

LTE band5 Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-5.60	-0.006790	± 2.5	PASS
		VN	TN	-5.40	-0.006548	± 2.5	PASS
		VH	TN	-4.20	-0.005093	± 2.5	PASS
	MCH	VL	TN	-0.90	-0.001076	± 2.5	PASS
		VN	TN	-2.80	-0.003347	± 2.5	PASS
		VH	TN	-5.10	-0.006097	± 2.5	PASS
	HCH	VL	TN	-1.50	-0.001768	± 2.5	PASS
		VN	TN	-0.90	-0.001061	± 2.5	PASS
		VH	TN	-1.00	-0.001179	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.20	0.001455	± 2.5	PASS
		VN	-20	1.40	0.001698	± 2.5	PASS
		VN	-10	-6.70	-0.008124	± 2.5	PASS
		VN	0	-3.80	-0.004608	± 2.5	PASS
		VN	10	1.00	0.001213	± 2.5	PASS
		VN	20	-5.90	-0.007154	± 2.5	PASS
		VN	30	-2.70	-0.003274	± 2.5	PASS
		VN	40	1.00	0.001213	± 2.5	PASS
		VN	50	0.70	0.000849	± 2.5	PASS
	MCH	VN	-30	-0.40	-0.000478	± 2.5	PASS
		VN	-20	-2.10	-0.002510	± 2.5	PASS
		VN	-10	0.70	0.000837	± 2.5	PASS
		VN	0	0.20	0.000239	± 2.5	PASS
		VN	10	1.00	0.001195	± 2.5	PASS
		VN	20	1.60	0.001913	± 2.5	PASS
		VN	30	-1.70	-0.002032	± 2.5	PASS
		VN	40	-3.80	-0.004543	± 2.5	PASS
		VN	50	-7.00	-0.008368	± 2.5	PASS
	HCH	VN	-30	-0.10	-0.000118	± 2.5	PASS
		VN	-20	-5.20	-0.006130	± 2.5	PASS
		VN	-10	-8.20	-0.009666	± 2.5	PASS
		VN	0	-1.60	-0.001886	± 2.5	PASS
		VN	10	-5.70	-0.006719	± 2.5	PASS
		VN	20	-0.60	-0.000707	± 2.5	PASS
		VN	30	-4.30	-0.005069	± 2.5	PASS
		VN	40	-5.50	-0.006484	± 2.5	PASS
		VN	50	0.70	0.000825	± 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	-8.30	-0.010055	± 2.5	PASS
		VN	TN	-7.20	-0.008722	± 2.5	PASS
		VH	TN	-0.40	-0.000485	± 2.5	PASS
	MCH	VL	TN	-2.10	-0.002510	± 2.5	PASS
		VN	TN	-4.80	-0.005738	± 2.5	PASS
		VH	TN	-5.10	-0.006097	± 2.5	PASS
	HCH	VL	TN	-6.70	-0.007906	± 2.5	PASS
		VN	TN	-6.60	-0.007788	± 2.5	PASS
		VH	TN	-1.00	-0.001180	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-5.90	-0.007147	± 2.5	PASS
		VN	-20	-2.70	-0.003271	± 2.5	PASS
		VN	-10	-4.00	-0.004846	± 2.5	PASS
		VN	0	-1.60	-0.001938	± 2.5	PASS
		VN	10	-7.70	-0.009328	± 2.5	PASS
		VN	20	-3.30	-0.003998	± 2.5	PASS
		VN	30	0.90	0.001090	± 2.5	PASS
		VN	40	-3.50	-0.004240	± 2.5	PASS
		VN	50	0.90	0.001090	± 2.5	PASS
	MCH	VN	-30	0.90	0.001076	± 2.5	PASS
		VN	-20	-1.80	-0.002152	± 2.5	PASS
		VN	-10	-2.60	-0.003108	± 2.5	PASS
		VN	0	-6.50	-0.007770	± 2.5	PASS
		VN	10	-0.50	-0.000598	± 2.5	PASS
		VN	20	-6.80	-0.008129	± 2.5	PASS
		VN	30	-4.20	-0.005021	± 2.5	PASS
		VN	40	-1.30	-0.001554	± 2.5	PASS
		VN	50	-4.20	-0.005021	± 2.5	PASS
	HCH	VN	-30	-7.40	-0.008732	± 2.5	PASS
		VN	-20	-6.30	-0.007434	± 2.5	PASS
		VN	-10	-6.10	-0.007198	± 2.5	PASS
		VN	0	1.30	0.001534	± 2.5	PASS
		VN	10	-5.50	-0.006490	± 2.5	PASS
		VN	20	-6.80	-0.008024	± 2.5	PASS
		VN	30	-4.50	-0.005310	± 2.5	PASS
		VN	40	-3.20	-0.003776	± 2.5	PASS
		VN	50	-4.50	-0.005310	± 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	-5.30	-0.006413	± 2.5	PASS
		VN	TN	-0.60	-0.000726	± 2.5	PASS
		VH	TN	-4.50	-0.005445	± 2.5	PASS
	MCH	VL	TN	-3.20	-0.003825	± 2.5	PASS
		VN	TN	-4.30	-0.005140	± 2.5	PASS
		VH	TN	-5.90	-0.007053	± 2.5	PASS
	HCH	VL	TN	0.20	0.000236	± 2.5	PASS
		VN	TN	-3.60	-0.004253	± 2.5	PASS
		VH	TN	-2.10	-0.002481	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.30	-0.002783	± 2.5	PASS
		VN	-20	-2.10	-0.002541	± 2.5	PASS
		VN	-10	-1.30	-0.001573	± 2.5	PASS
		VN	0	-3.30	-0.003993	± 2.5	PASS
		VN	10	-1.50	-0.001815	± 2.5	PASS
		VN	20	-3.70	-0.004477	± 2.5	PASS
		VN	30	3.10	0.003751	± 2.5	PASS
		VN	40	-0.50	-0.000605	± 2.5	PASS
		VN	50	-5.70	-0.006897	± 2.5	PASS
	MCH	VN	-30	-2.00	-0.002391	± 2.5	PASS
		VN	-20	0.10	0.000120	± 2.5	PASS
		VN	-10	-5.10	-0.006097	± 2.5	PASS
		VN	0	-7.90	-0.009444	± 2.5	PASS
		VN	10	-6.30	-0.007531	± 2.5	PASS
		VN	20	-2.50	-0.002989	± 2.5	PASS
		VN	30	-1.50	-0.001793	± 2.5	PASS
		VN	40	-1.10	-0.001315	± 2.5	PASS
		VN	50	-2.90	-0.003467	± 2.5	PASS
	HCH	VN	-30	-6.40	-0.007561	± 2.5	PASS
		VN	-20	-4.50	-0.005316	± 2.5	PASS
		VN	-10	-3.40	-0.004017	± 2.5	PASS
		VN	0	-2.20	-0.002599	± 2.5	PASS
		VN	10	-5.60	-0.006615	± 2.5	PASS
		VN	20	0.40	0.000473	± 2.5	PASS
		VN	30	-0.70	-0.000827	± 2.5	PASS
		VN	40	-1.50	-0.001772	± 2.5	PASS
		VN	50	-5.20	-0.006143	± 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	-3.70	-0.004463	± 2.5	PASS
		VN	TN	-5.70	-0.006876	± 2.5	PASS
		VH	TN	-5.90	-0.007117	± 2.5	PASS
	MCH	VL	TN	-3.60	-0.004304	± 2.5	PASS
		VN	TN	-7.60	-0.009085	± 2.5	PASS
		VH	TN	2.30	0.002750	± 2.5	PASS
	HCH	VL	TN	-3.10	-0.003673	± 2.5	PASS
		VN	TN	-5.80	-0.006872	± 2.5	PASS
		VH	TN	1.20	0.001422	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.70	-0.000844	± 2.5	PASS
		VN	-20	2.70	0.003257	± 2.5	PASS
		VN	-10	-0.40	-0.000483	± 2.5	PASS
		VN	0	-0.60	-0.000724	± 2.5	PASS
		VN	10	-3.60	-0.004343	± 2.5	PASS
		VN	20	-4.00	-0.004825	± 2.5	PASS
		VN	30	-6.20	-0.007479	± 2.5	PASS
		VN	40	-4.40	-0.005308	± 2.5	PASS
		VN	50	-3.30	-0.003981	± 2.5	PASS
	MCH	VN	-30	2.70	0.003228	± 2.5	PASS
		VN	-20	-3.40	-0.004065	± 2.5	PASS
		VN	-10	-4.50	-0.005380	± 2.5	PASS
		VN	0	-3.20	-0.003825	± 2.5	PASS
		VN	10	-1.10	-0.001315	± 2.5	PASS
		VN	20	-0.60	-0.000717	± 2.5	PASS
		VN	30	-5.80	-0.006934	± 2.5	PASS
		VN	40	-1.80	-0.002152	± 2.5	PASS
		VN	50	-5.30	-0.006336	± 2.5	PASS
	HCH	VN	-30	-2.30	-0.002725	± 2.5	PASS
		VN	-20	-1.10	-0.001303	± 2.5	PASS
		VN	-10	-7.00	-0.008294	± 2.5	PASS
		VN	0	-4.40	-0.005213	± 2.5	PASS
		VN	10	-2.50	-0.002962	± 2.5	PASS
		VN	20	-2.50	-0.002962	± 2.5	PASS
		VN	30	-1.90	-0.002251	± 2.5	PASS
		VN	40	-1.70	-0.002014	± 2.5	PASS
	VN	50	-5.40	-0.006398	± 2.5	PASS	

LTE band7 Test Result

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	8.90	0.003556	± 2.5	PASS
		VN	TN	-8.20	-0.003277	± 2.5	PASS
		VH	TN	11.90	0.004755	± 2.5	PASS
	MCH	VL	TN	5.80	0.002288	± 2.5	PASS
		VN	TN	5.90	0.002327	± 2.5	PASS
		VH	TN	-6.70	-0.002643	± 2.5	PASS
	HCH	VL	TN	-10.50	-0.004090	± 2.5	PASS
		VN	TN	-4.10	-0.001597	± 2.5	PASS
		VH	TN	8.10	0.003155	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-7.00	-0.002797	± 2.5	PASS
		VN	-20	10.30	0.004116	± 2.5	PASS
		VN	-10	-11.50	-0.004595	± 2.5	PASS
		VN	0	4.00	0.001598	± 2.5	PASS
		VN	10	-11.90	-0.004755	± 2.5	PASS
		VN	20	-9.10	-0.003636	± 2.5	PASS
		VN	30	-9.30	-0.003716	± 2.5	PASS
		VN	40	-6.00	-0.002398	± 2.5	PASS
		VN	50	-1.30	-0.000519	± 2.5	PASS
	MCH	VN	-30	-10.00	-0.003945	± 2.5	PASS
		VN	-20	5.00	0.001972	± 2.5	PASS
		VN	-10	4.10	0.001617	± 2.5	PASS
		VN	0	5.80	0.002288	± 2.5	PASS
		VN	10	4.90	0.001933	± 2.5	PASS
		VN	20	-15.50	-0.006114	± 2.5	PASS
		VN	30	2.10	0.000828	± 2.5	PASS
		VN	40	10.20	0.004024	± 2.5	PASS
		VN	50	-1.30	-0.000513	± 2.5	PASS
	HCH	VN	-30	10.20	0.003973	± 2.5	PASS
		VN	-20	6.10	0.002376	± 2.5	PASS
		VN	-10	5.40	0.002103	± 2.5	PASS
		VN	0	-11.90	-0.004635	± 2.5	PASS
		VN	10	-7.00	-0.002726	± 2.5	PASS
		VN	20	5.30	0.002064	± 2.5	PASS
		VN	30	-1.30	-0.000506	± 2.5	PASS
		VN	40	8.40	0.003272	± 2.5	PASS
		VN	50	-15.20	-0.005920	± 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	9.10	0.003633	± 2.5	PASS
		VN	TN	-0.30	-0.000120	± 2.5	PASS
		VH	TN	-12.20	-0.004870	± 2.5	PASS
	MCH	VL	TN	-16.00	-0.006312	± 2.5	PASS
		VN	TN	-5.30	-0.002091	± 2.5	PASS
		VH	TN	-0.30	-0.000118	± 2.5	PASS
	HCH	VL	TN	-16.50	-0.006433	± 2.5	PASS
		VN	TN	9.10	0.003548	± 2.5	PASS
		VH	TN	-9.20	-0.003587	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.80	-0.000719	± 2.5	PASS
		VN	-20	6.60	0.002635	± 2.5	PASS
		VN	-10	-3.00	-0.001198	± 2.5	PASS
		VN	0	0.50	0.000200	± 2.5	PASS
		VN	10	-13.40	-0.005349	± 2.5	PASS
		VN	20	7.10	0.002834	± 2.5	PASS
		VN	30	9.20	0.003673	± 2.5	PASS
		VN	40	-14.90	-0.005948	± 2.5	PASS
		VN	50	-9.40	-0.003752	± 2.5	PASS
	MCH	VN	-30	10.40	0.004103	± 2.5	PASS
		VN	-20	-1.80	-0.000710	± 2.5	PASS
		VN	-10	-1.00	-0.000394	± 2.5	PASS
		VN	0	0.70	0.000276	± 2.5	PASS
		VN	10	9.30	0.003669	± 2.5	PASS
		VN	20	-9.00	-0.003550	± 2.5	PASS
		VN	30	4.10	0.001617	± 2.5	PASS
		VN	40	-9.50	-0.003748	± 2.5	PASS
		VN	50	-4.30	-0.001696	± 2.5	PASS
	HCH	VN	-30	-5.40	-0.002105	± 2.5	PASS
		VN	-20	7.00	0.002729	± 2.5	PASS
		VN	-10	-9.00	-0.003509	± 2.5	PASS
		VN	0	-10.60	-0.004133	± 2.5	PASS
		VN	10	-3.00	-0.001170	± 2.5	PASS
		VN	20	-3.90	-0.001520	± 2.5	PASS
		VN	30	-4.40	-0.001715	± 2.5	PASS
		VN	40	5.70	0.002222	± 2.5	PASS
	VN	50	-14.30	-0.005575	± 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	-10.80	-0.004307	± 2.5	PASS
		VN	TN	3.80	0.001515	± 2.5	PASS
		VH	TN	7.30	0.002911	± 2.5	PASS
	MCH	VL	TN	-11.00	-0.004339	± 2.5	PASS
		VN	TN	5.30	0.002091	± 2.5	PASS
		VH	TN	-9.80	-0.003866	± 2.5	PASS
	HCH	VL	TN	-5.20	-0.002029	± 2.5	PASS
		VN	TN	6.10	0.002380	± 2.5	PASS
		VH	TN	8.00	0.003122	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	12.50	0.004985	± 2.5	PASS
		VN	-20	-7.00	-0.002792	± 2.5	PASS
		VN	-10	8.50	0.003390	± 2.5	PASS
		VN	0	-8.70	-0.003470	± 2.5	PASS
		VN	10	-6.70	-0.002672	± 2.5	PASS
		VN	20	6.80	0.002712	± 2.5	PASS
		VN	30	-8.10	-0.003230	± 2.5	PASS
		VN	40	-8.50	-0.003390	± 2.5	PASS
		VN	50	-9.00	-0.003589	± 2.5	PASS
	MCH	VN	-30	9.40	0.003708	± 2.5	PASS
		VN	-20	3.00	0.001183	± 2.5	PASS
		VN	-10	2.50	0.000986	± 2.5	PASS
		VN	0	6.80	0.002682	± 2.5	PASS
		VN	10	6.70	0.002643	± 2.5	PASS
		VN	20	-12.00	-0.004734	± 2.5	PASS
		VN	30	-13.00	-0.005128	± 2.5	PASS
		VN	40	3.40	0.001341	± 2.5	PASS
		VN	50	5.10	0.002012	± 2.5	PASS
	HCH	VN	-30	5.30	0.002068	± 2.5	PASS
		VN	-20	-10.90	-0.004254	± 2.5	PASS
		VN	-10	7.40	0.002888	± 2.5	PASS
		VN	0	-4.30	-0.001678	± 2.5	PASS
		VN	10	-11.80	-0.004605	± 2.5	PASS
		VN	20	-11.60	-0.004527	± 2.5	PASS
		VN	30	-5.80	-0.002263	± 2.5	PASS
		VN	40	10.90	0.004254	± 2.5	PASS
		VN	50	-11.60	-0.004527	± 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	8.30	0.003307	± 2.5	PASS
		VN	TN	-0.50	-0.000199	± 2.5	PASS
		VH	TN	10.50	0.004183	± 2.5	PASS
	MCH	VL	TN	-13.00	-0.005128	± 2.5	PASS
		VN	TN	-15.00	-0.005917	± 2.5	PASS
		VH	TN	-2.60	-0.001026	± 2.5	PASS
	HCH	VL	TN	6.80	0.002656	± 2.5	PASS
		VN	TN	9.70	0.003789	± 2.5	PASS
		VH	TN	-13.00	-0.005078	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-9.10	-0.003625	± 2.5	PASS
		VN	-20	-14.10	-0.005618	± 2.5	PASS
		VN	-10	15.10	0.006016	± 2.5	PASS
		VN	0	3.60	0.001434	± 2.5	PASS
		VN	10	8.00	0.003187	± 2.5	PASS
		VN	20	3.20	0.001275	± 2.5	PASS
		VN	30	14.70	0.005857	± 2.5	PASS
		VN	40	-8.90	-0.003546	± 2.5	PASS
		VN	50	-3.40	-0.001355	± 2.5	PASS
	MCH	VN	-30	-12.50	-0.004931	± 2.5	PASS
		VN	-20	-10.40	-0.004103	± 2.5	PASS
		VN	-10	-6.00	-0.002367	± 2.5	PASS
		VN	0	-0.70	-0.000276	± 2.5	PASS
		VN	10	-10.70	-0.004221	± 2.5	PASS
		VN	20	-7.20	-0.002840	± 2.5	PASS
		VN	30	-12.70	-0.005010	± 2.5	PASS
		VN	40	14.80	0.005838	± 2.5	PASS
		VN	50	-1.20	-0.000473	± 2.5	PASS
	HCH	VN	-30	-8.90	-0.003477	± 2.5	PASS
		VN	-20	-11.30	-0.004414	± 2.5	PASS
		VN	-10	-10.20	-0.003984	± 2.5	PASS
		VN	0	-11.40	-0.004453	± 2.5	PASS
		VN	10	1.20	0.000469	± 2.5	PASS
		VN	20	-14.70	-0.005742	± 2.5	PASS
		VN	30	-9.20	-0.003594	± 2.5	PASS
		VN	40	2.10	0.000820	± 2.5	PASS
		VN	50	-12.00	-0.004688	± 2.5	PASS

