



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: H1 Tablet / H1

Test Model: H1

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling. Zhu
Supervised by:	Libu



C.1 6dB Bandwidth

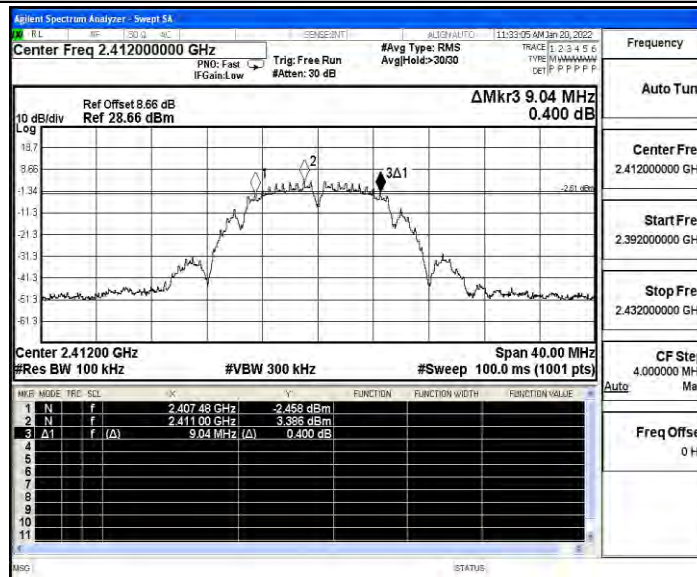
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant	2412	16.040	2403.840	2419.880	0.5	PASS
		2437	15.920	2429.240	2445.160	0.5	PASS
		2462	16.040	2453.840	2469.880	0.5	PASS
11N20SISO	Ant	2412	16.760	2403.480	2420.240	0.5	PASS
		2437	16.840	2428.800	2445.640	0.5	PASS
		2462	17.000	2453.200	2470.200	0.5	PASS
11N40SISO	Ant	2422	36.080	2403.840	2439.920	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS

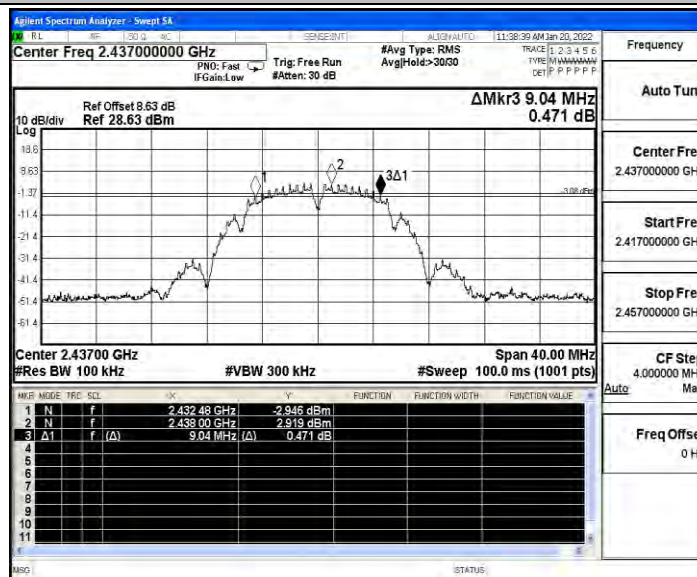


Test Graphs

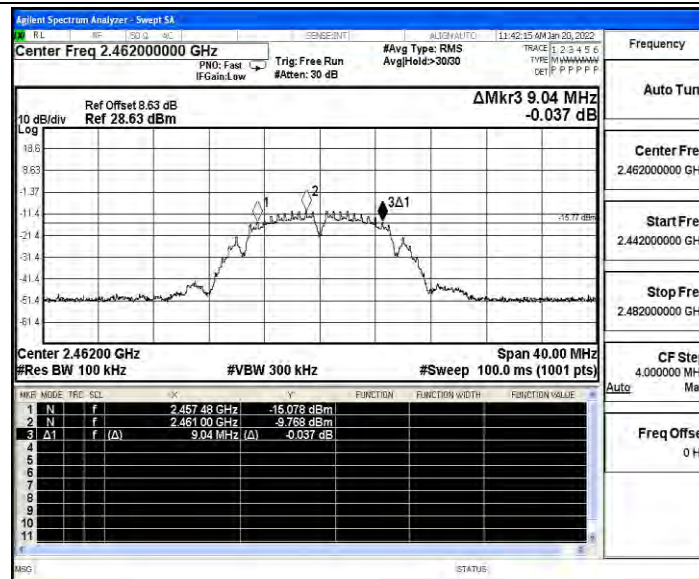
11B_Ant_2412



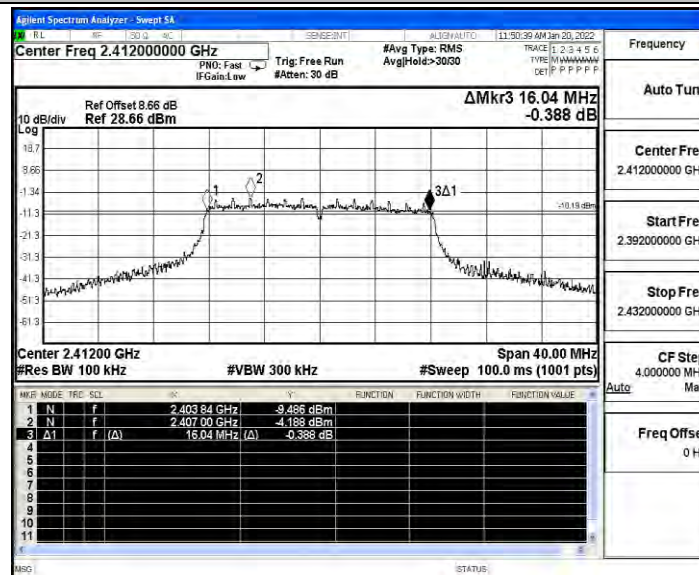
11B_Ant_2437



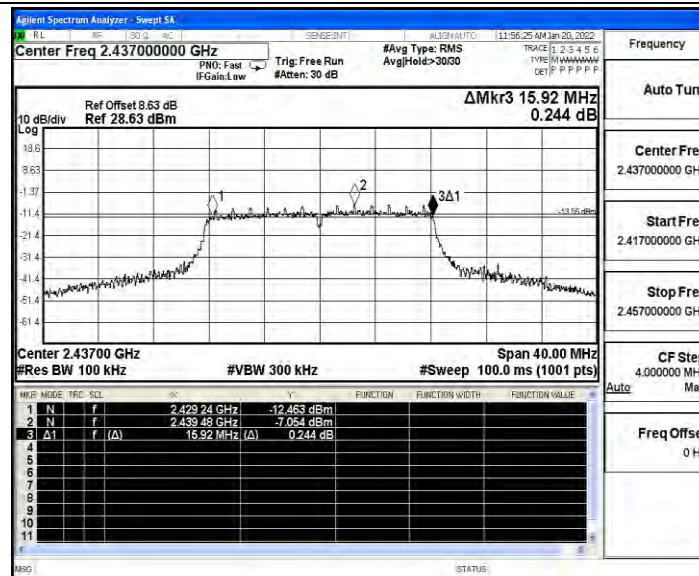
11B_Ant_2462



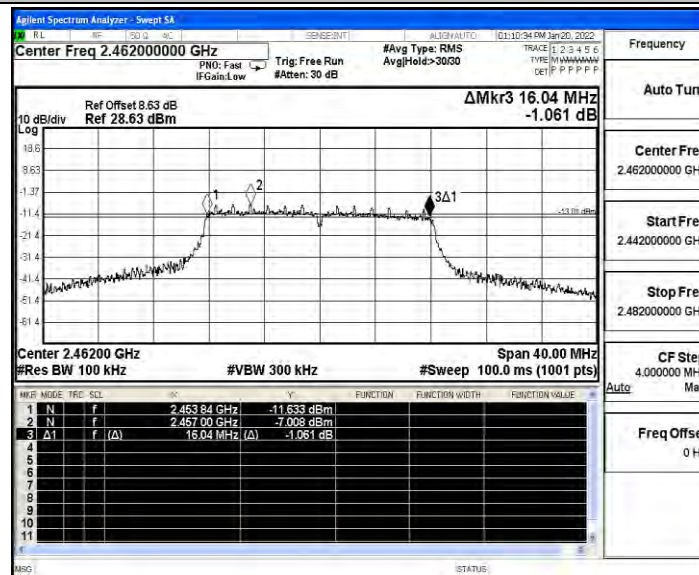
11G_Ant_2412



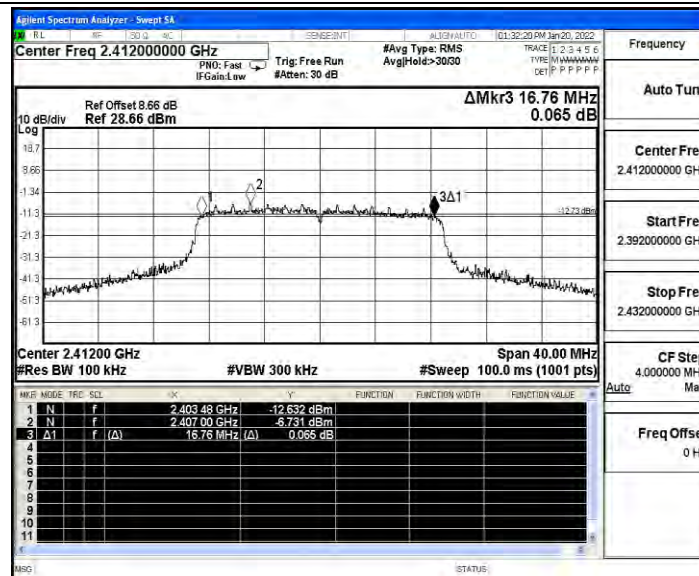
11G_Ant_2437



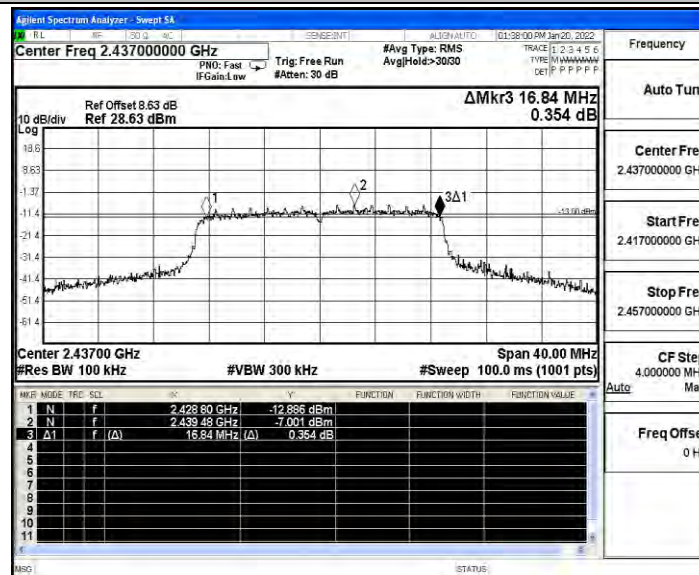
11G_Ant_2462



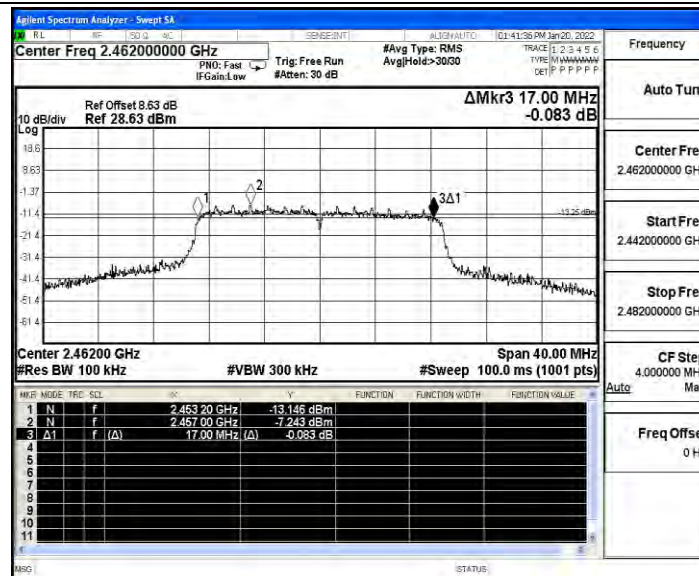
11N20SISO_Ant_2412



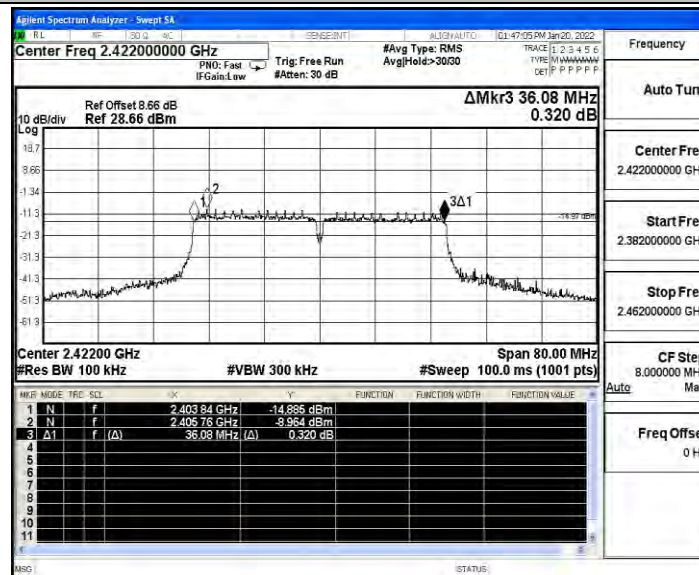
11N20SISO_Ant_2437



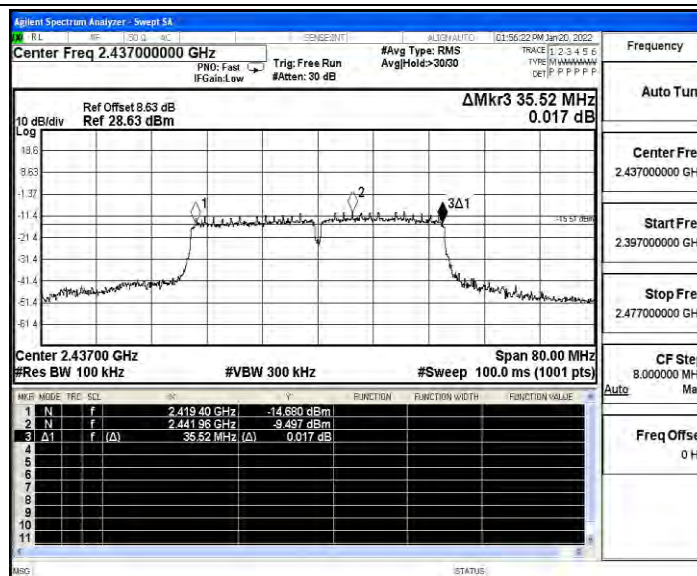
11N20SISO_Ant_2462



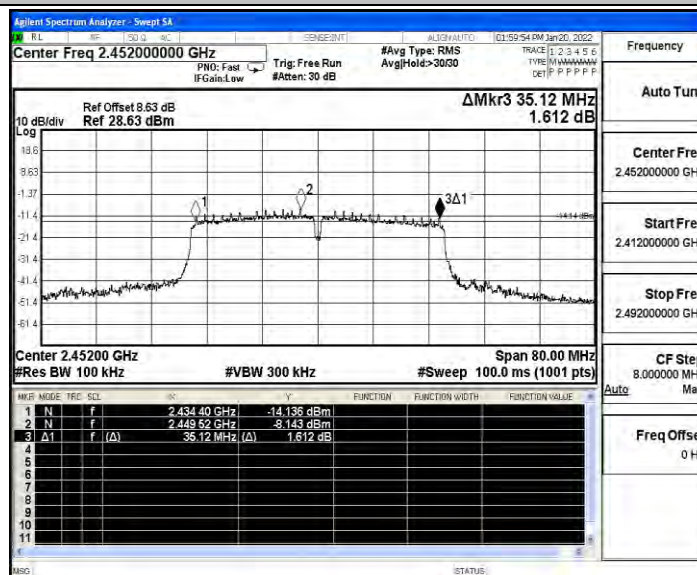
11N40SISO_Ant_2422



11N40SISO_Ant_2437



11N40SISO_Ant_2452





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	14.81	≤ 30.00	PASS
		2437	14.50	≤ 30.00	PASS
		2462	14.98	≤ 30.00	PASS
11G	Ant	2412	12.41	≤ 30.00	PASS
		2437	11.85	≤ 30.00	PASS
		2462	11.97	≤ 30.00	PASS
11N20SISO	Ant	2412	13.06	≤ 30.00	PASS
		2437	12.57	≤ 30.00	PASS
		2462	12.40	≤ 30.00	PASS
11N40SISO	Ant	2422	13.27	≤ 30.00	PASS
		2437	12.83	≤ 30.00	PASS
		2452	13.46	≤ 30.00	PASS



