

Global United Technology Services Co., Ltd.

Report No.: GTSE12120148601

FCC REPORT

Applicant: Thermor Ltd.

16975 Leslie St., Newmarket, ON, L3Y 9A1, Canada Address of Applicant:

Equipment Under Test (EUT)

Product Name: Outdoor temperature and humidity sensor

Model No.: 348NC, 348BC, 348BU, 348NU

FCC ID: VX5-348TX

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.231:2011

Date of sample receipt: December 13, 2012

Date of Test: December 13-19, 2012

Date of report issue: December 20, 2012

Test Result: PASS *

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in

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2 Version

| Version No. | Date | Description |
|-------------|-------------------|-------------|
| 00 | December 20, 2012 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared by: | Sam. Gao | Date: | December 20, 2012 |
|--------------|------------------|-------|-------------------|
| | Project Engineer | | |
| Reviewed by: | Hans. Hu | Date: | December 20, 2012 |
| | Reviewer | | |



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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|--|-------------------|--------|
| Antenna requirement | 15.203 | Pass |
| Field strength of the fundamental signal | 15.231 (e) | Pass |
| Spurious emissions | 15.231 (e)/15.209 | Pass |
| 20dB Bandwidth | 15.231 (c) | Pass |
| Dwell time | 15.231 (e) | Pass |
| Silent Period | 15.231 (e) | Pass |

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

| Applicant: | Thermor Ltd. |
|-----------------------|--|
| Address of Applicant: | 16975 Leslie St., Newmarket, ON, L3Y 9A1, Canada |

5.2 General Description of EUT

| Product Name: | Outdoor temperature and humidity sensor |
|----------------------|---|
| Model No.: | 348NC, 348BC, 348BU, 348NU |
| Operation Frequency: | 433.92MHz |
| Modulation type: | ASK |
| Antenna Type: | integral antenna |
| Antenna gain: | 2dBi |
| Power supply: | DC 3.0V (2x1.5 "AAA" Size Batteries) |

5.3 Test mode

| Transmitting mode: | Keep the EUT in transmitting mode. |
|--------------------|------------------------------------|
|--------------------|------------------------------------|

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

| Axis | X | Y | Z | |
|------------------------|-------|-------|-------|--|
| Field Strength(dBuV/m) | 73.15 | 74.39 | 73.84 | |

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

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5.4 Description of Support Units

None.

5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. to ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

• Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

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6 Test Instruments list

| Radiated Emission: | | | | | | | | | |
|--------------------|------------------------------|--------------------------------------|-----------------------|------------------|------------------------|----------------------------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | Mar. 30 2011 | Mar. 29 2013 | | | |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A | | | |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | Dec. 6, 2012 | Dec. 5, 2013 | | | |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | Mar. 10 2012 | Mar. 09 2013 | | | |
| | | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | Mar. 10 2012 | Mar. 09 2013 | | | |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 10 2012 | Mar. 09 2013 | | | |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | | |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 11 | Coaxial cable | GTS | N/A | GTS210 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | Jul. 03 2012 | Jul. 02 2013 | | | |
| 15 | Amplifier (18-26GHz) | Amplifier (18-26GHz) Rohde & Schwarz | | GTS218 | June 29 2012 | June 28 2013 | | | |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 31 2012 | Mar. 30 2013 | | | |
| 17 | D.C. Power Supply | Instek | PS-3030 | GTS232 | Mar. 31 2012 | Mar. 30 2013 | | | |
| 18 | Thermo meter | KTJ | TA328 | GTS256 | Jul. 06 2012 | Jul. 05 2013 | | | |

| Gene | General used equipment: | | | | | | | | |
|---|-------------------------|-----------|------|--------|--------------|--------------|--|--|--|
| Item Test Equipment Manufacturer Model No. Inventory No. Cal.Date (dd-mm-yy) Cal.Due (dd-mm-yy) | | | | | | | | | |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | July 10 2012 | July 09 2013 | | | |

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7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The EUT make use of an integral antenna, The antenna gain is 2dBi.



