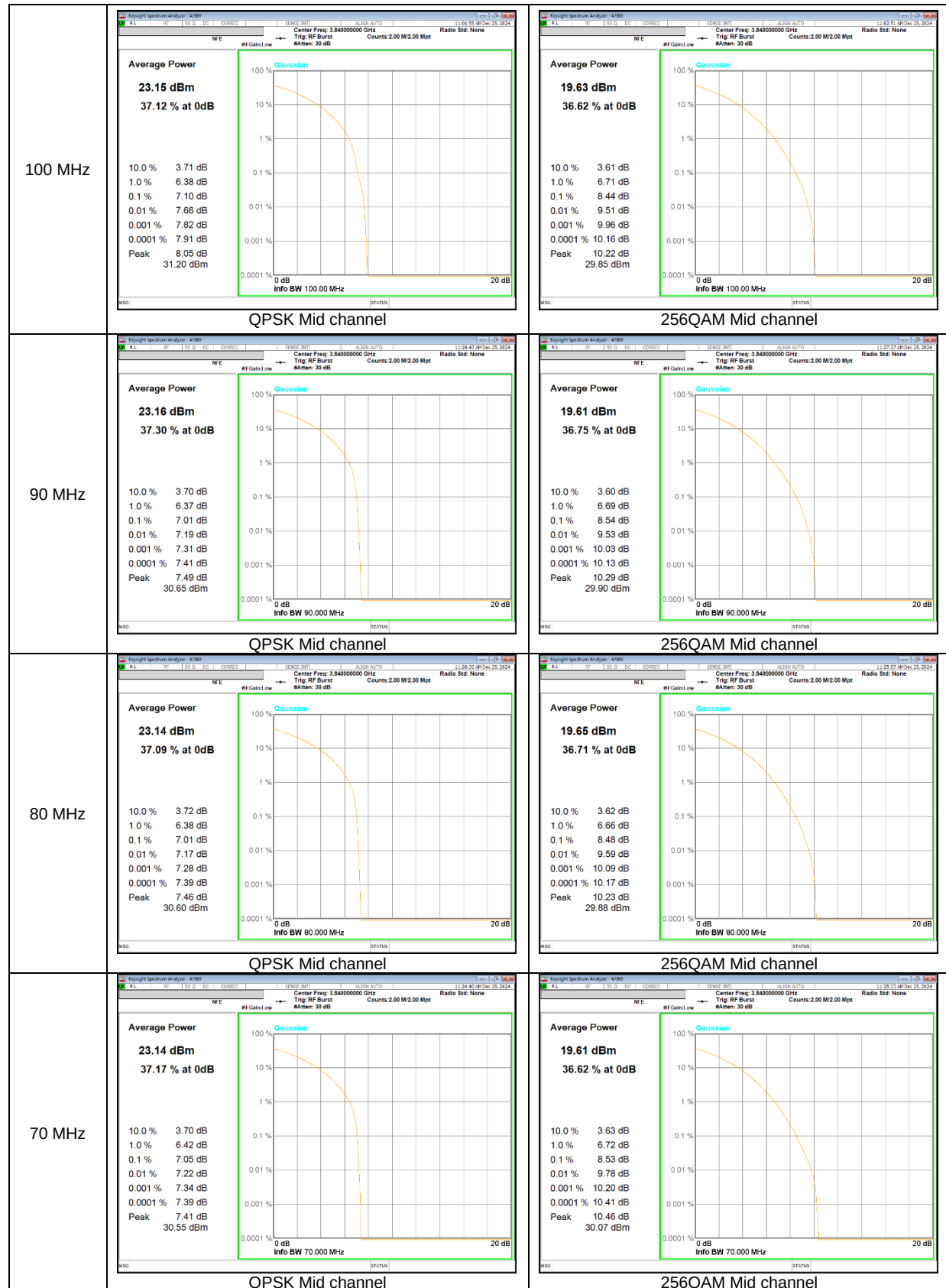