C.3 Maximum power spectral density

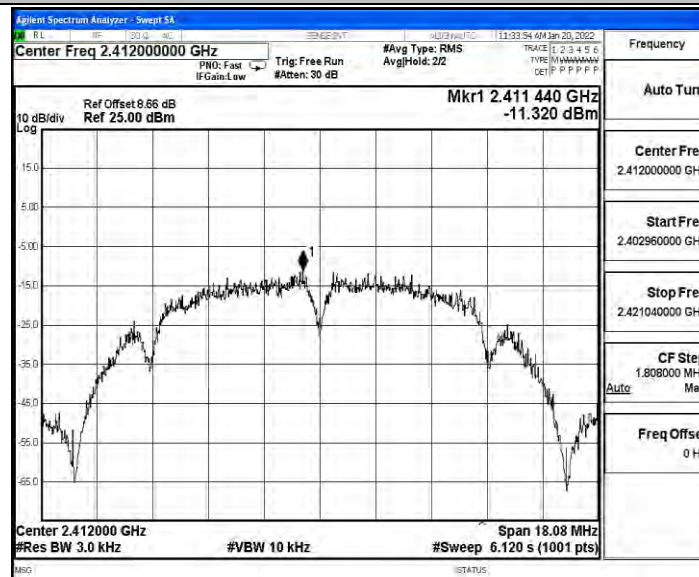
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-11.32	≤8.00	PASS
		2437	-10.91	≤8.00	PASS
		2462	-11.09	≤8.00	PASS
11G	Ant	2412	-21.63	≤8.00	PASS
		2437	-22.11	≤8.00	PASS
		2462	-22.05	≤8.00	PASS
11N20SISO	Ant	2412	-22.48	≤8.00	PASS
		2437	-22.78	≤8.00	PASS
		2462	-22.95	≤8.00	PASS
11N40SISO	Ant	2422	-23.88	≤8.00	PASS
		2437	-24.44	≤8.00	PASS
		2452	-22.67	≤8.00	PASS

