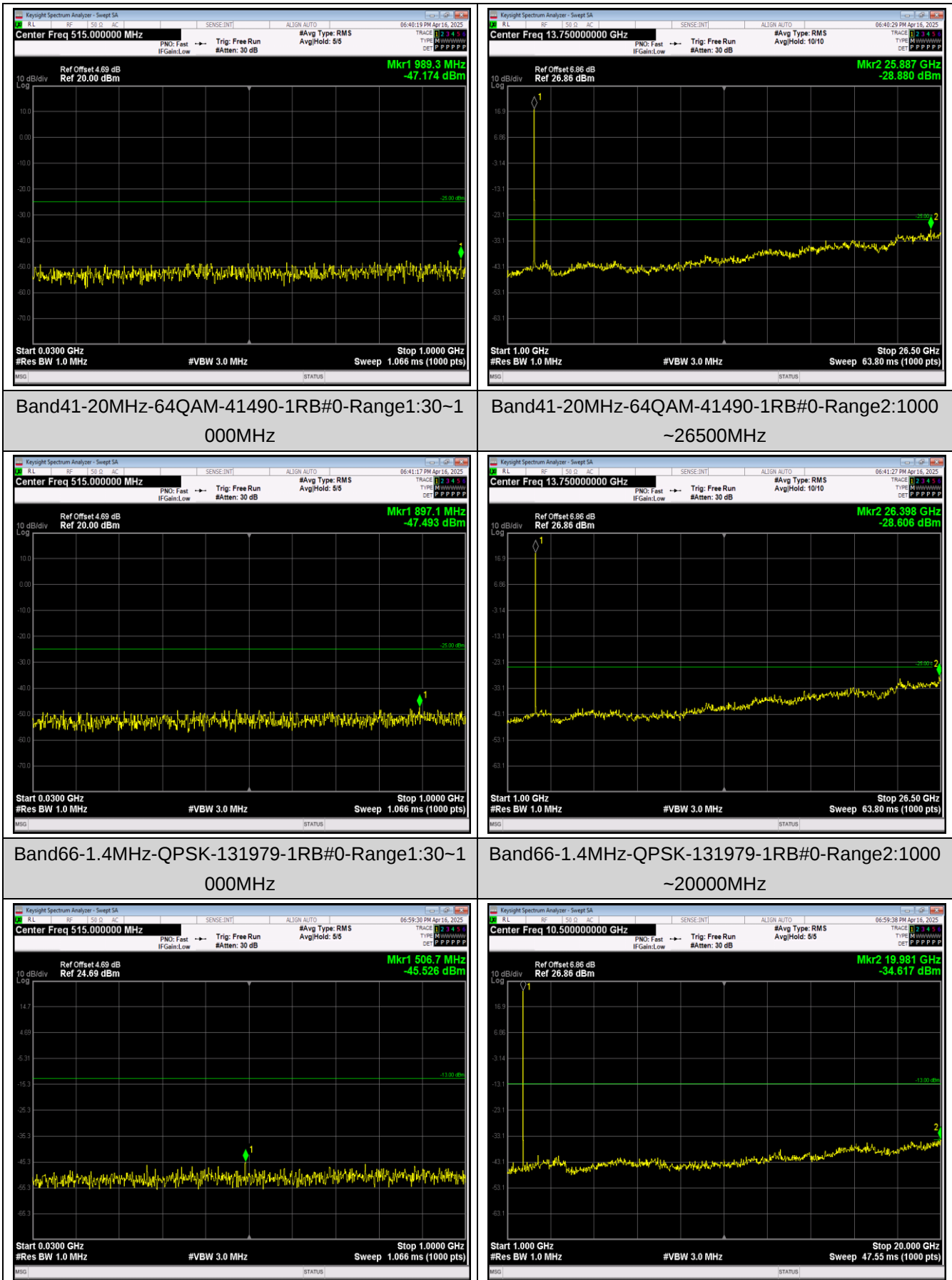
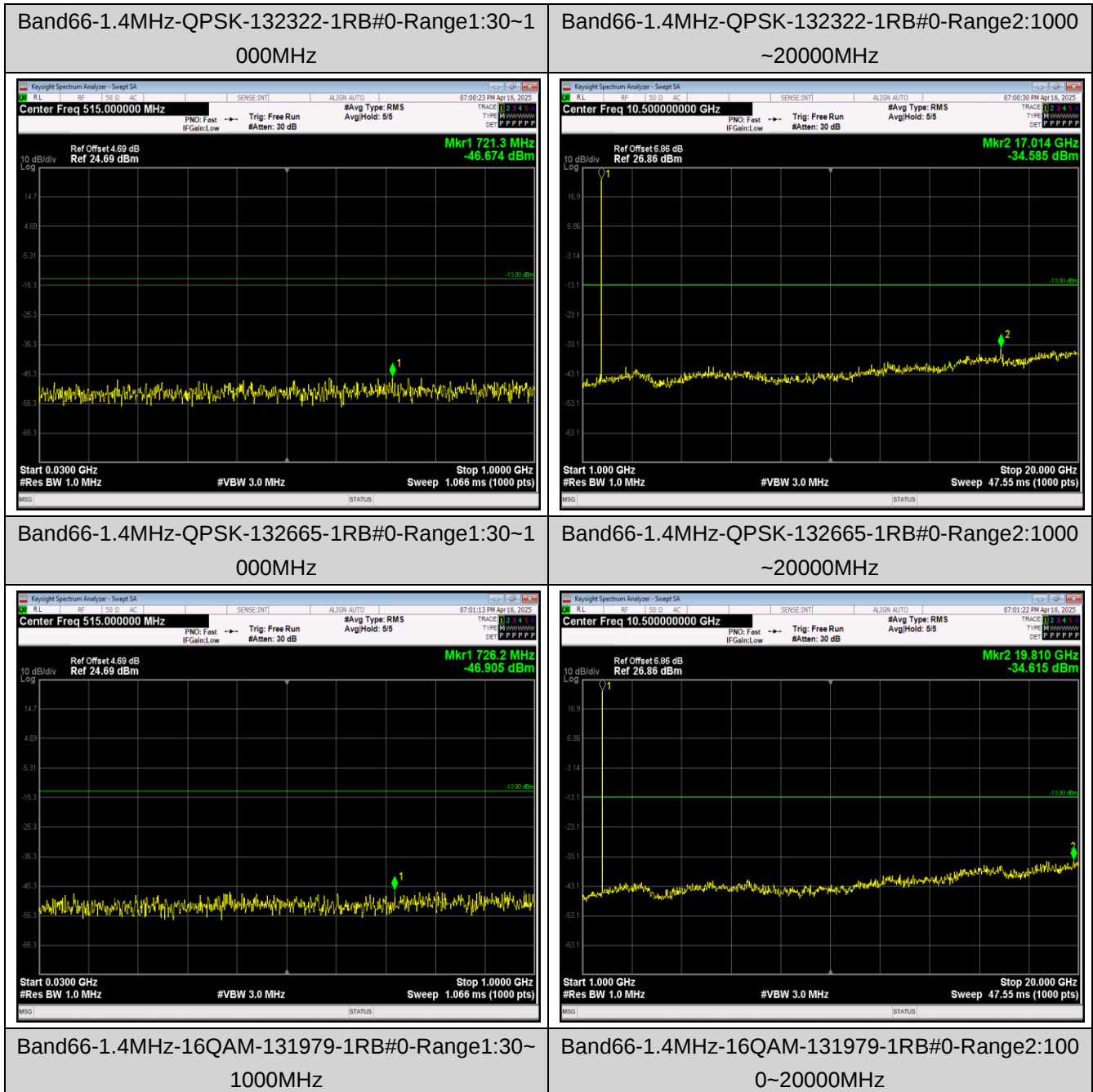
