

Table 1 Simulation parameters

Basic parameters	3GPP TS 38.101 Clause 5.4.3.1
Data type	Floating point
Time and frequency synchronization, channel estimation, and noise variance estimation	Perfect
Equalizer type	LMMSE

Table 2 PBCH demodulation performance in case SS/PBCH block index is known

Test number	Bandwidth (MHz)/Subcarrier spacing (kHz)	Reference channel	Propagation condition	Antenna configuration and correlation matrix	Demodulation performance	
					Pm-bch(%)	SNR (dB)
1	10/15	R.PBCH.1	TDLC300-100	1x4 Low	1	-19
Note	-					

In case of unknown SS/PBCH block index, the required SNR is less than -10 dB dependent on complexity of practical channel estimation and noise variance estimation.

Doppler spread estimation is studied and shows no performance loss for PBCH demodulation.