

This document is a publicly-distributable excerpt of Neptune document ETI 54-02 “R900 MRX920v4e EMC Theory of Operation”, revision A, released 2 March 2023 and published 11 April 2023. The information is from Section 8.2 of that document.

This excerpt details information about the vehicle-roof-mount antenna used with Neptune’s model MRX920v4e, which is listed with the regulatory agencies under the following designators:

- FCC ID: P2SMRXV4E
- ISED: 4171B-MRXV4E

ANTENNA INFORMATION (902-928 MHz BAND)

Manufacturer: Laird

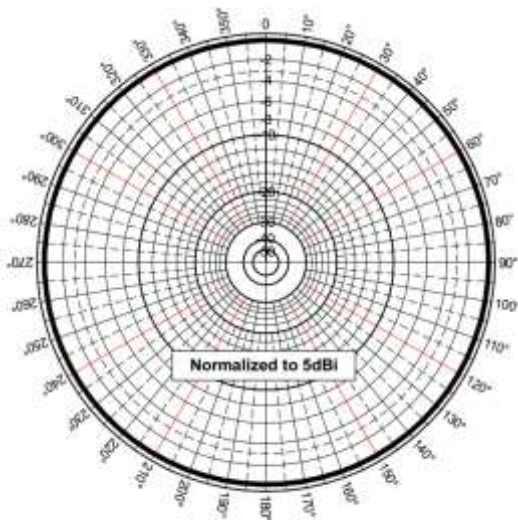
P/N: B8965C

Declared Peak Gain: 5.1 dBi

Neptune-measured Gain: 3 dBi peak azimuth at 0° elevation

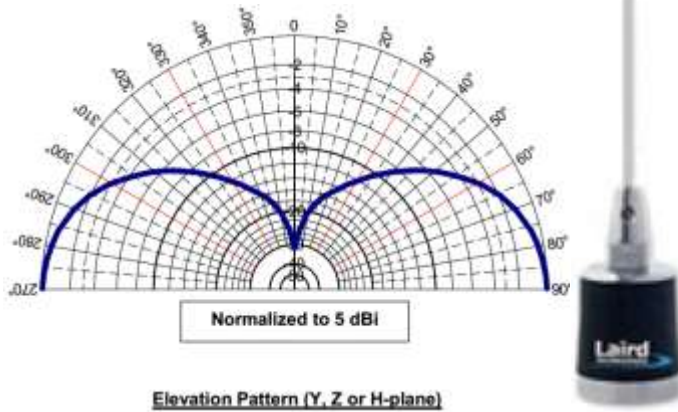
Pattern: omnidirectional in azimuth, when mounted on vehicle roof as recommended.

The radiation patterns of the roof-mount antenna are illustrated below. These plots come from the manufacturer.



Azimuthal Pattern (X, Y or E-Plane)

(Pattern shown is looking down on antenna rod)



(Pattern shown is looking at side of antenna rod, as image shows)