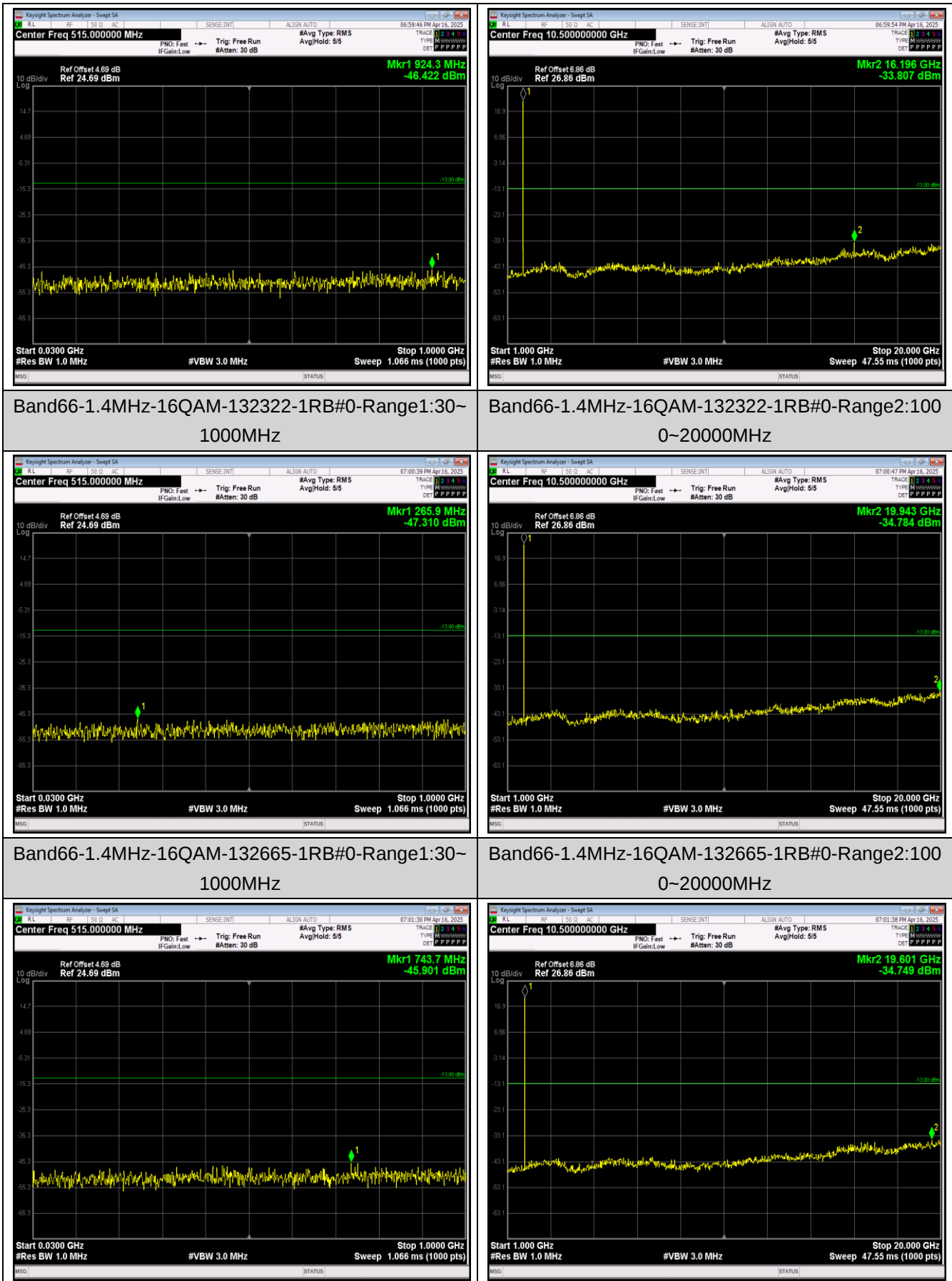
