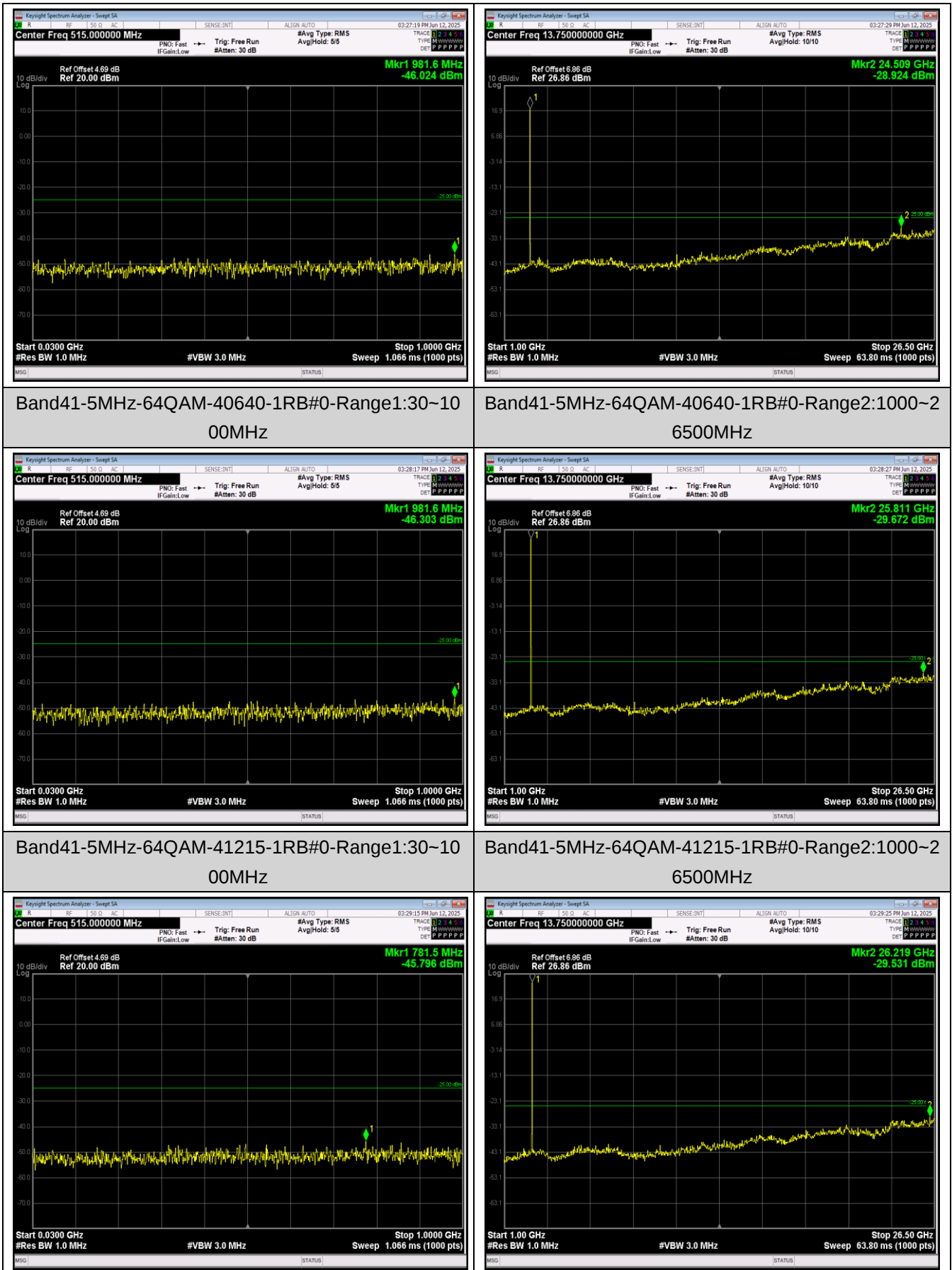
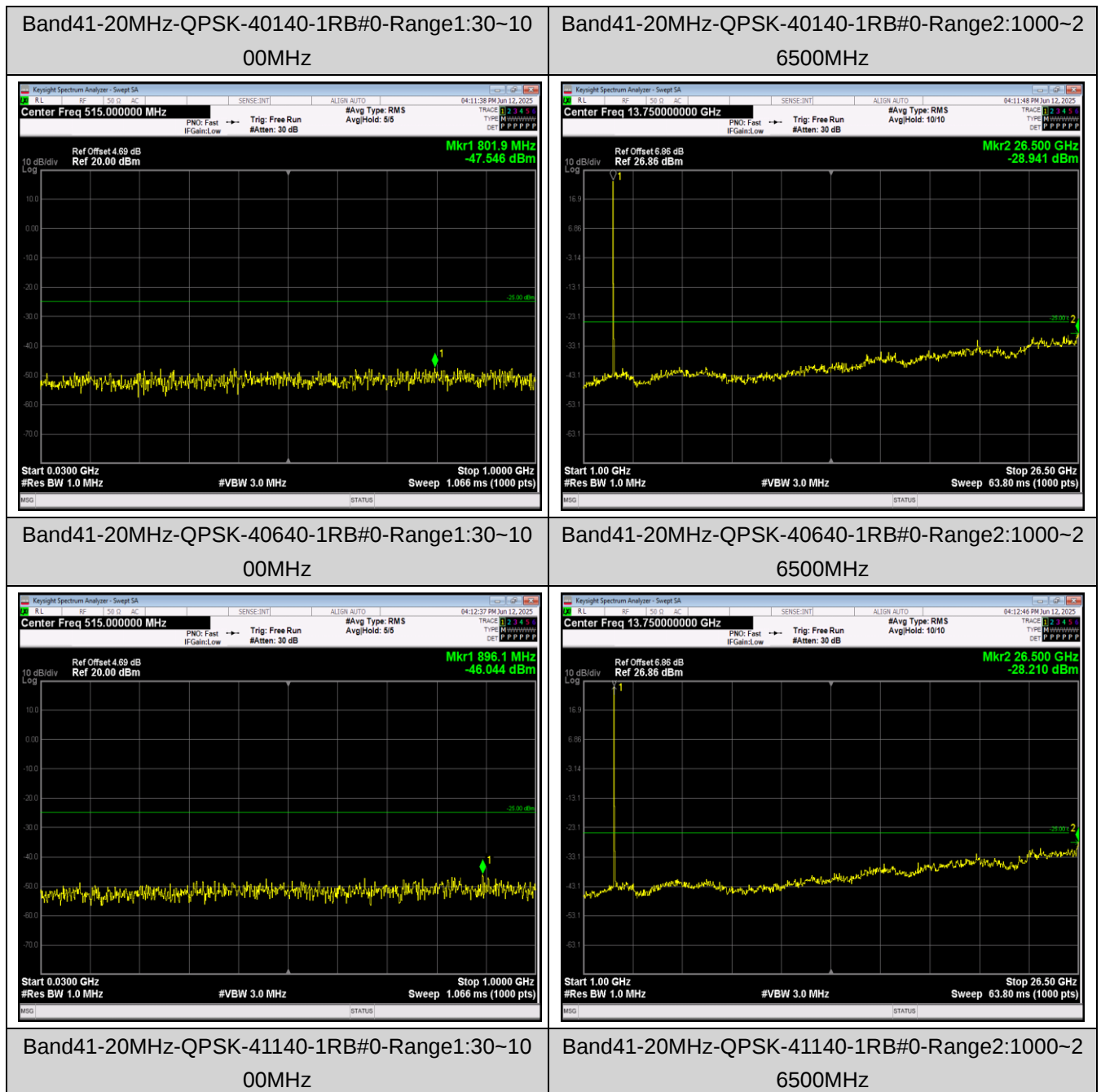
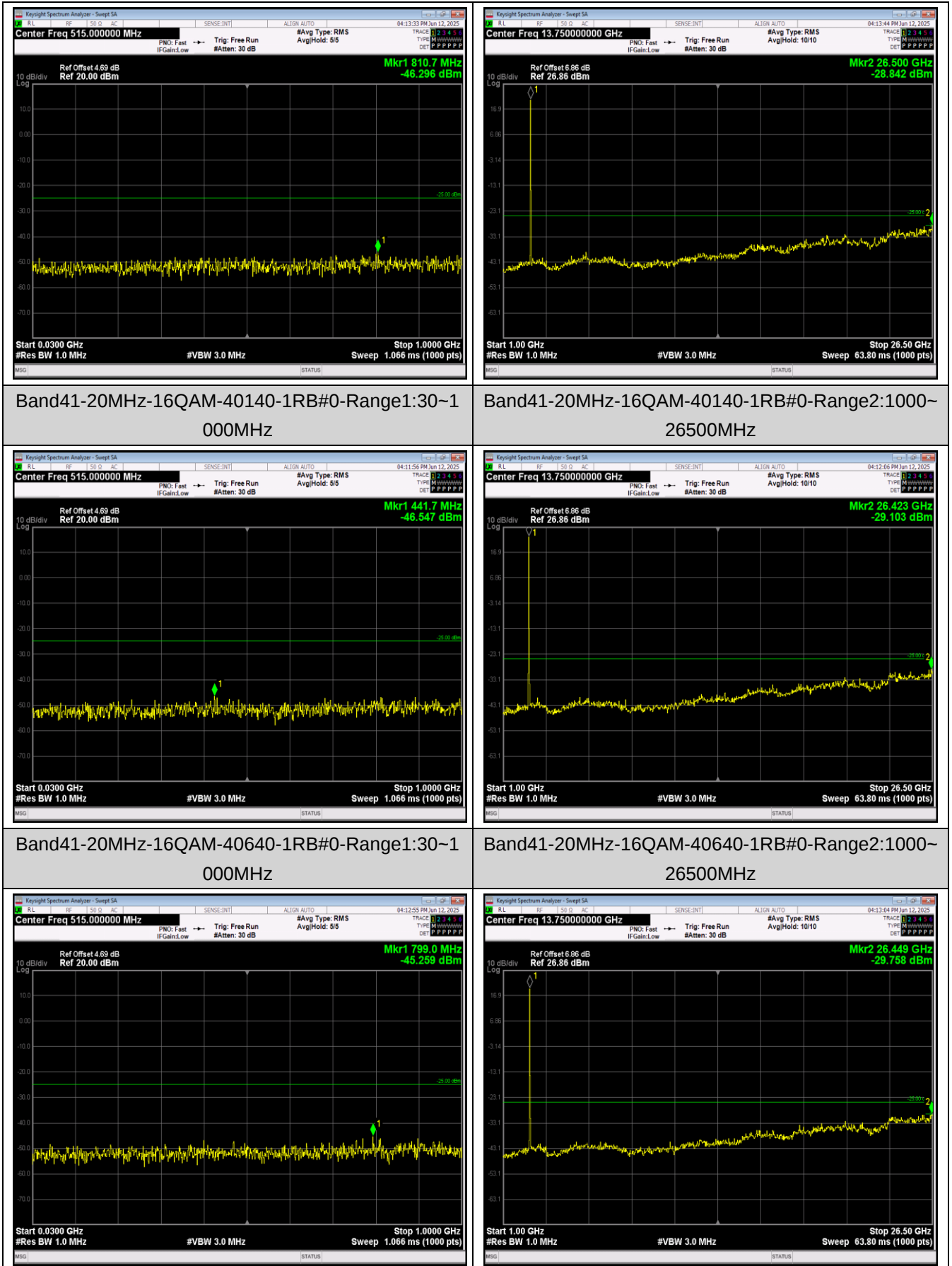








