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RF Exposure Evaluation Report

APPLICANT	COBRA ELECTRONICS CORPORATION
	6500 WEST CORTLAND STREET CHICAGO IL 60707 USA
FCC ID	BB075WXSTA
MODEL NUMBER	75WXST
PRODUCT DESCRIPTION	COMPACT REMOTE MOUNT CB RADIO
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Tim Royer

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

GENERAL REMARKS

Attestations

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

I attest that the necessary evaluations were made, under my supervision, at:

**Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669**



Authorized Signatory Name:

Tim Royer

Engineering Project Manager

Date: 4/11/2018

Applicant: COBRA ELECTRONICS CORPORATION
FCC ID: BBO75WXSTA
Report: 444UT18RF EXP MPE RPT.DOCX

RF Exposure Requirements

General information

Device type: COMPACT REMOTE MOUNT CB RADIO

Antenna

The manufacturer does not specify an antenna, but a typical antenna has a gain of 0 dBi.

Antenna p/n	Type	Max. Gain (dBi)
Any	omni	0

Operating configuration and exposure conditions:

The conducted output power is shown in the table below. Typical use qualifies for a maximum duty cycle factor of 100%.

MPE Calculation:

The minimum separation distance is calculated as follows:

$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$	Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$
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The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.1310, Table 1.

Minimum Separation Distance for Mobile or Fixed Devices
General Population/Uncontrolled Exposure

Insert values in yellow highlighted boxes to determine Minimum Separation Distance

Max Power	3.99 W	<i>equals</i>	Max Power	3990 mW
Duty Cycle	100 %	<i>equals</i>	Duty Factor	1 numeric
Antenna Gain	0 dBi	<i>equals</i>	Gain numeric	1 numeric
Coax Loss	0 dB		Gain - Coax Loss	1 numeric
Power Density	0.2 mW/cm ²			
Frequency	26.965 MHz			

Enter power Density from the chart to the right

Rule Part 1.1310, Table 1 (B)

Frequency range	Power den	Enter this value
MHz	mW/cm ²	mW/cm ²
0.3-1.34	100	100
1.34-30	180/f ²	0.2
30-300	0.2	0.2
300-1,500	f/1500	0.0
1,500-100,000	1	1

f = frequency in MHz

Minimum Separation Distance 39.84433 cm

Minimum Separation Distance	40 cm	0.40 m
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Minimum Separation in Inches 15.67476 Inches

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Applicant: «ApplicantName»
FCC ID: «GranteeCode»«EquipmentProductCode»
Report: «TimcoDir»\RF Exposure Rpt