



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: WEBOS SMART TV

Test Model: PTVWEB75UHD

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Libin



C.1 6dB Bandwidth

Test Result

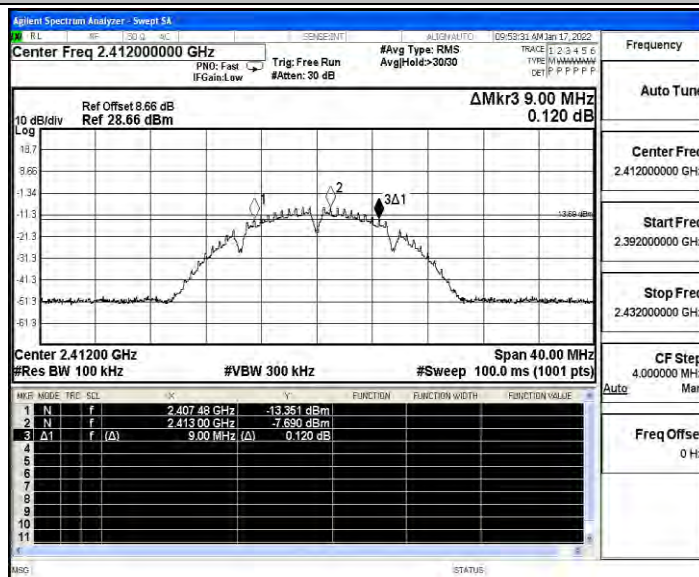
ANT0

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	9.000	2407.480	2416.480	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant0	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.440	2429.440	2444.880	0.5	PASS
		2462	15.280	2454.440	2469.720	0.5	PASS
11N20SISO	Ant0	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant0	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

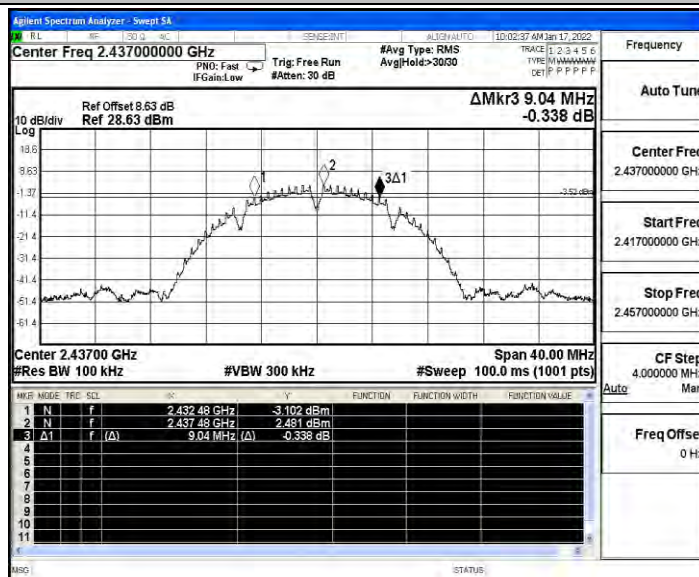


Test Graphs

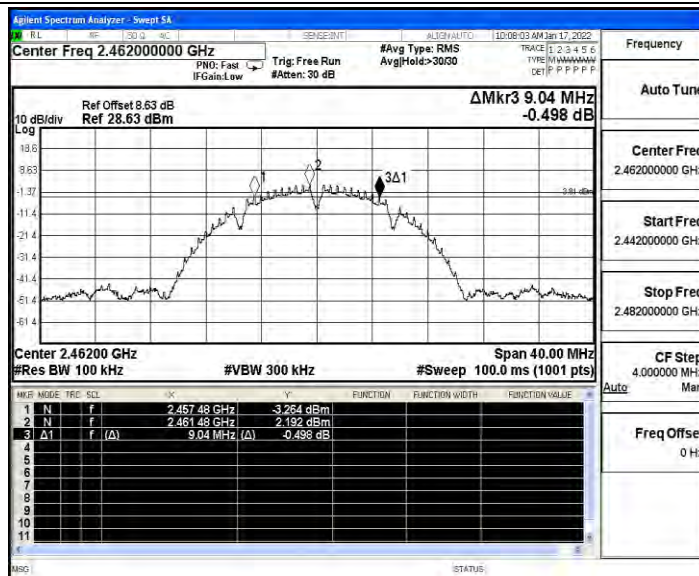
11B_Ant0_2412



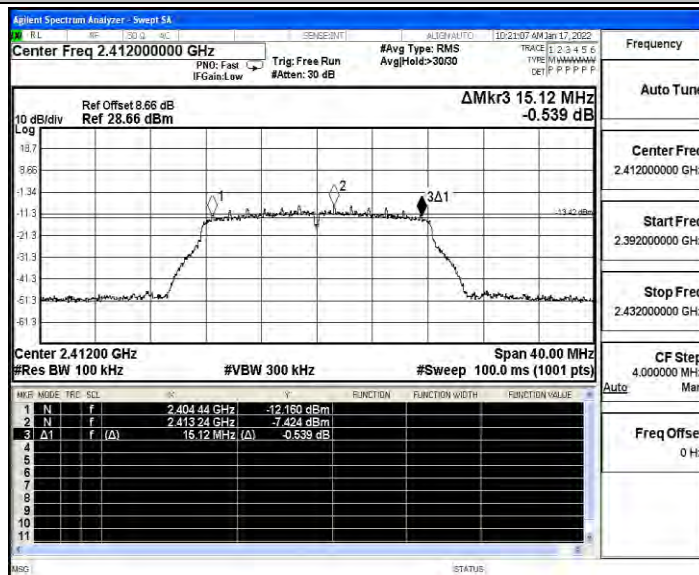
11B_Ant0_2437



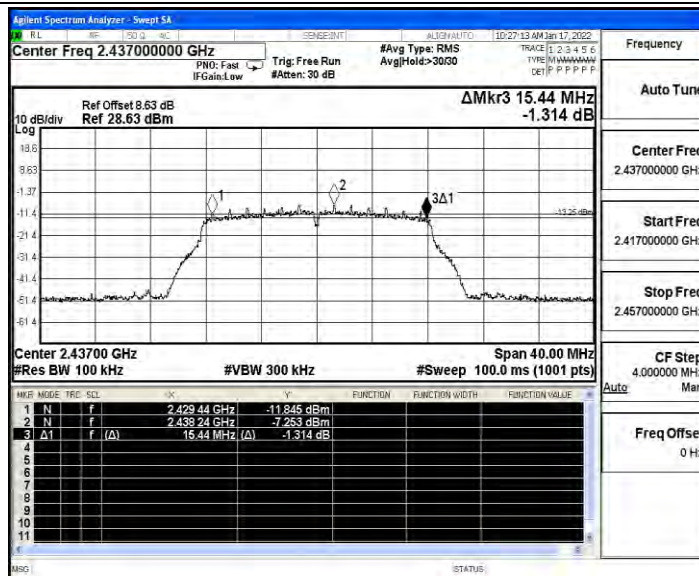
11B_Ant0_2462



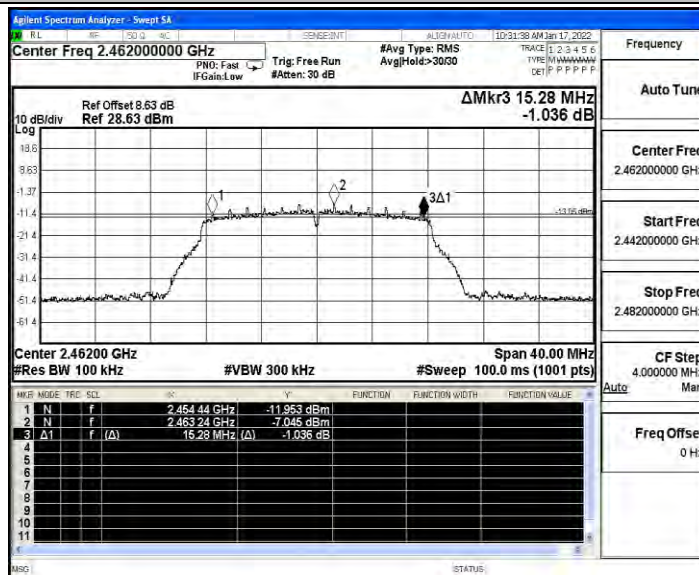
11G_Ant0_2412



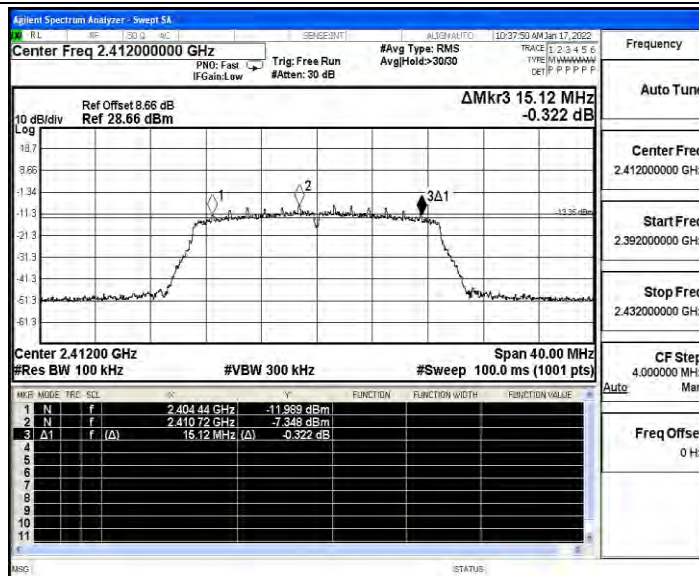
11G_Ant0_2437



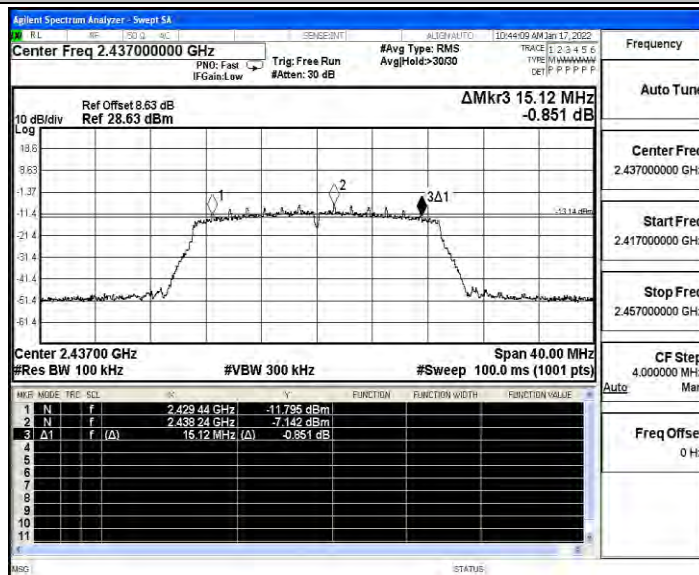
11G_Ant0_2462



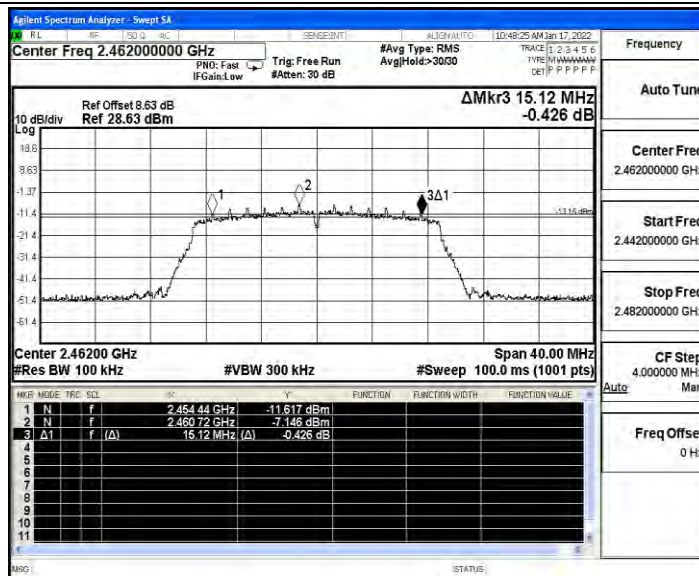
11N20SISO_Ant0_2412



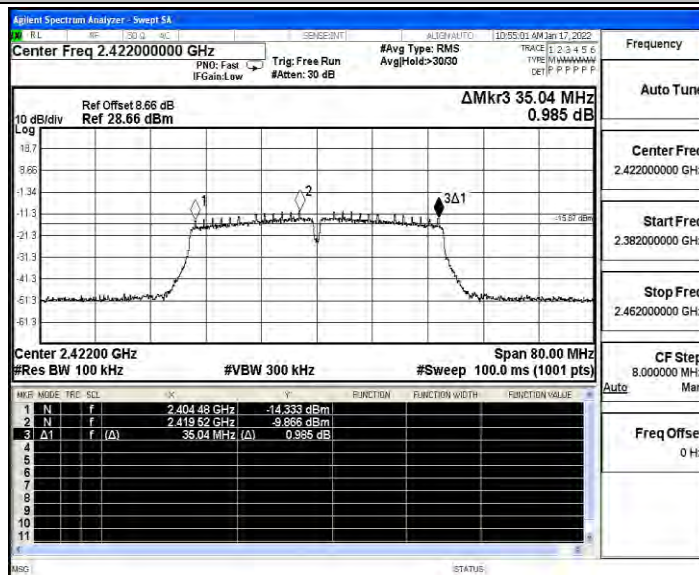
11N20SISO_Ant0_2437



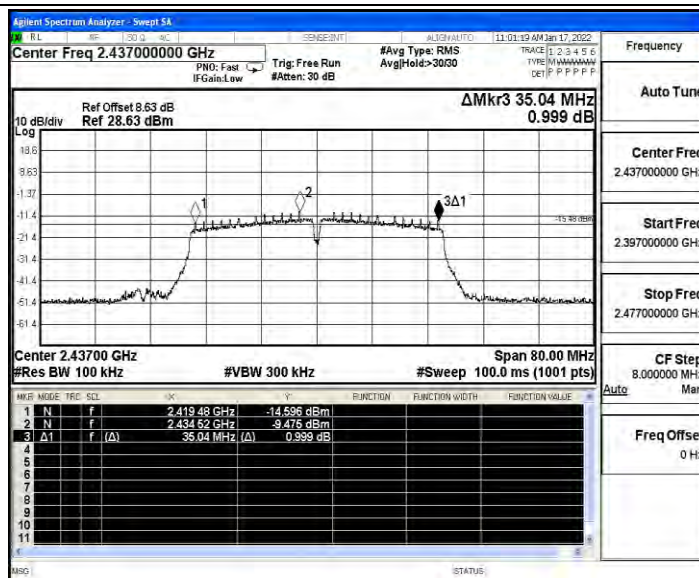
11N20SISO_Ant0_2462



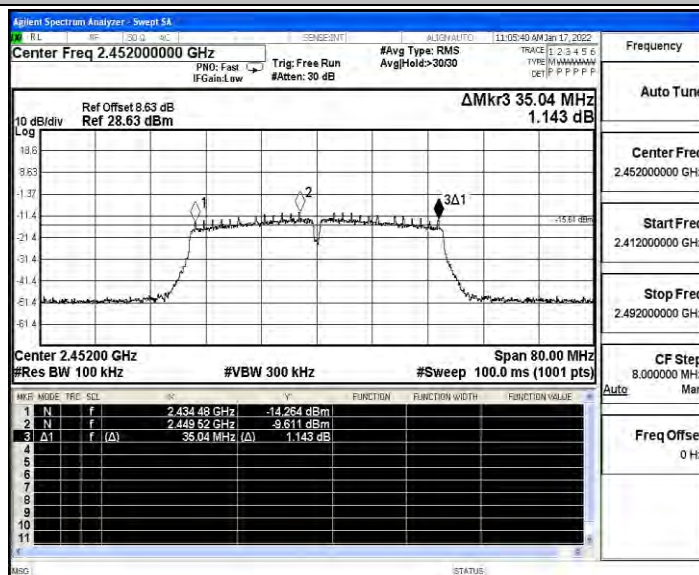
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452





