

Appendix-C LTE Band 13

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.24	22.01	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.7	23.47	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.39	22.16	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.54	21.31	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.54	22.31	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.6	22.37	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.39	22.16	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.51	21.28	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.54	22.31	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.55	22.32	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.42	22.19	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.52	21.29	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.86	21.63	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.64	21.41	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.86	21.63	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.48	20.25	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.01	21.78	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.02	21.79	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.85	21.62	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.51	20.28	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.1	21.87	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.75	21.52	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.52	21.29	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.53	20.3	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.64	22.41	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.49	22.26	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.62	22.39	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.75	21.52	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.8	21.57	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.21	21.98	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.78	21.55	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.58	20.35	34.77	PASS

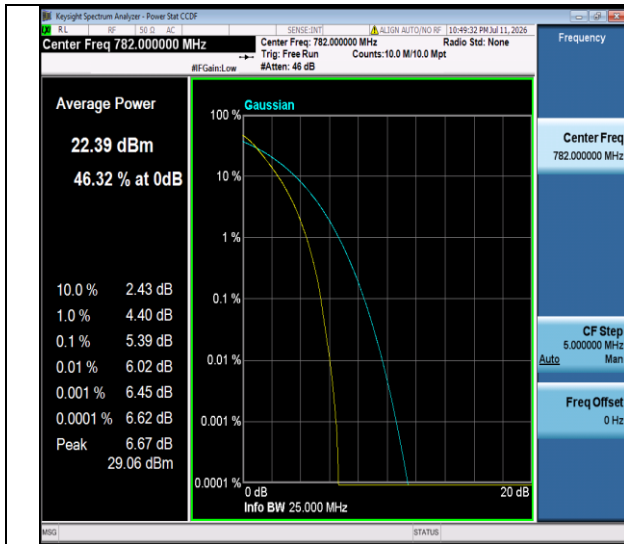
Peak-to-Average Ratio(CCDF)

Test Result

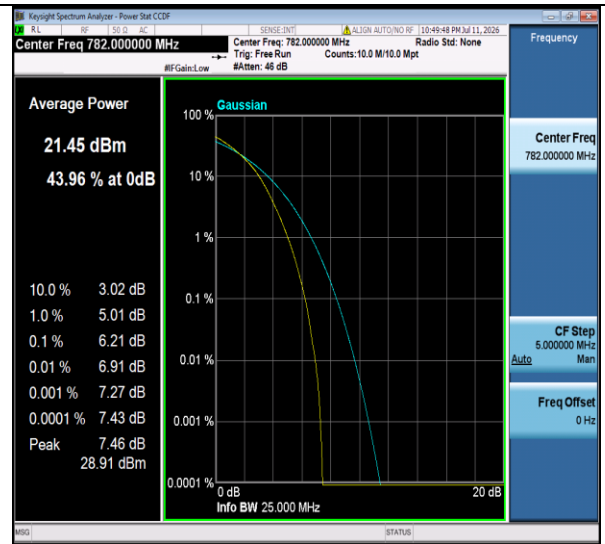
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.74	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.61	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.64	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.44	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.30	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.28	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.39	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.21	13	PASS

