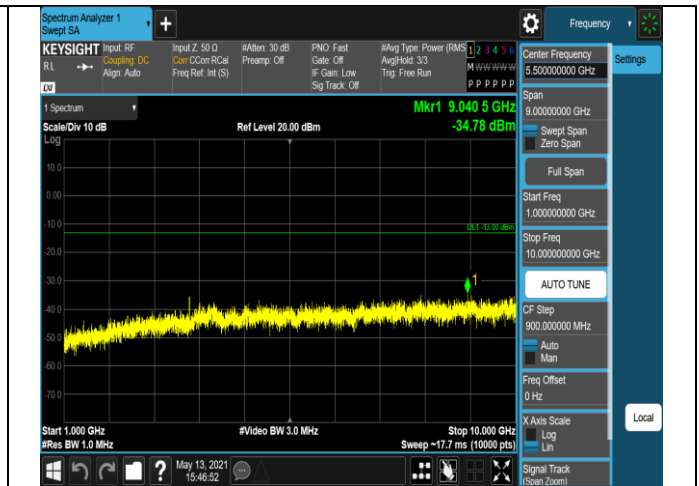
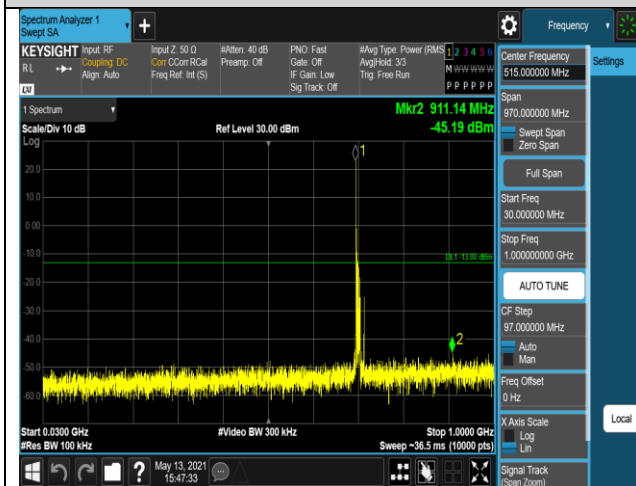


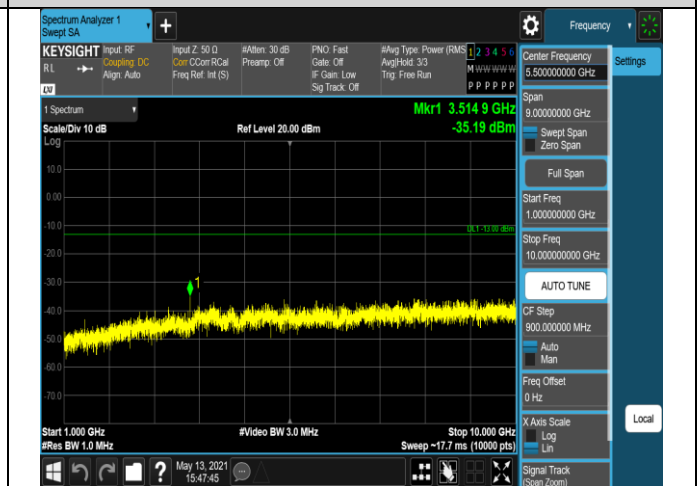
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



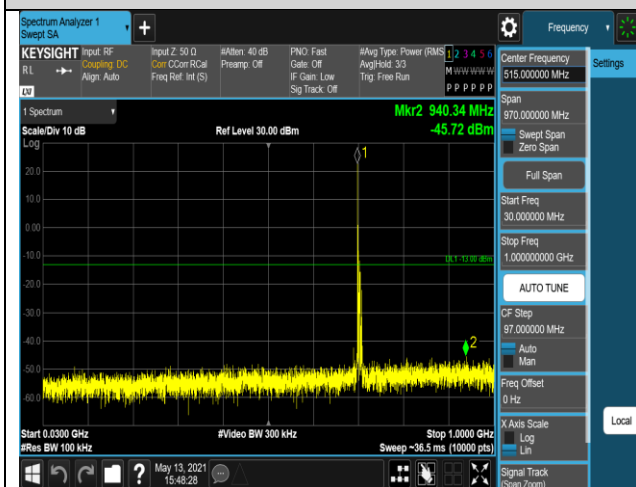
Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~1000MHz



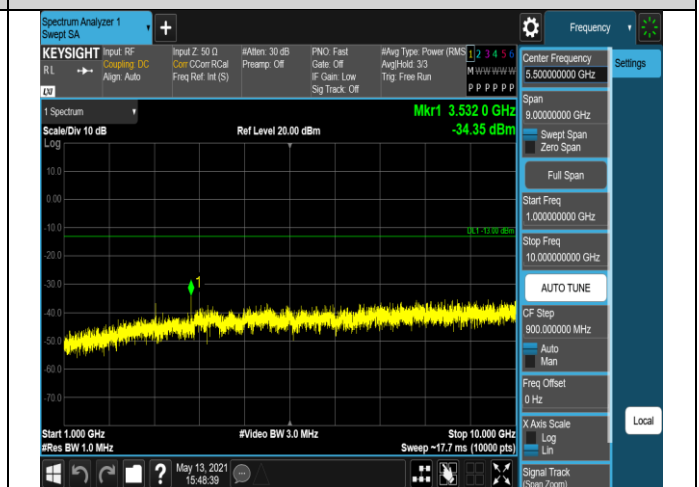
Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



