

## Partial FCC Test Report

### (PART 27)

**Report No.:** RF170711C04-7

**FCC ID:** QYLEM7355X

**Test Model:** Wireless Modules

**Received Date:** Jul. 11, 2017

**Test Date:** Aug. 18, 2017

**Issued Date:** Aug. 31, 2017

**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. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan ( R.O.C )

**Test Location (1):** No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan, R.O.C.

**Test Location (2):** No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan, R.O.C



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### Release Control Record

| Issue No.     | Description      | Date Issued   |
|---------------|------------------|---------------|
| RF170711C04-7 | Original Release | Aug. 31, 2017 |

## 1 Certificate of Conformity

**Product:** Wireless Modules

**Brand:** Sierra

**Test Model:** Wireless Modules

**Sample Status:** Identical Prototype

**Applicant:** Getac Technology Corporation.

**Test Date:** Aug. 18, 2017

**Standards:** FCC Part 27, Subpart C, L

The above equipment 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 :** Rona Chen , **Date:** Aug. 31, 2017  
Rona Chen / Specialist

**Approved by :** David Huang , **Date:** Aug. 31, 2017  
David Huang / Project Engineer

## 2 Summary of Test Results

| Applied Standard: FCC Part 27 & Part 2 |                              |        |                                                                                      |
|----------------------------------------|------------------------------|--------|--------------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                    | Result | Remarks                                                                              |
| 2.1046<br>27.50(d)(4)                  | Maximum Peak Output Power    | Pass   | Meet the requirement of limit.                                                       |
| 2.1055<br>27.54                        | Frequency Stability          | N/A    | Refer to Note                                                                        |
| 2.1049<br>27.53(h)                     | Occupied Bandwidth           | N/A    | Refer to Note                                                                        |
| 27.50(d)(5)                            | Peak to Average Ratio        | N/A    | Refer to Note                                                                        |
| 27.53(h)                               | Band Edge Measurements       | N/A    | Refer to Note                                                                        |
| 2.1051<br>27.53(h)                     | Conducted Spurious Emissions | N/A    | Refer to Note                                                                        |
| 2.1053<br>27.53(h)                     | Radiated Spurious Emissions  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -32.65 dB at 153.39 MHz. |

Note:

Test item for Effective Radiated Power and Radiated Spurious Emissions were performed for this report. For other test data, please refer to SIERRA WIRELESS™ EM7355/EM7655 Modem Test Report For WCDMA / HSPA Rev. 2 for module (Brand: Sierra, Model: EM7355).

### 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         | Expended Uncertainty (k=2) (±) |
|------------------------------------|-------------------|--------------------------------|
| Conducted Emissions at mains ports | 150 kHz ~ 30 MHz  | 2.44 dB                        |
| Radiated Emissions up to 1 GHz     | 30 MHz ~ 200 MHz  | 2.0153 dB                      |
|                                    | 200 MHz ~1000 MHz | 2.0224 dB                      |
| Radiated Emissions above 1 GHz     | 1 GHz ~ 18 GHz    | 1.0121 dB                      |
|                                    | 18 GHz ~ 40 GHz   | 1.1508 dB                      |

