

Appendix E: Conducted Spurious Emission

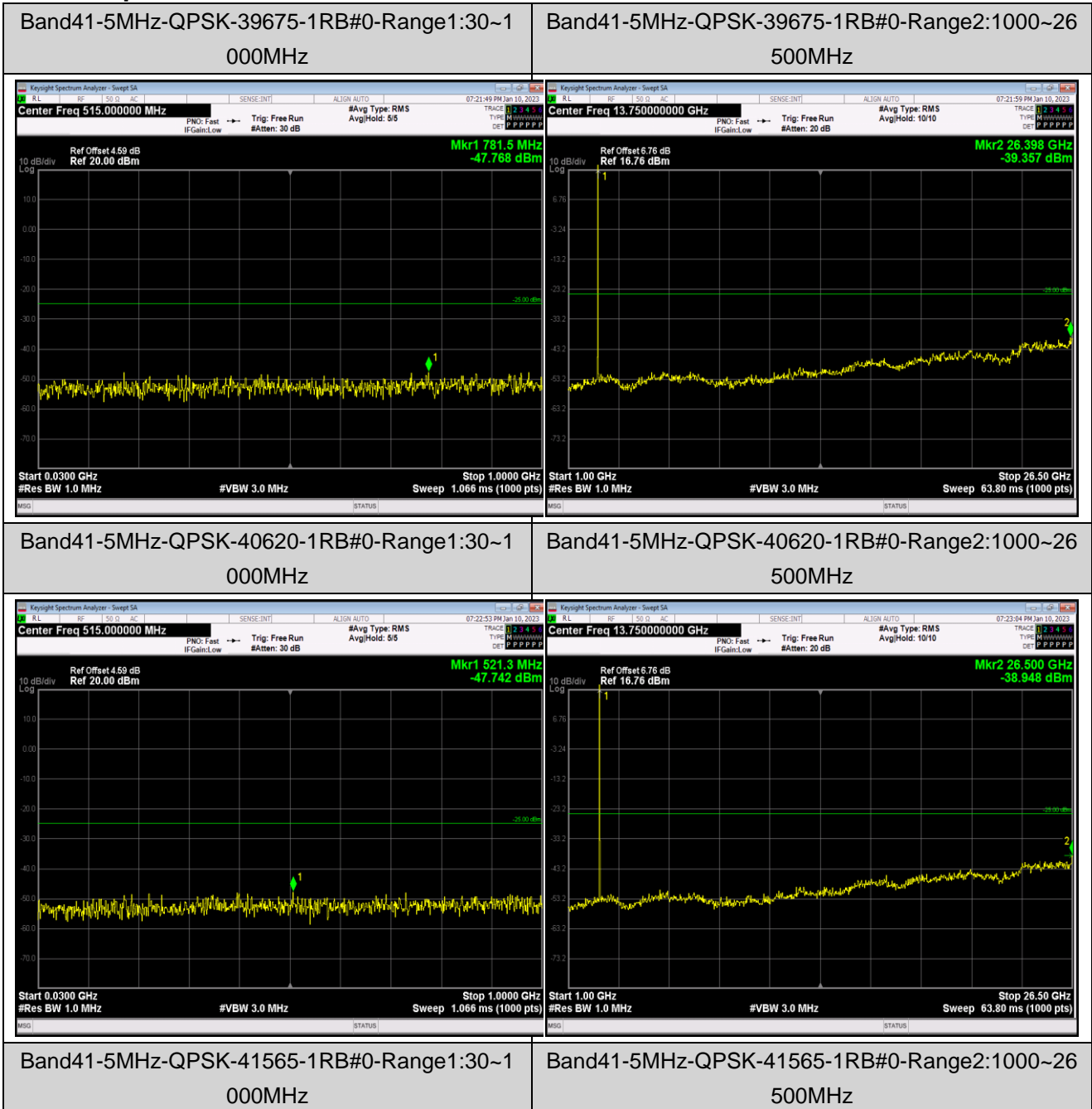
Test Result (worst case)

