



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: MBW100

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
	Joker.Hu
Supervised by:	Ling Zhu
	Ling.zhu





C.1 DTS Bandwidth

Test Result

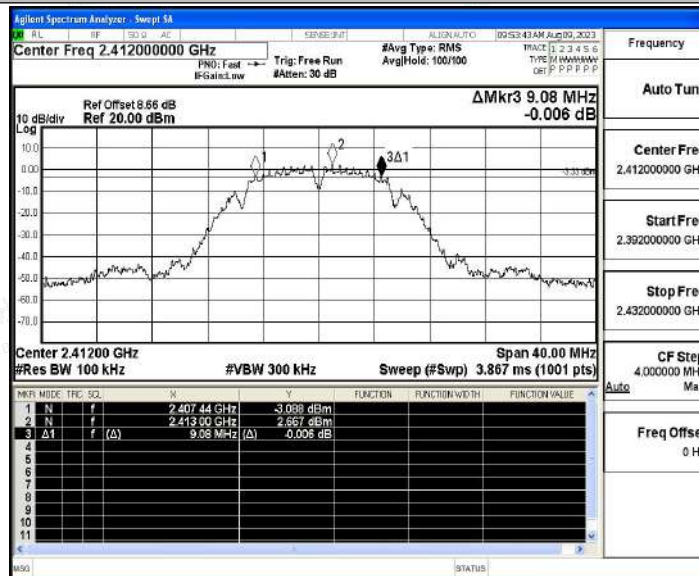
TestMode	Antenna	Frequency (MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	13.880	2405.680	2419.560	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.520	2453.240	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.160	2439.920	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS



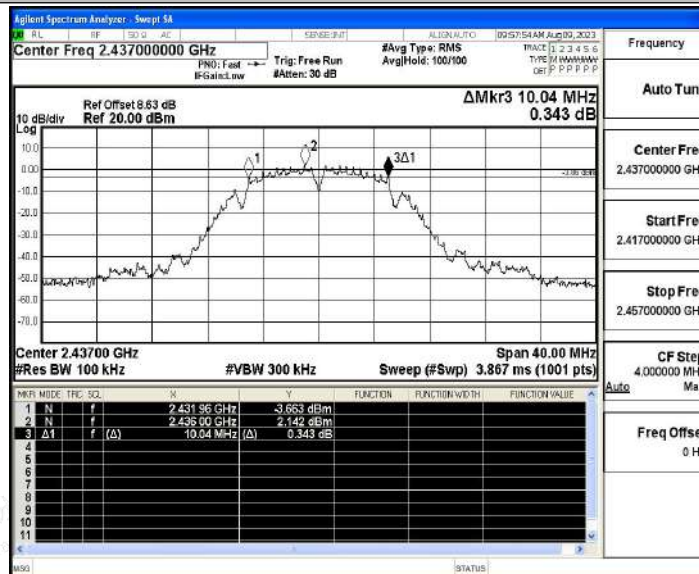


Test Graphs

11B_Ant1_2412

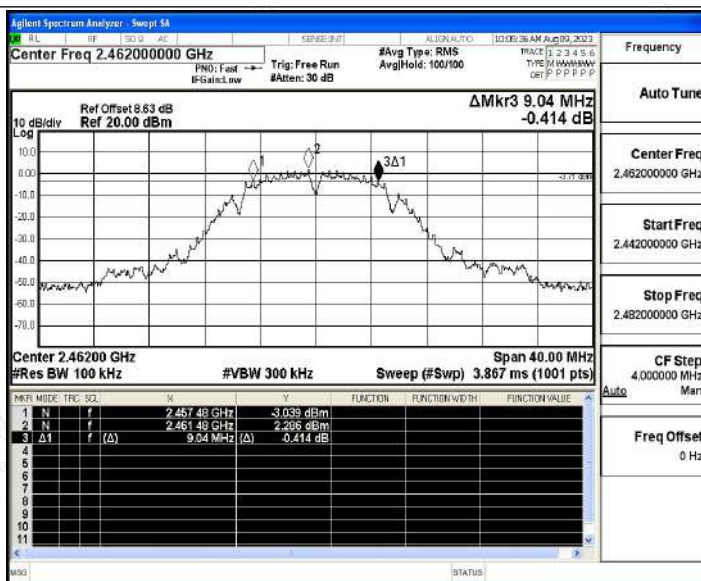


11B_Ant1_2437

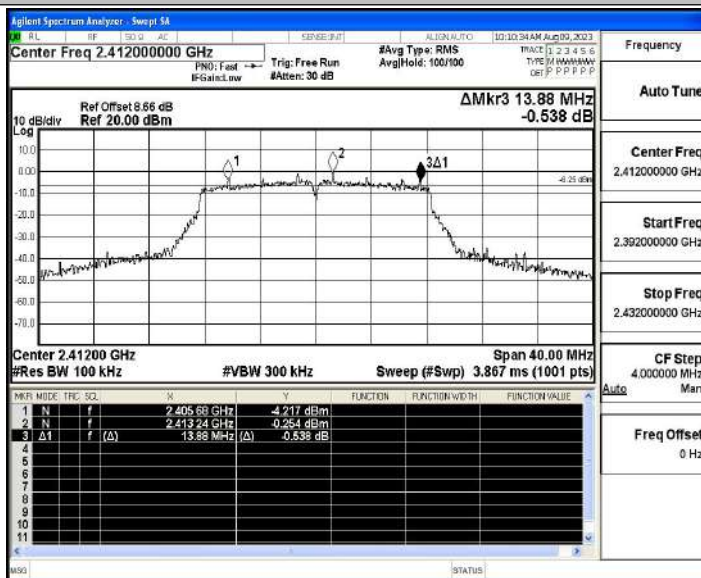


11B_Ant1_2462



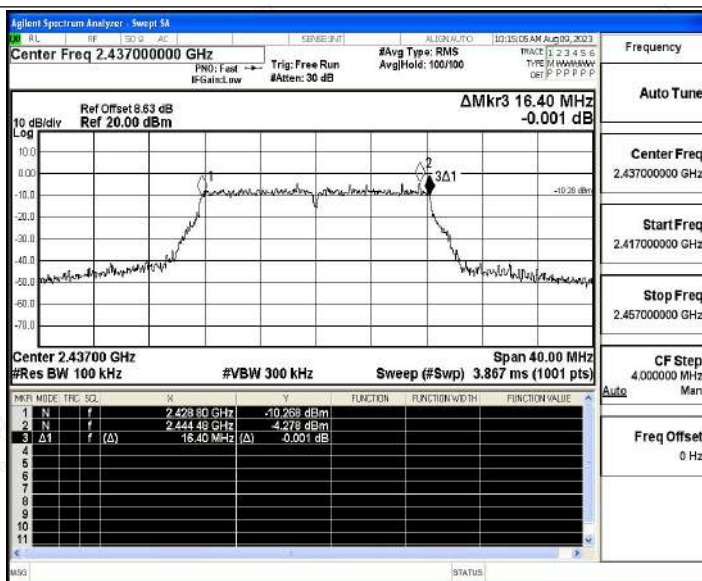


11G_Ant1_2412

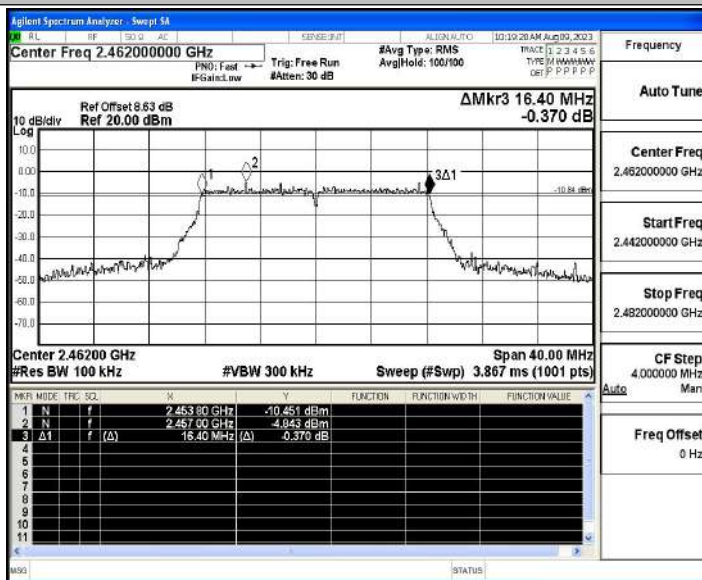


11G_Ant1_2437



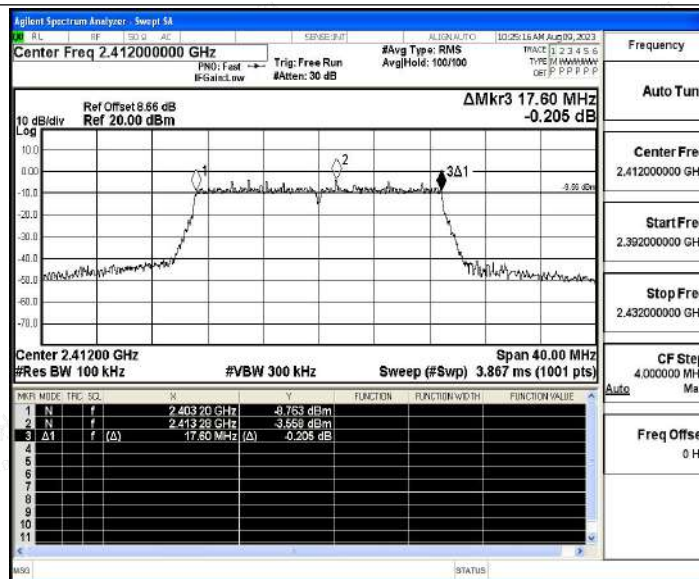


11G_Ant1_2462

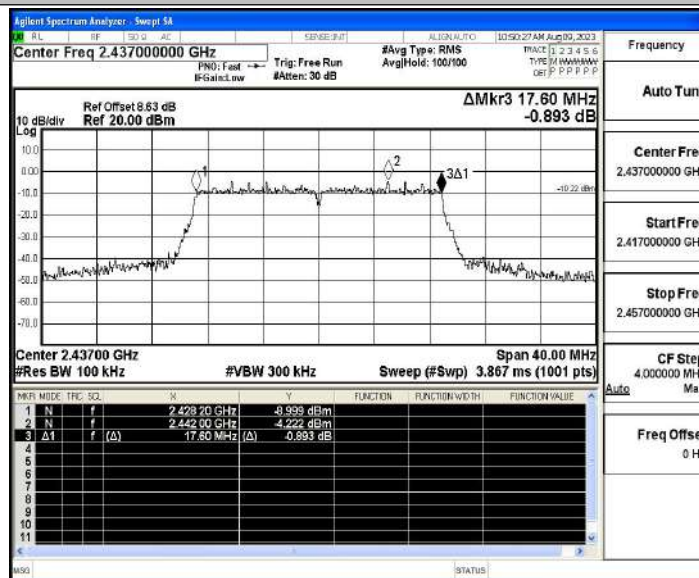


11N20SISO_Ant1_2412



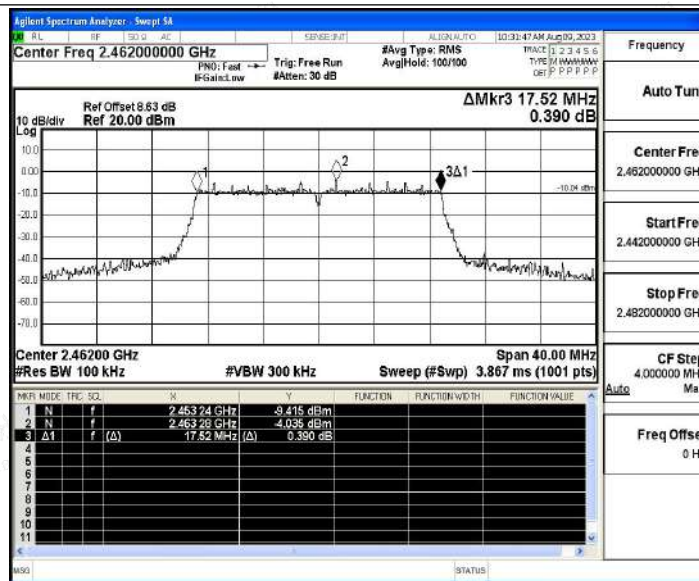


11N20SISO_Ant1_2437

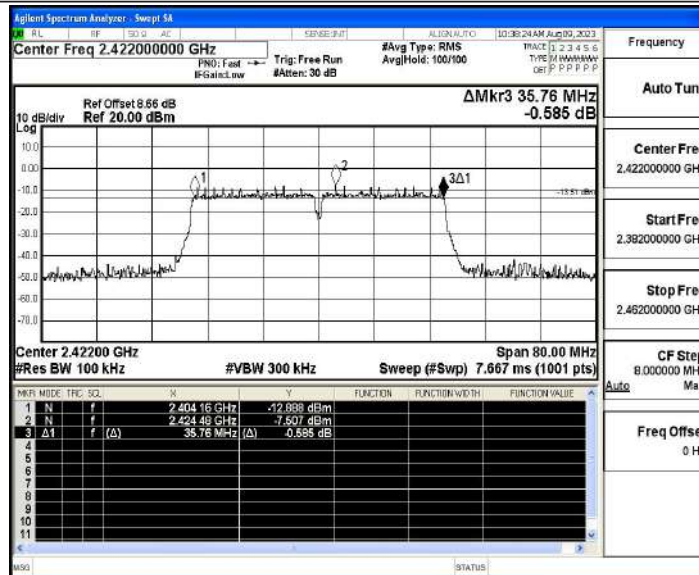


11N20SISO_Ant1_2462



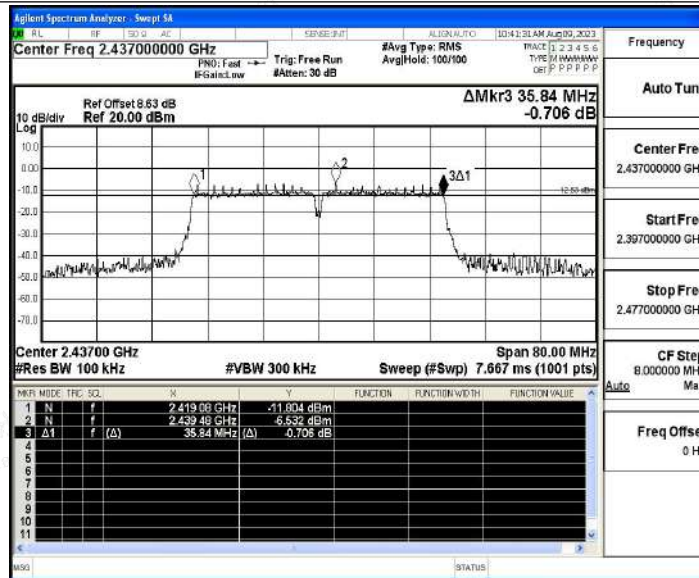


11N40SISO_Ant1_2422

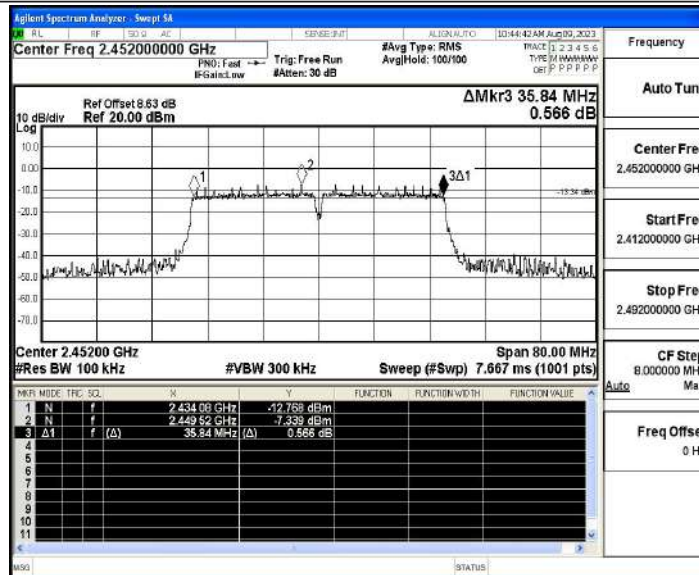


11N40SISO_Ant1_2437





11N40SIS0_Ant1_2452





C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency (MHz)	Conducted Power (dBm)	Limit[dBm]	Verdict
11B	Ant1	2412	14.28	30	Pass
		2437	14.13	30	Pass
		2462	13.90	30	Pass
11G	Ant1	2412	13.57	30	Pass
		2437	13.76	30	Pass
		2462	13.30	30	Pass
11N20SISO	Ant1	2412	14.26	30	Pass
		2437	12.07	30	Pass
		2462	13.34	30	Pass
11N40SISO	Ant1	2422	12.94	30	Pass
		2437	13.75	30	Pass
		2452	13.06	30	Pass





