

**SE24 #99 meeting****Copenhagen, Denmark, 13-15 January 2020****Date issued: 8 January 2020****Source: CRAF****Subject: New elements to consider for the WI71 draft report**

Group membership required to read? (Y/N)

 N**Summary:**

CRAF proposes to consider additional inputs for the WI71 draft report “Radiodetermination applications in the frequency range 116-260 GHz” related to exclusion bands for type C radars and to consider the editorial changes attached to this document, which are based on discussions in the last correspondence group web meeting.

**Proposal:**

CRAF invites SE24 to

- Take into account ITU-RR 5.340 and exclude passive bands from the possible bands of application (Table 10) for type C radars, in line with type A and B radars.
- Consider the editorial changes in the attached draft ECC Report.

**Background:**

The following elements could be considered, regarding the passive bands:

- As the report points out, ITU RR 5.340 states that “all emissions are prohibited in the following bands: ... 114.25-116 GHz, 148.5-151.5 GHz, 164-167 GHz, 182-185 GHz, 190-191.8 GHz, 200-209 GHz, 226-231.5 GHz, 250-252 GHz.”  
Despite this, passive bands between 116-260 GHz are considered as possible bands for type C application radars in Table 10.
- Type C radars are considered in the draft report for applications where “high shielding” is arguably not realistic, such as in the case of “in-vehicule surveillance radar”. For the other applications relating to a 40 or 50 dB shielding attenuation, no use case has been considered which allows to assume that the power emitted in a passive band by the radar and attenuated by the shielding is not and will not in the future be detectable by an instrumentation of the RAS and the EESS services.
- None of the radar applications considered in the report refers to the use in a frequency range covering one of the passive bands. So, interest for use of a passive band is not demonstrated. One could consider it as very risky to develop a radar application for the worldwide market in a frequency band that is prohibited by the international radio regulations.

Considering these argument, CRAF asks to exclude RR 5.340 bands from the possible bands of application for type C radars