

RADIO TEST REPORT FCC ID: 2AAHFBCS2-T IC: 11224A-BCS2T

Product: Exmobaby sensor

Trade Name: N/A

Model Name: BCS2

Serial Model: N/A

Report No.: F-D201306002

Prepared for

Exmovere Wireless, LLC

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TEST RESULT CERTIFICATION

| Applicant's name: Address | Suite 200,2121 Eisenhower Ave, Alexandria, Virginia 22314, | | | | |
|----------------------------------|---|--|--|--|--|
| | United States | | | | |
| | Shenzhen Growwin Technology Co., Ltd | | | | |
| Address: | | | | | |
| Product description | | | | | |
| Product name: | Exmobaby sensor | | | | |
| Model and/or type reference : | SCS2 | | | | |
| Serial Model: | N/A | | | | |
| Rating(s): | DC 3.7V | | | | |
| Standards: | FCC Part15.231, RSS-210 Issue 8 Annex 1 | | | | |
| Test procedure | ANSI C63.4-2003, RSS-Gen Issue 3 | | | | |
| | s been tested by NTEK, and the test results show that the compliance with the FCC requirements. And it is applicable only the report. | | | | |
| | ced except in full, without the written approval of NTEK, this ised by NTEK, personal only, and shall be noted in the revision of: | | | | |
| Date (s) of performance of tests | : 10 June 2013 ~19 June 2013 | | | | |
| Date of Issue | : 20 June 2013 | | | | |
| Test Result | : Pass | | | | |
| | ADDIO HUANG | | | | |
| Testing Engine | er : Apple Huang | | | | |
| | (Apple Huang) | | | | |
| Technical Man | ager: Tom Thong | | | | |
| Toolii ilgal | (Tom Zhang) | | | | |
| | () | | | | |
| Authorized Sig | natory: Rovey Young | | | | |
| | (Bovey Yang) | | | | |



| Table of Contents | Page |
|--|----------|
| 1 . SUMMARY OF TEST RESULTS 1.1 TEST FACILITY | 5 6 |
| 1.2 MEASUREMENT UNCERTAINTY | 6 |
| 2. GENERAL INFORMATION | 7 |
| 2.1 GENERAL DESCRIPTION OF EUT | 7 |
| 2.2 DESCRIPTION OF TEST MODES 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 8 9 |
| 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE) | 10 |
| 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS | 11 |
| 3 . ANTENNA REQUIREMENT | 12 |
| 3.1 STANDARD REQUIREMENT | 12 |
| 3.2 EUT ANTENNA | 12 |
| 3.3 CONDUCTED EMISSION MEASUREMENT | 13 |
| 3.3.1 POWER LINE CONDUCTED EMISSION LIMITS 3.3.2 TEST PROCEDURE | 13 14 |
| 3.3.3 DEVIATION FROM TEST STANDARD | 14 |
| 3.3.4 TEST SETUP 3.2.5 TEST RESULT | 14 15 |
| 3.4 RADIATED EMISSION MEASUREMENT | 16 |
| 3.4.1 RADIATED EMISSION LIMITS | 16 |
| 3.4.2 TEST PROCEDURE 3.4.3 DEVIATION FROM TEST STANDARD | 17 17 |
| 3.4.4 TEST SETUP | 18 |
| 3.4.5 TEST RESULTS (BELOW 30MHZ) 3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ) | 20 21 |
| 4 . BANDWIDTH TEST | 23 |
| 4.1 TEST PROCEDURE | 23 |
| 4.2 DEVIATION FROM STANDARD 4.3 TEST SETUP | 23 23 |
| 4.4 TEST RESULTS | 24 |
| 5 . PEAK OUTPUT POWER TEST | 25 |
| 5.1 TEST PROCEDURE | 25 25 |
| 5.2 DEVIATION FROM STANDARD 5.3 TEST SETUP | 25 25 |
| 5.4 EUT OPERATION CONDITIONS | 25 |
| 5.5 TEST RESULTS | 25 |

APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS



 Table of Contents
 Page

 6 . TRANSMITTER TIMEOUT
 26

 6.1 LIMIT
 26

 6.2 TEST PROCEDURE
 26

 6.3 TEST SETUP
 26

 6.4 TEST RESULTS
 27

 7 . EUT TEST PHOTO
 29

Report No.: F-D201306002



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15, Subpart C (15.231) and RSS-210 Issue 8 Annex 1 | | | | |
|--|-----------------------------------|--------|---------|--|
| Standard Section | Judgment | Remark | | |
| 15.207 | 15.207 Conducted Emission | | Note(1) | |
| 15.203 Antenna Requirement | | Pass | | |
| 15.231 | 15.231 Radiated Spurious Emission | | | |
| 15.231 Occupied Bandwidth | | Pass | | |
| 15.231 | Deactivation Time | Pass | | |

| NI | \cap | т | ᆮ | |
|----|--------|---|---|--|
| ıν | v | | ᆫ | |

(1) " N/A" denotes test is not applicable in this Test Report.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately 95 % •

| No. | Item | Uncertainty |
|-----|------------------------------|-------------|
| 1 | Conducted Emission Test | ±1.38dB |
| 2 | RF power,conducted | ±0.16dB |
| 3 | Spurious emissions,conducted | ±0.21dB |
| 4 | All emissions,radiated(<1G) | ±4.68dB |
| 5 | All emissions,radiated(>1G) | ±4.89dB |
| 6 | Temperature | ±0.5°C |
| 7 | Humidity | ±2% |



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | Exmobaby sensor | | | |
|---------------------|---|-------------------------------------|--|--|
| Trade Name | N/A | | | |
| Model Name | BCS2 | | | |
| Serial Model | N/A | | | |
| Model Difference | N/A | | | |
| | The EUT is a Exmobab | y sensor | | |
| | Product Type | Low Power Communication | | |
| | | Device Transmitter | | |
| | Operation Frequency: | 433.92MHz | | |
| | Modulation Type: | ASK | | |
| | Number Of Channel 1CH. | | | |
| Product Description | Antenna Designation: Wire Spiral antenna | | | |
| | Antenna Gain(Peak) | 0.16 dBi | | |
| | Output Power: | 69.86 dBuV/m (AV Max.) | | |
| | More details of EUT ted to the User's Manual. | chnical specification, please refer | | |
| Channel List | N/A | | | |
| Adapter | N/A | | | |
| Battery | DC 3.7V | | | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2

Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|-----|-------|------------|----------------|-----------|------------|---------|
| 1 | N/A | N/A | Spiral Antenna | N/A | 0.16 | Antenna |



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1 | TX |

| For Conducted Emission | | |
|------------------------|-------------|--|
| Final Test Mode | Description | |
| Mode 1 | N/A | |

| For Radiated Emission | | | |
|-----------------------------|----|--|--|
| Final Test Mode Description | | | |
| Mode 1 | TX | | |

Note:

(1) The EUT use new battery.





Page 9 of 29 Report No.: F-D201306002

| ~ ~ | DI COLL DIODAM | OLIOVAUNIO THE | CONTRIBUTION | OF OVOTER TEATER |
|-----|----------------|----------------|---------------|------------------|
| 2.3 | BLOCK DIGRAM | SHOWING THE | CONFIGURATION | OF SYSTEM TESTED |

Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------------|-----------|----------------|------------|------|
| E-1 | Exmobaby sensor | N/A | BCS2 | N/A | EUT |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|--------------------|--------------|-------------|------------|------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | 160400005 | Jul. 06. 2013 |
| 2 | Test Receiver | R&S | ESPI | 101318 | Jul. 06. 2013 |
| 3 | Bilog Antenna | TESEQ | CBL6111D | 31216 | Jul. 06. 2013 |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | Jul. 06. 2013 |
| 5 | Spectrum Analyzer | ADVANTEST | R3132 | 150900201 | Jul. 06. 2013 |
| 6 | Horn Antenna | EM | EM-AH-10180 | 2011071402 | Jul. 06. 2013 |
| 7 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | Jul. 06. 2013 |
| 8 | Amplifier | EM | EM-30180 | 060538 | Jul. 06. 2013 |
| 9 | Loop Antenna | ARA | PLA-1030/B | 1029 | Jul. 06. 2013 |
| 10 | Power Meter | R&S | NRVS | 100696 | Jul. 06. 2013 |

Conduction Test equipment

| | on and the control of | | | | | | | |
|------|--|--------------|----------|------------|------------------|--|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | | |
| 1 | Test Receiver | R&S | ESCI | 101160 | Jul. 06. 2013 | | | |
| 2 | LISN | R&S | ENV216 | 101313 | Jul. 06. 2013 | | | |
| 3 | LISN | EMCO | 3816/2 | 00042990 | Jul. 06. 2013 | | | |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | Jul. 06. 2013 | | | |
| 5 | Passive Voltage Probe | R&S | ESH2-Z3 | 100196 | Jul. 06. 2013 | | | |
| 6 | Absorbing clamp | R&S | MOS-21 | 100423 | Jul. 06. 2013 | | | |



