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F690501-RF-RTL004350 Report Number:

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of 18

TEST REPORT

of

FCC Part 95 Subpart C IC RSS-210 Issue 10 and RSS-Gen Issue 5

FCC ID: SWN-TD41UT IC Certification: 12166A-TD41UT

Equipment Under Test : DOG TRAINING DEVICE

Model Name

: EDGE RT

Variant Model Name(s) : -

Applicant

: Dogtra Co., Ltd.

Manufacturer

: Dogtra Co., Ltd.

Date of Receipt

: 2023.07.10

Date of Test(s)

: 2023.07.12 ~ 2023.08.31

Date of Issue

: 2023.08.31

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

1) The results of this test report are effective only to the items tested.

Muphy Kim

- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
- 3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
- 4) The data marked \times in this report was provided by the customer and may affect the validity of the test results. We are responsible for all the information of this test report except for the data(X) provided by the customer

Tested by:

Technical Manager:

Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

RTT7081-02(2020.10.05)(0)

A4(210 mm x 297 mm)



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

- 4, LS-ro 182beon-gil. Gunpo-si, Gyeonggi-do, Korea, 15807

- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

Telephone : +82 31 688 0901 FAX : +82 31 688 0921

1.2. Details of Applicant

Applicant : Dogtra Co., Ltd.

Address : 35, Namdongdong-ro 33beon-gil, Namdong-gu, Incheon, South Korea, 21694

Contact Person : Chae, Yong-byeong Phone No. : +82 32 812 2449

1.3. Details of Manufacturer

Company : Same as Applicant Address : Same as Applicant

1.4. Description of EUT

| Kind of Product | DOG TRAINING DEVICE |
|-------------------|---------------------------------|
| Model Name | EDGE RT |
| Serial Number | Conducted: 001 Radiated: 002 |
| Power Supply | DC 7.4 V |
| Frequency Range | 27.195 Mb |
| Modulation Type | FSK |
| Number of Channel | 1 |
| Antenna Type | Helical Antenna |
| Antenna Gain* | 0 dBi |
| H/W Version | EDGE RT Tx_NTC_Rev2.1 |
| S/W Version | EDGERT_tx_ver07 |
| FVIN | N/A |



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1.5. Test Equipment List

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Interval | Cal. Due |
|-------------------|--------------------------------|--------------------------------------|---------------------------|---------------|------------------|---------------|
| Signal Generator | R&S | SMA100B | 106887 | Dec. 13, 2022 | Annual | Dec. 13, 2023 |
| Spectrum Analyzer | R&S | FSV30 | 103453 | Nov. 01, 2022 | Annual | Nov. 01, 2023 |
| DC Power Supply | R&S | HMP2020 | 020089489 | May 11, 2023 | Annual | May 11, 2024 |
| Attenuator | AEROFLEX / INMET | 40AH2W-10 | 40G-1 | Jun. 14, 2023 | Annual | Jun. 14, 2024 |
| Preamplifier | H.P. | 8447F | 2944A03909 | Aug. 04, 2023 | Annual | Aug. 04, 2024 |
| Loop Antenna | Schwarzbeck Mess-Elektronik | FMZB 1519 | 1519-039 | Aug. 21, 2023 | Biennial | Aug. 21, 2025 |
| Bilog Antenna | Schwarzbeck Mess-Elektronik | VULB 9163 | 01126 | Feb. 09, 2023 | Annual | Feb. 09, 2024 |
| Test Receiver | R&S | ESU26 | 100109 | Jan. 18, 2023 | Annual | Jan. 18, 2024 |
| Turn Table | Innco systems GmbH | DS 1200 S | N/A | N.C.R. | N/A | N.C.R. |
| Controller | Innco systems GmbH | CONTROLLER CO3000-4P | CO3000/963/38 330516/L | N.C.R. | N/A | N.C.R. |
| Antenna Mast | Innco systems GmbH | MA4640-XP-ET | MA4640/536/38 330516/L | N.C.R. | N/A | N.C.R. |
| Anechoic Chamber | SY Corporation | L × W × H (9.6 m × 6.4 m × 6.6 m) | N/A | N.C.R. | N/A | N.C.R. |
| Coaxial Cable | RFONE | MWX221-NMSNMS (4 m) | J1023142 | Apr. 04, 2023 | Semi- Annual | Oct. 04, 2023 |
| Coaxial Cable | Qualwave Inc. | QA500-18-NN-10 (10 m) | 22200114 | Apr. 04, 2023 | Semi- Annual | Oct. 04, 2023 |
| Coaxial Cable | RFONE | PL360P-292M292M-1.5 M-A | 20200324002 | Apr. 14, 2023 | Semi- Annual | Oct. 14, 2023 |