LTE band12 Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.50	-0.000715	± 2.5	PASS
		VN	TN	7.20	0.010290	± 2.5	PASS
		VH	TN	-0.20	-0.000286	± 2.5	PASS
	MCH	VL	TN	-3.20	-0.004523	± 2.5	PASS
		VN	TN	-15.30	-0.021625	± 2.5	PASS
		VH	TN	-1.70	-0.002403	± 2.5	PASS
	HCH	VL	TN	-0.50	-0.000699	± 2.5	PASS
		VN	TN	-15.90	-0.022228	± 2.5	PASS
		VH	TN	-0.10	-0.000140	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.20	0.000286	± 2.5	PASS
		VN	-20	1.80	0.002573	± 2.5	PASS
		VN	-10	-0.10	-0.000143	± 2.5	PASS
		VN	0	-0.40	-0.000572	± 2.5	PASS
		VN	10	-2.60	-0.003716	± 2.5	PASS
		VN	20	1.30	0.001858	± 2.5	PASS
		VN	30	-1.50	-0.002144	± 2.5	PASS
		VN	40	-0.30	-0.000429	± 2.5	PASS
		VN	50	0.20	0.000286	± 2.5	PASS
	MCH	VN	-30	-0.70	-0.000989	± 2.5	PASS
		VN	-20	-1.30	-0.001837	± 2.5	PASS
		VN	-10	-1.50	-0.002120	± 2.5	PASS
		VN	0	-1.20	-0.001696	± 2.5	PASS
		VN	10	0.50	0.000707	± 2.5	PASS
		VN	20	-0.20	-0.000283	± 2.5	PASS
		VN	30	-2.00	-0.002827	± 2.5	PASS
		VN	40	-0.40	-0.000565	± 2.5	PASS
		VN	50	-0.20	-0.000283	± 2.5	PASS
	HCH	VN	-30	-1.20	-0.001678	± 2.5	PASS
		VN	-20	-0.10	-0.000140	± 2.5	PASS
		VN	-10	-1.20	-0.001678	± 2.5	PASS
		VN	0	0.40	0.000559	± 2.5	PASS
		VN	10	-0.70	-0.000979	± 2.5	PASS
		VN	20	-0.80	-0.001118	± 2.5	PASS
		VN	30	-0.40	-0.000559	± 2.5	PASS
		VN	40	-0.20	-0.000280	± 2.5	PASS
		VN	50	-0.40	-0.000559	± 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	1.70	0.002427	± 2.5	PASS
		VN	TN	1.60	0.002284	± 2.5	PASS
		VH	TN	0.90	0.001285	± 2.5	PASS
	MCH	VL	TN	1.20	0.001696	± 2.5	PASS
		VN	TN	-0.10	-0.000141	± 2.5	PASS
		VH	TN	0.80	0.001131	± 2.5	PASS
	HCH	VL	TN	0.90	0.001260	± 2.5	PASS
		VN	TN	1.80	0.002519	± 2.5	PASS
		VH	TN	0.70	0.000980	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.30	-0.003283	± 2.5	PASS
		VN	-20	0.70	0.000999	± 2.5	PASS
		VN	-10	0.50	0.000714	± 2.5	PASS
		VN	0	-0.20	-0.000286	± 2.5	PASS
		VN	10	-1.20	-0.001713	± 2.5	PASS
		VN	20	-0.60	-0.000857	± 2.5	PASS
		VN	30	0.00	0.000000	± 2.5	PASS
		VN	40	0.90	0.001285	± 2.5	PASS
		VN	50	0.00	0.000000	± 2.5	PASS
	MCH	VN	-30	1.50	0.002120	± 2.5	PASS
		VN	-20	-0.40	-0.000565	± 2.5	PASS
		VN	-10	-0.40	-0.000565	± 2.5	PASS
		VN	0	1.20	0.001696	± 2.5	PASS
		VN	10	-0.70	-0.000989	± 2.5	PASS
		VN	20	-0.30	-0.000424	± 2.5	PASS
		VN	30	0.80	0.001131	± 2.5	PASS
		VN	40	-0.30	-0.000424	± 2.5	PASS
		VN	50	0.80	0.001131	± 2.5	PASS
	HCH	VN	-30	0.10	0.000140	± 2.5	PASS
		VN	-20	-1.00	-0.001400	± 2.5	PASS
		VN	-10	0.80	0.001120	± 2.5	PASS
		VN	0	0.50	0.000700	± 2.5	PASS
		VN	10	0.50	0.000700	± 2.5	PASS
		VN	20	0.10	0.000140	± 2.5	PASS
		VN	30	1.30	0.001819	± 2.5	PASS
		VN	40	1.70	0.002379	± 2.5	PASS
		VN	50	1.30	0.001819	± 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	1.20	0.001711	± 2.5	PASS
		VN	TN	-0.10	-0.000143	± 2.5	PASS
		VH	TN	1.50	0.002138	± 2.5	PASS
	MCH	VL	TN	0.00	0.000000	± 2.5	PASS
		VN	TN	-0.40	-0.000565	± 2.5	PASS
		VH	TN	-0.70	-0.000989	± 2.5	PASS
	HCH	VL	TN	-1.00	-0.001402	± 2.5	PASS
		VN	TN	0.00	0.000000	± 2.5	PASS
		VH	TN	0.30	0.000420	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.00	0.001426	± 2.5	PASS
		VN	-20	0.40	0.000570	± 2.5	PASS
		VN	-10	1.60	0.002281	± 2.5	PASS
		VN	0	0.80	0.001140	± 2.5	PASS
		VN	10	1.10	0.001568	± 2.5	PASS
		VN	20	0.30	0.000428	± 2.5	PASS
		VN	30	2.20	0.003136	± 2.5	PASS
		VN	40	1.10	0.001568	± 2.5	PASS
		VN	50	2.50	0.003564	± 2.5	PASS
	MCH	VN	-30	1.40	0.001979	± 2.5	PASS
		VN	-20	-0.90	-0.001272	± 2.5	PASS
		VN	-10	0.80	0.001131	± 2.5	PASS
		VN	0	0.50	0.000707	± 2.5	PASS
		VN	10	-0.40	-0.000565	± 2.5	PASS
		VN	20	1.40	0.001979	± 2.5	PASS
		VN	30	-0.20	-0.000283	± 2.5	PASS
		VN	40	0.10	0.000141	± 2.5	PASS
		VN	50	-0.20	-0.000283	± 2.5	PASS
	HCH	VN	-30	0.80	0.001121	± 2.5	PASS
		VN	-20	-1.00	-0.001402	± 2.5	PASS
		VN	-10	-0.90	-0.001261	± 2.5	PASS
		VN	0	0.00	0.000000	± 2.5	PASS
		VN	10	1.80	0.002523	± 2.5	PASS
		VN	20	1.00	0.001402	± 2.5	PASS
		VN	30	-0.50	-0.000701	± 2.5	PASS
		VN	40	-0.10	-0.000140	± 2.5	PASS
	VN	50	-1.00	-0.001402	± 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	1.40	0.001989	± 2.5	PASS
		VN	TN	0.20	0.000284	± 2.5	PASS
		VH	TN	0.50	0.000710	± 2.5	PASS
	MCH	VL	TN	-0.90	-0.001272	± 2.5	PASS
		VN	TN	-2.00	-0.002827	± 2.5	PASS
		VH	TN	-1.60	-0.002261	± 2.5	PASS
	HCH	VL	TN	-0.60	-0.000844	± 2.5	PASS
		VN	TN	0.50	0.000703	± 2.5	PASS
		VH	TN	0.20	0.000281	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.60	-0.002273	± 2.5	PASS
		VN	-20	0.10	0.000142	± 2.5	PASS
		VN	-10	-0.20	-0.000284	± 2.5	PASS
		VN	0	-0.20	-0.000284	± 2.5	PASS
		VN	10	-1.40	-0.001989	± 2.5	PASS
		VN	20	0.30	0.000426	± 2.5	PASS
		VN	30	-1.60	-0.002273	± 2.5	PASS
		VN	40	-0.80	-0.001136	± 2.5	PASS
		VN	50	-0.60	-0.000852	± 2.5	PASS
	MCH	VN	-30	-1.20	-0.001696	± 2.5	PASS
		VN	-20	-0.30	-0.000424	± 2.5	PASS
		VN	-10	-0.40	-0.000565	± 2.5	PASS
		VN	0	0.20	0.000283	± 2.5	PASS
		VN	10	-0.40	-0.000565	± 2.5	PASS
		VN	20	0.30	0.000424	± 2.5	PASS
		VN	30	-1.30	-0.001837	± 2.5	PASS
		VN	40	-2.30	-0.003251	± 2.5	PASS
		VN	50	-1.00	-0.001413	± 2.5	PASS
	HCH	VN	-30	0.30	0.000422	± 2.5	PASS
		VN	-20	0.30	0.000422	± 2.5	PASS
		VN	-10	-0.80	-0.001125	± 2.5	PASS
		VN	0	-0.20	-0.000281	± 2.5	PASS
		VN	10	1.00	0.001406	± 2.5	PASS
		VN	20	1.10	0.001547	± 2.5	PASS
		VN	30	0.50	0.000703	± 2.5	PASS
		VN	40	-0.90	-0.001266	± 2.5	PASS
		VN	50	0.10	0.000141	± 2.5	PASS

