



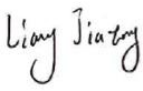
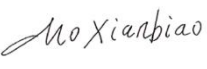
Test Report No.:  
**FCCSZ20214-0014-RF**

## RF Test Report

**FCC ID** : 2BDCL-SL08  
**EUT** : 4G LTE Mobile Wifi  
**MODEL** : SL08  
**BRAND NAME** : N/A  
**APPLICANT** : Signalinks Communication Technology Co.,Ltd  
**Classification Of Test** : N/A

**CVC Testing Technology (Shenzhen) Co., Ltd.**



|                                                                                                                                                                           |            |                                                                                                                                                                  |                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>                                                                                                                                                          |            | Name: Signalinks Communication Technology Co.,Ltd<br>Address: 301,Building No.6, Donglongxing Technology Park,<br>HuaningRoad.Xinshi Community.shenzhenChina     |                                                                                                                                                                   |
| <b>Manufacturer</b>                                                                                                                                                       |            | Name: Signalinks Communication Technology Co.,Ltd<br>Address: 301,Building No.6, Donglongxing Technology Park,<br>HuaningRoad.Xinshi Community.shenzhenChina     |                                                                                                                                                                   |
| <b>Equipment Under Test</b>                                                                                                                                               |            | Product Name: 4G LTE Mobile Wifi<br>Model/Type: SL08<br>Brand Name: N/A<br>Serial NO.: N/A<br>Sample NO.:3-1                                                     |                                                                                                                                                                   |
| Date of Receipt.                                                                                                                                                          | 2024-03-15 | Date of Testing                                                                                                                                                  | 2024-03-15~2024-04-10                                                                                                                                             |
| <b>Test Specification</b>                                                                                                                                                 |            | <b>Test Result</b>                                                                                                                                               |                                                                                                                                                                   |
| FCC Part 15, Subpart C (15.247)                                                                                                                                           |            | PASS                                                                                                                                                             |                                                                                                                                                                   |
| <b>Evaluation of Test Result</b>                                                                                                                                          |            | The equipment under test was found to comply with the requirements of the standards applied.<br><br>Seal of CVC<br><b>Issue Date: 2024-04-12</b>                 |                                                                                                                                                                   |
| Tested by:<br><br><u>Liang Jiatong</u><br>Name                      Signature          |            | Reviewed by:<br><br><u>Mo Xianbiao</u><br>Name                      Signature | Approved by:<br><br><u>Dong Sanbi</u><br>Name                      Signature |
| <b>Other Aspects: NONE.</b>                                                                                                                                               |            |                                                                                                                                                                  |                                                                                                                                                                   |
| Abbreviations:OK,    Pass= passed                      Fail = failed                      N/A= not applicable                      EUT= equipment, sample(s) under tested |            |                                                                                                                                                                  |                                                                                                                                                                   |

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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## RELEASE CONTROL RECORD

| ISSUE NO.         | REASON FOR CHANGE | DATE ISSUED |
|-------------------|-------------------|-------------|
| FCCSZ2024-0014-RF | Original release  | 2024-04-15  |

## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C |                                  |        |                                         |
|------------------------------------------|----------------------------------|--------|-----------------------------------------|
| STANDARD SECTION                         | TEST TYPE AND LIMIT              | RESULT | REMARK                                  |
| FCC 15.207                               | AC Power Conducted Emission      | PASS   | See section 3.1                         |
| FCC 15.247(d)<br>FCC 15.209              | Radiated Emissions               | PASS   | See section 3.2                         |
| FCC 15.247(d)                            | Out of band Emission Measurement | PASS   | Appendix E&F&G of FCCSZ2024-0014-RF1-A1 |
| FCC 15.247(a)(2)                         | 6dB bandwidth                    | PASS   | Appendix A of FCCSZ2024-0014-RF1-A1     |
| /                                        | Occupied Bandwidth Measurement   | PASS   | Appendix B of FCCSZ2024-0014-RF1-A1     |
| FCC 15.247(b)                            | Conducted Output power           | PASS   | Appendix C of FCCSZ2024-0014-RF1-A1     |
| FCC 15.247(e)                            | Power Spectral Density           | PASS   | Appendix D of FCCSZ2024-0014-RF1-A1     |
| FCC 15.203<br>FCC 15.247(b)              | Antenna Requirement              | PASS   | See section 3.8                         |



