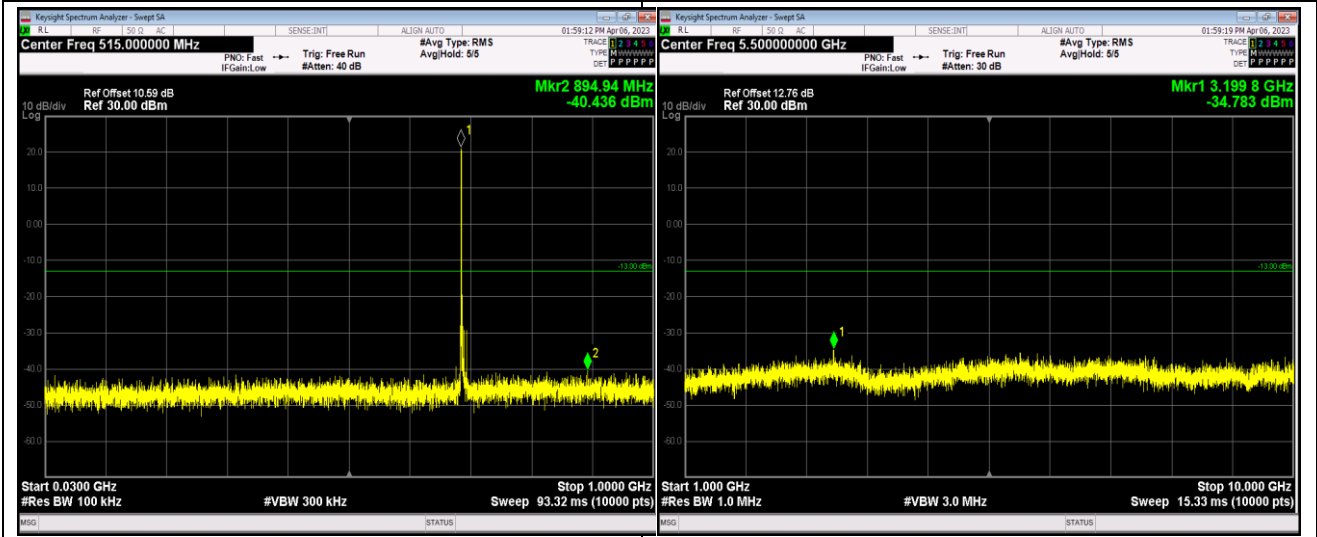


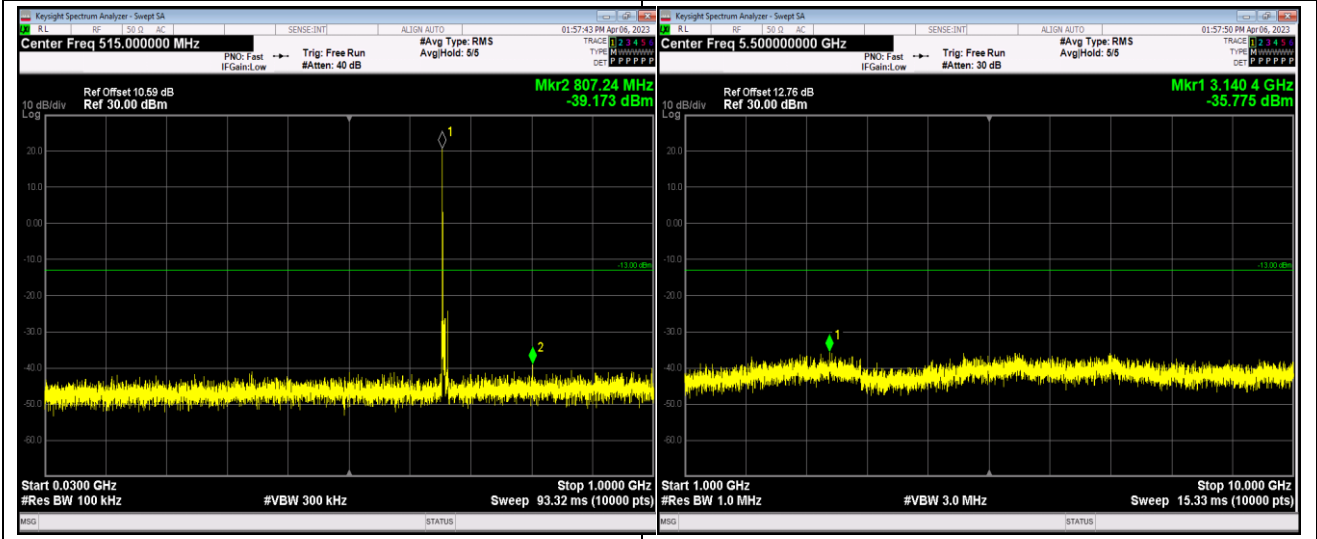
Band71-5MHz-16QAM-133447-1RB#0-Range1:30
~1000MHz

