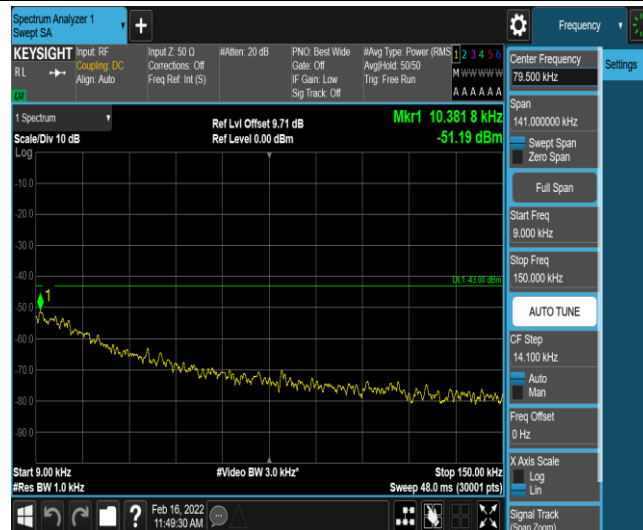




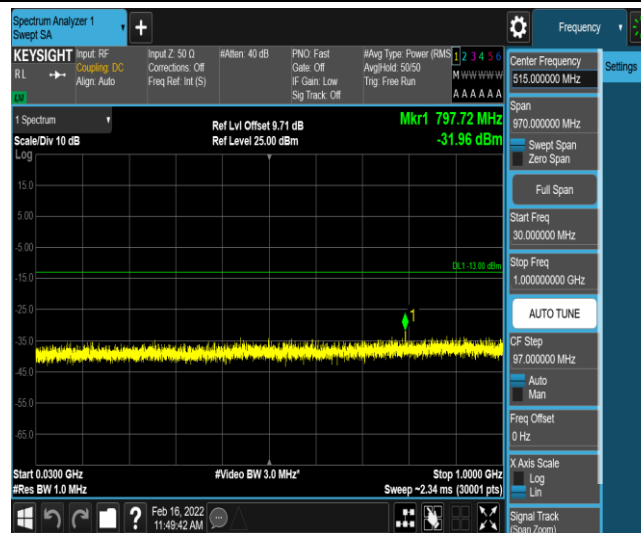
Band66-20MHz-QPSK-132322-1-0-Low-12000-26500--51.31-PASS



Band66-20MHz-QPSK-132572-1-0-High-0.009-0.15--51.19-PASS



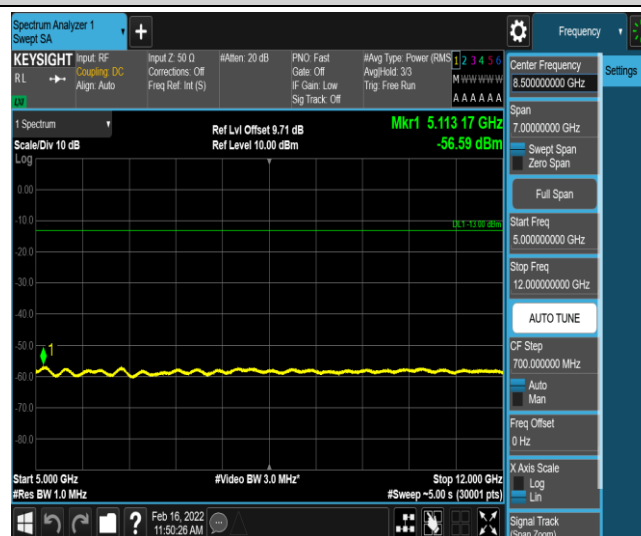
Band66-20MHz-QPSK-132572-1-0-High-0.15-30--50.97-PASS



Band66-20MHz-QPSK-132572-1-0-High-30-1000--31.96-PASS



Band66-20MHz-QPSK-132572-1-0-High-1000-5000--35.65-PASS



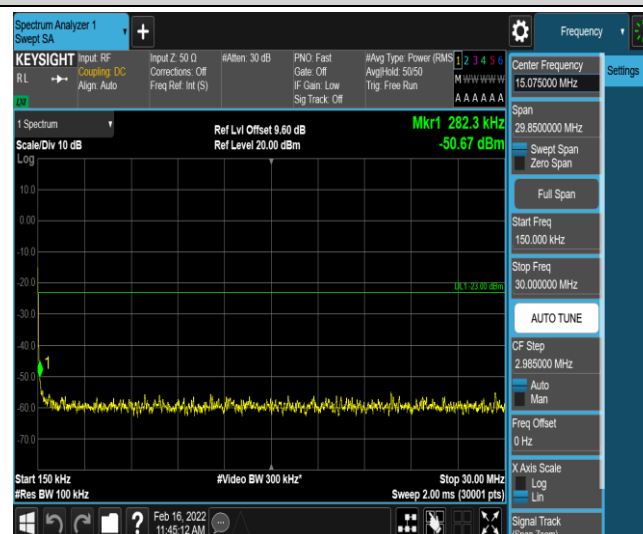
Band66-20MHz-QPSK-132572-1-0-High-5000-12000--56.59-PASS



