

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet
Test Model: H9190L

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

C.1 DTS Bandwidth

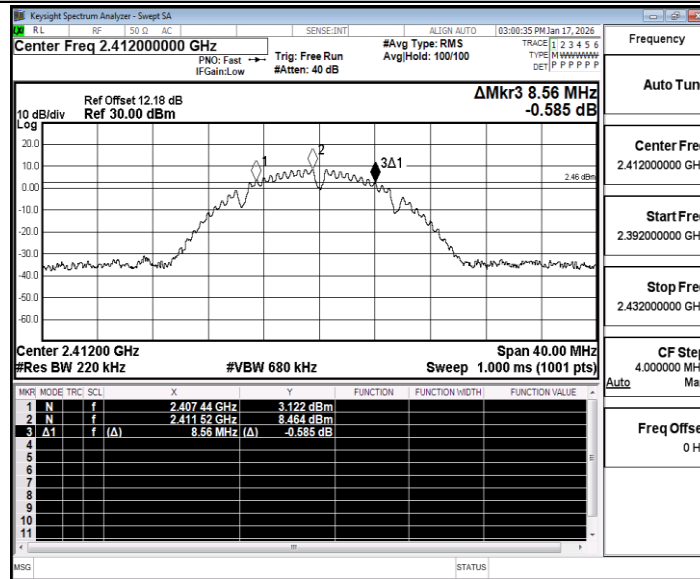
Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.560	2407.440	2416.000	0.5	PASS
		2437	8.120	2433.440	2441.560	0.5	PASS
		2462	8.600	2457.440	2466.040	0.5	PASS
11G	Ant1	2412	15.920	2403.840	2419.760	0.5	PASS
		2437	16.040	2429.120	2445.160	0.5	PASS
		2462	15.400	2453.800	2469.200	0.5	PASS
11N20SISO	Ant1	2412	16.200	2403.200	2419.400	0.5	PASS
		2437	16.240	2429.520	2445.760	0.5	PASS
		2462	16.800	2453.200	2470.000	0.5	PASS
11N40SISO	Ant1	2422	36.480	2403.760	2440.240	0.5	PASS
		2437	27.520	2427.160	2454.680	0.5	PASS
		2452	23.440	2438.720	2462.160	0.5	PASS

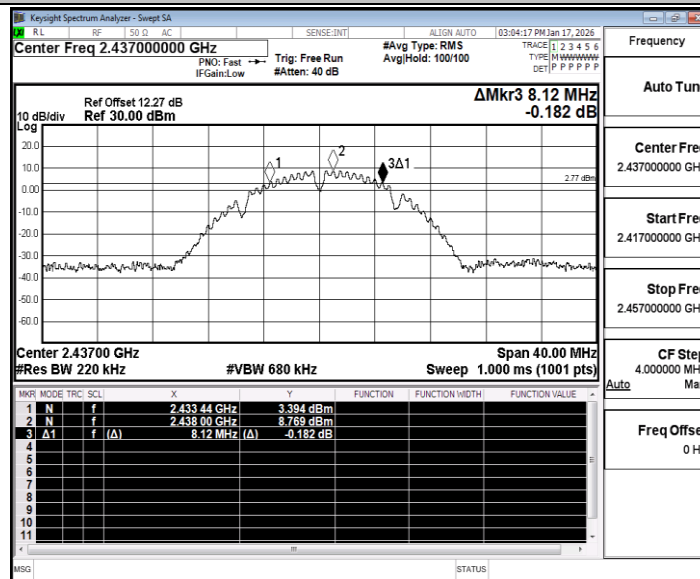
Note: offset=System attenuation +cabel loss