Note;

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date



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1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 95 Subpart C, RSS-210 Issue 10 and RSS-Gen Issue 5 | | | | | | |
|---|------------------------------------|--------------------|----------|--|--|--|
| Section in FCC | Section in IC | Test Item(s) | Result | | | |
| 95.767 (b) | RSS-210 Issue 10 Annex A.2.1(c) | RF Output Power | Complied | | | |
| 95.773 | RSS-210 Issue 10 Annex A.2.1(e) | Occupied Bandwidth | Complied | | | |
| 95.779 (a)(1)(2) | RSS-210 Issue 10 Annex A.2.1(g) | Emission Mask | Complied | | | |
| 95.779 (a)(3) | RSS-210 Issue 10 Annex A.2.1(g) | Unwanted Emissions | Complied | | | |
| 95.765 (b) | RSS-210 Issue 10 Annex A.2.1(f) | Frequency Accuracy | Complied | | | |

1.7. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter | Uncertainty | | |
|------------------------------------|----------------|----------------|--|
| RF Output Power | 0.33 dB | | |
| Occupied Bandwidth | 0.04 kHz | | |
| Frequency Accuracy | 0.11 kHz | | |
| Padiated Emission O. He to 20 Mile | Н | 3.40 dB | |
| Radiated Emission, 9 kHz to 30 MHz | V | 3.40 dB | |
| Padiated Emission halou 1 Ne | Н | 4.50 dB | |
| Radiated Emission, below 1 Glz | V | 5.10 dB | |

All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95 % level of confidence.

1.8. Test Report Revision

| Revision | Report Number | Date of Issue | Description | |
|----------|----------------------|---------------|-------------|--|
| 0 | F690501-RF-RTL004350 | 2023.08.31 | Initial | |



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2. RF Output Power

2.1. Test Setup



2.2. Limit

2.2.1. FCC

According to §95.767 (b), 26-28 Mb frequency band. For an RCRS transmitter operating on 26.995, 27.045, 27.095, 27.145, or **27.195** Mb, the mean transmitter output power must not exceed 4 Watts.

2.2.2. IC

According to RSS-210 Issue 10 Annex A.2.1(c), For double sideband (DSB), digital or frequency modulation (FM), the transmitter unmodulated carrier power shall not exceed 4 W.

2.3. Test Procedures

2.3.1. Mean Transmitter Output Power

- 1. The equipment under test is connected to the spectrum analyzer.
- 2. The spectrum analyzer is set to the as follow;

RBW: 1 % to 5 % of the OBW

VBW: 3 x RBW Detector: RMS

Trace Average at least 100 traces in power averaging mode.

3. Using the instrument's channel power measurement function.

2.3.2. Unmodulated Carrier Power

- 1. The equipment under test is connected to the spectrum analyzer.
- 2. The spectrum analyzer is set to the as follow;

RBW: 10 kllz VBW: 3 x RBW

Detector function: Peak

Trace: Max hold

3. The output power of fundamental frequency was measured and recorded.



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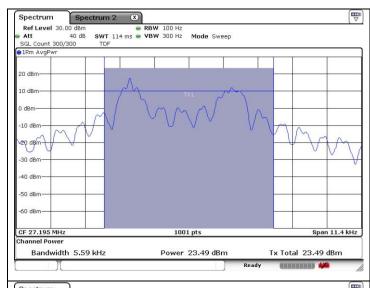
2.4. Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

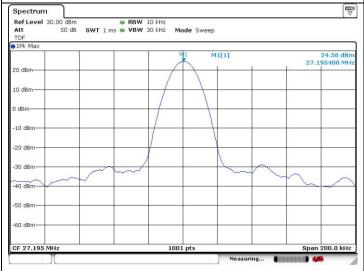
| Frequency | Mean Tra Output | nsmitter Power | Unmodulated Carrier Power | | Limit |
|-----------|--------------------|-------------------|------------------------------|-------|-------|
| (MHz) | (dB m) | (W) | (dB m) | (W) | (W) |
| 27.195 | 23.49 | 0.223 | 24.56 | 0.286 | 4 |

- Test plots

Mean transmitter output power



Unmodulated carrier power





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3. Occupied Bandwidth

3.1. Test Setup



3.2. **Limit**

3.2.1 FCC

According to $\S95.773$, Each RCRS transmitter type must be designed such that the occupied bandwidth does not exceed 8 kHz for any emission type.