Band66-20MHz-QPSK-132572-1-0-High-12000-26500--51.38-PASS



Band66-20MHz-16QAM-132072-1-0-Low-0.009-0.15--51.12-PASS



Band66-20MHz-16QAM-132072-1-0-Low-0.15-30--50.67-PASS



Band66-20MHz-16QAM-132072-1-0-Low-30-1000--33.18-PASS



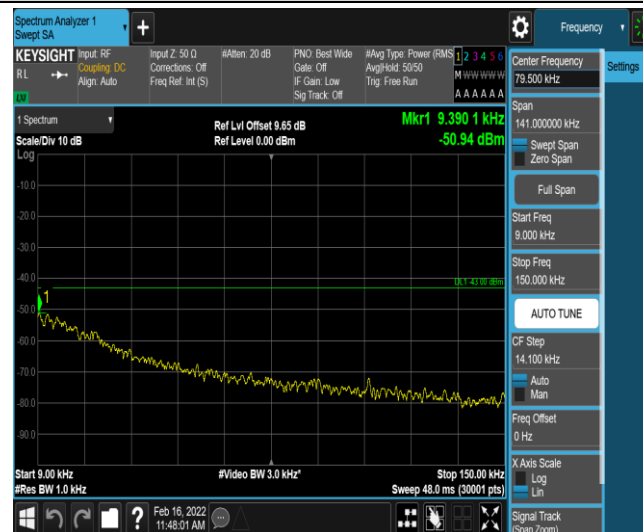
Band66-20MHz-16QAM-132072-1-0-Low-1000-5000--35.55-PASS



Band66-20MHz-16QAM-132072-1-0-Low-5000-12000--56.65-PASS



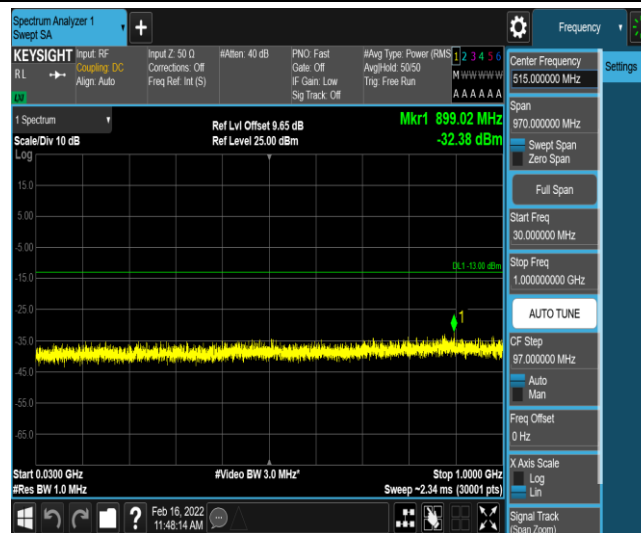
Band66-20MHz-16QAM-132072-1-0-Low-12000-26500--51.34-PASS



Band66-20MHz-16QAM-132322-1-0-Low-0.009-0.15--50.94-PASS



Band66-20MHz-16QAM-132322-1-0-Low-0.15-30--51.21-PASS



Band66-20MHz-16QAM-132322-1-0-Low-30-1000--32.38-PASS



Band66-20MHz-16QAM-132322-1-0-Low-1000-5000--35.59-PASS



Band66-20MHz-16QAM-132322-1-0-Low-5000-12000--56.86-PASS



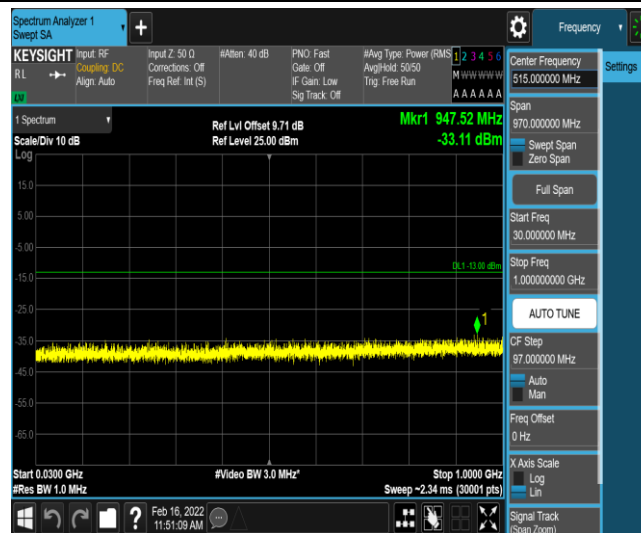
Band66-20MHz-16QAM-132322-1-0-Low-12000-26500--51.07-PASS



Band66-20MHz-16QAM-132572-1-0-High-0.009-0.15--51.32-PASS



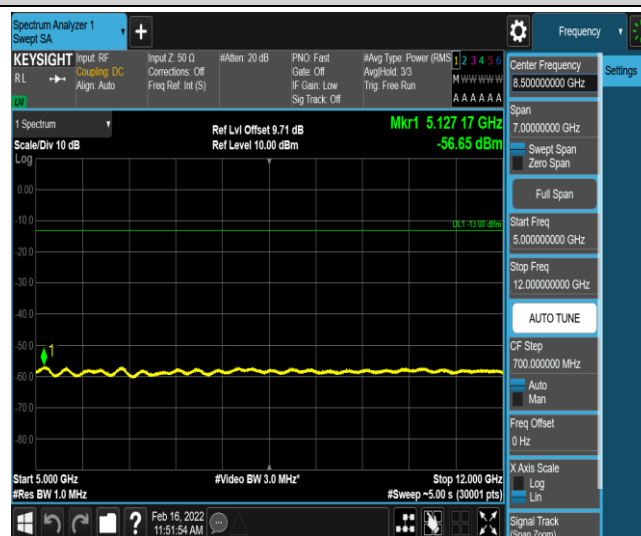
Band66-20MHz-16QAM-132572-1-0-High-0.15-30--50.51-PASS



