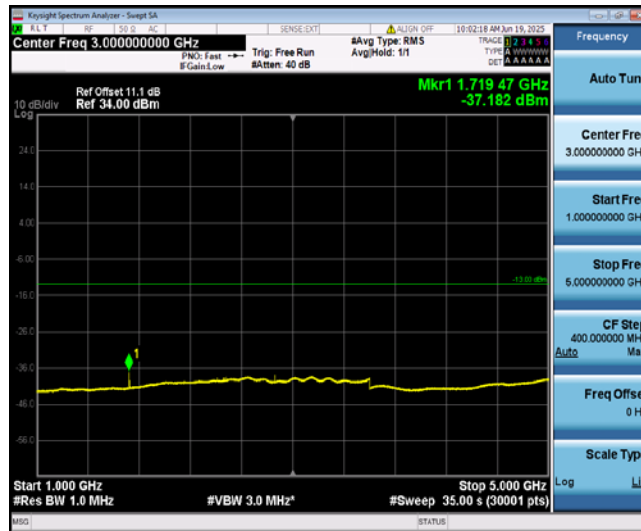




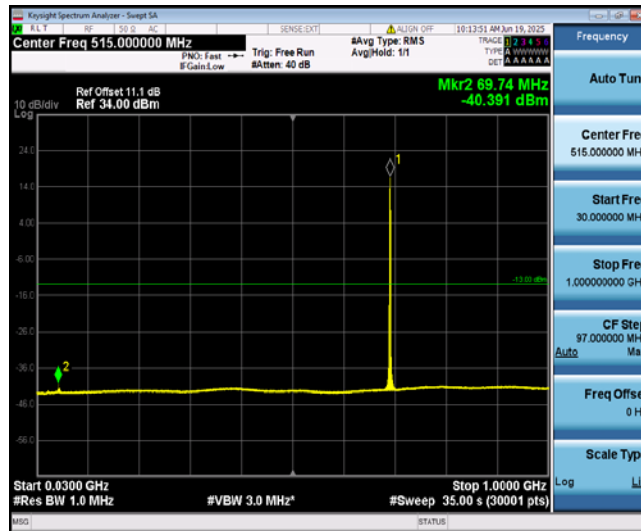
Band12-3MHz-16QAM-23165-1-0-High-1000-5000--37.18-PASS



Band12-3MHz-16QAM-23165-1-0-High-5000-12000--37.33-PASS



Band12-3MHz-16QAM-23165-1-0-High-12000-26500--25.26-PASS



Band12-5MHz-QPSK-23035-1-0-Low-30-1000--40.39-PASS



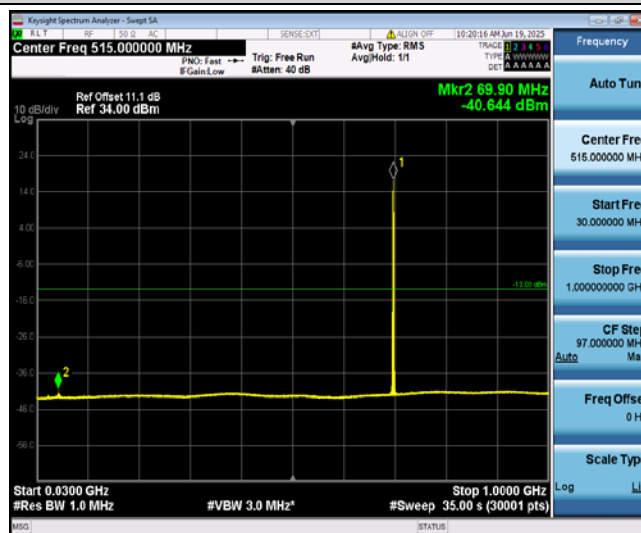
Band12-5MHz-QPSK-23035-1-0-Low-1000-5000--30.81-PASS