Test Graphs





Band13-10MHz-QPSK-23230-50RB#0-PASS



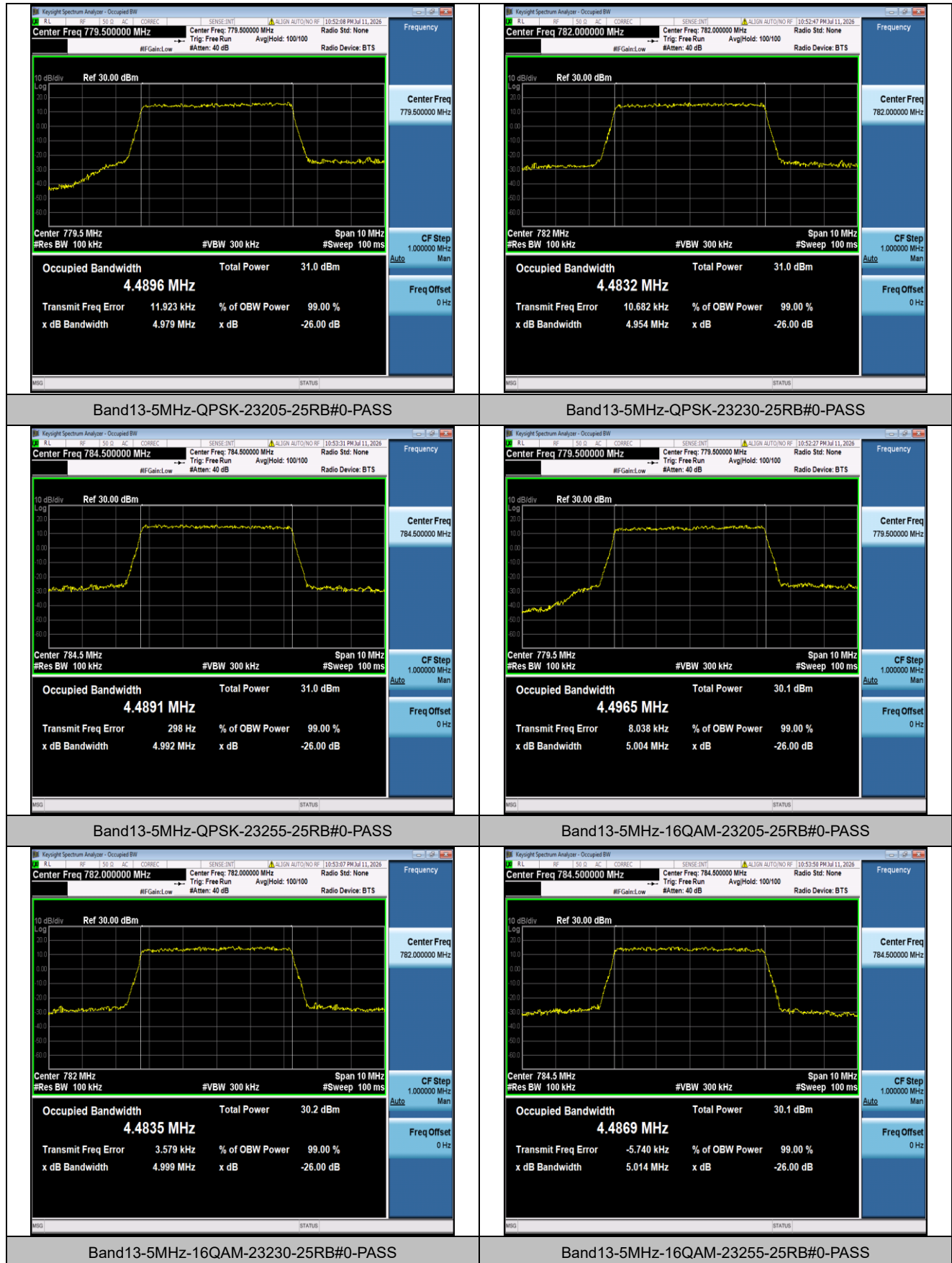
Band13-10MHz-16QAM-23230-50RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

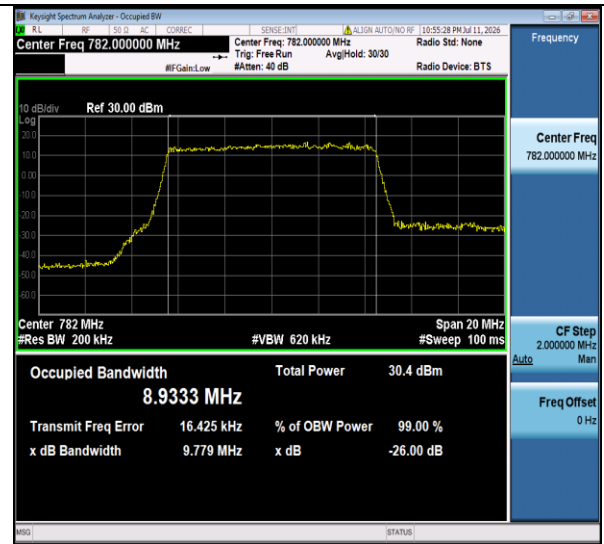
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4896	4.979	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4832	4.954	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4891	4.992	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4965	5.004	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4835	4.999	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4869	5.014	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9598	9.816	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9333	9.779	PASS

