



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Mini PC

Test Model: CK10

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

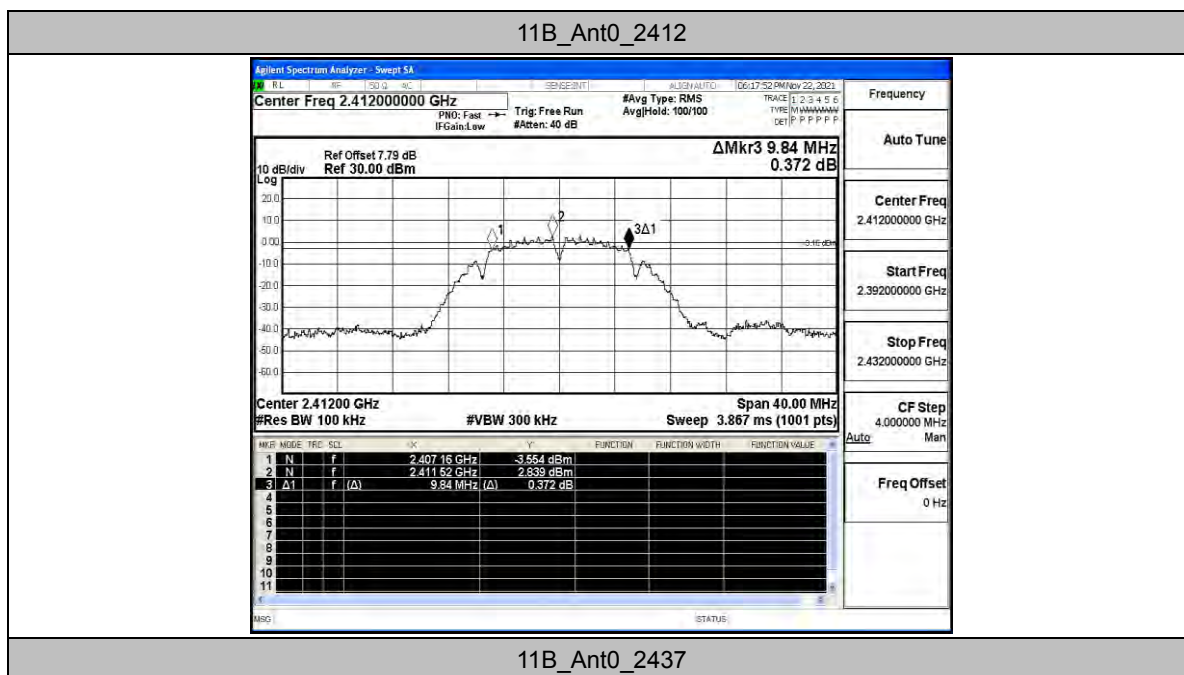


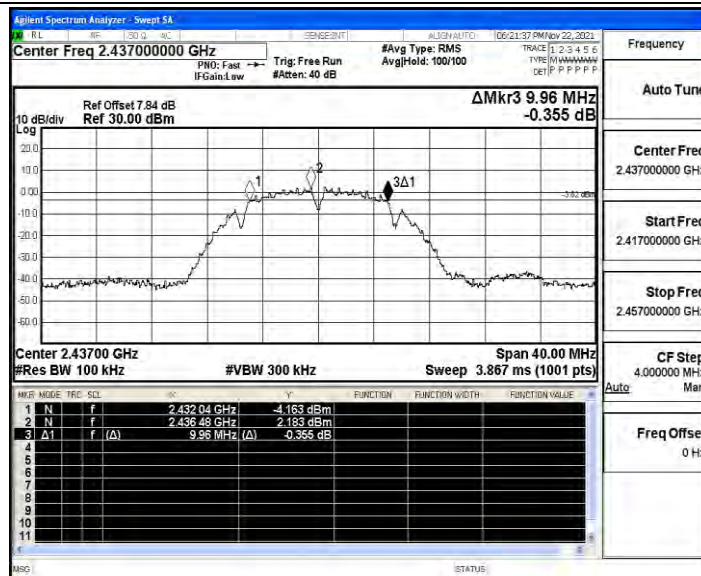
C.1 6dB Bandwidth

Test Result

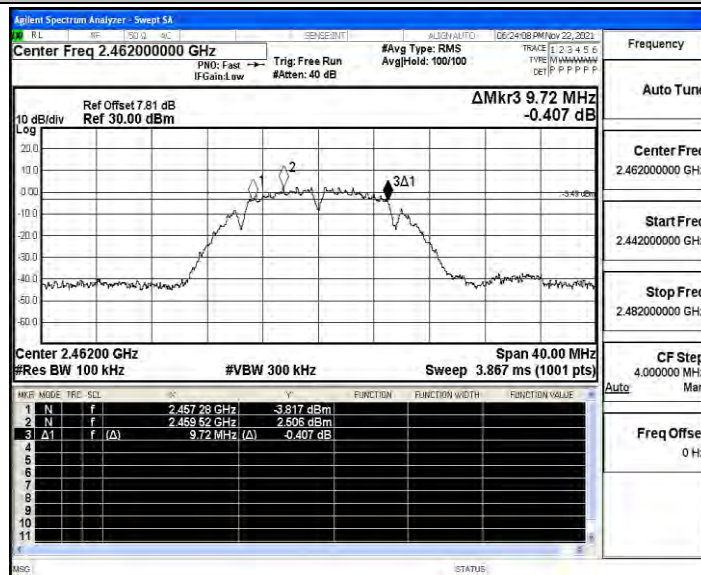
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	9.840	2407.160	2417.000	0.5	PASS
		2437	9.960	2432.040	2442.000	0.5	PASS
		2462	9.720	2457.280	2467.000	0.5	PASS
11G	Ant0	2412	13.960	2404.400	2418.360	0.5	PASS
		2437	15.160	2429.440	2444.600	0.5	PASS
		2462	13.640	2454.400	2468.040	0.5	PASS
11N20SISO	Ant0	2412	13.000	2406.560	2419.560	0.5	PASS
		2437	15.280	2429.480	2444.760	0.5	PASS
		2462	13.880	2455.640	2469.520	0.5	PASS
11N40SISO	Ant0	2422	32.800	2405.600	2438.400	0.5	PASS
		2437	34.000	2420.600	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS

Test Graphs

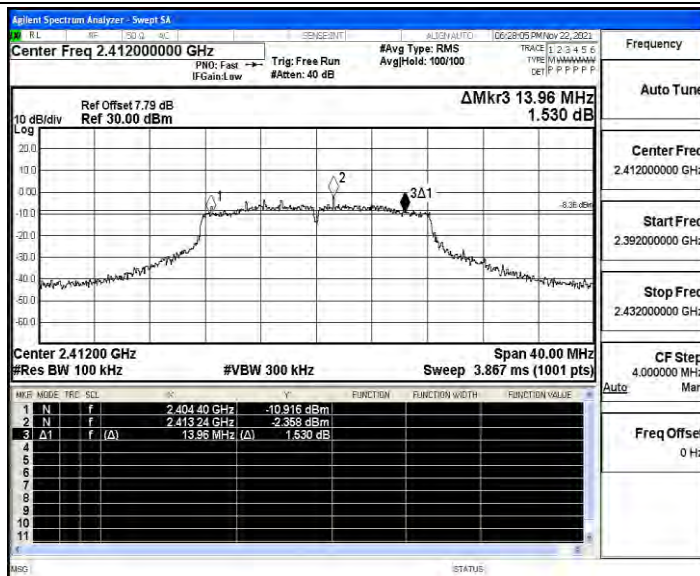




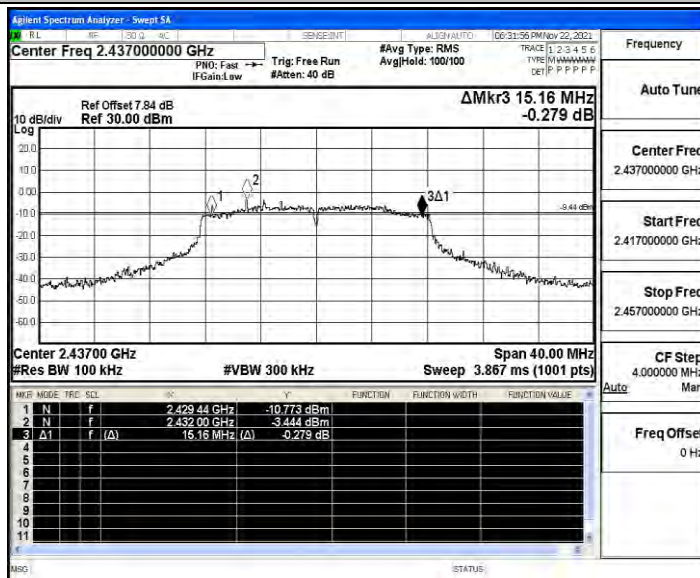
11B_Ant0_2462



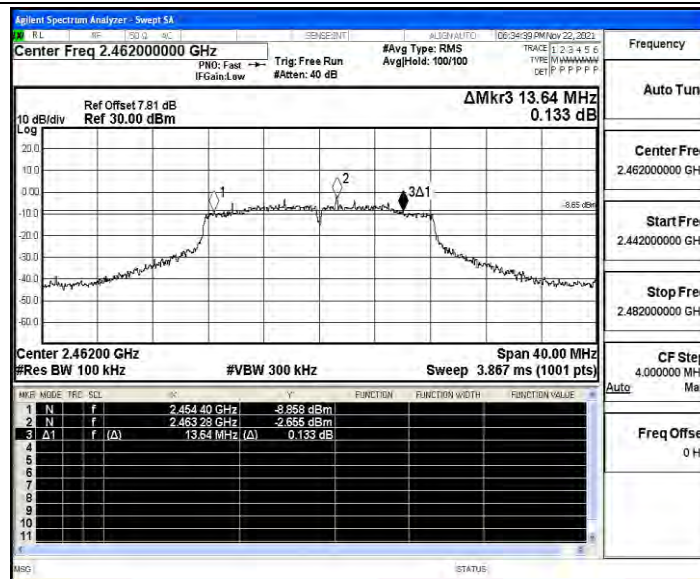
11G_Ant0_2412



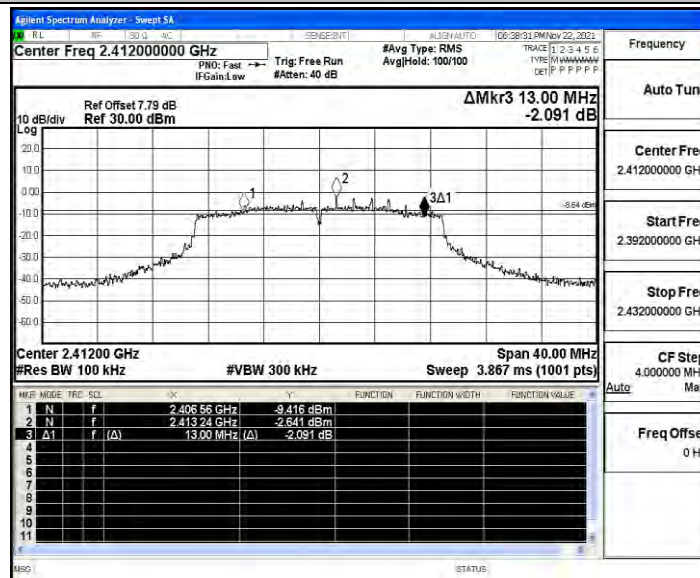
11G_Ant0_2437



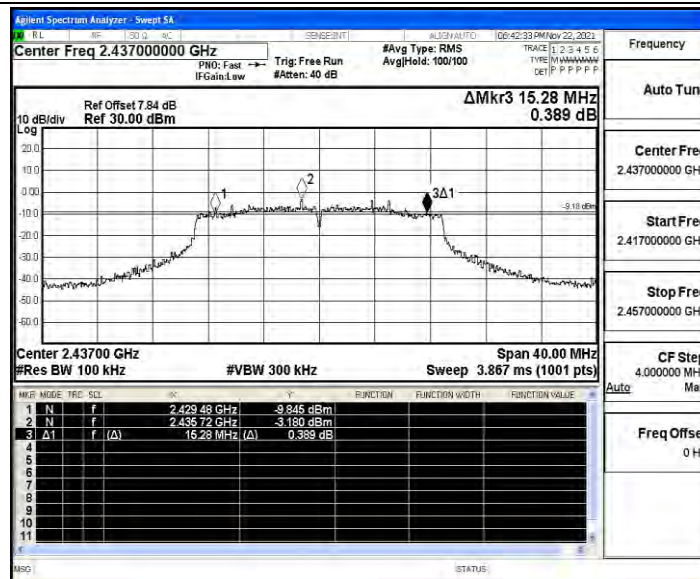
11G_Ant0_2462



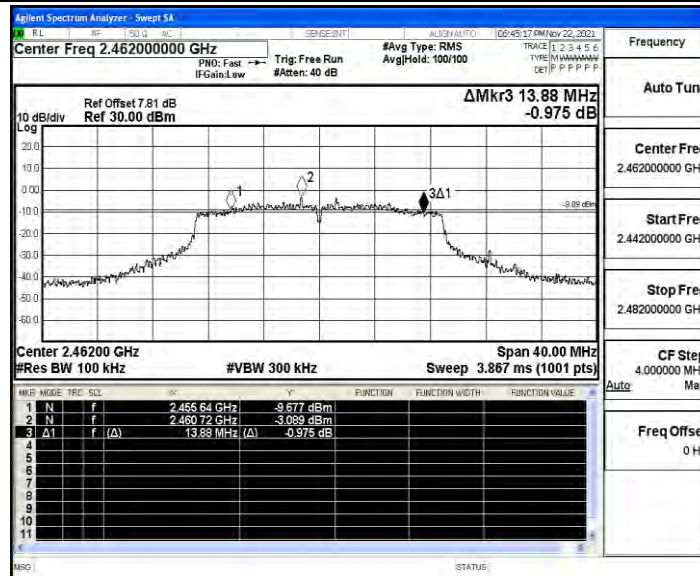
11N20SISO_Ant0_2412



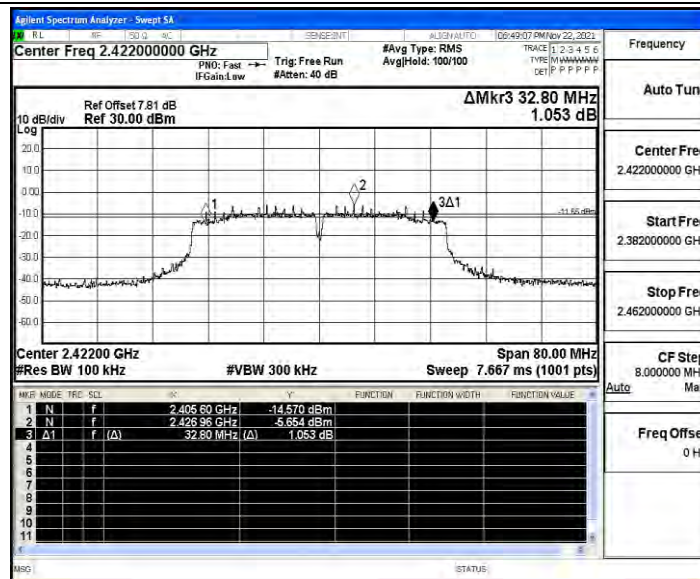
11N20SISO_Ant0_2437



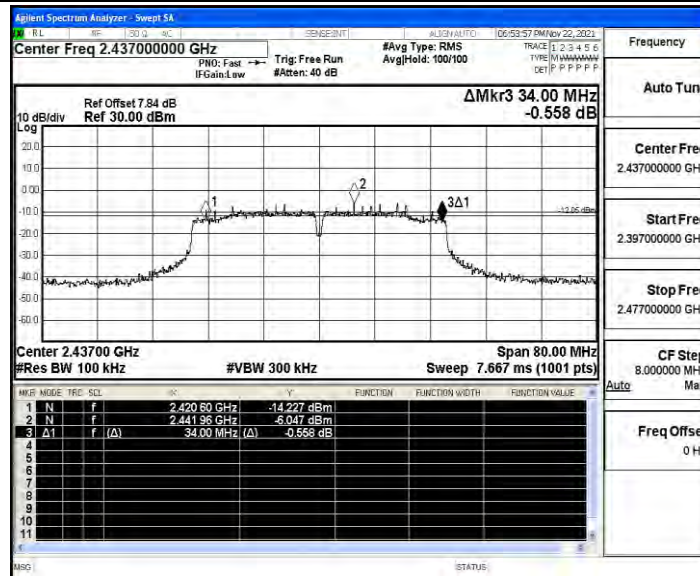
11N20SISO_Ant0_2462



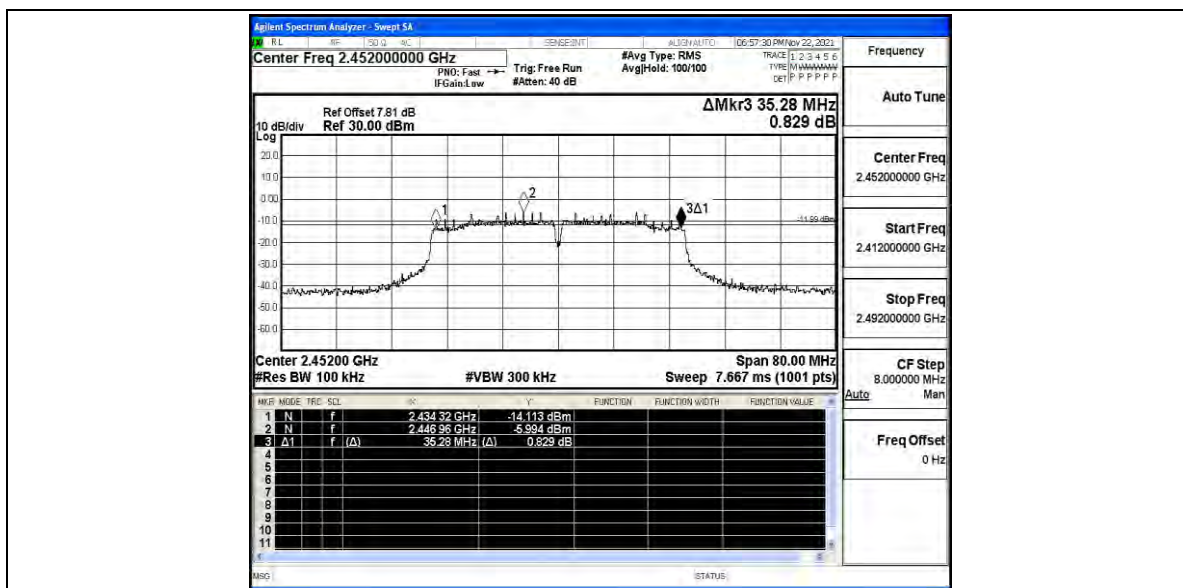
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



