



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: TABLET PC

Trade Mark: Simbans

Test Model: Picasso Tab _ XL

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



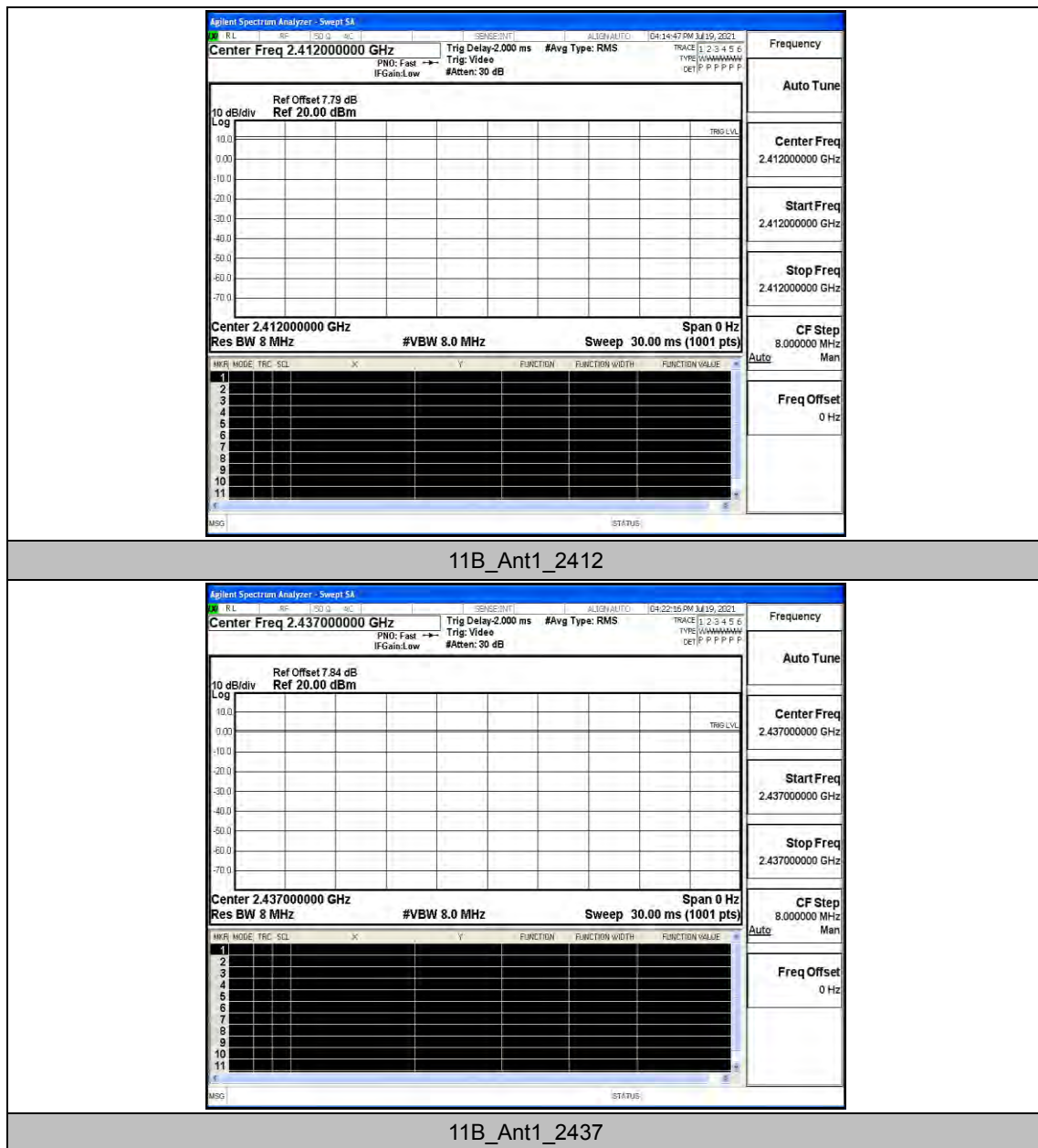
Appendix C.1: Duty Cycle

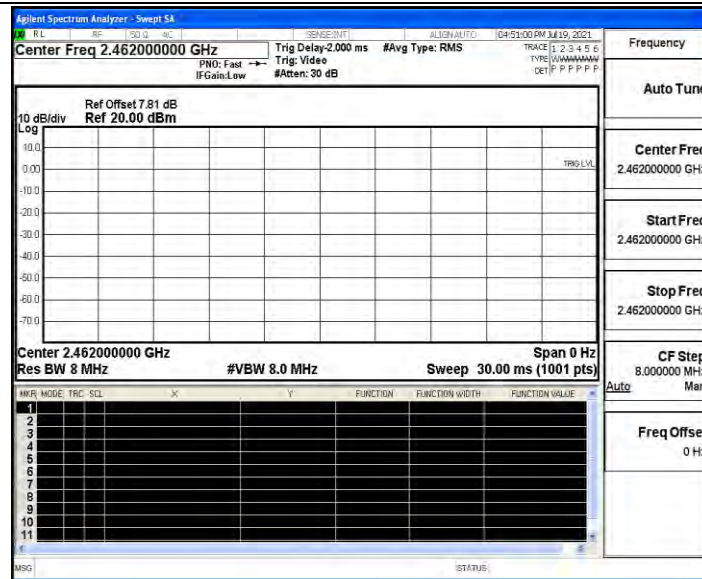
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11G	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11N20SISO	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11N40SISO	Ant1	2422	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2452	30.00	30.00	100.00	---	PASS

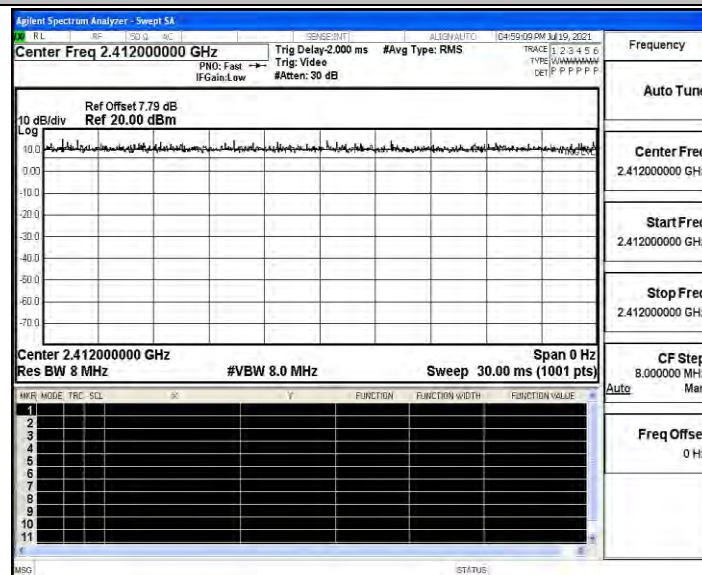


Test Graphs

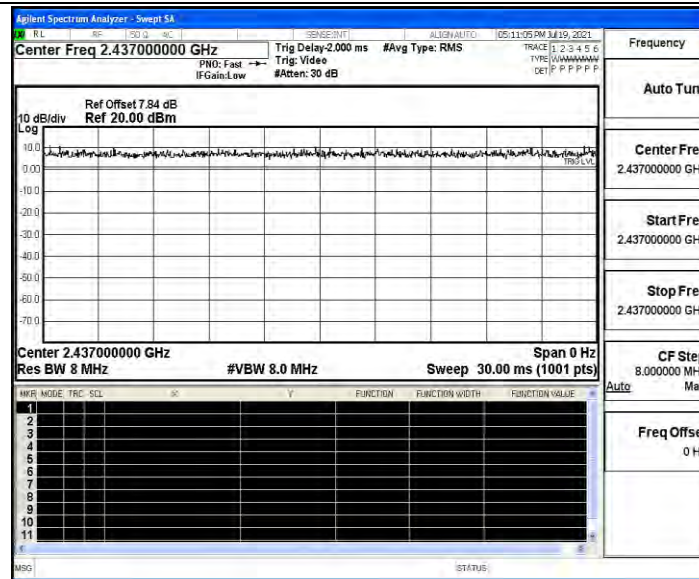




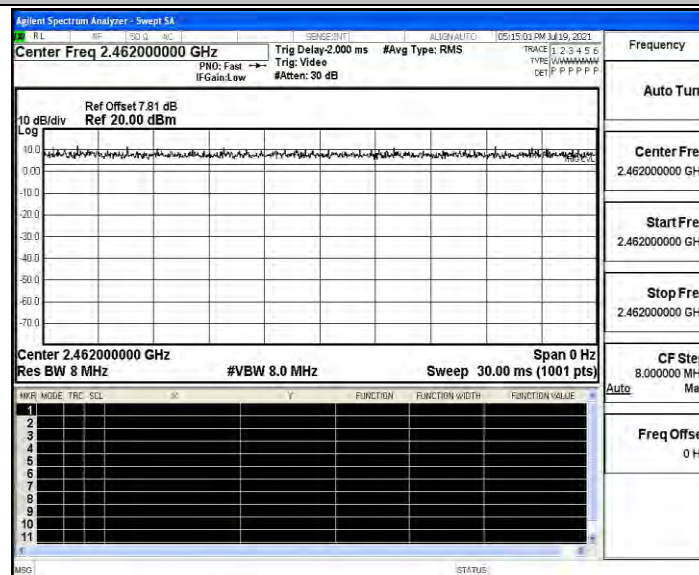
11B_Ant1_2462



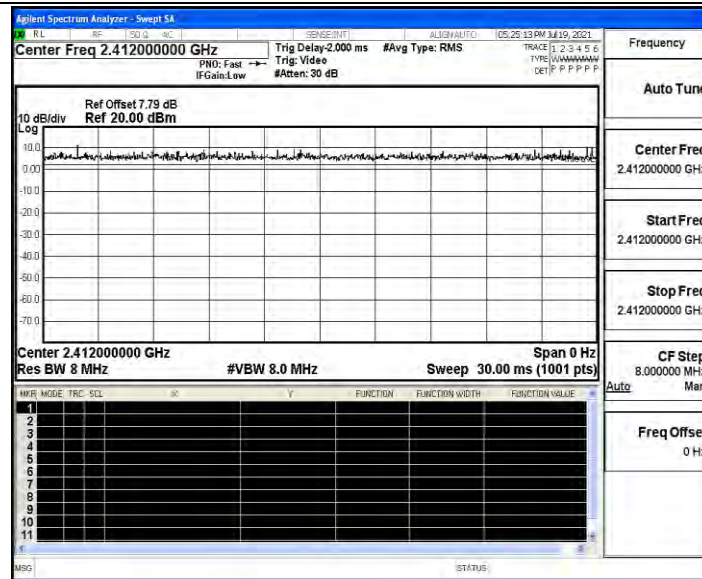
11G_Ant1_2412



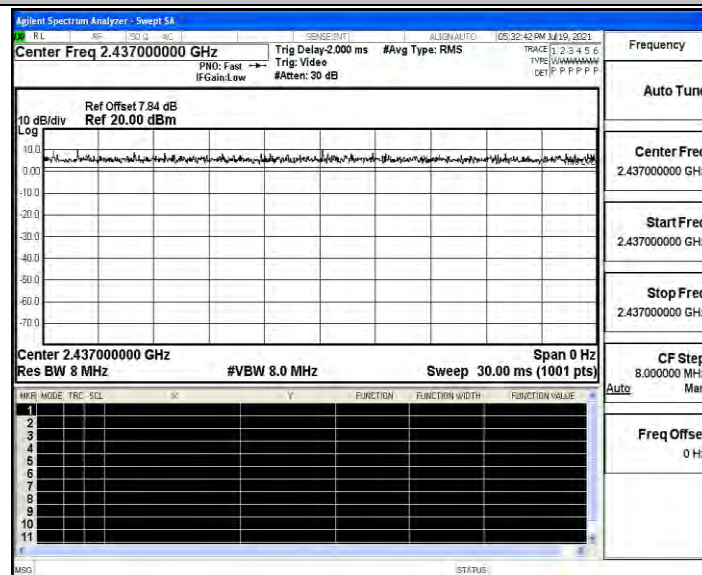
11G_Ant1_2437



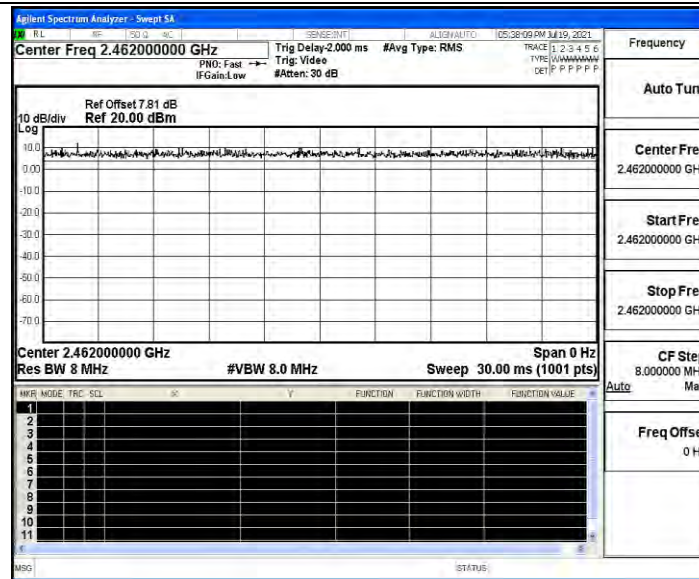
11G_Ant1_2462



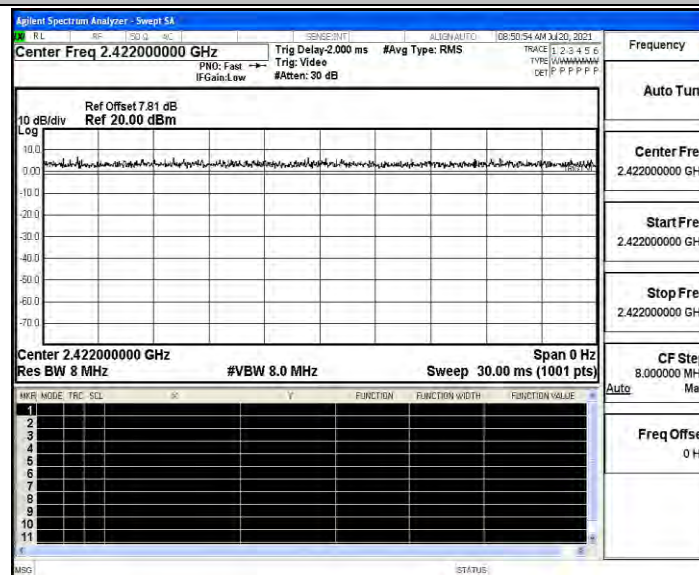
11N20SISO_Ant1_2412



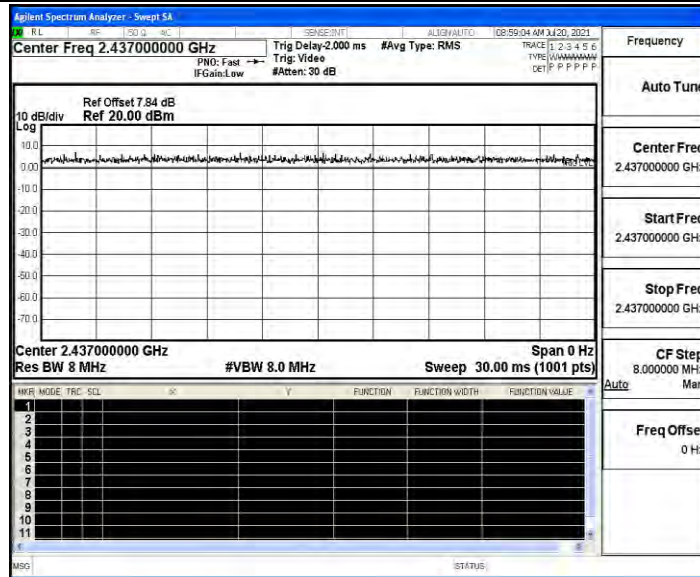
11N20SISO_Ant1_2437



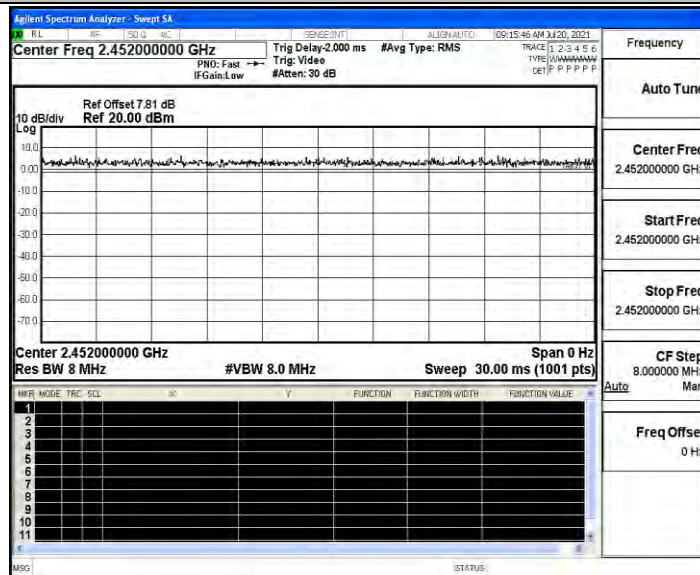
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



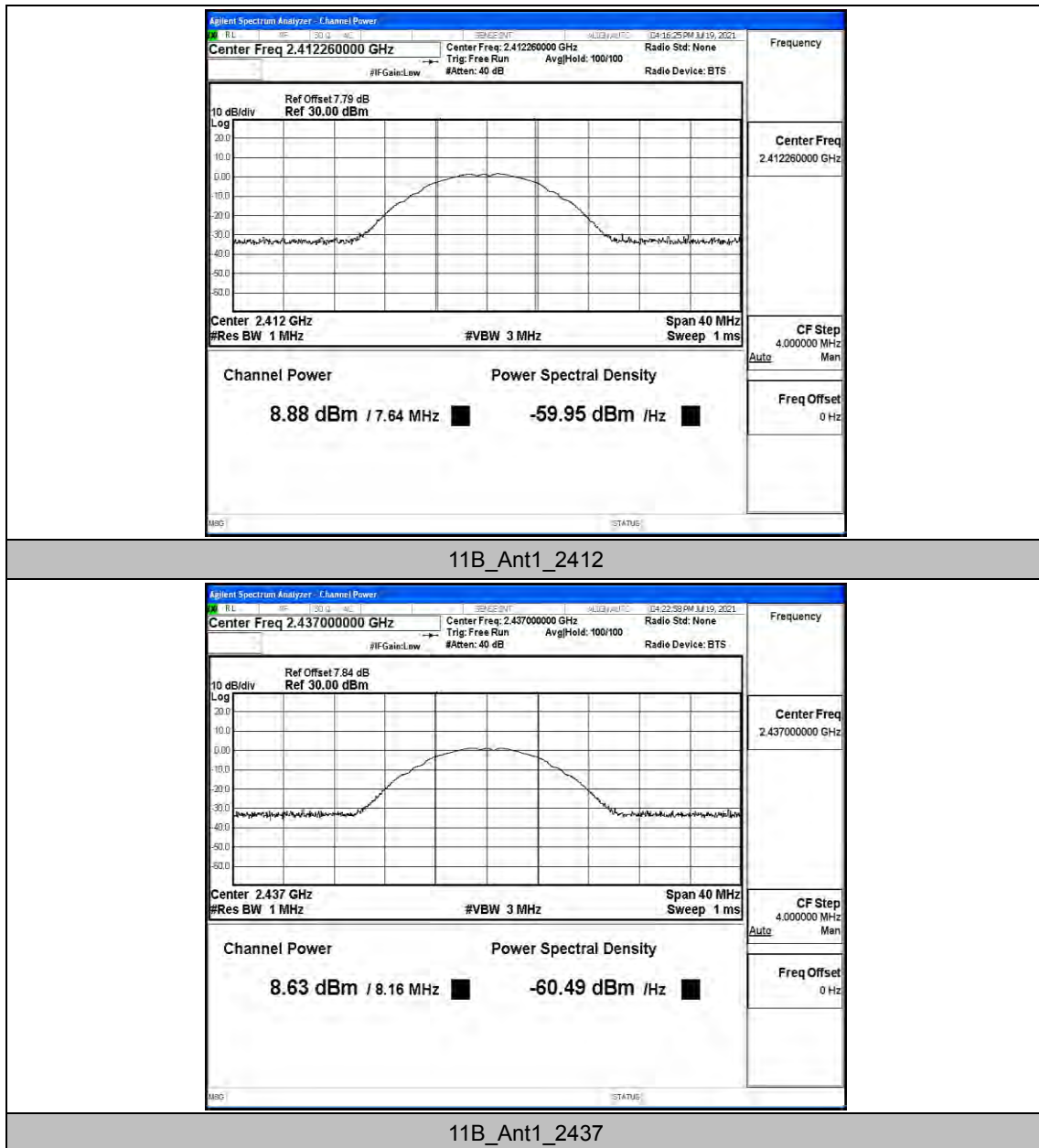
Appendix C.2: Maximum conducted output power

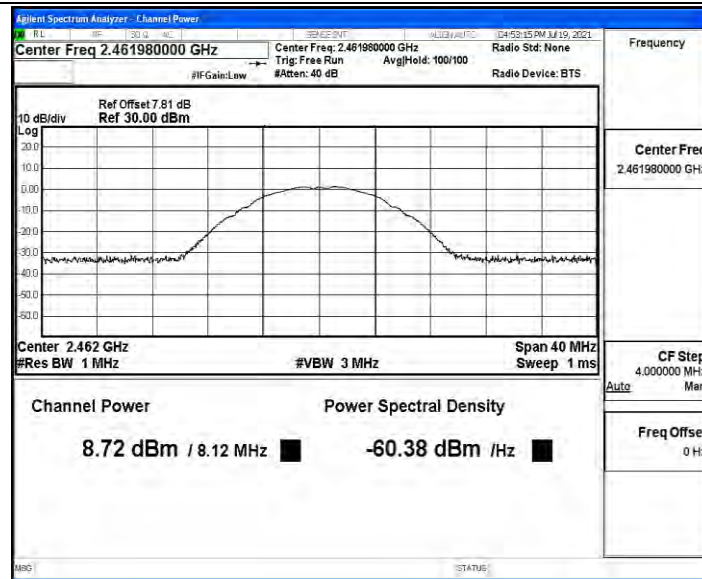
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	8.88	≤30	PASS
		2437	8.63	≤30	PASS
		2462	8.72	≤30	PASS
11G	Ant1	2412	8.75	≤30	PASS
		2437	8.81	≤30	PASS
		2462	7.95	≤30	PASS
11N20SISO	Ant1	2412	7.63	≤30	PASS
		2437	7.61	≤30	PASS
		2462	7.84	≤30	PASS
11N40SISO	Ant1	2422	8.07	≤30	PASS
		2437	8.68	≤30	PASS
		2452	7.94	≤30	PASS

