

Report No. : EED32M80145502

Page 1 of 41

# **TEST REPORT**

Product Trade mark Model/Type reference Series Model Number Report Number FCC ID Date of Issue Test Standards Test result

- : RollerMouse mobile
- : CONTOUR
- : RM-Mobile
- : RM-Mobile2, RM-Mobile-Mini, RM-Mobile-CN
- : EED32M80145502
- : 2AG6O-RMOB
- : Jan. 26, 2021
- : 47 CFR Part 15 Subpart C
- : PASS

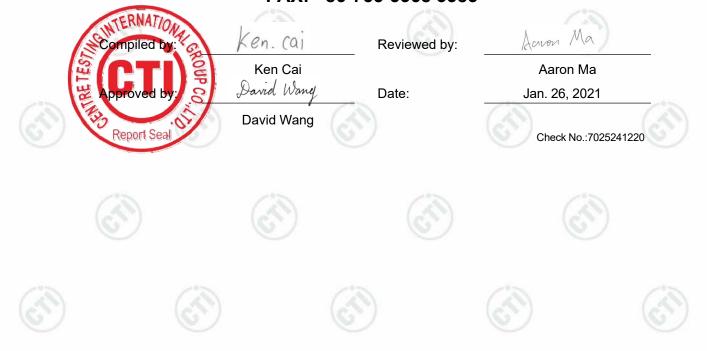
Prepared for:

CONTOUR (GUANGZHOU) DESIGN, INC.

Building B21-2F, Huachuang Animation Park, Panyu, GZ, China

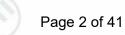
Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385



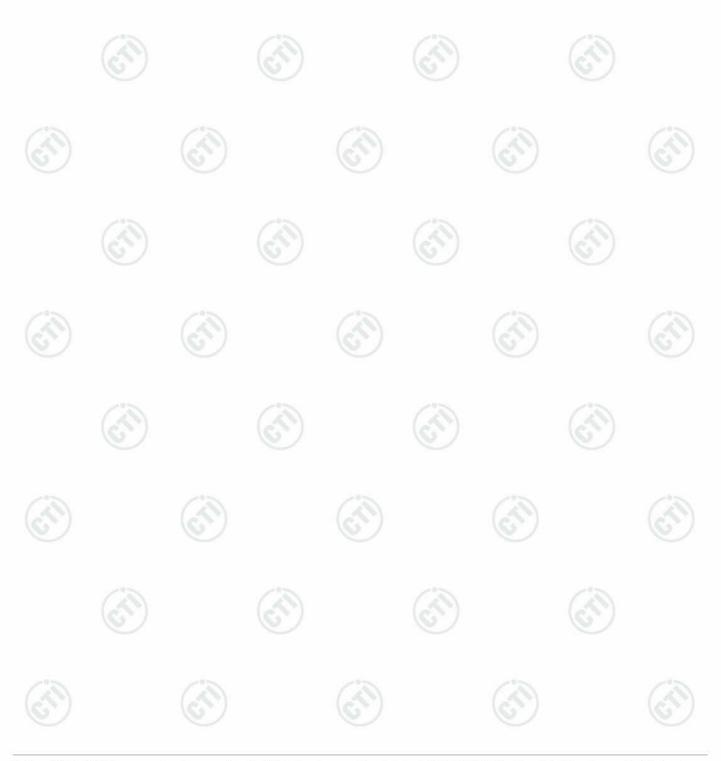






# 1 Version

| Version No. | Date          | 6    | Description | )                                       |
|-------------|---------------|------|-------------|---|
| 00          | Jan. 26, 2021 |      | Original    |   |
| 2           | 1000          | 100  | 1           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| S) .        |               | (dS) |             |   |





## 2 Test Summary

Bandwidth





### Page 3 of 41

| Test Item   | Test Requirement                                      | Test method      | Result |  |
|---|---|------------------|--------|--|
| Antenna Requirement   | 47 CFR Part 15 Subpart C Section<br>15.203            | ANSI C63.10-2013 | PASS   |  |
| AC Power Line<br>Conducted Emission                                     | 47 CFR Part 15 Subpart C Section<br>15.207            | ANSI C63.10-2013 | N/A    |  |
| Field Strength of the<br>Fundamental Signal                             | 47 CFR Part 15 Subpart C Section<br>15.249 (a)        | ANSI C63.10-2013 | PASS   |  |
| Spurious Emissions  | 47 CFR Part 15 Subpart C Section<br>15.249 (a)/15.209 | ANSI C63.10-2013 | PASS   |  |
| Restricted bands around<br>fundamental frequency<br>(Radiated Emission) | 47 CFR Part 15 Subpart C Section<br>15.249(a)/15.205  | ANSI C63.10-2013 | PASS   |  |
| 20dB Occupied<br>Bandwidth  | 47 CFR Part 15 Subpart C Section                      | ANSI C63.10-2013 | PASS   |  |

15.215 (c)

#### Remark:

F

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. N/A: The wireless function does not work in charging(connect to a computer/an adapter) state performed on the EUT.



### CTI 华刻 检测 CENTRE TESTING INTERNATIONAL Report No. : EED32M80145502 3 Contents

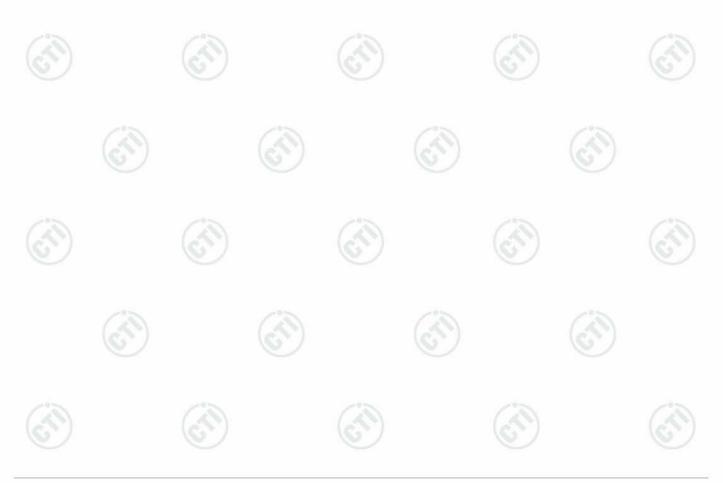




Page 4 of 41

## Page

| 1 VERSION   |  |
|---|--|
| 2 TEST SUMMARY  |  |
| 3 CONTENTS  |  |
| 4 GENERAL INFORMATION   |  |
| <ul> <li>4.1 CLIENT INFORMATION</li></ul>   | 5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 |
| 5 EQUIPMENT LIST  | 8  |
| 6 TEST RESULTS AND MEASUREMENT DATA   |  |
| <ul> <li>6.1 ANTENNA REQUIREMENT</li> <li>6.2 RADIATED SPURIOUS EMISSIONS</li> <li>6.3 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY</li> <li>6.4 20DB BANDWIDTH</li> </ul> |  |
| APPENDIX 1 PHOTOGRAPHS OF TEST SETUP  |  |
| APPENDIX 2 PHOTOGRAPHS OF EUT   |  |









# 4 General Information

# 4.1 Client Information

| Applicant:               | CONTOUR (GUANGZHOU) DESIGN, INC.                            |
|--------------------------|---|
| Address of Applicant:    | Building B21-2F, Huachuang Animation Park, Panyu, GZ, China |
| Manufacturer:            | CONTOUR (GUANGZHOU) DESIGN, INC.                            |
| Address of Manufacturer: | Building B21-2F, Huachuang Animation Park, Panyu, GZ, China |
| Factory:                 | CONTOUR (GUANGZHOU) DESIGN, INC.                            |
| Address of Factory:      | Building B21-2F, Huachuang Animation Park, Panyu, GZ, China |