LTE band17 Test Result
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	-1.20	-0.001699	± 2.5	PASS
		VN	TN	1.30	0.001840	± 2.5	PASS
		VH	TN	-2.80	-0.003963	± 2.5	PASS
	MCH	VL	TN	2.80	0.003944	± 2.5	PASS
		VN	TN	-2.30	-0.003239	± 2.5	PASS
		VH	TN	7.00	0.009859	± 2.5	PASS
	HCH	VL	TN	-4.00	-0.005606	± 2.5	PASS
		VN	TN	-0.60	-0.000841	± 2.5	PASS
		VH	TN	-3.60	-0.005046	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.70	-0.003822	± 2.5	PASS
		VN	-20	-2.10	-0.002972	± 2.5	PASS
		VN	-10	-0.70	-0.000991	± 2.5	PASS
		VN	0	-0.10	-0.000142	± 2.5	PASS
		VN	10	2.00	0.002831	± 2.5	PASS
		VN	20	4.80	0.006794	± 2.5	PASS
		VN	30	-1.40	-0.001982	± 2.5	PASS
		VN	40	4.60	0.006511	± 2.5	PASS
		VN	50	-0.10	-0.000142	± 2.5	PASS
	MCH	VN	-30	2.40	0.003380	± 2.5	PASS
		VN	-20	9.20	0.012958	± 2.5	PASS
		VN	-10	6.80	0.009577	± 2.5	PASS
		VN	0	3.50	0.004930	± 2.5	PASS
		VN	10	0.80	0.001127	± 2.5	PASS
		VN	20	6.80	0.009577	± 2.5	PASS
		VN	30	2.90	0.004085	± 2.5	PASS
		VN	40	2.70	0.003803	± 2.5	PASS
		VN	50	-0.20	-0.000282	± 2.5	PASS
	HCH	VN	-30	0.90	0.001261	± 2.5	PASS
		VN	-20	-4.30	-0.006027	± 2.5	PASS
		VN	-10	-0.70	-0.000981	± 2.5	PASS
		VN	0	-6.30	-0.008830	± 2.5	PASS
		VN	10	-1.90	-0.002663	± 2.5	PASS
		VN	20	1.30	0.001822	± 2.5	PASS
		VN	30	-3.50	-0.004905	± 2.5	PASS
		VN	40	0.10	0.000140	± 2.5	PASS
	VN	50	-2.00	-0.002803	± 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	1.20	0.001693	± 2.5	PASS
		VN	TN	-3.90	-0.005501	± 2.5	PASS
		VH	TN	-0.50	-0.000705	± 2.5	PASS
	MCH	VL	TN	-3.50	-0.004930	± 2.5	PASS
		VN	TN	0.90	0.001268	± 2.5	PASS
		VH	TN	5.20	0.007324	± 2.5	PASS
	HCH	VL	TN	-4.80	-0.006751	± 2.5	PASS
		VN	TN	4.00	0.005626	± 2.5	PASS
		VH	TN	-2.50	-0.003516	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.60	-0.005078	± 2.5	PASS
		VN	-20	-7.00	-0.009873	± 2.5	PASS
		VN	-10	-2.40	-0.003385	± 2.5	PASS
		VN	0	-5.00	-0.007052	± 2.5	PASS
		VN	10	-4.40	-0.006206	± 2.5	PASS
		VN	20	-0.10	-0.000141	± 2.5	PASS
		VN	30	-6.30	-0.008886	± 2.5	PASS
		VN	40	-5.00	-0.007052	± 2.5	PASS
		VN	50	-2.90	-0.004090	± 2.5	PASS
	MCH	VN	-30	3.10	0.004366	± 2.5	PASS
		VN	-20	3.10	0.004366	± 2.5	PASS
		VN	-10	1.50	0.002113	± 2.5	PASS
		VN	0	7.20	0.010141	± 2.5	PASS
		VN	10	7.20	0.010141	± 2.5	PASS
		VN	20	6.20	0.008732	± 2.5	PASS
		VN	30	3.60	0.005070	± 2.5	PASS
		VN	40	2.10	0.002958	± 2.5	PASS
		VN	50	-1.30	-0.001831	± 2.5	PASS
	HCH	VN	-30	1.50	0.002110	± 2.5	PASS
		VN	-20	-5.20	-0.007314	± 2.5	PASS
		VN	-10	-0.70	-0.000985	± 2.5	PASS
		VN	0	2.00	0.002813	± 2.5	PASS
		VN	10	-2.40	-0.003376	± 2.5	PASS
		VN	20	1.40	0.001969	± 2.5	PASS
		VN	30	-4.30	-0.006048	± 2.5	PASS
		VN	40	-0.20	-0.000281	± 2.5	PASS
		VN	50	4.00	0.005626	± 2.5	PASS

LTE band38 Test Result
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	-7.50	-0.002915	± 2.5	PASS
		VN	TN	-7.40	-0.002877	± 2.5	PASS
		VH	TN	4.70	0.001827	± 2.5	PASS
	MCH	VL	TN	-6.80	-0.002620	± 2.5	PASS
		VN	TN	3.10	0.001195	± 2.5	PASS
		VH	TN	-13.20	-0.005087	± 2.5	PASS
	HCH	VL	TN	-11.60	-0.004432	± 2.5	PASS
		VN	TN	-4.00	-0.001528	± 2.5	PASS
		VH	TN	9.40	0.003591	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-15.80	-0.006142	± 2.5	PASS
		VN	-20	-16.30	-0.006336	± 2.5	PASS
		VN	-10	-2.20	-0.000855	± 2.5	PASS
		VN	0	-6.20	-0.002410	± 2.5	PASS
		VN	10	-14.70	-0.005714	± 2.5	PASS
		VN	20	-0.50	-0.000194	± 2.5	PASS
		VN	30	-6.20	-0.002410	± 2.5	PASS
		VN	40	5.80	0.002255	± 2.5	PASS
		VN	50	-9.70	-0.003771	± 2.5	PASS
	MCH	VN	-30	10.80	0.004162	± 2.5	PASS
		VN	-20	2.60	0.001002	± 2.5	PASS
		VN	-10	6.40	0.002466	± 2.5	PASS
		VN	0	14.60	0.005626	± 2.5	PASS
		VN	10	-10.70	-0.004123	± 2.5	PASS
		VN	20	-9.70	-0.003738	± 2.5	PASS
		VN	30	-1.20	-0.000462	± 2.5	PASS
		VN	40	-12.50	-0.004817	± 2.5	PASS
		VN	50	-12.90	-0.004971	± 2.5	PASS
	HCH	VN	-30	-3.70	-0.001414	± 2.5	PASS
		VN	-20	-3.40	-0.001299	± 2.5	PASS
		VN	-10	9.60	0.003668	± 2.5	PASS
		VN	0	-0.60	-0.000229	± 2.5	PASS
		VN	10	-1.80	-0.000688	± 2.5	PASS
		VN	20	7.10	0.002713	± 2.5	PASS
		VN	30	0.90	0.000344	± 2.5	PASS
		VN	40	8.80	0.003362	± 2.5	PASS
	VN	50	-2.90	-0.001108	± 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	-2.40	-0.000932	± 2.5	PASS
		VN	TN	3.80	0.001476	± 2.5	PASS
		VH	TN	-7.30	-0.002835	± 2.5	PASS
	MCH	VL	TN	-5.40	-0.002081	± 2.5	PASS
		VN	TN	5.50	0.002119	± 2.5	PASS
		VH	TN	-2.80	-0.001079	± 2.5	PASS
	HCH	VL	TN	5.30	0.002027	± 2.5	PASS
		VN	TN	-3.00	-0.001147	± 2.5	PASS
		VH	TN	-10.80	-0.004130	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-7.00	-0.002718	± 2.5	PASS
		VN	-20	-9.10	-0.003534	± 2.5	PASS
		VN	-10	-5.10	-0.001981	± 2.5	PASS
		VN	0	-8.80	-0.003417	± 2.5	PASS
		VN	10	4.40	0.001709	± 2.5	PASS
		VN	20	-2.40	-0.000932	± 2.5	PASS
		VN	30	3.40	0.001320	± 2.5	PASS
		VN	40	-10.70	-0.004155	± 2.5	PASS
		VN	50	-5.10	-0.001981	± 2.5	PASS
	MCH	VN	-30	-9.20	-0.003545	± 2.5	PASS
		VN	-20	-2.70	-0.001040	± 2.5	PASS
		VN	-10	-13.50	-0.005202	± 2.5	PASS
		VN	0	-0.70	-0.000270	± 2.5	PASS
		VN	10	-7.40	-0.002852	± 2.5	PASS
		VN	20	-6.10	-0.002351	± 2.5	PASS
		VN	30	-0.70	-0.000270	± 2.5	PASS
		VN	40	-14.80	-0.005703	± 2.5	PASS
		VN	50	-3.30	-0.001272	± 2.5	PASS
	HCH	VN	-30	-7.80	-0.002983	± 2.5	PASS
		VN	-20	2.30	0.000880	± 2.5	PASS
		VN	-10	3.70	0.001415	± 2.5	PASS
		VN	0	-2.20	-0.000841	± 2.5	PASS
		VN	10	4.80	0.001836	± 2.5	PASS
		VN	20	-14.60	-0.005583	± 2.5	PASS
		VN	30	2.80	0.001071	± 2.5	PASS
		VN	40	-1.70	-0.000650	± 2.5	PASS
	VN	50	-5.50	-0.002103	± 2.5	PASS	

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-2.40	-0.000931	± 2.5	PASS
		VN	TN	-1.90	-0.000737	± 2.5	PASS
		VH	TN	-1.20	-0.000466	± 2.5	PASS
	MCH	VL	TN	1.20	0.000462	± 2.5	PASS
		VN	TN	-4.80	-0.001850	± 2.5	PASS
		VH	TN	-0.60	-0.000231	± 2.5	PASS
	HCH	VL	TN	0.40	0.000153	± 2.5	PASS
		VN	TN	-8.30	-0.003177	± 2.5	PASS
		VH	TN	-0.40	-0.000153	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.30	-0.000116	± 2.5	PASS
		VN	-20	-2.00	-0.000776	± 2.5	PASS
		VN	-10	0.60	0.000233	± 2.5	PASS
		VN	0	-0.30	-0.000116	± 2.5	PASS
		VN	10	-5.50	-0.002134	± 2.5	PASS
		VN	20	-6.40	-0.002483	± 2.5	PASS
		VN	30	-7.60	-0.002949	± 2.5	PASS
		VN	40	1.70	0.000660	± 2.5	PASS
		VN	50	-3.90	-0.001513	± 2.5	PASS
	MCH	VN	-30	4.30	0.001657	± 2.5	PASS
		VN	-20	-3.30	-0.001272	± 2.5	PASS
		VN	-10	-7.70	-0.002967	± 2.5	PASS
		VN	0	0.50	0.000193	± 2.5	PASS
		VN	10	-6.60	-0.002543	± 2.5	PASS
		VN	20	-5.20	-0.002004	± 2.5	PASS
		VN	30	-1.70	-0.000655	± 2.5	PASS
		VN	40	-6.10	-0.002351	± 2.5	PASS
		VN	50	-10.70	-0.004123	± 2.5	PASS
	HCH	VN	-30	4.90	0.001876	± 2.5	PASS
		VN	-20	-10.20	-0.003904	± 2.5	PASS
		VN	-10	-9.80	-0.003751	± 2.5	PASS
		VN	0	5.90	0.002258	± 2.5	PASS
		VN	10	5.00	0.001914	± 2.5	PASS
		VN	20	-4.90	-0.001876	± 2.5	PASS
		VN	30	4.60	0.001761	± 2.5	PASS
		VN	40	0.30	0.000115	± 2.5	PASS
	VN	50	1.10	0.000421	± 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	0.50	0.000194	± 2.5	PASS
		VN	TN	-5.20	-0.002016	± 2.5	PASS
		VH	TN	-1.00	-0.000388	± 2.5	PASS
	MCH	VL	TN	-8.80	-0.003391	± 2.5	PASS
		VN	TN	-1.90	-0.000732	± 2.5	PASS
		VH	TN	-9.50	-0.003661	± 2.5	PASS
	HCH	VL	TN	-7.00	-0.002682	± 2.5	PASS
		VN	TN	-0.10	-0.000038	± 2.5	PASS
		VH	TN	-9.20	-0.003525	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-5.80	-0.002248	± 2.5	PASS
		VN	-20	1.10	0.000426	± 2.5	PASS
		VN	-10	-1.30	-0.000504	± 2.5	PASS
		VN	0	-2.40	-0.000930	± 2.5	PASS
		VN	10	-7.80	-0.003023	± 2.5	PASS
		VN	20	5.60	0.002171	± 2.5	PASS
		VN	30	-1.70	-0.000659	± 2.5	PASS
		VN	40	-1.30	-0.000504	± 2.5	PASS
		VN	50	-0.80	-0.000310	± 2.5	PASS
	MCH	VN	-30	1.80	0.000694	± 2.5	PASS
		VN	-20	-3.20	-0.001233	± 2.5	PASS
		VN	-10	-3.30	-0.001272	± 2.5	PASS
		VN	0	5.30	0.002042	± 2.5	PASS
		VN	10	-3.60	-0.001387	± 2.5	PASS
		VN	20	1.30	0.000501	± 2.5	PASS
		VN	30	3.60	0.001387	± 2.5	PASS
		VN	40	1.50	0.000578	± 2.5	PASS
		VN	50	-10.10	-0.003892	± 2.5	PASS
	HCH	VN	-30	-0.60	-0.000230	± 2.5	PASS
		VN	-20	9.30	0.003563	± 2.5	PASS
		VN	-10	-3.70	-0.001418	± 2.5	PASS
		VN	0	-12.80	-0.004904	± 2.5	PASS
		VN	10	0.50	0.000192	± 2.5	PASS
		VN	20	-9.40	-0.003602	± 2.5	PASS
		VN	30	6.40	0.002452	± 2.5	PASS
		VN	40	-1.10	-0.000421	± 2.5	PASS
		VN	50	-11.60	-0.004444	± 2.5	PASS