Band12-5MHz-QPSK-23035-1-0-Low-5000-12000--37.21-PASS



Band12-5MHz-QPSK-23035-1-0-Low-12000-26500--25.26-PASS



Band12-5MHz-QPSK-23095-1-0-Low-30-1000--40.64-PASS



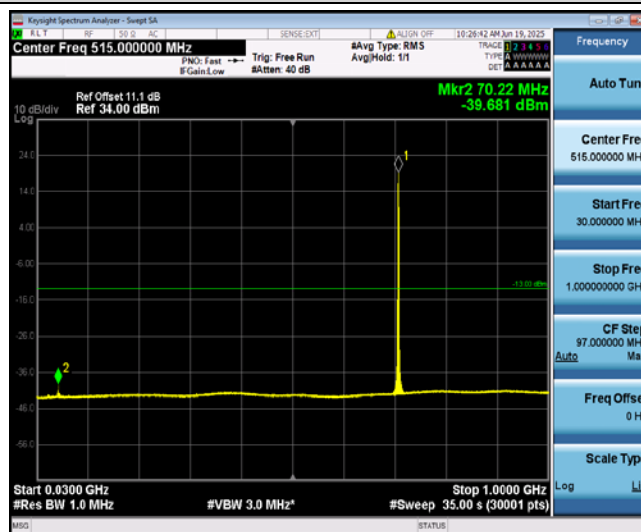
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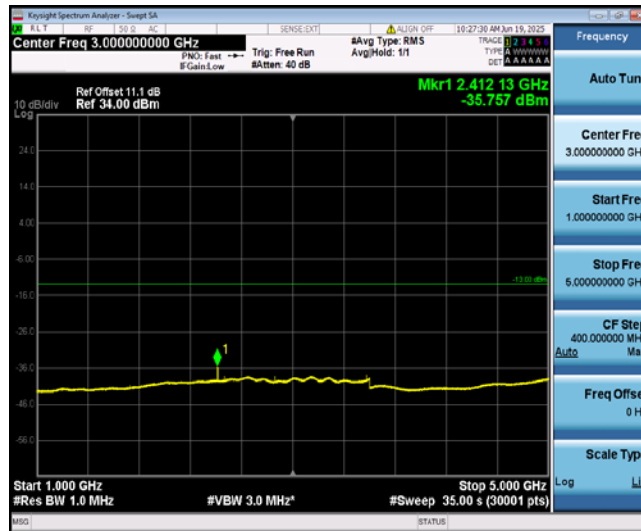
Band12-5MHz-QPSK-23095-1-0-Low-5000-12000--37.24-PASS



Band12-5MHz-QPSK-23095-1-0-Low-12000-26500--25.26-PASS



Band12-5MHz-QPSK-23155-1-0-High-30-1000--39.68-PASS



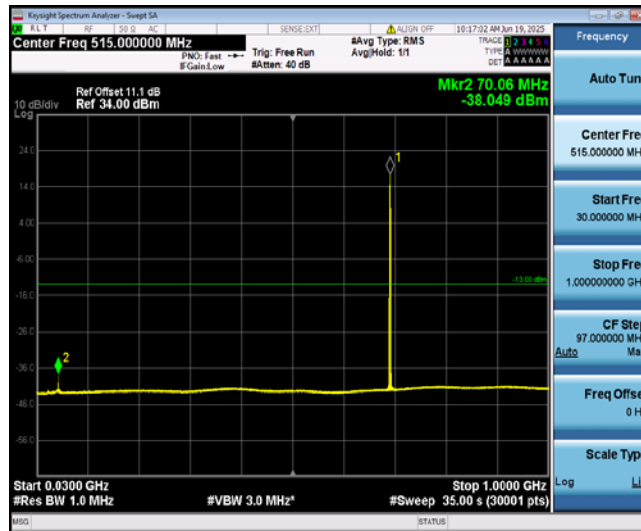
Band12-5MHz-QPSK-23155-1-0-High-1000-5000--35.76-PASS



Band12-5MHz-QPSK-23155-1-0-High-5000-12000--37.21-PASS



Band12-5MHz-QPSK-23155-1-0-High-12000-26500--25.3-PASS



Band12-5MHz-16QAM-23035-1-0-Low-30-1000--38.05-PASS



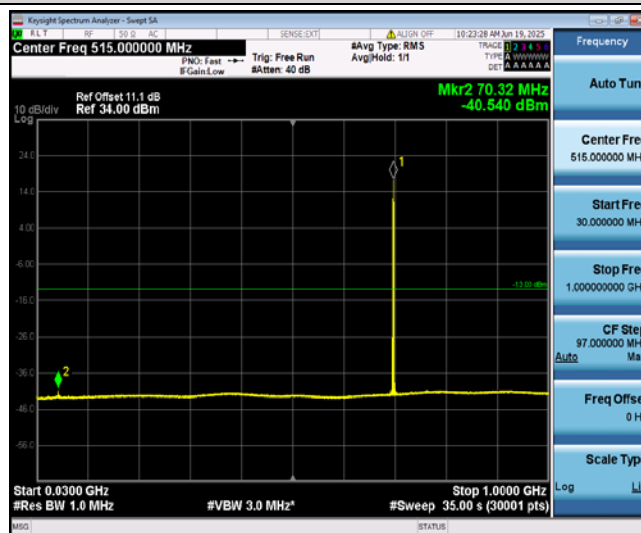
Band12-5MHz-16QAM-23035-1-0-Low-1000-5000--37.88-PASS



