

LTE Band 4

Test Data:

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	-1.72	-0.001003	± 2.5	PASS
		VN	TN	-7.45	-0.004344	± 2.5	PASS
		VH	TN	-6.85	-0.003994	± 2.5	PASS
	MCH	VL	TN	-3.71	-0.002141	± 2.5	PASS
		VN	TN	-4.87	-0.002811	± 2.5	PASS
		VH	TN	-4.15	-0.002395	± 2.5	PASS
	HCH	VL	TN	-8.34	-0.004766	± 2.5	PASS
		VN	TN	-3.92	-0.002240	± 2.5	PASS
		VH	TN	-11.86	-0.006777	± 2.5	PASS
16QAM	LCH	VL	TN	-8.38	-0.004886	± 2.5	PASS
		VN	TN	-9.93	-0.005790	± 2.5	PASS
		VH	TN	-2.81	-0.001638	± 2.5	PASS
	MCH	VL	TN	-9.66	-0.005576	± 2.5	PASS
		VN	TN	-12.08	-0.006973	± 2.5	PASS
		VH	TN	-12.62	-0.007284	± 2.5	PASS
	HCH	VL	TN	-9.22	-0.005269	± 2.5	PASS
		VN	TN	-8.17	-0.004669	± 2.5	PASS
		VH	TN	-11.22	-0.006411	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-8.59	-0.005009	± 2.5	PASS
		VN	-20	-3.73	-0.002175	± 2.5	PASS
		VN	-10	-6.66	-0.003883	± 2.5	PASS
		VN	0	-4.42	-0.002577	± 2.5	PASS
		VN	10	-11.04	-0.006437	± 2.5	PASS
		VN	20	-9.54	-0.005563	± 2.5	PASS
		VN	30	-7.56	-0.004408	± 2.5	PASS
		VN	40	-10.22	-0.005959	± 2.5	PASS
		VN	50	-9.47	-0.005522	± 2.5	PASS
	MCH	VN	-30	-4.58	-0.002644	± 2.5	PASS
		VN	-20	-7.24	-0.004179	± 2.5	PASS
		VN	-10	-12.71	-0.007336	± 2.5	PASS
		VN	0	-9.3	-0.005368	± 2.5	PASS
		VN	10	-2.69	-0.001553	± 2.5	PASS
		VN	20	-5.56	-0.003209	± 2.5	PASS
		VN	30	-9.74	-0.005622	± 2.5	PASS
		VN	40	-7.66	-0.004421	± 2.5	PASS
		VN	50	-6.95	-0.004012	± 2.5	PASS
	HCH	VN	-30	-12.59	-0.007194	± 2.5	PASS
VN		-20	-10.62	-0.006069	± 2.5	PASS	

		VN	-10	-4.61	-0.002634	± 2.5	PASS
		VN	0	-5.89	-0.003366	± 2.5	PASS
		VN	10	-8.38	-0.004789	± 2.5	PASS
		VN	20	-12.99	-0.007423	± 2.5	PASS
		VN	30	-7.61	-0.004349	± 2.5	PASS
		VN	40	-7.31	-0.004177	± 2.5	PASS
		VN	50	-6.2	-0.003543	± 2.5	PASS
16QAM	LCH	VN	-30	-11.76	-0.006857	± 2.5	PASS
		VN	-20	-9.78	-0.005703	± 2.5	PASS
		VN	-10	-8.13	-0.004741	± 2.5	PASS
		VN	0	-7.19	-0.004192	± 2.5	PASS
		VN	10	-5.6	-0.003265	± 2.5	PASS
		VN	20	-5.03	-0.002933	± 2.5	PASS
		VN	30	-12.16	-0.007090	± 2.5	PASS
		VN	40	-8.52	-0.004968	± 2.5	PASS
		VN	50	-5.92	-0.003452	± 2.5	PASS
	MCH	VN	-30	-8.17	-0.004716	± 2.5	PASS
		VN	-20	-4.52	-0.002609	± 2.5	PASS
		VN	-10	-9.63	-0.005558	± 2.5	PASS
		VN	0	-7.25	-0.004185	± 2.5	PASS
		VN	10	-5.74	-0.003313	± 2.5	PASS
		VN	20	-4.96	-0.002863	± 2.5	PASS
		VN	30	-5.49	-0.003169	± 2.5	PASS
		VN	40	-4.48	-0.002586	± 2.5	PASS
		VN	50	-8.36	-0.004825	± 2.5	PASS
	HCH	VN	-30	-3.13	-0.001789	± 2.5	PASS
		VN	-20	-9.34	-0.005337	± 2.5	PASS
		VN	-10	-5.03	-0.002874	± 2.5	PASS
		VN	0	-7.59	-0.004337	± 2.5	PASS
		VN	10	-5.06	-0.002891	± 2.5	PASS
		VN	20	-5.79	-0.003309	± 2.5	PASS
		VN	30	-4.62	-0.002640	± 2.5	PASS
		VN	40	-6.22	-0.003554	± 2.5	PASS
		VN	50	-5.89	-0.003366	± 2.5	PASS

