

## TEST REPORT

Applicant Name: VALERION TECHNOLOGY USA CO., LTD  
Address: 1312 17th Street, Unit Num 2955, Denver, CO 80202, United States  
Report Number: 2501X36040E-RF-07

### Test Standard (s)

Item 8 of Article 2 Paragraph 1

### Sample Description

Product Type: RF Remote Control  
Model No.: PVRC-01  
Multiple Model(s) No.: N/A  
Trade Mark: N/A  
Date Received: 2025/12/02  
Issue Date: 2026/01/16

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

### Prepared and Checked By:

Ekko Wu

Ekko Wu  
RF Engineer

### Approved By:

Jim Cheng

Jim Cheng  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.  
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DOCUMENT REVISION HISTORY

| Revision Number | Report Number     | Description of Revision | Date of Revision |
|-----------------|-------------------|-------------------------|------------------|
| 0               | 2501X36040E-RF-07 | Original Report         | 2026/01/16       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                       |                           |                                        |
|-----------------------|---------------------------|----------------------------------------|
| Product               |                           | RF Remote Control                      |
| Tested Model          |                           | PVRC-01                                |
| Multiple Model(s)     |                           | N/A                                    |
| Technical Parameters  | Modulation Type           | ASK                                    |
|                       | Frequency Range           | 315MHz                                 |
|                       | Rated Output Power        | 25uW                                   |
|                       | Antenna Gain <sup>#</sup> | 0dBi (It is provided by the applicant) |
| Nominal Power Supply: |                           | DC 3V from Battery                     |
| Sample serial number  |                           | 3DTK-1 (Assigned by BACL, Shenzhen)    |
| Sample/EUT Status     |                           | Good condition                         |
| Adapter Information   |                           | N/A                                    |

### Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan, rules and limits for this device, Article 2, Paragraph 1, Item 8-Specified Low Power Equipment (Telemeter & Tele-control or Data Transmission).

### Test Method

MIC Notice No.88 of Jan. 26, 2004, Annex 22-1.

### Measurement Uncertainty

| Item                       | Expanded Measurement uncertainty          |
|----------------------------|-------------------------------------------|
| Occupied Channel Bandwidth | 52.29kHz(k=1.96, 95% level of confidence) |
| Frequency Tolerance        | 81.235Hz(k=1.96, 95% level of confidence) |
| RF output power, conducted | 1.57dB(k=1.96, 95% level of confidence)   |
| Unwanted Emission,         | 2.48dB(k=1.96, 95% level of confidence)   |
| Temperature                | ±0.4°C                                    |
| Supply voltages            | DC±0.4%;AC±1%                             |
| Humidity                   | ±2%                                       |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Each test item follows test standards and with no deviation.

## EUT TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in a testing mode (which was selected by applicant).

Test Voltage: Normal voltage: 3 V<sub>DC</sub>

Low voltage: 2.7 V<sub>DC</sub>

High voltage: 3.3 V<sub>DC</sub>

### EUT Exercise Software

No exercise software.

### Equipment Modifications

No modification was made to the EUT tested.

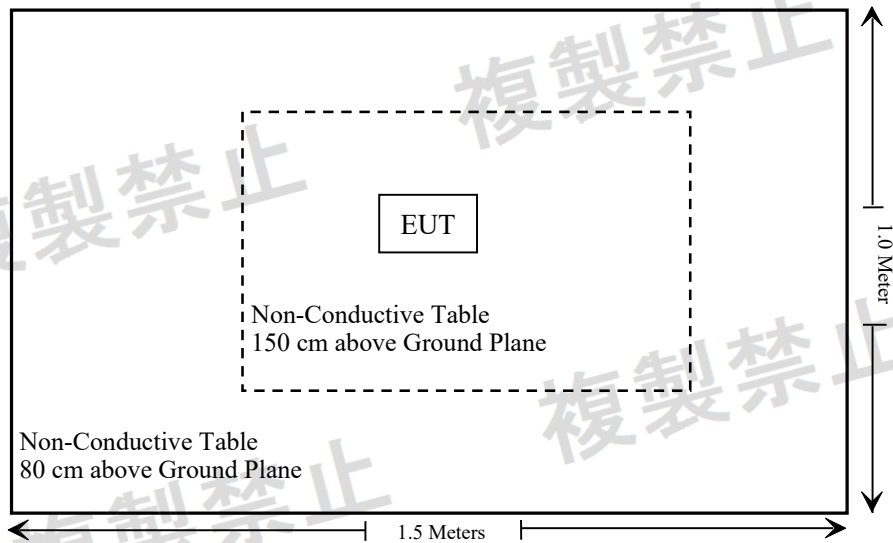
### Support Equipment List and Details

| Manufacturer | Description | Model          | Serial Number |
|--------------|-------------|----------------|---------------|
| DELL         | PC          | Latitude E6520 | DL0ZCS1       |
| Valerion     | Screen      | MW-120DT       | /             |

### External I/O Cable

| Cable Description | Length (m) | From Port | To |
|-------------------|------------|-----------|----|
| /                 | /          | /         | /  |

## Configuration of Test Setup



**SUMMARY OF TEST RESULTS**

| Article 2, Paragraph 1, Item 8 | Description of Test                                       | Result         |
|--------------------------------|-----------------------------------------------------------|----------------|
| 1                              | Frequency Deviation                                       | Compliant      |
| 2                              | Occupied Bandwidth                                        | Compliant      |
| 3                              | Spurious Emission Strength or Unwanted Emission Intensity | Compliant      |
| 4                              | Antenna Power Deviation                                   | Compliant      |
| 5                              | Secondary emission wave maximum limit                     | Not Applicable |
| 6                              | Transmission                                              | Compliant      |
| 7                              | Interference Prevention Function                          | Compliant      |
| 8                              | Construction Protection Confirmation                      | Compliant      |

Not Applicable: The prototype has only transmit function, not receive function.

