

FCC PART 15 SUBPART B and C TEST REPORT

for

TEMPERATURE ALARM BASE UNIT WITH WIRELESS TRANSMITTER

Model: TA44T

Prepared for

SEALED UNIT PARTS COMPANY, INC. 2230 LANDMARK PLACE ALLENWOOD, NEW JERSEY 08720

Prepared by:

KYLE FUJIMOTO

Approved by:_///

MICHAEL CHRISTENSEN

COMPATIBLE ELECTRONICS INC. 114 OLINDA DRIVE BREA, CALIFORNIA 92823 (714) 579-0500

DATE: MARCH 15, 2010

| | REPORT | | APPENDICES | | | TOTAL | |
|-------|--------|---|------------|---|----|-------|----|
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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 endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Temperature Alarm Base Unit with Wireless Transmitter Device Tested:

> Model: TA44T S/N: N/A

See Expository Statement **Product Description:**

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

Customer: Sealed Unit Parts Company, Inc.

2230 Landmark Place

Allenwood, New Jersey 08720

Test Date(s): March 15, 2010

Test Specifications: EMI requirements

CFR Title 47, Part 15, Subpart B

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, 150 kHz – 30 MHz | Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and Subpart C, section 15.207 Highest reading in relation to spec limit: 42.23 dBuV @ 0.532 MHz (*U = 1.35 dB) |
| 2 | Radiated RF Emissions 10 kHz – 4180 MHz (Transmitter and Digital Portion) | Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231 Highest reading in relation to spec limit: 79.01 (Avg) dBuV @ 418 MHz (*U = 4.22 dB) |

^{*}U = Expanded Uncertainty with a coverage factor of k=2





PURPOSE 1.

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Temperature Alarm Base Unit with Wireless Transmitter, Model: TA44T. The EMI 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 15.231 for the transmitter portion.

Model: TA44T

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI 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

Sealed Unit Parts Company, Inc.

Alexander Brodetsky Senior VP, Engineering

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer

Michael Christensen Lab Manager, Brea Division

2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

2.5 Disposition of the Test Sample

The test sample has not yet been returned as of the date of this 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 Inc. Incorporated

PCB Printed Circuit Board
AC Alternating Current
VP Vice President
Tx Transmitter



3. APPLICABLE DOCUMENTS

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

| SPEC | TITLE |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CFR Title 47, Part 15 | FCC Rules – Radio frequency devices (including digital devices) |
| ANSI C63.4: 2003 | 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 |



DESCRIPTION OF TEST CONFIGURATION 4.

4.1 **Description of Test Configuration – EMI**

The Temperature Alarm Base Unit with Wireless Transmitter, Model: TA44T (EUT) was connected to a temperature sensor, a 12 volt AC Adapter, and a 24 volt AC Adapter (via a 240 ohm resistor). The EUT was continuously transmitting.

The EUT's antenna is directly screwed on to the PCB. The EUT transmits for 490.981964 ms when activated before shutting off. The EUT is activated when the temperature of the temperature sensor increases to the temperature set for the alarm condition.

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 2-meter unshielded cable connecting the EUT to the temperature sensor. The cable is hard wired into pins 1 and 2 of J1 at the EUT end and is hard wired into the temperature sensor. The cable was bundled to a length of 1 meter.
- This is a 2-meter unshielded cable connecting the EUT to the 12 volt AC Adapter. The cable is hard Cable 2 wired into pins 3 and 4 of J1 at the EUT end and is hard wired into the AC Adapter.
- Cable 3 This is a 2-meter unshielded cable connecting the EUT to the 24 AC Adapter. The cable is hard wired into pins 5 (through a 240 ohm resistor) and 6 of J1 at the EUT end and is hard wired into the AC Adapter.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|-------------------------------------------------------------|---------------------------------------|----------------|------------------|-------------|
| TEMPERATURE ALARM BASE UNIT WITH WIRELESS TRANSMITTER (EUT) | SEALED UNIT PARTS COMPANY, INC. | TA44T | N/A | X74TA44T001 |
| AC ADAPTER (FOR EUT) | SUPCO | YHD1200200U-22 | N/A | N/A |
| AC ADAPTER | N/A | 11269 REV 1 | N/A | N/A |
| 240 OHM RESISTOR | N/A | N/A | N/A | N/A |



5.2 EMI Test Equipment

| EQUIPMENT TYPE | MANU- FACTURER | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE | CALIBRATION DUE DATE |
|--------------------------------------------------------|--------------------------------------|-----------------|------------------|---------------------|-------------------------|
| GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS | | | | | |
| Computer | Hewlett Packard | 4530 | US91912319 | N/A | N/A |
| Spectrum Analyzer – Main Section | Hewlett Packard | 8566B | 3638A08768 | September 16, 2009 | Sept. 16, 2010 |
| Spectrum Analyzer – Display Section | Hewlett Packard | 85662A | 3701A22262 | September 16, 2009 | Sept. 16, 2010 |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2811A01363 | September 17, 2009 | Sept. 17, 2010 |
| EMI Receiver | Rohde & Schwarz | ESIB40 | 100194 | September 17, 2008 | Sept. 17, 2010 |
| Monitor | Hewlett Packard | D5258A | TW74500641 | N/A | N/A |
| | RF RADIATED EMISSIONS TEST EQUIPMENT | | | | |
| Biconical Antenna | Com Power | AB-900 | 15250 | February 16, 2010 | Feb. 16, 2011 |
| Log Periodic Antenna | Com Power | AL-100 | 16060 | June 15, 2009 | June 15, 2010 |
| Preamplifier | Com-Power | PA-102 | 1017 | January 6, 2010 | Jan. 6, 2011 |
| Loop Antenna | Com-Power | AL-130 | 17089 | September 29, 2008 | Sept. 29, 2010 |
| Horn Antenna | Com-Power | AH-118 | 071175 | June 27, 2008 | June 27, 2010 |
| Microwave Preamplifier | Com Power | PA-122 | 181921 | March 10, 2010 | March 10, 2011 |
| Antenna Mast | Com Power | AM-100 | N/A | N/A | N/A |
| RF CONDUCTED EMISSIONS TEST EQUIPMENT | | | | | |
| Emissions Program | Compatible Electronics | 2.3 (SR19) | N/A | N/A | N/A |
| LISN | Com Power | LI-215 | 12078 | September 28, 2009 | Sept. 28, 2010 |
| LISN | Com Power | LI-215 | 12082 | September 28, 2009 | Sept. 28, 2010 |
| Transient Limiter | Com Power | 252A910 | 1 | September 28, 2009 | Sept. 28, 2010 |