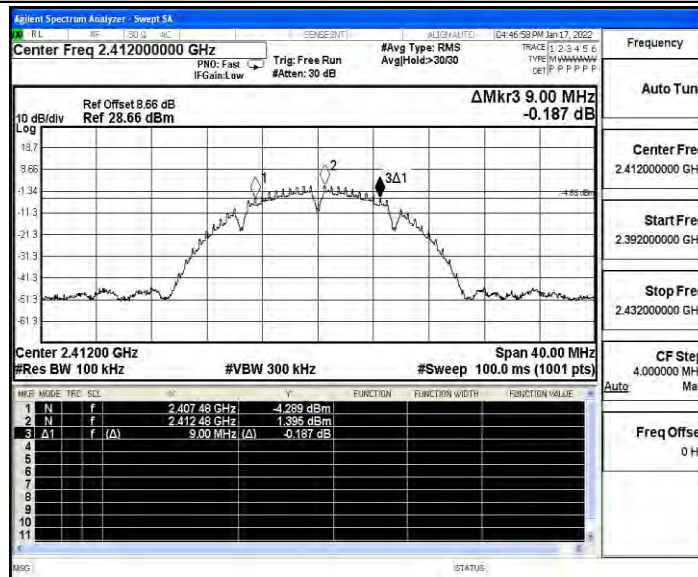
ANT1

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	9.000	2407.480	2416.480	0.5	PASS
		2437	9.000	2432.480	2441.480	0.5	PASS
		2462	9.000	2457.480	2466.480	0.5	PASS
11G	Ant0	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.320	2429.240	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant0	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant0	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

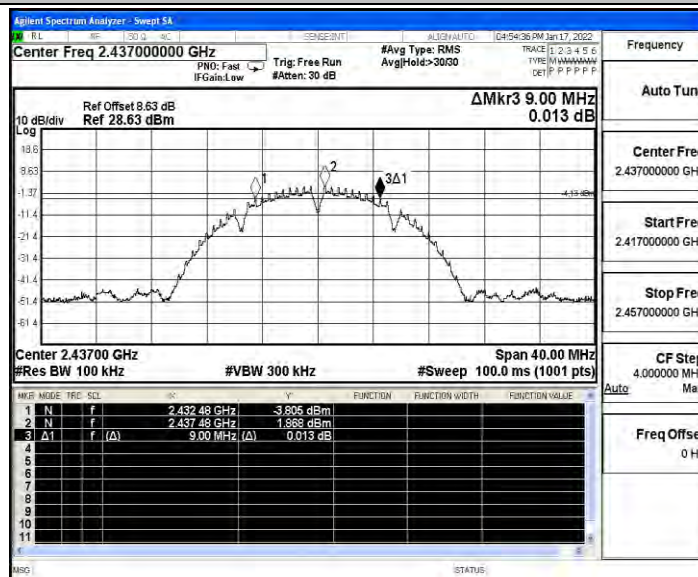


Test Graphs

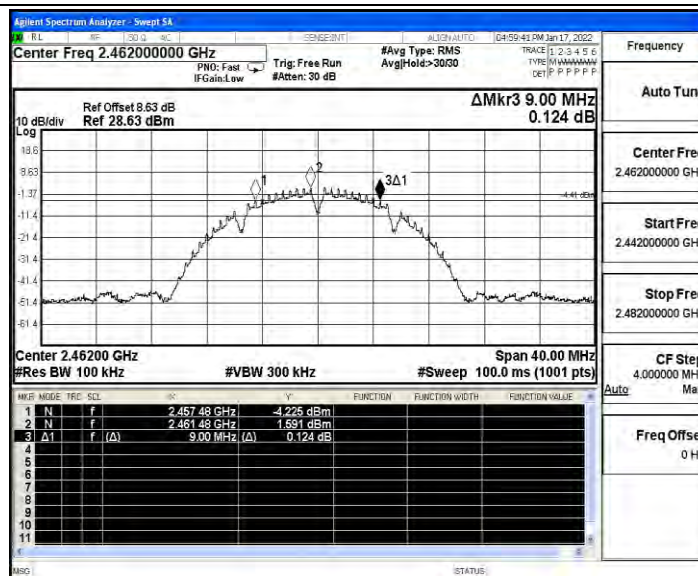
11B_Ant0_2412



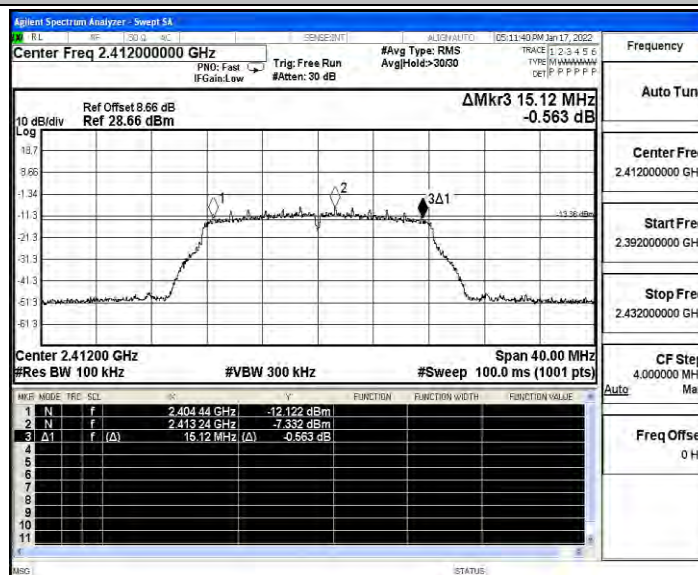
11B_Ant0_2437



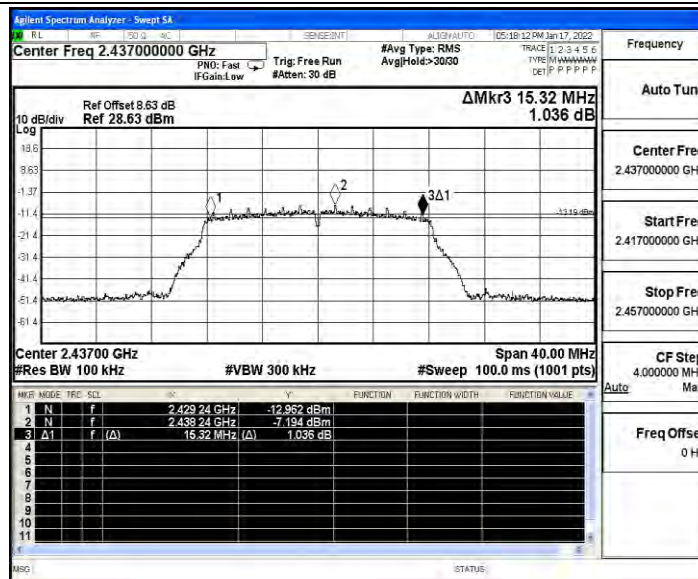
11B_Ant0_2462



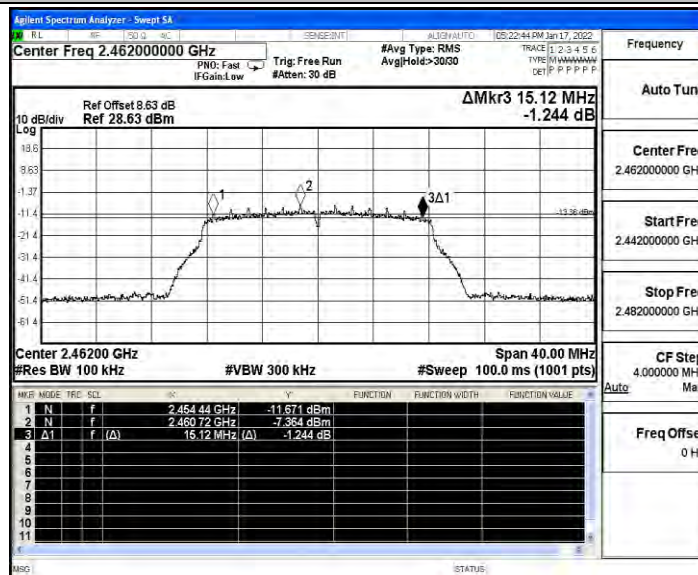
11G_Ant0_2412



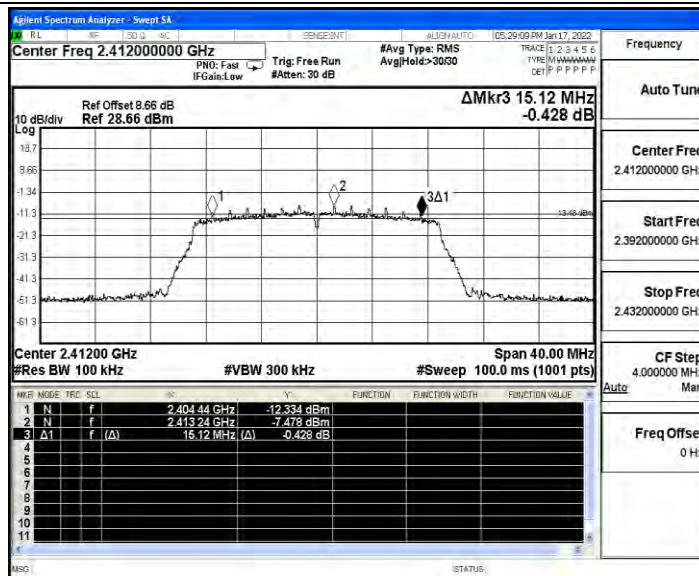
11G_Ant0_2437



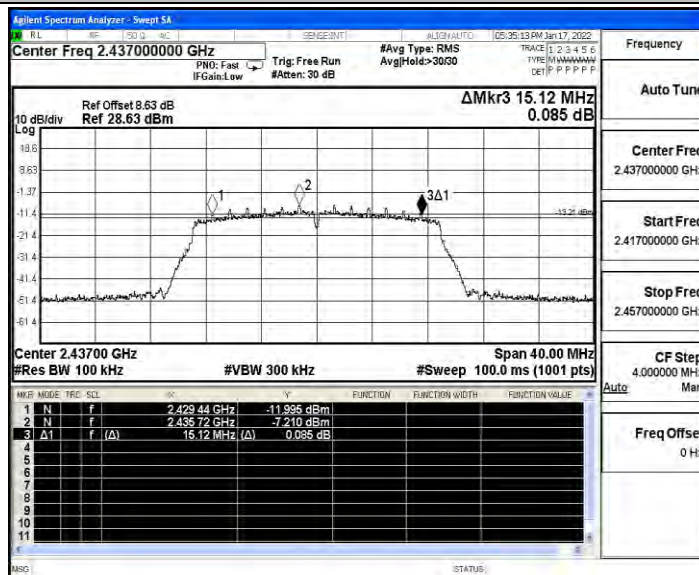
11G_Ant0_2462



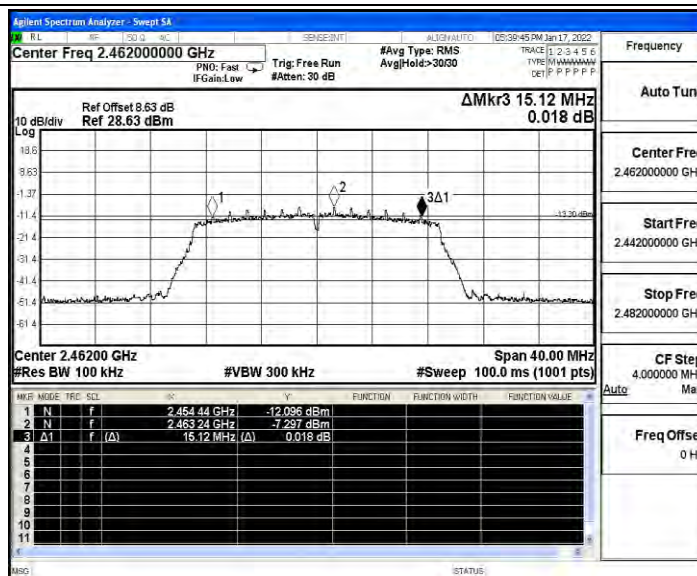
11N20SISO_Ant0_2412



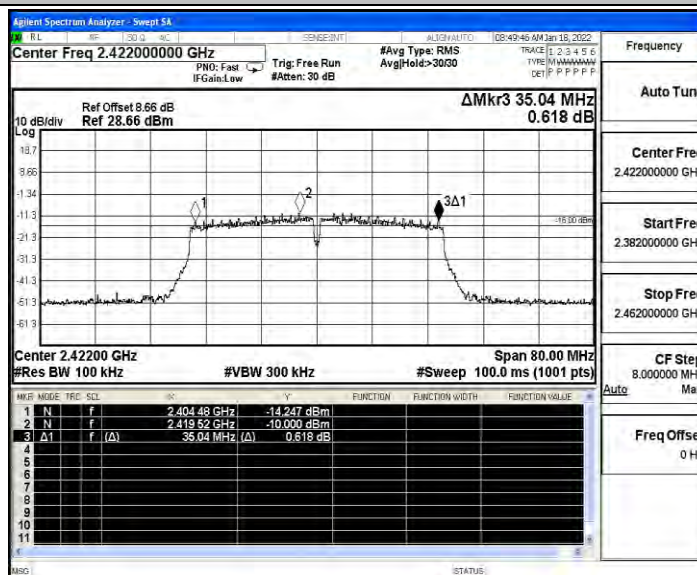
11N20SISO_Ant0_2437



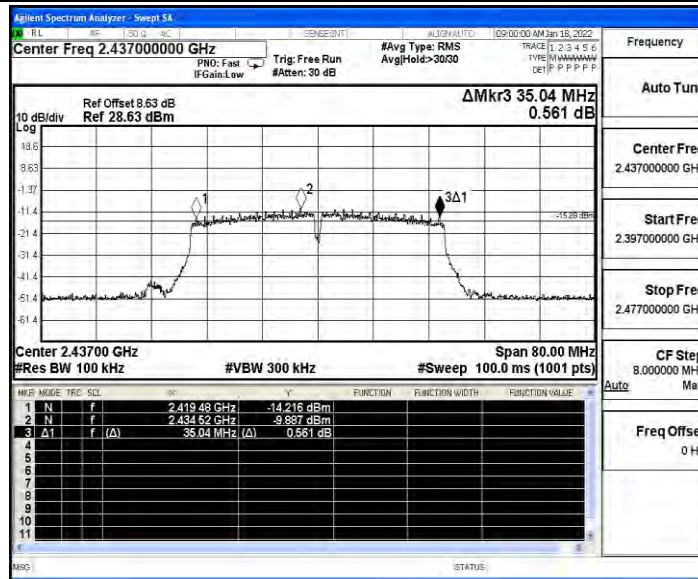
11N20SISO_Ant0_2462



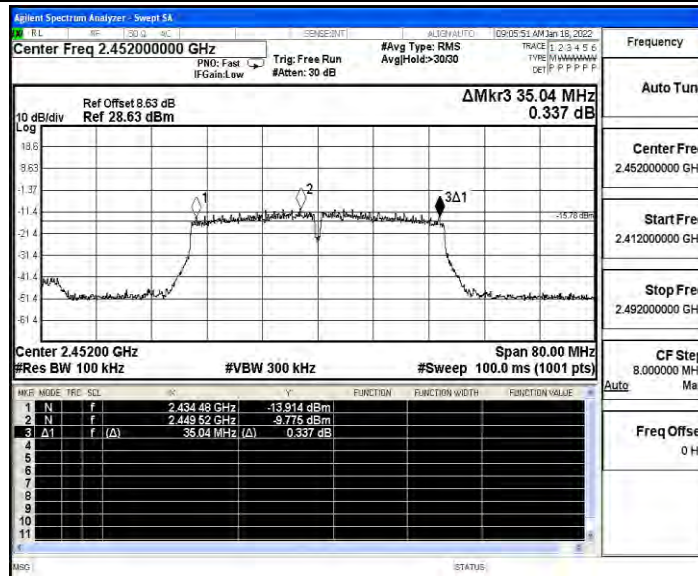
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452





