



**FCC CFR47 PART 15 SUBPART B
CERTIFICATION
TEST REPORT**

FOR

CB RADIO

MODEL NUMBER: JC-215R, JC-215H

FCC ID: AX292AJC215R

REPORT NUMBER: 05I3226-1

ISSUE DATE: MARCH 07, 2005

Prepared for
**CLARION CO. LTD
50 KAMITODA, TODA
SAITAMA, 335-8511, JAPAN**

Prepared by
**COMPLIANCE ENGINEERING SERVICES, INC.
d.b.a.
COMPLIANCE CERTIFICATION SERVICES
561F MONTEREY ROAD,
MORGAN HILL, CA 95037, USA
TEL: (408) 463-0885
FAX: (408) 463-0888**

NVLAP[®]
LAB CODE:200065-0

Revision History

<u>Rev.</u>	<u>Revisions</u>	<u>Revised By</u>
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: CLARION CO. LTD.
50 KAMITODA, TODA
SAITAMA, 335-8511, JAPAN

EUT DESCRIPTION: CB RADIO

MODEL: JC-215R, JC-215H

SERIAL NUMBER: 0039717

DATE TESTED: FEBRUARY 13 – 16, 2005

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART B	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

WILLIAM ZHUANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a CB Radio.

GENERAL INFORMATION

CHASSIS / ENCLOSURE MATERIAL	METAL
POWER REQUIREMENTS	13.8VDC CAR BATTERY
POWERLINE FILTER MANUFACTURER AND MODEL	N/A

5.2. SOFTWARE AND FIRMWARE

The EUT driver is manually operating with the Remote Controller.

5.3. MODIFICATIONS

No modifications were made during testing.

5.4. DETAILS OF TESTED SYSTEM

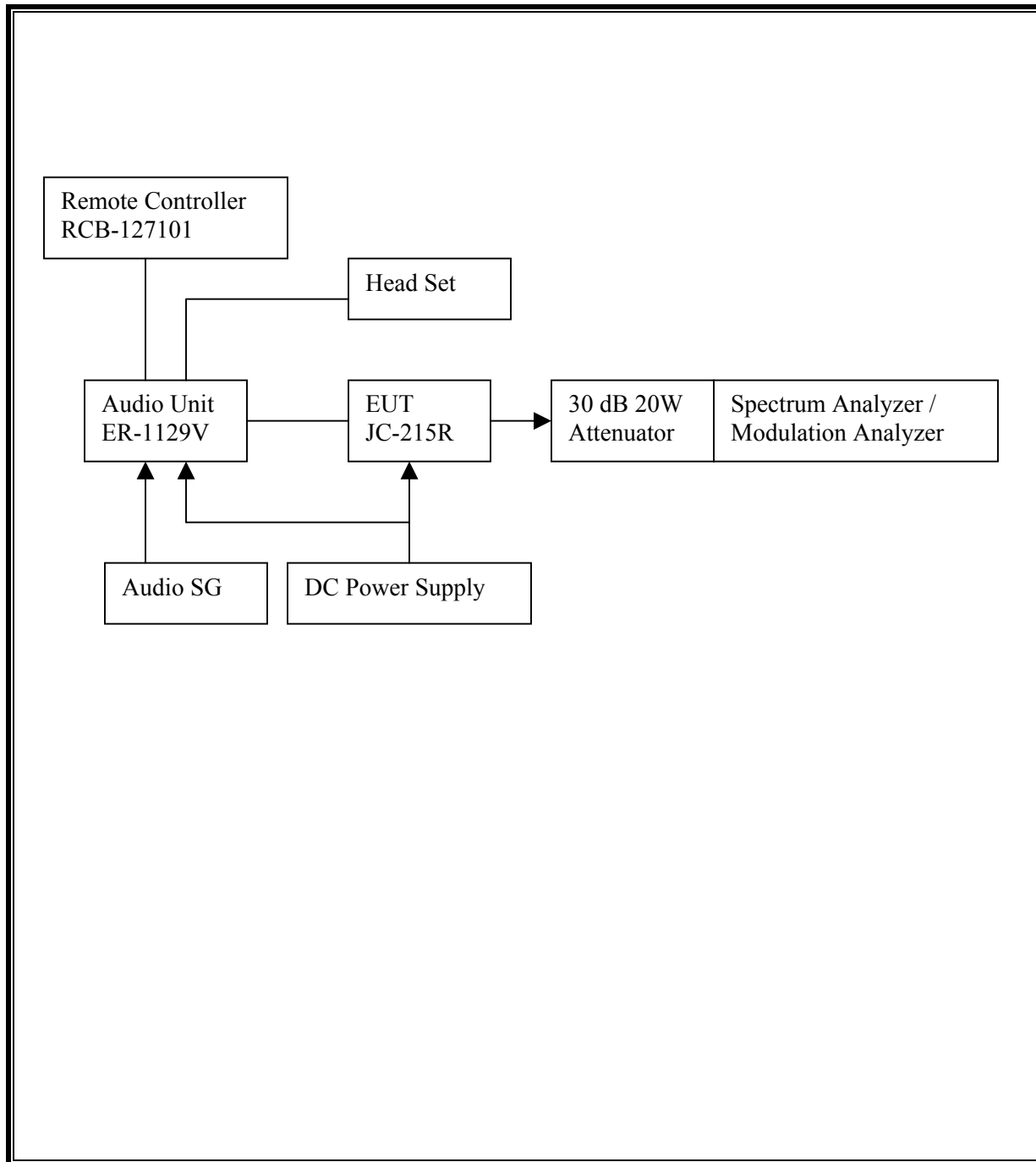
SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Audio Unit	YAMAHA	ER-1129V	0010942	N/A
Remote Controller	N/A	RCB-127101	N/A	N/A
Head Set	N/A	N/A	N/A	N/A