## 2.2 Test Site and Instruments

| Description & Manufacturer                     | Model No.            | Serial No.                                                        | Date of Calibration | Due Date of Calibration |
|------------------------------------------------|----------------------|-------------------------------------------------------------------|---------------------|-------------------------|
| Test Receiver<br>Agilent Technologies          | N9038A               | MY52260177                                                        | Jul. 05, 2017       | Jul. 04, 2018           |
| Spectrum Analyzer<br>ROHDE & SCHWARZ           | FSU43                | 101261                                                            | Dec. 13, 2016       | Dec. 12, 2017           |
| BILOG Antenna<br>SCHWARZBECK                   | VULB9168             | 9168-472                                                          | Dec. 16, 2016       | Dec. 15, 2017           |
| HORN Antenna<br>ETS-Lindgren                   | 3117                 | 00143293                                                          | Dec. 29, 2016       | Dec. 28, 2017           |
| Double Ridge Guide Horn<br>Antenna EMCO        | 3115                 | 5619                                                              | Dec. 27, 2016       | Dec. 26, 2017           |
| BILOG Antenna<br>SCHWARZBECK                   | VULB 9168            | 9168-153                                                          | Dec. 13, 2016       | Dec. 12, 2017           |
| MXG Vector signal<br>generator<br>Agilent      | N5182B               | MY53050430                                                        | Oct. 19, 2016       | Oct. 18, 2017           |
| Preamplifier<br>Agilent                        | 310N                 | 187226                                                            | Jun. 23, 2017       | Jun. 22, 2018           |
| Preamplifier<br>Agilent                        | 83017A               | MY39501357                                                        | Jun. 23, 2017       | Jun. 22, 2018           |
| Power Meter<br>Anritsu                         | ML2495A              | 1232002                                                           | Sep. 08, 2016       | Sep. 07, 2017           |
| Power Sensor<br>Anritsu                        | MA2411B              | 1207325                                                           | Sep. 08, 2016       | Sep. 07, 2017           |
| RF signal cable<br>ETS-LINDGREN                | 5D-FB                | Cable-CH1-01(R<br>FC-SMS-100-SM<br>S-120+RFC-SMS<br>-100-SMS-400) | Jun. 23, 2017       | Jun. 22, 2018           |
| RF signal cable<br>ETS-LINDGREN                | 8D-FB                | Cable-CH1-02(R<br>FC-SMS-100-SM<br>S-24)                          | Jun. 23, 2017       | Jun. 22, 2018           |
| Software<br>BV ADT                             | E3<br>8.130425b      | NA                                                                | NA                  | NA                      |
| Antenna Tower<br>MF                            | NA                   | NA                                                                | NA                  | NA                      |
| Turn Table<br>MF                               | NA                   | NA                                                                | NA                  | NA                      |
| Antenna Tower & Turn<br>Table Controller<br>MF | MF-7802              | NA                                                                | NA                  | NA                      |
| Radio Communication<br>Analyzer<br>Anritsu     | MT8820C              | 6201240432                                                        | Aug. 22, 2016       | Aug. 21, 2017           |
| Temperature & Humidity<br>Chamber              | GTH-120-40-CP-A<br>R | MAA1306-019                                                       | Sep. 02, 2016       | Sep. 01, 2017           |
| DC Power Supply<br>Topward                     | 33010D               | 807748                                                            | Oct. 25, 2016       | Oct. 24, 2018           |
| Digital Multimeter<br>Fluke                    | 87-III               | 70360742                                                          | Jun. 30, 2017       | Jun. 29, 2018           |

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in HsinTien Chamber 1.
  3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
  4. The IC Site Registration No. is IC7450I-1.

### 3 General Information

#### 3.1 General Description of EUT

|                            |                          |                     |
|----------------------------|--------------------------|---------------------|
| <b>Product</b>             | Wireless Modules         |                     |
| <b>Brand</b>               | Sierra                   |                     |
| <b>Test Model</b>          | Wireless Modules         |                     |
| <b>Status of EUT</b>       | Identical Prototype      |                     |
| <b>Power Supply Rating</b> | 5.0 Vdc (Host equipment) |                     |
| <b>Modulation Type</b>     | WCDMA                    | QPSK                |
| <b>Frequency Range</b>     | WCDMA                    | 1712.4 ~ 1752.6 MHz |
| <b>Max. EIRP Power</b>     | WCDMA                    | 160.95mW            |
| <b>Antenna Type</b>        | Fixed Internal Antenna   |                     |
| <b>Accessory Device</b>    | Refer to Note as below   |                     |
| <b>Data Cable Supplied</b> | Refer to Note as below   |                     |

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

| Product           | Brand | Model | Antenna Type |
|-------------------|-------|-------|--------------|
| Notebook computer | Getac | X500  | PIFA antenna |

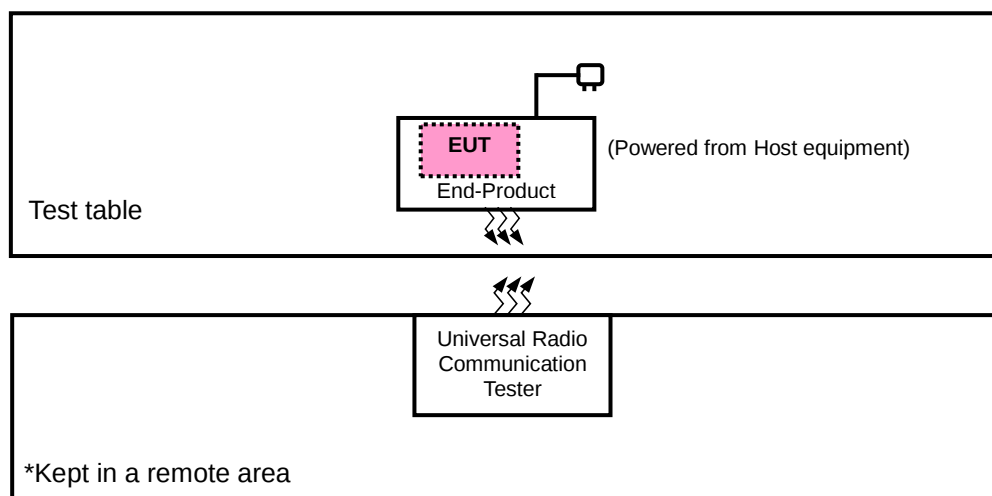
2. The End-product contains following accessory devices.

