

### FCC CFR47 PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 8

**CERTIFICATION TEST REPORT** 

FOR

### GLASS

### MODEL NUMBER: XEB

FCC ID: A4R-X1

### **REPORT NUMBER: 13U14955-2, REVISION A**

**ISSUE DATE: APRIL 12, 2013** 

Prepared for GOOGLE INC. 1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW CA, 94043, U.S.A

Prepared by UL CCS 47173 BENICIA STREET FREMONT, CA 94538, U.S.A. TEL: (510) 771-1000 FAX: (510) 661-0888

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NVLAP LAB CODE 200065-0

### **Revision History**

Rev.	Issue Date	Revisions	Revised By
	04/05/13	Initial Issue	T. LEE
А	04/12/13	Correction to model on cover page	G. Persons

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## **1. ATTESTATION OF TEST RESULTS**

- - - - - ....

COMPANY NAME:	GOOGLE INC. 1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW, CA, 94043, U.S.A	
EUT DESCRIPTION:	GLASS	
MODEL:	XEB	
SERIAL NUMBER:	ECABB131105243	
DATE TESTED:	MARCH 30 – APRIL 5, 2014	
	APPLICABLE STANDARDS	
ST	ANDARD	TEST RESULTS
CFR 47 Pa	art 15 Subpart C	Pass

UL CCS tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL CCS By:

Tested By:

TIM LEE WISE PROJECT MANAGER UL CCS

MONA HUA EMC ENGINEER UL CCS

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# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2003, RSS-GEN Issue 3, and RSS-210 Issue 8.

# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

# 4. CALIBRATION AND UNCERTAINTY

#### 4.1. **MEASURING INSTRUMENT CALIBRATION**

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

#### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

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# 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a glass providing a heads-up video display. The device incorporates an 802.11 b/g 2.4 GHz WLAN and BT, BT-LE radio. This report covers the 802.11b/g/ transceiver.

The radio module is manufactured by Broadcom.

### 5.2. MAXIMUM OUTPUT POWER

The measured average power values were within  $\pm$  0.5 dB of the original values. Refer to original report number "12U14656-2A" for exact output power values and for all antenna port results.

### 5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The change filed under this application has the following changes.

The antenna length was increased by 2.5mm.

The Wifi antenna battery pod grounding was changed

### 5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a coaxial monopole antenna with a maximum gain is 3.32 dBi.

### 5.5. SOFTWARE AND FIRMWARE

The firmware/software installed in the EUT during testing was 201303251100.

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## 5.6. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT plays the video srcipt with audio set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z, it was determined that Z orientation (Side with glass at the top) was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps 802.11g mode: 6 Mbps

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## 5.7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List						
Description Manufacturer Model Serial Number FCC ID						
AC Charger	GOOGLE	10AG212020	N/A	N/A		

### I/O CABLES

	I/O Cable List						
Cable	Port	# of identical	Connector	Cable Type	Cable	Remarks	
No		ports	Туре		Length (m)		
			LICE	01 1 1 1	1.0	NT	

### TEST SETUP

The EUT was at the worst position and connected to the charger played the video script and transmit the worst case WiFi when tested.

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### SETUP DIAGRAM FOR TESTS



# 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
Antenna, Horn, 18 GHz	EMCO	3115	C00872	09/20/12	09/20/13
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	08/22/12	08/22/13
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	C01011	04/23/12	04/23/13
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	11/11/12	11/11/13
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/12	08/08/13
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/13	01/14/14

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# 7. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

### LIMITS

None; for reporting purposes only.

#### PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

### 7.1.1. ON TIME AND DUTY CYCLE RESULTS

Mode	<b>ON</b> Time	Period	<b>Duty Cycle</b>	Duty	Duty Cycle	1/T
	В		x	Cycle	<b>Correction Factor</b>	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
802.11b	8.60	8.63	0.996	99.6%	0.00	0.010
802.11g	1.43	1.45	0.983	98.3%	0.00	0.010

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### 7.1.2. DUTY CYCLE PLOTS





## 8. RADIATED TEST RESULTS

### 8.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

#### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

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## 8.2. TRANSMITTER ABOVE 1 GHz

### 8.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

### RESTRICTED BANDEDGE (LOW CHANNEL)





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			Mkr1	2 378 27 GHz	
ef 100_dBµ∨	#Atten 0 dB			52.87 dBµ∨	Center Freq
- <sup>J</sup> eak					2.00000000 0111
) B/					Start Freq
ffst					
I.1 B					Stop Fred
				1	1.00000000 0111
₽.0 Bµ∨ gAv	r a falo delafitativ agrico a Calanyar e asiro		grafebilegelergelergelergelergelergelergelerge	an Sama and a strate	CF Ste 8.00000000 MH; <u>Auto M</u>
1 \(\sigma_2\)					Freg Offset
3 FC					0.00000000 Hz
10:					
Tun					Signal Track
wp					
4 + 2 210 00 CH-			Et au	2 200 00 CH-	4
		(DW/ 2 MU-	Stop	2.350 00 GHZ	