Test Graphs





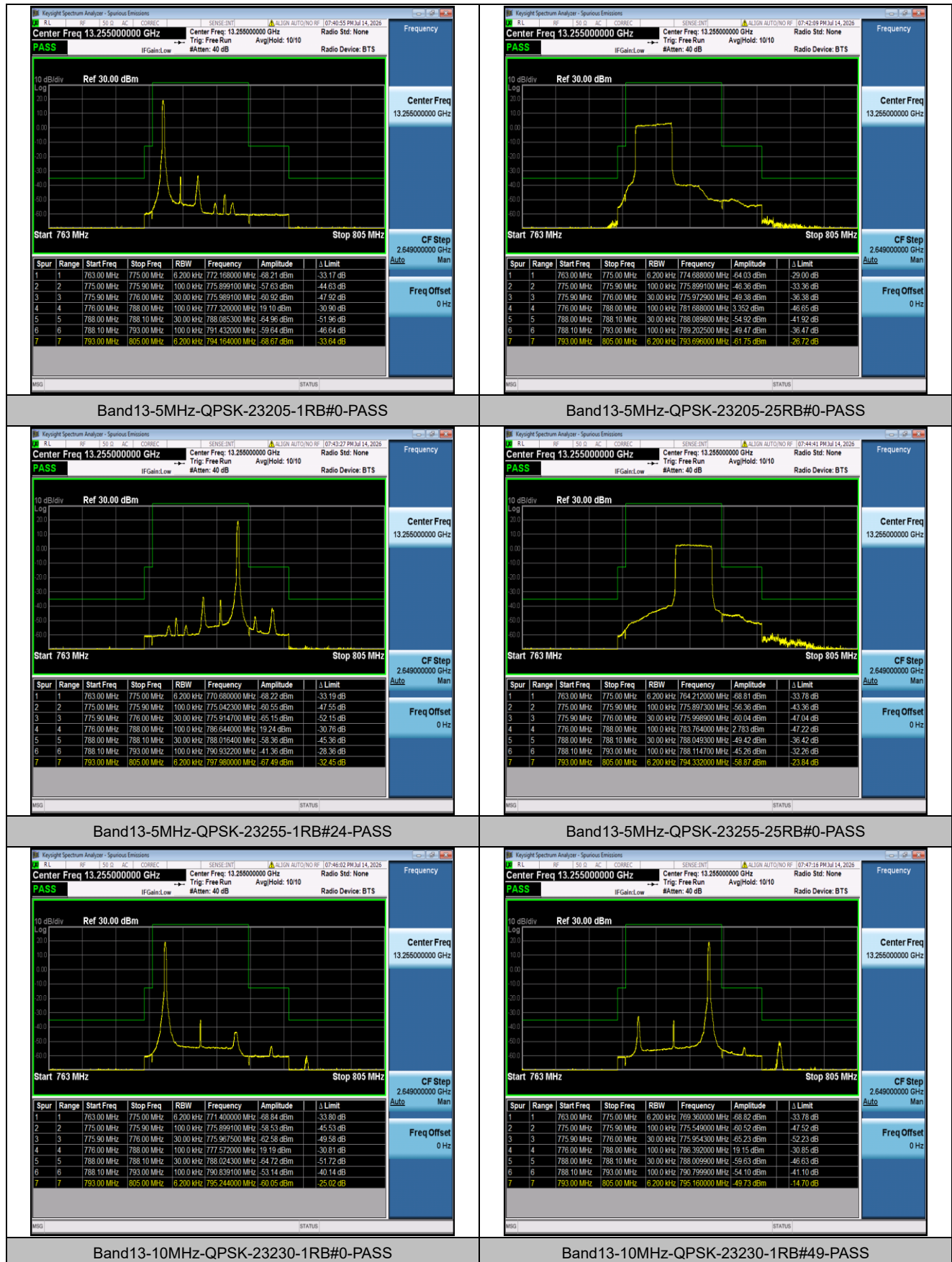
Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS

Band Edge

Test Graphs

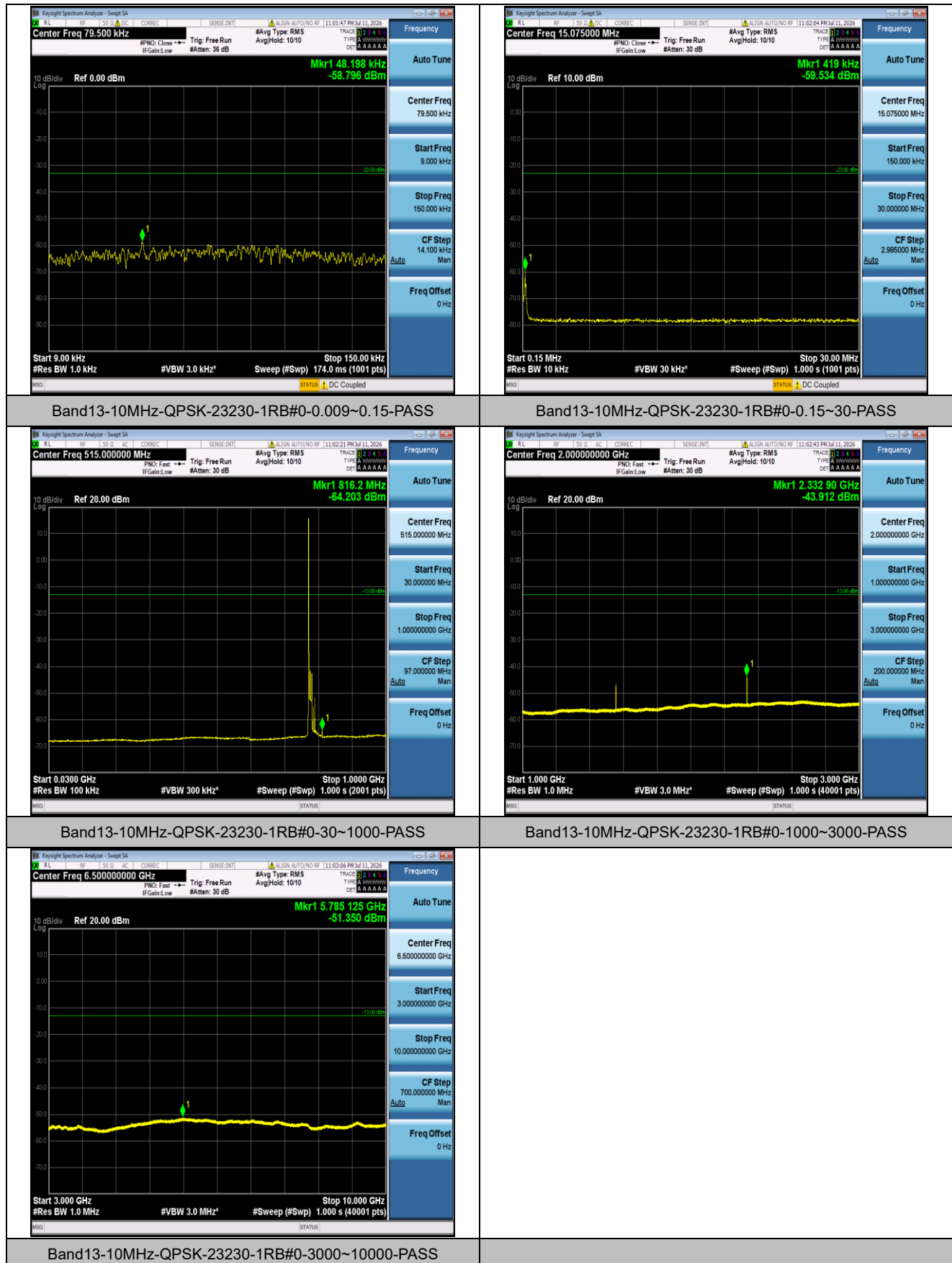




Band13-10MHz-QPSK-23230-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	2.20	0.002813	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	4.90	0.006266	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.20	-0.000256	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	4.00	0.005115	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	1.00	0.001279	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-0.10	-0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	4.10	0.005243	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	2.20	0.002813	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1.70	0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	2.60	0.003325	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.60	0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.30	0.001662	PASS

~The End~