

An IIA Company

RF Exposure Evaluation Report

APPLICANT	COBRA ELECTRONICS CORPORATION	
ADDRESS	6500 WEST CORTLAND STREET CHICAGO IL 60707 USA	
FCC ID BBORDCAM		
MODEL NUMBER	RADAR DETECTOR + DASH CAMERA	
PRODUCT DESCRIPTION	RADAR DETECTOR	
FINAL TEST DATE	04/19/2019	
PREPARED BY	Tim Royer	
TEST RESULTS	🖾 PASS 🗌 FAIL	

Report Number	Report Version	Description	Issue Date
429CUT19RF Exp MPE Rpt	Rev2	Updated	04/19/2019

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



TABLE OF CONTENTS

GENERAL REMARKS	2
GENERAL INFORMATION	3
ANTENNA INFORMATION	3
MPE CALCULATION	4
MPE LIMITS	4
MPE TABLE	5
GENERAL UNCONTROLLED EXPOSURE	.5



GENERAL REMARKS

Summary

The device under test does:

Fulfill the general approval requirements as identified in this test report and was selected by the customer.

Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

Prepared by:



Name and Title	Tim Royer, Project Manager / EMC Testing Engineer	
Date	04/19/2019	



GENERAL INFORMATION

EUT Description	RADAR DETECTOR		
Model Number	RADAR DETECTOR + DASH CAMERA		
EUT Power Source	□110–120Vac, 50– 60Hz	⊠ DC Power	□ Battery Operated
Test Item	Engineering Prototype	☑ Pre-Production	Production
Type of Equipment	□ Fixed	🛛 Mobile	Portable
Antenna Connector	N/A		
Test Conditions	The temperature was 26°C Relative humidity of 50%.		
Modification to the EUT	No Modification to EUT.		
Applicable Standards	FCC CFR 47 Part 2.1091		
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. Designation #: US1070		

ANTENNA INFORMATION

Manufacturer Provides Antenna	Туре	Max Gain (dBi)
No	Unspecified	0 dBi

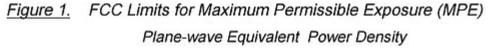


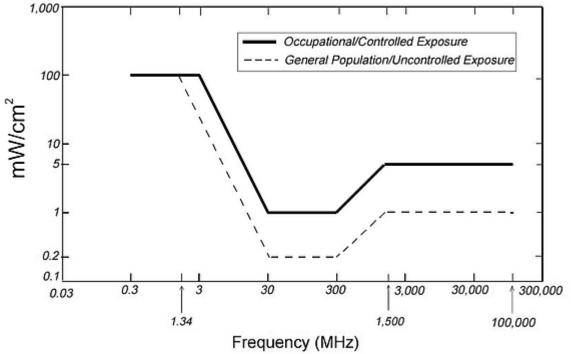
MPE CALCULATION

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

MPE LIMITS







MPE Table

General Uncontrolled Exposure

The limit for General Uncontrolled Exposure Environment is calculated as shown in FCC Pt. 1.1310, Table B:

Variable	Value
Max Power	62.95 mW
Frequency Range	2402 – 2480 MHz
Duty Cycle (at full power)	100%
Max Antenna Gain	0 dBi
Coax Loss	0 dB
Power Density	0.01252 mW/cm ²
Minimum Separation Distance	20 cm

