



# EMC Test Report

Report No.: STS2511195E05

Issued for

HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED

19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,  
Kowloon, HongKong

Product Name: Smart Phone

Brand Name: Blackview

Model Name: ROCK 2 Pro

Series Model(s): N/A

FCC ID: 2BSW8-ROCK2PRO

Test Standards: FCC 47 CFR Part 15: Subpart B

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

**Applicant's Name** .....: HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED  
**Address** .....: 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon,  
HongKong  
**Manufacturer's Name** .....: Shenzhen Doke Electronic Co., LTD  
**Address** .....: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road,  
Guangming District, Shenzhen, China

**Product description**

**Product Name** .....: Smart Phone  
**Brand Name** .....: Blackview  
**Model Name** .....: ROCK 2 Pro  
**Series Model(s)** .....: N/A

**Test Standards** .....: FCC 47 CFR Part 15: Subpart B

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**Date of Test** .....

**Date of Receipt of Test Item** .....: 22 Nov. 2025  
**Date (s) of performance of Tests** .....: 22 Nov. 2025 ~ 03 Dec. 2025  
**Date of Issue** .....: 03 Dec. 2025  
**Test Result** .....: **Pass**

Testing Engineer :

Star Deng

( Star Deng)

Technical Manager :

Brave Wu

(Brave Wu)

Authorized Signatory :

Bovey Yang

( Bovey Yang)





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**Revision History**

| Rev. | Issue Date   | Report No.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 03 Dec. 2025 | STS2511195E05 | ALL         | Initial Issue |
|      |              |               |             |               |



## 1. TEST SUMMARY

Test procedures according to the technical standards:

| EMC Emission                     |                    |        |                    |
|----------------------------------|--------------------|--------|--------------------|
| Standard                         | Test Item          | Result | Remark             |
| FCC 47 CFR Part 15:<br>Subpart B | Conducted Emission | PASS   | Meet Class B limit |
|                                  | Radiated Emissions | PASS   | Meet Class B limit |

**Note:**

(1) "N/A" denotes test is not applicable in this Test Report

### 1.1 TEST FACTORY

|                   |                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name:     | Shenzhen STS Test Services Co. Ltd.                                                                                                           |
| Address:          | 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China |
| Telephone:        | +86-755 3688 6288                                                                                                                             |
| Fax:              | +86-755 3688 6277                                                                                                                             |
| Registration No.: | FCC test Firm Registration Number: 625569                                                                                                     |
|                   | IC test Firm Registration Number: 12108A                                                                                                      |
|                   | A2LA Certificate No.: 4338.01                                                                                                                 |

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

| No. | Item                                       | Uncertainty         |
|-----|--------------------------------------------|---------------------|
| 1   | Conducted Emission (9KHz-150KHz)           | $\pm 2.32\text{dB}$ |
| 2   | Conducted Emission (150KHz-30MHz)          | $\pm 3.06\text{dB}$ |
| 3   | All emissions, radiated(<1G) 30MHz-1000MHz | $\pm 4.23\text{dB}$ |
| 4   | All emissions, radiated(>1G) 1GHz-6GHz     | $\pm 5.13\text{dB}$ |
| 5   | All emissions, radiated(>1G) 6GHz-18GHz    | $\pm 5.37\text{dB}$ |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                     |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Smart Phone                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                       |
| Brand Name          | Blackview                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       |
| Model Name          | ROCK 2 Pro                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |
| Series Model(s)     | N/A                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |
| Model Difference    | N/A                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |
| Product Description | <p>The EUT is a Smart Phone</p> <p>ITE equipment having a primary function of either (or a combination of) entry, storage, display, retrieval, transmission, processing, switching, or control of data and/or telecommunication messages and which may be equipped with one or more ports typically for information transfer.</p> |                                                                                                                                                                                                                       |
| Frequency Bands     | Bluetooth                                                                                                                                                                                                                                                                                                                         | 2402~2480 MHz                                                                                                                                                                                                         |
|                     | 2.4G WLAN                                                                                                                                                                                                                                                                                                                         | 802.11b/g/n(20MHz): 2412~2462MHz<br>802.11n(40MHz):2422~2452MHz                                                                                                                                                       |
|                     | 5.2G WLAN                                                                                                                                                                                                                                                                                                                         | 802.11a/n/ac (20MHz): 5180~5240MHz<br>802.11n /ac(40MHz):5190~5230MHz<br>802.11ac (80MHz):5210MHz                                                                                                                     |
|                     | 5.8G WLAN                                                                                                                                                                                                                                                                                                                         | 802.11a/n/ac (20MHz): 5745~5825MHz<br>802.11n /ac(40MHz):5755~5795MHz<br>802.11ac (80MHz):5775MHz                                                                                                                     |
|                     | GPS                                                                                                                                                                                                                                                                                                                               | 1575.42MHz                                                                                                                                                                                                            |
|                     | GLONASS                                                                                                                                                                                                                                                                                                                           | 1602 MHz                                                                                                                                                                                                              |
|                     | GALILEO                                                                                                                                                                                                                                                                                                                           | 1575.42 MHz                                                                                                                                                                                                           |
|                     | BDS                                                                                                                                                                                                                                                                                                                               | 1561.098MHz                                                                                                                                                                                                           |
|                     | NFC                                                                                                                                                                                                                                                                                                                               | 13.56MHz                                                                                                                                                                                                              |
|                     | GSM                                                                                                                                                                                                                                                                                                                               | GSM850: 824-849 MHz<br>GSM1900: 1850-1910 MHz                                                                                                                                                                         |
|                     | WCDMA                                                                                                                                                                                                                                                                                                                             | WCDMA B2: 1850-1910 MHz<br>WCDMA B5: 824-849 MHz                                                                                                                                                                      |
|                     | LTE                                                                                                                                                                                                                                                                                                                               | LTE Band 2:1850~1910MHz<br>LTE Band 4:1710~1755MHz<br>LTE Band 5:824~849MHz<br>LTE Band 7: 2500-2570MHz<br>LTE Band 12:699~716MHz<br>LTE Band 17:704~716MHz<br>LTE Band 41: 2496-2690 MHz<br>LTE Band 66:1710~1780MHz |
|                     | 5G NR                                                                                                                                                                                                                                                                                                                             | N2: 1850~1910MHz<br>N5: 824-829 MHz                                                                                                                                                                                   |



|                         |                                                                                                                                                                                                        |                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                         |                                                                                                                                                                                                        | N7: 2500-2570MHz<br>N26: 814~849MHz<br>N41:2555~2655MHz<br>N66: 1710~1780MHz<br>N77: 3300~4200 MHz<br>N78: 3450~3560 MHz         |
| Modulation Mode         | BT                                                                                                                                                                                                     | BT(1Mbps): GFSK<br>BT EDR(2Mbps): $\pi/4$ -DQPSK<br>BT EDR(3Mbps): 8DPSK                                                         |
|                         | BLE                                                                                                                                                                                                    | GFSK                                                                                                                             |
|                         | 2.4G WLAN                                                                                                                                                                                              | 802.11b(DSSS):CCK,DQPSK,DBPSK<br>802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM                  |
|                         | 5G WLAN                                                                                                                                                                                                | 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM |
|                         | GPS                                                                                                                                                                                                    | BPSK                                                                                                                             |
|                         | GLONASS                                                                                                                                                                                                | FDMA                                                                                                                             |
|                         | GALILEO                                                                                                                                                                                                | CBOC                                                                                                                             |
|                         | BDS                                                                                                                                                                                                    | QPSK                                                                                                                             |
|                         | NFC                                                                                                                                                                                                    | ASK                                                                                                                              |
|                         | GSM                                                                                                                                                                                                    | GMSK for GSM/GPRS; GMSK and 8PSK for EDGE                                                                                        |
|                         | WCDMA                                                                                                                                                                                                  | WCDMA: QPSK; HSDPA:QPSK/16QAM;<br>HSUPA:BPSK                                                                                     |
|                         | LTE                                                                                                                                                                                                    | QPSK/16QAM                                                                                                                       |
|                         | 5G NR                                                                                                                                                                                                  | DFT-s-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM<br>CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM                                         |
| Rating                  | Input: DC9V 3A 33W                                                                                                                                                                                     |                                                                                                                                  |
| Battery                 | Model: LiU536587PHTT<br>Rated Voltage: 3.85V<br>Charge Limit Voltage: 4.4 V<br>Capacity: 15000mAh, 57.75Wh                                                                                             |                                                                                                                                  |
| Adapter                 | Model: HJ-C6-33-US<br>Input: 100-240V~50/60Hz 0.8A<br>Output: 5.0V===3.0A 15.0W OR 9.0V===3.0A 27.0W OR 12.0V===2.5A 30.0W OR15.0V===2.0A 30.0W OR 20.0V===1.5A 30.0W<br>PPS:3.3V-11V===3.0A 33.0W MAX |                                                                                                                                  |
| Hardware version number | S823H_V2.1                                                                                                                                                                                             |                                                                                                                                  |
| Software version number | ROCK2Pro_EEA_S7608H_V1.0_A16                                                                                                                                                                           |                                                                                                                                  |