3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

3.2 EUT ANTENNA

| | The | EUT | antenna | is W | √ire S | Spiral Antenna. | lt | comp | oly wit | h the | standard | rec | uirement |
|--|-----|------------|---------|------|--------|-----------------|----|------|---------|-------|----------|-----|----------|
|--|-----|------------|---------|------|--------|-----------------|----|------|---------|-------|----------|-----|----------|



3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | | Standard |
|-------------------|----------------|---------|----------------|-----------|----------|
| FREQUENCT (IVITZ) | Quasi-peak | Average | Quasi-peak | Average | Standard |
| 0.15 -0.5 | | | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50 -5.0 | | | 56.00 | 46.00 | CISPR |
| 5.0 -30.0 | | | 60.00 | 50.00 | CISPR |

| 0.15 -0.5 | | 66 - 56 * | 56 - 46 * | LP002. |
|-----------|--|-----------|-----------|--------|
| 0.50 -5.0 | | 56.00 | 46.00 | LP002. |
| 5.0 -30.0 | | 60.00 | 50.00 | LP002. |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |



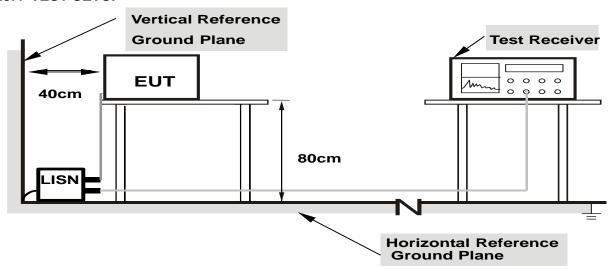
3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes





3.2.5 TEST RESULT

| EUT: | Exmobaby sensor | Model Name. : | BCS2 |
|----------------|-----------------|--------------------|------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | N/A | Test Mode: | N/A |

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3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

| Frequencies (MHz) | Field Strength (micorvolts/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 tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231.e)

| | · · · · · · · · · · · · · · · · · · · | <u> </u> |
|--------------------------------|--|---|
| Fundamental Frequency (MHz) | Field Strength of fundamental (microvolts/meter) | Field Strength of Unwanted Emissions (microvolts/meter) |
| 40.66 - 40.70 | 1,000 | 100 |
| 70 - 130 | 500 | 50 |
| 130 - 174 | 500 to 1,500 ** | 50 to 1,50 ** |
| 174 - 260 | 1,500 | 1,50 |
| 260 - 470 | 1,500 to 5,000 ** | 1,50 to 5,00 ** |
| Above 470 | 5,000 | 5,00 |

Notes:

(1) ** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental

field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 22.72727(F) - 2454.545;

for the band 260-470 MHz, uV/m at 3 meters = 16.6667(F) - 2833.3333. The maximum permitted

unwanted emission level is 20 dB below the maximum permitted fundamental level.] The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 93 Section 15.209, whichever limit permits a higher field strength.



| Spectrum Parameter | Setting |
|---------------------------------------|-----------------------|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

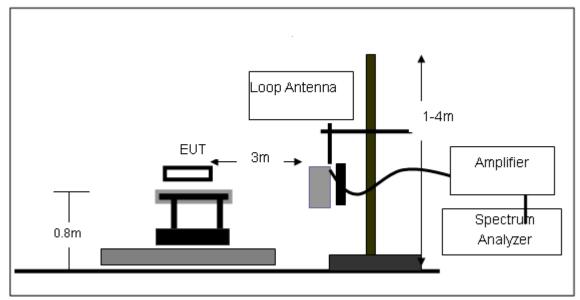
3.4.3 DEVIATION FROM TEST STANDARD

No deviation

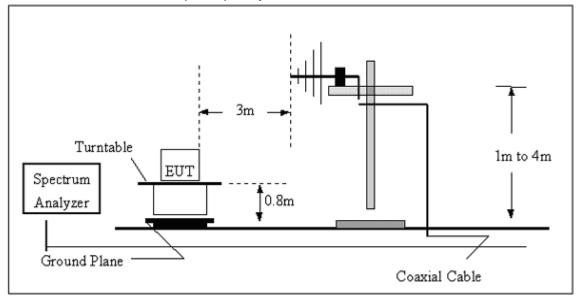


3.4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

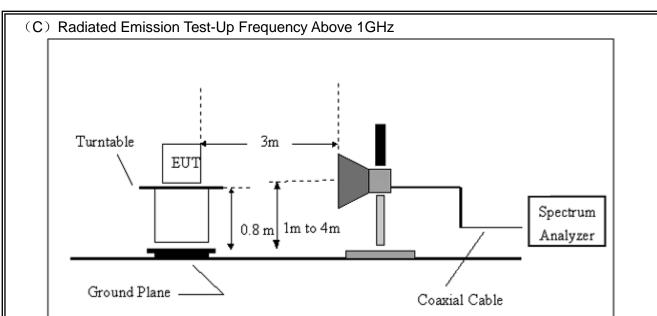


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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3.4.5 TEST RESULTS (BELOW 30MHz)

| EUT: | Exmobaby sensor | Model Name. : | BCS2 |
|--------------|-----------------|---------------------|---------|
| Temperature: | 20 ℃ | Relative Humidtity: | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | TX | Polarization : | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| | | | | PASS |
| | | | | PASS |