## 1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

| Equipment                                | Manufacturer  | Model No.          | Serial Number | Cal. interval | Cal. Due  |
|------------------------------------------|---------------|--------------------|---------------|---------------|-----------|
| WIFI & Bluetooth Test System             |               |                    |               |               | /         |
| Signal&Spectrum Analyzer                 | Rohde&Schwarz | FSV 30             | 104408        | 1 year        | 2024.5.21 |
| #3Shielding room                         | MORI          | 443                | N/A           | 3 year        | 2026.5.16 |
| Wideband radio communication tester      | Rohde&Schwarz | CMW 500            | 168778        | 1 year        | 2024.5.25 |
| Analog signal Generator (100kHz ~ 40GHz) | Rohde&Schwarz | SMB 100A           | 181934        | 1 year        | 2024.5.21 |
| Vector signal Generator (9kHz ~ 6GHz)    | Keysight      | N5182B             | MY57301451    | 1 year        | 2024.4.25 |
| Vector signal Generator (9kHz ~ 6GHz)    | Rohde&Schwarz | SGT 100A           | 111724        | 1 year        | 2024.5.21 |
| RF control unit(BT/WiFi)                 | Tonscend      | JS0806-2-8CH       | 20E8060261    | 1 year        | 2024.5.21 |
| Radiation Spurious(Above 1GHz)           |               |                    |               |               | /         |
| Signal&Spectrum Analyzer                 | Rohde&Schwarz | FSV 40             | 101898        | 1 year        | 2024.5.21 |
| EMI Test Receiver                        | Rohde&Schwarz | ESR3               | 102693        | 1 year        | 2024.5.25 |
| Antenna(30MHz~1001MHz)                   | SCHWARZBECK   | VULB 9168          | 1133          | 1 year        | 2025.2.21 |
| Horn antenna(1GHz-18GHz)                 | ETS           | 3117               | 227611        | 1 year        | 2025.3.25 |
| Horn antenna(18GHz-40GHz)                | QMS           | QMS-00880          | 22051         | 1 year        | 2024.3.25 |
| 3m anechoic chamber                      | MORI          | 966                | CS0300011     | 3 year        | 2026.5.18 |
| Filter group(RSE-BT/WiFi)                | Rohde&Schwarz | WiFi /BT Variant 1 | 100820        | 1 year        | 2024.5.21 |
| Filter group(RSE-Cellular)               | Rohde&Schwarz | Cellular Variant 1 | 100768        | 1 year        | 2024.5.21 |
| Preamplifier(10kHz-1GHz)                 | Rohde&Schwarz | SCU-01F            | 100299        | 1 year        | 2024.5.21 |
| Preamplifier(1GHz-18GHz)                 | Rohde&Schwarz | SCU-18F            | 100799        | 1 year        | 2024.5.21 |
| Preamplifier(1GHz-18GHz)                 | Rohde&Schwarz | SCU-18F            | 100801        | 1 year        | 2024.5.21 |
| Preamplifier(18Gz-40GHz)                 | Rohde&Schwarz | SCU-40A            | 101209        | 1 year        | 2024.5.21 |
| #2 control room                          | MORI          | 433                | CS0300028     | 3 year        | 2024.5.21 |
| Temperature and humidity meter           | /             | C193561517         | C193561517    | 1 year        | 2024.5.21 |
| Radiation Spurious(Below 1GHz)           |               |                    |               |               | /         |
| EMI Test Receiver                        | Rohde&Schwarz | ESR 26             | 101718        | 1 year        | 2024.5.25 |
| Loop antenna (8.3k~30MHz)                | Rohde&Schwarz | HFH2-Z2E           | 100951        | 1 year        | 2024.5.26 |
| Antenna(30MHz~1000MHz)                   | SCHWARZBECK   | VULB 9168          | 1132          | 1 year        | 2024.2.14 |
| 3m anechoic chamber                      | MORI          | 966                | CS0200019     | 3 year        | 2026.5.18 |
| Attenuator                               | /             | SJ-5dB             | 607684        | 1 year        | 2024.2.21 |
| #1 control room                          | MORI          | 433                | CS0300028     | 3 year        | 2026.5.16 |
| Temperature and humidity meter           | /             | C193561473         | CS0200071     | 1 year        | 2024.5.21 |
| Conducted emission                       |               |                    |               |               | /         |
| EMI Test Receiver                        | Rohde&Schwarz | ESR3               | 102694        | 1 year        | 2024.5.25 |
| limiter (10 dB)                          | Rohde&Schwarz | ESH3-Z2            | 102824        | 1 year        | 2024.5.16 |
| Voltage probe                            | Rohde&Schwarz | CVP9222C           | 28            | 1 year        | 2024.5.16 |
| Current probe                            | Rohde&Schwarz | EZ-17              | 101442        | 1 year        | 2024.5.21 |
| ISN network                              | Rohde&Schwarz | ENV 81             | 100401        | 1 year        | 2024.5.16 |
| ISN network                              | Rohde&Schwarz | ENV 81 Cat6        | 101896        | 1 year        | 2024.5.16 |
| LISN (single-phase )                     | Rohde&Schwarz | ENV216             | 102569        | 1 year        | 2024.4.11 |
| #1Shielding room                         | MORI          | 854                | N/A           | 3 year        | 2026.5.16 |

