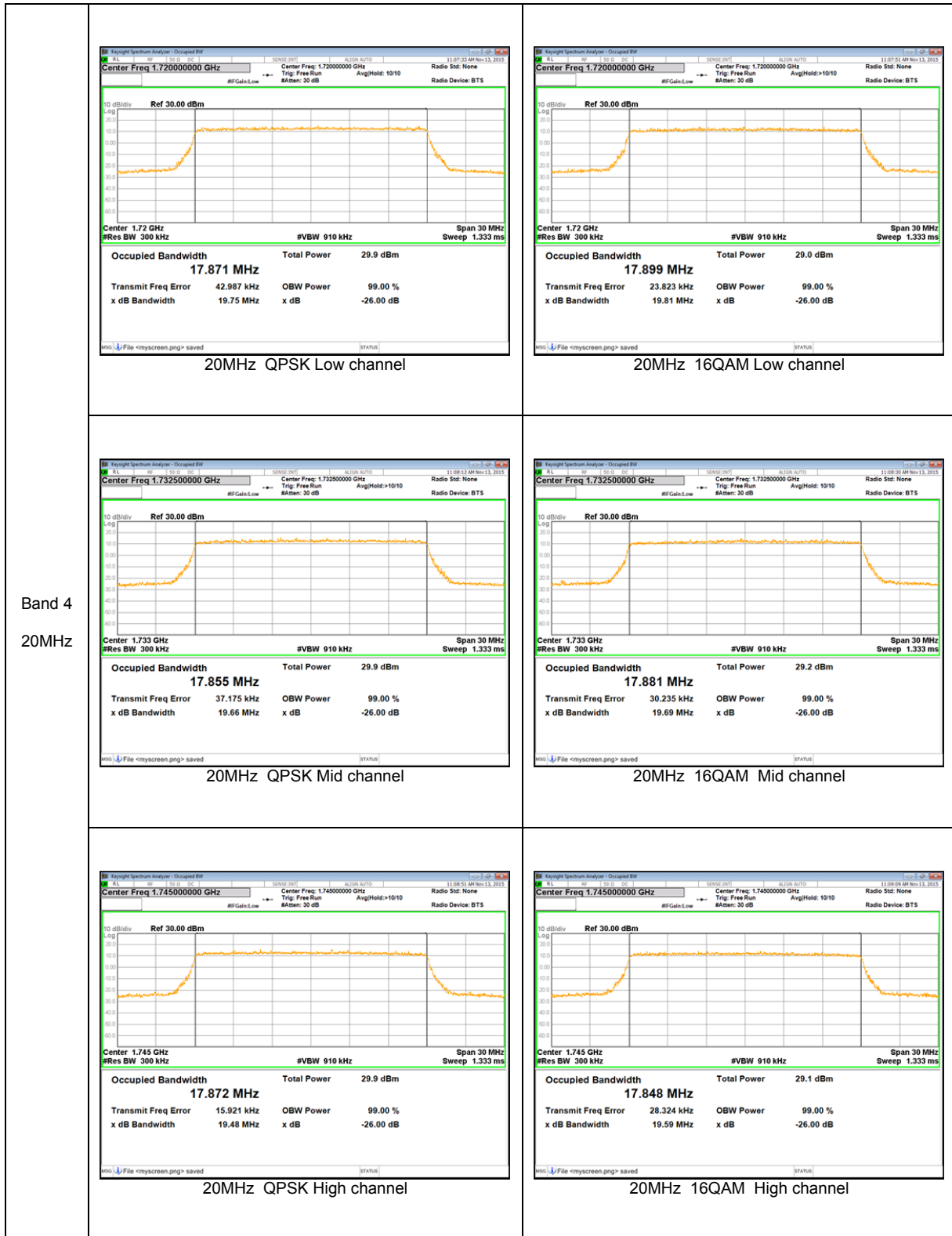
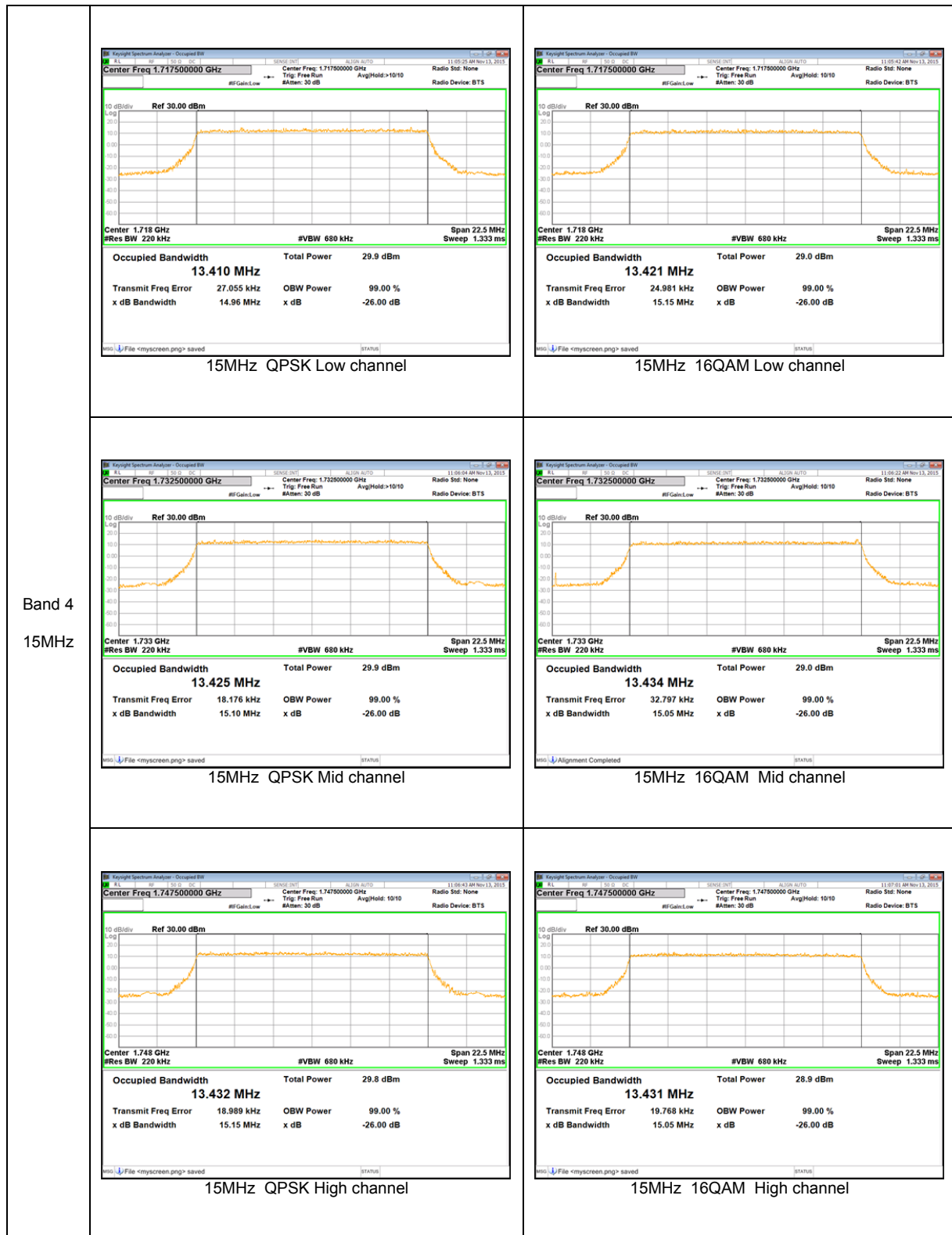
