

# FCC Test Report

**Report No.** : 1812C50369712502

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**Applicant** : CiVinTec Global Co., Limited.

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**Address** : FLAT/RM 19H MAXGRAND PLAZA 3 TAI YAU  
STREET SAN PO KONG HONGKONG, CHINA

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**Product Name** : CRYSTAL TOUCH KEYPAD TERMINAL

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**Report Date** : 2025-09-18

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**Shenzhen Anbotek Compliance Laboratory Limited**



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## TEST REPORT

Applicant : CiVinTec Global Co., Limited.

Manufacturer : C-TECH INTELLIGENCE & TECHNOLOGY CO., LTD

Product Name : CRYSTAL TOUCH KEYPAD TERMINAL

Model No. : CT9E-HW-QP, CT9E-XX-XX-X (First X: is H for 4G module, Second X: is WiFi module, Third X: is Q for QR module, Fourth X: is P for POE module, Fifth X: is 2R for double relays), CT9E-T-P, CT9E-W-P, CT9E-T-P-2R, CT9E-W-P-2R, CT9E-T-QP, CT9E-W-QP, CT9E-T-QP-2R, CT9E-W-QP-2R, CT9E-H-P, CT9E-H-QP, CT9E-HW-P, CT9E-H-P-2R, CT9E-HW-P-2R

Trade Mark : CIVINTEC

Rating(s) : Input: 12-24V=800mA

**Test Standard(s) : 47 CFR Part 15.209  
ANSI C63.10-2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2025-07-30

Date of Test: 2025-07-30 to 2025-08-13

Prepared By:



(Lene Chen)

Approved & Authorized Signer:



(Hugo Chen)

Revision History

| Report Version | Description     | Issued Date |
|----------------|-----------------|-------------|
| R00            | Original Issue. | 2025-09-18  |
|                |                 |             |
|                |                 |             |

## 1. General Information

### 1.1. Client Information

|              |   |   |
|--------------|---|---|
| Applicant    | : | CiVinTec Global Co., Limited.   |
| Address      | : | FLAT/RM 19H MAXGRAND PLAZA 3 TAI YAU STREET SAN PO KONG HONGKONG, CHINA                               |
| Manufacturer | : | C-TECH INTELLIGENCE & TECHNOLOGY CO., LTD   |
| Address      | : | F20,Huatong Building,No.8,Ganli Road 2,Jihua Street,Longgang District,Shenzhen,Guangdong,518112,China |
| Factory      | : | C-TECH INTELLIGENCE & TECHNOLOGY CO., LTD   |
| Address      | : | F20,Huatong Building,No.8,Ganli Road 2,Jihua Street,Longgang District,Shenzhen,Guangdong,518112,China |

### 1.2. Description of Device (EUT)

|  |   |  |
|--|---|--|
| Product Name   | : | CRYSTAL TOUCH KEYPAD TERMINAL  |
| Model No.  | : | CT9E-HW-QP, CT9E-XX-XX-X (First X: is H for 4G module, Second X: is WiFi module, Third X: is Q for QR module, Fourth X: is P for POE module, Fifth X: is 2R for double relays), CT9E-T-P, CT9E-W-P, CT9E-T-P-2R, CT9E-W-P-2R, CT9E-T-QP, CT9E-W-QP, CT9E-T-QP-2R, CT9E-W-QP-2R, CT9E-H-P, CT9E-H-QP, CT9E-HW-P, CT9E-H-P-2R, CT9E-HW-P-2R<br>(Note: All samples are the same except the model number, so we prepare "CT9E-HW-QP" for test only.) |
| Trade Mark   | : | CIVINTEC   |
| Test Power Supply  | : | DC 12V   |
| Test Sample No.  | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)  |
| Adapter  | : | N/A  |
| <b>RF Specification</b>  |   |  |
| Operation Frequency  | : | 125KHz   |
| Number of Channel  | : | 1  |
| Modulation Type  | : | ASK  |
| Antenna Type   | : | Inductive loop coil Antenna  |
| <b>Remark:</b><br>(1) All of the RF specification are provided by customer.<br>(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |  |

### 1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|-------|--------------|-----------|------------|
| /     | /            | /         | /          |

### 1.4. Description of Test Modes

| Pretest Modes | Descriptions |
|---------------|--------------|
| TM1           | Standby Mode |

### 1.5. Measurement Uncertainty

| Parameter  | Uncertainty                          |
|--|--------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz)   | 3.2dB                                |
| Occupied Bandwidth   | 925Hz                                |
| Radiated emissions (Below 30MHz)   | 3.26dB                               |
| Radiated spurious emissions (30MHz~1GHz)   | Horizontal: 3.70dB; Vertical: 4.42dB |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                      |

### 1.6. Test Summary

| Test Items   | Test Modes | Status |
|--|------------|--------|
| Antenna requirement                                    | /          | P      |
| Conducted Emission at AC power line                    | /          | N      |
| 20dB Occupied Bandwidth                                | Mode1      | P      |
| Emissions in restricted frequency bands (below 30MHz)  | Mode1      | P      |
| Emissions in restricted frequency bands (30MHz - 1GHz) | Mode1      | P      |
| Note:<br>P: Pass<br>N: N/A, not applicable             |            |        |

## 1.7. Description of Test Facility

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

### FCC-Registration No.:279531

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 279531.

### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.  
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.8. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek 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 authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

### 1.9. Test Equipment List

| Conducted Emission at AC power line |   |                  |              |            |            |              |
|-------------------------------------|---|------------------|--------------|------------|------------|--------------|
| Item                                | Equipment   | Manufacturer     | Model No.    | Serial No. | Last Cal.  | Cal.Due Date |
| 1                                   | L.I.S.N. Artificial Mains Network                     | Rohde & Schwarz  | ENV216       | 100055     | 2024-09-09 | 2025-09-08   |
| 2                                   | Software Name EZ-EMC                                  | Farad Technology | ANB-03A      | N/A        | /          | /            |
| 3                                   | EMI Test Receiver(CE2#)                               | Rohde & Schwarz  | ESPI3        | 100926     | 2024-09-09 | 2025-09-08   |
| 4                                   | Three Phase V-type Artificial Power Network LISN 200A | EMtrace          | PWL-50-3200A | 2404       | 2025-02-21 | 2026-02-20   |

| 20dB Occupied Bandwidth |                                       |                 |            |             |            |              |
|-------------------------|---------------------------------------|-----------------|------------|-------------|------------|--------------|
| Item                    | Equipment                             | Manufacturer    | Model No.  | Serial No.  | Last Cal.  | Cal.Due Date |
| 1                       | Constant Temperature Humidity Chamber | ZHONGJIAN       | ZJ-KHWS80B | N/A         | 2024-10-14 | 2025-10-13   |
| 2                       | DC Power Supply                       | IVYTECH         | IV3605     | 1804D360510 | 2024-09-09 | 2025-09-08   |
| 3                       | Spectrum Analyzer                     | Rohde & Schwarz | FSV40-N    | 102150      | 2025-04-25 | 2026-04-24   |
| 4                       | MXA Spectrum Analysis                 | KEYSIGHT        | N9020A     | MY50531823  | 2024-09-09 | 2025-09-08   |
| 5                       | Oscilloscope                          | Tektronix       | MDO3012    | C020298     | 2024-10-10 | 2025-10-09   |
| 6                       | MXG RF Vector Signal Generator        | Agilent         | N5182A     | MY47420647  | 2025-01-14 | 2026-01-13   |

| Emissions in frequency bands (below 30MHz) |                           |                  |           |            |            |              |
|--|---------------------------|------------------|-----------|------------|------------|--------------|
| Item                                       | Equipment                 | Manufacturer     | Model No. | Serial No. | Last Cal.  | Cal.Due Date |
| 1  | EMI Test Receiver(RE2/3#) | Rohde & Schwarz  | ESR26     | 101481     | 2025-01-14 | 2026-01-13   |
| 2  | Pre-amplifier             | SONOMA           | 310N      | 186860     | 2025-01-14 | 2026-01-13   |
| 3  | Loop Antenna (9K-30M)     | Schwarzbeck      | FMZB1519B | 00053      | 2024-09-12 | 2025-09-11   |
| 4  | Software Name EZ-EMC      | Farad Technology | ANB-03A   | N/A        | /          | /            |



| Emissions in frequency bands (30MHz - 1GHz) |                           |                 |            |            |            |              |
|---|---------------------------|-----------------|------------|------------|------------|--------------|
| Item  | Equipment                 | Manufacturer    | Model No.  | Serial No. | Last Cal.  | Cal.Due Date |
| 1   | EMI Test Receiver(RE2/3#) | Rohde & Schwarz | ESR26      | 101481     | 2025-01-14 | 2026-01-13   |
| 2   | Pre-amplifier             | SONOMA          | 310N       | 186860     | 2025-01-14 | 2026-01-13   |
| 3   | Bilog Broadband Antenna   | Schwarzbeck     | VULB9163   | 345        | 2022-10-23 | 2025-10-22   |
| 4   | Loop Antenna (9K-30M)     | Schwarzbeck     | FMZB1519 B | 00053      | 2024-09-12 | 2025-09-11   |
| 5   | EMI Test Software EZ-EMC  | SHURPLE         | N/A        | N/A        | /          | /            |