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description                                                    |
|--------------|----------------------------------------------------------------|
| Mode 1       | PC+USB Transmitting+SD Card                                    |
| Mode 2       | Charging+Rear camera on                                        |
| Mode 3       | Charging+Front camera on                                       |
| Mode 4       | Charging+Audio+Video                                           |
| Mode 5       | Adapter+USB cable+GSM850 Link+BT Link+WLAN Link+GPS RX+NFC     |
| Mode 6       | Adapter+USB cable+DCS1900 Link +BT Link+WLAN Link+GPS RX+NFC   |
| Mode 7       | Adapter+USB cable+WCDMA B2 Link+BT Link+WLAN Link+GPS RX+NFC   |
| Mode 8       | Adapter+USB cable+WCDMA B5 Link+BT Link+WLAN Link+GPS RX+NFC   |
| Mode 9       | Adapter+USB cable+LTE B2 Link+BT Link+WLAN Link+GPS RX+NFC     |
| Mode 10      | Adapter+USB cable+LTE B4 Link+BT Link+WLAN Link+GPS RX+NFC     |
| Mode 11      | Adapter+USB cable+LTE B5 Link+BT Link+WLAN Link+GPS RX+NFC     |
| Mode 12      | Adapter+USB cable+LTE B7 Link+BT Link+WLAN Link+GPS RX+NFC     |
| Mode 13      | Adapter+USB cable+LTE B12 Link+BT Link+WLAN Link+GPS RX+NFC    |
| Mode 14      | Adapter+USB cable+LTE B17 Link+BT Link+WLAN Link+GPS RX+NFC    |
| Mode 15      | Adapter+USB cable+LTE B41 Link+BT Link+WLAN Link+GPS RX+NFC    |
| Mode 16      | Adapter+USB cable+LTE B66 Link+BT Link+WLAN Link+GPS RX+NFC    |
| Mode 17      | Adapter+USB cable+5G NR N2 Link +BT Link+WLAN Link+GPS RX+NFC  |
| Mode 18      | Adapter+USB cable+5G NR N5 Link +BT Link+WLAN Link+GPS RX+NFC  |
| Mode 19      | Adapter+USB cable+5G NR N7 Link +BT Link+WLAN Link+GPS RX+NFC  |
| Mode 20      | Adapter+USB cable+5G NR N26 Link +BT Link+WLAN Link+GPS RX+NFC |
| Mode 21      | Adapter+USB cable+5G NR N41 Link +BT Link+WLAN Link+GPS RX+NFC |
| Mode 22      | Adapter+USB cable+5G NR N66 Link +BT Link+WLAN Link+GPS RX+NFC |
| Mode 23      | Adapter+USB cable+5G NR N77 Link +BT Link+WLAN Link+GPS RX+NFC |



|         |                                                                    |
|---------|--------------------------------------------------------------------|
| Mode 24 | Adapter+USB cable+5G NR N78 Link +BT Link+WLAN Link+GPS RX+NFC     |
| Mode 25 | Adapter+USB cable+GSM850 Idle+BT Link+WLAN Link+GPS RX+NFC         |
| Mode 26 | Adapter+USB cable+DCS1900 Idle+BT Link+WLAN Link+GPS RX+NFC        |
| Mode 27 | Adapter+USB cable+WCDMA B2 Idle+BT Link+WLAN Link+GPS RX+NFC       |
| Mode 28 | Adapter+USB cable+WCDMA B5 Idle+BT Link+WLAN Link+GPS RX+NFC       |
| Mode 29 | Adapter+USB cable+LTE B2 Idle+BT Link+WLAN Link+GPS RX+NFC         |
| Mode 30 | Adapter+USB cable+LTE B4 Idle+BT Link+WLAN Link+GPS RX+NFC         |
| Mode 31 | Adapter+USB cable+LTE B5 Idle+BT Link+WLAN Link+GPS RX+NFC         |
| Mode 32 | Adapter+USB cable+LTE B7 Idle+BT Link+WLAN Link+GPS RX+NFC         |
| Mode 33 | Adapter+USB cable+LTE B12 Idle+BT Link+WLAN Link+GPS RX+NFC        |
| Mode 34 | Adapter+USB cable+LTE B17 Idle+BT Link+WLAN Link+GPS RX+NFC        |
| Mode 35 | Adapter+USB cable+LTE B41 Idle+BT Link+WLAN Link+GPS RX+NFC        |
| Mode 36 | Adapter+USB cable+LTE B66 Idle+BT Link+WLAN Link+GPS RX+NFC        |
| Mode 37 | Adapter+USB cable+5G NR N2 Idle+BT Link+WLAN Link+GPS RX+NFC       |
| Mode 38 | Adapter+USB cable+5G NR N5 Idle+BT Link+WLAN Link+GPS RX+NFC       |
| Mode 39 | Adapter+USB cable+5G NR N7 Idle+BT Link+WLAN Link+GPS RX+NFC       |
| Mode 40 | Adapter+USB cable+5G NR N26 Idle+BT Link+WLAN Link+GPS RX+NFC      |
| Mode 41 | Adapter+USB cable+5G NR N41 Idle+BT Link+WLAN Link+GPS RX+NFC      |
| Mode 42 | Adapter+USB cable+5G NR N66 Idle+BT Link+WLAN Link+GPS RX+NFC      |
| Mode 43 | Adapter+USB cable+5G NR N77 Idle+BT Link+WLAN Link+GPS RX+NFC      |
| Mode 44 | Adapter+USB cable+5G NR N78 Idle+BT Link+WLAN Link+GPS RX+NFC      |
| Mode 45 | Adapter+USB cable+GSM850 Link+BT Standby+WLAN Standby+GPS RX+NFC   |
| Mode 46 | Adapter+USB cable+DCS1900 Link +BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 47 | Adapter+USB cable+WCDMA B2 Link+BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 48 | Adapter+USB cable+WCDMA B5 Link+BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 49 | Adapter+USB cable+LTE B2 Link+BT Standby+WLAN Standby+GPS RX+NFC   |
| Mode 50 | Adapter+USB cable+LTE B4 Link+BT Standby+WLAN Standby+GPS RX+NFC   |
| Mode 51 | Adapter+USB cable+LTE B5 Link+BT Standby+WLAN                      |