| Product        | Brand  | Model            | Description                                              |
|----------------|--------|------------------|----------------------------------------------------------|
| Adapter        | FSP    | FSP150-ABBN3     | I/P: 100-240 Vac, 50-60 Hz, 2.0 A<br>O/P: 19 Vdc, 7.89 A |
| Battery        | N/A    | BP-LP2900/3301PI | 10.8Vdc, 8700mAh, 94wh                                   |
| BT/WLAN Module | Intel  | 8265NGW          | --                                                       |
| WWAN Module    | Sierra | EM7355           | --                                                       |

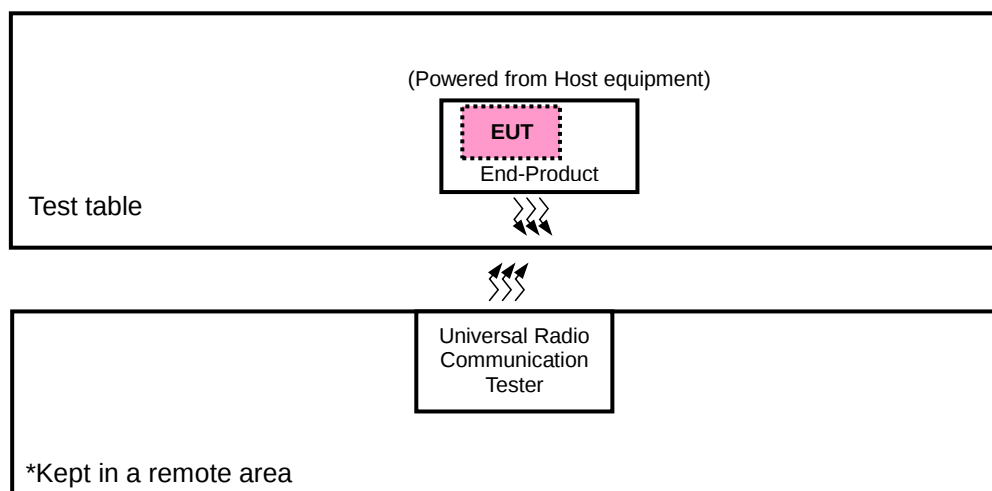
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 3.2 Configuration of System under Test

### <Radiated Emission Test>



### <E.I.R.P. Test>



#### 3.2.1 Description of Support Units

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

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

| EUT Configure Mode | Test Item         | Available Channel | Tested Channel   | Mode  |
|--------------------|-------------------|-------------------|------------------|-------|
| -                  | EIRP              | 1312 to 1513      | 1312, 1413, 1513 | WCDMA |
| -                  | Radiated Emission | 1312 to 1513      | 1312, 1413, 1513 | WCDMA |

#### Test Condition:

| Test Item         | Environmental Conditions | Input Power    | Tested By   |
|-------------------|--------------------------|----------------|-------------|
| ERP / EIRP        | 25 deg. C, 65 % RH       | 5 Vdc          | Harry Hsueh |
| Radiated Emission | 25 deg. C, 65 % RH       | 120 Vac, 60 Hz | Harry Hsueh |

### 3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

### 3.5 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 47 CFR Part 2**

**FCC 47 CFR Part 27**

**KDB 971168 D01 Power Meas License Digital Systems v02r02**

**ANSI/TIA/EIA-603-D 2010**

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

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

#### 4.1.2 Test Procedures

##### **EIRP / ERP Measurement:**

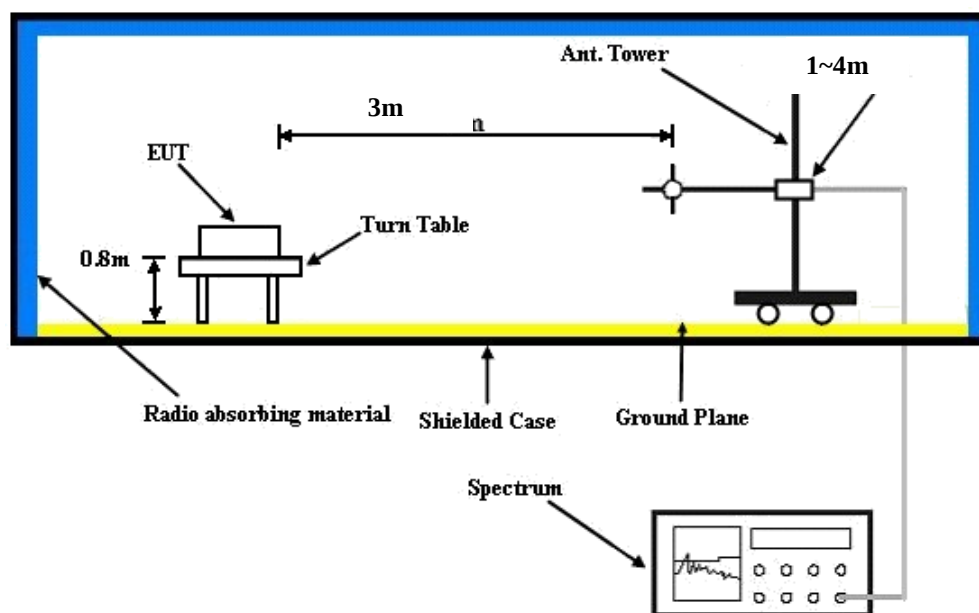
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5 MHz for WCDMA and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G.
- d.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$ .

