

































Appendix F: Frequency Stability

Test Result

LTE Band 42 part:

Reference Frequency: LTE Band 42 (10MHz) Middle channel=42590 Frequency=3550.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-13.45	-0.003843	Within authorized band for Band 42	Pass
	-20	-9.53	-0.002723		
	-10	-11.03	-0.003151		
	0	-10.74	-0.003069		
	10	-12.52	-0.003577		
	20	-11.76	-0.003360		
	30	-15.75	-0.004500		
	40	-13.10	-0.003743		
	50	-12.87	-0.003677		
16QAM					
3.91	-30	-14.35	-0.004100	Within authorized band for Band 42	Pass
	-20	-12.52	-0.003577		
	-10	-15.34	-0.004383		
	0	-12.50	-0.003571		
	10	-9.27	-0.002649		
	20	-12.23	-0.003494		
	30	-13.92	-0.003977		
	40	-15.99	-0.004569		
	50	-12.69	-0.003626		
64QAM					
3.91	-30	-7.95	-0.002271	Within authorized band for Band 66	Pass
	-20	-13.49	-0.003854		
	-10	-6.87	-0.001963		
	0	-13.09	-0.003740		
	10	-14.09	-0.004026		
	20	-11.77	-0.003363		
	30	-14.73	-0.004209		
	40	-14.85	-0.004243		
	50	-10.00	-0.002857		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-8.81	-0.002517	Within authorized band for Band 42	Pass
	3.91	-18.78	-0.005366		
	4.50	-16.31	-0.004660		
16QAM					
25	3.45	-15.65	-0.004471	Within authorized band for Band 42	Pass
	3.91	-12.46	-0.003560		
	4.50	-12.59	-0.003597		
64QAM					
25	3.45	-14.56	-0.004160	Within authorized band for Band 42	Pass
	3.91	-13.60	-0.003886		
	4.50	-10.54	-0.003011		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
42(3450-3550)	20MHz	QPSK	42590	100RB#0	PASS
42(3450-3550)	20MHz	16QAM	42590	100RB#0	PASS
42(3450-3550)	20MHz	64QAM	42590	100RB#0	PASS

Test Graphs

