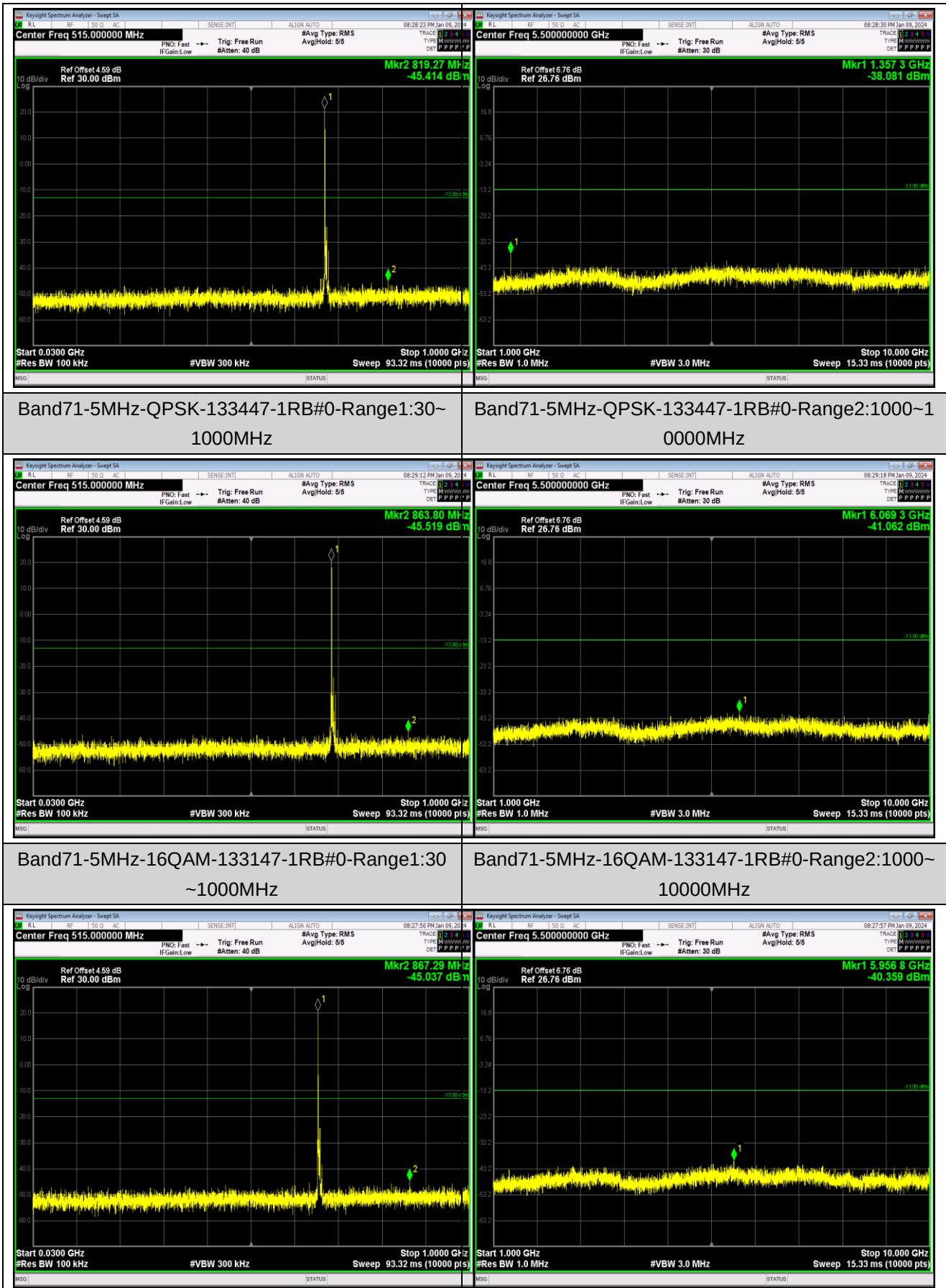


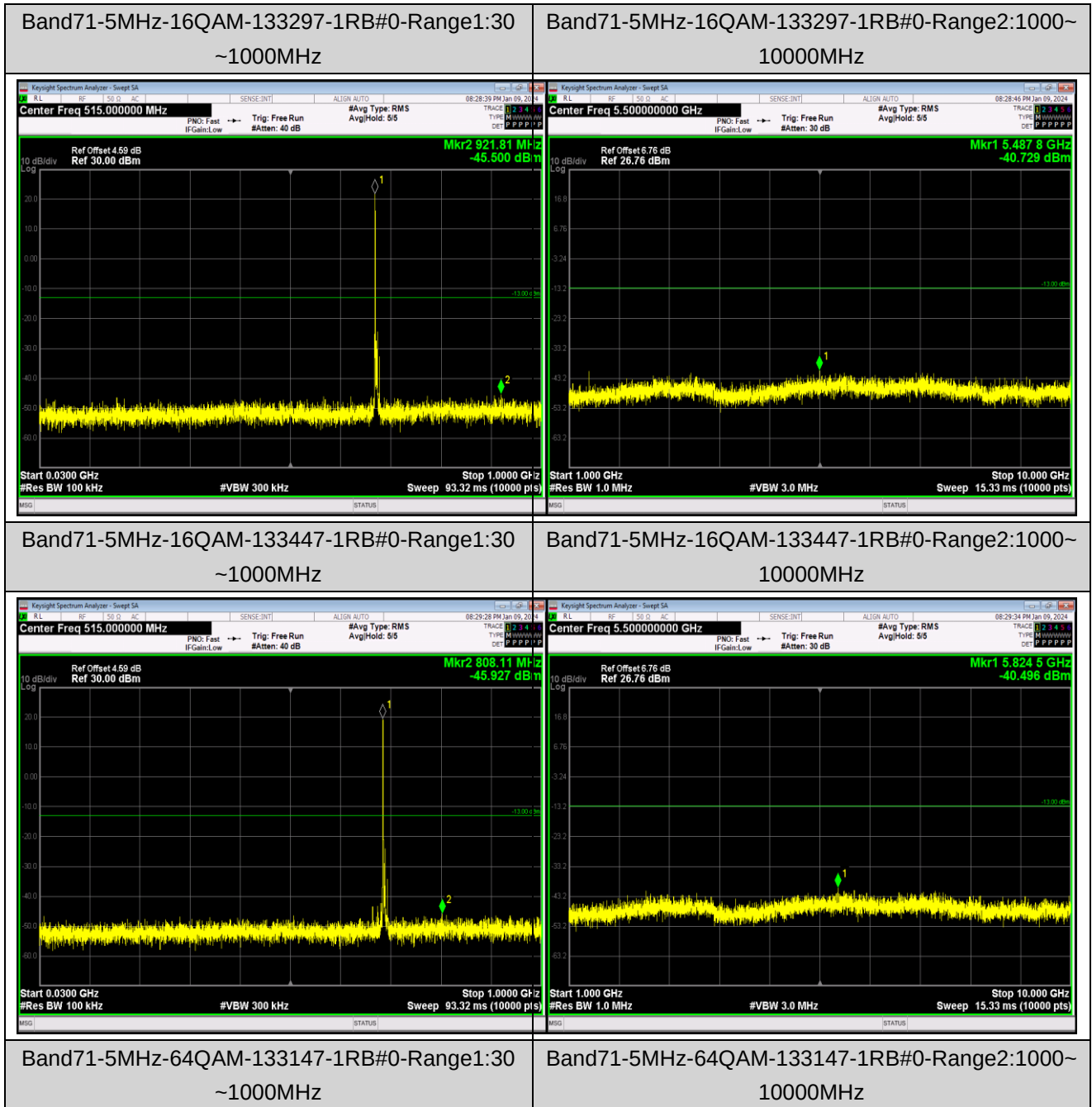


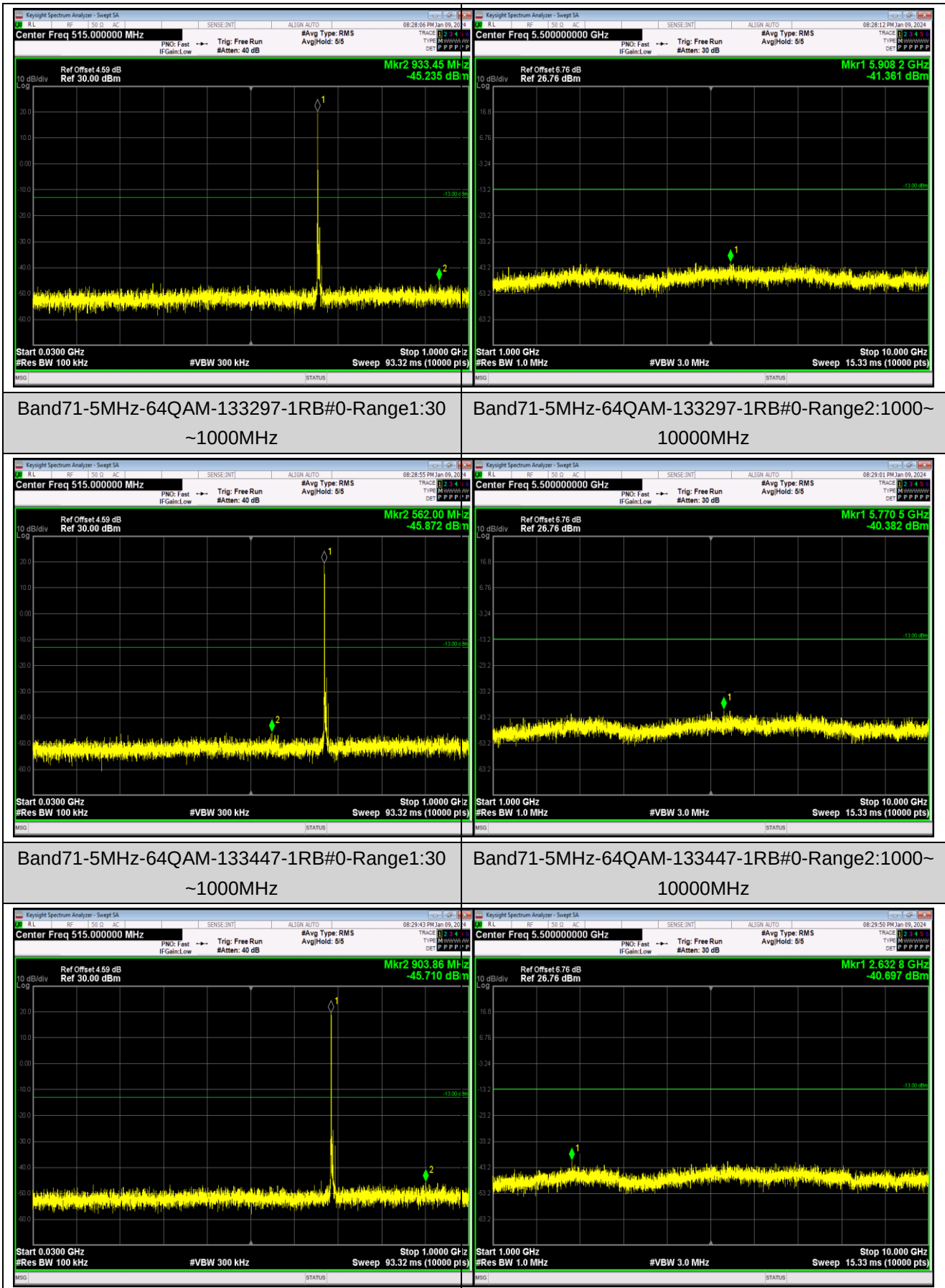
Band71-5MHz-QPSK-133447-1RB#0-Range1:30~1000MHz

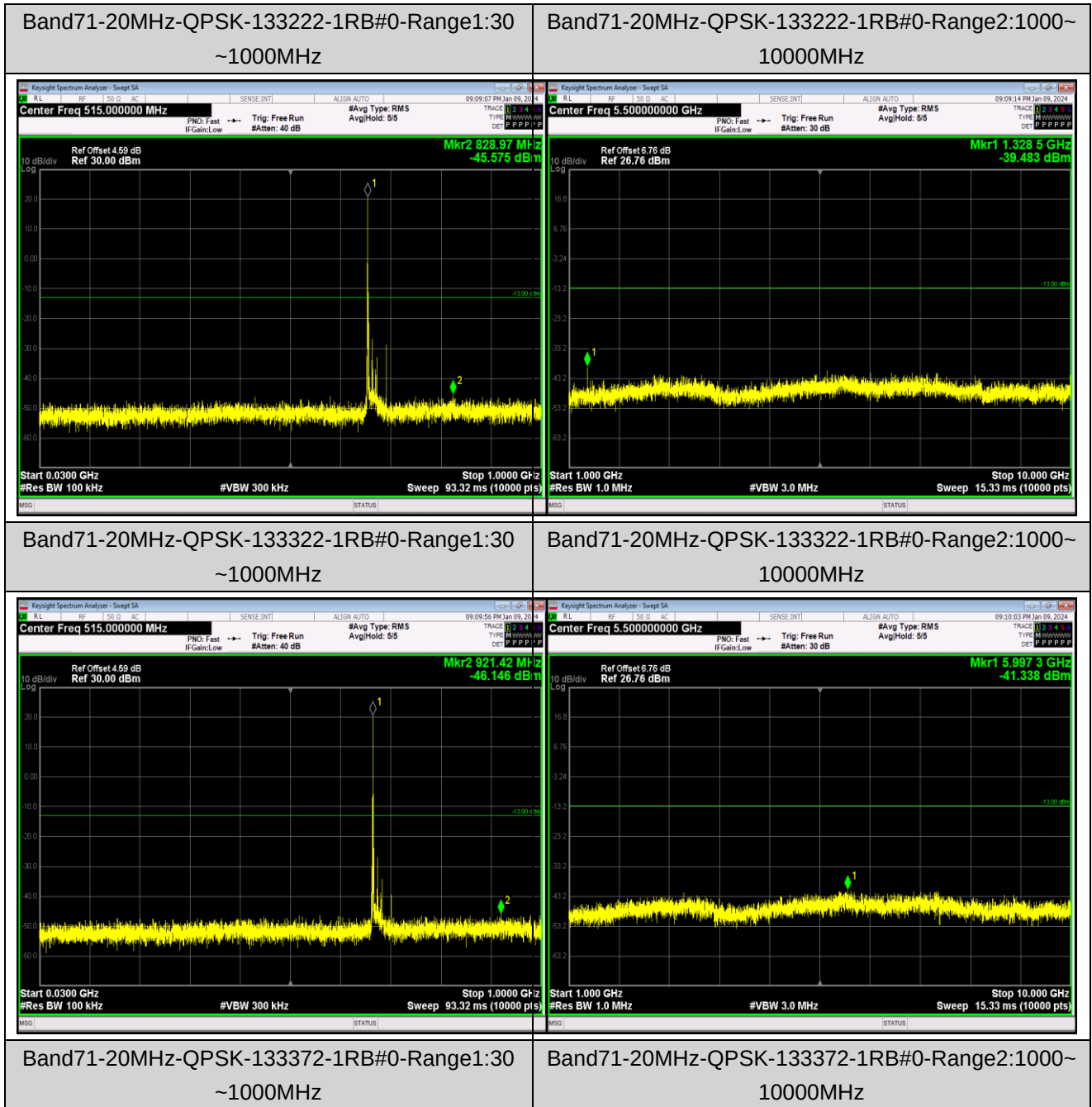
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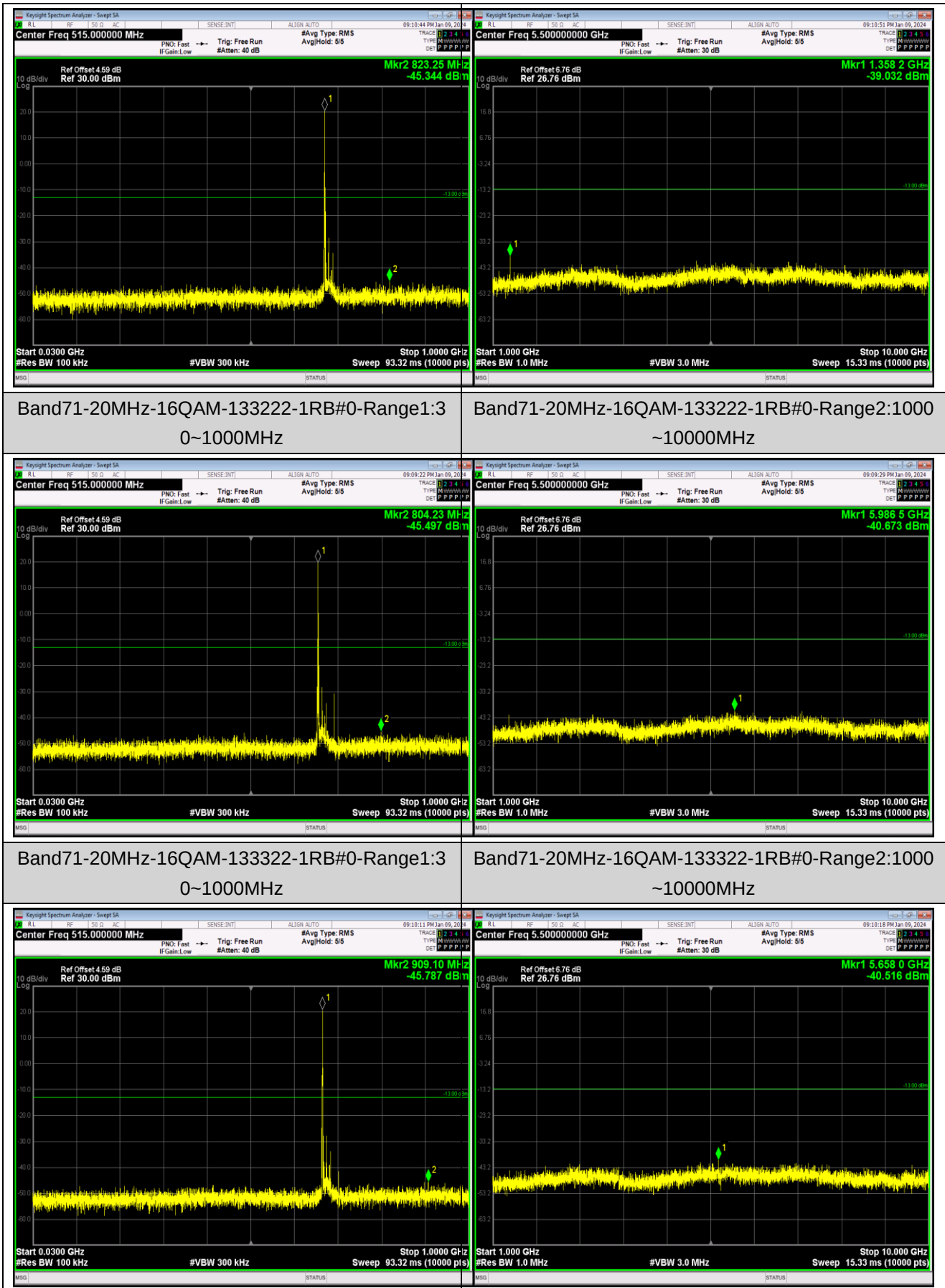
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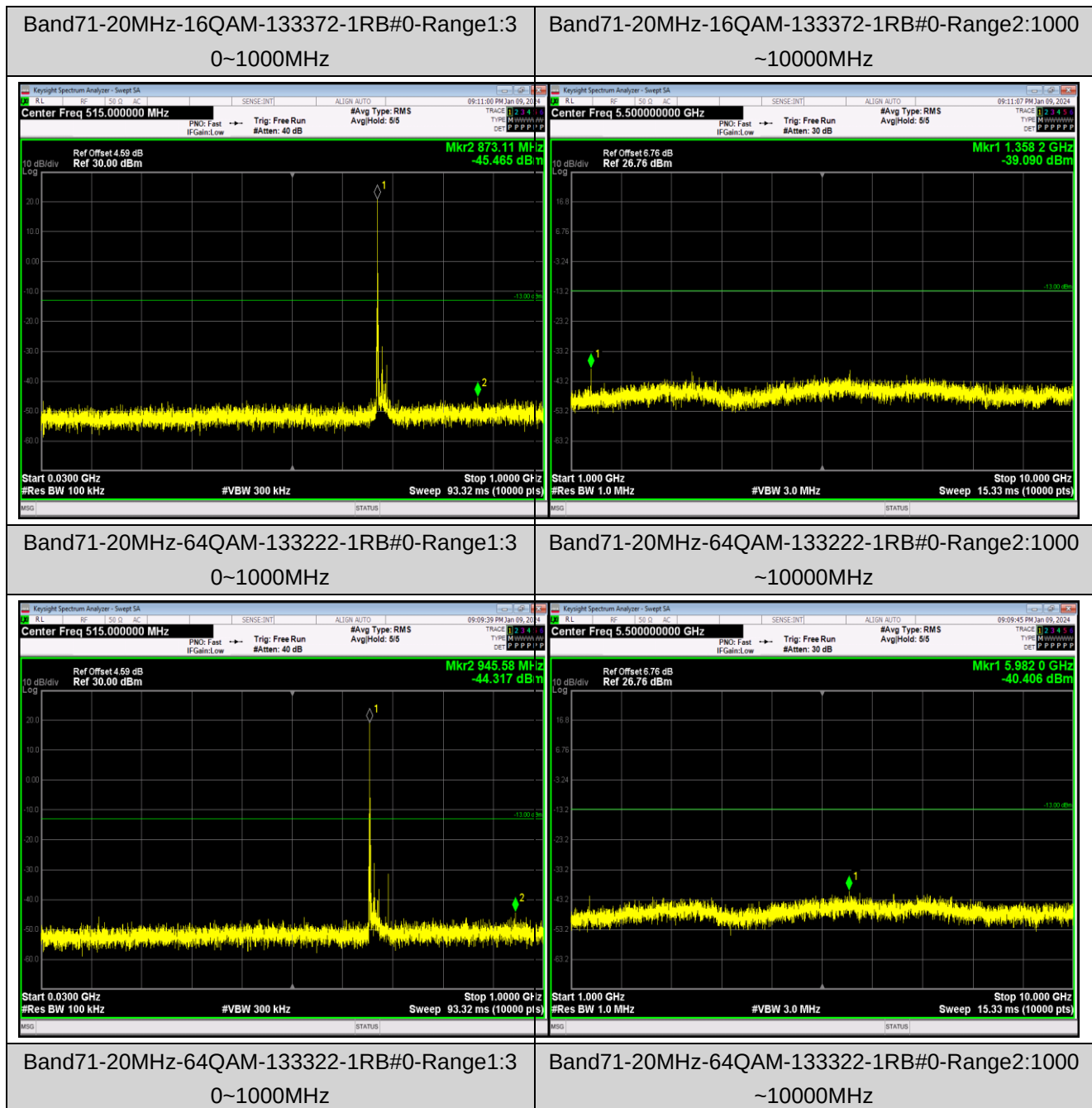