**TEST EQUIPMENT LIST**

| Manufacturer              | Description                       | Model            | Serial Number | Calibration Date | Calibration Due Date | Calibration Authority | Calibration Method |
|---------------------------|-----------------------------------|------------------|---------------|------------------|----------------------|-----------------------|--------------------|
| Rohde & Schwarz           | EMI Test Receiver                 | ESR3             | 102455        | 2025/09/01       | 2026/08/31           | CCIC                  | c)                 |
| Sonoma instrument         | Pre-amplifier                     | 310 N            | 186238        | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| Sunol Sciences            | Broadband Antenna                 | JB1              | A040904-1     | 2023/07/20       | 2026/07/19           | SMQ                   | c)                 |
| Unknown                   | Chamber A Cable                   | Cable A3         | Cable A3      | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| Unknown                   | Chamber A Cable                   | Cable A4         | Cable A4      | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| TDK                       | Chamber                           | Chamber A        | 2#            | 2023/07/12       | 2026/07/11           | BACL Cal              | c)                 |
| Agilent                   | Signal Generator                  | N5183A           | MY50140588    | 2025/09/18       | 2026/09/17           | CCIC                  | c)                 |
| COM-POWER                 | Dipole Antenna                    | 3121C            | 9209-860      | NCR              | NCR                  | /                     | /                  |
| Rohde & Schwarz           | Spectrum Analyzer                 | FSV40            | 101605        | 2025/09/01       | 2026/08/31           | CCIC                  | c)                 |
| A.H.System                | Preamplifier                      | PAM-0118P        | 489           | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| Schwarzbeck               | Horn Antenna                      | BBHA9120D (1201) | 1143          | 2023/07/26       | 2026/07/25           | SMQ                   | c)                 |
| The Electro-Mechanics Co. | Horn Antenna                      | 3115             | 9107-3694     | 2024/06/06       | 2027/06/05           | SMQ                   | c)                 |
| Unknown                   | Chamber B Cable                   | Cable B1         | Cable B1      | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| Unknown                   | Chamber B Cable                   | Cable B2         | Cable B2      | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| Unknown                   | Chamber B Cable                   | Cable B3         | Cable B3      | 2025/09/08       | 2026/09/07           | BACL Cal              | c)                 |
| JD                        | Filter Switch Unit                | DT7220FSU        | DS79906       | 2025/08/12       | 2026/08/11           | BACL Cal              | c)                 |
| JD                        | Multiplex Switch Test Control Set | DT7220SCU        | DS79903       | 2025/08/12       | 2026/08/11           | BACL Cal              | c)                 |
| TDK                       | Chamber                           | Chamber B        | 1#            | 2023/07/14       | 2026/07/13           | BACL Cal              | c)                 |
| instek                    | DC Power Supply                   | GPS-3030DD       | EM832096      | NCR              | NCR                  | /                     | /                  |
| Fluke                     | Digital Multimeter                | 287              | 19000011      | 2025/04/29       | 2026/04/28           | BACL Cal              | c)                 |

Note: Calibration Method

- a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1)  
b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~Japan Calibration Service System~  
c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)  
d) Calibration conducted by using other equipment that listed above from a) to c)

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

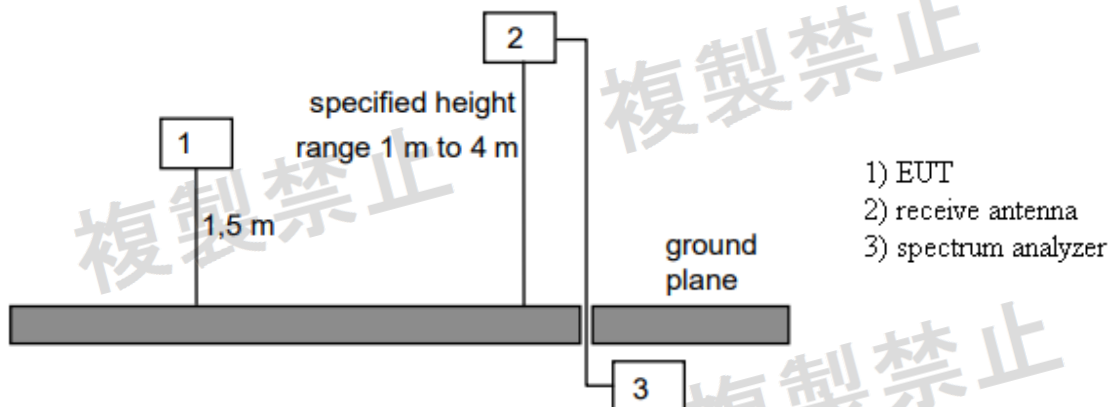
## FREQUENCY DEVIATION

### Limit

Higher than 312 MHz, less than 315.25 MHz

### Test Procedure

- (1) Place the EUT on a 3 meter height from ground plane non-conductive support on turntable, the receive antenna is located at 3meter distance from EUT;



- (2) Set the EUT transmit on highest power, pre-scan EUT in three orthogonal axis orientation and receive antenna vertical/horizontal polarization, the worst case was select to test;
- (3) Set spectrum analyzer as follows:
  - Central frequency: frequency to be investigated
  - Sweep frequency width: 2 MHz
  - Resolution bandwidth 30 kHz
  - Video bandwidth: Same as resolution bandwidth
  - Input level: Carrier wave level sufficiently higher than spectrum analyzer noise level
  - Sweep time: Minimum time ensuring measurement accuracy
  - Sweep mode: Continuous
  - Detection mode: Positive peak
  - Display mode: Max hold
- (4) Rotated the EUT through 360° in a horizontal plane until a maximum signal is received at the spectrum analyzer;
- (5) The receive antenna shall be raised or lowered again through 1 to 4 meter range until a maximum is obtained at the spectrum analyzer;
- (6) Wait the trace complete and use the 99 % occupied bandwidth function of the spectrum analyzer;
- (7) The frequency deviation was recorded as the lowest frequency (FL) and highest frequency (FH) of 99 % occupied bandwidth, the FL and FH should within the assigned frequency range.

