

		VN	0	3.83	0.002037	± 2.5	PASS
		VN	10	-1.59	-0.000846	± 2.5	PASS
		VN	20	2.01	0.001069	± 2.5	PASS
		VN	30	3.71	0.001973	± 2.5	PASS
		VN	40	3.45	0.001835	± 2.5	PASS
		VN	50	3.56	0.001894	± 2.5	PASS
	HCH	VN	-30	4.86	0.002555	± 2.5	PASS
		VN	-20	-1.51	-0.000794	± 2.5	PASS
		VN	-10	-1.29	-0.000678	± 2.5	PASS
		VN	0	0.43	0.000226	± 2.5	PASS
		VN	10	1.76	0.000925	± 2.5	PASS
		VN	20	-0.4	-0.000210	± 2.5	PASS
		VN	30	0.48	0.000252	± 2.5	PASS
		VN	40	3.72	0.001955	± 2.5	PASS
		VN	50	-0.54	-0.000284	± 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	1.79	0.000962	± 2.5	PASS
		VN	TN	1.89	0.001016	± 2.5	PASS
		VH	TN	1.35	0.000726	± 2.5	PASS
	MCH	VL	TN	-1.28	-0.000681	± 2.5	PASS
		VN	TN	0.09	0.000048	± 2.5	PASS
		VH	TN	0.06	0.000032	± 2.5	PASS
	HCH	VL	TN	4.49	0.002363	± 2.5	PASS
		VN	TN	4.65	0.002447	± 2.5	PASS
		VH	TN	-0.3	-0.000158	± 2.5	PASS
16QAM	LCH	VL	TN	-1.45	-0.000780	± 2.5	PASS
		VN	TN	-0.6	-0.000323	± 2.5	PASS
		VH	TN	4.12	0.002215	± 2.5	PASS
	MCH	VL	TN	0.25	0.000133	± 2.5	PASS
		VN	TN	4.08	0.002170	± 2.5	PASS
		VH	TN	0.07	0.000037	± 2.5	PASS
	HCH	VL	TN	0.94	0.000495	± 2.5	PASS
		VN	TN	2.22	0.001168	± 2.5	PASS
		VH	TN	-0.72	-0.000379	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.95	0.000511	± 2.5	PASS
		VN	-20	3.73	0.002005	± 2.5	PASS
		VN	-10	-0.07	-0.000038	± 2.5	PASS
		VN	0	1.41	0.000758	± 2.5	PASS
		VN	10	-0.63	-0.000339	± 2.5	PASS
		VN	20	3.18	0.001710	± 2.5	PASS
		VN	30	2.57	0.001382	± 2.5	PASS

		VN	40	-0.75	-0.000403	± 2.5	PASS
		VN	50	1.65	0.000887	± 2.5	PASS
	MCH	VN	-30	-1.74	-0.000926	± 2.5	PASS
		VN	-20	4.67	0.002484	± 2.5	PASS
		VN	-10	2.09	0.001112	± 2.5	PASS
		VN	0	3.68	0.001957	± 2.5	PASS
		VN	10	0.72	0.000383	± 2.5	PASS
		VN	20	2.87	0.001527	± 2.5	PASS
		VN	30	3.04	0.001617	± 2.5	PASS
		VN	40	1.45	0.000771	± 2.5	PASS
		VN	50	2.29	0.001218	± 2.5	PASS
		HCH	VN	-30	4.63	0.002437	± 2.5
	VN		-20	0.84	0.000442	± 2.5	PASS
	VN		-10	3.66	0.001926	± 2.5	PASS
	VN		0	1.21	0.000637	± 2.5	PASS
	VN		10	5	0.002632	± 2.5	PASS
	VN		20	1.3	0.000684	± 2.5	PASS
	VN		30	-0.49	-0.000258	± 2.5	PASS
	VN		40	1.08	0.000568	± 2.5	PASS
	16QAM	LCH	VN	-30	-0.3	-0.000161	± 2.5
VN			-20	-0.49	-0.000263	± 2.5	PASS
VN			-10	1.3	0.000699	± 2.5	PASS
VN			0	1.23	0.000661	± 2.5	PASS
VN			10	-1.18	-0.000634	± 2.5	PASS
VN			20	1.11	0.000597	± 2.5	PASS
VN			30	2.64	0.001419	± 2.5	PASS
VN			40	3.75	0.002016	± 2.5	PASS
MCH		VN	50	0.01	0.000005	± 2.5	PASS
		VN	-30	1.01	0.000537	± 2.5	PASS
		VN	-20	-0.54	-0.000287	± 2.5	PASS
		VN	-10	-1.45	-0.000771	± 2.5	PASS
		VN	0	3.97	0.002112	± 2.5	PASS
		VN	10	-1.23	-0.000654	± 2.5	PASS
		VN	20	2.63	0.001399	± 2.5	PASS
		VN	30	1.97	0.001048	± 2.5	PASS
		VN	40	-1.22	-0.000649	± 2.5	PASS
		VN	50	3.48	0.001851	± 2.5	PASS
HCH		VN	-30	-0.28	-0.000147	± 2.5	PASS
		VN	-20	4.76	0.002505	± 2.5	PASS
	VN	-10	2.42	0.001274	± 2.5	PASS	
	VN	0	2.61	0.001374	± 2.5	PASS	
	VN	10	-0.72	-0.000379	± 2.5	PASS	
	VN	20	3.3	0.001737	± 2.5	PASS	
	VN	30	-1.78	-0.000937	± 2.5	PASS	
	VN	40	2.94	0.001547	± 2.5	PASS	
	VN	50	4.74	0.002495	± 2.5	PASS	

**Band 4**

**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	-1.17	-0.000684	± 2.5	PASS
		VN	TN	-1.24	-0.000725	± 2.5	PASS
		VH	TN	3	0.001754	± 2.5	PASS
	MCH	VL	TN	2.03	0.001172	± 2.5	PASS
		VN	TN	3.37	0.001945	± 2.5	PASS
		VH	TN	3.14	0.001812	± 2.5	PASS
	HCH	VL	TN	1.16	0.000661	± 2.5	PASS
		VN	TN	4.97	0.002833	± 2.5	PASS
		VH	TN	3.77	0.002149	± 2.5	PASS
16QAM	LCH	VL	TN	-1.41	-0.000824	± 2.5	PASS
		VN	TN	-1.84	-0.001076	± 2.5	PASS
		VH	TN	1.9	0.001111	± 2.5	PASS
	MCH	VL	TN	4.45	0.002569	± 2.5	PASS
		VN	TN	-0.96	-0.000554	± 2.5	PASS
		VH	TN	2.86	0.001651	± 2.5	PASS
	HCH	VL	TN	3.85	0.002195	± 2.5	PASS
		VN	TN	4.99	0.002844	± 2.5	PASS
		VH	TN	2.12	0.001208	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.33	0.002531	± 2.5	PASS
		VN	-20	2.47	0.001444	± 2.5	PASS
		VN	-10	-0.59	-0.000345	± 2.5	PASS
		VN	0	-1.41	-0.000824	± 2.5	PASS
		VN	10	1.7	0.000994	± 2.5	PASS
		VN	20	2.52	0.001473	± 2.5	PASS
		VN	30	2.99	0.001748	± 2.5	PASS
		VN	40	-0.58	-0.000339	± 2.5	PASS
	MCH	VN	50	4.15	0.002426	± 2.5	PASS
		VN	-30	3.77	0.002176	± 2.5	PASS
		VN	-20	2.34	0.001351	± 2.5	PASS
		VN	-10	-0.79	-0.000456	± 2.5	PASS
		VN	0	-1.54	-0.000889	± 2.5	PASS
		VN	10	2.62	0.001512	± 2.5	PASS
		VN	20	3.36	0.001939	± 2.5	PASS
		VN	30	2.56	0.001478	± 2.5	PASS
	HCH	VN	40	-1.72	-0.000993	± 2.5	PASS
		VN	50	-0.53	-0.000306	± 2.5	PASS
		VN	-30	2.05	0.001169	± 2.5	PASS
		VN	-20	-1.89	-0.001077	± 2.5	PASS
		VN	-10	0.71	0.000405	± 2.5	PASS
		VN	0	3.39	0.001932	± 2.5	PASS

		VN	10	-1.84	-0.001049	± 2.5	PASS	
		VN	20	2.32	0.001322	± 2.5	PASS	
		VN	30	0.17	0.000097	± 2.5	PASS	
		VN	40	3.72	0.002121	± 2.5	PASS	
		VN	50	-1.34	-0.000764	± 2.5	PASS	
16QAM	LCH	VN	-30	4.26	0.002490	± 2.5	PASS	
		VN	-20	4.4	0.002572	± 2.5	PASS	
		VN	-10	4.52	0.002642	± 2.5	PASS	
		VN	0	0.34	0.000199	± 2.5	PASS	
		VN	10	-1.83	-0.001070	± 2.5	PASS	
		VN	20	3.27	0.001911	± 2.5	PASS	
		VN	30	-0.76	-0.000444	± 2.5	PASS	
		VN	40	1.55	0.000906	± 2.5	PASS	
		VN	50	0.6	0.000351	± 2.5	PASS	
		MCH	VN	-30	-1.34	-0.000764	± 2.5	PASS
	VN		-20	3.38	0.001927	± 2.5	PASS	
	VN		-10	1.79	0.001020	± 2.5	PASS	
	VN		0	4.17	0.002377	± 2.5	PASS	
	VN		10	2.69	0.001533	± 2.5	PASS	
	VN		20	1.87	0.001066	± 2.5	PASS	
	VN		30	4.19	0.002388	± 2.5	PASS	
	VN		40	3.43	0.001955	± 2.5	PASS	
	VN		50	1.65	0.000941	± 2.5	PASS	
	HCH		VN	-30	2.67	0.001522	± 2.5	PASS
		VN	-20	1.55	0.000884	± 2.5	PASS	
		VN	-10	-1.95	-0.001112	± 2.5	PASS	
		VN	0	-0.72	-0.000410	± 2.5	PASS	
		VN	10	-0.43	-0.000245	± 2.5	PASS	
		VN	20	3.18	0.001813	± 2.5	PASS	
		VN	30	2.77	0.001579	± 2.5	PASS	
		VN	40	-1.43	-0.000815	± 2.5	PASS	
			VN	50	0.77	0.000439	± 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	1.19	0.000695	± 2.5	PASS
		VN	TN	3.04	0.001776	± 2.5	PASS
		VH	TN	2.69	0.001572	± 2.5	PASS
	MCH	VL	TN	2.74	0.001582	± 2.5	PASS
		VN	TN	2.73	0.001576	± 2.5	PASS
		VH	TN	4.82	0.002782	± 2.5	PASS
	HCH	VL	TN	2.47	0.001409	± 2.5	PASS
		VN	TN	2.08	0.001186	± 2.5	PASS
		VH	TN	-0.84	-0.000479	± 2.5	PASS
16QAM	LCH	VL	TN	-0.25	-0.000146	± 2.5	PASS
		VN	TN	-1.22	-0.000713	± 2.5	PASS

	MCH	VH	TN	3.36	0.001963	± 2.5	PASS	
		VL	TN	-1.09	-0.000629	± 2.5	PASS	
		VN	TN	-0.36	-0.000208	± 2.5	PASS	
	HCH	VH	TN	-1.56	-0.000900	± 2.5	PASS	
		VL	TN	-1.62	-0.000924	± 2.5	PASS	
		VN	TN	3.75	0.002139	± 2.5	PASS	
		VH	TN	4.23	0.002412	± 2.5	PASS	
Temperature								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
QPSK	LCH	VN	-30	0.55	0.000321	± 2.5	PASS	
		VN	-20	4.33	0.002530	± 2.5	PASS	
		VN	-10	2.02	0.001180	± 2.5	PASS	
		VN	0	1.88	0.001098	± 2.5	PASS	
		VN	10	1.6	0.000935	± 2.5	PASS	
		VN	20	0.79	0.000462	± 2.5	PASS	
		VN	30	1.3	0.000760	± 2.5	PASS	
		VN	40	3.08	0.001800	± 2.5	PASS	
		VN	50	-0.34	-0.000199	± 2.5	PASS	
	MCH	VN	-30	2.62	0.001512	± 2.5	PASS	
		VN	-20	3.98	0.002297	± 2.5	PASS	
		VN	-10	4.11	0.002372	± 2.5	PASS	
		VN	0	0.93	0.000537	± 2.5	PASS	
		VN	10	0.84	0.000485	± 2.5	PASS	
		VN	20	-0.44	-0.000254	± 2.5	PASS	
		VN	30	2.28	0.001316	± 2.5	PASS	
		VN	40	2.62	0.001512	± 2.5	PASS	
	HCH	VN	50	-0.11	-0.000063	± 2.5	PASS	
		VN	-30	-0.2	-0.000114	± 2.5	PASS	
		VN	-20	3.91	0.002230	± 2.5	PASS	
		VN	-10	-0.78	-0.000445	± 2.5	PASS	
		VN	0	2.48	0.001414	± 2.5	PASS	
		VN	10	3.32	0.001893	± 2.5	PASS	
		VN	20	3.11	0.001774	± 2.5	PASS	
		VN	30	-1.81	-0.001032	± 2.5	PASS	
	16QAM	LCH	VN	40	3.21	0.001831	± 2.5	PASS
			VN	50	0.31	0.000177	± 2.5	PASS
			VN	-30	3.65	0.002107	± 2.5	PASS
VN			-20	3.54	0.002043	± 2.5	PASS	
VN			-10	4.57	0.002638	± 2.5	PASS	
VN			0	-1.25	-0.000722	± 2.5	PASS	
VN			10	3.43	0.001980	± 2.5	PASS	
VN			20	-0.96	-0.000554	± 2.5	PASS	
VN			30	2.52	0.001455	± 2.5	PASS	
MCH		VN	40	2.05	0.001183	± 2.5	PASS	
		VN	50	0.31	0.000179	± 2.5	PASS	
		VN	-30	0.22	0.000125	± 2.5	PASS	
		VN	-20	-1.82	-0.001038	± 2.5	PASS	
		VN	-10	3.13	0.001785	± 2.5	PASS	

		VN	0	-0.55	-0.000314	± 2.5	PASS
		VN	10	3.51	0.002002	± 2.5	PASS
		VN	20	1.7	0.000969	± 2.5	PASS
		VN	30	4.44	0.002532	± 2.5	PASS
		VN	40	1.25	0.000713	± 2.5	PASS
		VN	50	1.59	0.000907	± 2.5	PASS
	HCH	VN	-30	2.56	0.001460	± 2.5	PASS
		VN	-20	-0.53	-0.000302	± 2.5	PASS
		VN	-10	4.94	0.002817	± 2.5	PASS
		VN	0	2.01	0.001146	± 2.5	PASS
		VN	10	4.45	0.002538	± 2.5	PASS
		VN	20	0	0.000000	± 2.5	PASS
		VN	30	-1.21	-0.000690	± 2.5	PASS
		VN	40	1.41	0.000804	± 2.5	PASS
		VN	50	-0.53	-0.000302	± 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	-1.51	-0.000882	± 2.5	PASS
		VN	TN	-1.03	-0.000601	± 2.5	PASS
		VH	TN	4.08	0.002382	± 2.5	PASS
	MCH	VL	TN	4.79	0.002765	± 2.5	PASS
		VN	TN	-1.23	-0.000710	± 2.5	PASS
		VH	TN	4.54	0.002620	± 2.5	PASS
	HCH	VL	TN	-0.94	-0.000536	± 2.5	PASS
		VN	TN	4.91	0.002802	± 2.5	PASS
		VH	TN	4.53	0.002585	± 2.5	PASS
16QAM	LCH	VL	TN	3.84	0.002242	± 2.5	PASS
		VN	TN	3.93	0.002295	± 2.5	PASS
		VH	TN	2.9	0.001693	± 2.5	PASS
	MCH	VL	TN	3.41	0.001968	± 2.5	PASS
		VN	TN	1.42	0.000820	± 2.5	PASS
		VH	TN	3.18	0.001835	± 2.5	PASS
	HCH	VL	TN	-1.54	-0.000879	± 2.5	PASS
		VN	TN	0.5	0.000285	± 2.5	PASS
		VH	TN	-0.47	-0.000268	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.02	-0.000596	± 2.5	PASS
		VN	-20	2.98	0.001740	± 2.5	PASS
		VN	-10	-1.47	-0.000858	± 2.5	PASS
		VN	0	-0.51	-0.000298	± 2.5	PASS
		VN	10	2.59	0.001512	± 2.5	PASS
		VN	20	1.37	0.000800	± 2.5	PASS
		VN	30	3.27	0.001909	± 2.5	PASS