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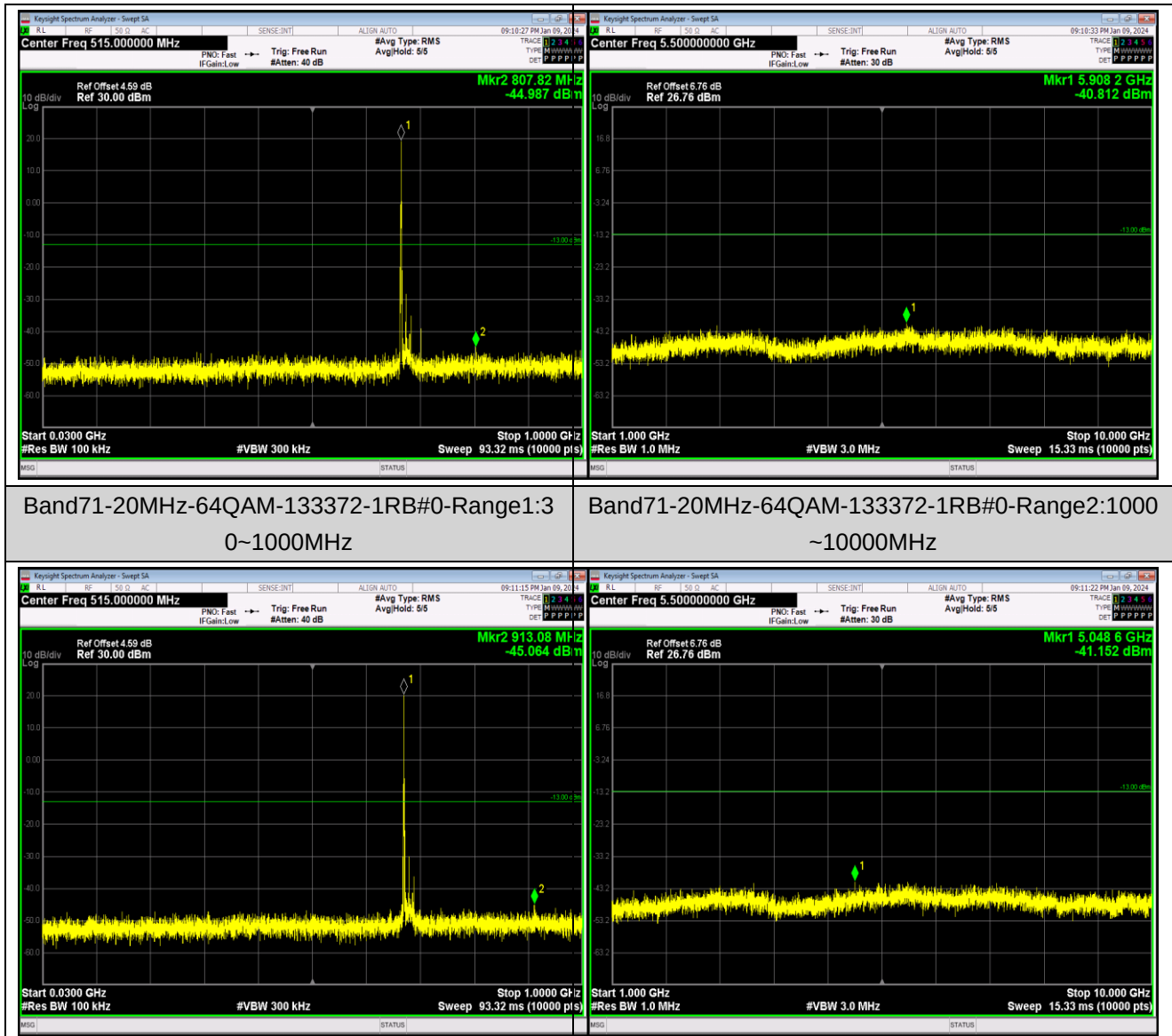












Appendix F: Frequency Stability

Test Result

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-14.05	-0.007473	Within authorized band for Band 2	Pass
	-20	-10.81	-0.005750		
	-10	-13.42	-0.007138		
	0	-3.85	-0.002048		
	10	-9.64	-0.005128		
