

FCC TEST REPORT

REPORT NO.: RF140721C09

MODEL NO.: DSB012N, DSB017N, DSB019N,

DSB212N, DSB217N

FCC ID: RD2DB012002

RECEIVED: Jul. 21, 2014

TESTED: Aug. 04 ~ Aug. 12, 2014

ISSUED: Aug. 14, 2014

APPLICANT: DXG Technology Corp.

ADDRESS: 15Fl., No. 4, Sec. 3, Ming-Chuan East Road,

Taipei, 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: 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. | SSUE NO. REASON FOR CHANGE | | | |
|-------------|----------------------------|---------------|--|--|
| RF140721C09 | Original release. | Aug. 14, 2014 | | |

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1. CERTIFICATION

PRODUCT: Fitness Tracker

MODEL NO.: DSB012N, DSB017N, DSB019N, DSB212N, DSB217N

BRAND: ezfit

APPLICANT: DXG Technology Corp.

TESTED: Aug. 04 ~ Aug. 12, 2014

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10-2009

The above equipment (model: DSB012N, DSB017N, DSB019N) 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 : , DATE : Aug. 14, 2014

Pettie Chen / Senior Specialist



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) | | | | | | | | |
|---|-----------------------------|--------|---|--|--|--|--|--|
| STANDARD SECTION | TEST TYPE AND LIMIT | RESULT | REMARK | | | | | |
| 15.207 | AC Power Conducted Emission | NA | Power supply is 3Vdc from battery. | | | | | |
| 15.247(d) 15.209 | Radiated Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -2.40dB at 29.90MHz. | | | | | |
| 15.247(d) | Band Edge Measurement | PASS | Meet the requirement of limit. | | | | | |
| 15.247(a)(2) | 6dB bandwidth | PASS | Meet the requirement of limit. | | | | | |
| 15.247(b) | Conducted power | PASS | Meet the requirement of limit. | | | | | |
| 15.247(e) | Power Spectral Density | PASS | Meet the requirement of limit. | | | | | |
| 15.203 | Antenna Requirement | PASS | No antenna connector is used. | | | | | |

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 | |
|--------------------|-----------------|-------------|--|
| | 30MHz ~ 200MHz | 3.34 dB | |
| Radiated emissions | 200MHz ~1000MHz | | |
| Radiated emissions | 1GHz ~ 18GHz | 2.26 dB | |
| | 18GHz ~ 40GHz | 1.94 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 | Fitness Tracker |
|---------------------|---|
| MODEL NO. | DSB012N, DSB017N, DSB019N, DSB212N, DSB217N |
| POWER SUPPLY | 3Vdc (from battery) |
| MODULATION TYPE | GFSK |
| TRANSFER RATE | 1Mbps |
| OPERATING FREQUENCY | 2402~2480MHz |
| NUMBER OF CHANNEL | 40 |
| CHANNEL SPACING | 2MHz |
| OUTPUT POWER | 0.3864mW |
| ANTENNA TYPE | Chip antenna with 1.72dBi gain |
| ANTENNA CONNECTOR | NA |
| DATA CABLE | NA |
| I/O PORTS | Refer to user's manual |
| ACCESSORY DEVICE | Battery |

NOTE:

1. The following models are provided to the EUT. The models are caliber and PCB layout identical, the differences as below.

| | Difference | | | | | | | |
|---------|--------------------|--------------------|----------------------|---------------------------|--|--|--|--|
| Model | Outward appearance | Gentleman/ Lady | Length of watch band | Color | | | | |
| DSB012N | * | Gentleman | Long | Blue, Green, Orange | | | | |
| DSB212N | | Lady | Short | Purple, White, Blue | | | | |
| DSB017N | | Gentleman | Long | Black, White, Green, Blue | | | | |
| DSB217N | | Lady | Short | White, Blue, Purple | | | | |
| DSB019N | | | | Blue, Green, Orange | | | | |

^{*} Model: DSB012N, DSB017N, DSB019N were chosen for the final test and presented in the test report.



