



# TEST REPORT

**APPLICANT** : KonnectONE, LLC

**PRODUCT NAME** : Tablet

**MODEL NAME** : MT-T8B22

**BRAND NAME** : moxee

**FCC ID** : 2APQU-MT-T8B22

**STANDARD(S)** : 47 CFR Part 15 Subpart C

**RECEIPT DATE** : 2022-12-06

**TEST DATE** : 2022-12-06

**ISSUE DATE** : 2022-12-15

Edited by: Peng Mi  
Peng Mi (Rapporteur)

Approved by: Shen Junsheng  
Shen Junsheng (Supervisor)

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| Change History |            |                   |
|----------------|------------|-------------------|
| Version        | Date       | Reason for change |
| 1.0            | 2022-12-15 | First edition     |
|                |            |                   |



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

|                              |   |
|------------------------------|---|
| <b>Applicant:</b>            | KonnectONE, LLC                                       |
| <b>Applicant Address:</b>    | 40 Lake Bellevue Drive, Suite 350, Bellevue, WA 98005 |
| <b>Manufacturer:</b>         | KonnectONE, LLC                                       |
| <b>Manufacturer Address:</b> | 40 Lake Bellevue Drive, Suite 350, Bellevue, WA 98005 |

## 1.2. Equipment Under Test (EUT) Description

|                                   |   |
|-----------------------------------|---|
| <b>Product Name:</b>              | Tablet  |
| <b>EUT IMEI:</b>                  | 357612471873761;  |
| <b>Hardware Version:</b>          | T8002_V1.1  |
| <b>Software Version:</b>          | MT8BV1.0.0B015  |
| <b>Modulation Technology:</b>     | DSSS, OFDM  |
| <b>Modulation Type:</b>           | Refer to section1.3   |
| <b>Operating Frequency Range:</b> | 802.11b/g/ n (HT20): 2412MHz–2462MHz<br>802.11n (HT40): 2422MHz–2452MHz |

**Note 1:** This is a variant report to request a Class II Permissive change for the original report (Report No.: SZ22020126W03, FCC ID: 2ALZM-T8002; Change ID Report No.: SZ22050278W03, FCC ID: 2APQU-MT-T8B22). Based on the similarity between before, only changed the screen supplier model consistency, changed the antenna switch, changed the vibrator wiring, changed the horn height, changed the battery FPC length, changed software and hardware version number. Software version change does not affect RF performance. Due to the above changes, we have evaluated and retested worst case of radiated emissions, the test results are better than before, all other test items are no need to be retested. We only recorded the worse case of radiated emissions in this report.

**Note 2:** We use the dedicated software to control the EUT continuous transmission.

**Note 3:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



### 1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

| No. | Identity       | Document Title          |
|-----|----------------|-------------------------|
| 1   | 47 CFR Part 15 | Radio Frequency Devices |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section              | Description       | Test Date     | Test Engineer | Result | Method Determination /Remark |
|-----|----------------------|-------------------|---------------|---------------|--------|------------------------------|
| 1   | 15.209,<br>15.247(d) | Radiated Emission | Oct. 17, 2021 | Lin Jiayong   | PASS   | No deviation                 |

**Note 1:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 2:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

### 1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

|                             |        |
|-----------------------------|--------|
| Temperature (°C):           | 15-35  |
| Relative Humidity (%):      | 30-60  |
| Atmospheric Pressure (kPa): | 86-106 |



## 2. 47 CFR Part 15C Requirements

### 2.1. Radiated Emission

#### 2.1.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ( $\mu\text{V}/\text{m}$ ) | Measurement Distance (m) |
|-----------------|---|--------------------------|
| 0.009 - 0.490   | 2400/F(kHz)                               | 300                      |
| 0.490 - 1.705   | 24000/F(kHz)                              | 30                       |
| 1.705 - 30.0    | 30  | 30                       |
| 30 - 88         | 100                                       | 3                        |
| 88 - 216        | 150                                       | 3                        |
| 216 - 960       | 200                                       | 3                        |
| Above 960       | 500                                       | 3                        |