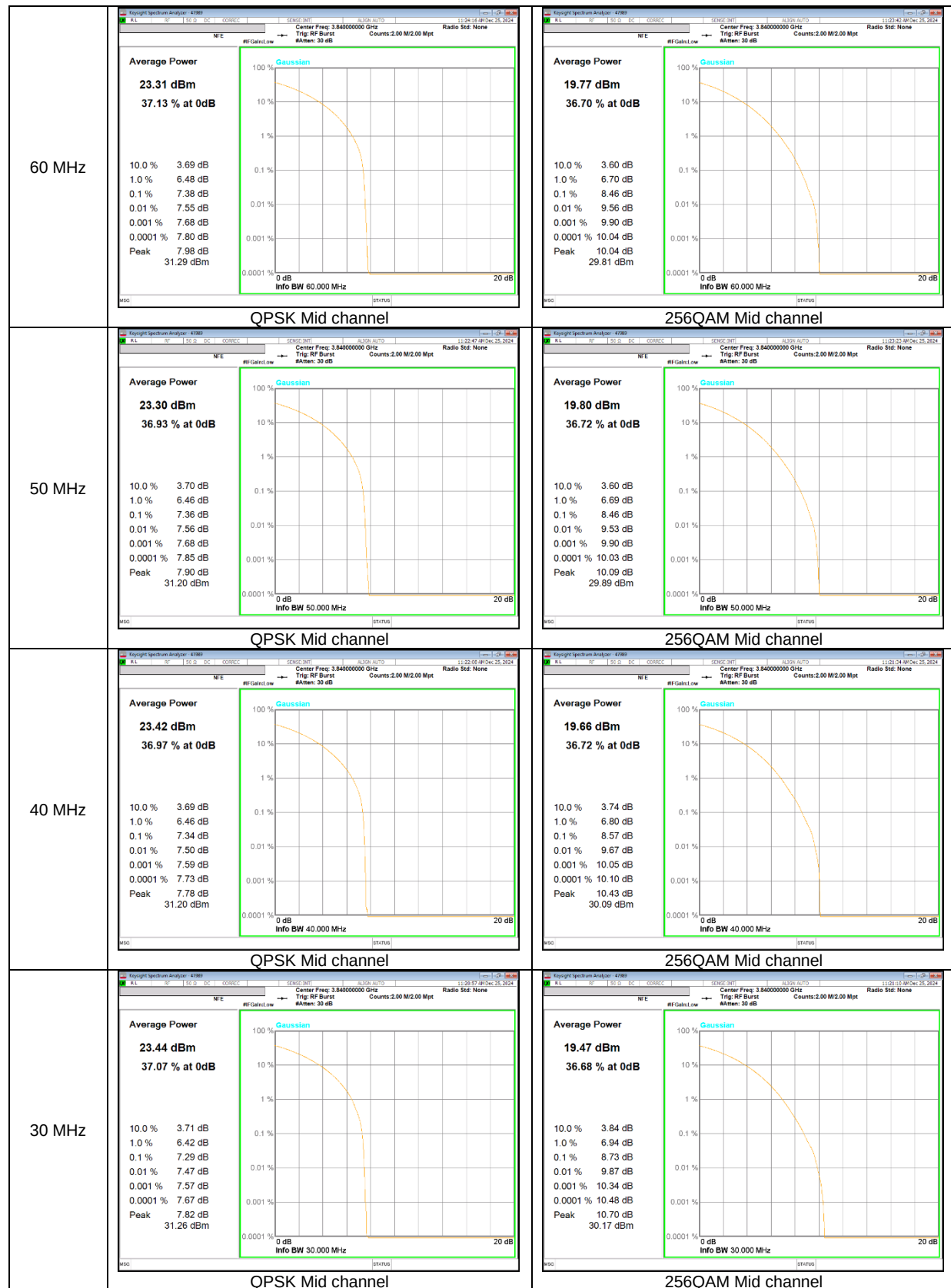