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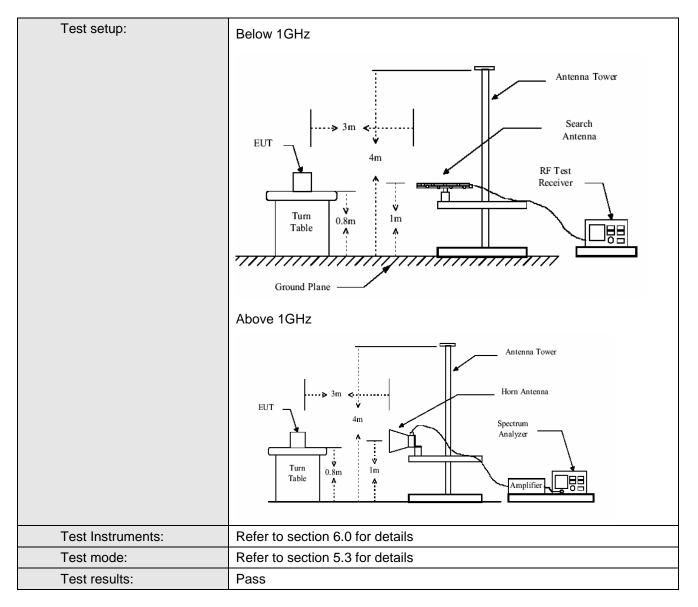


7.2 Radiated Emission

| | ited Ellission | | | | | | | |
|----------|----------------|--|------------------|--------------|---------|-----------------------------------|--|--|
| Test Re | equirement: | FCC Part15 C Section 15.231(e) and 15.209 | | | | | | |
| Test Mo | ethod: | ANSI C63.4:2003 | | | | | | |
| Test Fr | equency Range: | 30MHz to 5000MHz | | | | | | |
| Test sit | e: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | |
| Receive | er setup: | | | | | | | |
| | | Frequency | Detector | RBW | VBW | Remark | | |
| | | 30MHz-1GHz | Quasi-peal | | 300KHz | Quasi-peak Value | | |
| | | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | |
| Limit: | | Fraguer | C) / | Limit (dBuV/ | (m @2m) | Remark | | |
| | trength of the | Frequen | | 72.8 | | Average Value | | |
| fundam | nental signal) | 433.92 N | lHz - | 928 | | Peak Value | | |
| Limite | | <u> </u> | | 020 | | 1 oak valao | | |
| Limit: | | Frequen | CV | Limit (dBuV/ | /m @3m) | Remark | | |
| (Spurio | us Emissions) | 30MHz-88 | | 40.0 | | Quasi-peak Value | | |
| | | 88MHz-216 | | 43.5 | | Quasi-peak Value | | |
| | | 216MHz-96 | | 46.0 | | Quasi-peak Value | | |
| | | 960MHz-1 | 960MHz-1GHz 54.0 | | | | | |
| | | Above 1GHz 54.0 | | | | Average Value | | |
| | | 74.0 Peak Value | | | | | | |
| | | maximum per | mitted funda | | | is 20 dB below the imit permits a | | |
| Test Pr | ocedure: | maximum permitted fundamental level whichever limit permits a higher field strength. a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data | | | | | | |

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Measurement Data



7.2.1 Field Strength Of The Fundamental Signal

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 433.92 | 73.20 | 17.54 | 3.02 | 31.77 | 61.99 | 92.87 | -30.88 | Horizontal |
| 433.92 | 85.60 | 17.54 | 3.02 | 31.77 | 74.39 | 92.87 | -18.48 | Vertical |

Average value:

| Frequency (MHz) | Peak Value (dBuV/m) | Duty cycle factor | Average value (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|------------------------|-------------------|------------------------|------------------------|-----------------|--------------|
| 433.92 | 61.99 | -16.51 | 45.48 | 72.87 | -27.39 | Horizontal |
| 433.92 | 74.39 | -16.51 | 57.88 | 72.87 | -14.99 | Vertical |

Average value=Peak Value + Duty cycle factor

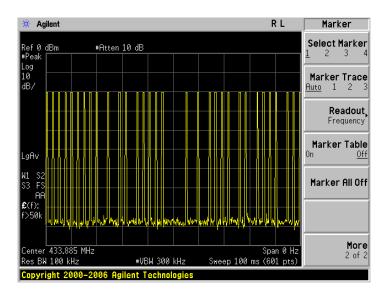
| Duty cycle factor | Duty cycle factor | | | | | |
|--------------------|--------------------------------------|--|--|--|--|--|
| Calculate Formula: | Duty cycle factor=20 log(Duty cycle) | | | | | |
| Calculate Formula. | Duty cycle= T on time / T period | | | | | |
| | Ton time =32*0.467ms=14.944ms | | | | | |
| Test data: | T period =100ms | | | | | |
| resi dala. | Duty cycle= 14.94% | | | | | |
| | duty cycle factor= -16.51 | | | | | |