Test Data

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 °C   |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.3 kPa |

The testing was performed by Nico Wu on 2025-12-16.

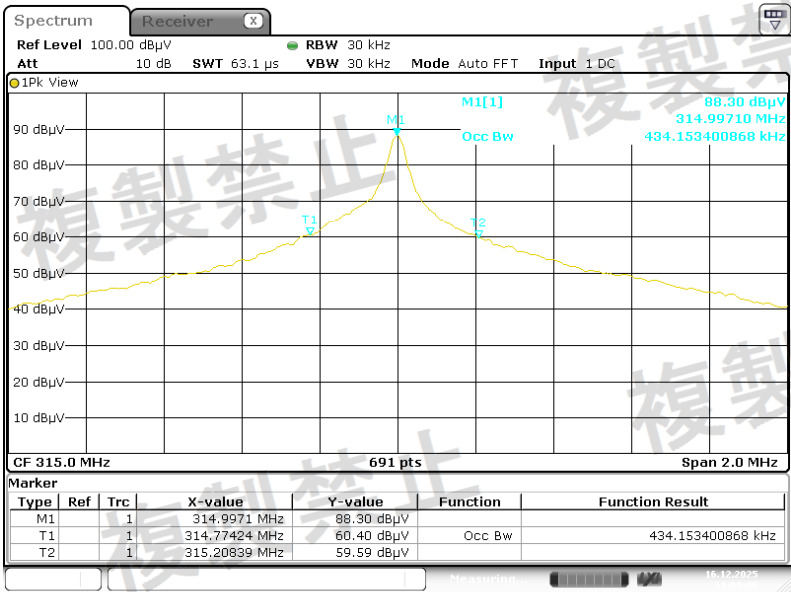
Test Result: Compliant

Test Mode: Transmitting

Please refer to the table and plot below:

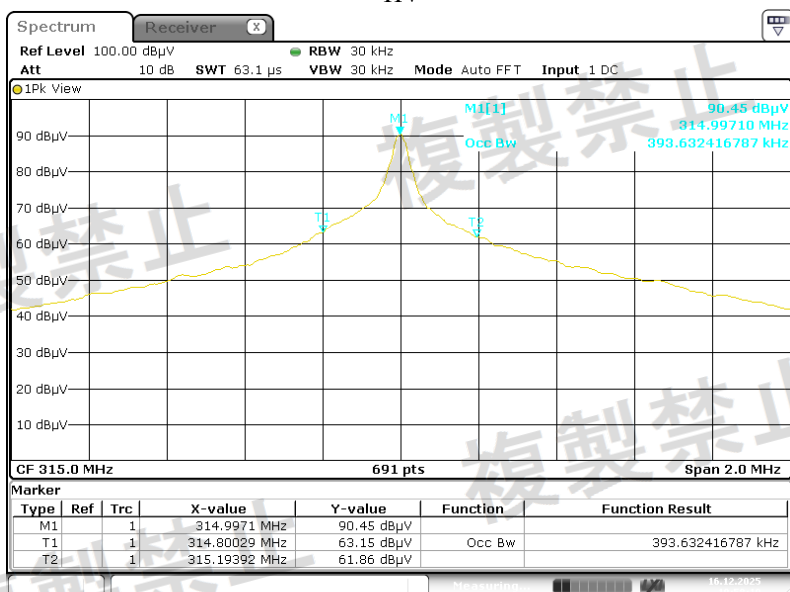
| Test Voltage | Frequency (MHz) | FL (MHz) | FH (MHz) | FL Limit (MHz) | FH Limit (MHz) | Result |
|--------------|-----------------|----------|----------|----------------|----------------|--------|
| NV           | 315             | 314.77   | 315.21   | >312           | <315.25        | Pass   |
| HV           | 315             | 314.80   | 315.19   | >312           | <315.25        | Pass   |
| LV           | 315             | 314.79   | 315.21   | >312           | <315.25        | Pass   |

