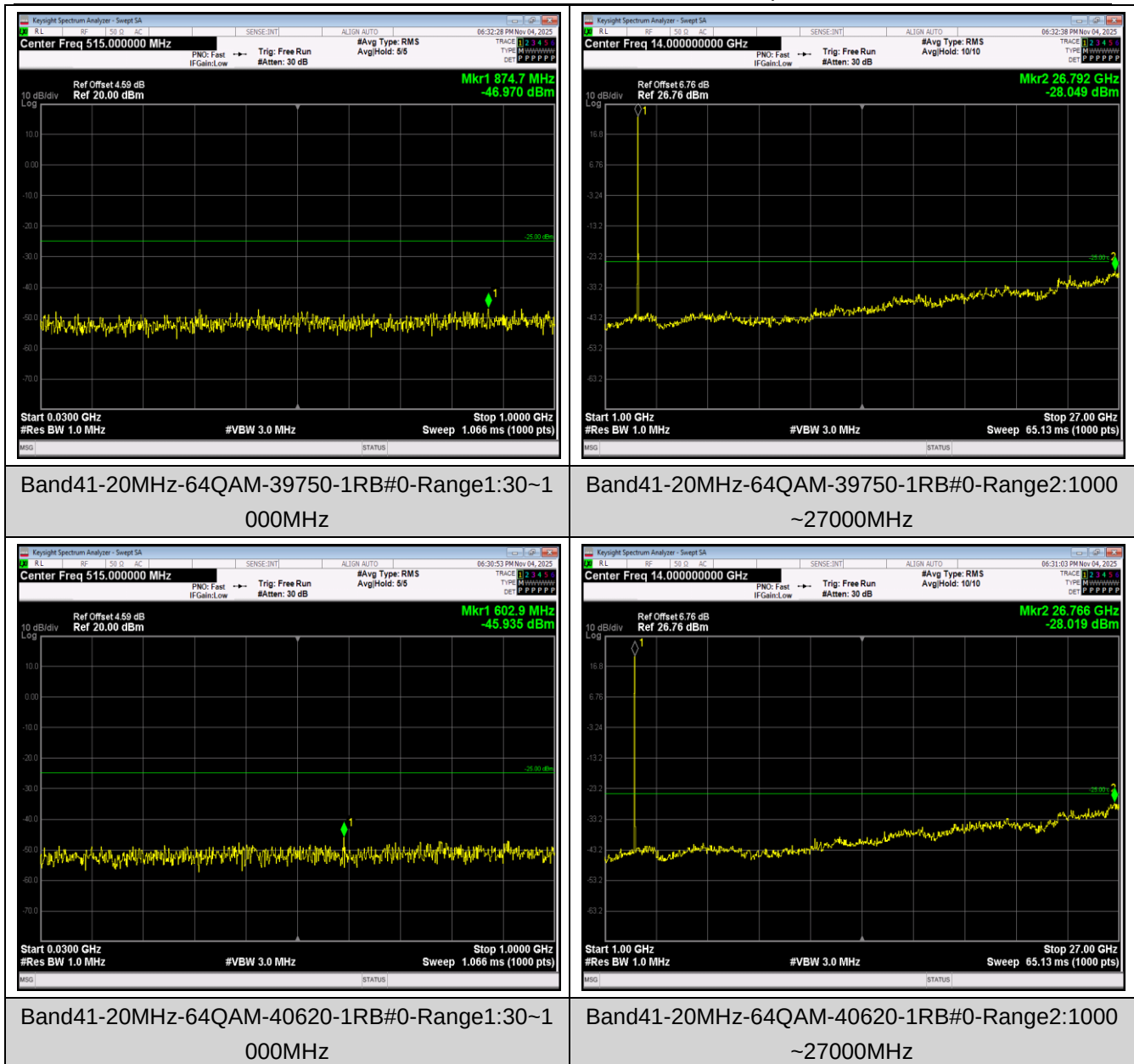
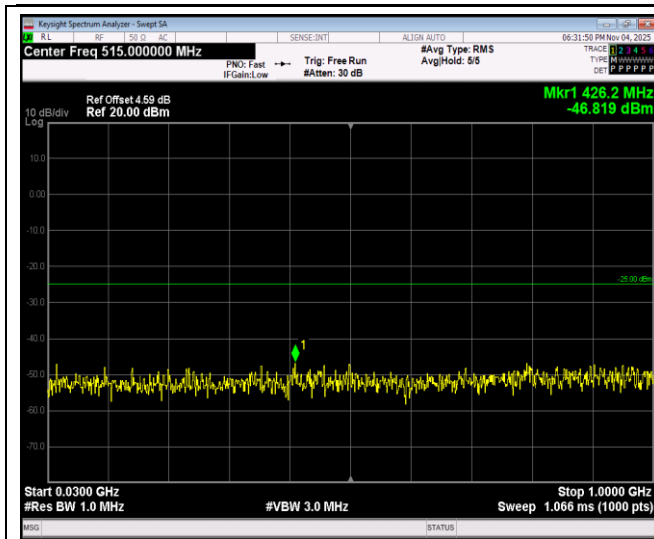


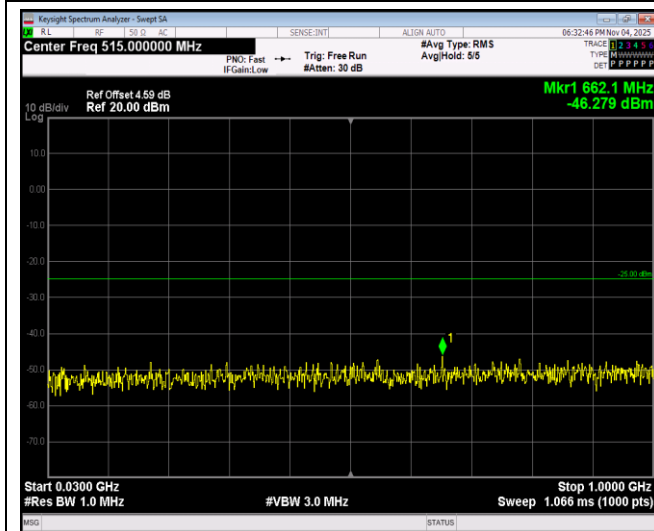




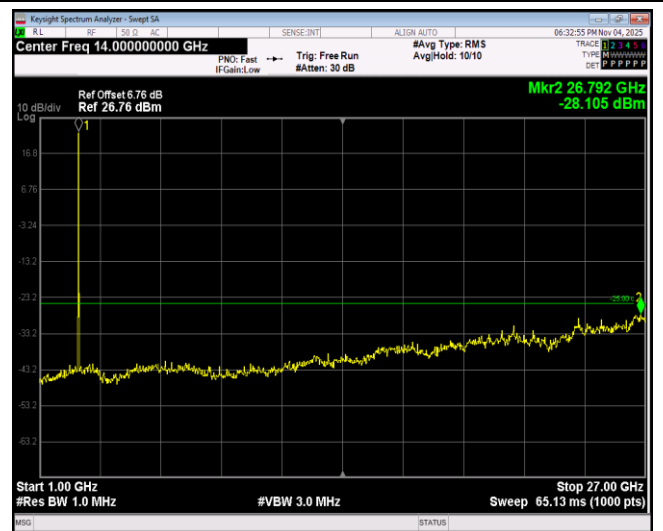
Band41-20MHz-64QAM-41490-1RB#0-Range1:30~1000MHz



