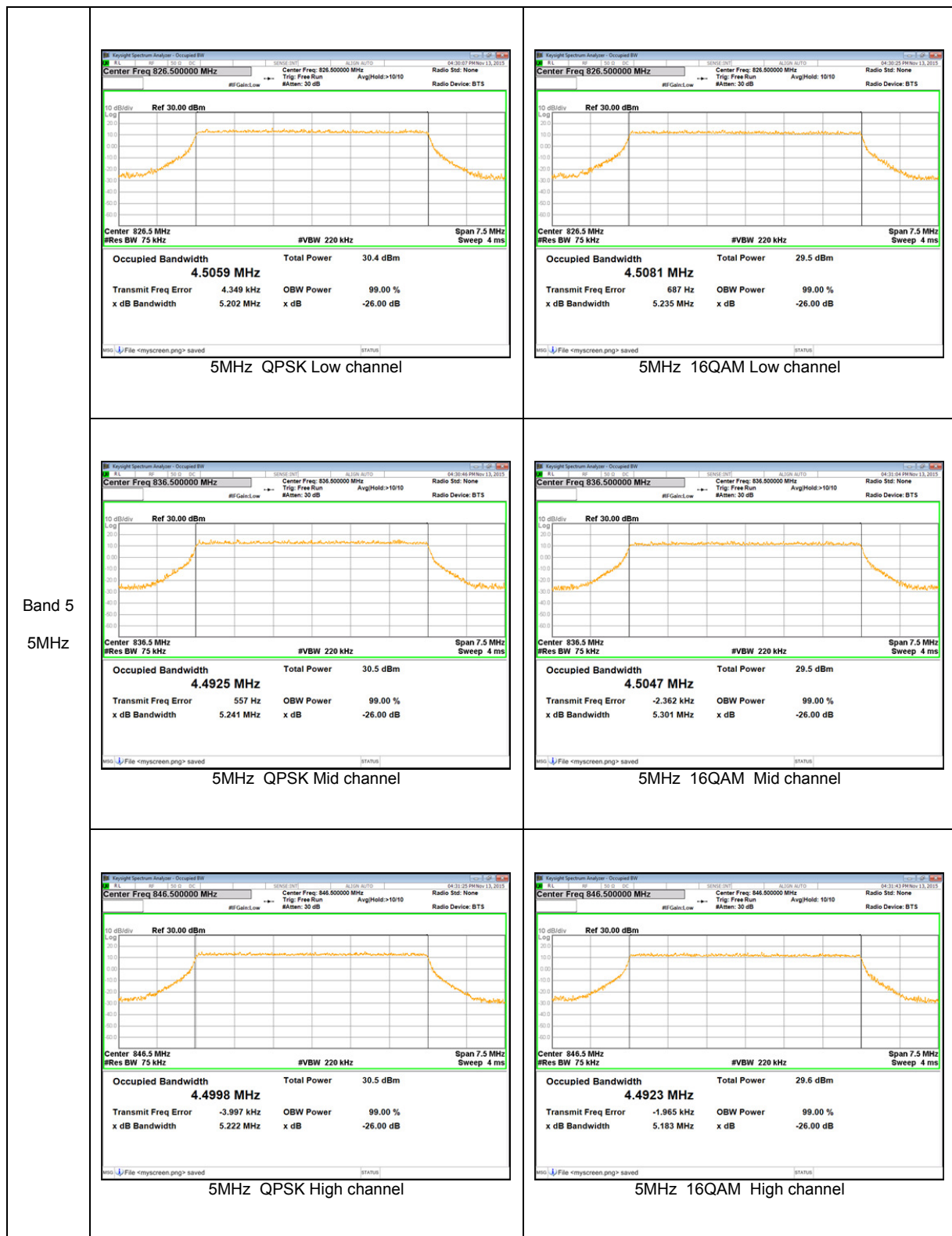
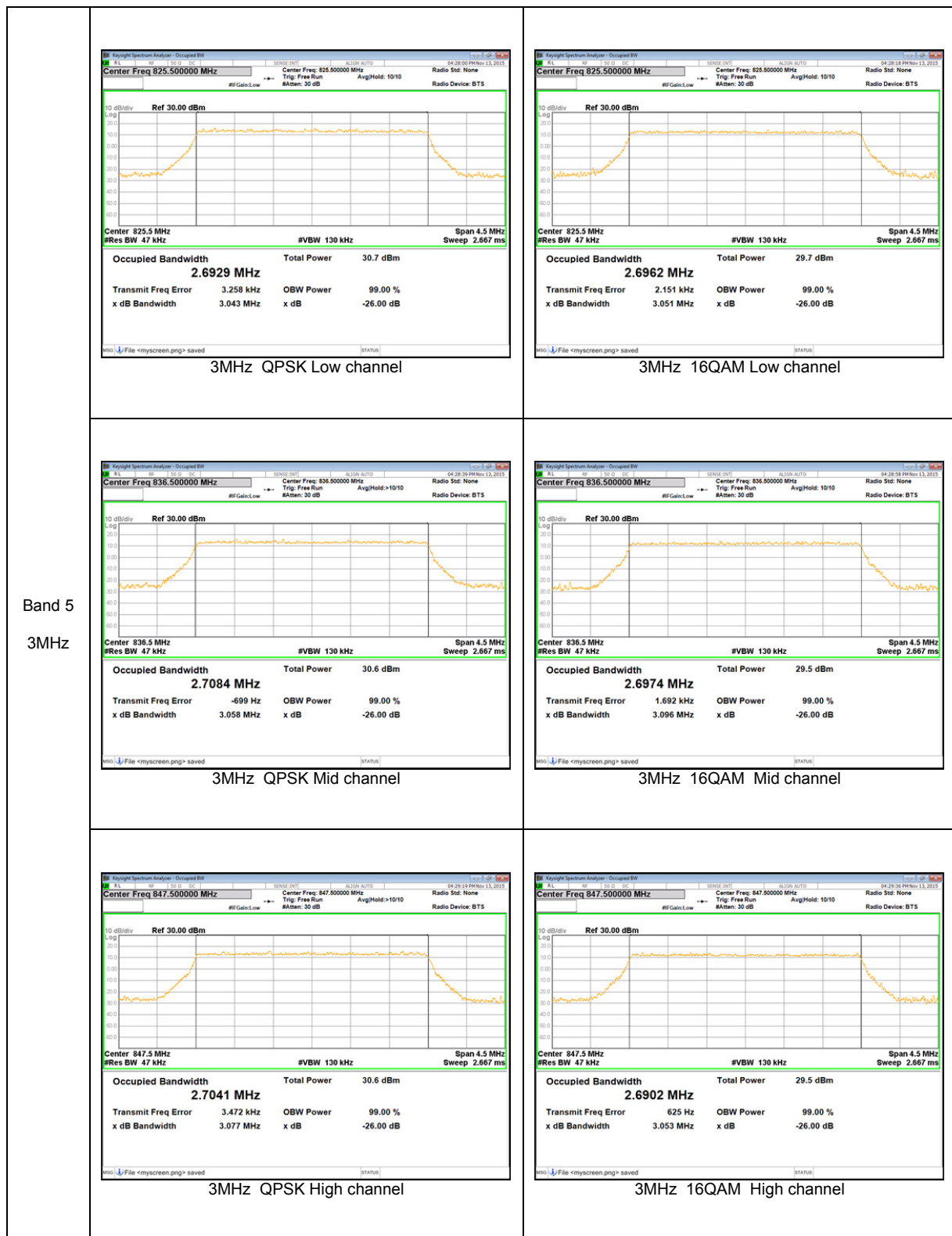
