



**F2 Labs**  
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## **CERTIFICATION TEST REPORT**

**Manufacturer:** Structured Mining Systems, Inc.  
d.b.a. Cervis Inc.  
170 Thorn Hill Road  
Warrendale, Pennsylvania 15086  
United States of America

**Applicant:** Same As Above

**Product:** SmaRT 900 MHz 9H Radio Module

**Model:** SRF309

**FCC ID:** LOBSRF309

**Testing Commenced:** Feb. 20, 2014

**Testing Ended:** Mar. 7, 2014

**Summary of Test Results:** Page 4

**Standards:**

- OET FCC Bulletin 65
- KDB447498

**Evaluation Conducted by:** \_\_\_\_\_  
Ken Littell, EMC Tech. Mgr.

**Report Reviewed by:** \_\_\_\_\_  
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## 1 ADMINISTRATIVE INFORMATION

### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### 1.2 Measurement Procedure:

All measurements were performed according to FCC Part 15 and KDB558074.

### 1.4 Document History

Document Number	Description	Issue Date	Approved By
F2LQ5978-04E	First Issue	June 20, 2014	W. Fuster



## 2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	OET FCC Bulletin 65 KDB447498	Complies

Note: Product was operated using AAA batteries.

Modifications Made to the Equipment
None



### **3 ENGINEERING STATEMENT**

This report has been prepared on behalf of Cervis Inc. to provide documentation for the testing described herein. This equipment has been tested and found to comply with OET FCC Bulletin 65 and KDB447498. The test results found in this test report relate only to the items tested.



#### **4 EUT INFORMATION AND DATA**

##### **4.1 Equipment Under Test:**

Product: SmaRT 900 MHz 9H Radio Module

Model: SRF309

Serial No.: None

FCC ID: LOBSRF309

##### **4.2 Trade Name:**

Structured Mining Systems, Inc. d.b.a. Cervis Inc.

##### **4.3 Power Supply:**

**Non-rechargeable AAA Batteries**

##### **4.4 Applicable Rules:**

- **OET FCC Bulletin 65**
- **KDB447498**

##### **4.5 Equipment Category:**

Radio Transmitter-DTS

##### **4.6 Antenna:**

1.49dBi Chip Antenna

2dBi & 9dBi gain Whip Antennas

##### **4.7 Accessories:**

N/A

##### **4.8 Test Item Condition:**

The equipment to be tested was received in good condition.



## 5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

### 5.1 Requirements:

**Limit:** .604mW/cm<sup>2</sup>

**Formula used for result:**  $\frac{E.I.R.P.}{4 \pi R^2}$

**Results:** E.I.R.P. with 9dBi Whip antenna: 57.68mW at the 906 MHz Low Channel, which is the highest.

$$\frac{57.68mW}{4 \pi R^2} = \frac{57.68mW}{5026.55} = .01147507mW/cm^2$$

### **SAR Exemption Statement for the 1.49dBi Integral Chip Antenna and optional 2dBi external whip antenna:**

The minimum antenna-to-user separation distance is 5mm; however, the device is exempt from SAR testing for <20cm separation due to the low output power. The limit of 16mW in accordance with KDB 447498 is not exceeded.