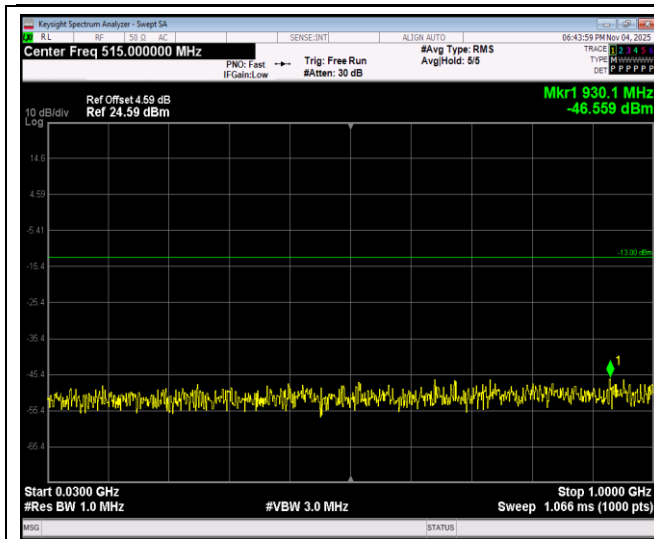
Band41-20MHz-64QAM-41490-1RB#0-Range2:1000~27000MHz



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



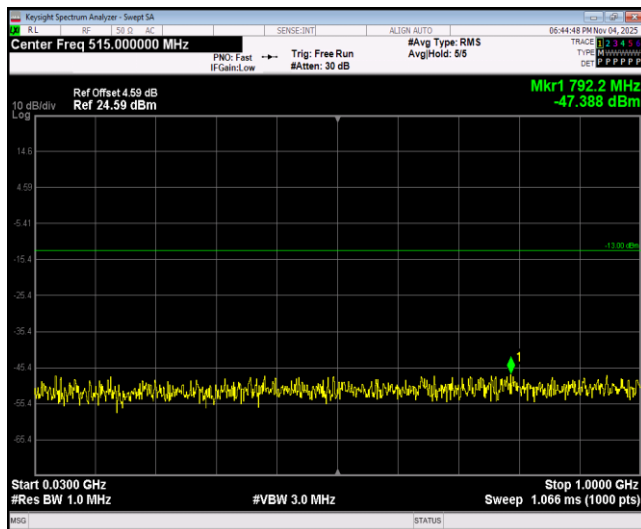
Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000~20000MHz



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



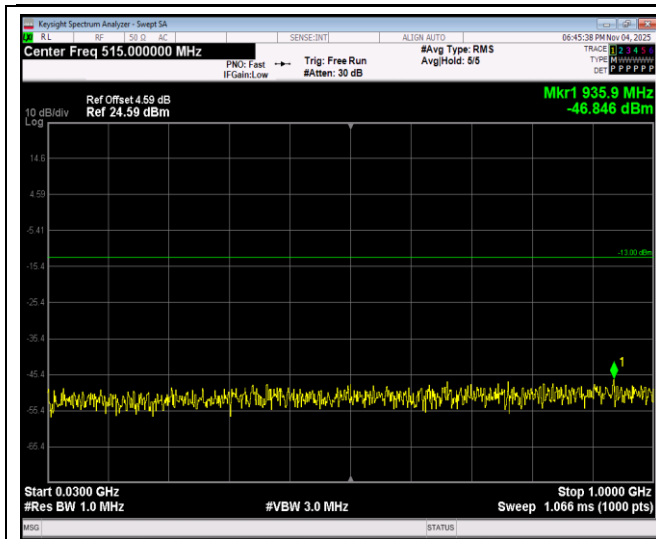
Band66-1.4MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz



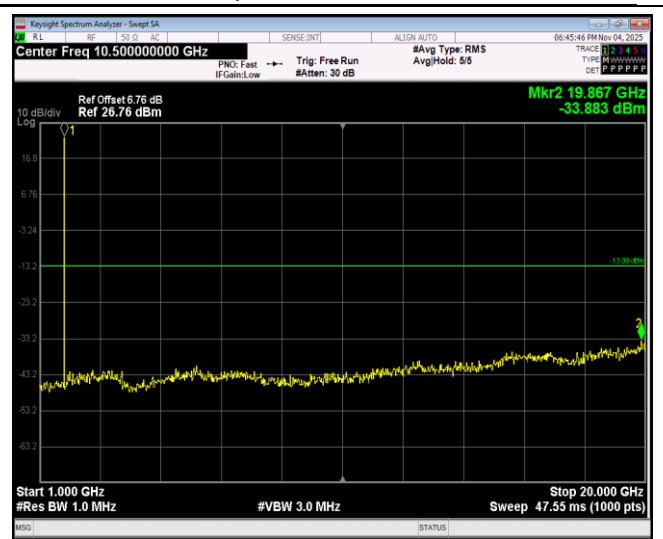
Band66-1.4MHz-QPSK-132665-1RB#0-Range1:30~1000MHz



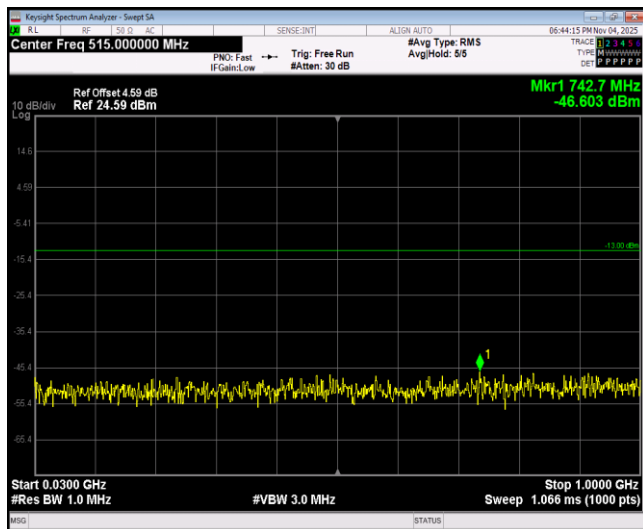
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Band66-1.4MHz-16QAM-131979-1RB#0-Range1:30~1000MHz



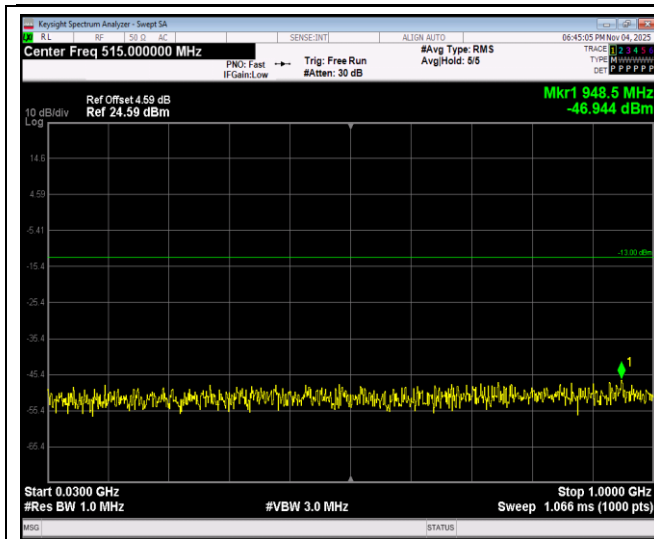
Band66-1.4MHz-16QAM-131979-1RB#0-Range2:1000~20000MHz