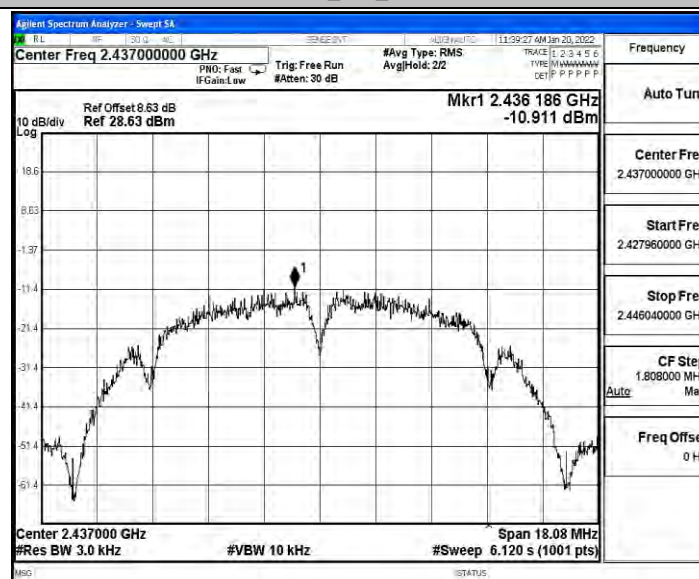


Test Graphs

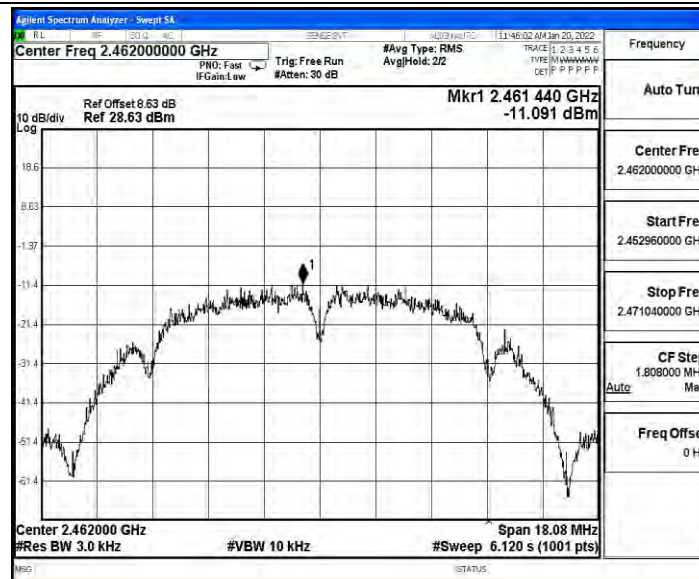
11B_Ant_2412



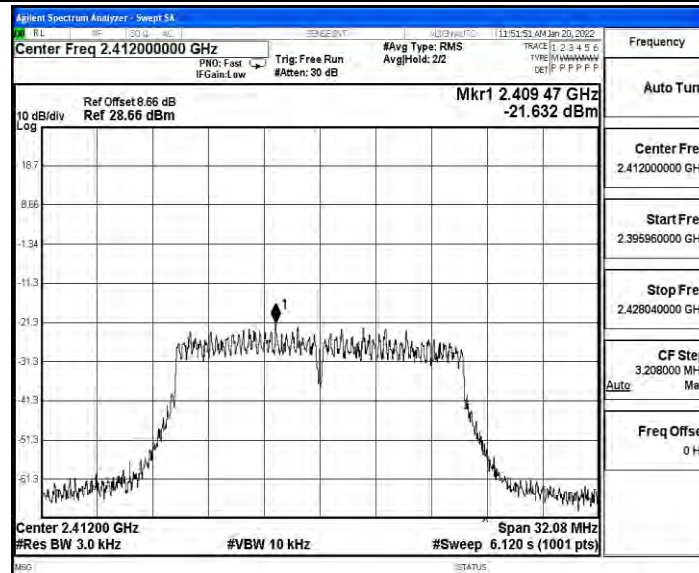
11B_Ant_2437



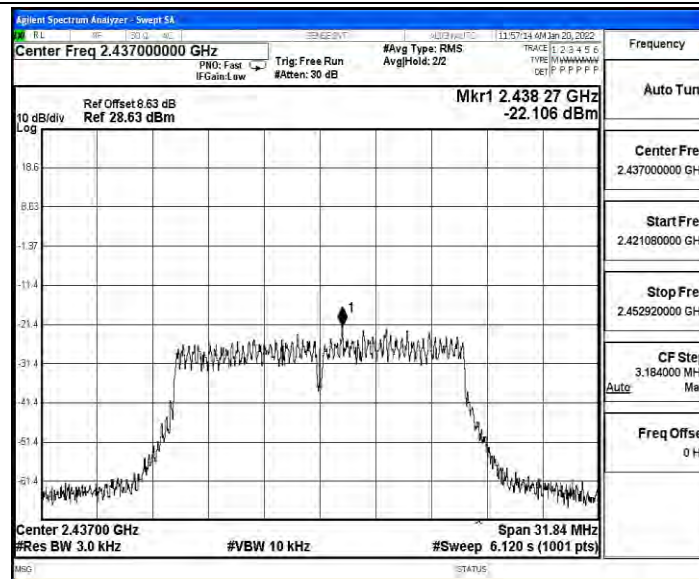
11B_Ant_2462



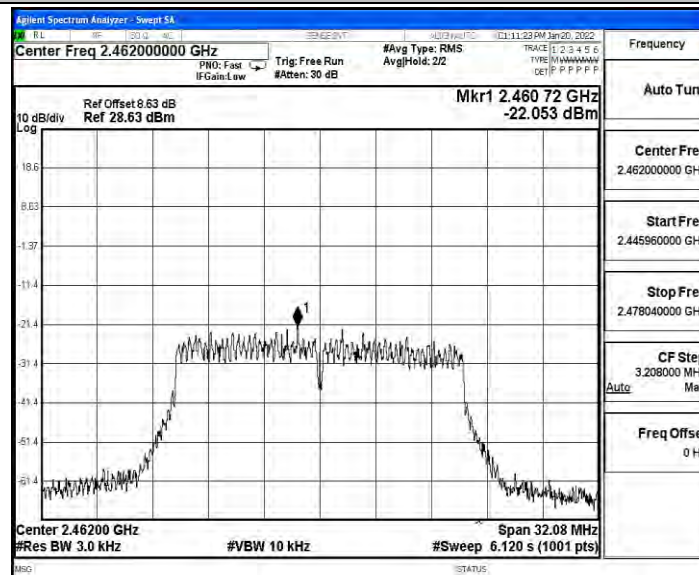
11G_Ant_2412



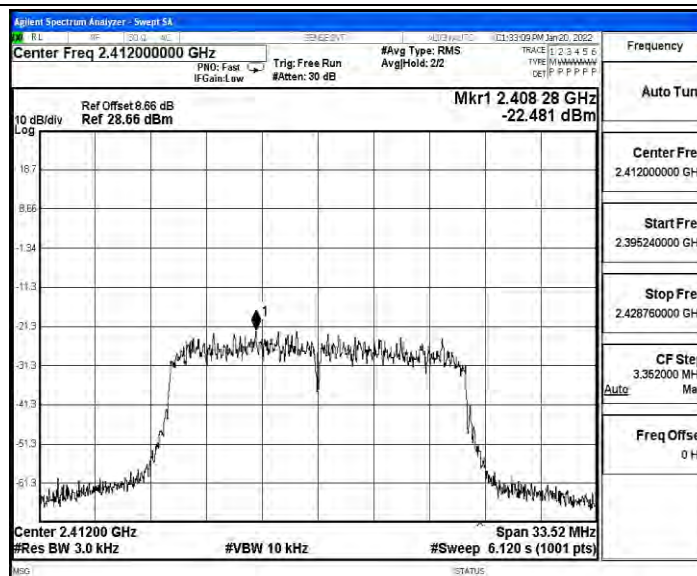
11G_Ant_2437



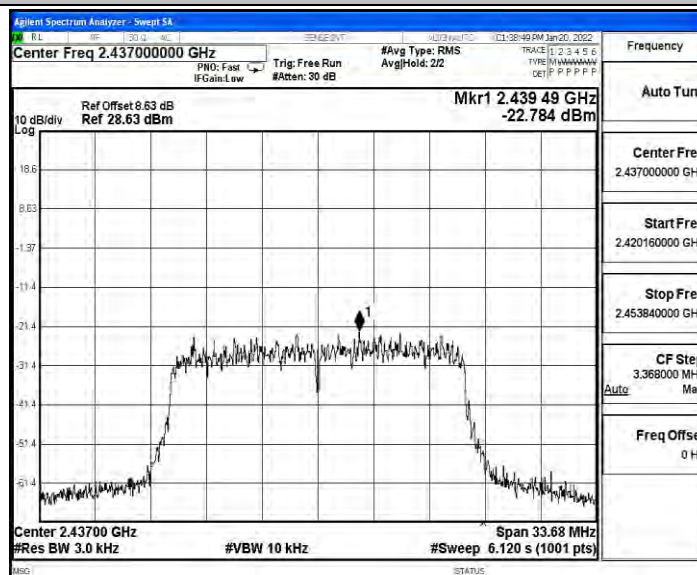
11G_Ant_2462



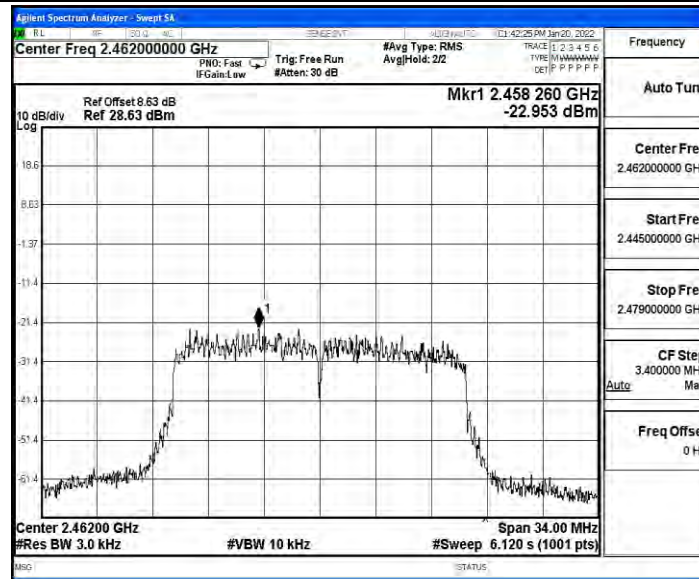
11N20SISO_Ant_2412



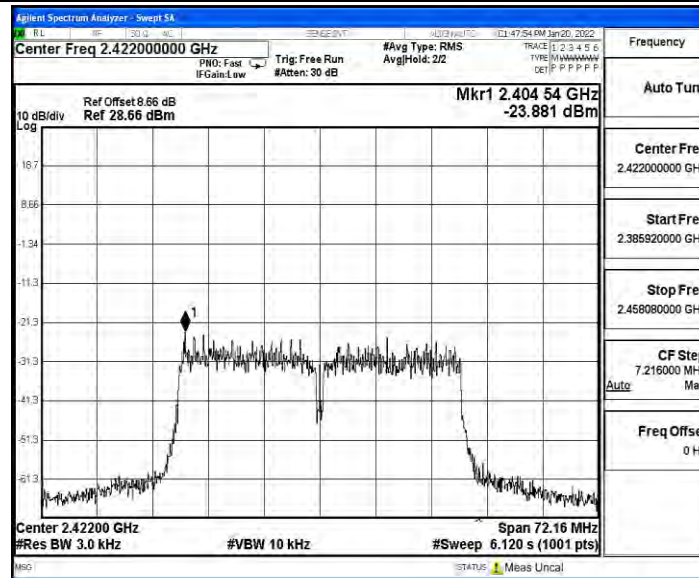
11N20SISO_Ant_2437



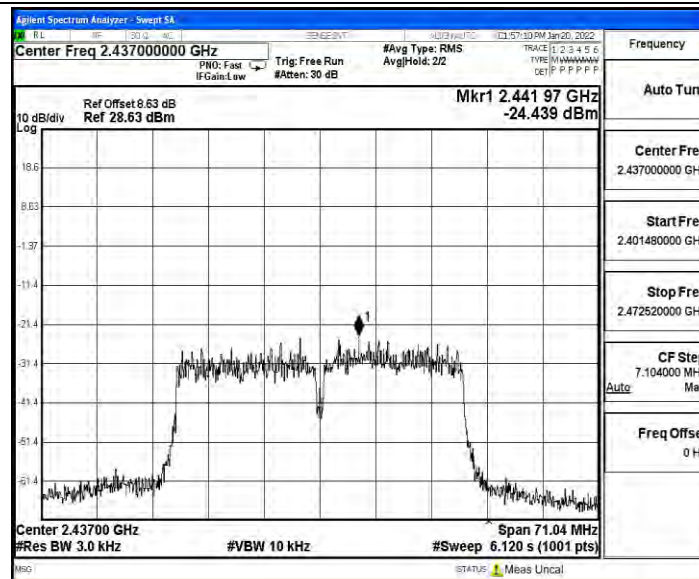
11N20SISO_Ant_2462



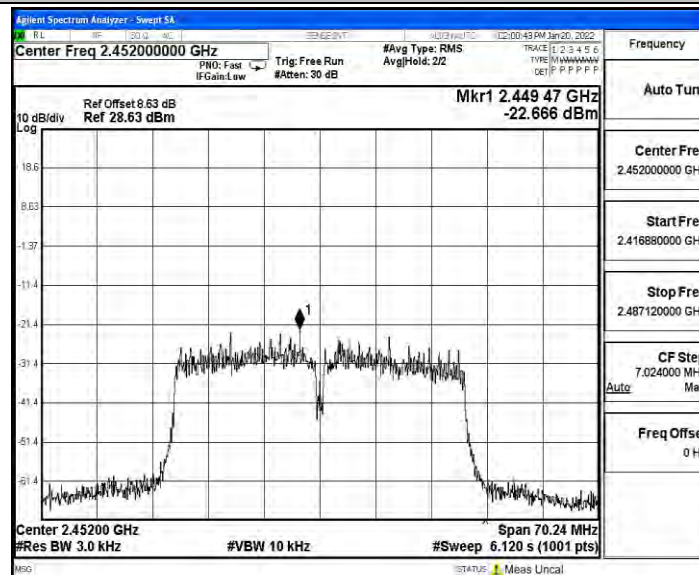
11N40SISO_Ant_2422



11N40SISO_Ant_2437



11N40SISO_Ant_2452



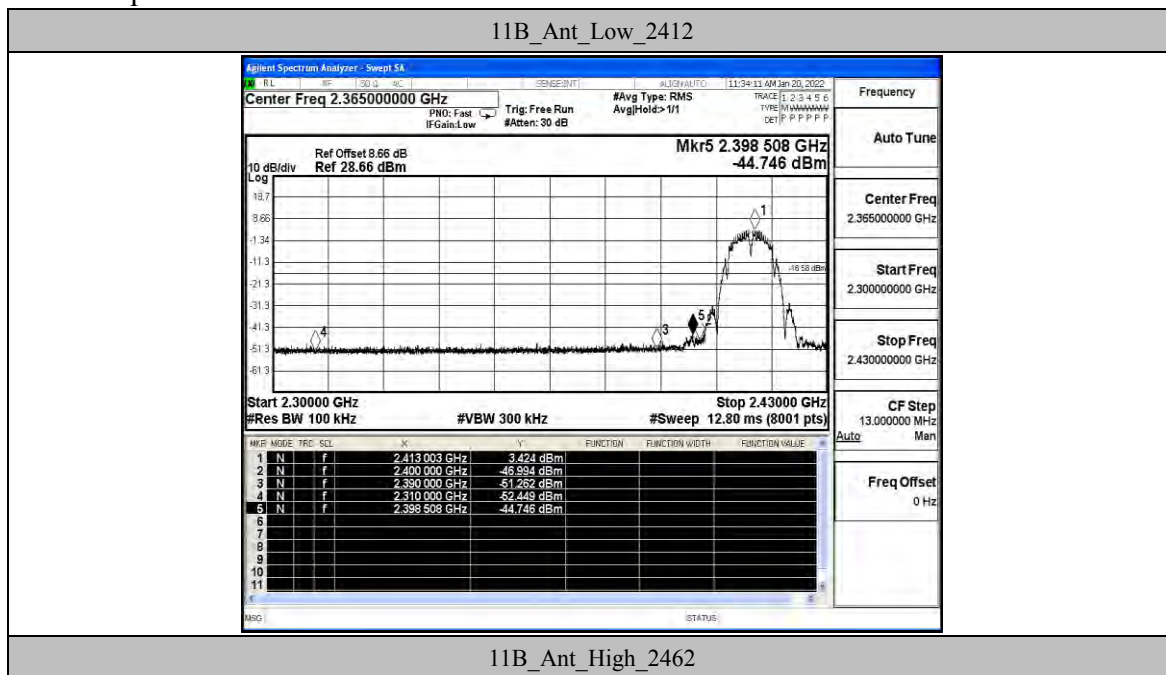


C.4 Band edge measurements

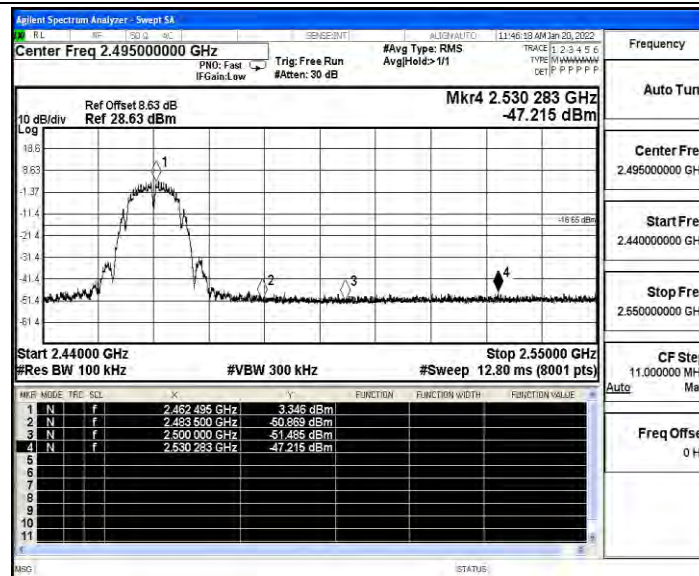
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	3.42	-44.75	≤ -16.58	PASS
		High	2462	3.35	-47.22	≤ -16.65	PASS
11G	Ant	Low	2412	-6.59	-38.21	≤ -26.59	PASS
		High	2462	-6.95	-47.77	≤ -26.95	PASS
11N20SISO	Ant	Low	2412	-6.56	-37.93	≤ -26.56	PASS
		High	2462	-7.10	-47.81	≤ -27.1	PASS
11N40SISO	Ant	Low	2422	-8.85	-40.21	≤ -28.85	PASS
		High	2452	-8.10	-46.99	≤ -28.1	PASS

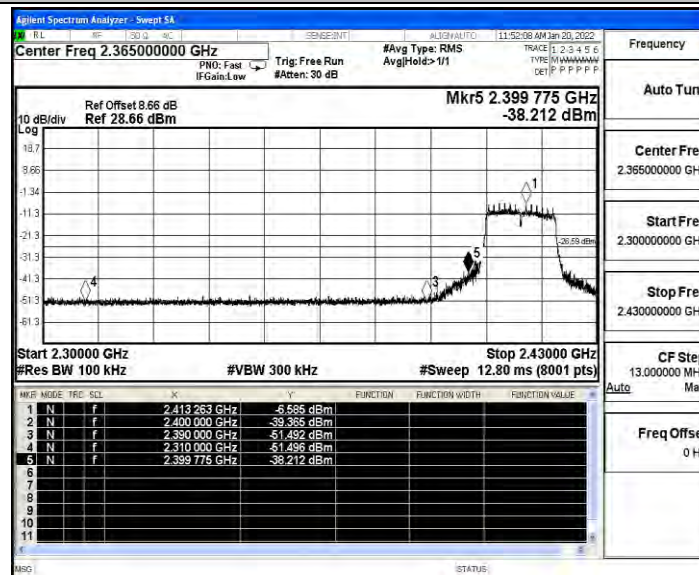
Test Graphs



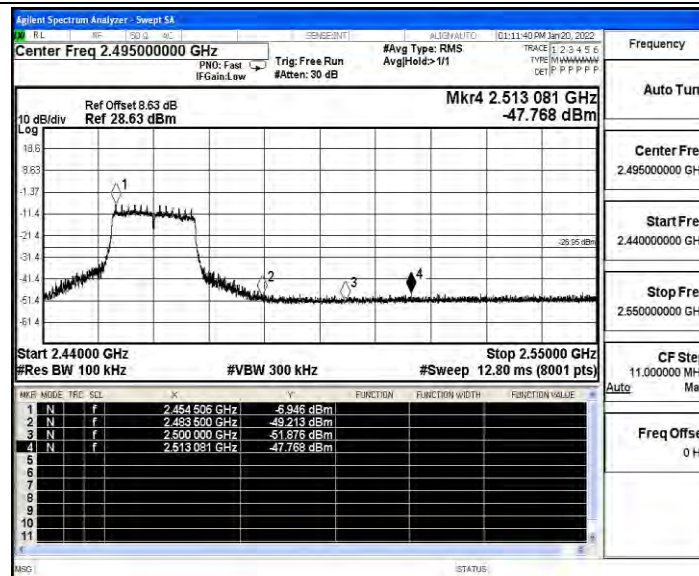
11B_Ant_High_2462



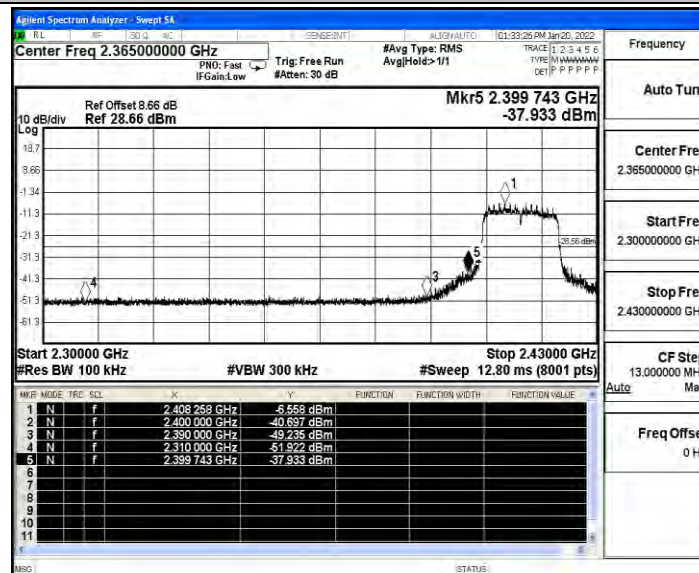
11G_Ant_Low_2412



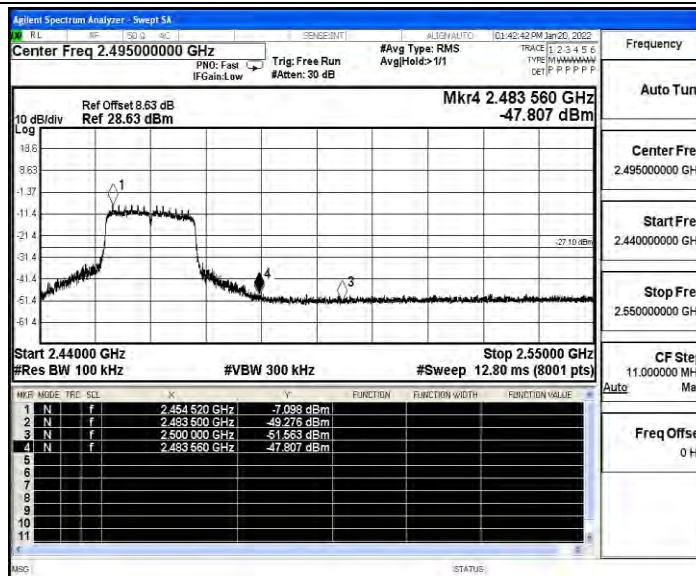
11G_Ant_High_2462



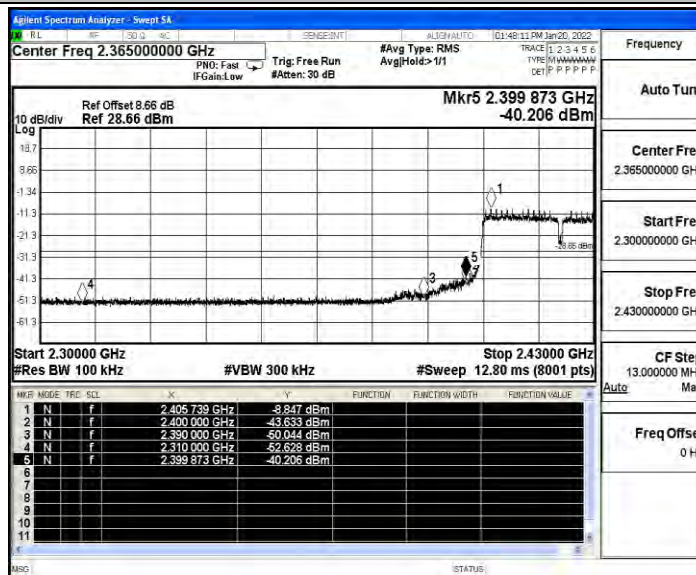
11N20SISO_Ant_Low_2412



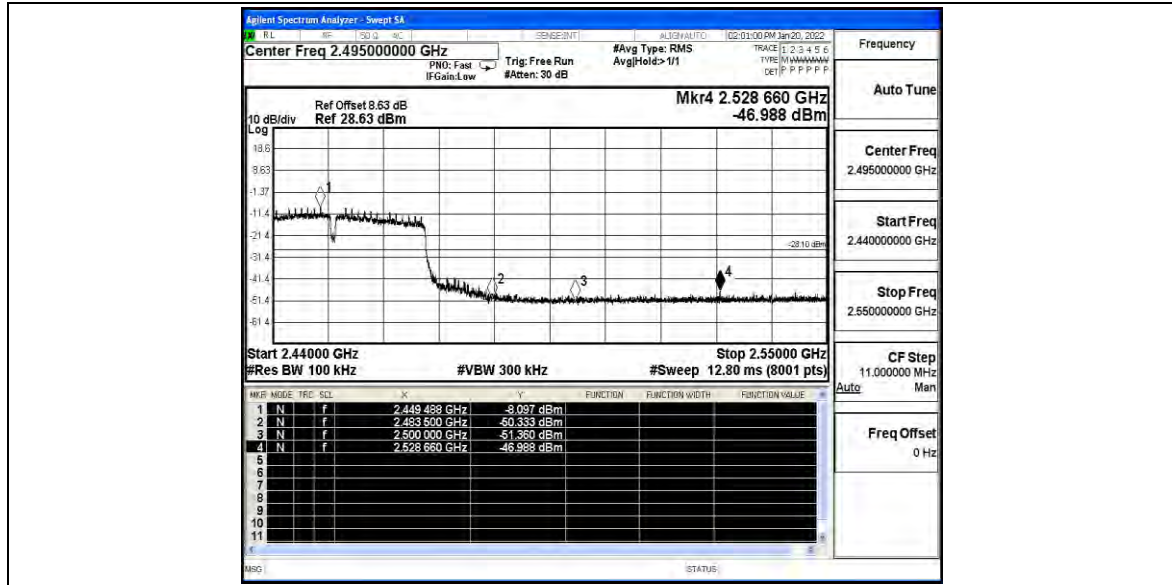
11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422



11N40SISO_Ant_High_2452





C.5 Conducted Spurious Emission

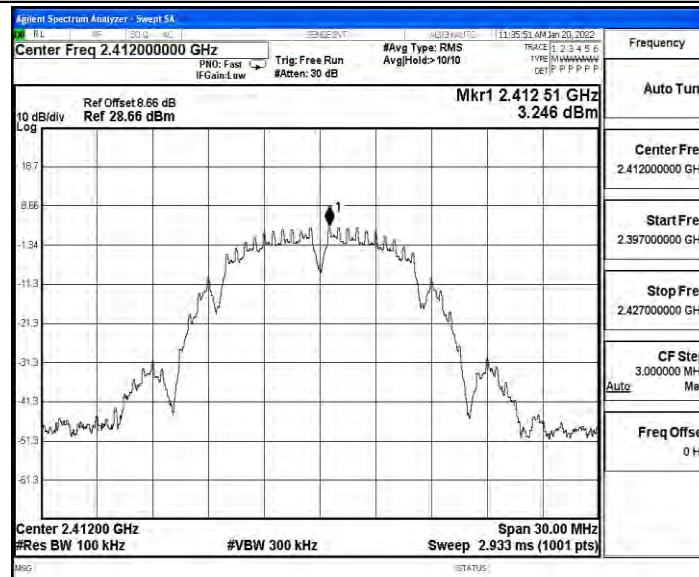
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-60.57	≤ -16.75	PASS
			1000~26500	3.25	-46.24	≤ -16.75	PASS
		2437	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-60.35	≤ -16.88	PASS
			1000~26500	3.12	-46.12	≤ -16.88	PASS
		2462	Reference	3.57	3.57	---	PASS
			30~1000	3.57	-60.33	≤ -16.43	PASS
			1000~26500	3.57	-46.31	≤ -16.43	PASS
11G	Ant	2412	Reference	-6.59	-6.59	---	PASS
			30~1000	-6.59	-50.68	≤ -26.59	PASS
			1000~26500	-6.59	-46.32	≤ -26.59	PASS
		2437	Reference	-6.89	-6.89	---	PASS
			30~1000	-6.89	-60.35	≤ -26.89	PASS
			1000~26500	-6.89	-45.59	≤ -26.89	PASS
		2462	Reference	-6.81	-6.81	---	PASS
			30~1000	-6.81	-51.11	≤ -26.81	PASS
			1000~26500	-6.81	-46.11	≤ -26.81	PASS
11N20SISO	Ant	2412	Reference	-6.60	-6.60	---	PASS
			30~1000	-6.60	-59.92	≤ -26.6	PASS
			1000~26500	-6.60	-46.01	≤ -26.6	PASS
		2437	Reference	-6.80	-6.80	---	PASS
			30~1000	-6.80	-60.17	≤ -26.8	PASS
			1000~26500	-6.80	-46.19	≤ -26.8	PASS
		2462	Reference	-6.97	-6.97	---	PASS
			30~1000	-6.97	-59.57	≤ -26.97	PASS
			1000~26500	-6.97	-45.93	≤ -26.97	PASS
11N40SISO	Ant	2422	Reference	-8.82	-8.82	---	PASS
			30~1000	-8.82	-60.45	≤ -28.82	PASS
			1000~26500	-8.82	-45.17	≤ -28.82	PASS
		2437	Reference	-9.01	-9.01	---	PASS
			30~1000	-9.01	-60.9	≤ -29.01	PASS
			1000~26500	-9.01	-46.07	≤ -29.01	PASS
		2452	Reference	-8.12	-8.12	---	PASS
			30~1000	-8.12	-59.9	≤ -28.12	PASS
			1000~26500	-8.12	-46.3	≤ -28.12	PASS