LTE band41 Test Result
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	-6.10	-0.002390	± 2.5	PASS
		VN	TN	-3.70	-0.001450	± 2.5	PASS
		VH	TN	-3.70	-0.001450	± 2.5	PASS
	MCH	VL	TN	6.90	0.002659	± 2.5	PASS
		VN	TN	-1.80	-0.000694	± 2.5	PASS
		VH	TN	-0.60	-0.000231	± 2.5	PASS
	HCH	VL	TN	2.30	0.000872	± 2.5	PASS
		VN	TN	1.20	0.000455	± 2.5	PASS
		VH	TN	3.90	0.001479	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.10	0.001606	± 2.5	PASS
		VN	-20	10.00	0.003918	± 2.5	PASS
		VN	-10	-6.50	-0.002547	± 2.5	PASS
		VN	0	1.10	0.000431	± 2.5	PASS
		VN	10	-5.00	-0.001959	± 2.5	PASS
		VN	20	-4.60	-0.001802	± 2.5	PASS
		VN	30	8.90	0.003487	± 2.5	PASS
		VN	40	4.00	0.001567	± 2.5	PASS
		VN	50	-1.70	-0.000666	± 2.5	PASS
	MCH	VN	-30	0.40	0.000154	± 2.5	PASS
		VN	-20	-5.70	-0.002197	± 2.5	PASS
		VN	-10	-5.20	-0.002004	± 2.5	PASS
		VN	0	-10.90	-0.004200	± 2.5	PASS
		VN	10	-3.40	-0.001310	± 2.5	PASS
		VN	20	-9.20	-0.003545	± 2.5	PASS
		VN	30	-16.00	-0.006166	± 2.5	PASS
		VN	40	-7.90	-0.003044	± 2.5	PASS
		VN	50	-13.10	-0.005048	± 2.5	PASS
	HCH	VN	-30	-12.40	-0.004701	± 2.5	PASS
		VN	-20	-10.30	-0.003905	± 2.5	PASS
		VN	-10	-3.70	-0.001403	± 2.5	PASS
		VN	0	-2.90	-0.001100	± 2.5	PASS
		VN	10	1.80	0.000682	± 2.5	PASS
		VN	20	1.80	0.000682	± 2.5	PASS
		VN	30	-14.70	-0.005573	± 2.5	PASS
		VN	40	-16.80	-0.006370	± 2.5	PASS
	VN	50	-5.80	-0.002199	± 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	5.50	0.002153	± 2.5	PASS
		VN	TN	-8.90	-0.003483	± 2.5	PASS
		VH	TN	-6.60	-0.002583	± 2.5	PASS
	MCH	VL	TN	-7.80	-0.003006	± 2.5	PASS
		VN	TN	4.40	0.001696	± 2.5	PASS
		VH	TN	-9.90	-0.003815	± 2.5	PASS
	HCH	VL	TN	1.50	0.000569	± 2.5	PASS
		VN	TN	-4.70	-0.001784	± 2.5	PASS
		VH	TN	-0.80	-0.000304	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-13.40	-0.005245	± 2.5	PASS
		VN	-20	6.10	0.002387	± 2.5	PASS
		VN	-10	-12.50	-0.004892	± 2.5	PASS
		VN	0	3.30	0.001292	± 2.5	PASS
		VN	10	-10.50	-0.004110	± 2.5	PASS
		VN	20	-1.40	-0.000548	± 2.5	PASS
		VN	30	3.90	0.001526	± 2.5	PASS
		VN	40	2.00	0.000783	± 2.5	PASS
		VN	50	-10.60	-0.004149	± 2.5	PASS
	MCH	VN	-30	1.10	0.000424	± 2.5	PASS
		VN	-20	-7.20	-0.002775	± 2.5	PASS
		VN	-10	-0.70	-0.000270	± 2.5	PASS
		VN	0	-4.10	-0.001580	± 2.5	PASS
		VN	10	-1.10	-0.000424	± 2.5	PASS
		VN	20	3.90	0.001503	± 2.5	PASS
		VN	30	2.30	0.000886	± 2.5	PASS
		VN	40	2.50	0.000963	± 2.5	PASS
		VN	50	1.00	0.000385	± 2.5	PASS
	HCH	VN	-30	-3.00	-0.001139	± 2.5	PASS
		VN	-20	9.70	0.003681	± 2.5	PASS
		VN	-10	1.60	0.000607	± 2.5	PASS
		VN	0	5.50	0.002087	± 2.5	PASS
		VN	10	4.10	0.001556	± 2.5	PASS
		VN	20	-2.00	-0.000759	± 2.5	PASS
		VN	30	-12.40	-0.004706	± 2.5	PASS
		VN	40	5.30	0.002011	± 2.5	PASS
		VN	50	-4.30	-0.001632	± 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	-11.20	-0.004379	± 2.5	PASS
		VN	TN	-6.70	-0.002620	± 2.5	PASS
		VH	TN	-2.40	-0.000938	± 2.5	PASS
	MCH	VL	TN	-10.40	-0.004008	± 2.5	PASS
		VN	TN	1.20	0.000462	± 2.5	PASS
		VH	TN	0.00	0.000000	± 2.5	PASS
	HCH	VL	TN	-2.70	-0.001026	± 2.5	PASS
		VN	TN	1.60	0.000608	± 2.5	PASS
		VH	TN	11.10	0.004217	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.20	0.000078	± 2.5	PASS
		VN	-20	-0.80	-0.000313	± 2.5	PASS
		VN	-10	-13.60	-0.005318	± 2.5	PASS
		VN	0	3.90	0.001525	± 2.5	PASS
		VN	10	-0.20	-0.000078	± 2.5	PASS
		VN	20	3.20	0.001251	± 2.5	PASS
		VN	30	-8.00	-0.003128	± 2.5	PASS
		VN	40	-5.70	-0.002229	± 2.5	PASS
		VN	50	-3.40	-0.001329	± 2.5	PASS
	MCH	VN	-30	-4.80	-0.001850	± 2.5	PASS
		VN	-20	-4.50	-0.001734	± 2.5	PASS
		VN	-10	-5.60	-0.002158	± 2.5	PASS
		VN	0	-4.10	-0.001580	± 2.5	PASS
		VN	10	6.20	0.002389	± 2.5	PASS
		VN	20	0.90	0.000347	± 2.5	PASS
		VN	30	1.40	0.000539	± 2.5	PASS
		VN	40	-9.80	-0.003776	± 2.5	PASS
		VN	50	6.80	0.002620	± 2.5	PASS
	HCH	VN	-30	-3.20	-0.001216	± 2.5	PASS
		VN	-20	-6.40	-0.002431	± 2.5	PASS
		VN	-10	-4.20	-0.001595	± 2.5	PASS
		VN	0	-3.00	-0.001140	± 2.5	PASS
		VN	10	3.90	0.001481	± 2.5	PASS
		VN	20	-4.40	-0.001671	± 2.5	PASS
		VN	30	-4.50	-0.001709	± 2.5	PASS
		VN	40	-9.70	-0.003685	± 2.5	PASS
	VN	50	-1.90	-0.000722	± 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	-4.80	-0.001875	± 2.5	PASS
		VN	TN	-2.00	-0.000781	± 2.5	PASS
		VH	TN	-6.70	-0.002617	± 2.5	PASS
	MCH	VL	TN	-8.70	-0.003353	± 2.5	PASS
		VN	TN	-4.50	-0.001734	± 2.5	PASS
		VH	TN	3.00	0.001156	± 2.5	PASS
	HCH	VL	TN	-4.00	-0.001521	± 2.5	PASS
		VN	TN	-0.80	-0.000304	± 2.5	PASS
		VH	TN	-7.40	-0.002814	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-12.80	-0.005000	± 2.5	PASS
		VN	-20	5.70	0.002227	± 2.5	PASS
		VN	-10	-0.10	-0.000039	± 2.5	PASS
		VN	0	-8.40	-0.003281	± 2.5	PASS
		VN	10	-2.10	-0.000820	± 2.5	PASS
		VN	20	-1.90	-0.000742	± 2.5	PASS
		VN	30	1.40	0.000547	± 2.5	PASS
		VN	40	-4.40	-0.001719	± 2.5	PASS
		VN	50	-4.60	-0.001797	± 2.5	PASS
	MCH	VN	-30	-12.70	-0.004894	± 2.5	PASS
		VN	-20	-2.10	-0.000809	± 2.5	PASS
		VN	-10	0.60	0.000231	± 2.5	PASS
		VN	0	0.90	0.000347	± 2.5	PASS
		VN	10	-8.80	-0.003391	± 2.5	PASS
		VN	20	-6.00	-0.002312	± 2.5	PASS
		VN	30	-3.60	-0.001387	± 2.5	PASS
		VN	40	-7.10	-0.002736	± 2.5	PASS
		VN	50	-7.80	-0.003006	± 2.5	PASS
	HCH	VN	-30	1.60	0.000608	± 2.5	PASS
		VN	-20	-0.80	-0.000304	± 2.5	PASS
		VN	-10	-5.70	-0.002167	± 2.5	PASS
		VN	0	2.10	0.000798	± 2.5	PASS
		VN	10	-5.40	-0.002053	± 2.5	PASS
		VN	20	-5.70	-0.002167	± 2.5	PASS
		VN	30	-3.70	-0.001407	± 2.5	PASS
		VN	40	-1.90	-0.000722	± 2.5	PASS
		VN	50	-11.40	-0.004335	± 2.5	PASS

3.4. Emission Bandwidth & Occupied Bandwidth Test

■ Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0845	1.220	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0844	1.218	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0841	1.225	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0859	1.219	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0860	1.217	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0857	1.219	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6913	2.917	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6922	2.911	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6905	2.913	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6890	2.904	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6896	2.901	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6908	2.902	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4877	4.814	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4884	4.811	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4875	4.805	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4920	4.795	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4913	4.814	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4926	4.803	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9566	9.516	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9692	9.528	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9669	9.509	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9618	9.508	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9794	9.525	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9723	9.507	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.424	14.24	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.468	14.27	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.437	14.24	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.414	14.21	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.459	14.25	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.426	14.22	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.839	18.92	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.940	19.00	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	20MHz	QPSK	19100	100RB#0	17.837	18.93	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.850	18.91	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.949	18.98	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.845	18.90	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0846	1.220	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0839	1.220	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0840	1.218	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0858	1.216	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0856	1.213	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0853	1.215	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6922	2.913	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6912	2.912	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6919	2.916	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6898	2.901	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6901	2.900	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6896	2.895	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4864	4.806	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4863	4.804	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4858	4.797	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4915	4.816	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.4901	4.815	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.4898	4.814	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9587	9.521	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9580	9.517	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9558	9.519	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9666	9.520	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9622	9.520	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9597	9.508	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.453	14.27	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.436	14.26	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.435	14.25	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.445	14.24	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.428	14.22	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.424	14.22	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.907	18.98	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.870	18.95	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.865	18.96	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	20MHz	16QAM	20050	100RB#0	17.916	18.95	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.879	18.92	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.878	18.92	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0850	1.231	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0842	1.218	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0836	1.232	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0869	1.219	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0864	1.217	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0854	1.216	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6936	2.955	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6922	2.914	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6913	2.953	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6907	2.916	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6912	2.902	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6894	2.912	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4832	4.832	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4887	4.809	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4861	4.834	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4900	4.804	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4945	4.812	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4900	4.802	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9259	9.501	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9731	9.524	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9625	9.552	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9298	9.493	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9776	9.513	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9653	9.521	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4881	4.814	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4860	4.812	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4855	4.818	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4917	4.819	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4897	4.813	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4925	4.820	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9648	9.521	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9575	9.525	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9558	9.523	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9741	9.528	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9644	9.515	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9624	9.515	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.460	14.27	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.438	14.25	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.439	14.25	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.449	14.25	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.429	14.23	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.431	14.22	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.907	18.98	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.872	18.95	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.889	18.95	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.920	18.95	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.888	18.93	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	18.95	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0849	1.213	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0841	1.217	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0841	1.213	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0856	1.217	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0856	1.217	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0850	1.215	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6896	2.900	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6899	2.902	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6906	2.900	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6862	2.895	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6876	2.897	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6880	2.899	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4836	4.789	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4791	4.784	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4826	4.794	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4880	4.808	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4841	4.801	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4869	4.819	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9611	9.513	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9534	9.507	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9472	9.501	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9609	9.518	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9560	9.508	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9494	9.508	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.4920	4.821	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.4847	4.803	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4816	4.802	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.4973	4.821	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.4892	4.801	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.4868	4.795	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9619	9.525	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9371	9.496	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9281	9.494	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9706	9.491	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9453	9.493	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9318	9.487	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4840	4.891	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.4830	4.888	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4818	4.871	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4863	4.876	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.4854	4.846	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4840	4.887	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9521	9.579	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9393	9.665	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9414	9.678	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9531	9.596	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9523	9.570	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9604	9.572	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.446	14.39	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.435	14.34	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.433	14.36	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.450	14.31	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.434	14.27	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.436	14.27	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.879	19.05	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.854	19.02	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.847	19.02	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.876	18.98	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.847	18.96	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.847	18.94	PASS

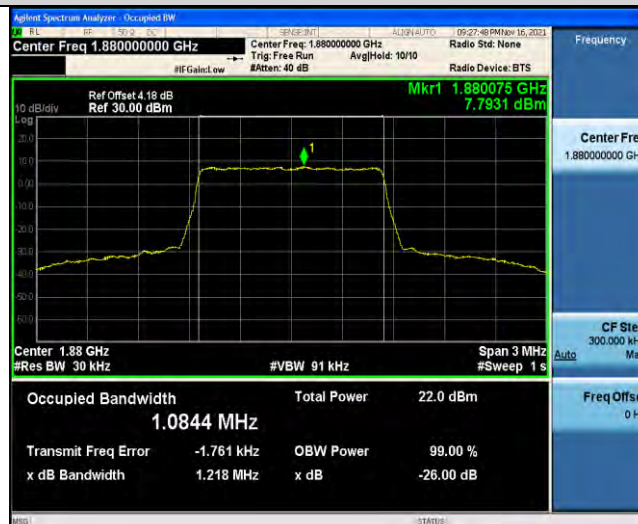
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40115	25RB#0	4.4873	4.786	PASS
Band41	5MHz	QPSK	40640	25RB#0	4.4882	4.778	PASS
Band41	5MHz	QPSK	41165	25RB#0	4.4891	4.778	PASS
Band41	5MHz	16QAM	40115	25RB#0	4.4913	4.785	PASS
Band41	5MHz	16QAM	40640	25RB#0	4.4896	4.804	PASS
Band41	5MHz	16QAM	41165	25RB#0	4.4904	4.809	PASS
Band41	10MHz	QPSK	40140	50RB#0	8.9522	9.503	PASS
Band41	10MHz	QPSK	40640	50RB#0	8.9523	9.507	PASS
Band41	10MHz	QPSK	41140	50RB#0	8.9527	9.505	PASS
Band41	10MHz	16QAM	40140	50RB#0	8.9571	9.513	PASS
Band41	10MHz	16QAM	40640	50RB#0	8.9527	9.495	PASS
Band41	10MHz	16QAM	41140	50RB#0	8.9539	9.505	PASS
Band41	15MHz	QPSK	40165	75RB#0	13.433	14.23	PASS
Band41	15MHz	QPSK	40640	75RB#0	13.436	14.22	PASS
Band41	15MHz	QPSK	41115	75RB#0	13.434	14.24	PASS
Band41	15MHz	16QAM	40165	75RB#0	13.428	14.22	PASS
Band41	15MHz	16QAM	40640	75RB#0	13.422	14.22	PASS
Band41	15MHz	16QAM	41115	75RB#0	13.431	14.21	PASS
Band41	20MHz	QPSK	40190	100RB#0	17.871	18.94	PASS
Band41	20MHz	QPSK	40640	100RB#0	17.882	18.93	PASS
Band41	20MHz	QPSK	41090	100RB#0	17.871	18.95	PASS
Band41	20MHz	16QAM	40190	100RB#0	17.869	18.92	PASS
Band41	20MHz	16QAM	40640	100RB#0	17.871	18.91	PASS
Band41	20MHz	16QAM	41090	100RB#0	17.873	18.93	PASS