Test Graphs

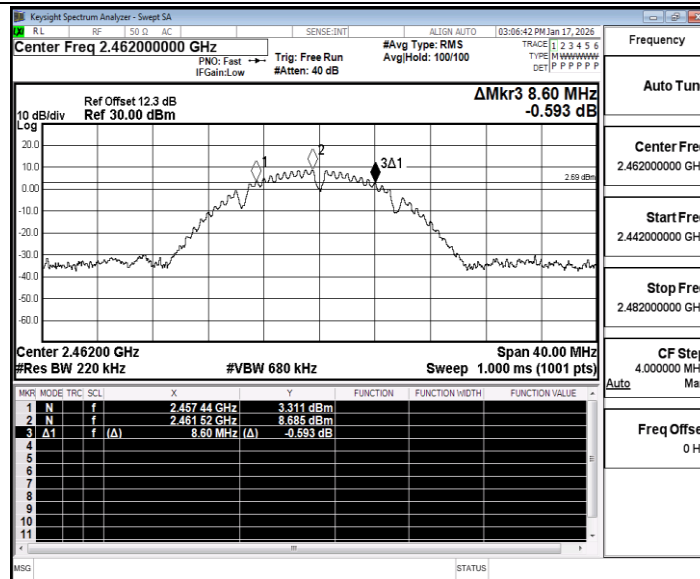
11B_Ant1_2412



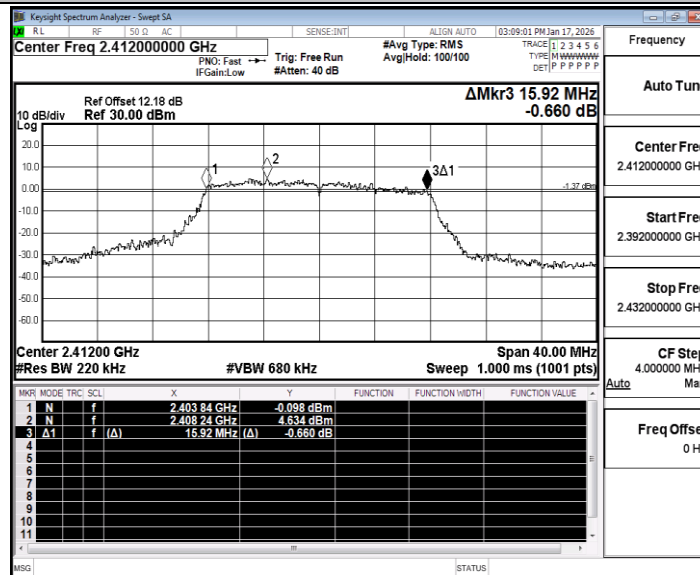
11B_Ant1_2437



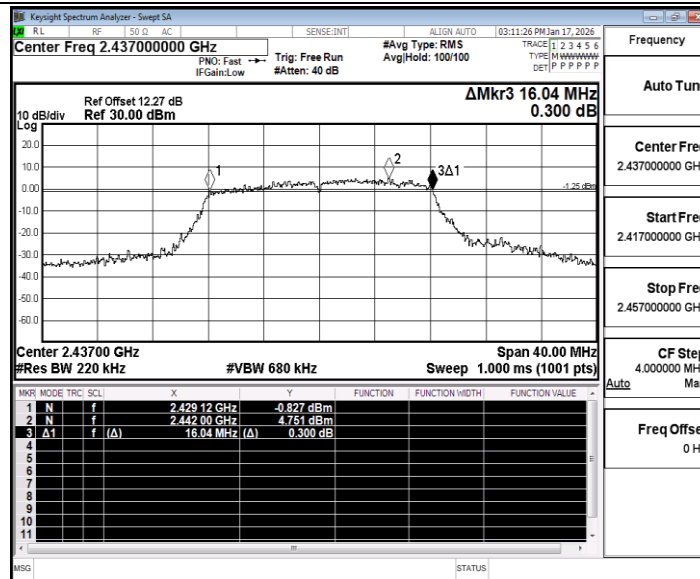
11B_Ant1_2462



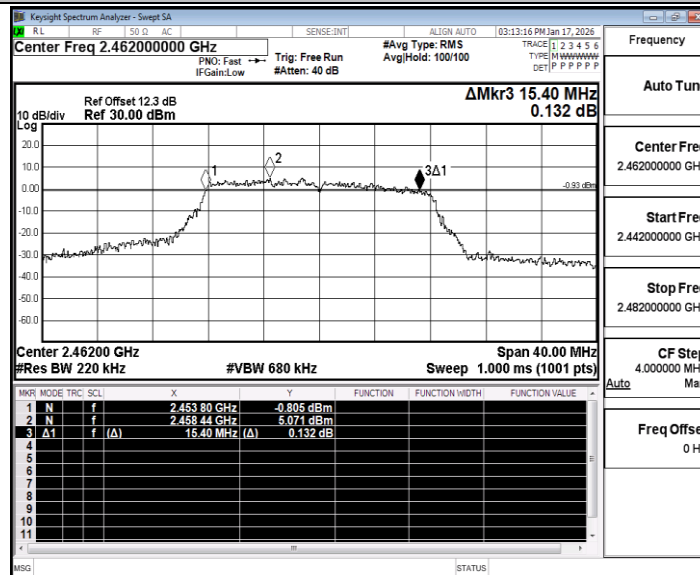
11G_Ant1_2412



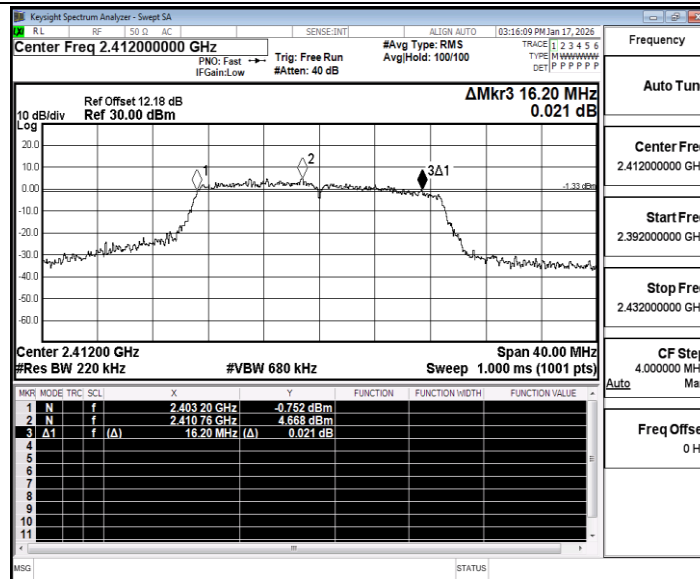
11G_Ant1_2437



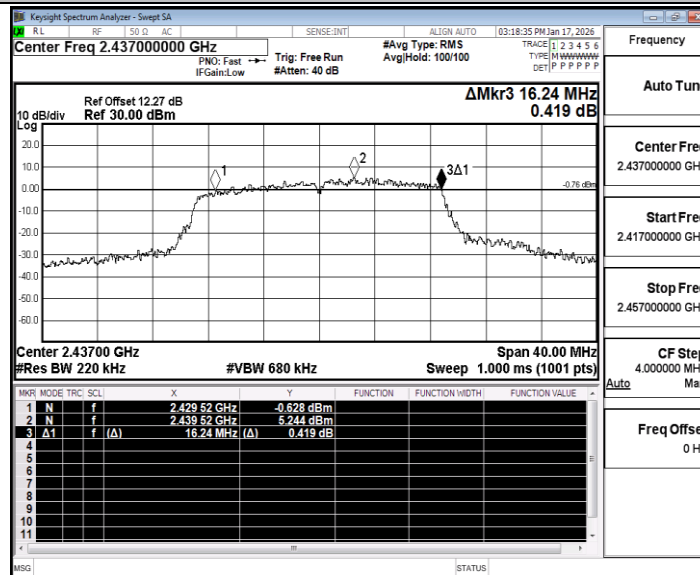
11G_Ant1_2462



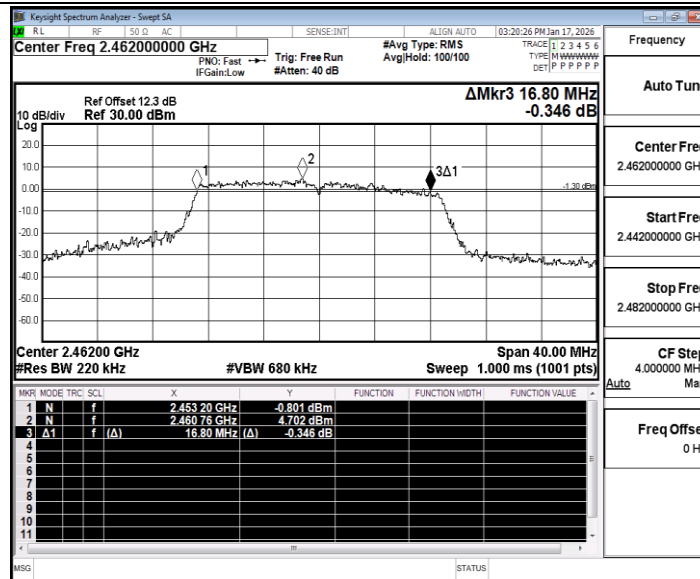
11N20SISO_Ant1_2412



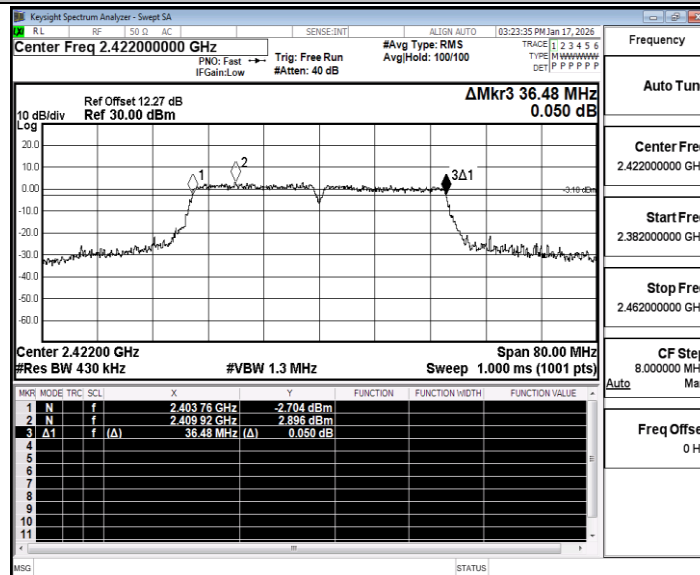
11N20SISO_Ant1_2437



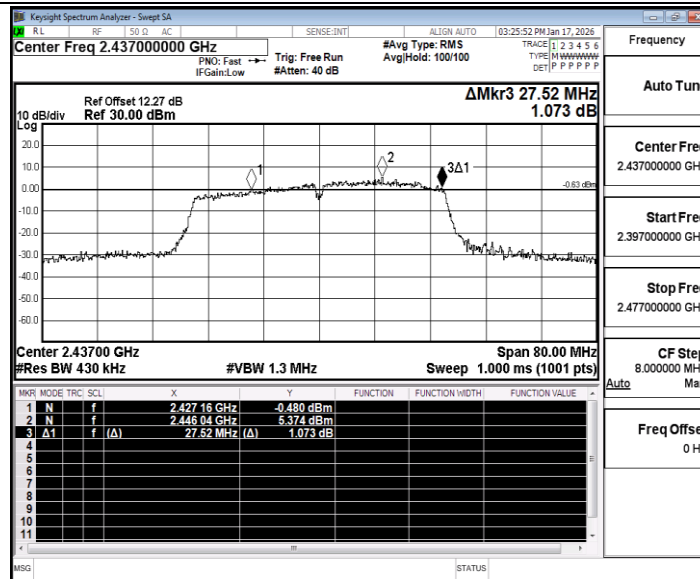
11N20SISO_Ant1_2462



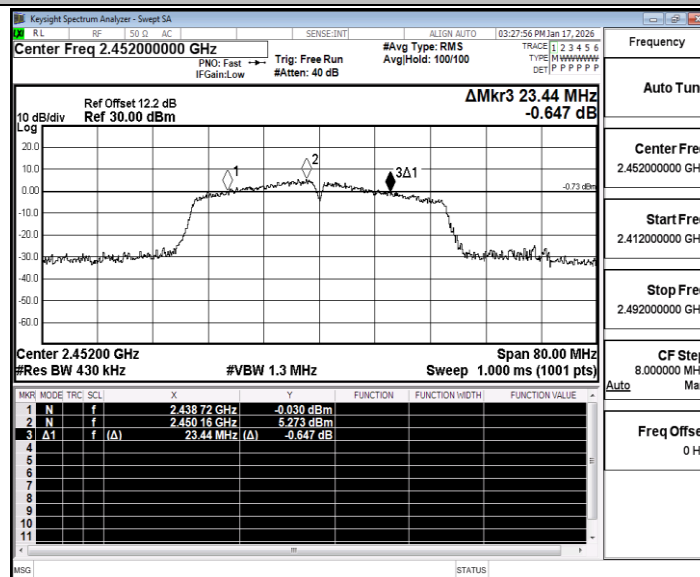
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



C.2 Maximum Average conducted output power

Test Result Average

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.57	0.02	15.59	≤30.00	PASS
		2437	15.89	0.02	15.91	≤30.00	PASS
		2462	15.71	0.02	15.73	≤30.00	PASS
11G	Ant1	2412	13.71	0.15	13.86	≤30.00	PASS
		2437	14.00	0.12	14.12	≤30.00	PASS
		2462	13.95	0.15	14.10	≤30.00	PASS
11N20SISO	Ant1	2412	13.65	0.16	13.81	≤30.00	PASS
		2437	13.85	0.13	13.98	≤30.00	PASS
		2462	13.97	0.16	14.13	≤30.00	PASS
11N40SISO	Ant1	2422	13.06	0.26	13.32	≤30.00	PASS
		2437	13.30	0.32	13.62	≤30.00	PASS
		2452	13.42	0.26	13.68	≤30.00	PASS