Band12-5MHz-16QAM-23035-1-0-Low-5000-12000--37.24-PASS



Band12-5MHz-16QAM-23035-1-0-Low-12000-26500--25.25-PASS



Band12-5MHz-16QAM-23095-1-0-Low-30-1000--40.54-PASS



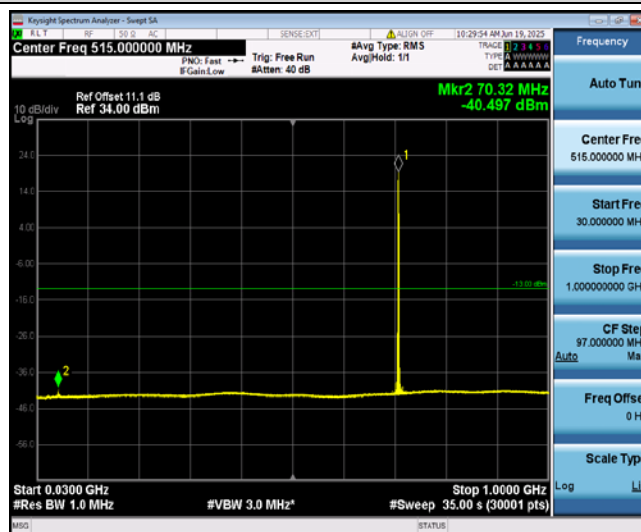
Band12-5MHz-16QAM-23095-1-0-Low-1000-5000--35.38-PASS



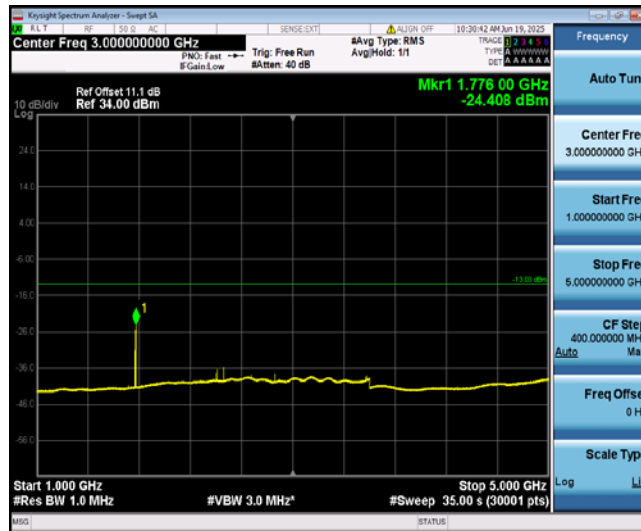
Band12-5MHz-16QAM-23095-1-0-Low-5000-12000--37.23-PASS



Band12-5MHz-16QAM-23095-1-0-Low-12000-26500--25.22-PASS



Band12-5MHz-16QAM-23155-1-0-High-30-1000--40.5-PASS



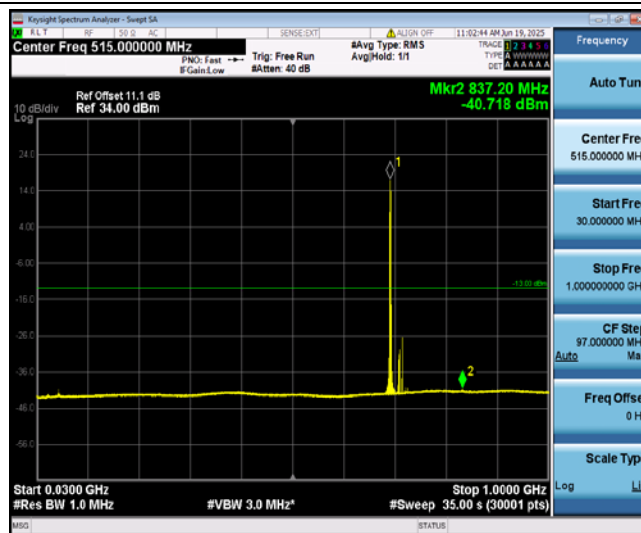
Band12-5MHz-16QAM-23155-1-0-High-1000-5000--24.41-PASS