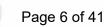
# 4.2 General Description of EUT

| Product Name:         | RollerMouse mobile       | $(\mathcal{A})$   | (3)  |     |
|-----------------------|--------------------------|-------------------|------|-----|
| Model No.:            | RM-Mobile                | U                 | V    | 6   |
| Series Model Number   | RM-Mobile2, RM-Mobile    | -Mini, RM-Mobile- | CN   |     |
| Trade mark:           | CONTOUR                  |                   | -0-  | 100 |
| Hardware Version:     | PCB212.RM01.001          | (                 | A)   | (3) |
| Software Version:     | V1.0                     | 1                 | J    | C   |
| Bluetooth Version:    | 5.1                      |                   |      |     |
| Operation Frequency:  | 2402MHz~2480MHz          | 10.00             |      |     |
| Modulation Type:      | GFSK                     |                   |      |     |
| Number of Channel:    | 79                       | ( )               | 0    |     |
| Test Power Grade:     | Default                  |                   |      |     |
| Test Software of EUT: | Default                  |                   | 12   |     |
| Antenna Type:         | PCB antenna              | (                 | (A)  | 6   |
| Antenna Gain:         | 0dBi                     | (                 | S    | 6   |
| Test voltage:         | DC 3.7V                  |                   |      |     |
| Sample Received Date: | Dec. 25, 2020            |                   |      |     |
| Sample tested Date:   | Dec. 25, 2020 to Jan. 11 | , 2021            |      |     |
| (65)                  | (6.7)                    | (67)              | 10.2 |     |









| Operation | Frequency eac | h of channel | (*)       | (2)     |           | $(\mathcal{A})$ |           |
|-----------|---------------|--------------|-----------|---------|-----------|-----------------|-----------|
| Channel   | Frequency     | Channel      | Frequency | Channel | Frequency | Channel         | Frequency |
| 1         | 2402MHz       | 21           | 2422MHz   | 41      | 2442MHz   | 61              | 2462MHz   |
| 2         | 2403MHz       | 22           | 2423MHz   | 42      | 2443MHz   | 62              | 2463MHz   |
| 3         | 2404MHz       | 23           | 2424MHz   | 43      | 2444MHz   | 63              | 2464MHz   |
| 4         | 2405MHz       | 24           | 2425MHz   | 44      | 2445MHz   | 64              | 2465MHz   |
| 5         | 2406MHz       | 25           | 2426MHz   | 45      | 2446MHz   | 65              | 2466MHz   |
| 6         | 2407MHz       | 26           | 2427MHz   | 46      | 2447MHz   | 66              | 2467MHz   |
| 7         | 2408MHz       | 27           | 2428MHz   | 47      | 2448MHz   | 67              | 2468MHz   |
| 8         | 2409MHz       | 28           | 2429MHz   | 48      | 2449MHz   | 68              | 2469MHz   |
| 9         | 2410MHz       | 29           | 2430MHz   | 49      | 2450MHz   | 69              | 2470MHz   |
| 10        | 2411MHz       | 30           | 2431MHz   | 50      | 2451MHz   | 70              | 2471MHz   |
| _ 11      | 2412MHz       | 31           | 2432MHz   | 51      | 2452MHz   | 71              | 2472MHz   |
| 12        | 2413MHz       | 32           | 2433MHz   | 52      | 2453MHz   | 72              | 2473MHz   |
| 13        | 2414MHz       | 33           | 2434MHz   | 53      | 2454MHz   | 73              | 2474MHz   |
| 14        | 2415MHz       | 34           | 2435MHz   | 54      | 2455MHz   | 74              | 2475MHz   |
| 15        | 2416MHz       | 35           | 2436MHz   | 55      | 2456MHz   | 75              | 2476MHz   |
| 16        | 2417MHz       | 36           | 2437MHz   | 56      | 2457MHz   | 76              | 2477MHz   |
| 17        | 2418MHz       | 37           | 2438MHz   | 57      | 2458MHz   | 77              | 2478MHz   |
| 18        | 2419MHz       | 38           | 2439MHz   | 58      | 2459MHz   | 78              | 2479MHz   |
| 19        | 2420MHz       | 39           | 2440MHz   | 59      | 2460MHz   | 79              | 2480MHz   |
| 20        | 2421MHz       | 40           | 2441MHz   | 60      | 2461MHz   |                 |           |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel                   | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH1)   | 2402MHz   |
| The Middle channel(CH40)  | 2441MHz   |
| The Highest channel(CH79) | 2480MHz   |
|                           |           |





4.3 Test Environment and Mode

| Temperature:          | 24.0 °C                        |                      |
|-----------------------|--------------------------------|----------------------|
| Humidity:             | 54 % RH                        |                      |
| Atmospheric Pressure: | 1010mbar                       |                      |
| Test mode:            |                                |                      |
| Transmitting mode:    | Keep the EUT in transmitting m | ode with modulation. |

Page 7 of 41

# 4.4 Description of Support Units

The EUT has been tested independently

4.5 Test Location



All tests were performed at:

Ì

Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted.

FCC Designation No.: CN1164

# 4.6 Deviation from Standards

None.

# 4.7 Abnormalities from Standard Conditions

None.

# 4.8 Other Information Requested by the Customer None.

# 4.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 2   | Radio Frequency                 | 7.9 x 10 <sup>-8</sup>  |
| 2   | PE nower conducted              | 0.46dB (30MHz-1GHz)     |
| 2   | RF power, conducted             | 0.55dB (1GHz-18GHz)     |
| 3   | Padiated Spurious omission test | 4.3dB (30MHz-1GHz)      |
| 3   | Radiated Spurious emission test | 4.5dB (1GHz-12.75GHz)   |
| 4   | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
| 4   | Conduction emission             | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 3.8%                    |
| 7   | DC power voltages               | 0.026%                  |





# 5 Equipment List

| Conducted disturbance Test   |              |           |   |                           |  |  |  |
|--|--------------|-----------|---|---------------------------|--|--|--|
| Equipment  | Manufacturer | Model No. | Serial<br>Number  | Cal. date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy)  |  |  |
| Receiver   | R&S          | ESCI      | 100435  | 04-28-2020                | 04-27-2021   |  |  |
| Temperature/<br>Humidity Indicator   | Defu         | TH128     | 1   |                           | 6  |  |  |
| LISN   | R&S          | ENV216    | 100098  | 03-05-2020                | 03-04-2021   |  |  |
| Barometer  | changchun    | DYM3      | 1188  |                           |  |  |  |
| and the local sector of th | Cas III Inc. |           | the second se |                           | and the second sec |  |  |

| RF test system                         |                   |                              |                       |                           |                               |  |
|--|-------------------|------------------------------|-----------------------|---------------------------|-------------------------------|--|
| Equipment                              | Manufacturer      | Mode No.                     | Serial<br>Number      | Cal. Date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |  |
| Spectrum<br>Analyzer                   | Keysight          | N9010A                       | MY54510339            | 02-17-2020                | 02-16-2021                    |  |
| Signal Generator                       | Keysight          | N5182B                       | MY53051549            | 02-17-2020                | 02-16-2021                    |  |
| Temperature/<br>Humidity Indicator     | biaozhi           | HM10                         | 1804186               | 06-29-2020                | 06-28-2021                    |  |
| High-pass filter                       | Sinoscite         | FL3CX03WG18<br>NM12-0398-002 |                       |                           | - @                           |  |
| High-pass filter                       | MICRO-<br>TRONICS | SPA-F-63029-4                | $(\underline{\circ})$ |                           | S                             |  |
| DC Power                               | Keysight          | E3642A                       | MY56376072            | 02-17-2020                | 02-16-2021                    |  |
| PC-1                                   | Lenovo            | R4960d                       |                       | 15                        | /                             |  |
| Power unit                             | R&S               | OSP120                       | 101374                | 02-17-2020                | 02-16-2021                    |  |
| RF control unit                        | JS Tonscend       | JS0806-2                     | 158060006             | 02-17-2020                | 02-16-2021                    |  |
| BT&WI-FI<br>Automatic test<br>software | JS Tonscend       | JS1120-3                     |                       |                           |                               |  |

|  |                       | 3M Semi/full-anec    |                  |                           |                               |
|--|-----------------------|----------------------|------------------|---------------------------|-------------------------------|
| Equipment                              | Manufacturer          | Model No.            | Serial<br>Number | Cal. date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |
| 3M Chamber &<br>Accessory<br>Equipment | ток                   | SAC-3                |                  | 05-24-2019                | 05-23-2022                    |
| TRILOG<br>Broadband<br>Antenna         | Schwarzbeck           | VULB9163             | 9163-618         | 05-16-2020                | 05-15-2021                    |
| Loop Antenna                           | Schwarzbeck           | FMZB 1519B           | 1519B-076        | 04-25-2018                | 04-24-2021                    |
| Receiver                               | R&S                   | ESCI7                | 100938-003       | 10-16-2020                | 10-15-2021                    |
| Multi device<br>Controller             | maturo                | NCD/070/10711<br>112 | (A)              | (                         | <u>_</u>                      |
| Temperature/<br>lumidity Indicator     | Shanghai 🤍<br>qixiang | HM10                 | 1804298          | 06-29-2020                | 06-28-2021                    |
| Cable line                             | Fulai(7M)             | SF106                | 5219/6A          |                           |                               |
| Cable line                             | Fulai(6M)             | SF106                | 5220/6A          |                           |                               |
| Cable line                             | Fulai(3M)             | SF106                | 5216/6A          | 1 Cart                    | /                             |
| Cable line                             | Fulai(3M)             | SF106                | 5217/6A          | 1232                      | ( 2                           |