TEST SETUP

The EUT is connected to Audio unit, Remote Controller, and all Test Equipment.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Quasi-Peak Adaptor	HP	85650A	2811A01155	5/24/2005
SA Display Section 2	HP	85662A	2816A16696	5/24/2005
SA RF Section, 1.5 GHz	HP	85680B	2814A04227	2/22/2005
Site A Preamplifier, 1300MHz	HP	8447D	2944A06833	8/17/2005
Antenna, Horn 1 ~ 18 GHz	EMCO	3117	29310	9/12/2005
Function Generator	HP	3325A	2652A24749	5/8/2005
Modulation Analyzer	HP	8901B	3438A05272	9/23/2005
Pulse Generator	Agilent	81101A	DE38900835	2/13/2006
Spectrum Analyzer, 26.5 GHz	HP	8593EM	3710A00205	1/6/2006
Spectrum Analyzer	Agilent	E4446A	MY43360112	1/13/2006
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	29800	5/13/2005
30 dB 20 Watt Attenuator	N/A	N/A	N 02616	Cal. before test
DC Power Supply	KRM	AEEC-350	N/A	N/A

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. ANTENNA POWER CONDUCTION LIMITS FOR RECEIVERS

LIMITS

With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

TEST PROCEDURE

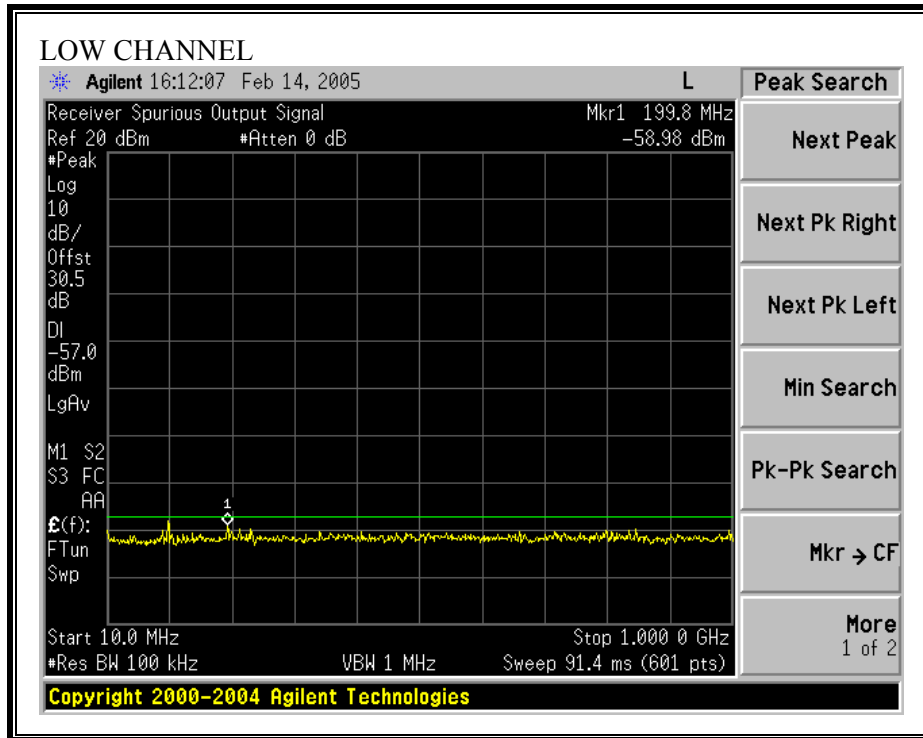
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to \geq RBW.

