# FCC Part 15, Subpart B Test Report

## For

| | |
|---|---|
| **Applicant Name:** | **TCL Communication Ltd.** |
| Address: | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |
| EUT Name: | RayNeo X2 |
| Model Number: | ARGT78 |
| Series Model Number: | Refer to section 2 |

## Issued By

| | |
|---|---|
| **Company Name:** | **BTF Testing Lab (Shenzhen) Co., Ltd.** |
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Report Number: | BTF230718E00501 |
| Test Standards: | 47 CFR Part 15, Subpart B |
| Test Conclusion: | Pass |
| FCC ID: | 2ACCJN067 |
| Test Date: | 2023-05-10 to 2023-07-26 |
| Date of Issue: | 2023-07-26 |
| Prepared By: | Elma.Yang<br>elma.yang/ Project Engineer |
| Date: | 2023-07-26 |
| Approved By: | Ryan.CJ<br>Ryan.CJ/ EMC Manager |
| Date: | 2023-07-26 |

*Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.*

| Revision History | | |
|---|---|---|
| Version | Issue Date | Revisions Content |
| R_V0 | 2023-07-26 | Original |
| | | |
| *Note: Once the revision has been made, then previous versions reports are invalid.* | | |



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F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

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# 1 Introduction

## 1.1 Identification of Testing Laboratory

| | |
|---|---|
| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd. |
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |

## 1.2 Identification of the Responsible Testing Location

| | |
|---|---|
| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd. |
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| FCC Registration Number: | 518915 |
| Designation Number: | CN1330 |

## 1.3 Announcement

(1) The test report reference to the report template version v0.
(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
(3) The test report is invalid if there is any evidence and/or falsification.
(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

# 2 Product Information

## 2.1 Application Information

| | |
|---|---|
| Company Name: | TCL Communication Ltd. |
| Address: | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |

## 2.2 Manufacturer Information

| | |
|---|---|
| Company Name: | Falcon innovations Technology (Shenzhen) Co., Ltd |
| Address: | 5th Floor, Building D4, TCL International E City, no.1001 zhongshan Yuan Road, Nanshan District, Shenzhen,China |

## 2.3 Factory Information

| | |
|---|---|
| Company Name: | TCL Mobile Communication Co., LTD |
| Address: | No.86, Hechang 7th West Road ,Zhong Kai Hi-tech Development District, Hui Zhou, Guang Dong |

## 2.4 General Description of Equipment under Test (EUT)

| | |
|---|---|
| EUT Name: | TCL RayNeo X2 |
| Test Model Number: | ARGT78 |
| Series Model Number: | / |

## 2.5 Technical Information

| | |
|---|---|
| Power Supply: | DC 3.85V from battery |
| Power Adaptor: | / |



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# 3 Summary of Test Results

## 3.1 Test Standards

| |
|---|
| The tests were performed according to following standards:<br>**47 CFR Part 15, Subpart B:** Unintentional Radiators |

## 3.2 Uncertainty of Test

| Item | Measurement Uncertainty |
|---|---|
| Conducted Emission (150 kHz-30 MHz) | ±2.64dB |
| All emissions, radiated <1GHz/radiated >1GHz | ±4.12dB/4.16dB |
| The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

## 3.3 Summary of Test Result

| Item | Standard | Requirement | Result |
|---|---|---|---|
| Conducted emissions on AC mains | 47 CFR Part 15, Subpart B | 15.107, Class B | Pass |
| Radiated emissions (Below 1GHz) | 47 CFR Part 15, Subpart B | 15.109, Class B | Pass |
| Radiated emissions (Above 1GHz) | 47 CFR Part 15, Subpart B | 15.109, Class B | Pass |



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# 4 Test Configuration

## 4.1 Test Equipment List

| Conducted emissions on AC mains | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 00953 | 2022-11-24 | 2023-11-23 |
| Coaxial Switcher | SCHWARZBECK | CX210 | CX210 | 2022-11-24 | 2023-11-23 |
| V-LISN | SCHWARZBECK | NSLK 8127 | 01073 | 2022-11-24 | 2023-11-23 |
| LISN | AFJ | LS16/110VAC | 16010020076 | 2023-02-23 | 2024-02-22 |
| EMI Receiver | ROHDE&SCHWARZ | ESCI3 | 101422 | 2022-11-24 | 2023-11-23 |

| Radiated emissions (Below 1GHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Coaxial cable Multiflex 141 | Schwarzbeck | N/SMA 0.5m | 517386 | 2023-03-24 | 2024-03-23 |
| Preamplifier | SCHWARZBECK | BBV9744 | 00246 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-10m | 21101566 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-10m | 21101570 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-1m | 21101568 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-1m | 21101576 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-2.5m | 21101573 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 01157 | 2021-11-28 | 2023-11-27 |
| EMI TEST RECEIVER | ROHDE&SCHWARZ | ESCI7 | 101032 | 2022-11-24 | 2023-11-23 |
| SIGNAL ANALYZER | ROHDE&SCHWARZ | FSQ40 | 100010 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Broadband Preamplilifier | SCHWARZBECK | BBV9718D | 00008 | 2023-03-24 | 2024-03-23 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2597 | 2022-05-22 | 2024-05-21 |
| EZ_EMC | Frad | FA-03A2 RE+ | / | / | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Log periodic antenna | SCHWARZBECK | VULB 9168 | 01328 | 2021-11-28 | 2023-11-27 |

| Radiated emissions (Above 1GHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Coaxial cable Multiflex 141 | Schwarzbeck | N/SMA 0.5m | 517386 | 2023-03-24 | 2024-03-23 |
| Preamplifier | SCHWARZBECK | BBV9744 | 00246 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-10m | 21101566 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-10m | 21101570 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-1m | 21101576 | 2022-11-24 | 2023-11-23 |



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| | | | | | |
|---|---|---|---|---|---|
| RE Cable | REBES Talent | UF2-NMNM-2.5m | 21101573 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 01157 | 2021-11-28 | 2023-11-27 |
| EMI TEST RECEIVER | ROHDE&SCHWARZ | ESCI7 | 101032 | 2022-11-24 | 2023-11-23 |
| SIGNAL ANALYZER | ROHDE&SCHWARZ | FSQ40 | 100010 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Broadband Preamplilifier | SCHWARZBECK | BBV9718D | 00008 | 2023-03-24 | 2024-03-23 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2597 | 2022-05-22 | 2024-05-21 |
| EZ_EMC | Frad | FA-03A2 RE+ | / | / | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Log periodic antenna | SCHWARZBECK | VULB 9168 | 01328 | 2021-11-28 | 2023-11-27 |



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## 4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

## 4.3 Test Modes

| No. | Test Modes | Radiated emission | Conducted emission |
|---|---|---|---|
| TM1 | On, Camera | ※ | ※ |
| TM2 | On, Video play | / | / |
| TM3 | Standby | / | / |
| TM4 | Charging | / | / |

Note: Mode 1 ※ is worst case mode tests, so this report only reflected the worst mode in this part.
The maximum internal operating frequency is less than 300MHz



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# 5 Emission Test Results (EMI)

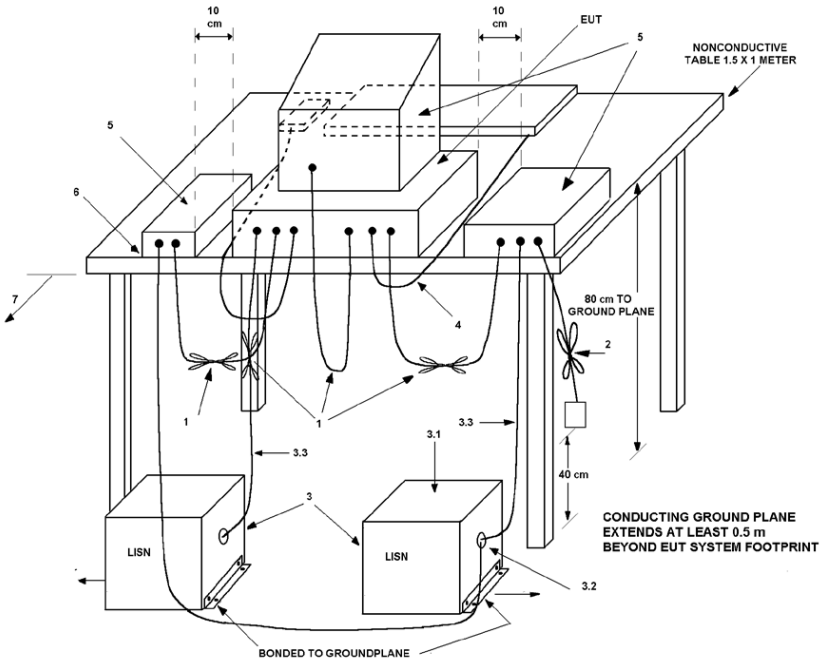
## 5.1 Conducted emissions on AC mains

| | |
|---|---|
| Test Requirement: | 15.107, Class B |
| Test Method: | ANSI C63.4 |
| Test Limit: | **Frequency of emission (MHz)** / **Conducted limit (dBμV)** – **Quasi-peak** / **Average**<br>0.15-0.5: 66 to 56* / 56 to 46*<br>0.5-5: 56 / 46<br>5-30: 60 / 50<br>*Decreases with the logarithm of the frequency. |
| Procedure: | An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.<br>Remark: Level= Read Level+ Cable Loss+ LISN Factor |

### 5.1.1 E.U.T. Operation:

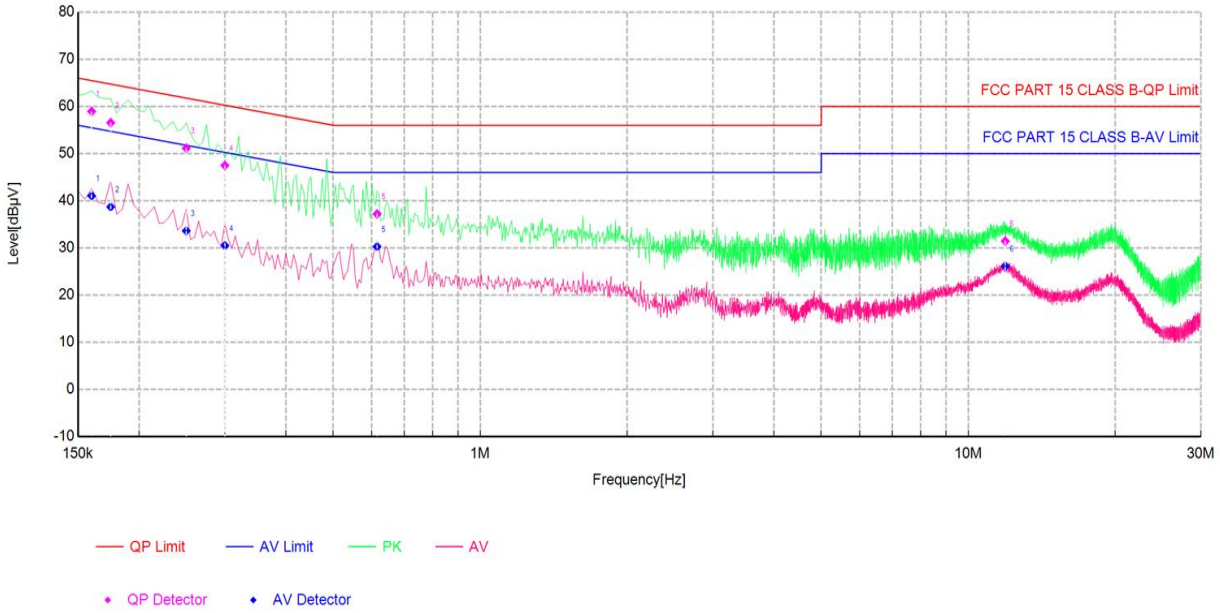
| Operating Environment: | |
|---|---|
| Temperature: | 24.1 °C |
| Humidity: | 48.7 % |
| Atmospheric Pressure: | 1010 mbar |