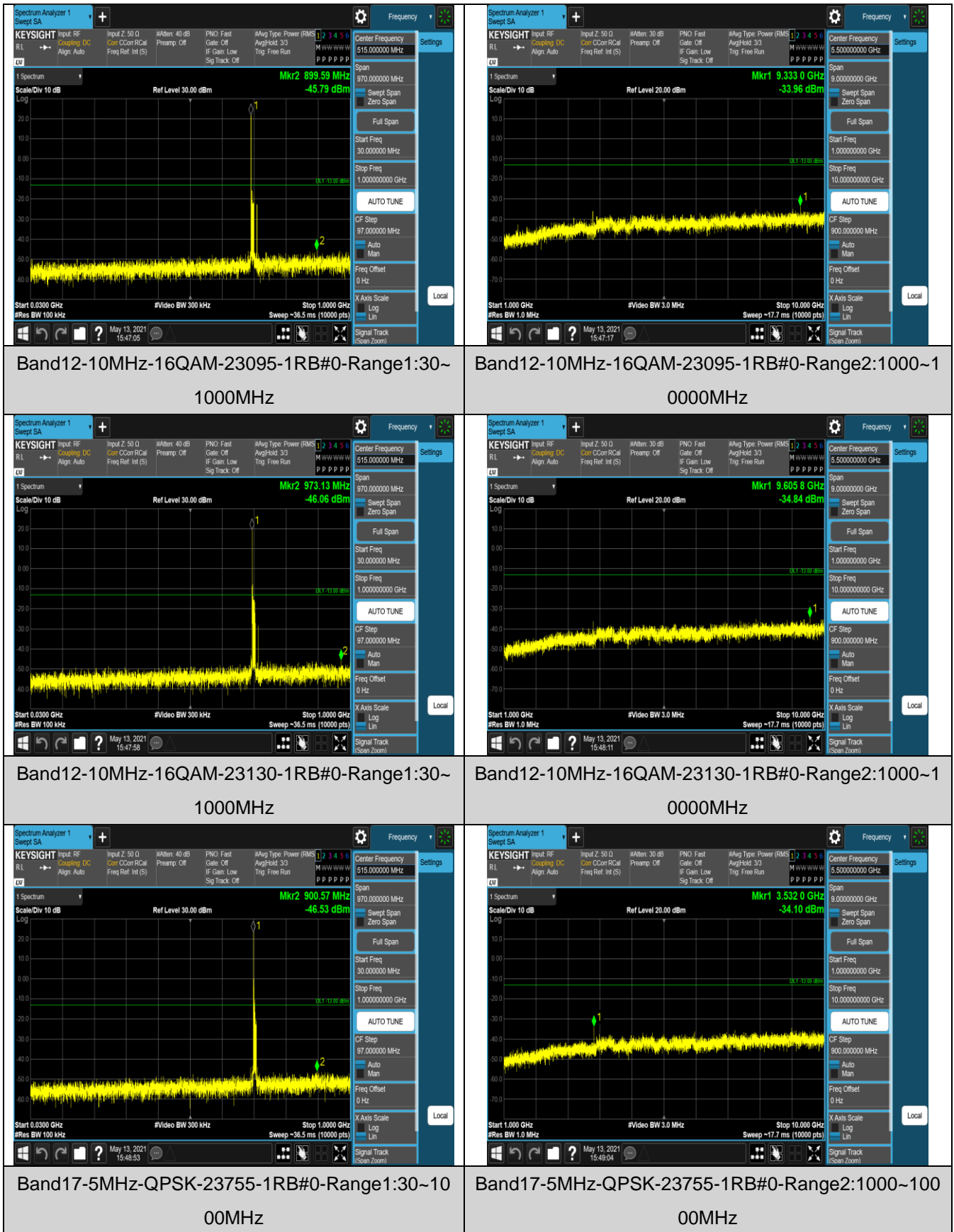
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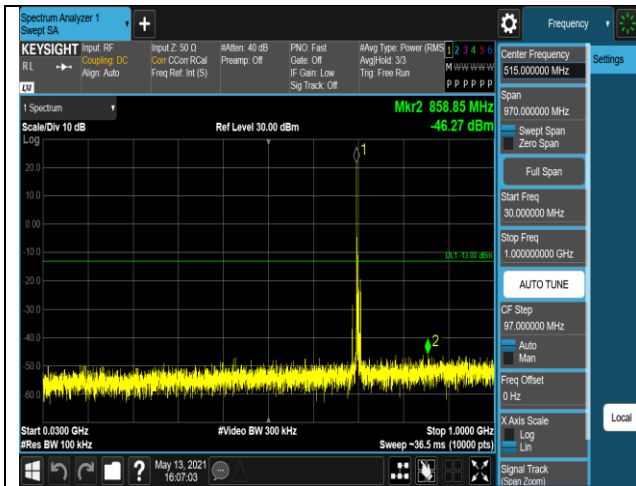


Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz

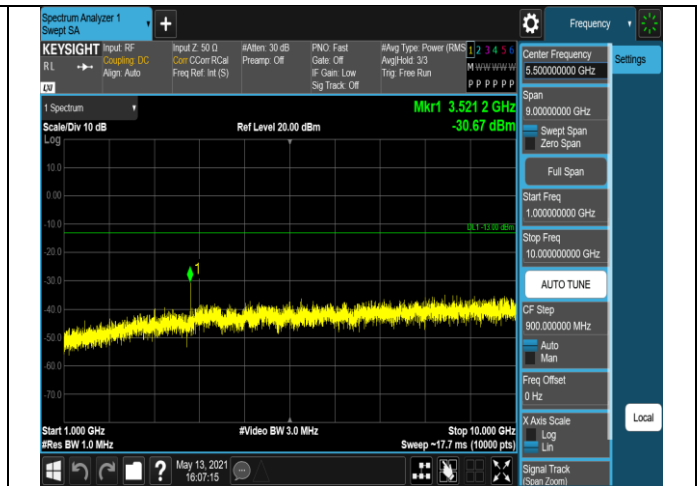


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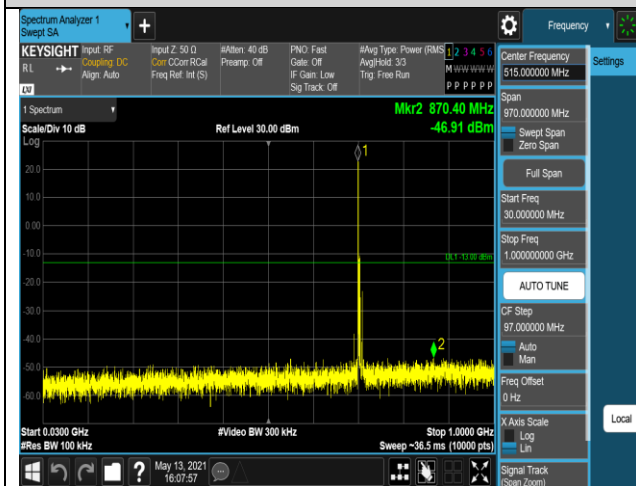




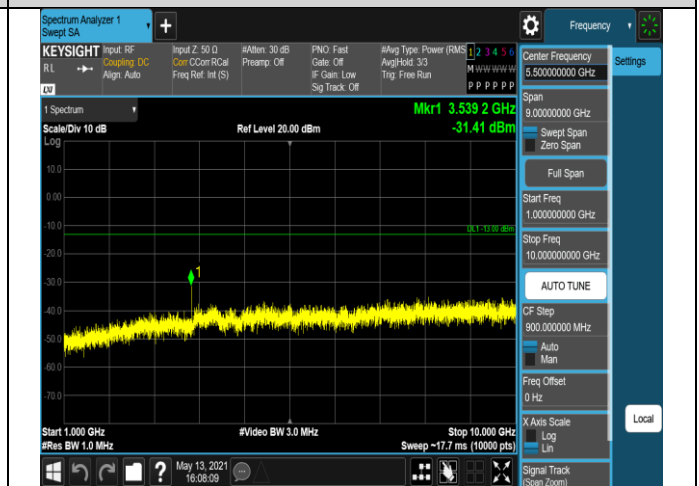
Band17-5MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