C.3 Maximum power spectral density

Test Result

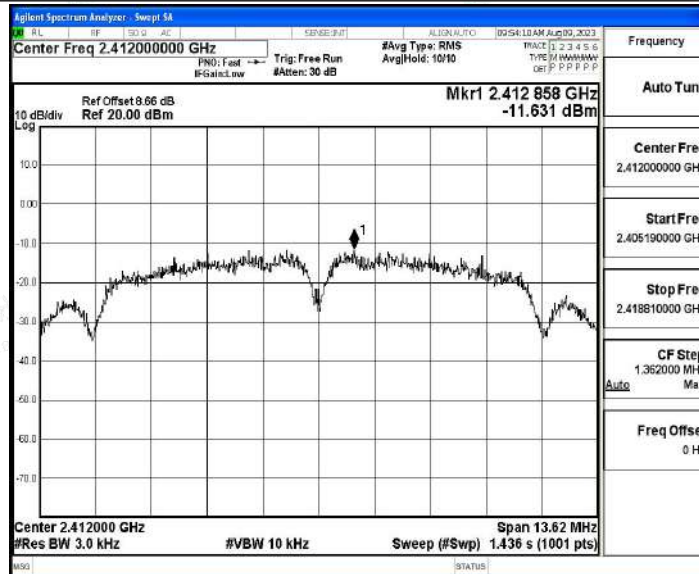
TestMode	Antenna	Frequency (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-11.63	≤8.00	PASS
		2437	-9.8	≤8.00	PASS
		2462	-11.82	≤8.00	PASS
11G	Ant1	2412	-17.45	≤8.00	PASS
		2437	-16.5	≤8.00	PASS
		2462	-18.03	≤8.00	PASS
11N20SISO	Ant1	2412	-17.33	≤8.00	PASS
		2437	-19.7	≤8.00	PASS
		2462	-18.07	≤8.00	PASS
11N40SISO	Ant1	2422	-21.62	≤8.00	PASS
		2437	-20.87	≤8.00	PASS
		2452	-21.39	≤8.00	PASS