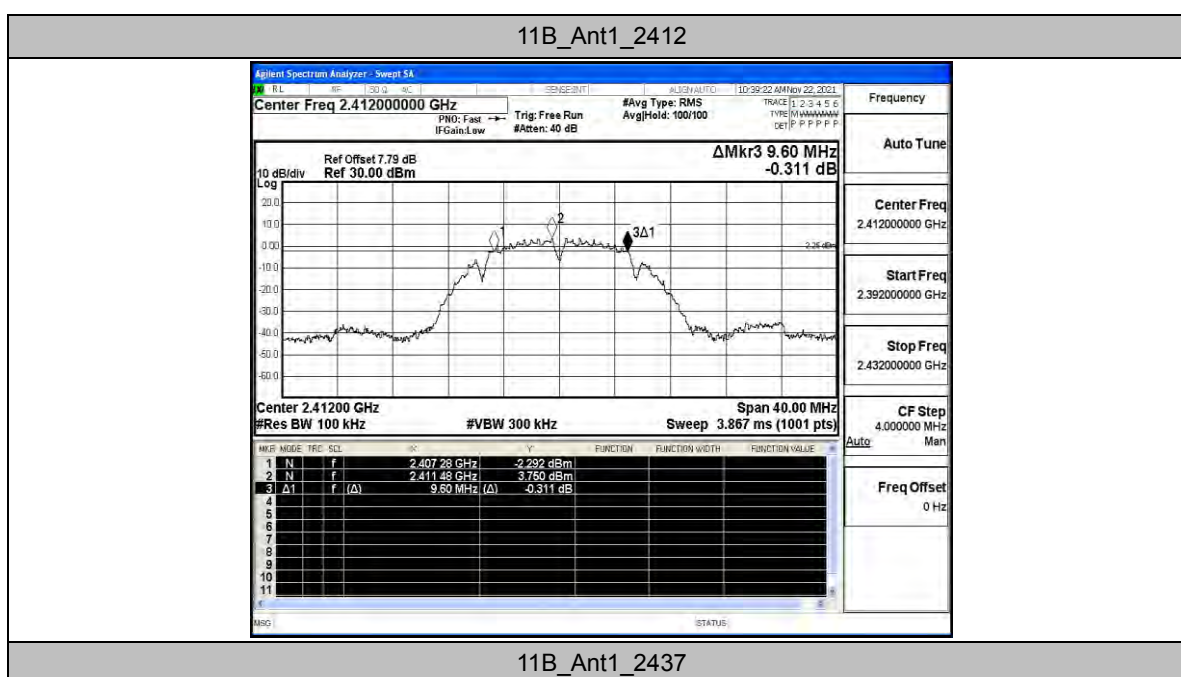
11N40SISO_Ant0_2452

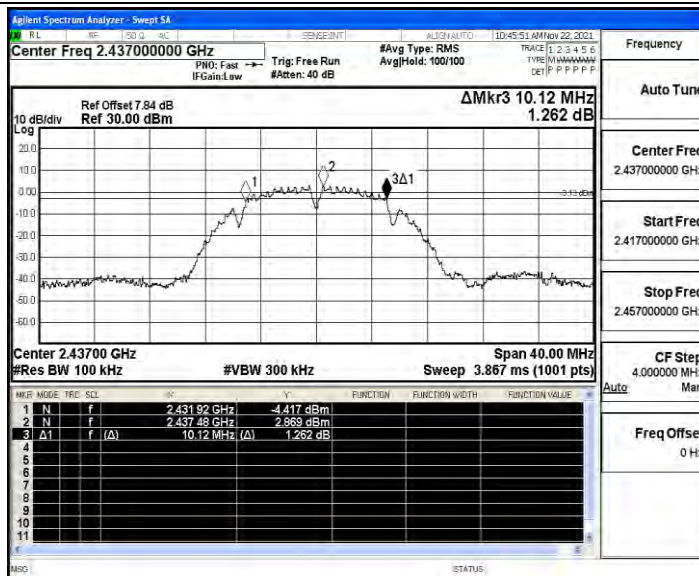




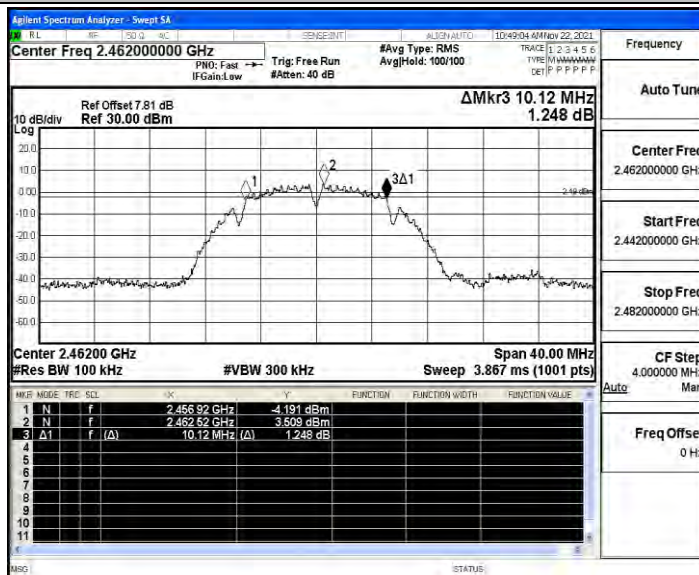
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.600	2407.280	2416.880	0.5	PASS
		2437	10.120	2431.920	2442.040	0.5	PASS
		2462	10.120	2456.920	2467.040	0.5	PASS
11G	Ant1	2412	15.160	2404.440	2419.600	0.5	PASS
		2437	15.400	2429.400	2444.800	0.5	PASS
		2462	13.240	2455.360	2468.600	0.5	PASS
11N20SISO	Ant1	2412	15.200	2404.400	2419.600	0.5	PASS
		2437	13.160	2431.320	2444.480	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.320	2439.600	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

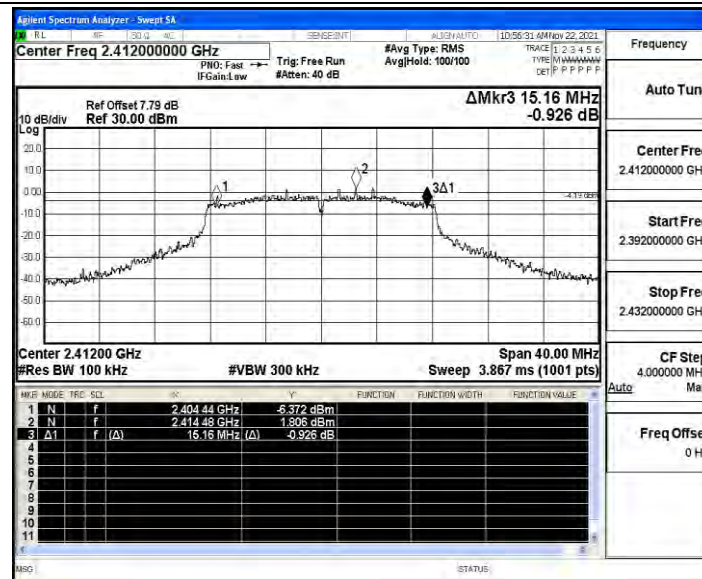




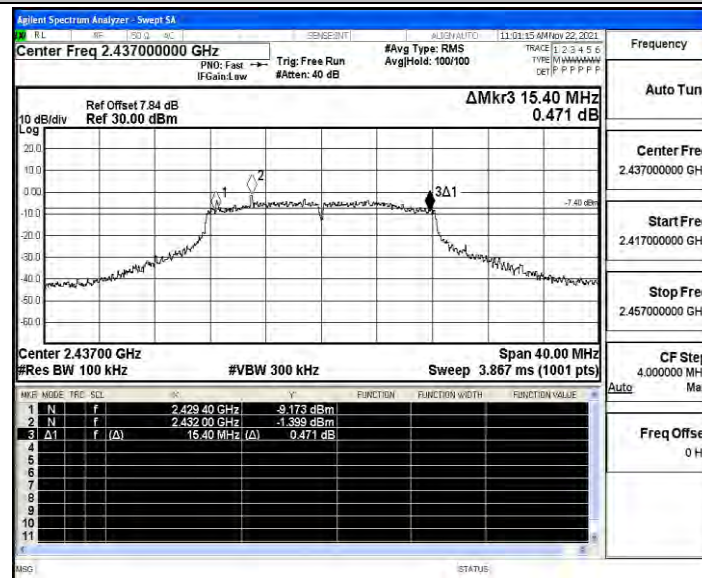
11B_Ant1_2462



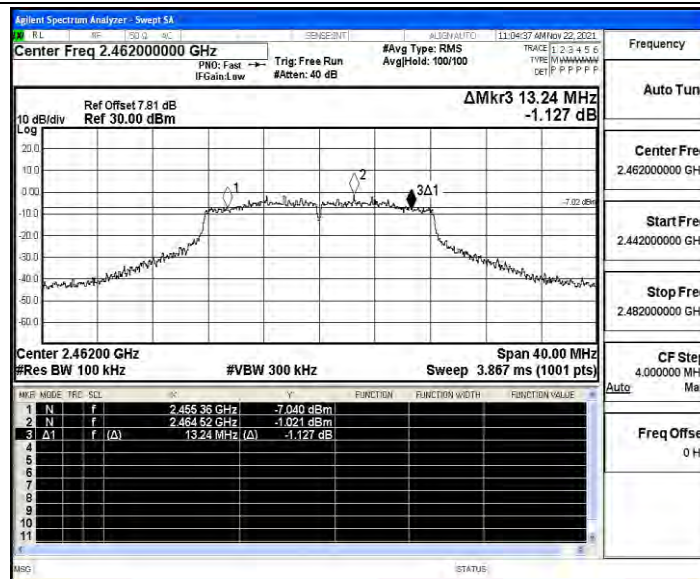
11G_Ant1_2412



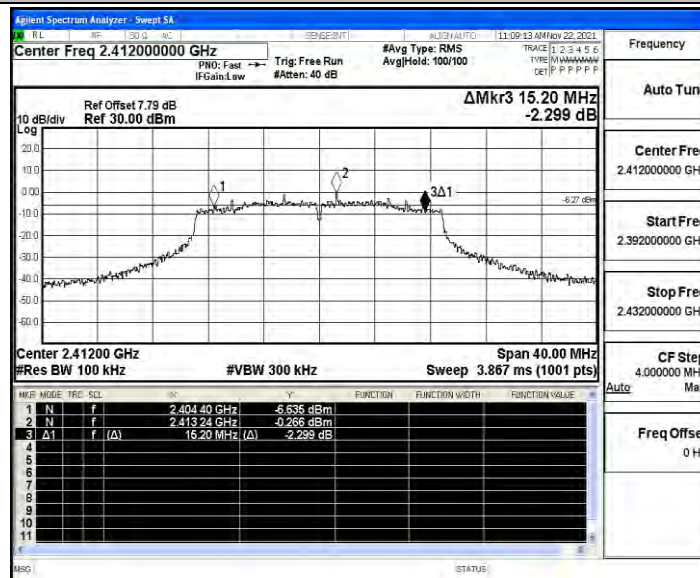
11G_Ant1_2437



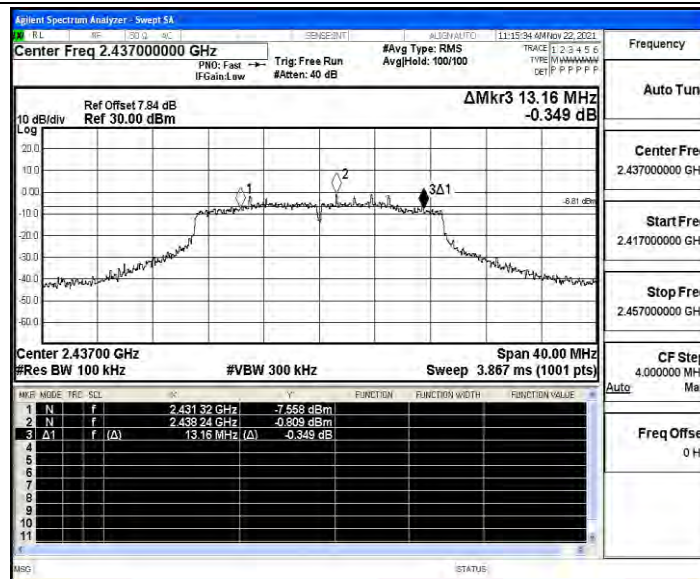
11G_Ant1_2462



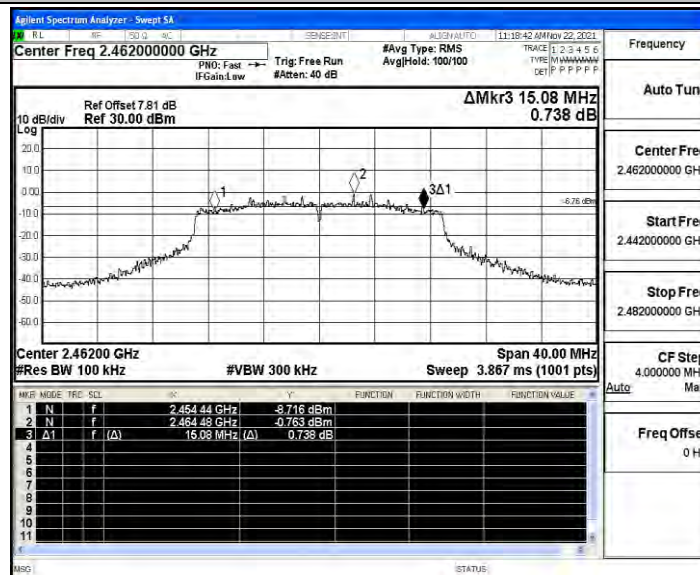
11N20SISO_Ant1_2412



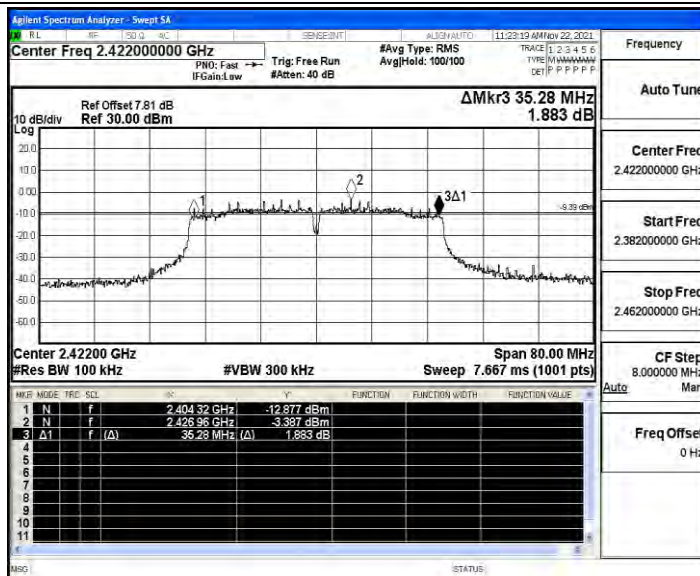
11N20SISO_Ant1_2437



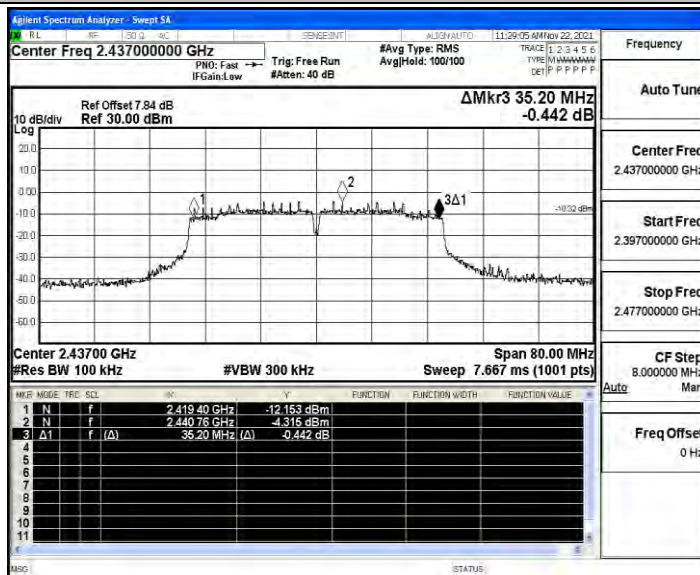
11N20SISO_Ant1_2462



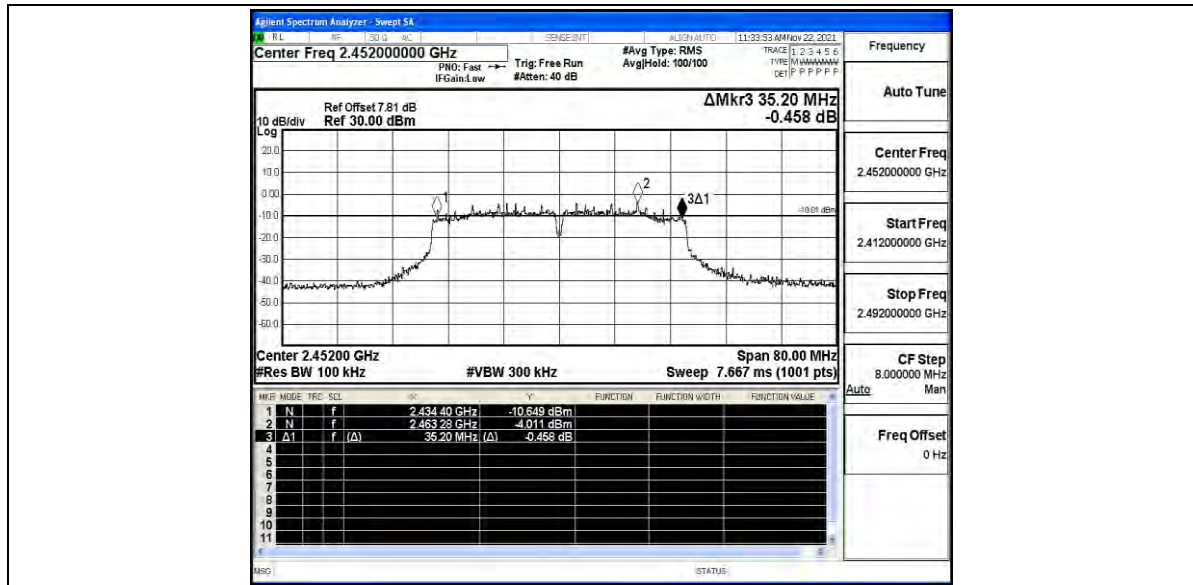
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	2412	15.73	≤30	PASS
		2437	14.95	≤30	PASS
		2462	15.47	≤30	PASS
11G	Ant0	2412	14.94	≤30	PASS
		2437	14.36	≤30	PASS
		2462	14.21	≤30	PASS
11N20SISO	Ant0	2412	13.95	≤30	PASS
		2437	14.05	≤30	PASS
		2462	14.08	≤30	PASS
11N40SISO	Ant0	2422	14.61	≤30	PASS
		2437	14.31	≤30	PASS
		2452	14.45	≤30	PASS

