

*FCC PART 15, SUBPART B and C  
TEST REPORT**for***TEXTBLADE****MODEL: TEX20**

Prepared for

**WAYTOOLS, LLC.  
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(714) 579-0500****DATE: MARCH 25, 2015**

|       | REPORT<br>BODY | APPENDICES |          |          |          |          | TOTAL     |
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## GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., 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: TextBlade  
Model: TEX20  
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Customer: WayTools, LLC.  
401 Wilshire Boulevard, 9<sup>th</sup> Floor  
Santa Monica California, 90401

Test Dates: March 11 and 25, 2015

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.

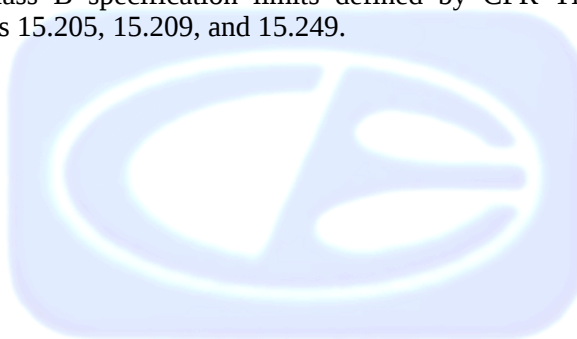
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**SUMMARY OF TEST RESULTS**

| <b>TEST</b> | <b>DESCRIPTION</b>                                                                          | <b>RESULTS</b>                                                                                                                                                          |
|-------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | Spurious Radiated RF Emissions,<br>10 kHz – 25,000 MHz<br>(Transmitter and Digital portion) | Complies with the <b>Class B</b> limits of CFR Title 47,<br>Part 15 Subpart B; and the limits of CFR Title 47,<br>Part 15, Subpart C, section 15.205, 15.209 and 15.249 |
| 2           | Conducted RF Emissions,<br>150 kHz to 30 MHz                                                | Complies with the <b>Class B</b> limits of CFR Title 47,<br>Part 15 Subpart B                                                                                           |

## 1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the TextBlade, Model: TEX20. 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; and Subpart C, sections 15.205, 15.209, and 15.249.



## 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 92823.

### 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

WayTools, LLC.

Doug Logan

Software Engineer

Compatible Electronics Inc.

Kyle Fujimoto

Test Engineer

Kenneth Lee

Test Technician

### 2.4 Date Test Sample was Received

The test sample was received prior to the initial test date.

### 2.5 Disposition of the Test Sample

The test sample was returned to WayTools, LLC. on March 25, 2015.

### 2.6 Abbreviations and Acronyms

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

|      |                                      |
|------|--------------------------------------|
| RF   | Radio Frequency                      |
| EMI  | Electromagnetic Interference         |
| EUT  | Equipment Under Test                 |
| P/N  | Part Number                          |
| S/N  | Serial Number                        |
| HP   | Hewlett Packard                      |
| ITE  | Information Technology Equipment     |
| CML  | Corrected Meter Limit                |
| LISN | Line Impedance Stabilization Network |
| N/A  | Not Applicable                       |
| BLE  | Bluetooth Low Energy                 |
| USB  | Universal Serial Bus                 |

### 3. APPLICABLE DOCUMENTS

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

| SPEC                                  | TITLE                                                                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| FCC Title 47,<br>Part 15<br>Subpart C | FCC Rules - Radio frequency devices (including digital devices) –<br>Intentional Radiators                                              |
| FCC Title 47,<br>Part 15<br>Subpart B | FCC Rules - Radio frequency devices (including digital devices) –<br>Unintentional Radiators                                            |
| ANSI C63.4<br>2009                    | Methods of measurement of radio-noise emissions from low-voltage<br>electrical and electronic equipment in the range of 9 kHz to 40 GHz |
| EN 50147-2:<br>1997                   | Anechoic chambers. Alternative test site suitability with respect to site<br>attenuation                                                |
| CISPR 22:<br>2008                     | Information technology equipment – Radio disturbance characteristics –<br>Limits and methods of measurement                             |

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

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

The TextBlade, Model: TEX20 (EUT) is a BLE Keyboard that is powered by an internal battery.

In normal mode, the EUT was tested for emissions at the low, middle, and high channels, the EUT was continuously transmitting. The EUT was a stand-alone device.

In charging mode, the EUT was plugged into a laptop computer. The EUT was also tested while plugged into an AC to USB adaptor. The EUT does not transmit while in charging mode.

The final radiated data for the EUT as was taken in the mode described above. Please see Appendix E for the data sheets.

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

###### **Cable 1**

This is a 2.2 meter unshielded cable connecting the laptop computer to its AC adaptor. The cable was hardwired to the AC adaptor and had a single pin power connector on the laptop computer end.

###### **Cable 2**

This is a 1.9 meter foil shielded cable connecting the USB mouse to the laptop computer. The cable was hardwired to the USB mouse and has a type A USB connector on the laptop computer end.

## 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

### 5.1 EUT and Accessory List

| EQUIPMENT         | MANUFACTURER   | MODEL NUMBER | SERIAL NUMBER | FCC ID      |
|-------------------|----------------|--------------|---------------|-------------|
| TEXTBLADE (EUT)   | WAYTOOLS, LLC. | TEX20        | N/A           | 2AEAW-TEX20 |
| LAPTOP COMPUTER   | DELL           | PP22L        | N/A           | DoC         |
| AC ADAPTOR        | DELL           | FA65NS0-00   | N/A           | N/A         |
| USB MOUSE         | LOGITECH       | M-U0026      | N/A           | DoC         |
| USB POWER ADAPTOR | APPLE          | A1401        | 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        | December 4, 2014  | 1 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 – 26.5 GHz              | Agilent Technologies       | N9038A       | MY51100115    | March 6, 2014     | 2 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       | 551024        | March 6, 2015     | 1 Year     |
| Preamplifier                                | Com-Power                  | PA-840       | 711013        | May 13, 2014      | 2 Year     |
| Loop Antenna                                | Com-Power                  | AL-130       | 17089         | February 6, 2015  | 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        |

**Emissions test equipment (continued)**

| EQUIPMENT TYPE                       | MANU-FACTURER          | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE | CAL. CYCLE |
|--------------------------------------|------------------------|--------------|---------------|------------------|------------|
| GENERAL TEST EQUIPMENT USED IN LAB A |                        |              |               |                  |            |
| Shield Room Test                     | Compatible Electronics | 11CD         | N/A           | N/A              | N/A        |
| LISN                                 | Com-Power              | LI-215       | 12082         | June 12, 2014    | 1 Year     |
| LISN                                 | Com-Power              | LI-215       | 12090         | June 12, 2014    | 1 Year     |
| Transient Limiter                    | Com-Power              | 252A910      | 1             | October 10, 2014 | 1 Year     |
| Monitor                              | Hewlett Packard        | D5258A       | TW74500641    | N/A              | N/A        |
| Computer                             | Hewlett Packard        | 4530         | US91912319    | N/A              | N/A        |
| Spectrum Analyzer – Main Section     | Hewlett Packard        | 8566B        | 3638A08784    | May 20, 2014     | 1 Year     |
| Spectrum Analyzer – Display Section  | Hewlett Packard        | 85662A       | 2648A14530    | May 20, 2014     | 1 Year     |
| Quasi-Peak Adapter                   | Hewlett Packard        | 85650A       | 2811A01363    | May 20, 2014     | 1 Year     |

## **6. TEST SITE DESCRIPTION**

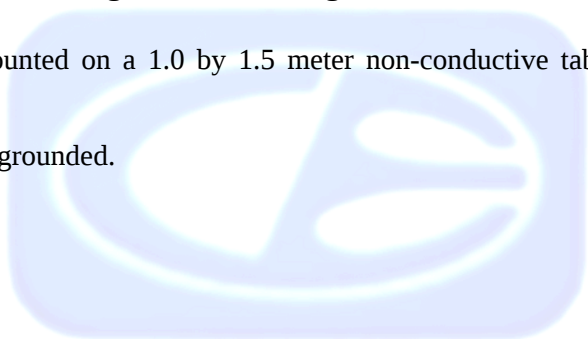
### **6.1 Test Facility Description**

Please refer to section 2.1 and 7.1 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.



## 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 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 Model: PA-118 was used for frequencies above 1 GHz and the PA 840 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 10 Hz and putting the sweep time on AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

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

| FREQUENCY RANGE  | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER   |
|------------------|---------------------------------|--------------|
| 1 GHz to 18 GHz  | 1 MHz                           | Horn Antenna |
| 18 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.

**Radiated Emissions (Spurious and Harmonics) Test -- Lab B (con't)**

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.

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 for radiated emissions. Please see Appendix E for the data sheets.

### 7.1.2 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 with 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 test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is set up according to ANSI C63.4, EN 50147-2 and CISPR 22. 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    |

#### 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 (d) for radiated emissions. Please see Appendix E for the data sheets.

### 7.1.3 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer 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 spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. 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 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.

The EUT was tested at 120 VAC. 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. Please see Appendix E for the data sheets.

## 7.1.4 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS  
TextBlade, Model: TEX20

| Frequency MHz   | QP Corrected Reading* dBuV | Specification Limit dBuV | Delta (Cor. Reading – Spec. Limit) dB |
|-----------------|----------------------------|--------------------------|---------------------------------------|
| 39.80 (H) (LC)  | 31.50                      | 40.00                    | -8.50                                 |
| 40.20 (H) (LC)  | 31.47                      | 40.00                    | -8.53                                 |
| 39.30 (V) (USB) | 31.41                      | 40.00                    | -8.59                                 |
| 38.10 (H) (USB) | 31.30                      | 40.00                    | -8.70                                 |
| 39.00 (H) (LC)  | 31.29                      | 40.00                    | -8.71                                 |
| 38.70 (H) (USB) | 31.27                      | 40.00                    | -8.73                                 |

Table 2.0 CONDUCTED EMISSION RESULTS  
TextBlade, Model: TEX20

| Frequency MHz    | Average Corrected Reading* dBuV | Average Specification Limit dBuV | Delta (Cor. Reading – Spec. Limit) dB |
|------------------|---------------------------------|----------------------------------|---------------------------------------|
| 0.530 (WL) (LC)  | 42.75                           | 46.00                            | -3.25                                 |
| 0.939 (BL) (USB) | 42.54                           | 46.00                            | -3.46                                 |
| 0.304 (BL) (LC)  | 46.49                           | 50.14                            | -3.66                                 |
| 0.352 (BL) (LC)  | 45.20                           | 48.91                            | -3.71                                 |
| 0.440 (WL) (LC)  | 43.23                           | 47.06                            | -3.83                                 |
| 0.974 (BL) (USB) | 42.14                           | 46.00                            | -3.86                                 |

### Notes:

- (H) Horizontal
- (V) Vertical
- (BL) Black Lead
- (WL) White Lead
- (QP) Quasi Peak
- (USB) Charging via USB adaptor
- (LC) Charging via laptop computer
- \* The complete emissions data is given in Appendix E of this report.

## 8. CONCLUSIONS

The TextBlade, Model: TEX20, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B and Subpart C, sections 15.205, 15.209, and 15.249.





**APPENDIX A**

***LABORATORY ACCREDITATIONS AND RECOGNITIONS***

---

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

**Agoura Division**  
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Agoura, CA 91301  
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**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

## LABORATORY ACCREDITATIONS AND RECOGNITIONS



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 fulfilment 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](#)

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FCC Listing, from FCC OET site

[FCC test lab search](#) <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  
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**APPENDIX B**

***MODIFICATIONS TO THE EUT***

## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.249 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.

The EUT was not modified during the testing.





**APPENDIX C**

***ADDITIONAL MODELS***

## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

TextBlade  
Model: TEX20  
S/N: N/A

There were no additional models covered under this report.



