



## RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-4592/22-01-08\_MPE\_FCC

| Certification numbers and labeling requirements |          |
|-------------------------------------------------|----------|
| FCC ID                                          | OAYARS6A |

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## 1. MPE at given distance (KDB 447498 D01 General RF Exposure Guidance v06)

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

where: S = Power density  
 P = Power input to the antenna  
 G = Antenna gain  
 R = Distance to the center of radiation of the antenna  
 PG = Output Power including antenna gain

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure"

| Frequency Range (MHz) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minutes) |
|-----------------------|-------------------------------------|--------------------------|
| 300 -1500             | f/1500                              | 30                       |
| 1500 - 100000         | 1.0                                 | 30                       |

where f = Frequency (MHz)

## 2. EUT technologies

Declared minimum safety distance: **20 cm**

| SRD Technology        | Frequency [MHz]  |                  | Reference # | Output Power [dBm] |                   |                     | Power Density [mW/cm <sup>2</sup> ] |                    | Share of Limit |
|-----------------------|------------------|------------------|-------------|--------------------|-------------------|---------------------|-------------------------------------|--------------------|----------------|
|                       | f <sub>Min</sub> | f <sub>Max</sub> |             | P <sub>ERP</sub>   | P <sub>EIRP</sub> | P <sub>RF Exp</sub> | S <sub>Result</sub>                 | S <sub>Limit</sub> | %              |
| Radio<br>76 to 77 GHz | 76000            | 77000            | A           | N/A                | 27.3              | <b>27.3</b>         | <b>0.11</b>                         | <b>1.00</b>        | <b>10.66%</b>  |

Referenced Documents:

| # | Results from:               |
|---|-----------------------------|
| A | Test Report 1-4592/22-01-03 |

## 3. Conclusion

This prediction demonstrates the following:  
 The power density levels for FCC at a distance of 20 cm are below the maximum levels allowed by regulations.

**Conclusion:** RF exposure evaluation is not required.