



## FCC Verification Certificate



|                               |   |
|-------------------------------|---|
| <b>Product Type</b>           | Smart G-Scope   |
| <b>Model</b>                  | G-Scope G1  |
| <b>Multiple Models</b>        | G-Scope G2, G-Scope G3, G-Scope G4, G-Scope G5,<br>G-Scope G6, G-Scope G7 |
| <b>Applicant</b>              | Genie Tech Inc.   |
| <b>Contact Person</b>         | Kevin Ryu / President   |
| <b>Phone / Fax</b>            | Tel: +82-2-857-8890 Fax: +82-2-868-8892                                   |
| <b>FCC Designation Number</b> | KR0022  |
| <b>Test Report No.</b>        | ETLE150415.0482   |
| <b>Issue Date</b>             | August 25, 2015   |
| <b>FCC Rule Part(s)</b>       | Part 15 Subpart B   |
| <b>Classification</b>         | All other devices   |
| <b>Limit Apply</b>            | FCC Part 15.107(b),(d) & 15.109(b) Class A                                |

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standard as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2009.

I attest to the accuracy of data and all measurement reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualification of all persons taking them.



Chief Engineer **Hyung Min, Choi**

Date of issue : August 25, 2015



# Electromagnetic Emission

## FCC MEASUREMENT REPORT

### VERIFICATION OF COMPLIANCE


#### FCC Part 15 Verification Measurement

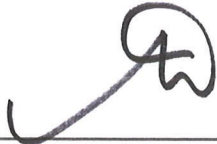
PRODUCT : Smart G-Scope  
MODEL/TYPE NO : G-Scope G1 / NONE  
MULTIPLE MODEL : G-Scope G2, G-Scope G3, G-Scope G4, G-Scope G5,  
G-Scope G6, G-Scope G7  
BRAND NAME : Smart G-Scope  
APPLICANT : Genie Tech Inc.  
Rm.809, Daeryungpost Tower VII, 170-10,  
Guro-3dong, Guro-gu, Seoul, Korea  
Attn.: Kevin Ryu / President  
MANUFACTURER : Genie Tech Inc.  
Rm.809, Daeryungpost Tower VII, 170-10,  
Guro-3dong, Guro-gu, Seoul, Korea  
FCC CLASSIFICATION : All other devices  
RULE PART(S) : FCC Part 15 Subpart B  
FCC PROCEDURE : ANSI C63.4-2009  
TEST REPORT No. : ETLE150415.0482  
DATES OF TEST : August 12, 2015 to August 15, 2015  
REPORT ISSUE DATE : August 25, 2015  
TEST LABORATORY : ETL Inc. (FCC Designation Number : KR0022)

This Smart G-Scope, Model G-Scope G1 has been tested in accordance with the measurement procedures specified in ANSI C63.4-2009 at the ETL/EMC Test Laboratory and has been shown to be complied with the electromagnetic radiated emission limits specified in FCC Rule Part15 Subpart B:

I attest to the accuracy of data. All measurement herein was performed by me or was made under my supervision and is correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared by:   
Jung Yeoul, Kim (Test Engineer)  
August 25, 2015

Reviewed by:   
Hyung Min, Choi (Chief Engineer)  
August 25, 2015

**ETL Inc.**  
**114, Gasan digital 2-ro, Geumcheon-gu, Seoul, 153-803, Korea**  
**Tel: 82-2-858-0786 Fax: 82-2-858-0788**

*The test report merely corresponds to the test sample(s).  
This report shall not be reproduced, in whole or in part without the written approval of ETL Inc.*

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## FCC MEASUREMENT REPORT

**Scope** – Measurement and determination of electromagnetic emission(EME) of radio frequency devices including intentional radiators and/or unintentional radiators for compliance with the technical rules and regulations of the U.S Federal Communications Commission(FCC)

### General Information

**Applicant Name :** Genie Tech Inc.

**Address :** Rm.809, Daeryungpost Tower VII, 170-10,  
Guro-3dong, Guro-gu, Seoul, Korea

**Attention :** Kevin Ryu / President

- **EUT Type :** Smart G-Scope
- **Model Number :** G-Scope G1
- **S/N :** NONE
- **Rule Part(s) :** FCC Part 15 Subpart B
- **Test Procedure :** ANSI C63.4-2009
- **FCC Classification :** All other devices
- **Dates of Tests :** August 12, 2015 to August 15, 2015
- **Environmental of Tests :**  
Temperature:  $(27.8 \pm 4.8) ^\circ\text{C}$   
Humidity:  $(54 \pm 6) \% \text{ R.H.}$   
Atmospheric Pressure:  $(100.6 \pm 0.2) \text{ kPa}$
- **Place of Tests :** ETL Inc. Testing Lab. (FCC Designation Number : KR0022)  
  
Radiated Emission test 1;  
97-4, Gureomae-gil, Seosin-myeon, Hwaseong-si,  
Gyeonggi-do, 445-882, Korea  
  
Radiated Emission test 2 and Conducted Emission test;  
114, Gasan digital 2-ro, Geumcheon-gu, Seoul, 153-803, Korea
- **Test Report No. :** ETLE150415.0482

## 1. INTRODUCTION

The measurement test for radiated and conducted emission test was conducted at the ETL Inc. The site is constructed in conformance with the requirements of the ANSI C63.4-2009 and CISPR Publication 16. The ETL has site descriptions on file with the FCC for 3 m and 10 m site configurations. Detailed description of test facility was found to be in compliance with the requirements of Section 2.948 FCC Rules according to the ANSI C63.4-2009 and registered to the Federal Communications Commission (FCC Designation Number : KR0022).

The measurement procedure described in American National Standard for Method of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2009) was used in determining radiated and conducted emissions from the Genie Tech Inc., Model: G-Scope G1.

## 2. PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the Smart G-Scope (model: G-Scope G1).

The model G-Scope G1 is basic model that was tested.

The multi models G-Scope G2, G-Scope G3, G-Scope G4, G-Scope G5, G-Scope G6 and G-Scope G7 are identical to basic model, except for model designation.

### 2.2 General Specification

|                    |   |
|--------------------|---|
| Magnify            | x10 ~ x250  |
| Sensor             | 3.5M Pixel CMOS                                   |
| Auto Focus         | Fast Auto Focus using Liquid Lens                 |
| Working Distance   | Contact ~ Infinity by Mode Change                 |
| OLED               | Display Magnify Mode & Temp.                      |
| Lighting           | White LED with On/Off Control                     |
| Movie Recording    | 30fps, AVI(1920x1080, 1280x720, 720x480, 640x480) |
| Image Capture      | JPG(1920x1080, 1280x720, 720x480, 640x480)        |
| Length Calculation | Yes   |
| Attachable End Cap | Polarity filter End Cap                           |
|                    | 3Pi Corner End Cap                                |
|                    | Endoscope for Ear                                 |
|                    | Endoscope for Iris                                |
|                    | Endoscope for Dental                              |
|                    | Infrared Thermometer                              |
|                    | Telephoto End Cap                                 |
| Exposure           | Auto Exposure                                     |
| Color Control      | Auto White Balance                                |

|                         |   |
|-------------------------|---|
| Image Processing        | Emboss, Sketch, Grayscale, Opposite Negative, etc |
| Interface               | USB 2.0 High Speed                                |
| O/S                     | Win XP, Win7, WIn8, Mac OS, Linux, Android        |
| Stand                   | Optional  |
| High Internal Frequency | X-tal: 24 MHz                                     |

## 3. DESCRIPTION OF TESTS

### 3.1 Conducted Emission Measurement

Conducted emissions measurements were made in accordance with section 11, "Measurement of Information Technology Equipment" of ANSI C63.4-2009. The measurements were performed over the frequency range of 0.15 MHz to 30 MHz using a 50  $\Omega$ /50  $\mu$ H LISN as the input transducer to a Spectrum Analyzer or a Test Receiver. The measurements were made with the detector set for "Peak" amplitude within a bandwidth of 9 kHz or for "quasi-peak" within a bandwidth of 9 kHz.