## 1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| No.                                 | Item                          | Measurement Uncertainty |
|-------------------------------------|-------------------------------|-------------------------|
| 1                                   | Conducted emission test       | +/-2.7 dB               |
| 2                                   | Radiated emission 9kHz-30MHz  | +/-5.6 dB               |
| 3                                   | Radiated emission 30MHz-1GHz  | +/-4.6 dB               |
| 4                                   | Radiated emission 1GHz-18GHz  | +/-4.4 dB               |
| 5                                   | Radiated emission 18GHz-40GHz | +/-5.1 dB               |
| 6                                   | Occupied Bandwidth            | +/-1.86%                |
| Remark: 95% Confidence Levels, k=2. |                               |                         |

## 1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301, Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen City, Guangdong Province 518110 P.R.China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn

FCC (Test firm designation number: CN1363)

IC (Test firm CAB identifier number: CN0137)

CNAS (Test firm designation number: L16091)



## 2 GENERAL INFORMATION

### 2.1 GENERAL PRODUCT INFORMATION

| PRODUCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4G LTE Mobile Wifi                                                     |                 |             |         |         |          |         |         |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------|-------------|---------|---------|----------|---------|---------|---------|
| BRAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A                                                                    |                 |             |         |         |          |         |         |         |
| TEST MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SL08                                                                   |                 |             |         |         |          |         |         |         |
| ADDITIONAL MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N/A                                                                    |                 |             |         |         |          |         |         |         |
| POWER SUPPLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1. DC 3.7V from battery<br>2. 5V from USB host unit                    |                 |             |         |         |          |         |         |         |
| MODULATIONTECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DSSS, OFDM                                                             |                 |             |         |         |          |         |         |         |
| MODULATION TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM        |                 |             |         |         |          |         |         |         |
| OPERATING FREQUENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2412MHz ~ 2462MHz for 11b/g/n(HT20)<br>2422MHz ~ 2452MHz for 11n(HT40) |                 |             |         |         |          |         |         |         |
| NUMBER OF CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 802.11b/g/n(HT20): 11<br>802.11n(HT40): 7                              |                 |             |         |         |          |         |         |         |
| PEAK OUTPUT POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16.58dBm (Maximum)                                                     |                 |             |         |         |          |         |         |         |
| AVERAGE OUTPUT POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14.10dBm (Maximum)                                                     |                 |             |         |         |          |         |         |         |
| ANTENNA TYPE(Note 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FPC Antenna, 2.46dBi Gain For 2.4G WIFI                                |                 |             |         |         |          |         |         |         |
| FIX FREQUENCY SOFTWARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SecureCRT                                                              |                 |             |         |         |          |         |         |         |
| I/O PORTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to user's manual                                                 |                 |             |         |         |          |         |         |         |
| CABLE SUPPLIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A                                                                    |                 |             |         |         |          |         |         |         |
| <p>Note:</p> <ol style="list-style-type: none"><li>For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.</li><li>For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.</li><li>EUT photo refer to report (Report NO.: FCCSZ2024-0014-EUT).</li><li>Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</li><li>EUT provides a complete transmitter and a receiver.</li></ol> <table><tr><th>MODULATION MODE</th><th>TX FUNCTION</th></tr><tr><td>802.11b</td><td>1TX/1RX</td></tr><tr><td>802. 11g</td><td>1TX/1RX</td></tr><tr><td>802.11n</td><td>1TX/1RX</td></tr></table> |                                                                        | MODULATION MODE | TX FUNCTION | 802.11b | 1TX/1RX | 802. 11g | 1TX/1RX | 802.11n | 1TX/1RX |
| MODULATION MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TX FUNCTION                                                            |                 |             |         |         |          |         |         |         |
| 802.11b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1TX/1RX                                                                |                 |             |         |         |          |         |         |         |
| 802. 11g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1TX/1RX                                                                |                 |             |         |         |          |         |         |         |
| 802.11n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1TX/1RX                                                                |                 |             |         |         |          |         |         |         |