Model: TA44T



6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 of this report for EMI 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 quasipeak 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:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The measurement receiver was used as a measuring meter. A preamplifier was used to increase the sensitivity of the instrument. The measurement receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the measurement receiver records the highest measured reading over all the sweeps.

The readings were averaged by a "duty cycle correction factor", derived from 20 log (dwell time / one pulse train with blanking interval). The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE | TRANSDUCER | EFFECTIVE MEASUREMENT BANDWIDTH |
|----------------------|----------------------|---------------------------------------|
| 9 kHz to 150 kHz | Active Loop Antenna | 200 Hz |
| 150 kHz to 30 MHz | Active Loop Antenna | 9 kHz |
| 30 MHz to 300 MHz | Biconical Antenna | 120 kHz |
| 300 MHz to 1000 MHz | Log Periodic Antenna | 120 kHz |
| 1000 MHz to 4180 MHz | Horn Antenna | 1 MHz |

The final data was taken with a frequency span of 1 MHz for frequencies below 1000 MHz. For frequencies above 1000 MHz, the final data was taken with a frequency span of 10 MHz. The frequency span was reduced during the preliminary investigations as deemed necessary to distinguish between emissions from the EUT and any ambient signals.

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. 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 gunsight method was used when measuring with the horn antenna to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.



Radiated Emissions (Spurious and Harmonics) Test (Continued)

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 distance to obtain final test data. The final qualification data is located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.

Model: TA44T

7.2 **Bandwidth of the Fundamental**

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the EUT. Plots of the -20 dB bandwidth are located in Appendix E.

Test Results:

The EUT complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.231(c).

Model: TA44T

7.3 Transmission Test

The EUT was checked to see that the time of transmission did not exceed 5 seconds when the EUT was activated.

A plot of the time of the transmission when the EUT was activated is located in Appendix E.

Test Results:

The EUT complies with the maximum on time described in CFR Title 47, Part 15, Subpart C, section 15.231 (a)(2). The EUT ceases to transmit within 5 seconds of being activated.

Model: TA44T

8. CONCLUSIONS

The Temperature Alarm Base Unit with Wireless Transmitter, Model: TA44T (EUT), as tested, meets all of the <u>Class B</u> 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 15.231 for the transmitter portion.



APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

APPENDIX B

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 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 COVERED UNDER THIS REPORT



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Temperature Alarm Base Unit with Wireless Transmitter

Model: TA44T S/N: N/A

No additional models were covered under this report.





APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

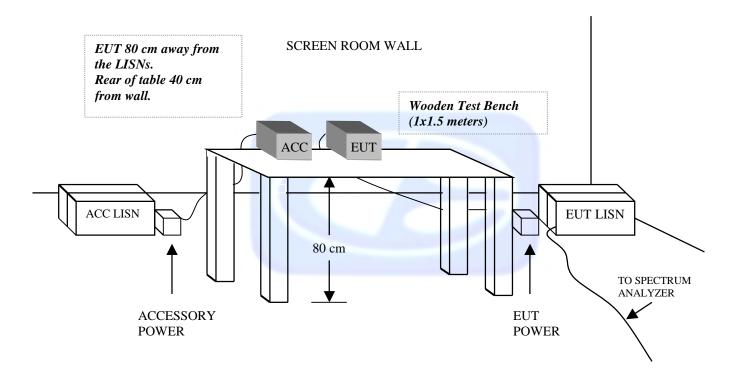
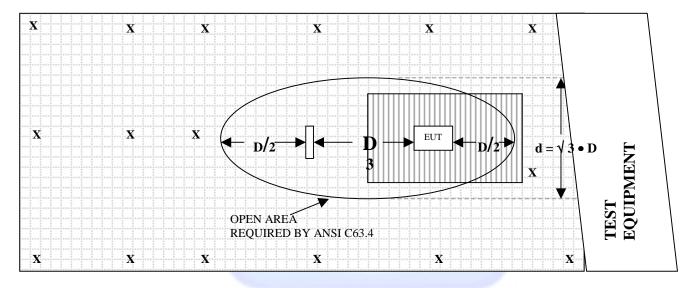




FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE – 3 METERS

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X = GROUND RODS = GROUND SCREEN

D = TEST DISTANCE (meters) = WOOD COVER



COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15250

CALIBRATION DATE: FEBRUARY 16, 2010

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|--------------------|-------------|--------------------|-------------|
| 30 | 13.5 | 100 | 11.1 |
| 35 | 10.4 | 120 | 13.1 |
| 40 | 10.3 | 140 | 12.2 |
| 45 | 9.8 | 160 | 13.6 |
| 50 | 10.6 | 180 | 15.9 |
| 60 | 9.5 | 200 | 16.4 |
| 70 | 8.4 | 250 | 15.1 |
| 80 | 5.5 | 275 | 17.7 |
| 90 | 7.3 | 300 | 19.5 |



COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JUNE 15, 2009

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|--------------------|-------------|--------------------|-------------|
| 300 | 14.2 | 700 | 20.1 |
| 400 | 15.9 | 800 | 21.2 |
| 500 | 17.1 | 900 | 21.3 |
| 600 | 18.8 | 1000 | 22.3 |

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: JUNE 27, 2008

| FREQUENCY | FACTOR | FREQUENCY | FACTOR |
|-----------|--------|-----------|---------------|
| (GHz) | (dB) | (GHz) | (dB) |
| 1.0 | 24.5 | 10.0 | 39.4 |
| 1.5 | 25.4 | 10.5 | 39.7 |
| 2.0 | 28.3 | 11.0 | 39.0 |
| 2.5 | 28.9 | 11.5 | 40.0 |
| 3.0 | 29.7 | 12.0 | 39.7 |
| 3.5 | 30.8 | 12.5 | 41.7 |
| 4.0 | 31.4 | 13.0 | 42.7 |
| 4.5 | 32.6 | 13.5 | 41.2 |
| 5.0 | 33.7 | 14.0 | 41.6 |
| 5.5 | 34.4 | 14.5 | 43.2 |
| 6.0 | 34.7 | 15.0 | 42.3 |
| 6.5 | 35.4 | 15.5 | 39.3 |
| 7.0 | 37.0 | 16.0 | 41.7 |
| 7.5 | 37.4 | 16.5 | 39.6 |
| 8.0 | 37.6 | 17.0 | 43.0 |
| 8.5 | 37.6 | 17.5 | 47.1 |
| 9.0 | 38.5 | 18.0 | 46.2 |
| 9.5 | 38.6 | | |



COM-POWER PA-102

PREAMPLIFIER

S/N: 1017

CALIBRATION DATE: JANUARY 6, 2010

| FREQUENCY | FACTOR | FREQUENCY | FACTOR |
|-----------|---------------|-----------|--------|
| (MHz) | (dB) | (MHz) | (dB) |
| 20 | 38.0 | 300 | 38.2 |
| 30 | 38.3 | 350 | 38.1 |
| 40 | 38.4 | 400 | 38.5 |
| 50 | 38.2 | 450 | 38.0 |
| 60 | 38.2 | 500 | 37.9 |
| 70 | 38.3 | 550 | 38.2 |
| 80 | 38.1 | 600 | 38.2 |
| 90 | 38.2 | 650 | 37.7 |
| 100 | 38.3 | 700 | 38.3 |
| 125 | 38.2 | 750 | 38.3 |
| 150 | 38.3 | 800 | 37.4 |
| 175 | 38.3 | 850 | 37.5 |
| 200 | 38.1 | 900 | 37.6 |
| 225 | 38.2 | 950 | 37.4 |
| 250 | 38.3 | 1000 | 37.3 |
| 275 | 38.2 | | |

COM-POWER PA-122

PREAMPLIFIER

S/N: 181921

CALIBRATION DATE: MARCH 10, 2010

| FREQUENCY | FACTOR | FREQUENCY | FACTOR |
|-----------|--------|-----------|--------|
| (GHz) | (dB) | (GHz) | (dB) |
| 1.0 | 35.53 | 10.0 | 34.78 |
| 1.5 | 34.92 | 10.5 | 34.36 |
| 2.0 | 34.63 | 11.0 | 33.14 |
| 2.5 | 34.42 | 11.5 | 34.42 |
| 3.0 | 34.40 | 12.0 | 34.24 |
| 3.5 | 34.36 | 12.5 | 34.95 |
| 4.0 | 34.11 | 13.0 | 34.62 |
| 4.5 | 33.61 | 13.5 | 35.24 |
| 5.0 | 33.83 | 14.0 | 35.40 |
| 5.5 | 34.53 | 14.5 | 36.66 |
| 6.0 | 35.09 | 15.0 | 35.98 |
| 6.5 | 35.58 | 15.5 | 35.94 |
| 7.0 | 36.50 | 16.0 | 35.80 |
| 7.5 | 34.83 | 16.5 | 34.98 |
| 8.0 | 34.08 | 17.0 | 35.00 |
| 8.5 | 33.57 | 17.5 | 34.25 |
| 9.0 | 34.68 | 18.0 | 33.51 |
| 9.5 | 35.84 | 18.5 | 32.88 |

COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: SEPTEMBER 29, 2008

| FREQUENCY | MAGNETIC | ELECTRIC |
|-----------|----------|----------|
| (MHz) | (dB/m) | (dB/m) |
| 0.009 | -41.57 | 9.93 |
| 0.01 | -42.06 | 9.44 |
| 0.02 | -42.43 | 9.07 |
| 0.05 | -42.50 | 9.00 |
| 0.07 | -42.10 | 9.40 |
| 0.1 | -42.03 | 9.47 |
| 0.2 | -44.50 | 7.00 |
| 0.3 | -41.93 | 9.57 |
| 0.5 | -41.90 | 9.60 |
| 0.7 | -41.73 | 9.77 |
| 1 | -41.23 | 10.27 |
| 2 | -40.90 | 10.60 |
| 3 | -41.20 | 10.30 |
| 4 | -41.30 | 10.20 |
| 5 | -40.70 | 10.80 |
| 10 | -41.10 | 10.40 |
| 15 | -42.17 | 9.33 |
| 20 | -42.00 | 9.50 |
| 25 | -42.20 | 9.30 |
| 30 | -43.10 | 8.40 |