3.2.2 IC

According to RSS-210 Issue 10 Annex A.2.1(e), The authorized bandwidth is 8 klb for DSB, digital or FM, and 4 klb for SSB modulations. For SSB modulations, either upper or lower sideband may be used.

3.3. Test Procedure

- 1. The equipment under test is connected to the spectrum analyzer.
- 2. The spectrum analyzer is set to the as follow;

RBW: 1 ~ 5 % of 99 % Occupied bandwidth

VBW: 3 x RBW

Detector function: Peak

Trace: Max hold

3. The 99%occupied bandwidth of fundamental frequency was measured and recorded.



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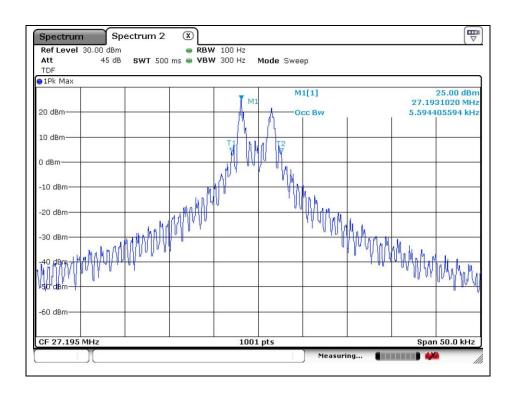
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3.4. Test Result

Ambient temperature : (23 \pm 1) $^{\circ}$ C Relative humidity : 47 $^{\circ}$ R.H.

| Frequency | 99 % Occupied Bandwidth | Limit | Test result |
|-----------|-------------------------|-------|-------------|
| (账) | (싼) | (紀) | |
| 27.195 | 27.195 5.594 | | Compliance |

- Test plot





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4. Emission Mask

4.1. Test Setup



4.2. Limit

4.2.1 FCC

According to $\S95.779(a)$, 26-28 Mb frequency band. For an RCRS transmitter operating in the 26-28 Mb frequency band, the power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) by at least:

- (1) 25 dB (decibels) in the frequency band 4 klz to 8 klz removed from the channel center frequency;
- (2) 35 dB in the frequency band 8 klb to 20 klb removed from the channel center frequency;

4.2.2 IC

According to RSS-210 Issue 10 Annex A.2.1(g), The average power of unwanted emissions, measured with a resolution bandwidth of 300 $\rm Hz$ for (i) and (ii), and 3 $\rm kHz$ for (iii), shall be less than the mean transmitter power, $\rm P_{mean}$ (dBW), by at least:

- (i) 25 dB on any frequency removed from the centre of the authorized bandwidth by more than 50%, up to and including 100% of the authorized bandwidth.
- (ii) 35 dB on any frequency removed from the centre of the authorized bandwidth by more than 100%, up to and including 250% of the authorized bandwidth.

4.3. Test Procedure

- 1. The equipment under test is connected to the spectrum analyzer.
- 2. The spectrum analyzer is set to the as follow;

Span: 40 kHz RBW: 300 Hz VBW: 1 kHz

Detector function: Peak

Trace: Max hold

3. The fundamental frequency was measured and recorded.



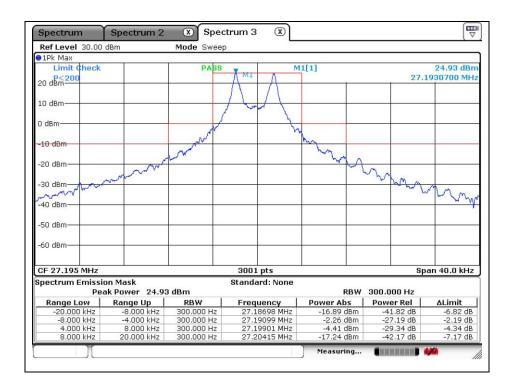
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4.4. Test Result

Ambient temperature : (23 \pm 1) $^{\circ}$ C Relative humidity : 47 $^{\circ}$ R.H.

