



Canada

Exhibit: RF Exposure – FCC

FCC ID: 2A6KHMERS10

Report File #: 7169011370RA-000

Client	Mero Technologies Inc.	
Product	Traffic V3, Paper SB8.1	
Standard(s)	FCC Part 15 Subpart 15.247 FCC KDB 447498 v06	

RF Exposure – FCC

The device is a mobile device intended to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure and the body of the user or nearby persons.

The EUT contains a 2400 – 2483.5 MHz DTS transmitter.

RF Exposure Exemption Evaluation: Mobile Devices

Mobile devices are exempted from routine MPE evaluation based on guidance provided in FCC §1.1307 (b)(3)(i)(C) for devices operating from 300 kHz to 100 GHz with a minimum separation distance of $\lambda/2\pi$ and with an ERP lower than the Threshold ERP.

The Threshold ERP is given in Table 1 to § 1.1307(b)(3)(i)(C).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2f$.
1,500-100,000	$19.2R^2$.

Where R is the separation distance in meters and f is the frequency in MHz.

The table below lists the minimum separation distance $\lambda/2\pi$ for the lowest channel of operation for the DTS transmitter.

RF Source frequency (MHz)	Minimum separation Distance (cm)
2402	1.99

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The declared separation distance by the client is 20 cm.

The table below lists the Threshold ERP at 20 cm for the lowest channel of operation for the DTS transmitter.

RF Source frequency (MHz)	Threshold ERP (Watts)	Threshold ERP (mW)	Threshold ERP (dBm)
2402	0.768	768.0	28.85

Given that $EIRP = P_{out} + G$ and $ERP = EIRP - 2.15$

Where P_{out} = Output power of EUT, and G = antenna gain

Therefore, $ERP = P_{out} + G - 2.15$

Threshold ERP Calculation: 2402 – 2480 MHz DTS transmitter

The DTS transmitter has a maximum conducted (peak) output power of 3.10 dBm and an antenna gain of 0.5 dBi.

The ERP of the EUT is $3.10 \text{ dBm} + 0.5 \text{ dBi} - 2.15 = 1.45 \text{ dBm}$ (0.0014 W) which is significantly less than the Threshold ERP of 0.768 W exemption limit.

Conclusion

The EUT qualifies for standalone testing exemption.