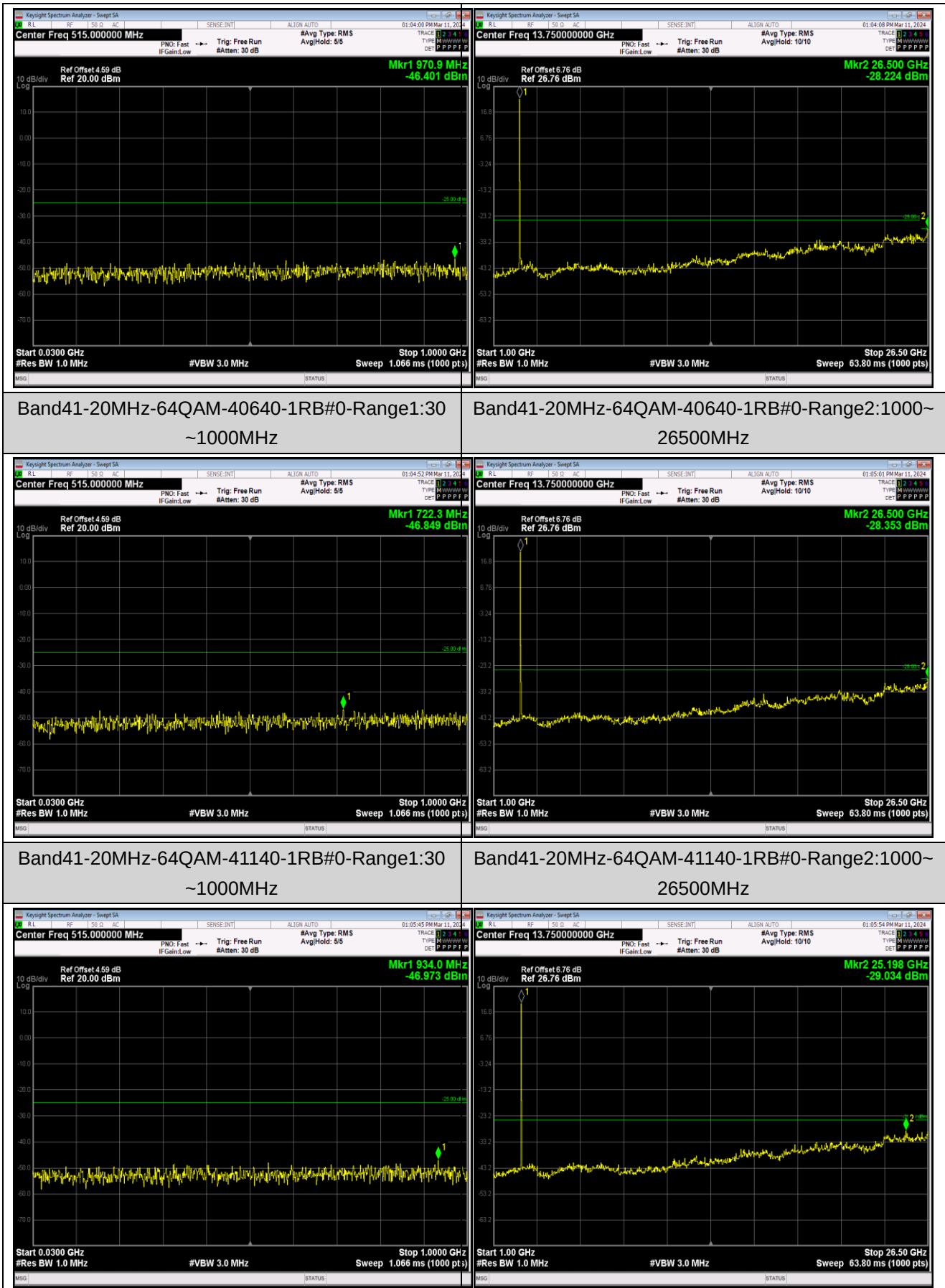
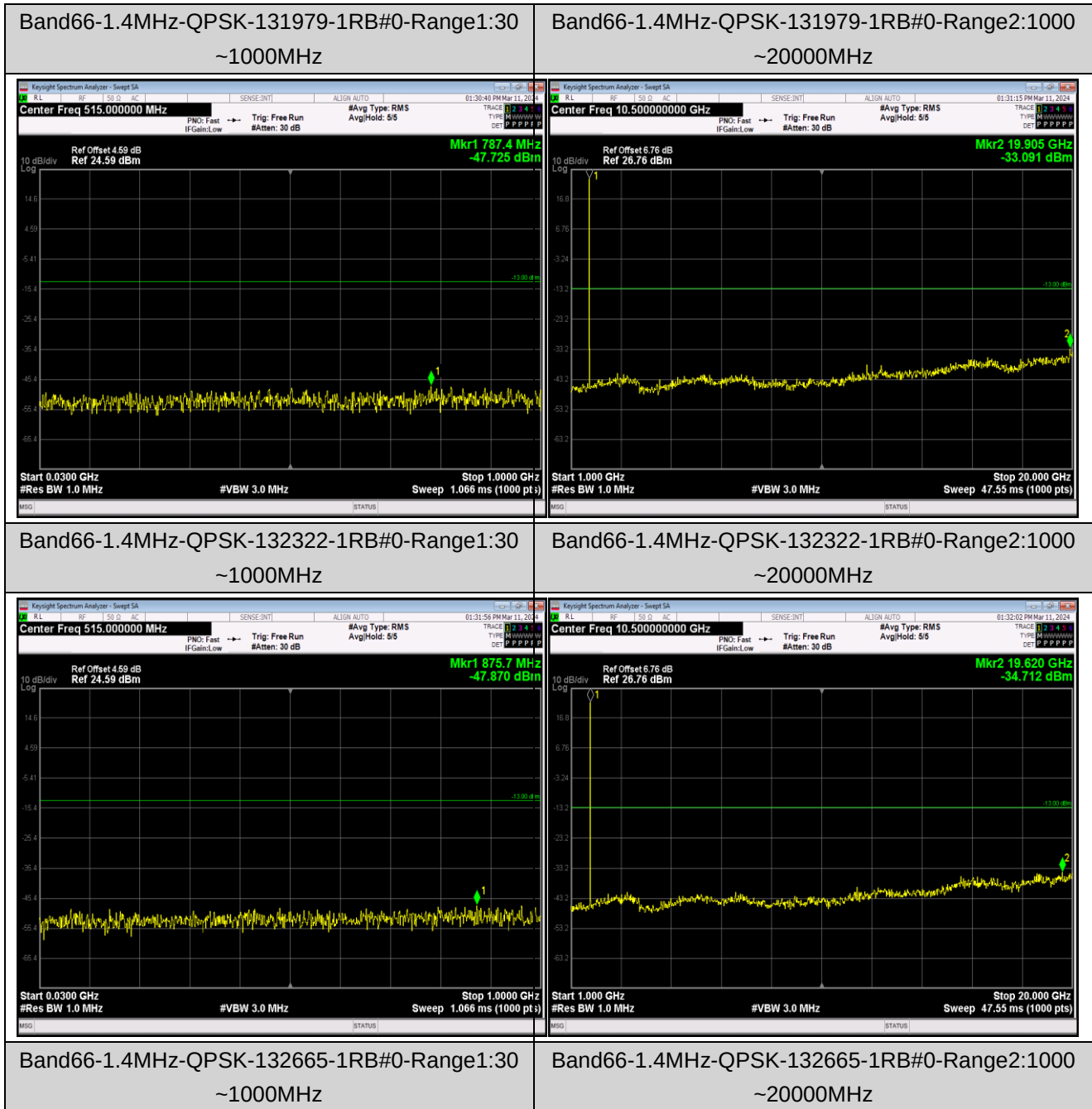
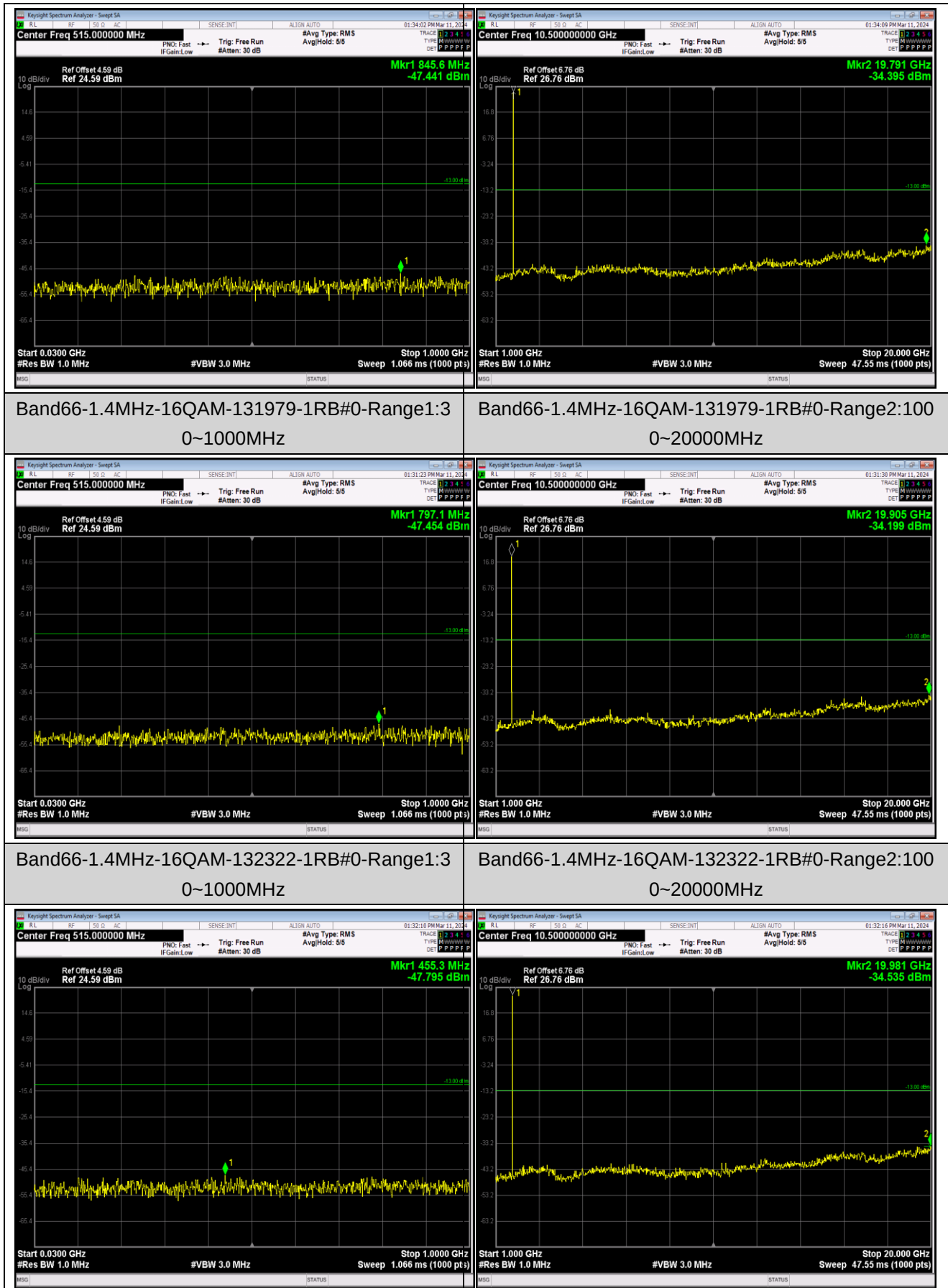
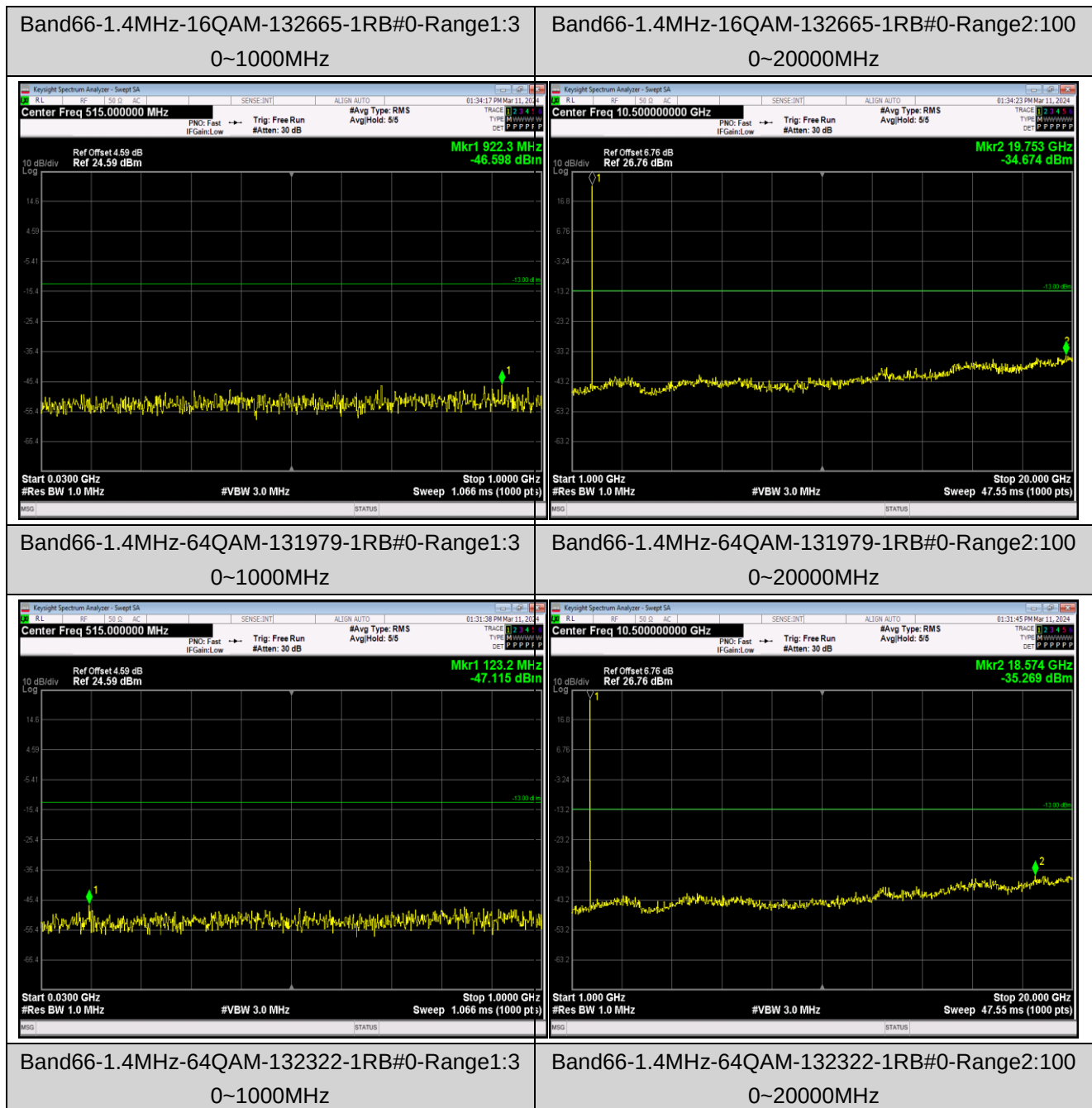
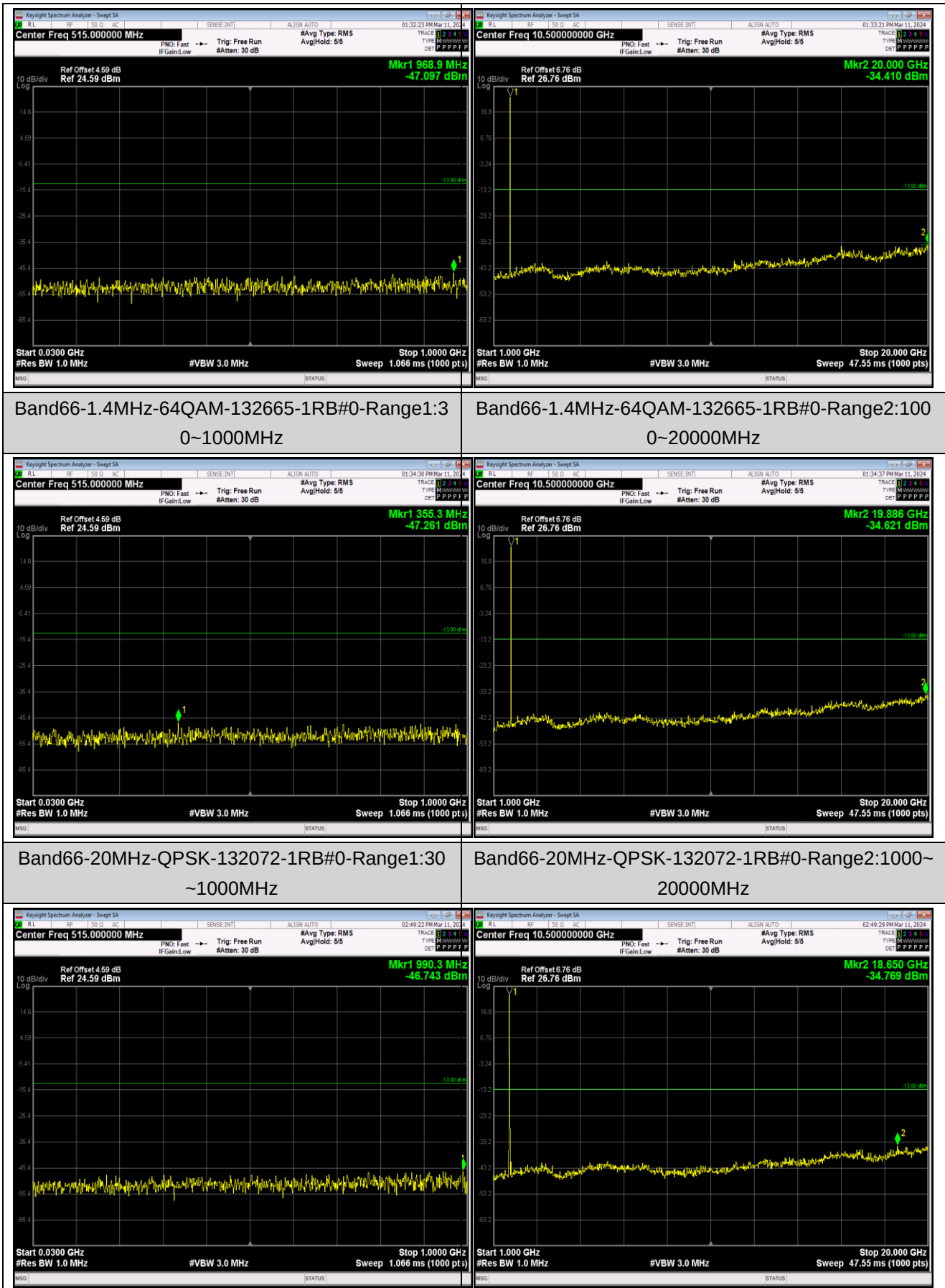


