

EMI TEST REPORT

Test Report No. 15141991H-A-R1

| Customer | Panasonic Corporation of North America |
|---------------------|--|
| Description of EUT | Cooling BOX |
| Model Number of EUT | AE-VU0GPR |
| FCC ID | ACJAE-VU0GPR |
| Test Regulation | FCC Part 15 Subpart B, Class A |
| Test Result | Complied |
| Issue Date | April 15, 2024 |
| Remarks | - |

| Representative test engineer | Approved by |
|--|--|
| J. Fragatomi | T. Shimada |
| Junki Nagatomi Engineer | Takumi Shimada Engineer |
| | ACCREDITED CERTIFICATE 5107.02 |
| The testing in which "Non-accreditation" is displayed is There is no testing item of "Non-accreditation". | outside the accreditation scopes in UL Japan, Inc. |
| I Marie is no testing item of Mon-accreditation. | |

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 23.0

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REVISION HISTORY

Original Test Report No. 15141991H-A

This report is a revised version of 15141991H-A. 15141991H-A is replaced with this report.

| Revision | Test Report No. | Date | Page Revised Contents |
|------------|-----------------|----------------|---|
| - | 15141991H-A | March 18, 2024 | - |
| (Original) | | | |
| 1 | 15141991H-A-R1 | April 15, 2024 | SECTION 5: Radiated Emission |
| | | | Figure 1: Test Setup |
| | | | -Correction of following sentence. |
| | | | The test was made on EUT at the normal use |
| | | | position. → |
| | | | The noise levels were confirmed at each position of |
| | | | X, Y and Z axes of EUT to see the position of |
| | | | maximum noise, and the test was made at the |
| | | | position that has the maximum noise. |
| 1 | 15141991H-A-R1 | April 15, 2024 | APPENDIX 3: Photographs of test setup |
| | | | -Addition of photographs for worst case position |
| | | | (Horizontal: X-axis / Vertical: Xaxis). |

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Reference: Abbreviations (Including words undescribed in this report)

| A2LA | The American Association for Laboratory Accreditation | Hori. | Horizontal |
|------------------|--|-----------------|---|
| AAN | Asymmetric Artificial Network | ICES | Interference-Causing Equipment Standard |
| AC | Alternating Current | I/O | Input/Output |
| AE | Auxiliary equipment | IEC | International Electrotechnical Commission |
| AM | Amplitude Modulation | IEEE | Institute of Electrical and Electronics Engineers |
| AMN | Artificial Mains Network | IF | Intermediate Frequency |
| Amp, AMP | Amplifier | ILAC | International Laboratory Accreditation Conference |
| ANSI | American National Standards Institute | ISED | Innovation, Science and Economic Development Canada |
| Ant, ANT | Antenna | ISN | Impedance Stabilization Network |
| AP | Access Point | ISO | International Organization for Standardization |
| ASK | Amplitude Shift Keying | JAB | Japan Accreditation Board |
| Atten., ATT | Attenuator | LAN | Local Area Network |
| AV | Average | LCL | Longitudinal Conversion Loss |
| BPSK | Binary Phase-Shift Keying | LIMS | Laboratory Information Management System |
| BR | Bluetooth Basic Rate | LISN | Line Impedance Stabilization Network |
| ВТ | Bluetooth | MRA | Mutual Recognition Arrangement |
| BT LE | Bluetooth Low Energy | N/A | Not Applicable |
| BW | BandWidth | NIST | National Institute of Standards and Technology |
| C.F | Correction Factor | NS | No signal detect. |
| Cal Int | Calibration Interval | NSA | Normalized Site Attenuation |
| CAV | CISPR AV | OBW | Occupied BandWidth |
| CCK | Complementary Code Keying | OFDM | Orthogonal Frequency Division Multiplexing |
| CDN | Coupling Decoupling Network | PER | Packet Error Rate |
| Ch., CH | Channel | PK | Peak |
| CISPR | Comite International Special des Perturbations Radioelectriques | P _{LT} | long-term flicker severity |
| Corr. | Correction | POHC(A) | Partial Odd Harmonic Current |
| CPE | Customer premise equipment | Pol., Pola. | Polarization |
| CW | Continuous Wave | PR-ASK | Phase Reversal ASK |
| DBPSK | Differential BPSK | P _{ST} | short-term flicker severity |
| DC | Direct Current | QAM | Quadrature Amplitude Modulation |
| DET | Detector | QP | Quasi-Peak |
| D-factor, D.fac. | Distance factor | QPSK | Quadrature Phase Shift Keying |
| Dmax | maximum absolute voltage change during an observation period | r.m.s., RMS | Root Mean Square |
| DQPSK | Differential QPSK | RBW | Resolution BandWidth |
| DSSS | Direct Sequence Spread Spectrum | RE | Radio Equipment |
| DUT | Device Under Test | REV | Reverse |
| EDR | Enhanced Data Rate | RF | Radio Frequency |
| e.i.r.p., EIRP | Equivalent Isotropically Radiated Power | RFID | Radio Frequency Identifier |
| EM clamp | Electromagnetic clamp | RNSS | Radio Navigation Satellite Service |
| EMC | ElectroMagnetic Compatibility | RSS | Radio Standards Specifications |
| EMI | ElectroMagnetic Interference | Rx | Receiving |
| EMS | ElectroMagnetic Susceptibility | S.fac. | Site factor |
| EN | European Norm | SINAD | Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) |
| e.r.p., ERP | Effective Radiated Power | S/N | Signal to Noise ratio |
| ETSI | European Telecommunications Standards Institute | SA, S/A | Spectrum Analyzer |
| EU | European Union | SABS | South African Bureau of Standards |
| EUT | Equipment Under Test | SANS | South African National Standards |
| Fac. | Factor | SG | Signal Generator |
| FCC | Federal Communications Commission | SVSWR | Site-Voltage Standing Wave Ratio |
| FHSS | Frequency Hopping Spread Spectrum | THC(A) | Total Harmonic Current |
| FM | Frequency Modulation | THD(%) | Total Harmonic Distortion |
| Freq. | Frequency | TR, T/R | Test Receiver |
| FSK | Frequency Shift Keying | Tx | Transmitting |
| Fund | Fundamental | UFA | Uniform field area |
| FWD | Forward | VBW | Video BandWidth |
| GFSK | Gaussian Frequency-Shift Keying | Vert. | Vertical |
| GNSS | Global Navigation Satellite System | WLAN | Wireless LAN |
| GPS | Global Positioning System | xDSL | Generic term for all types of DSL technology (DSL: Digital Subscriber Line) |