2. The EUT consumes power from the following battery.

| BATTERY | | | | | |
|---------|--------------|--|--|--|--|
| MODEL | CR2032 | | | | |
| RATING | 3Vdc, 225mAh | | | | |
| TYPE | Li-ion | | | | |

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 DESCRIPTION OF TEST MODES

40 channels are provided to this EUT:

| CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |



3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGUURE | APPLICABLE TO | | | | DECORIDEION |
|-------------------|---------------|--------------|------|-------------|--------------------|
| MODE | | | APCM | DESCRIPTION | |
| Α | √ | \checkmark | Note | √ | EUT Model: DSB012N |
| В | - | \checkmark | - | - | EUT Model: DSB017N |
| С | - | \checkmark | - | - | EUT Model: DSB019N |

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

- 2. No need to concern of Conducted Emission due to the EUT is powered by battery.
- 3. "-": Means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGUURE MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|---------------------------|----------------------|----------------|-----------------|------------------|
| А | 0 to 39 | 0, 19, 39 | GFSK | 1 |

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGUURE MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|---------------------------|----------------------|----------------|-----------------|------------------|
| A, B, C | 0 to 39 | 0 | GFSK | 1 |

ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGUURE MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) | |
|---------------------------|----------------------|----------------|-----------------|------------------|--|
| А | 0 to 39 | 0, 19, 39 | GFSK | 1 | |

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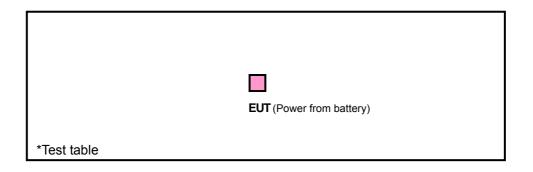
TEST CONDITION:

| APPLICABLE TO ENVIRONMENTAL CONDITIONS | | INPUT POWER | TESTED BY |
|--|------------------------------------|-------------|--------------------------|
| RE≥1G | RE≥1G 22deg. C, 65%RH 3Vdc | | Jones Chang |
| RE<1G | 22deg. C, 65%RH 25deg. C, 65%RH | 3Vdc | Jones Chang Ted Chang |
| APCM | ů , | | Chris Lin |

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





3.4 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 (15.247) 558074 D01 DTS Meas Guidance v03r02 ANSI C63.10-2009

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. 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 |

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. 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 | ESIB7 | 100187 | Jan. 02, 2014 | Jan. 01, 2015 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100039 | Mar. 03, 2014 | Mar. 02, 2015 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-160 | Feb. 26, 2014 | Feb. 25, 2015 |
| HORN Antenna SCHWARZBECK | 9120D | 209 | Sep. 12, 2013 | Sep. 11, 2014 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170241 | Feb. 17, 2014 | Feb. 16, 2015 |
| Preamplifier Agilent | 8447D | 2944A10633 | Oct. 07, 2013 | Oct. 06, 2014 |
| Preamplifier Agilent | 8449B | 3008A01964 | Aug. 26, 2013 | Aug. 25, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 214378/4 | Aug. 26, 2013 | Aug. 25, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 106 | 12738/6 +309224/4 | Aug. 26, 2013 | Aug. 25, 2014 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.4 | NA | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 013303 | NA | NA |
| Antenna Tower Controller inn-co GmbH | CO2000 | 017303 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021703 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021703 | NA | NA |
| JFW 20dB attenuation | 50HF-020-SMA | NA | NA | NA |
| High Speed Peak Power Meter | ML2495A | 0824011 | Jul. 26, 2014 | Jul. 25, 2015 |
| Power Sensor | MA2411B | 0738171 | Jul. 26, 2014 | Jul. 25, 2015 |

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 test was performed in HwaYa Chamber 3.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 988962.
- 5. The IC Site Registration No. is IC 7450F-3.