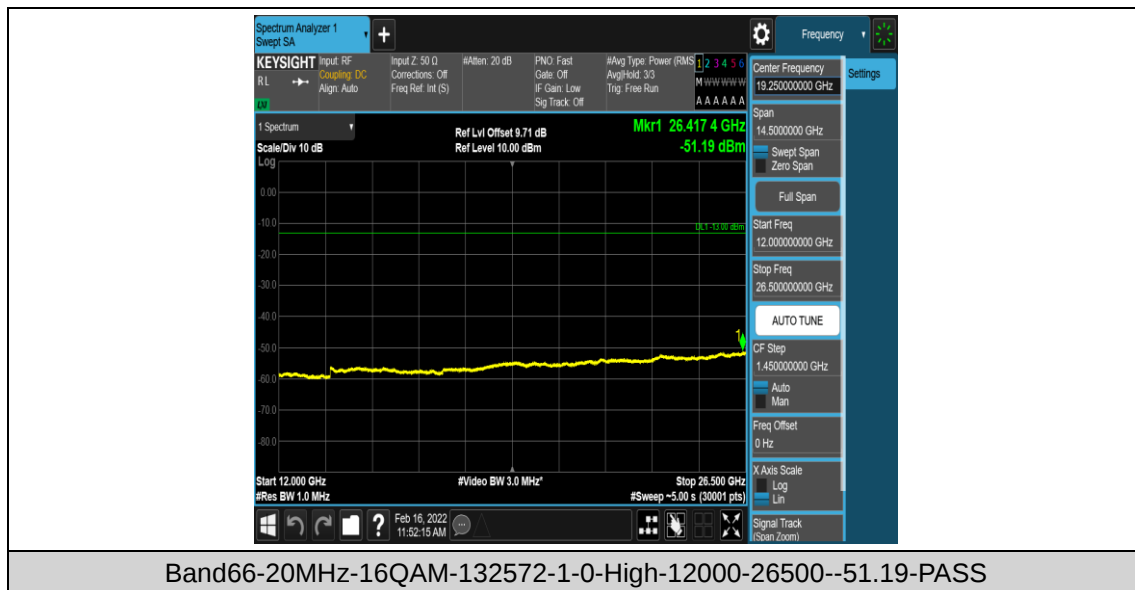
Band66-20MHz-16QAM-132572-1-0-High-30-1000--33.11-PASS



Band66-20MHz-16QAM-132572-1-0-High-1000-5000--35.48-PASS



Band66-20MHz-16QAM-132572-1-0-High-5000-12000--56.65-PASS



Appendix F: Frequency Stability for M1

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.27	0.000742	± 2.5	PASS
		VN	TN	-1.41	-0.000824	± 2.5	PASS
		VH	TN	4.94	0.002888	± 2.5	PASS
	MCH	VL	TN	4.7	0.002693	± 2.5	PASS
		VN	TN	3.93	0.002252	± 2.5	PASS
		VH	TN	0.73	0.000418	± 2.5	PASS
	HCH	VL	TN	-1.53	-0.000860	± 2.5	PASS
		VN	TN	1.13	0.000635	± 2.5	PASS
		VH	TN	-1	-0.000562	± 2.5	PASS
16QAM	LCH	VL	TN	-1.33	-0.000777	± 2.5	PASS
		VN	TN	0.29	0.000170	± 2.5	PASS
		VH	TN	1.17	0.000684	± 2.5	PASS
	MCH	VL	TN	4.41	0.002527	± 2.5	PASS
		VN	TN	0.11	0.000063	± 2.5	PASS
		VH	TN	0.59	0.000338	± 2.5	PASS
	HCH	VL	TN	-0.84	-0.000472	± 2.5	PASS
		VN	TN	1.31	0.000736	± 2.5	PASS
		VH	TN	4.47	0.002512	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.98	0.001742	± 2.5	PASS
		VN	-20	4.3	0.002514	± 2.5	PASS
		VN	-10	0.51	0.000298	± 2.5	PASS
		VN	0	2.5	0.001461	± 2.5	PASS
		VN	10	-1.13	-0.000661	± 2.5	PASS
		VN	20	0.95	0.000555	± 2.5	PASS
		VN	30	3.94	0.002303	± 2.5	PASS
		VN	40	4.23	0.002473	± 2.5	PASS
		VN	50	0.71	0.000415	± 2.5	PASS
	MCH	VN	-30	-1.72	-0.000986	± 2.5	PASS