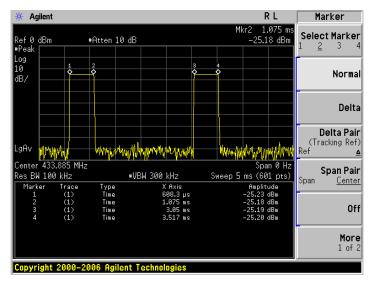
Test plot as follows:

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T on time slot:







7.2.2 Spurious Emissions

■ Below 1GHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 47.33 | 41.42 | 16.52 | 0.74 | 31.98 | 26.70 | 40.00 | -13.30 | Vertical |
| 96.10 | 40.78 | 15.99 | 1.16 | 31.75 | 26.18 | 43.50 | -17.32 | Vertical |
| 185.79 | 39.71 | 13.30 | 1.77 | 32.10 | 22.68 | 43.50 | -20.82 | Vertical |
| 301.42 | 40.82 | 16.11 | 2.37 | 32.17 | 27.13 | 46.00 | -18.87 | Vertical |
| 420.58 | 41.52 | 17.45 | 2.95 | 31.81 | 30.11 | 46.00 | -15.89 | Vertical |
| 670.49 | 40.63 | 21.42 | 3.98 | 31.15 | 34.88 | 46.00 | -11.12 | Vertical |
| 52.95 | 40.44 | 16.20 | 0.80 | 31.95 | 25.49 | 40.00 | -14.51 | Horizontal |
| 107.13 | 39.25 | 15.05 | 1.25 | 31.80 | 23.75 | 43.50 | -19.75 | Horizontal |
| 265.68 | 40.38 | 15.30 | 2.20 | 32.17 | 25.71 | 46.00 | -20.29 | Horizontal |
| 672.85 | 41.60 | 21.46 | 3.99 | 31.15 | 35.90 | 46.00 | -10.10 | Horizontal |
| 511.84 | 43.14 | 18.89 | 3.36 | 31.49 | 33.90 | 46.00 | -12.10 | Horizontal |
| 378.58 | 42.90 | 16.59 | 2.76 | 31.95 | 30.30 | 46.00 | -15.70 | Horizontal |

■ Above 1GHz

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 1301.76 | 23.02 | 25.63 | 4.54 | 20.22 | 32.97 | 74.00 | -41.03 | Vertical |
| 1735.68 | 38.92 | 25.04 | 4.82 | 27.60 | 41.18 | 74.00 | -32.82 | Vertical |
| 2169.60 | 42.77 | 27.67 | 5.15 | 30.72 | 44.87 | 74.00 | -29.13 | Vertical |
| 2603.52 | 31.02 | 27.80 | 5.58 | 30.54 | 33.86 | 74.00 | -40.14 | Vertical |
| 3037.44 | 45.20 | 28.56 | 6.00 | 29.79 | 49.97 | 74.00 | -24.03 | Vertical |
| 3471.36 | 43.92 | 28.87 | 6.89 | 28.15 | 51.53 | 74.00 | -22.47 | Vertical |
| 1301.76 | 23.02 | 25.63 | 4.54 | 20.22 | 32.97 | 74.00 | -41.03 | Vertical |
| 1735.68 | 38.92 | 25.04 | 4.82 | 27.60 | 41.18 | 74.00 | -32.82 | Vertical |
| 1301.76 | 33.07 | 25.63 | 4.54 | 20.22 | 43.02 | 74.00 | -30.98 | Horizontal |
| 1735.68 | 38.46 | 25.04 | 4.82 | 27.60 | 40.72 | 74.00 | -33.28 | Horizontal |
| 2169.60 | 42.33 | 27.67 | 5.15 | 30.72 | 44.43 | 74.00 | -29.57 | Horizontal |
| 2603.52 | 41.43 | 27.80 | 5.58 | 30.54 | 44.27 | 74.00 | -29.73 | Horizontal |
| 3037.44 | 45.04 | 28.56 | 6.00 | 29.79 | 49.81 | 74.00 | -24.19 | Horizontal |
| 3471.36 | 42.80 | 28.87 | 6.89 | 28.15 | 50.41 | 74.00 | -23.59 | Horizontal |
| 1301.76 | 33.07 | 25.63 | 4.54 | 20.22 | 43.02 | 74.00 | -30.98 | Horizontal |
| 1735.68 | 38.46 | 25.04 | 4.82 | 27.60 | 40.72 | 74.00 | -33.28 | Horizontal |