### 5.1.2 Test Setup Diagram:



### 5.1.3 Test Data:

TM1 / Line: Line




| Final Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Factor[dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Phase | Verdict |
| 1 | 0.1600 | 10.05 | 58.94 | 65.46 | 6.52 | 41.03 | 55.46 | 14.43 | L | PASS |
| 2 | 0.1750 | 10.14 | 56.55 | 64.72 | 8.17 | 38.70 | 54.72 | 16.02 | L | PASS |
| 3 | 0.2500 | 10.41 | 51.13 | 61.76 | 10.63 | 33.63 | 51.76 | 18.13 | L | PASS |
| 4 | 0.3000 | 10.53 | 47.49 | 60.24 | 12.75 | 30.49 | 50.24 | 19.75 | L | PASS |
| 5 | 0.6150 | 10.25 | 37.19 | 56.00 | 18.81 | 30.27 | 46.00 | 15.73 | L | PASS |
| 6 | 11.9150 | 10.28 | 31.44 | 60.00 | 28.56 | 26.11 | 50.00 | 23.89 | L | PASS |



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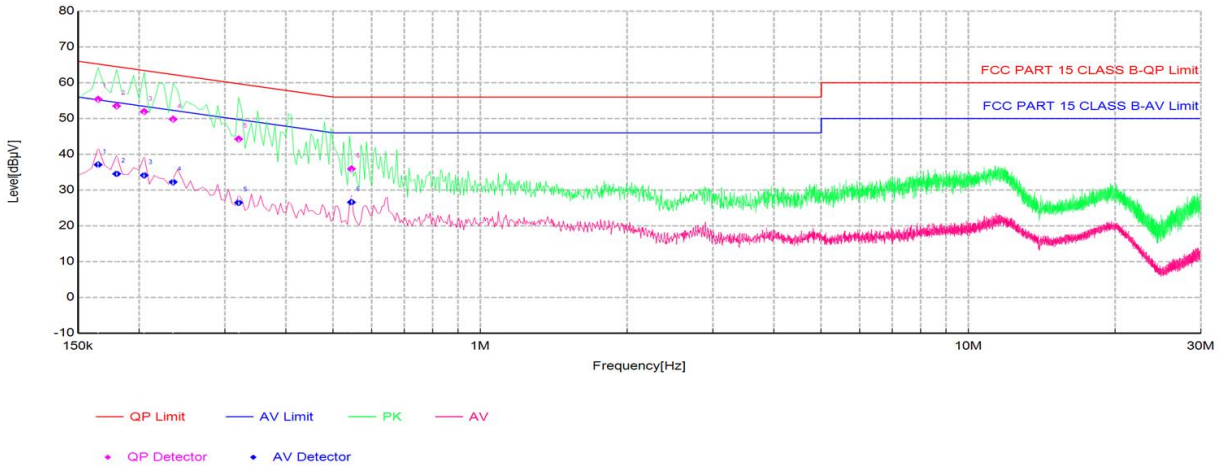
TM1 / Line: Neutral




| Final Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Factor[dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Phase | Verdict |
| 1 | 0.1650 | 10.08 | 55.35 | 65.21 | 9.86 | 37.09 | 55.21 | 18.12 | N | PASS |
| 2 | 0.1800 | 10.18 | 53.50 | 64.49 | 10.99 | 34.54 | 54.49 | 19.95 | N | PASS |
| 3 | 0.2050 | 10.33 | 51.92 | 63.41 | 11.49 | 34.14 | 53.41 | 19.27 | N | PASS |
| 4 | 0.2350 | 10.37 | 49.80 | 62.27 | 12.47 | 32.25 | 52.27 | 20.02 | N | PASS |
| 5 | 0.3200 | 10.45 | 44.26 | 59.71 | 15.45 | 26.49 | 49.71 | 23.22 | N | PASS |
| 6 | 0.5450 | 10.27 | 35.92 | 56.00 | 20.08 | 26.60 | 46.00 | 19.40 | N | PASS |



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## 5.2 Radiated emissions (Below 1GHz)

| | |
|---|---|
| Test Requirement: | 15.109, Class B |
| Test Method: | ANSI C63.4 |
| Test Limit: | Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values: |

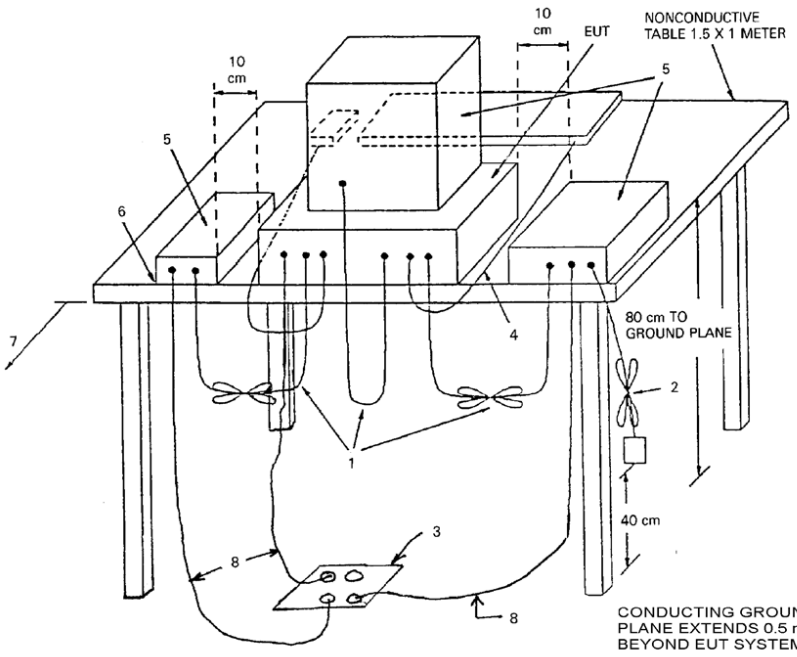
| Frequency of emission (MHz) | Field strength @3m | | Field strength @10m | |
|---|---|---|---|---|
| | (uV/m) | (dBuV/m) | (uV/m) | (dBuV/m) |
| 30 – 88 | 100 | 40 | 30 | 29.5 |
| 88 – 216 | 150 | 43.5 | 45 | 33.1 |
| 216 – 960 | 200 | 46 | 60 | 35.6 |
| Above 960 | 500 | 54 | 150 | 43.5 |

| | |
|---|---|
| Procedure: | An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.<br>Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor |

### 5.2.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 24.1 °C |
| Humidity: | 48.7 % |
| Atmospheric Pressure: | 1010 mbar |

### 5.2.2 Test Setup Diagram:



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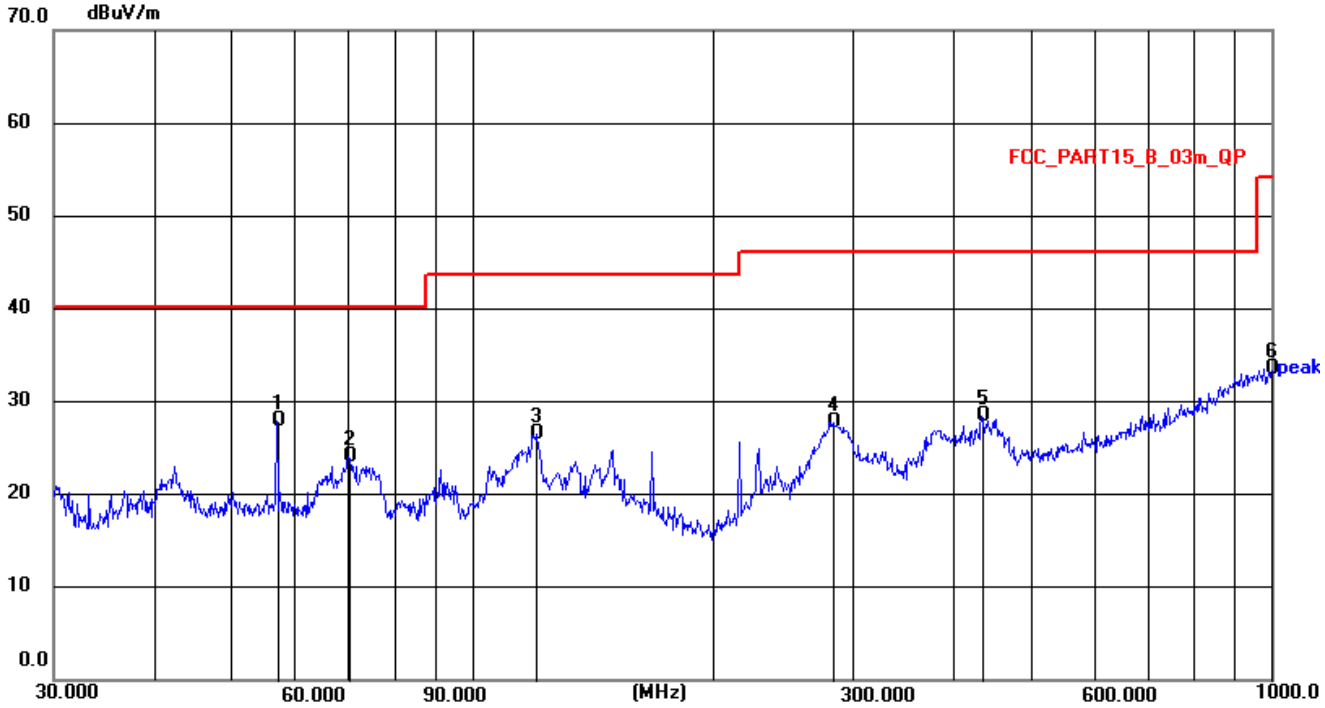
### 5.2.3 Test Data:

TM1 / Polarization: Horizontal




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 * | 56.9912 | 13.81 | 14. 12 | 27.93 | 40.00 | 12.07 | QP | | | P | |
| 2 | 70.0903 | 11.76 | 12.33 | 24.09 | 40.00 | 15.91 | QP | | | P | |
| 3 | 120.2766 | 12.92 | 13.52 | 26.44 | 43.50 | 17.06 | QP | | | P | |
| 4 | 282.9852 | 13.26 | 14.46 | 27.72 | 46.00 | 18.28 | QP | | | P | |
| 5 | 434.0651 | 9.81 | 18.57 | 28.38 | 46.00 | 17.62 | QP | | | P | |
| 6 | 1000.0000 | 6.55 | 27.00 | 33.55 | 54.00 | 20.45 | QP | | | P | |



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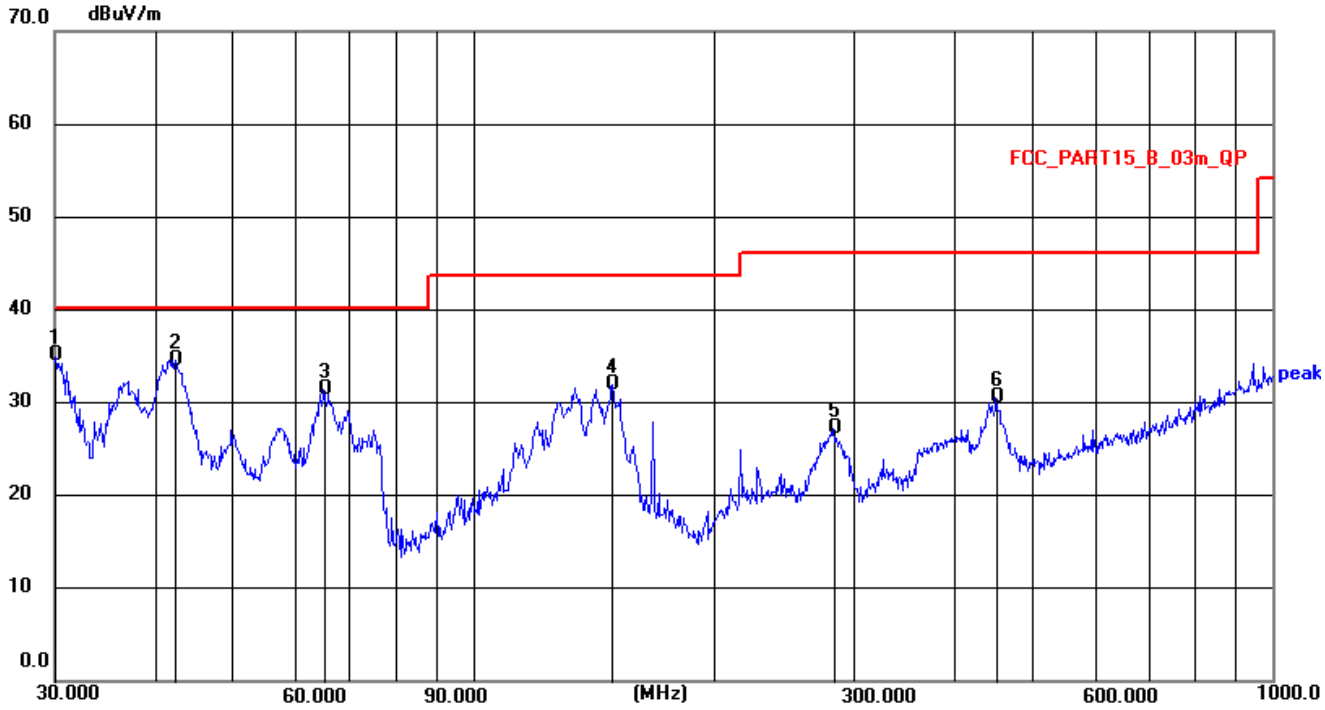
TM1 / Polarization: Vertical




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 * | 30.0000 | 22.71 | 12.44 | 35. 15 | 40.00 | 4.85 | QP | | | P | |
| 2 | 42.4508 | 20.04 | 14.56 | 34.60 | 40.00 | 5.40 | QP | | | P | |
| 3 | 65. 1145 | 18.65 | 12.70 | 31.35 | 40.00 | 8.65 | QP | | | P | |
| 4 | 149.4857 | 17.52 | 14.36 | 31.88 | 43.50 | 11.62 | QP | | | P | |
| 5 | 281.9946 | 12.52 | 14.70 | 27.22 | 46.00 | 18.78 | QP | | | P | |
| 6 | 451. 1350 | 11.88 | 18.60 | 30.48 | 46.00 | 15.52 | QP | | | P | |



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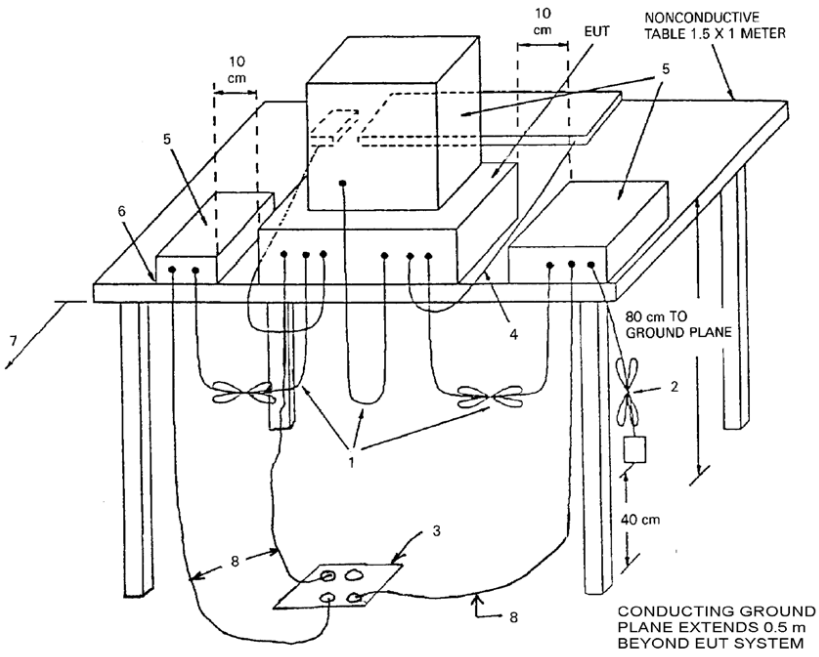
## 5.3 Radiated emissions (Above 1GHz)

| | |
|---|---|
| Test Requirement: | 15.109, Class B |
| Test Method: | ANSI C63.4 |
| Test Limit: | **Frequency of emission (MHz)** / **Field strength @3m**: **Average (uV/m)** 500; **Average (dBuV/m)** 54; **Peak (dBuV/m)** 74 (Above 1GHz) |
| Procedure: | An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.<br>Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor |

### 5.3.1 E.U.T. Operation:

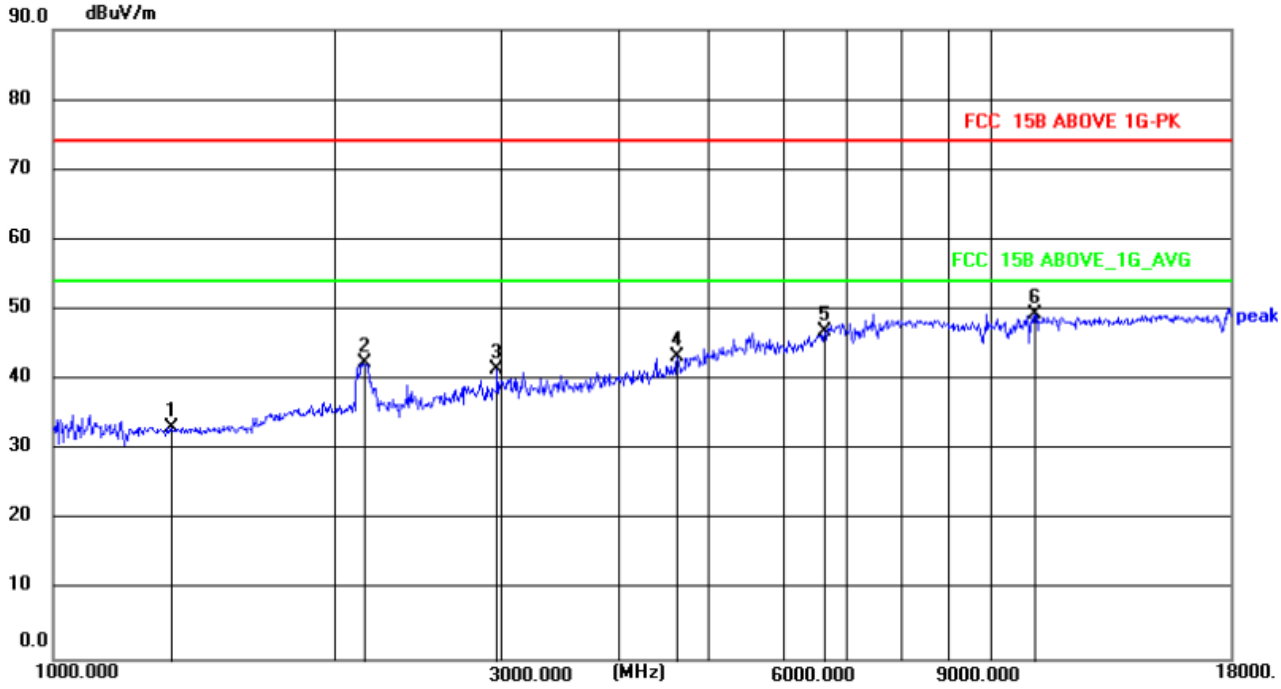
| Operating Environment: | |
|---|---|
| Temperature: | 22.2 °C |
| Humidity: | 54.7 % |
| Atmospheric Pressure: | 1010 mbar |

### 5.3.2 Test Setup Diagram:



### 5.3.3 Test Data:

TM1 / Polarization: Horizontal




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1336.686 | 48.34 | -15. 16 | 33. 18 | 74.00 | 40.82 | peak | 200 | 105 | P |
| 2 | 2144.206 | 53.99 | -11.61 | 42.38 | 74.00 | 31.62 | peak | 200 | 125 | P |
| 3 | 2975.872 | 49.96 | -8.45 | 41.51 | 74.00 | 32.49 | peak | 200 | 345 | P |
| 4 | 4629.621 | 48.53 | -5. 15 | 43.38 | 74.00 | 30.62 | peak | 200 | 147 | P |
| 5 | 6644.381 | 45.48 | 1.53 | 47.01 | 74.00 | 26.99 | peak | 200 | 135 | P |
| 6 * | 11169.327 | 40.48 | 8.91 | 49.39 | 74.00 | 24.61 | peak | 200 | 169 | P |