		VN	-20	-1.59	-0.000911	± 2.5	PASS
		VN	-10	0.91	0.000521	± 2.5	PASS
		VN	0	1.48	0.000848	± 2.5	PASS
		VN	10	-1.67	-0.000957	± 2.5	PASS
		VN	20	-0.09	-0.000052	± 2.5	PASS
		VN	30	1.18	0.000676	± 2.5	PASS
		VN	40	2.9	0.001662	± 2.5	PASS
		VN	50	1.33	0.000762	± 2.5	PASS
	HCH	VN	-30	0.1	0.000056	± 2.5	PASS
		VN	-20	4.47	0.002512	± 2.5	PASS
		VN	-10	-1.67	-0.000939	± 2.5	PASS
		VN	0	0.03	0.000017	± 2.5	PASS
		VN	10	3.4	0.001911	± 2.5	PASS
		VN	20	2.81	0.001579	± 2.5	PASS
		VN	30	-1.24	-0.000697	± 2.5	PASS
		VN	40	-1.53	-0.000860	± 2.5	PASS
		VN	50	3.09	0.001737	± 2.5	PASS
16QAM	LCH	VN	-30	3.4	0.001987	± 2.5	PASS
		VN	-20	3.76	0.002198	± 2.5	PASS
		VN	-10	2.43	0.001420	± 2.5	PASS
		VN	0	3.19	0.001865	± 2.5	PASS
		VN	10	0.5	0.000292	± 2.5	PASS
		VN	20	4.67	0.002730	± 2.5	PASS
		VN	30	0.71	0.000415	± 2.5	PASS
		VN	40	-0.11	-0.000064	± 2.5	PASS
		VN	50	-1.79	-0.001046	± 2.5	PASS
	MCH	VN	-30	3.18	0.001822	± 2.5	PASS
		VN	-20	0.52	0.000298	± 2.5	PASS
		VN	-10	3.38	0.001937	± 2.5	PASS
		VN	0	-0.21	-0.000120	± 2.5	PASS
		VN	10	2.76	0.001582	± 2.5	PASS
		VN	20	1.58	0.000905	± 2.5	PASS
		VN	30	1.22	0.000699	± 2.5	PASS
		VN	40	1.41	0.000808	± 2.5	PASS
		VN	50	4.49	0.002573	± 2.5	PASS
	HCH	VN	-30	1.02	0.000573	± 2.5	PASS
		VN	-20	-0.41	-0.000230	± 2.5	PASS
		VN	-10	3.88	0.002181	± 2.5	PASS
		VN	0	0.55	0.000309	± 2.5	PASS
		VN	10	-0.78	-0.000438	± 2.5	PASS
		VN	20	4	0.002248	± 2.5	PASS

		VN	30	0.57	0.000320	± 2.5	PASS
		VN	40	4.03	0.002265	± 2.5	PASS
		VN	50	3.03	0.001703	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.43	0.001420	± 2.5	PASS
		VN	TN	1.32	0.000771	± 2.5	PASS
		VH	TN	-1.62	-0.000947	± 2.5	PASS
	MCH	VL	TN	1.28	0.000734	± 2.5	PASS
		VN	TN	-1.44	-0.000825	± 2.5	PASS
		VH	TN	-1.28	-0.000734	± 2.5	PASS
	HCH	VL	TN	0.99	0.000556	± 2.5	PASS
		VN	TN	4.3	0.002417	± 2.5	PASS
		VH	TN	3.68	0.002068	± 2.5	PASS
16QAM	LCH	VL	TN	3.82	0.002232	± 2.5	PASS
		VN	TN	-1.36	-0.000795	± 2.5	PASS
		VH	TN	-0.27	-0.000158	± 2.5	PASS
	MCH	VL	TN	2.63	0.001507	± 2.5	PASS
		VN	TN	1.24	0.000711	± 2.5	PASS
		VH	TN	4.99	0.002860	± 2.5	PASS
	HCH	VL	TN	1.24	0.000697	± 2.5	PASS
		VN	TN	0.9	0.000506	± 2.5	PASS
		VH	TN	1.78	0.001000	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.3	-0.000760	± 2.5	PASS
		VN	-20	-1.17	-0.000684	± 2.5	PASS
		VN	-10	0.65	0.000380	± 2.5	PASS
		VN	0	4.32	0.002524	± 2.5	PASS
		VN	10	-0.82	-0.000479	± 2.5	PASS
		VN	20	0.89	0.000520	± 2.5	PASS
		VN	30	0.12	0.000070	± 2.5	PASS
		VN	40	3.49	0.002039	± 2.5	PASS
		VN	50	1.39	0.000812	± 2.5	PASS
	MCH	VN	-30	3.58	0.002052	± 2.5	PASS
		VN	-20	3.5	0.002006	± 2.5	PASS