LTE Band 5

Test Data:

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	-9.79	-0.011809	± 2.5	PASS
		VN	TN	-6.25	-0.007539	± 2.5	PASS
		VH	TN	-11.65	-0.014053	± 2.5	PASS
	MCH	VL	TN	-4.65	-0.005559	± 2.5	PASS
		VN	TN	-5.5	-0.006575	± 2.5	PASS
		VH	TN	-8.28	-0.009898	± 2.5	PASS
	HCH	VL	TN	-8.05	-0.009538	± 2.5	PASS
		VN	TN	-11.8	-0.013981	± 2.5	PASS
		VH	TN	-7.71	-0.009135	± 2.5	PASS
16QAM	LCH	VL	TN	-7.45	-0.008987	± 2.5	PASS
		VN	TN	-5.37	-0.006478	± 2.5	PASS
		VH	TN	-8.44	-0.010181	± 2.5	PASS
	MCH	VL	TN	-9.26	-0.011070	± 2.5	PASS
		VN	TN	-9.74	-0.011644	± 2.5	PASS
		VH	TN	-9.18	-0.010974	± 2.5	PASS
	HCH	VL	TN	-11.25	-0.013329	± 2.5	PASS
		VN	TN	-12.23	-0.014491	± 2.5	PASS
		VH	TN	-11.52	-0.013649	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-9.49	-0.011448	± 2.5	PASS
		VN	-20	-11.49	-0.013860	± 2.5	PASS
		VN	-10	-7.53	-0.009083	± 2.5	PASS
		VN	0	-6.46	-0.007793	± 2.5	PASS
		VN	10	-6.88	-0.008299	± 2.5	PASS
		VN	20	-8.96	-0.010808	± 2.5	PASS
		VN	30	-6.97	-0.008408	± 2.5	PASS
		VN	40	-10.71	-0.012919	± 2.5	PASS
		VN	50	-11.41	-0.013764	± 2.5	PASS
	MCH	VN	-30	-5.95	-0.007113	± 2.5	PASS
		VN	-20	-9.37	-0.011201	± 2.5	PASS
		VN	-10	-9.54	-0.011405	± 2.5	PASS
		VN	0	-7.69	-0.009193	± 2.5	PASS
		VN	10	-6.61	-0.007902	± 2.5	PASS
		VN	20	-7.99	-0.009552	± 2.5	PASS
		VN	30	-9.57	-0.011441	± 2.5	PASS
		VN	40	-5.28	-0.006312	± 2.5	PASS
		VN	50	-6.34	-0.007579	± 2.5	PASS
	HCH	VN	-30	-6.16	-0.007299	± 2.5	PASS
		VN	-20	-4.33	-0.005130	± 2.5	PASS

		VN	-10	-4.92	-0.005829	± 2.5	PASS
		VN	0	-11.09	-0.013140	± 2.5	PASS
		VN	10	-6.59	-0.007808	± 2.5	PASS
		VN	20	-7.75	-0.009182	± 2.5	PASS
		VN	30	-9.19	-0.010889	± 2.5	PASS
		VN	40	-8.48	-0.010047	± 2.5	PASS
		VN	50	-7.25	-0.008590	± 2.5	PASS
16QAM	LCH	VN	-30	-6.89	-0.008311	± 2.5	PASS
		VN	-20	-6.25	-0.007539	± 2.5	PASS
		VN	-10	-7.51	-0.009059	± 2.5	PASS
		VN	0	-8.6	-0.010374	± 2.5	PASS
		VN	10	-7	-0.008444	± 2.5	PASS
		VN	20	-8.81	-0.010627	± 2.5	PASS
		VN	30	-8.61	-0.010386	± 2.5	PASS
		VN	40	-7.09	-0.008552	± 2.5	PASS
		VN	50	-7.84	-0.009457	± 2.5	PASS
	MCH	VN	-30	-2.58	-0.003084	± 2.5	PASS
		VN	-20	-7.03	-0.008404	± 2.5	PASS
		VN	-10	-13.53	-0.016175	± 2.5	PASS
		VN	0	-9.4	-0.011237	± 2.5	PASS
		VN	10	-10.71	-0.012803	± 2.5	PASS
		VN	20	-8.15	-0.009743	± 2.5	PASS
		VN	30	-7.87	-0.009408	± 2.5	PASS
		VN	40	-8.39	-0.010030	± 2.5	PASS
		VN	50	-9.33	-0.011154	± 2.5	PASS
	HCH	VN	-30	-13.39	-0.015865	± 2.5	PASS
		VN	-20	-10.95	-0.012974	± 2.5	PASS
		VN	-10	-9.95	-0.011789	± 2.5	PASS
		VN	0	-8.58	-0.010166	± 2.5	PASS
		VN	10	-4.89	-0.005794	± 2.5	PASS
		VN	20	-7.11	-0.008424	± 2.5	PASS
		VN	30	-4.82	-0.005711	± 2.5	PASS
		VN	40	-12.84	-0.015213	± 2.5	PASS
		VN	50	-13.47	-0.015960	± 2.5	PASS