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.21	≤30	PASS
		2437	16.01	≤30	PASS
		2462	16.61	≤30	PASS
11G	Ant1	2412	17.57	≤30	PASS
		2437	16.66	≤30	PASS
		2462	16.73	≤30	PASS
11N20SISO	Ant1	2412	17.02	≤30	PASS
		2437	16.50	≤30	PASS
		2462	16.73	≤30	PASS
11N40SISO	Ant1	2422	17.05	≤30	PASS
		2437	16.61	≤30	PASS
		2452	16.71	≤30	PASS

MIMO

Mode	Channel	ANT 0 [dBm]	ANT 1 [dBm]	MIMO [dBm]	Limit [dBm]	Verdict
11N20	LCH	13.95	17.02	18.76	30	PASS
	MCH	14.05	16.50	18.46	30	PASS
	HCH	14.08	16.73	18.61	30	PASS
11N40	LCH	14.61	17.05	19.01	30	PASS
	MCH	14.31	16.61	18.62	30	PASS
	HCH	14.45	16.71	18.74	30	PASS



C.3 Maximum power spectral density

Test Result

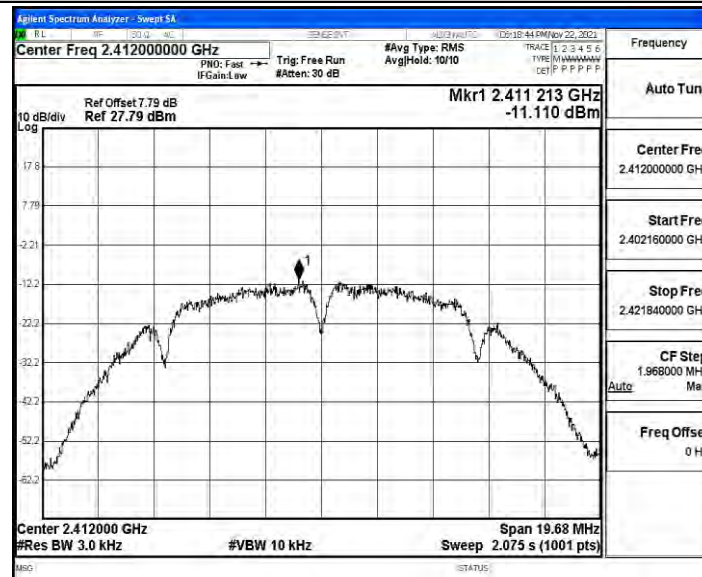
Mode	Channel	PSD Level [dBm/3KHz]		Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1		
11B	2412	-11.11	-10.17	8	PASS
	2437	-11.9	-11.85	8	PASS
	2462	-11.36	-11.08	8	PASS
11G	2412	-16.8	-13.66	8	PASS
	2437	-17.59	-15.58	8	PASS
	2462	-17.55	-15.41	8	PASS
11N20	2412	-17.5	-14.51	8	PASS
	2437	-17.44	-14.36	8	PASS
	2462	-16.3	-15.92	8	PASS
11N40	2422	-19.74	-17.06	8	PASS
	2437	-19.37	-17.87	8	PASS
	2452	-19.37	-17.89	8	PASS

Mode	Channel	MIMO PSD [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11N20	LCH	-17.5	-14.51	-12.74	8	PASS
	MCH	-17.44	-14.36	-12.62	8	PASS
	HCH	-16.3	-15.92	-13.10	8	PASS
11N40	LCH	-19.74	-17.06	-15.19	8	PASS
	MCH	-19.37	-17.87	-15.55	8	PASS
	HCH	-19.37	-17.89	-15.56	8	PASS

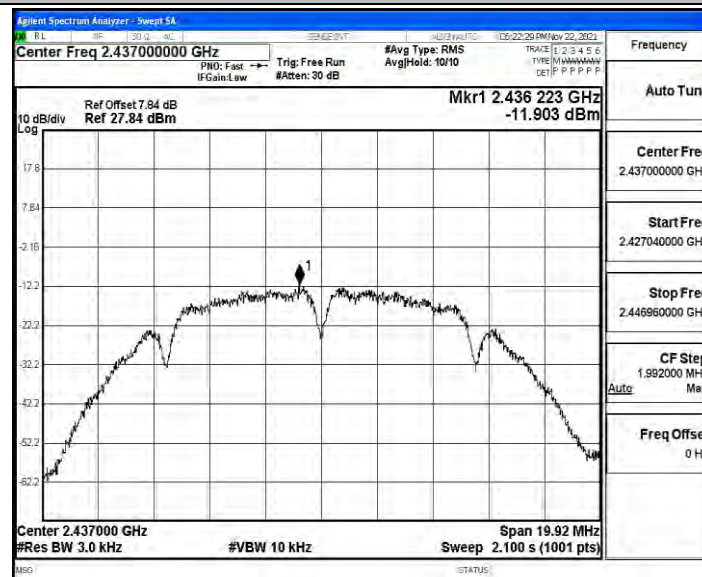


Test Graphs

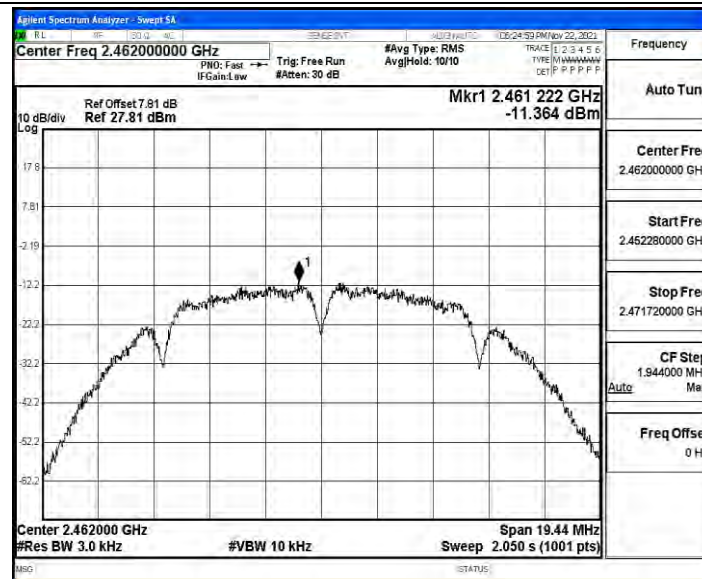
11B_Ant0_2412



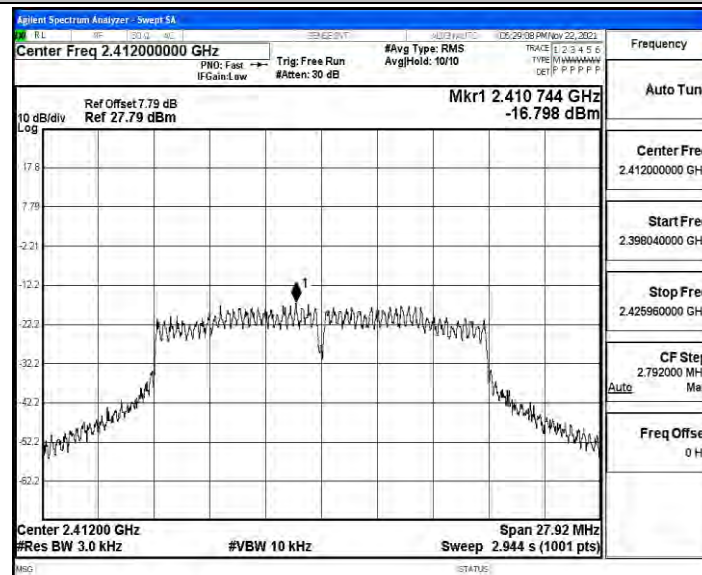
11B_Ant0_2437



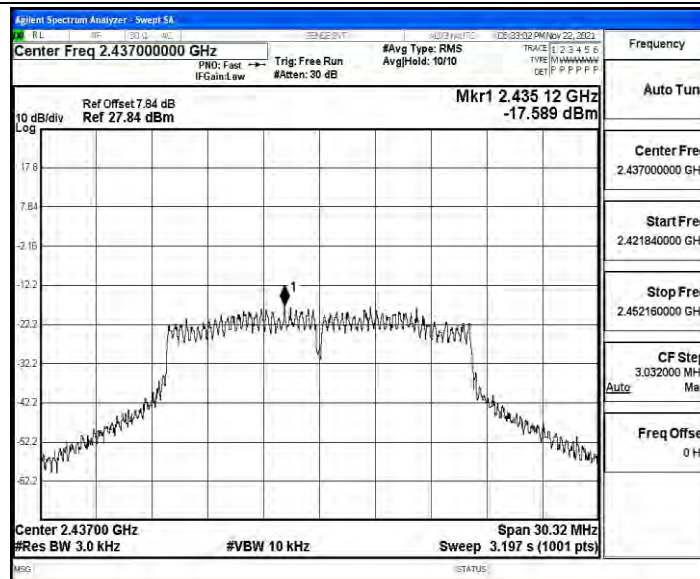
11B_Ant0_2462



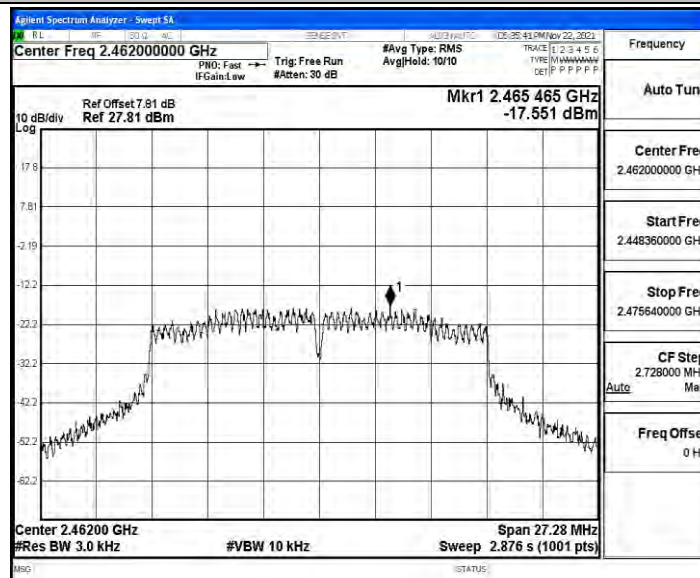
11G_Ant0_2412



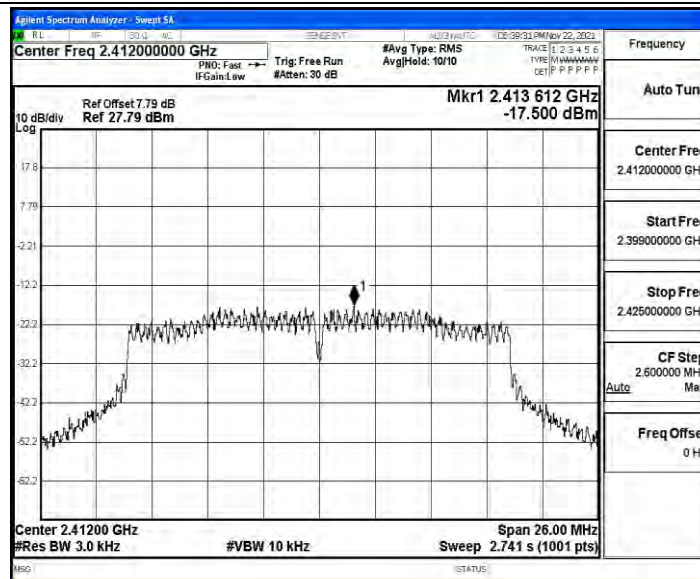
11G_Ant0_2437



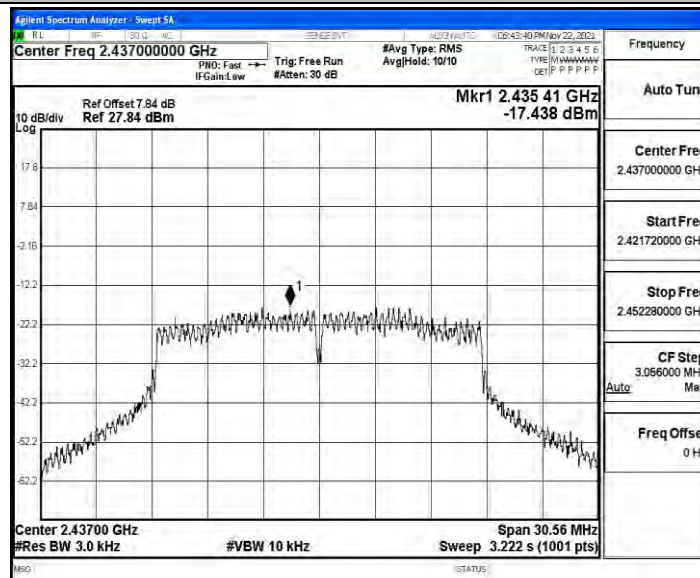
11G_Ant0_2462



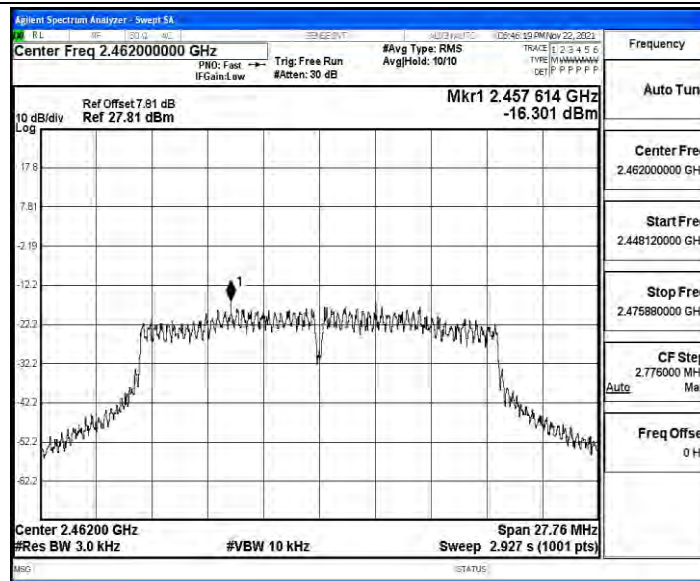
11N20SISO_Ant0_2412



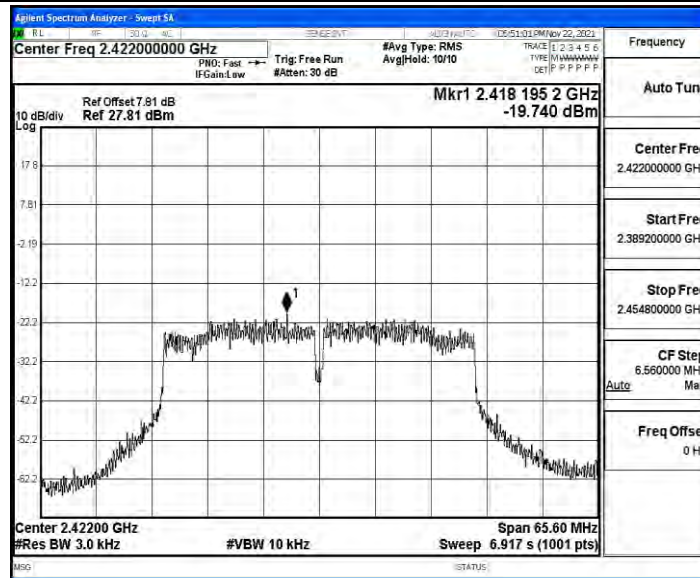
11N20SISO_Ant0_2437



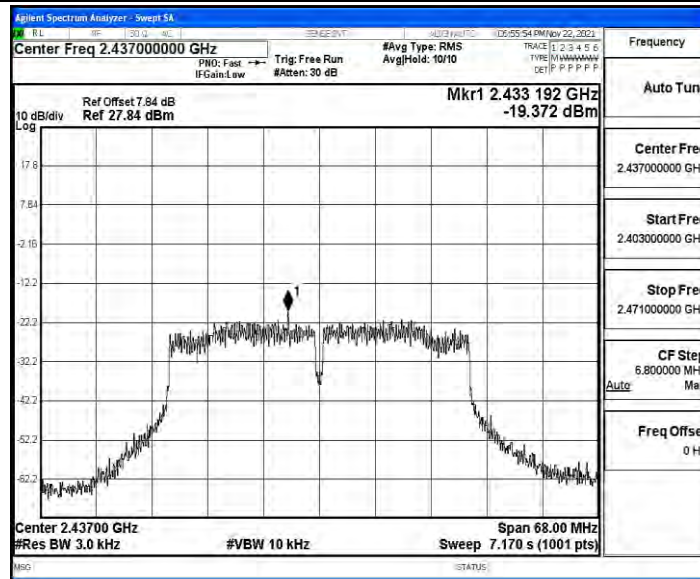
11N20SISO_Ant0_2462



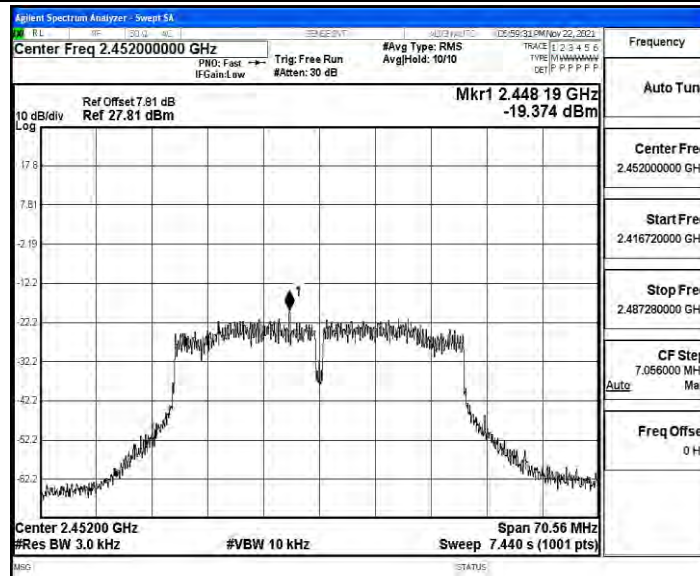
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