LTE band2 Test Graphs

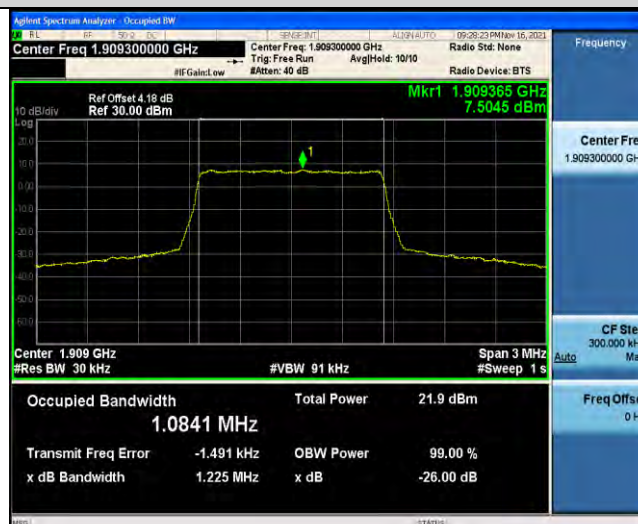
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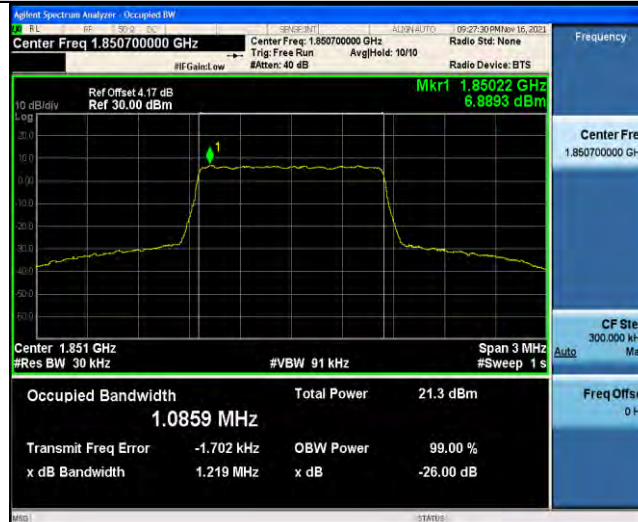
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Band2-1.4MHz-QPSK-19193-6RB#0-1.0841



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Band2-1.4MHz-16QAM-18900-6RB#0-1.0860



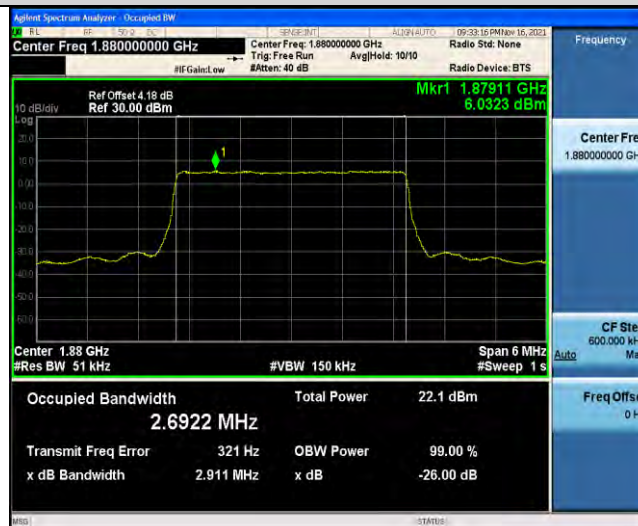
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Band2-3MHz-QPSK-18615-15RB#0-2.6913



Band2-3MHz-QPSK-18900-15RB#0-2.6922



Band2-3MHz-QPSK-19185-15RB#0-2.6905



Band2-3MHz-16QAM-18615-15RB#0-2.6890



Band2-3MHz-16QAM-18900-15RB#0-2.6896



Band2-3MHz-16QAM-19185-15RB#0-2.6908



Band2-5MHz-QPSK-18625-25RB#0-4.4877



Band2-5MHz-QPSK-18900-25RB#0-4.4884



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Band2-5MHz-16QAM-18625-25RB#0-4.4920



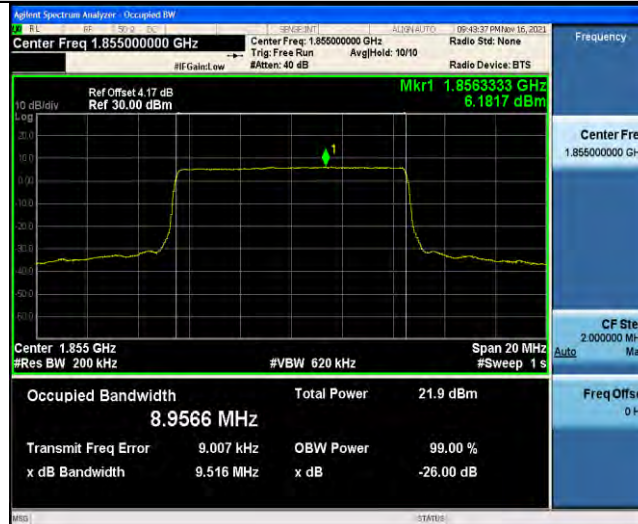
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Band2-10MHz-QPSK-18650-50RB#0-8.9566



Band2-10MHz-QPSK-18900-50RB#0-8.9692



Band2-10MHz-QPSK-19150-50RB#0-8.9669



Band2-10MHz-16QAM-18650-50RB#0-8.9618



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Band2-10MHz-16QAM-19150-50RB#0-8.9723



Band2-15MHz-QPSK-18675-75RB#0-13.424



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Band2-15MHz-QPSK-19125-75RB#0-13.437



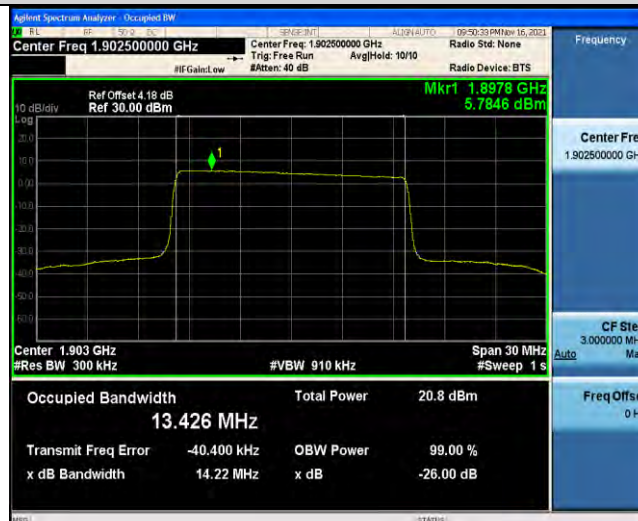
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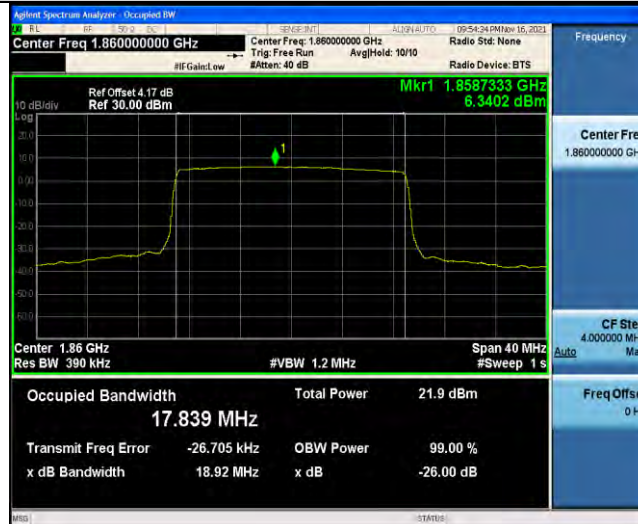
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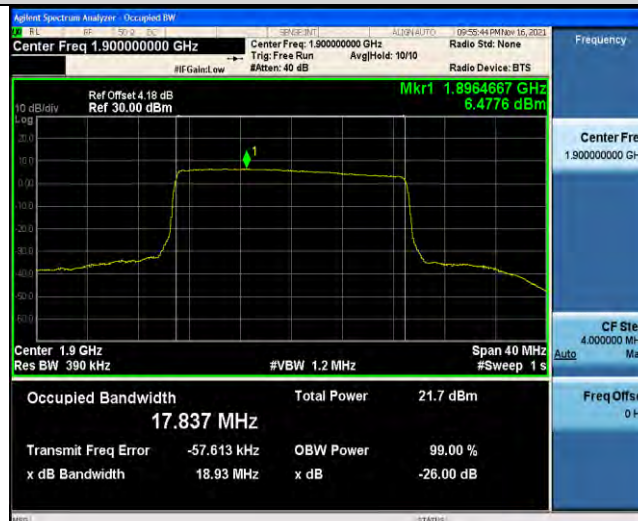
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Band2-20MHz-QPSK-18900-100RB#0-17.940



Band2-20MHz-QPSK-19100-100RB#0-17.837



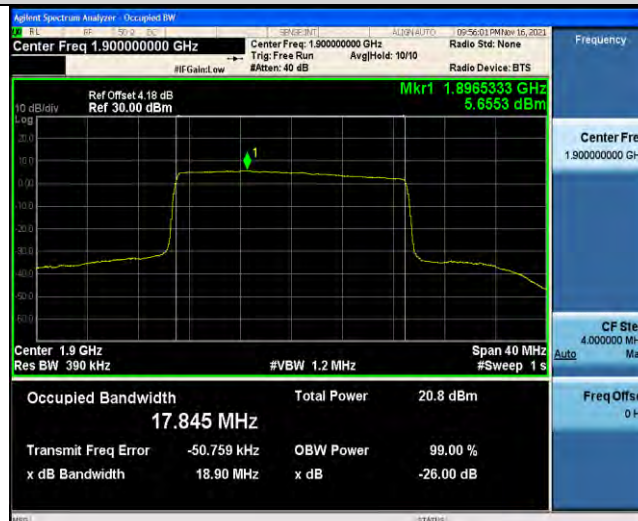
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Band2-20MHz-16QAM-18900-100RB#0-17.949

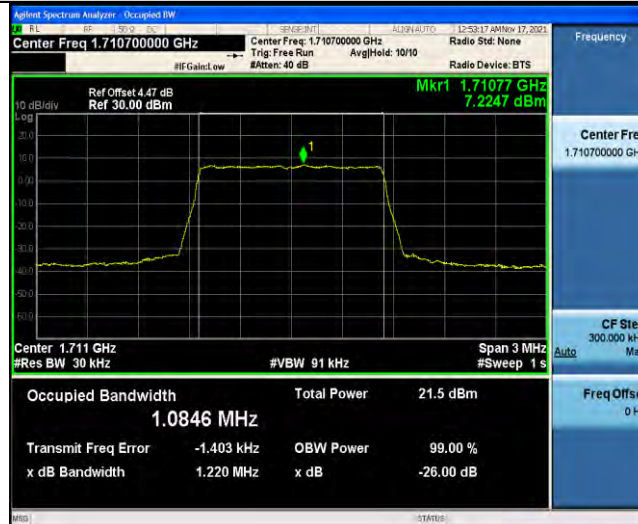


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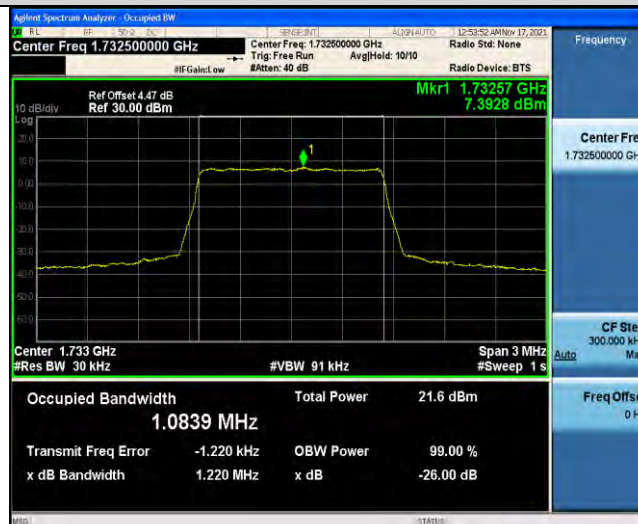


LTE band4 Test Graphs

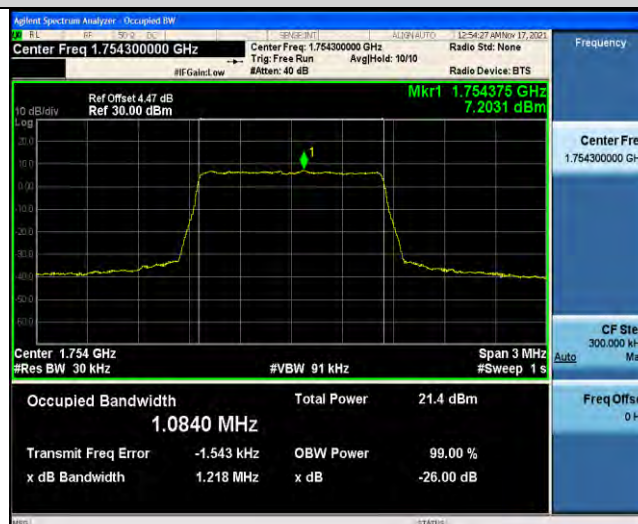
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Band4-1.4MHz-QPSK-20175-6RB#0-1.0839