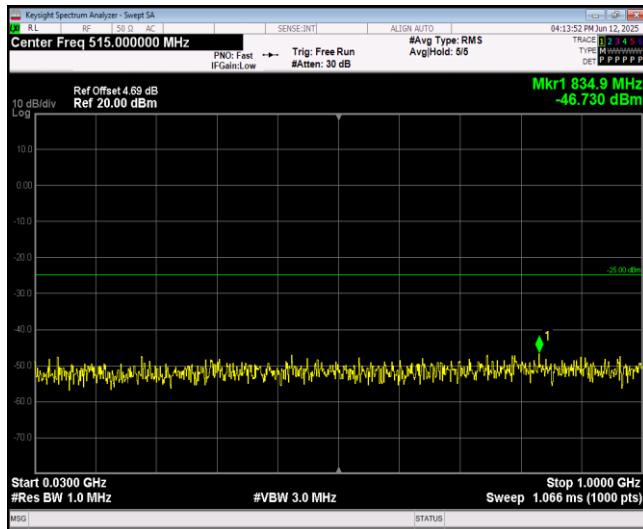
Band41-20MHz-16QAM-40140-1RB#0-Range1:30~1000MHz

Band41-20MHz-16QAM-40140-1RB#0-Range2:1000~26500MHz

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

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

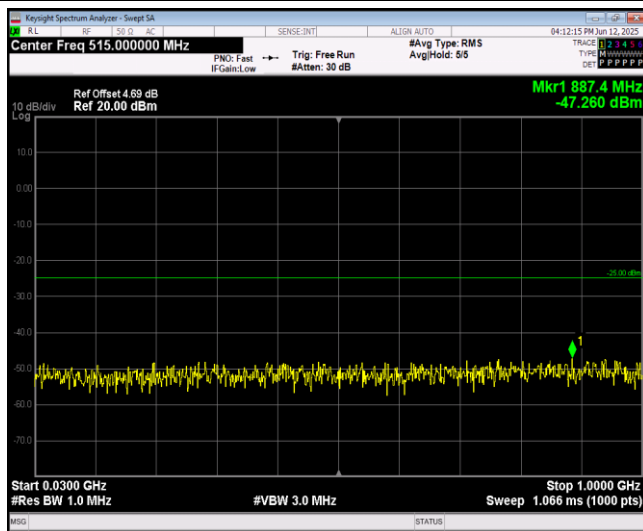
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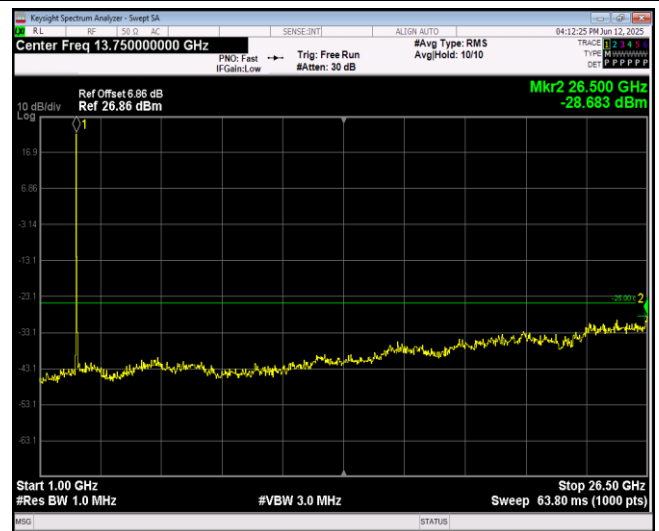
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26500MHz