|         |                                                                         |
|---------|-------------------------------------------------------------------------|
|         | Standby+GPS RX+NFC                                                      |
| Mode 52 | Adapter+USB cable+LTE B7 Link+BT Standby+WLAN<br>Standby+GPS RX+NFC     |
| Mode 53 | Adapter+USB cable+LTE B12 Link+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 54 | Adapter+USB cable+LTE B17 Link+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 55 | Adapter+USB cable+LTE B41 Link+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 56 | Adapter+USB cable+LTE B66 Link+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 57 | Adapter+USB cable+5G NR N2 Link +BT Standby+WLAN<br>Standby+GPS RX+NFC  |
| Mode 58 | Adapter+USB cable+5G NR N5 Link +BT Standby+WLAN<br>Standby+GPS RX+NFC  |
| Mode 59 | Adapter+USB cable+5G NR N7 Link +BT Standby+WLAN<br>Standby+GPS RX+NFC  |
| Mode 60 | Adapter+USB cable+5G NR N26 Link +BT<br>Standby+WLAN Standby+GPS RX+NFC |
| Mode 60 | Adapter+USB cable+5G NR N41 Link +BT<br>Standby+WLAN Standby+GPS RX+NFC |
| Mode 62 | Adapter+USB cable+5G NR N66 Link +BT<br>Standby+WLAN Standby+GPS RX+NFC |
| Mode 63 | Adapter+USB cable+5G NR N77 Link +BT<br>Standby+WLAN Standby+GPS RX+NFC |
| Mode 64 | Adapter+USB cable+5G NR N78 Link +BT<br>Standby+WLAN Standby+GPS RX+NFC |
| Mode 65 | Adapter+USB cable+GSM850 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC     |
| Mode 66 | Adapter+USB cable+DCS1900 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 67 | Adapter+USB cable+WCDMA B2 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC   |
| Mode 68 | Adapter+USB cable+WCDMA B5 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC   |
| Mode 69 | Adapter+USB cable+LTE B2 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC     |
| Mode 70 | Adapter+USB cable+LTE B4 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC     |
| Mode 71 | Adapter+USB cable+LTE B5 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC     |
| Mode 72 | Adapter+USB cable+LTE B7 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC     |
| Mode 73 | Adapter+USB cable+LTE B12 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 74 | Adapter+USB cable+LTE B17 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 75 | Adapter+USB cable+LTE B66 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC    |
| Mode 76 | Adapter+USB cable+5G NR N2 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC   |
| Mode 77 | Adapter+USB cable+5G NR N5 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC   |
| Mode 78 | Adapter+USB cable+5G NR N7 Idle+BT Standby+WLAN<br>Standby+GPS RX+NFC   |



|         |                                                                     |
|---------|---------------------------------------------------------------------|
| Mode 79 | Adapter+USB cable+5G NR N26 Idle+BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 80 | Adapter+USB cable+5G NR N66 Idle+BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 81 | Adapter+USB cable+5G NR N77 Idle+BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 82 | Adapter+USB cable+5G NR N78 Idle+BT Standby+WLAN Standby+GPS RX+NFC |
| Mode 83 | Charging + FM                                                       |

| For Conducted Test |                             |
|--------------------|-----------------------------|
| Final Test Mode    | Description                 |
| Mode 1             | PC+USB Transmitting+SD Card |

| For Radiated Test |                         |
|-------------------|-------------------------|
| Final Test Mode   | Description             |
| Mode 2            | Charging+Rear camera on |

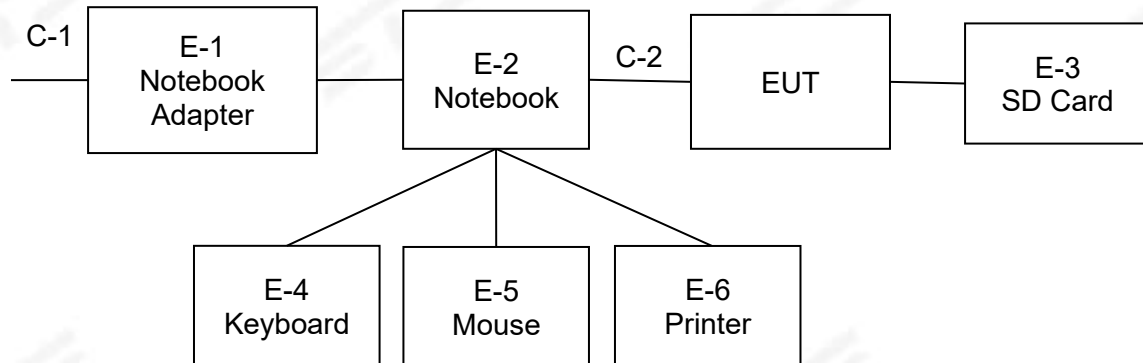
**Note:**

1. In the conducted disturbance test, Mode 1 is the minimum margin mode, and this report only shows the minimum margin mode test data.
2. In the radiation disturbance test, Mode 2 is the minimum margin mode, and this report only shows the minimum margin mode test data.

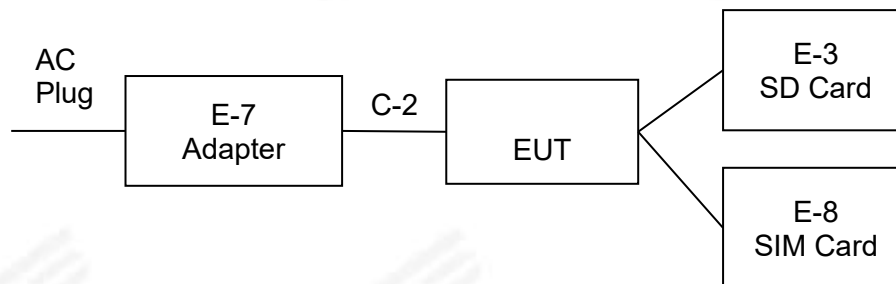


## 2.3 DESCRIPTION OF TEST SETUP

Mode1



Mode2-83





## 2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment        | Mfr/Brand | Model/Type No. | Note |
|------|------------------|-----------|----------------|------|
| E-1  | Notebook Adapter | DELL      | HSTNN-CA15     | N/A  |
| E-2  | Notebook         | DELL      | Inspiron 3501  | N/A  |
| E-3  | SD Card          | Sandisk   | 840XKT-FB      | N/A  |
| E-4  | Keyboard         | HP        | PR1101U        | N/A  |
| E-5  | Mouse            | MOTOSPEED | F66            | N/A  |
| E-6  | Printer          | LENOVO    | LJ2400L        | N/A  |
| E-7  | Adapter          | N/A       | HJ-C6-33-EU    | N/A  |
| E-8  | SIM Card         | Verizon   | QPE            | N/A  |

| Item | Equipment | Ferrite Core | Length | Note |
|------|-----------|--------------|--------|------|
| C-1  | AC Cable  | NO           | 150cm  | N/A  |
| C-2  | USB Cable | NO           | 110cm  | N/A  |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』column.