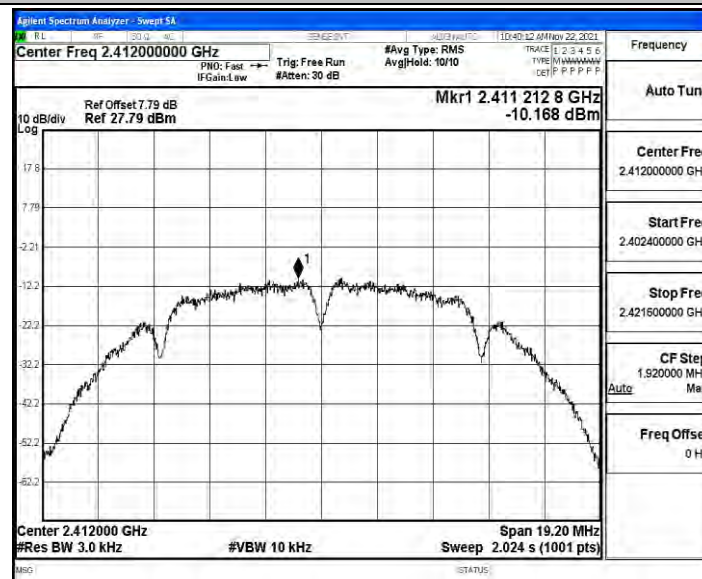
11N40SISO_Ant0_2452



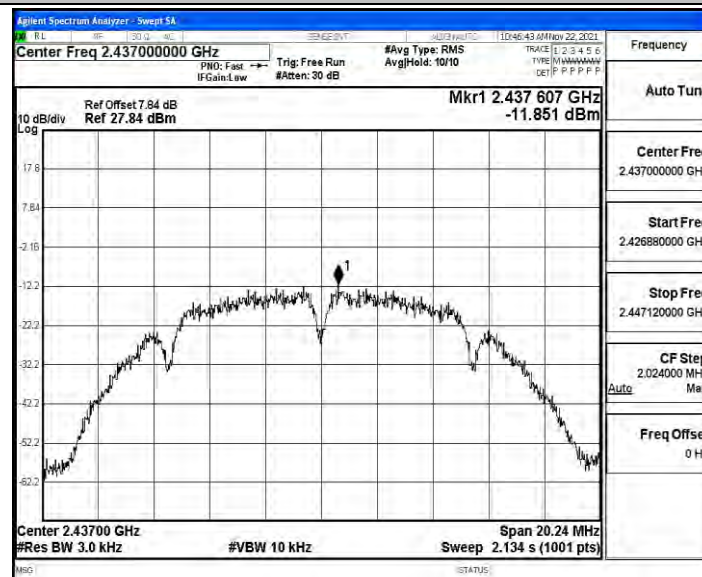


Test Graphs

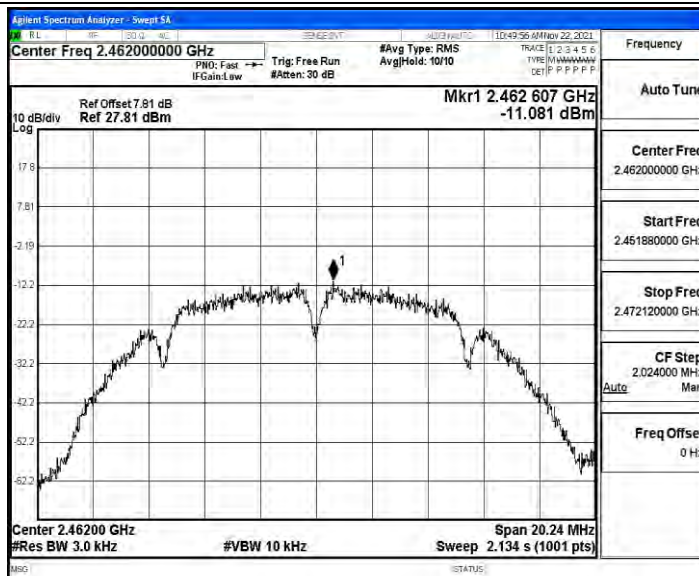
11B_Ant1_2412



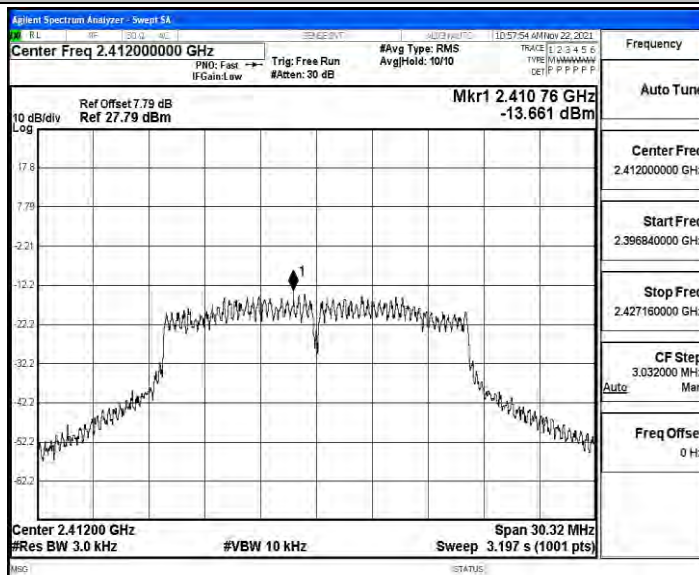
11B_Ant1_2437



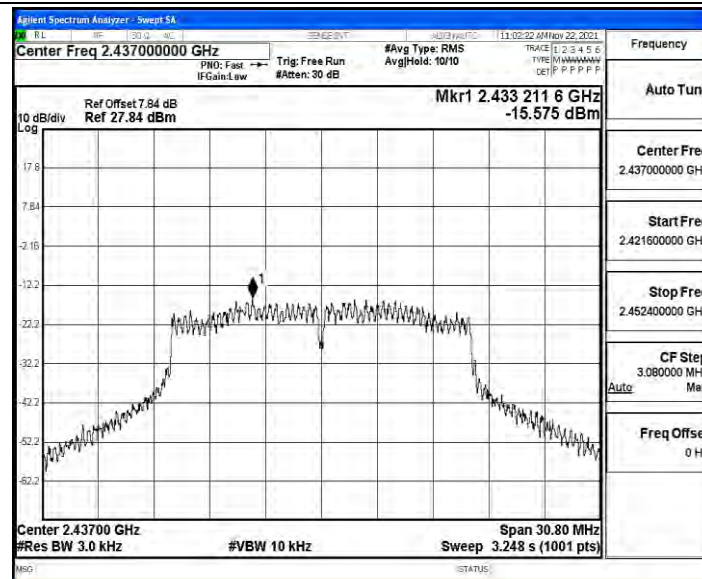
11B_Ant1_2462



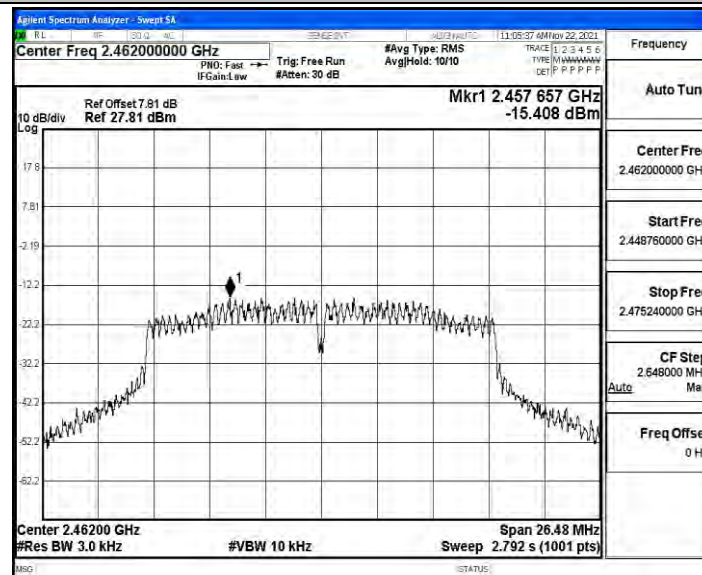
11G_Ant1_2412



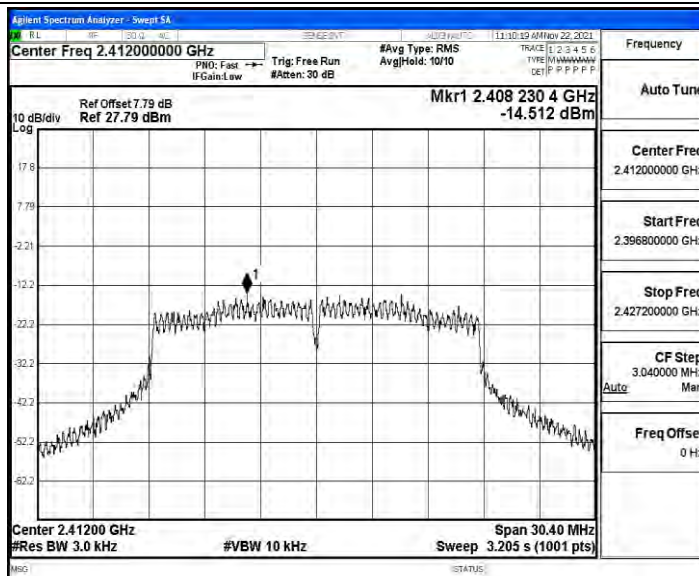
11G_Ant1_2437



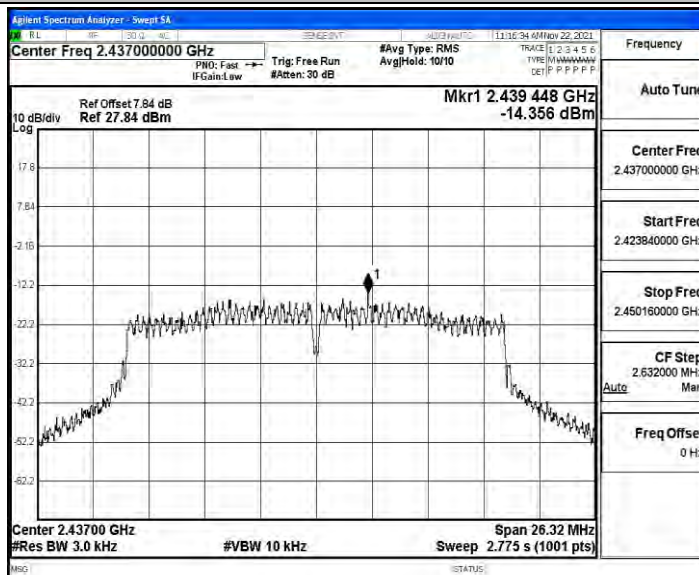
11G_Ant1_2462



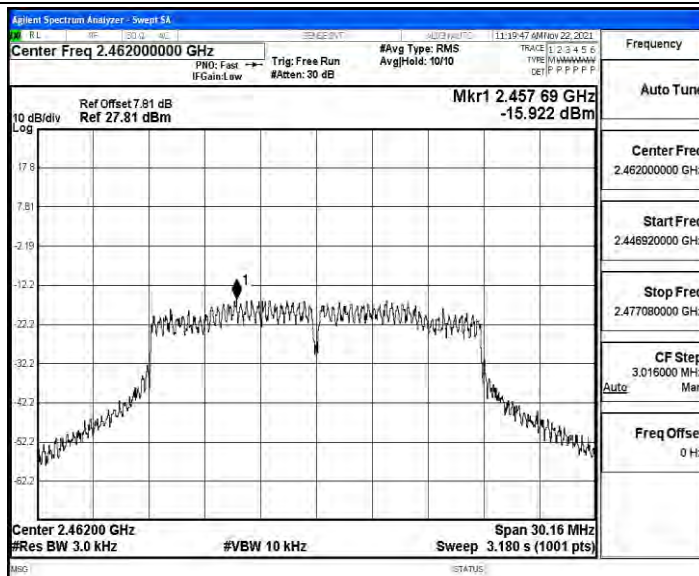
11N20SISO_Ant1_2412



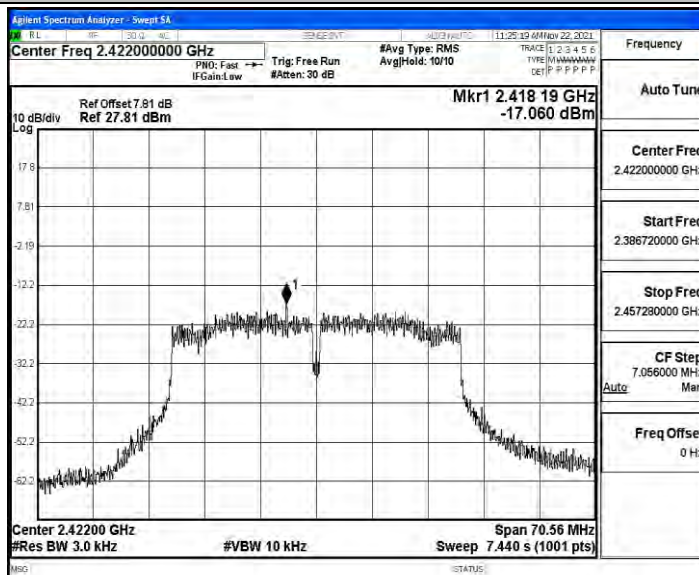
11N20SISO_Ant1_2437



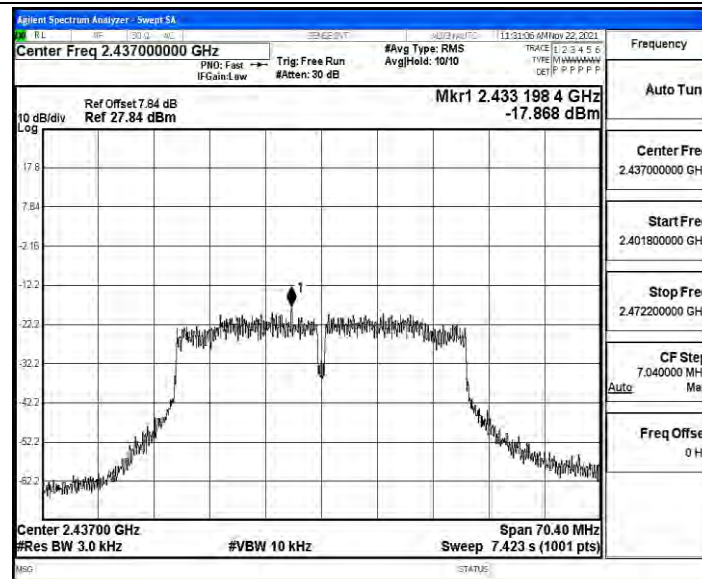
11N20SISO_Ant1_2462



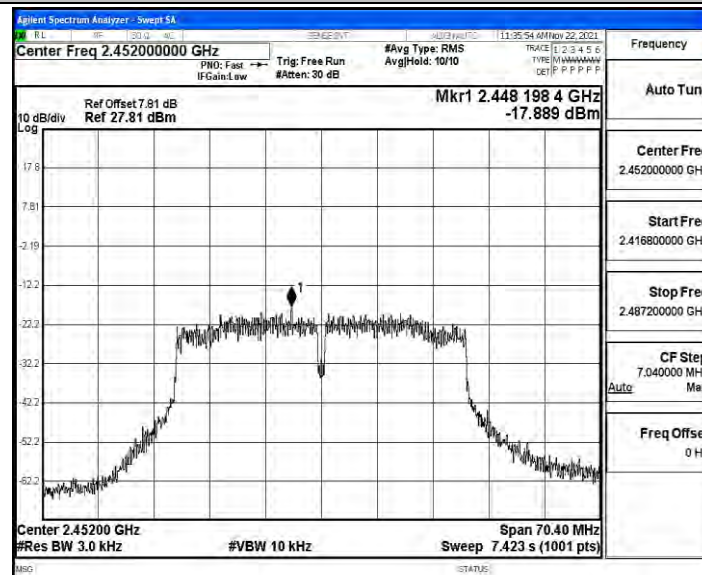
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.4 Band edge measurements

Test Result

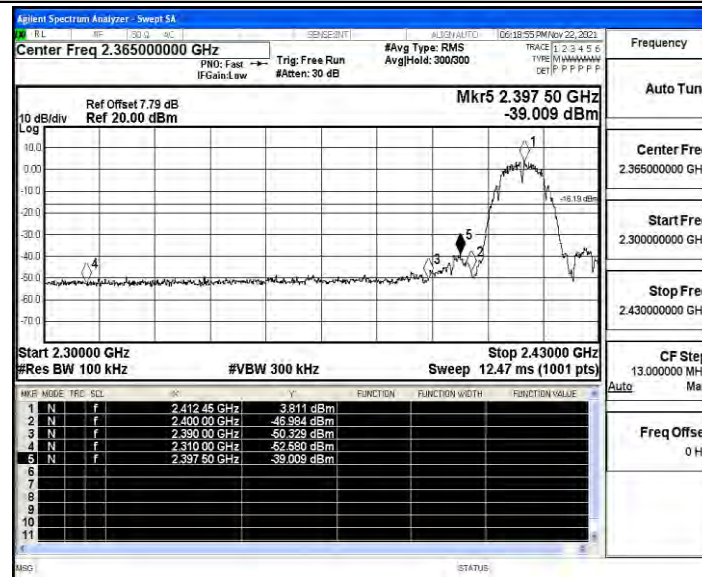
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	3.81	-39.01	≤ -16.19	PASS
		High	2462	3.67	-47.71	≤ -16.33	PASS
11G	Ant0	Low	2412	-2.29	-31.46	≤ -22.29	PASS
		High	2462	-2.45	-47.86	≤ -22.45	PASS
11N20SISO	Ant0	Low	2412	-2.65	-30.51	≤ -22.65	PASS
		High	2462	-1.97	-46.31	≤ -21.97	PASS
11N40SISO	Ant0	Low	2422	-5.77	-35.75	≤ -25.77	PASS
		High	2452	-5.99	-40.31	≤ -25.99	PASS

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.71	-37.01	≤ -15.29	PASS
		High	2462	3.57	-45.88	≤ -16.43	PASS
11G	Ant1	Low	2412	-0.21	-29.75	≤ -20.21	PASS
		High	2462	-1.24	-46.85	≤ -21.24	PASS
11N20SISO	Ant1	Low	2412	-0.05	-30.27	≤ -20.05	PASS
		High	2462	-0.91	-45.99	≤ -20.91	PASS
11N40SISO	Ant1	Low	2422	-3.56	-34.54	≤ -23.56	PASS
		High	2452	-3.76	-38.77	≤ -23.76	PASS

