



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: UVC decontamination chamber

Trade Mark: CelerPurus, Inc.

Test Model: CP101

Environmental Conditions

Temperature:	26.0°C
Relative Humidity:	54.0%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



Appendix B.1: DTS Bandwidth

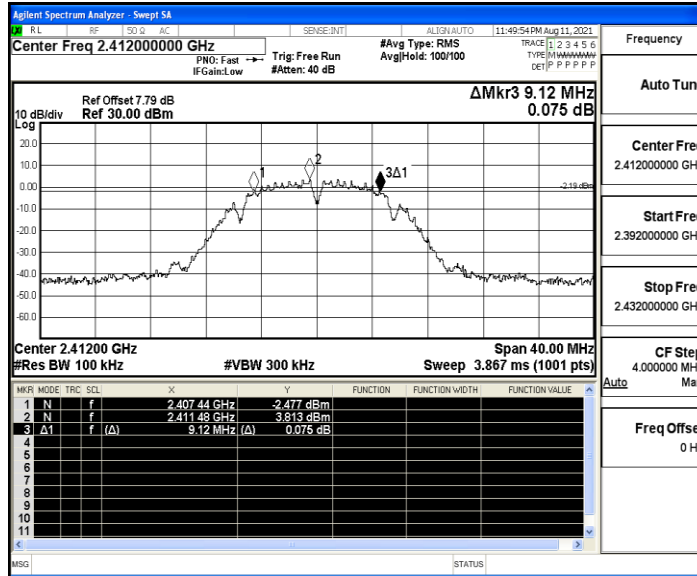
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	0.5	PASS
		2437	9.120	2432.920	2442.040	0.5	PASS
		2462	9.600	2456.960	2466.560	0.5	PASS
11G	Ant1	2412	15.800	2404.120	2419.920	0.5	PASS
		2437	15.200	2429.400	2444.600	0.5	PASS
		2462	15.800	2453.800	2469.600	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.240	2420.560	0.5	PASS
		2437	16.120	2429.480	2445.600	0.5	PASS
		2462	16.320	2453.200	2469.520	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.320	2439.840	0.5	PASS
		2437	34.000	2420.600	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS

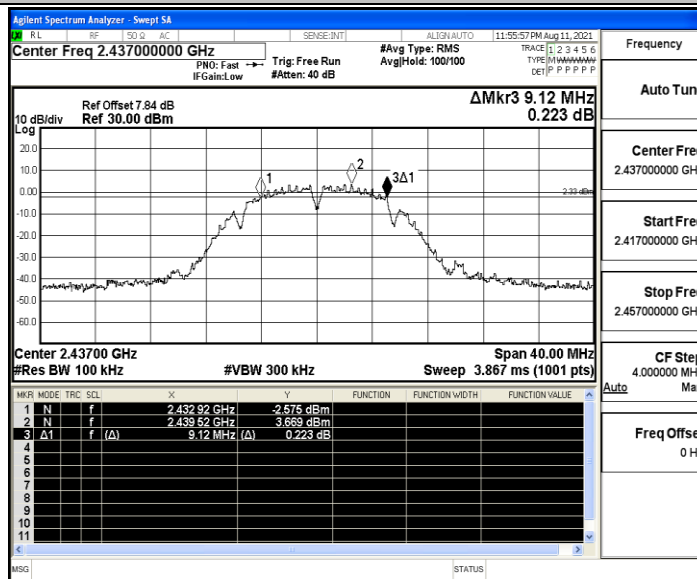


Test Graphs

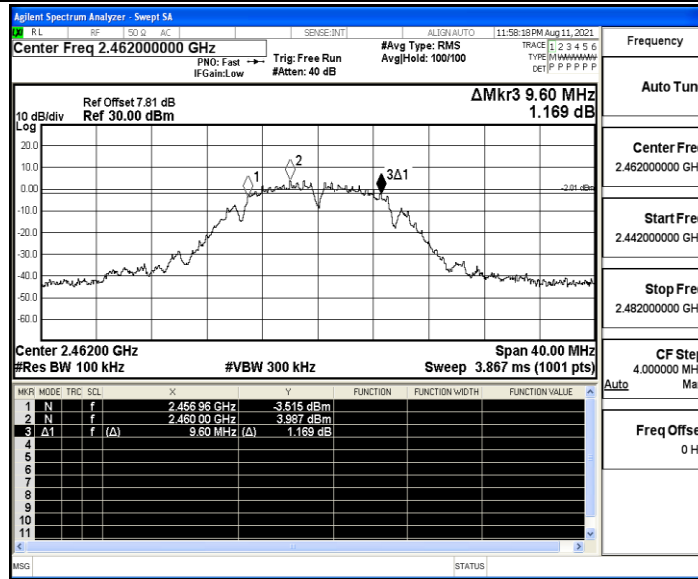
11B_Ant1_2412



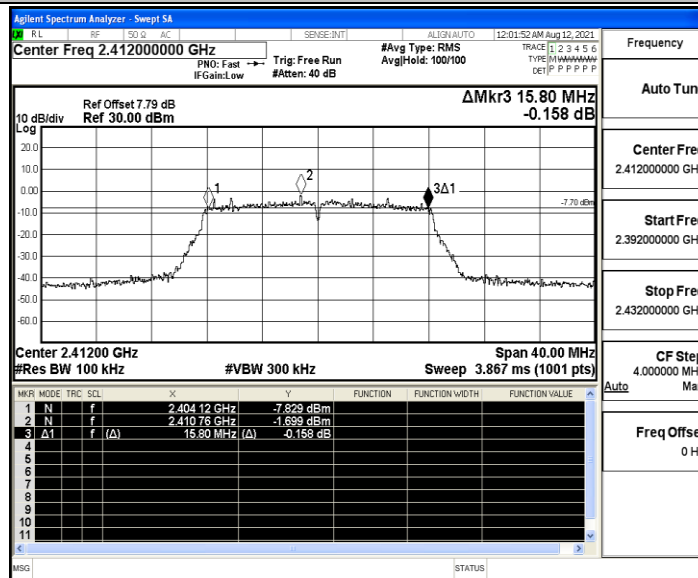
11B_Ant1_2437



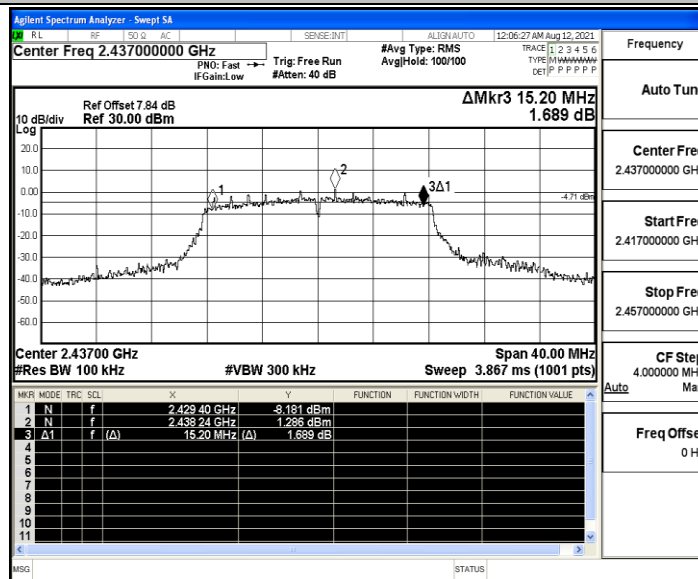
11B_Ant1_2462



11G_Ant1_2412

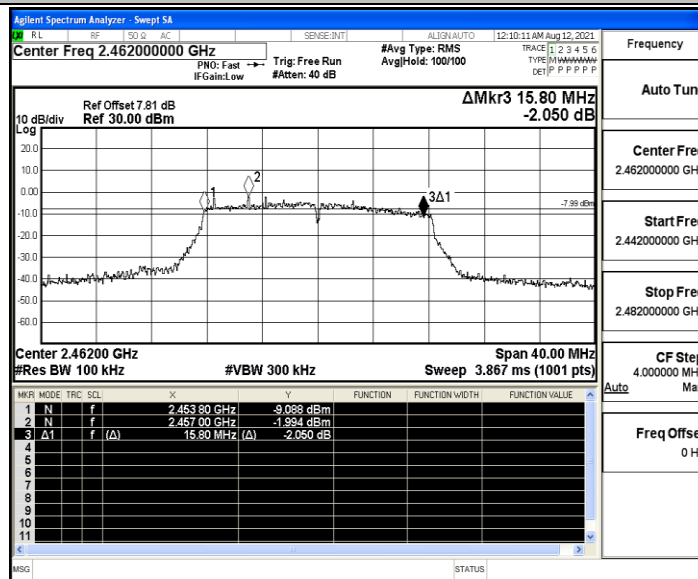


11G_Ant1_2437

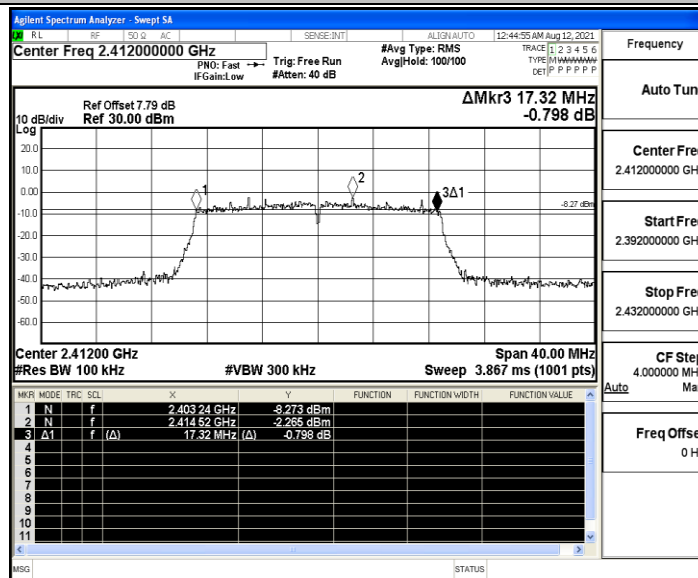




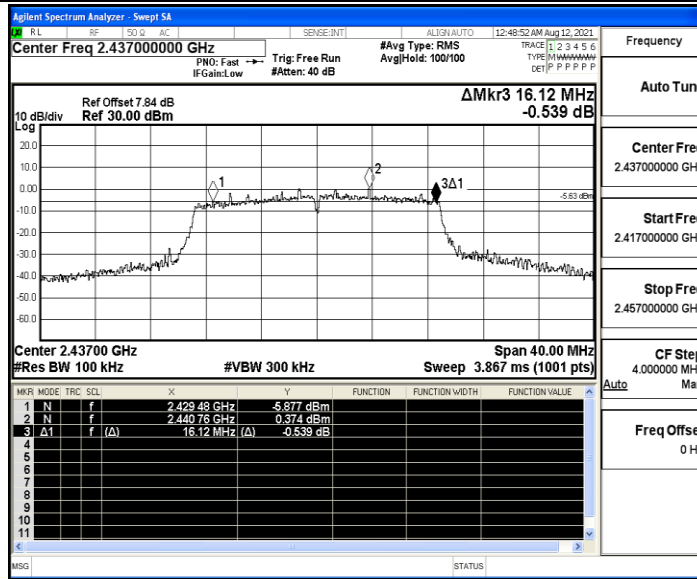
11G_Ant1_2462



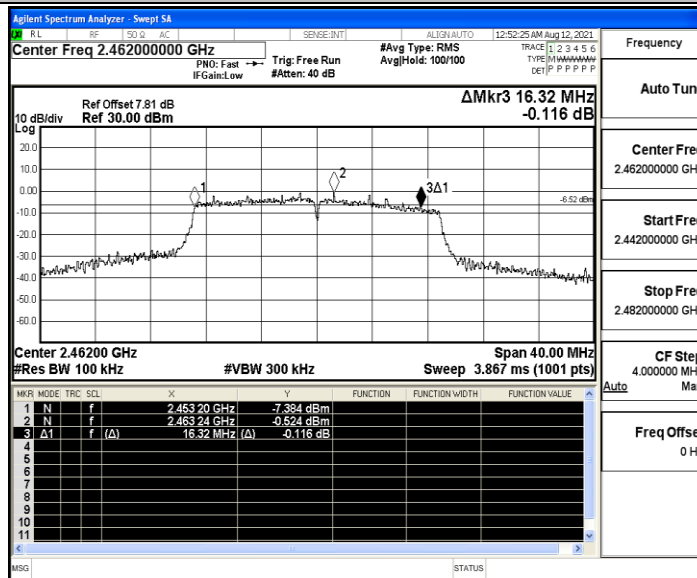
11N20SISO_Ant1_2412



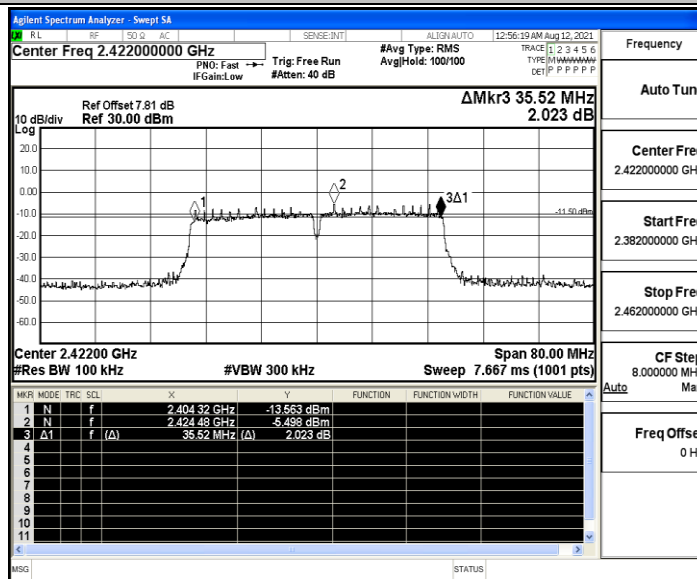
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

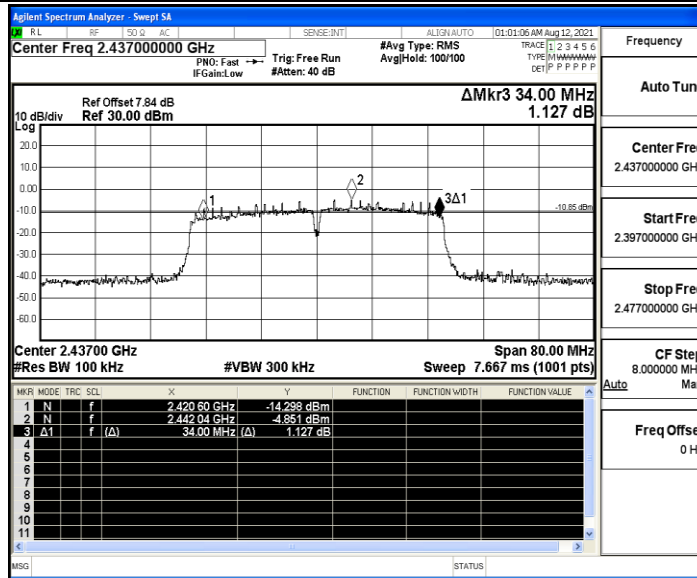


11N40SISO_Ant1_2422

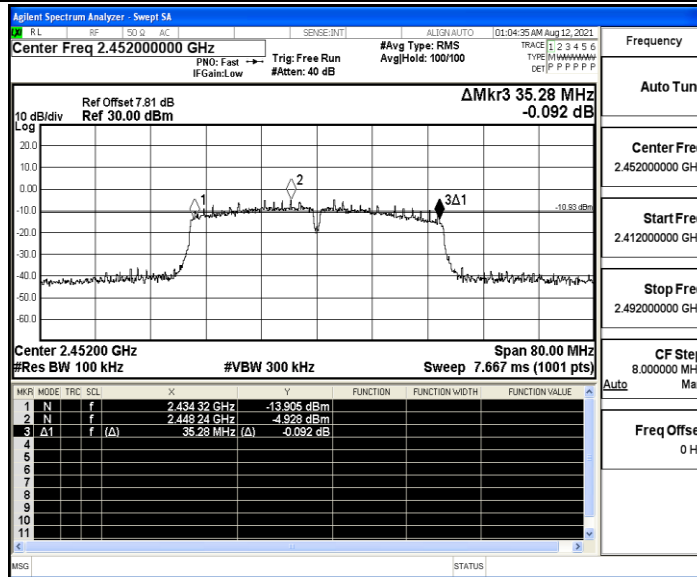




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





Appendix B.2: Maximum peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.96	≤30	PASS
		2437	15.97	≤30	PASS
		2462	15.69	≤30	PASS
11G	Ant1	2412	16.46	≤30	PASS
		2437	16.31	≤30	PASS
		2462	16.07	≤30	PASS
11N20SISO	Ant1	2412	16.30	≤30	PASS
		2437	16.24	≤30	PASS
		2462	17.70	≤30	PASS
11N40SISO	Ant1	2422	15.45	≤30	PASS
		2437	15.68	≤30	PASS
		2452	15.54	≤30	PASS



Appendix B.3: Maximum power spectral density

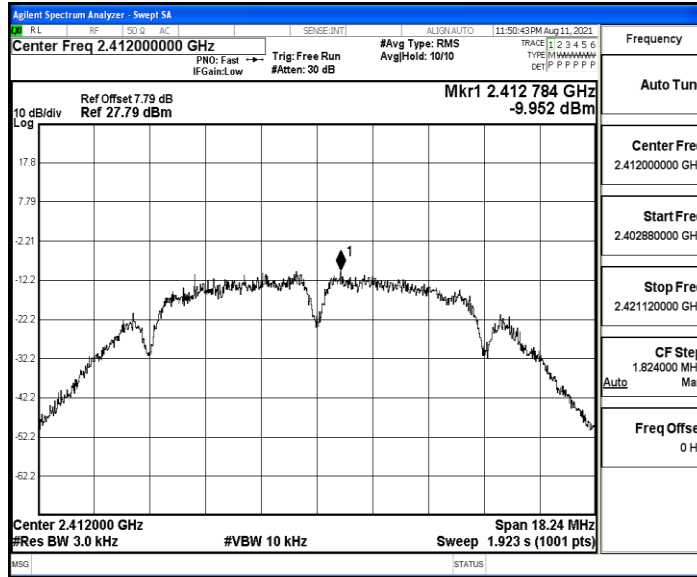
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.95	≤8	PASS
		2437	-10.2	≤8	PASS
		2462	-10.22	≤8	PASS
11G	Ant1	2412	-12.94	≤8	PASS
		2437	-15.52	≤8	PASS
		2462	-15.79	≤8	PASS
11N20SISO	Ant1	2412	-15.61	≤8	PASS
		2437	-14.66	≤8	PASS
		2462	-14.38	≤8	PASS
11N40SISO	Ant1	2422	-18.88	≤8	PASS
		2437	-18.95	≤8	PASS
		2452	-19.38	≤8	PASS

