



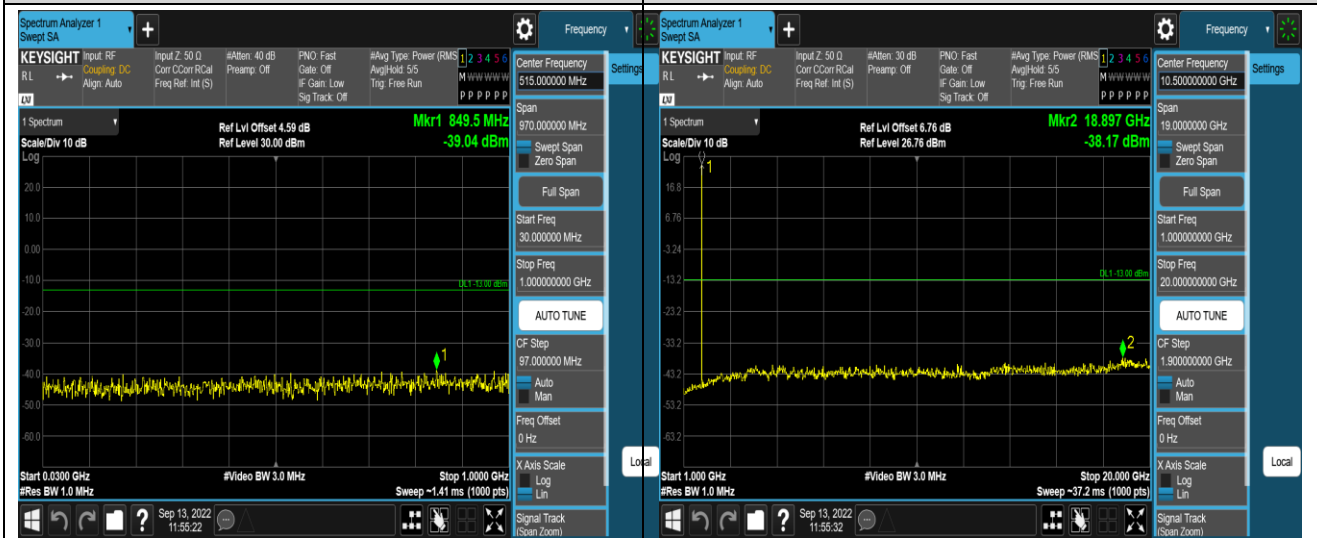
Band66-1.4MHz-16QAM-131979-1RB#0-Range1:3
0~1000MHz

