

**FCC PART 15 SUBPART B and FCC PART 15 SUBPART C  
TEST REPORT***for***PACIFI****MODEL: PAC1**

Prepared for

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DATE: JULY 28, 2014

|       | REPORT | APPENDICES |   |   |    |    | TOTAL |
|-------|--------|------------|---|---|----|----|-------|
|       | BODY   | A          | B | C | D  | E  |       |
| PAGES | 16     | 2          | 2 | 2 | 14 | 29 | 65    |

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**TABLE OF CONTENTS**

| <b>Section / Title</b>                                         | <b>PAGE</b> |
|----------------------------------------------------------------|-------------|
| <b>GENERAL REPORT SUMMARY</b>                                  | <b>4</b>    |
| <b>SUMMARY OF TEST RESULTS</b>                                 | <b>4</b>    |
| <b>1. PURPOSE</b>                                              | <b>5</b>    |
| <b>2. ADMINISTRATIVE DATA</b>                                  | <b>6</b>    |
| 2.1 Location of Testing                                        | 6           |
| 2.2 Traceability Statement                                     | 6           |
| 2.3 Cognizant Personnel                                        | 6           |
| 2.4 Date Test Sample was Received                              | 6           |
| 2.5 Disposition of the Test Sample                             | 6           |
| 2.6 Abbreviations and Acronyms                                 | 6           |
| <b>3. APPLICABLE DOCUMENTS</b>                                 | <b>7</b>    |
| <b>4. DESCRIPTION OF TEST CONFIGURATION</b>                    | <b>8</b>    |
| 4.1 Description of Test Configuration – Emissions              | 8           |
| 4.1.1 Cable Construction and Termination                       | 8           |
| <b>5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT</b>         | <b>9</b>    |
| 5.1 EUT and Accessory List                                     | 9           |
| 5.2 Emissions Test Equipment                                   | 10          |
| <b>6. TEST SITE DESCRIPTION</b>                                | <b>11</b>   |
| 6.1 Test Facility Description                                  | 11          |
| 6.2 EUT Mounting, Bonding and Grounding                        | 11          |
| 6.3 Facility Environmental Characteristics                     | 11          |
| <b>7. TEST PROCEDURES</b>                                      | <b>12</b>   |
| 7.1 RF Emissions                                               | 12          |
| 7.1.1 Conducted Emissions Test                                 | 12          |
| 7.1.2 Radiated Emissions (Spurious and Harmonics) Test – Lab B | 13          |
| 7.1.3 Radiated Emissions (Spurious and Harmonics) Test – Lab D | 14          |
| 7.1.4 RF Emissions Test Results                                | 15          |
| <b>8. CONCLUSIONS</b>                                          | <b>16</b>   |

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**LIST OF APPENDICES**

| APPENDIX | TITLE                                                                                                                                                                        |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A        | Laboratory Accreditations and Recognitions                                                                                                                                   |
| B        | Modifications to the EUT                                                                                                                                                     |
| C        | Additional Models                                                                                                                                                            |
| D        | Diagram, Charts, and Photos <ul style="list-style-type: none"><li>• Test Setup Diagram</li><li>• Antenna and Amplifier Factors</li><li>• Radiated Emissions Photos</li></ul> |
| E        | Data Sheets                                                                                                                                                                  |

**LIST OF FIGURES**

| FIGURE | TITLE                                     |
|--------|-------------------------------------------|
| 1      | Conducted Emissions Test Setup            |
| 2      | Plot Map And Layout of Radiated Test Site |

**LIST OF TABLES**

| TABLE | TITLE                     |
|-------|---------------------------|
| 1.0   | Radiated Emission Results |

## GENERAL REPORT SUMMARY

Compatible Electronics Inc. generates this electromagnetic emission test report, which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested: Pacifi  
Model: PAC1  
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Blue Maestro Limited  
Cheltnam Place, Broom Way  
Weybridge, KT13 9TG, United Kingdom

Test Date(s): July 10, 2014

Test Specifications: Emissions requirements  
CFR Title 47, Part 15, Subpart B and Subpart C, Sections 15.205, 15.209, and 15.249

Test Procedure: ANSI C63.4

Test Deviations: The test procedure was not deviated from during the testing.

## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                                                                       | RESULTS                                                                                                                          |
|------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1    | Conducted RF Emissions<br>150 kHz to 30 MHz                                       | This test was not performed because the EUT operates on battery power and does not connect to the AC mains.                      |
| 2    | Radiated RF Emissions<br>10 kHz to 25000 MHz<br>(Transmitter and Digital Portion) | Complies with the <b>Class B</b> limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249. |

## 1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the Pacifi, Model: PAC1 (EUT). The Emissions measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



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## **2. ADMINISTRATIVE DATA**

### **2.1 Location of Testing**

The Emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

### **2.2 Traceability Statement**

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

### **2.3 Cognizant Personnel**

Blue Maestro Limited

Richard Hancock      CEO

Compatible Electronics Inc.

James Ross      Test Engineer

Kyle Fujimoto      Test Engineer

### **2.4 Date Test Sample was Received**

The test sample was received prior to the initial test date of July 10, 2014.

### **2.5 Disposition of the Test Sample**

The test sample has not been returned to Blue Maestro Limited as of the date of the test report.

### **2.6 Abbreviations and Acronyms**

The following abbreviations and acronyms may be used in this document.

|       |                                                     |
|-------|-----------------------------------------------------|
| FCC   | Federal Communications Commission                   |
| RF    | Radio Frequency                                     |
| EMI   | Electromagnetic Interference                        |
| EUT   | Equipment Under Test                                |
| P/N   | Part Number                                         |
| S/N   | Serial Number                                       |
| ITE   | Information Technology Equipment                    |
| LISN  | Line Impedance Stabilization Network                |
| NVLAP | National Voluntary Laboratory Accreditation Program |
| CFR   | Code of Federal Regulations                         |
| N/A   | Not Applicable                                      |
| Ltd.  | Limited                                             |
| Inc.  | Incorporated                                        |
| NCR   | No Calibration Required                             |
| URC   | Universal Remote Control                            |

### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this Emissions Test Report.

| SPEC                     | TITLE                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CFR Title 47,<br>Part 15 | FCC Rules – Radio frequency devices (including digital devices)                                                                                                     |
| ANSI C63.4:<br>2009      | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

#### **4. DESCRIPTION OF TEST CONFIGURATION**

##### **4.1 Description of Test Configuration – Emissions**

The Pacifi, Model: PAC1 (EUT) was tested as a stand alone unit. The EUT was connected to a switch that allowed the EUT to be set at the low, middle, or high channel and continuously transmit at that channel.

Note: The switch is only used to allow the EUT to switch channels and will not be connected during normal operation.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

##### **4.1.1 Cable Construction and Termination**

**Cable 1** This is a 10-centimeter unshielded cable connecting the EUT to a switch. The cable is hard wired at each end.

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**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

| EQUIPMENT    | MANUFACTURER         | MODEL NUMBER | SERIAL NUMBER | FCC ID    |
|--------------|----------------------|--------------|---------------|-----------|
| PACIFI (EUT) | BLUE MAESTRO LIMITED | PAC1         | N/A           | 2AC2YPAC1 |
| SWITCH       | N/A                  | N/A          | N/A           | N/A       |

## 5.2 Emissions Test Equipment

| EQUIPMENT TYPE                              | MANU-FACTURER              | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE  | CAL. CYCLE |
|---------------------------------------------|----------------------------|--------------|---------------|-------------------|------------|
| <b>GENERAL TEST EQUIPMENT USED IN LAB B</b> |                            |              |               |                   |            |
| Computer                                    | Compaq                     | CQ5210F      | CNX9360CF9    | N/A               | N/A        |
| Monitor                                     | Hewlett Packard            | HPs2031a     | 3CQ046N3MD    | N/A               | N/A        |
| EMI Receiver                                | Rohde & Schwarz            | ESIB40       | 100194        | November 19, 2012 | 2 Year     |
| <b>GENERAL TEST EQUIPMENT USED IN LAB D</b> |                            |              |               |                   |            |
| Computer                                    | Hewlett Packard            | p6716f       | MXX1030PX0    | N/A               | N/A        |
| LCD Monitor                                 | Hewlett Packard            | 52031a       | 3CQ046N3MG    | N/A               | N/A        |
| EMI Receiver, 20 Hz to 26.5 GHz             | Agilent                    | N9038A       | MY51100115    | March 6, 2014     | 1 Year     |
| <b>RF RADIATED EMISSIONS TEST EQUIPMENT</b> |                            |              |               |                   |            |
| CombiLog Antenna                            | Com-Power                  | AC-220       | 61060         | May 20, 2014      | 1 Year     |
| Preamplifier                                | Com-Power                  | PA-118       | 181656        | January 13, 2014  | 1 Year     |
| Preamplifier                                | Com-Power                  | PA-840       | 711013        | May 13, 2014      | 2 Year     |
| Loop Antenna                                | Com-Power                  | AL-130       | 17089         | January 29, 2013  | 2 Year     |
| Horn Antenna                                | Com-Power                  | AH-118       | 071175        | February 26, 2014 | 2 Year     |
| Horn Antenna                                | Com-Power                  | AH-826       | 0071957       | N/A               | N/A        |
| Antenna Mast                                | Com Power                  | AM-100       | N/A           | N/A               | N/A        |
| System Controller                           | Sunol Sciences Corporation | SC110V       | 112213-1      | N/A               | N/A        |
| Turntable                                   | Sunol Sciences Corporation | 2011VS       | N/A           | N/A               | N/A        |
| Antenna-Mast                                | Sunol Sciences Corporation | TWR95-4      | 112213-3      | N/A               | N/A        |

**6. TEST SITE DESCRIPTION****6.1 Test Facility Description**

Please refer to section 2.1 and 7.1.2 of this report for Emissions test location.

**6.2 EUT Mounting, Bonding and Grounding**

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

**6.3 Facility Environmental Characteristics**

When applicable refer to the data sheets in Appendix E for the relative humidity, air temperature, and barometric pressure.

## 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

### 7.1 RF Emissions

#### 7.1.1 Conducted Emissions Test

The measurement receiver was used as a measuring meter. The data was collected with the measurement receiver in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the measurement receiver's input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the measurement receiver. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

#### **Test Results:**

This test was not performed because the EUT operates on battery power and does not connect to the AC mains.