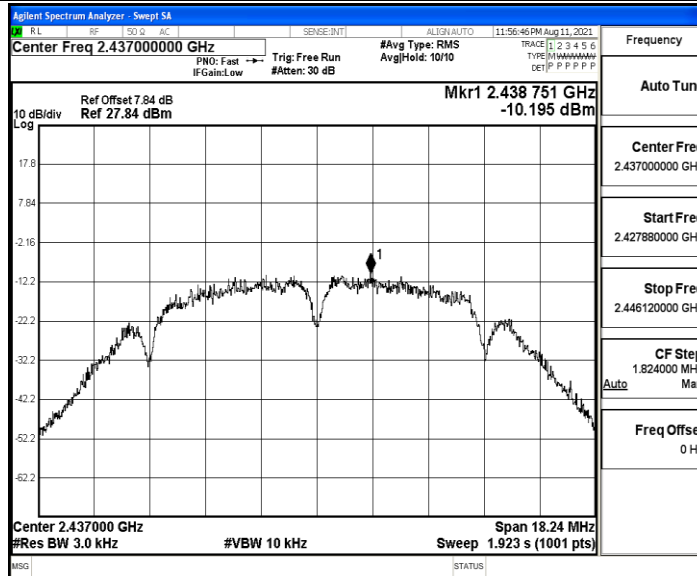


Test Graphs

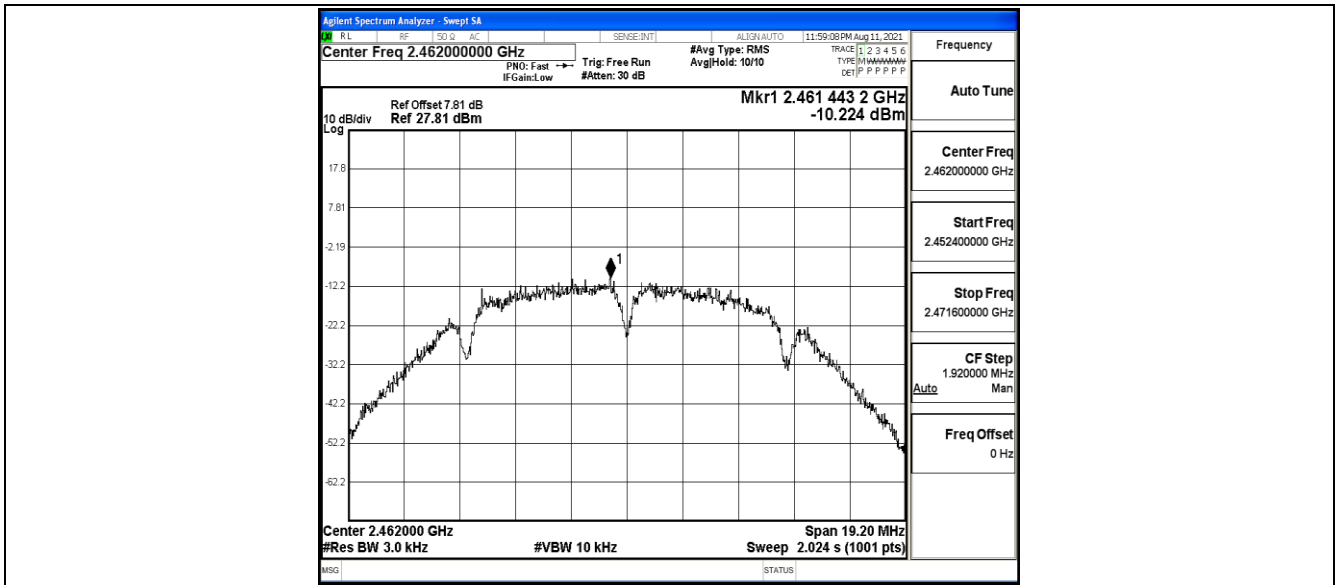
11B_Ant1_2412



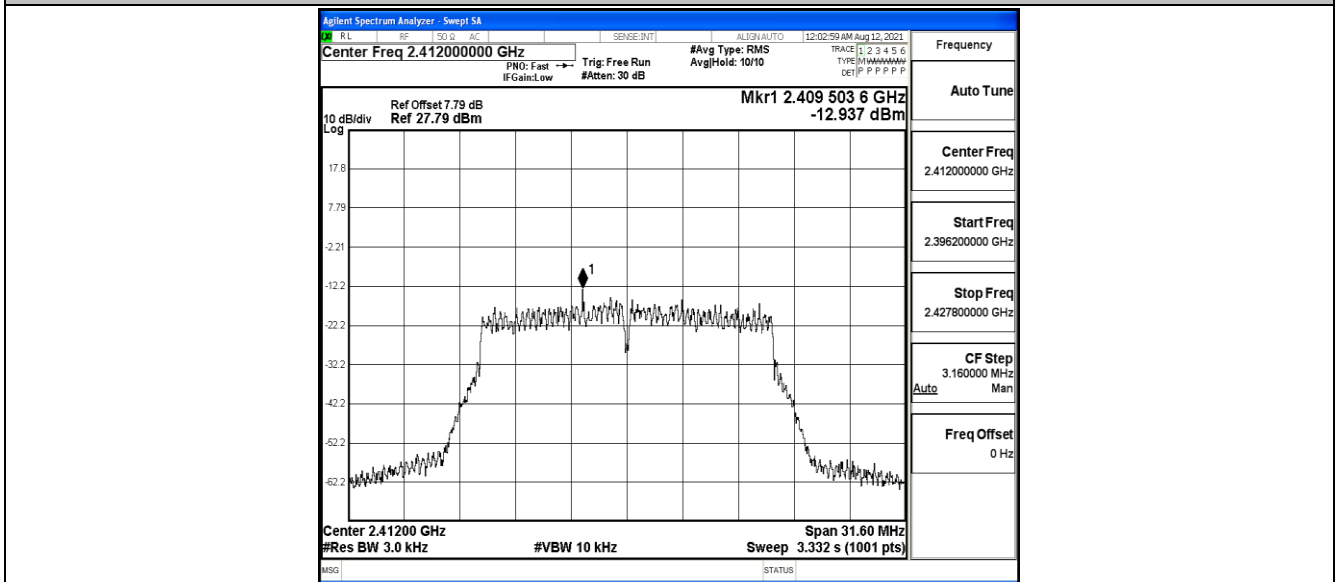
11B_Ant1_2437



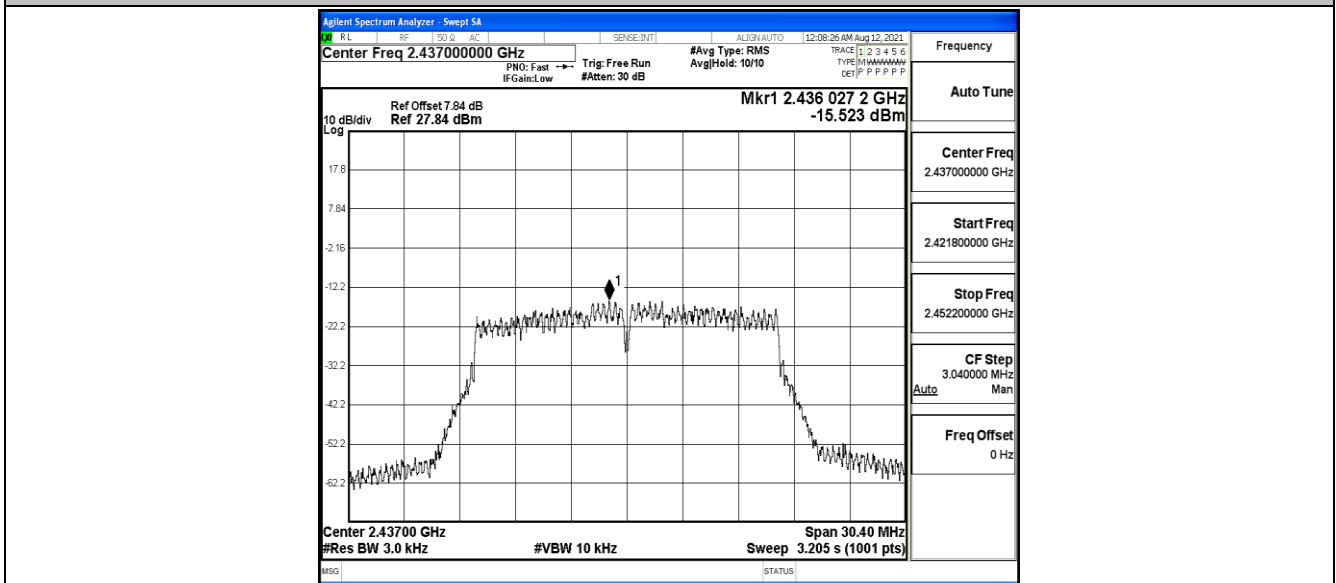
11B_Ant1_2462



11G_Ant1_2412

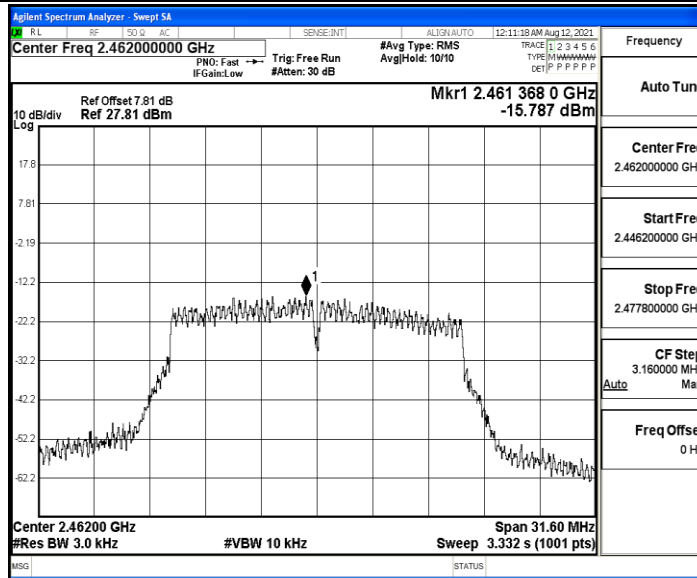


11G_Ant1_2437

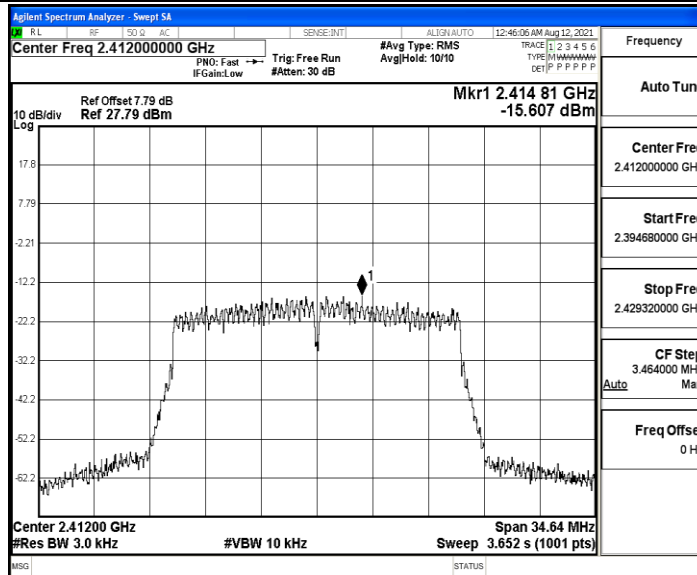




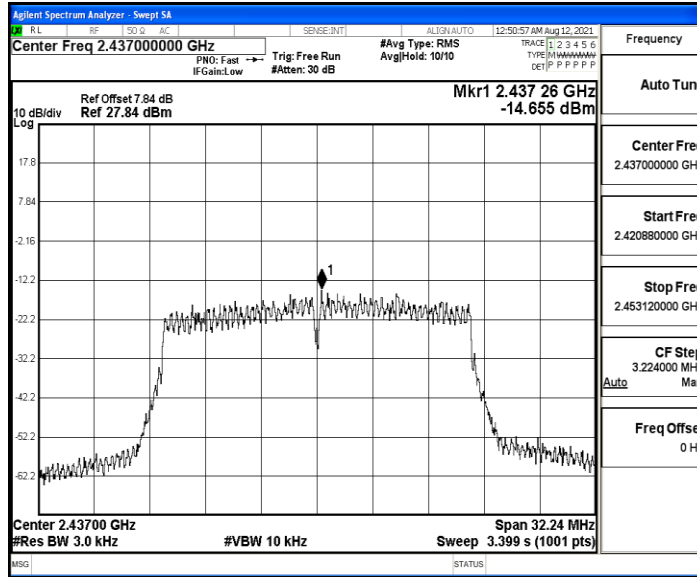
11G_Ant1_2462



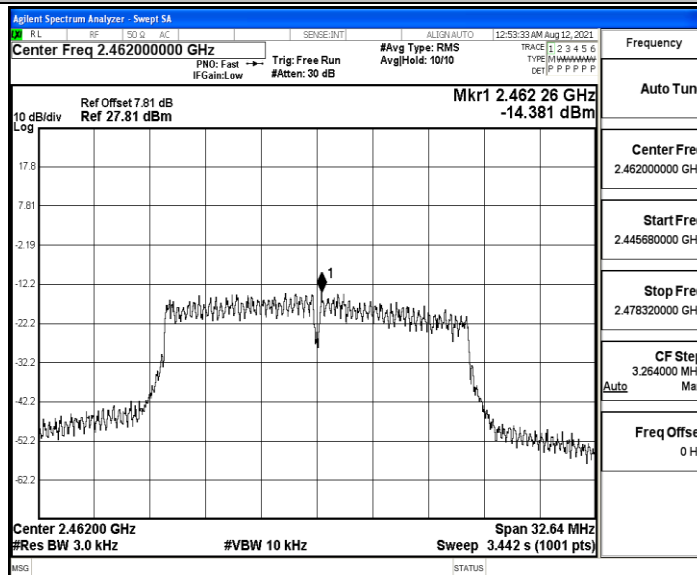
11N20SISO_Ant1_2412



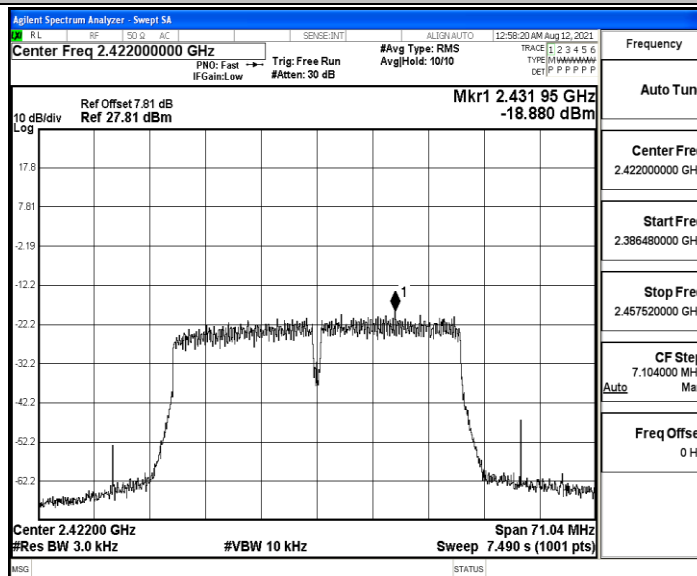
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

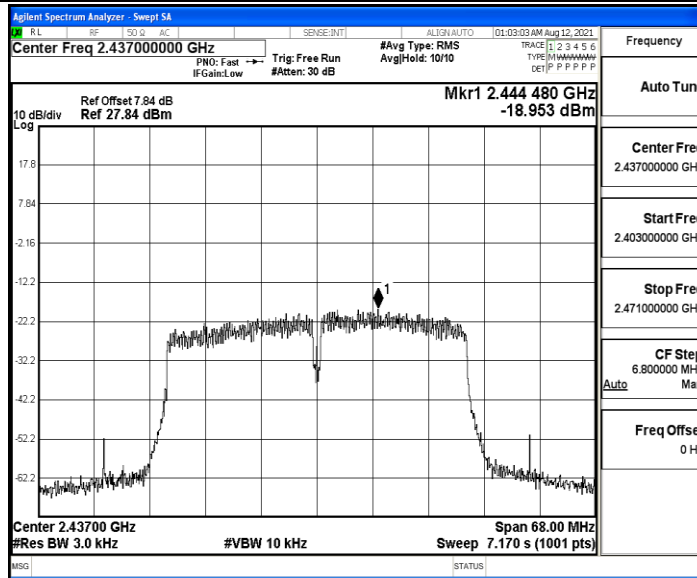