Band66-1.4MHz-16QAM-131979-1RB#0-Range2:100
0~20000MHz



Band66-1.4MHz-16QAM-132322-1RB#0-Range1:3
0~1000MHz

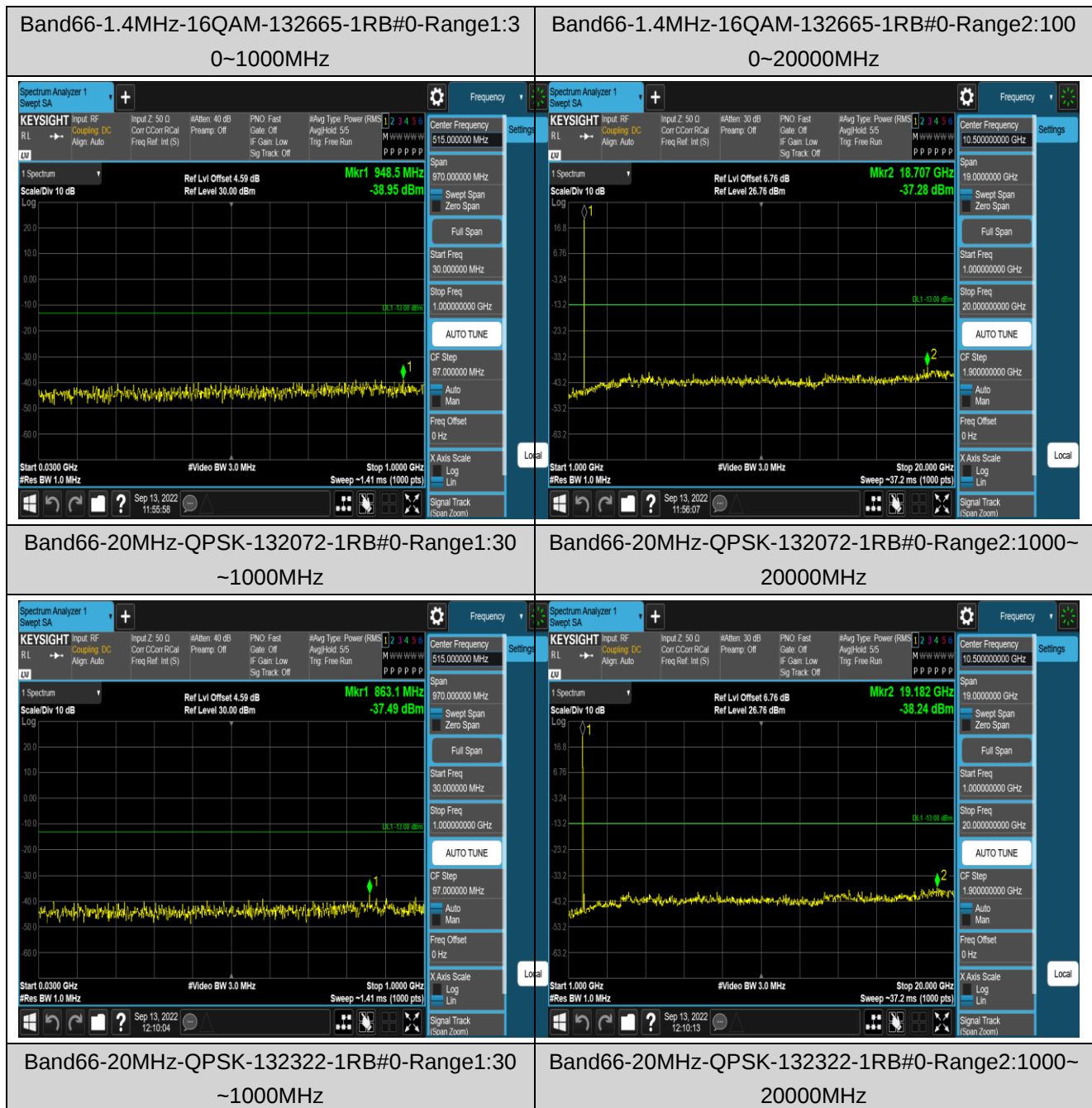
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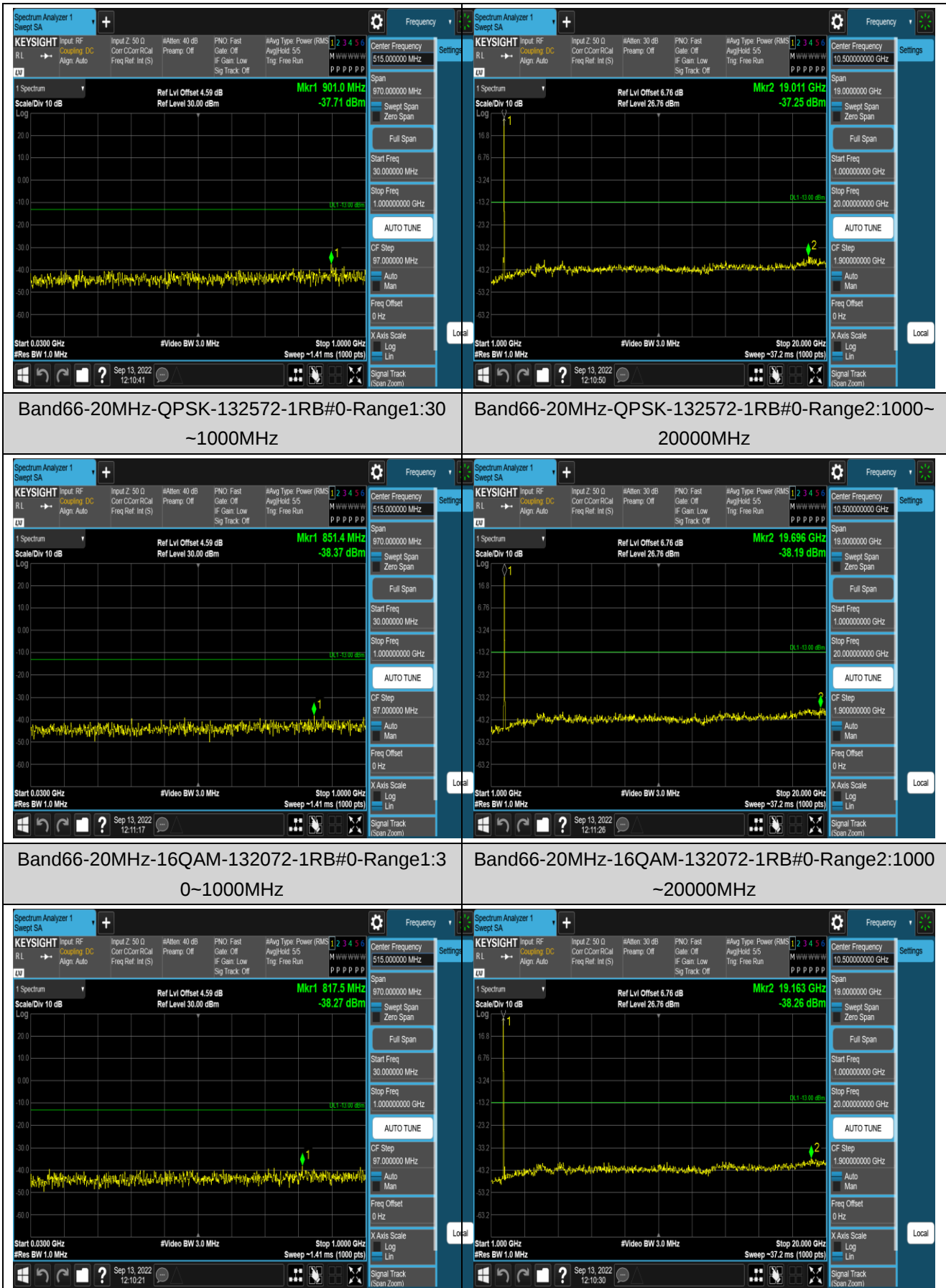