The spectrum from 30 MHz to 1 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

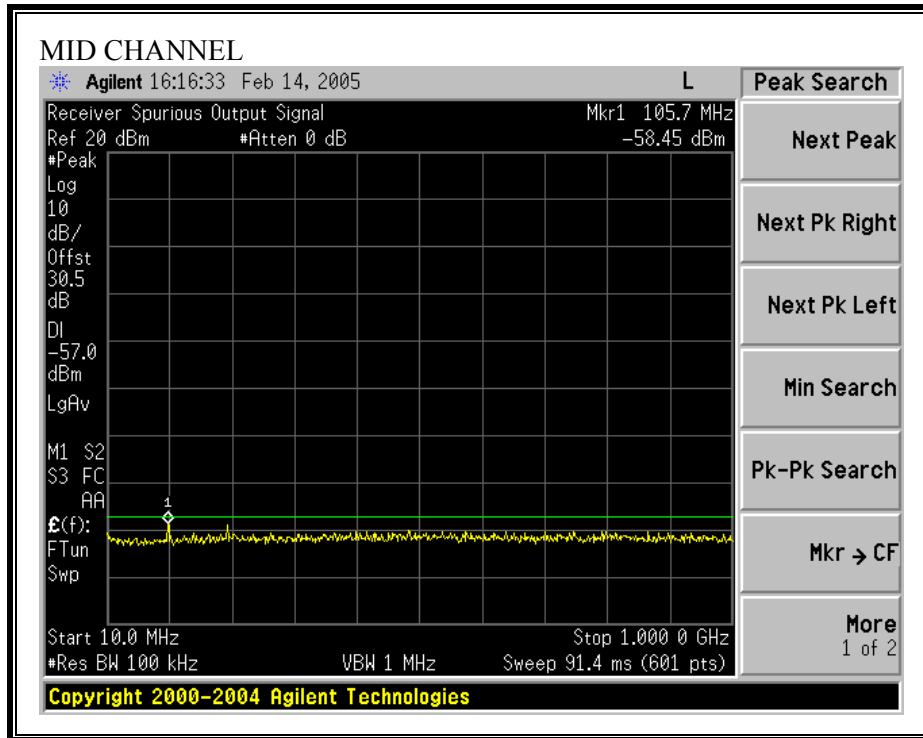
RESULTS

No non-compliance noted:

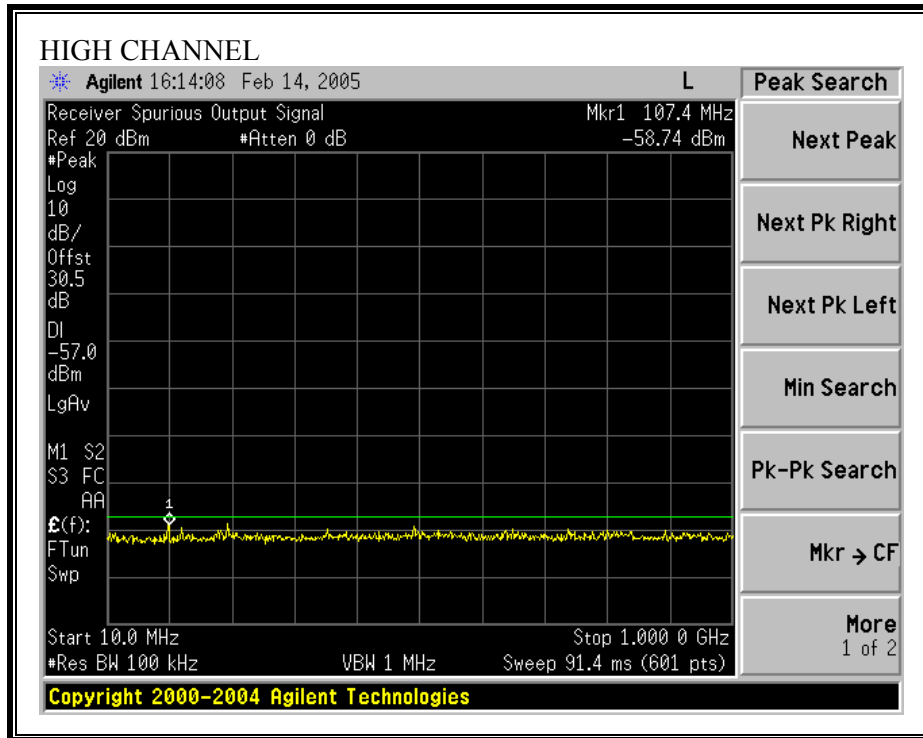
SPURIOUS EMISSIONS, LOW CHANNEL



SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



7.2. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

The frequency range was investigated from 30 MHz to 1000 MHz.

LIMIT

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

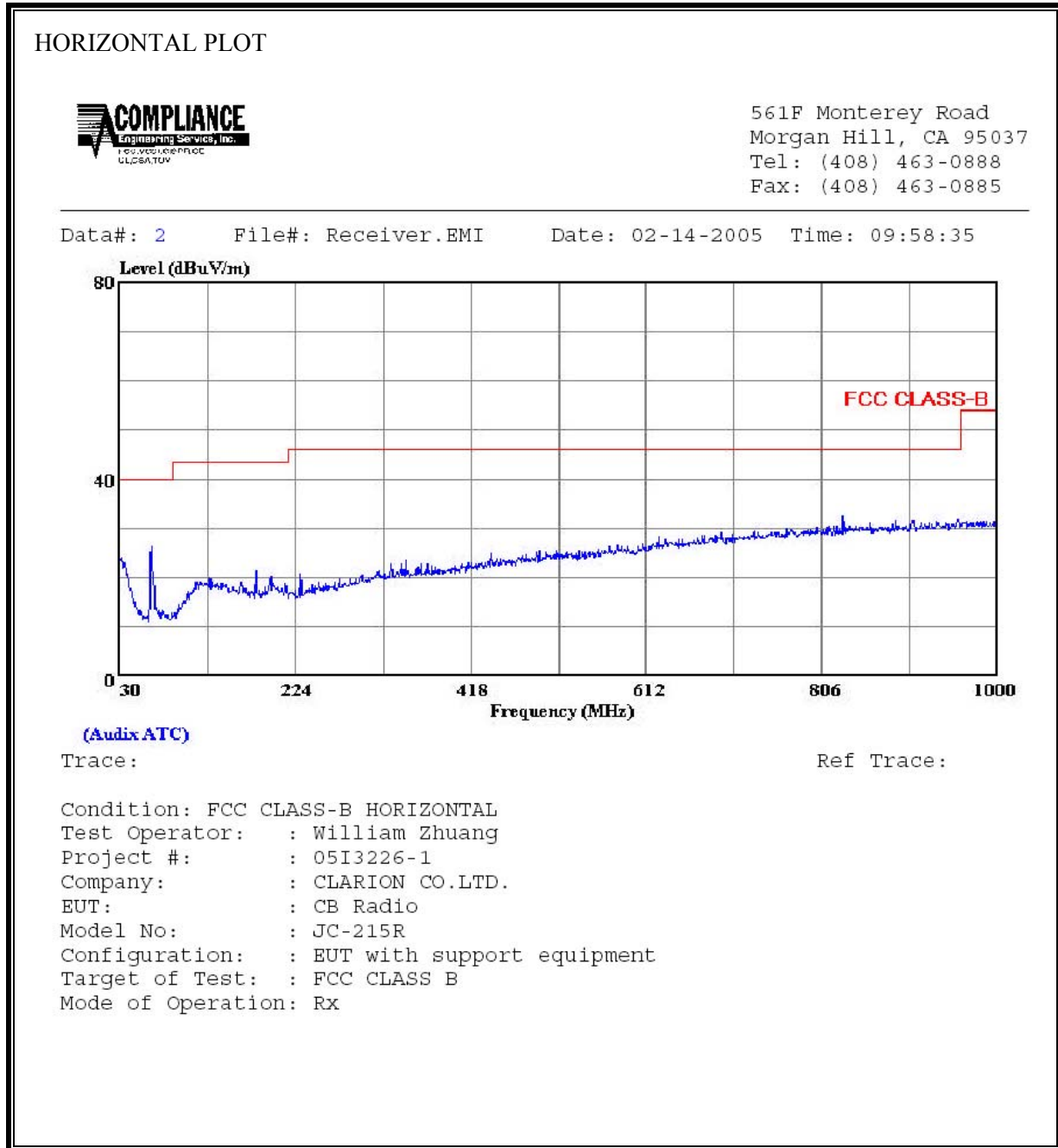
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