The line-conducted emission test is conducted inside a shielded anechoic chamber room with 1 m x 1.5 m x 0.8 m wooden table which is placed 40 cm away from the vertical wall and 1.5 m away from the side wall of the chamber room. Two LISN are bonded to the shielded room. The EUT is powered from the LISN and the support equipment is powered from the other LISN. Power to the LISNs are filtered by a noise cut power line filters. All electrical cables are shielded by braided tinned steel tubing with inner  $\phi$  1.2 cm. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and these supply lines will be connected to the LISN. Non-inductive bundling to a 1 m length shortened all interconnecting cables more than 1 m. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the EMI Test Receiver to determine the frequency producing the maximum emission from the EUT. The frequency producing the maximum level was reexamined using to set Quasi-Peak mode by manual, after scanned by automatic Peak mode from 0.15 MHz to 30 MHz. The bandwidth of the spectrum analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission.

Photographs of the worst-case emission can be seen in photographs of conducted emission test setup in Appendix B.



## 3.2 Radiated Emission Measurement

Radiated emission measurements were made in accordance with section 11, "Measurement of Information Technology Equipment" of ANSI C63.4-2009. The measurements were performed over the frequency range of 30 MHz to 40 GHz (or 5th harmonic of the highest frequency) in using antenna as the input transducer to a spectrum analyzer or a field intensity meter. The measurements below 1 GHz were made with the detector set for "Quasi-peak" within a bandwidth of 120 kHz. The measurements above 1 GHz were made with the detector set for "Peak and Average" within a bandwidth of 1 MHz.

Preliminary measurements were made at 3 m using broadband antennas, and spectrum analyzer to determined the frequency producing the maximum emission in shielded room. Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 MHz to 1 000 MHz using Log-Bicon antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used. Final measurements were made open site or SVSWR chamber at 10 m and 3 m. The test equipment was placed on a styrofoam table. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined by manual. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8 m high nonmetallic 1 m x 1.5 m table. The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each emission. The turntable containing the system was rotated; the antenna height was varied 1 m to 4 m and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation to the EUT and/or support equipment and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in Photographs of the worst-case emission test setup can be seen in Appendix B.

## 4. TEST CONDITION

### 4.1 Test Configuration

The device was configured for testing in a typical fashion (as a customer would normally use it). During the tests, the EUT and the supported equipments were installed to meet FCC requirement and operated in a manner and which tends to maximize its emission level in a typical application.

### 4.2 EUT operation

The equipment under test was operated during the measurement under following conditions:

- Normal operating mode (Scope mode)(CL\_AMC)

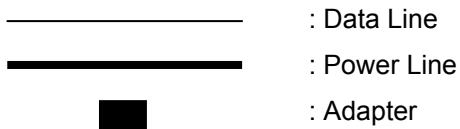
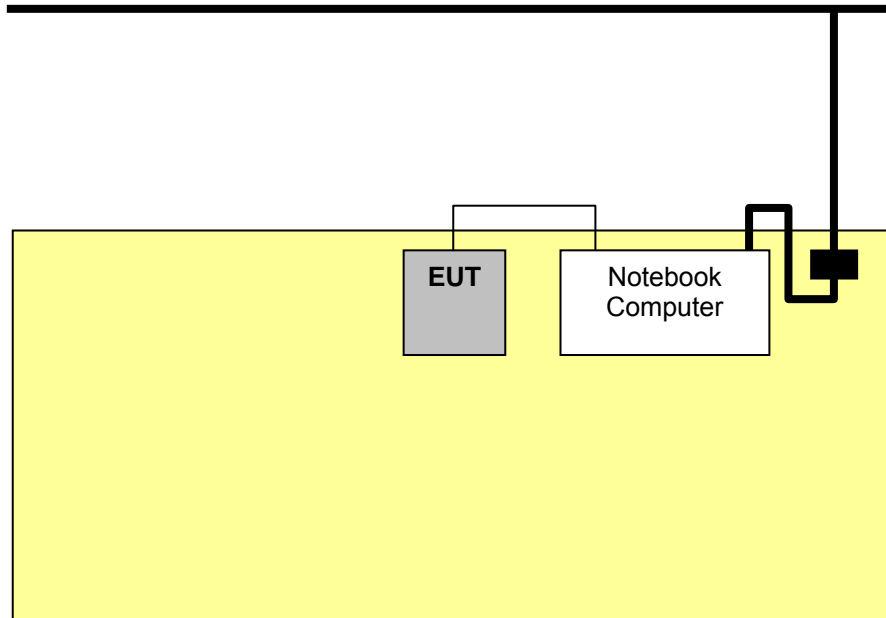
### 4.3 Support Equipment Used

| Description                        | Model Name    | Serial No.         | Manufacturer                    |
|------------------------------------|---------------|--------------------|---------------------------------|
| Notebook Computer                  | ProBook 6560b | 4CZ124083M         | Hewlett-Packard Company         |
| Adapter<br>(for Notebook Computer) | PPP009D       | WBGSV0ADD0P4<br>RA | Delta Electronics (Jiangsu) Ltd |

### 4.4 Type of Cables Used

| Device from       | Device to         | Type of Cable(Port) | Length[m] | Type of shield |
|-------------------|-------------------|---------------------|-----------|----------------|
| EUT               | Notebook Computer | Micro USB           | 1.0       | Shielded       |
| Notebook Computer | Adapter           | DC Input            | 1.2       | Shielded       |

## 4.5 The setup drawing(s)



## 5. TEST RESULTS

### 5.1 Summary of Test Results

The measurement results were obtained with the EUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum emission of the EUT are reported.

| FCC Rule      | Measurement Required                        | Result                      |
|---------------|---|-----------------------------|
| 15.107(b),(d) | Conducted Emission Measurement              | <b>Passed by 23.51 dB *</b> |
| 15.109(b)     | Radiated Emission Measurement (Below 1 GHz) | <b>Passed by 11.10 dB</b>   |
| 15.109(b)     | Radiated Emission Measurement (Above 1 GHz) | <b>Passed by 32.80 dB</b>   |

\* This test was tested at main host computer (EUT was connected USB port of the host computer).

The data collected shows that the **Genie Tech Inc. / Smart G-Scope / G-Scope G1** complied with technical requirements of above rules part 15.107(b),(d) and 15.109(b) Class A Limits.

The equipment is not modified anything, mechanical or circuits to improve EMI status during a measurement. No EMI suppression device(s) was added and/or modified during testing.

## 5.2 Conducted Emissions Measurement

### 5.2.1 Conducted Emissions Data

|                       |   |
|-----------------------|---|
| EUT                   | Smart G-Scope / G-Scope G1 (S/N: N/A)               |
| Limit apply to        | FCC Part 15.107(b),(d) Class A                      |
| Test Date             | August 15, 2015                                     |
| Environmental of test | (23.0 ± 0.0) °C, (48 ± 0) % R.H., (100.4 ± 0.0) kPa |
| Operating Condition   | Normal operating mode (Scope mode)(CL_AMC)          |
| Result                | Passed by 23.51 dB                                  |

### Conducted Emission Test Data

The following data and graph shows the highest levels of conducted emissions on both polarizations of hot and neutral line.