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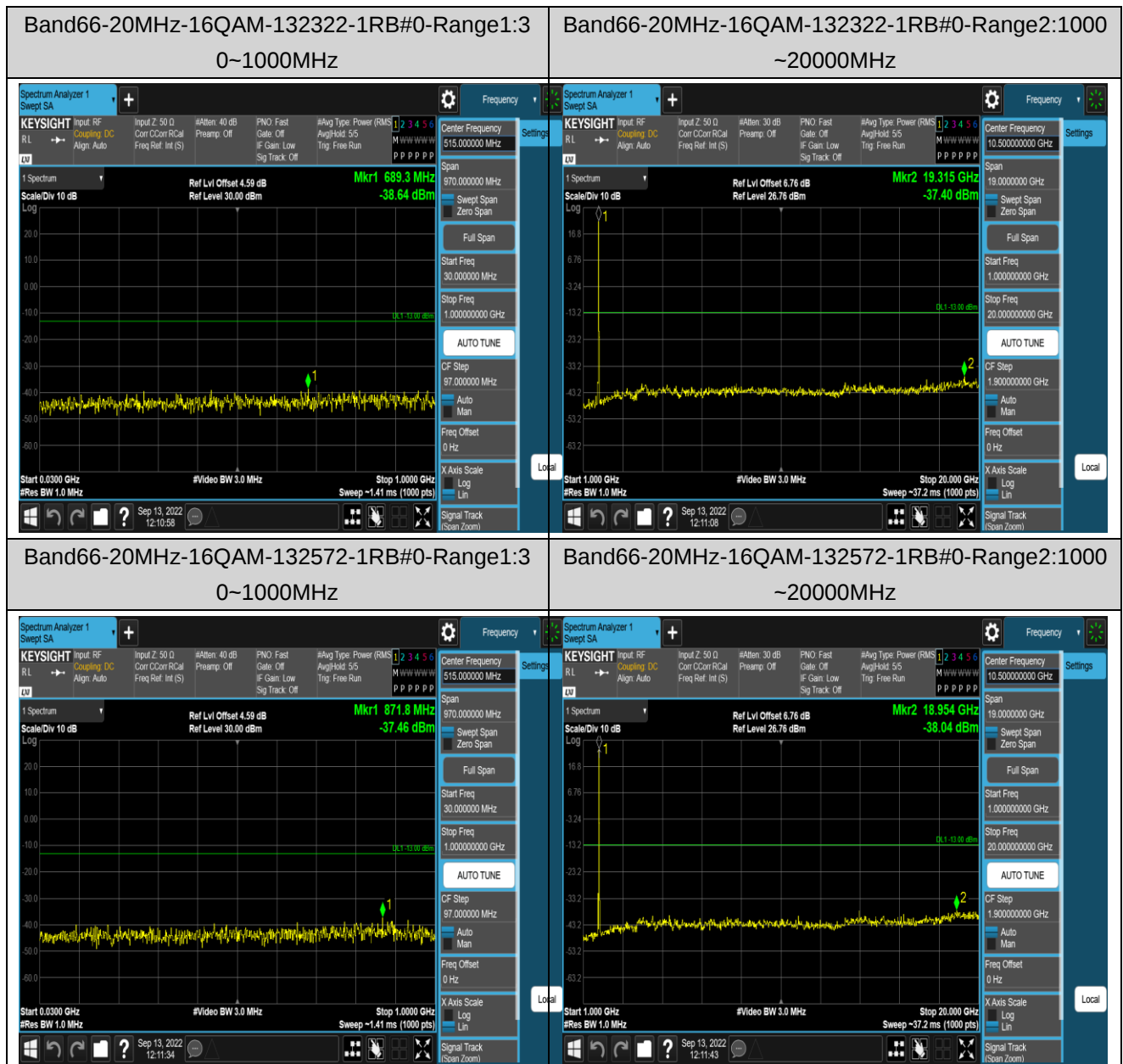