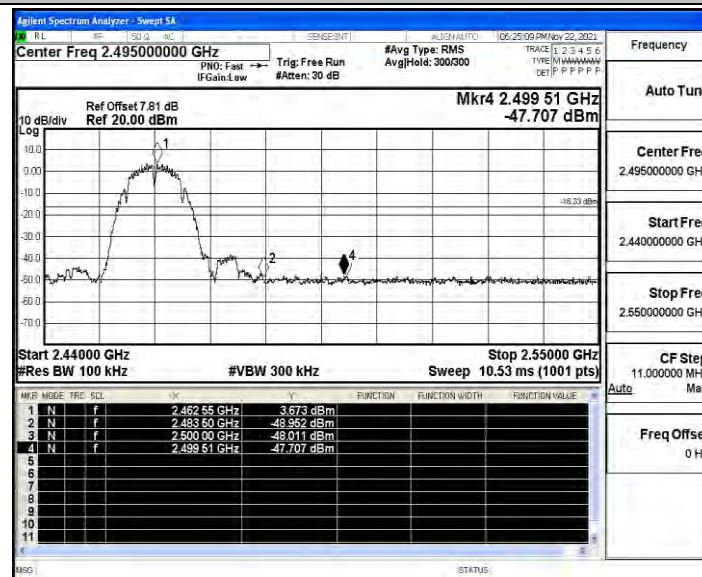


Test Graphs

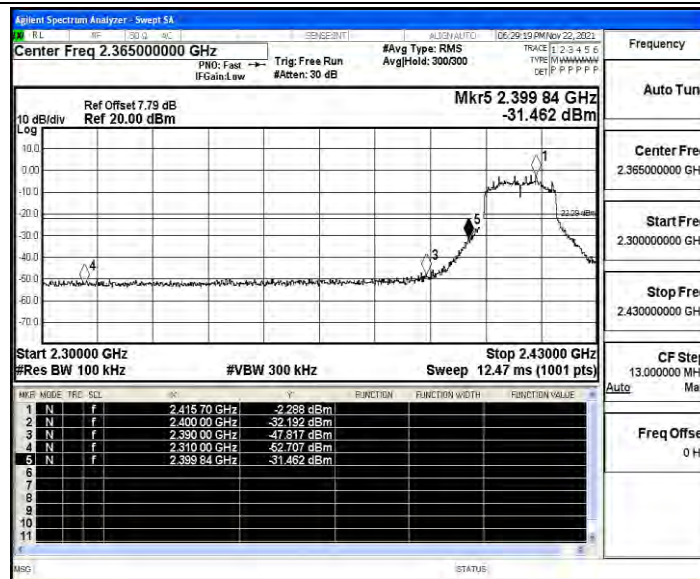
11B_Ant0_Low_2412



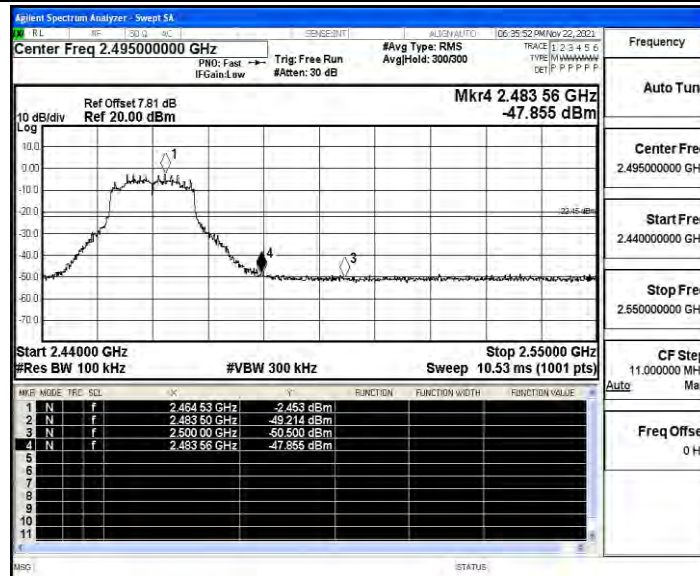
11B_Ant0_High_2462



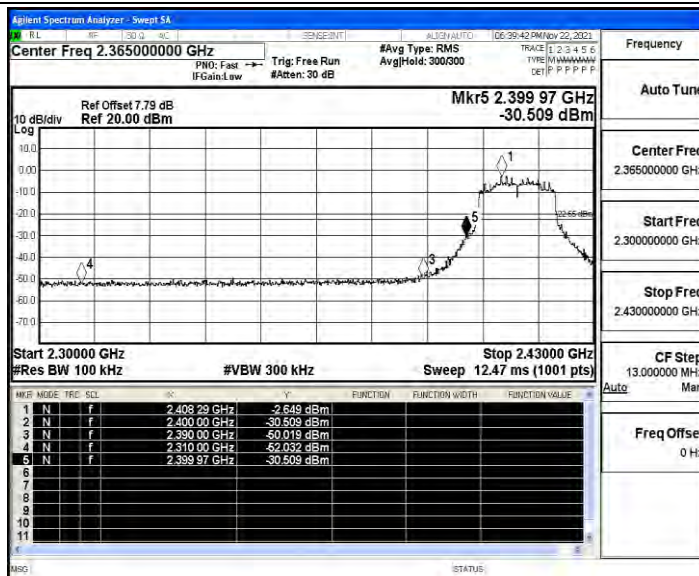
11G_Ant0_Low_2412



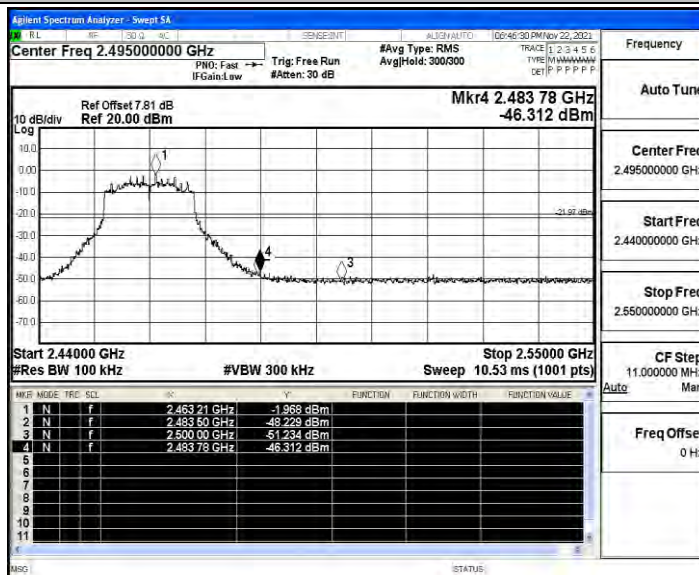
11G_Ant0_High_2462



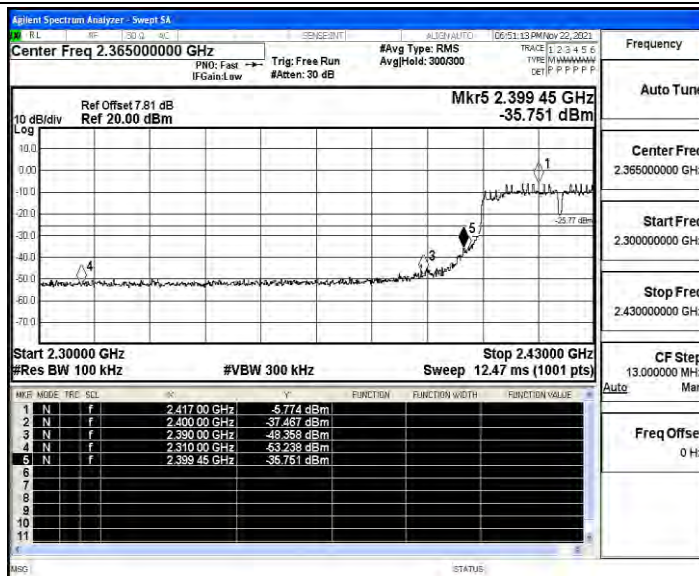
11N20SISO_Ant0_Low_2412



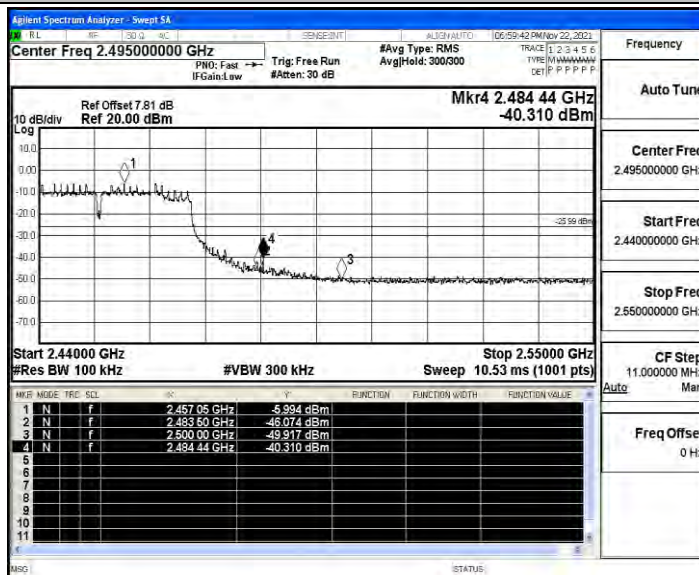
11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422



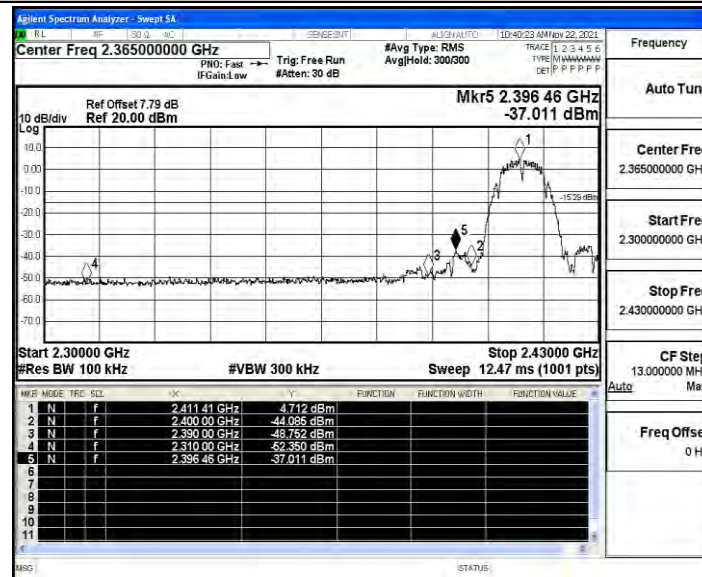
11N40SISO_Ant0_High_2452



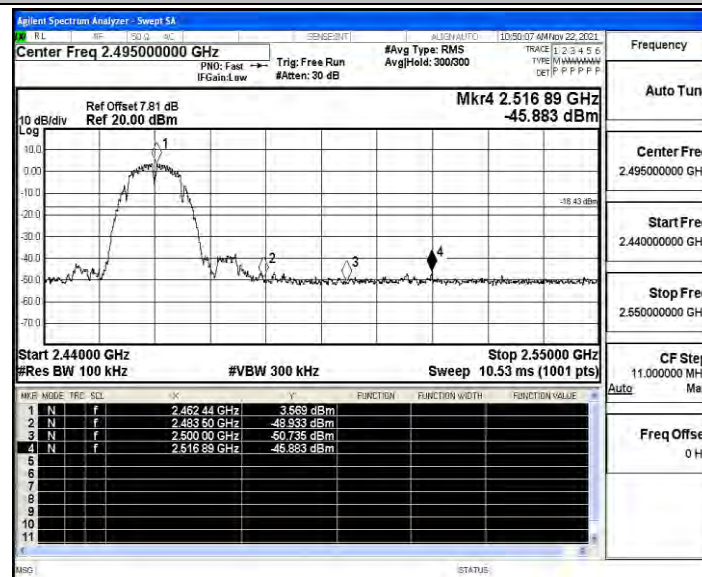


Test Graphs

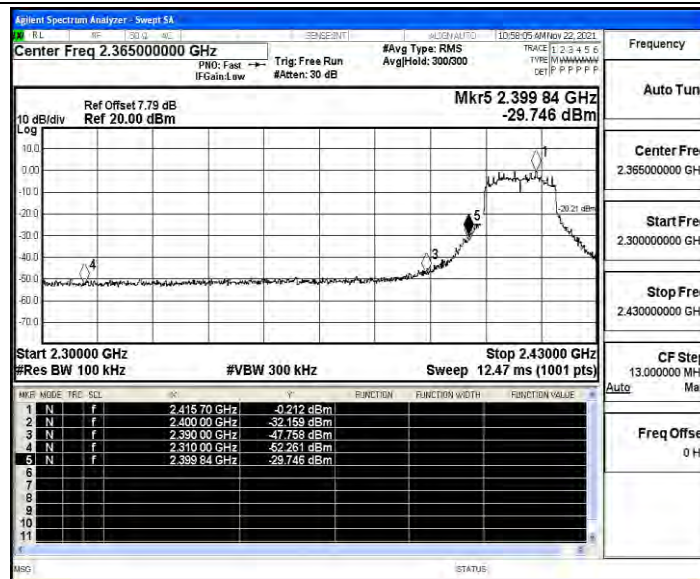
11B_Ant1_Low_2412



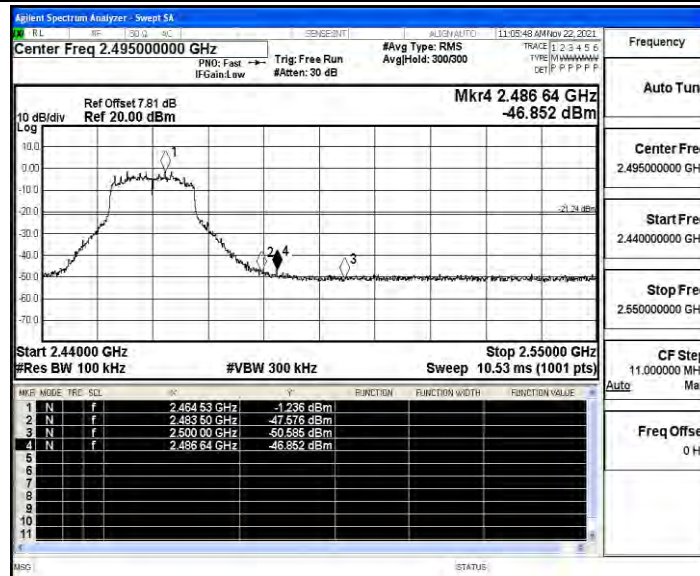
11B_Ant1_High_2462



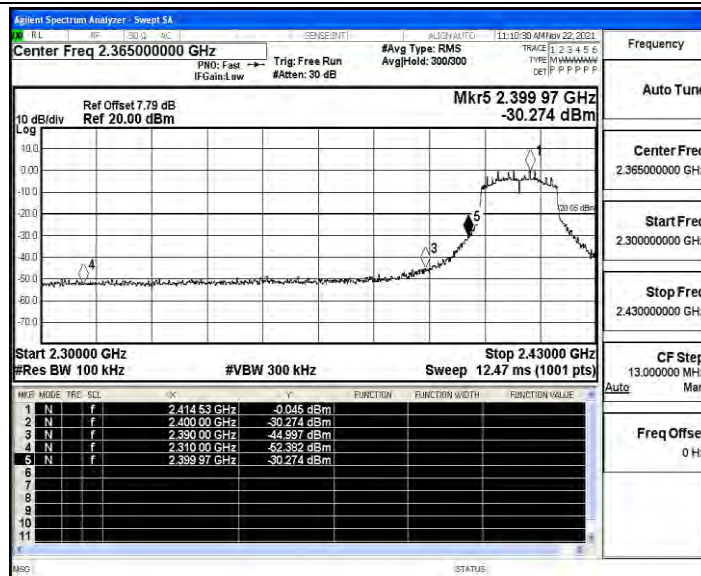
11G_Ant1_Low_2412



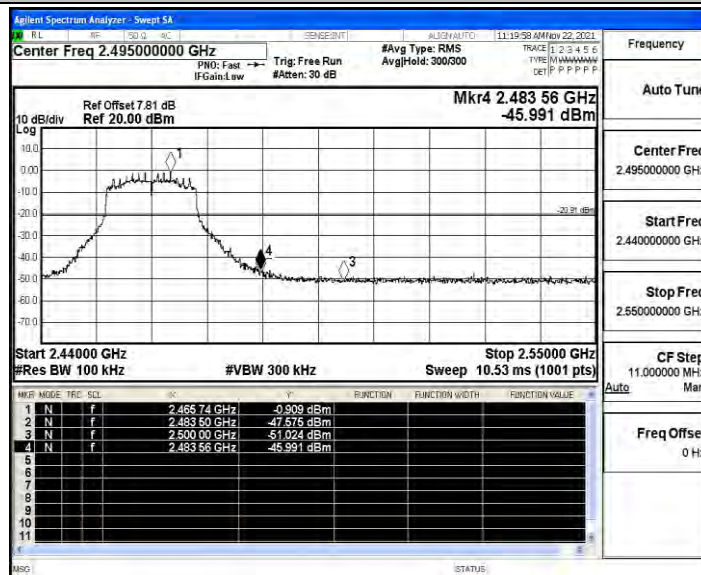
11G_Ant1_High_2462



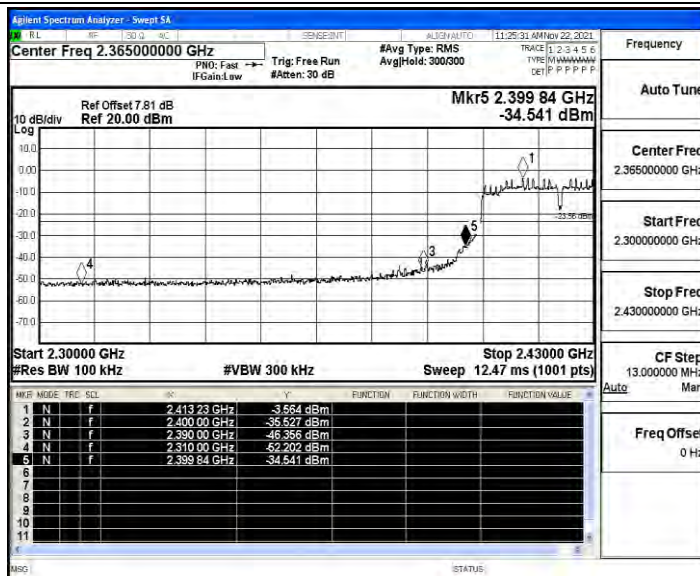
11N20SISO_Ant1_Low_2412



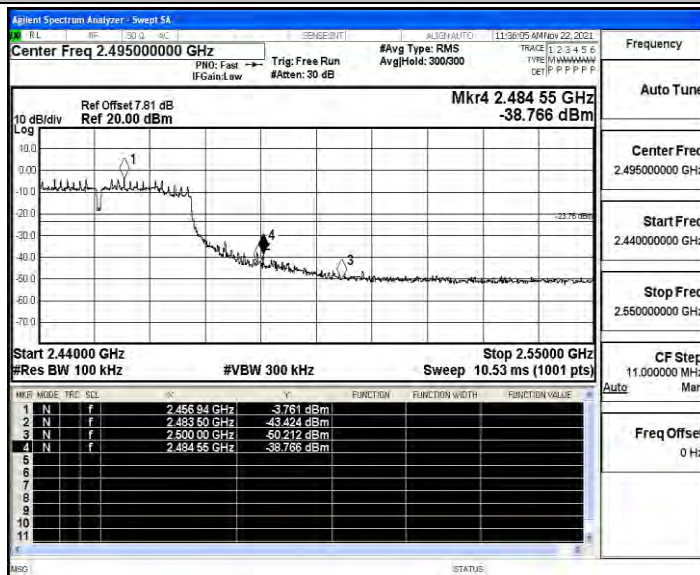
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