11N40SISO_Ant1_2422

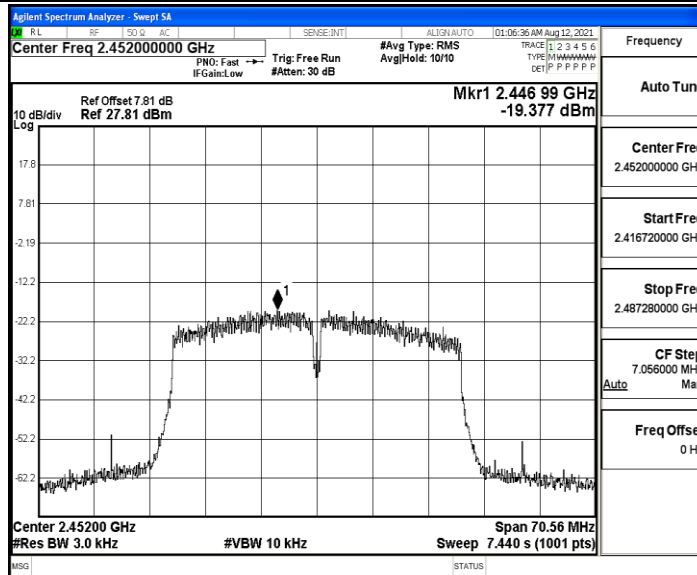




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





Appendix B.4: Band edge measurements

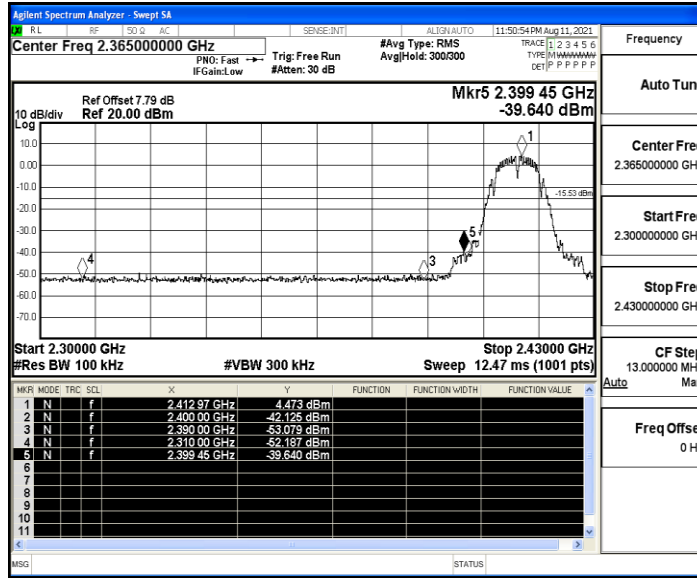
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.47	-39.64	≤-15.53	PASS
		High	2462	4.16	-47.39	≤-15.84	PASS
11G	Ant1	Low	2412	-0.80	-39.03	≤-20.8	PASS
		High	2462	-1.45	-43.93	≤-21.45	PASS
11N20SISO	Ant1	Low	2412	-1.12	-38.25	≤-21.12	PASS
		High	2462	0.35	-42.78	≤-19.66	PASS
11N40SISO	Ant1	Low	2422	-5.63	-41.67	≤-25.63	PASS
		High	2452	-4.48	-39.95	≤-24.48	PASS