		VN	40	3.45	0.002015	± 2.5	PASS
		VN	50	4.23	0.002470	± 2.5	PASS
	MCH	VN	-30	3.74	0.002159	± 2.5	PASS
		VN	-20	2.28	0.001316	± 2.5	PASS
		VN	-10	4.45	0.002569	± 2.5	PASS
		VN	0	4.76	0.002747	± 2.5	PASS
		VN	10	1.6	0.000924	± 2.5	PASS
		VN	20	3.53	0.002038	± 2.5	PASS
		VN	30	-0.73	-0.000421	± 2.5	PASS
		VN	40	-0.54	-0.000312	± 2.5	PASS
		VN	50	1.81	0.001045	± 2.5	PASS
		HCH	VN	-30	1.71	0.000976	± 2.5
	VN		-20	-0.49	-0.000257	± 2.5	PASS
	VN		-10	0.17	0.000089	± 2.5	PASS
	VN		0	2.3	0.001206	± 2.5	PASS
	VN		10	0.61	0.000320	± 2.5	PASS
	VN		20	1.29	0.000676	± 2.5	PASS
	VN		30	0.18	0.000094	± 2.5	PASS
	VN		40	4.75	0.002490	± 2.5	PASS
	16QAM	LCH	VN	-30	-0.93	-0.000537	± 2.5
VN			-20	-0.51	-0.000294	± 2.5	PASS
VN			-10	4.22	0.002436	± 2.5	PASS
VN			0	-0.18	-0.000104	± 2.5	PASS
VN			10	0.85	0.000491	± 2.5	PASS
VN			20	4.42	0.002551	± 2.5	PASS
VN			30	-0.09	-0.000052	± 2.5	PASS
VN			40	1.32	0.000762	± 2.5	PASS
MCH		VN	50	-0.71	-0.000410	± 2.5	PASS
		VN	-30	-1.84	-0.001050	± 2.5	PASS
		VN	-20	4.06	0.002317	± 2.5	PASS
		VN	-10	1.08	0.000616	± 2.5	PASS
		VN	0	-0.77	-0.000439	± 2.5	PASS
		VN	10	-1.26	-0.000719	± 2.5	PASS
		VN	20	4.8	0.002739	± 2.5	PASS
		VN	30	-1.67	-0.000953	± 2.5	PASS
HCH		VN	40	3.96	0.002260	± 2.5	PASS
		VN	50	1.91	0.001090	± 2.5	PASS
		VN	-30	2.54	0.001332	± 2.5	PASS
		VN	-20	1.24	0.000650	± 2.5	PASS
	VN	-10	-0.03	-0.000016	± 2.5	PASS	
	VN	0	-0.02	-0.000010	± 2.5	PASS	
	VN	10	2.35	0.001232	± 2.5	PASS	
	VN	20	0.16	0.000084	± 2.5	PASS	
VN	30	2.9	0.001520	± 2.5	PASS		
VN	40	0.8	0.000419	± 2.5	PASS		
VN	50	-0.13	-0.000068	± 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	3.85	0.002245	± 2.5	PASS
		VN	TN	1.46	0.000851	± 2.5	PASS
		VH	TN	-0.02	-0.000012	± 2.5	PASS
	MCH	VL	TN	-0.17	-0.000098	± 2.5	PASS
		VN	TN	1.04	0.000600	± 2.5	PASS
		VH	TN	-1.75	-0.001010	± 2.5	PASS
	HCH	VL	TN	3.44	0.001966	± 2.5	PASS
		VN	TN	4.22	0.002411	± 2.5	PASS
		VH	TN	-1.49	-0.000851	± 2.5	PASS
16QAM	LCH	VL	TN	0.95	0.000554	± 2.5	PASS
		VN	TN	0.79	0.000461	± 2.5	PASS
		VH	TN	0.95	0.000554	± 2.5	PASS
	MCH	VL	TN	0.74	0.000427	± 2.5	PASS
		VN	TN	2.56	0.001478	± 2.5	PASS
		VH	TN	1.35	0.000779	± 2.5	PASS
	HCH	VL	TN	-1.66	-0.000949	± 2.5	PASS
		VN	TN	-0.87	-0.000497	± 2.5	PASS
		VH	TN	1.2	0.000686	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.39	0.001977	± 2.5	PASS
		VN	-20	0.38	0.000222	± 2.5	PASS
		VN	-10	3.01	0.001755	± 2.5	PASS
		VN	0	2.3	0.001341	± 2.5	PASS
		VN	10	0.97	0.000566	± 2.5	PASS
		VN	20	-1.46	-0.000851	± 2.5	PASS
		VN	30	4.51	0.002630	± 2.5	PASS
		VN	40	3.16	0.001843	± 2.5	PASS
	MCH	VN	50	0.49	0.000286	± 2.5	PASS
		VN	-30	0.31	0.000179	± 2.5	PASS
		VN	-20	-1.87	-0.001079	± 2.5	PASS
		VN	-10	-1.88	-0.001085	± 2.5	PASS
		VN	0	2.7	0.001558	± 2.5	PASS
		VN	10	2.81	0.001622	± 2.5	PASS
		VN	20	2.75	0.001587	± 2.5	PASS
		VN	30	0.82	0.000473	± 2.5	PASS
	HCH	VN	40	0.08	0.000046	± 2.5	PASS
		VN	50	3.39	0.001957	± 2.5	PASS
		VN	-30	-1.81	-0.001034	± 2.5	PASS
		VN	-20	2.7	0.001543	± 2.5	PASS
		VN	-10	4.46	0.002549	± 2.5	PASS
		VN	0	1.01	0.000577	± 2.5	PASS



		VN	10	3.41	0.001949	± 2.5	PASS	
		VN	20	-1.66	-0.000949	± 2.5	PASS	
		VN	30	2.5	0.001429	± 2.5	PASS	
		VN	40	2.09	0.001194	± 2.5	PASS	
		VN	50	3.68	0.002103	± 2.5	PASS	
16QAM	LCH	VN	-30	0.52	0.000300	± 2.5	PASS	
		VN	-20	0.19	0.000110	± 2.5	PASS	
		VN	-10	4.37	0.002522	± 2.5	PASS	
		VN	0	4.15	0.002395	± 2.5	PASS	
		VN	10	0.14	0.000081	± 2.5	PASS	
		VN	20	3.64	0.002101	± 2.5	PASS	
		VN	30	3.7	0.002136	± 2.5	PASS	
		VN	40	2.6	0.001501	± 2.5	PASS	
		VN	50	1.19	0.000687	± 2.5	PASS	
		MCH	VN	-30	4.21	0.002406	± 2.5	PASS
	VN		-20	0.94	0.000537	± 2.5	PASS	
	VN		-10	-0.13	-0.000074	± 2.5	PASS	
	VN		0	4.27	0.002440	± 2.5	PASS	
	VN		10	-1.75	-0.001000	± 2.5	PASS	
	VN		20	0.18	0.000103	± 2.5	PASS	
	VN		30	2.96	0.001691	± 2.5	PASS	
	VN		40	4.58	0.002617	± 2.5	PASS	
	VN		50	1.51	0.000863	± 2.5	PASS	
	HCH		VN	-30	4.49	0.002566	± 2.5	PASS
		VN	-20	3.76	0.002149	± 2.5	PASS	
		VN	-10	-1.45	-0.000829	± 2.5	PASS	
		VN	0	4.33	0.002474	± 2.5	PASS	
		VN	10	-0.12	-0.000069	± 2.5	PASS	
		VN	20	3.66	0.002091	± 2.5	PASS	
		VN	30	-1.88	-0.001074	± 2.5	PASS	
		VN	40	3.31	0.001891	± 2.5	PASS	
			VN	50	0.82	0.000469	± 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	0.47	0.000274	± 2.5	PASS
		VN	TN	2.14	0.001246	± 2.5	PASS
		VH	TN	1.86	0.001083	± 2.5	PASS
	MCH	VL	TN	0.3	0.000173	± 2.5	PASS
		VN	TN	-1.84	-0.001062	± 2.5	PASS
		VH	TN	0.78	0.000450	± 2.5	PASS
	HCH	VL	TN	3.57	0.002043	± 2.5	PASS
		VN	TN	-0.26	-0.000149	± 2.5	PASS
		VH	TN	2.83	0.001619	± 2.5	PASS
16QAM	LCH	VL	TN	3.68	0.002143	± 2.5	PASS
		VN	TN	0.29	0.000169	± 2.5	PASS

		VH	TN	0.27	0.000157	± 2.5	PASS
	MCH	VL	TN	4.37	0.002522	± 2.5	PASS
		VN	TN	3.6	0.002078	± 2.5	PASS
		VH	TN	2.45	0.001414	± 2.5	PASS
	HCH	VL	TN	0.63	0.000361	± 2.5	PASS
		VN	TN	2.4	0.001373	± 2.5	PASS
		VH	TN	3.48	0.001991	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.24	0.002469	± 2.5	PASS
		VN	-20	3.32	0.001933	± 2.5	PASS
		VN	-10	1.62	0.000943	± 2.5	PASS
		VN	0	1.63	0.000949	± 2.5	PASS
		VN	10	4.75	0.002766	± 2.5	PASS
		VN	20	1.26	0.000734	± 2.5	PASS
		VN	30	3.65	0.002125	± 2.5	PASS
		VN	40	4.52	0.002632	± 2.5	PASS
		VN	50	3.77	0.002195	± 2.5	PASS
	MCH	VN	-30	-0.03	-0.000017	± 2.5	PASS
		VN	-20	0.33	0.000190	± 2.5	PASS
		VN	-10	3.17	0.001830	± 2.5	PASS
		VN	0	-1.82	-0.001051	± 2.5	PASS
		VN	10	1.81	0.001045	± 2.5	PASS
		VN	20	-0.88	-0.000508	± 2.5	PASS
		VN	30	0.99	0.000571	± 2.5	PASS
		VN	40	3.07	0.001772	± 2.5	PASS
	HCH	VN	50	-1.7	-0.000981	± 2.5	PASS
		VN	-30	1.22	0.000698	± 2.5	PASS
		VN	-20	1.14	0.000652	± 2.5	PASS
		VN	-10	0.72	0.000412	± 2.5	PASS
		VN	0	0.01	0.000006	± 2.5	PASS
		VN	10	4.93	0.002821	± 2.5	PASS
		VN	20	-0.27	-0.000155	± 2.5	PASS
VN		30	2.25	0.001288	± 2.5	PASS	
16QAM	LCH	VN	40	3.6	0.002060	± 2.5	PASS
		VN	50	-1.6	-0.000916	± 2.5	PASS
		VN	-30	1.5	0.000866	± 2.5	PASS
		VN	-20	1.8	0.001039	± 2.5	PASS
		VN	-10	-1.42	-0.000820	± 2.5	PASS
		VN	0	2.7	0.001558	± 2.5	PASS
		VN	10	-0.62	-0.000358	± 2.5	PASS
		VN	20	3.4	0.001962	± 2.5	PASS
		VN	30	0.74	0.000427	± 2.5	PASS
	MCH	VN	40	-0.42	-0.000242	± 2.5	PASS
		VN	50	1.88	0.001085	± 2.5	PASS
		VN	-30	2.79	0.001597	± 2.5	PASS
		VN	-20	2.57	0.001471	± 2.5	PASS
		VN	-10	-1.15	-0.000658	± 2.5	PASS

		VN	0	1.24	0.000710	± 2.5	PASS
		VN	10	-1.46	-0.000835	± 2.5	PASS
		VN	20	2.59	0.001482	± 2.5	PASS
		VN	30	0.65	0.000372	± 2.5	PASS
		VN	40	-0.59	-0.000338	± 2.5	PASS
		VN	50	-0.91	-0.000521	± 2.5	PASS
	HCH	VN	-30	-0.03	-0.000017	± 2.5	PASS
		VN	-20	-0.21	-0.000120	± 2.5	PASS
		VN	-10	4.42	0.002529	± 2.5	PASS
		VN	0	-0.47	-0.000269	± 2.5	PASS
		VN	10	0.3	0.000172	± 2.5	PASS
		VN	20	-0.99	-0.000567	± 2.5	PASS
		VN	30	4.79	0.002741	± 2.5	PASS
		VN	40	2.04	0.001167	± 2.5	PASS
		VN	50	0.24	0.000137	± 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	4.87	0.002831	± 2.5	PASS
		VN	TN	-1.94	-0.001128	± 2.5	PASS
		VH	TN	2.86	0.001663	± 2.5	PASS
	MCH	VL	TN	4.04	0.002332	± 2.5	PASS
		VN	TN	3.81	0.002199	± 2.5	PASS
		VH	TN	-0.82	-0.000473	± 2.5	PASS
	HCH	VL	TN	0.65	0.000372	± 2.5	PASS
		VN	TN	1.67	0.000957	± 2.5	PASS
		VH	TN	-0.6	-0.000344	± 2.5	PASS
16QAM	LCH	VL	TN	1.39	0.000808	± 2.5	PASS
		VN	TN	2.8	0.001628	± 2.5	PASS
		VH	TN	3.77	0.002192	± 2.5	PASS
	MCH	VL	TN	1.72	0.000993	± 2.5	PASS
		VN	TN	1.47	0.000848	± 2.5	PASS
		VH	TN	4.19	0.002418	± 2.5	PASS
	HCH	VL	TN	2.63	0.001507	± 2.5	PASS
		VN	TN	2.86	0.001639	± 2.5	PASS
		VH	TN	2.73	0.001564	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.49	0.001448	± 2.5	PASS
		VN	-20	1.86	0.001081	± 2.5	PASS
		VN	-10	4.01	0.002331	± 2.5	PASS
		VN	0	1.92	0.001116	± 2.5	PASS
		VN	10	2.08	0.001209	± 2.5	PASS
		VN	20	4.94	0.002872	± 2.5	PASS
		VN	30	1.13	0.000657	± 2.5	PASS

		VN	40	3.48	0.002023	± 2.5	PASS
		VN	50	4.82	0.002802	± 2.5	PASS
	MCH	VN	-30	0.41	0.000237	± 2.5	PASS
		VN	-20	1.11	0.000641	± 2.5	PASS
		VN	-10	2.44	0.001408	± 2.5	PASS
		VN	0	1.27	0.000733	± 2.5	PASS
		VN	10	-0.27	-0.000156	± 2.5	PASS
		VN	20	-0.45	-0.000260	± 2.5	PASS
		VN	30	4.42	0.002551	± 2.5	PASS
		VN	40	-0.73	-0.000421	± 2.5	PASS
		VN	50	3.16	0.001824	± 2.5	PASS
		HCH	VN	-30	1.68	0.000963	± 2.5
	VN		-20	-0.66	-0.000378	± 2.5	PASS
	VN		-10	4.7	0.002693	± 2.5	PASS
	VN		0	1.98	0.001135	± 2.5	PASS
	VN		10	0.3	0.000172	± 2.5	PASS
	VN		20	-1.61	-0.000923	± 2.5	PASS
	VN		30	2.94	0.001685	± 2.5	PASS
	VN		40	-1.9	-0.001089	± 2.5	PASS
	16QAM	LCH	VN	-30	2.28	0.001316	± 2.5
VN			-20	0.08	0.000046	± 2.5	PASS
VN			-10	5	0.002886	± 2.5	PASS
VN			0	1.77	0.001022	± 2.5	PASS
VN			10	0.59	0.000341	± 2.5	PASS
VN			20	-1.61	-0.000929	± 2.5	PASS
VN			30	4.61	0.002661	± 2.5	PASS
VN			40	4.8	0.002771	± 2.5	PASS
MCH		VN	50	1.85	0.001068	± 2.5	PASS
		VN	-30	-0.17	-0.000097	± 2.5	PASS
		VN	-20	1.7	0.000974	± 2.5	PASS
		VN	-10	0.42	0.000241	± 2.5	PASS
		VN	0	1.8	0.001032	± 2.5	PASS
		VN	10	-0.81	-0.000464	± 2.5	PASS
		VN	20	-0.38	-0.000218	± 2.5	PASS
		VN	30	2.96	0.001696	± 2.5	PASS
		VN	40	3.14	0.001799	± 2.5	PASS
HCH		VN	50	4.07	0.002332	± 2.5	PASS
		VN	-30	-0.88	-0.000504	± 2.5	PASS
		VN	-20	-0.09	-0.000052	± 2.5	PASS
	VN	-10	0.59	0.000338	± 2.5	PASS	
	VN	0	0.16	0.000092	± 2.5	PASS	
	VN	10	-0.02	-0.000011	± 2.5	PASS	
	VN	20	0.54	0.000309	± 2.5	PASS	
	VN	30	0.94	0.000539	± 2.5	PASS	
VN	40	1.53	0.000877	± 2.5	PASS		
VN	50	0.38	0.000218	± 2.5	PASS		

**Band 5**

**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	3.32	0.004026	± 2.5	PASS
		VN	TN	-0.91	-0.001103	± 2.5	PASS
		VH	TN	-1.36	-0.001649	± 2.5	PASS
	MCH	VL	TN	-0.64	-0.000765	± 2.5	PASS
		VN	TN	0.72	0.000861	± 2.5	PASS
		VH	TN	0.38	0.000454	± 2.5	PASS
	HCH	VL	TN	3.73	0.004397	± 2.5	PASS
		VN	TN	-1.8	-0.002122	± 2.5	PASS
		VH	TN	1.83	0.002157	± 2.5	PASS
16QAM	LCH	VL	TN	3.54	0.004292	± 2.5	PASS
		VN	TN	3.58	0.004341	± 2.5	PASS
		VH	TN	2.48	0.003007	± 2.5	PASS
	MCH	VL	TN	-0.43	-0.000514	± 2.5	PASS
		VN	TN	-1.25	-0.001494	± 2.5	PASS
		VH	TN	3.17	0.003790	± 2.5	PASS
	HCH	VL	TN	1.86	0.002193	± 2.5	PASS
		VN	TN	0.85	0.001002	± 2.5	PASS
		VH	TN	0.54	0.000637	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.03	-0.000036	± 2.5	PASS
		VN	-20	2.99	0.003626	± 2.5	PASS
		VN	-10	-0.31	-0.000376	± 2.5	PASS
		VN	0	4.08	0.004947	± 2.5	PASS
		VN	10	3.51	0.004256	± 2.5	PASS
		VN	20	3.69	0.004474	± 2.5	PASS
		VN	30	2.93	0.003553	± 2.5	PASS
		VN	40	2.46	0.002983	± 2.5	PASS
	MCH	VN	50	1.65	0.002001	± 2.5	PASS
		VN	-30	4.25	0.005081	± 2.5	PASS
		VN	-20	2.39	0.002857	± 2.5	PASS
		VN	-10	-0.67	-0.000801	± 2.5	PASS
		VN	0	1.65	0.001973	± 2.5	PASS
		VN	10	-0.95	-0.001136	± 2.5	PASS
		VN	20	3.12	0.003730	± 2.5	PASS
		VN	30	0.33	0.000395	± 2.5	PASS
	HCH	VN	40	0.6	0.000717	± 2.5	PASS
		VN	50	3.38	0.004041	± 2.5	PASS
		VN	-30	4.14	0.004880	± 2.5	PASS
		VN	-20	2.58	0.003041	± 2.5	PASS
		VN	-10	-1.99	-0.002346	± 2.5	PASS
		VN	0	-0.59	-0.000696	± 2.5	PASS

		VN	10	2.39	0.002817	± 2.5	PASS
		VN	20	4.04	0.004762	± 2.5	PASS
		VN	30	-0.35	-0.000413	± 2.5	PASS
		VN	40	2.13	0.002511	± 2.5	PASS
		VN	50	0.92	0.001085	± 2.5	PASS
16QAM	LCH	VN	-30	-1.69	-0.002049	± 2.5	PASS
		VN	-20	4.68	0.005675	± 2.5	PASS
		VN	-10	2.96	0.003589	± 2.5	PASS
		VN	0	4.04	0.004899	± 2.5	PASS
		VN	10	0.65	0.000788	± 2.5	PASS
		VN	20	3.2	0.003880	± 2.5	PASS
		VN	30	-1.58	-0.001916	± 2.5	PASS
		VN	40	-1.61	-0.001952	± 2.5	PASS
		VN	50	0.8	0.000970	± 2.5	PASS
		MCH	VN	-30	2.33	0.002747	± 2.5
	VN		-20	-1.31	-0.001544	± 2.5	PASS
	VN		-10	4.43	0.005222	± 2.5	PASS
	VN		0	-1.49	-0.001756	± 2.5	PASS
	VN		10	2.45	0.002888	± 2.5	PASS
	VN		20	2.37	0.002794	± 2.5	PASS
	VN		30	-0.17	-0.000200	± 2.5	PASS
	VN		40	2.27	0.002676	± 2.5	PASS
	VN		50	-0.63	-0.000743	± 2.5	PASS
	HCH		VN	-30	4.85	0.005717	± 2.5
		VN	-20	3.99	0.004704	± 2.5	PASS
		VN	-10	3.26	0.003843	± 2.5	PASS
		VN	0	2.08	0.002452	± 2.5	PASS
		VN	10	0.97	0.001143	± 2.5	PASS
		VN	20	1.66	0.001957	± 2.5	PASS
		VN	30	-0.84	-0.000990	± 2.5	PASS
		VN	40	-1.73	-0.002039	± 2.5	PASS
		VN	50	4.2	0.004951	± 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	4.32	0.005233	± 2.5	PASS
		VN	TN	-0.69	-0.000836	± 2.5	PASS
		VH	TN	4.28	0.005185	± 2.5	PASS
	MCH	VL	TN	-1.04	-0.001243	± 2.5	PASS
		VN	TN	2.46	0.002941	± 2.5	PASS
		VH	TN	4.76	0.005690	± 2.5	PASS
	HCH	VL	TN	2.22	0.002619	± 2.5	PASS
		VN	TN	1.82	0.002147	± 2.5	PASS
		VH	TN	1.34	0.001581	± 2.5	PASS
16QAM	LCH	VL	TN	0.21	0.000254	± 2.5	PASS
		VN	TN	0.9	0.001090	± 2.5	PASS