NV

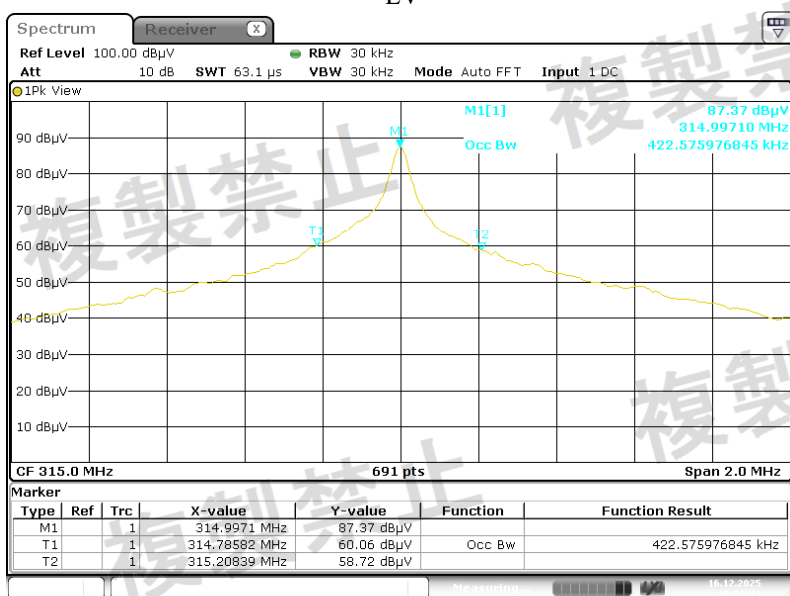


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Date: 16.DEC.2025 11:00:06

## HV



## LV



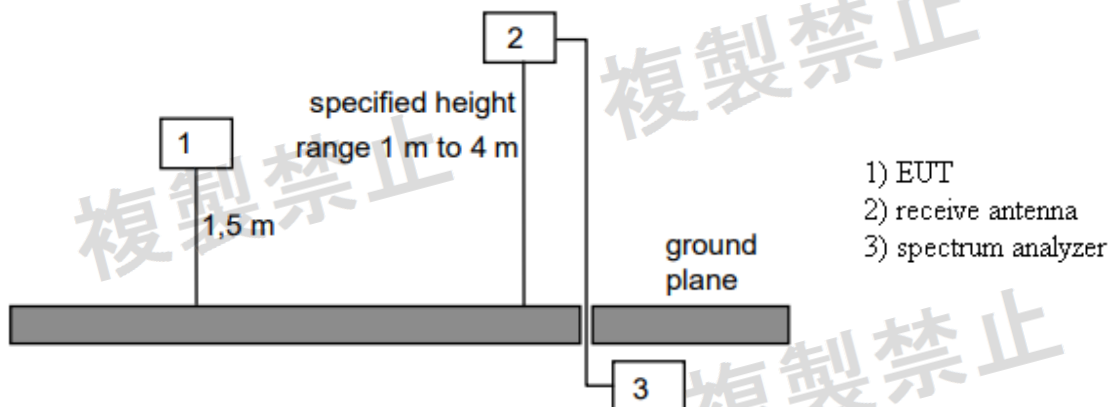
## OCCUPIED BANDWIDTH

### Limit

Less than 1 MHz

### Test Procedure

- (1) Place the EUT on a 3 meter height from ground plane non-conductive support on turntable, the receive antenna is located at 3meter distance from EUT;



- (2) Set the EUT transmit on highest power, pre-scan EUT in three orthogonal axis orientation and receive antenna vertical/horizontal polarization, the worst case was select to test;
- (3) Set spectrum analyzer as follows:
  - Central frequency: frequency to be investigated
  - Sweep frequency width: 2 MHz
  - Resolution bandwidth 30 kHz
  - Video bandwidth: Same as resolution bandwidth
  - Input level: Carrier wave level sufficiently higher than spectrum analyzer noise level
  - Sweep time: Minimum time ensuring measurement accuracy
  - Sweep mode: Continuous
  - Detection mode: Positive peak
  - Display mode: Max hold
- (4) Rotated the EUT through 360° in a horizontal plane until a maximum signal is received at the spectrum analyzer;
- (5) The receive antenna shall be raised or lowered again through 1 to 4 meter range until a maximum is obtained at the spectrum analyzer;
- (6) Wait the trace complete and use the 99 % occupied bandwidth function of the spectrum analyzer;
- (7) Record the 99 % occupied bandwidth from the spectrum analyzer.

Test Data

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 °C   |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.3 kPa |

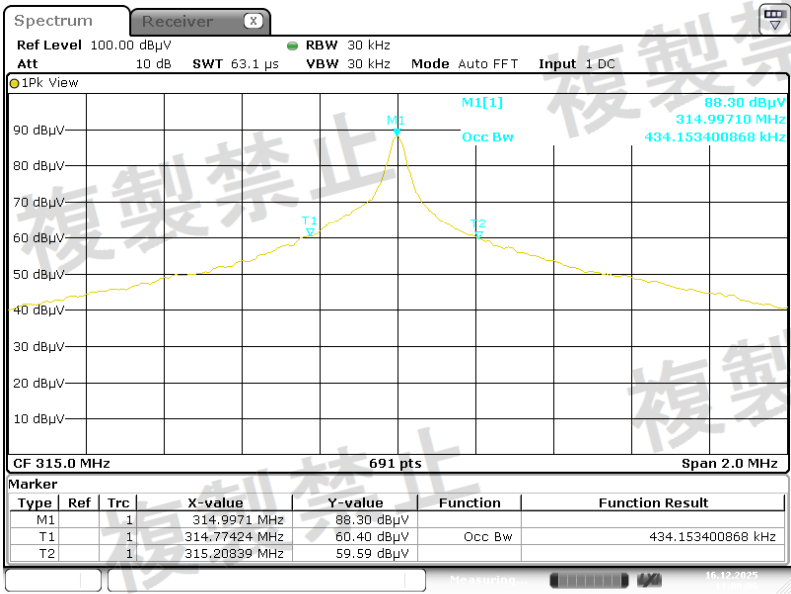
The testing was performed by Nico Wu on 2025-12-16.