Note: offset=System attenuation +cable loss

C.3 Maximum power spectral density

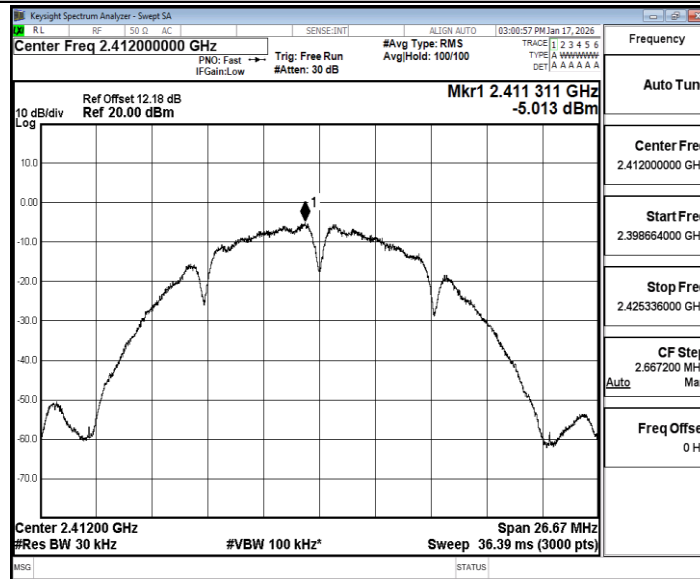
Test Result

TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result[dBm/30kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.01	0.02	-4.99	≤8.00	PASS
		2437	-5.01	0.02	-4.99	≤8.00	PASS
		2462	-5.19	0.02	-5.17	≤8.00	PASS
11G	Ant1	2412	-9.98	0.15	-9.83	≤8.00	PASS
		2437	-9.26	0.12	-9.14	≤8.00	PASS
		2462	-9.83	0.15	-9.68	≤8.00	PASS
11N20SISO	Ant1	2412	-9.98	0.16	-9.82	≤8.00	PASS
		2437	-9.82	0.13	-9.69	≤8.00	PASS
		2462	-9.89	0.16	-9.73	≤8.00	PASS
11N40SISO	Ant1	2422	-14.08	0.26	-13.82	≤8.00	PASS
		2437	-13.06	0.32	-12.74	≤8.00	PASS
		2452	-11.52	0.26	-11.26	≤8.00	PASS

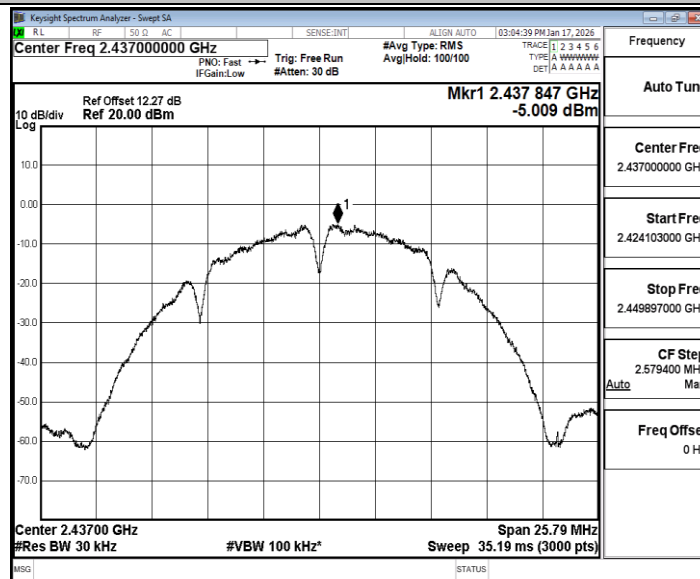
Note: offset=System attenuation +cable loss

