RF EXPOSURE REPORT

REPORT NO.: SA991012C11

MODEL NO.: TG590 / DSLMBB590 AA

FCC ID: RSE-TG590

ACCORDING: FCC Guidelines for Human Exposure
IEEE C95.1

APPLICANT: Thomson Telecom Belgium

ADDRESS: Prins Boudewijnlaan 47 Edegem Belgium B-2650

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

1. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm^2)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

2. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

4. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MODULATION MODE	FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
IEEE802.11b	2412-2462	26.7	3.89022	20	0.228	1
IEEE802.11b	2412-2462	27.8	3.89022	20	0.294	1
IEEE802.11n (OBW=20MHz), data rate: 6.5Mbps	2412-2462	28.8	3.89022	20	0.370	1
IEEE802.11n (OBW=20MHz), data rate: 13Mbps	2412-2462	28.9	3.89022	20	0.378	1