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1.0 Maximum Permissible Exposure Evaluation (Supplements the test report.)

The results of power measurement and intended use/proximity are compared against the requirements for safety of RF exposure.

1.2 Criteria

Section Reference	Date
KDB 447498 D01 Mobile Portable RF Exposure v05r01 // RSS-102 Issue 5 March 2015, Notice 2013 DRS0911	30 Aug 2017

1.3 Procedure

Using measurement of peak power and intended application, determine the permissible exposure level or whether additional exposure tests (SAR) are indicated. Justify conclusion for selected exposure area and separation distance.

1.4 Calculation

This device is operated typically outdoors and facing vehicle traffic lanes. The operating band is 24000-24250 MHz. Power is determined from the measured field strength. The uncontrolled public separation distance is 20 cm. Field density is calculated for devices operating above 6 GHz.

Table 1.4.1 Power Calculation

Measured Power Field Strength dBµV/m*	At Distance	EIRP Power dBm	Source Duty Cycle Factor dB	Calculated Average Power dBm	Calculated EIRP mW
100.8	3 m	5.6	0	5.6	3.6

*This is the peak measurement.

1.5 SAR Exemption and Field Density Calculation

The field density is determined at 20 cm as:

$S = EIRP / (4 \pi 20^2)$ Ref. FCC Bulletin OET-65 Equation (4)
$S = 3.6 \text{ mW} / 5026.55 \text{ cm}^2$
$S = 0.001 \text{ mW/cm}^2$

Therefore, the device meets the applicable FCC and ISED SAR exemption requirements.

Signed:

Eric Lifsey

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