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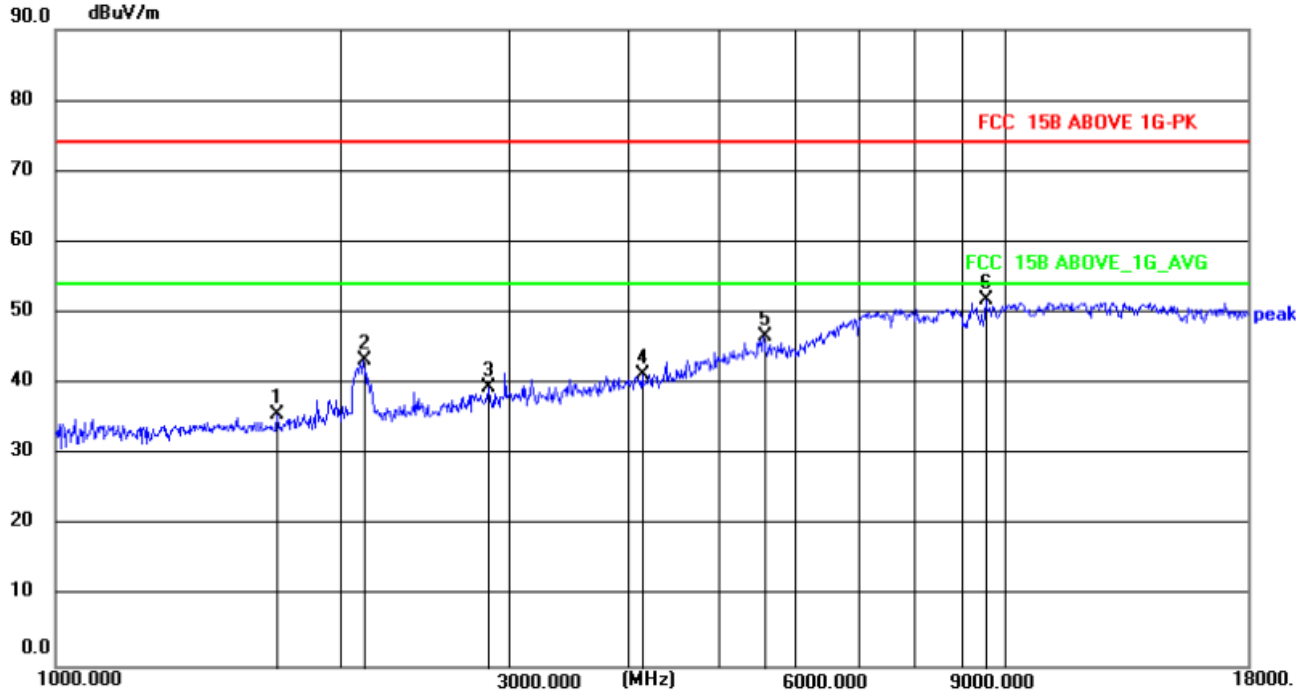
TM1 / Polarization: Vertical




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1714.880 | 49.39 | -13.81 | 35.58 | 74.00 | 38.42 | peak | 100 | 124 | P |
| 2 | 2109.779 | 55.01 | -11.69 | 43.32 | 74.00 | 30.68 | peak | 100 | 196 | P |
| 3 | 2858.683 | 48.49 | -8.99 | 39.50 | 74.00 | 34.50 | peak | 100 | 175 | P |
| 4 | 4149.260 | 47.57 | -6.30 | 41.27 | 74.00 | 32.73 | peak | 100 | 136 | P |
| 5 | 5576.800 | 48.95 | -2.31 | 46.64 | 74.00 | 27.36 | peak | 100 | 179 | P |
| 6 * | 9558.017 | 46.90 | 4.87 | 51.77 | 74.00 | 22.23 | peak | 100 | 135 | P |



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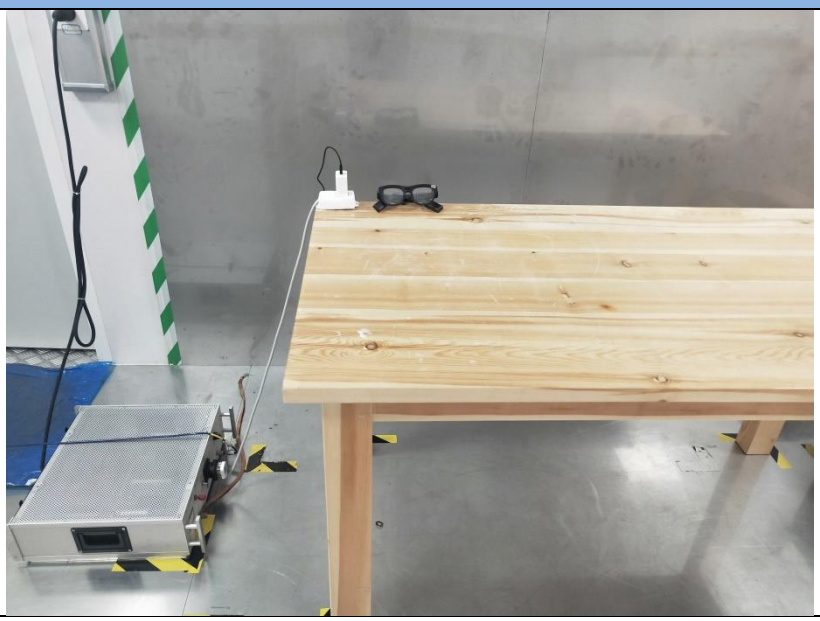
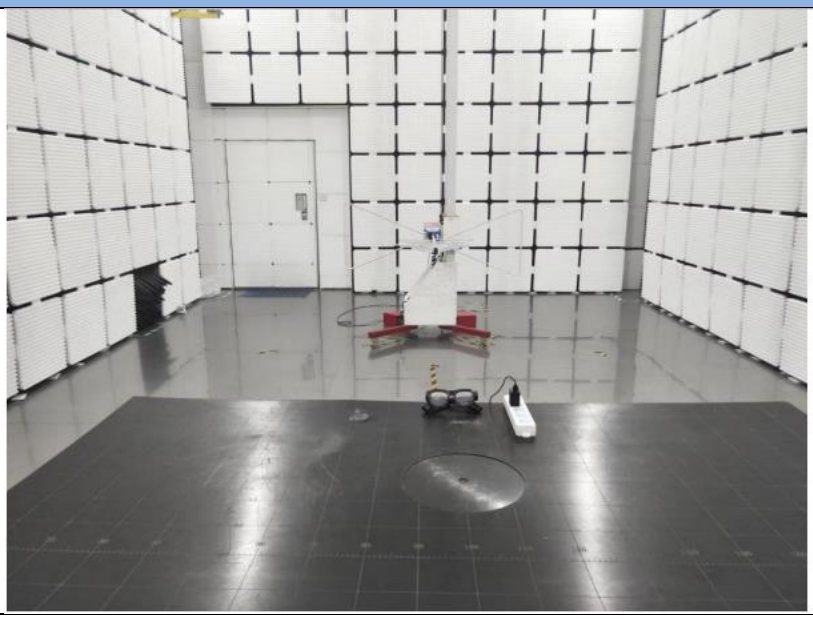
# 6 Test Setup Photos

| Conducted emissions on AC mains |
| --- |
|  |

| Radiated emissions (Below 1GHz) |
| --- |
|  |



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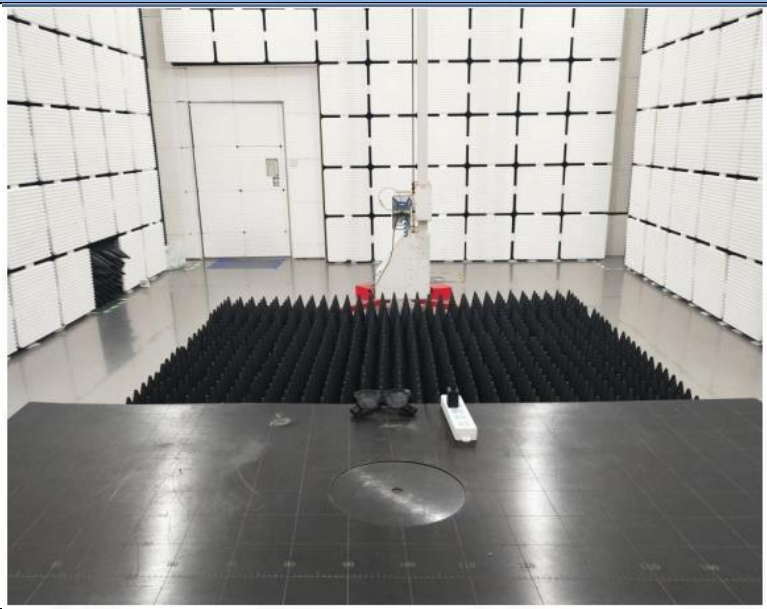
| Radiated emissions (Above 1GHz) |
| --- |
|  |



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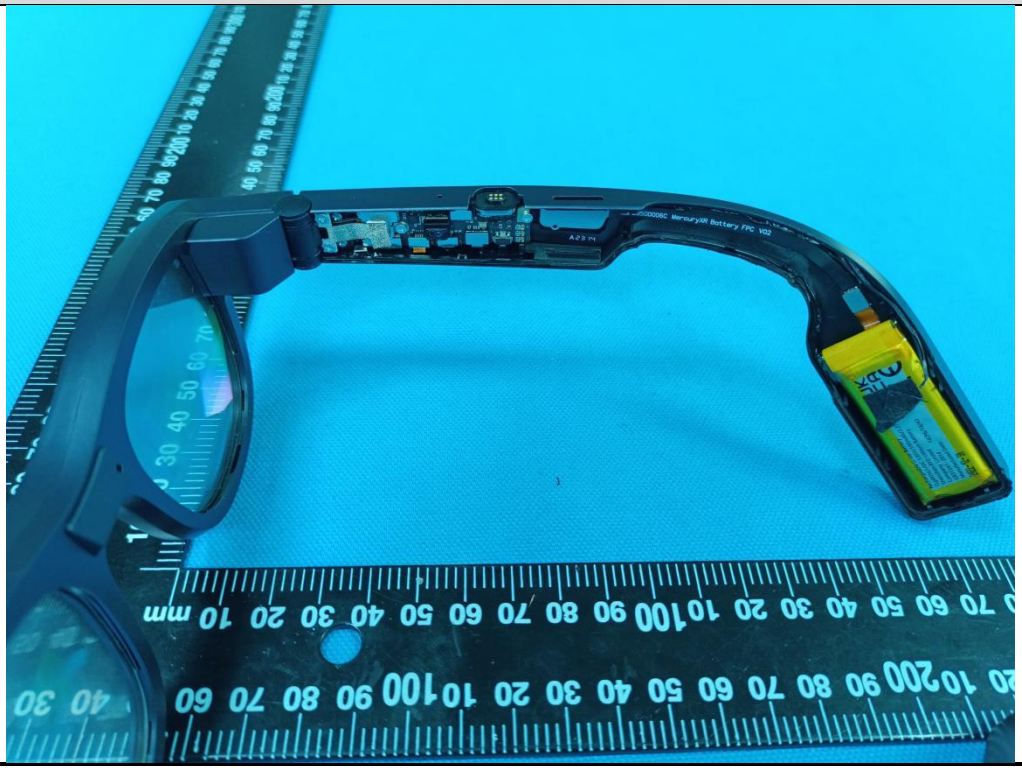
# 7 EUT Constructional Details (EUT Photos)