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 Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T(Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

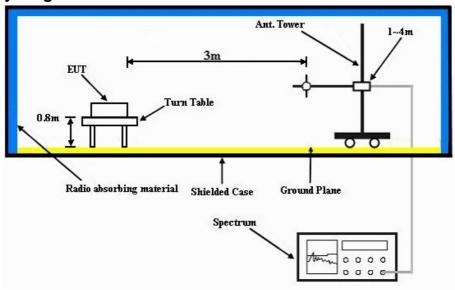
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

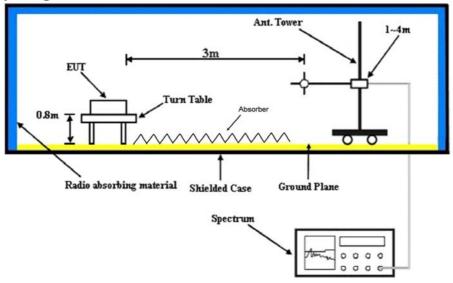


4.1.5 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

4.1.6 EUT OPERATING CONDITIONS

a. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 TEST RESULTS

ABOVE 1GHz DATA

| EUT TEST CONDITION | | MEASUREMENT DETAIL | | |
|--------------------------|-----------------|--------------------|---------------------------|--|
| CHANNEL | Channel 0 | FREQUENCY RANGE | 1 ~ 25GHz | |
| INPUT POWER | 3Vdc | | Peak (PK) Average (AV) | |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 65%RH | TESTED BY | Jones Chang | |

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | 2390.00 | 55.5 PK | 74.0 | -18.5 | 1.35 H | 128 | 24.50 | 31.00 | |
| 2 | 2390.00 | 44.4 AV | 54.0 | -9.6 | 1.35 H | 128 | 13.40 | 31.00 | |
| 3 | *2402.00 | 66.8 PK | | | 1.36 H | 129 | 35.80 | 31.00 | |
| 4 | *2402.00 | 63.9 AV | | | 1.36 H | 129 | 32.90 | 31.00 | |
| 5 | 4804.00 | 52.3 PK | 74.0 | -21.7 | 1.16 H | 340 | 47.40 | 4.90 | |
| 6 | 4804.00 | 43.3 AV | 54.0 | -10.7 | 1.16 H | 340 | 38.40 | 4.90 | |
| | | ANTENNA | A POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | 2390.00 | 54.1 PK | 74.0 | -19.9 | 1.20 V | 40 | 23.10 | 31.00 | |
| 2 | 2390.00 | 43.3 AV | 54.0 | -10.7 | 1.20 V | 40 | 12.30 | 31.00 | |
| 3 | *2402.00 | 65.2 PK | | | 1.20 V | 36 | 34.20 | 31.00 | |
| 4 | *2402.00 | 62.1 AV | | | 1.20 V | 36 | 31.10 | 31.00 | |
| | 4004.00 | 54.0 DV | 74.0 | -22.4 | 1.00 V | 3 | 46.70 | 4.90 | |
| 5 | 4804.00 | 51.6 PK | 74.0 | -22.4 | 1.00 V | 3 | 40.70 | 4.90 | |

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | | |
|--------------------------|-----------------|--------------------|---------------------------|--|
| CHANNEL | Channel 19 | FREQUENCY RANGE | 1 ~ 25GHz | |
| INPUT POWER | 3Vdc | | Peak (PK) Average (AV) | |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 65%RH | TESTED BY | Jones Chang | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *2440.00 | 68.3 PK | | | 1.31 H | 117 | 37.10 | 31.20 | |
| 2 | *2440.00 | 65.8 AV | | | 1.31 H | 117 | 34.60 | 31.20 | |
| 3 | 4880.00 | 52.1 PK | 74.0 | -21.9 | 1.00 H | 330 | 47.10 | 5.00 | |
| 4 | 4880.00 | 42.6 AV | 54.0 | -11.4 | 1.00 H | 330 | 37.60 | 5.00 | |
| | | ANTENNA | A POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *2440.00 | 67.9 PK | | | 1.36 V | 32 | 36.70 | 31.20 | |
| 2 | *2440.00 | 64.9 AV | | | 1.36 V | 32 | 33.70 | 31.20 | |
| 3 | 4880.00 | 50.9 PK | 74.0 | -23.1 | 1.34 V | 19 | 45.90 | 5.00 | |
| 4 | 4880.00 | 42.8 AV | 54.0 | -11.2 | 1.34 V | 19 | 37.80 | 5.00 | |