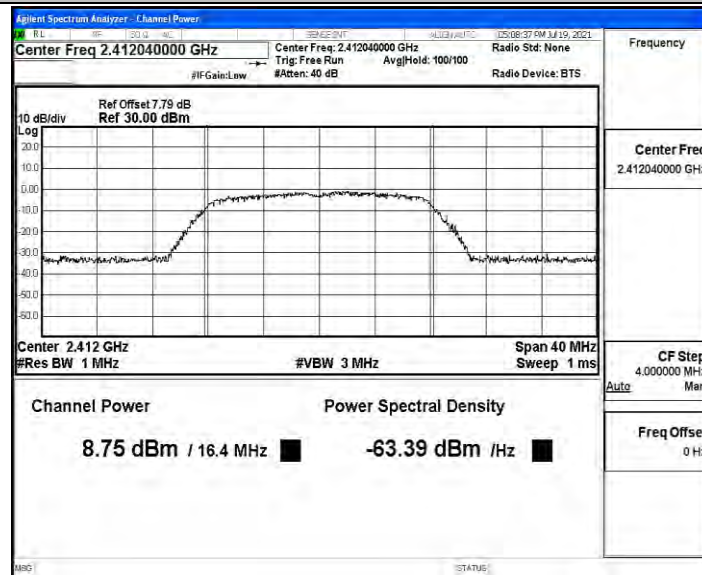


Test Graphs

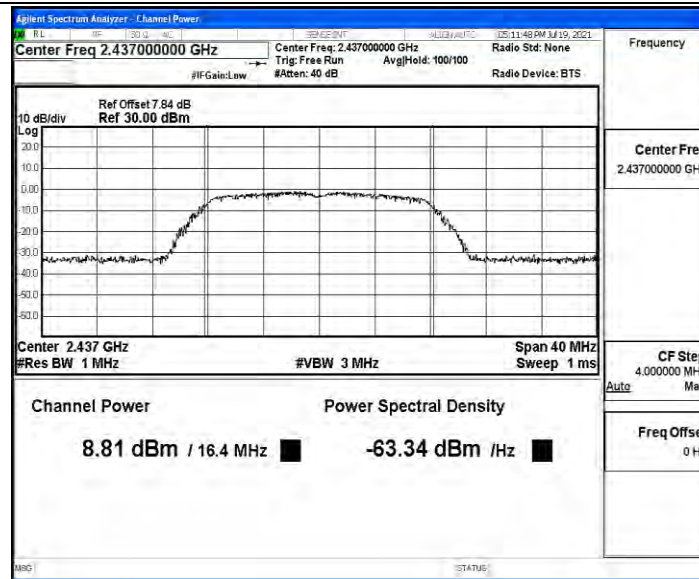




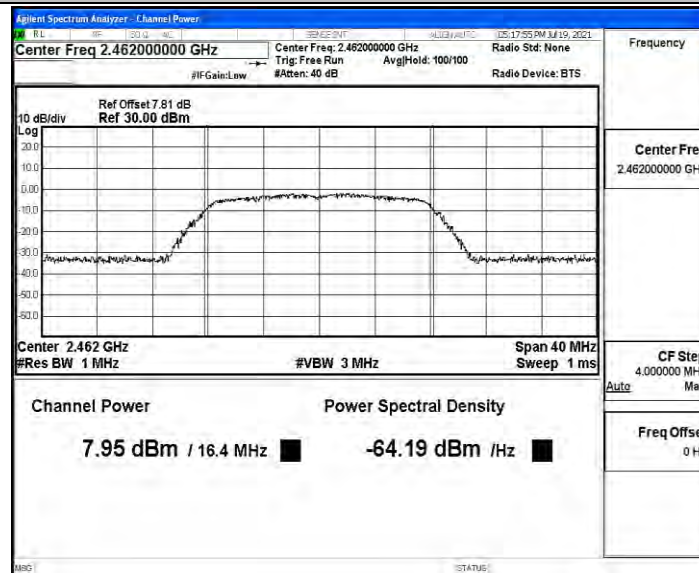
11B_Ant1_2462



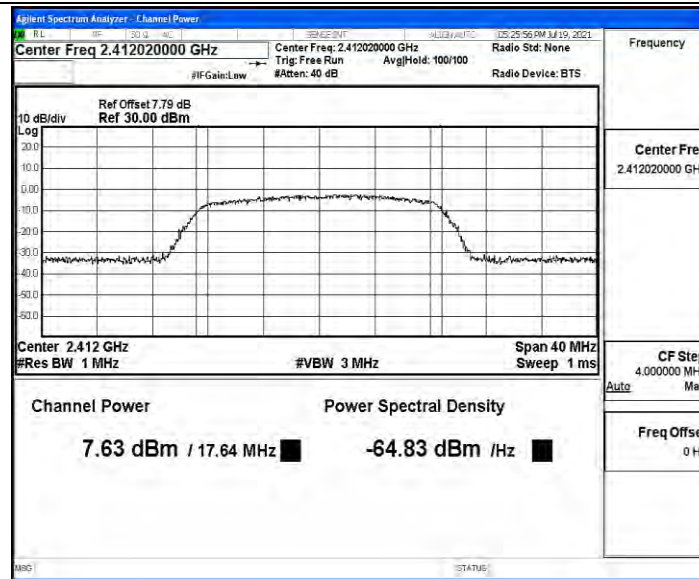
11G_Ant1_2412



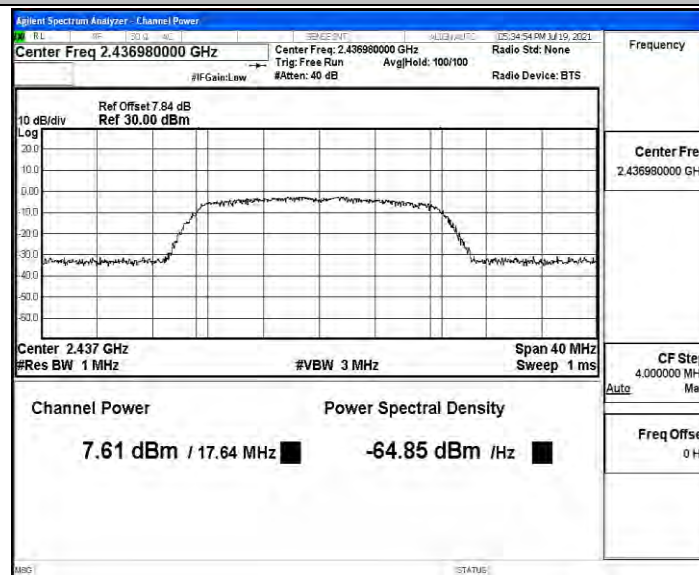
11G_Ant1_2437



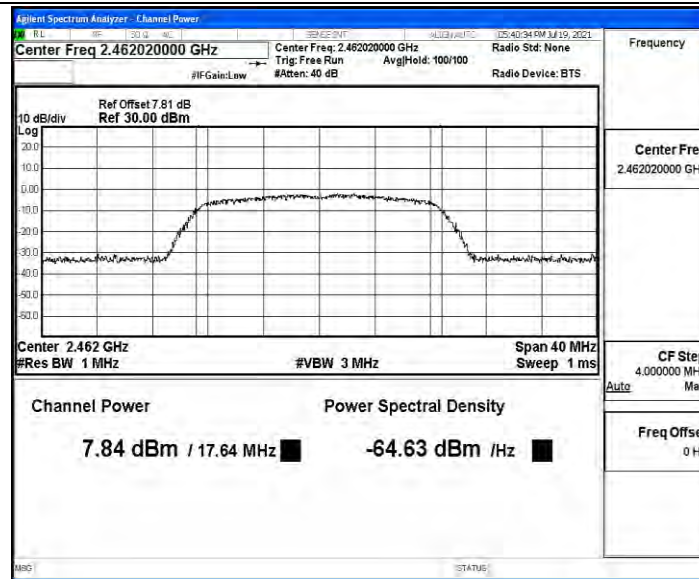
11G_Ant1_2462



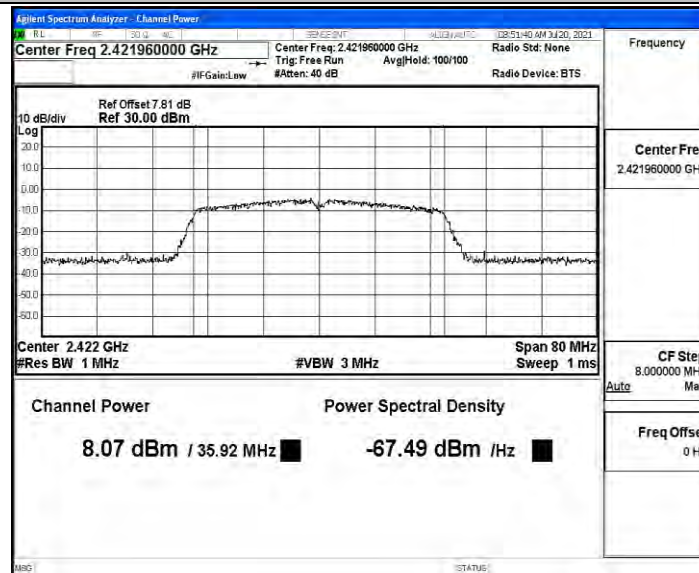
11N20SISO_Ant1_2412



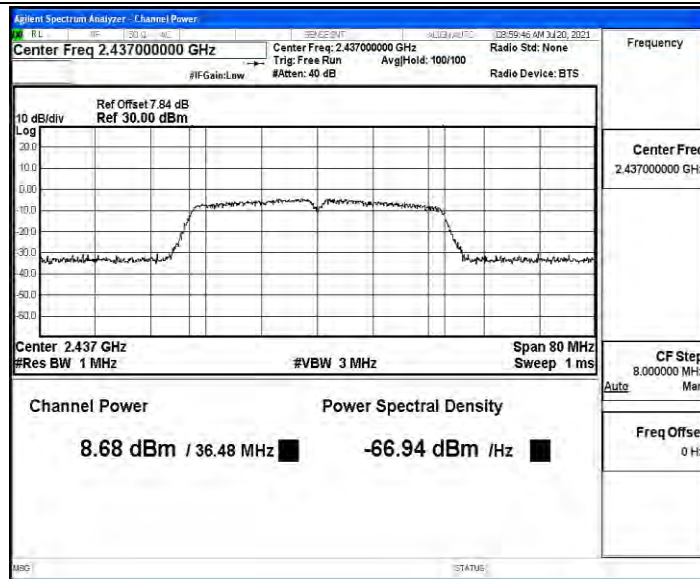
11N20SISO_Ant1_2437



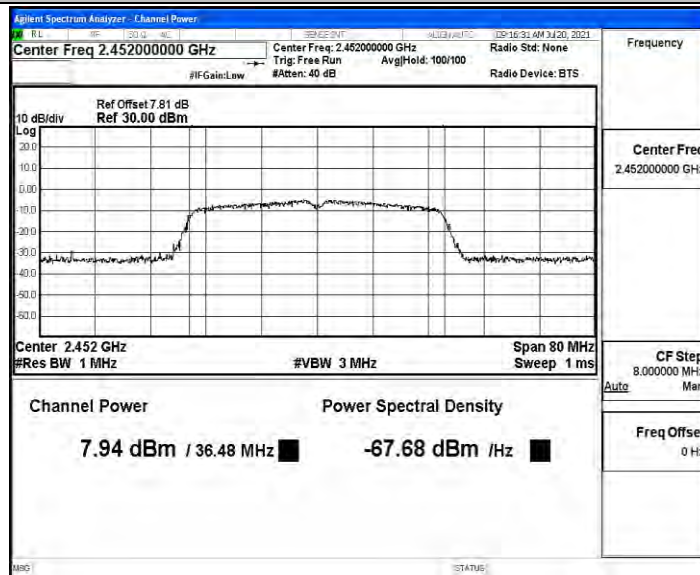
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



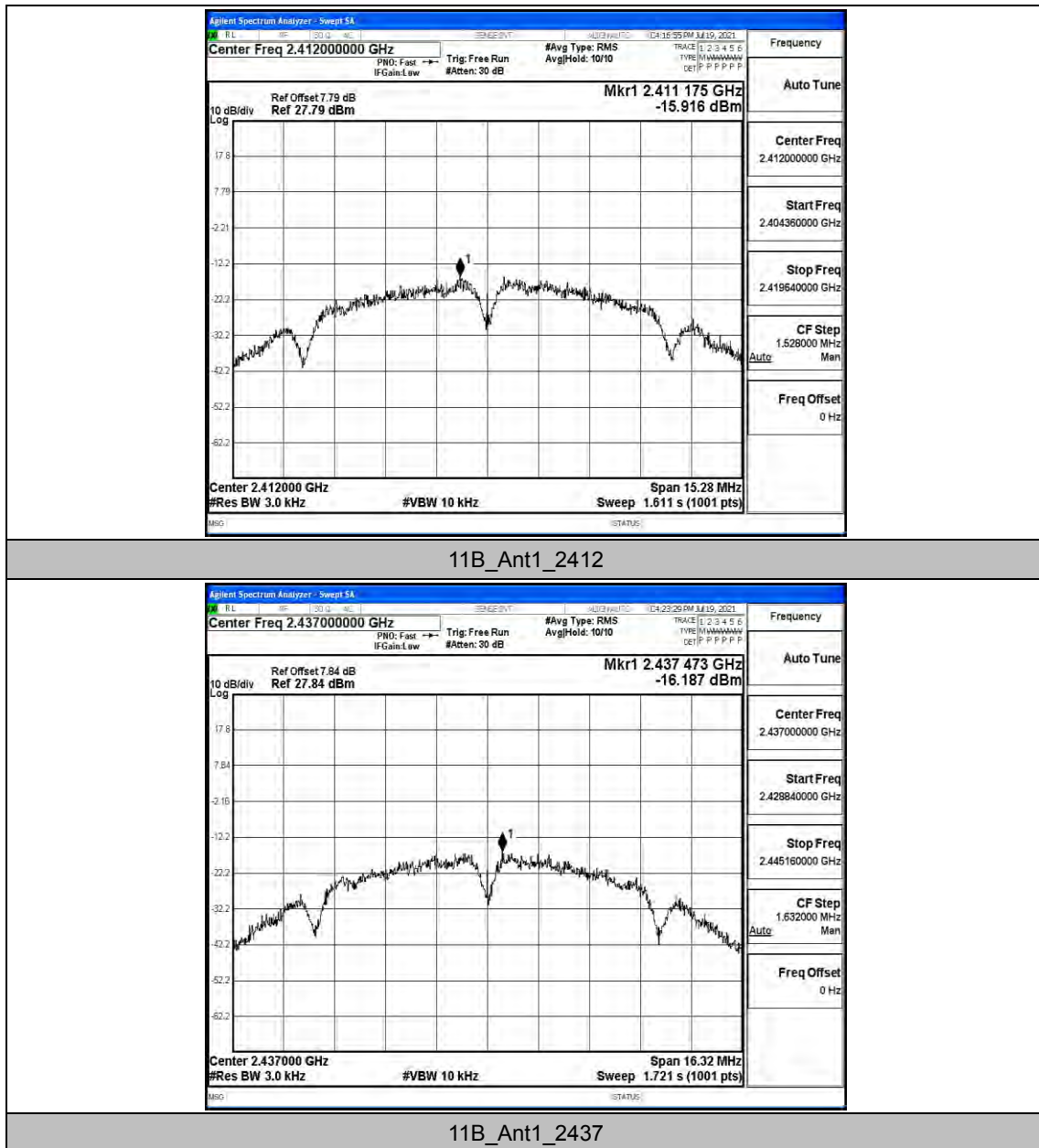
Appendix C.3: Maximum power spectral density

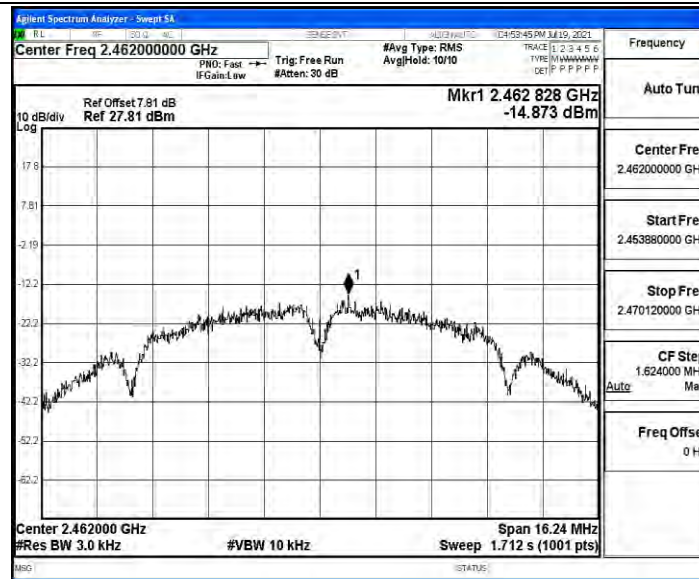
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.92	≤8	PASS
		2437	-16.19	≤8	PASS
		2462	-14.87	≤8	PASS
11G	Ant1	2412	-18.78	≤8	PASS
		2437	-22.85	≤8	PASS
		2462	-19.54	≤8	PASS
11N20SISO	Ant1	2412	-18.4	≤8	PASS
		2437	-20.46	≤8	PASS
		2462	-19.27	≤8	PASS
11N40SISO	Ant1	2422	-19.51	≤8	PASS
		2437	-25.7	≤8	PASS
		2452	-19.91	≤8	PASS

