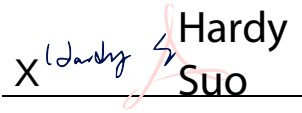


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |                                                            |                                                                     |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>CN20E8DE 001</b>                                                                                                     | <b>Auftrags-Nr.:</b><br>Order no.:                         | <b>168294555</b>                                                    | Seite 1 von 17<br>Page 1 of 17                                                        |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                     | <b>Auftragsdatum:</b><br>Order date:                       | 2020-12-11                                                          |                                                                                       |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Hangzhou Hikvision Digital Technology Co., Ltd.</b><br>No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China |                                                            |                                                                     |                                                                                       |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                | Wireless Temperature Detector                                                                                           |                                                            |                                                                     |                                                                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                         | DS-PDTPH-E-WB, DS-PDTPH-E-WBUHK, DS-PDTPH-E-WBCKV, DS-PDTPH-E-WBUVS, DS-PDTPH-E-WBKVO, DS-PDTPH-E-WBHUN                 |                                                            |                                                                     |                                                                                       |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                           | Test Report                                                                                                             |                                                            |                                                                     |                                                                                       |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC 47 CFR Part 15.203<br>FCC 47 CFR Part 15.231<br>FCC 47 CFR Part 2.1093                                              |                                                            |                                                                     |                                                                                       |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                               | 2020-12-20                                                                                                              | Refer to Photo Documentation                               |                                                                     |                                                                                       |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                          | A002966999-005, 006                                                                                                     |                                                            |                                                                     |                                                                                       |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                             | 2020-12-29 to 2021-01-06                                                                                                |                                                            |                                                                     |                                                                                       |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                        | Refer to section 2.1                                                                                                    |                                                            |                                                                     |                                                                                       |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                     | TÜV Rheinland (Shenzhen) Co., Ltd.                                                                                      |                                                            |                                                                     |                                                                                       |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                                                    |                                                            |                                                                     |                                                                                       |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                                                            | <b>genehmigt von:</b><br>authorized by:                             |  |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2021-01-11                                                                                                              |                                                            | <b>Ausstellungsdatum:</b><br>Issue date:                            | 2021-01-11                                                                            |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sachverständige(r) / Expert                                                                                             |                                                            | <b>Stellung / Position:</b>                                         | Sachverständige(r) / Expert                                                           |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | FCC ID: 2ADTD-D2100001                                                                                                  |                                                            |                                                                     |                                                                                       |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                     | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged                                             |                                                            |                                                                     |                                                                                       |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                                                               | 2 = gut<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | 3 = befriedigend<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | 4 = ausreichend<br>N/A = nicht anwendbar                                              |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 = very good<br>P(ass) = passed a.m. test specification(s)                                                             | 2 = good<br>F(ail) = failed a.m. test specification(s)     | 3 = satisfactory<br>F(ail) = failed a.m. test specification(s)      | 4 = sufficient<br>N/A = not applicable                                                |
| 5 = mangelhaft<br>N/T = nicht getestet                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |                                                            |                                                                     |                                                                                       |
| 5 = poor<br>N/T = not tested                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |                                                            |                                                                     |                                                                                       |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> |                                                                                                                         |                                                            |                                                                     |                                                                                       |

## TEST SUMMARY

5.1.1 Antenna Requirement

RESULT: Pass

5.1.2 Deactivation of the Transmission

RESULT: Pass

5.1.3 20dB Emission Bandwidth

RESULT: Pass

5.1.4 Field strength of fundamental and Unwanted Emissions in the Spurious Domain

RESULT: Pass

5.1.5 Radio Frequency Exposure Compliance

RESULT: Pass

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## **1. GENERAL REMARKS**

### **1.1 COMPLEMENTARY MATERIALS**

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of radio spectrum

Appendix B: Photographs of the Test Set-Up

### **1.2 TEST STANDARD(S)**

Applied Rules: FCC 47 CFR Part 15.203  
FCC 47 CFR Part 15.231  
FCC 47 CFR Part 2.1093

Test Method: ANSI C63.10:2013

## **2. TEST SITES**

### **2.1 TEST FACILITIES**

Test Facilities: TÜV Rheinland (Shenzhen) Co., Ltd.