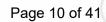


|                                       |                  | 3M full-anechoi       | 1                |                           |                               |
|---------------------------------------|------------------|-----------------------|------------------|---------------------------|-------------------------------|
| Equipment                             | Manufacturer     | Model No.             | Serial<br>Number | Cal. date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |
| RSE Automatic<br>test software        | JS Tonscend      | JS36-RSE              | 10166            |                           |                               |
| Receiver                              | Keysight         | N9038A                | MY57290136       | 03-05-2020                | 03-04-2021                    |
| Spectrum<br>Analyzer                  | Keysight         | N9020B                | MY57111112       | 03-05-2020                | 03-04-2021                    |
| Spectrum<br>Analyzer                  | Keysight         | N9030B                | MY57140871       | 03-05-2020                | 03-04-2021                    |
| TRILOG<br>Broadband<br>Antenna        | Schwarzbeck      | VULB 9163             | 9163-1148        | 04-25-2018                | 04-24-2021                    |
| Horn Antenna                          | Schwarzbeck      | BBHA 9170             | 9170-832         | 04-25-2018                | 04-24-2021                    |
| Horn Antenna                          | ETS-<br>LINDGREN | 3117                  | 00057407         | 07-10-2018                | 07-09-2021                    |
| Preamplifier                          | EMCI             | EMC184055SE           | 980596           | 05-20-2020                | 05-19-2021                    |
| Preamplifier                          | EMCI             | EMC001330             | 980563           | 04-22-2020                | 04-21-2021                    |
| Preamplifier                          | JS Tonscend      | 980380                | EMC051845<br>SE  | 01-09-2020                | 01-08-2021                    |
| Temperature/<br>Humidity<br>Indicator | biaozhi          | GM1360                | EE1186631        | 04-27-2020                | 04-26-2021                    |
| Fully Anechoic<br>Chamber             | TDK              | FAC-3                 |                  | 01-17-2018                | 01-16-2021                    |
| Filter bank                           | JS Tonscend      | JS0806-F              | 188060094        | 04-10-2018                | 04-09-2021                    |
| Cable line                            | Times            | SFT205-NMSM-<br>2.50M | 394812-0001      | /                         | - 6                           |
| Cable line                            | Times            | SFT205-NMSM-<br>2.50M | 394812-0002      | \                         | 9-                            |
| Cable line                            | Times            | SFT205-NMSM-<br>2.50M | 394812-0003      |                           |                               |
| Cable line                            | Times            | SFT205-NMSM-<br>2.50M | 393495-0001      |                           | - /                           |
| Cable line                            | Times            | EMC104-NMNM-<br>1000  | SN160710         |                           | (6                            |
| Cable line                            | Times            | SFT205-NMSM-<br>3.00M | 394813-0001      |                           |                               |
| Cable line                            | Times            | SFT205-NMNM-<br>1.50M | 381964-0001      |                           |                               |
| Cable line                            | Times            | SFT205-NMSM-<br>7.00M | 394815-0001      | (                         | <u>(^)</u>                    |
| Cable line                            | Times            | HF160-KMKM-<br>3.00M  | 393493-0001      |                           |                               |









#### 6 Test results and Measurement Data

### 6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

#### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

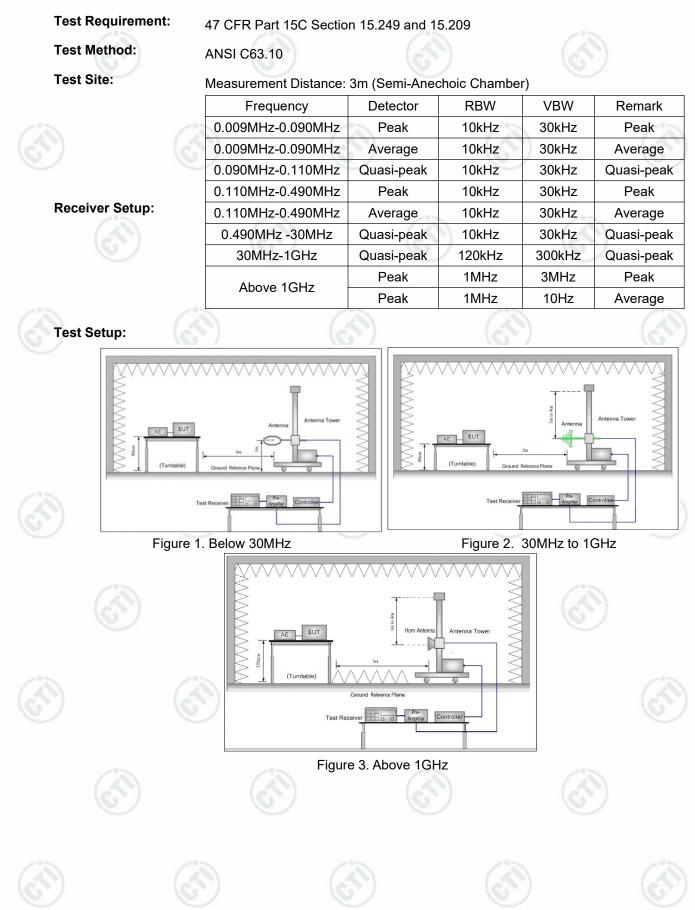
#### **EUT Antenna:**

Please see Internal photos The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0 dBi.

## 6.2 Radiated Spurious Emissions

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Report No. : EED32M80145502



Page 11 of 41

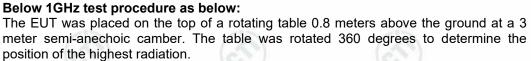






Page 12 of 41

#### Test Procedure:



The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The antenna 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.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, guasi-peak or average method as specified and then reported in a data sheet.

#### Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).

Test the EUT in the lowest channel ,middle channel, the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

| Frequency         | Field strength    | Limit    | Remark     | Measurement  |
|-------------------|-------------------|----------|------------|--------------|
| Trequency         | (microvolt/meter) | (dBµV/m) | Remark     | distance (m) |
| 0.009MHz-0.490MHz | 2400/F(kHz)       | -        | -          | 300          |
| 0.490MHz-1.705MHz | 24000/F(kHz)      | -        | -          | 30           |
| 1.705MHz-30MHz    | 30                | 6.00     | -          | 30           |
| 30MHz-88MHz       | 100               | 40.0     | Quasi-peak | 3            |
| 88MHz-216MHz      | 150               | 43.5     | Quasi-peak | 3            |
| 216MHz-960MHz     | 200               | 46.0     | Quasi-peak | 3            |
| 960MHz-1GHz       | 500               | 54.0     | Quasi-peak | 3            |
| Above 1GHz        | 500               | 54.0     | Average    | 3            |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

| Limit:                 |                     |                    | 100           |  |
|------------------------|---------------------|--------------------|---------------|--|
|                        | Frequency           | Limit (dBµV/m @3m) | Remark        |  |
| (Field strength of the | 2400MU = 2482 ENU = | 94.0               | Average Value |  |
| fundamental signal)    | 2400MHz-2483.5MHz   | 114.0              | Peak Value    |  |

