QUESTION ITU-R 233-1/1 [[1]](#footnote-1)\*

Measurement of spectrum occupancy

(2007-2011)

The ITU Radiocommunication Assembly,

considering

a) that frequency management is providing theoretical values, retrieved from planning software regarding field strength values, produced by users of the frequency spectrum;

b) that monitoring services are tasked to measure the frequency spectrum and compare those values with the theoretical values from the frequency management;

c) that different types of occupancy measurements are performed worldwide and that it is often difficult to compare the results of those different methods,

decides that the following Questions should be studied

**1** What techniques could be used to perform frequency channel occupancy measurements, including processing and presentation methods?

**2** What techniques could be used to perform frequency band occupancy measurements, including processing and presentation methods?

**3** How can “occupancy” defined for both, frequency channel as well as for frequency band measurements, also taking into account, the size of the used filter and the values measured in adjacent channels?

**4** How can threshold levels be defined and applied in practical situations including dynamic threshold levels?

further decides

**1** that the above studies should be included in Recommendation(s) and/or Report(s);

**2** that the above studies should be completed by 2017.

Category: S3

1. \* In the year 2015, Radiocommunication Study Group 1 extended the completion date of studies for this Question. [↑](#footnote-ref-1)