## 2.5 MEASUREMENT INSTRUMENTS LIST

### 2.5.1 CONDUCTED TEST SITE

| Kind of Equipment      | Manufacturer               | Type No.  | Serial No.       | Last Calibration | Calibrated Until |
|------------------------|----------------------------|-----------|------------------|------------------|------------------|
| EMI Test Receiver      | R&S                        | ESCI      | 101427           | 2025.9.25        | 2026.9.24        |
| LISN                   | R&S                        | ENV216    | 101242           | 2025.9.25        | 2026.9.24        |
| LISN                   | R&S                        | 3810/2NM  | 00023625         | 2025.9.25        | 2026.9.24        |
| Limiter                | CYBERTEK                   | EM5010    | N/A              | 2025.9.25        | 2026.9.24        |
| Absorbing Clamp        | R&S                        | MDS-21    | 100668           | 2025.2.24        | 2026.2.23        |
| CE Cable               | N/A                        | C01       | N/A              | 2025.9.24        | 2026.9.23        |
| Clamp Cable            | N/A                        | C02       | N/A              | 2025.9.24        | 2026.9.23        |
| Loops Cable            | N/A                        | C03       | N/A              | 2025.9.24        | 2026.9.23        |
| ISN                    | SCHWARZBECK                | CAT 6     | NTFM<br>8158#153 | 2025.9.25        | 2026.9.24        |
| Temperature & Humidity | topris                     | TP502V4-P | 6900000422137    | 2025.8.26        | 2026.8.25        |
| Testing Software       | EZ-EMC(Ver.STSLAB-03A1 CE) |           |                  |                  |                  |

### 2.5.2 RADIATED TEST SITE

| Kind of Equipment        | Manufacturer               | Type No.   | Serial No.    | Last Calibration | Calibrated Until |
|--------------------------|----------------------------|------------|---------------|------------------|------------------|
| EMI Test Receiver        | R&S                        | ESCI       | 101427        | 2025.9.25        | 2026.9.24        |
| Bi-log Antenna           | TESEQ                      | CBL6111D   | 45873         | 2025.9.21        | 2026.9.20        |
| Horn Antenna             | SCHWARZBECK                | BBHA 9120D | 9120D-1343    | 2025.9.27        | 2026.9.26        |
| Pre-amplifier(1G-26.5G)  | Agilent                    | HP8449B    | 3008A02383    | 2025.2.22        | 2026.2.21        |
| Pre-amplifier(0.1M-3GHz) | EM                         | EM330      | 060665        | 2025.2.22        | 2026.2.21        |
| Spectrum Analyzer        | Agilent                    | N9020A     | MY49100060    | 2025.9.24        | 2026.9.23        |
| RE Cable (9K-1G)         | N/A                        | R01        | N/A           | 2025.9.24        | 2026.9.23        |
| RE Cable (1G-26G)        | N/A                        | R02        | N/A           | 2025.9.24        | 2026.9.23        |
| Temperature & Humidity   | topris                     | TP502V4-P  | 6900000422328 | 2025.8.26        | 2026.8.25        |
| SAC                      | ChengYu                    | 9*6*6      | N/A           | 2025.8.13        | 2028.8.12        |
| Testing Software         | EZ-EMC(Ver.STSLAB-03A1 RE) |            |               |                  |                  |



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

| FREQUENCY (MHz) | <input type="checkbox"/> Class A (dB $\mu$ V) |         | <input checked="" type="checkbox"/> Class B (dB $\mu$ V) |           |
|-----------------|-----------------------------------------------|---------|----------------------------------------------------------|-----------|
|                 | Quasi-peak                                    | Average | Quasi-peak                                               | Average   |
| 0.15 ~ 0.5      | 79.00                                         | 66.00   | 66 - 56 *                                                | 56 - 46 * |
| 0.5 ~ 5         | 73.00                                         | 60.00   | 56.00                                                    | 46.00     |
| 5 ~ 30          | 73.00                                         | 60.00   | 60.00                                                    | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

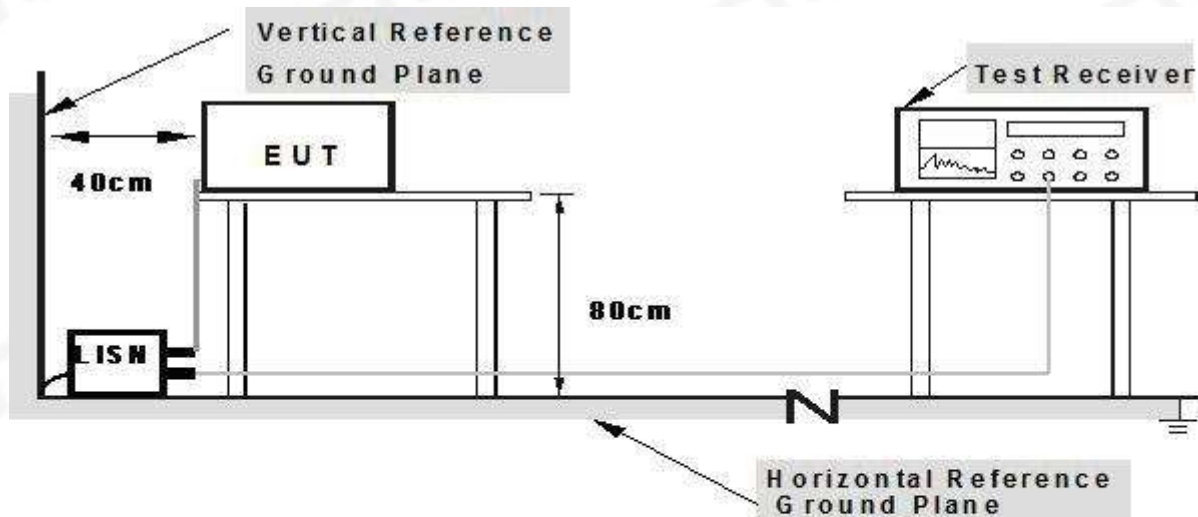
##### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



### 3.1.6 TEST RESULTS

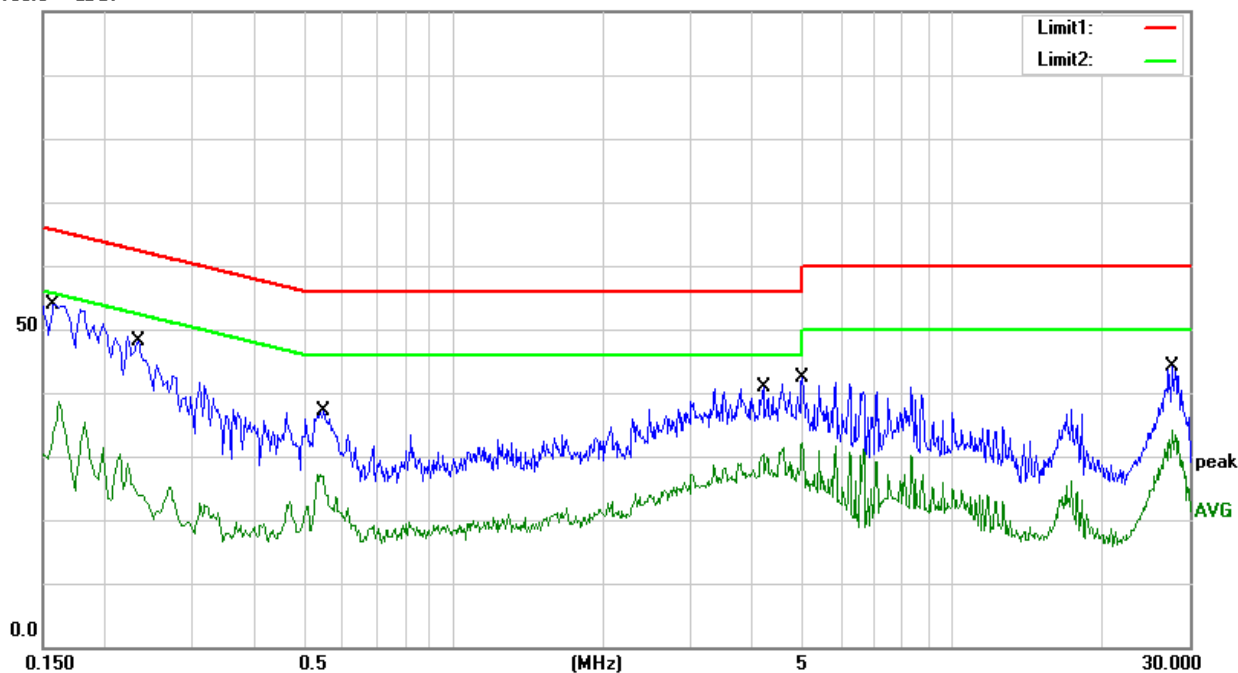
|               |               |                    |            |
|---------------|---------------|--------------------|------------|
| Temperature:  | 25.1℃         | Relative Humidity: | 59%        |
| Phase:        | L             | Test Mode:         | Mode 1     |
| Test Voltage: | DC 5V from PC | Test Date:         | 2025.11.25 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|---------------|--------------|-------------|----------|
| 1   | 0.1580          | 34.09          | 19.87       | 53.96         | 65.57        | -11.61      | QP       |
| 2   | 0.1580          | 18.74          | 19.87       | 38.61         | 55.57        | -16.96      | AVG      |
| 3   | 0.2340          | 28.33          | 19.89       | 48.22         | 62.31        | -14.09      | QP       |
| 4   | 0.2340          | 10.42          | 19.89       | 30.31         | 52.31        | -22.00      | AVG      |
| 5   | 0.5500          | 17.26          | 19.81       | 37.07         | 56.00        | -18.93      | QP       |
| 6   | 0.5500          | 7.35           | 19.81       | 27.16         | 46.00        | -18.84      | AVG      |
| 7   | 4.1860          | 21.08          | 19.82       | 40.90         | 56.00        | -15.10      | QP       |
| 8   | 4.1860          | 11.47          | 19.82       | 31.29         | 46.00        | -14.71      | AVG      |
| 9   | 5.0060          | 22.56          | 19.82       | 42.38         | 60.00        | -17.62      | QP       |
| 10  | 5.0060          | 12.20          | 19.82       | 32.02         | 50.00        | -17.98      | AVG      |
| 11  | 27.7140         | 23.50          | 20.55       | 44.05         | 60.00        | -15.95      | QP       |
| 12  | 27.7140         | 13.52          | 20.55       | 34.07         | 50.00        | -15.93      | AVG      |