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Average value:

| Frequency (MHz) | Level (dBuV/m) | Duty cycle factor | Average value (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------|-------------------|---------------------------|------------------------|--------------------|--------------|
| 1301.76 | 32.97 | -16.51 | 16.46 | 54.00 | -37.54 | Vertical |
| 1735.68 | 41.18 | -16.51 | 24.67 | 54.00 | -29.33 | Vertical |
| 2169.60 | 44.87 | -16.51 | 28.36 | 54.00 | -25.64 | Vertical |
| 2603.52 | 33.86 | -16.51 | 17.35 | 54.00 | -36.65 | Vertical |
| 3037.44 | 49.97 | -16.51 | 33.46 | 54.00 | -20.54 | Vertical |
| 3471.36 | 51.53 | -16.51 | 35.02 | 54.00 | -18.98 | Vertical |
| 1301.76 | 32.97 | -16.51 | 16.46 | 54.00 | -37.54 | Vertical |
| 1735.68 | 41.18 | -16.51 | 24.67 | 54.00 | -29.33 | Vertical |
| 1301.76 | 43.02 | -16.51 | 26.51 | 54.00 | -27.49 | Horizontal |
| 1735.68 | 40.72 | -16.51 | 24.21 | 54.00 | -29.79 | Horizontal |
| 2169.60 | 44.43 | -16.51 | 27.92 | 54.00 | -26.08 | Horizontal |
| 2603.52 | 44.27 | -16.51 | 27.76 | 54.00 | -26.24 | Horizontal |
| 3037.44 | 49.81 | -16.51 | 33.30 | 54.00 | -20.70 | Horizontal |
| 3471.36 | 50.41 | -16.51 | 33.90 | 54.00 | -20.10 | Horizontal |
| 1301.76 | 43.02 | -16.51 | 26.51 | 54.00 | -27.49 | Horizontal |
| 1735.68 | 40.72 | -16.51 | 24.21 | 54.00 | -29.79 | Horizontal |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. Average value=Peak value + Duty cycle factor

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7.3 20dB Bandwidth

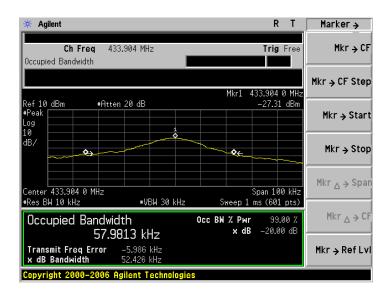
| Test Requirement: | FCC Part15 C Section 15.231 (c) | | | | |
|-------------------|--|--|--|--|--|
| Test Method: | ANSI C63.4:2003 | | | | |
| Limit: | The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier. | | | | |
| Test setup: | Spectrum Analyzer Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Pass | | | | |

Measurement Data

| Test Frequency (MHz) | 20dB bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|----------------------|-------------|--------|
| 433.92 | 0.052426 | 1.0848MHz | Pass |

Note: Limit= Fundamental frequency×0.25%=433.92×0.25%=1.0848MHz

Test plot as follows:



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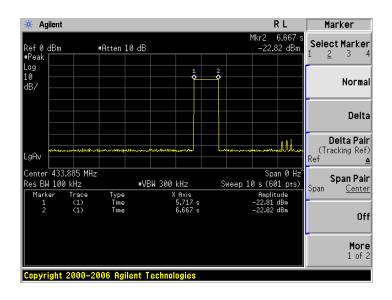
7.4 Dwell time

| Test Requirement: | FCC Part15 C Section 15.231 (e) | | |
|-------------------|---|--|--|
| Test Method: | ANSI C63.4:2003 | | |
| Receiver setup: | RBW=100KHz, VBW=300KHz, span=0Hz, detector: Peak | | |
| Limit: | Not more than 5 seconds | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | |
| Test Instruments: | Refer to section 6.0 for details | | |
| Test mode: | Refer to section 5.3 for details | | |
| Test results: | Pass | | |