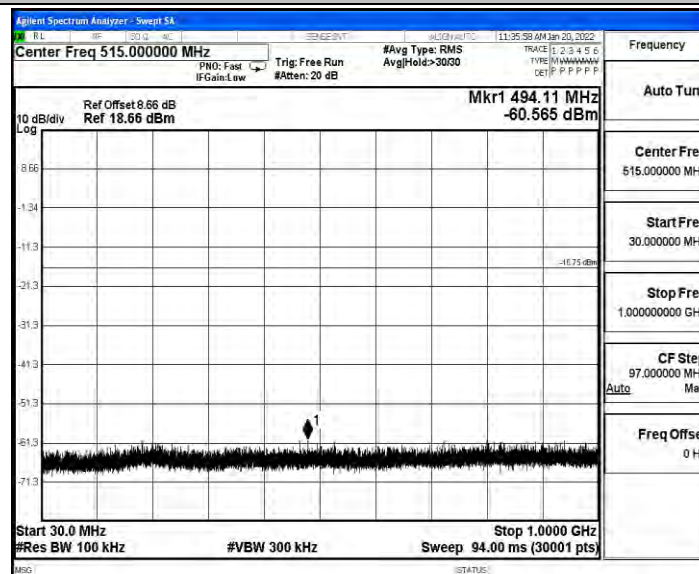


Test Graphs

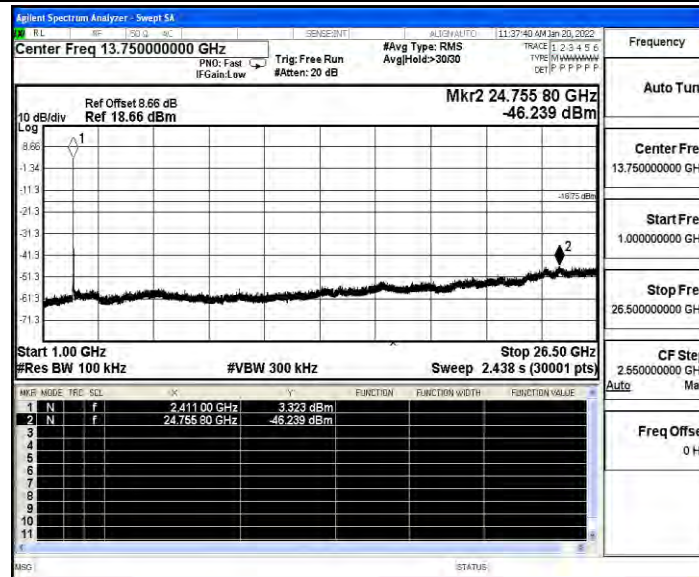
11B_Ant_2412_0~Reference



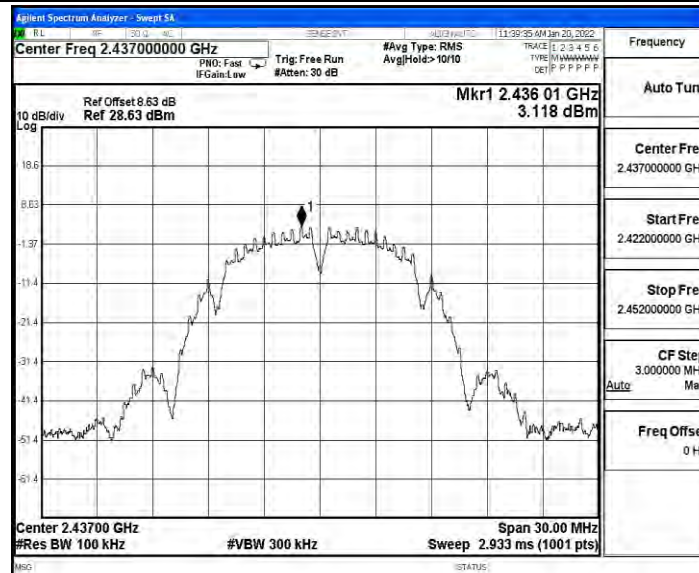
11B_Ant_2412_30~1000



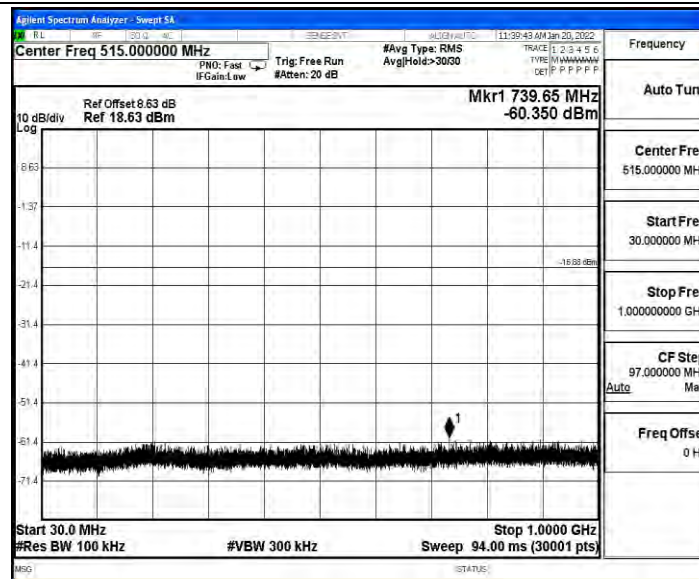
11B_Ant_2412_1000~26500



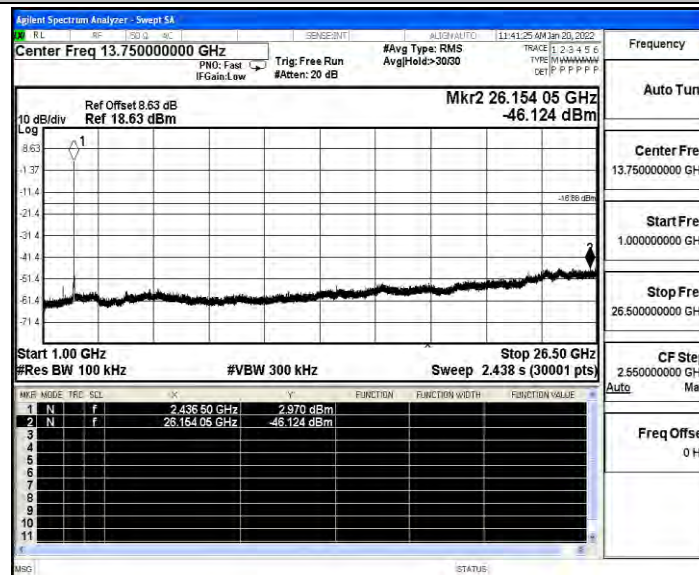
11B_Ant_2437_0~Reference



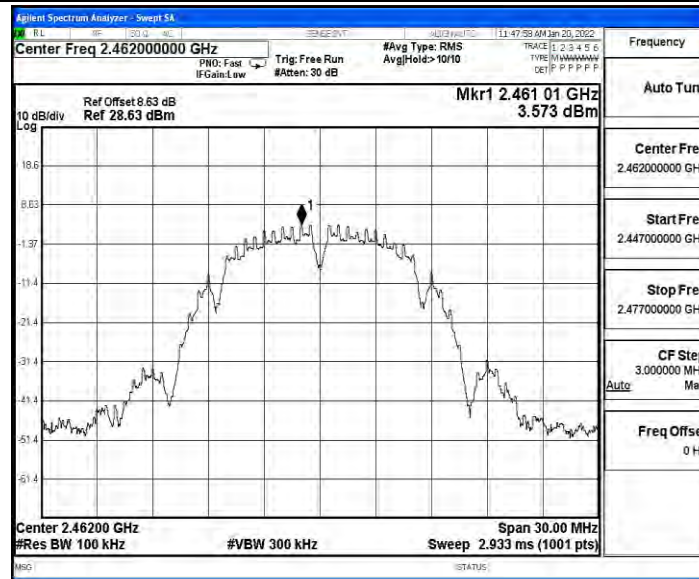
11B_Ant_2437_30~1000



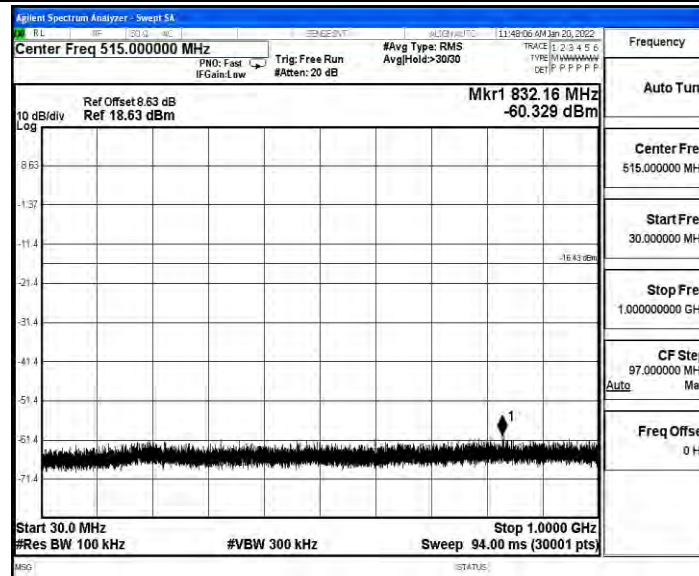
11B_Ant_2437_1000~26500



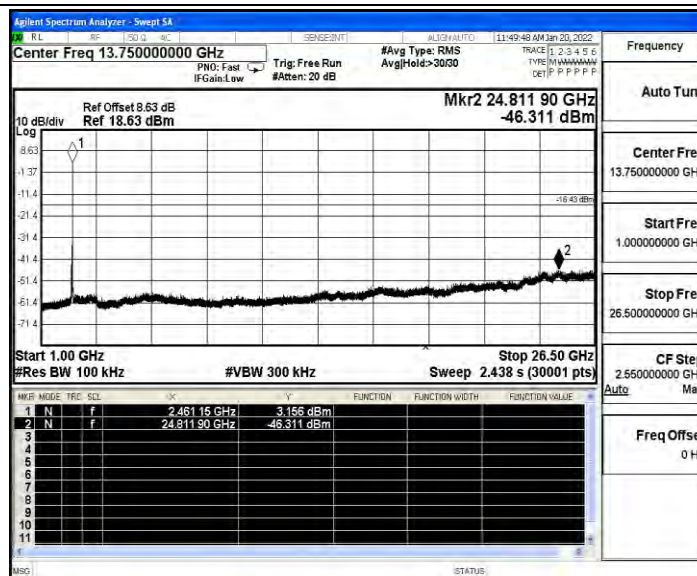
11B_Ant_2462_0~Reference



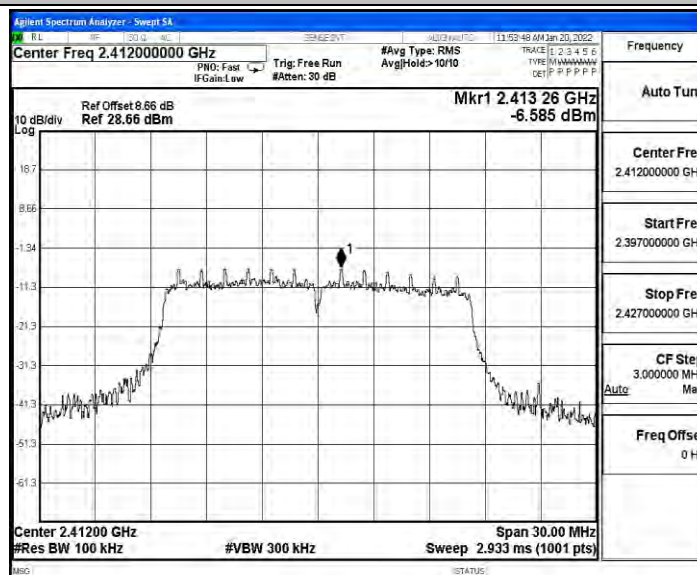
11B_Ant_2462_30~1000



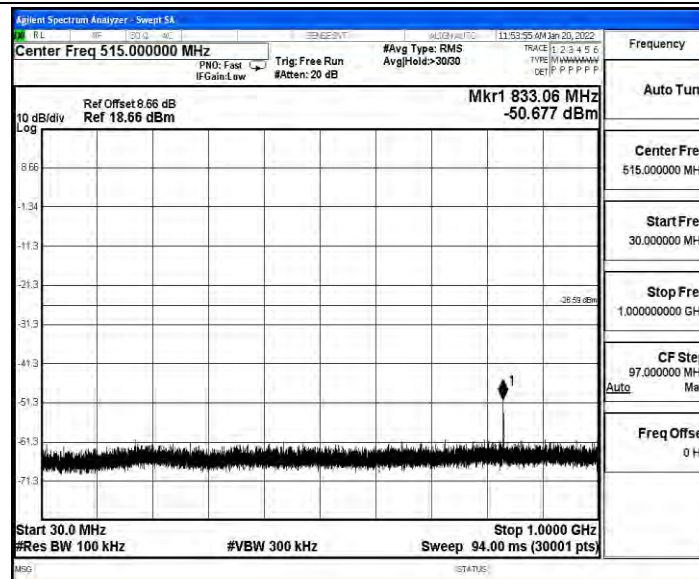
11B_Ant_2462_1000~26500



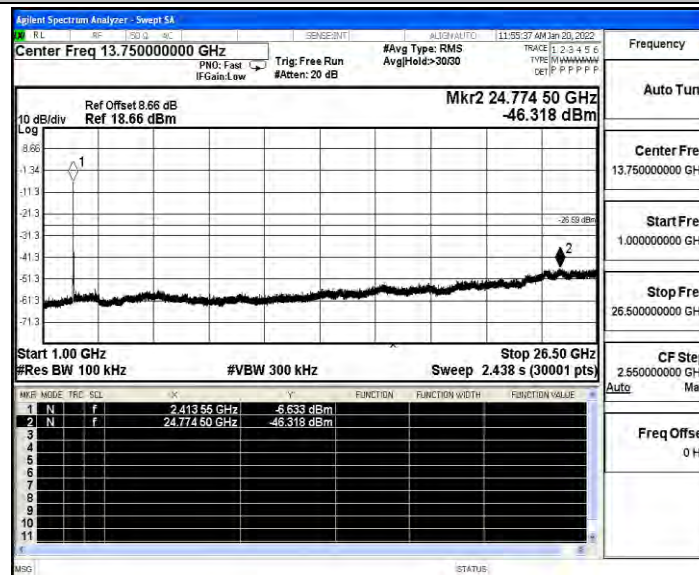
11G_Ant_2412_0~Reference



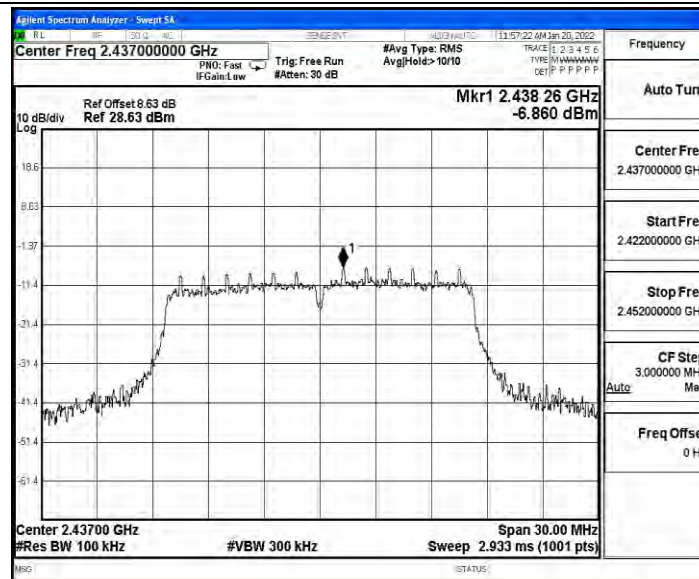
11G_Ant_2412_30~1000



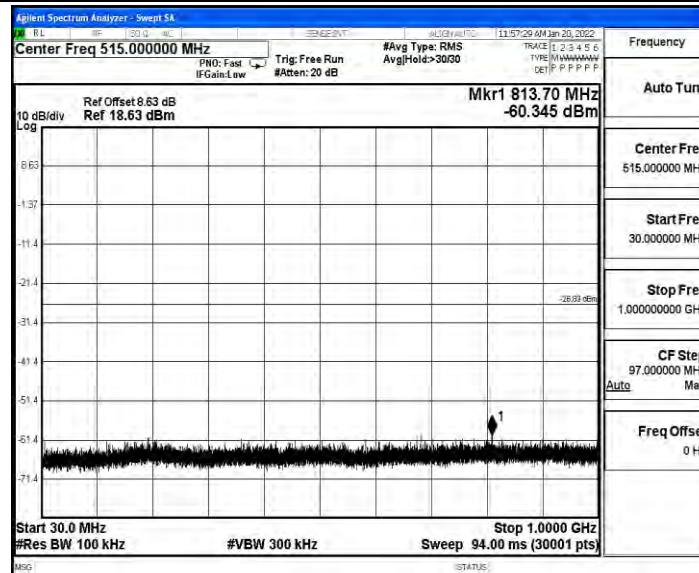
11G_Ant_2412_1000~26500



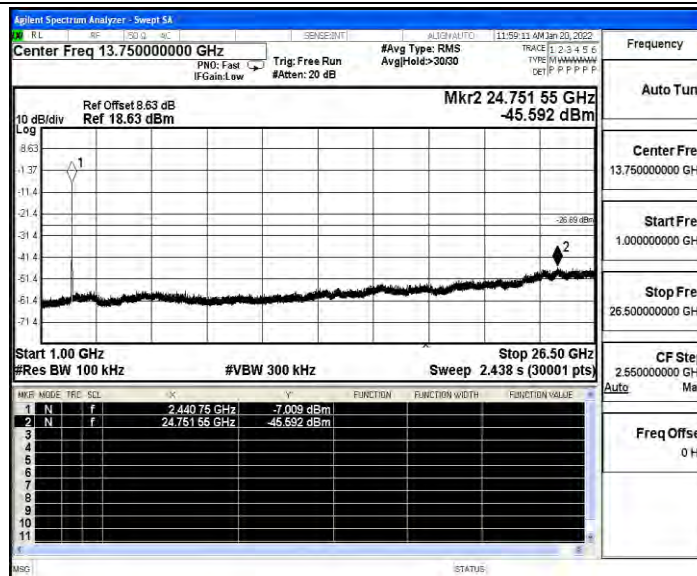
11G_Ant_2437_0~Reference