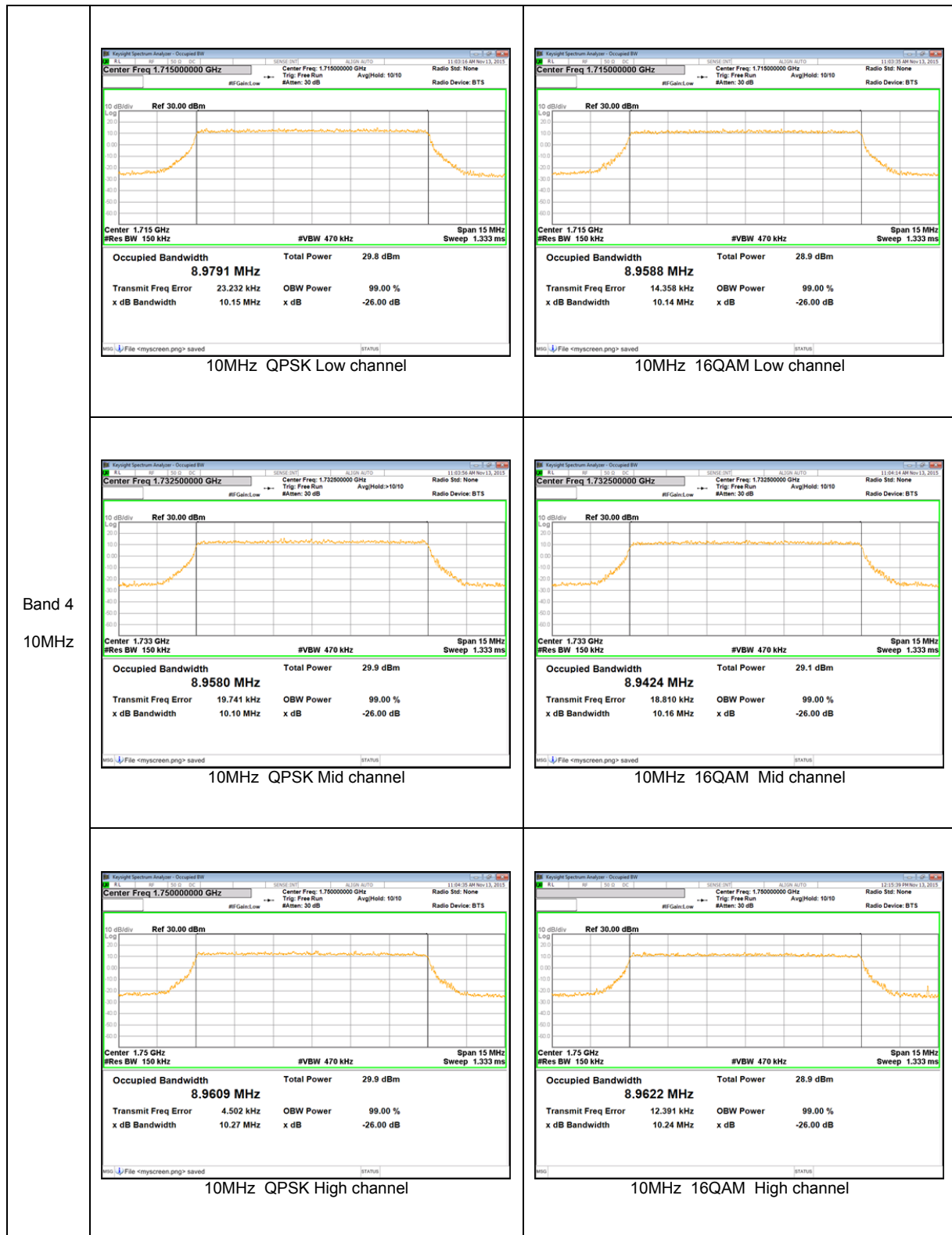
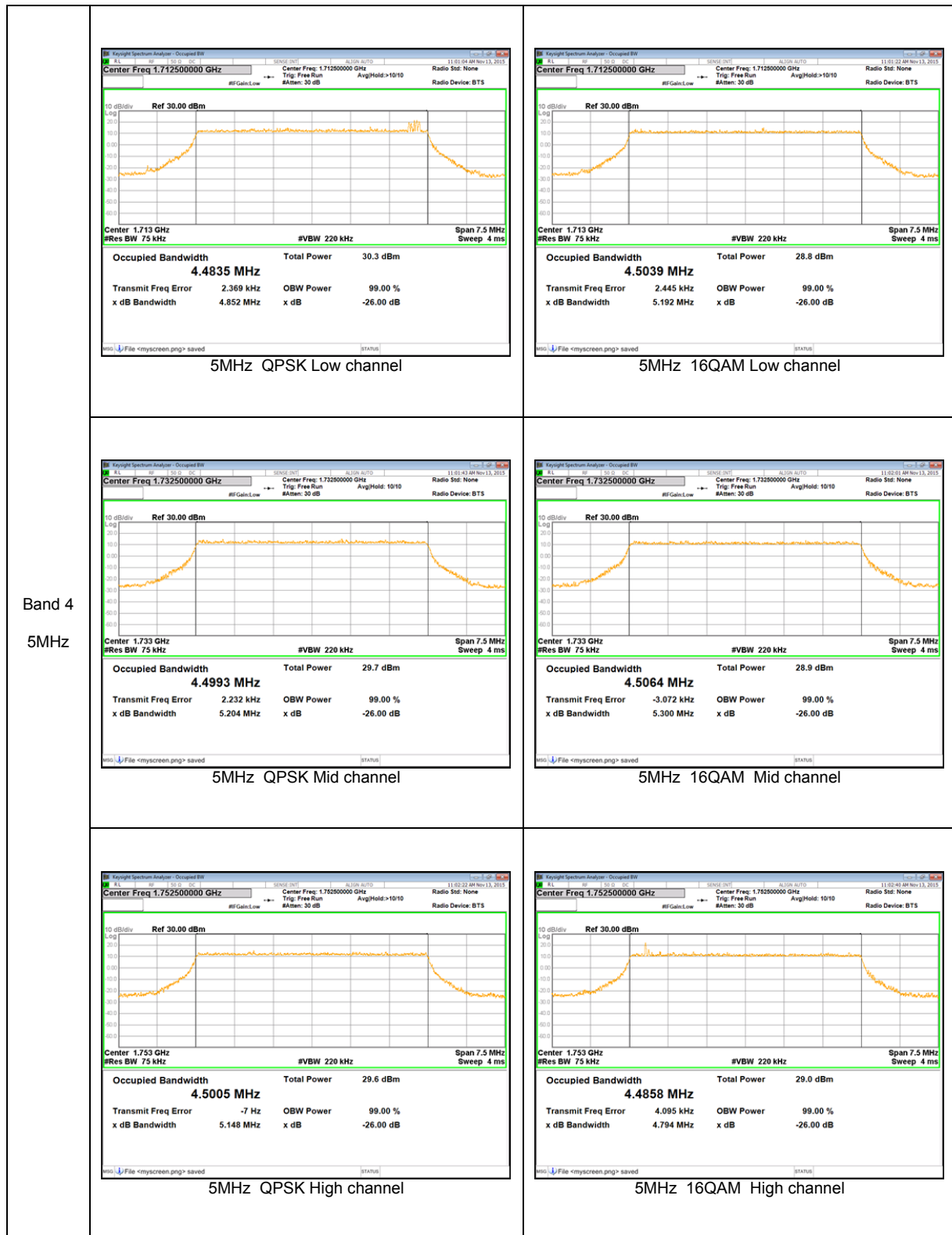


