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**FCC PART 95 CLASS II PERMISSIVE CHANGE
 FRS/GMRS TRANSCEIVER
 TEST REPORT**

APPLICANT	COBRA ELECTRONICS CORPORATION
	6500 WEST CORTLAND STREET CHICAGO IL 60707 USA
FCC ID	BBOCXR800
IC CERT #	906B-CXR800
PRODUCT DESCRIPTION	FRS/GMRS TRANSCEIVER
DATE SAMPLE RECEIVED	2/9/2009
DATE TESTED	2/12/2009
TESTED BY	Joe Scoglio
APPROVED BY	Mario de Aranzeta
TIMCO REPORT NO.	276UT9TestReport.doc
TEST RESULTS	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

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





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STATEMENT OF CONTINUED COMPLIANCE

The test results relate only to the items tested.

Summary

The device under test does:

- fulfill the requirements as identified in this test report
 not fulfill the requirements as identified in this test report

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.

No modifications were made to the equipment during testing in order to demonstrate continued compliance with these standards.

I attest that measurements were made, by me, or under my supervision, at TIMCO ENGINEERING, INC. 849 N.W. State Road 45, Newberry, Florida 32669.

Authorized Signatory Name: Mario de Aranzeta C.E.T.



Signature:

Function: Engineer/Lab Supervisor

Date: 2/24/2009

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GENERAL INFORMATION

DUT Specification

DUT Description	FRS/ GMRS TRANCEIVER
FCC ID	BBOCXR800
IC Cert #	906B-CXR800
Operating Frequency	462.5500-462.7250, 462.5625-467.7125
No. of Channels	22
Type of Emission	10K5F3E
Modulation	FM
DUT Power Source	<input type="checkbox"/> 110-120Vac/50- 60Hz
	<input type="checkbox"/> DC Power
	<input checked="" type="checkbox"/> Battery Operated Exclusively
Test Item	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input checked="" type="checkbox"/> Portable
Antenna	Fixed (not removable)
Test Facility	Timco Engineering Inc. located at 849 NW State Road 45 Newberry, FL 32669 USA.
Modifications	None
Test Exercise	The DUT was placed in continuous transmit mode of operation
Applicable Standards	ANSI/TIA 603-C:2004, ANSI 63.4:2003 FCC CFR 47 Part 2 and Part 95,
Laboratory Environmental Conditions	TEMPERATURE: 76 F HUMIDY: 55%

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TEST PROCEDURES

Power Output: RF power was conducted per ANSI/TIA 603-C:2004 using the substitution method

Radiation Interference: The test procedure used was ANSI/TIA 603-C:2004 using an Agilent spectrum receiver with pre-selector. The bandwidth (RBW) of the spectrum receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a micro volt at the output of the antenna.

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RF POWER OUTPUT

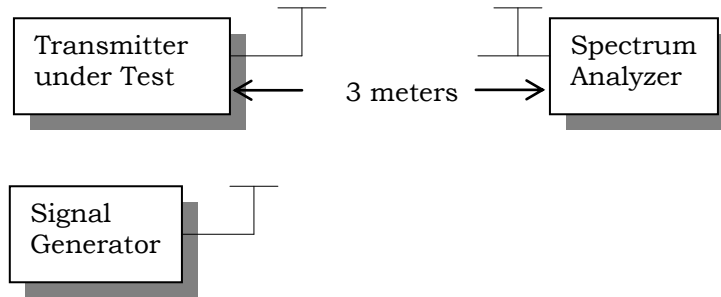
Rule Part No.: 2.1033(c)(6)(7), 2.1046(a), Part 95, RSS-210

Requirements: Power output shall not exceed 0.50 Watts effective radiated power for the FRS channels. There can be no provisions for increasing the power or varying the power. No GMRS channel, under any condition of modulation, shall exceed:

1. 50W Carrier power (average TP during one modulated RF cycle) when transmitting emissions type A1D, F1D, G1D, A3E, F3E, or G3E.
2. 50W peak envelope TP when transmitting emission type H1D, J1D, R1D, H3E, J3E, or R3E.

Method of Measurement: RF power is measured as ERP as the antenna is permanently attached. The substitution method was used. With a nominal battery voltage, and the transmitter properly adjusted the RF output measures:

Test Setup Diagram:



Test Data:

OUTPUT POWER: GMRS: 1.78
FRS: 0.38

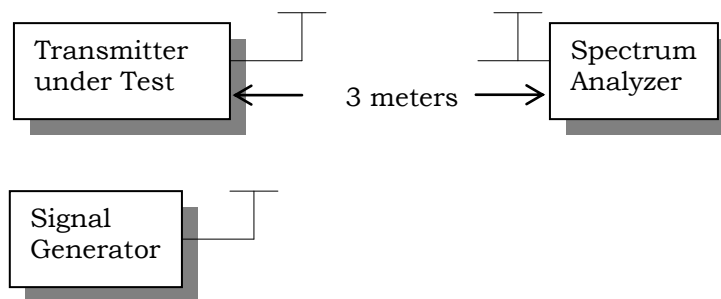
FIELD STRENGTH OF SPURIOUS EMISSIONS - TX

Rule Parts. No.: Part 2.1053
95.635(b)(7)

Requirements: GMRS: $43 + 10\log(1.78) = 45.50$ dB

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per ANSI/TIA 603-C:2004 using the substitution method. Measurements were made at the test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

Test Setup Diagram:



Test Data (GMRS):

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
462.70	V	0
925.40	V	70.02
1388.20	V	70.31
1850.90	H	60.58
2313.60	H	72.44
2776.40	H	73.40
3239.00	H	80.80
3701.80	H	84.24
4164.50	H	83.14
4627.20	H	80.92

Rule Parts. No.: Part 2.1053
95.635(b)(7)

Requirements: FRS : $43 + 10\log(.38) = 39.80$ dB

Test Data (FRS):

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
467.50	V	0
935.10	V	59.32
1402.60	V	62.71
1870.20	V	51.68
2337.80	H	61.14
2805.30	H	68.80
3272.80	H	73.70
3740.30	V	70.24
4208.00	H	70.24
4675.50	H	72.82

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TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/20/07	3/19/10
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	Listed 5/11/07	5/11/10
AC Voltmeter	HP	400FL	2213A14261	CAL 5/14/07	5/14/09
Analyzer Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 11/30/07	11/30/09
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 11/30/07	11/30/09
Analyzer Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 11/30/07	11/30/09
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 11/30/07	11/30/09
Coaxial Cable #64	Semflex Inc.	60637	Timco #64	CHAR 3/30/07	3/30/09
Antenna: Dipole Kit	Electro-Metrics	TDA-30/1-4	153	CHAR 4/5/06	4/5/09
Frequency Counter	HP	5385A	2730A03025	CAL 7/6/07	7/6/09
Hygro-Thermometer	Extech	445703	0602	CAL 11/15/07	11/15/09
Antenna: Log-Periodic	Electro-Metrics	LPA-30	409	CAL 7/18/07	7/18/09
Measuring Tape-7.5M	Kraftixx	7.5M PROFI		CHAR 11/13/07	11/13/09
Modulation Analyzer	HP	8901A	3435A06868	CAL 5/9/07	5/9/09
Digital Multimeter	Fluke	FLUKE-77-3	79510405	CAL 5/14/07	5/14/09
System One	Audio Precision	System One	SYS1-45868	CHAR 2/27/08	2/27/10
Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 4/25/08	4/25/10

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