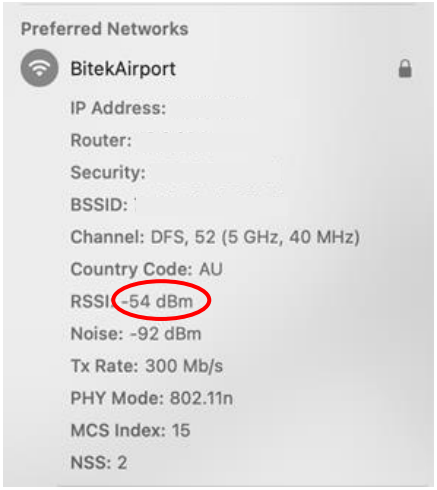
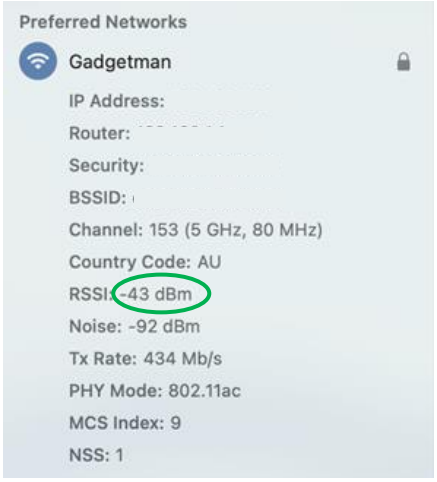
HILLS™
Antenna Home Hub

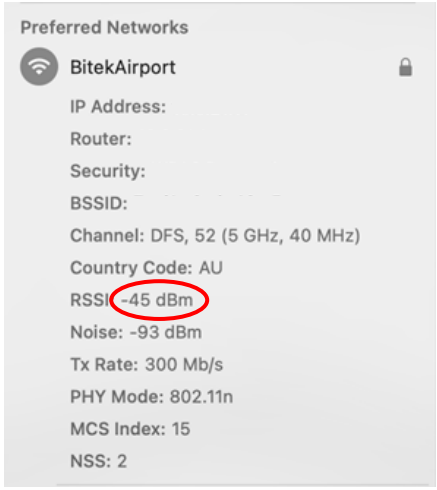
Wifi test report.

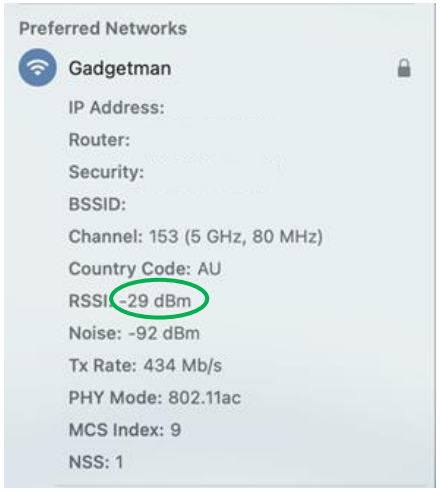
Wifi test with door closed





Wifi test with door open





The purpose of this test is to show the impact of using a WiFi router inside the enclosure with the door shut.
Whilst there is no requirement for the router to be placed in the enclosure by NBN, we acknowledge that there may be some applications where this is required.
There is an obvious impact to signal strength when the router is placed in a metal enclosure, the perforations in the door are design to allow adequate airflow to the electronic devices inside as well as allow WiFi to pass through.
In our tests we placed the routers inside the enclosure and shut the door for the first test, we then opened the door and retested. The test results are shown to the left of this text.
The receiving device is approximately 4.2m from the enclosure with a clear line of sight.
The test results show the WiFi signal strength remains in the good to excellent range for useable WiFi signal.
RSSI, or received signal strength indicator, is the key metric for your WiFi's signal strength.
Here are some guidelines for assessing your signal strength:

-30 dBm. This is the maximum signal strength you could achieve, and it probably means you are in a very close proximity to the Wi-Fi router.

-50 dBm. Anything from -30 dBm to -50 dBm is excellent and is often about as high as you can get.

-67 dBm. This is the lowest value that will deliver acceptable results for most online services.

-80 dBm. This is the lowest possible value that will make a connection between the router and computer, but it's too weak to be useful for any online service.