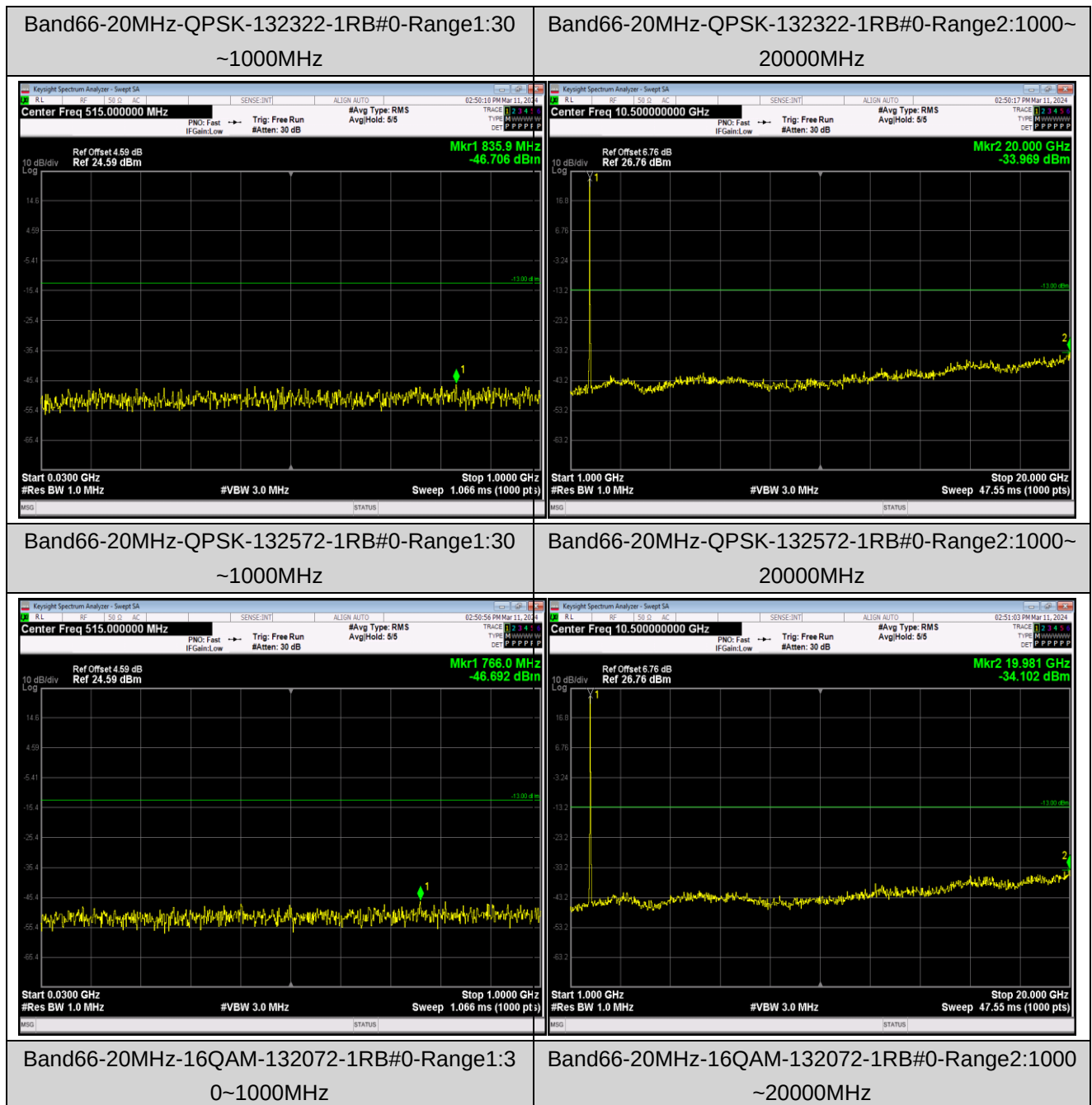


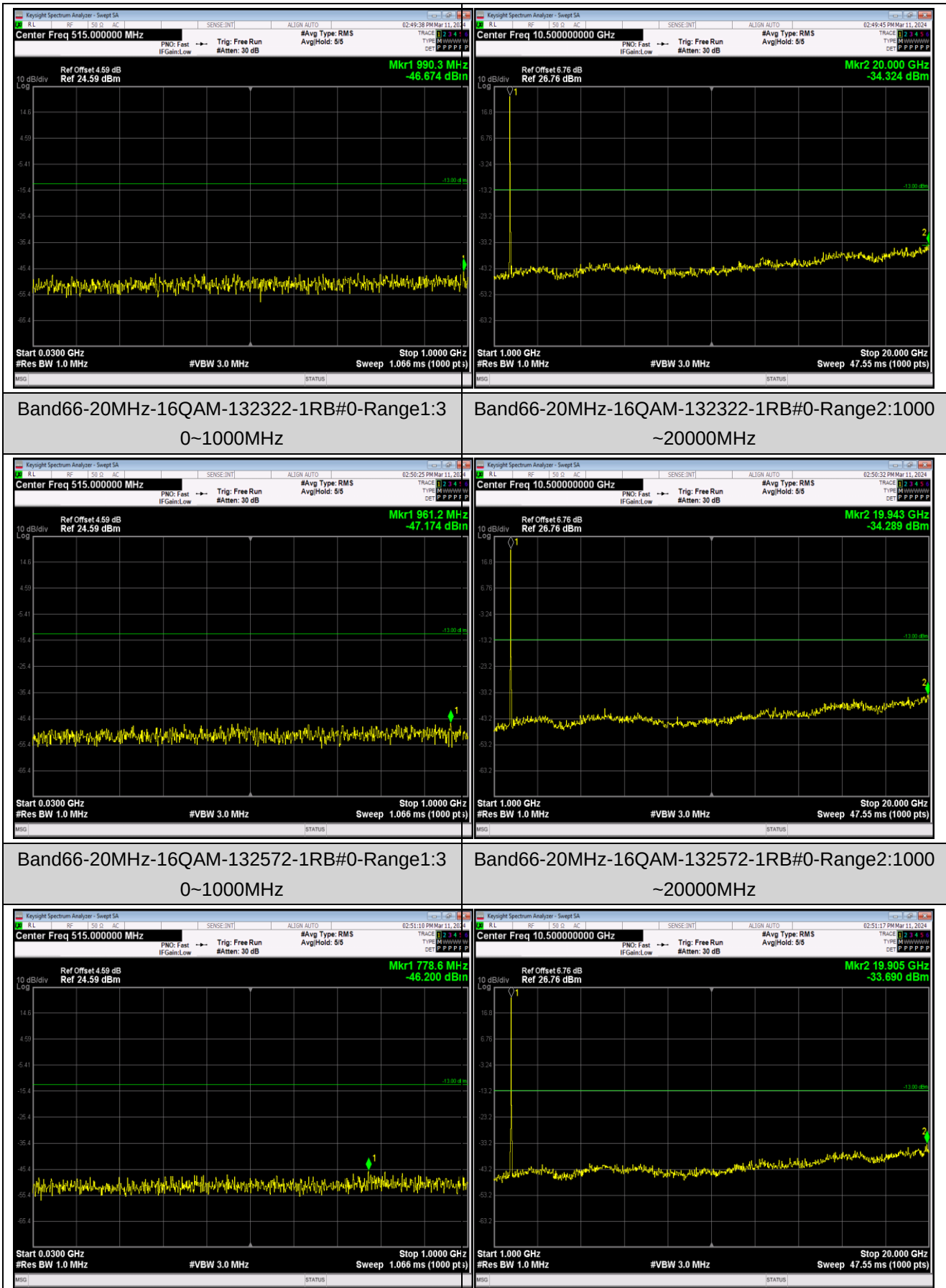


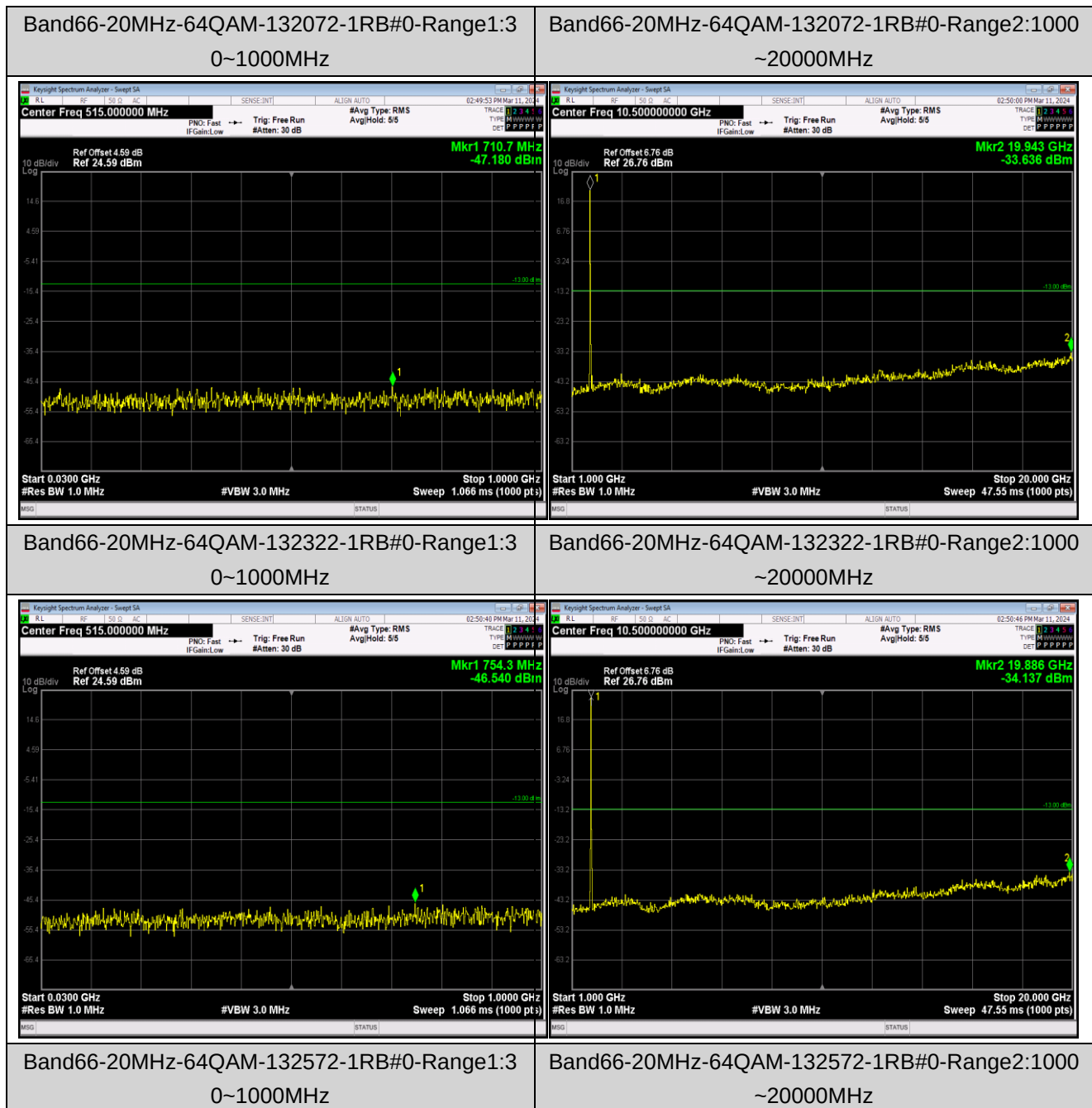


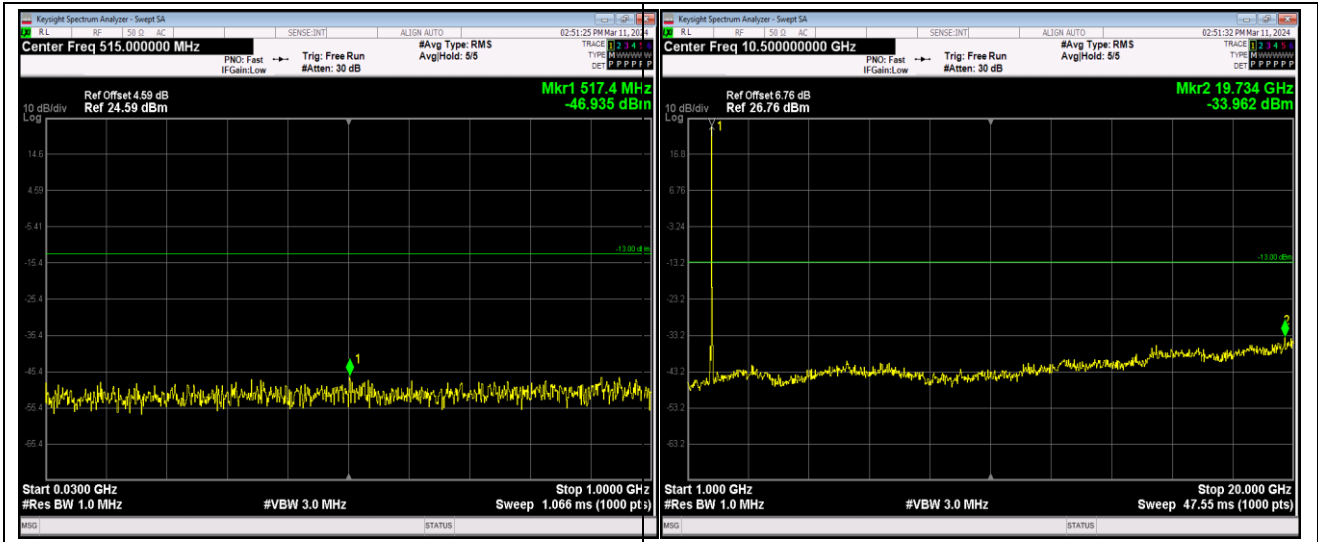












Appendix F: Frequency Stability

