



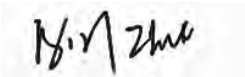
Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Video Doorbell Pro (Wi-Fi HomeBase)

Test Model: V8P1AX11

Environmental Conditions

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



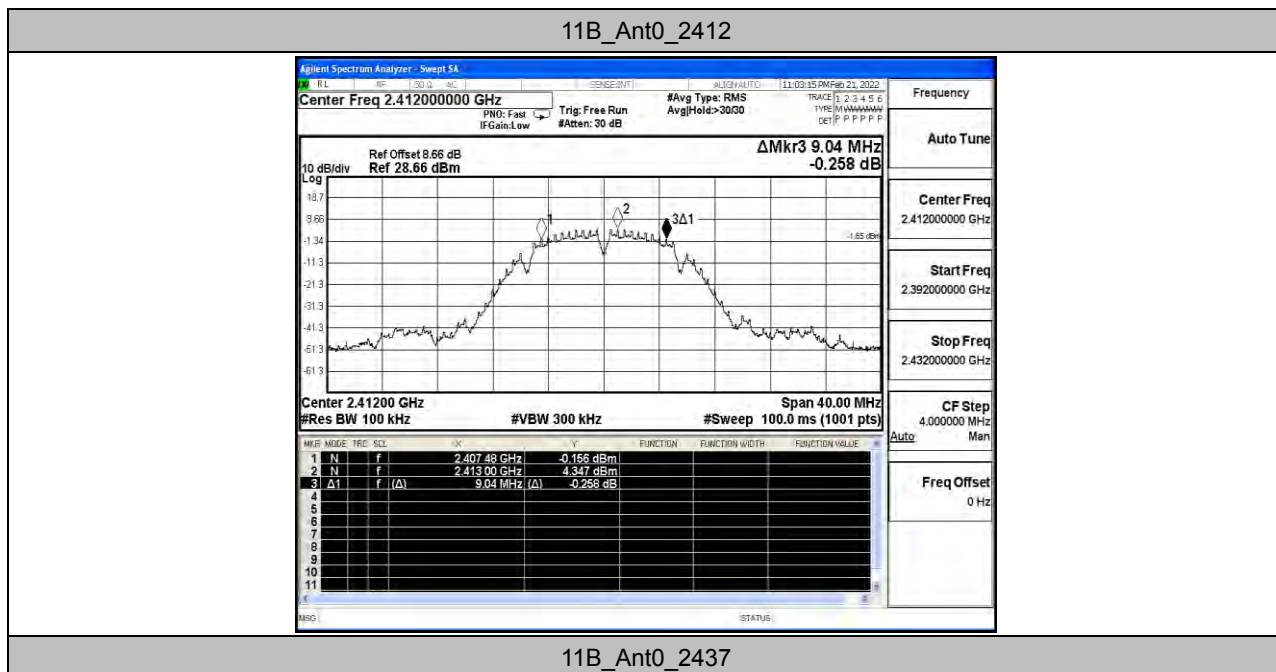
A.1 6dB Bandwidth

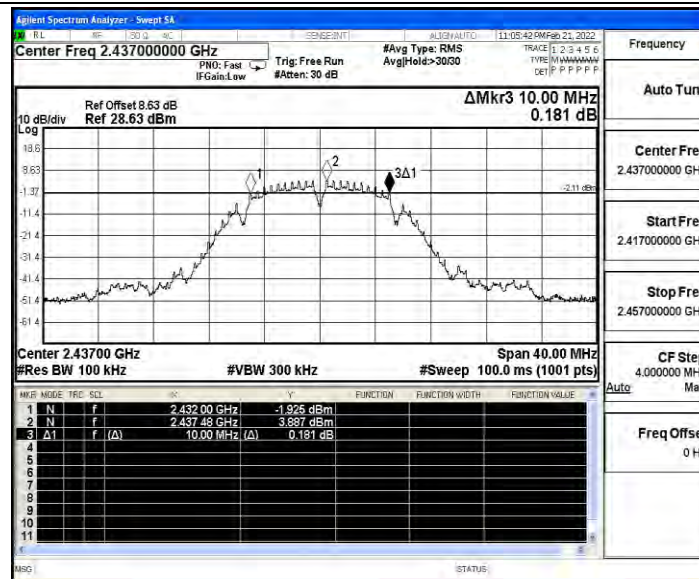
Test Result

Ant0

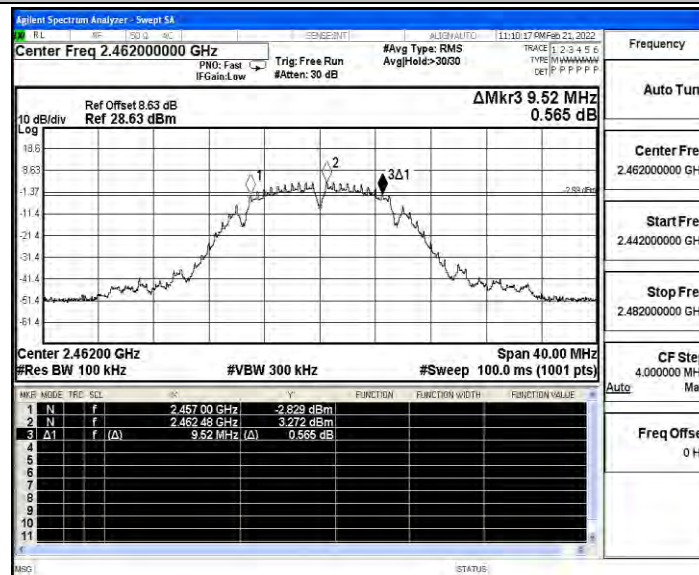
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant0	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant0	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant0	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	35.920	2419.160	2455.080	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS

Test Graphs

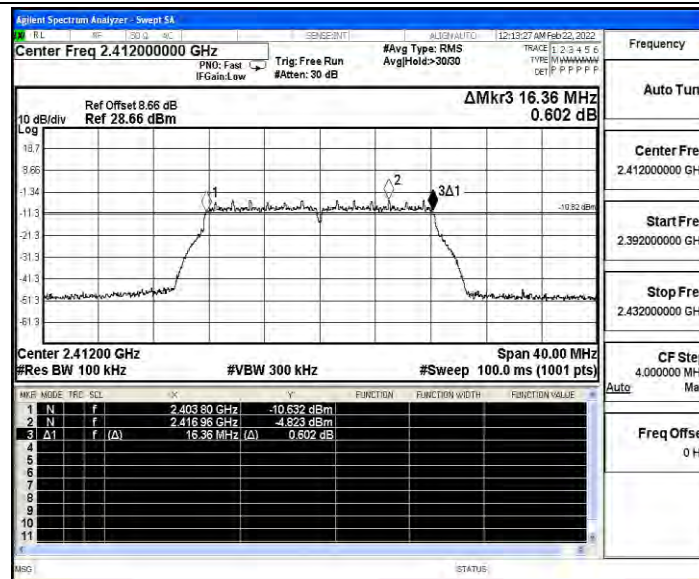




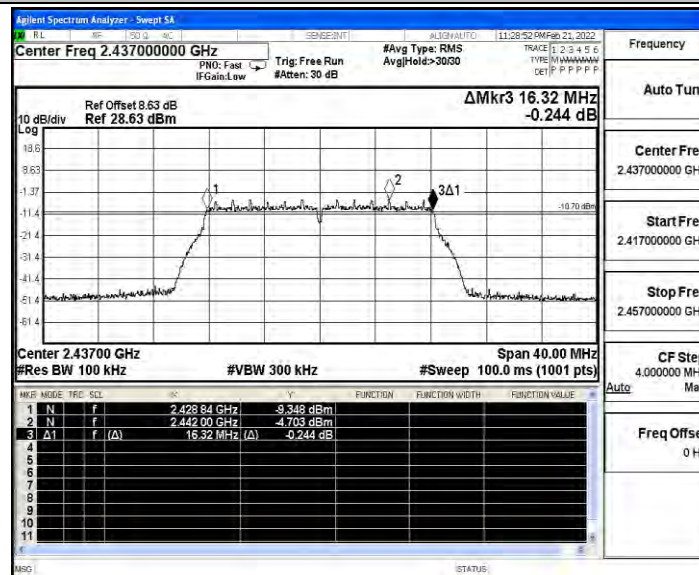
11B_Ant0_2462



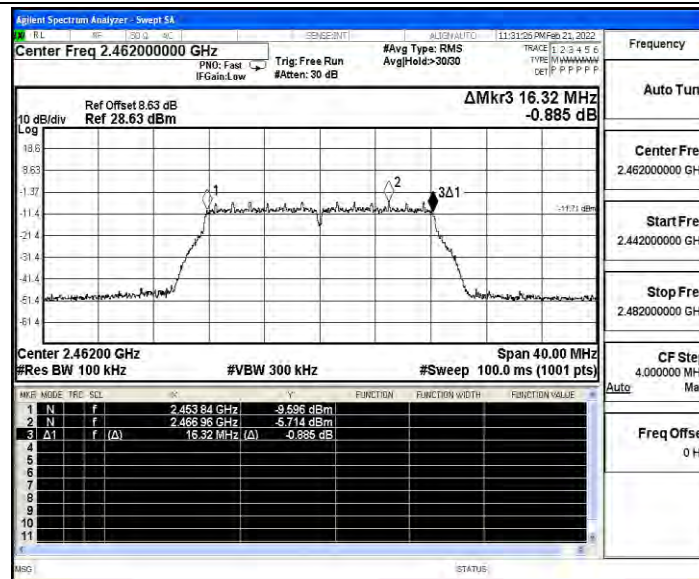
11G_Ant0_2412



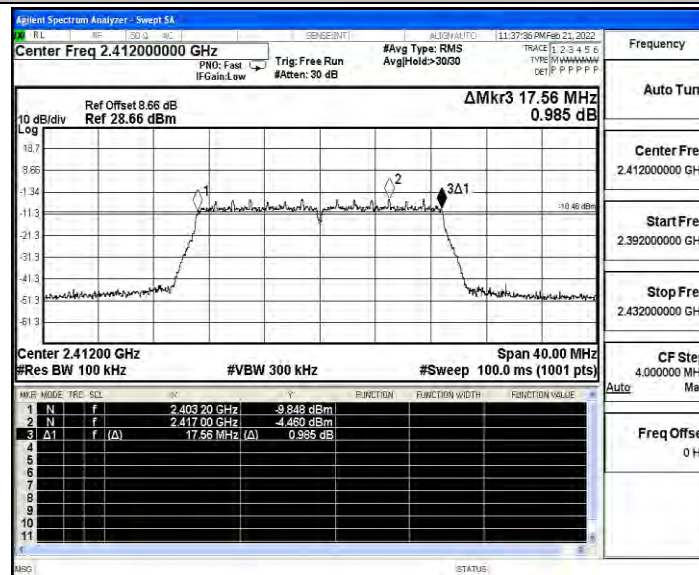
11G_Ant0_2437



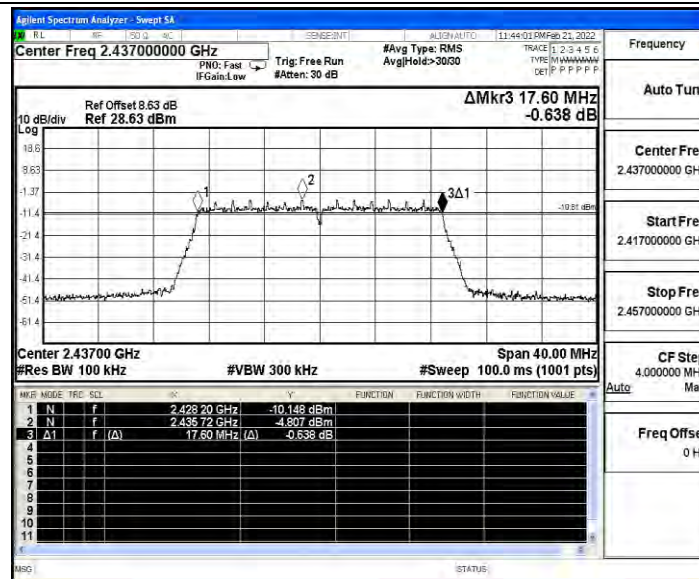
11G_Ant0_2462



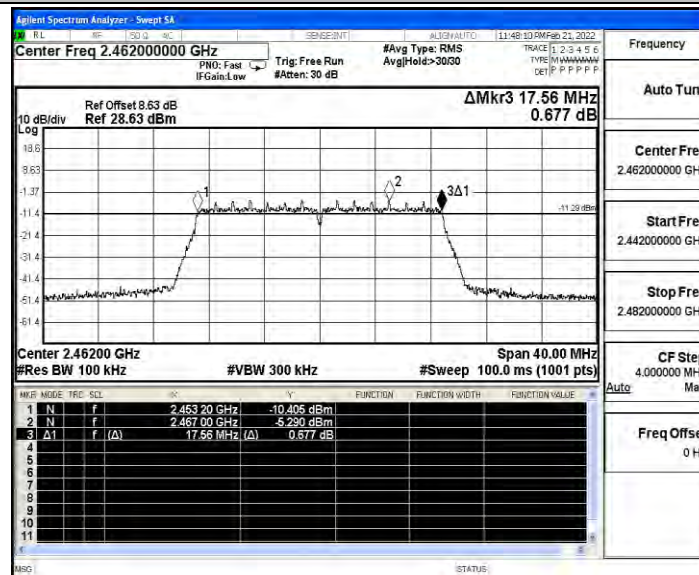
11N20SISO_Ant0_2412



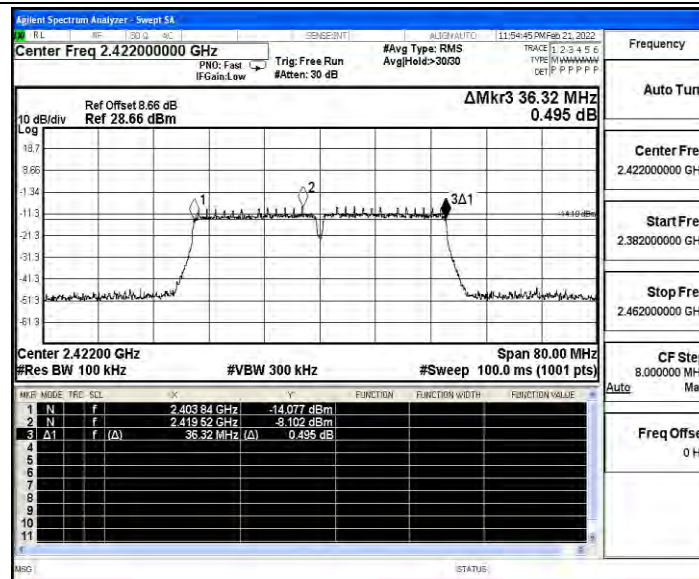
11N20SISO_Ant0_2437



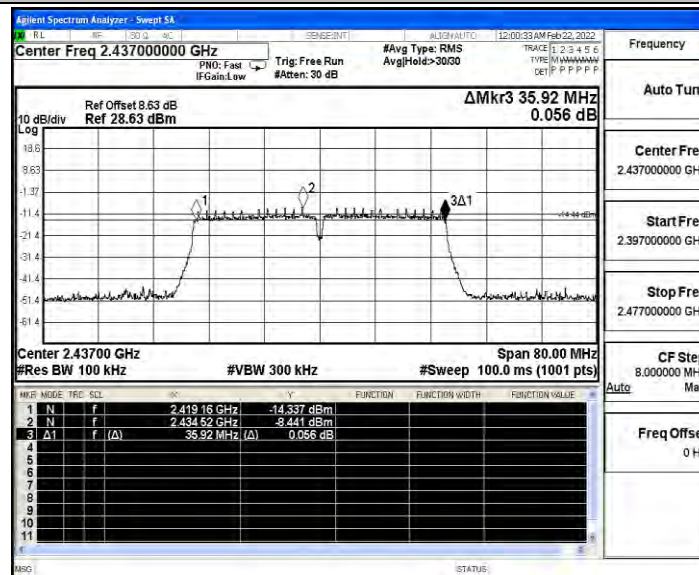
11N20SISO_Ant0_2462



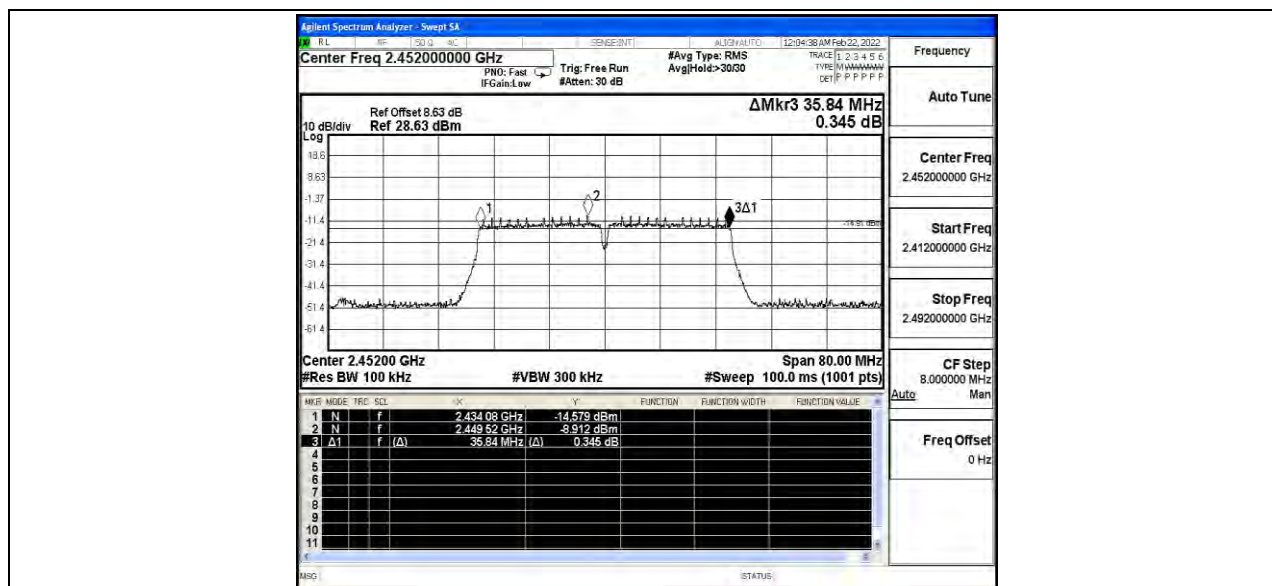
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452

