

RF EXPOSURE REPORT

REPORT NO.: SA121108E08

MODEL NO.: MT7630E

FCC ID: RAS-MT7630E

RECEIVED: Nov. 08, 2012

TESTED: Dec. 18, 2012

ISSUED: Dec. 27, 2012

APPLICANT: MediaTek Inc.

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R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO. REASON FOR CHANGE		DATE ISSUED
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1. CERTIFICATION

PRODUCT: 802.11b/g/n 1T1R Combo Card

BRAND NAME: MediaTek

MODEL NO.: MT7630E

TEST SAMPLE: MASS-PRODUCTION

APPLICANT: MediaTek Inc.

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: MT7630E) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY

APPROVED BY

4.)

Dec. 27, 2012

(May Chen, Deputy Manager)

, DATE: Dec. 27, 2012



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD POWER DENSITY (mW/cm²)		AVERAGE TIME (minutes)			
LIMI	LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500	300-1500		F/1500	30			
1500-100,000			1.0	30			

F = Frequency in MHz

3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$

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

4. 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**.



5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For WLAN:

11bgn

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
2412-2462	288.403	3.5	20	0.12845	1.00

BT-LE(GFSK)

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
2402-2480	6.561	3.5	20	0.00292	1.00

For Bluetooth:

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
2402-2480	10.280	3.5	20	0.00458	1.00

CONCLUSION:

Both of the WLAN and Bluetooth can transmit simultaneously, the formula of calculated the MPE is:

 $CPD_1/LPD_1 + CPD_2/LPD_2 + \dots etc. < 1$

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is 0.12845 / 1 + 0.00458 / 1 = 0.13303, which is less than "1". This confirmed that the device comply with FCC 1.1310 MPE limit.

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