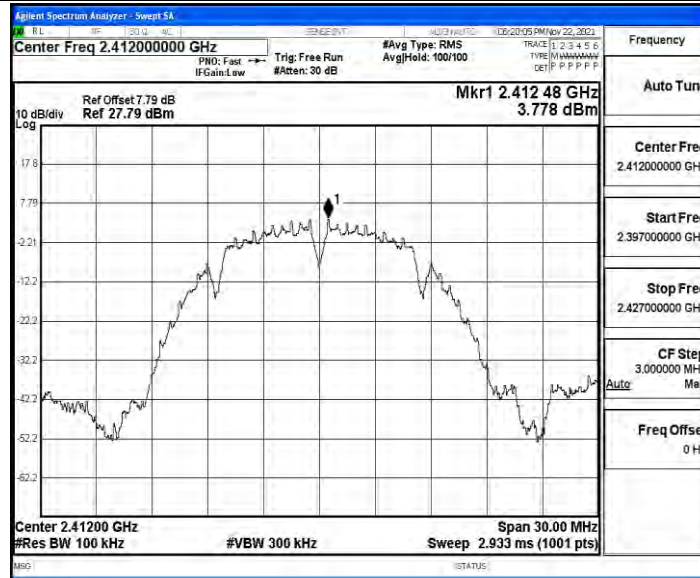
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-61.93	≤ -16.22	PASS
			1000~26500	3.78	-47.26	≤ -16.22	PASS
		2437	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-61.6	≤ -17.05	PASS
			1000~26500	2.95	-47.64	≤ -17.05	PASS
		2462	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-61.8	≤ -17.32	PASS
			1000~26500	2.68	-46.56	≤ -17.32	PASS
11G	Ant0	2412	Reference	-2.82	-2.82	---	PASS
			30~1000	-2.82	-61.02	≤ -22.82	PASS
			1000~26500	-2.82	-47.37	≤ -22.82	PASS
		2437	Reference	-2.64	-2.64	---	PASS
			30~1000	-2.64	-60.94	≤ -22.64	PASS
			1000~26500	-2.64	-47.23	≤ -22.64	PASS
		2462	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-61.6	≤ -22.45	PASS
			1000~26500	-2.45	-46.53	≤ -22.45	PASS
11N20SISO	Ant0	2412	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-61.47	≤ -22.33	PASS
			1000~26500	-2.33	-47.04	≤ -22.33	PASS
		2437	Reference	-3.07	-3.07	---	PASS
			30~1000	-3.07	-61.82	≤ -23.07	PASS
			1000~26500	-3.07	-47.48	≤ -23.07	PASS
		2462	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-61.52	≤ -22.74	PASS
			1000~26500	-2.74	-47.55	≤ -22.74	PASS
11N40SISO	Ant0	2422	Reference	-5.65	-5.65	---	PASS
			30~1000	-5.65	-61.06	≤ -25.65	PASS
			1000~26500	-5.65	-46.79	≤ -25.65	PASS
		2437	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-61.02	≤ -26.09	PASS
			1000~26500	-6.09	-47.22	≤ -26.09	PASS
		2452	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-61.68	≤ -26.17	PASS
			1000~26500	-6.17	-47.53	≤ -26.17	PASS