Measurement data:

| Dwell time (second) | Limit (second) | Result |
|---------------------|----------------|--------|
| 0.95 | <1.0 | Pass |

Test plot as follows:



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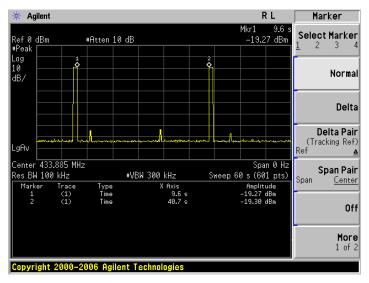
7.5 Silent period

| Test Requirement: | FCC Part15 C Section 15.231 (e) | | | | |
|-------------------|--|--|--|--|--|
| Test Method: | ANSI C63.4:2003 | | | | |
| Receiver setup: | RBW=100KHz, VBW=300KHz, span=0Hz, detector: Peak | | | | |
| Limit: | at least 30 times the duration of the transmission and more than 10 seconds | | | | |
| Test Procedure: | According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Single scan the transmit, and read the transmission time. | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Pass | | | | |

Measurement data:

| Silent period (second) | Limit (second) | Result |
|------------------------|-----------------|--------|
| 31.00 | >10 and 30*0.95 | Pass |

Test plot as follows:



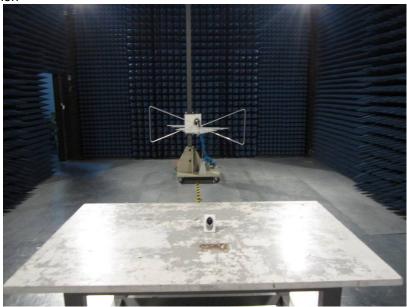
Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

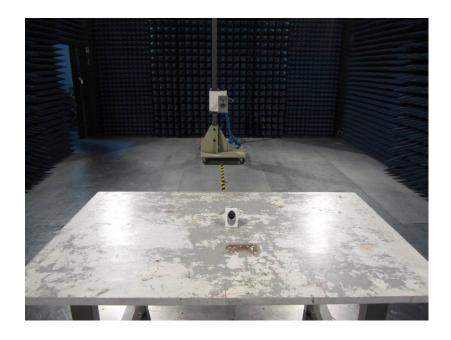
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8 Test Setup Photo

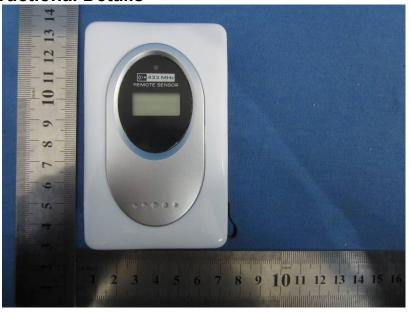
Radiated Emission







9 EUT Constructional Details





















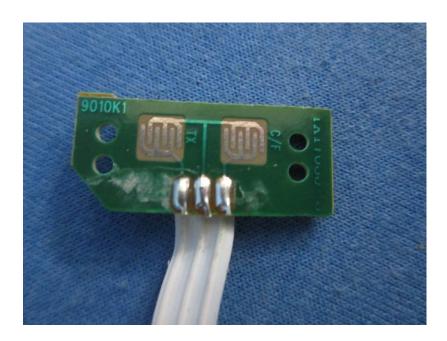


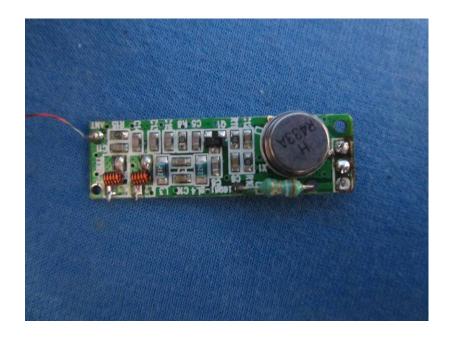
















-----End-----