

TEST REPORT

Reference No...... : WTD17S0375269E
FCC ID : W6JTH30
Applicant..... : TIMOTION Technology Co.,Ltd
Address..... : Shiyong Mining Industrial Zone, Hengli Town, Dongguan City
Guangdong Province 523465, China
Manufacturer : The same as above
Address..... : The same as above
Product Name..... : Handset
Model No..... : TH30
Standards : FCC CFR47 Part 15 Section 15.249: 2016
Date of Receipt sample : Mar. 31, 2017
Date of Test : Mar. 31 – Apr. 05, 2017
Date of Issue..... : Apr. 11, 2017
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

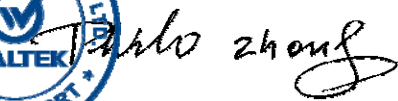
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Compiled by:



Zero Zhou / Test Engineer

Approved by:



Philo Zhong / Manager

2 Contents

| | Page |
|--|-----------|
| 1 COVER PAGE..... | 1 |
| 2 CONTENTS | 2 |
| 3 REVISION HISTORY | 3 |
| 4 GENERAL INFORMATION..... | 4 |
| 4.1 GENERAL DESCRIPTION OF E.U.T..... | 4 |
| 4.2 DETAILS OF E.U.T..... | 4 |
| 4.3 CHANNEL LIST | 4 |
| 4.4 TEST FACILITY | 4 |
| 4.5 TEST MODE | 5 |
| 5 EQUIPMENT USED DURING TEST | 6 |
| 5.1 EQUIPMENTS LIST | 6 |
| 5.2 MEASUREMENT UNCERTAINTY..... | 7 |
| 5.3 TEST EQUIPMENT CALIBRATION..... | 7 |
| 6 TEST SUMMARY | 8 |
| 7 RADIATION EMISSION TEST | 9 |
| 7.1 EUT OPERATION..... | 9 |
| 7.2 TEST SETUP | 10 |
| 7.3 SPECTRUM ANALYZER SETUP..... | 11 |
| 7.4 TEST PROCEDURE..... | 12 |
| 7.5 TEST RESULT | 13 |
| 8 OUTSIDE OF BAND EMISSION..... | 16 |
| 8.1 TEST PROCEDURE..... | 16 |
| 8.2 TEST RESULT | 16 |
| 9 BANDWIDTH MEASUREMENT | 18 |
| 9.1 TEST PROCEDURE..... | 18 |
| 9.2 TEST RESULT | 18 |
| 10 ANTENNA REQUIREMENT | 20 |
| 11 SAR EVALUATION..... | 21 |
| 11.1 REQUIREMENTS..... | 21 |
| 11.2 THE PROCEDURES / LIMIT | 21 |
| 11.3 RESULT: COMPLIANCE | 21 |
| 12 PHOTOGRAPHS- MODEL TH30 TEST SETUP PHOTOS..... | 22 |
| 12.1 PHOTOGRAPH - RADIATION EMISSION | 22 |
| 13 PHOTOGRAPHS - CONSTRUCTIONAL DETAILS..... | 25 |
| 13.1 PHOTOGRAPHS –MODEL TH30 EXTERNAL PHOTOS | 25 |
| 13.2 PHOTOGRAPHS – MODEL TH30 INTERNAL PHOTOS..... | 28 |

3 Revision History

| Test report No. | Date of Receipt sample | Date of Test | Date of Issue | Purpose | Comment | Approved |
|------------------------|-------------------------------|-------------------------|----------------------|----------------|----------------|-----------------|
| WTD17S0375269E | Mar. 31, 2017 | Mar. 31 – Apr. 05, 2017 | Apr. 11, 2017 | original | - | Valid |

4 General Information

4.1 General Description of E.U.T.

| | |
|-----------------------|---------------------------------------|
| Product Name | :Handset |
| Model No. | :TH30 |
| Model Differences | :N/A |
| Type of Modulation | :GFSK |
| Frequency Range | :2420MHz-2480MHz, 3 Channels in total |
| The Lowest Oscillator | :16MHz |
| Antenna installation | :PCB Printed Antenna |

4.2 Details of E.U.T.

| | |
|----------------|--|
| Technical Data | : DC 3V by batteries (2* 1.5V size "AAA") |
|----------------|--|

4.3 Channel List

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 1 | 2420 | 2 | 2450 | 3 | 2480 |

4.4 Test Facility

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

- **IC – Registration No.:7760A-1**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A-1, Oct 15, 2015.

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. 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 our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. 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 our files. Registration 328995, December 3, 2014.

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Table 1 Tests carried out under FCC part 15.249

| Test mode | Low channel | Middle channel | High channel |
|--------------|-------------|----------------|--------------|
| Transmitting | 2420MHz | 2450MHz | 2480MHz |

Table 2 Tests carried out under FCC part 15.209

| Test Item | Test Mode |
|--------------------|--------------|
| Radiated Emissions | Transmitting |