		VN	-10	4.39	0.002516	± 2.5	PASS
		VN	0	1.46	0.000837	± 2.5	PASS
		VN	10	2.73	0.001564	± 2.5	PASS
		VN	20	2.54	0.001456	± 2.5	PASS
		VN	30	-1.8	-0.001032	± 2.5	PASS
		VN	40	3.56	0.002040	± 2.5	PASS
		VN	50	4.63	0.002653	± 2.5	PASS
	HCH	VN	-30	-1.37	-0.000770	± 2.5	PASS
		VN	-20	3	0.001686	± 2.5	PASS
		VN	-10	2.86	0.001607	± 2.5	PASS
		VN	0	-0.37	-0.000208	± 2.5	PASS
		VN	10	3.97	0.002231	± 2.5	PASS
		VN	20	2.78	0.001562	± 2.5	PASS
		VN	30	-0.04	-0.000022	± 2.5	PASS
		VN	40	2.19	0.001231	± 2.5	PASS
	VN	50	3.87	0.002175	± 2.5	PASS	
QPSK	LCH	VN	-30	4.75	0.002775	± 2.5	PASS
		VN	-20	3.59	0.002098	± 2.5	PASS
		VN	-10	1.41	0.000824	± 2.5	PASS
		VN	0	2.43	0.001420	± 2.5	PASS
		VN	10	0.03	0.000018	± 2.5	PASS
		VN	20	1.45	0.000847	± 2.5	PASS
		VN	30	-0.03	-0.000018	± 2.5	PASS
		VN	40	1.04	0.000608	± 2.5	PASS
		VN	50	-0.53	-0.000310	± 2.5	PASS
	MCH	VN	-30	0.77	0.000441	± 2.5	PASS
		VN	-20	-0.32	-0.000183	± 2.5	PASS
		VN	-10	-0.39	-0.000223	± 2.5	PASS
		VN	0	-1.47	-0.000842	± 2.5	PASS
		VN	10	4.16	0.002384	± 2.5	PASS
		VN	20	2.86	0.001639	± 2.5	PASS
		VN	30	-0.36	-0.000206	± 2.5	PASS
		VN	40	-0.97	-0.000556	± 2.5	PASS
		VN	50	0.09	0.000052	± 2.5	PASS
	HCH	VN	-30	4.45	0.002501	± 2.5	PASS
		VN	-20	3.4	0.001911	± 2.5	PASS
		VN	-10	1.09	0.000613	± 2.5	PASS
		VN	0	4.3	0.002417	± 2.5	PASS
		VN	10	1.29	0.000725	± 2.5	PASS
		VN	20	-1.71	-0.000961	± 2.5	PASS
VN		30	2.36	0.001326	± 2.5	PASS	

		VN	40	0.11	0.000062	± 2.5	PASS
		VN	50	0.75	0.000422	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.59	-0.000345	± 2.5	PASS
		VN	TN	0.58	0.000339	± 2.5	PASS
		VH	TN	1.21	0.000707	± 2.5	PASS
	MCH	VL	TN	-0.53	-0.000304	± 2.5	PASS
		VN	TN	0.69	0.000395	± 2.5	PASS
		VH	TN	2.89	0.001656	± 2.5	PASS
	HCH	VL	TN	-0.54	-0.000304	± 2.5	PASS
		VN	TN	-1.23	-0.000692	± 2.5	PASS
		VH	TN	0.8	0.000450	± 2.5	PASS
16QAM	LCH	VL	TN	2.75	0.001606	± 2.5	PASS
		VN	TN	0.55	0.000321	± 2.5	PASS
		VH	TN	1.52	0.000888	± 2.5	PASS
	MCH	VL	TN	4.7	0.002693	± 2.5	PASS
		VN	TN	4.78	0.002739	± 2.5	PASS
		VH	TN	1.63	0.000934	± 2.5	PASS
	HCH	VL	TN	2.3	0.001293	± 2.5	PASS
		VN	TN	-0.58	-0.000326	± 2.5	PASS
		VH	TN	-1.44	-0.000810	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.61	0.000356	± 2.5	PASS
		VN	-20	-1.68	-0.000981	± 2.5	PASS
		VN	-10	3.23	0.001886	± 2.5	PASS
		VN	0	1.29	0.000753	± 2.5	PASS
		VN	10	4.84	0.002826	± 2.5	PASS
		VN	20	-0.3	-0.000175	± 2.5	PASS
		VN	30	3.95	0.002307	± 2.5	PASS
		VN	40	2.98	0.001740	± 2.5	PASS
		VN	50	4.57	0.002669	± 2.5	PASS
	MCH	VN	-30	2.38	0.001364	± 2.5	PASS
		VN	-20	-1.63	-0.000934	± 2.5	PASS
		VN	-10	3.31	0.001897	± 2.5	PASS

