

Appendix-A LTE Band 71

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.31	20.26	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.6	20.55	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.47	20.42	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.7	19.65	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.43	19.38	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.58	19.53	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.75	19.7	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.8	18.75	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.44	20.39	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	24.05	21	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.53	20.48	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.65	19.6	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.57	19.52	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.48	19.43	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.45	19.4	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.58	18.53	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.57	20.52	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.87	20.82	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.57	20.52	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.67	19.62	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.72	19.67	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.11	20.06	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.73	19.68	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.56	18.51	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.51	20.46	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.42	20.37	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.31	20.26	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.55	19.5	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.46	19.41	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.41	19.36	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.35	19.3	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.54	18.49	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.32	20.27	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.82	20.77	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.47	20.42	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.68	19.63	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.38	19.33	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#24	22.5	19.45	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.47	19.42	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.59	18.54	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.61	20.56	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.78	20.73	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.46	20.41	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.78	19.73	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.68	19.63	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.62	19.57	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.32	19.27	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.75	18.7	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.47	20.42	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.45	20.4	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.27	20.22	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.63	19.58	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.31	19.26	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	23.13	20.08	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.26	19.21	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.6	18.55	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.45	20.4	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.74	20.69	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.5	20.45	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.66	19.61	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.5	19.45	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.53	19.48	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.49	19.44	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.56	18.51	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.63	20.58	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.64	20.59	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.46	20.41	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.78	19.73	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.45	19.4	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.55	19.5	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.2	19.15	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.77	18.72	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.51	20.46	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.65	20.6	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.3	20.25	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.63	19.58	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.65	19.6	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.59	19.54	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.33	19.28	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.64	18.59	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.34	20.29	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.86	20.81	34.77	PASS

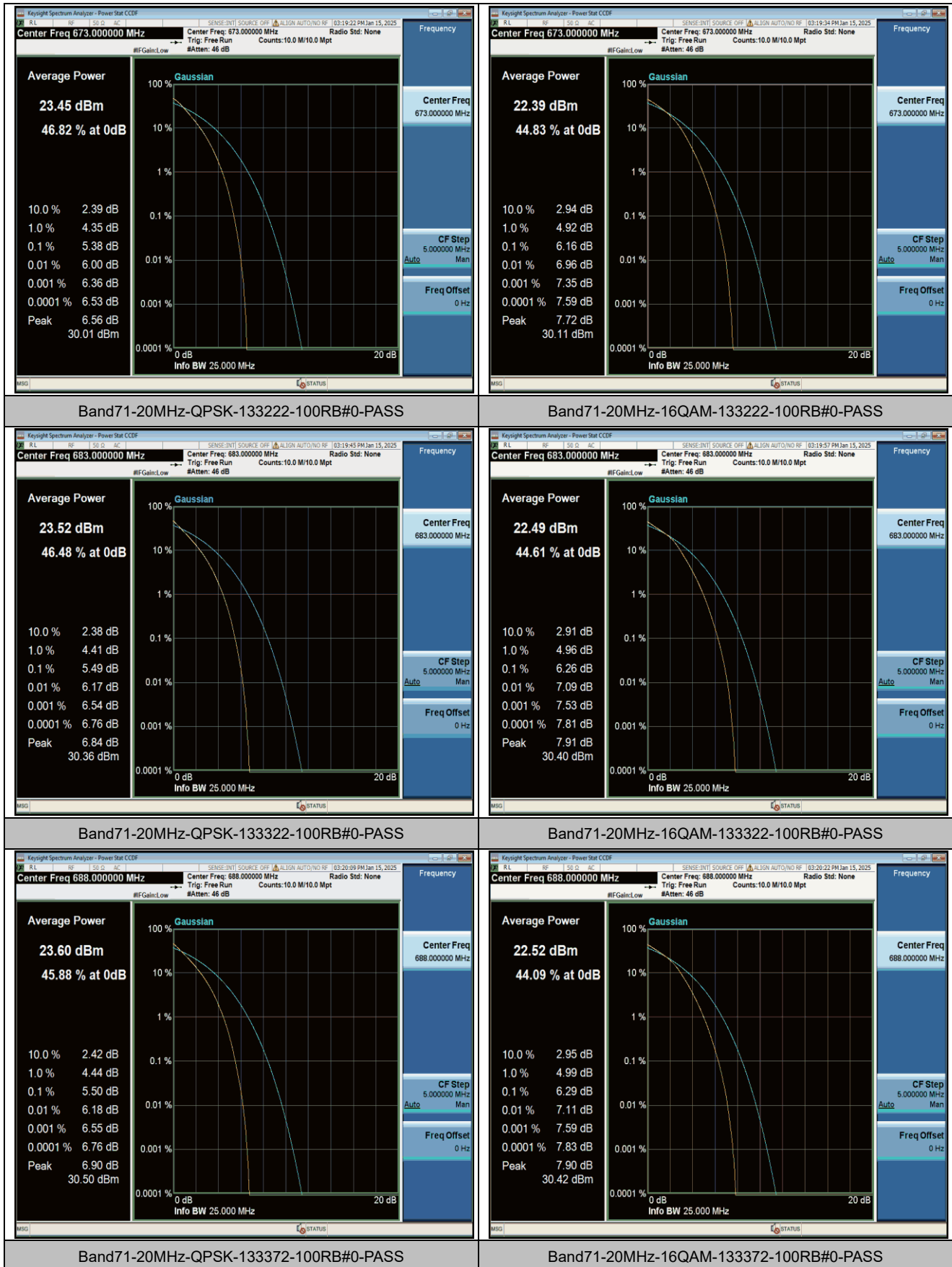
Band71	20MHz	QPSK	133322	1RB#99	23.44	20.39	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.67	19.62	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.36	19.31	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	23.1	20.05	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.39	19.34	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.58	18.53	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.42	20.37	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.67	20.62	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.36	20.31	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.68	19.63	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.4	19.35	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.47	19.42	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.65	19.6	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.69	18.64	34.77	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.38	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.16	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.49	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.26	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.50	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.29	13	PASS