Detector mode: CISPR Quasi-Peak mode (6 dB Bandwidth: 9 kHz)

#### NOTES:

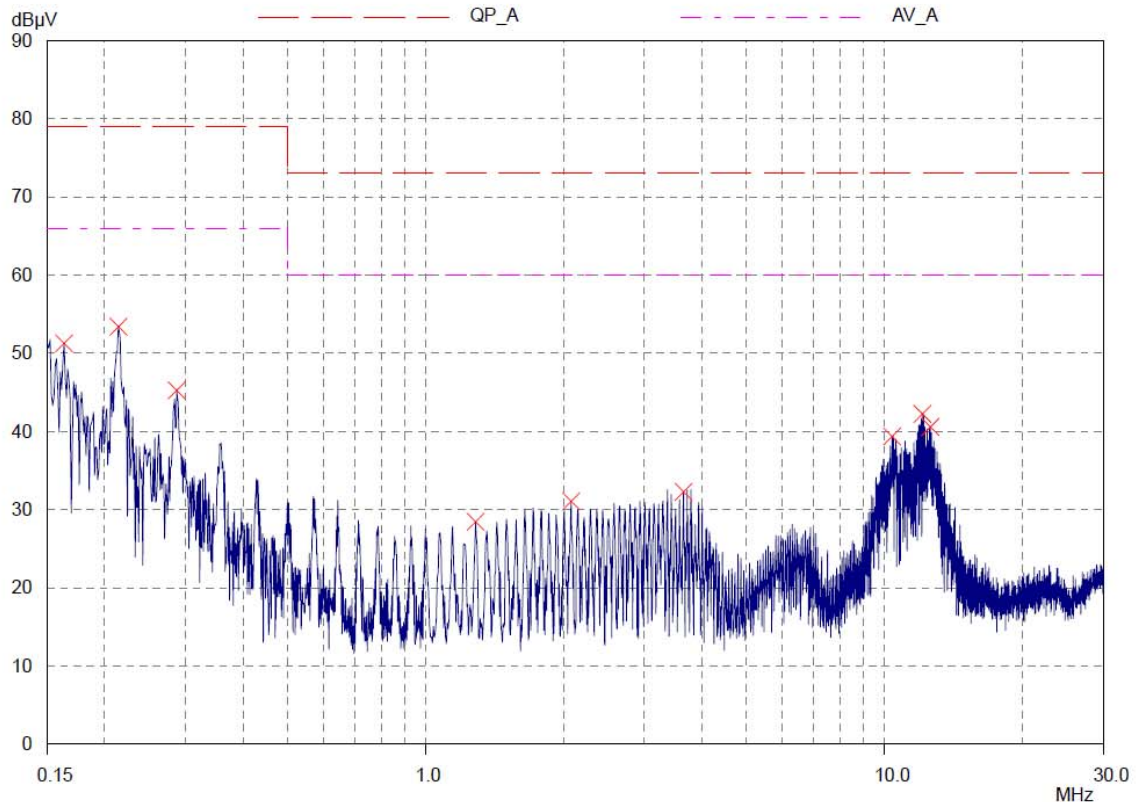
1. Please see the measured data and graph in next page.
2. The Level (Result) value was included the reading, LISN factor and cable loss.
3. Delta (Margin) value = Limit - Level (Result)
4. Measurement were performed at the AC Power Inlet in the frequency band of 150 kHz ~ 30 MHz according to the FCC Part 15.107(b),(d) Class A.
5. If the Quasi-Peak limit is met when using a Peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the Quasi-Peak detector receiver is unnecessary.
6. If the average limit is met when using a Quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



Line: HOT

ETL EMC Laboratory  
Conducted Emission Test Result  
EUT: ETLE150415.0482  
Manuf:  
Op Cond:  
Operator:  
Test Spec:  
Comment: HOT

|                      |             |                   |
|----------------------|-------------|-------------------|
| Prescan Measurement: | Detector:   | X PK              |
|                      | Meas Time:  | see scan settings |
|                      | Peaks:      | 8                 |
|                      | Acc Margin: | 20 dB             |



## ETL EMC Laboratory

### Conducted Emission Test Result

EUT: ETLE150415.0482

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: HOT

Prescan Measurement:      Detector: X PK  
Meas Time: see scan settings  
Peaks: 8  
Acc Margin: 20 dB

#### Peak Search Results

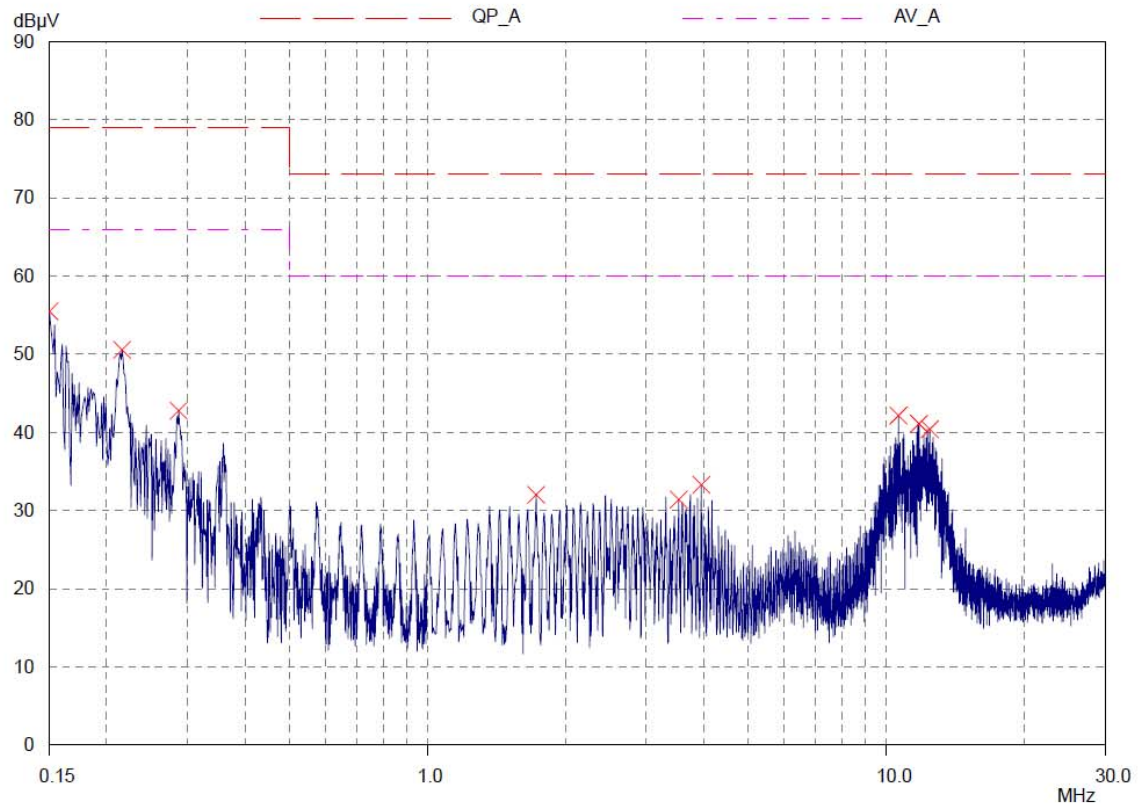
| Frequency<br>MHz | PK Level<br>dB $\mu$ V | PK Limit<br>dB $\mu$ V | PK Delta<br>dB |
|------------------|------------------------|------------------------|----------------|
| 0.163            | 51.28                  | 79.00                  | 27.72          |
| 0.214            | 53.41                  | 79.00                  | 25.59          |
| 0.287            | 45.27                  | 79.00                  | 33.73          |
| 1.285            | 28.46                  | 73.00                  | 44.54          |
| 2.075            | 31.07                  | 73.00                  | 41.93          |
| 3.65             | 32.29                  | 73.00                  | 40.71          |
| 10.38            | 39.37                  | 73.00                  | 33.63          |
| 12.09            | 42.26                  | 73.00                  | 30.74          |
| 12.59            | 40.57                  | 73.00                  | 32.43          |