Address:

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China

### **2.2 TEST DATE**

Date: 2020-12-29 to 2021-01-06

## 2.3 LIST OF TEST AND MEASUREMENT INSTRUMENTS

**Table 1: List of Test and Measurement Equipment**

| Radio Spectrum Testing (TS8997)    |                                           |              |                   |              |                               |
|------------------------------------|-------------------------------------------|--------------|-------------------|--------------|-------------------------------|
| Equip. No.                         | Description                               | Manufacturer | Model             | Serial No.   | Calibrated until (DD.MM.YYYY) |
| G1825795                           | Signal Analyzer                           | R&S          | FSV 40            | 101441       | 10.08.2021                    |
| G1825797                           | Signal Generator                          | R&S          | SMB100A           | 115186       | 10.08.2021                    |
| G1826483                           | Humid & Temp Programmable Tester          | BOST         | NTH090-60         | 19040801     | 10.04.2021                    |
| G1826431                           | Shielding Room 8#                         | Albatross    | SR8               | APC17151-SR8 | 23.07.2021                    |
| Unwanted Emission Testing (TS9975) |                                           |              |                   |              |                               |
| Equip. No.                         | Description                               | Manufacturer | Model             | Serial No.   | Calibrated until (DD.MM.YYYY) |
| G1826021                           | EMI Test Receiver                         | R&S          | ESR 7             | 102021       | 11.08.2021                    |
| G1826023                           | Signal Analyzer                           | R&S          | FSV 40            | 101439       | 10.08.2021                    |
| G1826024                           | System Controller Interface               | R&S          | SCI-100           | S10010038    | N/A                           |
| G1826025                           | Filterbank                                | R&S          | Wlan              | 100759       | 10.08.2021                    |
| G1826026                           | OSP                                       | R&S          | OSP 120           | 102040       | N/A                           |
| G1826028                           | Pre-amplifier                             | R&S          | SCU08F1           | 08320031     | 10.08.2021                    |
| G1826029                           | Amplifier                                 | R&S          | SCU-18F           | 180070       | 10.08.2021                    |
| G1826030                           | Amplifier                                 | R&S          | SCU40A            | 100475       | 10.09.2021                    |
| G1826031                           | Trilog Broadband Antenna (30 MHz - 7 GHz) | Schwarzbeck  | VULB 9162         | 193          | 08.08.2022                    |
| G1826032                           | Double-Ridged Antenna (1 -18 GHz)         | ETS-LINDGREN | 3117              | 00218717     | 08.08.2022                    |
| G1826036                           | Test software                             | R&S          | EMC32 (V10.60.10) | N/A          | N/A                           |
| G1826037                           | Control PC                                | Dell         | OptiPlex 7050     | 36NV9P2      | N/A                           |
| G1826433                           | 3m Semi-Anechoic Chamber                  | Albatross    | SAC-3m            | APC17151-SAC | 06.07.2021                    |

## 2.4 TRACEABILITY

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.5 CALIBRATION

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.6 LOCATION OF ORIGINAL DATA

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 STATUS OF FACILITY USED FOR TESTING

The TÜV Rheinland (Shenzhen) Co., Ltd. facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. GENERAL PRODUCT INFORMATION

#### 3.1 PRODUCT FUNCTION AND INTENDED USE

The EUT is a Wireless Temperature Detector.

#### 3.2 RATINGS AND SYSTEM DETAILS

**Table 2: Technical Characteristics of EUT**

| General Information of EUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Description                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Kind of Equipment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wireless Temperature Detector                                                                           |
| Type Designation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DS-PDTPH-E-WB, DS-PDTPH-E-WBUHK, DS-PDTPH-E-WBCKV, DS-PDTPH-E-WBUVS, DS-PDTPH-E-WBKVO, DS-PDTPH-E-WBHUN |
| FCC ID:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2ADTD-D2100001                                                                                          |
| Operating Frequency Band:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 433.05 - 433.75MHz                                                                                      |
| Operating Frequencies:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 433.1MHz, 433.2MHz, 433.3MHz, 433.4MHz, 433.5MHz, 433.6MHz, 433.7MHz                                    |
| Modulation Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FSK                                                                                                     |
| Antenna Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Integral Antenna                                                                                        |
| Antenna Number and Gain:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Antenna number: 1<br>Antenna Gain: -6dBi                                                                |
| Operating Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DC 3V, Battery (AAA x 2)                                                                                |
| Operating Temperature Range:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -10°C ~ +55°C                                                                                           |
| <b>*Remark:</b><br>1) As declared by manufacturer, DS-PDTPH-E-WB, DS-PDTPH-E-WBUHK, DS-PDTPH-E-WBCKV, DS-PDTPH-E-WBUVS, DS-PDTPH-E-WBKVO, DS-PDTPH-E-WBHUN are identical in electronics/electrical designs, including software & firmware, PCB layout. The only difference are model name. Hence the product with model DS-PDTPH-E-WB is chosen for testing.<br>2) According to ANSI C63.10 section 5.6, the frequency range is less than 1MHz, hence middle operating frequency 433.4MHz located in middle range is set for testing. |                                                                                                         |

#### 3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

- A. Transmitting with operating frequency 433.4MHz
- B. Idle

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### **3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS**

Refer to the Circuit Diagram.

