



PARTIAL FCC TEST REPORT

(15.209)

REPORT NO. : RF140313C20-1

MODEL NO. : T800

FCC ID : QYLT800

RECEIVED : Mar. 13, 2014

TESTED : Jun. 11, 2014

ISSUED : Jun. 13, 2014

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 |
|---------------|-------------------|---------------|
| RF140313C20-1 | Original release | Jun. 13, 2014 |



1. CERTIFICATION

PRODUCT: Tablet
MODEL NO.: T800
BRAND: TORQUE G01
APPLICANT: Getac Technology Corporation.
TESTED: Jun. 11, 2014
TEST SAMPLE: Identical Prototype
STANDARDS: **FCC Part 15, Subpart C (Section 15.209)**
ANSI C63.4-2003

The above equipment (model: T800) have 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 : Evonne Liu , **DATE** : Jun. 13, 2014
Evonne Liu / Specialist

APPROVED BY : Sam chen , **DATE** : Jun. 13, 2014
Sam Chen / Senior Project Engineer

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C | | | |
|--|------------------------|--------|---|
| STANDARD PARAGRAPH | TEST TYPE | RESULT | REMARK |
| 15.209 | Radiated Emission Test | PASS | Meet the requirement of limit. Minimum passing margin is -21.17dB at 2.5MHz. |

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|--------------------|-----------------|-------------|
| Radiated emissions | 30MHz ~ 200MHz | 3.34 dB |
| | 200MHz ~1000MHz | 3.35 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|----------------------------|--------------------------------|
| EUT | Tablet |
| MODEL NO. | T800 |
| POWER SUPPLY | 19Vdc (adapter) |
| OPERATING FREQUENCY | 500 kHz 400 kHz (Button on) |
| DATA CABLE | Refer to note as below |
| I/O PORT | Refer to user's manual |
| ACCESSORY DEVICES | Refer to note as below |

NOTE:

1. The EUT has following accessories.

| ITEM | BRAND | MODEL | SPECIFICATION |
|----------------|-------|-------------|--|
| Adapter | Getac | ADP-65WH BB | I/P: 100-240Vac, 1.5A O/P: 19Vdc, 3.42A AC power code 1.8m |
| WWAN Module | Getac | EM7355 | -- |
| WLAN/BT Module | Intel | 3160NGW | 802.11a/b/g/n/ac + BT4.0 |
| WLAN/BT Module | Intel | 7260NGW | 802.11a/b/g/n/ac + BT4.0 |

2. The device has 2 configurations as below.
Mode A: 500Khz
Mode B: 400Khz (Button on)
3. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (Section 15.209)

