



RF EXPOSURE REPORT

REPORT NO.: SA120718C09A-1

MODEL NO.: MC7750

FCC ID: QYLMC7750

ISSUED: Nov. 02, 2012

APPLICANT: Getac Technology Corporation

ADDRESS: 5F., Building A, No. 209, Sec. 1, Nangang Rd.,
Nangang Dist, Taipei City 11568, Taiwan, R.O.C.

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

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,
New Taipei City, 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.

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------|-------------------|---------------|
| SA120718C09-4 | Original release | Nov. 02, 2012 |



1. CERTIFICATION

PRODUCT: WWAN Module

MODEL NO.: MC7750

BRAND: Sierra Wireless

APPLICANT: Getac Technology Corporation

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

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

IEEE C95.1

The above equipment (Model: MC7750) 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 : Ivonne Wu , **DATE** : Nov. 02, 2012
Ivonne Wu / Senior Specialist

APPROVED BY : Roy Wu , **DATE** : Nov. 02, 2012
Roy Wu / Manager

2. RF EXPOSURE ASSESSMENT

2.1 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

2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

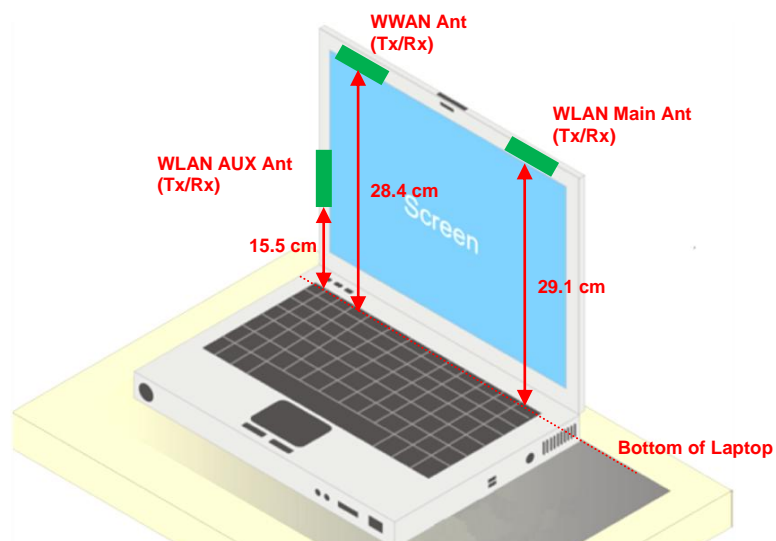
G = gain of antenna in linear scale

π = 3.1416

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

2.3 CLASSIFICATION

The WWAN 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**.



2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

| Function | Maximum Antenna Gain (dBi) | Maximum Antenna Gain (numeric) | Maximum Output Power (dBm) | Maximum Output Power (mW) | Calculated RF Exposure at r = 20 cm (mW/cm ²) | Limit (mW/cm ²) |
|--------------|----------------------------|--------------------------------|----------------------------|---------------------------|---|-----------------------------|
| CDMA2000 BC0 | 1.5 | 1.41 | 25.31 | 339.63 | 0.10 | 0.55 |
| CDMA2000 BC1 | 2.6 | 1.82 | 25.28 | 337.29 | 0.12 | 1.00 |
| LTE Band 13 | 2.41 | 1.74 | 23.56 | 226.99 | 0.08 | 0.52 |

Note: The maximum output power is refer to the RF report of the WWAN module (FCC ID: N7NMC7750=)

2.5 EVALUATION OF SIMULTANEOUS TRANSMISSION

There is one WWAN module and one WLAN module installed in this laptop PC, and the exposure condition is mobile and portable respectively. According to KDB 616217 D03 4) a), the formula is as following and the calculation is listed in below table.

$$(\sum \text{ of the highest measured 1g SAR} / 1.6 \text{ W/kg}) + (\sum \text{ of the highest MPE} / \text{MPE limit}) < 1$$

| Co-transmission Configuration | Highest WLAN SAR | SAR Limitation | Highest WWAN MPE | MPE Limitation | Sum of Ratio |
|-------------------------------|------------------|----------------|------------------|----------------|--------------|
| WLAN + CDMA BC0 | 0.011 | 1.6 | 0.10 | 0.55 | 0.19 |
| WLAN + CDMA BC1 | 0.011 | 1.6 | 0.12 | 1.00 | 0.13 |
| WLAN + LTE Band 13 | 0.011 | 1.6 | 0.08 | 0.52 | 0.16 |

Note: The highest SAR value is refer to the BVADT WLAN SAR report (FCC ID. QYL6235, Report No.: SA120718C09A, Issue Date: Nov. 02, 2012)

Since the summation for each configuration is less than 1, the simultaneous transmission SAR evaluation is not required.