### **3.5 SUBMITTED DOCUMENTS**

- |                                                           |                                                          |
|-----------------------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> - Block Diagram       | <input checked="" type="checkbox"/> - Circuit Diagram    |
| <input type="checkbox"/> - PCB Layout                     | <input checked="" type="checkbox"/> - Bill of Material   |
| <input checked="" type="checkbox"/> - Rating Label        | <input checked="" type="checkbox"/> - Instruction Manual |
| <input checked="" type="checkbox"/> - Photo Documentation |                                                          |

## 4. TEST SET-UP AND OPERATION MODES

### 4.1 PRINCIPLE OF CONFIGURATION SELECTION

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 TEST OPERATION AND TEST SOFTWARE

Test operation refers to test setup in chapter 5.

**Table 3: Test Environments**

| Environment Parameter | Selected Values During Tests |                   |                   |
|-----------------------|------------------------------|-------------------|-------------------|
|                       | Temperature                  | Voltage (Battery) | Relative Humidity |
| Normal (NTNV)         | 24°C                         | 3V                | Ambient           |
| LTLV                  | -                            | -                 | -                 |
| LTHV                  | -                            | -                 | -                 |
| HTLV                  | -                            | -                 | -                 |
| HTHV                  | -                            | -                 | -                 |

### 4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

The EUT was tested together with the following accessories:

**Table 4: List of Accessories and Auxiliary Equipment**

| Description | Manufacturer | Model | S/N |
|-------------|--------------|-------|-----|
| --          | --           | --    | --  |

### 4.4 COUNTERMEASURES TO ACHIEVE ERM COMPLIANCE

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

## 4.5 TEST SETUP DIAGRAM

Diagram of Measurement Configuration for Radiation Test

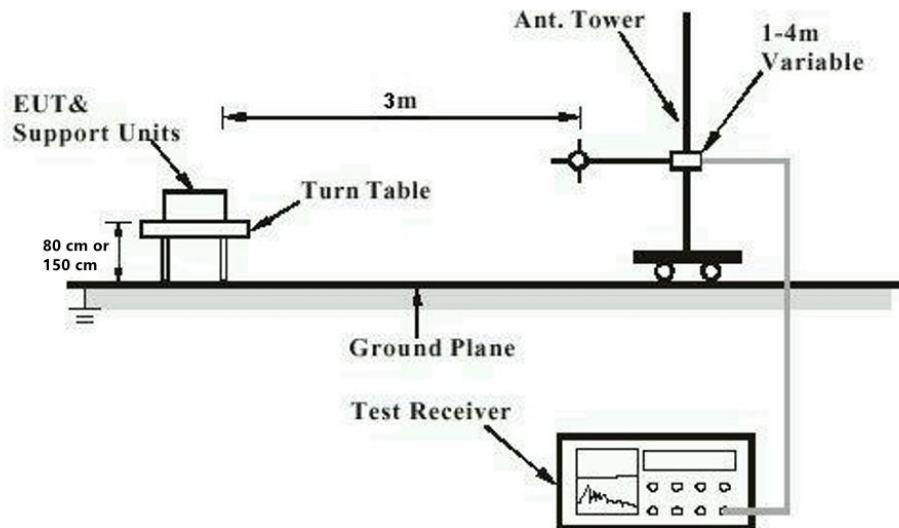
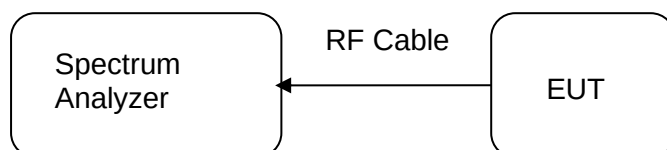


Diagram of Measurement Equipment Configuration for Transmitter Measurement



## 5. TEST RESULTS

### 5.1 Essential Requirements of Standard

#### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

|                   |   |                       |
|-------------------|---|-----------------------|
| Test standard     | : | CFR47 FCC Part 15.203 |
| Limit             | : | CFR47 FCC Part 15.203 |
| Kind of test site | : | Shielding Room        |

#### Test Setup

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2020-12-29 to 2021-01-06 |
| Input voltage        | : | 3V                       |
| Test environment     | : | Normal test conditions   |
| Operation mode       | : | A                        |
| Ambient temperature  | : | 23 °C                    |
| Relative humidity    | : | 50%                      |
| Atmospheric pressure | : | 101.0 kPa                |

According to the manufacturer declared, the EUT has an integral antenna, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

Refer to EUT photo for details.