Test Result: Compliant

Test Mode: Transmitting

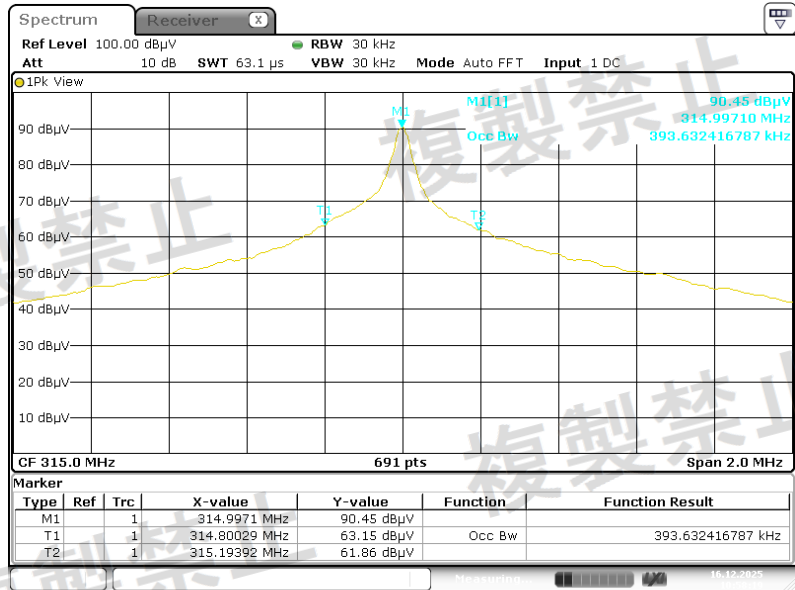
| Test Voltage | Frequency (MHz) | 99% OBW (MHz) | Limit (MHz) | Result |
|--------------|-----------------|---------------|-------------|--------|
| NV           | 315             | 0.4342        | <1          | Pass   |
| HV           | 315             | 0.3936        | <1          | Pass   |
| LV           | 315             | 0.4226        | <1          | Pass   |

NV

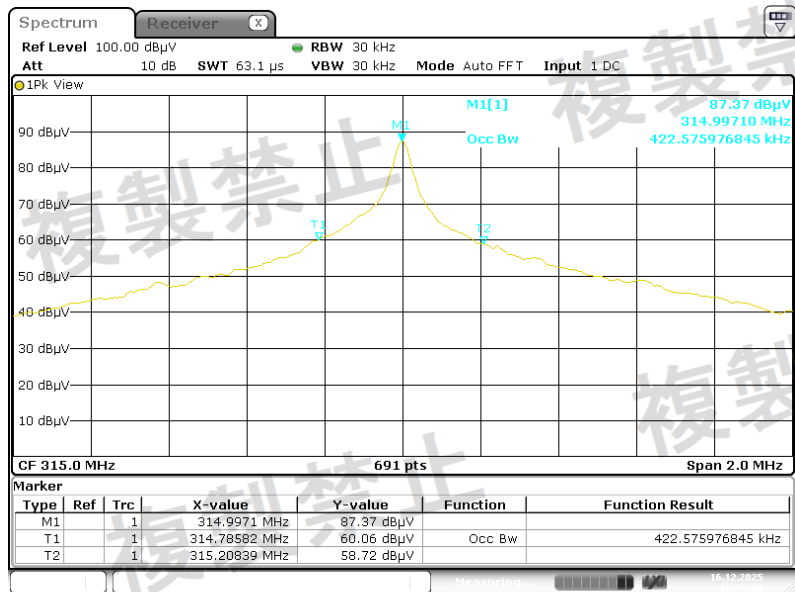


ProjectNo.:2501X36040E-RF Tester:Nico Wu  
Date: 16.DEC.2025 11:00:06

## HV



## LV



## SPURIOUS EMISSION OR UNWANTED EMISSION INTENSITY

### Limit

Below 1 GHz: less than 250 nW/100 kHz (EIRP)

Above 1 GHz: less than 1  $\mu$ W/1 MHz (EIRP)

### Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range from 30MHz to 3GHz was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

### Test Data

#### Environmental Conditions

|                    |                 |
|--------------------|-----------------|
| Temperature:       | 23.8~24.1 °C    |
| Relative Humidity: | 48~56 %         |
| ATM Pressure:      | 101.3~102.3 kPa |

*The testing was performed by Nico Wu on 2025-12-16 for below 1GHz and Leon Guo on 2025-12-15 for above 1GHz.*

**Test Result:** Compliant

*Test Mode: Transmitting*

| Frequency<br>(MHz) | Receiver<br>Reading<br>(dBμV) | Polar<br>(H / V) | Substituted                   |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                    |                               |                  | Substituted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBi/dBd) |                            |                |                |
| NV                 |                               |                  |                               |                       |                              |                            |                |                |
| 630                | 58.57                         | H                | -42.4                         | 1.17                  | 0.0                          | -43.57                     | -38.15         | 5.42           |
| 630                | 52.47                         | V                | -44.9                         | 1.17                  | 0.0                          | -46.07                     | -38.15         | 7.92           |
| 945                | 45.32                         | H                | -51.2                         | 1.36                  | 0.0                          | -52.56                     | -38.15         | 14.41          |
| 945                | 38.65                         | V                | -55.4                         | 1.36                  | 0.0                          | -56.76                     | -38.15         | 18.61          |
| LV                 |                               |                  |                               |                       |                              |                            |                |                |
| 630                | 58.14                         | H                | -42.8                         | 1.17                  | 0.0                          | -43.97                     | -38.15         | 5.82           |
| 630                | 52.35                         | V                | -45.0                         | 1.17                  | 0.0                          | -46.17                     | -38.15         | 8.02           |
| 945                | 45.46                         | H                | -51.0                         | 1.36                  | 0.0                          | -52.36                     | -38.15         | 14.21          |
| 945                | 38.69                         | V                | -55.4                         | 1.36                  | 0.0                          | -56.76                     | -38.15         | 18.61          |
| HV                 |                               |                  |                               |                       |                              |                            |                |                |
| 630                | 58.85                         | H                | -42.1                         | 1.17                  | 0.0                          | -43.27                     | -38.15         | 5.12           |
| 630                | 52.47                         | V                | -44.9                         | 1.17                  | 0.0                          | -46.07                     | -38.15         | 7.92           |
| 945                | 45.58                         | H                | -50.9                         | 1.36                  | 0.0                          | -52.26                     | -38.15         | 14.11          |
| 945                | 38.69                         | V                | -55.4                         | 1.36                  | 0.0                          | -56.76                     | -38.15         | 18.61          |