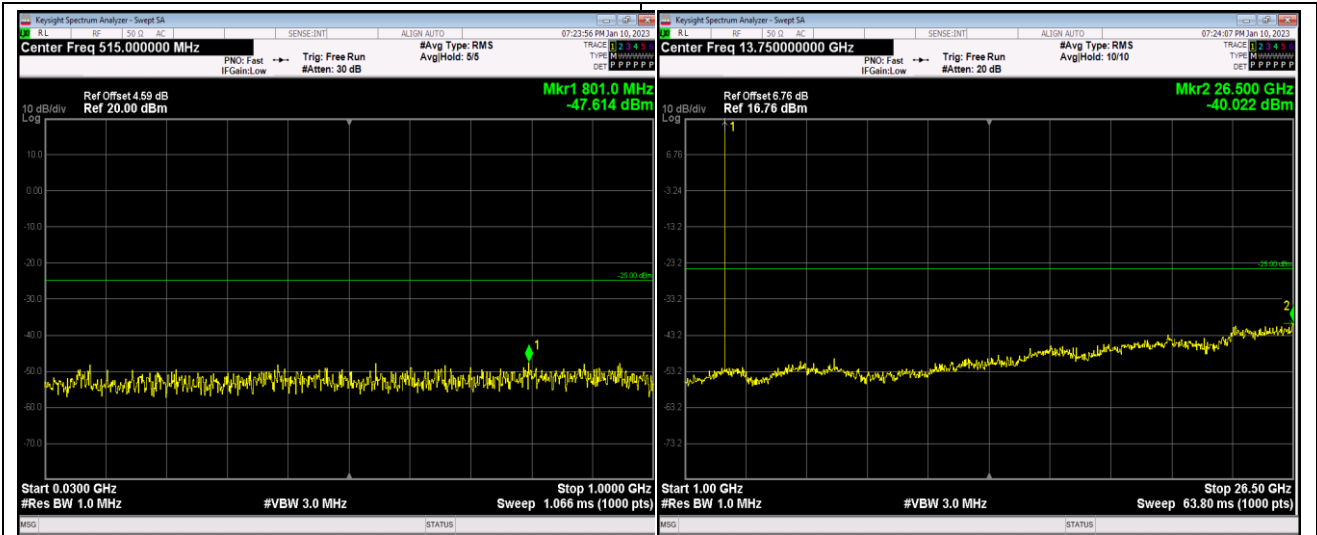
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	Range1:30~1000MHz	-47.77	PASS
Band41	5MHz	QPSK	39675	1RB#0	Range2:1000~26500MHz	-39.36	PASS
Band41	5MHz	QPSK	40620	1RB#0	Range1:30~1000MHz	-47.74	PASS
Band41	5MHz	QPSK	40620	1RB#0	Range2:1000~26500MHz	-38.95	PASS
Band41	5MHz	QPSK	41565	1RB#0	Range1:30~1000MHz	-47.61	PASS
Band41	5MHz	QPSK	41565	1RB#0	Range2:1000~26500MHz	-40.02	PASS
Band41	5MHz	16QAM	39675	1RB#0	Range1:30~1000MHz	-47.5	PASS
Band41	5MHz	16QAM	39675	1RB#0	Range2:1000~26500MHz	-40.46	PASS
Band41	5MHz	16QAM	40620	1RB#0	Range1:30~1000MHz	-47.35	PASS
Band41	5MHz	16QAM	40620	1RB#0	Range2:1000~26500MHz	-39.26	PASS
Band41	5MHz	16QAM	41565	1RB#0	Range1:30~1000MHz	-46.93	PASS
Band41	5MHz	16QAM	41565	1RB#0	Range2:1000~26500MHz	-38.69	PASS
Band41	5MHz	64QAM	39675	1RB#0	Range1:30~1000MHz	-46.92	PASS
Band41	5MHz	64QAM	39675	1RB#0	Range2:1000~26500MHz	-39.59	PASS
Band41	5MHz	64QAM	40620	1RB#0	Range1:30~1000MHz	-47.35	PASS
Band41	5MHz	64QAM	40620	1RB#0	Range2:1000~26500MHz	-40.28	PASS
Band41	5MHz	64QAM	41565	1RB#0	Range1:30~1000MHz	-47.11	PASS
Band41	5MHz	64QAM	41565	1RB#0	Range2:1000~26500MHz	-39.28	PASS
Band41	20MHz	QPSK	39750	1RB#0	Range1:30~1000MHz	-46.41	PASS
Band41	20MHz	QPSK	39750	1RB#0	Range2:1000~26500MHz	-39.49	PASS
Band41	20MHz	QPSK	40620	1RB#0	Range1:30~1000MHz	-47.3	PASS
Band41	20MHz	QPSK	40620	1RB#0	Range2:1000~26500MHz	-40.02	PASS
Band41	20MHz	QPSK	41490	1RB#0	Range1:30~1000MHz	-47.81	PASS
Band41	20MHz	QPSK	41490	1RB#0	Range2:1000~26500MHz	-39.51	PASS
Band41	20MHz	16QAM	39750	1RB#0	Range1:30~1000MHz	-47.03	PASS
Band41	20MHz	16QAM	39750	1RB#0	Range2:1000~26500MHz	-40.09	PASS
Band41	20MHz	16QAM	40620	1RB#0	Range1:30~1000MHz	-46.89	PASS
Band41	20MHz	16QAM	40620	1RB#0	Range2:1000~26500MHz	-39.32	PASS
Band41	20MHz	16QAM	41490	1RB#0	Range1:30~1000MHz	-48.3	PASS
Band41	20MHz	16QAM	41490	1RB#0	Range2:1000~26500MHz	-39.69	PASS
Band41	20MHz	64QAM	39750	1RB#0	Range1:30~1000MHz	-47.25	PASS
Band41	20MHz	64QAM	39750	1RB#0	Range2:1000~26500MHz	-37.56	PASS
Band41	20MHz	64QAM	40620	1RB#0	Range1:30~1000MHz	-46.72	PASS
Band41	20MHz	64QAM	40620	1RB#0	Range2:1000~26500MHz	-38.65	PASS
Band41	20MHz	64QAM	41490	1RB#0	Range1:30~1000MHz	-46.3	PASS

Band41	20MHz	64QAM	41490	1RB#0	Range2:1000~26500MHz	-39.52	PASS
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Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