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## 5.1.2 Deactivation of the Transmission

**RESULT:****Pass****Test Specification**

|                  |   |                                                                                                                                                            |
|------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard    | : | CFR47 FCC Part 15.231                                                                                                                                      |
| Basic standard   | : | ANSI C 63.10:2013                                                                                                                                          |
| Test requirement | : | CFR47 FCC Part 15.231 (a)(1)                                                                                                                               |
| Limit            | : | A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. |
| Test suite       | : | Shielding Room                                                                                                                                             |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2020-12-29 to 2021-01-06 |
| Test environment:    | : | Normal test conditions   |
| Operation mode       | : | A                        |
| Ambient temperature  | : | 24°C                     |
| Relative humidity    | : | 55%                      |
| Atmospheric pressure | : | 101kPa                   |

**Conclusion:**

Refer to attached Appendix A for details of test results.

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### 5.1.3 Periodic Transmissions

**RESULT:****Pass****Test Specification**

|                  |   |                                                                                 |
|------------------|---|---------------------------------------------------------------------------------|
| Test standard    | : | CFR47 FCC Part 15.231                                                           |
| Basic standard   | : | ANSI C 63.10:2013                                                               |
| Test requirement | : | CFR47 FCC Part 15.231 (a)(3)                                                    |
| Limit            | : | Total duration of transmissions does not exceed more than two seconds per hour. |
| Test suite       | : | Shielding Room                                                                  |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2020-12-29 to 2021-01-06 |
| Test environment:    | : | Normal test conditions   |
| Operation mode       | : | B                        |
| Ambient temperature  | : | 24°C                     |
| Relative humidity    | : | 55%                      |
| Atmospheric pressure | : | 101kPa                   |

**Conclusion:**

Refer to attached Appendix A for details of test results.

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### 5.1.4 20dB Emission Bandwidth

**RESULT:****Pass****Test Specification**

|                  |   |                           |
|------------------|---|---------------------------|
| Test standard    | : | CFR47 FCC Part 15.231     |
| Basic standard   | : | ANSI C 63.10:2013         |
| Test requirement | : | CFR47 FCC Part 15.231 (c) |
| Limit            | : | CFR47 FCC Part 15.231 (c) |
| Test suite       | : | 3m Semi Anechoic Room     |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2020-12-29 to 2021-01-06 |
| Test environment:    | : | Normal test conditions   |
| Operation mode       | : | A                        |
| Ambient temperature  | : | 24°C                     |
| Relative humidity    | : | 55%                      |
| Atmospheric pressure | : | 101kPa                   |

**Conclusion:**

Refer to attached Appendix A for details of test results.

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### 5.1.5 Field strength of fundamental and Unwanted Emissions in the Spurious Domain

**RESULT:****Pass****Test Specification**

|                  |   |                                                                         |
|------------------|---|-------------------------------------------------------------------------|
| Test standard    | : | CFR47 FCC Part 15.231<br>CFR47 FCC Part 15.205<br>CFR47 FCC Part 15.209 |
| Basic standard   | : | ANSI C 63.10:2013                                                       |
| Test requirement | : | CFR47 FCC Part 15.231 (b)(1)(2)(3)                                      |
| Limit            | : | CFR47 FCC Part 15.231 (b)                                               |
| Test suite       | : | 3m Semi Anechoic Room                                                   |

**Test Setup**

|                      |   |                          |
|----------------------|---|--------------------------|
| Date of testing      | : | 2020-12-29 to 2021-01-06 |
| Test environment:    | : | Normal test conditions   |
| Operation mode       | : | A                        |
| Ambient temperature  | : | Refer to test data       |
| Relative humidity    | : | Refer to test data       |
| Atmospheric pressure | : | 101kPa                   |

**Conclusion:**

Refer to attached Appendix A for details of test results.

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## 5.1.6 Radio Frequency Exposure Compliance

**RESULT:** Pass

### Test Specification

Test standard : CFR47 FCC Part 2.1093

Limit : FCC KDB Publication 447498 D01 v06

### Measurement Record for CFR47 FCC Part 2.1093

The minimum distance for the EUT is less than 5mm.

The maximum specified e.r.p.: 58.90dBuV/m@3m=-38.51dBm=0.0001mW

According to KDB 447498 D01 v06 appendix A

Exempted Power for this device: 22mW, hence the EUT is compliance with the RF exposure.