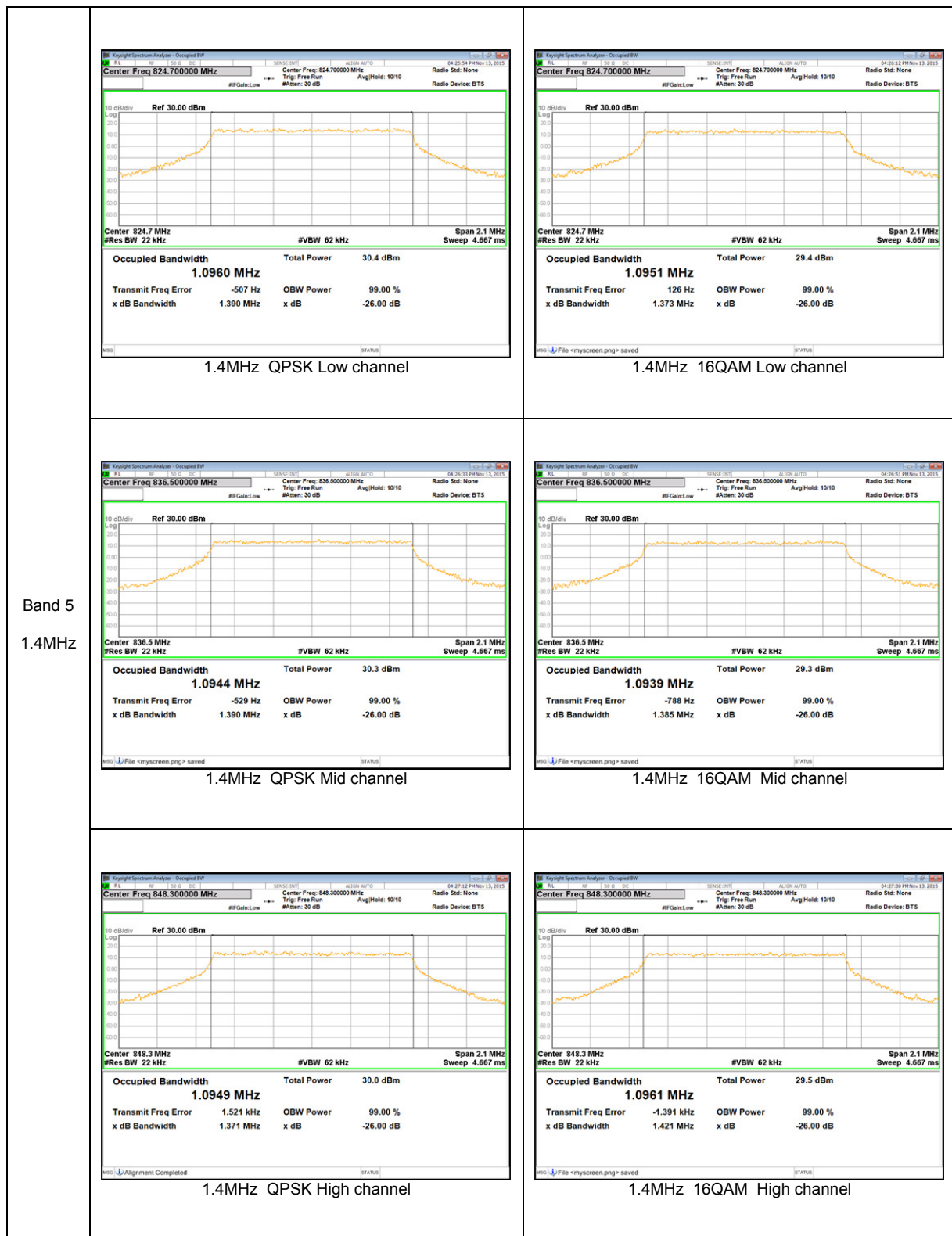
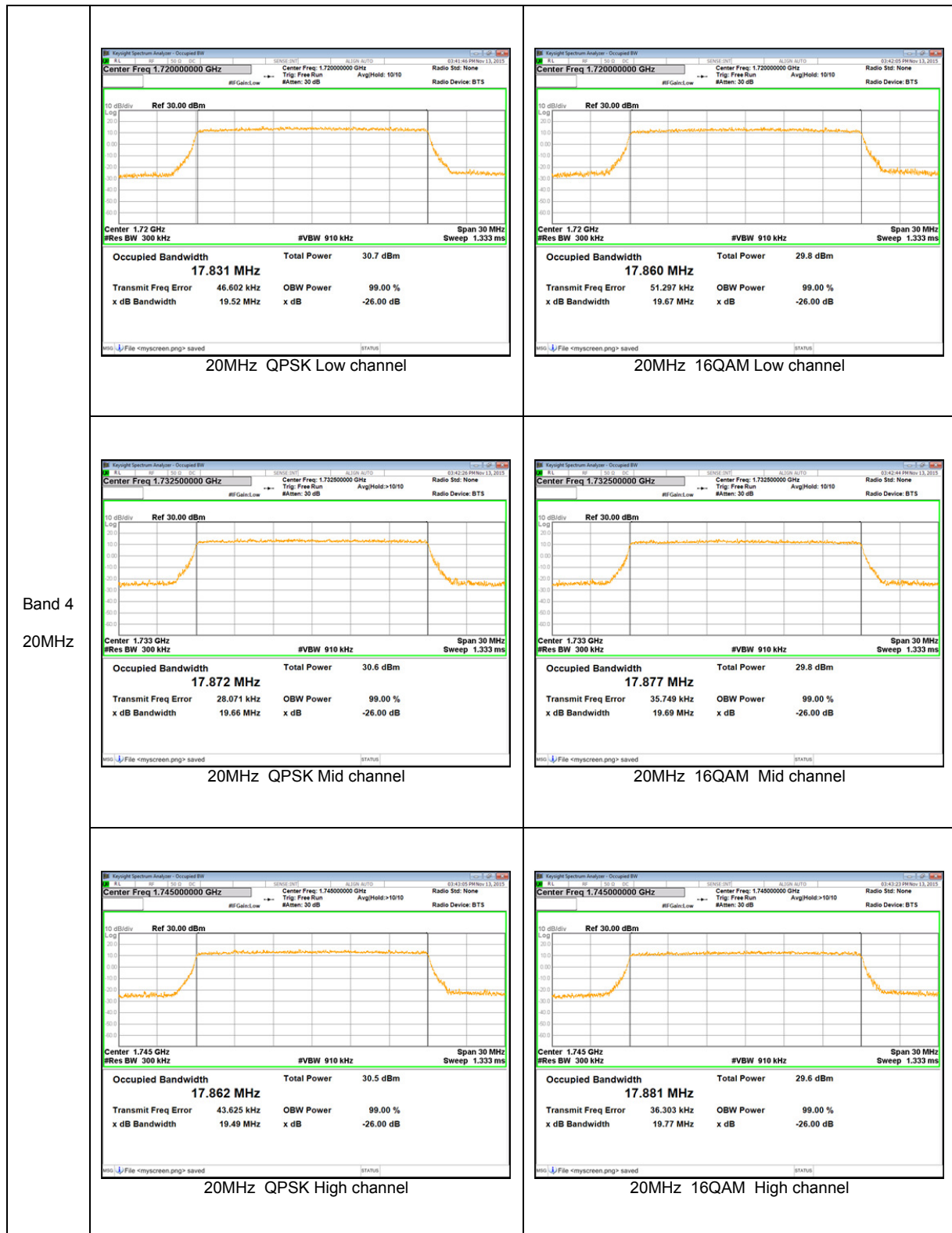


