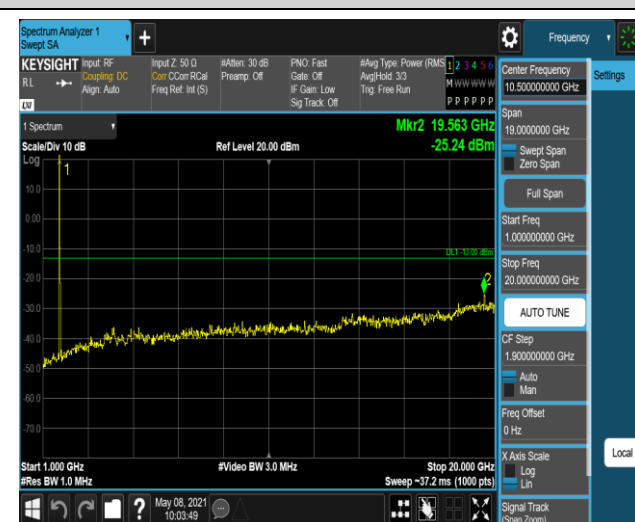


Band4-20MHz-16QAM-20050:30~1000MHz



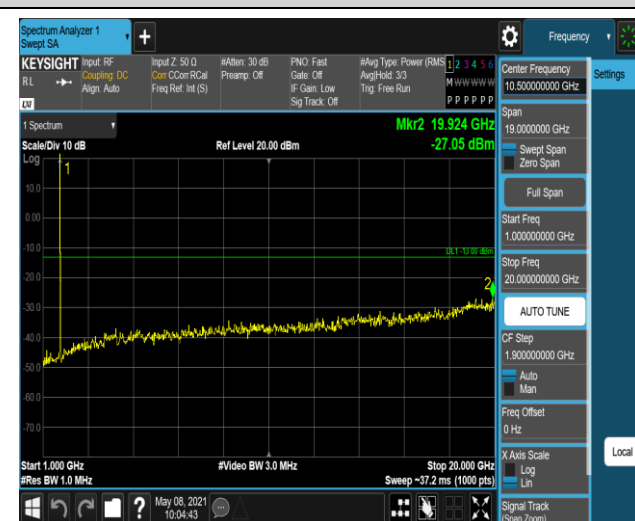
Band4-20MHz-16QAM-20050:1000~20000MHz



Band4-20MHz-16QAM-20175:30~1000MHz



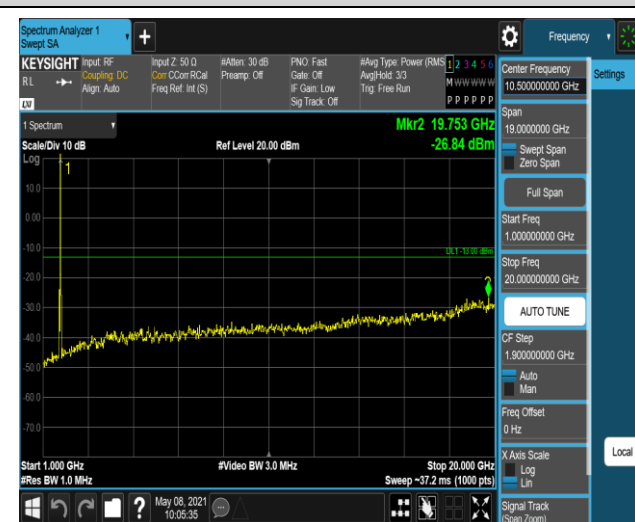
Band4-20MHz-16QAM-20175:1000~20000MHz



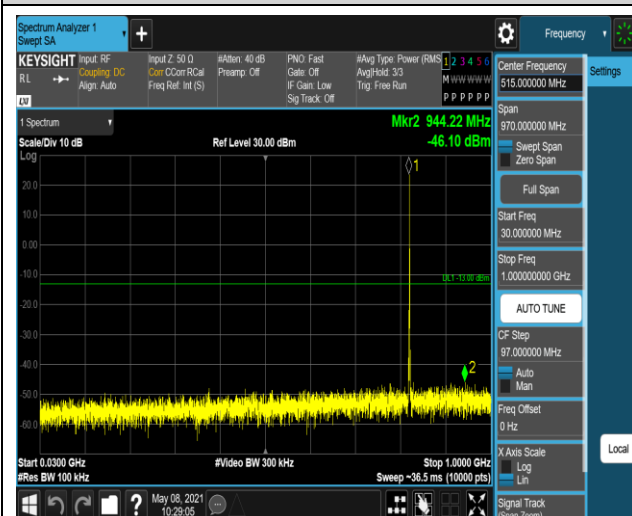
Band4-20MHz-16QAM-20300:30~1000MHz



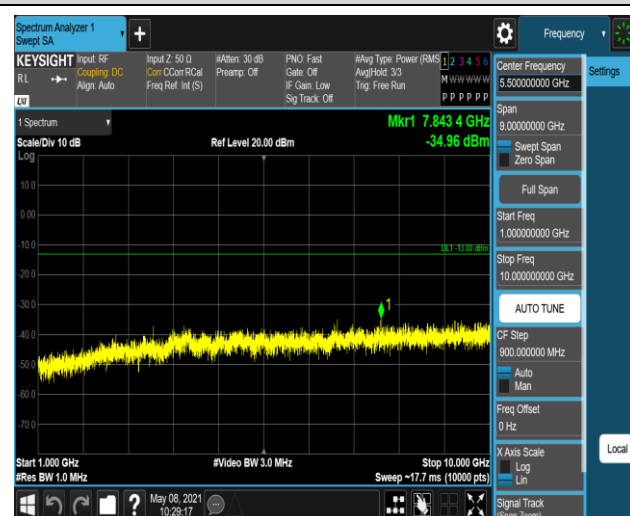
Band4-20MHz-16QAM-20300:1000~20000MHz



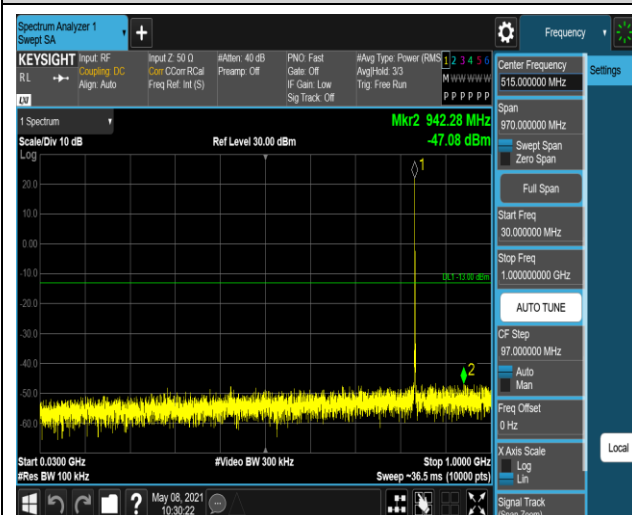
Band5-1.4MHz-QPSK-20407:30~1000MHz



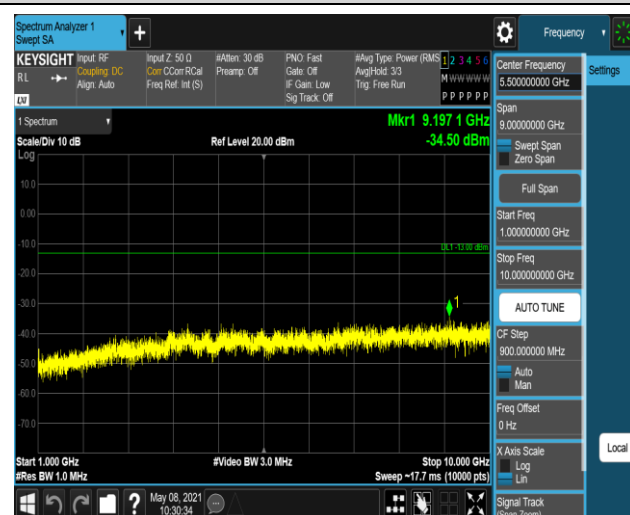
Band5-1.4MHz-QPSK-20407:1000~10000MHz



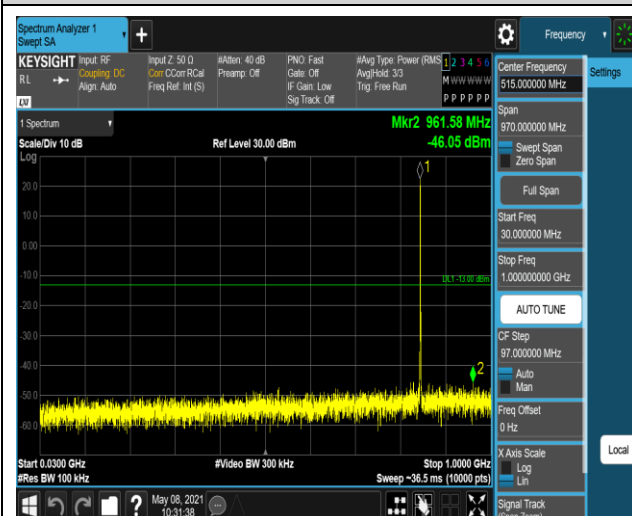
Band5-1.4MHz-QPSK-20525:30~1000MHz



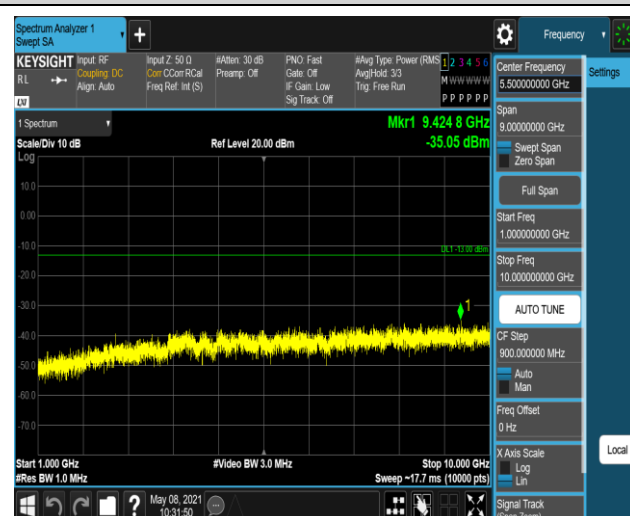
Band5-1.4MHz-QPSK-20525:1000~10000MHz



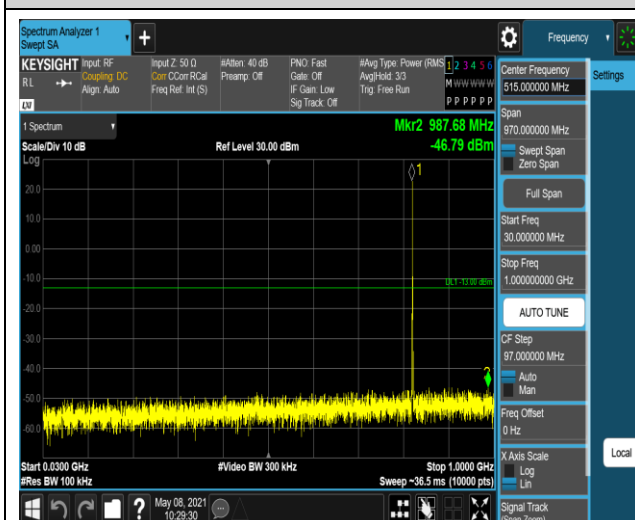
Band5-1.4MHz-QPSK-20643:30~1000MHz



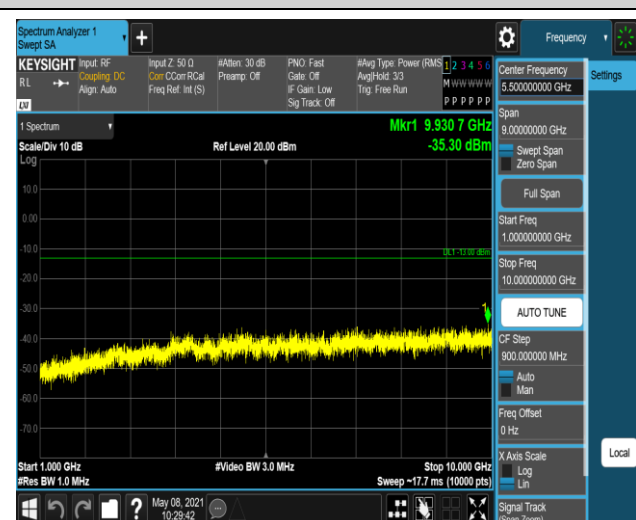