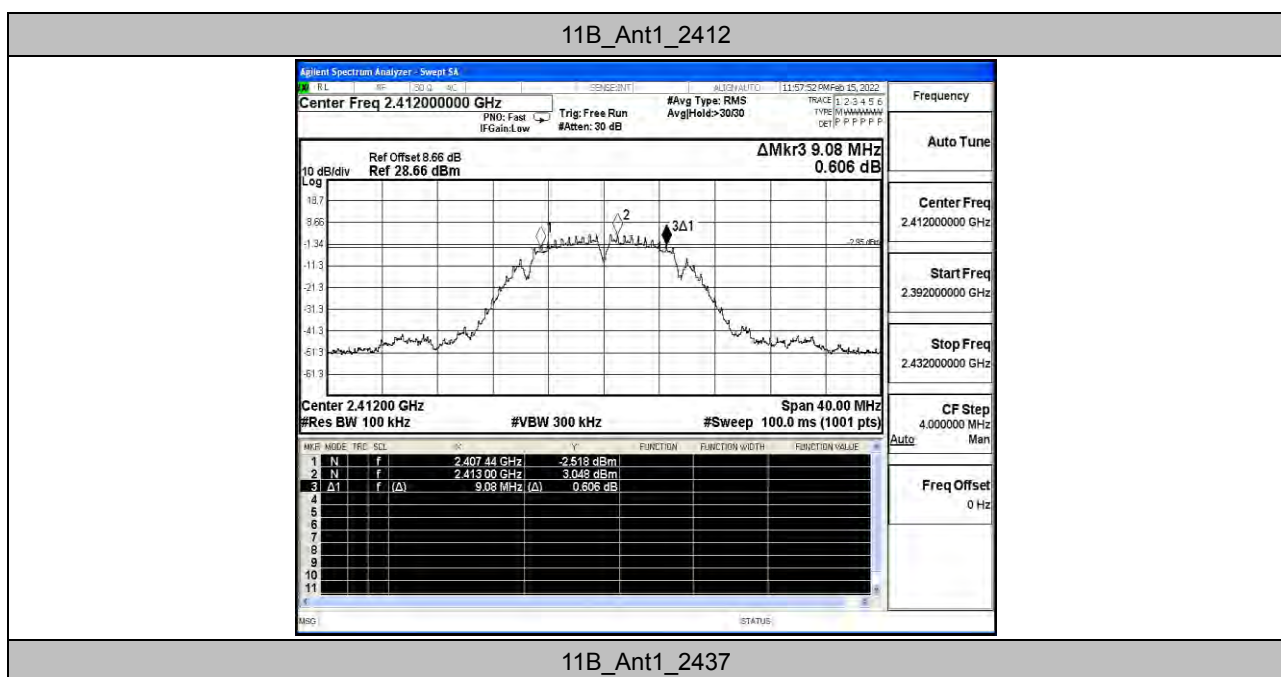


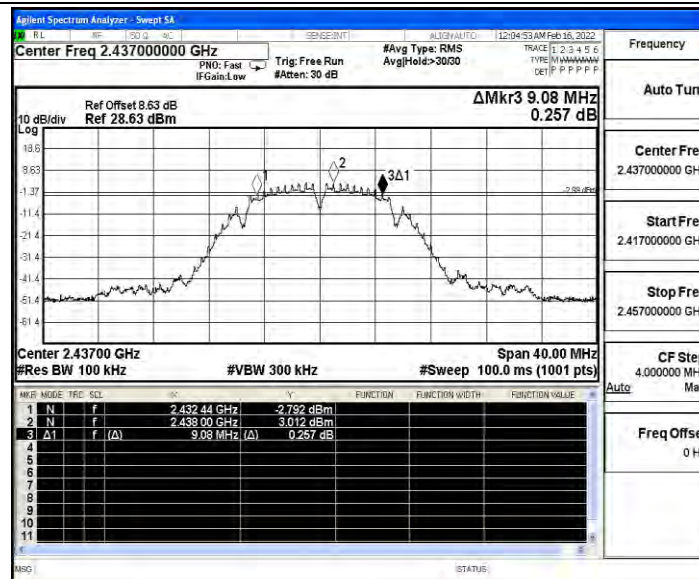


Ant1

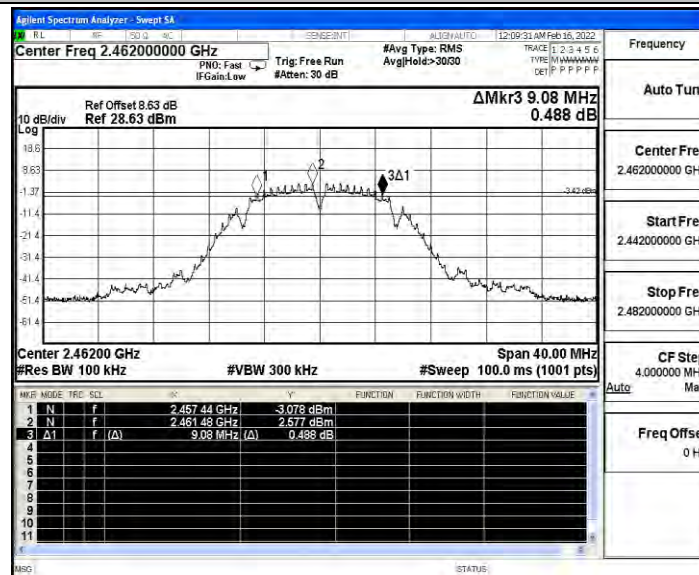
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	36.000	2434.080	2470.080	0.5	PASS

Test Graphs

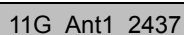
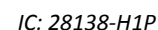


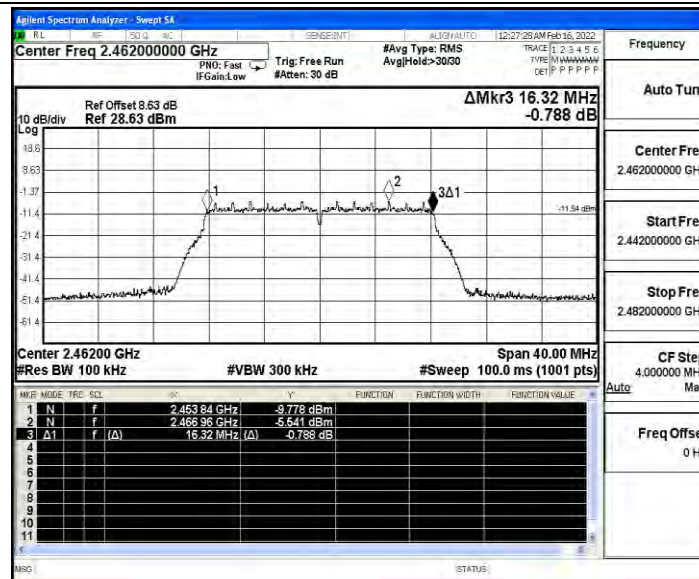


11B_Ant1_2462

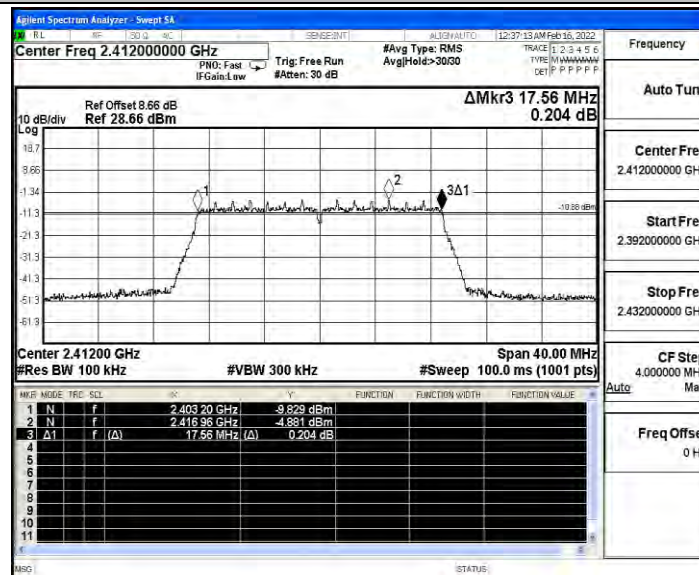


11G_Ant1_2412

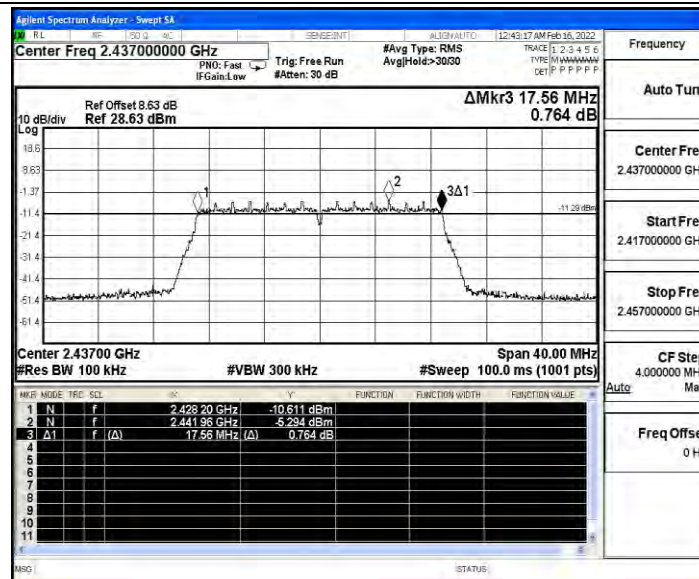




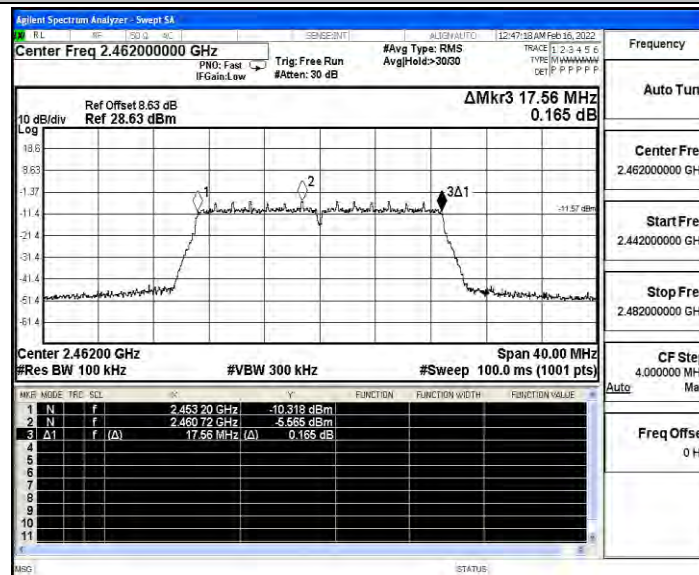
11N20SISO_Ant1_2412



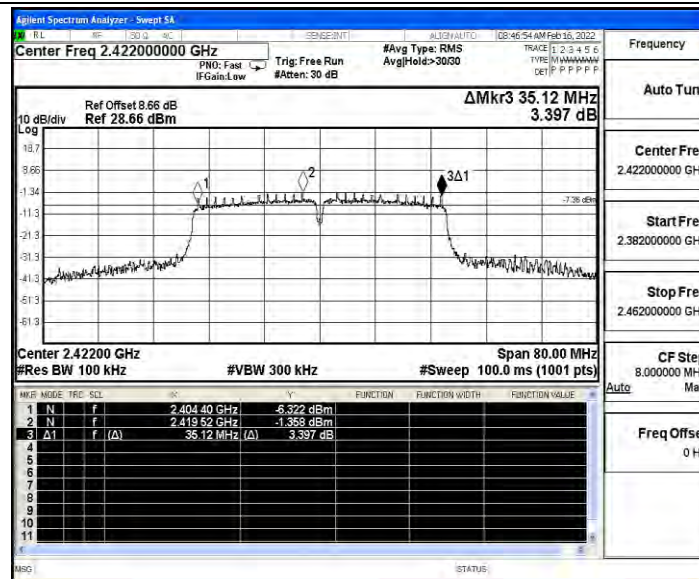
11N20SISO_Ant1_2437



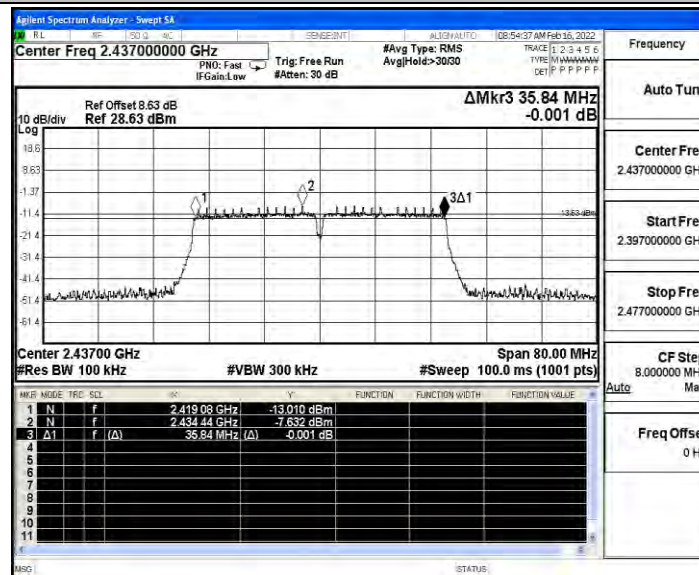
11N20SISO_Ant1_2462



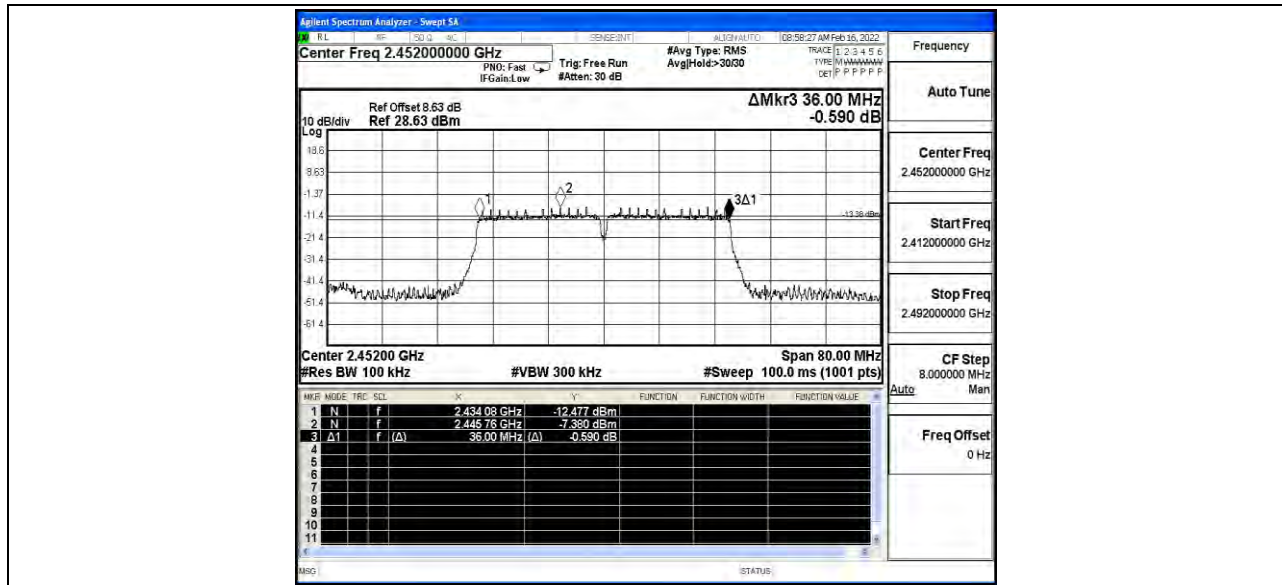
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.2 Occupied Channel Bandwidth

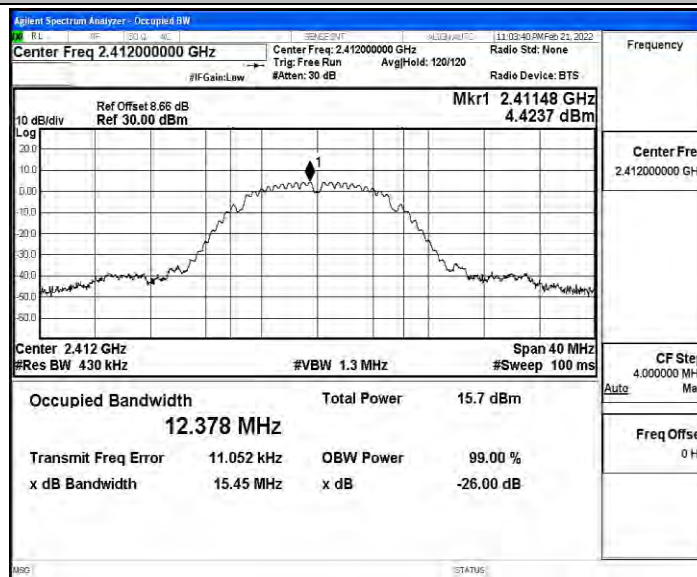
Ant0

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	12.378	2405.822	2418.200	---	---
		2437	12.351	2430.834	2443.185	---	---
		2462	12.373	2455.816	2468.189	---	---
11G	Ant0	2412	16.969	2403.473	2420.442	---	---
		2437	17.052	2428.454	2445.506	---	---
		2462	17.086	2453.413	2470.499	---	---
11N20SISO	Ant0	2412	17.966	2402.999	2420.965	---	---
		2437	17.924	2428.028	2445.952	---	---
		2462	17.896	2453.055	2470.951	---	---
11N40SISO	Ant0	2422	36.331	2403.854	2440.185	---	---
		2437	36.209	2418.906	2455.115	---	---
		2452	36.301	2433.797	2470.098	---	---