		VH	TN	3.25	0.003937	± 2.5	PASS
	MCH	VL	TN	3.92	0.004686	± 2.5	PASS
		VN	TN	1.53	0.001829	± 2.5	PASS
		VH	TN	1.68	0.002008	± 2.5	PASS
	HCH	VL	TN	0.19	0.000224	± 2.5	PASS
		VN	TN	3.11	0.003670	± 2.5	PASS
		VH	TN	1.82	0.002147	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.43	-0.000521	± 2.5	PASS
		VN	-20	-0.34	-0.000412	± 2.5	PASS
		VN	-10	4.44	0.005379	± 2.5	PASS
		VN	0	0.22	0.000267	± 2.5	PASS
		VN	10	1.8	0.002180	± 2.5	PASS
		VN	20	3.98	0.004821	± 2.5	PASS
		VN	30	1.81	0.002193	± 2.5	PASS
		VN	40	1.16	0.001405	± 2.5	PASS
		VN	50	3.02	0.003658	± 2.5	PASS
	MCH	VN	-30	1.79	0.002140	± 2.5	PASS
		VN	-20	-1.05	-0.001255	± 2.5	PASS
		VN	-10	0.86	0.001028	± 2.5	PASS
		VN	0	4.36	0.005212	± 2.5	PASS
		VN	10	0.64	0.000765	± 2.5	PASS
		VN	20	-1.07	-0.001279	± 2.5	PASS
		VN	30	-1.25	-0.001494	± 2.5	PASS
		VN	40	-1.5	-0.001793	± 2.5	PASS
	HCH	VN	50	4.06	0.004854	± 2.5	PASS
		VN	-30	3.62	0.004271	± 2.5	PASS
		VN	-20	2.95	0.003481	± 2.5	PASS
		VN	-10	1.92	0.002265	± 2.5	PASS
		VN	0	1.73	0.002041	± 2.5	PASS
		VN	10	-1.08	-0.001274	± 2.5	PASS
		VN	20	-1.37	-0.001617	± 2.5	PASS
VN		30	1.96	0.002313	± 2.5	PASS	
16QAM	LCH	VN	40	4.05	0.004779	± 2.5	PASS
		VN	50	2.28	0.002690	± 2.5	PASS
		VN	-30	-0.21	-0.000251	± 2.5	PASS
		VN	-20	-1.49	-0.001781	± 2.5	PASS
		VN	-10	-0.26	-0.000311	± 2.5	PASS
		VN	0	4.04	0.004830	± 2.5	PASS
		VN	10	0.47	0.000562	± 2.5	PASS
		VN	20	3.13	0.003742	± 2.5	PASS
		VN	30	4.18	0.004997	± 2.5	PASS
	MCH	VN	40	3.93	0.004698	± 2.5	PASS
		VN	50	1.83	0.002188	± 2.5	PASS
		VN	-30	0.07	0.000083	± 2.5	PASS
		VN	-20	-0.79	-0.000932	± 2.5	PASS
		VN	-10	1.02	0.001204	± 2.5	PASS

		VN	0	4.95	0.005841	± 2.5	PASS
		VN	10	1.97	0.002324	± 2.5	PASS
		VN	20	-1.54	-0.001817	± 2.5	PASS
		VN	30	-0.97	-0.001145	± 2.5	PASS
		VN	40	-1.73	-0.002041	± 2.5	PASS
		VN	50	4.26	0.005027	± 2.5	PASS
	HCH	VN	-30	2.69	0.003174	± 2.5	PASS
		VN	-20	-0.29	-0.000342	± 2.5	PASS
		VN	-10	2.44	0.002879	± 2.5	PASS
		VN	0	2.73	0.003221	± 2.5	PASS
		VN	10	4.4	0.005192	± 2.5	PASS
		VN	20	3.86	0.004555	± 2.5	PASS
		VN	30	3.07	0.003622	± 2.5	PASS
		VN	40	-0.41	-0.000484	± 2.5	PASS
		VN	50	-1.28	-0.001510	± 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	1.7	0.002057	± 2.5	PASS
		VN	TN	4.43	0.005360	± 2.5	PASS
		VH	TN	4.01	0.004852	± 2.5	PASS
	MCH	VL	TN	4	0.004782	± 2.5	PASS
		VN	TN	2.19	0.002618	± 2.5	PASS
		VH	TN	-0.34	-0.000406	± 2.5	PASS
	HCH	VL	TN	3.75	0.004430	± 2.5	PASS
		VN	TN	-0.89	-0.001051	± 2.5	PASS
		VH	TN	2.95	0.003485	± 2.5	PASS
16QAM	LCH	VL	TN	0	0.000000	± 2.5	PASS
		VN	TN	1.41	0.001706	± 2.5	PASS
		VH	TN	2.81	0.003400	± 2.5	PASS
	MCH	VL	TN	4.59	0.005487	± 2.5	PASS
		VN	TN	2.35	0.002809	± 2.5	PASS
		VH	TN	0.36	0.000430	± 2.5	PASS
	HCH	VL	TN	-1.61	-0.001902	± 2.5	PASS
		VN	TN	1.86	0.002197	± 2.5	PASS
		VH	TN	-0.36	-0.000425	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.01	-0.000012	± 2.5	PASS
		VN	-20	-1.94	-0.002347	± 2.5	PASS
		VN	-10	3.97	0.004803	± 2.5	PASS
		VN	0	3.66	0.004428	± 2.5	PASS
		VN	10	2.81	0.003400	± 2.5	PASS
		VN	20	-1.38	-0.001670	± 2.5	PASS
		VN	30	2.2	0.002662	± 2.5	PASS



		VN	40	0.93	0.001125	± 2.5	PASS
		VN	50	3.85	0.004658	± 2.5	PASS
	MCH	VN	-30	3.58	0.004280	± 2.5	PASS
		VN	-20	-0.47	-0.000562	± 2.5	PASS
		VN	-10	2.27	0.002714	± 2.5	PASS
		VN	0	4.23	0.005057	± 2.5	PASS
		VN	10	1.02	0.001219	± 2.5	PASS
		VN	20	3.43	0.004100	± 2.5	PASS
		VN	30	-1.11	-0.001327	± 2.5	PASS
		VN	40	1.99	0.002379	± 2.5	PASS
		VN	50	-1.68	-0.002008	± 2.5	PASS
		HCH	VN	-30	-0.41	-0.000484	± 2.5
	VN		-20	0.44	0.000520	± 2.5	PASS
	VN		-10	0.81	0.000957	± 2.5	PASS
	VN		0	-0.39	-0.000461	± 2.5	PASS
	VN		10	0.53	0.000626	± 2.5	PASS
	VN		20	-0.09	-0.000106	± 2.5	PASS
	VN		30	3.01	0.003556	± 2.5	PASS
	VN		40	2.05	0.002422	± 2.5	PASS
	16QAM	LCH	VN	-30	-1.97	-0.002355	± 2.5
VN			-20	3.87	0.004626	± 2.5	PASS
VN			-10	2.06	0.002463	± 2.5	PASS
VN			0	-1.97	-0.002355	± 2.5	PASS
VN			10	-0.98	-0.001172	± 2.5	PASS
VN			20	-0.94	-0.001124	± 2.5	PASS
VN			30	-0.21	-0.000251	± 2.5	PASS
VN			40	0.31	0.000371	± 2.5	PASS
MCH		VN	50	-1.78	-0.002128	± 2.5	PASS
		VN	-30	0.27	0.000319	± 2.5	PASS
		VN	-20	3.32	0.003922	± 2.5	PASS
		VN	-10	-1.87	-0.002209	± 2.5	PASS
		VN	0	-1.02	-0.001205	± 2.5	PASS
		VN	10	2.26	0.002670	± 2.5	PASS
		VN	20	-0.04	-0.000047	± 2.5	PASS
		VN	30	4.42	0.005222	± 2.5	PASS
		VN	40	3.17	0.003745	± 2.5	PASS
HCH		VN	50	-0.87	-0.001028	± 2.5	PASS
		VN	-30	2.77	0.003272	± 2.5	PASS
		VN	-20	1.17	0.001382	± 2.5	PASS
	VN	-10	4.95	0.005848	± 2.5	PASS	
	VN	0	4.35	0.005139	± 2.5	PASS	
	VN	10	-0.99	-0.001170	± 2.5	PASS	
	VN	20	3.86	0.004560	± 2.5	PASS	
	VN	30	2.59	0.003060	± 2.5	PASS	
	VN	40	-0.4	-0.000473	± 2.5	PASS	
VN	50	0.14	0.000165	± 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	1.85	0.002232	± 2.5	PASS
		VN	TN	1.27	0.001532	± 2.5	PASS
		VH	TN	1.23	0.001484	± 2.5	PASS
	MCH	VL	TN	2.84	0.003395	± 2.5	PASS
		VN	TN	3.92	0.004686	± 2.5	PASS
		VH	TN	2.92	0.003491	± 2.5	PASS
	HCH	VL	TN	3.46	0.004100	± 2.5	PASS
		VN	TN	1.03	0.001220	± 2.5	PASS
		VH	TN	3.73	0.004419	± 2.5	PASS
16QAM	LCH	VL	TN	-1.3	-0.001568	± 2.5	PASS
		VN	TN	2.04	0.002461	± 2.5	PASS
		VH	TN	3.87	0.004668	± 2.5	PASS
	MCH	VL	TN	3.56	0.004256	± 2.5	PASS
		VN	TN	0.6	0.000717	± 2.5	PASS
		VH	TN	0.27	0.000323	± 2.5	PASS
	HCH	VL	TN	3.39	0.004017	± 2.5	PASS
		VN	TN	3.44	0.004076	± 2.5	PASS
		VH	TN	-0.89	-0.001055	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.07	0.004910	± 2.5	PASS
		VN	-20	1.35	0.001628	± 2.5	PASS
		VN	-10	0.4	0.000483	± 2.5	PASS
		VN	0	3.22	0.003884	± 2.5	PASS
		VN	10	0.37	0.000446	± 2.5	PASS
		VN	20	2.03	0.002449	± 2.5	PASS
		VN	30	-0.98	-0.001182	± 2.5	PASS
		VN	40	1.36	0.001641	± 2.5	PASS
	MCH	VN	50	1.11	0.001339	± 2.5	PASS
		VN	-30	0.76	0.000909	± 2.5	PASS
		VN	-20	0.58	0.000693	± 2.5	PASS
		VN	-10	3.54	0.004232	± 2.5	PASS
		VN	0	-0.63	-0.000753	± 2.5	PASS
		VN	10	4.39	0.005248	± 2.5	PASS
		VN	20	1.1	0.001315	± 2.5	PASS
		VN	30	0.05	0.000060	± 2.5	PASS
	HCH	VN	40	-0.64	-0.000765	± 2.5	PASS
		VN	50	3.19	0.003814	± 2.5	PASS
		VN	-30	3.15	0.003732	± 2.5	PASS
		VN	-20	0.77	0.000912	± 2.5	PASS
		VN	-10	-0.64	-0.000758	± 2.5	PASS
		VN	0	1.88	0.002227	± 2.5	PASS

		VN	10	1.78	0.002109	± 2.5	PASS
		VN	20	4.27	0.005059	± 2.5	PASS
		VN	30	4.13	0.004893	± 2.5	PASS
		VN	40	2.36	0.002796	± 2.5	PASS
		VN	50	4.89	0.005794	± 2.5	PASS
16QAM	LCH	VN	-30	4.29	0.005129	± 2.5	PASS
		VN	-20	4.03	0.004818	± 2.5	PASS
		VN	-10	-0.82	-0.000980	± 2.5	PASS
		VN	0	3.78	0.004519	± 2.5	PASS
		VN	10	-0.68	-0.000813	± 2.5	PASS
		VN	20	-1.17	-0.001399	± 2.5	PASS
		VN	30	3.02	0.003610	± 2.5	PASS
		VN	40	0.83	0.000992	± 2.5	PASS
		VN	50	2.8	0.003347	± 2.5	PASS
		MCH	VN	-30	0.24	0.000284	± 2.5
	VN		-20	4.17	0.004941	± 2.5	PASS
	VN		-10	4.75	0.005628	± 2.5	PASS
	VN		0	4.9	0.005806	± 2.5	PASS
	VN		10	3.47	0.004111	± 2.5	PASS
	VN		20	4.49	0.005320	± 2.5	PASS
	VN		30	-0.51	-0.000604	± 2.5	PASS
	VN		40	4.62	0.005474	± 2.5	PASS
	VN		50	1.49	0.001765	± 2.5	PASS
	HCH		VN	-30	0.26	0.000308	± 2.5
		VN	-20	-0.65	-0.000770	± 2.5	PASS
		VN	-10	4.38	0.005190	± 2.5	PASS
		VN	0	3.2	0.003791	± 2.5	PASS
		VN	10	0.85	0.001007	± 2.5	PASS
		VN	20	3.43	0.004064	± 2.5	PASS
		VN	30	3.24	0.003839	± 2.5	PASS
		VN	40	3.67	0.004348	± 2.5	PASS
		VN	50	1.65	0.001955	± 2.5	PASS

**Band 12**

**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	-0.62	-0.000886	± 2.5	PASS
		VN	TN	1.09	0.001558	± 2.5	PASS
		VH	TN	3.29	0.004702	± 2.5	PASS
	MCH	VL	TN	0.01	0.000014	± 2.5	PASS
		VN	TN	1.46	0.002064	± 2.5	PASS
		VH	TN	0.67	0.000947	± 2.5	PASS
	HCH	VL	TN	3.16	0.004418	± 2.5	PASS
		VN	TN	4.6	0.006431	± 2.5	PASS
		VH	TN	1.8	0.002516	± 2.5	PASS
16QAM	LCH	VL	TN	4.1	0.005860	± 2.5	PASS
		VN	TN	-0.3	-0.000429	± 2.5	PASS
		VH	TN	-0.47	-0.000672	± 2.5	PASS
	MCH	VL	TN	2.16	0.003053	± 2.5	PASS
		VN	TN	3.31	0.004678	± 2.5	PASS
		VH	TN	2.75	0.003887	± 2.5	PASS
	HCH	VL	TN	0.88	0.001230	± 2.5	PASS
		VN	TN	2.66	0.003719	± 2.5	PASS
		VH	TN	-0.51	-0.000713	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.82	0.002601	± 2.5	PASS
		VN	-20	-1.77	-0.002530	± 2.5	PASS
		VN	-10	-1.13	-0.001615	± 2.5	PASS
		VN	0	0.17	0.000243	± 2.5	PASS
		VN	10	2.74	0.003916	± 2.5	PASS
		VN	20	-1.9	-0.002715	± 2.5	PASS
		VN	30	-1.93	-0.002758	± 2.5	PASS
		VN	40	3.12	0.004459	± 2.5	PASS
	MCH	VN	50	-1.87	-0.002673	± 2.5	PASS
		VN	-30	3.2	0.004523	± 2.5	PASS
		VN	-20	3.99	0.005640	± 2.5	PASS
		VN	-10	4.43	0.006261	± 2.5	PASS
		VN	0	-0.81	-0.001145	± 2.5	PASS
		VN	10	3.95	0.005583	± 2.5	PASS
		VN	20	4.75	0.006714	± 2.5	PASS
		VN	30	1.02	0.001442	± 2.5	PASS
	HCH	VN	40	1.97	0.002784	± 2.5	PASS
		VN	50	-0.28	-0.000396	± 2.5	PASS
		VN	-30	4.54	0.006347	± 2.5	PASS
		VN	-20	4.04	0.005648	± 2.5	PASS
		VN	-10	4.37	0.006109	± 2.5	PASS
		VN	0	1.6	0.002237	± 2.5	PASS

		VN	10	3.91	0.005466	± 2.5	PASS
		VN	20	1.35	0.001887	± 2.5	PASS
		VN	30	3.62	0.005061	± 2.5	PASS
		VN	40	2.42	0.003383	± 2.5	PASS
		VN	50	3.24	0.004530	± 2.5	PASS
16QAM	LCH	VN	-30	-1.9	-0.002715	± 2.5	PASS
		VN	-20	4.21	0.006017	± 2.5	PASS
		VN	-10	3.22	0.004602	± 2.5	PASS
		VN	0	3.1	0.004430	± 2.5	PASS
		VN	10	-0.03	-0.000043	± 2.5	PASS
		VN	20	0.32	0.000457	± 2.5	PASS
		VN	30	4.2	0.006003	± 2.5	PASS
		VN	40	3.47	0.004959	± 2.5	PASS
		VN	50	3.61	0.005159	± 2.5	PASS
	MCH	VN	-30	4.01	0.005668	± 2.5	PASS
		VN	-20	3.03	0.004283	± 2.5	PASS
		VN	-10	1.73	0.002445	± 2.5	PASS
		VN	0	2.04	0.002883	± 2.5	PASS
		VN	10	-0.56	-0.000792	± 2.5	PASS
		VN	20	3.18	0.004495	± 2.5	PASS
		VN	30	4.9	0.006926	± 2.5	PASS
		VN	40	1.83	0.002587	± 2.5	PASS
		VN	50	1.34	0.001894	± 2.5	PASS
	HCH	VN	-30	0.77	0.001076	± 2.5	PASS
		VN	-20	4.77	0.006669	± 2.5	PASS
		VN	-10	-1.55	-0.002167	± 2.5	PASS
		VN	0	4.6	0.006431	± 2.5	PASS
		VN	10	-0.83	-0.001160	± 2.5	PASS
		VN	20	4.9	0.006850	± 2.5	PASS
		VN	30	4.45	0.006221	± 2.5	PASS
		VN	40	-0.68	-0.000951	± 2.5	PASS
		VN	50	0.19	0.000266	± 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	-0.44	-0.000628	± 2.5	PASS
		VN	TN	0.14	0.000200	± 2.5	PASS
		VH	TN	-0.28	-0.000400	± 2.5	PASS
	MCH	VL	TN	2.93	0.004141	± 2.5	PASS
		VN	TN	3.13	0.004424	± 2.5	PASS
		VH	TN	-1	-0.001413	± 2.5	PASS
	HCH	VL	TN	3.81	0.005332	± 2.5	PASS
		VN	TN	4.04	0.005654	± 2.5	PASS
		VH	TN	3.91	0.005472	± 2.5	PASS
16QAM	LCH	VL	TN	-1.19	-0.001699	± 2.5	PASS
		VN	TN	-1.06	-0.001513	± 2.5	PASS