FRONT VIEW

SEALED UNIT PARTS COMPANY, INC. TEMPERATURE ALARM BASE UNIT WITH WIRELESS TRANSMITTER **MODEL: TA44T** FCC SUBPART B AND C - RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Model: TA44T



REAR VIEW

SEALED UNIT PARTS COMPANY, INC.
TEMPERATURE ALARM BASE UNIT WITH WIRELESS TRANSMITTER
MODEL: TA44T
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Model: TA44T



FRONT VIEW

SEALED UNIT PARTS COMPANY, INC.
TEMPERATURE ALARM BASE UNIT WITH WIRELESS TRANSMITTER
MODEL: TA44T
FCC SUBPART B AND C – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS





REAR VIEW

SEALED UNIT PARTS COMPANY, INC. TEMPERATURE ALARM BASE UNIT WITH WIRELESS TRANSMITTER MODEL: TA44T FCC SUBPART B AND C - CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

RADIATED EMISISONS



Sealed Unit Parts Company, Inc. Date: 03/15/10

Temperature Alarm Base Unit with Wireless Transmitter Lab: B

Model: TA44T Tested By: Kyle Fujimoto

X-Axis - Duty Cycle: 44.574%

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|----------------|-----------------|-----------|--------|--------|-----------------------|-----------------------|-------------------------|----------|
| 418 | 86.01 | V | 100.28 | -14.27 | Peak | 1.35 | 90 | |
| 418 | 79.01 | V | 80.28 | -1.27 | Avg | 1.35 | 90 | |
| | | | | | | | | |
| 836 | 36.36 | V | 80.28 | -43.92 | Peak | 1.35 | 150 | |
| 836 | 29.36 | V | 60.28 | -30.92 | Avg | 1.35 | 150 | |
| | | | 7 | | | | | |
| 1254 | 38.64 | V | 74 | -35.36 | Peak | 1.35 | 225 | |
| 1254 | 31.64 | V | 54 | -22.36 | Avg | 1.35 | 225 | |
| | | | | | | | | |
| 1672 | 40.74 | V | 74 | -33.26 | Peak | 1.36 | 250 | |
| 1672 | 33.74 | V | 54 | -20.26 | Avg | 1.36 | 250 | |
| | | | | | | | | |
| 2090 | 40.34 | V | 80.28 | -39.94 | Peak | 1.58 | 225 | |
| 2090 | 33.34 | V | 60.28 | -26.94 | Avg | 1.58 | 225 | |
| | | | | | | | | |
| 2508 | 39.54 | V | 80.28 | -40.74 | Peak | 1.69 | 135 | |
| 2508 | 32.54 | V | 60.28 | -27.74 | Avg | 1.69 | 135 | |
| | | | | | | | | |
| 2926 | 40.01 | V | 80.28 | -40.27 | Peak | 1.58 | 150 | |
| 2926 | 33.01 | V | 60.28 | -27.27 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 3344 | 38.81 | V | 80.28 | -41.47 | Peak | 1.58 | 150 | |
| 3344 | 31.81 | V | 60.28 | -28.47 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 3762 | 38.81 | V | 74 | -35.19 | Peak | 1.25 | 175 | |
| 3762 | 31.81 | V | 54 | -22.19 | Avg | 1.25 | 175 | |
| | | | | | | | | |
| 4180 | 40.17 | V | 74 | -33.83 | Peak | 1.35 | 150 | |
| 4180 | 33.17 | V | 54 | -20.83 | Avg | 1.35 | 150 | |
| | | | | | | | | |



Sealed Unit Parts Company, Inc. Date: 03/15/10

Temperature Alarm Base Unit with Wireless Transmitter Lab: B

Model: TA44T Tested By: Kyle Fujimoto

X-Axis - Duty Cycle: 44.574%

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|----------------|-----------------|-----------|--------|--------|-----------------------|-----------------------|-------------------------|----------|
| 418 | 86 | Н | 100.28 | -14.28 | Peak | 1.35 | 90 | |
| 418 | 79 | Н | 80.28 | -1.28 | Avg | 1.35 | 90 | |
| | | | | | | | | |
| 836 | 43.46 | Н | 80.28 | -36.82 | Peak | 1.35 | 150 | |
| 836 | 36.46 | Н | 60.28 | -23.82 | Avg | 1.35 | 150 | |
| | | | 7 | | | | | |
| 1254 | 40.07 | Н | 74 | -33.93 | Peak | 1.35 | 225 | |
| 1254 | 33.07 | Н | 54 | -20.93 | Avg | 1.35 | 225 | |
| | | | | | | | | |
| 1672 | 39.18 | Н | 74 | -34.82 | Peak | 1.36 | 250 | |
| 1672 | 32.18 | Н | 54 | -21.82 | Avg | 1.36 | 250 | |
| | | | | | | | | |
| 2090 | 41.04 | Н | 80.28 | -39.24 | Peak | 1.58 | 225 | |
| 2090 | 34.04 | Н | 60.28 | -26.24 | Avg | 1.58 | 225 | |
| | | | | | | | | |
| 2508 | 39.84 | Н | 80.28 | -40.44 | Peak | 1.69 | 135 | |
| 2508 | 32.84 | Н | 60.28 | -27.44 | Avg | 1.69 | 135 | |
| | | | | | | | | |
| 2926 | 41.04 | Н | 80.28 | -39.24 | Peak | 1.58 | 150 | |
| 2926 | 34.04 | Н | 60.28 | -26.24 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 3344 | 39.55 | Н | 80.28 | -40.73 | Peak | 1.58 | 150 | |
| 3344 | 32.55 | Н | 60.28 | -27.73 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 3762 | 39.21 | Н | 74 | -34.79 | Peak | 1.25 | 175 | |
| 3762 | 32.21 | Н | 54 | -21.79 | Avg | 1.25 | 175 | |
| | | | | | | | | |
| 4180 | 40.24 | Н | 74 | -33.76 | Peak | 1.35 | 150 | |
| 4180 | 33.24 | Н | 54 | -20.76 | Avg | 1.35 | 150 | |
| | | | | | | | | |



Sealed Unit Parts Company, Inc.