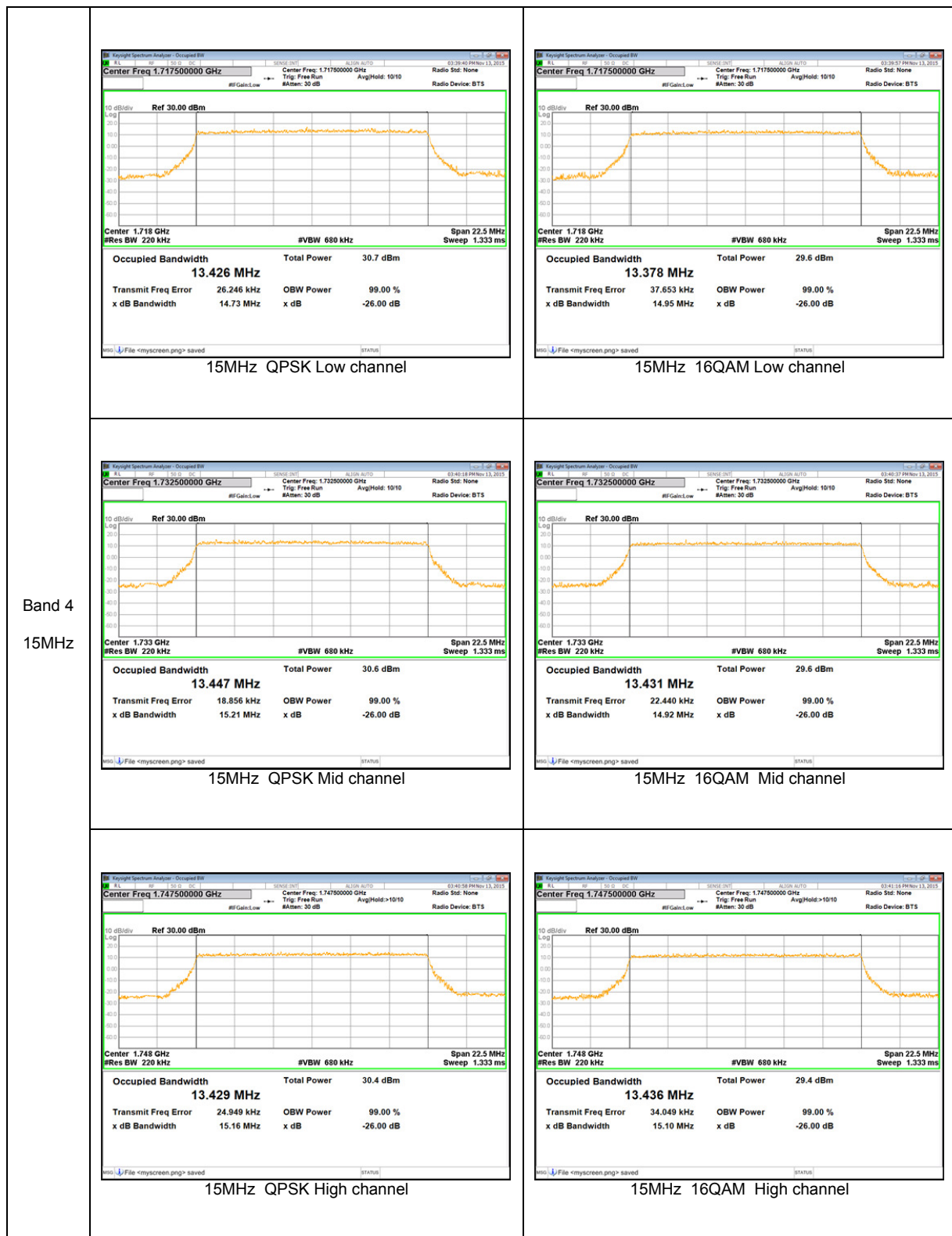


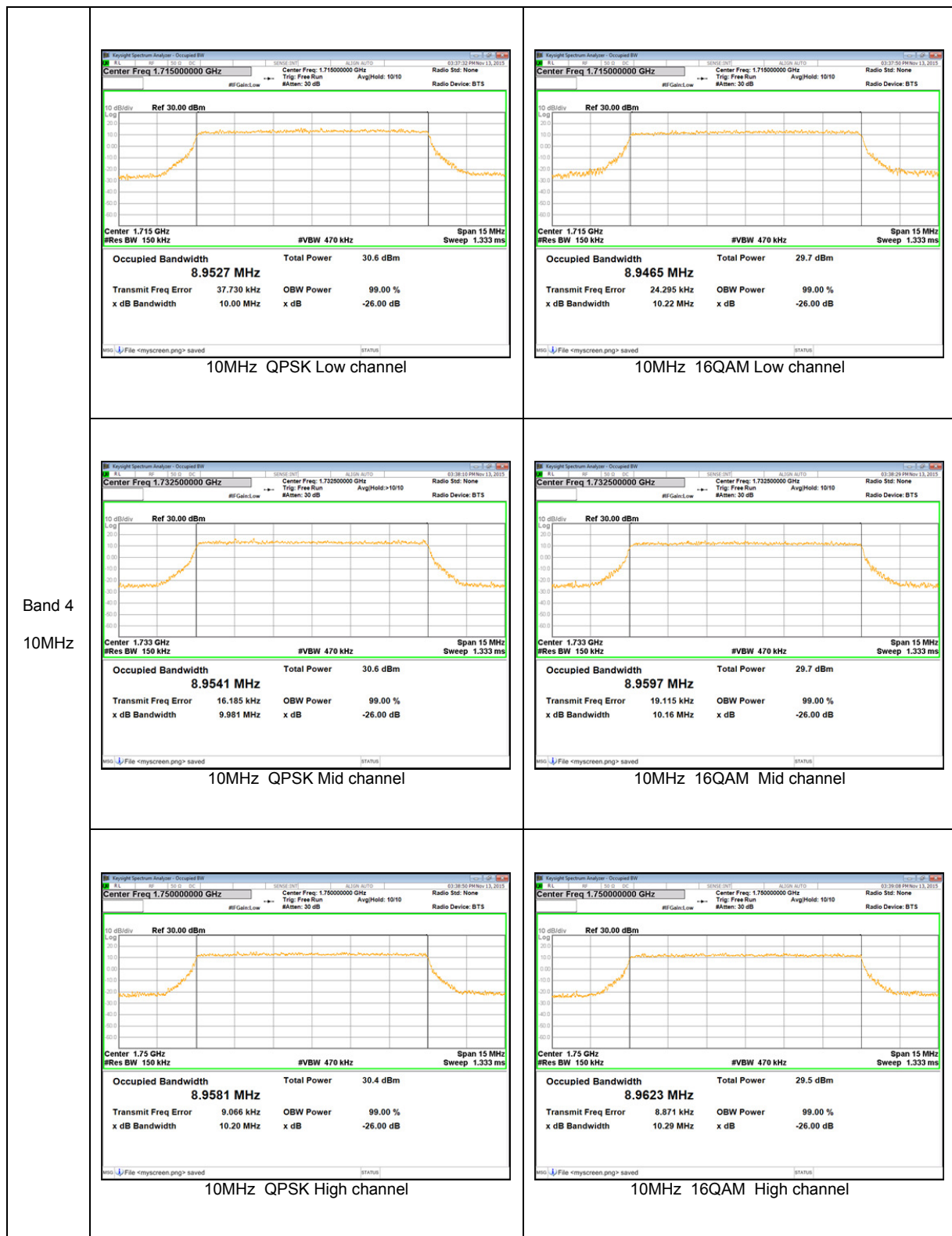


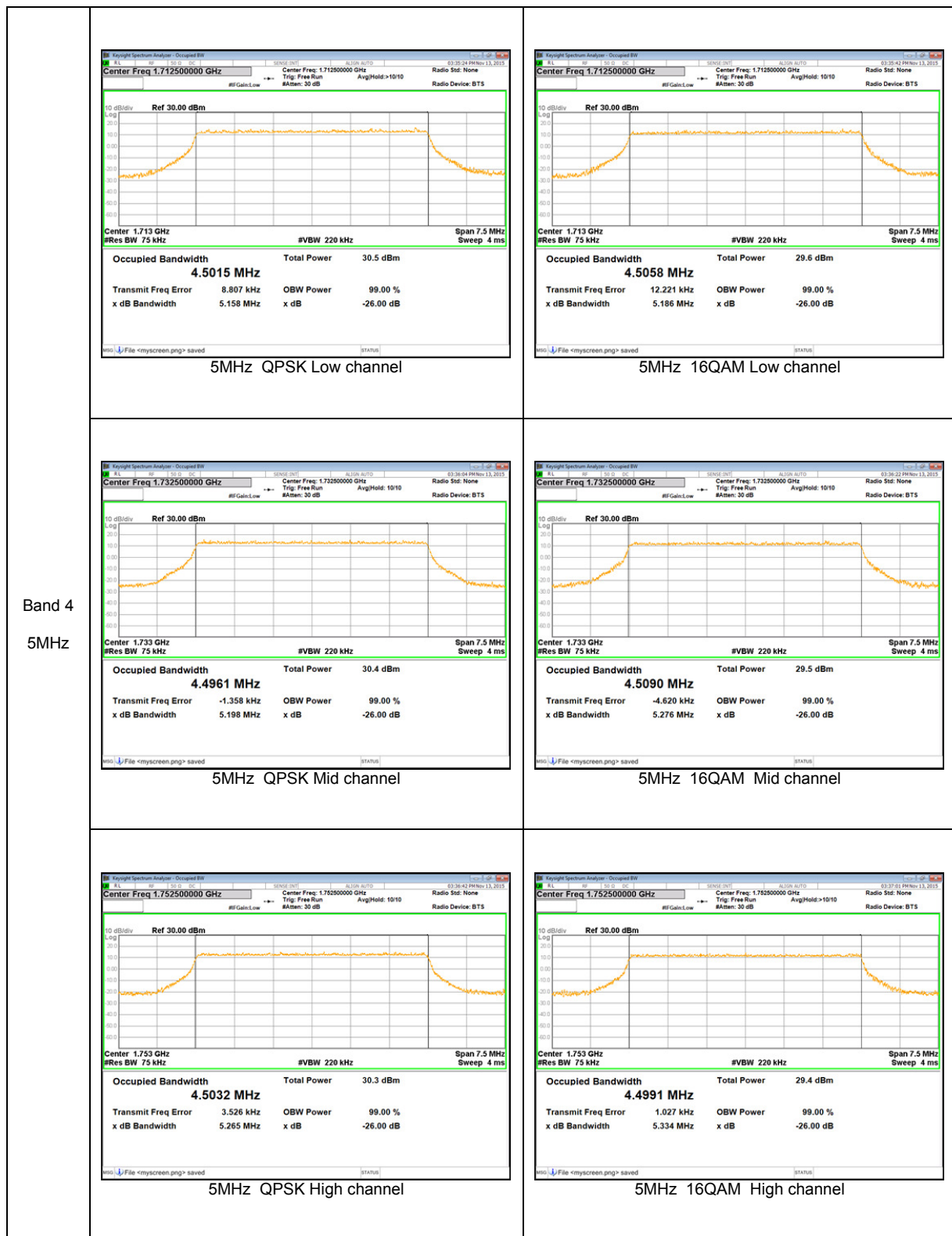