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2. Antenna requirement

|                   |   |
|-------------------|---|
| Test Requirement: | Refer to 47 CFR Part 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. 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. |
|-------------------|---|

2.1. Conclusion

|  |
|--|
| The antenna is a <b>Inductive loop coil antenna</b> which permanently attached. It complies with the standard requirement. |
|--|

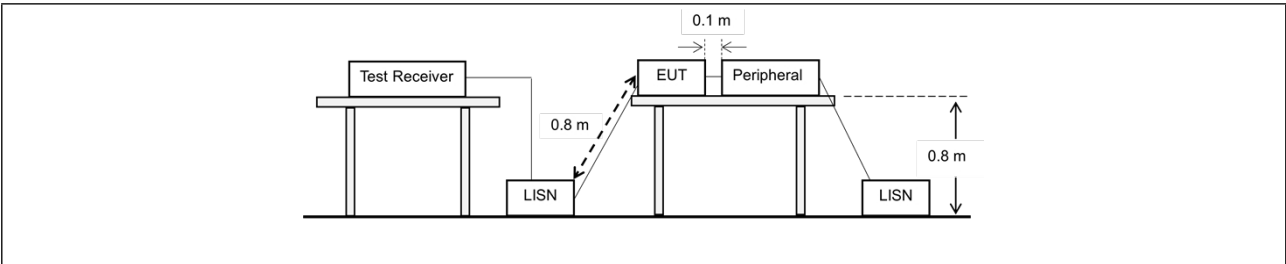
### 3. Conducted Emission at AC power line

|                   |  |                              |           |
|-------------------|--|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:       | Frequency of emission (MHz)  | Conducted limit (dB $\mu$ V) |           |
|                   |  | Quasi-peak                   | Average   |
|                   | 0.15-0.5   | 66 to 56*                    | 56 to 46* |
|                   | 0.5-5  | 56                           | 46        |
|                   | 5-30   | 60                           | 50        |
|                   | *Decreases with the logarithm of the frequency.  |                              |           |
| Test Method:      | ANSI C63.10-2020 section 6.2   |                              |           |
| Procedure:        | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices   |                              |           |

#### 3.1. EUT Operation

|                        |   |
|------------------------|---|
| Operating Environment: |   |
| Test mode:             | / |

#### 3.2. Test Setup



#### 3.3. Test Data

Not applicable for equipment operated with DC power supply.

#### 4. 20dB Occupied Bandwidth

|                   |   |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15.215(c)   |
| Test Limit:       | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.   |
| Test Method:      | ANSI C63.10-2020, section 6.9.2   |
| Procedure:        | <p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - xx]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this</p> |

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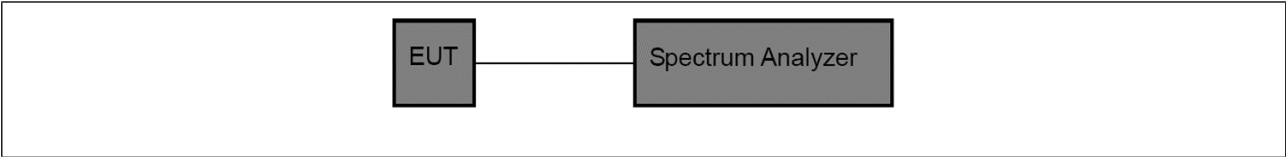
Hotline: 400-003-0500 web: [www.anbotek.com](http://www.anbotek.com) E-mail: [service@anbotek.com](mailto:service@anbotek.com)

|  |  |
|--|--|
|  | <p>point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p> |
|--|--|

### 4.1. EUT Operation

|                        |                      |
|------------------------|----------------------|
| Operating Environment: |                      |
| Test mode:             | 1: TM1: Standby Mode |

