



LigoWave Link Analysis Report

Date Generated: 4/5/2013 7:17 PM EST

Site Information

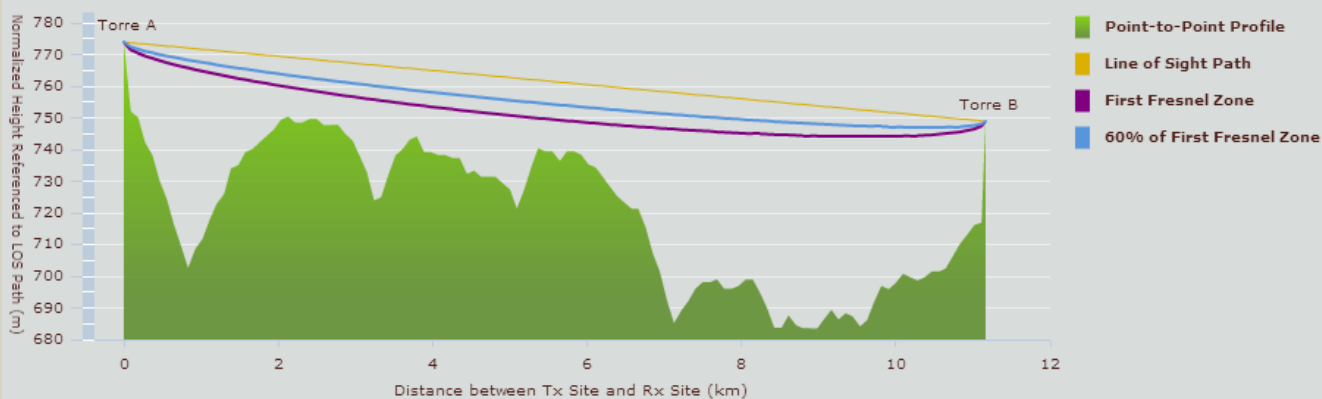
Tx Site Name	Tx Site Name	Rx Site Name	Rx Site Name
Radio Type	LigoPTP 5 Mimo	Radio Type	LigoPTP 5 Mimo
Latitude	15° 55' 20.5 S (15.922361)	Latitude	16° 1' 17.93 S (16.021647)
Longitude	49° 47' 24.6 O (49.790167)	Longitude	49° 48' 20.18 O (49.805606)
Tx Power	25 dBm	RX Threshold	-94 dBm
Ant. Gain	25 dBi	Ant. Gain	25 dBi
Ant. Height	20 meters	Ant. Height	30 meters