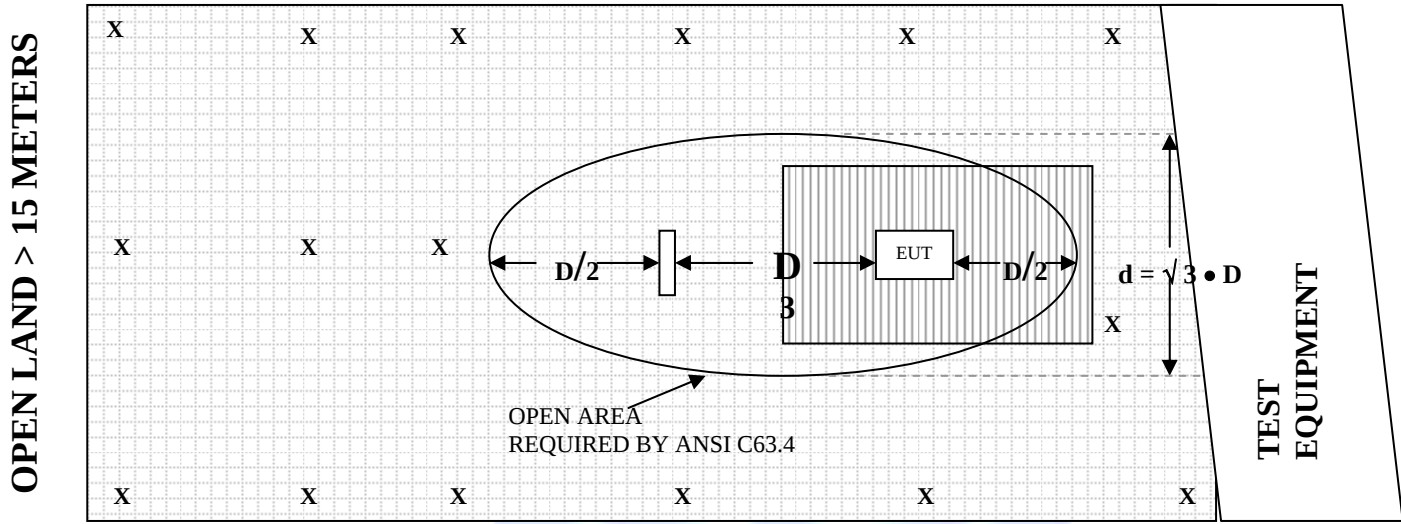


**APPENDIX D**

***DIAGRAMS AND CHARTS***

**FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE**

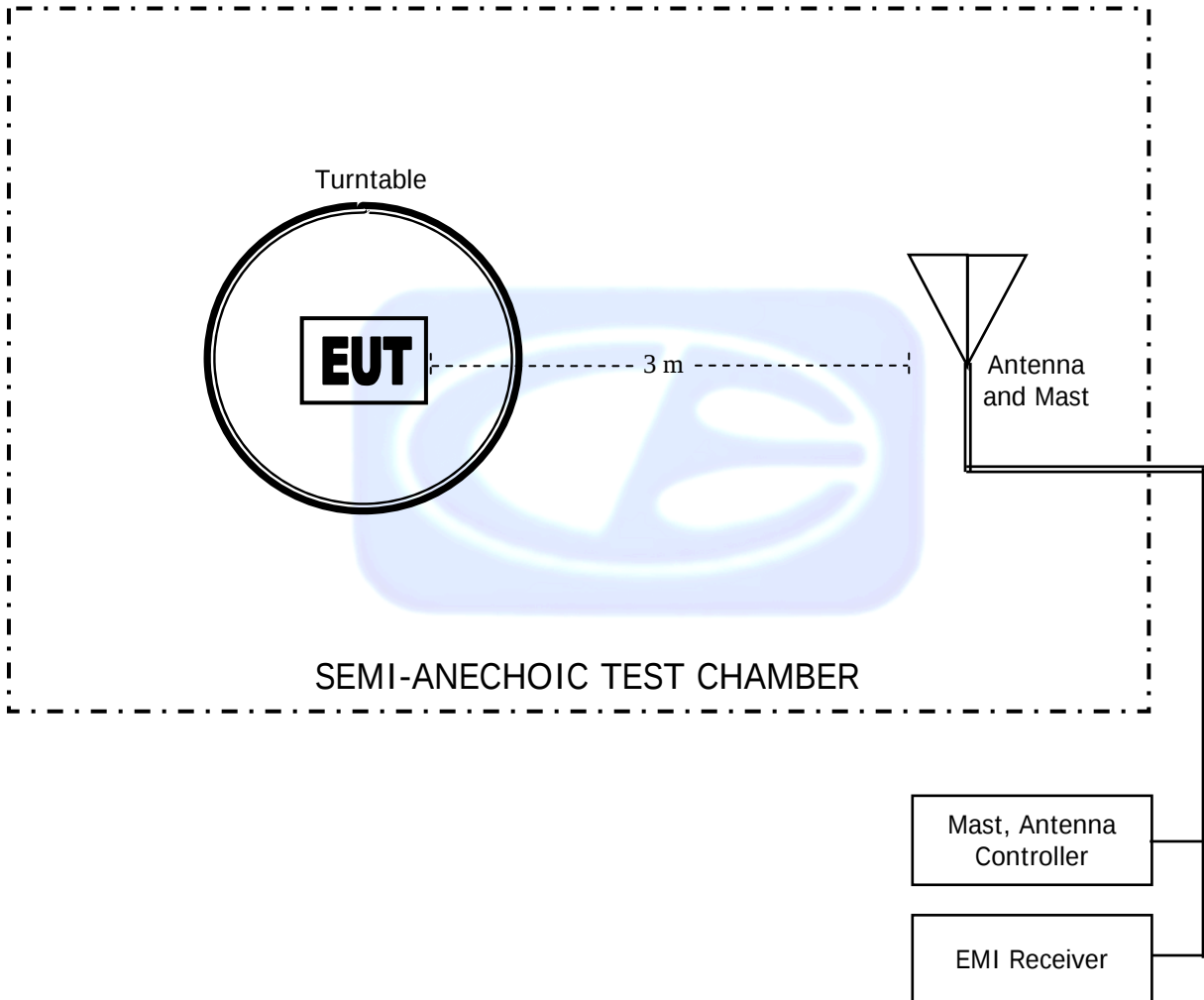
**OPEN LAND > 15 METERS**

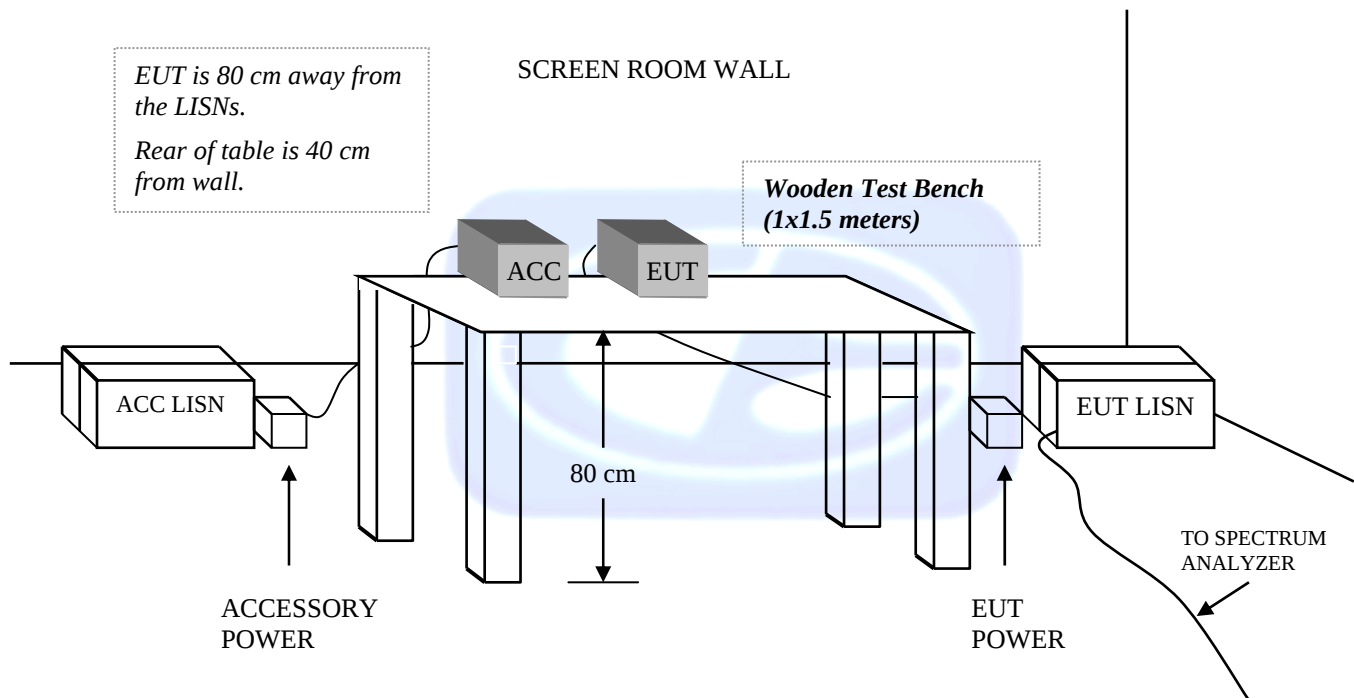


**OPEN LAND > 15 METERS**

|   |                          |                                                                                     |                 |
|---|--------------------------|-------------------------------------------------------------------------------------|-----------------|
| X | = GROUND RODS            |  | = GROUND SCREEN |
| D | = TEST DISTANCE (meters) |  | = WOOD COVER    |

**FIGURE 2: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER**



**FIGURE 3: CONDUCTED EMISSIONS TEST SETUP**

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

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -33.18                     | 18.32                      |
| 0.01                       | -34.10                     | 17.40                      |
| 0.02                       | -38.65                     | 12.85                      |
| 0.03                       | -39.28                     | 12.22                      |
| 0.04                       | -40.09                     | 11.41                      |
| 0.05                       | -40.85                     | 10.65                      |
| 0.06                       | -40.88                     | 10.62                      |
| 0.07                       | -41.07                     | 10.43                      |
| 0.08                       | -41.04                     | 10.46                      |
| 0.09                       | -41.19                     | 10.31                      |
| 0.1                        | -41.20                     | 10.30                      |
| 0.2                        | -41.52                     | 9.98                       |
| 0.3                        | -41.53                     | 9.97                       |
| 0.4                        | -41.42                     | 10.08                      |
| 0.5                        | -41.53                     | 9.97                       |
| 0.6                        | -41.53                     | 9.97                       |
| 0.7                        | -41.43                     | 10.07                      |
| 0.8                        | -41.23                     | 10.27                      |
| 0.9                        | -41.13                     | 10.37                      |
| 1                          | -41.14                     | 10.36                      |
| 2                          | -40.80                     | 10.70                      |
| 3                          | -40.66                     | 10.84                      |
| 4                          | -40.61                     | 10.89                      |
| 5                          | -40.33                     | 11.17                      |
| 6                          | -40.53                     | 10.97                      |
| 7                          | -40.47                     | 11.03                      |
| 8                          | -40.48                     | 11.02                      |
| 9                          | -39.93                     | 11.57                      |
| 10                         | -39.81                     | 11.69                      |
| 15                         | -43.35                     | 8.15                       |
| 20                         | -39.16                     | 12.34                      |
| 25                         | -40.24                     | 11.26                      |
| 30                         | -43.18                     | 8.32                       |

**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: 551024

CALIBRATION DATE: MARCH 6, 2015

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 39.76                  | 6.0                        | 38.77                  |
| 1.1                        | 40.46                  | 6.5                        | 38.46                  |
| 1.2                        | 40.05                  | 7.0                        | 38.27                  |
| 1.3                        | 40.58                  | 7.5                        | 38.77                  |
| 1.4                        | 39.50                  | 8.0                        | 39.25                  |
| 1.5                        | 39.92                  | 8.5                        | 38.63                  |
| 1.6                        | 40.40                  | 9.0                        | 39.58                  |
| 1.7                        | 40.10                  | 9.5                        | 42.12                  |
| 1.8                        | 40.49                  | 10.0                       | 38.53                  |
| 1.9                        | 38.86                  | 11.0                       | 40.21                  |
| 2.0                        | 41.53                  | 12.0                       | 41.15                  |
| 2.5                        | 41.05                  | 13.0                       | 40.51                  |
| 3.0                        | 40.29                  | 14.0                       | 40.32                  |
| 3.5                        | 40.82                  | 15.0                       | 39.47                  |
| 4.0                        | 40.88                  | 16.0                       | 39.88                  |
| 4.5                        | 41.37                  | 17.0                       | 39.79                  |
| 5.0                        | 40.73                  | 18.0                       | 40.61                  |
| 5.5                        | 39.05                  |                            |                        |

**COM-POWER AH-826****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                   |

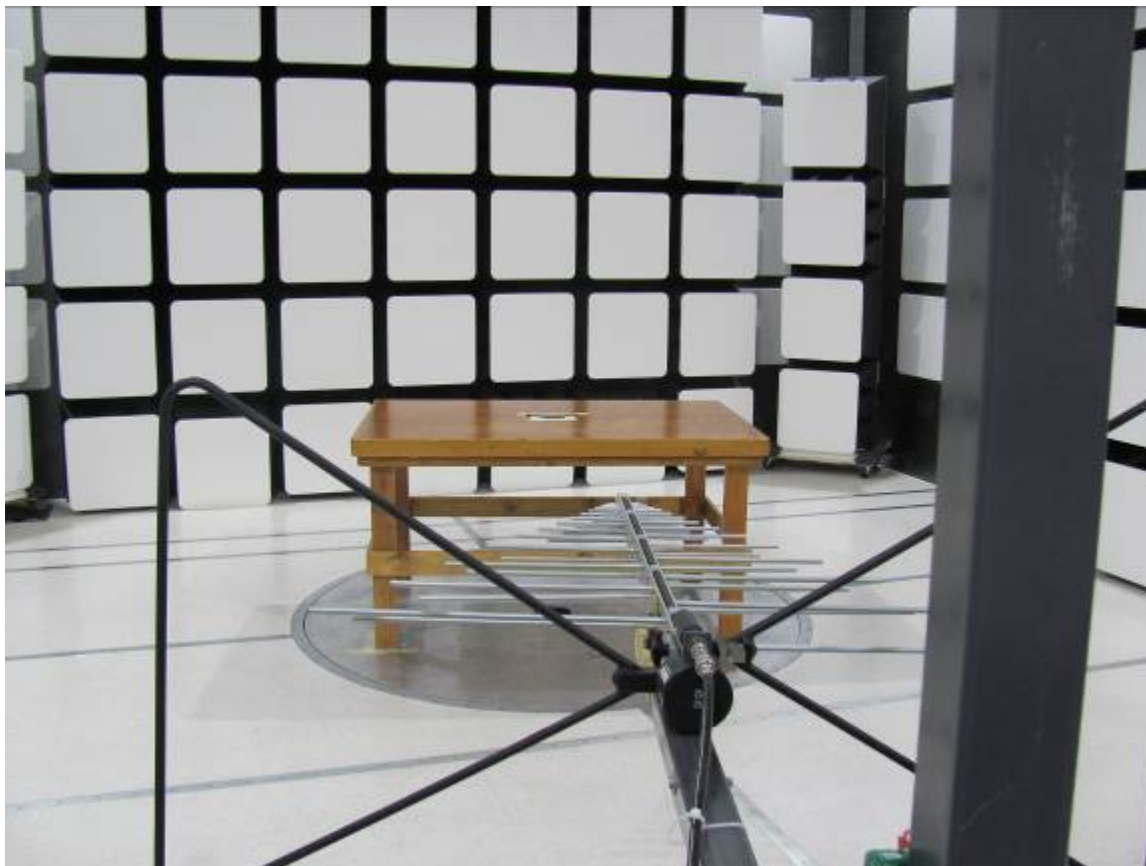
COM-POWER PA-840

MICROWAVE PREAMPLIFIER

S/N: 711013

CALIBRATION DATE: MAY 13, 2014

| FREQUENCY<br>(GHz) | FACTOR<br>(dB) | FREQUENCY<br>(GHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 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          | 36.0               | 23.46          |
| 27.5               | 25.33          | 36.5               | 23.71          |
| 28.0               | 24.49          | 37.0               | 26.35          |
| 28.5               | 24.74          | 37.5               | 23.49          |
| 29.0               | 25.93          | 38.0               | 25.42          |
| 29.5               | 26.28          | 38.5               | 24.87          |
| 30.0               | 26.17          | 39.0               | 22.60          |
| 30.5               | 26.11          | 39.5               | 20.57          |
|                    |                | 40.0               | 19.15          |

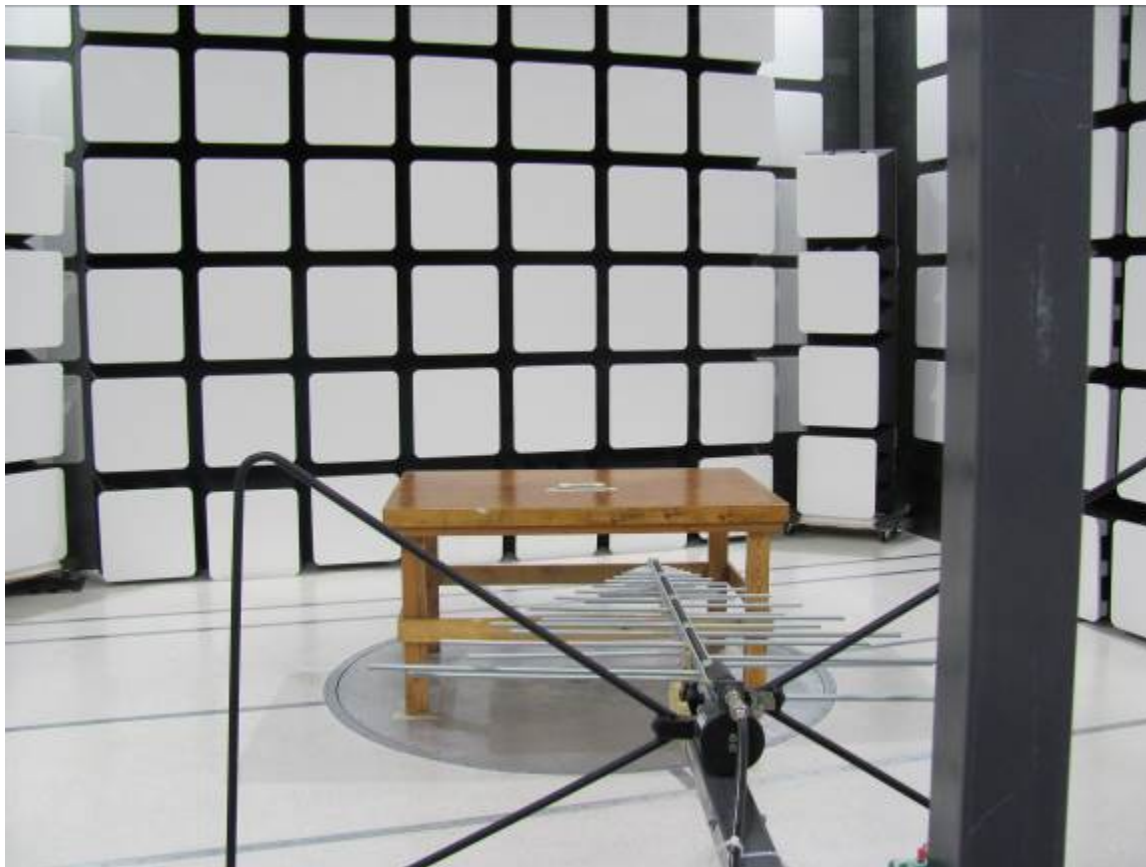


**FRONT VIEW**

WAYTOOLS, LLC.  
TEXTBLADE  
MODEL: TEX20

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

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



**REAR VIEW**

WAYTOOLS, LLC.

