



## Test Report

Prepared for: Silent Tech Holdings Pty Ltd

Model: RFM22B

Description: Radio Transceiver Module

FCC ID: 2AFM2-XK420

IC: 20657-XK420

Serial Number: N/A

To

FCC Part 1.1310

Date of Issue: September 3, 2015

On the behalf of the applicant:

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Alex Macon  
Project Test Engineer

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	July 29, 2015	Alex Macon	Original Document



**ILAC / A2LA**

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The tests results contained within this test report all fall within our scope of accreditation, unless below

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Testing Certificate Number: **2152.01**



**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

**Non-accredited tests contained in this report:**

**N/A**

**EUT Description**

**Model:** RFM22B

**Description:** Radio Transceiver Module

**Serial Number:** N/A

**Additional Information:**

The EUT is a Wetness Sensor to be used in a Remote Control Leak Detection System which incorporates a 900 MHz radio with an integral antenna.



### Average Power calculations

Average Power = Peak Power \* duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
915.5	29 mW	100	29 mW

**T****MPE Evaluation**

This is a fixed device used in Uncontrolled Exposure environment.

**Limits Uncontrolled Exposure****47 CFR 1.1310****Table 1, (B)**

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

**Test Data**

Test Frequency, MHz	915.5
Power, Conducted, mW (P)	29
Antenna Gain Isotropic	0 dBi
Antenna Gain Numeric (G)	1.0
Antenna Type	integral
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$			
Power Density (S) mw/cm <sup>2</sup>	Power mW (P)	Numeric Gain (G)	Distance (r <sup>2</sup> ) cm
0.0057695368	29	1	20

Power Density (S) =0.006
Limit =(from above table) = 1.0

**END OF TEST REPORT**