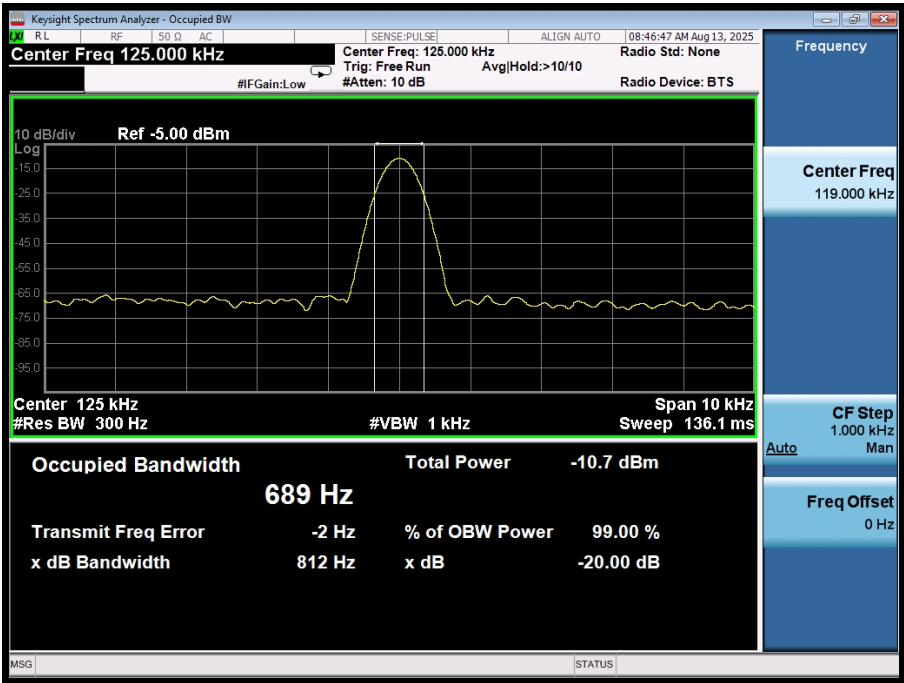
### 4.2. Test Setup



### 4.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 26.1 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Freq.(MHz) | Bandwidth (kHz) | Results |
|------------|-----------------|---------|
| 0.125      | 0.812           | PASS    |



Note: The measured signal is Cw-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 3kHz to perform the occupied bandwidth test.

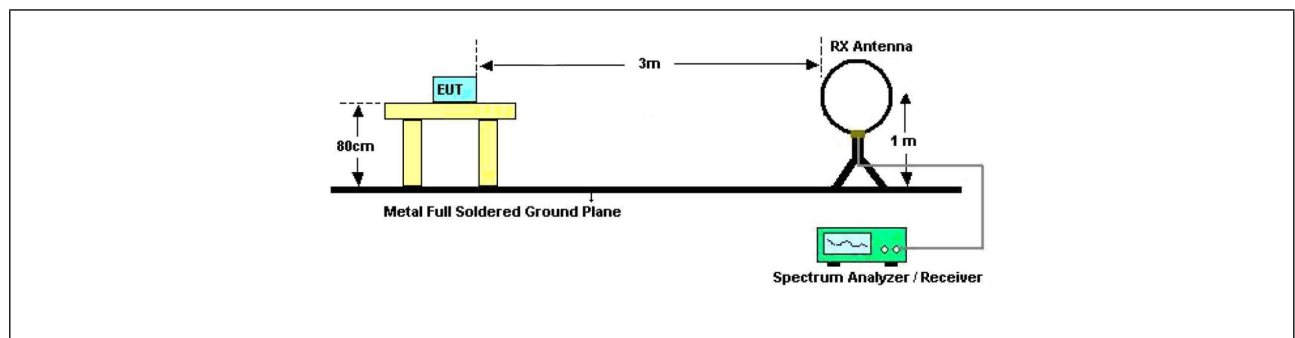
## 5. Emissions in restricted frequency bands (below 30MHz)

|                   |   |                                   |                               |
|-------------------|---|-----------------------------------|-------------------------------|
| Test Requirement: | 47 CFR Part 15.209  |                                   |                               |
| Test Limit:       | Frequency (MHz)   | Field strength (microvolts/meter) | Measurement distance (meters) |
|                   | 0.009-0.490   | 2400/F(kHz)                       | 300                           |
|                   | 0.490-1.705   | 24000/F(kHz)                      | 30                            |
|                   | 1.705-30.0  | 30                                | 30                            |
|                   | 30-88   | 100 **                            | 3                             |
|                   | 88-216  | 150 **                            | 3                             |
|                   | 216-960   | 200 **                            | 3                             |
|                   | Above 960   | 500                               | 3                             |
|                   | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> |                                   |                               |
| Test Method:      | ANSI C63.10-2020 section 6.4  |                                   |                               |
| Procedure:        | ANSI C63.10-2020 section 6.4  |                                   |                               |