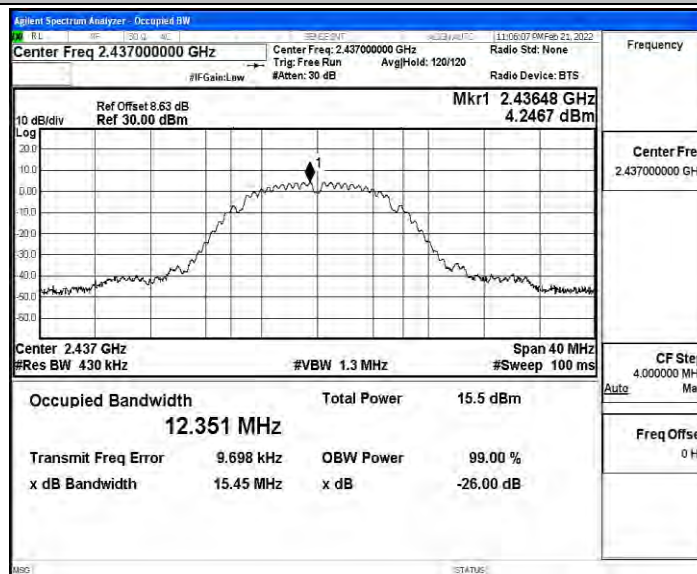


Test Graphs

11B_Ant0_2412



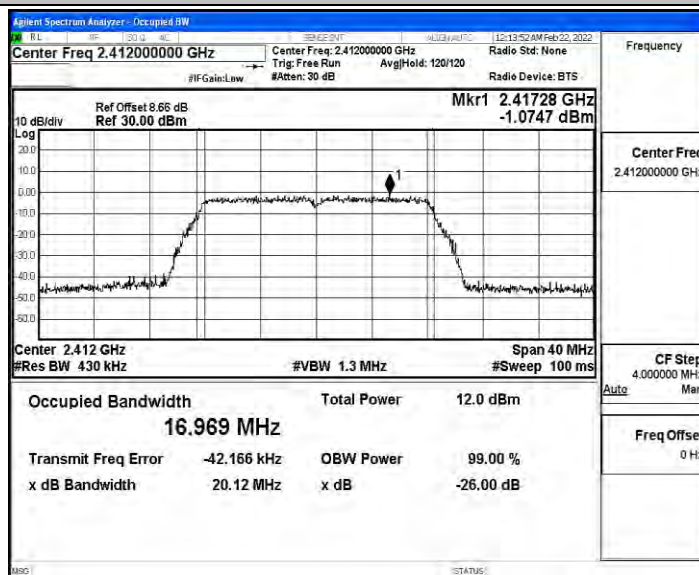
11B_Ant0_2437



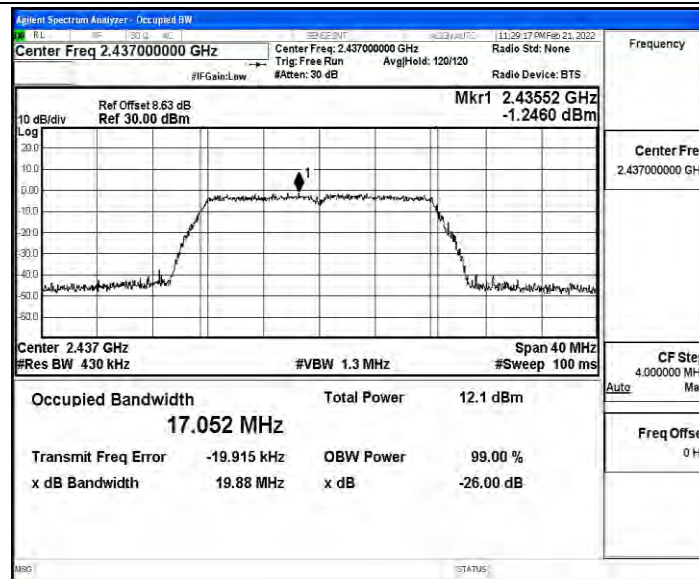
11B_Ant0_2462



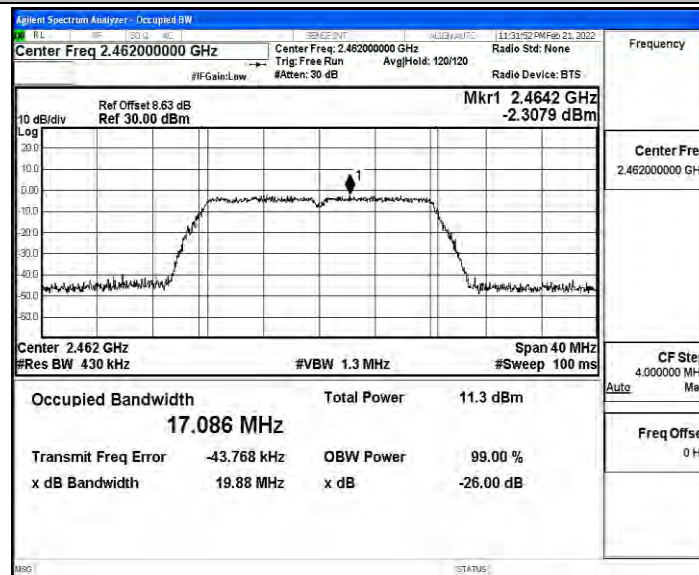
11G_Ant0_2412



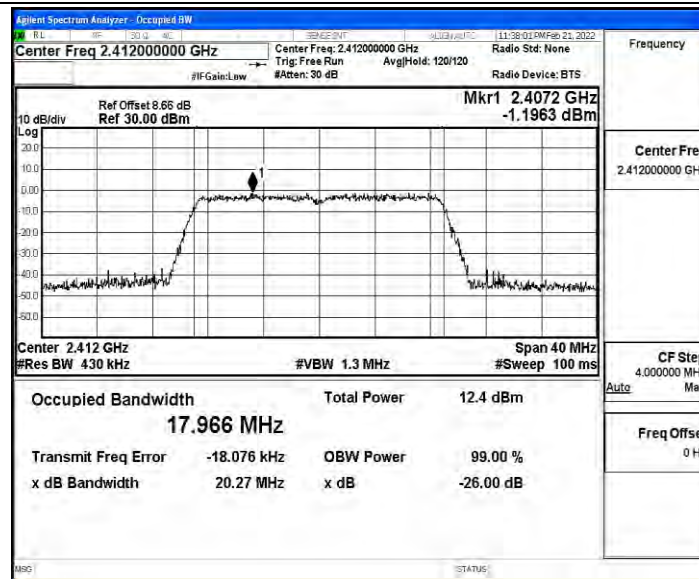
11G_Ant0_2437



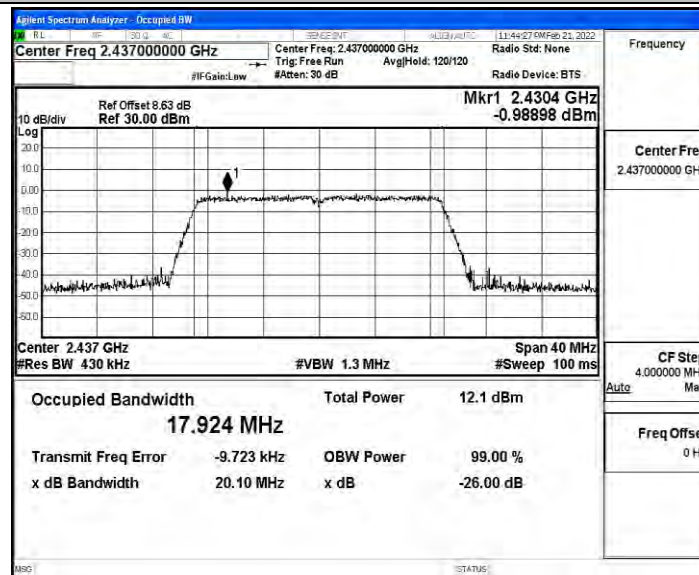
11G_Ant0_2462



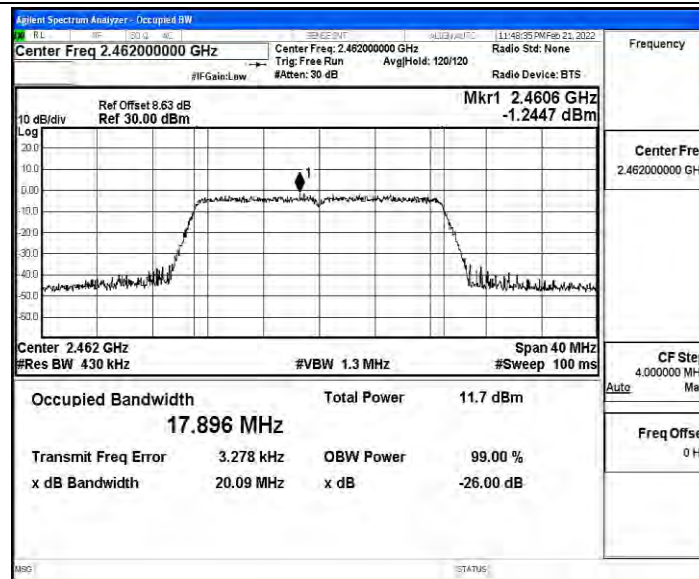
11N20SISO_Ant0_2412



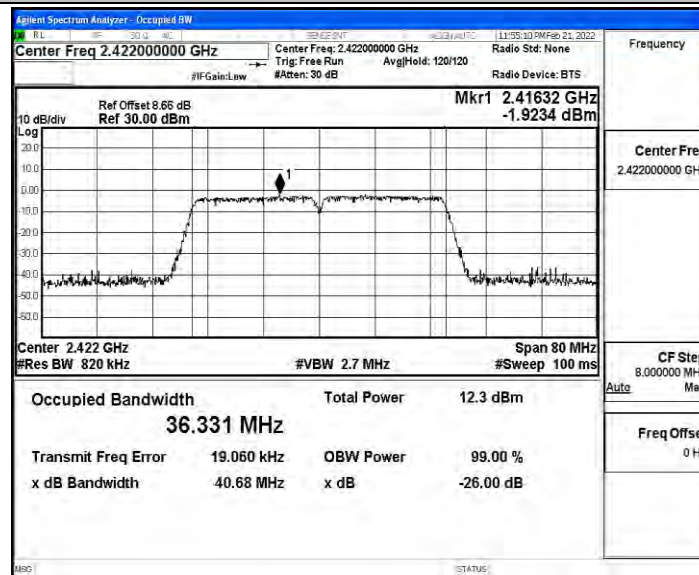
11N20SISO_Ant0_2437



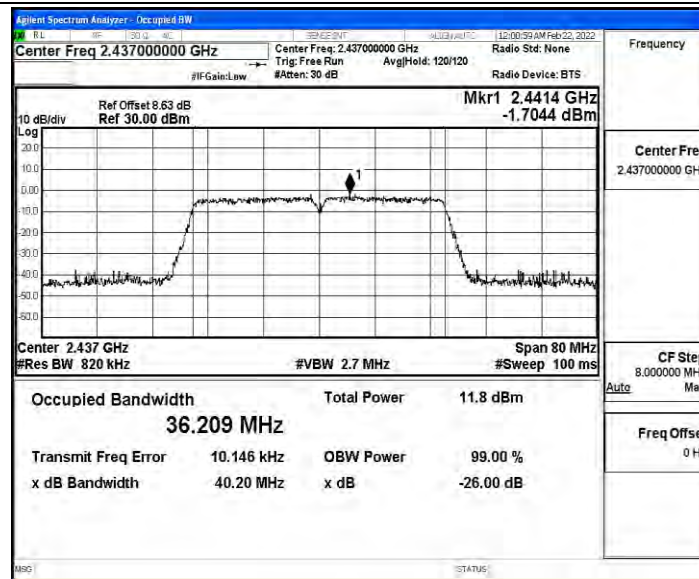
11N20SISO_Ant0_2462



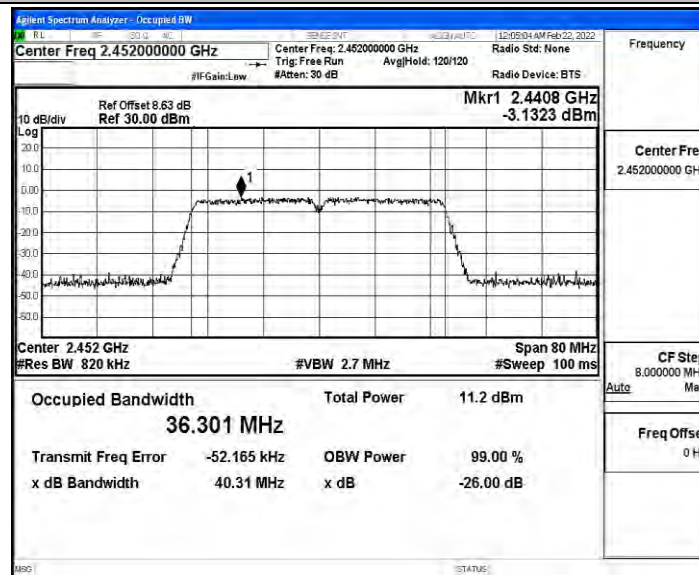
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452





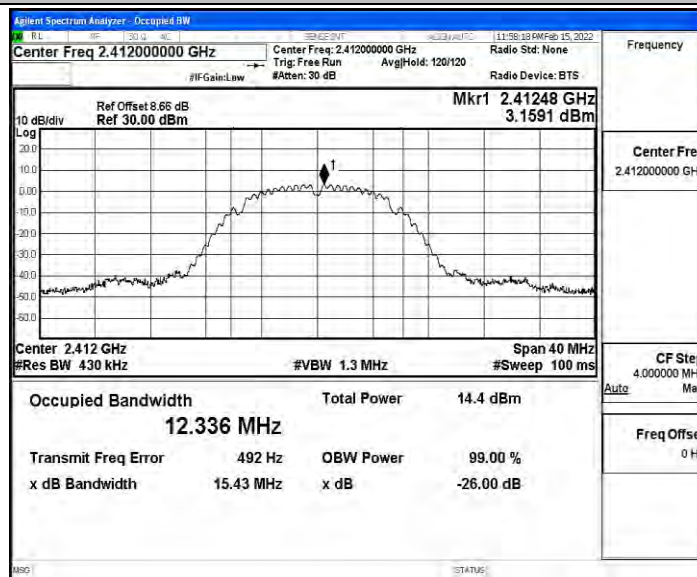
Ant1

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.336	2405.832	2418.168	---	---
		2437	12.329	2430.836	2443.165	---	---
		2462	12.365	2455.813	2468.178	---	---
11G	Ant1	2412	17.019	2403.505	2420.524	---	---
		2437	17.023	2428.481	2445.504	---	---
		2462	16.943	2453.530	2470.473	---	---
11N20SISO	Ant1	2412	17.933	2403.062	2420.995	---	---
		2437	17.917	2428.032	2445.949	---	---
		2462	17.932	2453.027	2470.959	---	---
11N40SISO	Ant1	2422	36.141	2403.982	2440.123	---	---
		2437	36.318	2418.882	2455.200	---	---
		2452	36.343	2433.859	2470.202	---	---