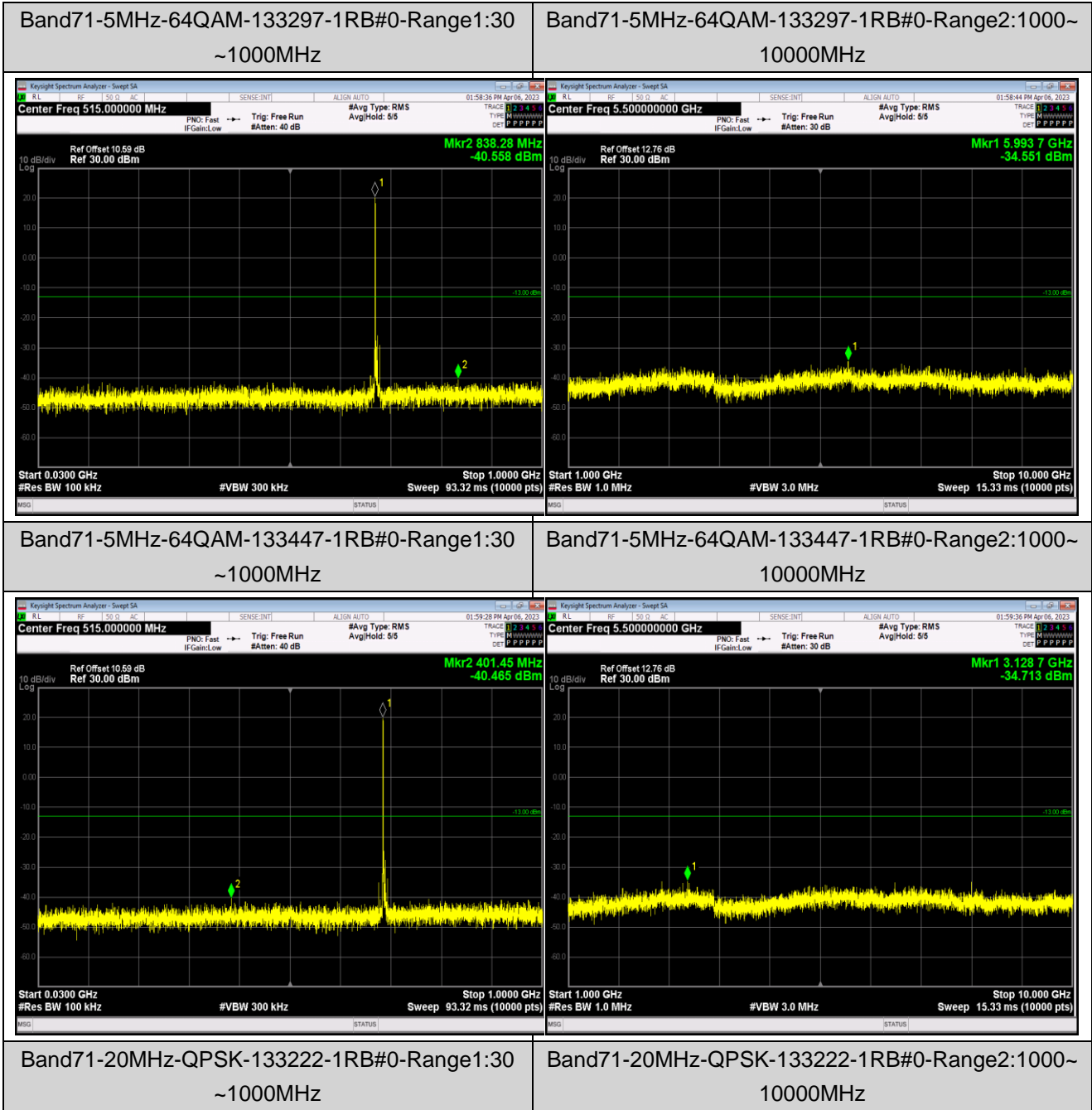
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10000MHz