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| Radiated Emission | |

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SECTION 1: Customer information

| Company Name | Panasonic Corporation of North America *1) | |
|------------------|---|--|
| Address | Two Riverfront Plaza, Newark, NJ 07102-5490, U.S.A. | |
| Telephone Number | +1-201-348-7760 | |
| Contact Person | Ben Botros | |

*1) Remarks:

Panasonic Corporation is on behalf of the applicant: Panasonic Corporation of North America (Company incorporated abroad).

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

SECTION 2: Equipment under test (EUT)

2.1 Identification of EUT

| Description | Cooling BOX |
|---------------|---|
| Model Number | AE-VU0GPR |
| Serial Number | Refer to SECTION 4.2 |
| Condition | Production prototype |
| | (Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification | No Modification by the test lab |
| Receipt Date | February 1 and 15, 2024 |
| Test Date | February 26, 2024 |

2.2 Product Description

General Specification

| Rating | None (supplied by NFC) |
|-----------------------|------------------------|
| Clock frequency (ies) | 16 MHz |
| in the system | |

Radio Specification

| Radio Type | Passive Tag |
|------------------------|-------------|
| Frequency of Operation | 13.56 MHz |
| Type of Modulation | ASK |

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SECTION 3: Test specification, procedures & results

3.1 **Test Specification**

| Test Specification | FCC Part 15 Subpart B The latest version on the first day of the testing period |
|--------------------|---|
| Title | FCC 47CFR Part15 Radio Frequency Device Subpart B Unintentional Radiators |

3.2 **Procedures and results**

| Item | Test Procedure | Limits | Worst margin | Result | Remarks |
|--------------------|--|---------|---|----------|---------|
| Conducted emission | ANSI C63.4: 2014 + C63.4a: 2017 | Class A | - | N/A | *1) |
| | 7. AC power - line conducted emission measurements | | | | |
| Radiated emission | ANSI C63.4: 2014 C63.4a: 2017 8. Radiated | Class A | 16.79 dB 30.000 MHz, Horizontal, QP | Complied | *2) |
| | emission measurements | | | | |

^{*} Note: UL Japan, Inc.'s EMI Work Procedure: Work Instructions-ULID-003591.