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Appendix F: Frequency Stability

Test Result

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	12.12	0.006447	Within authorized band for Band 2	Pass
	-20	26.38	0.014032		
	-10	20.93	0.011133		
	0	14.93	0.007941		
	10	24.85	0.013218		
	20	33.35	0.017739		
	30	24.79	0.013186		
	40	17.64	0.009383		
	50	17.47	0.009293		
16QAM					
3.85	-30	13.13	0.006984	Within authorized band for Band 2	Pass
	-20	43.77	0.023282		
	-10	47.42	0.025223		
	0	54.25	0.028856		
	10	24.06	0.012798		
	20	36.28	0.019298		

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	1.54	0.001841	±2.5	Pass
	-20	1.89	0.002259		
	-10	-3.72	-0.004447		
	0	-5.56	-0.006647		
	10	-9.91	-0.011847		
	20	-7.15	-0.008548		
	30	-10.51	-0.012564		
	40	-7.17	-0.008571		
	50	-11.47	-0.013712		
16QAM					
3.85	-30	27.37	0.032720	±2.5	Pass
	-20	40.00	0.047818		
	-10				

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-30.37	-0.011980	Within authorized band for Band 7	Pass
	-20	-22.40	-0.008836		
	-10	4.16	0.001641		
	0	23.37	0.009219		
	10	47.11	0.018584		
	20	16.58	0.006540		
	30	26.45	0.010434		
	40	39.40	0.015542		
	50	44.88	0.017704		
16QAM					
3.85	-30	35.31	0.013929	Within authorized band for Band 7	Pass
	-20				

LTE Band 12 part:

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-23.13	-0.032693	Within authorized band for Band 12	Pass
	-20	-29.57	-0.041795		
	-10	-37.55	-0.053074		
	0	-42.04	-0.059420		
	10	-48.29	-0.068254		
	20	-2.63	-0.003717		
	30	-8.08	-0.011420		
	40	-10.40	-0.014700		
	50	-15.98	-0.022587		
16QAM					
3.85	-30	4.92	0.006954	Within authorized band for Band 12	Pass
	-20				

LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-27.08	-0.038141	Within authorized band for Band 17	Pass
	-20	-17.62	-0.024817		
	-10	-20.08	-0.028282		
	0	-24.85	-0.035000		
	10	-26.65	-0.037535		
	20	-26.09	-0.036746		
	30	-29.14	-0.041042		
	40	-31.99	-0.045056		
	50	-32.89	-0.046324		
16QAM					
3.85	-30	-11.36	-0.016000	Within authorized band for Band 17	Pass

LTE Band 66 part:

Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-5.51	-0.003158	Within authorized band for Band 66	Pass
	-20	-11.44	-0.006556		
	-10	-12.36	-0.007083		
	0	-12.95	-0.007421		
	10	-9.77	-0.005599		
	20	-11.66	-0.006682		
	30	-9.67	-0.005542		
	40	-11.10	-0.006361		
	50	-10.86	-0.006223		
16QAM					
3.85	-30	29.74	0.017043	Within authorized band for Band 66	

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band66	20MHz	QPSK	132322	100RB#0	PASS	PASS
Band66	20MHz	16QAM	132322	100RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