\* limit exceeded

## Line: Neutral

ETL EMC Laboratory  
Conducted Emission Test Result  
EUT: ETLE150415.0482  
Manuf:  
Op Cond:  
Operator:  
Test Spec:  
Comment: NEUTRAL

|                      |             |                   |
|----------------------|-------------|-------------------|
| Prescan Measurement: | Detector:   | X PK              |
|                      | Meas Time:  | see scan settings |
|                      | Peaks:      | 8                 |
|                      | Acc Margin: | 20 dB             |



## ETL EMC Laboratory

### Conducted Emission Test Result

EUT: ETLE150415.0482

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: NEUTRAL

|                      |             |                   |
|----------------------|-------------|-------------------|
| Prescan Measurement: | Detector:   | X PK              |
|                      | Meas Time:  | see scan settings |
|                      | Peaks:      | 8                 |
|                      | Acc Margin: | 20 dB             |

#### Peak Search Results

| Frequency<br>MHz | PK Level<br>dBμV | PK Limit<br>dBμV | PK Delta<br>dB |
|------------------|------------------|------------------|----------------|
| 0.15             | 55.49            | 79.00            | 23.51          |
| 0.216            | 50.57            | 79.00            | 28.43          |
| 0.287            | 42.79            | 79.00            | 36.21          |
| 1.725            | 32.02            | 73.00            | 40.98          |
| 3.525            | 31.40            | 73.00            | 41.60          |
| 3.95             | 33.29            | 73.00            | 39.71          |
| 10.63            | 42.15            | 73.00            | 30.85          |
| 11.78            | 41.12            | 73.00            | 31.88          |
| 12.43            | 40.39            | 73.00            | 32.61          |

\* limit exceeded

## 5.3 Radiated Emissions Measurement

### 5.3.1 Radiated Emissions Data

- Below 1 GHz

|                       |   |
|-----------------------|---|
| EUT                   | Smart G-Scope / G-Scope G1 (S/N: N/A)               |
| Limit apply to        | FCC Part 15.109(b) Class A                          |
| Test Date             | August 12, 2015                                     |
| Environmental of test | (32.3 ± 0.3) °C, (59 ± 1) % R.H., (100.4 ± 0.1) kPa |
| Operating Condition   | Normal operating mode (Scope mode)(CL_AMC)          |
| Result                | Passed by 11.10 dB                                  |

### Radiated Emission Test Data

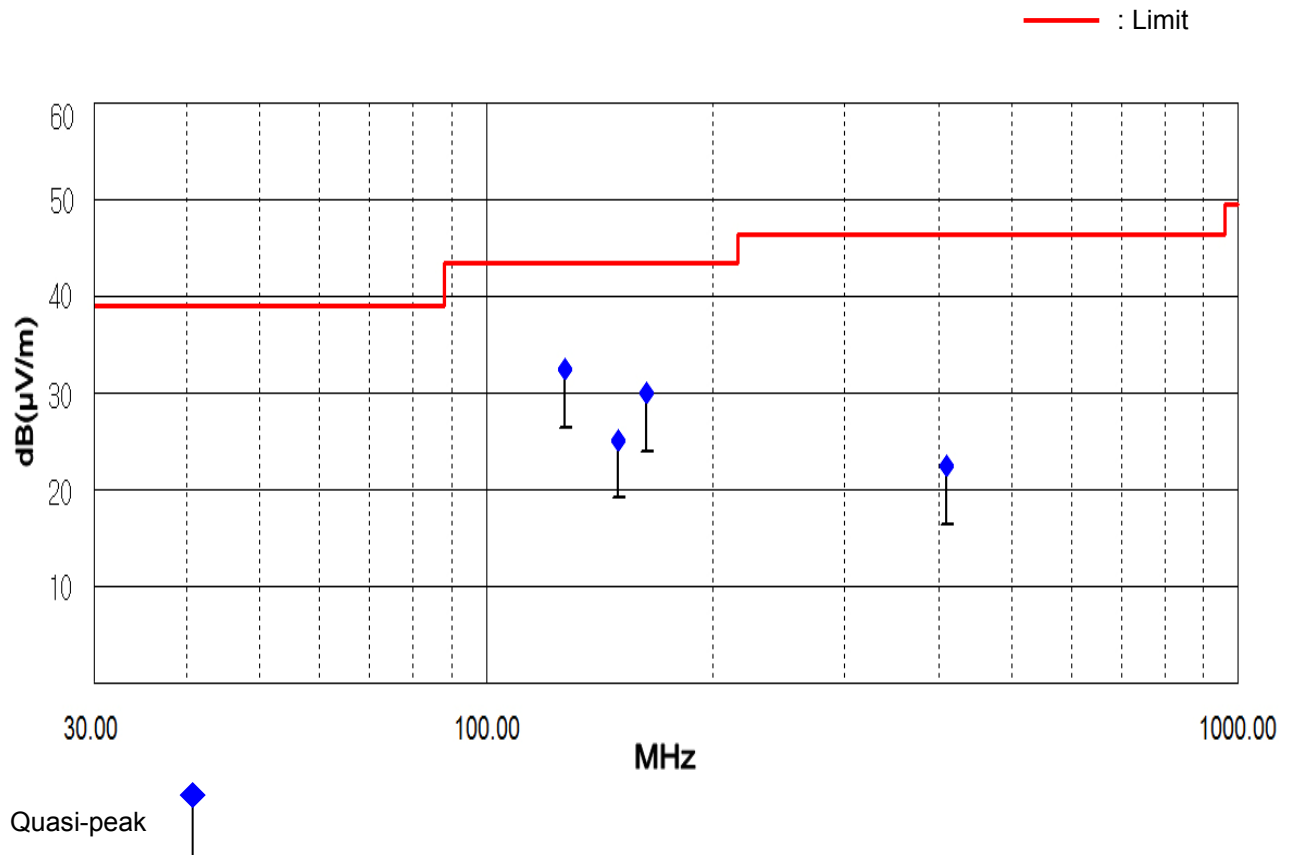
The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.  
Detector mode: CISPR Quasi-Peak mode (6 dB Bandwidth: 120 kHz)

| Frequency [MHz] | Reading [dB(μV)] | Polarization (*H/**V) | Ant. Factor [dB/m] | Cable Loss [dB(μV)] | Height [cm] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] |
|-----------------|------------------|-----------------------|--------------------|---------------------|-------------|-------------------|------------------|-------------|
| 127.48          | 19.99            | V                     | 10.90              | 1.51                | 115         | 32.40             | 43.50            | 11.10       |
| 150.00          | 10.56            | V                     | 12.87              | 1.67                | 120         | 25.10             | 43.50            | 18.40       |
| 163.45          | 15.27            | V                     | 12.96              | 1.77                | 125         | 30.00             | 43.50            | 13.50       |
| 409.99          | 3.31             | H                     | 16.16              | 2.93                | 140         | 22.40             | 46.44            | 24.04       |

#### NOTES:

1. \* H : Horizontal polarization , \*\* V : Vertical polarization
2. Result = Reading + Antenna factor + Cable loss
3. Margin = Limit - Result
4. The measurement was performed for the frequency range 30 MHz ~ 1 000 MHz according to the FCC Part 15.109(b) Class A.