## 6. System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

**Table 5: System Measurement Uncertainty**

| Items                               |                                  | Extended Uncertainty |
|-------------------------------------|----------------------------------|----------------------|
| RE                                  | Radiated emission 9 kHz - 30 MHz | ±3.97 dB             |
|                                     | Radiated emission 30 MHz - 1 GHz | ±4.30 dB             |
| Remark: 95% Confidence Levels, K=2. |                                  |                      |

## 7. LIST OF TABLES

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| Table 5: System Measurement Uncertainty.....               | 17 |

# Appendix A

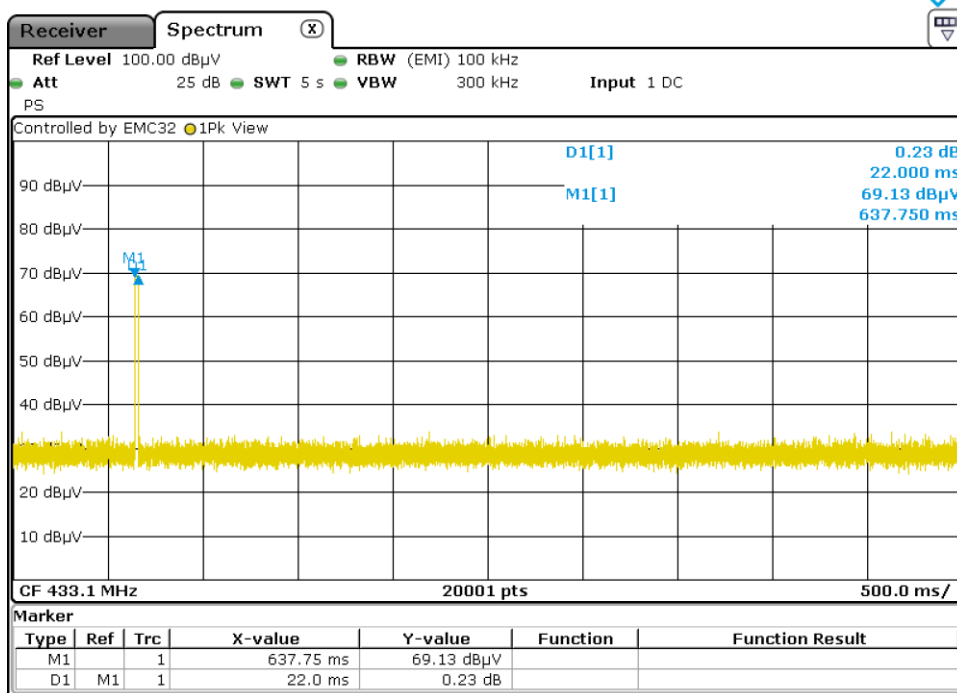
## Test Results

|                                                                                                                        |          |
|------------------------------------------------------------------------------------------------------------------------|----------|
| <b>APPENDIX A.1: TEST RESULTS OF DEACTIVATION OF THE TRANSMISSION.....</b>                                             | <b>2</b> |
| <b>APPENDIX A.2: TEST RESULTS OF PERIODIC TRANSMISSIONS.....</b>                                                       | <b>3</b> |
| <b>APPENDIX A.3: TEST RESULTS OF 20dB EMISSION BANDWIDTH.....</b>                                                      | <b>4</b> |
| <b>APPENDIX A.4: TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL AND UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN .....</b> | <b>5</b> |
| A.4.1 HORIZONTAL.....                                                                                                  | 5        |
| A.4.2 VERTICAL .....                                                                                                   | 7        |

**APPENDIX A.1: TEST RESULTS OF DEACTIVATION OF THE TRANSMISSION**

## Test Results

| Operation Mode | Duration Time (S) | Limit (S) | Result |
|----------------|-------------------|-----------|--------|
| A              | 0.022             | 5         | Pass   |