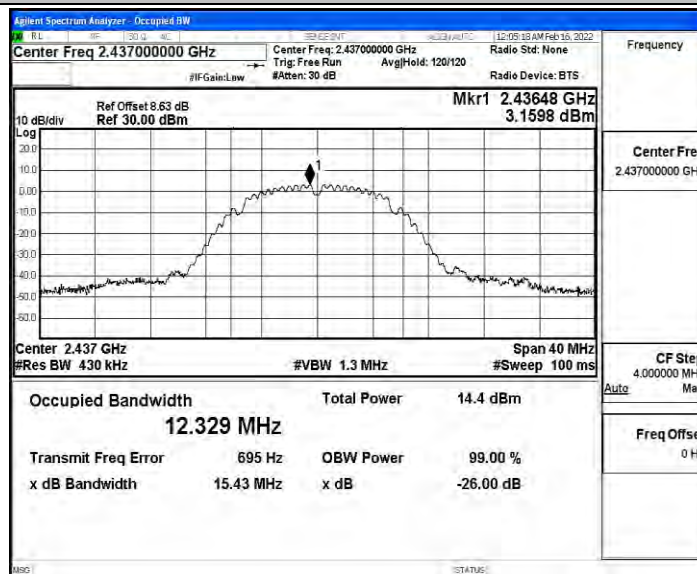


Test Graphs

11B_Ant1_2412



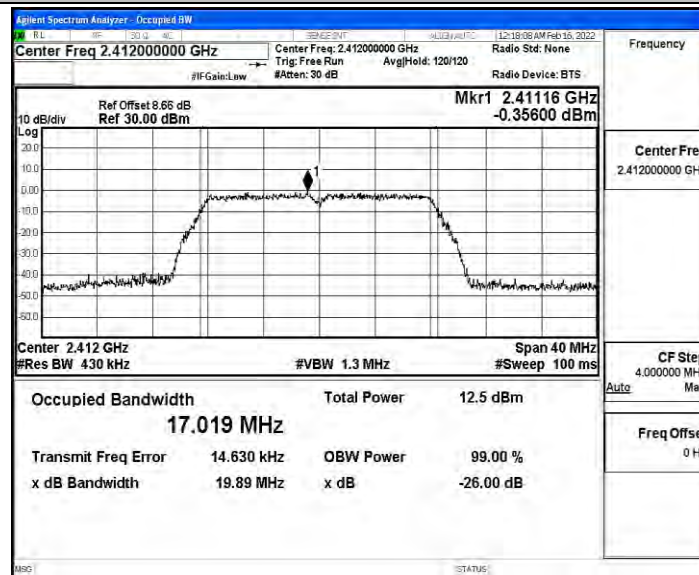
11B_Ant1_2437



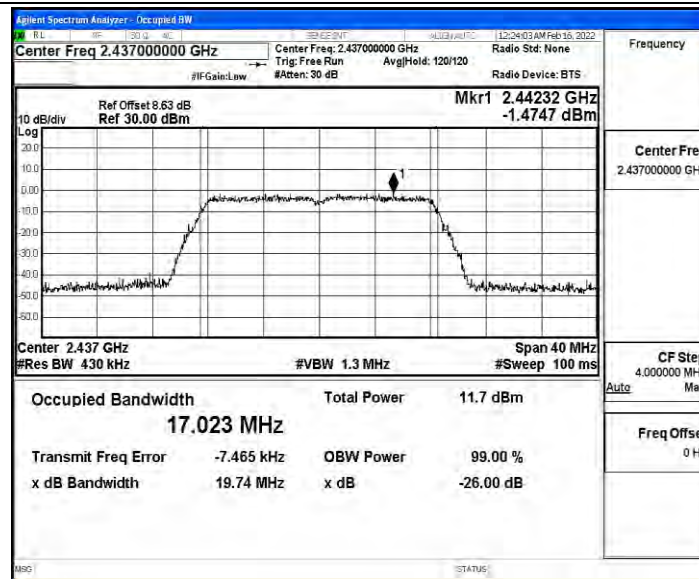
11B_Ant1_2462



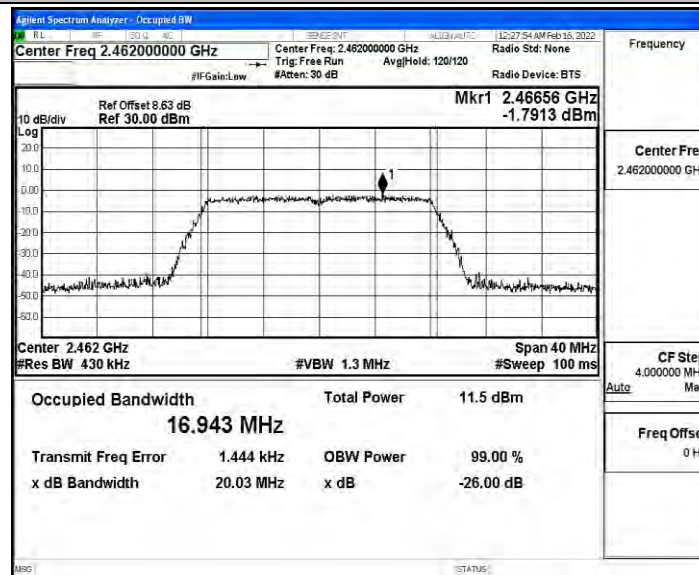
11G_Ant1_2412



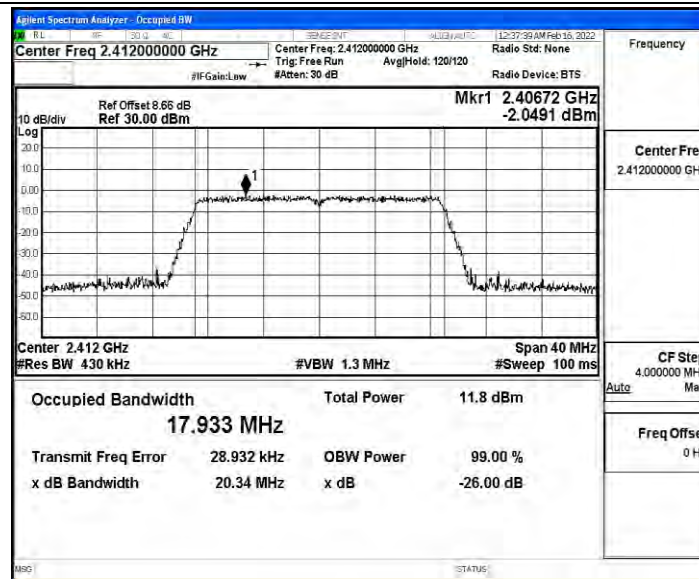
11G_Ant1_2437



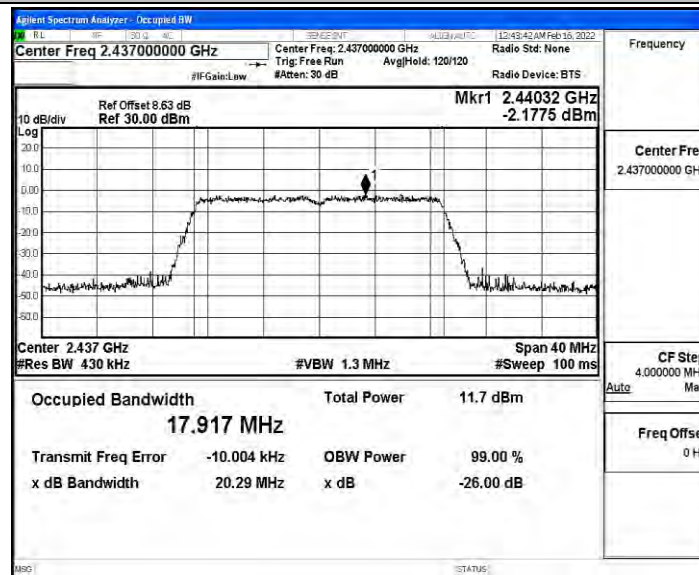
11G_Ant1_2462



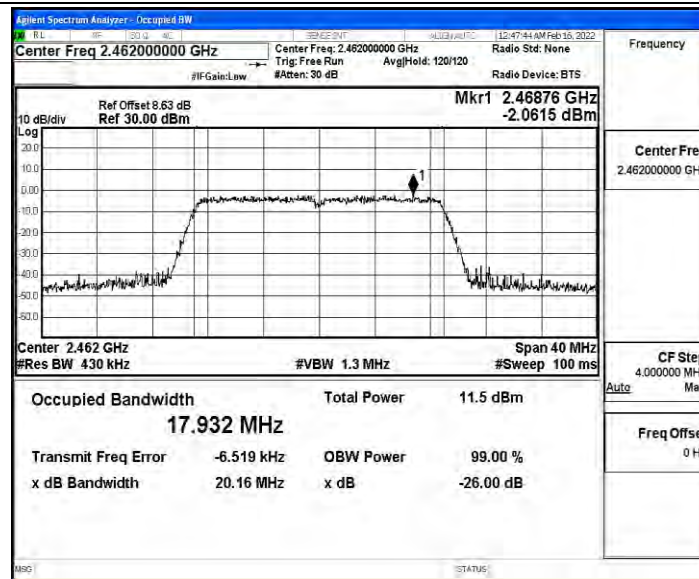
11N20SISO_Ant1_2412



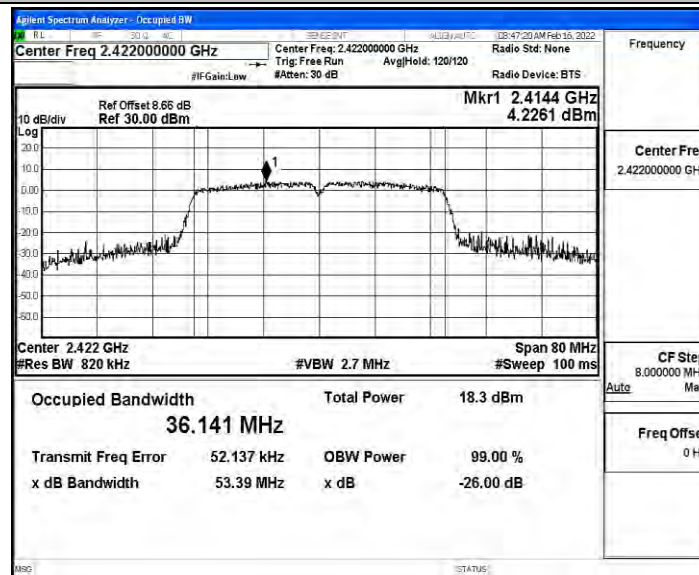
11N20SISO_Ant1_2437



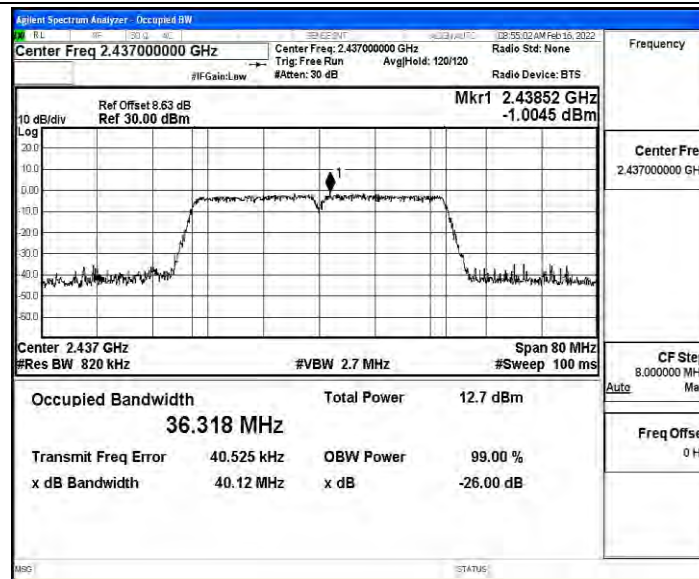
11N20SISO_Ant1_2462



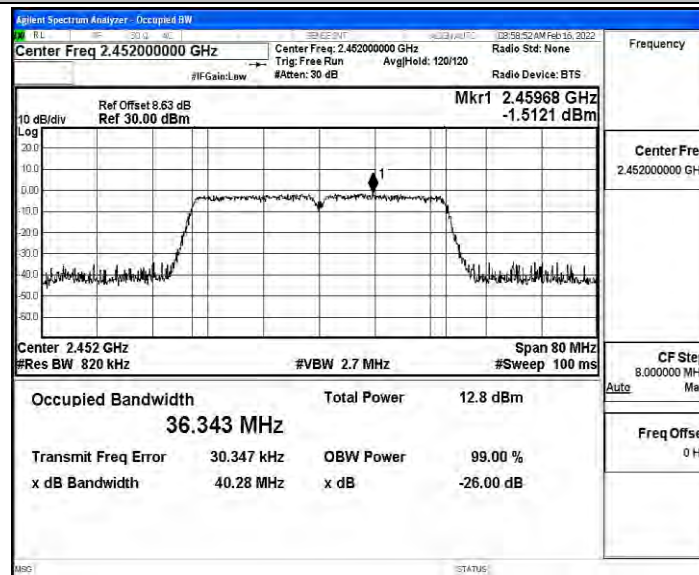
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.3 Maximum conducted output power

Test Result

Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	2412	15.94	14.63	/	≤30	PASS
	2437	15.72	14.63	/	≤30	PASS
	2462	14.92	14.38	/	≤30	PASS
11G	2412	14.56	15.06	/	≤30	PASS
	2437	14.75	14.17	/	≤30	PASS
	2462	13.79	13.96	/	≤30	PASS
11N20SISO	2412	14.05	14.53	17.31	≤30	PASS
	2437	14.60	14.17	17.40	≤30	PASS
	2462	14.24	13.94	17.10	≤30	PASS
11N40SISO	2422	14.33	14.21	17.28	≤30	PASS
	2437	13.85	14.63	17.27	≤30	PASS
	2452	13.21	14.90	17.15	≤30	PASS



A.4 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	-9.02	≤8.00	PASS
		2437	-9.46	≤8.00	PASS
		2462	-11.35	≤8.00	PASS
11G	Ant0	2412	-19.44	≤8.00	PASS
		2437	-18.91	≤8.00	PASS
		2462	-19.74	≤8.00	PASS
11N20SISO	Ant0	2412	-19.12	≤8.00	PASS
		2437	-19.26	≤8.00	PASS
		2462	-20.21	≤8.00	PASS
11N40SISO	Ant0	2422	-21.93	≤8.00	PASS
		2437	-22.68	≤8.00	PASS
		2452	-23.2	≤8.00	PASS

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.38	≤8.00	PASS
		2437	-11.43	≤8.00	PASS
		2462	-9.19	≤8.00	PASS
11G	Ant1	2412	-18.42	≤8.00	PASS
		2437	-19.33	≤8.00	PASS
		2462	-20.04	≤8.00	PASS
11N20SISO	Ant1	2412	-20.02	≤8.00	PASS
		2437	-19.7	≤8.00	PASS
		2462	-19.7	≤8.00	PASS
11N40SISO	Ant1	2422	-21.87	≤8.00	PASS
		2437	-21.72	≤8.00	PASS
		2452	-21.24	≤8.00	PASS

MIMO

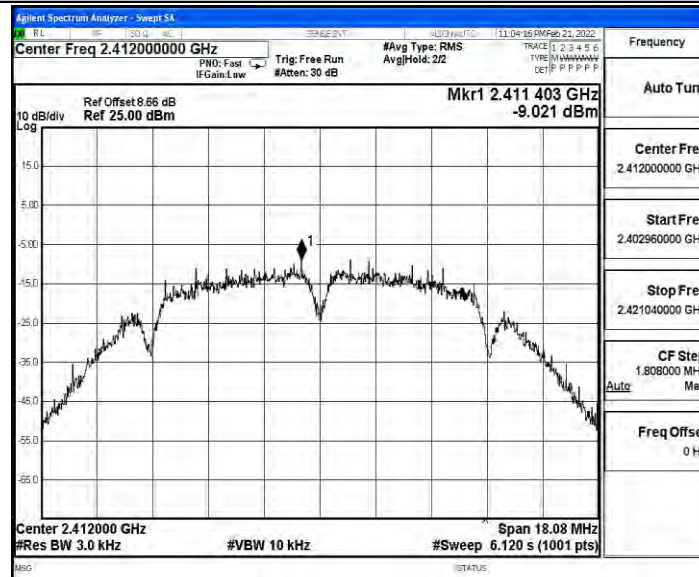
Mode	Channel	MIMO PSD [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11N20SISO	2412	-19.12	-20.02	-16.54	8	PASS
	2437	-19.26	-19.7	-16.46	8	PASS
	2462	-20.21	-19.7	-16.94	8	PASS
11N40SISO	2422	-21.93	-21.87	-18.89	8	PASS
	2437	-22.68	-21.72	-19.16	8	PASS
	2452	-23.2	-21.24	-19.10	8	PASS