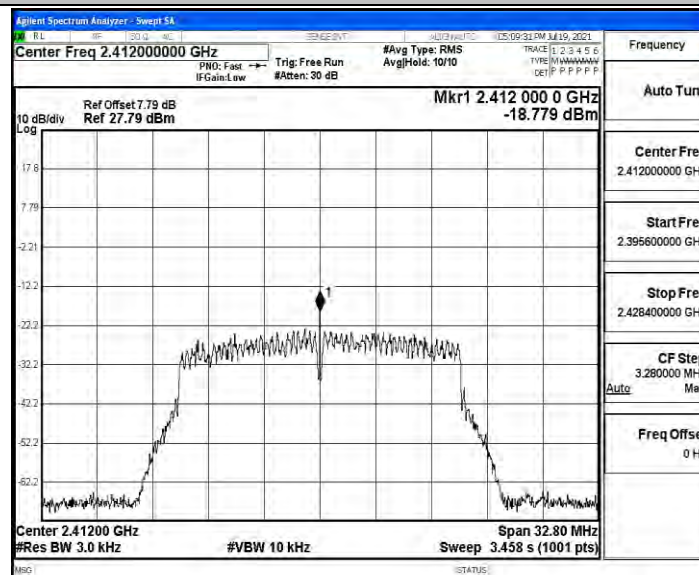


Test Graphs

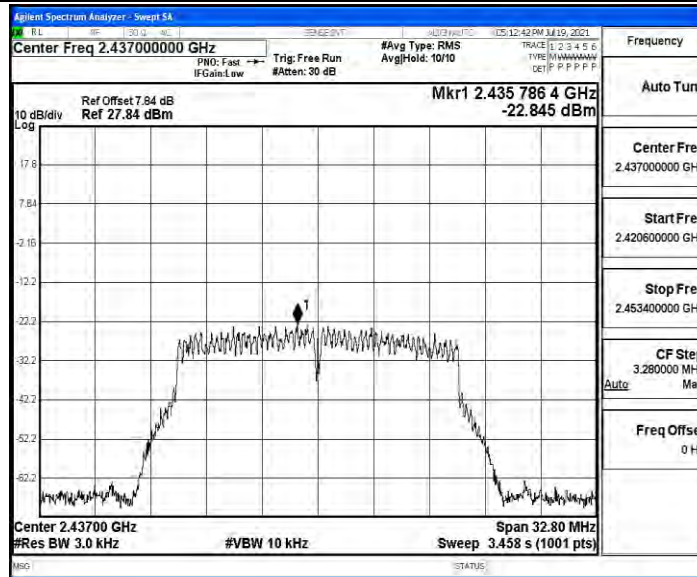




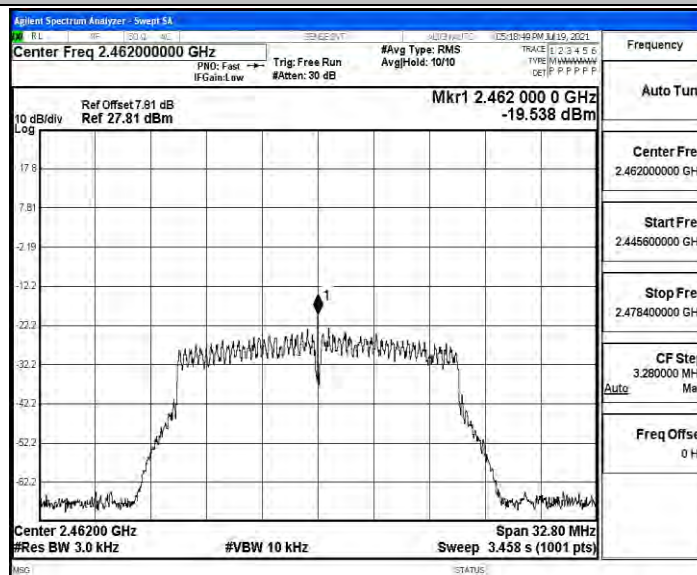
11B_Ant1_2462



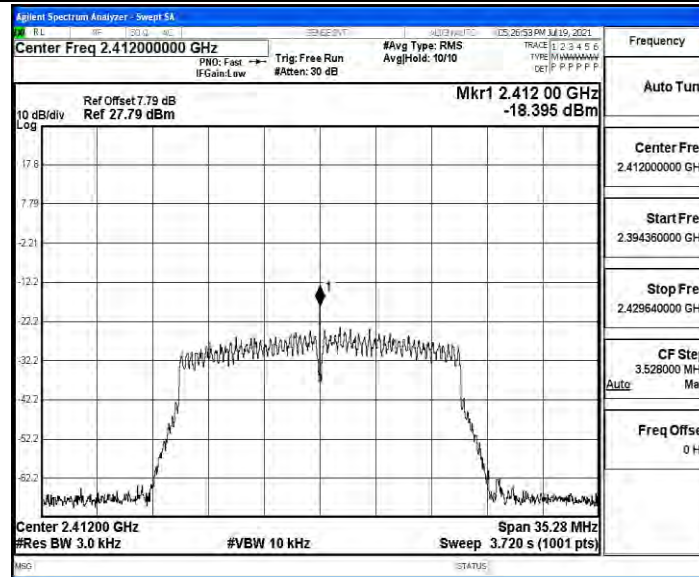
11G_Ant1_2412



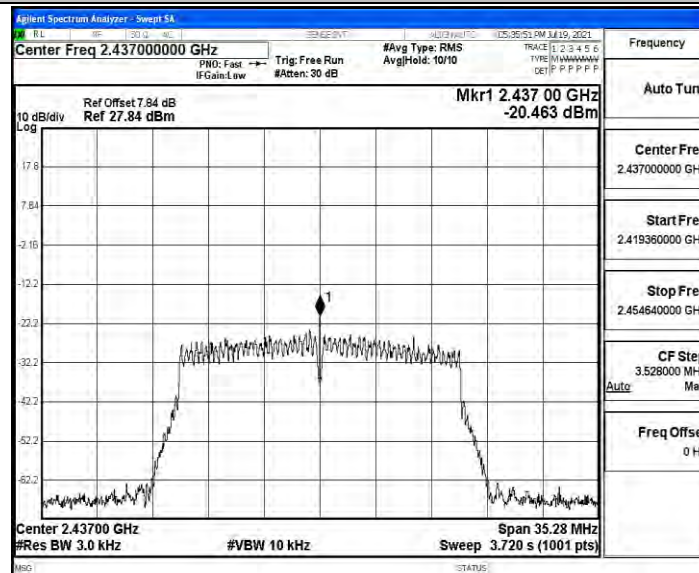
11G_Ant1_2437



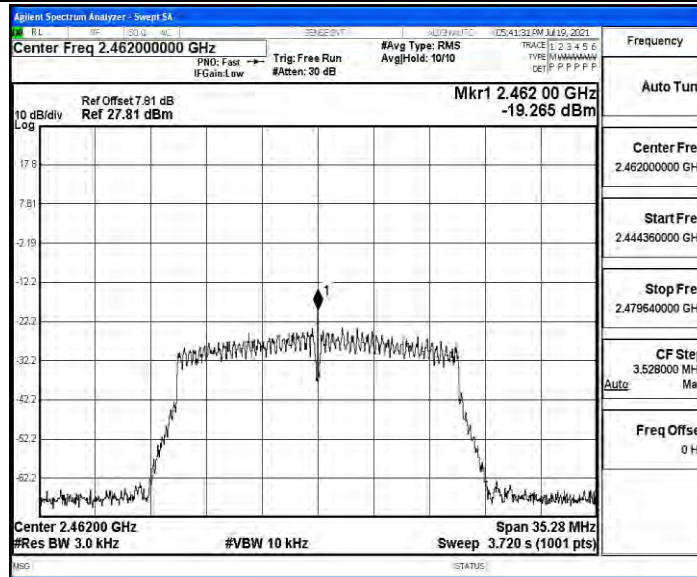
11G_Ant1_2462



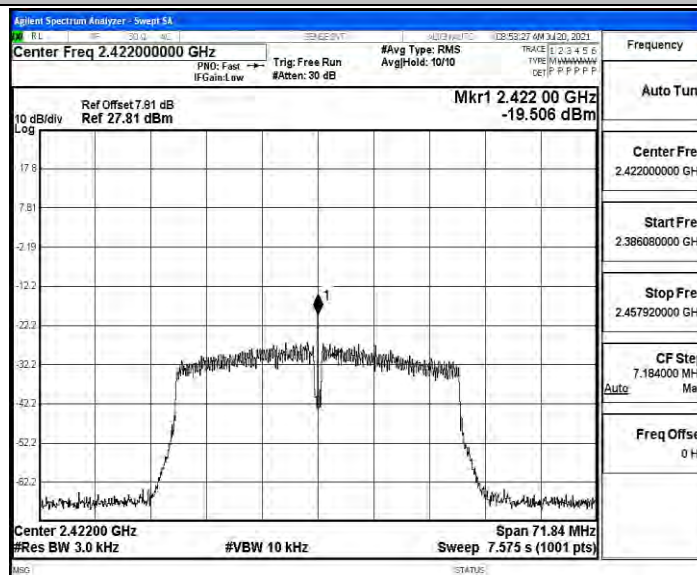
11N20SISO_Ant1_2412



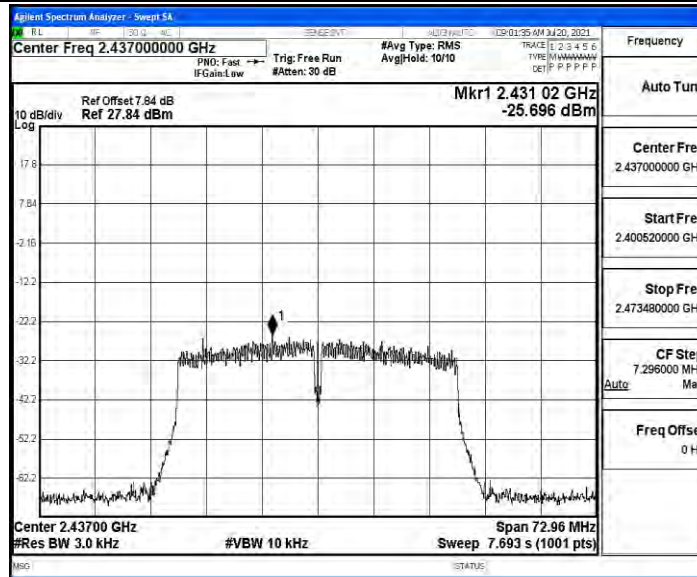
11N20SISO_Ant1_2437



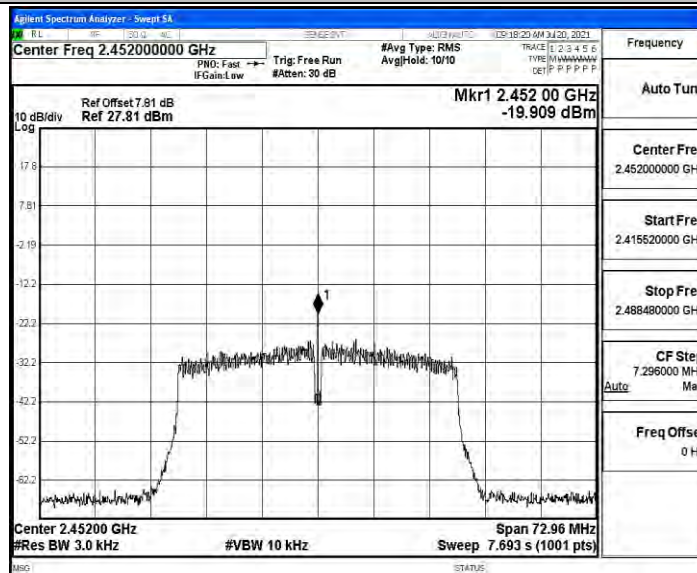
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



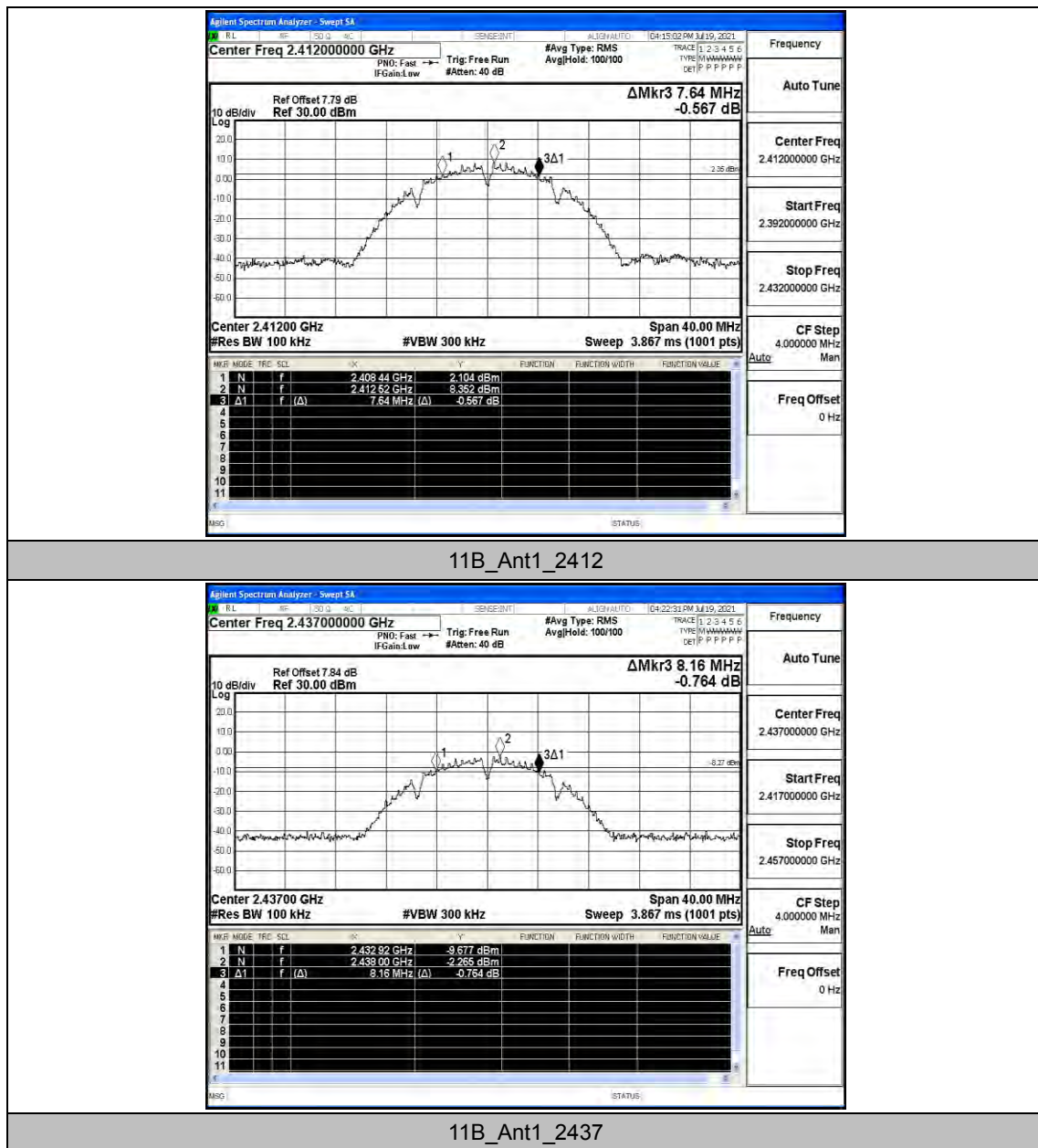
Appendix C.4.1: DTS Bandwidth

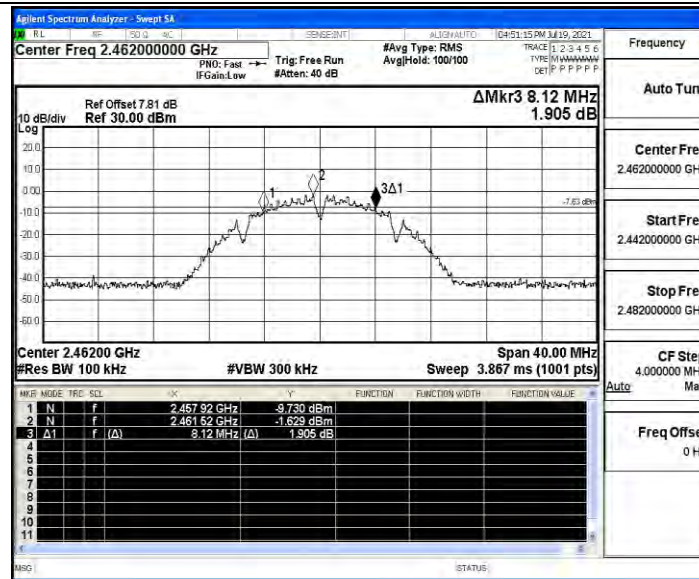
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.640	2408.440	2416.080	0.5	PASS
		2437	8.160	2432.920	2441.080	0.5	PASS
		2462	8.120	2457.920	2466.040	0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.200	2420.840	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.640	2453.200	2470.840	0.5	PASS
11N40SISO	Ant1	2422	35.920	2404.000	2439.920	0.5	PASS
		2437	36.480	2418.760	2455.240	0.5	PASS
		2452	36.480	2433.760	2470.240	0.5	PASS