| Frequency<br>(MHz) | Receiver<br>Reading<br>(dBμV) | Polar<br>(H / V) | Substituted                   |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                    |                               |                  | Substituted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBi/dBd) |                            |                |                |
| NV                 |                               |                  |                               |                       |                              |                            |                |                |
| 1260.00            | 69.41                         | H                | -44.9                         | 1.00                  | 7.30                         | -38.60                     | -30            | 8.60           |
| 1260.00            | 75.91                         | V                | -39.4                         | 1.00                  | 7.30                         | -33.10                     | -30            | 3.10           |
| 1575.00            | 63.68                         | H                | -50.7                         | 1.50                  | 8.60                         | -43.60                     | -30            | 13.60          |
| 1575.00            | 72.89                         | V                | -42.0                         | 1.50                  | 8.60                         | -34.90                     | -30            | 4.90           |
| LV                 |                               |                  |                               |                       |                              |                            |                |                |
| 1260.00            | 69.12                         | H                | -45.2                         | 1.00                  | 7.30                         | -38.90                     | -30            | 8.90           |
| 1260.00            | 75.25                         | V                | -40.0                         | 1.00                  | 7.30                         | -33.70                     | -30            | 3.70           |
| 1575.00            | 63.35                         | H                | -51.0                         | 1.50                  | 8.60                         | -43.90                     | -30            | 13.90          |
| 1575.00            | 72.15                         | V                | -42.7                         | 1.50                  | 8.60                         | -35.60                     | -30            | 5.60           |
| HV                 |                               |                  |                               |                       |                              |                            |                |                |
| 1260.00            | 69.45                         | H                | -44.9                         | 1.00                  | 7.30                         | -38.60                     | -30            | 8.60           |
| 1260.00            | 75.36                         | V                | -39.9                         | 1.00                  | 7.30                         | -33.60                     | -30            | 3.60           |
| 1575.00            | 63.18                         | H                | -51.2                         | 1.50                  | 8.60                         | -44.10                     | -30            | 14.10          |
| 1575.00            | 72.38                         | V                | -42.5                         | 1.50                  | 8.60                         | -35.40                     | -30            | 5.40           |

**Note 1:** the antenna unit is dBd is below 1GHz and dBi for above 1GHz.

**Note 2:**

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

**Note 3:** for below 1GHz, the test result is ERP, the limit express as EIRP, for EIRP =ERP+2.15dB, so the limit for below 1GHz was reduced 2.15dB to convert to ERP limit.

## ANTENNA POWER DEVIATION

### Limit

| Item                  | Limit                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------|
| Antenna Power (EIRP)  | less than $25\mu\text{W}$ ;<br>if OBW full within 312MHz to 315.05 MHz: less than $250\mu\text{W}$ |
| Permissible deviation | Upper limit: + 20 %                                                                                |

### Test Procedure

- (1) Place the EUT on a 3 meter height from ground plane non-conductive support on turntable, measuring antenna is vertical polarization; height and direction of receiver and measuring antenna are almost opposite one from the other.
- (2) The spectrum analyzer is used for measurement, Rotate testing device and adjust to receiving power maximum direction.
- (3) Measuring antenna is installed at 1m to 4 m variable height from ground Moreover, adjust measuring antenna direction, then spectrum analyzer is displayed as “E”.
- (4) Uninstall the testing device from the base, substitute antenna location and testing device antenna location should be at the same position. Emit the same frequency wave from the substitute standard signal generator and then receive.
- (5) Rotate substitute antenna and adjust power maximum direction.
- (6) Install measuring antenna at 1m to 4 m variable height from ground, adjust measuring antenna direction, and detect the location where receiving power is at maximum level. then spectrum analyzer is displayed as “E”.
- (7) Adjust standard signal generator output so as to register power  $P_s$  that is the same as “E” or register a value close to “E” ( $\pm 1\text{ dB}$ ), where  $P_s$  is obtained considering difference with “E”.
- (8) Calculate antenna power (EIRP) using the following formula.  $PO = PS - GS + LF$   $PS$  = Standard signal generator output (unit: dBm)  $GS$  = Substitute antenna absolute gain (unit: dBi)  $LF$  = Feeding loss between standard signal generator and substitute antenna (unit: dB)

### Measuring Instruments and setting

- (1) Spectrum analyzer will be used to measure the peak power.
- (2) The spectrum analyzer is set as follows:
  - Central frequency: 315MHz
  - Sweep frequency width: 5 MHz
  - Resolution bandwidth: 3 MHz
  - Video bandwidth: Equal or more than 3 times the resolution bandwidth
  - Y scale: 10 dB/Div
  - Input level: Maximum dynamic range
  - Sweep time: Minimum time ensuring measurement accuracy
  - Sweep mode: Continuous sweep
  - Detection mode: Positive peak
  - Display mode: Max hold

**Test Data****Environmental Conditions**

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 °C   |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.3 kPa |

The testing was performed by Nico Wu on 2025-12-16.