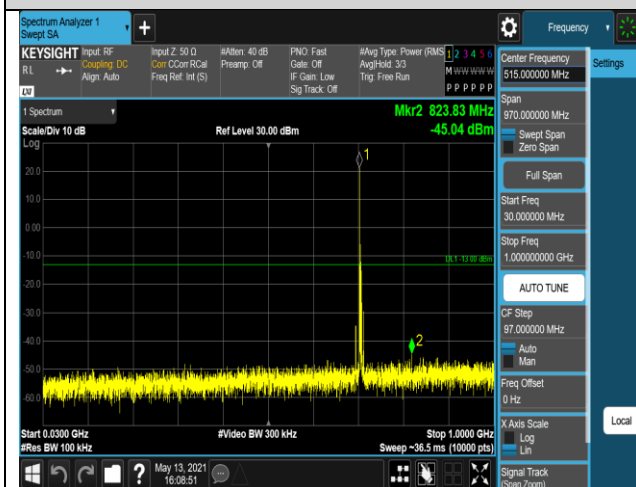
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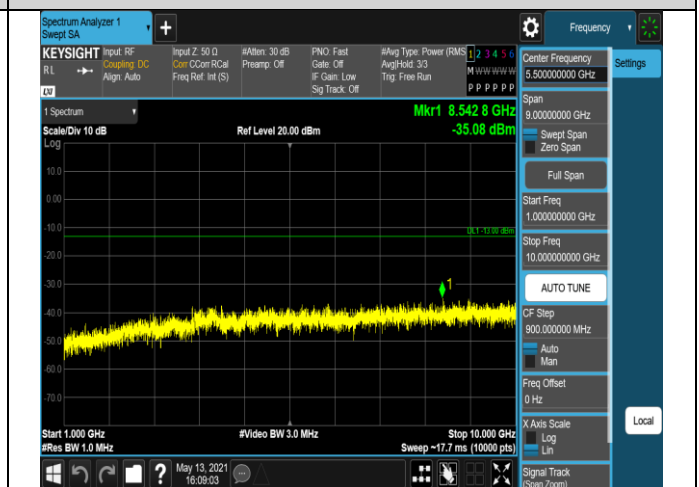
Band17-5MHz-QPSK-23825-1RB#0-Range1:30~1000MHz



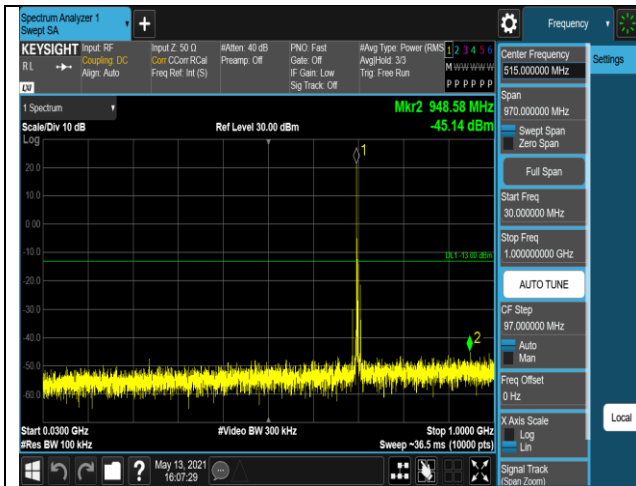
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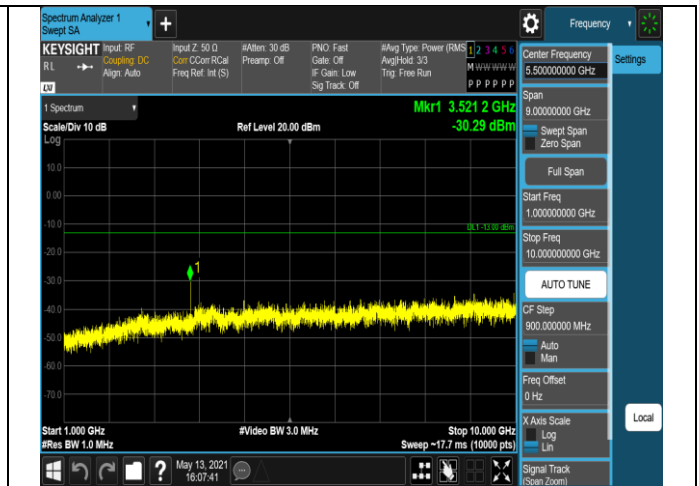
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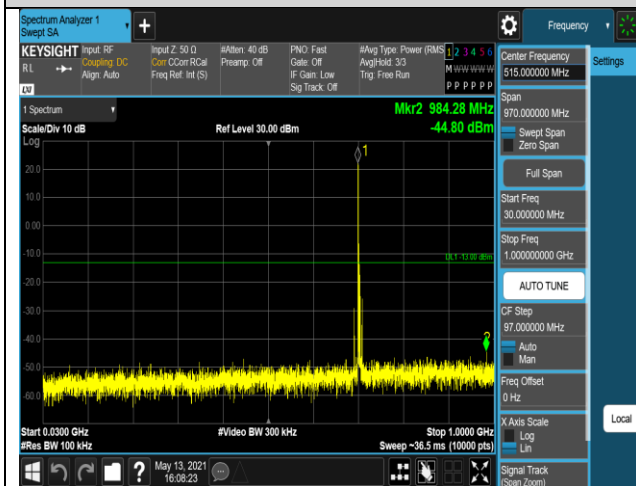
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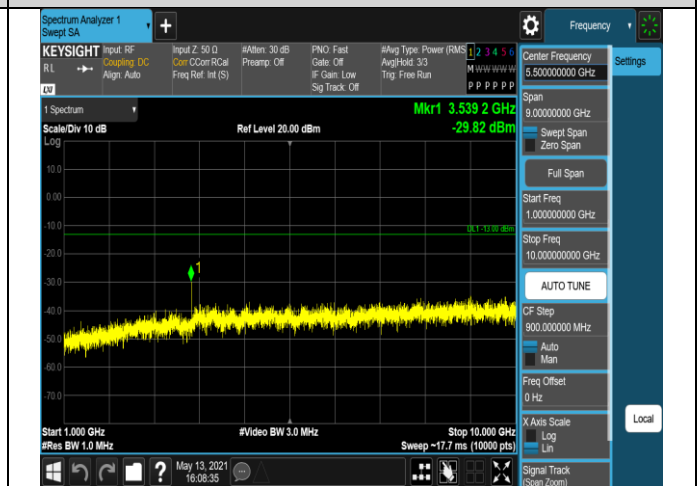
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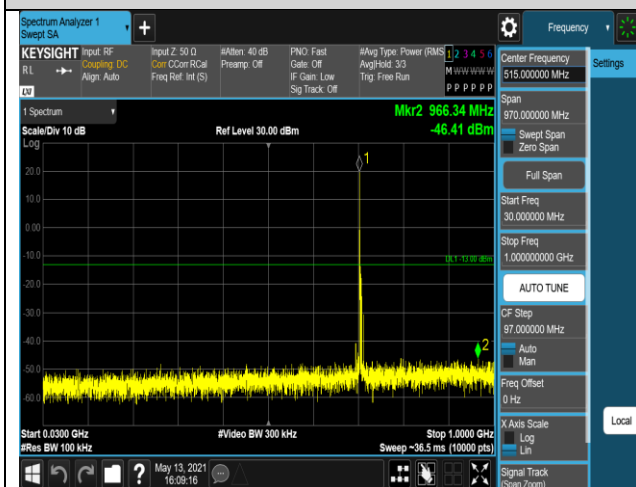
Band17-5MHz-16QAM-23790-1RB#0-Range2:1000~1000MHz