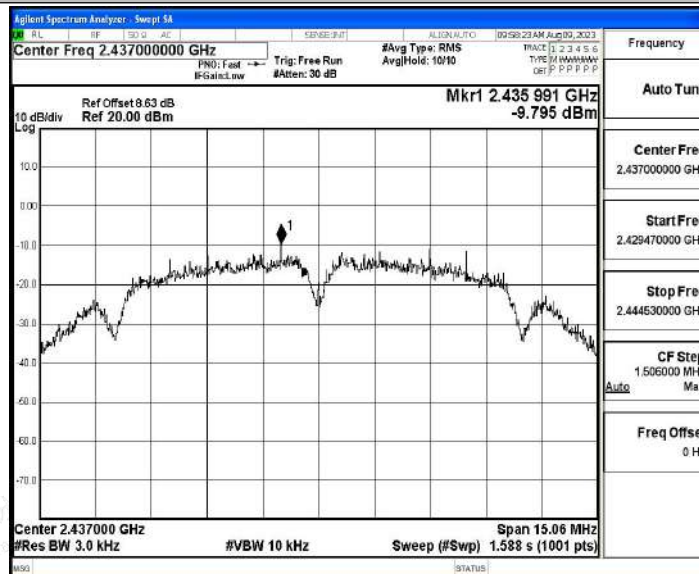


Test Graphs

11B_Ant1_2412

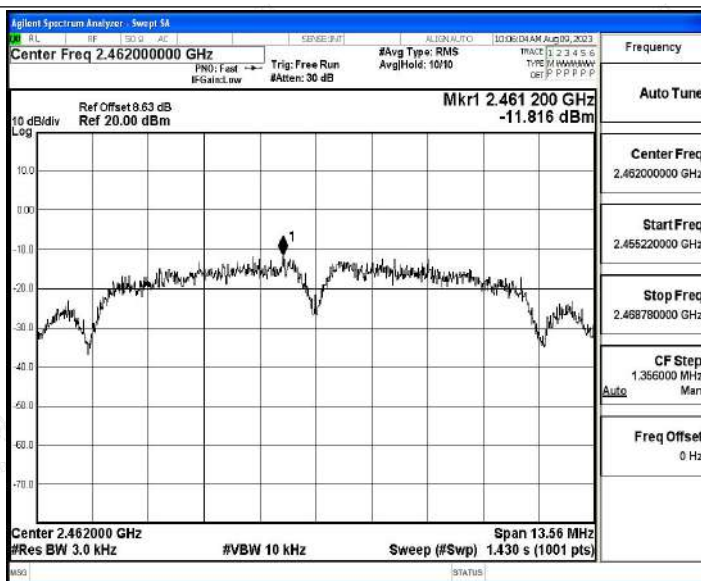


11B_Ant1_2437

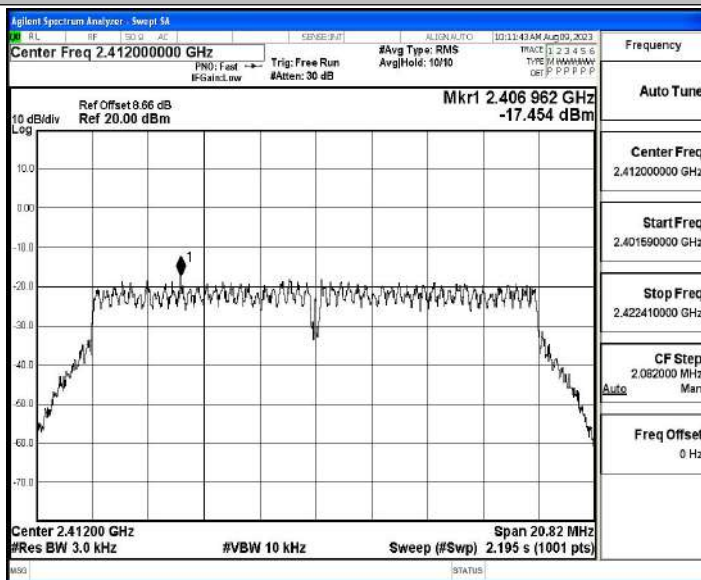


11B_Ant1_2462



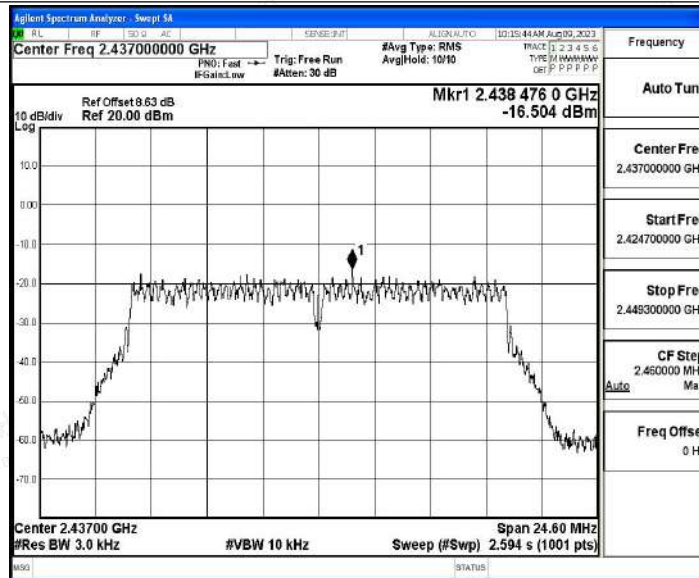


11G_Ant1_2412

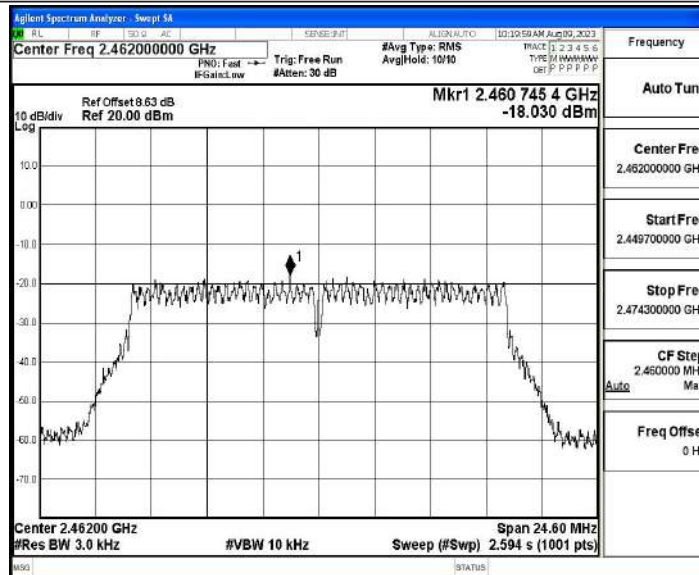


11G_Ant1_2437



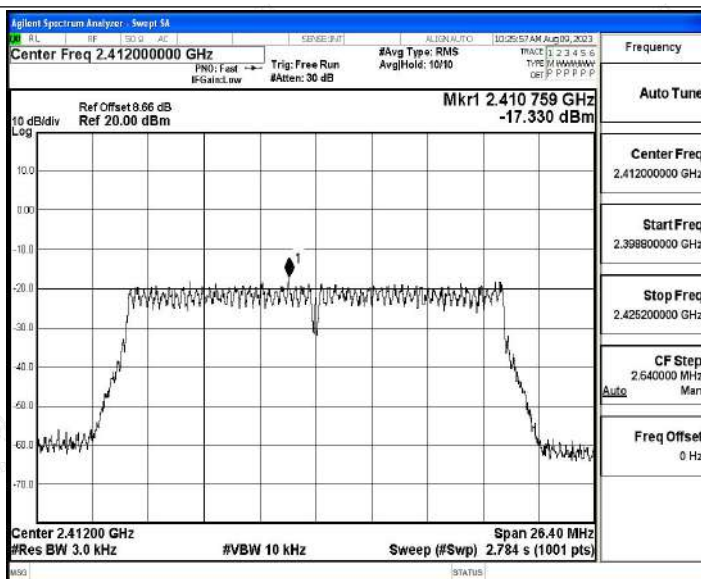


11G_Ant1_2462

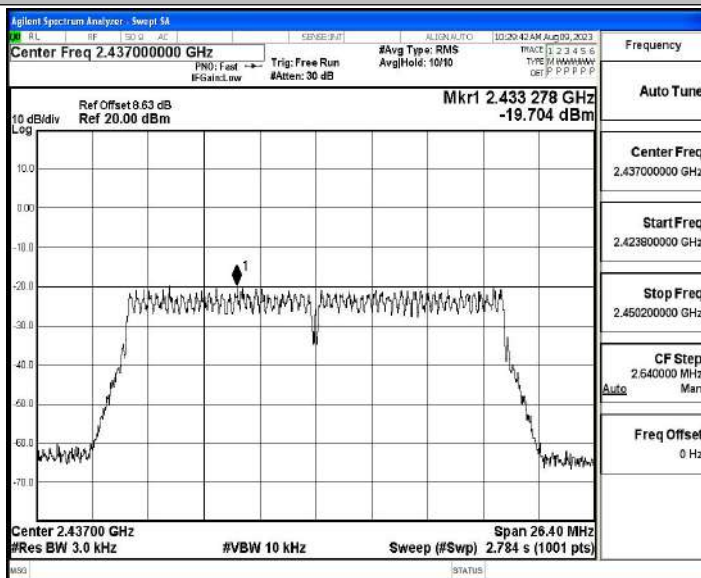


11N20SISO_Ant1_2412



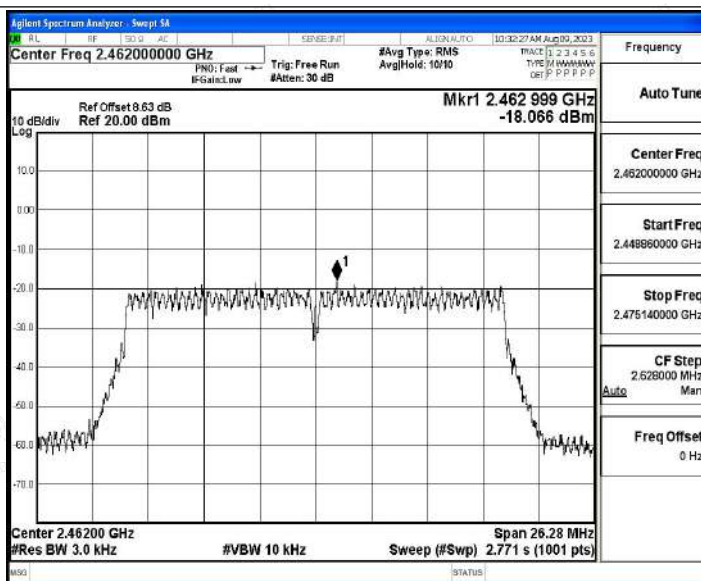


11N20SISO_Ant1_2437

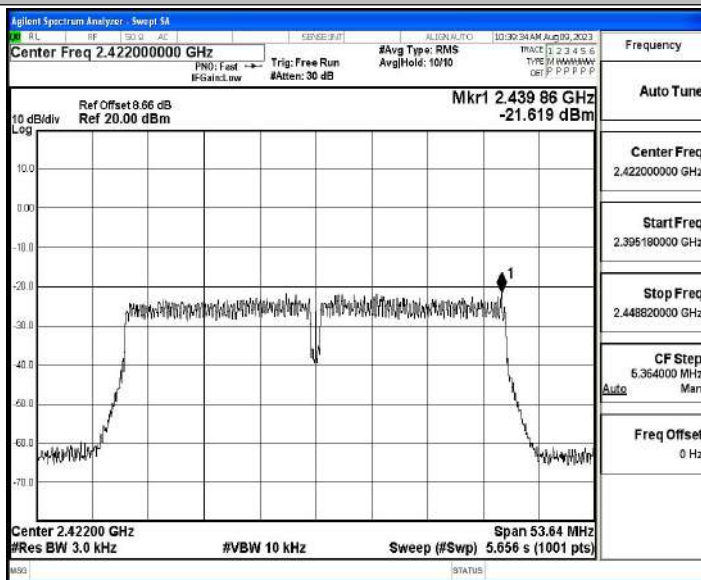


11N20SISO_Ant1_2462



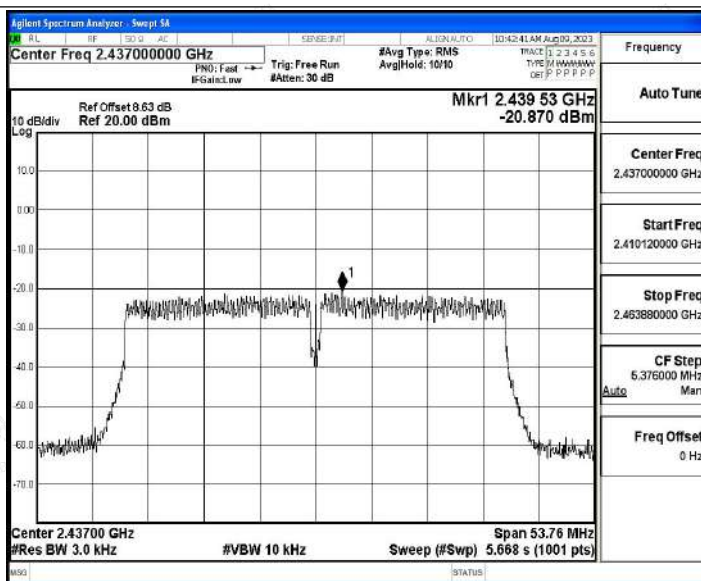


11N40SISO_Ant1_2422

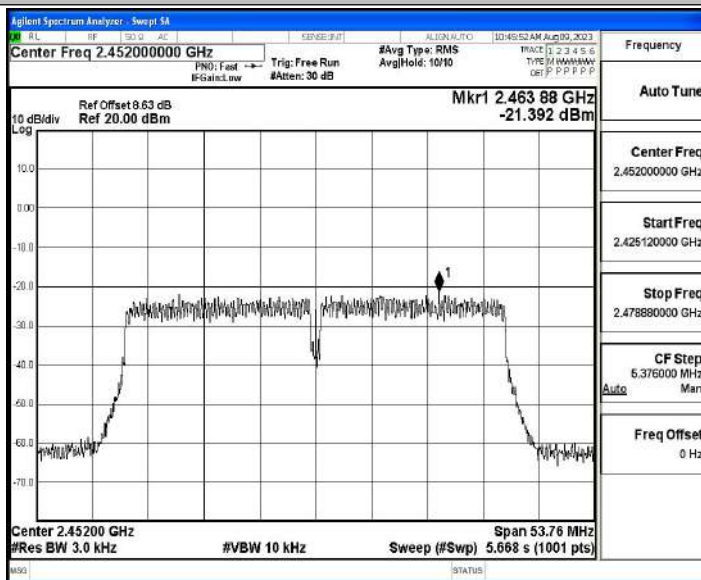


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452



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C.4 Band edge measurements

Test Result

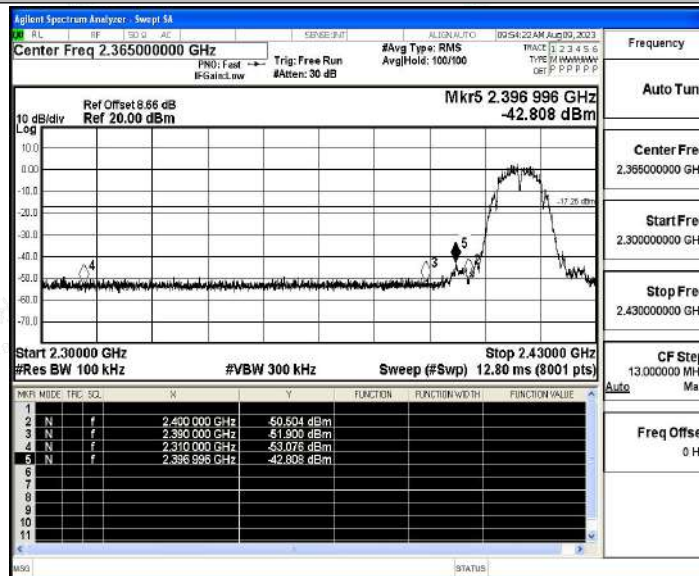
TestMode	Antenna	ChName	Frequency (MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.74	-42.81	≤ -17.26	PASS
		High	2462	1.87	-48.5	≤ -18.13	PASS
11G	Ant1	Low	2412	-4.50	-43.57	≤ -24.5	PASS
		High	2462	-4.97	-48.4	≤ -24.97	PASS
11N20SISO	Ant1	Low	2412	-3.58	-40.04	≤ -23.58	PASS
		High	2462	-4.69	-47.42	≤ -24.69	PASS
11N40SISO	Ant1	Low	2422	-7.37	-42.62	≤ -27.37	PASS
		High	2452	-7.24	-41.77	≤ -27.24	PASS



