

Publication of the ANFR's annual study of over 3,000 measurements of exposure of the general public to radio waves

Maisons-Alfort, 8th April 2020 - The French National Frequency Agency (ANFR) is publishing its annual study analysing over 3,000 measurements of exposure of the general public to radio waves carried out in 2019. It shows that globally, measured levels remain low, with a median exposure level of 0.38 V/m, while 90% of the measured levels appear to be below 1.8 V/m. For the record, the regulatory limit values not to be exceeded are between 28 V/m and 87 V/m depending on the transmitted frequencies.

The study covers all the measurements carried out in 2019 under the national system used to monitor public exposure to electromagnetic waves which was set up in 2014. This system is open to all and allows the measurement of exposure to electromagnetic waves free of charge, both in homes and in locations open to the public. In 2019, 3,020 locations were measured in the 100 kHz - 6 GHz band (excluding national campaigns). The number of measurements requested from the ANFR under this system is comparable to previous years.

Analysis of the levels measured in 2019 shows that they remain low overall: the median field strength is 0.38 V/m, i.e. half the obtained results are below this value.

One can also note that the slight increase observed in 2018 (median value of 0.40 V/m) was not confirmed in 2019. Furthermore, 90% of the measured levels are below 1.8 V/m.

The results are slightly higher in urban than in rural areas, and higher outdoors than indoors.

In over 60% of cases, mobile phone technology is the main source of exposure. In rural areas, however, this trend is less pronounced (33% of cases), as the level of exposure is often too low to be able to isolate a significant source (40% of cases).

For further information:

- [2019 Measurement report \(French version\)](#)
- [Brochure on the national system to monitor the exposure of the general public to waves \(French version\)](#)
- [French version of the press release](#)

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