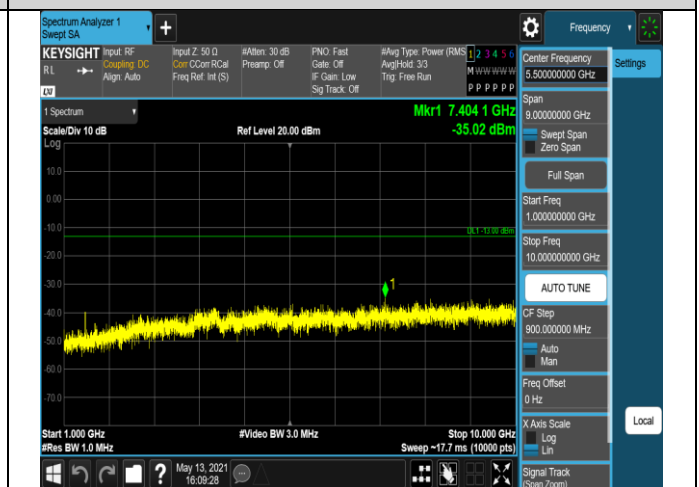
Band17-5MHz-16QAM-23825-1RB#0-Range1:30~1000MHz



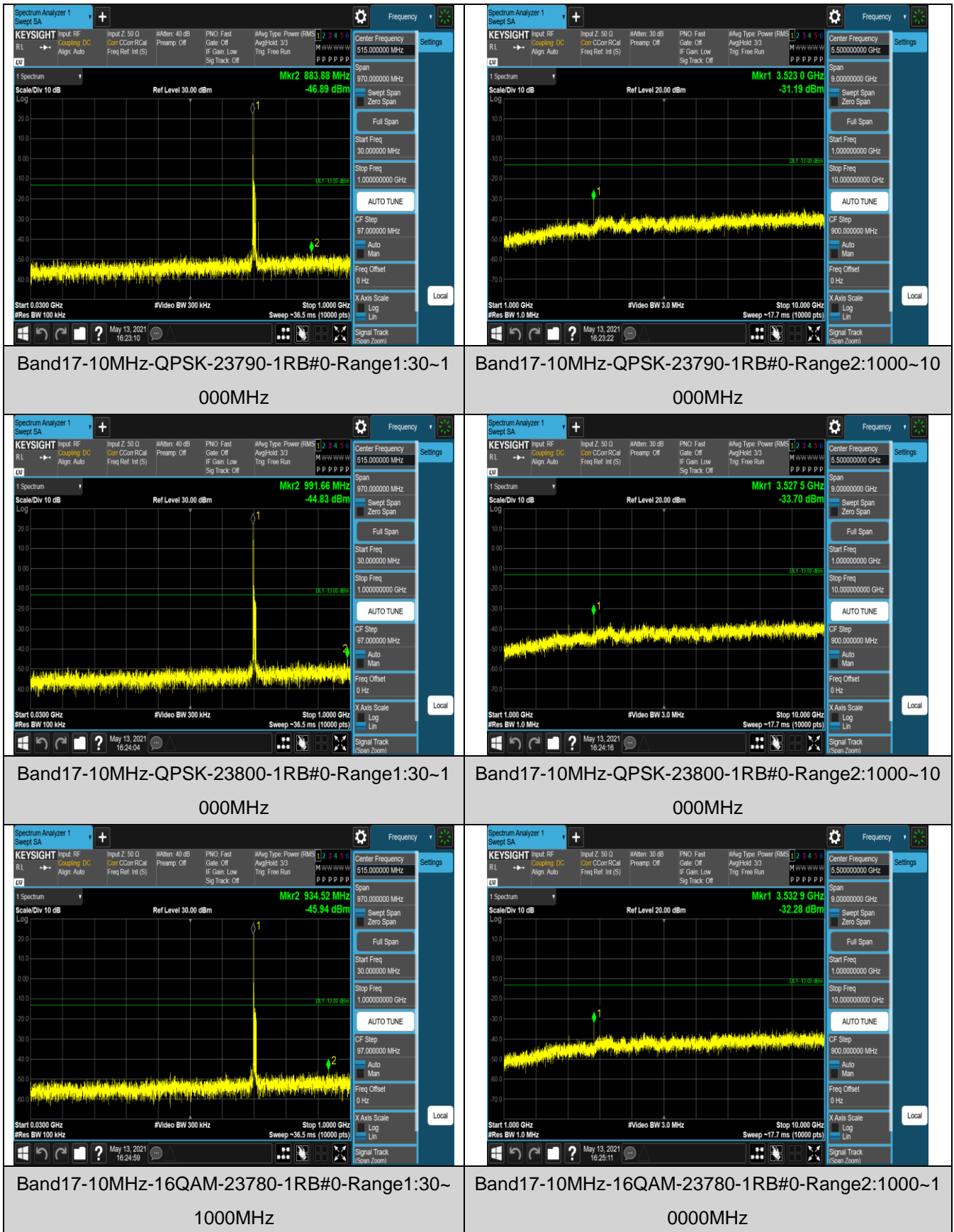
Band17-5MHz-16QAM-23825-1RB#0-Range2:1000~1000MHz