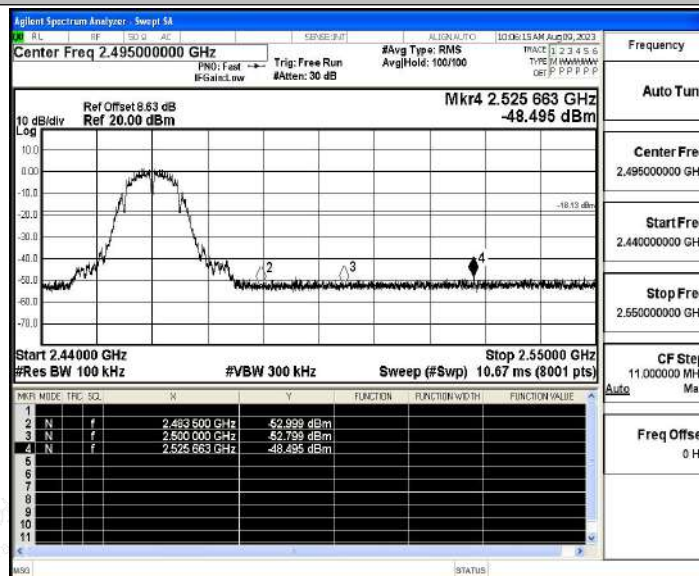


Test Graphs

11B_Ant1_Low_2412

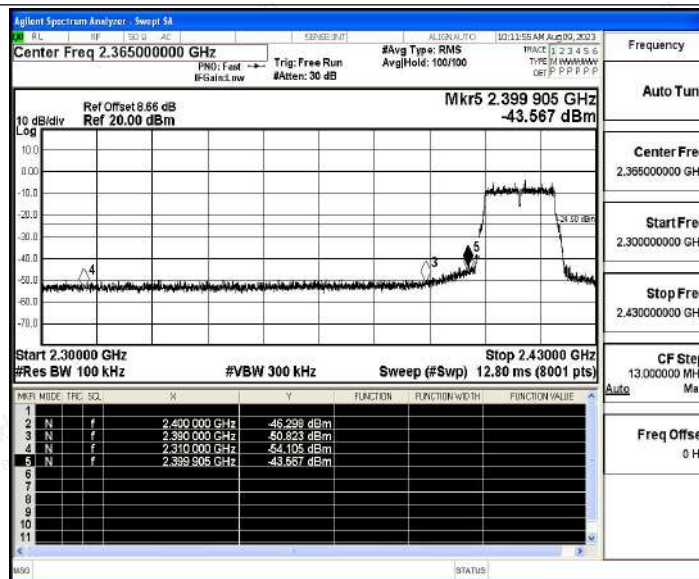


11B_Ant1_High_2462

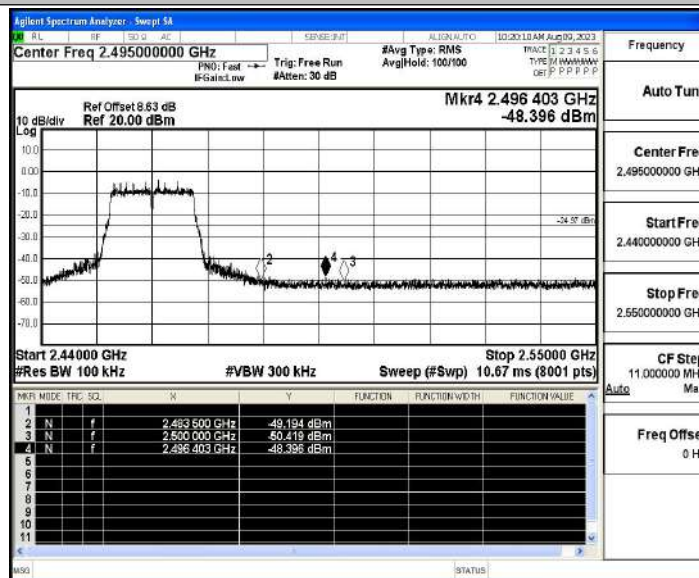


11G_Ant1_Low_2412



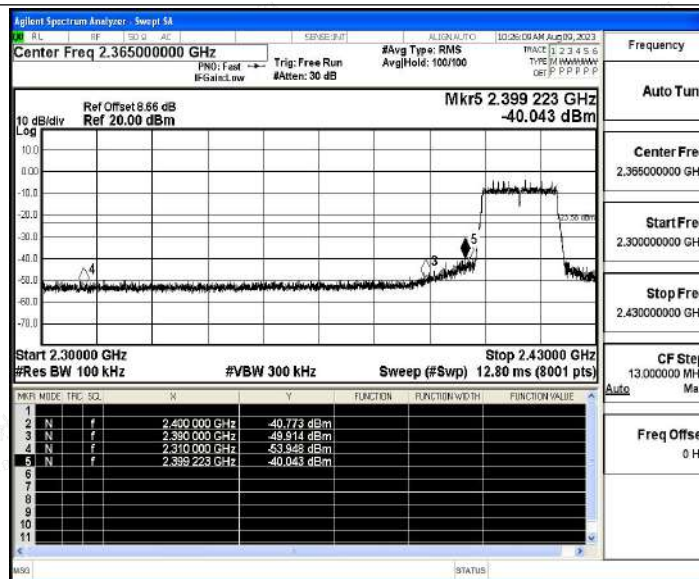


11G_Ant1_High_2462

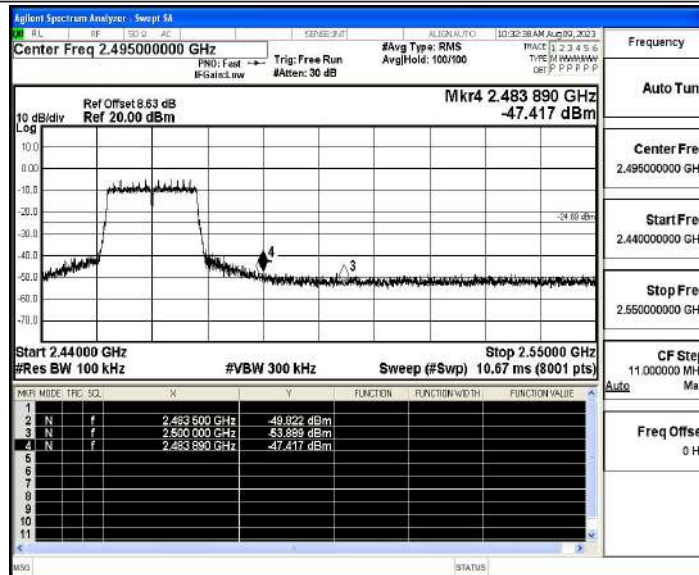


11N20SISO_Ant1_Low_2412



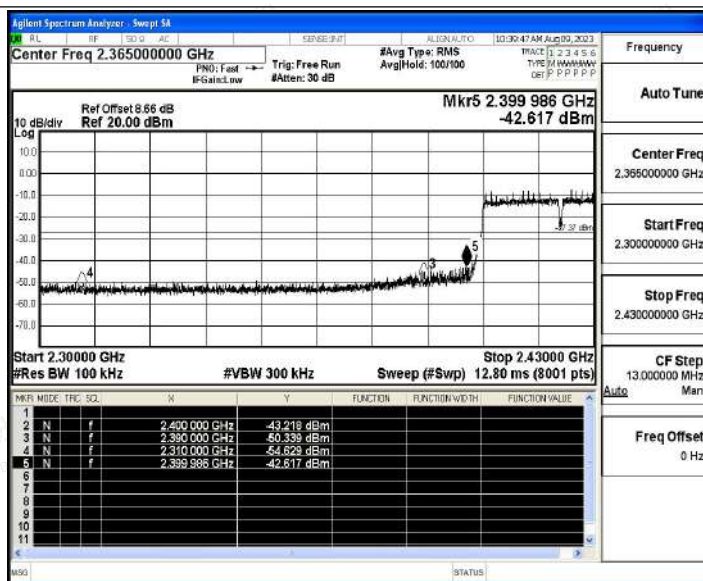


11N20SISO_Ant1_High_2462

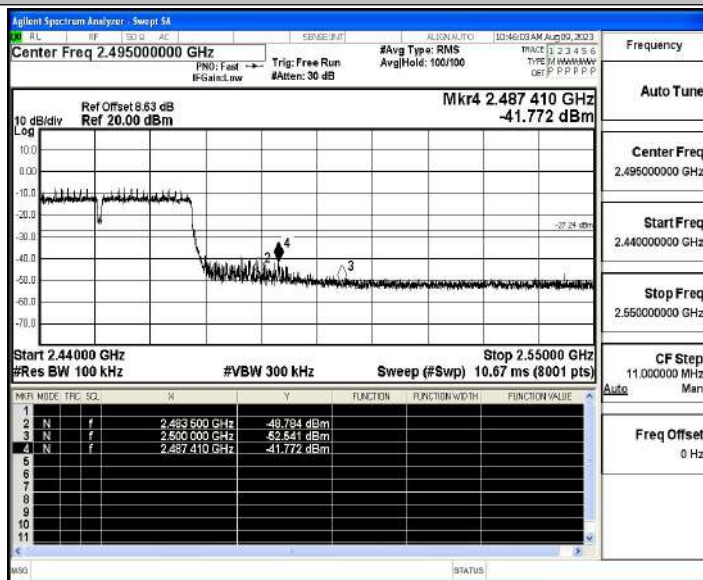


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency (MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	2.74	-60.93	≤ -17.26	PASS
			1000~26500	2.74	-46.73	≤ -17.26	PASS
		2437	30~1000	2.26	-61.14	≤ -17.74	PASS
			1000~26500	2.26	-46.59	≤ -17.74	PASS
		2462	30~1000	1.87	-61.67	≤ -18.13	PASS
			1000~26500	1.87	-46.2	≤ -18.13	PASS
11G	Ant1	2412	30~1000	-4.50	-61.3	≤ -24.5	PASS
			1000~26500	-4.50	-46.86	≤ -24.5	PASS
		2437	30~1000	-4.12	-60.17	≤ -24.12	PASS
			1000~26500	-4.12	-46.91	≤ -24.12	PASS
		2462	30~1000	-4.97	-61.57	≤ -24.97	PASS
			1000~26500	-4.97	-46.73	≤ -24.97	PASS
11N20SISO	Ant1	2412	30~1000	-3.58	-61.52	≤ -23.58	PASS
			1000~26500	-3.58	-46.61	≤ -23.58	PASS
		2437	30~1000	-5.90	-60.53	≤ -25.9	PASS
			1000~26500	-5.90	-46.31	≤ -25.9	PASS
		2462	30~1000	-4.69	-60.61	≤ -24.69	PASS
			1000~26500	-4.69	-46.83	≤ -24.69	PASS
11N40SISO	Ant1	2422	30~1000	-7.37	-60.41	≤ -27.37	PASS
			1000~26500	-7.37	-47.18	≤ -27.37	PASS
		2437	30~1000	-7.02	-61.65	≤ -27.02	PASS
			1000~26500	-7.02	-47.15	≤ -27.02	PASS
		2452	30~1000	-7.24	-61.6	≤ -27.24	PASS
			1000~26500	-7.24	-46.97	≤ -27.24	PASS



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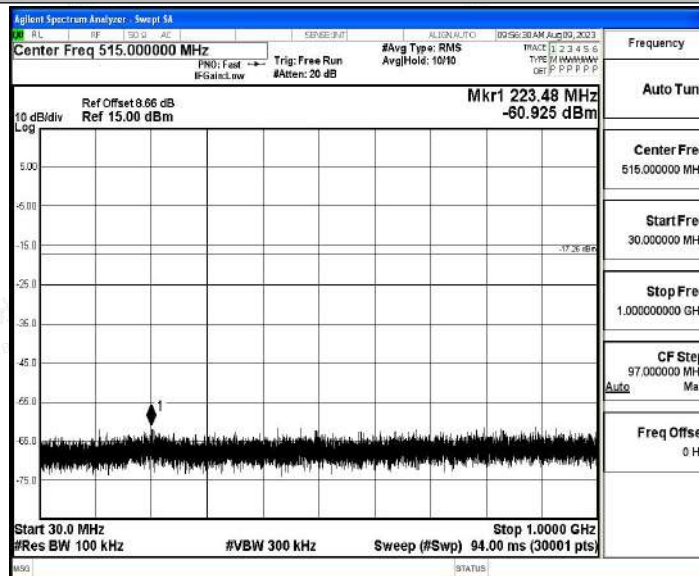
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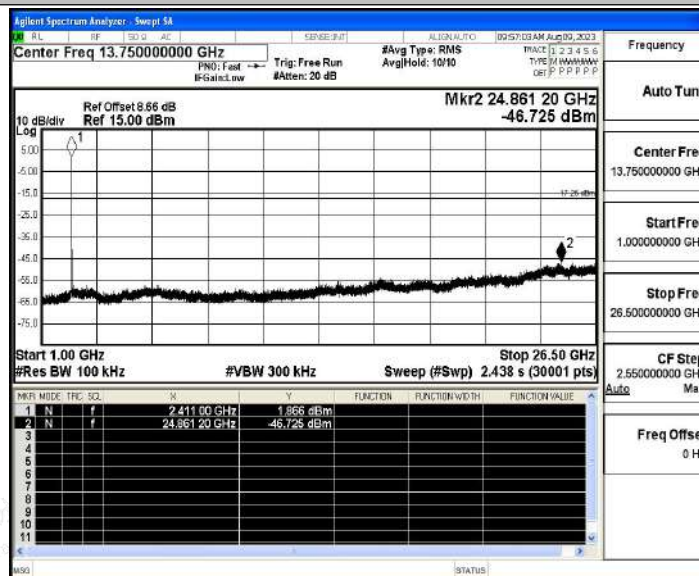


Test Graphs

11B_Ant1_2412_30~1000

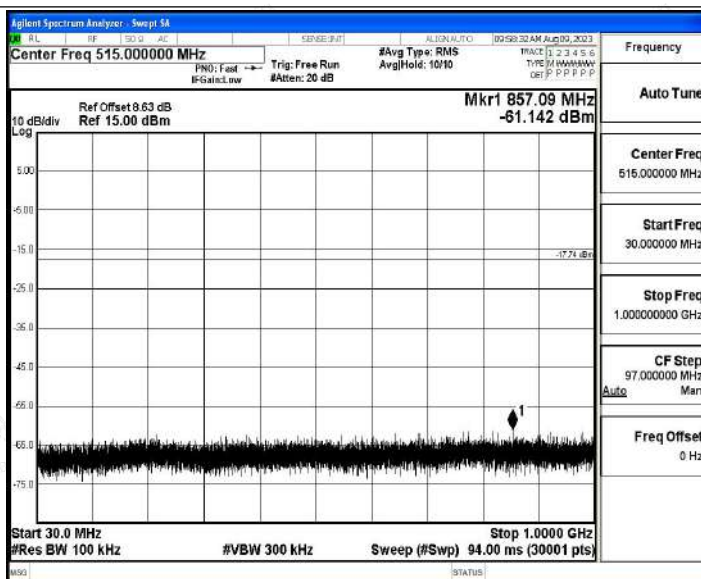


11B_Ant1_2412_1000~26500

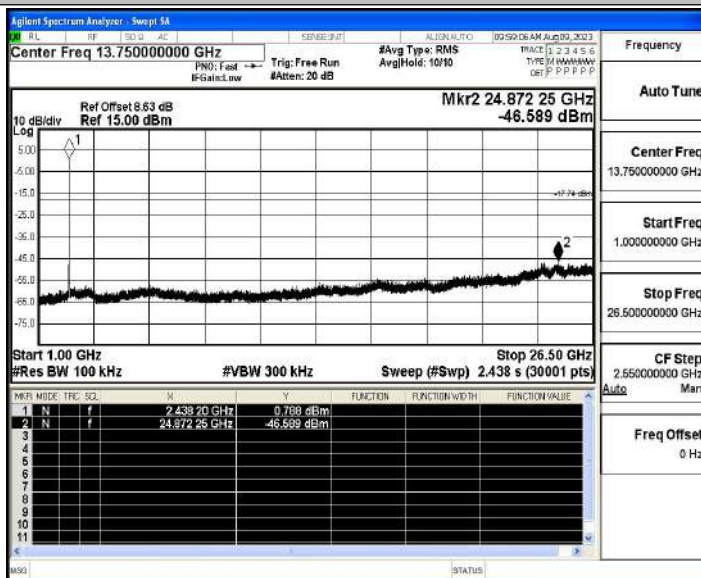


11B_Ant1_2437_30~1000



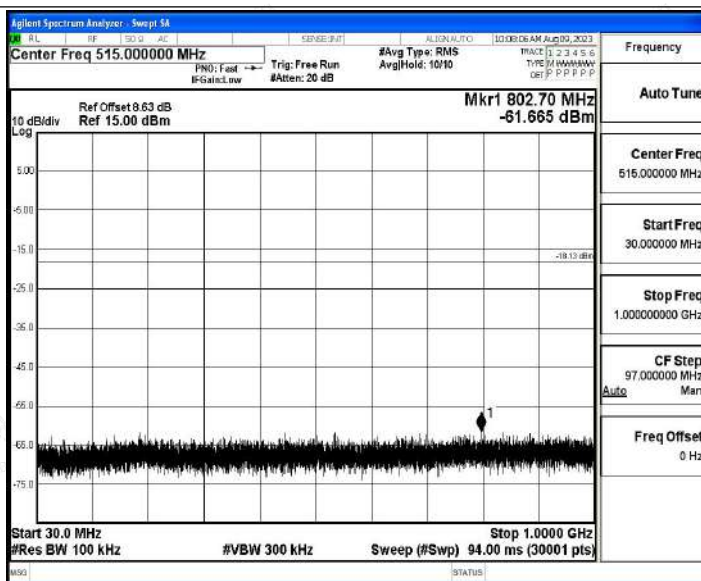


11B_Ant1_2437_1000~26500

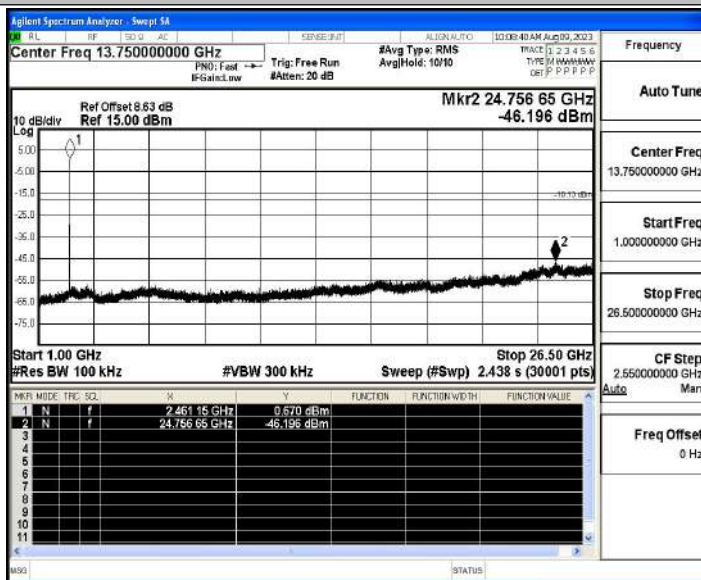


11B_Ant1_2462_30~1000





11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

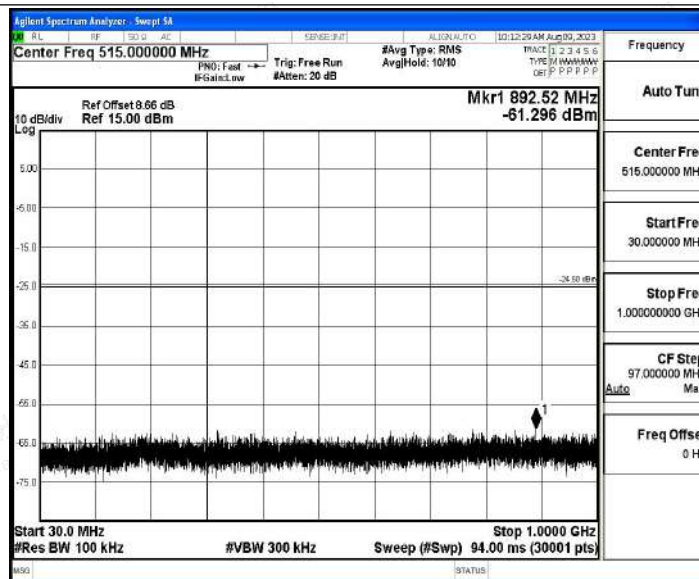


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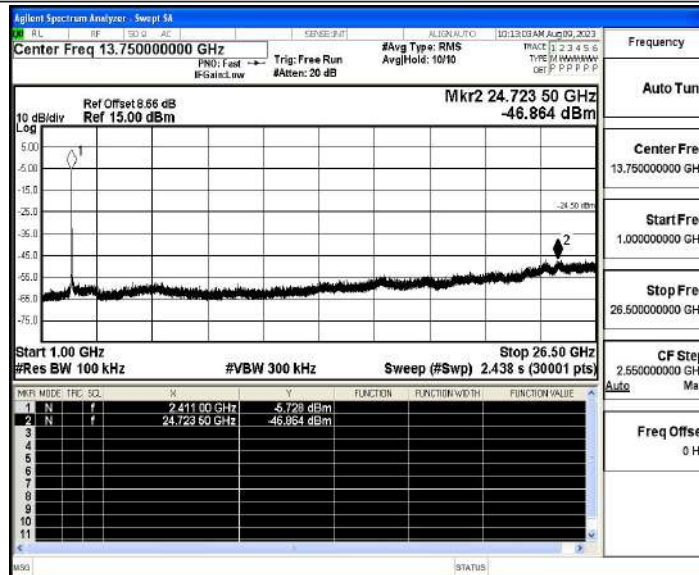
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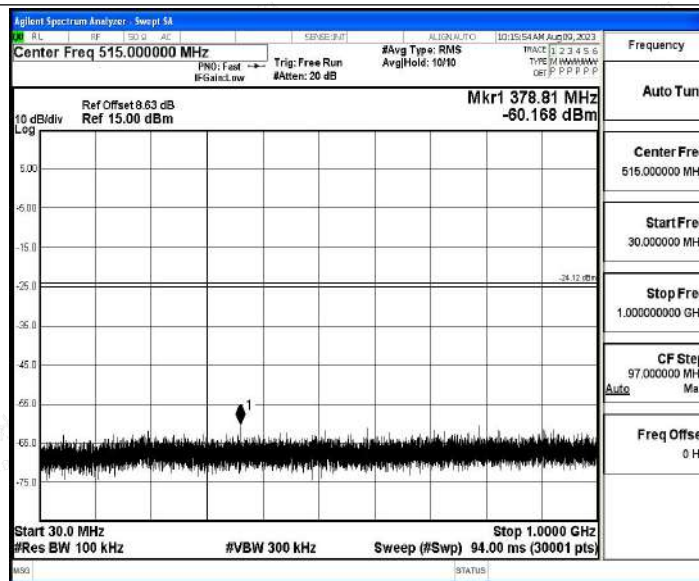