**Remark:**

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Insertion loss + Cable loss.

100.0 dBuV





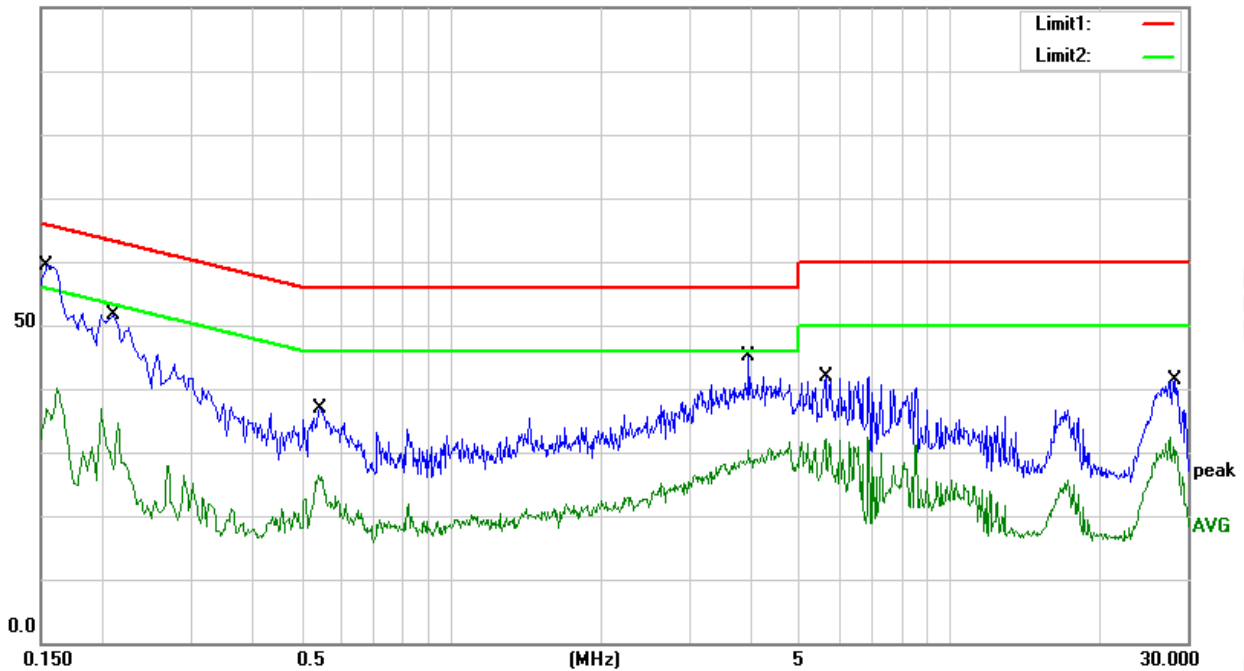
|               |               |                    |            |
|---------------|---------------|--------------------|------------|
| Temperature:  | 25.1℃         | Relative Humidity: | 59%        |
| Phase:        | N             | Test Mode:         | Mode 1     |
| Test Voltage: | DC 5V from PC | Test Date:         | 2025.11.25 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|---------------|--------------|-------------|----------|
| 1   | 0.1540          | 39.49          | 19.83       | 59.32         | 65.78        | -6.46       | QP       |
| 2   | 0.1540          | 20.24          | 19.83       | 40.07         | 55.78        | -15.71      | AVG      |
| 3   | 0.2100          | 31.80          | 19.82       | 51.62         | 63.21        | -11.59      | QP       |
| 4   | 0.2100          | 16.98          | 19.82       | 36.80         | 53.21        | -16.41      | AVG      |
| 5   | 0.5460          | 17.03          | 19.80       | 36.83         | 56.00        | -19.17      | QP       |
| 6   | 0.5460          | 6.68           | 19.80       | 26.48         | 46.00        | -19.52      | AVG      |
| 7   | 3.9500          | 25.37          | 19.82       | 45.19         | 56.00        | -10.81      | QP       |
| 8   | 3.9500          | 10.58          | 19.82       | 30.40         | 46.00        | -15.60      | AVG      |
| 9   | 5.6300          | 22.19          | 19.80       | 41.99         | 60.00        | -18.01      | QP       |
| 10  | 5.6300          | 12.49          | 19.80       | 32.29         | 50.00        | -17.71      | AVG      |
| 11  | 28.3180         | 20.84          | 20.57       | 41.41         | 60.00        | -18.59      | QP       |
| 12  | 28.3180         | 11.73          | 20.57       | 32.30         | 50.00        | -17.70      | AVG      |

## Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Insertion loss + Cable loss.

100.0 dBuV





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

| Frequency<br>(MHz) | <input type="checkbox"/> Class A   | <input checked="" type="checkbox"/> Class B |                                    |
|--------------------|------------------------------------|---------------------------------------------|------------------------------------|
|                    | Field strength<br>(dBuV/m) (at 3m) | Field strength<br>(dBuV/m) (at 10m)         | Field strength<br>(dBuV/m) (at 3m) |
| 30 ~ 88            | 49.5                               | 30                                          | 40                                 |
| 88 ~ 216           | 54                                 | 33.5                                        | 43.5                               |
| 216 ~ 960          | 56.9                               | 36                                          | 46                                 |
| Above 960          | 60                                 | 44                                          | 54                                 |

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

| Frequency<br>(MHz) | <input type="checkbox"/> Class A |         | <input checked="" type="checkbox"/> Class B |         |                  |         |
|--------------------|----------------------------------|---------|---------------------------------------------|---------|------------------|---------|
|                    | (dBuV/m) (at 3m)                 |         | (dBuV/m) (at 10m)                           |         | (dBuV/m) (at 3m) |         |
|                    | Peak                             | Average | Peak                                        | Average | Peak             | Average |
| Above 1000         | 80                               | 60      | 64                                          | 44      | 74               | 54      |