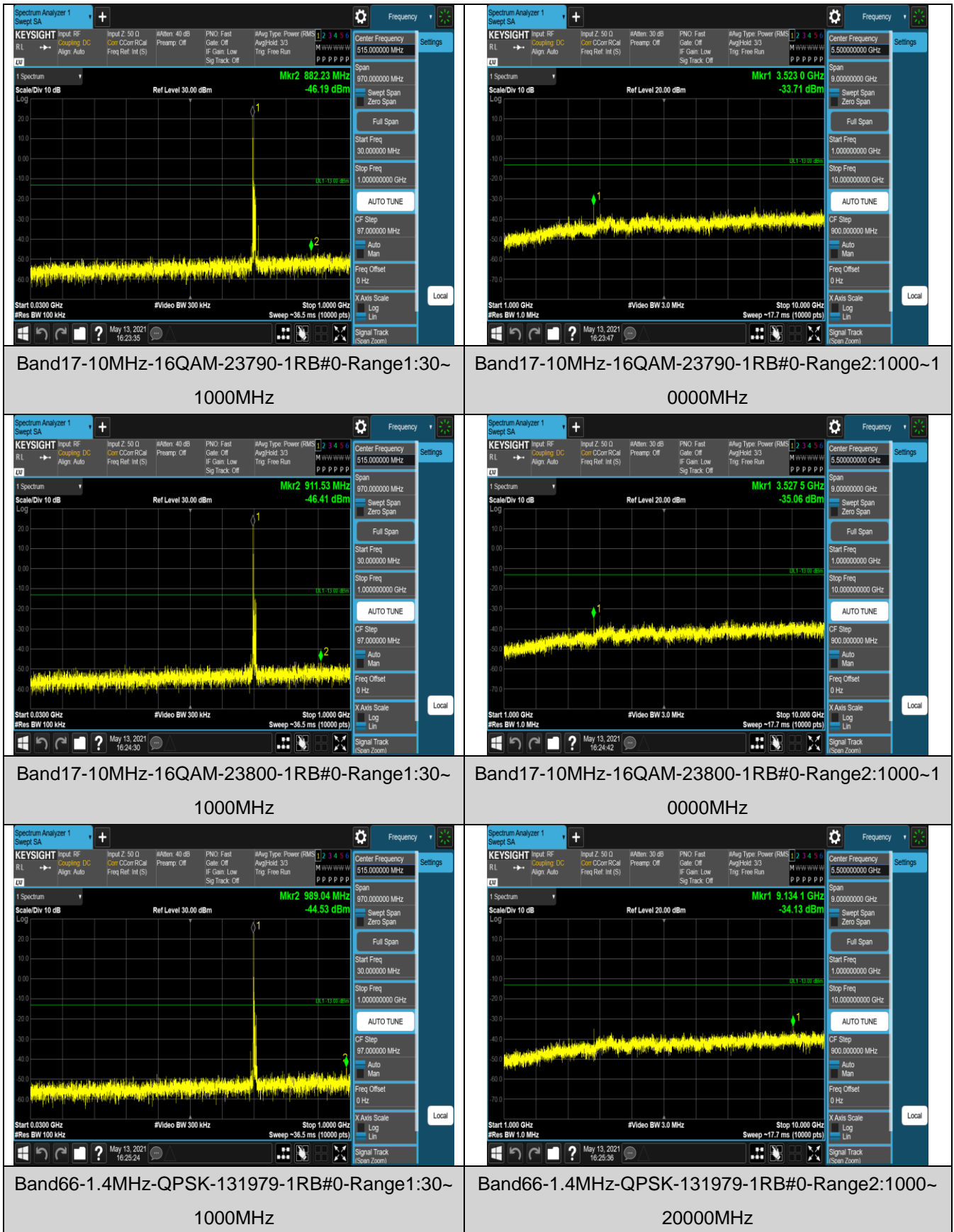


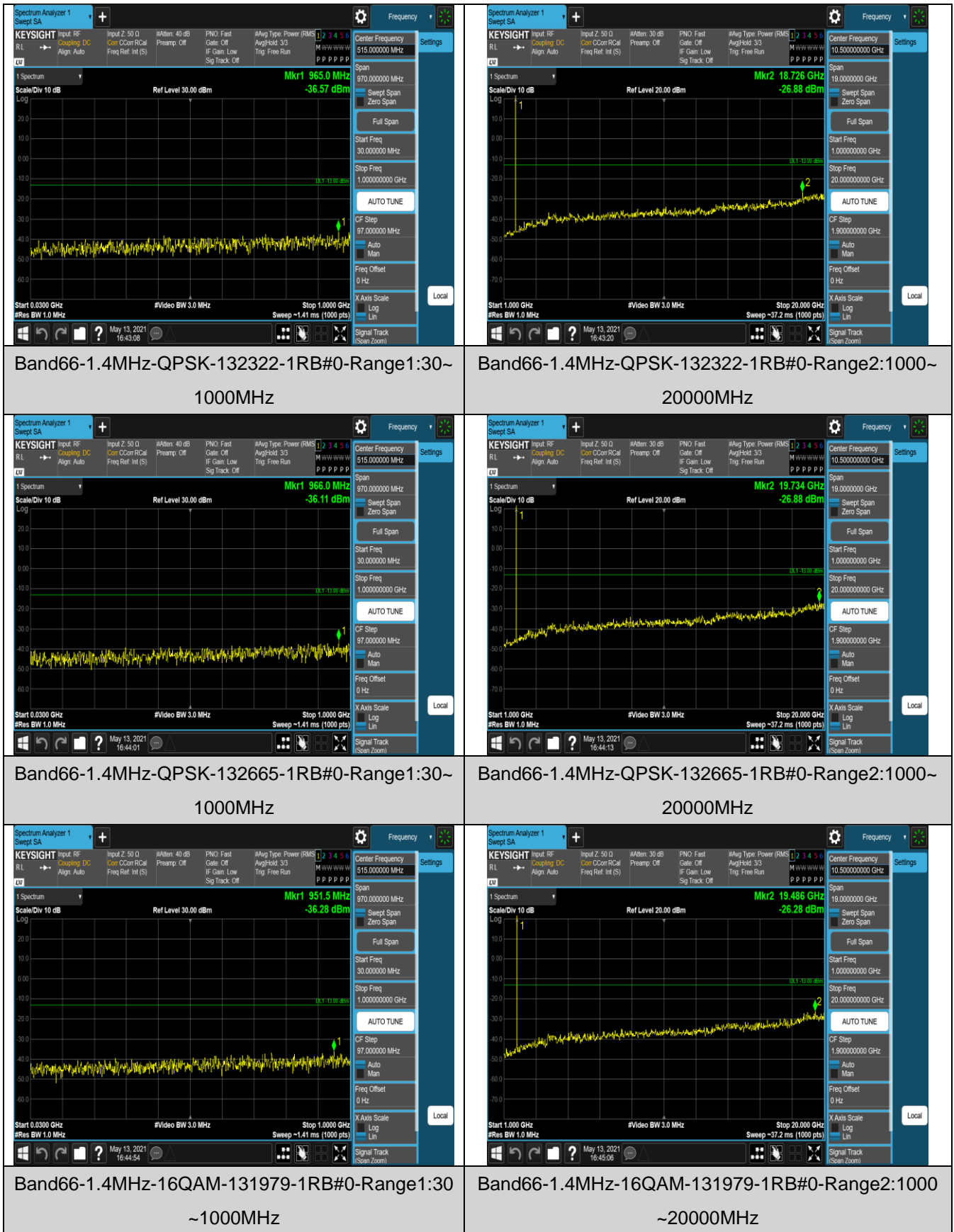
Band17-10MHz-QPSK-23780-1RB#0-Range1:30~1000MHz



