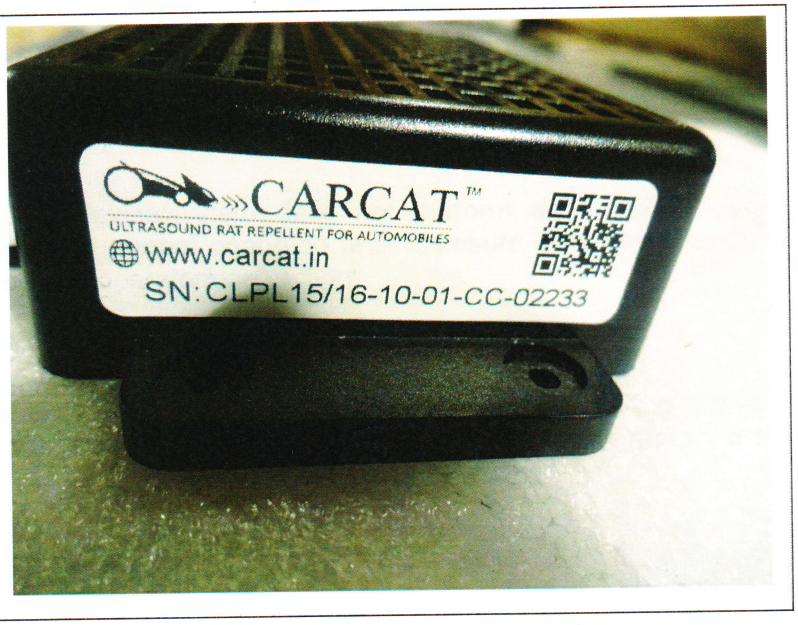
CONFIDENTIAL

TEST REPORT

Report No. ARAI/AED/CT/OC-1617-2336/268
Dated: 28-Jun-2016

Certificate No.: T-1537

1.0	Name and Address of the Customer	Custom Logics PVT LTD A/5/24, Gurudatta BLDG, R.B.Meheta Marg, Patel Chowk, Ghatkopar(E), Mumbai – 400077, Maharashtra	
2.0	Customer Letter Reference	E-mail Dated: 02-Jun-2016	
3.0	Description of the Device Under Test (DUT)	**DUT Name**	CARCAT - Ultrasound Rat repellent for Automobiles
		Model Name	CARCAT - Ultrasound Rat repellent for Automobiles
		Model No.	CC
		Part No.	CC
		Software Version	F_VER-3
		Hardware Version	MAR2015
4.0	Test Objective	To carry out EMI/EMC tests as per details given in table 8.0	
5.0	Condition of the Test Component	The test component was received in good condition.	



P S SHINKAR ENGINEER	M M DESAI Dy. GENERAL MANAGER	A A DESHPANDE Dy. DIRECTOR & HOD

6.0 Functionality Verification :

DUT was CARCAT - ultrasound Rat Repellent device, powered with 13.5V DC supply. It continuously transmits ultrasonic waves in the range of 20KHz to 60KHz. The amplitude of transmitted Ultrasonic signal was between 40-110dB. CARCAT is used to protect the vehicle wiring harness, ducts, plastic parts, foam, etc from Rats and Rodents. During the test dB level of transmitted ultrasonic signal was monitored on ultrasonic frequency and dB level meter.

7.0 Functional Status Classification:

7.1 Class A :

All functions of a device/system perform as designed during and after exposure to disturbance.

7.2 Class B :

All functions of a device/system perform as designed during exposure: however, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions remain Class A.

7.3 Class C :

One or more functions of a device/system does not perform as designed during exposure but returns automatically to normal operation after exposure is removed

7.4 Class D :

One or more functions of a device/system does not perform as designed during exposure and does not return to normal operation until exposure is removed and the device/system is reset by simple „operator/use“ action.

7.5 Class E :

One or more functions of a device/system does not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

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8.0 Test Details:

Sr. No.	Test Title	Annexure No.	Number of Pages	Reference Standard	Acceptance Criteria as per Standard	Functional Status Classification
1.0	Conducted Immunity on Supply Line	01	06	AIS004:Part3 :2009		
1.1	Pulse 1				Class C	Class C
1.2	Pulse 2a				Class B	Class A
1.3	Pulse 2b				Class C	Class C
1.4	Pulse 3a				Class A	Class A
1.5	Pulse 3b				Class A	Class A
1.6	Pulse 4				Class B/C	Class B
2.0	Radiated Immunity Test				-	Pass
2.1	Bulk Current Injection (BCI) Method	02	05			
2.2	Radiated Immunity (ALSE Method)	03	05			
3.0	Radiated Emission Test	04	05		-	Pass
4.0	Conducted Transient Emission	05	04			
4.1	Positive Transient Emission				+75V	Pass
4.2	Negative Transient Emission				-100V	Pass

9.0 Conclusion :

DUT complies with the requirements as per AIS004:Part3: 2009.

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