##### **Conducted Power Measurement:**

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

#### 4.1.3 Test Setup

##### EIRP / ERP Measurement:



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

##### Conducted Power Measurement:



#### 4.1.4 Test Results

##### Conducted Output Power (dBm)

| Band            | WCDMA IV |        |        |
|-----------------|----------|--------|--------|
| Channel         | 1312     | 1413   | 1513   |
| Frequency (MHz) | 1712.4   | 1732.6 | 1752.6 |
| RMC 12.2K       | 22.28    | 23.16  | 23.05  |
| HSDPA Subtest-1 | 21.55    | 21.78  | 21.61  |
| HSDPA Subtest-2 | 21.76    | 21.92  | 21.88  |
| HSDPA Subtest-3 | 21.37    | 21.69  | 21.47  |
| HSDPA Subtest-4 | 21.57    | 21.72  | 21.66  |
| HSUPA Subtest-1 | 20.49    | 20.66  | 20.58  |
| HSUPA Subtest-2 | 21.24    | 21.64  | 21.55  |
| HSUPA Subtest-3 | 20.33    | 20.73  | 20.49  |
| HSUPA Subtest-4 | 18.83    | 19.22  | 19.05  |
| HSUPA Subtest-5 | 20.81    | 21.16  | 21.06  |

##### EIRP Power (dBm)

| WCDMA   |                 |           |                        |            |           |                    |
|---------|-----------------|-----------|------------------------|------------|-----------|--------------------|
| Channel | Frequency (MHz) | LVL (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| 1312    | 1712.4          | -20.49    | 42.49                  | 22.00      | 158.31    | H                  |
| 1413    | 1732.6          | -20.26    | 42.33                  | 22.07      | 160.95    |                    |
| 1513    | 1752.6          | -20.05    | 42.10                  | 22.05      | 160.32    |                    |
| 1312    | 1712.4          | -26.84    | 42.99                  | 16.15      | 41.21     | V                  |
| 1413    | 1732.6          | -26.62    | 42.74                  | 16.12      | 40.93     |                    |
| 1513    | 1752.6          | -26.17    | 42.21                  | 16.04      | 40.18     |                    |

## 4.2 Radiated Emission Measurement

### 4.2.1 Limits of Radiated Emission Measurement

- a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -13 dBm.

### 4.2.2 Test Procedure

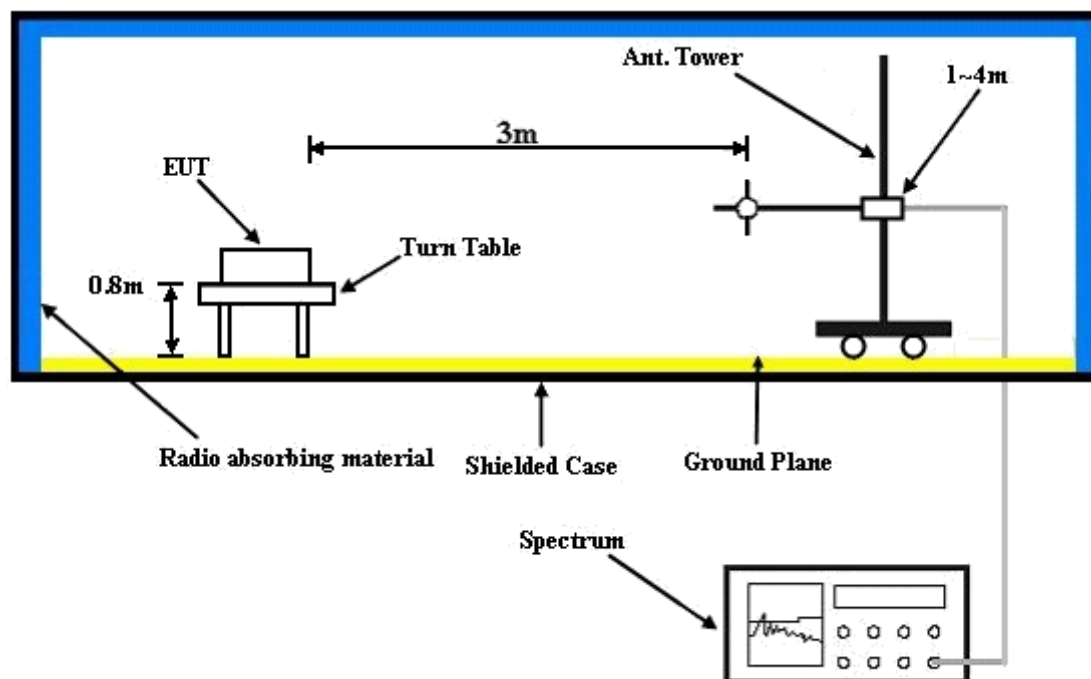
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

**Note:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

### 4.2.3 Deviation from Test Standard

No deviation.