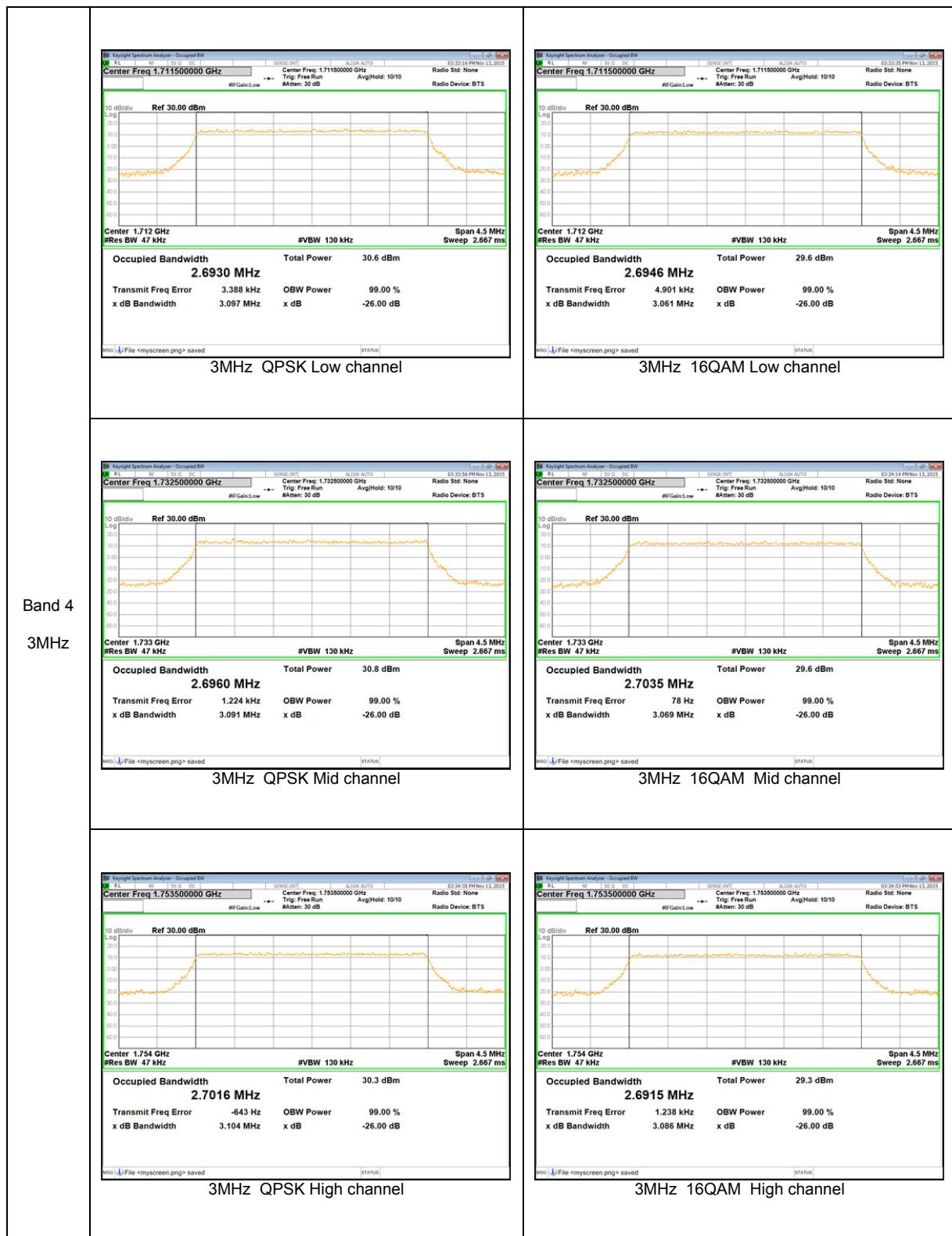
LTE Band 4

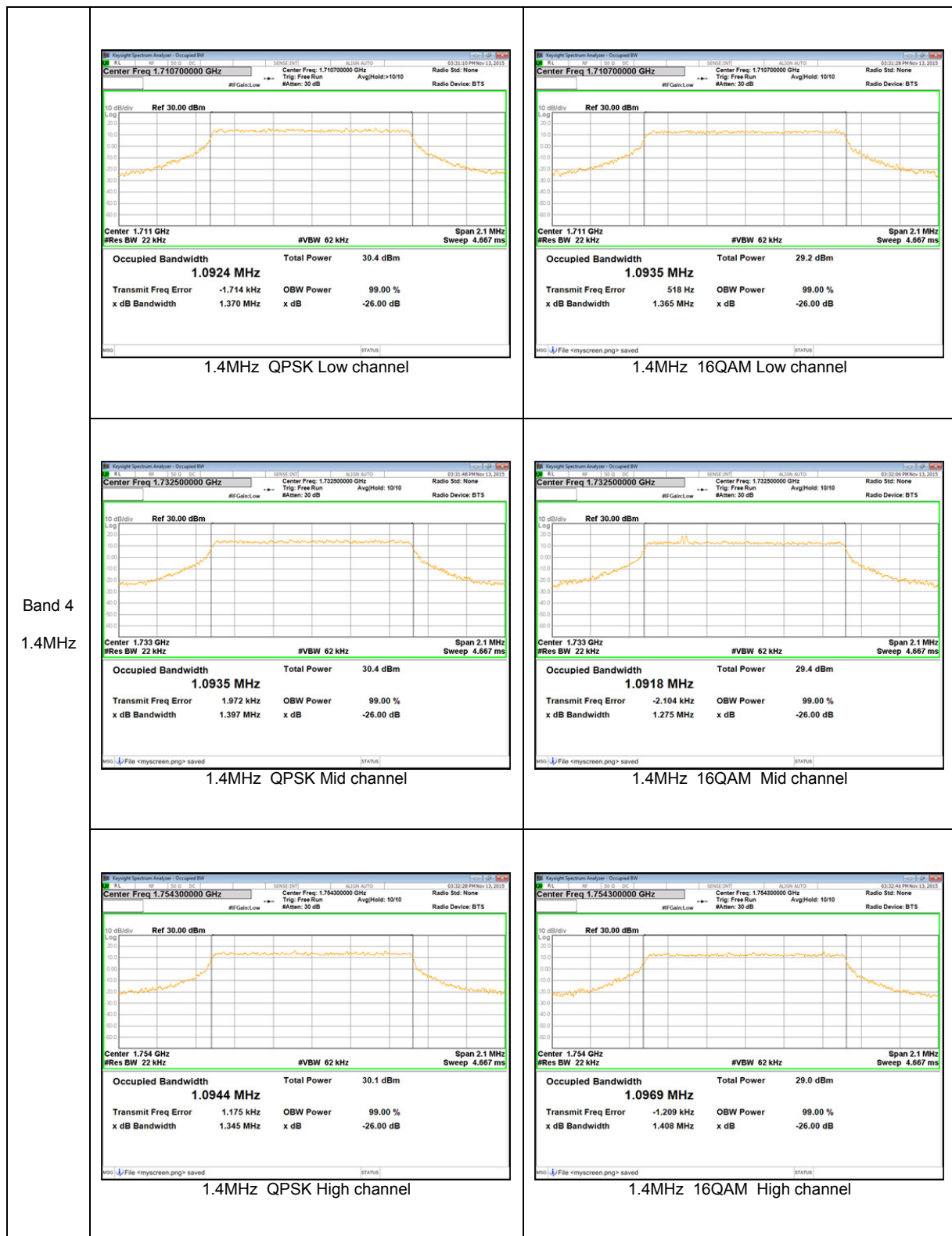




