

Compliance Testing, LLC

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Test Report

Prepared for: PCI Race Radios, Inc.

Model: Intercom and Two Way Radio

Description: Comlink RTX

Serial Number: 1512000001

FCC ID: 2AEVE-PCI-CL-RTX

To

FCC Part 1.1310

Date of Issue: November 4, 2015

On the behalf of the applicant: PCI Race Radios, Inc.

2888 Gundry Avenue Signal Hill, CA 90755

Attention of: **Dimitrios Spyrs, Operations Manager**

Ph: (562)427-8177

Email: jimmy@pciraceradios.com

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Project No: p1550025

Alex Macon

Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 16, 2015	Alex Macon	Original Document
2.0	November 4, 2015	Alex Macon	Added minimum safe distance calculation

ILAC / A2LA

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The tests results contained within this test report all fall within our scope of accreditation, unless below

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Testing Certificate Number: 2152.01



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description
Model: Comlink RTX

Description: Intercom and Two Way Radio

Firmware: N/A Software: N/A

Serial Number: 1512000001 **Additional Information:**

EUT was powered with a 12VDC power supply. All conducted measurements were taken with the loss of

the supplied antenna cable in mind.

Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency	Conducted Peak Output Power (mW)	Duty Cycle	Average Power	
(MHz)		(%)	(mW)	
154.60	1950	100	1950	

MPE Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm²] = 100
1.34-30 MHz:	Limit $[mW/cm^2] = (180/f^2)$
30-300 MHz:	Limit $[mW/cm^2] = 0.2$
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	154.6
Power, Conducted, mW (P)	1950
Antenna Gain Isotropic	0dBi
Antenna Gain Numeric (G)	1
Antenna Type	omni
Distance (R)	20 cm

$$S = \frac{P*G}{4\pi r^2}$$
Power Density (S) mw/cm²

	.3879
Limit =(from above table)	= 0.2

The power spectral density of 0.3879 mw/cm² is over the limit of 0.2 mw/cm². The Minimum safe distance was calculated as follows

formula R=√(PG/4πL)			
Distance (R) (cm)	Power (mW)	Numeric Gain (G)	Limit (mW/cm)
27.86169208	1950	1	0.2

The minimum safe distance is 27.8 cm.

END OF TEST REPORT