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#### **RESTRICTED BANDEDGE (HIGH CHANNEL)**

Ngilein 05.56.1	5 Mai 30, 2013			1	
ef 100 dBµ∨ <sup>P</sup> eak	#Atten 0 dB		Mkr1 2.44	84 930 0 GHz 60.74 dBµ∨	Center Freq 2.49175000 GHz
) g ) 3/					Start Freq 2.48350000 GHz
3					Stop Freq 2.5000000 GHz
I.0 3µ∨ ĮАν	hyphic second and a second second	hun the address	<sup>pul</sup> hannagertaternage	and the state of the	CF Stej 1.65000000 MHz <u>Auto Ma</u>
1 √2 3 FC					Freq Offset 0.00000000 Hz
f): Гип wp					Signal Track
art 2.483 500 0 G	Hz #VI	BW 3 MH7	Stop 2.50	00 000 0 GHz	



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		Mbr1 2	485 040 0	CH <sub>2</sub>	
#Atten 0 dB		WINIT 2.	56.05 (	lBµ∨	Center Fred
					2.49175000 GH.
					Start Fred
					2.48350000 GH:
					Stop Free
					2.5000000 GH
age providence and the second	handrather and and	Mudahamana	almound	mound	CF Ste
					1.65000000 MH: Auto M
					Freq Offset
					0.00000000 112
					Signal Tracl
					On <u>(</u>
	#Atten 0 dB	#Atten 0 dB	#Atten 0 dB		#Atten 0 dB 56.05 dBµV



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#### HARMONICS AND SPURIOUS EMISSIONS

f Me Dist Dist Read An AF An CL Cal GHz (m) d ow Ch, 2412 MHz .824 3.0 3 .824 3.0 4 .824 3.0 5	easurement Frei istance to Anter nalyzer Reading intenna Factor able Loss Read AF <u>dBuV dB/m</u> 38.2 33.1 30.7 33.1	quency Ar ina D Av Pe HI CL A dB	mp Preamp Corr Distance vg Average eak Calculat PF High Pa	Gain e Correc Field S ed Peak ss Filter	et to 3 me trength @ : Field Stre	ters 3 m	Average Peak Fie	Field Strength	gth Limit Limit			
f         Dist         F           GHz         (m)         d           ow Ch, 2412 MHz         3.0         3.2           .824         3.0         3.2           .824         3.0         3.2           .824         3.0         3.2           .824         3.0         3.2	Read AF dBuV dB/m 38.2 33.1 30.7 33.1	CL A dB	Amp D Corr		r	ingth	Margin v Margin v	vs. Average vs. Peak Lir	Limit nit			
GHz         (m)         d           .ow Ch, 2412 MHz         .824         3.0         3           .824         3.0         3         3           .824         3.0         3         3           .824         3.0         3         3           .824         3.0         3         3           .824         3.0         3         3	38.2 33.1 30.7 33.1	dB		Fltr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
Sec         3.0 <th>38.2 33.1 30.7 33.1</th> <th></th> <th>dB dB</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>V/H</th> <th>P/A/QP</th> <th>cm</th> <th>Degree</th> <th></th>	38.2 33.1 30.7 33.1		dB dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
.824 3.0 3 .824 3.0 4 .824 3.0 4	30.7 33.1	6.3 -	34.8 0.0	0.0	42.8	74.0	-31.2	v	Р	191.8	212.1	
.824 3.0 4 .824 3.0 3		6.3 -	34.8 0.0	0.0	35.2	54.0	-18.8	v	Ā	191.8	212.1	
.824 3.0 3	41.4 33.1	6.3 -3	34.8 0.0	0.0	46.0	74.0	-28.0	H	P	100.4	268.5	
	35.7 33.1	6.3 -3	34.8 0.0	0.0	40.2	54.0	-13.8	H	A	100.4	268.5	
lid Ch. 2437 MHz		<u> </u>		+								
874 3.0	38.4 33.1	6.3 -3	34.8 0.0	0.0	43.1	74.0	-30.9	V	P	105.7	83.0	
874 3.0	30.4 33.1	6.3 -3	34.8 0.0	0.0	35.0	54.0	-19.0	V	A	105.7	83.0	
311 3.0	37.0 35.8	8.5 -	34.9 0.0	0.0	46.4	74.0	-27.6	V	P	100.0	0.0	
874 3.0 4	40.6 33.1	6.3 -	34.9 0.0	0.0	30.2	54.0	-17.8	V H	P	100.0	334.5	
874 3.0	34.8 33.1	6.3 -	34.8 0.0	0.0	39.5	54.0	-14.5	H	Ā	101.5	334.5	
311 3.0	41.9 35.8	8.5 -	34.9 0.0	0.0	51.3	74.0	-22.7	H	P	100.9	145.1	
311 3.0 3	35.3 35.8	8.5 -3	34.9 0.0	0.0	44.7	54.0	-9.3	H	A	100.9	145.1	
.924 3.0	37.7 33.2	6.3 -3	34.8 0.0	0.0	42.4	74.0	-31.6	V	Р	197.9	360.0	
.924 3.0	27.9 33.2	6.3 -	34.8 0.0	0.0	32.6	54.0	-21.4	V	Ā	197.9	360.0	
.386 3.0	35.0 35.9	8.5 -3	34.9 0.0	0.0	44.6	74.0	-29.4	V	Р	100.0	360.0	
386 3.0	25.8 35.9	8.5 -	34.9 0.0	0.0	35.4	54.0	-18.6	V	A	100.0	360.0	
924 3.0 4 924 3.0 5	40.4 33.2	6.3 -	34.8 0.0 34.8 0.0	0.0	45.1	74.0	-28.9	H H	P	102.9	334.9	
386 3.0	38.0 35.9	8.5 -	34.9 0.0	0.0	47.6	74.0	-15.5	н	<u>р</u>	102.9	268.4	
386 3.0	28.8 35.9	8.5 -	34.9 0.0	0.0	38.3	54.0	-15.7	H	Ā	100.0	268.4	
ev. 4.1.2.7 ote: No other emis	ssions were de	tected ab	bove the syste	em noi:	se floor.		<u>.</u>					