	20	-12.55	-0.006676		
	30	-13.30	-0.007074		
	40	-7.77	-0.004133		
	50	-13.89	-0.007388		
16QAM					
3.80	-30	-13.02	-0.006926	Within authorized band for Band 2	Pass
	-20	-8.63	-0.004590		
	-10	-10.46	-0.005564		
	0	-11.42	-0.006074		
	10	-13.69	-0.007282		
	20	-15.05	-0.008005		
	30	-11.90	-0.006330		
	40	-9.56	-0.005085		
	50	-8.70	-0.004628		
64QAM					
3.80	-30	-12.85	-0.006835	Within authorized band for Band 2	Pass
	-20	-11.76	-0.006255		
	-10	-14.52	-0.007723		
	0	-7.91	-0.004207		
	10	-15.94	-0.008479		
	20	-10.96	-0.005830		
	30	-11.24	-0.005979		
	40	-14.55	-0.007739		
	50	-10.87	-0.005782		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-11.01	-0.005856	Within authorized band for Band 2	Pass
	3.80	-12.15	-0.006463		
	4.35	-13.15	-0.006995		
16QAM					
25	3.50	-8.13	-0.004324	Within authorized band for Band 2	Pass
	3.80	-11.24	-0.005979		
	4.35	-12.27	-0.006527		
64QAM					
25	3.50	-12.65	-0.006729	Within authorized band for Band 2	Pass
	3.80	-9.81	-0.005218		
	4.35	-17.41	-0.009261		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-10.94	-0.006315	Within authorized band for Band 4	Pass
	-20	-9.98	-0.005760		