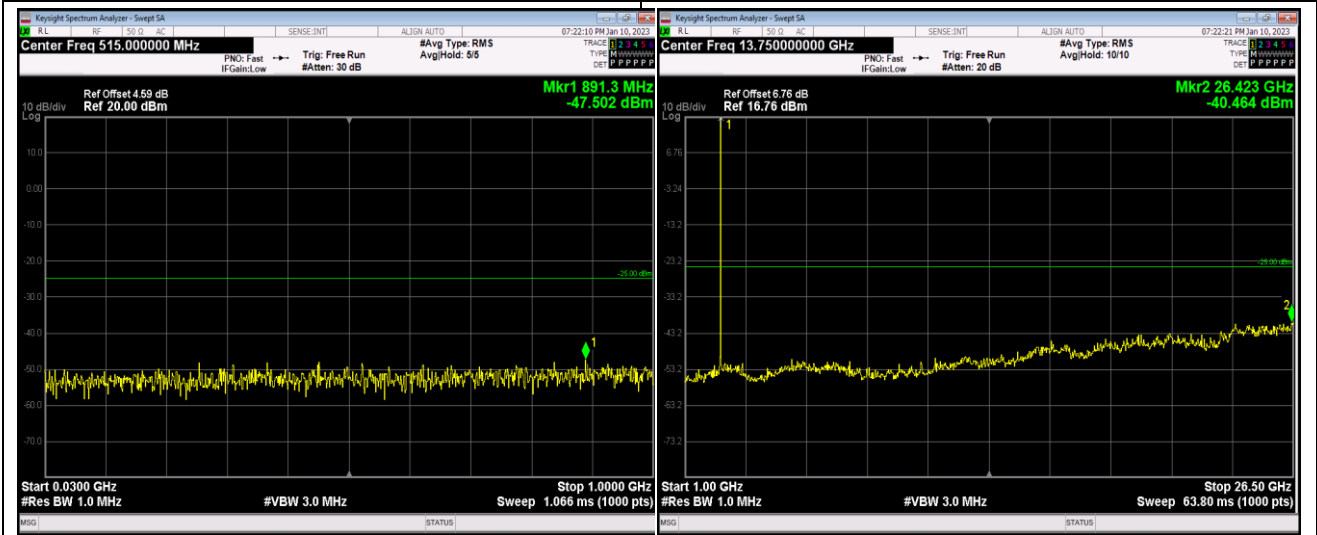
Test Graphs





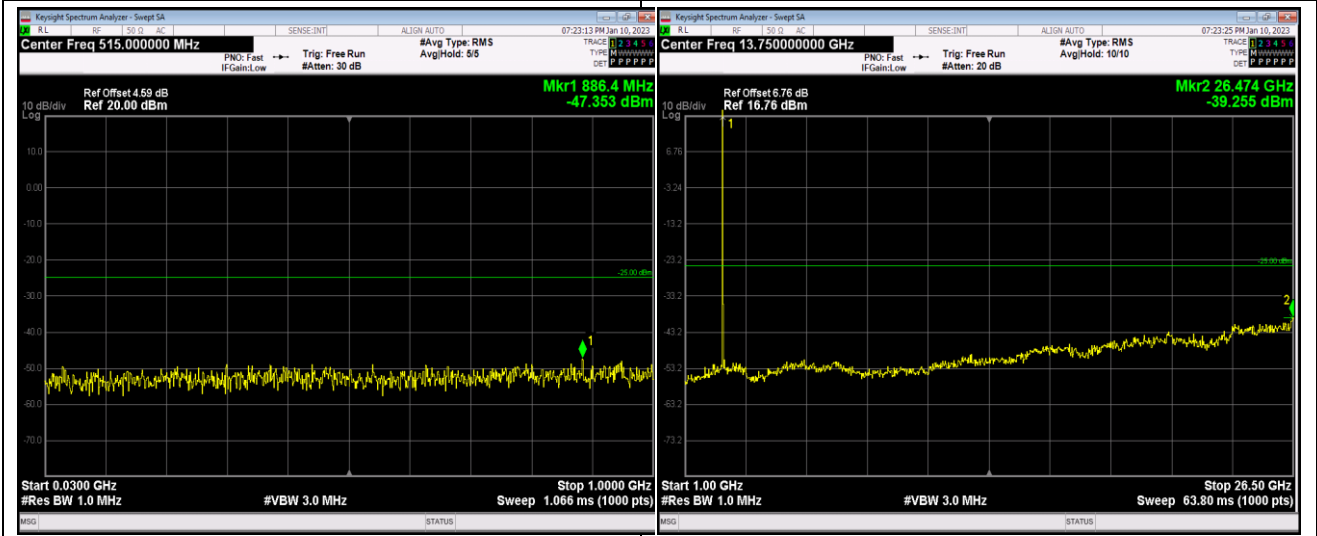
Band41-5MHz-16QAM-39675-1RB#0-Range1:30~1000MHz

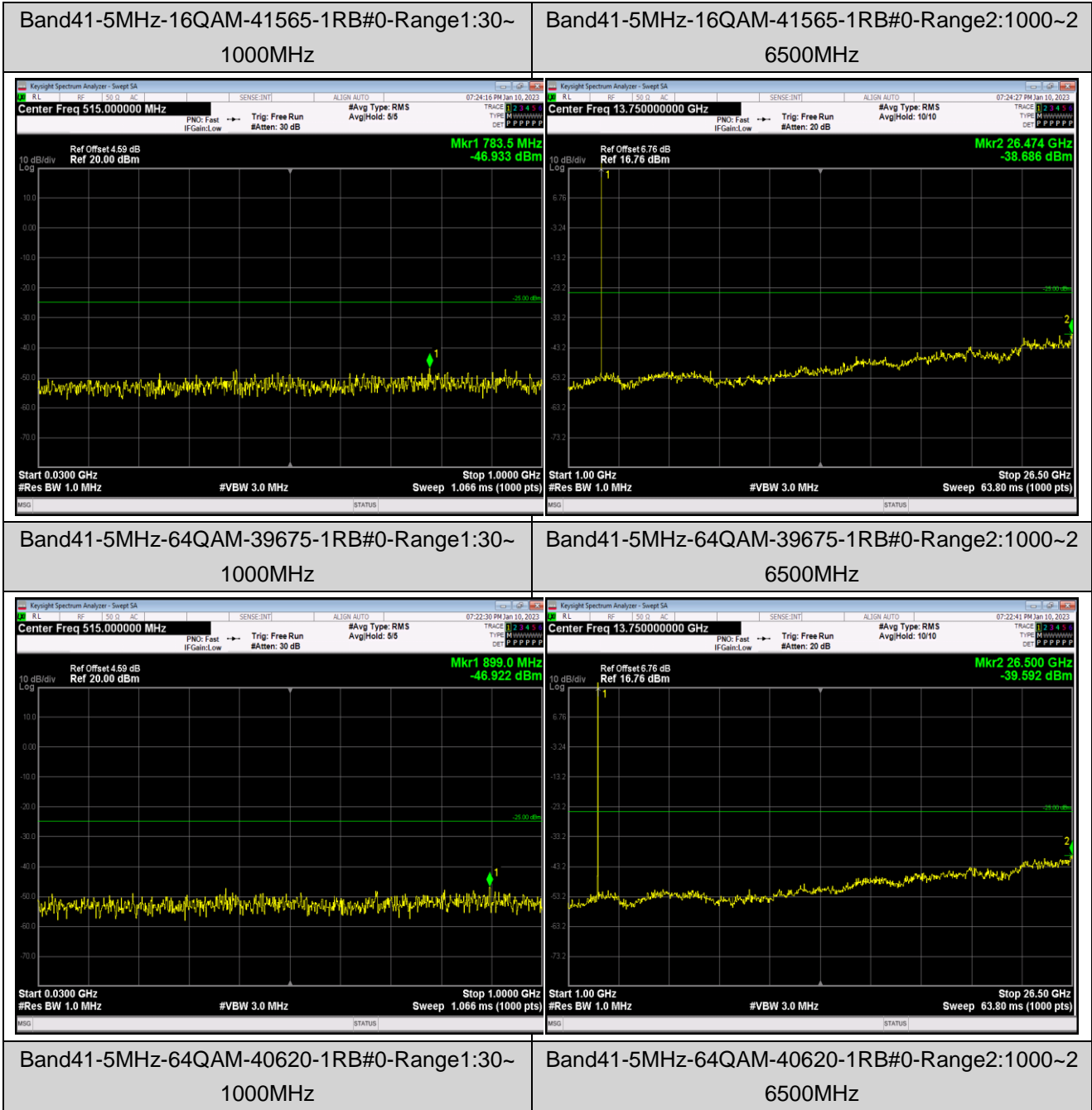
Band41-5MHz-16QAM-39675-1RB#0-Range2:1000~26500MHz