#### Frequency Range of Radiated Disturbance Measurement

| Highest frequency generated or Upper<br>frequency of measurement used in the device<br>or on which the device operates or tunes<br>(MHz) | Range (MHz)                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Below 1.705                                                                                                                              | 30                                                                     |
| 1.705 ~ 108                                                                                                                              | 1000                                                                   |
| 108 ~ 500                                                                                                                                | 2000                                                                   |
| 500 ~ 1000                                                                                                                               | 5000                                                                   |
| Above 1000                                                                                                                               | 5th harmonic of the highest frequency or 40<br>GHz, whichever is lower |

Note:

- (1) The limit for radiated test was performed in the following: FCC PART 15B.
- (2) The tighter limit applies at the band edges
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



### 3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter 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 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

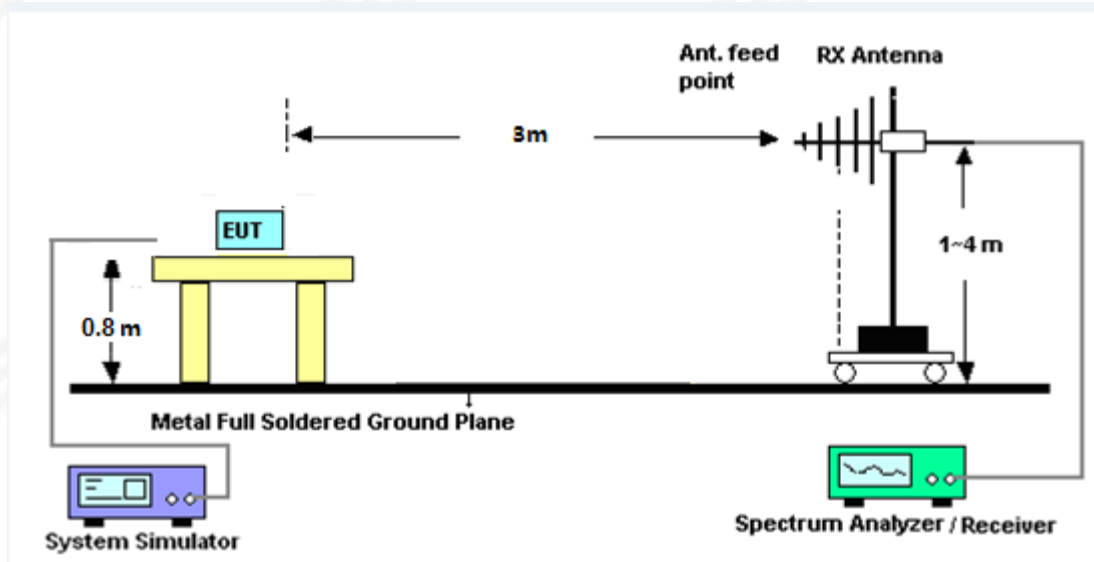
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 3.2.3 DEVIATION FROM TEST STANDARD

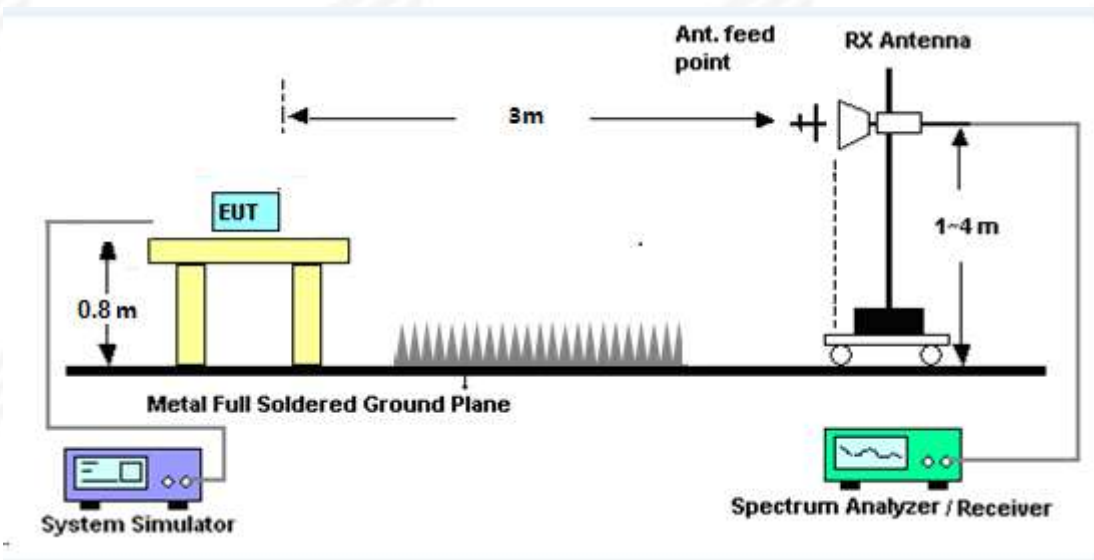
No deviation

### 3.2.4 TEST SETUP

#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



#### (B) Radiated Emission Test Set-Up Frequency Above 1GHz



### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 described unless otherwise a special operating condition is specified in the following during the testing.

**3.2.6 TEST RESULTS (30MHz-1000MHz)**

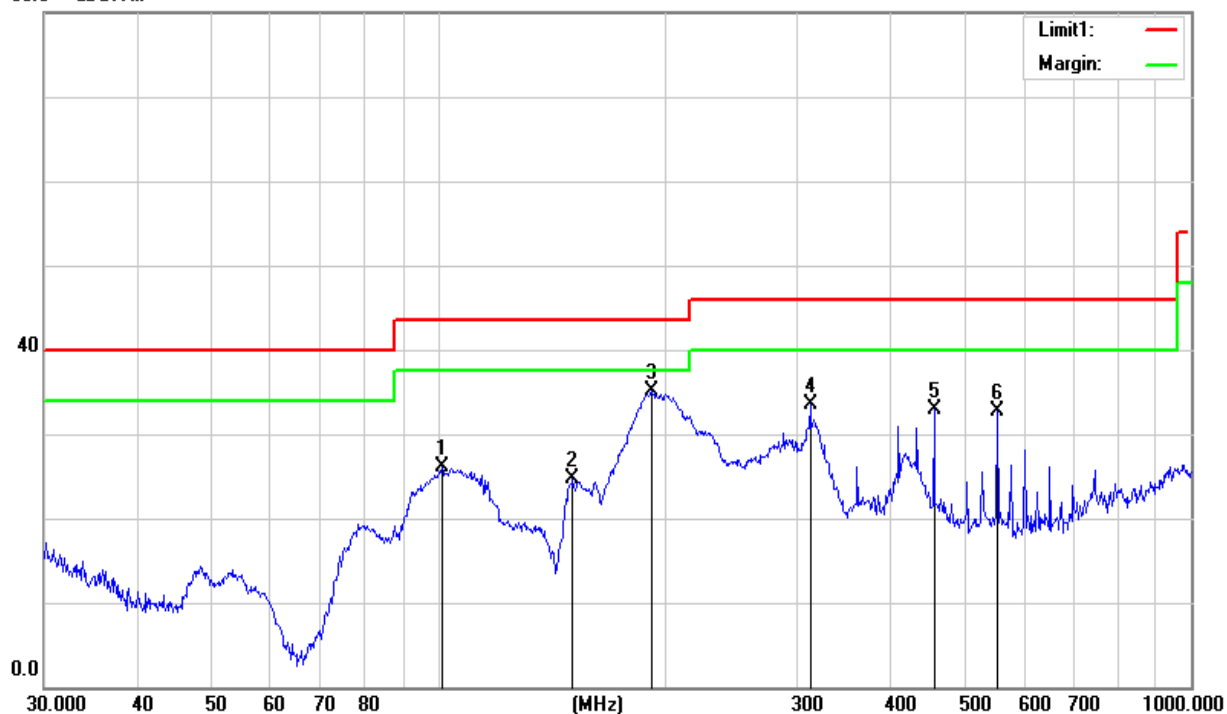
|               |                    |                    |            |
|---------------|--------------------|--------------------|------------|
| Temperature:  | 25.3℃              | Relative Humidity: | 43%        |
| Phase:        | Horizontal         | Test Mode:         | Mode 2     |
| Test Voltage: | DC 9V from Adapter | Test Date:         | 2025.11.24 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|------------------|----------------|-------------|----------|
| 1   | 101.2885        | 46.01          | -19.92      | 26.09            | 43.50          | -17.41      | QP       |
| 2   | 151.0666        | 42.76          | -18.14      | 24.62            | 43.50          | -18.88      | QP       |
| 3   | 192.4186        | 56.46          | -21.34      | 35.12            | 43.50          | -8.38       | QP       |
| 4   | 312.1794        | 48.75          | -15.33      | 33.42            | 46.00          | -12.58      | QP       |
| 5   | 455.9058        | 44.76          | -11.93      | 32.83            | 46.00          | -13.17      | QP       |
| 6   | 552.8832        | 40.93          | -8.28       | 32.65            | 46.00          | -13.35      | QP       |