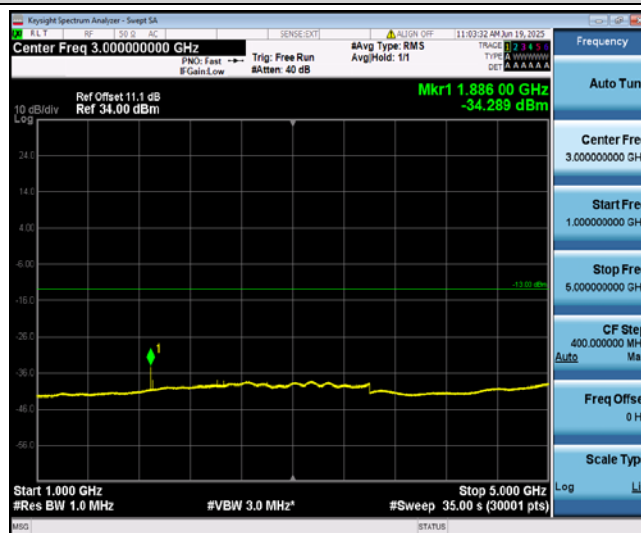
Band12-5MHz-16QAM-23155-1-0-High-5000-12000--37.22-PASS



Band12-5MHz-16QAM-23155-1-0-High-12000-26500--25.11-PASS



Band12-10MHz-QPSK-23060-1-0-Low-30-1000--40.72-PASS



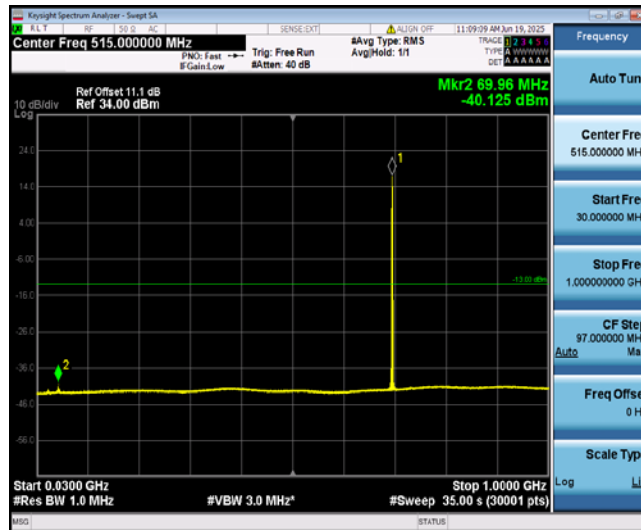
Band12-10MHz-QPSK-23060-1-0-Low-1000-5000--34.29-PASS



Band12-10MHz-QPSK-23060-1-0-Low-5000-12000--37.19-PASS



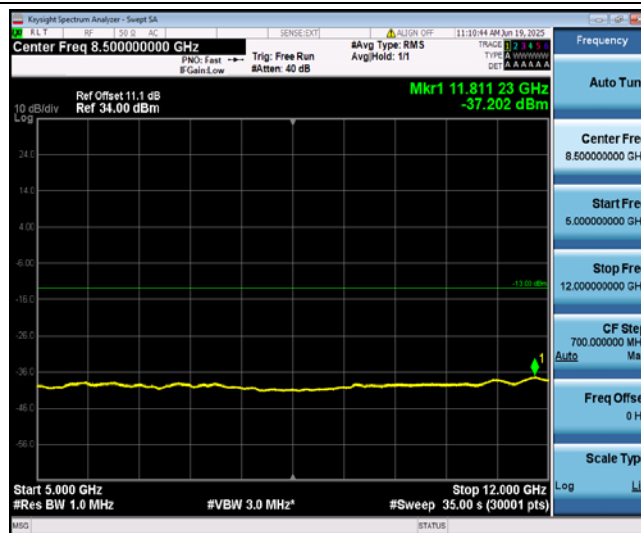
Band12-10MHz-QPSK-23060-1-0-Low-12000-26500--25.28-PASS