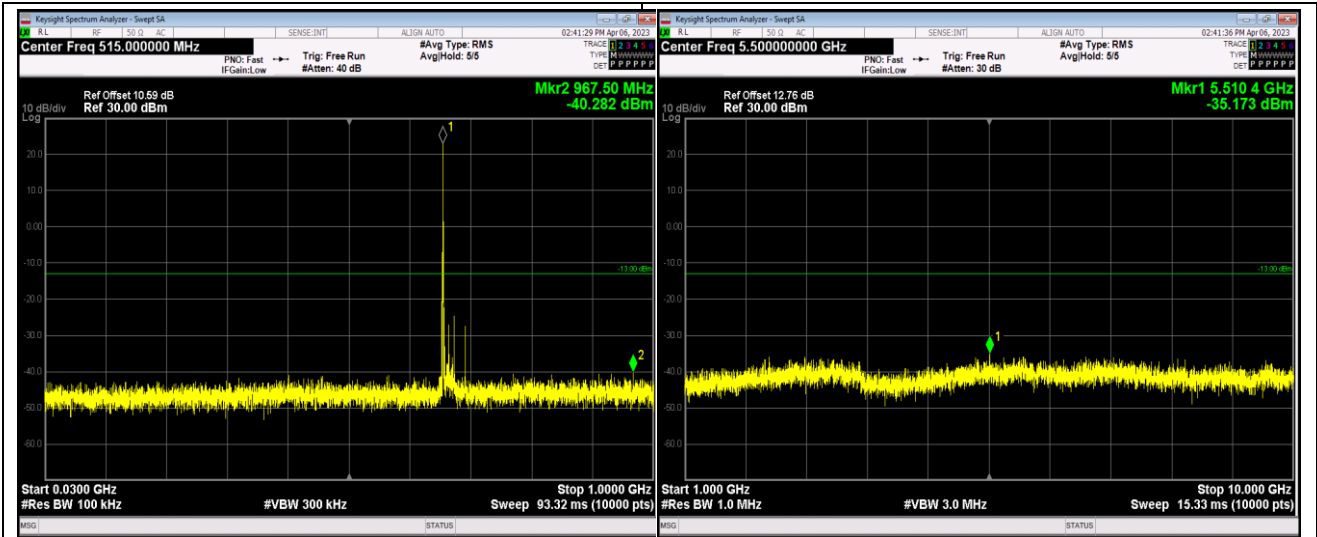


Band71-5MHz-64QAM-133147-1RB#0-Range1:30
~1000MHz

Band71-5MHz-64QAM-133147-1RB#0-Range2:1000~
10000MHz

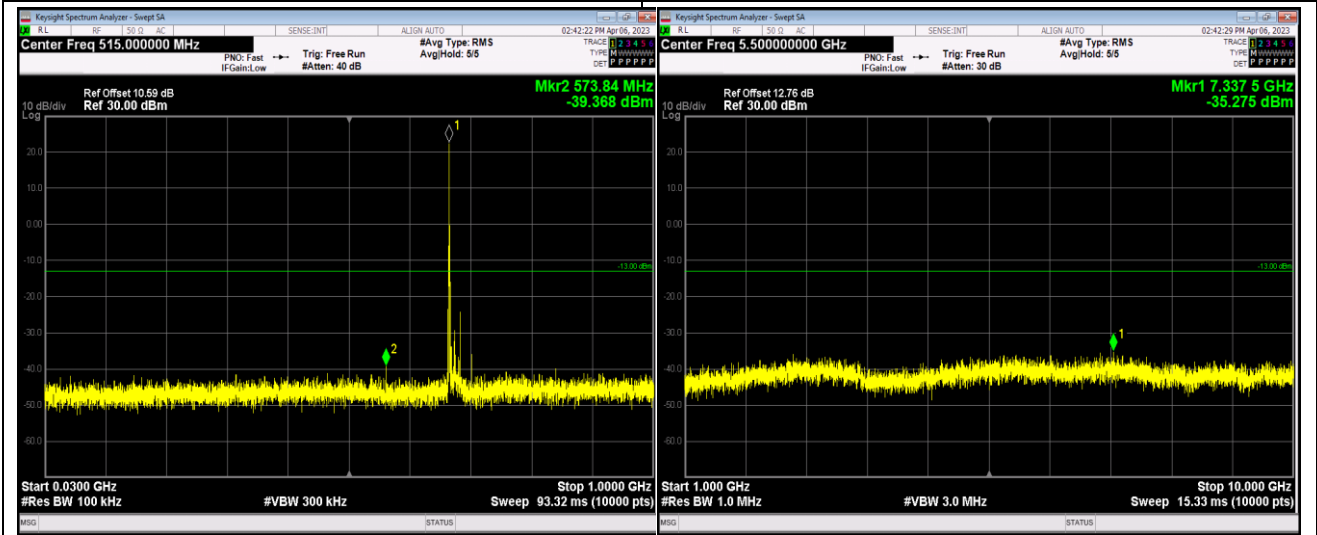