Test Graphs

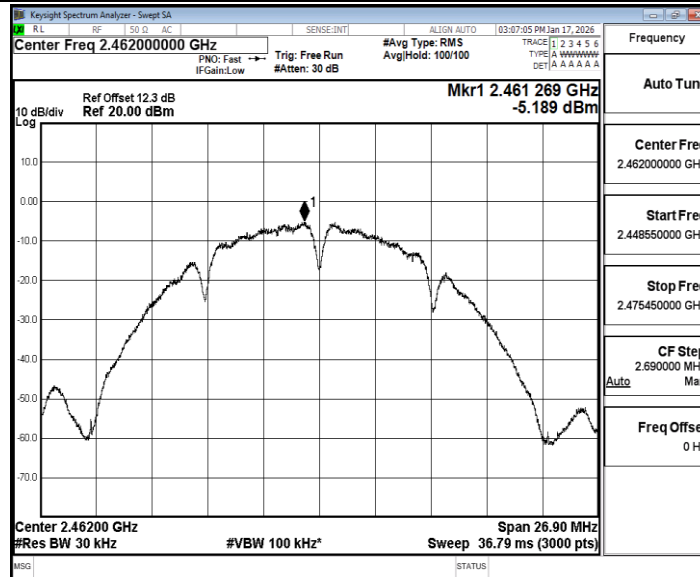
11B_Ant1_2412



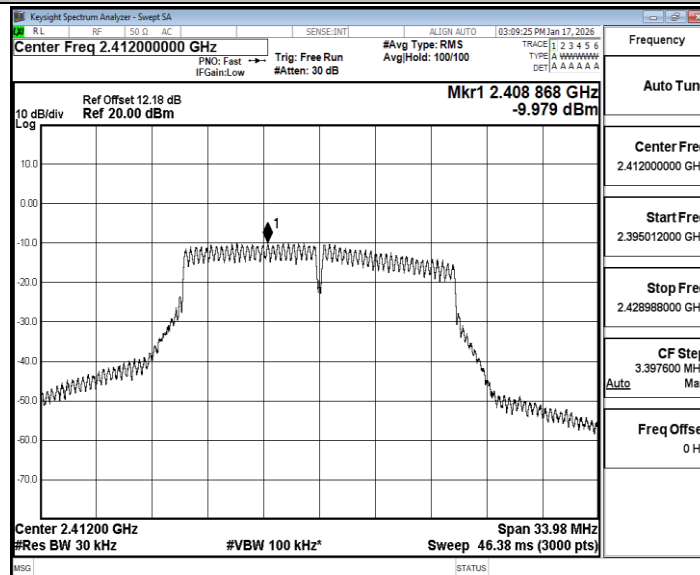
11B_Ant1_2437



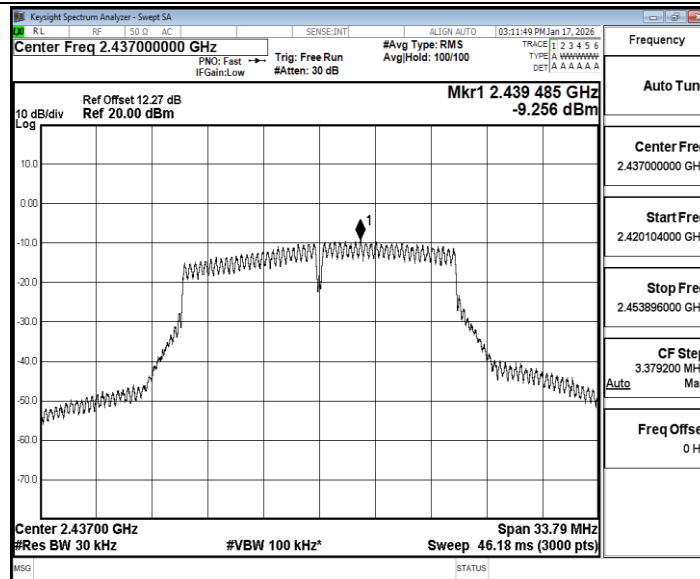
11B_Ant1_2462



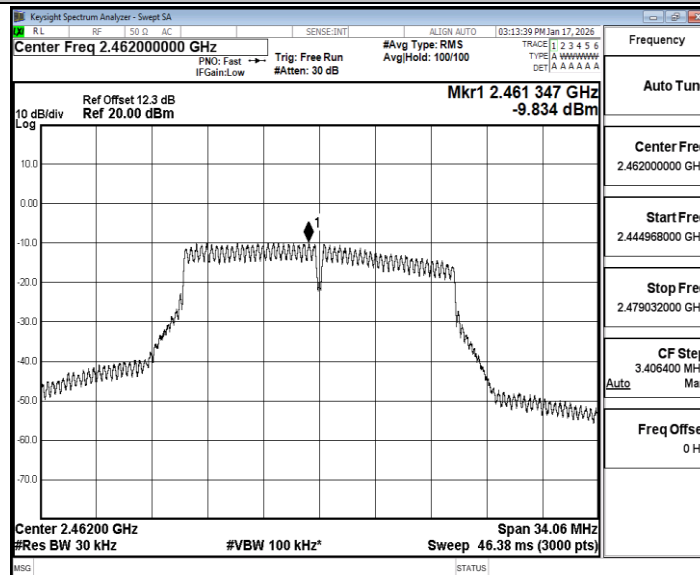
11G_Ant1_2412



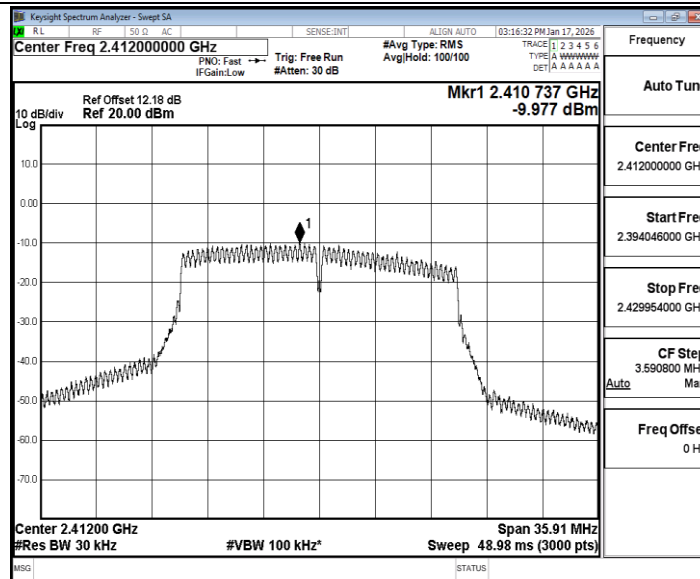
11G_Ant1_2437



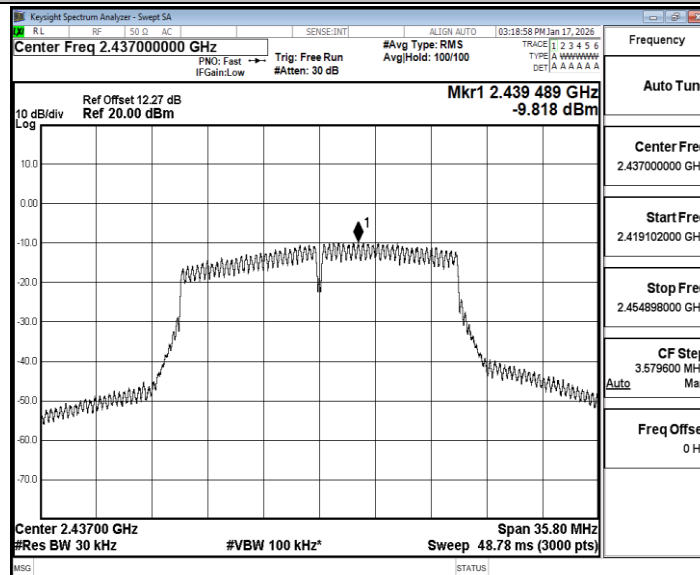
11G_Ant1_2462



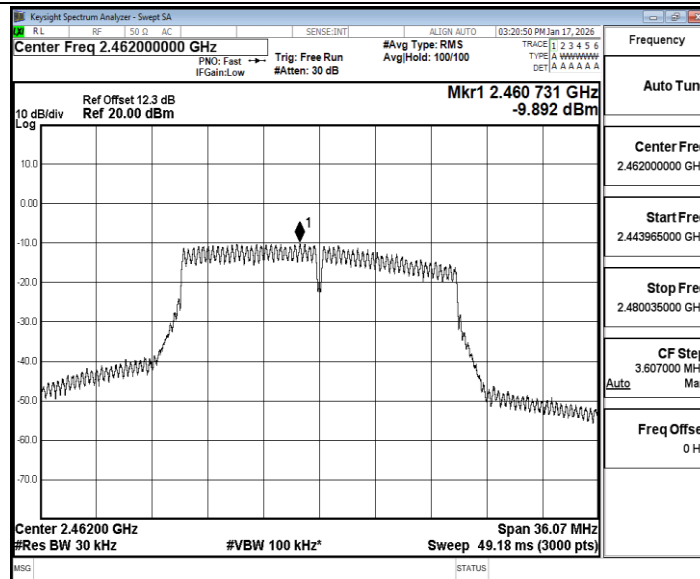
11N20SISO_Ant1_2412



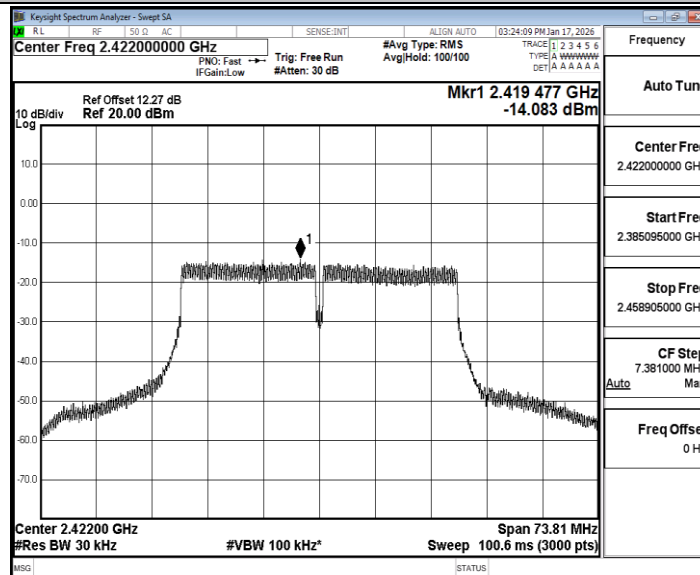
11N20SISO_Ant1_2437



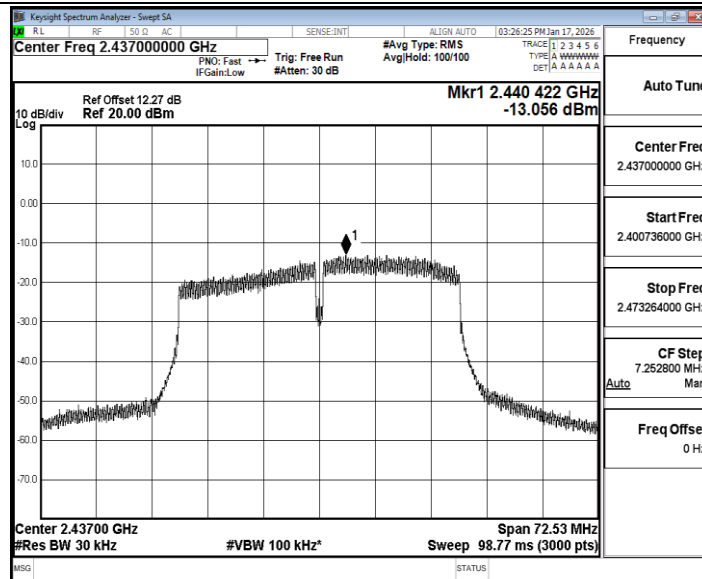
11N20SISO_Ant1_2462



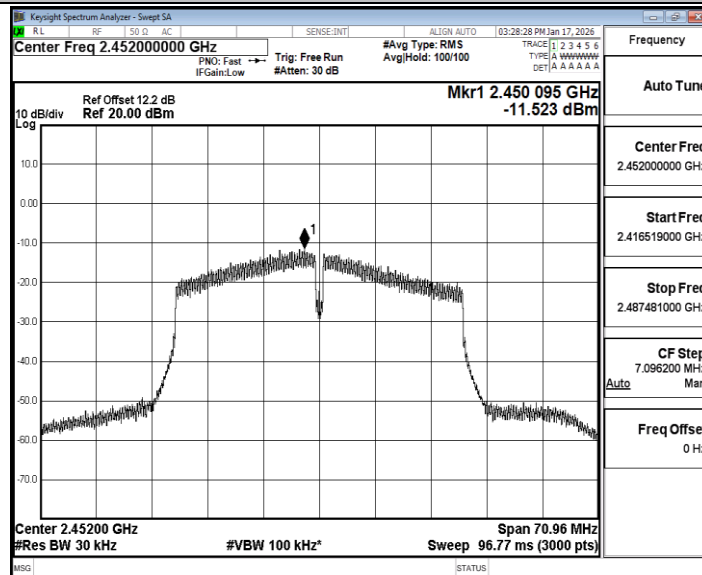
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



C.4 Band edge measurements

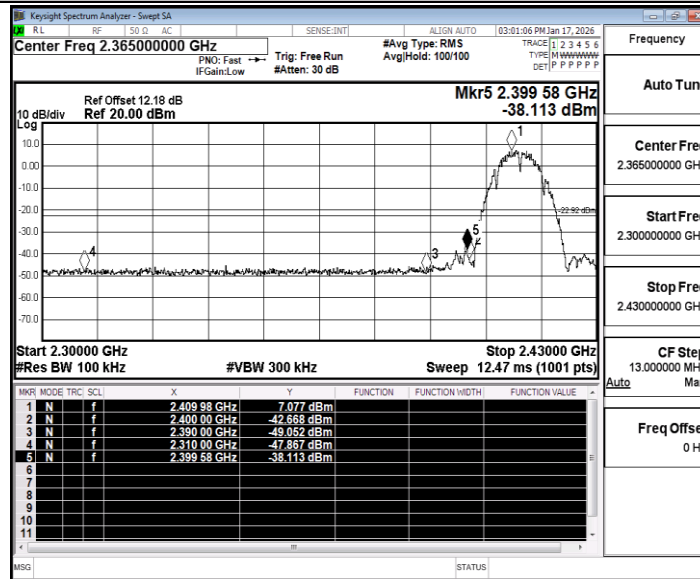
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.08	-38.11	≤-22.92	PASS
		High	2462	7.61	-44.98	≤-22.39	PASS
11G	Ant1	Low	2412	1.69	-31.2	≤-28.31	PASS
		High	2462	3.45	-43.23	≤-26.55	PASS
11N20SISO	Ant1	Low	2412	1.05	-33.48	≤-28.96	PASS
		High	2462	3.86	-41.41	≤-26.14	PASS
11N40SISO	Ant1	Low	2422	-0.42	-30.44	≤-30.42	PASS
		High	2452	2.43	-34.82	≤-27.57	PASS