	MCH	VH	TN	1.12	0.001599	± 2.5	PASS	
		VL	TN	1.44	0.002035	± 2.5	PASS	
		VN	TN	-1.08	-0.001527	± 2.5	PASS	
	HCH	VH	TN	4.11	0.005809	± 2.5	PASS	
		VL	TN	-1.05	-0.001470	± 2.5	PASS	
		VN	TN	2.48	0.003471	± 2.5	PASS	
	VH	TN	4.54	0.006354	± 2.5	PASS		
Temperature								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
QPSK	LCH	VN	-30	-0.63	-0.000899	± 2.5	PASS	
		VN	-20	3.73	0.005325	± 2.5	PASS	
		VN	-10	4.04	0.005767	± 2.5	PASS	
		VN	0	1.5	0.002141	± 2.5	PASS	
		VN	10	4.46	0.006367	± 2.5	PASS	
		VN	20	4.33	0.006181	± 2.5	PASS	
		VN	30	5	0.007138	± 2.5	PASS	
		VN	40	4.41	0.006296	± 2.5	PASS	
		VN	50	3.91	0.005582	± 2.5	PASS	
	MCH	VN	-30	2.32	0.003279	± 2.5	PASS	
		VN	-20	3.24	0.004580	± 2.5	PASS	
		VN	-10	4.65	0.006572	± 2.5	PASS	
		VN	0	4.43	0.006261	± 2.5	PASS	
		VN	10	-0.69	-0.000975	± 2.5	PASS	
		VN	20	4.71	0.006657	± 2.5	PASS	
		VN	30	1.16	0.001640	± 2.5	PASS	
		VN	40	0.59	0.000834	± 2.5	PASS	
	HCH	VN	50	-0.76	-0.001074	± 2.5	PASS	
		VN	-30	4.13	0.005780	± 2.5	PASS	
		VN	-20	3.65	0.005108	± 2.5	PASS	
		VN	-10	0.61	0.000854	± 2.5	PASS	
		VN	0	1.86	0.002603	± 2.5	PASS	
		VN	10	4.42	0.006186	± 2.5	PASS	
		VN	20	-1.47	-0.002057	± 2.5	PASS	
		VN	30	3.2	0.004479	± 2.5	PASS	
		VN	40	3.97	0.005556	± 2.5	PASS	
	16QAM	LCH	VN	50	0.61	0.000854	± 2.5	PASS
			VN	-30	3.52	0.005025	± 2.5	PASS
VN			-20	-0.19	-0.000271	± 2.5	PASS	
VN			-10	0.73	0.001042	± 2.5	PASS	
VN			0	3.86	0.005510	± 2.5	PASS	
VN			10	2.58	0.003683	± 2.5	PASS	
VN			20	3.85	0.005496	± 2.5	PASS	
VN			30	2.74	0.003911	± 2.5	PASS	
VN			40	-1.23	-0.001756	± 2.5	PASS	
MCH		VN	50	1.63	0.002327	± 2.5	PASS	
		VN	-30	2.34	0.003307	± 2.5	PASS	
		VN	-20	0.44	0.000622	± 2.5	PASS	
		VN	-10	1.33	0.001880	± 2.5	PASS	

		VN	0	3.42	0.004834	± 2.5	PASS
		VN	10	4.47	0.006318	± 2.5	PASS
		VN	20	1.11	0.001569	± 2.5	PASS
		VN	30	-1.15	-0.001625	± 2.5	PASS
		VN	40	3.32	0.004693	± 2.5	PASS
		VN	50	-1.35	-0.001908	± 2.5	PASS
	HCH	VN	-30	1.39	0.001945	± 2.5	PASS
		VN	-20	1.33	0.001861	± 2.5	PASS
		VN	-10	3.75	0.005248	± 2.5	PASS
		VN	0	1.02	0.001428	± 2.5	PASS
		VN	10	-1.27	-0.001777	± 2.5	PASS
		VN	20	4.58	0.006410	± 2.5	PASS
		VN	30	2.56	0.003583	± 2.5	PASS
		VN	40	0.33	0.000462	± 2.5	PASS
		VN	50	0.7	0.000980	± 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	0.84	0.001197	± 2.5	PASS
		VN	TN	1.69	0.002409	± 2.5	PASS
		VH	TN	2.84	0.004048	± 2.5	PASS
	MCH	VL	TN	4.42	0.006247	± 2.5	PASS
		VN	TN	1.95	0.002756	± 2.5	PASS
		VH	TN	3.74	0.005286	± 2.5	PASS
	HCH	VL	TN	0.49	0.000687	± 2.5	PASS
		VN	TN	4.63	0.006489	± 2.5	PASS
		VH	TN	-0.1	-0.000140	± 2.5	PASS
16QAM	LCH	VL	TN	4.11	0.005859	± 2.5	PASS
		VN	TN	4.59	0.006543	± 2.5	PASS
		VH	TN	4.92	0.007014	± 2.5	PASS
	MCH	VL	TN	2.56	0.003618	± 2.5	PASS
		VN	TN	1.87	0.002643	± 2.5	PASS
		VH	TN	-0.87	-0.001230	± 2.5	PASS
	HCH	VL	TN	1.67	0.002341	± 2.5	PASS
		VN	TN	3.12	0.004373	± 2.5	PASS
		VH	TN	4.86	0.006811	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.96	0.005645	± 2.5	PASS
		VN	-20	-0.05	-0.000071	± 2.5	PASS
		VN	-10	4.85	0.006914	± 2.5	PASS
		VN	0	1.78	0.002537	± 2.5	PASS
		VN	10	1.19	0.001696	± 2.5	PASS
		VN	20	4.79	0.006828	± 2.5	PASS
		VN	30	0.06	0.000086	± 2.5	PASS

		VN	40	-1.41	-0.002010	± 2.5	PASS
		VN	50	-1.59	-0.002267	± 2.5	PASS
	MCH	VN	-30	0.25	0.000353	± 2.5	PASS
		VN	-20	0.01	0.000014	± 2.5	PASS
		VN	-10	3.62	0.005117	± 2.5	PASS
		VN	0	1.02	0.001442	± 2.5	PASS
		VN	10	-1.14	-0.001611	± 2.5	PASS
		VN	20	3.87	0.005470	± 2.5	PASS
		VN	30	0.66	0.000933	± 2.5	PASS
		VN	40	-1.21	-0.001710	± 2.5	PASS
		VN	50	4.63	0.006544	± 2.5	PASS
		HCH	VN	-30	2.99	0.004191	± 2.5
	VN		-20	3.9	0.005466	± 2.5	PASS
	VN		-10	-0.24	-0.000336	± 2.5	PASS
	VN		0	2.73	0.003826	± 2.5	PASS
	VN		10	0.09	0.000126	± 2.5	PASS
	VN		20	3.82	0.005354	± 2.5	PASS
	VN		30	3.07	0.004303	± 2.5	PASS
	VN		40	2.58	0.003616	± 2.5	PASS
	16QAM	LCH	VN	-30	4.39	0.006258	± 2.5
VN			-20	1.48	0.002110	± 2.5	PASS
VN			-10	-0.66	-0.000941	± 2.5	PASS
VN			0	0.63	0.000898	± 2.5	PASS
VN			10	0.63	0.000898	± 2.5	PASS
VN			20	2.18	0.003108	± 2.5	PASS
VN			30	3.33	0.004747	± 2.5	PASS
VN			40	4.96	0.007071	± 2.5	PASS
MCH		VN	50	4.7	0.006700	± 2.5	PASS
		VN	-30	0.76	0.001074	± 2.5	PASS
		VN	-20	-1.78	-0.002516	± 2.5	PASS
		VN	-10	1.5	0.002120	± 2.5	PASS
		VN	0	3.39	0.004792	± 2.5	PASS
		VN	10	1.25	0.001767	± 2.5	PASS
		VN	20	1.06	0.001498	± 2.5	PASS
		VN	30	-0.89	-0.001258	± 2.5	PASS
HCH		VN	40	2.96	0.004184	± 2.5	PASS
		VN	50	-1.73	-0.002445	± 2.5	PASS
		VN	-30	1.06	0.001486	± 2.5	PASS
		VN	-20	0.11	0.000154	± 2.5	PASS
	VN	-10	0.57	0.000799	± 2.5	PASS	
	VN	0	4.05	0.005676	± 2.5	PASS	
	VN	10	0.42	0.000589	± 2.5	PASS	
	VN	20	-0.24	-0.000336	± 2.5	PASS	
VN	30	0.69	0.000967	± 2.5	PASS		
VN	40	0.95	0.001331	± 2.5	PASS		
VN	50	1.5	0.002102	± 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	2.99	0.004247	± 2.5	PASS
		VN	TN	0.93	0.001321	± 2.5	PASS
		VH	TN	1.79	0.002543	± 2.5	PASS
	MCH	VL	TN	-0.6	-0.000848	± 2.5	PASS
		VN	TN	-0.23	-0.000325	± 2.5	PASS
		VH	TN	-1.31	-0.001852	± 2.5	PASS
	HCH	VL	TN	3.45	0.004852	± 2.5	PASS
		VN	TN	3.73	0.005246	± 2.5	PASS
		VH	TN	-0.69	-0.000970	± 2.5	PASS
16QAM	LCH	VL	TN	0.15	0.000213	± 2.5	PASS
		VN	TN	0.17	0.000241	± 2.5	PASS
		VH	TN	-0.27	-0.000384	± 2.5	PASS
	MCH	VL	TN	3.8	0.005371	± 2.5	PASS
		VN	TN	1.96	0.002770	± 2.5	PASS
		VH	TN	-1.09	-0.001541	± 2.5	PASS
	HCH	VL	TN	-0.82	-0.001153	± 2.5	PASS
		VN	TN	-1.89	-0.002658	± 2.5	PASS
		VH	TN	-1.03	-0.001449	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.74	0.002472	± 2.5	PASS
		VN	-20	-1.86	-0.002642	± 2.5	PASS
		VN	-10	1.63	0.002315	± 2.5	PASS
		VN	0	0.43	0.000611	± 2.5	PASS
		VN	10	0.21	0.000298	± 2.5	PASS
		VN	20	-0.22	-0.000313	± 2.5	PASS
		VN	30	3.76	0.005341	± 2.5	PASS
		VN	40	4.73	0.006719	± 2.5	PASS
	MCH	VN	50	1.47	0.002088	± 2.5	PASS
		VN	-30	-0.59	-0.000834	± 2.5	PASS
		VN	-20	2.68	0.003788	± 2.5	PASS
		VN	-10	4.03	0.005696	± 2.5	PASS
		VN	0	3.57	0.005046	± 2.5	PASS
		VN	10	-1.71	-0.002417	± 2.5	PASS
		VN	20	2.15	0.003039	± 2.5	PASS
		VN	30	-1.45	-0.002049	± 2.5	PASS
	HCH	VN	40	2	0.002827	± 2.5	PASS
		VN	50	2.91	0.004113	± 2.5	PASS
		VN	-30	-1.71	-0.002405	± 2.5	PASS
		VN	-20	-0.07	-0.000098	± 2.5	PASS
		VN	-10	3.43	0.004824	± 2.5	PASS
		VN	0	0.52	0.000731	± 2.5	PASS

		VN	10	4.61	0.006484	± 2.5	PASS
		VN	20	2.3	0.003235	± 2.5	PASS
		VN	30	3.16	0.004444	± 2.5	PASS
		VN	40	2.25	0.003165	± 2.5	PASS
		VN	50	4.48	0.006301	± 2.5	PASS
16QAM	LCH	VN	-30	-1.58	-0.002244	± 2.5	PASS
		VN	-20	1.68	0.002386	± 2.5	PASS
		VN	-10	4.21	0.005980	± 2.5	PASS
		VN	0	3.3	0.004688	± 2.5	PASS
		VN	10	1.5	0.002131	± 2.5	PASS
		VN	20	1.67	0.002372	± 2.5	PASS
		VN	30	4.11	0.005838	± 2.5	PASS
		VN	40	3.84	0.005455	± 2.5	PASS
		VN	50	3.67	0.005213	± 2.5	PASS
		MCH	VN	-30	4.8	0.006784	± 2.5
	VN		-20	-1.05	-0.001484	± 2.5	PASS
	VN		-10	1.21	0.001710	± 2.5	PASS
	VN		0	-0.06	-0.000085	± 2.5	PASS
	VN		10	1.34	0.001894	± 2.5	PASS
	VN		20	-1.95	-0.002756	± 2.5	PASS
	VN		30	1.99	0.002813	± 2.5	PASS
	VN		40	0.73	0.001032	± 2.5	PASS
	VN		50	0.02	0.000028	± 2.5	PASS
	HCH		VN	-30	-0.65	-0.000914	± 2.5
		VN	-20	2.92	0.004107	± 2.5	PASS
		VN	-10	3.25	0.004571	± 2.5	PASS
		VN	0	3.78	0.005316	± 2.5	PASS
		VN	10	-0.82	-0.001153	± 2.5	PASS
		VN	20	-1.98	-0.002785	± 2.5	PASS
		VN	30	3.61	0.005077	± 2.5	PASS
		VN	40	-0.92	-0.001294	± 2.5	PASS
		VN	50	2.64	0.003713	± 2.5	PASS

**Band 13**

**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	0.17	0.000218	± 2.5	PASS
		VN	TN	3.17	0.004067	± 2.5	PASS
		VH	TN	0.6	0.000770	± 2.5	PASS
	MCH	VL	TN	-1.92	-0.002455	± 2.5	PASS
		VN	TN	-2	-0.002558	± 2.5	PASS
		VH	TN	1.33	0.001701	± 2.5	PASS
	HCH	VL	TN	3.27	0.004168	± 2.5	PASS
		VN	TN	4.02	0.005124	± 2.5	PASS
		VH	TN	1.21	0.001542	± 2.5	PASS
16QAM	LCH	VL	TN	1.61	0.002065	± 2.5	PASS
		VN	TN	-0.33	-0.000423	± 2.5	PASS
		VH	TN	-0.46	-0.000590	± 2.5	PASS
	MCH	VL	TN	1.76	0.002251	± 2.5	PASS
		VN	TN	-0.58	-0.000742	± 2.5	PASS
		VH	TN	3.5	0.004476	± 2.5	PASS
	HCH	VL	TN	0.66	0.000084	± 2.5	PASS
		VN	TN	0.02	0.000003	± 2.5	PASS
		VH	TN	2.23	0.000285	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.73	-0.000936	± 2.5	PASS
		VN	-20	0.54	0.000693	± 2.5	PASS
		VN	-10	0.28	0.000359	± 2.5	PASS
		VN	0	-1.87	-0.002399	± 2.5	PASS
		VN	10	4.54	0.005824	± 2.5	PASS
		VN	20	3.67	0.004708	± 2.5	PASS
		VN	30	-0.13	-0.000167	± 2.5	PASS
		VN	40	-1.28	-0.001642	± 2.5	PASS
	MCH	VN	50	2.12	0.002720	± 2.5	PASS
		VN	-30	2.84	0.003632	± 2.5	PASS
		VN	-20	4.21	0.005384	± 2.5	PASS
		VN	-10	-1.7	-0.002174	± 2.5	PASS
		VN	0	1.48	0.001893	± 2.5	PASS
		VN	10	2.55	0.003261	± 2.5	PASS
		VN	20	2.01	0.002570	± 2.5	PASS
		VN	30	2.77	0.003542	± 2.5	PASS
	HCH	VN	40	-1.2	-0.001535	± 2.5	PASS
		VN	50	0.52	0.000665	± 2.5	PASS
		VN	-30	0.23	0.000293	± 2.5	PASS
		VN	-20	3.17	0.004041	± 2.5	PASS
		VN	-10	4.58	0.005838	± 2.5	PASS