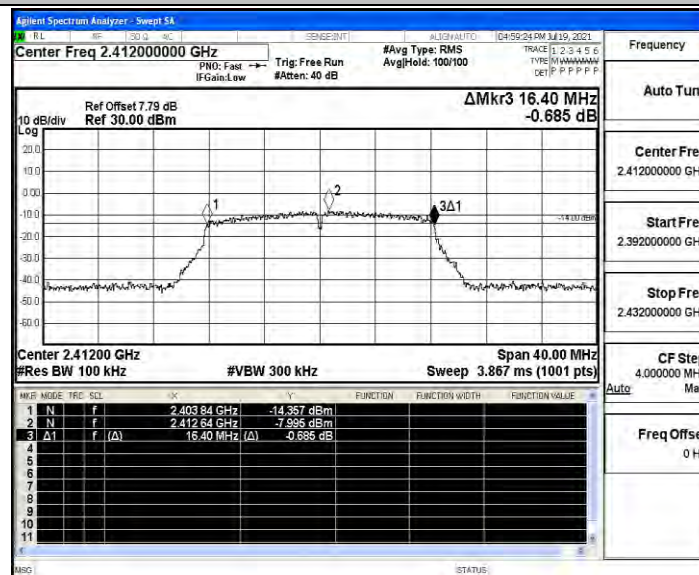


Test Graphs

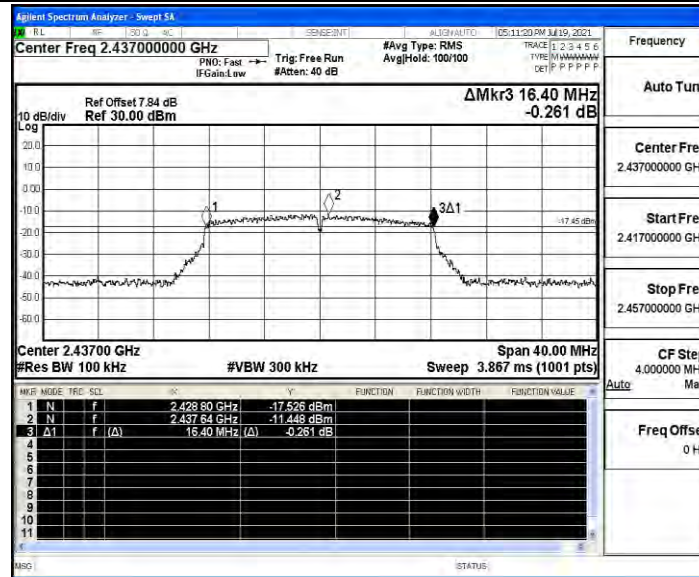




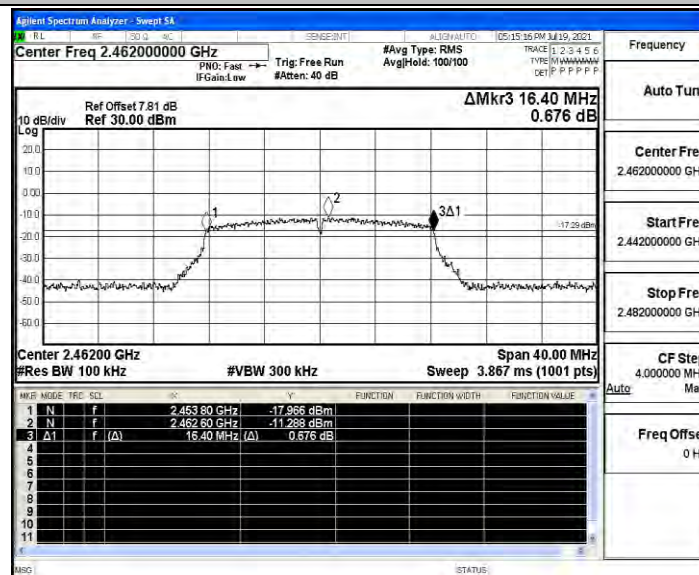
11B_Ant1_2462



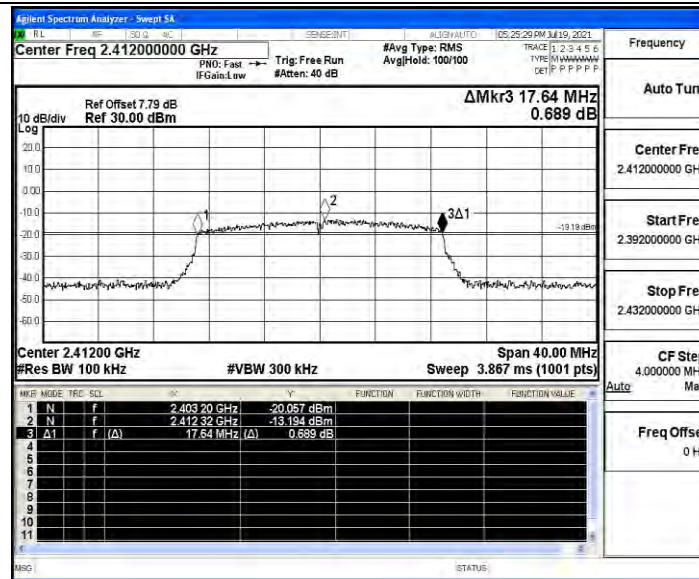
11G_Ant1_2412



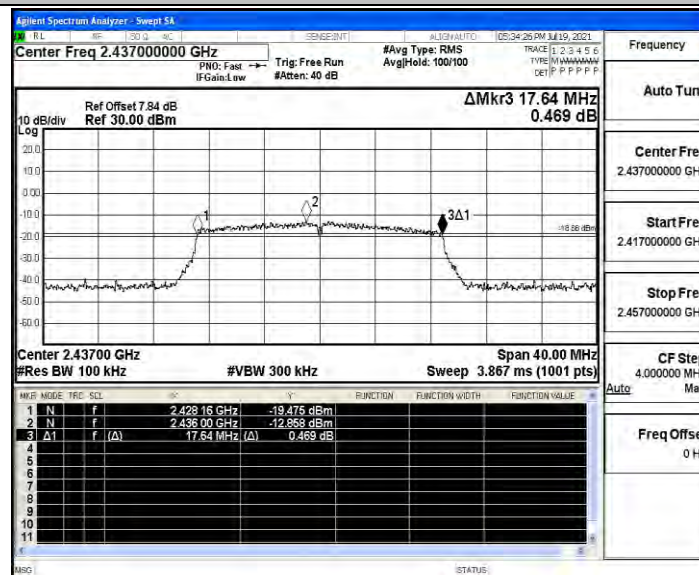
11G_Ant1_2437



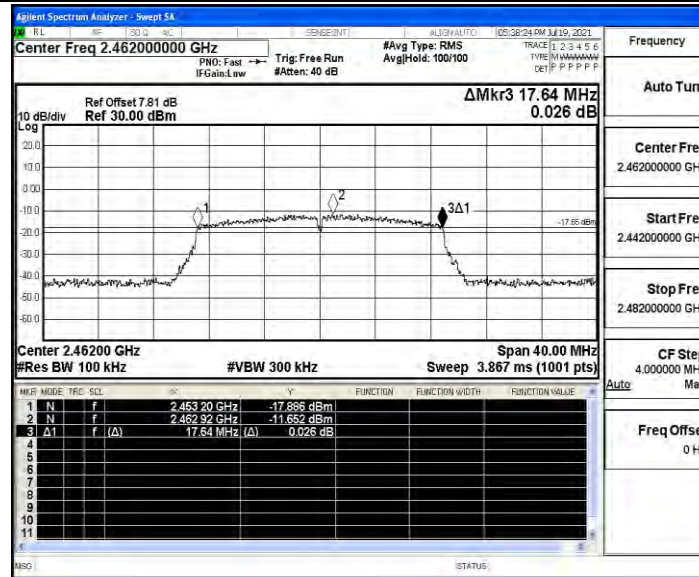
11G_Ant1_2462



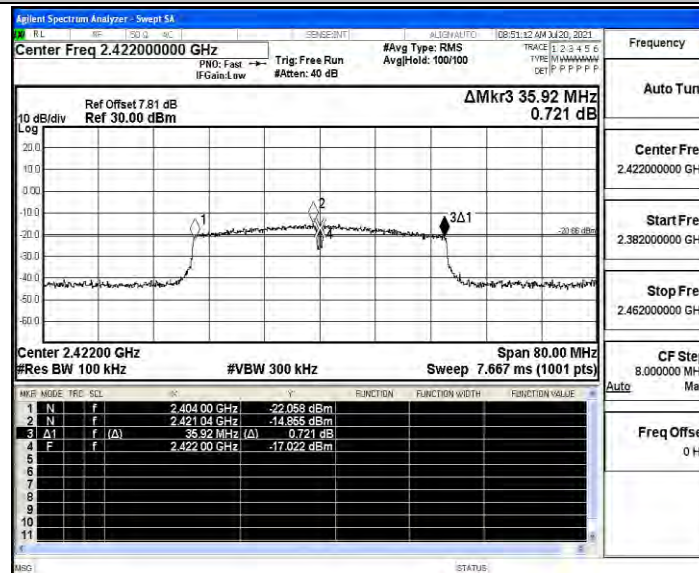
11N20SISO_Ant1_2412



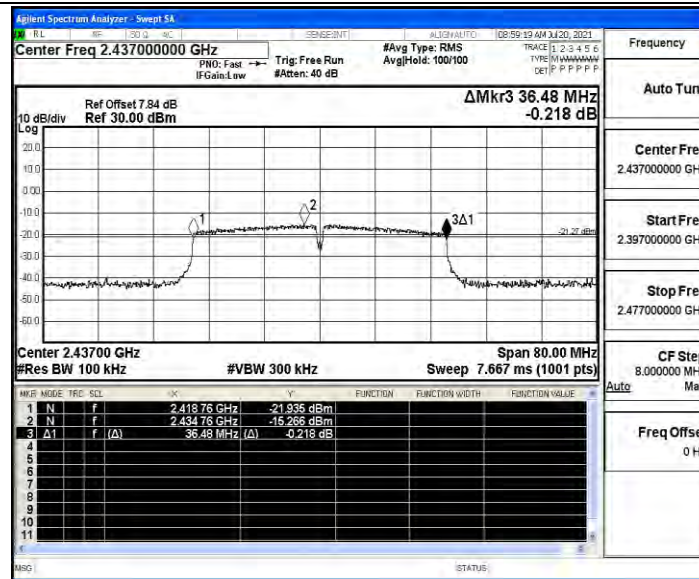
11N20SISO_Ant1_2437



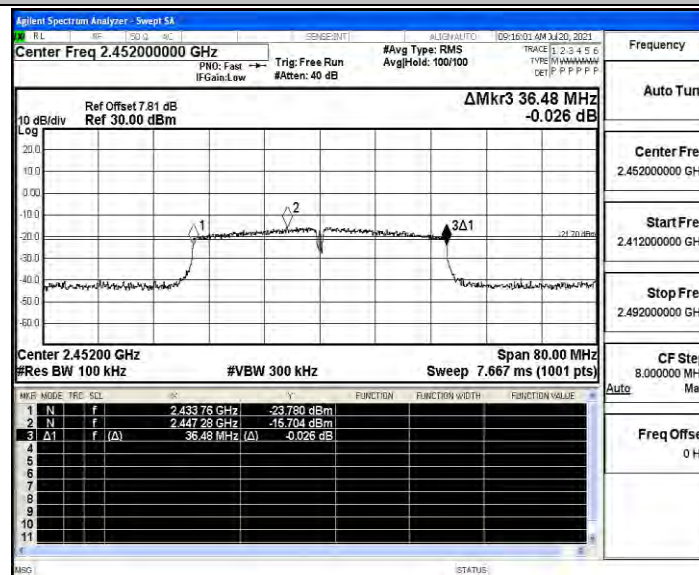
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



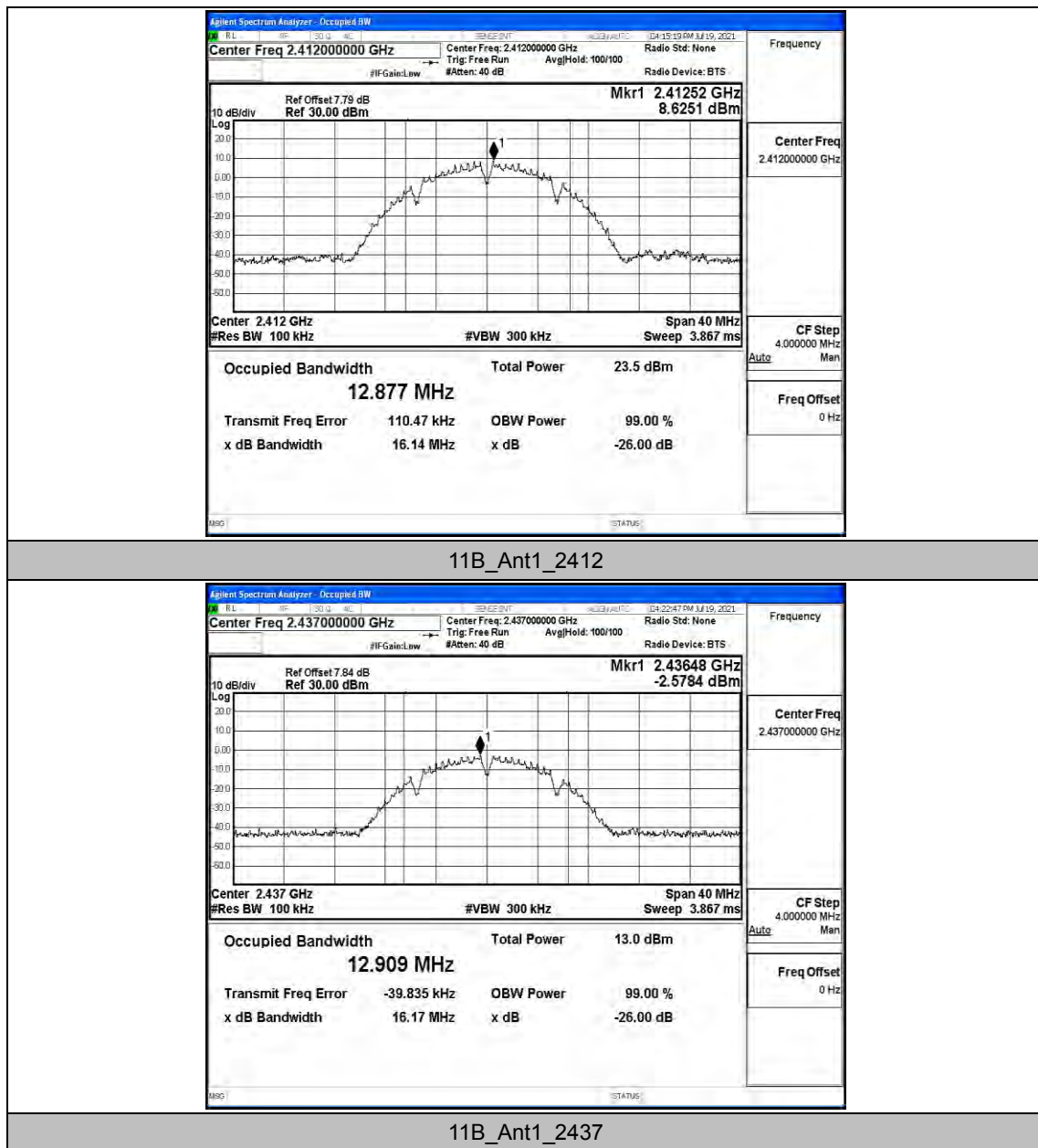
Appendix C.4.2: Occupied Channel Bandwidth

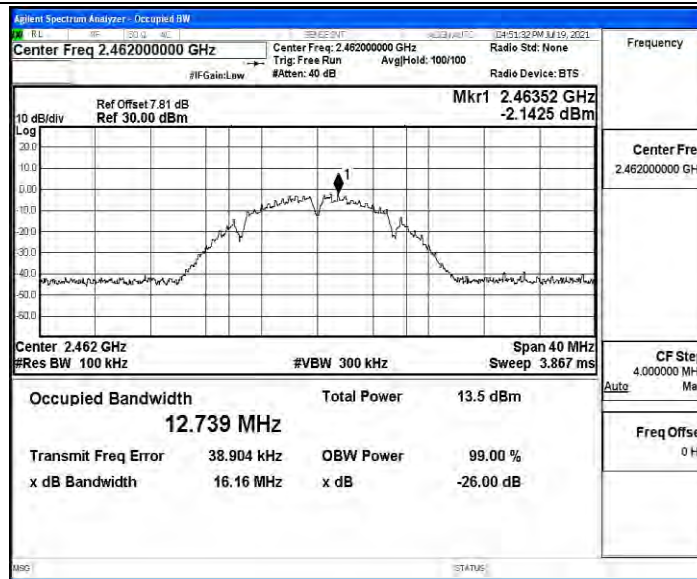
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.877	2405.672	2418.549	---	PASS
		2437	12.909	2430.506	2443.415	---	PASS
		2462	12.739	2455.669	2468.408	---	PASS
11G	Ant1	2412	16.404	2403.835	2420.239	---	PASS
		2437	16.475	2428.753	2445.228	---	PASS
		2462	16.426	2453.792	2470.218	---	PASS
11N20SISO	Ant1	2412	17.591	2403.235	2420.826	---	PASS
		2437	17.662	2428.162	2445.824	---	PASS
		2462	17.608	2453.206	2470.814	---	PASS
11N40SISO	Ant1	2422	36.166	2403.922	2440.088	---	PASS
		2437	36.218	2418.867	2455.085	---	PASS
		2452	36.261	2433.871	2470.132	---	PASS

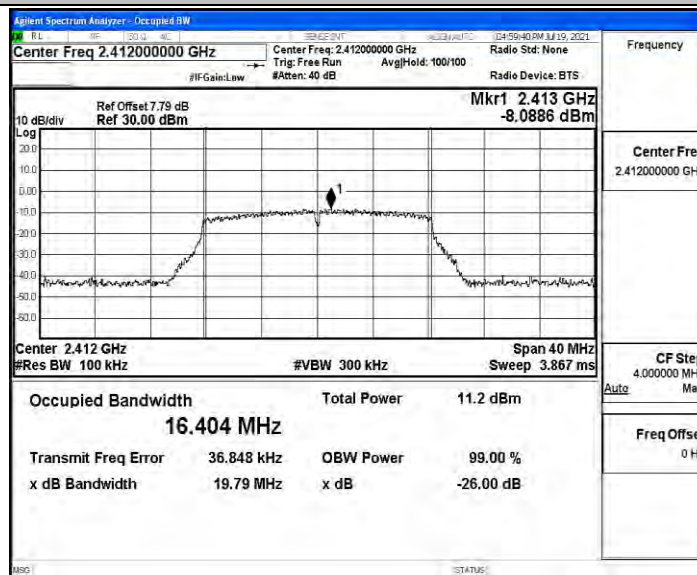


Test Graphs

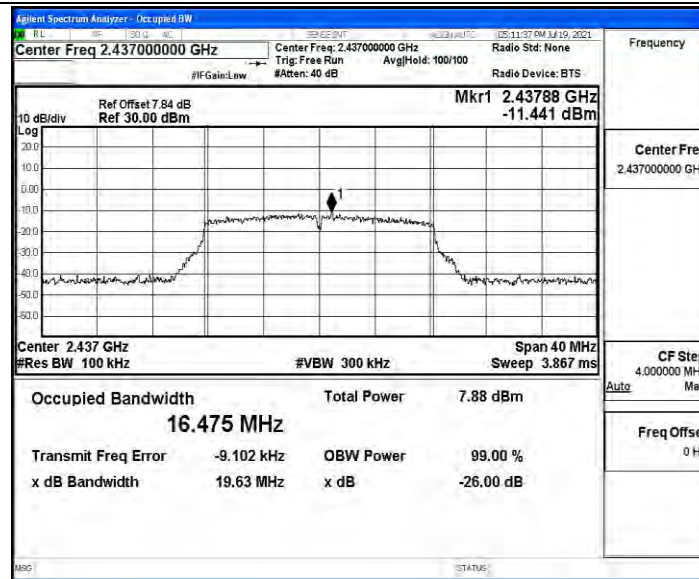




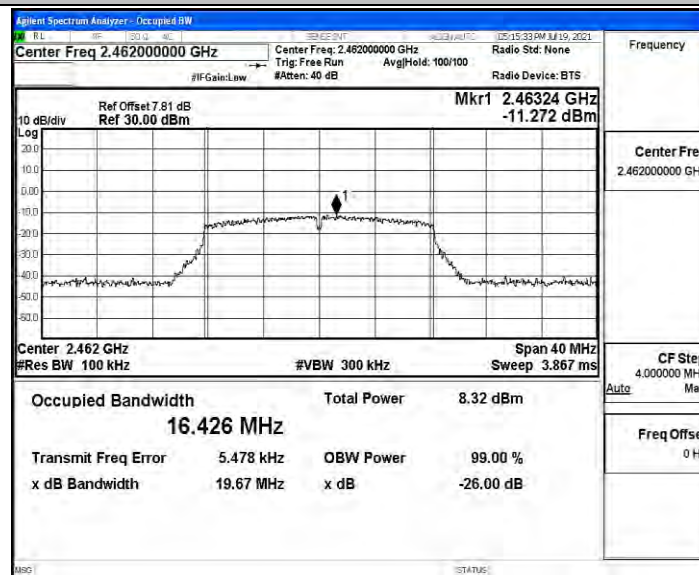
11B_Ant1_2462



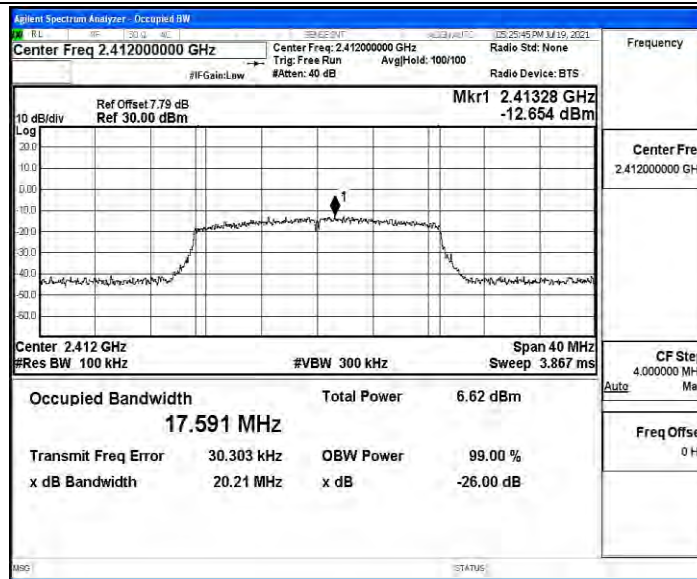
11G_Ant1_2412



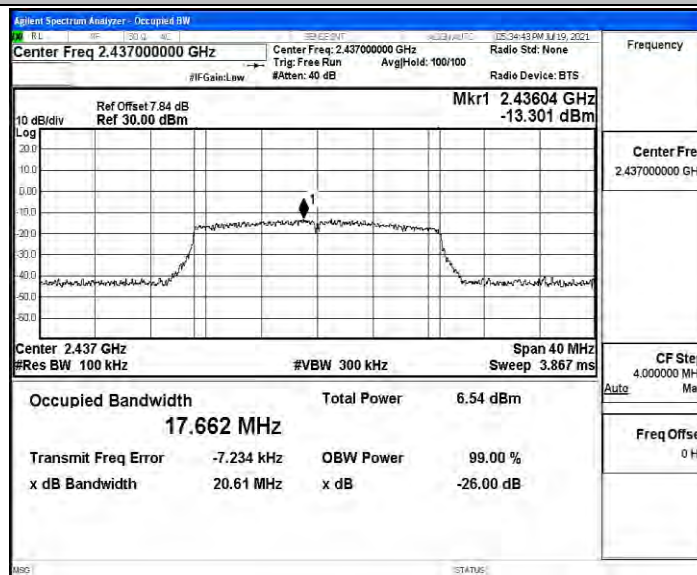
11G_Ant1_2437



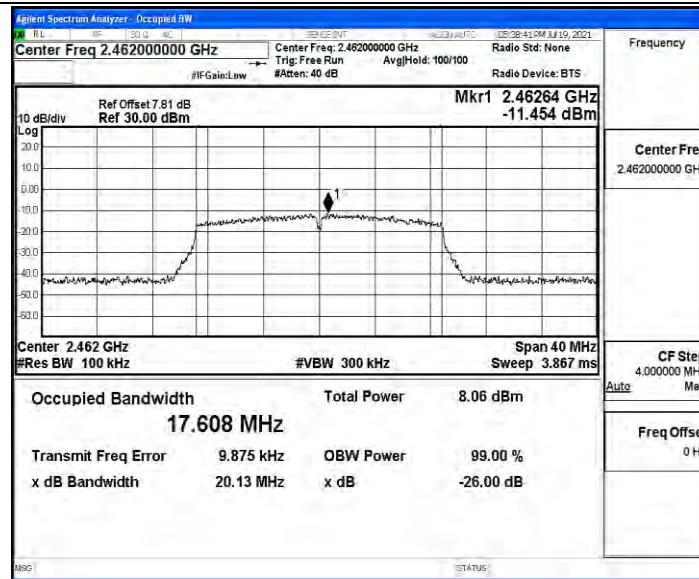
11G_Ant1_2462



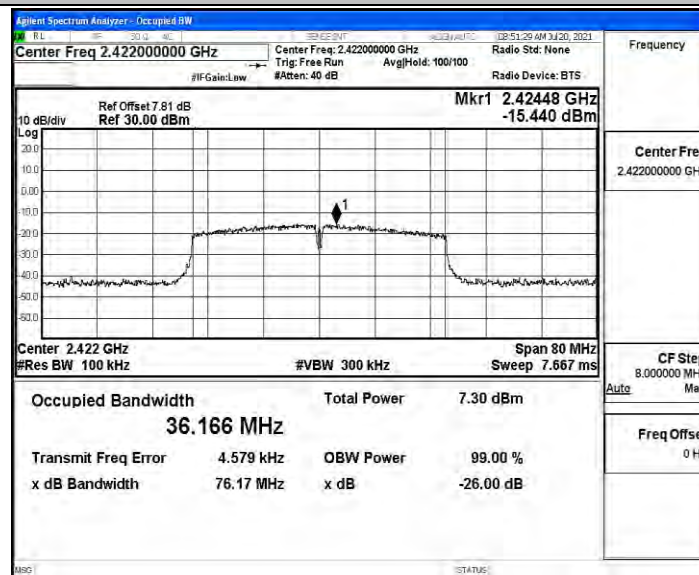
11N20SISO_Ant1_2412



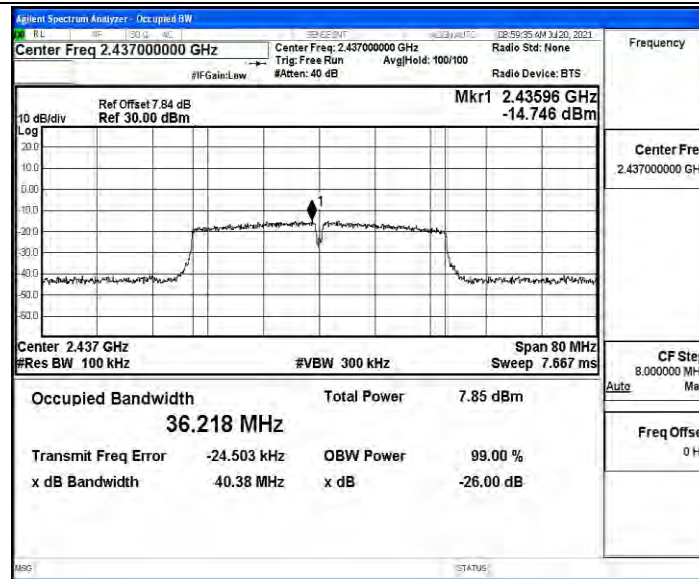
11N20SISO_Ant1_2437



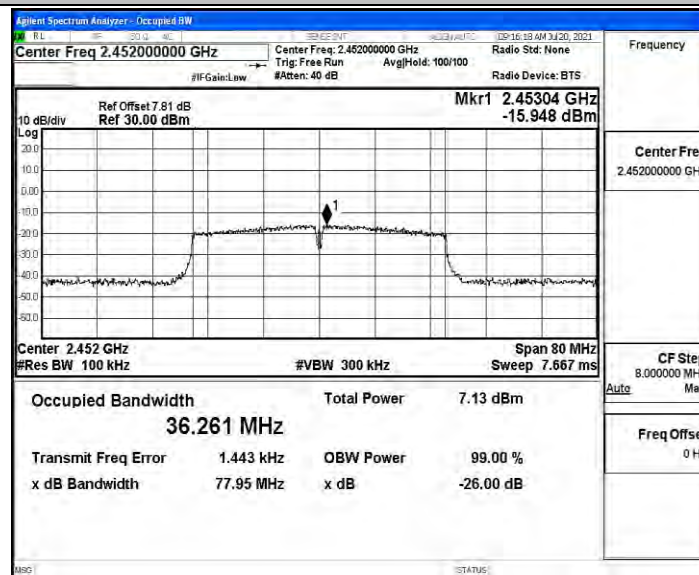
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