TEXTBLADE

MODEL: TEX20

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

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



**FRONT VIEW**

WAYTOOLS, LLC.

TEXTBLADE

MODEL: TEX20

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

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

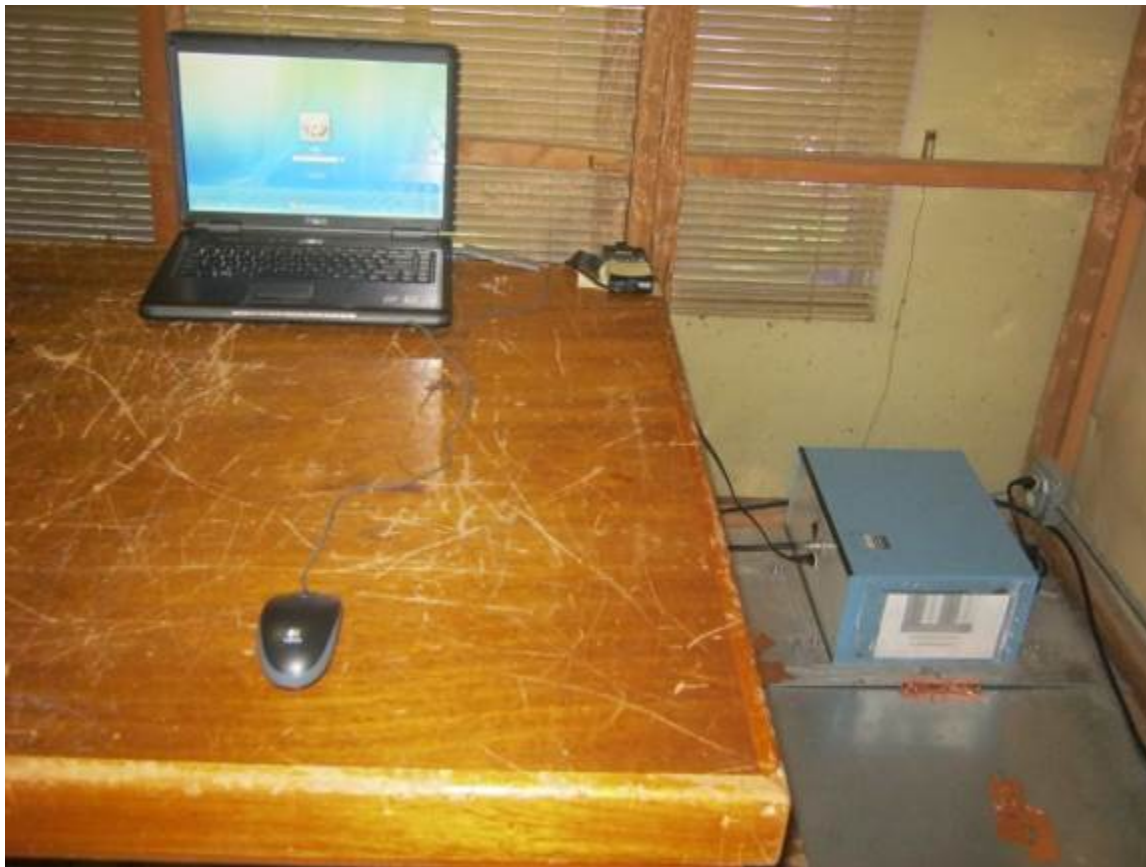


**REAR VIEW**

WAYTOOLS, LLC.  
TEXTBLADE  
MODEL: TEX20

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

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



**FRONT VIEW**

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MODEL: TEX20  
FCC SUBPART B – CONDUCTED EMISSIONS

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



**REAR VIEW**

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MODEL: TEX20  
FCC SUBPART B – CONDUCTED EMISSIONS

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



**FRONT VIEW**

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FCC SUBPART B – CONDUCTED EMISSIONS

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FOR MAXIMUM EMISSIONS**



**REAR VIEW**

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MODEL: TEX20  
FCC SUBPART B – CONDUCTED EMISSIONS

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



**FRONT VIEW**

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TEXTBLADE  
MODEL: TEX20  
FCC SUBPART B – RADIATED EMISSIONS

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



**REAR VIEW**

WAYTOOLS, LLC.  
TEXTBLADE  
MODEL: TEX20  
FCC SUBPART B – RADIATED EMISSIONS

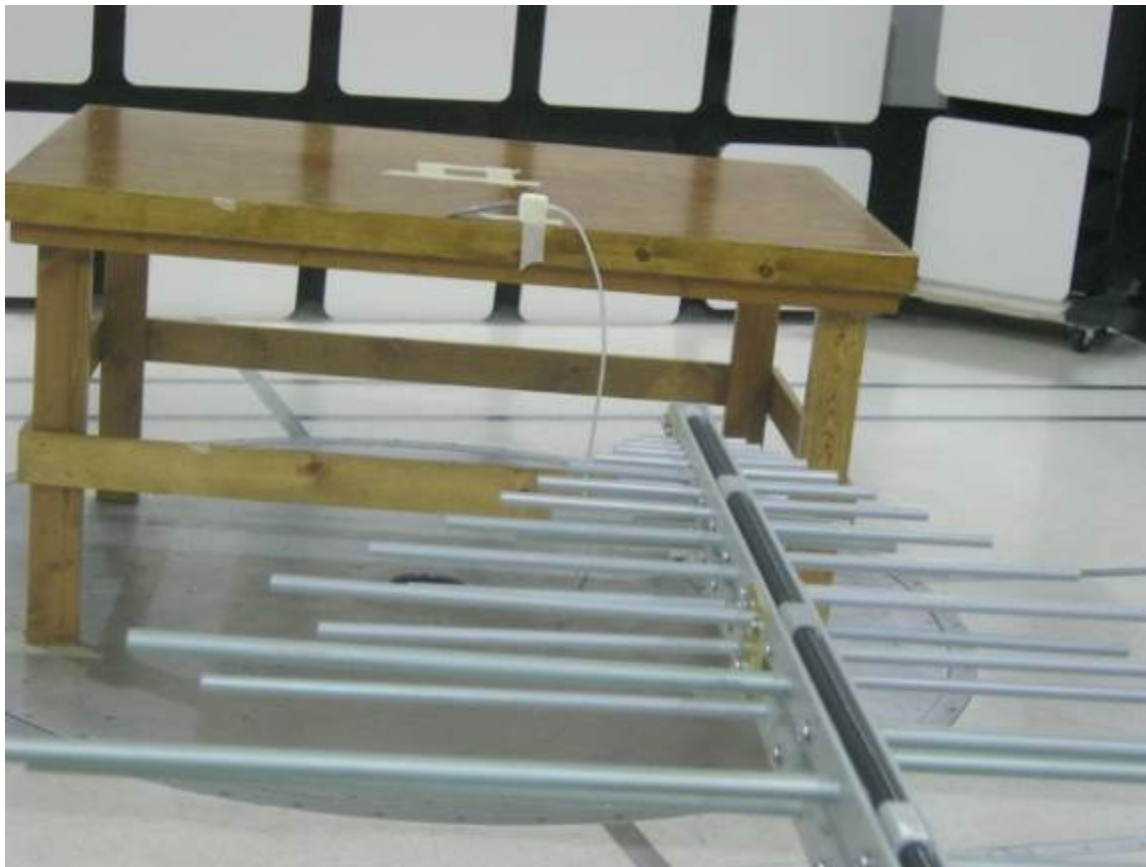
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**FRONT VIEW**

WAYTOOLS, LLC.  
TEXTBLADE  
MODEL: TEX20  
FCC SUBPART B – RADIATED EMISSIONS

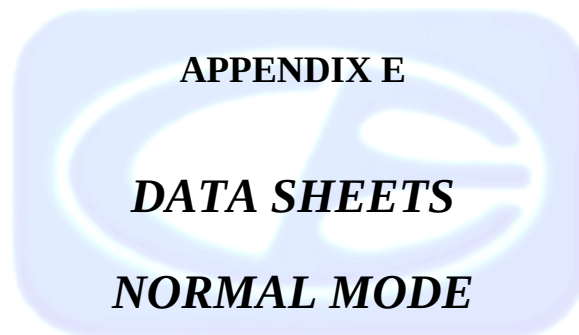
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

WAYTOOLS, LLC.  
TEXTBLADE  
MODEL: TEX20  
FCC SUBPART B – RADIATED EMISSIONS

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



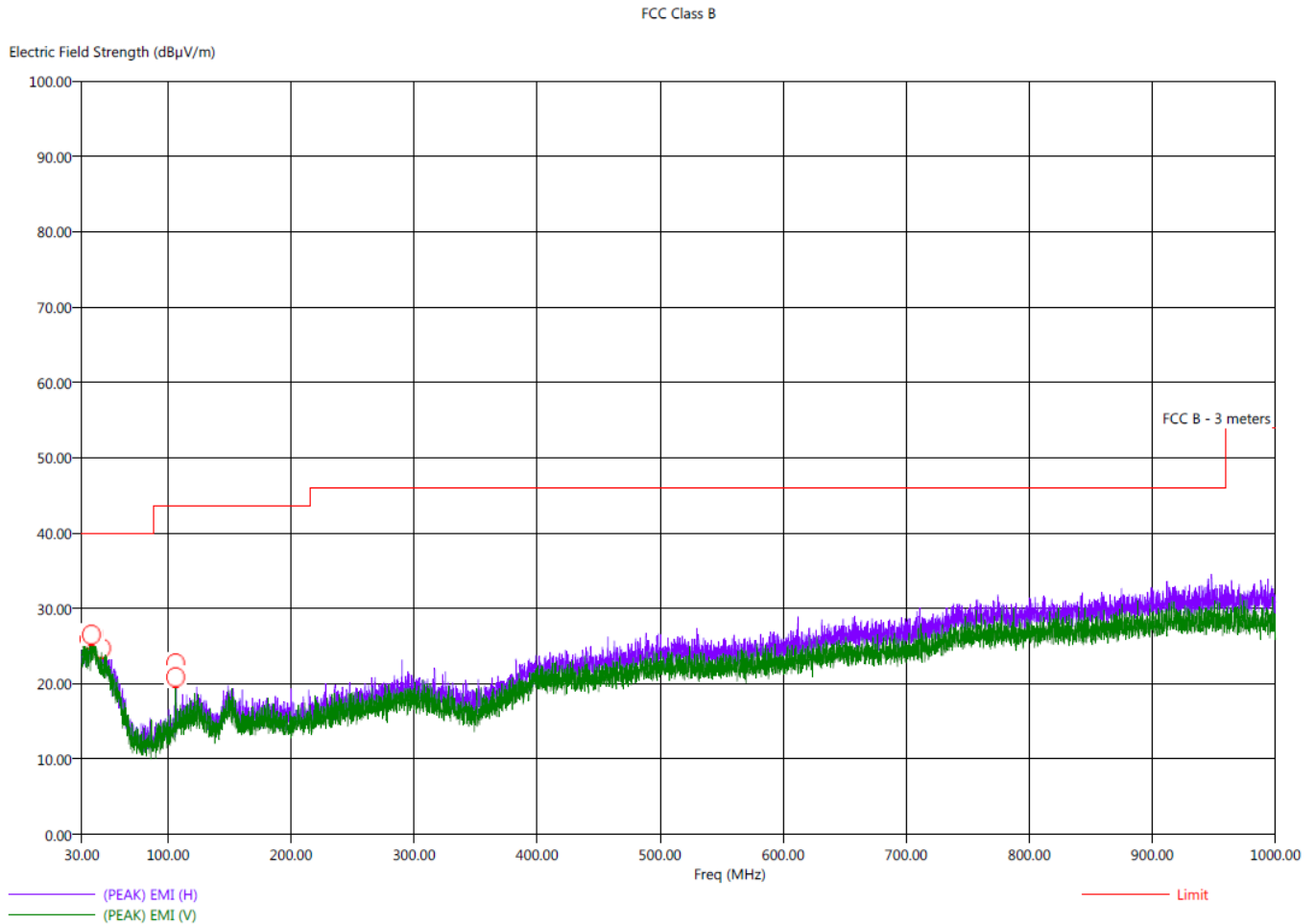


***RADIATED EMISSIONS***

***DATA SHEETS***

Title: Pre-Scan - 30-1000 MHz - FCC Class B  
File: Agilent - Radiated Pre-Scan 30-1000 MHz - Middle Channel - FCC Class B.set  
Operator: Kyle Fujimoto  
EUT Type: TextBlade  
EUT Condition: The EUT is continuously Transmitting at the Middle Channel - Worst Case  
Customer: Waytools LLC  
Model: TEX20

3/11/2015 1:04:47 PM  
Sequence: Preliminary Scan



**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

Title: Radiated Final - 30-1000 MHz - FCC Class B  
File: Agilent - Radiated Final Scan 30-1000 MHz - Middle Channel - FCC Class B.set  
Operator: Kyle Fujimoto  
EUT Type: TextBlade  
EUT Condition: The EUT is continuously Transmitting at the Middle Channel - Worst Case  
Customer: Waytools LLC  
Model: TEX20

3/11/2015 1:57:06 PM  
Sequence: Final Measurements

## FCC Class B - 30 MHz - 1 GHz

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dB $\mu$ V/m) | (OP) EMI<br>(dB $\mu$ V/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dB $\mu$ V/m) | Transducer<br>(dB) | Cable<br>(dB) | Ttbl Aql<br>(deq) | Twr Ht<br>(cm) |
|---------------|-----|------------------------------|----------------------------|-----------------------|---------------------|-------------------------|--------------------|---------------|-------------------|----------------|
| 36.00         | H   | 27.13                        | 22.69                      | -12.87                | -17.31              | 40.00                   | 23.83              | 0.40          | 186.50            | 173.76         |
| 37.90         | V   | 27.01                        | 22.96                      | -12.99                | -17.04              | 40.00                   | 24.02              | 0.42          | 287.50            | 159.31         |
| 39.20         | H   | 27.26                        | 23.09                      | -12.74                | -16.91              | 40.00                   | 24.13              | 0.42          | 158.50            | 236.56         |
| 46.10         | H   | 25.15                        | 21.51                      | -14.85                | -18.49              | 40.00                   | 22.50              | 0.47          | 94.50             | 303.31         |
| 106.30        | H   | 19.97                        | 16.42                      | -23.53                | -27.08              | 43.50                   | 14.04              | 0.75          | 170.25            | 158.71         |
| 106.40        | V   | 21.23                        | 18.39                      | -22.27                | -25.11              | 43.50                   | 14.05              | 0.75          | 46.25             | 271.55         |



**FCC 15.249**

WayTools, LLC.

TextBlade

Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**Fundamental of the EUT****Transmit Mode - 0 dBm**

| 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           | 74.44           | V            | 114   | -39.56 | Peak                  | 1.25                  | 45                      | Fundamental       |
| 2402           | 72.84           | V            | 94    | -21.16 | Avg                   | 1.25                  | 45                      | of Low Channel    |
| 2402           | 78.48           | H            | 114   | -35.52 | Peak                  | 1.5                   | 225                     | Fundamental       |
| 2402           | 77.39           | H            | 94    | -16.61 | Avg                   | 1.5                   | 225                     | of Low Channel    |
| 2440           | 72.27           | V            | 114   | -41.73 | Peak                  | 1.5                   | 90                      | Fundamental       |
| 2440           | 70.41           | V            | 94    | -23.59 | Avg                   | 1.5                   | 90                      | of Middle Channel |
| 2440           | 77.71           | H            | 114   | -36.29 | Peak                  | 1.25                  | 155                     | Fundamental       |
| 2440           | 75.64           | H            | 94    | -18.36 | Avg                   | 1.25                  | 155                     | of Middle Channel |
| 2480           | 71.36           | V            | 114   | -42.64 | Peak                  | 1.25                  | 225                     | Fundamental       |
| 2480           | 69.59           | V            | 94    | -24.41 | Avg                   | 1.25                  | 225                     | of High Channel   |
| 2480           | 77.49           | H            | 114   | -36.51 | Peak                  | 1                     | 135                     | Fundamental       |
| 2480           | 75.91           | H            | 94    | -18.09 | Avg                   | 1                     | 135                     | of High Channel   |

**FCC 15.249**

WayTools, LLC.

TextBlade

Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**Low Channel****Transmit Mode - 0 dBm**

| 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    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 4804           | 46.01           | V            | 74    | -27.99 | Peak                  | 1.25                  | 225                     |             |
| 4804           | 32.96           | V            | 54    | -21.04 | Avg                   | 1.25                  | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7206           | 50.31           | V            | 74    | -23.69 | Peak                  | 1.25                  | 145                     |             |
| 7206           | 37.56           | V            | 54    | -16.44 | Peak                  | 1.25                  | 145                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9608           | 49.81           | V            | 74    | -24.19 | Peak                  | 1.35                  | 165                     |             |
| 9608           | 35.89           | V            | 54    | -18.11 | Peak                  | 1.35                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 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**

WayTools, LLC.

TextBlade

Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**Low Channel**

Transmit Mode - 0 dBm

| 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    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 4804           | 46.13           | H            | 74    | -27.87 | Peak                  | 1.5                   | 135                     |             |
| 4804           | 31.55           | H            | 54    | -22.45 | Avg                   | 1.5                   | 135                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7206           | 49.83           | H            | 74    | -24.17 | Peak                  | 1.25                  | 135                     |             |
| 7206           | 37.62           | H            | 54    | -16.38 | Avg                   | 1.25                  | 135                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9608           | 49.48           | H            | 74    | -24.52 | Peak                  | 1.35                  | 125                     |             |
| 9608           | 35.93           | H            | 54    | -18.07 | Avg                   | 1.35                  | 125                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 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**

WayTools, LLC.  
TextBlade  
Model: TEX20

Date: 03/11/2015  
Lab: B  
Tested By: Kyle Fujimoto

**Middle Channel**  
**Transmit Mode - 0 dBm**

| 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    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 4880           | 49.61           | V            | 74    | -24.39 | Peak                  | 1.25                  | 155                     |             |
| 4880           | 42.77           | V            | 54    | -11.23 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7320           | 49.15           | V            | 74    | -24.85 | Peak                  | 1.35                  | 175                     |             |
| 7320           | 37.85           | V            | 54    | -16.15 | Avg                   | 1.35                  | 175                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9760           | 51.86           | V            | 74    | -22.14 | Peak                  | 1.25                  | 185                     |             |
| 9760           | 37.76           | V            | 54    | -16.24 | Avg                   | 1.25                  | 185                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 12200          |                 |              |       |        |                       |                       |                         | No Emission |
| 12200          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14640          |                 |              |       |        |                       |                       |                         | No Emission |
| 14640          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17080          |                 |              |       |        |                       |                       |                         | No Emission |
| 17080          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19520          |                 |              |       |        |                       |                       |                         | No Emission |
| 19520          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21960          |                 |              |       |        |                       |                       |                         | No Emission |
| 21960          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24400          |                 |              |       |        |                       |                       |                         | No Emission |
| 24400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

WayTools, LLC.

TextBlade

Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel****Transmit Mode - 0 dBm**

| 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    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 4880           | 49.22           | H            | 74    | -24.78 | Peak                  | 1.25                  | 225                     |             |
| 4880           | 41.26           | H            | 54    | -12.74 | Avg                   | 1.25                  | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7320           | 49.84           | H            | 74    | -24.16 | Peak                  | 1.25                  | 225                     |             |
| 7320           | 37.31           | H            | 54    | -16.69 | Avg                   | 1.25                  | 225                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9760           | 50.03           | H            | 74    | -23.97 | Peak                  | 1.45                  | 235                     |             |
| 9760           | 37.81           | H            | 54    | -16.19 | Avg                   | 1.45                  | 235                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 12200          |                 |              |       |        |                       |                       |                         | No Emission |
| 12200          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 14640          |                 |              |       |        |                       |                       |                         | No Emission |
| 14640          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 17080          |                 |              |       |        |                       |                       |                         | No Emission |
| 17080          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 19520          |                 |              |       |        |                       |                       |                         | No Emission |
| 19520          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 21960          |                 |              |       |        |                       |                       |                         | No Emission |
| 21960          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |
| 24400          |                 |              |       |        |                       |                       |                         | No Emission |
| 24400          |                 |              |       |        |                       |                       |                         | Detected    |
|                |                 |              |       |        |                       |                       |                         |             |

**FCC 15.249**

WayTools, LLC.  
TextBlade  
Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - 0 dBm**

| 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    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 4960           | 50.87           | V            | 74    | -23.13 | Peak                  | 1.25                  | 155                     |             |
| 4960           | 43.79           | V            | 54    | -10.21 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 50.15           | V            | 74    | -23.85 | Peak                  | 1.35                  | 165                     |             |
| 7440           | 37.88           | V            | 54    | -16.12 | Avg                   | 1.35                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           | 52.82           | V            | 74    | -21.18 | Peak                  | 1.25                  | 175                     |             |
| 9920           | 40.21           | V            | 54    | -13.79 | Avg                   | 1.25                  | 175                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 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**

WayTools, LLC.  
TextBlade  
Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**High Channel**

Transmit Mode - 0 dBm

| 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    |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 4960           | 48.95           | H            | 74    | -25.05 | Peak                  | 1.25                  | 155                     |             |
| 4960           | 40.75           | H            | 54    | -13.25 | Avg                   | 1.25                  | 155                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 7440           | 47.63           | H            | 74    | -26.37 | Peak                  | 1.25                  | 165                     |             |
| 7440           | 37.21           | H            | 54    | -16.79 | Avg                   | 1.25                  | 165                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 9920           | 53.23           | H            | 74    | -20.77 | Peak                  | 1.35                  | 175                     |             |
| 9920           | 40.22           | H            | 54    | -13.78 | Avg                   | 1.35                  | 175                     |             |
|                |                 |              |       |        |                       |                       |                         |             |
| 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**

WayTools, LLC.

TextBlade

Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

**Band Edges - Vertical Polarization****Low Channel - 2402 MHz****Middle Channel - 2440 MHz****High Channel - 2480 MHz**

| 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           | 74.44           | V            | 114   | -39.56 | Peak                  | 1.25                  | 45                      | Fundamental of Low Channel    |
| 2402           | 72.84           | V            | 94    | -21.16 | Avg                   | 1.25                  | 45                      | @ 3 meters                    |
| 2400           | 42.49           | V            | 74    | -31.51 | Peak                  | 1.25                  | 45                      | No Marker Delta Method        |
| 2400           | 31.50           | V            | 54    | -22.5  | Peak                  | 1.25                  | 45                      | Method Used                   |
| 2440           | 72.27           | V            | 114   | -41.73 | Peak                  | 1.5                   | 90                      | Fundamental of Middle Channel |
| 2440           | 70.41           | V            | 94    | -23.59 | Avg                   | 1.5                   | 90                      | @ 3 meters                    |
| 2480           | 71.36           | V            | 114   | -42.64 | Peak                  | 1.25                  | 225                     | Fundamental of High Channel   |
| 2480           | 69.59           | V            | 94    | -24.41 | Avg                   | 1.25                  | 225                     | @ 3 meters                    |
| 2483.5         | 39.02           | V            | 74    | -34.98 | Peak                  | 1.25                  | 225                     | No Marker Delta Method        |
| 2483.5         | 26.66           | V            | 54    | -27.34 | Avg                   | 1.25                  | 225                     | Method Used                   |

**FCC 15.249**

WayTools, LLC.

TextBlade

Model: TEX20

Date: 03/11/2015

Lab: B

Tested By: Kyle Fujimoto

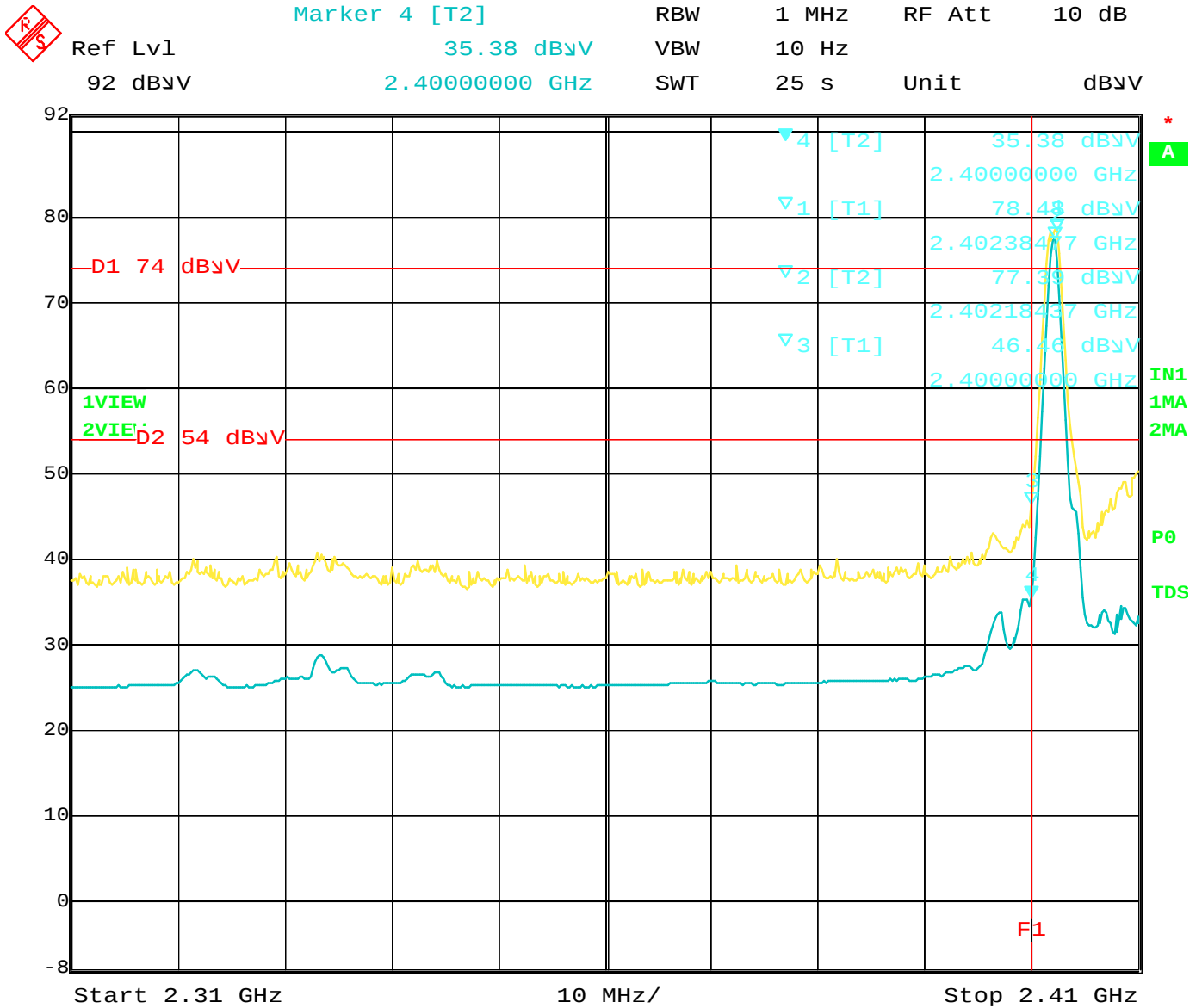
**Band Edges - Horizontal Polarization**

Low Channel - 2402 MHz

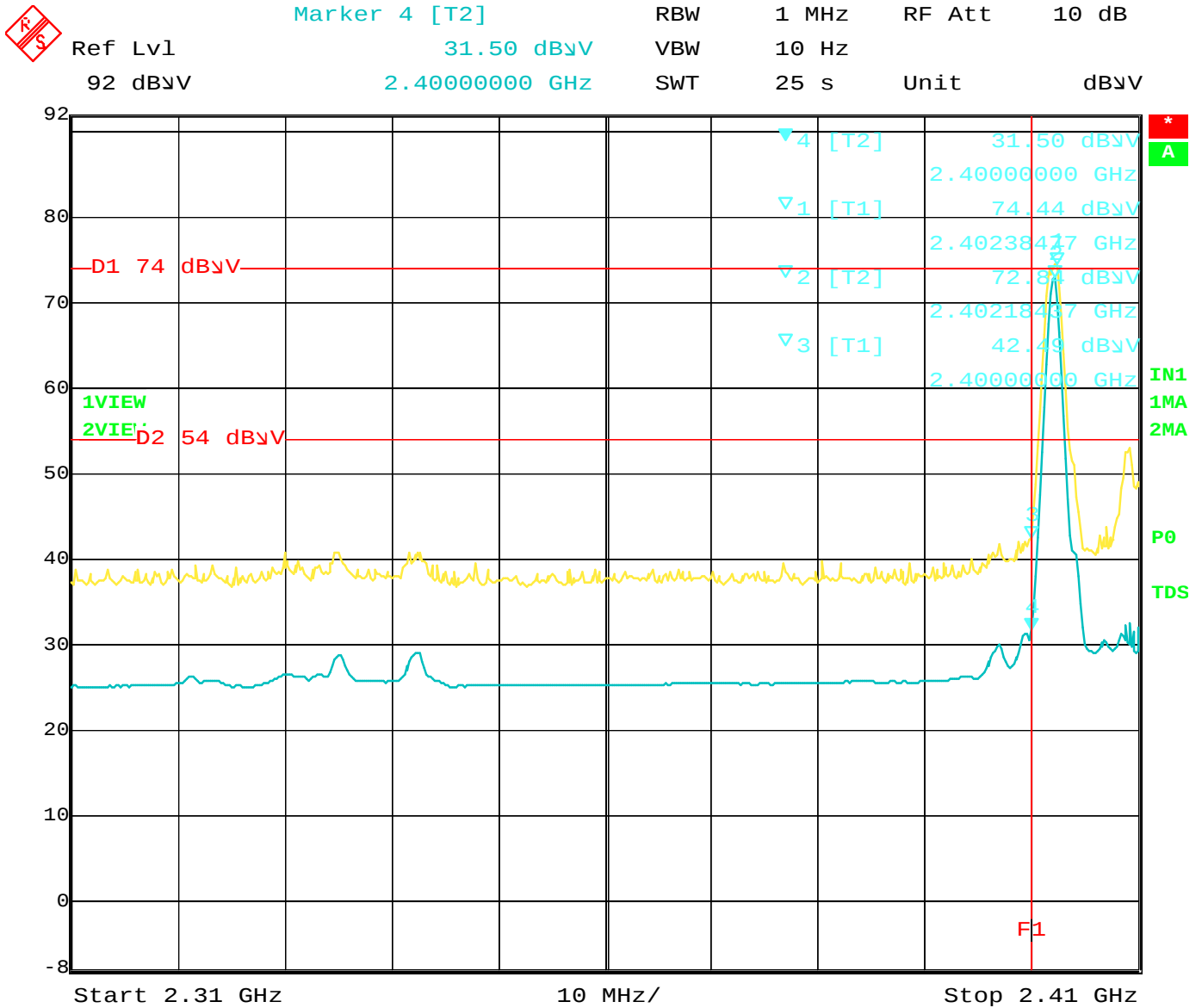
Middle Channel - 2440 MHz

High Channel - 2480 MHz

| 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           | 78.48           | H            | 114   | -35.52 | Peak                  | 1.5                   | 225                     | Fundamental of Low Channel    |
| 2402           | 77.39           | H            | 94    | -16.61 | Avg                   | 1.5                   | 225                     | @ 3 meters                    |
| 2400           | 46.46           | H            | 74    | -27.54 | Peak                  | 1.5                   | 225                     | No Marker Delta Method        |
| 2400           | 35.38           | H            | 54    | -18.62 | Peak                  | 1.5                   | 225                     | Method Used                   |
| 2440           | 77.71           | H            | 114   | -36.29 | Peak                  | 1.25                  | 155                     | Fundamental of Middle Channel |
| 2440           | 75.64           | H            | 94    | -18.36 | Avg                   | 1.25                  | 155                     | @ 3 meters                    |
| 2480           | 77.49           | H            | 114   | -36.51 | Peak                  | 1                     | 135                     | Fundamental of High Channel   |
| 2480           | 75.91           | H            | 94    | -18.09 | Avg                   | 1                     | 135                     | @ 3 meters                    |
| 2483.5         | 39.83           | H            | 74    | -34.17 | Peak                  | 1                     | 135                     | No Marker Delta Method        |
| 2483.5         | 28.88           | H            | 54    | -25.12 | Avg                   | 1                     | 135                     | Method Used                   |

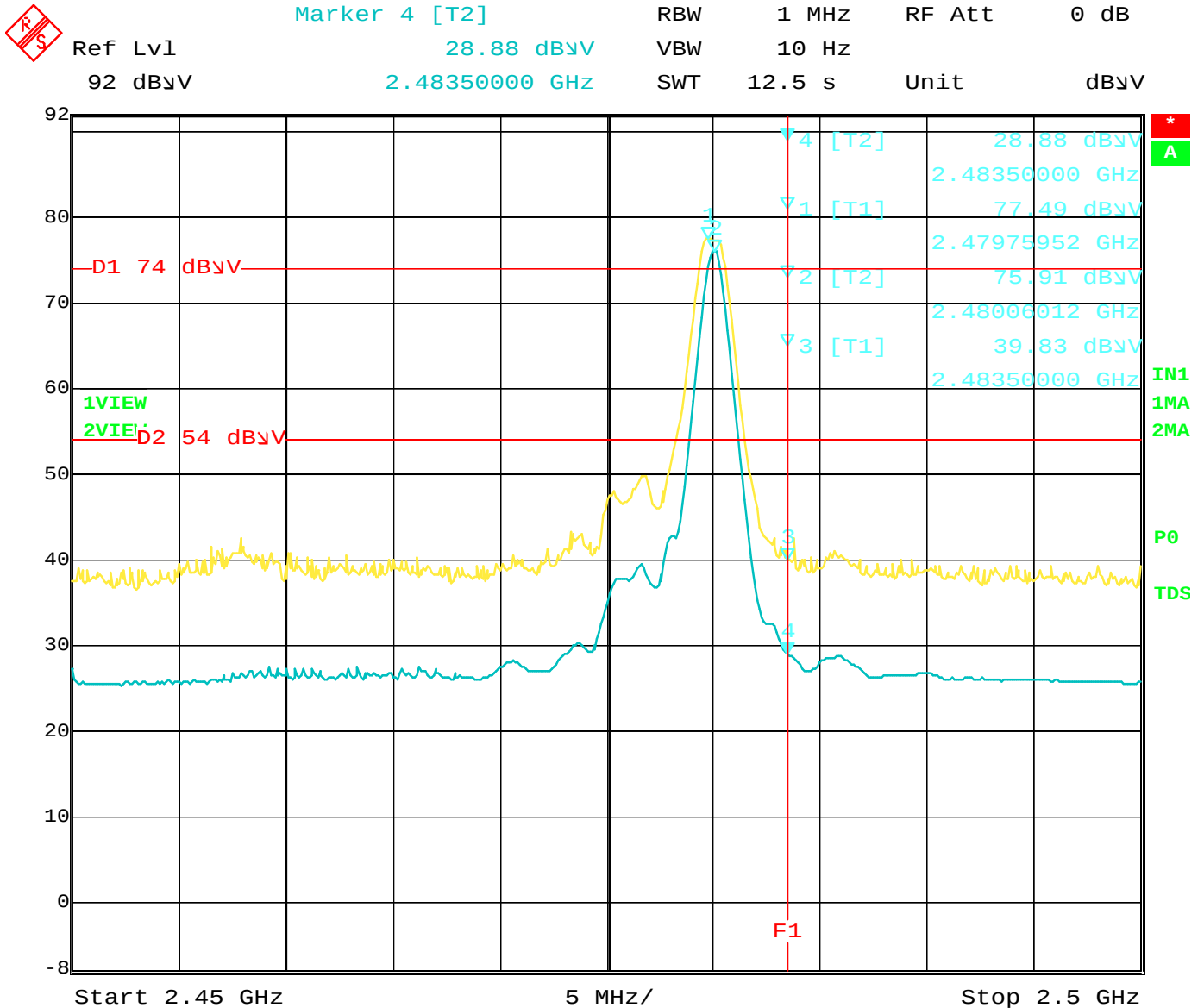


Band Edge – Low Channel – Horizontal Polarization



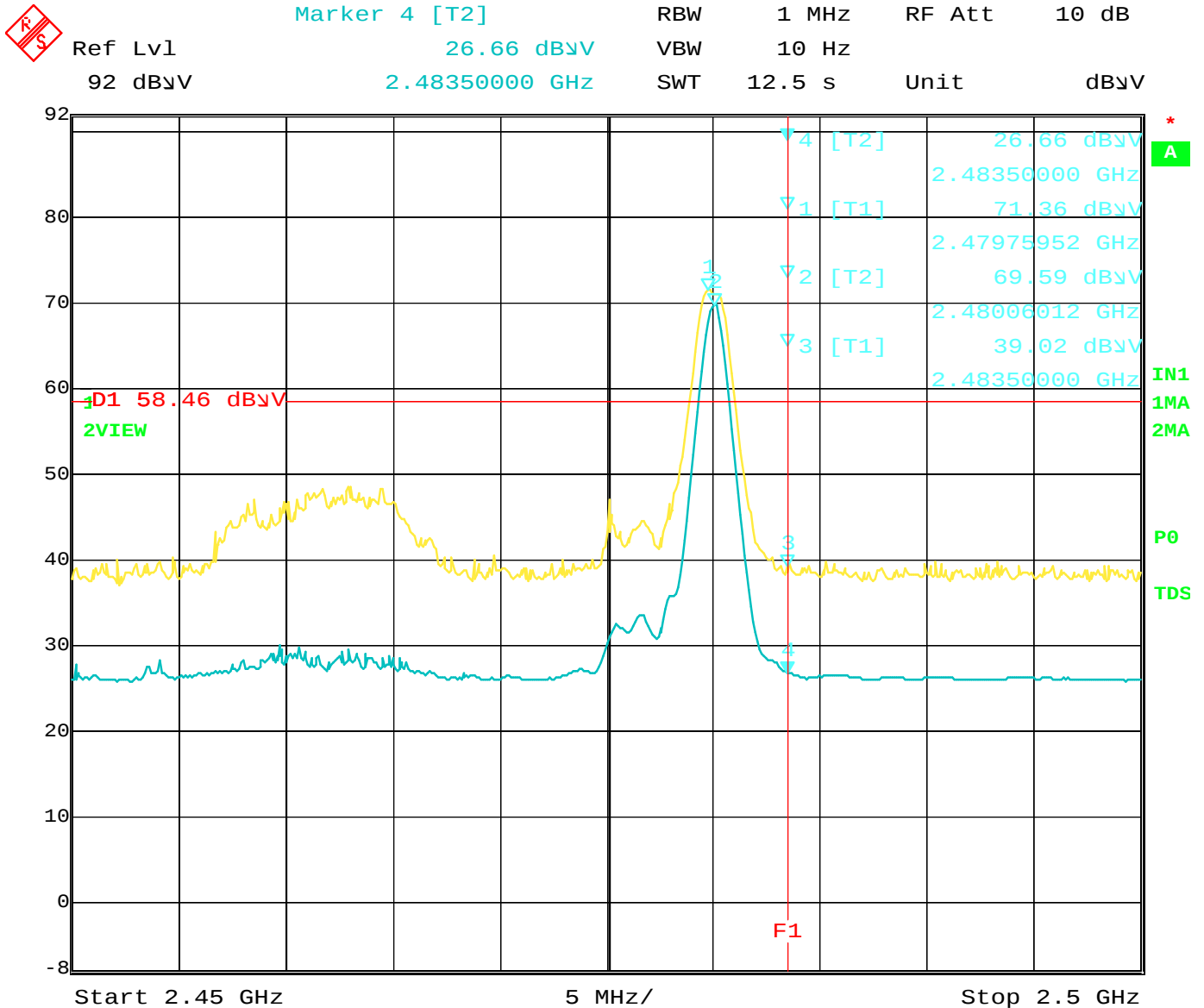
Date: 11.MAR.2015 06:49:52

Band Edge – Low Channel – Vertical Polarization



Date: 11.MAR.2015 08:27:54

Band Edge – High Channel – Horizontal Polarization



Band Edge – High Channel – Vertical Polarization

**FCC Class B and FCC 15.249**

WayTools, LLC.

TextBlade

Model: TEX20

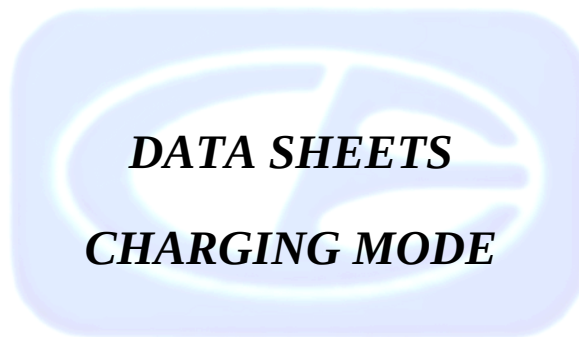
Date: 03/11/2015

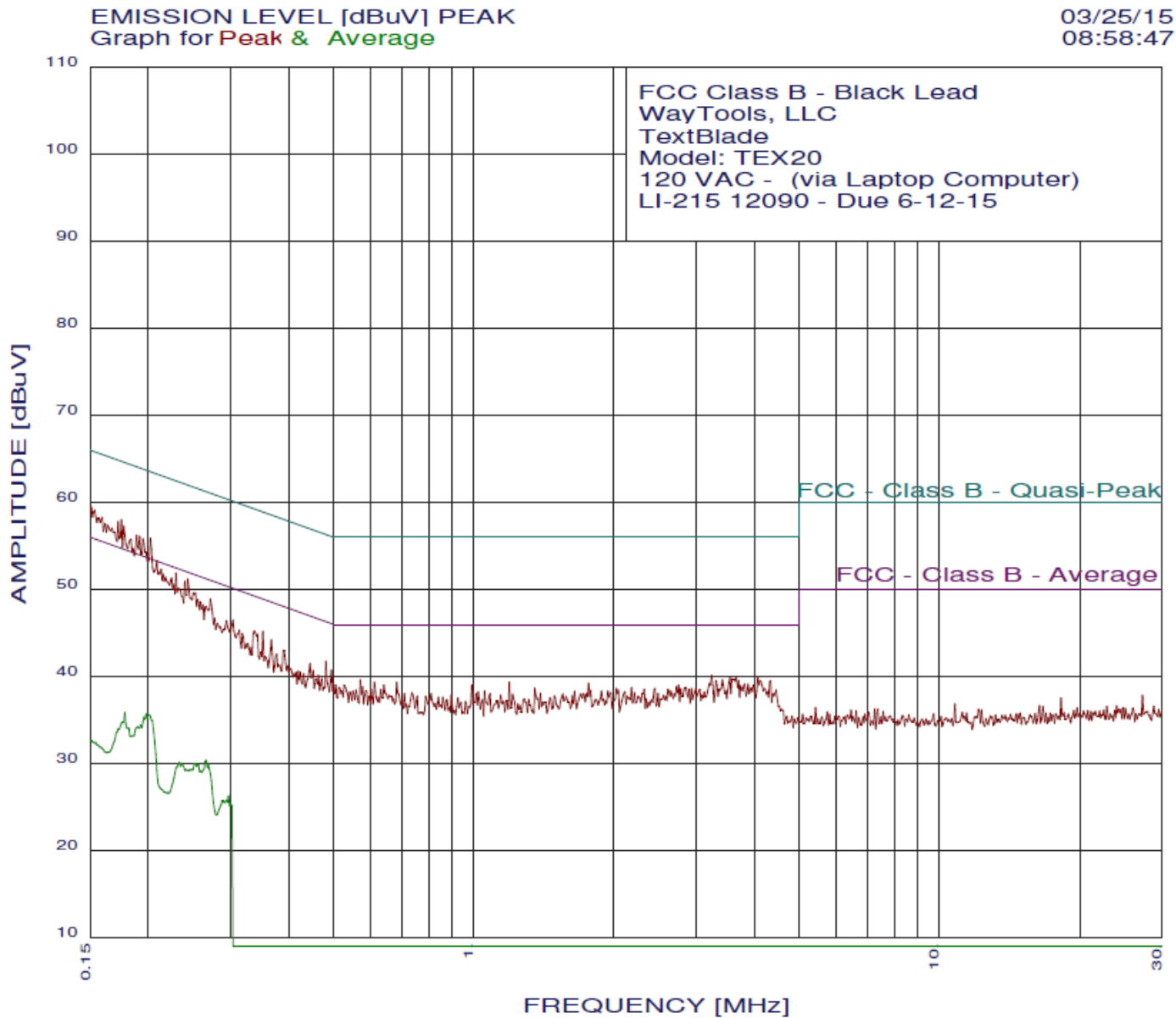
Labs: B and D

Tested By: Kyle Fujimoto

**Non Harmonic Emissions from the Tx and Digital Portion - 10 kHz 30 MHz**
**Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz**
**Vertical and Horizontal Polarizations**

| 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                                                                                                                         |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                |                 |              |       |        |                       |                       |                         | No Emissions Found for the<br>Digital Portion<br>from 10 kHz to 30 MHz<br>for both Vertical and Horizontal<br>Polarizations      |
|                |                 |              |       |        |                       |                       |                         | No Non Harmonic Emissions Found<br>for the Tx Mode<br>from 10 kHz to 30 MHz<br>for both Vertical and Horizontal<br>Polarizations |
|                |                 |              |       |        |                       |                       |                         | No Emissions Found for the<br>Digital Portion<br>from 1 GHz to 25 GHz<br>for both Vertical and Horizontal<br>Polarizations       |
|                |                 |              |       |        |                       |                       |                         | No Non Harmonic Emissions Found<br>for the Tx Mode<br>from 1 GHz to 25 GHz<br>for both Vertical and Horizontal<br>Polarizations  |
|                |                 |              |       |        |                       |                       |                         | Tested at the Low, Middle,<br>and High Channels                                                                                  |





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03/25/15 08:58:47

FCC Class B - Black Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via Laptop Computer)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

-----  
49 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 0.175     | 58.01     | 54.72     | 3.29**    |
| 2     | 0.172     | 57.82     | 54.86     | 2.96**    |
| 3     | 0.177     | 57.30     | 54.63     | 2.67**    |
| 4     | 0.202     | 55.89     | 53.53     | 2.36**    |
| 5     | 0.192     | 56.14     | 53.97     | 2.17**    |
| 6     | 0.188     | 56.25     | 54.10     | 2.15**    |
| 7     | 0.195     | 55.82     | 53.84     | 1.98**    |
| 8     | 0.183     | 55.77     | 54.33     | 1.44**    |
| 9     | 0.208     | 53.27     | 53.27     | -0.00**   |
| 10    | 0.229     | 51.88     | 52.48     | -0.59**   |
| 11    | 0.243     | 51.23     | 52.00     | -0.77**   |
| 12    | 0.239     | 50.94     | 52.12     | -1.18**   |
| 13    | 0.272     | 48.91     | 51.07     | -2.15**   |
| 14    | 0.304     | 46.49     | 50.14     | -3.66     |
| 15    | 0.352     | 45.20     | 48.91     | -3.71     |
| 16    | 0.294     | 46.43     | 50.41     | -3.98**   |
| 17    | 0.338     | 45.25     | 49.26     | -4.01     |
| 18    | 0.367     | 44.21     | 48.56     | -4.36     |
| 19    | 0.481     | 41.74     | 46.32     | -4.58     |
| 20    | 0.318     | 44.93     | 49.75     | -4.82     |
| 21    | 0.391     | 43.01     | 48.03     | -5.02     |
| 22    | 0.494     | 40.74     | 46.09     | -5.35     |
| 23    | 0.445     | 41.53     | 46.98     | -5.45     |
| 24    | 0.377     | 42.61     | 48.34     | -5.73     |
| 25    | 3.243     | 40.14     | 46.00     | -5.86     |
| 26    | 4.071     | 39.95     | 46.00     | -6.05     |
| 27    | 3.663     | 39.84     | 46.00     | -6.16     |
| 28    | 3.547     | 39.84     | 46.00     | -6.16     |
| 29    | 3.419     | 39.64     | 46.00     | -6.36     |
| 30    | 0.570     | 39.64     | 46.00     | -6.36     |
| 31    | 4.339     | 39.55     | 46.00     | -6.45     |
| 32    | 3.311     | 39.54     | 46.00     | -6.46     |
| 33    | 0.464     | 40.13     | 46.62     | -6.49     |
| 34    | 1.191     | 39.36     | 46.00     | -6.64     |
| 35    | 0.611     | 39.34     | 46.00     | -6.66     |
| 36    | 0.683     | 39.34     | 46.00     | -6.66     |
| 37    | 0.471     | 39.74     | 46.49     | -6.75     |
| 38    | 1.763     | 39.22     | 46.00     | -6.78     |
| 39    | 0.419     | 40.62     | 47.46     | -6.84     |
| 40    | 3.882     | 39.15     | 46.00     | -6.85     |
| 41    | 3.820     | 39.14     | 46.00     | -6.86     |
| 42    | 0.431     | 40.32     | 47.24     | -6.91     |
| 43    | 3.987     | 39.05     | 46.00     | -6.95     |
| 44    | 0.527     | 39.04     | 46.00     | -6.96     |
| 45    | 2.751     | 39.04     | 46.00     | -6.96     |
| 46    | 0.641     | 39.04     | 46.00     | -6.96     |
| 47    | 0.990     | 39.04     | 46.00     | -6.96     |
| 48    | 0.513     | 38.74     | 46.00     | -7.26     |
| 49    | 2.855     | 38.74     | 46.00     | -7.26     |

  
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\*\* Please See Average Reading on Previous Graph and Following Data Sheet

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

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03/25/15 08:58:47

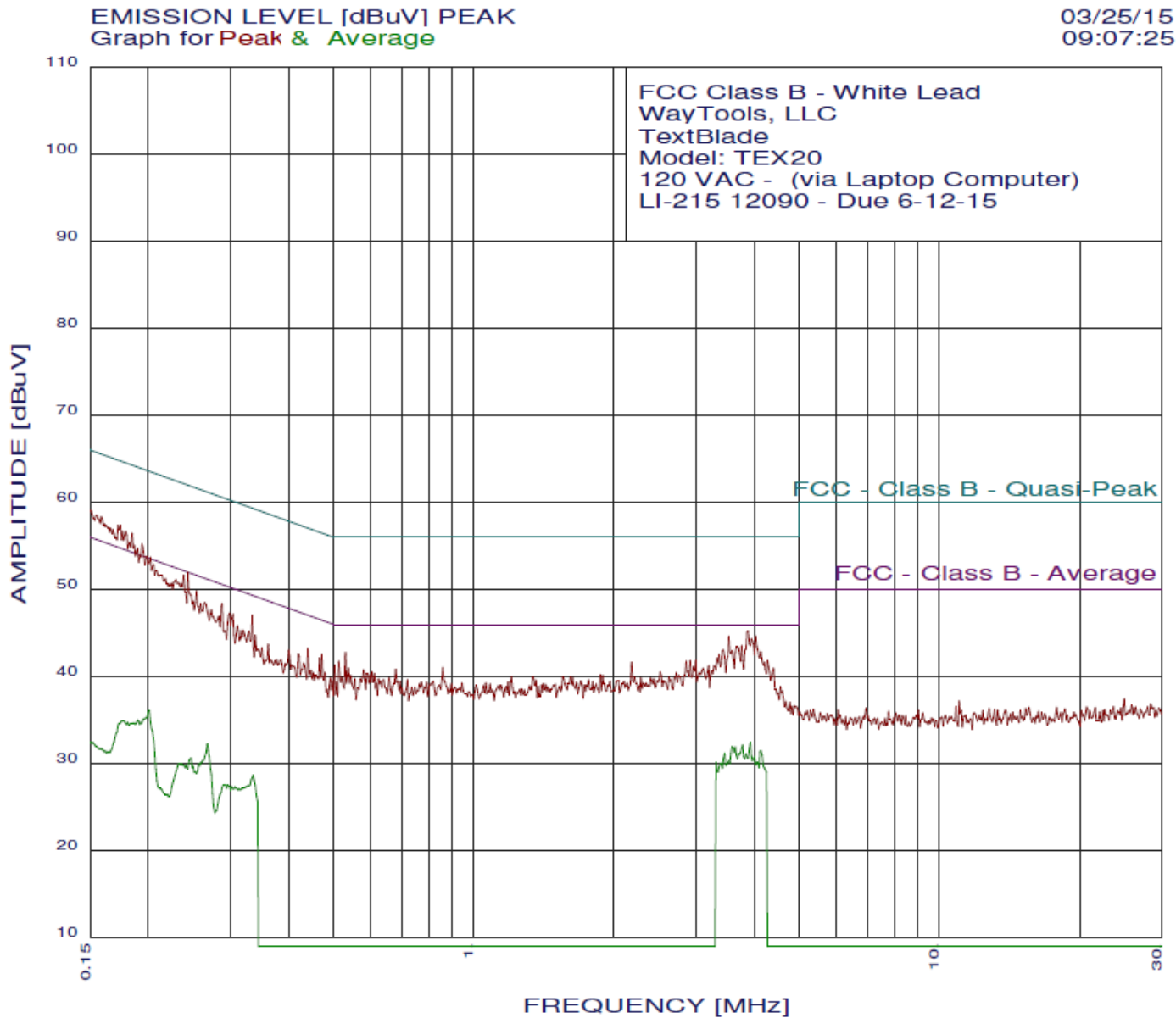
FCC Class B - Black Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via Laptop Computer)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

-----  
18 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 0.200     | 35.62     | 53.62     | -18.00    |
| 2     | 0.198     | 35.68     | 53.71     | -18.03    |
| 3     | 0.196     | 35.33     | 53.80     | -18.47    |
| 4     | 0.178     | 35.86     | 54.59     | -18.73    |
| 5     | 0.193     | 34.46     | 53.93     | -19.46    |
| 6     | 0.189     | 34.24     | 54.06     | -19.82    |
| 7     | 0.266     | 30.40     | 51.24     | -20.85    |
| 8     | 0.269     | 29.91     | 51.15     | -21.25    |
| 9     | 0.256     | 29.92     | 51.55     | -21.64    |
| 10    | 0.251     | 30.01     | 51.73     | -21.72    |
| 11    | 0.235     | 30.04     | 52.25     | -22.22    |
| 12    | 0.233     | 30.12     | 52.34     | -22.22    |
| 13    | 0.259     | 29.16     | 51.47     | -22.31    |
| 14    | 0.240     | 29.34     | 52.08     | -22.74    |
| 15    | 0.297     | 26.30     | 50.32     | -24.02    |
| 16    | 0.294     | 25.82     | 50.41     | -24.59    |
| 17    | 0.288     | 25.73     | 50.58     | -24.85    |
| 18    | 0.300     | 25.33     | 50.23     | -24.90    |

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03/25/15 09:07:25

FCC Class B - White Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via Laptop Computer)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

49 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 0.172     | 57.39     | 54.86     | 2.53**    |
| 2     | 0.184     | 56.45     | 54.28     | 2.16**    |
| 3     | 0.194     | 55.22     | 53.88     | 1.33**    |
| 4     | 0.243     | 51.96     | 52.00     | -0.04**   |
| 5     | 0.238     | 51.67     | 52.17     | -0.50**   |
| 6     | 3.882     | 45.24     | 46.00     | -0.76**   |
| 7     | 4.029     | 44.64     | 46.00     | -1.36**   |
| 8     | 3.529     | 44.64     | 46.00     | -1.36**   |
| 9     | 0.254     | 49.82     | 51.64     | -1.82**   |
| 10    | 0.288     | 48.41     | 50.58     | -2.17**   |
| 11    | 0.334     | 47.06     | 49.35     | -2.29**   |
| 12    | 3.761     | 43.54     | 46.00     | -2.46**   |
| 13    | 3.683     | 43.44     | 46.00     | -2.56**   |
| 14    | 0.265     | 48.49     | 51.29     | -2.80**   |
| 15    | 3.438     | 43.04     | 46.00     | -2.96**   |
| 16    | 0.304     | 47.16     | 50.14     | -2.98**   |
| 17    | 0.299     | 47.28     | 50.28     | -3.00**   |
| 18    | 0.530     | 42.75     | 46.00     | -3.25     |
| 19    | 0.273     | 47.66     | 51.02     | -3.36**   |
| 20    | 3.365     | 42.54     | 46.00     | -3.46**   |
| 21    | 0.440     | 43.23     | 47.06     | -3.83     |
| 22    | 0.471     | 42.54     | 46.49     | -3.95     |
| 23    | 0.310     | 45.84     | 49.97     | -4.13**   |
| 24    | 4.272     | 41.84     | 46.00     | -4.16     |
| 25    | 2.995     | 41.84     | 46.00     | -4.16     |
| 26    | 2.916     | 41.84     | 46.00     | -4.16     |
| 27    | 0.513     | 41.75     | 46.00     | -4.25     |
| 28    | 2.855     | 41.74     | 46.00     | -4.26     |
| 29    | 0.329     | 45.18     | 49.48     | -4.30**   |
| 30    | 2.179     | 41.64     | 46.00     | -4.36     |
| 31    | 0.466     | 42.14     | 46.58     | -4.44     |
| 32    | 0.317     | 45.32     | 49.79     | -4.47**   |
| 33    | 0.339     | 44.75     | 49.22     | -4.47**   |
| 34    | 0.502     | 41.35     | 46.00     | -4.65     |
| 35    | 3.192     | 41.24     | 46.00     | -4.76     |
| 36    | 0.400     | 43.02     | 47.86     | -4.83     |
| 37    | 0.419     | 42.63     | 47.46     | -4.83     |
| 38    | 0.858     | 41.04     | 46.00     | -4.96     |
| 39    | 0.362     | 43.71     | 48.69     | -4.98     |
| 40    | 0.538     | 40.95     | 46.00     | -5.05     |
| 41    | 4.408     | 40.94     | 46.00     | -5.06     |
| 42    | 3.107     | 40.94     | 46.00     | -5.06     |
| 43    | 0.679     | 40.84     | 46.00     | -5.16     |
| 44    | 0.580     | 40.74     | 46.00     | -5.26     |
| 45    | 0.605     | 40.54     | 46.00     | -5.46     |
| 46    | 2.514     | 40.54     | 46.00     | -5.46     |
| 47    | 2.722     | 40.44     | 46.00     | -5.56     |
| 48    | 0.589     | 40.34     | 46.00     | -5.66     |
| 49    | 0.431     | 41.53     | 47.24     | -5.71     |

\*\* Please See Average Reading on Previous Graph and Following Data Sheet

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

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03/25/15 09:07:25

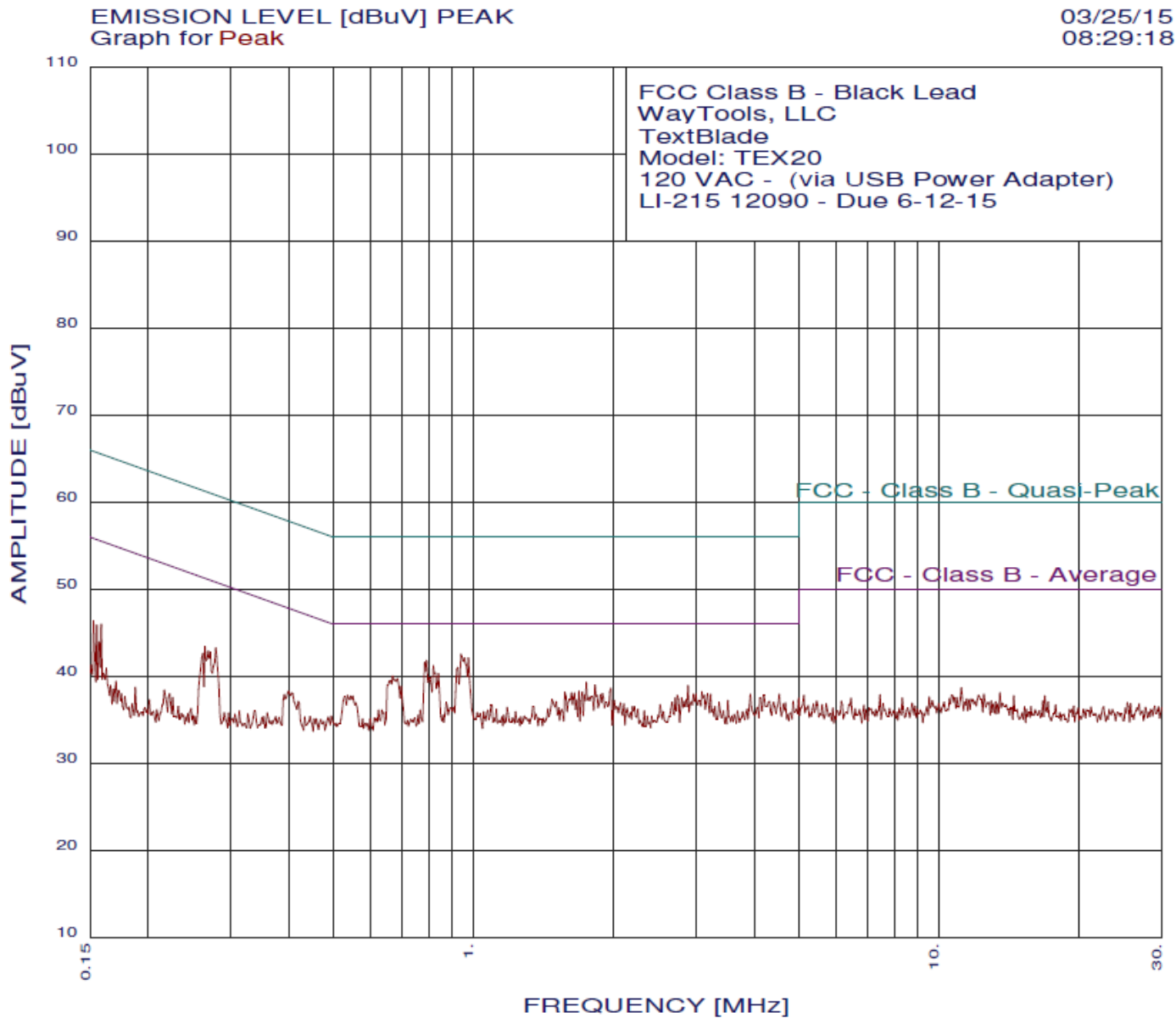
FCC Class B - White Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via Laptop Computer)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

-----  
32 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 3.924     | 32.49     | 46.00     | -13.51    |
| 2     | 3.781     | 32.12     | 46.00     | -13.88    |
| 3     | 3.585     | 31.95     | 46.00     | -14.05    |
| 4     | 3.644     | 31.90     | 46.00     | -14.10    |
| 5     | 4.137     | 31.44     | 46.00     | -14.56    |
| 6     | 3.456     | 31.20     | 46.00     | -14.80    |
| 7     | 3.702     | 31.17     | 46.00     | -14.83    |
| 8     | 3.841     | 31.11     | 46.00     | -14.89    |
| 9     | 4.008     | 30.79     | 46.00     | -15.21    |
| 10    | 3.529     | 30.31     | 46.00     | -15.69    |
| 11    | 4.050     | 30.20     | 46.00     | -15.80    |
| 12    | 3.311     | 30.20     | 46.00     | -15.80    |
| 13    | 3.401     | 30.07     | 46.00     | -15.93    |
| 14    | 0.201     | 36.11     | 53.58     | -17.47    |
| 15    | 0.267     | 32.31     | 51.20     | -18.89    |
| 16    | 0.189     | 34.98     | 54.06     | -19.08    |
| 17    | 0.186     | 34.65     | 54.19     | -19.54    |
| 18    | 0.181     | 34.72     | 54.46     | -19.74    |
| 19    | 0.175     | 34.94     | 54.72     | -19.78    |
| 20    | 0.336     | 28.69     | 49.31     | -20.62    |
| 21    | 0.247     | 30.64     | 51.86     | -21.22    |
| 22    | 0.256     | 29.92     | 51.55     | -21.63    |
| 23    | 0.250     | 29.65     | 51.77     | -22.12    |
| 24    | 0.240     | 29.83     | 52.08     | -22.25    |
| 25    | 0.235     | 29.99     | 52.25     | -22.27    |
| 26    | 0.233     | 30.00     | 52.34     | -22.35    |
| 27    | 0.313     | 27.13     | 49.88     | -22.75    |
| 28    | 0.307     | 27.30     | 50.05     | -22.75    |
| 29    | 0.296     | 27.57     | 50.36     | -22.80    |
| 30    | 0.302     | 27.32     | 50.19     | -22.87    |
| 31    | 0.293     | 27.58     | 50.45     | -22.87    |
| 32    | 0.164     | 31.40     | 55.25     | -23.85    |

  
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03/25/15 08:29:18

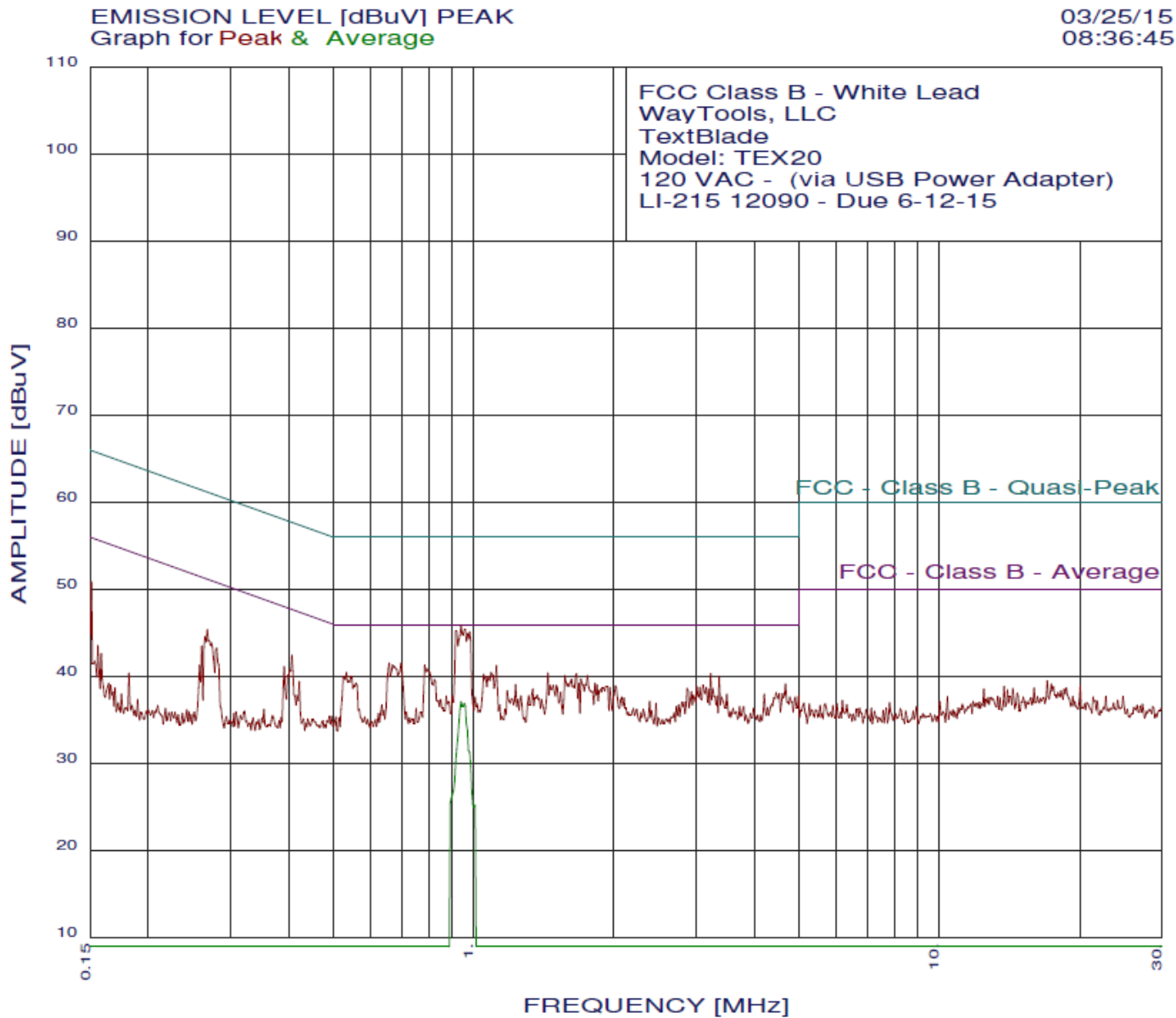
FCC Class B - Black Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via USB Power Adapter)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

-----  
50 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 0.939     | 42.54     | 46.00     | -3.46     |
| 2     | 0.974     | 42.14     | 46.00     | -3.86     |
| 3     | 0.792     | 41.84     | 46.00     | -4.16     |
| 4     | 0.783     | 41.64     | 46.00     | -4.36     |
| 5     | 0.818     | 41.24     | 46.00     | -4.76     |
| 6     | 0.924     | 41.04     | 46.00     | -4.96     |
| 7     | 0.839     | 40.34     | 46.00     | -5.66     |
| 8     | 0.669     | 40.04     | 46.00     | -5.96     |
| 9     | 1.745     | 39.32     | 46.00     | -6.68     |
| 10    | 1.820     | 39.02     | 46.00     | -6.98     |
| 11    | 2.885     | 38.94     | 46.00     | -7.06     |
| 12    | 0.698     | 38.84     | 46.00     | -7.16     |
| 13    | 1.971     | 38.64     | 46.00     | -7.36     |
| 14    | 0.279     | 43.29     | 50.85     | -7.56     |
| 15    | 1.680     | 38.31     | 46.00     | -7.69     |
| 16    | 3.091     | 38.24     | 46.00     | -7.76     |
| 17    | 1.708     | 38.21     | 46.00     | -7.79     |
| 18    | 1.569     | 38.20     | 46.00     | -7.80     |
| 19    | 0.265     | 43.44     | 51.29     | -7.84     |
| 20    | 1.646     | 38.11     | 46.00     | -7.89     |
| 21    | 1.620     | 38.10     | 46.00     | -7.90     |
| 22    | 3.175     | 38.04     | 46.00     | -7.96     |
| 23    | 1.889     | 38.03     | 46.00     | -7.97     |
| 24    | 4.528     | 37.95     | 46.00     | -8.05     |
| 25    | 3.924     | 37.95     | 46.00     | -8.05     |
| 26    | 3.226     | 37.94     | 46.00     | -8.06     |
| 27    | 2.995     | 37.94     | 46.00     | -8.06     |
| 28    | 4.204     | 37.85     | 46.00     | -8.15     |
| 29    | 0.535     | 37.84     | 46.00     | -8.16     |
| 30    | 2.736     | 37.84     | 46.00     | -8.16     |
| 31    | 0.269     | 42.93     | 51.15     | -8.23     |
| 32    | 4.137     | 37.55     | 46.00     | -8.45     |
| 33    | 2.796     | 37.54     | 46.00     | -8.46     |
| 34    | 2.707     | 37.54     | 46.00     | -8.46     |
| 35    | 4.980     | 37.45     | 46.00     | -8.55     |
| 36    | 1.472     | 37.39     | 46.00     | -8.61     |
| 37    | 1.663     | 37.31     | 46.00     | -8.69     |
| 38    | 0.262     | 42.65     | 51.38     | -8.72     |
| 39    | 3.511     | 37.24     | 46.00     | -8.76     |
| 40    | 2.002     | 37.24     | 46.00     | -8.76     |
| 41    | 4.851     | 37.15     | 46.00     | -8.85     |
| 42    | 4.408     | 37.05     | 46.00     | -8.95     |
| 43    | 3.365     | 37.04     | 46.00     | -8.96     |
| 44    | 2.665     | 37.04     | 46.00     | -8.96     |
| 45    | 0.872     | 37.04     | 46.00     | -8.96     |
| 46    | 4.672     | 36.95     | 46.00     | -9.05     |
| 47    | 2.066     | 36.94     | 46.00     | -9.06     |
| 48    | 2.100     | 36.84     | 46.00     | -9.16     |
| 49    | 2.514     | 36.74     | 46.00     | -9.26     |
| 50    | 1.094     | 36.65     | 46.00     | -9.35     |

  
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FCC Class B - White Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via USB Power Adapter)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