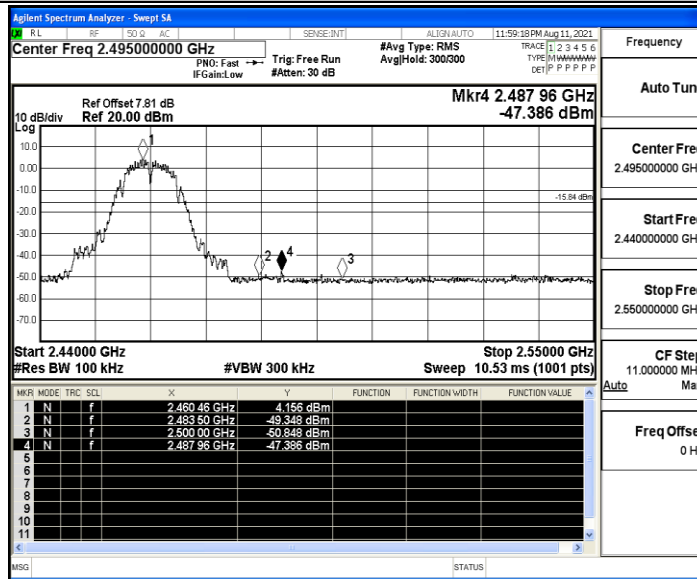


Test Graphs

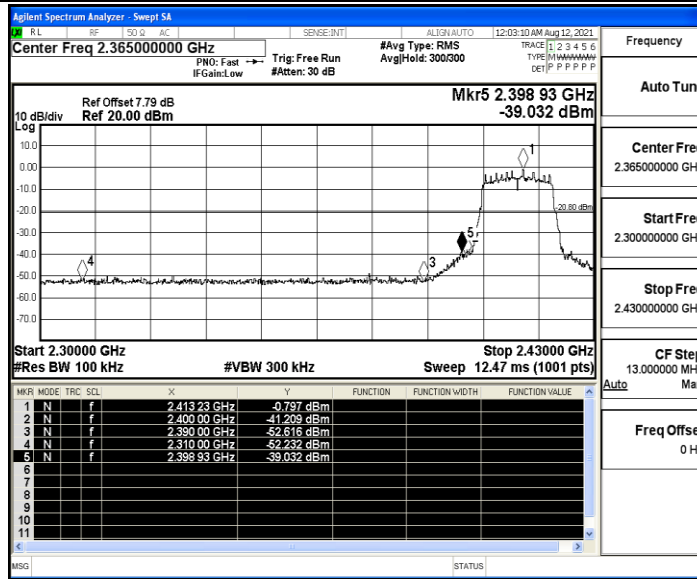
11B_Ant1_Low_2412



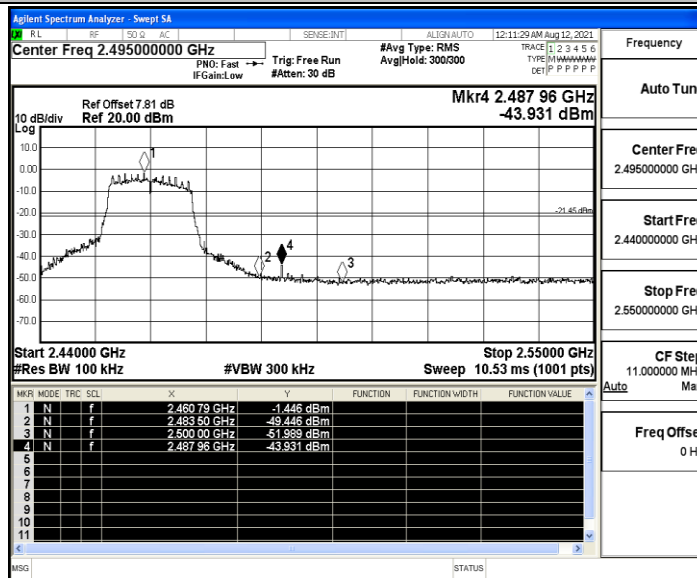
11B_Ant1_High_2462



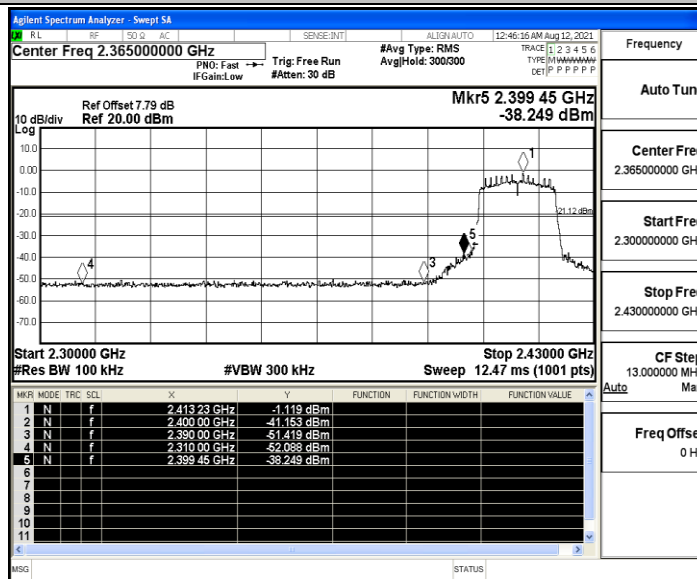
11G_Ant1_Low_2412



11G_Ant1_High_2462

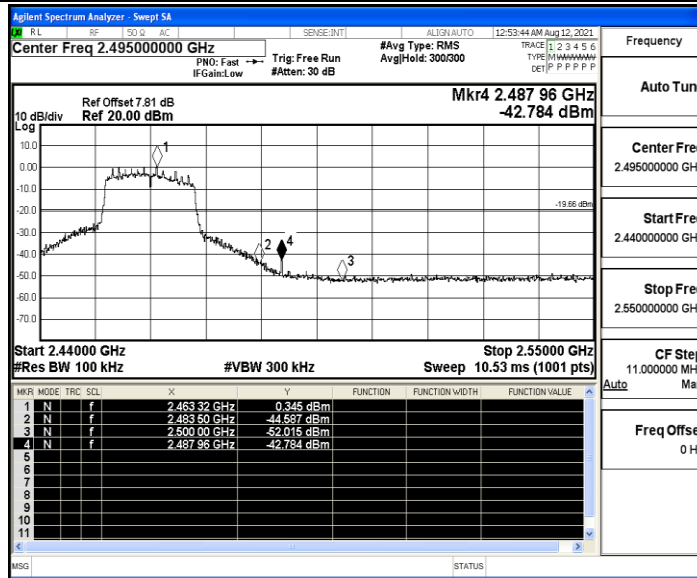


11N20SISO_Ant1_Low_2412

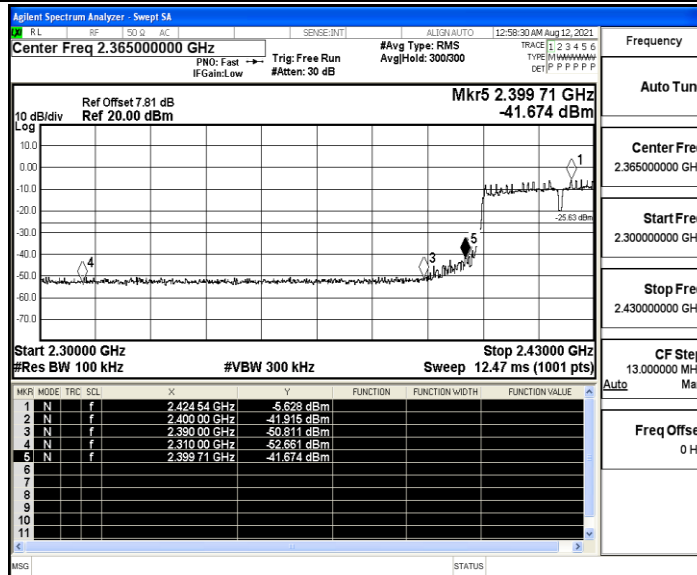




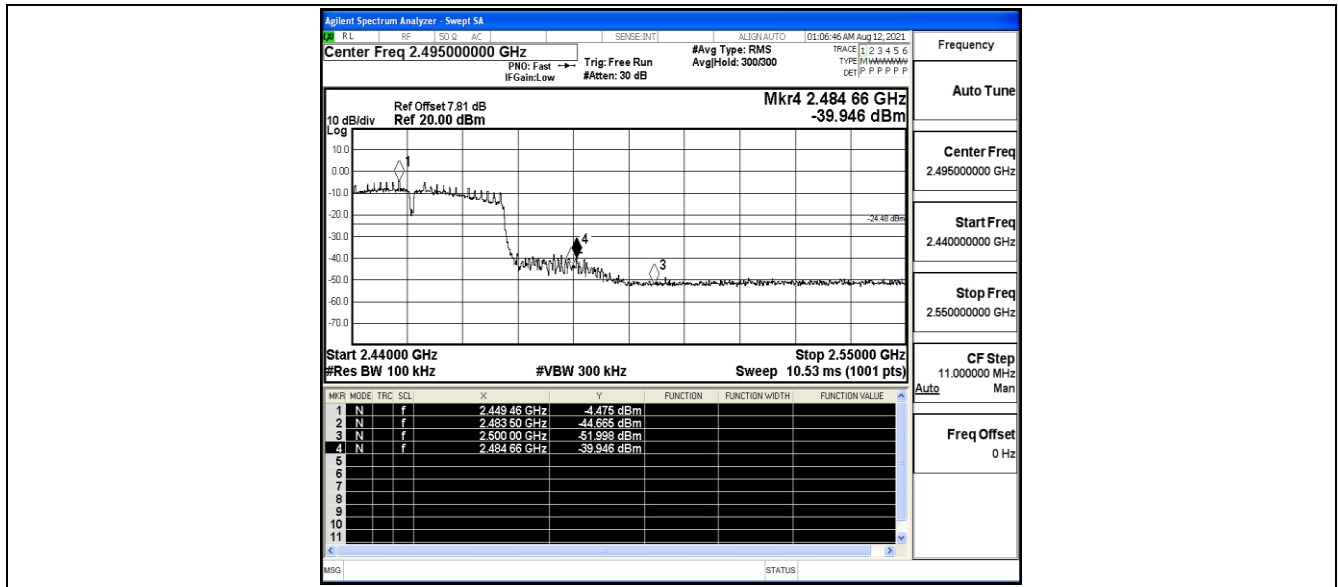
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