### 5.1. EUT Operation

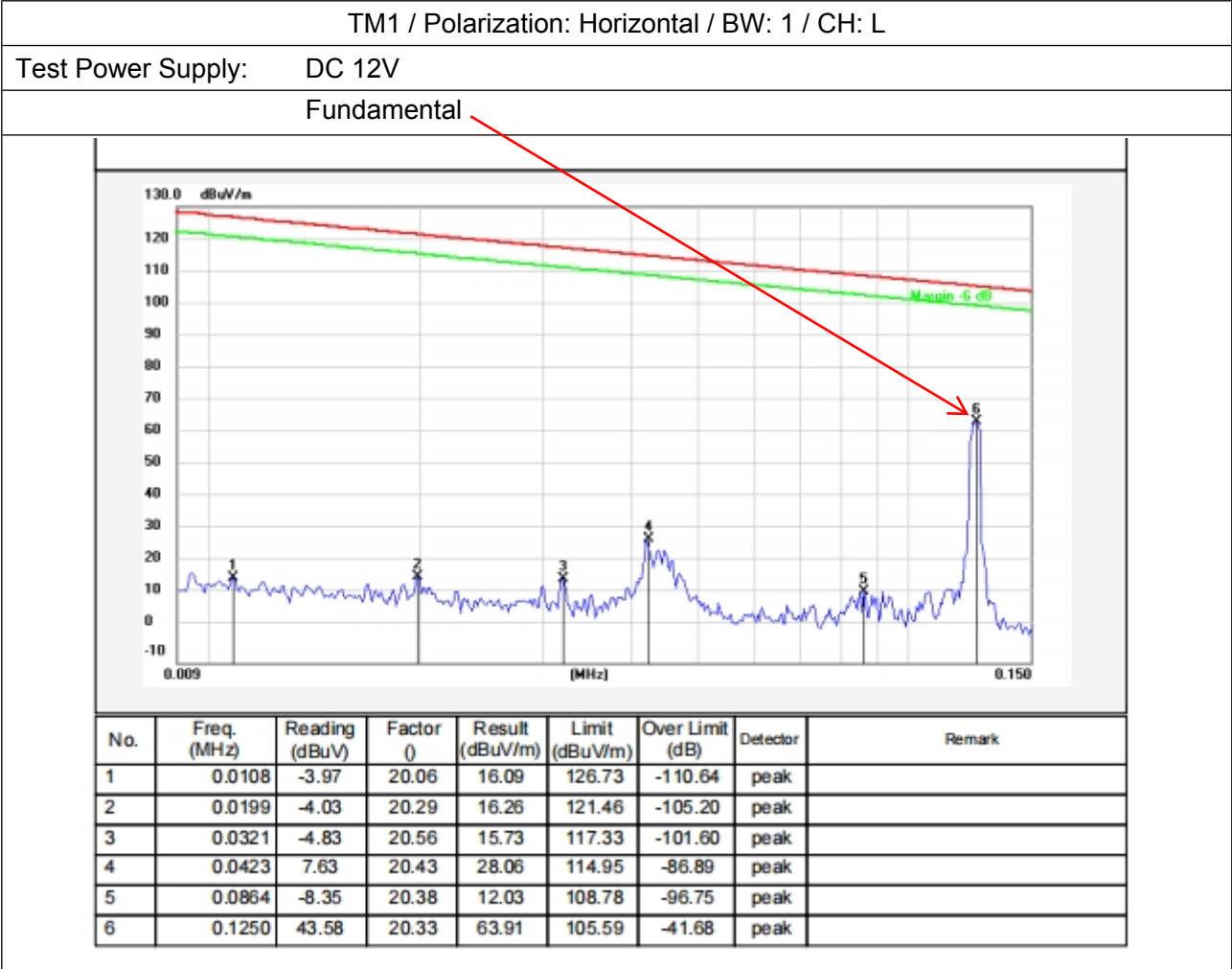
|                        |                      |
|------------------------|----------------------|
| Operating Environment: |                      |
| Test mode:             | 1: TM1: Standby Mode |