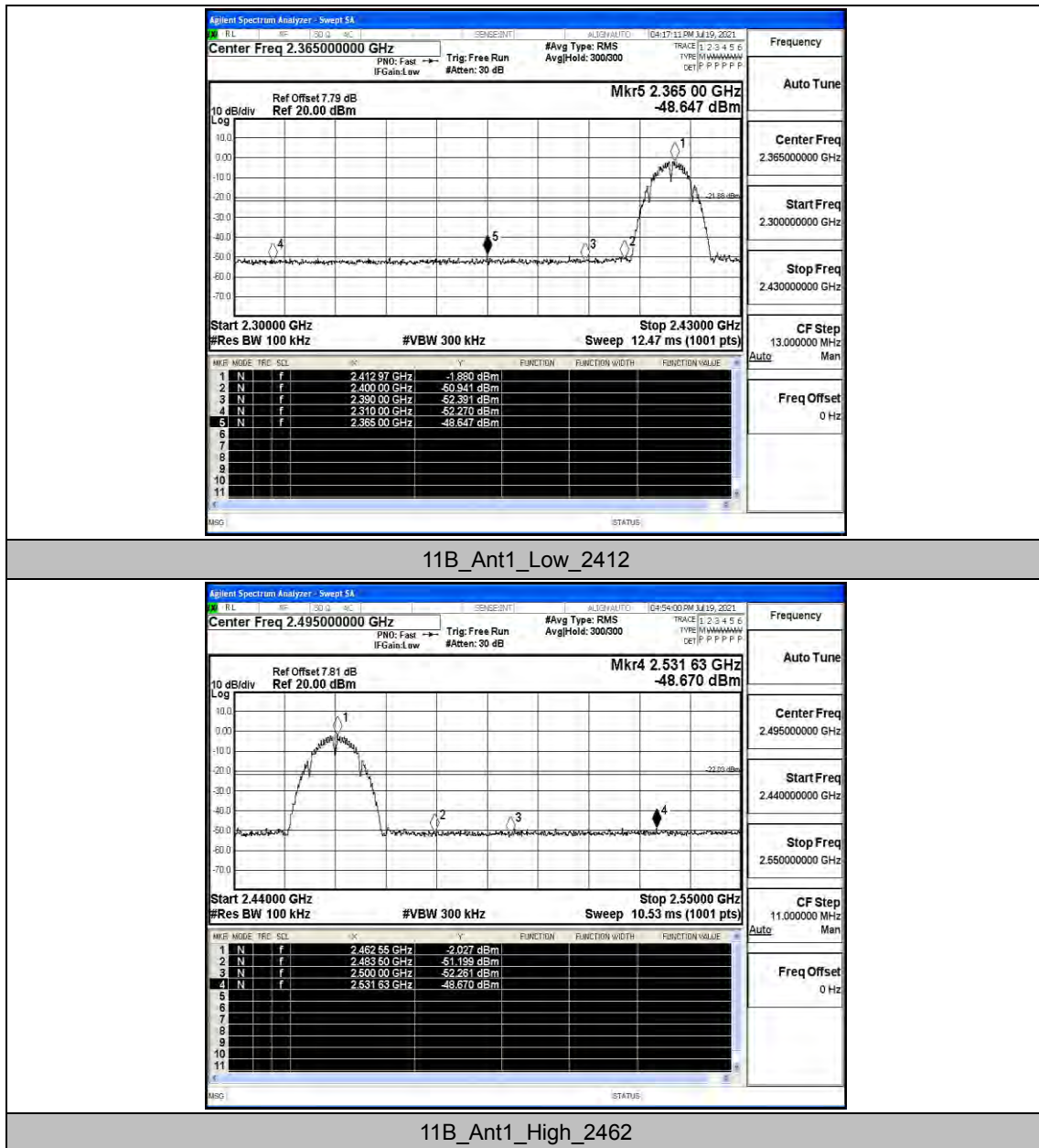
Appendix C.5: Band edge measurements

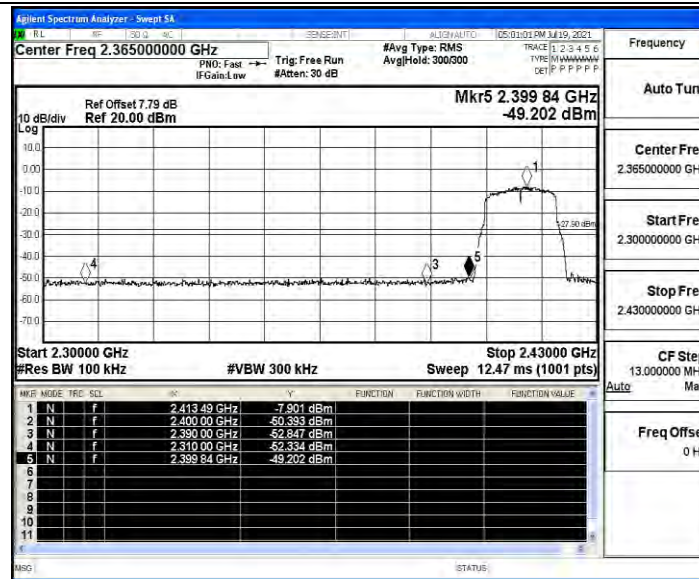
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.88	-48.65	≤ -21.88	PASS
		High	2462	-2.03	-48.67	≤ -22.03	PASS
11G	Ant1	Low	2412	-7.90	-49.2	≤ -27.9	PASS
		High	2462	-12.44	-48.84	≤ -32.44	PASS
11N20SISO	Ant1	Low	2412	-13.00	-49.4	≤ -33	PASS
		High	2462	-12.82	-48.79	≤ -32.82	PASS
11N40SISO	Ant1	Low	2422	-15.04	-49.78	≤ -35.04	PASS
		High	2452	-15.81	-49	≤ -35.81	PASS

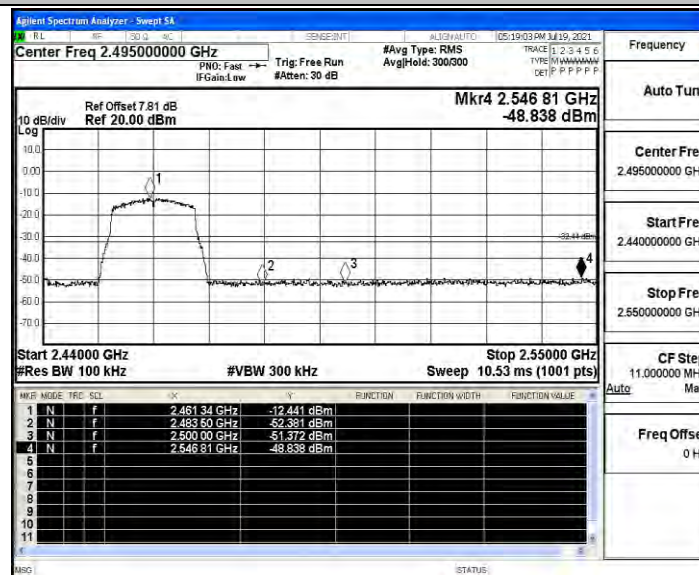


Test Graphs

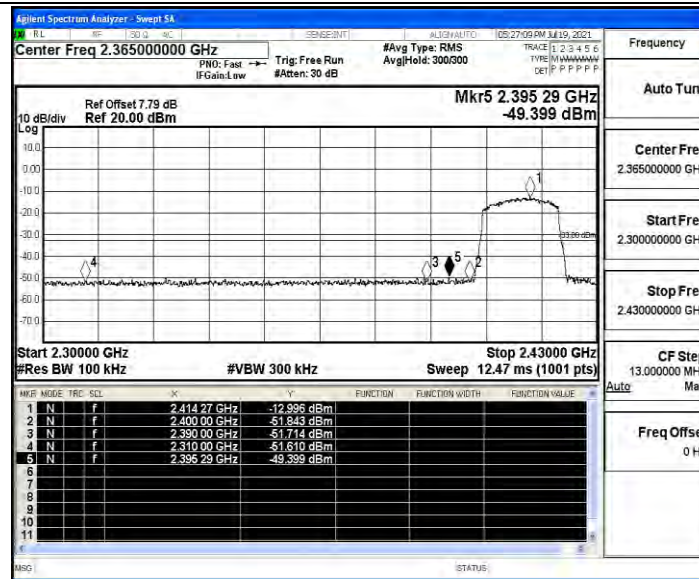




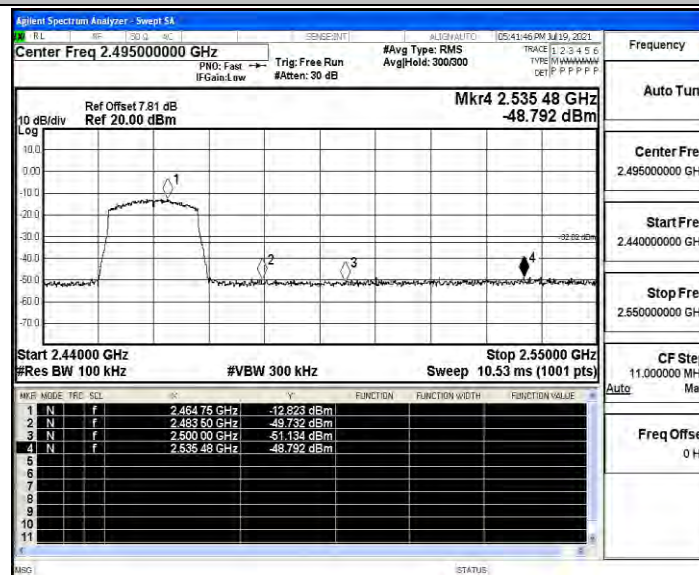
11G_Ant1_Low_2412



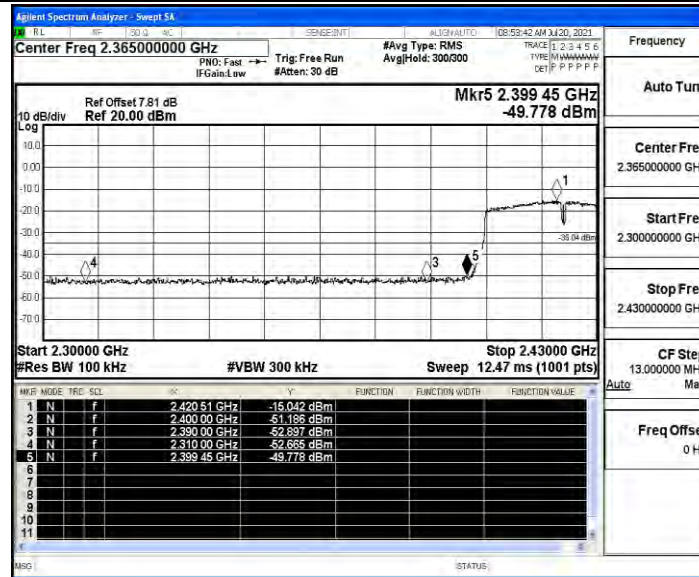
11G_Ant1_High_2462



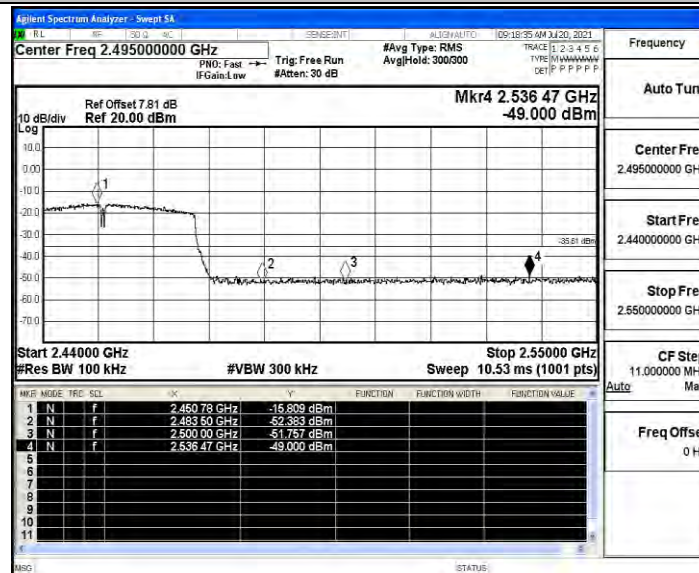
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



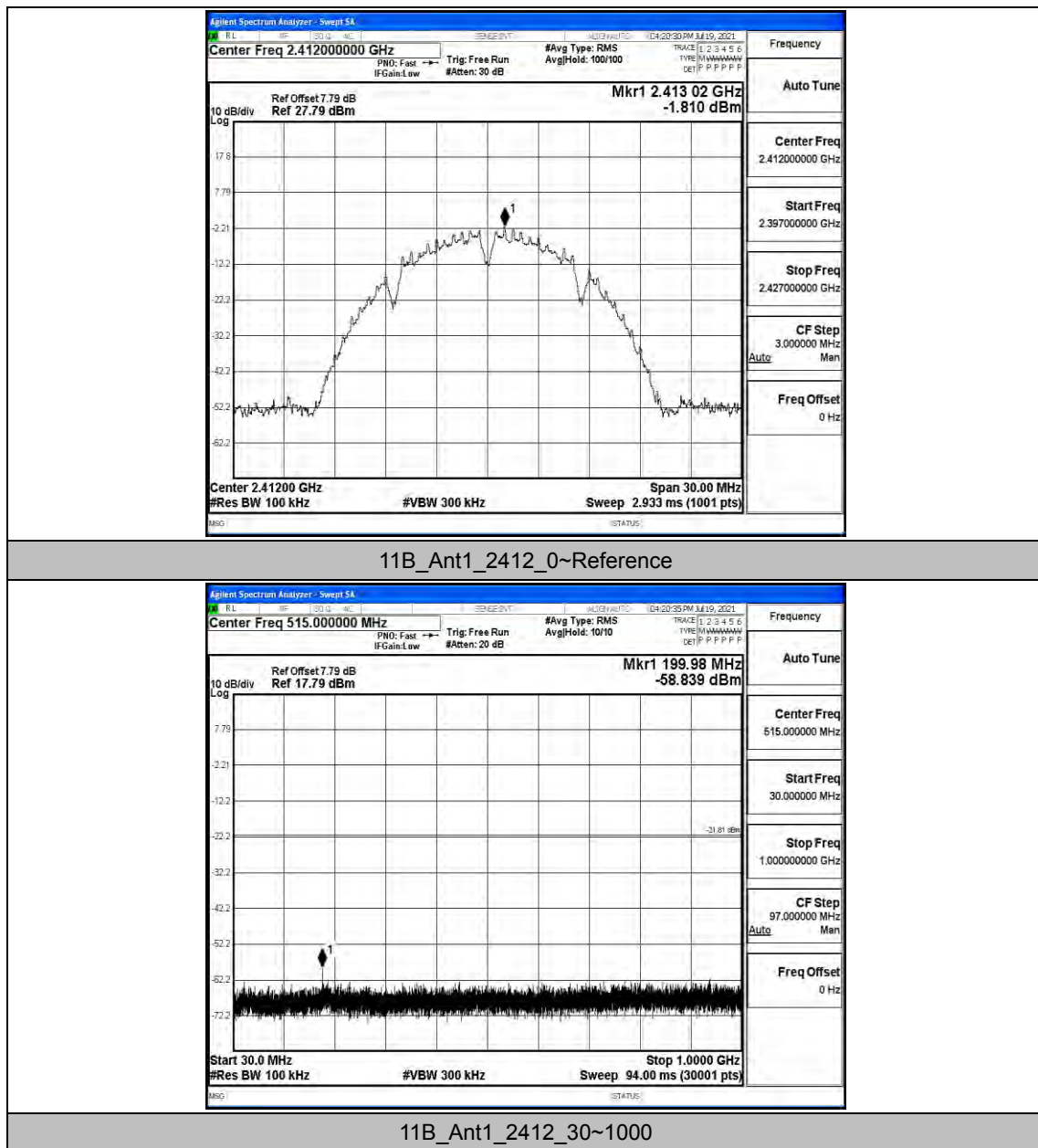
Appendix C.6: Conducted Spurious Emission

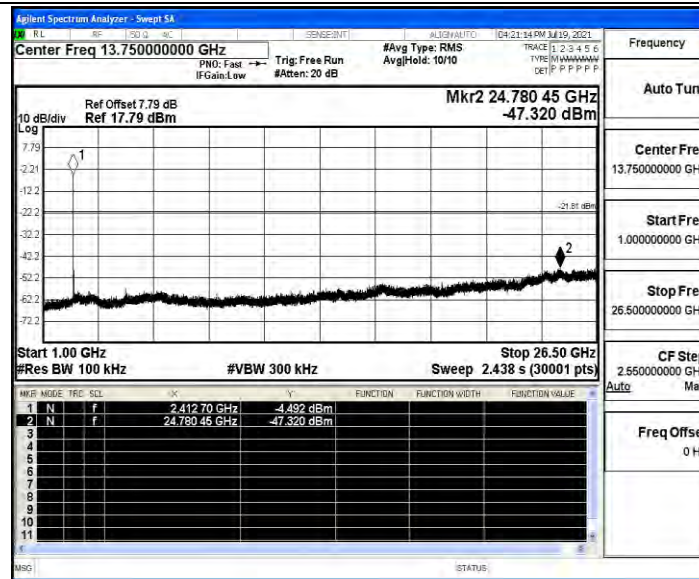
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-58.84	≤ -21.81	PASS
			1000~26500	-1.81	-47.32	≤ -21.81	PASS
		2437	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-58.8	≤ -21.48	PASS
			1000~26500	-1.48	-47.65	≤ -21.48	PASS
		2462	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-58.69	≤ -22.16	PASS
			1000~26500	-2.16	-46.73	≤ -22.16	PASS
11G	Ant1	2412	Reference	-7.82	-7.82	---	PASS
			30~1000	-7.82	-57.91	≤ -27.82	PASS
			1000~26500	-7.82	-46.42	≤ -27.82	PASS
		2437	Reference	-11.84	-11.84	---	PASS
			30~1000	-11.84	-58.26	≤ -31.84	PASS
			1000~26500	-11.84	-47.59	≤ -31.84	PASS
		2462	Reference	-12.81	-12.81	---	PASS
			30~1000	-12.81	-57.4	≤ -32.81	PASS
			1000~26500	-12.81	-47.25	≤ -32.81	PASS
11N20SISO	Ant1	2412	Reference	-13.35	-13.35	---	PASS
			30~1000	-13.35	-56.61	≤ -33.35	PASS
			1000~26500	-13.35	-45.97	≤ -33.35	PASS
		2437	Reference	-13.59	-13.59	---	PASS
			30~1000	-13.59	-58.33	≤ -33.59	PASS
			1000~26500	-13.59	-47.33	≤ -33.59	PASS
		2462	Reference	-12.51	-12.51	---	PASS
			30~1000	-12.51	-56.21	≤ -32.51	PASS
			1000~26500	-12.51	-47.18	≤ -32.51	PASS
11N40SISO	Ant1	2422	Reference	-15.26	-15.26	---	PASS
			30~1000	-15.26	-62.08	≤ -35.26	PASS
			1000~26500	-15.26	-47.32	≤ -35.26	PASS
		2437	Reference	-15.30	-15.30	---	PASS
			30~1000	-15.30	-62.2	≤ -35.3	PASS
			1000~26500	-15.30	-47.05	≤ -35.3	PASS
		2452	Reference	-15.74	-15.74	---	PASS
			30~1000	-15.74	-61.23	≤ -35.74	PASS
			1000~26500	-15.74	-47.61	≤ -35.74	PASS