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



Page 21 of 29 Report No.: F-D201306002

3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

The duty cycle is simply the on time divided by the period:

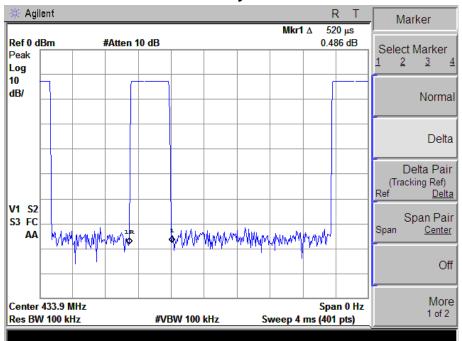
The duration of one cycle = 100 ms

Effective period of the cycle = 0.52×49 ms= 25.48ms

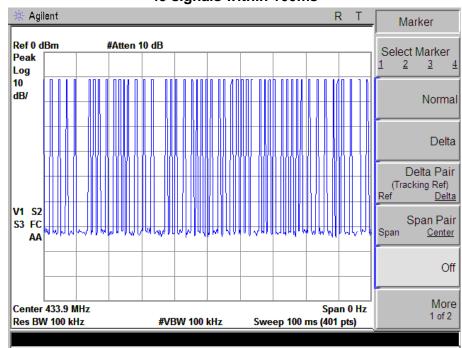
DC = 25.48 ms/100 ms = 0.2548

Therefore, the average factor is found by 20log0.2548 = -11.88dB

One cycle



49 signals within 100ms





EUT : Exmobaby sensor Model Name : BCS2

Temperature : 20 °C Relative Humidity : 48%

Pressure : 1010 hPa Test Voltage : DC 3.7V

Test Mode : TX Polarization : Horizontal

| Frequency | Average Factor | Field Strength | Field Strength | Limit(PK) | Limit(AV) | State |
|-----------|-------------------|-------------------|-------------------|-----------|-----------|-------|
| MHz | dB | dBuV/m (PK) | dBuV/m (AV) | dBuV/m | dBuV/m | State |
| 433.9200 | -11.88 | 81.74 | 69.86 | 92.9 | 72.9 | pass |
| 867.8385 | -11.88 | 62.49 | 50.61 | 72.9 | 52.9 | pass |
| 1301.7694 | -11.88 | 48.86 | 36.98 | 72.9 | 52.9 | pass |
| | | | | 74.00 | 54.00 | pass |
| | | | | 74.00 | 54.00 | pass |
| | | | | 74.00 | 54.00 | pass |

| EUT: | Exmobaby sensor | Model Name : | BCS2 |
|--------------|-----------------|--------------------|----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Pressure: | 1010 hPa | Test Voltage : | DC 3.7V |
| Test Mode : | TX | Polarization : | Vertical |

| Frequency | Average Factor | Field Strength | Field Strength | Limit(PK) | Limit(AV) | State |
|-----------|-------------------|-------------------|-------------------|-----------|-----------|-------|
| MHz | dB | dBuV/m (PK) | dBuV/m (AV) | dBuV/m | dBuV/m | State |
| 433.9200 | -11.88 | 77.68 | 65.80 | 92.9 | 72.9 | pass |
| 867.8387 | -11.88 | 55.69 | 46.16 | 72.9 | 52.9 | pass |
| 1301.7692 | -11.88 | 43.78 | 31.90 | 72.9 | 52.9 | pass |
| | | | | 74.00 | 54.00 | pass |
| | | | | 74.00 | 54.00 | pass |
| | | | | 74.00 | 54.00 | pass |

NOTE:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. *: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.