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | | |
|--------------------------|-----------------|----------------------|---------------------------|--|
| CHANNEL | Channel 39 | FREQUENCY RANGE | 1 ~ 25GHz | |
| INPUT POWER | 3Vdc | DETECTOR FUNCTION | Peak (PK) Average (AV) | |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 65%RH | TESTED BY | Jones Chang | |

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *2480.00 | 70.0 PK | | | 1.31 H | 130 | 38.70 | 31.30 | | |
| 2 | *2480.00 | 67.5 AV | | | 1.31 H | 130 | 36.20 | 31.30 | | |
| 3 | 2483.50 | 55.3 PK | 74.0 | -18.7 | 1.30 H | 130 | 23.90 | 31.40 | | |
| 4 | 2483.50 | 44.2 AV | 54.0 | -9.8 | 1.30 H | 130 | 12.80 | 31.40 | | |
| 5 | 4960.00 | 52.1 PK | 74.0 | -21.9 | 1.00 H | 7 | 46.70 | 5.40 | | |
| 6 | 4960.00 | 43.3 AV | 54.0 | -10.7 | 1.00 H | 7 | 37.90 | 5.40 | | |
| | | ANTENNA | A POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *2480.00 | 77.1 PK | | | 1.98 V | 14 | 45.80 | 31.30 | | |
| 2 | *2480.00 | 63.8 AV | | | 1.98 V | 14 | 32.50 | 31.30 | | |
| 3 | 2483.50 | 55.4 PK | 74.0 | -18.6 | 1.98 V | 16 | 24.00 | 31.40 | | |
| 4 | 2483.50 | 44.5 AV | 54.0 | -9.5 | 1.98 V | 16 | 13.10 | 31.40 | | |
| 5 | 4960.00 | 50.6 PK | 74.0 | -23.4 | 1.34 V | 191 | 45.20 | 5.40 | | |
| _ | 4960.00 | 41.0 AV | 54.0 | -13.0 | 1.34 V | 191 | 35.60 | 5.40 | | |

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



BELOW 1GHz WORST-CASE DATA

| EUT TEST CONDITION | | MEASUREMENT DETAIL | | |
|--------------------------|-----------------|----------------------|---------------|--|
| CHANNEL | Channel 0 | FREQUENCY RANGE | Below 1000MHz | |
| INPUT POWER | 3Vdc | DETECTOR FUNCTION | Quasi-Peak | |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 65%RH | TESTED BY | Jones Chang | |
| TEST MODE | Α | | | |

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | 29.90 | 36.30 QP | 40.00 | -3.70 | 1.49 H | 167 | 52.20 | -15.90 | |
| 2 | 66.84 | 31.20 QP | 40.00 | -8.80 | 1.00 H | 228 | 46.80 | -15.60 | |
| 3 | 99.89 | 25.50 QP | 43.50 | -18.00 | 1.49 H | 348 | 44.30 | -18.80 | |
| 4 | 125.17 | 26.50 QP | 43.50 | -17.00 | 1.49 H | 348 | 42.30 | -15.80 | |
| 5 | 162.11 | 27.20 QP | 43.50 | -16.30 | 1.49 H | 11 | 41.00 | -13.80 | |
| 6 | 243.77 | 23.50 QP | 46.00 | -22.50 | 1.49 H | 239 | 38.00 | -14.50 | |
| | | ANTENNA | A POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | 29.90 | 37.60 QP | 40.00 | -2.40 | 1.00 V | 7 | 53.50 | -15.90 | |
| 2 | 66.84 | 31.00 QP | 40.00 | -9.00 | 1.00 V | 307 | 46.60 | -15.60 | |
| 3 | 99.89 | 26.00 QP | 43.50 | -17.50 | 1.00 V | 269 | 44.80 | -18.80 | |
| 4 | 125.17 | 25.70 QP | 43.50 | -17.80 | 1.00 V | 130 | 41.50 | -15.80 | |
| 5 | 162.11 | 27.00 QP | 43.50 | -16.50 | 1.00 V | 224 | 40.80 | -13.80 | |
| 6 | 199.05 | 23.20 QP | 43.50 | -20.30 | 1.00 V | 5 | 39.80 | -16.60 | |