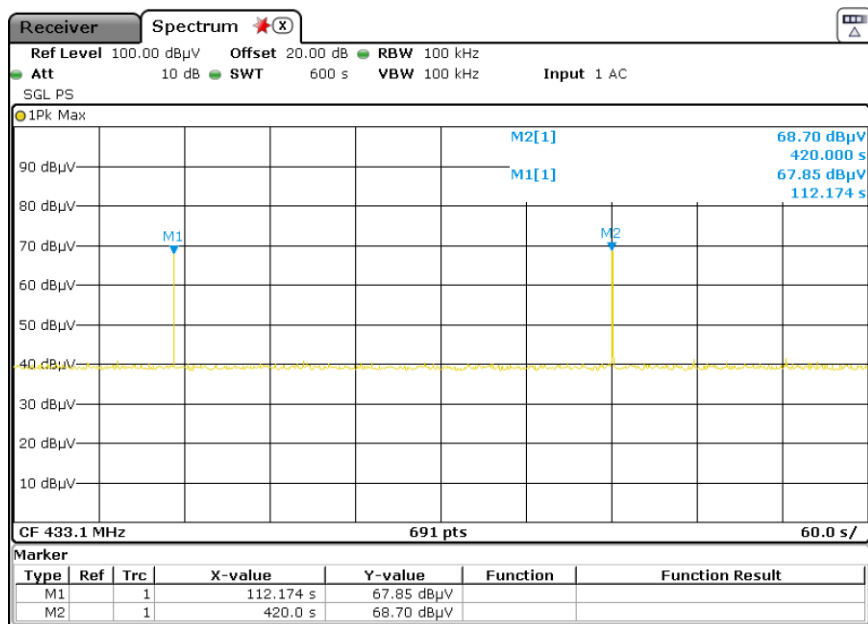
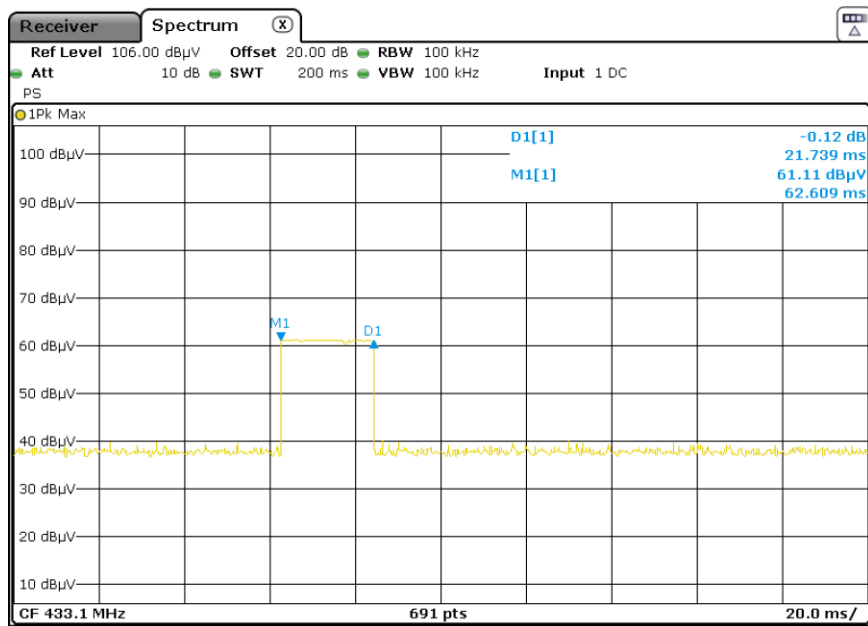


## APPENDIX A.2: TEST RESULTS OF PERIODIC TRANSMISSIONS

### Test Results

| Operation Mode | Duration Time (S) | Limit       | Result |
|----------------|-------------------|-------------|--------|
| B              | 0.261             | 2s / 1 Hour | Pass   |

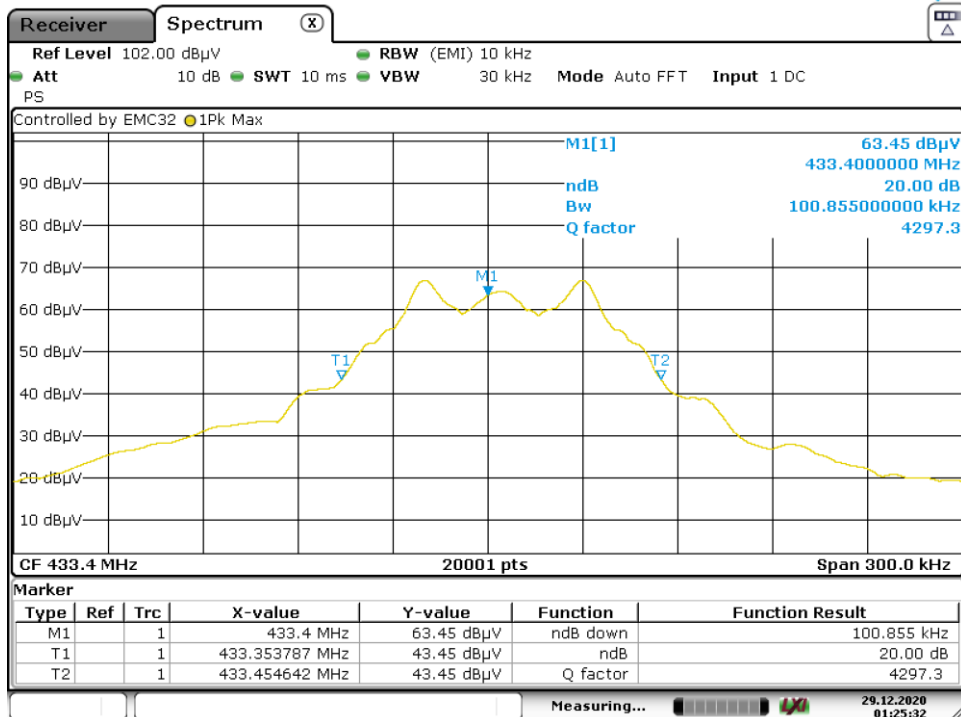
As declared by manufacturer, the EUT transmits an identical data package to the Host per 5 minutes, hence in one hour, the EUT transmits 12 data packages to the Host, and the duration time =  $21.739\text{ms} \times 12 = 0.261\text{s}$ .