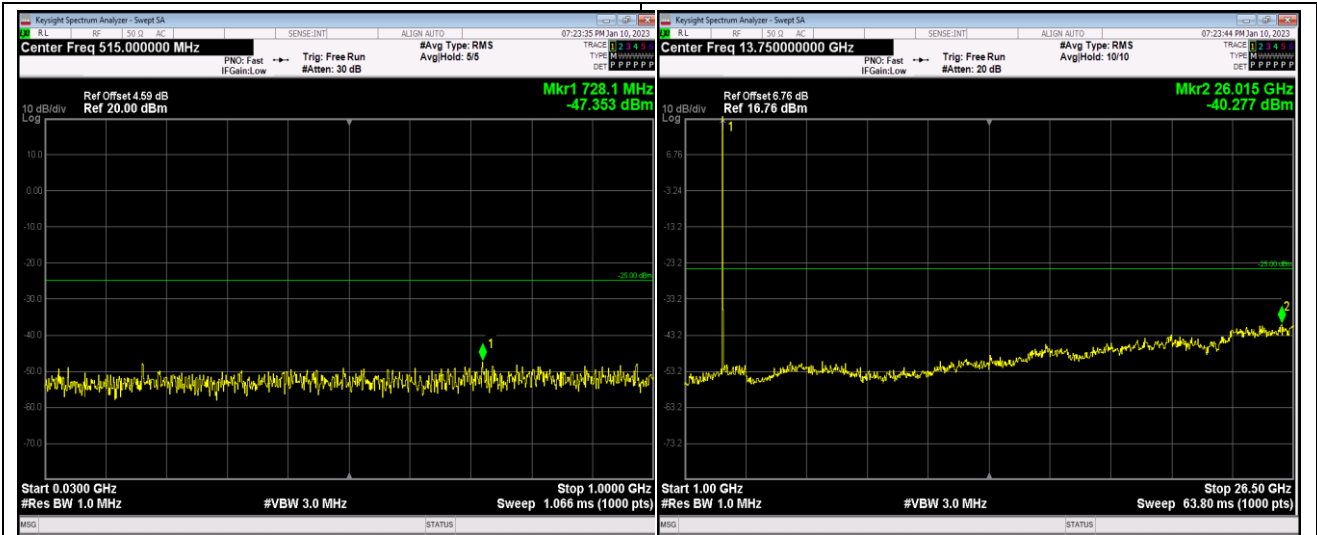


Band41-5MHz-16QAM-40620-1RB#0-Range1:30~1000MHz

Band41-5MHz-16QAM-40620-1RB#0-Range2:1000~26500MHz

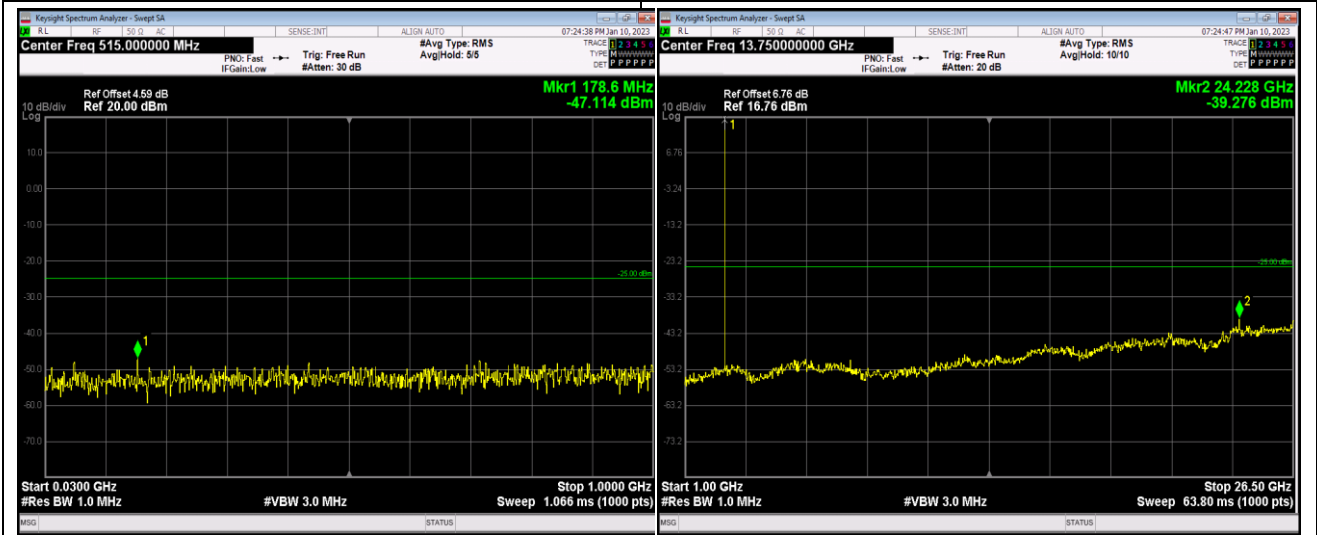






