

Global United Technology Services Co., Ltd.

Report No.: GTSE15060105501

FCC REPORT

Applicant: Atoms Labs LLC

Address of Applicant: 2670 Firewheel Dr. Suite D Flower Mound TX 75028

United States

Equipment Under Test (EUT)

Product Name: Magnetic door / window sensor

Model No.: AHSS11

FCC ID: 2ACMYAHSS11

FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014 **Applicable standards:**

Date of sample receipt: May 28, 2015

Date of Test: May 28- June 24, 2015

Date of report issued: June 24, 2015

Test Result: PASS *

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

Authorized Signature:



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 | June 24, 2015 | Original | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Prepared By: | Zdward.Pan | Date: | June 24, 2015 |
|--------------|------------------|-------------|---------------|
| | Project Engineer | | |
| Check By: | hank. yan | Date: | June 24, 2015 |
| | Reviewer | | |



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Test Summary

| Test Item | Section in CFR 47 | Result |
|--|-----------------------|--------|
| Antenna requirement | 15.203 | Pass |
| AC Power Line Conducted Emission | 15.207 | N/A |
| Field strength of the fundamental signal | 15.249 (a) | Pass |
| Spurious emissions | 15.249 (a) (d)/15.209 | Pass |
| Band edge | 15.249 (d)/15.205 | Pass |
| 20dB Occupied Bandwidth | 15.215 (c) | Pass |

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

Remark: Test according to ANSI C63.4:2009

N/A: Not applicable

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|--------------------------------------|-----------------------------------|-------|
| Radiated Emission | 9kHz ~ 30MHz | ± 4.34dB | (1) |
| Radiated Emission | 30MHz ~ 1000MHz | ± 4.24dB | (1) |
| Radiated Emission | 1GHz ~ 26.5GHz | ± 4.68dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | ± 3.45dB | (1) |
| Note (1): The measurement unce | ertainty is for coverage factor of k | =2 and a level of confidence of 9 | 95%. |



5 General Information

5.1 Client Information

| Applicant: | Atoms Labs LLC |
|-----------------------|--|
| Address of Applicant: | 2670 Firewheel Dr. Suite D Flower Mound TX 75028 United States |

5.2 General Description of EUT

| Product Name: | Magnetic door / window sensor | |
|----------------------|-------------------------------|--|
| Model No.: | AHSS11 | |
| Operation Frequency: | 916.8MHz | |
| Modulation type: | GFSK | |
| Antenna Type: | Integral antenna | |
| Antenna gain: | 2dBi (declare by Applicant) | |
| Power supply: | DC 3V Lithium Battery | |



5.3 Test mode

| Transmitting mode | Keep the EUT in continuously transmitting mode |
|---------------------------------|--|
| Remark: New battery is used dur | ing all test. |

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 | Х | Υ | Z |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 90.88 | 91.81 | 89.56 |

Final Test Mode:

The EUT was tested in GFSK modulation is the worst case.

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

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 fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

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-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

| Rad | 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. 28 2015 | Mar. 27 2016 | |
| 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 | Jul. 01 2014 | Jun 30 2015 | |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | Jul. 01 2014 | Jun 30 2015 | |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | Jul. 01 2014 | Jun 30 2015 | |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 27 2014 | June 26 2015 | |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 27 2015 | Mar. 26 2016 | |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 28 2015 | Mar. 27 2016 | |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 28 2015 | Mar. 27 2016 | |
| 11 | Coaxial cable | GTS | N/A | GTS210 | Mar. 28 2015 | Mar. 27 2016 | |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 28 2015 | Mar. 27 2016 | |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | Jul. 01 2014 | Jun. 30, 2015 | |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | Jul. 01 2014 | Jun. 30, 2015 | |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 27 2014 | June 26 2015 | |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 28 2015 | Mar. 27 2016 | |

| Gen | General used equipment: | | | | | | |
|------|-------------------------|--------------|-----------|------------------|------------------------|----------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | July 08 2014 | July 07 2015 | |