### 7.1.2 Radiated Emissions (Spurious and Harmonics) Test – Lab B

The EMI Receiver was used as a measuring meter. A preamplifier was used to increase the sensitivity of the instrument. The Com Power Microwave Preamplifier M/N: PA-118 was used for frequencies from 1 GHz to 18 GHz, and the M/N: PA-840 was used for frequencies above 18 GHz. The EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 1/T where T is the time of the pulse in seconds and putting the sweep time on AUTO on the EMI Receiver to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER   |
|-----------------|---------------------------------|--------------|
| 1 GHz to 25 GHz | 1 MHz                           | Horn Antenna |

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2009. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT by the Radiated Emission Manual Test software. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance from 1 GHz to 25 GHz to obtain the final test data.

#### Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.249.

### 7.1.3 Radiated Emissions (Spurious and Harmonics) Test – Lab D

The EMI Receiver was used as the measuring meter. A built-in, internal preamplifier was used to increase the sensitivity of the instrument. The EMI Receiver was initially used in the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

The EMI shielded test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is set up according to ANSI C63.4: 2009. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT.

The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE   | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER          |
|-------------------|---------------------------------|---------------------|
| 10 kHz to 150 kHz | 200 Hz                          | Active Loop Antenna |
| 150 kHz to 30 MHz | 9 kHz                           | Active Loop Antenna |
| 30 MHz to 1 GHz   | 120 kHz                         | CombiLog Antenna    |

The EUT was tested at a 3 meter test distance. The six highest emissions are listed in Table 1.0.

#### Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.249.

**7.1.4 RF Emissions Test Results**Table 1.0 RADIATED EMISSION RESULTS  
Pacifi, Model: PAC1

| Frequency<br>MHz    | Corrected Reading*<br>dBuV | Specification Limit<br>dBuV | Delta<br>(Cor. Reading – Spec. Limit)<br>dB |
|---------------------|----------------------------|-----------------------------|---------------------------------------------|
| 912.50 (H) (X-Axis) | 28.17 (QP)                 | 46.00                       | -17.83                                      |
| 914.20 (V) (X-Axis) | 28.17 (QP)                 | 46.00                       | -17.83                                      |
| 916.60 (V) (X-Axis) | 28.14 (QP)                 | 46.00                       | -17.86                                      |
| 38.30 (V) (X-Axis)  | 21.96 (QP)                 | 46.00                       | -18.04                                      |
| 900.70 (V) (X-Axis) | 27.89 (QP)                 | 46.00                       | -18.11                                      |
| 7278 (H) (X-Axis)   | 34.82 (A)                  | 54.00                       | -19.18                                      |

## Notes:

- \* The complete emissions data is given in Appendix E of this report.
- (H) Horizontal
- (V) Vertical
- (A) Average
- (QP) Quasi-Peak

## 8. CONCLUSIONS

The Pacifi, Model: PAC1 (EUT), as tested, meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.





**APPENDIX A**

***LABORATORY ACCREDITATIONS AND RECOGNITIONS***

## LABORATORY ACCREDITATIONS AND RECOGNITIONS

NVLAP LAB CODES 200063-0,  
200528-0, 200527-0

For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. Please follow the link to the NIST/NVLAP site for each of our facilities' NVLAP certificate and scope of accreditation

**NVLAP listing links**[Agoura Division](#) / [Brea Division](#) / [Silverado/Lake Forest Division](#)

.Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfillment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."

**ANSI listing** [CETCB](#)

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).

**US/EU MRA list** [NIST MRA site](#)

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA).

**APEC MRA list** [NIST MRA site](#)

We are also listed for IT products by the following country/agency:

**VCCI Support member:** Please visit [http://www.vcci.jp/vcci\\_e/](http://www.vcci.jp/vcci_e/)**FCC Listing, from FCC OET site**[FCC test lab search](https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm) <https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm>

Compatible Electronics IC listing can be found at:

<http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home>

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

**Agoura Division**  
2337 Troutdale Drive  
Agoura, CA 91301  
(818) 597-0600

**Silverado Division**  
19121 El Toro Road  
Silverado, CA 92676  
(949) 589-0700

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**APPENDIX B**

***MODIFICATIONS TO THE EUT***

## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 and/or FCC **Class B** specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.





**APPENDIX C**

***ADDITIONAL MODELS***

## ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Pacifi  
Model: PAC1  
S/N: N/A

No additional models covered under this report.