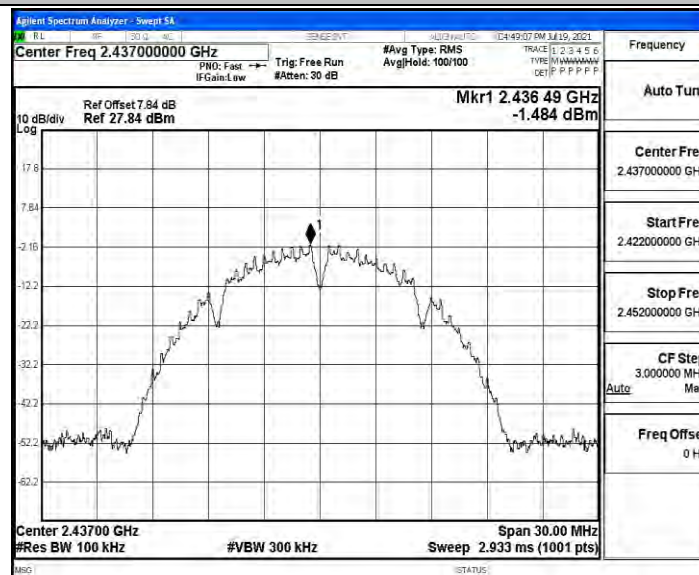


Test Graphs

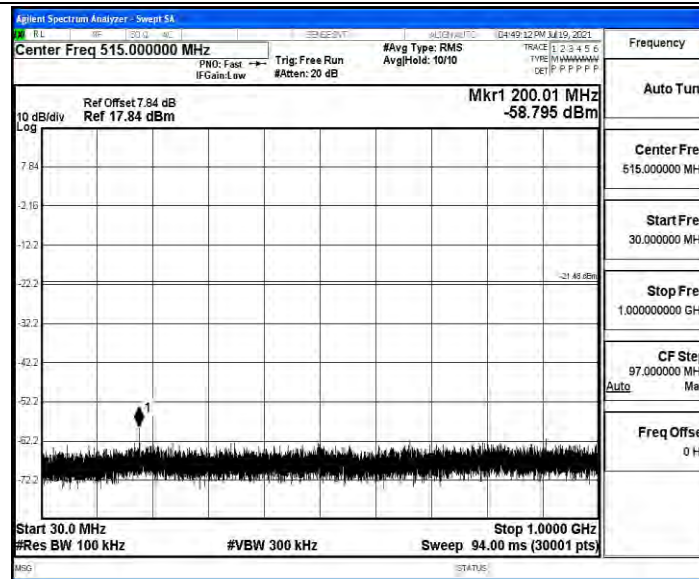




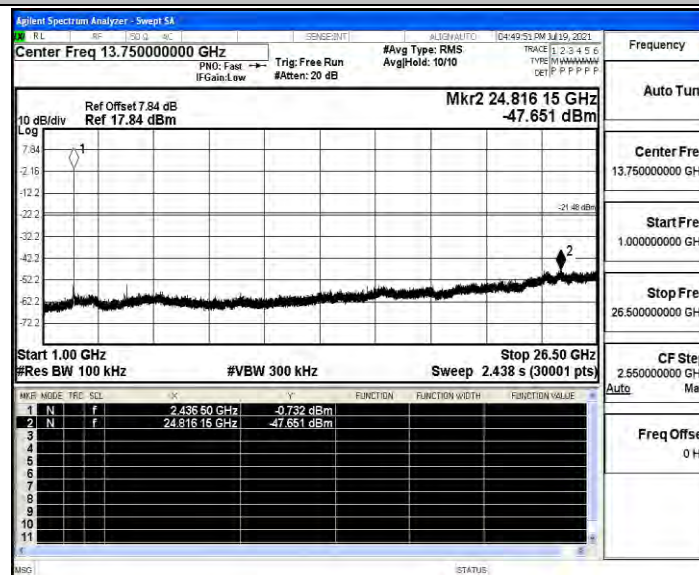
11B_Ant1_2412_1000~26500



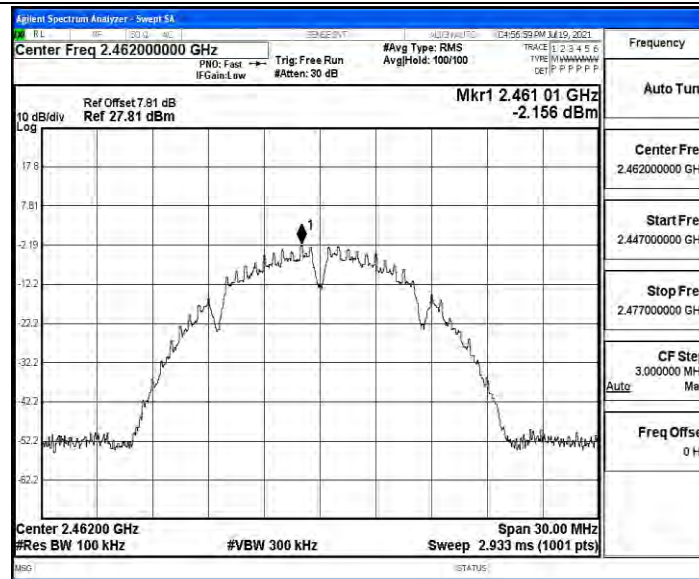
11B_Ant1_2437_0~Reference



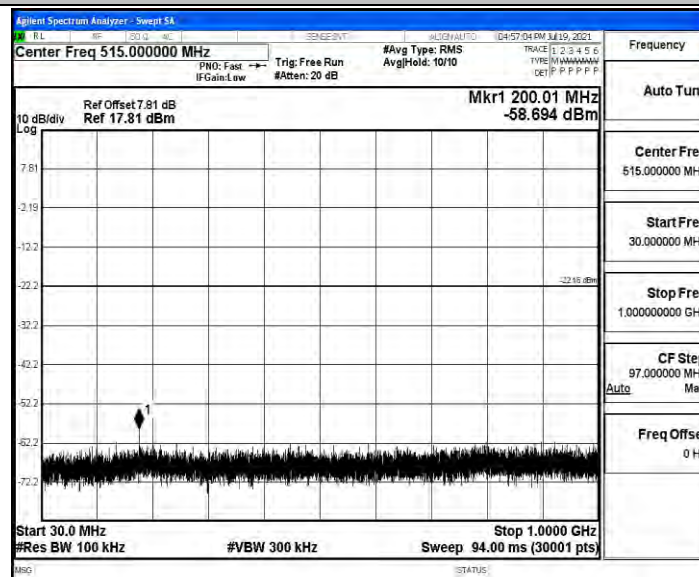
11B_Ant1_2437_30~1000



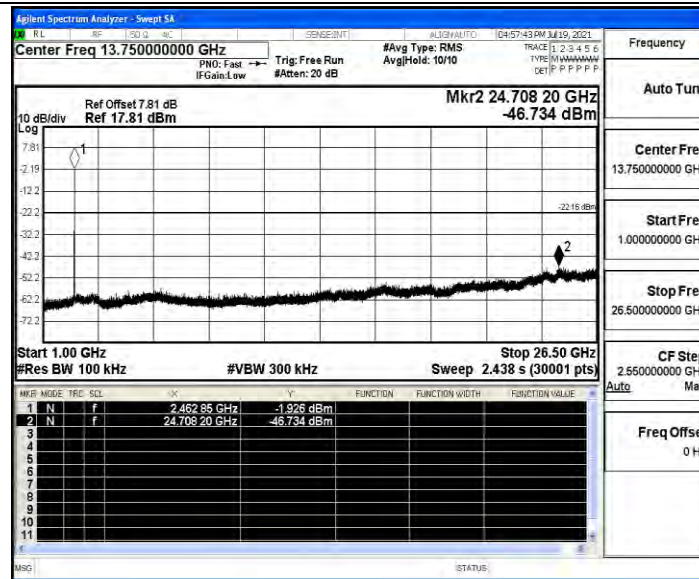
11B_Ant1_2437_1000~26500



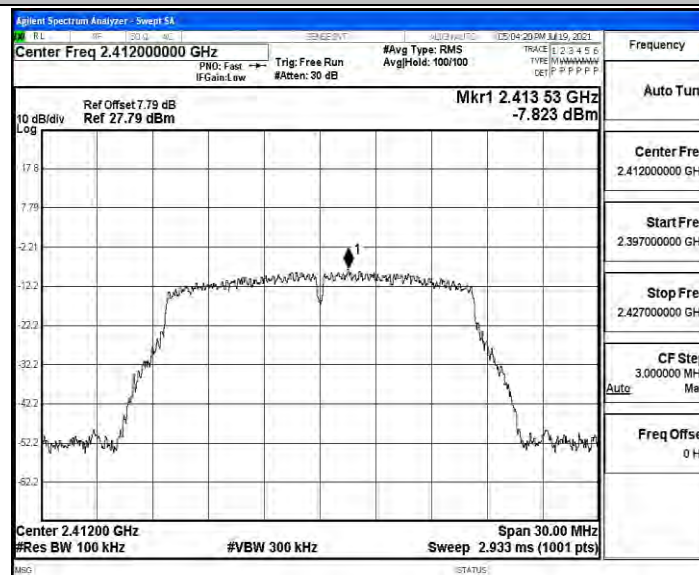
11B_Ant1_2462_0~Reference



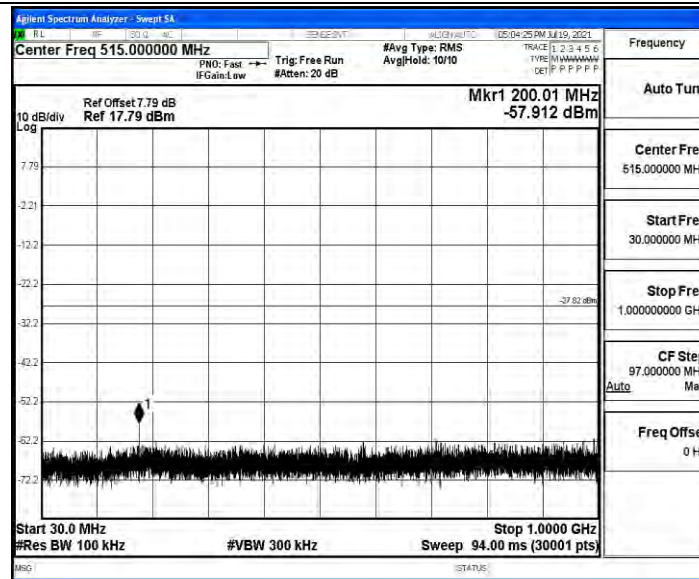
11B_Ant1_2462_30~1000



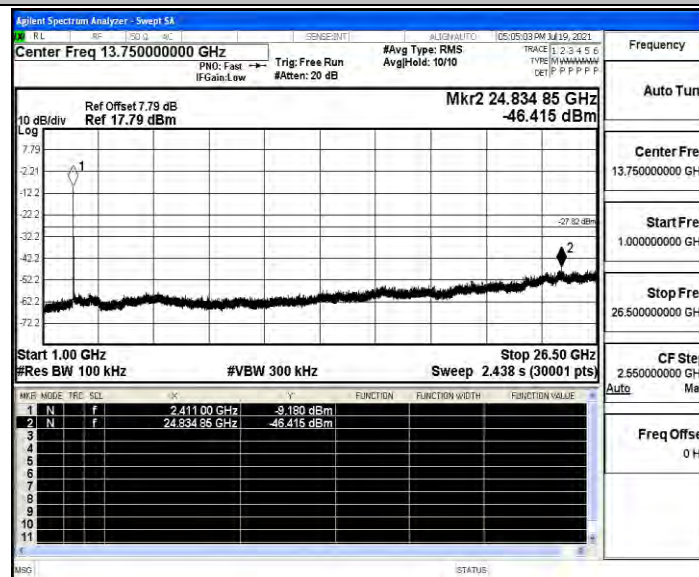
11B_Ant1_2462_1000~26500



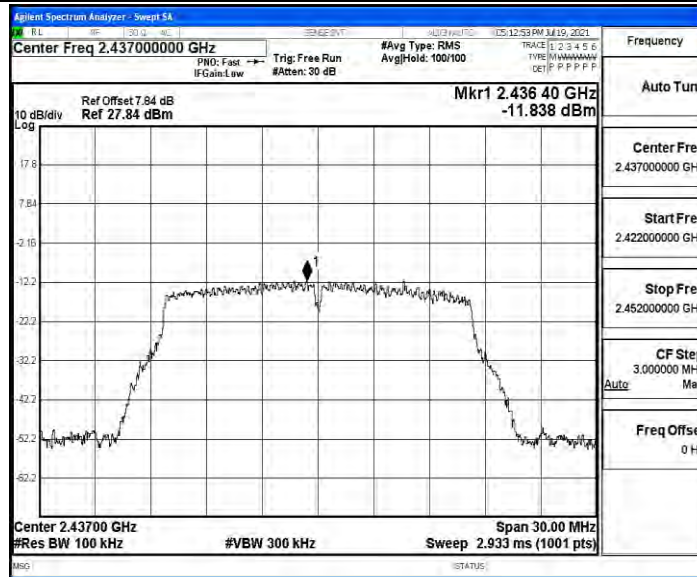
11G_Ant1_2412_0~Reference



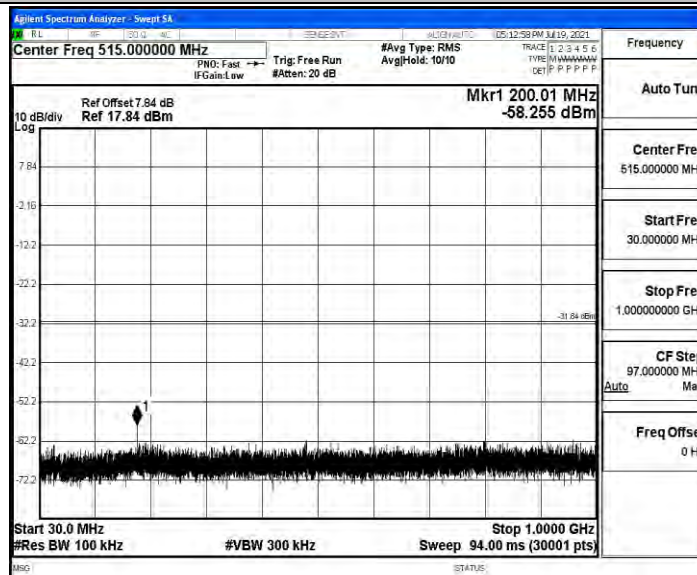
11G_Ant1_2412_30~1000



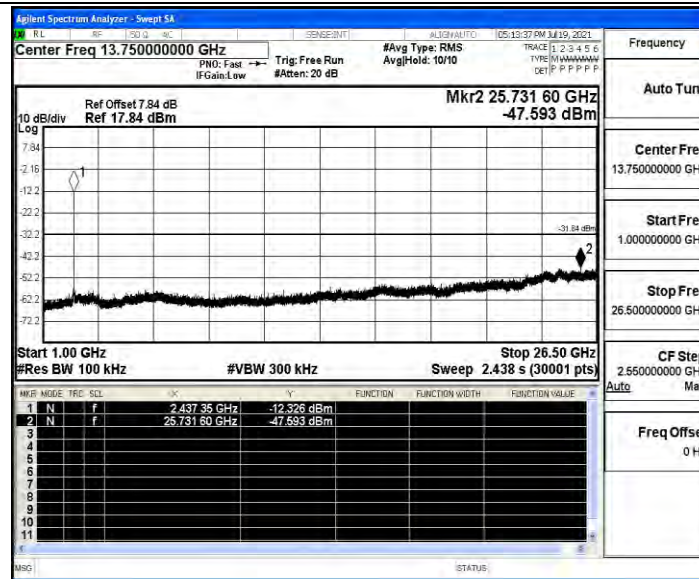
11G_Ant1_2412_1000~26500



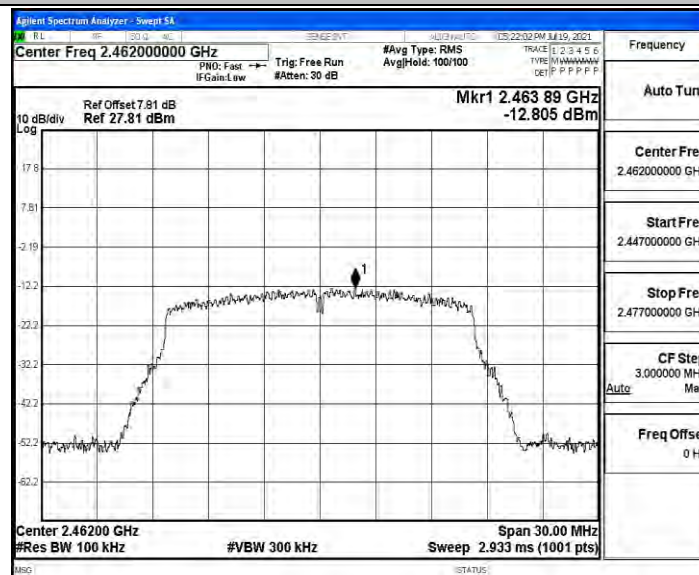
11G_Ant1_2437_0~Reference



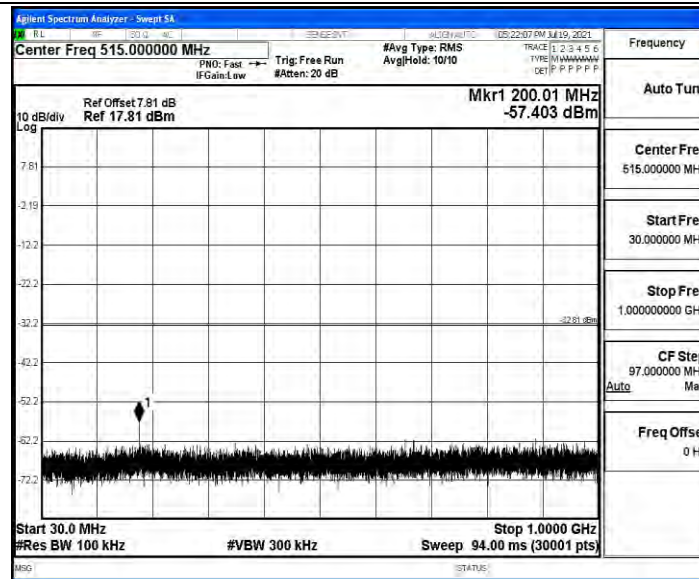
11G_Ant1_2437_30~1000



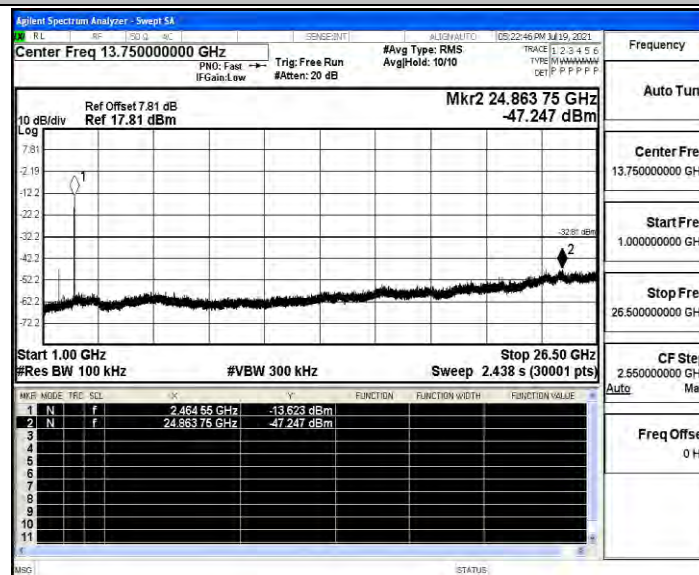
11G_Ant1_2437_1000~26500



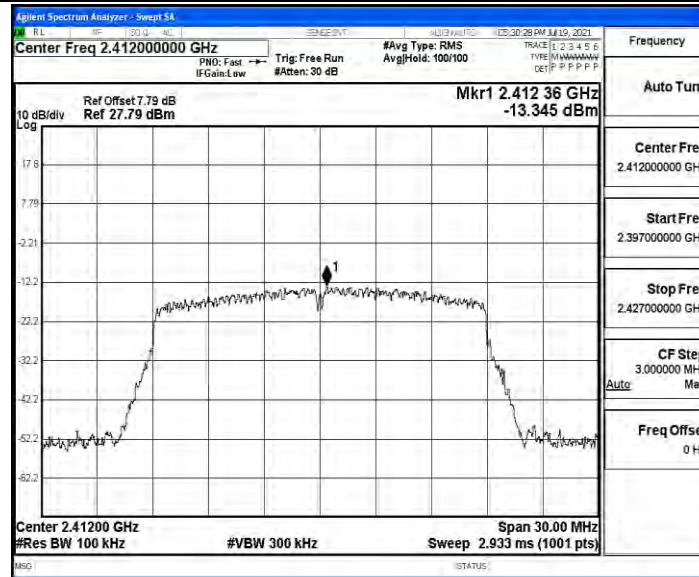
11G_Ant1_2462_0~Reference



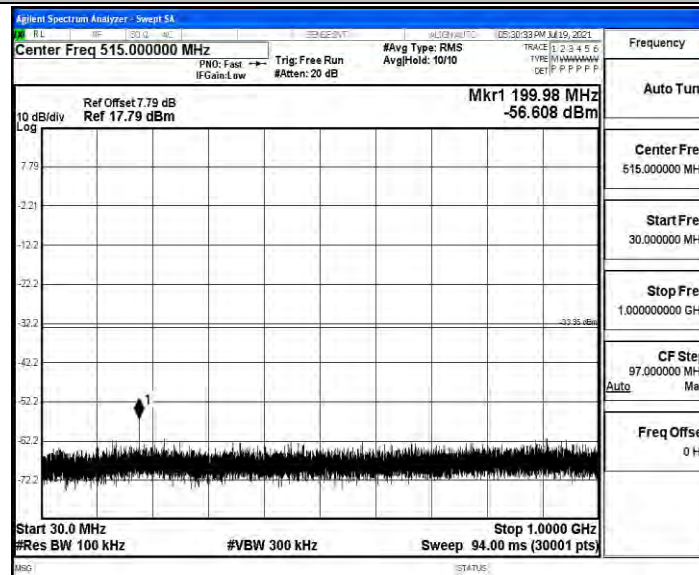
11G_Ant1_2462_30~1000



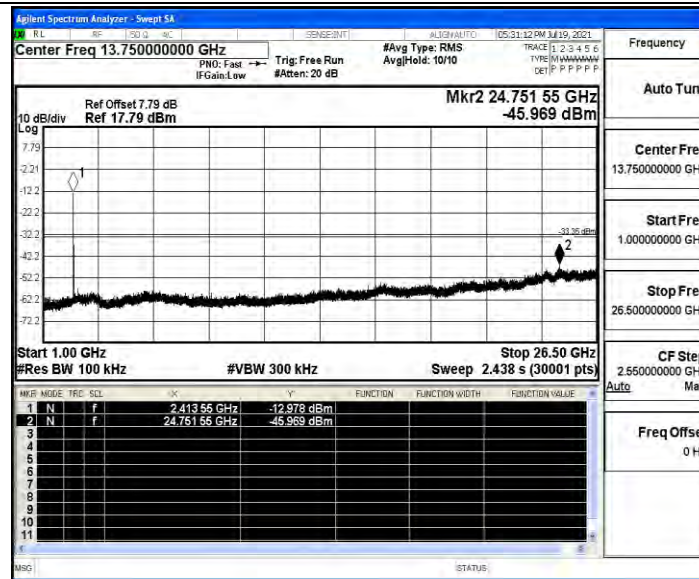
11G_Ant1_2462_1000~26500



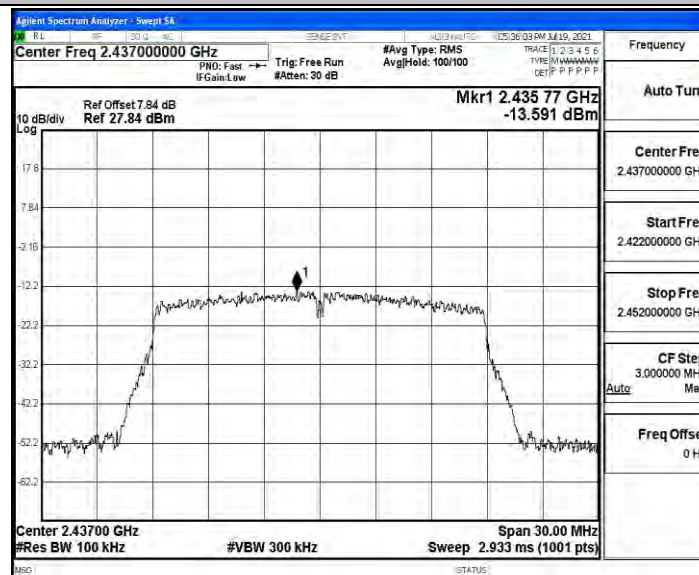
11N20SISO_Ant1_2412_0~Reference



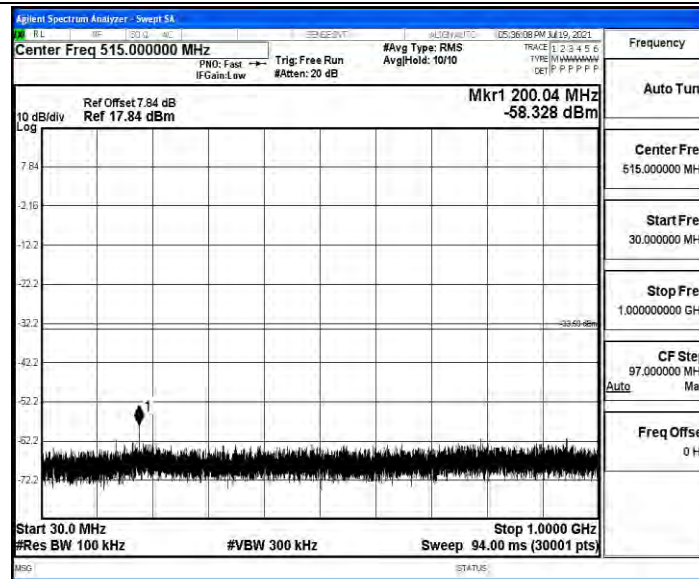
11N20SISO_Ant1_2412_30~1000



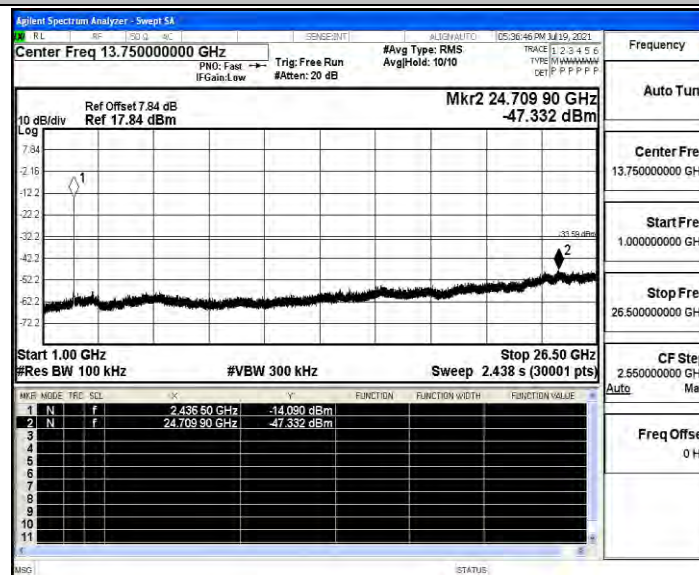
11N20SISO_Ant1_2412_1000~26500



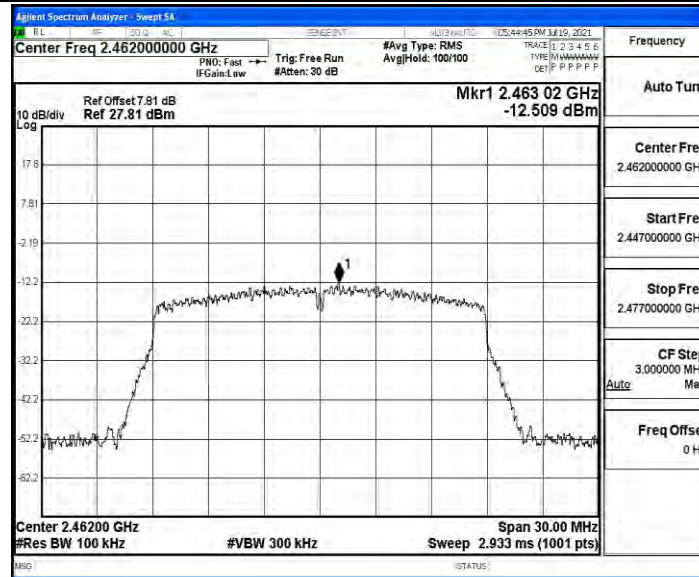
11N20SISO_Ant1_2437_0~Reference



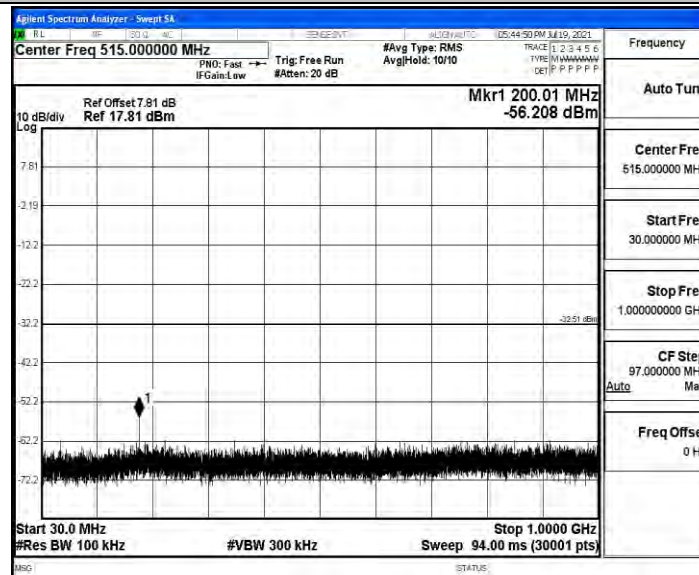
11N20SISO_Ant1_2437_30~1000



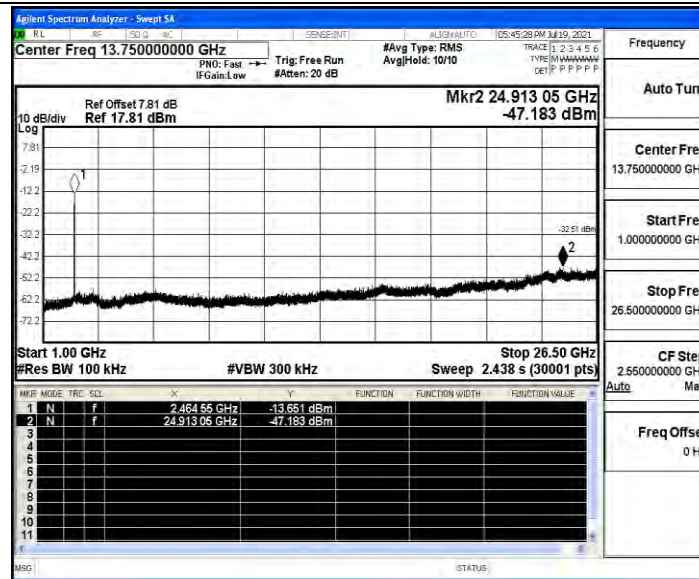
11N20SISO_Ant1_2437_1000~26500



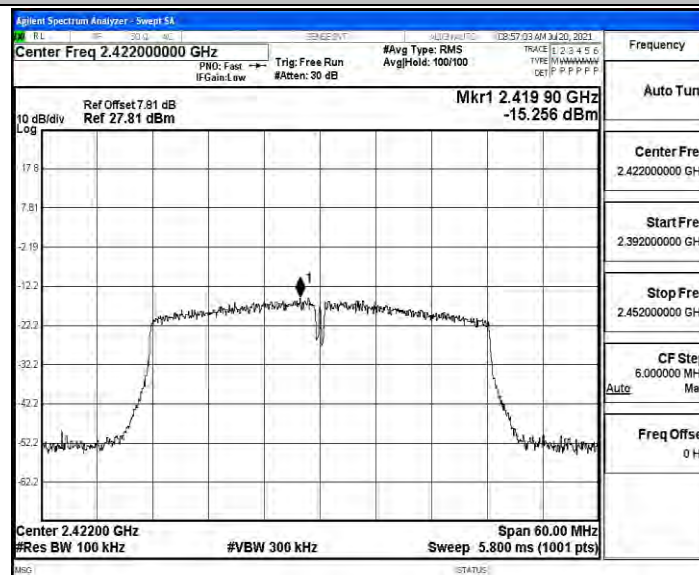
11N20SISO_Ant1_2462_0~Reference



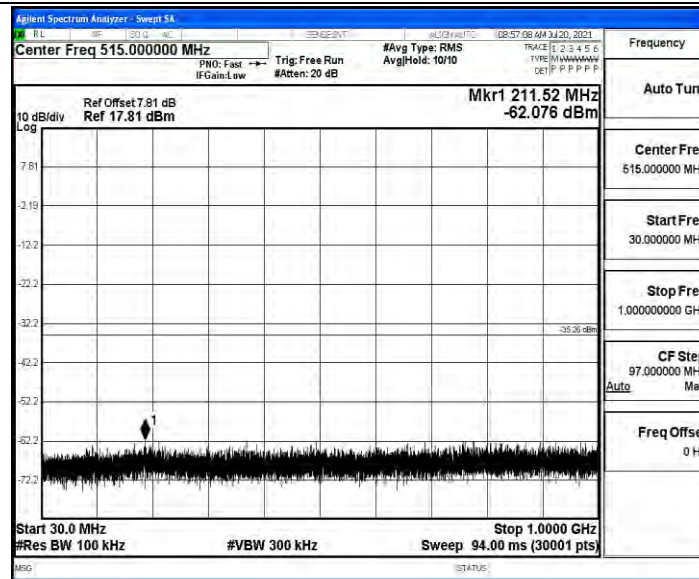
11N20SISO_Ant1_2462_30~1000



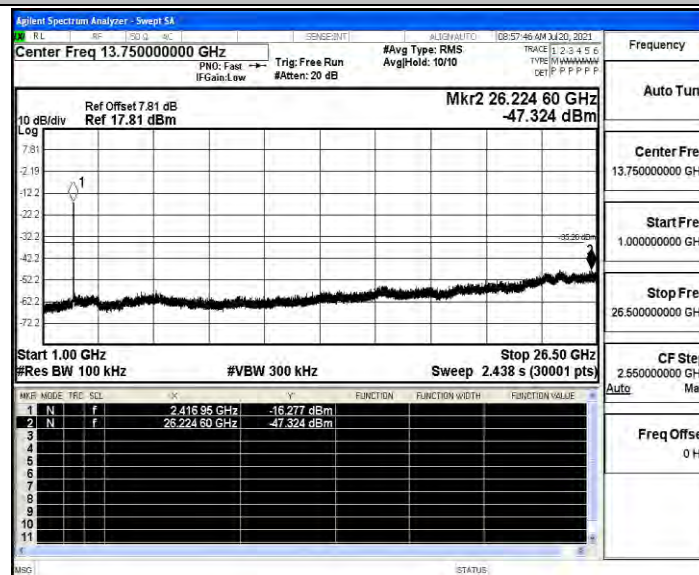
11N20SISO_Ant1_2462_1000~26500



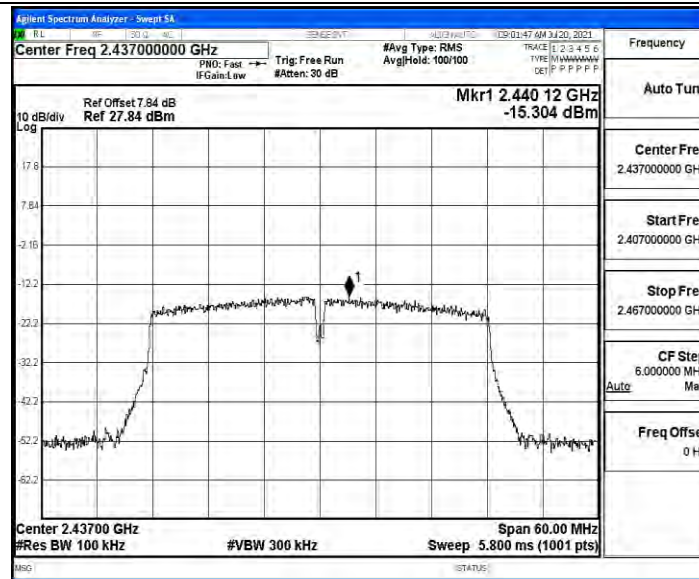
11N40SISO_Ant1_2422_0~Reference



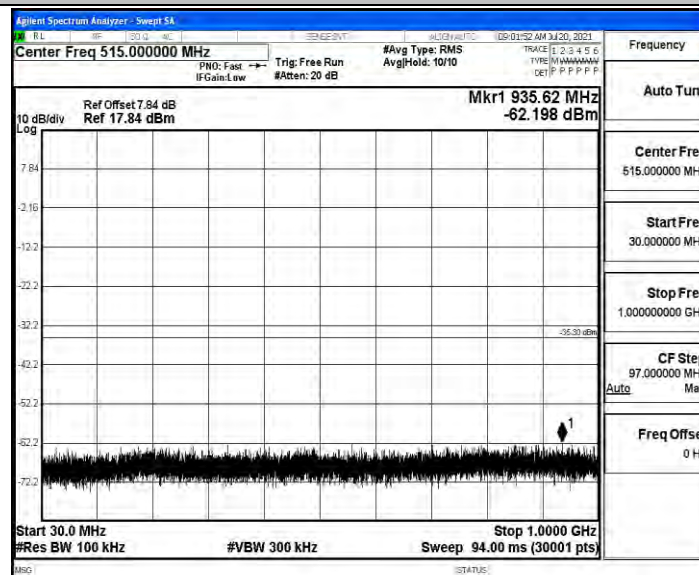
11N40SISO_Ant1_2422_30~1000



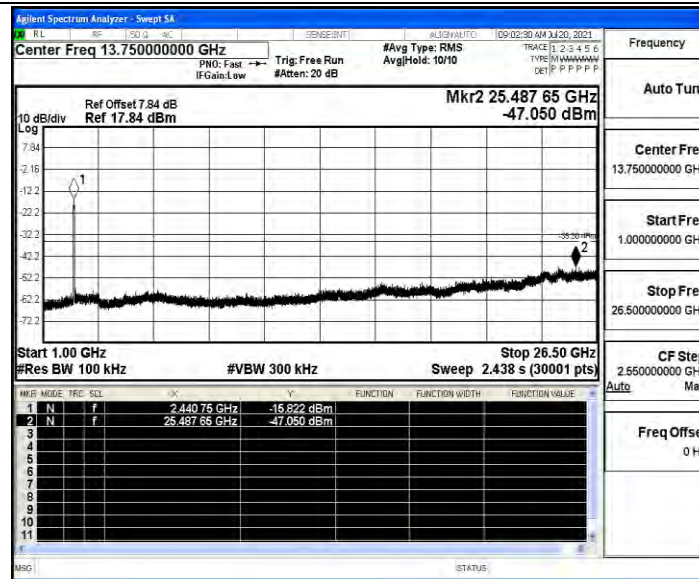
11N40SISO_Ant1_2422_1000~26500



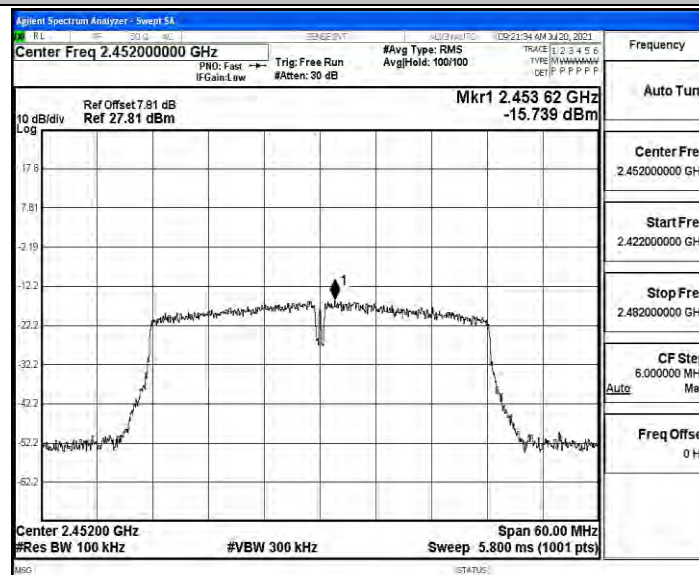