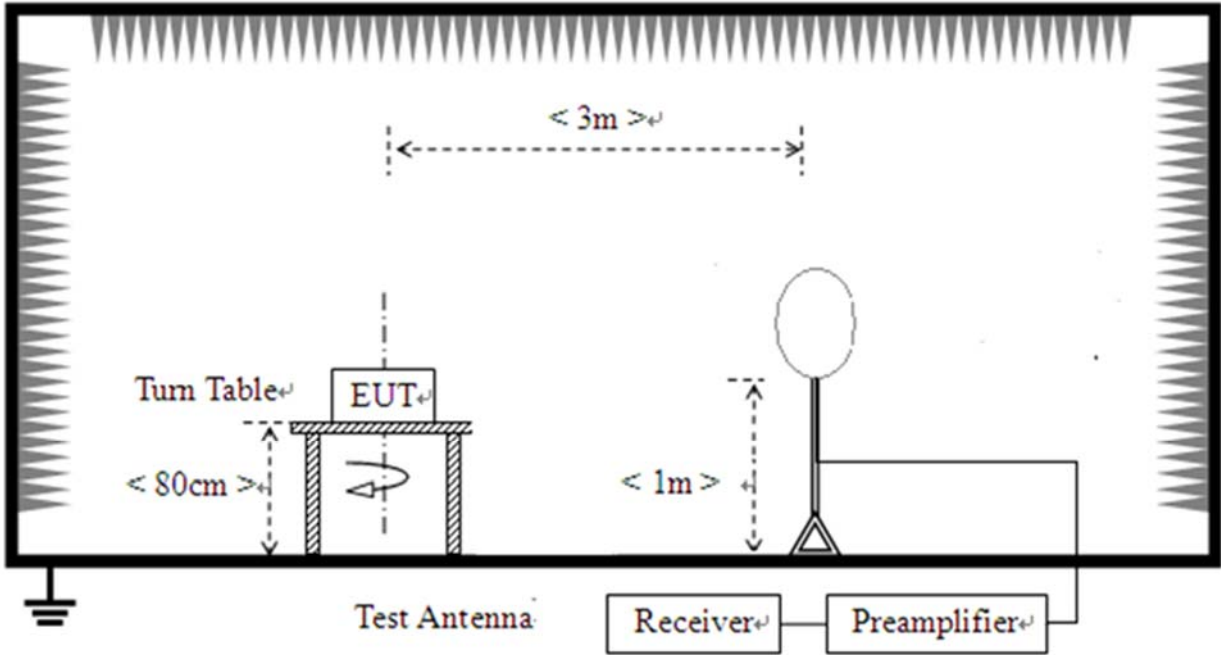
**Note1:** For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

**Note2:** For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

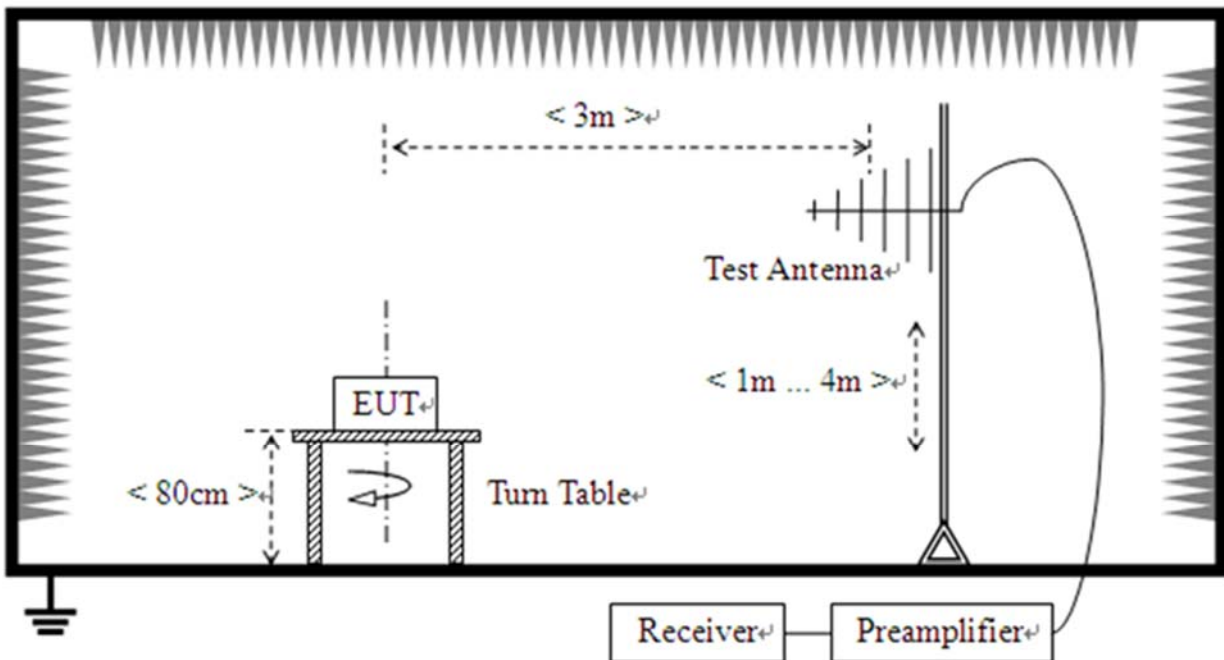
2.1.2. Test Description

Test Setup:

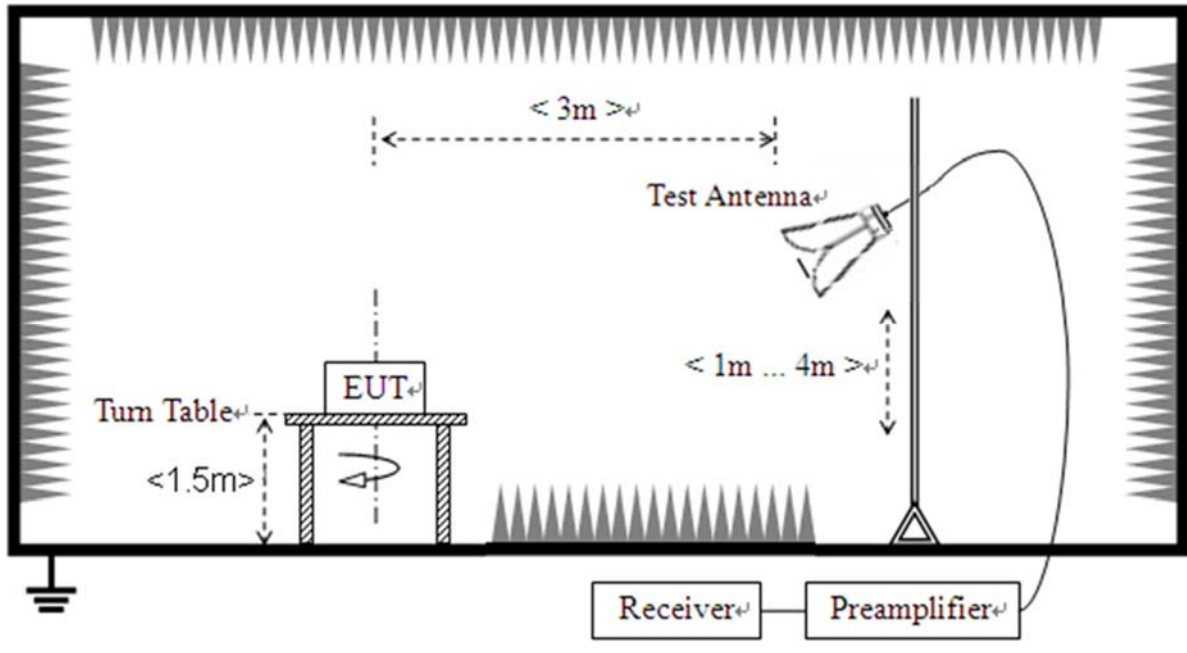
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.



### 2.1.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  were built in test software.

**Note1:** All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note2:** For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

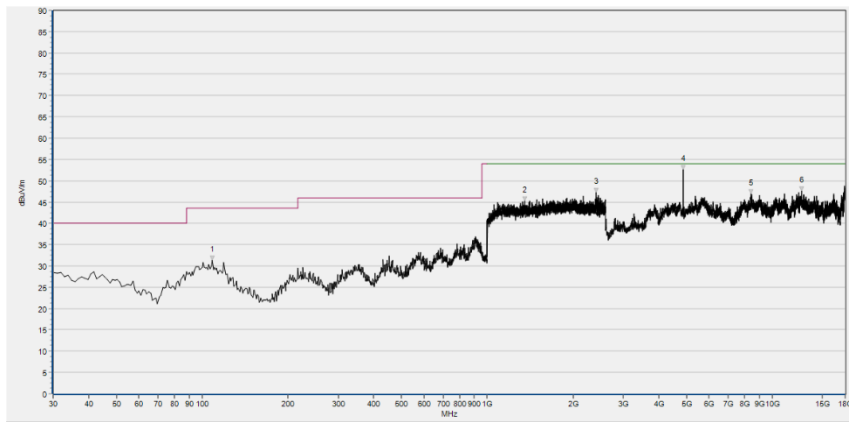
**Note3:** For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.





