000~26500	-8.22	-46.94	≤-28.22	PASS

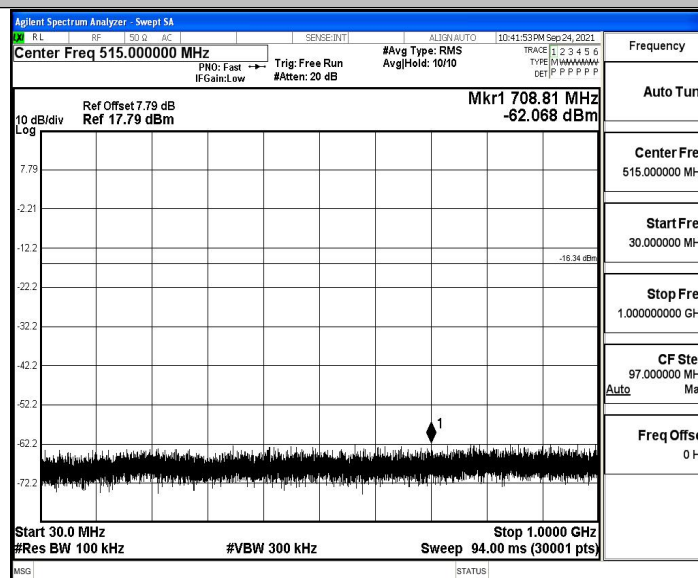


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500