5 Equipment Used during Test

5.1 Equipments List

| Conducted Emissions at Mains Terminals Disturbance Voltage(1#) | | | | | | |
|---|----------------------------|----------------------|------------------|-------------------|------------------------------|-----------------------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1 | EMI Test Receiver | R&S | ESCI | 100947 | Sep.12, 2016 | Sep.11, 2017 |
| 2 | LISN | R&S | ENV216 | 100115 | Sep.12, 2016 | Sep.11, 2017 |
| 3 | Cable | Top | TYPE16(3.5M) | - | Sep.12, 2016 | Sep.11, 2017 |
| Conducted Emissions at Mains Terminals Disturbance Voltage(2#) | | | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1 | EMI Test Receiver | R&S | ESCI | 101155 | Sep.12, 2016 | Sep.11, 2017 |
| 2 | LISN | SCHWARZBECK | NSLK 8128 | 8128-289 | Sep.12, 2016 | Sep.11, 2017 |
| 3 | Limiter | York | MTS-IMP-136 | 261115-001-0024 | Sep.12, 2016 | Sep.11, 2017 |
| 4 | Cable | Laplace | RF300 | - | Sep.12, 2016 | Sep.11, 2017 |
| 3m Semi-anechoic Chamber for Radiation(1#) | | | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1 | Spectrum Analyzer | R&S | FSP | 100091 | Apr. 29, 2016 | Apr. 28, 2017 |
| 2 | Amplifier | Agilent | 8447D | 2944A10178 | Jan. 12, 2017 | Jan. 11, 2018 |
| 3 | Active Loop Antenna | Beijing Dazhi | ZN30900A | 0703 | Oct. 17, 2016 | Oct. 16, 2017 |
| 4 | Trilog Broadband Antenna | SCHWARZBECK | VULB9163 | 336 | Apr. 07, 2016 | Apr. 06, 2017 |
| 5 | Coaxial Cable (below 1GHz) | Top | TYPE16(13M) | - | Sep.12, 2016 | Sep.11, 2017 |
| 6 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9120 D | 667 | Apr. 07, 2016 | Apr. 06, 2017 |
| 7 | Broadband Preamplifier | COMPLIANCE DIRECTION | PAP-1G18 | 2004 | Apr. 07, 2016 | Apr. 06, 2017 |
| 8 | Coaxial Cable (above 1GHz) | Top | 1GHz-18GHz | EW02014-7 | Apr. 07, 2016 | Apr. 06, 2017 |
| 3m Semi-anechoic Chamber for Radiation(2#) | | | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1 | Test Receiver | R&S | ESCI | 101296 | Apr. 06, 2016 | Apr. 05, 2017 |
| 2 | Trilog Broadband Antenna | SCHWARZBECK | VULB9160 | 9160-3325 | Apr. 06, 2016 | Apr. 05, 2017 |
| 3 | Amplifier | ANRITSU | MH648A | M43381 | Apr. 06, 2016 | Apr. 05, 2017 |
| 4 | Cable | HUBER+SUHNER | CBL2 | 525178 | Apr. 06, 2016 | Apr. 05, 2017 |

5.2 Measurement Uncertainty

| Parameter | Uncertainty |
|----------------------------------|--|
| Radio Frequency | $\pm 1 \times 10^{-6}$ |
| RF Power | ± 1.0 dB |
| RF Power Density | ± 2.2 dB |
| Radiated Spurious Emissions test | ± 5.03 dB (Bilog antenna 30M~1000MHz) |
| | ± 5.47 dB (Horn antenna 1000M~25000MHz) |

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 Test Summary

| Test Items | Test Requirement | Result |
|--|----------------------------------|--------|
| Conducted Emissions | 15.207 | N/A |
| Radiated Emission | 15.249(a) 15.209 15.205(a) | C |
| Outside of Band Emission | 15.249 15.205 15.209 | C |
| 20dB Bandwidth | 15:215(c) | C |
| Antenna Requirement | 15.203 | C |
| SAR | 1.1307(b)(1) | C |
| Note: C=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable | | |

7 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.249&15.209&15.205

Test Method: ANSI 63.10: 2010;ANSI 63.4: 2014

Measurement Distance: 3m

Test Result: PASS

15.249(a)Limit:

| Fundamental frequency | Field strength of fundamental | | Field strength of harmonics | |
|-----------------------|-------------------------------|--------|-----------------------------|--------|
| | mV/m | dBuV/m | uV/m | dBuV/m |
| 902-928 MHz | 50 | 94 | 500 | 54 |
| 2400-2483.5 MHz | 50 | 94 | 500 | 54 |
| 5725-5875 MHz | 50 | 94 | 500 | 54 |
| 24.0-24.25 GHz | 250 | 108 | 2500 | 68 |

15.209 Limit:

| Frequency (MHz) | Field Strength | | Field Strength Limit at 3m Measurement Dist | |
|--------------------|-----------------------|-----------------|---|---------------------------------------|
| | uV/m | Distance (m) | uV/m | dBuV/m |
| 0.009 ~ 0.490 | $2400/F(\text{kHz})$ | 300 | $10000 * 2400/F(\text{kHz})$ | $20\log^{(2400/F(\text{kHz}))} + 80$ |
| 0.490 ~ 1.705 | $24000/F(\text{kHz})$ | 30 | $100 * 24000/F(\text{kHz})$ | $20\log^{(24000/F(\text{kHz}))} + 40$ |
| 1.705 ~ 30 | 30 | 30 | $100 * 30$ | $20\log^{(30)} + 40$ |
| 30 ~ 88 | 100 | 3 | 100 | $20\log^{(100)}$ |
| 88 ~ 216 | 150 | 3 | 150 | $20\log^{(150)}$ |
| 216 ~ 960 | 200 | 3 | 200 | $20\log^{(200)}$ |
| Above 960 | 500 | 3 | 500 | $20\log^{(500)}$ |

Note: RF Voltage(dBuV)= $20 \log_{10}$ RF Voltage(uV)