| External |
| --- |
|  |

| EUT Photo |
| --- |
|  |

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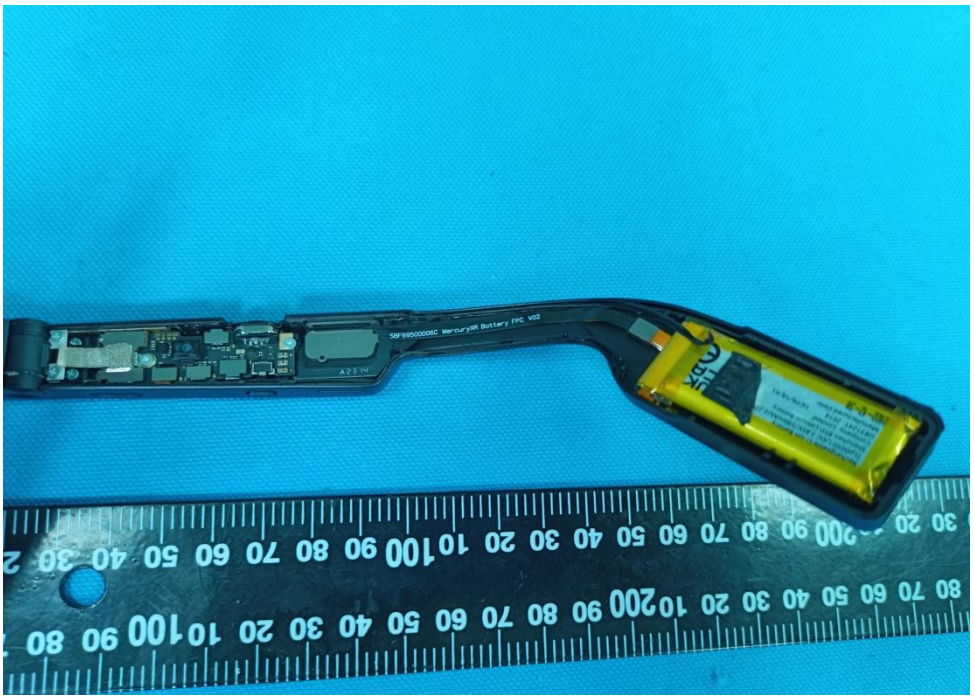
|  |

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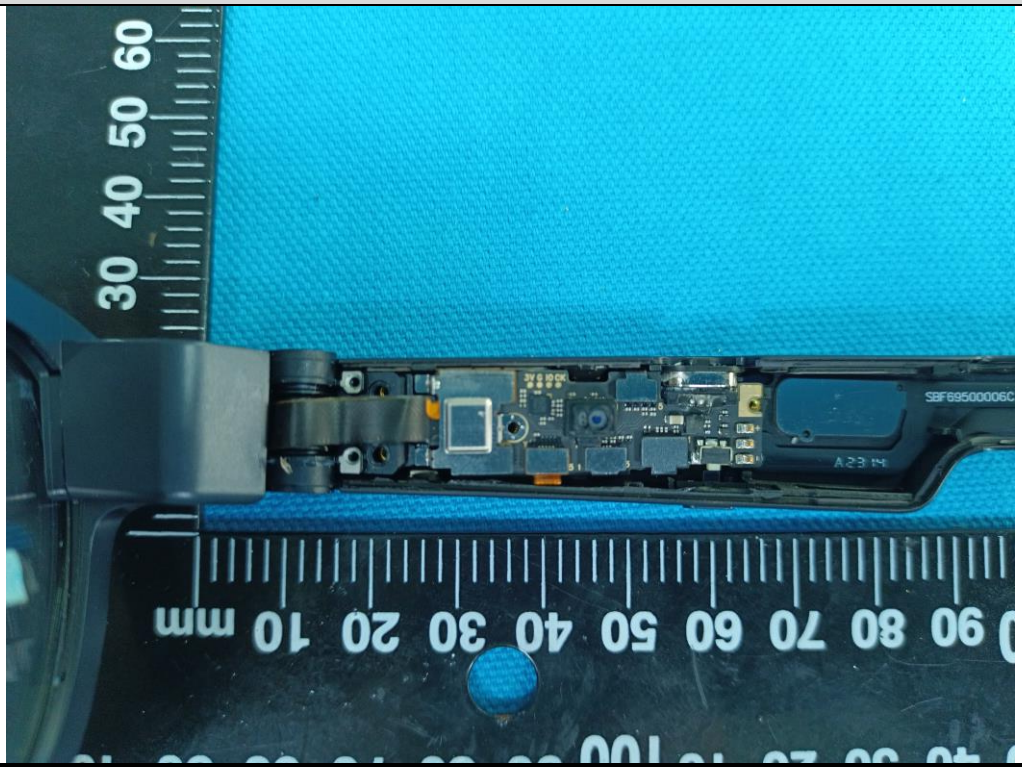
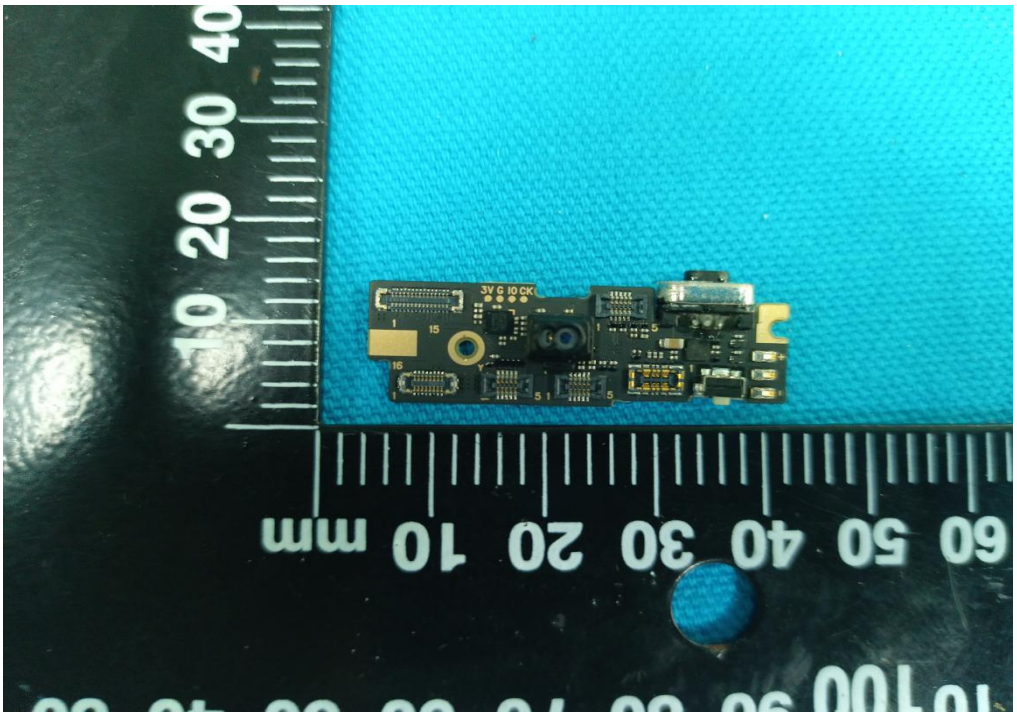
|  |

| EUT Photo |
| --- |
|  |

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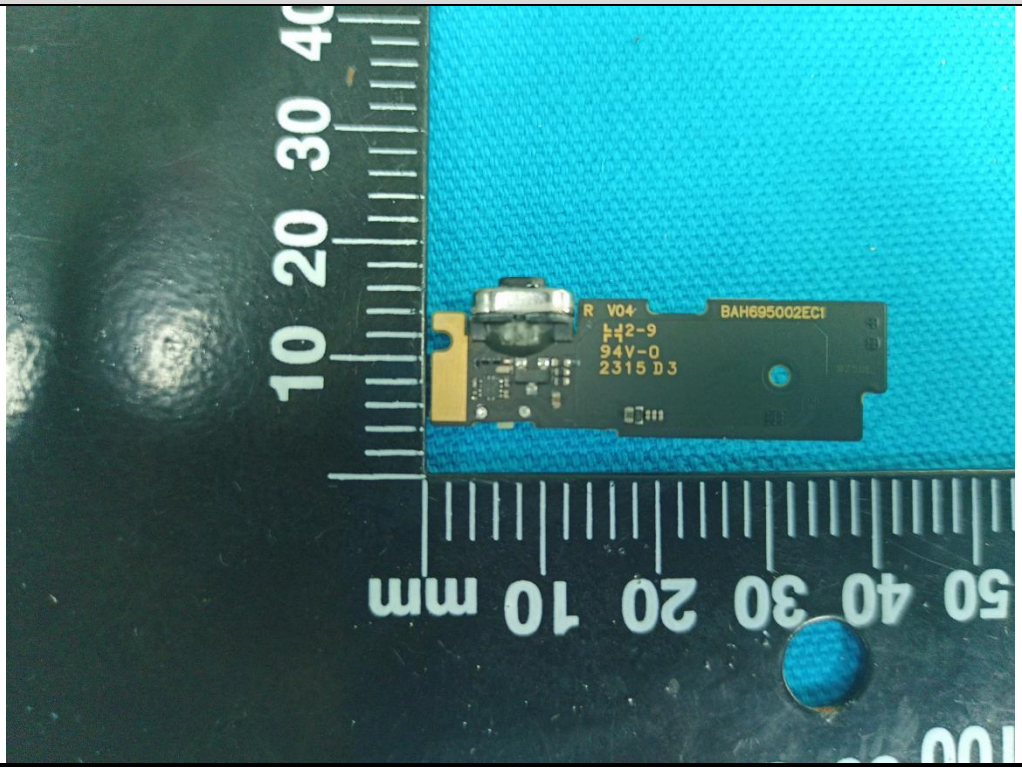
|  |



