



















Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.003139	± 2.5	PASS
		VN	TN	-0.001645	± 2.5	PASS
		VH	TN	-0.001922	± 2.5	PASS
	MCH	VL	TN	-0.002020	± 2.5	PASS
		VN	TN	-0.003450	± 2.5	PASS
		VH	TN	-0.004195	± 2.5	PASS
	HCH	VL	TN	-0.003230	± 2.5	PASS
		VN	TN	-0.002242	± 2.5	PASS
		VH	TN	0.000138	± 2.5	PASS
16QAM	LCH	VL	TN	-0.001546	± 2.5	PASS
		VN	TN	-0.001961	± 2.5	PASS
		VH	TN	-0.002023	± 2.5	PASS
	MCH	VL	TN	-0.002125	± 2.5	PASS
		VN	TN	-0.003199	± 2.5	PASS
		VH	TN	-0.002027	± 2.5	PASS
	HCH	VL	TN	-0.003379	± 2.5	PASS
		VN	TN	-0.003860	± 2.5	PASS
		VH	TN	-0.003131	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.003701	± 2.5	PASS
		VN	-20	-0.005570	± 2.5	PASS
		VN	-10	-0.003299	± 2.5	PASS
		VN	0	-0.003422	± 2.5	PASS
		VN	10	-0.002869	± 2.5	PASS
		VN	20	-0.000800	± 2.5	PASS
		VN	30	-0.002872	± 2.5	PASS
		VN	40	-0.004125	± 2.5	PASS
	MCH	VN	50	-0.002242	± 2.5	PASS
		VN	-30	-0.002595	± 2.5	PASS
		VN	-20	-0.003024	± 2.5	PASS
		VN	-10	-0.005927	± 2.5	PASS
		VN	0	-0.004271	± 2.5	PASS
		VN	10	-0.005669	± 2.5	PASS
		VN	20	-0.004020	± 2.5	PASS
		VN	30	-0.004667	± 2.5	PASS
		VN	40	-0.004035	± 2.5	PASS

	HCH	VN	50	-0.003666	± 2.5	PASS
		VN	-30	-0.001050	± 2.5	PASS
		VN	-20	-0.003007	± 2.5	PASS
		VN	-10	-0.005617	± 2.5	PASS
		VN	0	-0.003780	± 2.5	PASS
		VN	10	-0.002530	± 2.5	PASS
		VN	20	-0.003663	± 2.5	PASS
		VN	30	-0.004407	± 2.5	PASS
		VN	40	-0.002097	± 2.5	PASS
		VN	50	-0.002534	± 2.5	PASS
16QAM	LCH	VN	-30	-0.001517	± 2.5	PASS
		VN	-20	-0.001240	± 2.5	PASS
		VN	-10	-0.003897	± 2.5	PASS
		VN	0	-0.002382	± 2.5	PASS
		VN	10	-0.003191	± 2.5	PASS
		VN	20	-0.000509	± 2.5	PASS
		VN	30	-0.005153	± 2.5	PASS
		VN	40	-0.002667	± 2.5	PASS
		VN	50	-0.004050	± 2.5	PASS
	MCH	VN	-30	-0.003017	± 2.5	PASS
		VN	-20	-0.005023	± 2.5	PASS
		VN	-10	-0.002691	± 2.5	PASS
		VN	0	0.000154	± 2.5	PASS
		VN	10	-0.000787	± 2.5	PASS
		VN	20	-0.002583	± 2.5	PASS
		VN	30	-0.005482	± 2.5	PASS
		VN	40	-0.003895	± 2.5	PASS
		VN	50	-0.004434	± 2.5	PASS
	HCH	VN	-30	-0.004606	± 2.5	PASS
		VN	-20	-0.004651	± 2.5	PASS
		VN	-10	-0.003716	± 2.5	PASS
		VN	0	-0.004012	± 2.5	PASS
		VN	10	-0.000646	± 2.5	PASS
		VN	20	-0.002367	± 2.5	PASS
		VN	30	0.000733	± 2.5	PASS
		VN	40	-0.002275	± 2.5	PASS
		VN	50	-0.003972	± 2.5	PASS