

FCC COMPLIANCE REPORT

Order No.	: STR-07-0068/G
Reference No.	: STK-07-EMCG0061
Applicant	: Omron Automotive Electronics Korea Co., Ltd.
Address of Applicant	: Ace Techno 10-cha 701, 470-5, Gasan-Dong,
	Gumcheon-gu, Seoul, 153-789, Korea
Manufacturer	: Omron Automotive Electronics Korea Co., Ltd.
Address of Manufacturer	: 492, Gayul-ri, Bogae-myeon, Anseong-city,
	Kyeonggi-do, 456-871, Korea

Equipment Under Test (EUT) :

Name	: RF Keyless Entry System (Receiver)
Model No.	: OKA-751R
FCC ID	: OSLOKA-751R

Standards : FCC Part 15:2005, Subpart B, Class B ANSI C63.4:2003 CISPR 22:1997 CISPR 16-1:2003

Date	of	Receipt	*	09	March	2007
Date	of	Test	*	14	March	2007
Date	of	Issue	a A	29	March	2007

Test Result :	PASS	
In the configuration	tested the FLIT complied with the standards specified above	_

In the configuration tested, the EUT complied with the standards specified above. 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.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Carl Lee EMC DIV. Manager SGS Testing Korea Co., Ltd.

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant	: Omron Automotive Electronics Korea Co., Ltd.
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	Kyeonggi-do, 456-871, Korea

1.2 General Description of EUT

Name	: RF Keyless Entry System (Receiver)
Model No.	: OKA-751R
Serial No	: None
FCC ID	: OSLOKA-751R

1.3 Details of EUT

Operating Frequency	: 313.85 MHz
Tested Power Supply	: DC 12V
Port	: Power & Signal Port
Description of Operati	ng : Operate it continually.
Modifications to the E	JT: None

1.4 Description of Support Units

Product	Model No.	Serial No.	Manufacturer
RF Keyless Entry System (Transmitter)	OKA-310T	N/A	Omron Automotive Electronics Korea Co., Ltd.
DC Power Supply	DGT-300	9830021	Daegil

1.5 System Configuration

	Start	END		D Cable Spec	
Name	I/O Port	Name	I/O Port	Length	Shield
EUT	Power & Signal	JIG(switch)	Power & Signal	1.0	Unshielded



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1.6 System Configuration

Description	Model	Serial No.	Manufacturer
Main Board	MG-BCM-07MY	310T	-

1.7 Test Set-Up Configuration



1.8 Measurment Procedure

Conducted Emission Testing was performed according ANSI C63.4:2003 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall. Radiated Emission Testing was performed according to ANSI C63.4:2003 at the open field test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum. The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.



1.9 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B, CLASS B

Test Standards	Status
FCC Part 15,Subpart B, Class B	Applicable
Deviation from Standard	No Deviation

1.10 Summary of Results

The data collected shows that Model **OKA-751R** complies with Part 15.109 of FCC Technical Rules. The highest emission level observed was at 108.62MHz radiated emission with a margin of 8.54dB.



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Radio Disturbance

2.1 Test Results

	Results
Conducted Emission	N/A
Radiated Emission	PASS

Note : This device is power supplied from Car Battery. So, the conducted emission is not performed.

2.2 Frequency Range

Conducted Emission	: 150 kHz - 30 MHz
Radiated Emission	: 30 MHz - 1000 MHz

2.3 Limits Of Conducted And Radiated Emission

2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B

FREQUENCY	Class A	(dBuV)	Class B (dBuV)		
(MHz)	Quasi - peak	Average	Quasi - peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

2.3.2 Limit Of Radiated Emission Of FCC Part 15, Subpart B

FREQUENCY	Class A (at 10m)*	Class B (at 10m)*
(MHz)	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

* Detector Function : Quasi - Peak



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2.4.Test of Conducted Emission

2.4.1 Test Equipments

Equipment Manufacturer		Model No.	Date of Calibration	
Test Receiver	ESHS 10	Rohde & Schwarz	Aug. 2006	
TWO-LINE NNB 41 V-NETWORK		SCHAFFNER	Sep. 2006	
TWO-LINE V-NETWORK	ENV216	Rohde & Schwarz	Jan. 2007	

2.4.2 Test Site

Name and address : SGS Testing Korea Co., Ltd.

18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea, 435-041

2.4.3 Operating Environment

Temperature : degree C	Humidity :	%RH
Atmospheric Pressure : mBar		

2.4.4 Measurement Data

Measurment Bandwidth : 9kHz

Date of Test :

FREQ.	LEVEL	_(dBµV)	LINE	LIMIT(dBµV)		MARGIN(dB)	
(MHz)	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
			N/A				
* Measu	rements usir	na CISPR au	asi-neak n	nde			

Measurements using CISPR quasi-peak mode

eA

M. J. Lee / Test Engineer



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2.5 Test of Radiated Emission

2.5.1 Test Instruments

Description	Manufacturer	Model No.	Date of
			Calibration
Amplifier	8447F	HP	Jul. 2006
Test Receiver	ESVS10	Rohde & Schwarz	Apr. 2006
Bi-Log Antenna	HL562	Rohde & Schwarz	Sep. 2006
Spectrum Analyzer	8593E	HP	Sep. 2006

2.5.2 Test Site

Name and address : SGS Testing Korea Co., Ltd.

18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea, 435-041

2.5.3 Operating Environment

Temperature : 23.5 degree C Humidity : 33.0 %RH Atmospheric Pressure : 1000 mBar

2.5.4 Measurement Data

Measurment Bandwidth : 120 kHz

Date of Test : March, 14, 2007

FREQ. (MHz)	LEVEL (dBµV)	POL (H/V)	AF (dB)	CL (dB)	F/S (dBµV/m)	LIMIT (dBµV/m)	MARGIN (dBµV)
108.62	21.0	Н	9.24	1.20	31.46	40.0	8.54
113.43	13.8	Н	9.44	1.23	24.46	40.0	15.54
210.53	19.8	Н	7.75	1.69	29.19	40.0	10.81
222.64	17.9	Н	8.38	1.73	28.02	40.0	11.98

AF = Antenna Factor. ** CL = Cable Loss

*** Margin=Each Frequency Limit Level(dBuV) - (Level+AF+CL)

M. J. Lee / Test Engineer



- 3. Photographs of Test
 - Front View of Conducted Emission



• Rear View of Conducted Emission

N/A



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• Front View of Radiated Emission



• Rear View of Radiated Emission