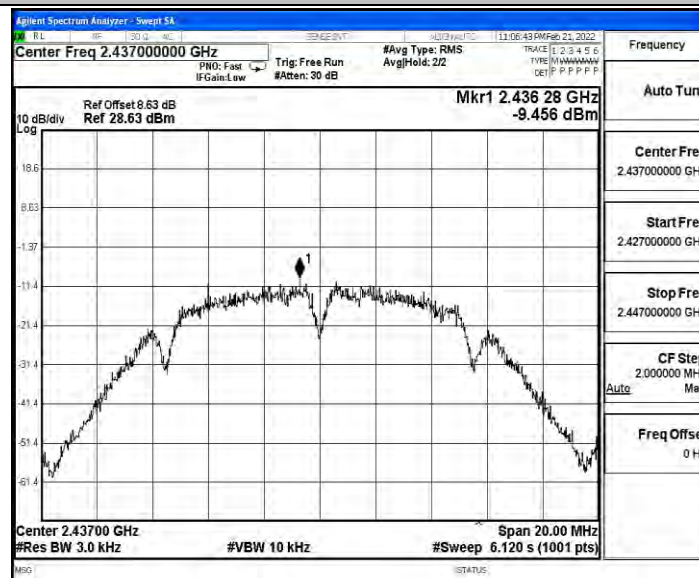
Ant0

Test Graphs

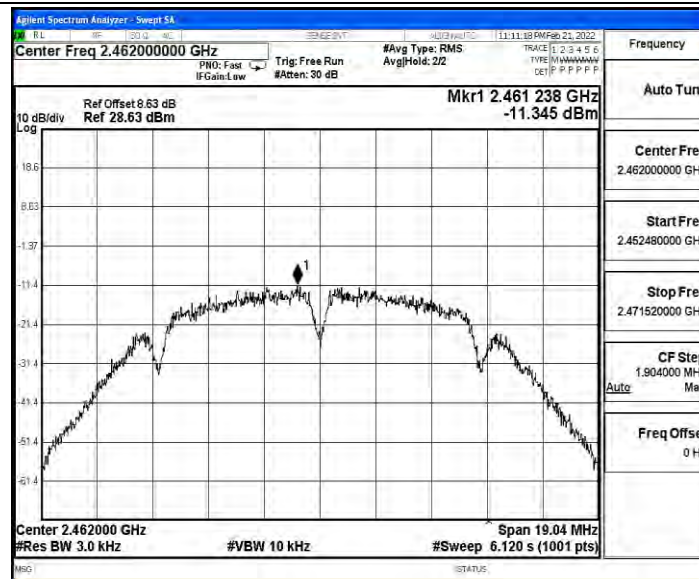
11B_Ant0_2412



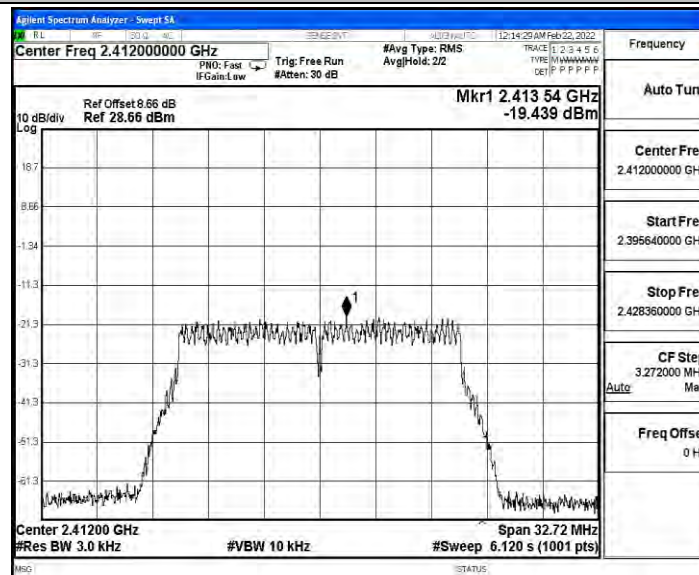
11B_Ant0_2437



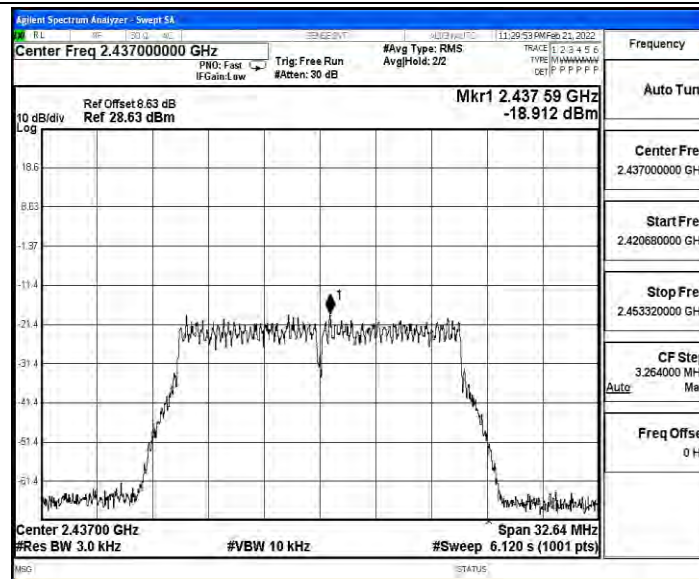
11B_Ant0_2462



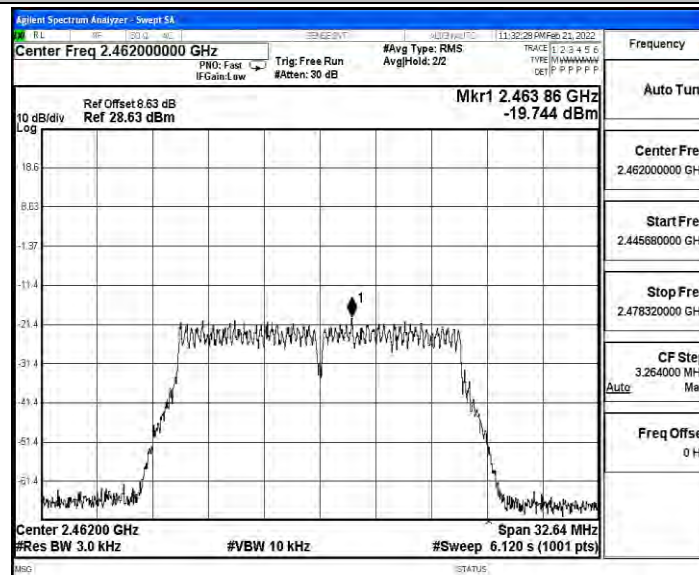
11G_Ant0_2412



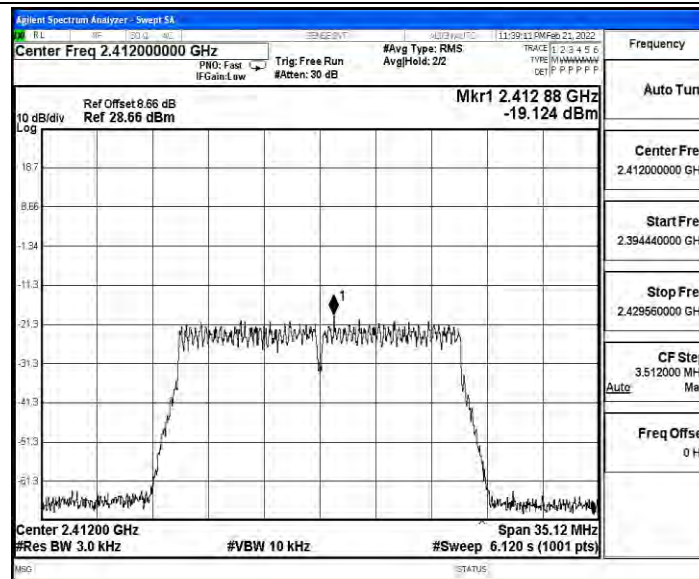
11G_Ant0_2437



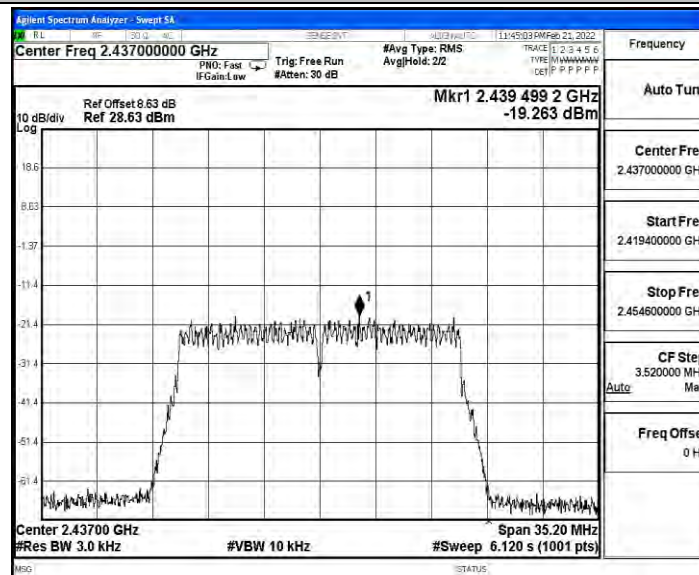
11G_Ant0_2462



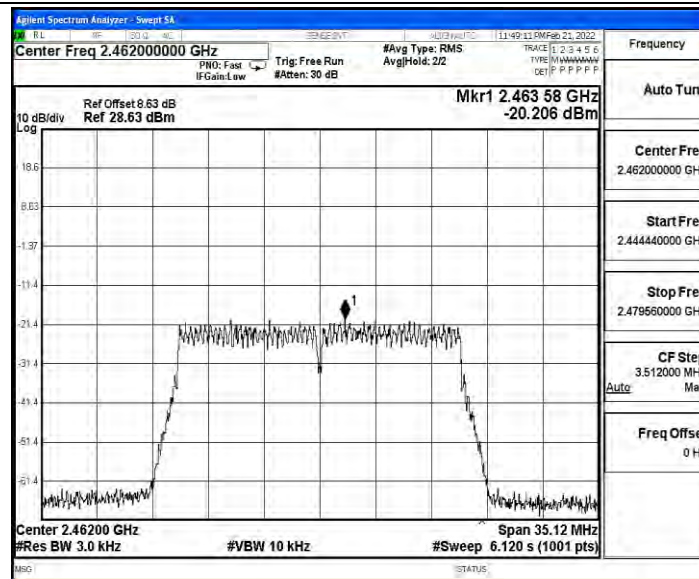
11N20SISO_Ant0_2412



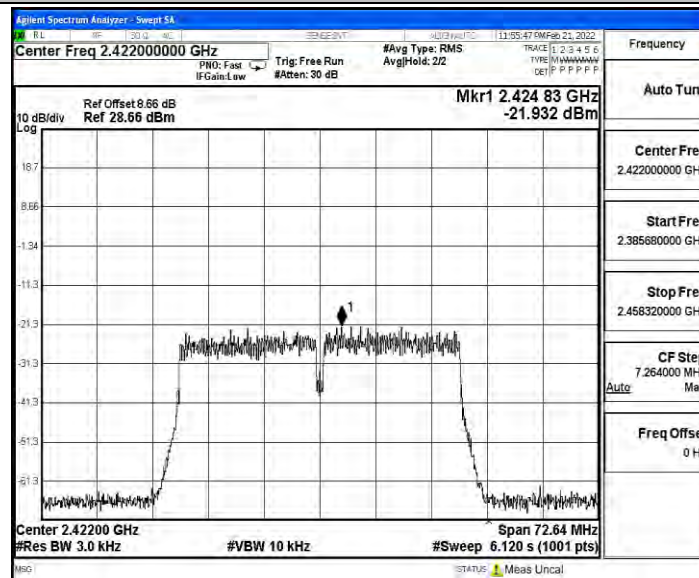
11N20SISO_Ant0_2437



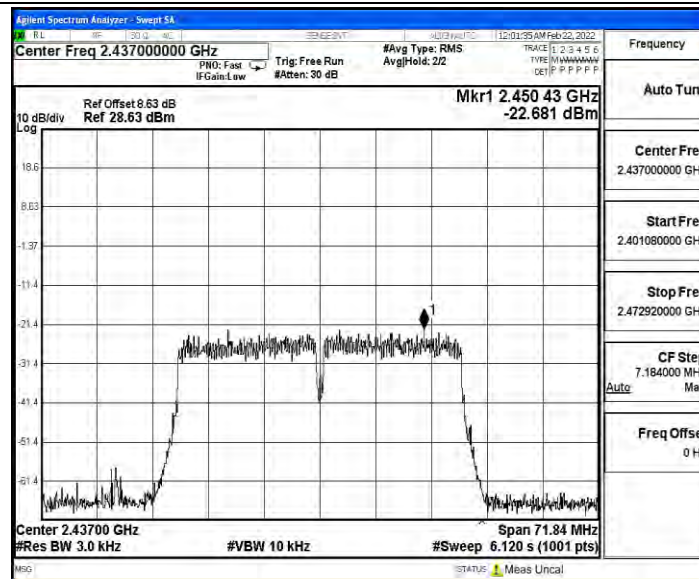
11N20SISO_Ant0_2462



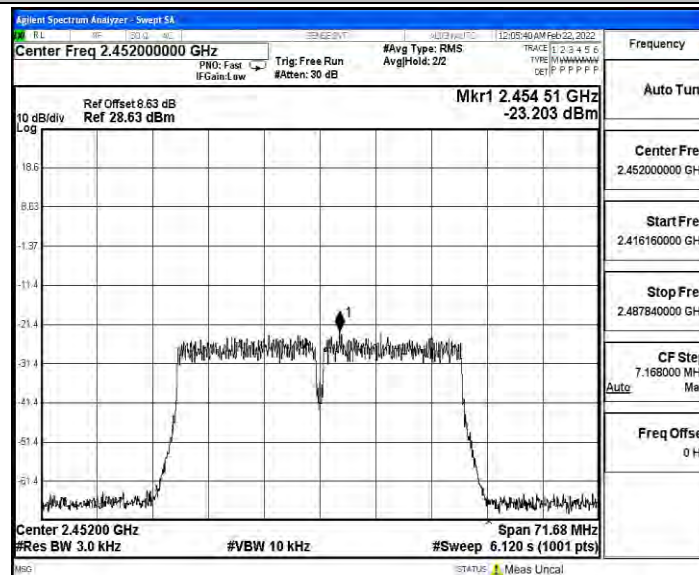
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452