## 2.2 OTHER INFORMATION

Operating frequency of each channel

| 2.4G WIFI         |             |          |             |           |             |
|-------------------|-------------|----------|-------------|-----------|-------------|
| 802.11b/g/n(HT20) |             |          |             |           |             |
| CHANNEL           | FREQ. (MHz) | CHANNEL  | FREQ. (MHz) | CHANNEL   | FREQ. (MHz) |
| <b>1</b>          | <b>2412</b> | 5        | 2432        | 9         | 2452        |
| 2                 | 2417        | <b>6</b> | <b>2437</b> | 10        | 2457        |
| 3                 | 2422        | 7        | 2442        | <b>11</b> | <b>2462</b> |
| 4                 | 2427        | 8        | 2447        |           |             |
| 802.11n(HT40)     |             |          |             |           |             |
| CHANNEL           | FREQ. (MHz) | CHANNEL  | FREQ. (MHz) | CHANNEL   | FREQ. (MHz) |
| <b>3</b>          | <b>2422</b> | <b>6</b> | <b>2437</b> | <b>9</b>  | <b>2452</b> |
| 4                 | 2427        | 7        | 2442        |           |             |
| 5                 | 2432        | 8        | 2447        |           |             |

- The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
- By means of test software which provided by manufacture, the power levels during the tests were set

| 2.4G WIFI       |               |                 |               |                 |               |                 |               |
|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| 802.11b         |               | 802.11g         |               | 802.11n(HT20)   |               | 802.11n(HT40)   |               |
| FREQUENCY (MHZ) | POWER SETTING | FREQUENCY (MHZ) | POWER SETTING | FREQUENCY (MHZ) | POWER SETTING | FREQUENCY (MHZ) | POWER SETTING |
| <b>2412</b>     | 35            | <b>2412</b>     | 35            | <b>2412</b>     | 35            | <b>2422</b>     | 35            |
| <b>2437</b>     | 35            | <b>2437</b>     | 35            | <b>2437</b>     | 35            | <b>2437</b>     | 35            |
| <b>2462</b>     | 35            | <b>2462</b>     | 35            | <b>2462</b>     | 35            | <b>2452</b>     | 35            |

## 2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, xyz axis and antenna ports

| EUT<br>CONFIGURE<br>MODE | APPLICABLE TEST ITEMS |       |     |      | DESCRIPTION        |
|--------------------------|-----------------------|-------|-----|------|--------------------|
|                          | RE<1G                 | RE≥1G | PLC | APCM |                    |
| A                        | √                     | √     | √   | √    | 2.4G WIFI Function |

Where **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission

**RE≥1G**: Radiated Emission above 1GHz  
**APCM**: Antenna Port Conducted Measurement

| MODULATION   | DATA RATE |
|--------------|-----------|
| 802.11b      | 1Mbps     |
| 802.11g      | 6Mbps     |
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

### RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT<br>CONFIGURE<br>MODE | MODE    | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | DATA RATE<br>(Mbps) |
|--------------------------|---------|----------------------|-------------------|--------------------------|--------------------|---------------------|
| A                        | 802.11b | 1 to 11              | 1                 | DSSS                     | DBPSK              | 1.0                 |

For the test results, only the worst case was shown in test report.

### RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT<br>CONFIGURE<br>MODE | MODE          | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | DATA RATE<br>PARAMETER |
|--------------------------|---------------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| A                        | 802.11b       | 1 to 11              | 1, 6, 11          | DSSS                     | DBPSK              | 1.0 Mbps               |
| A                        | 802.11g       | 1 to 11              | 1, 6, 11          | OFDM                     | BPSK               | 6.0 Mbps               |
| A                        | 802.11n(HT20) | 1 to 11              | 1, 6, 11          | OFDM                     | BPSK               | MCS0                   |
| A                        | 802.11n(HT40) | 3 to 9               | 3, 6, 9           | OFDM                     | BPSK               | MCS0                   |

**POWER LINE CONDUCTED EMISSION TEST:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | TESTED CONDITION |
|--------------------|------------------|
| -                  | WIFI (2.4G) Link |

**ANTENNA PORT CONDUCTED MEASUREMENT:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE          | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|---------------|-------------------|----------------|-----------------------|-----------------|------------------|
| A                  | 802.11b       | 1 to 11           | 1, 6, 11       | DSSS                  | DBPSK           | 1.0 Mbps         |
| A                  | 802.11g       | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.0 Mbps         |
| A                  | 802.11n(HT20) | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | MCS0             |
| A                  | 802.11n(HT40) | 3 to 9            | 3, 6, 9        | OFDM                  | BPSK            | MCS0             |

**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | TEST VOLTAGE (SYSTEM)  | TESTED BY    |
|---------------|--------------------------|------------------------|--------------|
| RE<1G         | 24deg. C, 55%RH          | DC 3.3V from host unit | Liu Yuan     |
| RE≥1G         | 24deg. C, 55%RH          | DC 3.3V from host unit | Liu Yuan     |
| PLC           | 24deg. C, 55%RH          | DC 3.3V from host unit | Wang Zhiming |
| APCM          | 25deg. C, 58%RH          | DC 3.3V from host unit | Liu Yuan     |

## 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

**FCC PART 15, Subpart C. Section 15.247**  
**KDB 558074 D01 15.247 Meas Guidance v05r02**  
**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards

## 2.5 DESCRIPTION OF SUPPORT UNITS

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.

| Support Equipment |             |                   |             |                      |                    |                |             |
|-------------------|-------------|-------------------|-------------|----------------------|--------------------|----------------|-------------|
| NO                | Description | Brand             |             | Model No.            | Serial Number      | Supplied by    |             |
| 1                 | Laptop      | Lenovo            |             | K4e-ARE120           | MP20kshe           | Lab            |             |
|                   |             |                   |             |                      |                    |                |             |
| Support Cable     |             |                   |             |                      |                    |                |             |
| NO                | Description | Quantity (Number) | Length (cm) | Detachable (Yes/ No) | Shielded (Yes/ No) | Cores (Number) | Supplied by |
| N/A               | N/A         | N/A               | N/A         | N/A                  | N/A                | N/A            | N/A         |
|                   |             |                   |             |                      |                    |                |             |

