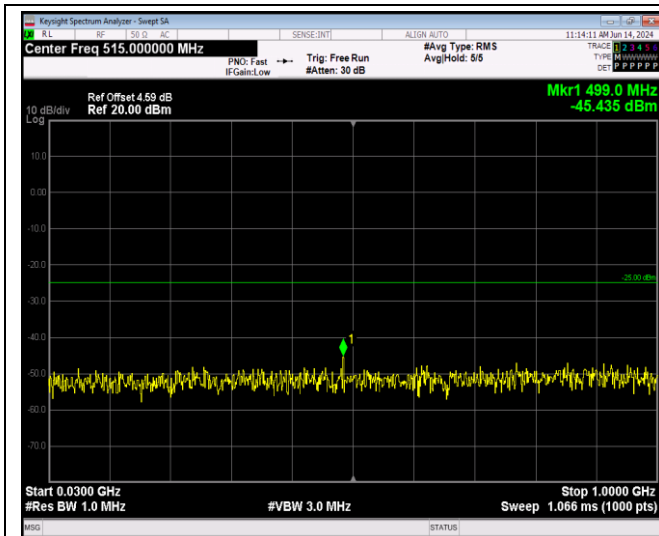
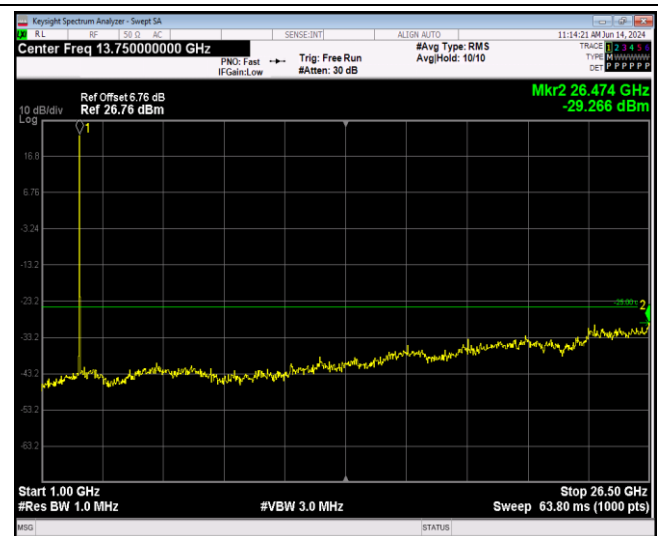
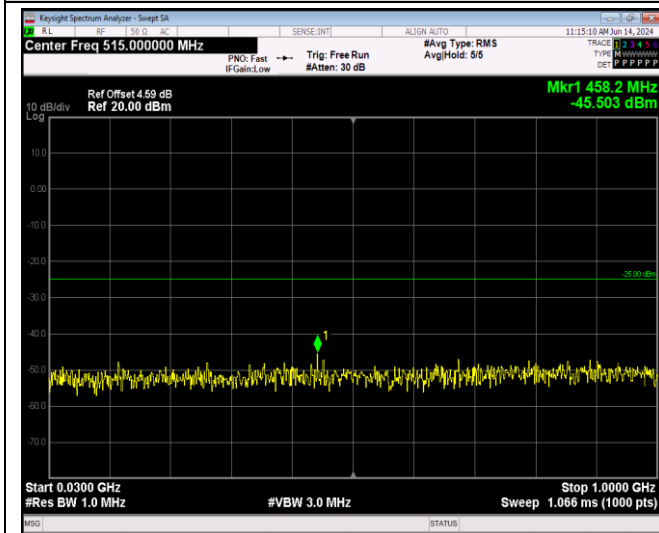




Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz



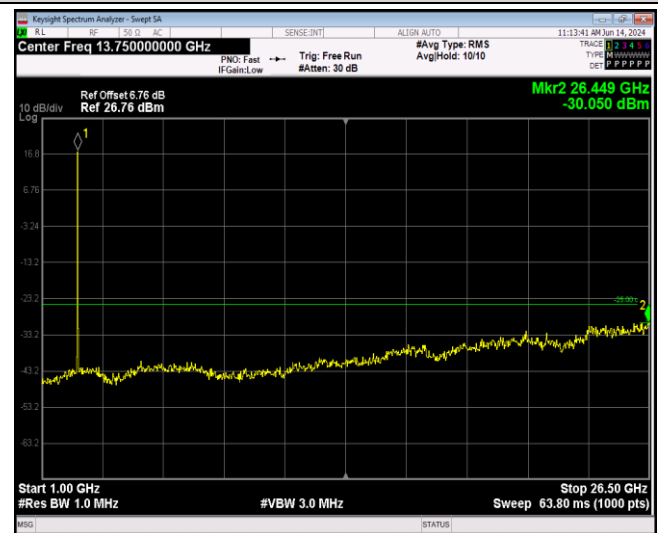
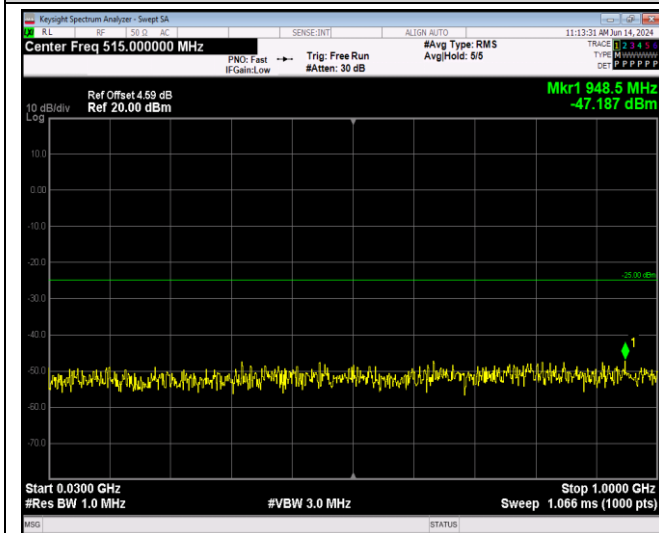
Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~26500MHz



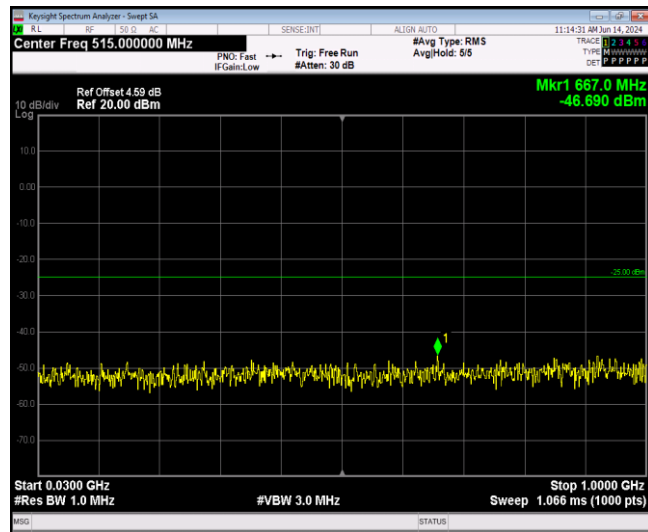
Band41-20MHz-64QAM-39750-1RB#0-Range1:30~1000MHz



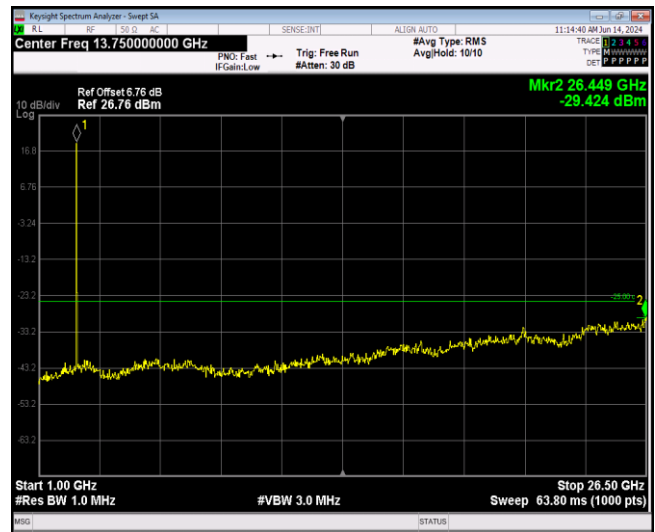
Band41-20MHz-64QAM-39750-1RB#0-Range2:1000~26500MHz