		VN	0	-0.53	-0.000304	± 2.5	PASS
		VN	10	-1.24	-0.000711	± 2.5	PASS
		VN	20	-1.36	-0.000779	± 2.5	PASS
		VN	30	2.79	0.001599	± 2.5	PASS
		VN	40	-0.27	-0.000155	± 2.5	PASS
		VN	50	-0.16	-0.000092	± 2.5	PASS
	HCH	VN	-30	-0.6	-0.000337	± 2.5	PASS
		VN	-20	0.71	0.000399	± 2.5	PASS
		VN	-10	-0.54	-0.000304	± 2.5	PASS
		VN	0	2.87	0.001614	± 2.5	PASS
		VN	10	-1.34	-0.000753	± 2.5	PASS
		VN	20	-1.38	-0.000776	± 2.5	PASS
		VN	30	0.3	0.000169	± 2.5	PASS
		VN	40	-0.45	-0.000253	± 2.5	PASS
		VN	50	1.79	0.001006	± 2.5	PASS
16QAM	LCH	VN	-30	3.25	0.001898	± 2.5	PASS
		VN	-20	-1.03	-0.000601	± 2.5	PASS
		VN	-10	-0.1	-0.000058	± 2.5	PASS
		VN	0	2.45	0.001431	± 2.5	PASS
		VN	10	-1.19	-0.000695	± 2.5	PASS
		VN	20	-1.36	-0.000794	± 2.5	PASS
		VN	30	0.16	0.000093	± 2.5	PASS
		VN	40	1.92	0.001121	± 2.5	PASS
		VN	50	4.83	0.002820	± 2.5	PASS
	MCH	VN	-30	-0.51	-0.000292	± 2.5	PASS
		VN	-20	0.89	0.000510	± 2.5	PASS
		VN	-10	0.11	0.000063	± 2.5	PASS
		VN	0	1.13	0.000648	± 2.5	PASS
		VN	10	2.32	0.001330	± 2.5	PASS
		VN	20	2.75	0.001576	± 2.5	PASS
		VN	30	-0.62	-0.000355	± 2.5	PASS
		VN	40	3.24	0.001857	± 2.5	PASS
		VN	50	2.33	0.001335	± 2.5	PASS
	HCH	VN	-30	-0.57	-0.000320	± 2.5	PASS
		VN	-20	3.76	0.002114	± 2.5	PASS
		VN	-10	0.85	0.000478	± 2.5	PASS
		VN	0	1.54	0.000866	± 2.5	PASS
		VN	10	-1.38	-0.000776	± 2.5	PASS
		VN	20	0.7	0.000394	± 2.5	PASS
		VN	30	-1.03	-0.000579	± 2.5	PASS
		VN	40	-1.77	-0.000995	± 2.5	PASS

		VN	50	2.09	0.001175	± 2.5	PASS
--	--	----	----	------	----------	-------	------

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.33	0.001942	± 2.5	PASS
		VN	TN	-0.81	-0.000472	± 2.5	PASS
		VH	TN	2.33	0.001359	± 2.5	PASS
	MCH	VL	TN	4.48	0.002567	± 2.5	PASS
		VN	TN	4.46	0.002556	± 2.5	PASS
		VH	TN	-0.63	-0.000361	± 2.5	PASS
	HCH	VL	TN	4.27	0.002402	± 2.5	PASS
		VN	TN	-0.95	-0.000534	± 2.5	PASS
		VH	TN	-1.55	-0.000872	± 2.5	PASS
16QAM	LCH	VL	TN	-1.18	-0.000688	± 2.5	PASS
		VN	TN	1.63	0.000950	± 2.5	PASS
		VH	TN	2.53	0.001475	± 2.5	PASS
	MCH	VL	TN	3.66	0.002097	± 2.5	PASS
		VN	TN	1.4	0.000802	± 2.5	PASS
		VH	TN	0.89	0.000510	± 2.5	PASS
	HCH	VL	TN	4.79	0.002695	± 2.5	PASS
		VN	TN	3.77	0.002121	± 2.5	PASS
		VH	TN	-0.4	-0.000225	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	5	0.002915	± 2.5	PASS
		VN	-20	-0.63	-0.000367	± 2.5	PASS
		VN	-10	2.79	0.001627	± 2.5	PASS
		VN	0	-0.07	-0.000041	± 2.5	PASS
		VN	10	3.08	0.001796	± 2.5	PASS
		VN	20	0.21	0.000122	± 2.5	PASS
		VN	30	-0.79	-0.000461	± 2.5	PASS
		VN	40	3.26	0.001901	± 2.5	PASS
		VN	50	3.27	0.001907	± 2.5	PASS
	MCH	VN	-30	0.4	0.000229	± 2.5	PASS
		VN	-20	-1.08	-0.000619	± 2.5	PASS
		VN	-10	-0.73	-0.000418	± 2.5	PASS
		VN	0	1.46	0.000837	± 2.5	PASS

