

**IEEE C95.1 2005
KDB 447498 D01 V06
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091**

RF EXPOSURE REPORT

For

Xerox TMS

Model: IVU-4000

Trade Name: xerox

Issued to

Advantech Co.Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc.

**No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)**

<http://www.ccsrf.com>

service@ccsrf.com

Issued Date: July 4, 2016



Testing Laboratory
1309

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 4, 2016	Initial Issue	ALL	Doris Chu

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION..... 4

2. LIMIT 5

3. EUT SPECIFICATION..... 5

4. TEST RESULTS..... 9

5. MAXIMUM PERMISSIBLE EXPOSURE 10

1. TEST RESULT CERTIFICATION

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted

*Approved by:**Test by:*



Miller Lee
 Manager
 Compliance Certification Services Inc.

Doris Chu
 Report coordinator
 Compliance Certification Services Inc.

2. LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

EUT	Xerox TMS
Model	IVU-4000
Model Discrepancy	N/A
Trade Name	xerox
Frequency band (Operating)	<input checked="" type="checkbox"/> GPRS / EDGE 850MHz: 824.2MHz ~ 848.8MHz <input checked="" type="checkbox"/> GPRS / EDGE 1900MHz: 1850.2MHz ~ 1909.8MHz <input checked="" type="checkbox"/> WCDMA / HSDPA / HSUPA Band II: 1852.4MHz ~ 1907.6MHz <input checked="" type="checkbox"/> WCDMA / HSDPA / HSUPA Band V: 826.4MHz ~ 846.6MHz <input checked="" type="checkbox"/> WCDMA / HSDPA / HSUPA Band IV: 1712.4MHz ~ 1752.6MHz <input checked="" type="checkbox"/> Band Class 0 US Cellular: 815 MHz ~ 849 MHz <input checked="" type="checkbox"/> Band Class 1 North American PCS: 1850 MHz ~ 1910 MHz <input checked="" type="checkbox"/> Band Class 10 Secondary 800 MHz: 806 MHz ~ 901 MHz <input checked="" type="checkbox"/> LTE Band 2: 1850MHz ~ 1910MHz <input checked="" type="checkbox"/> LTE Band 4: 1710MHz ~ 1755MHz <input checked="" type="checkbox"/> LTE Band 5: 824MHz ~ 849MHz <input checked="" type="checkbox"/> LTE Band 13: 777 MHz ~ 787 MHz <input checked="" type="checkbox"/> LTE Band 17: 704 MHz ~ 716 MHz <input checked="" type="checkbox"/> LTE Band 25: 1850 MHz ~ 1915MHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)

Antenna Specification	GPRS / EDGE 850MHz:	
	1. GSA.8822.B.301111	2.53 dBi (Numeric gain: 1.79)
	DIPOLE Antenna	
	2. MA230.LBC.002	2.16 dBi (Numeric gain: 1.64)
	MONOPOLE Antenna	
	GPRS / EDGE 1900MHz:	
	1. GSA.8822.B.301111	-0.86 dBi (Numeric gain: 0.82)
	DIPOLE Antenna	
	2. MA230.LBC.002	0.42 dBi (Numeric gain: 1.10)
	MONOPOLE Antenna	
	WCDMA / HSDPA / HSUPA Band II:	
	1. GSA.8822.B.301111	-0.86 dBi (Numeric gain: 0.82)
	DIPOLE Antenna	
	2. MA230.LBC.002	0.42 dBi (Numeric gain: 1.10)
	MONOPOLE Antenna	
	WCDMA / HSDPA / HSUPA Band IV:	
	1. GSA.8822.B.301111	-1.34 dBi (Numeric gain: 0.73)
	DIPOLE Antenna	
	2. MA230.LBC.002	0.42 dBi (Numeric gain: 1.10)
	MONOPOLE Antenna	
	WCDMA / HSDPA / HSUPA Band V:	
	1. GSA.8822.B.301111	2.53 dBi (Numeric gain: 1.79)
	DIPOLE Antenna	
	2. MA230.LBC.002	2.16 dBi (Numeric gain: 1.64)
MONOPOLE Antenna		
Band Class 0 US Cellular:		
1. GSA.8822.B.301111	2.70 dBi (Numeric gain: 1.86)	
DIPOLE Antenna		
2. MA230.LBC.002	2.16 dBi (Numeric gain: 1.64)	
MONOPOLE Antenna		
Band Class 1 North American PCS:		
1. GSA.8822.B.301111	-0.86 dBi (Numeric gain: 0.82)	
DIPOLE Antenna		
2. MA230.LBC.002	0.42 dBi (Numeric gain: 1.10)	
MONOPOLE Antenna		
Band Class 10 Secondary 800 MHz:		
1. GSA.8822.B.301111	2.70 dBi (Numeric gain: 1.86)	
DIPOLE Antenna		
2. MA230.LBC.002	2.16 dBi (Numeric gain: 1.64)	
MONOPOLE Antenna		

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Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation* <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A																																																					

4. TEST RESULTS

No non-compliance noted.

Calculation

$$\text{Given } E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

GPRS850 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
251	848.8	316.228	1.79	20	0.1126	0.566

EGPRS850 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
190	836.6	79.433	1.79	20	0.0283	0.558

GPRS1900 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
661	1880	100.000	1.10	20	0.0219	1.000

EGPRS1900 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
661	1880	50.119	1.10	20	0.0110	1.000

WCDMA / HSDPA / HSUPA Band II mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
9262	1852.4	251.189	1.10	20	0.0550	1.000

WCDMA / HSDPA / HSUPA Band IV mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
1312	1712.4	251.189	1.10	20	0.0550	1.000

WCDMA / HSDPA / HSUPA Band V mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
4233	846.6	251.189	1.79	20	0.0895	0.564

Band Class 0 US Cellular:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
777	848.31	251.189	1.86	20	0.0930	0.566

Band Class 1 North American PCS:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
600	1880	251.189	1.10	20	0.0550	1.000

Band Class 10 Secondary 800 MHz:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
476	817.9	251.189	1.86	20	0.0930	0.545

LTE Band 2:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
18900	1880	251.189	1.10	20	0.0550	1.000

LTE Band 4:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
20050	1720	251.189	1.10	20	0.0550	1.000

LTE Band 5:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
20600	844	251.189	1.79	20	0.0895	0.563

LTE Band 13:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
23230	782	251.189	1.64	20	0.0820	0.521

LTE Band 17:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
23780	709	251.189	1.64	20	0.0820	0.473

LTE Band 25:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
26365	1882.5	251.189	1.10	20	0.0550	1.000