- Test plot





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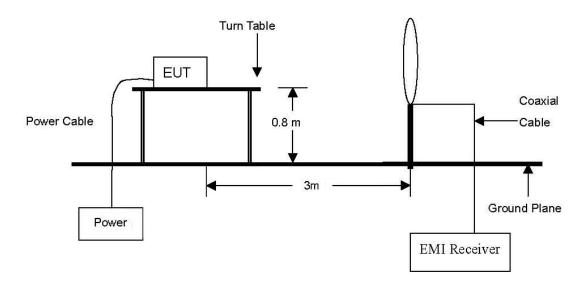
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5. Transmitter Unwanted Emissions

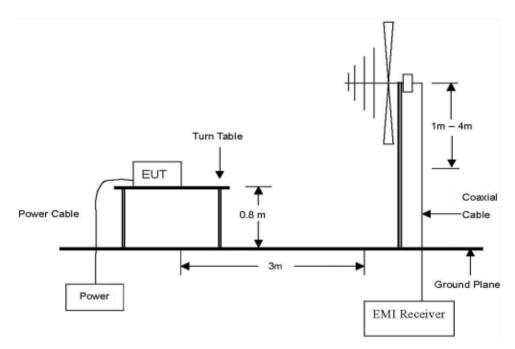
5.1. Test Setup

5.1.1. Radiated

The diagram below shows the test setup that is utilized to make the measurements for emission below 30 $\,$



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 $\,\mathrm{Mz}$ to 1 $\,\mathrm{Gz}$.





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5.1.2. Conducted



5.2. Limit

5.2.1 FCC

According to $\S95.779(a)$, 26-28 Mb frequency band. For an RCRS transmitter operating in the 26-28 Mb frequency band, the power of unwanted emissions mustbe attenuated below the transmitter output power in Watts (P) by at least:

(3) 43 + 10 log(P) dB in any frequency band removed from the channel center frequency by more than 20kHz.

5.2.2 IC

According to RSS-210 Issue 10 Annex A.2.1(g), The average power of unwanted emissions, measured with a resolution bandwidth of 300 $\rm Hz$ for (i) and (ii), and 3 $\rm kHz$ for (iii), shall be less than the mean transmitter power, $\rm P_{mean}$ (dBW), by at least:

(iii) 43 + 10 log10 p_{mean} (watts) dB or to the general field strength limits specified in RSS-Gen, whichever is less stringent, on any frequency removed from the centre of the authorized bandwidth by more than 250% of the authorized bandwidth.

5.3. Test Procedure

5.3.1. Radiated

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10-2013.

5.3.1.1. Test Procedures for emission below 30 Mb

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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5.3.2.1. Test Procedures for emission from 30 Mb to 271.45 Mb

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 % the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 % the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

5.3.2. Conducted

1. The equipment under test is connected to the spectrum analyzer.

2. The spectrum analyzer is set to the as follow;

RBW: 100 kHz VBW: 300 kHz

Detector function: Peak

Trace: Max hold

3. The trace was measured and recorded.

 $\mathsf{RTT7081-02}(2020.10.05)(0) \\ \mathsf{A4}(210\ \mathsf{mm}\times 297\ \mathsf{mm})$



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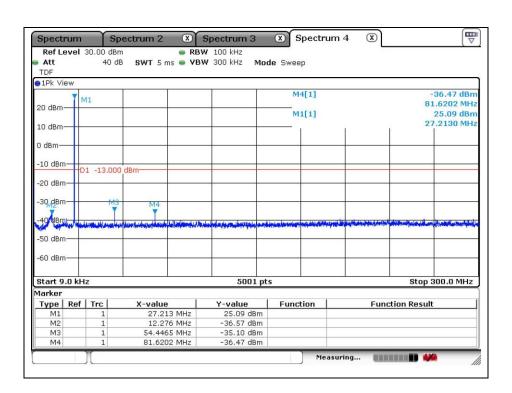
5.4. Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

Conducted

| Frequency (썐) | Level (dB m) | Limit (dB m) | Margin (dB) |
|------------------|-----------------|-----------------|----------------|
| 12.276 | -36.57 | -13 | 23.57 |
| 54.447 | -35.10 | -13 | 22.10 |
| 81.620 | -36.47 | -13 | 23.47 |