Band5-1.4MHz-QPSK-20643:1000~10000MHz



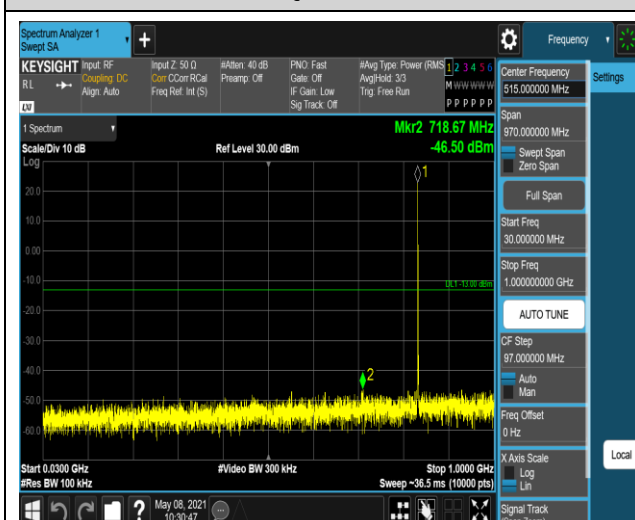
Band5-1.4MHz-16QAM-20407:30~1000MHz



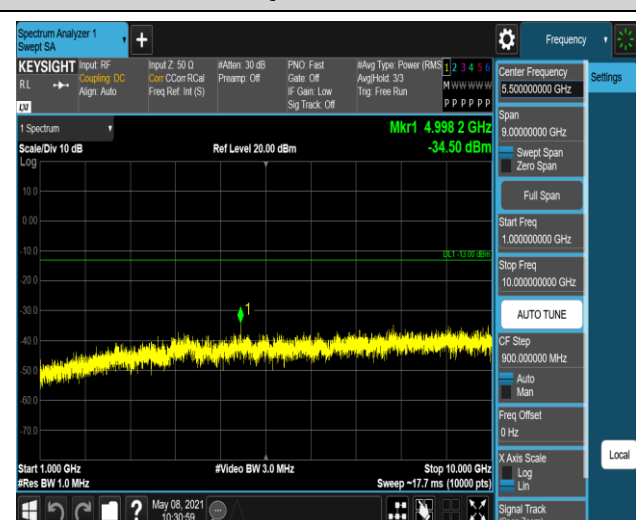
Band5-1.4MHz-16QAM-20407:1000~10000MHz



Band5-1.4MHz-16QAM-20525:30~1000MHz



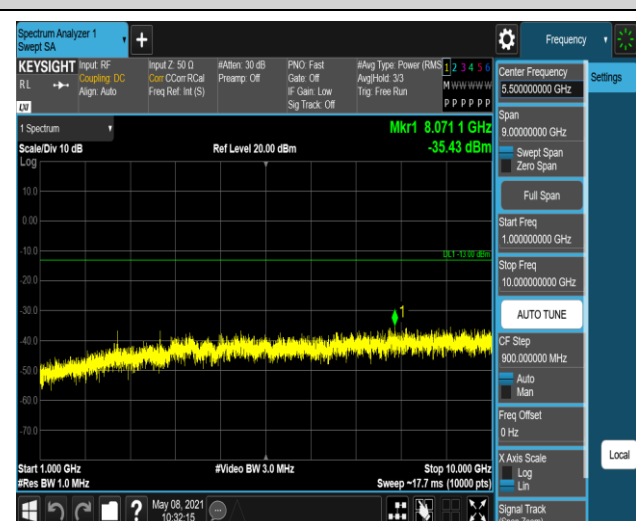
Band5-1.4MHz-16QAM-20525:1000~10000MHz



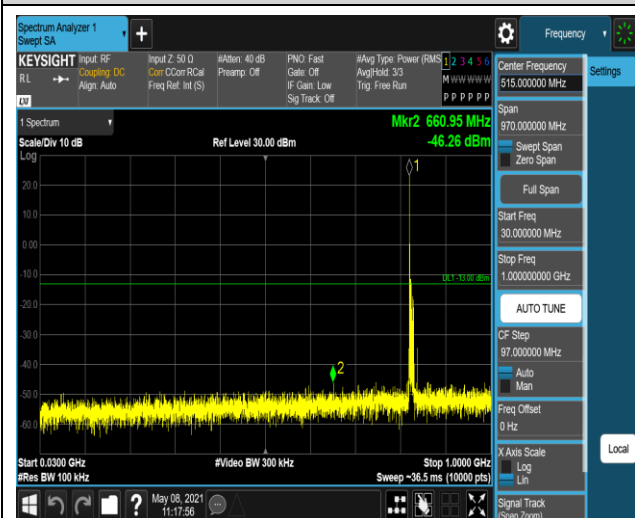
Band5-1.4MHz-16QAM-20643:30~1000MHz



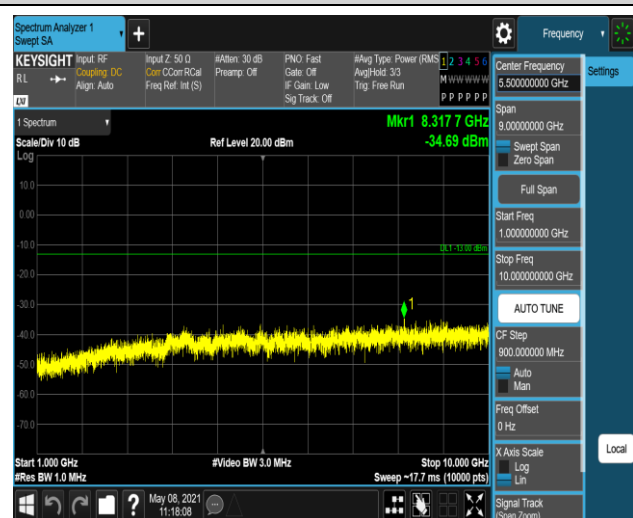
Band5-1.4MHz-16QAM-20643:1000~10000MHz



Band5-10MHz-QPSK-20450:30~1000MHz



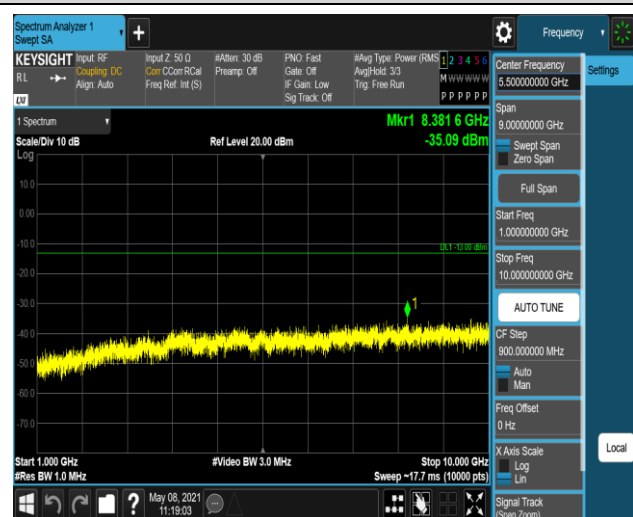
Band5-10MHz-QPSK-20450:1000~10000MHz



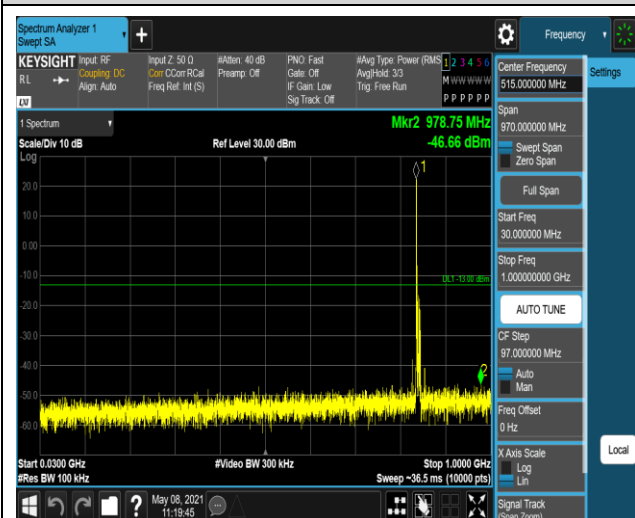
Band5-10MHz-QPSK-20525:30~1000MHz



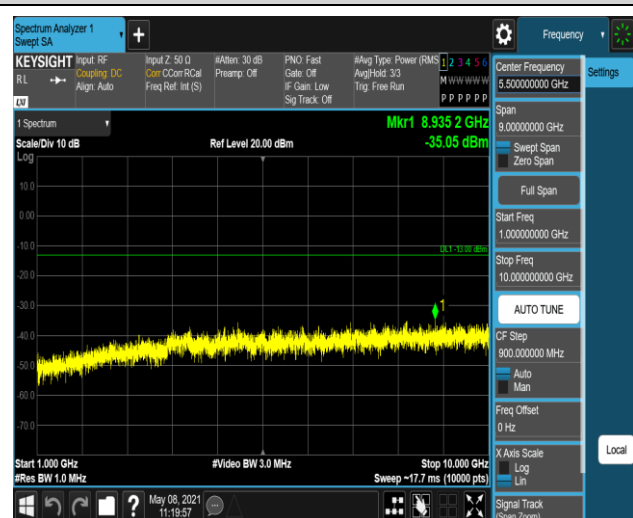
Band5-10MHz-QPSK-20525:1000~10000MHz



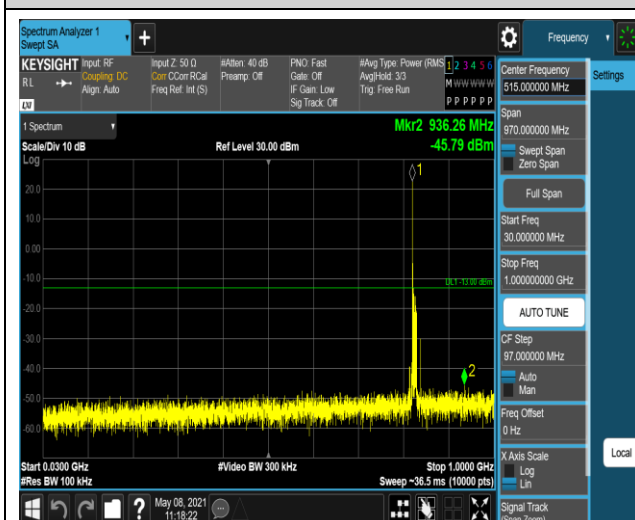
Band5-10MHz-QPSK-20600:30~1000MHz



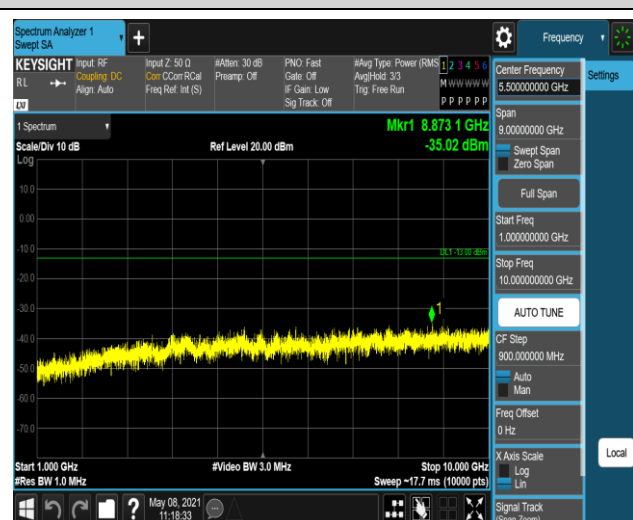