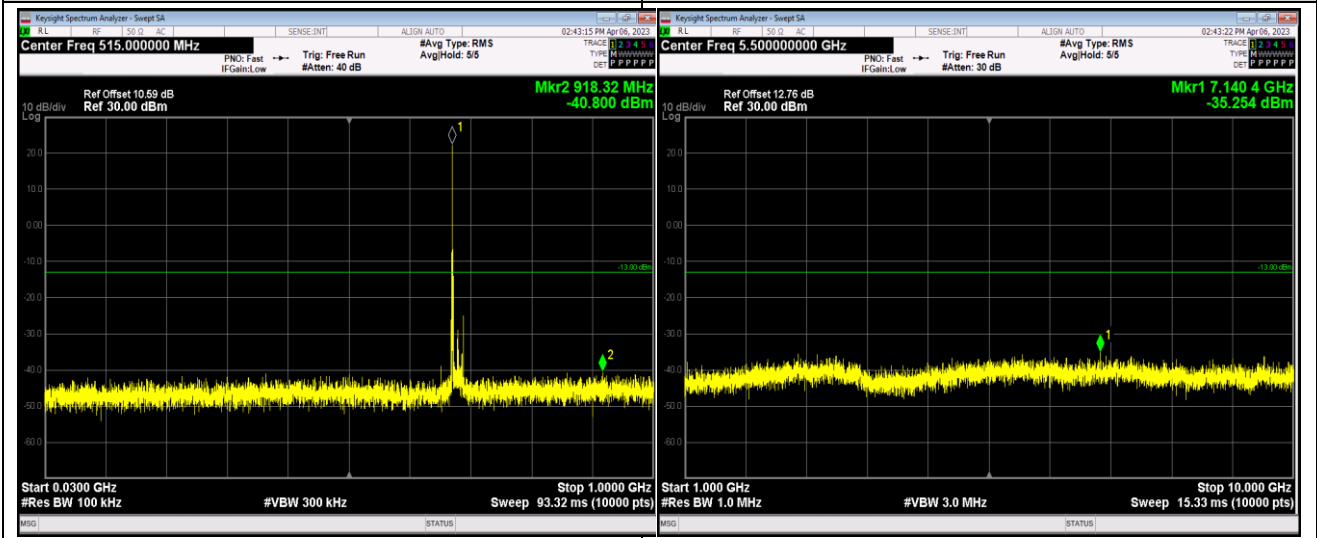
Band71-20MHz-QPSK-133322-1RB#0-Range1:30
~1000MHz

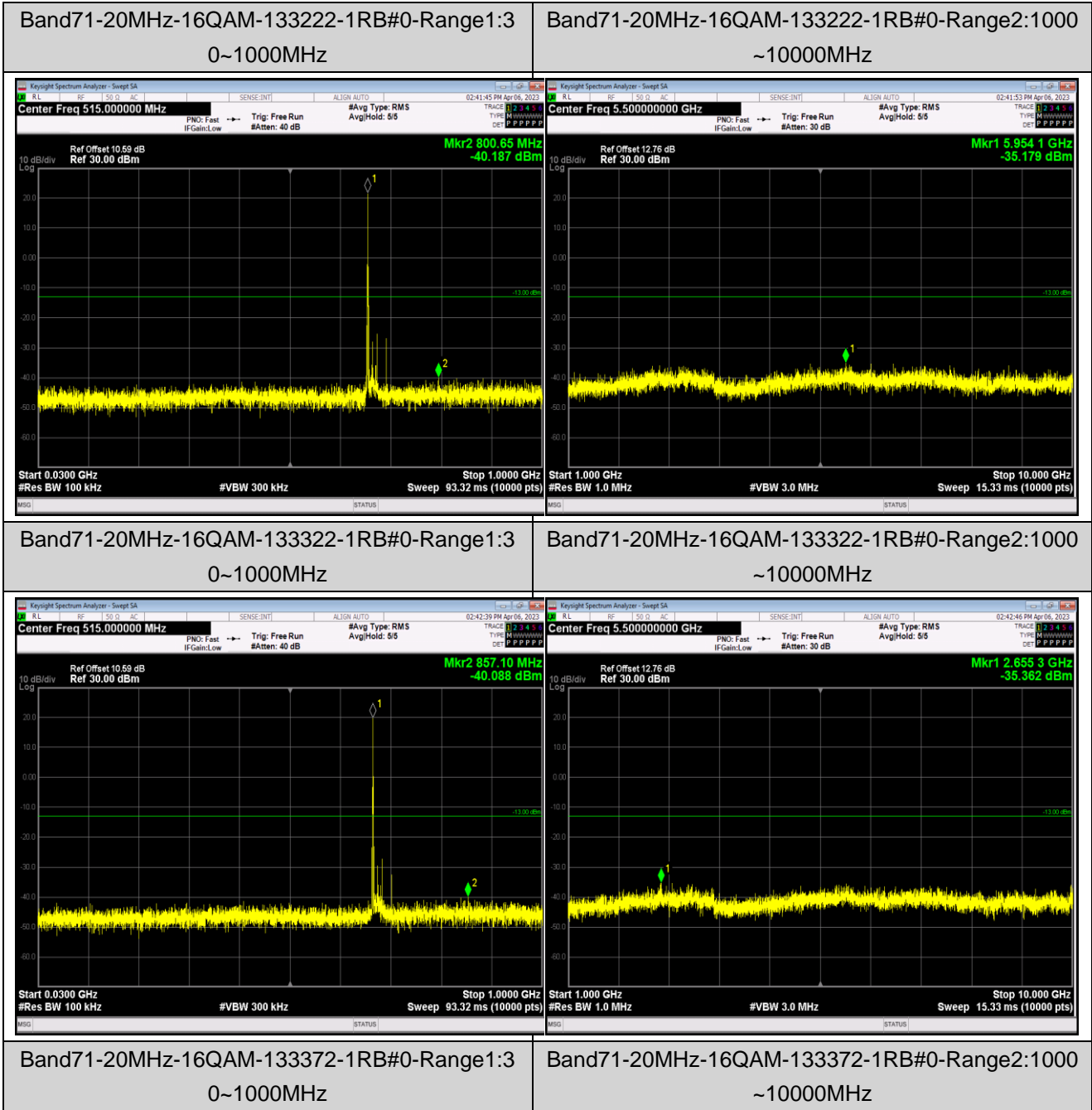
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10000MHz

