QUESTION ITU-R 110-3/5[[1]](#footnote-1)

Reference radiation patterns of point-to-point fixed wireless
system antennas for use in sharing studies

(1990-2003-2008-2012)

The ITU Radiocommunication Assembly,

considering

*a)* that determination of criteria for frequency sharing between point-to-point fixed wireless systems and systems in the space radiocommunication services requires a knowledge of the antenna gains of the point-to-point fixed wireless stations along all possible interfering paths;

*b)* that the use of reference radiation patterns for point-to-point fixed wireless system antennas would facilitate interference calculations;

*c)* that different reference radiation patterns may be required for the various types of antennas in use,

decides that the following Questions should be studied

1 What are the measured radiation patterns in the vertical and horizontal planes for both polarizations of typical antennas used in point-to-point fixed wireless systems?

2 What reference radiation patterns can be defined for use in sharing studies for the different types of antennas?

further decides

1that the results of the above studies should be included in one or more Recommendation(s) or Report(s);

2 that the above studies should be completed by 2027.

NOTE – See Recommendations [ITU-R F.699](http://www.itu.int/rec/R-REC-F.699/en) and [ITU-R F.1245](http://www.itu.int/rec/R-REC-F.1245/en).

Category: S2

1. In the year 2023, Radiocommunication Study Group 5 extended the completion date of studies for this Question. [↑](#footnote-ref-1)