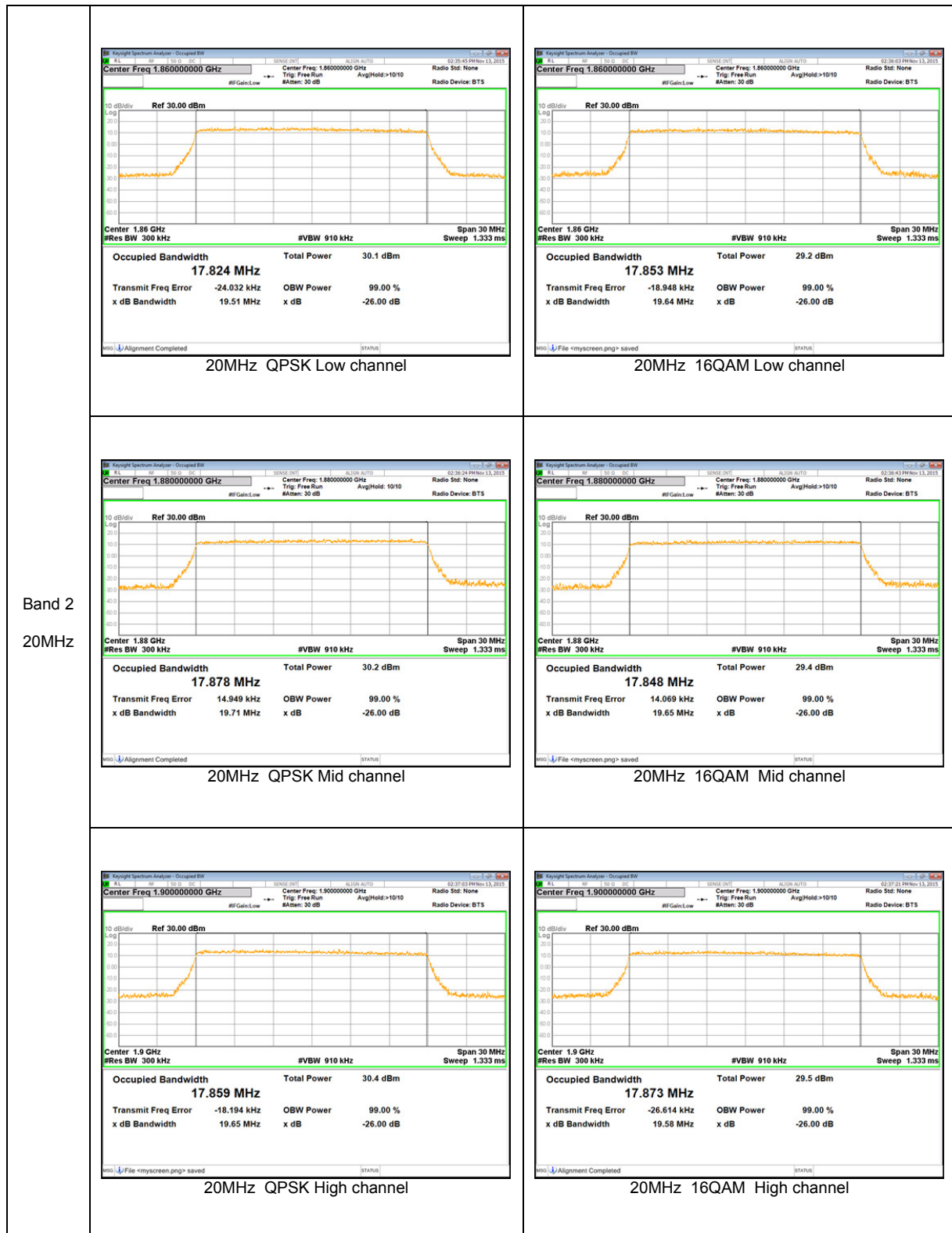


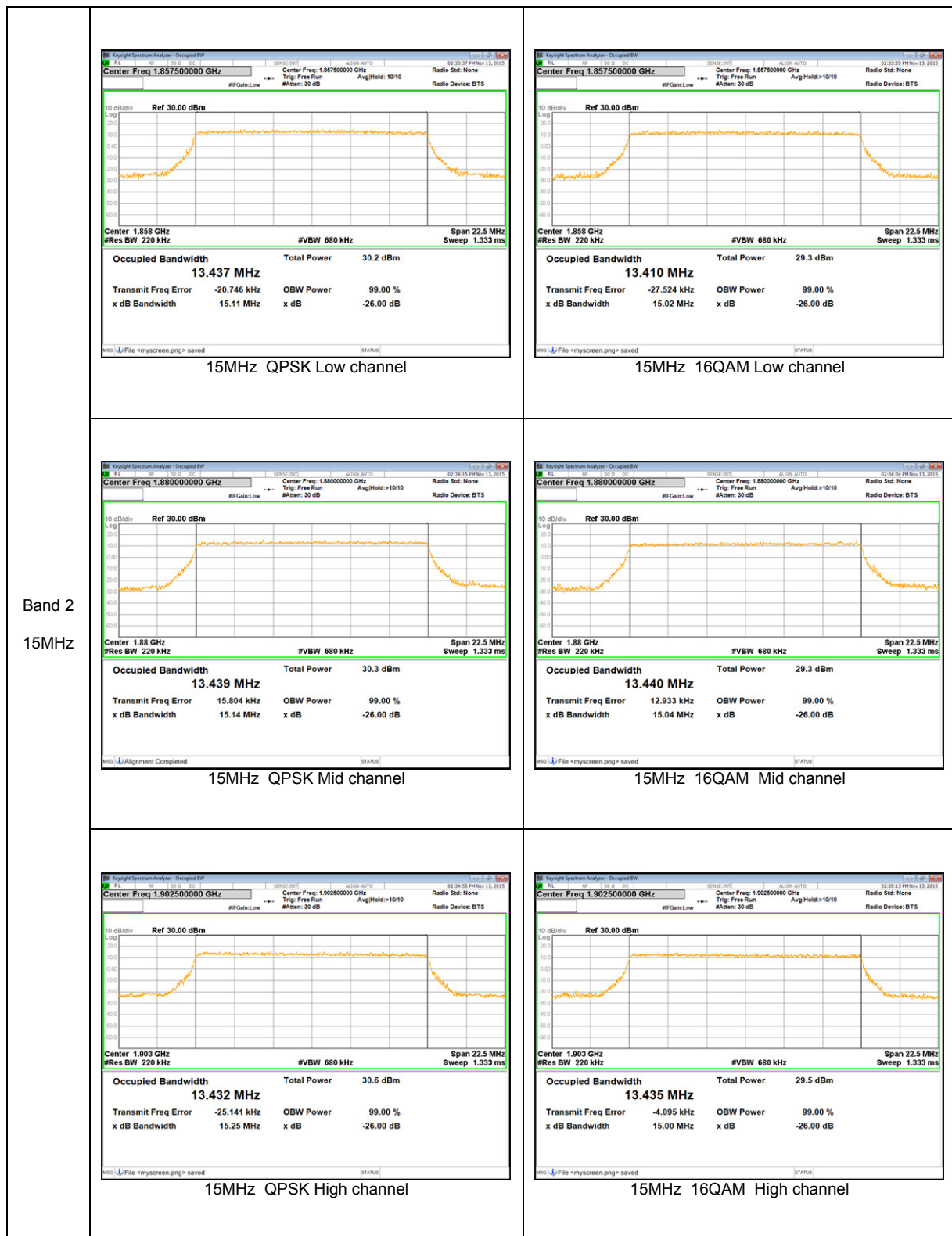


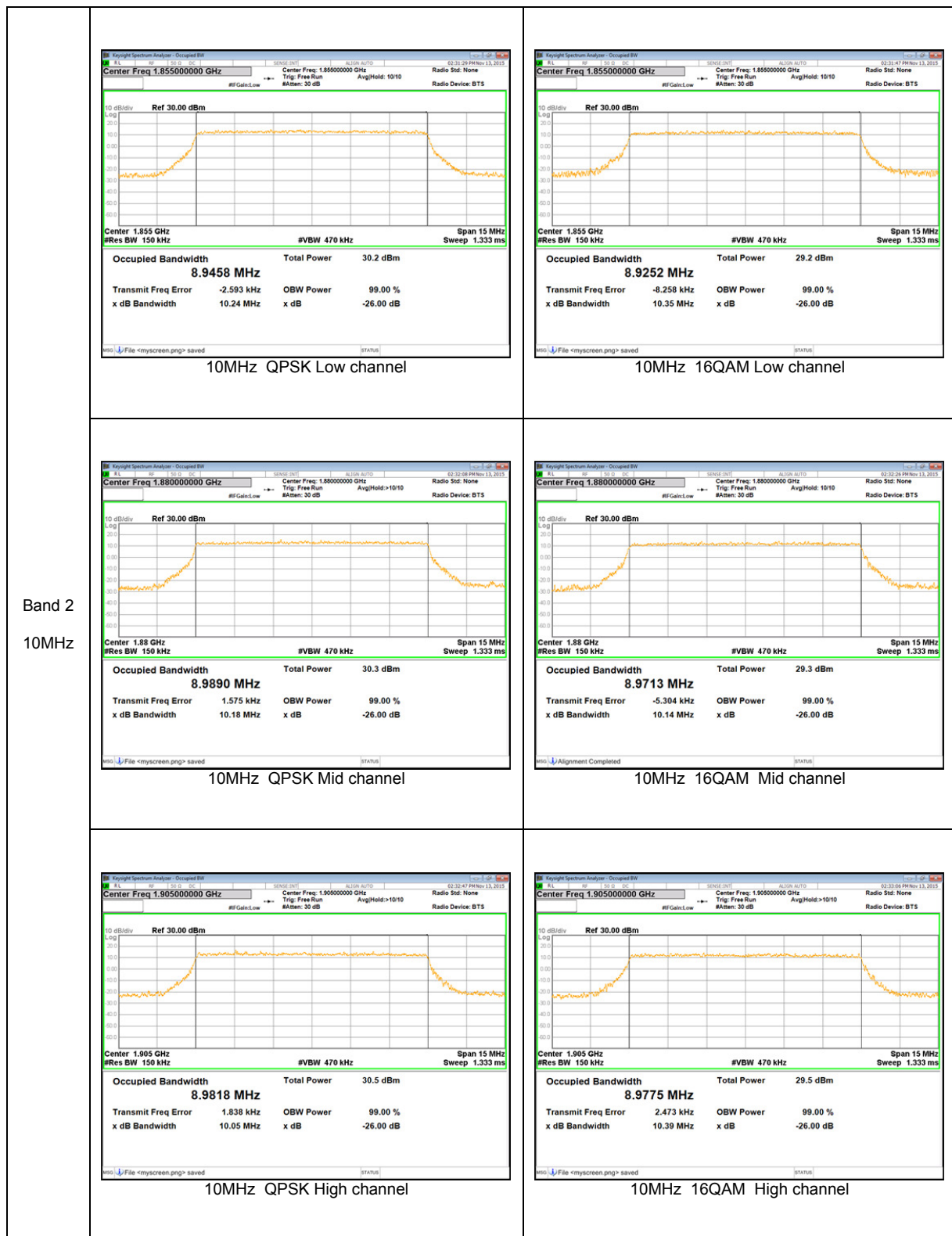