**Test Result:** Compliant

*Test Mode:* Transmitting

*Antenna output power:*

| Frequency<br>(MHz) | Receiver<br>Reading<br>(dBμV) | Polar<br>(H / V) | Substituted                   |                       |                          | Absolute<br>Level<br>(dBm) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------------|------------------|-------------------------------|-----------------------|--------------------------|----------------------------|---------------|----------------|----------------|
|                    |                               |                  | Substituted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd) |                            |               |                |                |
|                    | NV                            |                  |                               |                       |                          |                            |               |                |                |
| 315                | 90.45                         | H                | -17.6                         | 0.94                  | 0.0                      | -18.54                     | -16.39        | -16.02         | 0.37           |
| 315                | 83.24                         | V                | -22.0                         | 0.94                  | 0.0                      | -22.94                     | -20.79        | -16.02         | 4.77           |
|                    | LV                            |                  |                               |                       |                          |                            |               |                |                |
| 315                | 90.24                         | H                | -17.8                         | 0.94                  | 0.0                      | -18.74                     | -16.59        | -16.02         | 0.57           |
| 315                | 83.32                         | V                | -21.9                         | 0.94                  | 0.0                      | -22.84                     | -20.69        | -16.02         | 4.67           |
|                    | HV                            |                  |                               |                       |                          |                            |               |                |                |
| 315                | 90.14                         | H                | -17.9                         | 0.94                  | 0.0                      | -18.84                     | -16.69        | -16.02         | 0.67           |
| 315                | 83.36                         | V                | -21.8                         | 0.94                  | 0.0                      | -22.74                     | -20.59        | -16.02         | 4.57           |

**Note 1:** dBd is for the ERP

**Note 2:**

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

**Note 3:** EIRP=ERP+2.15dB

*Output power Deviation:*

The manufacturer declared power is 25uW (EIRP).

The maximum EIRP is -16.39dBm (22.96uW).

Output Power Deviation = (Output power-Declared Power)/ Declared Power\*100%  
= (22.96uW-25uW)/25uW\*100%= -8.16 <20%

## TRANSMISSION TIME

### Limit

| Item                                           | Limits                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmission time/transmission suspension time | RF equipment with no cyclical transmission :<br>Transmission time: Less than 5 s<br>Manual transmission: Transmission time Less than 90 s<br>RF equipment with cyclical transmission :<br>Transmission time: Less than 1 s<br>Transmission suspension time: 30 times the transmission time |

### Test Procedure

- (1) Verify wave emission using spectrum analyzer when circuit connected with external test device.
- (2) Measure maximum transmission time and minimum transmission suspension time.
- (3) When time division is missing, use a video trigger and measure an appropriate maximum transmission time and minimum transmission suspension time.

### Measuring Instruments and setting

- (1) The spectrum analyzer is set as follows:

- Central frequency: 315MHz
- Sweep frequency width: 0 Hz
- Resolution bandwidth: 1 MHz
- Video bandwidth: Same as resolution bandwidth
- Y scale: 10 dB/Div
- Input level: Maximum dynamic range
- Sweep time: 100s
- Sweep mode: Single sweep
- Detection mode: Positive peak

- (2) External test device is a device that can be circuit connected to receiver. As an alternative, can be used an auxiliary device that establishes transmission with receiver. If transmission is manual or cannot be controlled by an external test device, then cannot be used.

Test Data

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 °C   |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.3 kPa |

The testing was performed by Cheeb Huang on 2025-12-24.