7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

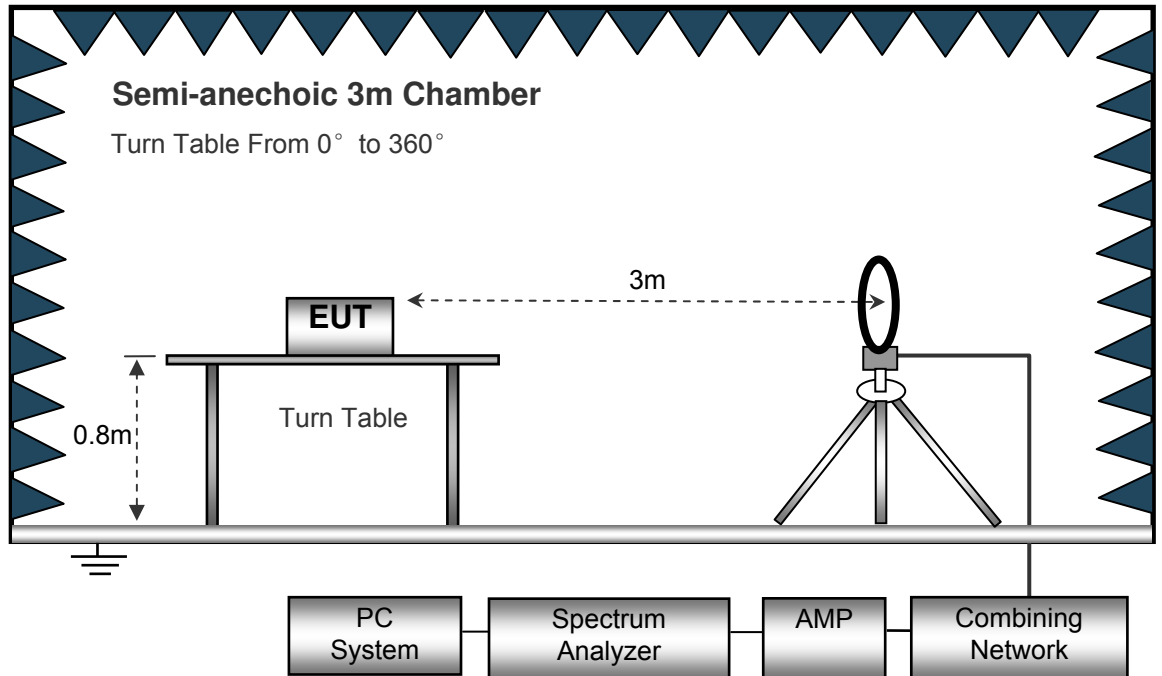
EUT Operation :

Refer to section 4.5.

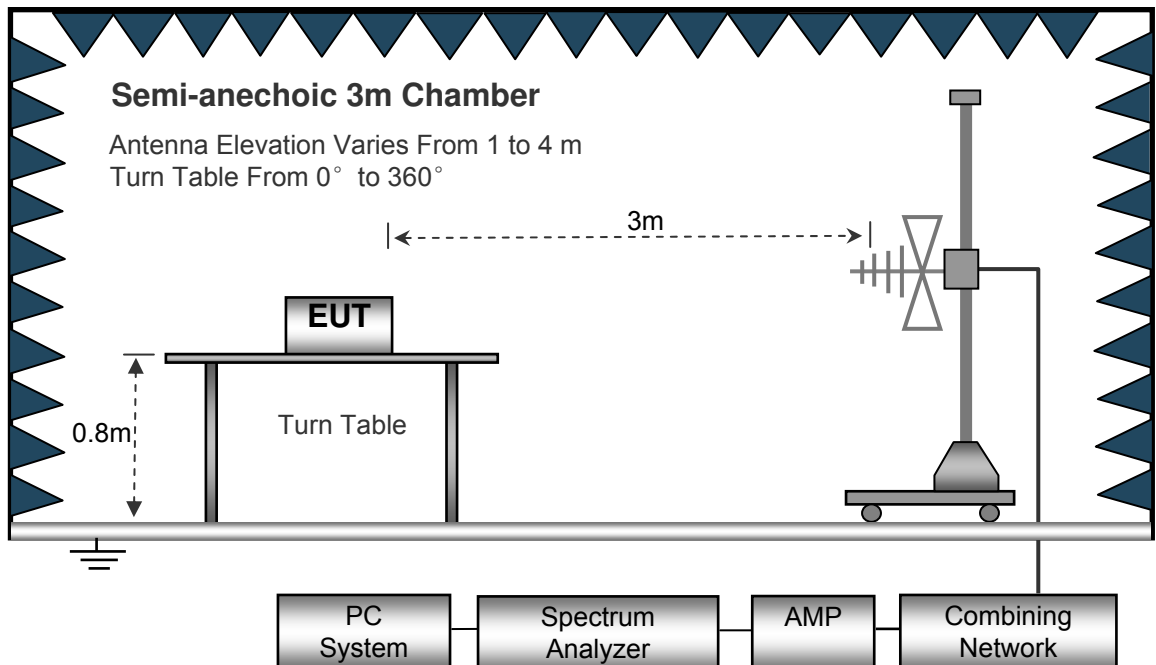
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

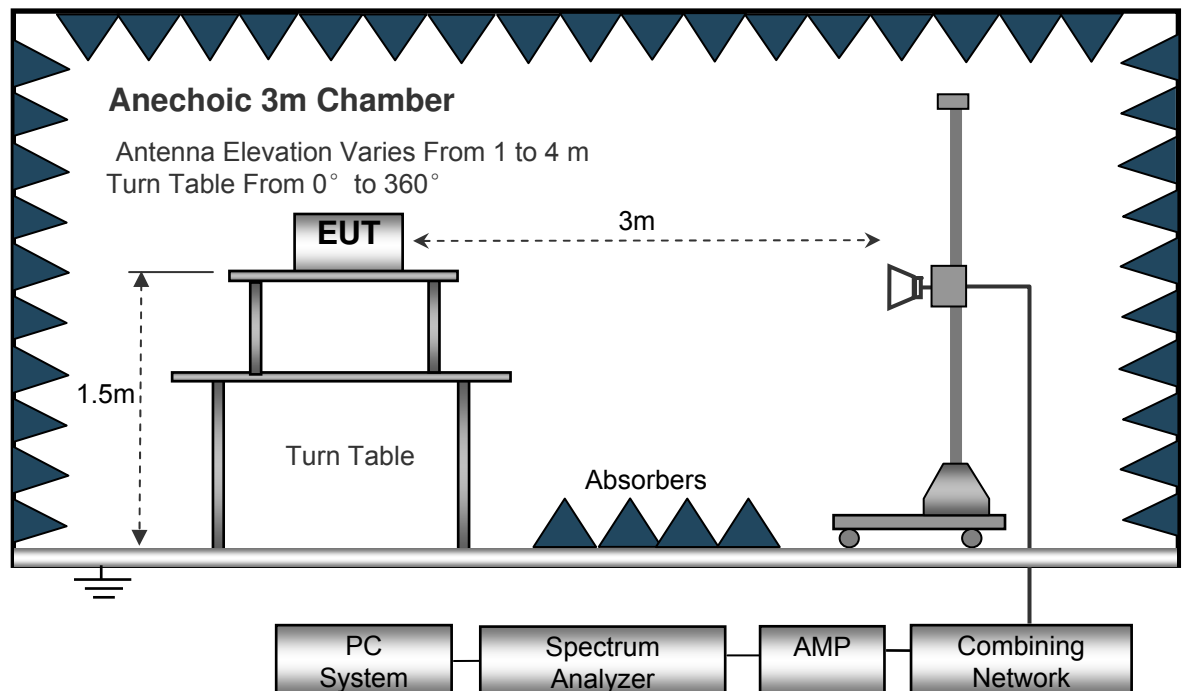
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth 10kHz
 Resolution Bandwidth 10kHz