### 5.2. Test Setup



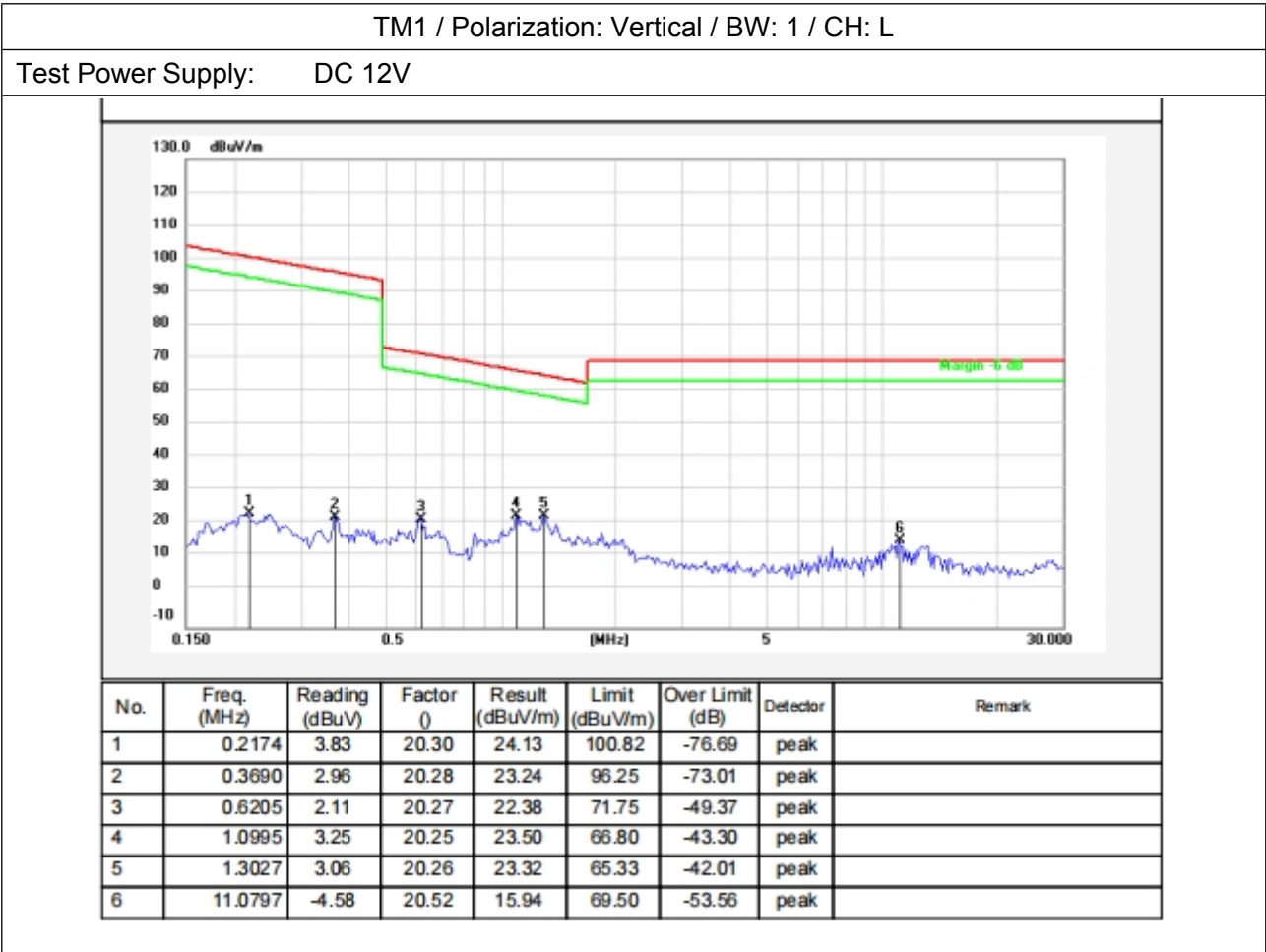
5.3. Test Data

|              |       |           |      |                       |         |
|--------------|-------|-----------|------|-----------------------|---------|
| Temperature: | 24 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
|--------------|-------|-----------|------|-----------------------|---------|





|              |       |           |      |                       |         |
|--------------|-------|-----------|------|-----------------------|---------|
| Temperature: | 24 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
|--------------|-------|-----------|------|-----------------------|---------|



Note:

1. Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);  
Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)



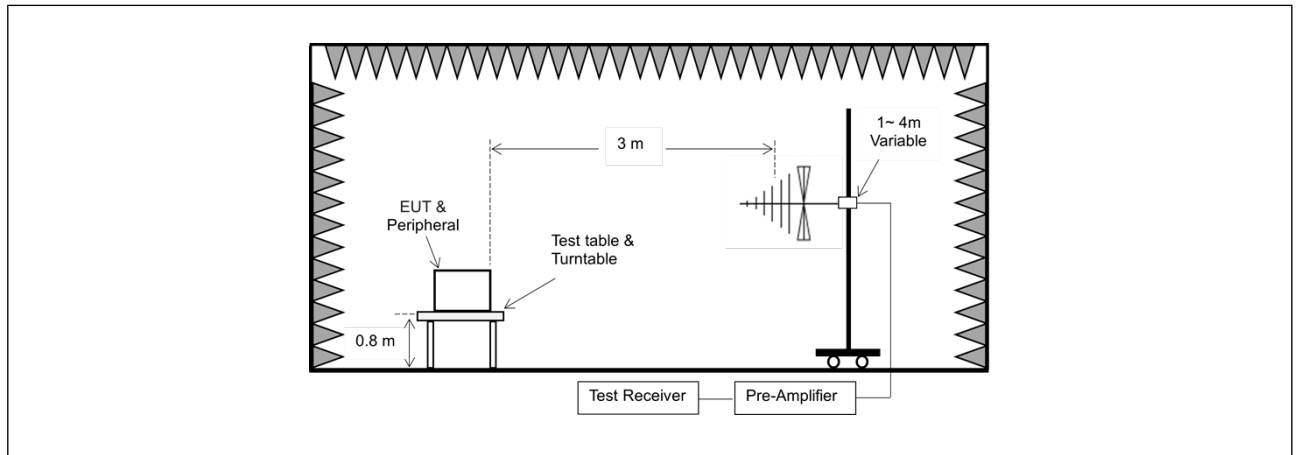
## 6. Emissions in restricted frequency bands (30MHz - 1GHz)