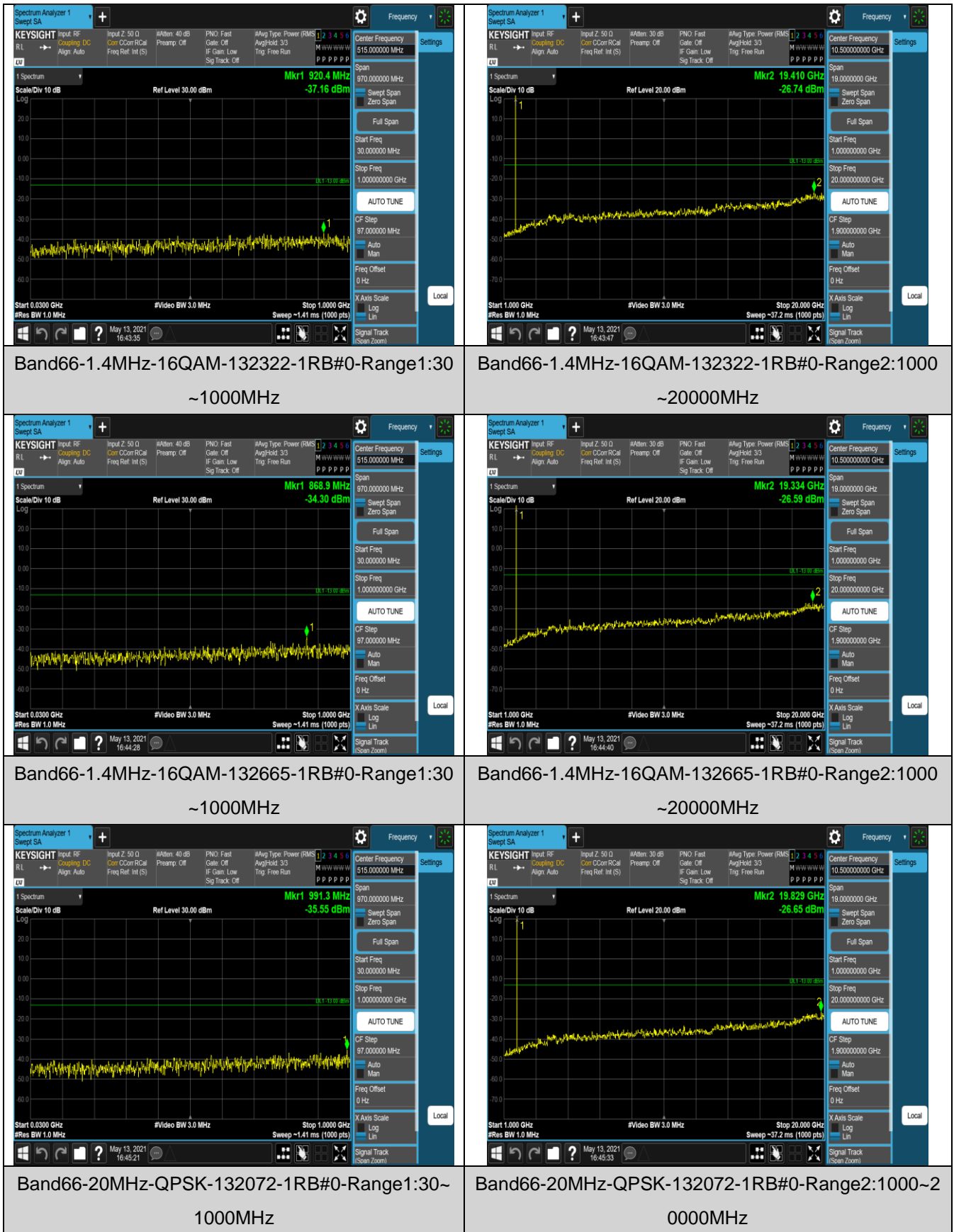
Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~1000MHz





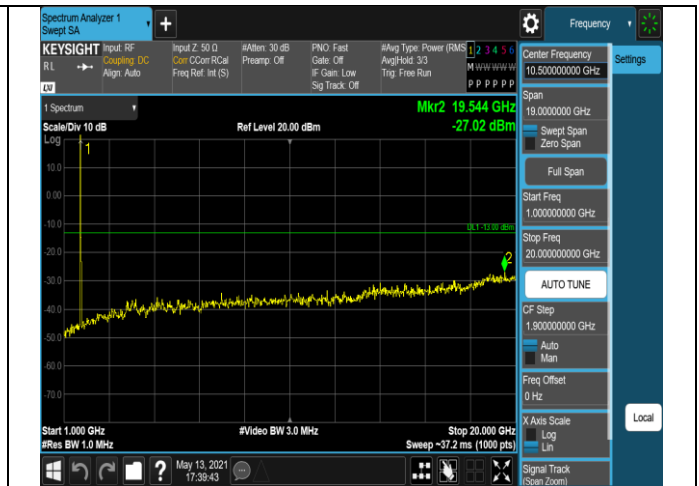








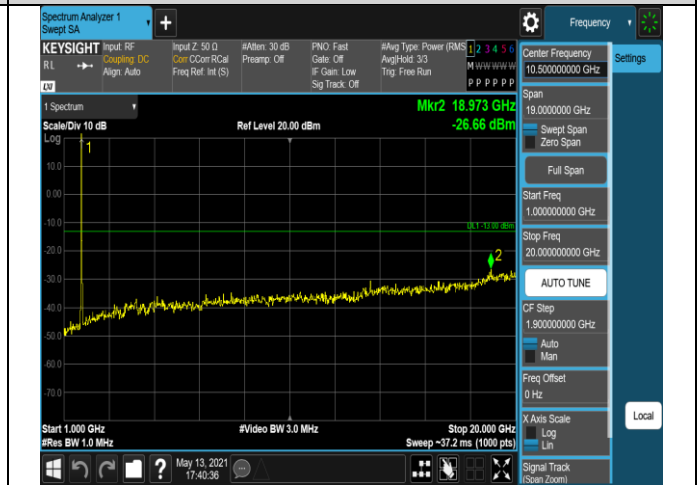
Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz



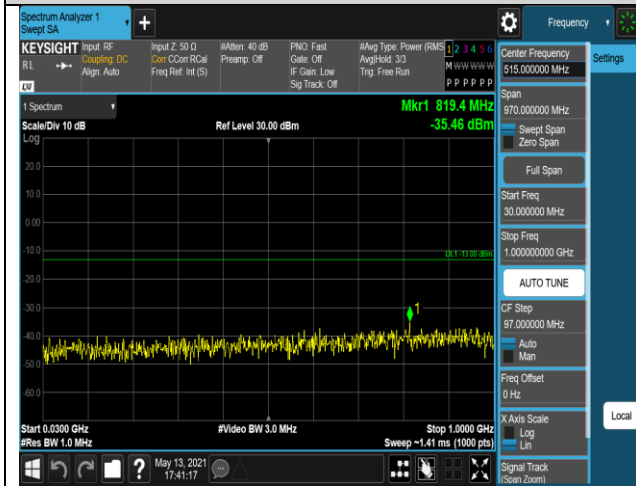
Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~2000MHz