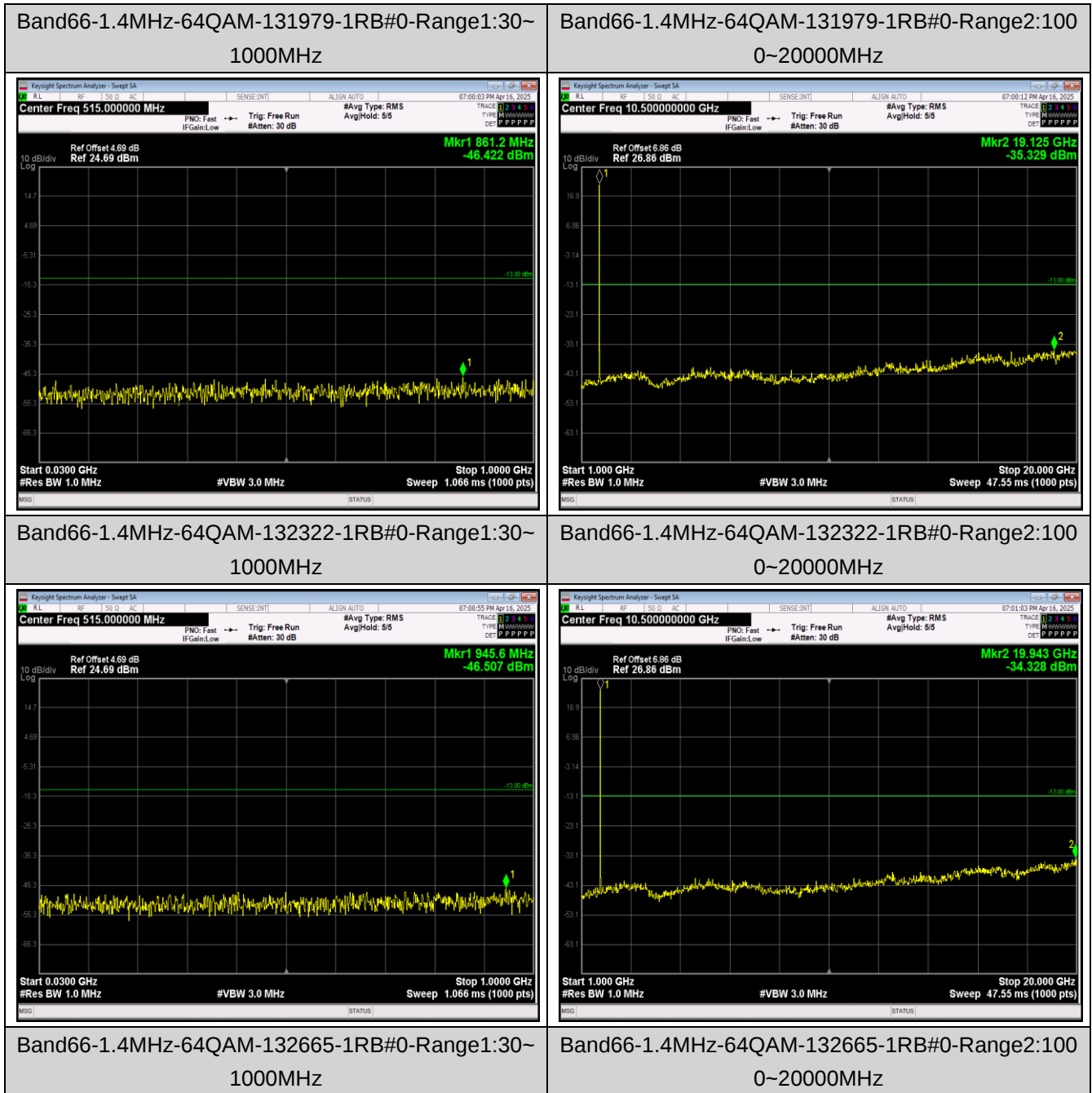
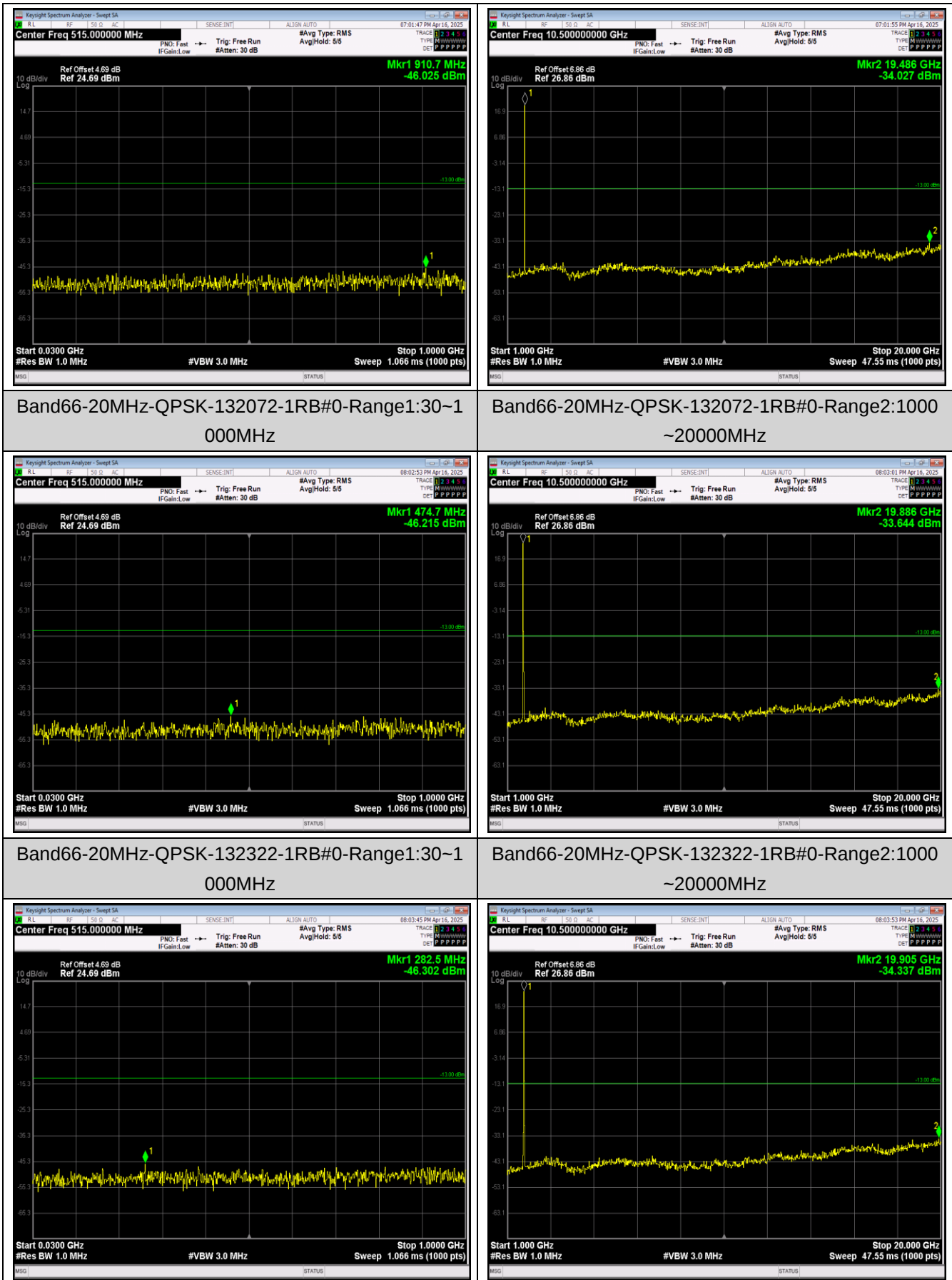