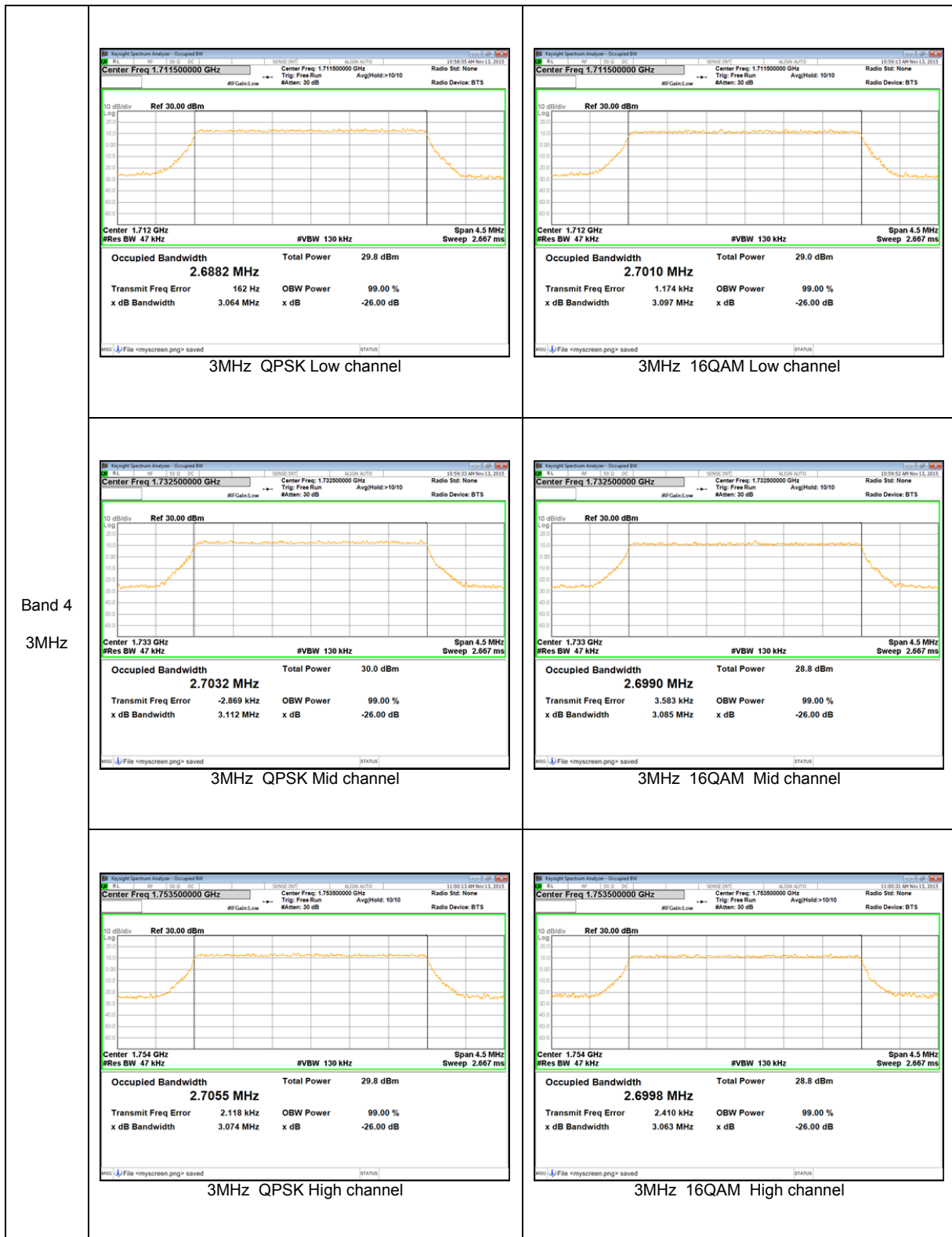
LTE Band 4

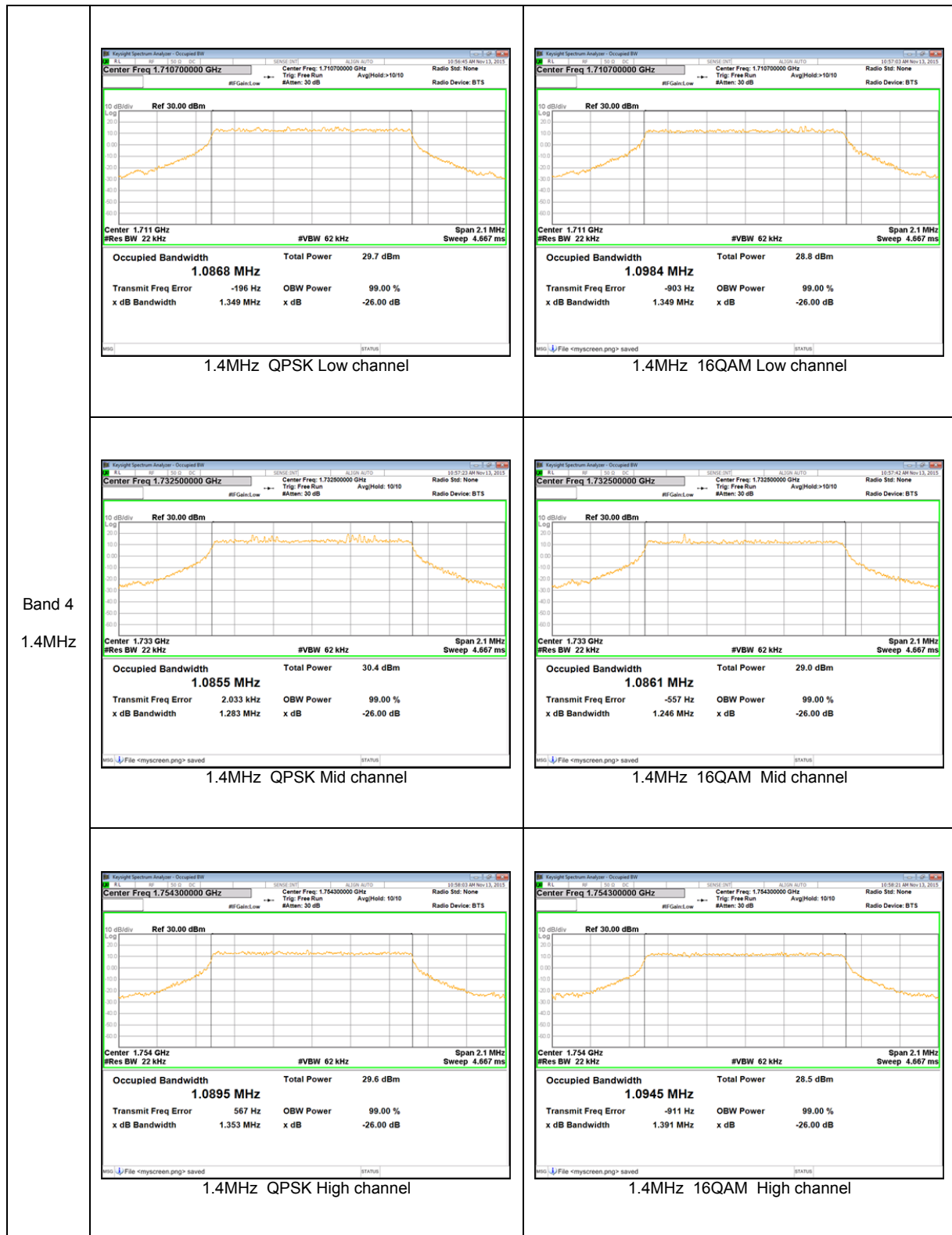




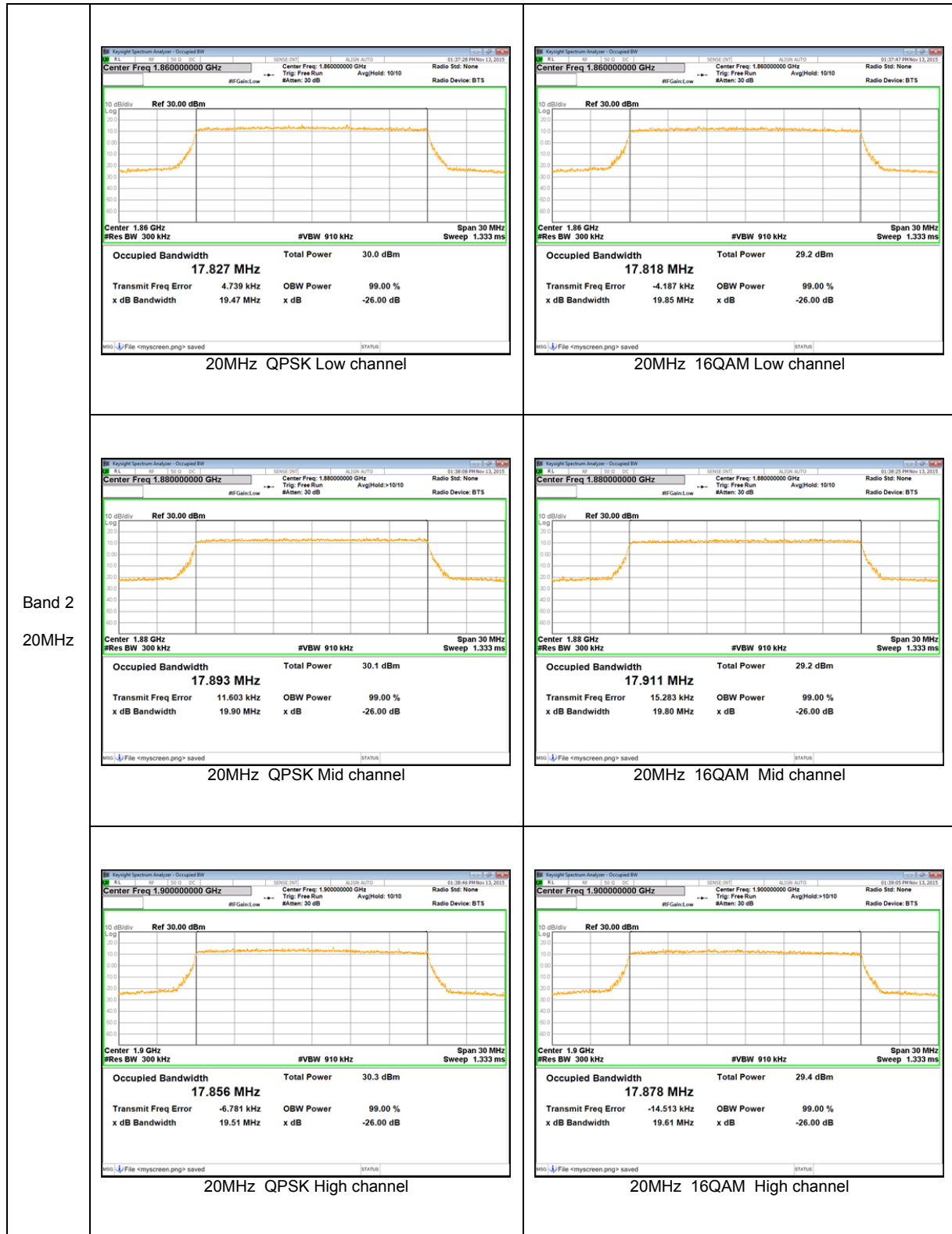


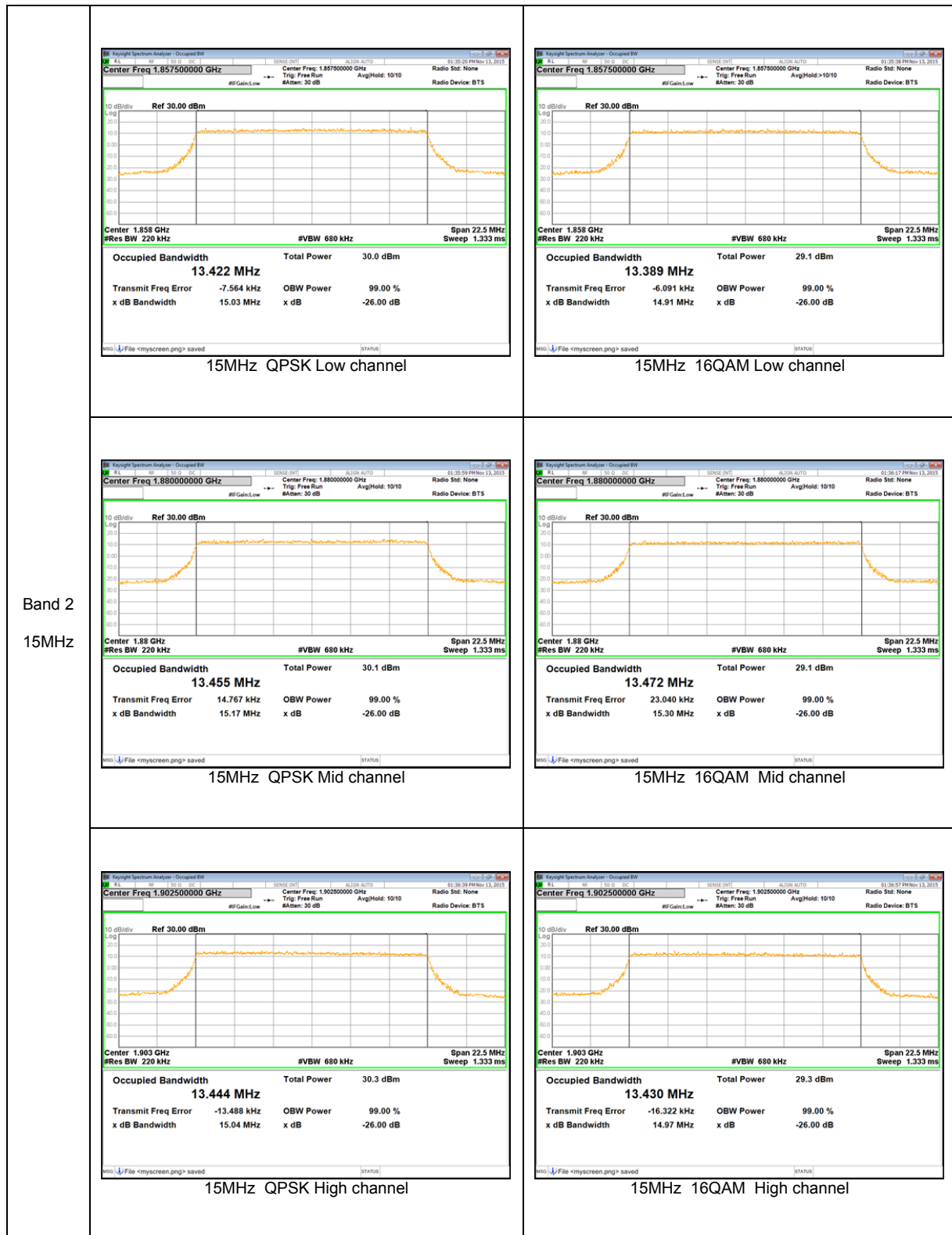


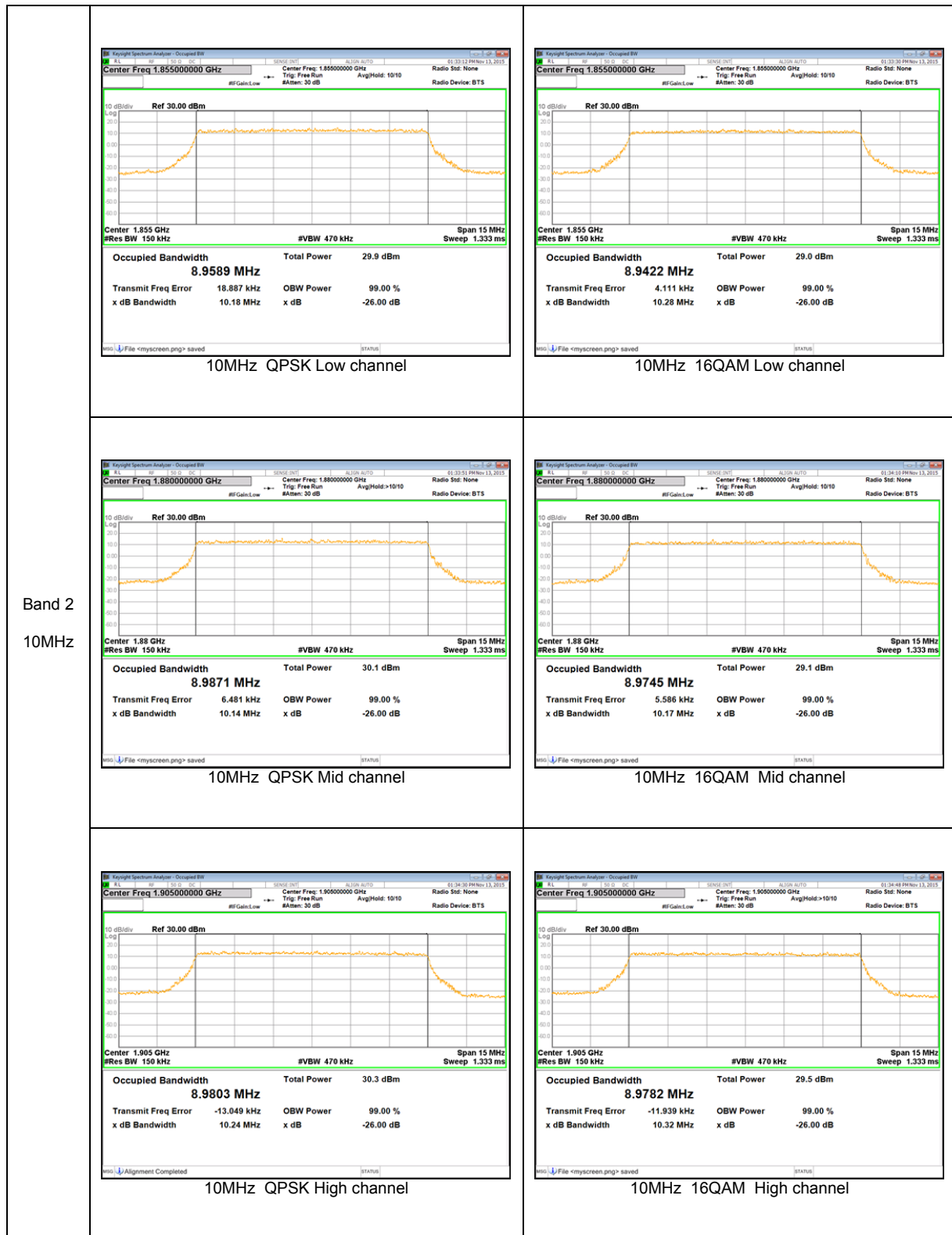


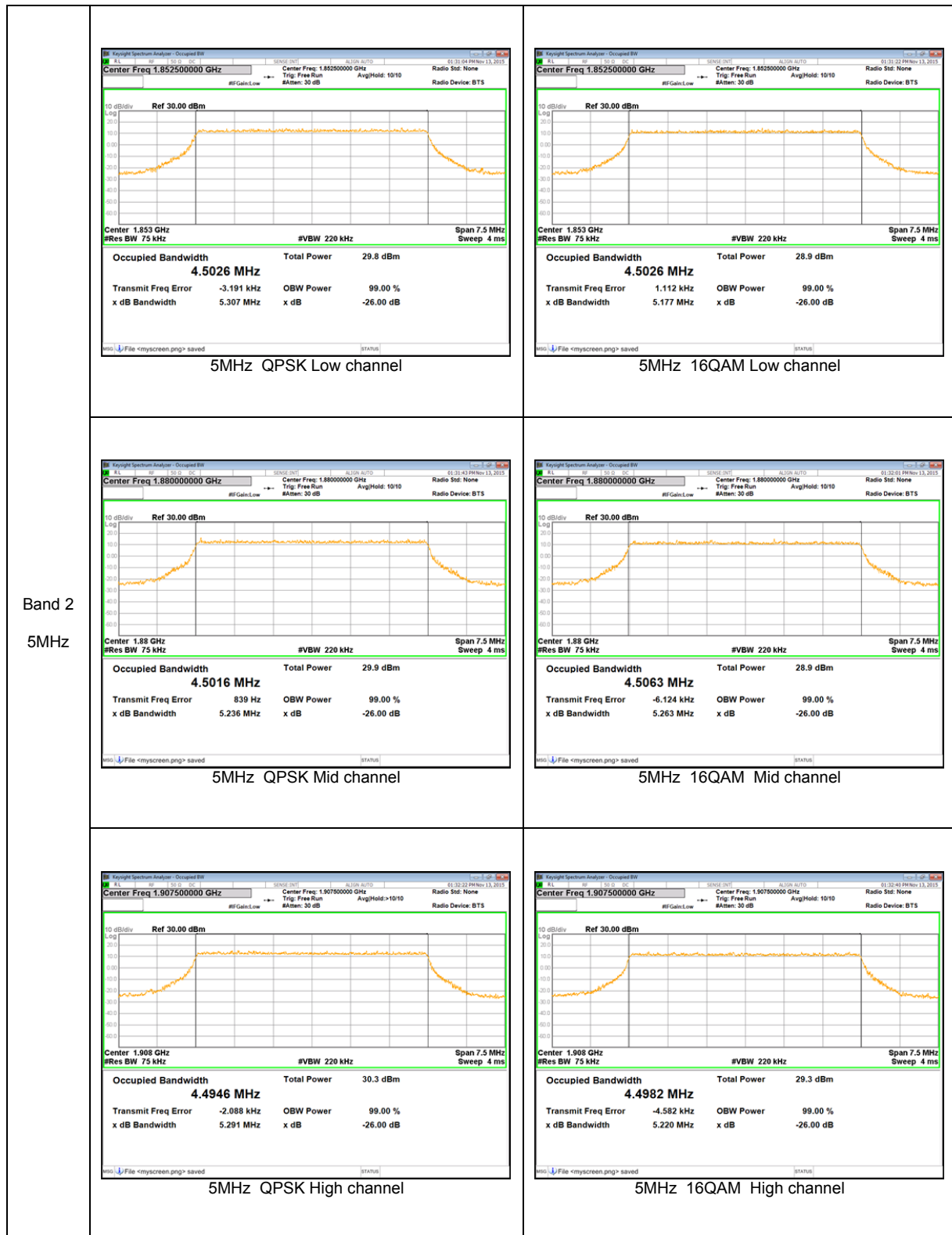


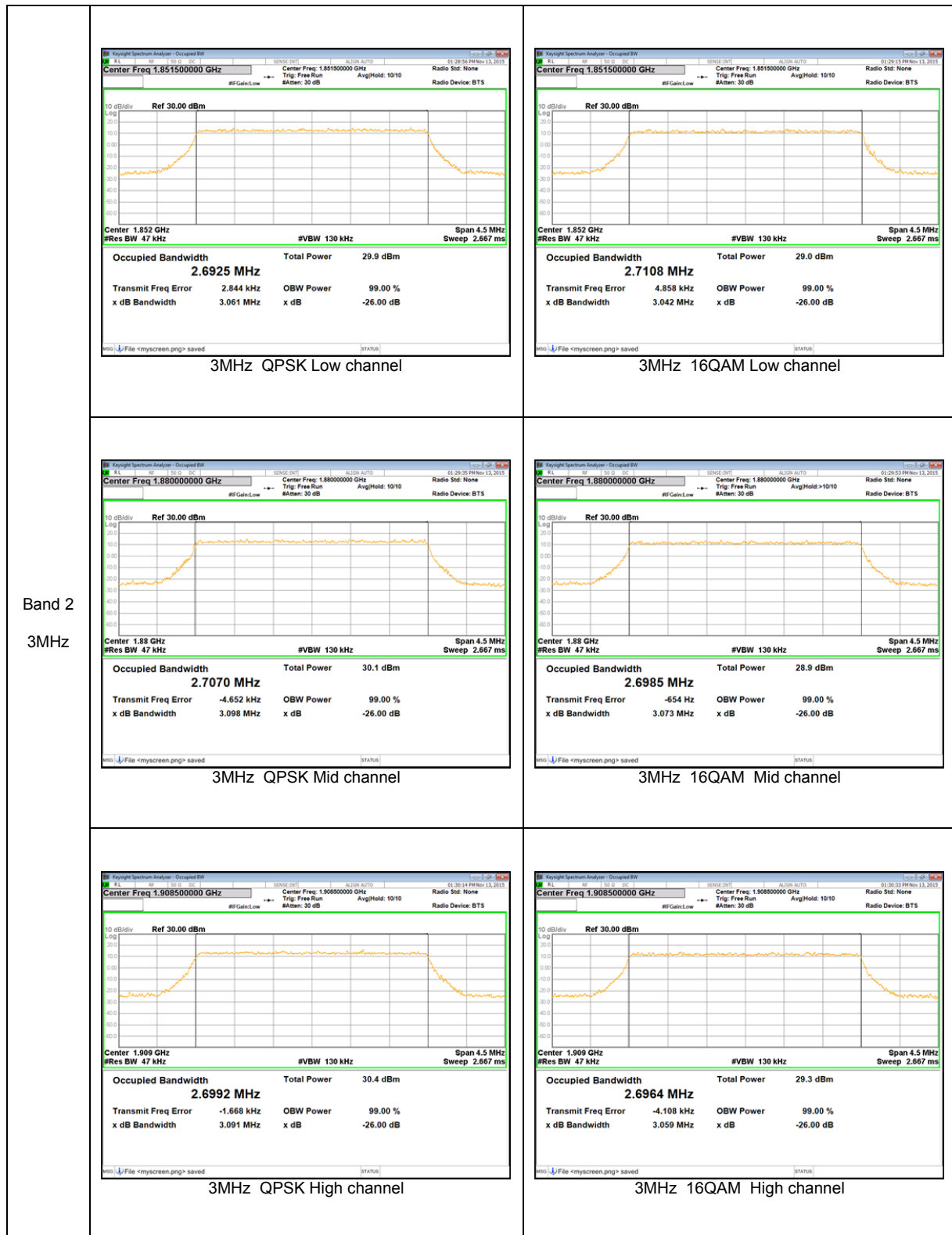
LTE Band 2

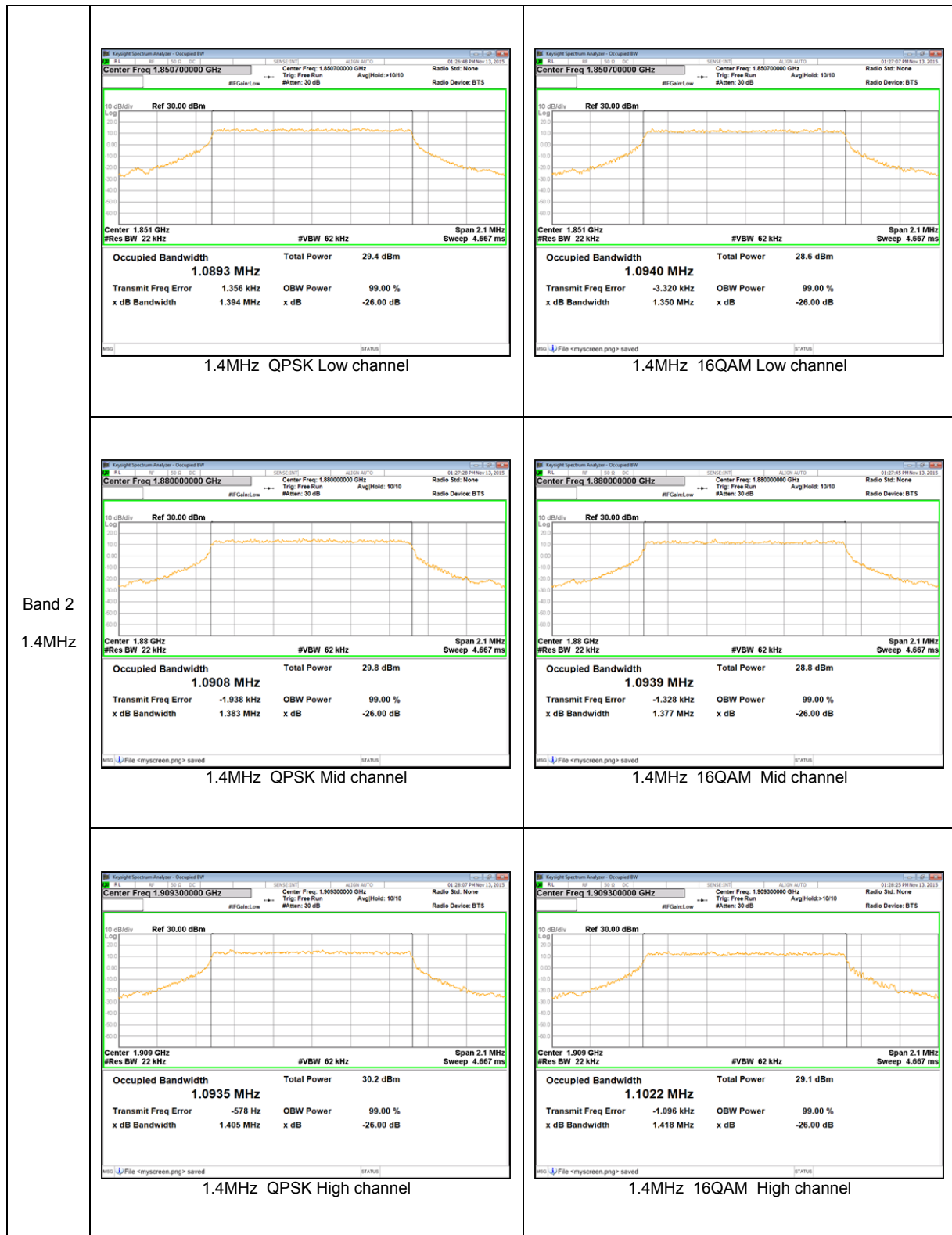












10.2. BAND EDGE EMISSIONS

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	-15.735	-13.00
		Upper	849.023	-15.204	
	EGPRS	Lower	823.992	-23.676	
		Upper	849.018	-23.638	
GSM1900	GPRS	Lower	1849.982	-16.155	
		Upper	1910.023	-16.294	
	EGPRS	Lower	1849.972	-23.137	
		Upper	1910.018	-22.096	

WCDMA

Band	Mode	Side	f [MHz]	Level [dBm]	Limit [dBm]
