FCC PART 15, SUBPART B and C TEST REPORT

for

CONCEAL SYSTEM

MODEL: USS-AMCONCEALED

Prepared for

UNIVERSAL SURVEILLANCE SYSTEMS, LLC 11172 ELM AVENUE RANCHO CUCAMONGA, CALFORNIA 91730

| Prepared by: | |
|---------------|---------------|
| | KYLE FUJIMOTO |
| Approved by:_ | |
| | JAMES ROSS |

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

DATE: AUGUST 18, 2015

| | REPORT | | APPENDICES | | | | TOTAL |
|-------|--------|-----------|------------|---|----|----|-------|
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Report Number: **B50817A1 FCC Part 15 Subpart B** and **FCC Section 15.209** Test Report *Conceal System*

Model: USS-AMCONCEALED

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: Conceal System

Model: USS-AMCONCEALED

S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Customer: Universal Surveillance Systems, LLC

11172 Elm Avenue

Rancho Cucamonga, California, 91730

Test Date: August 17, 2015

Test Specifications: Emissions requirements

CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, and 15.209.

Test Procedure: ANSI C63.4

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

SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION | RESULTS |
|------|--|--|
| 1 | Spurious Radiated RF Emissions, 10 kHz – 1,000 MHz (Transmitter and Digital portion) | Complies with the Class A limits of CFR Title 47, Part 15, Subpart B; and Subpart C, Sections 15.205 and 15.209. |
| 2 | Conducted RF Emissions, 150 kHz to 30 MHz | Complies with the Class A limits of CFR Title 47, Part 15, Subpart B; and Subpart C Section 15.207. |

Report Number: **B50817A1 FCC Part 15 Subpart B** and **FCC Section 15.209** Test Report Conceal System

Model: USS-AMCONCEALED

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the Conceal System, Model: USS-AMCONCEALED. 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 A** specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, and 15.209.

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

Universal Surveillance Systems, LLC

Marc Trincale Product Manager

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received on August 17, 2015.

2.5 Disposition of the Test Sample

The test sample was returned to Universal Surveillance Systems, LLC on August 17, 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
Social 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, Part 15 Subpart C | FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators |
| FCC Title 47, Part 15 Subpart B | FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators |
| ANSI C63.4 2009 | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz |



4.

DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - Emissions

The Conceal System, Model: USS-AMCONCEALED (EUT) was connected to the antenna and power supply via its upper loop and lower loop; and power ports, respectively.

The EUT was continuously transmitting at 58 kHz. The Comm port is only used for diagnostic purposes to setup the system prior to normal operation.

This specific system will never use the Red-C, Grey-C, Buzzer, Light-A, and Relay ports.

The final radiated data as well as the conducted 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

- <u>Cable 1</u> This is a 2-meter unshielded cable connecting the EUT to the power supply. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 1-meter.
- <u>Cable 2</u> This is a 1.5-meter unshielded cable connecting the EUT's lower loop port to the antenna. The cable has a 5-pin terminal block at the EUT end and is hard wired into the antenna.
- <u>Cable 3</u> This is a 1.5-meter unshielded cable connecting the EUT's upper loop port to the antenna. The cable has a 5-pin terminal block at the EUT end and is hard wired into the antenna.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|----------------|--------------|-----------------|------------------|------------------|
| CONCEAL SYSTEM | UNIVERSAL | | | |
| (EUT) | SURVEILLANCE | USS-AMCONCEALED | N/A | X2TUSS-CONCEALED |
| (EUI) | SYSTEMS, LLC | | | |

5.2 Emissions Test Equipment

| EQUIPMENT TYPE | MANU- FACTURER | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE | CAL, CYCLE | | |
|---|---------------------------|-----------------|------------------|---------------------|------------|--|--|
| RF RADIATED EMISSIONS TEST EQUIPMENT | | | | | | | |
| Spectrum Analyzer – Main Section | Hewlett Packard | 8566B | 3638A08768 | May 27, 2015 | 1 Year | | |
| Spectrum Analyzer – Display Section | Hewlett Packard | 85662A | 2648A15285 | May 27, 2015 | 1 Year | | |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2430A00424 | May 27, 2015 | 1 Year | | |
| Monitor | Hewlett Packard | D5258A | TW74500641 | N/A | N/A | | |
| Computer | Hewlett Packard | 4530 | US91912319 | N/A | N/A | | |
| CombiLog Antenna | Com-Power | AC-220 | 61060 | May 20, 2014 | 2 Year | | |
| Loop Antenna | Com-Power | AL-130 | 17089 | February 6, 2015 | 2 Year | | |
| Preamplifier | Com-Power | PA-103 | 1582 | December 29, 2014 | 1 Year | | |
| Turntable | Com-Power | TT-100 | N/A | N/A | N/A | | |
| Antenna Mast | Com-Power | AM-100 | N/A | N/A | N/A | | |
| Compatible Electronics Radiated Test | Compatible Electronics | 2011 | N/A | N/A | N/A | | |
| Compatible Electronics Emissions Program | Compatible Electronics | 3.0 | N/A | N/A | N/A | | |
| LISN | Com-Power | LI-215 | 12082 | June 9, 2015 | 1 Year | | |
| LISN | Com-Power | LI-215 | 12090 | June 9, 2015 | 1 Year | | |
| Transient Limiter | Com-Power | 252A910 | 1 | October 10, 2014 | 1 Year | | |

Model: USS-AMCONCEALED

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 grounded to earth ground via the safey ground of the AC power cable.

