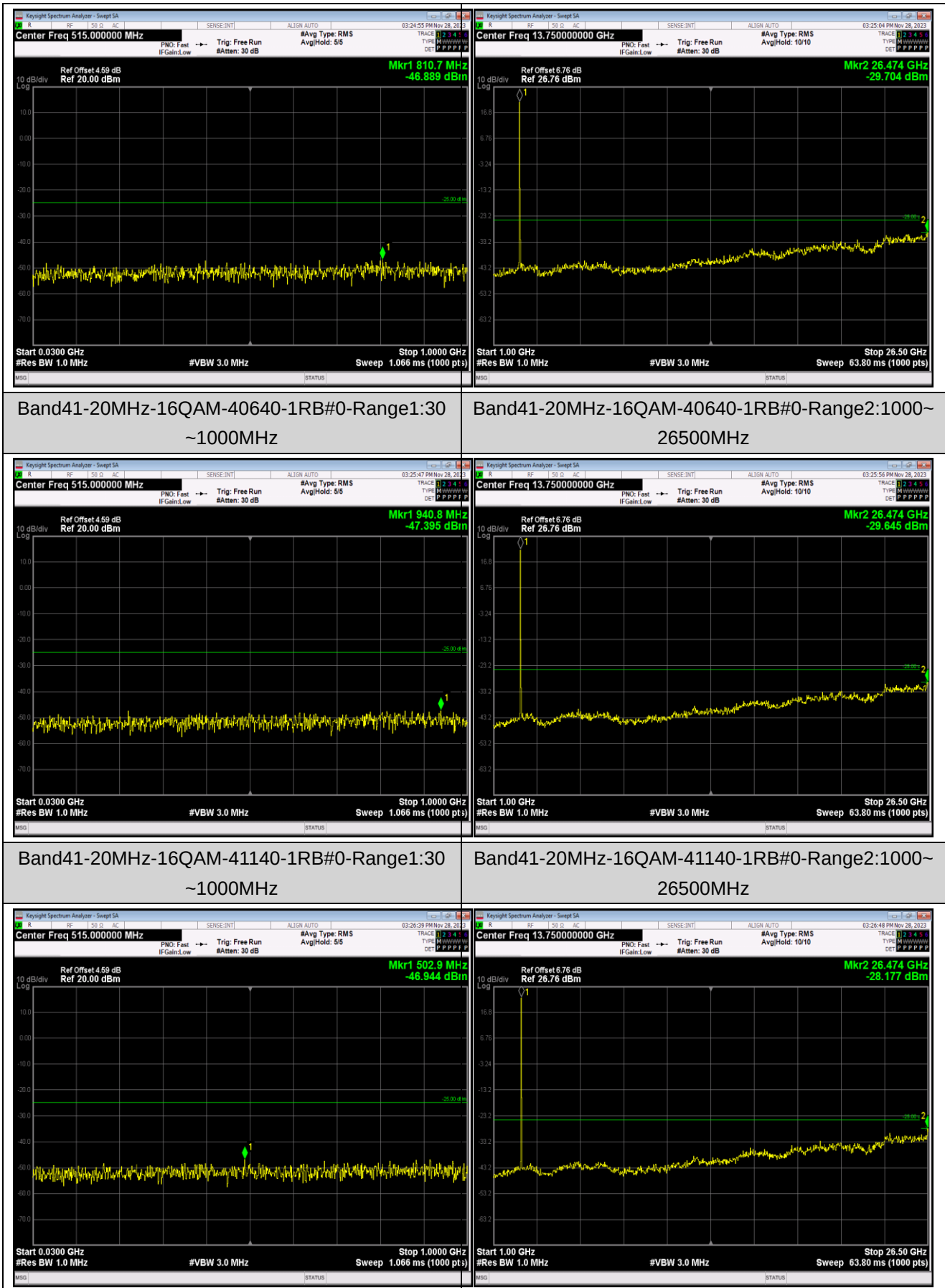


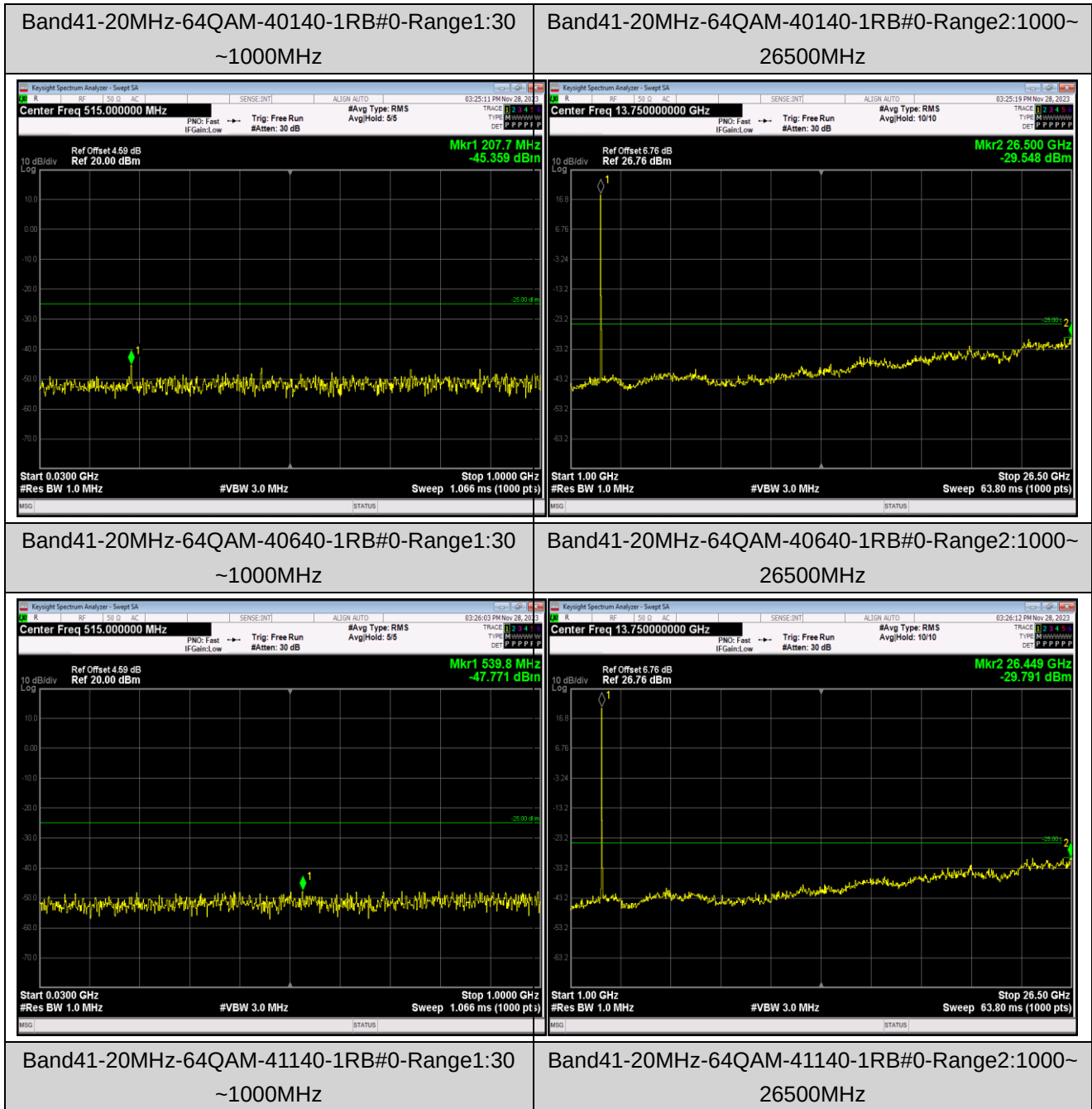


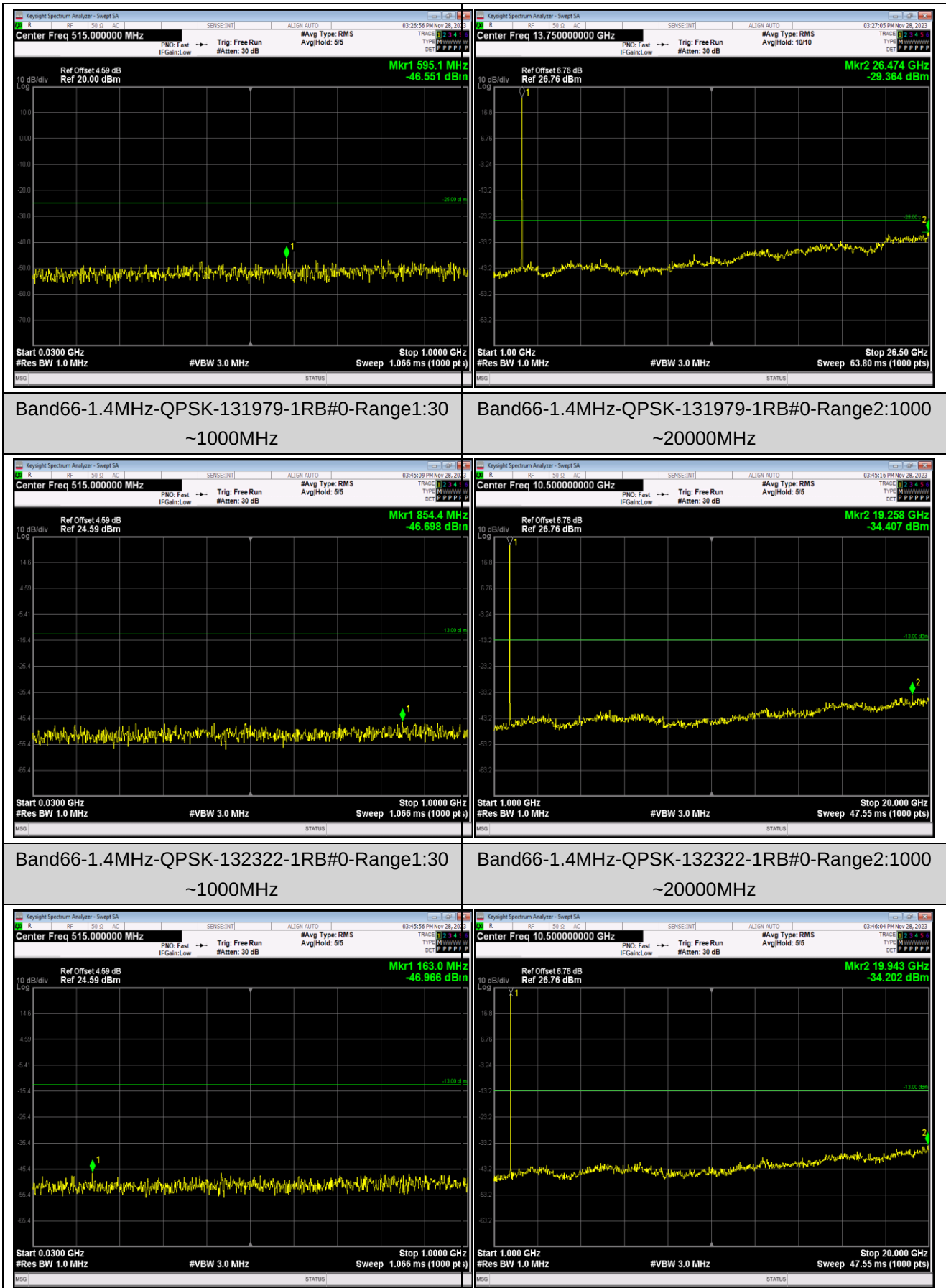
Band41-20MHz-16QAM-40640-1RB#0-Range1:30
~1000MHz

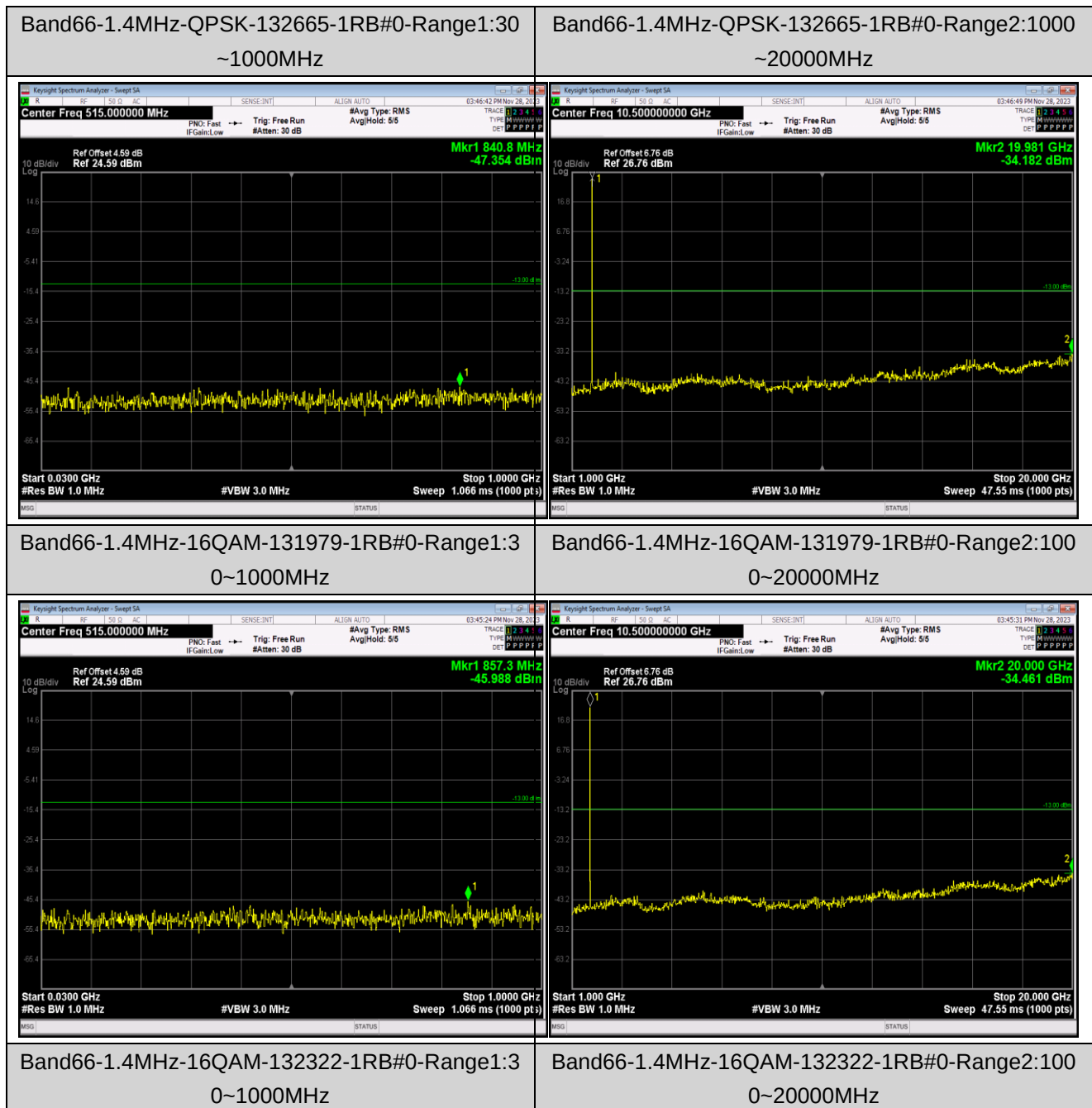
Band41-20MHz-16QAM-40640-1RB#0-Range2:1000~
26500MHz

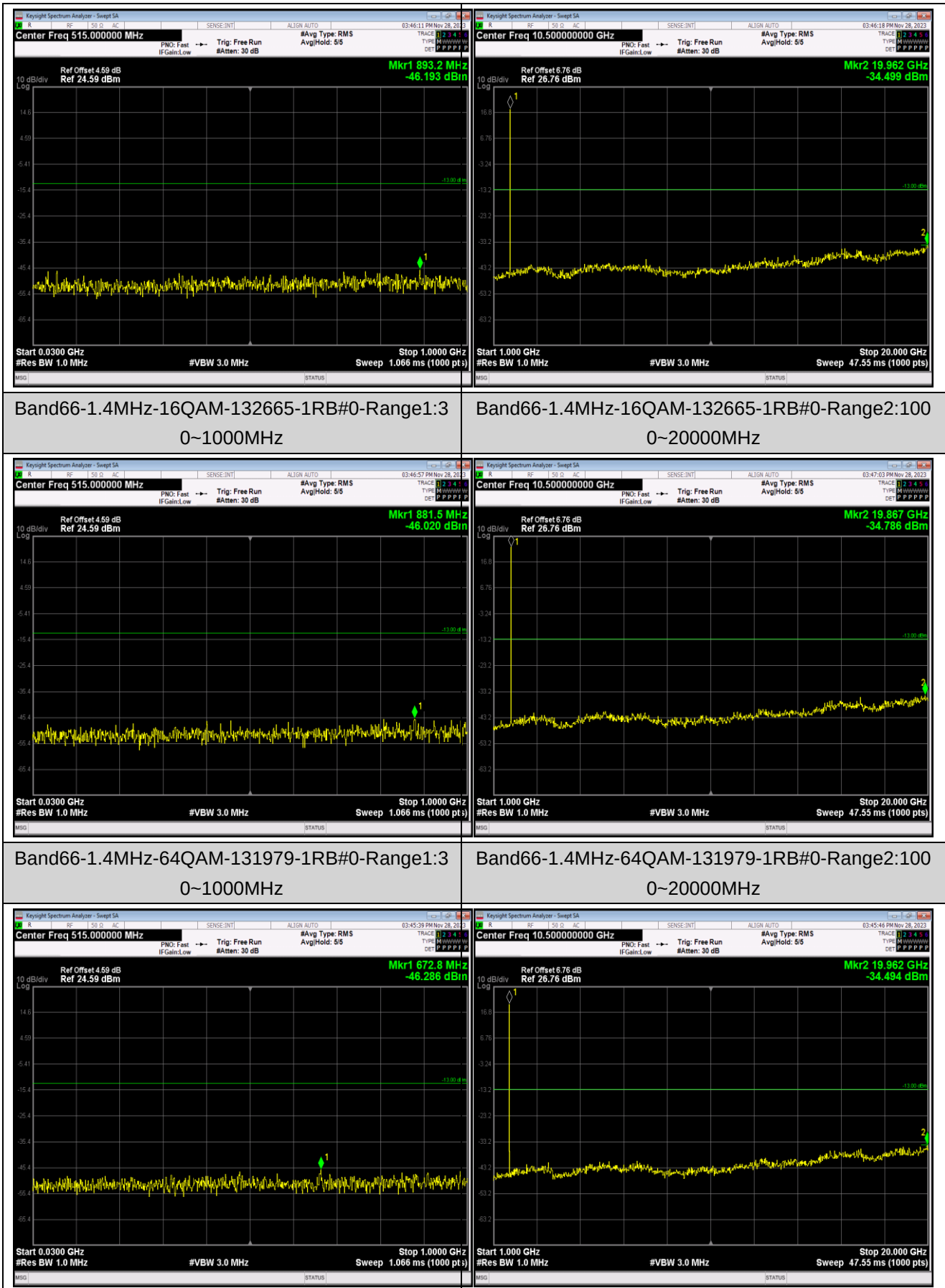
Band41-20MHz-16QAM-41140-1RB#0-Range1:30
~1000MHz

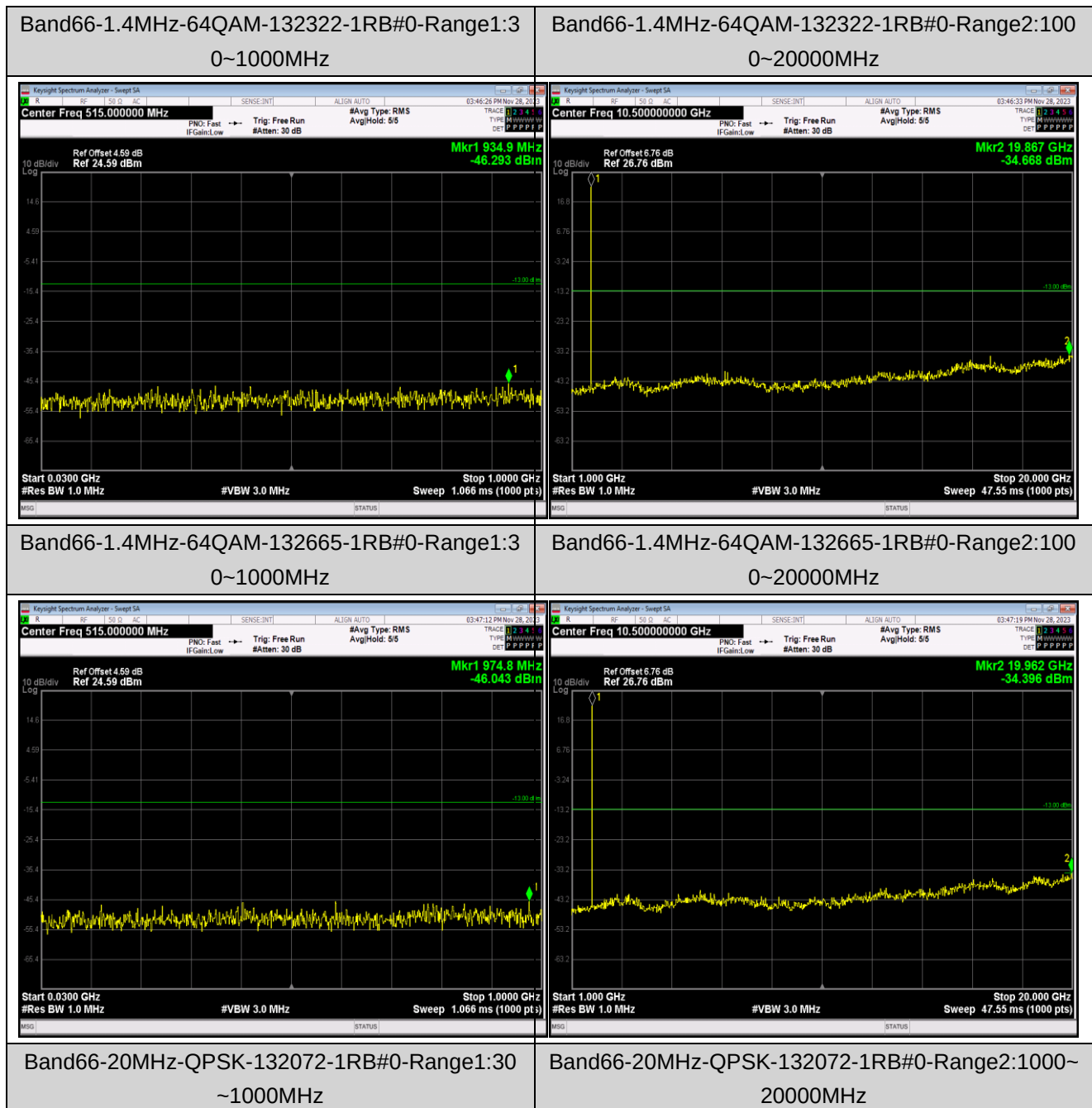
Band41-20MHz-16QAM-41140-1RB#0-Range2:1000~
26500MHz