|                   |   |                                   |                               |
|-------------------|---|-----------------------------------|-------------------------------|
| Test Requirement: | 47 CFR Part 15.209  |                                   |                               |
| Test Limit:       | Frequency (MHz)   | Field strength (microvolts/meter) | Measurement distance (meters) |
|                   | 0.009-0.490   | 2400/F(kHz)                       | 300                           |
|                   | 0.490-1.705   | 24000/F(kHz)                      | 30                            |
|                   | 1.705-30.0  | 30                                | 30                            |
|                   | 30-88   | 100 **                            | 3                             |
|                   | 88-216  | 150 **                            | 3                             |
|                   | 216-960   | 200 **                            | 3                             |
|                   | Above 960   | 500                               | 3                             |
|                   | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> |                                   |                               |
| Test Method:      | ANSI C63.10-2020 section 6.5  |                                   |                               |
| Procedure:        | ANSI C63.10-2020 section 6.5  |                                   |                               |

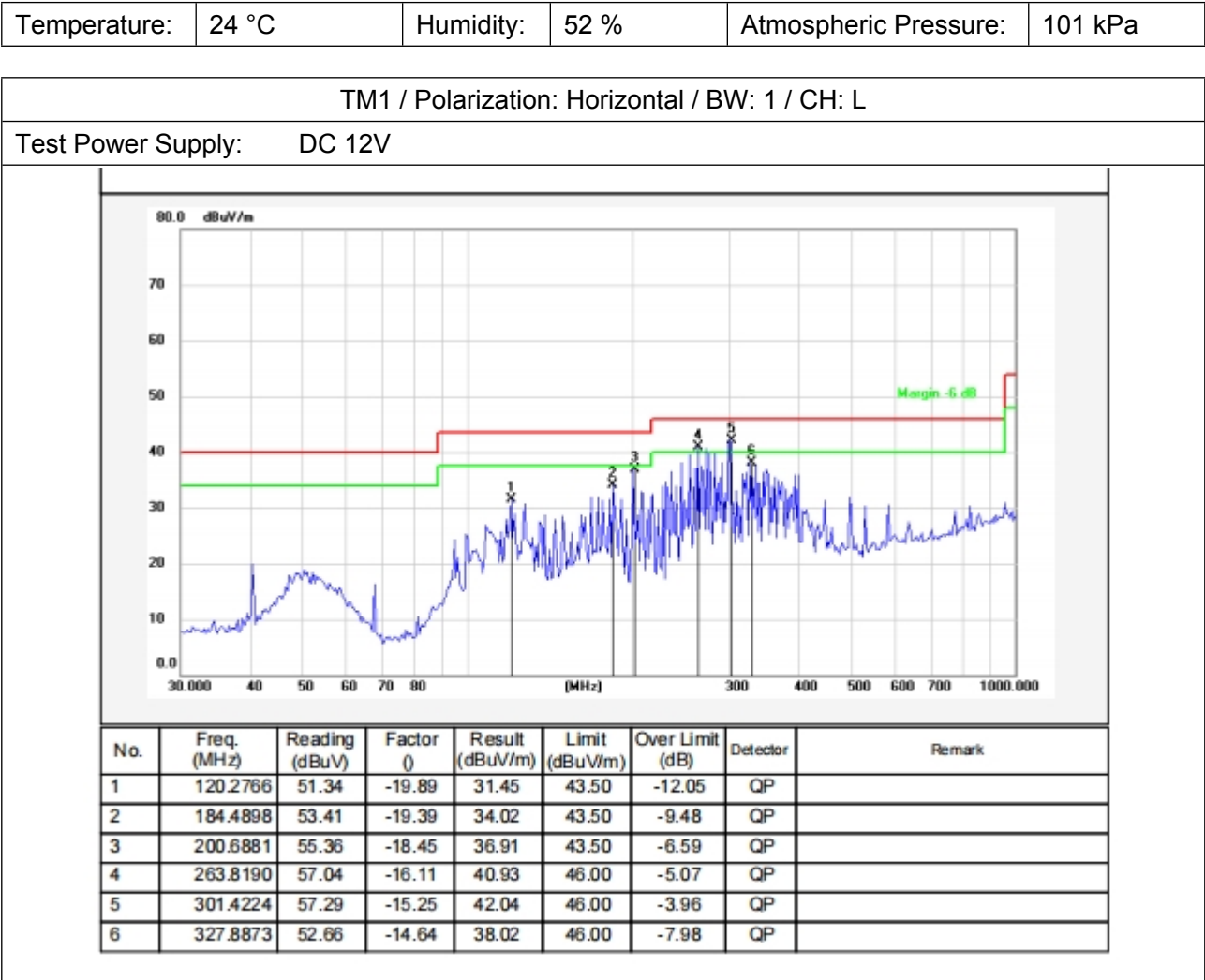
### 6.1. EUT Operation

|                        |                      |
|------------------------|----------------------|
| Operating Environment: |                      |
| Test mode:             | 1: TM1: Standby Mode |