Band 5	REL99	Lower	824.000	-24.179	-13.00
		Upper	849.000	-25.325	
	HSDPA	Lower	824.000	-27.695	
		Upper	849.000	-28.130	
Band 4	REL99	Lower	1710.000	-25.642	
		Upper	1755.000	-25.247	
	HSDPA	Lower	1710.000	-26.001	
		Upper	1755.000	-25.529	
Band 2	REL99	Lower	1850.000	-24.563	
		Upper	1910.000	-23.768	
	HSDPA	Lower	1850.000	-26.613	
		Upper	1910.000	-25.858	

LTE 17

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
10 MHz	QPSK	Lower	1RB	704.000	-28.210	-13.00
			FRB	704.000	-27.675	
		Upper	1RB	716.000	-24.393	
			FRB	716.000	-25.353	
	16QAM	Lower	1RB	704.000	-32.413	
			FRB	704.000	-29.554	
		Upper	1RB	716.000	-26.558	
			FRB	716.000	-31.380	
5 MHz	QPSK	Lower	1RB	704.000	-22.621	
			FRB	704.000	-22.446	
		Upper	1RB	716.000	-22.115	
			FRB	716.000	-23.827	
	16QAM	Lower	1RB	704.000	-21.356	
			FRB	704.000	-24.609	
		Upper	1RB	716.000	-21.728	
			FRB	716.000	-25.133	

LTE 5

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
10 MHz	QPSK	Lower	1RB	824.000	-27.693	-13.00
			FRB	824.000	-24.652	
		Upper	1RB	849.000	-27.282	
			FRB	849.000	-27.494	
	16QAM	Lower	1RB	824.000	-30.073	
			FRB	824.000	-25.809	
		Upper	1RB	849.000	-27.901	
			FRB	849.000	-31.468	
5 MHz	QPSK	Lower	1RB	824.000	-20.874	
			FRB	824.000	-25.020	
		Upper	1RB	849.000	-18.704	
			FRB	849.000	-26.814	
	16QAM	Lower	1RB	824.000	-21.674	
			FRB	824.000	-24.489	
		Upper	1RB	849.000	-19.127	
			FRB	849.000	-23.667	
3 MHz	QPSK	Lower	1RB	824.000	-15.975	