LTE Band 12

Test Data:

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	-9.66	-0.013722	± 2.5	PASS
		VN	TN	-6.65	-0.009446	± 2.5	PASS
		VH	TN	-7.89	-0.011207	± 2.5	PASS
	MCH	VL	TN	-5.5	-0.007774	± 2.5	PASS
		VN	TN	-6.58	-0.009300	± 2.5	PASS
		VH	TN	-6.91	-0.009767	± 2.5	PASS
	HCH	VL	TN	-9.71	-0.013657	± 2.5	PASS
		VN	TN	-9.74	-0.013699	± 2.5	PASS
		VH	TN	-11.92	-0.016765	± 2.5	PASS
16QAM	LCH	VL	TN	-4.97	-0.007060	± 2.5	PASS
		VN	TN	-4.9	-0.006960	± 2.5	PASS
		VH	TN	-5.42	-0.007699	± 2.5	PASS
	MCH	VL	TN	-8.81	-0.012452	± 2.5	PASS
		VN	TN	-10.02	-0.014163	± 2.5	PASS
		VH	TN	-5.54	-0.007830	± 2.5	PASS
	HCH	VL	TN	-7.65	-0.010759	± 2.5	PASS
		VN	TN	-6.63	-0.009325	± 2.5	PASS
		VH	TN	-7.44	-0.010464	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-9.69	-0.013764	± 2.5	PASS
		VN	-20	-11.25	-0.015980	± 2.5	PASS
		VN	-10	-7.86	-0.011165	± 2.5	PASS
		VN	0	-7.65	-0.010866	± 2.5	PASS
		VN	10	-7.65	-0.010866	± 2.5	PASS
		VN	20	-9.67	-0.013736	± 2.5	PASS
		VN	30	-10.65	-0.015128	± 2.5	PASS
		VN	40	-8.32	-0.011818	± 2.5	PASS
		VN	50	-5.99	-0.008509	± 2.5	PASS
	MCH	VN	-30	-9.15	-0.012933	± 2.5	PASS
		VN	-20	-7.89	-0.011152	± 2.5	PASS
		VN	-10	-9.05	-0.012792	± 2.5	PASS
		VN	0	-8.71	-0.012311	± 2.5	PASS
		VN	10	-8.35	-0.011802	± 2.5	PASS
		VN	20	-12.19	-0.017230	± 2.5	PASS
		VN	30	-6.77	-0.009569	± 2.5	PASS
		VN	40	-10.97	-0.015505	± 2.5	PASS
		VN	50	-11.09	-0.015675	± 2.5	PASS
	HCH	VN	-30	-4.78	-0.006723	± 2.5	PASS
		VN	-20	-8.96	-0.012602	± 2.5	PASS

		VN	-10	-8.3	-0.011674	± 2.5	PASS
		VN	0	-10.3	-0.014487	± 2.5	PASS
		VN	10	-10.92	-0.015359	± 2.5	PASS
		VN	20	-10.85	-0.015260	± 2.5	PASS
		VN	30	-11.21	-0.015767	± 2.5	PASS
		VN	40	-5.23	-0.007356	± 2.5	PASS
		VN	50	-9.59	-0.013488	± 2.5	PASS
16QAM	LCH	VN	-30	-4.44	-0.006307	± 2.5	PASS
		VN	-20	-5.55	-0.007884	± 2.5	PASS
		VN	-10	-6.21	-0.008821	± 2.5	PASS
		VN	0	-7.72	-0.010966	± 2.5	PASS
		VN	10	-6.24	-0.008864	± 2.5	PASS
		VN	20	-3.22	-0.004574	± 2.5	PASS
		VN	30	-4.83	-0.006861	± 2.5	PASS
		VN	40	-5.44	-0.007727	± 2.5	PASS
		VN	50	-6.13	-0.008707	± 2.5	PASS
	MCH	VN	-30	-10.04	-0.014191	± 2.5	PASS
		VN	-20	-8.39	-0.011859	± 2.5	PASS
		VN	-10	-5.39	-0.007618	± 2.5	PASS
		VN	0	-5.65	-0.007986	± 2.5	PASS
		VN	10	-6.76	-0.009555	± 2.5	PASS
		VN	20	-12.21	-0.017258	± 2.5	PASS
		VN	30	-8.21	-0.011604	± 2.5	PASS
		VN	40	-10.34	-0.014615	± 2.5	PASS
		VN	50	-10.16	-0.014360	± 2.5	PASS
	HCH	VN	-30	-7.71	-0.010844	± 2.5	PASS
		VN	-20	-4.58	-0.006442	± 2.5	PASS
		VN	-10	-3.73	-0.005246	± 2.5	PASS
		VN	0	-4.99	-0.007018	± 2.5	PASS
		VN	10	-7.82	-0.010999	± 2.5	PASS
		VN	20	-8.58	-0.012068	± 2.5	PASS
		VN	30	-12.38	-0.017412	± 2.5	PASS
		VN	40	-12.53	-0.017623	± 2.5	PASS
		VN	50	-11.87	-0.016695	± 2.5	PASS

The End