Table 1 Simulation parameters

Basic parameters	3GPP TS 38.101 Clause 5.2.3.1.1 Test 4-1
Modified parameters	No precoding, same information bit payload and binary channel bits for every slot
Data type	Floating point
Channel estimation, synchronization and noise covariance matrix estimation	Perfect
Equalizer type	MMSE-IRC
LDPC decoder	Belief propagation with 12 iterations

For simplicity, a noise covariance matrix of $\begin{bmatrix} 1 & \beta^{1/9} & \beta^{4/9} & \beta \\ \beta^{1/9*} & 1 & \beta^{1/9} & \beta^{4/9} \\ \beta^{4/9*} & \beta^{1/9*} & 1 & \beta^{1/9} \\ \beta^{*} & \beta^{4/9*} & \beta^{1/9*} & 1 \end{bmatrix}$ is applied with $\beta = 0.3874$ for medium correlated case and $\beta = 0.9$ for high correlated case.

Table 2 Required SNR (dB) at 70% of the maximum throughput for medium correlated noise

Modulation schemes and MIMO correlation matrix configurations	**Low**	**Medium-A**	**Medium**	**High**	**Simulation duration (10 ms)**
QPSK	0.09	12.29	19.64	23.34	100
16QAM	11.47	-	-	-	50
64QAM	17.29	-	-	-	10
256QAM	22	-	-	-	10
Note	-				

Table 3 Required SNR (dB) at 70% of the maximum throughput for high correlated noise

Modulation schemes and MIMO correlation matrix configurations	**Low**	**Medium-A**	**Medium**	**High**	**Simulation duration (10 ms)**
QPSK	-8.26	2.04	5.77	10.17	100
16QAM	8.95	-	-	-	50
64QAM	15.69	-	-	-	10
256QAM	21.71	-	-	-	10

Note	-