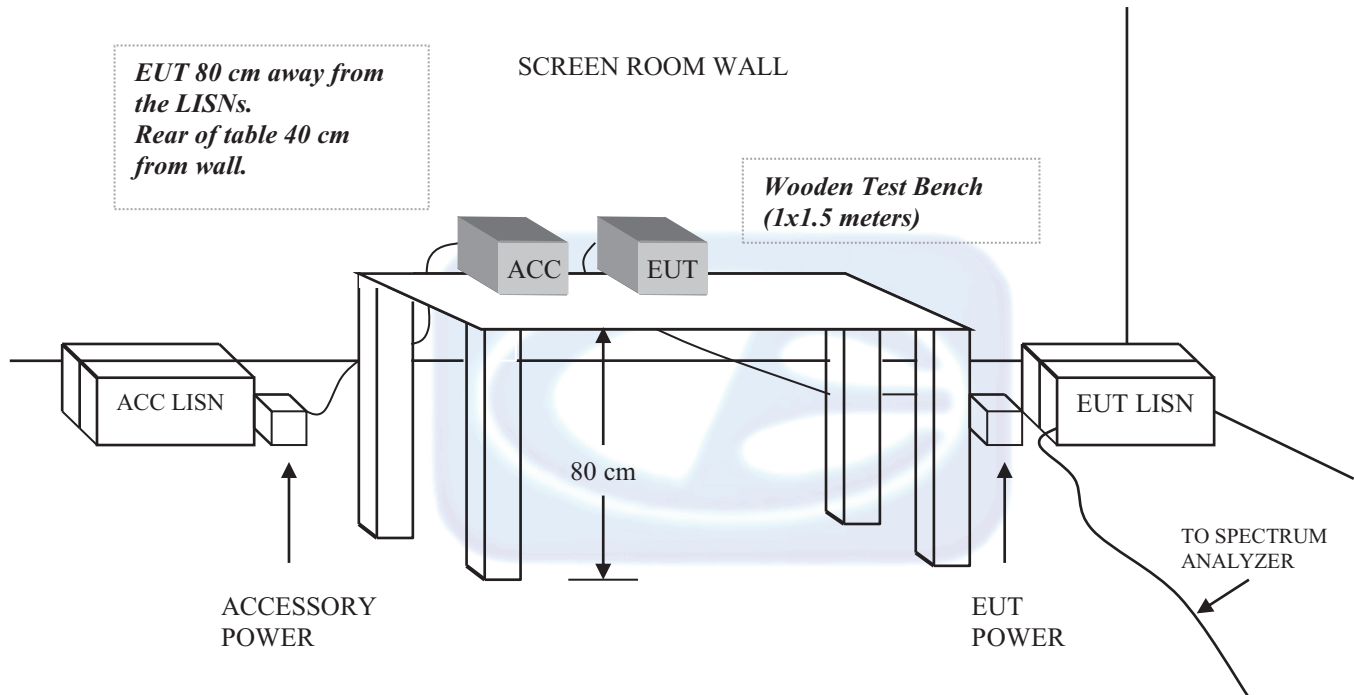




**APPENDIX D**

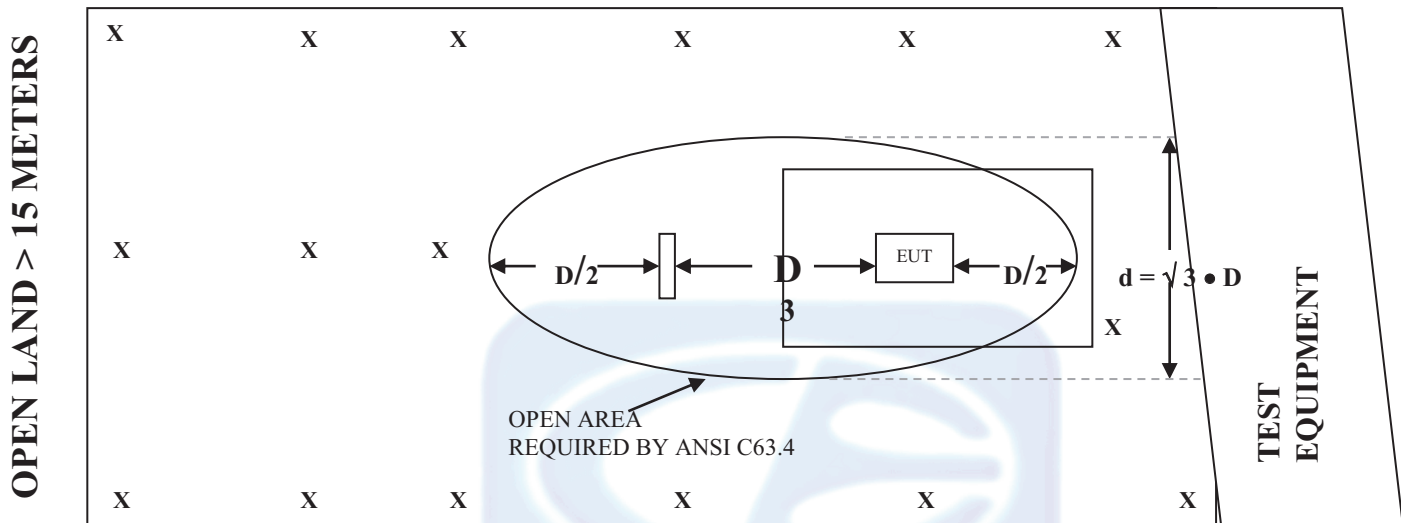
***DIAGRAMS, CHARTS, AND PHOTOS***

**FIGURE 1: CONDUCTED EMISSIONS TEST SETUP**

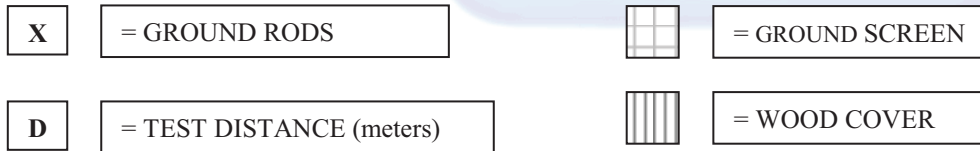


**FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE**

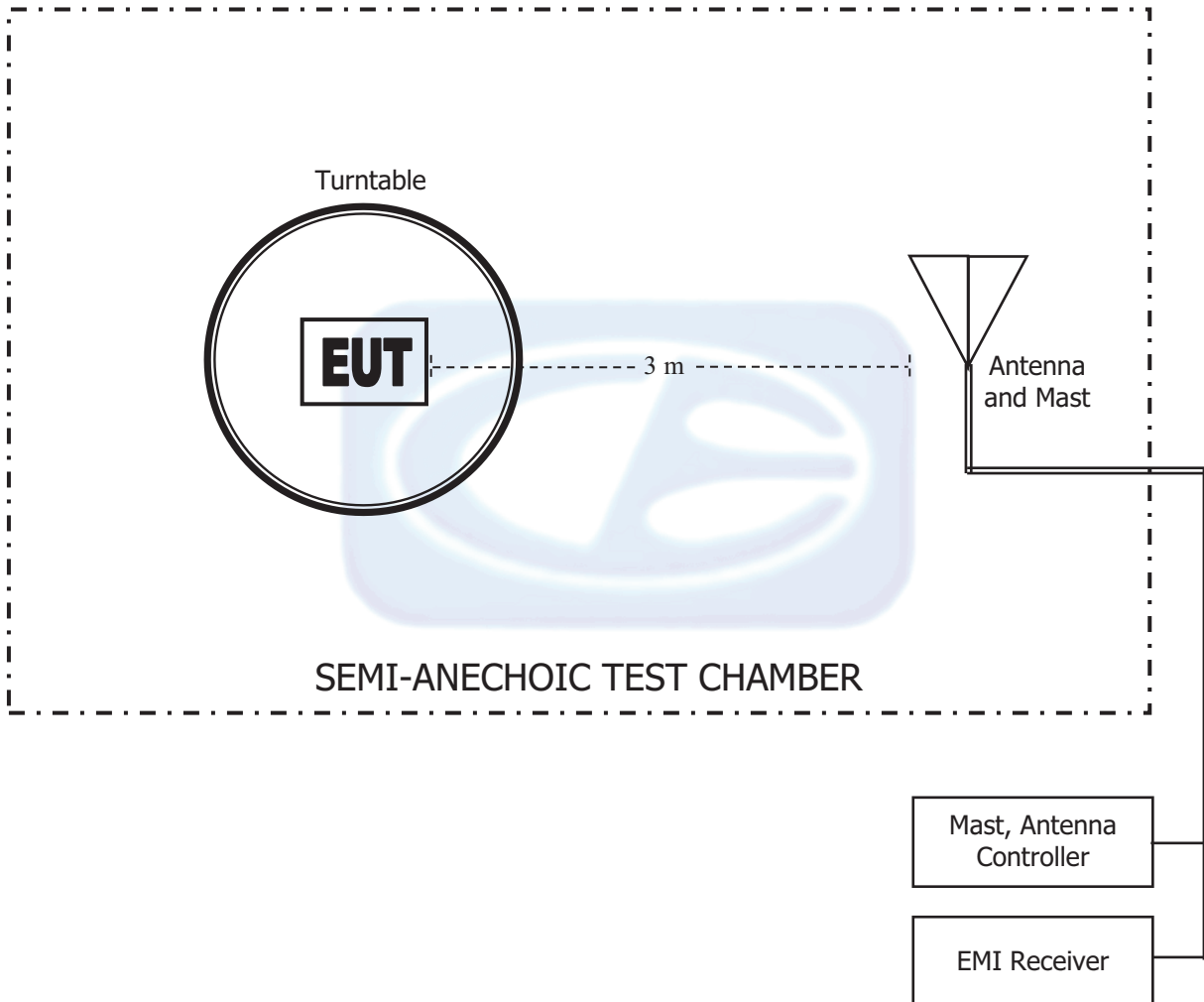
**OPEN LAND > 15 METERS**



**OPEN LAND > 15 METERS**



***FIGURE 3: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER***



**COM-POWER AL-130****LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: JANUARY 29, 2013

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -42.5                      | 9                          |
| 0.01                       | -42.3                      | 9.2                        |
| 0.02                       | -42.1                      | 9.4                        |
| 0.03                       | -41.4                      | 10.1                       |
| 0.04                       | -41.8                      | 9.7                        |
| 0.05                       | -42.4                      | 9.1                        |
| 0.06                       | -42.3                      | 9.2                        |
| 0.07                       | -42.5                      | 9                          |
| 0.08                       | -42.4                      | 9.1                        |
| 0.09                       | -42.5                      | 9                          |
| 0.1                        | -42.5                      | 9                          |
| 0.2                        | -42.7                      | 8.8                        |
| 0.3                        | -42.6                      | 8.9                        |
| 0.4                        | -42.5                      | 9                          |
| 0.5                        | -42.7                      | 8.8                        |
| 0.6                        | -42.7                      | 8.8                        |
| 0.7                        | -42.5                      | 9                          |
| 0.8                        | -42.3                      | 9.2                        |
| 0.9                        | -42.2                      | 9.3                        |
| 1                          | -42.2                      | 9.3                        |
| 2                          | -41.8                      | 9.7                        |
| 3                          | -41.7                      | 9.8                        |
| 4                          | -41.7                      | 9.8                        |
| 5                          | -41.5                      | 10                         |
| 6                          | -41.6                      | 9.9                        |
| 7                          | -41.4                      | 10.1                       |
| 8                          | -41                        | 10.5                       |
| 9                          | -40.8                      | 10.7                       |
| 10                         | -41.3                      | 10.2                       |
| 15                         | -41.4                      | 10.1                       |
| 20                         | -41.2                      | 10.3                       |
| 25                         | -42.6                      | 8.9                        |
| 30                         | -41.7                      | 9.8                        |

**COM-POWER AC-220****COMBILOG ANTENNA****S/N: 61060****CALIBRATION DATE: MAY 20, 2014**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 23.40                  | 200                        | 14.40                  |
| 35                         | 23.70                  | 250                        | 16.40                  |
| 40                         | 24.20                  | 300                        | 17.90                  |
| 45                         | 22.60                  | 350                        | 15.60                  |
| 50                         | 22.10                  | 400                        | 19.90                  |
| 60                         | 17.90                  | 450                        | 20.40                  |
| 70                         | 12.70                  | 500                        | 21.60                  |
| 80                         | 11.60                  | 550                        | 21.50                  |
| 90                         | 12.20                  | 600                        | 22.30                  |
| 100                        | 13.20                  | 650                        | 23.50                  |
| 120                        | 15.70                  | 700                        | 23.70                  |
| 125                        | 15.80                  | 750                        | 25.90                  |
| 140                        | 13.60                  | 800                        | 25.90                  |
| 150                        | 16.90                  | 850                        | 26.40                  |
| 160                        | 14.20                  | 900                        | 27.00                  |
| 175                        | 14.90                  | 950                        | 27.70                  |
| 180                        | 15.00                  | 1000                       | 27.50                  |

**COM POWER AH-118****HORN ANTENNA****S/N: 071175****CALIBRATION DATE: FEBRUARY 26, 2014**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 24.23                  | 10.0                       | 38.43                  |
| 1.5                        | 25.84                  | 10.5                       | 40.19                  |
| 2.0                        | 28.14                  | 11.0                       | 40.49                  |
| 2.5                        | 29.51                  | 11.5                       | 41.39                  |
| 3.0                        | 31.20                  | 12.0                       | 42.02                  |
| 3.5                        | 32.17                  | 12.5                       | 43.30                  |
| 4.0                        | 31.40                  | 13.0                       | 42.77                  |
| 4.5                        | 31.86                  | 13.5                       | 40.18                  |
| 5.0                        | 34.82                  | 14.0                       | 42.59                  |
| 5.5                        | 34.38                  | 14.5                       | 41.74                  |
| 6.0                        | 36.31                  | 15.0                       | 41.84                  |
| 6.5                        | 34.81                  | 15.5                       | 38.48                  |
| 7.0                        | 37.48                  | 16.0                       | 39.52                  |
| 7.5                        | 36.98                  | 16.5                       | 37.85                  |
| 8.0                        | 36.66                  | 17.0                       | 41.33                  |
| 8.5                        | 38.47                  | 17.5                       | 44.96                  |
| 9.0                        | 37.22                  | 18.0                       | 48.50                  |
| 9.5                        | 37.86                  |                            |                        |

**COM-POWER PA-118****PREAMPLIFIER**

S/N: 181656

CALIBRATION DATE: JANUARY 13, 2014

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 24.90                  | 6.0                        | 25.40                  |
| 1.1                        | 25.30                  | 6.5                        | 25.20                  |
| 1.2                        | 26.00                  | 7.0                        | 24.40                  |
| 1.3                        | 26.20                  | 7.5                        | 24.00                  |
| 1.4                        | 26.30                  | 8.0                        | 23.90                  |
| 1.5                        | 26.40                  | 8.5                        | 24.50                  |
| 1.6                        | 26.50                  | 9.0                        | 25.20                  |
| 1.7                        | 26.60                  | 9.5                        | 24.80                  |
| 1.8                        | 26.50                  | 10.0                       | 24.90                  |
| 1.9                        | 26.60                  | 11.0                       | 25.40                  |
| 2.0                        | 26.70                  | 12.0                       | 24.50                  |
| 2.5                        | 26.90                  | 13.0                       | 24.30                  |
| 3.0                        | 27.00                  | 14.0                       | 25.20                  |
| 3.5                        | 27.10                  | 15.0                       | 25.90                  |
| 4.0                        | 26.60                  | 16.0                       | 25.60                  |
| 4.5                        | 26.10                  | 17.0                       | 23.70                  |
| 5.0                        | 26.40                  | 18.0                       | 25.80                  |
| 5.5                        | 25.80                  |                            |                        |

**COM-POWER AH826****HORN ANTENNA****S/N: 71957**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 18.0                       | 33.5                   | 22.5                       | 35.5                   |
| 18.5                       | 33.5                   | 23.0                       | 35.9                   |
| 19.0                       | 34.0                   | 23.5                       | 35.7                   |
| 19.5                       | 34.0                   | 24.0                       | 35.6                   |
| 20.0                       | 34.3                   | 24.5                       | 36.0                   |
| 20.5                       | 34.9                   | 25.0                       | 36.2                   |
| 21.0                       | 34.7                   | 25.5                       | 36.1                   |
| 21.5                       | 35.0                   | 26.0                       | 36.2                   |
| 22.0                       | 35.0                   | 26.5                       | 35.7                   |