NR Band n77 CP-OFDM (3700-3980 MHz) (PC2)







8.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at middle channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

RESULTS

See the following pages.

- WCDMA

Band	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
B4	Rel.99	1732.60	4.145	4.696
	HSDPA		4.149	4.678

- LTE Band 12

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B12	10M	QPSK	707.50	8.927	9.613
		16QAM		8.939	9.791
	5M	QPSK		4.488	5.030
		16QAM		4.485	4.966
	3M	QPSK		2.697	2.979
		16QAM		2.699	2.990
	1.4M	QPSK		1.087	1.319
		16QAM		1.092	1.337

- LTE Band 13

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B13	10M	QPSK	782.00	8.947	9.665
		16QAM		8.962	9.807
	5M	QPSK		4.498	5.105
		16QAM		4.493	5.086

- LTE Band 41(PC3)

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B41	20M	QPSK	2593.00	17.888	19.120
		16QAM		17.888	18.900
	15M	QPSK		13.445	14.430
		16QAM		13.413	14.310
	10M	QPSK		9.001	9.812
		16QAM		8.953	9.660
	5M	QPSK		4.498	4.921
		16QAM		4.489	5.091

- LTE Band 66

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B66	20M	QPSK	1745.00	17.921	19.300
		16QAM		17.937	19.390
	15M	QPSK		13.447	14.600
		16QAM		13.475	14.510
	10M	QPSK		8.983	9.864
		16QAM		8.987	9.832
	5M	QPSK		4.495	4.981
		16QAM		4.499	5.075
	3M	QPSK		2.684	3.011
		16QAM		2.695	3.041
	1.4M	QPSK		1.090	1.328
		16QAM		1.091	1.319

- NR Band n41 CP-OFDM

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n41	100M	QPSK	2592.99	97.917	101.500
		16QAM		97.917	101.500
	90M	QPSK		88.040	91.500
		16QAM		87.943	91.510
	80M	QPSK		77.647	80.740
		16QAM		77.701	80.900
	70M	QPSK		67.673	70.440
		16QAM		67.666	70.430
	60M	QPSK		58.076	60.430
		16QAM		58.041	60.370
	50M	QPSK		47.653	49.690
		16QAM		47.573	49.740
	40M	QPSK		37.856	39.810
		16QAM		38.072	39.850
	30M	QPSK		27.978	29.470
		16QAM		27.862	29.210
	20M	QPSK		18.269	19.500
		16QAM		18.251	19.340
	15M	QPSK		13.635	14.770
		16QAM		13.592	14.870
	10M	QPSK		8.587	9.859
		16QAM		8.618	9.831

- NR Band n66 CP-OFDM

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n66	40M	QPSK	1745.00	38.615	40.250
		16QAM		38.589	40.290
	35M	QPSK		33.624	35.010
		16QAM		33.574	35.090
	30M	QPSK		28.582	29.930
		16QAM		28.662	29.910
	25M	QPSK		23.789	24.830
		16QAM		23.829	24.800
	20M	QPSK		18.920	19.820
		16QAM		18.985	19.780
	15M	QPSK		14.135	15.060
		16QAM		14.128	14.890
	10M	QPSK		9.311	10.030
		16QAM		9.334	10.010
	5M	QPSK		4.485	5.157
		16QAM		4.488	5.121

- NR Band n77 CP-OFDM (3450 - 3550 MHz) (PC2)