### 3 TEST TYPES AND RESULTS

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 Limit

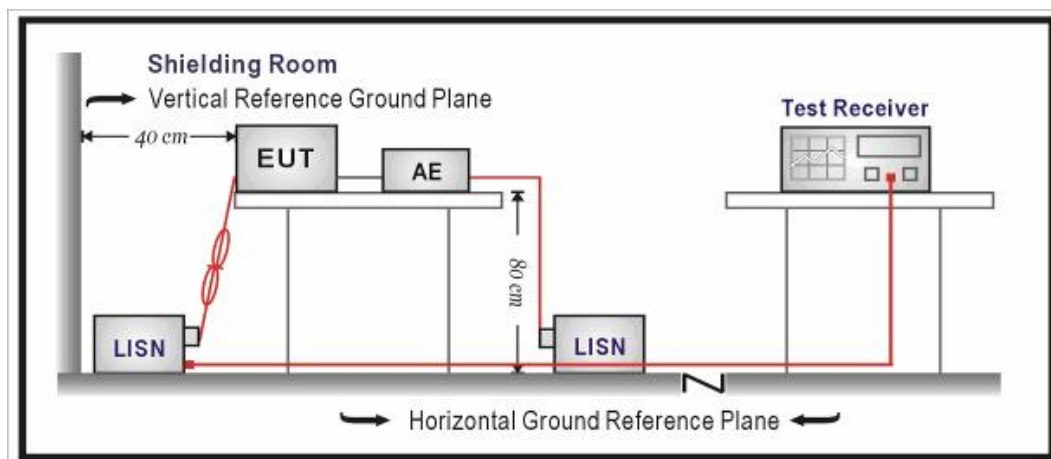
| Frequency<br>(MHz) | Conducted Limits(dB $\mu$ V) |           |
|--------------------|------------------------------|-----------|
|                    | Quasi-peak                   | Average   |
| 0.15 - 0.5         | 66 to 56 *                   | 56 to 46* |
| 0.5 - 5            | 56                           | 46        |
| 5 - 30             | 60                           | 50        |

NOTE: 1. The lower limit shall apply at the transition frequencies.  
NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