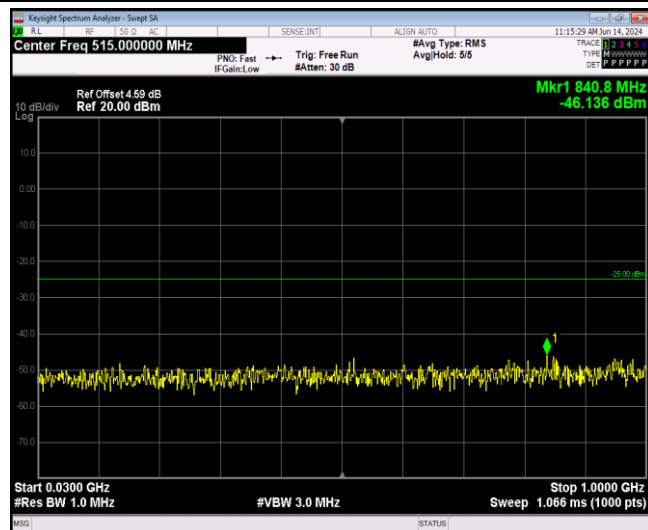
Band41-20MHz-64QAM-40620-1RB#0-Range1:30~10
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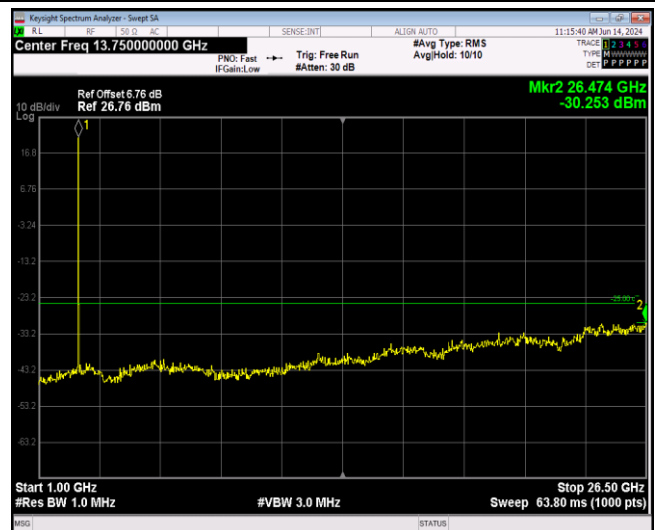
Band41-20MHz-64QAM-40620-1RB#0-Range2:1000~26
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Band41-20MHz-64QAM-41490-1RB#0-Range1:30~10
00MHz

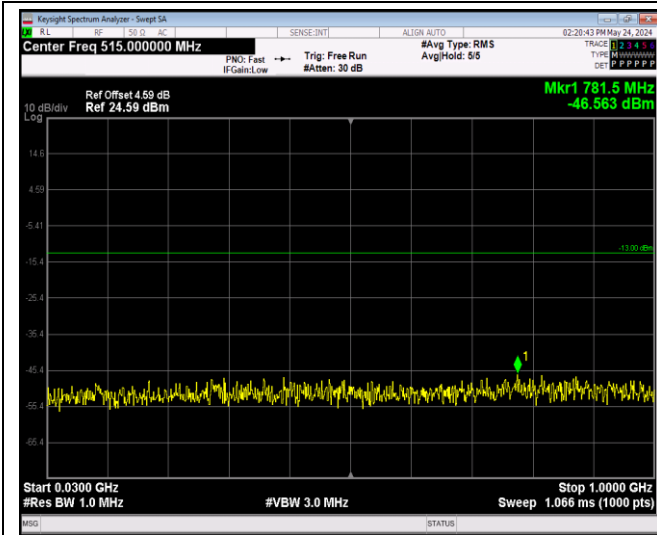


Band41-20MHz-64QAM-41490-1RB#0-Range2:1000~26
500MHz



Band66-1.4MHz-QPSK-131979-1RB#0-Range1:30~1
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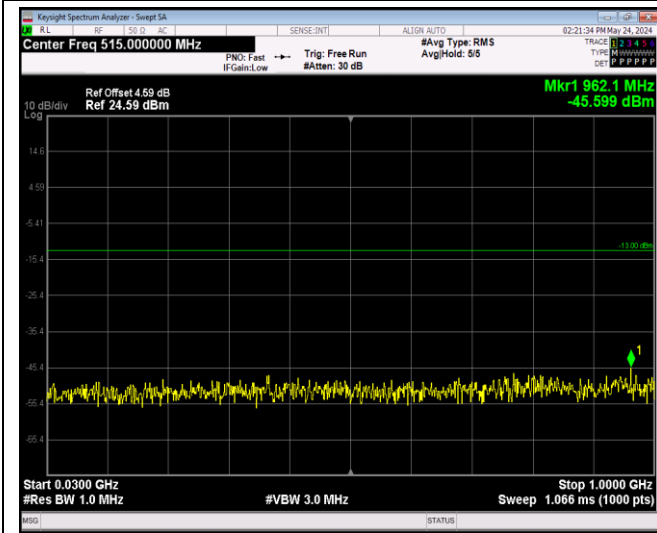
Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000~20
000MHz



Band66-1.4MHz-QPSK-132322-1RB#0-Range1:30~1000MHz



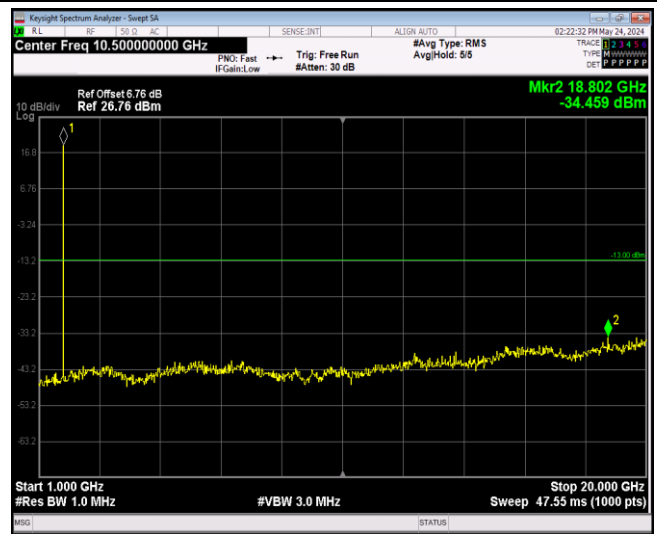
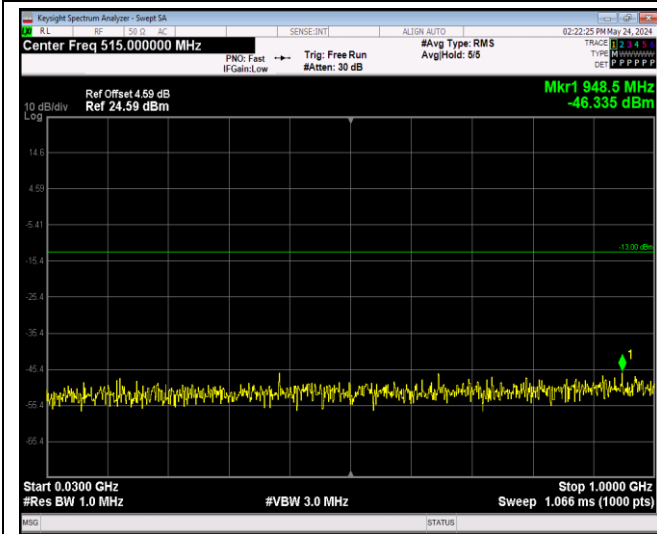
Band66-1.4MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz



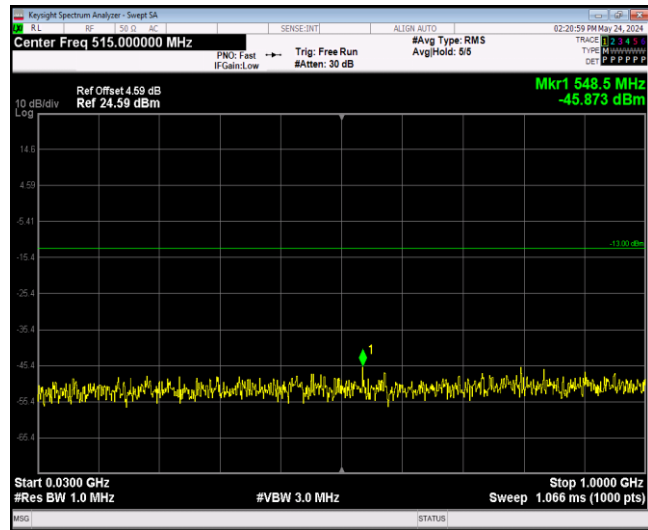
Band66-1.4MHz-QPSK-132665-1RB#0-Range1:30~1000MHz



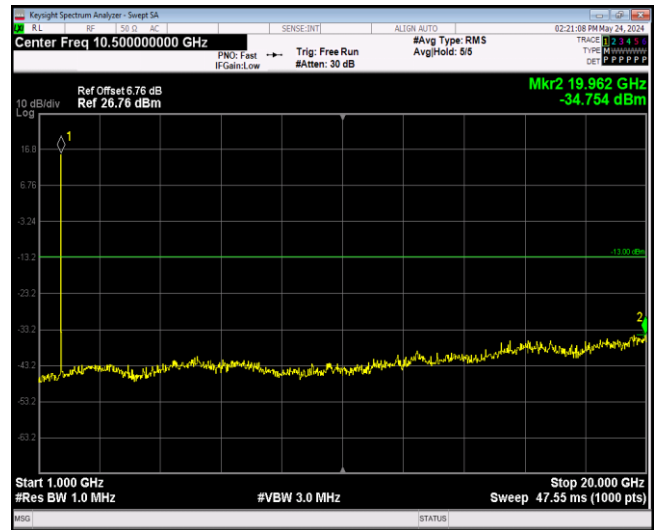
Band66-1.4MHz-QPSK-132665-1RB#0-Range2:1000~20000MHz



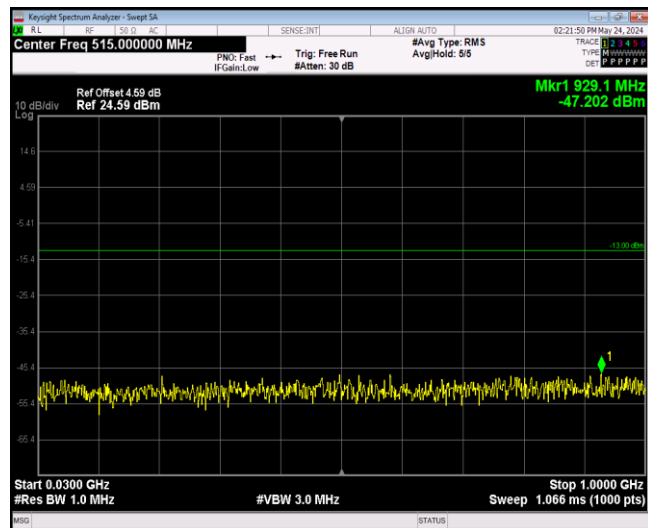
Band66-1.4MHz-16QAM-131979-1RB#0-Range1:30~1000MHz



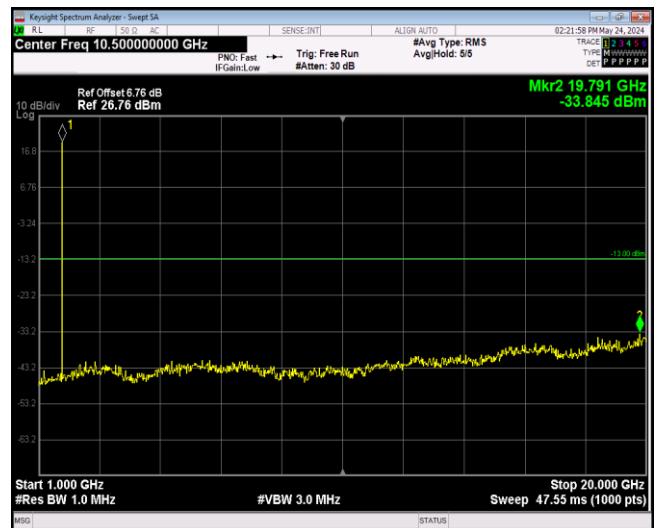
Band66-1.4MHz-16QAM-131979-1RB#0-Range2:1000~20000MHz



Band66-1.4MHz-16QAM-132322-1RB#0-Range1:30~1000MHz



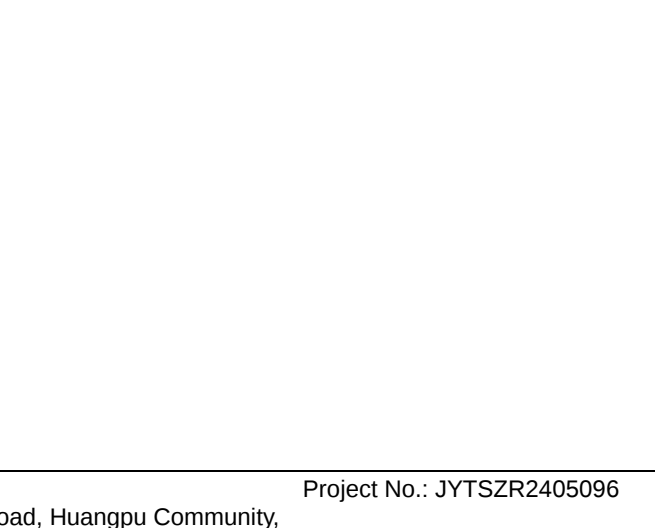
Band66-1.4MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz

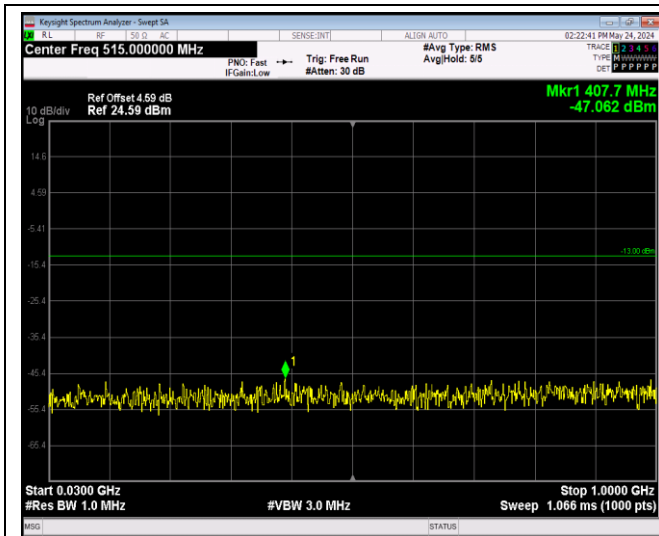


Band66-1.4MHz-16QAM-132665-1RB#0-Range1:30~1000MHz

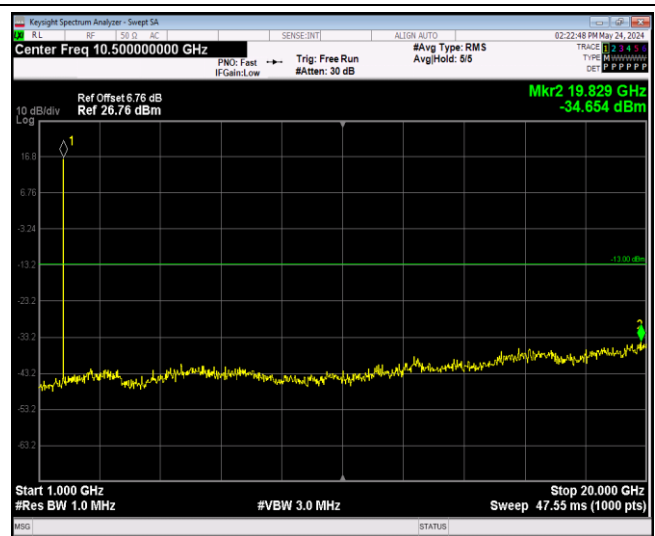


Band66-1.4MHz-16QAM-132665-1RB#0-Range2:1000~20000MHz

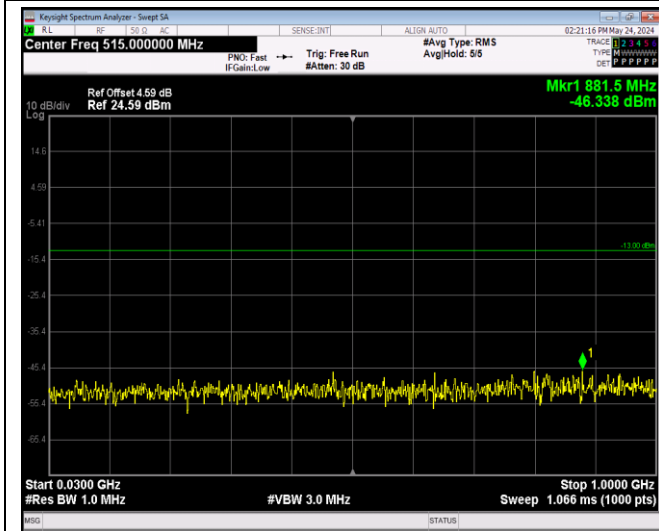




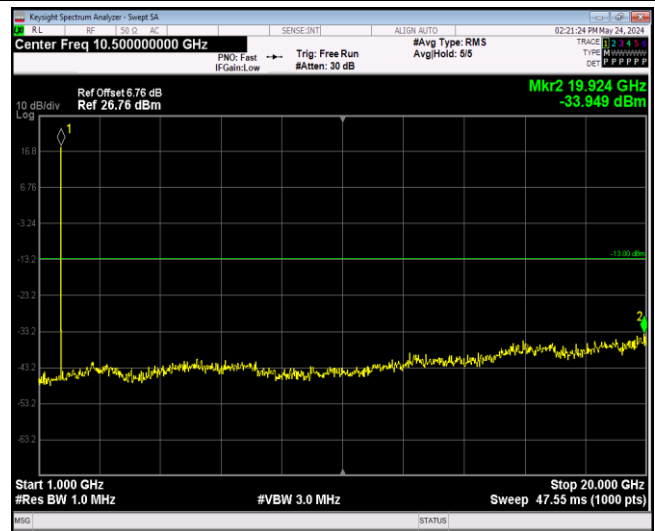
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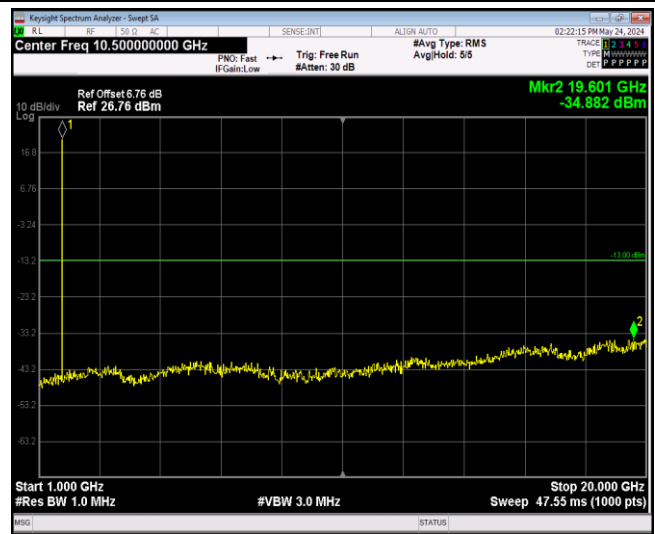
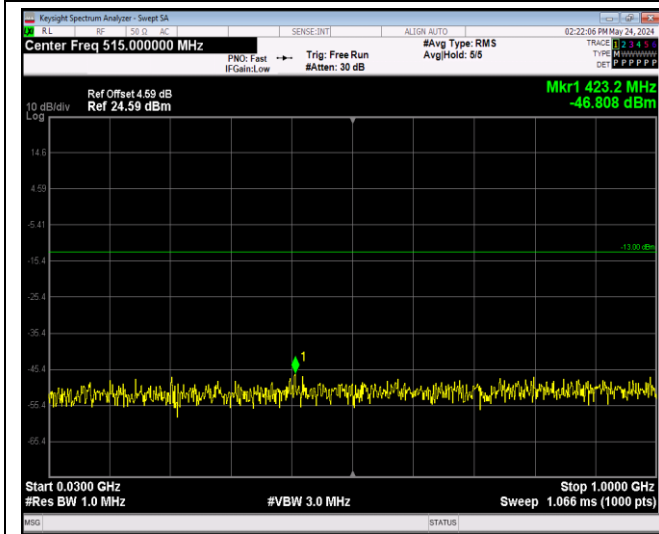
Band66-1.4MHz-64QAM-131979-1RB#0-Range2:1000~20000MHz



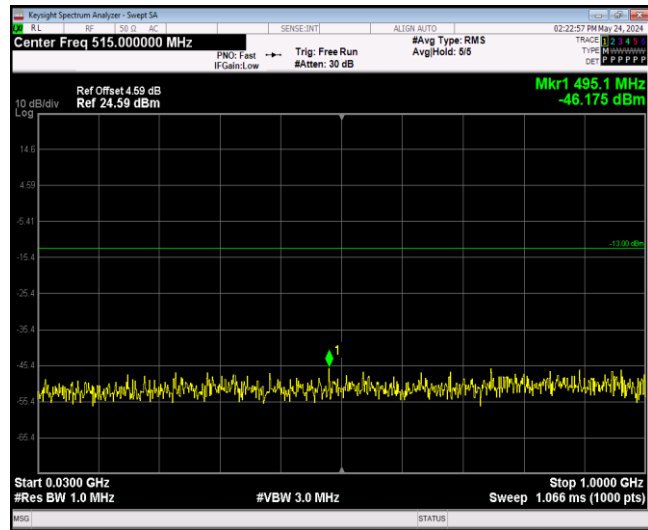
Band66-1.4MHz-64QAM-132322-1RB#0-Range1:30~1000MHz



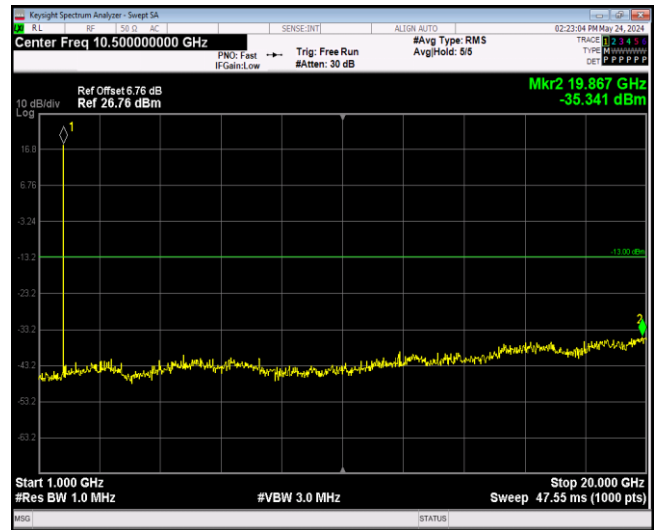
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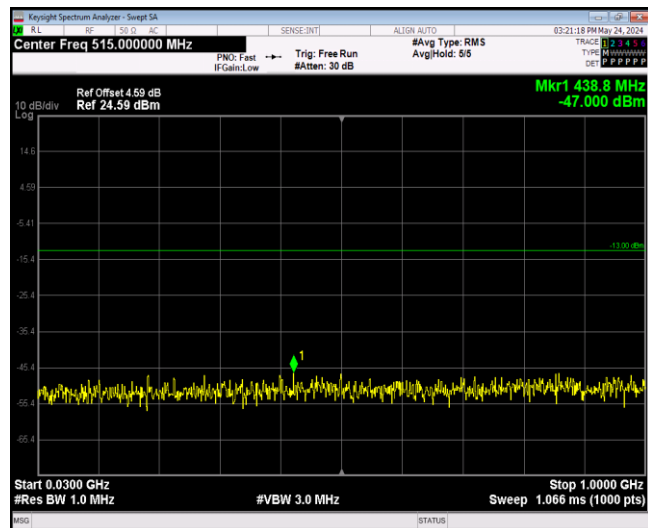
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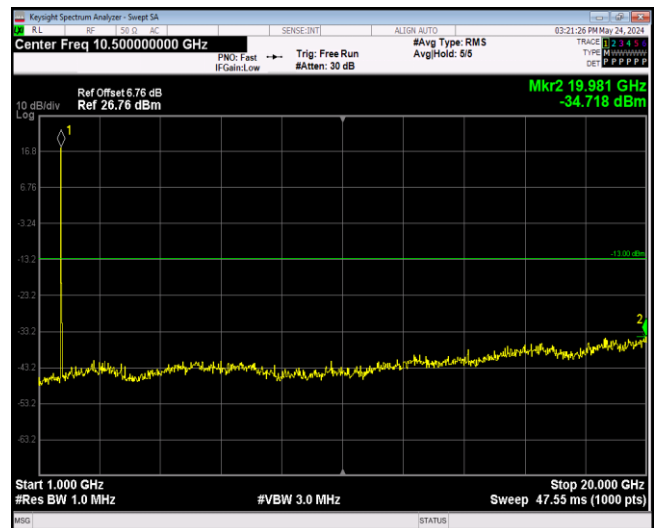
Band66-1.4MHz-64QAM-132665-1RB#0-Range2:1000~20000MHz