Appendix B.5: Conducted Spurious Emission

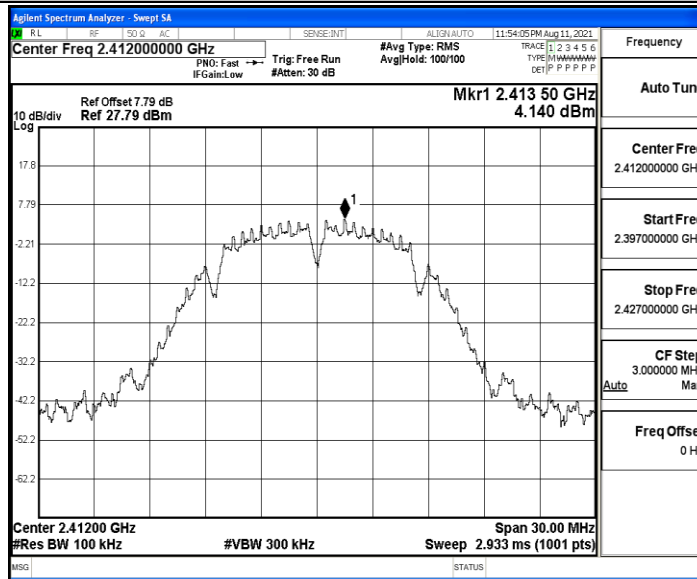
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-60.87	≤-15.86	PASS
			1000~26500	4.14	-47.64	≤-15.86	PASS
		2437	Reference	3.27	3.27	---	PASS
			30~1000	3.27	-60.48	≤-16.73	PASS
			1000~26500	3.27	-46.92	≤-16.73	PASS
		2462	Reference	3.44	3.44	---	PASS
			30~1000	3.44	-59.04	≤-16.56	PASS
			1000~26500	3.44	-47.18	≤-16.56	PASS
11G	Ant1	2412	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-58.74	≤-21.48	PASS
			1000~26500	-1.48	-47.27	≤-21.48	PASS
		2437	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-58.85	≤-20.79	PASS
			1000~26500	-0.79	-47.08	≤-20.79	PASS
		2462	Reference	-2.36	-2.36	---	PASS
			30~1000	-2.36	-58.79	≤-22.36	PASS
			1000~26500	-2.36	-47.76	≤-22.36	PASS
11N20SISO	Ant1	2412	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-59.56	≤-21.75	PASS
			1000~26500	-1.75	-47.03	≤-21.75	PASS
		2437	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-57.54	≤-20.78	PASS
			1000~26500	-0.78	-46.33	≤-20.78	PASS
		2462	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-58.63	≤-19.66	PASS
			1000~26500	0.34	-47.68	≤-19.66	PASS
11N40SISO	Ant1	2422	Reference	-5.49	-5.49	---	PASS
			30~1000	-5.49	-59.19	≤-25.49	PASS
			1000~26500	-5.49	-47.4	≤-25.49	PASS
		2437	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-58.98	≤-25.07	PASS
			1000~26500	-5.07	-47.94	≤-25.07	PASS
		2452	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-58.74	≤-25.12	PASS
			1000~26500	-5.12	-47.58	≤-25.12	PASS

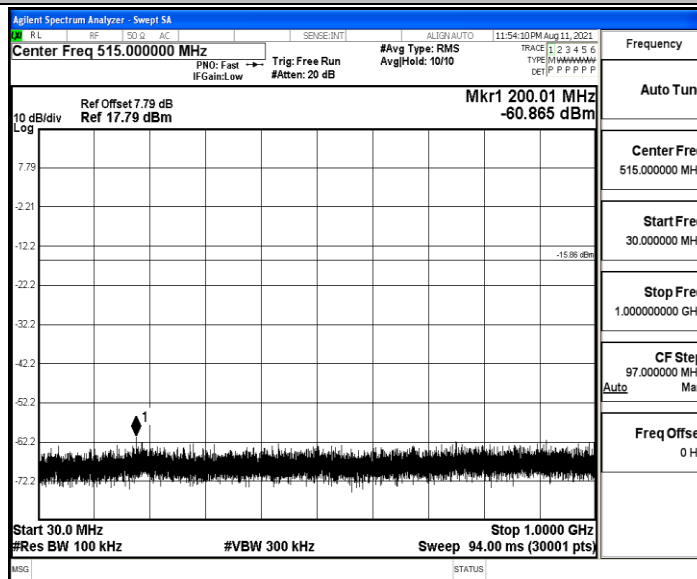


Test Graphs

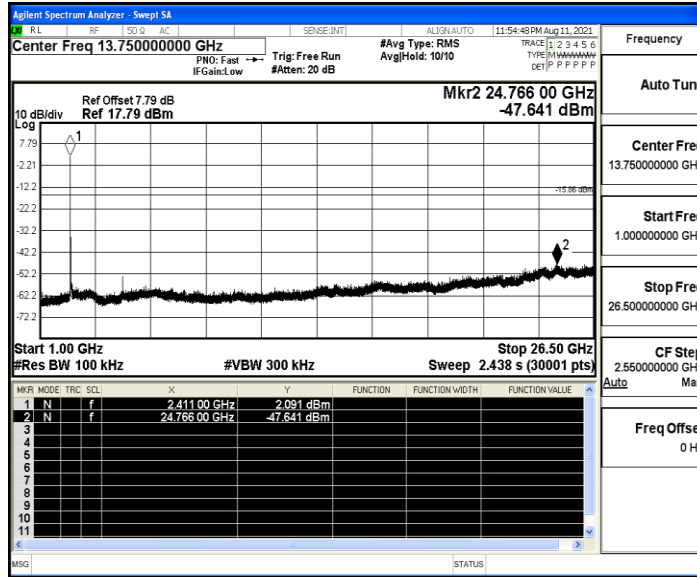
11B_Ant1_2412_0~Reference



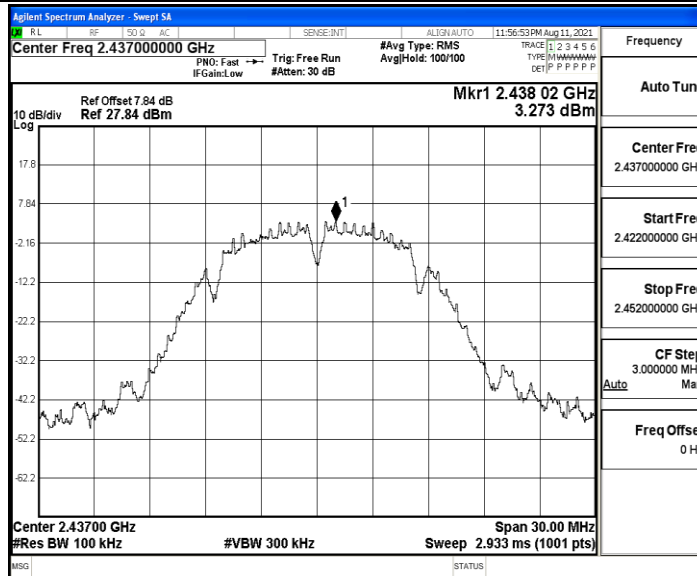
11B_Ant1_2412_30~1000



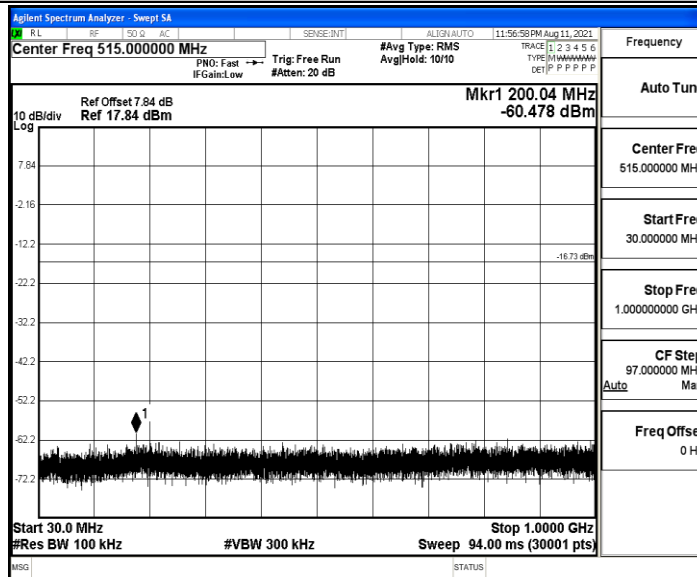
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0-Reference