			FRB	824.000	-24.340	
		Upper	1RB	849.000	-17.542	
			FRB	849.000	-23.771	
	16QAM	Lower	1RB	824.000	-17.974	
			FRB	824.000	-25.049	
		Upper	1RB	849.000	-19.717	
			FRB	849.000	-23.017	
1.4 MHz	QPSK	Lower	1RB	824.000	-22.263	
			FRB	824.000	-23.247	
		Upper	1RB	849.000	-22.083	
			FRB	849.000	-24.180	
	16QAM	Lower	1RB	824.000	-23.962	
			FRB	824.000	-22.925	
		Upper	1RB	849.000	-25.683	
			FRB	849.000	-24.309	

LTE 4

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
20 MHz	QPSK	Lower	1RB	1710.000	-33.188	-13.00
			FRB	1710.000	-30.553	
		Upper	1RB	1755.000	-26.473	
			FRB	1755.000	-30.819	
	16QAM	Lower	1RB	1710.000	-35.113	
			FRB	1710.000	-31.602	
		Upper	1RB	1755.000	-33.945	
			FRB	1755.000	-30.707	
15 MHz	QPSK	Lower	1RB	1710.000	-26.285	-13.00
			FRB	1710.000	-31.541	
		Upper	1RB	1755.000	-19.800	
			FRB	1755.000	-26.872	
	16QAM	Lower	1RB	1710.000	-26.190	
			FRB	1710.000	-30.385	
		Upper	1RB	1755.000	-20.492	
			FRB	1755.000	-29.658	
10 MHz	QPSK	Lower	1RB	1710.000	-26.742	-13.00
			FRB	1710.000	-29.821	
		Upper	1RB	1755.000	-24.997	
			FRB	1755.000	-29.798	
	16QAM	Lower	1RB	1710.000	-29.141	
			FRB	1710.000	-29.093	
		Upper	1RB	1755.000	-26.627	
			FRB	1755.000	-29.237	
5 MHz	QPSK	Lower	1RB	1710.000	-21.088	-13.00
			FRB	1710.000	-21.405	
		Upper	1RB	1755.000	-17.050	
			FRB	1755.000	-25.607	
	16QAM	Lower	1RB	1710.000	-20.914	
			FRB	1710.000	-24.855	
		Upper	1RB	1755.000	-22.804	
			FRB	1755.000	-26.461	