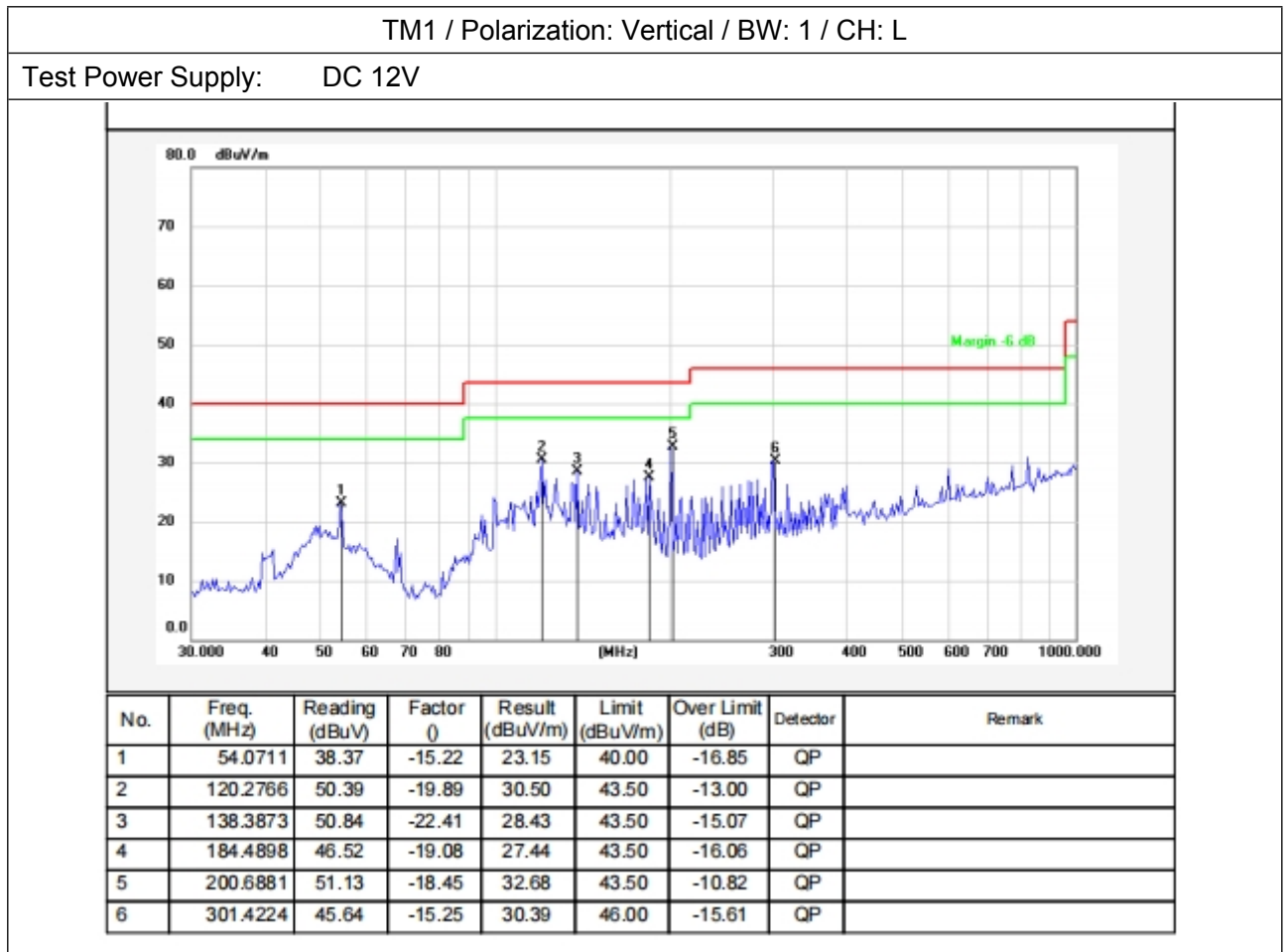
## 6.2. Test Setup



6.3. Test Data



|              |       |           |      |                       |         |
|--------------|-------|-----------|------|-----------------------|---------|
| Temperature: | 24 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
|--------------|-------|-----------|------|-----------------------|---------|



#### Shenzhen Anbotek Compliance Laboratory Limited

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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----