



LigoWave Link Analysis Report

Date Generated: 2/23/2011 7:07 AM EST

SITE INFORMATION

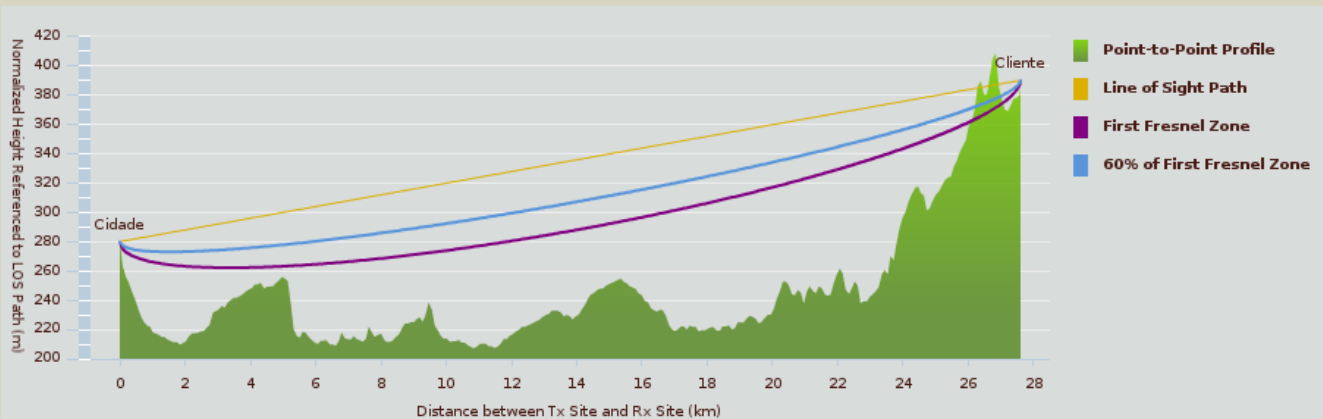
Tx Site Name	: Cidade	Rx Site Name	: Cliente
Radio Type	: LigoPTP 900-N	Radio Type	: LigoPTP 900-N
Latitude	: 7° 11' 42.93" S (7.195258)	Latitude	: 7° 13' 22.06" S (7.222794)
Longitude	: 48° 11' 59" W (48.199722)	Longitude	: 48° 26' 54.34" W (48.448428)
Tx Power	: 28 dBm	Rx Threshold	: -92 dBm
Ant. Gain	: 20 dBi	Ant. Gain	: 20 dBi
Ant. Height	: 10 meters	Ant. Height	: 10 meters

PARAMETERS

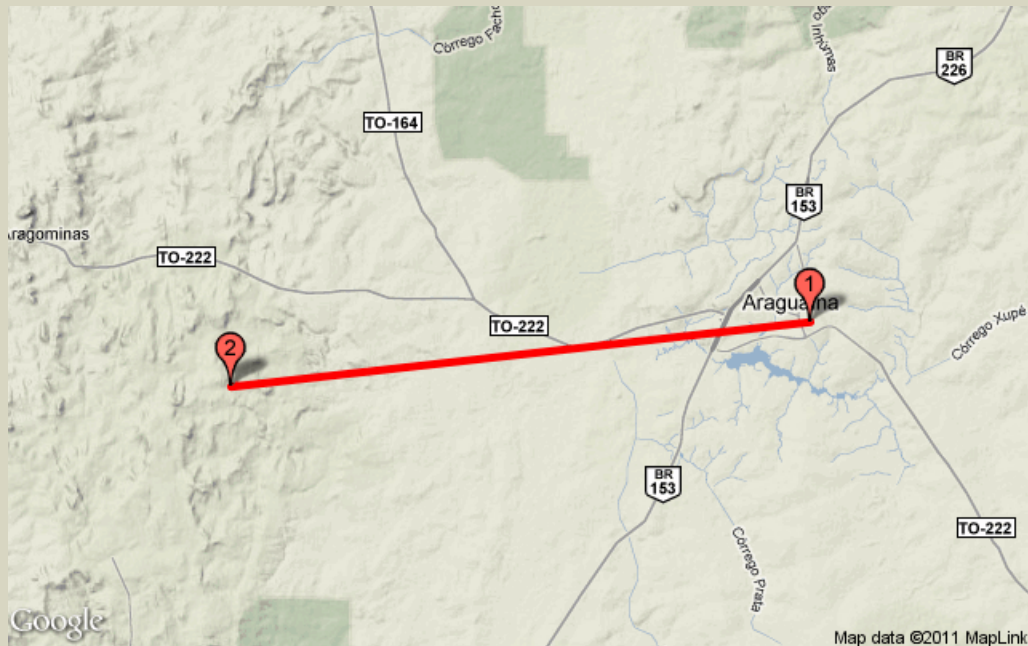
Frequency	: 907 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 167.02 dBm	Thermal Fade Margin	: -7.02 dBm
Rx Signal Level	: -99.02 dBm	Distance between sites	: 27.61 km
EIRP	: 48 dBm	Link availability due to rain	: 0%



MAP



Path Loss:167.02 dBm

5MHz CHANNEL				
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	MAX THROUGHPUT
BPSK 1/2	-99.02 dBm	-7.02 dBm	0%	1.25 Mbps
BPSK 3/4	-99.02 dBm	-8.02 dBm	0%	2 Mbps
QPSK 1/2	-99.02 dBm	-8.02 dBm	0%	2.5 Mbps
QPSK 3/4	-99.02 dBm	-11.02 dBm	0%	3.75 Mbps
16-QAM 1/2	-99.02 dBm	-15.02 dBm	0%	4.5 Mbps
16-QAM 3/4	-101.02 dBm	-20.02 dBm	0%	6.75 Mbps
64-QAM 2/3	-102.02 dBm	-27.02 dBm	0%	9 Mbps
64-QAM 3/4	-103.02 dBm	-31.02 dBm	0%	10 Mbps

10MHz CHANNEL				
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	MAX THROUGHPUT
BPSK 1/2	-99.02 dBm	-7.02 dBm	0%	2.5 Mbps
BPSK 3/4	-99.02 dBm	-8.02 dBm	0%	4 Mbps
QPSK 1/2	-99.02 dBm	-8.02 dBm	0%	5 Mbps
QPSK 3/4	-99.02 dBm	-11.02 dBm	0%	7.5 Mbps
16-QAM 1/2	-99.02 dBm	-15.02 dBm	0%	9 Mbps
16-QAM 3/4	-101.02 dBm	-20.02 dBm	0%	13.5 Mbps
64-QAM 2/3	-102.02 dBm	-27.02 dBm	0%	18 Mbps
64-QAM 3/4	-103.02 dBm	-31.02 dBm	0%	20 Mbps

20MHz CHANNEL				
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	MAX THROUGHPUT
BPSK 1/2	-99.02 dBm	-7.02 dBm	0%	5 Mbps
BPSK 3/4	-99.02 dBm	-8.02 dBm	0%	8 Mbps
QPSK 1/2	-99.02 dBm	-8.02 dBm	0%	10 Mbps
QPSK 3/4	-99.02 dBm	-11.02 dBm	0%	15 Mbps
16-QAM 1/2	-99.02 dBm	-15.02 dBm	0%	18 Mbps
16-QAM 3/4	-101.02 dBm	-20.02 dBm	0%	27 Mbps
64-QAM 2/3	-102.02 dBm	-27.02 dBm	0%	36 Mbps
64-QAM 3/4	-103.02 dBm	-31.02 dBm	0%	40 Mbps