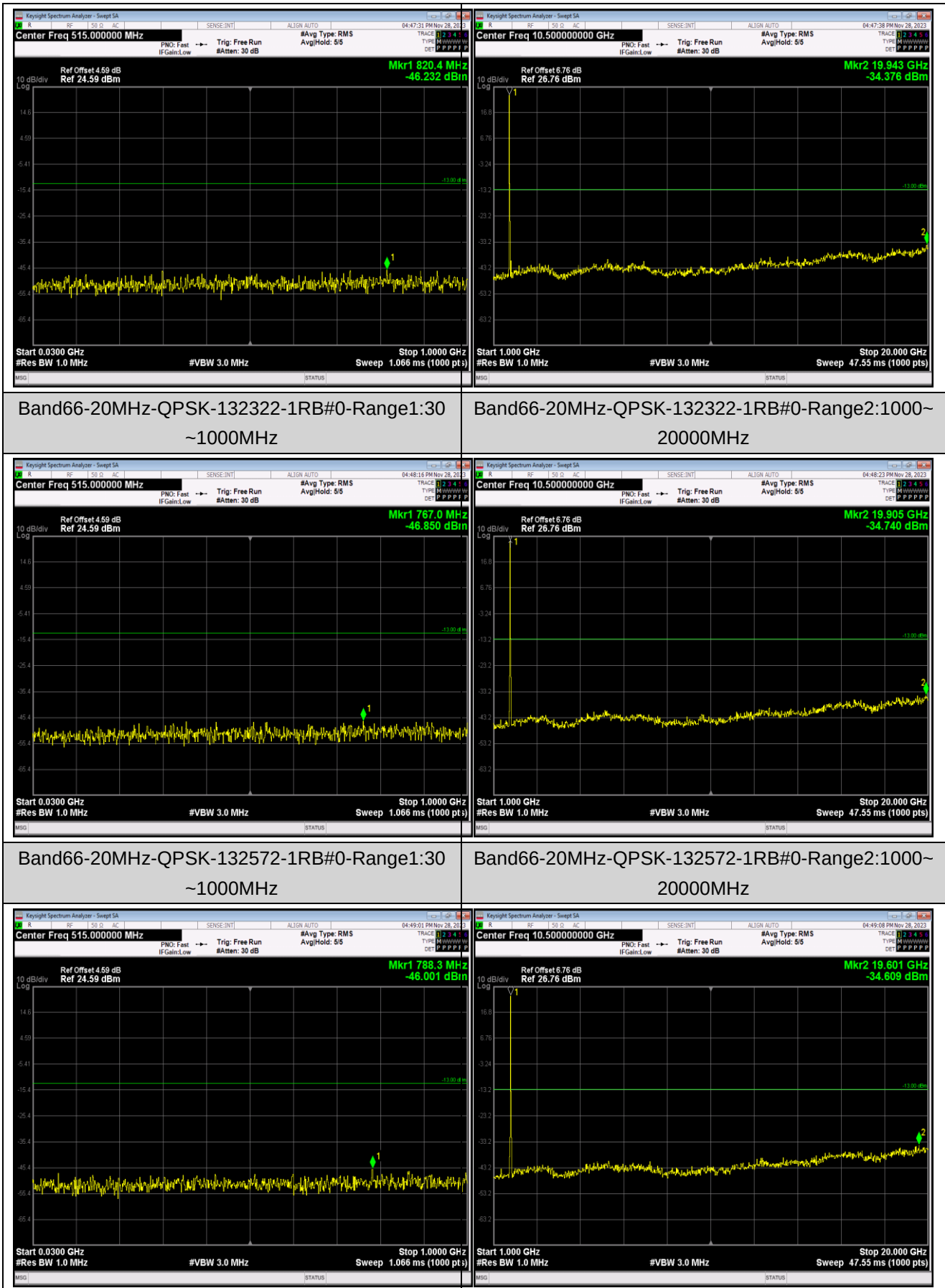


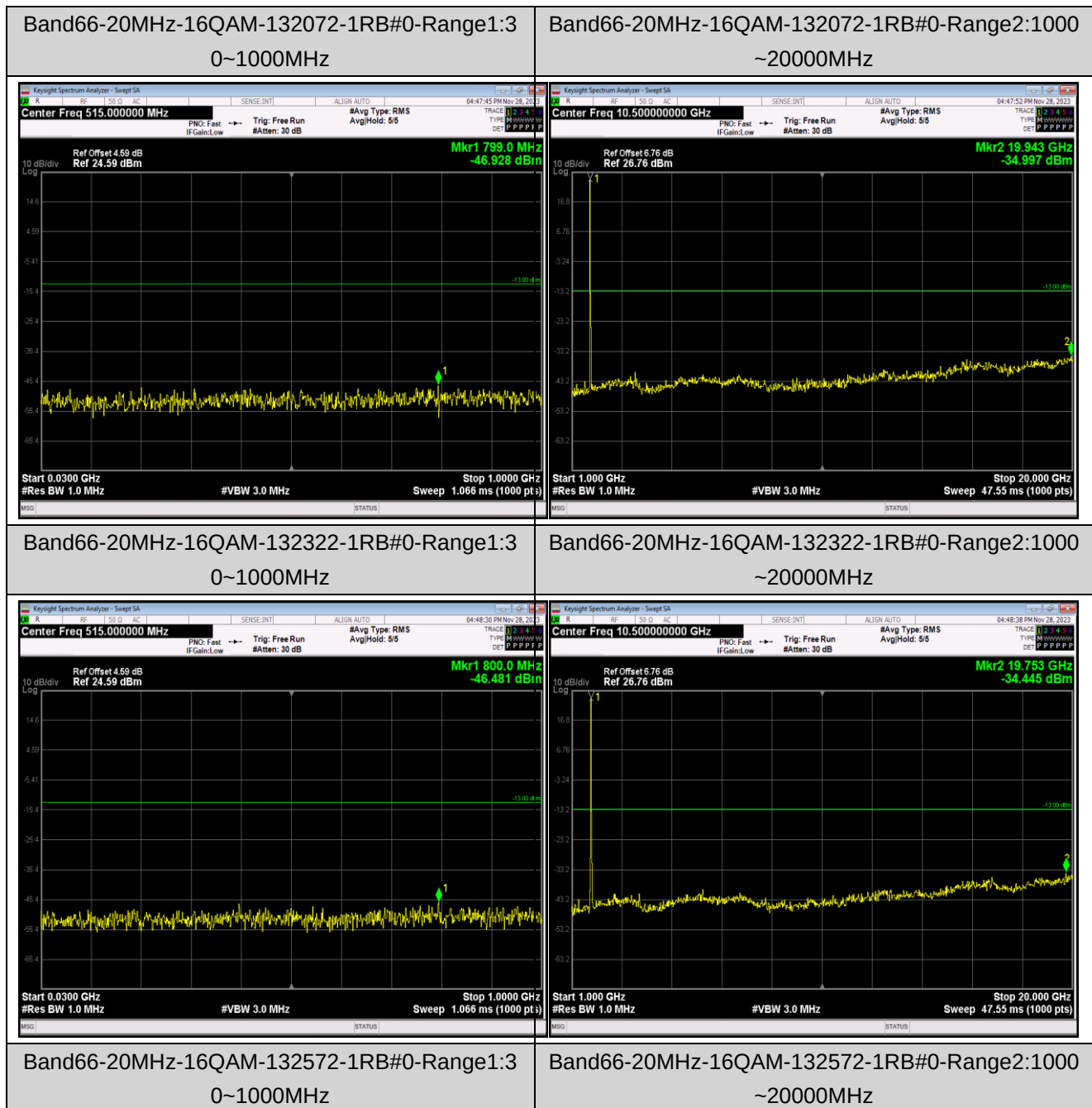


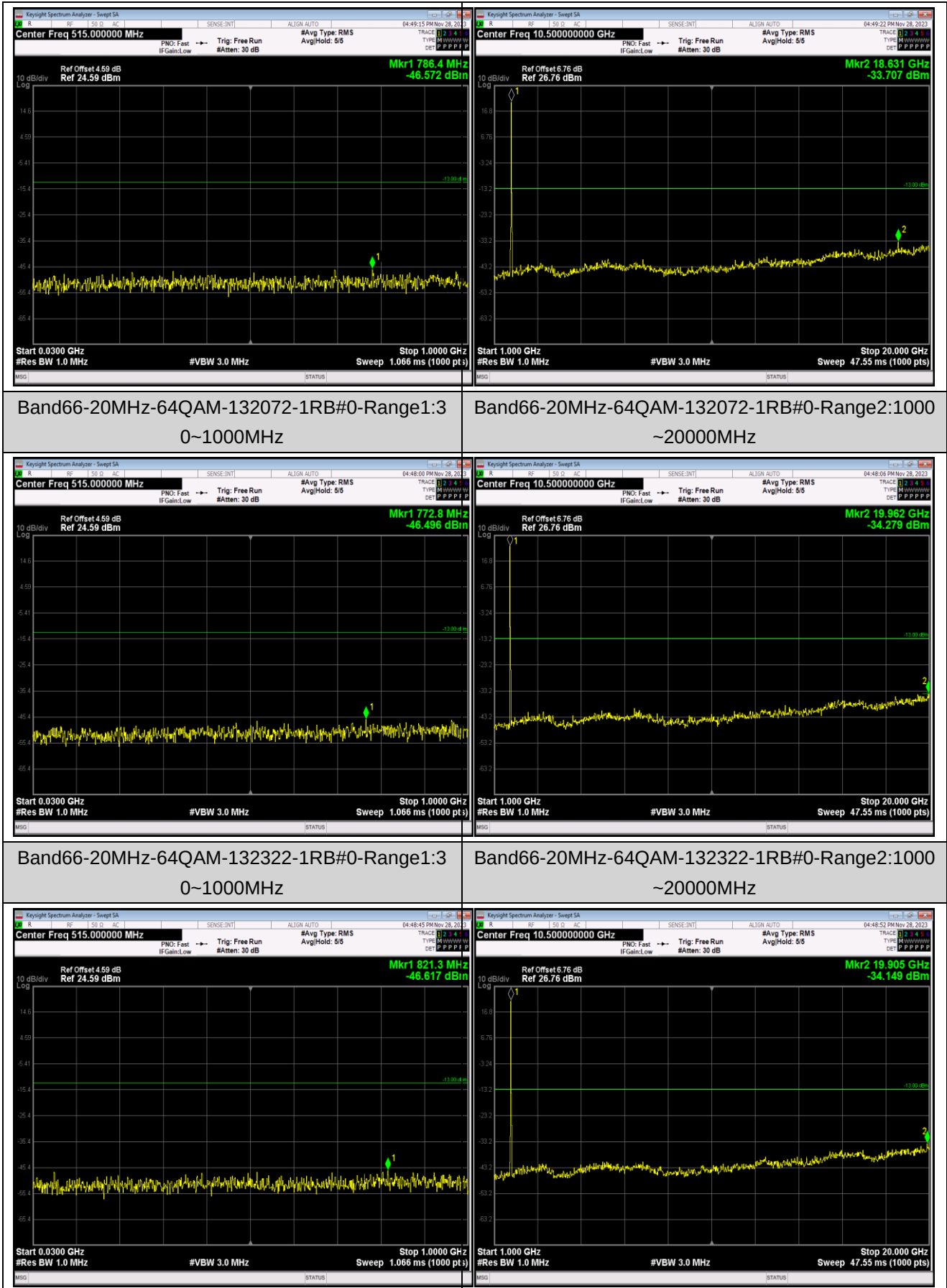


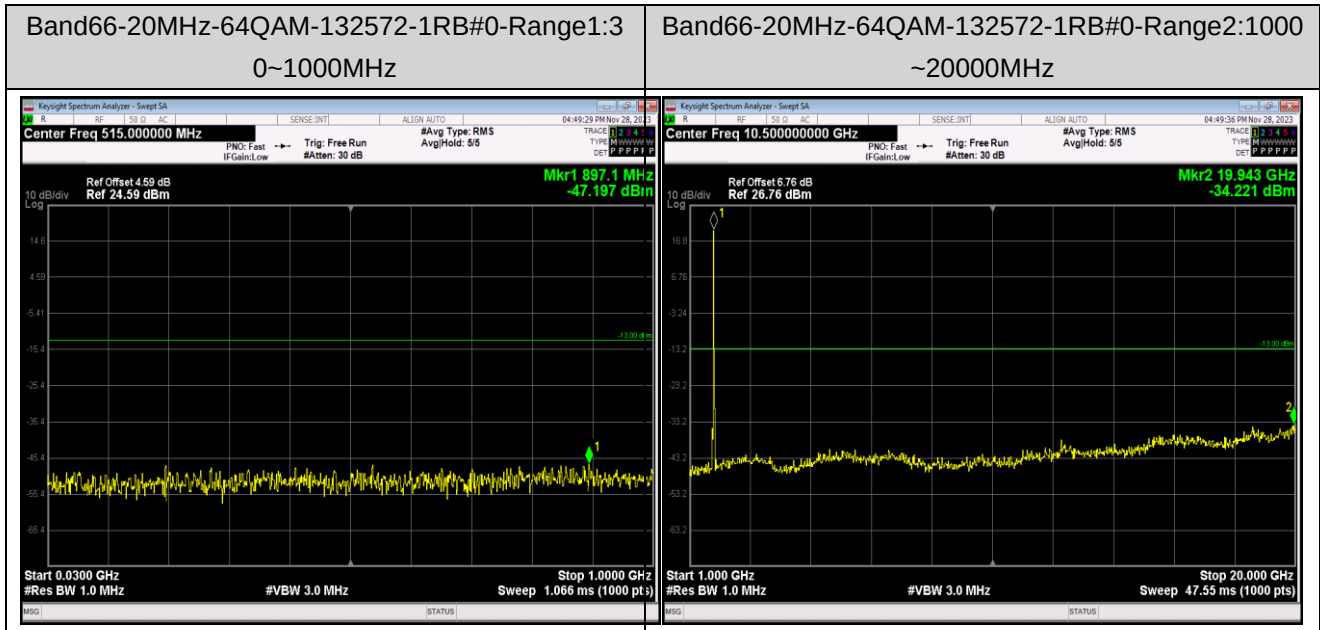












Appendix F: Frequency Stability

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					
3.91	-30	4.71	0.002505	Within authorized band for Band 2	Pass
	-20	-6.25	-0.003324		
	-10	-4.46	-0.002372		
	0	-9.77	-0.005197		
	10	-2.29	-0.001218		
	20	-4.55	-0.002420		