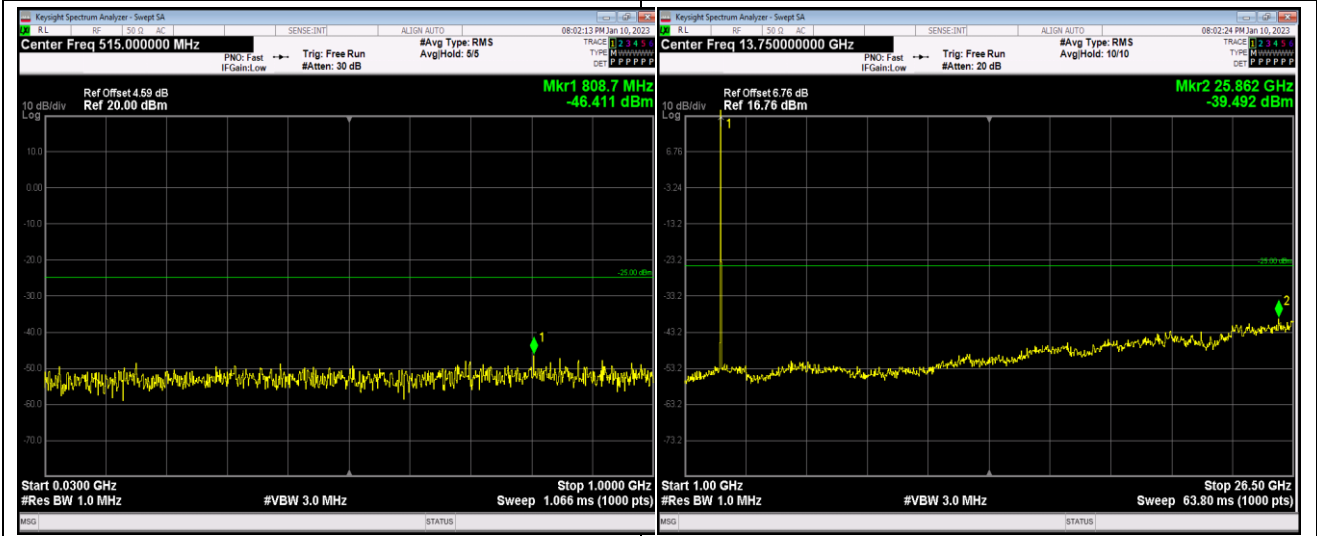
Band41-5MHz-64QAM-41565-1RB#0-Range1:30~1000MHz

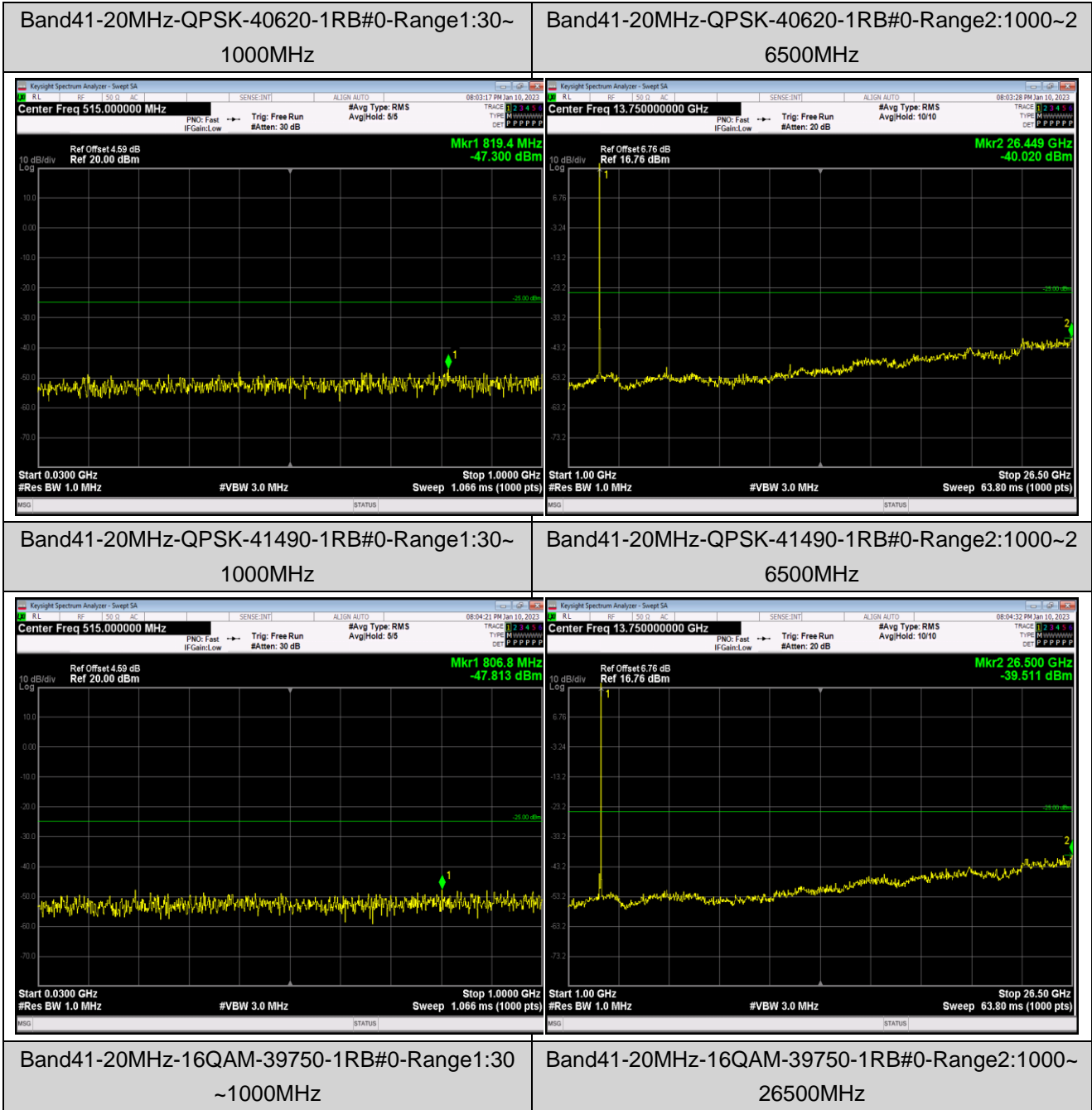
Band41-5MHz-64QAM-41565-1RB#0-Range2:1000~6500MHz