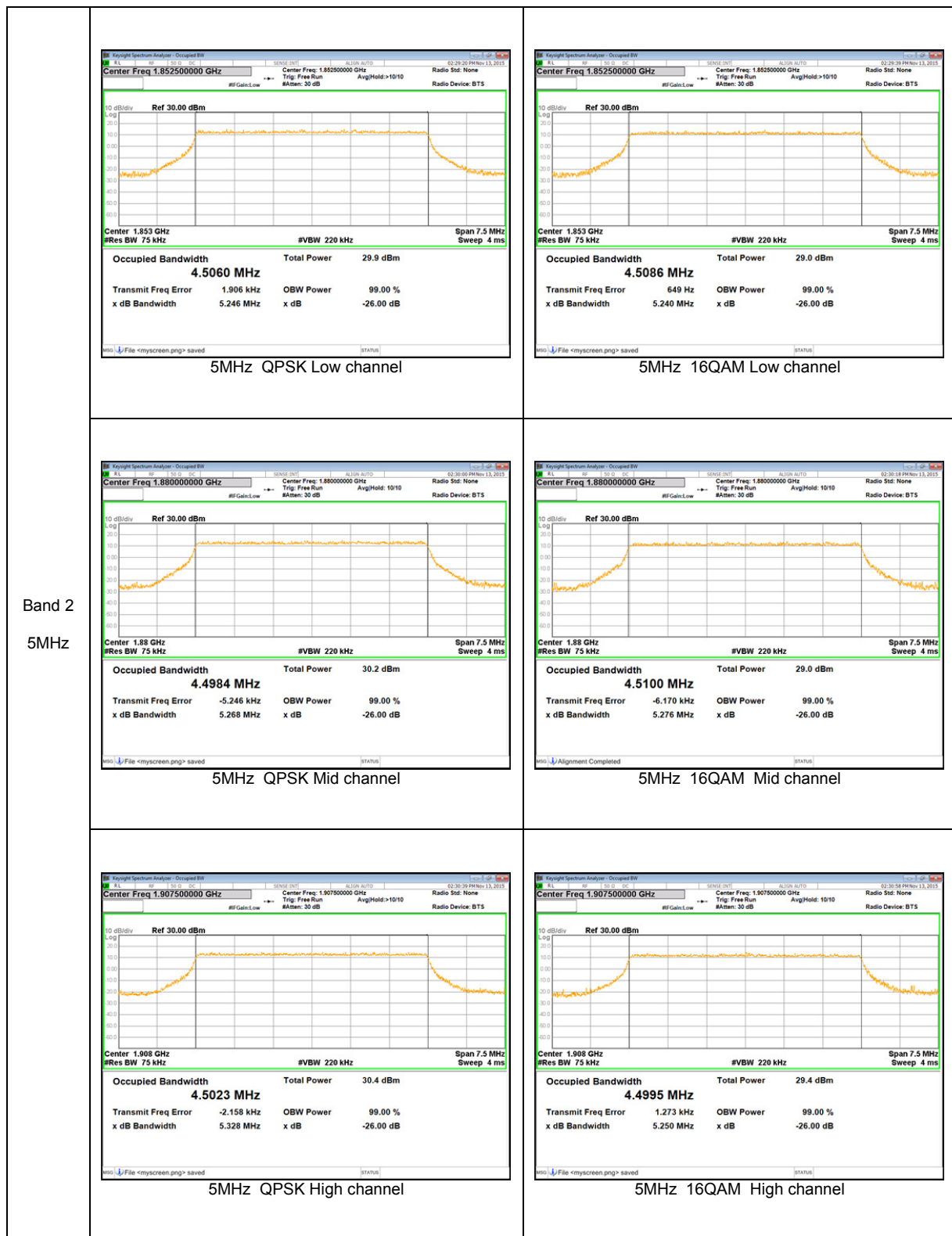


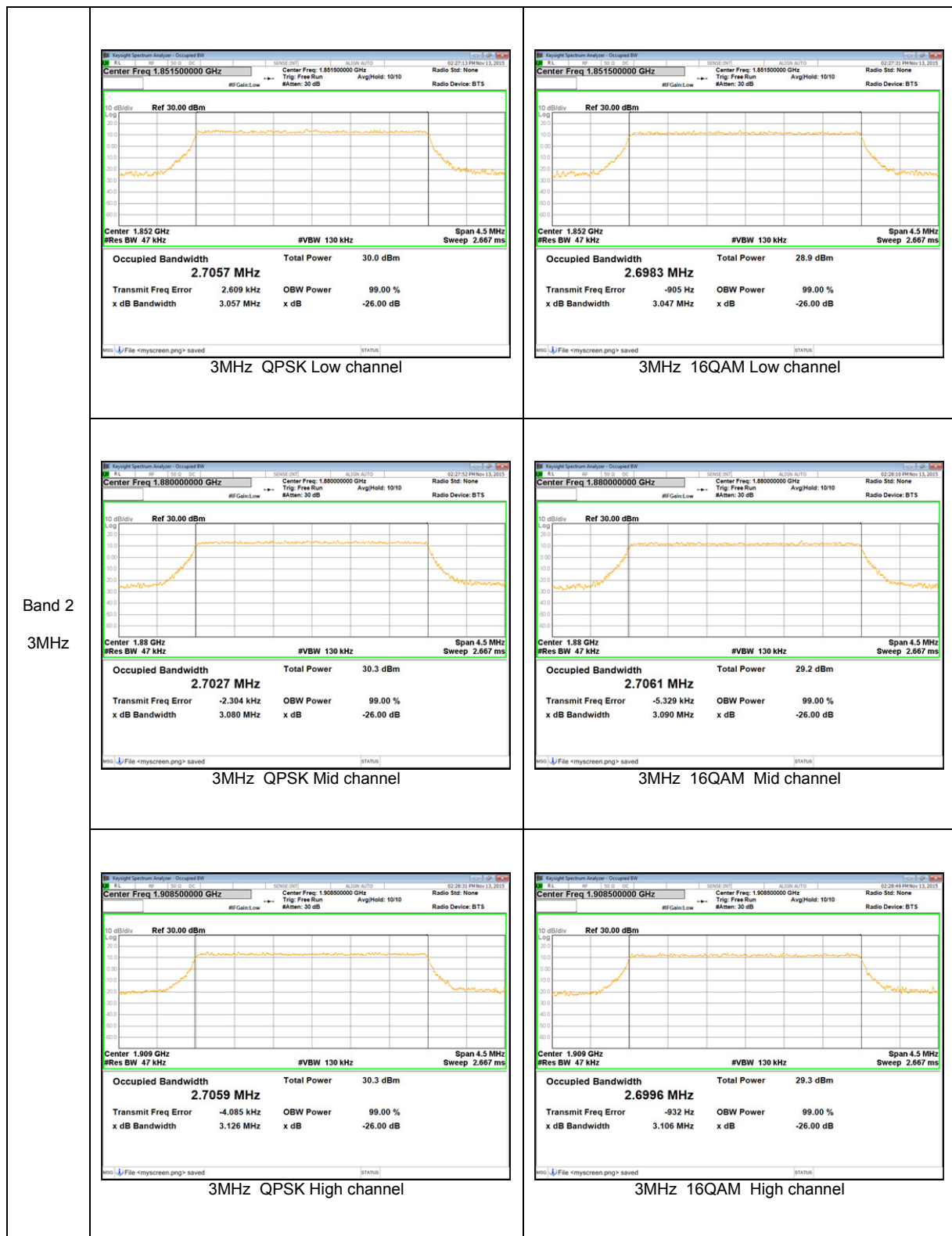
LTE Band 2

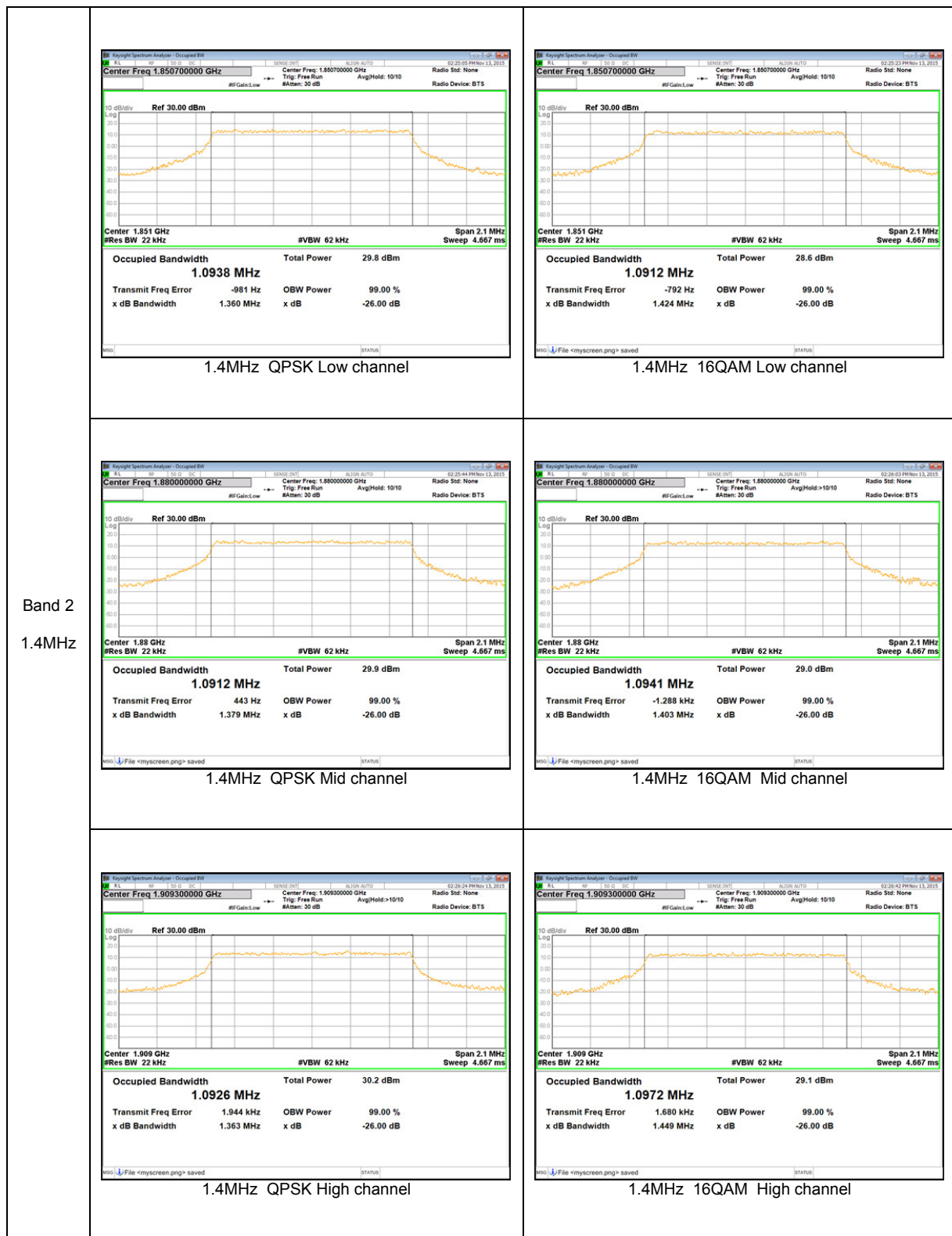












10.2. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §22.359, §24.238 and §27.53