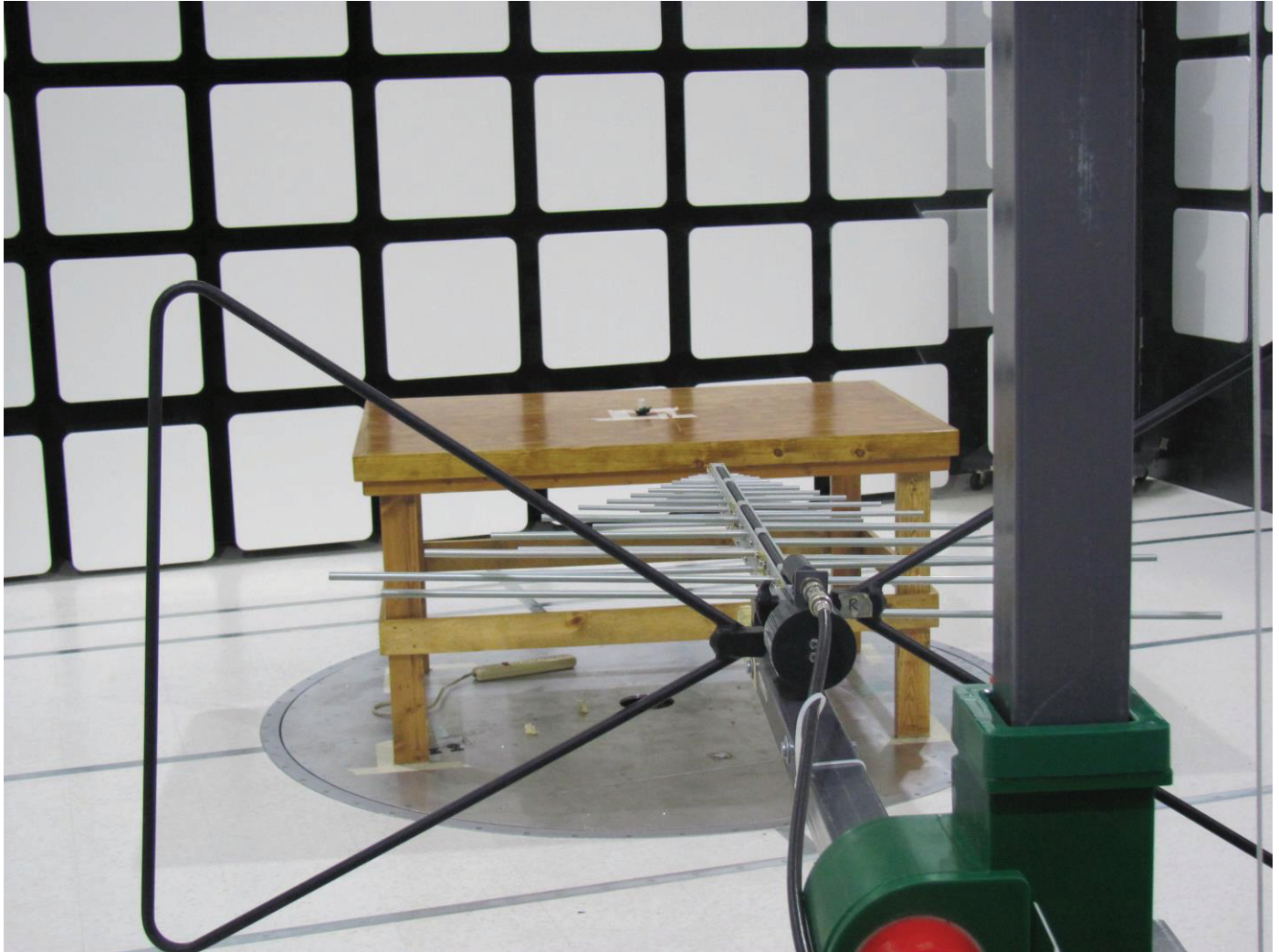
**COM-POWER PA-840**

**MICROWAVE PREAMPLIFIER**

**S/N: 711013**

**CALIBRATION DATE: MAY 13, 2014**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 18.0                       | 25.19                  | 31.0                       | 25.69                  |
| 19.0                       | 24.48                  | 31.5                       | 25.74                  |
| 20.0                       | 24.39                  | 32.0                       | 26.35                  |
| 21.0                       | 24.73                  | 32.5                       | 26.64                  |
| 22.0                       | 23.49                  | 33.0                       | 25.98                  |
| 23.0                       | 24.23                  | 33.5                       | 24.68                  |
| 24.0                       | 24.59                  | 34.0                       | 24.61                  |
| 25.0                       | 25.32                  | 34.5                       | 23.78                  |
| 26.0                       | 25.66                  | 35.0                       | 24.74                  |
| 26.5                       | 25.99                  | 35.5                       | 24.39                  |
| 27.0                       | 26.26                  | 36.5                       | 23.71                  |
| 27.5                       | 25.33                  | 37.0                       | 26.35                  |
| 28.0                       | 24.49                  | 37.5                       | 23.94                  |
| 28.5                       | 24.74                  | 38.0                       | 25.42                  |
| 29.0                       | 25.93                  | 38.5                       | 24.87                  |
| 29.5                       | 26.28                  | 39.0                       | 22.60                  |
| 30.0                       | 26.17                  | 39.5                       | 20.57                  |
| 30.5                       | 26.11                  | 40.0                       | 19.15                  |



**FRONT VIEW**

**BLUE MAESTRO LIMITED  
PACIFI  
MODEL: PAC1**

**FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz**

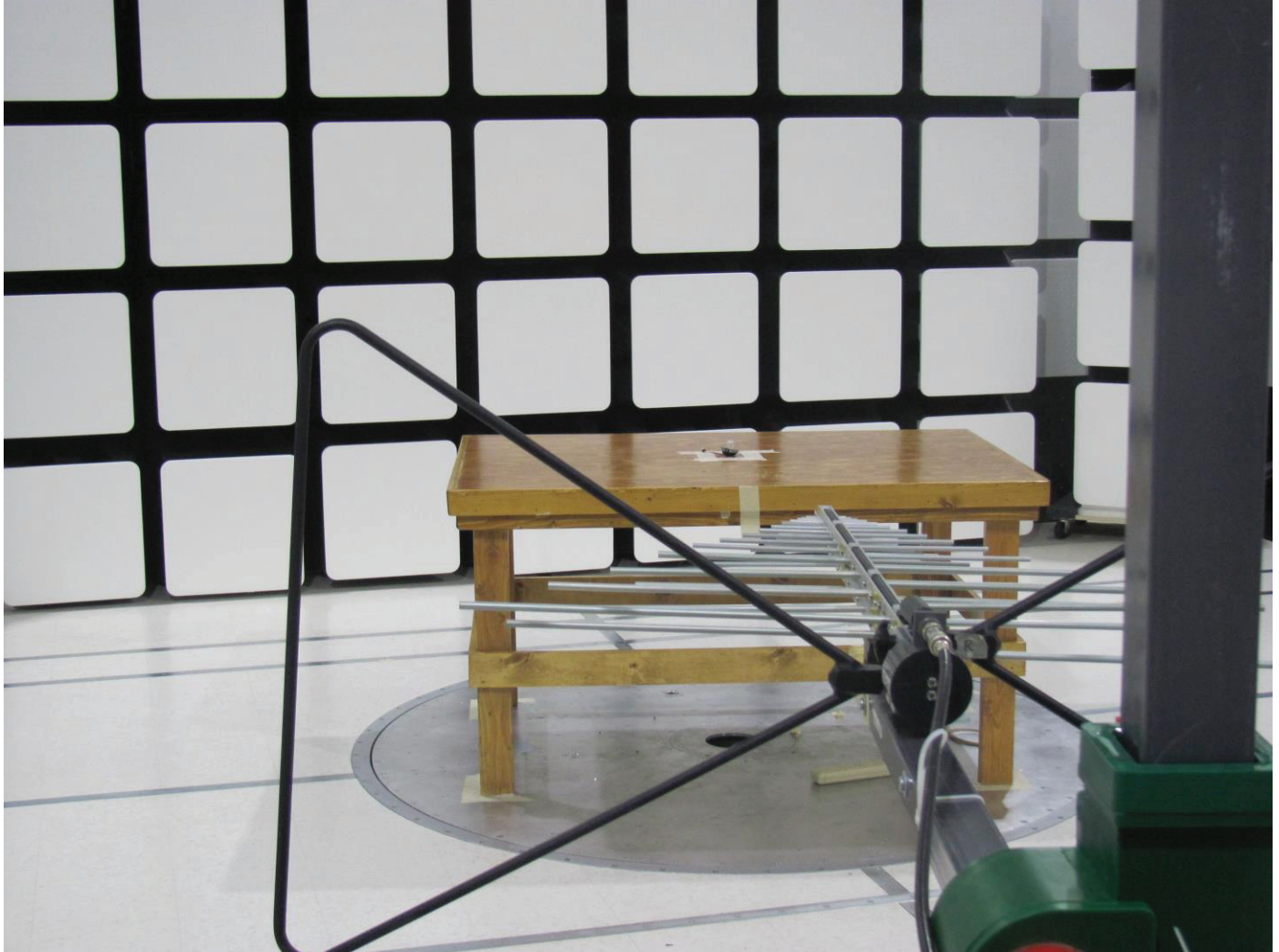
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

**Agoura Division**  
2337 Troutdale Drive  
Agoura, CA 91301  
(818) 597-0600

**Silverado Division**  
19121 El Toro Road  
Silverado, CA 92676  
(949) 589-0700

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**REAR VIEW**

BLUE MAESTRO LIMITED  
PACIFI  
MODEL: PAC1

FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

Brea Division  
114 Olinda Drive  
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(714) 579-0500

Agoura Division  
2337 Troutdale Drive  
Agoura, CA 91301  
(818) 597-0600

Silverado Division  
19121 El Toro Road  
Silverado, CA 92676  
(949) 589-0700

Lake Forest Division  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**FRONT VIEW**

**BLUE MAESTRO LIMITED  
PACIFI  
MODEL: PAC1**

**FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz**

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

**Agoura Division**  
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Agoura, CA 91301  
(818) 597-0600

**Silverado Division**  
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Silverado, CA 92676  
(949) 589-0700

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**REAR VIEW**

BLUE MAESTRO LIMITED  
PACIFI  
MODEL: PAC1

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

Brea Division  
114 Olinda Drive  
Brea, CA 92823  
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Silverado, CA 92676  
(949) 589-0700

Lake Forest Division  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**APPENDIX E**

