



LigoWave Link Analysis Report

Date Generated: 4/25/2011 8:22 PM EST

SITE INFORMATION

Tx Site Name	: S?tio	Rx Site Name	: Cidade
Radio Type	: LigoPTP 900-N	Radio Type	: LigoPTP 900-N
Latitude	: 3° 32' 6.9" S (3.53525)	Latitude	: 3° 33' 51.66" S (3.56435)
Longitude	: 41° 6' 5.796" W (41.10161)	Longitude	: 41° 5' 23.964" W (41.08999)
Tx Power	: 28 dBm	Rx Threshold	: -92 dBm
Ant. Gain	: 7.5 dBi	Ant. Gain	: 7.5 dBi
Ant. Height	: 0 feet	Ant. Height	: 0 feet

PARAMETERS

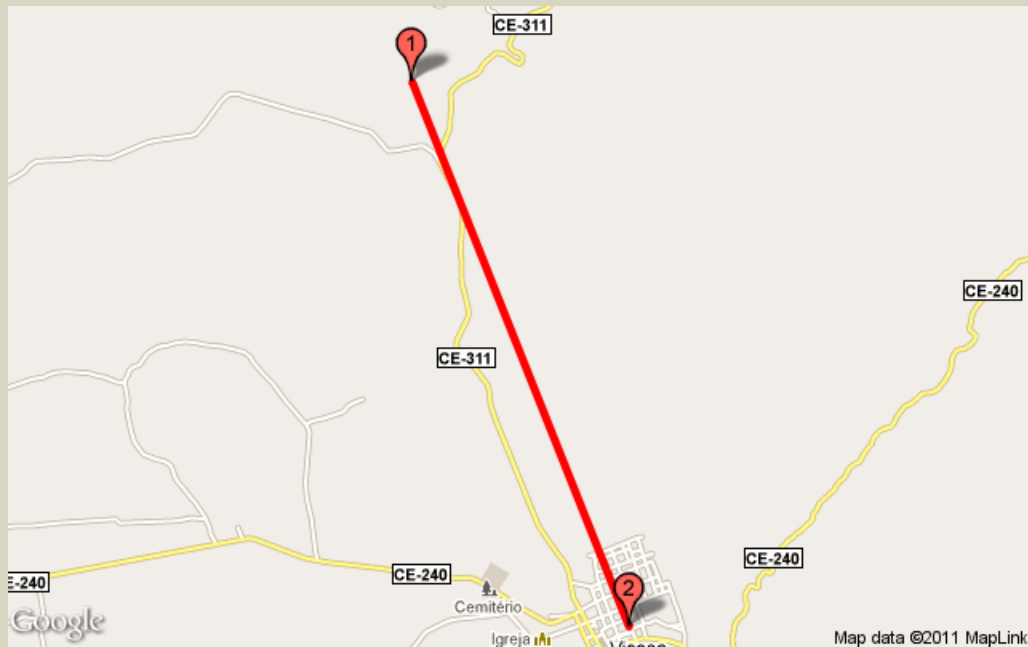
Frequency	: 907 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: English System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 118.31 dBm	Thermal Fade Margin	: 16.69 dBm
Rx Signal Level	: -75.31 dBm	Distance between sites	: 2.16 miles
EIRP	: 35.5 dBm	Link availability due to rain	: N/A%



MAP



Path Loss:118.31 dBm

5MHz CHANNEL				
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	MAX THROUGHPUT
BPSK 1/2	-75.31 dBm	16.69 dBm	N/A%	1.25 Mbps
BPSK 3/4	-75.31 dBm	15.69 dBm	N/A%	2 Mbps
QPSK 1/2	-75.31 dBm	15.69 dBm	N/A%	2.5 Mbps
QPSK 3/4	-75.31 dBm	12.69 dBm	N/A%	3.75 Mbps
16-QAM 1/2	-75.31 dBm	8.69 dBm	N/A%	4.5 Mbps
16-QAM 3/4	-77.31 dBm	3.69 dBm	N/A%	6.75 Mbps
64-QAM 2/3	-78.31 dBm	-3.31 dBm	0%	9 Mbps
64-QAM 3/4	-79.31 dBm	-7.31 dBm	0%	10 Mbps

10MHz CHANNEL				
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	MAX THROUGHPUT
BPSK 1/2	-75.31 dBm	16.69 dBm	N/A%	2.5 Mbps
BPSK 3/4	-75.31 dBm	15.69 dBm	N/A%	4 Mbps
QPSK 1/2	-75.31 dBm	15.69 dBm	N/A%	5 Mbps
QPSK 3/4	-75.31 dBm	12.69 dBm	N/A%	7.5 Mbps
16-QAM 1/2	-75.31 dBm	8.69 dBm	N/A%	9 Mbps
16-QAM 3/4	-77.31 dBm	3.69 dBm	N/A%	13.5 Mbps
64-QAM 2/3	-78.31 dBm	-3.31 dBm	0%	18 Mbps
64-QAM 3/4	-79.31 dBm	-7.31 dBm	0%	20 Mbps

20MHz CHANNEL				
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	MAX THROUGHPUT
BPSK 1/2	-75.31 dBm	16.69 dBm	N/A%	5 Mbps
BPSK 3/4	-75.31 dBm	15.69 dBm	N/A%	8 Mbps
QPSK 1/2	-75.31 dBm	15.69 dBm	N/A%	10 Mbps
QPSK 3/4	-75.31 dBm	12.69 dBm	N/A%	15 Mbps
16-QAM 1/2	-75.31 dBm	8.69 dBm	N/A%	18 Mbps
16-QAM 3/4	-77.31 dBm	3.69 dBm	N/A%	27 Mbps
64-QAM 2/3	-78.31 dBm	-3.31 dBm	0%	36 Mbps
64-QAM 3/4	-79.31 dBm	-7.31 dBm	0%	40 Mbps