



RF EXPOSURE EVALUATION

1. TEST RESULT CERTIFICATION

Applicant	Cobra Electronics Corporation
Address	1701 Golf Road Suite 3-900 Rolling Meadows Illinois 60008 United States
manufacturer	Cobra Electronics Corporation
Address	1701 Golf Road Suite 3-900 Rolling Meadows Illinois 60008 United States
Factory	Cobra Electronics Corporation
Address	1701 Golf Road Suite 3-900 Rolling Meadows Illinois 60008 United States
Product Designation:	CB Radio
Brand Name:	COBRA
Test Model:	CCBR75AR01
FCC ID:	BBO75AR01
Date of receipt of test item	Oct.21, 2025
Date of Test	Oct.21, 2025~Nov. 07, 2025

2. TECHNICAL INFORMATION

A major technical description of EUT is described as following:

Operation Frequency	26.965MHz-27.405MHz
Modulation	AM/FM
Antenna Designation	Detachable
Antenna type	External Antenna
Output power	4W
Antenna gain	0dBi (Typical), 5dBi (Max)
Power Supply	DC 13.8V

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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3.RF EXPOSURE MEASUREMENT

3.1 INTRODUCTION

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 20 cm for performing reliable field measurements to determine adherence to MPE limits.

If the minimum separation distance between a transmitter and nearby persons is more than 20 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. When applicable, operation instructions and prominent warning labels may be used to alert the exposed persons to maintain a specified distance from the transmitter or to limit their exposure durations and usage conditions to ensure compliance.

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3.2 FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
0.3 -- 1.34	614	1.63	(100)*	30
1.34 -- 30	824/f	2.19/f	(180/f ²)*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

*Note:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

3.3 CLASSIFICATION OF THE ASSESSMENT METHODS

According to user manual, The antenna of the product, under normal use condition is at least 65cm away from the body of the user. Warning statement to the user for keeping at least 65cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

3.4 EUT OPERATION CONDITION

Make the EUT to transmit at Bottom channel, Middle channel and Top channel individually.

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Note: report the worst result in this part

Antenna Gain=5.0dBi (Numeric 3.16), $\pi=3.141$

TEST Frequency (MHz)	Tune-up Tolerance (dBm)	Max tune-up (dBm)	Max tune-up (mW)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Result (Pass/Fail)
26.965 AM	35.5 ± 0.5	36.0	3981.0717	0.236991321	0.2432	Pass

Antenna Gain=5.3dBi (Numeric 3.39), $\pi=3.141$

TEST Frequency (MHz)	Tune-up Tolerance (dBm)	Max tune-up (dBm)	Max tune-up (mW)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Result (Pass/Fail)
2440 BT	5.0 ± 0.6	5.60	3.630780548	0.00023187	1.0	Pass

Note:

1. The output power is refer to **AGC01284220704FE10A**.
2. According to the user manual, the minimum separate distance which used for MPE calculate is 65cm.

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