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



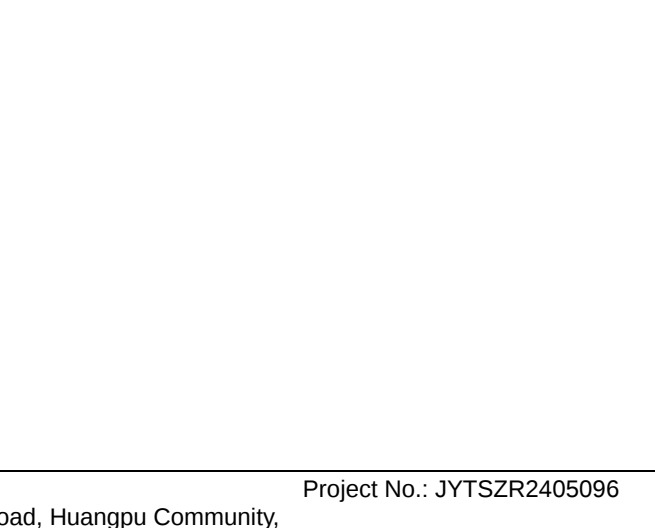
Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz

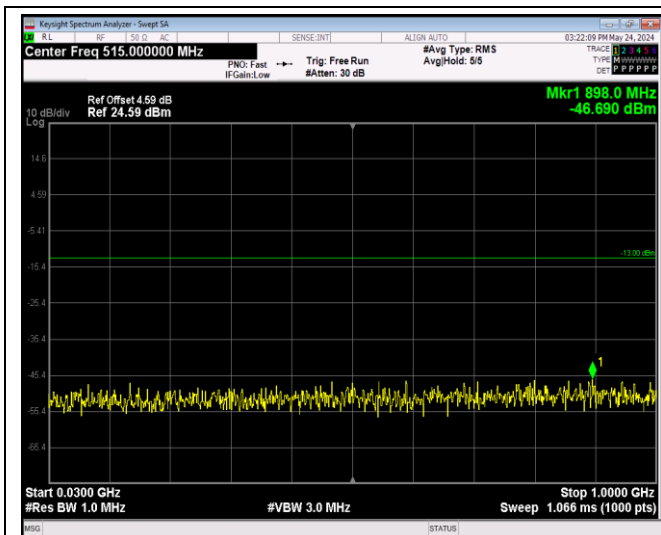


Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz

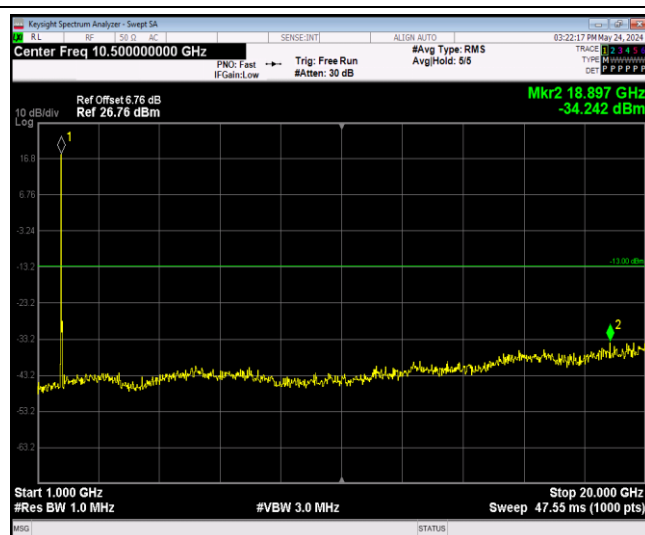


Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz

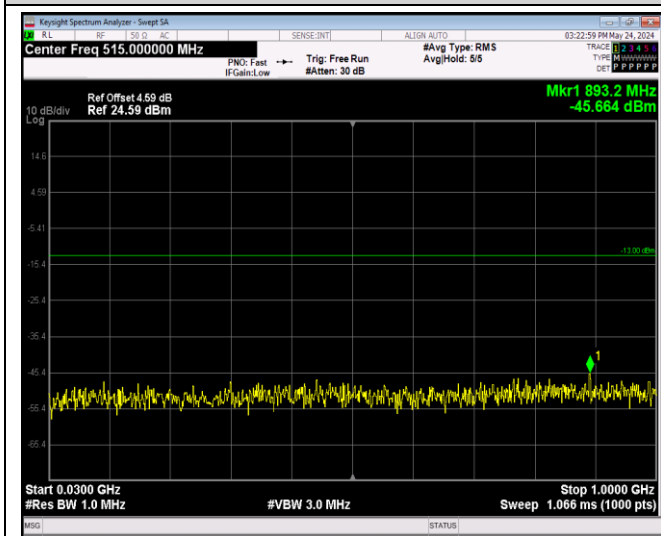




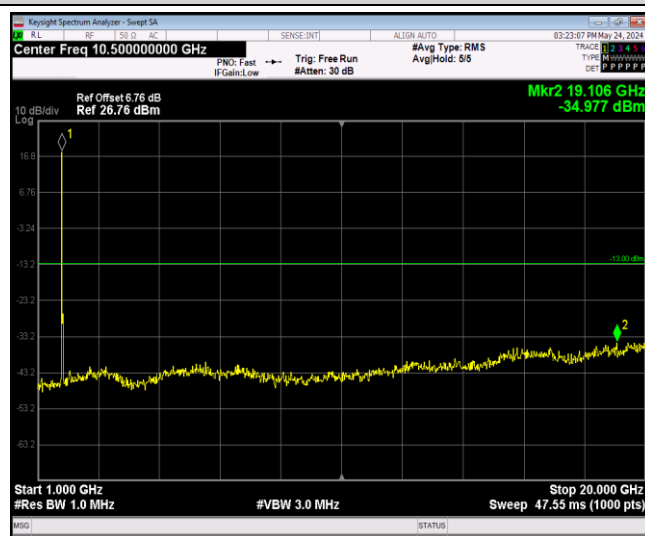
Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz



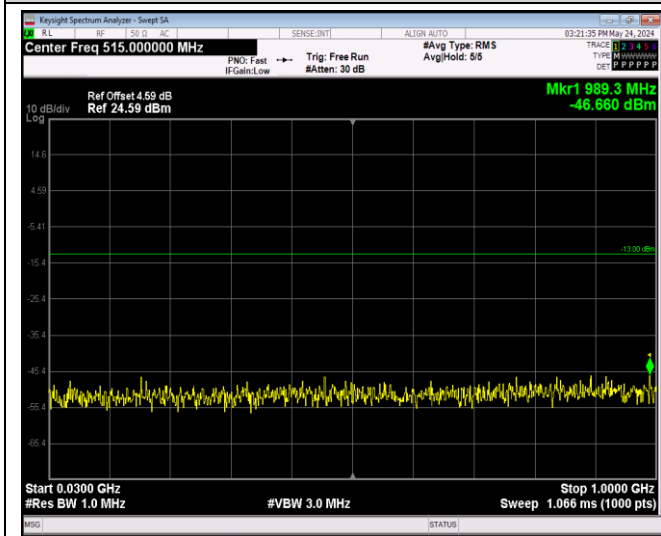
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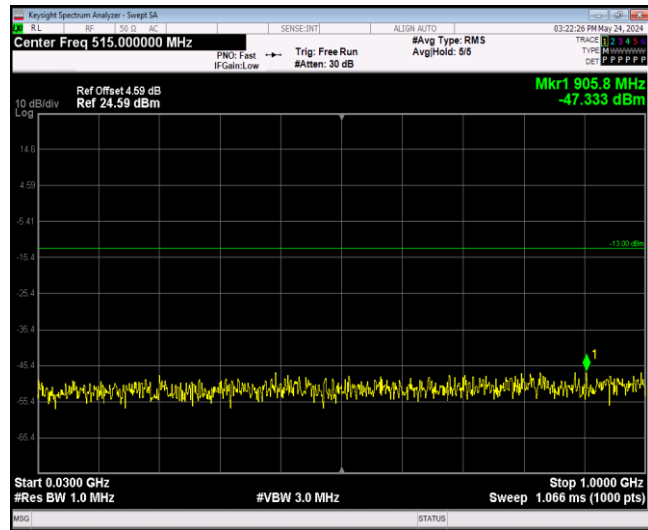
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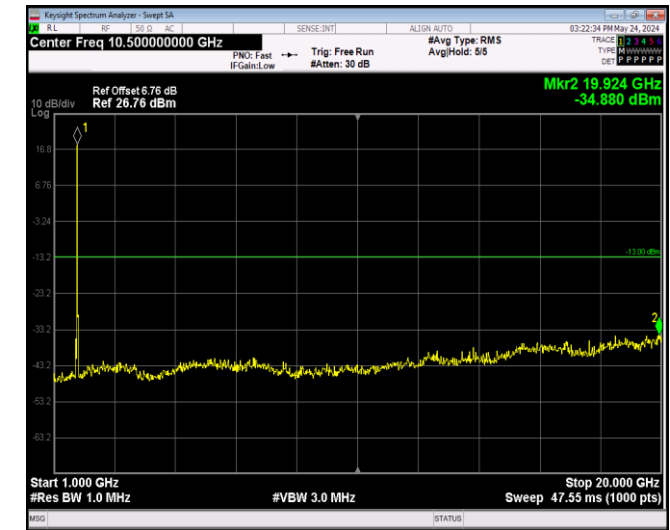
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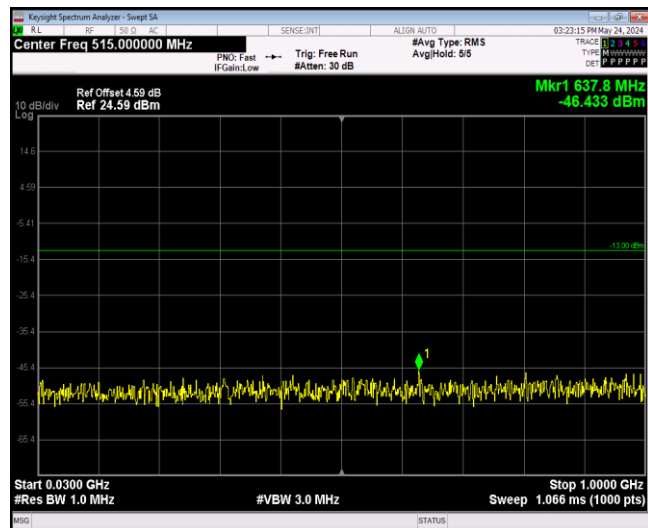
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000MHz



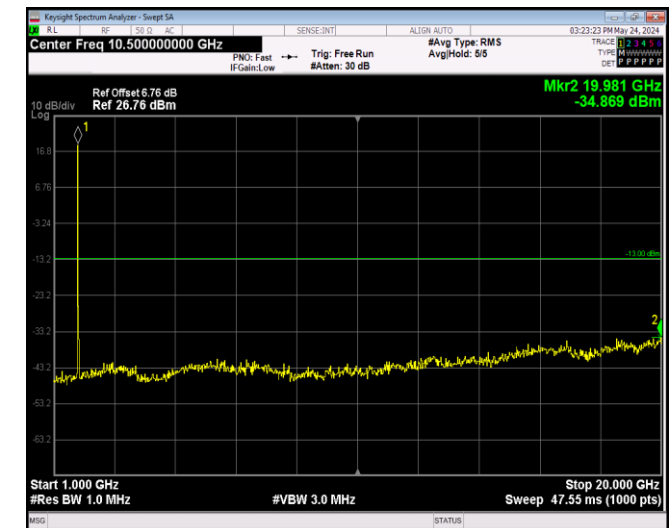
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Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1
000MHz



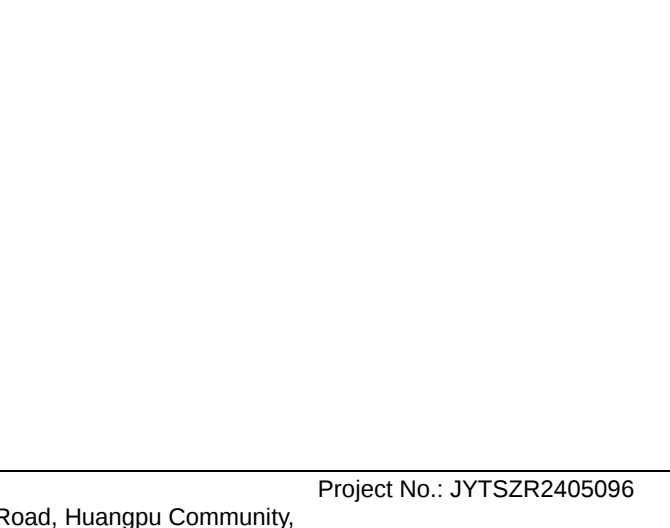
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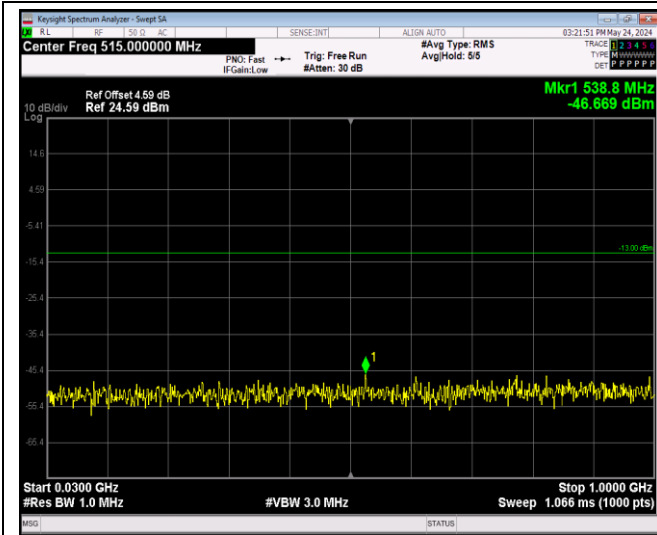


Band66-20MHz-64QAM-132072-1RB#0-Range1:30~1
000MHz

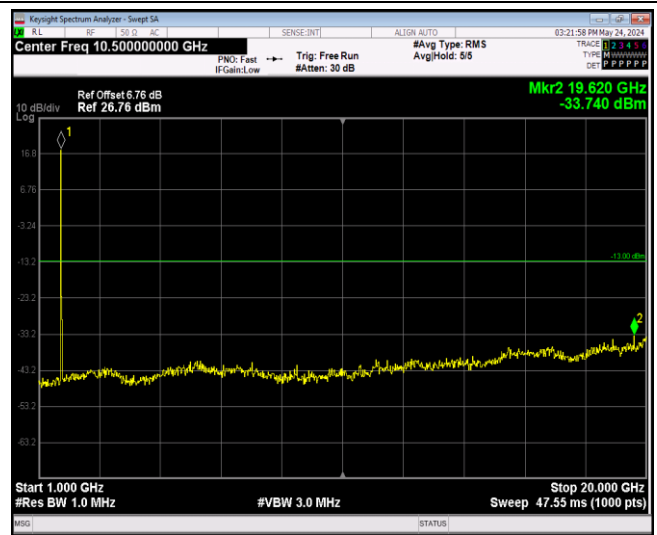


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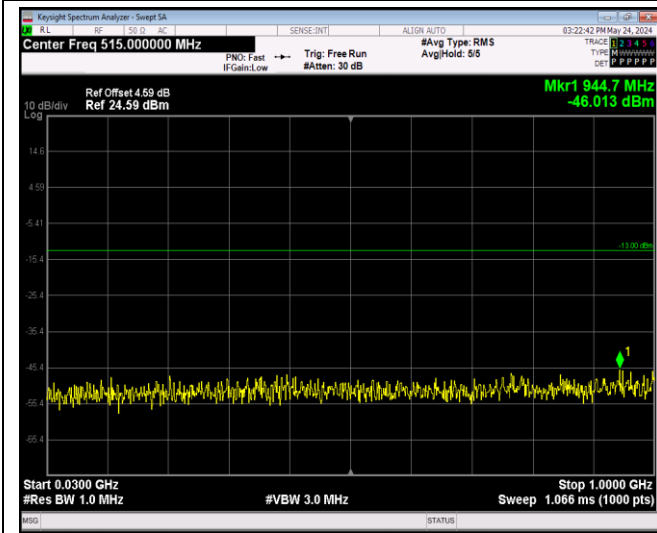