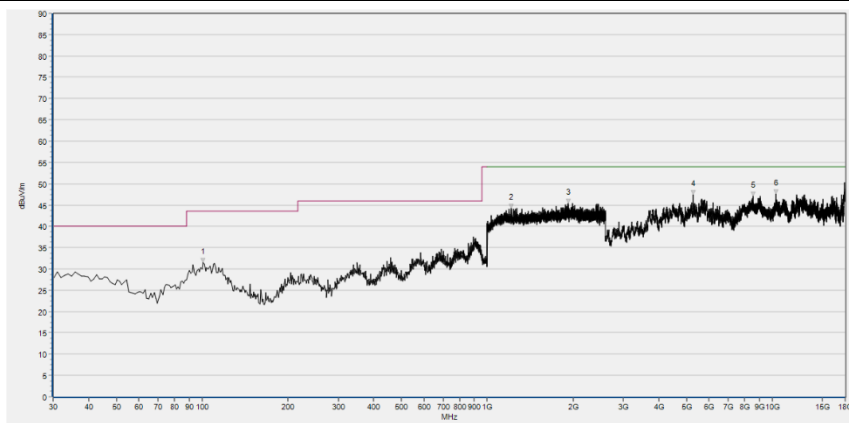
**802.11b Mode**

**Plot for Channel 6**



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 108.570    | 31.41       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1349.867   | 45.33       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2410.133   | 47.25       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4874.000   | 52.63       | N/A         | 50.76       | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 8433.520   | 46.88       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12628.480  | 47.59       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 100.810    | 31.44       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1216.533   | 44.17       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 1918.400   | 45.48       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5285.760   | 47.51       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8572.120   | 47.05       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10318.480  | 47.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)



## Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

| Test Items        | Uncertainty         |
|-------------------|---------------------|
| Radiated Emission | $\pm 2.95\text{dB}$ |

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .



## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

|                            |  |
|----------------------------|--|
| <b>Laboratory Name:</b>    | Shenzhen Morlab Communications Technology Co., Ltd.  |
| <b>Laboratory Address:</b> | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |
| <b>Telephone:</b>          | +86 755 36698555   |
| <b>Facsimile:</b>          | +86 755 36698525   |

### 2. Identification of the Responsible Testing Location

|                 |  |
|-----------------|--|
| <b>Name:</b>    | Shenzhen Morlab Communications Technology Co., Ltd.  |
| <b>Address:</b> | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |

### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

### 4. Test Equipments Utilized

#### 4.1 List of Software Used

| Description    | Manufacturer | Software Version |
|----------------|--------------|------------------|
| TS+ -[JS32-CE] | Tonscend     | V2.5.0.0         |

**4.2 Radiated Test Equipments**

| Equipment Name                       | Serial No.   | Type                  | Manufacturer | Cal. Date  | Due Date   |
|--------------------------------------|--------------|-----------------------|--------------|------------|------------|
| Receiver                             | MY54130016   | N9038A                | Agilent      | 2022.07.06 | 2023.07.05 |
| Test Antenna - Bi-Log                | 9163-519     | VULB 9163             | Schwarzbeck  | 2022.05.25 | 2025.05.24 |
| Test Antenna - Loop                  | 1519-022     | FMZB1519              | Schwarzbeck  | 2022.02.11 | 2025.02.10 |
| Test Antenna – Horn                  | 01774        | BBHA 9120D            | Schwarzbeck  | 2022.07.13 | 2025.07.12 |
| Test Antenna – Horn                  | BBHA9170#773 | BBHA 9170             | Schwarzbeck  | 2022.07.14 | 2025.07.13 |
| Coaxial Cable (N male) (9KHz-30MHz)  | CB04         | EMC04                 | Morlab       | N/A        | N/A        |
| Coaxial Cable (N male) (30MHz-26GHz) | CB02         | EMC02                 | Morlab       | N/A        | N/A        |
| Coaxial Cable (N male) (30MHz-26GHz) | CB03         | EMC03                 | Morlab       | N/A        | N/A        |
| Coaxial Cable (N male) (30MHz-40GHz) | CB05         | EMC05                 | Morlab       | N/A        | N/A        |
| 1-18GHz pre-Amplifier                | 61171/61172  | S020180L3203          | Tonscend     | 2022.07.08 | 2023.07.07 |
| 18-26.5GHz pre-Amplifier             | 46732        | S10M100L3802          | Tonscend     | 2022.07.08 | 2023.07.07 |
| 26-40GHz pre-Amplifier               | 56774        | S40M400L4002          | Tonscend     | 2022.07.08 | 2023.07.07 |
| Notch Filter                         | N/A          | WRCG-2400-2483.5-60SS | Wainwright   | 2022.07.08 | 2023.07.07 |
| Anechoic Chamber                     | N/A          | 9m*6m*6m              | CRT          | 2020.01.06 | 2023.01.05 |

————— END OF REPORT —————