Band41-20MHz-64QAM-40140-1RB#0-Range1:30~1
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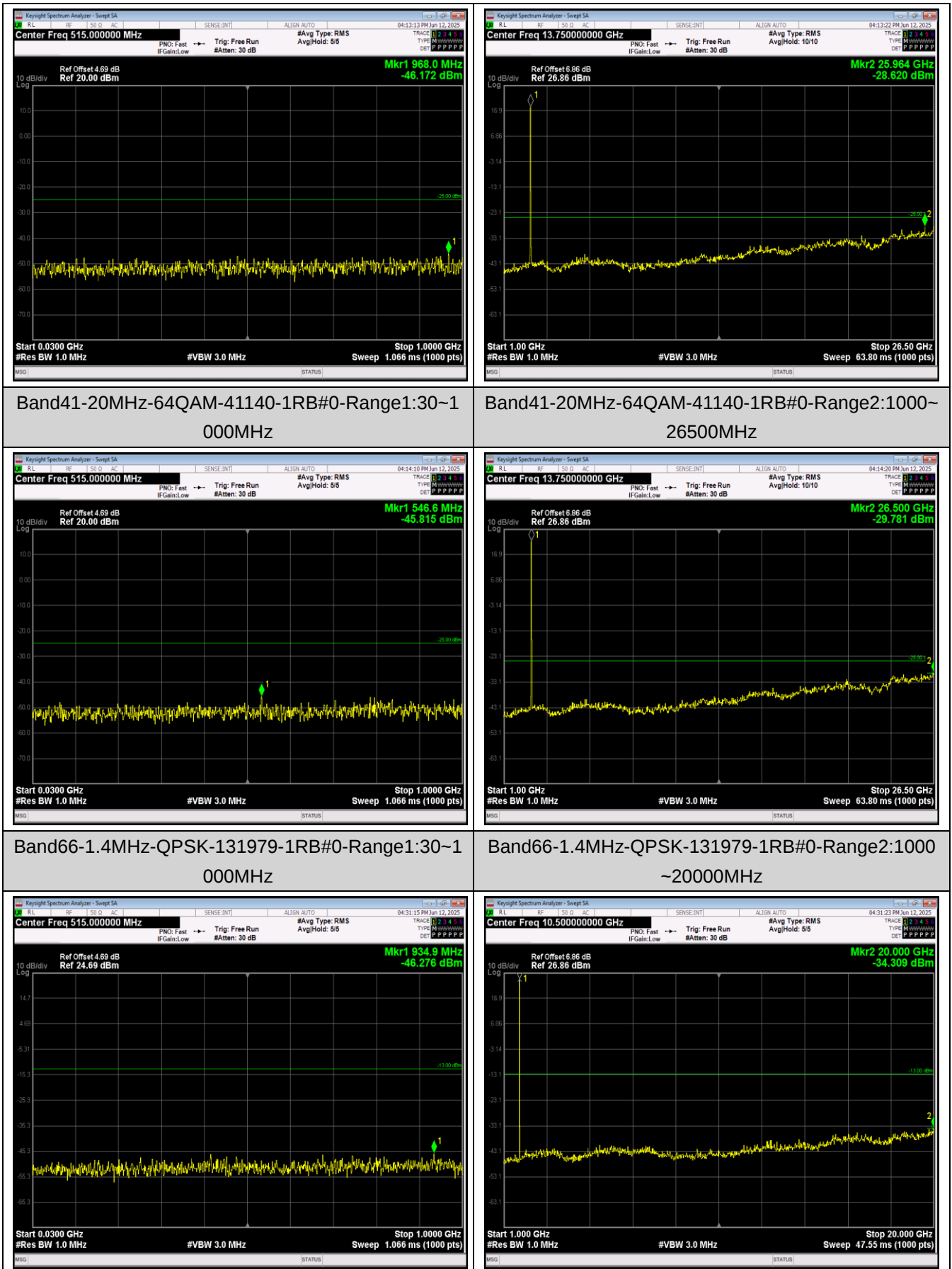


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26500MHz



Band41-20MHz-64QAM-40640-1RB#0-Range1:30~1
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Band41-20MHz-64QAM-40640-1RB#0-Range2:1000~
26500MHz

