


TEST SUMMARY REPORT

WiFi SIGNAL STRENGTH COMPARISON

Client:	Built Boards
Address:	15/95 White Street, Mordialloc, VIC 3195
Report Number:	BUI140604_TS
Date of Testing:	21 to 22 Jul. 2014
File Number:	BUI140604
Equipment Name:	NBN Enclosure
Equipment Model Number:	BBNBN
Equipment Serial Number:	NA
Equipment Description:	Steel NBN Enclosure
Tested by:	Pat Sinni 
Date of Issue:	23 Jul. 2014

Introduction

The purpose of this test was to compare the WiFi signal strength (at 2.4GHz) generated by various routers when situated inside a metallic enclosure and then outside of the metallic enclosure.

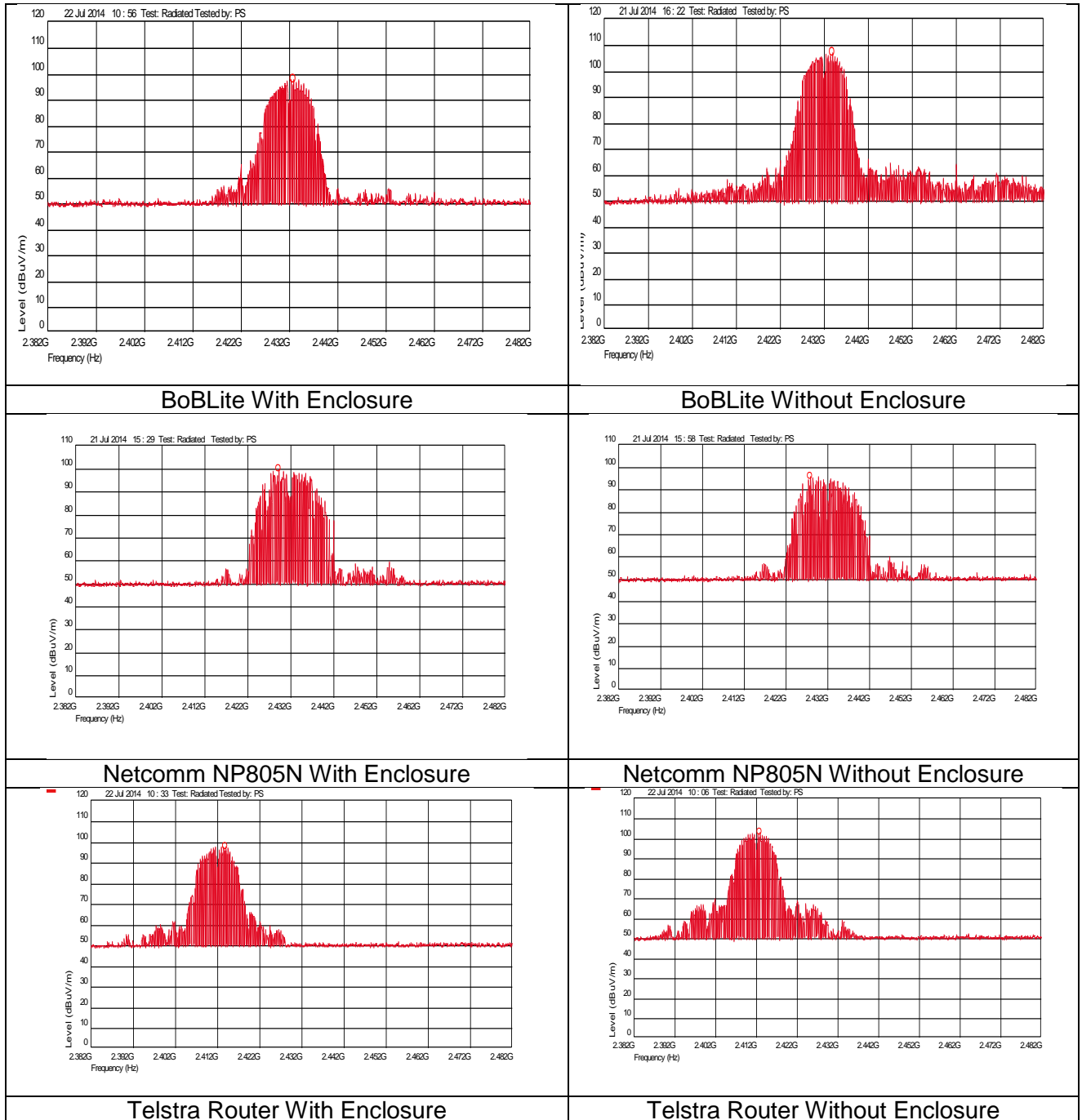
The signal strength was measured in a semi-anechoic chamber using a calibrated horn antenna and a spectrum analyser. Signal strength was measured in dBuV/m (Electric field) with the horn antenna in vertical polarisation.

The maximum signal strength was found for each case by rotating the unit 360° and by raising the antenna between 1-4m in height.

Router	With Enclosure (dBuV/m)	Without Enclosure (dBuV/m)
iiNet BoBLite	97.9	107.0
Netcomm NP805N	99.8	96.1
Telstra Router	98.0	103.3

Conclusion: There was minimal difference in signal strength when the router was situated inside or outside of the metallic enclosure.

Signal strength plots



Setup photos

