FCC 15.209
TEST REPORT

for

58 kHz ACE System

Model: UXT-AS-ACE

Prepared for

AMERICAN SECURITY SPOL. S R.O.
K VILKAM 1633
107 00 PRAGUE 10 - DUBEC, CZECH REPUBLIC

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DATE: AUGUST 19, 2013

	REPORT BODY	APPENDICES					TOTAL
		A	***B***	***C***	***D***	***E***	
PAGES	20	2	2	2	22	42	**90**

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TABLE OF CONTENTS

Section / Title	PAGE
GENERAL REPORT SUMMARY	***4***
SUMMARY OF TEST RESULTS	***4***
1. PURPOSE	**5**
2. ADMINISTRATIVE DATA	**6**
2.1 Location of Testing	6
2.2 Traceability Statement	6
2.3 Cognizant Personnel	6
2.4 Date Test Sample was Received	6
2.5 Disposition of the Test Sample	6
2.6 Abbreviations and Acronyms	6
3. APPLICABLE DOCUMENTS	**7**
4. DESCRIPTION OF TEST CONFIGURATION	**8**
4.1 Description of Test Configuration – Emissions	8
4.1.1 Cable Construction and Termination	10
5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT	**12**
5.1 EUT and Accessory List	12
5.2 Emissions Test Equipment	13
6. TEST SITE DESCRIPTION	**14**
6.1 Test Facility Description	14
6.2 EUT Mounting, Bonding and Grounding	14
6.3 Facility Environmental Characteristics	14
7. TEST PROCEDURES	**15**
7.1 Conducted Emissions Test	15
7.2 Radiated Emissions (Spurious, Fundamental, and Harmonics) Test	16
7.3 Variation of the Input Power	17
7.4 RF Emissions Test Results	18
8. CONCLUSIONS	**20**

LIST OF APPENDICES

APPENDIX	TITLE
A	Laboratory Accreditations and Recognitions
B	Modifications to the EUT
C	Additional Model Covered Under This Report
D	Diagram, Charts, and Photos • Test Setup Diagram • Antenna and Amplifier Factors • Radiated and Conducted Emissions Photos
E	Data Sheets

LIST OF FIGURES

FIGURE	TITLE
1	Conducted Emissions Test Setup
2	Plot Map and Layout of the Radiated Test Site

GENERAL REPORT SUMMARY

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

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

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested:	58 kHz ACE System Model: UXT-AS-ACE S/N: N/A
Product Description:	See Expository Statement
Modifications:	The EUT was not modified during the testing.
Customer:	American Security spol. s r.o. K Vilkam 1633 107 00 Prague 10 - Dubec, Czech Republic
Test Date(s):	June 24, 25, and 27, 2014
Test Specifications:	EMI requirements CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205 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	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.
2	Radiated RF Emissions 9 kHz – 2000 MHz	Complies with the **Class A** limits of **CFR** Title 47, Part 15, Subpart B; and Subpart C Sections 15.205 and 15.209.

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the 58 kHz ACE System, Model: UXT-AS-ACE. 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 for the digital portion; and Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.

Note: The receiver portion was not performed because it is exempt from the technical provisions in CFR Title 47, Part 15, Subpart B per CFR Title 47, Part 15, Subpart B, section 15.101 (b).

2. ADMINISTRATIVE DATA

2.1 Location of Testing

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

2.2 Traceability Statement

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

2.3 Cognizant Personnel

American Security spol. s r.o.

Clint Meyer	Technical Manager

Compatible Electronics Inc.

Kyle Fujimoto	Test Engineer
James Ross	Test Engineer

2.4 Date Test Sample was Received

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

2.5 Disposition of the Test Sample

The test sample was returned prior to the date of this report.

2.6 Abbreviations and Acronyms

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

FCC	Federal Communications Commission
RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
ITE	Information Technology Equipment
LISN	Line Impedance Stabilization Network
NVLAP	National Voluntary Laboratory Accreditation Program
CFR	Code of Federal Regulations
N/A	Not Applicable
Ltd.	Limited
Inc.	Incorporated
IR	Infrared

3. APPLICABLE DOCUMENTS

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

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

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration – Emissions

The 58 kHz ACE System, Model: UXT-AS-ACE (EUT) was configured as follows:

CONTROLLER BOX		
Port Name	**Connected To**	**Comments**
ANT1_OUT	Antenna	Connected to the wire antenna mounted to the EUT
M_LOOP1	Antenna	Connected to the wire antenna mounted to the EUT
ANT2_OUT	Antenna	Connected to the wire antenna mounted to the EUT
M_LOOP2	Antenna	Connected to the wire antenna mounted to the EUT
RX1	Accessory Receiver PCB #1	The EUT receives from RX PCB #1 in both modes.
RX2	Accessory Receiver PCB #2	The EUT receives from RX PCB #2 in both modes.
Relay 1	Unterminated	1-meter unterminated cable connected in both modes.
Relay 2	Unterminated	1-meter unterminated cable connected in both modes.
SOUND	Speaker	Connected to a speaker mounted on the EUT via a 20-centimeter cable
SYNC IN	Accessory Pedestal	The Accessory Controller provides a signal for the Acessory Pedestal in Sync mode. Unterminated in Stand Alone mode.
SYNC OUT	Accessory Pedestal	The Accessory Controller provides a signal for the Acessory Pedestal in Sync mode. Unterminated in Stand Alone mode.
PC Port	E-comm	Accessory used to conenct the EUT to a laptop via a router so that the power on the EUT can be controlled..

Description of Test Configuration – Emissions (continued)

The EUT was tested in both stand alone and sync configurations.

The controller box was connected to an E-comm vits its PC port.

The E-comm was also connected to a router and AC Adapter via its ethernet and power ports, respectively.

The entire system was continuously transmitting and receiving at 58 kHz. The EUT was tested in both its minimum power and maximum power.

Note #1: The digital portion emissions were tested to the **Class A** limits specification limits defined by CFR Title 47, Part 15, Subpart B.

Note #2: For testing the Rx board only for conducted emissions. The EUT's SYNC port was not terminated.

Note #3: The EUT's SYNC IN and SYNC OUT ports were not terminated for the stand alone configuration.

Note #4: The laptop was used to control the power of the EUT via the router and E-comm connected to the PC port of the EUT.

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

4.1.1 Cable Construction and Termination

Cable 1 This is a 29-meter unshielded cable connecting the E-comm to the router. The cable has an RJ-45 connector at each end.

Cable 2 This is a 1-meter unshielded cable connecting the E-comm to the EUT. The cable has an RJ-11 connector at each end.

Cable 3 **(For Radiated Emissions Only)**
This is a 3-meter unshielded cable connecting the EUT to the Receive PCB #1. The cable has an RJ-45 connector at each end.

Cable 4 This is a 3-meter unshielded cable connecting the EUT to the Receive PCB #2. The cable has an RJ-45 connector at each end.

Cable 5 This is a 1.25-meter unshielded, unterminated cable connecting the controller's Relay #1 port (EUT). The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 40-centimeters.

Cable 6 This is a 1.25-meter unshielded, unterminated cable connecting the controller's Relay #2 port (EUT). The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 40-centimeters.

Cable 7 This is a 20-centimeter unshielded cable connecting the sound port on the EUT to a speaker mounted onto the EUT. The cable has a 2-pin terminal block at the EUT end and is hard wired into the speaker.

Cable 8 This is a 20-centimeter unshielded cable connecting the ANT1_OUT port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

Cable 9 This is a 20-centimeter unshielded cable connecting the M_LOOP1 port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

Cable 10 This is a 20-centimeter unshielded cable connecting the ANT2_OUT port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

Cable 11 This is a 20-centimeter unshielded cable connecting the M_LOOP2 port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

Cable 12 **(Sync Mode Only)**
This is a 4-meter unshielded cable connecting the EUT's EXT Sync output to the accessory UXT-AS-ACE. The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 2-meters.

Cable 13 **(Sync Mode Only)**
This is a 4-meter unshielded cable connecting the EUT's EXT Sync input to the accessory UXT-AS-ACE. The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 2-meters.

Cable Construction and Termination (Continued)

Cable 14 This is a 2-meter unshileded cable connecting the E-comm to the power supply. The cable has a 1/8 inch power connector at the E-comm end and is hard wired into the power supply.

Cable 15 This is a 2-meter unshileded cable connecting the router to the power supply. The cable has a 1/8 inch power connector at the router end and is hard wired into the power supply.

Cable 16 This is a 6-meter unshielded cable connecting the router to the laptop. The cable has an RJ-45 connector at each end.

Cable 17 **(For Conducted Emissions Only)**
This is a 3-meter unshielded cable connecting the EUT to the Receive PCB #1. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 2-meters. The Receiver PCB was mounted to an accessory pedestal.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
58 kHz ACE SYSTEM (EUT)	AMERICAN SECURITY SPOL. S R.O.	UXT-AS-ACE	N/A	UXT-AS-ACE
E-COMM	AMERICAN SECURITY SPOL. S R.O.	D-ECOM	N/A	N/A
E-COMM POWER SUPPLY	STUNTRONICS	3A-066WPI2	N/A	N/A
CONTROLLER POWER SUPPLY	TRONIC	1300645	N/A	N/A
ROUTER	D-LINK	DI-604	B25I159011999	N/A
ACCESSORY PEDESTAL	AMERICAN SECURITY SPOL. S R.O.	UXT-AS-ACE	N/A	UXT-AS-ACE
RECEIVER BOARD PCB #1	AMERICAN SECURITY SPOL. S R.O.	MS-RX	273289	N/A
RECEIVER BOARD PCB #2	AMERICAN SECURITY SPOL. S R.O.	MS-RX	N/A	N/A
LAPTOP	LENOVO	Y510P	N/A	N/A
ACCESSORY CONTROLLER	AMERICAN SECURITY SPOL. S R.O.	UXT-AS-ACE	N/A	UXT-AS-ACE

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
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
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Compatible Electronics Radiated Test	Compatible Electronics	2011	N/A	N/A	N/A
CombiLog Antenna	Com-Power	AC-220	61027	May 20, 2014	1 Year
Loop Antenna	Com-Power	AL-130	17089	January 29, 2013	2 Year
Preamplifier	Com-Power	PA-103	1582	December 30, 2013	1 Year
Horn Antenna	Com-Power	AH-118	071175	February 26, 2014	2 Year
Preamplifier	Com-Power	PA-118	181656	January 13, 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
RF CONDUCTED EMISSIONS TEST EQUIPMENT					
ShieldRoom 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 8, 2013	1 Year
VARIATION OF THE INPUT POWER TEST EQUIPMENT					
Variable Auto Transformer	Staco Energy Products	3PN1010	N/A	N/A	N/A
Multimeter	Wavetek	87	40209875	May 20, 2014	1 Year

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

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

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 0.8 meter non-conductive surface above the ground plane.

The EUT was not grounded.

6.3 Facility Environmental Characteristics

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

7. TEST PROCEDURES

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

7.1 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 conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

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.

7.2 Radiated Emissions (Spurious, Fundamental, and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. A preamplifier was used to increase the sensitivity of the instrument. 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.

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

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 1000 MHz	120 kHz	Combilog Antenna
1000 MHz to 2000 MHz	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. 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 gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

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

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.

7.3 Variation of the Input Power

The variation of the input power test was performed using the EMI Receiver. The EUT input power was varied between 85% and 115% of the nominal rated supply voltage. The carrier frequency was monitored for any change in amplitude.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.31(e).

7.4 RF Emissions Test Results

Table 1.0 CONDUCTED EMISSION RESULTS
58 kHz ACE System, Model: UXT-AS-ACE

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
10.074 (Black Lead) Minimum Power Stand Alone	46.74	50.00	-3.26
0.157 (White Lead) Maximum Power Sync Mode	52.55	55.64	-3.30
0.152 (White Lead) Maximum Power Sync Mode	52.26	55.86	-3.60
0.154 (White Lead) Maximum Power Sync Mode	52.05	55.78	-3.72
0.162 (White Lead) Maximum Power Receiver Mode	51.43	55.38	-3.95
11.432 (Black Lead) Maximum Power Sync Mode Receiver Mode	45.99	50.00	-4.01

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

7.4 RF Emissions Test Results

Table 2.0 RADIATED EMISSION RESULTS
58 kHz ACE System, Model: UXT-AS-ACE

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
150.045 (Vertical) Maximum Power Sync Mode	42.22 (QP)	43.52	-1.30
0.582 (Horizontal) Maximum Power Sync Mode	105.6	106.96	-1.36
0.582 (Horizontal) Maximum Power Stand Alone	49.2	51.39	-2.1906
0.582 (Vertical) Maximum Power Stand Alone	48.50	51.39	-2.8906
0.582 (Horizontal) Minimum Power Sync Mode	48.50	51.39	-2.8906
150.039 (Vertical) Maximum Power Stand Alone	40.50	43.52	-3.02

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

8. CONCLUSIONS

The 58 kHz ACE System, Model: UXT-AS-ACE, as tested, meets all of the **Class A** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.

APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS

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

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

NVLAP listing links
Agoura Division / Brea Division / Silverado/Lake Forest Division

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

"A laboratory's 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 15.205, 15.207, FCC 15.209, or FCC **Class A** 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 MODEL COVERED UNDER THIS REPORT

ADDITIONAL MODEL COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST	58 kHz ACE System Model: UXT-AS-ACE S/N: N/A

There were no additional Model covered under this report.

APPENDIX D

DIAGRAMS, CHARTS AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

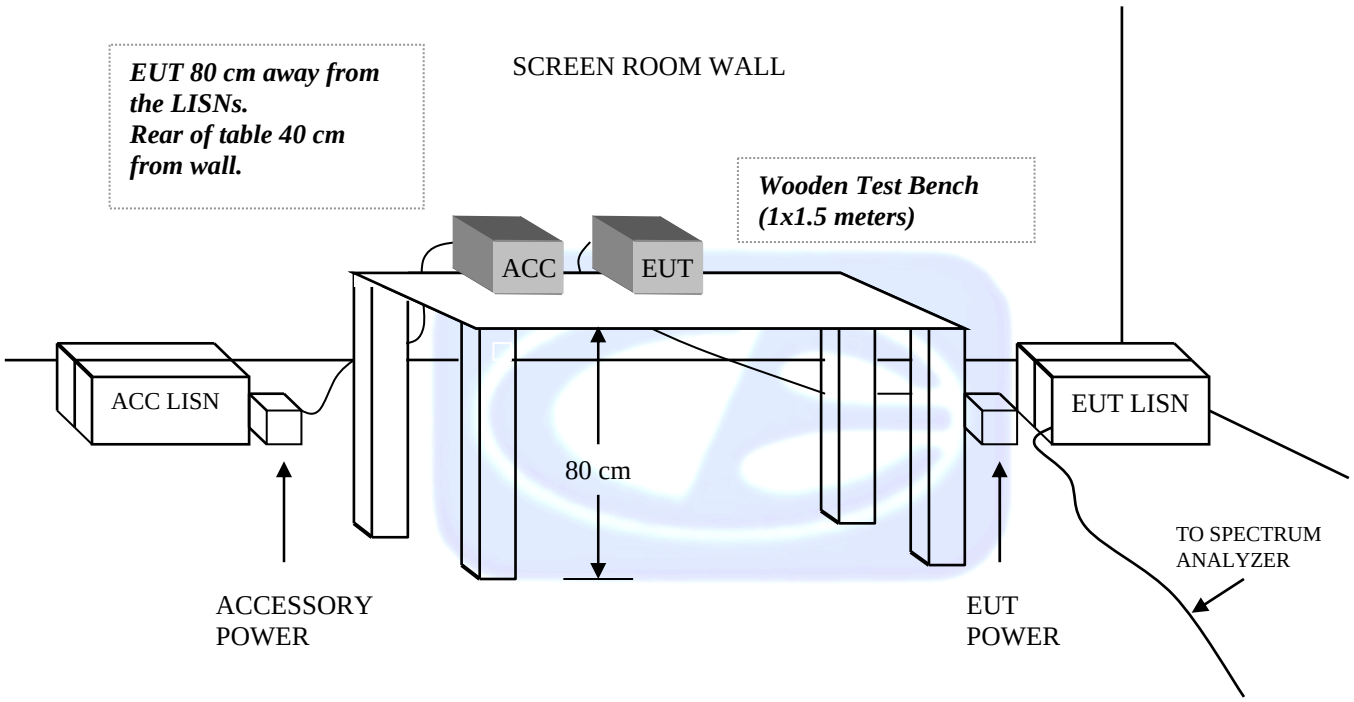
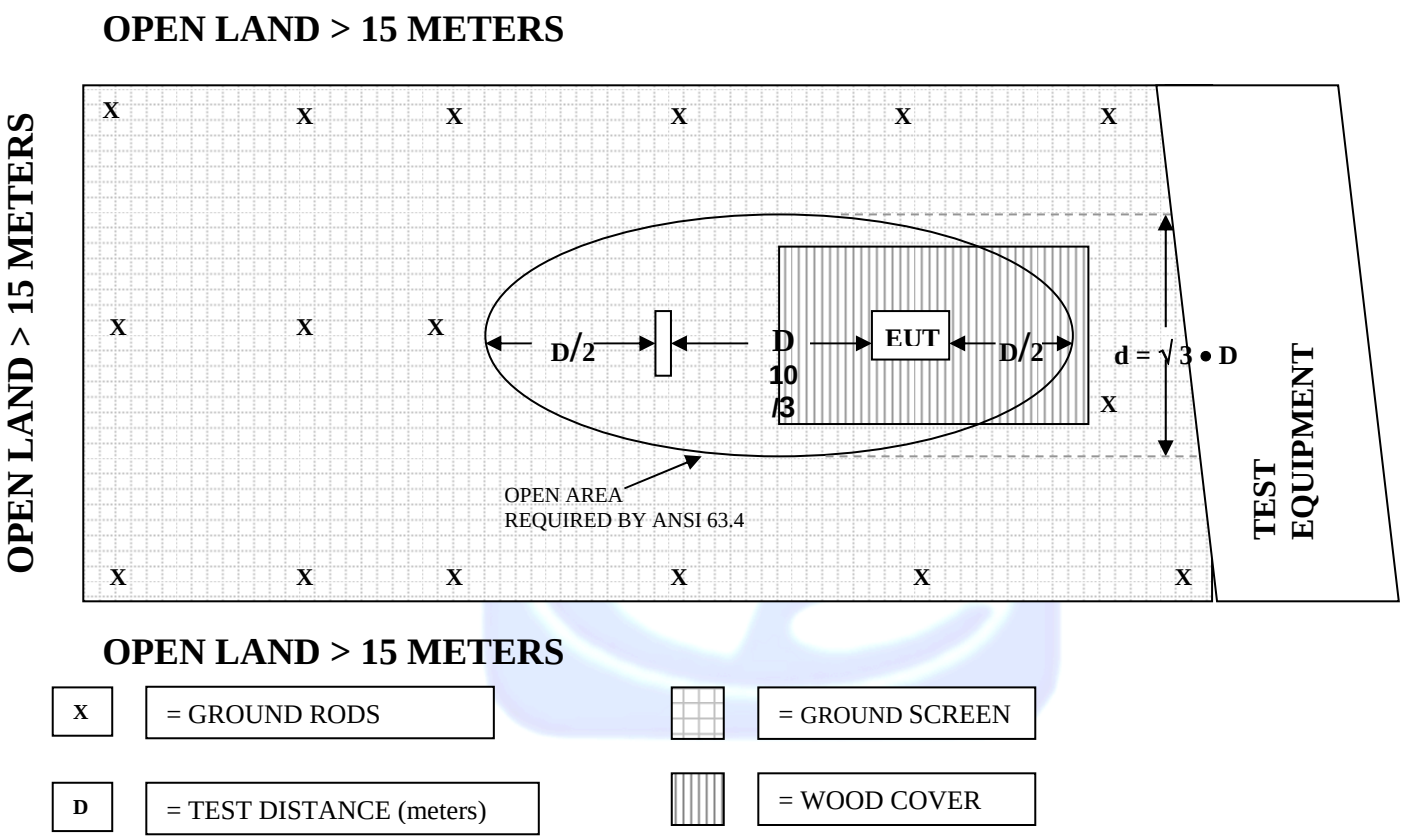


FIGURE 2: PLOT MAP AND LAYOUT OF THE RADIATED TEST SITE



COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61027

CALIBRATION DATE: MAY 20, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	21.50	200	14.50
35	22.00	250	16.80
40	22.60	300	18.60
45	21.20	350	16.30
50	18.70	400	20.70
60	18.40	450	21.00
70	13.70	500	22.70
80	10.30	550	21.70
90	12.50	600	22.80
100	12.90	650	23.20
120	15.70	700	24.20
125	15.80	750	25.50
140	14.50	800	25.90
150	14.40	850	26.60
160	14.50	900	26.70
175	15.30	950	27.90
180	14.70	1000	28.30

COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: JANUARY 29, 2013

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

COM-POWER PA-103

PREAMPLIFIER

S/N: 1582

CALIBRATION DATE: DECEMBER 30, 2013

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	32.60	300	32.40
40	32.70	350	32.00
50	32.50	400	32.20
60	32.50	450	32.00
70	32.50	500	32.00
80	32.40	550	31.90
90	32.50	600	31.80
100	32.40	650	31.80
125	32.40	700	31.70
150	32.30	750	31.60
175	32.30	800	31.70
200	32.30	850	31.50
225	31.60	900	31.00
250	32.40	950	31.30
275	32.30	1000	31.40

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: FEBRUARY 26, 2014

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

COM-POWER PA-118

PREAMPLIFIER

S/N: 181656

CALIBRATION DATE: JANUARY 13, 2014

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

FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – STAND ALONE MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – STAND ALONE MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – SYNC MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – SYNC MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – STAND ALONE MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

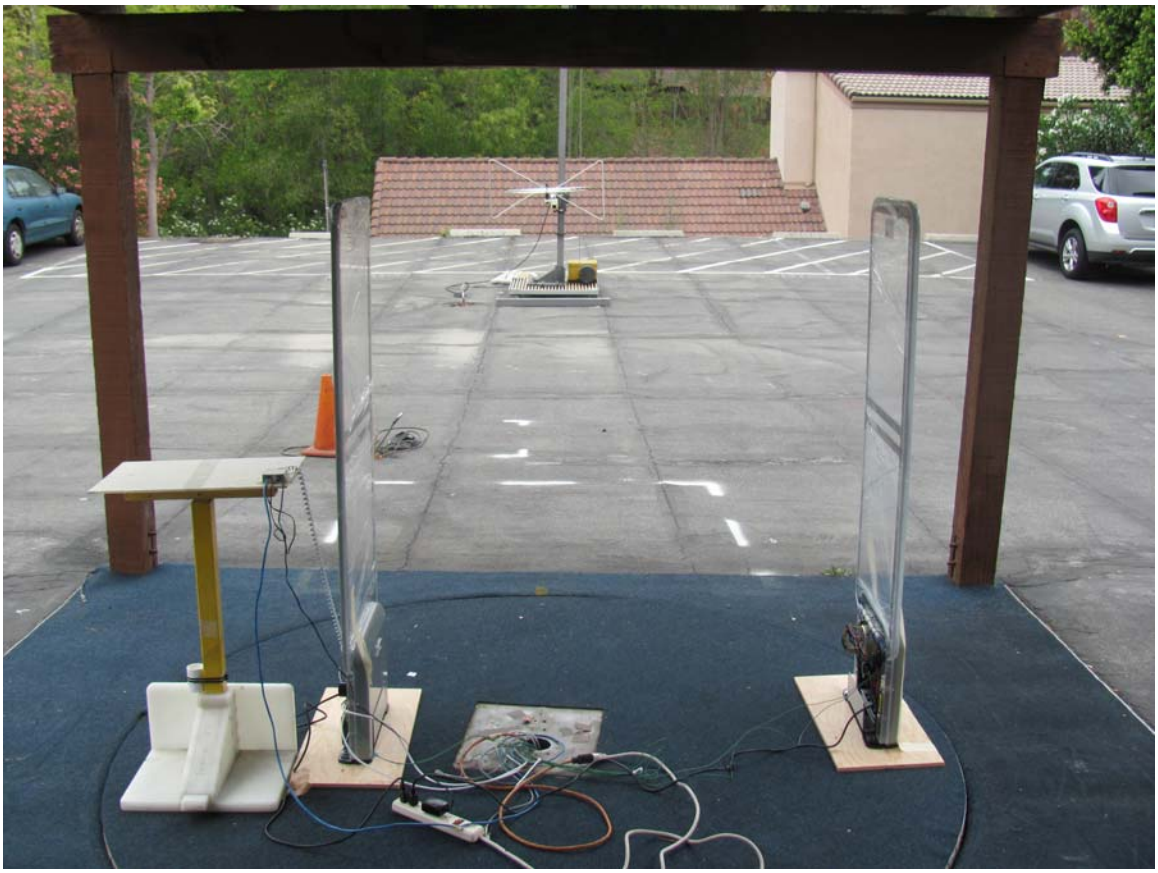
AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – STAND ALONE MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE System
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – SYNC MODE

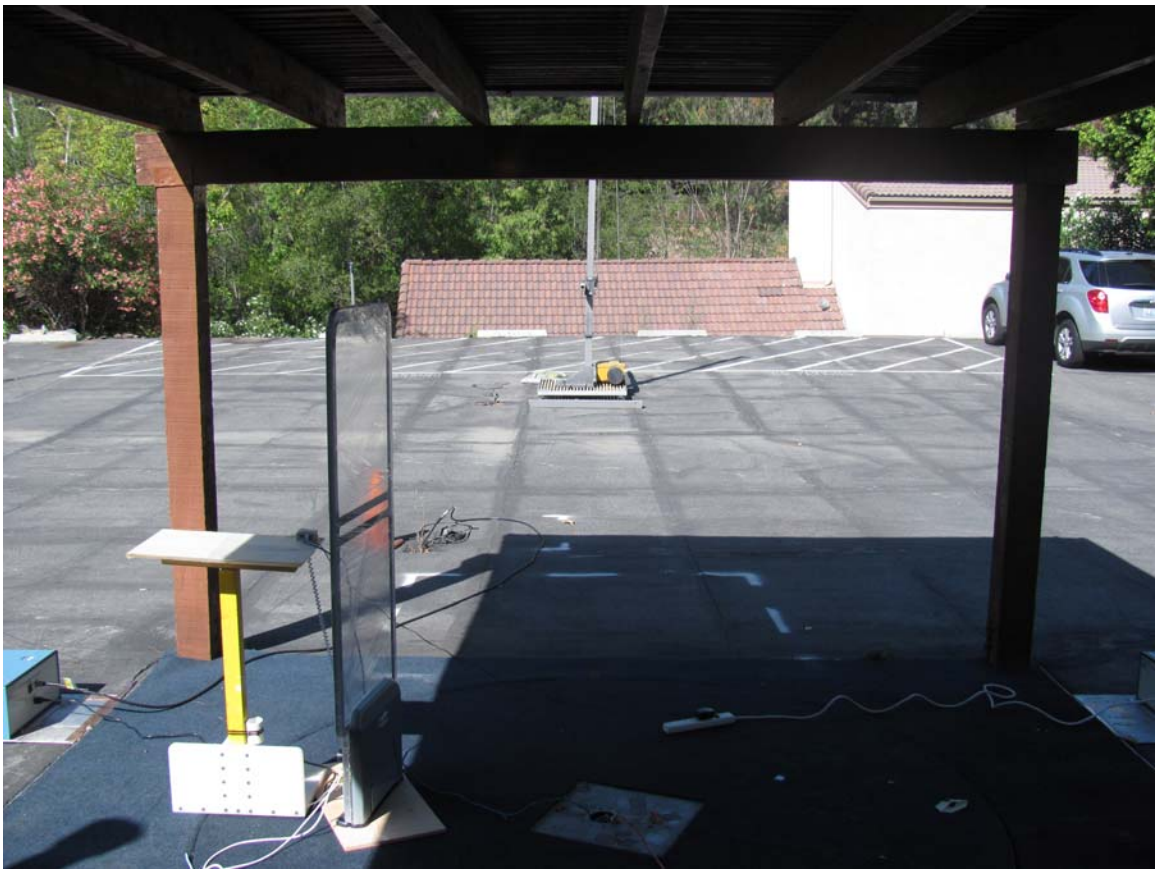
PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – SYNC MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – STAND ALONE MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – STAND ALONE MODE

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – SYNC MODE – TX AND RX

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – SYNC MODE – TX AND RX

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – RX BOARD ONLY

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – RX BOARD ONLY

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Maximum Power - Stand Alone 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
58.2	113.3	V	--	--	Peak	1	90	Actual Reading @ 10m
58.2	102.5	V	--	--	Peak	1	90	Actual Reading @ 15m
58.2	113.3	V	123.00	-9.701	Peak	1	90	Actual Reading @ 10m Corrected using (P*20)
116.4	67.8	V	85.37	-17.57	Peak	1	90	Note: No Other Emissions Detected from 9 kHz to 30 MHz
174.6	68.9	V	81.85	-12.948	Peak	1	90	
232.8	61.1	V	79.35	-18.249	Peak	1	90	
291	60.9	V	77.41	-16.511	Peak	1	90	
349.2	52.5	V	75.83	-23.328	Peak	1	90	
407.4	52.1	V	74.49	-22.389	Peak	1	90	
465.6	50.1	V	73.33	-23.229	Peak	1	90	
523.8	48.6	V	52.31	-3.7058	Peak	1	90	
582	48.5	V	51.39	-2.8906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(113.3-102.5) / 20 Log (15/10)] = 3.07

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Maximum Power - Stand Alone 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
58.2	104.4	H	--	--	Peak	1	135	Actual Reading @ 10m
58.2	95.2	H	--	--	Peak	1	135	Actual Reading @ 15m
58.2	104.4	H	109.47	-5.07	Peak	1	135	Actual Reading @ 10m Corrected using (P*20)
116.4	54.1	H	85.37	-31.27	Peak	1	180	Note: No Other Emissions Detected from 9 kHz to 30 MHz
174.6	56.4	H	81.85	-25.448	Peak	1	135	
232.8	56.8	H	79.35	-22.549	Peak	1	135	
291	53.4	H	77.41	-24.011	Peak	1	135	
349.2	51.9	H	75.83	-23.928	Peak	1	135	
407.4	50.1	H	74.49	-24.389	Peak	1	90	
465.6	49.3	H	73.33	-24.029	Peak	1	90	
523.8	48.7	H	52.31	-3.6058	Peak	1	90	
582	49.2	H	51.39	-2.1906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(104.4-95.20) / 20 Log (15/10)] = 2.612

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Minimum Power - Stand Alone Mode
Test Distance: 10 Meters (Except Where Noted in Comments)
Corrected Spec Limit at 10 Meters = [40 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
58.2	102.6	V	--	--	Peak	1	90	Actual Reading @ 10m
58.2	92.1	V	--	--	Peak	1	90	Actual Reading @ 15m
58.2	102.6	V	120.34	-17.742	Peak	1	90	Actual Reading @ 10m Corrected using (P*20)
116.4	51.9	V	85.37	-33.47	Peak	1	90	Note: No Other Emissions Detected from 9 kHz to 30 MHz
174.6	57.7	V	81.85	-24.148	Peak	1	90	
232.8	54.1	V	79.35	-25.249	Peak	1	90	
291	54.2	V	77.41	-23.211	Peak	1	90	
349.2	50.9	V	75.83	-24.928	Peak	1	90	
407.4	49.9	V	74.49	-24.589	Peak	1	90	
465.6	48.1	V	73.33	-25.229	Peak	1	90	
523.8	48.4	V	52.31	-3.9058	Peak	1	90	
582	47.5	V	51.39	-3.8906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(102.6-92.1) / 20 Log (15/10)] = 2.98

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Minimum Power - Stand Alone Mode
Test Distance: 10 Meters (Except Where Noted in Comments)
Corrected Spec Limit at 10 Meters = [40 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
58.2	95.5	H	--	--	Peak	1	90	Actual Reading @ 10m
58.2	82.5	H	--	--	Peak	1	90	Actual Reading @ 15m
58.2	95.4	H	141.32	-45.917	Peak	1	90	Actual Reading @ 10m Corrected using (P*20)
116.4	40.1	H	85.37	-45.27	Peak	1	90	Note: No Other Emissions Detected from 9 kHz to 30 MHz
174.6	56.2	H	81.85	-25.648	Peak	1	90	
232.8	54.6	H	79.35	-24.749	Peak	1	90	
291	55.2	H	77.41	-22.211	Peak	1	90	
349.2	49	H	75.83	-26.828	Peak	1	90	
407.4	50.7	H	74.49	-23.789	Peak	1	90	
465.6	48.7	H	73.33	-24.629	Peak	1	90	
523.8	43.9	H	52.31	-8.4058	Peak	1	90	
582	46.1	H	51.39	-5.2906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(95.5-82.5) / 20 Log (15/10)] = 3.69

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Maximum Power - Sync 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
58.2	114	V	--	--	Peak	1	90	Actual Reading @ 10m
58.2	103.4	V	--	--	Peak	1	90	Actual Reading @ 15m
58.2	114	V	121.23	-7.2285	Peak	1	90	Actual Reading @ 10m Corrected using (P*20)
116.4	69.3	V	85.37	-16.07	Peak	1	90	Note: No Other Emissions
174.6	70.7	V	81.85	-11.148	Peak	1	90	Detected from 9 kHz to 30 MHz
232.8	57.5	V	79.35	-21.849	Peak	1	90	
291	54.3	V	77.41	-23.111	Peak	1	90	
349.2	57.1	V	75.83	-18.728	Peak	1	90	
407.4	51.3	V	74.49	-23.189	Peak	1	90	
465.6	50.9	V	73.33	-22.429	Peak	1	90	
523.8	45.8	V	52.31	-6.5058	Peak	1	90	
582	46.2	V	51.39	-5.1906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(114-103.4) / 20 Log (15/10)] = 3.01

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Maximum Power - Sync 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
58.2	105.6	H	--	--	Peak	1	135	Actual Reading @ 10m
58.2	96.7	H	--	--	Peak	1	135	Actual Reading @ 15m
58.2	105.6	H	106.96	-1.36	Peak	1	135	Actual Reading @ 10m Corrected using (P*20)
116.4	61.7	H	85.37	-23.67	Peak	1	180	Note: No Other Emissions Detected from 9 kHz to 30 MHz
174.6	60.9	H	81.85	-20.948	Peak	1	135	
232.8	59	H	79.35	-20.349	Peak	1	135	
291	55.3	H	77.41	-22.111	Peak	1	135	
349.2	54.3	H	75.83	-21.528	Peak	1	135	
407.4	52.8	H	74.49	-21.689	Peak	1	90	
465.6	56	H	73.33	-17.329	Peak	1	90	
523.8	47.3	H	52.31	-5.0058	Peak	1	90	
582	48.2	H	51.39	-3.1906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(105.6-96.70) / 20 Log (15/10)] = 2.527

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Minimum Power - Sync Mode
Test Distance: 10 Meters (Except Where Noted in Comments)
Corrected Spec Limit at 10 Meters = [40 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
58.2	103.9	V	--	--	Peak	1	90	Actual Reading @ 10m
58.2	93.3	V	--	--	Peak	1	90	Actual Reading @ 15m
58.2	103.9	V	121.23	-17.328	Peak	1	90	Actual Reading @ 10m
								Corrected using (P*20)
116.4	44.4	V	85.37	-40.97	Peak	1	90	Note: No Other
								Emissions
174.6	38.8	V	81.85	-43.048	Peak	1	90	Detected from 9 kHz
								to 30 MHz
232.8	39.4	V	79.35	-39.949	Peak	1	90	
291	56.1	V	77.41	-21.311	Peak	1	90	
349.2	52.9	V	75.83	-22.928	Peak	1	90	
407.4	52.3	V	74.49	-22.189	Peak	1	90	
465.6	50.1	V	73.33	-23.229	Peak	1	90	
523.8	49.1	V	52.31	-3.2058	Peak	1	90	
582	48.2	V	51.39	-3.1906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz

Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(103.9-93.3) / 20 Log (15/10)] = 3.01

FCC 15.209

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

Transmit Mode - Minimum Power - Sync Mode
Test Distance: 10 Meters (Except Where Noted in Comments)
Corrected Spec Limit at 10 Meters = [40 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
58.2	95.4	H	--	--	Peak	1	90	Actual Reading @ 10m
58.2	82.6	H	--	--	Peak	1	90	Actual Reading @ 15m
58.2	95.4	H	139.54	-44.145	Peak	1	90	Actual Reading @ 10m Corrected using (P*20)
116.4	44.1	H	85.37	-41.27	Peak	1	90	Note: No Other Emissions Detected from 9 kHz to 30 MHz
174.6	56.1	H	81.85	-25.748	Peak	1	90	
232.8	56.5	H	79.35	-22.849	Peak	1	90	
291	53.1	H	77.41	-24.311	Peak	1	90	
349.2	49.9	H	75.83	-25.928	Peak	1	90	
407.4	51.7	H	74.49	-22.789	Peak	1	90	
465.6	49.9	H	73.33	-23.429	Peak	1	90	
523.8	48.5	H	52.31	-3.8058	Peak	1	90	
582	48.5	H	51.39	-2.8906	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz

Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 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 =[(95.4-82.6) / 20 Log (15/10)] = 3.63

Test Location : Compatible Electronics **Page :** 1/1
Customer : American Security spol. s r.o. **Date :** 06 / 26 / 2014
Manufacturer : American Security spol. s r.o. **Time:** 01:59:00 PM
Eut name : 58 kHz ACE System **Lab:** A
Model : UXT-AS-ACE **Test Distance :** 10.00
Serial # : N/A
Specification : FCC A
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical)
FCC Class A - Maximum Power - Stand Alone
Test Engineer: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	35.370	37.20	0.75	22.04	32.65	27.34	39.08	-11.74
2V	45.240	48.10	0.96	21.08	32.60	37.54	39.08	-1.54
3V	45.303Qp	45.33	0.96	21.05	32.59	34.74	39.08	-4.34
4V	49.561	34.20	1.09	18.92	32.51	21.70	39.08	-17.38
5H	56.580	36.60	1.10	18.50	32.50	23.70	39.08	-15.38
6H	67.460	39.10	1.17	14.89	32.50	22.67	39.08	-16.41
7V	108.882	45.90	1.40	14.14	32.40	29.04	43.52	-14.48
8H	114.735	39.10	1.40	14.96	32.40	23.06	43.52	-20.46
9V	117.213	42.60	1.40	15.31	32.40	26.91	43.52	-16.61
10V	123.004	41.80	1.40	15.76	32.40	26.56	43.52	-16.96
11V	126.847	45.50	1.42	15.64	32.39	30.17	43.52	-13.35
12V	133.725	38.20	1.50	15.04	32.37	22.38	43.52	-21.14
13V	140.813	38.70	1.59	14.49	32.34	22.44	43.52	-21.08
14V	150.039	56.70	1.70	14.40	32.30	40.50	43.52	-3.02
15H	150.080	46.50	1.70	14.40	32.30	30.30	43.52	-13.22
16V	166.916	35.20	1.63	14.87	32.30	19.40	43.52	-24.12
17V	200.039	51.10	1.90	14.50	32.30	35.20	43.52	-8.32
18H	200.160	42.60	1.90	14.51	32.30	26.71	43.52	-16.81
19H	210.560	43.20	1.77	14.99	32.00	27.95	43.52	-15.57
20H	235.360	36.10	2.01	16.13	31.93	22.31	46.44	-24.13
21V	243.310	37.60	2.33	16.49	32.19	24.24	46.44	-22.20
22V	250.039	37.70	2.60	16.80	32.40	24.70	46.44	-21.74
23H	250.160	36.90	2.60	16.81	32.40	23.91	46.44	-22.53
24V	280.463	43.60	2.87	17.90	32.32	32.04	46.44	-14.40
25V	300.035	45.90	3.10	18.60	32.40	35.20	46.44	-11.24
26V	419.560	33.80	3.86	20.82	32.12	26.35	46.44	-20.09
27V	611.319	31.90	5.27	22.89	31.80	28.26	46.44	-18.18
28V	759.589	34.30	6.38	25.58	31.62	34.63	46.44	-11.81
29V	782.601	31.50	6.56	25.76	31.67	32.16	46.44	-14.28
30V	800.120	32.20	6.70	25.90	31.70	33.10	46.44	-13.34

Test Location : Compatible Electronics **Page :** 1/1
Customer : American Security spol. s r.o. **Date :** 06 / 26 / 2014
Manufacturer : American Security spol. s r.o. **Time:** 03:15:13 PM
Eut name : 58 kHz ACE System **Lab:** A
Model : UXT-AS-ACE **Test Distance :** 10.00
Serial # : N/A
Specification : FCC A
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical) FCC Class A - Minimum Power - Stand Alone
Test Engineer: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	44.240	42.50	0.93	21.41	32.62	32.22	39.08	-6.86
2V	49.820	38.00	1.09	18.79	32.50	25.38	39.08	-13.70
3H	49.932	36.60	1.10	18.73	32.50	23.93	39.08	-15.15
4H	80.332	31.70	1.40	10.37	32.40	11.07	39.08	-28.01
5V	83.060	43.90	1.43	10.97	32.43	23.87	39.08	-15.21
6H	110.632	41.30	1.40	14.39	32.40	24.69	43.52	-18.83
7H	126.114	36.90	1.41	15.70	32.40	21.62	43.52	-21.90
8H	150.034	40.50	1.70	14.40	32.30	24.30	43.52	-19.22
9V	150.059	56.10	1.70	14.40	32.30	39.90	43.52	-3.62
10V	200.579	43.50	1.89	14.53	32.28	27.64	43.52	-15.88
11V	231.740	35.70	1.87	15.96	31.82	21.71	46.44	-24.73
12H	286.128	41.50	2.93	18.10	32.34	30.19	46.44	-16.25
13V	288.540	33.70	2.96	18.19	32.35	22.50	46.44	-23.94
14V	300.484	41.90	3.10	18.58	32.40	31.18	46.44	-15.26
15H	328.528	33.30	3.21	17.29	32.17	21.63	46.44	-24.81
16V	333.769	39.30	3.24	17.05	32.13	27.45	46.44	-18.99

Test Location : Compatible Electronics
Customer : American Security spol. s r.o.
Manufacturer : American Security spol. s r.o.
Eut name : 58 kHz ACE System
Model : UXT-AS-ACE
Serial # : N/A
Specification : FCC A

Page : 1/2
Date : 06 / 26 / 2014
Time: 04:14:35 PM
Lab: A
Test Distance : 10.00

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

Test Mode : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical) FCC Class A - Maximum Power - Sync Mode
Test Engineer: Kyle Fujimoto

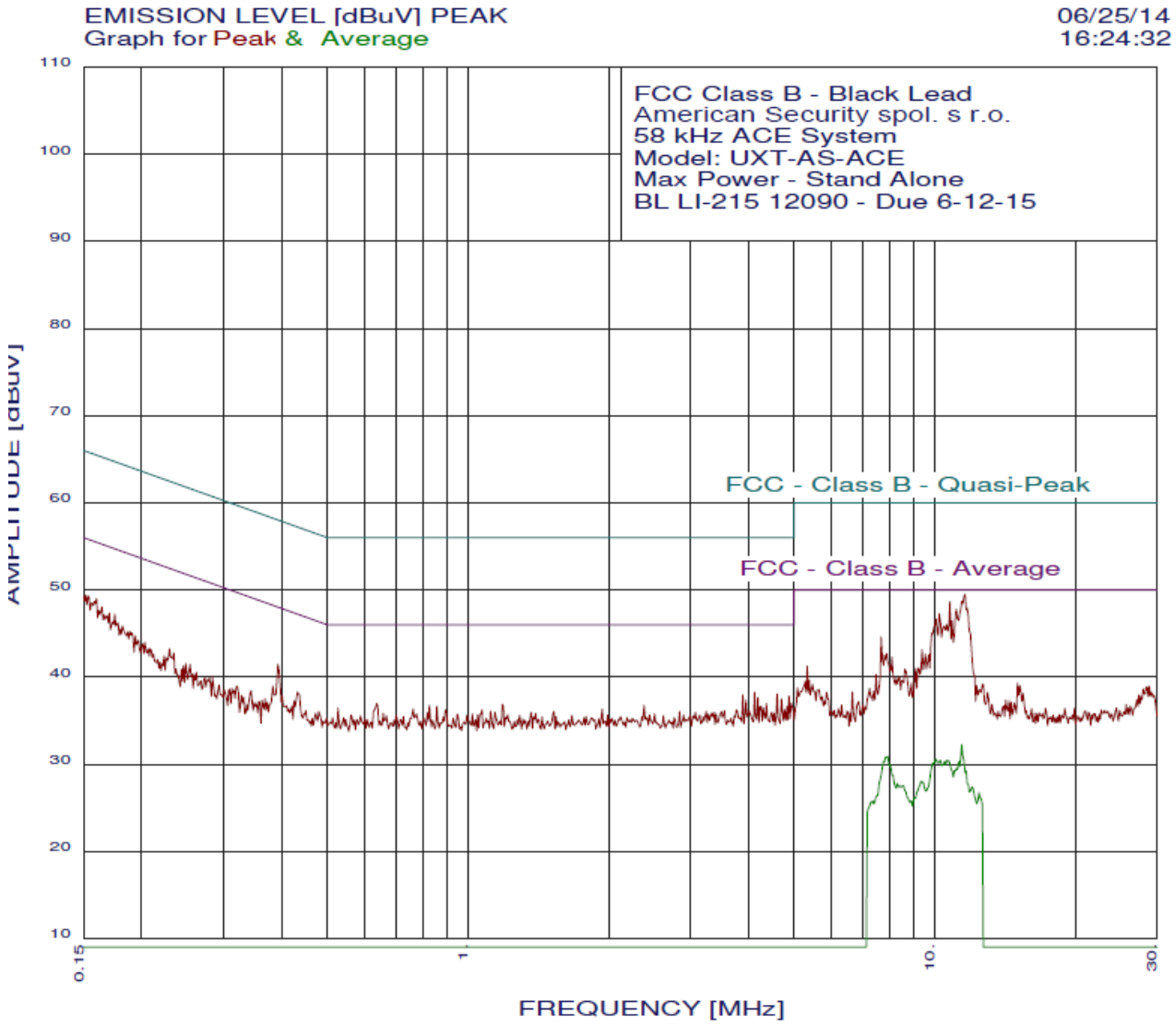
Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	30.072	43.80	0.70	21.51	32.60	33.41	39.08	-5.67
2V	39.910	40.70	0.80	22.59	32.70	31.39	39.08	-7.69
3H	50.130	32.10	1.10	18.70	32.50	19.40	39.08	-19.68
4V	60.410	44.10	1.10	18.21	32.50	30.91	39.08	-8.17
5H	75.130	37.30	1.30	11.96	32.45	18.11	39.08	-20.97
6V	85.690	44.90	1.46	11.55	32.46	25.45	39.08	-13.63
7V	111.282	41.60	1.40	14.48	32.40	25.08	43.52	-18.44
8V	121.023	35.80	1.40	15.72	32.40	20.52	43.52	-23.00
9H	125.013	39.90	1.40	15.80	32.40	24.70	43.52	-18.82
10V	135.201	42.60	1.52	14.92	32.36	26.68	43.52	-16.84
11V	150.045	59.10	1.70	14.40	32.30	42.90	43.52	-0.62
12V	150.045Qp	58.42	1.70	14.40	32.30	42.22	43.52	-1.30
13H	150.050	51.40	1.70	14.40	32.30	35.20	43.52	-8.32
14V	159.201	37.50	1.66	14.49	32.30	21.36	43.52	-22.16
15V	159.428	34.70	1.66	14.49	32.30	18.56	43.52	-24.96
16H	165.059	32.30	1.64	14.77	32.30	16.41	43.52	-27.11
17V	165.888	44.20	1.64	14.81	32.30	28.35	43.52	-15.17
18V	172.602	31.00	1.61	15.17	32.30	15.48	43.52	-28.04
19H	182.068	33.70	1.68	14.68	32.30	17.76	43.52	-25.76
20V	196.001	37.00	1.85	14.54	32.30	21.09	43.52	-22.43
21H	200.050	47.80	1.90	14.50	32.30	31.90	43.52	-11.62
22V	232.228	39.90	1.89	15.98	31.83	25.94	46.44	-20.50
23H	250.114	40.40	2.60	16.80	32.40	27.41	46.44	-19.03
24H	275.050	35.20	2.80	17.70	32.30	23.40	46.44	-23.04
25V	286.628	35.20	2.94	18.12	32.35	23.91	46.44	-22.53
26V	300.068	48.70	3.10	18.60	32.40	38.00	46.44	-8.44
27H	300.098	47.40	3.10	18.60	32.40	36.70	46.44	-9.74
28V	350.068	33.80	3.30	16.31	32.00	21.41	46.44	-25.03
29V	400.068	34.10	3.70	20.70	32.20	26.30	46.44	-20.14
30H	400.306	39.50	3.70	20.70	32.20	31.71	46.44	-14.73
31V	450.068	35.70	4.10	21.00	32.00	28.80	46.44	-17.64
32V	500.068	34.10	4.50	22.70	32.00	29.30	46.44	-17.14
33H	550.012	32.10	4.80	21.70	31.90	26.70	46.44	-19.74
34V	550.068	32.10	4.80	21.70	31.90	26.70	46.44	-19.74
35V	649.893	32.10	5.50	23.20	31.80	29.00	46.44	-17.44

Test Location : Compatible Electronics **Page :** 2/2
Customer : American Security spol. s r.o. **Date :** 06 / 26 / 2014
Manufacturer : American Security spol. s r.o. **Time:** 04:14:35 PM
Eut name : 58 kHz ACE System **Lab:** A
Model : UXT-AS-ACE **Test Distance :** 10.00
Serial # : N/A
Specification : FCC A
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical) FCC Class A - Maximum Power - Sync Mode
Test Engineer: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
36V	700.013	32.50	6.00	24.20	31.70	31.00	46.44	-15.44
37V	800.013	31.90	6.70	25.90	31.70	32.80	46.44	-13.64
38H	820.013	13.50	6.90	26.18	31.62	14.96	46.44	-31.48
39H	900.012	34.90	7.40	26.70	31.00	38.00	46.44	-8.44

Test Location : Compatible Electronics **Page :** 1/1
Customer : American Security spol. s r.o. **Date :** 06 / 27 / 2014
Manufacturer : American Security spol. s r.o. **Time:** 08:29:44 AM
Eut name : 58 kHz ACE System **Lab:** A
Model : UXT-AS-ACE **Test Distance :** 10.00
Serial # : N/A
Specification : FCC A
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical)
FCC Class A - Minimum Power - Sync Mode
Test Engineer: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1H	49.982	35.40	1.10	18.71	32.50	22.71	39.08	-16.37
2V	50.068	42.10	1.10	18.70	32.50	29.40	39.08	-9.68
3H	72.360	40.90	1.25	12.90	32.48	22.57	39.08	-16.51
4V	81.314	45.20	1.41	10.59	32.41	24.79	39.08	-14.29
5H	116.840	37.20	1.40	15.26	32.40	21.46	43.52	-22.06
6V	150.068	56.40	1.70	14.40	32.30	40.20	43.52	-3.32
7V	160.068	38.40	1.66	14.50	32.30	22.26	43.52	-21.26
8V	178.256	50.90	1.64	14.91	32.30	35.15	43.52	-8.37
9V	225.065	47.30	1.60	15.65	31.60	32.95	46.44	-13.49
10H	250.100	38.90	2.60	16.80	32.40	25.90	46.44	-20.54
11V	267.459	34.00	2.74	17.43	32.33	21.84	46.44	-24.60
12V	297.059	32.40	3.06	18.49	32.39	21.57	46.44	-24.87
13V	300.079	49.70	3.10	18.60	32.40	39.00	46.44	-7.44
14H	301.740	30.10	3.11	18.52	32.39	19.34	46.44	-27.10
15H	325.740	34.60	3.20	17.42	32.19	23.02	46.44	-23.42
16V	379.279	33.80	3.53	18.88	32.12	24.09	46.44	-22.35
17H	400.110	35.50	3.70	20.70	32.20	27.70	46.44	-18.74
18V	463.342	35.40	4.21	21.45	32.00	29.06	46.44	-17.38
19H	510.510	33.50	4.56	22.49	31.98	28.57	46.44	-17.87
20H	529.710	31.60	4.68	22.11	31.94	26.44	46.44	-20.00
21V	602.540	36.40	5.22	22.82	31.80	32.64	46.44	-13.80
22V	700.140	29.70	6.00	24.20	31.70	28.20	46.44	-18.24


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
16:24:32
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 16:24:32

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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45 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	11.624	49.49	50.00	-0.51**
2	10.792	48.66	50.00	-1.34**
3	11.145	47.77	50.00	-2.23**
4	10.238	47.24	50.00	-2.76**
5	10.074	46.64	50.00	-3.36**
6	10.910	46.47	50.00	-3.53**
7	7.689	44.59	50.00	-5.41**
8	0.160	48.97	55.47	-6.50
9	0.391	41.49	48.03	-6.55
10	9.403	43.12	50.00	-6.88**
11	0.164	48.05	55.25	-7.19
12	7.898	42.70	50.00	-7.30**
13	9.557	42.63	50.00	-7.37**
14	9.711	42.53	50.00	-7.47**
15	0.175	47.21	54.72	-7.51
16	0.170	47.33	54.94	-7.61
17	8.107	42.30	50.00	-7.70**
18	4.114	38.25	46.00	-7.75
19	4.600	38.05	46.00	-7.95
20	3.882	37.95	46.00	-8.05
21	4.877	37.85	46.00	-8.15
22	4.182	37.65	46.00	-8.35
23	0.182	45.88	54.41	-8.53
24	4.696	37.45	46.00	-8.55
25	3.945	37.35	46.00	-8.65
26	5.335	41.25	50.00	-8.75
27	4.928	37.05	46.00	-8.95
28	0.431	38.27	47.24	-8.97
29	9.112	41.02	50.00	-8.98**
30	4.361	36.95	46.00	-9.05
31	0.637	36.94	46.00	-9.06
32	8.640	40.91	50.00	-9.09**
33	1.184	36.88	46.00	-9.12
34	0.194	44.73	53.88	-9.16
35	0.229	43.26	52.48	-9.21
36	2.384	36.74	46.00	-9.26
37	0.826	36.74	46.00	-9.26
38	0.381	38.99	48.25	-9.26
39	4.825	36.65	46.00	-9.35
40	4.249	36.65	46.00	-9.35
41	0.858	36.64	46.00	-9.36
42	0.203	43.99	53.49	-9.50
43	4.294	36.45	46.00	-9.55
44	0.527	36.44	46.00	-9.56
45	0.763	36.34	46.00	-9.66

**Please See the Average Reading on the Next Page and on the Plot

page 1/1

06/25/14 16:24:32

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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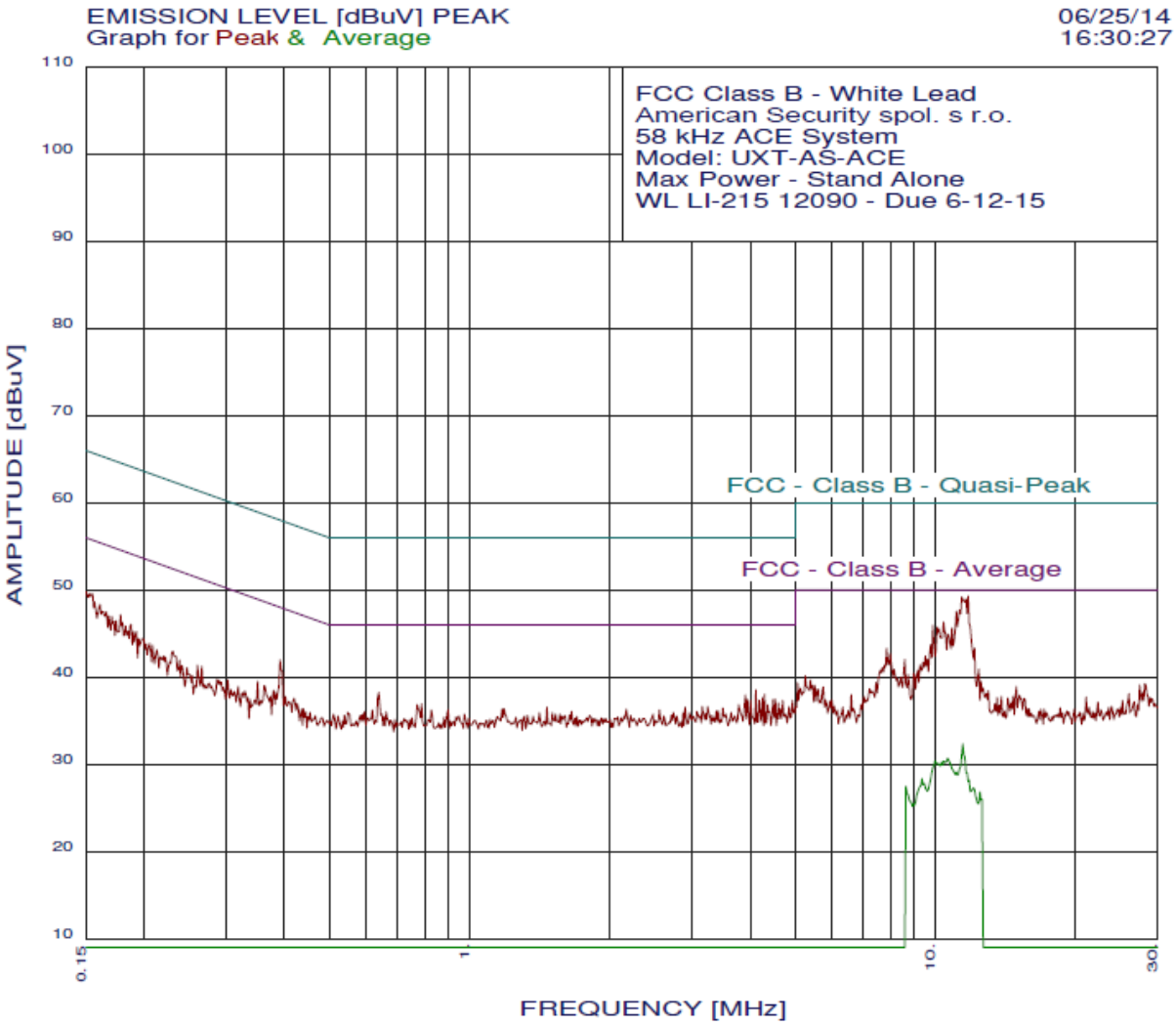
25 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	11.439	32.24	50.00	-17.76
2	7.940	30.89	50.00	-19.11
3	7.856	30.82	50.00	-19.18
4	10.074	30.54	50.00	-19.46
5	10.293	30.45	50.00	-19.55
6	10.623	30.43	50.00	-19.57
7	10.733	30.39	50.00	-19.61
8	10.513	30.31	50.00	-19.69
9	7.773	30.30	50.00	-19.70
10	11.263	30.24	50.00	-19.76
11	9.916	30.12	50.00	-19.88
12	8.023	29.92	50.00	-20.08
13	11.145	29.48	50.00	-20.52
14	11.688	29.23	50.00	-20.77
15	8.148	28.75	50.00	-21.25
16	9.352	28.01	50.00	-21.99
17	9.454	27.97	50.00	-22.03
18	8.327	27.78	50.00	-22.22
19	8.551	27.55	50.00	-22.45
20	8.416	27.50	50.00	-22.50
21	12.066	27.36	50.00	-22.64
22	12.453	26.73	50.00	-23.27
23	9.065	26.15	50.00	-23.85
24	8.921	25.81	50.00	-24.19
25	7.372	25.78	50.00	-24.22


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
16:30:27
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

06/25/14 16:30:27

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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45 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	11.751	49.30	50.00	-0.70**
2	11.381	49.19	50.00	-0.81**
3	11.086	47.58	50.00	-2.42**
4	10.403	46.35	50.00	-3.65**
5	9.865	45.93	50.00	-4.07**
6	10.074	45.74	50.00	-4.26**
7	10.851	45.67	50.00	-4.33**
8	10.623	44.96	50.00	-5.04**
9	0.391	41.99	48.03	-6.04
10	9.762	43.73	50.00	-6.27**
11	12.129	43.32	50.00	-6.68**
12	7.856	43.30	50.00	-6.70
13	0.161	48.33	55.43	-7.10
14	7.981	42.70	50.00	-7.30
15	0.178	47.17	54.59	-7.42
16	4.114	38.54	46.00	-7.46
17	9.506	42.43	50.00	-7.57**
18	0.637	38.24	46.00	-7.76
19	0.170	47.00	54.94	-7.94
20	4.294	38.04	46.00	-7.96
21	8.595	42.01	50.00	-7.99
22	3.903	37.94	46.00	-8.06
23	0.168	47.01	55.07	-8.07
24	0.187	46.04	54.15	-8.11
25	0.174	46.48	54.77	-8.28
26	4.249	37.64	46.00	-8.36
27	0.183	45.85	54.37	-8.52
28	3.945	37.44	46.00	-8.56
29	4.480	37.44	46.00	-8.56
30	4.528	37.44	46.00	-8.56
31	4.008	37.34	46.00	-8.66
32	4.182	37.34	46.00	-8.66
33	4.696	37.34	46.00	-8.66
34	4.928	37.34	46.00	-8.66
35	0.193	45.22	53.93	-8.71
36	0.189	45.23	54.06	-8.83
37	4.600	37.04	46.00	-8.96
38	0.788	36.94	46.00	-9.06
39	12.386	40.93	50.00	-9.07**
40	4.361	36.84	46.00	-9.16
41	3.781	36.84	46.00	-9.16
42	0.771	36.84	46.00	-9.16
43	9.160	40.82	50.00	-9.18**
44	4.851	36.64	46.00	-9.36
45	3.243	36.64	46.00	-9.36

**Please See the Average Reading on the Next Page and on the Plot

page 1/1

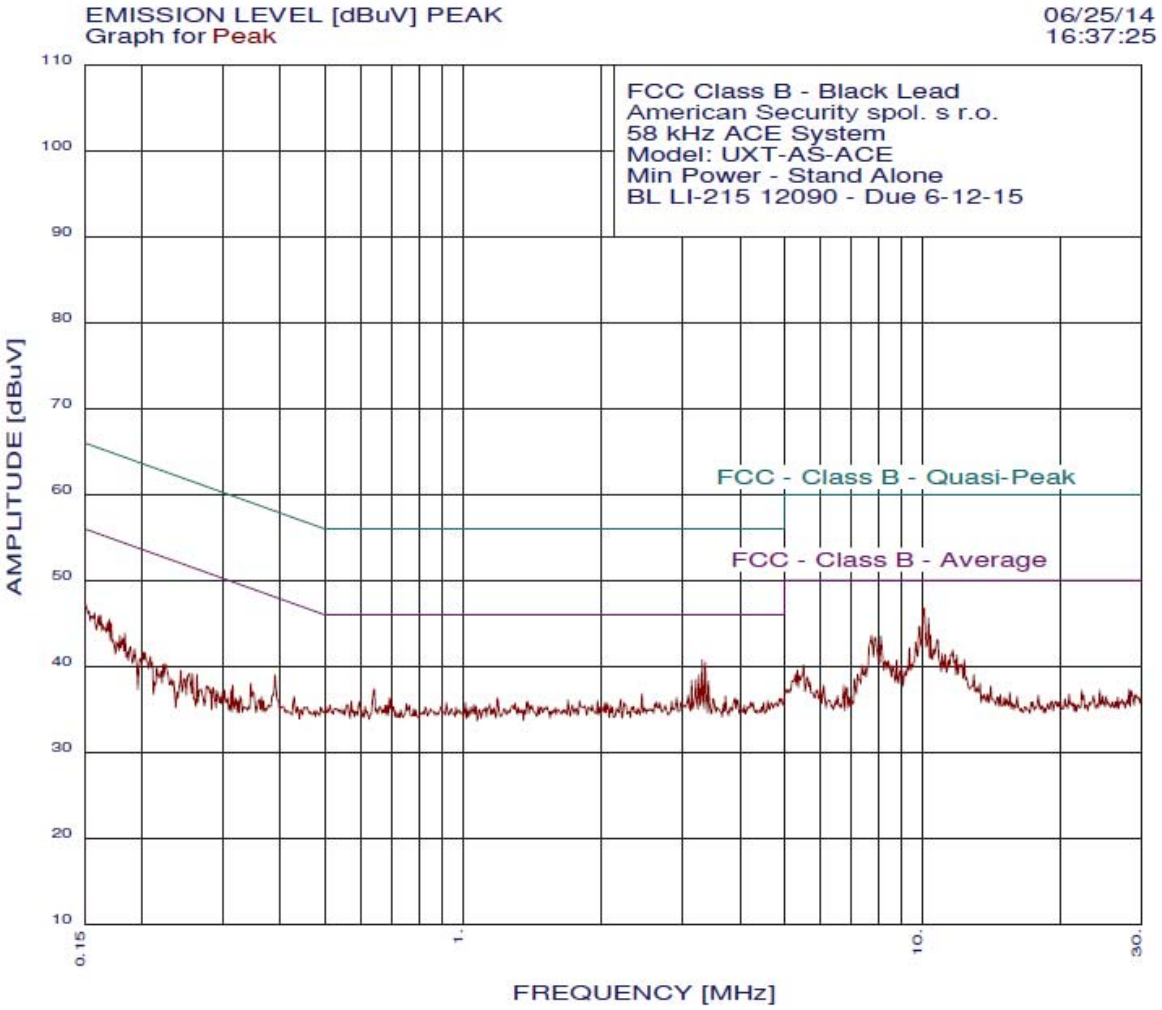
06/25/14 16:30:27

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

15 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	11.439	32.35	50.00	-17.65
2	10.623	30.69	50.00	-19.31
3	10.403	30.38	50.00	-19.62
4	9.967	30.37	50.00	-19.63
5	10.293	30.25	50.00	-19.75
6	11.086	29.11	50.00	-20.89
7	9.352	28.35	50.00	-21.65
8	11.814	28.18	50.00	-21.82
9	9.454	27.80	50.00	-22.20
10	8.640	27.45	50.00	-22.55
11	12.066	27.31	50.00	-22.69
12	12.453	26.84	50.00	-23.16
13	12.588	25.98	50.00	-24.02
14	8.873	25.69	50.00	-24.31
15	8.969	25.47	50.00	-24.53


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:37:25
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

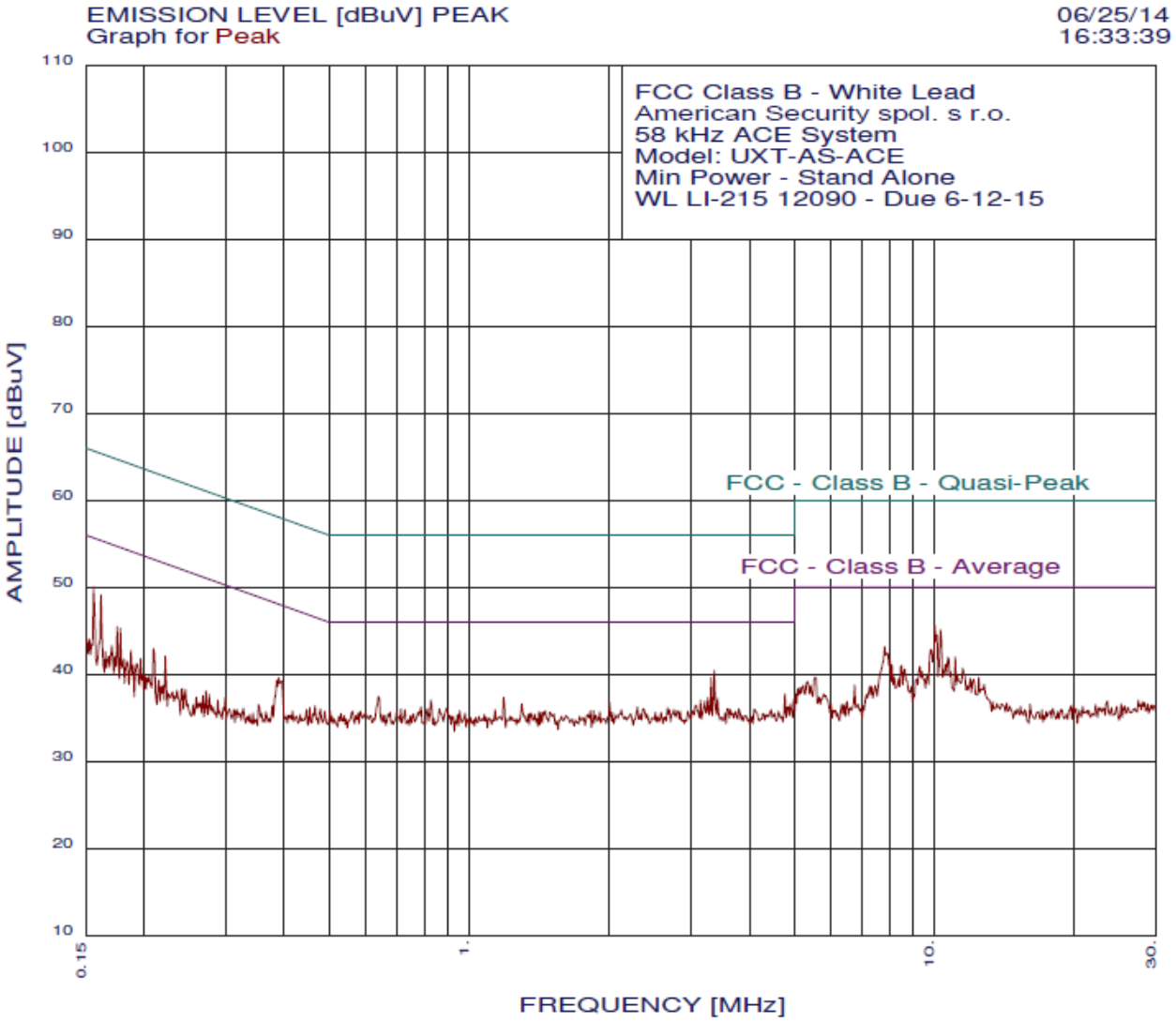
06/25/14 16:37:25

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 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	10.074	46.74	50.00	-3.26
2	10.293	45.65	50.00	-4.35
3	3.311	40.74	46.00	-5.26
4	9.813	44.63	50.00	-5.37
5	3.365	40.44	46.00	-5.56
6	10.403	43.65	50.00	-6.35
7	7.731	43.60	50.00	-6.40
8	8.107	43.50	50.00	-6.50
9	7.898	43.30	50.00	-6.70
10	10.792	43.06	50.00	-6.94
11	3.260	38.94	46.00	-7.06
12	9.660	42.83	50.00	-7.17
13	3.209	38.44	46.00	-7.56
14	3.141	38.34	46.00	-7.66
15	3.419	38.24	46.00	-7.76
16	9.352	42.12	50.00	-7.88
17	11.624	41.89	50.00	-8.11
18	11.027	41.47	50.00	-8.53
19	11.204	41.38	50.00	-8.62
20	0.641	37.34	46.00	-8.66
21	11.877	41.30	50.00	-8.70
22	0.389	38.99	48.08	-9.09
23	2.449	36.84	46.00	-9.16
24	12.318	40.82	50.00	-9.18
25	8.777	40.71	50.00	-9.29
26	3.091	36.64	46.00	-9.36
27	0.162	45.96	55.34	-9.38
28	8.416	40.61	50.00	-9.39
29	3.722	36.54	46.00	-9.46
30	0.170	45.43	54.98	-9.55
31	0.161	45.87	55.43	-9.56
32	3.903	36.35	46.00	-9.65
33	2.916	36.34	46.00	-9.66
34	0.690	36.34	46.00	-9.66
35	1.184	36.28	46.00	-9.72
36	3.492	36.24	46.00	-9.76
37	0.698	36.24	46.00	-9.76
38	12.129	40.21	50.00	-9.79
39	5.508	40.16	50.00	-9.84
40	2.201	36.14	46.00	-9.86
41	0.171	45.02	54.90	-9.87
42	8.595	40.11	50.00	-9.89
43	7.372	40.09	50.00	-9.91
44	1.690	36.08	46.00	-9.92
45	3.945	36.05	46.00	-9.95


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:33:39
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

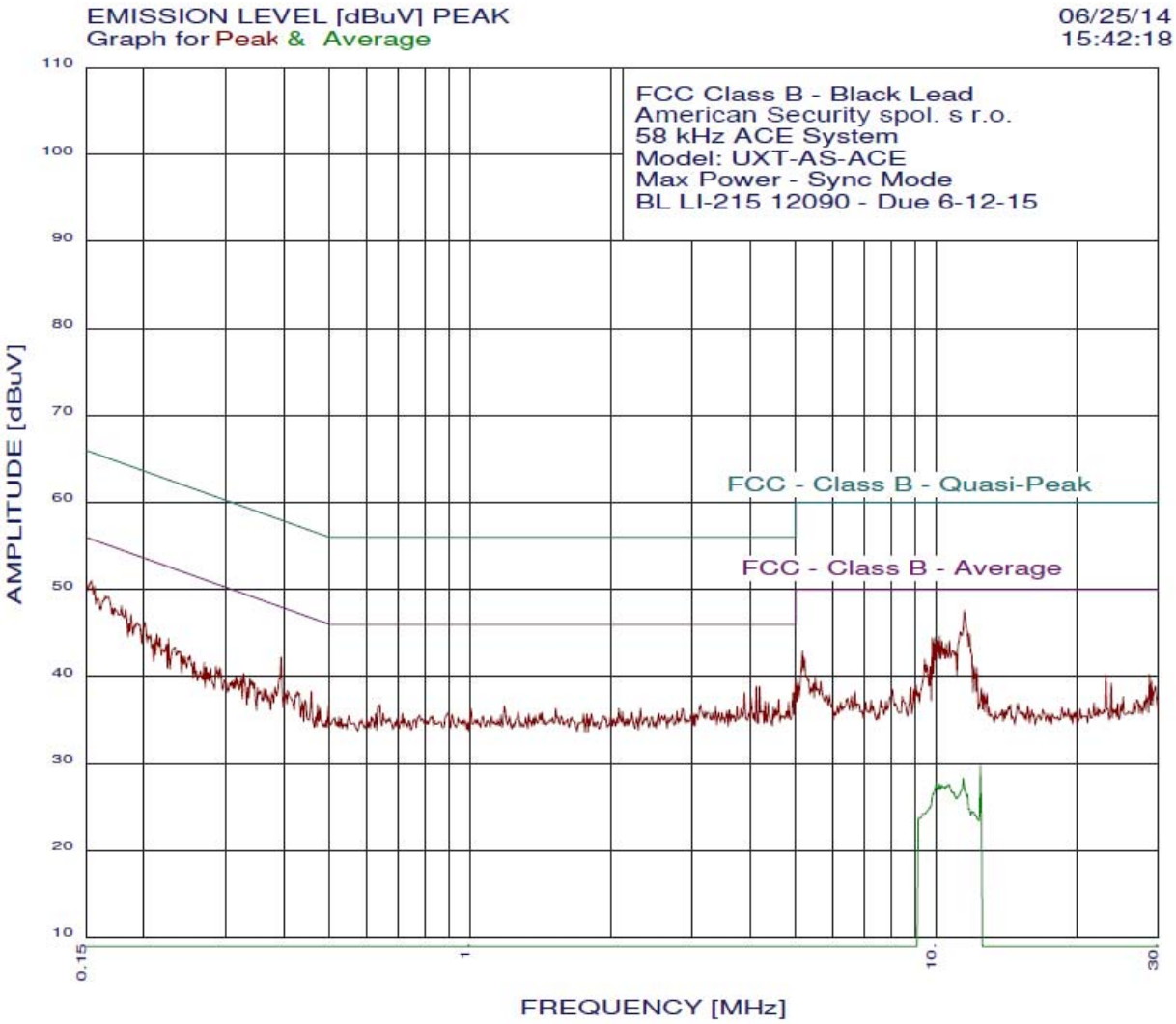
06/25/14 16:33:39

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 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	10.019	45.64	50.00	-4.36
2	10.293	45.15	50.00	-4.85
3	3.365	40.44	46.00	-5.56
4	0.156	50.05	55.69	-5.64
5	0.162	49.13	55.38	-6.25
6	3.311	39.64	46.00	-6.36
7	7.815	43.19	50.00	-6.81
8	9.813	42.83	50.00	-7.17
9	11.086	41.98	50.00	-8.02
10	10.678	41.96	50.00	-8.04
11	4.774	37.74	46.00	-8.26
12	0.389	39.59	48.08	-8.48
13	0.637	37.44	46.00	-8.56
14	1.184	37.38	46.00	-8.62
15	3.260	37.34	46.00	-8.66
16	3.419	37.24	46.00	-8.76
17	10.568	41.16	50.00	-8.84
18	4.980	37.14	46.00	-8.86
19	8.107	41.10	50.00	-8.90
20	3.141	37.04	46.00	-8.96
21	0.826	37.04	46.00	-8.96
22	8.506	41.01	50.00	-8.99
23	3.209	36.94	46.00	-9.06
24	9.304	40.92	50.00	-9.08
25	0.175	45.48	54.72	-9.24
26	2.002	36.74	46.00	-9.26
27	11.498	40.69	50.00	-9.31
28	0.178	45.27	54.59	-9.32
29	4.902	36.64	46.00	-9.36
30	8.640	40.61	50.00	-9.39
31	1.297	36.60	46.00	-9.40
32	3.075	36.44	46.00	-9.56
33	4.825	36.24	46.00	-9.76
34	2.298	36.24	46.00	-9.76
35	0.788	36.24	46.00	-9.76
36	2.665	36.14	46.00	-9.86
37	0.895	36.14	46.00	-9.86
38	3.800	36.04	46.00	-9.96
39	3.605	36.04	46.00	-9.96
40	2.371	36.04	46.00	-9.96
41	0.713	36.04	46.00	-9.96
42	0.862	36.04	46.00	-9.96
43	0.814	36.04	46.00	-9.96
44	9.660	40.03	50.00	-9.97
45	1.136	35.97	46.00	-10.03


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
15:42:18
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 15:42:18

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 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	11.498	47.59	50.00	-2.41**
2	0.154	51.00	55.78	-4.78
3	11.814	44.90	50.00	-5.10**
4	10.183	44.64	50.00	-5.36**
5	9.916	44.43	50.00	-5.57**
6	9.813	44.43	50.00	-5.57**
7	0.393	42.18	47.99	-5.81
8	10.074	44.14	50.00	-5.86**
9	10.678	44.06	50.00	-5.94**
10	0.165	49.25	55.20	-5.95
11	10.293	44.05	50.00	-5.95**
12	10.513	43.75	50.00	-6.25**
13	0.179	48.09	54.54	-6.45
14	0.187	47.15	54.15	-6.99
15	5.169	42.95	50.00	-7.05
16	4.182	38.85	46.00	-7.15
17	4.114	38.85	46.00	-7.15
18	0.201	46.20	53.58	-7.38
19	0.193	46.13	53.93	-7.79
20	5.224	42.15	50.00	-7.85
21	4.928	38.15	46.00	-7.85
22	3.882	38.15	46.00	-7.85
23	9.454	41.93	50.00	-8.07**
24	0.226	44.38	52.61	-8.23
25	0.213	44.84	53.09	-8.25
26	4.008	37.65	46.00	-8.35
27	0.457	38.26	46.76	-8.50
28	4.600	37.35	46.00	-8.65
29	12.066	41.21	50.00	-8.79**
30	4.294	37.15	46.00	-8.85
31	9.711	41.13	50.00	-8.87**
32	0.211	44.25	53.18	-8.93
33	4.825	37.05	46.00	-8.95
34	4.361	37.05	46.00	-8.95
35	12.255	41.01	50.00	-8.99**
36	0.233	43.35	52.34	-9.00
37	0.223	43.69	52.70	-9.00
38	0.426	38.27	47.33	-9.06
39	0.327	40.31	49.53	-9.22
40	3.124	36.74	46.00	-9.26
41	0.641	36.74	46.00	-9.26
42	0.406	38.38	47.72	-9.34
43	0.251	42.36	51.73	-9.36
44	1.184	36.58	46.00	-9.42
45	3.741	36.54	46.00	-9.46

**Please See the Average Reading on the Next Page and on the Plot

page 1/1

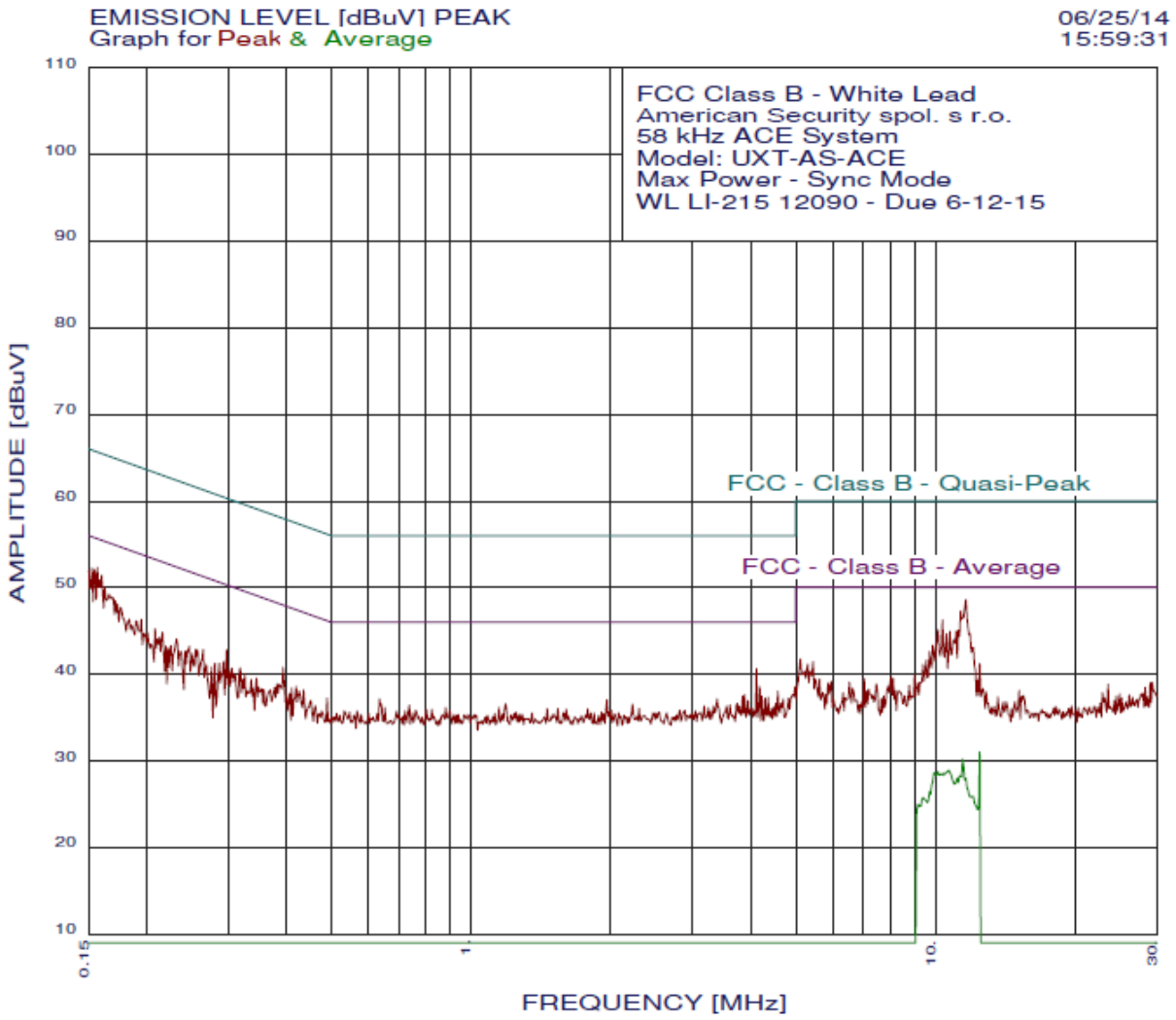
06/25/14 15:42:18

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

13 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	12.453	29.68	50.00	-20.32
2	11.439	28.25	50.00	-21.75
3	10.019	27.71	50.00	-22.29
4	10.183	27.62	50.00	-22.38
5	10.678	27.55	50.00	-22.45
6	10.293	27.45	50.00	-22.55
7	10.513	27.35	50.00	-22.65
8	10.403	27.30	50.00	-22.70
9	10.910	26.68	50.00	-23.32
10	11.688	26.43	50.00	-23.57
11	11.814	24.74	50.00	-25.26
12	12.003	24.41	50.00	-25.59
13	12.192	24.01	50.00	-25.99


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
15:59:31
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30
FREQUENCY [MHz]

page 1/1

06/25/14 15:59:31

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 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	11.624	48.60	50.00	-1.40**
2	0.157	52.35	55.64	-3.30
3	0.152	52.26	55.86	-3.60
4	0.154	52.05	55.78	-3.72
5	10.348	46.25	50.00	-3.75**
6	0.160	51.43	55.47	-4.04
7	10.129	45.14	50.00	-4.86**
8	11.086	44.98	50.00	-5.02**
9	10.733	44.96	50.00	-5.04**
10	0.162	50.02	55.34	-5.31
11	10.568	44.66	50.00	-5.34**
12	4.114	40.64	46.00	-5.36
13	0.171	48.49	54.90	-6.40
14	9.865	43.33	50.00	-6.67**
15	0.176	47.68	54.68	-7.00
16	0.393	40.79	47.99	-7.20
17	9.711	42.63	50.00	-7.37**
18	4.182	38.54	46.00	-7.46
19	4.980	38.54	46.00	-7.46
20	0.297	42.82	50.32	-7.50
21	0.195	46.31	53.84	-7.53
22	0.189	46.13	54.06	-7.93
23	4.576	38.04	46.00	-7.96
24	0.183	46.35	54.33	-7.98
25	0.208	45.26	53.27	-8.01
26	0.216	44.83	52.96	-8.13
27	5.114	41.74	50.00	-8.26
28	0.232	44.07	52.39	-8.32
29	3.882	37.64	46.00	-8.36
30	9.557	41.63	50.00	-8.37**
31	0.265	42.84	51.29	-8.44
32	5.449	41.45	50.00	-8.55
33	4.227	37.44	46.00	-8.56
34	3.841	37.44	46.00	-8.56
35	0.247	43.21	51.86	-8.65
36	4.361	37.34	46.00	-8.66
37	0.255	42.88	51.60	-8.72
38	4.294	37.24	46.00	-8.76
39	4.825	37.24	46.00	-8.76
40	12.453	41.23	50.00	-8.77**
41	0.201	44.79	53.58	-8.79
42	0.213	44.24	53.09	-8.85
43	5.307	41.15	50.00	-8.85
44	4.696	37.14	46.00	-8.86
45	0.634	37.14	46.00	-8.86

**Please See the Average Reading on the Next Page and on the Plot

page 1/1

06/25/14 15:59:31

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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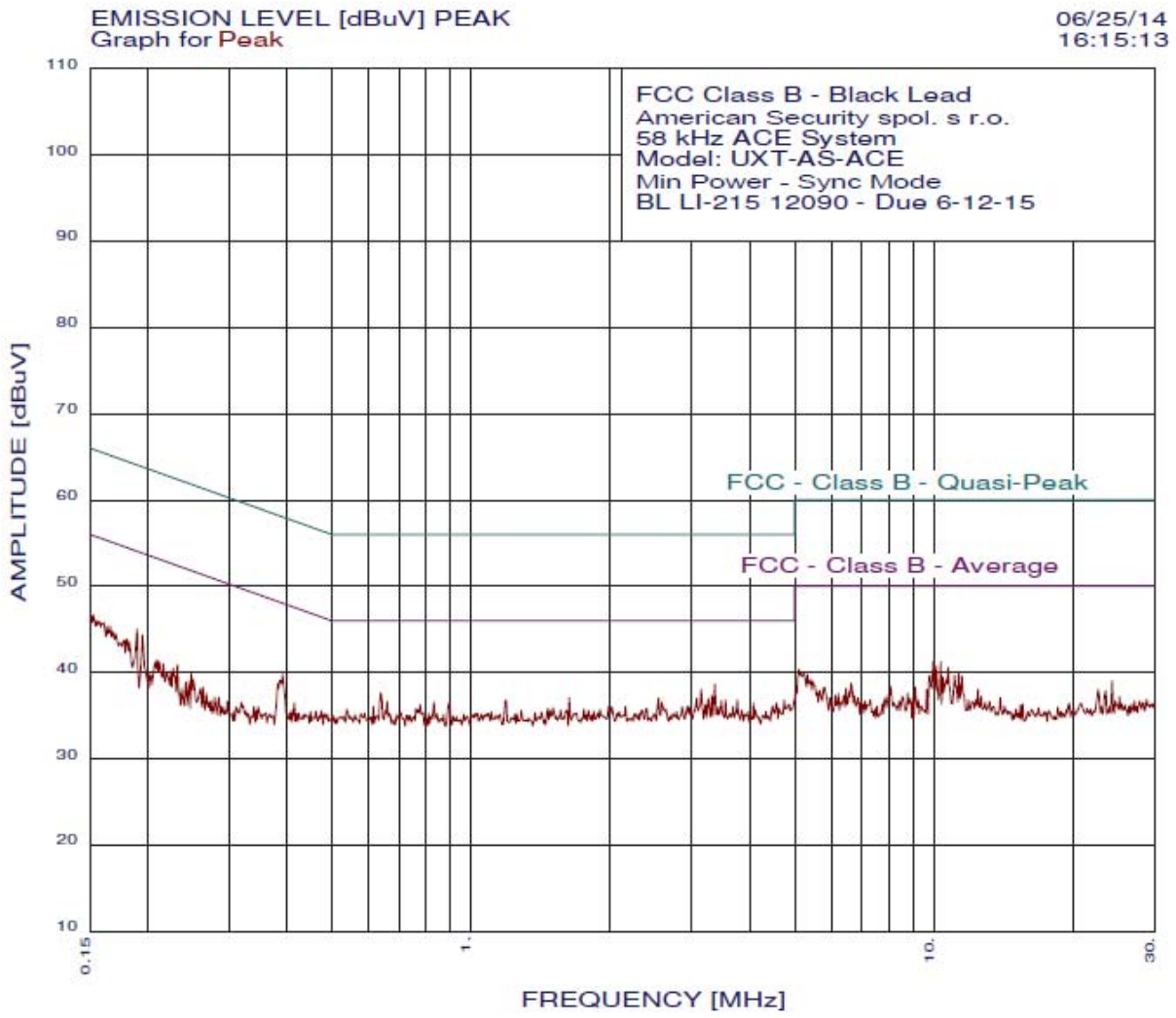
16 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	12.453	31.02	50.00	-18.98
2	11.439	30.22	50.00	-19.78
3	10.678	28.93	50.00	-21.07
4	10.129	28.75	50.00	-21.25
5	9.967	28.63	50.00	-21.37
6	10.458	28.55	50.00	-21.45
7	10.348	28.55	50.00	-21.45
8	11.263	28.29	50.00	-21.71
9	11.624	28.00	50.00	-22.00
10	11.145	27.98	50.00	-22.02
11	9.711	26.48	50.00	-23.52
12	12.066	25.90	50.00	-24.10
13	11.940	25.90	50.00	-24.10
14	9.403	25.76	50.00	-24.24
15	9.160	24.98	50.00	-25.02
16	9.256	24.85	50.00	-25.15


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:15:13
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

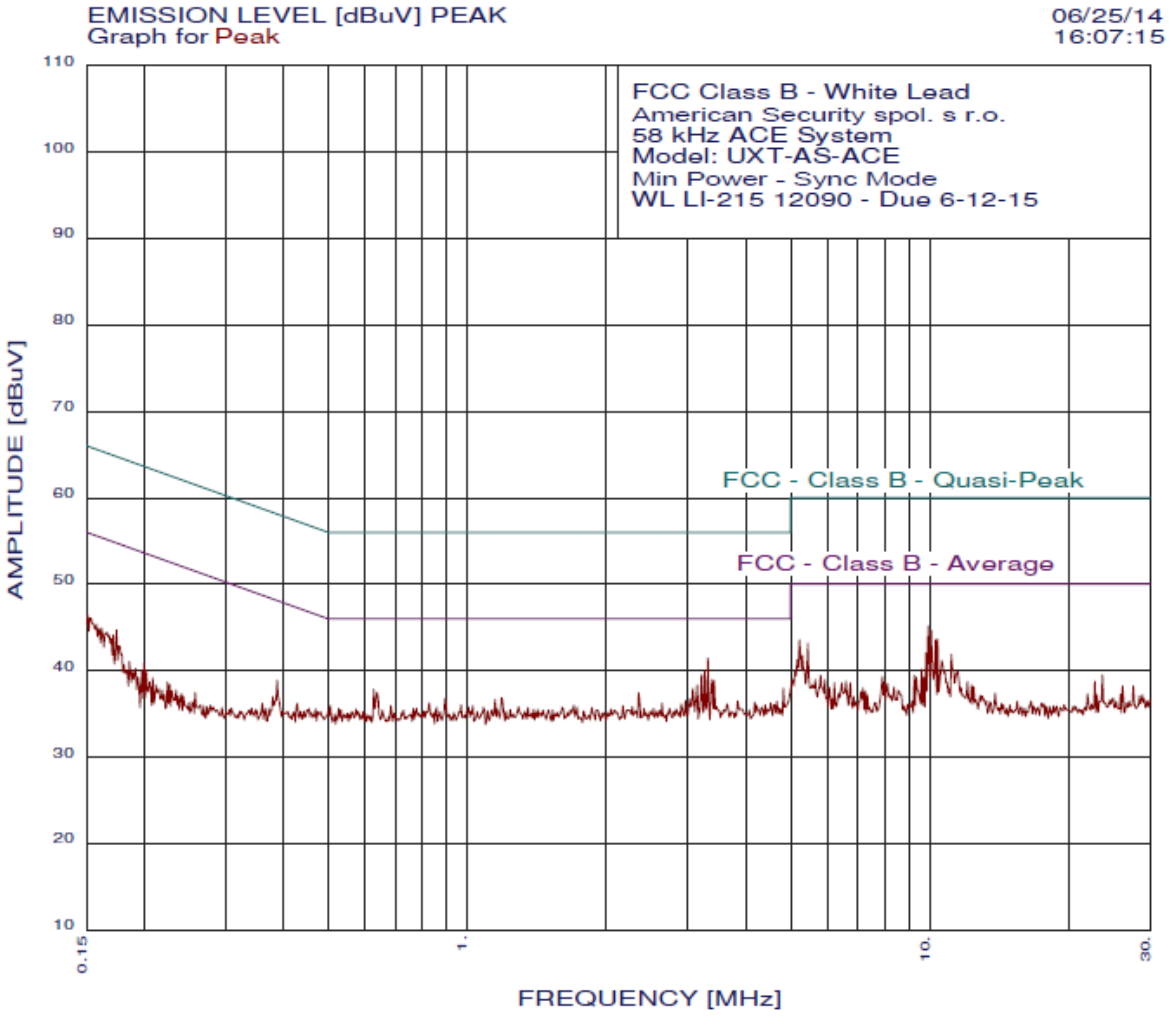
06/25/14 16:15:13

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 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	3.365	38.64	46.00	-7.36
2	3.141	38.04	46.00	-7.96
3	0.391	39.79	48.03	-8.25
4	0.637	37.64	46.00	-8.36
5	3.311	37.34	46.00	-8.66
6	10.348	41.25	50.00	-8.75
7	9.967	41.23	50.00	-8.77
8	1.629	37.07	46.00	-8.93
9	3.075	37.04	46.00	-8.96
10	2.540	37.04	46.00	-8.96
11	0.189	45.05	54.06	-9.01
12	3.260	36.94	46.00	-9.06
13	4.748	36.85	46.00	-9.15
14	3.761	36.84	46.00	-9.16
15	3.547	36.84	46.00	-9.16
16	1.184	36.78	46.00	-9.22
17	3.474	36.74	46.00	-9.26
18	10.129	40.74	50.00	-9.26
19	0.658	36.64	46.00	-9.36
20	10.733	40.56	50.00	-9.44
21	2.582	36.54	46.00	-9.46
22	0.831	36.54	46.00	-9.46
23	0.195	44.32	53.84	-9.52
24	4.576	36.45	46.00	-9.55
25	4.071	36.45	46.00	-9.55
26	0.895	36.44	46.00	-9.56
27	5.114	40.35	50.00	-9.65
28	3.209	36.24	46.00	-9.76
29	0.775	36.24	46.00	-9.76
30	2.932	36.14	46.00	-9.86
31	1.981	36.14	46.00	-9.86
32	0.163	45.36	55.29	-9.93
33	3.683	36.04	46.00	-9.96
34	0.614	36.04	46.00	-9.96
35	2.855	36.04	46.00	-9.96
36	2.156	36.04	46.00	-9.96
37	1.504	35.94	46.00	-10.06
38	11.322	39.88	50.00	-10.12
39	2.397	35.84	46.00	-10.16
40	1.464	35.83	46.00	-10.17
41	1.754	35.79	46.00	-10.21
42	5.335	39.75	50.00	-10.25
43	0.538	35.74	46.00	-10.26
44	1.899	35.72	46.00	-10.28
45	11.086	39.67	50.00	-10.33


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:07:15
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 16:07:15

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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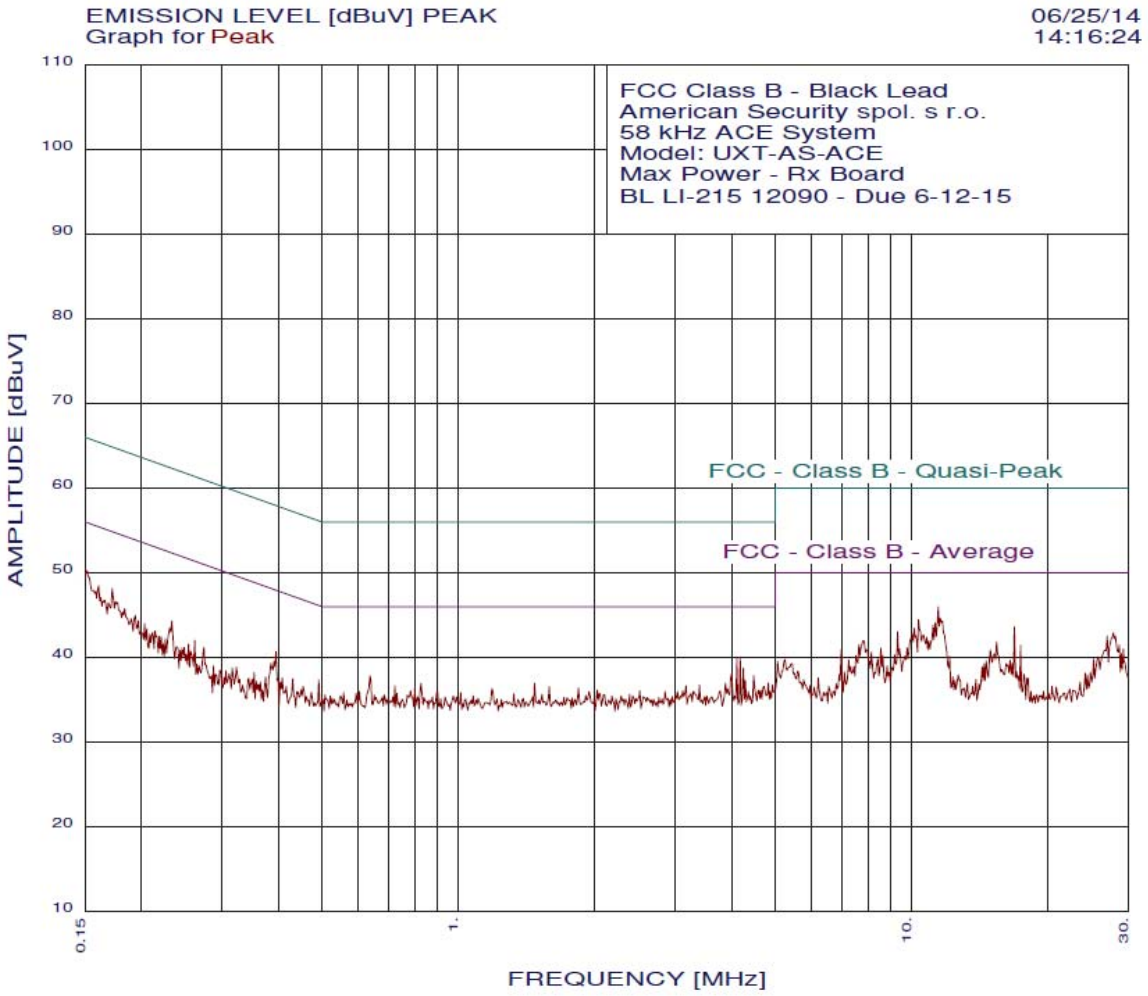
45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.311	41.44	46.00	-4.56
2	9.916	45.13	50.00	-4.87
3	10.074	44.64	50.00	-5.36
4	3.260	40.04	46.00	-5.96
5	10.403	43.65	50.00	-6.35
6	10.293	43.55	50.00	-6.45
7	5.224	43.55	50.00	-6.45
8	3.209	39.54	46.00	-6.46
9	5.449	43.15	50.00	-6.85
10	3.383	38.94	46.00	-7.06
11	3.419	38.84	46.00	-7.16
12	3.141	38.34	46.00	-7.66
13	9.813	42.03	50.00	-7.97
14	4.825	37.94	46.00	-8.06
15	3.075	37.94	46.00	-8.06
16	11.145	41.88	50.00	-8.12
17	0.627	37.84	46.00	-8.16
18	5.307	41.75	50.00	-8.25
19	0.637	37.44	46.00	-8.56
20	2.346	37.44	46.00	-8.56
21	10.623	41.16	50.00	-8.84
22	1.184	36.88	46.00	-9.12
23	0.387	38.89	48.12	-9.23
24	0.895	36.74	46.00	-9.26
25	1.148	36.67	46.00	-9.33
26	2.963	36.54	46.00	-9.46
27	3.841	36.44	46.00	-9.56
28	4.672	36.44	46.00	-9.56
29	4.182	36.34	46.00	-9.66
30	4.528	36.24	46.00	-9.76
31	2.637	36.24	46.00	-9.76
32	0.826	36.24	46.00	-9.76
33	0.152	46.06	55.86	-9.80
34	3.644	36.14	46.00	-9.86
35	2.900	36.14	46.00	-9.86
36	9.608	40.13	50.00	-9.87
37	4.408	36.04	46.00	-9.96
38	0.969	36.04	46.00	-9.96
39	1.699	35.98	46.00	-10.02
40	0.505	35.95	46.00	-10.05
41	1.027	35.94	46.00	-10.06
42	0.683	35.94	46.00	-10.06
43	2.168	35.94	46.00	-10.06
44	0.174	44.68	54.77	-10.08
45	11.498	39.89	50.00	-10.11


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:16:24
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:16:24

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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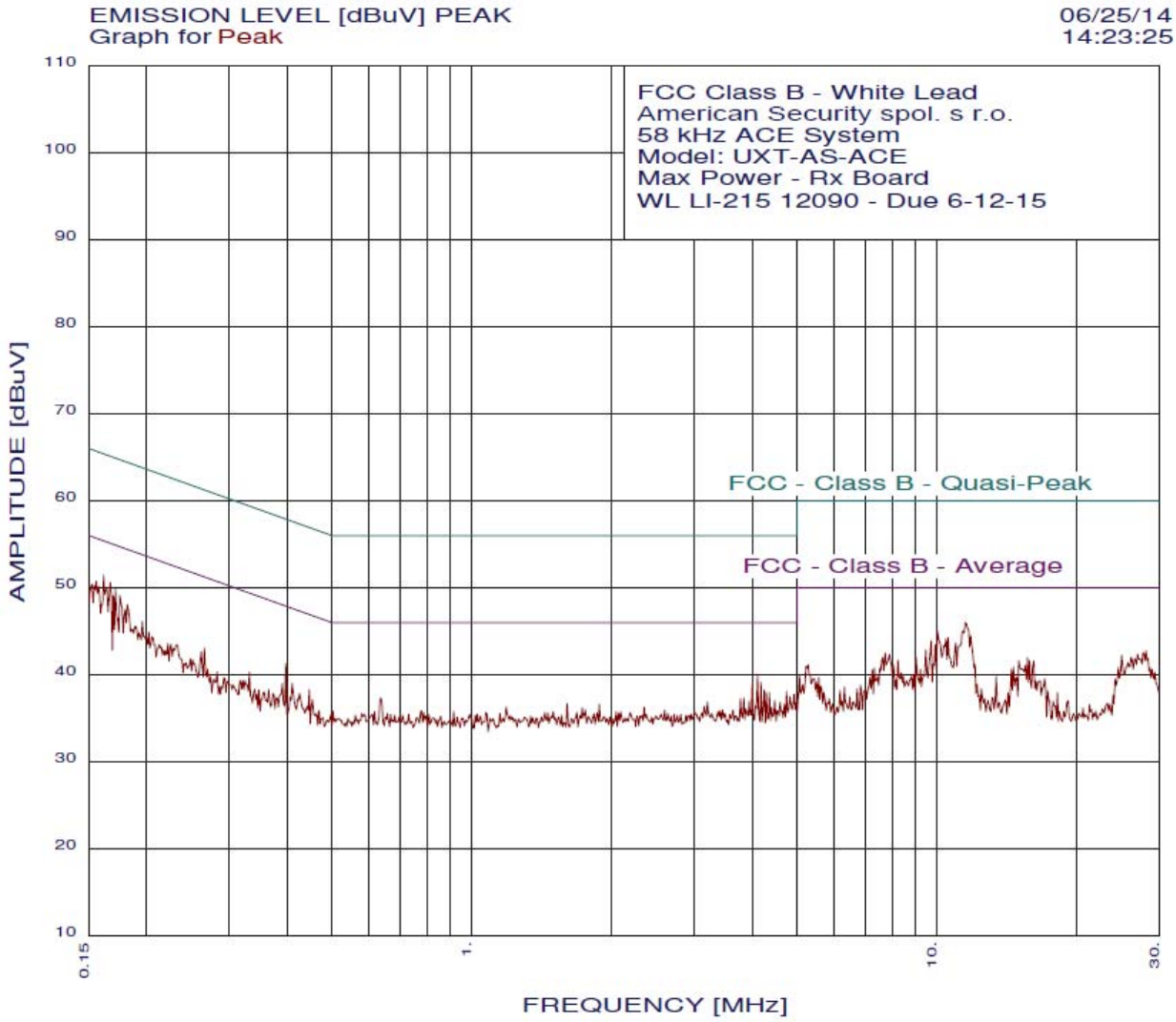
45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	11.439	45.99	50.00	-4.01
2	10.348	44.45	50.00	-5.55
3	11.263	44.08	50.00	-5.92
4	4.182	40.05	46.00	-5.95
5	4.114	39.85	46.00	-6.15
6	11.145	43.77	50.00	-6.23
7	16.849	43.59	50.00	-6.41
8	10.129	43.44	50.00	-6.56
9	0.172	48.12	54.86	-6.74
10	0.161	48.47	55.43	-6.96
11	9.304	43.02	50.00	-6.98
12	27.864	42.88	50.00	-7.12
13	4.249	38.75	46.00	-7.25
14	0.396	40.68	47.95	-7.26
15	26.999	42.52	50.00	-7.48
16	4.008	38.05	46.00	-7.95
17	7.815	42.00	50.00	-8.00
18	0.233	44.25	52.34	-8.10
19	4.480	37.85	46.00	-8.15
20	0.637	37.84	46.00	-8.16
21	15.395	41.83	50.00	-8.17
22	7.648	41.49	50.00	-8.51
23	0.183	45.77	54.33	-8.56
24	17.383	41.41	50.00	-8.59
25	4.294	37.25	46.00	-8.75
26	0.492	37.35	46.14	-8.79
27	9.762	41.13	50.00	-8.87
28	8.551	41.11	50.00	-8.89
29	0.194	44.93	53.88	-8.96
30	29.289	40.99	50.00	-9.01
31	4.825	36.95	46.00	-9.05
32	3.882	36.95	46.00	-9.05
33	0.826	36.94	46.00	-9.06
34	1.472	36.93	46.00	-9.07
35	14.913	40.90	50.00	-9.10
36	6.991	40.88	50.00	-9.12
37	3.401	36.74	46.00	-9.26
38	3.175	36.64	46.00	-9.36
39	0.724	36.64	46.00	-9.36
40	0.262	42.01	51.38	-9.36
41	8.148	40.60	50.00	-9.40
42	1.586	36.56	46.00	-9.44
43	4.722	36.55	46.00	-9.45
44	0.203	43.99	53.49	-9.50
45	29.005	40.47	50.00	-9.53


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:23:25
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:23:25

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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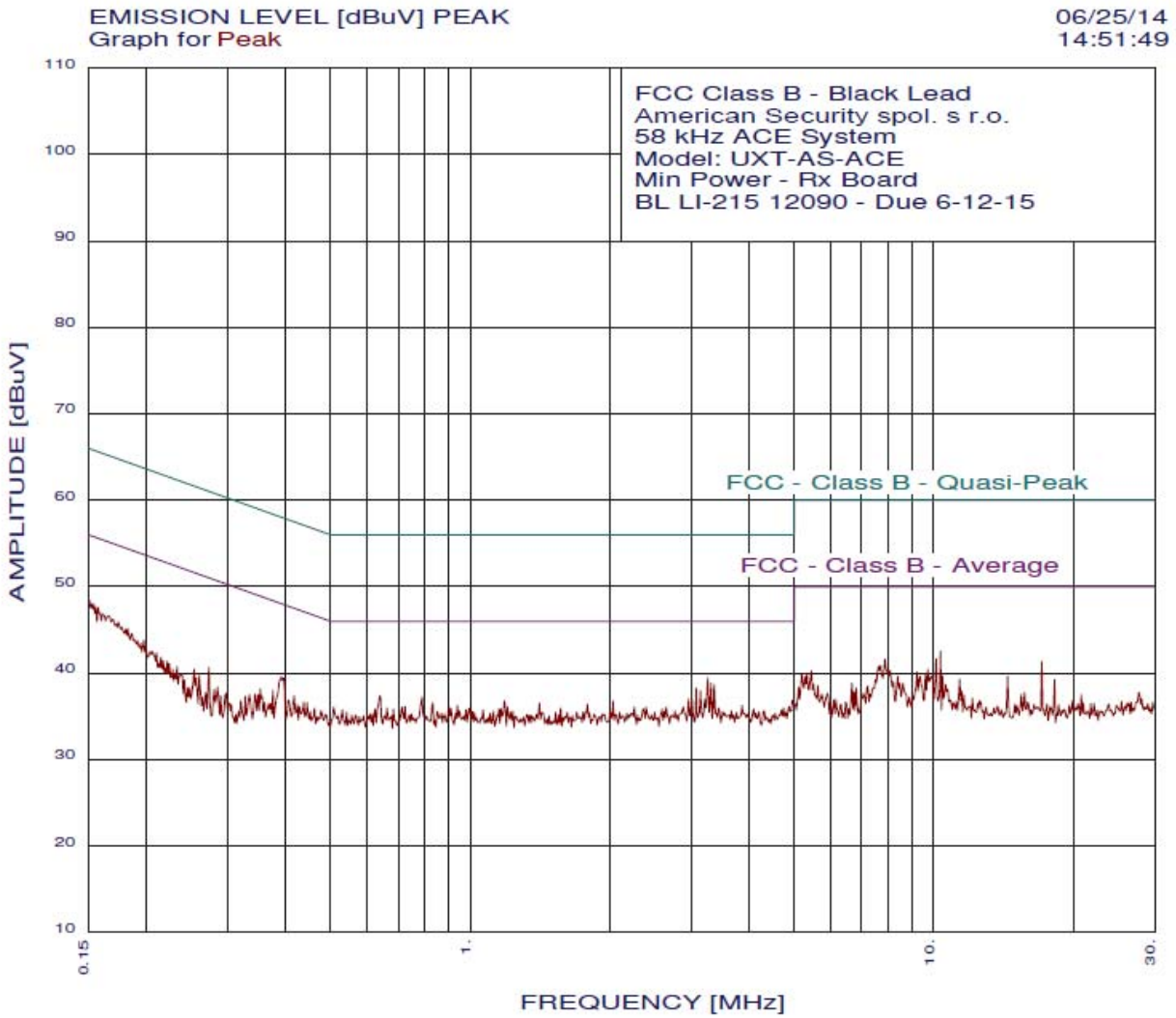
45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.162	51.43	55.38	-3.95
2	11.498	45.99	50.00	-4.01
3	0.167	50.61	55.11	-4.51
4	0.156	50.75	55.69	-4.94
5	10.019	45.04	50.00	-4.96
6	0.171	49.89	54.90	-5.00
7	11.814	44.50	50.00	-5.50
8	0.152	50.36	55.86	-5.50
9	0.175	49.08	54.72	-5.64
10	10.568	44.26	50.00	-5.74
11	10.458	44.15	50.00	-5.85
12	0.170	49.10	54.98	-5.88
13	4.114	40.04	46.00	-5.96
14	9.711	43.83	50.00	-6.17
15	10.968	43.67	50.00	-6.33
16	0.182	48.06	54.41	-6.36
17	9.916	43.43	50.00	-6.57
18	0.398	41.29	47.90	-6.61
19	4.182	39.14	46.00	-6.86
20	0.180	47.46	54.50	-7.04
21	4.008	38.94	46.00	-7.06
22	9.454	42.83	50.00	-7.17
23	28.152	42.75	50.00	-7.25
24	7.731	42.49	50.00	-7.51
25	26.999	42.37	50.00	-7.63
26	0.196	46.11	53.80	-7.69
27	7.898	42.30	50.00	-7.70
28	4.249	38.24	46.00	-7.76
29	24.933	42.22	50.00	-7.78
30	4.748	38.04	46.00	-7.96
31	9.017	42.02	50.00	-7.98
32	26.144	42.01	50.00	-7.99
33	7.648	41.99	50.00	-8.01
34	15.644	41.96	50.00	-8.04
35	4.294	37.94	46.00	-8.06
36	4.361	37.94	46.00	-8.06
37	0.266	43.04	51.24	-8.21
38	4.928	37.74	46.00	-8.26
39	8.238	41.70	50.00	-8.30
40	14.991	41.63	50.00	-8.37
41	16.143	41.58	50.00	-8.42
42	15.810	41.56	50.00	-8.44
43	4.825	37.44	46.00	-8.56
44	0.202	44.88	53.53	-8.65
45	0.411	38.98	47.63	-8.65


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:51:49
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:51:49

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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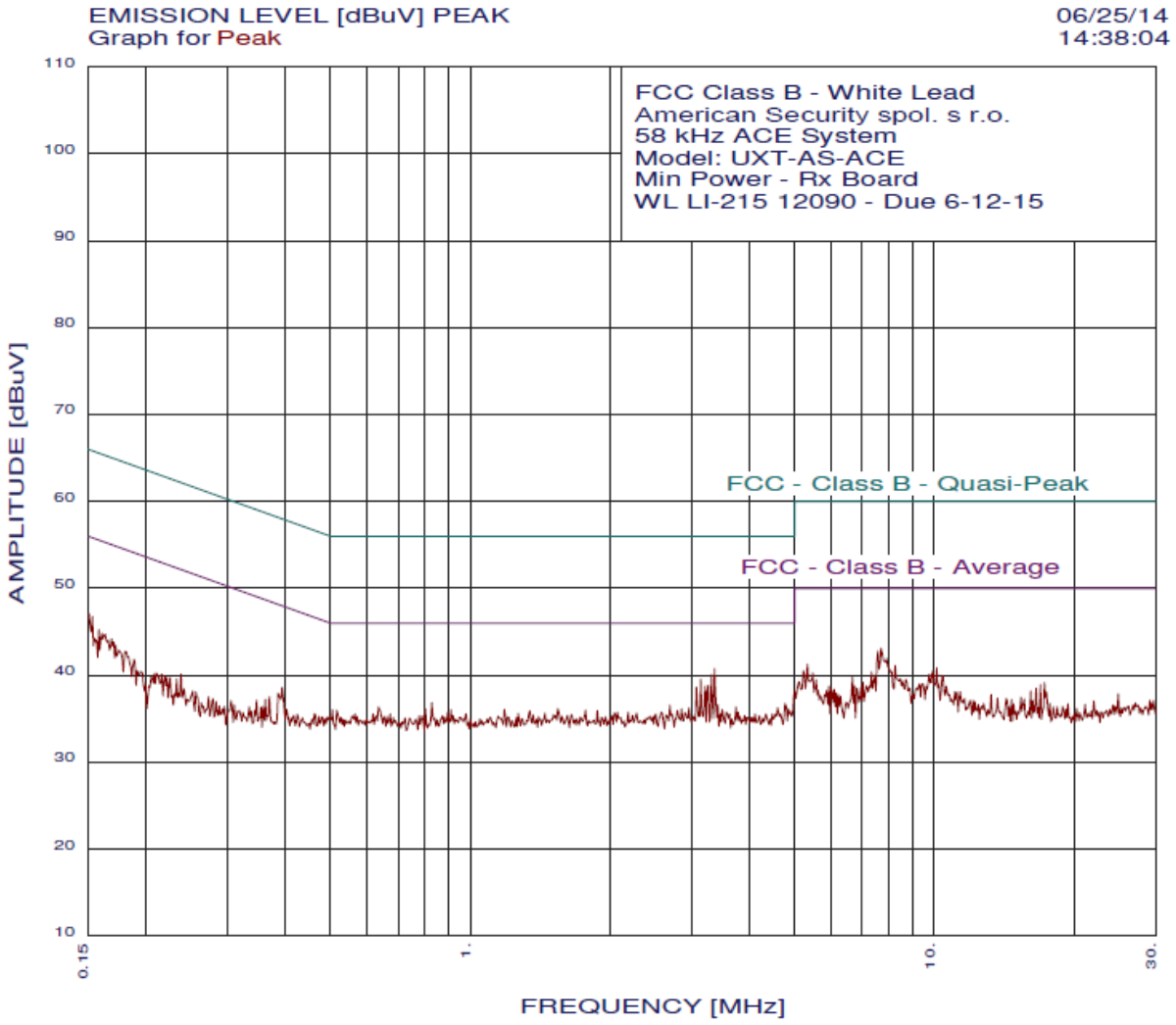
45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.260	39.44	46.00	-6.56
2	3.311	38.84	46.00	-7.16
3	3.365	38.64	46.00	-7.36
4	10.348	42.55	50.00	-7.45
5	3.075	38.24	46.00	-7.76
6	0.157	47.58	55.60	-8.02
7	3.141	37.94	46.00	-8.06
8	10.129	41.64	50.00	-8.36
9	7.856	41.60	50.00	-8.40
10	0.391	39.59	48.03	-8.45
11	0.637	37.34	46.00	-8.66
12	17.116	41.30	50.00	-8.70
13	0.788	37.24	46.00	-8.76
14	2.963	37.04	46.00	-8.96
15	3.011	36.94	46.00	-9.06
16	7.689	40.89	50.00	-9.11
17	4.954	36.85	46.00	-9.15
18	1.184	36.78	46.00	-9.22
19	2.034	36.74	46.00	-9.26
20	0.831	36.54	46.00	-9.46
21	1.412	36.52	46.00	-9.48
22	9.711	40.43	50.00	-9.57
23	1.790	36.40	46.00	-9.60
24	5.449	40.25	50.00	-9.75
25	3.862	36.25	46.00	-9.75
26	0.939	36.24	46.00	-9.76
27	0.724	36.14	46.00	-9.86
28	0.899	36.14	46.00	-9.86
29	9.208	40.12	50.00	-9.88
30	0.198	43.81	53.71	-9.90
31	1.204	36.08	46.00	-9.92
32	0.508	36.05	46.00	-9.95
33	2.885	36.04	46.00	-9.96
34	2.651	36.04	46.00	-9.96
35	2.397	36.04	46.00	-9.96
36	2.262	36.04	46.00	-9.96
37	0.713	36.04	46.00	-9.96
38	1.569	35.95	46.00	-10.05
39	5.335	39.95	50.00	-10.05
40	5.197	39.95	50.00	-10.05
41	4.748	35.95	46.00	-10.05
42	3.438	35.94	46.00	-10.06
43	0.662	35.94	46.00	-10.06
44	0.995	35.94	46.00	-10.06
45	9.608	39.93	50.00	-10.07


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:38:04
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:38:04

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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45 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	3.365	40.74	46.00	-5.26
2	3.311	40.04	46.00	-5.96
3	3.141	39.54	46.00	-6.46
4	7.689	43.09	50.00	-6.91
5	3.260	38.84	46.00	-7.16
6	7.567	42.79	50.00	-7.21
7	3.209	38.74	46.00	-7.26
8	3.075	38.64	46.00	-7.36
9	5.335	41.25	50.00	-8.75
10	8.238	41.10	50.00	-8.90
11	0.153	46.76	55.82	-9.06
12	10.129	40.84	50.00	-9.16
13	0.826	36.84	46.00	-9.16
14	4.774	36.74	46.00	-9.26
15	3.419	36.64	46.00	-9.36
16	0.393	38.59	47.99	-9.40
17	5.224	40.55	50.00	-9.45
18	2.693	36.54	46.00	-9.46
19	9.916	40.43	50.00	-9.57
20	7.333	40.39	50.00	-9.61
21	3.741	36.34	46.00	-9.66
22	0.634	36.34	46.00	-9.66
23	5.479	40.25	50.00	-9.75
24	4.600	36.24	46.00	-9.76
25	2.963	36.24	46.00	-9.76
26	1.544	36.15	46.00	-9.85
27	2.855	36.14	46.00	-9.86
28	0.801	36.14	46.00	-9.86
29	1.184	36.08	46.00	-9.92
30	0.505	36.05	46.00	-9.95
31	3.492	36.04	46.00	-9.96
32	0.909	36.04	46.00	-9.96
33	1.772	35.99	46.00	-10.01
34	10.403	39.95	50.00	-10.05
35	0.516	35.95	46.00	-10.05
36	2.796	35.94	46.00	-10.06
37	1.879	35.91	46.00	-10.09
38	1.345	35.91	46.00	-10.09
39	7.450	39.79	50.00	-10.21
40	6.664	39.77	50.00	-10.23
41	3.565	35.74	46.00	-10.26
42	2.582	35.74	46.00	-10.26
43	2.190	35.74	46.00	-10.26
44	2.077	35.74	46.00	-10.26
45	0.895	35.74	46.00	-10.26