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
3 MHz	QPSK	Lower	1RB	1710.000	-17.767	-13.00
			FRB	1710.000	-23.178	
		Upper	1RB	1755.000	-16.308	
			FRB	1755.000	-24.200	
	16QAM	Lower	1RB	1710.000	-18.986	
			FRB	1710.000	-25.216	
		Upper	1RB	1755.000	-19.302	
			FRB	1755.000	-24.502	
1.4 MHz	QPSK	Lower	1RB	1710.000	-22.567	-13.00
			FRB	1710.000	-22.553	
		Upper	1RB	1755.000	-20.086	
			FRB	1755.000	-23.597	
	16QAM	Lower	1RB	1710.000	-26.514	
			FRB	1710.000	-24.630	
		Upper	1RB	1755.000	-25.005	
			FRB	1755.000	-24.205	

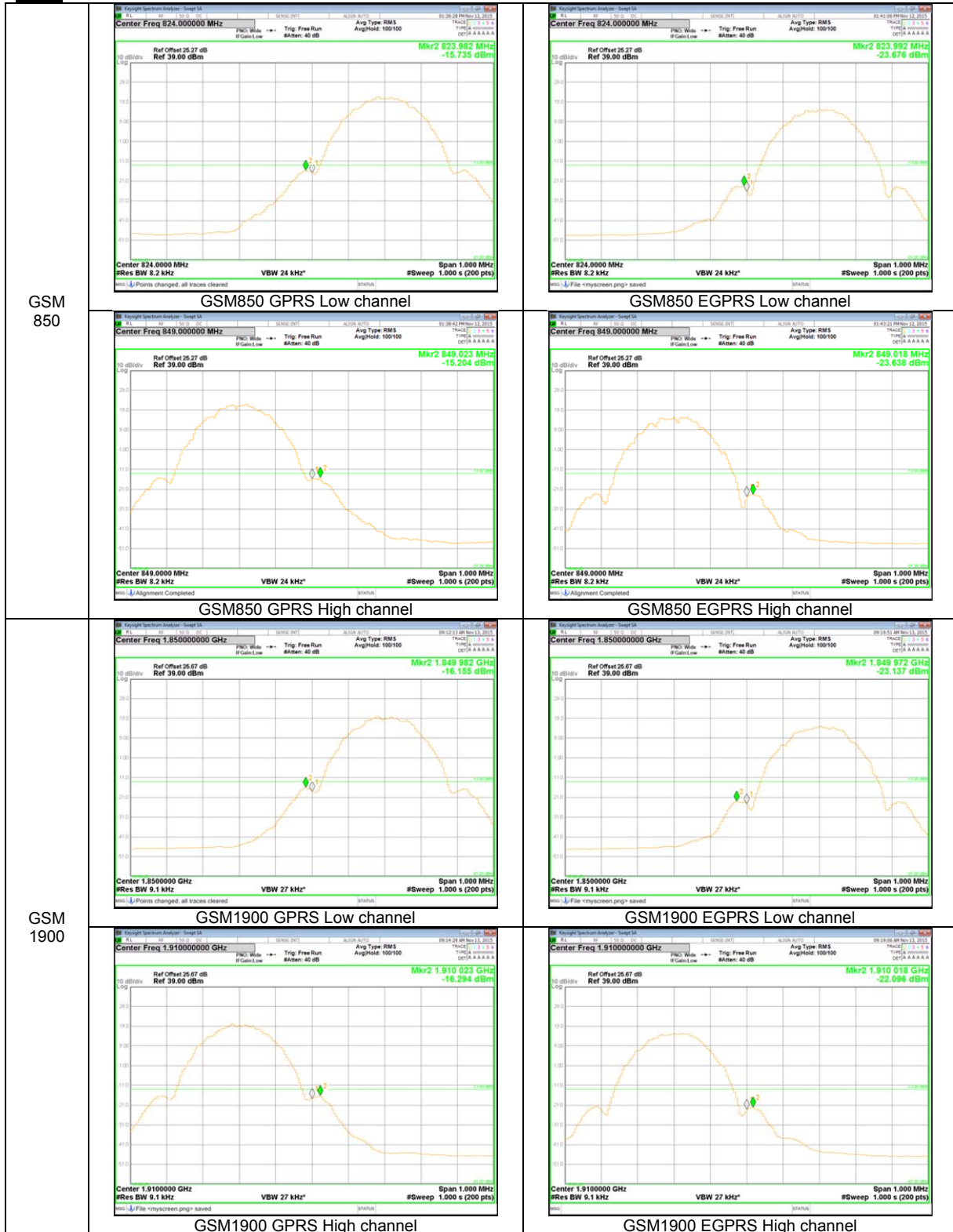
LTE 2

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
20 MHz	QPSK	Lower	1RB	1850.000	-27.951	-13.00
			FRB	1850.000	-28.119	
		Upper	1RB	1910.000	-24.949	
			FRB	1910.000	-30.709	
	16QAM	Lower	1RB	1850.000	-31.879	
			FRB	1850.000	-30.463	
		Upper	1RB	1910.000	-34.149	
			FRB	1910.000	-31.434	
15 MHz	QPSK	Lower	1RB	1850.000	-23.872	-13.00
			FRB	1850.000	-31.556	
		Upper	1RB	1910.000	-19.150	
			FRB	1910.000	-29.146	
	16QAM	Lower	1RB	1850.000	-21.185	
			FRB	1850.000	-30.760	
		Upper	1RB	1910.000	-27.608	
			FRB	1910.000	-28.809	

Bandwidth	Mode	Side	RB Status	f [MHz]	Level [dBm]	Limit [dBm]
10 MHz	QPSK	Lower	1RB	1850.000	-27.607	-13.00
			FRB	1850.000	-28.329	
		Upper	1RB	1910.000	-27.262	
			FRB	1910.000	-26.632	
	16QAM	Lower	1RB	1850.000	-28.189	
			FRB	1850.000	-26.663	
		Upper	1RB	1910.000	-28.251	
			FRB	1910.000	-30.640	
5 MHz	QPSK	Lower	1RB	1850.000	-20.059	
			FRB	1850.000	-24.895	
		Upper	1RB	1910.000	-17.547	
			FRB	1910.000	-22.350	
	16QAM	Lower	1RB	1850.000	-23.708	
			FRB	1850.000	-25.041	
		Upper	1RB	1910.000	-20.471	
			FRB	1910.000	-24.355	
3 MHz	QPSK	Lower	1RB	1850.000	-18.184	
			FRB	1850.000	-22.146	
		Upper	1RB	1910.000	-16.583	
			FRB	1910.000	-23.187	
	16QAM	Lower	1RB	1850.000	-18.857	
			FRB	1850.000	-24.213	
		Upper	1RB	1910.000	-17.972	
			FRB	1910.000	-25.005	
1.4 MHz	QPSK	Lower	1RB	1850.000	-22.964	
			FRB	1850.000	-22.747	
		Upper	1RB	1910.000	-19.911	
			FRB	1910.000	-22.686	
	16QAM	Lower	1RB	1850.000	-25.454	
			FRB	1850.000	-23.316	
		Upper	1RB	1910.000	-24.520	
			FRB	1910.000	-23.597	

10.2.1. BAND EDGE PLOTS

GSM



WCDMA