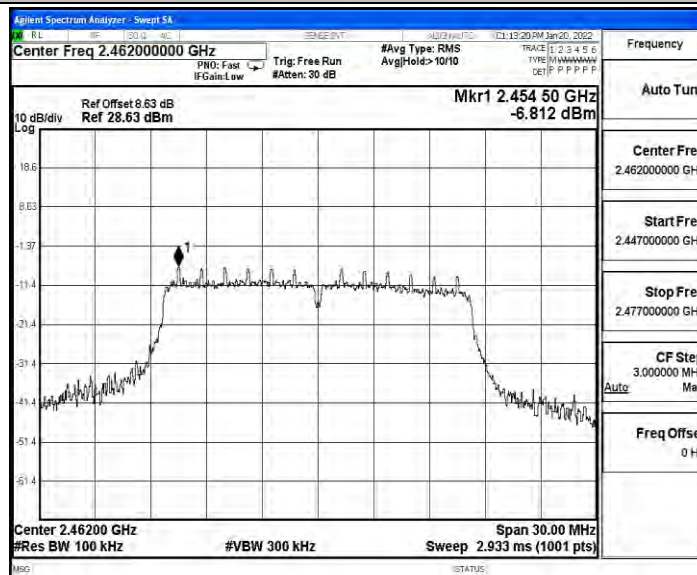
11G_Ant_2437_30~1000



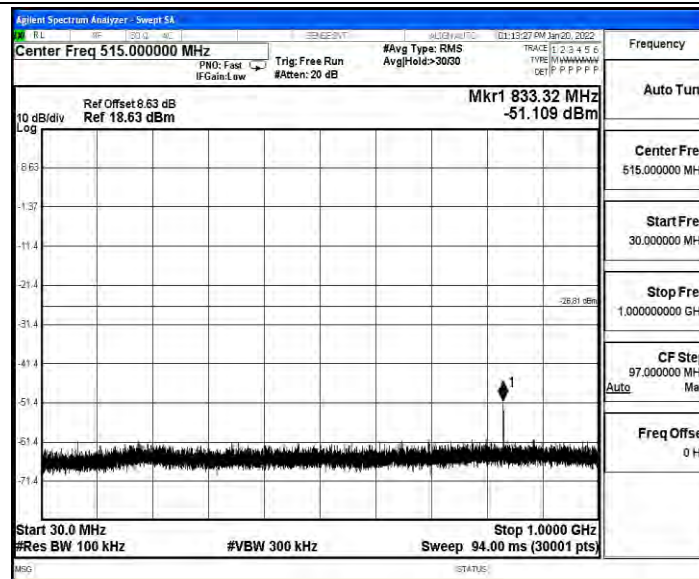
11G_Ant_2437_1000~26500



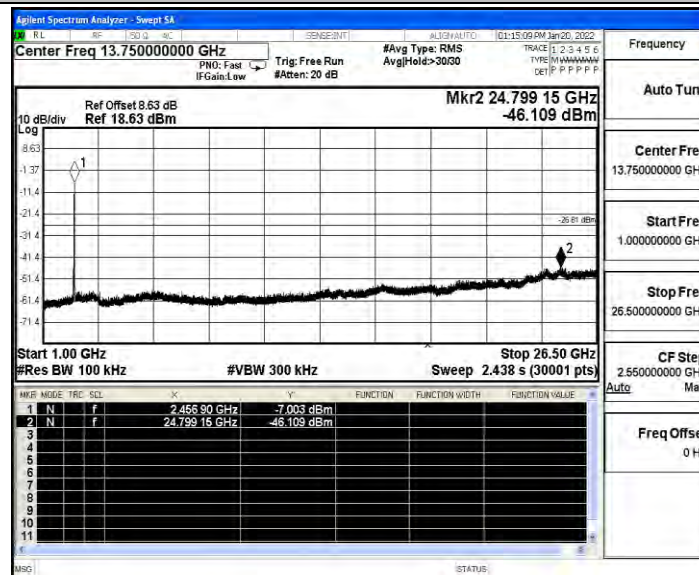
11G_Ant_2462_0~Reference



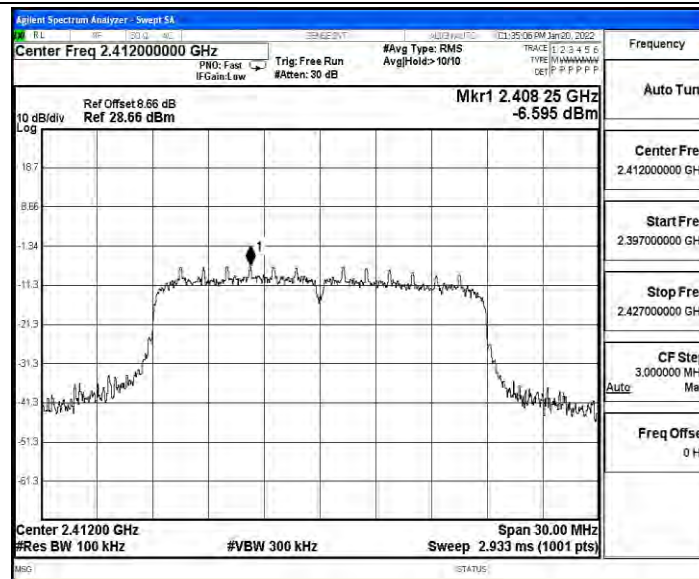
11G_Ant_2462_30~1000



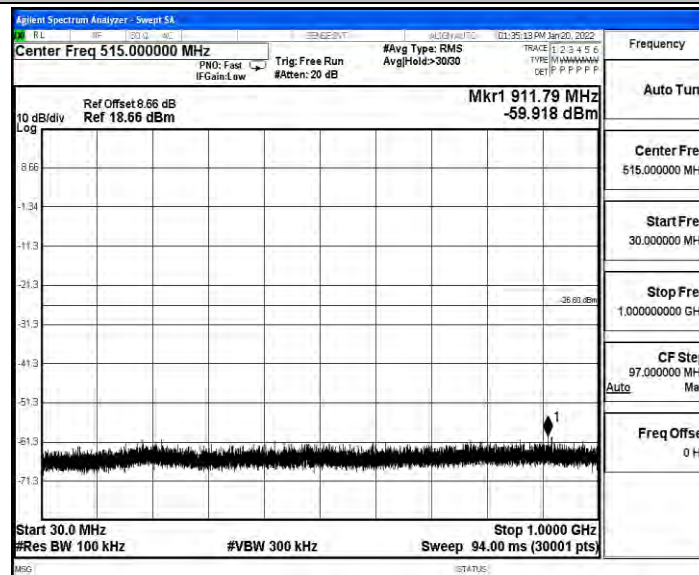
11G_Ant_2462_1000~26500



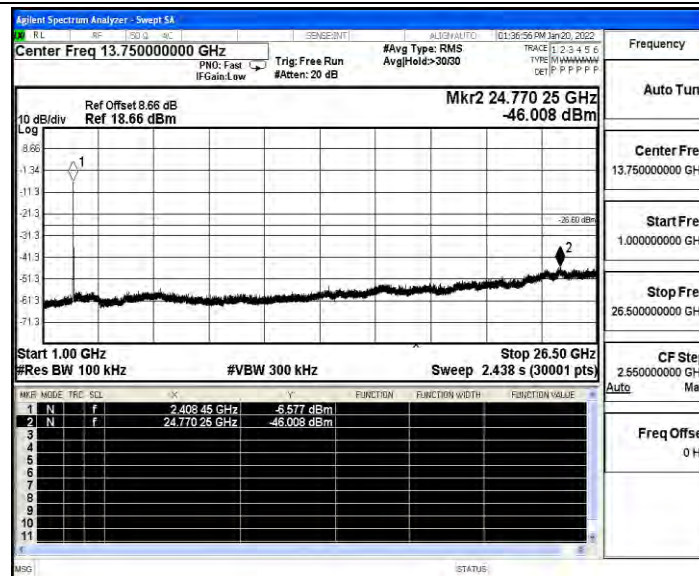
11N20SISO_Ant_2412_0~Reference



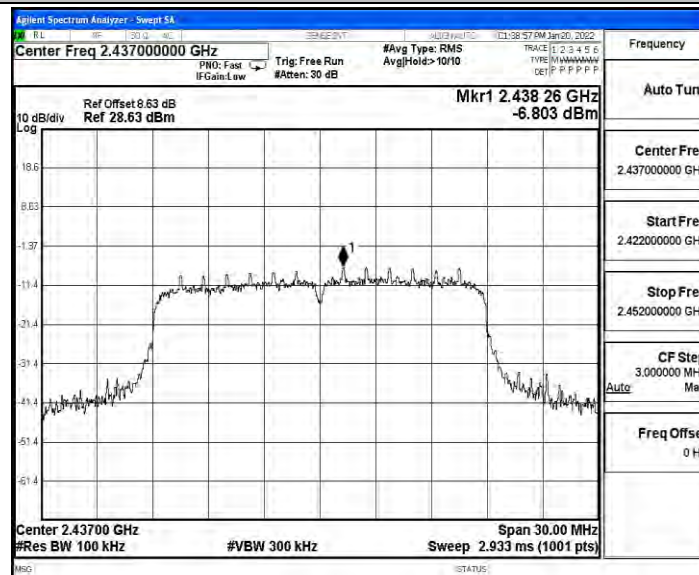
11N20SISO_Ant_2412_30~1000



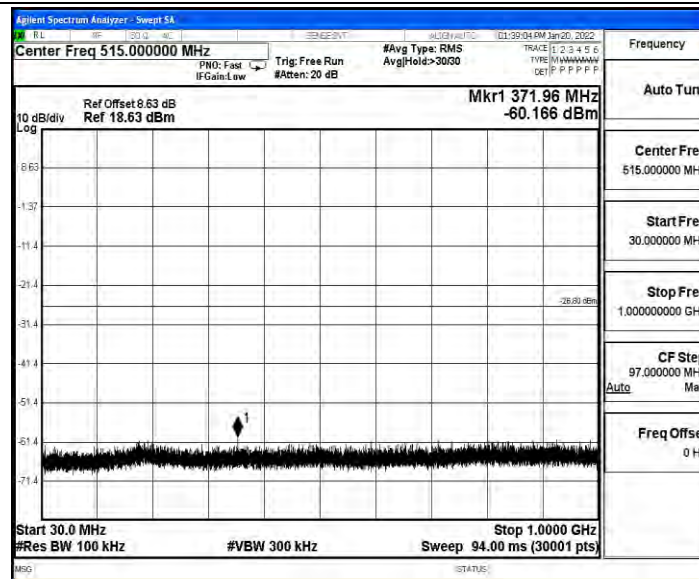
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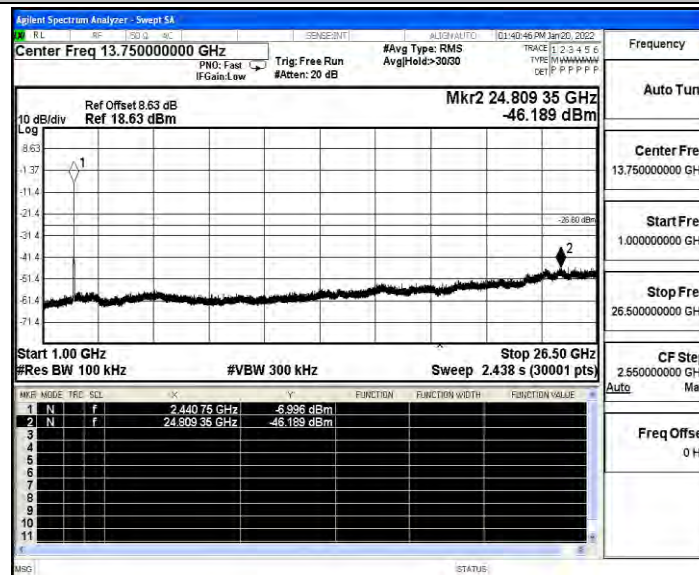
11N20SISO_Ant_2437_0~Reference



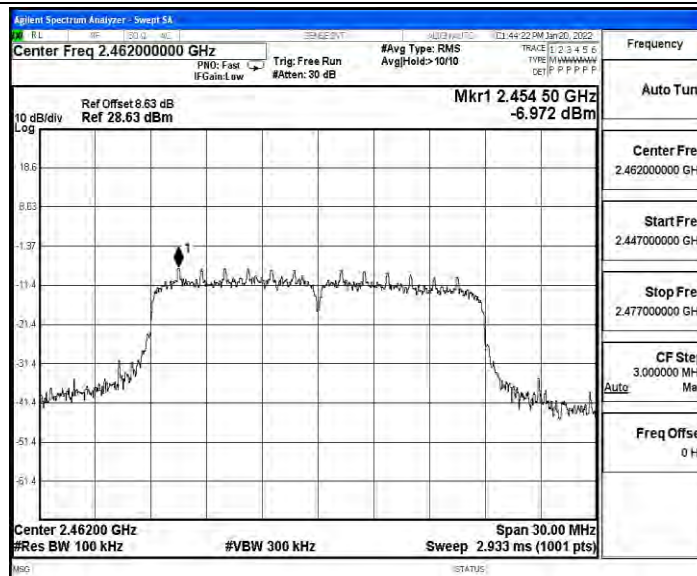
11N20SISO_Ant_2437_30~1000



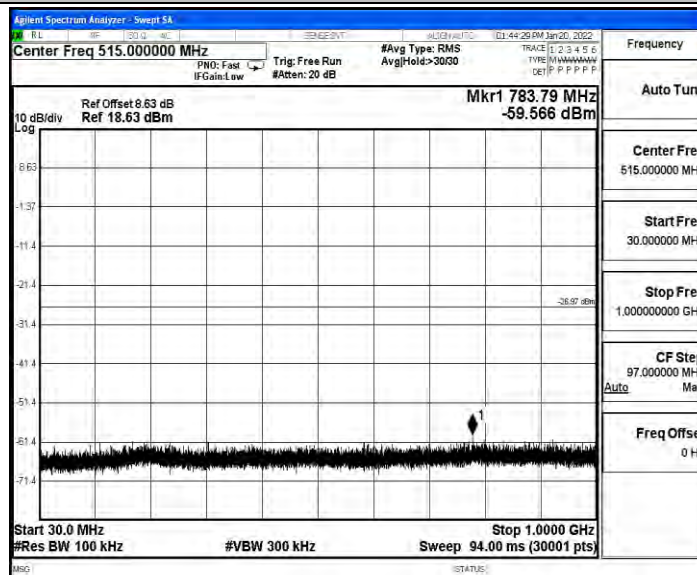
11N20SISO_Ant_2437_1000~26500



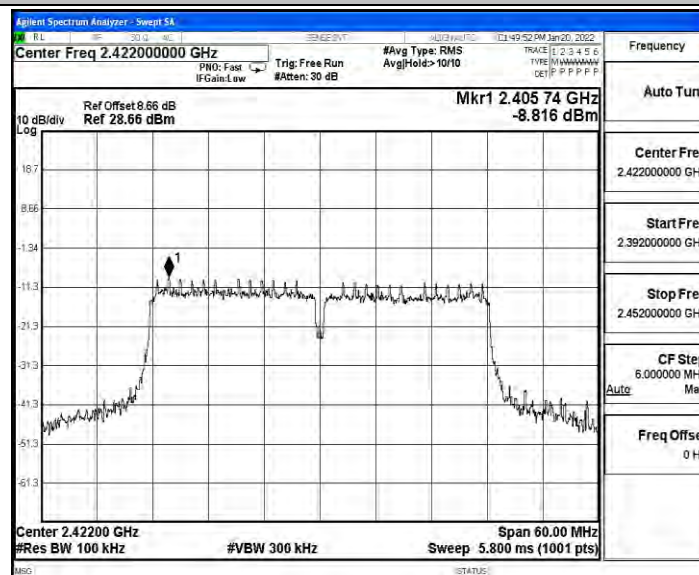
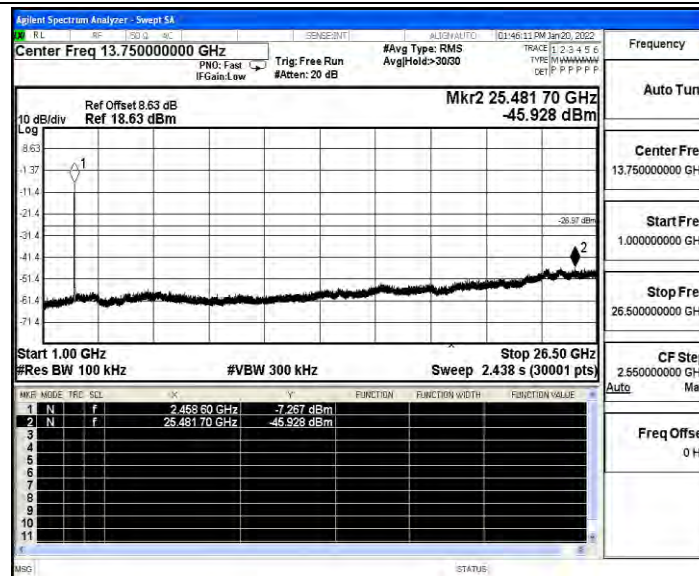
11N20SISO_Ant_2462_0~Reference