3.3 Addition to standard

No addition, exclusion nor deviation has been made from the standard.

^{*1)} The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.
*2) Measurements were limited up to 1 GHz since the highest frequency of internal source of the EUT is less than

¹⁰⁸ MHz.

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3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement. Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor k = 2.

Radiated emission

| Measurement | Frequency range | | Unit | Calculated |
|-------------|---------------------|-------------------|------|-------------------|
| distance | | | | Uncertainty (+/-) |
| 3 m | _ 9 kHz to 30 MHz | | dB | 3.3 |
| 10 m | | | dB | 3.1 |
| 3 m | 30 MHz to 200 MHz | Horizontal | dB | 4.8 |
| | | Vertical | dB | 5.0 |
| | 200 MHz to 1000 MHz | Horizontal | dB | 5.1 |
| | | Vertical | dB | 6.2 |
| 10 m | 30 MHz to 200 MHz | Horizontal | dB | 4.8 |
| | | Vertical | dB | 4.8 |
| | 200 MHz to 1000 MHz | Horizontal | dB | 4.9 |
| | | Vertical | dB | 5.0 |
| 3 m | 1 GHz to 6 GHz | Test Receiver | dB | 5.1 |
| | | Spectrum Analyzer | dB | 4.9 |
| | 6 GHz to 18 GHz | Test Receiver | dB | 5.4 |
| | | Spectrum Analyzer | dB | 5.2 |
| 1 m | 10 GHz to 18 GHz | Spectrum analyzer | dB | 5.0 |
| | 18 GHz to 26.5 GHz | Spectrum analyzer | dB | 5.6 |
| | 26.5 GHz to 40 GHz | Spectrum analyzer | dB | 4.9 |
| 0.5 m | 26.5 GHz to 40 GHz | Spectrum analyzer | dB | 4.9 |
| 10 m | 1 GHz to 18 GHz | Test Receiver | dB | 5.4 |

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3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

| Test site | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Other rooms | Maximum measurement distance | |
|----------------------------|-------------------------------|--|------------------------|------------------------------------|--|
| No.1 semi-anechoic chamber | 19.2 x 11.2 x 7.7 | 7.0 x 6.0 | No.1 Power source room | 10 m | |
| No.2 semi-anechoic chamber | 7.5 x 5.8 x 5.2 | 4.0 x 4.0 | - | 3 m | |
| No.3 semi-anechoic chamber | 12.0 x 8.5 x 5.9 | 6.8 x 5.75 | No.3 Preparation room | 3 m | |
| No.3 shielded room | 4.0 x 6.0 x 2.7 | N/A | - | - | |
| No.4 semi-anechoic chamber | 12.0 x 8.5 x 5.9 | 6.8 x 5.75 | No.4 Preparation room | 3 m | |
| No.4 shielded room | 4.0 x 6.0 x 2.7 | N/A | - | - | |
| No.5 semi-anechoic chamber | 6.0 x 6.0 x 3.9 | 6.0 x 6.0 | - | - | |
| No.5 measurement room | 6.4 x 6.4 x 3.0 | 6.4 x 6.4 | - | - | |
| No.6 shielded room | 4.0 x 4.5 x 2.7 | 4.0 x 4.5 | - | - | |
| No.6 measurement room | 4.75 x 5.4 x 3.0 | 4.75 x 4.15 | - | - | |
| No.7 shielded room | 4.7 x 7.5 x 2.7 | 4.7 x 7.5 | - | - | |
| No.8 measurement room | 3.1 x 5.0 x 2.7 | 3.1 x 5.0 | - | - | |
| No.9 measurement room | 8.8 x 4.6 x 2.8 | 2.4 x 2.4 | - | - | |
| No.10 shielded room | 3.8 x 2.8 x 2.8 | 3.8 x 2.8 | - | - | |
| No.11 measurement room | 4.0 x 3.4 x 2.5 | N/A | - | - | |
| No.12 measurement room | 2.6 x 3.4 x 2.5 | N/A | - | - | |
| Large Chamber | 16.9 x 22.1 x 10.17 | 16.9 x 22.1 | - | 10 m | |
| Small Chamber | 5.3 x 6.69 x 3.59 | 5.3 x 6.69 | - | - | |