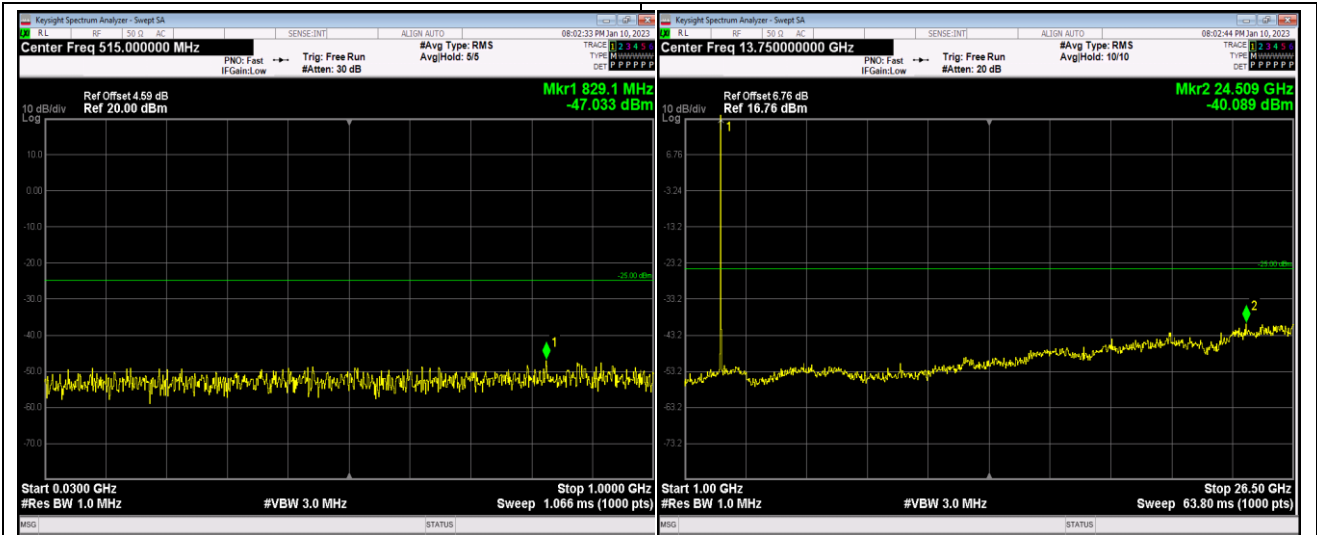


Band41-20MHz-QPSK-39750-1RB#0-Range1:30~1000MHz

Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~6500MHz

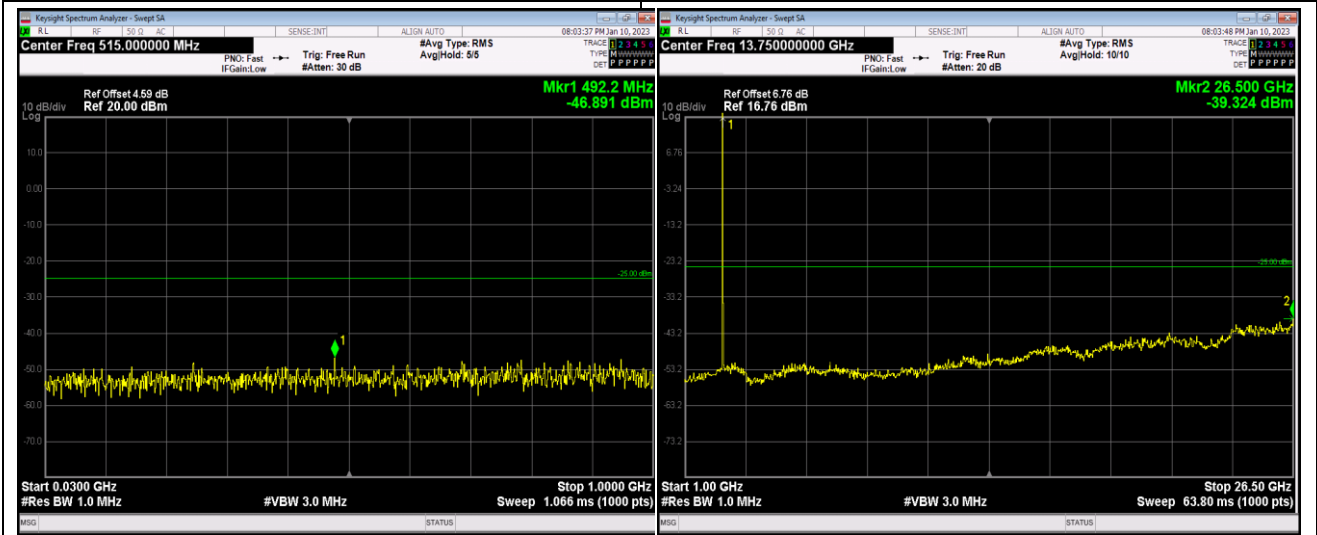