		VN	10	1.83	0.001049	± 2.5	PASS
		VN	20	3.81	0.002183	± 2.5	PASS
		VN	30	-0.33	-0.000189	± 2.5	PASS
		VN	40	-0.07	-0.000040	± 2.5	PASS
		VN	50	0.69	0.000395	± 2.5	PASS
	HCH	VN	-30	4.07	0.002290	± 2.5	PASS
		VN	-20	1.94	0.001091	± 2.5	PASS
		VN	-10	2.4	0.001350	± 2.5	PASS
		VN	0	4.47	0.002515	± 2.5	PASS
		VN	10	-1.55	-0.000872	± 2.5	PASS
		VN	20	-0.88	-0.000495	± 2.5	PASS
		VN	30	4.96	0.002790	± 2.5	PASS
		VN	40	0.43	0.000242	± 2.5	PASS
		VN	50	-1.61	-0.000906	± 2.5	PASS
		VN	-30	0.83	0.000484	± 2.5	PASS
QPSK	LCH	VN	-20	-0.07	-0.000041	± 2.5	PASS
		VN	-10	4.24	0.002472	± 2.5	PASS
		VN	0	-0.59	-0.000344	± 2.5	PASS
		VN	10	-1.52	-0.000886	± 2.5	PASS
		VN	20	-1.8	-0.001050	± 2.5	PASS
		VN	30	1.93	0.001125	± 2.5	PASS
		VN	40	-0.14	-0.000082	± 2.5	PASS
		VN	50	4.02	0.002344	± 2.5	PASS
	MCH	VN	-30	3.14	0.001799	± 2.5	PASS
		VN	-20	2.39	0.001370	± 2.5	PASS
		VN	-10	-1.74	-0.000997	± 2.5	PASS
		VN	0	-1.79	-0.001026	± 2.5	PASS
		VN	10	0.12	0.000069	± 2.5	PASS
		VN	20	-1.88	-0.001077	± 2.5	PASS
		VN	30	-0.76	-0.000436	± 2.5	PASS
		VN	40	-1.23	-0.000705	± 2.5	PASS
		VN	50	2.51	0.001438	± 2.5	PASS
	HCH	VN	-30	-1.41	-0.000793	± 2.5	PASS
		VN	-20	4.3	0.002419	± 2.5	PASS
		VN	-10	3.96	0.002228	± 2.5	PASS
		VN	0	-0.86	-0.000484	± 2.5	PASS
		VN	10	1.98	0.001114	± 2.5	PASS
		VN	20	-0.5	-0.000281	± 2.5	PASS
		VN	30	4.44	0.002498	± 2.5	PASS
		VN	40	-1.84	-0.001035	± 2.5	PASS
		VN	50	-1.53	-0.000861	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.68	0.001560	± 2.5	PASS
		VN	TN	-1.22	-0.000710	± 2.5	PASS
		VH	TN	-0.19	-0.000111	± 2.5	PASS
	MCH	VL	TN	1.55	0.000888	± 2.5	PASS
		VN	TN	4.58	0.002625	± 2.5	PASS
		VH	TN	-1.34	-0.000768	± 2.5	PASS
	HCH	VL	TN	3.07	0.001730	± 2.5	PASS
		VN	TN	-0.95	-0.000535	± 2.5	PASS
		VH	TN	-0.56	-0.000315	± 2.5	PASS
16QAM	LCH	VL	TN	-0.48	-0.000279	± 2.5	PASS
		VN	TN	-1.7	-0.000990	± 2.5	PASS
		VH	TN	0.38	0.000221	± 2.5	PASS
	MCH	VL	TN	-1.68	-0.000963	± 2.5	PASS
		VN	TN	1.9	0.001089	± 2.5	PASS
		VH	TN	0.8	0.000458	± 2.5	PASS
	HCH	VL	TN	-0.75	-0.000423	± 2.5	PASS
		VN	TN	-0.17	-0.000096	± 2.5	PASS
		VH	TN	4.6	0.002592	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.61	0.002684	± 2.5	PASS
		VN	-20	-0.56	-0.000326	± 2.5	PASS
		VN	-10	0.07	0.000041	± 2.5	PASS
		VN	0	2.38	0.001386	± 2.5	PASS
		VN	10	3.15	0.001834	± 2.5	PASS
		VN	20	3.01	0.001753	± 2.5	PASS
		VN	30	1.16	0.000675	± 2.5	PASS
		VN	40	2.22	0.001293	± 2.5	PASS
		VN	50	1.52	0.000885	± 2.5	PASS
	MCH	VN	-30	3.42	0.001960	± 2.5	PASS
		VN	-20	4.19	0.002401	± 2.5	PASS
		VN	-10	1.2	0.000688	± 2.5	PASS
		VN	0	1.87	0.001072	± 2.5	PASS
		VN	10	-0.93	-0.000533	± 2.5	PASS
		VN	20	0.07	0.000041	± 2.5	PASS