Band5-10MHz-QPSK-20600:1000~10000MHz



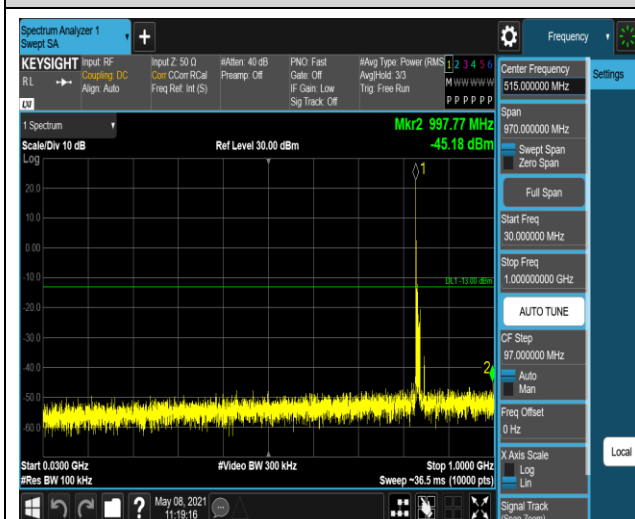
Band5-10MHz-16QAM-20450:30~1000MHz



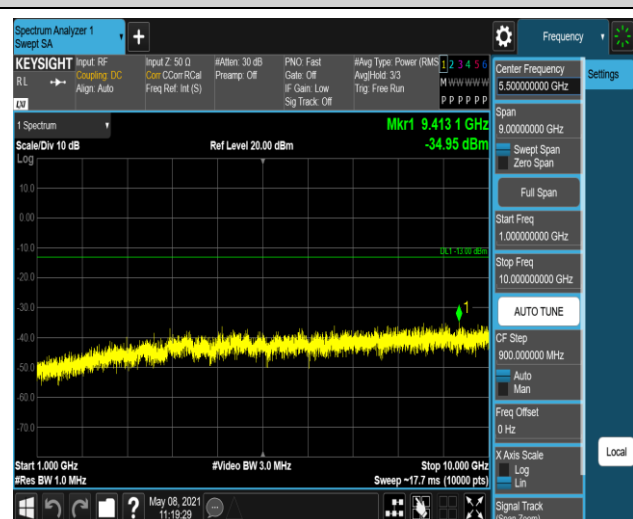
Band5-10MHz-16QAM-20450:1000~10000MHz



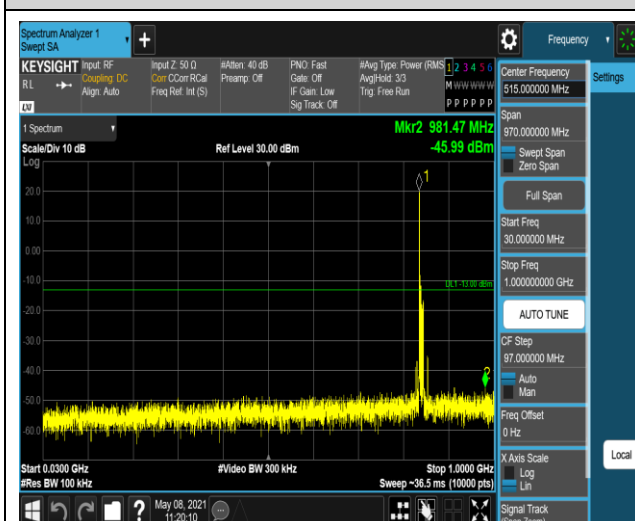
Band5-10MHz-16QAM-20525:30~1000MHz



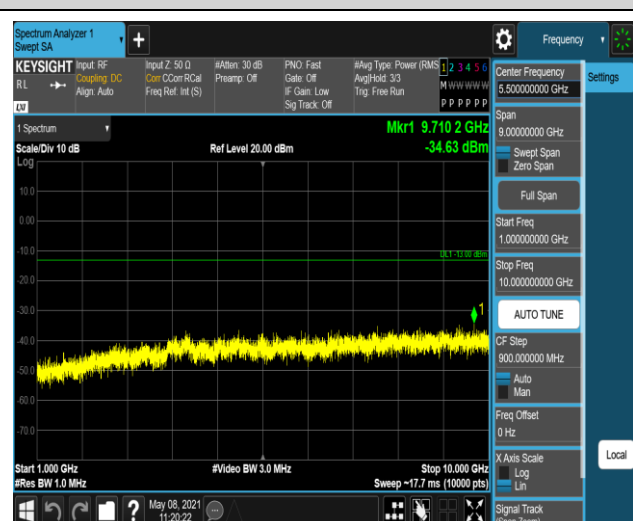
Band5-10MHz-16QAM-20525:1000~10000MHz



Band5-10MHz-16QAM-20600:30~1000MHz



Band5-10MHz-16QAM-20600:1000~10000MHz



Band7-5MHz-QPSK-20775:30~1000MHz



Band7-5MHz-QPSK-20775:1000~27000MHz



Band7-5MHz-QPSK-21100:30~1000MHz



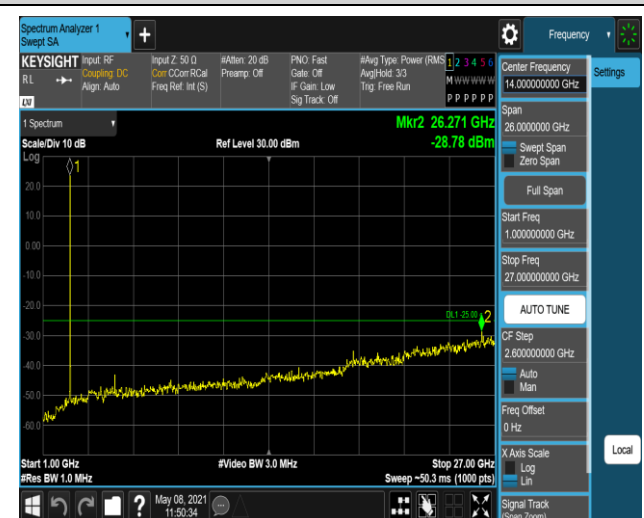
Band7-5MHz-QPSK-21100:1000~27000MHz



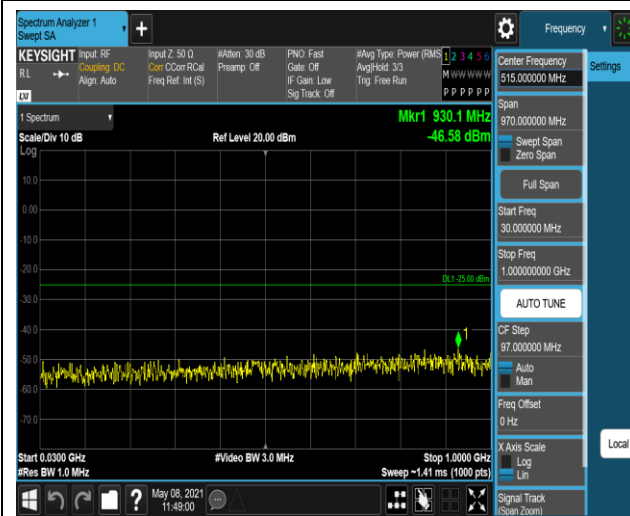
Band7-5MHz-QPSK-21425:30~1000MHz



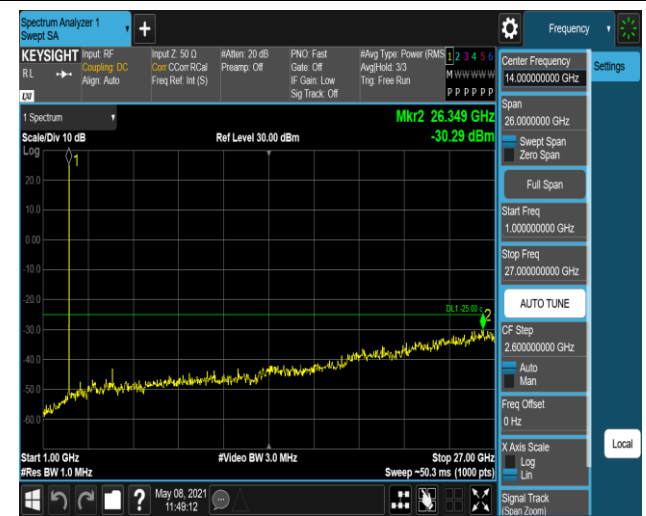
Band7-5MHz-QPSK-21425:1000~27000MHz



Band7-5MHz-16QAM-20775:30~1000MHz



Band7-5MHz-16QAM-20775:1000~27000MHz