***DATA SHEETS***



***RADIATED EMISSIONS***

***DATA SHEETS***

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**

X-Axis - Vertical

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2402           | 67.85           | V            | 114   | -46.15 | Peak                  | 1.25                  | 155                     |             |
| 2402           | 47.85           | V            | 94    | -46.15 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4804           | 49.17           | V            | 74    | -24.83 | Peak                  | 1.25                  | 135                     |             |
| 4804           | 29.17           | V            | 54    | -24.83 | Avg                   | 1.25                  | 135                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7206           | 54.51           | V            | 74    | -19.49 | Peak                  | 1.25                  | 155                     |             |
| 7206           | 34.51           | V            | 54    | -19.49 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9608           |                 |              |       |        |                       |                       |                         | No Emission |
| 9608           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12010          |                 |              |       |        |                       |                       |                         | No Emission |
| 12010          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14412          |                 |              |       |        |                       |                       |                         | No Emission |
| 14412          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16814          |                 |              |       |        |                       |                       |                         | No Emission |
| 16814          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19216          |                 |              |       |        |                       |                       |                         | No Emission |
| 19216          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21618          |                 |              |       |        |                       |                       |                         | No Emission |
| 21618          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24020          |                 |              |       |        |                       |                       |                         | No Emission |
| 24020          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------|
| 2402           | 69.42           | H            | 114   | -44.58 | Peak                  | 1.25                  | 155                     |                         |
| 2402           | 49.42           | H            | 94    | -44.58 | Avg                   | 1.25                  | 155                     |                         |
| 4804           | 52.15           | H            | 74    | -21.85 | Peak                  | 1.35                  | 165                     |                         |
| 4804           | 32.15           | H            | 54    | -21.85 | Avg                   | 1.35                  | 165                     |                         |
| 7206           | 50.85           | H            | 74    | -23.15 | Peak                  | 1.25                  | 175                     |                         |
| 7206           | 30.85           | H            | 54    | -23.15 | Avg                   | 1.25                  | 175                     |                         |
| 9608           |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 12010          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 14412          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 16814          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 19216          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 21618          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 24020          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**

**Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2402           | 67.61           | V            | 114   | -46.39 | Peak                  | 1.25                  | 155                     |             |
| 2402           | 47.61           | V            | 94    | -46.39 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4804           | 54.18           | V            | 74    | -19.82 | Peak                  | 1.25                  | 155                     |             |
| 4804           | 34.18           | V            | 54    | -19.82 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7206           | 49.65           | V            | 74    | -24.35 | Peak                  | 1.35                  | 165                     |             |
| 7206           | 29.65           | V            | 54    | -24.35 | Avg                   | 1.35                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9608           |                 |              |       |        |                       |                       |                         | No Emission |
| 9608           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12010          |                 |              |       |        |                       |                       |                         | No Emission |
| 12010          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14412          |                 |              |       |        |                       |                       |                         | No Emission |
| 14412          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16814          |                 |              |       |        |                       |                       |                         | No Emission |
| 16814          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19216          |                 |              |       |        |                       |                       |                         | No Emission |
| 19216          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21618          |                 |              |       |        |                       |                       |                         | No Emission |
| 21618          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24020          |                 |              |       |        |                       |                       |                         | No Emission |
| 24020          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**

Y-Axis - Horizontal

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2402           | 70.5            | H            | 114   | -43.5  | Peak                  | 1.25                  | 155                     |             |
| 2402           | 50.5            | H            | 94    | -43.5  | Avg                   | 1.25                  | 155                     |             |
| 4804           | 53.44           | H            | 74    | -20.56 | Peak                  | 1.25                  | 145                     |             |
| 4804           | 33.44           | H            | 54    | -20.56 | Avg                   | 1.25                  | 145                     |             |
| 7206           | 53.11           | H            | 74    | -20.89 | Peak                  | 1.25                  | 155                     |             |
| 7206           | 33.11           | H            | 54    | -20.89 | Avg                   | 1.25                  | 155                     |             |
| 9608           |                 |              |       |        |                       |                       |                         | No Emission |
| 9608           |                 |              |       |        |                       |                       |                         | Detected    |
| 12010          |                 |              |       |        |                       |                       |                         | No Emission |
| 12010          |                 |              |       |        |                       |                       |                         | Detected    |
| 14412          |                 |              |       |        |                       |                       |                         | No Emission |
| 14412          |                 |              |       |        |                       |                       |                         | Detected    |
| 16814          |                 |              |       |        |                       |                       |                         | No Emission |
| 16814          |                 |              |       |        |                       |                       |                         | Detected    |
| 19216          |                 |              |       |        |                       |                       |                         | No Emission |
| 19216          |                 |              |       |        |                       |                       |                         | Detected    |
| 21618          |                 |              |       |        |                       |                       |                         | No Emission |
| 21618          |                 |              |       |        |                       |                       |                         | Detected    |
| 24020          |                 |              |       |        |                       |                       |                         | No Emission |
| 24020          |                 |              |       |        |                       |                       |                         | Detected    |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**

Z-Axis - Vertical

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2402           | 67.84           | V            | 114   | -46.16 | Peak                  | 1.25                  | 180                     |             |
| 2402           | 47.84           | V            | 94    | -46.16 | Avg                   | 1.25                  | 180                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4804           | 51.89           | V            | 74    | -22.11 | Peak                  | 1.25                  | 135                     |             |
| 4804           | 31.89           | V            | 54    | -22.11 | Avg                   | 1.25                  | 135                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7206           | 53.51           | V            | 74    | -20.49 | Peak                  | 1.25                  | 145                     |             |
| 7206           | 33.51           | V            | 54    | -20.49 | Avg                   | 1.25                  | 145                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9608           |                 |              |       |        |                       |                       |                         | No Emission |
| 9608           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12010          |                 |              |       |        |                       |                       |                         | No Emission |
| 12010          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14412          |                 |              |       |        |                       |                       |                         | No Emission |
| 14412          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16814          |                 |              |       |        |                       |                       |                         | No Emission |
| 16814          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19216          |                 |              |       |        |                       |                       |                         | No Emission |
| 19216          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21618          |                 |              |       |        |                       |                       |                         | No Emission |
| 21618          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24020          |                 |              |       |        |                       |                       |                         | No Emission |
| 24020          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------|
| 2402           | 68.88           | H            | 114   | -45.12 | Peak                  | 1.25                  | 155                     |                         |
| 2402           | 48.88           | H            | 94    | -45.12 | Avg                   | 1.25                  | 155                     |                         |
| 4804           | 53.29           | H            | 74    | -20.71 | Peak                  | 1.25                  | 165                     |                         |
| 4804           | 33.29           | H            | 54    | -20.71 | Avg                   | 1.25                  | 165                     |                         |
| 7206           | 53.44           | H            | 74    | -20.56 | Peak                  | 1.35                  | 165                     |                         |
| 7206           | 33.44           | H            | 54    | -20.56 | Avg                   | 1.35                  | 165                     |                         |
| 9608           |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 12010          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 14412          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 16814          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 19216          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 21618          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 24020          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel**
**X-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2426           | 69.23           | V            | 114   | -44.77 | Peak                  | 1.25                  | 155                     |             |
| 2426           | 49.23           | V            | 94    | -44.77 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4852           | 48.13           | V            | 74    | -25.87 | Peak                  | 1.35                  | 165                     |             |
| 4852           | 28.13           | V            | 54    | -25.87 | Avg                   | 1.35                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7278           | 45.98           | V            | 74    | -28.02 | Peak                  | 1.25                  | 175                     |             |
| 7278           | 25.98           | V            | 54    | -28.02 | Avg                   | 1.25                  | 175                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9704           |                 |              |       |        |                       |                       |                         | No Emission |
| 9704           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12130          |                 |              |       |        |                       |                       |                         | No Emission |
| 12130          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14556          |                 |              |       |        |                       |                       |                         | No Emission |
| 14556          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16982          |                 |              |       |        |                       |                       |                         | No Emission |
| 16982          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19408          |                 |              |       |        |                       |                       |                         | No Emission |
| 19408          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21834          |                 |              |       |        |                       |                       |                         | No Emission |
| 21834          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24260          |                 |              |       |        |                       |                       |                         | No Emission |
| 24260          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel**
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2426           | 71.04           | H            | 114   | -42.96 | Peak                  | 1.25                  | 155                     |             |
| 2426           | 51.04           | H            | 94    | -42.96 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4852           | 51.49           | H            | 74    | -22.51 | Peak                  | 1.25                  | 145                     |             |
| 4852           | 31.49           | H            | 54    | -22.51 | Avg                   | 1.25                  | 145                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7278           | 54.82           | H            | 74    | -19.18 | Peak                  | 1.35                  | 165                     |             |
| 7278           | 34.82           | H            | 54    | -19.18 | Avg                   | 1.35                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9704           |                 |              |       |        |                       |                       |                         | No Emission |
| 9704           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12130          |                 |              |       |        |                       |                       |                         | No Emission |
| 12130          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14556          |                 |              |       |        |                       |                       |                         | No Emission |
| 14556          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16982          |                 |              |       |        |                       |                       |                         | No Emission |
| 16982          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19408          |                 |              |       |        |                       |                       |                         | No Emission |
| 19408          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21834          |                 |              |       |        |                       |                       |                         | No Emission |
| 21834          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24260          |                 |              |       |        |                       |                       |                         | No Emission |
| 24260          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel  
Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------|
| 2426           | 69.17           | V            | 114   | -44.83 | Peak                  | 1.25                  | 155                     |                         |
| 2426           | 49.17           | V            | 94    | -44.83 | Avg                   | 1.25                  | 155                     |                         |
| 4852           | 53.62           | V            | 74    | -20.38 | Peak                  | 1.25                  | 155                     |                         |
| 4852           | 33.62           | V            | 54    | -20.38 | Avg                   | 1.25                  | 155                     |                         |
| 7278           | 53.48           | V            | 114   | -60.52 | Peak                  | 1.25                  | 145                     |                         |
| 7278           | 33.48           | V            | 94    | -60.52 | Avg                   | 1.25                  | 145                     |                         |
| 9704           |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 12130          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 14556          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 16982          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 19408          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 21834          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 24260          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel**

