

RF Exposure Report

Project Number: 4120511EMC01

Report Number: 4120511

Revision Level: 0

Client: Emergency Traffic Systems, Inc.

Equipment Under Test: Emergency Vehicle Pre-Emption Transmitter

Model: TR-1

FCC ID: 2AK93TR1

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

FCC OET Bulletin 65 Supplement

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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2.4	SIMULTANEOUS TRANSMISSION RF EXPOSURE LEVELS	ERROR! BOOKMARK NOT DEFINED.

1 General Information

1.1 Client Information

Name: Emergency Traffic Systems, Inc.
Address: 540 West 18th St
City, State, Zip, Country: Erie, PA, 16502, USA

1.2 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

1.3 General Information of EUT

Type of Product: Emergency Vehicle Pre-Emption Transmitter
Model Number: TR-1
Serial Number: 3906-160004

§90.207 Type of emission A3N

Rated Voltage: 12.6Vdc
Tested Voltage: 12.6Vdc
Sample Received Date: 10 March 2017
Dates of testing: 05 to 07 April 2017

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured conducted power was considered.

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 measured conducted power, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density $EIRP_{avg}/(4\pi R^2)$ mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
9700kHz Tone	39.6	36.5	0.0	0.0	36.5	4467	45	0.176	0.20	88%	Pass