| EUT Photo |
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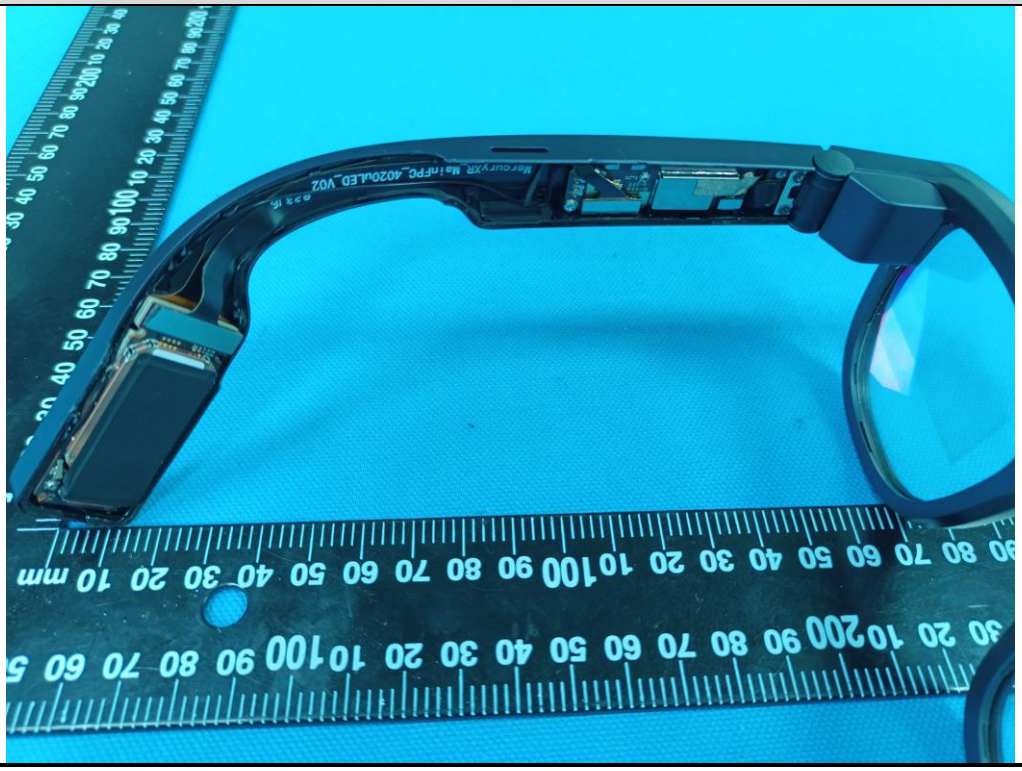
|  |

| EUT Photo |
| --- |
|  |

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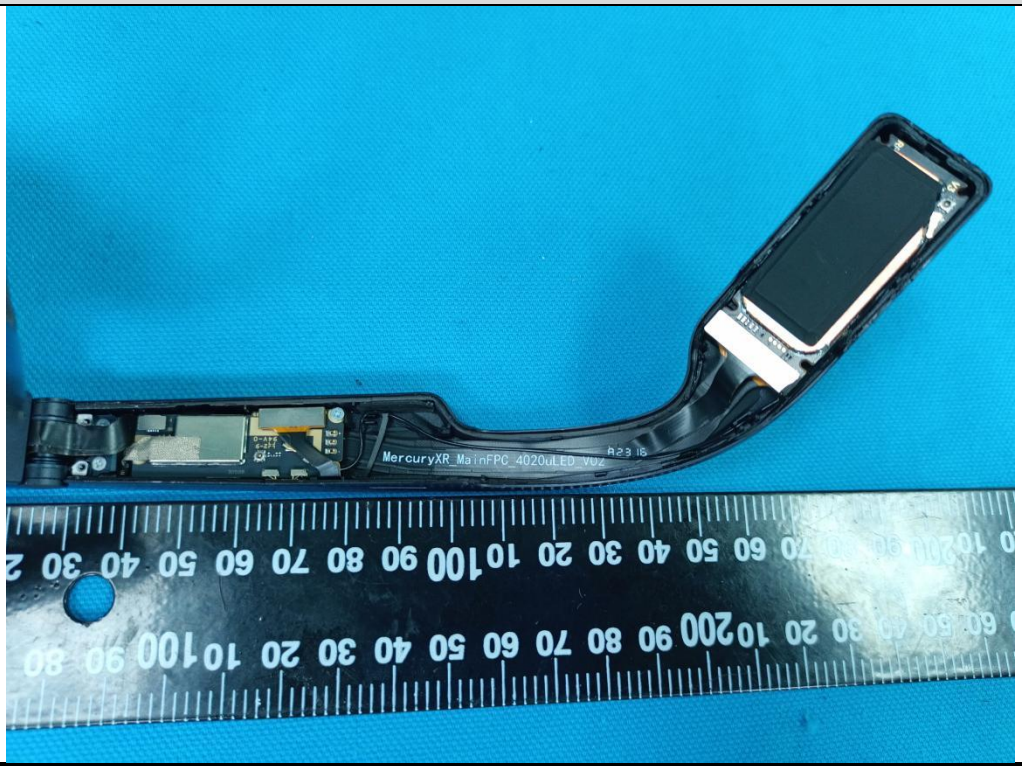
|  |

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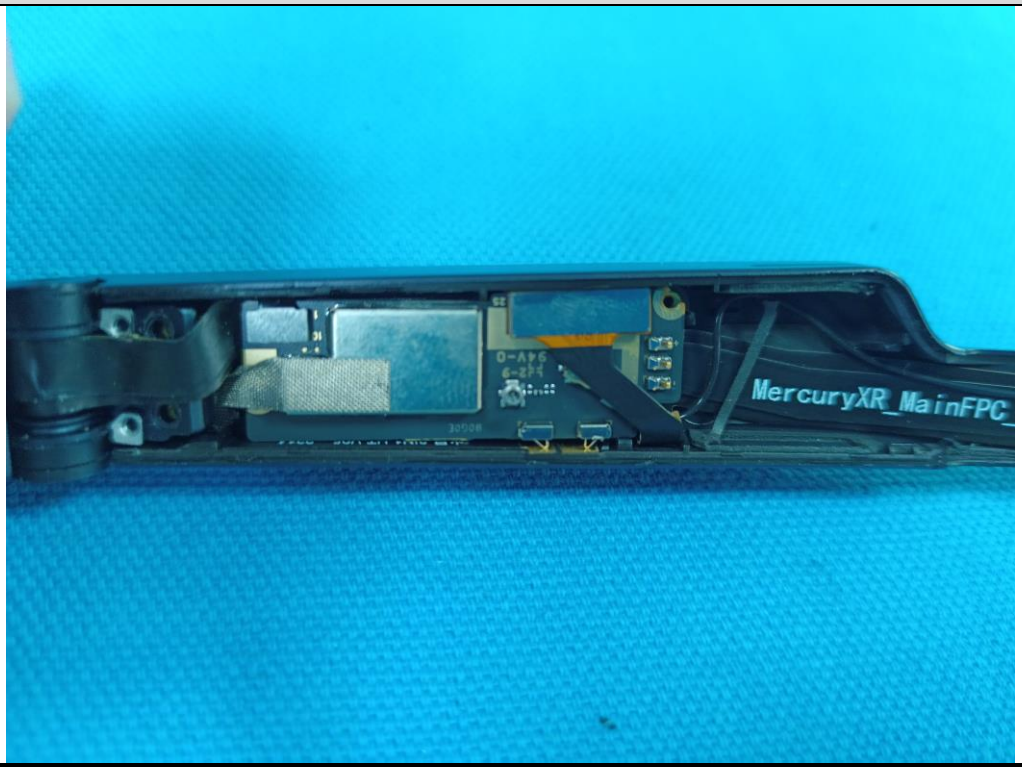
|   |

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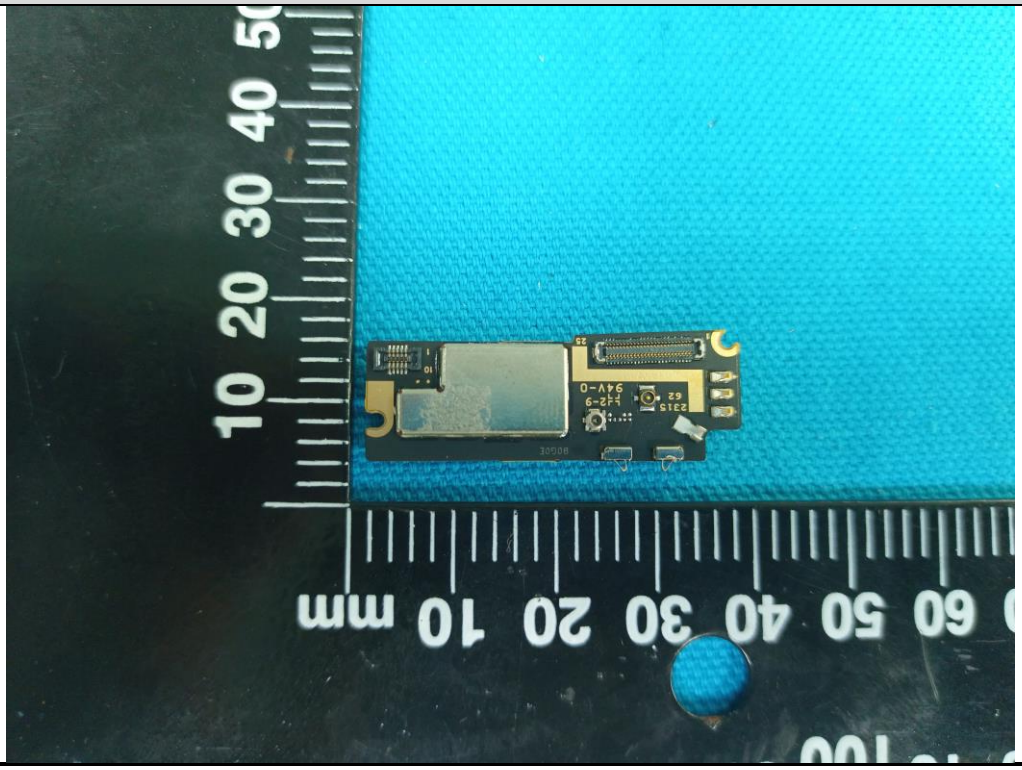
|   |