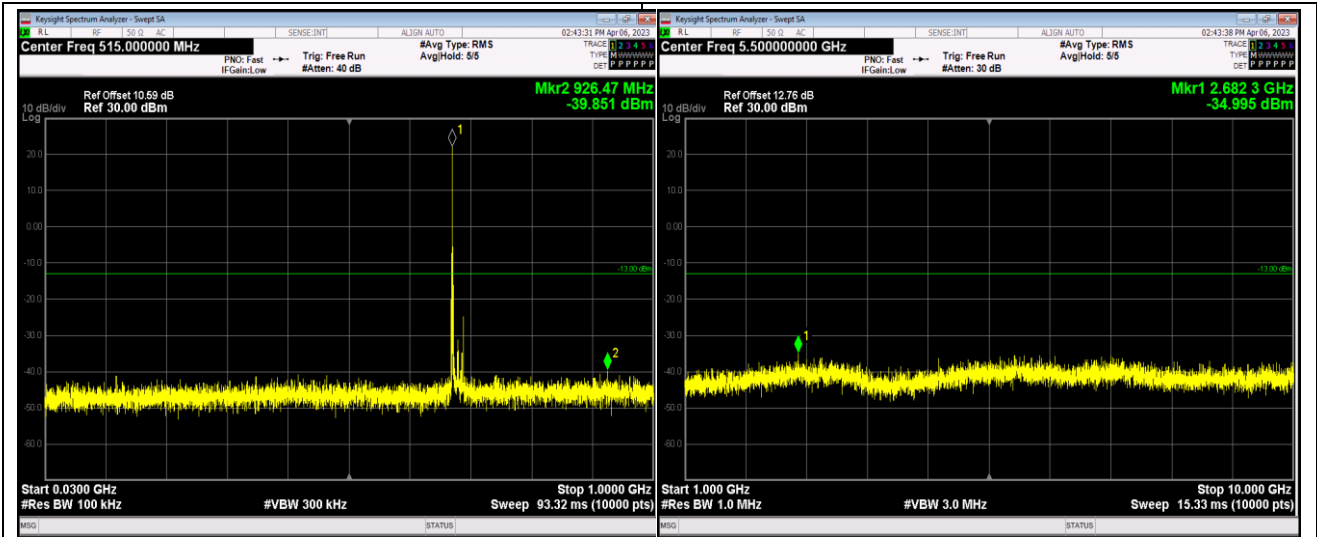


Band71-20MHz-QPSK-133372-1RB#0-Range1:30
~1000MHz

Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~