Test Setup: **Exploratory Test** Mode: Final Test Mode: Instruments Used: Test Results:

Transmitting mode Transmitting mode Refer to section 6 for details Pass



Limit:

(Spurious Emissions)



Hotline: 400-6788-333









### Field Strength Of The Fundamental Signal

| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 1  | 2402           | 32.26                 | 3.46                  | -43.12                | 81.51             | 74.8              | 114               | 39.2           | Pass   | н        | PK     |
| 2  | 2402           | 32.26                 | 3.46                  | -43.11                | 96.91             | 90.2              | 114               | 23.8           | Pass   | V        | PK     |
| 3  | 2441           | 32.32                 | 3.35                  | -42.42                | 79.11             | 72.4              | 114               | 41.6           | Pass   | н        | PK     |
| 4  | 2441           | 32.32                 | 3.35                  | -42.42                | 95.21             | 88.5              | 114               | 25.5           | Pass   | V        | PK     |
| 5  | 2480           | 32.37                 | 3.44                  | -43.10                | 78.05             | 71.3              | 114               | 42.7           | Pass   | Н        | PK     |
| 6  | 2480           | 32.37                 | 3.44                  | -43.10                | 93.95             | 87.3              | 114               | 26.7           | Pass   | V        | PK     |
| 7  | 2402           | 32.26                 | 3.46                  | -43.12                | 80.25             | 73.5              | 94                | 20.5           | Pass   | Н        | AV     |
| 8  | 2402           | 32.26                 | 3.46                  | -43.11                | 96.15             | 89.5              | 94                | 4.5            | Pass   | V        | AV     |
| 9  | 2441           | 32.32                 | 3.35                  | -42.42                | 78.39             | 71.8              | 94                | 22.2           | Pass   | Н        | AV     |
| 10 | 2441           | 32.32                 | 3.35                  | -42.42                | 93.9              | 87.3              | 94                | 6.7            | Pass   | V        | AV     |
| 11 | 2480           | 32.37                 | 3.44                  | -43.10                | 76.89             | 70.3              | 94                | 23.7           | Pass   | Н        | AV     |
| 12 | 2480           | 32.37                 | 3.44                  | -43.10                | 93.09             | 86.5              | 94                | 7.5            | Pass   | V        | AV     |

### **Radiated Spurious Emission below 1GHz:**

During the test, the Radiated Spurious Emissions from 30MHz to 1GHz was performed in all modes with all channels, GFSK, Channel 2402MHz was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

| Mode | <b>:</b>       |                       | GFSK                  | Transmitti            | ng                |                   | Channel:          |                | 2402   |          |        |
|------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO   | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1    | 36.5967        | 11.21                 | 0.67                  | -31.38                | 39.36             | 19.86             | 40.00             | 20.14          | Pass   | н        | PK     |
| 2    | 45.7156        | 13.20                 | 0.76                  | -31.77                | 36.53             | 18.72             | 40.00             | 21.28          | Pass   | Н        | PK     |
| 3    | 123.1293       | 8.73                  | 1.31                  | -32.05                | 43.00             | 20.99             | 43.50             | 22.51          | Pass   | Н        | PK     |
| 4    | 208.8859       | 11.13                 | 1.71                  | -31.94                | 43.34             | 24.24             | 43.50             | 19.26          | Pass   | Н        | PK     |
| 5    | 304.0524       | 13.29                 | 2.07                  | -31.60                | 40.00             | 23.76             | 46.00             | 22.24          | Pass   | Н        | PK     |
| 6    | 600.0290       | 19.00                 | 2.96                  | -31.50                | 45.21             | 35.67             | 46.00             | 10.33          | Pass   | Н        | PK     |
| 7    | 34.8505        | 10.69                 | 0.65                  | -31.43                | 39.53             | 19.44             | 40.00             | 20.56          | Pass   | V        | PK     |
| 8    | 52.9913        | 12.72                 | 0.82                  | -32.02                | 37.10             | 18.62             | 40.00             | 21.38          | Pass   | V        | PK     |
| 9    | 130.0170       | 7.70                  | 1.33                  | -32.02                | 47.57             | 24.58             | 43.50             | 18.92          | Pass   | V        | PK     |
| 10   | 208.8859       | 11.13                 | 1.71                  | -31.94                | 43.66             | 24.56             | 43.50             | 18.94          | Pass   | V        | PK     |
| 11   | 304.0524       | 13.29                 | 2.07                  | -31.60                | 41.86             | 25.62             | 46.00             | 20.38          | Pass   | V        | PK     |
| 12   | 600.0290       | 19.00                 | 2.96                  | -31.50                | 44.89             | 35.35             | 46.00             | 10.65          | Pass   | V        | PK     |
| 63   | 2              |                       | 2                     | •                     | 12                | ()                | 6                 | 2              | •      | 65       |        |



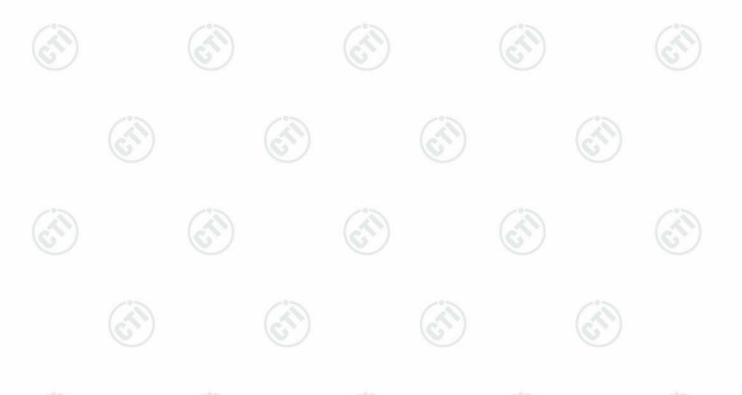






### Radiated Spurious Emission above 1GHz:

| Mod       | e:             |                           | GFSK <sup>-</sup>     | Transmitti            | ng                |                   | Channel:          |                | 2402   |          |        |
|-----------|----------------|---------------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| N<br>O    | Freq.<br>[MHz] | Ant<br>Facto<br>r<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1         | 2434.3434      | 32.31                     | 3.96                  | -43.12                | 51.47             | 44.62             | 74.00             | 29.38          | Pass   | Н        | PK     |
| 2         | 3395.0263      | 33.36                     | 4.56                  | -43.11                | 48.47             | 43.28             | 74.00             | 30.72          | Pass   | Н        | PK     |
| 3         | 3971.0647      | 33.78                     | 4.34                  | -43.01                | 49.20             | 44.31             | 74.00             | 29.69          | Pass   | н        | PK     |
| 4         | 5526.1684      | 35.04                     | 5.16                  | -42.60                | 48.70             | 46.30             | 74.00             | 27.70          | Pass   | н        | PK     |
| 5         | 7600.3067      | 36.56                     | 6.10                  | -42.12                | 48.70             | 49.24             | 74.00             | 24.76          | Pass   | н        | PK     |
| 6         | 9826.4551      | 37.73                     | 6.70                  | -42.10                | 49.61             | 51.94             | 74.00             | 22.06          | Pass   | н        | PK     |
| 7         | 2417.3417      | 32.28                     | 3.94                  | -43.12                | 50.72             | 43.82             | 74.00             | 30.18          | Pass   | V        | PK     |
| 8         | 3596.0397      | 33.48                     | 4.35                  | -43.09                | 49.08             | 43.82             | 74.00             | 30.18          | Pass   | V        | PK     |
| 9         | 5013.1342      | 34.51                     | 4.84                  | -42.80                | 50.79             | 47.34             | 74.00             | 26.66          | Pass   | V        | PK     |
| 10        | 6380.2253      | 35.88                     | 5.37                  | -42.53                | 49.39             | 48.11             | 74.00             | 25.89          | Pass   | V        | PK     |
| 11        | 8502.3668      | 36.61                     | 6.48                  | -42.00                | 48.72             | 49.81             | 74.00             | 24.19          | Pass   | V        | PK     |
| 12        | 10232.4822     | 38.13                     | 6.83                  | -42.05                | 49.40             | 52.31             | 74.00             | 21.69          | Pass   | V        | PK     |
| · · · · · | 14             |                           |                       | 1.4                   | 5                 | 6                 | 2                 |                | (A)    |          |        |