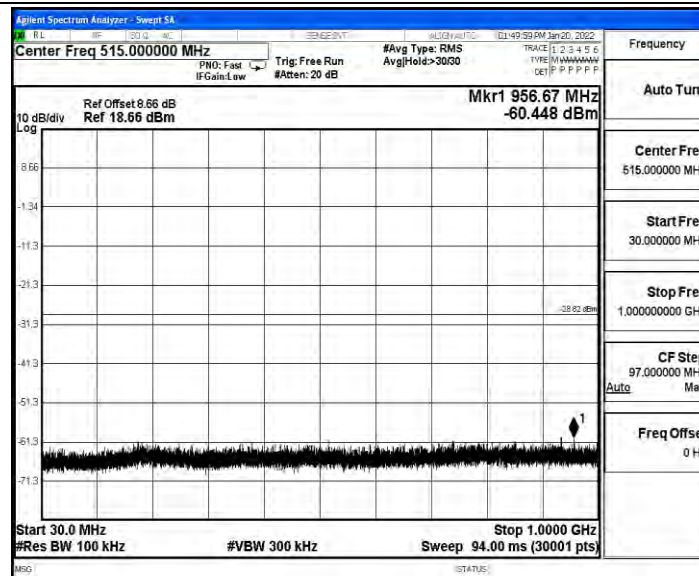


11N20SISO_Ant_2462_30~1000

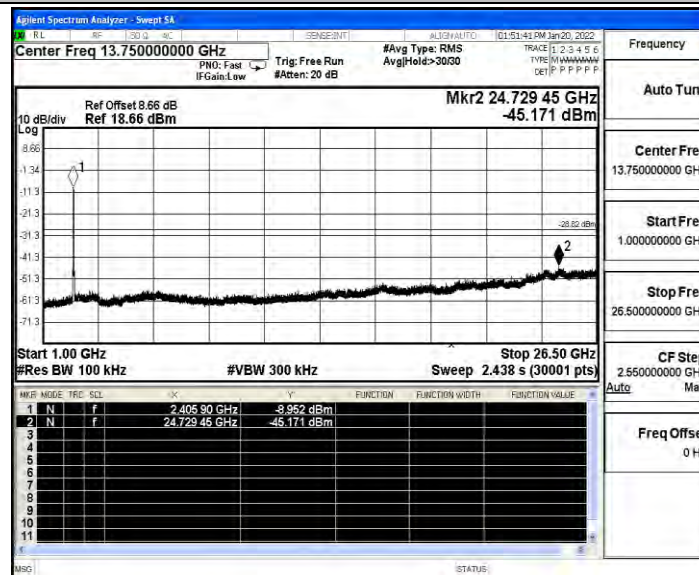


11N20SISO_Ant_2462_1000~26500

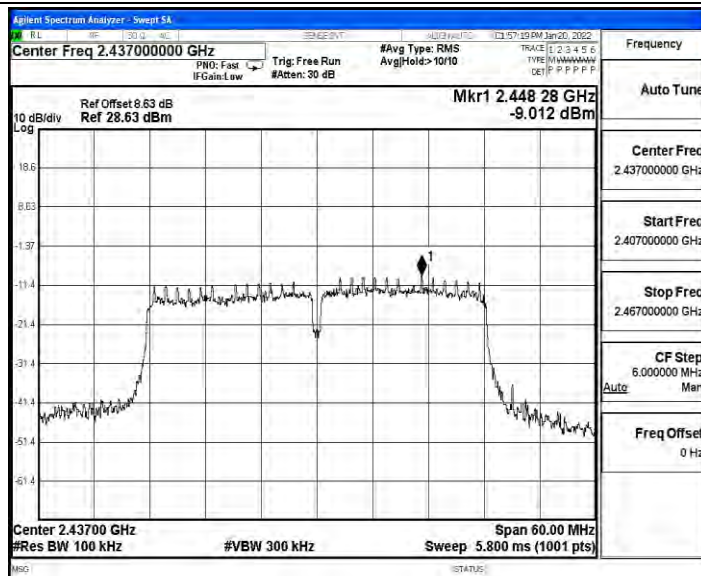




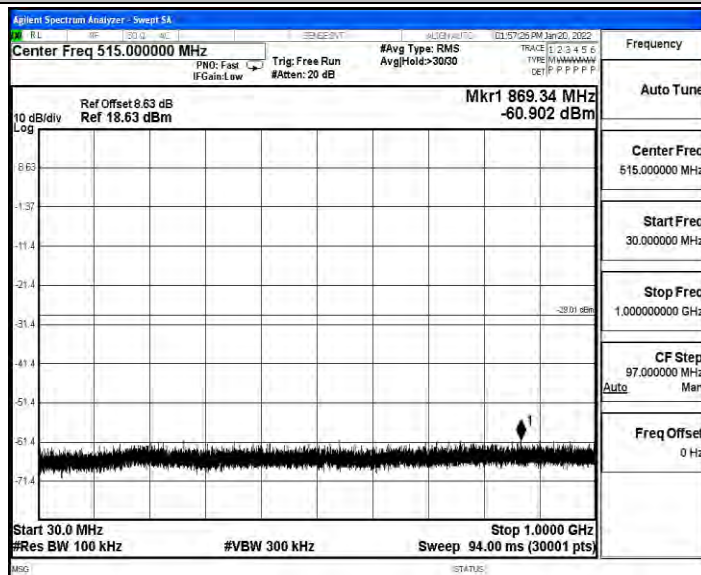
11N40SISO_Ant_2422_1000~26500



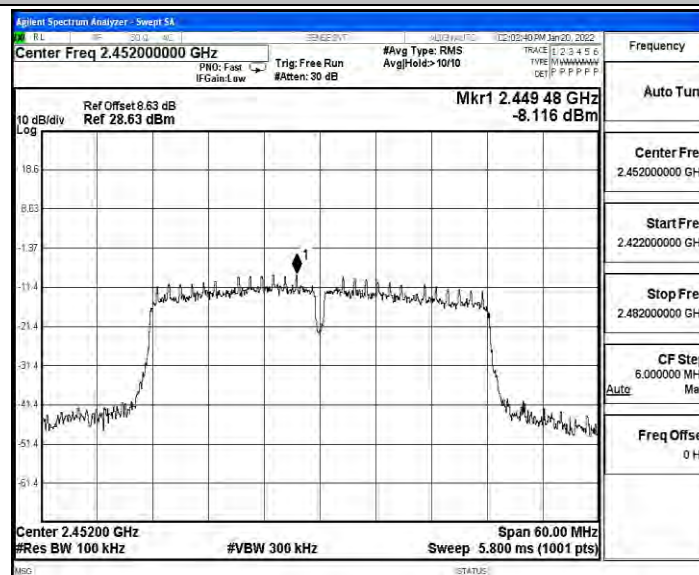
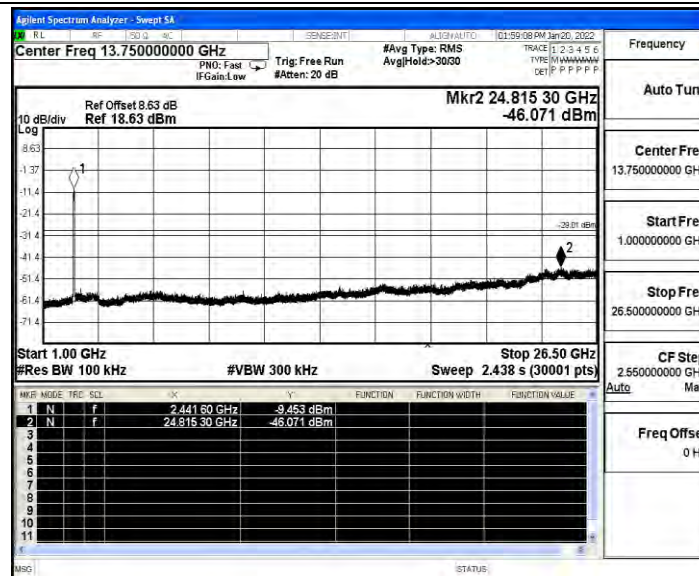
11N40SISO_Ant_2437_0~Reference

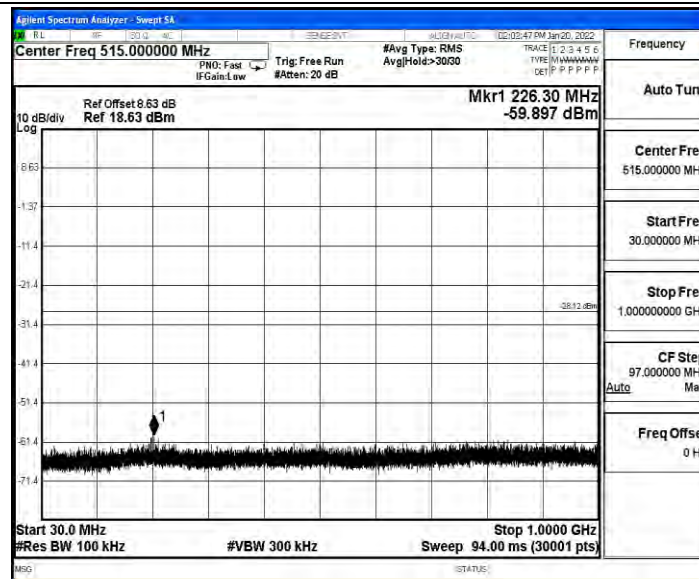


11N40SISO_Ant_2437_30~1000

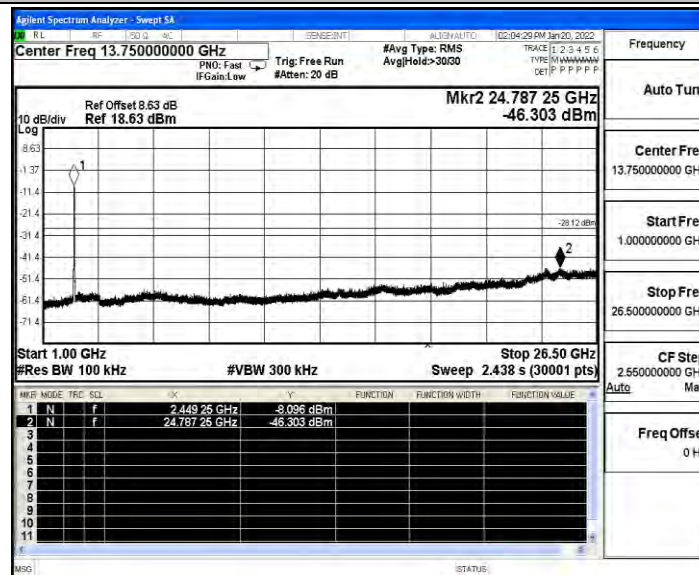


11N40SISO_Ant_2437_1000~26500





11N40SISO_Ant_2452_1000~26500





C.6 Duty Cycle

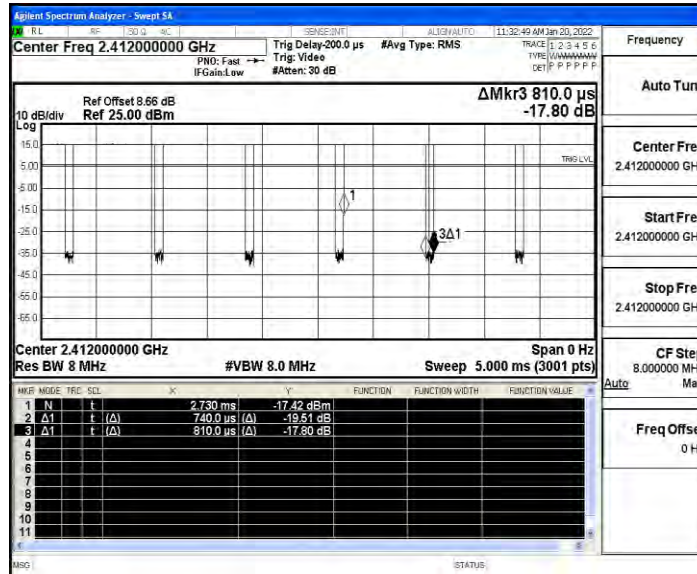
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant	2412	0.74	0.81	91.36	---	---
		2437	0.74	0.81	91.36	---	---
		2462	0.74	0.82	90.24	---	---
11G	Ant	2412	0.12	0.19	63.16	---	---
		2437	0.12	0.19	63.16	---	---
		2462	0.12	0.19	63.16	---	---
11N20SISO	Ant	2412	0.12	0.19	63.16	---	---
		2437	0.11	0.18	61.11	---	---
		2462	0.12	0.19	63.16	---	---
11N40SISO	Ant	2422	0.08	0.15	53.33	---	---
		2437	0.08	0.15	53.33	---	---
		2452	0.08	0.15	53.33	---	---