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



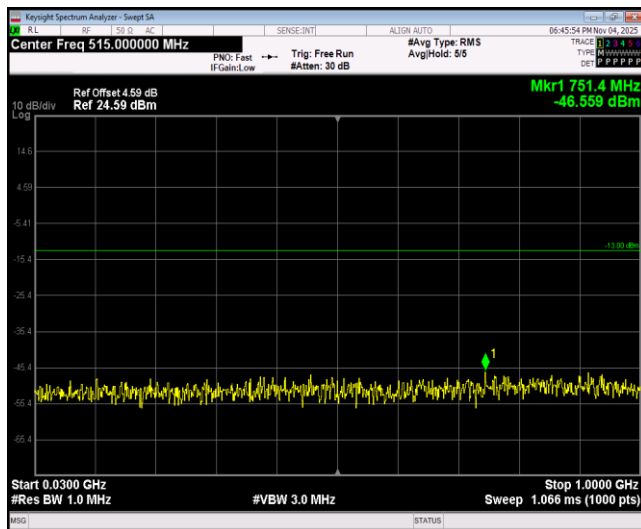
Band66-1.4MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz



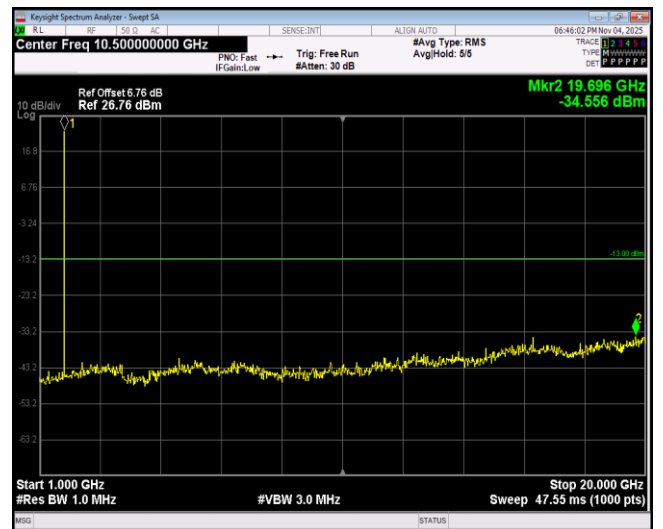
Band66-1.4MHz-16QAM-132665-1RB#0-Range1:30~1000MHz



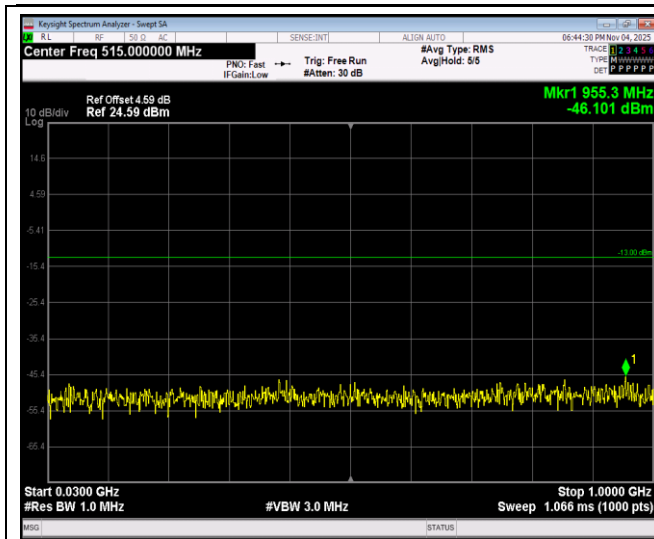
Band66-1.4MHz-16QAM-132665-1RB#0-Range2:1000~20000MHz



Band66-1.4MHz-64QAM-131979-1RB#0-Range1:30~1000MHz



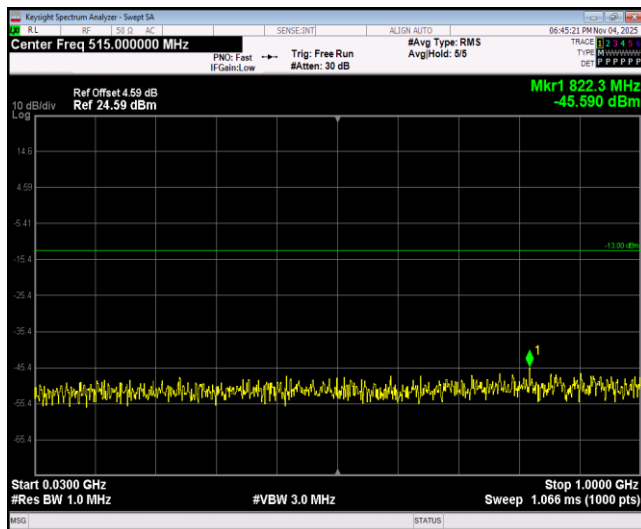
Band66-1.4MHz-64QAM-131979-1RB#0-Range2:1000~20000MHz



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



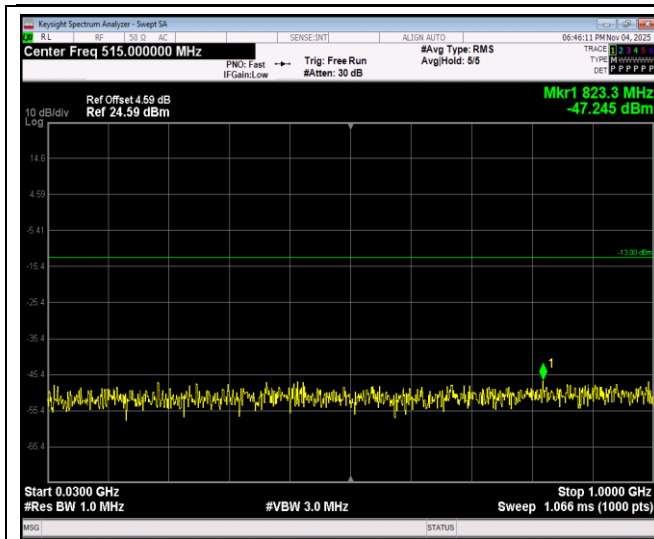
Band66-1.4MHz-64QAM-132322-1RB#0-Range2:1000~20000MHz



Band66-1.4MHz-64QAM-132665-1RB#0-Range1:30~1000MHz



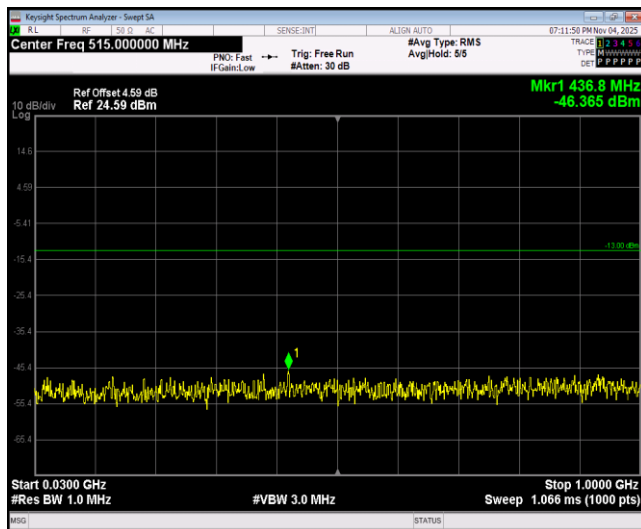
Band66-1.4MHz-64QAM-132665-1RB#0-Range2:1000~20000MHz