- Above 1 GHz

|                       |   |
|-----------------------|---|
| EUT                   | Smart G-Scope / G-Scope G1 (S/N: N/A)               |
| Limit apply to        | FCC Part 15.109(b) Class A                          |
| Test Date             | August 14, 2015                                     |
| Environmental of test | (23.6 ± 0.0) °C, (48 ± 0) % R.H., (100.7 ± 0.0) kPa |
| Operating Condition   | Normal operating mode (Scope mode)(CL_AMC)          |
| Result                | Passed by 32.80 dB                                  |

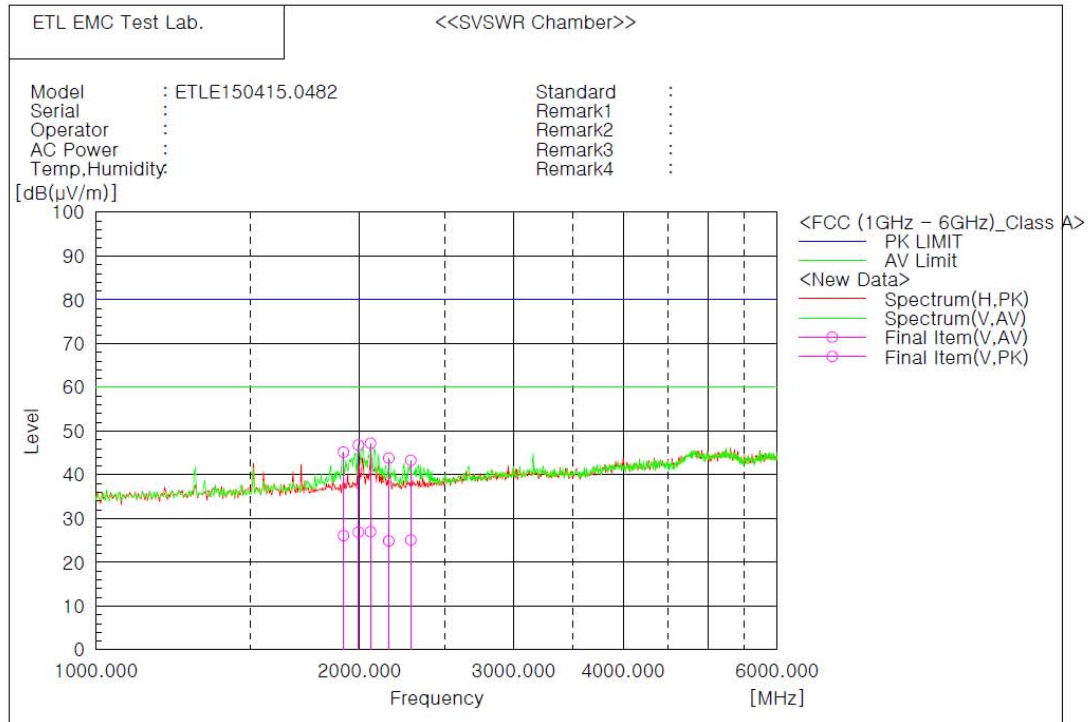
## Radiated Emission Test Data

The following data and graph shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Detector mode: CISPR Peak mode, Average mode

### NOTES:

1. Please see the measured data and graph in next page.
2. H : Horizontal polarization , V : Vertical polarization
3. The c.f value was included the antenna factor, cable loss and Amp. Gain.
4. Result value = Reading + c.f
5. Margin value = Limit - Result
6. The measurement was performed for the frequency range 1 GHz ~ 6 GHz according to FCC Part 15.109(b) Class A.
7. Upper frequency of measurement range: 5th harmonic of the highest frequency.



## Final Result

### — Vertical Polarization (AV)—

| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] |
|-----|-----------------|------------------|---------------|-------------------|------------------|-------------|
| 1   | 1917.080        | 38.4             | -12.3         | 26.1              | 60.0             | 33.9        |
| 2   | 1993.840        | 39.0             | -12.1         | 26.9              | 60.0             | 33.1        |
| 3   | 2058.480        | 38.8             | -11.8         | 27.0              | 60.0             | 33.0        |
| 4   | 2159.480        | 36.4             | -11.5         | 24.9              | 60.0             | 35.1        |
| 5   | 2288.760        | 36.0             | -10.9         | 25.1              | 60.0             | 34.9        |

### — Vertical Polarization (PK)—

| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] |
|-----|-----------------|------------------|---------------|-------------------|------------------|-------------|
| 1   | 1917.080        | 57.5             | -12.3         | 45.2              | 80.0             | 34.8        |
| 2   | 1993.840        | 58.9             | -12.1         | 46.8              | 80.0             | 33.2        |
| 3   | 2058.480        | 59.0             | -11.8         | 47.2              | 80.0             | 32.8        |
| 4   | 2159.480        | 55.3             | -11.5         | 43.8              | 80.0             | 36.2        |
| 5   | 2288.760        | 54.2             | -10.9         | 43.3              | 80.0             | 36.7        |

## 6. SAMPLE CALCULATION

### Sample Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor.  
The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - PA$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

PA\* = Preamplifier Factor

\* PA is only be used for the measuring frequency above 1 GHz.

$$dB(\mu V) = 20 \log_{10} (\mu V) : \text{Equation}$$

$$dB(\mu V) = dBm + 107$$

Example : @ 127.48 MHz

$$\text{Class A Limit} = 43.50 \text{ dB}(\mu V/m)$$

$$\text{Reading} = 19.99 \text{ dB}(\mu V)$$

$$\text{Antenna Factor + Cable Loss} = 10.90 + 1.51 = 12.41 \text{ dB}(\mu V/m)$$

$$\text{Total} = 32.40 \text{ dB}(\mu V/m)$$

$$\text{Margin} = 43.50 - 32.40 = 11.10 \text{ dB}$$

$$= 11.10 \text{ dB below Limit}$$

## 7. List of test equipments used for measurements

|                                     | Test Equipment     | Model      | Mfg.               | Serial No. | Cal. Date | Cal. Due Date |
|-------------------------------------|--------------------|------------|--------------------|------------|-----------|---------------|
| <input checked="" type="checkbox"/> | EMI Test Receiver  | ESVS 10    | R&S                | 835165/001 | 15.03.17  | 16.03.17      |
| <input checked="" type="checkbox"/> | EMI Test Receiver  | ESCS30     | R&S                | 847793/005 | 15.03.17  | 16.03.17      |
| <input checked="" type="checkbox"/> | EMI Test Receiver  | ESCI7      | R&S                | 100851     | 14.09.03  | 15.09.03      |
| <input checked="" type="checkbox"/> | Two-Line V-Network | ENV216     | R&S                | 101715     | 15.03.16  | 16.03.16      |
| <input checked="" type="checkbox"/> | Horn Antenna       | BBHA 9120D | Schwarzbeck        | 826        | 14.04.02  | 16.04.02      |
| <input checked="" type="checkbox"/> | Amplifier          | TK-PA18    | TESTEK.            | 120020     | 14.09.04  | 15.09.04      |
| <input checked="" type="checkbox"/> | LogBicon Antenna   | VULB9160   | Schwarzbeck        | 3164       | 15.06.08  | 17.06.08      |
| <input checked="" type="checkbox"/> | Turn-Table         | DS1200-S   | Innco Systems GmbH | 2740311    | N/A       | N/A           |
| <input checked="" type="checkbox"/> | Turn-Table         | TT 1.35 SI | SES                | -          | N/A       | N/A           |
| <input checked="" type="checkbox"/> | Antenna Master     | AM 4.5     | SES                | -          | N/A       | N/A           |