- Test plot





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Radiated

| Frequency (脈) | Measured Level (dBµV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | Ε (dB <i>μ</i> V/m) | CF (dB) | E.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|------------------|-----------------------------|--------------|--------------|----------------|------------------------|------------|------------------|-----------------|----------------|
| 0.03 | 41.00 | Н | 18.10 | 0.02 | 59.12 | -97.41 | -38.29 | -13 | 25.29 |
| 0.82 | 22.28 | Н | 18.13 | 0.76 | 41.17 | -97.41 | -56.24 | -13 | 43.24 |
| 30.12 | 38.20 | V | 16.28 | -28.14 | 26.34 | -97.41 | -71.07 | -13 | 58.07 |
| 54.37 | 42.20 | V | 19.33 | -27.86 | 33.67 | -97.41 | -63.74 | -13 | 50.74 |
| 353.58 | 53.40 | Н | 20.26 | -25.92 | 47.74 | -97.41 | -49.67 | -13 | 36.67 |
| 543.86 | 49.50 | Н | 23.40 | -25.66 | 47.24 | -97.41 | -50.17 | -13 | 37.17 |
| 734.34 | 55.20 | V | 26.32 | -25.52 | 56.00 | -97.41 | -41.41 | -13 | 28.41 |
| 761.42 | 58.40 | Н | 26.60 | -25.24 | 59.76 | -97.41 | <u>-37.65</u> | -13 | 24.65 |
| 815.82 | 55.60 | Н | 26.69 | -25.23 | 57.06 | -97.41 | -40.35 | -13 | 27.35 |

Remark;

- 1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
- 2. E ($dB\mu V/m$) = Measured Level ($dB\mu V$) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
- 3. E.I.R.P. (dB m) = E (dB μ V/m) + CF (dB).
- 4. E.R.P. (dB m) = E (dB μ V/m) + CF (dB) 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
- 5. CF (dB) = 20 log D 104.8; where D is the measurement distance in meters, According to ANSI C63.26-2015
- 6. The frequency spectrum is examined from 9 klb to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

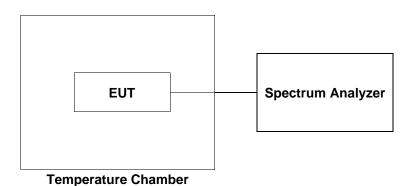


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6. Frequency Accurcy

6.1. Test Setup



6.2. Limit

6.2.1 FCC

According to §95.765(b), Except as allowed under paragraph (c) of this section, each RCRS transmitter type capable of transmitting in the 26-28 MHz frequency band must be designed such that the carrier frequencies remain within ± 50 ppm of the channel center frequencies listed in § 95.763(a)during normal operating conditions.

6.2.2 IC

According to RSS-210 Issue 10 Annex A.2.1(f), The carrier frequency stability shall be maintained to ± 50 ppm. However, devices with output powers of 2.5 W or less can have a frequency stability of ± 100 ppm.

6.3. Test Procedure

- 1. The equipment under test is connected to a spectrum analyzer
- 2. The EUT is placed inside the temperature chamber.
- 3.. After the temperature stabilized for approximately 20 minutes, the frequency accuracy was recorded



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6.4. Test Results

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

| Reference | Frequency | , | 27 195 | MHz |
|-------------|---------------------------------------|----------|-------------------|------|
| 1/6/6/6/166 | i i c qu c iicy | | <i>_1</i> . 1 3 3 | MILE |

Frequency Stability versus Temperature

| Environment Temperature | Power Supplied | Frequency Measure | with Time Elapse | |
|----------------------------|----------------|-------------------------|------------------|--|
| (°C) | (V) | Frequency Error (Hz) | ppm | |
| 50 | | 525 | -5.516 | |
| 40 | | 575 | -3.677 | |
| 30 | | 565 | -4.045 | |
| 20(Ref.) | | 675 | - | |
| 10 | 7.4 | 575 | -3.677 | |
| 0 | | 775 | 3.677 | |
| -10 | | 575 | -3.677 | |
| -20 | | 570 | -3.861 | |
| -30 | | 475 | -7.354 | |

Frequency Stability versus Power Supply

| Environment Temperature (°C) | Power Supplied (V) | Frequency Measure with Time Elapse | |
|------------------------------------|-----------------------|------------------------------------|--------|
| | | Frequency Error (Hz) | ppm |
| 20 | 8.51 (115%) | 575 | -3.677 |
| | 6.29 (85%) | 575 | -3.677 |

- End of the Test Report -