**APPENDIX A.3: TEST RESULTS OF 20dB EMISSION BANDWIDTH**

## Test Results

| Operation Frequency (MHz) | 20dB Emission Bandwidth (MHz) | Limit (MHz) | Result |
|---------------------------|-------------------------------|-------------|--------|
| 433.4                     | 0.101                         | 1.084       | Pass   |

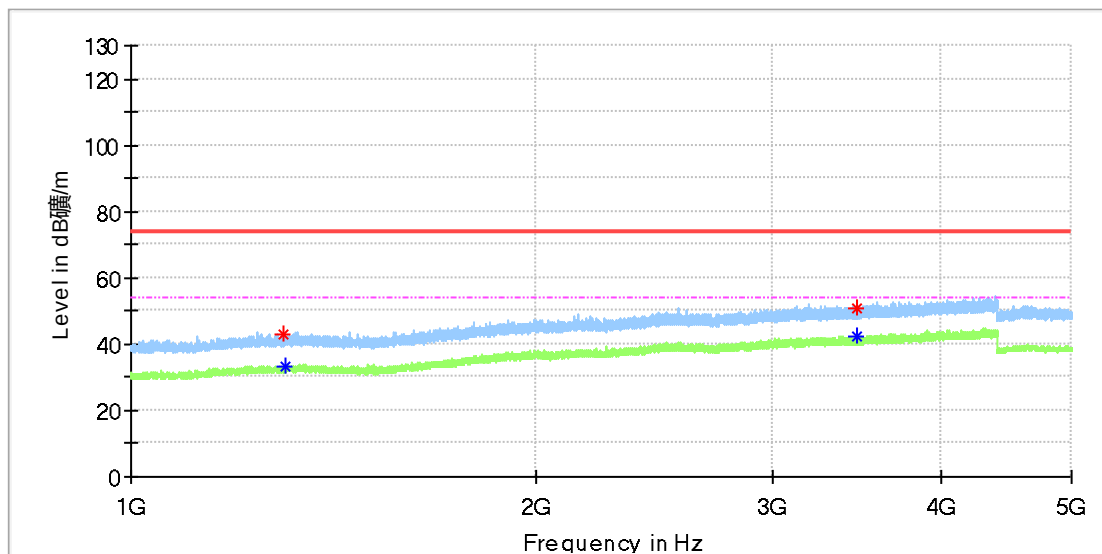


Date: 29.DEC.2020 01:25:32

| Frequency<br>(MHz) | QuasiPeak | MaxPeak | Limit<br>(dBμV/m) | Margin | Height | Pol | Azimuth | Corr.<br>(dB) |
|--------------------|-----------|---------|-------------------|--------|--------|-----|---------|---------------|
| ---                | ---       | ---     | ---               | ---    | ---    |     | ---     | ---           |

## EUT Information

|                |                               |
|----------------|-------------------------------|
| EUT Name:      | Wireless Temperature Detector |
| Model:         | DS-PDTPH-E-WB                 |
| Test Mode:     | TX                            |
| Test Voltage:: | Battery                       |
| Remark:        | Temp 24 Humi:47%              |
| Test Standard: | FCC Part 15C                  |
| Tested By:     | Alano Qu                      |
| Reviewed By:   | Terry Yin                     |



## Critical\_Freqs

| Frequency<br>(MHz) | MaxPeak | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin | Height | Pol | Azimuth | Corr.<br>(dB/m) |
|--------------------|---------|---------------------|-------------------|--------|--------|-----|---------|-----------------|
| 1300.050000        | 42.78   | ---                 | 74.00             | 31.22  | 100.0  | H   | 311.0   | 1.9             |
| 1300.730000        | ---     | 33.19               | 54.00             | 20.81  | 100.0  | H   | 78.0    | 1.9             |
| 3467.210000        | ---     | 42.49               | 54.00             | 11.51  | 100.0  | H   | 321.0   | 8.9             |
| 3467.380000        | 51.07   | ---                 | 74.00             | 22.93  | 100.0  | H   | 129.0   | 8.9             |

