

*FCC PART 15, SUBPART C
TEST REPORT*

for

FM MODULATOR
M/N: CARPLAY WIRELESS PLUS
FCC ID: RJE169233-00

Prepared for

EVER WIN INTERNATIONAL CORP.
9504 TOPANGA CANYON BLVD
CHATSWORTH, CA 91311

Prepared by: _____

REYNALD O. RAMIREZ

Approved by: _____

RUBY A. HALL

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DATE: JANUARY 16, 2007

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
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GENERAL REPORT SUMMARY

This electromagnetic emission 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 in any form except in full, without the written permission of Compatible Electronics.

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

Device Tested: FM Modulator
Model Number: Carplay Wireless Plus
SN: None

Product Description: This is an FM Modulator.

Modifications: The EUT was not modified during the testing.

Manufacturer: Ever Win International Corp.
9504 Topanga Canyon Blvd
Chatsworth, CA 91311

Test Date: January 8, 2007

Test Specifications: EMI requirements
FCC CFR Title 47, Part 15 Subpart A, B and C sections 15.31 (e), 15.109, 15.205, 15.209 and 15.239
Test Procedure: ANSI C63.4: 2003.

Industry Canada Lab Code IC2372-F

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz - 30 MHz.	This is a DC powered device that does not plug into AC Mains therefore this test was deemed unnecessary.
2	Radiated RF Emissions, 9 kHz – 1079 MHz.	Complies with the limits of FCC CFR Title 47, Part 15 Subpart C 15.205, 15.209 and 15.239 and the requirements of 15.31(e).

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the FM Modulator Model Number: Carplay Wireless Plus. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. 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 specification limits defined in FCC CFR Title 47, Part 15 Subpart A (15.31e), Subpart B, 15.109 Subpart C 15.205, 15.209 and 15.239.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 2337 Troutdale Drive, Agoura, California 91301.

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

Ever Win International Corp.

Alex Samson	R & D Engineer
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Compatible Electronics Inc.

Reynald O. Ramirez	Sr. Test Engineer
Ruby A. Hall	Lab Manager

2.4 Date Test Sample was Received

The test sample was received on January 8, 2007.

2.5 Disposition of the Test Sample

The test sample remains at Compatible Electronics Inc.

2.6 Abbreviations and Acronyms

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

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
FCC CFR Title 47, Subpart C Subpart B Subpart A	FCC Rules – Intentional Radiators. FCC Rules - Unintentional Radiators General
CISPR 16 1993	Specification for radio disturbance and immunity measuring apparatus and methods.
ANSI C63.4 2003	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 - EMI

The EUT was set-up in a tabletop configuration. The EUT was connected to a Zune MP3 Player via the dock connector port. The input connector of the EUT allows the audio device, a Zune MP3 Player in this case, to be charged by the vehicle battery while connected. The volume on the Zune MP3 Player was set at its maximum level. The EUT was continuously transmitting in this mode throughout the test. The output was monitored through a receiver which was located with the EUT. The EUT transmitting antenna is a fixed element; which connects directly to the PCB board.

The highest emissions were found when the EUT was running in the above configuration. The EUT was tested in X, Y and Z axis even though it is intended for use in a dashboard mounted cigarette lighter port. The cables were moved to maximize the emissions. The final radiated data was taken in this mode of operation. All initial investigations were performed with the spectrum analyzer in manual mode scanning the frequency range continuously. The cables were routed as shown in the photographs in Appendix D.

4.1.1 Photograph of Test Configuration - EMI



4.1.2 Cable Construction and Termination

Cable 1 This is a 40 cm unshielded round cable that connects the EUT to the Zune. The cable has a Car accessory port, power adapter at one end and has a 25 pin inline locking connector at the Zune end. The EUT is hardwired in the middle of the cable.

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

#	EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER
1	FM MODULATOR (EUT)	EVER WIN INTERNATIONAL CORP.	CARPLAY WIRELESS PLUS	S/N: NONE FCC ID: RJE169233-00
2	MP3 PLAYER	ZUNE	1090	S/N: 057750464110
3	CAR ACCESSORY PORT POWER ADAPTER	EVER WIN INTERNATIONAL CORP.	NONE	NONE
4	BATTERY	PANASONIC	LC-RA1212P1	NONE

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Spectrum Analyzer	Hewlett Packard	8566B	3638A08784	May 26, 2006	May 26, 2007
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 26, 2006	May 26, 2007
Preamplifier	Com Power	PA-103	1619	Dec. 27, 2006	Dec. 27, 2007
Microwave Amplifier	Com-Power	PA-122	181915	Mar. 22, 2006	Mar. 22, 2007
Loop Antenna	Com Power	AL-130	17067	Aug. 1, 2006	Aug. 1, 2007
Biconical Antenna	Com Power	AB-900	15283	Dec. 28, 2006	Dec. 28, 2007
Log Periodic Antenna	Com Power	AL-100	16200	Dec. 28, 2006	Dec. 28, 2007
Horn Antenna	A.R.A.	DRG-118	1015	July 26, 2006	July 26, 2008
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TTW-595	N/A	N/A	N/A
Computer	Hewlett Packard	Pavilion 4530	US91912022	N/A	N/A
Printer	Hewlett Packard	C6427B	MY066160TW	N/A	N/A
Radiated Emissions Test Software	Compatible Electronics	Vcap1A	2.3	N/A	N/A

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

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

6.2 EUT Mounting, Bonding and Grounding

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

The EUT was not grounded.

7. TEST PROCEDURES

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

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The EUT is DC powered and does not connect to AC Mains therefore this test was deemed unnecessary.

The Spectrum Analyzer was used as a measuring meter along with the quasi-peak adapter. 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 10 dB attenuation pad was used for the protection of the Spectrum Analyzer input stage, and the Spectrum Analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the Spectrum Analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions 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 initial test data was taken in manual mode while scanning the frequency ranges of 150 kHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

7.1.2 Radiated Emissions Test

The spectrum analyzer was used as a measuring meter along with a 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. This final reading is then recorded into the a Computer data recording program, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. The quasi-peak was used only for those readings, which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was according to the frequency measured (200 Hz for 9kHz-150kHz, 9 kHz for 0.150kHz-30MHz and 120 kHz for 30-1000 MHz and 1 MHz for 1 GHz and above).

Broadband loop, biconical, log periodic and horn antennas were used as transducers during the measurement. The loop antenna was used from 9 kHz to 30 MHz, the biconical antenna was used from 30 MHz to 300 MHz, the log periodic antenna was used from 300 MHz to 1000 MHz and the horn antenna was used above 1 GHz. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

In the frequency range of 9kHz to 30MHz, a calibrated loop antenna was used and positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The loop antenna was also positioned horizontally at the specified distance from the EUT. The center of the loop shall be 1 m above the ground.

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

7.1.3 RF Emissions Test Results

The fundamental and up to the 10th harmonic emissions are within the specifications.

EVER WIN INTERNATIONAL CORP.
FM Modulator

RADIATED EMISSIONS – SPURIOUS

The Frequency Band from 9 kHz to 1 GHz was specifically scanned. Please see data in Appendix E.

RADIATED EMISSION – BAND EDGE 15.239 (a)

The emission from the intentional radiator are confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band lies wholly within the frequency range of 88-108 MHz. See Appendix E for the plots.

7.1.4 Sample Calculations

A correction factor for the antenna, cable and a distance factor (if any) must be applied to the meter reading before a true field strength reading can be obtained. This Corrected Meter Reading is then compared to the specification limit in order to determine compliance with the limits.

The equation can be derived in the following manner:

Specification limit ($\mu\text{V}/\text{m}$) $\log \times 20$ = Specification Limit in dBuV

(Specification distance / test distance) $\log \times 40$ = distance factor

Note: When using an Active Antenna, the Antenna factor shall be subtracted due to the combination of the internal amplification and antenna loss. At lower frequencies the cable loss is negligible.

OR

Corrected Meter Reading = meter reading + F – A + C

where: F = antenna factor
A = amplifier gain
C = cable loss

The correction factors for the antenna and the amplifier gain are attached in Appendix D of this report. The data sheets are attached in Appendix E.

The distance factor D is 0 when the test is performed at the required specification distance.

Average Measurements

The frequencies that were averaged were done manually by narrowing the video filter down to 10 Hz and setting the sweep time to AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

8. TEST PROCEDURE DEVIATIONS

There were no deviations from the test procedures.

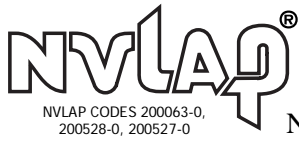
9. CONCLUSIONS

The FM Modulator Model Number: Carplay Wireless Plus meets all of the requirements of the FCC CFR, Title 47, Part 15 Subpart A, Section 15.31(e), Subpart B 15.109, Subpart C 15.205, 15.207, 15.209 and 15.239.

APPENDIX A

LABORATORY ACCREDITATIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS



For US, Canada, Australia/New Zealand, Taiwan and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025 an ISO 9002 equivalent. Please follow the link to the NIST site for each of our facilities NVLAP certificate and scope of accreditation.

Silverado/Lake Forest Division: <http://ts.nist.gov/ts/htdocs/210/214/scopes/2005270.htm>

Brea Division: <http://ts.nist.gov/ts/htdocs/210/214/scopes/2005280.htm>

Agoura Division: <http://ts.nist.gov/ts/htdocs/210/214/scopes/2000630.htm>



Compatible Electronics has been accredited by ANSI and appointed by the FCC to serve as a Telecommunications Certification Body (TCB). Compatible Electronics ANSI TCB listing can be found at: http://www.ansi.org/public/ca/ansi_cp.html



Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA). Compatible Electronics NIST US/EU CAB listing can be found at: <http://ts.nist.gov/ts/htdocs/210/gsig/emc-cabs-mar02.pdf>



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). Compatible Electronics NIST US/APEC CAB listing can be found at: <http://ts.nist.gov/ts/htdocs/210/gsig/apec/bsmi-cabs-may02.pdf>



Compatible Electronics has been validated by NEMKO against ISO/IEC 17025 under the NEMKO EMC Laboratory Authorization (ELA) program to all EN standards required by the European Union (EU) EMC Directive 89/336/EEC. Please follow the link to the Compatible Electronics' web site for each of our facilities NEMKO ELA certificate and scope of accreditation. <http://www.celectronics.com/certs.htm>

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



Compatible Electronics VCCI listing can be found at: http://www.vcci.or.jp/vcci_e/member/tekigo/setsubi_index_id.html

Just type "Compatible Electronics" into the Keyword search box.



Compatible Electronics FCC listing can be found at: https://gullfoss2.fcc.gov/prod/oet/index_ie.html

Just type "Compatible Electronics" into the Test Firms search box.



Compatible Electronics IC listing can be found at: http://spectrum.ic.gc.ca/~cert/labs/oats_lab_c_e.html

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

There were no modifications made to the EUT during the test.

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

FM MODULATOR
M/N: CARPLAY WIRELESS PLUS
S/N: NONE

There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS AND PHOTOS

COM-POWER AL-130
ACTIVE LOOP ANTENNA

S/N: 17067

CALIBRATION DATE: AUGUST 1, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
0.009	11.8	1	11.0
0.01	11.2	2	11.4
0.02	10.5	3	11.2
0.03	12.2	4	11.1
0.04	11.6	5	11.7
0.05	10.3	6	11.7
0.06	10.7	7	11.3
0.07	10.5	8	11.3
0.08	10.4	9	11.6
0.09	10.7	10	11.3
0.1	10.7	15	10.2
0.2	7.9	20	10.4
0.3	10.4	25	9.8
0.4	10.4	30	10.4
0.5	10.4		
0.6	11.0		
0.7	10.8		
0.8	10.6		
0.9	10.7		

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15283

CALIBRATION DATE: DEC. 28, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.21	120	13.42
35	8.45	125	14.16
40	11.54	140	14.21
45	12.75	150	14.06
50	9.69	160	14.31
55	10.24	175	14.51
60	10.27	180	15.19
65	9.86	200	16.51
70	7.96	225	14.84
80	9.72	250	16.72
90	10.69	275	20.75
100	13.23	300	17.82

COM-POWER AL-100
LOG PERIODIC ANTENNA

S/N: 16200

CALIBRATION DATE: DEC. 28, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.73	650	21.56
330	12.92	700	20.03
340	13.56	725	21.93
350	13.87	750	21.80
360	14.40	800	20.08
370	13.39	850	23.25
400	14.50	900	24.72
425	16.39	925	25.23
450	18.87	950	25.13
500	21.36	975	26.01
550	22.81	1000	25.25
600	23.77		

DRG-118/A

DOUBLE RIDGE HORN ANTENNA

S/N: 1015

CALIBRATION DATE: JULY 26, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000	24.6	10000	39.2
1500	25.4	10500	40.2
2000	27.9	11000	39.4
2500	28.6	11500	40.0
3000	30.1	12000	40.7
3500	30.7	12500	40.6
4000	30.8	13000	40.0
4500	31.6	13500	41.1
5000	33.5	14000	42.7
5500	33.6	14500	43.1
6000	34.1	15000	41.9
6500	35.1	15500	38.8
7000	37.4	16000	39.6
7500	39.5	16500	39.0
8000	38.2	17000	41.6
8500	37.5	17500	43.5
9000	38.0	18000	45.5
9500	38.6		

COM-POWER PA-103**PREAMPLIFIER****S/N: 1619****CALIBRATION DATE: DEC. 27, 2006**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	30.0	300	29.2
40	30.4	350	29.1
50	30.2	400	28.9
60	30.3	450	28.7
70	29.6	500	29.4
80	30.3	550	28.3
90	29.8	600	28.4
100	30.2	650	28.3
125	30.4	700	28.7
150	30.2	750	27.6
175	30.5	800	28.0
200	29.5	850	26.8
225	28.7	900	26.8
250	28.6	950	26.4
275	28.3	1000	26.8

COM-POWER PA-122**PREAMPLIFIER****S/N: 181915****CALIBRATION DATE: MARCH 22, 2006**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000	31.9	7000	27.5
1100	31.7	7500	29.1
1200	31.5	8000	29.6
1300	31.5	8500	28.6
1400	31.3	9000	25.2
1500	31.5	9500	28.8
1600	31.1	10000	25.6
1700	31.3	11000	21.7
1800	31.3	12000	28.2
1900	31.7	13000	27.2
2000	31.0	14000	27.2
2500	30.6	15000	25.3
3000	30.8	16000	23.3
3500	31.1	17000	24.4
4000	29.3	18000	28.5
4500	30.8		
5000	30.2		
5500	30.4		
6000	29.1		
6500	28.6		



FRONT VIEW

EVER WIN INTERNATIONAL CORP.

FM MODULATOR

MODEL: CARPLAY WIRELESS PLUS

FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

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



REAR VIEW

EVER WIN INTERNATIONAL CORP.
FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

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



X AXIS

EVER WIN INTERNATIONAL CORP.
FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

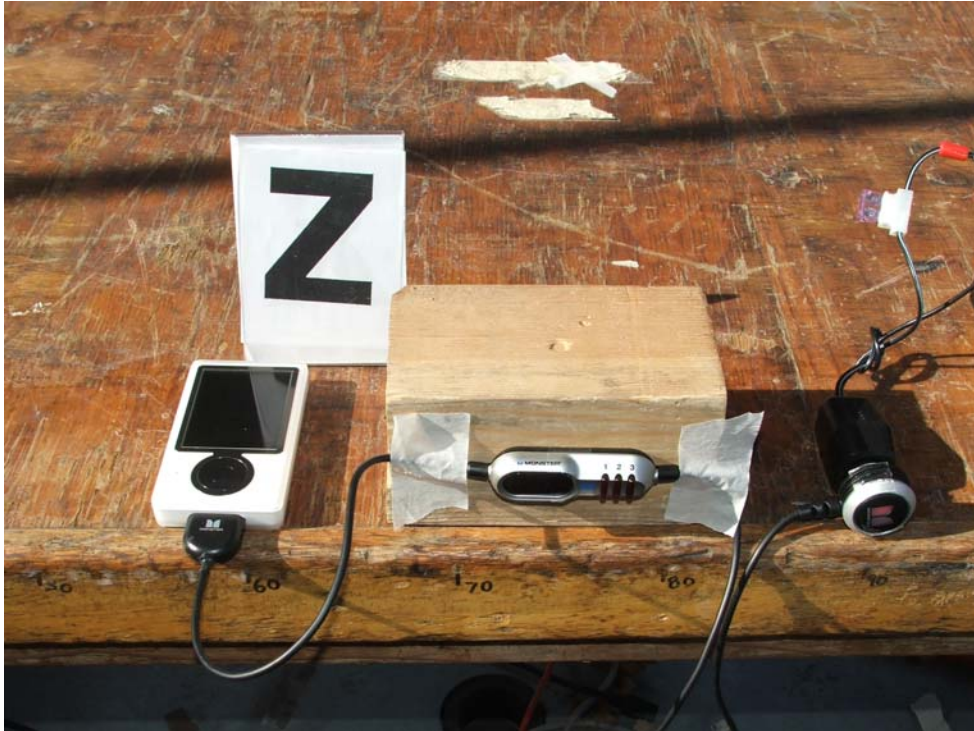
PHOTOGRAPH SHOWING THE EUT CONFIGURATION



Y AXIS

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FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

PHOTOGRAPH SHOWING THE EUT CONFIGURATION



Z AXIS

EVER WIN INTERNATIONAL CORP.

FM MODULATOR

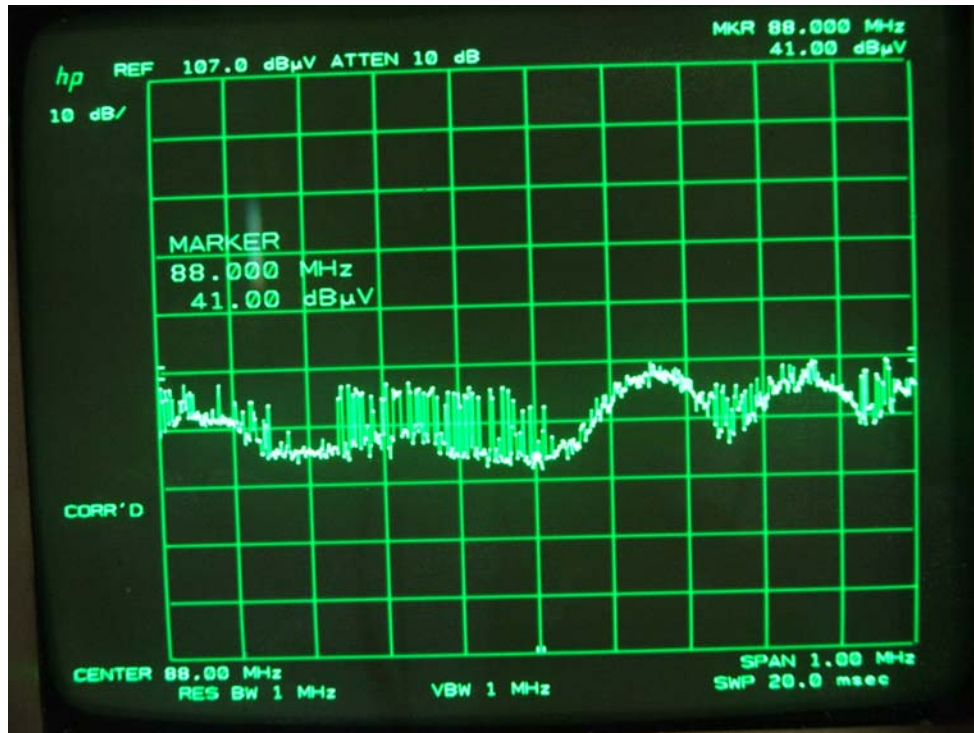
MODEL: CARPLAY WIRELESS PLUS

FCC PART 15 SUBPART C - RADIATED EMISSIONS – 1-8-07

PHOTOGRAPH SHOWING THE EUT CONFIGURATION

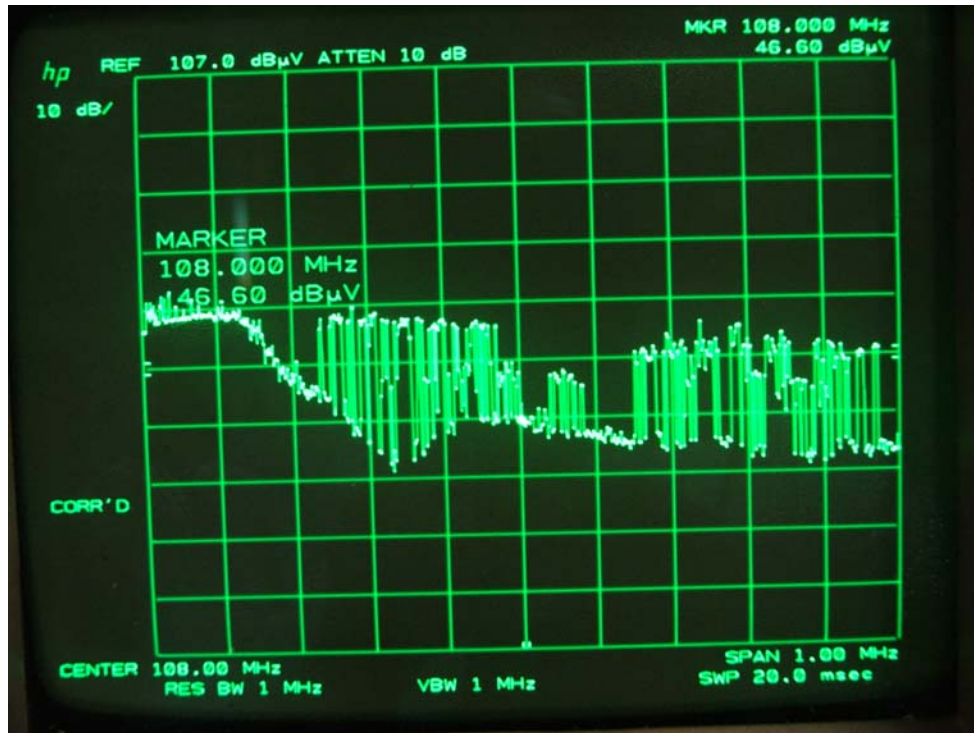
APPENDIX E

DATA SHEETS



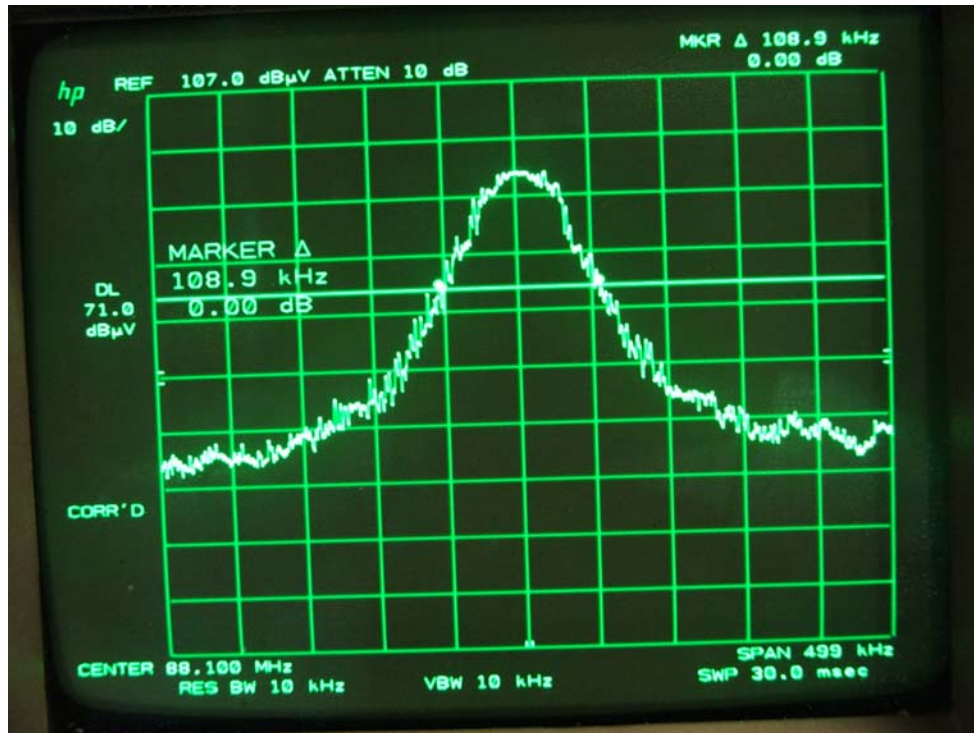
EVER WIN INTERNATIONAL CORP.
FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C – BAND EDGE 88 MHz

PHOTOGRAPH SHOWING THE LOWER BAND EDGE



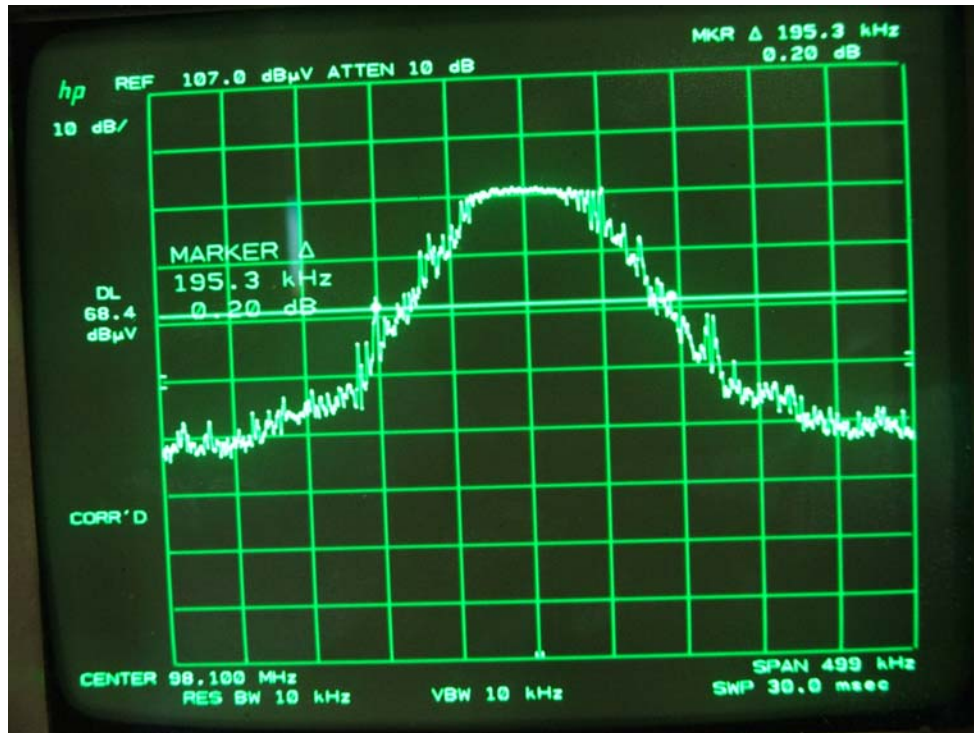
EVER WIN INTERNATIONAL CORP.
FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C – BAND EDGE 108 MHz

PHOTOGRAPH SHOWING THE UPPER BAND EDGE



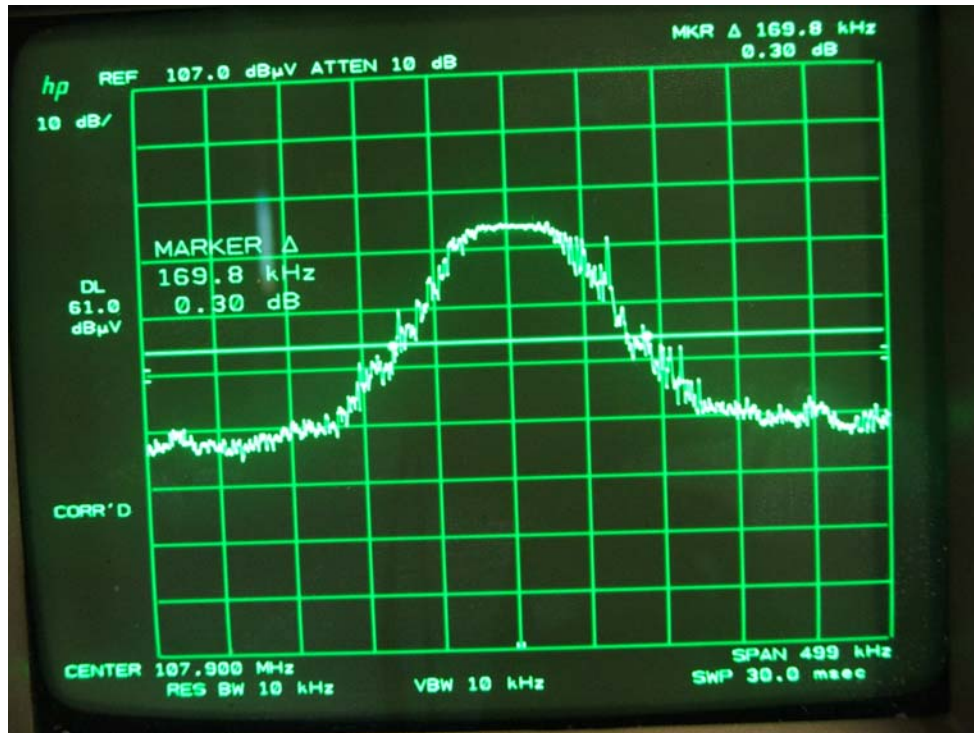
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FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C – 15.239 (a)

**PHOTOGRAPH SHOWING THE LOW CHANNEL
88.1 MHz 108.9 kHz**



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FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C – 15.239 (a)

**PHOTOGRAPH SHOWING THE MID CHANNEL
98.1 MHz 195.3 kHz**



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FM MODULATOR
MODEL: CARPLAY WIRELESS PLUS
FCC PART 15 SUBPART C – 15.239 (a)

**PHOTOGRAPH SHOWING THE UPPER CHANNEL
107.9 MHz 169.8 kHz**

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics Page : 1/1
Customer : Alex Samson Date : 01/08/2007
Manufacturer : Everwin International Time : 11:27:51 AM
Eut name : FM Modulator Lab : F
Model : Cardisplay Wireless Plus Test Distance : 3.00 Meters
Serial # : N/A
Specification : FCC Pt. 15- Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Band Edge Measurements 88-108
Test Engineer: R. Ramirez

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
1V	88.000	41.00	2.98	10.50	29.90	24.59	40.00	-15.41
2V	108.000	46.60	3.13	13.31	30.27	32.78	43.50	-10.72

RADIATED EMISSIONS

COMPANY NAME: Everwin International | DATE: 1/8/07

EUT: FM Modulator EUT S/N: N/A

EUT MODEL: Cardisplay Wireless P45 LOCATION: ☐ BREA ☐ SILVERADO ☒ AGOURA

SPECIFICATION: Full CLASS: B TEST DISTANCE: 3m LAB: F

ANTENNA: ☒ LOOP ☐ BICONICAL ☐ LOG ☐ HORN POLARIZATION: ☐ VERT ☐ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: R. Ramirez

NOTES:	Pol. A	Pol. B
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[illegible]

* DELTA = METER READING - CORRECTED LIMIT

RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
88.1000	31.9	A	H	4.0	0	X	LOW	10.5	3.0	0.0	0.0	0.0	45.4	-2.6	48.0	
88.1000	30.6	A	H	4.0	0	Y	LOW	10.5	3.0	0.0	0.0	0.0	44.1	-3.9	48.0	
88.1000	30.8	A	H	4.0	0	Z	LOW	10.5	3.0	0.0	0.0	0.0	44.3	-3.7	48.0	
88.1000	31.0	A	V	1.0	0	X	LOW	10.5	3.0	0.0	0.0	0.0	44.5	-3.5	48.0	
88.1000	30.3	A	V	1.0	0	Y	LOW	10.5	3.0	0.0	0.0	0.0	43.8	-4.2	48.0	
88.1000	30.2	A	V	1.0	0	Z	LOW	10.5	3.0	0.0	0.0	0.0	43.7	-4.3	48.0	
98.1000	30.2	A	H	4.0	0	X	MED.	12.7	3.1	0.0	0.0	0.0	46.0	-2.0	48.0	
98.1000	30.5	A	H	4.0	0	Y	MED.	12.7	3.1	0.0	0.0	0.0	46.3	-1.7	48.0	
98.1000	29.7	A	H	4.0	0	Z	MED.	12.7	3.1	0.0	0.0	0.0	45.5	-2.5	48.0	
98.1000	30.6	A	V	1.0	0	X	MED.	12.7	3.1	0.0	0.0	0.0	46.4	-1.6	48.0	
98.1000	29.8	A	V	1.0	0	Y	MED.	12.7	3.1	0.0	0.0	0.0	45.6	-2.4	48.0	
98.1000	30.3	A	V	1.0	0	Z	MED.	12.7	3.1	0.0	0.0	0.0	46.1	-1.9	48.0	
107.9000	30.5	A	H	4.0	0	X	HIGH	13.3	3.1	0.0	0.0	0.0	46.9	-1.1	48.0	
107.9000	29.7	A	H	4.0	0	Y	HIGH	13.3	3.1	0.0	0.0	0.0	46.1	-1.9	48.0	
107.9000	30.2	A	H	4.0	0	Z	HIGH	13.3	3.1	0.0	0.0	0.0	46.6	-1.4	48.0	
107.9000	29.4	A	V	1.0	0	X	HIGH	13.3	3.1	0.0	0.0	0.0	45.8	-2.2	48.0	
107.9000	30.5	A	V	1.0	0	Y	HIGH	13.3	3.1	0.0	0.0	0.0	46.9	-1.1	48.0	
107.9000	30.4	A	V	1.0	0	Z	HIGH	13.3	3.1	0.0	0.0	0.0	46.8	-1.2	48.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
176.2000	40.1	A	H	2.0	0	X	LOW	14.7	3.4	30.2	0.0	0.0	28.0	-15.5	43.5	
176.2000	36.0	A	H	2.0	0	Y	LOW	14.7	3.4	30.2	0.0	0.0	23.9	-19.6	43.5	
176.2000	38.3	A	H	2.0	0	Z	LOW	14.7	3.4	30.2	0.0	0.0	26.2	-17.3	43.5	
176.2000		A	V			X	LOW	14.7	3.4	30.2	0.0				43.5	No frequency found
176.2000		A	V			Y	LOW	14.7	3.4	30.2	0.0				43.5	
176.2000		A	V			Z	LOW	14.7	3.4	30.2	0.0				43.5	
196.2000	40.5	A	H	2.0	0	X	MED.	16.3	3.9	29.9	0.0	0.0	30.8	-12.7	43.5	
196.2000	43.2	A	H	2.0	0	Y	MED.	16.3	3.9	29.9	0.0	0.0	33.5	-10.0	43.5	
196.2000	40.0	A	H	2.0	0	Z	MED.	16.3	3.9	29.9	0.0	0.0	30.3	-13.2	43.5	
196.2000		A	V			X	MED.	16.3	3.9	29.9	0.0				43.5	No frequency found
196.2000		A	V			Y	MED.	16.3	3.9	29.9	0.0				43.5	
196.2000		A	V			Z	MED.	16.3	3.9	29.9	0.0				43.5	
215.8000		A	H			X	HIGH	16.6	3.9	29.8	0.0				43.5	No frequency found
215.8000		A	H			Y	HIGH	16.6	3.9	29.8	0.0				43.5	
215.8000		A	H			Z	HIGH	16.6	3.9	29.8	0.0				43.5	
215.8000		A	V			X	HIGH	16.6	3.9	29.8	0.0				43.5	No frequency found
215.8000		A	V			Y	HIGH	16.6	3.9	29.8	0.0				43.5	
215.8000		A	V			Z	HIGH	16.6	3.9	29.8	0.0				43.5	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
264.3000		A	H			X	LOW	17.0	4.5	30.2	0.0				46.0	No frequencies found
264.3000		A	H			Y	LOW	17.0	4.5	30.2	0.0				46.0	
264.3000		A	H			Z	LOW	17.0	4.5	30.2	0.0				46.0	
264.3000		A	V			X	LOW	17.0	4.5	30.2	0.0				46.0	
264.3000		A	V			Y	LOW	17.0	4.5	30.2	0.0				46.0	
264.3000		A	V			Z	LOW	17.0	4.5	30.2	0.0				46.0	
294.3000		QP	H			X	MED.	17.7	4.5	30.1	0.0				46.0	
294.3000		QP	H			Y	MED.	17.7	4.5	30.1	0.0				46.0	
294.3000		QP	H			Z	MED.	17.7	4.5	30.1	0.0				46.0	
294.3000		QP	V			X	MED.	17.7	4.5	30.1	0.0				46.0	
294.3000		QP	V			Y	MED.	17.7	4.5	30.1	0.0				46.0	
294.3000		QP	V			Z	MED.	17.7	4.5	30.1	0.0				46.0	
323.7000		QP	H			X	HIGH	13.3	4.7	30.0	0.0				46.0	
323.7000		QP	H			Y	HIGH	13.3	4.7	30.0	0.0				46.0	
323.7000		QP	H			Z	HIGH	13.3	4.7	30.0	0.0				46.0	
323.7000		QP	V			X	HIGH	13.3	4.7	30.0	0.0				46.0	
323.7000		QP	V			Y	HIGH	13.3	4.7	30.0	0.0				46.0	
323.7000		QP	V			Z	HIGH	13.3	4.7	30.0	0.0				46.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
352.4000		A	H			X	LOW	13.9	4.8	29.9	0.0				46.0	No fequencies found
352.4000		A	H			Y	LOW	13.9	4.8	29.9	0.0				46.0	
352.4000		A	H			Z	LOW	13.9	4.8	29.9	0.0				46.0	
352.4000		A	V			X	LOW	13.9	4.8	29.9	0.0				46.0	
352.4000		A	V			Y	LOW	13.9	4.8	29.9	0.0				46.0	
352.4000		A	V			Z	LOW	13.9	4.8	29.9	0.0				46.0	
392.4000		QP	H			X	MED.	14.4	5.2	30.5	0.0				46.0	
392.4000		QP	H			Y	MED.	14.4	5.2	30.5	0.0				46.0	
392.4000		QP	H			Z	MED.	14.4	5.2	30.5	0.0				46.0	
392.4000		QP	V			X	MED.	14.4	5.2	30.5	0.0				46.0	
392.4000		QP	V			Y	MED.	14.4	5.2	30.5	0.0				46.0	
392.4000		QP	V			Z	MED.	14.4	5.2	30.5	0.0				46.0	
431.6000		QP	H			X	HIGH	17.3	5.7	29.5	0.0				46.0	
431.6000		QP	H			Y	HIGH	17.3	5.7	29.5	0.0				46.0	
431.6000		QP	H			Z	HIGH	17.3	5.7	29.5	0.0				46.0	
431.6000		QP	V			X	HIGH	17.3	5.7	29.5	0.0				46.0	
431.6000		QP	V			Y	HIGH	17.3	5.7	29.5	0.0				46.0	
431.6000		QP	V			Z	HIGH	17.3	5.7	29.5	0.0				46.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
440.5000		A	H			X	LOW	18.0	5.9	29.2	0.0				46.0	No frequencies found
440.5000		A	H			Y	LOW	18.0	5.9	29.2	0.0				46.0	
440.5000		A	H			Z	LOW	18.0	5.9	29.2	0.0				46.0	
440.5000		A	V			X	LOW	18.0	5.9	29.2	0.0				46.0	
440.5000		A	V			Y	LOW	18.0	5.9	29.2	0.0				46.0	
440.5000		A	V			Z	LOW	18.0	5.9	29.2	0.0				46.0	
490.5000		QP	H			X	MED.	20.9	5.9	30.1	0.0				46.0	
490.5000		QP	H			Y	MED.	20.9	5.9	30.1	0.0				46.0	
490.5000		QP	H			Z	MED.	20.9	5.9	30.1	0.0				46.0	
490.5000		QP	V			X	MED.	20.9	5.9	30.1	0.0				46.0	
490.5000		QP	V			Y	MED.	20.9	5.9	30.1	0.0				46.0	
490.5000		QP	V			Z	MED.	20.9	5.9	30.1	0.0				46.0	
539.5000		QP	H			X	HIGH	22.5	5.5	29.6	0.0				46.0	
539.5000		QP	H			Y	HIGH	22.5	5.5	29.6	0.0				46.0	
539.5000		QP	H			Z	HIGH	22.5	5.5	29.6	0.0				46.0	
539.5000		QP	V			X	HIGH	22.5	5.5	29.6	0.0				46.0	
539.5000		QP	V			Y	HIGH	22.5	5.5	29.6	0.0				46.0	
539.5000		QP	V			Z	HIGH	22.5	5.5	29.6	0.0				46.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
528.6000		A	H			X	LOW	22.2	5.6	29.8	0.0				46.0	No frequencies found
528.6000		A	H			Y	LOW	22.2	5.6	29.8	0.0				46.0	
528.6000		A	H			Z	LOW	22.2	5.6	29.8	0.0				46.0	
528.6000		A	V			X	LOW	22.2	5.6	29.8	0.0				46.0	
528.6000		A	V			Y	LOW	22.2	5.6	29.8	0.0				46.0	
528.6000		A	V			Z	LOW	22.2	5.6	29.8	0.0				46.0	
588.6000		QP	H			X	MED.	23.6	6.5	29.5	0.0				46.0	
588.6000		QP	H			Y	MED.	23.6	6.5	29.5	0.0				46.0	
588.6000		QP	H			Z	MED.	23.6	6.5	29.5	0.0				46.0	
588.6000		QP	V			X	MED.	23.6	6.5	29.5	0.0				46.0	
588.6000		QP	V			Y	MED.	23.6	6.5	29.5	0.0				46.0	
588.6000		QP	V			Z	MED.	23.6	6.5	29.5	0.0				46.0	
647.4000		QP	H			X	HIGH	21.7	7.9	28.7	0.0				46.0	
647.4000		QP	H			Y	HIGH	21.7	7.9	28.7	0.0				46.0	
647.4000		QP	H			Z	HIGH	21.7	7.9	28.7	0.0				46.0	
647.4000		QP	V			X	HIGH	21.7	7.9	28.7	0.0				46.0	
647.4000		QP	V			Y	HIGH	21.7	7.9	28.7	0.0				46.0	
647.4000		QP	V			Z	HIGH	21.7	7.9	28.7	0.0				46.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
616.7000		A	H			X	LOW	23.0	7.2	29.2	0.0				46.0	No frequencies found
616.7000		A	H			Y	LOW	23.0	7.2	29.2	0.0				46.0	
616.7000		A	H			Z	LOW	23.0	7.2	29.2	0.0				46.0	
616.7000		A	V			X	LOW	23.0	7.2	29.2	0.0				46.0	
616.7000		A	V			Y	LOW	23.0	7.2	29.2	0.0				46.0	
616.7000		A	V			Z	LOW	23.0	7.2	29.2	0.0				46.0	
686.7000		QP	H			X	MED.	20.4	7.3	28.4	0.0				46.0	
686.7000		QP	H			Y	MED.	20.4	7.3	28.4	0.0				46.0	
686.7000		QP	H			Z	MED.	20.4	7.3	28.4	0.0				46.0	
686.7000		QP	V			X	MED.	20.4	7.3	28.4	0.0				46.0	
686.7000		QP	V			Y	MED.	20.4	7.3	28.4	0.0				46.0	
686.7000		QP	V			Z	MED.	20.4	7.3	28.4	0.0				46.0	
755.3000		QP	H			X	HIGH	21.6	7.2	27.3	0.0				46.0	
755.3000		QP	H			Y	HIGH	21.6	7.2	27.3	0.0				46.0	
755.3000		QP	H			Z	HIGH	21.6	7.2	27.3	0.0				46.0	
755.3000		QP	V			X	HIGH	21.6	7.2	27.3	0.0				46.0	
755.3000		QP	V			Y	HIGH	21.6	7.2	27.3	0.0				46.0	
755.3000		QP	V			Z	HIGH	21.6	7.2	27.3	0.0				46.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
704.8000		A	H			X	LOW	20.2	7.1	28.2	0.0				46.0	No frequencies found
704.8000		A	H			Y	LOW	20.2	7.1	28.2	0.0				46.0	
704.8000		A	H			Z	LOW	20.2	7.1	28.2	0.0				46.0	
704.8000		A	V			X	LOW	20.2	7.1	28.2	0.0				46.0	
704.8000		A	V			Y	LOW	20.2	7.1	28.2	0.0				46.0	
704.8000		A	V			Z	LOW	20.2	7.1	28.2	0.0				46.0	
784.8000		QP	H			X	MED.	20.6	8.0	27.6	0.0				46.0	
784.8000		QP	H			Y	MED.	20.6	8.0	27.6	0.0				46.0	
784.8000		QP	H			Z	MED.	20.6	8.0	27.6	0.0				46.0	
784.8000		QP	V			X	MED.	20.6	8.0	27.6	0.0				46.0	
784.8000		QP	V			Y	MED.	20.6	8.0	27.6	0.0				46.0	
784.8000		QP	V			Z	MED.	20.6	8.0	27.6	0.0				46.0	
863.2000		QP	H			X	HIGH	23.6	9.0	27.0	0.0				46.0	
863.2000		QP	H			Y	HIGH	23.6	9.0	27.0	0.0				46.0	
863.2000		QP	H			Z	HIGH	23.6	9.0	27.0	0.0				46.0	
863.2000		QP	V			X	HIGH	23.6	9.0	27.0	0.0				46.0	
863.2000		QP	V			Y	HIGH	23.6	9.0	27.0	0.0				46.0	
863.2000		QP	V			Z	HIGH	23.6	9.0	27.0	0.0				46.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
792.9000		A	H			X	LOW	20.3	8.3	27.6	0.0				46.0	No frequencies found
792.9000		A	H			Y	LOW	20.3	8.3	27.6	0.0				46.0	
792.9000		A	H			Z	LOW	20.3	8.3	27.6	0.0				46.0	
792.9000		A	V			X	LOW	20.3	8.3	27.6	0.0				46.0	
792.9000		A	V			Y	LOW	20.3	8.3	27.6	0.0				46.0	
792.9000		A	V			Z	LOW	20.3	8.3	27.6	0.0				46.0	
882.9000		QP	H			X	MED.	24.2	8.4	27.1	0.0				46.0	
882.9000		QP	H			Y	MED.	24.2	8.4	27.1	0.0				46.0	
882.9000		QP	H			Z	MED.	24.2	8.4	27.1	0.0				46.0	
882.9000		QP	V			X	MED.	24.2	8.4	27.1	0.0				46.0	
882.9000		QP	V			Y	MED.	24.2	8.4	27.1	0.0				46.0	
882.9000		QP	V			Z	MED.	24.2	8.4	27.1	0.0				46.0	
971.1000		QP	H			X	HIGH	25.2	8.0	26.9	0.0				54.0	
971.1000		QP	H			Y	HIGH	25.2	8.0	26.9	0.0				54.0	
971.1000		QP	H			Z	HIGH	25.2	8.0	26.9	0.0				54.0	
971.1000		QP	V			X	HIGH	25.2	8.0	26.9	0.0				54.0	
971.1000		QP	V			Y	HIGH	25.2	8.0	26.9	0.0				54.0	
971.1000		QP	V			Z	HIGH	25.2	8.0	26.9	0.0				54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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RADIATED EMISSIONS (FCC SECTION 15.239)

COMPANY	Everwin International	DATE	1/8/2007
EUT	FM Modulator	DUTY CYCLE	N/A %
MODEL	Carplay Wireless Plus	PEAK TO AVG	N/A dB
S/N	N/A	TEST DIST.	3 Meters
TEST ENGINEER	R. Ramirez	LAB	F

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
881.0000		A	H			X	LOW	24.2	8.5	27.1	0.0				46.0	No frequencies found
881.0000		A	H			Y	LOW	24.2	8.5	27.1	0.0				46.0	
881.0000		A	H			Z	LOW	24.2	8.5	27.1	0.0				46.0	
881.0000		A	V			X	LOW	24.2	8.5	27.1	0.0				46.0	
881.0000		A	V			Y	LOW	24.2	8.5	27.1	0.0				46.0	
881.0000		A	V			Z	LOW	24.2	8.5	27.1	0.0				46.0	
981.0000		QP	H			X	MED.	25.2	8.1	27.3	0.0				46.0	
981.0000		QP	H			Y	MED.	25.2	8.1	27.3	0.0				46.0	
981.0000		QP	H			Z	MED.	25.2	8.1	27.3	0.0				46.0	
981.0000		QP	V			X	MED.	25.2	8.1	27.3	0.0				46.0	
981.0000		QP	V			Y	MED.	25.2	8.1	27.3	0.0				46.0	
981.0000		QP	V			Z	MED.	25.2	8.1	27.3	0.0				46.0	
1079.0000		QP	H			X	HIGH	24.7	6.6	31.7	0.0				54.0	
1079.0000		QP	H			Y	HIGH	24.7	6.6	31.7	0.0				54.0	
1079.0000		QP	H			Z	HIGH	24.7	6.6	31.7	0.0				54.0	
1079.0000		QP	V			X	HIGH	24.7	6.6	31.7	0.0				54.0	
1079.0000		QP	V			Y	HIGH	24.7	6.6	31.7	0.0				54.0	
1079.0000		QP	V			Z	HIGH	24.7	6.6	31.7	0.0				54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

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COMPATIBLE ELECTRONICS

Test Location	: Compatible Electronics	Page	: 1/1
Customer	: Alex Samson	Date	: 01/08/2007
Manufacturer	: Everwin International	Time	: 01:12:11 PM
Eut name	: FM Modulator	Lab	: F
Model	: Cardisplay Wireless Plus	Test Distance	: 3.00 Meters
Serial #	: N/A		
Specification	: FCC Pt. 15- Class B		
Distance correction factor (20 * log(test/spec))			: 0.00
Test Mode	: Band Edge Measurements 88-108		
	Test Engineer: R. Ramirez		

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
1V	44.216	45.40	2.34	12.57	30.31	30.00	40.00	-10.00
2V	66.330	48.90	2.67	9.34	29.84	31.06	40.00	-8.94
3V	110.590	42.20	3.15	13.33	30.29	28.39	43.50	-15.11
4V	132.768	40.80	3.23	14.19	30.33	27.89	43.50	-15.61
5V	154.843	40.70	3.32	14.18	30.26	27.94	43.50	-15.56
6V	217.721	35.30	3.93	15.31	28.92	25.61	46.00	-20.39
7V	246.086	31.90	4.58	16.44	28.61	24.30	46.00	-21.70
8V	268.486	32.70	4.40	19.74	28.38	28.46	46.00	-17.54
9H	44.216	40.30	2.34	12.57	30.31	24.90	40.00	-15.10
10H	66.330	43.80	2.67	9.34	29.84	25.96	40.00	-14.04
11H	110.590	36.90	3.15	13.33	30.29	23.09	43.50	-20.41
12H	132.762	40.20	3.23	14.19	30.33	27.29	43.50	-16.21
13H	154.852	37.70	3.32	14.18	30.26	24.94	43.50	-18.56
14H	217.730	35.90	3.93	15.31	28.92	26.21	46.00	-19.79
15H	246.095	35.30	4.58	16.44	28.61	27.70	46.00	-18.30
16H	268.495	33.50	4.40	19.74	28.38	29.26	46.00	-16.74
17V	370.009	31.80	5.01	13.39	29.02	21.18	46.00	-24.82
18V	468.809	33.60	5.96	19.84	28.97	30.43	46.00	-15.57
19V	674.015	32.20	7.56	20.81	28.50	32.07	46.00	-13.93
20V	774.145	32.90	7.74	20.96	27.80	33.80	46.00	-12.20
21H	370.020	35.30	5.01	13.39	29.02	24.68	46.00	-21.32
22H	468.820	34.50	5.96	19.84	28.97	31.33	46.00	-14.67
23H	674.020	32.50	7.56	20.81	28.50	32.37	46.00	-13.63
24H	774.165	31.80	7.74	20.95	27.80	32.70	46.00	-13.30