C.2 Maximum conducted output power

Test Result

Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	2412	13.25	12.66	/	30	PASS
	2437	13.76	13.08	/	30	PASS
	2462	13.58	12.80	/	30	PASS
11G	2412	11.27	11.32	/	30	PASS
	2437	11.46	11.45	/	30	PASS
	2462	11.58	11.45	/	30	PASS
11N20	2412	11.12	11.15	14.15	30	PASS
	2437	11.37	11.33	14.36	30	PASS
	2462	11.38	11.37	14.39	30	PASS
11N40	2422	11.53	11.80	14.68	30	PASS
	2437	11.72	11.90	14.82	30	PASS
	2452	11.74	12.04	14.90	30	PASS



C.3 Maximum power spectral density

Test Result

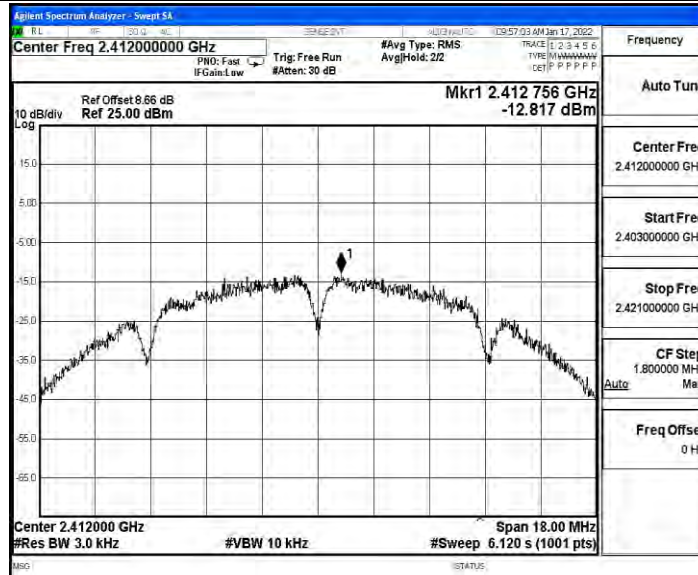
Mode	Channel	PSD Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	MIMO		
11B	2412	-12.82	-13.92	/	8	PASS
	2437	-9.99	-13.09	/	8	PASS
	2462	-12.67	-13.21	/	8	PASS
11G	2412	-19.49	-22.17	/	8	PASS
	2437	-19.15	-21.65	/	8	PASS
	2462	-21.39	-20.08	/	8	PASS
11N20	2412	-21.78	-21.87	-18.81	8	PASS
	2437	-21.74	-21.44	-18.58	8	PASS
	2462	-21.1	-21.16	-18.12	8	PASS
11N40	2422	-23.26	-24.88	-20.98	8	PASS
	2437	-23.31	-25.47	-21.25	8	PASS
	2452	-23.96	-24.65	-21.28	8	PASS