Date: 03/15/10
Temperature Alarm Base Unit with Wireless Transmitter

Lab: B

Model: TA44T Tested By: Kyle Fujimoto

Y-Axis - Duty Cycle: 44.574%

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|----------------|-----------------|-----------|--------|--------|-----------------------|-----------------------|-------------------------|----------|
| 418 | 86 | V | 100.28 | -14.28 | Peak | 1.35 | 90 | |
| 418 | 79 | V | 80.28 | -1.28 | Avg | 1.35 | 90 | |
| | | | | | | | | |
| 836 | 43.96 | V | 80.28 | -36.32 | Peak | 1.25 | 90 | |
| 836 | 36.96 | V | 60.28 | -23.32 | Avg | 1.25 | 90 | |
| | | | 1 | | | | | |
| 1254 | 41.21 | V | 74 | -32.79 | Peak | 1.35 | 150 | |
| 1254 | 34.21 | V | 54 | -19.79 | Avg | 1.35 | 150 | |
| | | | | | | | | |
| 1672 | 40.06 | V | 74 | -33.94 | Peak | 1.58 | 150 | |
| 1672 | 33.06 | V | 54 | -20.94 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 2090 | 39.44 | V | 80.28 | -40.84 | Peak | 1.58 | 165 | |
| 2090 | 32.44 | V | 60.28 | -27.84 | Avg | 1.58 | 165 | |
| | | | | | | | | |
| 2508 | 39.91 | V | 80.28 | -40.37 | Peak | 1.58 | 150 | |
| 2508 | 32.91 | V | 60.28 | -27.37 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 2926 | 39.36 | V | 80.28 | -40.92 | Peak | 1.95 | 150 | |
| 2926 | 32.36 | V | 60.28 | -27.92 | Avg | 1.95 | 150 | |
| | | | | | | | | |
| 3344 | 40.17 | V | 80.28 | -40.11 | Peak | 1.25 | 150 | |
| 3344 | 33.17 | V | 60.28 | -27.11 | Avg | 1.25 | 150 | |
| | | | | | | | | |
| 3762 | 40.61 | V | 74 | -33.39 | Peak | 1.58 | 150 | |
| 3762 | 33.61 | V | 54 | -20.39 | Avg | 1.58 | 150 | _ |
| | | | | | | | | |
| 4180 | 38.25 | V | 74 | -35.75 | Peak | 1.35 | 150 | |
| 4180 | 31.25 | V | 54 | -22.75 | Avg | 135 | 150 | |
| | | | | | | | | |



Sealed Unit Parts Company, Inc. Date: 03/15/10

Temperature Alarm Base Unit with Wireless Transmitter Lab: B

Model: TA44T Tested By: Kyle Fujimoto

Y-Axis - Duty Cycle: 44.574%

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|----------------|-----------------|-----------|--------|--------|-----------------------|-----------------------|-------------------------|----------|
| 418 | 79.4 | Н | 100.28 | -20.88 | Peak | 1.35 | 90 | |
| 418 | 72.4 | Н | 80.28 | -7.88 | Avg | 1.35 | 90 | |
| | | | | | | | | |
| 836 | 36.16 | Н | 80.28 | -44.12 | Peak | 1.25 | 90 | |
| 836 | 29.16 | Н | 60.28 | -31.12 | Avg | 1.25 | 90 | |
| | | | 1 | | | | | |
| 1254 | 39.66 | Н | 74 | -34.34 | Peak | 1.35 | 150 | |
| 1254 | 32.66 | Н | 54 | -21.34 | Avg | 1.35 | 150 | |
| | | | | | | | | |
| 1672 | 39.76 | Н | 74 | -34.24 | Peak | 1.58 | 150 | |
| 1672 | 32.76 | Н | 54 | -21.24 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 2090 | 42.86 | Н | 80.28 | -37.42 | Peak | 1.58 | 165 | |
| 2090 | 35.86 | Н | 60.28 | -24.42 | Avg | 1.58 | 165 | |
| | | | | | | | | |
| 2508 | 40.56 | Н | 80.28 | -39.72 | Peak | 1.58 | 150 | |
| 2508 | 33.56 | Н | 60.28 | -26.72 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 2926 | 37.98 | Н | 80.28 | -42.3 | Peak | 1.95 | 150 | |
| 2926 | 30.98 | Н | 60.28 | -29.3 | Avg | 1.95 | 150 | |
| | | | | | | | | |
| 3344 | 39.41 | Н | 80.28 | -40.87 | Peak | 1.25 | 150 | |
| 3344 | 32.41 | Н | 60.28 | -27.87 | Avg | 1.25 | 150 | |
| | | | | | | | | |
| 3762 | 39.81 | Н | 74 | -34.19 | Peak | 1.58 | 150 | |
| 3762 | 32.81 | Н | 54 | -21.19 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 4180 | 39.24 | Н | 74 | -34.76 | Peak | 1.35 | 150 | |
| 4180 | 32.24 | Н | 54 | -21.76 | Avg | 135 | 150 | |
| | | | | | | | | |



FCC Class B

Sealed Unit Parts Company, Inc. Date: 03/15/10

Temperature Alarm Base Unit with Wireless Transmitter Lab: B

Model: TA44T Tested By: Kyle Fujimoto

X-Axis (Worst Case) - Duty Cycle: 44.574% - Spurious Emissions 10 kHz to 4.18 GHz