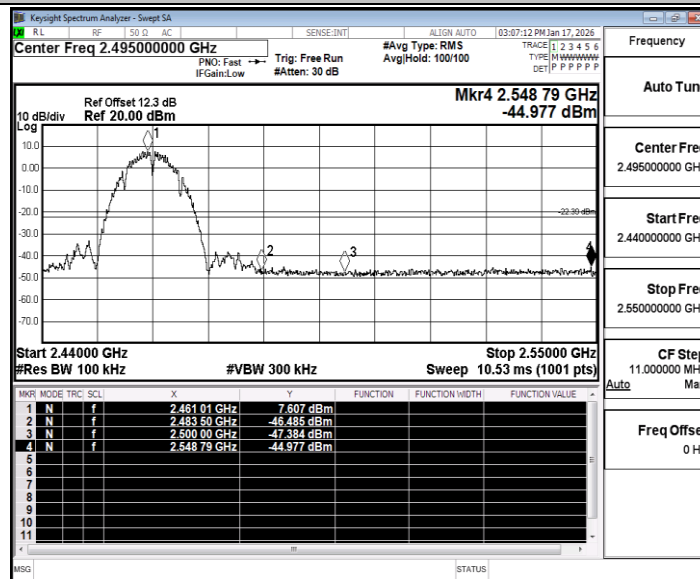
Note: offset=System attenuation +cabel loss

Test Graphs

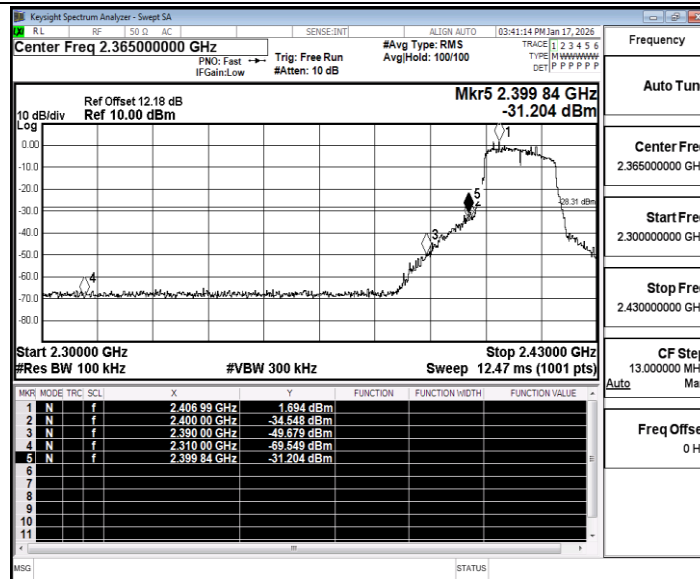
11B_Ant1_Low_2412



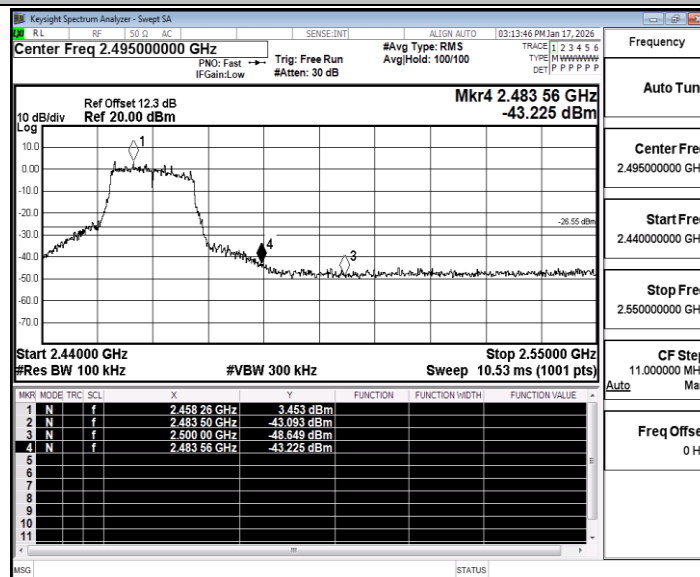
11B_Ant1_High_2462



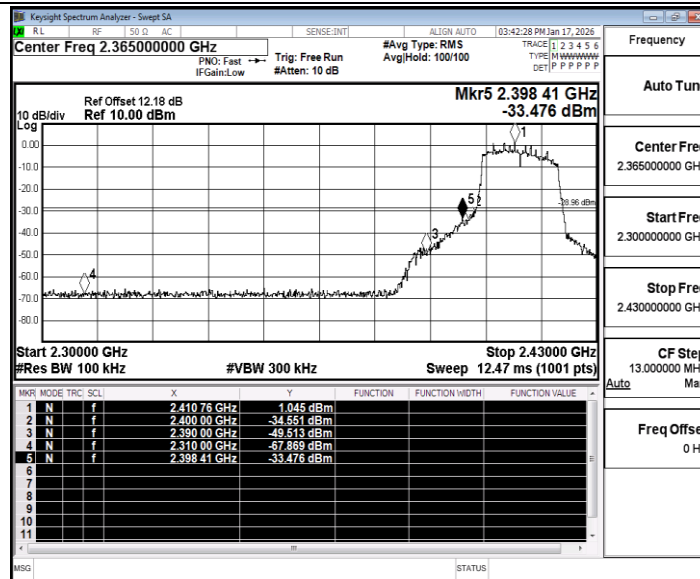
11G_Ant1_Low_2412



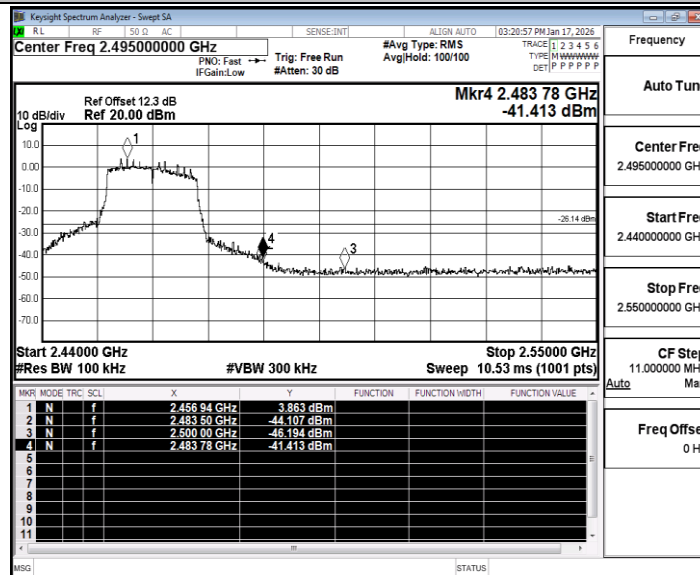
11G_Ant1_High_2462



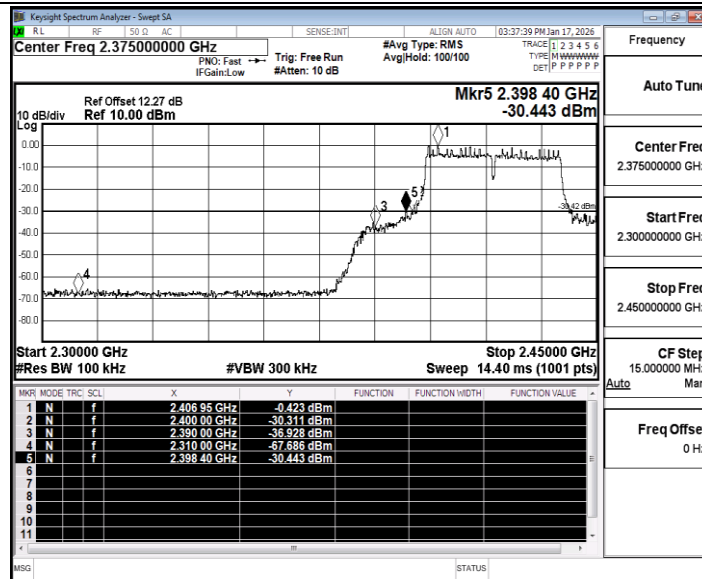
11N20SISO_Ant1_Low_2412



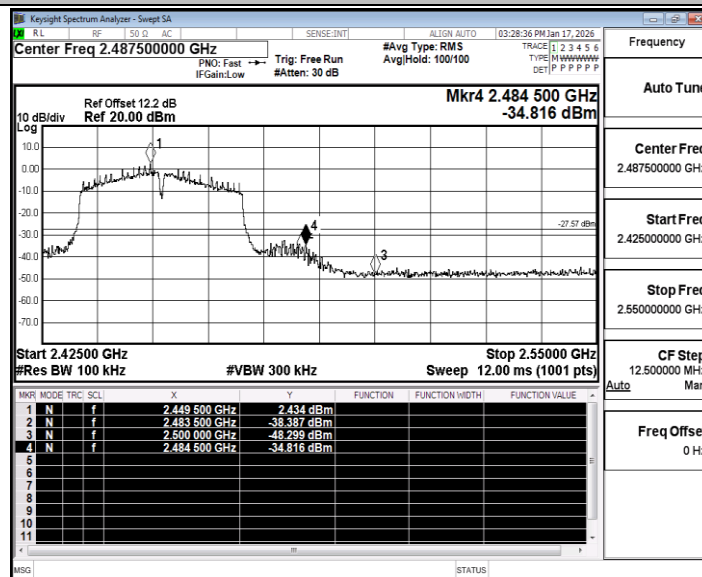
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