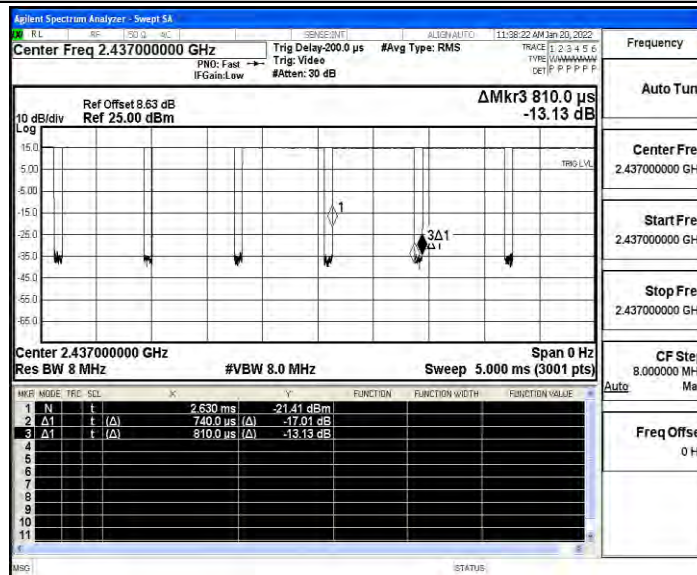


Test Graphs

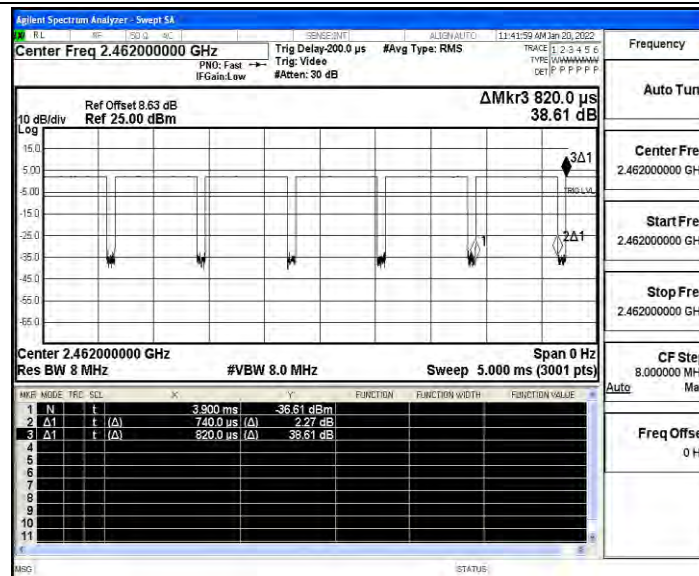
11B_Ant_2412



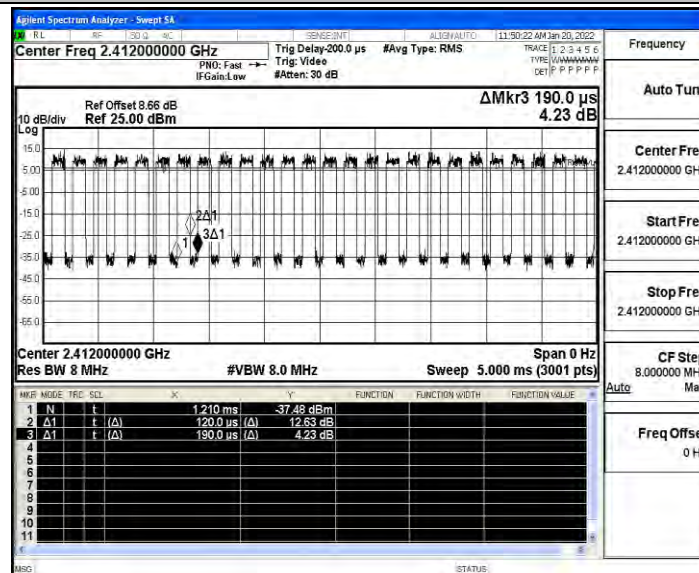
11B_Ant_2437



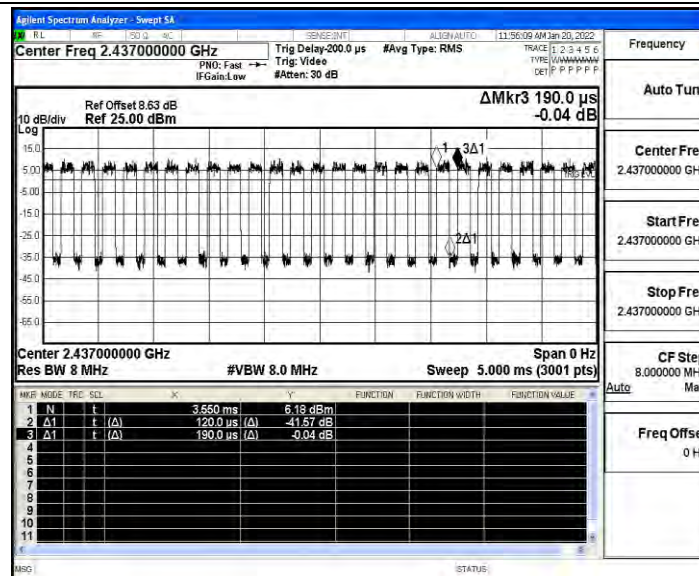
11B_Ant_2462



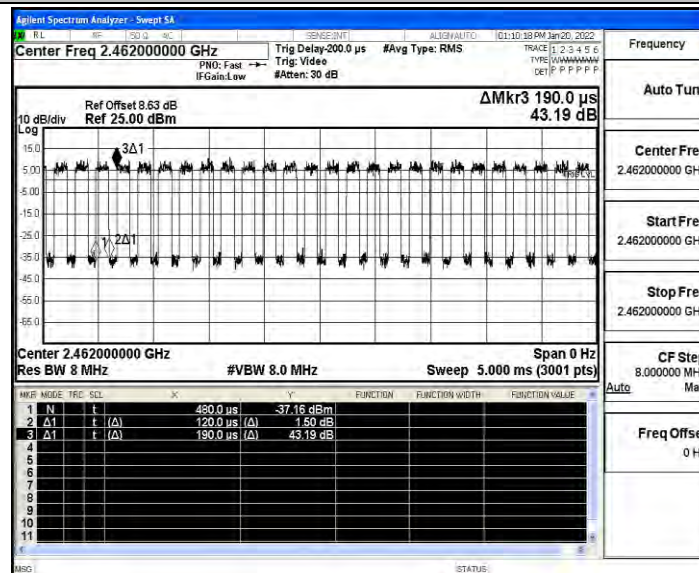
11G_Ant_2412



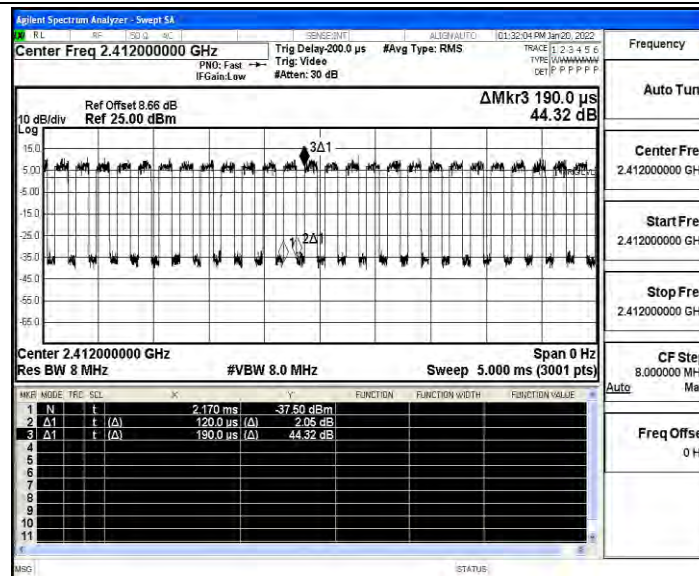
11G_Ant_2437



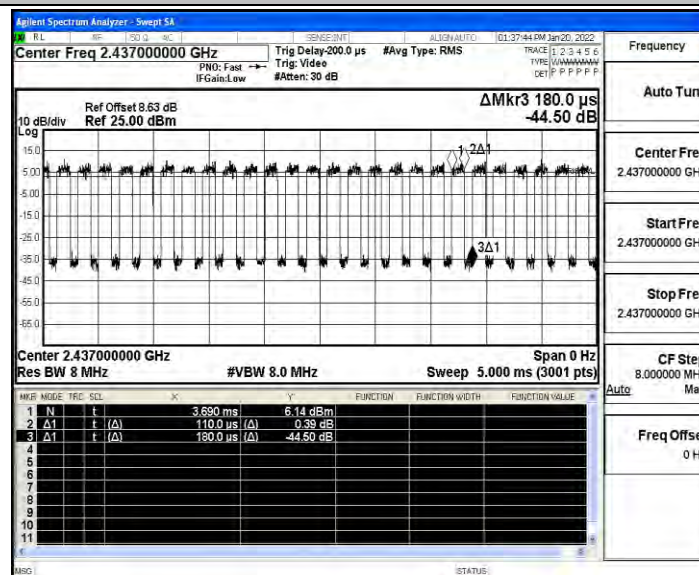
11G_Ant_2462



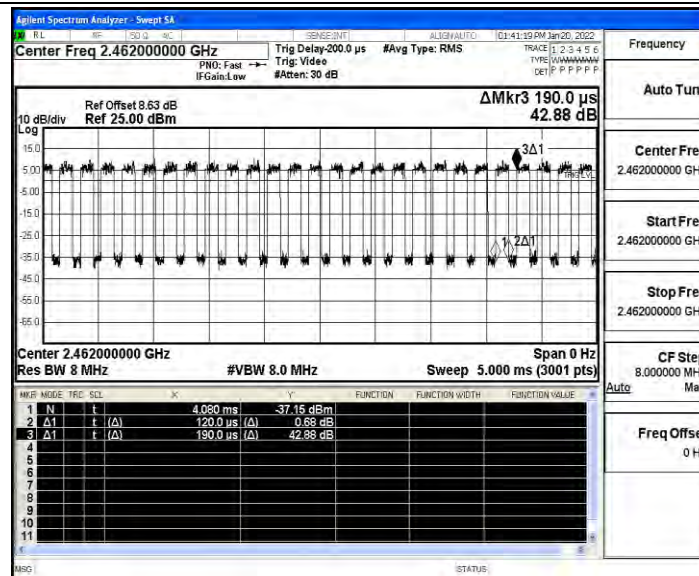
11N20SISO_Ant_2412



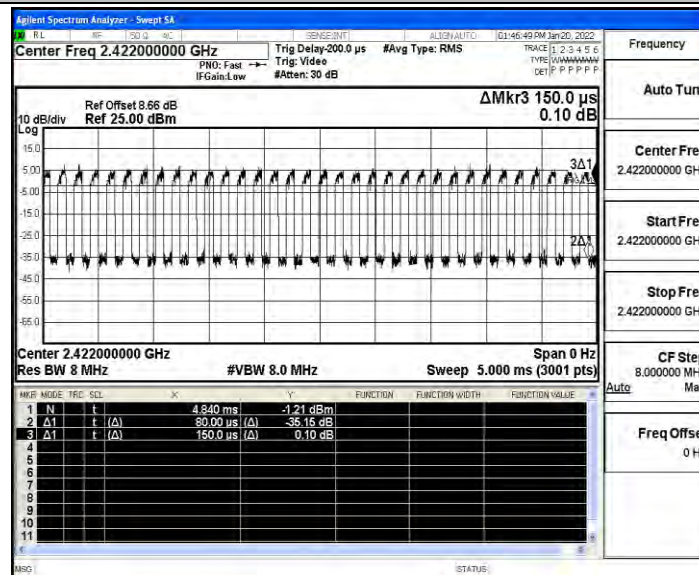
11N20SISO_Ant_2437



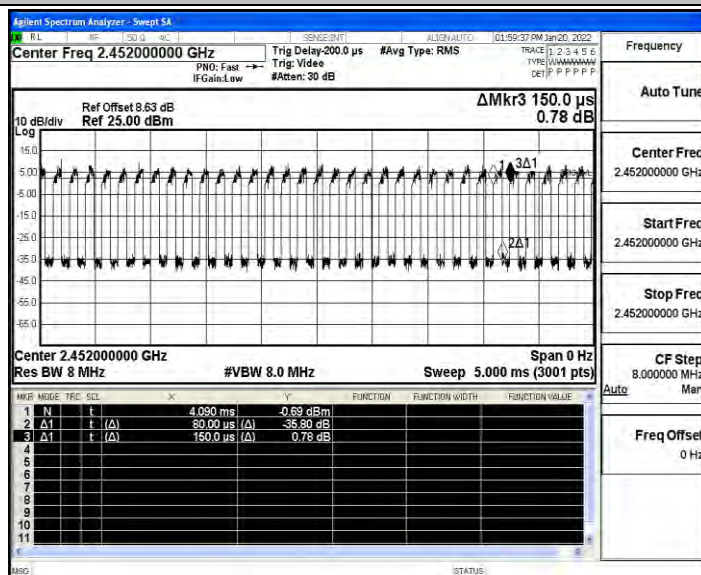
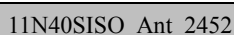
11N20SISO_Ant_2462



11N40SISO_Ant_2422



11N40SISO_Ant_2437





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	Ant	Low	2412	AV	2310.000	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2384.240	-47.12	≤-41.20	48.08	≤54	PASS
				AV	2390.000	-47.42	≤-41.20	47.78	≤54	PASS
				Peak	2310.000	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2383.460	-35.96	≤-21.20	59.24	≤74	PASS
				Peak	2390.000	-37.31	≤-21.20	57.89	≤74	PASS
		High	2462	AV	2483.500	-46.71	≤-41.20	48.49	≤54	PASS
				AV	2484.990	-46.49	≤-41.20	48.71	≤54	PASS
				AV	2500.000	-47.32	≤-41.20	47.88	≤54	PASS
				Peak	2483.500	-34.08	≤-21.20	61.12	≤74	PASS
				Peak	2484.440	-33.14	≤-21.20	62.06	≤74	PASS
				Peak	2500.000	-37.49	≤-21.20	57.71	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-46.72	≤-41.20	48.48	≤54	PASS
				AV	2389.960	-45.04	≤-41.20	50.16	≤54	PASS
				AV	2390.000	-45.04	≤-41.20	50.16	≤54	PASS
				Peak	2310.000	-38.39	≤-21.20	56.81	≤74	PASS
				Peak	2389.310	-33.3	≤-21.20	61.90	≤74	PASS
				Peak	2390.000	-35.53	≤-21.20	59.67	≤74	PASS
		High	2462	AV	2483.500	-43.24	≤-41.20	51.96	≤54	PASS
				AV	2484.330	-43.17	≤-41.20	52.03	≤54	PASS
				AV	2500.000	-45.56	≤-41.20	49.64	≤54	PASS
				Peak	2483.500	-30.87	≤-21.20	64.33	≤74	PASS
				Peak	2483.670	-30.96	≤-21.20	64.24	≤74	PASS
				Peak	2500.000	-36.41	≤-21.20	58.79	≤74	PASS
11N20SIS O	Ant	Low	2412	AV	2310.000	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2389.960	-44.14	≤-41.20	51.06	≤54	PASS
				AV	2390.000	-44.14	≤-41.20	51.06	≤54	PASS
				Peak	2310.000	-37.45	≤-21.20	57.75	≤74	PASS
				Peak	2389.830	-32.54	≤-21.20	62.66	≤74	PASS
				Peak	2390.000	-33.11	≤-21.20	62.09	≤74	PASS
		High	2462	AV	2483.500	-43.42	≤-41.20	51.78	≤54	PASS
				AV	2483.560	-43.07	≤-41.20	52.13	≤54	PASS
				AV	2500.000	-45.96	≤-41.20	49.24	≤54	PASS
				Peak	2483.500	-32.26	≤-21.20	62.94	≤74	PASS
				Peak	2483.670	-31.08	≤-21.20	64.12	≤74	PASS
				Peak	2500.000	-36.45	≤-21.20	58.75	≤74	PASS



11N40SIS O	Ant	Low	2422	AV	2310.000	-45.82	≤ -41.20	49.38	≤ 54	PASS
				AV	2387.880	-42.56	≤ -41.20	52.64	≤ 54	PASS
				AV	2390.000	-44.13	≤ -41.20	51.07	≤ 54	PASS
				Peak	2310.000	-37.87	≤ -21.20	57.33	≤ 74	PASS
				Peak	2385.670	-30.08	≤ -21.20	65.12	≤ 74	PASS
				Peak	2390.000	-33.4	≤ -21.20	61.80	≤ 74	PASS
		High	2452	AV	2483.500	-43.14	≤ -41.20	52.06	≤ 54	PASS
				AV	2486.420	-43.03	≤ -41.20	52.17	≤ 54	PASS
				AV	2500.000	-45.19	≤ -41.20	50.01	≤ 54	PASS
				Peak	2483.500	-33.75	≤ -21.20	61.45	≤ 74	PASS
				Peak	2484.880	-31.9	≤ -21.20	63.30	≤ 74	PASS
				Peak	2500.000	-37.68	≤ -21.20	57.52	≤ 74	PASS

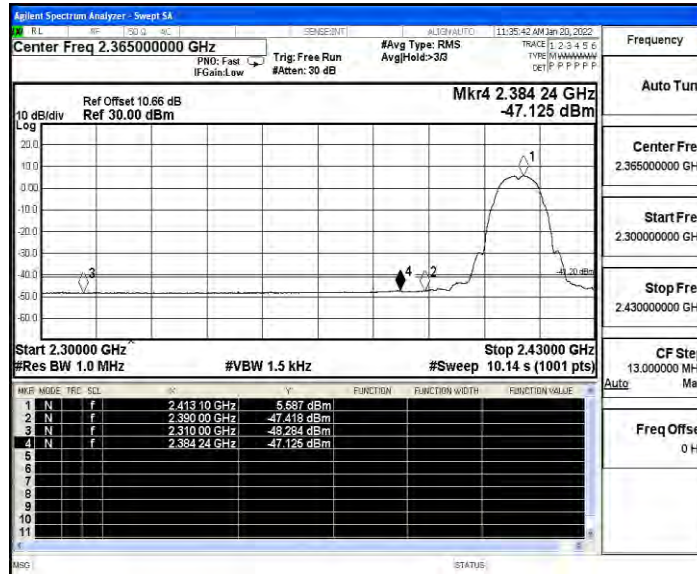
Note:

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.