	-10	-10.96	-0.006326		
	0	-14.08	-0.008127		
	10	-12.76	-0.007365		
	20	-11.47	-0.006620		
	30	-17.91	-0.010338		
	40	-12.09	-0.006978		
	50	-4.61	-0.002661		
16QAM					
3.80	-30	-7.44	-0.004294	Within authorized band for Band 4	Pass
	-20	-9.00	-0.005195		
	-10	-6.48	-0.003740		
	0	-8.68	-0.005010		
	10	-14.58	-0.008416		
	20	-11.46	-0.006615		
	30	-10.66	-0.006153		
	40	-15.26	-0.008808		
	50	-11.74	-0.006776		
64QAM					
3.80	-30	-13.80	-0.007965	Within authorized band for Band 4	Pass
	-20	-10.17	-0.005870		
	-10	-7.27	-0.004196		
	0	-10.96	-0.006326		
	10	8.81	0.005085		
	20	-10.40	-0.006003		
	30	-10.46	-0.006038		
	40	-14.91	-0.008606		
	50	-13.56	-0.007827		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-10.07	-0.005812	Within authorized band for Band 4	Pass
	3.80	-15.82	-0.009131		
	4.35	-11.64	-0.006719		
16QAM					
25	3.50	-13.60	-0.007850	Within authorized band for Band 4	Pass
	3.80	-13.79	-0.007960		
	4.35	-13.12	-0.007573		
64QAM					
25	3.50	-12.56	-0.007250	Within authorized band for Band 4	Pass
	3.80	-14.49	-0.008364		
	4.35	6.09	0.003515		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					