Note: The lower limit shall apply at the transition frequency.

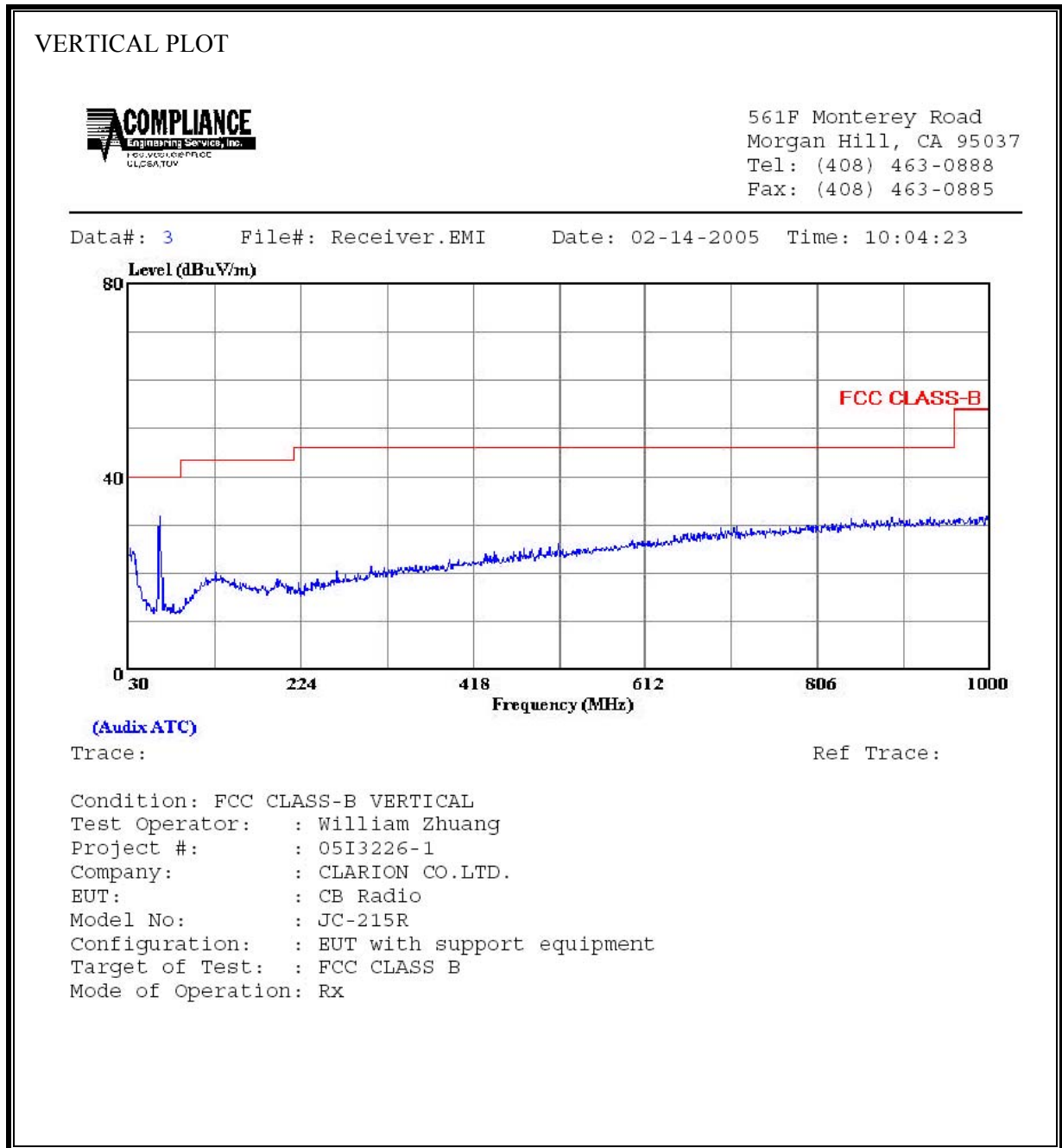
RESULTS

No non-compliance noted:

RECEIVER SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

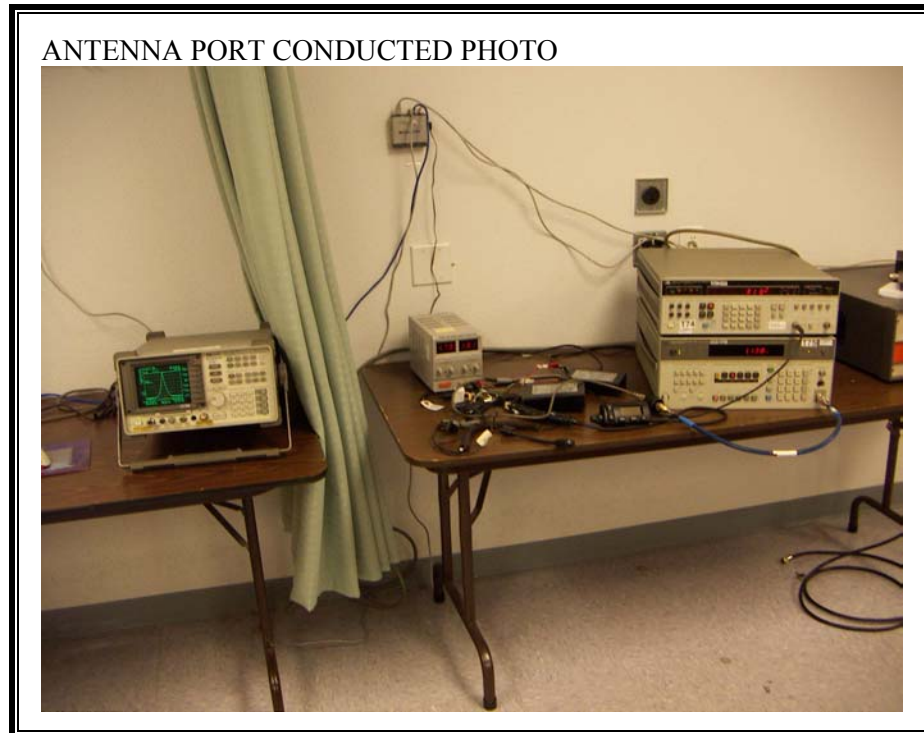


RECEIVER SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