#### 4.2.4 Test Setup



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

#### 4.2.5 Test Results

WCDMA:

Low Channel

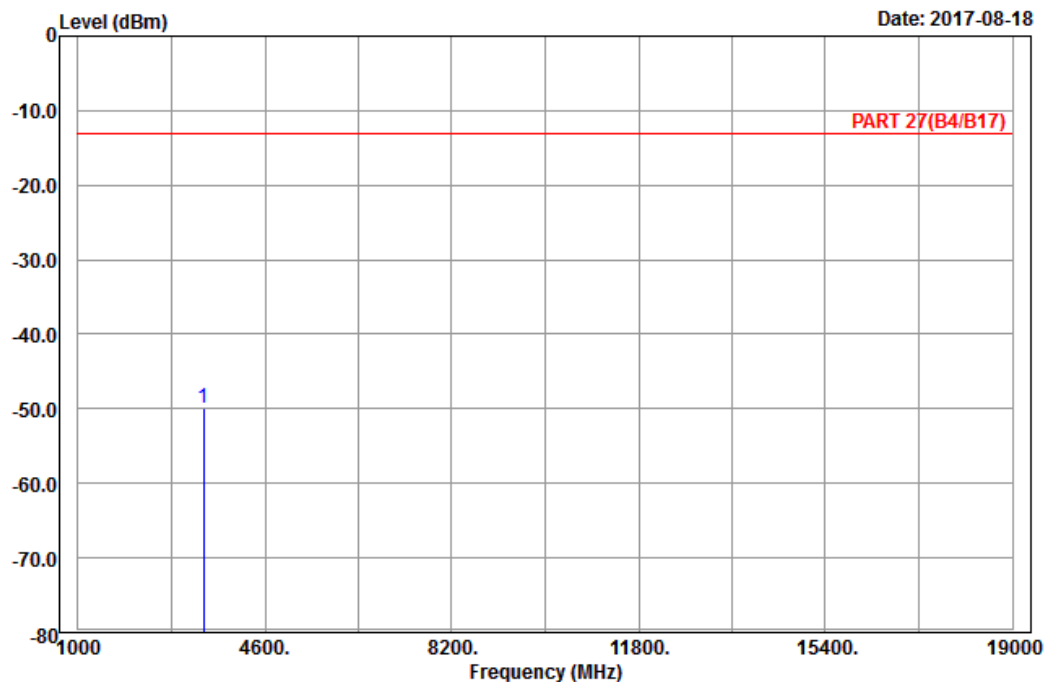


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Data: 9

Date: 2017-08-18



Site : 966 chamber 1

Condition: PART 27(B4/B17) Horizontal

Remark : Band IV\_Link\_CH1312

Tested by: Harry Hsueh

|              |        |        | Read   | Limit  | Over   |        |  |
|--------------|--------|--------|--------|--------|--------|--------|--|
| Freq         | Level  | Level  | Line   | Limit  | Factor | Remark |  |
| MHz          | dBm    | dBm    | dBm    | dB     | dB     |        |  |
| 1 pp 3424.80 | -49.99 | -64.36 | -13.00 | -36.99 | 14.37  | Peak   |  |

