Ref: Nemko test report no: 72519R2b
Espoo 24.10.2006

Equipment under test:

Remote control: Transceiver RC917FH/TR02
Manufacturer: Scanreco Industrielektronik

De Facto EIRP
The EUT has two possible transmit antennas.

The following data is from internal λ/2 dipole antenna.

Maximum output power = 27.3 mW peak
Transmission duration = 20.16 ms, this is 0.02016 s
Number of hops in one hop cycle 50
Duration of hop cycle 1.1 s
Antenna gain 2.66 numeric
EIRP = 27.3 * (0.02016 * 50 / 1.1) * 2.66 = 66.5 mW
This is below the general population low threshold for d > 2.5 cm of TCB exclusion list. This is 120/0.9199 = 130 mW.

This filing is a limited modular approval for installation of this module by the manufacturer into their own products. The final application is industrial radio remote control products. The internal antenna will always be located at least 2.5 cm from the nearest host enclosure wall. Please refer to page 2 of the users manual.

The following data is from External λ/4 antenna.

Antenna gain 2 numeric
Maximum output power = 27.3 mW peak
EIRP = 27.3 * (0.02016 * 50 / 1.1) * 2 = 50.0 mW

This is below the low threshold, however the external fixed antenna will be mounted at least 20 cm from nearby persons. For example; when used on fixed mount unit the antenna is often mounted somewhere high typically on the roof of a truck or lorry. Therefore this configuration will comply with RF exposure requirements.