Band12-10MHz-QPSK-23095-1-0-Low-30-1000--40.13-PASS



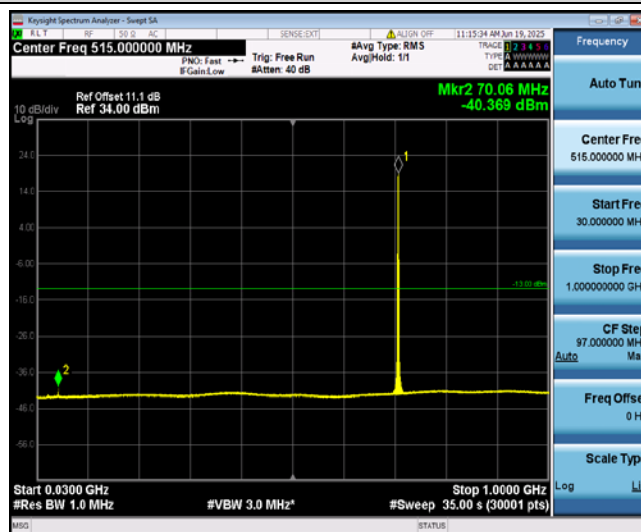
Band12-10MHz-QPSK-23095-1-0-Low-1000-5000--34.77-PASS



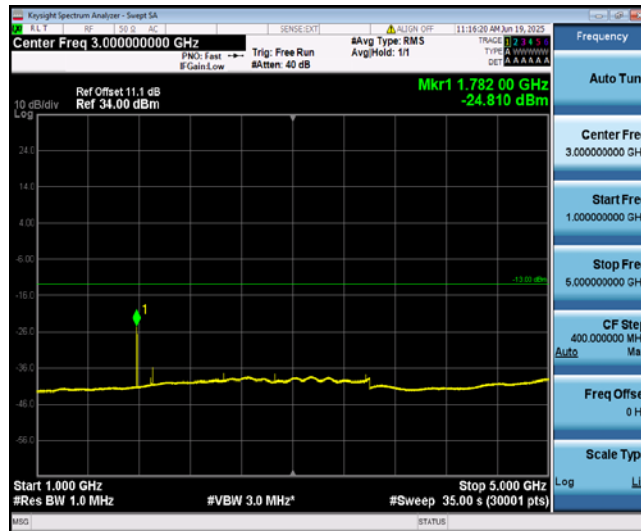
Band12-10MHz-QPSK-23095-1-0-Low-5000-12000--37.2-PASS



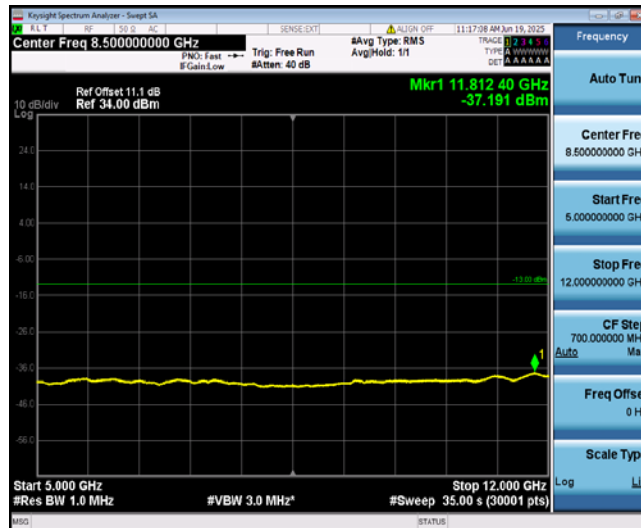
Band12-10MHz-QPSK-23095-1-0-Low-12000-26500--25.16-PASS



Band12-10MHz-QPSK-23130-1-0-High-30-1000--40.37-PASS



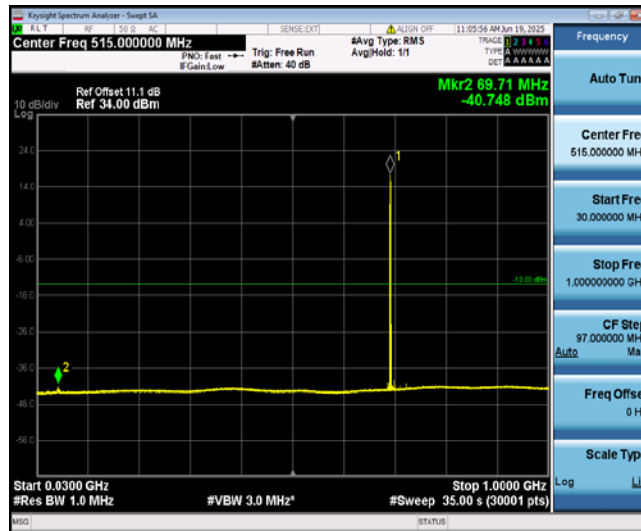
Band12-10MHz-QPSK-23130-1-0-High-1000-5000--24.81-PASS