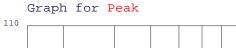
| Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|-----------------|------------------------|-----------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29.07 | Н | 46 | -16.93 | Peak | 1.35 | 90 | Restricted Band to left of |
| | | | | | | | 410 MHz |
| | | | | | | | |
| 23.68 | V | 46 | -22.32 | Peak | 1.35 | 90 | Restricted Band to left of |
| | | | | | | | 410 MHz |
| | | - 7 | | | | | |
| | | | | | | | There were no other |
| | | | | | | | emissions detected from |
| | | | | | | | the EUT in both Vertical |
| | | | | | | | and Horizontal Polarizations. |
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| | | | | | | | |
| | (dBuV) 29.07 | (dBuV) Pol (v/h) 29.07 H | (dBuV) Pol (v/h) Limit 29.07 H 46 | (dBuV) Pol (v/h) Limit Margin 29.07 H 46 -16.93 | Level (dBuV) Pol (v/h) Limit Margin QP / Avg 29.07 H 46 -16.93 Peak | Level (dBuV) Pol (v/h) Limit Margin QP / Avg Height (m) 29.07 H 46 -16.93 Peak 1.35 | Level (dBuV) Pol (v/h) Limit Margin QP / Avg Height (deg) Angle (deg) 29.07 H 46 -16.93 Peak 1.35 90 |

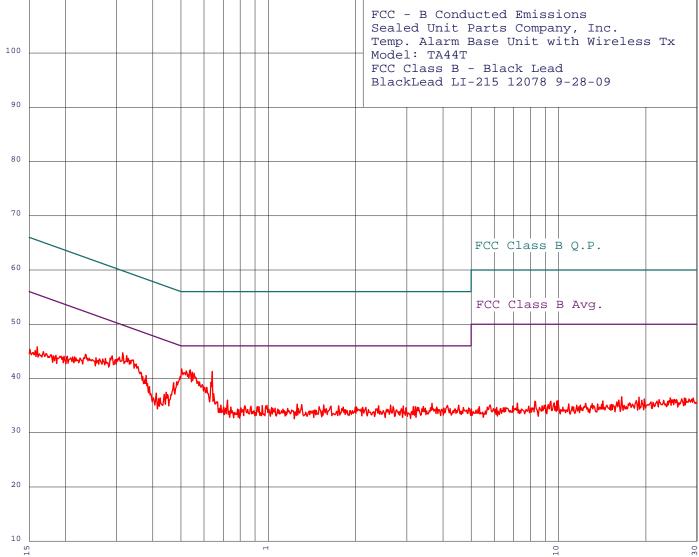
CONDUCTED EMISSIONS

3/15/2010

14:07:29

EMISSION LEVEL [dBuV] PEAK





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

Brea, CA 92823 114 Olinda Drive

Brea Division

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

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

Agoura Division

Silverado Division

[dBuV]

AMPLITUDE

(714) 579-0500

FREQUENCY [MHz]

FCC Part 15 Subpart B and FCC Section 15.231 Test Report Temperature Alarm Base Unit with Wireless Transmitter

Model: TA44T

Report Number: B00315D1

FCC - B Conducted Emissions

Sealed Unit Parts Company, Inc.

Temperature Alarm Base Unit with Wireless Transmitter

Model: TA44T

FCC Class B - Black Lead

BlackLead LI-215 12078 9-28-09 TEST ENGINEER: Kyle Fujimoto

| | | | | | _ | |
|----------|-------------------------|----------------|-------------------------------|----------------|-------|------|
| | hest peaks riteria : | | .00 dB of FCC Curve : Peak | | limit | line |
| Peak# | Freq(MHz) | | | Delta(dB) | | |
| 1 | 0.502 | 41.77 | 46.00 | -4.23 | | |
| 2 | 0.538 | 41.57 | 46.00 | -4.43 | | |
| 3 | 0.641 | 41.28 | 46.00 | -4.72 | | |
| 4 | 0.547 | 41.17 | 46.00 | -4.83 | | |
| 5 | 0.555 | 40.97 | 46.00 | -5.03 | | |
| 6 | 0.315 | 44.73 | 49.84 | -5.11 | | |
| 7 | 0.325 | 44.21 | 49.57 | -5.36 | | |
| 8 | 0.290 | 44.17 | 50.54 | -6.37 | | |
| 9 | 0.471 | 39.21 | 46.49 | -7.28 | | |
| 10 | 0.275 | 43.69 | 50.98 | -7.29 | | |
| 11 | 0.614 | 38.37 | 46.00 | -7.63 | | |
| 12 | 0.379 | 40.54 | 48.29 | -7.76 | | |
| 13 | 0.255 | 43.81 | 51.60 | -7.78 | | |
| 14 | 0.234 | 44.44 | 52.30 | -7.85 | | |
| 15 | 0.648 | 37.18 | 46.00 | -8.82 | | |
| 16 | 0.215 | 43.97 | 53.00 | -9.03 | | |
| 17 | 0.212 | 43.98 | 53.14 | -9.16 | | |
| 18 | 0.203 | 44.09 | 53.49 | -9.40 | | |
| 19 | 0.445 | 37.45 | 46.98 | -9.53 | | |
| 20 | 0.389 | 38.52 | 48.08 | -9.55 | | |
| 21 | 0.198 | 44.09 | 53.71 | -9.62 | | |
| 22 | 0.160 | 45.83 | 55.47 | -9.64 | | |
| 23 | 0.194 | 44.08 44.27 | 53.88 | -9.80 | | |
| 24 25 | 0.185 0.724 | 36.01 | 54.24 46.00 | -9.97 -9.99 | | |
| 26 | 0.438 | 37.06 | 47.11 | -10.05 | | |
| 27 | 0.168 | 44.94 | 55.07 | -10.13 | | |
| 28 | 0.411 | 37.29 | 47.63 | -10.13 | | |
| 29 | 3.663 | 35.42 | 46.00 | -10.58 | | |
| 30 | 1.256 | 35.27 | 46.00 | -10.73 | | |
| 31 | 1.304 | 35.17 | 46.00 | -10.83 | | |
| 32 | 1.552 | 35.11 | 46.00 | -10.89 | | |
| 33 | 0.686 | 35.10 | 46.00 | -10.90 | | |
| 34 | 2.637 | 35.09 | 46.00 | -10.91 | | |
| 35 | 4.528 | 35.05 | 46.00 | -10.95 | | |
| 36 | 4.137 | 35.04 | 46.00 | -10.96 | | |
| 37 | 0.990 | 35.03 | 46.00 | -10.97 | | |
| 38 | 0.953 | 35.01 | 46.00 | -10.99 | | |
| 39 | 0.424 | 36.37 | 47.37 | -11.00 | | |
| 40 | 2.397 | 34.98 | 46.00 | -11.02 | | |
| 41 | 0.831 | 34.96 | 46.00 | -11.04 | | |
| 42 | 1.745 | 34.93 | 46.00 | -11.07 | | |
| 43 | 1.646 | 34.92 | 46.00 | -11.08 | | |
| 44 | 2.916 | 34.90 | 46.00 | -11.10 | | |
| 45 | 0.872 | 34.88 | 46.00 | -11.12 | | |
| 46 | 0.419 | 36.28 | 47.46 | -11.18 | | |
| 47 | 3.419 | 34.81 | 46.00 | -11.19 | | |
| 48 | 3.209 | 34.81 | 46.00 | -11.19 | | |
| | | | | | | |

EMISSION LEVEL [dBuV] PEAK 3/15/2010 14:13:18 Graph for Peak

Brea, CA 92823 114 Olinda Drive

Brea Division

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

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

Lake Forest, CA 92630

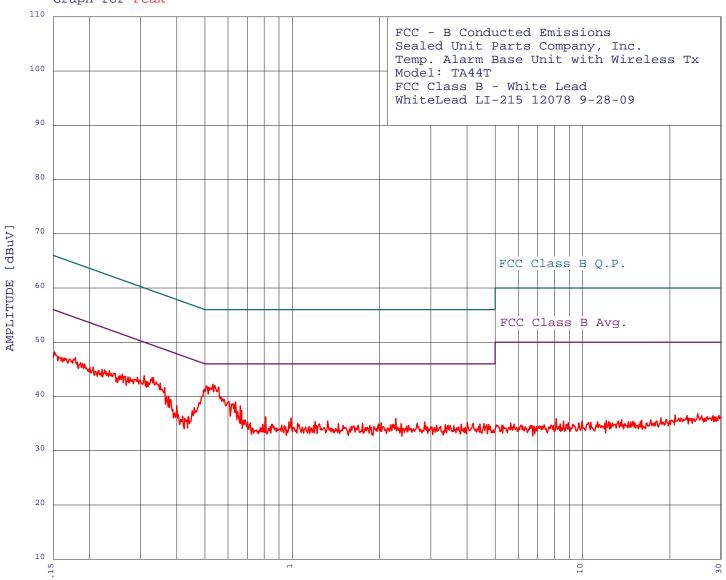
(949) 587-0400

Lake Forest Division 20621 Pascal Way

Agoura Division

Silverado Division

(714) 579-0500



FREQUENCY [MHz]

FCC Part 15 Subpart B and FCC Section 15.231 Test Report Temperature Alarm Base Unit with Wireless Transmitter

Model: TA44T

Report Number: B00315D1

FCC - B Conducted Emissions

Sealed Unit Parts Company, Inc.

Temperature Alarm Base Unit with Wireless Transmitter

Model: TA44T

FCC Class B - White Lead

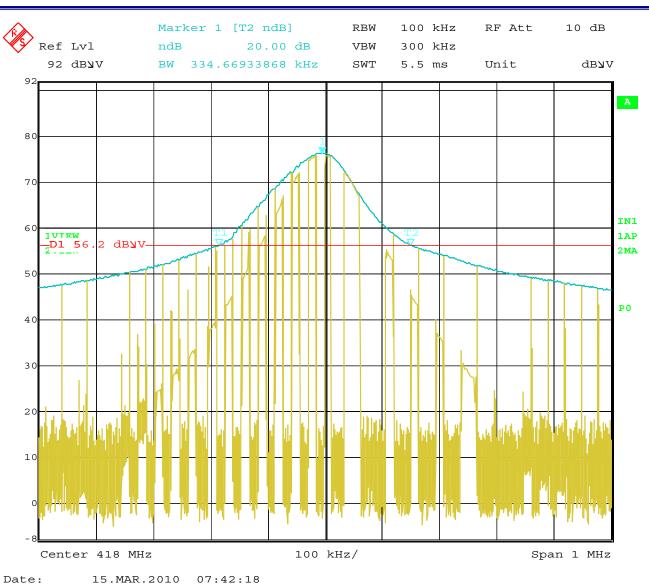
WhiteLead LI-215 12078 9-28-09 TEST ENGINEER: Kyle Fujimoto