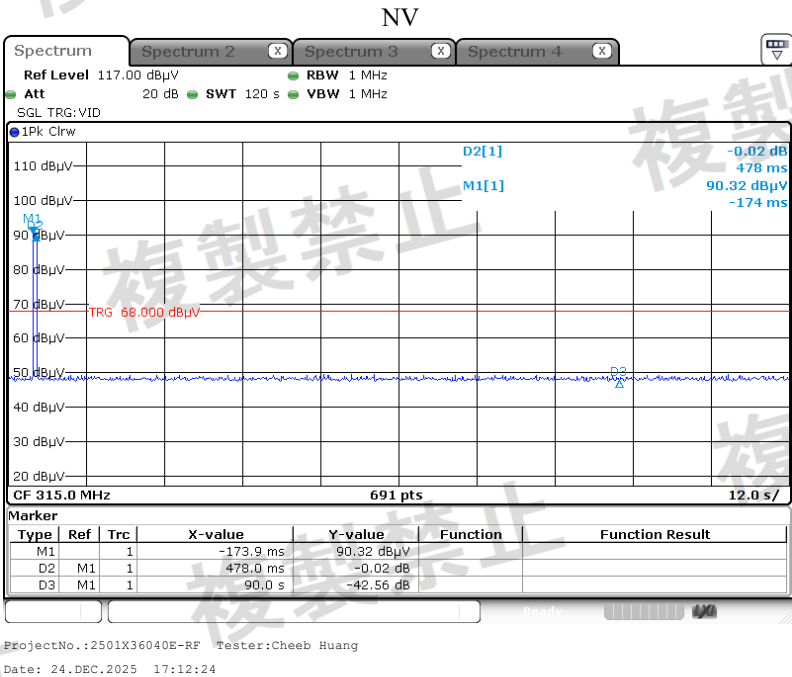
Test Mode: Transmitting

Test Result: Compliant

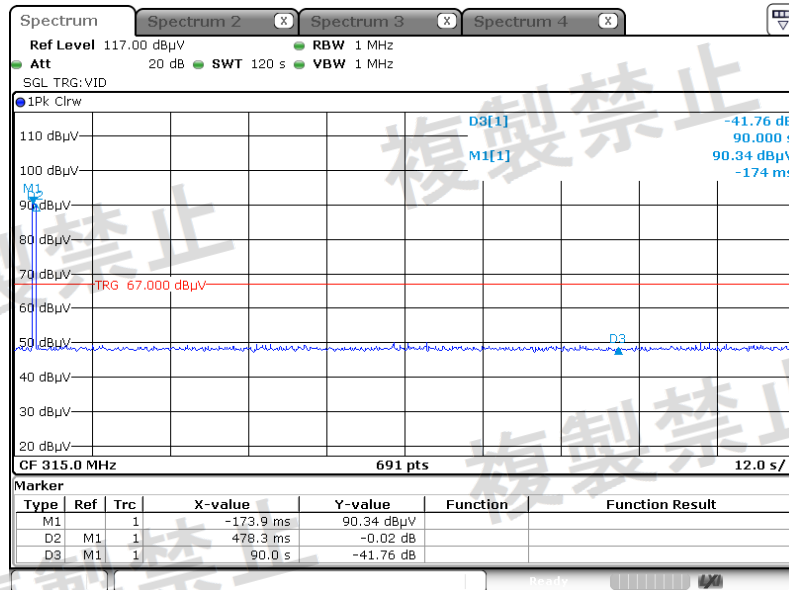
Please see the below table and plot

| Test Voltage | Frequency (MHz) | Transmission time (s) | Limit (s) | Result |
|--------------|-----------------|-----------------------|-----------|--------|
| NV           | 315             | 0.4780                | <90       | Pass   |
| HV           | 315             | 0.4783                | <90       | Pass   |
| LV           | 315             | 0.4780                | <90       | Pass   |

Note: EUT is manual operation.



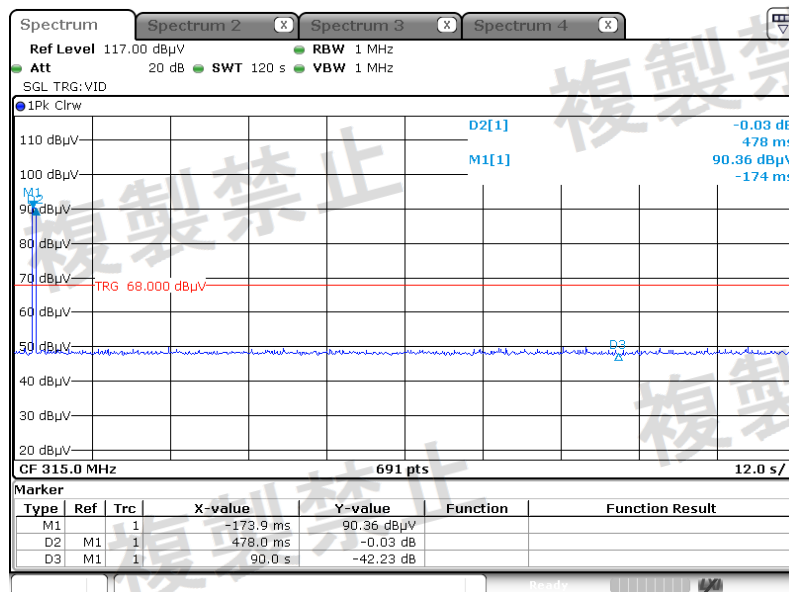
## HV



ProjectNo.:2501X36040E-RF Tester:Cheeb Huang

Date: 24.DEC.2025 17:02:50

## LV



ProjectNo.:2501X36040E-RF Tester:Cheeb Huang

Date: 24.DEC.2025 17:09:14

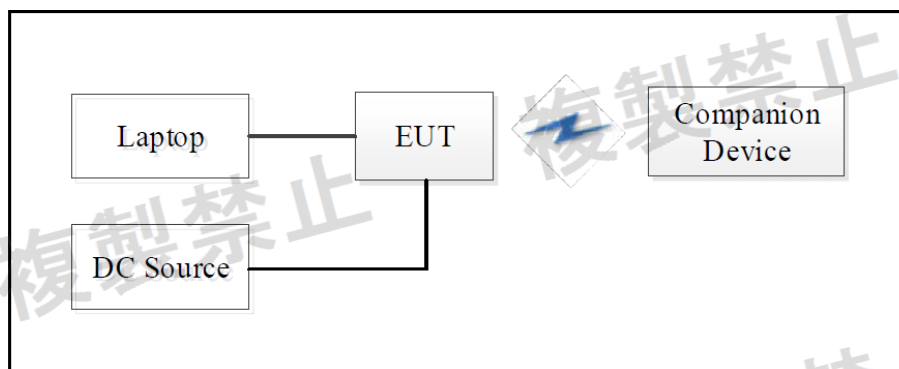
## INTERFERENCE PREVENTION FUNCTION

### Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

### Test Procedure

#### Measurement System Diagram



In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 23.8 °C   |
| <b>Relative Humidity:</b> | 48 %      |
| <b>ATM Pressure:</b>      | 101.3 kPa |

*The testing was performed by Nico Wu on 2025-12-16.*

*Test Mode: Transmitting*

**Test Result:** Compliant

Please see the below table

| Item                             | Result         | Requirement     | Verdict   |
|----------------------------------|----------------|-----------------|-----------|
| Methodology to transmit ID Code: | Automatically  | Automatically   | Good      |
| Methodology to receive ID Code:  | Automatically  | Automatically   | Good      |
| Identification Codes (ID Codes): | A4:03:42:01:00 | /               | /         |
| Bits of ID Codes:                | 48 bits        | 48 bits or more | Compliant |

## **CONSTRUCTION PROTECTION CONFIRMATION**

### **Limit**

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

### **Result**

The EUT use buckle to lock the shell, the shell can't be opened easily. Please refer to the EUT photos.

## **EUT PHOTOGRAPHS**

Please refer to the attachment 2501X36040E-RF-EXP External photo and 2501X36040E-RF-INP Internal photo.

## **TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2501X36040E-RF-07-TSP Test Setup photo.

\*\*\*\*END OF REPORT\*\*\*\*