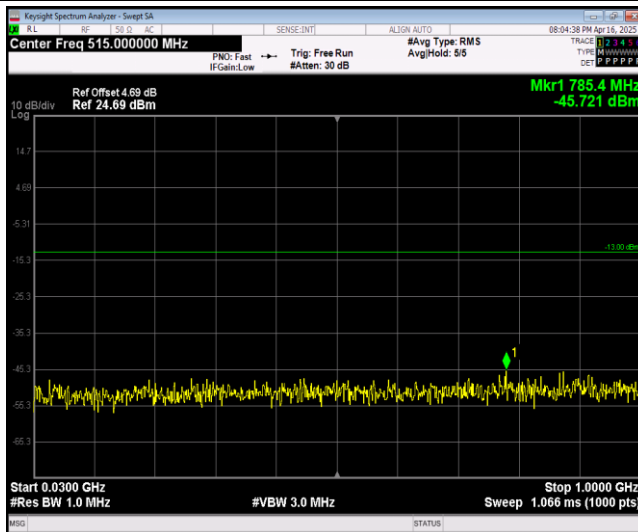




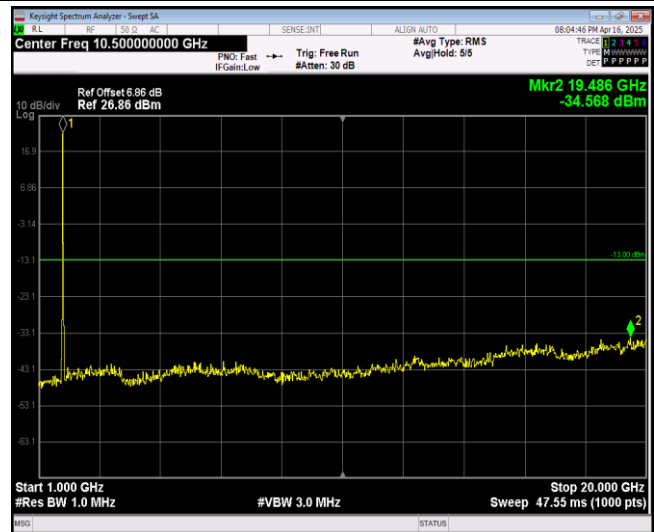




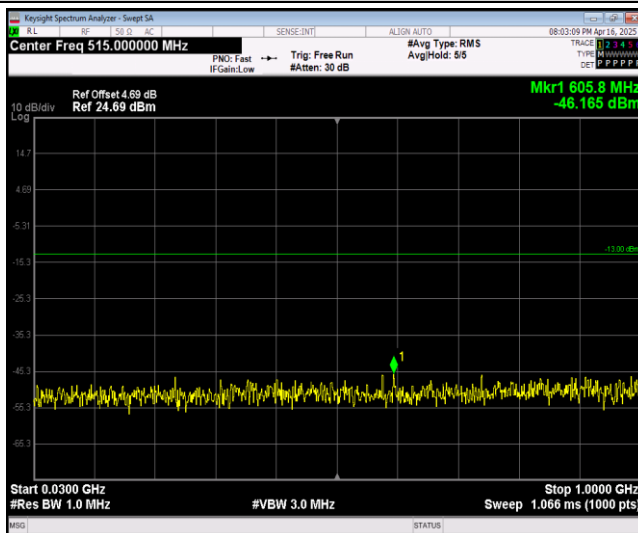
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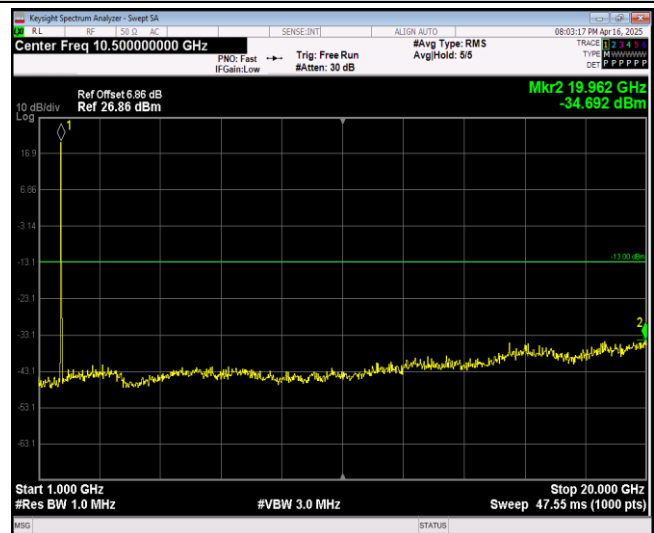
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~20000MHz



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



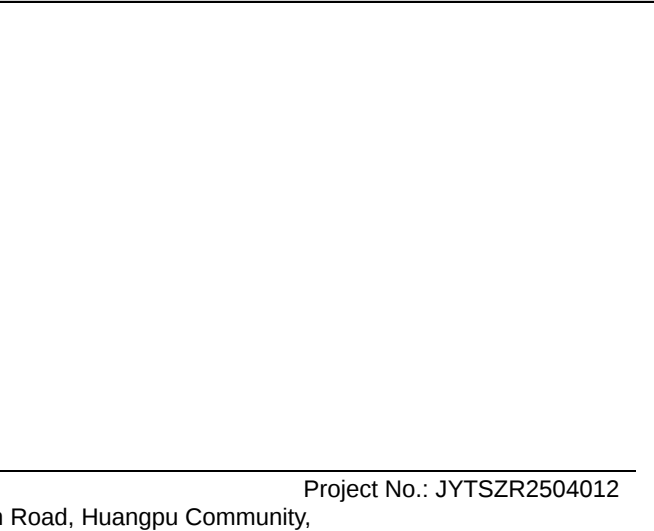
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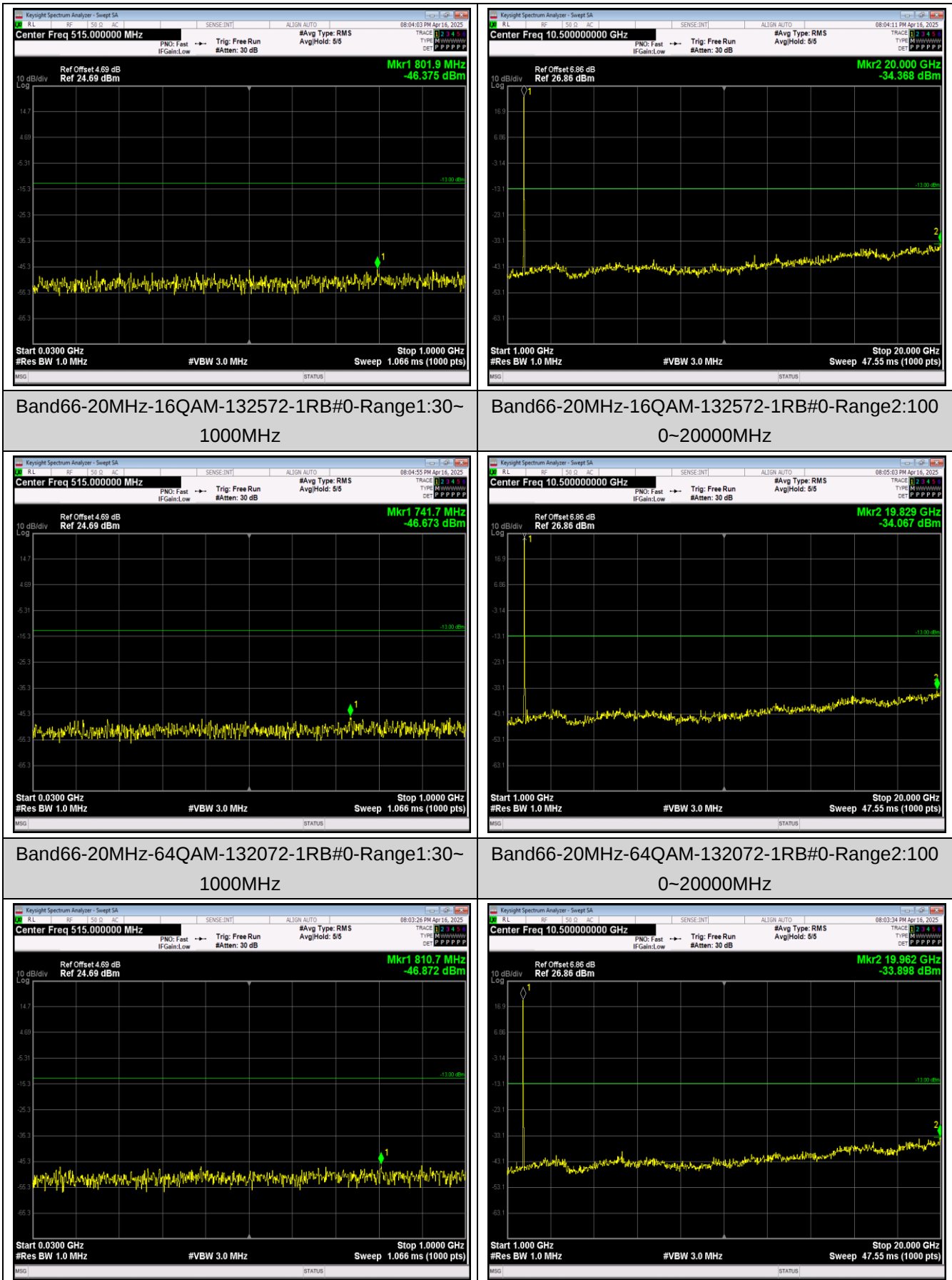