10000MHz

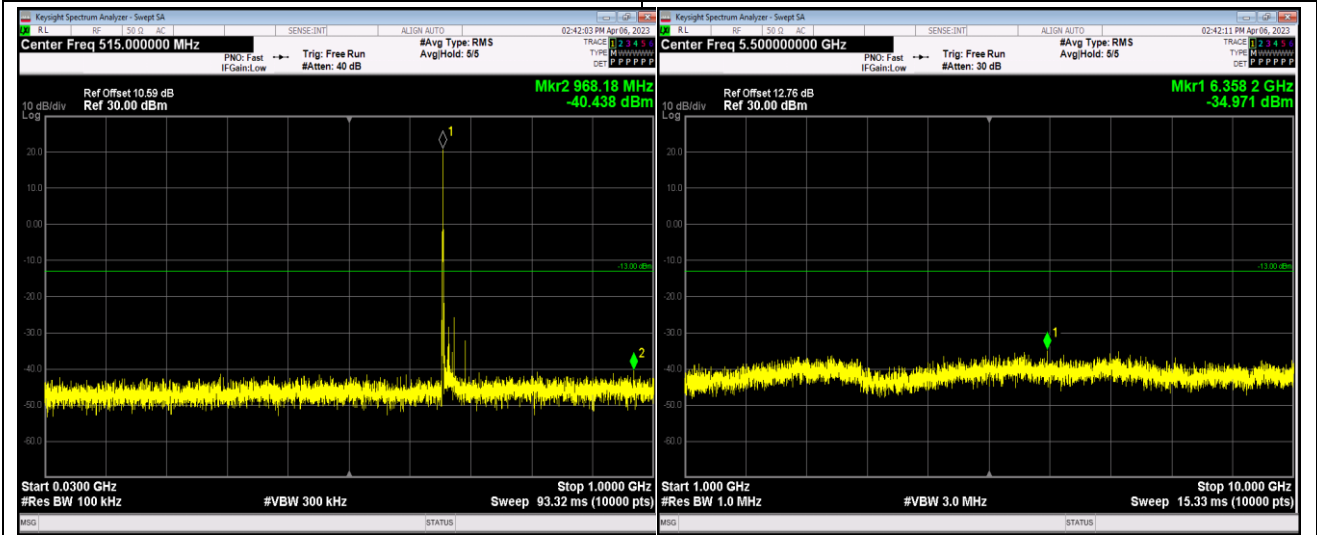






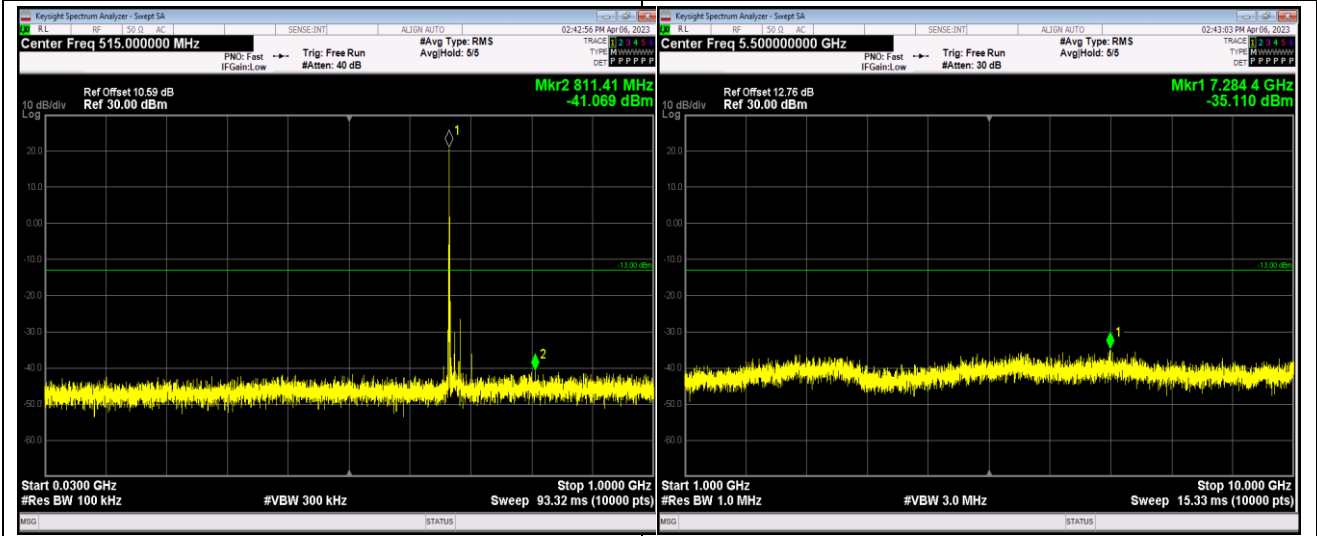
Band71-20MHz-64QAM-133222-1RB#0-Range1:3
0~1000MHz