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



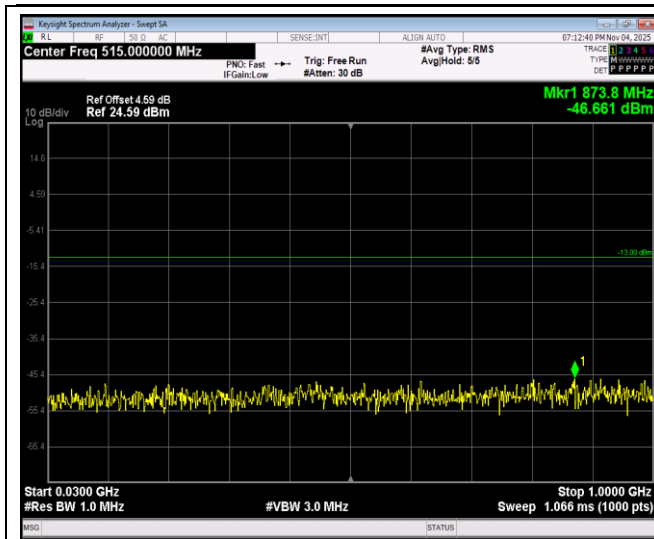
Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz



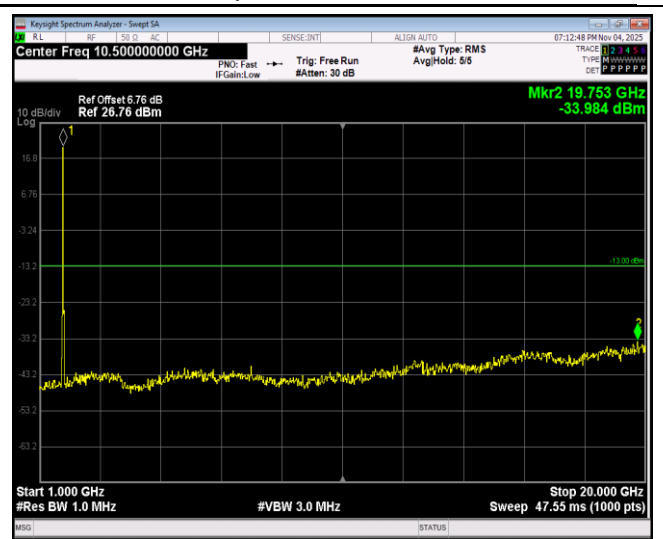
Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz



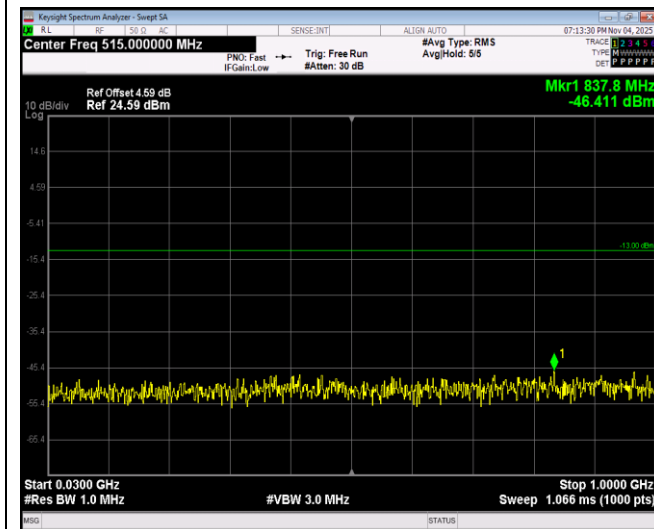
Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz



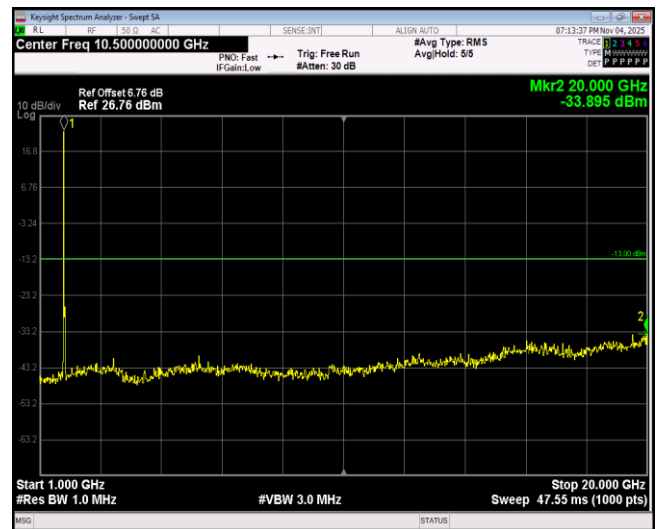
Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz



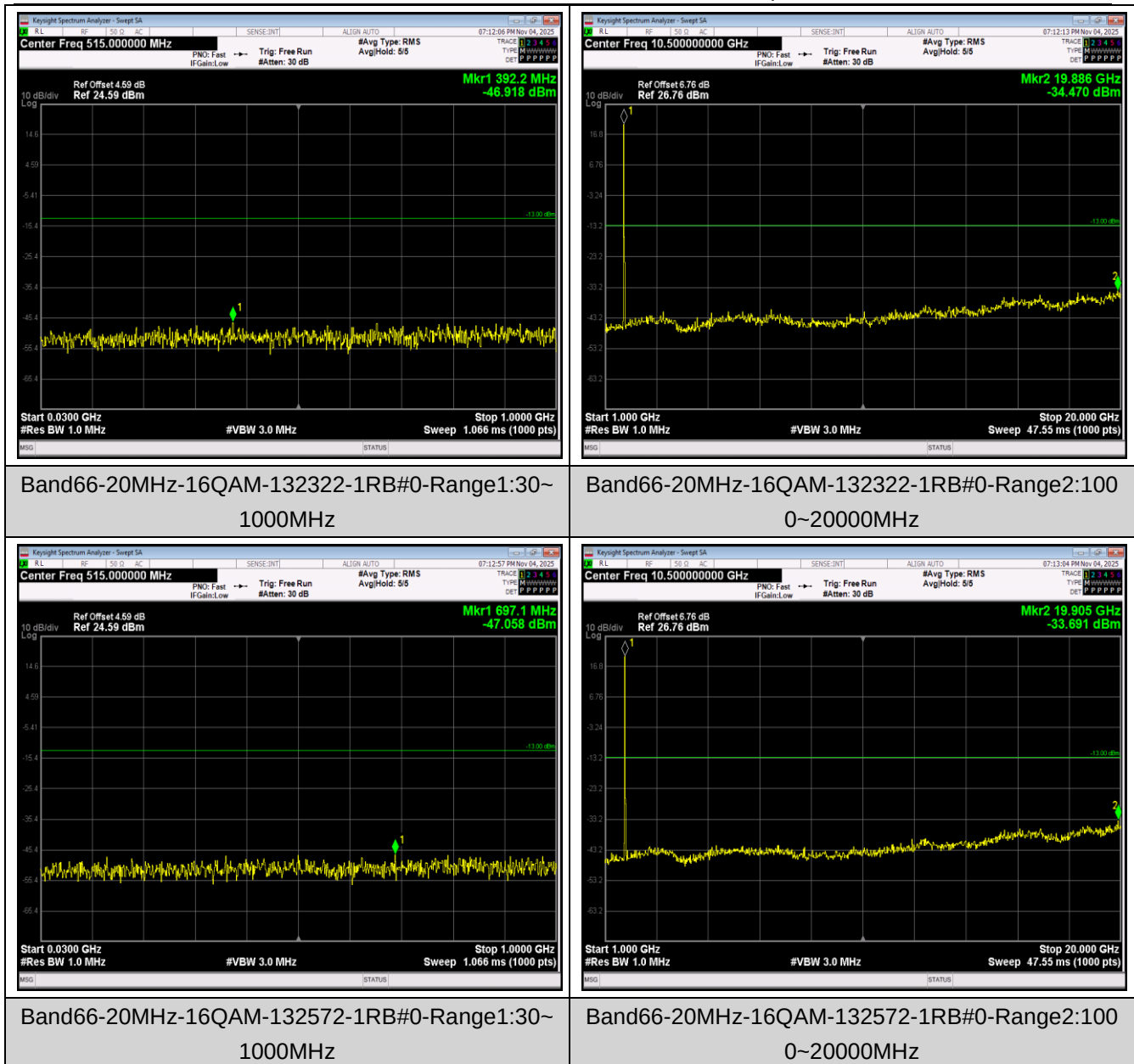
Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~20000MHz