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | | |
|--------------------------|-----------------|----------------------|---------------|--|
| CHANNEL | Channel 0 | FREQUENCY RANGE | Below 1000MHz | |
| INPUT POWER | 3Vdc | DETECTOR FUNCTION | Quasi-Peak | |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang | |
| TEST MODE | В | | | |

| | | ANTENNA | POLARITY & | & TEST DIS | TANCE: HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 50.20 | 18.0 QP | 40.0 | -22.0 | 1.25 H | 28 | 31.70 | -13.70 |
| 2 | 154.40 | 19.0 QP | 43.5 | -24.5 | 1.51 H | 278 | 32.50 | -13.50 |
| 3 | 762.20 | 26.9 QP | 46.0 | -19.1 | 1.51 H | 214 | 30.70 | -3.80 |
| 4 | 836.80 | 31.0 QP | 46.0 | -15.0 | 1.51 H | 15 | 33.80 | -2.80 |
| 5 | 894.30 | 31.4 QP | 46.0 | -14.6 | 1.25 H | 296 | 33.40 | -2.00 |
| 6 | 978.20 | 30.5 QP | 54.0 | -23.5 | 1.25 H | 28 | 31.10 | -0.60 |
| | | ANTENNA | POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 36.20 | 32.6 QP | 40.0 | -7.4 | 1.00 V | 348 | 47.60 | -15.00 |
| 2 | 53.30 | 18.3 QP | 40.0 | -21.7 | 1.24 V | 178 | 32.10 | -13.80 |
| 3 | 151.20 | 17.6 QP | 43.5 | -25.9 | 1.24 V | 15 | 31.10 | -13.50 |
| 4 | 577.20 | 25.3 QP | 46.0 | -20.7 | 1.24 V | 243 | 32.90 | -7.60 |
| | 926.90 | 30.4 QP | 46.0 | -15.6 | 1.24 V | 15 | 31.50 | -1.10 |
| 5 | 926.90 | 30.4 QP | 40.0 | -15.0 | 1.24 V | 13 | 31.50 | -1.10 |

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | | |
|--------------------------|-----------------|----------------------|---------------|--|
| CHANNEL | Channel 0 | FREQUENCY RANGE | Below 1000MHz | |
| INPUT POWER | 3Vdc | DETECTOR FUNCTION | Quasi-Peak | |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang | |
| TEST MODE | С | | | |