## Appendix A. FCC Label and Location

### Product Label Sample with FCC Label information

Following is a sample copy of the label that will be placed on the rear cabinet of the product.  
The FCC Label and compliance statement are marked in the product label.  
The warning statement and Information to the User are described in the user manual.

|  |            |
|--|------------|
| <b>Genie Tech Inc.</b>   |            |
| <b>Smart G-Scope</b>   |            |
| Model No. :  | G-Scope G1 |
| POWER :  | DC 5 V     |
| Serial No. :   | NONE       |
| <p>This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:<br/>(1) This device may not cause harmful interference, and<br/>(2) This device must accept any interference received, including interference that may cause undesired operation.</p> |            |
| <p>Manufacturer: Genie Tech Inc.<br/>Made in Korea</p>   |            |

### Label Location

The label shown shall be permanently affixed at a conspicuous location on the device and be readily visible to the user at the time purchase.(Labeling requirements per 2.925)



## Appendix B. Test Setup Photographs

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### Conducted Emission Test Setup



## **Appendix B. Test Setup Photographs**

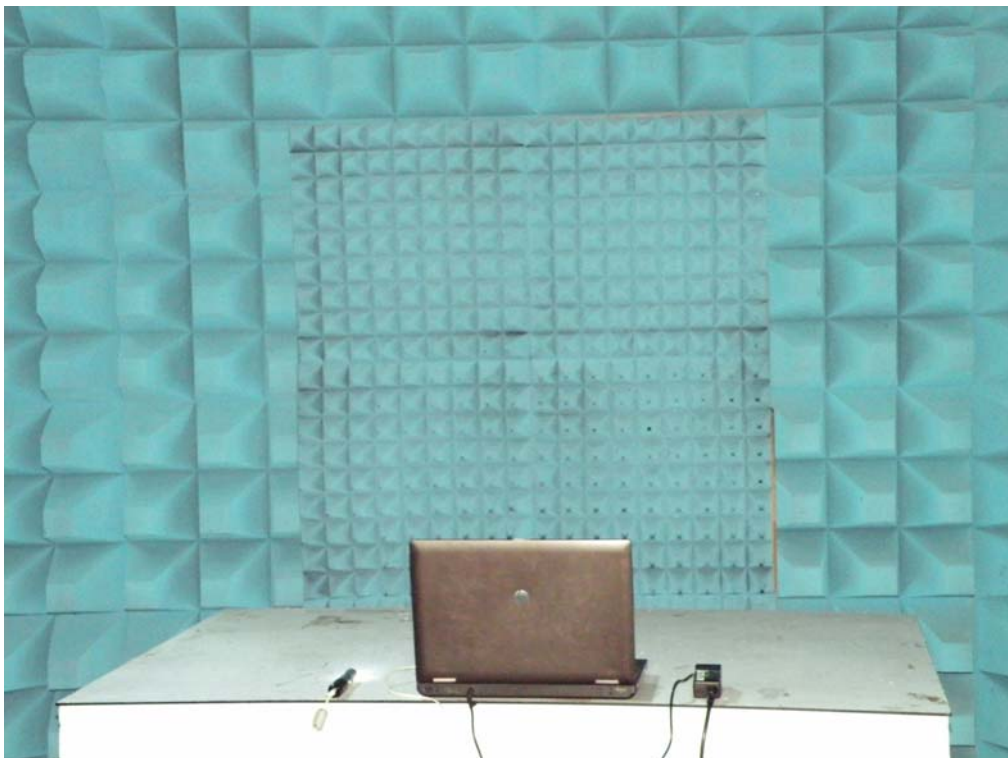
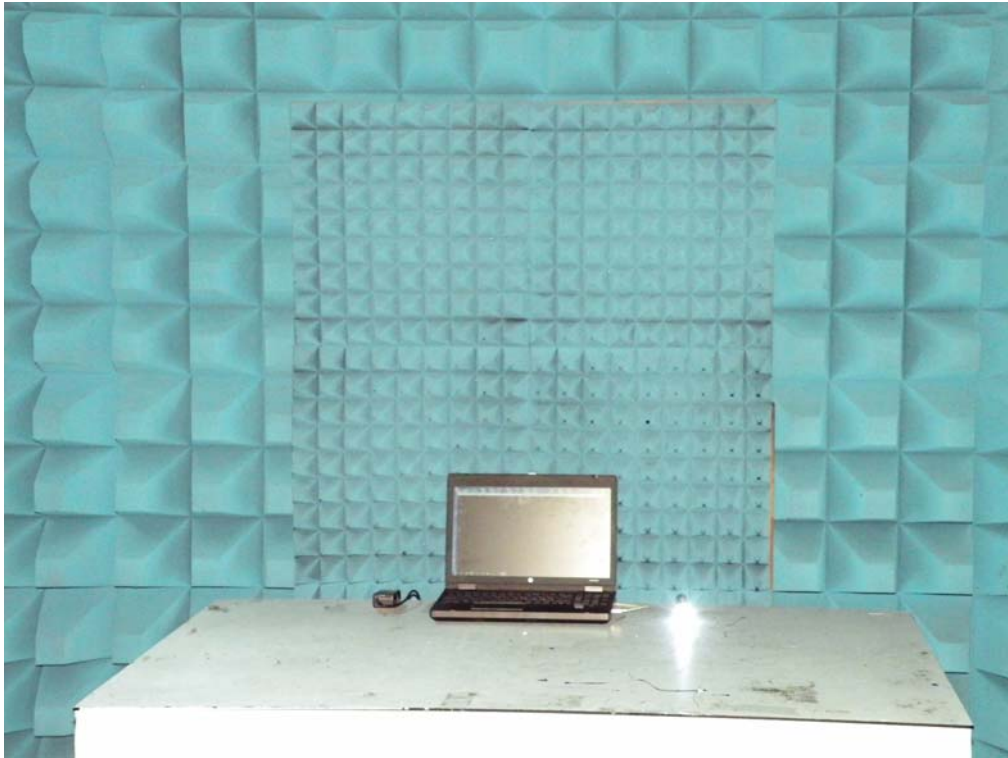
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### **Radiated Emission Test Setup (Below 1 GHz)**





**Radiated Emission Test Setup (Above 1 GHz)**



## Appendix C. External Photographs

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### Front view of EUT



### Rear view of EUT





## **Appendix C. External Photographs**

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### **View of Micro USB port**