		VN	0	1.51	0.001925	± 2.5	PASS
		VN	10	-1.23	-0.001568	± 2.5	PASS
		VN	20	3.27	0.004168	± 2.5	PASS
		VN	30	0.49	0.000625	± 2.5	PASS
		VN	40	3.68	0.004691	± 2.5	PASS
		VN	50	-0.63	-0.000808	± 2.5	PASS
16QAM	LCH	VN	-30	0.77	0.000988	± 2.5	PASS
		VN	-20	4.81	0.006171	± 2.5	PASS
		VN	-10	1.21	0.001552	± 2.5	PASS
		VN	0	3.72	0.004772	± 2.5	PASS
		VN	10	0.36	0.000462	± 2.5	PASS
		VN	20	3.68	0.004721	± 2.5	PASS
		VN	30	-1.09	-0.001398	± 2.5	PASS
		VN	40	2.53	0.003246	± 2.5	PASS
	VN	50	-1.26	-0.001616	± 2.5	PASS	
	MCH	VN	-30	2.86	0.003646	± 2.5	PASS
		VN	-20	4.91	0.006259	± 2.5	PASS
		VN	-10	-0.53	-0.000676	± 2.5	PASS
		VN	0	0.16	0.000204	± 2.5	PASS
		VN	10	3.39	0.004321	± 2.5	PASS
		VN	20	2.31	0.002945	± 2.5	PASS
		VN	30	2.39	0.003047	± 2.5	PASS
		VN	40	2.98	0.003799	± 2.5	PASS
	VN	50	1.78	0.002269	± 2.5	PASS	
	HCH	VN	-30	-1.12	-0.001428	± 2.5	PASS
		VN	-20	3.06	0.003901	± 2.5	PASS
		VN	-10	1.42	0.001810	± 2.5	PASS
		VN	0	-1.93	-0.002460	± 2.5	PASS
		VN	10	0.88	0.001122	± 2.5	PASS
		VN	20	3.96	0.005048	± 2.5	PASS
VN		30	-0.23	-0.000293	± 2.5	PASS	
VN		40	4.63	0.005902	± 2.5	PASS	
VN	50	-0.85	-0.001083	± 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	-0.13	-0.000166	± 2.5	PASS
		VN	TN	1.48	0.001893	± 2.5	PASS
		VH	TN	4.56	0.005831	± 2.5	PASS
	MCH	VL	TN	-0.56	-0.000716	± 2.5	PASS
		VN	TN	1.79	0.002289	± 2.5	PASS
		VH	TN	3.68	0.004706	± 2.5	PASS
	HCH	VL	TN	-0.27	-0.000345	± 2.5	PASS
		VN	TN	0.8	0.001023	± 2.5	PASS
		VH	TN	3.14	0.004015	± 2.5	PASS
16QAM	LCH	VL	TN	0.91	0.001164	± 2.5	PASS
		VN	TN	4.55	0.005818	± 2.5	PASS
		VH	TN	-1.85	-0.002366	± 2.5	PASS
	MCH	VL	TN	1.31	0.001675	± 2.5	PASS
		VN	TN	4.07	0.005205	± 2.5	PASS
		VH	TN	3.88	0.004962	± 2.5	PASS
	HCH	VL	TN	1.32	0.001688	± 2.5	PASS
		VN	TN	2.19	0.002801	± 2.5	PASS
		VH	TN	1.76	0.002251	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.38	0.005601	± 2.5	PASS
		VN	-20	-0.9	-0.001151	± 2.5	PASS
		VN	-10	2.11	0.002698	± 2.5	PASS
		VN	0	-1.49	-0.001905	± 2.5	PASS
		VN	10	4.77	0.006100	± 2.5	PASS
		VN	20	2.67	0.003414	± 2.5	PASS
		VN	30	2.89	0.003696	± 2.5	PASS
		VN	40	0.14	0.000179	± 2.5	PASS
	MCH	VN	50	2.54	0.003248	± 2.5	PASS
		VN	-30	-1.73	-0.002212	± 2.5	PASS
		VN	-20	0.77	0.000985	± 2.5	PASS
		VN	-10	1.62	0.002072	± 2.5	PASS
		VN	0	-0.28	-0.000358	± 2.5	PASS
		VN	10	0.3	0.000384	± 2.5	PASS
		VN	20	-1.71	-0.002187	± 2.5	PASS
		VN	30	-1.14	-0.001458	± 2.5	PASS
	HCH	VN	40	0.15	0.000192	± 2.5	PASS
		VN	50	-1.91	-0.002442	± 2.5	PASS
		VN	-30	0.12	0.000153	± 2.5	PASS
		VN	-20	3.31	0.004233	± 2.5	PASS
		VN	-10	0.79	0.001010	± 2.5	PASS
		VN	0	-1.32	-0.001688	± 2.5	PASS

		VN	10	1.81	0.002315	± 2.5	PASS	
		VN	20	4.35	0.005563	± 2.5	PASS	
		VN	30	0.23	0.000294	± 2.5	PASS	
		VN	40	3.56	0.004552	± 2.5	PASS	
		VN	50	3.01	0.003849	± 2.5	PASS	
16QAM	LCH	VN	-30	1.05	0.001343	± 2.5	PASS	
		VN	-20	-0.96	-0.001228	± 2.5	PASS	
		VN	-10	0.57	0.000729	± 2.5	PASS	
		VN	0	-0.88	-0.001125	± 2.5	PASS	
		VN	10	0.56	0.000716	± 2.5	PASS	
		VN	20	3.67	0.004693	± 2.5	PASS	
		VN	30	3.79	0.004847	± 2.5	PASS	
		VN	40	1.17	0.001496	± 2.5	PASS	
		VN	50	-1.81	-0.002315	± 2.5	PASS	
		MCH	VN	-30	1.31	0.001675	± 2.5	PASS
	VN		-20	4.32	0.005524	± 2.5	PASS	
	VN		-10	3.21	0.004105	± 2.5	PASS	
	VN		0	2.7	0.003453	± 2.5	PASS	
	VN		10	3.44	0.004399	± 2.5	PASS	
	VN		20	-0.85	-0.001087	± 2.5	PASS	
	VN		30	0.49	0.000627	± 2.5	PASS	
	VN		40	2.92	0.003734	± 2.5	PASS	
	VN		50	3.61	0.004616	± 2.5	PASS	
	HCH		VN	-30	1.62	0.002072	± 2.5	PASS
		VN	-20	0.04	0.000051	± 2.5	PASS	
		VN	-10	-1.85	-0.002366	± 2.5	PASS	
		VN	0	3.9	0.004987	± 2.5	PASS	
		VN	10	-1.55	-0.001982	± 2.5	PASS	
		VN	20	4.31	0.005512	± 2.5	PASS	
		VN	30	1.12	0.001432	± 2.5	PASS	
		VN	40	1.11	0.001419	± 2.5	PASS	
			VN	50	0.79	0.001010	± 2.5	PASS

**Band 14**

**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	-0.99	-0.001252	± 2.5	PASS
		VN	TN	2.71	0.003428	± 2.5	PASS
		VH	TN	-0.4	-0.000506	± 2.5	PASS
	MCH	VL	TN	4.47	0.005637	± 2.5	PASS
		VN	TN	2.61	0.003291	± 2.5	PASS
		VH	TN	3.19	0.004023	± 2.5	PASS
	HCH	VL	TN	-0.76	-0.000955	± 2.5	PASS
		VN	TN	0.35	0.000440	± 2.5	PASS
		VH	TN	-1.41	-0.001772	± 2.5	PASS
16QAM	LCH	VL	TN	2.44	0.003087	± 2.5	PASS
		VN	TN	1.54	0.001948	± 2.5	PASS
		VH	TN	2.63	0.003327	± 2.5	PASS
	MCH	VL	TN	2.57	0.003241	± 2.5	PASS
		VN	TN	4.61	0.005813	± 2.5	PASS
		VH	TN	2.35	0.002963	± 2.5	PASS
	HCH	VL	TN	0.87	0.001094	± 2.5	PASS
		VN	TN	-0.14	-0.000176	± 2.5	PASS
		VH	TN	-0.46	-0.000578	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.12	0.005212	± 2.5	PASS
		VN	-20	-1.54	-0.001948	± 2.5	PASS
		VN	-10	3.7	0.004681	± 2.5	PASS
		VN	0	-0.04	-0.000051	± 2.5	PASS
		VN	10	-0.83	-0.001050	± 2.5	PASS
		VN	20	1.33	0.001682	± 2.5	PASS
		VN	30	2.43	0.003074	± 2.5	PASS
		VN	40	2.08	0.002631	± 2.5	PASS
	MCH	VN	50	1.92	0.002429	± 2.5	PASS
		VN	-30	1.04	0.001311	± 2.5	PASS
		VN	-20	-0.42	-0.000530	± 2.5	PASS
		VN	-10	3.24	0.004086	± 2.5	PASS
		VN	0	1.87	0.002358	± 2.5	PASS
		VN	10	-1.07	-0.001349	± 2.5	PASS
		VN	20	-1.46	-0.001841	± 2.5	PASS
		VN	30	1.12	0.001412	± 2.5	PASS
	HCH	VN	40	0.9	0.001135	± 2.5	PASS
		VN	50	1.49	0.001879	± 2.5	PASS
		VN	-30	3.71	0.004664	± 2.5	PASS
		VN	-20	0.35	0.000440	± 2.5	PASS
		VN	-10	3.44	0.004324	± 2.5	PASS
		VN	0	-0.97	-0.001219	± 2.5	PASS

		VN	10	1.33	0.001672	± 2.5	PASS	
		VN	20	0.05	0.000063	± 2.5	PASS	
		VN	30	2.08	0.002615	± 2.5	PASS	
		VN	40	3.68	0.004626	± 2.5	PASS	
		VN	50	-0.29	-0.000365	± 2.5	PASS	
16QAM	LCH	VN	-30	4.03	0.005098	± 2.5	PASS	
		VN	-20	-1.14	-0.001442	± 2.5	PASS	
		VN	-10	4.28	0.005414	± 2.5	PASS	
		VN	0	0.54	0.000683	± 2.5	PASS	
		VN	10	2.95	0.003732	± 2.5	PASS	
		VN	20	-1.01	-0.001278	± 2.5	PASS	
		VN	30	3.31	0.004187	± 2.5	PASS	
		VN	40	-0.2	-0.000253	± 2.5	PASS	
		VN	50	-0.38	-0.000481	± 2.5	PASS	
		MCH	VN	-30	-1.16	-0.001463	± 2.5	PASS
	VN		-20	4.17	0.005259	± 2.5	PASS	
	VN		-10	1.61	0.002030	± 2.5	PASS	
	VN		0	0.43	0.000542	± 2.5	PASS	
	VN		10	3.25	0.004098	± 2.5	PASS	
	VN		20	4.28	0.005397	± 2.5	PASS	
	VN		30	2.17	0.002736	± 2.5	PASS	
	VN		40	0.48	0.000605	± 2.5	PASS	
	VN		50	4.52	0.005700	± 2.5	PASS	
	HCH		VN	-30	2.99	0.003759	± 2.5	PASS
		VN	-20	-0.36	-0.000453	± 2.5	PASS	
		VN	-10	2.47	0.003105	± 2.5	PASS	
		VN	0	-0.84	-0.001056	± 2.5	PASS	
		VN	10	0.38	0.000478	± 2.5	PASS	
		VN	20	0.01	0.000013	± 2.5	PASS	
		VN	30	1.25	0.001571	± 2.5	PASS	
		VN	40	0.65	0.000817	± 2.5	PASS	
			VN	50	1.15	0.001446	± 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	1.94	0.002446	± 2.5	PASS
		VN	TN	3.05	0.003846	± 2.5	PASS
		VH	TN	-1.62	-0.002043	± 2.5	PASS
	MCH	VL	TN	1.69	0.002131	± 2.5	PASS
		VN	TN	4.7	0.005927	± 2.5	PASS
		VH	TN	4.83	0.006091	± 2.5	PASS
	HCH	VL	TN	0.27	0.000340	± 2.5	PASS
		VN	TN	-1.43	-0.001803	± 2.5	PASS
		VH	TN	4.33	0.005460	± 2.5	PASS
16QAM	LCH	VL	TN	2.61	0.003291	± 2.5	PASS
		VN	TN	-1.73	-0.002182	± 2.5	PASS
		VH	TN	0.08	0.000101	± 2.5	PASS
	MCH	VL	TN	-1.35	-0.001702	± 2.5	PASS
		VN	TN	1.64	0.002068	± 2.5	PASS
		VH	TN	0.69	0.000870	± 2.5	PASS
	HCH	VL	TN	4.59	0.005788	± 2.5	PASS
		VN	TN	-0.05	-0.000063	± 2.5	PASS
		VH	TN	4.25	0.005359	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.64	-0.002068	± 2.5	PASS
		VN	-20	3.77	0.004754	± 2.5	PASS
		VN	-10	-1.2	-0.001513	± 2.5	PASS
		VN	0	2.59	0.003266	± 2.5	PASS
		VN	10	1.82	0.002295	± 2.5	PASS
		VN	20	2.18	0.002749	± 2.5	PASS
		VN	30	4.74	0.005977	± 2.5	PASS
		VN	40	3.26	0.004111	± 2.5	PASS
	MCH	VN	50	1.2	0.001513	± 2.5	PASS
		VN	-30	3.15	0.003972	± 2.5	PASS
		VN	-20	1.23	0.001551	± 2.5	PASS
		VN	-10	1.87	0.002358	± 2.5	PASS
		VN	0	0.36	0.000454	± 2.5	PASS
		VN	10	3.93	0.004956	± 2.5	PASS
		VN	20	3.35	0.004224	± 2.5	PASS
		VN	30	-0.55	-0.000694	± 2.5	PASS
	HCH	VN	40	1.7	0.002144	± 2.5	PASS
		VN	50	0.06	0.000076	± 2.5	PASS
		VN	-30	0.31	0.000391	± 2.5	PASS
		VN	-20	4.17	0.005259	± 2.5	PASS
		VN	-10	-1.85	-0.002333	± 2.5	PASS
		VN	0	3.31	0.004174	± 2.5	PASS

		VN	10	1.61	0.002030	± 2.5	PASS	
		VN	20	2.35	0.002963	± 2.5	PASS	
		VN	30	0.42	0.000530	± 2.5	PASS	
		VN	40	0.68	0.000858	± 2.5	PASS	
		VN	50	0.2	0.000252	± 2.5	PASS	
16QAM	LCH	VN	-30	4.86	0.006129	± 2.5	PASS	
		VN	-20	0.75	0.000946	± 2.5	PASS	
		VN	-10	-0.12	-0.000151	± 2.5	PASS	
		VN	0	-1.88	-0.002371	± 2.5	PASS	
		VN	10	-0.73	-0.000921	± 2.5	PASS	
		VN	20	2.12	0.002673	± 2.5	PASS	
		VN	30	-0.89	-0.001122	± 2.5	PASS	
		VN	40	-1.07	-0.001349	± 2.5	PASS	
		VN	50	0.38	0.000479	± 2.5	PASS	
		MCH	VN	-30	-0.36	-0.000454	± 2.5	PASS
	VN		-20	3.58	0.004515	± 2.5	PASS	
	VN		-10	2.01	0.002535	± 2.5	PASS	
	VN		0	4.45	0.005612	± 2.5	PASS	
	VN		10	2.4	0.003026	± 2.5	PASS	
	VN		20	-1.34	-0.001690	± 2.5	PASS	
	VN		30	1.08	0.001362	± 2.5	PASS	
	VN		40	2.35	0.002963	± 2.5	PASS	
	VN		50	0.47	0.000593	± 2.5	PASS	
	HCH		VN	-30	4.92	0.006204	± 2.5	PASS
		VN	-20	2.33	0.002938	± 2.5	PASS	
		VN	-10	-1.99	-0.002509	± 2.5	PASS	
		VN	0	4.11	0.005183	± 2.5	PASS	
		VN	10	-0.34	-0.000429	± 2.5	PASS	
		VN	20	4.74	0.005977	± 2.5	PASS	
		VN	30	-1.74	-0.002194	± 2.5	PASS	
		VN	40	-1.47	-0.001854	± 2.5	PASS	
			VN	50	4.04	0.005095	± 2.5	PASS

**Band 66**

**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	-1.4	-0.000818	± 2.5	PASS
		VN	TN	2.46	0.001438	± 2.5	PASS
		VH	TN	2.95	0.001724	± 2.5	PASS
	MCH	VL	TN	3.38	0.001937	± 2.5	PASS
		VN	TN	0.98	0.000562	± 2.5	PASS
		VH	TN	4.9	0.002808	± 2.5	PASS
	HCH	VL	TN	0.62	0.000348	± 2.5	PASS
		VN	TN	0.45	0.000253	± 2.5	PASS
		VH	TN	4.23	0.002377	± 2.5	PASS
16QAM	LCH	VL	TN	1.71	0.001000	± 2.5	PASS
		VN	TN	0.98	0.000573	± 2.5	PASS
		VH	TN	2.54	0.001485	± 2.5	PASS
	MCH	VL	TN	-1.37	-0.000785	± 2.5	PASS
		VN	TN	-0.64	-0.000367	± 2.5	PASS
		VH	TN	4.73	0.002711	± 2.5	PASS
	HCH	VL	TN	0.68	0.000382	± 2.5	PASS
		VN	TN	2.76	0.001551	± 2.5	PASS
		VH	TN	2.37	0.001332	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.82	0.000479	± 2.5	PASS
		VN	-20	2.59	0.001514	± 2.5	PASS
		VN	-10	-1.49	-0.000871	± 2.5	PASS
		VN	0	-0.16	-0.000094	± 2.5	PASS
		VN	10	0.88	0.000514	± 2.5	PASS
		VN	20	-0.74	-0.000433	± 2.5	PASS
		VN	30	0.37	0.000216	± 2.5	PASS
		VN	40	-0.18	-0.000105	± 2.5	PASS
	MCH	VN	50	2.18	0.001274	± 2.5	PASS
		VN	-30	3.93	0.002252	± 2.5	PASS
		VN	-20	4.13	0.002367	± 2.5	PASS
		VN	-10	2.07	0.001186	± 2.5	PASS
		VN	0	3.91	0.002241	± 2.5	PASS
		VN	10	-0.91	-0.000521	± 2.5	PASS
		VN	20	4.31	0.002470	± 2.5	PASS
		VN	30	2.7	0.001547	± 2.5	PASS
	HCH	VN	40	-1.1	-0.000630	± 2.5	PASS
		VN	50	4.8	0.002751	± 2.5	PASS
		VN	-30	-1.56	-0.000877	± 2.5	PASS
		VN	-20	1.7	0.000955	± 2.5	PASS
		VN	-10	1.6	0.000899	± 2.5	PASS

		VN	0	-1.4	-0.000787	± 2.5	PASS
		VN	10	1.84	0.001034	± 2.5	PASS
		VN	20	-1.22	-0.000686	± 2.5	PASS
		VN	30	3.2	0.001798	± 2.5	PASS
		VN	40	2.07	0.001163	± 2.5	PASS
		VN	50	-0.81	-0.000455	± 2.5	PASS
16QAM	LCH	VN	-30	2.62	0.001532	± 2.5	PASS
		VN	-20	-0.96	-0.000561	± 2.5	PASS
		VN	-10	-0.07	-0.000041	± 2.5	PASS
		VN	0	4.26	0.002490	± 2.5	PASS
		VN	10	4.09	0.002391	± 2.5	PASS
		VN	20	-1.57	-0.000918	± 2.5	PASS
		VN	30	1.04	0.000608	± 2.5	PASS
		VN	40	1.75	0.001023	± 2.5	PASS
		VN	50	4.14	0.002420	± 2.5	PASS
	MCH	VN	-30	-0.31	-0.000178	± 2.5	PASS
		VN	-20	-1.2	-0.000688	± 2.5	PASS
		VN	-10	1.21	0.000693	± 2.5	PASS
		VN	0	2.54	0.001456	± 2.5	PASS
		VN	10	3.89	0.002229	± 2.5	PASS
		VN	20	1.98	0.001135	± 2.5	PASS
		VN	30	-0.42	-0.000241	± 2.5	PASS
		VN	40	-1.39	-0.000797	± 2.5	PASS
		VN	50	-0.25	-0.000143	± 2.5	PASS
	HCH	VN	-30	4.23	0.002377	± 2.5	PASS
		VN	-20	1.4	0.000787	± 2.5	PASS
		VN	-10	2.63	0.001478	± 2.5	PASS
		VN	0	4.38	0.002462	± 2.5	PASS
		VN	10	0.77	0.000433	± 2.5	PASS
		VN	20	-0.63	-0.000354	± 2.5	PASS
		VN	30	4.38	0.002462	± 2.5	PASS
		VN	40	1.97	0.001107	± 2.5	PASS
		VN	50	-0.2	-0.000112	± 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	-0.24	-0.000140	± 2.5	PASS
		VN	TN	2.93	0.001712	± 2.5	PASS
		VH	TN	3.59	0.002098	± 2.5	PASS
	MCH	VL	TN	0.98	0.000562	± 2.5	PASS
		VN	TN	0.59	0.000338	± 2.5	PASS
		VH	TN	3.62	0.002074	± 2.5	PASS
	HCH	VL	TN	0.07	0.000039	± 2.5	PASS
		VN	TN	3	0.001687	± 2.5	PASS
		VH	TN	-0.36	-0.000202	± 2.5	PASS
16QAM	LCH	VL	TN	2.69	0.001572	± 2.5	PASS