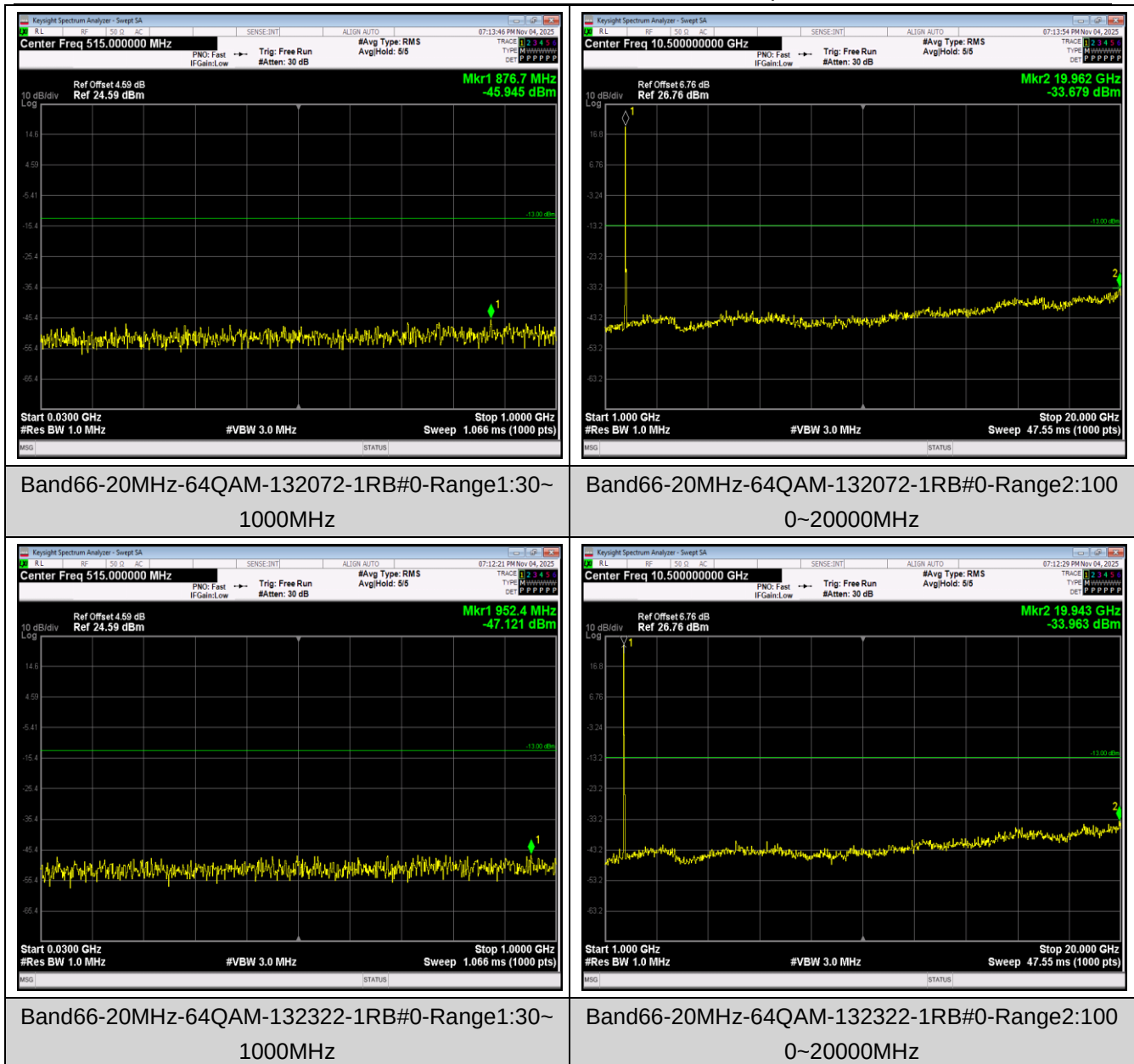


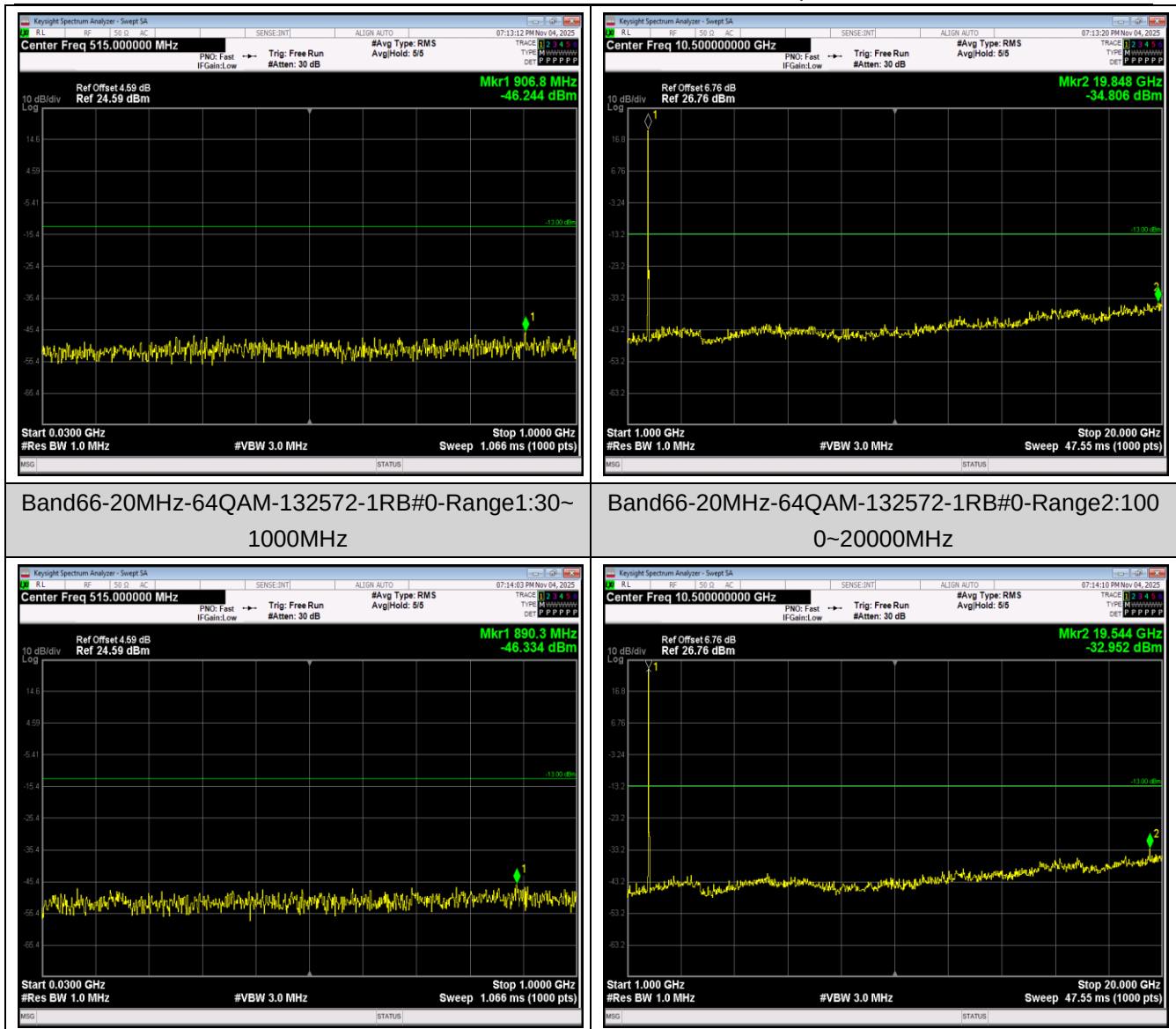
Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz



Band66-20MHz-16QAM-132072-1RB#0-Range2:100~20000MHz







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					
3.80	-30	-12.63	-0.006718	Within authorized band for Band 2	Pass
	-20	-11.76	-0.006255		
	-10	-13.98	-0.007436		
	0	-14.28	-0.007596		
	10	-12.37	-0.006580		
	20	-11.76	-0.006255		
	30	-15.25	-0.008112		
	40	-11.29	-0.006005		
	50	-14.00	-0.007447		
16QAM					
3.80	-30	-12.55	-0.006676	Within authorized band for Band 2	Pass
	-20	-12.79	-0.006803		
	-10	-11.10	-0.005904		
	0	-16.59	-0.008824		
	10	-6.44	-0.003426		
	20	-7.01	-0.003729		
	30	-16.25	-0.008644		
	40	-8.60	-0.004574		
	50	-8.07	-0.004293		
64QAM					
3.80	-30	3.26	0.001734	Within authorized band for Band 2	Pass
	-20	-8.48	-0.004511		
	-10	-9.07	-0.004824		
	0	-5.25	-0.002793		
	10	-12.13	-0.006452		
	20	-10.04	-0.005340		
	30	-8.30	-0.004415		
	40	-7.01	-0.003729		
	50	-10.13	-0.005388		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-12.69	-0.006750	Within authorized band for Band 2	Pass
	3.80	-9.68	-0.005149		
	4.35	-12.67	-0.006739		
16QAM					
25	3.45	-12.80	-0.006809	Within authorized band for Band 2	Pass
	3.80	-13.53	-0.007197		
	4.35	-12.40	-0.006596		
64QAM					
25	3.45	-9.66	-0.005138	Within authorized band for Band 2	Pass
	3.80	-7.01	-0.003729		
	4.35	-7.37	-0.003920		
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					
3.80	-30	-9.53	-0.005501	Within authorized band for Band 4	Pass
	-20	-8.27	-0.004773		
	-10	-5.92	-0.003417		
	0	-7.40	-0.004271		
	10	-8.54	-0.004929		
	20	-4.22	-0.002436		
	30	-7.67	-0.004427		
	40	-9.16	-0.005287		
	50	-8.58	-0.004952		
16QAM					
3.80	-30	-9.94	-0.005737	Within authorized band for Band 4	Pass
	-20	-8.81	-0.005085		
	-10	-9.17	-0.005293		
	0	-10.97	-0.006332		
	10	-8.64	-0.004987		
	20	-6.17	-0.003561		
	30	-6.38	-0.003683		
	40	-6.05	-0.003492		
	50	-6.49	-0.003746		
64QAM					
3.80	-30	-8.14	-0.004698	Within authorized band for Band 4	Pass
	-20	-6.41	-0.003700		
	-10	-5.98	-0.003452		
	0	-9.08	-0.005241		
	10	-5.89	-0.003400		
	20	-4.96	-0.002863		
	30	-3.36	-0.001939		
	40	-6.37	-0.003677		
	50	2.79	0.001610		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.64	-0.003255	Within authorized band for Band 4	Pass
	3.80	-9.76	-0.005633		
	4.35	-6.71	-0.003873		
16QAM					
25	3.45	-8.68	-0.005010	Within authorized band for Band 4	Pass
	3.80	-10.99	-0.006343		
	4.35	-8.47	-0.004889		
64QAM					
25	3.45	-7.17	-0.004139	Within authorized band for Band 4	Pass
	3.80	-7.81	-0.004508		
	4.35	-7.24	-0.004179		
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					
3.80	-30	-5.88	-0.007029	±2.5	Pass
	-20	-7.47	-0.008930		
	-10	-3.85	-0.004603		
	0	-3.50	-0.004184		
	10	-1.57	-0.001877		
	20	-2.70	-0.003228		
	30	-8.73	-0.010436		
	40	-8.67	-0.010365		
	50	-10.67	-0.012756		
16QAM					
3.80	-30	-4.21	-0.005033	±2.5	Pass
	-20	-7.62	-0.009109		
	-10	-9.41	-0.011249		
	0	-7.87	-0.009408		
	10	-4.91	-0.005870		
	20	-5.61	-0.006707		
	30	-2.40	-0.002869		
	40	2.29	0.002738		
	50	2.96	0.003539		
64QAM					
3.80	-30	-4.92	-0.005882	±2.5	Pass
	-20	-4.25	-0.005081		
	-10	-7.17	-0.008571		
	0	-7.48	-0.008942		
	10	-5.66	-0.006766		
	20	-7.77	-0.009289		
	30	-4.99	-0.005965		
	40	-6.32	-0.007555		
	50	-6.28	-0.007507		



Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.65	-0.006754	±2.5	Pass
	3.80	-6.49	-0.007759		
	4.35	-3.76	-0.004495		
16QAM					
25	3.45	-10.84	-0.012959	±2.5	Pass
	3.80	-10.16	-0.012146		
	4.35	-7.75	-0.009265		
64QAM					
25	3.45	-8.01	-0.009576	±2.5	Pass
	3.80	-11.49	-0.013736		
	4.35	-7.82	-0.009348		
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					
3.80	-30	3.42	0.001349	Within authorized band for Band 7	Pass
	-20	-6.91	-0.002726		
	-10	-8.53	-0.003365		
	0	-8.11	-0.003199		
	10	-4.81	-0.001897		
	20	-5.32	-0.002099		
	30	2.95	0.001164		
	40	3.68	0.001452		
	50	-5.39	-0.002126		
16QAM					
3.80	-30	-3.96	-0.001562	Within authorized band for Band 7	Pass
	-20	-6.95	-0.002742		
	-10	-5.12	-0.002020		
	0	-8.71	-0.003436		
	10	-5.01	-0.001976		
	20	-5.76	-0.002272		
	30	-5.98	-0.002359		
	40	-6.12	-0.002414		
	50	4.71	0.001858		
64QAM					
3.80	-30	4.06	0.001602	Within authorized band for Band 7	Pass
	-20	-1.95	-0.000769		
	-10	-9.51	-0.003751		
	0	-6.52	-0.002572		
	10	4.49	0.001771		
	20	4.95	0.001953		
	30	-7.40	-0.002919		
	40	-4.86	-0.001917		
	50	1.77	0.000698		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.07	-0.002394	Within authorized band for Band 7	Pass
	3.80	-3.86	-0.001523		
	4.35	3.29	0.001298		
16QAM					
25	3.45	-3.33	-0.001314	Within authorized band for Band 7	Pass
	3.80	-5.76	-0.002272		
	4.35	-1.92	-0.000757		
64QAM					
25	3.45	5.39	0.002126	Within authorized band for Band 7	Pass
	3.80	-6.17	-0.002434		
	4.35	-1.85	-0.000730		
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					
3.80	-30	-6.81	-0.009625	Within authorized band for Band 12	Pass
	-20	-2.33	-0.003293		
	-10	-7.25	-0.010247		
	0	-8.23	-0.011633		
	10	-7.84	-0.011081		
	20	-7.75	-0.010954		
	30	-8.35	-0.011802		
	40	-7.82	-0.011053		
	50	-3.82	-0.005399		
16QAM					
3.80	-30	-4.75	-0.006714	Within authorized band for Band 12	Pass
	-20	-4.76	-0.006728		
	-10	-6.28	-0.008876		
	0	1.46	0.002064		
	10	-9.96	-0.014078		
	20	-7.02	-0.009922		
	30	-6.92	-0.009781		
	40	-10.36	-0.014643		
	50	-8.07	-0.011406		
64QAM					
3.80	-30	-7.24	-0.010233	Within authorized band for Band 12	Pass
	-20	-3.86	-0.005456		
	-10	-3.79	-0.005357		
	0	-4.26	-0.006021		
	10	-4.92	-0.006954		
	20	-7.67	-0.010841		
	30	-9.67	-0.013668		
	40	-10.47	-0.014799		
	50	-13.16	-0.018601		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-8.74	-0.012353	Within authorized band for Band 12	Pass
	3.80	-5.99	-0.008466		
	4.35	-2.85	-0.004028		
16QAM					
25	3.45	-7.28	-0.010290	Within authorized band for Band 12	Pass
	3.80	-8.31	-0.011746		
	4.35	-4.86	-0.006869		
64QAM					
25	3.45	-8.35	-0.011802	Within authorized band for Band 12	Pass
	3.80	-5.49	-0.007760		
	4.35	-2.99	-0.004226		
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					
3.80	-30	-11.69	-0.014949	Within authorized band for Band 13	Pass
	-20	-11.77	-0.015051		
	-10	-8.75	-0.011189		
	0	-3.15	-0.004028		
	10	-11.94	-0.015269		
	20	-7.48	-0.009565		
	30	-11.56	-0.014783		
	40	-11.54	-0.014757		
	50	2.40	0.003069		
16QAM					
3.80	-30	-3.49	-0.004463	Within authorized band for Band 13	Pass
	-20	3.52	0.004501		
	-10	-2.40	-0.003069		
	0	-2.92	-0.003734		
	10	-9.07	-0.011598		
	20	-9.81	-0.012545		
	30	-11.10	-0.014194		
	40	-7.81	-0.009987		
	50	-11.52	-0.014731		
64QAM					
3.80	-30	-9.87	-0.012621	Within authorized band for Band 13	Pass
	-20	-7.05	-0.009015		
	-10	-10.37	-0.013261		
	0	-11.73	-0.015000		
	10	-12.26	-0.015678		
	20	-7.02	-0.008977		
	30	-7.47	-0.009552		
	40	-11.59	-0.014821		
	50	-13.49	-0.017251		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.67	-0.009808	Within authorized band for Band 13	Pass
	3.80	-8.78	-0.011228		
	4.35	-7.77	-0.009936		
16QAM					
25	3.45	-6.22	-0.007954	Within authorized band for Band 13	Pass
	3.80	-4.66	-0.005959		
	4.35	-5.14	-0.006573		
64QAM					
25	3.45	-9.34	-0.011944	Within authorized band for Band 13	Pass
	3.80	-13.35	-0.017072		
	4.35	-8.54	-0.010921		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-8.98	-0.012648	Within authorized band for Band 17	Pass
	-20	-7.14	-0.010056		
	-10	-7.18	-0.010113		
	0	-6.77	-0.009535		
	10	-7.41	-0.010437		
	20	-4.28	-0.006028		
	30	-3.71	-0.005225		
	40	-5.31	-0.007479		
	50	-5.68	-0.008000		
16QAM					
3.80	-30	-5.22	-0.007352	Within authorized band for Band 17	Pass
	-20	-9.31	-0.013113		
	-10	-6.31	-0.008887		
	0	-5.88	-0.008282		
	10	-7.64	-0.010761		
	20	-2.50	-0.003521		
	30	-3.26	-0.004592		
	40	-4.13	-0.005817		
	50	-9.71	-0.013676		
64QAM					
3.80	-30	-6.52	-0.009183	Within authorized band for Band 17	Pass
	-20	-7.48	-0.010535		
	-10	-5.16	-0.007268		
	0	-3.52	-0.004958		
	10	-3.73	-0.005254		
	20	4.58	0.006451		
	30	-6.98	-0.009831		
	40	-11.07	-0.015592		
	50	-11.26	-0.015859		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-12.63	-0.017789	Within authorized band for Band 17	Pass
	3.80	-3.30	-0.004648		
	4.35	-9.14	-0.012873		
16QAM					
25	3.45	-7.05	-0.009930	Within authorized band for Band 17	Pass
	3.80	-5.72	-0.008056		
	4.35	-2.32	-0.003268		
64QAM					
25	3.45	-8.71	-0.012268	Within authorized band for Band 17	Pass
	3.80	-9.37	-0.013197		
	4.35	-7.05	-0.009930		
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					
3.80	-30	-9.54	-0.005068	Within authorized band for Band 25	Pass
	-20	-11.60	-0.006162		
	-10	-13.19	-0.007007		
	0	-8.33	-0.004425		
	10	-18.50	-0.009827		
	20	-5.05	-0.002683		
	30	-13.06	-0.006938		
	40	-13.22	-0.007023		
	50	-6.52	-0.003463		
16QAM					
3.80	-30	-11.76	-0.006247	Within authorized band for Band 25	Pass
	-20	-9.40	-0.004993		
	-10	-7.52	-0.003995		
	0	-9.77	-0.005190		
	10	-6.21	-0.003299		
	20	-10.79	-0.005732		
	30	-8.37	-0.004446		
	40	-5.36	-0.002847		
	50	-6.97	-0.003703		
64QAM					
3.80	-30	-12.13	-0.006444	Within authorized band for Band 25	Pass
	-20	-10.40	-0.005525		
	-10	-9.31	-0.004946		
	0	-9.50	-0.005046		
	10	-17.18	-0.009126		
	20	-8.74	-0.004643		
	30	-12.06	-0.006406		
	40	-12.19	-0.006475		
	50	-11.86	-0.006300		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-11.57	-0.006146	Within authorized band for Band 25	Pass
	3.80	-13.18	-0.007001		
	4.35	-9.36	-0.004972		
16QAM					
25	3.45	-12.39	-0.006582	Within authorized band for Band 25	Pass
	3.80	-8.40	-0.004462		
	4.35	-16.37	-0.008696		
64QAM					
25	3.45	-11.74	-0.006236	Within authorized band for Band 25	Pass
	3.80	-7.10	-0.003772		
	4.35	-13.48	-0.007161		
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					
3.80	-30	-4.12	-0.005031	Within authorized band for Band 26	Pass
	-20	-4.43	-0.005409		
	-10	-4.33	-0.005287		
	0	-4.13	-0.005043		
	10	-4.45	-0.005433		
	20	-10.10	-0.012332		
	30	-8.93	-0.010904		
	40	-9.00	-0.010989		
	50	-4.89	-0.005971		
16QAM					
3.80	-30	-2.29	-0.002796	Within authorized band for Band 26	Pass
	-20	-2.85	-0.003480		
	-10	-10.23	-0.012491		
	0	-8.78	-0.010720		
	10	-10.23	-0.012491		
	20	-9.73	-0.011880		
	30	-3.65	-0.004457		
	40	-7.48	-0.009133		
	50	-6.61	-0.008071		
64QAM					
3.80	-30	-5.02	-0.006129	Within authorized band for Band 26	Pass
	-20	-7.90	-0.009646		
	-10	-3.33	-0.004066		
	0	-6.49	-0.007924		
	10	-10.41	-0.012711		
	20	-3.92	-0.004786		
	30	-5.94	-0.007253		
	40	-9.50	-0.011600		
	50	-8.64	-0.010549		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.95	-0.007265	Within authorized band for Band 26	Pass
	3.80	-8.45	-0.010317		
	4.35	-6.42	-0.007839		
16QAM					
25	3.45	-7.30	-0.008913	Within authorized band for Band 26	Pass
	3.80	-6.41	-0.007827		
	4.35	-3.91	-0.004774		
64QAM					
25	3.45	-9.38	-0.011453	Within authorized band for Band 26	Pass
	3.80	-4.15	-0.005067		
	4.35	-11.49	-0.014029		
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					
3.80	-30	-8.41	-0.010054	Within authorized band for Band 26	Pass
	-20	-10.31	-0.012325		
	-10	-7.11	-0.008500		
	0	-9.70	-0.011596		
	10	-10.20	-0.012194		
	20	-6.69	-0.007998		
	30	-8.85	-0.010580		
	40	-9.31	-0.011130		
	50	-9.34	-0.011166		
16QAM					
3.80	-30	-11.33	-0.013545	Within authorized band for Band 26	Pass
	-20	-2.07	-0.002475		
	-10	-7.14	-0.008536		
	0	-4.78	-0.005714		
	10	-12.27	-0.014668		
	20	-11.23	-0.013425		
	30	-7.87	-0.009408		
	40	-8.97	-0.010723		
	50	-9.68	-0.011572		
64QAM					
3.80	-30	-4.85	-0.005798	Within authorized band for Band 26	Pass
	-20	-4.63	-0.005535		
	-10	-7.61	-0.009097		
	0	-6.88	-0.008225		
	10	-6.27	-0.007496		
	20	-10.66	-0.012744		
	30	-8.14	-0.009731		
	40	-5.45	-0.006515		
	50	-9.47	-0.011321		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.94	-0.009492	Within authorized band for Band 26	Pass
	3.80	-11.74	-0.014035		
	4.35	-10.34	-0.012361		
16QAM					
25	3.45	-10.40	-0.012433	Within authorized band for Band 26	Pass
	3.80	-9.18	-0.010974		
	4.35	-10.64	-0.012720		
64QAM					
25	3.45	-10.89	-0.013019	Within authorized band for Band 26	Pass
	3.80	-5.97	-0.007137		
	4.35	-3.81	-0.004555		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