11G_Ant1_2412_1000~26500

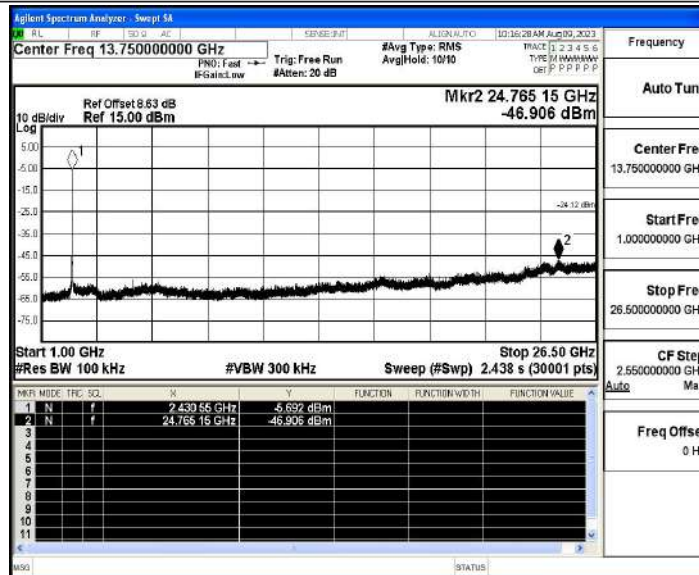


11G_Ant1_2437_30~1000



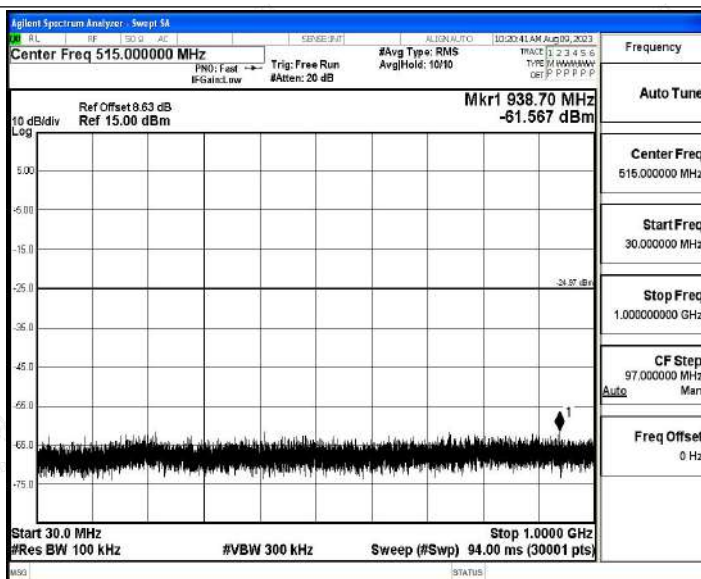


11G_Ant1_2437_1000~26500

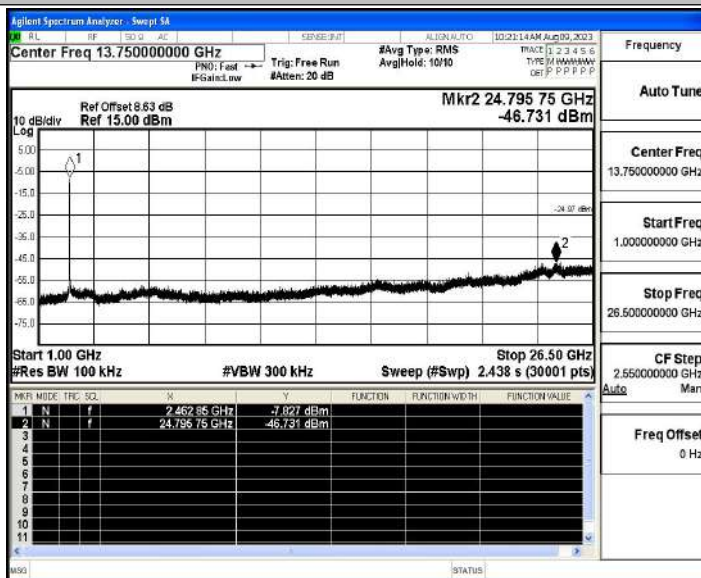


11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

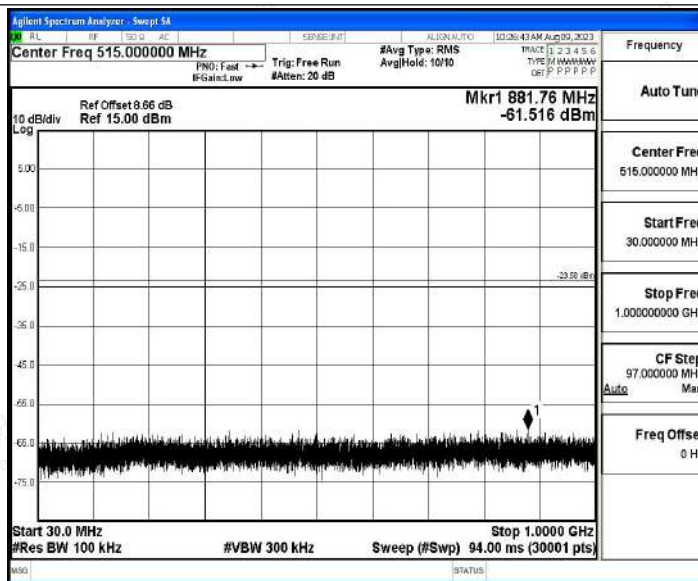


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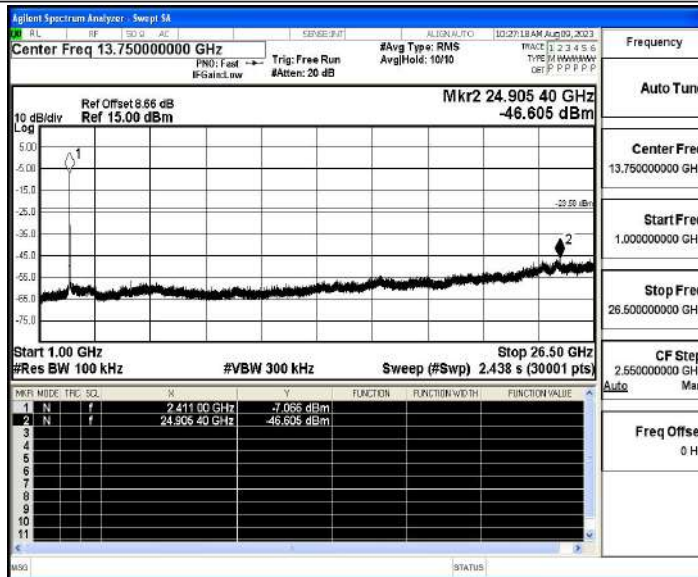
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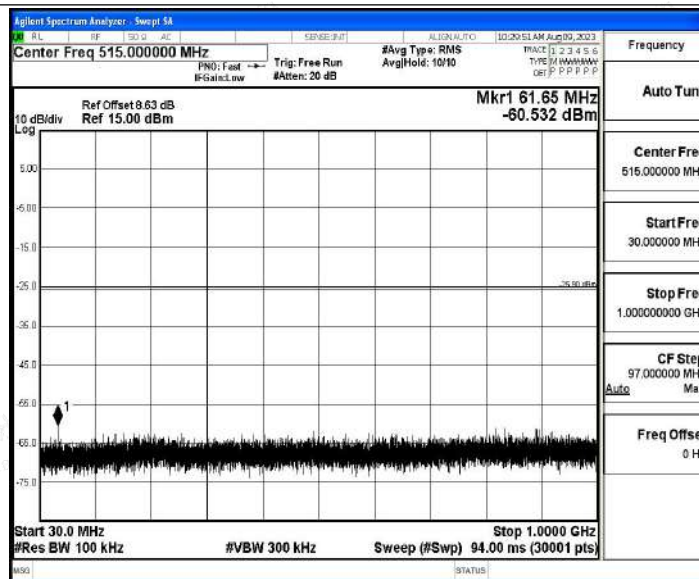


11N20SISO_Ant1_2412_1000~26500

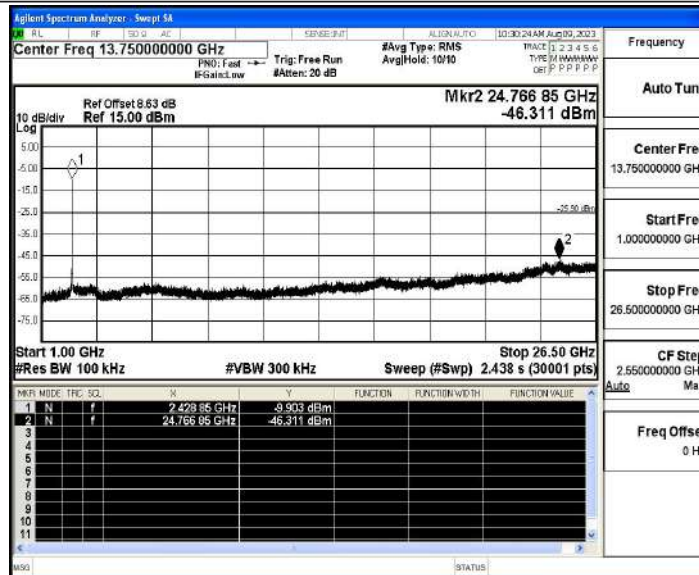


11N20SISO_Ant1_2437_30~1000



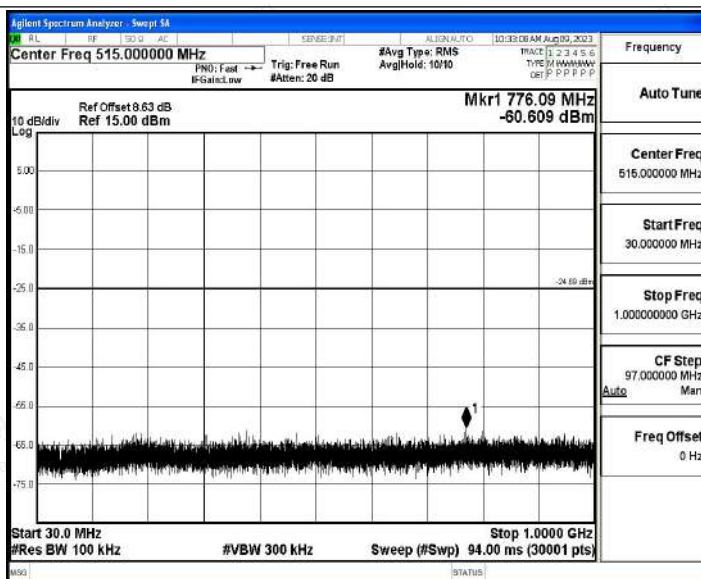


11N20SISO_Ant1_2437_1000~26500

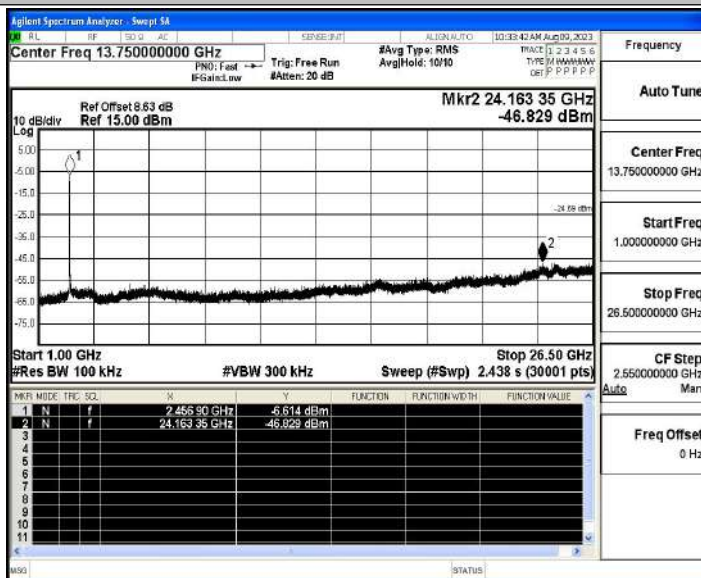


11N20SISO_Ant1_2462_30~1000





11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_30~1000

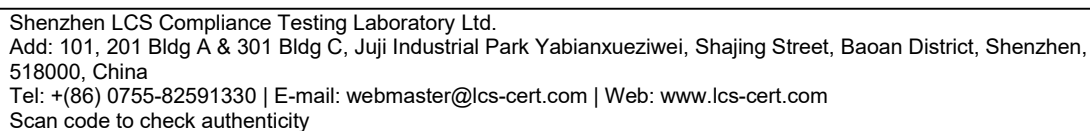
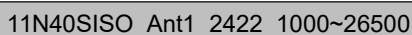


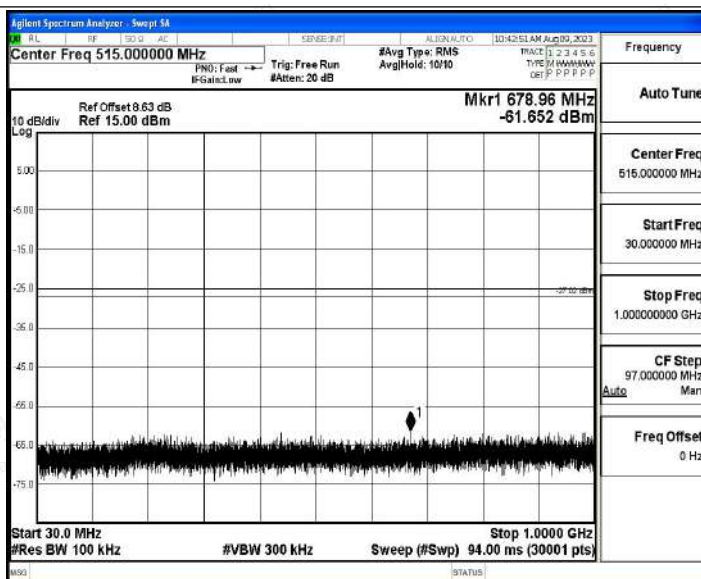
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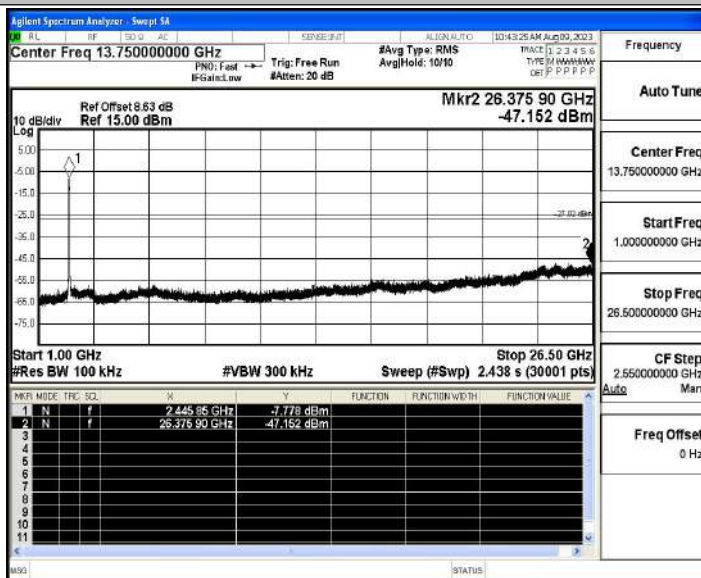
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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