	30	-7.98	-0.004245		
	40	-5.46	-0.002904		
	50	2.86	0.001521		
16QAM					
3.91	-30	-5.66	-0.003011	Within authorized band for Band 2	Pass
	-20	-2.50	-0.001330		
	-10	-4.76	-0.002532		
	0	-5.88	-0.003128		
	10	-6.68	-0.003553		
	20	6.31	0.003356		
	30	-9.94	-0.005287		
	40	-10.54	-0.005606		
	50	-4.73	-0.002516		
64QAM					
3.91	-30	5.66	0.003011	Within authorized band for Band 2	Pass
	-20	-10.14	-0.005394		
	-10	-3.38	-0.001798		
	0	-7.01	-0.003729		
	10	6.27	0.003335		
	20	-4.92	-0.002617		
	30	-8.83	-0.004697		
	40	5.51	0.002931		
	50	4.15	0.002207		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.12	-0.003255	Within authorized band for Band 2	Pass
	3.91	-14.88	-0.007915		
	4.50	-3.10	-0.001649		
16QAM					
25	3.45	-5.21	-0.002771	Within authorized band for Band 2	Pass
	3.91	4.32	0.002298		
	4.50	-4.48	-0.002383		
64QAM					
25	3.45	-11.56	-0.006149	Within authorized band for Band 2	Pass
	3.91	3.82	0.002032		