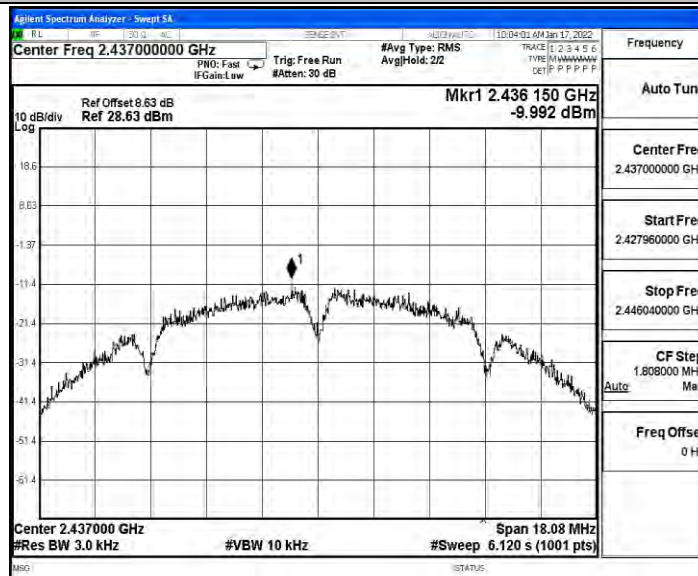
ANTO

Test Graphs

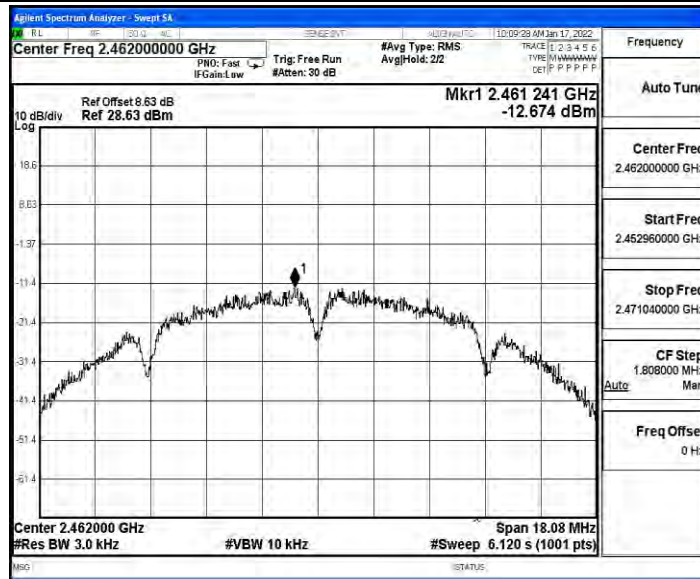
11B_Ant0_2412



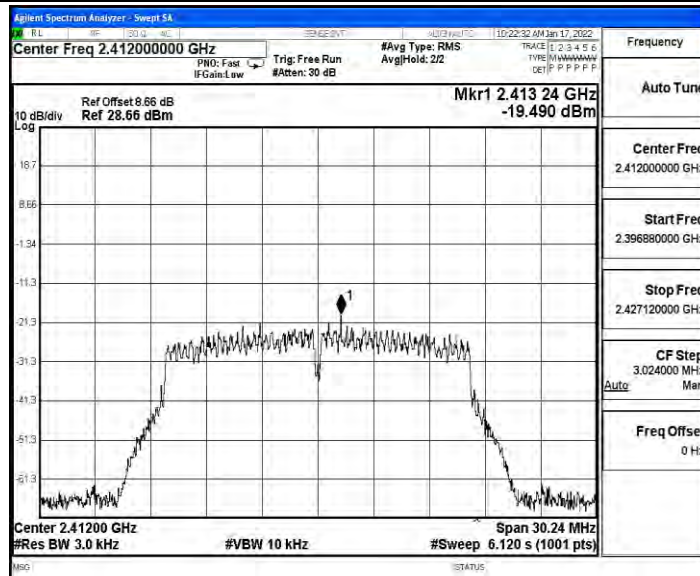
11B_Ant0_2437



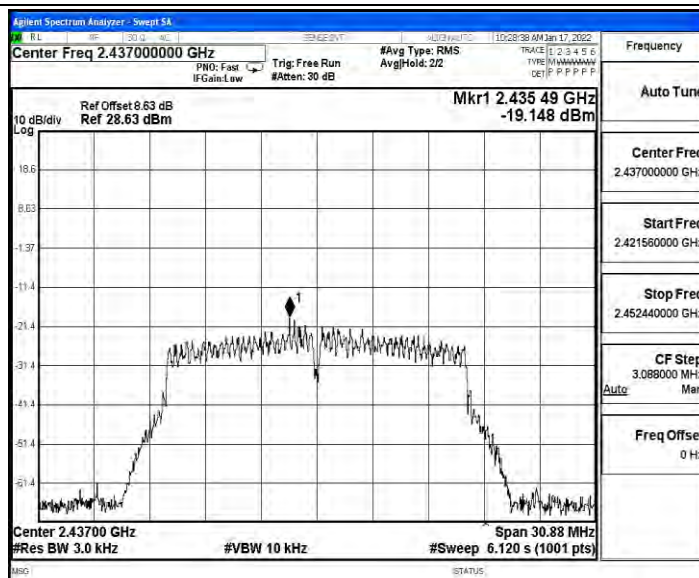
11B_Ant0_2462



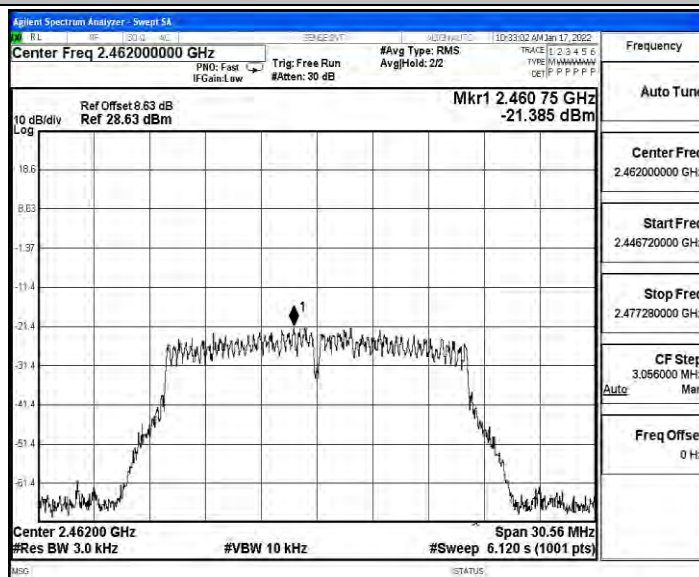
11G_Ant0_2412



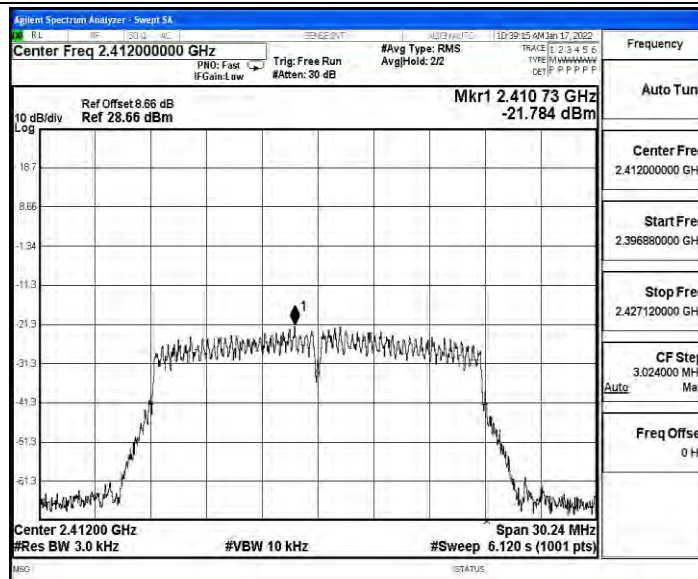
11G_Ant0_2437



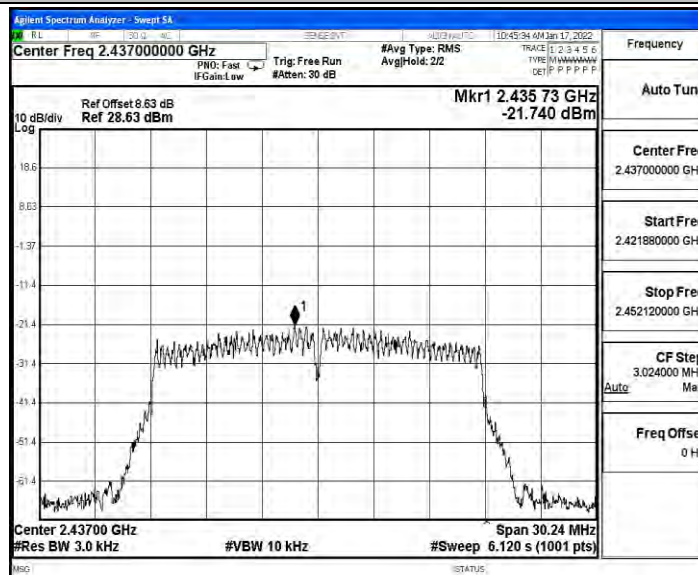
11G_Ant0_2462



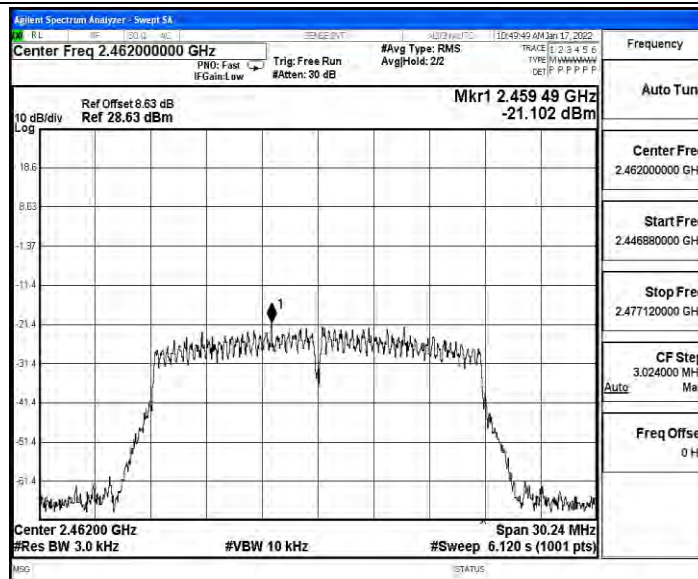
11N20SISO_Ant0_2412



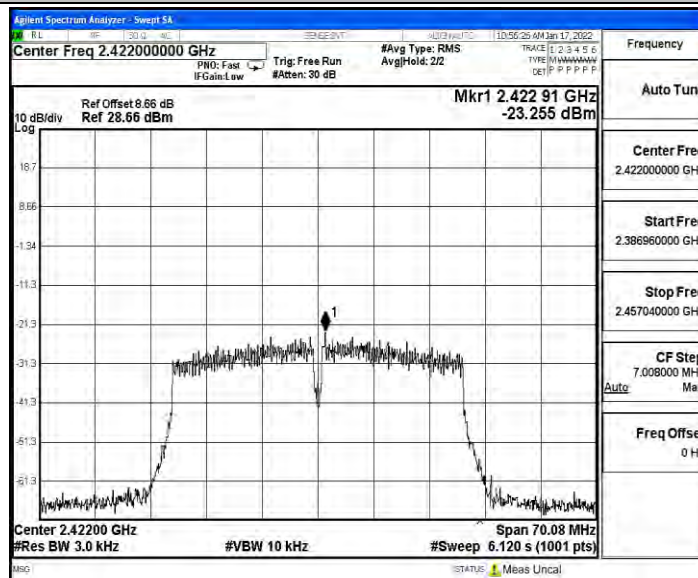
11N20SISO_Ant0_2437



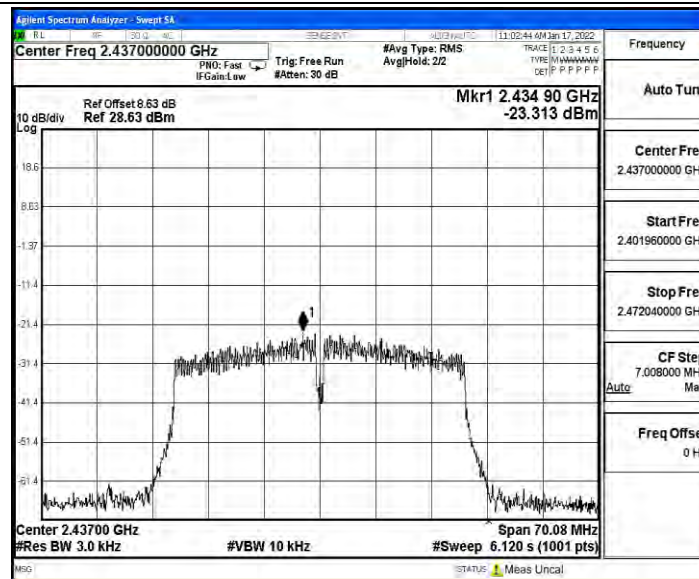
11N20SISO_Ant0_2462



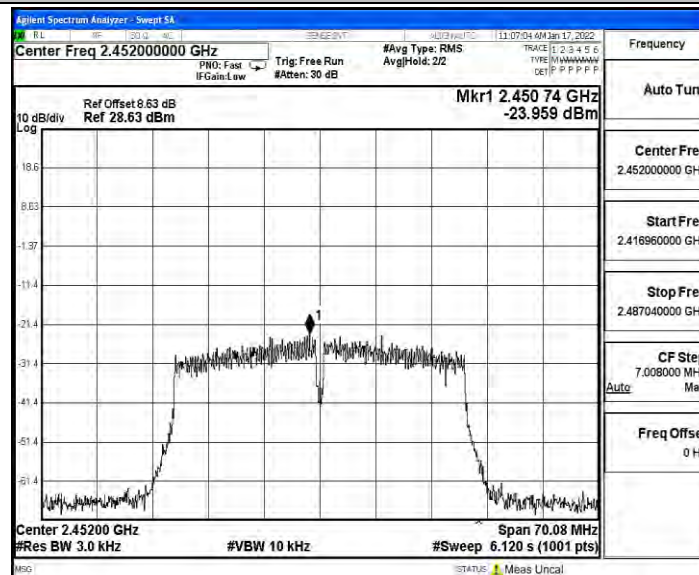
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452