Y-Axis - Horizontal

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2426           | 70.14           | H            | 114   | -43.86 | Peak                  | 1.25                  | 225                     |             |
| 2426           | 50.14           | H            | 94    | -43.86 | Avg                   | 1.25                  | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4852           | 51.62           | H            | 74    | -22.38 | Peak                  | 1.25                  | 155                     |             |
| 4852           | 31.62           | H            | 54    | -22.38 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7278           | 53.36           | H            | 74    | -20.64 | Peak                  | 1.25                  | 145                     |             |
| 7278           | 33.36           | H            | 54    | -20.64 | Avg                   | 1.25                  | 145                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9704           |                 |              |       |        |                       |                       |                         | No Emission |
| 9704           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12130          |                 |              |       |        |                       |                       |                         | No Emission |
| 12130          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14556          |                 |              |       |        |                       |                       |                         | No Emission |
| 14556          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16982          |                 |              |       |        |                       |                       |                         | No Emission |
| 16982          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19408          |                 |              |       |        |                       |                       |                         | No Emission |
| 19408          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21834          |                 |              |       |        |                       |                       |                         | No Emission |
| 21834          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24260          |                 |              |       |        |                       |                       |                         | No Emission |
| 24260          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel**
**Z-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------|
| 2426           | 71.81           | V            | 114   | -42.19 | Peak                  | 1.25                  | 155                     |                         |
| 2426           | 51.81           | V            | 94    | -42.19 | Avg                   | 1.25                  | 155                     |                         |
| 4852           | 51.79           | V            | 74    | -22.21 | Peak                  | 1.35                  | 165                     |                         |
| 4852           | 31.79           | V            | 54    | -22.21 | Avg                   | 1.35                  | 165                     |                         |
| 7278           | 54.06           | V            | 74    | -19.94 | Peak                  | 1.25                  | 175                     |                         |
| 7278           | 34.06           | V            | 54    | -19.94 | Avg                   | 1.25                  | 175                     |                         |
| 9704           |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 12130          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 14556          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 16982          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 19408          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 21834          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |
| 24260          |                 |              |       |        |                       |                       |                         | No Emission<br>Detected |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel**
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2426           | 70.63           | H            | 114   | -43.37 | Peak                  | 1.25                  | 155                     |             |
| 2426           | 50.63           | H            | 94    | -43.37 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4852           | 52.27           | H            | 74    | -21.73 | Peak                  | 1.35                  | 145                     |             |
| 4852           | 32.27           | H            | 54    | -21.73 | Avg                   | 1.35                  | 145                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7278           | 54.08           | H            | 74    | -19.92 | Peak                  | 1.25                  | 155                     |             |
| 7278           | 34.08           | H            | 54    | -19.92 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9704           |                 |              |       |        |                       |                       |                         | No Emission |
| 9704           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12130          |                 |              |       |        |                       |                       |                         | No Emission |
| 12130          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14556          |                 |              |       |        |                       |                       |                         | No Emission |
| 14556          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 16982          |                 |              |       |        |                       |                       |                         | No Emission |
| 16982          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19408          |                 |              |       |        |                       |                       |                         | No Emission |
| 19408          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21834          |                 |              |       |        |                       |                       |                         | No Emission |
| 21834          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24260          |                 |              |       |        |                       |                       |                         | No Emission |
| 24260          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**High Channel**
**X-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2480           | 72.82           | V            | 114   | -41.18 | Peak                  | 1.25                  | 155                     |             |
| 2480           | 52.82           | V            | 94    | -41.18 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4960           | 48.31           | V            | 74    | -25.69 | Peak                  | 1.25                  | 155                     |             |
| 4960           | 28.31           | V            | 54    | -25.69 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 52.03           | V            | 74    | -21.97 | Peak                  | 1.35                  | 165                     |             |
| 7440           | 32.03           | V            | 54    | -21.97 | Avg                   | 1.35                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           |                 |              |       |        |                       |                       |                         | No Emission |
| 9920           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12400          |                 |              |       |        |                       |                       |                         | No Emission |
| 12400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14880          |                 |              |       |        |                       |                       |                         | No Emission |
| 14880          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17360          |                 |              |       |        |                       |                       |                         | No Emission |
| 17360          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19840          |                 |              |       |        |                       |                       |                         | No Emission |
| 19840          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 22320          |                 |              |       |        |                       |                       |                         | No Emission |
| 22320          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24800          |                 |              |       |        |                       |                       |                         | No Emission |
| 24800          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**  
Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014  
Lab: B  
Tested By: Kyle Fujimoto

**High Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2480           | 66.72           | H            | 114   | -47.28 | Peak                  | 1.25                  | 155                     |             |
| 2480           | 46.72           | H            | 94    | -47.28 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4960           | 47.98           | H            | 74    | -26.02 | Peak                  | 1.25                  | 145                     |             |
| 4960           | 27.98           | H            | 54    | -26.02 | Avg                   | 1.25                  | 145                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 50.35           | H            | 74    | -23.65 | Peak                  | 1.35                  | 155                     |             |
| 7440           | 30.35           | H            | 54    | -23.65 | Avg                   | 1.35                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           |                 |              |       |        |                       |                       |                         | No Emission |
| 9920           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12400          |                 |              |       |        |                       |                       |                         | No Emission |
| 12400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14880          |                 |              |       |        |                       |                       |                         | No Emission |
| 14880          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17360          |                 |              |       |        |                       |                       |                         | No Emission |
| 17360          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19840          |                 |              |       |        |                       |                       |                         | No Emission |
| 19840          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 22320          |                 |              |       |        |                       |                       |                         | No Emission |
| 22320          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24800          |                 |              |       |        |                       |                       |                         | No Emission |
| 24800          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
Pacifi  
Model: PAC1

Date: 07/10/2014  
Lab: B  
Tested By: Kyle Fujimoto

**High Channel  
Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2480           | 69.61           | V            | 114   | -44.39 | Peak                  | 1.25                  | 155                     |             |
| 2480           | 49.61           | V            | 94    | -44.39 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4960           | 48.81           | V            | 74    | -25.19 | Peak                  | 1.25                  | 165                     |             |
| 4960           | 28.81           | V            | 54    | -25.19 | Avg                   | 1.25                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 50.52           | V            | 74    | -23.48 | Peak                  | 1.35                  | 175                     |             |
| 7440           | 30.52           | V            | 54    | -23.48 | Avg                   | 1.35                  | 175                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           |                 |              |       |        |                       |                       |                         | No Emission |
| 9920           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12400          |                 |              |       |        |                       |                       |                         | No Emission |
| 12400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14880          |                 |              |       |        |                       |                       |                         | No Emission |
| 14880          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17360          |                 |              |       |        |                       |                       |                         | No Emission |
| 17360          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19840          |                 |              |       |        |                       |                       |                         | No Emission |
| 19840          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 22320          |                 |              |       |        |                       |                       |                         | No Emission |
| 22320          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24800          |                 |              |       |        |                       |                       |                         | No Emission |
| 24800          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

High Channel

Y-Axis - Horizontal

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2480           | 71.48           | H            | 114   | -42.52 | Peak                  | 1.5                   | 225                     |             |
| 2480           | 51.48           | H            | 94    | -42.52 | Avg                   | 1.5                   | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4960           | 46.97           | H            | 74    | -27.03 | Peak                  | 1.35                  | 225                     |             |
| 4960           | 26.97           | H            | 54    | -27.03 | Avg                   | 1.35                  | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 50.85           | H            | 74    | -23.15 | Peak                  | 1.25                  | 135                     |             |
| 7440           | 30.85           | H            | 54    | -23.15 | Avg                   | 1.25                  | 135                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           |                 |              |       |        |                       |                       |                         | No Emission |
| 9920           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12400          |                 |              |       |        |                       |                       |                         | No Emission |
| 12400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14880          |                 |              |       |        |                       |                       |                         | No Emission |
| 14880          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17360          |                 |              |       |        |                       |                       |                         | No Emission |
| 17360          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19840          |                 |              |       |        |                       |                       |                         | No Emission |
| 19840          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 22320          |                 |              |       |        |                       |                       |                         | No Emission |
| 22320          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24800          |                 |              |       |        |                       |                       |                         | No Emission |
| 24800          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro

Pacifi

Model: PAC1

Date: 07/10/2014

Lab: B

Tested By: Kyle Fujimoto

**High Channel**

Z-Axis - Vertical

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2480           | 66.17           | V            | 114   | -47.83 | Peak                  | 1.25                  | 90                      |             |
| 2480           | 46.17           | V            | 94    | -47.83 | Avg                   | 1.25                  | 90                      |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4960           | 47.34           | V            | 74    | -26.66 | Peak                  | 1.25                  | 225                     |             |
| 4960           | 27.34           | V            | 54    | -26.66 | Avg                   | 1.25                  | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 50.28           | V            | 74    | -23.72 | Peak                  | 1.25                  | 135                     |             |
| 7440           | 30.28           | V            | 54    | -23.72 | Avg                   | 1.25                  | 135                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           |                 |              |       |        |                       |                       |                         | No Emission |
| 9920           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12400          |                 |              |       |        |                       |                       |                         | No Emission |
| 12400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14880          |                 |              |       |        |                       |                       |                         | No Emission |
| 14880          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17360          |                 |              |       |        |                       |                       |                         | No Emission |
| 17360          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19840          |                 |              |       |        |                       |                       |                         | No Emission |
| 19840          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 22320          |                 |              |       |        |                       |                       |                         | No Emission |
| 22320          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24800          |                 |              |       |        |                       |                       |                         | No Emission |
| 24800          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