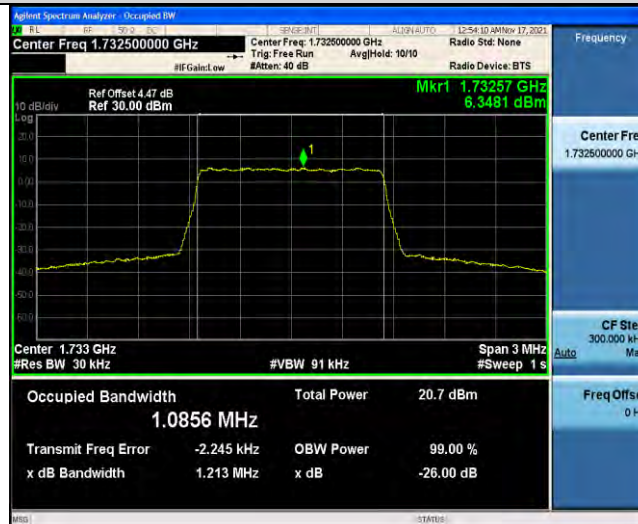
Band4-1.4MHz-QPSK-20393-6RB#0-1.0840



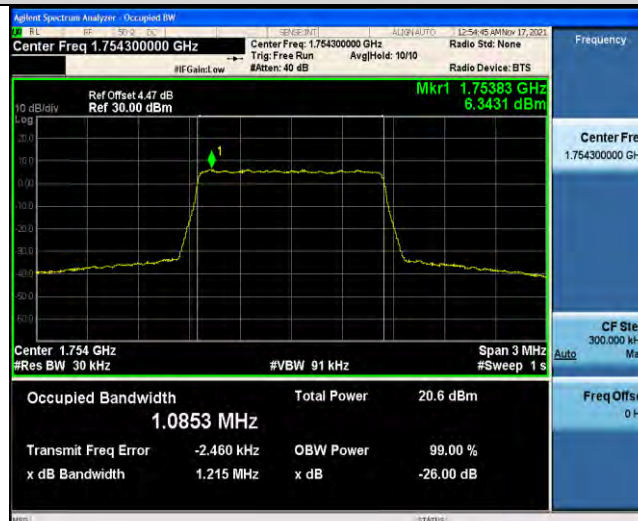
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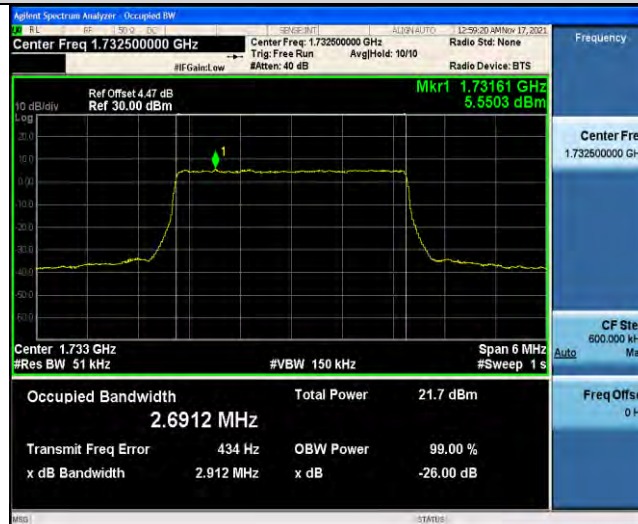
Band4-1.4MHz-16QAM-20393-6RB#0-1.0853



Band4-3MHz-QPSK-19965-15RB#0-2.6922



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Band4-3MHz-QPSK-20385-15RB#0-2.6919



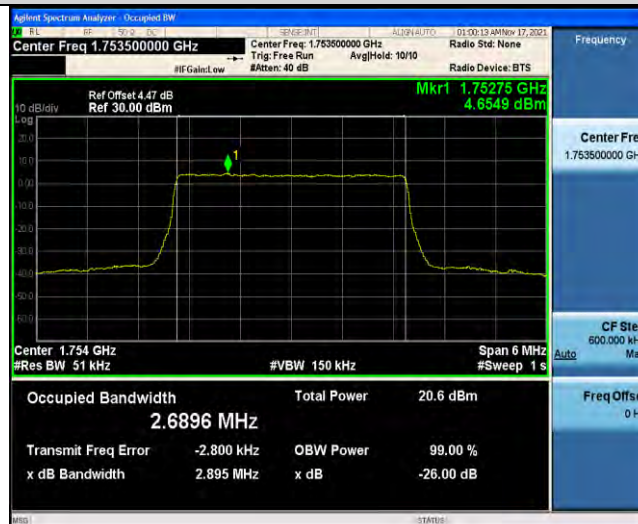
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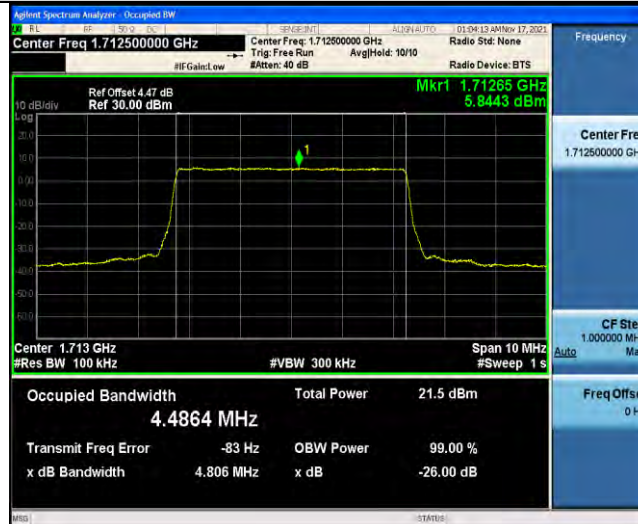
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Band4-3MHz-16QAM-20385-15RB#0-2.6896



Band4-5MHz-QPSK-19975-25RB#0-4.4864



Band4-5MHz-QPSK-20175-25RB#0-4.4863



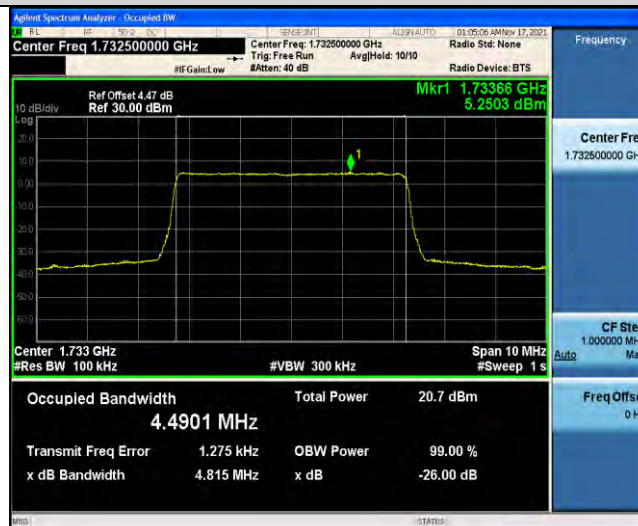
Band4-5MHz-QPSK-20375-25RB#0-4.4858



Band4-5MHz-16QAM-19975-25RB#0-4.4915



Band4-5MHz-16QAM-20175-25RB#0-4.4901



Band4-5MHz-16QAM-20375-25RB#0-4.4898



Band4-10MHz-QPSK-20000-50RB#0-8.9587



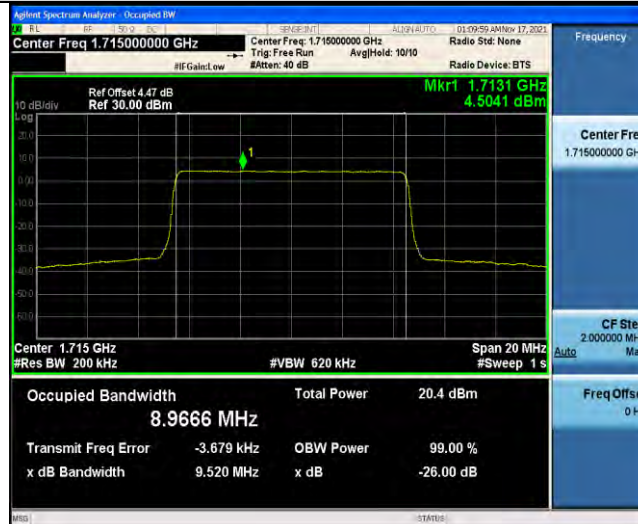
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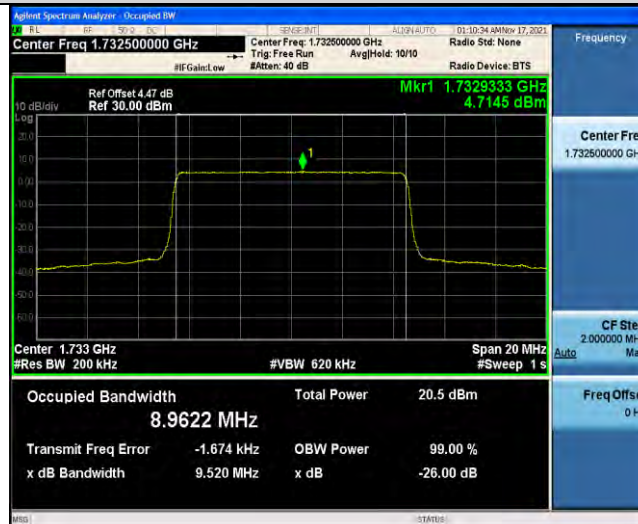
Band4-10MHz-QPSK-20350-50RB#0-8.9558



Band4-10MHz-16QAM-20000-50RB#0-8.9666



Band4-10MHz-16QAM-20175-50RB#0-8.9622



Band4-10MHz-16QAM-20350-50RB#0-8.9597



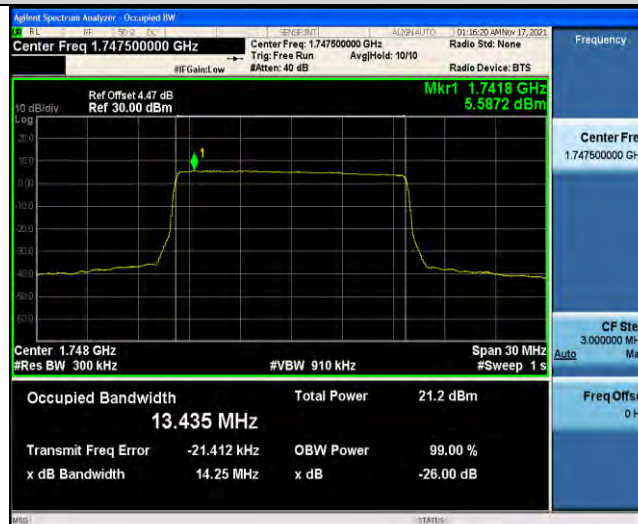
Band4-15MHz-QPSK-20025-75RB#0-13.453



Band4-15MHz-QPSK-20175-75RB#0-13.436



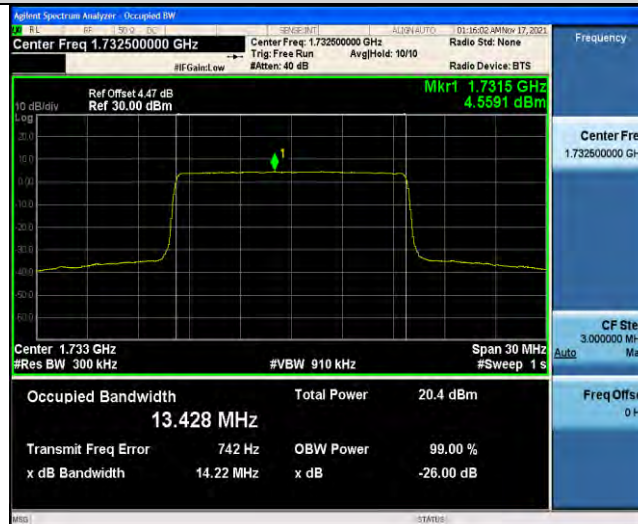
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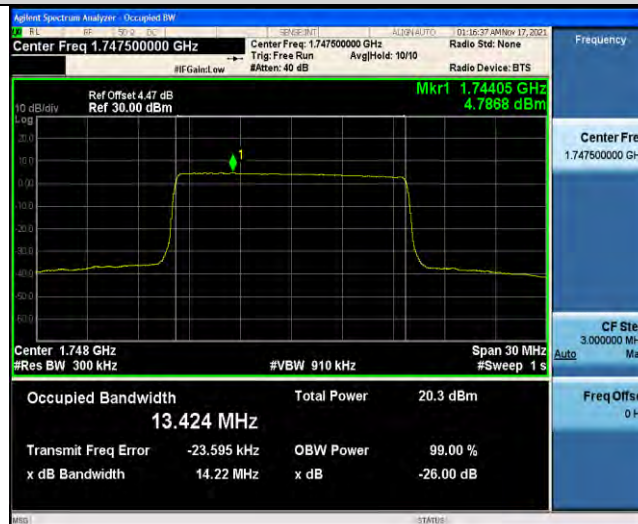
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Band4-15MHz-16QAM-20175-75RB#0-13.428