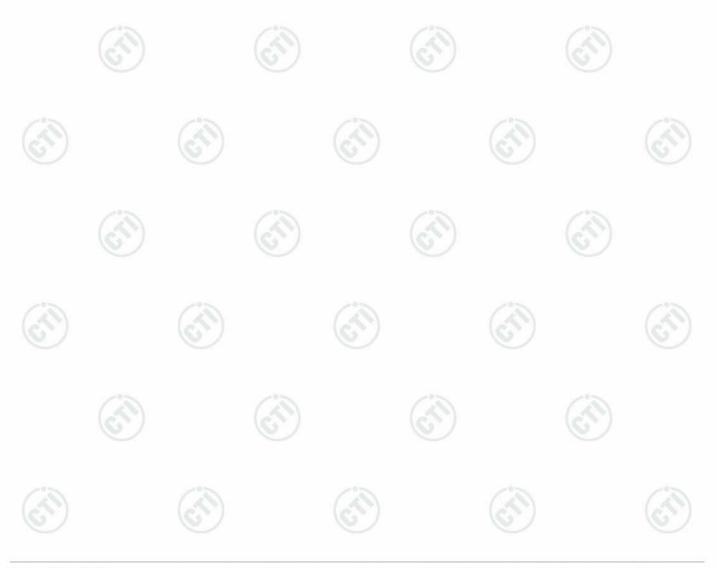




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Page 16 of 41

| Mod    | le:            |                       | GFSK <sup>-</sup>     | Transmitti            | na                |                   | Channel:          |                | 2441   |          |        |
|--------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| N<br>O | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1      | 2290.9291      | 32.11                 | 3.80                  | -43.15                | 50.55             | 43.31             | 74.00             | 30.69          | Pass   | Н        | PK     |
| 2      | 3522.0348      | 33.42                 | 4.47                  | -43.10                | 49.13             | 43.92             | 74.00             | 30.08          | Pass   | Н        | PK     |
| 3      | 5007.1338      | 34.51                 | 4.83                  | -42.80                | 50.52             | 47.06             | 74.00             | 26.94          | Pass   | Н        | PK     |
| 4      | 6380.2253      | 35.88                 | 5.37                  | -42.53                | 49.80             | 48.52             | 74.00             | 25.48          | Pass   | Н        | PK     |
| 5      | 8442.3628      | 36.58                 | 6.39                  | -42.03                | 49.14             | 50.08             | 74.00             | 23.92          | Pass   | Н        | PK     |
| 6      | 10416.4944     | 38.38                 | 7.14                  | -42.01                | 48.36             | 51.87             | 74.00             | 22.13          | Pass   | Н        | PK     |
| 7      | 1281.8282      | 28.18                 | 2.72                  | -42.80                | 50.73             | 38.83             | 74.00             | 35.17          | Pass   | V        | PK     |
| 8      | 1820.6821      | 30.52                 | 3.34                  | -42.76                | 49.23             | 40.33             | 74.00             | 33.67          | Pass   | V        | PK     |
| 9      | 3490.0327      | 33.40                 | 4.48                  | -43.11                | 48.89             | 43.66             | 74.00             | 30.34          | Pass   | V        | PK     |
| 10     | 5033.1355      | 34.53                 | 4.86                  | -42.78                | 50.32             | 46.93             | 74.00             | 27.07          | Pass   | V        | PK     |
| 11     | 6957.2638      | 36.08                 | 5.79                  | -42.22                | 48.42             | 48.07             | 74.00             | 25.93          | Pass   | V        | PK     |
| 12     | 10256.4838     | 38.16                 | 6.83                  | -42.05                | 49.30             | 52.24             | 74.00             | 21.76          | Pass   | V        | PK     |







Page 17 of 41

| Mode | <del>)</del> : |                       | GFSK <sup>-</sup>     | Transmitti            | na                |                   | Channel:          | nnel: 2480     |        |          |        |
|------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO   | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1    | 1825.0825      | 30.55                 | 3.35                  | -42.78                | 49.33             | 40.45             | 74.00             | 33.55          | Pass   | Н        | PK     |
| 2    | 2814.7815      | 32.90                 | 4.24                  | -43.10                | 49.75             | 43.79             | 74.00             | 30.21          | Pass   | н        | PK     |
| 3    | 3900.0600      | 33.72                 | 4.34                  | -43.02                | 49.07             | 44.11             | 74.00             | 29.89          | Pass   | Н        | PK     |
| 4    | 5013.1342      | 34.51                 | 4.84                  | -42.80                | 50.66             | 47.21             | 74.00             | 26.79          | Pass   | Н        | PK     |
| 5    | 6484.2323      | 35.90                 | 5.49                  | -42.51                | 49.24             | 48.12             | 74.00             | 25.88          | Pass   | Н        | PK     |
| 6    | 8918.3946      | 37.52                 | 6.38                  | -42.00                | 49.10             | 51.00             | 74.00             | 23.00          | Pass   | Н        | PK     |
| 7    | 1825.0825      | 30.55                 | 3.35                  | -42.78                | 49.33             | 40.45             | 74.00             | 33.55          | Pass   | н        | AV     |
| 8    | 2564.5565      | 32.50                 | 4.09                  | -43.09                | 50.59             | 44.09             | 74.00             | 29.91          | Pass   | V        | PK     |
| 9    | 3720.0480      | 33.58                 | 4.28                  | -43.06                | 49.42             | 44.22             | 74.00             | 29.78          | Pass   | V        | PK     |
| 10   | 5022.1348      | 34.52                 | 4.85                  | -42.79                | 50.13             | 46.71             | 74.00             | 27.29          | Pass   | V        | PK     |
| 11   | 5946.1964      | 35.71                 | 5.30                  | -42.60                | 48.79             | 47.20             | 74.00             | 26.80          | Pass   | V        | PK     |
| 12   | 7611.3074      | 36.56                 | 6.11                  | -42.13                | 48.63             | 49.17             | 74.00             | 24.83          | Pass   | V        | PK     |
| 13   | 9658.4439      | 37.66                 | 6.70                  | -42.10                | 49.29             | 51.55             | 74.00             | 22.45          | Pass   | V        | PK     |

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

- Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

# 6.3 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205                               |
|-------------------|---|
| Test Method:      | ANSI C63.10   |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber)                        |
| Limit(band edge): | Emissions radiated outside of the specified frequency bands, except for |

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

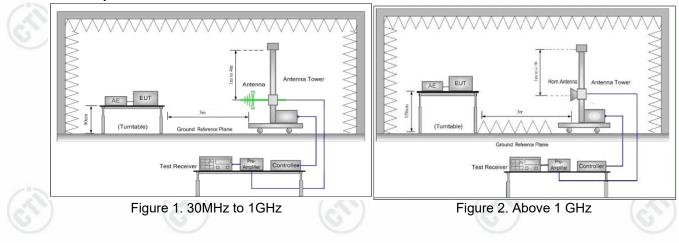
| Frequency     | Limit (dBµV/m @3m) | Remark           |
|---------------|--------------------|------------------|
| 30MHz-88MHz   | 40.0               | Quasi-peak Value |
| 88MHz-216MHz  | 43.5               | Quasi-peak Value |
| 216MHz-960MHz | 46.0               | Quasi-peak Value |
| 960MHz-1GHz   | 54.0               | Quasi-peak Value |
|               | 54.0               | Average Value    |
| Above 1GHz    | 74.0               | Peak Value       |

Page 18 of 41

**Test Setup:** 

华**测**检

Report No. : EED32M80145502





# CTI 华刻 检测 Report No. : EED32M80145502





#### **Test Procedure:**

#### Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel, the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
   Repeat above procedures until all frequencies measured was complete.
- Transmitting mode,Charge +Transmitting mode Pretest the EUT at Transmitting mode and Charge +Transmitting mode. for

Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Only the worst case is recorded in the report.

