

2 MBit spreading gain analysis

Speedcom Wireless International Corp.

Model #: NCBSLTM

Date: 1 Nov. 2000

Job #: 484U0

Page #: 110

Measurement file output name is:

2mbit.cnd

Input command file name is:

INPUT.CMD

Input CW correction level:

6 dB

Lowcount is:

1000 messages

Highcount is:

50000 messages

Rx level DUT is: -55 dBm

Note: 2 Mbit, 5 dB SIR tested for (15 dB SNR - 10.4 - 0 impl. losses).

Takes not into account allowed useage of 2 dB SIR implementation losses margin.

Attention: Input the red cells for correct spreadsheet calculations!

total errors
percentage
OK?

Number of received data errors as a function of frequency and interference level																		
Not measured combinations listed as "-1"																		
Uncorrected Interference level dialed at CW generator																		
True CW interference level at receiver input (dBm)																		
J/S ratio (dB)	-11	#PDA	-10	#PDA	-9	#PDA	-8	#PDA	-7	#PDA	-6	#PDA	-5	#PDA	-4	#PDA	-3	#PDA
Frequency (Hz)																		
2409000000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409050000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409100000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409150000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409200000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409250000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409300000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409350000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409400000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409450000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409500000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409550000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409600000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409650000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409700000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409750000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409800000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409850000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409900000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2409950000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410000000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410050000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410100000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410150000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410200000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410250000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410300000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410350000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410400000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000
2410450000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000

Measurement file output name is: 1mbit.cnd
Input command file name is: INPUT.CMD
Input CW correction level: 6 dB
Lowcount is: 1000 messages
Highcount is: 50000 messages
Rx level DUT is: -55 dBm

1 MBit spreading gain analysis
Note: 1 Mbit, 5 dB SIR tested for (13 dB SNR - 10.4 + 2 impl. losses).
Takes into account allowed usage of 2 dB SIR margin.
Attention: Input the red cells for correct spreadsheet calculations!

Speedcom Wireless International Corp.
Model #: NCBSLTM
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Page #: 18

Number of received data errors as a function of frequency and interference level Not measured combinations listed as "-1"																			RxD Errors detected full test range	PDA missing full test range	RxD Errors detected up to CW =< -60 dBm (J/S = -3.2 dB)								
Uncorrected Interference level dialed at CW generator			H		I		J		K		L		M		N		O					P		Q		R		S	
-60			-59		-58		-57		-56		-55		-54		-53		-52					-51		-50		-49		-48	
True CW interference level at receiver input (dBm)			-66		-65		-64		-63		-62		-61		-60		-59		-58			-57		-56		-55			
J/S ratio (dB)	-11	#PDA	-10	#PDA	-9	#PDA	-8	#PDA	-7	#PDA	-6	#PDA	-5	#PDA	-4	#PDA	-3	#PDA											
Frequency (Hz)																													
240900000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240905000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240910000	8	49999	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	RxD errors	PDA errors									
240915000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	1	50000	RxD errors	OK, No PDA errors									
240920000	5	50000	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	RxD errors	PDA errors									
240925000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	2	50000	RxD errors	OK, No PDA errors									
240930000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240935000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240940000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240945000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	1	50000	RxD errors	OK, No PDA errors									
240950000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	3	50000	RxD errors	OK, No PDA errors									
240955000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	2	50000	RxD errors	OK, No PDA errors									
240960000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	1	50000	RxD errors	OK, No PDA errors									
240965000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240970000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	2	49999	RxD errors	PDA errors									
240975000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240980000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240985000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240990000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
240995000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
241000000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	1	50000	RxD errors	OK, No PDA errors									
241005000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
241010000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
241015000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	1	50000	RxD errors	OK, No PDA errors									
241020000	0	1000	6	50000	1	50000	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	RxD errors	PDA errors									
241025000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
241030000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	1	50000	RxD errors	OK, No PDA errors									
241035000	3	50000	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	RxD errors	PDA errors									
241040000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
241045000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									
241050000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	1000	0	50000	OK, 0 RxD errors	OK, No PDA errors									