	4.50	2.80	0.001489		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-5.25	-0.006276	±2.5	Pass
	-20	-4.18	-0.004997		
	-10	-4.18	-0.004997		
	0	-2.35	-0.002809		
	10	-6.68	-0.007986		
	20	-6.94	-0.008296		
	30	-4.55	-0.005439		
	40	-5.82	-0.006958		
	50	-6.19	-0.007400		
16QAM					
3.91	-30	-9.13	-0.010915	±2.5	Pass
	-20	-5.97	-0.007137		
	-10	-3.91	-0.004674		
	0	-4.13	-0.004937		
	10	-5.26	-0.006288		
	20	-6.45	-0.007711		
	30	-5.98	-0.007149		
	40	-4.36	-0.005212		
	50	-6.57	-0.007854		
64QAM					
3.91	-30	-5.02	-0.006001	±2.5	Pass
	-20	-2.72	-0.003252		
	-10	-6.95	-0.008308		
	0	-3.75	-0.004483		
	10	-3.48	-0.004160		
	20	-5.94	-0.007101		
	30	-6.38	-0.007627		
	40	-5.34	-0.006384		
	50	-5.54	-0.006623		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.53	-0.004220	±2.5	Pass
	3.91	-9.54	-0.011405		
	4.50	-8.68	-0.010377		
16QAM					
25	3.45	-7.54	-0.009014	±2.5	Pass
	3.91	-4.11	-0.004913		