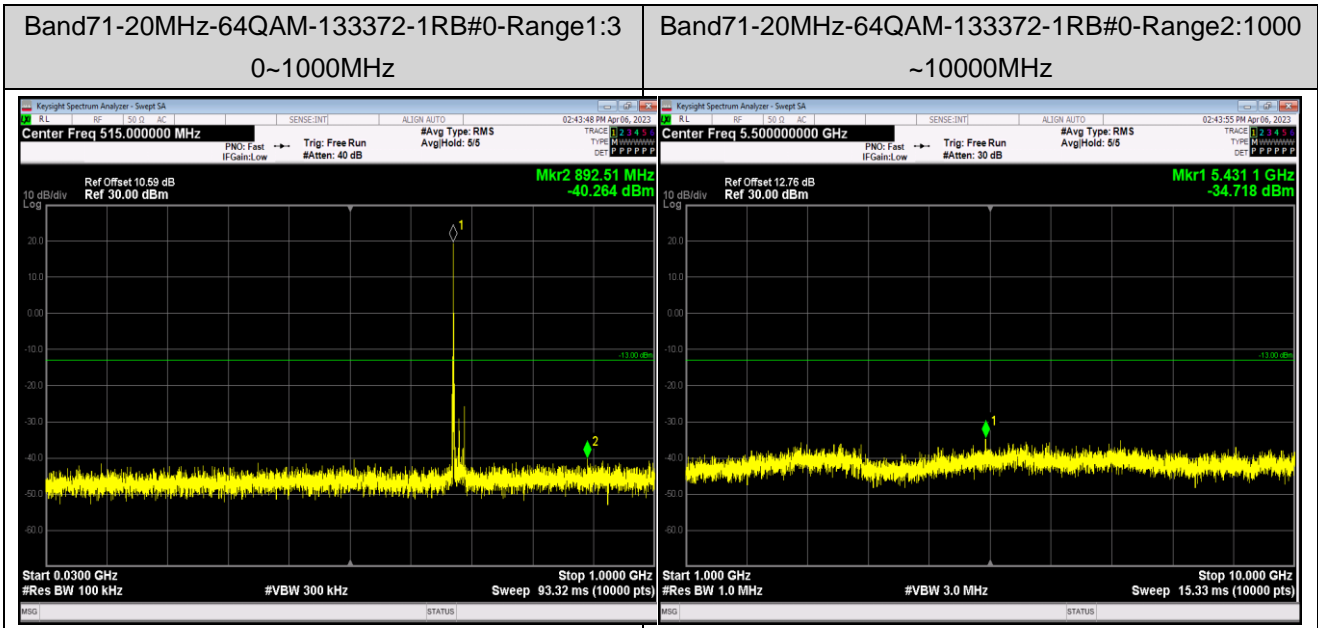
Band71-20MHz-64QAM-133222-1RB#0-Range2:1000
~10000MHz



Band71-20MHz-64QAM-133322-1RB#0-Range1:3
0~1000MHz

Band71-20MHz-64QAM-133322-1RB#0-Range2:1000
~10000MHz





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					
3.70	-30	-9.87	-0.005250	Within authorized band for Band 2	Pass
	-20	-18.41	-0.009793		
	-10	-7.24	-0.003851		
	0	-15.12	-0.008043		
	10	-10.13	-0.005388		
	20	-17.34	-0.009223		
	30	-15.15	-0.008059		
	40	-19.66	-0.010457		
	50	-12.63	-0.006718		
16QAM					
3.70	-30	-14.25	-0.007580	Within authorized band for Band 2	Pass
	-20	-9.97	-0.005303		
	-10	-9.11	-0.004846		
	0	-18.71	-0.009952		
	10	-19.61	-0.010431		
	20	-13.43	-0.007144		
	30	-15.68	-0.008340		
	40	-9.04	-0.004809		
	50	-13.12	-0.006979		
64QAM					
3.70	-30	-14.43	-0.007676	Within authorized band for Band 2	Pass
	-20	-16.54	-0.008798		
	-10	-12.65	-0.006729		
	0	-12.00	-0.006383		
	10	-12.63	-0.006718		
	20	-15.91	-0.008463		
	30	-14.36	-0.007638		
	40	-6.75	-0.003590		
	50	-13.48	-0.007170		
Voltage					
Temperature	Power supplied	Frequency error		Limit (ppm)	Result

(°C)	(Vdc)	Hz	ppm		
QPSK					
25	3.33	-13.66	-0.007266	Within authorized band for Band 2	Pass
	3.70	-18.44	-0.009809		
	4.07	-11.90	-0.006330		
16QAM					
25	3.33	-13.06	-0.006947	Within authorized band for Band 2	Pass
	3.70	-13.83	-0.007356		
	4.07	-15.81	-0.008410		
64QAM					
25	3.33	-10.94	-0.005819	Within authorized band for Band 2	Pass
	3.70	-4.45	-0.002367		
	4.07	-12.00	-0.006383		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