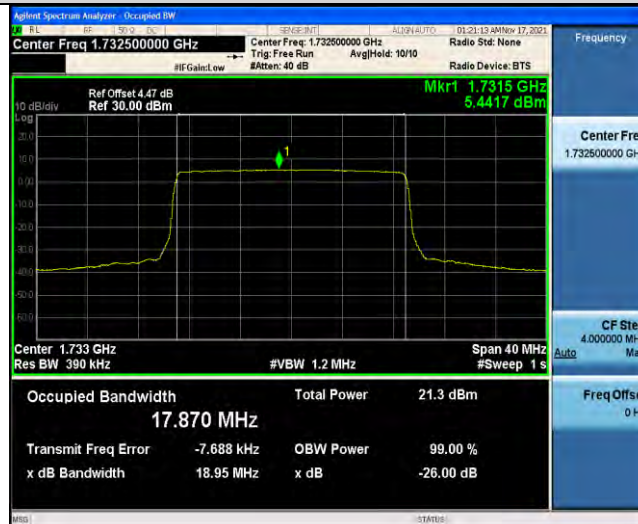
Band4-15MHz-16QAM-20325-75RB#0-13.424



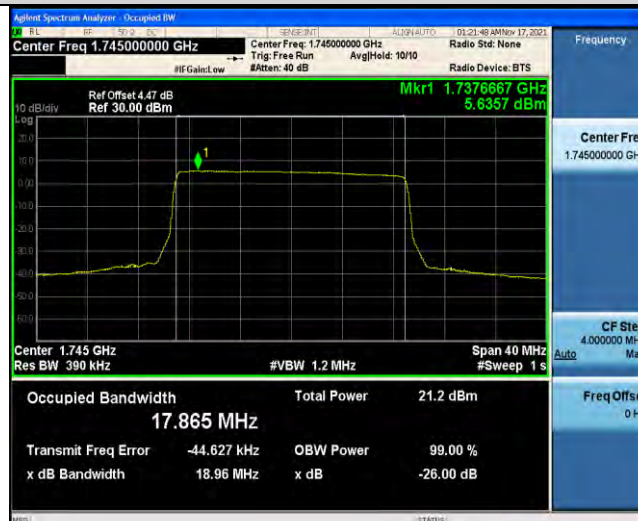
Band4-20MHz-QPSK-20050-100RB#0-17.907



Band4-20MHz-QPSK-20175-100RB#0-17.870



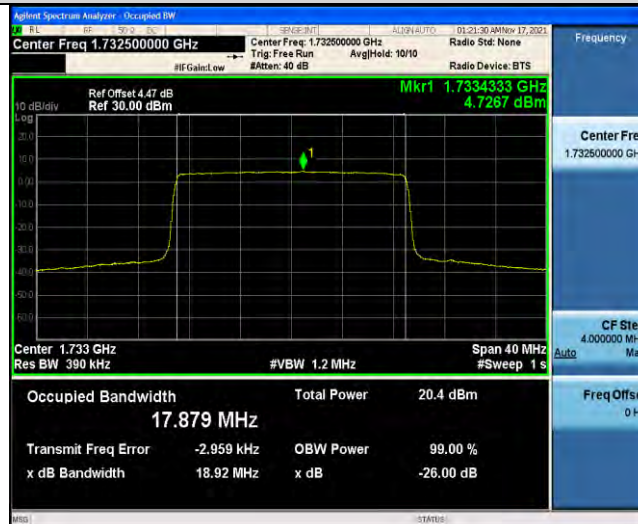
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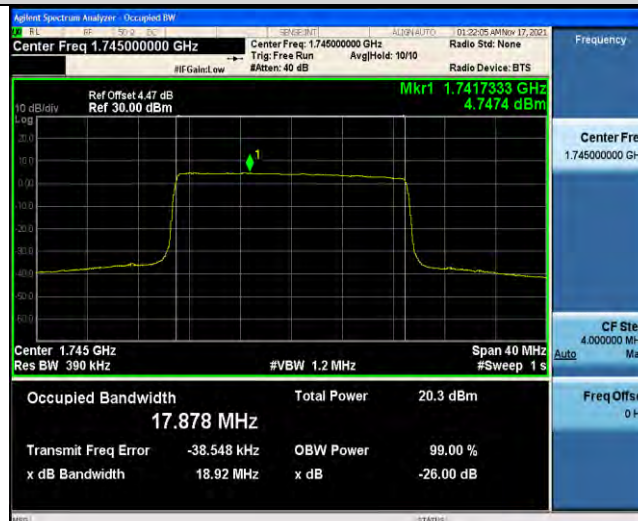
Band4-20MHz-16QAM-20050-100RB#0-17.916



Band4-20MHz-16QAM-20175-100RB#0-17.879



Band4-20MHz-16QAM-20300-100RB#0-17.878

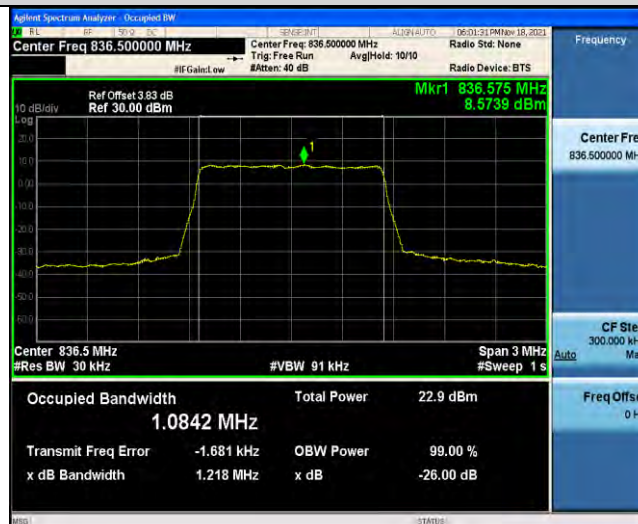


LTE band5 Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0-1.0850



Band5-1.4MHz-QPSK-20525-6RB#0-1.0842



Band5-1.4MHz-QPSK-20643-6RB#0-1.0836



Band5-1.4MHz-16QAM-20407-6RB#0-1.0869



Band5-1.4MHz-16QAM-20525-6RB#0-1.0864



Band5-1.4MHz-16QAM-20643-6RB#0-1.0854



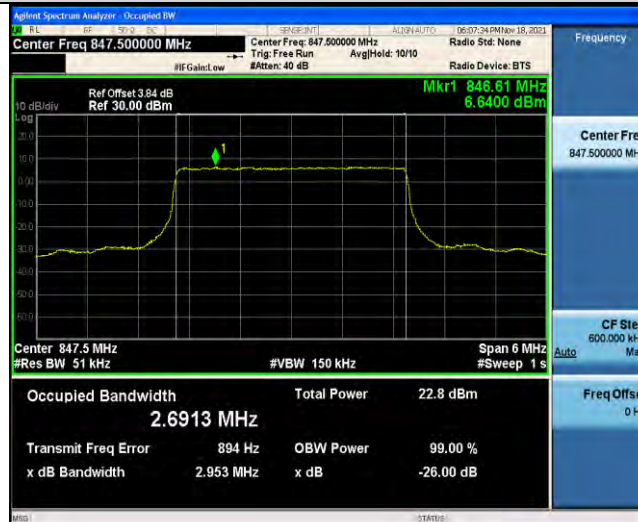
Band5-3MHz-QPSK-20415-15RB#0-2.6936



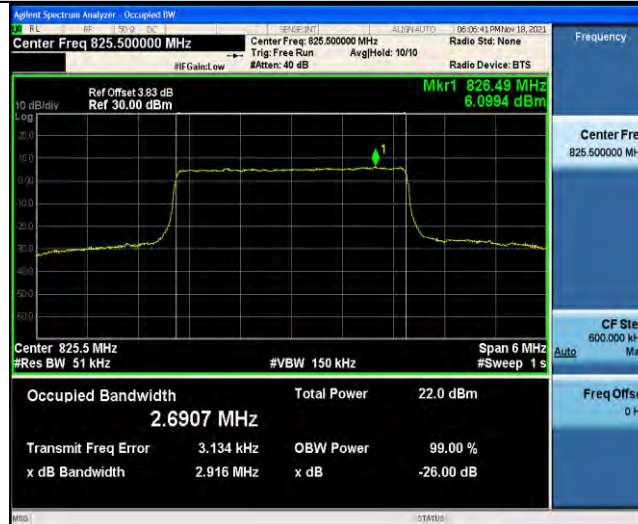
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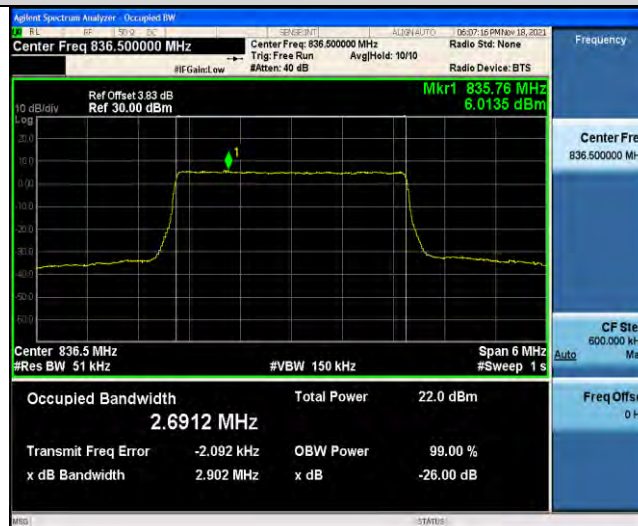
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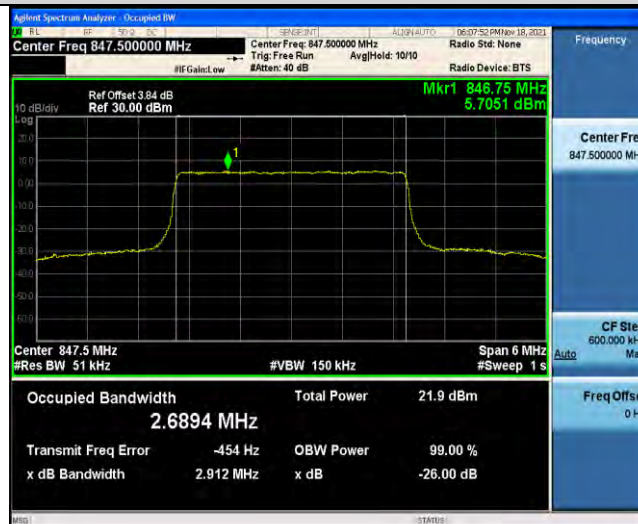
Band5-3MHz-16QAM-20415-15RB#0-2.6907



Band5-3MHz-16QAM-20525-15RB#0-2.6912



Band5-3MHz-16QAM-20635-15RB#0-2.6894



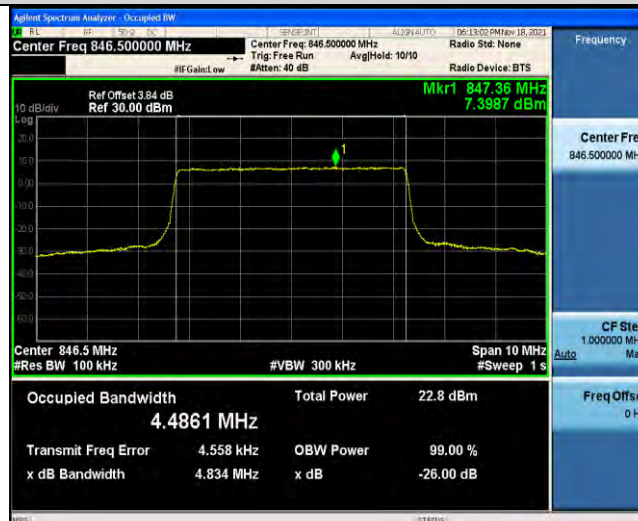
Band5-5MHz-QPSK-20425-25RB#0-4.4832



Band5-5MHz-QPSK-20525-25RB#0-4.4887



Band5-5MHz-QPSK-20625-25RB#0-4.4861



Band5-5MHz-16QAM-20425-25RB#0-4.4900



Band5-5MHz-16QAM-20525-25RB#0-4.4945



Band5-5MHz-16QAM-20625-25RB#0-4.4900



Band5-10MHz-QPSK-20450-50RB#0-8.9259



Band5-10MHz-QPSK-20525-50RB#0-8.9731



Band5-10MHz-QPSK-20600-50RB#0-8.9625



Band5-10MHz-16QAM-20450-50RB#0-8.9298



Band5-10MHz-16QAM-20525-50RB#0-8.9776



Band5-10MHz-16QAM-20600-50RB#0-8.9653



LTE band7 Test Graphs

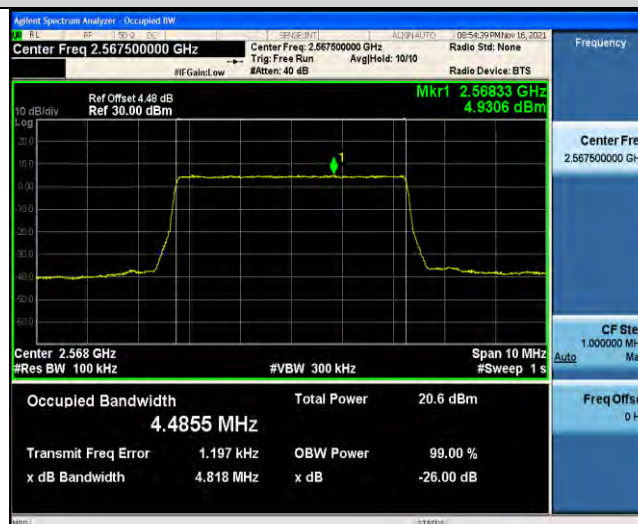
Band7-5MHz-QPSK-20775-25RB#0-4.4881



Band7-5MHz-QPSK-21100-25RB#0-4.4860



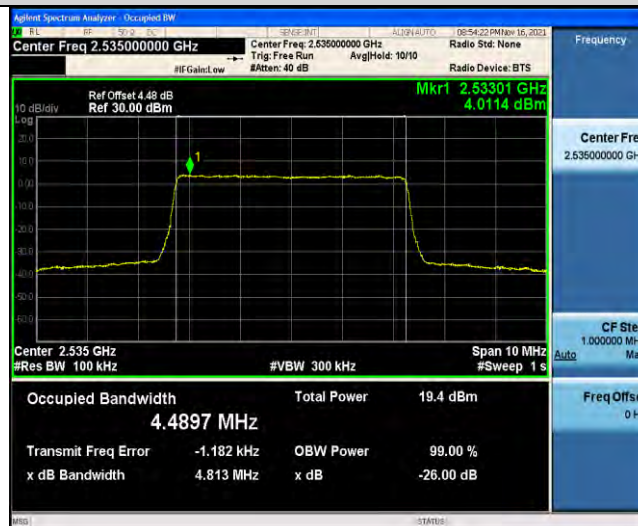
Band7-5MHz-QPSK-21425-25RB#0-4.4855



Band7-5MHz-16QAM-20775-25RB#0-4.4917



Band7-5MHz-16QAM-21100-25RB#0-4.4897



Band7-5MHz-16QAM-21425-25RB#0-4.4925



Band7-10MHz-QPSK-20800-50RB#0-8.9648



Band7-10MHz-QPSK-21100-50RB#0-8.9575



Band7-10MHz-QPSK-21400-50RB#0-8.9558



Band7-10MHz-16QAM-20800-50RB#0-8.9741



Band7-10MHz-16QAM-21100-50RB#0-8.9644



Band7-10MHz-16QAM-21400-50RB#0-8.9624



Band7-15MHz-QPSK-20825-75RB#0-13.460



Band7-15MHz-QPSK-21100-75RB#0-13.438



Band7-15MHz-QPSK-21375-75RB#0-13.439



Band7-15MHz-16QAM-20825-75RB#0-13.449



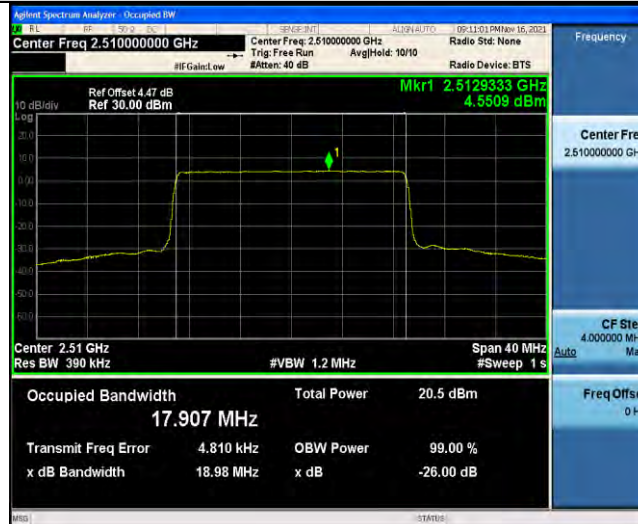
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Band7-15MHz-16QAM-21375-75RB#0-13.431