Refer to section 6 for details

Pass



**Exploratory Test Mode:** 

Final Test Mode:

Instruments Used: Test Results:



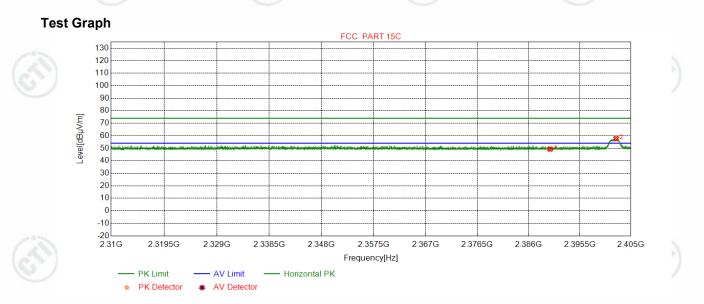






#### Test plot as follows:





| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|------------|
| 1  | 2390.0000      | 32.25                 | 13.37                 | -43.12                | 46.77             | 49.27             | 74.00             | 24.73          | Pass   | Horizontal |
| 2  | 2402.2638      | 32.26                 | 13.31                 | -43.12                | 55.26             | 57.71             | 74.00             | 16.29          | Pass   | Horizontal |









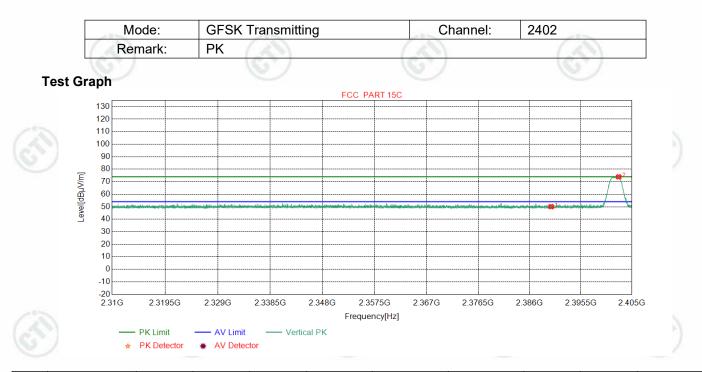












| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|
| 1  | 2390.0000      | 32.25                 | 13.37                 | -43.12                | 47.57             | 50.07             | 74.00             | 23.93          | Pass   | Vertical |
| 2  | 2402.5425      | 32.26                 | 13.31                 | -43.11                | 71.43             | 73.89             | 74.00             | 0.11           | Pass   | Vertical |























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| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|------------|
| 1  | 2390.0000      | 32.25                 | 13.37                 | -43.12                | 35.53             | 38.03             | 54.00             | 15.97          | Pass   | Horizontal |
| 2  | 2401.9851      | 32.26                 | 13.31                 | -43.12                | 44.46             | 46.91             | 54.00             | 7.09           | Pass   | Horizontal |



















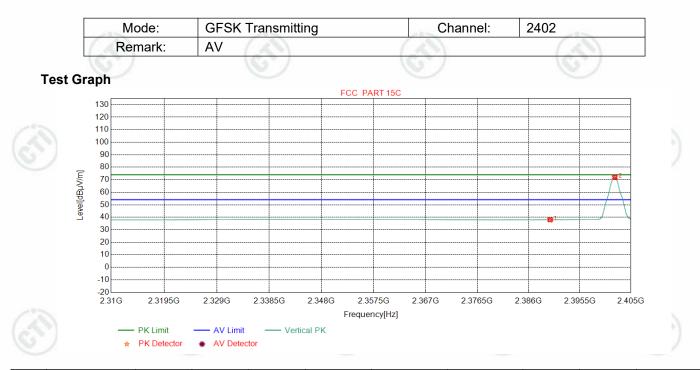












| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|
| 1  | 2390.0000      | 32.25                 | 13.37                 | -43.12                | 35.52             | 38.02             | 54.00             | 15.98          | Pass   | Vertical |
| 2  | 2402.0041      | 32.26                 | 13.31                 | -43.12                | 69.51             | 71.96             | 54.00             | -17.96         | Pass   | Vertical |



















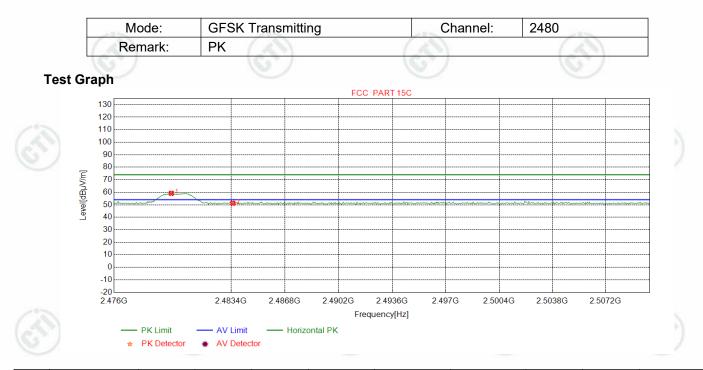












| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|------------|
| 1  | 2479.6170      | 32.37                 | 13.39                 | -43.10                | 56.51             | 59.17             | 74.00             | 14.83          | Pass   | Horizontal |
| 2  | 2483.5000      | 32.38                 | 13.38                 | -43.11                | 48.55             | 51.20             | 74.00             | 22.80          | Pass   | Horizontal |



















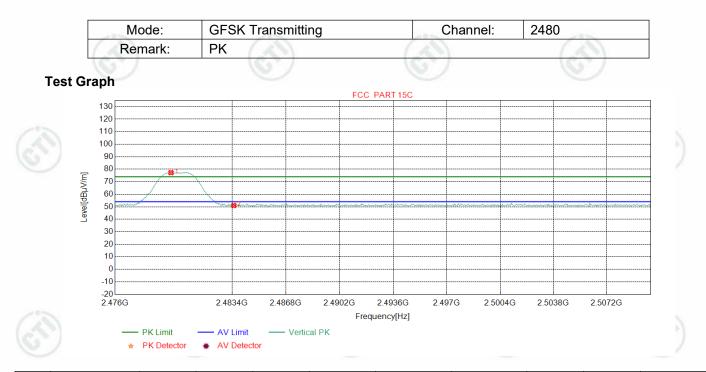












| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|
| 1  | 2479.5319      | 32.37                 | 13.39                 | -43.10                | 74.60             | 77.26             | 74.00             | -3.26          | Pass   | Vertical |
| 2  | 2483.5000      | 32.38                 | 13.38                 | -43.11                | 48.33             | 50.98             | 74.00             | 23.02          | Pass   | Vertical |





















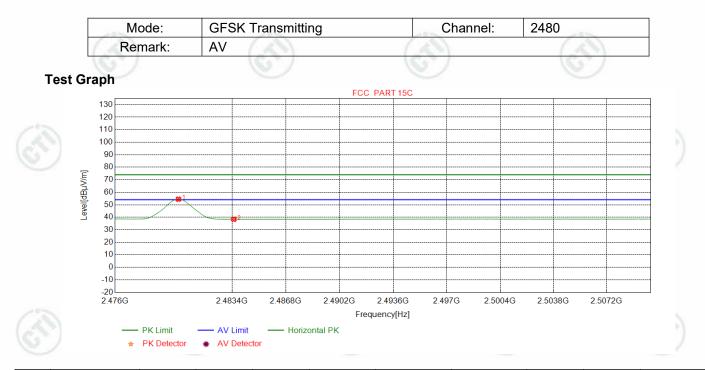




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| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|------------|
| 1  | 2480.0000      | 32.37                 | 13.39                 | -43.10                | 51.80             | 54.46             | 54.00             | -0.46          | Pass   | Horizontal |
| 2  | 2483.5000      | 32.38                 | 13.38                 | -43.11                | 35.74             | 38.39             | 54.00             | 15.61          | Pass   | Horizontal |