11N40SISO_Ant1_2437_0~Reference



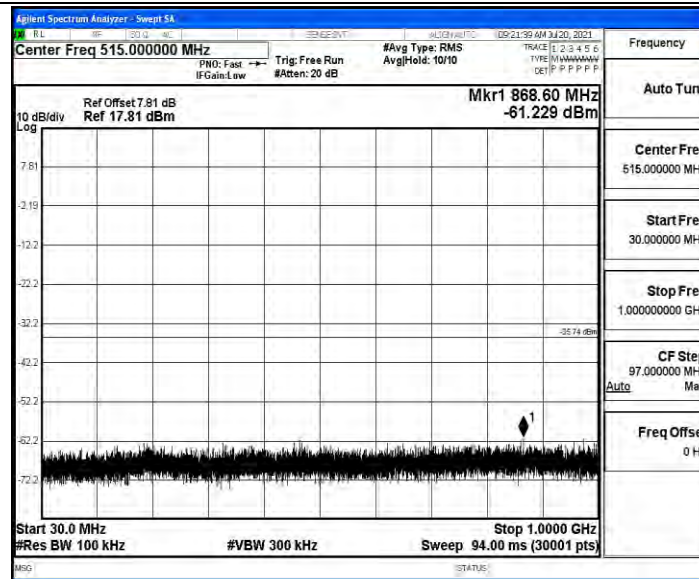
11N40SISO_Ant1_2437_30~1000



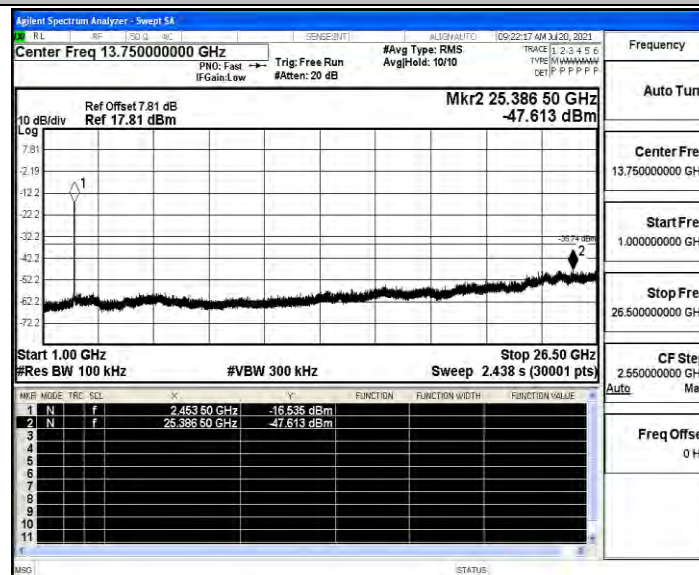
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix C.7: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.34	≤-41.20	47.89	≤54	PASS
				AV	2388.920	-48.97	≤-41.20	48.26	≤54	PASS
				AV	2390.000	-48.98	≤-41.20	48.25	≤54	PASS
				Peak	2310.000	-47	≤-21.20	50.23	≤74	PASS
				Peak	2375.920	-39.26	≤-21.20	57.97	≤74	PASS
				Peak	2390.000	-43.81	≤-21.20	53.42	≤74	PASS
		High	2462	AV	2483.500	-48.5	≤-41.20	48.73	≤54	PASS
				AV	2499.510	-48.31	≤-41.20	48.92	≤54	PASS
				AV	2500.000	-48.34	≤-41.20	48.89	≤54	PASS
				Peak	2483.500	-43.16	≤-21.20	54.07	≤74	PASS
				Peak	2483.560	-39.13	≤-21.20	58.10	≤74	PASS
				Peak	2500.000	-41.82	≤-21.20	55.41	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.31	≤-41.20	47.92	≤54	PASS
				AV	2389.830	-48.89	≤-41.20	48.34	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	48.33	≤54	PASS
				Peak	2310.000	-46.81	≤-21.20	50.42	≤74	PASS
				Peak	2318.070	-39.65	≤-21.20	57.58	≤74	PASS
				Peak	2390.000	-45.17	≤-21.20	52.06	≤74	PASS
		High	2462	AV	2483.500	-48.44	≤-41.20	48.79	≤54	PASS
				AV	2493.240	-48.28	≤-41.20	48.95	≤54	PASS
				AV	2500.000	-48.31	≤-41.20	48.92	≤54	PASS
				Peak	2483.500	-42.74	≤-21.20	54.49	≤74	PASS
				Peak	2488.290	-39.74	≤-21.20	57.49	≤74	PASS
				Peak	2500.000	-42.26	≤-21.20	54.97	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.31	≤-41.20	47.92	≤54	PASS
				AV	2389.960	-48.93	≤-41.20	48.30	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	48.30	≤54	PASS
				Peak	2310.000	-43.71	≤-21.20	53.52	≤74	PASS
				Peak	2318.460	-39.94	≤-21.20	57.29	≤74	PASS
				Peak	2390.000	-44.72	≤-21.20	52.51	≤74	PASS
		High	2462	AV	2483.500	-48.43	≤-41.20	48.80	≤54	PASS
				AV	2497.420	-48.29	≤-41.20	48.94	≤54	PASS
				AV	2500.000	-48.31	≤-41.20	48.92	≤54	PASS
				Peak	2483.500	-44.58	≤-21.20	52.65	≤74	PASS
				Peak	2484.770	-39.66	≤-21.20	57.57	≤74	PASS
				Peak	2500.000	-43.63	≤-21.20	53.60	≤74	PASS
11N40SIS	Ant1	Low	2422	AV	2310.000	-49.46	≤-41.20	47.77	≤54	PASS