	4.50	-3.93	-0.004698		
64QAM					
25	3.45	-3.85	-0.004603	±2.5	Pass
	3.91	-5.21	-0.006228		
	4.50	-3.92	-0.004686		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	11.20	0.004418	Within authorized band for Band 7	Pass
	-20	-18.87	-0.007444		
	-10	-14.41	-0.005684		
	0	-17.81	-0.007026		
	10	5.66	0.002233		
	20	-12.97	-0.005116		
	30	-14.18	-0.005594		
	40	-15.66	-0.006178		
	50	17.77	0.007010		
16QAM					
3.91	-30	2.26	0.000892	Within authorized band for Band 7	Pass
	-20	-12.39	-0.004888		
	-10	9.73	0.003838		
	0	15.58	0.006146		
	10	14.29	0.005637		
	20	-6.54	-0.002580		
	30	7.68	0.003030		
	40	7.40	0.002919		
	50	-15.41	-0.006079		
64QAM					
3.91	-30	-16.98	-0.006698	Within authorized band for Band 7	Pass
	-20	-15.23	-0.006008		
	-10	-6.38	-0.002517		
	0	-13.42	-0.005294		
	10	-11.16	-0.004402		
	20	-4.72	-0.001862		
	30	-18.30	-0.007219		
	40	-11.62	-0.004584		
	50	14.88	0.005870		