Test Graphs

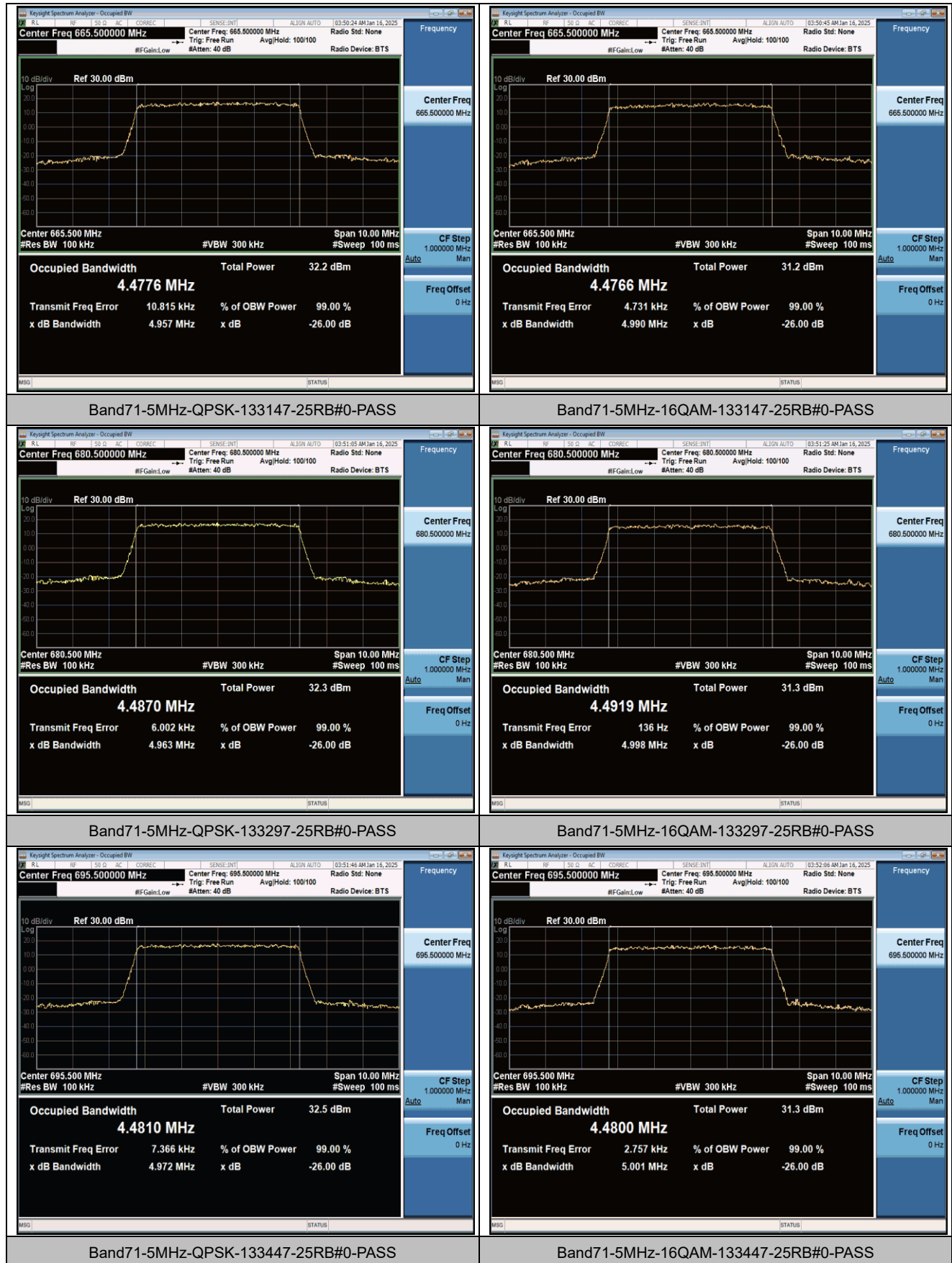


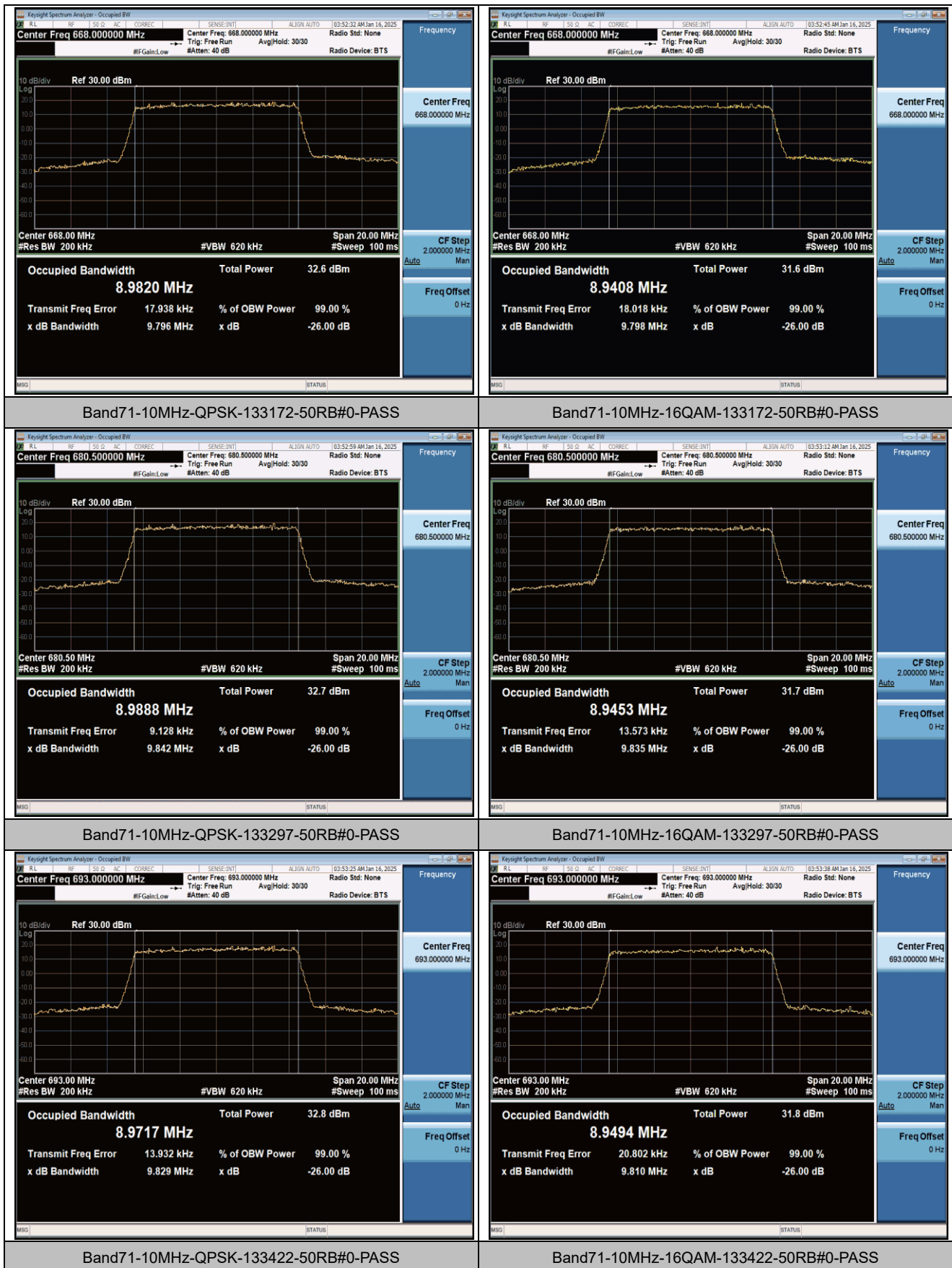
26dB Bandwidth and Occupied Bandwidth

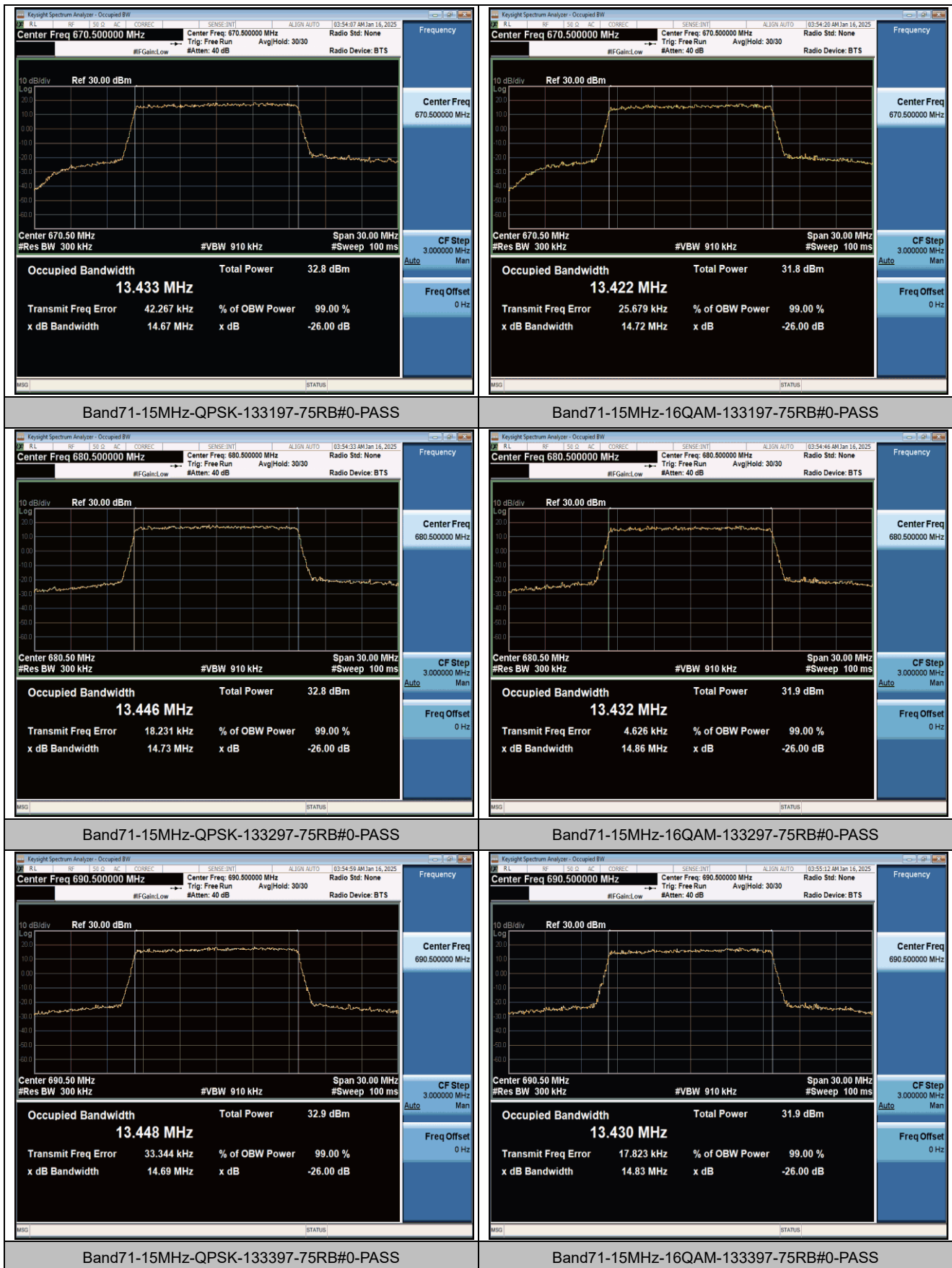
Test Result

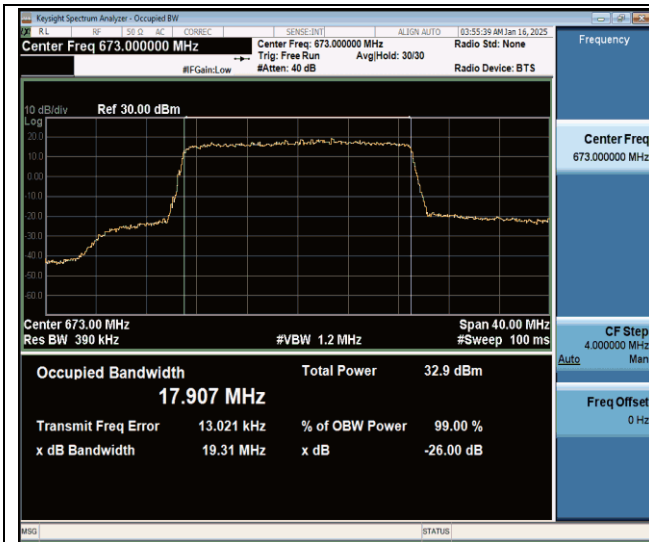
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4776	4.957	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4766	4.990	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4870	4.963	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.4919	4.998	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.4810	4.972	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4800	5.001	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9820	9.796	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9408	9.798	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9888	9.842	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9453	9.835	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9717	9.829	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9494	9.810	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.433	14.67	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.422	14.72	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.446	14.73	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.432	14.86	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.448	14.69	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.430	14.83	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.907	19.31	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.853	19.41	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.930	19.46	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.920	19.45	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.951	19.50	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.895	19.41	PASS