Band7-20MHz-QPSK-20850-100RB#0-17.907



Band7-20MHz-QPSK-21100-100RB#0-17.872



Band7-20MHz-QPSK-21350-100RB#0-17.889



Band7-20MHz-16QAM-20850-100RB#0-17.920



Band7-20MHz-16QAM-21100-100RB#0-17.888



Band7-20MHz-16QAM-21350-100RB#0-17.902

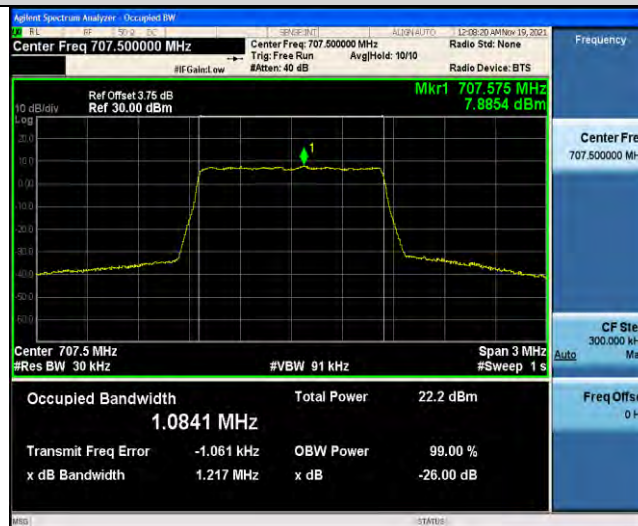


LTE band12 Test Graphs

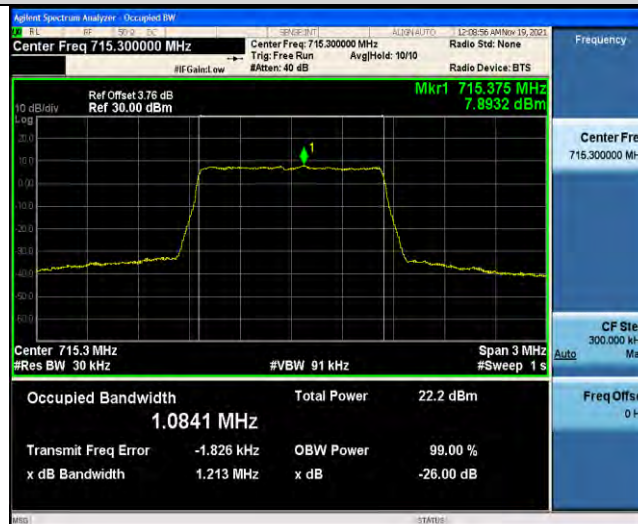
Band12-1.4MHz-QPSK-23017-6RB#0-1.0849



Band12-1.4MHz-QPSK-23095-6RB#0-1.0841



Band12-1.4MHz-QPSK-23173-6RB#0-1.0841



Band12-1.4MHz-16QAM-23017-6RB#0-1.0856



Band12-1.4MHz-16QAM-23095-6RB#0-1.0856



Band12-1.4MHz-16QAM-23173-6RB#0-1.0850



Band12-3MHz-QPSK-23025-15RB#0-2.6896



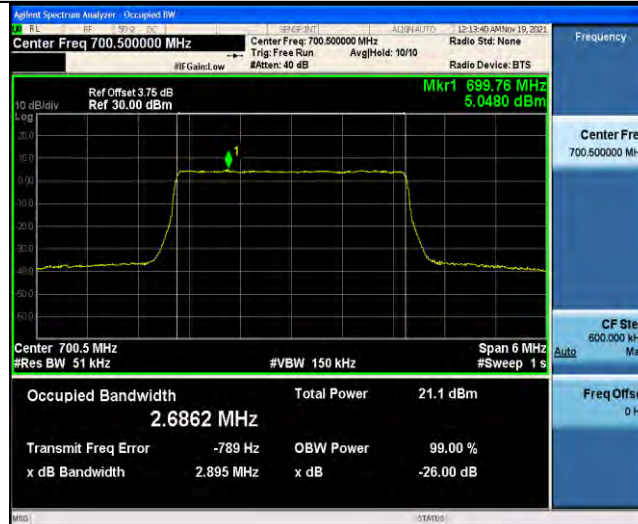
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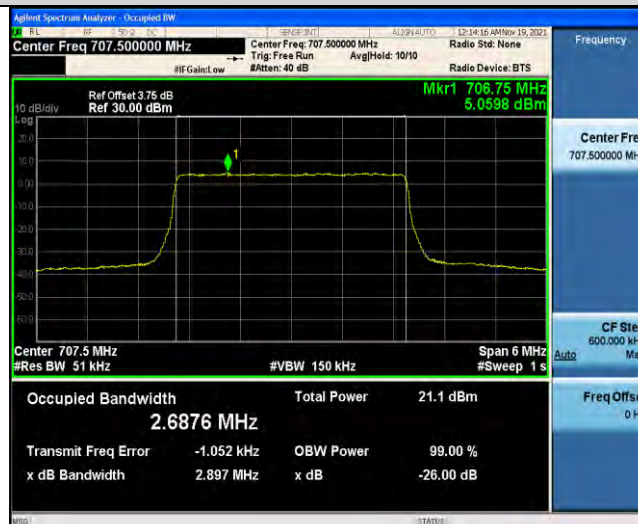
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Band12-3MHz-16QAM-23025-15RB#0-2.6862



Band12-3MHz-16QAM-23095-15RB#0-2.6876



Band12-3MHz-16QAM-23165-15RB#0-2.6880



Band12-5MHz-QPSK-23035-25RB#0-4.4836



Band12-5MHz-QPSK-23095-25RB#0-4.4791



Band12-5MHz-QPSK-23155-25RB#0-4.4826



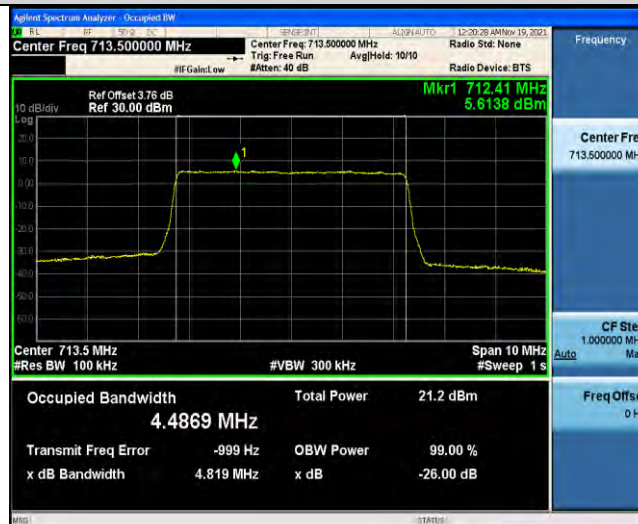
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Band12-5MHz-16QAM-23095-25RB#0-4.4841



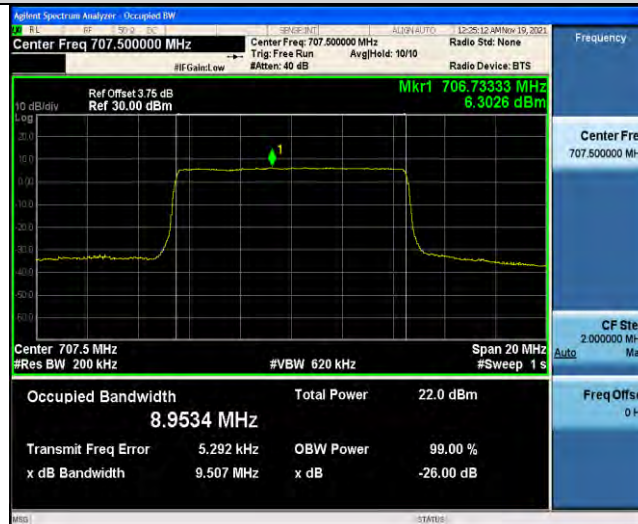
Band12-5MHz-16QAM-23155-25RB#0-4.4869



Band12-10MHz-QPSK-23060-50RB#0-8.9611



Band12-10MHz-QPSK-23095-50RB#0-8.9534



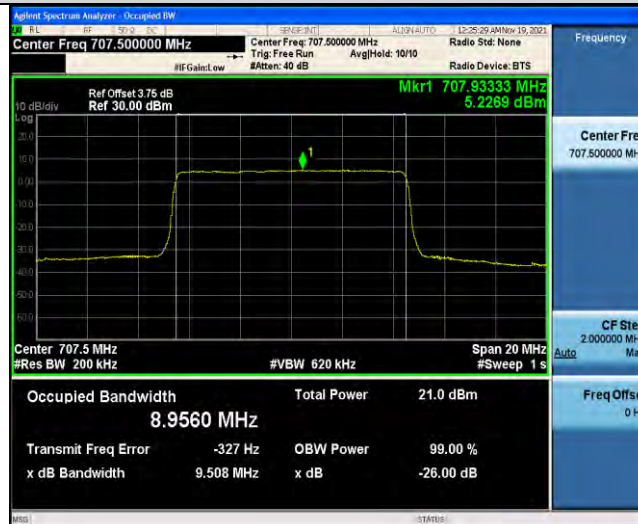
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Band12-10MHz-16QAM-23060-50RB#0-8.9609



Band12-10MHz-16QAM-23095-50RB#0-8.9560



Band12-10MHz-16QAM-23130-50RB#0-8.9494

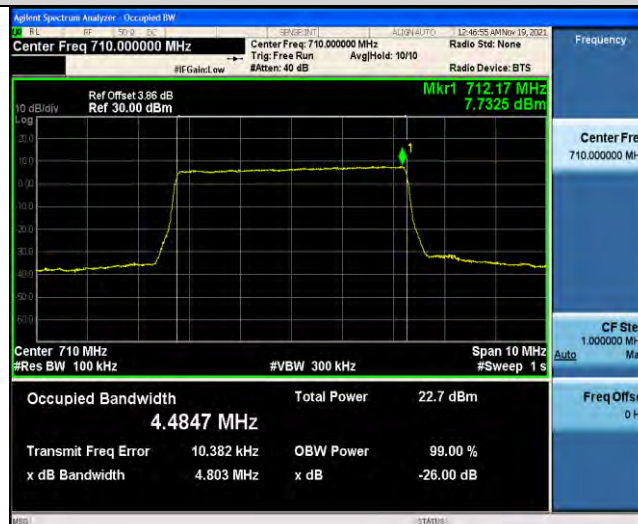


LTE band17 Test Graphs

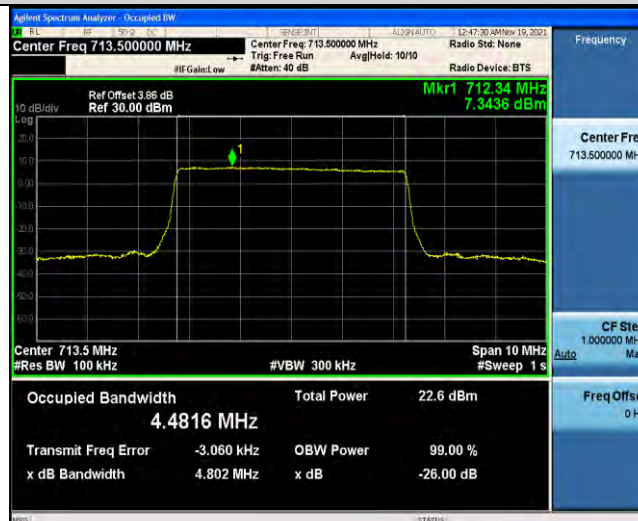
Band17-5MHz-QPSK-23755-25RB#0-4.4920



Band17-5MHz-QPSK-23790-25RB#0-4.4847



Band17-5MHz-QPSK-23825-25RB#0-4.4816



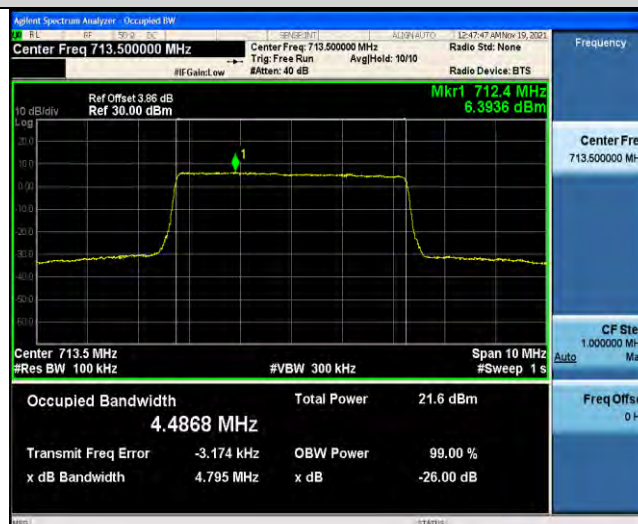
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Band17-5MHz-16QAM-23790-25RB#0-4.4892



Band17-5MHz-16QAM-23825-25RB#0-4.4868



Band17-10MHz-QPSK-23780-50RB#0-8.9619



Band17-10MHz-QPSK-23790-50RB#0-8.9371



Band17-10MHz-QPSK-23800-50RB#0-8.9281



Band17-10MHz-16QAM-23780-50RB#0-8.9706



Band17-10MHz-16QAM-23790-50RB#0-8.9453



Band17-10MHz-16QAM-23800-50RB#0-8.9318