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

RESULTS

GSM

Band	Mode	Side	f [MHz]	Level [dBm]	Limit [dBm]
GSM850	GPRS	Lower	823.982	-15.026	-13.00
		Upper	849.023	-14.630	
	EGPRS	Lower	823.977	-24.931	
		Upper	849.013	-24.029	
GSM1900	GPRS	Lower	1849.892	-17.669	
		Upper	1910.000	-15.892	
	EGPRS	Lower	1850.000	-24.117	
		Upper	1910.000	-22.389	

WCDMA

Band	Mode	Side	f [MHz]	Level [dBm]	Limit [dBm]
Band 5	REL99	Lower	824.000	-24.515	-13.00
		Upper	849.000	-26.363	
	HSDPA	Lower	824.000	-28.240	
		Upper	849.000	-28.174	
Band 4	REL99	Lower	1710.000	-25.005	
		Upper	1755.000	-22.990	
	HSDPA	Lower	1710.000	-26.886	
		Upper	1755.000	-22.002	
Band 2	REL99	Lower	1850.000	-24.809	
		Upper	1910.000	-24.351	
	HSDPA	Lower	1850.000	-27.062	
		Upper	1910.000	-25.255	

LTE 17

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
10 MHz	QPSK	Lower	1RB	704.000	-25.520	-13.00
			FRB	704.000	-26.043	
		Upper	1RB	716.000	-22.183	
			FRB	716.000	-24.579	
	16QAM	Lower	1RB	704.000	-26.535	
			FRB	704.000	-27.706	
		Upper	1RB	716.000	-23.427	
			FRB	716.000	-28.359	
5 MHz	QPSK	Lower	1RB	704.000	-19.022	-13.00
			FRB	704.000	-21.802	
		Upper	1RB	716.000	-17.831	
			FRB	716.000	-21.626	
	16QAM	Lower	1RB	704.000	-19.991	
			FRB	704.000	-22.382	
		Upper	1RB	716.000	-21.053	
			FRB	716.000	-24.237	

LTE 5

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
10 MHz	QPSK	Lower	1RB	824.000	-26.276	-13.00
			FRB	824.000	-29.955	
		Upper	1RB	849.000	-24.655	
			FRB	849.000	-32.228	
	16QAM	Lower	1RB	824.000	-26.311	
			FRB	824.000	-29.978	
		Upper	1RB	849.000	-24.248	
			FRB	849.000	-30.197	
5 MHz	QPSK	Lower	1RB	824.000	-19.982	
			FRB	824.000	-24.582	
		Upper	1RB	849.000	-19.563	
			FRB	849.000	-24.083	
	16QAM	Lower	1RB	824.000	-23.298	
			FRB	824.000	-22.335	
		Upper	1RB	849.000	-20.118	
			FRB	849.000	-23.556	
3 MHz	QPSK	Lower	1RB	824.000	-17.264	
			FRB	824.000	-23.689	
		Upper	1RB	849.000	-19.343	
			FRB	849.000	-24.052	
	16QAM	Lower	1RB	824.000	-19.858	
			FRB	824.000	-25.300	
		Upper	1RB	849.000	-17.970	
			FRB	849.000	-23.716	
1.4 MHz	QPSK	Lower	1RB	824.000	-22.929	
			FRB	824.000	-22.044	
		Upper	1RB	849.000	-23.460	
			FRB	849.000	-24.184	
	16QAM	Lower	1RB	824.000	-25.797	
			FRB	824.000	-23.056	
		Upper	1RB	849.000	-23.553	
			FRB	849.000	-23.700	

LTE 4

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
20 MHz	QPSK	Lower	1RB	1710.000	-34.115	-13.00
			FRB	1710.000	-32.410	
		Upper	1RB	1755.000	-29.920	
			FRB	1755.000	-28.840	
	16QAM	Lower	1RB	1710.000	-35.811	
			FRB	1710.000	-35.223	
		Upper	1RB	1755.000	-27.834	
			FRB	1755.000	-32.356	
15 MHz	QPSK	Lower	1RB	1710.000	-20.699	
			FRB	1710.000	-30.353	
		Upper	1RB	1755.000	-20.894	
			FRB	1755.000	-27.828	
	16QAM	Lower	1RB	1710.000	-21.696	
			FRB	1710.000	-30.571	
		Upper	1RB	1755.000	-23.277	
			FRB	1755.000	-28.309	
10 MHz	QPSK	Lower	1RB	1710.000	-24.010	
			FRB	1710.000	-29.165	
		Upper	1RB	1755.000	-23.585	
			FRB	1755.000	-26.347	
	16QAM	Lower	1RB	1710.000	-26.133	
			FRB	1710.000	-29.167	
		Upper	1RB	1755.000	-23.950	
			FRB	1755.000	-29.481	
5 MHz	QPSK	Lower	1RB	1710.000	-19.904	
			FRB	1710.000	-23.154	
		Upper	1RB	1755.000	-17.815	
			FRB	1755.000	-21.229	
	16QAM	Lower	1RB	1710.000	-20.530	
			FRB	1710.000	-24.544	
		Upper	1RB	1755.000	-19.437	
			FRB	1755.000	-24.334	

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
3 MHz	QPSK	Lower	1RB	1710.000	-16.590	-13.00
			FRB	1710.000	-23.950	
		Upper	1RB	1755.000	-15.757	
			FRB	1755.000	-21.920	
	16QAM	Lower	1RB	1710.000	-18.259	
			FRB	1710.000	-24.525	
		Upper	1RB	1755.000	-17.221	
			FRB	1755.000	-22.983	
1.4 MHz	QPSK	Lower	1RB	1710.000	-21.824	-13.00
			FRB	1710.000	-21.890	
		Upper	1RB	1755.000	-21.670	
			FRB	1755.000	-22.510	
	16QAM	Lower	1RB	1710.000	-24.697	
			FRB	1710.000	-23.447	
		Upper	1RB	1755.000	-23.671	
			FRB	1755.000	-23.784	

LTE 2

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
20 MHz	QPSK	Lower	1RB	1850.000	-33.557	-13.00
			FRB	1850.000	-33.436	
		Upper	1RB	1910.000	-27.513	
			FRB	1910.000	-32.373	
	16QAM	Lower	1RB	1850.000	-32.113	
			FRB	1850.000	-34.903	
		Upper	1RB	1910.000	-26.321	
			FRB	1910.000	-33.560	
15 MHz	QPSK	Lower	1RB	1850.000	-23.061	-13.00
			FRB	1850.000	-31.353	
		Upper	1RB	1910.000	-20.841	
			FRB	1910.000	-26.576	
	16QAM	Lower	1RB	1850.000	-24.739	
			FRB	1850.000	-33.366	
		Upper	1RB	1910.000	-23.849	
			FRB	1910.000	-30.230	

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
10 MHz	QPSK	Lower	1RB	1850.000	-25.115	-13.00
			FRB	1850.000	-31.210	
		Upper	1RB	1910.000	-22.708	
			FRB	1910.000	-24.795	
	16QAM	Lower	1RB	1850.000	-27.510	
			FRB	1850.000	-31.227	
		Upper	1RB	1910.000	-22.034	
			FRB	1910.000	-30.113	
5 MHz	QPSK	Lower	1RB	1850.000	-21.147	
			FRB	1850.000	-23.516	
		Upper	1RB	1910.000	-17.956	
			FRB	1910.000	-22.996	
	16QAM	Lower	1RB	1850.000	-21.456	
			FRB	1850.000	-24.103	
		Upper	1RB	1910.000	-20.736	
			FRB	1910.000	-23.924	
3 MHz	QPSK	Lower	1RB	1850.000	-16.934	
			FRB	1850.000	-24.918	
		Upper	1RB	1910.000	-14.658	
			FRB	1910.000	-24.185	
	16QAM	Lower	1RB	1850.000	-20.278	
			FRB	1850.000	-25.131	
		Upper	1RB	1910.000	-15.441	
			FRB	1910.000	-25.367	
1.4 MHz	QPSK	Lower	1RB	1850.000	-22.335	
			FRB	1850.000	-22.614	
		Upper	1RB	1910.000	-19.793	
			FRB	1910.000	-22.497	
	16QAM	Lower	1RB	1850.000	-24.457	
			FRB	1850.000	-24.213	
		Upper	1RB	1910.000	-22.334	
			FRB	1910.000	-23.608	

10.2.1. BAND EDGE PLOTS

GSM