30MHz ~ 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 100kHz
 Video Bandwidth 300kHz

Above 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 1MHz
 Video Bandwidth 3MHz
 Detector Ave.
 Resolution Bandwidth..... 1MHz
 Video Bandwidth 10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable. For below 1GHz, the EUT is 0.8m above ground plane; For above 1GHz, the EUT is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

7.5 Test Result

Test Frequency: 9 KHz ~ 30 MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz

| Frequency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected Factor | Corrected Amplitude | Limit | Margin |
|------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
| | | | | Height | Polar | | | | |
| (MHz) | (dB μ V) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) |
| GFSK Low Channel | | | | | | | | | |
| 897.00 | 35.23 | QP | 78 | 1.8 | H | -2.82 | 32.41 | 46.00 | -13.59 |
| 897.00 | 28.86 | QP | 6 | 1.4 | V | -2.82 | 26.04 | 46.00 | -19.96 |
| 2420.00 | 92.00 | PK | 25 | 1.7 | H | -15.27 | 76.73 | 114.00 | -37.27 |
| 2420.00 | 79.85 | Ave | 25 | 1.7 | H | -15.27 | 64.58 | 94.00 | -29.42 |
| 4840.00 | 64.84 | PK | 35 | 1.7 | H | -2.09 | 62.75 | 74.00 | -11.25 |
| 4840.00 | 51.62 | Ave | 35 | 1.7 | H | -2.09 | 49.53 | 54.00 | -4.47 |
| 7260.00 | 46.89 | PK | 152 | 1.7 | H | 1.22 | 48.11 | 74.00 | -25.89 |
| 7260.00 | 35.78 | Ave | 152 | 1.7 | H | 1.22 | 37.00 | 54.00 | -17.00 |
| 2340.19 | 46.39 | PK | 103 | 1.6 | V | -13.19 | 33.20 | 74.00 | -40.80 |
| 2340.19 | 39.80 | Ave | 103 | 1.6 | V | -13.19 | 26.61 | 54.00 | -27.39 |
| 2350.34 | 44.44 | PK | 131 | 1.2 | H | -13.14 | 31.30 | 74.00 | -42.70 |
| 2350.34 | 38.26 | Ave | 131 | 1.2 | H | -13.14 | 25.12 | 54.00 | -28.88 |
| 2485.21 | 44.92 | PK | 25 | 2.0 | V | -13.08 | 31.84 | 74.00 | -42.16 |
| 2485.21 | 36.90 | Ave | 25 | 2.0 | V | -13.08 | 23.82 | 54.00 | -30.18 |

| Frequency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected Factor | Corrected Amplitude | Limit | Margin |
|---------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
| | | | | Height | Polar | | | | |
| (MHz) | (dB μ V) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) |
| GFSK Middle Channel | | | | | | | | | |
| 897.00 | 33.95 | QP | 230 | 1.7 | H | -2.82 | 31.13 | 46.00 | -14.87 |
| 897.00 | 27.98 | QP | 68 | 2.0 | V | -2.82 | 25.16 | 46.00 | -20.84 |
| 2450.00 | 89.09 | PK | 124 | 1.6 | H | -15.33 | 73.76 | 114.00 | -40.24 |
| 2450.00 | 74.32 | Ave | 124 | 1.6 | H | -15.33 | 58.99 | 94.00 | -35.01 |
| 4900.00 | 64.75 | PK | 223 | 1.1 | H | -1.63 | 63.12 | 74.00 | -10.88 |
| 4900.00 | 50.18 | Ave | 223 | 1.1 | H | -1.63 | 48.55 | 54.00 | -5.45 |
| 7350.00 | 44.81 | PK | 117 | 1.5 | H | 1.24 | 46.05 | 74.00 | -27.95 |
| 7350.00 | 34.85 | Ave | 117 | 1.5 | H | 1.24 | 36.09 | 54.00 | -17.91 |
| 2321.33 | 45.38 | PK | 92 | 1.7 | V | -13.19 | 32.19 | 74.00 | -41.81 |
| 2321.33 | 39.90 | Ave | 92 | 1.7 | V | -13.19 | 26.71 | 54.00 | -27.29 |
| 2371.30 | 44.33 | PK | 276 | 1.1 | H | -13.14 | 31.19 | 74.00 | -42.81 |
| 2371.30 | 37.10 | Ave | 276 | 1.1 | H | -13.14 | 23.96 | 54.00 | -30.04 |
| 2487.81 | 44.17 | PK | 324 | 1.9 | V | -13.08 | 31.09 | 74.00 | -42.91 |
| 2487.81 | 38.90 | Ave | 324 | 1.9 | V | -13.08 | 25.82 | 54.00 | -28.18 |