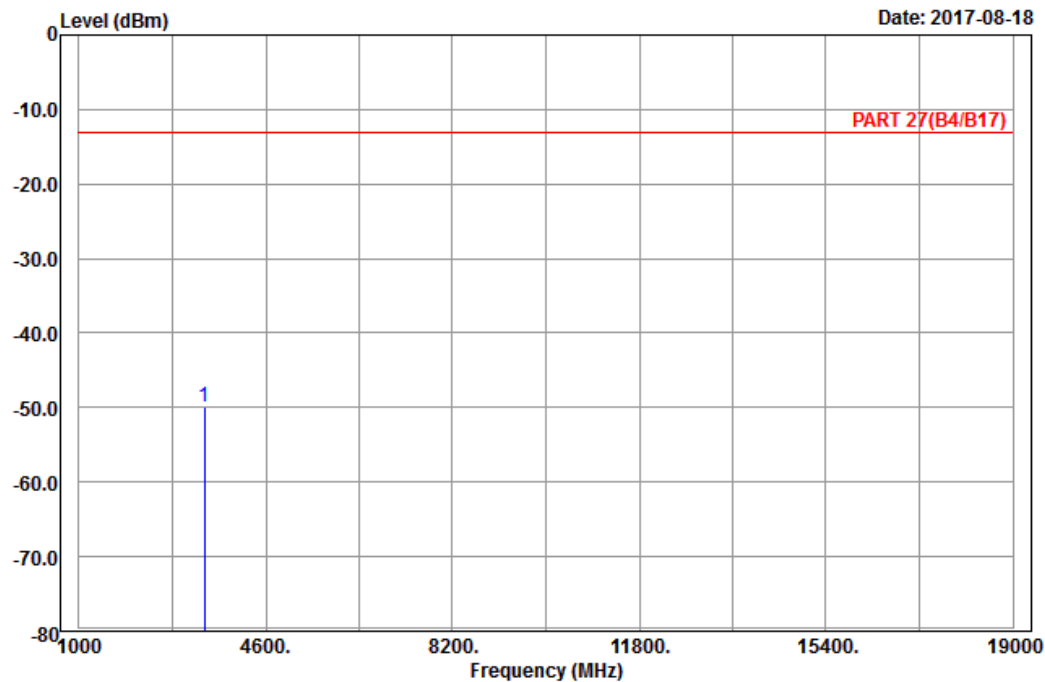


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Data: 10

Date: 2017-08-18



Site : 966 chamber 1  
 Condition: PART 27(B4/B17) Vertical  
 Remark : Band IV\_Link\_CH1312  
 Tested by: Harry Hsueh

|              |        | Read   | Limit  | Over   |        |        |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq         | Level  | Level  | Line   | Limit  | Factor | Remark |
| MHz          | dBm    | dBm    | dBm    | dB     | dB     |        |
| 1 pp 3424.80 | -50.00 | -64.37 | -13.00 | -37.00 | 14.37  | Peak   |

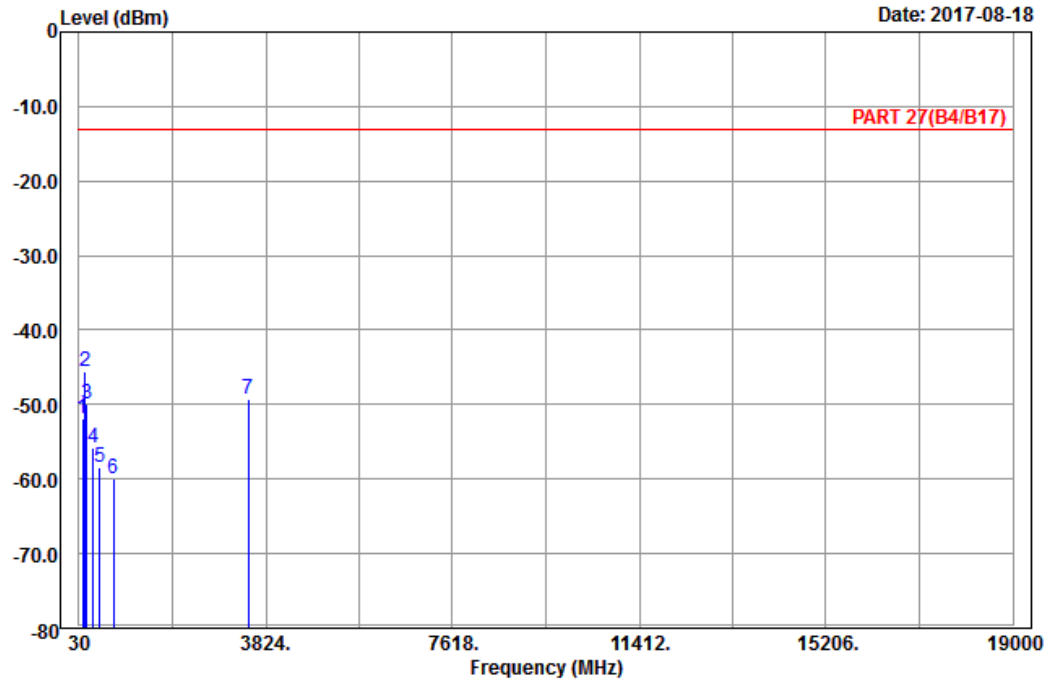
# Middle Channel



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Data: 13



Site : 966 chamber 1  
Condition: PART 27(B4/B17) Horizontal  
Remark : Band IV\_Link\_CH1413  
Tested by: Harry Hsueh

|      |         | Read   | Limit  | Over   |        |        |      |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level   | Level  | Line   | Limit  | Factor | Remark |      |
| MHz  | dBm     | dBm    | dBm    | dB     | dB     |        |      |
| 1    | 112.35  | -51.87 | -43.11 | -13.00 | -38.87 | -8.76  | Peak |
| 2 pp | 153.39  | -45.65 | -37.79 | -13.00 | -32.65 | -7.86  | Peak |
| 3    | 182.55  | -49.93 | -44.32 | -13.00 | -36.93 | -5.61  | Peak |
| 4    | 318.90  | -55.75 | -50.01 | -13.00 | -42.75 | -5.74  | Peak |
| 5    | 447.70  | -58.52 | -54.72 | -13.00 | -45.52 | -3.80  | Peak |
| 6    | 736.80  | -59.95 | -58.88 | -13.00 | -46.95 | -1.07  | Peak |
| 7    | 3465.20 | -49.26 | -63.60 | -13.00 | -36.26 | 14.34  | Peak |