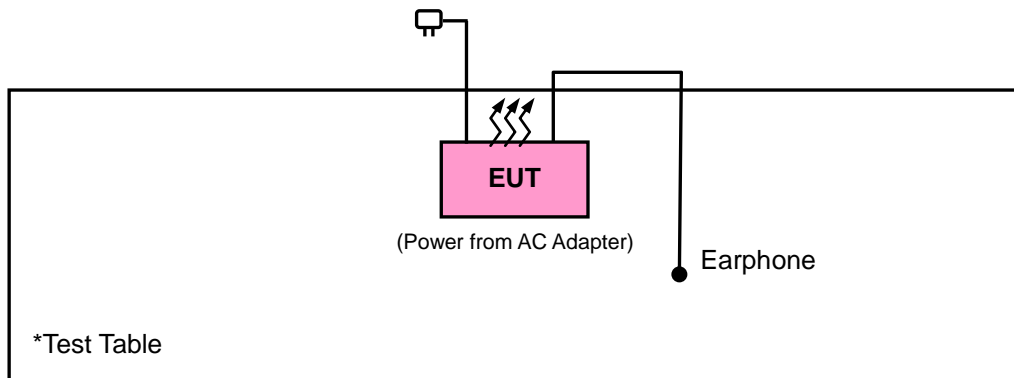
ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any Emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|--|----------------|---------------------|---------------------|-------------------------|
| Test Receiver ROHDE & SCHWARZ | ESCI | 100412 | Sep. 13, 2013 | Sep. 12, 2014 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Dec. 21, 2013 | Dec. 20, 2014 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-472 | Feb. 27, 2014 | Feb. 26, 2015 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D- 209 | Sep. 12, 2013 | Sep. 11, 2014 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 9170-480 | Dec. 18, 2013 | Dec. 17, 2014 |
| Loop Antenna | HFH2-Z2 | 100070 | Mar. 06, 2014 | Mar. 05, 2016 |
| Preamplifier EMCI | EMC 012645 | 980115 | Dec. 26, 2013 | Dec. 25, 2014 |
| Preamplifier EMCI | EMC 184045 | 980116 | Jan. 13, 2014 | Jan. 12, 2015 |
| Preamplifier EMCI | EMC 330H | 980112 | Dec. 27, 2013 | Dec. 26, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 309219/4 2950114 | Oct. 18, 2013 | Oct. 17, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 250130/4 | Oct. 18, 2013 | Oct. 17, 2014 |
| RF signal cable Worken | RG-213 | NA | Nov. 07, 2013 | Nov. 06, 2014 |
| Software BV ADT | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower & Turn Table Controller MF | MF-7802 | NA | NA | NA |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. The test was performed in HwaYa Chamber 10.
 4. The FCC Site Registration No. is 690701.
 5. The IC Site Registration No. is IC 7450F-10.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

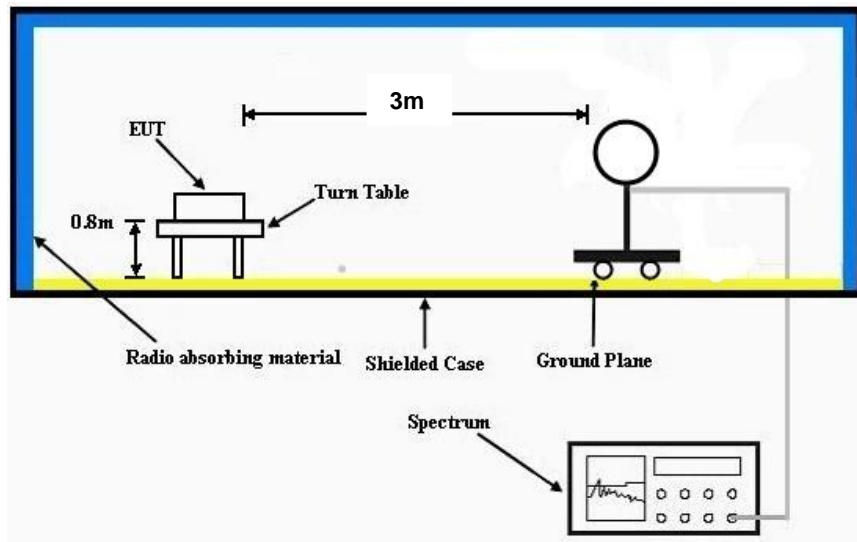
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP

Frequency range 9k~30MHz:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

Set the EUT under charging condition.

4.1.7 TEST RESULTS

MODE A

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|-------------|
| INPUT POWER | 120Vac, 60 Hz | FREQUENCY RANGE | 0.009~30MHz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | DETECTOR FUNCTION | Quasi-Peak |
| TESTED BY | David Huang | | |

| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m | | | | | | | | |
|---|-------------------------|-------------------|----------------|-------------|-----------------------|---------------------|----------------------|--------|
| FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB/m) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK |
| 0.5 | 48.4 | 28.66 | 73.62 | -25.22 | 19.74 | 100 | 360 | QP |
| 1 | 38.95 | 19.2 | 67.6 | -28.65 | 19.75 | 100 | 360 | QP |
| 1.5 | 38.11 | 18.33 | 64.08 | -25.97 | 19.78 | 100 | 360 | QP |
| 2.5 | 48.37 | 28.55 | 69.54 | -21.17 | 19.82 | 100 | 360 | QP |
| 5.5 | 42.36 | 22.55 | 69.54 | -27.18 | 19.81 | 100 | 360 | QP |
| 7 | 37.33 | 17.61 | 69.54 | -32.21 | 19.72 | 100 | 360 | QP |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated by the formula