Band66-20MHz-16QAM-132322-1RB#0-Range1:30~
1000MHz

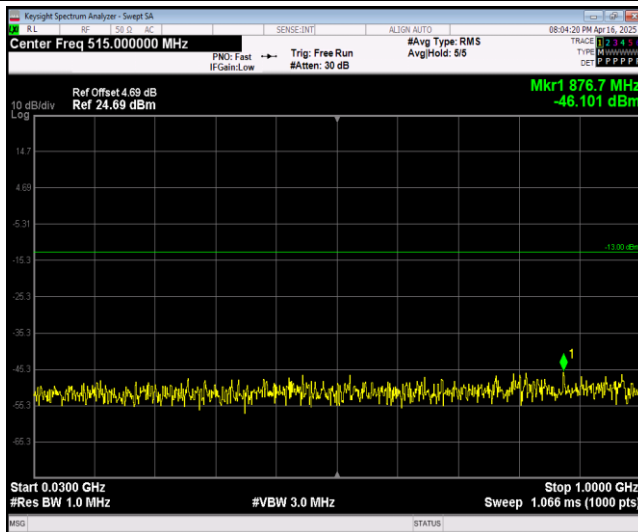


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0~20000MHz

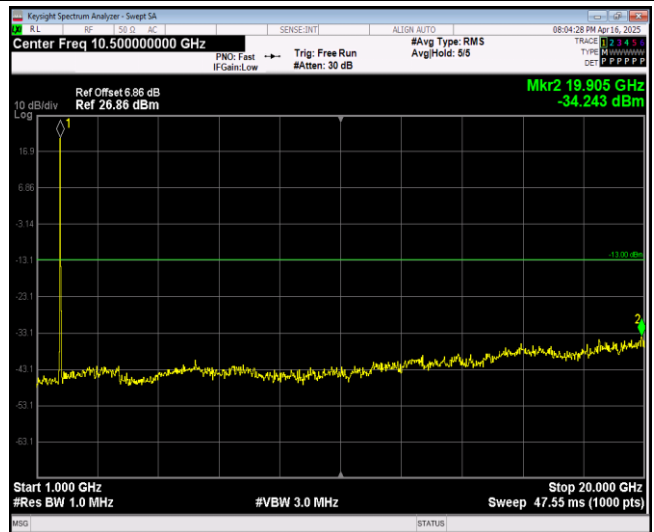




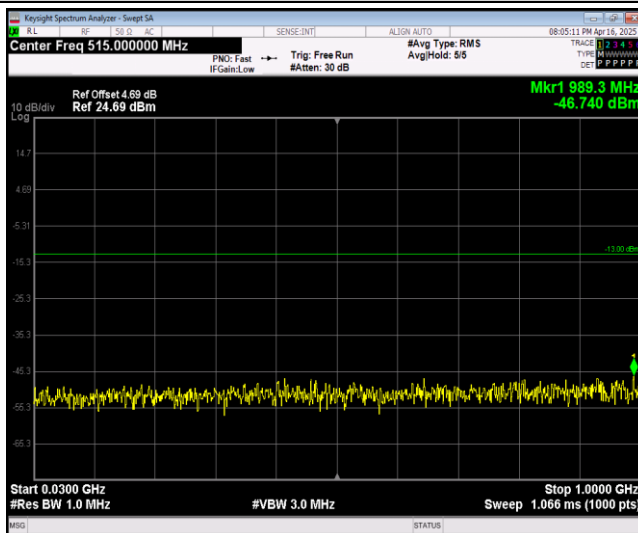
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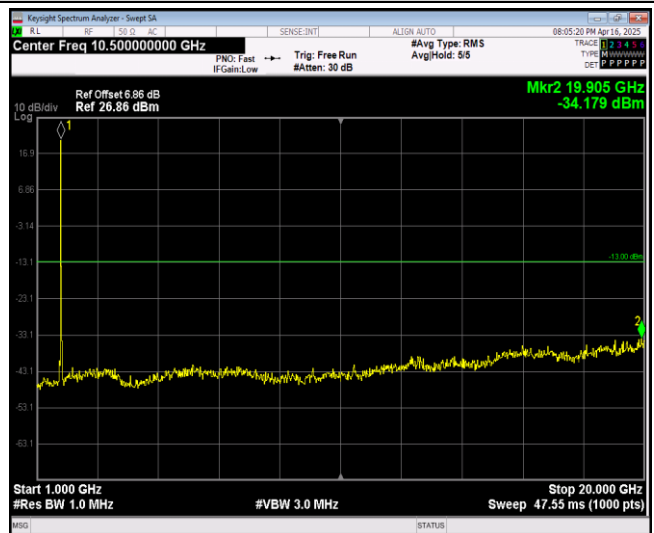
Band66-20MHz-64QAM-132322-1RB#0-Range2:100
0~20000MHz