| | | ANTENNA I | POLARITY & | & TEST DIS | TANCE: HO | RIZONTAL | AT 3 M | |
|---|-----------------------------------|--|---|--|--|---|---|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 36.20 | 17.6 QP | 40.0 | -22.4 | 1.50 H | 79 | 32.60 | -15.00 |
| 2 | 154.40 | 17.9 QP | 43.5 | -25.6 | 1.50 H | 15 | 31.40 | -13.50 |
| 3 | 721.70 | 26.0 QP | 46.0 | -20.0 | 1.25 H | 139 | 30.90 | -4.90 |
| 4 | 827.50 | 28.9 QP | 46.0 | -17.1 | 1.50 H | 15 | 31.80 | -2.90 |
| 5 | 926.90 | 30.5 QP | 46.0 | -15.5 | 1.50 H | 15 | 31.60 | -1.10 |
| 6 | 989.10 | 30.9 QP | 54.0 | -23.1 | 1.00 H | 239 | 31.40 | -0.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| | | ANIENNA | A POLAKII I | CA LEST DI | STANCE: V | EKTICAL A | 1 3 IVI | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| NO. | • | EMISSION LEVEL | LIMIT | MARGIN | ANTENNA HEIGHT | TABLE ANGLE | RAW VALUE | FACTOR |
| | (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | FACTOR (dB/m) |
| 1 | (MHz) 36.20 | EMISSION LEVEL (dBuV/m) 31.9 QP | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) 1.00 V | TABLE ANGLE (Degree) | RAW VALUE (dBuV) 46.90 | FACTOR (dB/m) -15.00 |
| 1 2 | (MHz) 36.20 53.30 | EMISSION LEVEL (dBuV/m) 31.9 QP 19.1 QP | LIMIT (dBuV/m) 40.0 40.0 | MARGIN (dB) -8.1 -20.9 | ANTENNA HEIGHT (m) 1.00 V 1.49 V | TABLE ANGLE (Degree) 89 31 | RAW VALUE (dBuV) 46.90 32.90 | FACTOR (dB/m) -15.00 -13.80 |
| 1 2 3 | (MHz) 36.20 53.30 151.20 | EMISSION LEVEL (dBuV/m) 31.9 QP 19.1 QP 17.4 QP | LIMIT (dBuV/m) 40.0 40.0 43.5 | MARGIN (dB) -8.1 -20.9 -26.1 | ANTENNA HEIGHT (m) 1.00 V 1.49 V 1.24 V | TABLE ANGLE (Degree) 89 31 227 | RAW VALUE (dBuV) 46.90 32.90 30.90 | FACTOR (dB/m) -15.00 -13.80 -13.50 |

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



4.2 6dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.2.2 TEST SETUP



4.2.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.2.4 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 100kHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- 3. Trace mode = max hold
- 4. Sweep = auto couple
- 5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.2.5 DEVIATION FROM TEST STANDARD

No deviation.

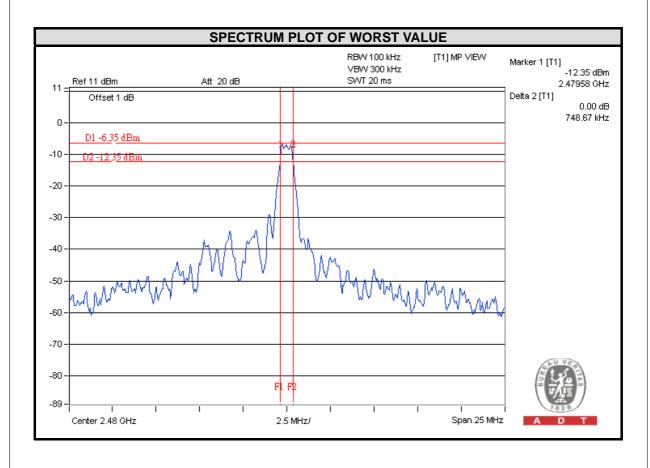
4.2.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.2.7 TEST RESULTS

| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|--------------------|---------------------------|------------------------|-------------|
| 0 | 2402 | 0.73 | 0.5 | PASS |
| 19 | 2440 | 0.71 | 0.5 | PASS |
| 39 | 2480 | 0.75 | 0.5 | PASS |



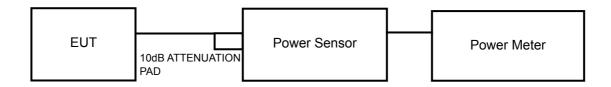


4.3 CONDUCTED OUTPUT POWER

4.3.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz: 1 Watt (30dBm)

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the peak power level.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.3.7 TEST RESULTS

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (mW) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|--------------------|--------------------|---------------------|-------------|-----------|
| 0 | 2402 | 0.3864 | -4.13 | 30 | PASS |
| 19 | 2440 | 0.3133 | -5.04 | 30 | PASS |
| 39 | 2480 | 0.3048 | -5.16 | 30 | PASS |