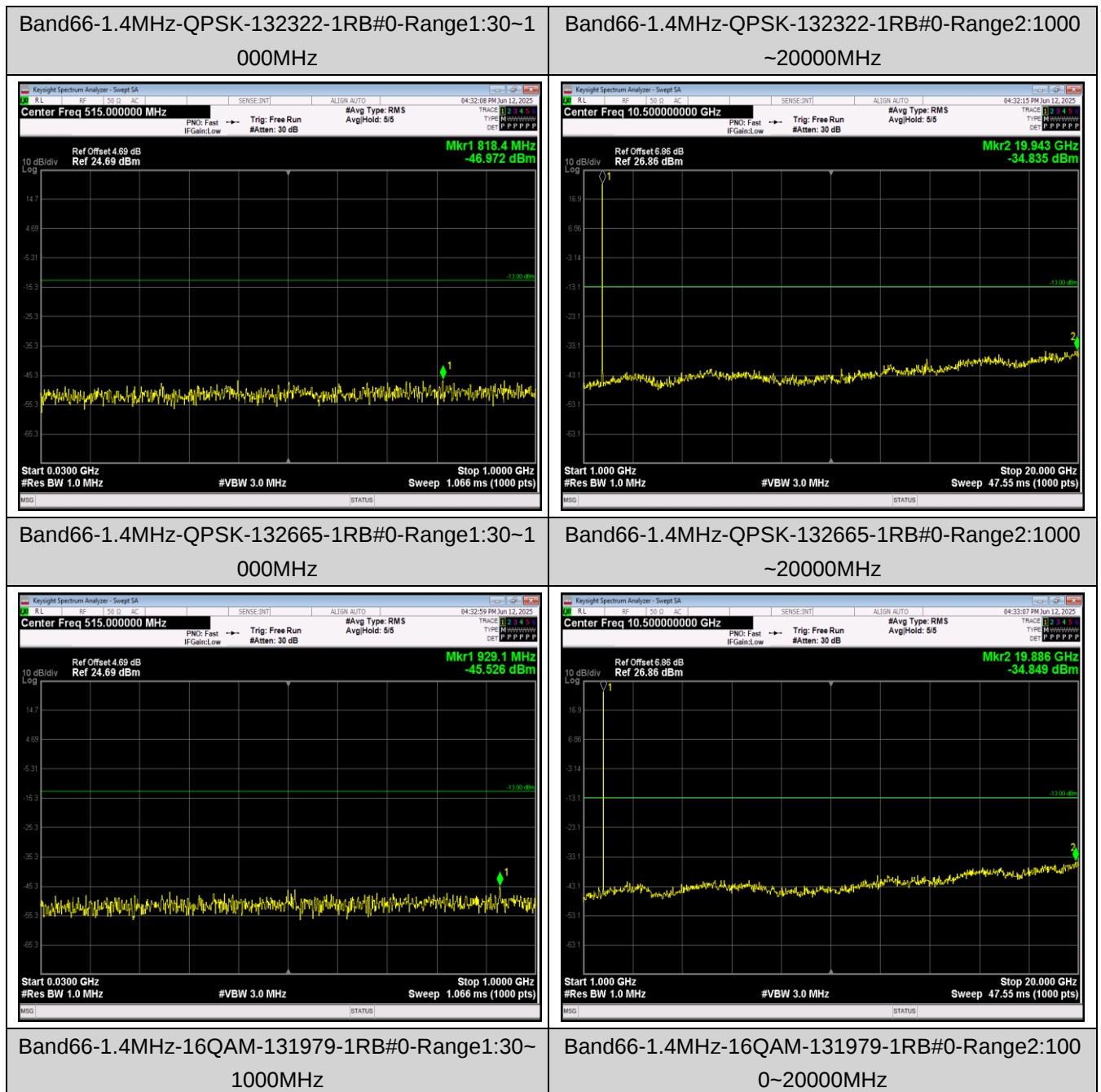


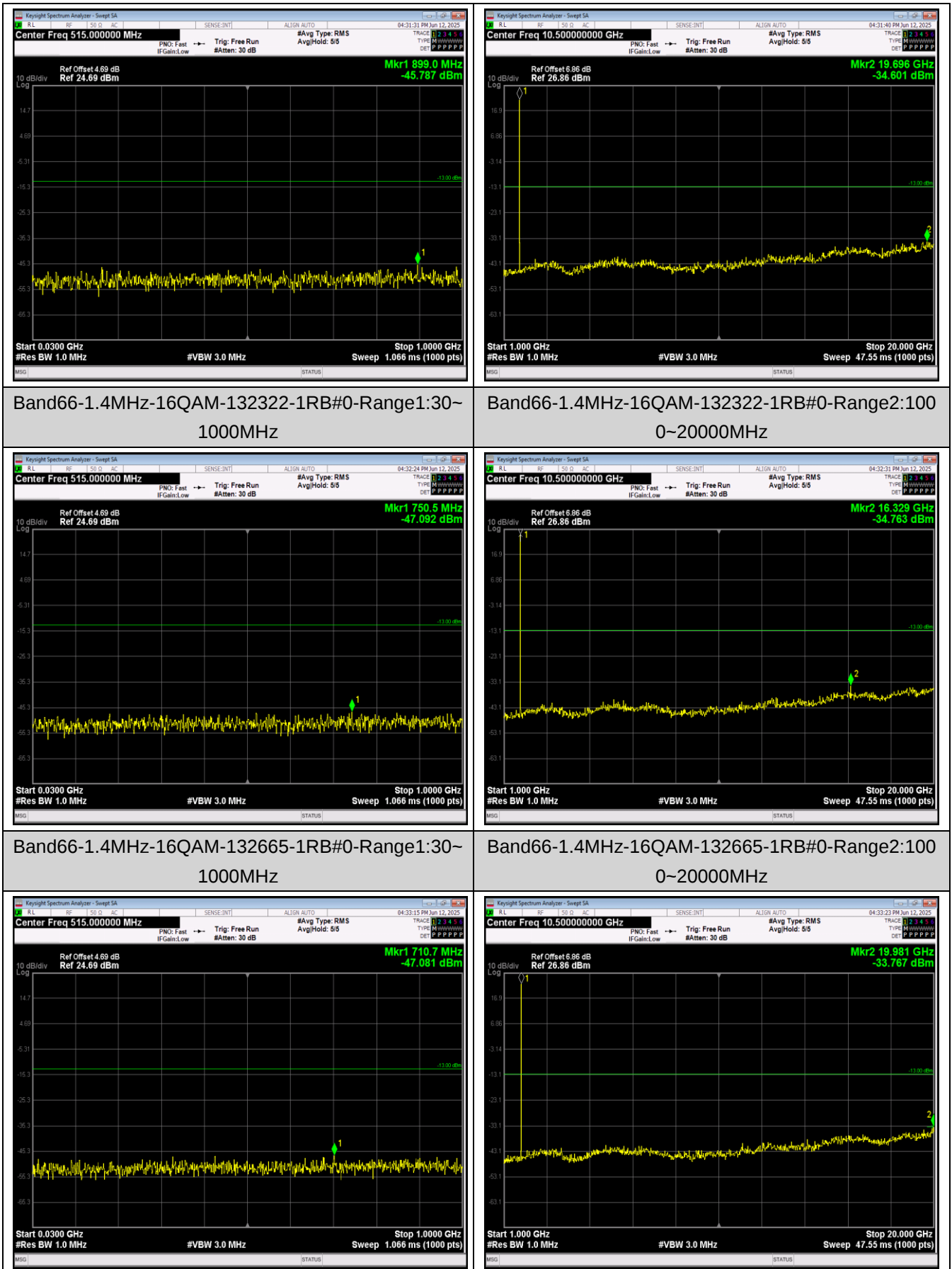
Band41-20MHz-64QAM-41140-1RB#0-Range1:30~1000MHz

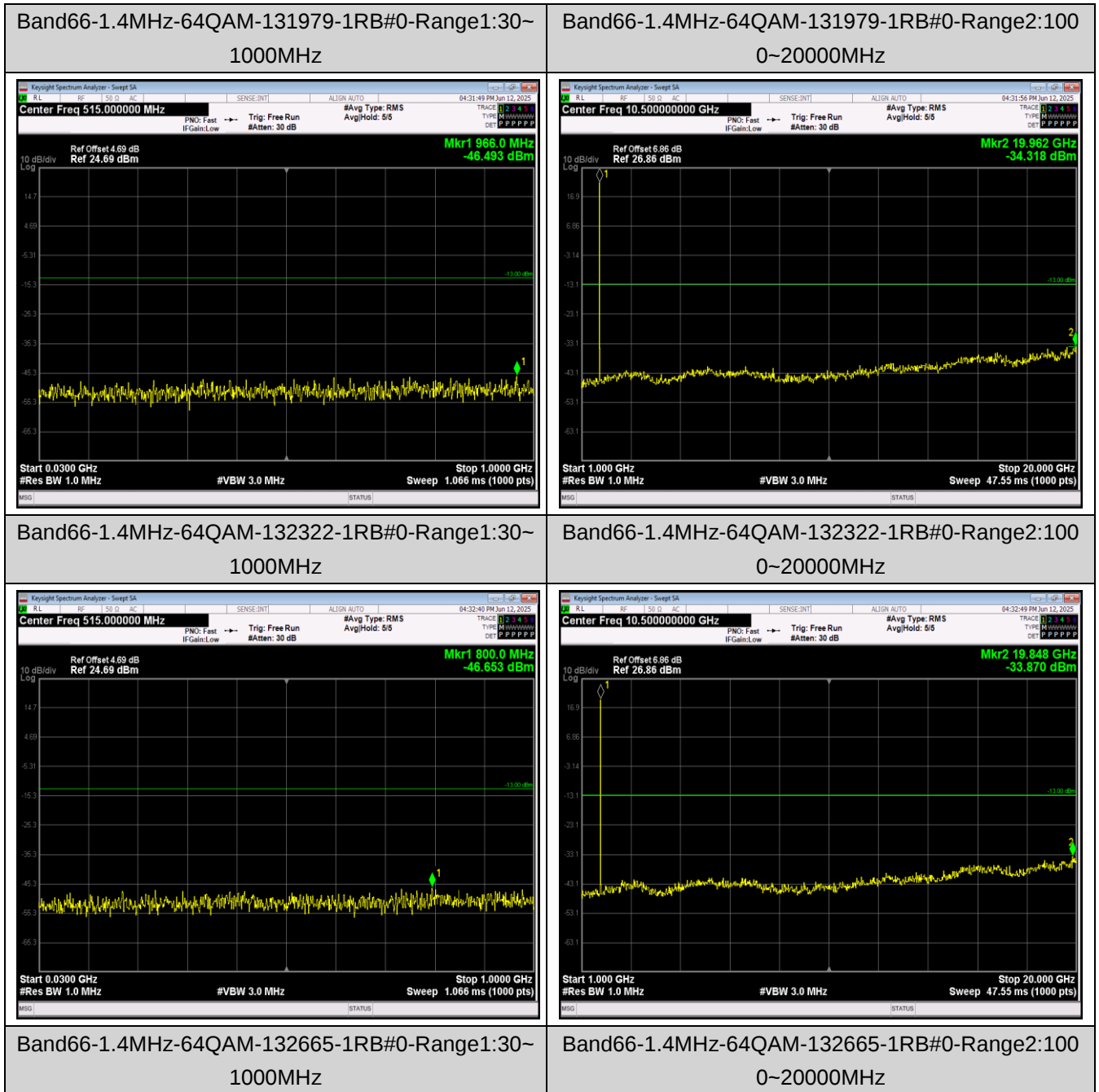
Band41-20MHz-64QAM-41140-1RB#0-Range2:1000~26500MHz