Band66-20MHz-64QAM-132572-1RB#0-Range1:30~
1000MHz



Band66-20MHz-64QAM-132572-1RB#0-Range2:100
0~20000MHz



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					
3.92	-30	-5.44	-0.002894	Within authorized band for Band 2	Pass
	-20	7.67	0.004080		
	-10	-7.12	-0.003787		
	0	-7.07	-0.003761		
	10	-6.94	-0.003691		
	20	-5.65	-0.003005		
	30	-8.17	-0.004346		
	40	-5.09	-0.002707		
	50	-7.10	-0.003777		
16QAM					
3.92	-30	-4.94	-0.002628	Within authorized band for Band 2	Pass
	-20	-8.63	-0.004590		
	-10	5.21	0.002771		
	0	-6.14	-0.003266		
	10	-3.92	-0.002085		
	20	-11.72	-0.006234		
	30	9.33	0.004963		
	40	8.15	0.004335		
	50	4.62	0.002457		
64QAM					
3.92	-30	-5.88	-0.003128	Within authorized band for Band 2	Pass
	-20	4.79	0.002548		
	-10	-7.24	-0.003851		
	0	-6.65	-0.003537		
	10	-7.98	-0.004245		
	20	5.04	0.002681		
	30	-6.47	-0.003441		
	40	5.55	0.002952		
	50	5.85	0.003112		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	5.82	0.003096	Within authorized band for Band 2	Pass
	3.92	-9.41	-0.005005		
	4.45	7.47	0.003973		
16QAM					
25	3.45	3.99	0.002122	Within authorized band for Band 2	Pass
	3.92	4.13	0.002197		
	4.45	-6.62	-0.003521		
64QAM					
25	3.45	-5.58	-0.002968	Within authorized band for Band 2	Pass
	3.92	-6.52	-0.003468		
	4.45	-9.74	-0.005181		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this 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					
3.92	-30	-2.78	-0.001605	Within authorized band for Band 4	Pass
	-20	3.39	0.001957		
	-10	-2.93	-0.001691		
	0	-4.26	-0.002459		
	10	-3.00	-0.001732		
	20	4.11	0.002372		
	30	-5.14	-0.002967		
	40	-5.74	-0.003313		
	50	5.54	0.003198		
16QAM					
3.92	-30	-3.55	-0.002049	Within authorized band for Band 4	Pass
	-20	-2.59	-0.001495		
	-10	-1.63	-0.000941		
	0	-3.12	-0.001801		
	10	-4.55	-0.002626		
	20	2.86	0.001651		
	30	-3.09	-0.001784		
	40	-4.59	-0.002649		
	50	-3.49	-0.002014		
64QAM					
3.92	-30	-6.49	-0.003746	Within authorized band for Band 4	Pass
	-20	3.10	0.001789		
	-10	3.39	0.001957		
	0	3.63	0.002095		
	10	5.56	0.003209		
	20	2.63	0.001518		
	30	-4.82	-0.002782		
	40	2.93	0.001691		
	50	-2.47	-0.001426		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.30	-0.001905	Within authorized band for Band 4	Pass
	3.92	-6.97	-0.004023		
	4.45	-5.25	-0.003030		
16QAM					
25	3.45	-4.02	-0.002320	Within authorized band for Band 4	Pass
	3.92	2.26	0.001304		
	4.45	-2.98	-0.001720		
64QAM					
25	3.45	-3.76	-0.002170	Within authorized band for Band 4	Pass
	3.92	-4.51	-0.002603		
	4.45	-3.06	-0.001766		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-3.22	-0.003849	±2.5	Pass
	-20	-4.68	-0.005595		
	-10	-3.96	-0.004734		
	0	-8.05	-0.009623		
	10	-8.50	-0.010161		
	20	-3.22	-0.003849		
	30	-4.66	-0.005571		
	40	-4.78	-0.005714		
	50	-2.85	-0.003407		
16QAM					
3.92	-30	-6.87	-0.008213	±2.5	Pass
	-20	-1.87	-0.002236		
	-10	-5.51	-0.006587		
	0	-3.46	-0.004136		
	10	-4.62	-0.005523		
	20	-6.07	-0.007256		
	30	-7.84	-0.009372		
	40	-6.64	-0.007938		
	50	-3.28	-0.003921		
64QAM					
3.92	-30	-5.24	-0.006264	±2.5	Pass
	-20	-4.19	-0.005009		
	-10	-7.81	-0.009337		
	0	-6.45	-0.007711		
	10	-4.71	-0.005631		
	20	-2.95	-0.003527		
	30	-6.32	-0.007555		
	40	-5.41	-0.006467		
	50	-5.88	-0.007029		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.31	-0.008739	±2.5	Pass
	3.92	-7.64	-0.009133		
	4.45	-4.59	-0.005487		
16QAM					
25	3.45	-4.23	-0.005057	±2.5	Pass
	3.92	-3.75	-0.004483		
	4.45	-2.23	-0.002666		
64QAM					
25	3.45	-6.57	-0.007854	±2.5	Pass
	3.92	-2.79	-0.003335		
	4.45	-3.48	-0.004160		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-8.05	-0.003176	Within authorized band for Band 7	Pass
	-20	-6.21	-0.002450		
	-10	-6.17	-0.002434		
	0	-6.59	-0.002600		
	10	-7.40	-0.002919		
	20	-10.70	-0.004221		
	30	-8.40	-0.003314		
	40	-10.31	-0.004067		
	50	-4.49	-0.001771		
16QAM					
3.92	-30	-10.51	-0.004146	Within authorized band for Band 7	Pass
	-20	-8.48	-0.003345		
	-10	-9.97	-0.003933		
	0	-7.55	-0.002978		
	10	-6.88	-0.002714		
	20	-13.06	-0.005152		
	30	-6.54	-0.002580		
	40	-7.17	-0.002828		
	50	-10.17	-0.004012		
64QAM					
3.92	-30	-10.17	-0.004012	Within authorized band for Band 7	Pass
	-20	-7.67	-0.003026		
	-10	-10.34	-0.004079		
	0	-9.10	-0.003590		
	10	-5.62	-0.002217		
	20	-6.02	-0.002375		
	30	-12.49	-0.004927		
	40	-6.09	-0.002402		
	50	-11.32	-0.004465		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.78	-0.002675	Within authorized band for Band 7	Pass
	3.92	-17.21	-0.006789		
	4.45	-5.14	-0.002028		
16QAM					
25	3.45	-7.47	-0.002947	Within authorized band for Band 7	Pass
	3.92	-8.73	-0.003444		
	4.45	-7.38	-0.002911		
64QAM					
25	3.45	-4.23	-0.001669	Within authorized band for Band 7	Pass
	3.92	-10.10	-0.003984		
	4.45	-11.26	-0.004442		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-1.92	-0.002714	Within authorized band for Band 12	Pass
	-20	-2.00	-0.002827		
	-10	-4.91	-0.006940		
	0	-2.83	-0.004000		
	10	-4.18	-0.005908		
	20	-3.63	-0.005131		
	30	-3.36	-0.004749		
	40	-7.28	-0.010290		
	50	-3.85	-0.005442		
16QAM					
3.92	-30	-3.89	-0.005498	Within authorized band for Band 12	Pass
	-20	-2.63	-0.003717		
	-10	-6.28	-0.008876		
	0	-1.80	-0.002544		
	10	-3.82	-0.005399		
	20	-7.04	-0.009951		
	30	-5.04	-0.007124		
	40	-4.12	-0.005823		
	50	-5.74	-0.008113		
64QAM					
3.92	-30	-2.19	-0.003095	Within authorized band for Band 12	Pass
	-20	-3.86	-0.005456		
	-10	2.26	0.003194		
	0	-4.53	-0.006403		
	10	-4.15	-0.005866		
	20	-4.69	-0.006629		
	30	-2.17	-0.003067		
	40	1.73	0.002445		
	50	-3.00	-0.004240		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-2.33	-0.003293	Within authorized band for Band 12	Pass
	3.92	-5.46	-0.007717		
	4.45	3.19	0.004509		
16QAM					
25	3.45	-3.10	-0.004382	Within authorized band for Band 12	Pass
	3.92	1.70	0.002403		
	4.45	-3.30	-0.004664		
64QAM					
25	3.45	-3.30	-0.004664	Within authorized band for Band 12	Pass
	3.92	-5.95	-0.008410		
	4.45	-4.19	-0.005922		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-2.13	-0.002724	Within authorized band for Band 13	Pass
	-20	-3.36	-0.004297		
	-10	-3.78	-0.004834		
	0	-4.15	-0.005307		
	10	-1.73	-0.002212		
	20	-6.09	-0.007788		
	30	-6.35	-0.008120		
	40	-3.68	-0.004706		
	50	-3.69	-0.004719		
16QAM					
3.92	-30	-4.56	-0.005831	Within authorized band for Band 13	Pass
	-20	-3.10	-0.003964		
	-10	-4.05	-0.005179		
	0	-4.68	-0.005985		
	10	-3.06	-0.003913		
	20	-3.65	-0.004668		
	30	-5.06	-0.006471		
	40	-3.15	-0.004028		
	50	-6.28	-0.008031		
64QAM					
3.92	-30	-4.29	-0.005486	Within authorized band for Band 13	Pass
	-20	-4.56	-0.005831		
	-10	-3.75	-0.004795		
	0	-2.82	-0.003606		
	10	-3.13	-0.004003		
	20	2.57	0.003286		
	30	-4.75	-0.006074		
	40	-3.08	-0.003939		
	50	-4.49	-0.005742		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-1.87	-0.002391	Within authorized band for Band 13	Pass
	3.92	-2.45	-0.003133		
	4.45	-5.79	-0.007404		
16QAM					
25	3.45	-4.26	-0.005448	Within authorized band for Band 13	Pass
	3.92	-7.24	-0.009258		
	4.45	-4.33	-0.005537		
64QAM					
25	3.45	-3.82	-0.004885	Within authorized band for Band 13	Pass
	3.92	-5.79	-0.007404		
	4.45	-4.05	-0.005179		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-5.75	-0.008099	Within authorized band for Band 17	Pass
	-20	-5.21	-0.007338		
	-10	-3.15	-0.004437		
	0	-3.50	-0.004930		
	10	-2.69	-0.003789		
	20	-5.97	-0.008408		
	30	-6.49	-0.009141		
	40	-3.65	-0.005141		
	50	-5.41	-0.007620		
16QAM					
3.92	-30	-2.43	-0.003423	Within authorized band for Band 17	Pass
	-20	-5.22	-0.007352		
	-10	-5.34	-0.007521		
	0	-6.09	-0.008577		
	10	-4.02	-0.005662		
	20	-4.15	-0.005845		
	30	-4.42	-0.006225		
	40	-9.06	-0.012761		
	50	-4.89	-0.006887		
64QAM					
3.92	-30	-7.95	-0.011197	Within authorized band for Band 17	Pass
	-20	-3.22	-0.004535		
	-10	-4.79	-0.006746		
	0	-3.63	-0.005113		
	10	-2.80	-0.003944		
	20	-4.95	-0.006972		
	30	3.81	0.005366		
	40	-3.86	-0.005437		
	50	-4.32	-0.006085		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-4.72	-0.006648	Within authorized band for Band 17	Pass
	3.92	-6.22	-0.008761		
	4.45	-4.19	-0.005901		
16QAM					
25	3.45	-5.99	-0.008437	Within authorized band for Band 17	Pass
	3.92	-5.78	-0.008141		
	4.45	-6.02	-0.008479		
64QAM					
25	3.45	-10.01	-0.014099	Within authorized band for Band 17	Pass
	3.92	-4.02	-0.005662		
	4.45	-1.97	-0.002775		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 25 part:

Reference Frequency: LTE Band 25(10MHz) Middle channel=26365 Frequency=1882.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	4.65	0.002470	Within authorized band for Band 25	Pass
	-20	-4.91	-0.002608		
	-10	3.02	0.001604		
	0	-2.68	-0.001424		
	10	2.33	0.001238		
	20	2.55	0.001355		
	30	-4.36	-0.002316		
	40	4.03	0.002141		
	50	-8.17	-0.004340		
16QAM					
3.92	-30	-5.61	-0.002980	Within authorized band for Band 25	Pass
	-20	2.73	0.001450		
	-10	-3.35	-0.001780		
	0	-5.55	-0.002948		
	10	-3.79	-0.002013		
	20	-3.05	-0.001620		
	30	-5.28	-0.002805		
	40	2.86	0.001519		
	50	-4.09	-0.002173		
64QAM					
3.92	-30	-3.35	-0.001780	Within authorized band for Band 25	Pass
	-20	-6.11	-0.003246		
	-10	-4.21	-0.002236		
	0	-3.38	-0.001795		
	10	4.61	0.002449		
	20	-4.96	-0.002635		
	30	-5.59	-0.002969		
	40	-3.78	-0.002008		
	50	-6.29	-0.003341		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	4.65	0.002470	Within authorized band for Band 25	Pass
	3.92	-5.78	-0.003070		
	4.45	-6.69	-0.003554		
16QAM					
25	3.45	4.19	0.002226	Within authorized band for Band 25	Pass
	3.92	2.85	0.001514		
	4.45	-2.43	-0.001291		
64QAM					
25	3.45	-3.53	-0.001875	Within authorized band for Band 25	Pass
	3.92	5.05	0.002683		
	4.45	-3.85	-0.002045		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 26 part:

Reference Frequency: LTE Band 26(10MHz) Middle channel=26740 Frequency=819.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-1.56	-0.001905	Within authorized band for Band 26	Pass
	-20	-4.84	-0.005910		
	-10	-6.44	-0.007863		
	0	-3.40	-0.004151		
	10	-4.65	-0.005678		
	20	-4.12	-0.005031		
	30	-6.49	-0.007924		
	40	-6.32	-0.007717		
	50	-6.52	-0.007961		
16QAM					
3.92	-30	-3.83	-0.004676	Within authorized band for Band 26	Pass
	-20	-2.42	-0.002955		
	-10	-3.62	-0.004420		
	0	-5.02	-0.006129		
	10	-3.82	-0.004664		
	20	-6.62	-0.008083		
	30	-6.41	-0.007827		
	40	-4.19	-0.005116		
	50	-3.79	-0.004628		
64QAM					
3.92	-30	-4.02	-0.004908	Within authorized band for Band 26	Pass
	-20	-6.79	-0.008291		
	-10	-3.69	-0.004505		
	0	-5.35	-0.006532		
	10	-4.03	-0.004921		
	20	-3.58	-0.004371		
	30	-5.01	-0.006117		
	40	-3.22	-0.003932		
	50	-2.80	-0.003419		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.85	-0.007143	Within authorized band for Band 26	Pass
	3.92	-4.58	-0.005592		
	4.45	-6.02	-0.007350		
16QAM					
25	3.45	-2.88	-0.003516	Within authorized band for Band 26	Pass
	3.92	-5.48	-0.006691		
	4.45	-7.62	-0.009304		
64QAM					
25	3.45	-5.52	-0.006740	Within authorized band for Band 26	Pass
	3.92	-5.26	-0.006422		
	4.45	-6.21	-0.007582		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 26 part:

Reference Frequency: LTE Band 26(10MHz) Middle channel=26915 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-4.84	-0.005786	Within authorized band for Band 26	Pass
	-20	-5.58	-0.006671		
	-10	-5.16	-0.006169		
	0	-6.07	-0.007256		
	10	-5.68	-0.006790		
	20	-5.91	-0.007065		
	30	-5.54	-0.006623		
	40	-6.18	-0.007388		
	50	-8.83	-0.010556		
16QAM					
3.92	-30	-6.22	-0.007436	Within authorized band for Band 26	Pass
	-20	-4.94	-0.005906		
	-10	-7.97	-0.009528		
	0	-8.05	-0.009623		
	10	-6.14	-0.007340		
	20	-4.21	-0.005033		
	30	-5.36	-0.006408		
	40	-6.44	-0.007699		
	50	-6.24	-0.007460		
64QAM					
3.92	-30	-3.13	-0.003742	Within authorized band for Band 26	Pass
	-20	-7.28	-0.008703		
	-10	-3.78	-0.004519		
	0	-5.51	-0.006587		
	10	-2.92	-0.003491		
	20	-3.09	-0.003694		
	30	-7.14	-0.008536		
	40	-6.22	-0.007436		
	50	-3.36	-0.004017		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.77	-0.009289	Within authorized band for Band 26	Pass
	3.92	-4.65	-0.005559		
	4.45	-4.71	-0.005631		
16QAM					
25	3.45	-3.46	-0.004136	Within authorized band for Band 26	Pass
	3.92	-4.96	-0.005929		
	4.45	-2.50	-0.002989		
64QAM					
25	3.45	-2.50	-0.002989	Within authorized band for Band 26	Pass
	3.92	-6.88	-0.008225		
	4.45	-3.05	-0.003646		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 38 part:

Reference Frequency: LTE Band 38(10MHz) Middle channel=38000 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-9.96	-0.003838	Within authorized band for Band 38	Pass
	-20	-7.04	-0.002713		
	-10	13.98	0.005387		
	0	3.03	0.001168		
	10	15.08	0.005811		
	20	-11.23	-0.004328		
	30	-8.03	-0.003094		
	40	-5.55	-0.002139		
	50	9.28	0.003576		
16QAM					
3.92	-30	-10.89	-0.004197	Within authorized band for Band 38	Pass
	-20	-6.81	-0.002624		
	-10	5.19	0.002000		
	0	7.71	0.002971		
	10	-8.17	-0.003148		
	20	-6.94	-0.002674		
	30	5.25	0.002023		
	40	-6.11	-0.002355		
	50	-4.98	-0.001919		
64QAM					
3.92	-30	3.32	0.001279	Within authorized band for Band 38	Pass
	-20	-8.68	-0.003345		
	-10	7.12	0.002744		
	0	-6.37	-0.002455		
	10	-5.79	-0.002231		
	20	-6.62	-0.002551		
	30	-5.58	-0.002150		
	40	-4.39	-0.001692		
	50	-4.72	-0.001819		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-10.57	-0.004073	Within authorized band for Band 38	Pass
	3.92	8.64	0.003329		
	4.45	-5.51	-0.002123		
16QAM					
25	3.45	8.07	0.003110	Within authorized band for Band 38	Pass
	3.92	-7.20	-0.002775		
	4.45	-8.10	-0.003121		
64QAM					
25	3.45	-10.57	-0.004073	Within authorized band for Band 38	Pass
	3.92	-6.14	-0.002366		
	4.45	-4.46	-0.001719		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-6.32	-0.002437	Within authorized band for Band 41	Pass
	-20	-7.31	-0.002819		
	-10	-3.29	-0.001269		
	0	-10.09	-0.003891		
	10	-5.44	-0.002098		
	20	-5.01	-0.001932		
	30	-8.67	-0.003344		
	40	6.87	0.002649		
	50	-9.83	-0.003791		
16QAM					
3.92	-30	7.32	0.002823	Within authorized band for Band 41	Pass
	-20	-6.54	-0.002522		
	-10	3.60	0.001388		
	0	-1.67	-0.000644		
	10	-6.61	-0.002549		
	20	-6.49	-0.002503		
	30	-5.97	-0.002302		
	40	-5.54	-0.002137		
	50	3.53	0.001361		
64QAM					
3.92	-30	-5.88	-0.002268	Within authorized band for Band 41	Pass
	-20	-7.82	-0.003016		
	-10	3.91	0.001508		
	0	8.51	0.003282		
	10	-3.99	-0.001539		
	20	-4.11	-0.001585		
	30	-3.62	-0.001396		
	40	-5.72	-0.002206		
	50	-3.00	-0.001157		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.00	-0.003471	Within authorized band for Band 41	Pass
	3.92	-6.44	-0.002484		
	4.45	3.35	0.001292		
16QAM					
25	3.45	-3.30	-0.001273	Within authorized band for Band41	Pass
	3.92	8.48	0.003270		
	4.45	-7.34	-0.002831		
64QAM					
25	3.45	3.95	0.001523	Within authorized band for Band41	Pass
	3.92	-5.32	-0.002052		
	4.45	-10.81	-0.004169		
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					
3.92	-30	2.56	0.001467	Within authorized band for Band 66	Pass
	-20	-4.55	-0.002607		
	-10	-5.35	-0.003066		
	0	-3.45	-0.001977		
	10	-7.85	-0.004499		
	20	-6.81	-0.003903		
	30	-5.19	-0.002974		
	40	-5.32	-0.003049		
	50	-4.69	-0.002688		
16QAM					
3.92	-30	6.07	0.003479	Within authorized band for Band 66	Pass
	-20	8.65	0.004957		
	-10	4.43	0.002539		
	0	5.92	0.003393		
	10	-5.55	-0.003181		
	20	8.11	0.004648		
	30	8.25	0.004728		
	40	5.81	0.003330		
	50	3.71	0.002126		
64QAM					
3.92	-30	7.18	0.004115	Within authorized band for Band 66	Pass
	-20	5.36	0.003072		
	-10	-5.21	-0.002986		
	0	5.82	0.003335		
	10	5.34	0.003060		
	20	2.99	0.001713		
	30	-2.73	-0.001564		
	40	-8.61	-0.004934		
	50	7.48	0.004287		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.21	-0.002986	Within authorized band for Band 66	Pass
	3.92	-4.75	-0.002722		
	4.45	-3.02	-0.001731		
16QAM					
25	3.45	7.70	0.004413	Within authorized band for Band 66	Pass
	3.92	-6.38	-0.003656		
	4.45	4.66	0.002670		
64QAM					
25	3.45	-6.37	-0.003650	Within authorized band for Band 66	Pass
	3.92	8.75	0.005014		
	4.45	2.25	0.001289		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS
Band25	20MHz	QPSK	26365	100RB#0	PASS	PASS
Band25	20MHz	16QAM	26365	100RB#0	PASS	PASS
Band25	20MHz	64QAM	26365	100RB#0	PASS	PASS
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS
Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS
Band26	15MHz	QPSK	26915	75RB#0	PASS	PASS
Band26	15MHz	16QAM	26915	75RB#0	PASS	PASS
Band26	15MHz	64QAM	26915	75RB#0	PASS	PASS
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS
Band66	20MHz	QPSK	132322	100RB#0	PASS	PASS

Band66	20MHz	16QAM	132322	100RB#0	PASS	PASS
Band66	20MHz	64QAM	132322	100RB#0	PASS	PASS

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

Test Graphs