Parameters

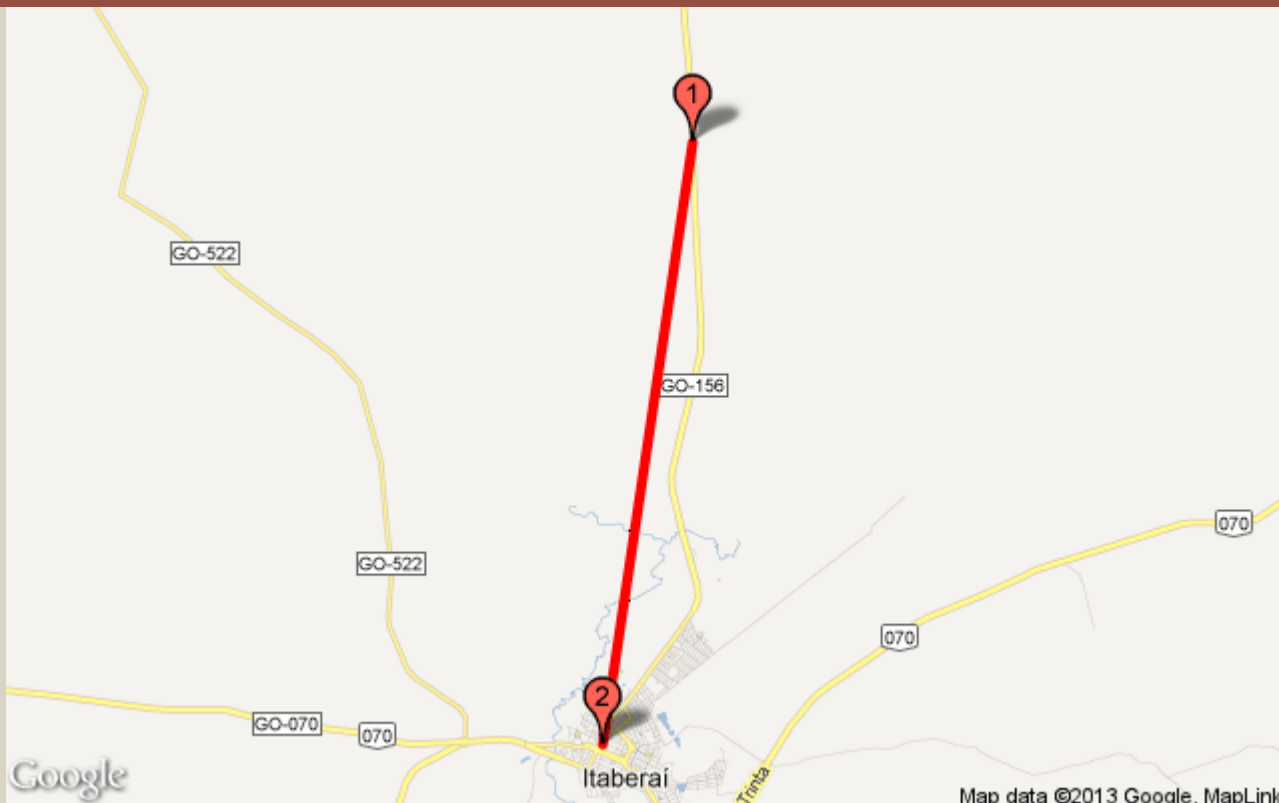
Frequency	5800 MHz	Climate	Continental Temperate
Ant. Polarization	Vertical	Measurement	Metric System
Misc. Loss	0 dBm	Rain Rate	0 mm/hr

Results

Total Path Loss	128.82 dBm	Total Fade Margin	40.18 dBm
RX Signal Level	-53.82 dBm	Distance between sites	11.16 km
EIRP	50 dBm	Link availability due to rain	N/A



MAP



DISCLAIMER: These results are provided with no guarantee or warranty.

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-53.82 dBm	40.18 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-53.82 dBm	37.18 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-53.82 dBm	35.18 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-54.82 dBm	31.18 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-56.82 dBm	25.18 dBm	N/A%	1X1	38 Mbps
64-QAM 2/3	-57.82 dBm	19.18 dBm	N/A%	1X1	44 Mbps
64-QAM 3/4	-58.82 dBm	16.18 dBm	N/A%	1X1	50 Mbps
64-QAM 5/6	-59.82 dBm	13.18 dBm	N/A%	1X1	55 Mbps
BPSK 1/2	-53.82 dBm	40.18 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-53.82 dBm	37.18 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-53.82 dBm	35.18 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-54.82 dBm	31.18 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-56.82 dBm	25.18 dBm	N/A%	2X2	76 Mbps
64-QAM 2/3	-57.82 dBm	19.18 dBm	N/A%	2X2	88 Mbps
64-QAM 3/4	-58.82 dBm	16.18 dBm	N/A%	2X2	100 Mbps
64-QAM 5/6	-59.82 dBm	13.18 dBm	N/A%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-53.82 dBm	40.18 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-53.82 dBm	37.18 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-53.82 dBm	35.18 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-54.82 dBm	31.18 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-56.82 dBm	25.18 dBm	N/A%	1X1	76 Mbps
64-QAM 2/3	-57.82 dBm	19.18 dBm	N/A%	1X1	88 Mbps
64-QAM 3/4	-58.82 dBm	16.18 dBm	N/A%	1X1	100 Mbps
64-QAM 5/6	-59.82 dBm	13.18 dBm	N/A%	1X1	110 Mbps
BPSK 1/2	-53.82 dBm	40.18 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-53.82 dBm	37.18 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-53.82 dBm	35.18 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-54.82 dBm	31.18 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-56.82 dBm	25.18 dBm	N/A%	2X2	115 Mbps
64-QAM 2/3	-57.82 dBm	19.18 dBm	N/A%	2X2	135 Mbps
64-QAM 3/4	-58.82 dBm	16.18 dBm	N/A%	2X2	160 Mbps
64-QAM 5/6	-59.82 dBm	13.18 dBm	N/A%	2X2	180 Mbps

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