-----  
49 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 0.939     | 45.84     | 46.00     | -0.16**   |
| 2     | 0.919     | 45.24     | 46.00     | -0.76**   |
| 3     | 0.979     | 45.14     | 46.00     | -0.86**   |
| 4     | 0.658     | 41.54     | 46.00     | -4.46     |
| 5     | 0.698     | 41.54     | 46.00     | -4.46     |
| 6     | 0.669     | 41.34     | 46.00     | -4.66     |
| 7     | 0.783     | 41.34     | 46.00     | -4.66     |
| 8     | 1.118     | 41.25     | 46.00     | -4.75     |
| 9     | 0.151     | 50.87     | 55.95     | -5.09     |
| 10    | 0.406     | 42.42     | 47.72     | -5.30     |
| 11    | 1.089     | 40.45     | 46.00     | -5.55     |
| 12    | 0.532     | 40.45     | 46.00     | -5.55     |
| 13    | 1.441     | 40.38     | 46.00     | -5.62     |
| 14    | 3.226     | 40.34     | 46.00     | -5.66     |
| 15    | 1.663     | 40.31     | 46.00     | -5.69     |
| 16    | 1.049     | 40.24     | 46.00     | -5.76     |
| 17    | 0.267     | 45.38     | 51.20     | -5.82     |
| 18    | 1.754     | 40.11     | 46.00     | -5.89     |
| 19    | 1.569     | 40.10     | 46.00     | -5.90     |
| 20    | 3.365     | 40.04     | 46.00     | -5.96     |
| 21    | 1.699     | 39.71     | 46.00     | -6.29     |
| 22    | 1.820     | 39.22     | 46.00     | -6.78     |
| 23    | 1.680     | 39.21     | 46.00     | -6.79     |
| 24    | 4.672     | 39.14     | 46.00     | -6.86     |
| 25    | 0.391     | 41.12     | 48.03     | -6.91     |
| 26    | 1.230     | 39.06     | 46.00     | -6.94     |
| 27    | 3.107     | 39.04     | 46.00     | -6.96     |
| 28    | 1.840     | 39.02     | 46.00     | -6.98     |
| 29    | 1.504     | 38.99     | 46.00     | -7.01     |
| 30    | 1.480     | 38.99     | 46.00     | -7.01     |
| 31    | 2.013     | 38.94     | 46.00     | -7.06     |
| 32    | 3.011     | 38.84     | 46.00     | -7.16     |
| 33    | 1.939     | 38.83     | 46.00     | -7.17     |
| 34    | 3.059     | 38.74     | 46.00     | -7.26     |
| 35    | 1.960     | 38.73     | 46.00     | -7.27     |
| 36    | 3.260     | 38.64     | 46.00     | -7.36     |
| 37    | 2.870     | 38.64     | 46.00     | -7.36     |
| 38    | 1.338     | 38.57     | 46.00     | -7.43     |
| 39    | 3.192     | 38.54     | 46.00     | -7.46     |
| 40    | 0.280     | 43.24     | 50.81     | -7.57     |
| 41    | 1.178     | 38.36     | 46.00     | -7.64     |
| 42    | 2.932     | 38.24     | 46.00     | -7.76     |
| 43    | 1.536     | 38.19     | 46.00     | -7.81     |
| 44    | 4.456     | 38.14     | 46.00     | -7.86     |
| 45    | 0.260     | 43.50     | 51.42     | -7.92     |
| 46    | 0.421     | 39.43     | 47.42     | -7.99     |
| 47    | 4.204     | 37.94     | 46.00     | -8.06     |
| 48    | 3.492     | 37.94     | 46.00     | -8.06     |
| 49    | 1.367     | 37.88     | 46.00     | -8.12     |

-----

\*\* Please See Average Reading on Previous Graph and Following Data Sheet

**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

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03/25/15 08:36:45

FCC Class B - White Lead  
WayTools, LLC  
TextBlade  
Model: TEX20  
120 VAC - (via USB Power Adapter)  
LI-215 12090 - Due 6-12-15  
Test Engineer: James Ross

-----  
3 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

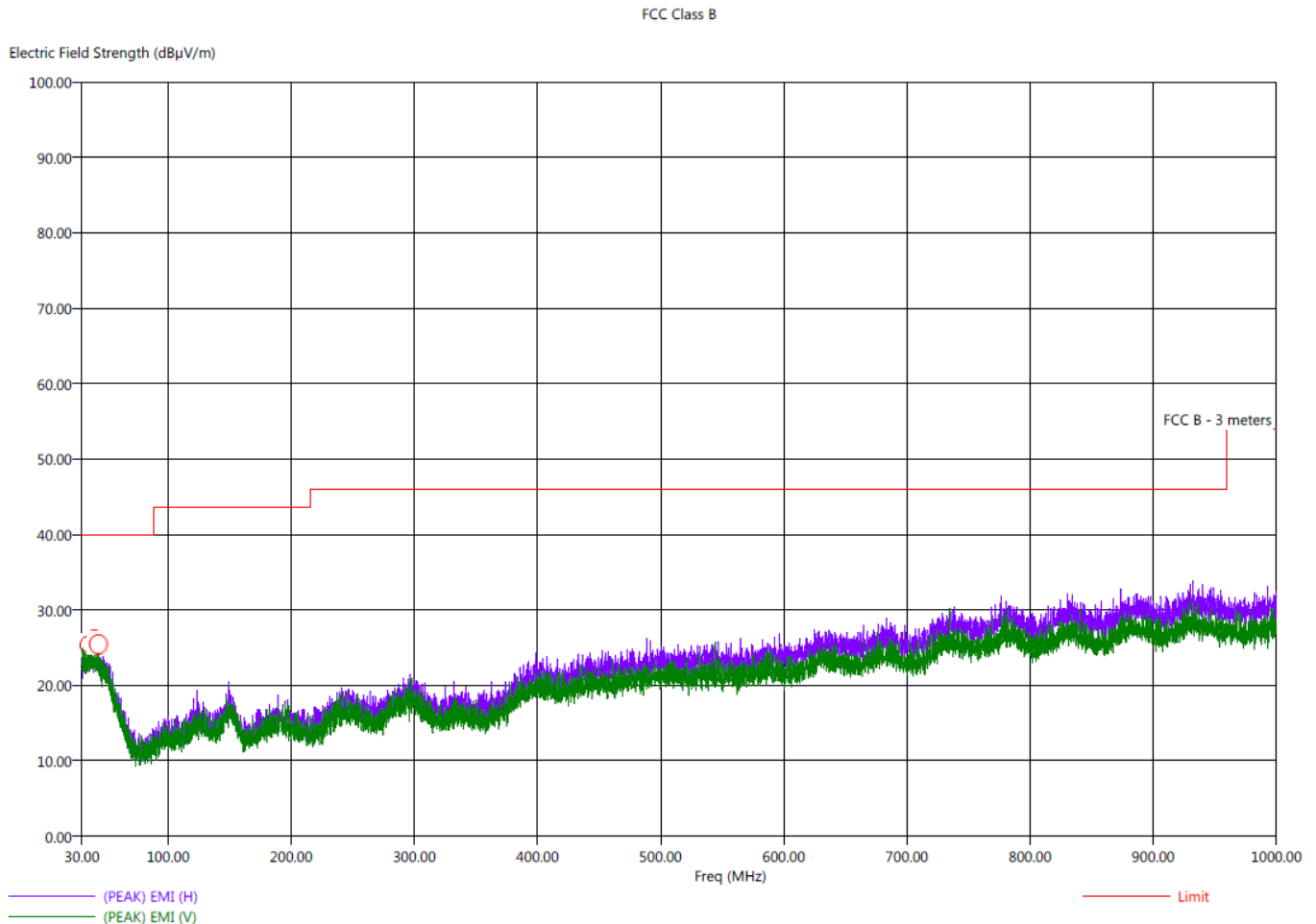
| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|-------|-----------|-----------|-----------|-----------|
| 1     | 0.939     | 37.09     | 46.00     | -8.91     |
| 2     | 0.953     | 36.93     | 46.00     | -9.07     |
| 3     | 1.006     | 25.23     | 46.00     | -20.77    |

-----



Title: Pre-Scan - 30-1000 MHz - FCC Class B  
File: Agilent - Radiated Pre-Scan #2 30-1000 MHz - FCC Class B 3-25-15.set  
Operator: James Ross  
EUT Type: TextBlade  
EUT Condition: The EUT is continuously charging during the test via the laptop computer  
Comments: Customer: Waytools, LLC  
Model: TEX20

3/25/2015 10:55:14 AM  
Sequence: Preliminary Scan



Title: Radiated Final - 30-1000 MHz - FCC Class B  
 File: Agilent - Radiated Final Scan #2 30-1000 MHz - FCC Class B 3-25-15.set  
 Operator: James Ross  
 EUT Type: TextBlade  
 EUT Condition: The EUT is continuously charging during the test via the laptop computer  
 Comments: Customer: Waytools, LLC  
 Model: TEX20

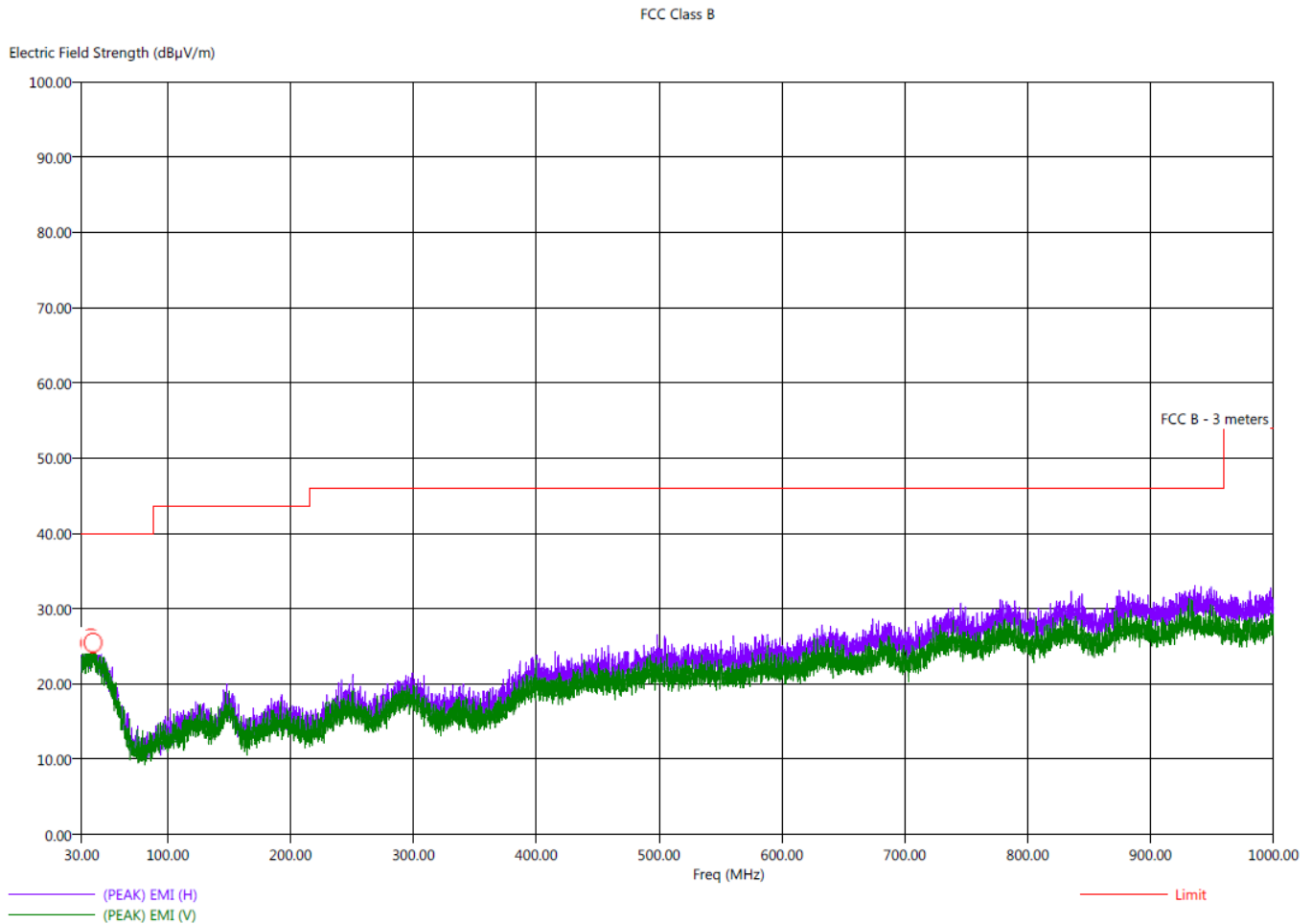
3/25/2015 11:04:59 AM  
 Sequence: Final Measurements

FCC Class B 30 MHz - 1 GHz

| 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) | Ttbl Aql<br>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 35.80         | H   | 35.43                  | 31.06                | -4.57                 | -8.94               | 40.00             | 23.81              | 0.40          | 356.75            | 191.43         |
| 36.80         | H   | 36.26                  | 31.10                | -3.74                 | -8.90               | 40.00             | 23.91              | 0.41          | 296.00            | 255.97         |
| 39.00         | H   | 35.72                  | 31.29                | -4.28                 | -8.71               | 40.00             | 24.09              | 0.42          | 199.50            | 399.91         |
| 39.80         | H   | 36.73                  | 31.50                | -3.27                 | -8.50               | 40.00             | 24.17              | 0.43          | 89.75             | 159.49         |
| 40.20         | H   | 35.80                  | 31.47                | -4.20                 | -8.53               | 40.00             | 24.12              | 0.43          | 168.50            | 352.38         |
| 43.50         | V   | 34.26                  | 30.48                | -5.74                 | -9.52               | 40.00             | 23.03              | 0.46          | 186.00            | 255.97         |

Title: Pre-Scan - 30-1000 MHz - FCC Class B  
File: Agilent - Radiated Pre-Scan 30-1000 MHz - FCC Class B 3-25-15.set  
Operator: James Ross  
EUT Type: TextBlade  
EUT Condition: The EUT is continuously charging during the test via the 12 Watt USB Power Adapter  
Comments: Customer: Waytools, LLC  
Model: TEX20

3/25/2015 9:57:36 AM  
Sequence: Preliminary Scan



Title: Radiated Final - 30-1000 MHz - FCC Class B  
File: Agilent - Radiated Final Scan 30-1000 MHz - FCC Class B 3-25-15.set  
Operator: James Ross  
EUT Type: TextBlade  
EUT Condition: The EUT is continuously charging during the test via the 12 Watt USB Power Adapter  
Comments: Customer: Waytools, LLC  
Model: TEX20

3/25/2015 10:17:54 AM  
Sequence: Final Measurements

## FCC Class B 30 MHz - 1 GHz

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dB $\mu$ V/m) | (QP) EMI<br>(dB $\mu$ V/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dB $\mu$ V/m) | Transducer<br>(dB) | Cable<br>(dB) | Ttbl Aql<br>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------------|----------------------------|-----------------------|---------------------|-------------------------|--------------------|---------------|-------------------|----------------|
| 36.50         | H   | 35.88                        | 31.11                      | -4.12                 | -8.89               | 40.00                   | 23.86              | 0.40          | 343.25            | 287.67         |
| 37.60         | H   | 35.31                        | 31.21                      | -4.69                 | -8.79               | 40.00                   | 23.95              | 0.41          | 212.00            | 239.91         |
| 38.10         | H   | 35.70                        | 31.30                      | -4.30                 | -8.70               | 40.00                   | 24.03              | 0.42          | 243.00            | 223.61         |
| 38.70         | H   | 35.36                        | 31.27                      | -4.64                 | -8.73               | 40.00                   | 24.07              | 0.42          | 194.25            | 191.67         |
| 39.30         | V   | 35.57                        | 31.41                      | -4.43                 | -8.59               | 40.00                   | 24.13              | 0.42          | 239.25            | 143.61         |
| 40.40         | H   | 36.07                        | 31.22                      | -3.93                 | -8.78               | 40.00                   | 24.05              | 0.43          | 128.25            | 271.91         |