C.5 Conducted Spurious Emission

Test Result

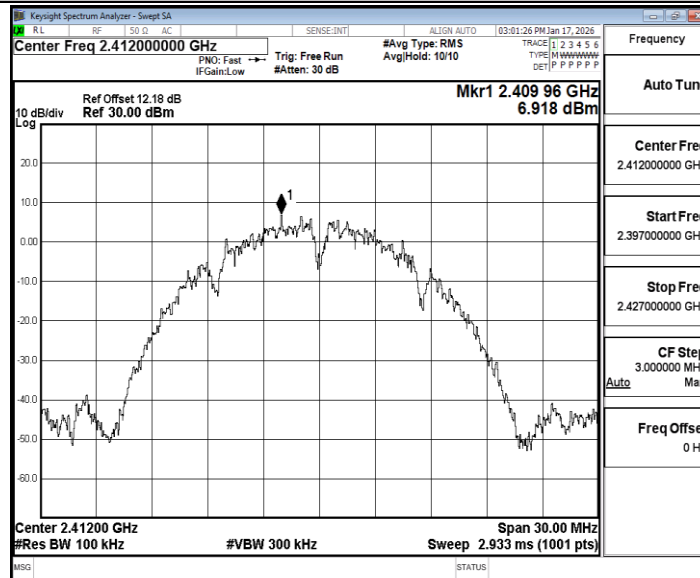
TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.92	6.92	---	PASS
			30~1000	6.92	-65.65	≤-23.08	PASS
			1000~26500	6.92	-45.84	≤-23.08	PASS
		2437	Reference	7.27	7.27	---	PASS
			30~1000	7.27	-66.78	≤-22.73	PASS
			1000~26500	7.27	-47.5	≤-22.73	PASS
		2462	Reference	6.30	6.30	---	PASS
			30~1000	6.30	-65.35	≤-23.7	PASS
			1000~26500	6.30	-46.82	≤-23.7	PASS
11G	Ant1	2412	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-66.47	≤-29.34	PASS
			1000~26500	0.66	-52.6	≤-29.34	PASS
		2437	Reference	3.27	3.27	---	PASS
			30~1000	3.27	-67.35	≤-26.73	PASS
			1000~26500	3.27	-54.56	≤-26.73	PASS
		2462	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-66.5	≤-26.53	PASS
			1000~26500	3.47	-54.68	≤-26.53	PASS
11N20SISO	Ant1	2412	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-66.98	≤-27.04	PASS
			1000~26500	2.96	-54.22	≤-27.04	PASS
		2437	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-67.33	≤-29.13	PASS
			1000~26500	0.87	-53.67	≤-29.13	PASS
		2462	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-65.33	≤-29.58	PASS
			1000~26500	0.42	-54.6	≤-29.58	PASS
11N40SISO	Ant1	2422	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-65.84	≤-30.41	PASS
			1000~26500	-0.41	-53.77	≤-30.41	PASS
		2437	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-66.5	≤-29.94	PASS
			1000~26500	0.06	-54.54	≤-29.94	PASS
		2452	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-66.9	≤-29.41	PASS

			1000~26500	0.59	-54.59	≤-29.41	PASS
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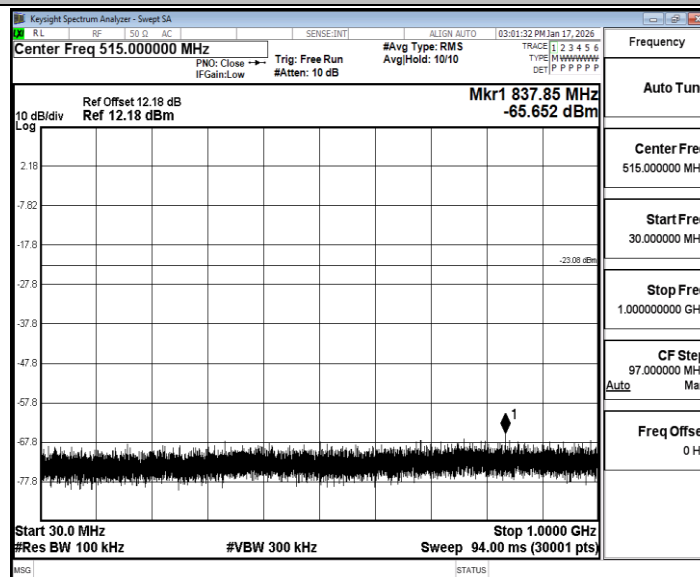
Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