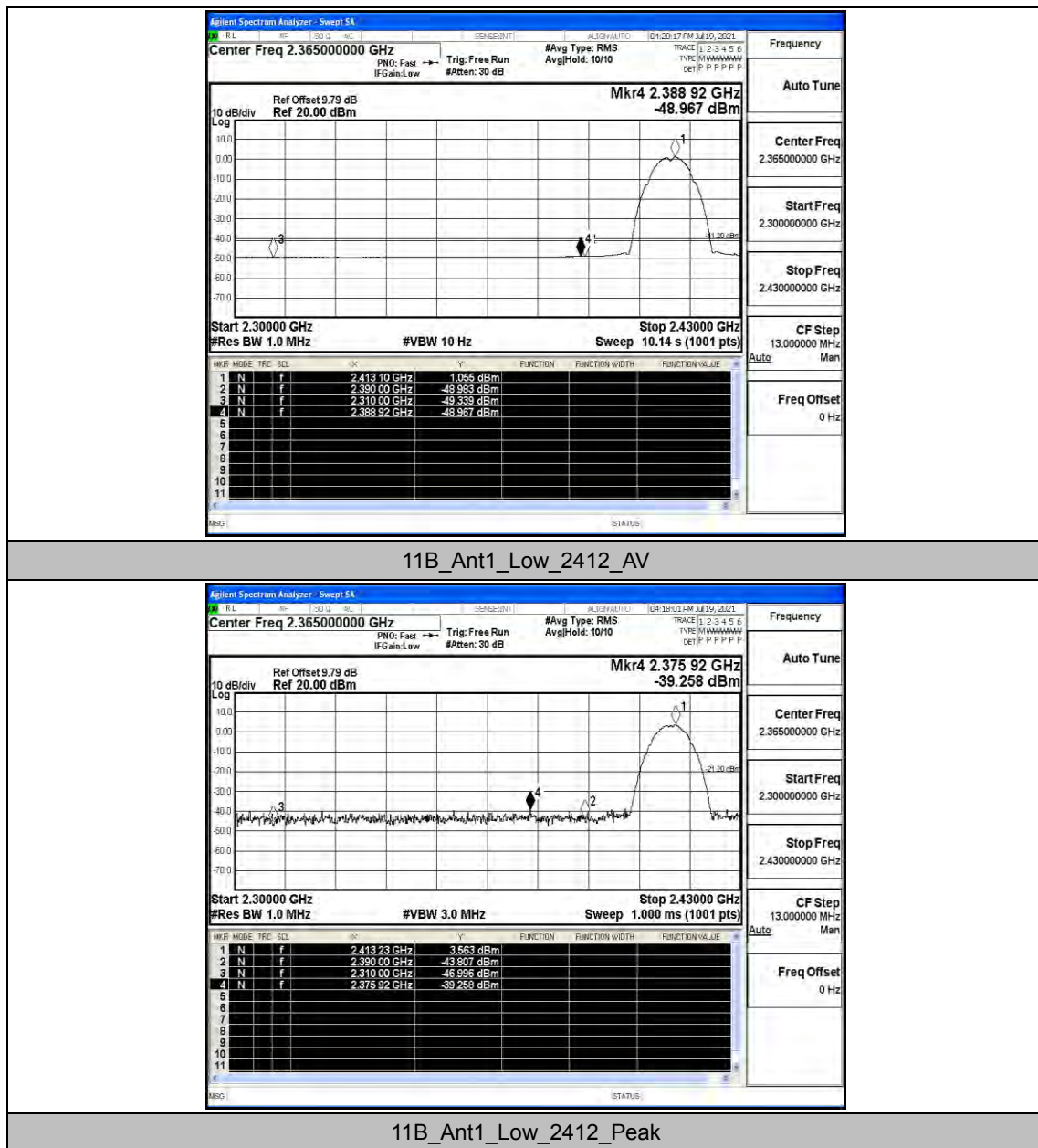
O				AV	2389.960	-49.03	≤ -41.20	48.20	≤ 54	PASS
				AV	2390.000	-49.03	≤ -41.20	48.20	≤ 54	PASS
				Peak	2310.000	-44.06	≤ -21.20	53.17	≤ 74	PASS
				Peak	2359.410	-39.3	≤ -21.20	57.93	≤ 74	PASS
				Peak	2390.000	-41.88	≤ -21.20	55.35	≤ 74	PASS
		High	2452	AV	2483.500	-48.42	≤ -41.20	48.81	≤ 54	PASS
				AV	2488.070	-48.35	≤ -41.20	48.88	≤ 54	PASS
				AV	2500.000	-48.38	≤ -41.20	48.85	≤ 54	PASS
				Peak	2483.500	-44.14	≤ -21.20	53.09	≤ 74	PASS
				Peak	2495.220	-39.74	≤ -21.20	57.49	≤ 74	PASS
				Peak	2500.000	-42.36	≤ -21.20	54.87	≤ 74	PASS

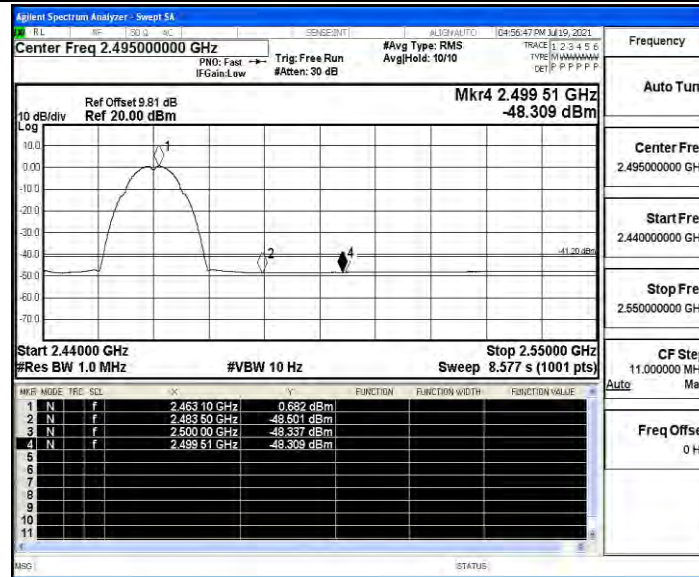
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

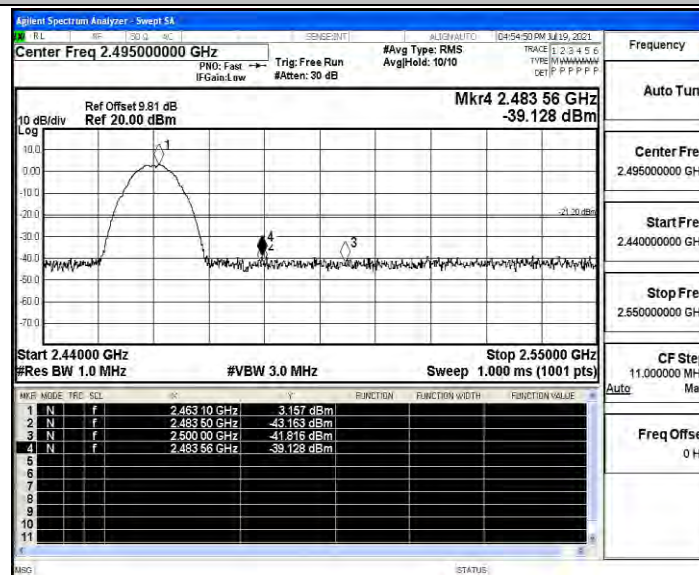


Test Graphs

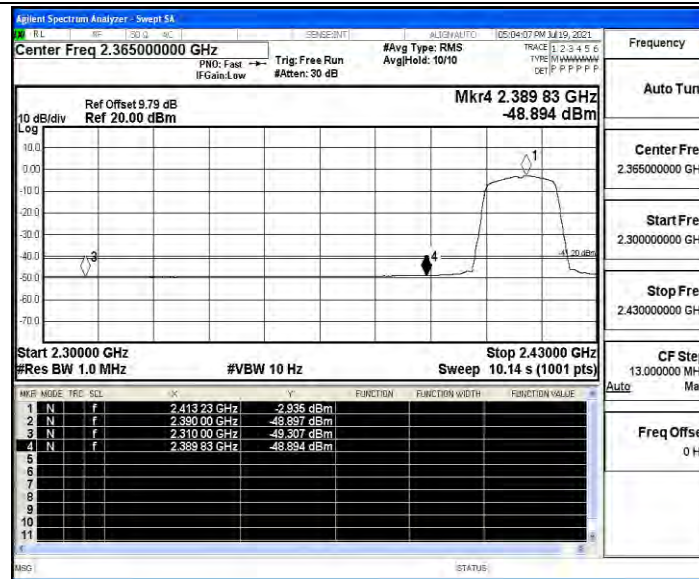




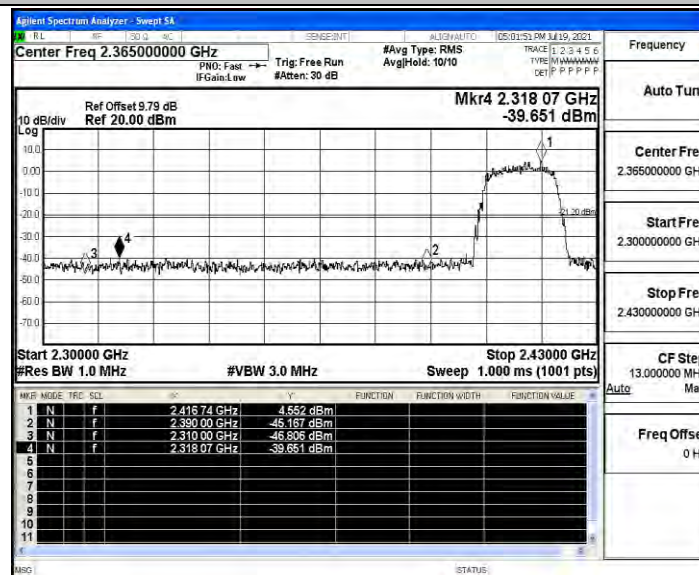
11B_Ant1_High_2462_AV



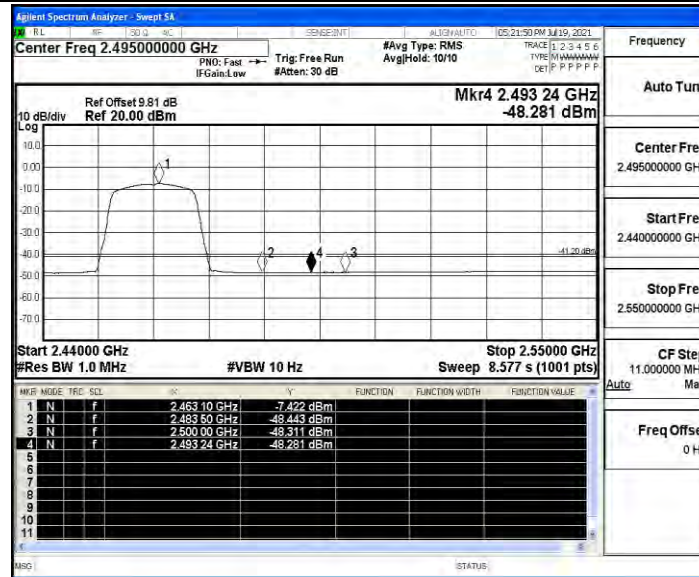
11B_Ant1_High_2462_Peak



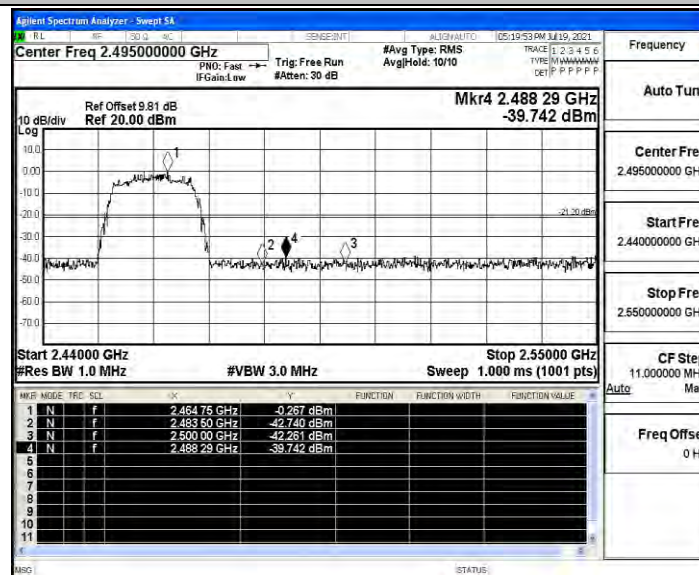
11G_Ant1_Low_2412_AV



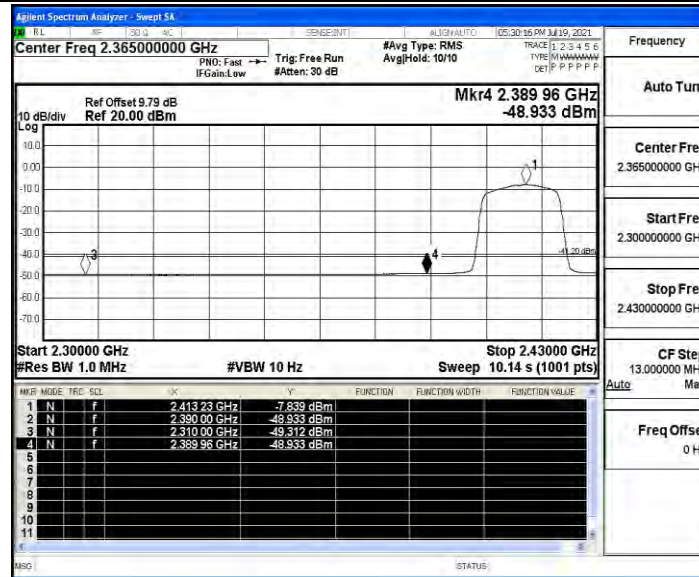
11G_Ant1_Low_2412_Peak



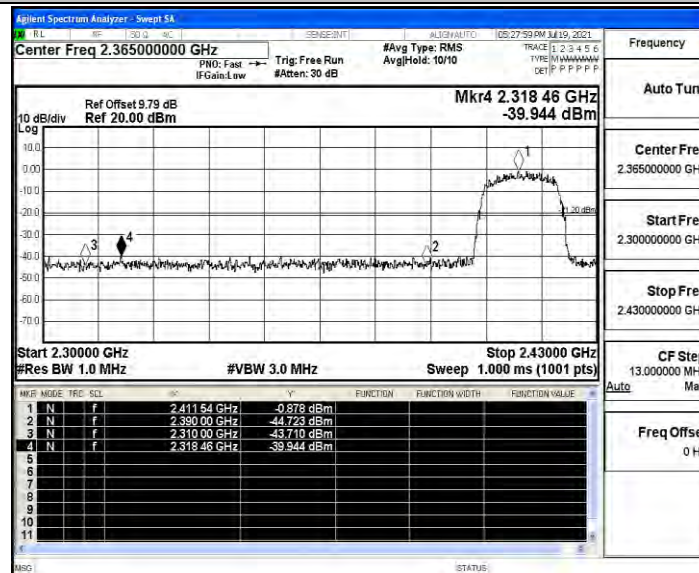
11G_Ant1_High_2462_AV



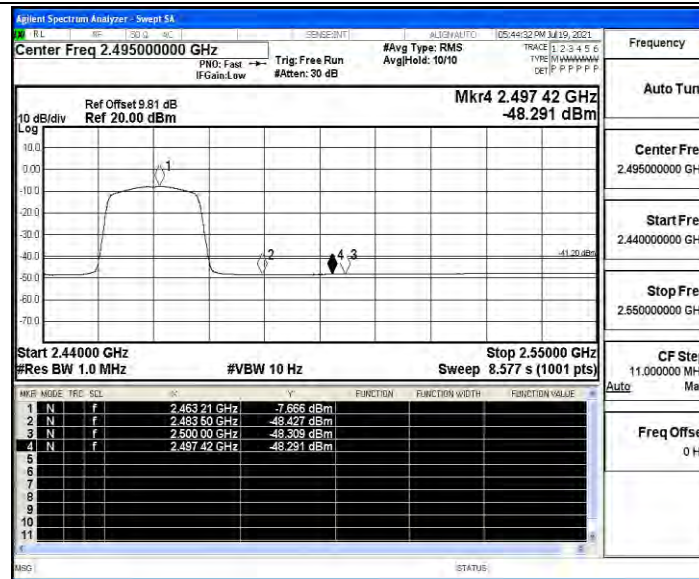
11G_Ant1_High_2462_Peak



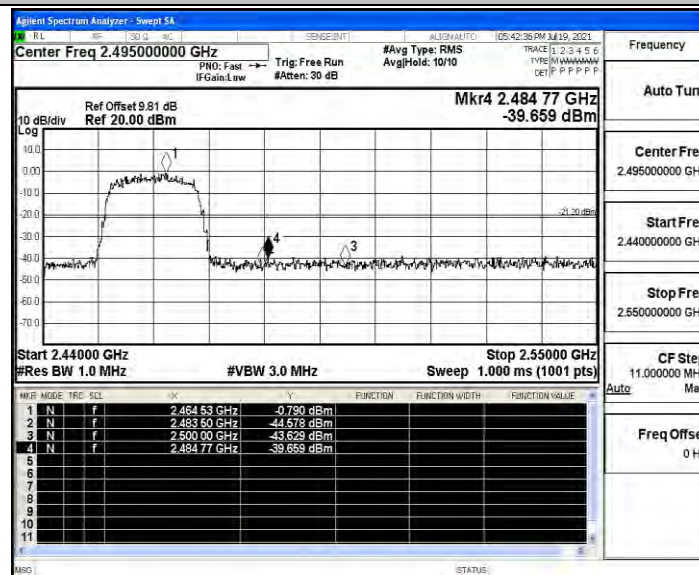
11N20SISO_Ant1_Low_2412_AV



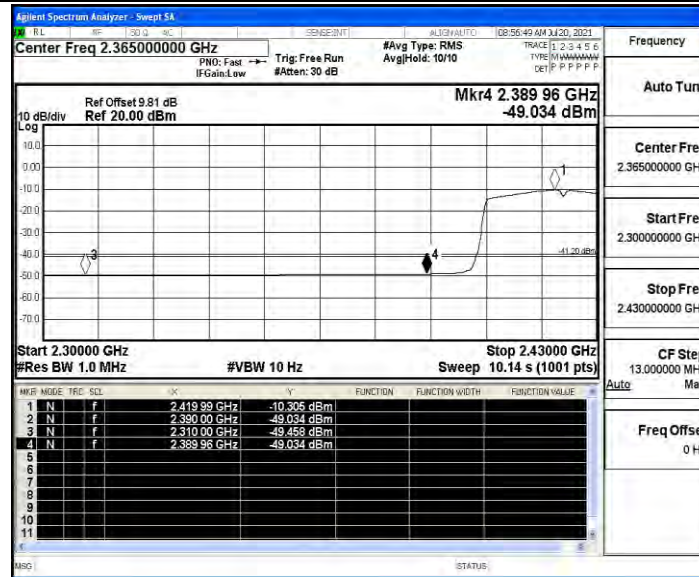
11N20SISO_Ant1_Low_2412_Peak



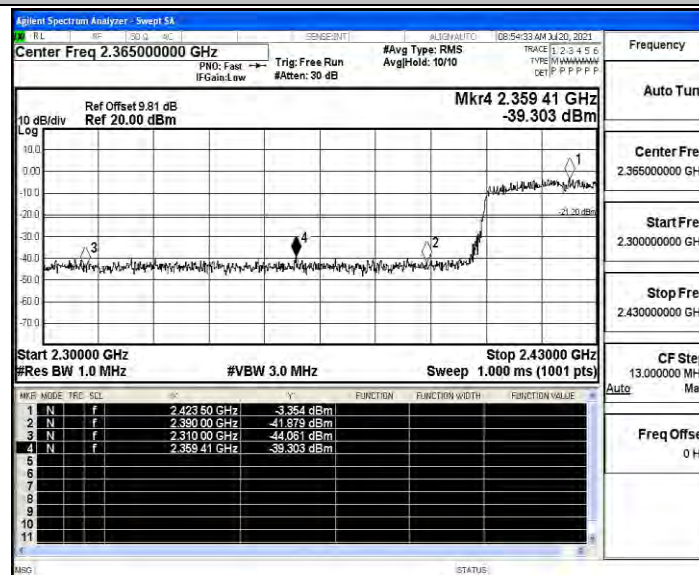
11N20SISO_Ant1_High_2462_AV



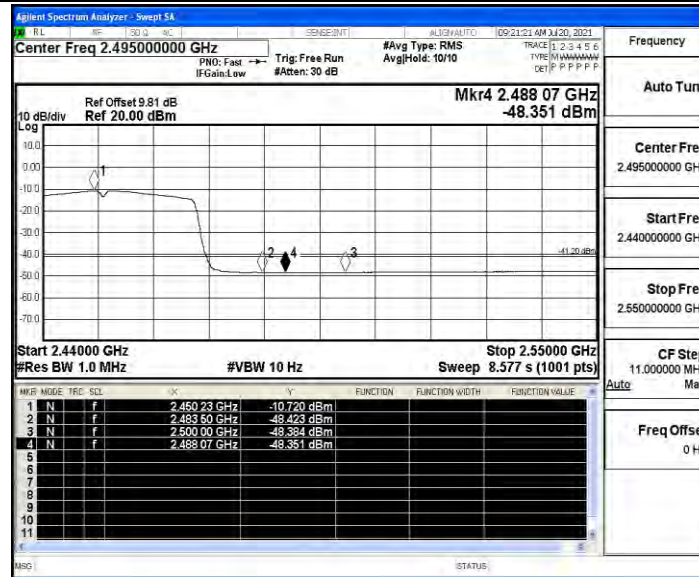
11N20SISO_Ant1_High_2462_Peak



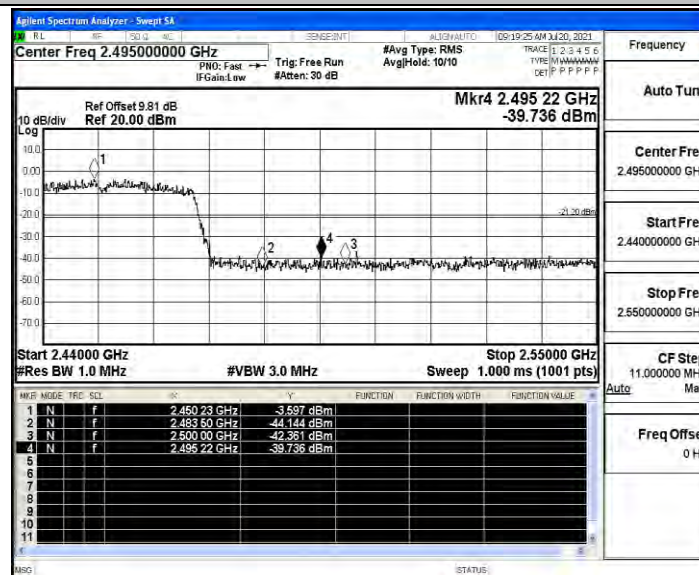
11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak