FCC RF EXPOSURE REPORT

FCC ID: 2ALJ8-CTL001A

Project No.	**: 1702C003**
Equipment	**: WCDMA/GPRS Wireless Data Terminal**
Model	**: CTL-001A, CTL-001**
Applicant	**: Cathay Tri-Tech.,Inc**
Address	**: 3-24-5,Shinyokohama Kohoku-ku,Yokohama 222-0033,Japan**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	External Antenna	N/A	-0.97dBi	GSM 850 & WCDMA Band 5
2	N/A	N/A	Printed Antenna	N/A	2.01dBi	DCS 1900 & WCDMA Band 2

TEST RESULTS

EUT：	WCDMA/GPRS Wireless Data Terminal	Model Name :	CTL-001A
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

GSM850

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-0.97	0.7998	30.93	1238.7966	0.19722	2.74	Complies

DCS1900

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-0.97	0.7998	32.04	1599.5580	0.25465	5	Complies

Note: the calculated distance is 20 cm.