Band7-5MHz-16QAM-21100:30~1000MHz



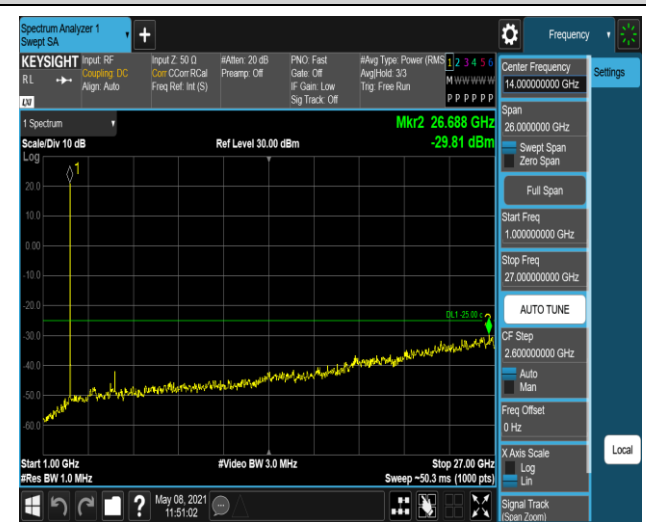
Band7-5MHz-16QAM-21100:1000~27000MHz



Band7-5MHz-16QAM-21425:30~1000MHz



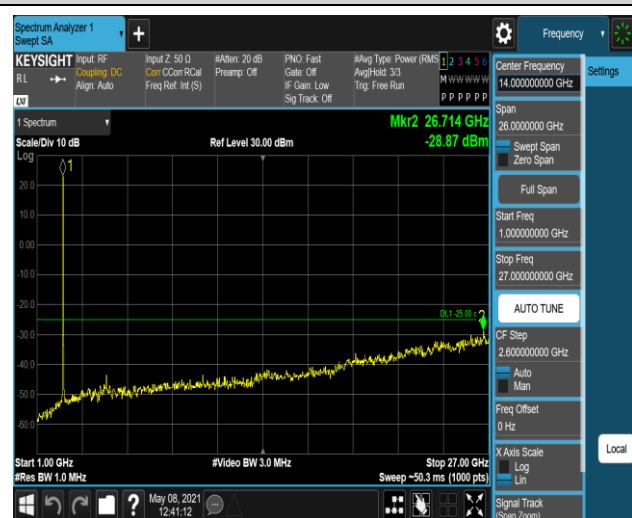
Band7-5MHz-16QAM-21425:1000~27000MHz



Band7-20MHz-QPSK-20850:30~1000MHz



Band7-20MHz-QPSK-20850:1000~27000MHz



Band7-20MHz-QPSK-21100:30~1000MHz



Band7-20MHz-QPSK-21100:1000~27000MHz



Band7-20MHz-QPSK-21350:30~1000MHz



Band7-20MHz-QPSK-21350:1000~27000MHz



Band7-20MHz-16QAM-20850:30~1000MHz



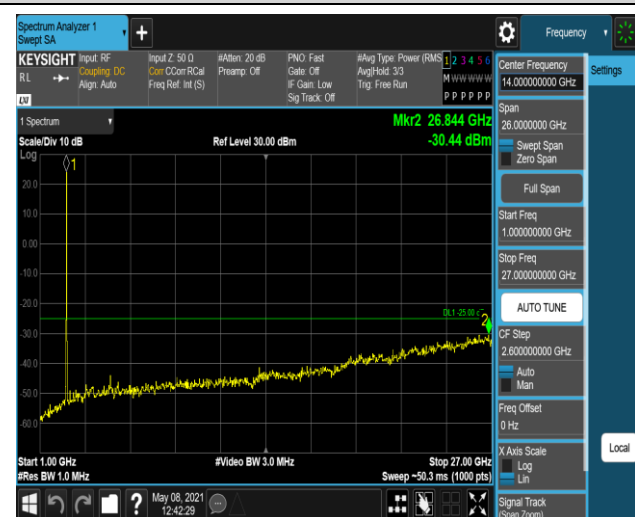
Band7-20MHz-16QAM-20850:1000~27000MHz



Band7-20MHz-16QAM-21100:30~1000MHz



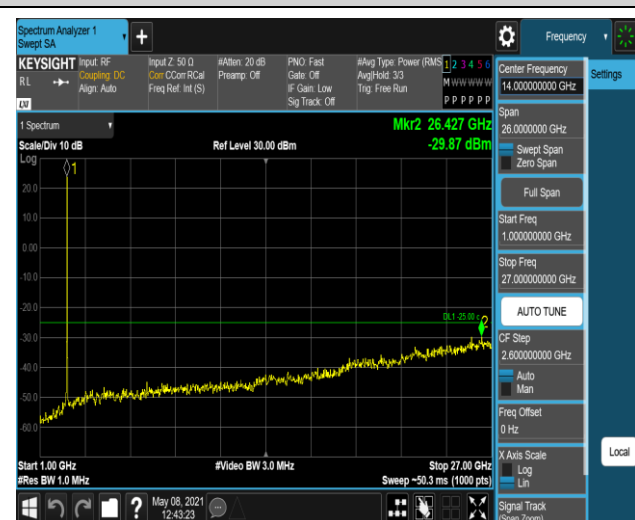
Band7-20MHz-16QAM-21100:1000~27000MHz



Band7-20MHz-16QAM-21350:30~1000MHz



Band7-20MHz-16QAM-21350:1000~27000MHz



Appendix F: Frequency Stability

Test Result

Frequency stability V.S. Voltage measurement:

LTE Band 2 part:

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-19.21	-0.010218	Within authorized band for Band 2	Pass
	3.70	-20.60	-0.010957		
	4.20	-23.93	-0.012729		
16QAM					
25	3.50	-25.29	-0.013452	Within authorized band for Band 2	Pass
	3.70	-16.62	-0.008840		
	4.20	-46.29	-0.024622		
Note: Only the worst case shown in the report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-27.31	-0.015763	Within authorized band for Band 4	Pass
	3.70	-31.97	-0.018453		
	4.20	5.15	0.002973		
16QAM					
25	3.50	38.48	0.022211	Within authorized band for Band 4	Pass
	3.70	24.09	0.013905		
	4.20	37.52	0.021657		
Note: Only the worst case shown in the report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-15.28	-0.018267	±2.5	Pass
	3.70	-11.10	-0.013270		
	4.20	-11.73	-0.014023		
16QAM					
25	3.50	20.04	0.023957	±2.5	Pass
	3.70	19.50	0.023311		
	4.20	16.15	0.019307		
Note: Only the worst case shown in the report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	29.85	0.011775	Within authorized band for Band 7	Pass
	3.70	-20.60	-0.008126		
	4.20	12.09	0.004769		
16QAM					
25	3.50	14.48	0.005712	Within authorized band for Band 7	Pass
	3.70	32.97	0.013006		
	4.20	-55.63	-0.021945		
Note: Only the worst case shown in the report.					

Frequency stability V.S. Temperature measurement:

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	-35.59	-0.018931	Within authorized band for Band 2	Pass
	-20	-9.37	-0.004984		
	-10	-18.67	-0.009931		
	0	-26.98	-0.014351		
	10	-29.14	-0.015500		
	20	-43.57	-0.023176		
	30	-41.54	-0.022096		
	40	-47.76	-0.025404		
	50	-46.35	-0.024654		
16QAM					
3.70	-30	-61.03	-0.032463	Within authorized band for Band 2	Pass
	-20	4.49	0.002388		
	-10	-6.58	-0.003500		
	0	-15.84	-0.008426		
	10	-18.00	-0.009574		