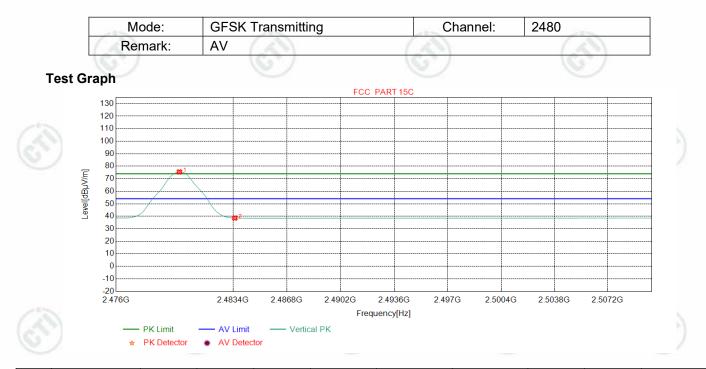












| NO | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|
| 1  | 2480.0000      | 32.37                 | 13.39                 | -43.10                | 72.80             | 75.46             | 54.00             | -21.46         | Pass   | Vertical |
| 2  | 2483.5000      | 32.38                 | 13.38                 | -43.11                | 35.93             | 38.58             | 54.00             | 15.42          | Pass   | Vertical |
| 6  | )              | 6                     | S)                    |                       | $(\mathcal{O})$   |                   | 6                 |                |        | (~)      |

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor

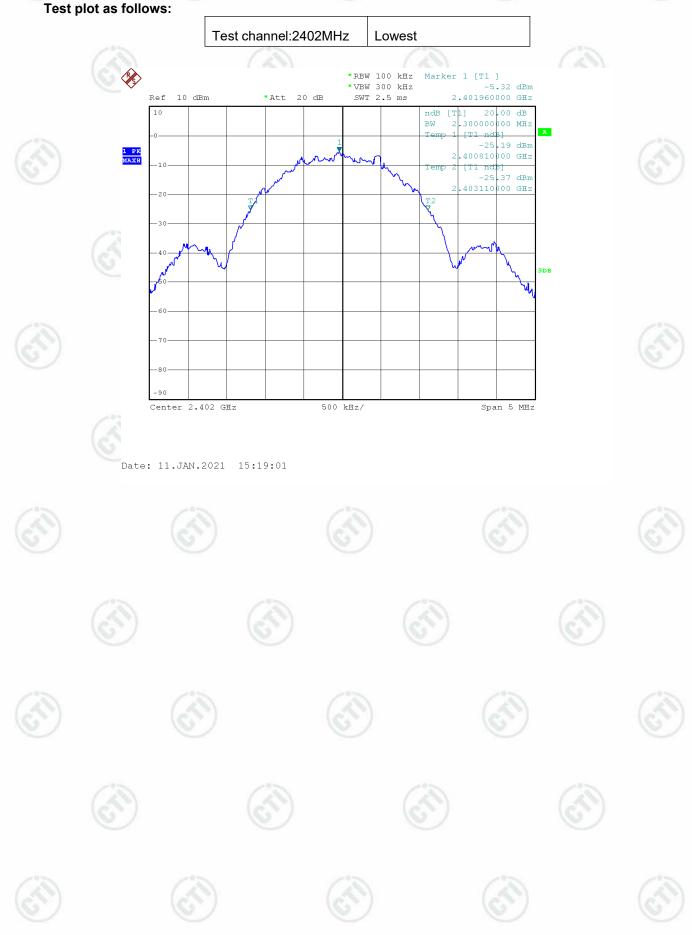


|                                 | <mark>生 测                                   </mark> |   |                                 |                | Page 28 of      | 41 |
|---------------------------------|---|---|---------------------------------|----------------|-----------------|----|
| Test Rec                        | quirement:  | 47 CFR Part 150                           | C Section 15.215                |                |                 |    |
| Test Met                        | hod:  | ANSI C63.10                               |                                 |                |                 |    |
| Test Set                        | up:   | Spectr                                    | rum Analyzer                    | E.U.T<br>Table |                 |    |
|                                 |   |   | Ground Reference                | e Plane        |                 |    |
| Limit:<br>Explorat<br>Final Tes | ory Test Mode:                                      | N/A<br>Transmitter mod<br>Transmitter mod |                                 |                |                 |    |
|                                 | ents Used:  | Refer to section                          | 6 for details                   |                |                 |    |
| Test Res<br>Measure             | sults:<br>ment Data                                 | Pass                                      | (SI)                            |                | (A)             |    |
|                                 |   | 6   | bandwidth (MHz)                 |                | Results         |    |
|                                 | ment Data<br>Test Channel<br>Lowest                 | 6   | bandwidth (MHz)                 |                | Results<br>Pass |    |
| Measure                         | ment Data<br>Test Channel<br>Lowest<br>Middle       | 6   | bandwidth (MHz)<br>2.30<br>2.38 |                | Pass<br>Pass    |    |
| Measure                         | ment Data<br>Test Channel<br>Lowest                 | 6   | bandwidth (MHz)                 |                | Pass            |    |
| Measure                         | ment Data<br>Test Channel<br>Lowest<br>Middle       | 6   | bandwidth (MHz)<br>2.30<br>2.38 |                | Pass<br>Pass    |    |
| Measure                         | ment Data<br>Test Channel<br>Lowest<br>Middle       | 6   | bandwidth (MHz)<br>2.30<br>2.38 |                | Pass<br>Pass    |    |
| Measure                         | ment Data<br>Test Channel<br>Lowest<br>Middle       | 6   | bandwidth (MHz)<br>2.30<br>2.38 |                | Pass<br>Pass    |    |



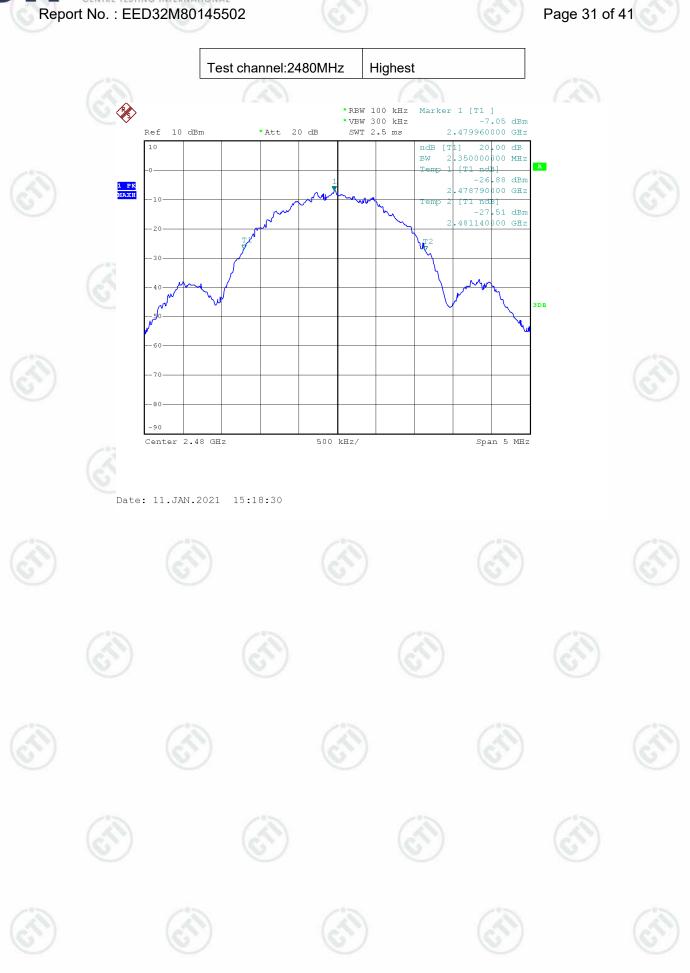


Page 29 of 41







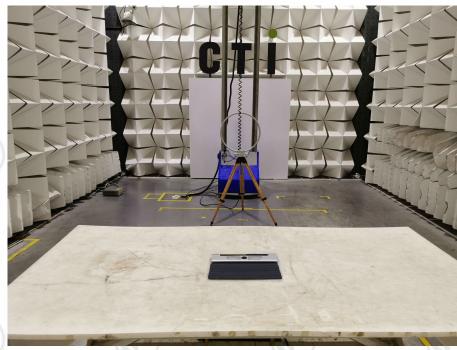






# **APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**

Test Model No.: RM-Mobile



Radiated emission Test Setup-1(Below 30MHz)



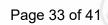
Radiated emission Test Setup-2 (Below 1GHz)

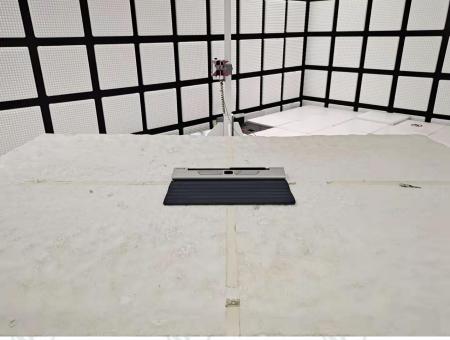












Radiated emission Test Setup-3 (above 1GHz)



Radiated emission Test Setup-4(above 1GHz) There are absorbing materials under the ground.