3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

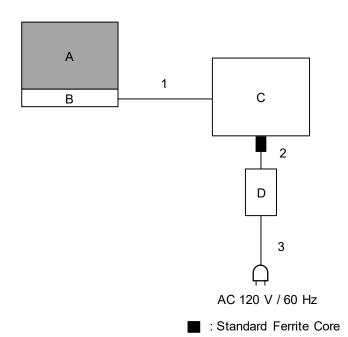
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SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

| Mode | RFID Communication mode |
|-------------|--|
| Software(s) | VIXELL Perfomance Inspection Ver.1.05E |

4.2 Configuration and peripherals



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support Equipment

| Desc | Description of Lot and Support Equipment | | | | | | | | | | |
|------|--|--------------------|------------------|------------------|---------|--|--|--|--|--|--|
| No. | Item | Model number | Serial Number | Manufacturer | Remarks | | | | | | |
| Α | Cooling BOX | AE-VU0GPR | 24020814230500 | Panasonic | EUT | | | | | | |
| | | | | Corporation | | | | | | | |
| В | RFID Read and | AMI2450X/08C/U-PAP | 7E5310006 | Art Finex Co,Ltd | - | | | | | | |
| | Writer | | | | | | | | | | |
| С | Laptop PC | CF-NX1GWGYS | 2KKSA14614 | Panasonic | - | | | | | | |
| D | AC Adapter | CF-AA6412C | 6412CM112714770A | Panasonic | - | | | | | | |

List of Cables Used

| No. | Name | Length (m) | Shield | Remarks | |
|-----|-----------|------------|------------|------------|---|
| | | | Cable | Connector | |
| 1 | USB Cable | 1.8 | Shielded | Shielded | - |
| 2 | DC Cable | 0.9 | Unshielded | Unshielded | - |
| 3 | AC Cable | 0.8 | Unshielded | Unshielded | - |

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SECTION 5: Radiated Emission

5.1 Operating environment

Date : See data
Test place : See data
Temperature : See data
Humidity : See data
Test engineer : See data

5.2 Test configuration

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The EUT was set on the edge of the tabletop.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

Photographs of the set up are shown in APPENDIX 3.

5.3 Test conditions

Frequency range : 30 MHz to 200 MHz (Biconical antenna)

200 MHz to 1000 MHz (Logperiodic antenna)

Test distance : 10 m
EUT position : Table top
EUT operation mode : See Clause 4.1

5.4 Test procedure

The height of the measuring antenna varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver.

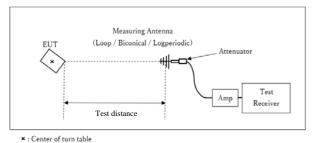
The radiated emission measurements were made with the following detector function of the Test Receiver.

| Frequency | Below 1 GHz |
|-----------------|----------------|
| Instrument used | Test Receiver |
| IF Bandwidth | QP: BW 120 kHz |

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Figure 1: Test Setup

Below 1 GHz



Test Distance: 10 m

The noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

5.5 Test result

Summary of the test results: Pass

The limit is rounded down to one decimal place.

The test result is rounded off to one or two decimal places, so some differences might be observed.

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APPENDIX 1: Test data

Radiated Emission

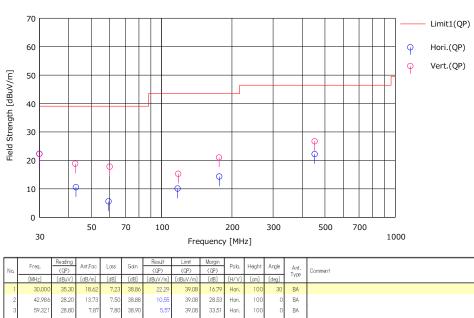
Test place Ise EMC Lab.

Semi Anechoic Chamber No.1

Date February 26, 2024
Temperature / Humidity 20 deg. C / 40 % RH
Engineer Junki Nagatomi
(Below 1 GHz)