		VN	20	1.62	0.000928	± 2.5	PASS
		VN	30	0.47	0.000269	± 2.5	PASS
		VN	40	0.58	0.000332	± 2.5	PASS
		VN	50	1.03	0.000590	± 2.5	PASS
	HCH	VN	-30	-1.06	-0.000597	± 2.5	PASS
		VN	-20	3.87	0.002180	± 2.5	PASS
		VN	-10	-0.75	-0.000423	± 2.5	PASS
		VN	0	3.69	0.002079	± 2.5	PASS
		VN	10	3.32	0.001870	± 2.5	PASS
		VN	20	0.49	0.000276	± 2.5	PASS
		VN	30	-1.33	-0.000749	± 2.5	PASS
		VN	40	3.72	0.002096	± 2.5	PASS
		VN	50	-1.36	-0.000766	± 2.5	PASS
		VN	-30	3.44	0.002003	± 2.5	PASS
		VN	-20	3.57	0.002079	± 2.5	PASS
		VN	-10	3.7	0.002154	± 2.5	PASS
		VN	0	-0.47	-0.000274	± 2.5	PASS
		VN	10	0.72	0.000419	± 2.5	PASS
QPSK	LCH	VN	20	4.77	0.002777	± 2.5	PASS
		VN	30	0.89	0.000518	± 2.5	PASS
		VN	40	0.6	0.000349	± 2.5	PASS
		VN	50	4.03	0.002346	± 2.5	PASS
	MCH	VN	-30	1.35	0.000774	± 2.5	PASS
		VN	-20	3.5	0.002006	± 2.5	PASS
		VN	-10	-0.85	-0.000487	± 2.5	PASS
		VN	0	-0.52	-0.000298	± 2.5	PASS
		VN	10	-0.42	-0.000241	± 2.5	PASS
		VN	20	0.33	0.000189	± 2.5	PASS
		VN	30	2.44	0.001398	± 2.5	PASS
		VN	40	3.2	0.001834	± 2.5	PASS
		VN	50	-0.85	-0.000487	± 2.5	PASS
	HCH	VN	-30	-0.4	-0.000225	± 2.5	PASS
		VN	-20	-0.82	-0.000462	± 2.5	PASS
		VN	-10	1.26	0.000710	± 2.5	PASS
		VN	0	0.58	0.000327	± 2.5	PASS
		VN	10	-0.6	-0.000338	± 2.5	PASS
		VN	20	-0.68	-0.000383	± 2.5	PASS
		VN	30	4.8	0.002704	± 2.5	PASS
		VN	40	0.16	0.000090	± 2.5	PASS
		VN	50	3.05	0.001718	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.58	0.000919	± 2.5	PASS
		VN	TN	2.35	0.001366	± 2.5	PASS
		VH	TN	2.32	0.001349	± 2.5	PASS
	MCH	VL	TN	4.87	0.002791	± 2.5	PASS
		VN	TN	0.94	0.000539	± 2.5	PASS
		VH	TN	-0.69	-0.000395	± 2.5	PASS
	HCH	VL	TN	-1.93	-0.001089	± 2.5	PASS
		VN	TN	0.54	0.000305	± 2.5	PASS
		VH	TN	-1.97	-0.001111	± 2.5	PASS
16QAM	LCH	VL	TN	2.52	0.001465	± 2.5	PASS
		VN	TN	1	0.000581	± 2.5	PASS
		VH	TN	0.59	0.000343	± 2.5	PASS
	MCH	VL	TN	2.39	0.001370	± 2.5	PASS
		VN	TN	-0.02	-0.000011	± 2.5	PASS
		VH	TN	2.09	0.001198	± 2.5	PASS
	HCH	VL	TN	3.75	0.002116	± 2.5	PASS
		VN	TN	3.6	0.002031	± 2.5	PASS
		VH	TN	-1.1	-0.000621	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.98	0.002895	± 2.5	PASS
		VN	-20	3.28	0.001907	± 2.5	PASS
		VN	-10	2.27	0.001320	± 2.5	PASS
		VN	0	-0.94	-0.000547	± 2.5	PASS
		VN	10	1.22	0.000709	± 2.5	PASS
		VN	20	1.99	0.001157	± 2.5	PASS
		VN	30	4.03	0.002343	± 2.5	PASS
		VN	40	0.57	0.000331	± 2.5	PASS
		VN	50	3.28	0.001907	± 2.5	PASS
	MCH	VN	-30	0.23	0.000132	± 2.5	PASS
		VN	-20	-1.68	-0.000963	± 2.5	PASS
		VN	-10	4.05	0.002321	± 2.5	PASS
		VN	0	1.98	0.001135	± 2.5	PASS
		VN	10	3.96	0.002269	± 2.5	PASS
		VN	20	0.05	0.000029	± 2.5	PASS

		VN	30	3.02	0.001731	± 2.5	PASS
		VN	40	4.18	0.002395	± 2.5	PASS
		VN	50	4.16	0.002384	± 2.5	PASS
	HCH	VN	-30	1.17	0.000660	± 2.5	PASS
		VN	-20	-1.98	-0.001117	± 2.5	PASS
		VN	-10	0.76	0.000429	± 2.5	PASS
		VN	0	0.3	0.000169	± 2.5	PASS
		VN	10	-1.97	-0.001111	± 2.5	PASS
		VN	20	-1.38	-0.000779	± 2.5	PASS
		VN	30	-1.68	-0.000948	± 2.5	PASS
		VN	40	-0.22	-0.000124	± 2.5	PASS
		VN	50	-0.95	-0.000536	± 2.5	PASS
QPSK	LCH	VN	-30	2.36	0.001372	± 2.5	PASS
		VN	-20	1.18	0.000686	± 2.5	PASS
		VN	-10	-1.17	-0.000680	± 2.5	PASS
		VN	0	-0.8	-0.000465	± 2.5	PASS
		VN	10	-1.33	-0.000773	± 2.5	PASS
		VN	20	3.82	0.002221	± 2.5	PASS
		VN	30	-1.35	-0.000785	± 2.5	PASS
		VN	40	3.54	0.002058	± 2.5	PASS
		VN	50	2.63	0.001529	± 2.5	PASS
	MCH	VN	-30	3.46	0.001983	± 2.5	PASS
		VN	-20	2.71	0.001553	± 2.5	PASS
		VN	-10	0	0.000000	± 2.5	PASS
		VN	0	0.7	0.000401	± 2.5	PASS
		VN	10	-0.67	-0.000384	± 2.5	PASS
		VN	20	0.6	0.000344	± 2.5	PASS
		VN	30	1.88	0.001077	± 2.5	PASS
		VN	40	3.08	0.001765	± 2.5	PASS
		VN	50	3.54	0.002029	± 2.5	PASS
	HCH	VN	-30	0.25	0.000141	± 2.5	PASS
		VN	-20	1.32	0.000745	± 2.5	PASS
		VN	-10	2.48	0.001399	± 2.5	PASS
		VN	0	4.81	0.002714	± 2.5	PASS
		VN	10	3.68	0.002076	± 2.5	PASS
		VN	20	2.2	0.001241	± 2.5	PASS
		VN	30	3.76	0.002121	± 2.5	PASS
		VN	40	-0.37	-0.000209	± 2.5	PASS
		VN	50	2.06	0.001162	± 2.5	PASS