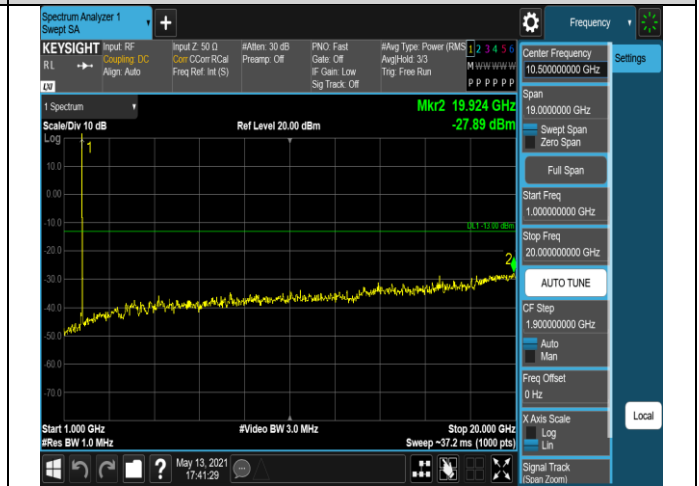
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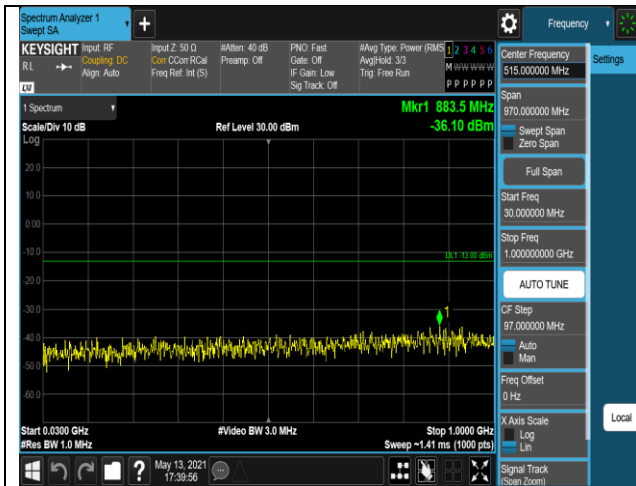
Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~2000MHz



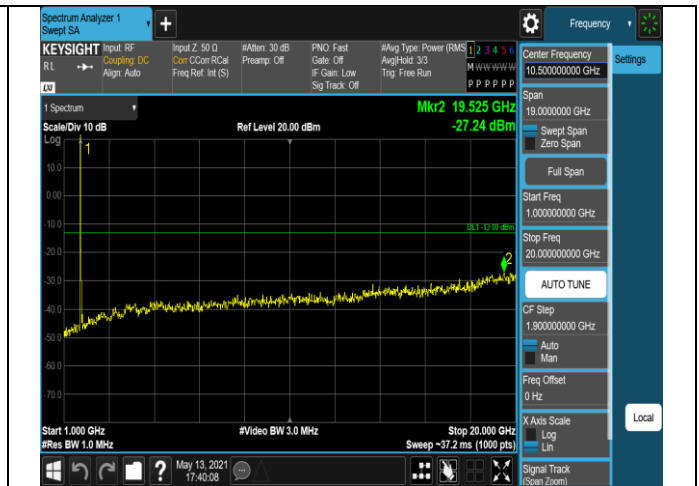
Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz



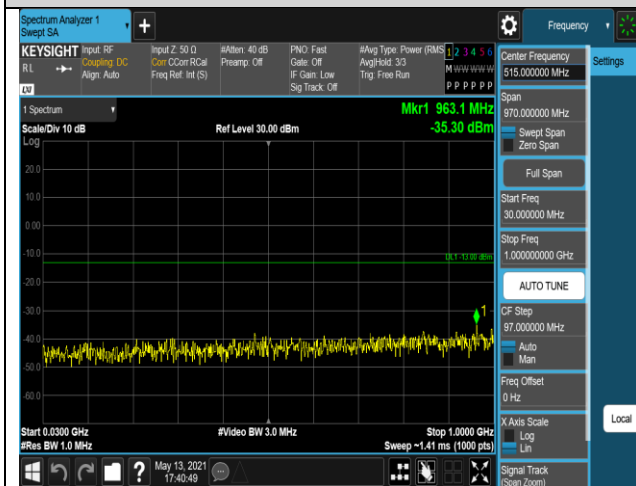
Band66-20MHz-16QAM-132072-1RB#0-Range2:1000~2000MHz



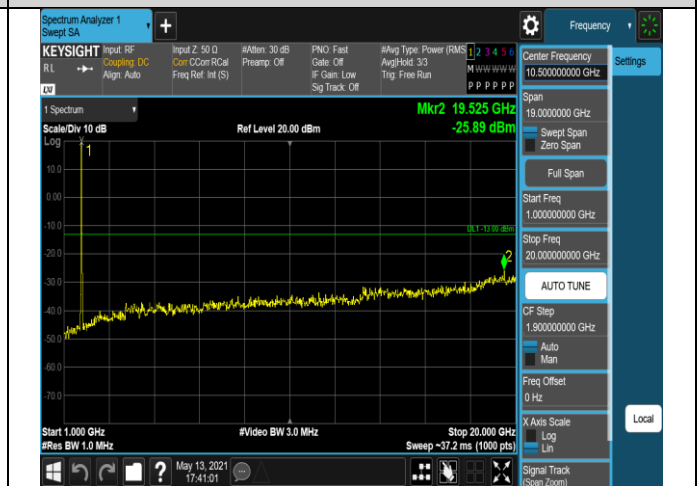
Band66-20MHz-16QAM-132322-1RB#0-Range1:30  
~1000MHz



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



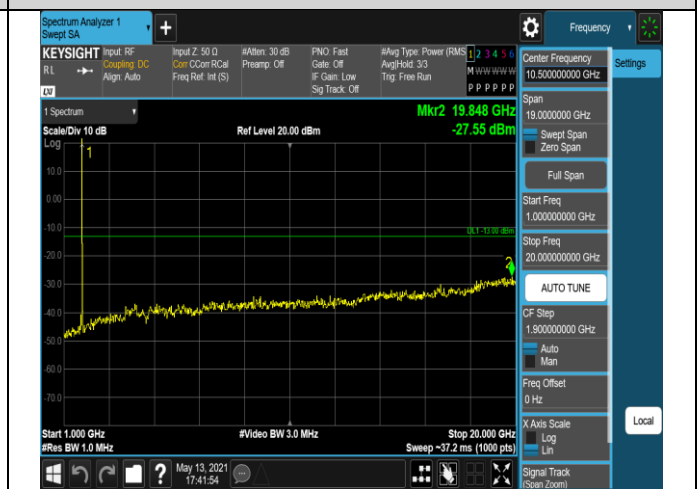
Band66-20MHz-16QAM-132572-1RB#0-Range1:30  
~1000MHz



Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~  
20000MHz



Band66-20MHz-16QAM-132572-1RB#0-Range1:30  
~1000MHz



Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~  
20000MHz

## Appendix F: Frequency Stability

### Test Result (Worst case):

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					
3.70	-30	-46.18	-0.024564	Within authorized band for Band 2	Pass
	-20	-31.83	-0.016931		
	-10	-37.94	-0.020181		
	0	-10.30	-0.005479		
	10	0.86	0.005245		
	20	-12.13	-0.006452		
	30	-10.36	-0.005511		
	40	-15.71	-0.008356		
	50	-31.44	-0.016723		
16QAM					
3.70	-30	12.07	0.006420	Within authorized band for Band 2	Pass
	-20	14.03	0.007463		
	-10	33.60	0.017872		
	0	29.38	0.015628		
	10	-6.09	-0.003239		
	20	-11.54	-0.006138		
	30	11.00	0.005851		
	40	9.31	0.004952		
	50	24.56	0.013064		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.25	-11.22	-0.005968	Within authorized band for Band 2	Pass
	3.70	44.47	0.023654		
	3.25	-51.34	-0.027309		
16QAM					
25	4.25	33.45	0.017793	Within authorized band for Band 2	Pass
	3.70	-6.57	-0.003495		
	3.25	34.22	0.018202		

Note: Only the worst case shown in the 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					
3.70	-30	-17.44	-0.010066	Within authorized band for Band 4	Pass
	-20	-33.70	-0.019452		
	-10	24.38	0.014072		
	0	13.46	0.007769		
	10	16.95	0.009784		
	20	4.05	0.002338		
	30	7.24	0.004179		
	40	3.33	0.001922		
	50	11.86	0.006846		
16QAM					
3.70	-30	40.73	0.023509	Within authorized band for Band 4	Pass
	-20	49.15	0.028369		
	-10	-14.45	-0.008341		
	0	-8.71	-0.005027		
	10	-3.30	-0.001905		
	20	8.31	0.004797		
	30	18.58	0.010724		
	40	18.22	0.010517		
	50	29.58	0.017074		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.25	30.08	0.017362	Within authorized band for Band 4	Pass
	3.70	36.59	0.021120		
	3.25	7.98	0.004606		
16QAM					
25	4.25	18.11	0.010453	Within authorized band for Band 4	Pass
	3.70	9.30	0.005368		
	3.25	26.32	0.015192		

Note: Only the worst case shown in the report.

## 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					
3.70	-30	-15.72	-0.018793	±2.5	Pass
	-20	-29.67	-0.035469		
	-10	-36.72	-0.043897		
	0	-19.98	-0.023885		
	10	-2.42	-0.002893		
	20	-24.35	-0.029109		
	30	-42.49	-0.050795		
	40	-17.51	-0.020932		
	50	-15.25	-0.018231		
16QAM					
3.70	-30	-7.05	-0.008428	±2.5	Pass
	-20	-9.64	-0.011524		
	-10	-8.00	-0.009564		
	0	-7.14	-0.008536		
	10	2.73	0.003264		
	20	-19.60	-0.023431		
	30	-13.68	-0.016354		
	40	-18.45	-0.022056		
	50	-15.03	-0.017968		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.25	-13.62	-0.016282	±2.5	Pass
	3.70	5.91	0.007065		
	3.25	-13.88	-0.016593		
16QAM					
25	4.25	-2.10	-0.002510	±2.5	Pass
	3.70	-5.74	-0.006862		
	3.25	-14.31	-0.017107		

Note: Only the worst case shown in the 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					
3.70	-30	5.12	0.007237	Within authorized band for Band 12	Pass
	-20	13.32	0.018827		
	-10	15.94	0.022530		
	0	20.66	0.029201		
	10	22.24	0.031435		
	20	30.83	0.043576		
	30	30.20	0.042686		
	40	35.79	0.050587		
	50	37.06	0.052382		
16QAM					
3.70	-30	37.64	0.053201	Within authorized band for Band 12	Pass
	-20	-6.24	-0.008820		
	-10	7.57	0.010700		
	0	17.61	0.024890		
	10	23.60	0.033357		
	20	30.08	0.042516		
	30	33.42	0.047237		
	40	39.04	0.055180		
	50	42.41	0.059943		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.25	38.52	0.054445	Within authorized band for Band 12	Pass
	3.70	24.85	0.035124		
	3.25	49.94	0.070587		
16QAM					
25	4.25	51.90	0.073357	Within authorized band for Band 12	Pass
	3.70	39.95	0.056466		
	3.25	24.62	0.034799		

Note: Only the worst case shown in the report.

## 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					
3.70	-30	23.73	0.033423	Within authorized band for Band 17	Pass
	-20	30.08	0.042366		
	-10	37.15	0.052324		
	0	45.20	0.063662		
	10	-2.62	-0.003690		
	20	6.64	0.009352		
	30	9.26	0.013042		
	40	12.95	0.018239		
	50	15.98	0.022507		
16QAM					
3.70	-30	8.78	0.012366	Within authorized band for Band 17	Pass
	-20	16.47	0.023197		
	-10	24.13	0.033986		
	0	31.03	0.043704		
	10	34.06	0.047972		
	20	40.43	0.056944		
	30	46.38	0.065324		
	40	3.69	0.005197		
	50	8.93	0.012577		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.25	47.82	0.067352	Within authorized band for Band 17	Pass
	3.70	30.81	0.043394		
	3.25	11.59	0.016324		
16QAM					
25	4.25	29.44	0.041465	Within authorized band for Band 17	Pass
	3.70	22.34	0.031465		
	3.25	38.34	0.054000		

Note: Only the worst case shown in the report.



## 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					
3.70	-30	14.79	0.008476	Within authorized band for Band 66	Pass
	-20	28.87	0.016544		
	-10	10.86	0.006223		
	0	23.52	0.013479		
	10	-9.43	-0.005404		
	20	10.40	0.005960		
	30	16.57	0.009496		
	40	26.76	0.015335		
	50	39.02	0.022361		
16QAM					
3.70	-30	38.21	0.021897	Within authorized band for Band 66	Pass
	-20	23.27	0.013335		
	-10	39.40	0.022579		
	0	15.11	0.008659		
	10	26.01	0.014905		
	20	37.65	0.021576		
	30	2.89	0.001656		
	40	13.15	0.007536		
	50	21.30	0.012206		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.25	20.06	0.011496	Within authorized band for Band 66	Pass
	3.70	36.28	0.020791		
	3.25	40.84	0.023404		
16QAM					
25	4.25	26.29	0.015066	Within authorized band for Band 66	Pass
	3.70	-6.79	-0.003891		
	3.25	13.50	0.007736		

Note: Only the worst case shown in the report.