QUESTION ITU-R 238/1[[1]](#footnote-1)\*

Characteristics for use of visible light for broadband communications

(2015)

The ITU Radiocommunication Assembly,

considering

*a)* that technology development is an on-going process that also opens new ways for use of spectrum;

*b)* that the use of visible light for communications currently receives renewed attention;

*c)* that visible light communications operate in the unregulated part of the frequency spectrum and therefore do not require an allocation in the Radio Regulations;

*d)* that the topic of possibilities of broadband use via visible light requires further study within ITU;

*e)* that in certain areas, e.g. in the space radiocommunications, optical communications have already been studied;

*f)* that optical broadband needs to avoid human hazards,

decides that the following Questions should be studied

1What are the distinctive characteristics and efficiency gains of the use of visible light for broadband communications in terms of their use of the spectrum?

2 What are the overall objectives and user needs for the development of broadband communication in the spectrum area of visible light?

3 What are the new applications associated with visible light used for broadband communications?

4 What are the technical and operational characteristics, taking into account *considering f)*, needed for the further development of visible light communications?

further decides

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

2 that the above studies should be completed by 2027.

Category: S2

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1. \* In the years 2019 and 2023, Radiocommunication Study Group 1 extended the completion date of studies for this Question. [↑](#footnote-ref-1)