Test Graphs





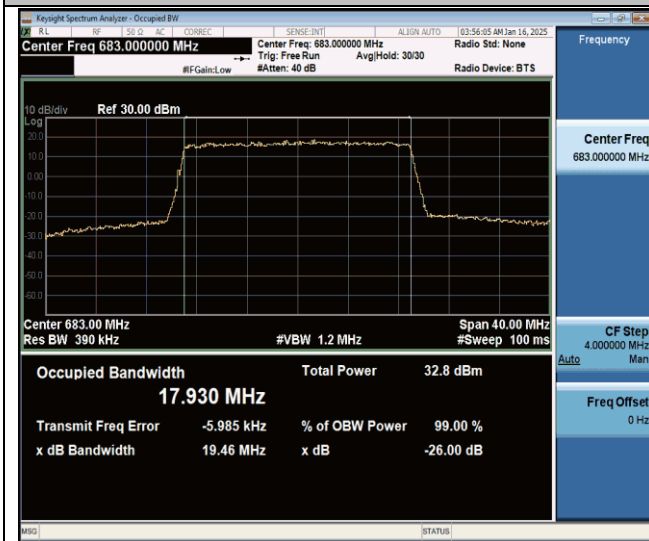




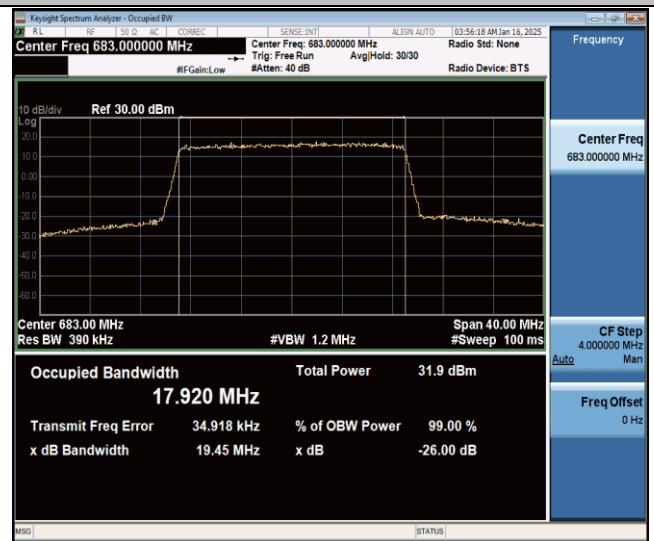
Band71-20MHz-QPSK-133222-100RB#0-PASS



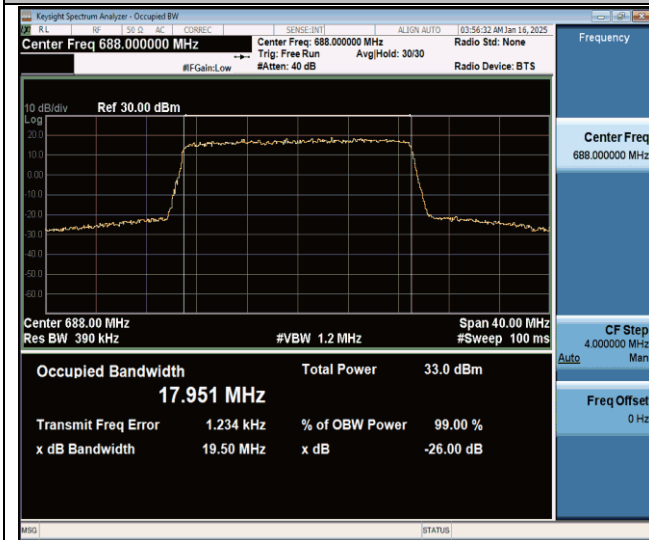
Band71-20MHz-16QAM-133222-100RB#0-PASS



Band71-20MHz-QPSK-133322-100RB#0-PASS



Band71-20MHz-16QAM-133322-100RB#0-PASS



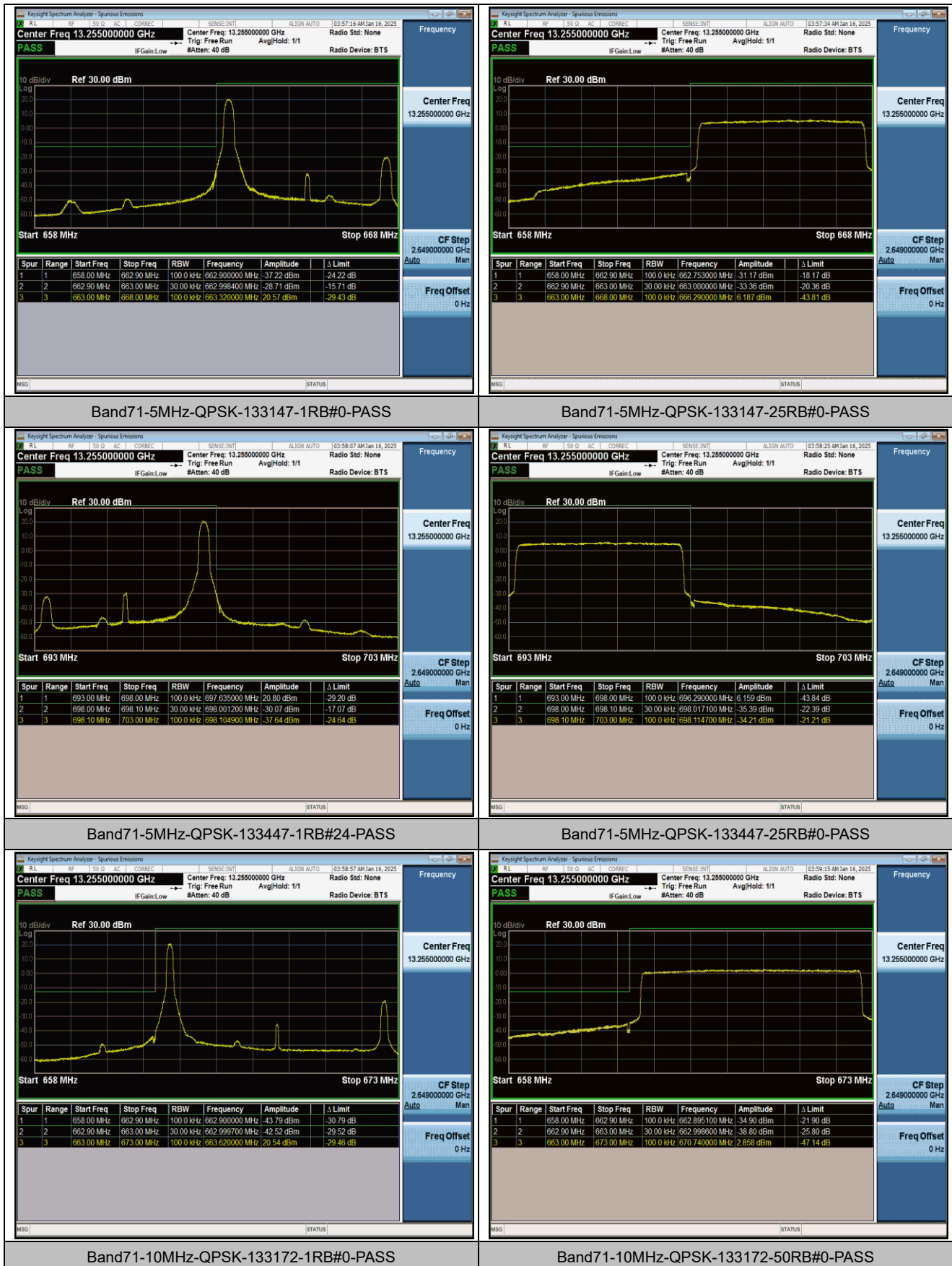
Band71-20MHz-QPSK-133372-100RB#0-PASS

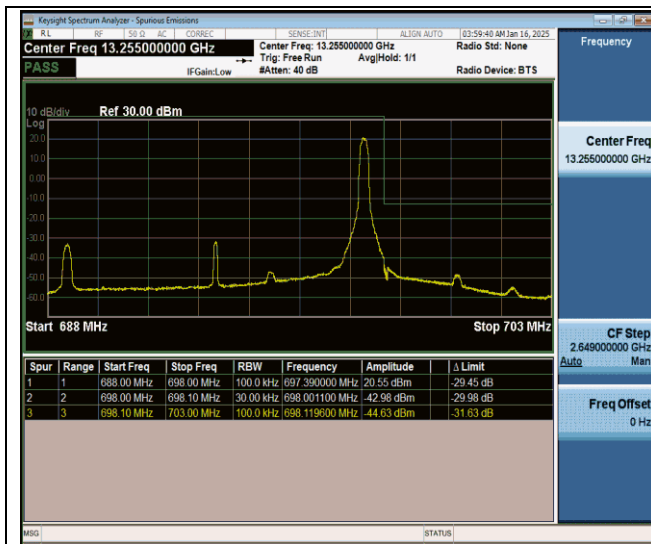


