

# Meteorcomm LLC.

## TEST REPORT FOR

**Base Station Transceiver  
Model: 63030-24**

**Tested To The Following Standards:**

**FCC Part 90I and RSS-119 Issue 11**

**Report No.: 93780-2**

**Date of issue: November 1, 2012**



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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## ADMINISTRATIVE INFORMATION

### Test Report Information

**REPORT PREPARED FOR:**

Meteorcomm LLC.  
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Renton, WA 98057

Representative: Bernd Friedrich  
Customer Reference Number: 12095

**REPORT PREPARED BY:**

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Project Number: 93780

**DATE OF EQUIPMENT RECEIPT:**  
**DATE(S) OF TESTING:**

October 24, 2012  
October 24-25, 2012

### Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



*Steve Behm*  
Director of Quality Assurance & Engineering Services  
CKC Laboratories, Inc.

## Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

**TEST LOCATION(S):**  
CKC Laboratories, Inc.  
22116 23rd Drive S.E., Suite A  
Bothell, WA 98021-4413

## Site Registration & Accreditation Information

Location	CB #	Taiwan	Canada	FCC	Japan
Bothell	US0081	SL2-IN-E-1145R	3082C-1	318736	R-2296 C-2506 T-1489 G-284

## SUMMARY OF RESULTS

### Standard / Specification: FCC Part 90I and RSS - 119 Issue 11

Description	Test Procedure/Method	Results
Emissions Mask	FCC Part 90I § 210(f)	Pass
Transmitter Unwanted Emissions	RSS-119 § 5.8	Pass

### Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

## EQUIPMENT UNDER TEST (EUT)

### EQUIPMENT UNDER TEST

#### Base Station Transceiver

Manuf: Meteorcomm LLC.  
Model: 63030-24  
Serial: 63B2000101BK

### PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

#### Programmable Power Supply

Manuf: AMETEK  
Model: XG100-17MGA  
Serial: 1051A05348

#### 50 ohm Terminator

Manuf: Bird  
Model: 100-A-MFN-30  
Serial: 0524

#### GPS Antenna, SMA-35 3-5V

Manuf: Synergy Systems, LLC.  
Model: 10001339  
Serial: NA

## FCC PART 90I & RSS-119

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) requirements for licensed devices.

### FCC Part 90I § 210(f) Emissions Mask & RSS-119 § 5.8 Transmitter Unwanted Emissions

#### Test Set up / Conditions

The EUT is located on the center of the test table 80cm above the ground plane. The Power supply is located under the table on the ground plane. The RF port is terminated into a 50ohm terminator. The GPS port is terminated with a GPS antenna. The EUT's duty cycle is 30%

The Engineer tested Low and High channels at 10w and 75w.

Testing performed per TIA/603C

Temp: 22°C, Relative Humidity: 33%, Pressure: 101.7kPa

Freq: 0.009-3000MHz

Engineer: A. del Angel

Test Equipment					
Asset #	Description	Manufacturer	Model	Cal Date	Cal Due
AN01517	Preamp	HP	8447D	2/24/2011	2/24/2013
AN01993	Biconilog Antenna	Chase	CBL6111C	3/2/2012	3/2/2014
AN03227	Cable	Astrolab	32026-29080-29080-84	5/2/2011	5/2/2013
ANP05360	Cable	Belden	RG214	11/8/2010	11/8/2012
ANP05366	Cable	Belden	RG-214	10/14/2011	10/14/2013
AN02871	Spectrum Analyzer	Agilent	E4440A	4/22/2011	4/22/2013
AN01271	Preamp	HP	83017A	8/18/2011	8/18/2013
AN01467	Horn Antenna-ANSI C63.5 Calibration	Horn Antenna	3115	10/19/2011	10/19/2013
AN03123	Cable	Astrolab	32026-2-29801-12	10/14/2011	10/14/2013
ANP05542	Cable	Andrews	Heliax	9/27/2011	9/27/2013
AN00052	Loop Antenna	EMCO	6502	5/16/2012	5/16/2014

**Test Data**

Operating Frequency: 220-222 MHz  
 Channels: Low and High  
 Highest Measured Output  
 Power: 48.45 (dBm)= 70 (Watts)  
 Distance: 3 meters  
 Limit: 55+10Log(P)= 73.45 dBc

Freq. (MHz)	Reference Level (dBm)	Antenna Polarity (H/V)	dBc
2,219.80	-40.7009804	Horiz	89.15
443.98	-42.1009804	Vert	90.55
440.03	-43.0009804	Horiz	91.45
887.94	-44.0009804	Vert	92.45
2,200.06	-44.2009804	Vert	92.65
665.97	-46.1009804	Vert	94.55
1,997.88	-50.2009804	Vert	98.65
660.03	-50.4009804	Horiz	98.85
1,109.92	-51.0009804	Vert	99.45
880.04	-51.1009804	Vert	99.55
1,540.08	-51.5009804	Vert	99.95
1,553.90	-51.7009804	Horiz	100.15
1,100.00	-53.1009804	Horiz	101.55
1,980.02	-53.3009804	Vert	101.75
1,775.85	-53.7009804	Horiz	102.15
1,760.12	-55.2009804	Horiz	103.65
1,320.11	-60.3009804	Horiz	108.75
1,332.13	-60.7009804	Horiz	109.15
1,553.91	-60.8009804	Horiz	109.25

**Test Setup Photos**