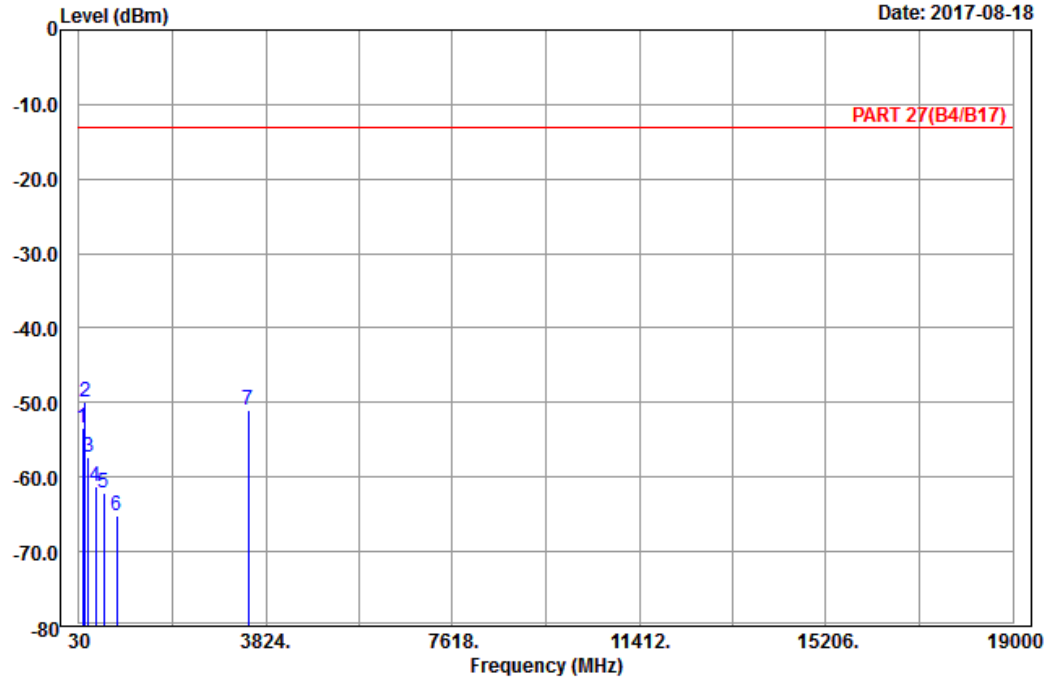


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Data: 14

Date: 2017-08-18



Site : 966 chamber 1  
Condition: PART 27(B4/B17) Vertical  
Remark : Band IV\_Link\_CH1413  
Tested by: Harry Hsueh

|   | Freq    | Level  | Read Level | Limit Line | Over Limit | Factor | Remark |
|---|---------|--------|------------|------------|------------|--------|--------|
|   | MHz     | dBm    | dBm        | dBm        | dB         | dB     |        |
| 1 | 110.46  | -53.43 | -44.55     | -13.00     | -40.43     | -8.88  | Peak   |
| 2 | 159.06  | -49.95 | -42.25     | -13.00     | -36.95     | -7.70  | Peak   |
| 3 | 221.43  | -57.28 | -51.38     | -13.00     | -44.28     | -5.90  | Peak   |
| 4 | 368.60  | -61.35 | -56.95     | -13.00     | -48.35     | -4.40  | Peak   |
| 5 | 534.50  | -62.04 | -59.24     | -13.00     | -49.04     | -2.80  | Peak   |
| 6 | 803.30  | -65.14 | -67.12     | -13.00     | -52.14     | 1.98   | Peak   |
| 7 | 3465.20 | -51.00 | -65.34     | -13.00     | -38.00     | 14.34  | Peak   |

