

# RF Exposure Report

**Project Number: 3543741**

**Report Number: 3543741EMC25**

**Client: Radio Systems Corporation**

**Equipment Under Test: SportDog TEK 2.0 GPS Unit**

**Model: SDT52-14790**

**FCC ID: KE3-3002862**

**Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498**

**FCC KDB 447498 D01 General RF Exposure Guidance v06**

*Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

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## 1 General Information

### 1.1 Client Information

Name: Radio Systems Corporation  
Address: 10427 Petsafe Way  
City, State, Zip, Country: Knoxville, TN 37932, USA

### 1.1 Test Laboratory

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA  
Type of lab: Testing Laboratory  
Certificate Number: 3212.01

### 1.2 General Information of EUT

Equipment Under Test: SportDog Tek 2.0 GPS Unit  
Model: SDT52-14790  
Serial Number: GNAR-50105

Frequency Range: 915.0125 MHz to 916.2375 MHz  
Modulation: GFSK  
Antenna: 1 dBi whip antenna, non-detachable

Rated Voltage: 3.7 Vdc internal battery  
Test Voltage: Fully charged

Sample Received Date: 12 February 2020  
Dates of testing: 24 February to 17 March 2020

### 1.3 Operating Modes and Conditions

The EUT was configured in software to allow the EUT to run continuously exercising all modes of operation.

- Exercising was performed with test mode software designed to allow the EUT to operate
  - at normal operating duty cycle
  - hopping enabled
  - hopping stopped and transmitting on low and high channels
  - modulation enabled

## 2 RF Exposure

### 2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

### 2.2 Test Method

Using the maximum power (including tune-up tolerances), the power density was calculated. Maximum antenna gain was assumed for this exercise.

### 2.3 Single transmission RF Exposure Levels (mW/cm<sup>2</sup>)

Type of Evaluation:	FCC
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Maximum Power at the antenna:	24.74 dBm
Duty Cycle:	4.5 %

Average Power at the antenna:	11.29 dBm
Average Power at the antenna:	0.01 Watts
Antenna gain:	1 dBi
Distance of interest:	20 cm
Frequency of operation:	915.0125 MHz

**Estimated RF Power Density: 0.0337 W/m<sup>2</sup>**

	Controlled Environment	Uncontrolled Environment
Limit of Maximum Permissible Exposure (MPE)	30.5 W/m <sup>2</sup>	6.1 W/m <sup>2</sup>
Distance to Compliance From Centre of Antenna	0.26 inches 0.66 cm	0.59 inches 1.49 cm
In Compliance at distance of interest?	Yes	Yes