| Frequency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected Factor | Corrected Amplitude | Limit | Margin |
|-------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
| | | | | Height | Polar | | | | |
| (MHz) | (dB μ V) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) |
| GFSK High Channel | | | | | | | | | |
| 897.00 | 34.53 | QP | 49 | 1.5 | H | -2.82 | 31.71 | 46.00 | -14.29 |
| 897.00 | 28.66 | QP | 210 | 1.7 | V | -2.82 | 25.84 | 46.00 | -20.16 |
| 2480.00 | 90.64 | PK | 123 | 0.9 | H | -15.38 | 75.26 | 114.00 | -38.74 |
| 2480.00 | 75.41 | Ave | 123 | 0.9 | H | -15.38 | 60.03 | 94.00 | -33.97 |
| 4960.00 | 63.01 | PK | 196 | 1.1 | H | -1.16 | 61.85 | 74.00 | -12.15 |
| 4960.00 | 51.07 | Ave | 196 | 1.1 | H | -1.16 | 49.91 | 54.00 | -4.09 |
| 7440.00 | 46.11 | PK | 101 | 1.8 | H | 1.28 | 47.39 | 74.00 | -26.61 |
| 7440.00 | 32.26 | Ave | 101 | 1.8 | H | 1.28 | 33.54 | 54.00 | -20.46 |
| 2339.14 | 46.21 | PK | 99 | 1.0 | V | -13.19 | 33.02 | 74.00 | -40.98 |
| 2339.14 | 39.19 | Ave | 99 | 1.0 | V | -13.19 | 26.00 | 54.00 | -28.00 |
| 2359.10 | 43.67 | PK | 70 | 1.1 | H | -13.14 | 30.53 | 74.00 | -43.47 |
| 2359.10 | 38.16 | Ave | 70 | 1.1 | H | -13.14 | 25.02 | 54.00 | -28.98 |
| 2487.53 | 44.47 | PK | 338 | 1.3 | V | -13.08 | 31.39 | 74.00 | -42.61 |
| 2487.53 | 37.69 | Ave | 338 | 1.3 | V | -13.08 | 24.61 | 54.00 | -29.39 |

Test Frequency: From 18GHz to 25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Outside of Band Emission

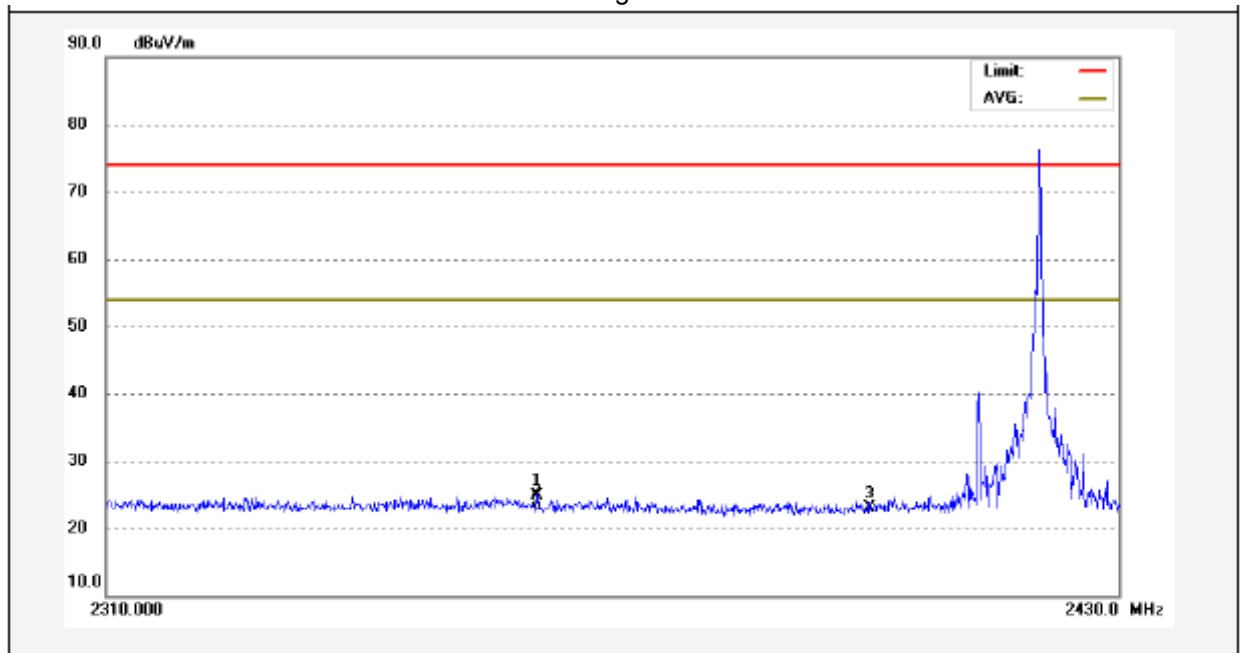
| | |
|-------------------|---|
| Test Requirement: | 15.249(d):Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation. |
| Test Method: | ANSI C63.10:2010 |
| Test Mode: | Transmitting |

8.1 Test Procedure

Refer to section 8.4 of this test report.