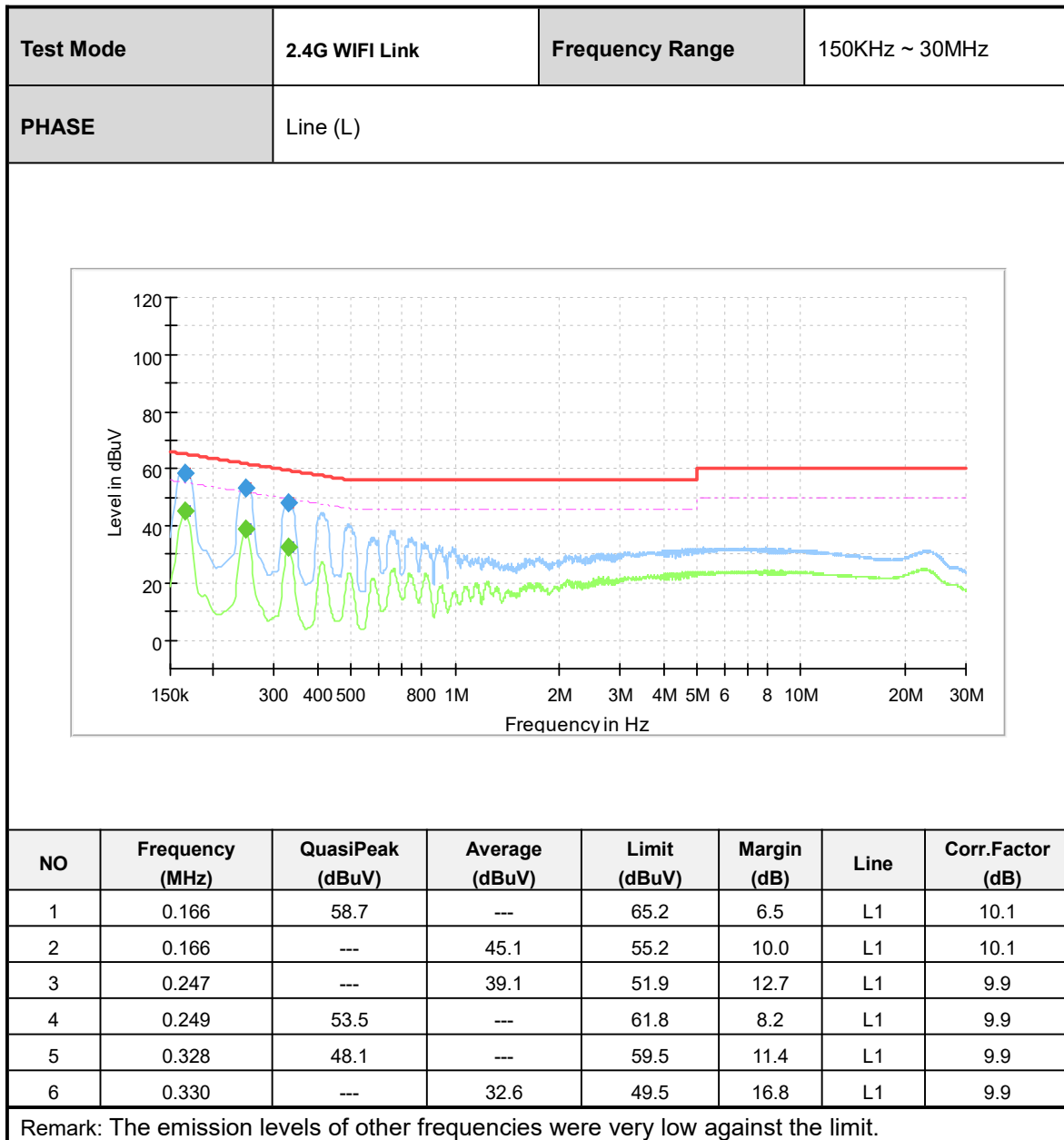
##### 3.1.2 Measurement procedure

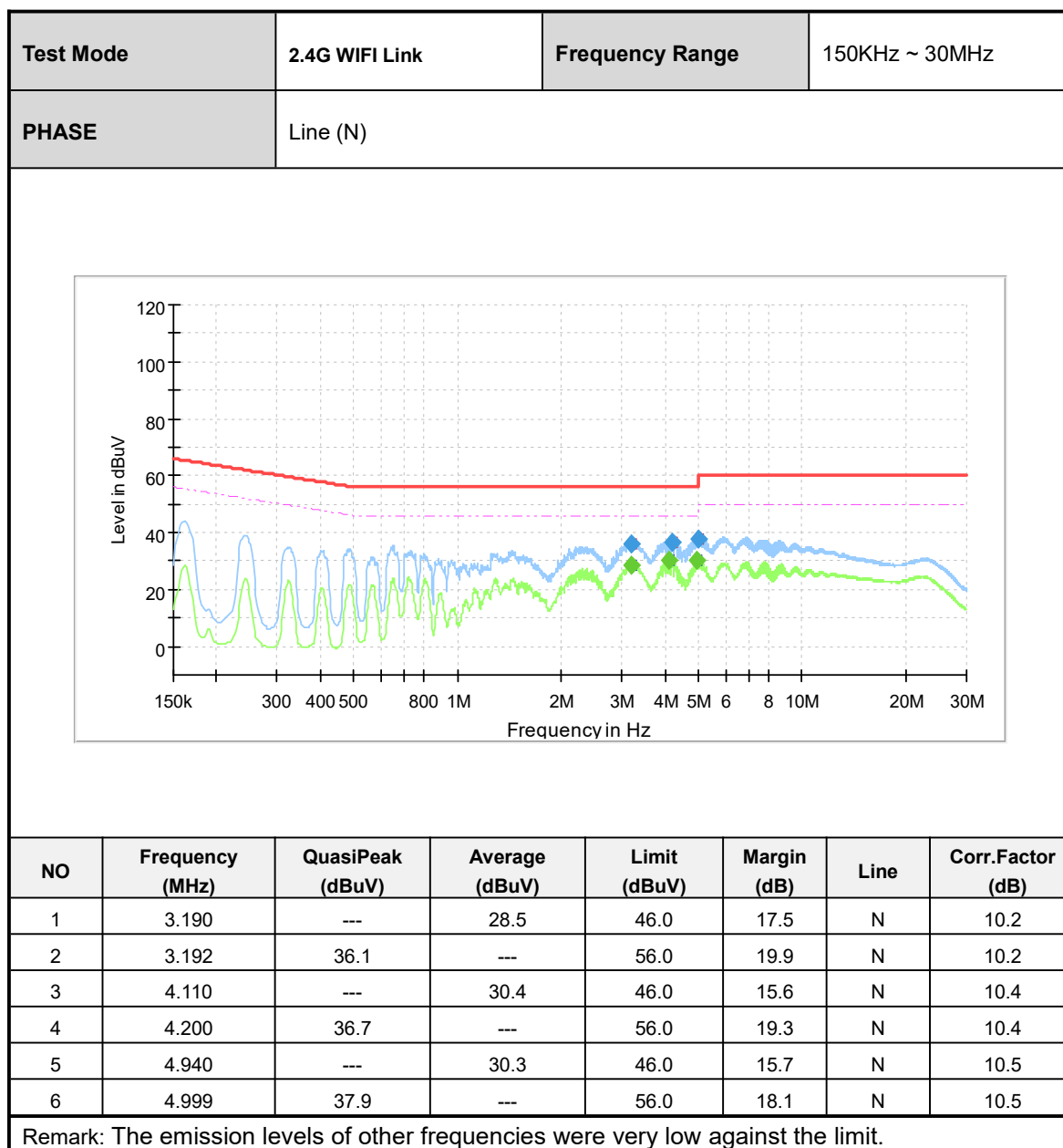
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be 1.5m above the ground,
- The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