Mode 1

Limit: FCC_Part 15 Subpart B(15.109)_Class A



| N | ٥. ا | Freq. | (QP) | Ant Fac | Loss | Gain | (QP) | (QP) | (QP) | Pola. | Height | Angle | Ant. | Comment |
|---|------|---------|--------|---------|-------|-------|----------|----------|-------|-------|--------|-------|------|---------|
| | ľ | [MHz] | [dBuV] | [dB/m] | [dB] | [dB] | [dBuV/m] | [dBuV/m] | [dB] | [H/V] | [cm] | [deg] | Type | |
| | 1 | 30.000 | 35.30 | 18.62 | 7.23 | 38.86 | 22.29 | 39.08 | 16.79 | Hori. | 100 | 30 | BA | |
| | 2 | 42.986 | 28.20 | 13.73 | 7.50 | 38.88 | 10.55 | 39.08 | 28.53 | Hori. | 100 | 0 | BA | |
| | 3 | 59.321 | 28.80 | 7.87 | 7.80 | 38.90 | 5.57 | 39.08 | 33.51 | Hori. | 100 | 0 | BA | |
| | 4 | 117.128 | 28.10 | 12.32 | 8.62 | 38.96 | 10.08 | 43.52 | 33,44 | Hori. | 100 | 3 | BA | |
| | 5 | 176.626 | 28.00 | 16.00 | 9.29 | 38.97 | 14.32 | 43.52 | 29.20 | Hori. | 100 | 5 | BA | |
| | 6 | 452.121 | 32.50 | 16.62 | 11.53 | 38.45 | 22.20 | 46.44 | 24.24 | Hori. | 171 | 12 | LA17 | |
| | 7 | 30.000 | 35.30 | 18.62 | 7.23 | 38.86 | 22.29 | 39.08 | 16.79 | Vert. | 100 | 30 | BA | |
| | 8 | 42.717 | 36.40 | 13.82 | 7.49 | 38.88 | 18.83 | 39.08 | 20.25 | Vert. | 100 | 2 | BA | |
| | 9 | 59.998 | 41 20 | 7.67 | 7.81 | 38.90 | 17.78 | 39.08 | 21.30 | Vert. | 226 | 121 | BA | |
| 1 | 10 | 117,887 | 33.20 | 12.41 | 8.62 | 38.96 | 15.27 | 43.52 | 28.25 | Vert. | 118 | 99 | BA | |
| 1 | п | 176,301 | 34.70 | 15.99 | 9.29 | 38.97 | 21.01 | 43.52 | 22.51 | Vert. | 100 | 292 | BA | |
| 1 | 12 | 452.121 | 37.00 | 16.62 | 11.53 | 38.45 | 26.70 | 46.44 | 19.74 | Vert. | 100 | 166 | LA17 | |
| | - | | | | | | | | | | | | | |
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CHART: WITH FACTOR

ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + ATT) - GAIN(AMP) Except for the above table: adequate margin data below the limits.

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APPENDIX 2: Test instruments

Test equipment

| Test Item | LIMS ID | Description | Manufacturer | Model | Serial | Last Calibration Date | Cal Int |
|--------------|---------|------------------------------------|------------------------------------|------------------------------|----------|-----------------------------|---------|
| RE | 141198 | Biconical Antenna | Schwarzbeck Mess-Elektronik OHG | VHA9103+ BBA9106 | 2513 | 06/06/2023 | 12 |
| RE | 141213 | Attenuator (6dB) | Weinschel Corp | 2 | BK7971 | 11/16/2023 | 12 |
| RE | 141350 | Coaxial Cable | Suhner/storm/Agilent/TSJ | - | - | 03/03/2023 | 12 |
| RE | 141530 | Digital Tester | Fluke Corporation | FLUKE 26-3 | 78030621 | 02/01/2024 | 12 |
| RE | 141566 | Thermo-Hygrometer | ermo-Hygrometer CUSTOM. Inc CTH-20 | | A08Q26 | - | - |
| RE | 141585 | Pre Amplifier | L3 Narda-MITEQ | MLA-10K01-B01-35 | 1237616 | 02/17/2024 | 12 |
| RE | 141950 | EMI Test Receiver | Rohde & Schwarz | ESU26 | 100412 | 11/20/2023 | 12 |
| RE | 141998 | AC1_Semi Anechoic Chamber (NSA) | TDK | Semi Anechoic Chamber 10m | DA-06881 | 12/06/2023 | 24 |
| RE | 142226 | Measure, Tape, Steel | KOMELON | KMC-36 | - | - | - |
| RE | 160924 | Logperiodic Antenna | Schwarzbeck Mess-Elektronik OHG | VUSLP9111B | 225 | 11/29/2023 | 12 |
| RE | 178648 | EMI measurement program | TSJ (Techno Science Japan) | TEPTO-DV | - | - | - |

^{*}Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month. As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

RE: Radiated emission