Band12-10MHz-QPSK-23130-1-0-High-5000-12000--37.19-PASS



Band12-10MHz-QPSK-23130-1-0-High-12000-26500--25.16-PASS



Band12-10MHz-16QAM-23060-1-0-Low-30-1000--40.75-PASS



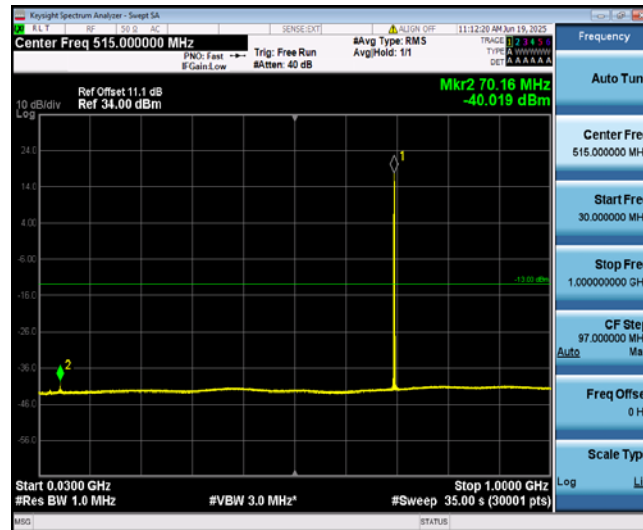
Band12-10MHz-16QAM-23060-1-0-Low-1000-5000--27.66-PASS



Band12-10MHz-16QAM-23060-1-0-Low-5000-12000--37.22-PASS



Band12-10MHz-16QAM-23060-1-0-Low-12000-26500--25.21-PASS



Band12-10MHz-16QAM-23095-1-0-Low-30-1000--40.02-PASS



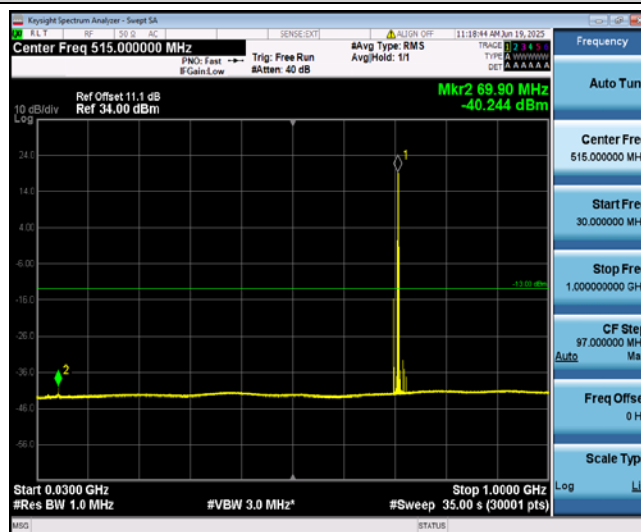
Band12-10MHz-16QAM-23095-1-0-Low-1000-5000--33.25-PASS



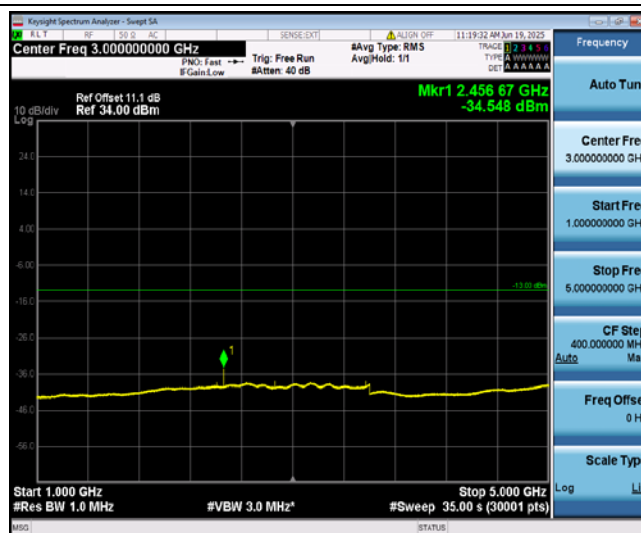
Band12-10MHz-16QAM-23095-1-0-Low-5000-12000--37.2-PASS