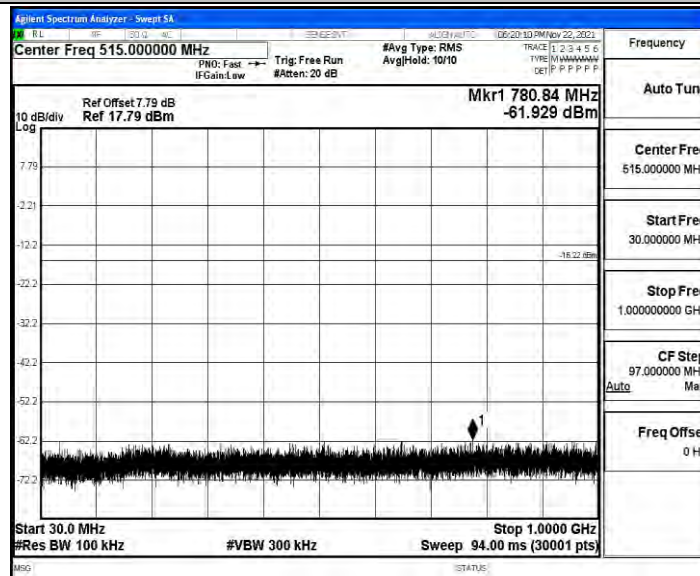


Test Graphs

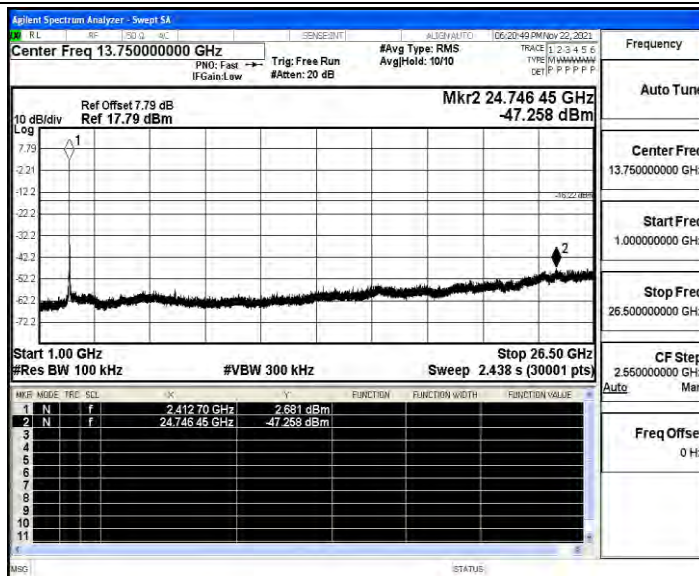
11B_Ant0_2412_0~Reference



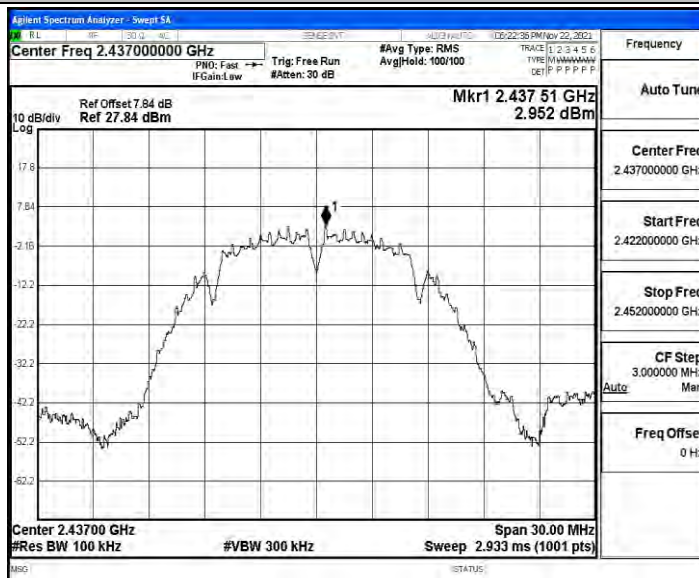
11B_Ant0_2412_30~1000



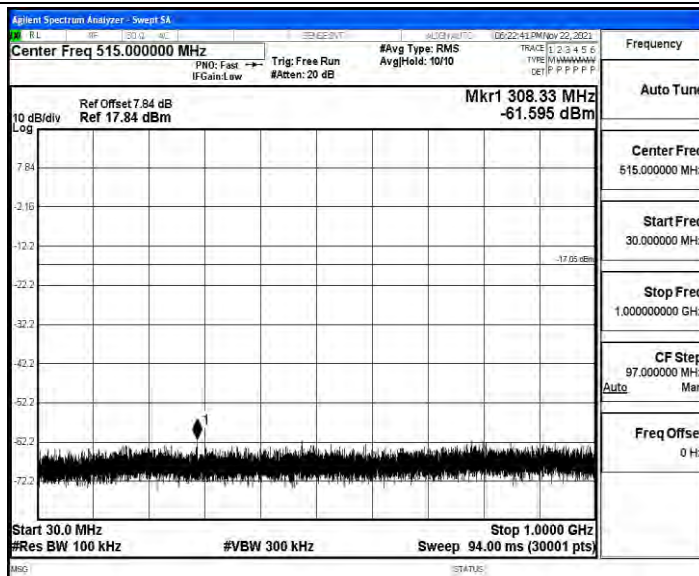
11B_Ant0_2412_1000~26500



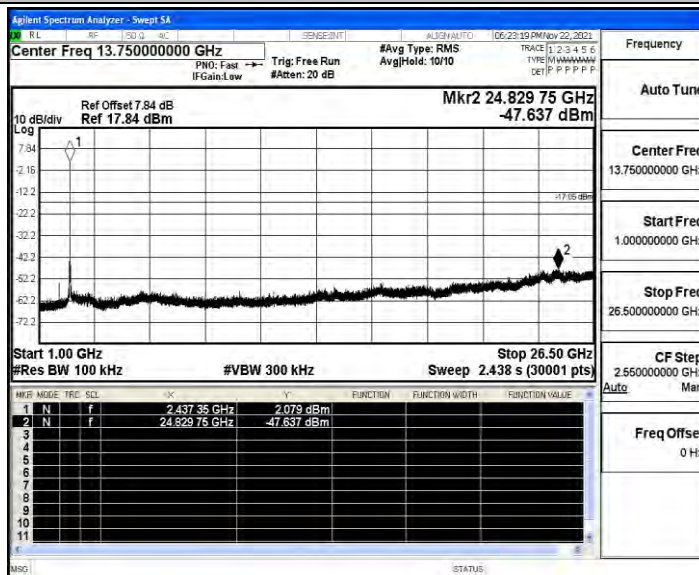
11B_Ant0_2437_0~Reference



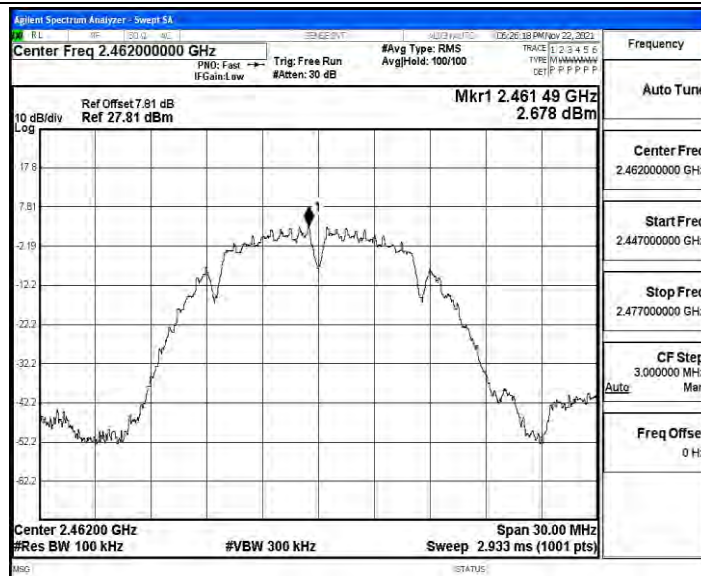
11B_Ant0_2437_30~1000



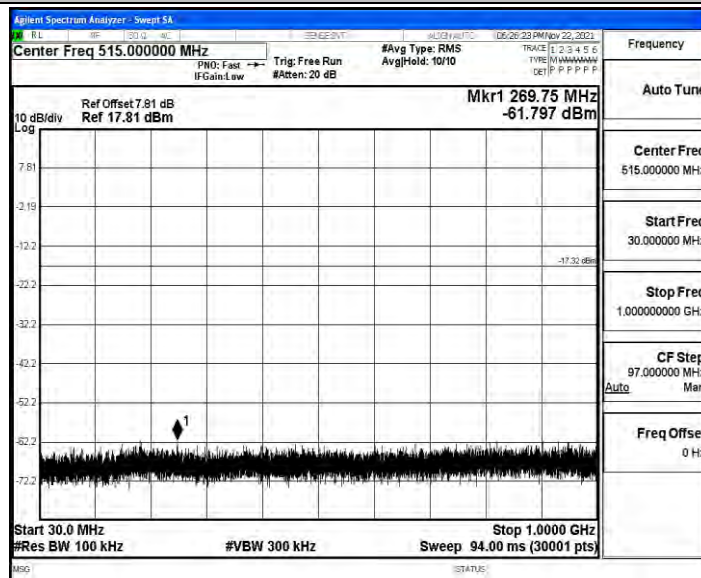
11B_Ant0_2437_1000~26500



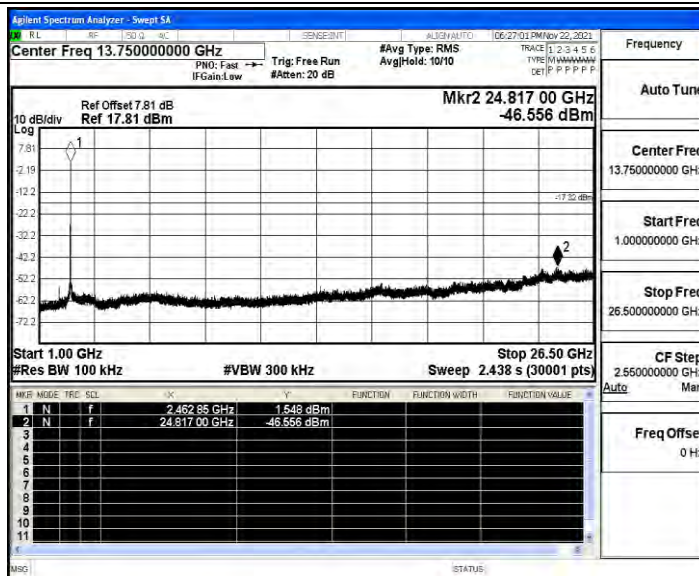
11B_Ant0_2462_0~Reference



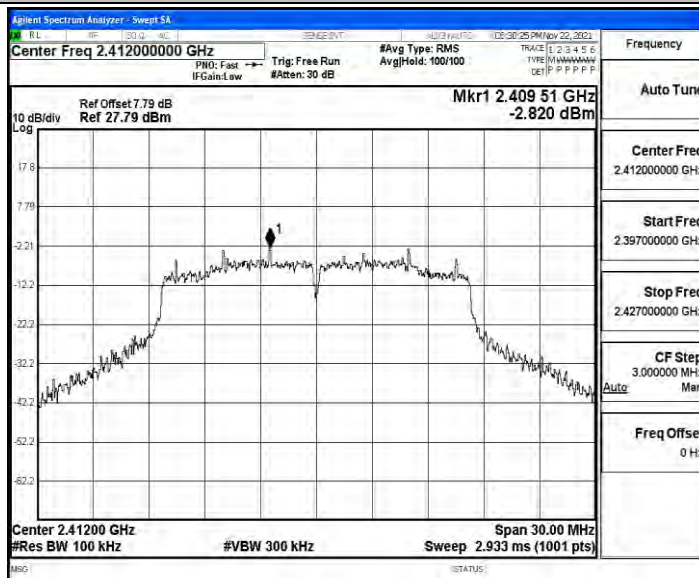
11B_Ant0_2462_30~1000



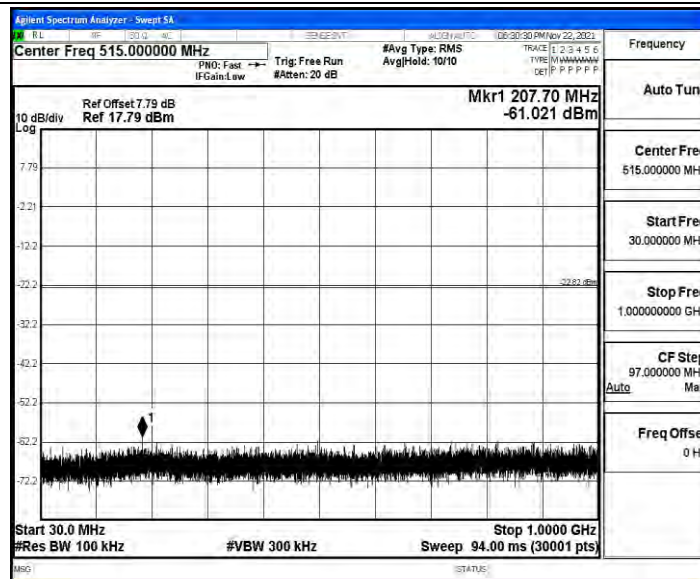
11B_Ant0_2462_1000~26500



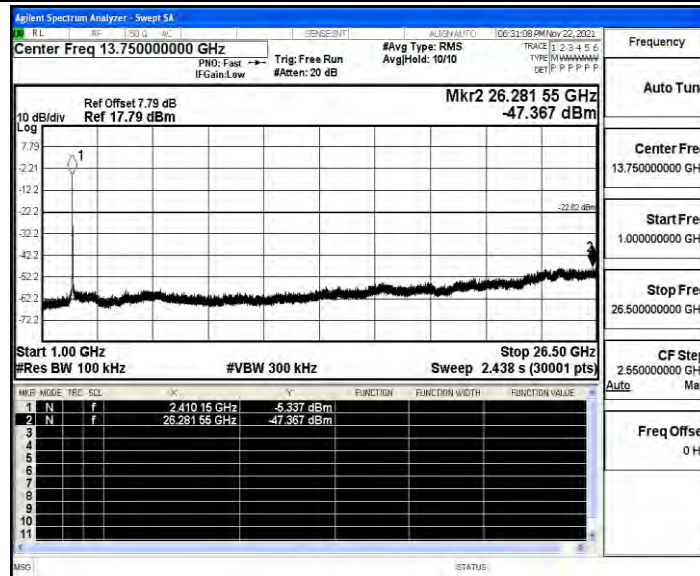
11G_Ant0_2412_0~Reference



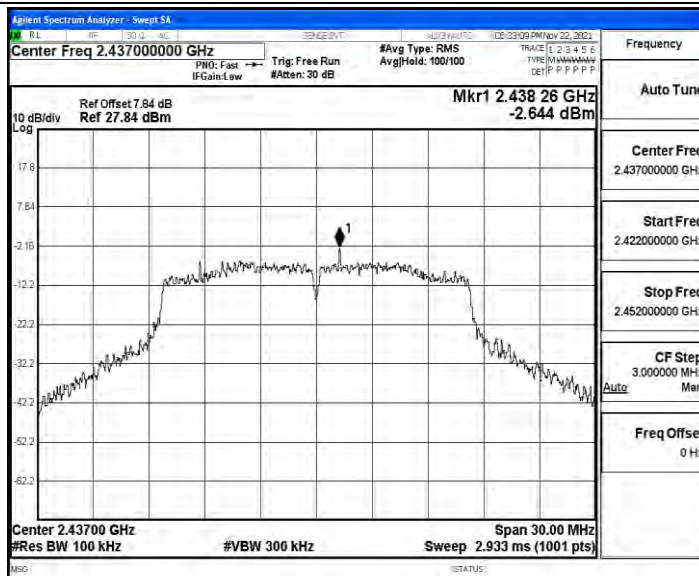
11G_Ant0_2412_30~1000



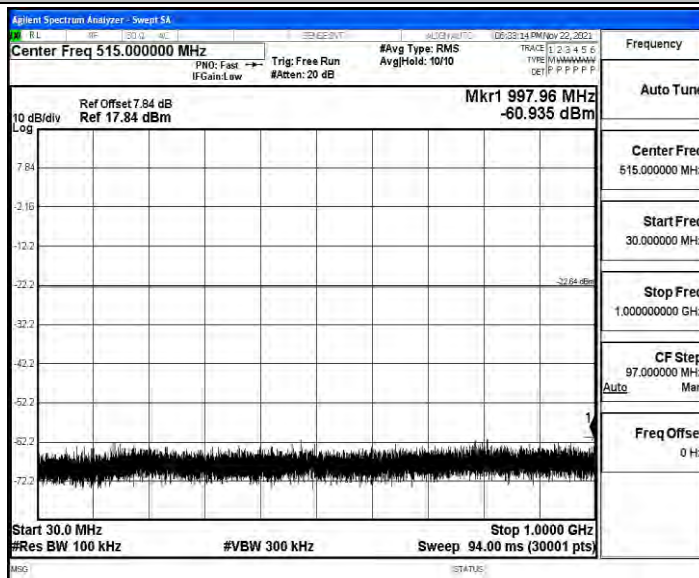
11G_Ant0_2412_1000~26500



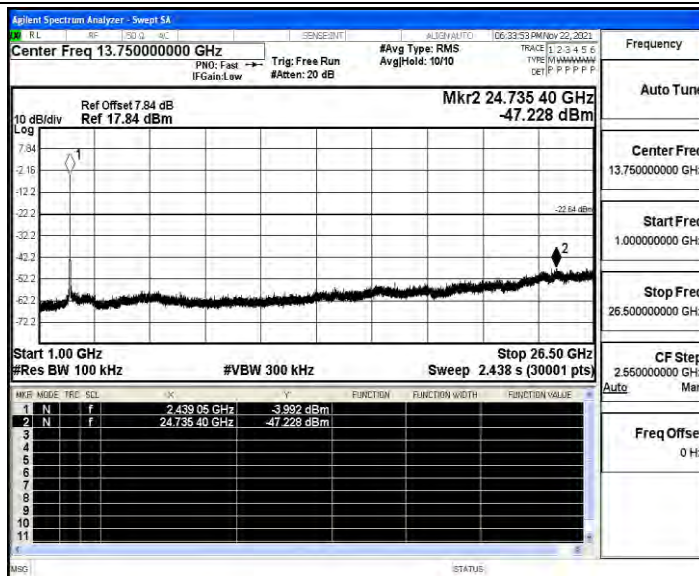
11G_Ant0_2437_0~Reference



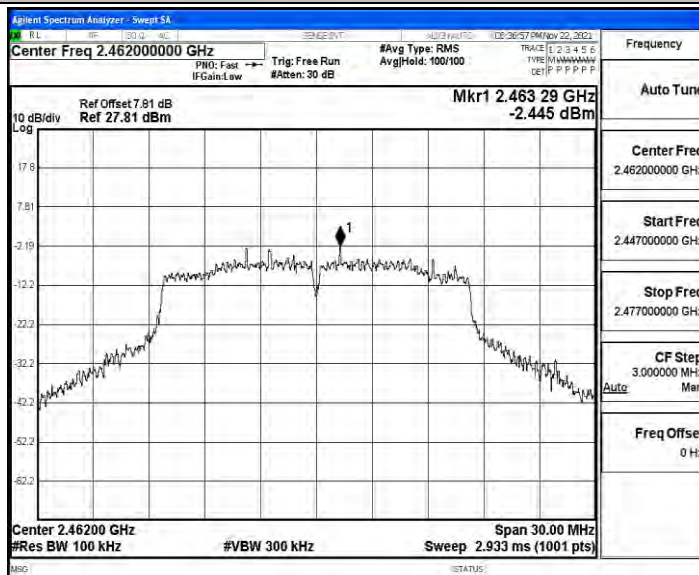
11G_Ant0_2437_30~1000



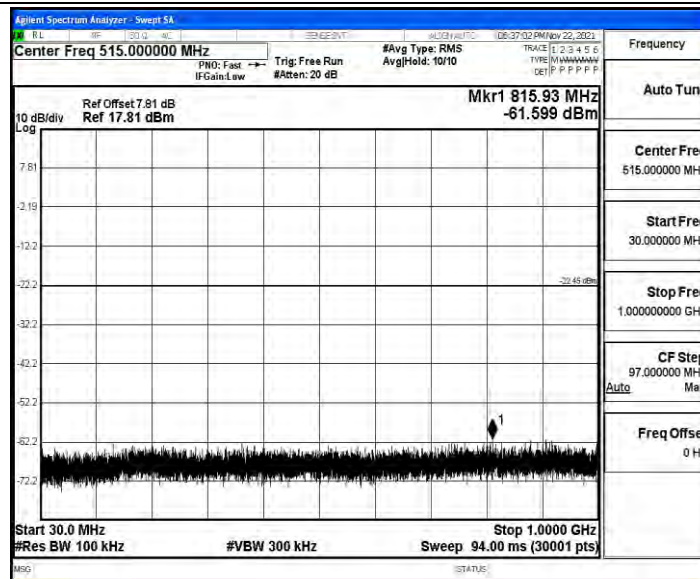
11G_Ant0_2437_1000~26500



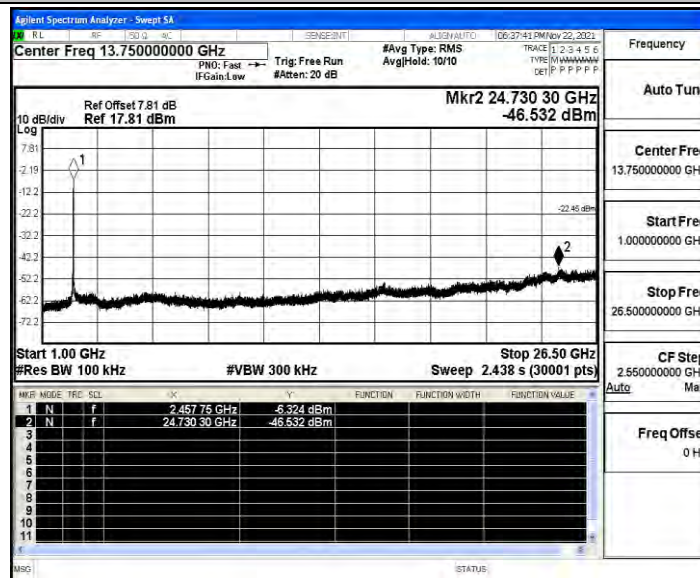
11G_Ant0_2462_0~Reference



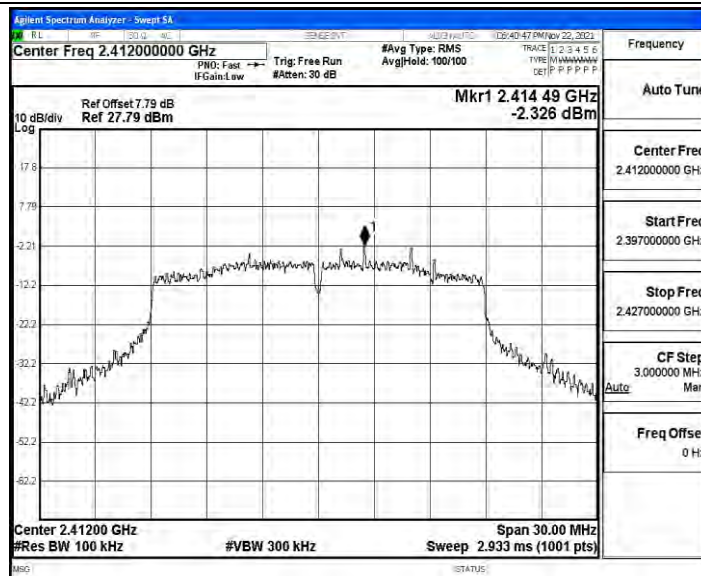
11G_Ant0_2462_30~1000



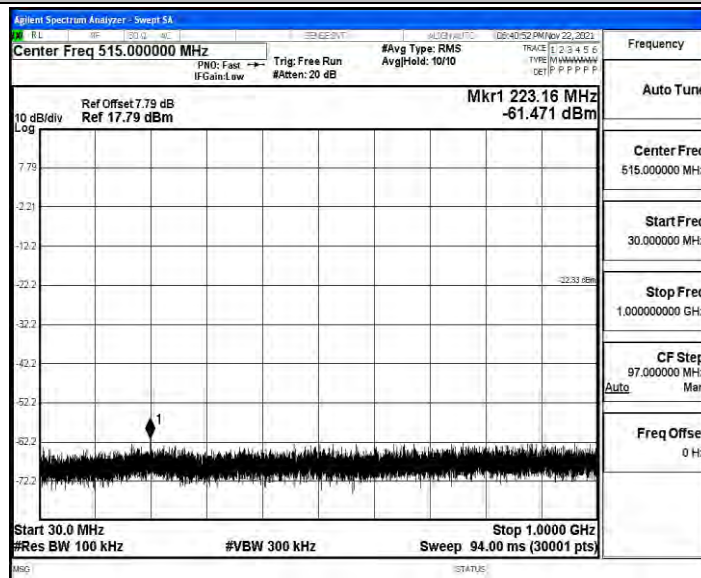
11G_Ant0_2462_1000~26500



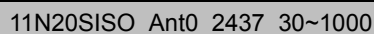
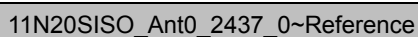
11N20SISO_Ant0_2412_0~Reference