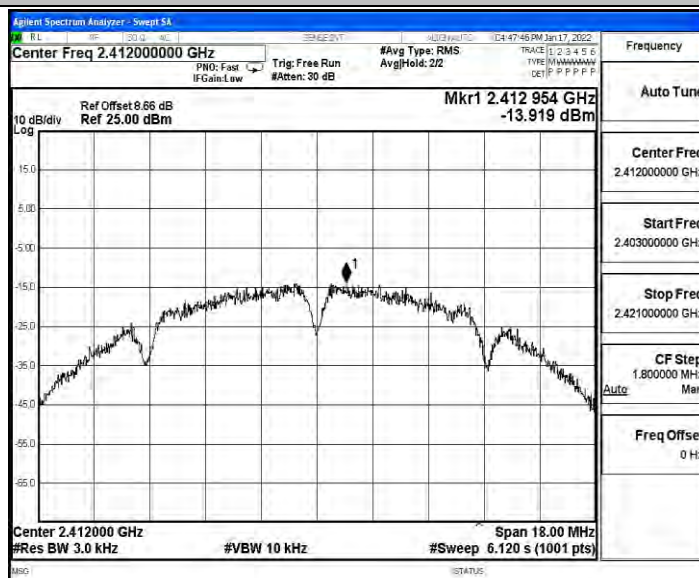




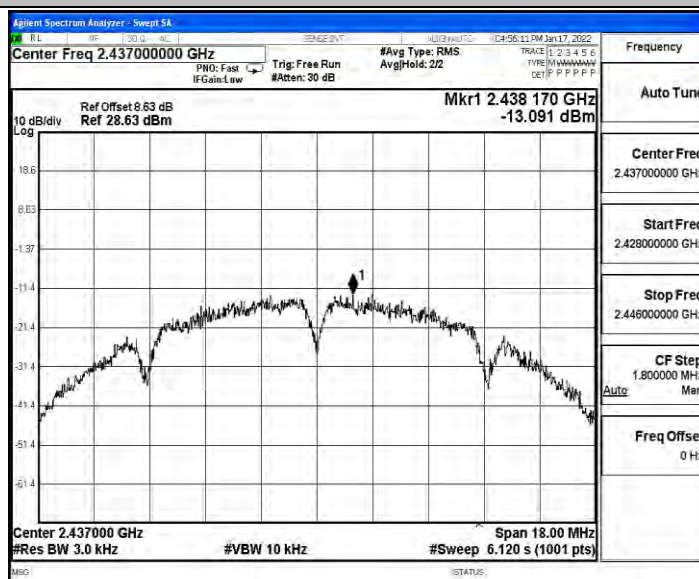
ANT1

Test Graphs

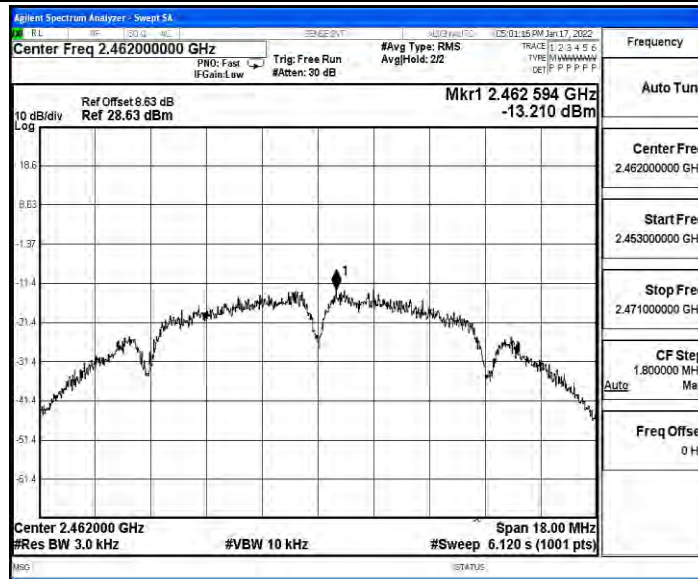
11B_Ant1_2412



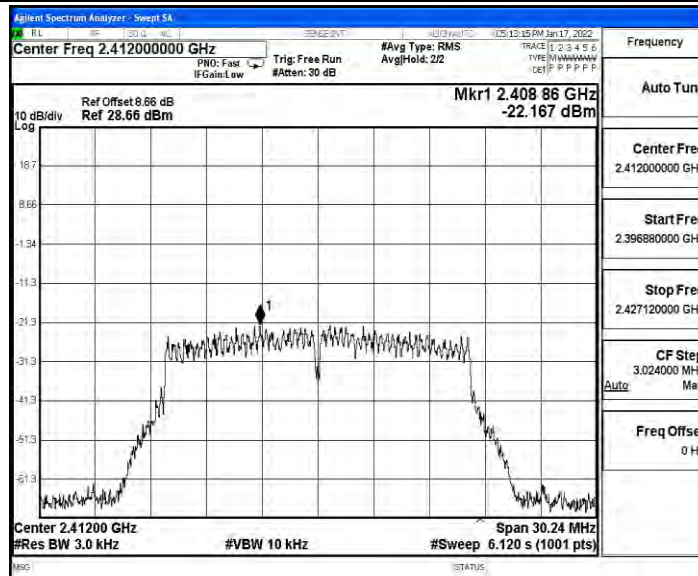
11B_Ant1_2437



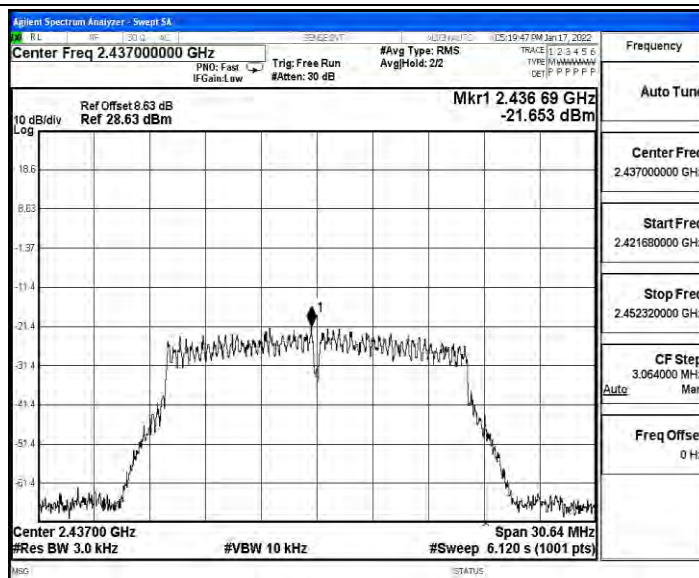
11B_Ant1_2462



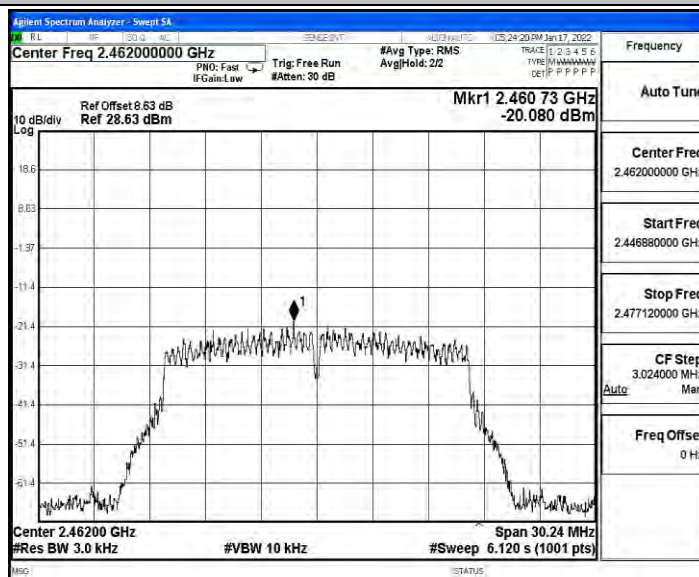
11G_Ant1_2412



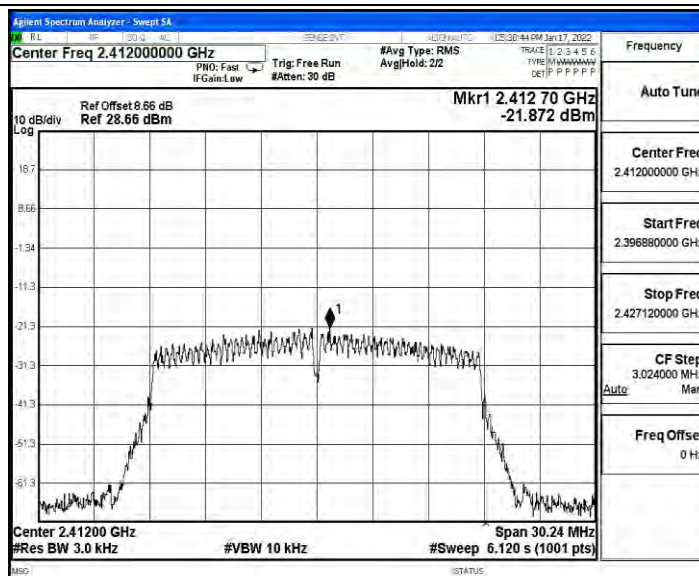
11G_Ant1_2437



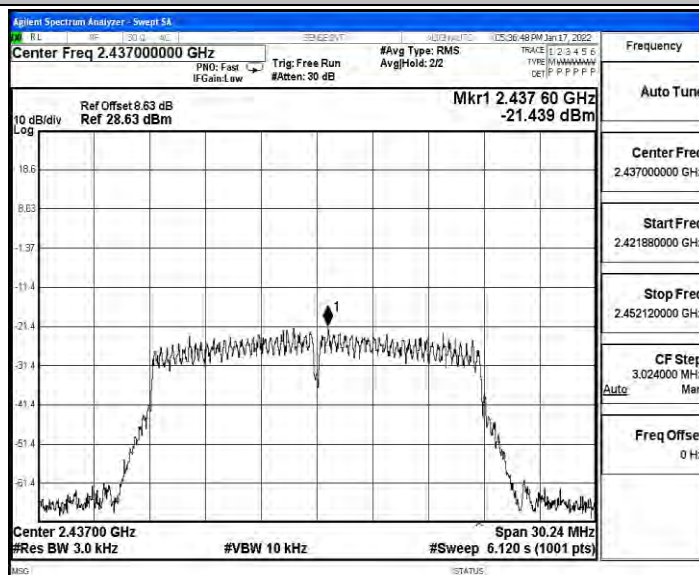
11G_Ant1_2462



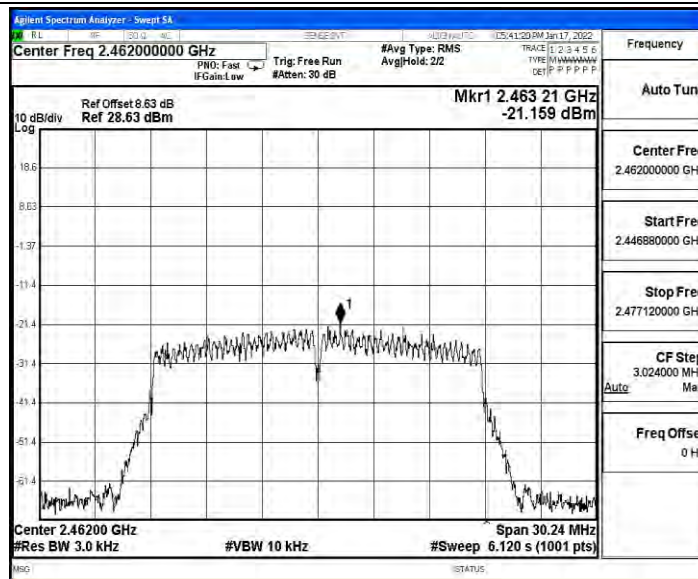
11N20SISO_Ant1_2412



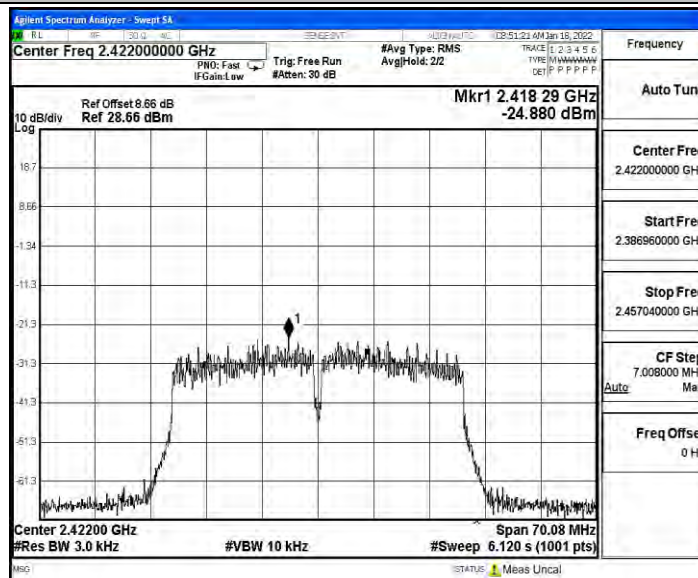
11N20SISO_Ant1_2437



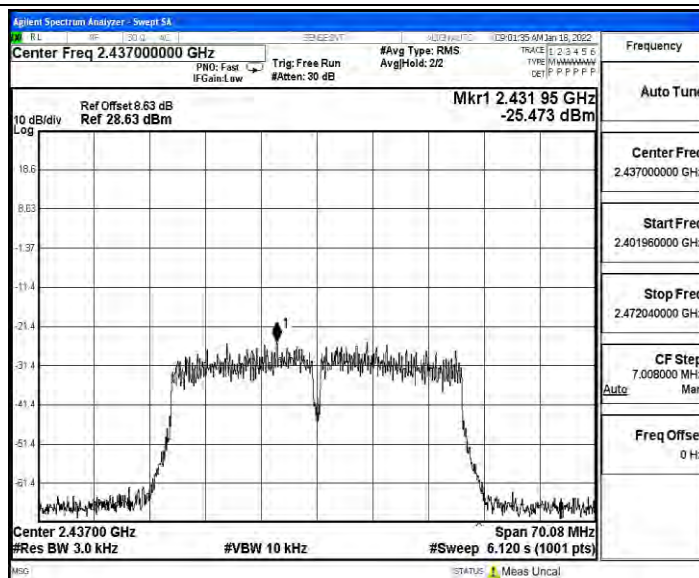
11N20SISO_Ant1_2462



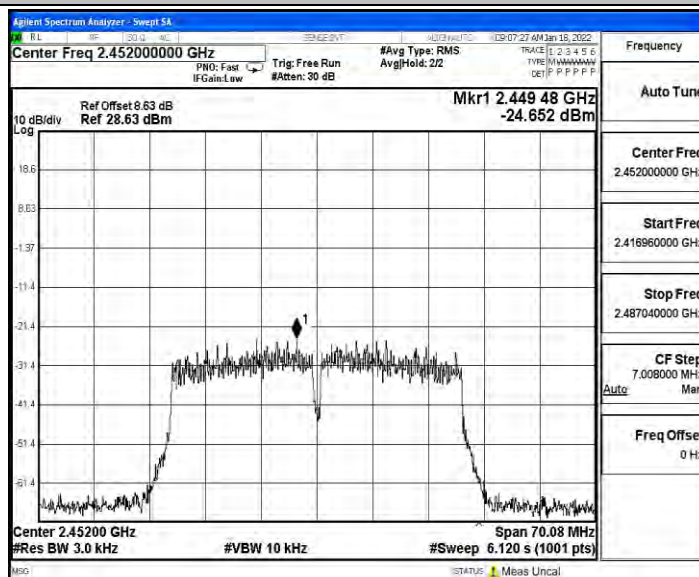
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





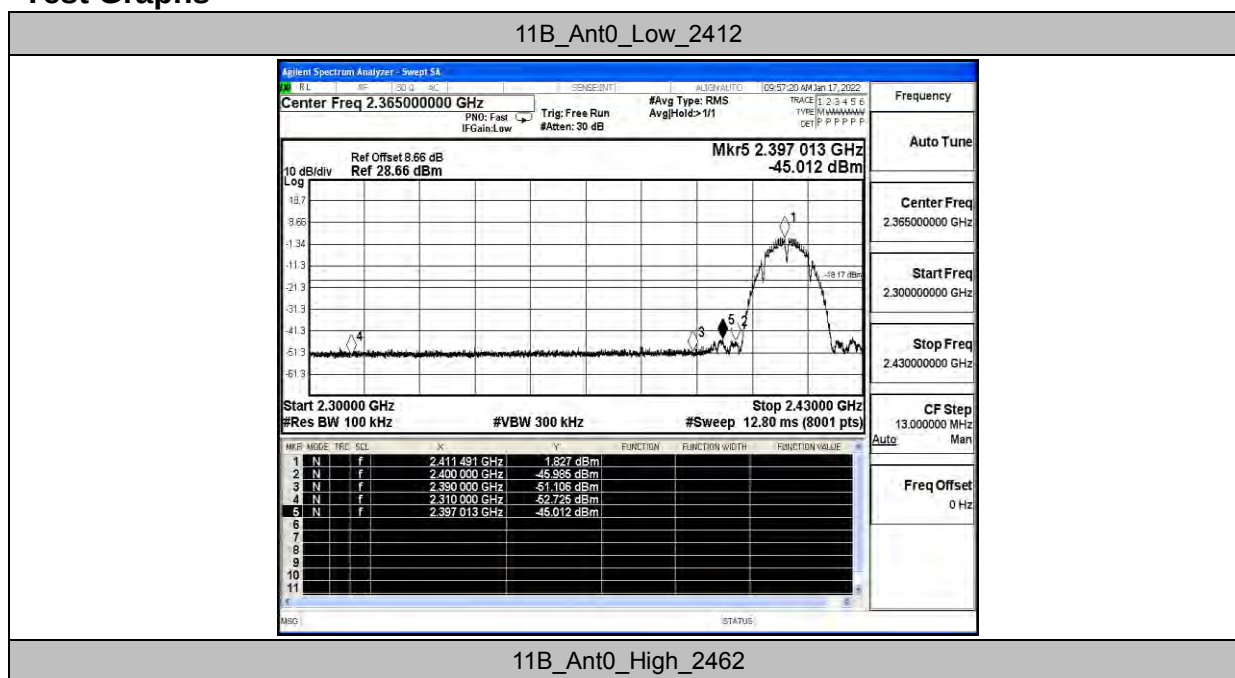
C.4 Band edge measurements

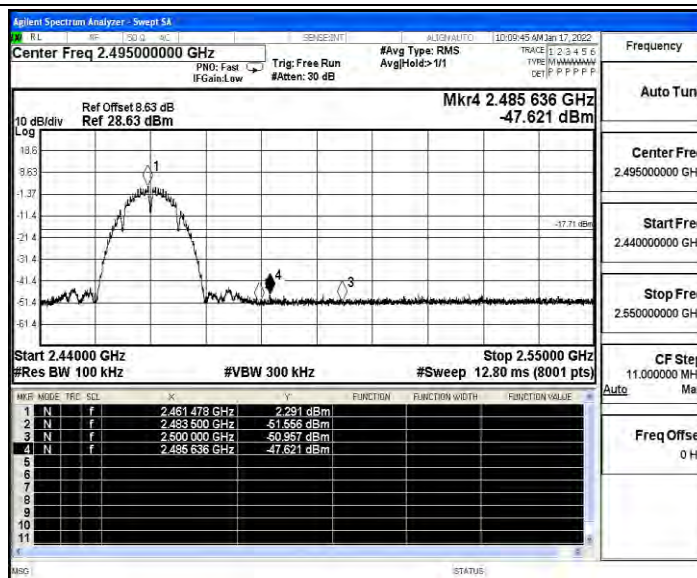
Test Result

ANT0

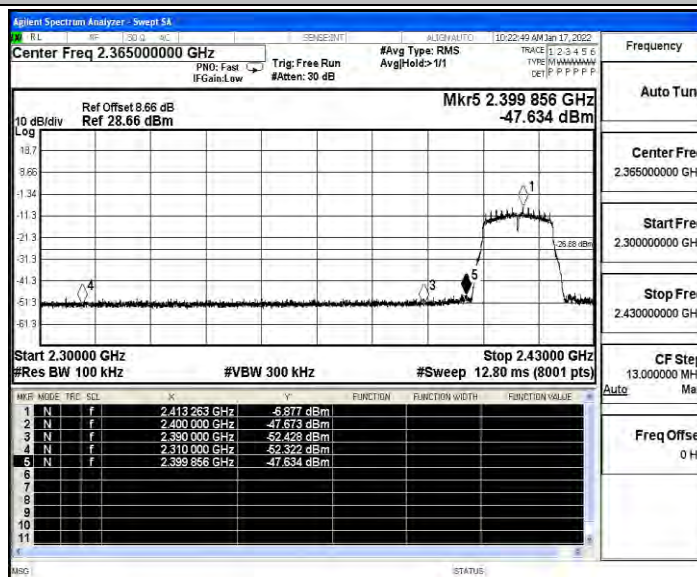
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	1.83	-45.01	≤ -18.17	PASS
		High	2462	2.29	-47.62	≤ -17.71	PASS
11G	Ant0	Low	2412	-6.88	-47.63	≤ -26.88	PASS
		High	2462	-6.59	-47.89	≤ -26.59	PASS
11N20SISO	Ant0	Low	2412	-6.84	-48.23	≤ -26.84	PASS
		High	2462	-6.63	-47.91	≤ -26.63	PASS
11N40SISO	Ant0	Low	2422	-9.71	-46.56	≤ -29.71	PASS
		High	2452	-9.56	-47.81	≤ -29.56	PASS