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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					
3.80	-30	-9.60	-0.003699	Within authorized band for Band 38	Pass
	-20	-5.21	-0.002008		
	-10	-3.50	-0.001349		
	0	5.46	0.002104		
	10	3.52	0.001356		
	20	-7.25	-0.002794		
	30	-7.12	-0.002744		
	40	-7.55	-0.002909		
	50	-10.16	-0.003915		
16QAM					
3.80	-30	-4.46	-0.001719	Within authorized band for Band 38	Pass
	-20	-5.01	-0.001931		
	-10	-1.96	-0.000755		
	0	-7.98	-0.003075		
	10	-3.78	-0.001457		
	20	-3.53	-0.001360		
	30	-7.15	-0.002755		
	40	-6.31	-0.002432		
	50	-2.19	-0.000844		
64QAM					
3.80	-30	-3.38	-0.001303	Within authorized band for Band 38	Pass
	-20	-8.93	-0.003441		
	-10	-8.10	-0.003121		
	0	-11.03	-0.004250		
	10	6.94	0.002674		
	20	-11.26	-0.004339		
	30	-2.92	-0.001125		
	40	3.93	0.001514		
	50	-2.99	-0.001152		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-11.54	-0.004447	Within authorized band for Band 38	Pass
	3.80	-6.47	-0.002493		
	4.35	-6.78	-0.002613		
16QAM					
25	3.45	5.92	0.002281	Within authorized band for Band 38	Pass
	3.80	-5.48	-0.002112		
	4.35	-4.48	-0.001726		
64QAM					
25	3.45	-6.98	-0.002690	Within authorized band for Band 38	Pass
	3.80	-14.25	-0.005491		
	4.35	-4.32	-0.001665		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

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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					
3.80	-30	-6.18	-0.002383	Within authorized band for Band 41	Pass
	-20	-8.60	-0.003317		
	-10	-6.78	-0.002615		
	0	-8.73	-0.003367		
	10	-7.58	-0.002923		
	20	-4.94	-0.001905		
	30	-11.62	-0.004481		
	40	-9.16	-0.003533		
	50	-6.45	-0.002487		
16QAM					
3.80	-30	-10.54	-0.004065	Within authorized band for Band 41	Pass
	-20	-6.39	-0.002464		
	-10	-7.18	-0.002769		
	0	-8.10	-0.003124		
	10	-8.75	-0.003374		
	20	-8.33	-0.003212		
	30	-7.28	-0.002808		
	40	-9.86	-0.003803		
	50	-7.34	-0.002831		
64QAM					
3.80	-30	-10.70	-0.004126	Within authorized band for Band 41	Pass
	-20	-10.19	-0.003930		
	-10	-11.57	-0.004462		
	0	-6.01	-0.002318		
	10	-6.65	-0.002565		
	20	-5.51	-0.002125		
	30	-9.40	-0.003625		
	40	-7.08	-0.002730		
	50	-7.24	-0.002792		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.15	-0.002757	Within authorized band for Band 41	Pass
	3.80	-3.52	-0.001358		
	4.35	-9.30	-0.003587		
16QAM					
25	3.45	-6.35	-0.002449	Within authorized band for Band41	Pass
	3.80	-9.40	-0.003625		
	4.35	-7.30	-0.002815		
64QAM					
25	3.45	-7.72	-0.002977	Within authorized band for Band41	Pass
	3.80	-9.96	-0.003841		
	4.35	-10.70	-0.004126		
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					
3.80	-30	-5.48	-0.003140	Within authorized band for Band 66	Pass
	-20	-7.48	-0.004287		
	-10	-8.85	-0.005072		
	0	-3.43	-0.001966		
	10	-6.90	-0.003954		
	20	-2.10	-0.001203		
	30	-12.92	-0.007404		
	40	-4.61	-0.002642		
	50	-4.84	-0.002774		
16QAM					
3.80	-30	-8.18	-0.004688	Within authorized band for Band 66	Pass
	-20	-8.00	-0.004585		
	-10	-11.19	-0.006413		
	0	-7.00	-0.004011		
	10	2.39	0.001370		
	20	-6.41	-0.003673		
	30	-6.14	-0.003519		
	40	-4.84	-0.002774		
	50	-5.18	-0.002968		
64QAM					
3.80	-30	-7.85	-0.004499	Within authorized band for Band 66	Pass
	-20	-9.33	-0.005347		
	-10	-11.00	-0.006304		
	0	-9.67	-0.005542		
	10	-8.84	-0.005066		
	20	-6.07	-0.003479		
	30	-10.80	-0.006189		
	40	-9.48	-0.005433		
	50	-3.58	-0.002052		



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Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.16	-0.002957	Within authorized band for Band 66	Pass
	3.80	-5.21	-0.002986		
	4.35	-3.88	-0.002223		
16QAM					
25	3.45	-2.78	-0.001593	Within authorized band for Band 66	Pass
	3.80	-3.50	-0.002006		
	4.35	-7.45	-0.004269		
64QAM					
25	3.45	-5.21	-0.002986	Within authorized band for Band 66	Pass
	3.80	-8.54	-0.004894		
	4.35	-5.55	-0.003181		
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



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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