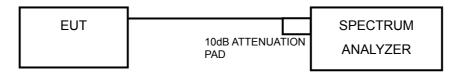


4.4 POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 TEST PROCEDURE

- a. Set resolution bandwidth (RBW) = approximately 1% of the emission bandwidth
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

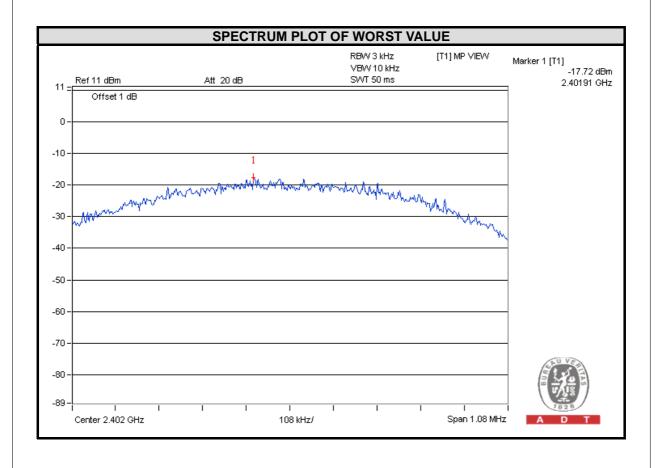
4.4.6 EUT OPERATING CONDITION

Same as Item 4.3.6



4.4.7 TEST RESULTS

| Channel | FREQ. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|----------------|-------------------|---------------------|---------------|
| 0 | 2402 | -17.72 | 8 | PASS |
| 19 | 2440 | -18.36 | 8 | PASS |
| 39 | 2480 | -18.33 | 8 | PASS |



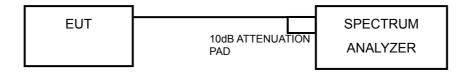


4.5 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.5.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.



4.5.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

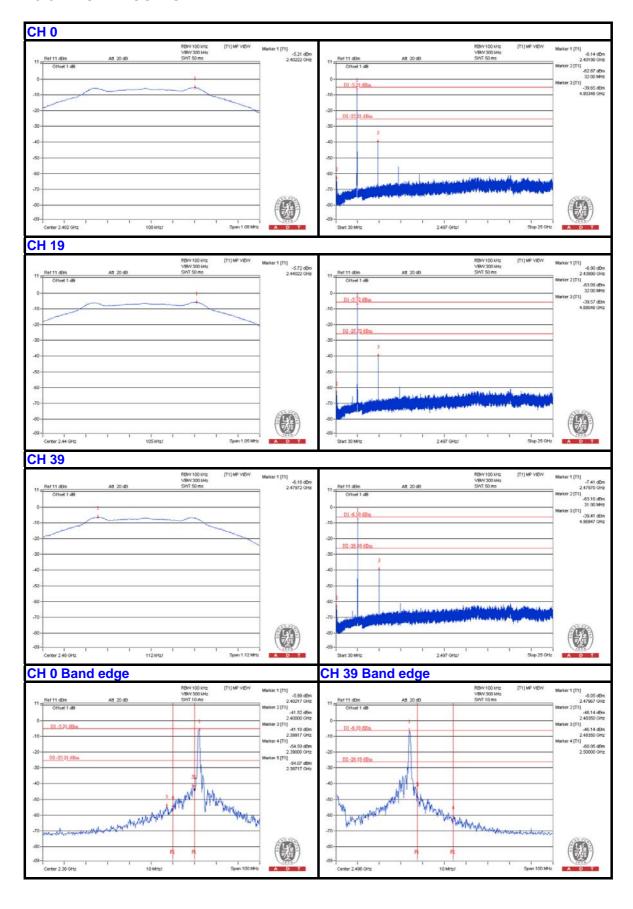
Same as Item 4.3.6

4.5.7 TEST RESULTS

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



4.5.8 TEST RESULTS





| 5. PHOTOGRAPHS OF THE TEST CONFIGURATION |
|---|
| Please refer to the attached file (Test Setup Photo). |
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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.

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

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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



7. APPENDIX A – MODIFICATION RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---