8.2 Test Result

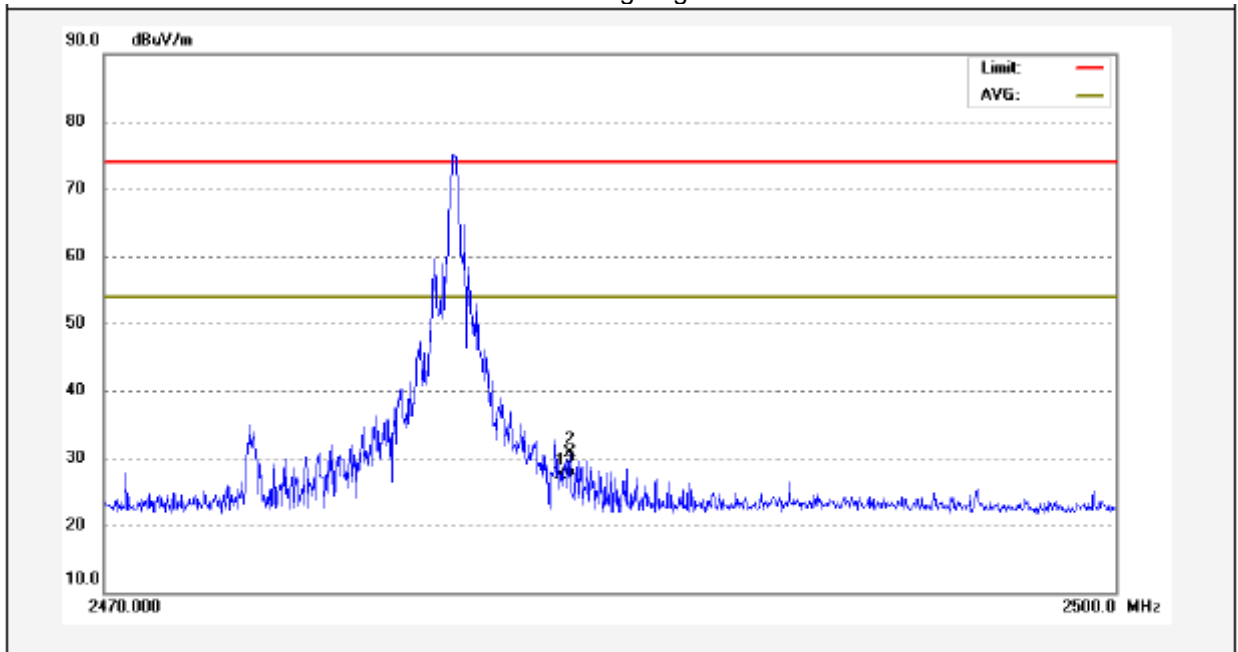
Band edge-left side



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1 | 2360.400 | 40.16 | -15.16 | 25.00 | 74.00 | -49.00 | peak | |
| 2 | 2360.400 | 38.61 | -15.16 | 23.45 | 54.00 | -30.55 | AVG | |
| 3 | 2400.000 | 38.27 | -15.24 | 23.03 | 74.00 | -50.97 | peak | |

Remark: The worst case (Horizontal) was recorded.

Band edge-right side



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1 | 2483.500 | 42.83 | -15.39 | 27.44 | 74.00 | -46.56 | peak | |
| 2 | 2483.770 | 46.06 | -15.39 | 30.67 | 74.00 | -43.33 | peak | |
| 3 | 2483.770 | 43.30 | -15.39 | 27.91 | 54.00 | -26.09 | AVG | |

Remark: The worst case (Horizontal) was recorded.

9 Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.215(c)
 Test Method: ANSI C63.10:2010
 Test Mode: Transmitting

9.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 10 kHz, VBW = 30 kHz

9.2 Test Result

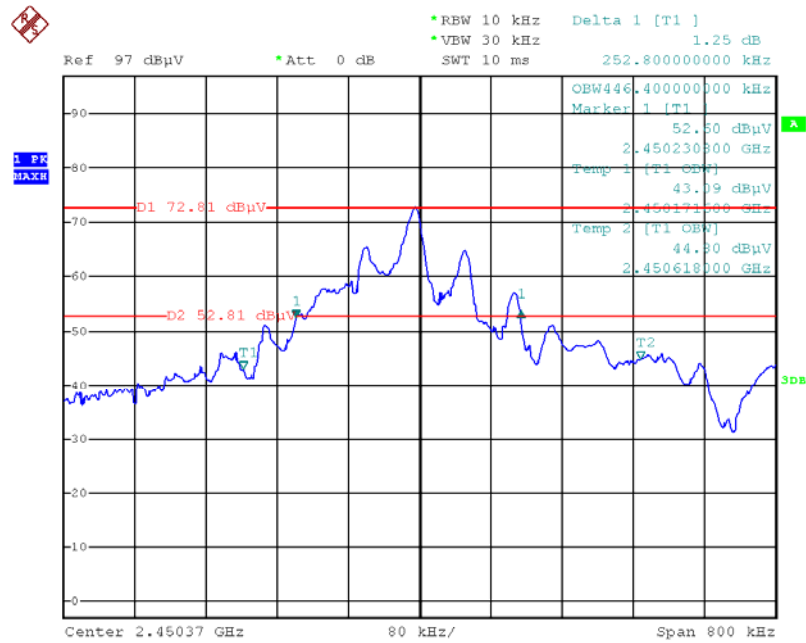
| Operation mode | 20dB Bandwidth (KHz) | 99% Bandwidth (KHz) |
|----------------|----------------------|---------------------|
| Low channel | 216.00 | 345.60 |
| Middle channel | 252.80 | 446.40 |
| High channel | 251.20 | 470.40 |

Test result plot as follows:

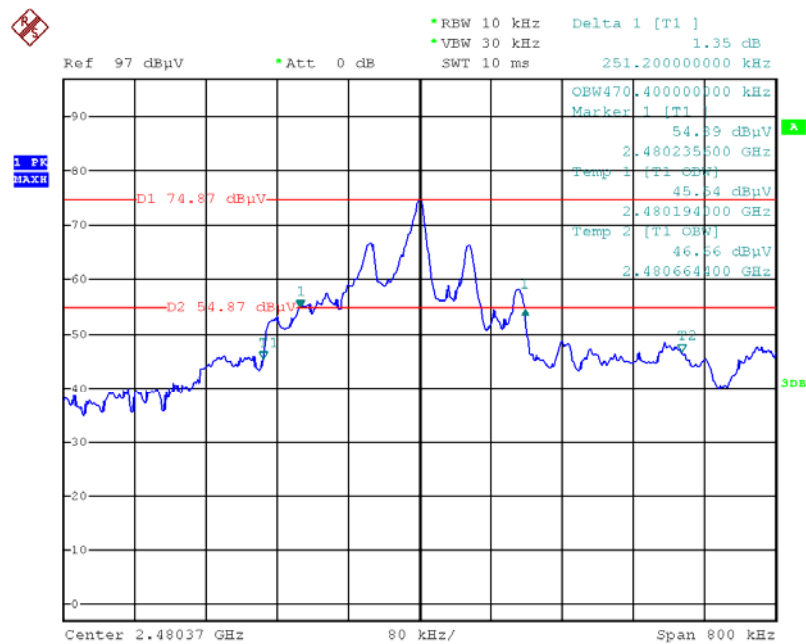
Mode: Low channel



Mode: Middle channel



Mode: High channel



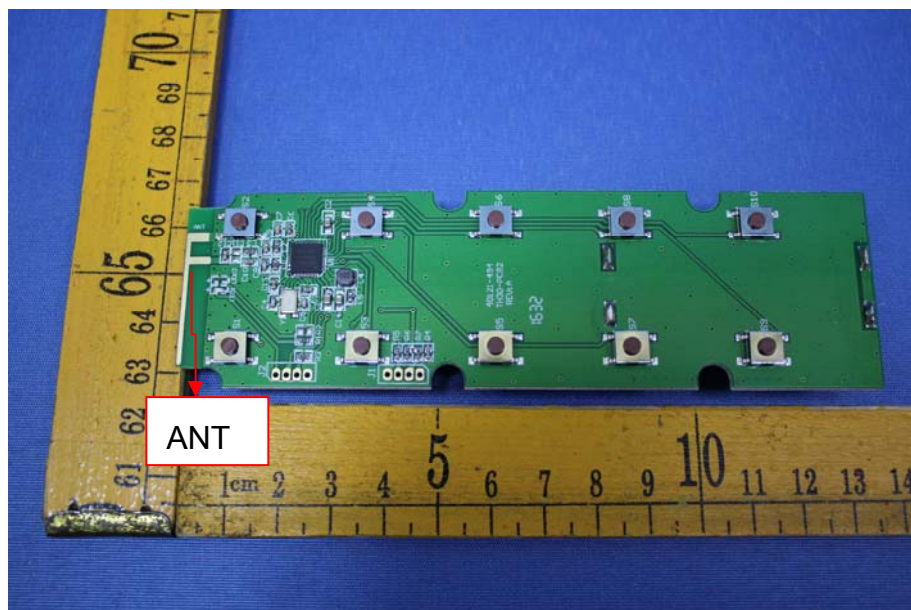
10 Antenna Requirement

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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.

Result:

The EUT has one PCB Printed Antenna, the gain is 0dBi. meets the requirements of FCC 15.203.



11 SAR Evaluation

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part2.1093 & 447498 D01 General RF Exposure Guidance v06

11.1 Requirements

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

11.2 The procedures / limit

| Source-based time-averaged maximum output power(dBm) | Source-based time-averaged maximum output power(mW) | Minimum test separation distance required for the exposure conditions(mm) | SAR Test Exclusion Thresholds(mW) | Evaluation Result |
|--|---|---|-----------------------------------|-------------------|
| -18.47 | 0.01422 | 5 | 9.525 | Compliance |

Note: the following is Source-based time-averaged maximum output power Calculation

| Frequency | Source-based time-averaged maximum output power | Substituted (0dBm) | Source-based time-averaged maximum output power |
|-----------|---|--------------------|---|
| (MHz) | (dB μ V/m) | (dB μ V/m) | (dBm) |
| 2420 | 76.73 | 95.20 | -18.47 |

11.3 Result: Compliance

No SAR measurement is required.

12 Photographs- Model TH30 Test Setup Photos

12.1 Photograph - Radiation Emission

Test frequency from 9 KHz to 30MHz at test site 2#



Test frequency from 30MHz to 1GHz at test site 2#





Test frequency above 1GHz at test site 1#





13 Photographs - Constructional Details

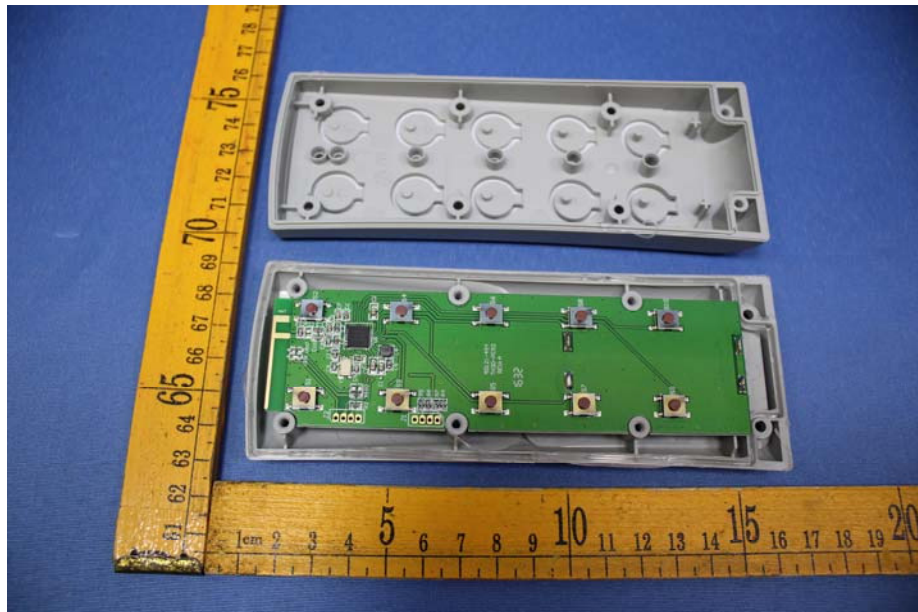
13.1 Photographs –Model TH30 External Photos