| 49 hig | hest peaks | above -50 | .00 dB of FCC | Class B Avg. | - limit | line |
|----------|----------------|----------------|----------------|------------------|------------|------|
| | riteria : | | Curve : Peak | | | |
| Peak# | Freq(MHz) | Amp(dBuV | | Delta(dB) | | |
| 1 | 0.532 | 42.23 | 46.00 | -3.77 | | |
| 2 | 0.541 | 42.03 | 46.00 | -3.97 | | |
| 3 | 0.508 | 41.92 | 46.00 | -4.08 | | |
| 4 | 0.329 | 43.48 | 49.48 | -6.00 | | |
| 5 6 | 0.309 | 43.83 | 50.01 | -6.18 | | |
| 7 | 0.350 0.293 | 42.46 | 48.95 50.45 | -6.49 -6.92 | | |
| 8 | 0.637 | 43.53 38.97 | 46.00 | -0.92 -7.03 | | |
| 9 | 0.624 | 38.67 | 46.00 | -7.03 -7.33 | | |
| 10 | 0.179 | 47.16 | 54.54 | -7.38 | | |
| 11 | 0.259 | 44.08 | 51.47 | -7.38 | | |
| 12 | 0.272 | 43.64 | 51.07 | -7.43 | | |
| 13 | 0.234 | 44.76 | 52.30 | -7.54 | | |
| 14 | 0.265 | 43.67 | 51.29 | -7.61 | | |
| 15 | 0.226 | 44.92 | 52.61 | -7.69 | | |
| 16 | 0.662 | 38.28 | 46.00 | -7.72 | | |
| 17 | 0.221 | 45.01 | 52.78 | -7.77 | | |
| 18 | 0.186 | 46.24 | 54.19 | -7.95 | | |
| 19 | 0.206 | 45.40 | 53.35 | -7.96 | | |
| 20 | 0.215 | 44.83 | 53.00 | -8.18 | | |
| 21 | 0.375 | 40.04 | 48.38 | -8.35 | | |
| 22 | 0.369 | 40.04 | 48.52 | -8.48 | | |
| 23 | 0.669 | 37.39 | 46.00 | -8.61 | | |
| 24 | 0.459 | 37.95 | 46.71 | -8.76 | | |
| 25 26 | 0.381 | 39.43 | 48.25 | -8.82 | | |
| 20 27 | 0.648 0.400 | 37.18 38.31 | 46.00 47.86 | -8.82 -9.54 | | |
| 28 | 0.809 | 36.25 | 46.00 | -9.75 | | |
| 29 | 0.990 | 36.02 | 46.00 | -9.98 | | |
| 30 | 2.274 | 35.96 | 46.00 | -10.04 | | |
| 31 | 0.686 | 35.69 | 46.00 | -10.31 | | |
| 32 | 1.325 | 35.47 | 46.00 | -10.53 | | |
| 33 | 1.197 | 35.35 | 46.00 | -10.65 | | |
| 34 | 0.974 | 35.32 | 46.00 | -10.68 | | |
| 35 | 2.855 | 35.27 | 46.00 | -10.73 | | |
| 36 | 4.008 | 35.20 | 46.00 | -10.80 | | |
| 37 | 0.438 | 36.28 | 47.11 | -10.83 | | |
| 38 | 2.023 | 35.15 | 46.00 | -10.85 | | |
| 39 | 0.716 | 35.11 | 46.00 | -10.89 | | |
| 40 | 2.693 | 35.07 | 46.00 | -10.93 | | |
| 41 | 1.043 | 35.03 | 46.00 | -10.97 | | |
| 42 | 1.745 | 35.02 | 46.00 | -10.98 | | |
| 43 | 4.576 | 35.01 | 46.00 | -10.99 | | |
| 44 45 | 4.204 | 35.00 | 46.00 | -11.00 | | |
| 45 46 | 1.441 2.371 | 34.98 34.96 | 46.00 46.00 | -11.02 -11.04 | | |
| 47 | 1.236 | 34.96 | 46.00 | -11.04 | | |
| 48 | 1.981 | 34.95 | 46.00 | -11.04 | | |
| 49 | 0.419 | 36.39 | 47.46 | -11.07 | | |
| | | | | | | |

-20 dB BANDWIDTH

Model: TA44T

Report Number: B00315D1

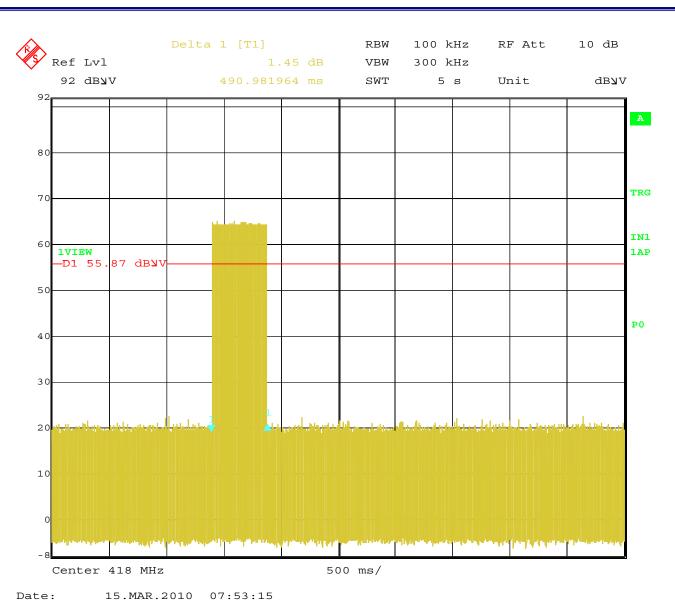


Bandwidth 20 dB of the Fundamental

TRANSMISSION TEST

Model: TA44T

Report Number: B00315D1



Time of One Transmission = 490.981964 ms. This transmission only occurs once.