Blue Maestro  
 Pacifi  
 Model: PAC1

Date: 07/10/2014  
 Lab: B  
 Tested By: Kyle Fujimoto

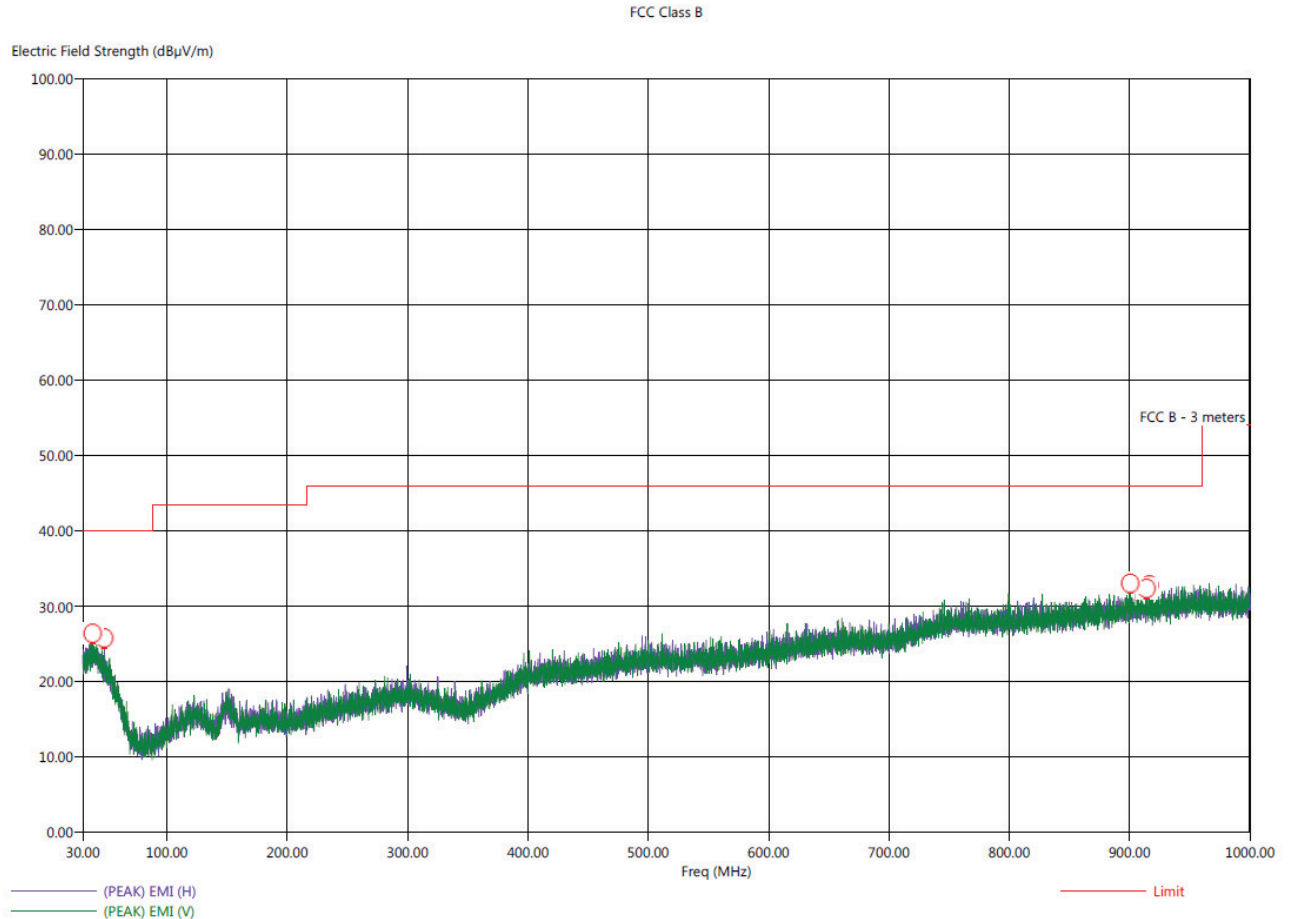
**High Channel  
 Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2480           | 70.08           | H            | 114   | -43.92 | Peak                  | 1.25                  | 0                       |             |
| 2480           | 50.08           | H            | 94    | -43.92 | Avg                   | 1.25                  | 0                       |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 4960           | 47.94           | H            | 74    | -26.06 | Peak                  | 1.25                  | 165                     |             |
| 4960           | 27.94           | H            | 54    | -26.06 | Avg                   | 1.25                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 48.96           | H            | 74    | -25.04 | Peak                  | 1.25                  | 155                     |             |
| 7440           | 28.96           | H            | 54    | -25.04 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           |                 |              |       |        |                       |                       |                         | No Emission |
| 9920           |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 12400          |                 |              |       |        |                       |                       |                         | No Emission |
| 12400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14880          |                 |              |       |        |                       |                       |                         | No Emission |
| 14880          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17360          |                 |              |       |        |                       |                       |                         | No Emission |
| 17360          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19840          |                 |              |       |        |                       |                       |                         | No Emission |
| 19840          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 22320          |                 |              |       |        |                       |                       |                         | No Emission |
| 22320          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24800          |                 |              |       |        |                       |                       |                         | No Emission |
| 24800          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |



Title: Pre-Scan - FCC Class B  
File: Agilent - Radiated Pre-Scan - X-Axis - FCC Class B.set  
Operator: Kyle Fujimoto  
EUT Type: Pacifi  
EUT Condition: Continuously Transmitting - X-Axis (Worst Case)  
Comments: Customer: Blue Maestro Limited  
M/N: PAC1

7/10/2014 3:19:36 PM  
Sequence: Preliminary Scan



Title: Radiated Final - 30-1000 MHz - FCC Class B  
File: Agilent - Radiated Final Scan - X-Axis - FCC Class B.set  
Operator: Kyle Fujimoto  
EUT Type: Pacifi  
EUT Condition: Continuously Transmitting - X-Axis (Worst Case)  
Comments: Customer: Blue Maestro Limited  
M/N: PAC1

7/10/2014 3:54:08 PM  
Sequence: Final Measurements

## Final Scan - FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBµV/m) | (QP) EMI<br>(dBµV/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dBµV/m) | Transducer<br>(dB) | Cable<br>(dB) | Twr Ht<br>(cm) | Ttbl Aql<br>(deg) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|----------------|-------------------|
| 38.30         | V   | 26.70                  | 21.96                | -13.30                | -18.04              | 40.00             | 24.04              | 0.42          | 333.97         | 49.75             |
| 47.90         | H   | 24.22                  | 20.16                | -15.78                | -19.84              | 40.00             | 22.31              | 0.49          | 100.00         | 198.75            |
| 900.70        | V   | 32.65                  | 27.89                | -13.35                | -18.11              | 46.00             | 27.01              | 2.64          | 306.32         | 110.25            |
| 912.50        | H   | 32.49                  | 28.17                | -13.51                | -17.83              | 46.00             | 27.18              | 2.66          | 290.68         | 179.75            |
| 914.20        | V   | 31.97                  | 28.17                | -14.03                | -17.83              | 46.00             | 27.20              | 2.66          | 168.71         | 174.75            |
| 916.60        | V   | 32.21                  | 28.14                | -13.79                | -17.86              | 46.00             | 27.24              | 2.66          | 203.40         | 85.00             |