Test Graphs

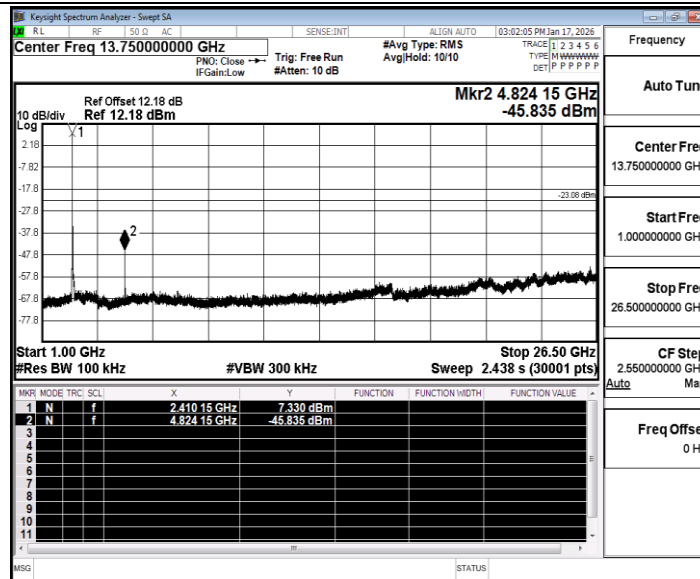
11B_Ant1_2412_0~Reference



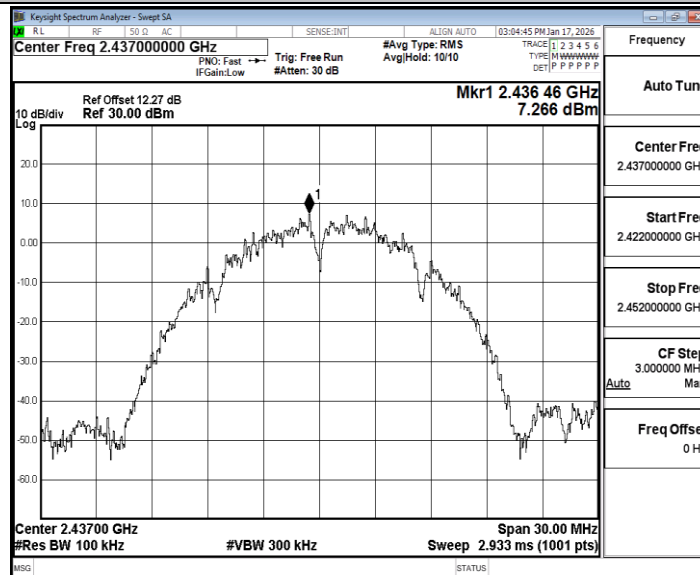
11B_Ant1_2412_30~1000



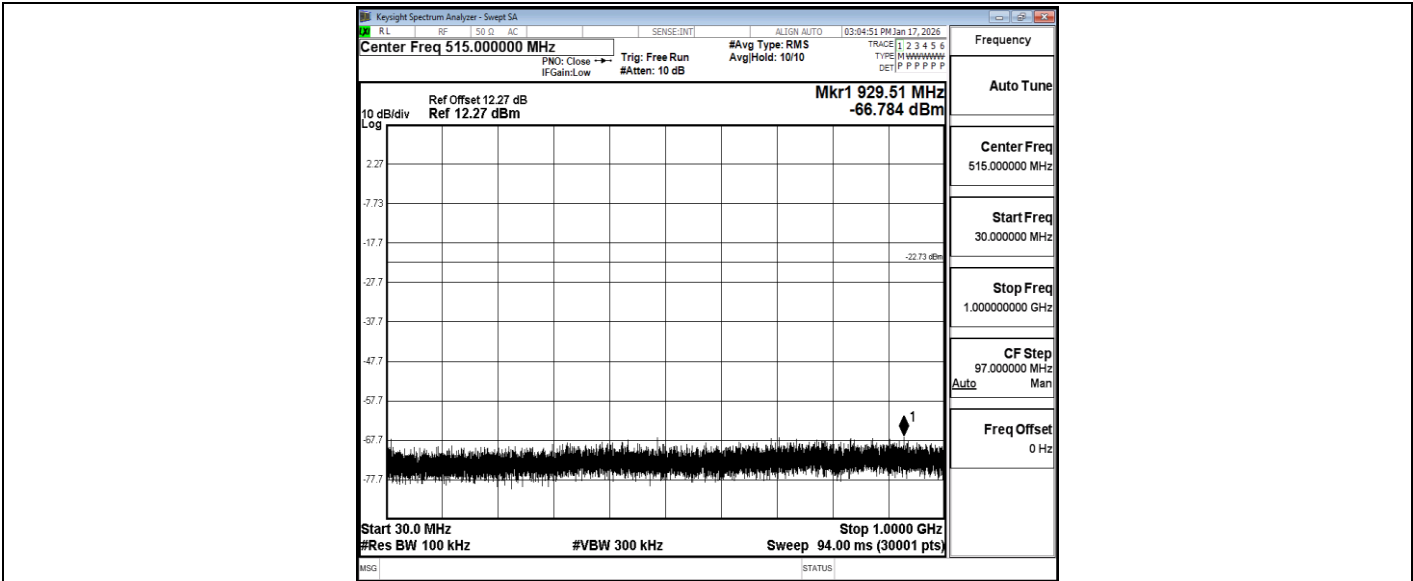
11B_Ant1_2412_1000~26500



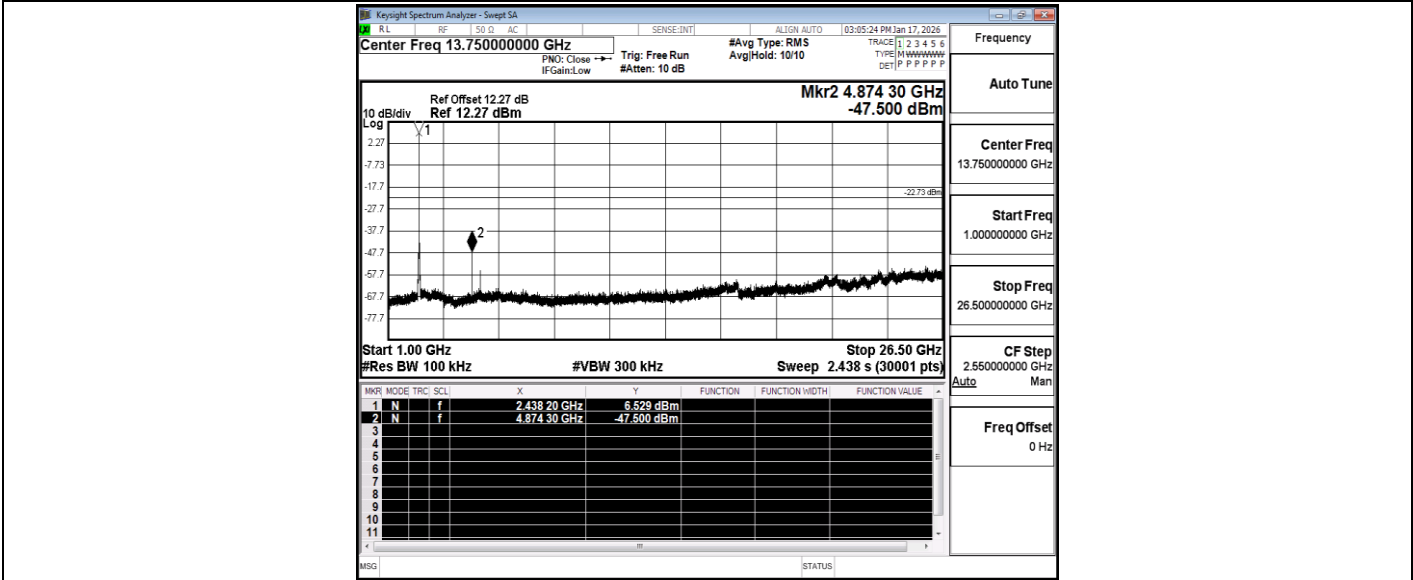
11B_Ant1_2437_0~Reference



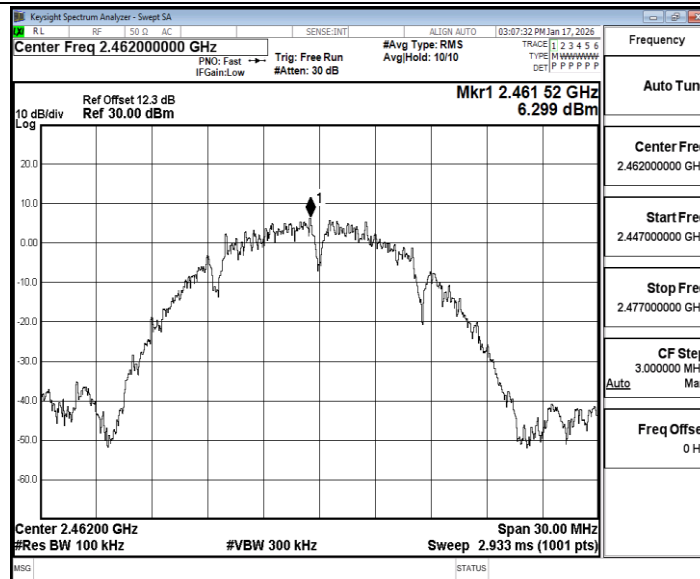
11B_Ant1_2437_30~1000



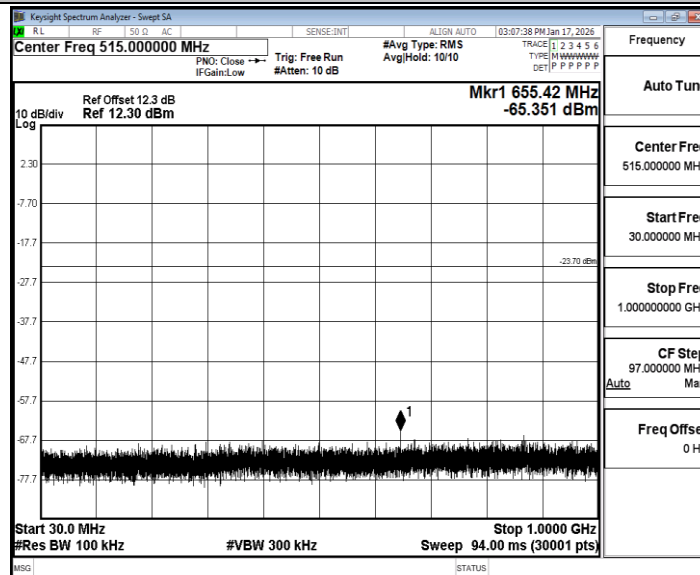
11B_Ant1_2437_1000~26500



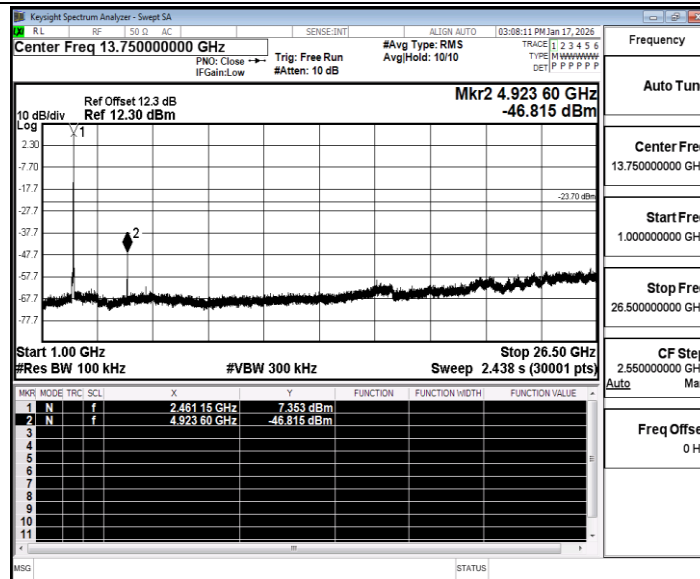
11B_Ant1_2462_0~Reference