	20	-25.39	-0.013505		
	30	-35.76	-0.019021		
	40	-43.87	-0.023335		
	50	-12.27	-0.006527		
Note: Only the worst case shown in the report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	32.64	0.018840	Within authorized band for Band 4	Pass
	-20	22.52	0.012999		
	-10	41.69	0.024063		
	0	40.54	0.023400		
	10	-16.24	-0.009374		
	20	22.33	0.012889		
	30	10.41	0.006009		
	40	38.90	0.022453		
	50	26.38	0.015227		
16QAM					
3.70	-30	36.89	0.021293	Within authorized band for Band 4	Pass
	-20	13.46	0.007769		
	-10	21.84	0.012606		
	0	39.53	0.022817		
	10	-5.88	-0.003394		
	20	9.66	0.005576		
	30	19.53	0.011273		
	40	28.34	0.016358		
	50	36.42	0.021022		
Note: Only the worst case shown in the report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	-9.31	-0.011130	±2.5	Pass
	-20	-3.81	-0.004555		
	-10	2.19	0.002618		
	0	3.68	0.004399		
	10	5.54	0.006623		
	20	11.00	0.013150		
	30	9.97	0.011919		
	40	13.90	0.016617		
	50	15.01	0.017944		
16QAM					
3.70	-30	12.97	0.015505	±2.5	Pass
	-20	10.41	0.012445		
	-10	9.57	0.011441		
	0	6.22	0.007436		
	10	9.91	0.011847		
	20	8.80	0.010520		
	30	7.84	0.009372		
	40	11.20	0.013389		
	50	7.30	0.008727		
Note: Only the worst case shown in the report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	18.94	0.007471	Within authorized band for Band 7	Pass
	-20	19.93	0.007862		
	-10	49.08	0.019361		
	0	44.27	0.017464		
	10	25.46	0.010043		
	20	35.88	0.014154		
	30	49.41	0.019491		
	40	38.32	0.015116		
	50	36.05	0.014221		
16QAM					
3.70	-30	-10.21	-0.004028	Within authorized band for Band 7	Pass
	-20	8.37	0.003302		
	-10	47.66	0.018801		
	0	10.00	0.003945		
	10	44.53	0.017566		
	20	11.29	0.004454		
	30	-9.71	-0.003830		
	40	21.31	0.008406		
	50	40.56	0.016000		
Note: Only the worst case shown in the report.					