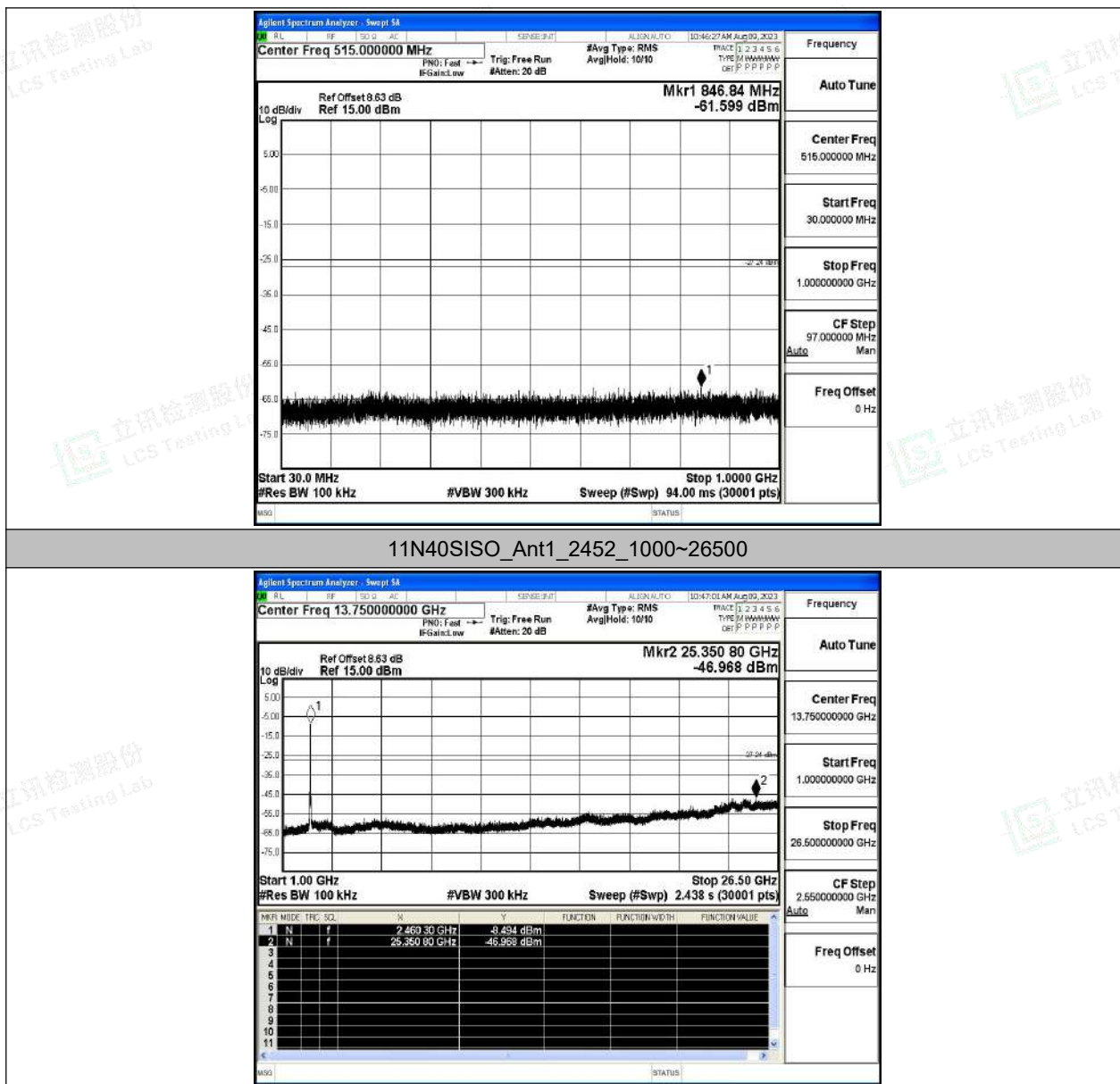


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Scan code to check authenticity



C.6 Duty Cycle

Test Result

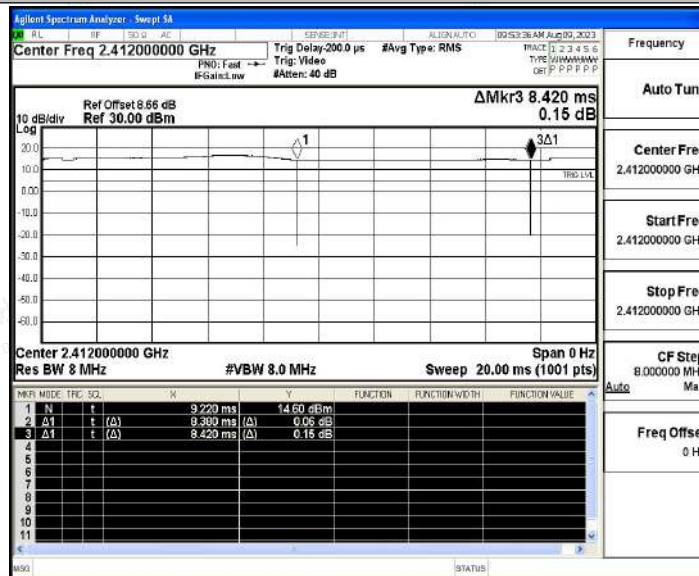
TestMode	Antenna	Frequency (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T(kHz)
11B	Ant1	2412	8.38	8.42	99.52	0.02	0.01
		2437	8.38	8.41	99.64	0.02	0.01
		2462	8.39	8.42	99.64	0.02	0.01
11G	Ant1	2412	1.39	1.43	97.20	0.12	0.72
		2437	1.39	1.43	97.20	0.12	0.72
		2462	1.39	1.42	97.89	0.09	0.72
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10	0.77
		2437	1.30	1.34	97.01	0.13	0.77
		2462	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	2422	0.64	0.68	94.12	0.26	1.56
		2437	0.64	0.68	94.12	0.26	1.56
		2452	0.64	0.68	94.12	0.26	1.56