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	-6.88	-0.008225	±2.5	Pass
	-20	-11.01	-0.013162		
	-10	-10.11	-0.012086		
	0	-8.41	-0.010054		
	10	-8.44	-0.010090		
	20	-10.57	-0.012636		
	30	-9.61	-0.011488		
	40	-3.86	-0.004614		
	50	-6.75	-0.008069		
16QAM					
3.70	-30	-6.15	-0.007352	±2.5	Pass
	-20	-10.34	-0.012361		
	-10	-9.61	-0.011488		
	0	-9.27	-0.011082		
	10	-9.07	-0.010843		
	20	-9.27	-0.011082		
	30	-4.85	-0.005798		
	40	-11.52	-0.013772		
	50	-8.10	-0.009683		
64QAM					
3.70	-30	-4.65	-0.005559	±2.5	Pass
	-20	-10.59	-0.012660		
	-10	-8.78	-0.010496		
	0	-7.81	-0.009337		
	10	-2.80	-0.003347		
	20	-6.97	-0.008332		
	30	-7.74	-0.009253		
	40	-7.07	-0.008452		
	50	-3.92	-0.004686		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.33	-8.84	-0.010568	±2.5	Pass
	3.70	-15.36	-0.018362		
	4.07	-6.41	-0.007663		
16QAM					
25	3.33	-10.10	-0.012074	±2.5	Pass
	3.70	-11.39	-0.013616		
	4.07	-11.54	-0.013796		
64QAM					
25	3.33	-9.91	-0.011847	±2.5	Pass
	3.70	-6.79	-0.008117		
	4.07	-10.71	-0.012803		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

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	-7.10	-0.010035	Within authorized band for Band 12	Pass
	-20	-5.34	-0.007548		
	-10	-8.48	-0.011986		
	0	-13.29	-0.018784		
	10	-8.15	-0.011519		
	20	-9.97	-0.014092		
	30	-11.84	-0.016735		
	40	-12.23	-0.017286		
	50	-8.83	-0.012481		
16QAM					
3.70	-30	-14.22	-0.020099	Within authorized band for Band 12	Pass
	-20	-10.56	-0.014926		
	-10	-8.74	-0.012353		
	0	-7.35	-0.010389		
	10	-8.47	-0.011972		
	20	-6.01	-0.008495		
	30	-12.62	-0.017837		
	40	-8.05	-0.011378		
	50	-8.00	-0.011307		
64QAM					
3.70	-30	-7.34	-0.010375	Within authorized band for Band 12	Pass
	-20	-8.30	-0.011731		
	-10	-9.86	-0.013936		
	0	-11.46	-0.016198		
	10	-8.20	-0.011590		
	20	2.96	0.004184		
	30	-8.17	-0.011548		
	40	-7.70	-0.010883		
	50	-6.49	-0.009173		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.33	-7.28	-0.010290	Within authorized band for Band 12	Pass
	3.70	-10.59	-0.014968		
	4.07	-6.07	-0.008580		
16QAM					
25	3.33	-8.33	-0.011774	Within authorized band for Band 12	Pass
	3.70	-6.18	-0.008735		
	4.07	-8.23	-0.011633		
64QAM					
25	3.33	-6.15	-0.008693	Within authorized band for Band 12	Pass
	3.70	-8.63	-0.012198		
	4.07	-6.58	-0.009300		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

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	-7.50	-0.010563	Within authorized band for Band 17	Pass
	-20	-7.01	-0.009873		
	-10	-8.44	-0.011887		
	0	-10.86	-0.015296		
	10	-10.81	-0.015225		
	20	-6.02	-0.008479		
	30	-7.04	-0.009915		
	40	-10.74	-0.015127		
	50	-6.31	-0.008887		
16QAM					
3.70	-30	-7.64	-0.010761	Within authorized band for Band 17	Pass
	-20	-11.30	-0.015915		
	-10	-11.82	-0.016648		
	0	-10.29	-0.014493		
	10	-7.94	-0.011183		
	20	-10.37	-0.014606		
	30	-6.17	-0.008690		
	40	-9.73	-0.013704		
	50	-9.58	-0.013493		
64QAM					
3.70	-30	-4.61	-0.006493	Within authorized band for Band 17	Pass
	-20	-5.05	-0.007113		
	-10	-10.49	-0.014775		
	0	-13.35	-0.018803		
	10	-12.49	-0.017592		
	20	-5.85	-0.008239		
	30	-9.30	-0.013099		
	40	-8.41	-0.011845		
	50	-2.49	-0.003507		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.33	-11.69	-0.016465	Within authorized band for Band 17	Pass
	3.70	-6.54	-0.009211		
	4.07	-10.69	-0.015056		
16QAM					
25	3.33	-12.40	-0.017465	Within authorized band for Band 17	Pass
	3.70	-11.34	-0.015972		
	4.07	-10.59	-0.014915		
64QAM					
25	3.33	-11.92	-0.016789	Within authorized band for Band 17	Pass
	3.70	-10.01	-0.014099		
	4.07	-8.63	-0.012155		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					