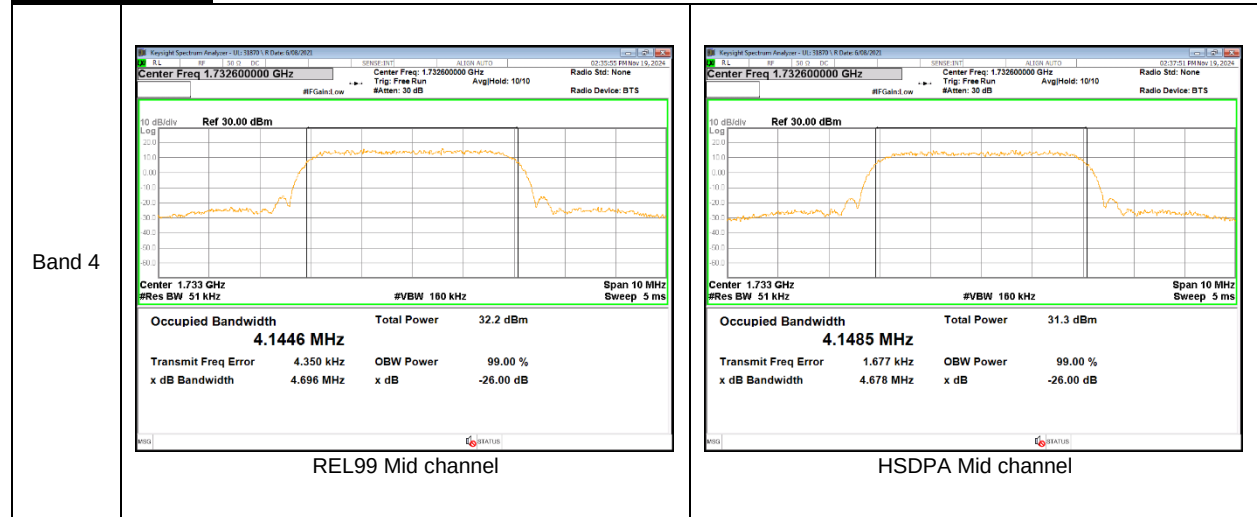
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77	100M	QPSK	3499.98	97.630	101.600
		16QAM		97.723	101.600
	90M	QPSK		88.032	91.410
		16QAM		87.909	91.510
	80M	QPSK		77.694	80.720
		16QAM		77.524	80.860
	70M	QPSK		67.716	70.310
		16QAM		67.908	70.480
	60M	QPSK		57.851	60.400
		16QAM		58.010	60.500
	50M	QPSK		47.582	49.520
		16QAM		47.603	49.520
	40M	QPSK		37.925	39.760
		16QAM		37.897	39.570
	30M	QPSK		27.992	29.870
		16QAM		28.051	29.460
	25M	QPSK		23.271	24.320
		16QAM		23.267	24.750
	20M	QPSK		18.177	19.420
		16QAM		18.226	19.450
	15M	QPSK		13.586	14.910
		16QAM		13.635	15.020
	10M	QPSK		8.609	10.100
		16QAM		8.584	9.751

- NR Band n77 CP-OFDM (3700 - 3980 MHz) (PC2)

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77	100M	QPSK	3840.00	97.550	101.600
		16QAM		97.723	101.500
	90M	QPSK		87.720	91.360
		16QAM		87.804	91.470
	80M	QPSK		77.600	80.810
		16QAM		77.666	80.820
	70M	QPSK		67.799	70.580
		16QAM		67.803	70.510
	60M	QPSK		57.877	60.570
		16QAM		57.932	60.530
	50M	QPSK		47.451	49.550
		16QAM		47.738	49.490
	40M	QPSK		37.933	39.460
		16QAM		38.013	39.660
	30M	QPSK		27.874	29.440
		16QAM		27.856	29.400
	25M	QPSK		23.276	24.300
		16QAM		23.283	24.810
	20M	QPSK		18.300	19.470
		16QAM		18.141	19.210
	15M	QPSK		13.605	14.860
		16QAM		13.618	15.320
	10M	QPSK		8.612	9.673
		16QAM		8.579	9.934

8.3.1. OCCUPIED BANDWIDTH RESULTS

WCDMA Band 4



LTE Band 12



LTE Band 13



LTE Band 41(PC3)



LTE Band 66





NR Band n41 CP-OFDM (PC3)







NR Band n66 CP-OFDM





NR Band n77 CP-OFDM (3450-3550 MHz) (PC2)