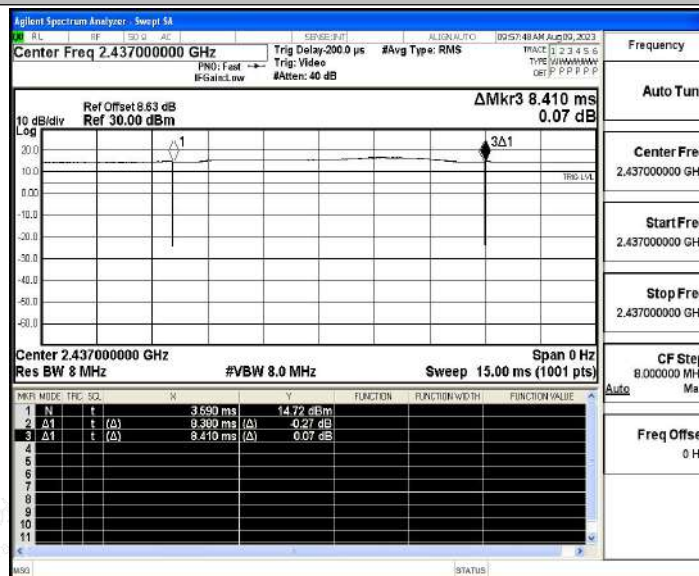


Test Graphs

11B_Ant1_2412

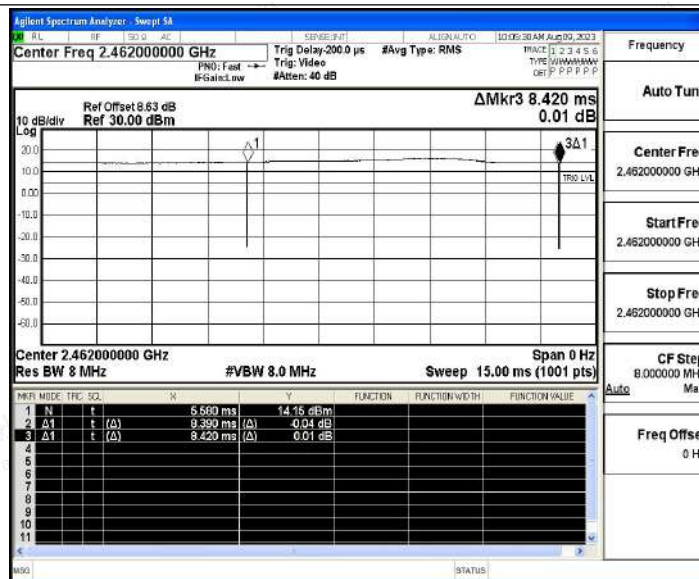


11B_Ant1_2437

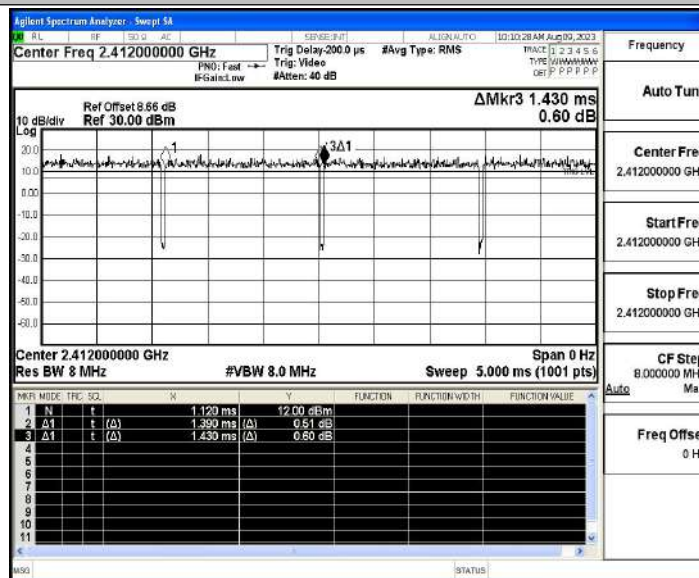


11B_Ant1_2462



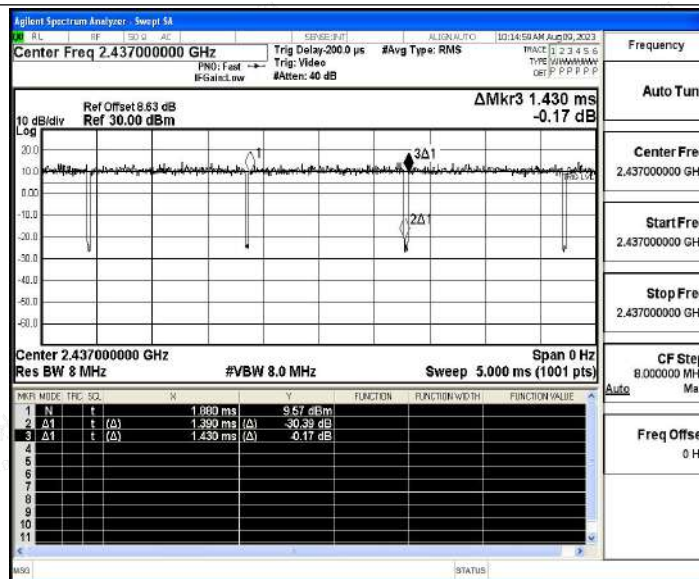


11G_Ant1_2412

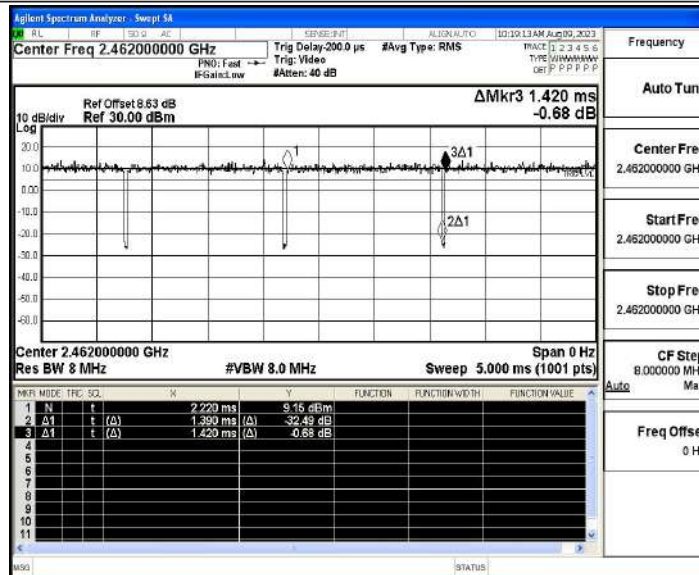


11G_Ant1_2437



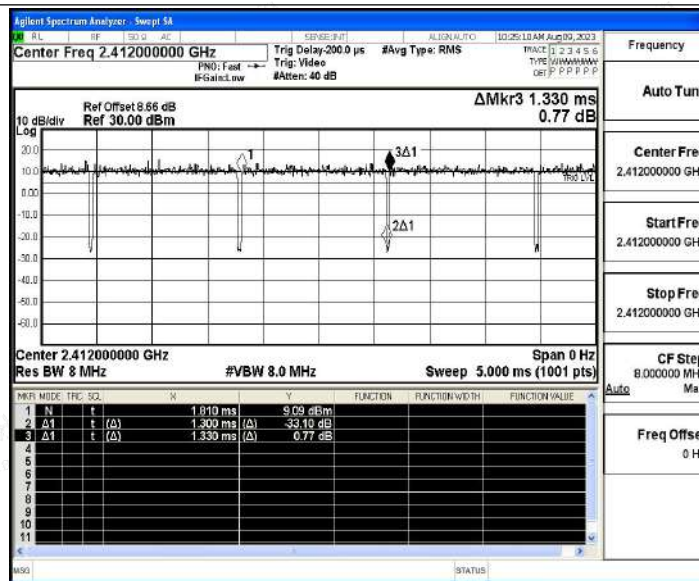


11G_Ant1_2462

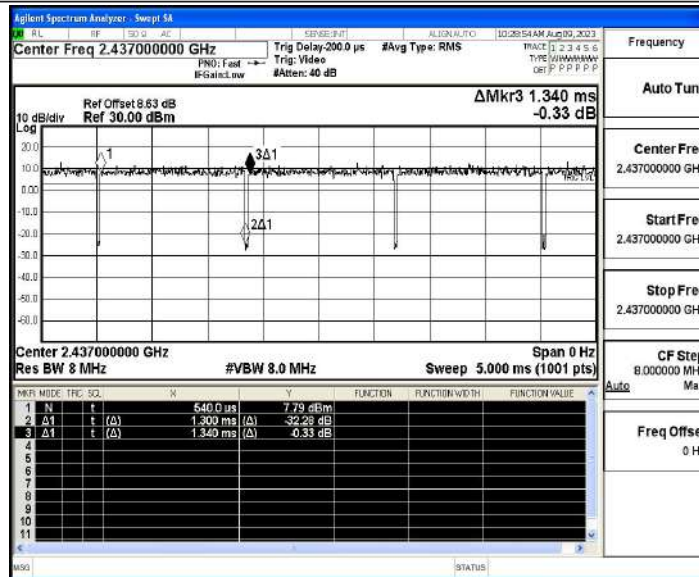


11N20SISO_Ant1_2412



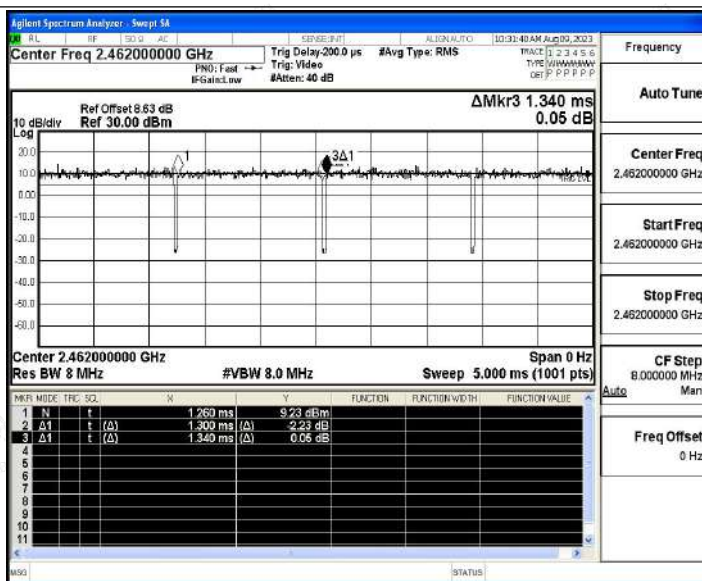


11N20SISO_Ant1_2437

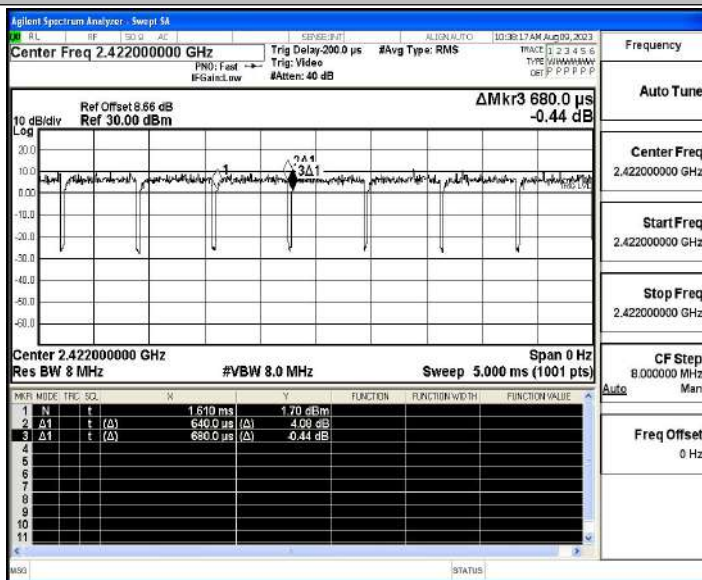


11N20SISO_Ant1_2462





11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

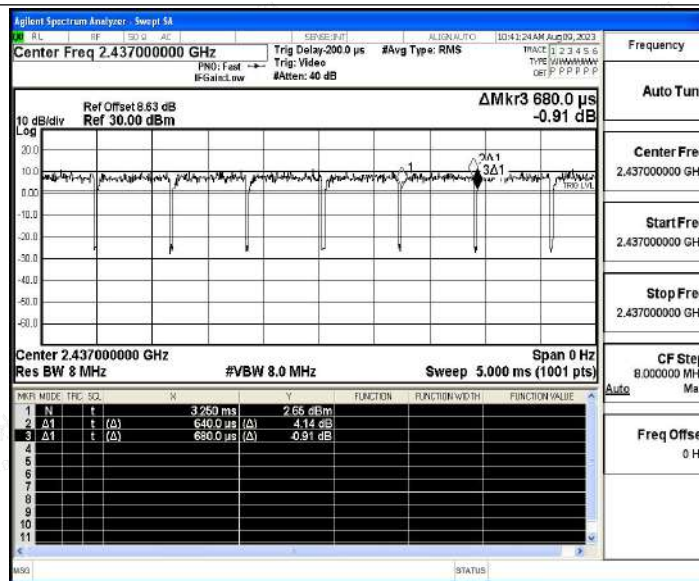


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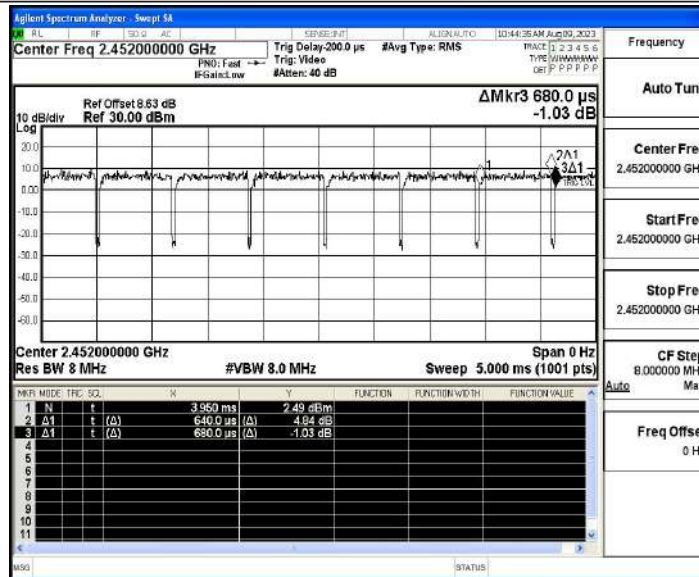
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11N40SISO_Ant1_2452





C.7 Emissions in Restricted Bands

Test Result

Test Mode	Antenna	ChName	Frequency (MHz)	Detector	Freq [MHz]	Result [dBm]	Gain (dBi)	E (dBuV/m)	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-48.57	2.60	49.29	≤54	PASS
				AV	2389.960	-47.82	2.60	50.04	≤54	PASS
				AV	2390.000	-47.82	2.60	50.04	≤54	PASS
				Peak	2310.000	-41.9	2.60	55.96	≤74	PASS
				Peak	2330.550	-38.57	2.60	59.29	≤74	PASS
				Peak	2390.000	-41.56	2.60	56.30	≤74	PASS
		High	2462	AV	2483.500	-47.49	2.60	50.37	≤54	PASS
				AV	2486.750	-47.45	2.60	50.41	≤54	PASS
				AV	2500.000	-47.58	2.60	50.28	≤54	PASS
				Peak	2483.500	-41.38	2.60	56.48	≤74	PASS
				Peak	2499.180	-38.33	2.60	59.53	≤74	PASS
				Peak	2500.000	-42.98	2.60	54.88	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.03	2.60	49.83	≤54	PASS
				AV	2389.960	-46.15	2.60	51.71	≤54	PASS
				AV	2390.000	-46.15	2.60	51.71	≤54	PASS
				Peak	2310.000	-42.31	2.60	55.55	≤74	PASS
				Peak	2384.630	-37.21	2.60	60.65	≤74	PASS
				Peak	2390.000	-38.71	2.60	59.15	≤74	PASS
		High	2462	AV	2483.500	-45.27	2.60	52.59	≤54	PASS
				AV	2483.560	-45.24	2.60	52.62	≤54	PASS
				AV	2500.000	-46.73	2.60	51.13	≤54	PASS
				Peak	2483.500	-37.09	2.60	60.77	≤74	PASS
				Peak	2487.300	-38.15	2.60	59.71	≤74	PASS
				Peak	2500.000	-40.77	2.60	57.09	≤74	PASS
11N 20SI SO	Ant1	Low	2412	AV	2310.000	-48.09	2.60	49.77	≤54	PASS
				AV	2389.830	-45.02	2.60	52.84	≤54	PASS
				AV	2390.000	-45.14	2.60	52.72	≤54	PASS
				Peak	2310.000	-42.93	2.60	54.93	≤74	PASS
				Peak	2389.700	-37.81	2.60	60.05	≤74	PASS
				Peak	2390.000	-38.53	2.60	59.33	≤74	PASS
		High	2462	AV	2483.500	-44.72	2.60	53.14	≤54	PASS
				AV	2483.890	-44.51	2.60	53.35	≤54	PASS
				AV	2500.000	-46.8	2.60	51.06	≤54	PASS
				Peak	2483.500	-38.17	2.60	59.69	≤74	PASS
				Peak	2484.660	-35.72	2.60	62.14	≤74	PASS





11N 40SI SO	Ant1	Low	2422	Peak	2500.000	-42.43	2.60	55.43	≤74	PASS
				AV	2310.000	-47.76	2.60	50.10	≤54	PASS
				AV	2389.830	-43.36	2.60	53.50	≤54	PASS
				AV	2390.000	-43.64	2.60	53.22	≤54	PASS
				Peak	2310.000	-43.68	2.60	54.18	≤74	PASS
				Peak	2385.930	-32.21	2.60	65.65	≤74	PASS
				Peak	2390.000	-40.88	2.60	56.98	≤74	PASS
		High	2452	AV	2483.500	-42.03	2.60	53.83	≤54	PASS
				AV	2484.440	-41.58	2.60	53.28	≤54	PASS
				AV	2500.000	-45.78	2.60	52.08	≤54	PASS
				Peak	2483.500	-40.67	2.60	57.19	≤74	PASS
				Peak	2485.100	-26.04	2.60	71.82	≤74	PASS
				Peak	2500.000	-38.4	2.60	59.46	≤74	PASS

Note:

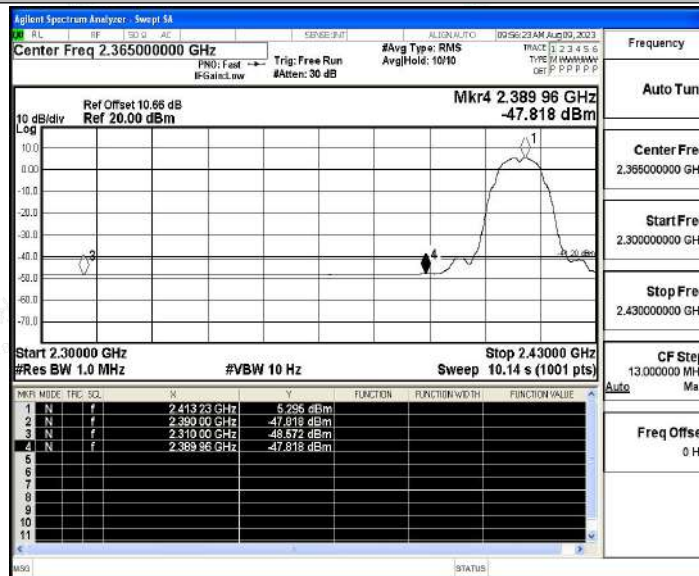
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