7 Test results and Measurement Data

7.1 Antenna requirement

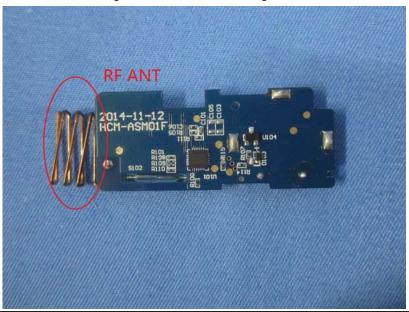
Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 2dBi





7.2 Radiated Emission Method

| 1.2 | 7.2 Radiated Effission Method | | | | | |
|-----|-------------------------------|-----------------------------|-------------------------------|----------------------------------|-------------|---|
| | Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| | Test Method: | ANSI C63.4:2009 | | | | |
| | Test Frequency Range: | 30MHz to 10GHz | | | | |
| | Test site: | Measurement Distance: 3m | | | | |
| | Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | | 30MHz- 1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
| | | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | Above IGHZ | Peak | 1MHz | 10Hz | Average Value |
| | Limit: | Freque | ency | Limit (dBuV | /m @3m) | Remark |
| | (Field strength of the | 902MHz ~ | 928MHz | 94.0 | 0 | Quasi-peak Value |
| | fundamental signal) | | | | | |
| | Limit: | Freque | • | Limit (dBuV | | Remark |
| | (Spurious Emissions) | 30MHz-8 | | 40.0 | | Quasi-peak Value |
| | , | 88MHz-2 | | 43.5 | | Quasi-peak Value |
| | | 216MHz-9 | | 46.0 | | Quasi-peak Value |
| | | 960MHz- | - IGHZ | 54.0 | | Quasi-peak Value Average Value |
| | | Above 1 | IGHz - | 54.00 74.00 | | Peak Value |
| | Limit: (band edge) | harmonics, sha | ll be attenuate to the genera | ed by at least I radiated emi | 50 dB belov | bands, except for w the level of the s in Section 15.209, |
| | Test setup: | EUT | 4m 4m 0.8m 1m | | Sea | na Tower arch enna |



| | Report No.: GTSE15060105501 |
|-------------------|--|
| | Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier |
| Test Procedure: | The EUT was placed on the top of a rotating table 0.8m meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. |
| | 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. |
| | 3. 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. |
| | 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. |
| | The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| | 6. 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, quasi-peak or average method as specified and then reported in a data sheet. |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement data:



7.2.1 Field Strength of The Fundamental Signal

Quasi-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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 916.80 | 92.79 | 23.21 | 4.91 | 29.10 | 91.81 | 94.00 | -2.19 | Vertical |
| 916.80 | 85.20 | 23.21 | 4.91 | 29.10 | 84.22 | 94.00 | -9.78 | Horizontal |

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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 41.13 | 30.12 | 15.57 | 0.67 | 30.04 | 16.32 | 40.00 | -23.68 | Vertical |
| 107.89 | 29.17 | 14.44 | 1.26 | 29.65 | 15.22 | 43.50 | -28.28 | Vertical |
| 221.39 | 28.48 | 13.25 | 1.97 | 29.40 | 14.30 | 46.00 | -31.70 | Vertical |
| 323.32 | 27.88 | 15.46 | 2.49 | 29.87 | 15.96 | 46.00 | -30.04 | Vertical |
| 539.48 | 28.15 | 19.36 | 3.48 | 29.30 | 21.69 | 46.00 | -24.31 | Vertical |
| 815.97 | 35.26 | 22.24 | 4.52 | 29.18 | 32.84 | 46.00 | -13.16 | Vertical |
| 41.57 | 25.95 | 15.57 | 0.68 | 30.04 | 12.16 | 40.00 | -27.84 | Horizontal |
| 99.88 | 25.74 | 15.16 | 1.19 | 29.70 | 12.39 | 43.50 | -31.11 | Horizontal |
| 205.68 | 25.17 | 12.74 | 1.88 | 29.26 | 10.53 | 43.50 | -32.97 | Horizontal |
| 270.38 | 25.36 | 14.38 | 2.22 | 29.80 | 12.16 | 46.00 | -33.84 | Horizontal |
| 366.82 | 26.92 | 16.48 | 2.70 | 29.65 | 16.45 | 46.00 | -29.55 | Horizontal |
| 842.13 | 28.38 | 22.51 | 4.63 | 29.16 | 26.36 | 46.00 | -19.64 | Horizontal |