Remark:

1. All readings are Quasi-Peak.
2. Margin = Result (Result = Reading + Factor )-Limit.
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain.

80.0 dBuV/m



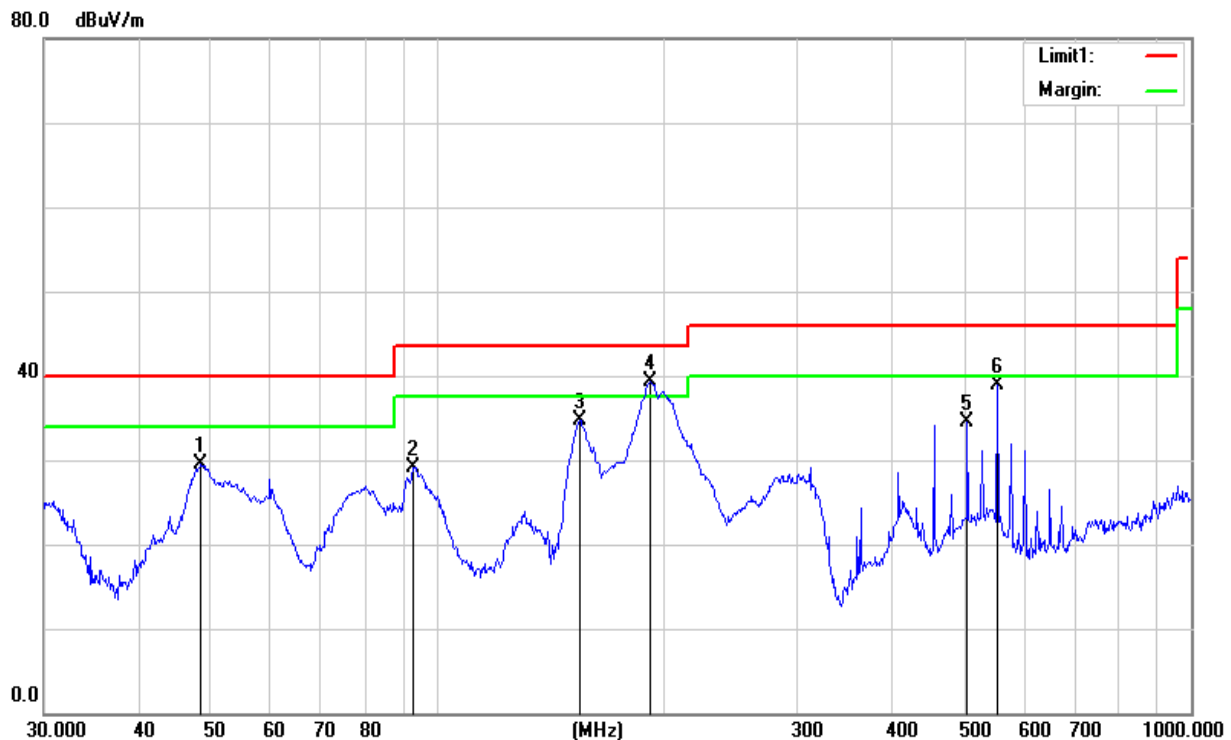


|               |                    |                    |            |
|---------------|--------------------|--------------------|------------|
| Temperature:  | 25.3℃              | Relative Humidity: | 43%        |
| Phase:        | Vertical           | Test Mode:         | Mode 2     |
| Test Voltage: | DC 9V from Adapter | Test Date:         | 2025.11.24 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|------------------|----------------|-------------|----------|
| 1   | 48.5016         | 50.33          | -20.89      | 29.44            | 40.00          | -10.56      | QP       |
| 2   | 92.7871         | 50.18          | -21.10      | 29.08            | 43.50          | -14.42      | QP       |
| 3   | 154.2786        | 53.09          | -18.34      | 34.75            | 43.50          | -8.75       | QP       |
| 4   | 191.7450        | 60.64          | -21.40      | 39.24            | 43.50          | -4.26       | QP       |
| 5   | 504.7062        | 45.00          | -10.56      | 34.44            | 46.00          | -11.56      | QP       |
| 6   | 552.8832        | 47.17          | -8.28       | 38.89            | 46.00          | -7.11       | QP       |

## Remark:

1. All readings are Quasi-Peak.
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Cable Loss + Antenna Factor - Amplifier Gain.



