

SAR-based exemption for FCC-ID: V3THT800

Regarding the rule changes per FCC 19-126 Order

Title 47 §1.1307(b)(3)(i)(B):

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

SAR-based exemption calculation

Single RF source, calculated for $d = 0.5 \text{ cm}$ (worst case, actual antenna might be further away)

Frequency [MHz]	Transmitter Power (ERP) [mW]	Pth [mW]
550.1	12.71	16.61
579	12.07	15.46
607.9	12.11	14.43
614.1	7.32	14.23
615.9	7.25	14.17
652.1	12.00	13.08
662.9	12.07	12.78

Declaration

I hereby declare that the device with FCC-ID V3THT800 was determined to be exempt from routine evaluation as per Title 47 §1.1307(b)(3)(i)(B).



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