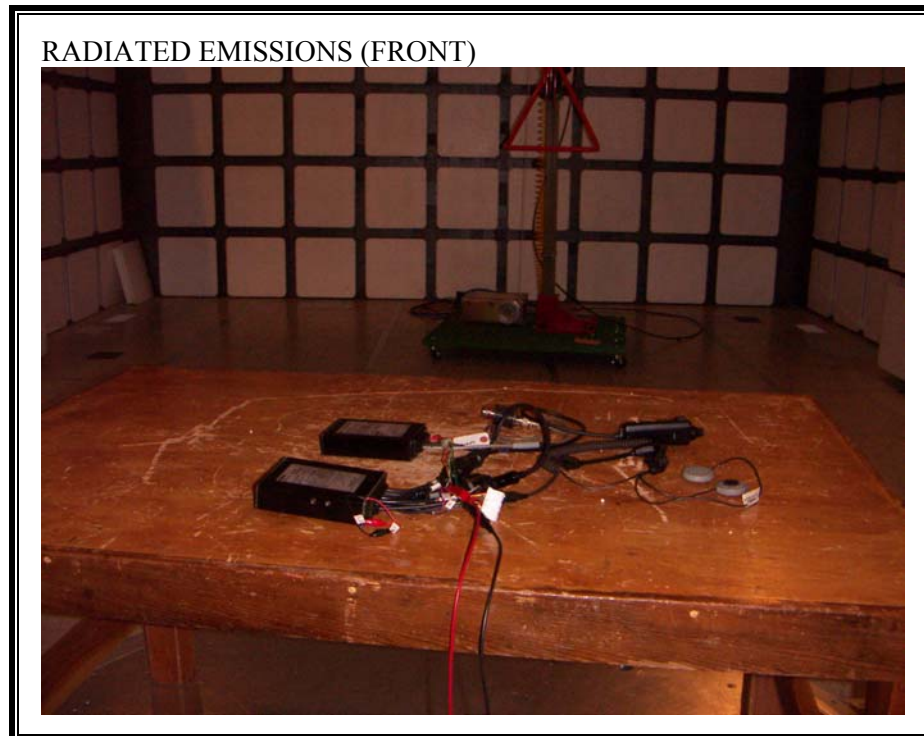


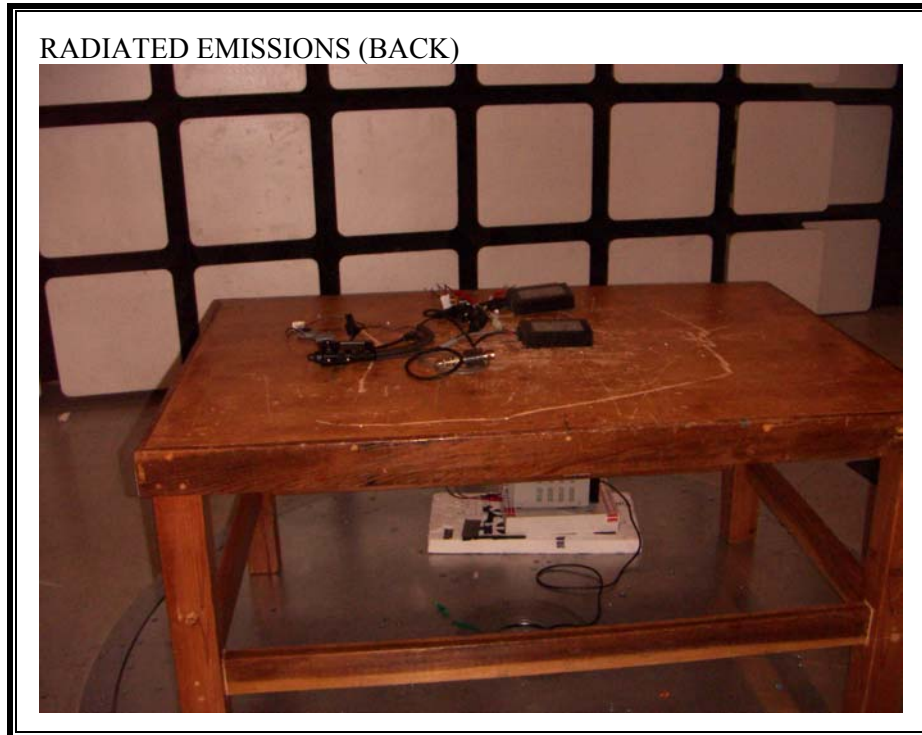
8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



RADIATED EMISSION





END OF REPORT