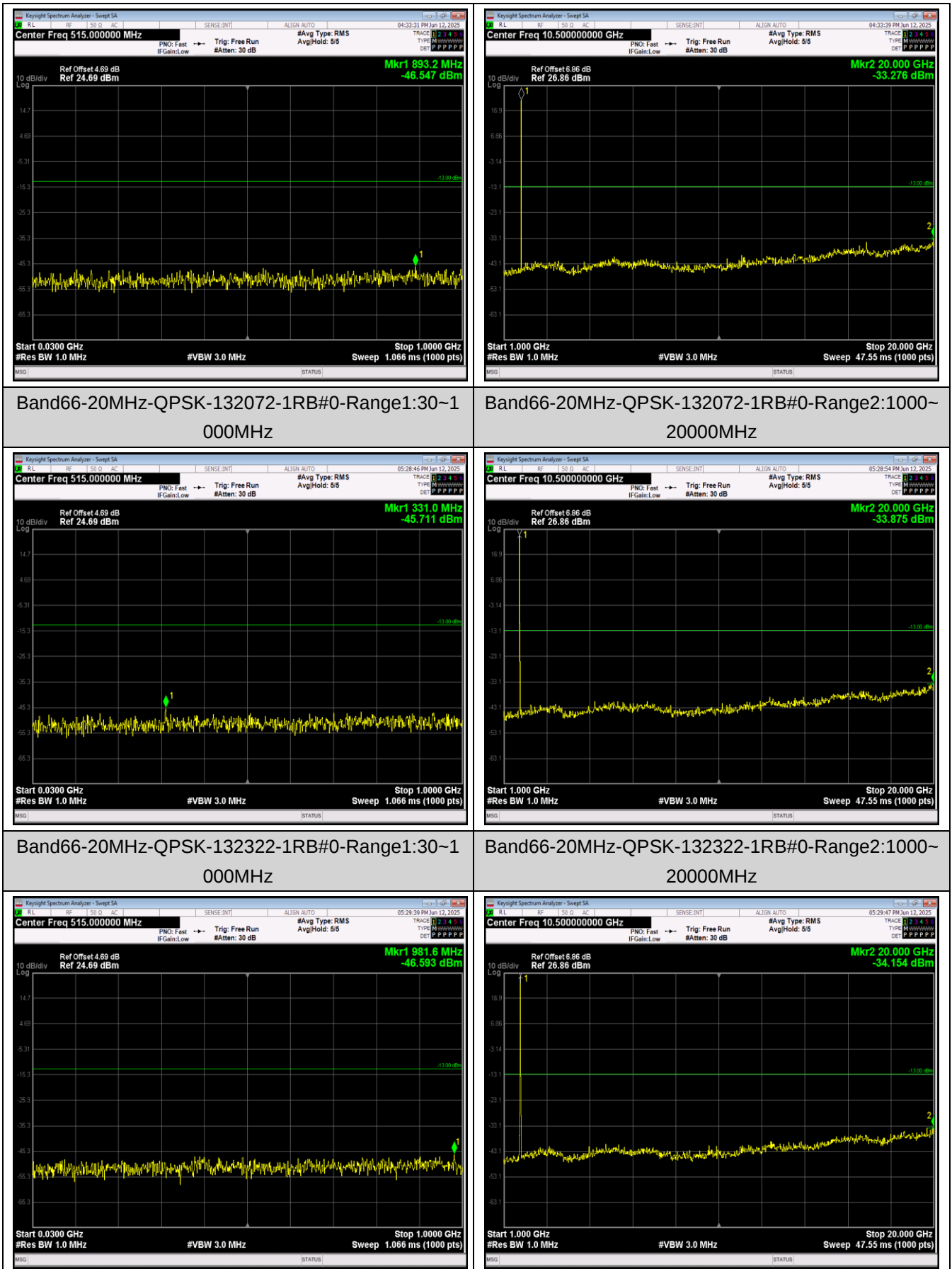
Band66-1.4MHz-QPSK-131979-1RB#0-Range1:30~1000MHz

Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000~20000MHz

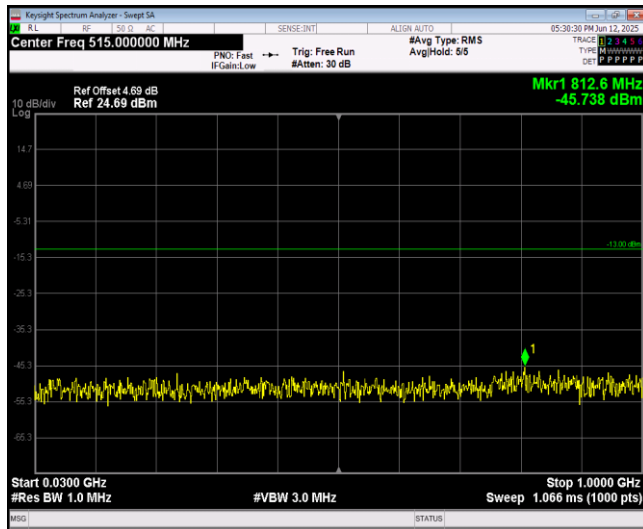




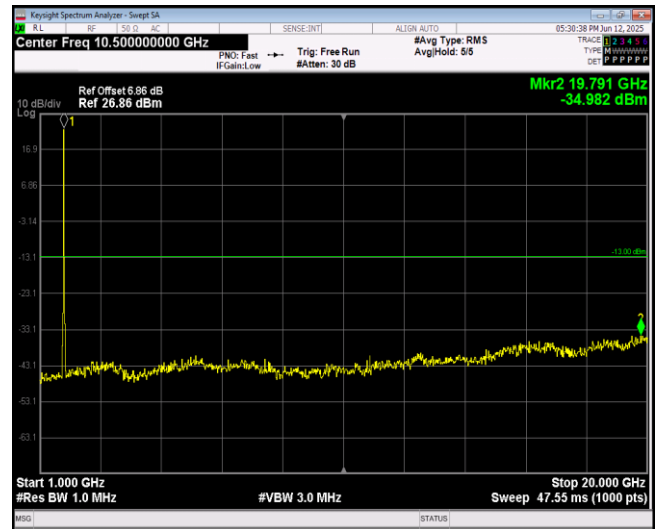




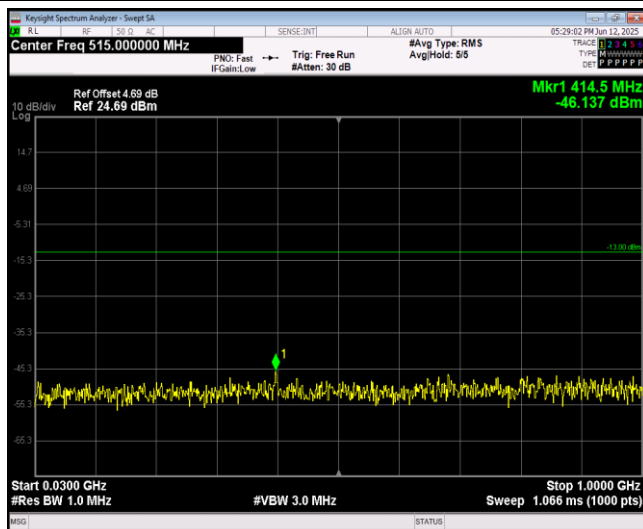
Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1
000MHz



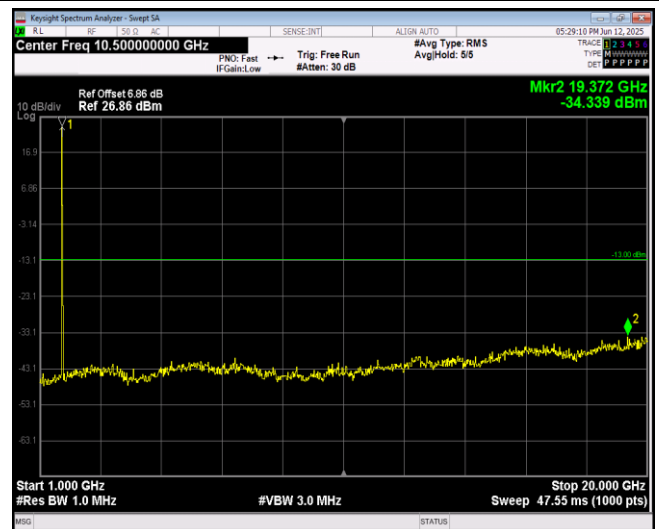
Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~
20000MHz



Band66-20MHz-16QAM-132072-1RB#0-Range1:30~
1000MHz



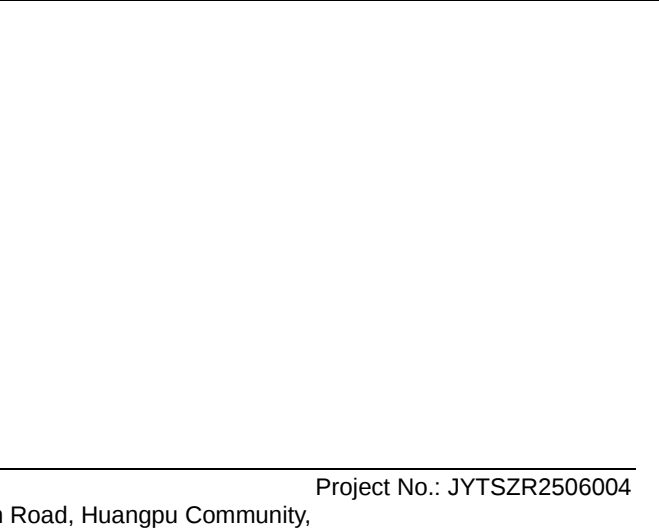
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~20000MHz