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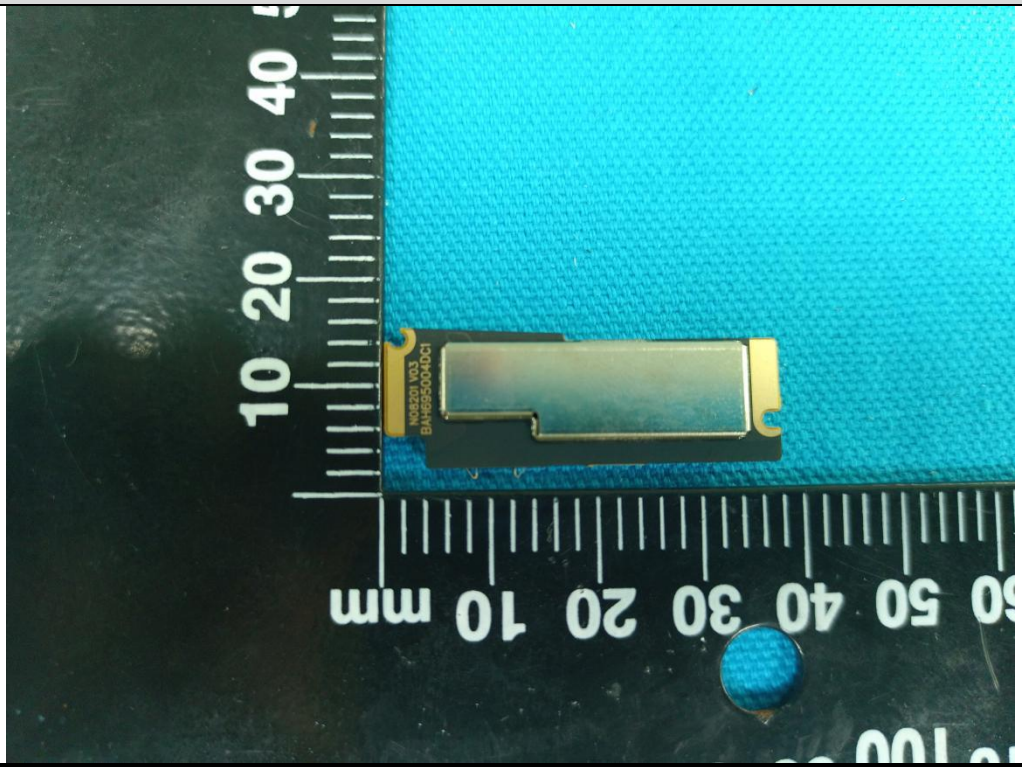
|  |

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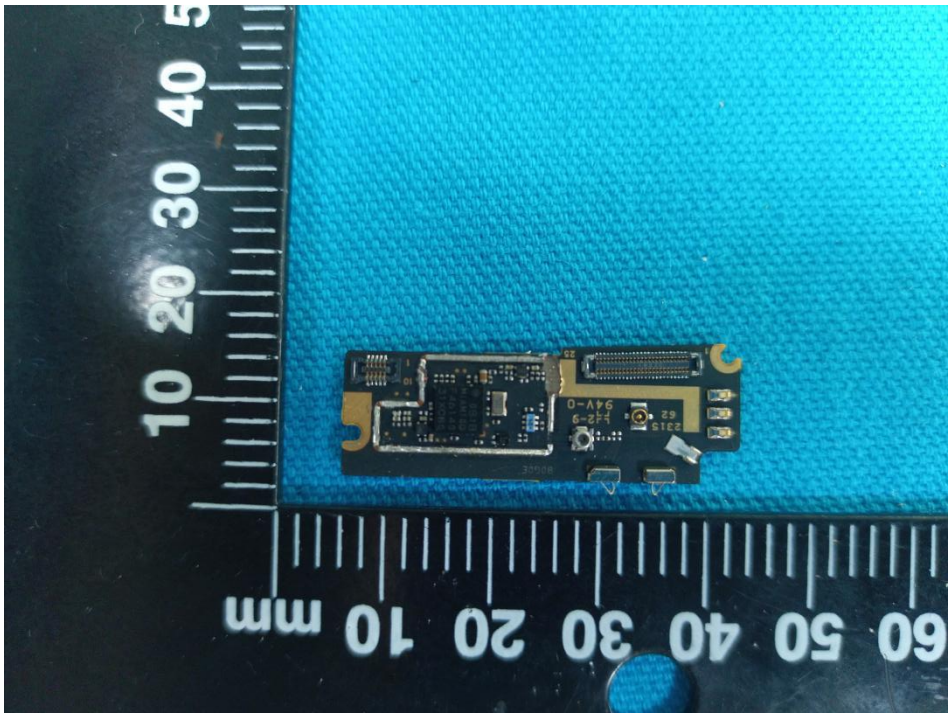
|  |

| EUT Photo |
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| EUT Photo |
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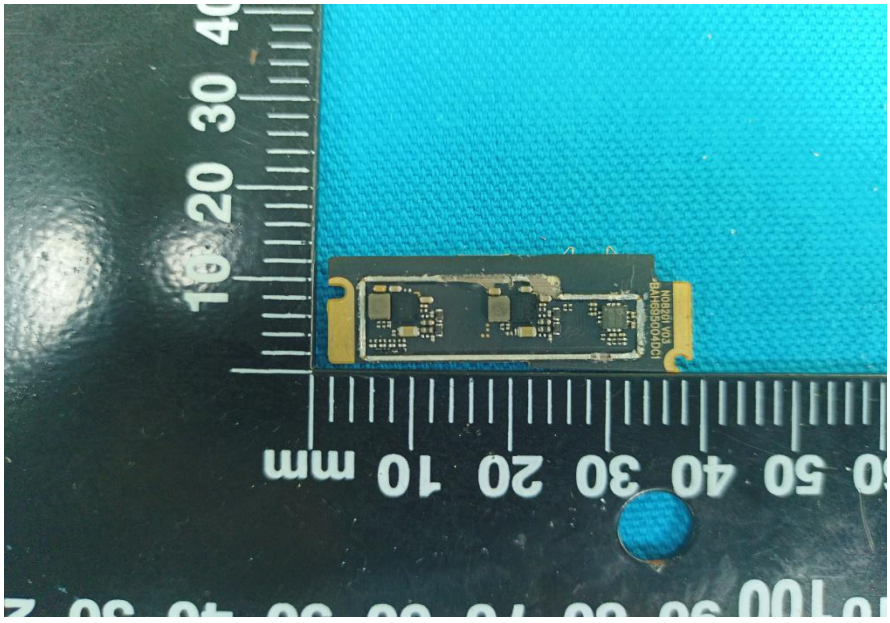
|  |

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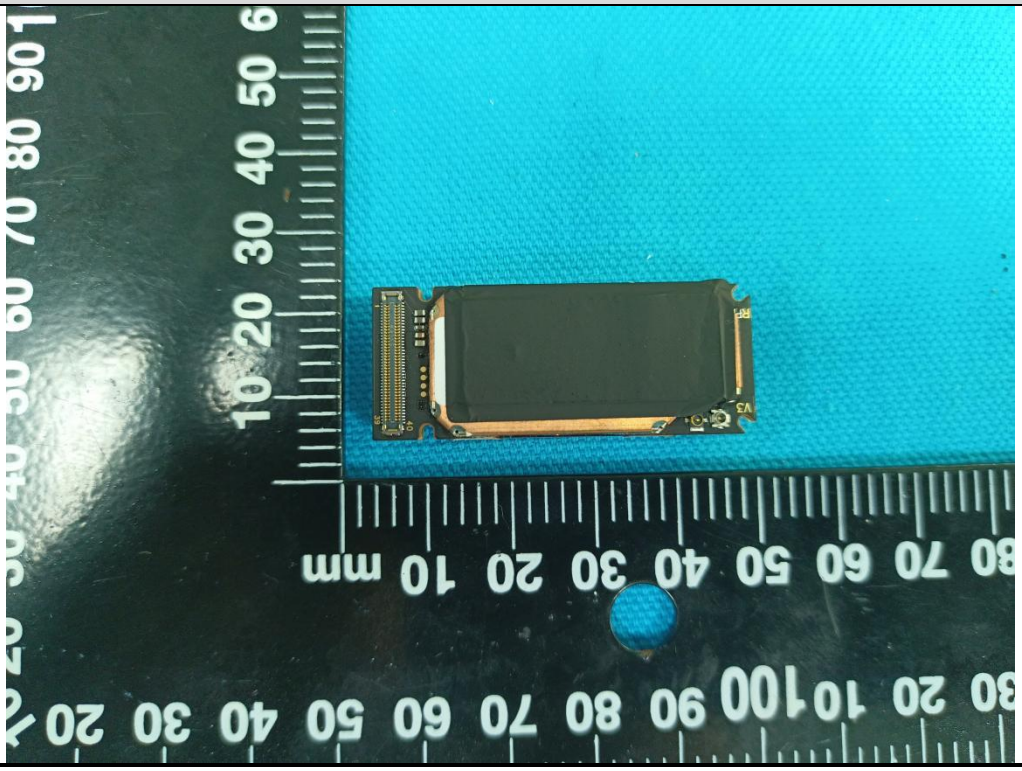
|  |

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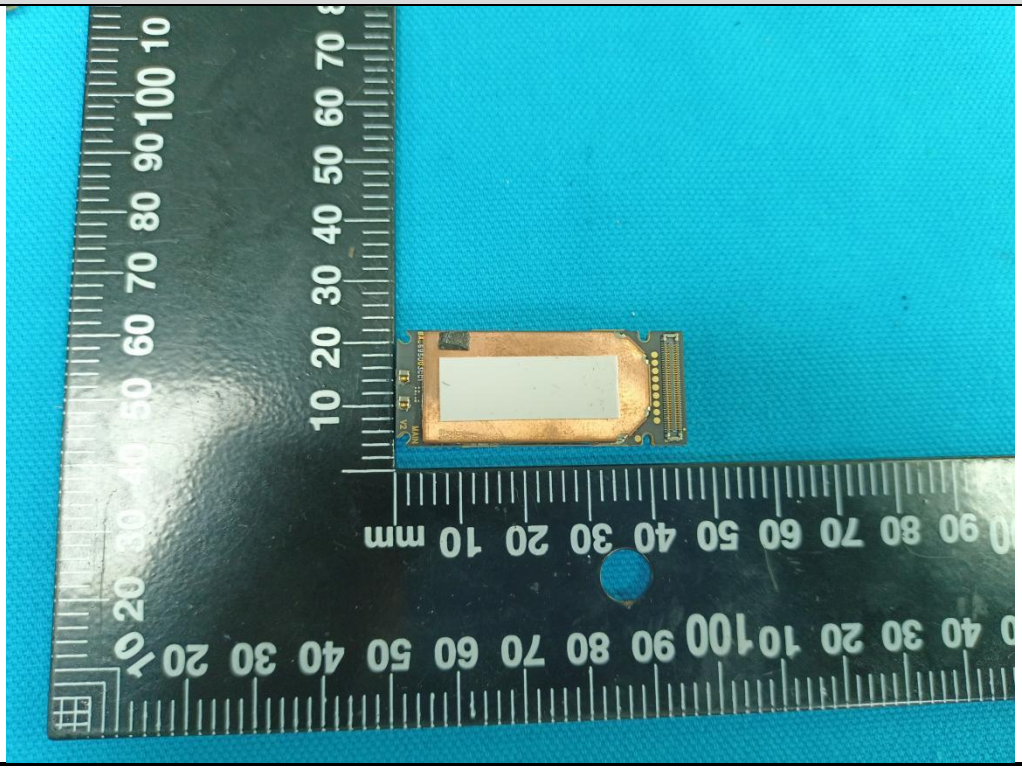
|  |