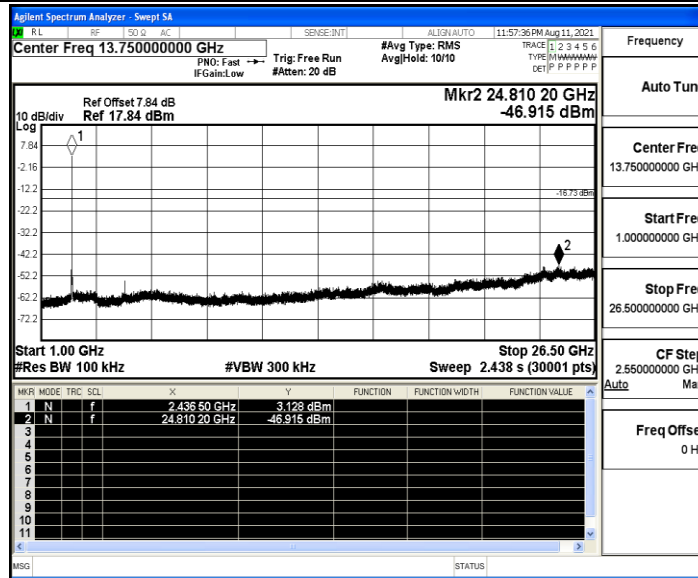


11B_Ant1_2437_30-1000

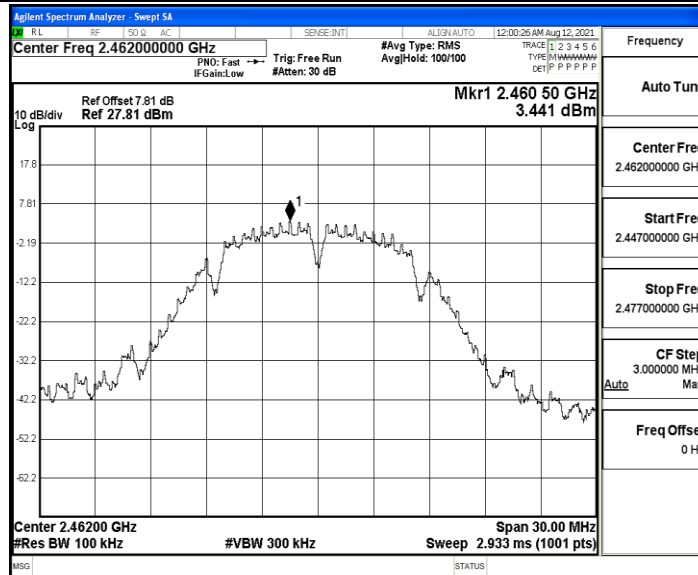




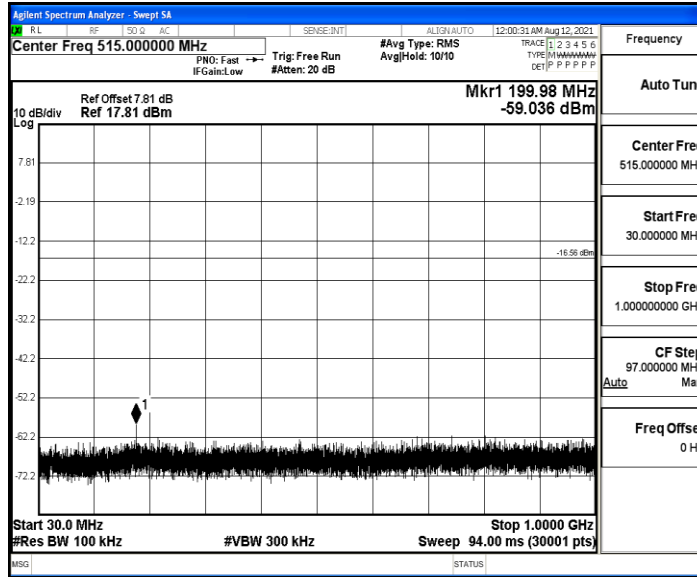
11B_Ant1_2437_1000~26500



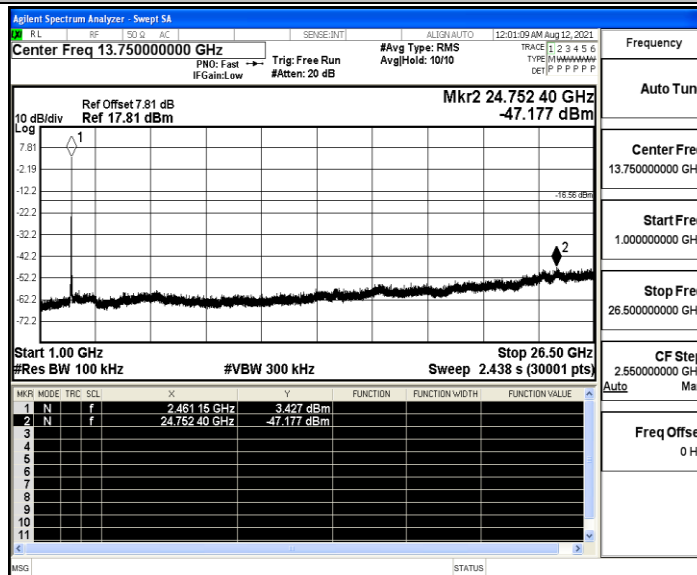
11B_Ant1_2462_0~Reference



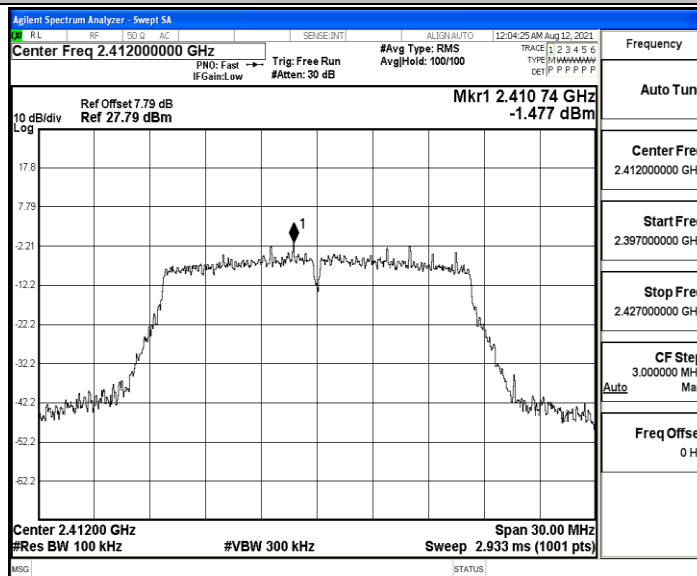
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

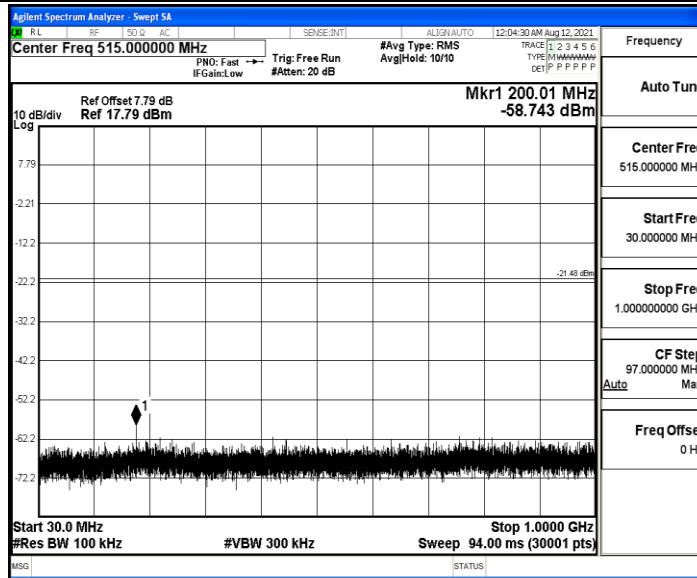


11G_Ant1_2412_0~Reference

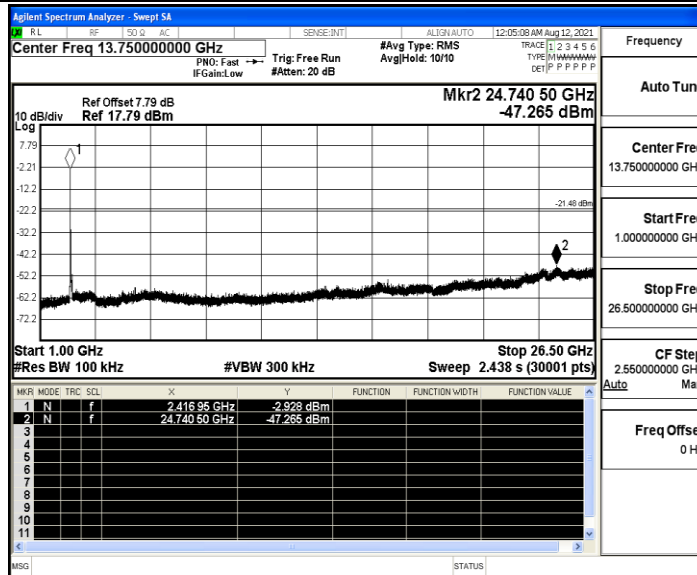




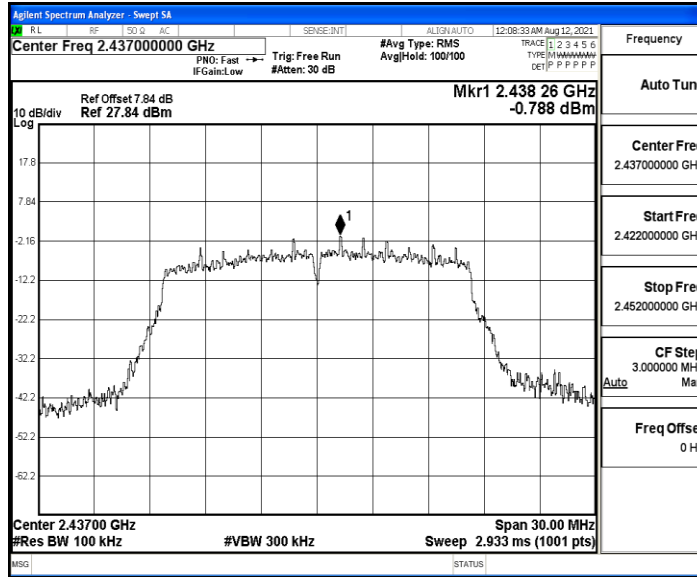
11G_Ant1_2412_30~1000



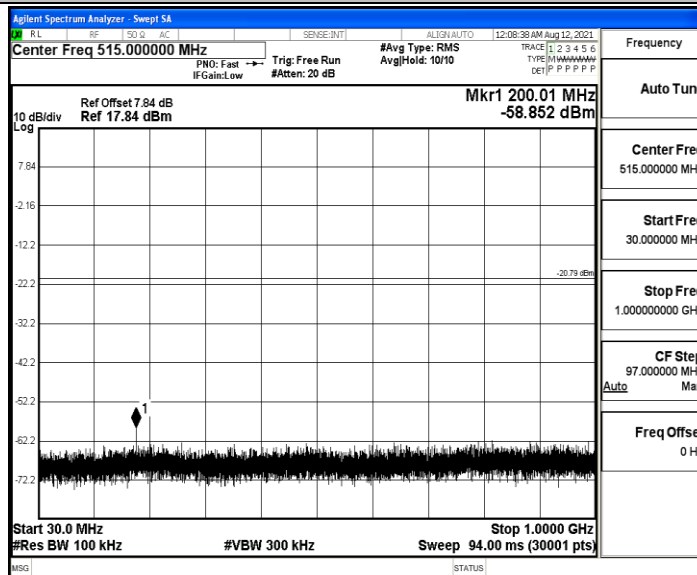
11G_Ant1_2412_1000~26500



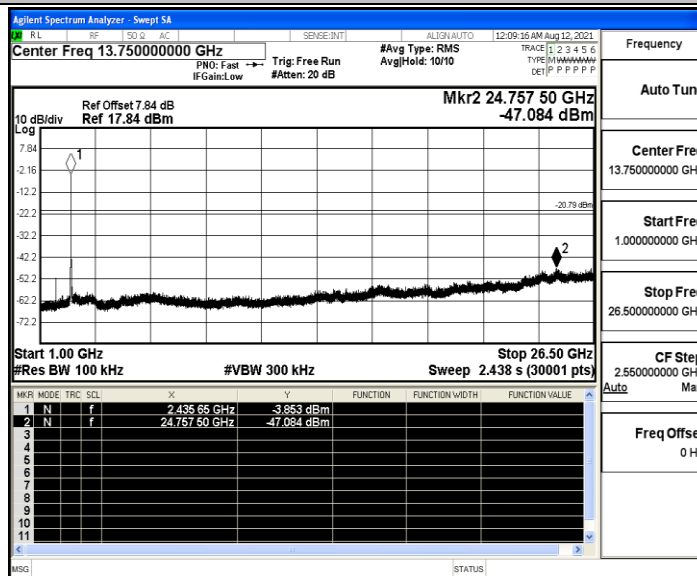
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