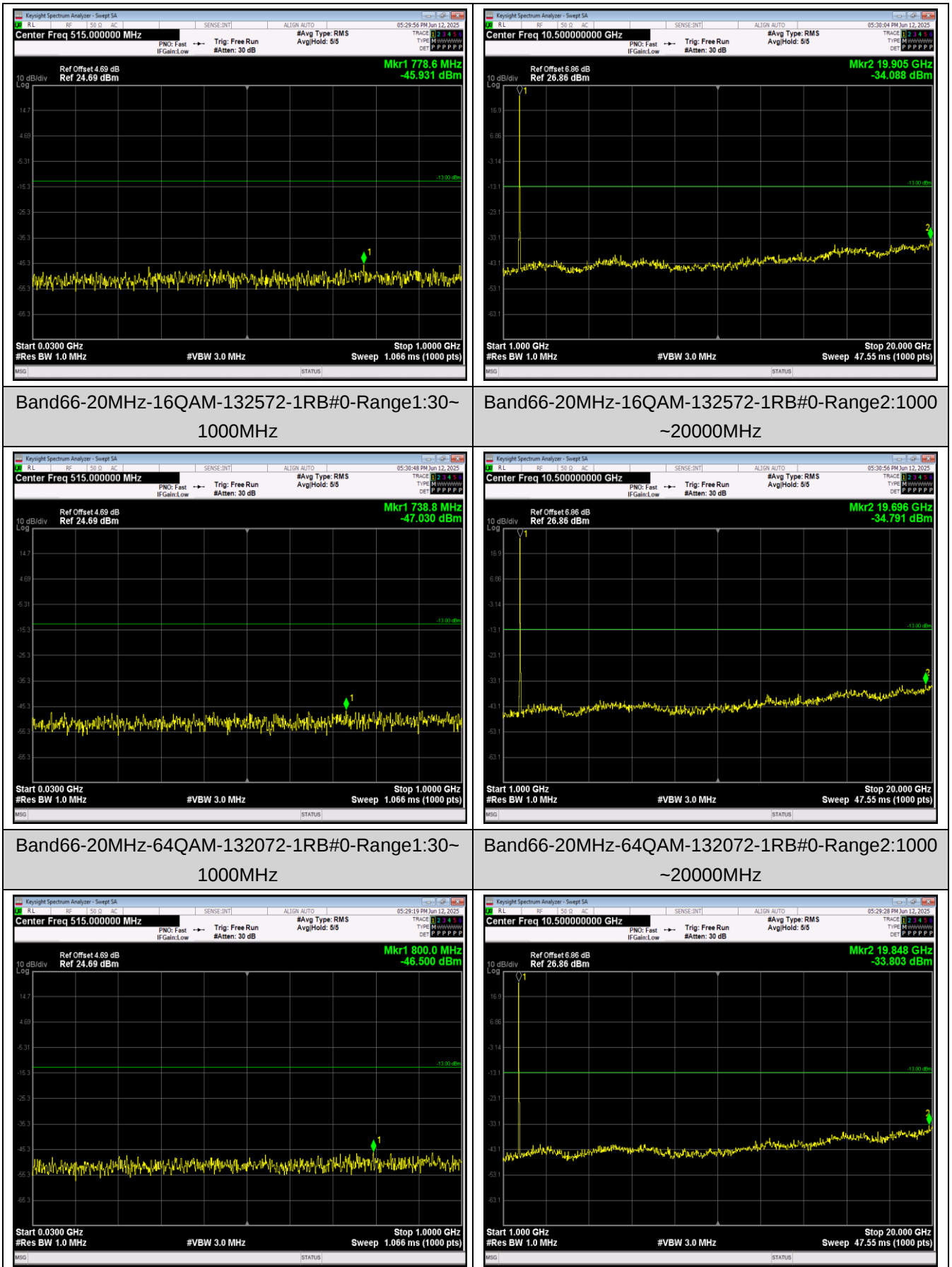


Band66-20MHz-16QAM-132322-1RB#0-Range1:30~
1000MHz

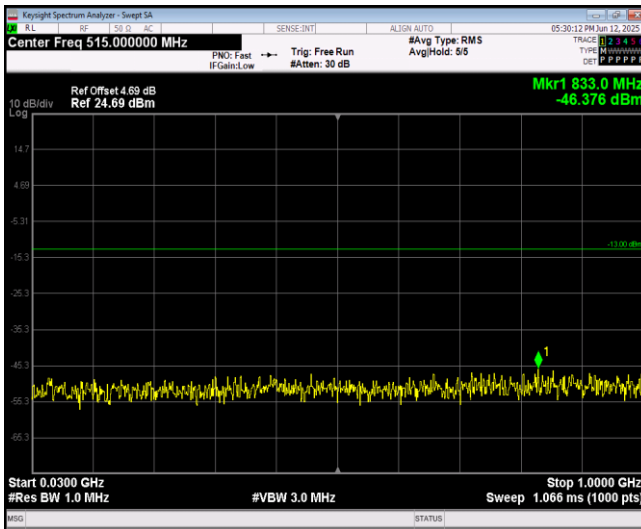


Band66-20MHz-16QAM-132322-1RB#0-Range2:1000
~20000MHz

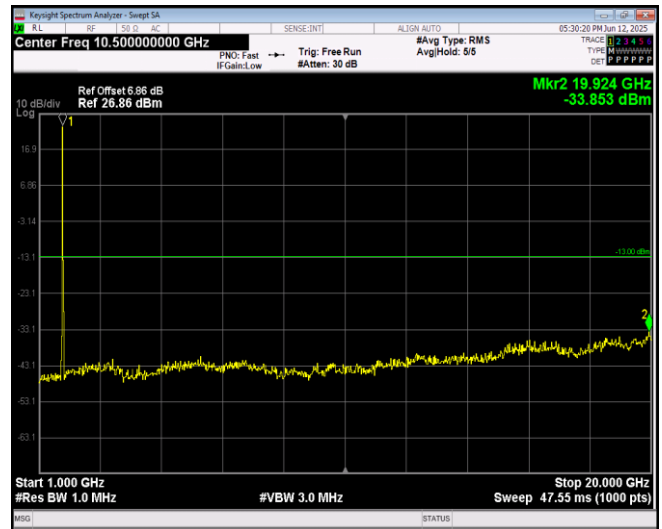




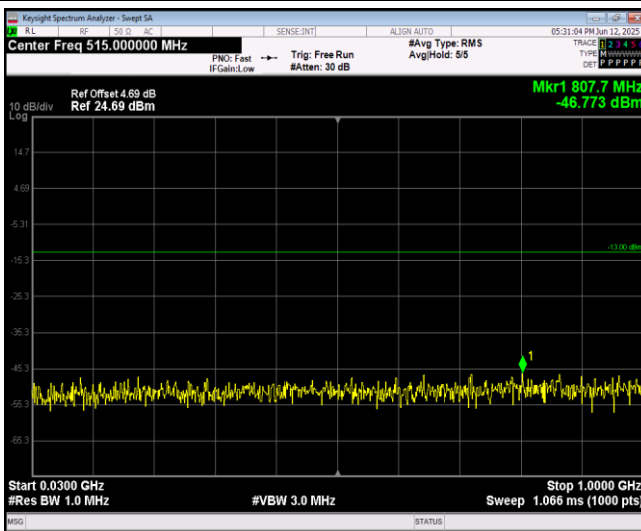
Band66-20MHz-64QAM-132322-1RB#0-Range1:30~
1000MHz



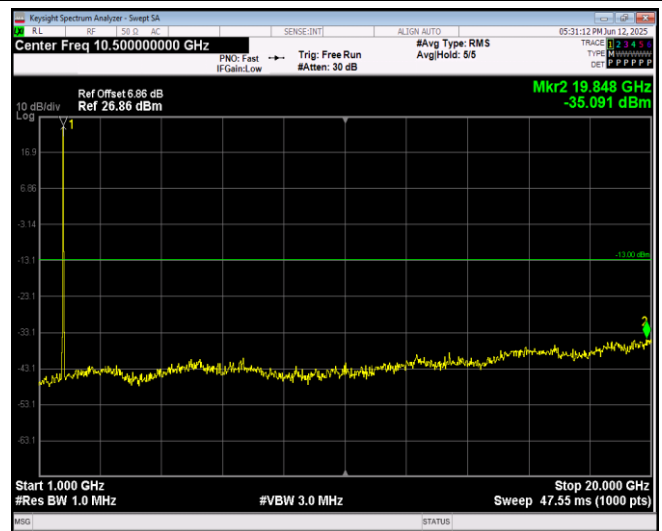
Band66-20MHz-64QAM-132322-1RB#0-Range2:1000
~20000MHz