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### 8.3. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

### **RESTRICTED BANDEDGE (LOW CHANNEL)**





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#### **RESTRICTED BANDEDGE (HIGH CHANNEL)**

ef 100 dBµ∀ Peak	#Atten 0 dB		Center Freq 2.49175000 GHz		
9g 3/					Start Freq 2.48350000 GHz
3 1					Stop Freq 2.5000000 GHz
.0 <sup>ματοδ</sup> ηγία 3μV  Av	and a start a start a start a start a start a start	have have been a start of the second start of	rounderman	hannyh akalaminya dinainya p	CF Stej 1.65000000 MHz <u>Auto Ma</u>
I √2 3 FC					Freq Offset 0.00000000 Hz
): Tun vp					Signal Track
art 2.483 500 0 G	Hz #M		Stop 2.50	00 000 0 GHz	



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R Agilent 09:47:	5 Mar 30, 2013			R I	[Freq/Channel
ef 100 dBµ∨ Peak	#Atten 0 dB		Mkr1 2.48	4 600 0 GHz 55.36 dBµ∨	Center Freq 2.49175000 GHz
og D B/					Start Freq 2.48350000 GHz
2 B I					Stop Freq 2.5000000 GHz
<b>4.0</b> Βμ∨ μ	way mound have all and	-howagewinderAlly	mar and a real of the real of	and a standard for the stands	CF Step 1.65000000 MHz <u>Auto M</u> a
1 V2 3 FC					Freq Offset 0.00000000 Hz
(f): Tun wp					Signal Track On <u>Of</u>
tart 2.483 500 0 G Res BW 1 MHz	iHz #VBV	N 3 MHz	Stop 2.50 Sweep 1	0 000 0 GHz ms (601 pts)	



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#### HARMONICS AND SPURIOUS EMISSIONS