***BAND EDGES***

***DATA SHEETS***

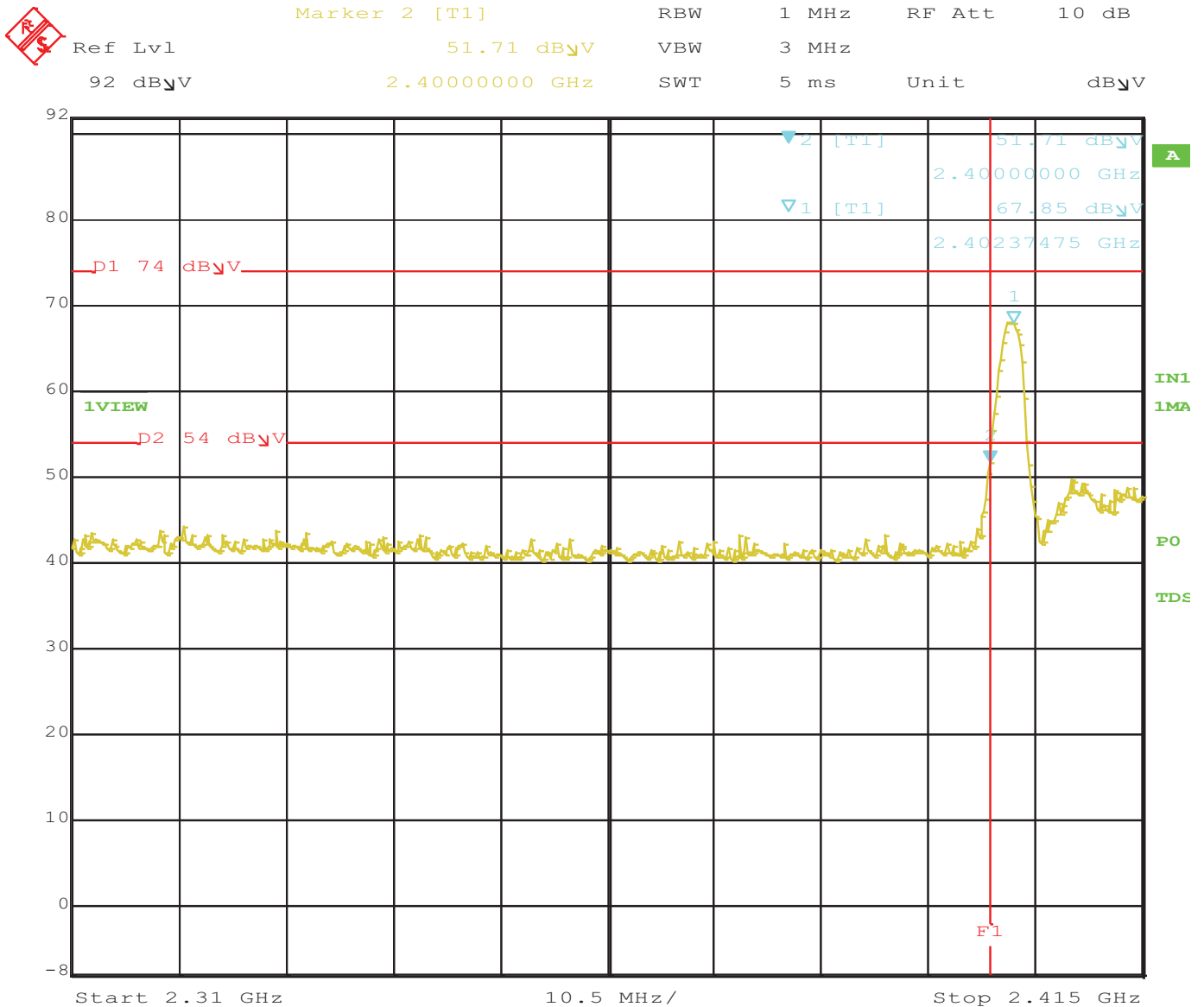
## FCC 15.249

Blue Maestro Limited  
Pacifi  
Model: PAC1

Date: 07/10/2014  
Lab: B  
Tested By: Kyle Fujimoto

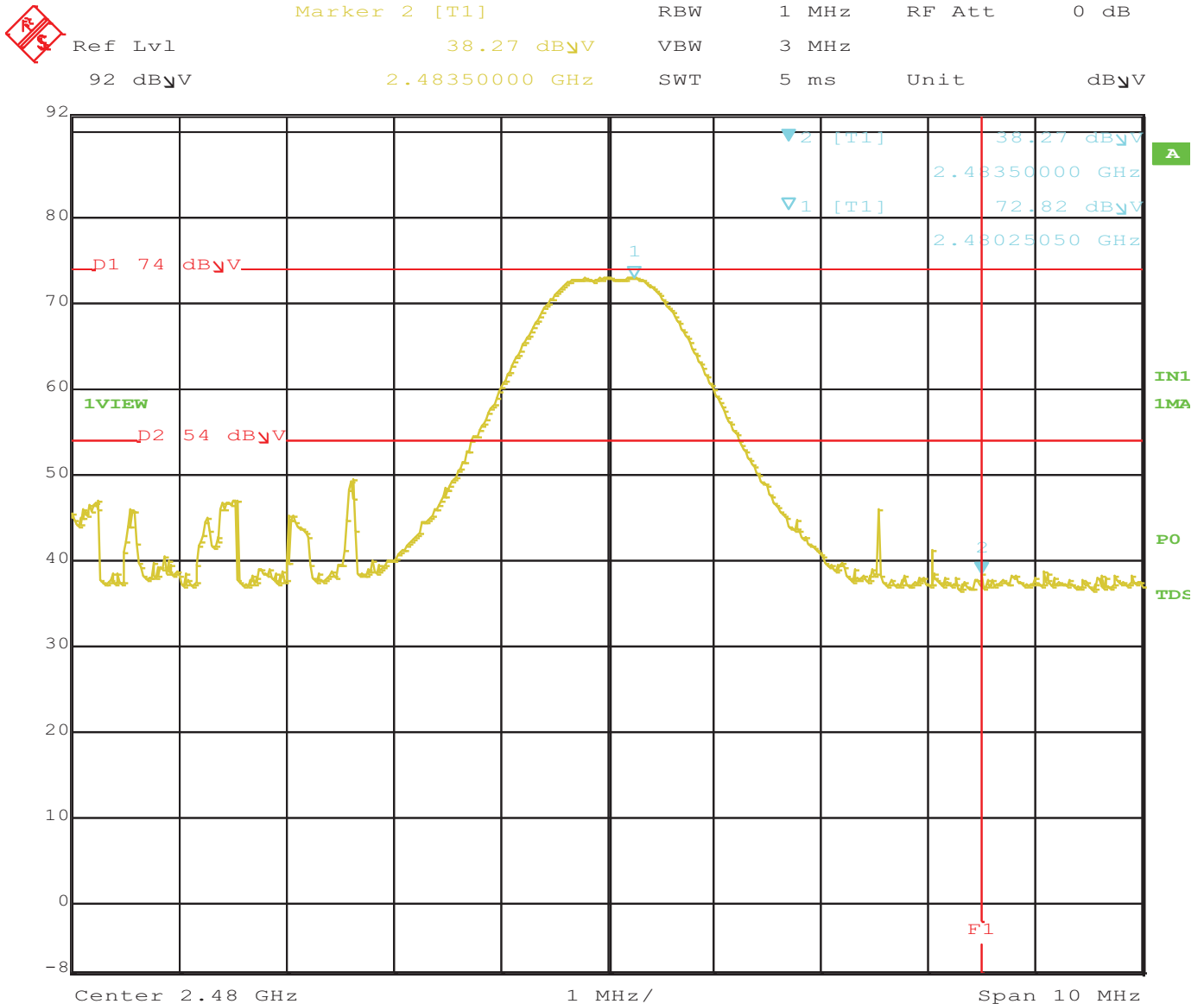
### Band Edges - Vertical and Horizontal Polarization

[illegible]



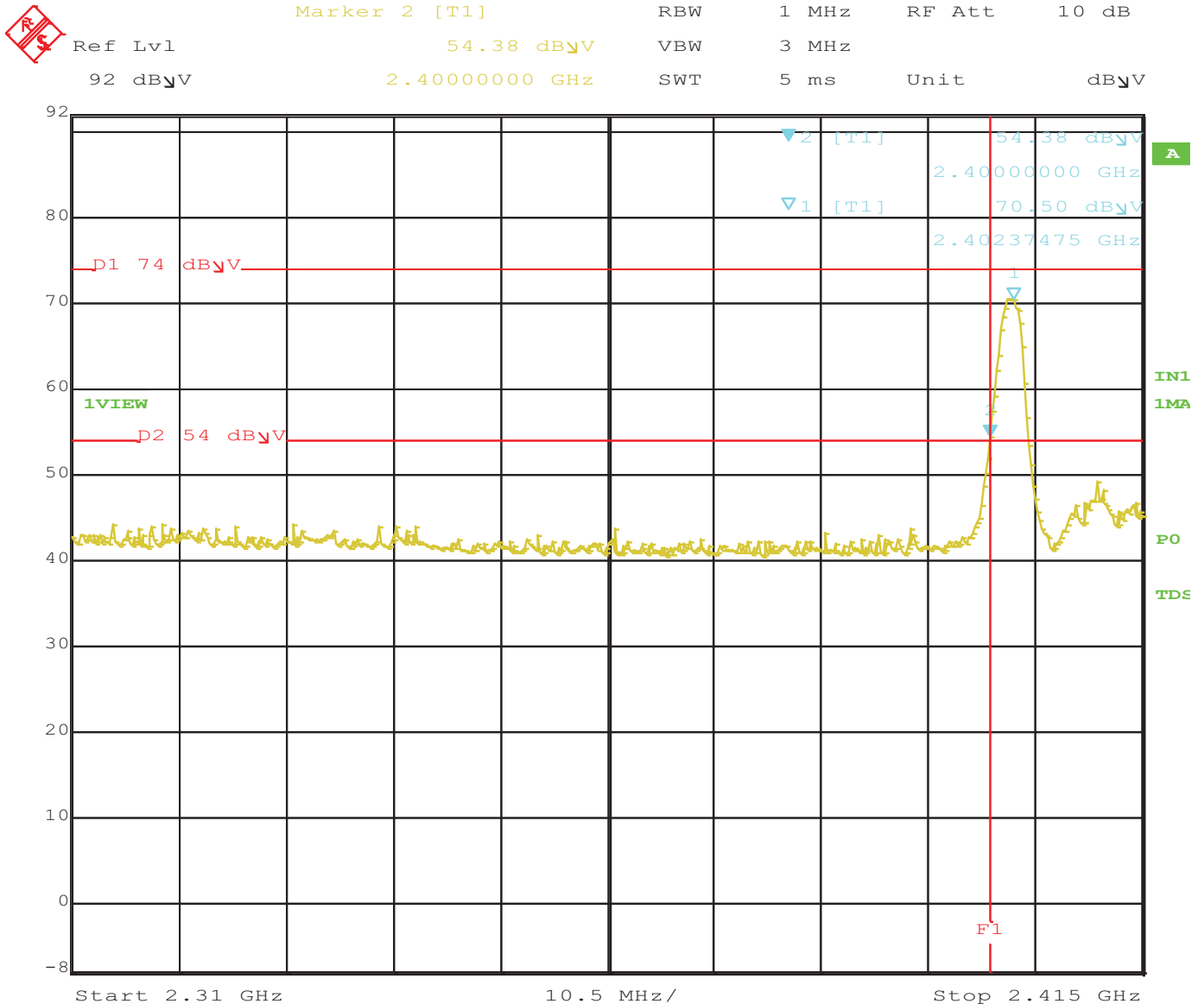
Date: 10.JUL.2014 12:43:57

Band Edge – Vertical Polarization – Low Channel – X-Axis (Worst Case)



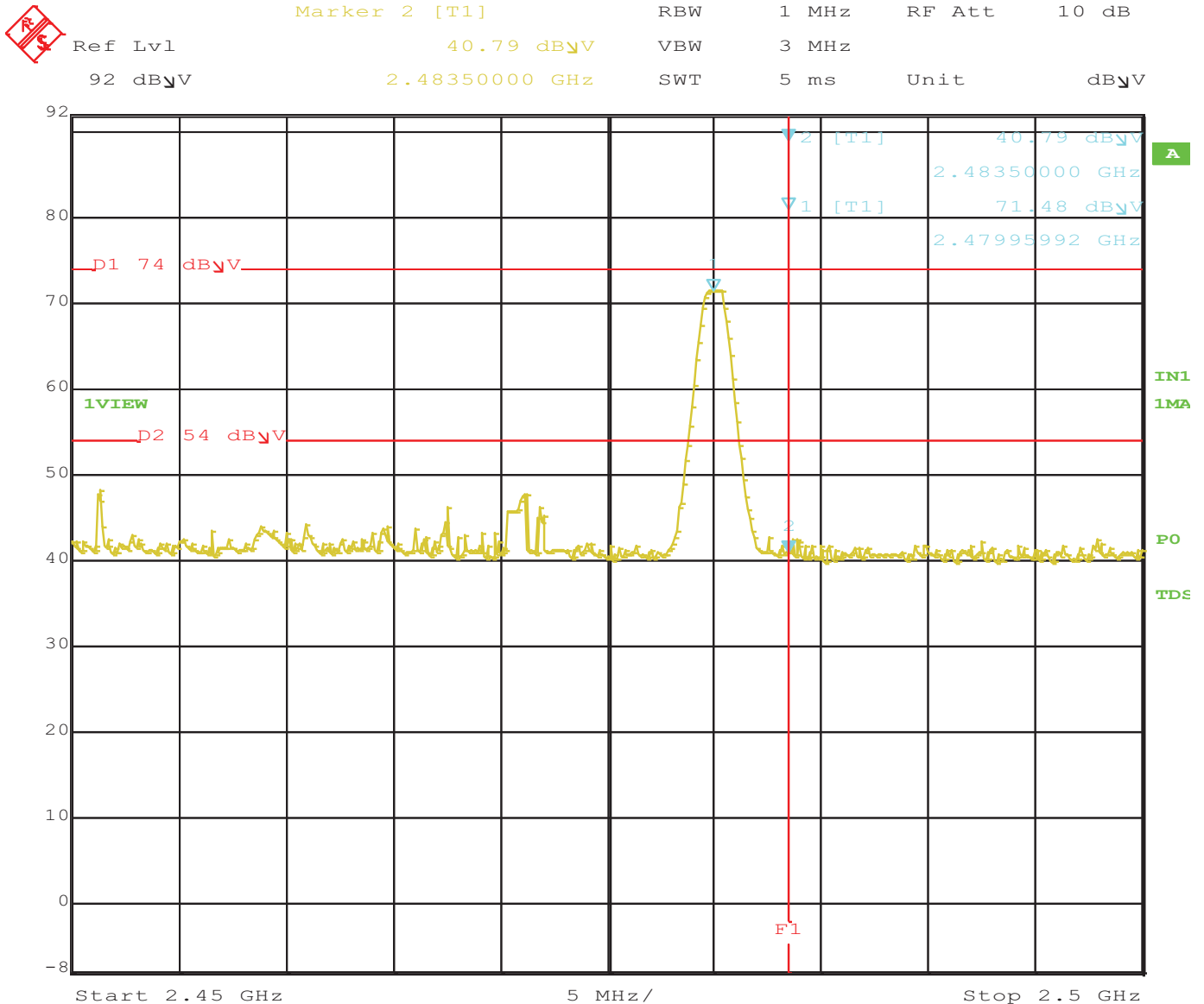
Date: 10.JUL.2014 13:15:24

Band Edge – Vertical Polarization – High Channel – X-Axis (Worst Case)



Date: 10.JUL.2014 12:49:45

Band Edge – Horizontal Polarization – Low Channel – Y-Axis (Worst Case)



Date: 10.JUL.2014 12:54:56

Band Edge – Horizontal Polarization – High Channel – Y-Axis (Worst Case)