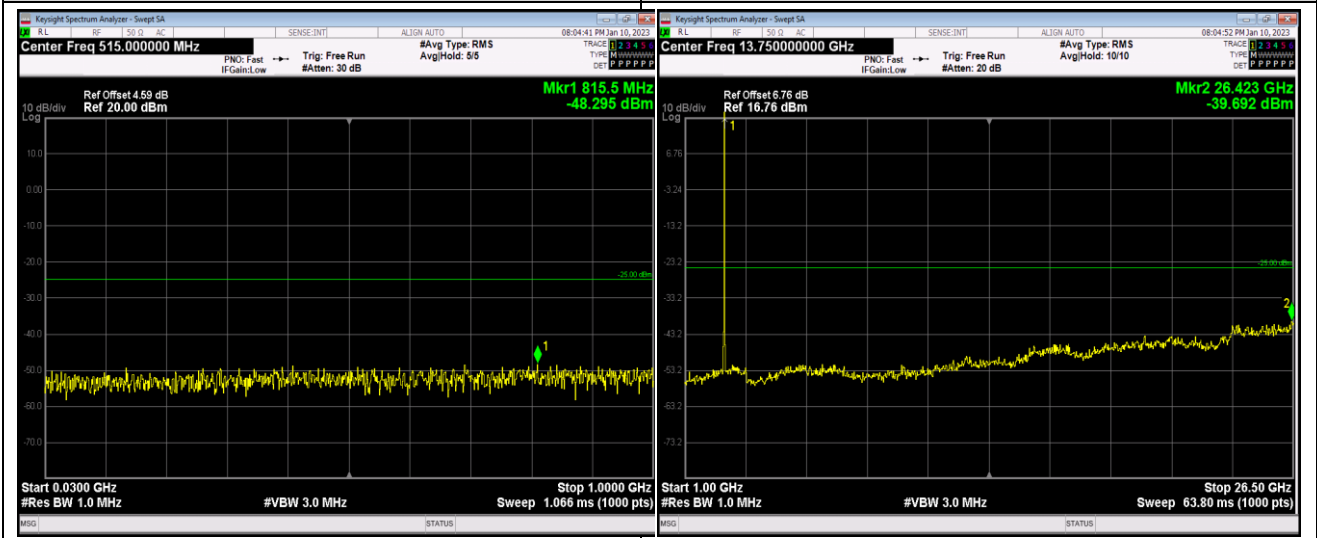
Band41-20MHz-16QAM-40620-1RB#0-Range1:30
 ~1000MHz

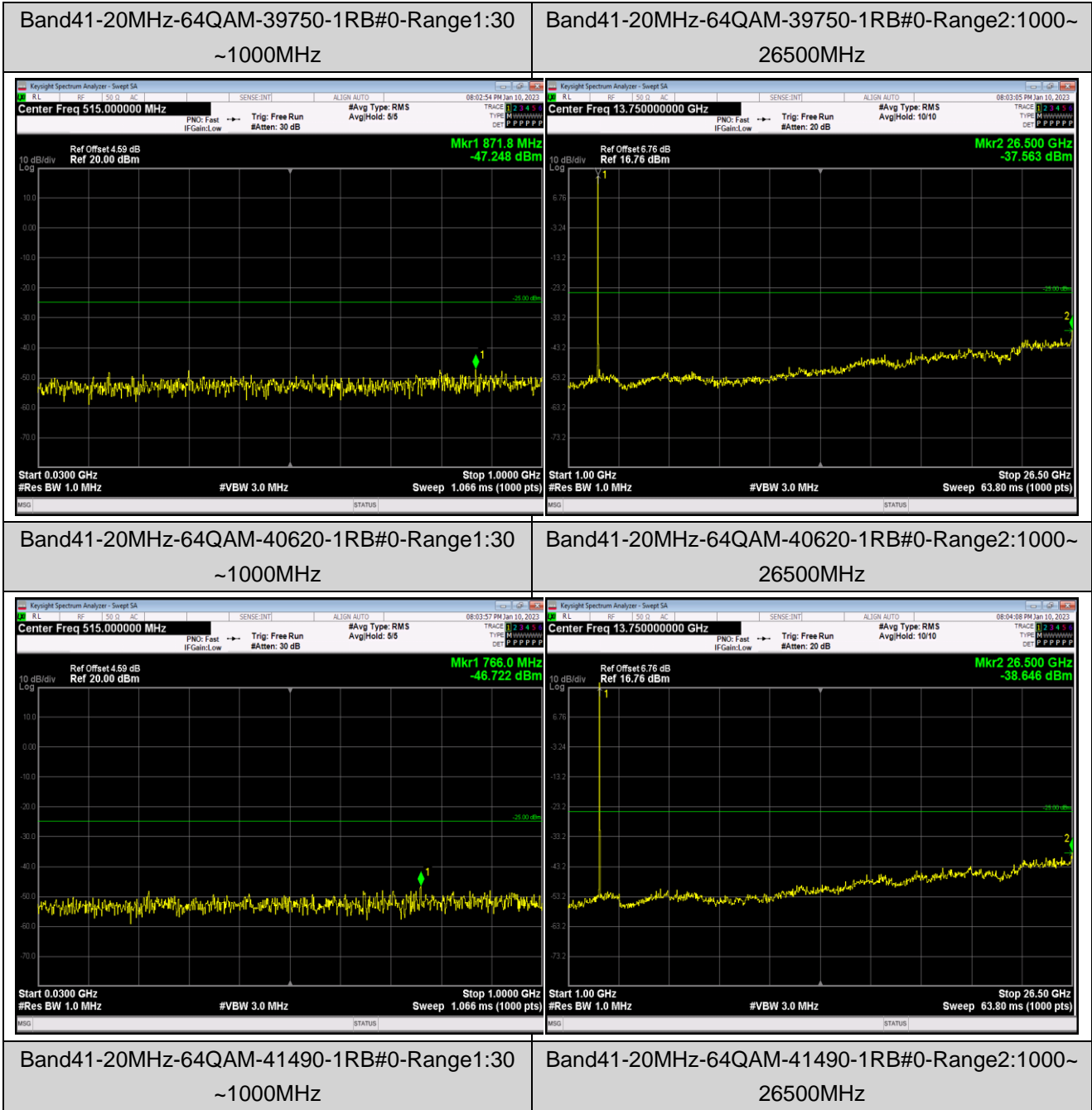
Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~
 26500MHz