Band66-20MHz-64QAM-132572-1RB#0-Range1:30~
1000MHz



Band66-20MHz-64QAM-132572-1RB#0-Range2:1000
~20000MHz



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					
3.92	-30	-7.15	-0.003803	Within authorized band for Band 2	Pass
	-20	-4.31	-0.002293		
	-10	2.52	0.001340		
	0	-7.77	-0.004133		
	10	-5.04	-0.002681		
	20	7.77	0.004133		
	30	-7.79	-0.004144		
	40	-24.16	-0.012851		
	50	-10.05	-0.005346		
16QAM					
3.92	-30	2.95	0.001569	Within authorized band for Band 2	Pass
	-20	-7.43	-0.003952		
	-10	-3.87	-0.002059		
	0	-6.55	-0.003484		
	10	-14.04	-0.007468		
	20	-6.08	-0.003234		
	30	3.19	0.001697		
	40	-7.27	-0.003867		
	50	-5.83	-0.003101		
64QAM					
3.92	-30	5.39	0.002867	Within authorized band for Band 2	Pass
	-20	-11.04	-0.005872		
	-10	-7.50	-0.003989		
	0	-12.10	-0.006436		
	10	-9.63	-0.005122		
	20	-8.25	-0.004388		
	30	-7.73	-0.004112		
	40	-7.09	-0.003771		
	50	4.02	0.002138		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.93	-0.005282	Within authorized band for Band 2	Pass
	3.92	-2.03	-0.001080		
	4.53	-7.86	-0.004181		
16QAM					
25	3.45	5.12	0.002723	Within authorized band for Band 2	Pass
	3.92	5.25	0.002793		
	4.53	-5.31	-0.002824		
64QAM					
25	3.45	-8.41	-0.004473	Within authorized band for Band 2	Pass
	3.92	8.73	0.004644		
	4.53	2.70	0.001436		
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					
3.92	-30	3.66	0.002113	Within authorized band for Band 4	Pass
	-20	4.42	0.002551		
	-10	6.60	0.003810		
	0	3.33	0.001922		
	10	-3.59	-0.002072		
	20	4.60	0.002655		
	30	5.54	0.003198		
	40	4.05	0.002338		
	50	6.24	0.003602		
16QAM					
3.92	-30	7.63	0.004404	Within authorized band for Band 4	Pass
	-20	7.26	0.004190		
	-10	2.33	0.001345		
	0	8.41	0.004854		
	10	6.38	0.003683		
	20	3.61	0.002084		
	30	3.35	0.001934		
	40	5.95	0.003434		
	50	3.21	0.001853		
64QAM					
3.92	-30	3.43	0.001980	Within authorized band for Band 4	Pass
	-20	-4.93	-0.002846		
	-10	5.06	0.002921		
	0	4.13	0.002384		
	10	-7.39	-0.004266		
	20	-6.79	-0.003919		
	30	-4.13	-0.002384		
	40	-1.33	-0.000768		
	50	-7.13	-0.004115		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-4.58	-0.002644	Within authorized band for Band 4	Pass
	3.92	-4.09	-0.002361		
	4.53	2.12	0.001224		
16QAM					
25	3.45	-4.02	-0.002320	Within authorized band for Band 4	Pass
	3.92	5.16	0.002978		
	4.53	-4.84	-0.002794		
64QAM					
25	3.45	-5.24	-0.003025	Within authorized band for Band 4	Pass
	3.92	7.08	0.004087		
	4.53	4.21	0.002430		
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					
3.92	-30	3.13	0.003742	±2.5	Pass
	-20	2.31	0.002762		
	-10	-3.06	-0.003658		
	0	-5.48	-0.006551		
	10	-2.74	-0.003276		
	20	-3.12	-0.003730		
	30	4.71	0.005631		
	40	-5.40	-0.006455		
	50	3.96	0.004734		
16QAM					
3.92	-30	-3.65	-0.004363	±2.5	Pass
	-20	-2.28	-0.002726		
	-10	-3.34	-0.003993		
	0	-3.90	-0.004662		
	10	2.18	0.002606		
	20	-3.79	-0.004531		
	30	-2.85	-0.003407		
	40	1.82	0.002176		
	50	-1.69	-0.002020		
64QAM					
3.92	-30	-3.29	-0.003933	±2.5	Pass
	-20	1.54	0.001841		
	-10	-4.88	-0.005834		
	0	-6.97	-0.008332		
	10	-3.94	-0.004710		
	20	-5.81	-0.006946		
	30	-6.41	-0.007663		
	40	-3.79	-0.004531		
	50	-3.70	-0.004423		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.94	-0.004710	±2.5	Pass
	3.92	-5.23	-0.006252		
	4.53	-4.30	-0.005140		
16QAM					
25	3.45	-3.59	-0.004292	±2.5	Pass
	3.92	-4.65	-0.005559		
	4.53	-3.92	-0.004686		
64QAM					
25	3.45	-1.53	-0.001829	±2.5	Pass
	3.92	-2.46	-0.002941		
	4.53	-6.33	-0.007567		
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					
3.92	-30	4.49	0.001771	Within authorized band for Band 7	Pass
	-20	5.20	0.002051		
	-10	-4.61	-0.001819		
	0	3.07	0.001211		
	10	2.98	0.001176		
	20	-12.09	-0.004769		
	30	-4.67	-0.001842		
	40	-11.79	-0.004651		
	50	8.19	0.003231		
16QAM					
3.92	-30	-7.41	-0.002923	Within authorized band for Band 7	Pass
	-20	7.72	0.003045		
	-10	-4.66	-0.001838		
	0	-11.80	-0.004655		
	10	-14.92	-0.005886		
	20	-6.96	-0.002746		
	30	2.24	0.000884		
	40	7.56	0.002982		
	50	-7.50	-0.002959		
64QAM					
3.92	-30	-9.65	-0.003807	Within authorized band for Band 7	Pass
	-20	7.45	0.002939		
	-10	15.11	0.005961		
	0	-9.89	-0.003901		
	10	4.48	0.001767		
	20	11.34	0.004473		
	30	-4.42	-0.001744		
	40	-6.50	-0.002564		
	50	-13.30	-0.005247		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	3.79	0.001495	Within authorized band for Band 7	Pass
	3.92	-5.35	-0.002110		
	4.53	8.44	0.003329		
16QAM					
25	3.45	9.07	0.003578	Within authorized band for Band 7	Pass
	3.92	-10.47	-0.004130		
	4.53	-3.16	-0.001247		
64QAM					
25	3.45	-10.88	-0.004292	Within authorized band for Band 7	Pass
	3.92	-10.02	-0.003953		
	4.53	-5.40	-0.002130		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

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					
3.92	-30	-5.78	-0.008170	Within authorized band for Band 12	Pass
	-20	-2.55	-0.003604		
	-10	-2.10	-0.002968		
	0	3.32	0.004693		
	10	-3.79	-0.005357		
	20	2.66	0.003760		
	30	3.61	0.005102		
	40	2.56	0.003618		
	50	3.19	0.004509		
16QAM					
3.92	-30	2.92	0.004127	Within authorized band for Band 12	Pass
	-20	1.92	0.002714		
	-10	-4.82	-0.006813		
	0	-4.37	-0.006177		
	10	-2.63	-0.003717		
	20	-5.38	-0.007604		
	30	2.47	0.003491		
	40	-5.12	-0.007237		
	50	2.44	0.003449		
64QAM					
3.92	-30	-3.30	-0.004664	Within authorized band for Band 12	Pass
	-20	1.86	0.002629		
	-10	3.57	0.005046		
	0	-2.93	-0.004141		
	10	-2.85	-0.004028		
	20	-2.17	-0.003067		
	30	6.75	0.009541		
	40	-1.23	-0.001739		
	50	-4.66	-0.006587		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	3.22	0.004551	Within authorized band for Band 12	Pass
	3.92	-1.66	-0.002346		
	4.53	-1.47	-0.002078		
16QAM					
25	3.45	-2.69	-0.003802	Within authorized band for Band 12	Pass
	3.92	-3.00	-0.004240		
	4.53	-6.75	-0.009541		
64QAM					
25	3.45	-5.17	-0.007307	Within authorized band for Band 12	Pass
	3.92	3.95	0.005583		
	4.53	-2.96	-0.004184		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-3.73	-0.005254	Within authorized band for Band 17	Pass
	-20	-5.27	-0.007423		
	-10	-5.54	-0.007803		
	0	-2.08	-0.002930		
	10	-5.09	-0.007169		
	20	-6.80	-0.009577		
	30	-4.93	-0.006944		
	40	2.25	0.003169		
	50	2.96	0.004169		
16QAM					
3.92	-30	1.22	0.001718	Within authorized band for Band 17	Pass
	-20	-2.12	-0.002986		
	-10	-4.24	-0.005972		
	0	-4.27	-0.006014		
	10	3.17	0.004465		
	20	2.11	0.002972		
	30	-2.41	-0.003394		
	40	-4.60	-0.006479		
	50	-3.14	-0.004423		
64QAM					
3.92	-30	-4.14	-0.005831	Within authorized band for Band 17	Pass
	-20	-2.17	-0.003056		
	-10	-5.49	-0.007732		
	0	2.99	0.004211		
	10	-6.79	-0.009563		
	20	-3.55	-0.005000		
	30	-5.64	-0.007944		
	40	1.40	0.001972		
	50	-3.69	-0.005197		