# High Channel

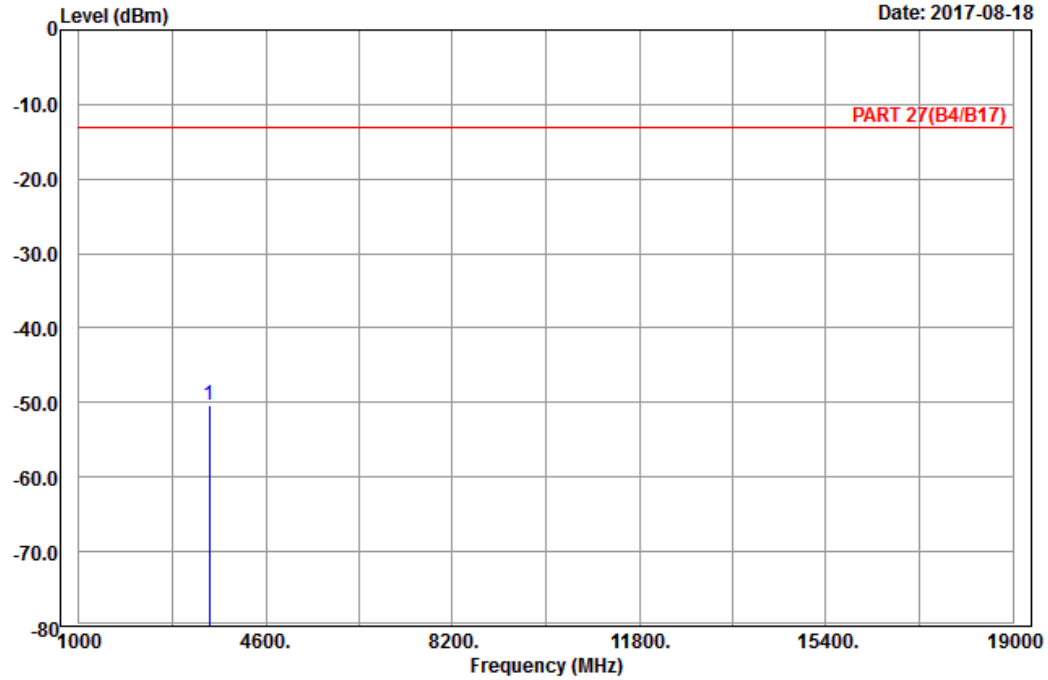


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A D T

Data: 9

Date: 2017-08-18



Site : 966 chamber 1  
Condition: PART 27(B4/B17) Horizontal  
Remark : Band IV\_Link\_CH1513  
Tested by: Harry Hsueh

|              |        | Read   | Limit  | Over   |        |        |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq         | Level  | Level  | Line   | Limit  | Factor | Remark |
| MHz          | dBm    | dBm    | dBm    | dB     | dB     |        |
| 1 pp 3505.20 | -50.42 | -64.70 | -13.00 | -37.42 | 14.28  | Peak   |

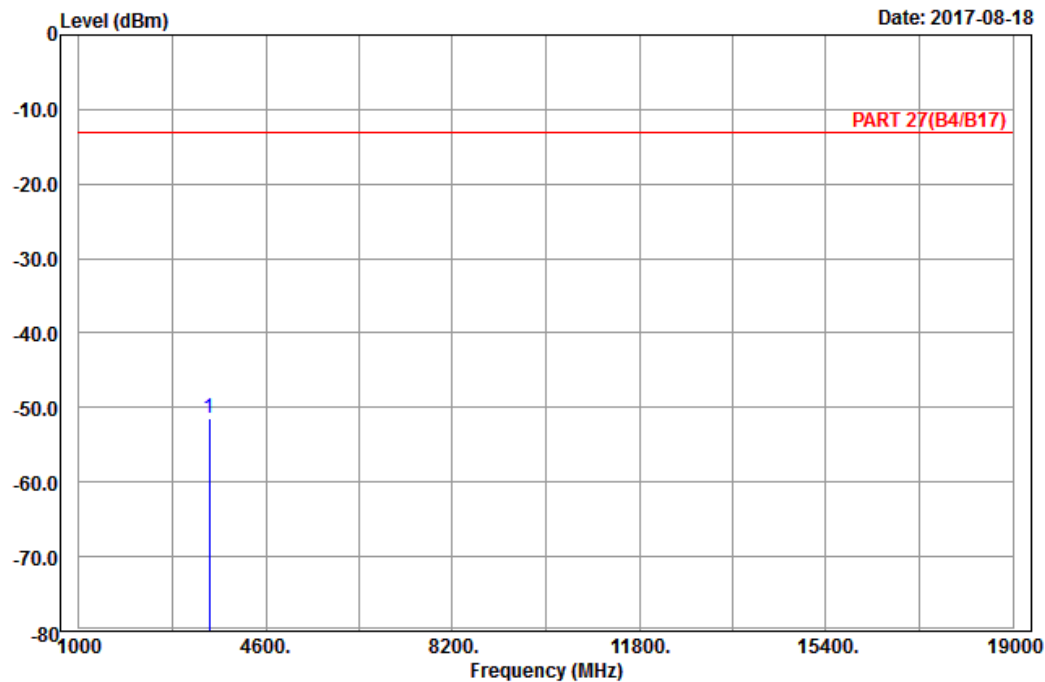


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A D T

Data: 10

Date: 2017-08-18



Site : 966 chamber 1  
Condition: PART 27(B4/B17) Vertical  
Remark : Band IV\_Link\_CH1513  
Tested by: Harry Hsueh

|              |        | Read   | Limit  | Over   |        |        |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq         | Level  | Level  | Line   | Limit  | Factor | Remark |
| MHz          | dBm    | dBm    | dBm    | dB     | dB     |        |
| 1 pp 3505.20 | -51.47 | -65.75 | -13.00 | -38.47 | 14.28  | Peak   |

## 5 Pictures of Test Arrangements

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

## Appendix – 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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

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