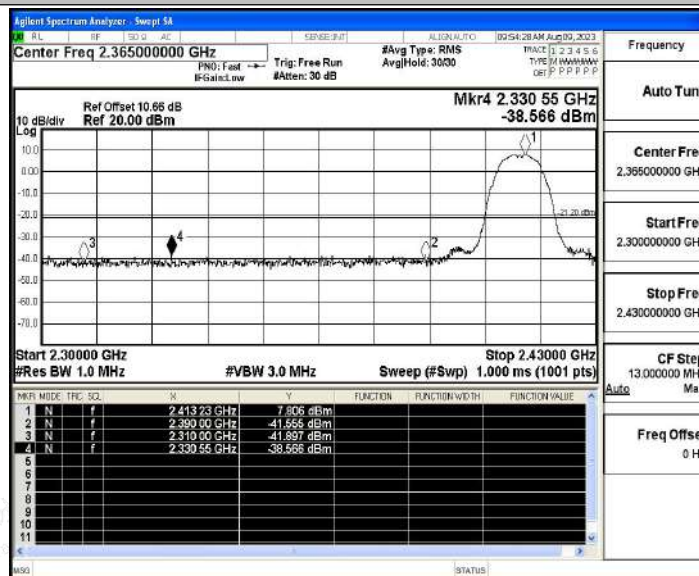


Test Graphs

11B_Ant1_Low_2412_AV

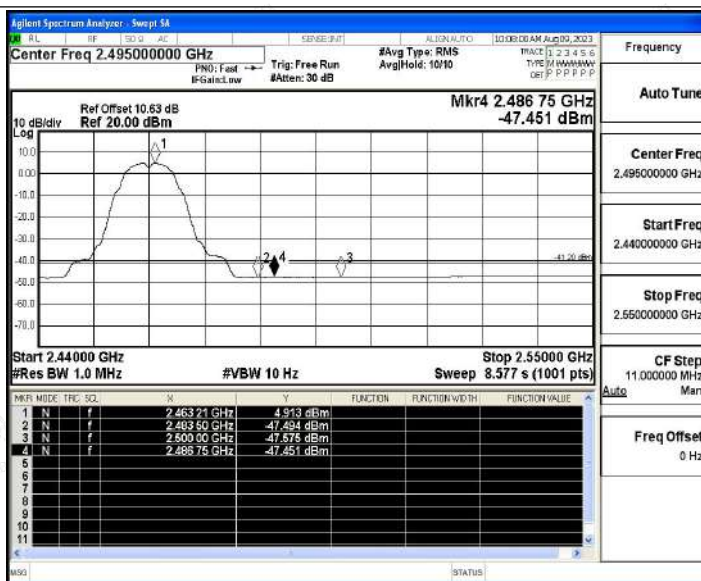


11B_Ant1_Low_2412_Peak

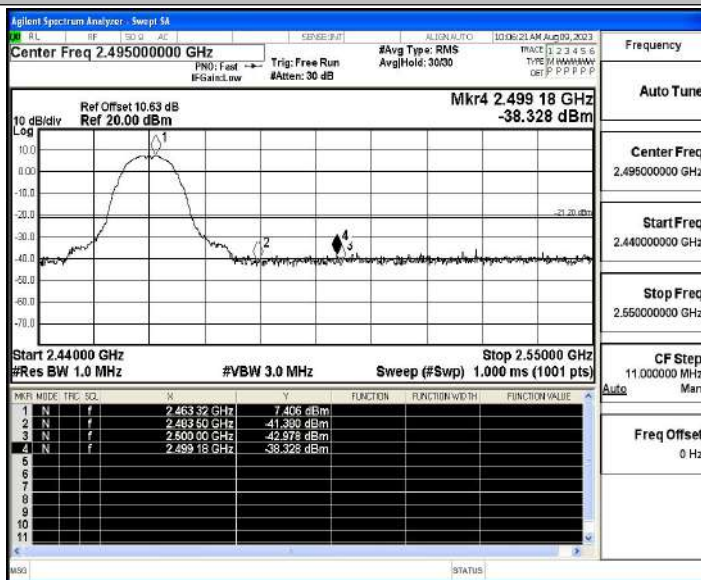


11B_Ant1_High_2462_AV



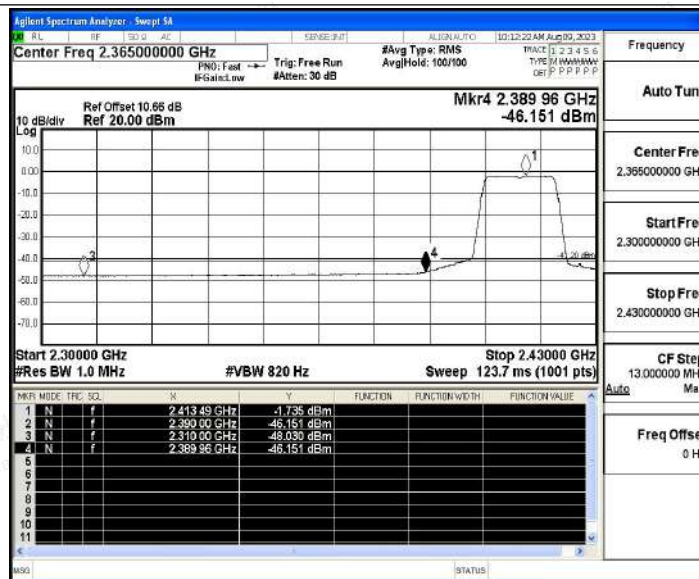


11B_Ant1_High_2462_Peak

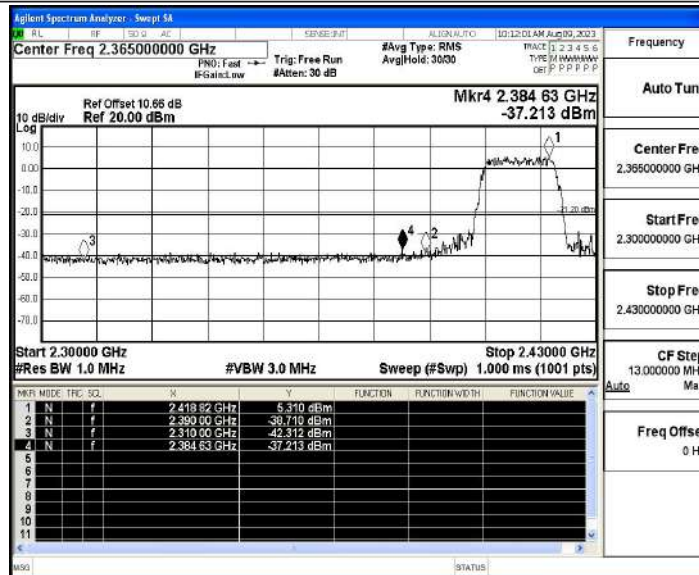


11G_Ant1_Low_2412_AV



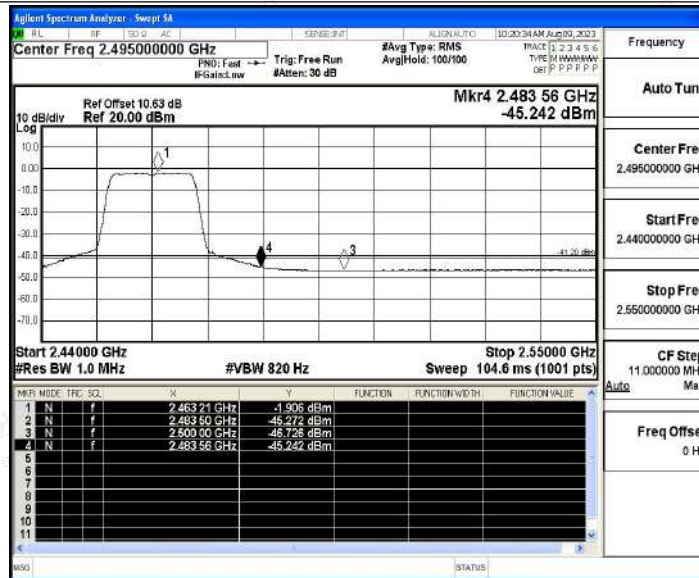


11G_Ant1_Low_2412_Peak

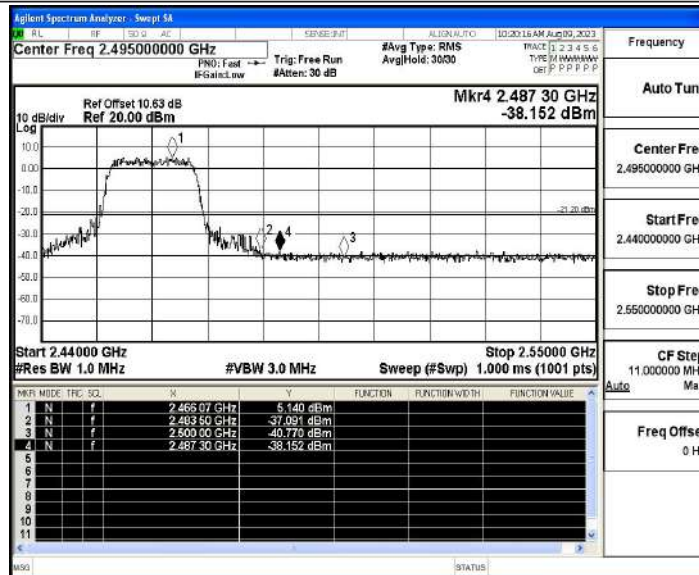


11G_Ant1_High_2462_AV



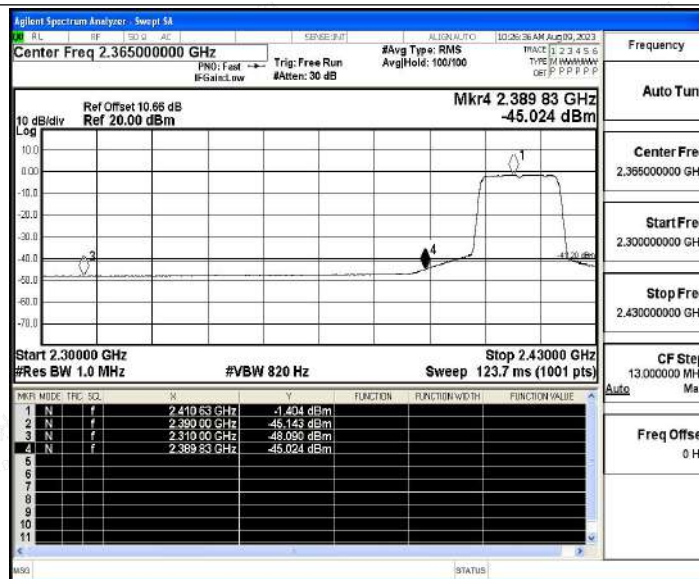


11G_Ant1_High_2462_Peak

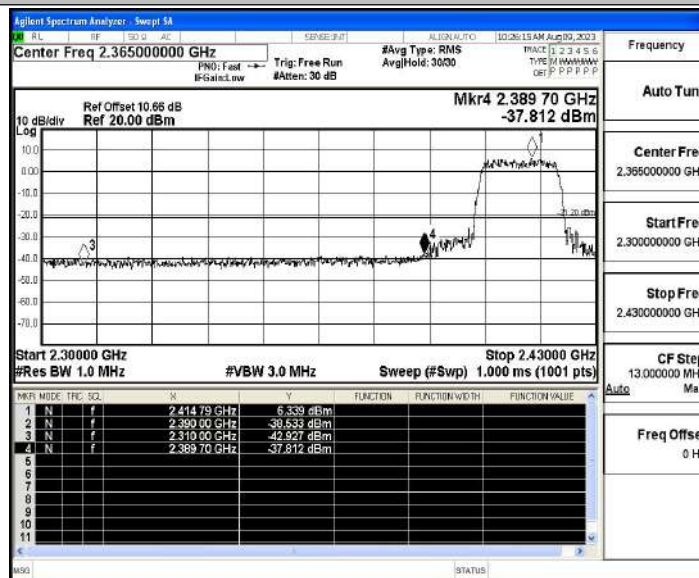


11N20SISO_Ant1_Low_2412_AV



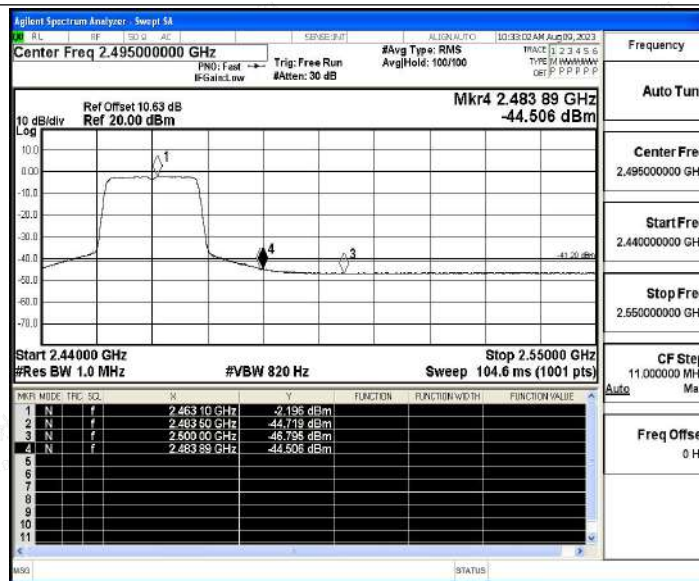


11N20SISO_Ant1_Low_2412_Peak

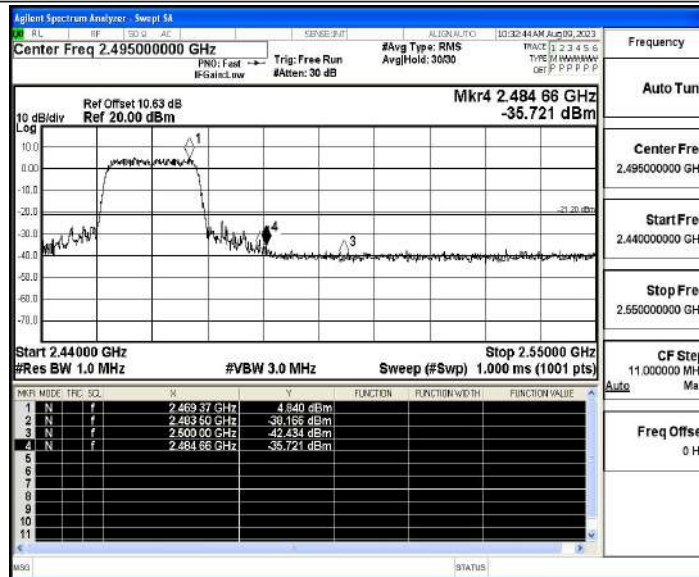


11N20SISO_Ant1_High_2462_AV



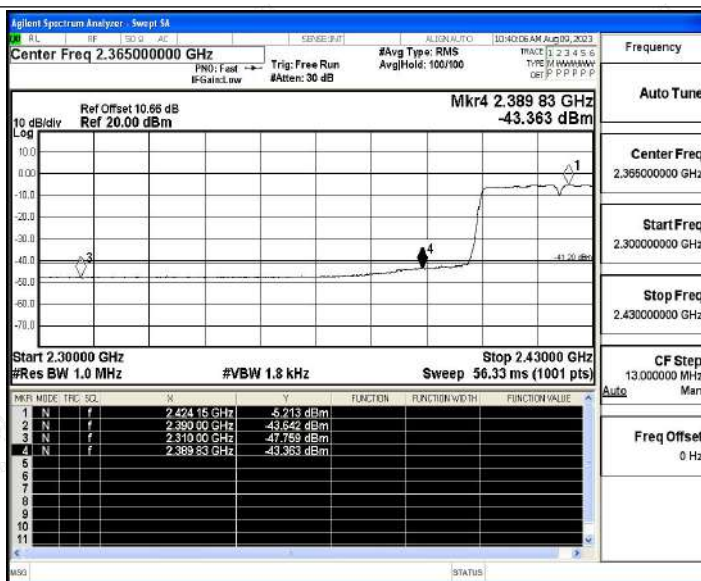


11N20SISO_Ant1_High_2462_Peak

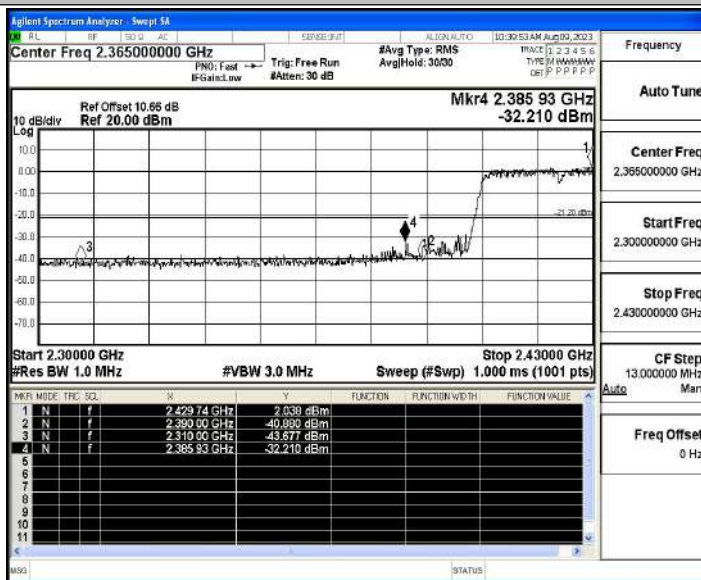


11N40SISO_Ant1_Low_2422_AV



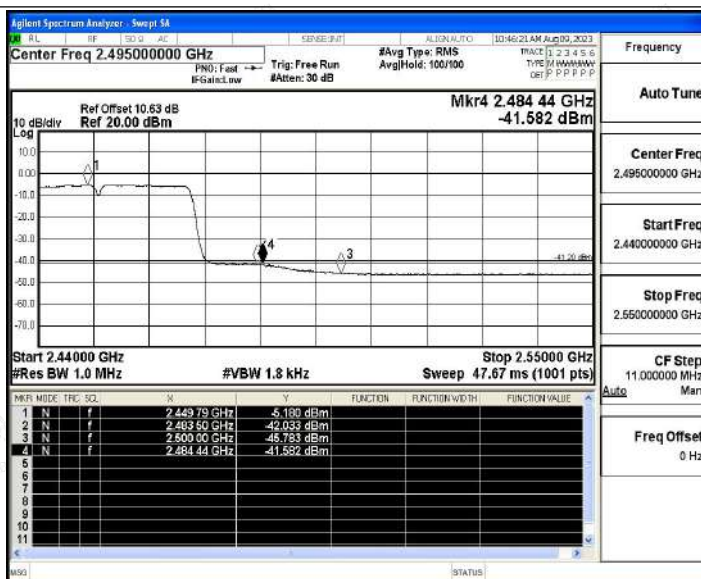


11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV





11N40SISO_Ant1_High_2452_Peak