■ Above 1GHz

Peak value:

| | | | ı | | | | ı | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 1833.60 | 40.39 | 25.45 | 4.88 | 34.17 | 36.55 | 74.00 | -37.45 | Vertical |
| 2750.40 | 43.90 | 28.26 | 5.71 | 33.61 | 44.26 | 74.00 | -29.74 | Vertical |
| 3667.20 | 57.20 | 29.20 | 7.28 | 32.56 | 61.12 | 74.00 | -12.88 | Vertical |
| 4584.00 | 35.39 | 31.49 | 8.41 | 31.98 | 43.31 | 74.00 | -30.69 | Vertical |
| 5500.80 | 34.19 | 31.98 | 9.51 | 32.43 | 43.25 | 74.00 | -30.75 | Vertical |
| 6417.60 | 31.44 | 33.49 | 10.78 | 32.12 | 43.59 | 74.00 | -30.41 | Vertical |
| 7334.40 | 30.25 | 36.41 | 11.72 | 31.88 | 46.50 | 74.00 | -27.50 | Vertical |
| 8251.20 | 29.01 | 36.76 | 12.51 | 31.77 | 46.51 | 74.00 | -27.49 | Vertical |
| 9168.00 | 29.39 | 37.31 | 13.80 | 32.13 | 48.37 | 74.00 | -25.63 | Vertical |
| 1833.60 | 40.65 | 25.45 | 4.88 | 34.17 | 36.81 | 74.00 | -37.19 | Horizontal |
| 2750.40 | 42.89 | 28.26 | 5.71 | 33.61 | 43.25 | 74.00 | -30.75 | Horizontal |
| 3667.20 | 54.86 | 29.20 | 7.28 | 32.56 | 58.78 | 74.00 | -15.22 | Horizontal |
| 4584.00 | 33.68 | 31.49 | 8.41 | 31.98 | 41.60 | 74.00 | -32.40 | Horizontal |
| 5500.80 | 36.27 | 31.98 | 9.51 | 32.43 | 45.33 | 74.00 | -28.67 | Horizontal |
| 6417.60 | 32.12 | 33.49 | 10.78 | 32.12 | 44.27 | 74.00 | -29.73 | Horizontal |
| 7334.40 | 34.31 | 36.41 | 11.72 | 31.88 | 50.56 | 74.00 | -23.44 | Horizontal |
| 8251.00 | 29.63 | 36.76 | 12.51 | 31.77 | 47.13 | 74.00 | -26.87 | Horizontal |
| 9168.00 | 29.61 | 37.31 | 13.80 | 32.13 | 48.59 | 74.00 | -25.41 | Horizontal |



Average value:

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| 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 1833.60 | 30.85 | 25.45 | 4.88 | 34.17 | 27.01 | 54.00 | -26.99 | Vertical |
| 2750.40 | 34.07 | 28.26 | 5.71 | 33.61 | 34.43 | 54.00 | -19.57 | Vertical |
| 3667.20 | 46.99 | 29.20 | 7.28 | 32.56 | 50.91 | 54.00 | -3.09 | Vertical |
| 4584.00 | 25.69 | 31.49 | 8.41 | 31.98 | 33.61 | 54.00 | -20.39 | Vertical |
| 5500.80 | 24.66 | 31.98 | 9.51 | 32.43 | 33.72 | 54.00 | -20.28 | Vertical |
| 6417.60 | 21.88 | 33.49 | 10.78 | 32.12 | 34.03 | 54.00 | -19.97 | Vertical |
| 7334.40 | 20.86 | 36.41 | 11.72 | 31.88 | 37.11 | 54.00 | -16.89 | Vertical |
| 8251.20 | 19.66 | 36.76 | 12.51 | 31.77 | 37.16 | 54.00 | -16.84 | Vertical |
| 9168.00 | 19.49 | 37.31 | 13.80 | 32.13 | 38.47 | 54.00 | -15.53 | Vertical |
| 1833.60 | 30.55 | 25.45 | 4.88 | 34.17 | 26.71 | 54.00 | -27.29 | Horizontal |
| 2750.40 | 33.17 | 28.26 | 5.71 | 33.61 | 33.53 | 54.00 | -20.47 | Horizontal |
| 3667.20 | 45.10 | 29.20 | 7.28 | 32.56 | 49.02 | 54.00 | -4.98 | Horizontal |
| 4584.00 | 23.69 | 31.49 | 8.41 | 31.98 | 31.61 | 54.00 | -22.39 | Horizontal |
| 5500.80 | 26.88 | 31.98 | 9.51 | 32.43 | 35.94 | 54.00 | -18.06 | Horizontal |
| 6417.60 | 22.85 | 33.49 | 10.78 | 32.12 | 35.00 | 54.00 | -19.00 | Horizontal |
| 7334.40 | 24.50 | 36.41 | 11.72 | 31.88 | 40.75 | 54.00 | -13.25 | Horizontal |
| 8251.00 | 19.62 | 36.76 | 12.51 | 31.77 | 37.12 | 54.00 | -16.88 | Horizontal |
| 9168.00 | 19.19 | 37.31 | 13.80 | 32.13 | 38.17 | 54.00 | -15.83 | Horizontal |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

| Test channel: 916.8MHz channel | | | | | | | | |
|--------------------------------|-------------------------|-----------------------------|-----------------------|--------------------------|----------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | QP Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 902.00 | 27.46 | 23.12 | 4.87 | 29.10 | 26.35 | 46.00 | -19.65 | Vertical |
| 928.00 | 26.21 | 23.28 | 4.96 | 29.10 | 25.35 | 46.00 | -20.65 | Vertical |
| 902.00 | 27.35 | 23.12 | 4.87 | 29.10 | 26.24 | 46.00 | -19.76 | Horizontal |
| 928.00 | 25.27 | 23.28 | 4.96 | 29.10 | 24.41 | 46.00 | -21.59 | Horizontal |



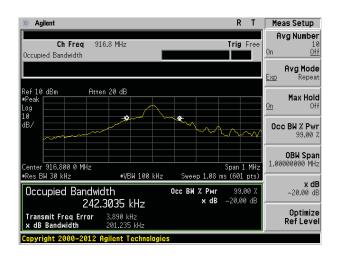
7.3 20dB Occupy Bandwidth

| Test Requirement: | FCC Part15 C Section 15.249/15.215 | | | |
|-------------------|---|--|--|--|
| Test Method: | ANSI C63.4:2009 | | | |
| Limit: | Operation Frequency range 2400MHz~2483.5MHz | | | |
| 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

| 2 | 0dB bandwidth(MHz) | Result |
|---|--------------------|--------|
| | 0.201 | Pass |

Test plot as follows:

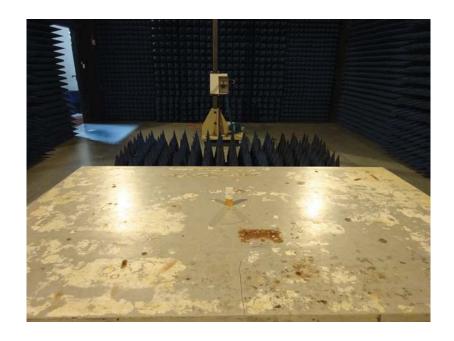




8 Test Setup Photo

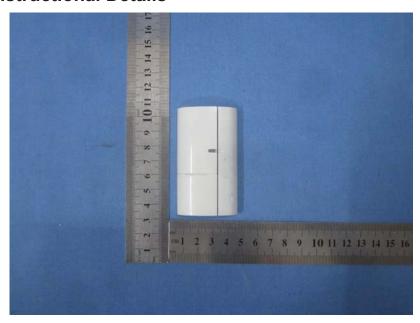
Radiated Emission

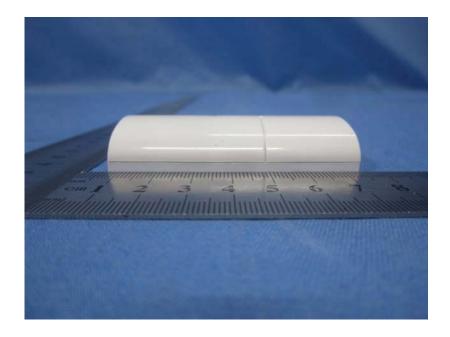




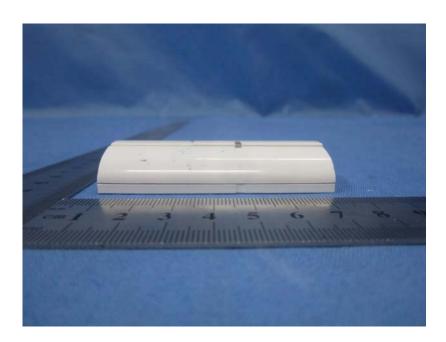


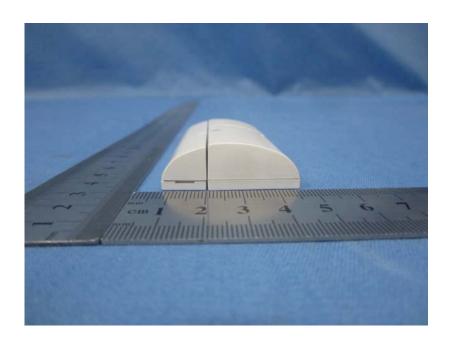
9 EUT Constructional Details



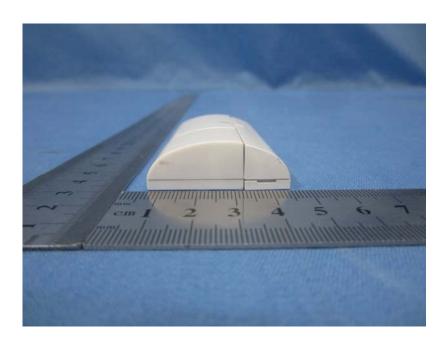


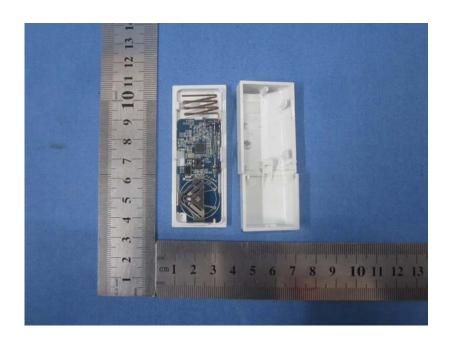




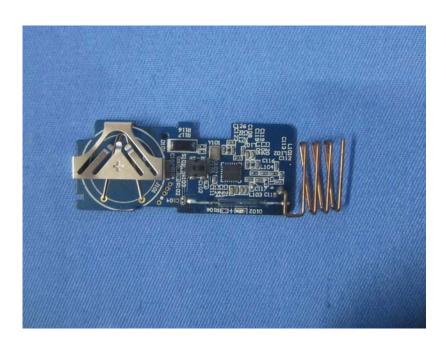


















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