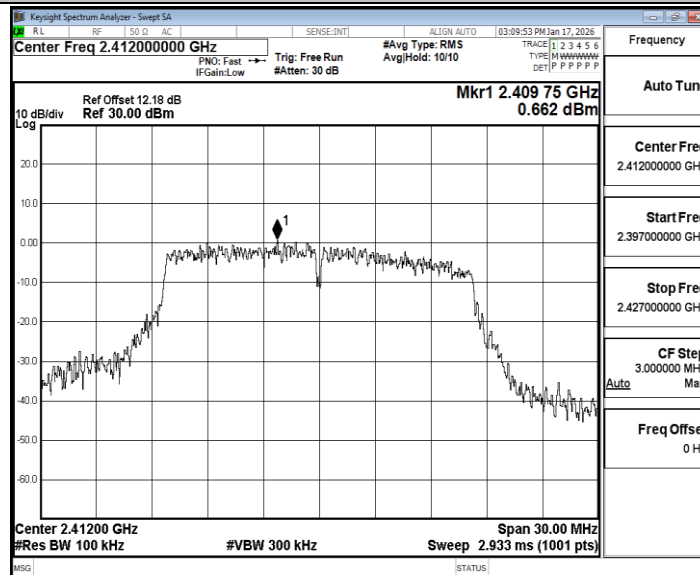
11B_Ant1_2462_30~1000



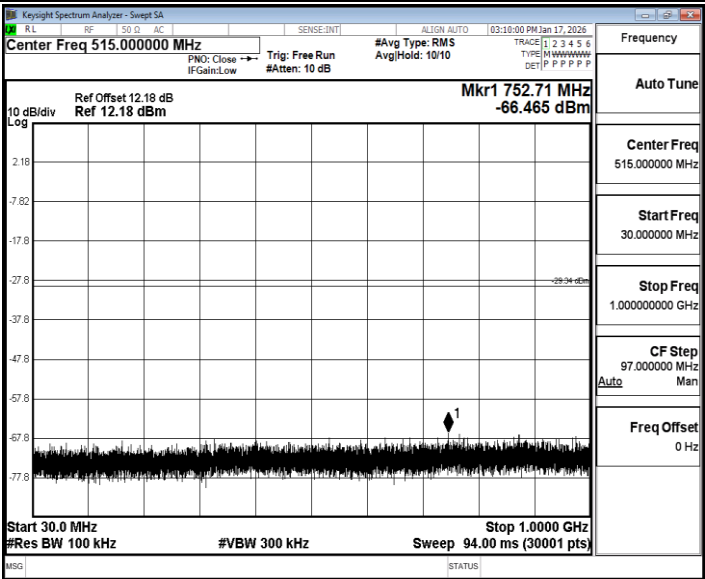
11B_Ant1_2462_1000~26500



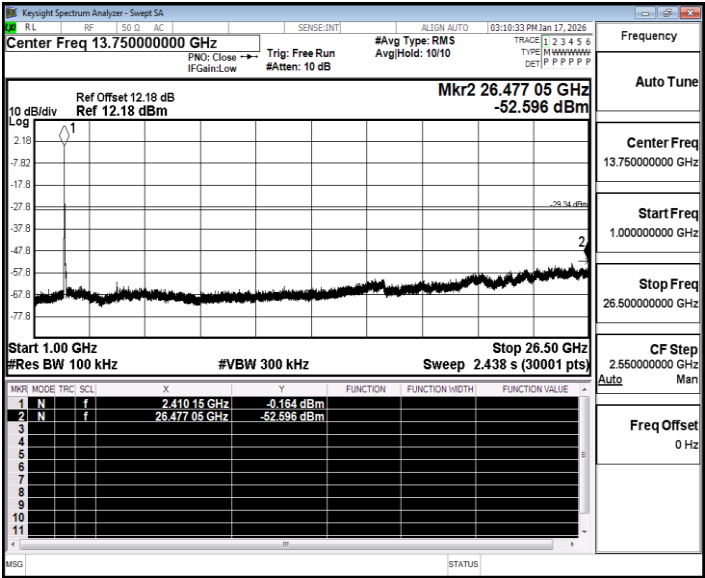
11G_Ant1_2412_0~Reference



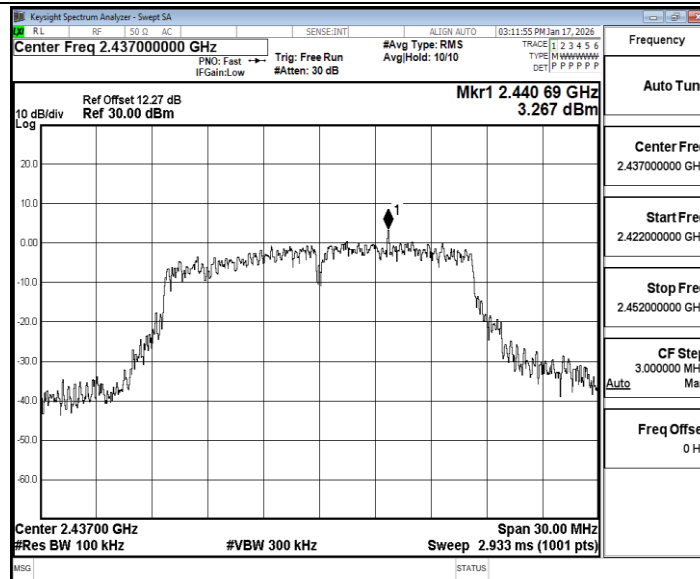
11G_Ant1_2412_30~1000



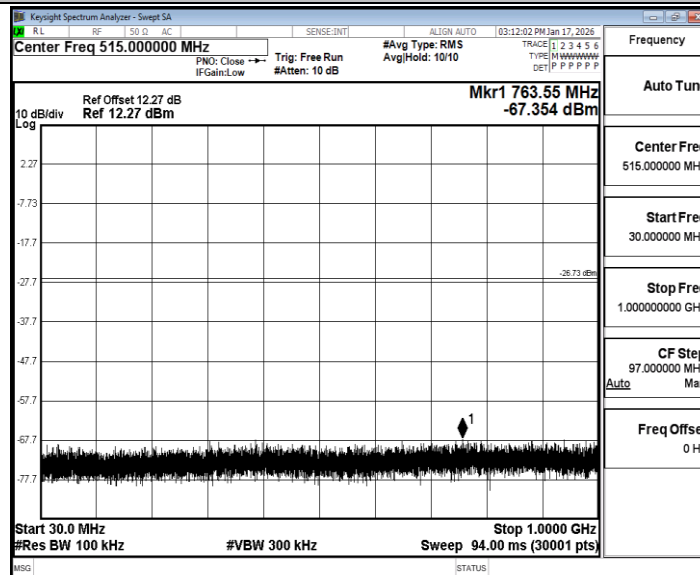
11G_Ant1_2412_1000~26500



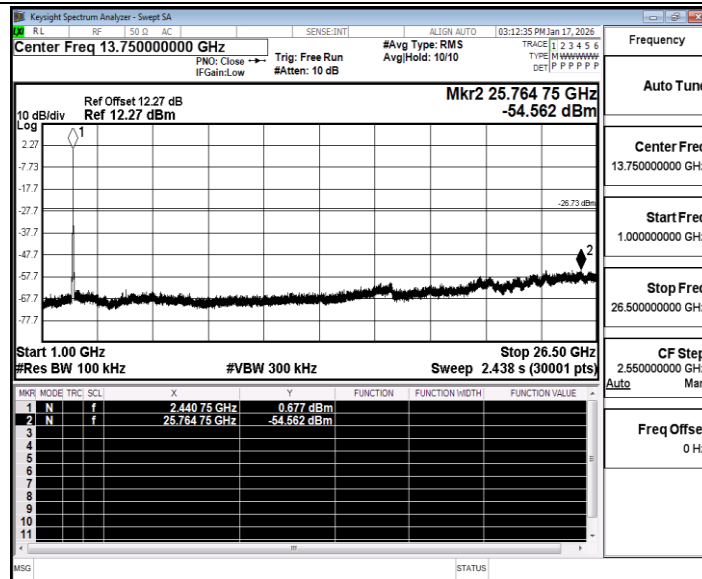
11G_Ant1_2437_0~Reference



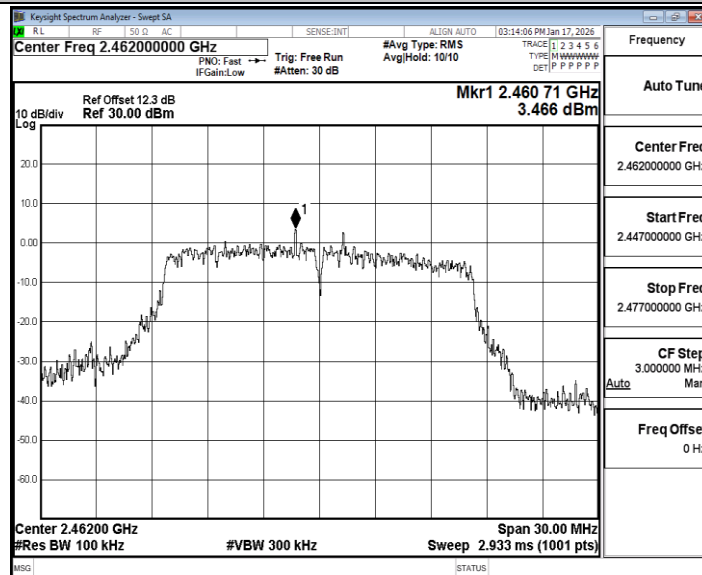
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000