Test Graphs

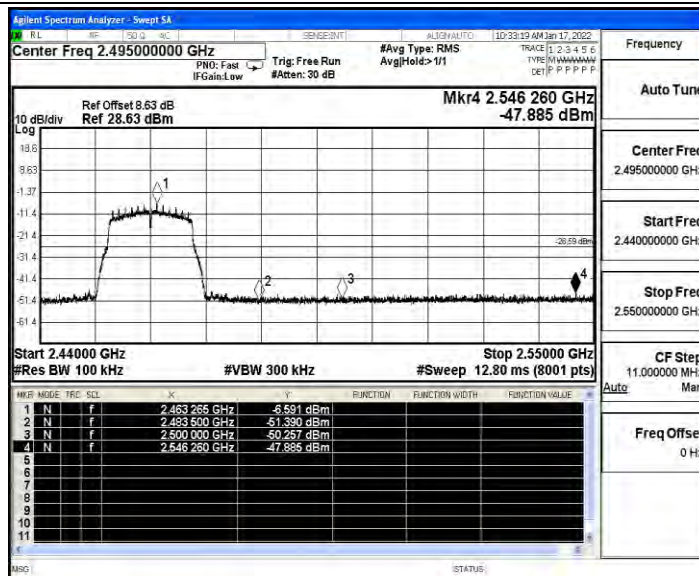




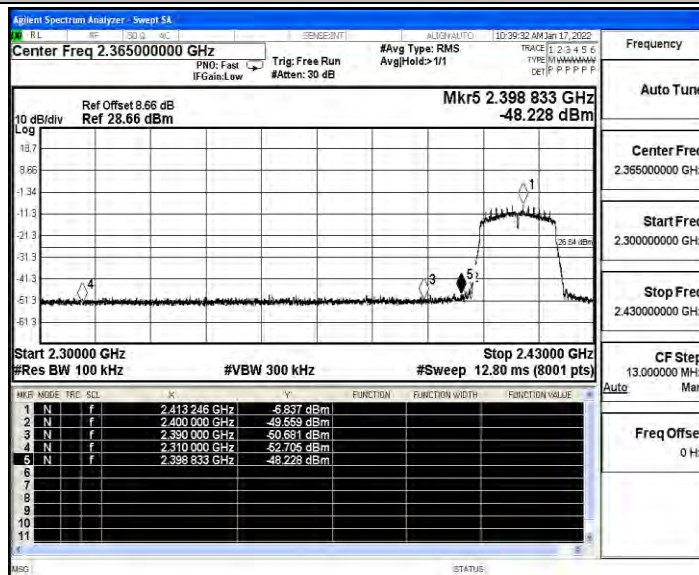
11G_Ant0_Low_2412



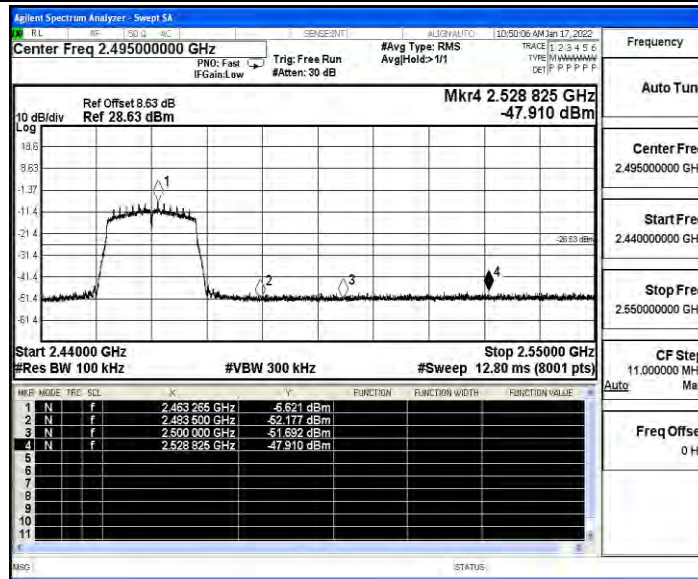
11G_Ant0_High_2462



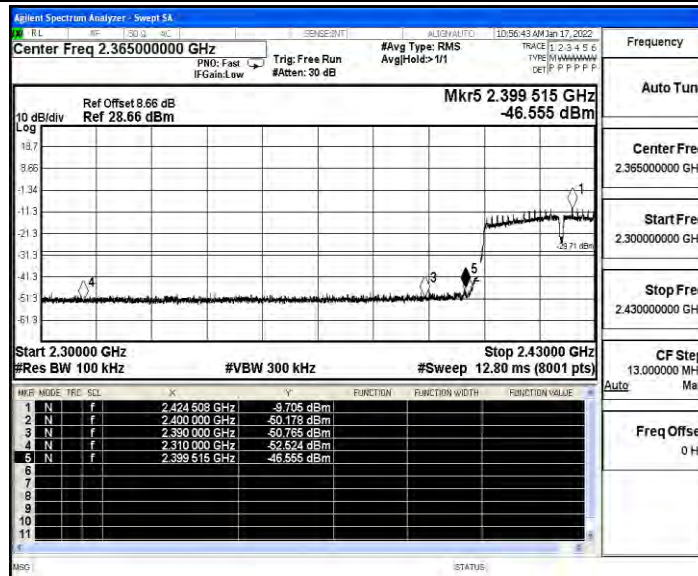
11N20SISO_Ant0_Low_2412



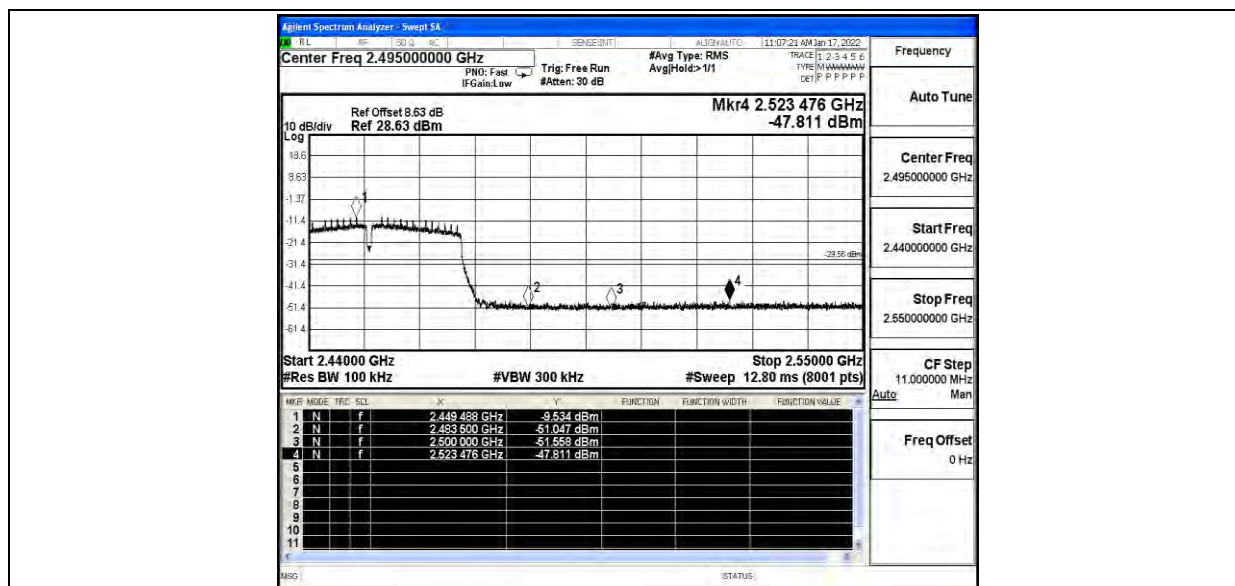
11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422



11N40SISO_Ant0_High_2452

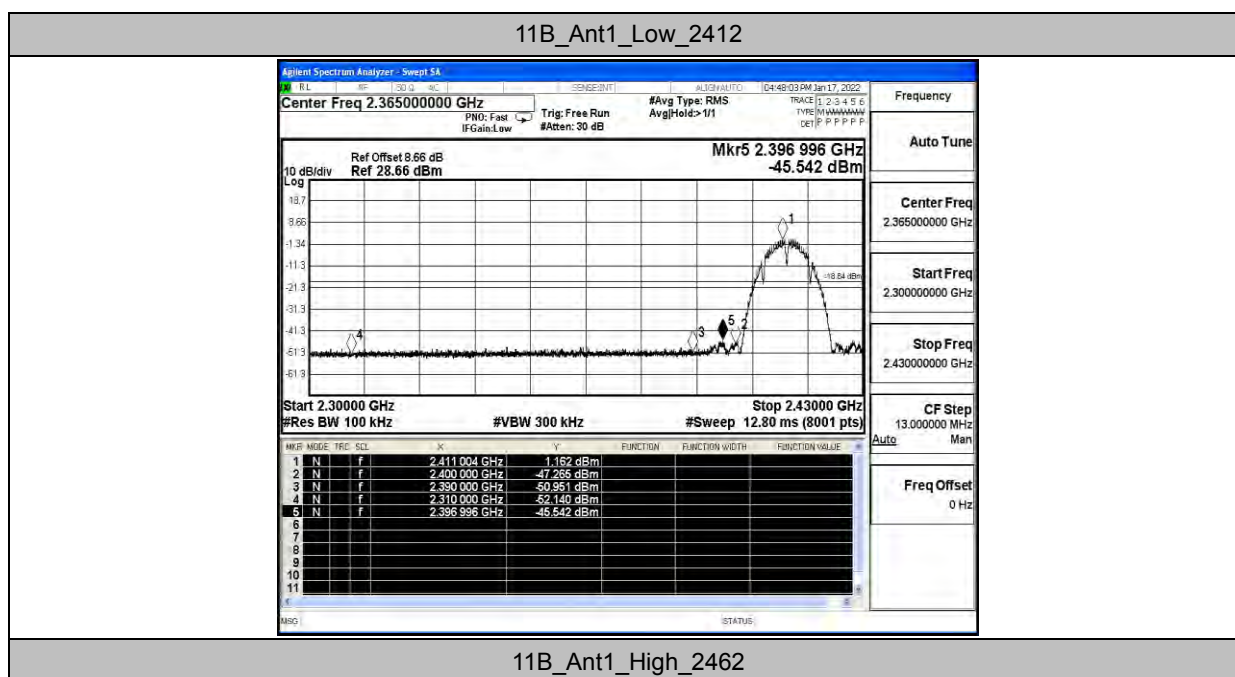


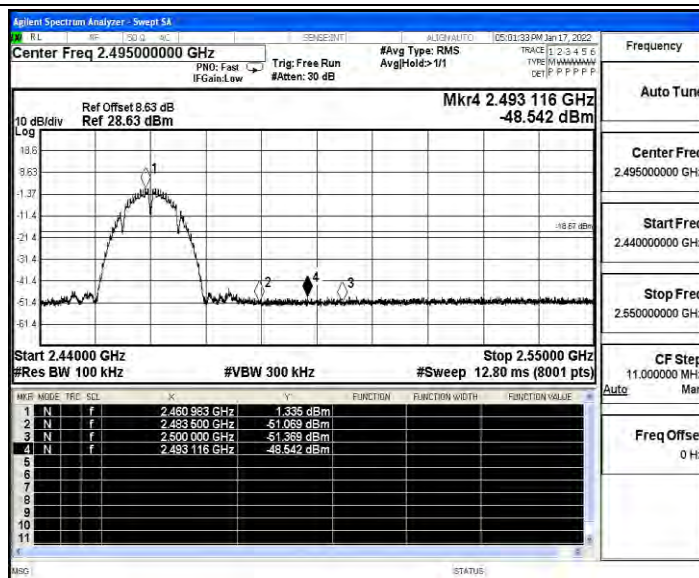


ANT1

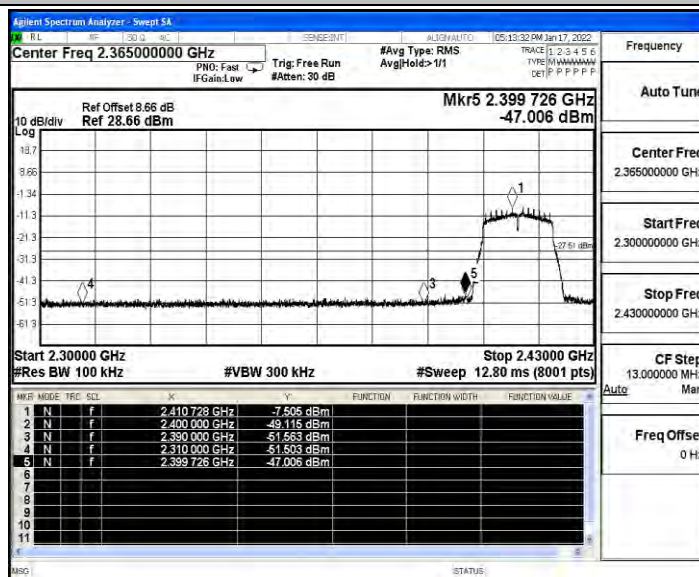
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.16	-45.54	≤-18.84	PASS
		High	2462	1.34	-48.54	≤-18.67	PASS
11G	Ant1	Low	2412	-7.51	-47.01	≤-27.51	PASS
		High	2462	-6.82	-47.6	≤-26.82	PASS
11N20SISO	Ant1	Low	2412	-6.83	-47.5	≤-26.83	PASS
		High	2462	-7.20	-48.03	≤-27.2	PASS
11N40SISO	Ant1	Low	2422	-9.87	-46.91	≤-29.87	PASS
		High	2452	-9.74	-48.23	≤-29.74	PASS

Test Graphs

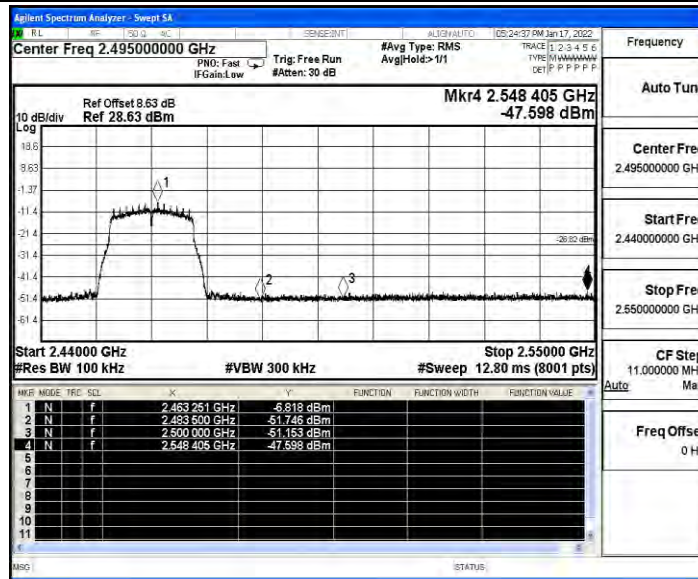




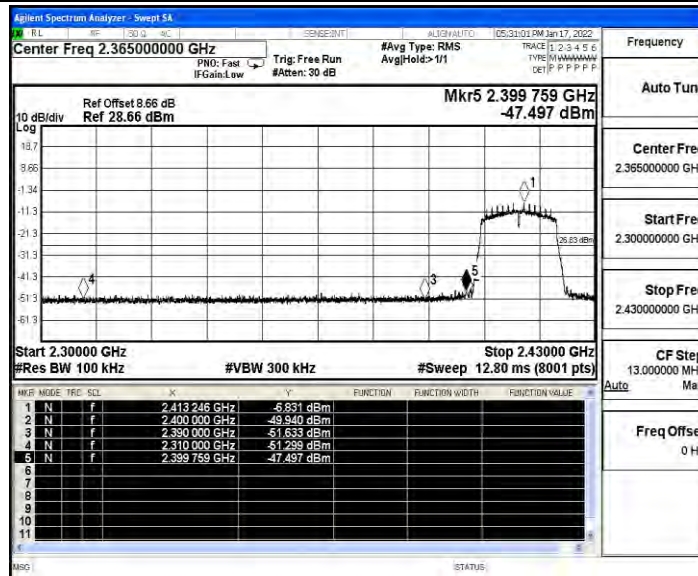
11G_Ant1_Low_2412



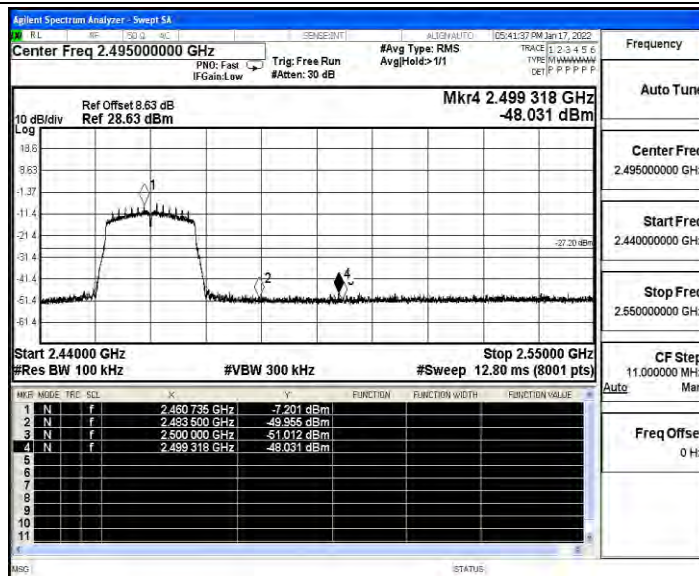
11G_Ant1_High_2462



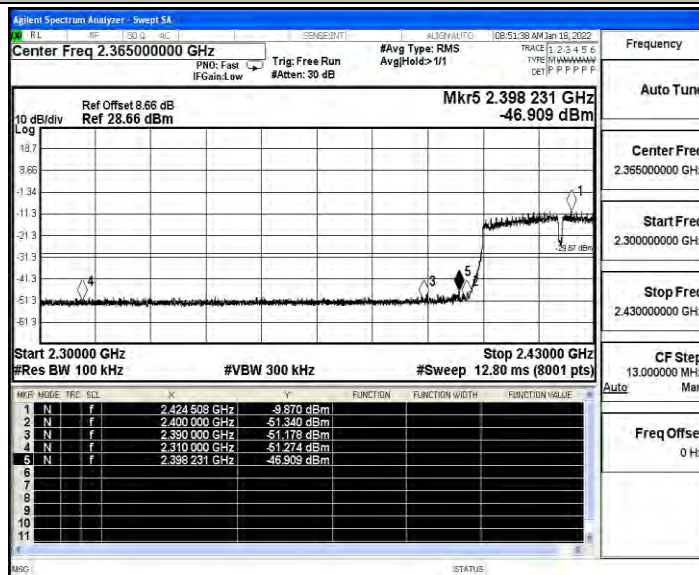
11N20SISO_Ant1_Low_2412



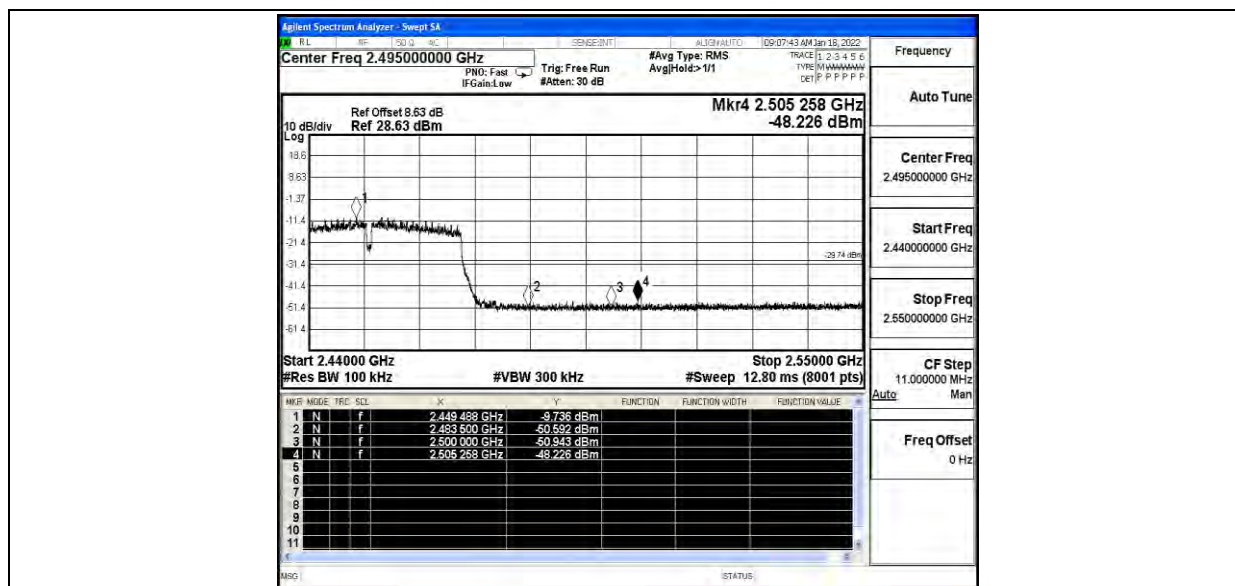
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