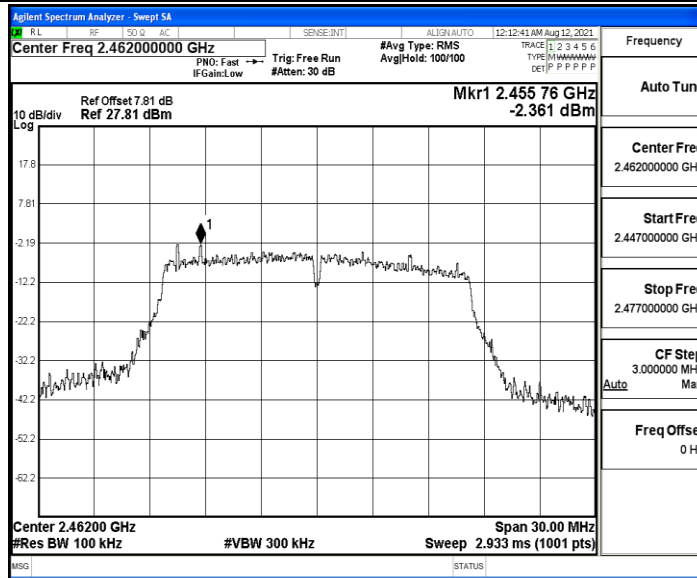


11G_Ant1_2437_1000~26500

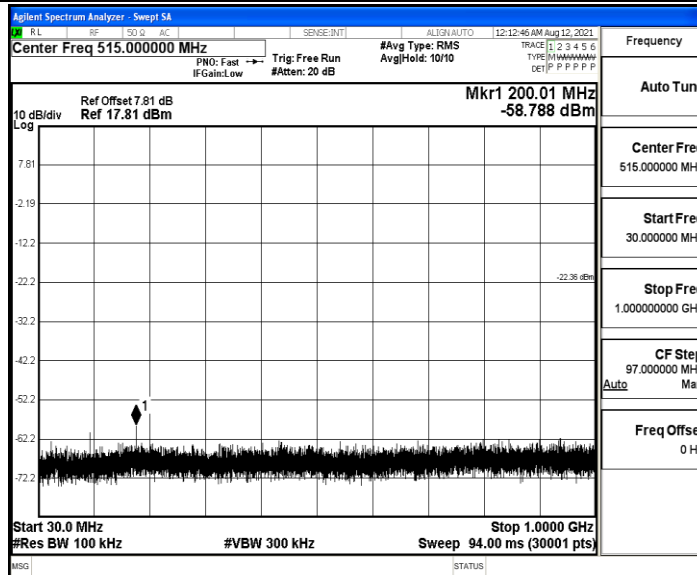




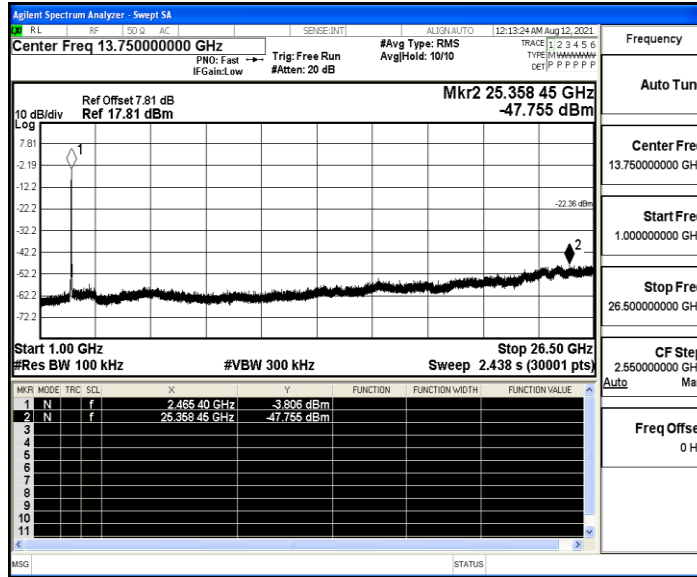
11G_Ant1_2462_0~Reference



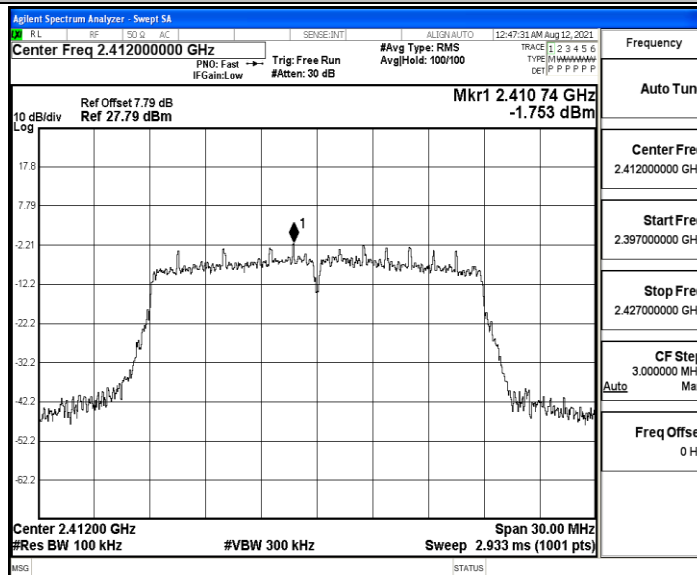
11G_Ant1_2462_30~1000



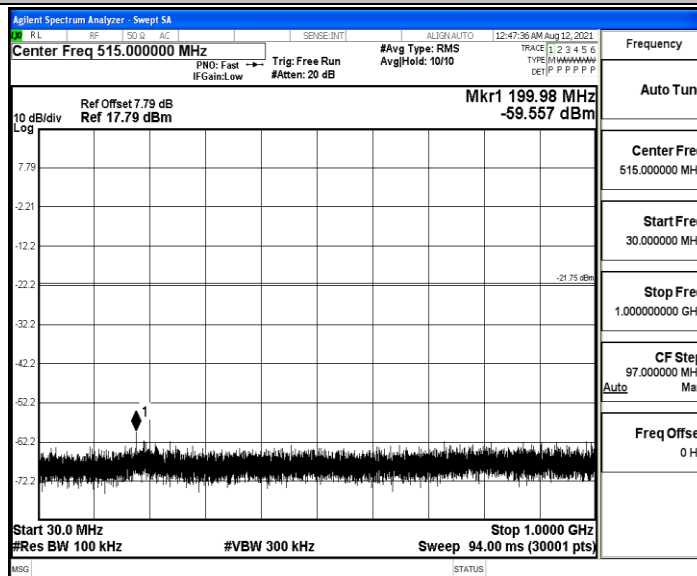
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

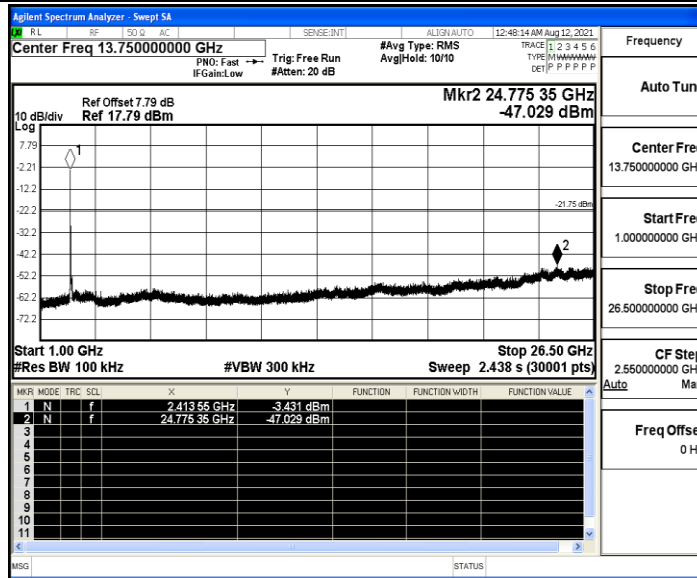


11N20SISO_Ant1_2412_30~1000

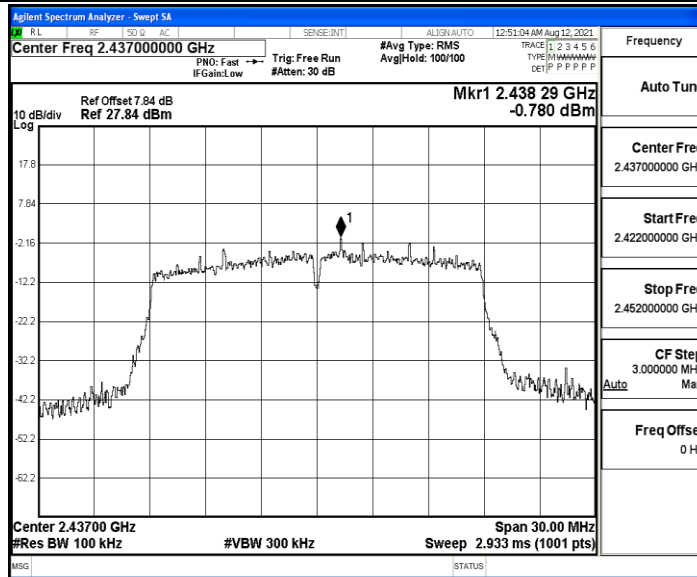




11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000