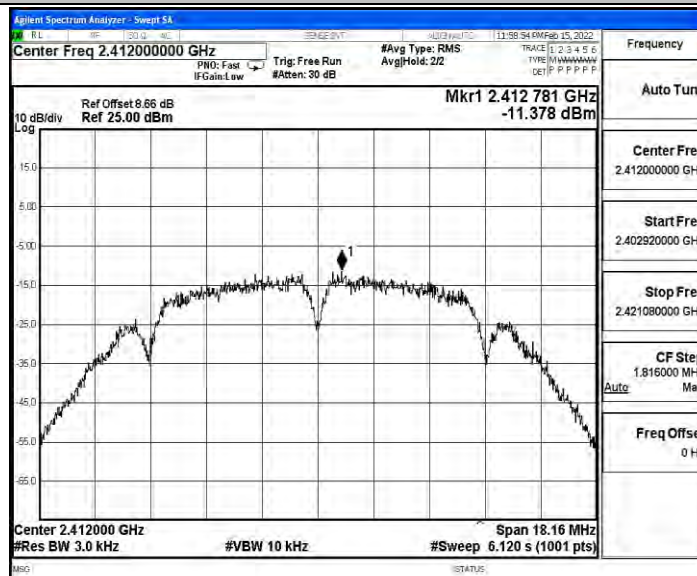




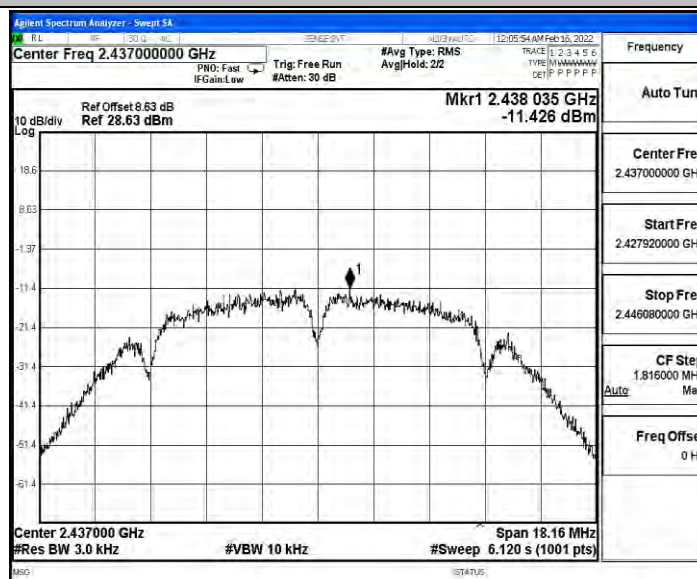
Ant1

Test Graphs

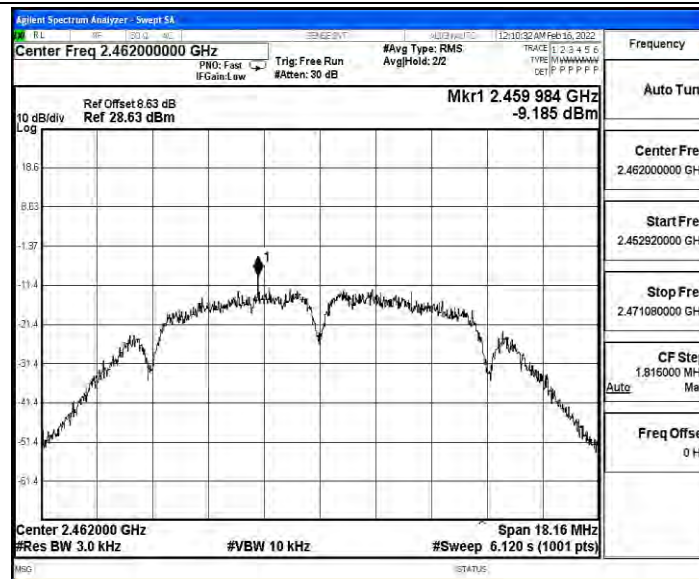
11B_Ant1_2412



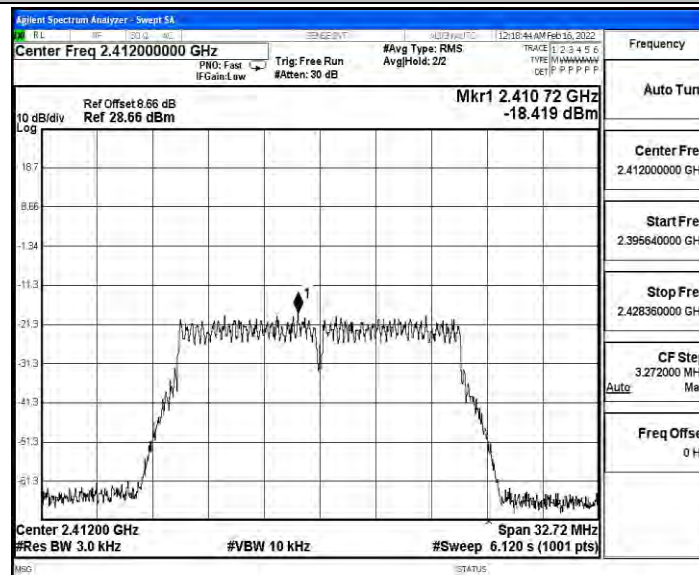
11B_Ant1_2437



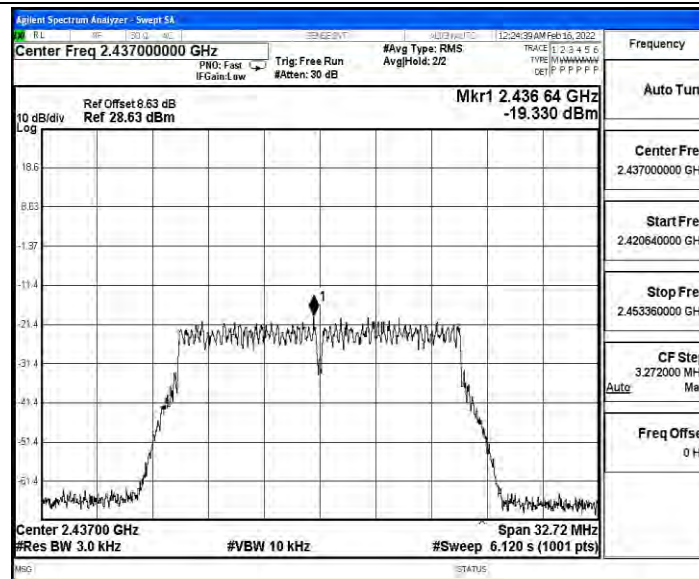
11B_Ant1_2462



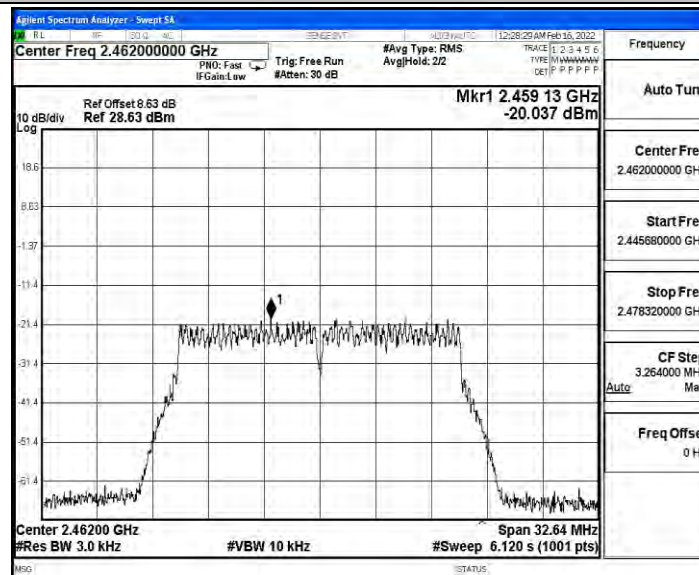
11G_Ant1_2412



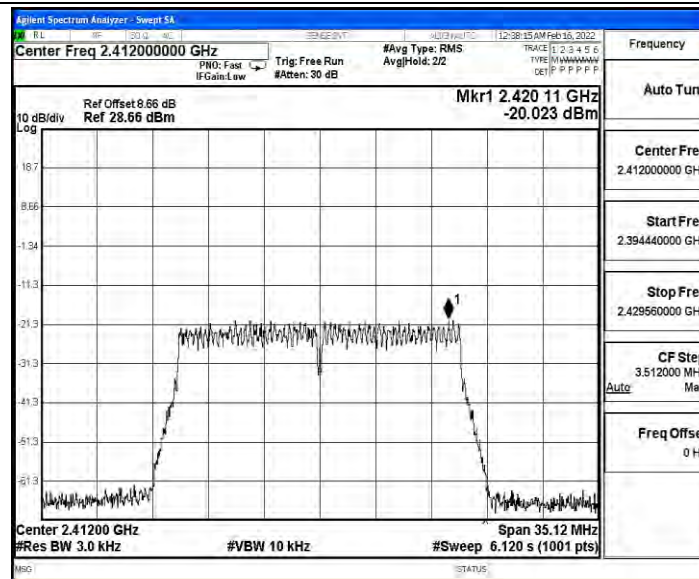
11G_Ant1_2437



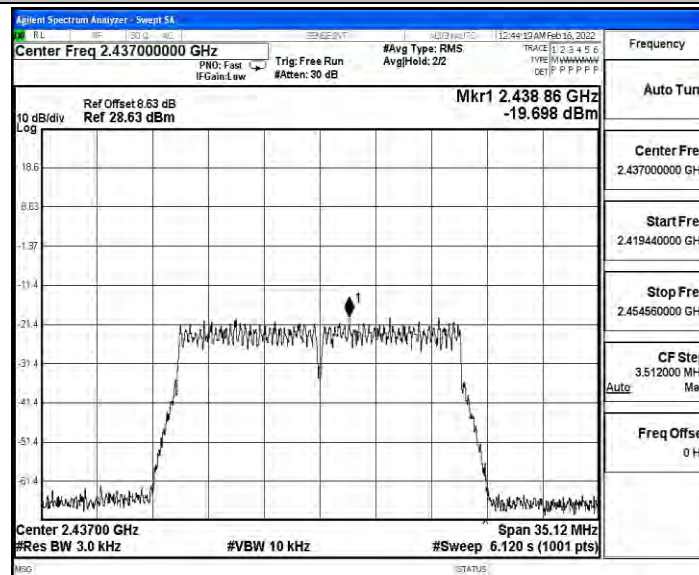
11G_Ant1_2462



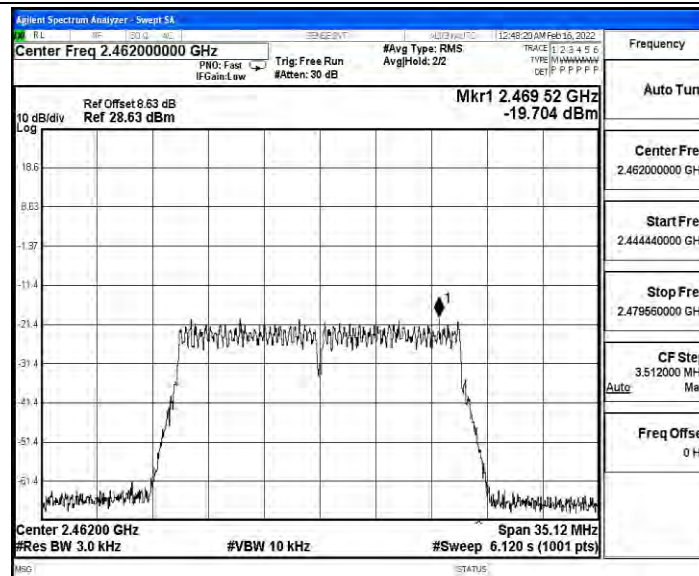
11N20SISO_Ant1_2412



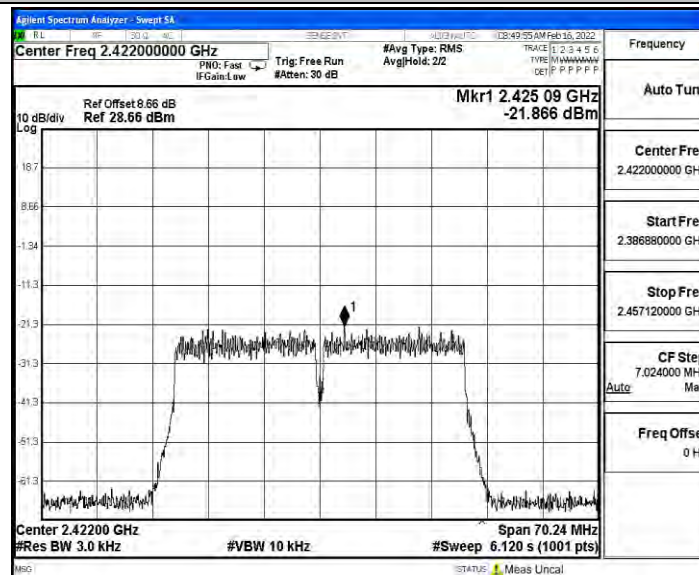
11N20SISO_Ant1_2437



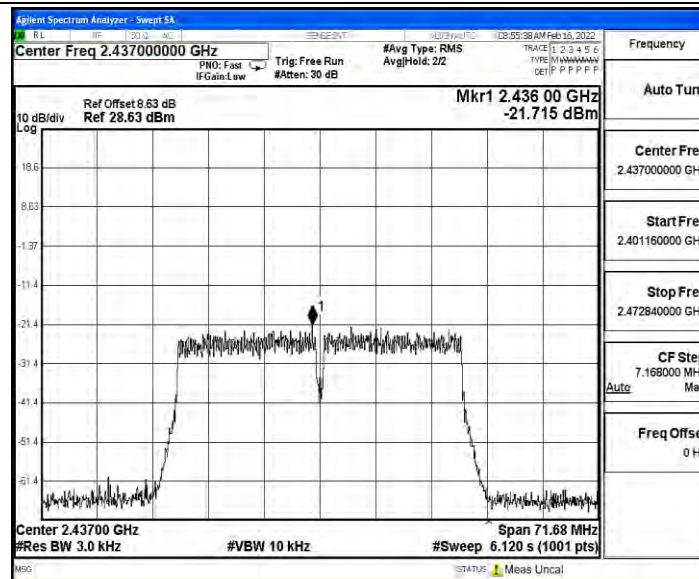
11N20SISO_Ant1_2462



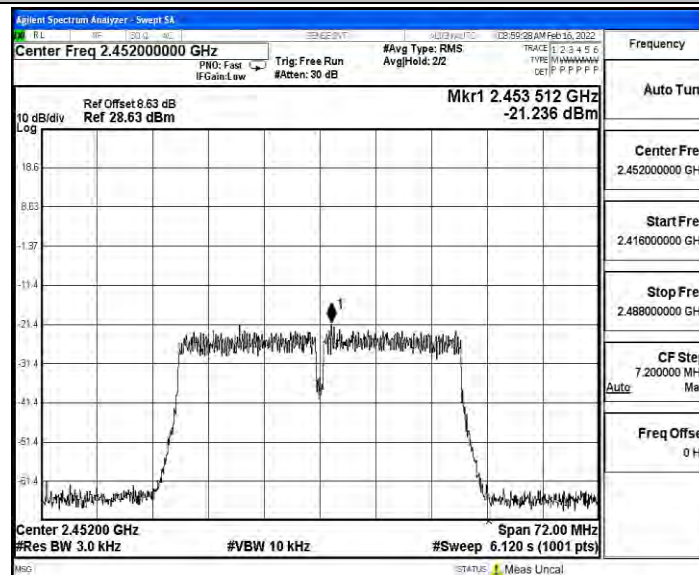
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





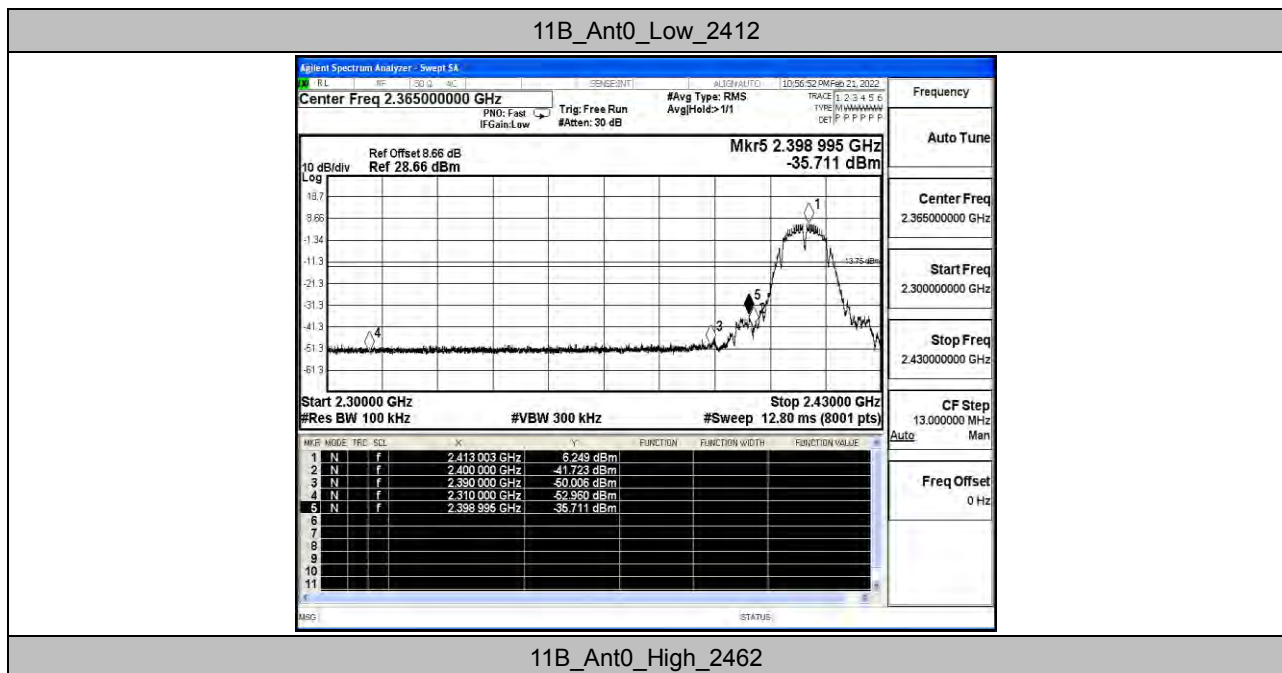
A.5 Band edge measurements

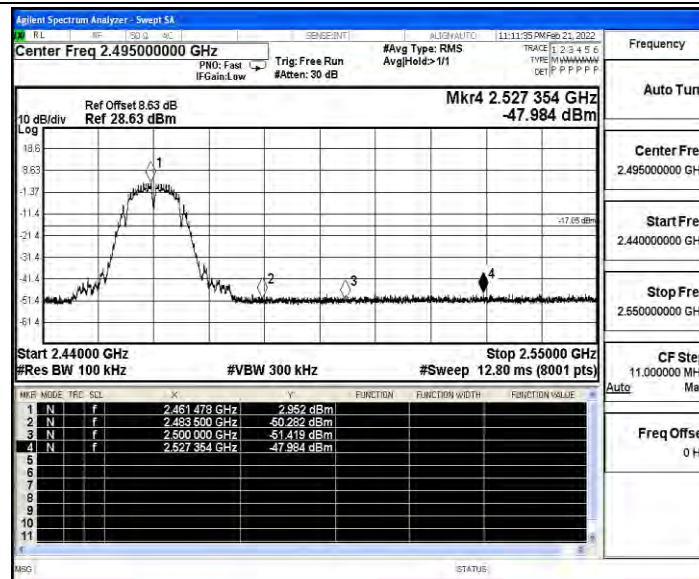
Ant0

Test Result

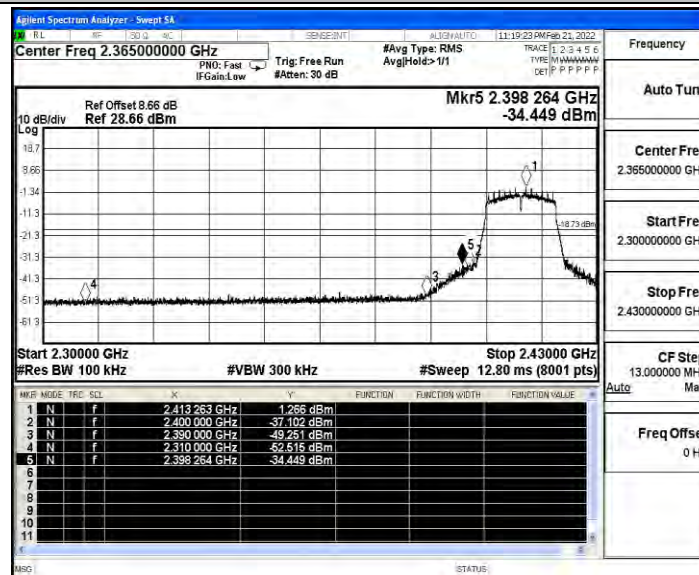
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	6.25	-35.71	≤ -13.75	PASS
		High	2462	2.95	-47.98	≤ -17.05	PASS
11G	Ant0	Low	2412	1.27	-34.45	≤ -18.73	PASS
		High	2462	-5.38	-47.38	≤ -25.38	PASS
11N20SISO	Ant0	Low	2412	-4.93	-46.54	≤ -24.93	PASS
		High	2462	-4.93	-48.38	≤ -24.93	PASS
11N40SISO	Ant0	Low	2422	-7.81	-45.92	≤ -27.81	PASS
		High	2452	-9.02	-46.77	≤ -29.02	PASS