A.5 Conducted Spurious Emission

Test Result

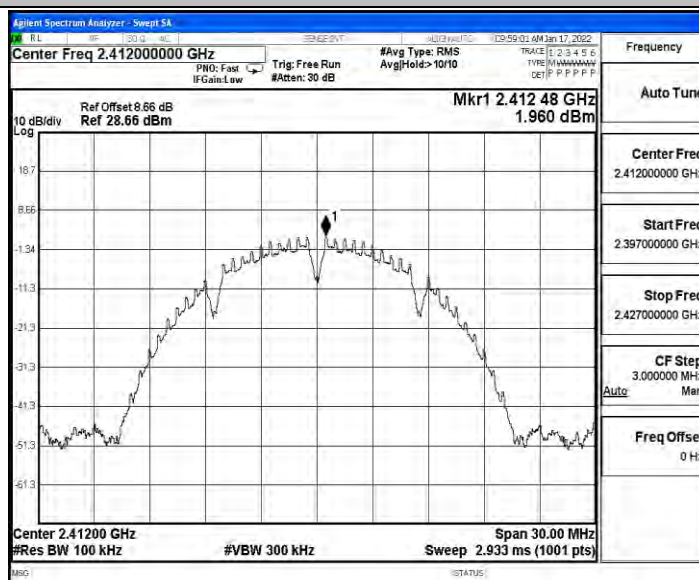
ANT0

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-60.47	≤ -18.04	PASS
			1000~26500	1.96	-46.24	≤ -18.04	PASS
		2437	Reference	2.60	2.60	---	PASS
			30~1000	2.60	-61.15	≤ -17.4	PASS
			1000~26500	2.60	-46.19	≤ -17.4	PASS
		2462	Reference	2.10	2.10	---	PASS
			30~1000	2.10	-60.95	≤ -17.9	PASS
			1000~26500	2.10	-45.93	≤ -17.9	PASS
11G	Ant0	2412	Reference	-7.35	-7.35	---	PASS
			30~1000	-7.35	-61	≤ -27.35	PASS
			1000~26500	-7.35	-46.25	≤ -27.35	PASS
		2437	Reference	-6.53	-6.53	---	PASS
			30~1000	-6.53	-60.59	≤ -26.53	PASS
			1000~26500	-6.53	-46.4	≤ -26.53	PASS
		2462	Reference	-7.08	-7.08	---	PASS
			30~1000	-7.08	-60.31	≤ -27.08	PASS
			1000~26500	-7.08	-46.22	≤ -27.08	PASS
11N20SISO	Ant0	2412	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-59.9	≤ -27	PASS
			1000~26500	-7.00	-46.26	≤ -27	PASS
		2437	Reference	-6.56	-6.56	---	PASS
			30~1000	-6.56	-60.42	≤ -26.56	PASS
			1000~26500	-6.56	-46.51	≤ -26.56	PASS
		2462	Reference	-7.03	-7.03	---	PASS
			30~1000	-7.03	-60.82	≤ -27.03	PASS
			1000~26500	-7.03	-46.12	≤ -27.03	PASS
11N40SISO	Ant0	2422	Reference	-9.75	-9.75	---	PASS
			30~1000	-9.75	-59.57	≤ -29.75	PASS
			1000~26500	-9.75	-45.98	≤ -29.75	PASS
		2437	Reference	-9.25	-9.25	---	PASS
			30~1000	-9.25	-59.88	≤ -29.25	PASS
			1000~26500	-9.25	-46.21	≤ -29.25	PASS
		2452	Reference	-9.50	-9.50	---	PASS
			30~1000	-9.50	-60.56	≤ -29.5	PASS
			1000~26500	-9.50	-45.82	≤ -29.5	PASS