Model: USS-AMCONCEALED

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 A

The spectrum analyzer was used as a measuring meter. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

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

| FREQUENCY RANGE | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER |
|--------------------|---------------------------------------|------------------|
| 10 kHz to 150 kHz | 200 Hz | Loop Antenna |
| 150 kHz to 30 MHz | 9 kHz | Loop Antenna |
| 30 MHz to 1000 MHz | 120 kHz | CombiLog 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. 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 loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT (except for the fundamental) was tested at a 10-meter test distance to obtain the final test data.

Model: USS-AMCONCEALED

Radiated Emissions (Spurious and Harmonics) Test – Lab A (con't)

For the fundamental the EUT was tested at both a 10-meter test distance and a 15-meter test distance to obtain "P".

P is the roll-off multiplier used to determine the correct spec limit at 10 meters based on the following formula: [(P*20) Log (spec test distance / actual test distance)] + spec limit

P itself is determined by the following formula:

P = [Level (at 10 Meters) – Level (at 15 Meters)] / 20 Log (15 Meters / 10 Meters)

The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class A** (**digital portion**) limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, and 15.209 (transmitter portion) for radiated emissions.

Model: USS-AMCONCEALED

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.

Note: Due to the fact the transmitter portion limits for conducted emissions (FCC 15.207) have a lower limit than the digital portion limits for conducted emissions (Class A), the data was taken with the lower limits (FCC 15.207).

Test Results:

The EUT complies with the **Class A** (**digital portion**) limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207 (**transmitter portion**) for conducted emissions.

FCC Part 15 Subpart B and FCC Section 15.209 Test Report

Conceal System

Model: USS-AMCONCEALED

7.1.4 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS

Conceal System, Model: USS-AMCONCEALED

| Frequency MHz | QP Corrected Reading* dBuV | Specification Limit dBuV | Delta (Cor. Reading – Spec. Limit) dB |
|------------------|----------------------------------|-----------------------------|---|
| 83.092 (V) | 35.74 (QP) | 39.10 | -3.36 |
| 36.989 (H) | 34.37 | 39.10 | -4.73 |
| 85.040 (V) | 34.36 (QP) | 39.10 | -4.74 |
| 0.174705 (H) | 76.54 (Average) | 81.84 | -5.303 |
| 73.069 (V) | 33.28 (QP) | 39.10 | -5.82 |
| 61.732 (V) | 32.25 (QP) | 39.10 | -6.85 |

Table 2.0 CONDUCTED EMISSION RESULTS

Conceal System, Model: USS-AMCONCEALED

| Frequency MHz | Average Corrected Reading* dBuV | Average Specification Limit dBuV | Delta (Cor. Reading – Spec. Limit) dB |
|------------------|---------------------------------------|--|---|
| 5.715 (WL) | 46.35 | 50.00 | -3.65 |
| 3.294 (BL) | 41.05 | 46.00 | -4.95 |
| 3.075 (BL) | 40.85 | 46.00 | -5.15 |
| 3.175 (BL) | 40.55 | 46.00 | -5.45 |
| 5.567 (BL) | 44.35 | 50.00 | -5.65 |
| 0.634 (BL) | 39.64 | 46.00 | -6.36 |

Notes:

(H) Horizontal (V) Vertical (BL)Black Lead

(WL) White Lead

(QP)Quasi Peak

* The complete emissions data is given in Appendix E of this report.

Model: USS-AMCONCEALED

8. CONCLUSIONS

The Conceal System, Model: USS-AMCONCEALED, as tested, meets all of the <u>Class A specification limits defined in CFR Title 47</u>, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.





APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS

Report Number: **B50817A1 FCC Part 15 Subpart B** and **FCC Section 15.209** Test Report *Conceal System*

Model: USS-AMCONCEALED

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**

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



VCCI Support member: Please visit http://www.vcci.jp/vcci_e/



FCC Listing, from FCC OET site
FCC test lab search https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm



Compatible Electronics IC listing can be found at: http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home

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 15.209 specifications.

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

No modifications were made to the EUT during the testing.



APPENDIX C

ADDITIONAL MODELS



ADDITIONAL MODELS COVERED **UNDER THIS REPORT**

USED FOR THE PRIMARY TEST Conceal System

Model: USS-AMCONCEALED

S/N: N/A

There were no additional models covered under this report.



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Conceal System

Model: USS-AMCONCEALED

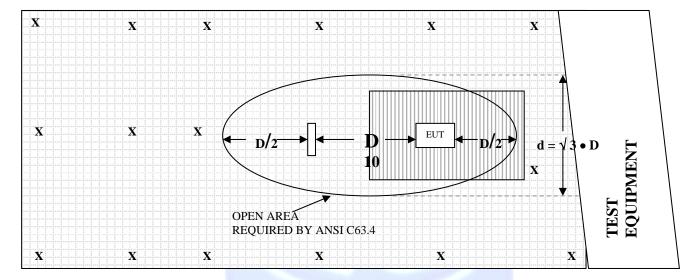
APPENDIX D

DIAGRAMS AND CHARTS



FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE

OPEN LAND > 15 METERS



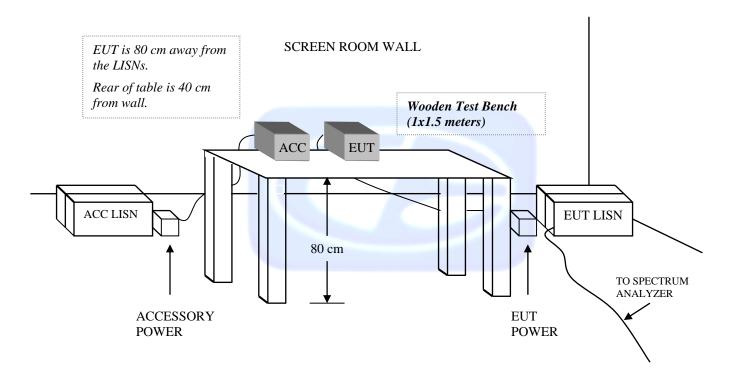
OPEN LAND > 15 METERS

X = GROUND RODS

= GROUND SCREEN

D = TEST DISTANCE (meters)

FIGURE 2: CONDUCTED EMISSIONS TEST SETUP



COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

| FREQUENCY (MHz) | MAGNETIC | ELECTRIC (JP/) |
|--------------------|---------------------|----------------|
| (MHZ) | (dB/m) -33.18 | (dB/m) |
| 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 -41.52 | 10.30 |
| 0.2 0.3 | -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 |
| 30 | - 1 J.10 | 0.32 |





COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: MAY 20, 2014

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|--------------------|-------------|--------------------|-------------|
| 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 PA-103

PREAMPLIFIER

S/N: 1582

CALIBRATION DATE: DECEMBER 29, 2014

| FREQUENCY | FACTOR | FREQUENCY | FACTOR |
|-----------|--------|-----------|--------|
| (MHz) | (dB) | (MHz) | (dB) |
| 30 | 32.60 | 300 | 32.10 |
| 40 | 32.60 | 350 | 31.90 |
| 50 | 32.50 | 400 | 31.60 |
| 60 | 32.40 | 450 | 31.60 |
| 70 | 32.40 | 500 | 31.50 |
| 80 | 32.40 | 550 | 31.50 |
| 90 | 32.30 | 600 | 31.50 |
| 100 | 32.20 | 650 | 31.50 |
| 125 | 32.20 | 700 | 31.30 |
| 150 | 32.30 | 750 | 31.30 |
| 175 | 32.30 | 800 | 31.30 |
| 200 | 32.10 | 850 | 31.00 |
| 225 | 32.20 | 900 | 31.00 |
| 250 | 32.10 | 950 | 31.20 |
| 275 | 32.10 | 1000 | 30.80 |

FCC Part 15 Subpart B and FCC Section 15.209 Test Report

Conceal System Model: USS-AMCONCEALED



FRONT VIEW

UNIVERSAL SURVEILLANCE SYSTEMS, LLC
CONCEAL SYSTEM
MODEL: USS-AMCONCEALED
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 30 MHz



FCC Part 15 Subpart B and FCC Section 15.209 Test Report

Conceal System Model: USS-AMCONCEALED



REAR VIEW

UNIVERSAL SURVEILLANCE SYSTEMS, LLC
CONCEAL SYSTEM
MODEL: USS-AMCONCEALED
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 30 MHz



FCC Part 15 Subpart B and FCC Section 15.209 Test Report

Conceal System Model: USS-AMCONCEALED



FRONT VIEW

UNIVERSAL SURVEILLANCE SYSTEMS, LLC
CONCEAL SYSTEM
MODEL: USS-AMCONCEALED
FCC SUBPART B AND C – RADIATED EMISSIONS – 30 MHz to 1 GHz

Model: USS-AMCONCEALED



REAR VIEW

UNIVERSAL SURVEILLANCE SYSTEMS, LLC
CONCEAL SYSTEM
MODEL: USS-AMCONCEALED
FCC SUBPART B AND C – RADIATED EMISSIONS – 30 MHz to 1 GHz

Conceal System

Model: USS-AMCONCEALED



FRONT VIEW

UNIVERSAL SURVEILLANCE SYSTEMS, LLC
CONCEAL SYSTEM
MODEL: USS-AMCONCEALED
FCC SUBPART B AND C – CONDUCTED EMISSIONS

Model: USS-AMCONCEALED



REAR VIEW

UNIVERSAL SURVEILLANCE SYSTEMS, LLC
CONCEAL SYSTEM
MODEL: USS-AMCONCEALED
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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APPENDIX E

DATA SHEETS

Conceal System

Model: USS-AMCONCEALED

RADIATED EMISSIONS

DATA SHEETS



Test Location : Compatible Electronics Page: 1/1

Customer : Universal Surveillance Systems Date: 08 / 17 / 2015

Manufacturer : Universal Surveillance Systems Time: 11:52:17 AM

Eut name : Conceal System Lab: A

Model : USS-AMCONEALED Test Distance : 10.00

Serial # : N/A Specification : FCC A

Distance correction factor (20 * log(test/spec)): 0.00

Test Mode: Test Type: Radiated Emissions Qual

Test Renge: 30 MHz to 1 GHz (Vertical and Horizontal)

Clocks: 20 MHz and 50 MHz Tested By: Kyle Fujimoto

| Pol | Freq | Rdng | Cable | Ant | Amp | Cor'd | Limit | Delta |
|----------|--------------------|----------------|------------|--------------|------------|-----------------|-------------------|-------------|
| | MHz | dBuV | loss dB | factor dB | gain dB | rdg = R dBuV | = L dBuV/n | R-L n dB |
| | MINZ | dbuv | dB | dB | dB | dBuv | dBu v/II | i db |
| 1H | 36.989 | 42.30 | 0.77 | 23.90 | 32.60 | 34.37 | 39.10 | -4.73 |
| 2H | 61.598 | 34.80 | 1.12 | 17.07 | 32.40 | 20.59 | 39.10 | -18.51 |
| 3V | 61.732 | 53.80 | 1.12 | 17.00 | 32.40 | 39.52 | 39.10 | 0.42 |
| 4V | 61.732Qp | 46.53 | 1.12 | 17.00 | 32.40 | 32.25 | 39.10 | -6.85 |
| 5H | 63.392 | 42.90 | 1.13 | 16.14 | 32.40 | 27.77 | 39.10 | -11.33 |
| 11-22/22 | Umwas ensembles | 1200 | 2 -27.0 | 202210202 | 21271892 | g systems | F2892261 (0.1928) | |
| 6H | 72.935 | 33.50 | 1.26 | 12.38 | 32.40 | 14.74 | 39.10 | -24.36 |
| 7V | 73.050 | 57.50 | 1.26 | 12.36 | 32.40 | 38.73 | 39.10 | -0.37 |
| 8V | 73.069Qp | 52.06 | 1.26 | 12.36 | 32.40 | 33.28 | 39.10 | -5.82 |
| 9H | 82.906 | 39.70 | 1.43 | 11.77 | 32.37 | 20.53 | 39.10 | -18.57 |
| 10V | 83.090 | 58.20 | 1.43 | 11.79 | 32.37 | 39.05 | 39.10 | -0.05 |
| 11V | 83.092Qp | 54.89 | 1.43 | 11.79 | 32.37 | 35.74 | 39.10 | -3.36 |
| 12V | 85.032 Op | 57.00 | 1.45 | 11.90 | 32.35 | 38.00 | 39.10 | -1.10 |
| 13V | 85.040Qp | 53.36 | 1.45 | 11.90 | 32.35 | 34.36 | 39.10 | -4.74 |
| 14H | 110.673 | 37.90 | 1.40 | 14.53 | 32.20 | 21.63 | 43.50 | -21.87 |
| 15H | 129.114 | 42.80 | 1.45 | 15.20 | 32.22 | 27.23 | 43.50 | -16.27 |
| 1311 | 129.114 | 42.00 | 1.45 | 13.20 | 32.22 | 27.23 | 73.30 | -10.27 |
| 16V | 139.352 | 49.50 | 1.57 | 13.70 | 32.26 | 32.51 | 43.50 | -10.99 |
| 17H | 155.718 | 39.00 | 1.68 | 15.36 | 32.30 | 23.73 | 43.50 | -19.77 |
| 18V | 165.952 | 43.20 | 1.64 | 14.48 | 32.30 | 27.01 | 43.50 | -16.49 |
| 19V | 187.052 | 46.30 | 1.74 | 14.79 | 32.20 | 30.63 | 43.50 | -12.87 |
| 20V | 210.425 | 45.50 | 1.77 | 14.82 | 32.14 | 29.95 | 43.50 | -13.55 |
| 2111 | 262 024 | 28.20 | 2.71 | 16.83 | 22.10 | 25.72 | 16 10 | 20.67 |
| 21H | 263.934 305.238 | 38.30 38.10 | 2.71 | 16.82 | 32.10 | 25.73 | 46.40 | -20.67 |
| 22H | | | 3.12 | 17.66 | 32.08 | 26.80 | 46.40 | -19.60 |
| 23H | 331.814 | 39.10 | 3.23 | 16.44 | 31.97 | 26.79 | 46.40 | -19.61 |
| 24V | 386.470 | 37.00 | 3.59 | 18.74 | 31.68 | 27.65 | 46.40 | -18.75 |
| 25H | 433.091 | 36.60 | 3.96 | 20.23 | 31.60 | 29.20 | 46.40 | -17.20 |
| 26H | 541.541 | 32.00 | 4.75 | 21.52 | 31.50 | 26.77 | 46.40 | -19.63 |
| | | | | | | | | |



Report Number: **B50817A1 FCC Part 15 Subpart B** and **FCC Section 15.209** Test Report Conceal System

Model: USS-AMCONCEALED

FCC 15.209

Universal Surveillance Systems

Conceal System

Date: 08/17/2015

Lab: A

Model: USS-AMCONCEALED Tested By: Kyle Fujimoto

Transmit Mode

Test Distance: 10 Meters (Except Where Noted in Comments)

Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit

Corrected Spec Limit at 10 Meters for Fundamental = [(P*20) Log (spec test dist./actual test dist.)] + spec limit

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|----------------|-----------------|-----------|---------------------------------|---------|-----------------------|-----------------------|-------------------------|------------------------|
| 58.235 | 114.1 | H | | | Peak | 1 | 90 | Actual Reading @ 10m |
| | | | | | | | | |
| 58.235 | 102.8 | Н | - | | Peak | 1 | 90 | Actual Reading @ 15m |
| | | | | | | | | |
| 58.235 | 114.1 | Н | 127.09 | -12.987 | Peak | 1 | 90 | Actual Reading @ 10m |
| | | | | | | | | Corrected using (P*20) |
| | | | | | | | allo a redica | |
| 116.47 | 66.1 | Н | 85.36 | -19.265 | Peak | 1 | 90 | |
| | | | | | | | | |
| 174.705 | 82 | Н | 81.84 | 0.15703 | Peak | 1 | 90 | |
| 174.705 | 76.54 | Н | 81.84 | -5.303 | Avg | 1 | 90 | |
| | | | | | | | | |
| 232.94 | 51.1 | Н | 79.34 | -28.244 | Peak | 1 | 90 | |
| | | | | | | | | |
| 291.175 | 59.6 | Н | 77.41 | -17.806 | Peak | 1 | 90 | |
| 040.44 | F4 7 | | 75.00 | 04.400 | Daal | 4 | 00 | |
| 349.41 | 51.7 | Н | 75.82 | -24.122 | Peak | 1 | 90 | |
| 407.645 | 53.5 | Н | 74.48 | -20.983 | Peak | 1 | 90 | |
| 407.045 | 55.5 | 11 | 74.40 | -20.903 | reak | l l | 90 | |
| 465.88 | 47.4 | Н | 73.32 | -25.924 | Peak | 1 | 90 | |
| 403.00 | 77.7 | 11 | 10.02 | -20.024 | 1 Can | ı | 30 | |
| 524.115 | 50.4 | Н | 52.30 | -1.9005 | Peak | 1 | 90 | |
| 524.115 | 44.14 | Н | 52.30 | -8.1605 | QP | 1 | 90 | No Emissions Detected |
| | | | | | | | | Above 582.35 kHz to |
| 582.35 | 45.2 | Н | 51.39 | -6.1854 | Peak | 1 | 90 | 30 MHz |
| | | | | | | | | |

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]

Where P is the roll-off exponent. P is found as follows:

P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)

@ 15 Meters - P =((114.1-102.8) / 20 Log (15/10) = 3.20856358

FCC 15.209

Universal Surveillance Systems Date: 08/17/2015

Conceal System Lab: A

Model: USS-AMCONCEALED Tested By: Kyle Fujimoto

Transmit Mode - Maximum Power - Both Antennas Transmitting (Worst Case) Test Distance: 10 Meters (Except Where Noted in Comments)

Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit

Corrected Spec Limit at 10 Meters for Fundamental = [(P*20) Log (spec test dist./actual test dist.)] + spec limit

| Freq. | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---------|-----------------|-----------|---------------------------------|---------|-----------------------|-----------------------|-------------------------|------------------------|
| 58.235 | 122 | V | | | Peak | 1 | 180 | Actual Reading @ 10m |
| | | | | | | | 7 | |
| 58.235 | 110.2 | V | | | Peak | 1 | 180 | Actual Reading @ 15m |
| | | | | | | | | |
| 58.235 | 122 | V | 131.28 | -9.2824 | Peak | 1 | 180 | Actual Reading @ 10m |
| | | | | | | | | Corrected using (P*20) |
| | | | | | | | | |
| 116.47 | 65.9 | V | 85.36 | -19.465 | Peak | 1 | 135 | |
| | | | | | | | | |
| 174.705 | 75.3 | V | 81.84 | -6.543 | Peak | 1 | 0 | |
| | | | | | | | | |
| 232.94 | 61.5 | V | 79.34 | -17.844 | Peak | 1 | 135 | |
| | | | | | | | | |
| 291.175 | 74.8 | V | 77.41 | -2.606 | Peak | 1 | 0 | |
| 291.175 | 70.25 | V | 77.41 | -7.156 | Avg | 1 | 0 | |
| | | | | | | | | |
| 349.41 | 63.6 | V | 75.82 | -12.222 | Peak | 1 | 135 | |
| | | | | | | | | |
| 407.645 | 68.8 | V | 74.48 | -5.6834 | Peak | 1 | 155 | |
| | | | | | | | | |
| 465.88 | 59.5 | V | 73.32 | -13.824 | Peak | 1 | 175 | |
| | | | | | | | | |
| 524.115 | 50.9 | V | 52.30 | -1.4005 | Peak | 1 | 185 | No Emissions Detected |
| 524.115 | 44.36 | V | 52.30 | -7.9405 | QP | 1 | 185 | Above 582.35 kHz to |
| | | | | | | | | 30 MHz |
| 582.35 | 47.9 | V | 51.39 | -3.4854 | Peak | 1 | 195 | |
| | | | | | | | | |

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]

Where P is the roll-off exponent. P is found as follows:

P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)

@ 15 Meters - P =((122-110.2) / 20 Log (15/10) = 3.3505354

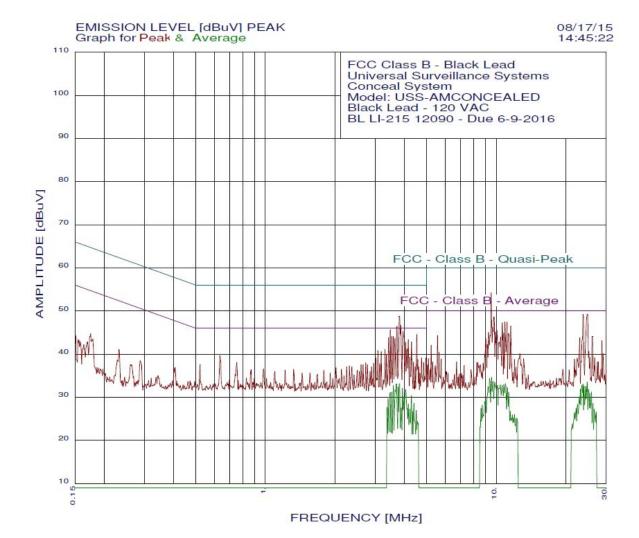
Report Number: **B50817A1 FCC Part 15 Subpart B** and **FCC Section 15.209** Test Report

Conceal System Model: USS-AMCONCEALED

CONDUCTED EMISSIONS

DATA SHEETS







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08/17/15 14:45:22

FCC Class B - Black Lead Universal Surveillance Systems Conceal System Model: USS-AMCONCEALED Black Lead - 120 VAC BL LI-215 12090 - Due 6-9-2016 Test Engineer: Kyle Fujimoto

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

| Peak criteria | 1.00 | dB. | Curve | : Peak |
|---------------|------|-----|-------|--------|

| Peak cr | iteria: 1.00 dB, C | urve : Peak | | |
|---------|--------------------|-------------|-----------|-----------|
| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
| 1 | 9.506 | 54.22 | 50.00 | 4.22** |
| 2 | 3.800 | 48.74 | 46.00 | 2.74** |
| 3 | 3.862 | 46.64 | 46.00 | 0.64** |
| 4 | 3.722 | 46.44 | 46.00 | 0.44** |
| 5 | 3.474 | 45.64 | 46.00 | -0.36** |
| 6 | 24.798 | 49.29 | 50.00 | -0.71** |
| 7 | 3.945 | 45.24 | 46.00 | -0.76** |
| 8 | 23.776 | 49.23 | 50.00 | -0.77** |
| 9 | 9.762 | 48.62 | 50.00 | -1.38** |
| 10 | 4.528 | 44.54 | 46.00 | -1.46** |
| 11 | 3.529 | 44.14 | 46.00 | -1.86** |
| 12 | 3.585 | 44.04 | 46.00 | -1.96** |
| 13 | 3.419 | 43.84 | 46.00 | -2.16** |
| 14 | 3.644 | 43.64 | 46.00 | -2.36** |
| 15 | 10.910 | 47.48 | 50.00 | -2.52** |
| 16 | 11.145 | 47.40 | 50.00 | -2.60** |
| 17 | 4.159 | 43.34 | 46.00 | -2.66** |
| 18 | 10.623 | 47.26 | 50.00 | -2.74** |
| 19 | 4.294 | 42.84 | 46.00 | -3.16** |
| 20 | 4.050 | 42.74 | 46.00 | -3.26** |
| 21 | 11.561 | 46.52 | 50.00 | -3.48** |
| 22 | 9.660 | 46.22 | 50.00 | -3.78** |
| 23 | 10.074 | 45.43 | 50.00 | -4.57** |
| 24 | 4.114 | 41.24 | 46.00 | -4.76** |
| 25 | 9.916 | 45.12 | 50.00 | -4.88** |
| 26 | 3.294 | 41.05 | 46.00 | -4.95 |
| 27 | 9.256 | 45.01 | 50.00 | -4.99** |
| 28 | 10.792 | 44.88 | 50.00 | -5.12** |
| 29 | 3.075 | 40.85 | 46.00 | -5.15 |
| 30 | 11.322 | 44.81 | 50.00 | -5.19** |
| 31 | 3.175 | 40.55 | 46.00 | -5.45 |
| 32 | 5.567 | 44.35 | 50.00 | -5.65 |
| 33 | 26.144 | 44.04 | 50.00 | -5.96** |
| 34 | 10.458 | 43.95 | 50.00 | -6.05** |
| 35 | 3.346 | 39.94 | 46.00 | -6.06 |
| 36 | 23.022 | 43.79 | 50.00 | -6.21** |
| 37 | 0.634 | 39.64 | 46.00 | -6.36 |
| 38 | 9.017 | 43.61 | 50.00 | -6.39** |
| 39 | 4.227 | 39.34 | 46.00 | -6.66** |
| | | | | |

^{**}Please See the Average Readings on the Next Page and on the Plot



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FCC Class B - Black Lead Universal Surveillance Systems Conceal System

Model: USS-AMCONCEALED

Black Lead - 120 VAC

BL LI-215 12090 - Due 6-9-2016 Test Engineer: Kyle Fujimoto

Peak criteria: 0.00 dB, Curve: Average Freq(MHz) Peak# Amp(dBuV) Limit(dB) Delta(dB) 3.820 33.09 46.00 -12.912 3.683 32.97 46.00 -13.03 3.585 32.69 46.00 -13.31 4 3.761 32.41 46.00 -13.595 3.924 32.03 46.00 -13.976 4.050 31.75 46.00 -14.257 3.644 31.67 46.00 -14.338 3.529 31.17 46.00 -14.839 3.474 -14.8931.11 46.00 9.557 -15.3910 34.61 50.00 11 9.352 34.34 50.00 -15.6630.34 4.294 46.00 12 -15.6613 3.987 30.10 46.00 -15.9029.61 14 3.401 46.00 -16.3915 9.711 33.60 50.00 -16.4016 24.798 33.52 50.00 -16.4817 9.865 33.48 50.00 -16.5218 10.968 33.15 50.00 -16.8523.776 33.01 50.00 -16.9919 20 10.792 32.96 50.00 -17.0410.403 50.00 21 32.88 -17.1222 23.524 32.79 50.00 -17.21-17.2423 10.129 32.76 50.00 -17.2624 10.623 32.74 50.00 25 4.408 28.61 46.00 -17.3926 24.027 32.57 50.00 -17.4327 24.404 32.47 50.00 -17.5328 4.159 28.44 46.00 -17.56-17.5929 9.967 32.41 50.00 30 9.208 32.40 50.00 -17.6031 32.17 50.00 -17.8311.204 32 23.148 31.93 50.00 -18.0731.82 33 25.067 50.00 -18.18

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

3.365

3.882

4.227

25.875

11.322

4.504

34

35

36

37

38

39

27.61

27.52

27.24

31.19

31.09

26.95

-18.39

-18.48

-18.76

-18.81

-18.91

-19.05

46.00

46.00

46.00

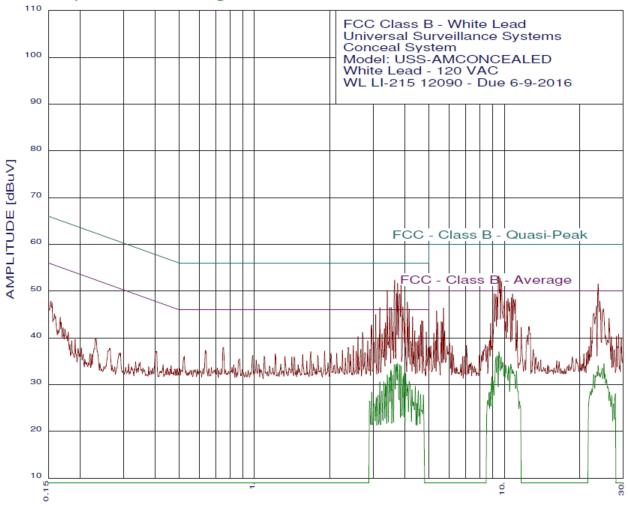
50.00

50.00

46.00



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FREQUENCY [MHz]



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FCC Class B - White Lead Universal Surveillance Systems Conceal System

Model: USS-AMCONCEALED

White Lead - 120 VAC WL LI-215 12090 - Due 6-9-2016

Test Engineer: Kyle Fujimoto

39 highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 1.00 dB. Curve: Peak

| Peak cr | riteria: 1.00 dB, C | urve : Peak | | |
|---------|---------------------|-------------|-----------|-----------|
| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
| 1 | 3.644 | 52.35 | 46.00 | 6.35** |
| 2 | 3.741 | 51.65 | 46.00 | 5.65** |
| 3 | 3.862 | 51.25 | 46.00 | 5.25** |
| 4 | 3.401 | 50.14 | 46.00 | 4.14** |
| 5 | 3.702 | 49.55 | 46.00 | 3.55** |
| 6 | 3.820 | 49.35 | 46.00 | 3.35** |
| 7 | 9.506 | 53.22 | 50.00 | 3.22** |
| 8 | 9.608 | 52.82 | 50.00 | 2.82** |
| 9 | 9.711 | 52.12 | 50.00 | 2.12** |
| 10 | 4.092 | 47.65 | 46.00 | 1.65** |
| 11 | 23.776 | 51.53 | 50.00 | 1.53** |
| 12 | 3.924 | 46.65 | 46.00 | 0.65** |
| 13 | 3.529 | 46.45 | 46.00 | 0.45** |
| 14 | 3.474 | 46.45 | 46.00 | 0.45** |
| 15 | 3.175 | 46.44 | 46.00 | 0.44** |
| 16 | 4.159 | 46.14 | 46.00 | 0.14** |
| 17 | 9.112 | 49.41 | 50.00 | -0.59** |
| 18 | 10.792 | 49.37 | 50.00 | -0.63** |
| 19 | 9.256 | 49.31 | 50.00 | -0.69** |
| 20 | 3.059 | 44.94 | 46.00 | -1.06** |
| 21 | 9.352 | 48.72 | 50.00 | -1.28** |
| 22 | 10.678 | 48.56 | 50.00 | -1.44** |
| 23 | 4.294 | 44.44 | 46.00 | -1.56** |
| 24 | 10.348 | 48.35 | 50.00 | -1.65** |
| 25 | 11.086 | 48.19 | 50.00 | -1.81** |
| 26 | 10.910 | 48.18 | 50.00 | -1.82** |
| 27 | 10.019 | 47.93 | 50.00 | -2.07** |
| 28 | 24.152 | 47.85 | 50.00 | -2.15** |
| 29 | 10.238 | 47.84 | 50.00 | -2.16** |
| 30 | 4.672 | 43.64 | 46.00 | -2.36** |
| 31 | 10.513 | 47.56 | 50.00 | -2.44** |
| 32 | 4.722 | 43.54 | 46.00 | -2.46** |
| 33 | 3.346 | 43.24 | 46.00 | -2.76** |
| 34 | 4.008 | 43.05 | 46.00 | -2.95** |
| 35 | 2.948 | 42.74 | 46.00 | -3.26** |
| 36 | 4.624 | 42.74 | 46.00 | -3.26** |
| 37 | 23.399 | 46.71 | 50.00 | -3.29** |
| 38 | 5.715 | 46.35 | 50.00 | -3.65 |
| 39 | 24.933 | 46.18 | 50.00 | -3.82** |



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FCC Class B - White Lead Universal Surveillance Systems Conceal System Model: USS-AMCONCEALED White Lead - 120 VAC WL LI-215 12090 - Due 6-9-2016

Test Engineer: Kyle Fujimoto

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

| Peak criteria: 0.00 dB, Curve: Average | | | | | | |
|--|-----------|-----------|-----------|-----------|--|--|
| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) | | |
| 1 | 3.741 | 34.49 | 46.00 | -11.51 | | |
| 2 | 3.702 | 34.31 | 46.00 | -11.69 | | |
| 3 | 3.624 | 34.24 | 46.00 | -11.76 | | |
| 4 | 3.820 | 34.22 | 46.00 | -11.78 | | |
| 5 | 3.862 | 33.89 | 46.00 | -12.11 | | |
| 6 | 9.506 | 37.03 | 50.00 | -12.97 | | |
| 7 | 3.529 | 33.03 | 46.00 | -12.97 | | |
| 8 | 3.987 | 32.39 | 46.00 | -13.61 | | |
| 9 | 4.029 | 32.37 | 46.00 | -13.63 | | |
| 10 | 9.352 | 36.17 | 50.00 | -13.83 | | |
| 11 | 3.401 | 32.01 | 46.00 | -13.99 | | |
| 12 | 3.585 | 31.99 | 46.00 | -14.01 | | |
| 13 | 3.945 | 31.88 | 46.00 | -14.12 | | |
| 14 | 9.711 | 35.84 | 50.00 | -14.16 | | |
| 15 | 9.256 | 35.77 | 50.00 | -14.23 | | |
| 16 | 3.474 | 31.56 | 46.00 | -14.44 | | |
| 17 | 9.865 | 34.78 | 50.00 | -15.22 | | |
| 18 | 4.159 | 30.67 | 46.00 | -15.33 | | |
| 19 | 3.294 | 30.60 | 46.00 | -15.40 | | |
| 20 | 3.175 | 30.57 | 46.00 | -15.43 | | |
| 21 | 25.067 | 34.42 | 50.00 | -15.58 | | |
| 22 | 10.623 | 34.37 | 50.00 | -15.63 | | |
| 23 | 3.346 | 30.20 | 46.00 | -15.80 | | |
| 24 | 10.129 | 34.16 | 50.00 | -15.84 | | |
| 25 | 23.776 | 34.05 | 50.00 | -15.95 | | |
| 26 | 4.092 | 30.04 | 46.00 | -15.96 | | |
| 27 | 10.403 | 33.90 | 50.00 | -16.10 | | |
| 28 | 4.408 | 29.64 | 46.00 | -16.36 | | |
| 29 | 24.664 | 33.47 | 50.00 | -16.53 | | |
| 30 | 10.019 | 33.37 | 50.00 | -16.63 | | |
| 31 | 10.792 | 33.17 | 50.00 | -16.83 | | |
| 32 | 4.272 | 28.85 | 46.00 | -17.15 | | |
| 33 | 11.204 | 32.82 | 50.00 | -17.18 | | |
| 34 | 10.910 | 32.76 | 50.00 | -17.24 | | |
| 35 | 23.524 | 32.70 | 50.00 | -17.30 | | |
| 36 | 4.528 | 28.69 | 46.00 | -17.31 | | |
| 37 | 3.243 | 28.61 | 46.00 | -17.39 | | |
| 38 | 24.152 | 32.42 | 50.00 | -17.58 | | |
| 39 | 2.948 | 28.36 | 46.00 | -17.64 | | |
| | | | | | | |