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	-38.18	-0.020309	Within authorized band for Band 2	Pass
	-20	-25.92	-0.013787		
	-10	14.71	0.007824		
	0	-37.77	-0.020090		
	10	-47.88	-0.025468		
	20	-42.43	-0.022569		
	30	17.82	0.009479		
	40	-19.87	-0.010569		
	50	-21.92	-0.011660		
16QAM					
3.85	-30	17.92	0.009532	Within authorized band for Band 2	Pass
	-20	35.69	0.018984		
	-10	47.41	0.025218		
	0	-9.77	-0.005197		
	10	19.27	0.010250		
	20	34.23	0.018207		
	30	23.79	0.012654		
	40	14.03	0.007463		
	50	33.69	0.017920		
64QAM					
3.85	-30	24.12	0.012830	Within authorized band for Band 2	Pass
	-20	48.35	0.025718		
	-10	40.51	0.021548		
	0	18.27	0.009718		
	10	58.99	0.031378		
	20	34.33	0.018261		
	30	-17.28	-0.009191		
	40	-17.19	-0.009144		
	50	-11.59	-0.006165		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-21.31	-0.011335	Within authorized band for Band 2	Pass
	3.85	39.12	0.020809		
	4.40	14.78	0.007862		
16QAM					
25	3.45	18.85	0.010027	Within authorized band for Band 2	Pass
	3.85	-28.68	-0.015255		
	4.40	50.53	0.026878		
64QAM					
25	3.45	60.61	0.032239	Within authorized band for Band 2	Pass
	3.85	14.83	0.007888		
	4.40	32.56	0.017319		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					