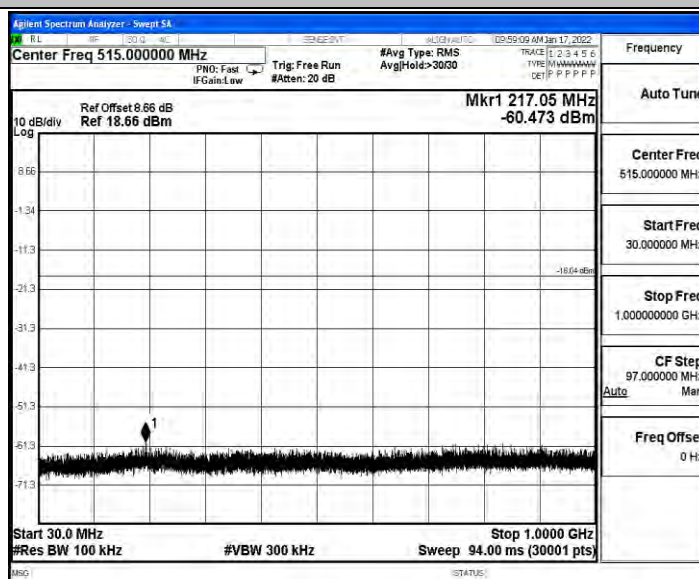


Test Graphs

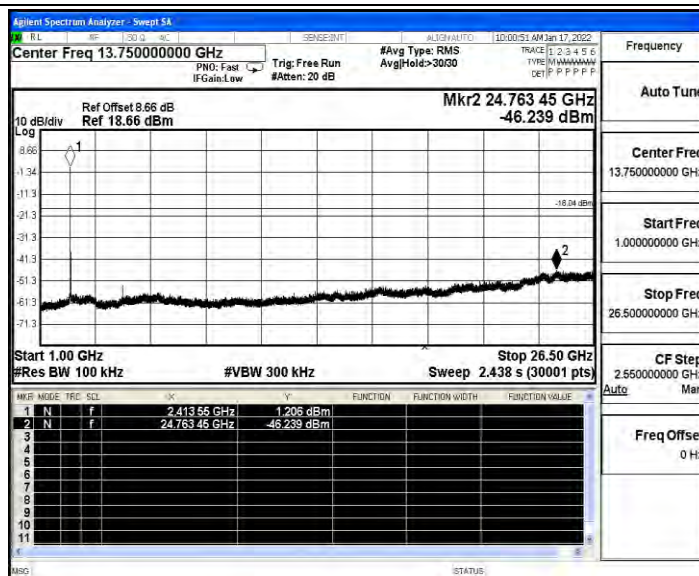
11B_Ant0_2412_0~Reference



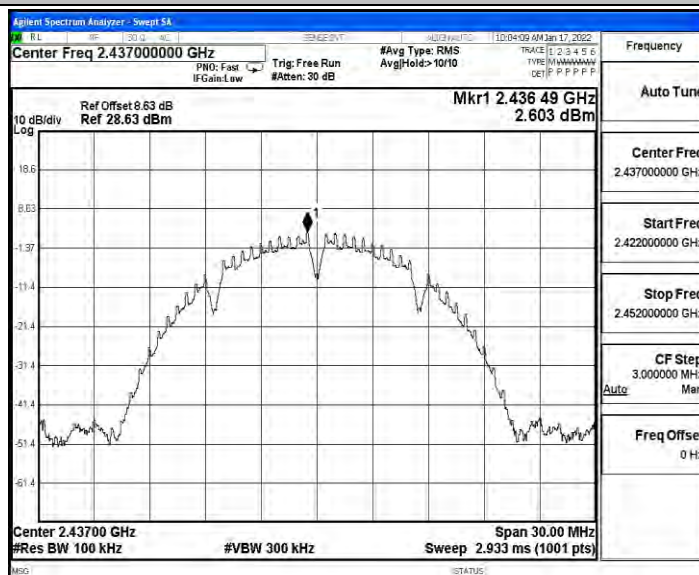
11B_Ant0_2412_30~1000



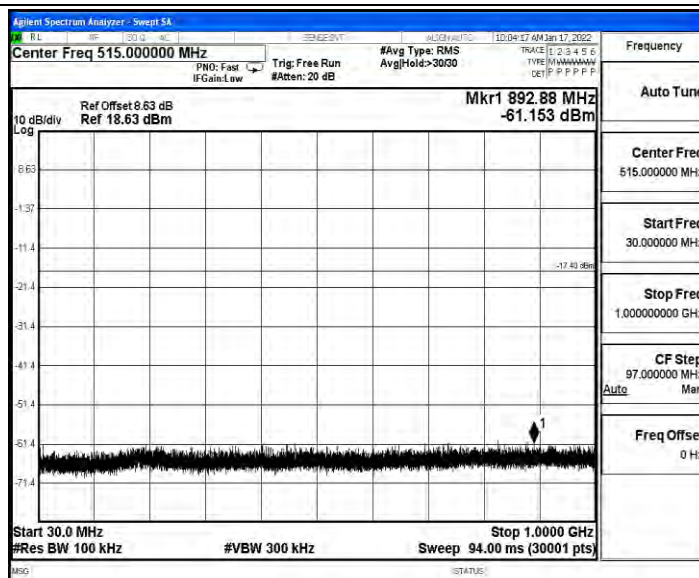
11B_Ant0_2412_1000~26500



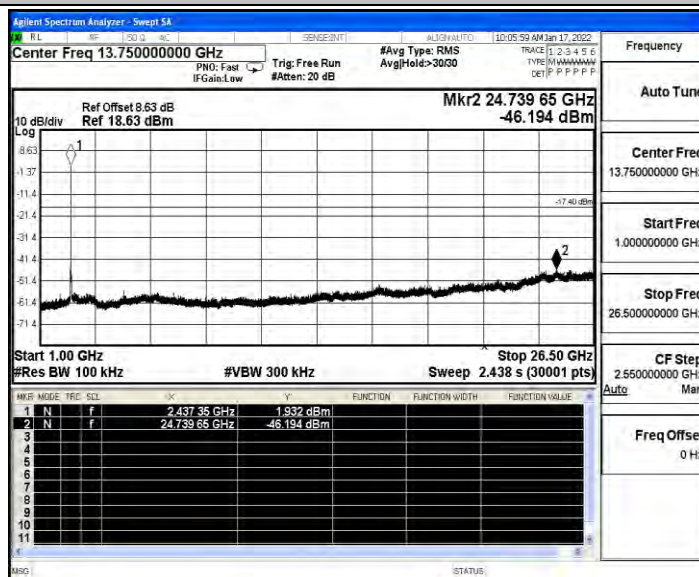
11B_Ant0_2437_0~Reference



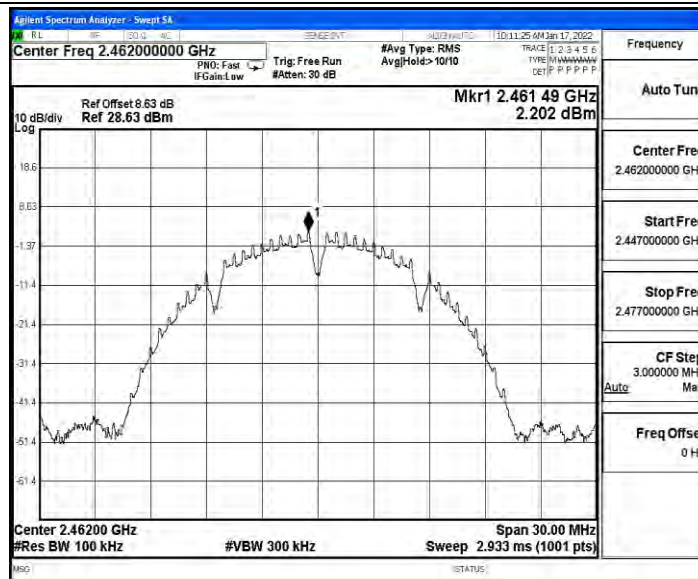
11B_Ant0_2437_30~1000



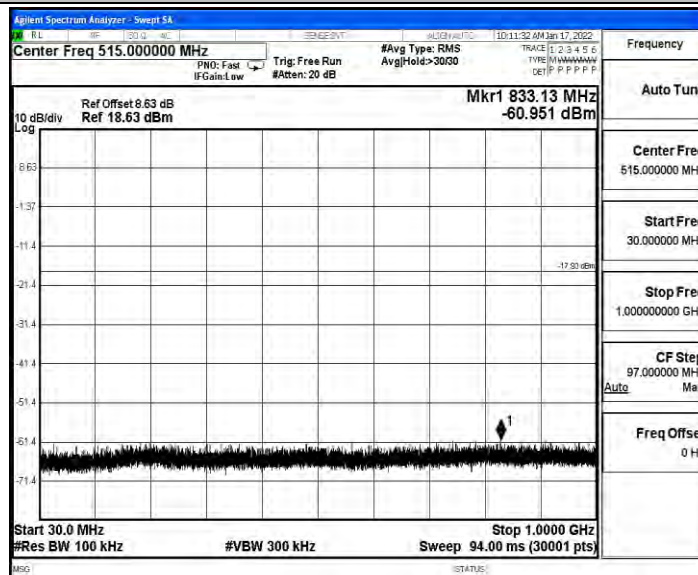
11B_Ant0_2437_1000~26500



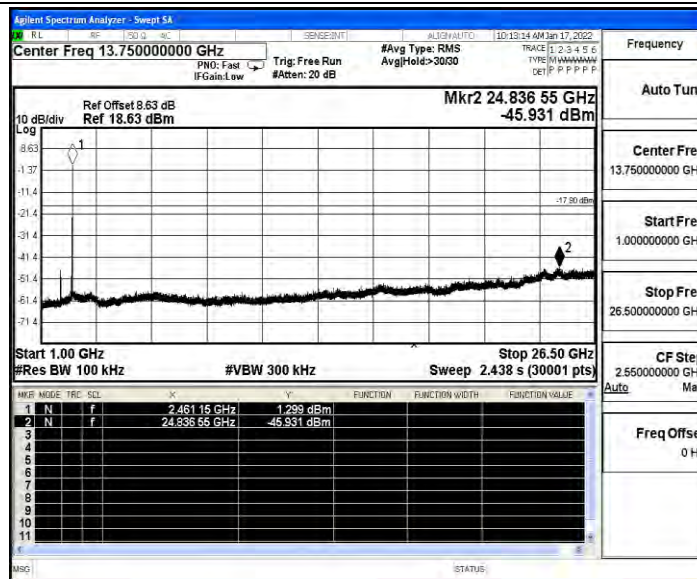
11B_Ant0_2462_0~Reference



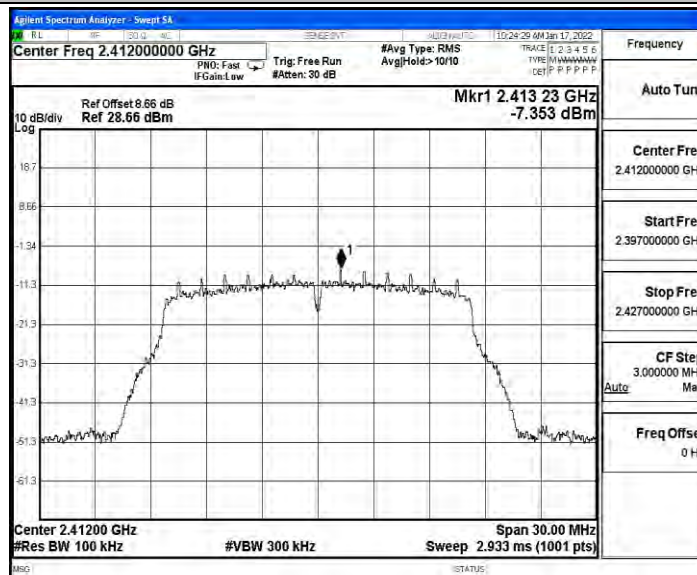
11B_Ant0_2462_30~1000



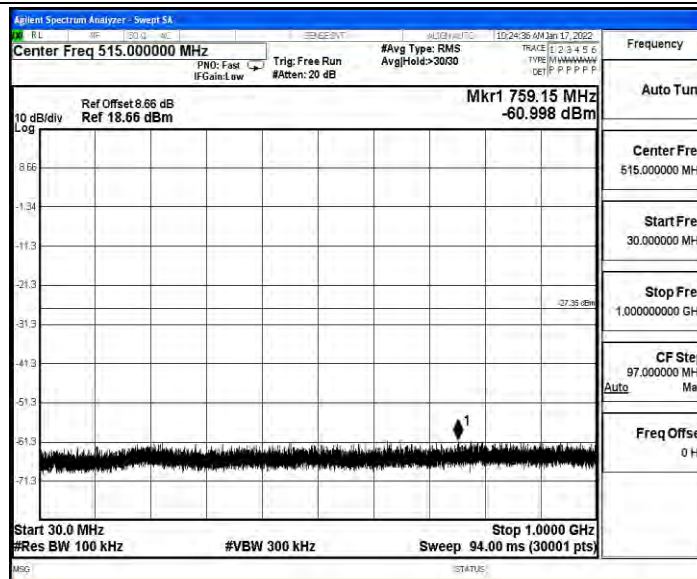
11B_Ant0_2462_1000~26500



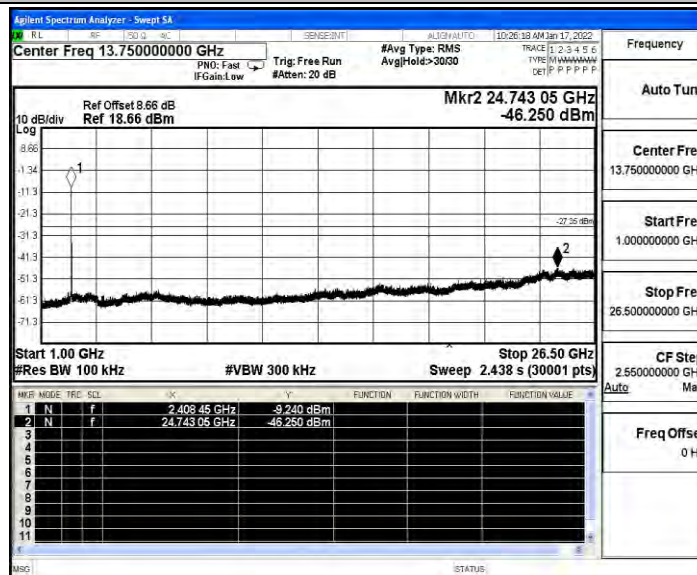
11G_Ant0_2412_0~Reference



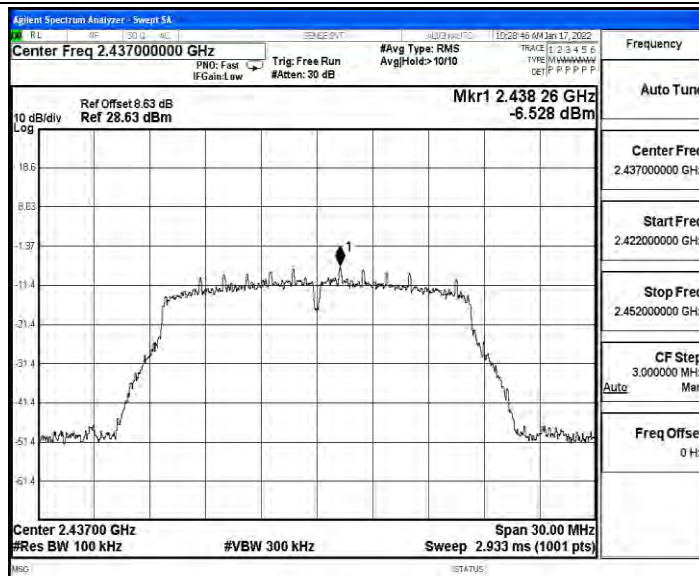
11G_Ant0_2412_30~1000



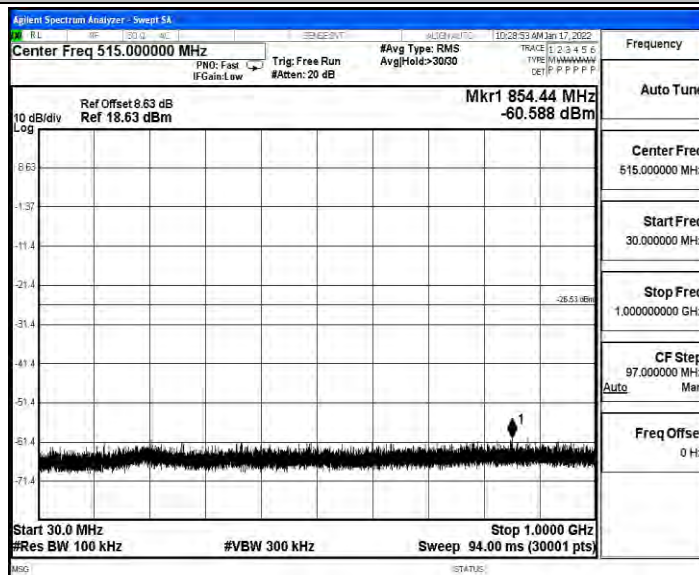
11G_Ant0_2412_1000~26500



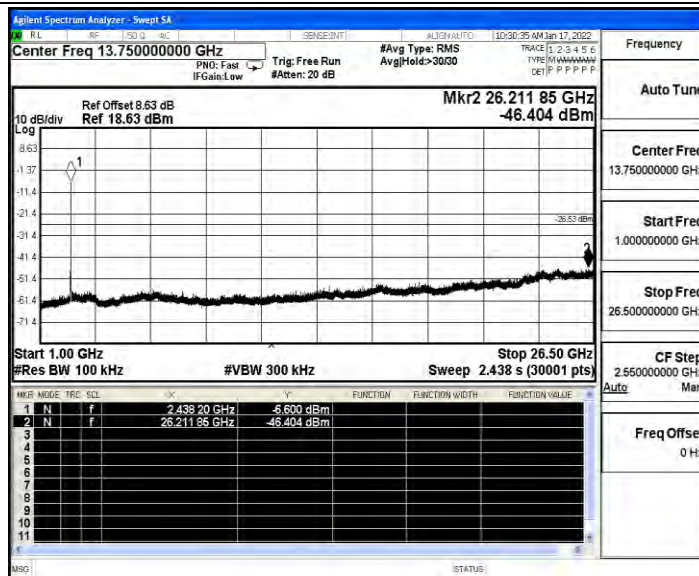
11G_Ant0_2437_0~Reference



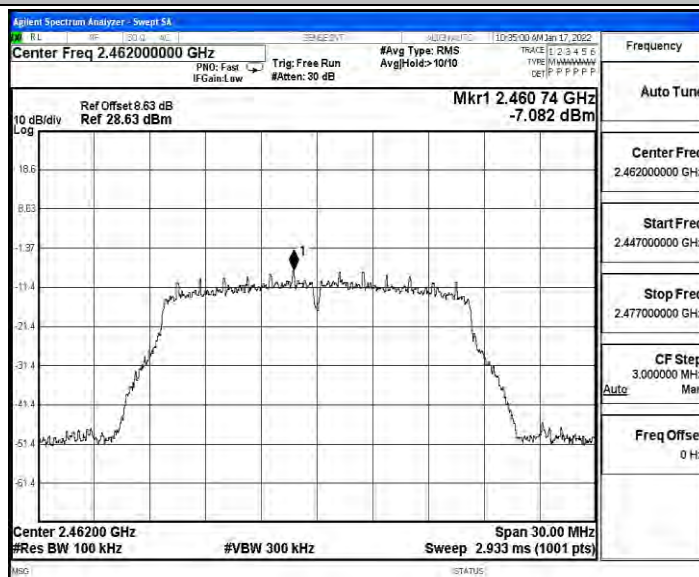
11G_Ant0_2437_30~1000



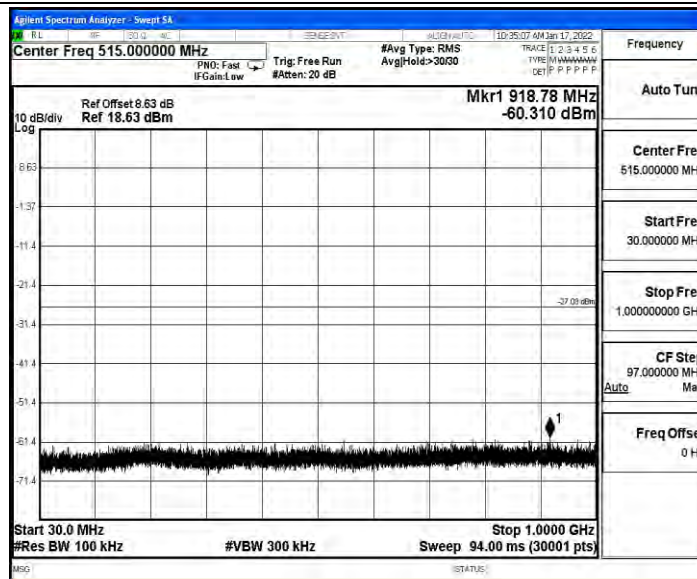
11G_Ant0_2437_1000~26500



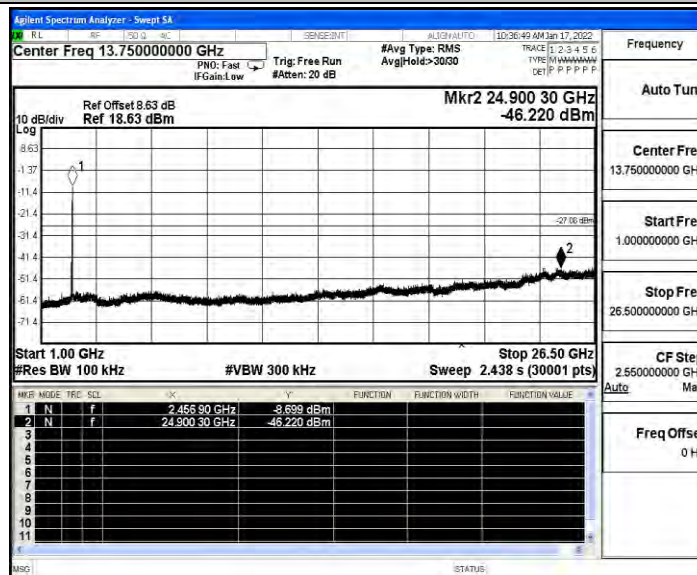
11G_Ant0_2462_0~Reference



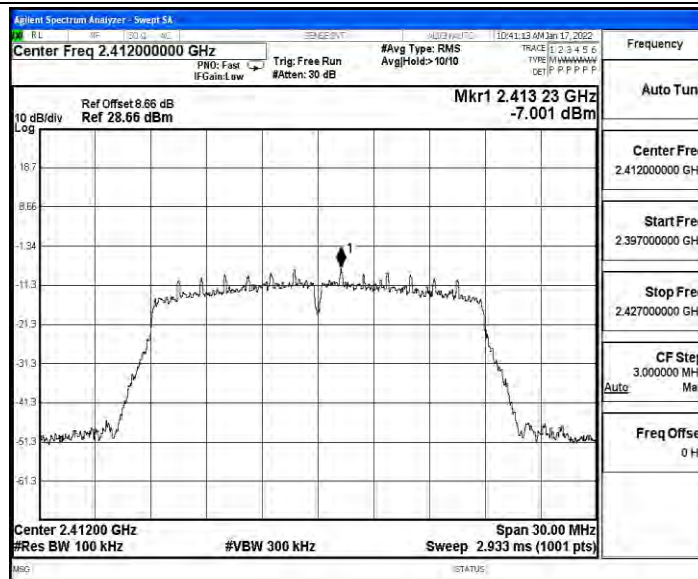
11G_Ant0_2462_30~1000



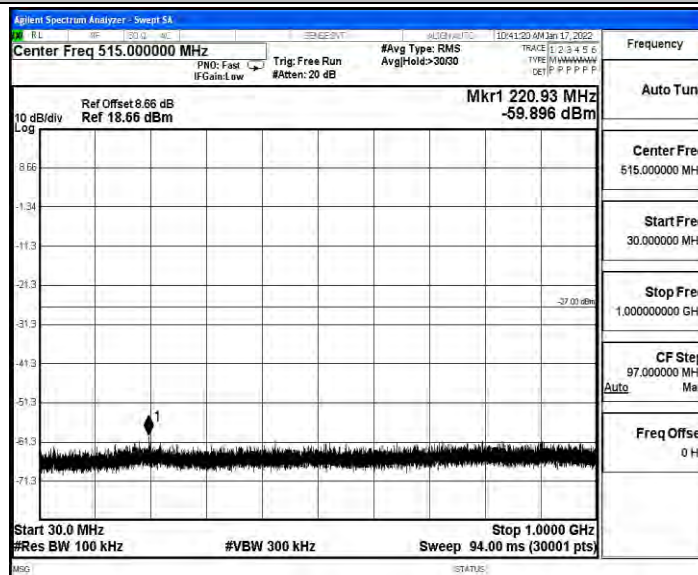
11G_Ant0_2462_1000~26500



11N20SISO_Ant0_2412_0~Reference



11N20SISO_Ant0_2412_30~1000



11N20SISO_Ant0_2412_1000~26500