Page 23 of 29 Report No.: F-D201306002

4. BANDWIDTH TEST

4.1 TEST PROCEDURE

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.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

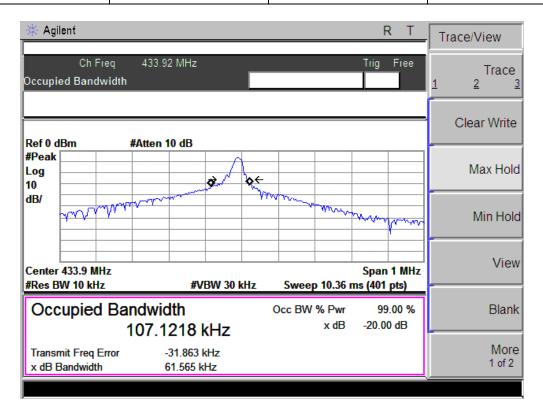
| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |



4.4 TEST RESULTS

| EUT: | Exmobaby sensor | Model Name : | BCS2 |
|---------------|-----------------|--------------------|---------|
| Temperature : | 26 ℃ | Relative Humidity: | 53% |
| Pressure: | 1020 hPa | Test Power : | DC 3.7V |
| Test Mode : | TX CH 1 | | |

| Test Channel | Frequency (MHz) | 20 dBc Bandwidth (kHz) | Limit (MHz) |
|--------------|--------------------|---------------------------|----------------|
| CH01 | 433.92 | 61.565 | 1.0848MHz |





5. PEAK OUTPUT POWER TEST

5.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting: RBW= 100KHz, VBW= 100KHz, Sweep time = Auto.

5.2 DEVIATION FROM STANDARD

No deviation.

5.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.5 TEST RESULTS

| EUT: | Exmobaby sensor | Model Name : | BCS2 |
|--------------|-----------------|--------------------|---------|
| Temperature: | 26 ℃ | Relative Humidity: | 53% |
| Pressure : | 1020 hPa | Test Power : | DC 3.7V |
| Test Mode : | TX CH 1 | | |

| Test Channel | Frequency (MHz) | Power(dBm) |
|--------------|--------------------|------------|
| CH01 | 433.92 | 1.474 |



6. TRANSMITTER TIMEOUT

6.1 LIMIT

In addition, devices operated under the provisions of this paragraph shall be provided with a means For automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the but in no case less than 10 seconds.

6.2 TEST PROCEDURE

- (1) Put the EUT on the support in its standard position with associated equipment and switched on.
- (2) Set center frequency of spectrum analyzer = operating frequency.
- (3) Set the spectrum analyzer as RBW=100kHz, VBW=100kHz, Span=0Hz, Adjust Sweep=120s.
- (4) record the duration time

6.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

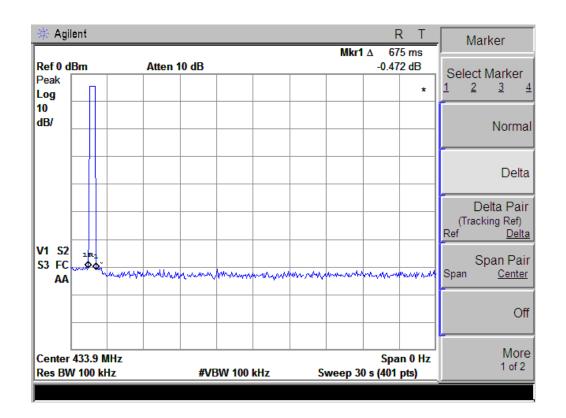
`



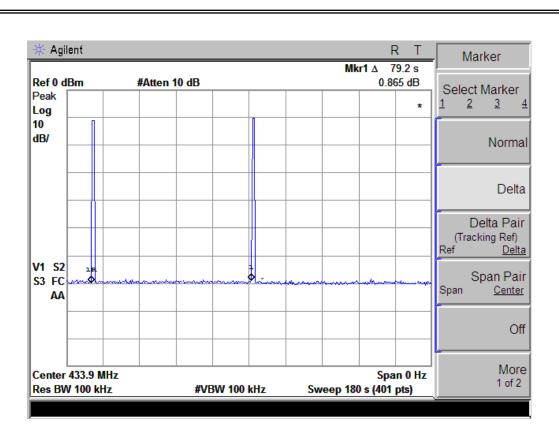
6.4 TEST RESULTS

| EUT: | Exmobaby sensor | Model Name : | BCS2 |
|--------------|-----------------|--------------------|---------|
| Temperature: | 26 ℃ | Relative Humidity: | 53% |
| Pressure: | 1020 hPa | Test Power : | DC 3.7V |
| Test Mode : | TX CH 1 | | |

| Frequency(MHz) | Each transmission time(s) | silent period between transmissions(s) |
|----------------|---------------------------|---|
| 433.92 | 0.675 | 79.2 |
| Limit | <1s | >10s and > 30*(duration of transmission) |
| Result | Pass | |









7. EUT TEST PHOTO