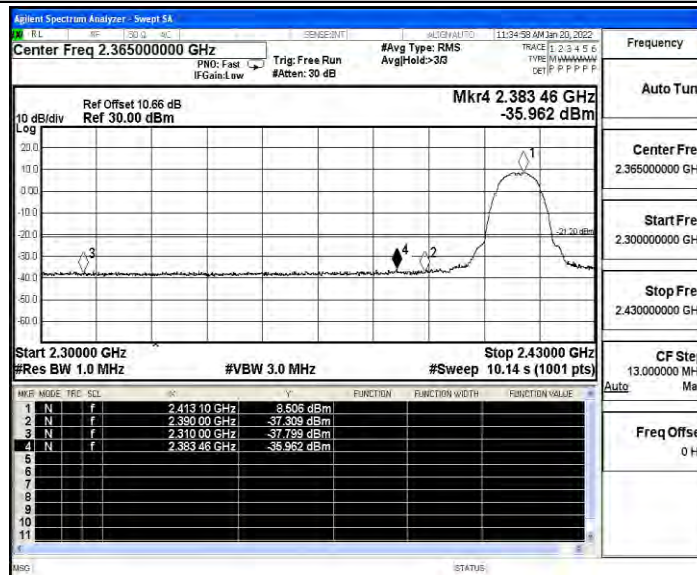


Test Graphs

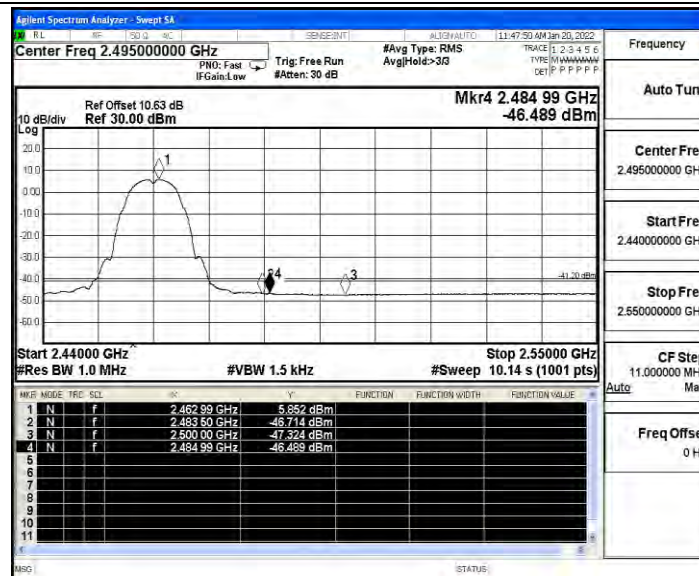
11B_Ant_Low_2412_AV



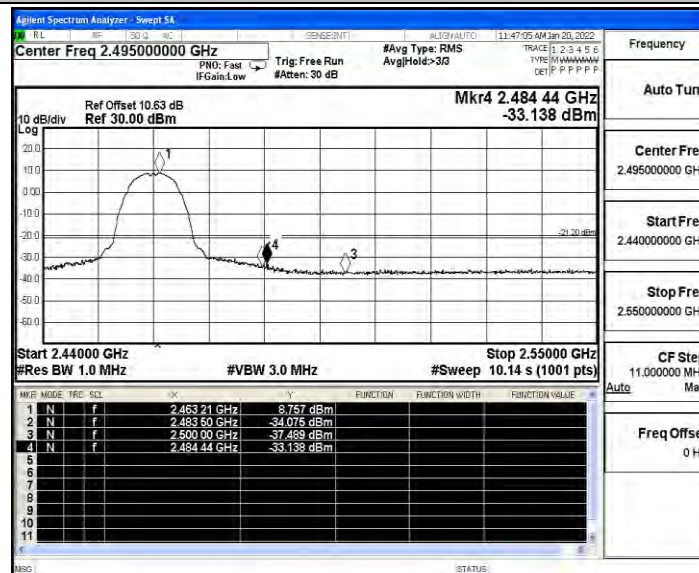
11B_Ant_Low_2412_Peak



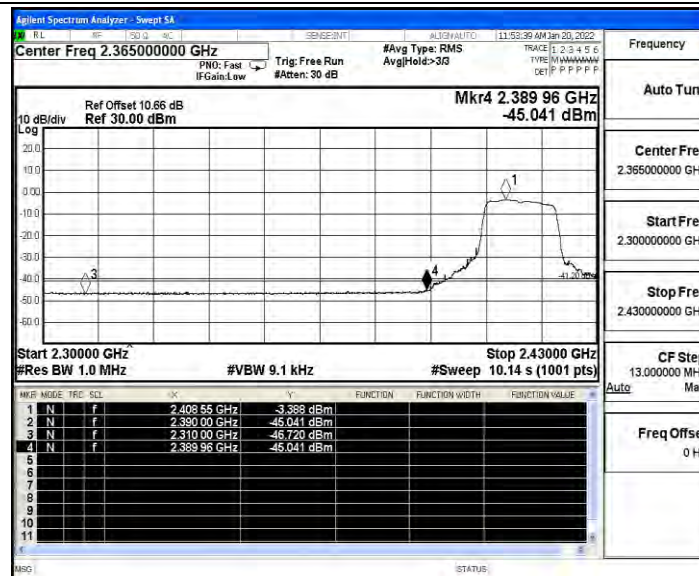
11B_Ant_High_2462_AV



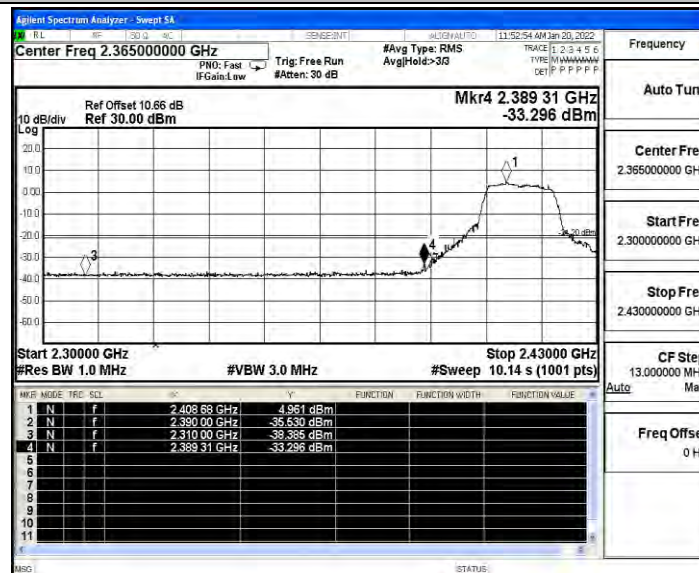
11B_Ant_High_2462_Peak



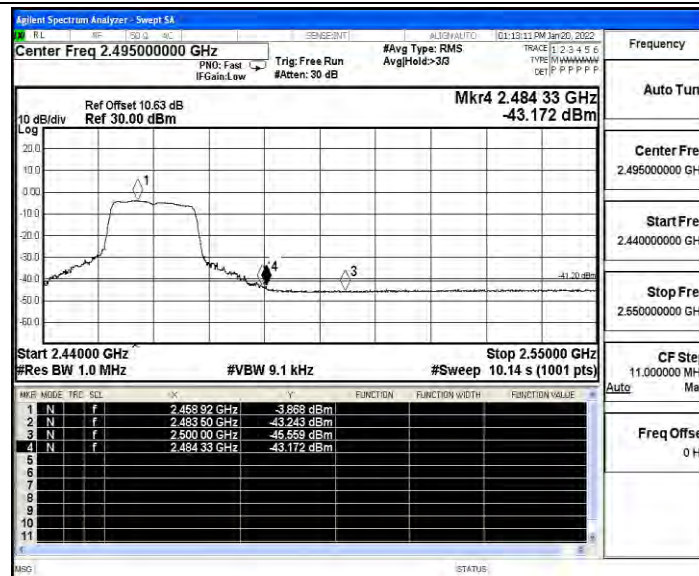
11G_Ant_Low_2412_AV



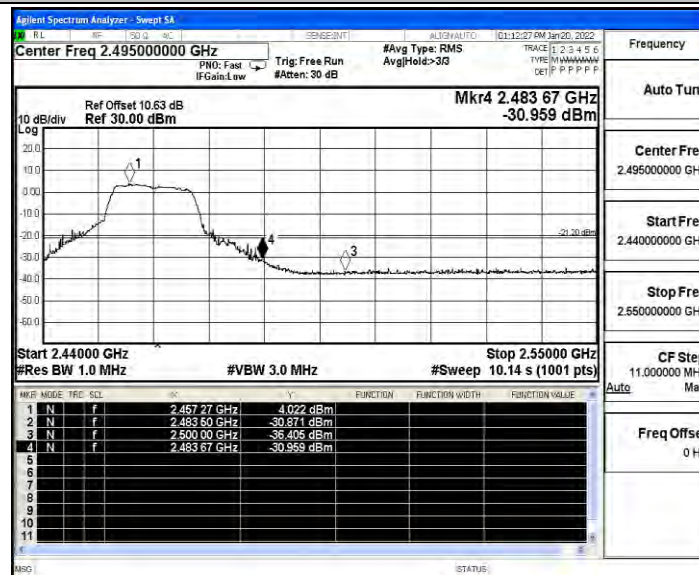
11G_Ant_Low_2412_Peak



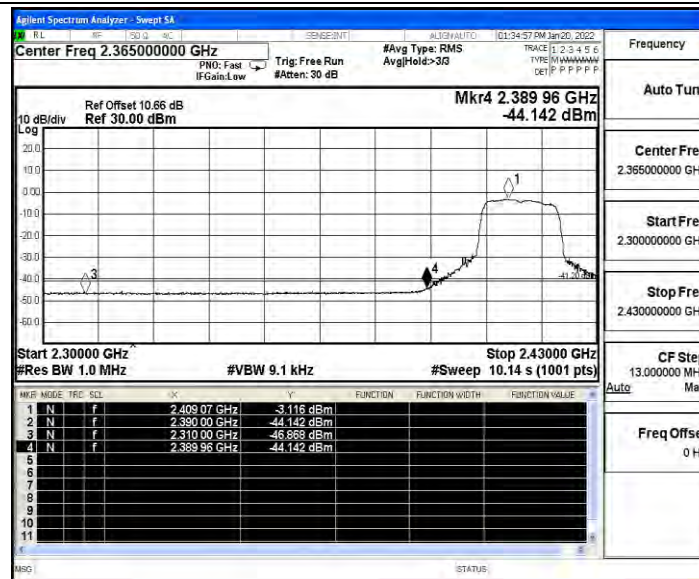
11G_Ant_High_2462_AV



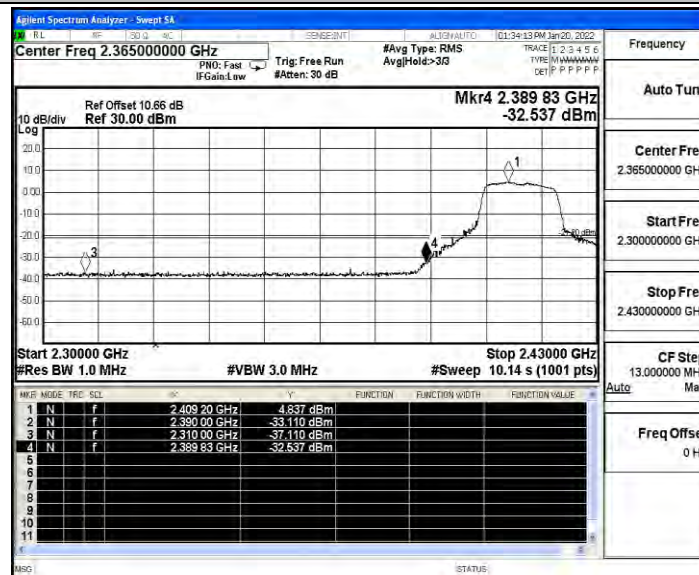
11G_Ant_High_2462_Peak



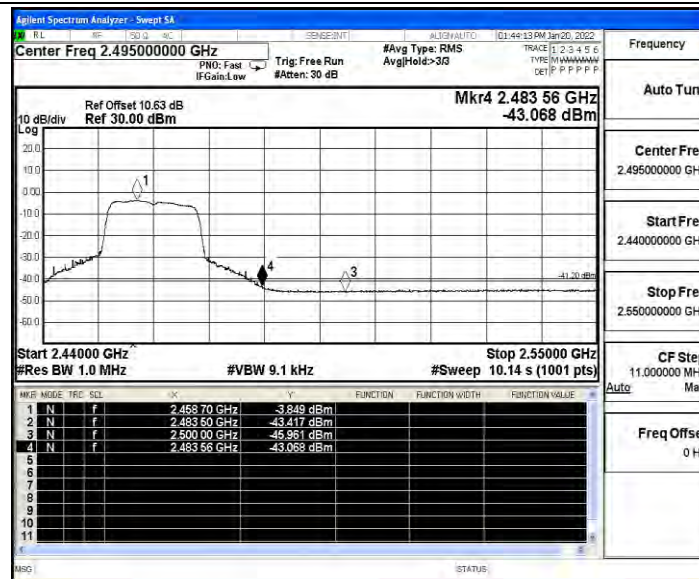
11N20SISO_Ant_Low_2412_AV



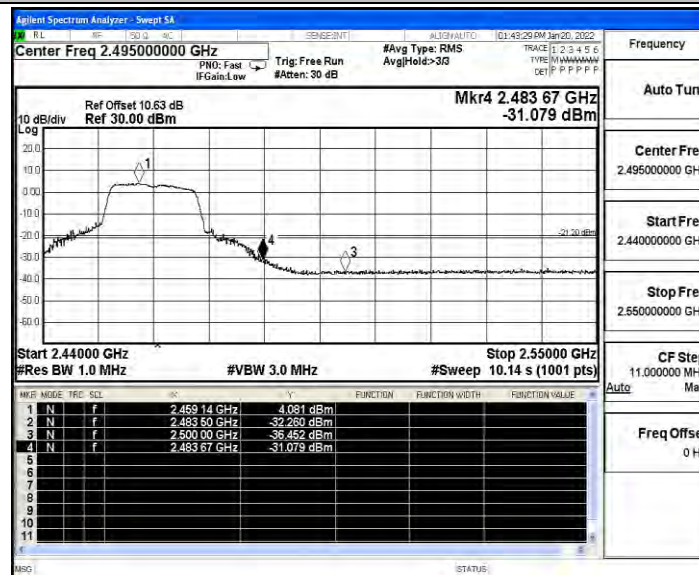
11N20SISO_Ant_Low_2412_Peak



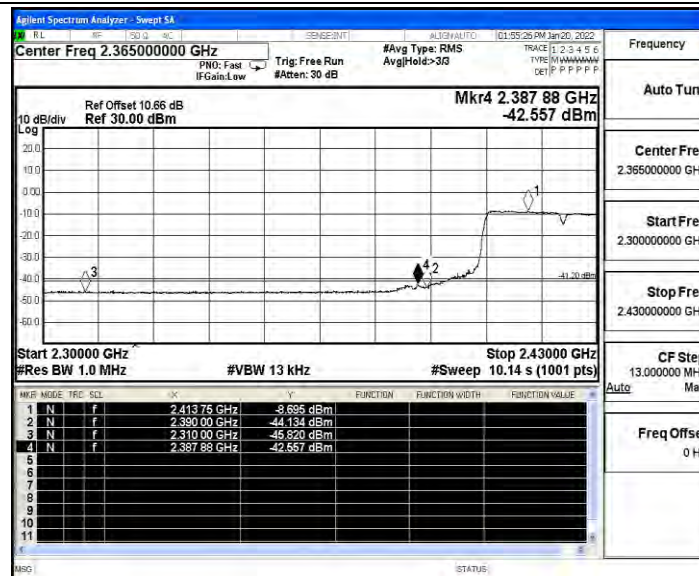
11N20SISO_Ant_High_2462_AV



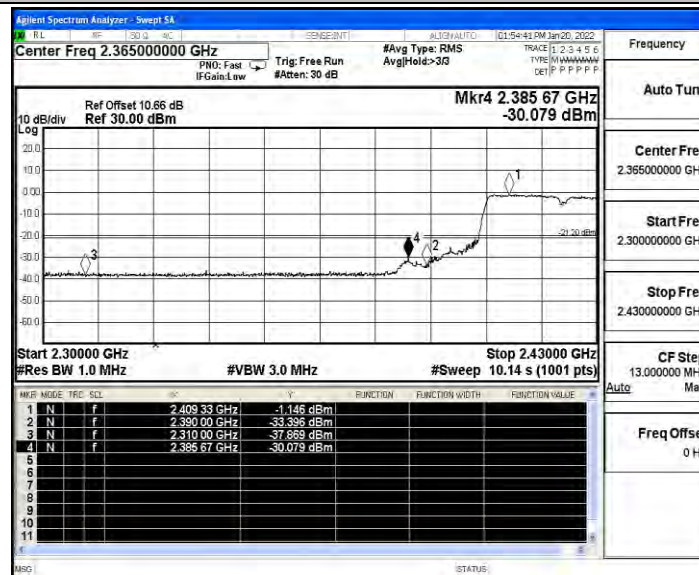
11N20SISO_Ant_High_2462_Peak



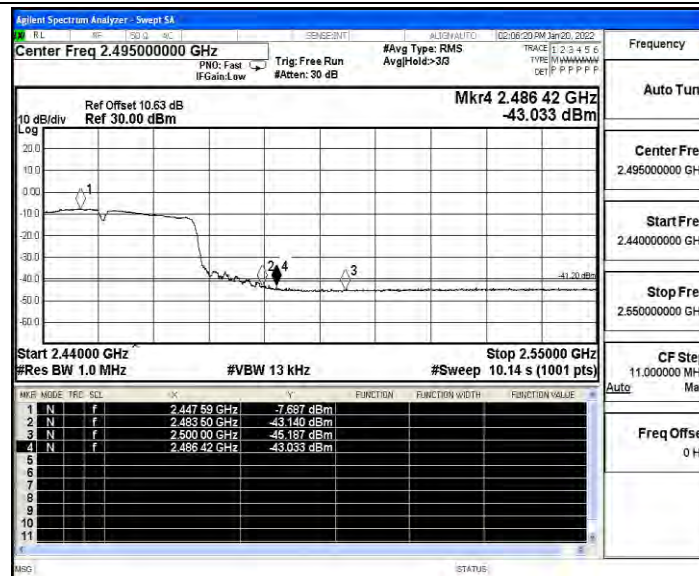
11N40SISO_Ant_Low_2422_AV



11N40SISO_Ant_Low_2422_Peak



11N40SISO_Ant_High_2452_AV



11N40SISO_Ant_High_2452_Peak