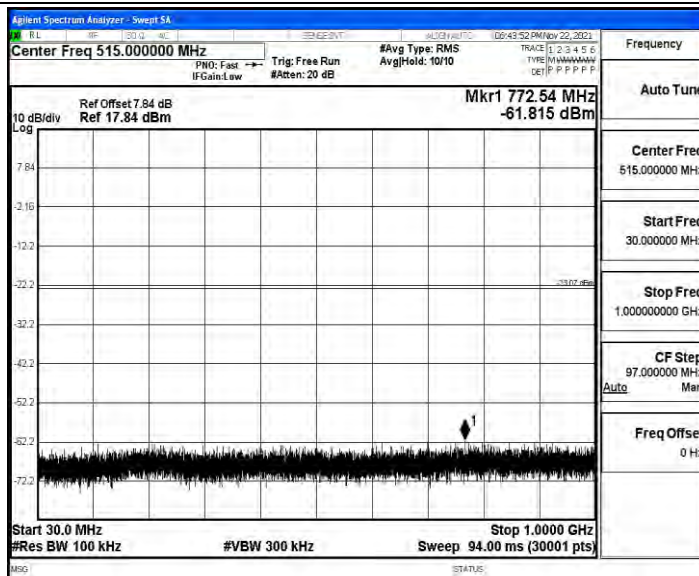


11N20SISO_Ant0_2412_30~1000

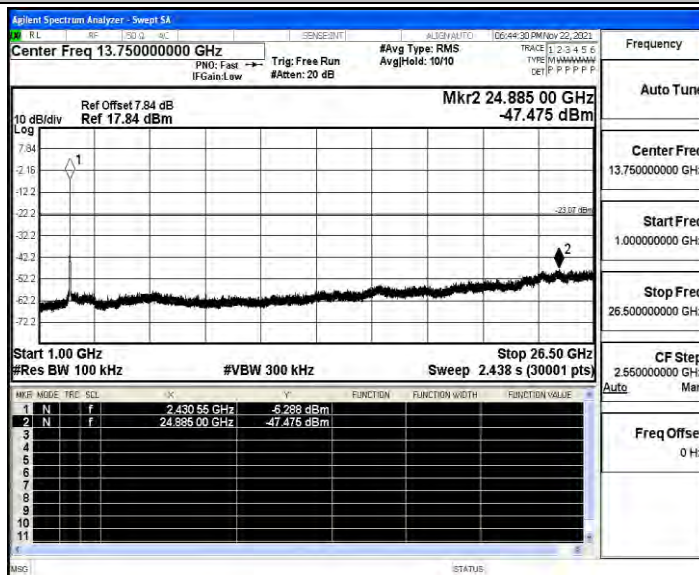


11N20SISO_Ant0_2412_1000~26500

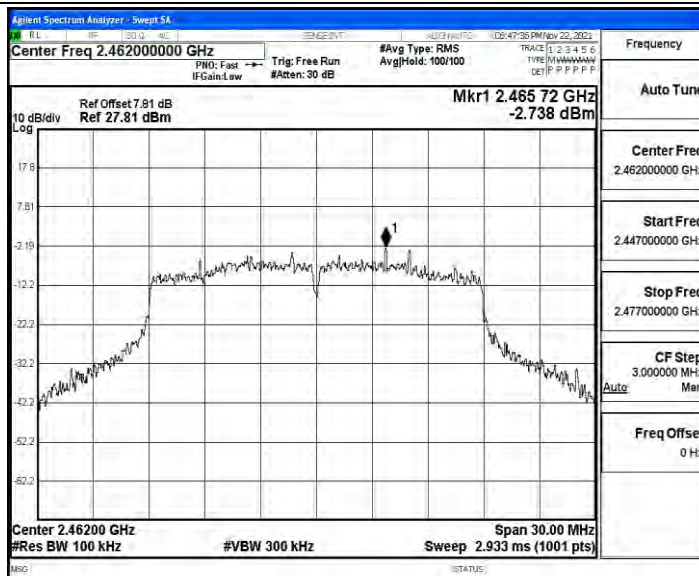




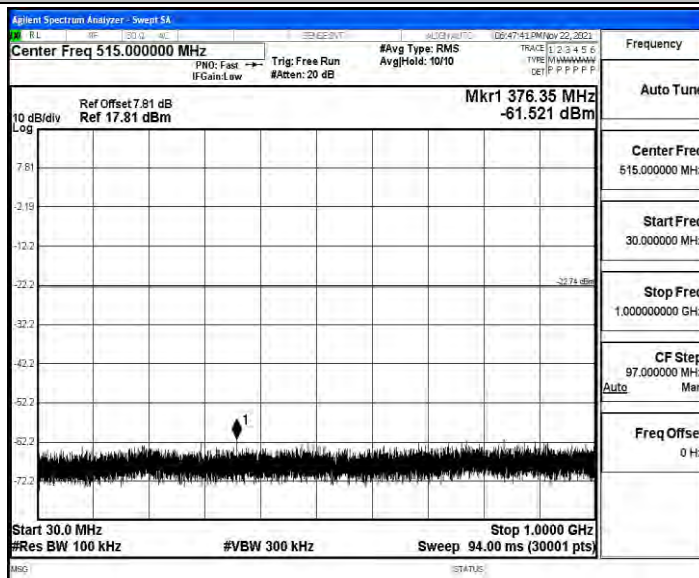
11N20SISO_Ant0_2437_1000~26500



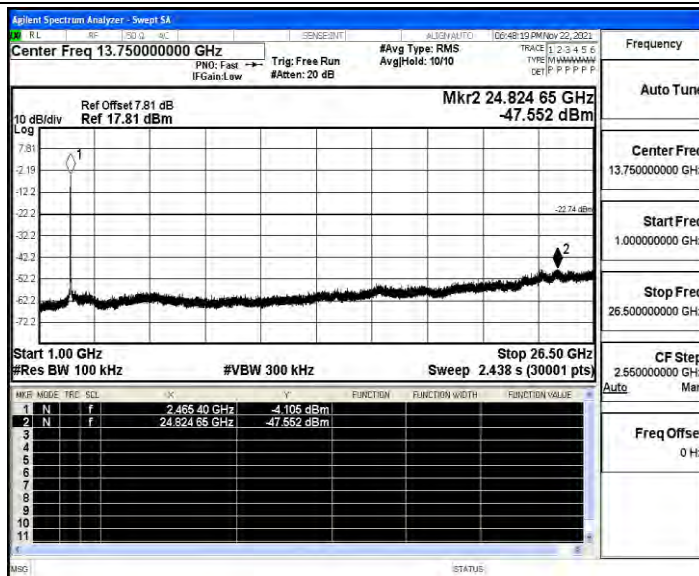
11N20SISO_Ant0_2462_0~Reference



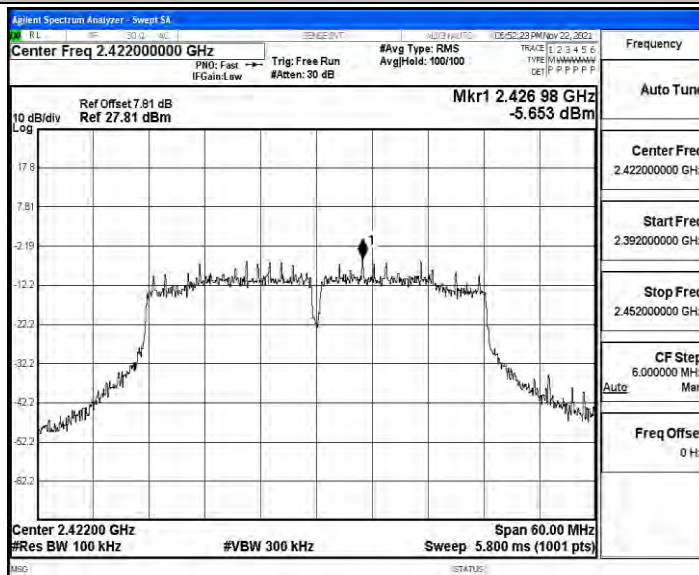
11N20SISO_Ant0_2462_30~1000



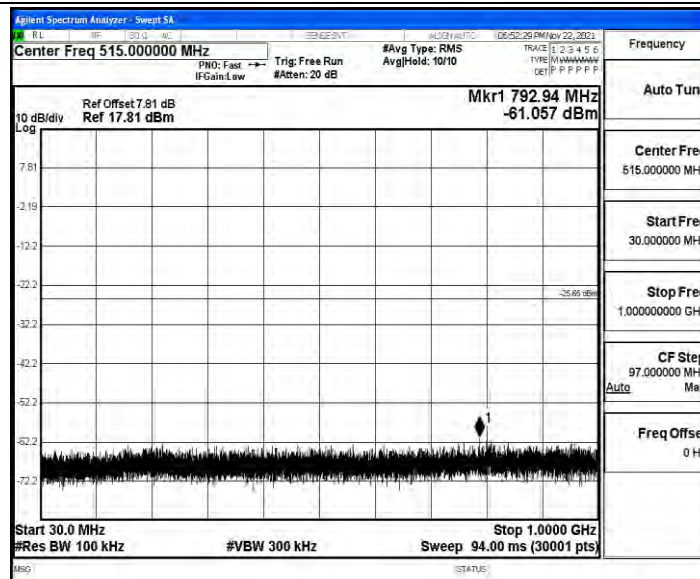
11N20SISO_Ant0_2462_1000~26500



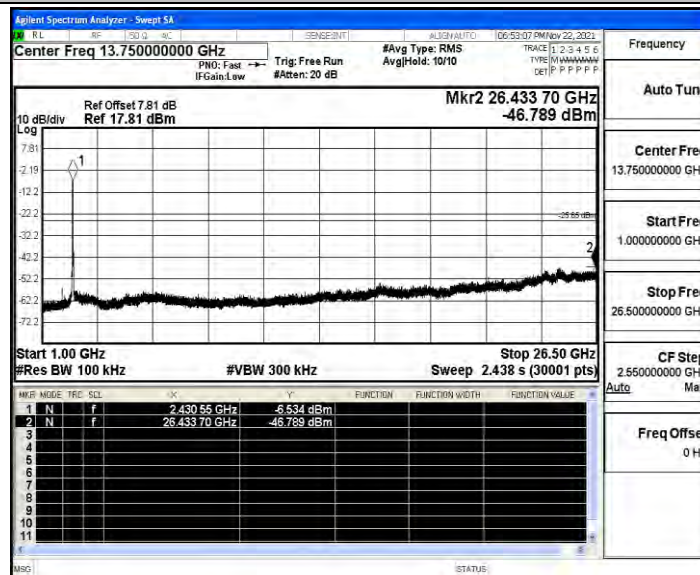
11N40SISO_Ant0_2422_0~Reference



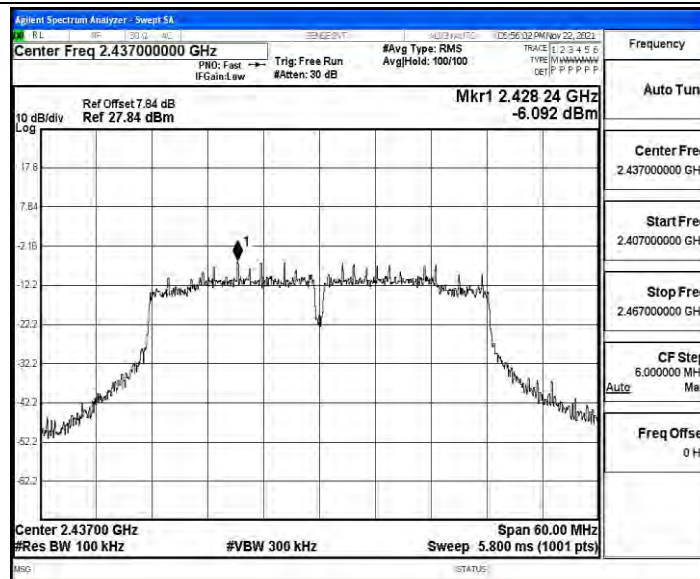
11N40SISO_Ant0_2422_30~1000



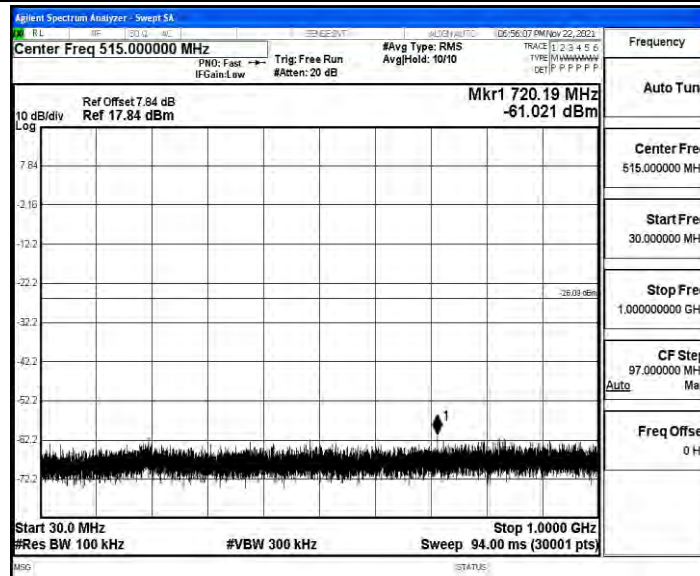
11N40SISO_Ant0_2422_1000~26500



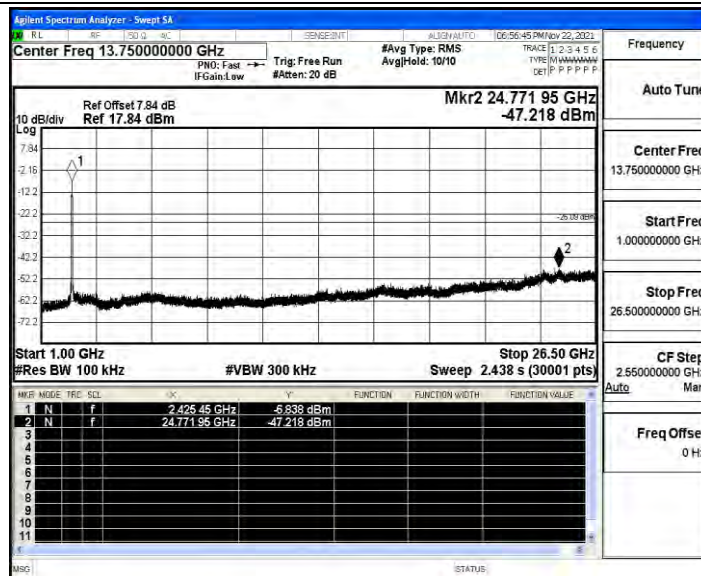
11N40SISO_Ant0_2437_0~Reference



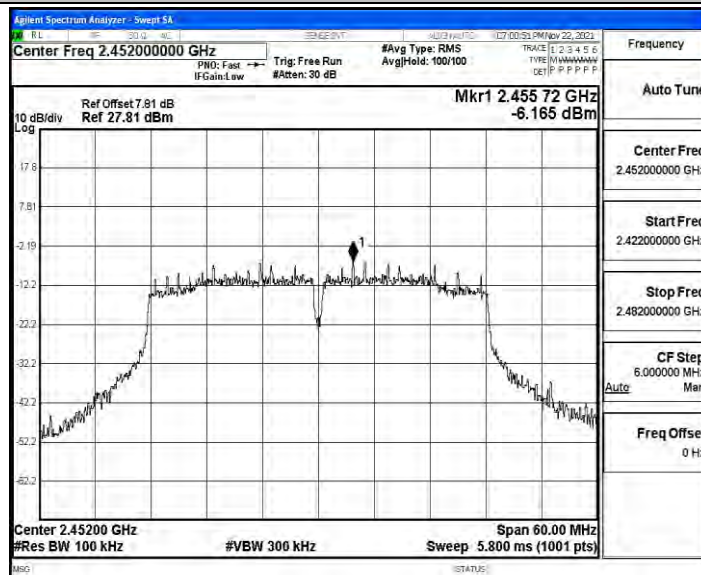
11N40SISO_Ant0_2437_30~1000



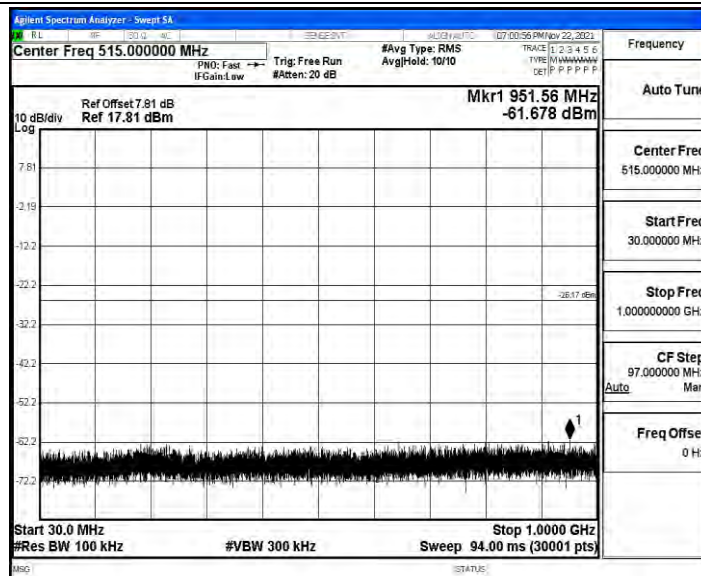
11N40SISO_Ant0_2437_1000~26500



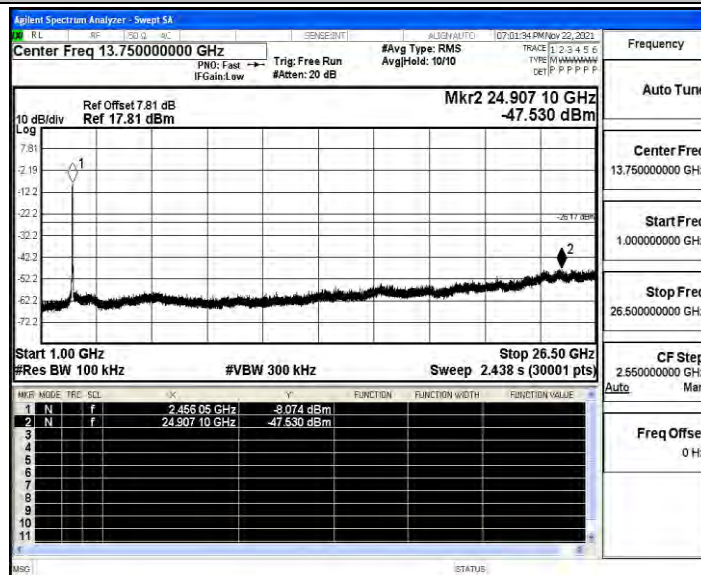
11N40SISO_Ant0_2452_0~Reference



11N40SISO_Ant0_2452_30~1000



11N40SISO_Ant0_2452_1000~26500



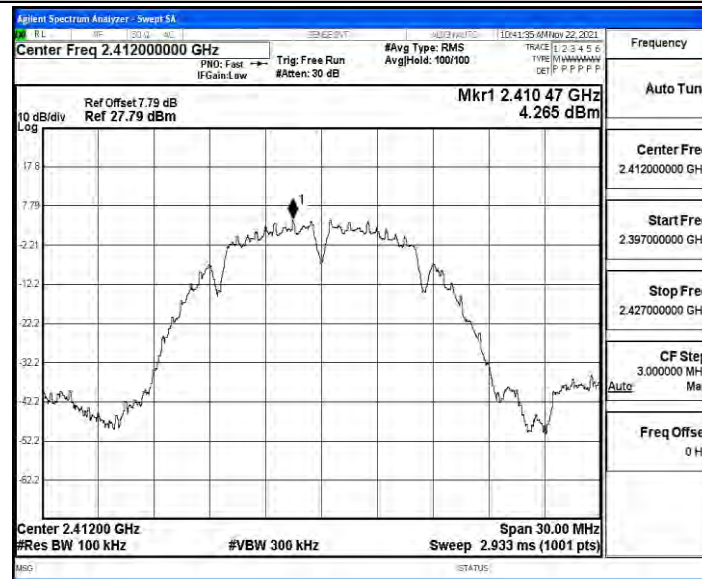


TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-61.34	≤-15.74	PASS
			1000~26500	4.27	-46.9	≤-15.74	PASS
		2437	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-61.45	≤-17.15	PASS
			1000~26500	2.85	-46.52	≤-17.15	PASS
		2462	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-61.43	≤-16.5	PASS
			1000~26500	3.50	-47.23	≤-16.5	PASS
11G	Ant1	2412	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-60.06	≤-20.42	PASS
			1000~26500	-0.42	-47.18	≤-20.42	PASS
		2437	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-61.52	≤-21.06	PASS
			1000~26500	-1.06	-46.8	≤-21.06	PASS
		2462	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-61.68	≤-21.14	PASS
			1000~26500	-1.14	-46.81	≤-21.14	PASS
11N20SISO	Ant1	2412	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-61.04	≤-20.2	PASS
			1000~26500	-0.20	-46.94	≤-20.2	PASS
		2437	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-61.79	≤-21.33	PASS
			1000~26500	-1.33	-47.18	≤-21.33	PASS
		2462	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-62	≤-21.32	PASS
			1000~26500	-1.32	-47.41	≤-21.32	PASS
11N40SISO	Ant1	2422	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-60.95	≤-23.88	PASS
			1000~26500	-3.88	-47.18	≤-23.88	PASS
		2437	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-61.78	≤-23.96	PASS
			1000~26500	-3.96	-47.09	≤-23.96	PASS
		2452	Reference	-3.99	-3.99	---	PASS
			30~1000	-3.99	-61.16	≤-23.99	PASS
			1000~26500	-3.99	-46.74	≤-23.99	PASS

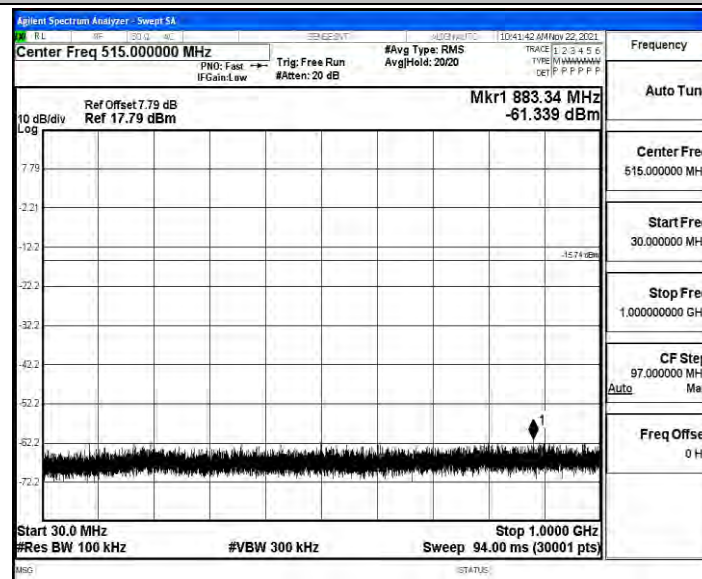


Test Graphs

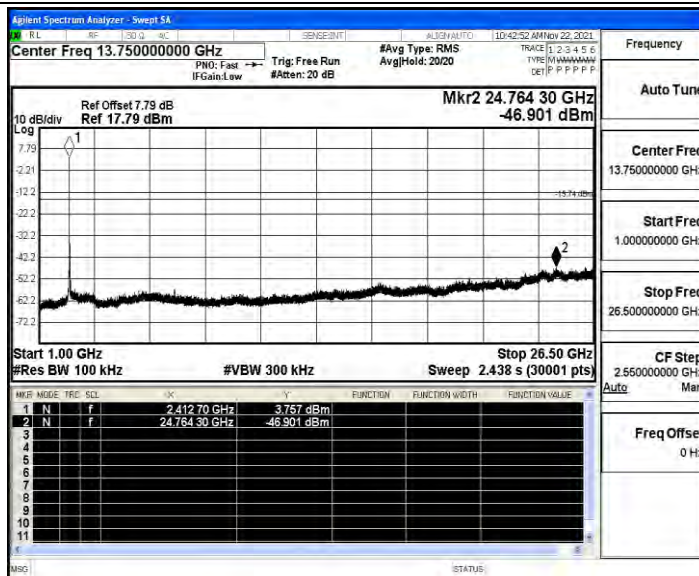
11B_Ant1_2412_0~Reference



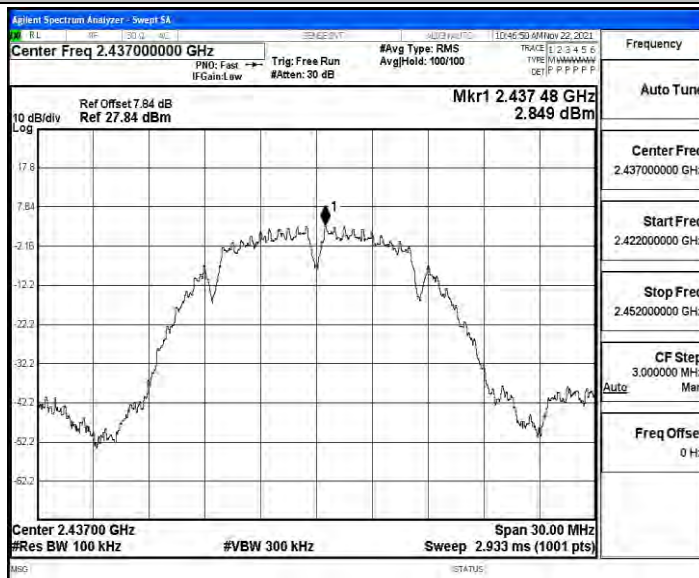
11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000