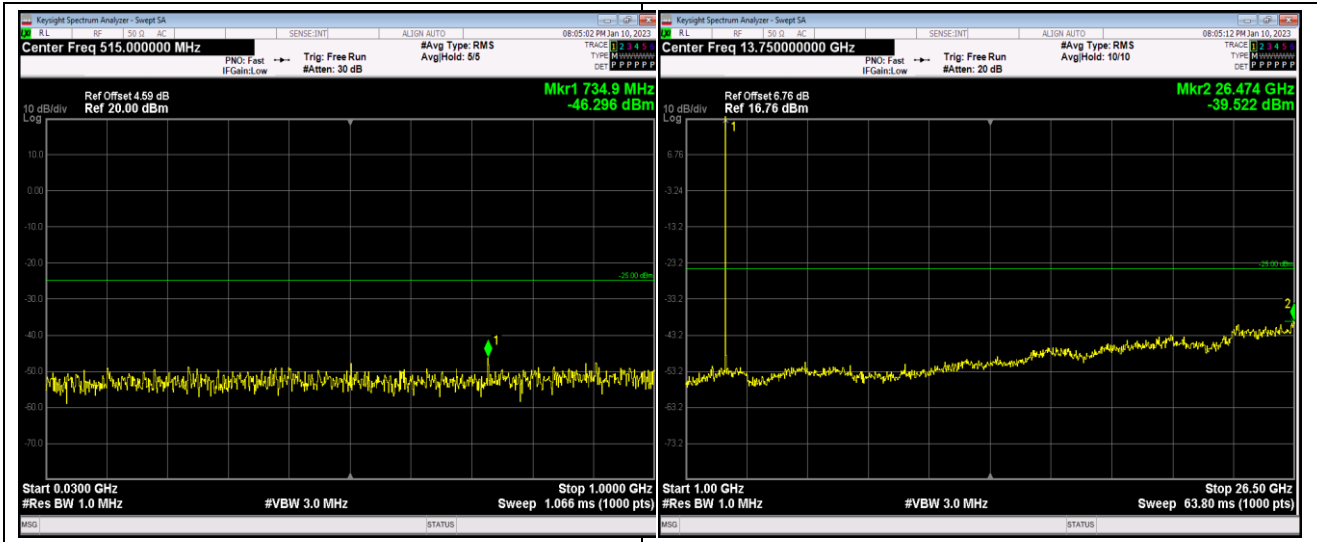


Band41-20MHz-16QAM-41490-1RB#0-Range1:30
 ~1000MHz

Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~
 26500MHz







Appendix F: Frequency Stability

Test Result

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40640 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.89	-30	15.58	0.006008	Within authorized band for Band 41	Pass
	-20	12.40	0.004782		
	-10	-17.27	-0.006660		
	0	-12.75	-0.004917		
	10	15.76	0.006078		
	20	14.55	0.005611		
	30	12.76	0.004921		
	40	9.46	0.003648		
	50	-10.07	-0.003884		
16QAM					
3.89	-30	-16.87	-0.006506	Within authorized band for Band 41	Pass
	-20	-18.41	-0.007100		
	-10	14.31	0.005519		
	0	16.04	0.006186		
	10	16.89	0.006514		
	20	-10.90	-0.004204		
	30	15.16	0.005847		
	40	-8.93	-0.003444		
	50	14.58	0.005623		
64QAM					
3.89	-30	13.43	0.005179	Within authorized band for Band 41	Pass
	-20	-14.38	-0.005546		
	-10	16.51	0.006367		
	0	13.58	0.005237		
	10	17.50	0.006749		
	20	12.96	0.004998		
	30	16.22	0.006255		
	40	-14.51	-0.005596		
	50	-13.33	-0.005141		
Voltage					
Temperature	Power supplied	Frequency error		Limit (ppm)	Result

(°C)	(Vdc)	Hz	ppm		
QPSK					
25	3.45	18.68	0.007204	Within authorized band for Band 41	Pass
	3.89	14.52	0.005600		
	4.48	-13.12	-0.005060		
16QAM					
25	3.45	-12.07	-0.004655	Within authorized band for Band41	Pass
	3.89	11.77	0.004539		
	4.48	10.81	0.004169		
64QAM					
	3.45	-11.53	-0.004447	Within authorized band for Band41	Pass
	3.89	15.12	0.005831		
	4.48	-11.57	-0.004462		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.