		VN	TN	-1.62	-0.000947	± 2.5	PASS			
		VH	TN	-1.23	-0.000719	± 2.5	PASS			
		MCH		VL	TN	3.25	0.001862	± 2.5	PASS	
			VN	TN	1.8	0.001032	± 2.5	PASS		
			VH	TN	3.54	0.002029	± 2.5	PASS		
			HCH		VL	TN	-0.06	-0.000034	± 2.5	PASS
			VN	TN	3.77	0.002120	± 2.5	PASS		
			VH	TN	-0.49	-0.000276	± 2.5	PASS		
	Temperature									
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
QPSK	LCH	VN	-30	2.14	0.001250	± 2.5	PASS			
		VN	-20	2.79	0.001630	± 2.5	PASS			
		VN	-10	-0.85	-0.000497	± 2.5	PASS			
		VN	0	-1.44	-0.000841	± 2.5	PASS			
		VN	10	4.96	0.002898	± 2.5	PASS			
		VN	20	2.66	0.001554	± 2.5	PASS			
		VN	30	-1.49	-0.000871	± 2.5	PASS			
		VN	40	1.98	0.001157	± 2.5	PASS			
		VN	50	3.15	0.001840	± 2.5	PASS			
	MCH	VN	-30	2.24	0.001284	± 2.5	PASS			
		VN	-20	3.3	0.001891	± 2.5	PASS			
		VN	-10	0.51	0.000292	± 2.5	PASS			
		VN	0	3.88	0.002223	± 2.5	PASS			
		VN	10	-1.4	-0.000802	± 2.5	PASS			
		VN	20	2.99	0.001713	± 2.5	PASS			
		VN	30	4	0.002292	± 2.5	PASS			
		VN	40	0.47	0.000269	± 2.5	PASS			
		VN	50	2.46	0.001410	± 2.5	PASS			
	HCH	VN	-30	1.23	0.000692	± 2.5	PASS			
		VN	-20	-1.01	-0.000568	± 2.5	PASS			
		VN	-10	4.35	0.002446	± 2.5	PASS			
		VN	0	0.12	0.000067	± 2.5	PASS			
		VN	10	1.86	0.001046	± 2.5	PASS			
		VN	20	0.93	0.000523	± 2.5	PASS			
		VN	30	0.82	0.000461	± 2.5	PASS			
		VN	40	2.7	0.001518	± 2.5	PASS			
		VN	50	-1.11	-0.000624	± 2.5	PASS			
	16QAM	LCH	VN	-30	-0.07	-0.000041	± 2.5	PASS		
VN			-20	3.62	0.002115	± 2.5	PASS			
VN			-10	4.3	0.002512	± 2.5	PASS			
VN			0	1.55	0.000906	± 2.5	PASS			
VN			10	-1.35	-0.000789	± 2.5	PASS			
VN			20	2.52	0.001472	± 2.5	PASS			
VN			30	0.45	0.000263	± 2.5	PASS			
VN			40	1.75	0.001022	± 2.5	PASS			
VN			50	3.71	0.002168	± 2.5	PASS			
MCH		VN	-30	2.45	0.001404	± 2.5	PASS			
		VN	-20	2.8	0.001605	± 2.5	PASS			

	VN	-10	3.18	0.001822	± 2.5	PASS	
		0	4.37	0.002504	± 2.5	PASS	
		10	2.66	0.001524	± 2.5	PASS	
		20	-0.87	-0.000499	± 2.5	PASS	
		30	3.89	0.002229	± 2.5	PASS	
		40	3.27	0.001874	± 2.5	PASS	
		50	2.66	0.001524	± 2.5	PASS	
	HCH	VN	-30	0.79	0.000444	± 2.5	PASS
		VN	-20	4.47	0.002513	± 2.5	PASS
		VN	-10	1.3	0.000731	± 2.5	PASS
		VN	0	0.88	0.000495	± 2.5	PASS
		VN	10	3.91	0.002198	± 2.5	PASS
		VN	20	-1.75	-0.000984	± 2.5	PASS
		VN	30	3.02	0.001698	± 2.5	PASS
		VN	40	4.46	0.002508	± 2.5	PASS
		VN	50	4.01	0.002255	± 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	-0.43	-0.000251	± 2.5	PASS
		VN	TN	2.29	0.001337	± 2.5	PASS
		VH	TN	-1.88	-0.001098	± 2.5	PASS
	MCH	VL	TN	1.59	0.000911	± 2.5	PASS
		VN	TN	0.93	0.000533	± 2.5	PASS
		VH	TN	4.47	0.002562	± 2.5	PASS
	HCH	VL	TN	3.71	0.002087	± 2.5	PASS
		VN	TN	3.34	0.001879	± 2.5	PASS
		VH	TN	3.89	0.002188	± 2.5	PASS
16QAM	LCH	VL	TN	4.24	0.002476	± 2.5	PASS
		VN	TN	2.95	0.001723	± 2.5	PASS
		VH	TN	-0.96	-0.000561	± 2.5	PASS
	MCH	VL	TN	4.76	0.002728	± 2.5	PASS
		VN	TN	-1.71	-0.000980	± 2.5	PASS
		VH	TN	-1.99	-0.001140	± 2.5	PASS
	HCH	VL	TN	3.49	0.001963	± 2.5	PASS
		VN	TN	0.92	0.000518	± 2.5	PASS
		VH	TN	3.31	0.001862	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.55	0.001489	± 2.5	PASS
		VN	-20	-0.09	-0.000053	± 2.5	PASS
		VN	-10	1.55	0.000905	± 2.5	PASS
		VN	0	2.46	0.001436	± 2.5	PASS
		VN	10	0.36	0.000210	± 2.5	PASS
		VN	20	4.42	0.002581	± 2.5	PASS

		VN	30	1.66	0.000969	± 2.5	PASS	
		VN	40	1.94	0.001133	± 2.5	PASS	
		VN	50	2.35	0.001372	± 2.5	PASS	
	MCH	VN	-30	2.99	0.001713	± 2.5	PASS	
		VN	-20	-0.87	-0.000499	± 2.5	PASS	
		VN	-10	-0.16	-0.000092	± 2.5	PASS	
		VN	0	0.39	0.000223	± 2.5	PASS	
		VN	10	-1.29	-0.000739	± 2.5	PASS	
		VN	20	3.99	0.002287	± 2.5	PASS	
		VN	30	2.1	0.001203	± 2.5	PASS	
		VN	40	0.67	0.000384	± 2.5	PASS	
		VN	50	-1.41	-0.000808	± 2.5	PASS	
		HCH	VN	-30	4.55	0.002560	± 2.5	PASS
			VN	-20	1.21	0.000681	± 2.5	PASS
			VN	-10	2.49	0.001401	± 2.5	PASS
	VN		0	0.32	0.000180	± 2.5	PASS	
	VN		10	-0.48	-0.000270	± 2.5	PASS	
	VN		20	4.11	0.002312	± 2.5	PASS	
VN	30		4.56	0.002565	± 2.5	PASS		
VN	40		4.45	0.002504	± 2.5	PASS		
VN	50	3.28	0.001845	± 2.5	PASS			
16QAM	LCH	VN	-30	-0.37	-0.000216	± 2.5	PASS	
		VN	-20	-1.75	-0.001022	± 2.5	PASS	
		VN	-10	3.33	0.001945	± 2.5	PASS	
		VN	0	1.76	0.001028	± 2.5	PASS	
		VN	10	0.71	0.000415	± 2.5	PASS	
		VN	20	-0.26	-0.000152	± 2.5	PASS	
		VN	30	4.85	0.002832	± 2.5	PASS	
		VN	40	3.43	0.002003	± 2.5	PASS	
		VN	50	3.26	0.001904	± 2.5	PASS	
	MCH	VN	-30	3.51	0.002011	± 2.5	PASS	
		VN	-20	2.64	0.001513	± 2.5	PASS	
		VN	-10	1.19	0.000682	± 2.5	PASS	
		VN	0	-1.62	-0.000928	± 2.5	PASS	
		VN	10	1.18	0.000676	± 2.5	PASS	
		VN	20	-0.78	-0.000447	± 2.5	PASS	
		VN	30	4.38	0.002510	± 2.5	PASS	
		VN	40	3.87	0.002218	± 2.5	PASS	
		VN	50	0.16	0.000092	± 2.5	PASS	
	HCH	VN	-30	-0.51	-0.000287	± 2.5	PASS	
		VN	-20	-0.59	-0.000332	± 2.5	PASS	
		VN	-10	4.11	0.002312	± 2.5	PASS	
		VN	0	1.53	0.000861	± 2.5	PASS	
		VN	10	-1.12	-0.000630	± 2.5	PASS	
		VN	20	-0.3	-0.000169	± 2.5	PASS	
		VN	30	1.09	0.000613	± 2.5	PASS	
		VN	40	-0.07	-0.000039	± 2.5	PASS	
		VN	50	-1.62	-0.000911	± 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	1.77	0.001032	± 2.5	PASS
		VN	TN	0.68	0.000397	± 2.5	PASS
		VH	TN	4.11	0.002397	± 2.5	PASS
	MCH	VL	TN	4.57	0.002619	± 2.5	PASS
		VN	TN	3.81	0.002183	± 2.5	PASS
		VH	TN	2.34	0.001341	± 2.5	PASS
	HCH	VL	TN	-1.39	-0.000783	± 2.5	PASS
		VN	TN	1.25	0.000704	± 2.5	PASS
		VH	TN	0.59	0.000332	± 2.5	PASS
16QAM	LCH	VL	TN	2.07	0.001207	± 2.5	PASS
		VN	TN	3.12	0.001819	± 2.5	PASS
		VH	TN	0.39	0.000227	± 2.5	PASS
	MCH	VL	TN	0.22	0.000126	± 2.5	PASS
		VN	TN	4.63	0.002653	± 2.5	PASS
		VH	TN	-0.82	-0.000470	± 2.5	PASS
	HCH	VL	TN	-1.7	-0.000958	± 2.5	PASS
		VN	TN	4.57	0.002575	± 2.5	PASS
		VH	TN	0.47	0.000265	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.08	0.001796	± 2.5	PASS
		VN	-20	-2	-0.001166	± 2.5	PASS
		VN	-10	1.34	0.000781	± 2.5	PASS
		VN	0	3.58	0.002087	± 2.5	PASS
		VN	10	0.81	0.000472	± 2.5	PASS
		VN	20	-0.17	-0.000099	± 2.5	PASS
		VN	30	3.94	0.002297	± 2.5	PASS
		VN	40	4.23	0.002466	± 2.5	PASS
	MCH	VN	50	-1.22	-0.000711	± 2.5	PASS
		VN	-30	4.22	0.002418	± 2.5	PASS
		VN	-20	2.4	0.001375	± 2.5	PASS
		VN	-10	2.22	0.001272	± 2.5	PASS
		VN	0	0.3	0.000172	± 2.5	PASS
		VN	10	1.42	0.000814	± 2.5	PASS
		VN	20	-0.54	-0.000309	± 2.5	PASS
		VN	30	0.84	0.000481	± 2.5	PASS
	HCH	VN	40	0.47	0.000269	± 2.5	PASS
		VN	50	2.26	0.001295	± 2.5	PASS
		VN	-30	-0.8	-0.000451	± 2.5	PASS
		VN	-20	-0.88	-0.000496	± 2.5	PASS
		VN	-10	0.51	0.000287	± 2.5	PASS
		VN	0	4.67	0.002631	± 2.5	PASS



		VN	10	1.6	0.000901	± 2.5	PASS
		VN	20	-1.41	-0.000794	± 2.5	PASS
		VN	30	-0.82	-0.000462	± 2.5	PASS
		VN	40	-0.85	-0.000479	± 2.5	PASS
		VN	50	2.01	0.001132	± 2.5	PASS
16QAM	LCH	VN	-30	1.02	0.000595	± 2.5	PASS
		VN	-20	3.18	0.001854	± 2.5	PASS
		VN	-10	2.16	0.001259	± 2.5	PASS
		VN	0	0.92	0.000536	± 2.5	PASS
		VN	10	-0.13	-0.000076	± 2.5	PASS
		VN	20	-1.33	-0.000776	± 2.5	PASS
		VN	30	2.31	0.001347	± 2.5	PASS
		VN	40	0.1	0.000058	± 2.5	PASS
		VN	50	-1.09	-0.000636	± 2.5	PASS
	MCH	VN	-30	4.47	0.002562	± 2.5	PASS
		VN	-20	-1.28	-0.000734	± 2.5	PASS
		VN	-10	2.17	0.001244	± 2.5	PASS
		VN	0	1.53	0.000877	± 2.5	PASS
		VN	10	4.15	0.002378	± 2.5	PASS
		VN	20	2.35	0.001347	± 2.5	PASS
		VN	30	1.75	0.001003	± 2.5	PASS
		VN	40	2.39	0.001370	± 2.5	PASS
		VN	50	0.6	0.000344	± 2.5	PASS
	HCH	VN	-30	-1.86	-0.001048	± 2.5	PASS
		VN	-20	4.8	0.002704	± 2.5	PASS
		VN	-10	-1.68	-0.000946	± 2.5	PASS
		VN	0	1.55	0.000873	± 2.5	PASS
		VN	10	2.31	0.001301	± 2.5	PASS
		VN	20	3.99	0.002248	± 2.5	PASS
		VN	30	4.58	0.002580	± 2.5	PASS
		VN	40	0.68	0.000383	± 2.5	PASS
		VN	50	4.95	0.002789	± 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	0.78	0.000454	± 2.5	PASS
		VN	TN	3.85	0.002242	± 2.5	PASS
		VH	TN	1.35	0.000786	± 2.5	PASS
	MCH	VL	TN	1.78	0.001020	± 2.5	PASS
		VN	TN	-0.14	-0.000080	± 2.5	PASS
		VH	TN	1.87	0.001072	± 2.5	PASS
	HCH	VL	TN	-1.92	-0.001083	± 2.5	PASS
		VN	TN	-0.4	-0.000226	± 2.5	PASS
		VH	TN	1.18	0.000666	± 2.5	PASS
16QAM	LCH	VL	TN	2.36	0.001374	± 2.5	PASS
		VN	TN	0.94	0.000547	± 2.5	PASS

	MCH	VH	TN	-0.51	-0.000297	± 2.5	PASS	
		VL	TN	3.75	0.002149	± 2.5	PASS	
		VN	TN	3.65	0.002092	± 2.5	PASS	
	HCH	VH	TN	2.5	0.001433	± 2.5	PASS	
		VL	TN	-0.1	-0.000056	± 2.5	PASS	
		VN	TN	-0.84	-0.000474	± 2.5	PASS	
	VH	TN	3.61	0.002037	± 2.5	PASS		
Temperature								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
QPSK	LCH	VN	-30	1.83	0.001066	± 2.5	PASS	
		VN	-20	-1.35	-0.000786	± 2.5	PASS	
		VN	-10	-0.38	-0.000221	± 2.5	PASS	
		VN	0	1.95	0.001135	± 2.5	PASS	
		VN	10	4.53	0.002638	± 2.5	PASS	
		VN	20	3.02	0.001758	± 2.5	PASS	
		VN	30	4.23	0.002463	± 2.5	PASS	
		VN	40	-1.93	-0.001124	± 2.5	PASS	
		VN	50	1.18	0.000687	± 2.5	PASS	
	MCH	VN	-30	2.64	0.001513	± 2.5	PASS	
		VN	-20	0.23	0.000132	± 2.5	PASS	
		VN	-10	2.14	0.001226	± 2.5	PASS	
		VN	0	1.44	0.000825	± 2.5	PASS	
		VN	10	-1.52	-0.000871	± 2.5	PASS	
		VN	20	3.67	0.002103	± 2.5	PASS	
		VN	30	4.06	0.002327	± 2.5	PASS	
		VN	40	0	0.000000	± 2.5	PASS	
	HCH	VN	50	-0.14	-0.000080	± 2.5	PASS	
		VN	-30	3	0.001693	± 2.5	PASS	
		VN	-20	-1.47	-0.000829	± 2.5	PASS	
		VN	-10	-1.94	-0.001094	± 2.5	PASS	
		VN	0	0.47	0.000265	± 2.5	PASS	
		VN	10	-0.54	-0.000305	± 2.5	PASS	
		VN	20	-1.63	-0.000920	± 2.5	PASS	
		VN	30	-1.29	-0.000728	± 2.5	PASS	
		VN	40	-0.36	-0.000203	± 2.5	PASS	
	16QAM	LCH	VN	50	-0.95	-0.000536	± 2.5	PASS
			VN	-30	-0.69	-0.000402	± 2.5	PASS
VN			-20	2.67	0.001555	± 2.5	PASS	
VN			-10	1.26	0.000734	± 2.5	PASS	
VN			0	2.15	0.001252	± 2.5	PASS	
VN			10	3.86	0.002247	± 2.5	PASS	
VN			20	-1.84	-0.001071	± 2.5	PASS	
VN			30	0.91	0.000530	± 2.5	PASS	
VN			40	-0.3	-0.000175	± 2.5	PASS	
MCH		VN	50	3.48	0.002026	± 2.5	PASS	
		VN	-30	4.33	0.002481	± 2.5	PASS	
		VN	-20	0.51	0.000292	± 2.5	PASS	
		VN	-10	3.72	0.002132	± 2.5	PASS	