Test Engr Date: Project # Company Test Targ Mode Op	: /: et: er:	Mona Hu 03/30/13 13U1495 Google EUT with Tx, WLA	a 5 n AC Ada N, g Mo	apter de											
	f Dist Read AF CL	Measuren Distance Analyzer Antenna Cable Los	nent Freq to Anter Reading Factor is	luency ina	Amp D Corr Avg Peak HPF	Preamp ( Distance Average Calculate High Pas	Gain Correc Field S d Peak s Filter	tt to 3 me trength @ Field Stre	eters ) 3 m ength	Average Peak Fie Margin v Margin v	Field Stren, eld Strength vs. Average vs. Peak Lir	gth Limit Limit Limit mit			
f	Dist	Read	AF	CL	Amp	D Corr	Fltr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	: (m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	qR	V/H	P/A/QP	cm	Degree	
Low Cn, 1 4.824	3.0	38.5	33.1	6.3	-34.8	0.0	0.0	43.0	74.0	-31.0	v	P	101.0	218.4	
4.824	3.0	27.8	33.1	6.3	-34.8	0.0	0.0	32.4	54.0	-21.6	v	A	101.0	218.4	
4.824	3.0	39.0	33.1	6.3	-34.8	0.0	0.0	43.5	74.0	-30.5	H	P	102.2	146.6	
4.824	3.0	28.9	33.1	6.3	-34.8	0.0	0.0	33.4	54.0	-20.6	H	A	102.2	146.6	
Mid Ch. 3	437111	7													
4.874	3.0	37.7	33.1	6.3	-34.8	0.0	0.0	42.4	74.0	-31.6	V	P	137.3	176.9	
4.874	3.0	27.6	33.1	6.3	-34.8	0.0	0.0	32.2	54.0	-21.8	V	A	137.3	176.9	
7.311	3.0	37.3	35.8	8.5	-34.9	0.0	0.0	46.7	74.0	-27.3	V	P	100.0	0.0	
7.311	3.0	26.6	35.8	8.5	-34.9	0.0	0.0	36.0	54.0	-18.0	V	A	100.0	0.0	
4.874	3.0	40.0	33.1	6.3	-34.8	0.0	0.0	44.0	74.0	-29.4	H H	P	190.4	333.6	
7.311	3.0	39.8	35.8	8.5	-34.9	0.0	0.0	49.2	74.0	-24.8	H	P	127.5	360.0	
7.311	3.0	28.5	35.8	8.5	-34.9	0.0	0.0	37.9	54.0	-16.1	H	A	127.5	360.0	
		1								ļ					
High Ch,	2462 M	Hz										_			
4.924	3.0	38.5	33.2	6.3	-34.8	0.0	0.0	43.2	74.0	-30.8	V	P	105.9	154.0	
7.386	3.0	39.4	35.9	8.5	-34.9	0.0	0.0	48.9	54.0 74.0	-20.0	v	л Р	103.5	287.9	
7.386	3.0	28.8	35.9	8.5	-34.9	0.0	0.0	38.3	54.0	-15.7	v	Ā	123.2	287.9	
4.924	3.0	40.6	33.2	6.3	-34.8	0.0	0.0	45.3	74.0	-28.7	H	P	108.0	333.4	
4.924	3.0	29.8	33.2	6.3	-34.8	0.0	0.0	34.5	54.0	-19.5	H	A	108.0	333.4	
7.386	3.0	40.5	35.9	8.5	-34.9	0.0	0.0	50.1	74.0	-23.9	H	P	100.0	127.5	
1.380	3.0	29.4	35.9	ð.5	-34.9	0.0	0.0	39.0	54.0	-15.0	n	4	100.0	127.5	
Rev. 4.1.2 Note: No	.7 other e	missions	were de	tected	l above t	he syster	n nois	se floor.	-	•			•	· ·	

### 8.4. WORST-CASE BELOW 1 GHz

#### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)





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# 9. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted L	.imit (dBuV)
	Quasi-peak	Average
0.15-0.5	66 to 56 "	56 to 46 *
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

<u>RESULTS</u>

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#### **<u>6 WORST EMISSIONS</u>**

liont NamerC	14955									
Jient Name:G	oogie	- 1 EVTA								
Test Volt (Free	WLAN, GIAS	51-EV14								
Test Volt/Freq	115 VAC/ 60	IHZ								
lest By:Iviona F	ниа									
line-11,15 - 30	MH7									
Tort	Motor		T24 II			CISDP 11/22		CISDP 11/22		
Frequency	Reading	Detector	L1.TXT	LC Cables	dB(u)(olts)	Class B Quasi-	Margin	Class B	Margin	
0.6315	51.6	Detector	0.1	103 (00)	51.7	56	-/1.3	Average	wargin	
0.6315	37.15	Δv	0.1	0	37.25	-	-4.5	46	-8.75	
3 336	48 71	PK	0.1	0.1	48.91	56	-7.09	-	-0.75	
3,336	34.35	Δν	0.1	0.1	34.55	-	-7.05	46	-11.45	
15.45	44.49	PK	0.2	0.2	44.89	60	-15.11	-	-	
15.45	29.26	Δv	0.2	0.2	29.66	-	-	50	-20.34	
10.10	25125		0.2	012	20100				20104	
Line-L2 .15 - 30	MHz									
Test Frequency	Meter Reading		T24 IL L1.TXT	LC Cables		CISPR 11/22 Class B Quasi-		CISPR 11/22 Class B		
(MHz)	(dBuV)	Detector	(dB)	1&3 (dB)	dB(uVolts)	peak	Margin	Average	Margin	
0.627	48.76	PK	0.1	0	48.86	56	-7.14	-	-	
0.627	35.28	Av	0.1	0	35.38	-	-	46	-10.62	
3.3225	46.15	PK	0.1	0.1	46.35	56	-9.65	-	-	
3.3225	29.13	Av	0.1	0.1	29.33	-	-	46	-16.67	
	42.23	PK	0.2	0.2	42.63	60	-17.37	-	-	
13.785	42.20									

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#### LINE 1 RESULTS



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#### LINE 2 RESULTS



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