

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	1732.6	4.161	4.722
	HSDPA		4.175	4.731

- LTE Band 12

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B12	10M	QPSK	707.5	8.981	10.360
		16QAM		8.978	10.150
	5M	QPSK		4.505	5.228
		16QAM		4.499	5.221
	3M	QPSK		2.703	3.064
		16QAM		2.712	3.112
	1.4M	QPSK		1.090	1.294
		16QAM		1.088	1.277

- LTE Band 13

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B13	10M	QPSK	782.0	8.983	10.310
		16QAM		8.978	10.210
	5M	QPSK		4.502	5.174
		16QAM		4.506	5.320

- LTE Band 41(PC2)

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B41(PC2)	20M	QPSK	2593.0	17.889	19.580
		16QAM		17.882	19.710
	15M	QPSK		13.423	14.910
		16QAM		13.406	14.980
	10M	QPSK		8.986	10.110
		16QAM		8.966	10.070
	5M	QPSK		4.490	5.274
		16QAM		4.490	5.220

- LTE Band 66

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B66	20M	QPSK	1745.0	17.883	19.700
		16QAM		17.894	19.770
	15M	QPSK		13.457	15.330
		16QAM		13.445	15.190
	10M	QPSK		8.994	10.370
		16QAM		9.006	10.420
	5M	QPSK		4.503	5.218
		16QAM		4.508	5.225
	3M	QPSK		2.709	3.098
		16QAM		2.704	3.101
	1.4M	QPSK		1.088	1.319
		16QAM		1.086	1.276

- NR Band n41 CP-OFDM

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n41	100M	QPSK	2593.0	97.696	103.300
		16QAM		97.844	102.700
	90M	QPSK		87.717	92.430
		16QAM		87.660	93.520
	80M	QPSK		77.600	82.950
		16QAM		77.641	81.240
	70M	QPSK		67.714	71.650
		16QAM		67.632	72.470
	60M	QPSK		57.871	62.660
		16QAM		57.916	62.200
	50M	QPSK		47.410	50.620
		16QAM		47.656	50.620
	40M	QPSK		37.934	40.100
		16QAM		37.959	41.030
	30M	QPSK		27.999	29.170
		16QAM		27.878	29.550
	20M	QPSK		18.201	19.570
		16QAM		18.259	19.780
	15M	QPSK		13.583	14.700
		16QAM		13.600	14.450
	10M	QPSK		8.597	9.861
		16QAM		8.620	9.860

- NR Band n66 CP-OFDM

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n66	20M	QPSK	1745.0	18.898	20.510
		16QAM		18.935	20.250
	15M	QPSK		14.096	15.120
		16QAM		14.131	14.830
	10M	QPSK		9.286	10.020
		16QAM		9.329	10.150
	5M	QPSK		4.495	5.215
		16QAM		4.483	5.056

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

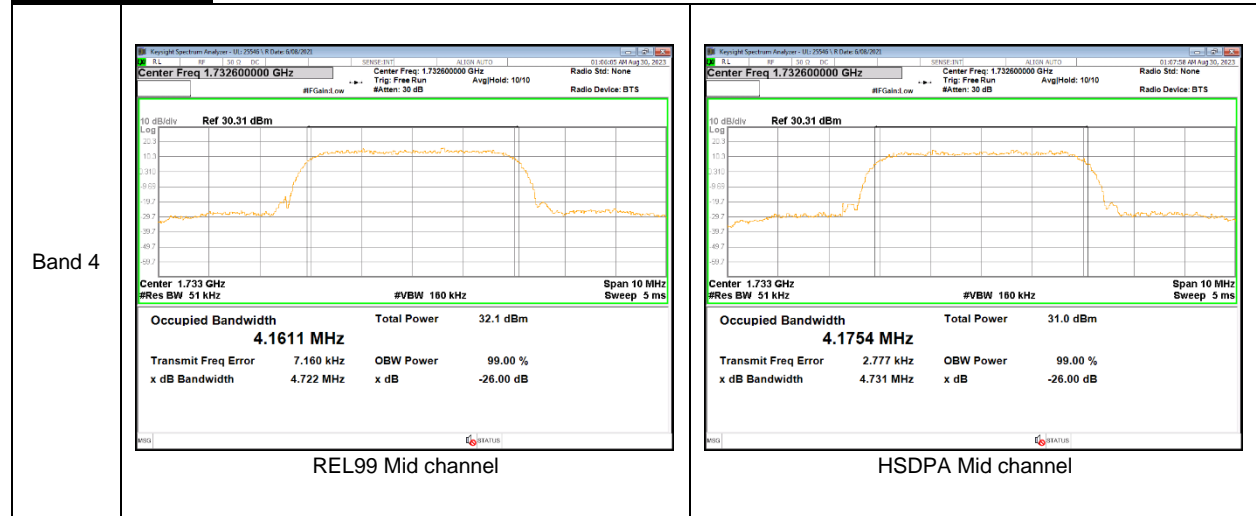
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77	100M	QPSK	3500.0	97.625	102.300
		16QAM		97.800	102.500
	90M	QPSK		87.808	92.380
		16QAM		87.441	91.620
	80M	QPSK		77.622	81.960
		16QAM		77.789	80.770
	70M	QPSK		67.614	71.220
		16QAM		67.695	70.500
	60M	QPSK		57.934	61.190
		16QAM		57.973	62.090
	50M	QPSK		47.518	50.240
		16QAM		47.600	50.360
	40M	QPSK		37.983	40.290
		16QAM		38.001	39.550
	30M	QPSK		27.902	29.260
		16QAM		27.897	29.700
	20M	QPSK		18.219	19.190
		16QAM		18.196	19.490
	15M	QPSK		13.638	15.100
		16QAM		13.568	15.160
10M	QPSK	8.614	9.712		
	16QAM	8.595	10.120		

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

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77	100M	QPSK	3840.0	97.739	103.100
		16QAM		97.656	102.800
	90M	QPSK		87.721	93.060
		16QAM		87.550	93.400
	80M	QPSK		77.671	82.000
		16QAM		77.712	81.430
	70M	QPSK		67.771	73.880
		16QAM		67.654	72.110
	60M	QPSK		57.948	61.520
		16QAM		58.080	63.560
	50M	QPSK		45.628	49.260
		16QAM		45.705	48.540
	40M	QPSK		38.016	40.540
		16QAM		37.965	40.060
	30M	QPSK		27.929	29.990
		16QAM		27.977	30.090
	20M	QPSK		18.243	19.880
		16QAM		18.201	19.570
	15M	QPSK		13.562	15.220
		16QAM		13.574	14.750
	10M	QPSK		8.623	10.240
		16QAM		8.583	9.778

8.3.1. OCCUPIED BANDWIDTH RESULTS

WCDMA Band 4



LTE Band 12



LTE Band 13



LTE Band 41(PC2)



LTE Band 66





NR Band n41 CP-OFDM







NR Band n66 CP-OFDM



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







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