Band12-10MHz-16QAM-23095-1-0-Low-12000-26500--25.25-PASS



Band12-10MHz-16QAM-23130-1-0-High-30-1000--40.24-PASS



Band12-10MHz-16QAM-23130-1-0-High-1000-5000--34.55-PASS



Band12-10MHz-16QAM-23130-1-0-High-5000-12000--37.21-PASS



Band12-10MHz-16QAM-23130-1-0-High-12000-26500--25.23-PASS

Appendix F: Frequency stability

Frequency Error VS. Voltage

Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	QPSK/ 10MHz	LCH	TN	VL	0.54	0.0008	PASS
				VN	0.77	0.0011	PASS
				VH	1.55	0.0022	PASS
		MCH	TN	VL	1.44	0.0020	PASS
				VN	2.28	0.0032	PASS
				VH	1.65	0.0023	PASS
		HCH	TN	VL	1.23	0.0017	PASS
				VN	0.95	0.0013	PASS
				VH	1.33	0.0019	PASS
	16QAM/ 10MHz	LCH	TN	VL	0.48	0.0007	PASS
				VN	1.8	0.0026	PASS
				VH	1.07	0.0015	PASS
		MCH	TN	VL	0.89	0.0013	PASS
				VN	0.48	0.0007	PASS
				VH	-2.06	-0.0029	PASS
		HCH	TN	VL	0.67	0.0009	PASS
				VN	-1	-0.0014	PASS
				VH	1.19	0.0017	PASS

Frequency Error VS. Temperature

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	QPSK/ 10MHz	LCH	VN	-30	0.6	0.0009	PASS
				-20	0.37	0.0005	PASS
				-10	0.57	0.0008	PASS
				0	1.2	0.0017	PASS
				10	0.62	0.0009	PASS
				20	0.43	0.0006	PASS
				30	-0.15	-0.0002	PASS
				40	0.23	0.0003	PASS
				50	0.77	0.0011	PASS
		MCH	VN	-30	-1.25	-0.0018	PASS
				-20	-1.26	-0.0018	PASS
				-10	-0.53	-0.0008	PASS
				0	-1.02	-0.0014	PASS
				10	-0.15	-0.0002	PASS
				20	-0.52	-0.0007	PASS
				30	0.6	0.0009	PASS
				40	-0.24	-0.0003	PASS
				50	-1.1	-0.0016	PASS
		HCH	VN	-30	0.79	0.0011	PASS
				-20	0.19	0.0003	PASS
				-10	0.75	0.0010	PASS
				0	-0.5	-0.0007	PASS
				10	-0.65	-0.0009	PASS
				20	0.67	0.0009	PASS
				30	-0.66	-0.0009	PASS
				40	-0.44	-0.0006	PASS
				50	-2.29	-0.0032	PASS

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	16QAM/ 10MHz	LCH	VN	-30	1.52	0.0022	PASS
				-20	1.53	0.0022	PASS
				-10	-0.32	-0.0005	PASS
				0	-1.75	-0.0025	PASS
				10	0.87	0.0012	PASS
				20	0.93	0.0013	PASS
				30	0.85	0.0012	PASS
				40	0.72	0.0010	PASS
				50	1.07	0.0015	PASS
		MCH	VN	-30	-0.25	-0.0004	PASS
				-20	-0.24	-0.0003	PASS
				-10	0.98	0.0014	PASS
				0	-0.3	-0.0004	PASS
				10	-1.56	-0.0022	PASS
				20	1.03	0.0015	PASS
				30	2.1	0.0030	PASS
				40	-0.18	-0.0003	PASS
				50	0.54	0.0008	PASS
		HCH	VN	-30	-0.15	-0.0002	PASS
				-20	0.12	0.0002	PASS
				-10	0.61	0.0009	PASS
				0	-0.52	-0.0007	PASS
				10	-0.37	-0.0005	PASS
				20	0.09	0.0001	PASS
				30	-0.22	-0.0003	PASS
				40	-0.13	-0.0002	PASS
				50	-1.7	-0.0024	PASS

- End of the Appendix -