| EUT Photo |
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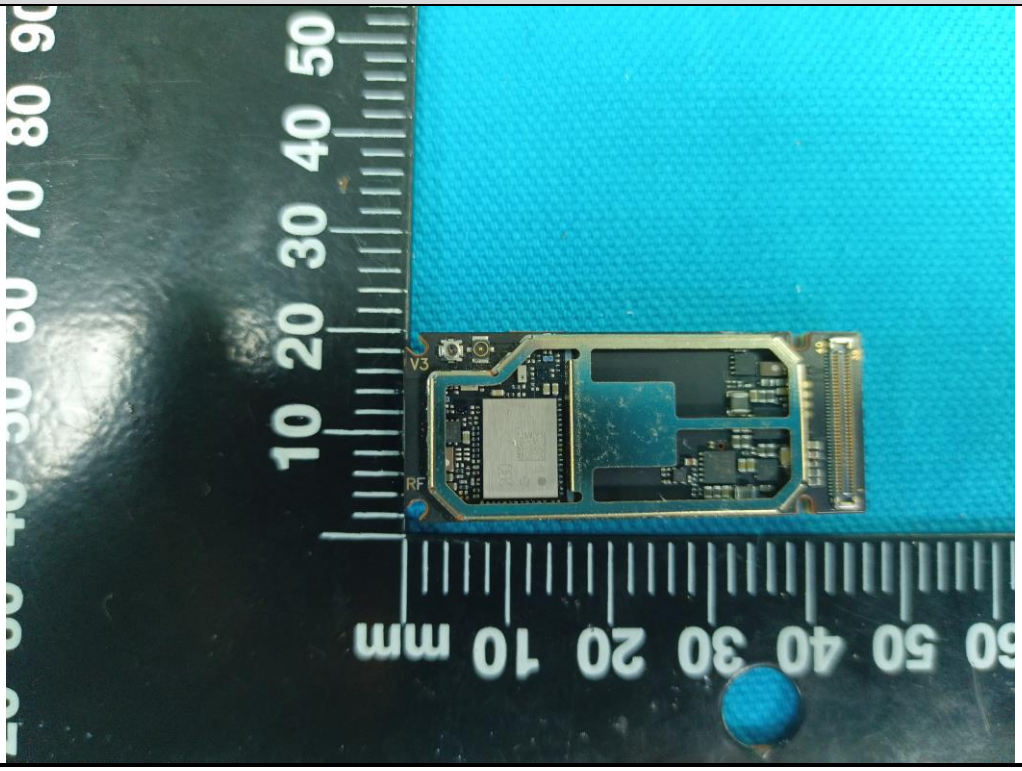
|  |

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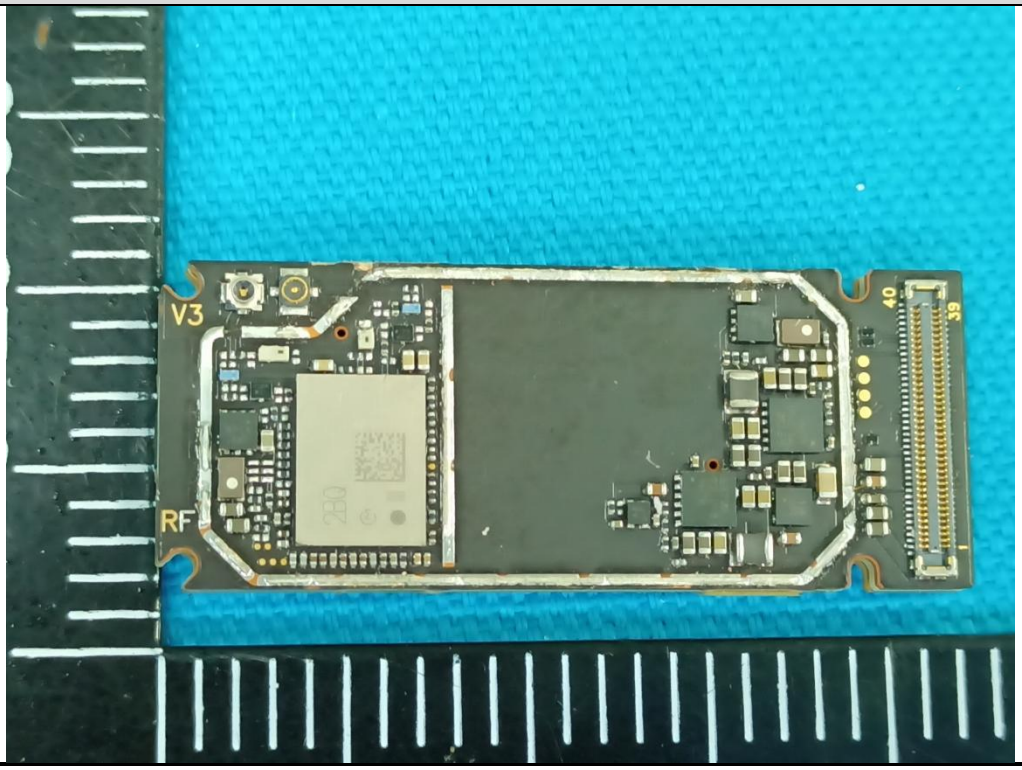
|  |

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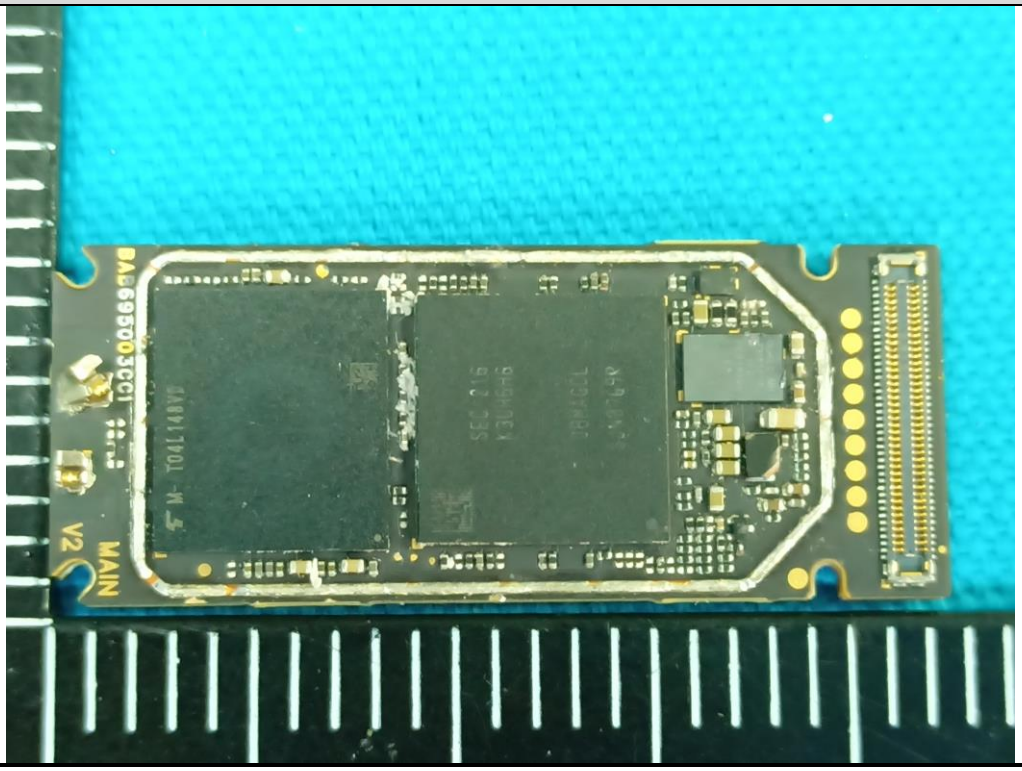
|  |

| EUT Photo |
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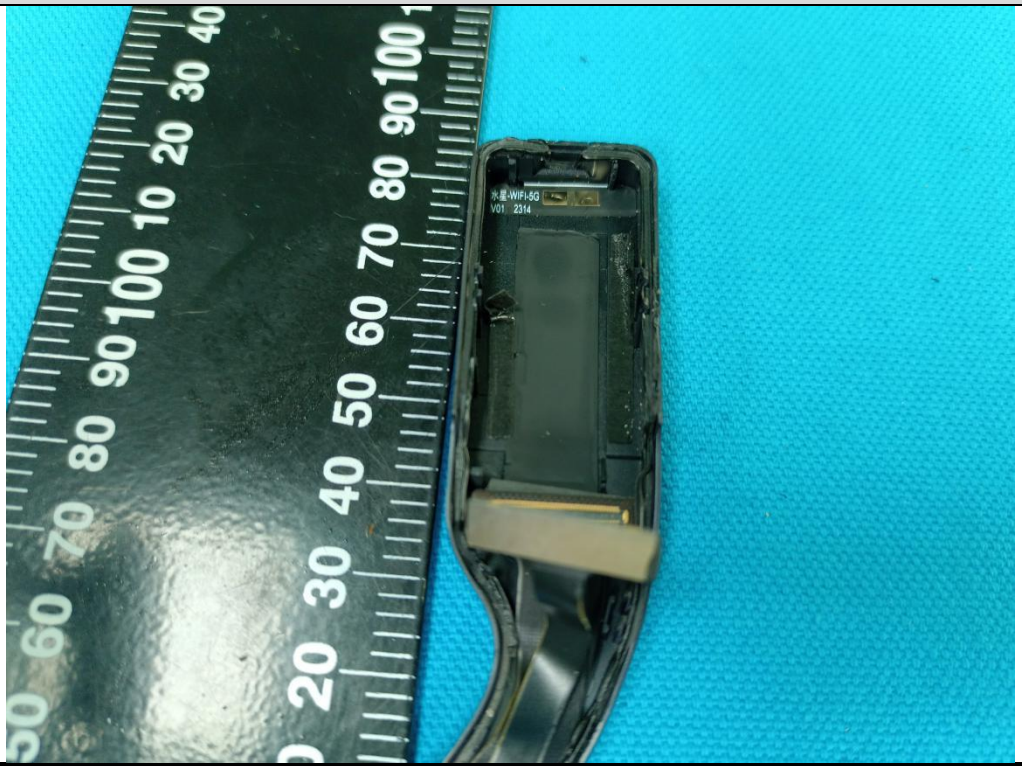
|  |

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