



Compliance Engineering Ireland Ltd

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Project Number: 11E3273-1

FCC ID Z4GK116

Prepared for:

Kelsius

By

Compliance Engineering Ireland Ltd
Raystown

Ratoath Road

Ashbourne
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FCC Site Registration: 92592
Industry Canada Assigned Code: 8517A

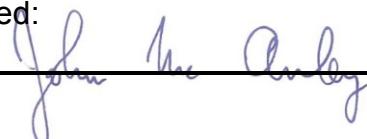
Date

11 January 2012

FCC EQUIPMENT AUTHORISATION
Test Report

EUT Description
Wireless Transceiver Module K116

Authorised:

A handwritten signature in blue ink that reads 'John McAnally'.

List of Exhibits

1 Maximum Permissible Exposure

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF COMPLIANCE ENGINEERING IRELAND LTD

RF Exposure Exhibit– Technical Report

Kelsius

Applicant Name and Address

The system covered under this authorisation report was designed, manufactured and assembled by Kelsius Ltd. The company's full name and mailing address is given below:

**Unit 6, Ballyconnell
Industrial Estate, Falcarragh,
Co Donegal,
Ireland**

Model Name

The model number for the EUT covered under this application report is:

Wireless Transceiver Module K116

1.0 Maximum Permissible Exposure

Prediction of MPE limit at a given distance

Equation from OET Bulletin 65

$$S = \frac{PG}{4\pi R^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 28 (dBm)

Maximum peak output power at antenna input terminal: 630 (mW)

Antenna gain(typical): 2.15 (dBi)

Maximum antenna gain: 1.64 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 913 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm²)

Power density at prediction frequency: 0.205 (mW/cm²)

Maximum allowable antenna gain: 4.65 (dBi)