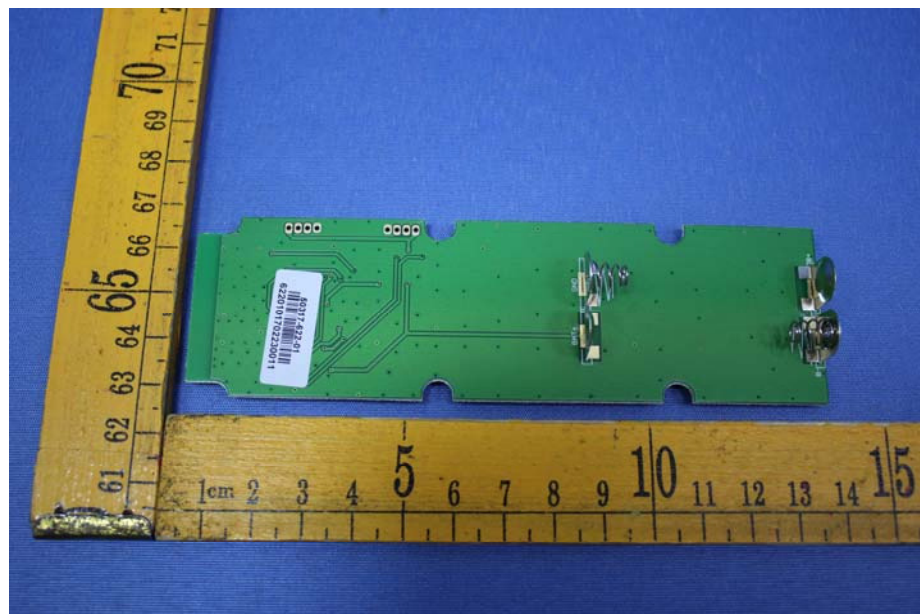
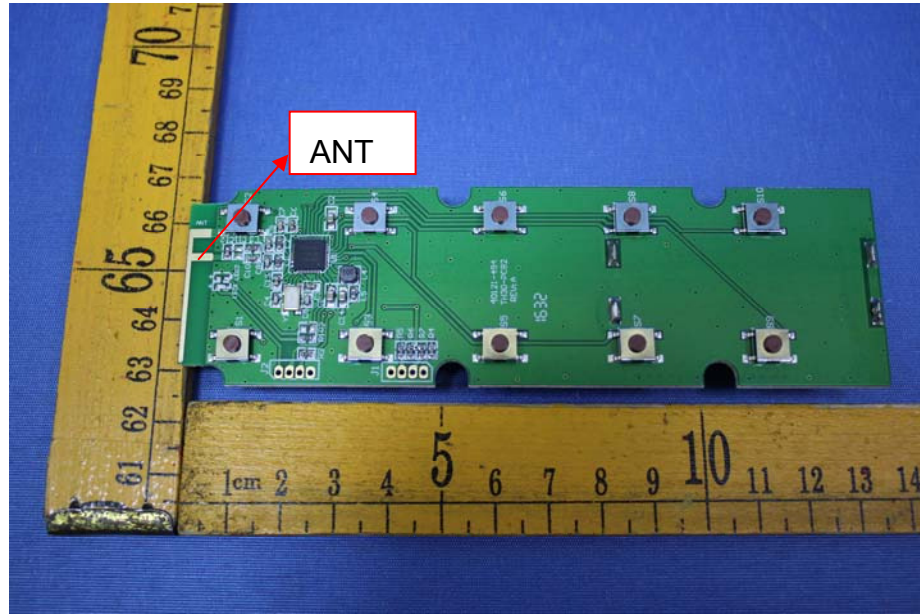


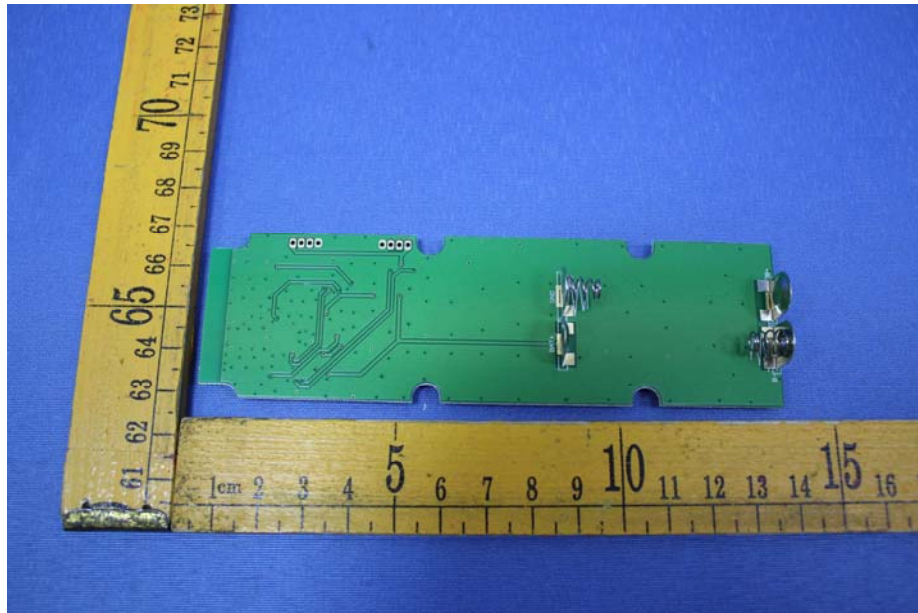




13.2 Photographs – Model TH30 Internal Photos







=====**End of Report**=====