Test Graphs

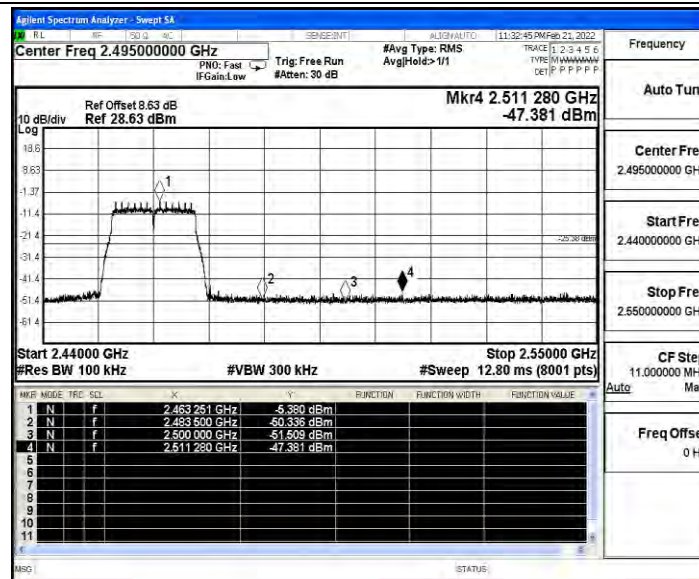




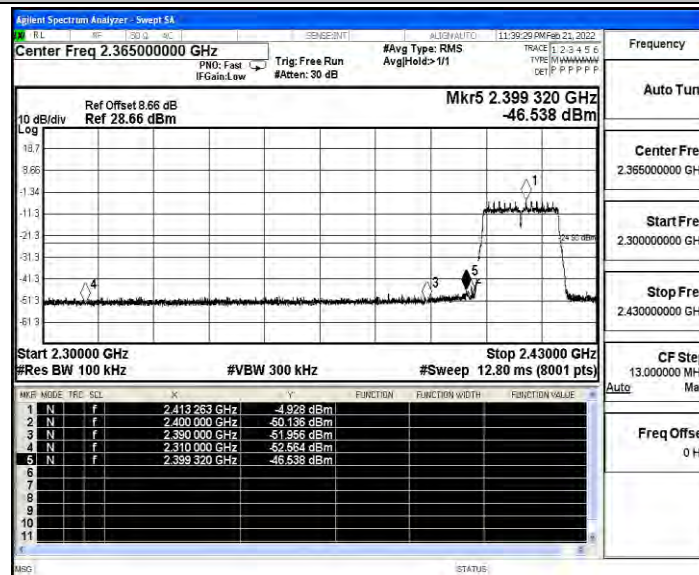
11G_Ant0_Low_2412



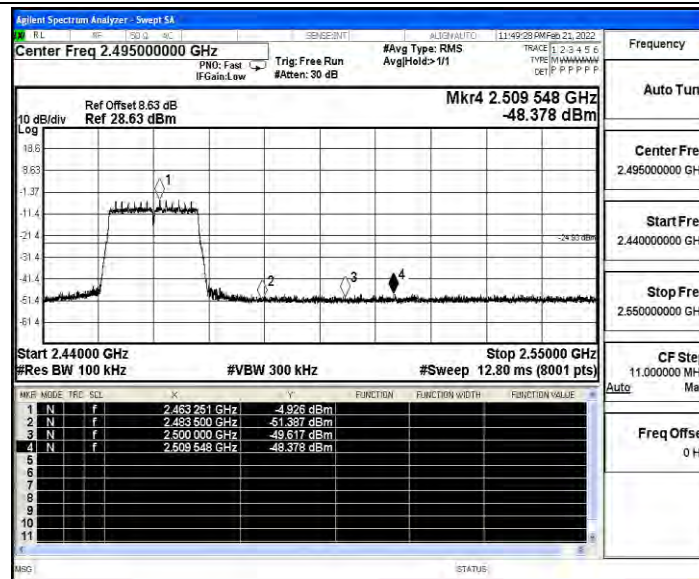
11G_Ant0_High_2462



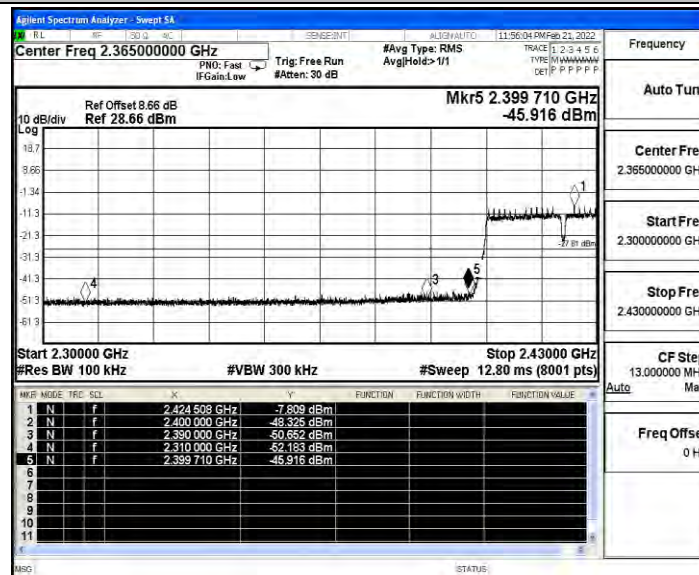
11N20SISO_Ant0_Low_2412



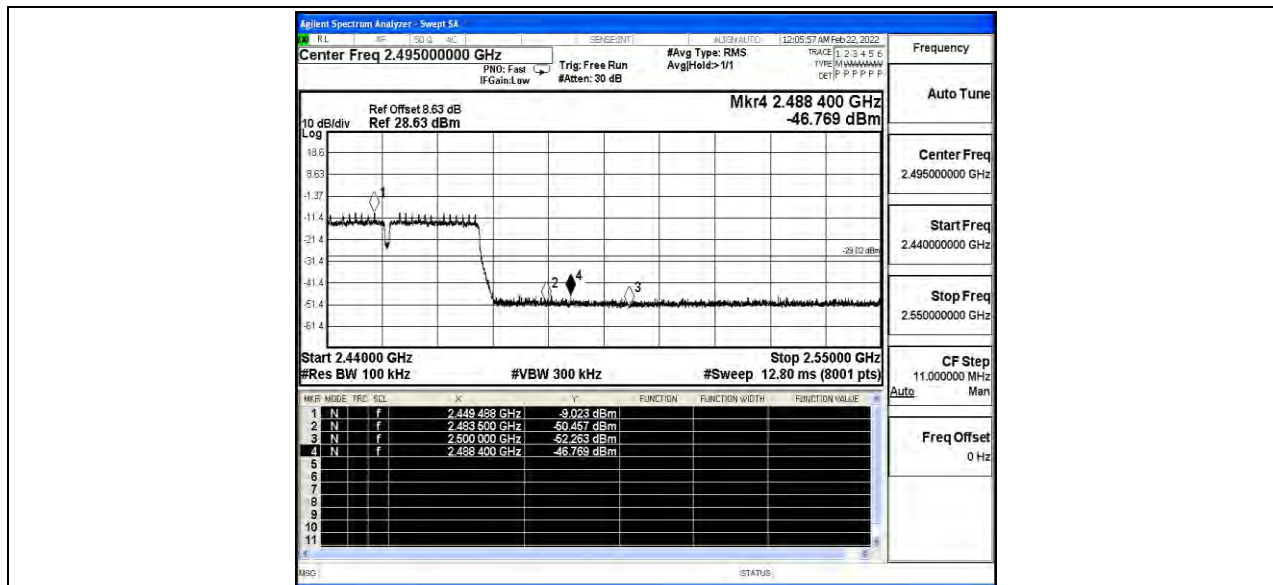
11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422



11N40SISO_Ant0_High_2452

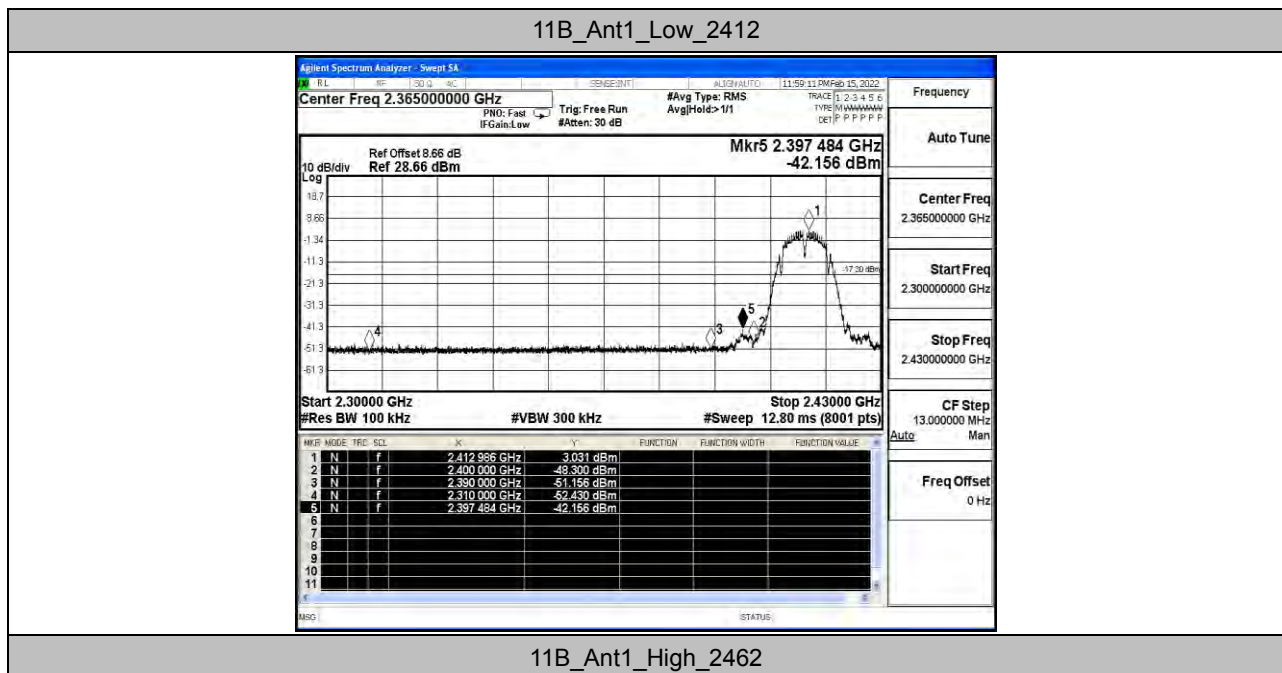


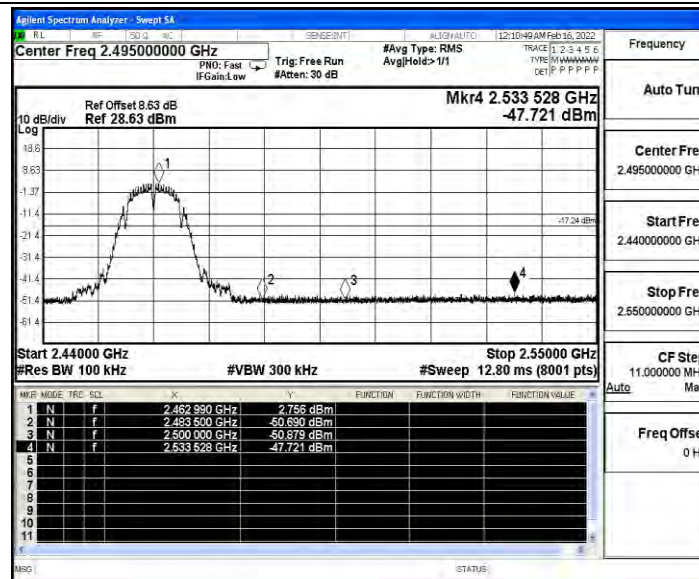


Ant1

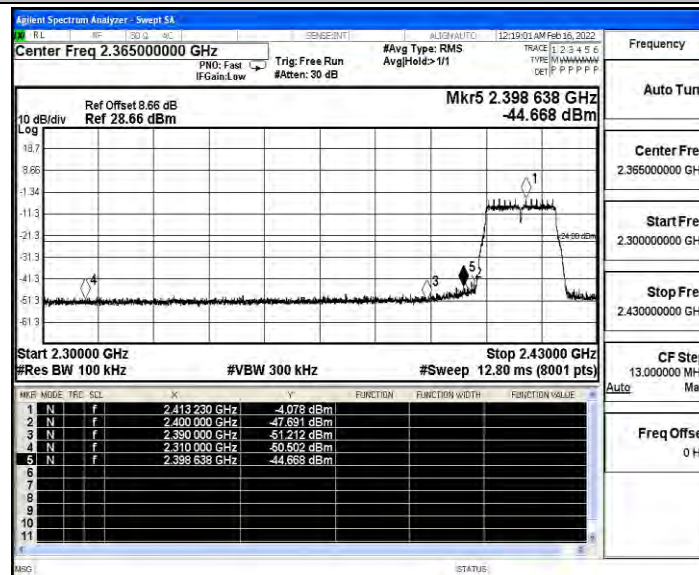
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.70	-42.16	≤-17.3	PASS
		High	2462	2.76	-47.72	≤-17.24	PASS
11G	Ant1	Low	2412	-4.08	-44.67	≤-24.08	PASS
		High	2462	-5.45	-48.12	≤-25.45	PASS
11N20SISO	Ant1	Low	2412	-5.02	-46.53	≤-25.02	PASS
		High	2462	-5.61	-47.6	≤-25.61	PASS
11N40SISO	Ant1	Low	2422	-8.08	-46.46	≤-28.08	PASS
		High	2452	-7.42	-44.36	≤-27.42	PASS

Test Graphs

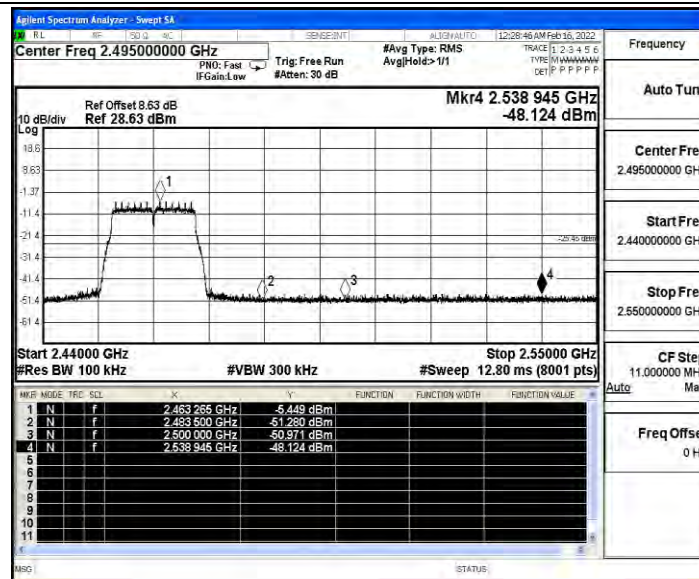




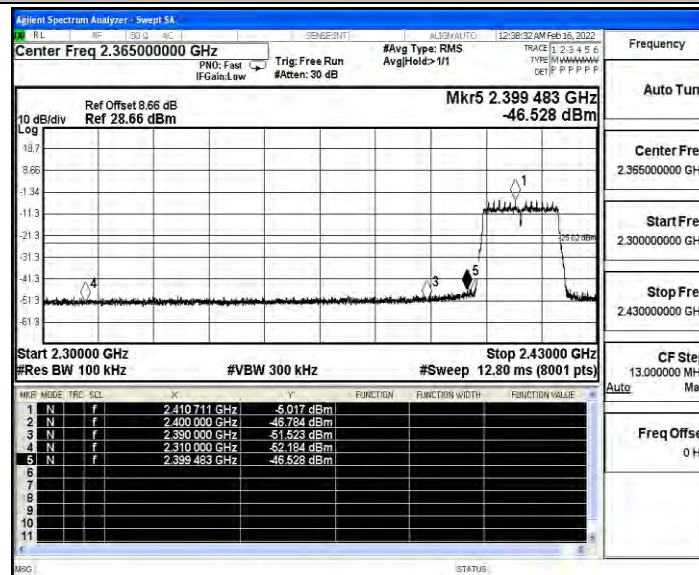
11G_Ant1_Low_2412



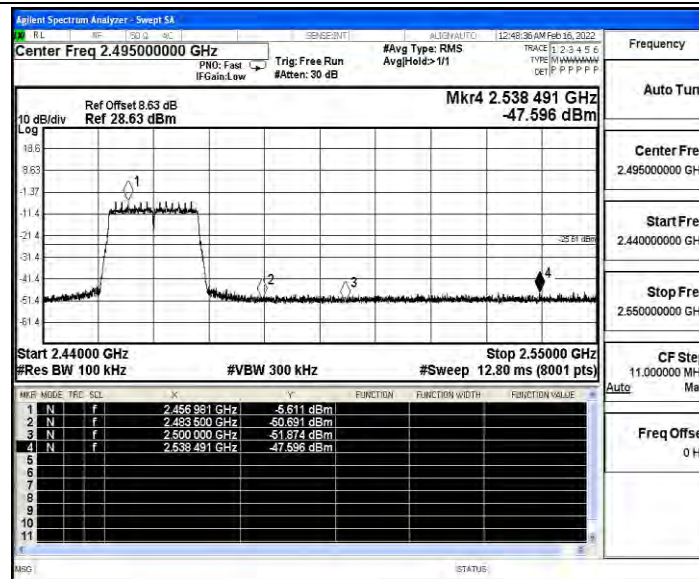
11G_Ant1_High_2462



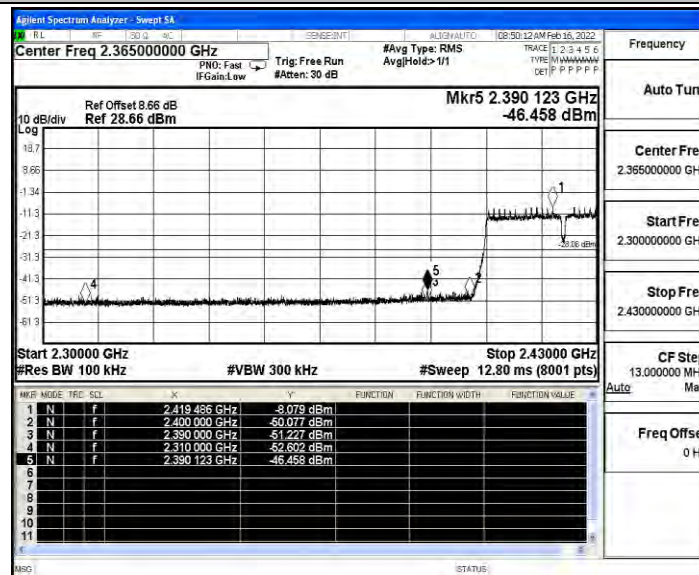
11N20SISO_Ant1_Low_2412



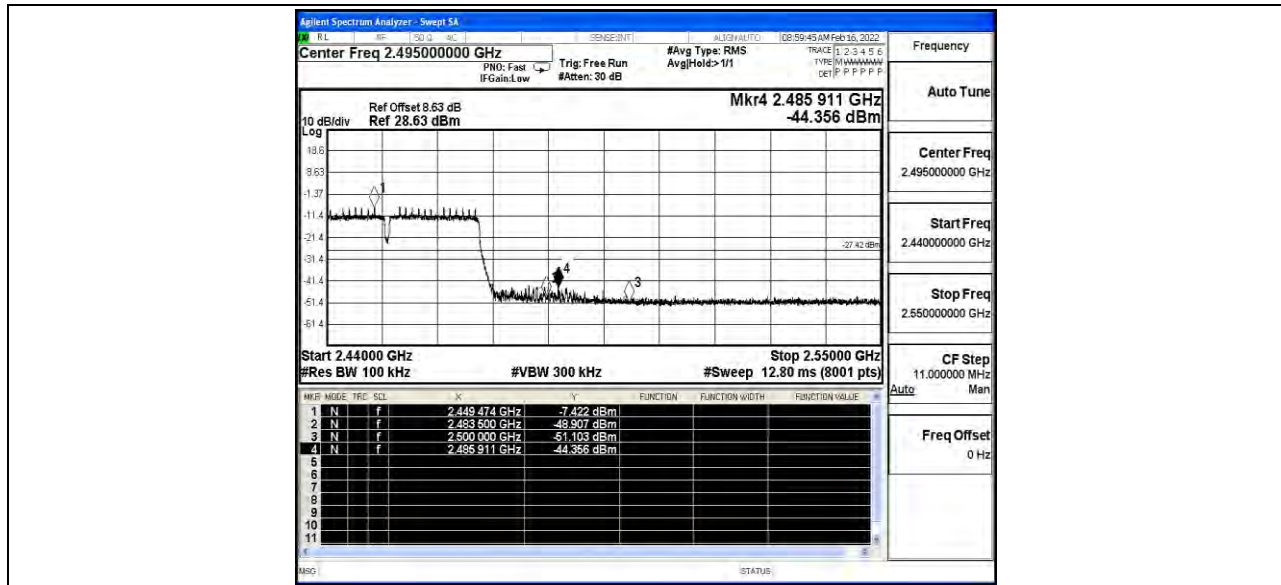
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