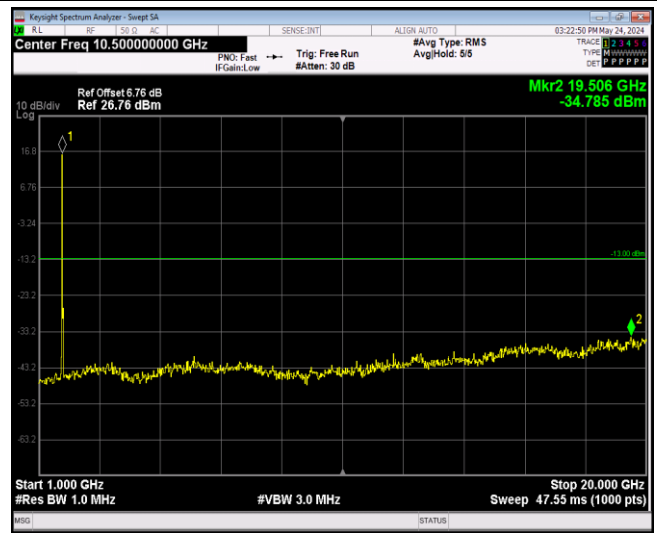
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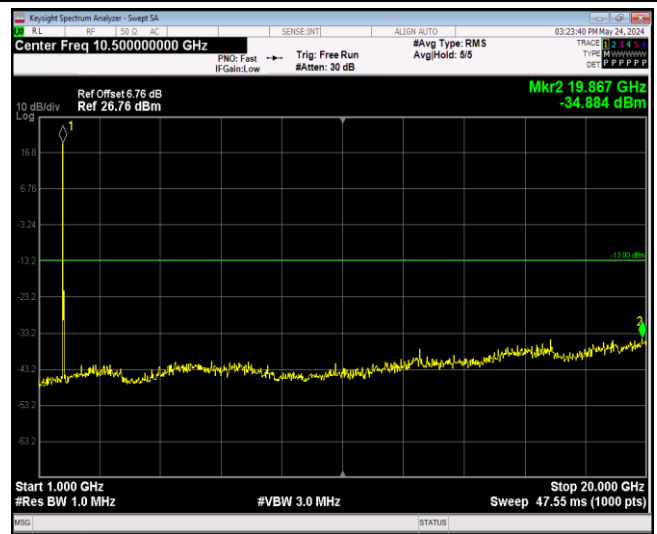
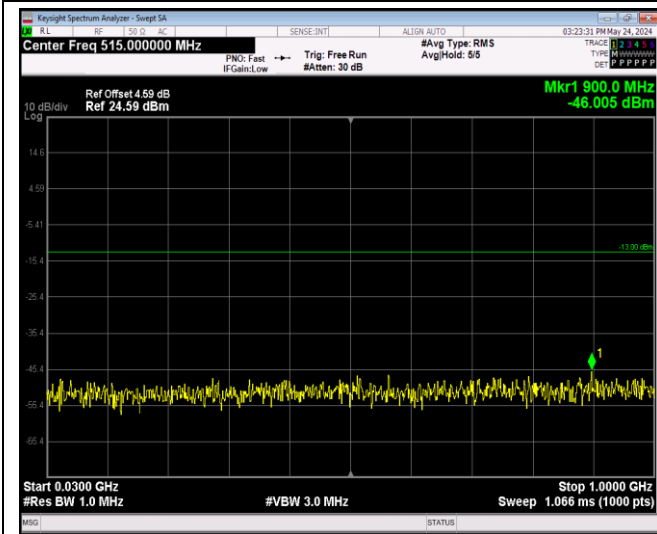
Band66-20MHz-64QAM-132322-1RB#0-Range2:1000~20000MHz



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					
3.85	-30	-10.81	-0.005750	Within authorized band for Band 2	Pass
	-20	-18.71	-0.009952		
	-10	-15.58	-0.008287		
	0	-10.76	-0.005723		
	10	-16.38	-0.008713		
	20	-16.99	-0.009037		
	30	-16.85	-0.008963		
	40	-13.93	-0.007410		
	50	-14.78	-0.007862		
16QAM					
3.85	-30	-7.37	-0.003920	Within authorized band for Band 2	Pass
	-20	-16.67	-0.008867		
	-10	-9.97	-0.005303		
	0	-12.19	-0.006484		
	10	-19.86	-0.010564		
	20	-12.87	-0.006846		
	30	-15.85	-0.008431		
	40	-15.11	-0.008037		
	50	-7.81	-0.004154		
64QAM					
3.85	-30	-17.55	-0.009335	Within authorized band for Band 2	Pass
	-20	-12.20	-0.006489		
	-10	-12.45	-0.006622		
	0	-14.36	-0.007638		
	10	-13.56	-0.007213		
	20	-10.03	-0.005335		
	30	-13.53	-0.007197		
	40	-10.54	-0.005606		
	50	-18.63	-0.009910		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-14.55	-0.007739	Within authorized band for Band 2	Pass
	3.85	-6.47	-0.003441		
	4.35	-10.81	-0.005750		
16QAM					
25	3.40	-13.07	-0.006952	Within authorized band for Band 2	Pass
	3.85	-6.55	-0.003484		
	4.35	-13.30	-0.007074		
64QAM					
25	3.40	-11.96	-0.006362	Within authorized band for Band 2	Pass
	3.85	-9.88	-0.005255		
	4.35	-13.25	-0.007048		
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					
3.85	-30	-10.51	-0.012564	±2.5	Pass
	-20	-11.80	-0.014106		
	-10	-12.83	-0.015338		
	0	-7.42	-0.008870		
	10	-12.03	-0.014381		
	20	-10.44	-0.012481		
	30	-11.27	-0.013473		
	40	-9.36	-0.011189		
	50	-5.11	-0.006109		
16QAM					
3.85	-30	-1.86	-0.002224	±2.5	Pass
	-20	-5.02	-0.006001		
	-10	-7.01	-0.008380		
	0	-9.71	-0.011608		
	10	-5.01	-0.005989		
	20	-6.15	-0.007352		
	30	-3.05	-0.003646		
	40	-1.09	-0.001303		
	50	-1.27	-0.001518		
64QAM					
3.85	-30	-3.71	-0.004435	±2.5	Pass
	-20	-10.81	-0.012923		
	-10	-4.86	-0.005810		
	0	-6.65	-0.007950		
	10	-4.05	-0.004842		
	20	-9.73	-0.011632		
	30	-8.14	-0.009731		
	40	-13.03	-0.015577		
	50	-7.90	-0.009444		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-8.04	-0.009611	±2.5	Pass
	3.85	-3.58	-0.004280		
	4.35	-13.82	-0.016521		
16QAM					
25	3.40	-7.04	-0.008416	±2.5	Pass
	3.85	-11.50	-0.013748		
	4.35	-7.11	-0.008500		
64QAM					
25	3.40	-6.22	-0.007436	±2.5	Pass
	3.85	-9.90	-0.011835		
	4.35	-2.36	-0.002821		
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					
3.85	-30	-11.66	-0.004600	Within authorized band for Band 7	Pass
	-20	-17.81	-0.007026		
	-10	-10.87	-0.004288		
	0	13.65	0.005385		
	10	-5.06	-0.001996		
	20	-9.88	-0.003897		
	30	-7.64	-0.003014		
	40	-19.23	-0.007586		
	50	-5.38	-0.002122		
16QAM					
3.85	-30	-17.58	-0.006935	Within authorized band for Band 7	Pass
	-20	-3.60	-0.001420		
	-10	-18.63	-0.007349		
	0	-10.87	-0.004288		
	10	-20.60	-0.008126		
	20	3.58	0.001412		
	30	-6.42	-0.002533		
	40	11.67	0.004604		
	50	-12.60	-0.004970		
64QAM					
3.85	-30	-10.96	-0.004323	Within authorized band for Band 7	Pass
	-20	-20.18	-0.007961		
	-10	9.41	0.003712		
	0	12.82	0.005057		
	10	-9.60	-0.003787		
	20	-19.27	-0.007602		
	30	2.79	0.001101		
	40	-16.61	-0.006552		
	50	-18.35	-0.007239		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-18.07	-0.007128	Within authorized band for Band 7	Pass
	3.85	-6.49	-0.002560		
	4.35	-2.79	-0.001101		
16QAM					
25	3.40	-15.55	-0.006134	Within authorized band for Band 7	Pass
	3.85	-17.81	-0.007026		
	4.35	-11.26	-0.004442		
64QAM					
25	3.40	-7.75	-0.003057	Within authorized band for Band 7	Pass
	3.85	-9.70	-0.003826		
	4.35	10.79	0.004256		
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					
3.85	-30	-10.26	-0.014502	Within authorized band for Band 12	Pass
	-20	-9.38	-0.013258		
	-10	-8.11	-0.011463		
	0	-10.94	-0.015463		
	10	-13.15	-0.018587		
	20	-9.26	-0.013088		
	30	-8.23	-0.011633		
	40	-12.67	-0.017908		
	50	-7.00	-0.009894		
16QAM					
3.85	-30	-8.31	-0.011746	Within authorized band for Band 12	Pass
	-20	-4.29	-0.006064		
	-10	-10.59	-0.014968		
	0	-7.47	-0.010558		
	10	-9.74	-0.013767		
	20	-11.36	-0.016057		
	30	-8.27	-0.011689		
	40	-11.73	-0.016580		
	50	-7.35	-0.010389		
64QAM					
3.85	-30	-13.25	-0.018728	Within authorized band for Band 12	Pass
	-20	-11.17	-0.015788		
	-10	-6.94	-0.009809		
	0	-3.88	-0.005484		
	10	-10.77	-0.015223		
	20	-7.15	-0.010106		
	30	-13.29	-0.018784		
	40	-10.07	-0.014233		
	50	-9.13	-0.012905		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-12.25	-0.017314	Within authorized band for Band 12	Pass
	3.85	-6.11	-0.008636		
	4.35	-4.31	-0.006092		
16QAM					
25	3.40	-10.77	-0.015223	Within authorized band for Band 12	Pass
	3.85	-10.37	-0.014657		
	4.35	-10.29	-0.014544		
64QAM					
25	3.40	-10.70	-0.015124	Within authorized band for Band 12	Pass
	3.85	5.81	0.008212		
	4.35	-9.06	-0.012806		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 13 part:

Reference Frequency: LTE Band 13(10MHz) Middle channel=23230 Frequency=782.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-9.84	-0.012583	Within authorized band for Band 13	Pass
	-20	-6.25	-0.007992		
	-10	-7.90	-0.010102		
	0	-9.38	-0.011995		
	10	-10.47	-0.013389		
	20	-13.48	-0.017238		
	30	-10.83	-0.013849		
	40	-11.57	-0.014795		
	50	-15.32	-0.019591		
16QAM					
3.85	-30	-11.66	-0.014910	Within authorized band for Band 13	Pass
	-20	-8.33	-0.010652		
	-10	-19.13	-0.024463		
	0	-12.07	-0.015435		
	10	-11.16	-0.014271		
	20	-8.68	-0.011100		
	30	-9.46	-0.012097		
	40	-3.28	-0.004194		
	50	-2.99	-0.003824		
64QAM					
3.85	-30	-12.49	-0.015972	Within authorized band for Band 13	Pass
	-20	-5.42	-0.006931		
	-10	-7.01	-0.008964		
	0	-9.41	-0.012033		
	10	-11.01	-0.014079		
	20	-6.42	-0.008210		
	30	-6.94	-0.008875		
	40	-6.82	-0.008721		
	50	-10.44	-0.013350		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-5.26	-0.006726	Within authorized band for Band 13	Pass
	3.85	-12.57	-0.016074		
	4.35	-6.67	-0.008529		
16QAM					
25	3.40	-13.96	-0.017852	Within authorized band for Band 13	Pass
	3.85	-16.97	-0.021701		
	4.35	-16.32	-0.020870		
64QAM					
25	3.40	-5.82	-0.007442	Within authorized band for Band 13	Pass
	3.85	-9.54	-0.012199		
	4.35	-5.32	-0.006803		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40620 Frequency=2593.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-10.57	-0.004076	Within authorized band for Band 41	Pass
	-20	-8.67	-0.003344		
	-10	-14.02	-0.005407		
	0	-10.67	-0.004115		
	10	-10.10	-0.003895		
	20	-11.30	-0.004358		
	30	-9.83	-0.003791		
	40	-7.07	-0.002727		
	50	-10.91	-0.004207		
16QAM					
3.85	-30	-9.46	-0.003648	Within authorized band for Band 41	Pass
	-20	-8.53	-0.003290		
	-10	-6.92	-0.002669		
	0	-13.55	-0.005226		
	10	-5.94	-0.002291		
	20	-12.39	-0.004778		
	30	-6.48	-0.002499		
	40	-9.31	-0.003590		
	50	-9.01	-0.003475		
64QAM					
3.85	-30	-6.47	-0.002495	Within authorized band for Band 41	Pass
	-20	-9.41	-0.003629		
	-10	-12.97	-0.005002		
	0	-9.93	-0.003830		
	10	-9.38	-0.003617		
	20	-9.76	-0.003764		
	30	-11.57	-0.004462		
	40	-5.69	-0.002194		
	50	-7.93	-0.003058		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-6.67	-0.002572	Within authorized band for Band 41	Pass
	3.85	-10.37	-0.003999		
	4.35	-12.45	-0.004801		
16QAM					
25	3.40	-11.53	-0.004447	Within authorized band for Band41	Pass
	3.85	-7.88	-0.003039		
	4.35	-5.22	-0.002013		
64QAM					
25	3.40	-10.26	-0.003957	Within authorized band for Band41	Pass
	3.85	-8.28	-0.003193		
	4.35	-9.73	-0.003752		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this 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					
3.85	-30	8.05	0.004613	Within authorized band for Band 66	Pass
	-20	-10.99	-0.006298		
	-10	-11.13	-0.006378		
	0	-2.86	-0.001639		
	10	8.43	0.004831		
	20	-10.36	-0.005937		
	30	6.04	0.003461		
	40	10.10	0.005788		
	50	-4.53	-0.002596		
16QAM					
3.85	-30	3.71	0.002126	Within authorized band for Band 66	Pass
	-20	-12.80	-0.007335		
	-10	6.45	0.003696		
	0	-8.38	-0.004802		
	10	5.02	0.002877		
	20	-10.73	-0.006149		
	30	-6.98	-0.004000		
	40	-6.51	-0.003731		
	50	-2.99	-0.001713		
64QAM					
3.85	-30	-11.96	-0.006854	Within authorized band for Band 66	Pass
	-20	-2.80	-0.001605		
	-10	-10.76	-0.006166		
	0	10.64	0.006097		
	10	-6.04	-0.003461		
	20	-9.41	-0.005393		
	30	-4.21	-0.002413		
	40	-8.74	-0.005009		
	50	-13.10	-0.007507		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	5.05	0.002894	Within authorized band for Band 66	Pass
	3.85	-15.48	-0.008871		
	4.35	7.01	0.004017		
16QAM					
25	3.40	-7.01	-0.004017	Within authorized band for Band 66	Pass
	3.85	6.77	0.003880		
	4.35	-7.75	-0.004441		
64QAM					
25	3.40	-4.82	-0.002762	Within authorized band for Band 66	Pass
	3.85	-8.68	-0.004974		
	4.35	6.77	0.003880		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					