### **View of switch**



**View of USB cable**

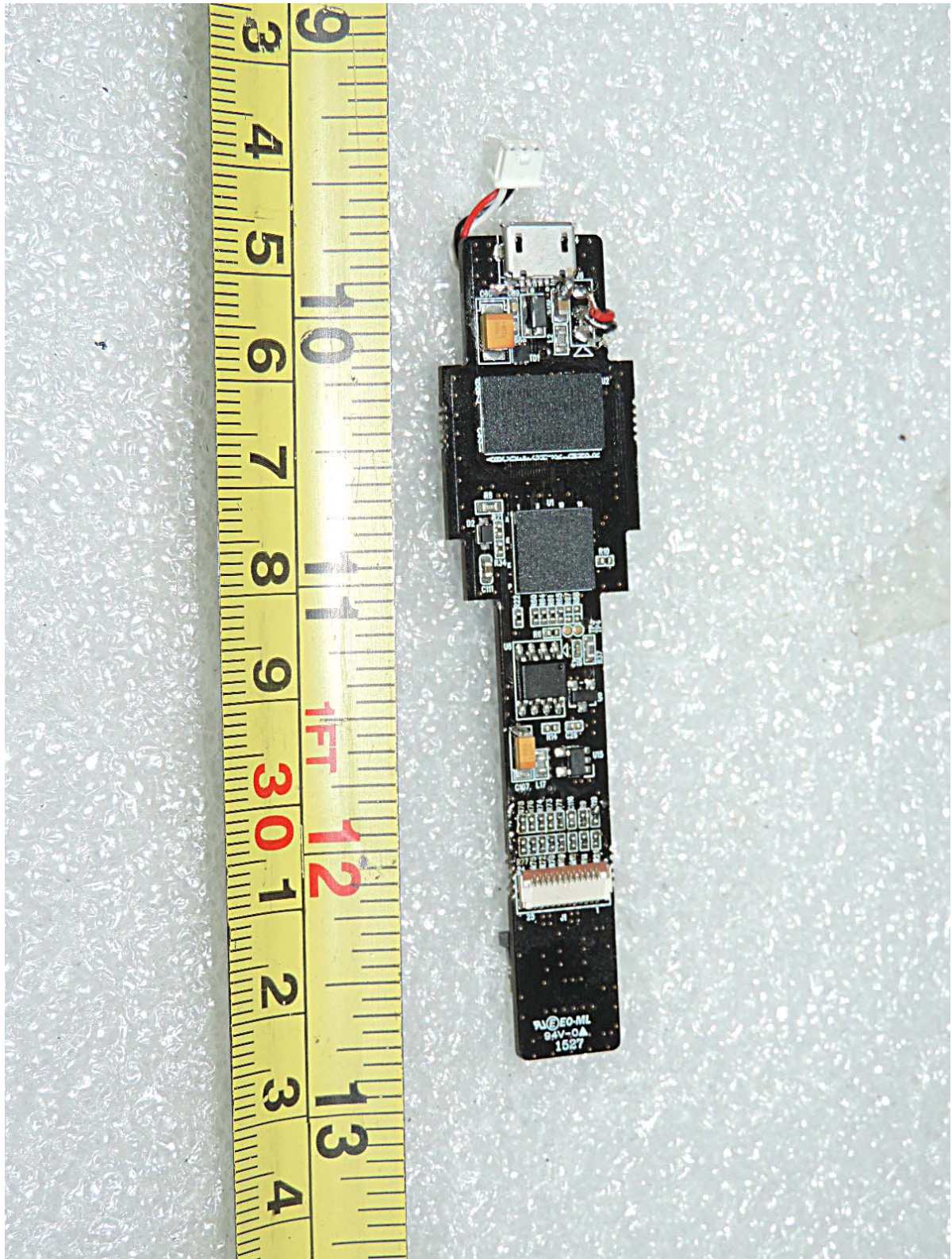


**Inside view of EUT**



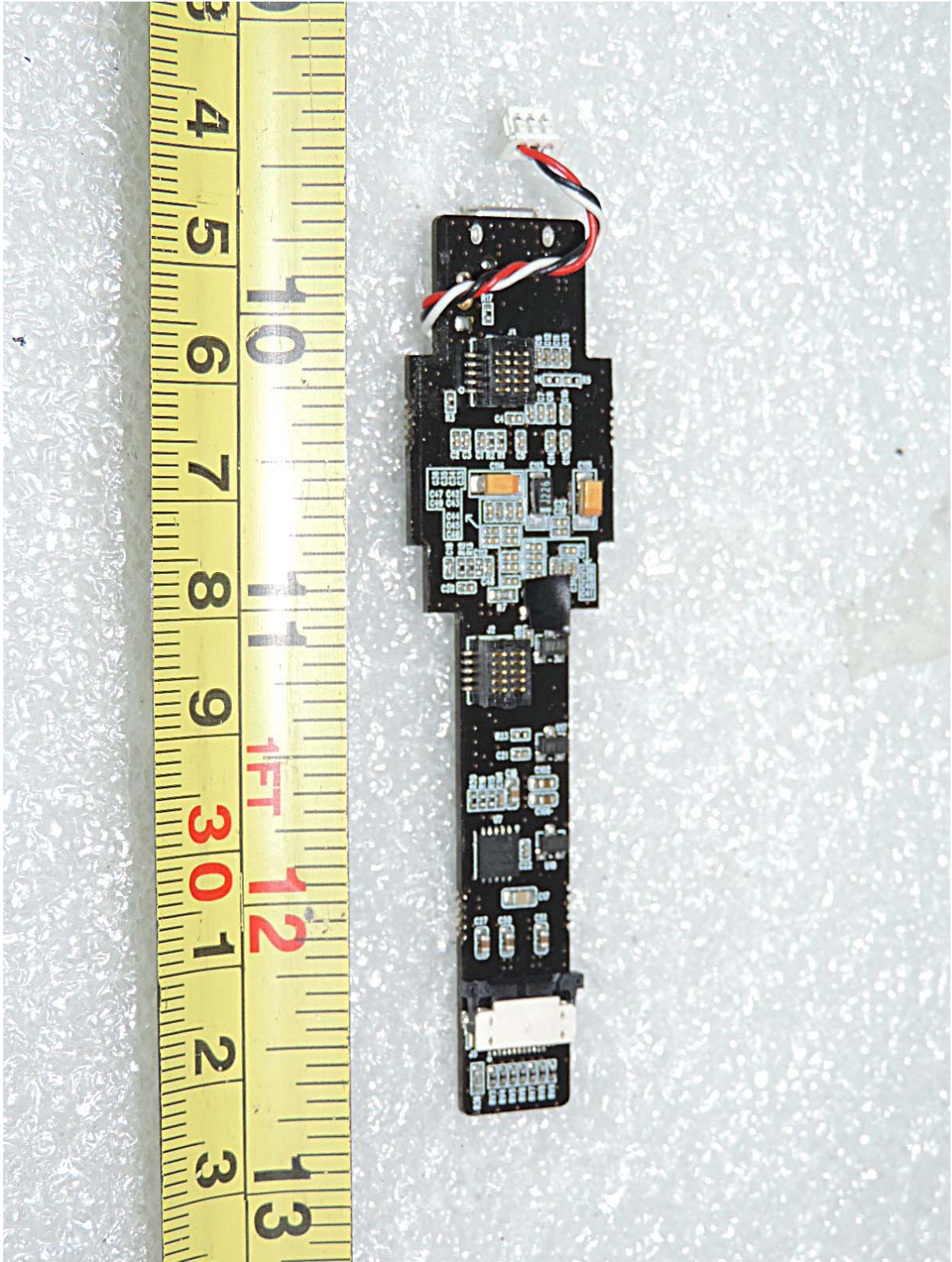


**Top side view of main board**



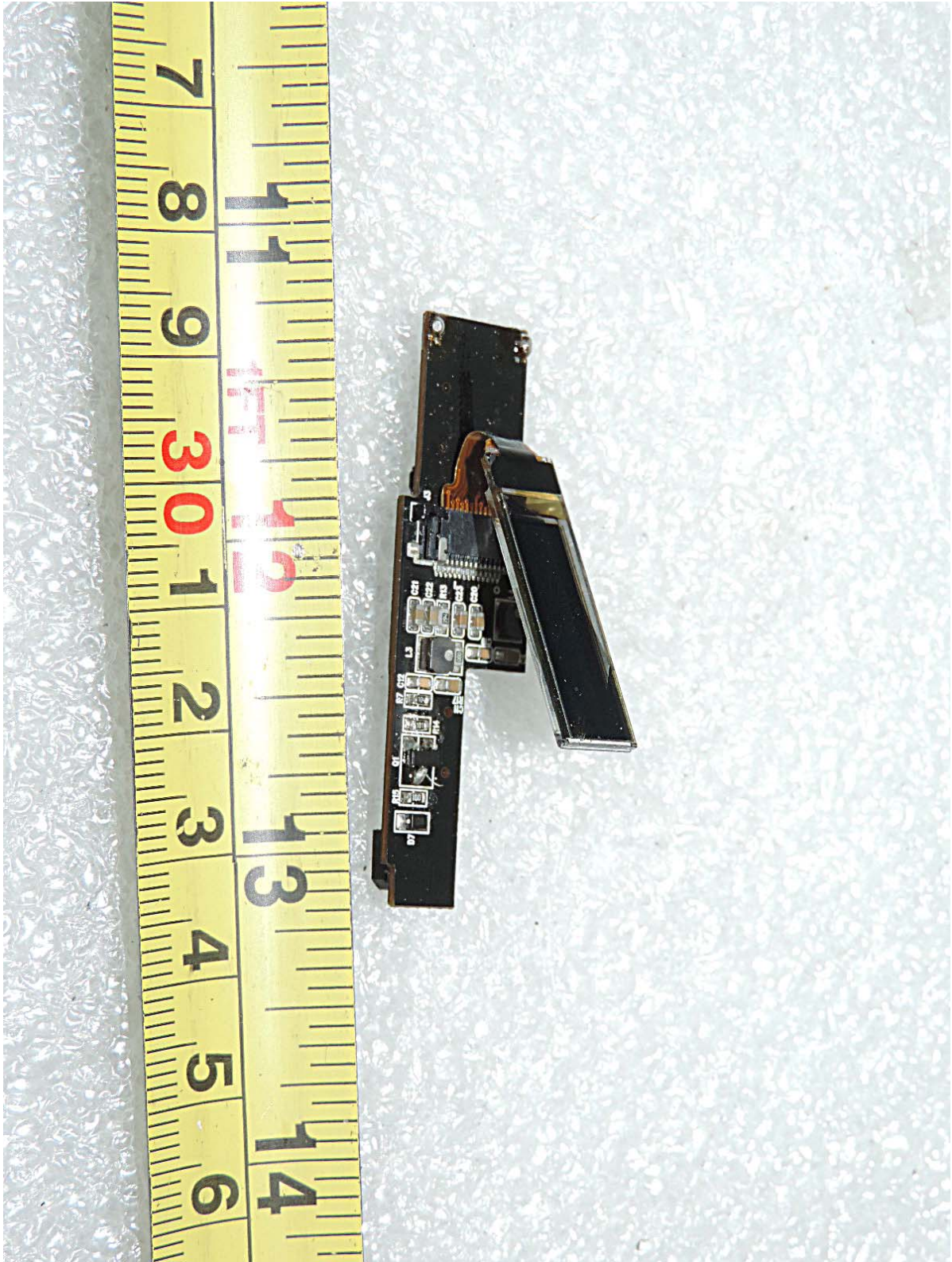


**Bottom side view of main board**



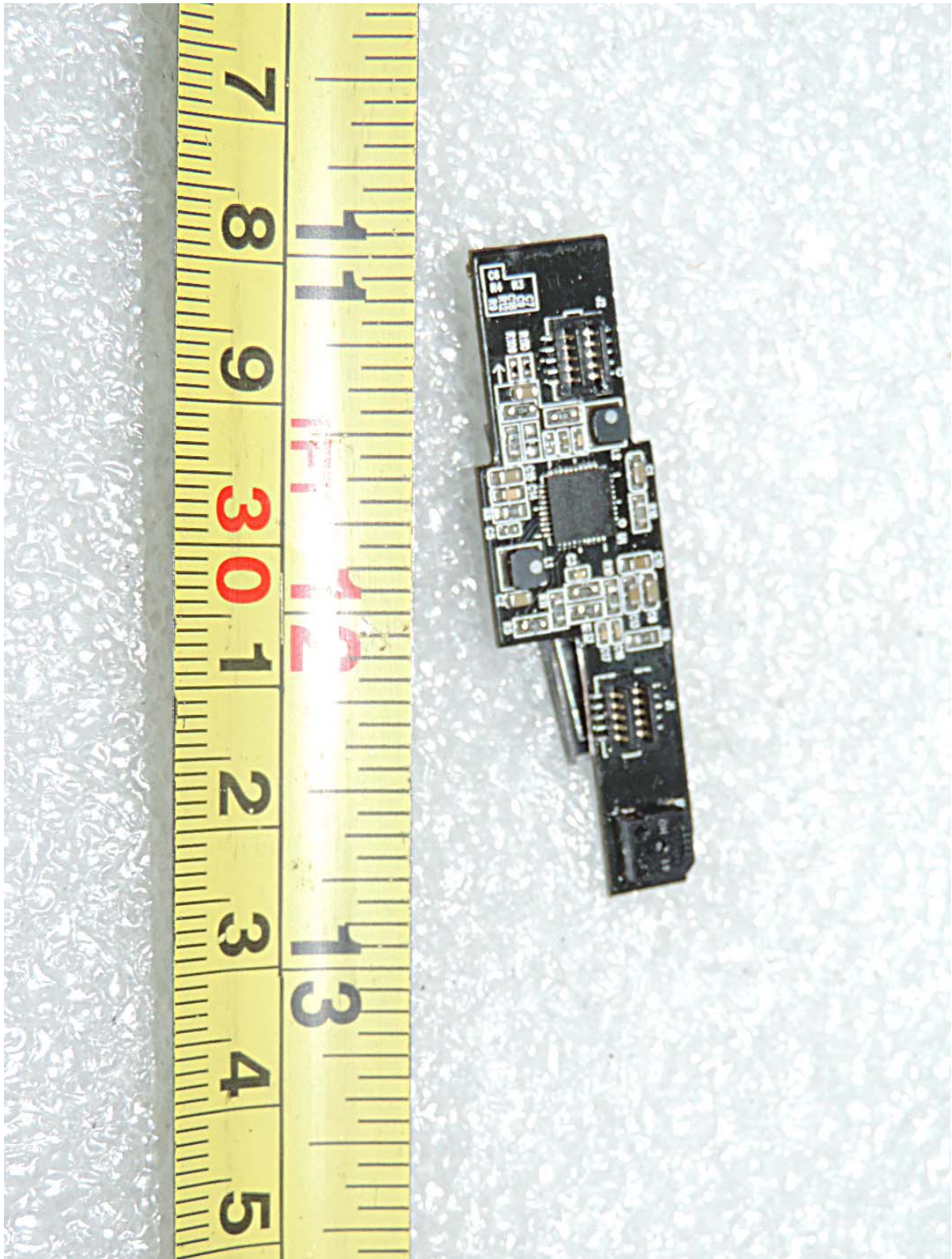


**Top side view of LCD board**





**Bottom side view of LCD board**



**Top side view of LED board**





**Bottom side view of LED board**





**Top side view of OSD board**

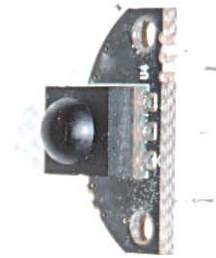




**Bottom side view of OSD board**



**Top side view of USB board**





## Appendix D. Internal Photographs

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### Bottom side view of USB board





**Top side view of LENS**





**Bottom side view of LENS**

