

Per KDB 364244 D01 Meas 15.255 Radars v01 Annex B for the PAG review

FCC ID: 2AGNTMDX600958A

The following list specifies the information the applicant must provide in a PAG inquiry to expedite the FCC review.

a. Applicants for certification under §15.255(c)(2), in addition to a show of compliance to the specified limits, shall explain how conducted output power was determined and demonstrate compliance to the limits.

Re: not apply

b. Applicants for certification to operate in the 60.0-61.5 GHz ISM band under §15.255(c)(2)(v), in addition to showing compliance to the stated technical requirements, shall also demonstrate that the fundamental emission bandwidth is entirely contained within the band.

Re: not apply

c. For radar devices intended for operation in the 60-64 GHz band segment and for use onboard unmanned aircraft per §15.255(b)(3), in addition to a show of compliance to the output power limit, data showing that the fundamental emission bandwidth is contained within the designated band segment and time domain data demonstrating compliance to the off-time requirement shall be provided. Additionally, an explanation must be provided as to how the altitude restriction will be realized. Note that there is also a similar altitude restriction in the FAA rules at §107.51 within Title 14 of the Code of Federal Regulations (CFR).

1. – Show that the transmitter OBW is contained within the 60-64 GHz band segment

Re: The maximum OBW number is 517.903MHz (2402A51128E-RF-00BA2 Report page 20)

2. – Describe how altitude restriction will be satisfied

Re: Maintain flight altitude below 121.92m above ground level. This flight altitude is controlled and restricted by GPS positioning.

3. – Provide time domain data that demonstrates compliance to the off-time requirement

Re: 2402A51128E-RF-00BA2 report page 17

d. Applications for radar operation in the 57.0-59.4 GHz band segment under the §15.255(c)(2)(i) rule provision, in addition to showing compliance to the stated limits, shall also provide data demonstrating that the fundamental emission bandwidth is entirely contained within the designated band segment, and a statement as to whether usage will be limited to indoor or outdoor operations and how such limitations will be ensured.

Re: not apply

e. For radar devices intended to operate in the 57.0-61.56 GHz band segment under the provisions of §15.255(c)(2)(ii), in addition to a show of compliance to the applicable limits, provide data showing that the fundamental emission bandwidth is fully contained within the authorized band segment. Where appropriate ( $3 \text{ dBm} < \text{EIRP} \leq 20 \text{ dBm}$ ), time domain data showing compliance to the off-time requirement shall be provided.

Re: not apply

f. Radar devices intended for operation over the 57.0-64.0 GHz band segment under the requirements of §15.255(c)(2)(iii), in addition to showing compliance with the applicable limits, shall also provide data demonstrating that the fundamental emission bandwidth is fully contained within the designated band segment and time domain data demonstrating that the stated off-time requirement is satisfied under all operational conditions.

Re: not apply

g. If the radar is to be certified for operation over the 57.0-64.0 GHz band segment under the auspices of §15.255(c)(2)(iii)(A), provide data showing that the fundamental emission bandwidth is wholly contained within the authorized band segment and time domain data demonstrating compliance to the associated off-time requirement, in addition of a show of compliance to the relevant limits.

Re: not apply

h. If the radar is to be certified for operation over the 57.0-64.0 GHz band segment under the §15.255(c)(2)(iii)(B) requirements, in addition to showing compliance to the stated limits, provide data showing that the fundamental emission bandwidth is wholly contained within the authorized band segment and time domain data demonstrating compliance to the associated off-time requirement. Where applicable, explain comprehensively how the “fixed” requirement will be satisfied and maintained or how the device will be limited to exterior vehicular applications.

Re: not apply

i. If certifying a pulsed radar for operation over the 57.0-64.0 GHz band under the §15.255(C)(3)rules requirements, in addition to showing compliance with the specified limits, show that the fundamental emission bandwidth is constrained to the designated band segment and provide time domain data showing the maximum pulse duration and the maximum duty cycle within any three  $\mu$ s time window.

Re: not apply

If the radar device is to be certified under multiple rule parts, data shall be provided demonstrating compliance with the corresponding rule requirements. In addition, information shall be provided on how switching between modes is limited to 33-ms time increments.

Re: The Sum of Continuous Transmitter Off-times is 21ms, which is greater than the limit of 16.5 and meets the requirements of FCC standard (2402A51128E-RF-00BA2 report page 17)