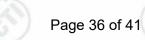
















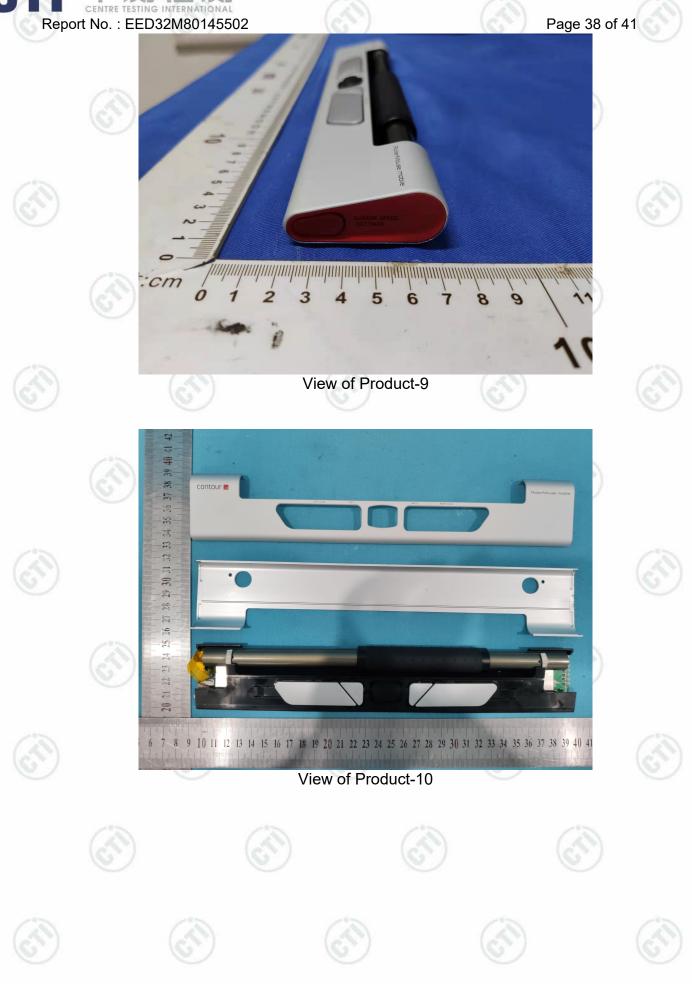
View of Product-5

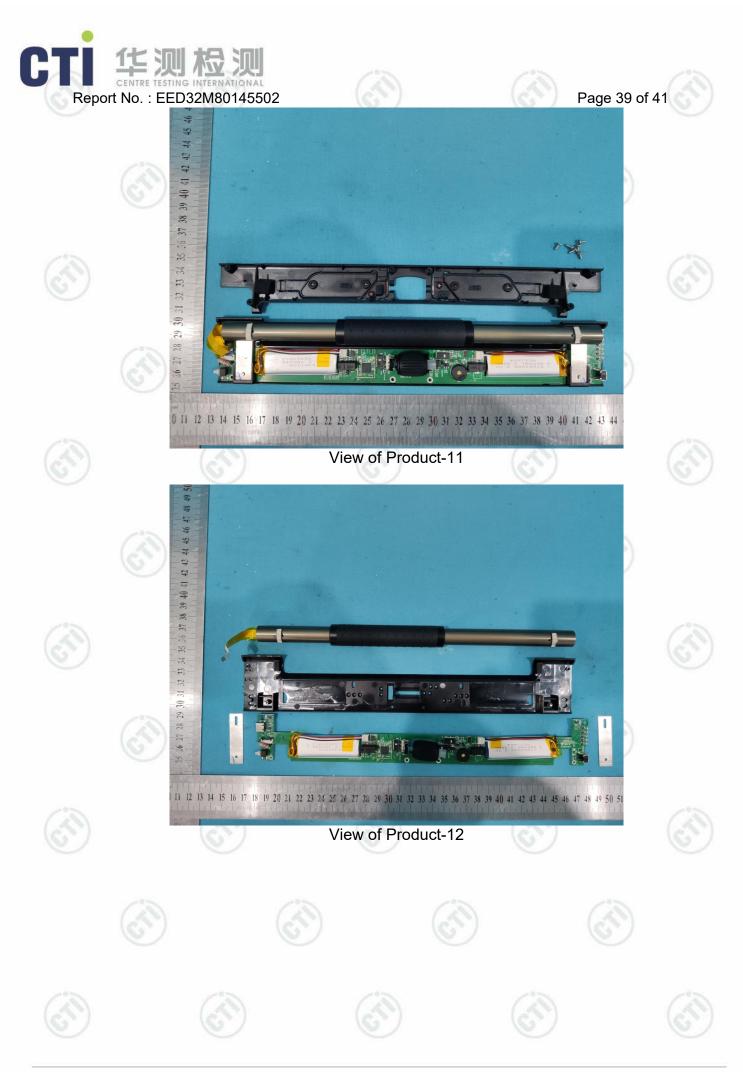


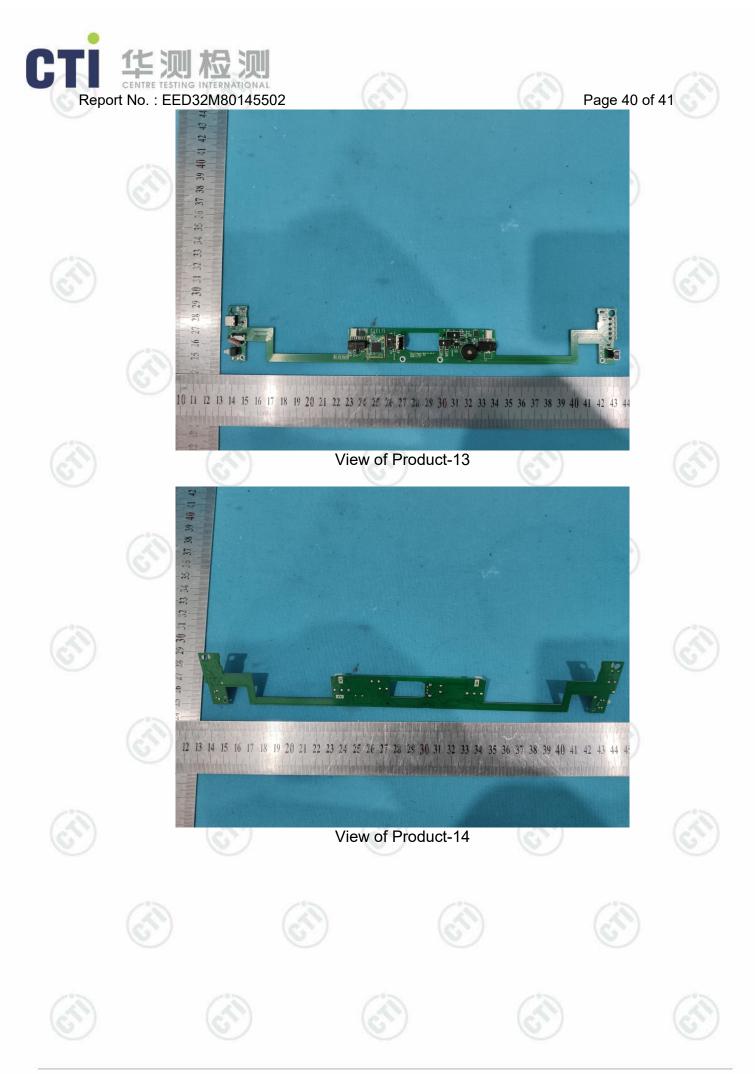














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\*\*\* End of Report \*\*\*