Band71-20MHz-16QAM-133372-100RB#0-PASS

Band Edge

Test Graphs

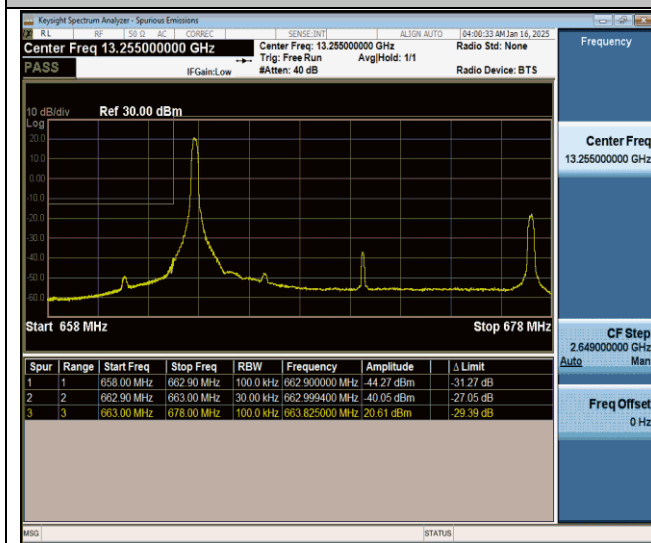




Band71-10MHz-QPSK-133422-1RB#49-PASS



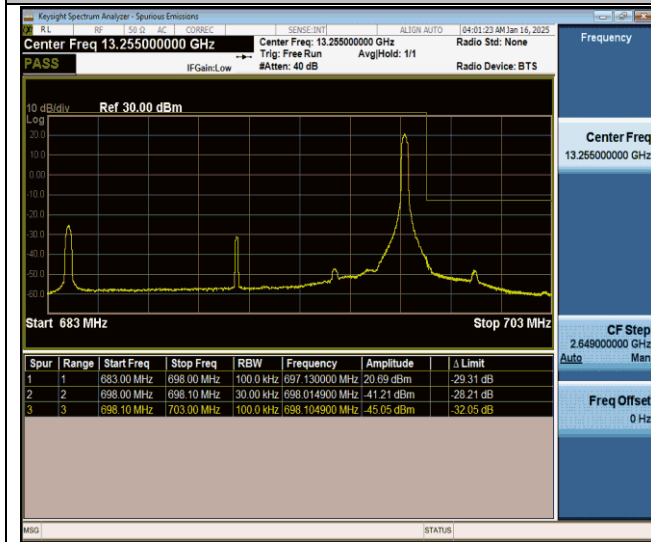
Band71-10MHz-QPSK-133422-50RB#0-PASS



Band71-15MHz-QPSK-133197-1RB#0-PASS



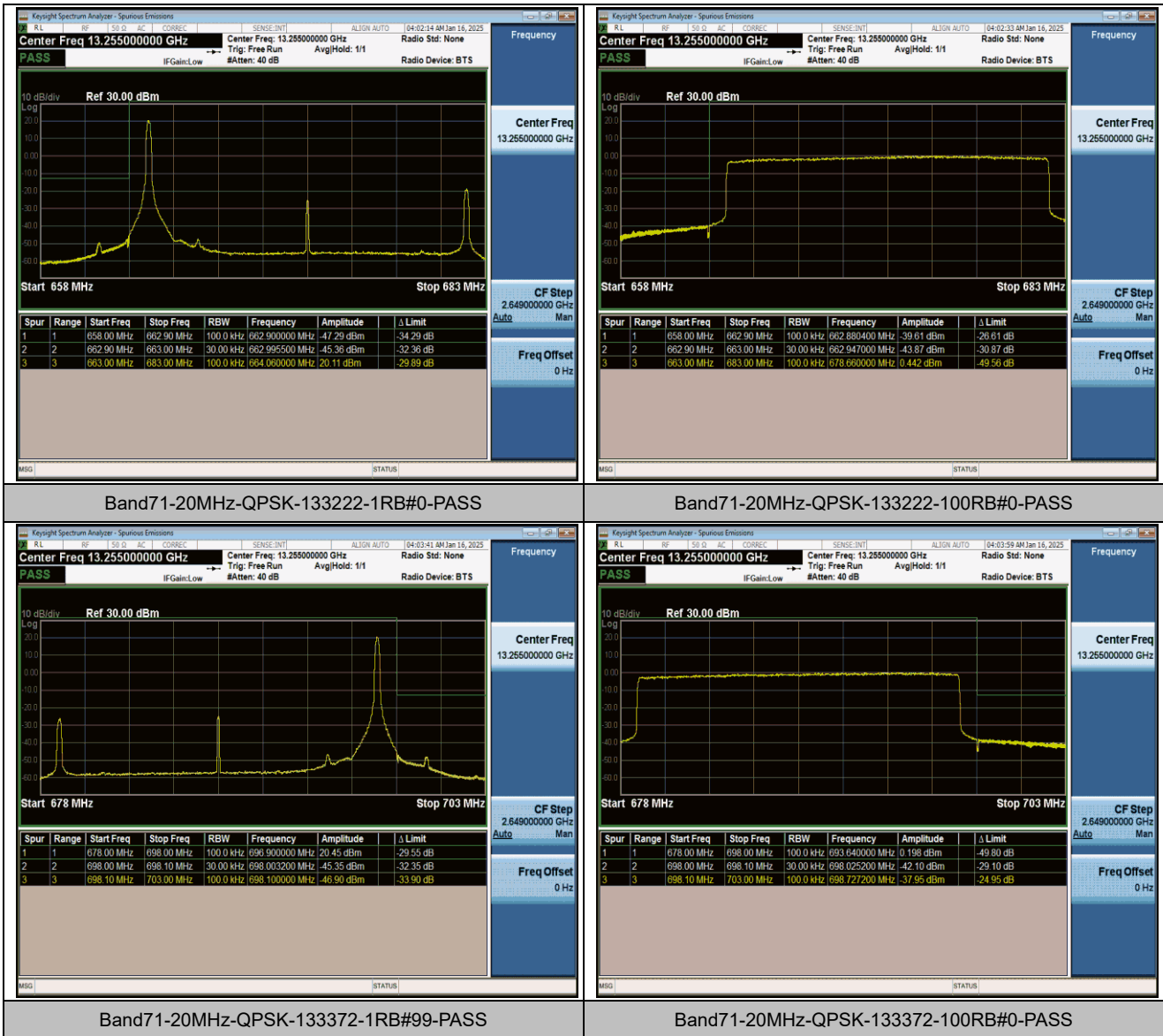
Band71-15MHz-QPSK-133197-75RB#0-PASS



Band71-15MHz-QPSK-133397-1RB#74-PASS

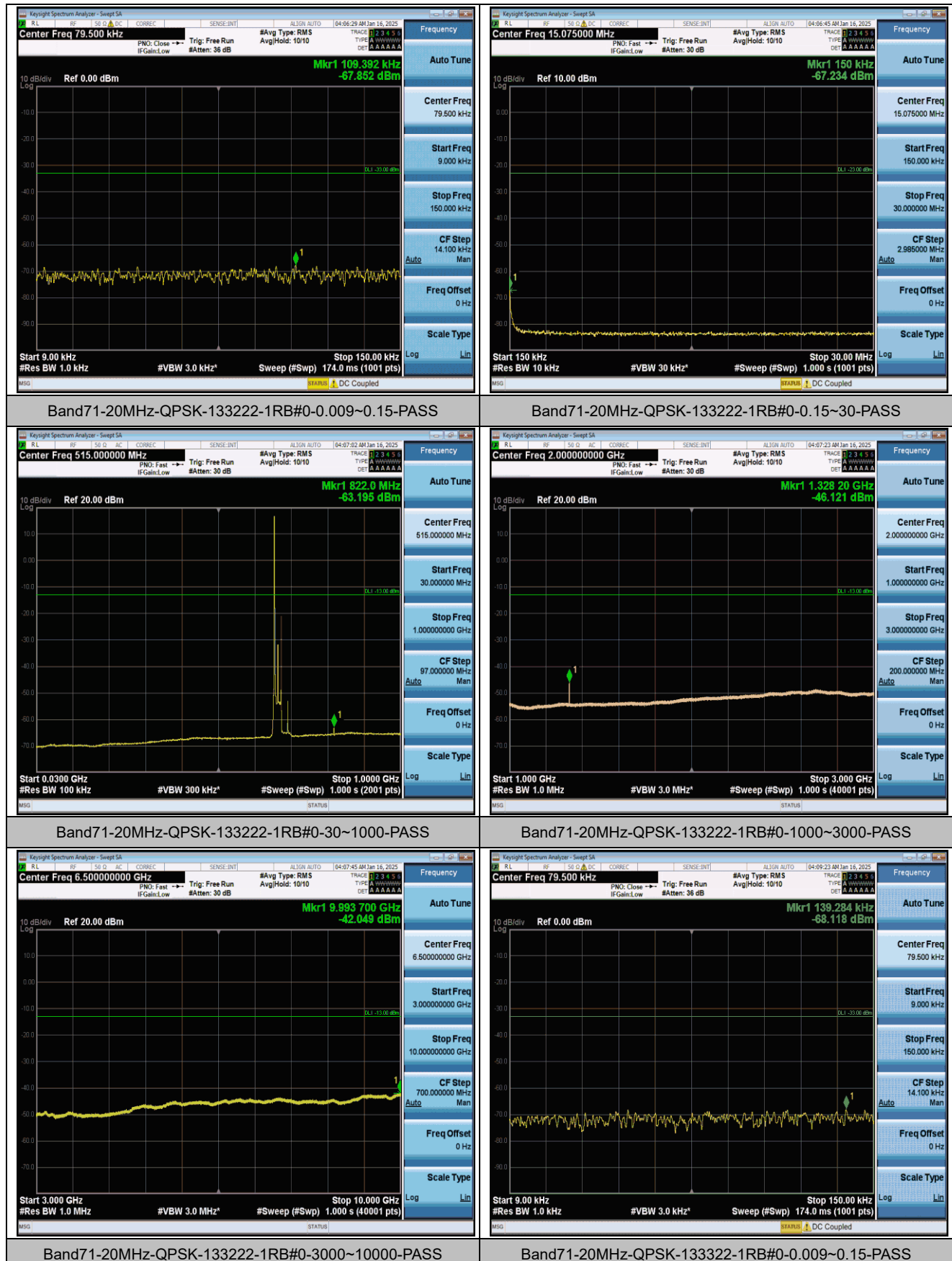


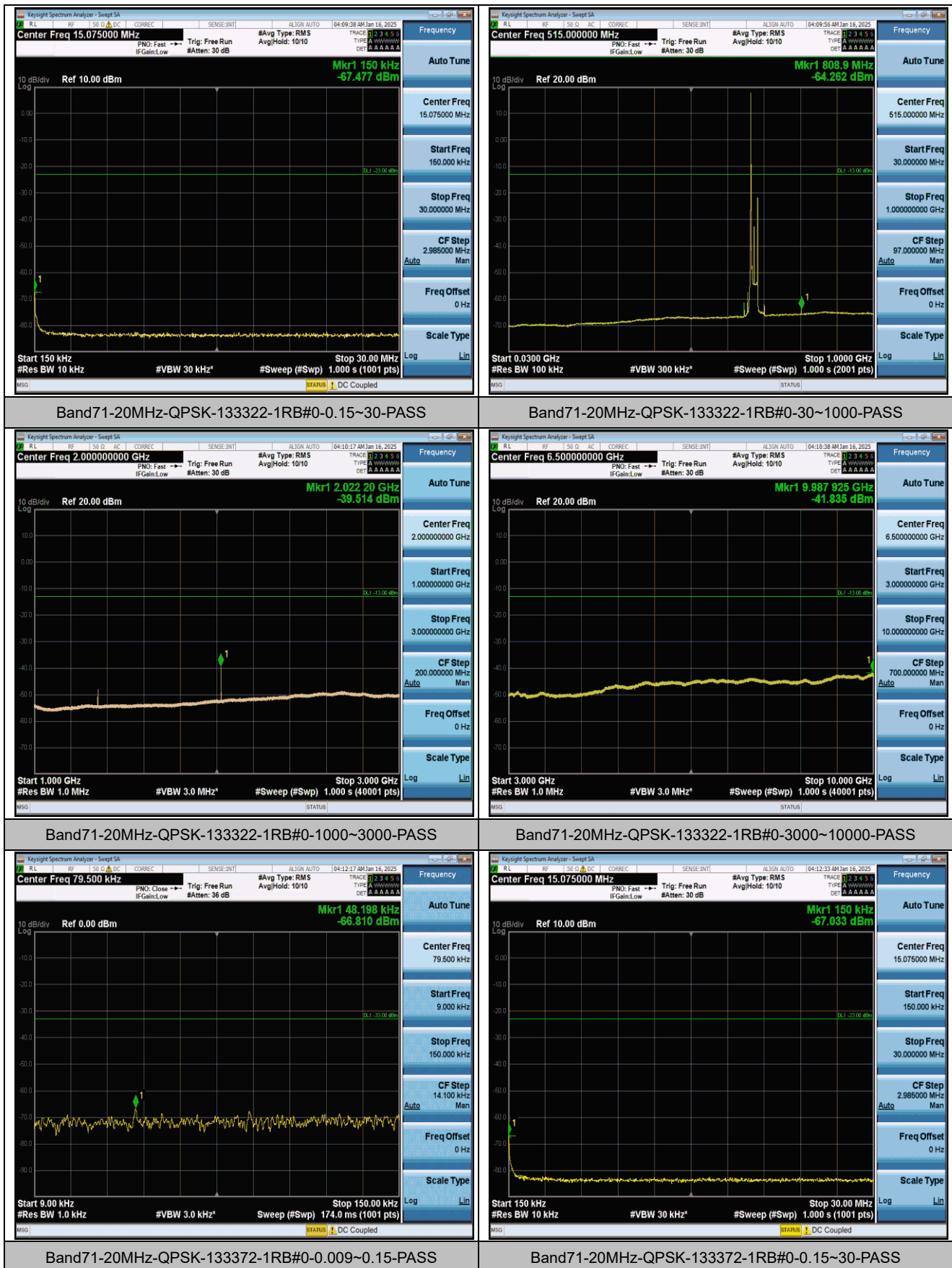
Band71-15MHz-QPSK-133397-75RB#0-PASS



Conducted Spurious Emission

Test Graphs







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



Band71-20MHz-QPSK-133372-1RB#0-1000~3000-PASS



Band71-20MHz-QPSK-133372-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-1.30	-0.001903	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-0.60	-0.000878	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.50	-0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-0.60	-0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-0.20	-0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	0.40	0.000586	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-0.80	-0.001171	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.00	0.000000	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-0.70	-0.001025	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	0.00	0.000000	PASS

~The End~