**3.2.7 TEST RESULT (1000-18000 MHz)**

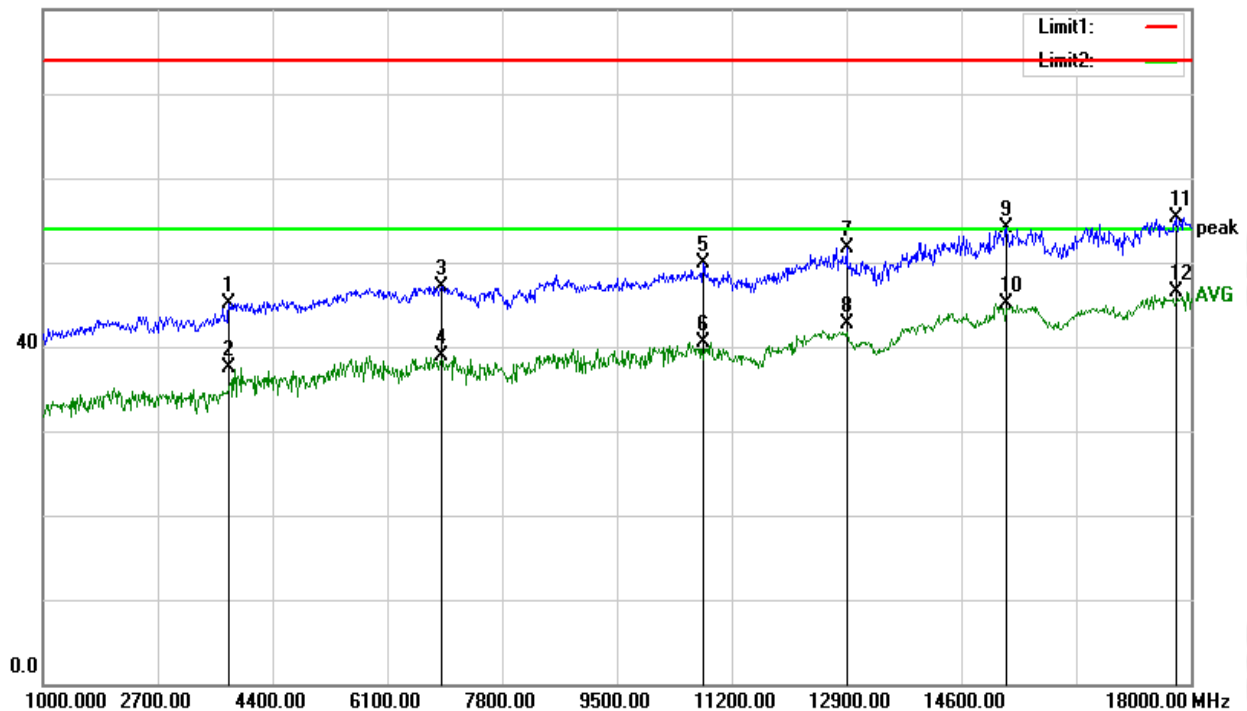
|               |                    |                    |            |
|---------------|--------------------|--------------------|------------|
| Temperature:  | 25.3℃              | Relative Humidity: | 43%        |
| Phase:        | Horizontal         | Test Mode:         | Mode 2     |
| Test Voltage: | DC 9V from Adapter | Test Date:         | 2025.11.24 |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|---------------------|---------------|--------------|-------------|--------|
| 1   | 3762.500        | 41.45          | 3.74                | 45.19         | 74.00        | -28.81      | peak   |
| 2   | 3762.500        | 33.78          | 3.74                | 37.52         | 54.00        | -16.48      | AVG    |
| 3   | 6907.500        | 36.51          | 10.57               | 47.08         | 74.00        | -26.92      | peak   |
| 4   | 6907.500        | 28.32          | 10.57               | 38.89         | 54.00        | -15.11      | AVG    |
| 5   | 10775.000       | 35.83          | 14.03               | 49.86         | 74.00        | -24.14      | peak   |
| 6   | 10775.000       | 26.44          | 14.03               | 40.47         | 54.00        | -13.53      | AVG    |
| 7   | 12900.000       | 36.40          | 15.37               | 51.77         | 74.00        | -22.23      | peak   |
| 8   | 12900.000       | 27.34          | 15.37               | 42.71         | 54.00        | -11.29      | AVG    |
| 9   | 15271.500       | 36.41          | 17.60               | 54.01         | 74.00        | -19.99      | peak   |
| 10  | 15271.500       | 27.46          | 17.60               | 45.06         | 54.00        | -8.94       | AVG    |
| 11  | 17787.500       | 31.14          | 24.24               | 55.38         | 74.00        | -18.62      | peak   |
| 12  | 17787.500       | 22.18          | 24.24               | 46.42         | 54.00        | -7.58       | AVG    |

Remark:

1. All readings are Quasi-Peak.
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Cable Loss + Antenna Factor - Amplifier Gain.

80.0 dBuV/m





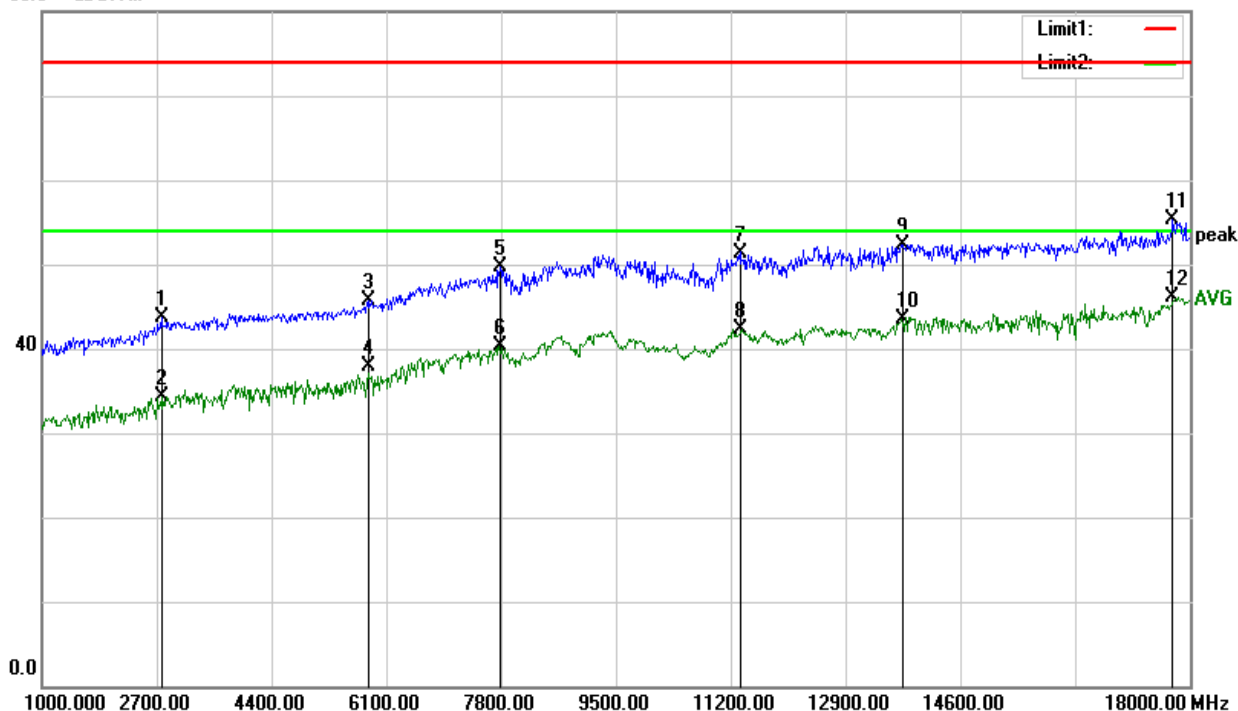
|               |                    |                    |            |
|---------------|--------------------|--------------------|------------|
| Temperature:  | 25.3℃              | Relative Humidity: | 43%        |
| Phase:        | Vertical           | Test Mode:         | Mode 2     |
| Test Voltage: | DC 9V from Adapter | Test Date:         | 2025.11.24 |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|---------------------|---------------|--------------|-------------|--------|
| 1   | 2768.000        | 42.65          | 1.05                | 43.70         | 74.00        | -30.30      | peak   |
| 2   | 2768.000        | 33.30          | 1.05                | 34.35         | 54.00        | -19.65      | AVG    |
| 3   | 5853.500        | 38.27          | 7.50                | 45.77         | 74.00        | -28.23      | peak   |
| 4   | 5853.500        | 30.42          | 7.50                | 37.92         | 54.00        | -16.08      | AVG    |
| 5   | 7783.000        | 38.64          | 11.11               | 49.75         | 74.00        | -24.25      | peak   |
| 6   | 7783.000        | 29.22          | 11.11               | 40.33         | 54.00        | -13.67      | AVG    |
| 7   | 11336.000       | 37.00          | 14.40               | 51.40         | 74.00        | -22.60      | peak   |
| 8   | 11336.000       | 27.96          | 14.40               | 42.36         | 54.00        | -11.64      | AVG    |
| 9   | 13758.500       | 35.93          | 16.47               | 52.40         | 74.00        | -21.60      | peak   |
| 10  | 13758.500       | 27.08          | 16.47               | 43.55         | 54.00        | -10.45      | AVG    |
| 11  | 17753.500       | 31.72          | 23.68               | 55.40         | 74.00        | -18.60      | peak   |
| 12  | 17753.500       | 22.48          | 23.68               | 46.16         | 54.00        | -7.84       | AVG    |

Remark:

1. All readings are Quasi-Peak.
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Cable Loss + Antenna Factor - Amplifier Gain.

80.0 dBuV/m



Notes:

1. Measuring frequencies from 1 GHz to 18GHz
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak and average detector mode of the emission shown in Actual FS column.
3. The frequency emission of 18-25GHz is at least 20dB lower than the limit, and the frequency emission mainly comes from environmental noise.



## APPENDIX 1-PHOTO TEST OF EUT

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※