		VN	0	0.06	0.000034	± 2.5	PASS
		VN	10	0.45	0.000258	± 2.5	PASS
		VN	20	3.31	0.001897	± 2.5	PASS
		VN	30	3.55	0.002034	± 2.5	PASS
		VN	40	2.31	0.001324	± 2.5	PASS
		VN	50	0.38	0.000218	± 2.5	PASS
	HCH	VN	-30	1.94	0.001094	± 2.5	PASS
		VN	-20	2.69	0.001518	± 2.5	PASS
		VN	-10	-1.69	-0.000953	± 2.5	PASS
		VN	0	4.16	0.002347	± 2.5	PASS
		VN	10	3	0.001693	± 2.5	PASS
		VN	20	0.48	0.000271	± 2.5	PASS
		VN	30	5	0.002821	± 2.5	PASS
		VN	40	1.31	0.000739	± 2.5	PASS
		VN	50	2.57	0.001450	± 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	-1.3	-0.000756	± 2.5	PASS
		VN	TN	-0.81	-0.000471	± 2.5	PASS
		VH	TN	0.52	0.000302	± 2.5	PASS
	MCH	VL	TN	2.59	0.001484	± 2.5	PASS
		VN	TN	-1.66	-0.000951	± 2.5	PASS
		VH	TN	1.99	0.001140	± 2.5	PASS
	HCH	VL	TN	3.38	0.001910	± 2.5	PASS
		VN	TN	1.74	0.000983	± 2.5	PASS
		VH	TN	0.87	0.000492	± 2.5	PASS
16QAM	LCH	VL	TN	2.9	0.001686	± 2.5	PASS
		VN	TN	0.38	0.000221	± 2.5	PASS
		VH	TN	3.52	0.002047	± 2.5	PASS
	MCH	VL	TN	4.91	0.002814	± 2.5	PASS
		VN	TN	-0.49	-0.000281	± 2.5	PASS
		VH	TN	-0.29	-0.000166	± 2.5	PASS
	HCH	VL	TN	0.48	0.000271	± 2.5	PASS
		VN	TN	-1.22	-0.000689	± 2.5	PASS
		VH	TN	-1.55	-0.000876	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.88	-0.001093	± 2.5	PASS
		VN	-20	-1.97	-0.001145	± 2.5	PASS
		VN	-10	3.85	0.002238	± 2.5	PASS
		VN	0	3.74	0.002174	± 2.5	PASS
		VN	10	2.59	0.001506	± 2.5	PASS
		VN	20	3.29	0.001913	± 2.5	PASS
		VN	30	1.44	0.000837	± 2.5	PASS

		VN	40	-1.48	-0.000860	± 2.5	PASS
		VN	50	-0.95	-0.000552	± 2.5	PASS
	MCH	VN	-30	4.45	0.002550	± 2.5	PASS
		VN	-20	3.83	0.002195	± 2.5	PASS
		VN	-10	-0.53	-0.000304	± 2.5	PASS
		VN	0	0.21	0.000120	± 2.5	PASS
		VN	10	-0.96	-0.000550	± 2.5	PASS
		VN	20	1.4	0.000802	± 2.5	PASS
		VN	30	4.08	0.002338	± 2.5	PASS
		VN	40	0.08	0.000046	± 2.5	PASS
		VN	50	1.78	0.001020	± 2.5	PASS
		HCH	VN	-30	-1.8	-0.001017	± 2.5
	VN		-20	2.18	0.001232	± 2.5	PASS
	VN		-10	4.22	0.002384	± 2.5	PASS
	VN		0	4.51	0.002548	± 2.5	PASS
	VN		10	0.36	0.000203	± 2.5	PASS
	VN		20	1.23	0.000695	± 2.5	PASS
	VN		30	-0.16	-0.000090	± 2.5	PASS
	VN		40	1.98	0.001119	± 2.5	PASS
	16QAM	LCH	VN	-30	3	0.001744	± 2.5
VN			-20	4.03	0.002343	± 2.5	PASS
VN			-10	3.7	0.002151	± 2.5	PASS
VN			0	4.04	0.002349	± 2.5	PASS
VN			10	0.24	0.000140	± 2.5	PASS
VN			20	-1.69	-0.000983	± 2.5	PASS
VN			30	0.87	0.000506	± 2.5	PASS
VN			40	0.07	0.000041	± 2.5	PASS
MCH		VN	50	4.21	0.002448	± 2.5	PASS
		VN	-30	-0.09	-0.000052	± 2.5	PASS
		VN	-20	-1.41	-0.000808	± 2.5	PASS
		VN	-10	2.25	0.001289	± 2.5	PASS
		VN	0	0.35	0.000201	± 2.5	PASS
		VN	10	-1.97	-0.001129	± 2.5	PASS
		VN	20	3.98	0.002281	± 2.5	PASS
		VN	30	1.57	0.000900	± 2.5	PASS
		VN	40	1.84	0.001054	± 2.5	PASS
HCH		VN	50	-0.33	-0.000189	± 2.5	PASS
		VN	-30	3.37	0.001904	± 2.5	PASS
		VN	-20	2.88	0.001627	± 2.5	PASS
	VN	-10	-0.43	-0.000243	± 2.5	PASS	
	VN	0	4.23	0.002390	± 2.5	PASS	
	VN	10	-0.84	-0.000475	± 2.5	PASS	
	VN	20	4.89	0.002763	± 2.5	PASS	
	VN	30	-1.63	-0.000921	± 2.5	PASS	
	VN	40	4.68	0.002644	± 2.5	PASS	
VN	50	2.27	0.001282	± 2.5	PASS		

**Band 71**

**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	4.74	0.007122	± 2.5	PASS
		VN	TN	-0.09	-0.000135	± 2.5	PASS
		VH	TN	-1.62	-0.002434	± 2.5	PASS
	MCH	VL	TN	3.4	0.004996	± 2.5	PASS
		VN	TN	4.62	0.006789	± 2.5	PASS
		VH	TN	-0.5	-0.000735	± 2.5	PASS
	HCH	VL	TN	3.9	0.005607	± 2.5	PASS
		VN	TN	4.77	0.006858	± 2.5	PASS
		VH	TN	-0.88	-0.001265	± 2.5	PASS
16QAM	LCH	VL	TN	4.71	0.007077	± 2.5	PASS
		VN	TN	-0.03	-0.000045	± 2.5	PASS
		VH	TN	-1.61	-0.002419	± 2.5	PASS
	MCH	VL	TN	-0.57	-0.000838	± 2.5	PASS
		VN	TN	3.38	0.004967	± 2.5	PASS
		VH	TN	2.12	0.003115	± 2.5	PASS
	HCH	VL	TN	-1.78	-0.002559	± 2.5	PASS
		VN	TN	3.59	0.005162	± 2.5	PASS
		VH	TN	-1.26	-0.001812	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.01	-0.000015	± 2.5	PASS
		VN	-20	3.92	0.005890	± 2.5	PASS
		VN	-10	4.76	0.007153	± 2.5	PASS
		VN	0	4.03	0.006056	± 2.5	PASS
		VN	10	4.9	0.007363	± 2.5	PASS
		VN	20	3.83	0.005755	± 2.5	PASS
		VN	30	-0.66	-0.000992	± 2.5	PASS
		VN	40	-0.61	-0.000917	± 2.5	PASS
	MCH	VN	50	-1.27	-0.001908	± 2.5	PASS
		VN	-30	0.34	0.000500	± 2.5	PASS
		VN	-20	2.58	0.003791	± 2.5	PASS
		VN	-10	0.71	0.001043	± 2.5	PASS
		VN	0	3.85	0.005658	± 2.5	PASS
		VN	10	2.64	0.003880	± 2.5	PASS
		VN	20	2.44	0.003586	± 2.5	PASS
		VN	30	2.98	0.004379	± 2.5	PASS
	HCH	VN	40	-1.99	-0.002924	± 2.5	PASS
		VN	50	-1.18	-0.001734	± 2.5	PASS
		VN	-30	-0.22	-0.000316	± 2.5	PASS
		VN	-20	0.73	0.001050	± 2.5	PASS
		VN	-10	4.02	0.005780	± 2.5	PASS

		VN	0	4.49	0.006456	± 2.5	PASS
		VN	10	2.95	0.004242	± 2.5	PASS
		VN	20	-1.14	-0.001639	± 2.5	PASS
		VN	30	2.97	0.004270	± 2.5	PASS
		VN	40	3.51	0.005047	± 2.5	PASS
		VN	50	4.37	0.006283	± 2.5	PASS
16QAM	LCH	VN	-30	0.38	0.000571	± 2.5	PASS
		VN	-20	0.76	0.001142	± 2.5	PASS
		VN	-10	0.29	0.000436	± 2.5	PASS
		VN	0	-1.91	-0.002870	± 2.5	PASS
		VN	10	3.43	0.005154	± 2.5	PASS
		VN	20	-0.78	-0.001172	± 2.5	PASS
		VN	30	1.72	0.002585	± 2.5	PASS
		VN	40	2.82	0.004237	± 2.5	PASS
		VN	50	-0.6	-0.000902	± 2.5	PASS
	MCH	VN	-30	2.77	0.004071	± 2.5	PASS
		VN	-20	2.93	0.004306	± 2.5	PASS
		VN	-10	-1.47	-0.002160	± 2.5	PASS
		VN	0	1.42	0.002087	± 2.5	PASS
		VN	10	-1.96	-0.002880	± 2.5	PASS
		VN	20	1.84	0.002704	± 2.5	PASS
		VN	30	-1.84	-0.002704	± 2.5	PASS
		VN	40	0.9	0.001323	± 2.5	PASS
		VN	50	-0.12	-0.000176	± 2.5	PASS
	HCH	VN	-30	-0.48	-0.000690	± 2.5	PASS
		VN	-20	-0.08	-0.000115	± 2.5	PASS
		VN	-10	3.53	0.005075	± 2.5	PASS
		VN	0	3	0.004313	± 2.5	PASS
		VN	10	3.01	0.004328	± 2.5	PASS
		VN	20	-1.23	-0.001769	± 2.5	PASS
		VN	30	1.86	0.002674	± 2.5	PASS
		VN	40	2.22	0.003192	± 2.5	PASS
		VN	50	-0.43	-0.000618	± 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	1.56	0.002335	± 2.5	PASS
		VN	TN	3.16	0.004731	± 2.5	PASS
		VH	TN	2.39	0.003578	± 2.5	PASS
	MCH	VL	TN	3.64	0.005349	± 2.5	PASS
		VN	TN	0.03	0.000044	± 2.5	PASS
		VH	TN	0.12	0.000176	± 2.5	PASS
	HCH	VL	TN	2.69	0.003882	± 2.5	PASS
		VN	TN	3.85	0.005556	± 2.5	PASS
		VH	TN	-0.26	-0.000375	± 2.5	PASS
16QAM	LCH	VL	TN	-1.85	-0.002769	± 2.5	PASS

		VN	TN	2.4	0.003593	± 2.5	PASS
		VH	TN	-1.14	-0.001707	± 2.5	PASS
		VL	TN	4.2	0.006172	± 2.5	PASS
	MCH	VN	TN	-1.86	-0.002733	± 2.5	PASS
		VH	TN	3.86	0.005672	± 2.5	PASS
		VL	TN	2.88	0.004156	± 2.5	PASS
	HCH	VN	TN	-0.12	-0.000173	± 2.5	PASS
		VH	TN	1.03	0.001486	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.12	0.000180	± 2.5	PASS
		VN	-20	0.67	0.001003	± 2.5	PASS
		VN	-10	-1.56	-0.002335	± 2.5	PASS
		VN	0	4.14	0.006198	± 2.5	PASS
		VN	10	-1.62	-0.002425	± 2.5	PASS
		VN	20	4.39	0.006572	± 2.5	PASS
		VN	30	3.8	0.005689	± 2.5	PASS
		VN	40	0.21	0.000314	± 2.5	PASS
		VN	50	1.32	0.001976	± 2.5	PASS
	MCH	VN	-30	0.93	0.001367	± 2.5	PASS
		VN	-20	4.47	0.006569	± 2.5	PASS
		VN	-10	3.25	0.004776	± 2.5	PASS
		VN	0	-1.08	-0.001587	± 2.5	PASS
		VN	10	1.63	0.002395	± 2.5	PASS
		VN	20	0.72	0.001058	± 2.5	PASS
		VN	30	0.13	0.000191	± 2.5	PASS
		VN	40	2.02	0.002968	± 2.5	PASS
		VN	50	2.46	0.003615	± 2.5	PASS
	HCH	VN	-30	-1.46	-0.002107	± 2.5	PASS
		VN	-20	1.97	0.002843	± 2.5	PASS
		VN	-10	1.59	0.002294	± 2.5	PASS
		VN	0	0.79	0.001140	± 2.5	PASS
		VN	10	-0.05	-0.000072	± 2.5	PASS
		VN	20	-0.51	-0.000736	± 2.5	PASS
		VN	30	3.48	0.005022	± 2.5	PASS
		VN	40	4	0.005772	± 2.5	PASS
		VN	50	1.24	0.001789	± 2.5	PASS
	16QAM	LCH	VN	-30	-1.52	-0.002275	± 2.5
VN			-20	4.75	0.007111	± 2.5	PASS
VN			-10	-0.63	-0.000943	± 2.5	PASS
VN			0	1.3	0.001946	± 2.5	PASS
VN			10	3.34	0.005000	± 2.5	PASS
VN			20	2.45	0.003668	± 2.5	PASS
VN			30	0.55	0.000823	± 2.5	PASS
VN			40	0.47	0.000704	± 2.5	PASS
VN			50	1.37	0.002051	± 2.5	PASS
MCH		VN	-30	4.8	0.007054	± 2.5	PASS
		VN	-20	3.15	0.004629	± 2.5	PASS

		VN	-10	4.28	0.006289	± 2.5	PASS
		VN	0	-1.22	-0.001793	± 2.5	PASS
		VN	10	1.54	0.002263	± 2.5	PASS
		VN	20	-0.8	-0.001176	± 2.5	PASS
		VN	30	-1.05	-0.001543	± 2.5	PASS
		VN	40	3.18	0.004673	± 2.5	PASS
		VN	50	3.08	0.004526	± 2.5	PASS
	HCH	VN	-30	0.79	0.001140	± 2.5	PASS
		VN	-20	0.01	0.000014	± 2.5	PASS
		VN	-10	3.59	0.005180	± 2.5	PASS
		VN	0	-1.62	-0.002338	± 2.5	PASS
		VN	10	-1.07	-0.001544	± 2.5	PASS
		VN	20	1.7	0.002453	± 2.5	PASS
		VN	30	1.49	0.002150	± 2.5	PASS
		VN	40	-0.1	-0.000144	± 2.5	PASS
		VN	50	1.32	0.001905	± 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	1.86	0.002774	± 2.5	PASS
		VN	TN	-1.58	-0.002356	± 2.5	PASS
		VH	TN	2.21	0.003296	± 2.5	PASS
	MCH	VL	TN	0.21	0.000309	± 2.5	PASS
		VN	TN	2.48	0.003644	± 2.5	PASS
		VH	TN	2.45	0.003600	± 2.5	PASS
	HCH	VL	TN	0.63	0.000912	± 2.5	PASS
		VN	TN	0.73	0.001057	± 2.5	PASS
		VH	TN	0.1	0.000145	± 2.5	PASS
16QAM	LCH	VL	TN	3.47	0.005175	± 2.5	PASS
		VN	TN	-0.65	-0.000969	± 2.5	PASS
		VH	TN	-1.2	-0.001790	± 2.5	PASS
	MCH	VL	TN	3.26	0.004791	± 2.5	PASS
		VN	TN	3.12	0.004585	± 2.5	PASS
		VH	TN	1.52	0.002234	± 2.5	PASS
	HCH	VL	TN	2.46	0.003563	± 2.5	PASS
		VN	TN	1.5	0.002172	± 2.5	PASS
		VH	TN	-1.18	-0.001709	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2	0.002983	± 2.5	PASS
		VN	-20	2.14	0.003192	± 2.5	PASS
		VN	-10	1.68	0.002506	± 2.5	PASS
		VN	0	2.1	0.003132	± 2.5	PASS
		VN	10	-1.25	-0.001864	± 2.5	PASS
		VN	20	-0.75	-0.001119	± 2.5	PASS



		VN	30	4.97	0.007412	± 2.5	PASS	
		VN	40	2.07	0.003087	± 2.5	PASS	
		VN	50	-0.27	-0.000403	± 2.5	PASS	
	MCH	VN	-30	2.94	0.004320	± 2.5	PASS	
		VN	-20	4.98	0.007318	± 2.5	PASS	
		VN	-10	1.29	0.001896	± 2.5	PASS	
		VN	0	-0.65	-0.000955	± 2.5	PASS	
		VN	10	4.72	0.006936	± 2.5	PASS	
		VN	20	-0.54	-0.000794	± 2.5	PASS	
		VN	30	0.2	0.000294	± 2.5	PASS	
		VN	40	0.84	0.001234	± 2.5	PASS	
		VN	50	2.93	0.004306	± 2.5	PASS	
		HCH	VN	-30	3.08	0.004461	± 2.5	PASS
			VN	-20	2.2	0.003186	± 2.5	PASS
			VN	-10	2.46	0.003563	± 2.5	PASS
	VN		0	2.2	0.003186	± 2.5	PASS	
	VN		10	4.66	0.006749	± 2.5	PASS	
	VN		20	0.01	0.000014	± 2.5	PASS	
VN	30		-0.57	-0.000825	± 2.5	PASS		
VN	40		4.78	0.006923	± 2.5	PASS		
VN	50	0.64	0.000927	± 2.5	PASS			
16QAM	LCH	VN	-30	2.91	0.004340	± 2.5	PASS	
		VN	-20	0.61	0.000910	± 2.5	PASS	
		VN	-10	3.32	0.004952	± 2.5	PASS	
		VN	0	2.08	0.003102	± 2.5	PASS	
		VN	10	1.94	0.002893	± 2.5	PASS	
		VN	20	-1.29	-0.001924	± 2.5	PASS	
		VN	30	3.68	0.005488	± 2.5	PASS	
		VN	40	-1.49	-0.002222	± 2.5	PASS	
		VN	50	-0.44	-0.000656	± 2.5	PASS	
	MCH	VN	-30	2.43	0.003571	± 2.5	PASS	
		VN	-20	4.77	0.007010	± 2.5	PASS	
		VN	-10	-0.49	-0.000720	± 2.5	PASS	
		VN	0	4.06	0.005966	± 2.5	PASS	
		VN	10	4.06	0.005966	± 2.5	PASS	
		VN	20	1.09	0.001602	± 2.5	PASS	
		VN	30	1.54	0.002263	± 2.5	PASS	
		VN	40	-0.2	-0.000294	± 2.5	PASS	
		VN	50	-0.69	-0.001014	± 2.5	PASS	
	HCH	VN	-30	4.71	0.006821	± 2.5	PASS	
		VN	-20	0.47	0.000681	± 2.5	PASS	
		VN	-10	1.1	0.001593	± 2.5	PASS	
		VN	0	-1.96	-0.002839	± 2.5	PASS	
		VN	10	-0.33	-0.000478	± 2.5	PASS	
		VN	20	3.13	0.004533	± 2.5	PASS	
		VN	30	0.1	0.000145	± 2.5	PASS	
		VN	40	3.95	0.005720	± 2.5	PASS	
		VN	50	-1.69	-0.002448	± 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	3.47	0.005156	± 2.5	PASS
		VN	TN	-0.9	-0.001337	± 2.5	PASS
		VH	TN	2.04	0.003031	± 2.5	PASS
	MCH	VL	TN	2.11	0.003089	± 2.5	PASS
		VN	TN	4.39	0.006428	± 2.5	PASS
		VH	TN	-0.62	-0.000908	± 2.5	PASS
	HCH	VL	TN	-1.4	-0.002035	± 2.5	PASS
		VN	TN	4.65	0.006759	± 2.5	PASS
		VH	TN	4.25	0.006177	± 2.5	PASS
16QAM	LCH	VL	TN	-1.23	-0.001828	± 2.5	PASS
		VN	TN	-0.39	-0.000579	± 2.5	PASS
		VH	TN	4.33	0.006434	± 2.5	PASS
	MCH	VL	TN	4.55	0.006662	± 2.5	PASS
		VN	TN	3.3	0.004832	± 2.5	PASS
		VH	TN	-1.58	-0.002313	± 2.5	PASS
	HCH	VL	TN	-1.79	-0.002602	± 2.5	PASS
		VN	TN	-1.29	-0.001875	± 2.5	PASS
		VH	TN	2.28	0.003314	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.74	-0.002585	± 2.5	PASS
		VN	-20	1.19	0.001768	± 2.5	PASS
		VN	-10	2.3	0.003418	± 2.5	PASS
		VN	0	0.51	0.000758	± 2.5	PASS
		VN	10	-1.35	-0.002006	± 2.5	PASS
		VN	20	-1.82	-0.002704	± 2.5	PASS
		VN	30	-1.29	-0.001917	± 2.5	PASS
		VN	40	4.59	0.006820	± 2.5	PASS
	MCH	VN	50	1.55	0.002303	± 2.5	PASS
		VN	-30	-0.64	-0.000937	± 2.5	PASS
		VN	-20	0.03	0.000044	± 2.5	PASS
		VN	-10	-0.44	-0.000644	± 2.5	PASS
		VN	0	4.48	0.006559	± 2.5	PASS
		VN	10	1.09	0.001596	± 2.5	PASS
		VN	20	0.36	0.000527	± 2.5	PASS
		VN	30	2.83	0.004143	± 2.5	PASS
	HCH	VN	40	1.93	0.002826	± 2.5	PASS
		VN	50	3.59	0.005256	± 2.5	PASS
		VN	-30	-0.42	-0.000610	± 2.5	PASS
		VN	-20	0.93	0.001352	± 2.5	PASS
		VN	-10	-1.98	-0.002878	± 2.5	PASS
		VN	0	2.79	0.004055	± 2.5	PASS

