

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

Per §1.1307(b)(3)(i)

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (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). P_{th} 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);

5.2 Measurement Result

Frequency (MHz)	EPR _{20cm} (mW)	Distance (cm)	SAR-Based Exemption Threshold		Conducted output power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	SAR-Based Exemption
			(mW)	(dBm)				
462.5625	943.63	0.5	21.18	13.26	4.0	0	1.85	Compliant

Note: The Value of the Conducted output power including Tune-up Tolerance (dBm) was declared by client.

Result: Compliant. RF Exposure is exemption.

===== END OF REPORT =====