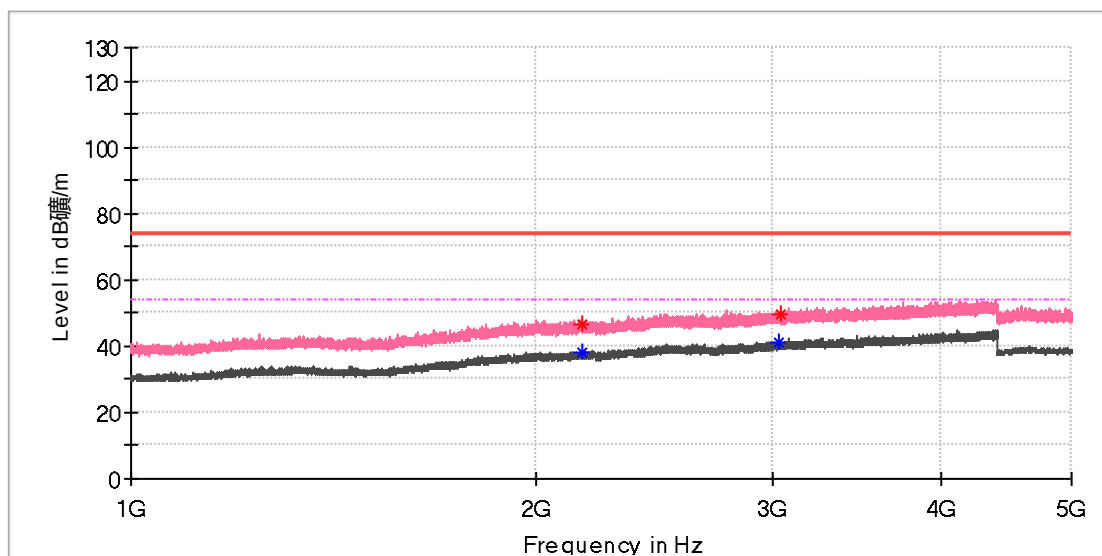
## Final\_Result

| Frequency<br>(MHz) | QuasiPeak | MaxPeak | Limit<br>(dBμV/m) | Margin | Height | Pol | Azimuth | Corr.<br>(dB) |
|--------------------|-----------|---------|-------------------|--------|--------|-----|---------|---------------|
| 100.0              | 100.0     | 100.0   | 100.0             | 100.0  | 100.0  |     | 100.0   | 100.0         |

| Frequency (MHz) | QuasiPeak | MaxPeak | Limit (dBμV/m) | Margin | Height | Pol | Azimuth | Corr. (dB) |
|-----------------|-----------|---------|----------------|--------|--------|-----|---------|------------|
| ---             | ---       | ---     | ---            | ---    | ---    |     | ---     | ---        |

## EUT Information

|                |                               |
|----------------|-------------------------------|
| EUT Name:      | Wireless Temperature Detector |
| Model:         | DS-PDTPH-E-WB                 |
| Test Mode:     | TX                            |
| Test Voltage:: | Battery                       |
| Remark:        | Temp 24 Humi:47%              |
| Test Standard: | FCC Part 15C                  |
| Tested By:     | Alano Qu                      |
| Reviewed By:   | Terry Yin                     |



## Critical\_Freqs

| Frequency<br>(MHz) | MaxPeak | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin | Height | Pol | Azimuth | Corr.<br>(dB/m) |
|--------------------|---------|---------------------|-------------------|--------|--------|-----|---------|-----------------|
| 2166.880000        | ---     | 38.02               | 54.00             | 15.98  | 100.0  | V   | 291.0   | 6.2             |
| 2167.390000        | 46.76   | ---                 | 74.00             | 27.24  | 100.0  | V   | 127.0   | 6.2             |
| 3032.520000        | ---     | 40.99               | 54.00             | 13.01  | 100.0  | V   | 359.0   | 8.6             |
| 3037.280000        | 49.59   | ---                 | 74.00             | 24.41  | 100.0  | V   | 78.0    | 8.6             |

## Final Result

| Frequency<br>(MHz) | QuasiPeak | MaxPeak | Limit<br>(dBμV/m) | Margin | Height | Pol | Azimuth | Corr.<br>(dB) |
|--------------------|-----------|---------|-------------------|--------|--------|-----|---------|---------------|
| 100.0              | 100.0     | 100.0   | 100.0             | 100.0  | 100.0  |     | 100.0   | 100.0         |