A.6 Conducted Spurious Emission

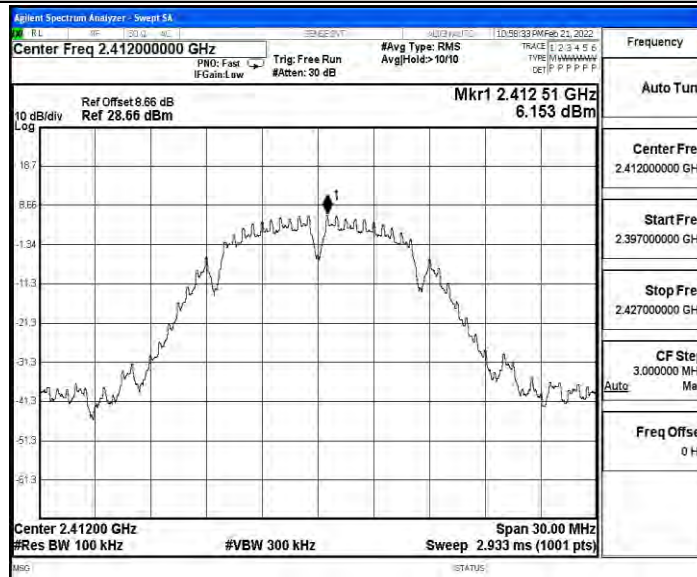
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	6.15	6.15	---	PASS
			30~1000	6.15	-61.07	≤ -13.85	PASS
			1000~26500	6.15	-45.51	≤ -13.85	PASS
		2437	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-60.42	≤ -15.79	PASS
			1000~26500	4.21	-45.79	≤ -15.79	PASS
		2462	Reference	3.27	3.27	---	PASS
			30~1000	3.27	-60.42	≤ -16.73	PASS
			1000~26500	3.27	-46.24	≤ -16.73	PASS
11G	Ant0	2412	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-60.98	≤ -18.76	PASS
			1000~26500	1.24	-46.18	≤ -18.76	PASS
		2437	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-60.54	≤ -17.94	PASS
			1000~26500	2.06	-46.31	≤ -17.94	PASS
		2462	Reference	-5.67	-5.67	---	PASS
			30~1000	-5.67	-60.81	≤ -25.67	PASS
			1000~26500	-5.67	-46.18	≤ -25.67	PASS
11N20SISO	Ant0	2412	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-60.6	≤ -25	PASS
			1000~26500	-5.00	-45.99	≤ -25	PASS
		2437	Reference	-4.52	-4.52	---	PASS
			30~1000	-4.52	-60.63	≤ -24.52	PASS
			1000~26500	-4.52	-45.41	≤ -24.52	PASS
		2462	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-60.56	≤ -25.02	PASS
			1000~26500	-5.02	-46.31	≤ -25.02	PASS
11N40SISO	Ant0	2422	Reference	-7.95	-7.95	---	PASS
			30~1000	-7.95	-60.96	≤ -27.95	PASS
			1000~26500	-7.95	-45.85	≤ -27.95	PASS
		2437	Reference	-8.09	-8.09	---	PASS
			30~1000	-8.09	-61.19	≤ -28.09	PASS
			1000~26500	-8.09	-46.19	≤ -28.09	PASS
		2452	Reference	-8.77	-8.77	---	PASS
			30~1000	-8.77	-61	≤ -28.77	PASS
			1000~26500	-8.77	-45.7	≤ -28.77	PASS

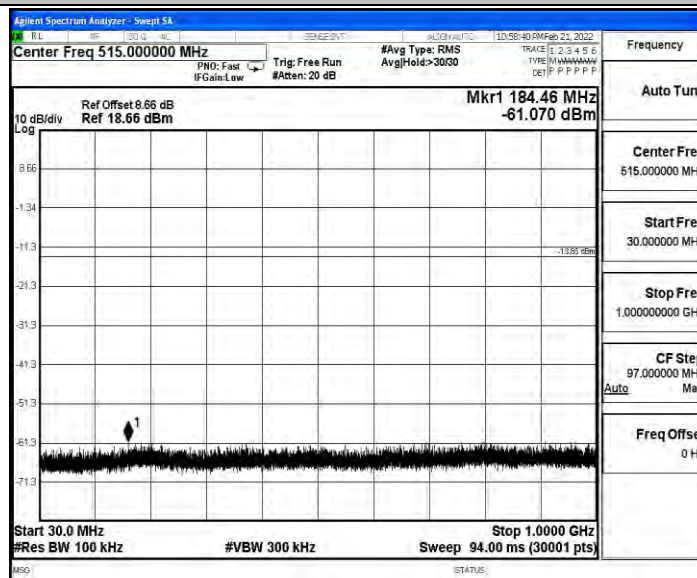


Test Graphs

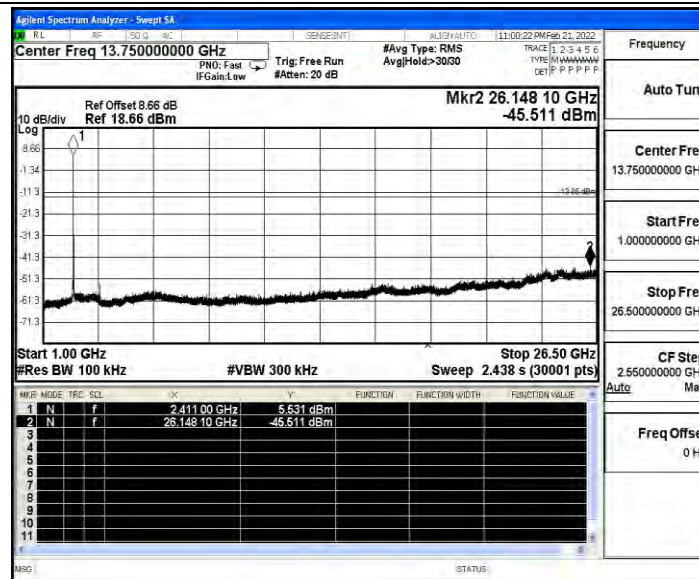
11B_Ant0_2412_0~Reference



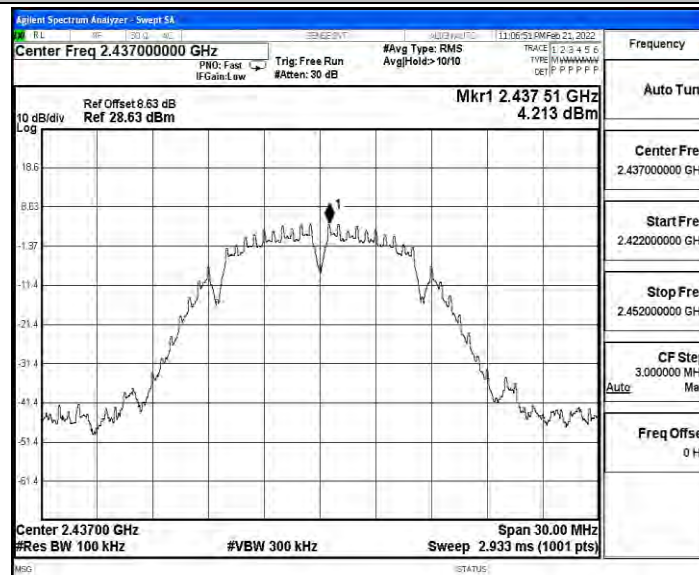
11B_Ant0_2412_30~1000



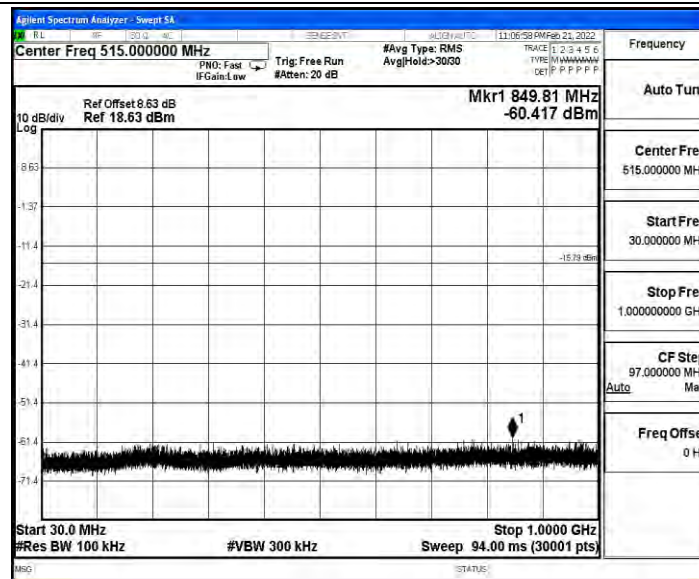
11B_Ant0_2412_1000~26500



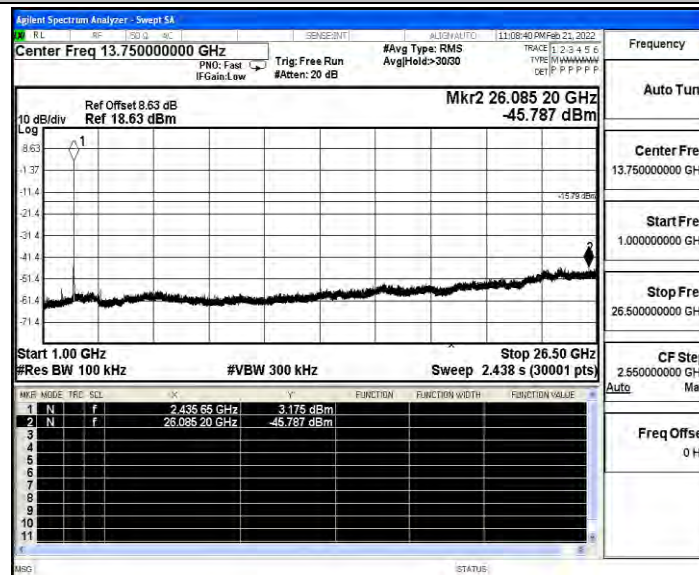
11B_Ant0_2437_0~Reference



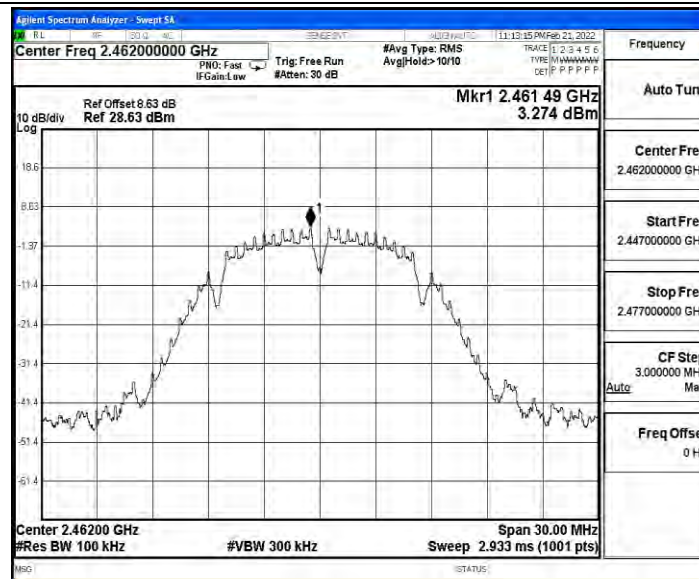
11B_Ant0_2437_30~1000



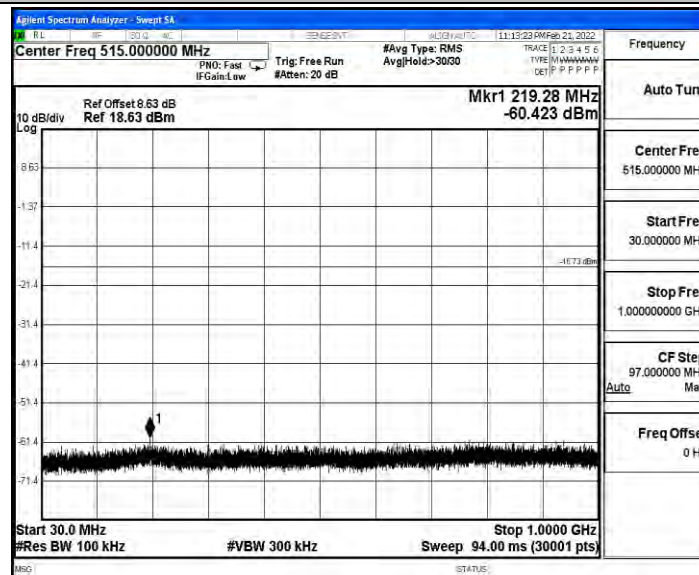
11B_Ant0_2437_1000~26500



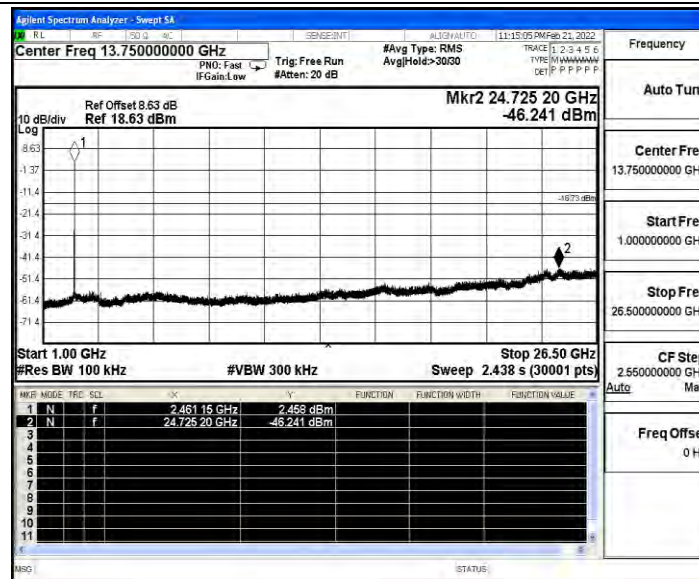
11B_Ant0_2462_0~Reference



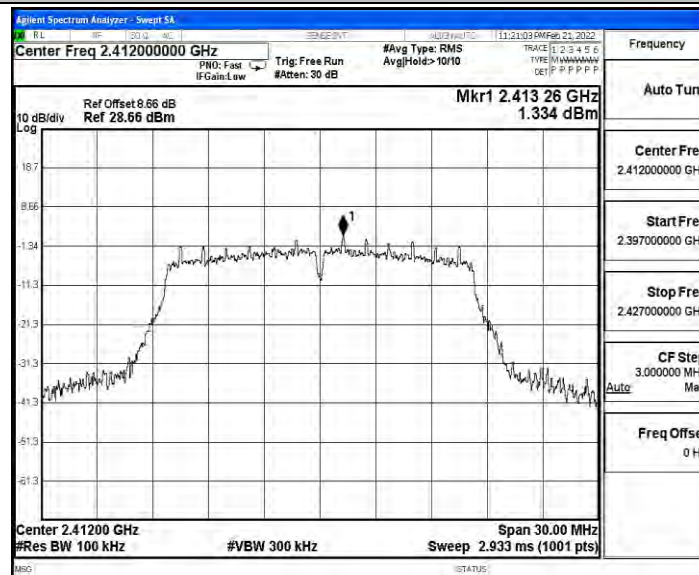
11B_Ant0_2462_30~1000



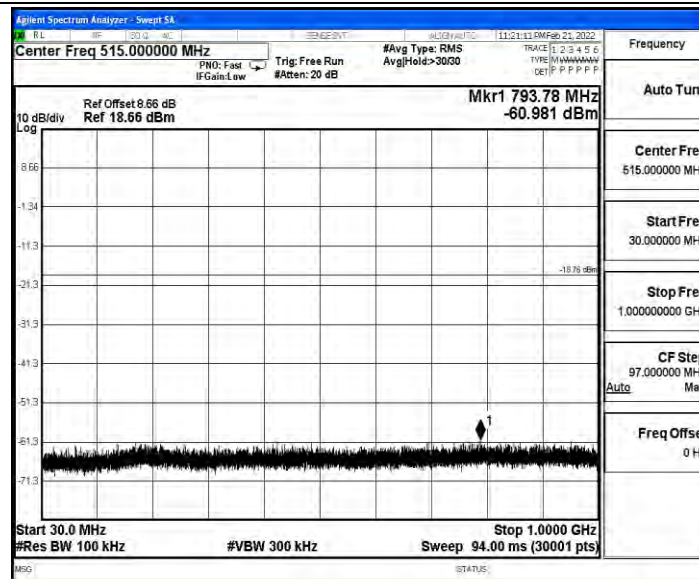
11B_Ant0_2462_1000~26500



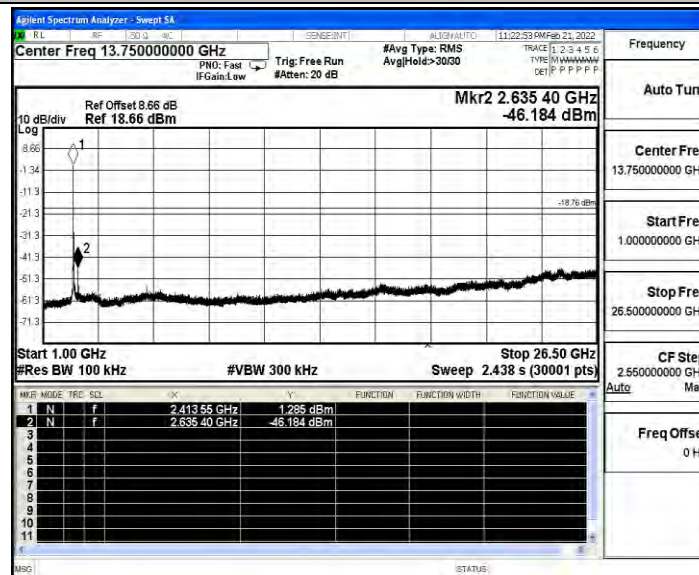
11G_Ant0_2412_0~Reference



11G_Ant0_2412_30~1000



11G_Ant0_2412_1000~26500



11G_Ant0_2437_0~Reference