		VN	10	0.34	0.000494	± 2.5	PASS	
		VN	20	3.87	0.005625	± 2.5	PASS	
		VN	30	-1.62	-0.002355	± 2.5	PASS	
		VN	40	2.24	0.003256	± 2.5	PASS	
		VN	50	-0.89	-0.001294	± 2.5	PASS	
16QAM	LCH	VN	-30	1.94	0.002883	± 2.5	PASS	
		VN	-20	-0.05	-0.000074	± 2.5	PASS	
		VN	-10	0.22	0.000327	± 2.5	PASS	
		VN	0	-1.96	-0.002912	± 2.5	PASS	
		VN	10	-1.07	-0.001590	± 2.5	PASS	
		VN	20	-1.73	-0.002571	± 2.5	PASS	
		VN	30	-1.06	-0.001575	± 2.5	PASS	
		VN	40	2.52	0.003744	± 2.5	PASS	
		VN	50	2.06	0.003061	± 2.5	PASS	
		MCH	VN	-30	1.15	0.001684	± 2.5	PASS
	VN		-20	0.65	0.000952	± 2.5	PASS	
	VN		-10	4.34	0.006354	± 2.5	PASS	
	VN		0	0.77	0.001127	± 2.5	PASS	
	VN		10	4.37	0.006398	± 2.5	PASS	
	VN		20	3.08	0.004510	± 2.5	PASS	
	VN		30	0.38	0.000556	± 2.5	PASS	
	VN		40	3.24	0.004744	± 2.5	PASS	
	VN		50	4.24	0.006208	± 2.5	PASS	
	HCH		VN	-30	2.11	0.003067	± 2.5	PASS
		VN	-20	4.07	0.005916	± 2.5	PASS	
		VN	-10	1.18	0.001715	± 2.5	PASS	
		VN	0	-1.59	-0.002311	± 2.5	PASS	
		VN	10	-0.9	-0.001308	± 2.5	PASS	
		VN	20	0.23	0.000334	± 2.5	PASS	
		VN	30	-1.77	-0.002573	± 2.5	PASS	
		VN	40	2.26	0.003285	± 2.5	PASS	
			VN	50	2.15	0.003125	± 2.5	PASS

### APPENDIX I: TEST DATA FOR PEAK TO AVERAGE RATIO

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd2	QPSK	1.4MHz	Low	RB1#0	4.58	<=13	Pass
	QPSK	1.4MHz	Middle	RB1#0	5.65	<=13	Pass
	QPSK	1.4MHz	High	RB1#0	4.46	<=13	Pass
	16-QAM	1.4MHz	Low	RB1#0	5.02	<=13	Pass
	16-QAM	1.4MHz	Middle	RB1#0	4.75	<=13	Pass
	16-QAM	1.4MHz	High	RB1#0	4.34	<=13	Pass
LTE Babd2	QPSK	3MHz	Low	RB1#0	5.98	<=13	Pass
	QPSK	3MHz	Middle	RB1#0	6.74	<=13	Pass
	QPSK	3MHz	High	RB1#0	6.33	<=13	Pass
	16-QAM	3MHz	Low	RB1#0	5.72	<=13	Pass
	16-QAM	3MHz	Middle	RB1#0	6.49	<=13	Pass
	16-QAM	3MHz	High	RB1#0	4.18	<=13	Pass
LTE Babd2	QPSK	5MHz	Low	RB1#0	6.89	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	5.59	<=13	Pass
	QPSK	5MHz	High	RB1#0	6.97	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	4.77	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	6.3	<=13	Pass
	16-QAM	5MHz	High	RB1#0	6.64	<=13	Pass
LTE Babd2	QPSK	10MHz	Low	RB1#0	5.84	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	4.76	<=13	Pass
	QPSK	10MHz	High	RB1#0	5.16	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	4.59	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	6.55	<=13	Pass
	16-QAM	10MHz	High	RB1#0	6.98	<=13	Pass
LTE Babd2	QPSK	15MHz	Low	RB1#0	6.03	<=13	Pass
	QPSK	15MHz	Middle	RB1#0	5.16	<=13	Pass
	QPSK	15MHz	High	RB1#0	5.29	<=13	Pass
	16-QAM	15MHz	Low	RB1#0	4.41	<=13	Pass
	16-QAM	15MHz	Middle	RB1#0	5.55	<=13	Pass
	16-QAM	15MHz	High	RB1#0	5.11	<=13	Pass
LTE Babd2	QPSK	20MHz	Low	RB1#0	5.78	<=13	Pass
	QPSK	20MHz	Middle	RB1#0	5.63	<=13	Pass
	QPSK	20MHz	High	RB1#0	4.96	<=13	Pass
	16-QAM	20MHz	Low	RB1#0	4.61	<=13	Pass
	16-QAM	20MHz	Middle	RB1#0	4.76	<=13	Pass
	16-QAM	20MHz	High	RB1#0	6.82	<=13	Pass

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd4	QPSK	1.4MHz	Low	RB1#0	4.61	<=13	Pass
	QPSK	1.4MHz	Middle	RB1#0	5.45	<=13	Pass
	QPSK	1.4MHz	High	RB1#0	4.14	<=13	Pass
	16-QAM	1.4MHz	Low	RB1#0	4.63	<=13	Pass
	16-QAM	1.4MHz	Middle	RB1#0	5.14	<=13	Pass
	16-QAM	1.4MHz	High	RB1#0	5.72	<=13	Pass
LTE Babd4	QPSK	3MHz	Low	RB1#0	4.54	<=13	Pass
	QPSK	3MHz	Middle	RB1#0	6.15	<=13	Pass
	QPSK	3MHz	High	RB1#0	5.02	<=13	Pass
	16-QAM	3MHz	Low	RB1#0	4.90	<=13	Pass
	16-QAM	3MHz	Middle	RB1#0	5.30	<=13	Pass
	16-QAM	3MHz	High	RB1#0	6.41	<=13	Pass
LTE Babd4	QPSK	5MHz	Low	RB1#0	4.45	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	6.06	<=13	Pass
	QPSK	5MHz	High	RB1#0	5.05	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	4.65	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	5.68	<=13	Pass
	16-QAM	5MHz	High	RB1#0	4.84	<=13	Pass
LTE Babd4	QPSK	10MHz	Low	RB1#0	6.79	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	6.99	<=13	Pass
	QPSK	10MHz	High	RB1#0	6.31	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	4.84	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	4.16	<=13	Pass
	16-QAM	10MHz	High	RB1#0	6.98	<=13	Pass
LTE Babd4	QPSK	15MHz	Low	RB1#0	4.77	<=13	Pass
	QPSK	15MHz	Middle	RB1#0	6.55	<=13	Pass
	QPSK	15MHz	High	RB1#0	5.01	<=13	Pass
	16-QAM	15MHz	Low	RB1#0	5.43	<=13	Pass
	16-QAM	15MHz	Middle	RB1#0	5.21	<=13	Pass
	16-QAM	15MHz	High	RB1#0	5.95	<=13	Pass
LTE Babd4	QPSK	20MHz	Low	RB1#0	4.87	<=13	Pass
	QPSK	20MHz	Middle	RB1#0	6.10	<=13	Pass
	QPSK	20MHz	High	RB1#0	6.82	<=13	Pass
	16-QAM	20MHz	Low	RB1#0	4.92	<=13	Pass
	16-QAM	20MHz	Middle	RB1#0	5.42	<=13	Pass
	16-QAM	20MHz	High	RB1#0	5.34	<=13	Pass

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd5	QPSK	1.4MHz	Low	RB1#0	4.61	<=13	Pass
	QPSK	1.4MHz	Middle	RB1#0	5.45	<=13	Pass
	QPSK	1.4MHz	High	RB1#0	4.54	<=13	Pass
	16-QAM	1.4MHz	Low	RB1#0	4.42	<=13	Pass
	16-QAM	1.4MHz	Middle	RB1#0	5.29	<=13	Pass
	16-QAM	1.4MHz	High	RB1#0	4.47	<=13	Pass
LTE Babd5	QPSK	3MHz	Low	RB1#0	6.71	<=13	Pass
	QPSK	3MHz	Middle	RB1#0	5.39	<=13	Pass
	QPSK	3MHz	High	RB1#0	5.90	<=13	Pass
	16-QAM	3MHz	Low	RB1#0	5.28	<=13	Pass
	16-QAM	3MHz	Middle	RB1#0	5.33	<=13	Pass
	16-QAM	3MHz	High	RB1#0	6.95	<=13	Pass
LTE Babd5	QPSK	5MHz	Low	RB1#0	6.05	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	4.32	<=13	Pass
	QPSK	5MHz	High	RB1#0	4.84	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	4.37	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	5.23	<=13	Pass
	16-QAM	5MHz	High	RB1#0	6.77	<=13	Pass
LTE Babd5	QPSK	10MHz	Low	RB1#0	4.71	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	6.72	<=13	Pass
	QPSK	10MHz	High	RB1#0	6.07	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	4.02	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	6.96	<=13	Pass
	16-QAM	10MHz	High	RB1#0	4.45	<=13	Pass

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd12	QPSK	1.4MHz	Low	RB1#0	4.46	<=13	Pass
	QPSK	1.4MHz	Middle	RB1#0	5.45	<=13	Pass
	QPSK	1.4MHz	High	RB1#0	4.81	<=13	Pass
	16-QAM	1.4MHz	Low	RB1#0	5.43	<=13	Pass
	16-QAM	1.4MHz	Middle	RB1#0	4.41	<=13	Pass
	16-QAM	1.4MHz	High	RB1#0	4.27	<=13	Pass
LTE Babd12	QPSK	3MHz	Low	RB1#0	5.46	<=13	Pass
	QPSK	3MHz	Middle	RB1#0	5.95	<=13	Pass
	QPSK	3MHz	High	RB1#0	6.15	<=13	Pass
	16-QAM	3MHz	Low	RB1#0	4.46	<=13	Pass
	16-QAM	3MHz	Middle	RB1#0	4.54	<=13	Pass
	16-QAM	3MHz	High	RB1#0	4.23	<=13	Pass
LTE Babd12	QPSK	5MHz	Low	RB1#0	6.46	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	5.25	<=13	Pass
	QPSK	5MHz	High	RB1#0	5.65	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	5.14	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	4.89	<=13	Pass
	16-QAM	5MHz	High	RB1#0	6.19	<=13	Pass
LTE Babd12	QPSK	10MHz	Low	RB1#0	5.32	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	5.61	<=13	Pass
	QPSK	10MHz	High	RB1#0	6.69	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	6.77	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	6.53	<=13	Pass
	16-QAM	10MHz	High	RB1#0	5.84	<=13	Pass

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd13	QPSK	5MHz	Low	RB1#0	4.49	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	5.30	<=13	Pass
	QPSK	5MHz	High	RB1#0	4.22	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	6.15	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	6.23	<=13	Pass
	16-QAM	5MHz	High	RB1#0	4.64	<=13	Pass
LTE Babd13	QPSK	10MHz	Low	RB1#0	5.00	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	6.21	<=13	Pass
	QPSK	10MHz	High	RB1#0	5.15	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	5.01	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	5.74	<=13	Pass
	16-QAM	10MHz	High	RB1#0	6.24	<=13	Pass

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd14	QPSK	5MHz	Low	RB1#0	4.32	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	5.30	<=13	Pass
	QPSK	5MHz	High	RB1#0	4.48	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	4.22	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	5.15	<=13	Pass
	16-QAM	5MHz	High	RB1#0	4.35	<=13	Pass
LTE Babd14	QPSK	10MHz	Low	RB1#0	6.95	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	5.17	<=13	Pass
	QPSK	10MHz	High	RB1#0	5.05	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	4.22	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	5.85	<=13	Pass
	16-QAM	10MHz	High	RB1#0	6.55	<=13	Pass



Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd66	QPSK	1.4MHz	Low	RB1#0	4.70	<=13	Pass
	QPSK	1.4MHz	Middle	RB1#0	5.57	<=13	Pass
	QPSK	1.4MHz	High	RB1#0	5.82	<=13	Pass
	16-QAM	1.4MHz	Low	RB1#0	5.83	<=13	Pass
	16-QAM	1.4MHz	Middle	RB1#0	5.37	<=13	Pass
	16-QAM	1.4MHz	High	RB1#0	5.72	<=13	Pass
LTE Babd66	QPSK	3MHz	Low	RB1#0	4.32	<=13	Pass
	QPSK	3MHz	Middle	RB1#0	6.57	<=13	Pass
	QPSK	3MHz	High	RB1#0	5.27	<=13	Pass
	16-QAM	3MHz	Low	RB1#0	6.12	<=13	Pass
	16-QAM	3MHz	Middle	RB1#0	4.72	<=13	Pass
	16-QAM	3MHz	High	RB1#0	6.59	<=13	Pass
LTE Babd66	QPSK	5MHz	Low	RB1#0	4.33	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	4.79	<=13	Pass
	QPSK	5MHz	High	RB1#0	5.82	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	5.07	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	4.38	<=13	Pass
	16-QAM	5MHz	High	RB1#0	4.04	<=13	Pass
LTE Babd66	QPSK	10MHz	Low	RB1#0	5.89	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	5.62	<=13	Pass
	QPSK	10MHz	High	RB1#0	5.81	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	6.74	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	4.26	<=13	Pass
	16-QAM	10MHz	High	RB1#0	6.17	<=13	Pass
LTE Babd66	QPSK	15MHz	Low	RB1#0	4.03	<=13	Pass
	QPSK	15MHz	Middle	RB1#0	6.91	<=13	Pass
	QPSK	15MHz	High	RB1#0	6.92	<=13	Pass
	16-QAM	15MHz	Low	RB1#0	6.02	<=13	Pass
	16-QAM	15MHz	Middle	RB1#0	4.84	<=13	Pass
	16-QAM	15MHz	High	RB1#0	6.74	<=13	Pass
LTE Babd66	QPSK	20MHz	Low	RB1#0	5.02	<=13	Pass
	QPSK	20MHz	Middle	RB1#0	5.12	<=13	Pass
	QPSK	20MHz	High	RB1#0	5.77	<=13	Pass
	16-QAM	20MHz	Low	RB1#0	5.51	<=13	Pass
	16-QAM	20MHz	Middle	RB1#0	5.26	<=13	Pass
	16-QAM	20MHz	High	RB1#0	6.85	<=13	Pass

Operation Mode	Modulation	Band Width	Test Channel	Test RB	P. A .R (dB)	Limit (dB)	Verdict
LTE Babd71	QPSK	5MHz	Low	RB1#0	4.49	<=13	Pass
	QPSK	5MHz	Middle	RB1#0	5.51	<=13	Pass
	QPSK	5MHz	High	RB1#0	4.17	<=13	Pass
	16-QAM	5MHz	Low	RB1#0	6.78	<=13	Pass
	16-QAM	5MHz	Middle	RB1#0	5.46	<=13	Pass
	16-QAM	5MHz	High	RB1#0	6.82	<=13	Pass
LTE Babd71	QPSK	10MHz	Low	RB1#0	4.77	<=13	Pass
	QPSK	10MHz	Middle	RB1#0	6.64	<=13	Pass
	QPSK	10MHz	High	RB1#0	6.66	<=13	Pass
	16-QAM	10MHz	Low	RB1#0	5.31	<=13	Pass
	16-QAM	10MHz	Middle	RB1#0	5.61	<=13	Pass
	16-QAM	10MHz	High	RB1#0	5.07	<=13	Pass
LTE Babd71	QPSK	15MHz	Low	RB1#0	6.88	<=13	Pass
	QPSK	15MHz	Middle	RB1#0	5.54	<=13	Pass
	QPSK	15MHz	High	RB1#0	6.68	<=13	Pass
	16-QAM	15MHz	Low	RB1#0	5.55	<=13	Pass
	16-QAM	15MHz	Middle	RB1#0	6.05	<=13	Pass
	16-QAM	15MHz	High	RB1#0	4.68	<=13	Pass
LTE Babd71	QPSK	20MHz	Low	RB1#0	4.78	<=13	Pass
	QPSK	20MHz	Middle	RB1#0	5.17	<=13	Pass
	QPSK	20MHz	High	RB1#0	5.79	<=13	Pass
	16-QAM	20MHz	Low	RB1#0	5.69	<=13	Pass
	16-QAM	20MHz	Middle	RB1#0	6.12	<=13	Pass
	16-QAM	20MHz	High	RB1#0	4.61	<=13	Pass

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

**END OF REPORT**