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|-------------|
| INPUT POWER | 120Vac, 60 Hz | FREQUENCY RANGE | 0.009~30MHz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | DETECTOR FUNCTION | Quasi-Peak |
| TESTED BY | David Huang | | |

| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m | | | | | | | | |
|--|-------------------------|-------------------|----------------|-------------|-----------------------|---------------------|----------------------|--------|
| FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB/m) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK |
| 0.5 | 43.55 | 23.81 | 73.62 | -30.07 | 19.74 | 100 | 0 | QP |
| 2.5 | 37.31 | 17.49 | 69.54 | -32.23 | 19.82 | 100 | 0 | QP |
| 4 | 40.13 | 20.28 | 69.54 | -29.41 | 19.85 | 100 | 0 | QP |
| 5 | 38.27 | 18.44 | 69.54 | -31.27 | 19.83 | 100 | 0 | QP |
| 5.5 | 37.41 | 17.6 | 69.54 | -32.13 | 19.81 | 100 | 0 | QP |
| 7 | 36.25 | 16.53 | 69.54 | -33.29 | 19.72 | 100 | 0 | QP |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated by the formula



A D T

MODE B

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|--------------------|
| INPUT POWER | 120Vac, 60 Hz | FREQUENCY RANGE | 0.009~30MHz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | DETECTOR FUNCTION | Quasi-Peak Average |
| TESTED BY | David Huang | | |

| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m | | | | | | | | |
|---|-------------------------|-------------------|----------------|-------------|-----------------------|---------------------|----------------------|---------|
| FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB/m) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK |
| 0.4 | 46.62 | 26.87 | 95.56 | -48.94 | 19.75 | 100 | 318 | Average |
| 0.8 | 36.93 | 17.18 | 69.54 | -32.61 | 19.75 | 100 | 318 | QP |
| 1.2 | 35.81 | 16.05 | 66.02 | -30.21 | 19.76 | 100 | 318 | QP |
| 1.6 | 33.97 | 14.19 | 63.52 | -29.55 | 19.78 | 100 | 318 | QP |
| 2 | 40.63 | 20.83 | 69.54 | -28.91 | 19.8 | 100 | 318 | QP |
| 2.4 | 41.11 | 21.29 | 69.54 | -28.43 | 19.82 | 100 | 318 | QP |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated by the formula



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|-----------------------|
| INPUT POWER | 120Vac, 60 Hz | FREQUENCY RANGE | 0.009~30MHz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | DETECTOR FUNCTION | Quasi-Peak Average |
| TESTED BY | David Huang | | |

| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m | | | | | | | | |
|--|-------------------------|-------------------|----------------|-------------|-----------------------|---------------------|----------------------|---------|
| FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | READ LEVEL (dBuV) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA FACTOR (dB/m) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | REMARK |
| 0.4 | 45.26 | 25.51 | 95.56 | -50.3 | 19.75 | 100 | 0 | Average |
| 0.8 | 37.54 | 17.79 | 69.54 | -32 | 19.75 | 100 | 0 | QP |
| 1.2 | 35.64 | 15.88 | 66.02 | -30.38 | 19.76 | 100 | 0 | QP |
| 1.6 | 38.19 | 18.41 | 63.52 | -25.33 | 19.78 | 100 | 0 | QP |
| 2 | 47.18 | 27.38 | 69.54 | -22.36 | 19.8 | 100 | 0 | QP |
| 2.4 | 36.45 | 16.63 | 69.54 | -33.09 | 19.82 | 100 | 0 | QP |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated by the formula

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Copies of accreditation and authorization certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5.phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---