



Report No. : OT-204-RWD-046

# **EMF TEST REPORT**

Test Report No. : OT-204-RWD-046

AGR No. : A203A-094

**Applicant** : Continental Automotive Systems Corporation

Address : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea

Manufacturer : Continental Automotive Systems Corporation

Address : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea

Type of Equipment : Remote Keyless Entry System(Transmitter)

FCC ID. : SY5SKRGE03

Model Name : SVI-SKRGE03

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 7 pages (including this page)

Date of Incoming : March 10, 2020

Date of issue : April 08, 2020

#### **SUMMARY**

The equipment complies with the regulation; FCC PART 15 SUBPART C Section 15.209 and Section 15.231

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:

Ha-Ram, Lee / Manager ONETECH Corp. Approved by:

Jae-Ho Lee / Chief Engineer ONETECH Corp.



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# **Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-204-RWD-046	April 08, 2020	Initial Issue	All



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# 1. VERIFICATION OF COMPLIANCE

Applicant : Continental Automotive Systems Corporation

Address : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea

Contact Person : S. M. Jang / Representative

Telephone No. : 82-31-645-4864 FCC ID : SY5SKRGE03 Model Name : SVI-SKRGE03

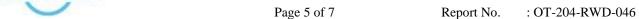
Serial Number : N/A

Date : April 08, 2020

EQUIPMENT CLASS	DSC - Part 15, Security/Remote Control Transmitter	
E.U.T. DESCRIPTION	Remote Keyless Entry System(Transmitter)	
THIS REPORT CONCERNS	Original Grant	
MEASUREMENT PROCEDURES	ANSI C63.10: 2013	
TYPE OF EQUIPMENT TESTED	Pre-Production	
KIND OF EQUIPMENT		
AUTHORIZATION REQUESTED	Certification	
EQUIPMENT WILL BE OPERATED	FOG DADE 15 SUPPARE OF SUCLEMENT 200 and 5 201	
UNDER IC RULES PART(S)	FCC PART 15 SUBPART C Section 15.209 and Section 15.231	
Modifications on the Equipment to Achieve	None	
Compliance	None	
Final Test was Conducted On	3 m, Semi Anechoic Chamber	

<sup>-.</sup> The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.





# 2. GENERAL INFORMATION

#### 2.1 Product Description

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The Continental Automotive Systems Corporation, Model: SVI-SKRGE03 (referred to as the EUT in this report) is a Transmitter that it controls locking and unlocking the door of a vehicle. Product specification information described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic
TX FREQUENCY	433.92 MHz
RX FREQUENCY	125 kHz
MODULATION	FSK
LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>= 1 MHz)	13.08 MHz
DUTY CYCLE FACTOR	9.63 dB (Duty Cycle : 32.9 %)
ANTENNA TYPE	Built-in on the PCB in EUT
ANTEENA GAIN	-21.63 dBi
RATED SUPPLY VOLTAGE	DC 3 V from a battery

#### 2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

# 3. EUT MODIFICATIONS

-. None



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# 4. RF Exposure Evaluation

# 4.1 Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to the procedure, KDB 447498 D06, the standalone SAR test exclusion threshold is [(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)]  $X [\sqrt{f(GHz)}] < 3$ 

**4.2 EUT Description** 

Operating Frequency Band	TX: 433.92 MHz RX: 125 kHz
MAX. RF OUTPUT POWER	$84.38 \text{ dB}\mu\text{V/m}$
Antenna Gain	-21.63 dBi
Exposure Evaluation Applied	□ MPE □ SAR
Evaluation ripplied	■ SAR Exemption



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#### 4.3 Test Result of SAR Exclusion for Portable Devices

[(Max. Power of channel, including tune-up tolerance, mW)/(Min. test separation distance, mm)] X [  $\sqrt{f(GHz)}$ ] = (-3.91/5) X  $\sqrt{0.433}$  92 = 0.054 < 3

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
433.92	-4.41 ± 0.5	-3.91	0.41	5	0.054

Tested by: Sieon Lee / Assistant Manager