##### 3.1.3 Test setup



### 3.1.4 Test results







## 3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

### 3.2.1 Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

| FREQUENCIES (MHz) | FIELD STRENGTH<br>(Microvolts/Meter) | MEASUREMENT DISTANCE<br>(Meters) |
|-------------------|--------------------------------------|----------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                          | 300                              |
| 0.490 ~ 1.705     | 24000/F(kHz)                         | 30                               |
| 1.705 ~ 30.0      | 30                                   | 30                               |
| 30 ~ 88           | 100                                  | 3                                |
| 88 ~ 216          | 150                                  | 3                                |
| 216 ~ 960         | 200                                  | 3                                |
| Above 960         | 500                                  | 3                                |

NOTE: 1. The lower limit shall apply at the transition frequencies.  
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).  
NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

### 3.2.2 Measurement procedure

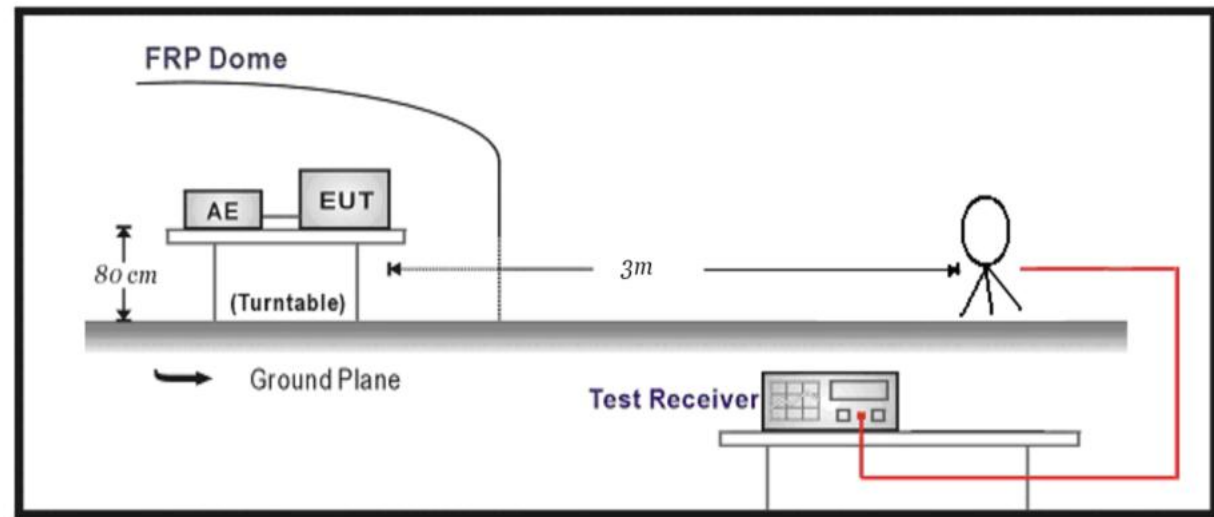
- The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable 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.
- For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

**NOTE:**

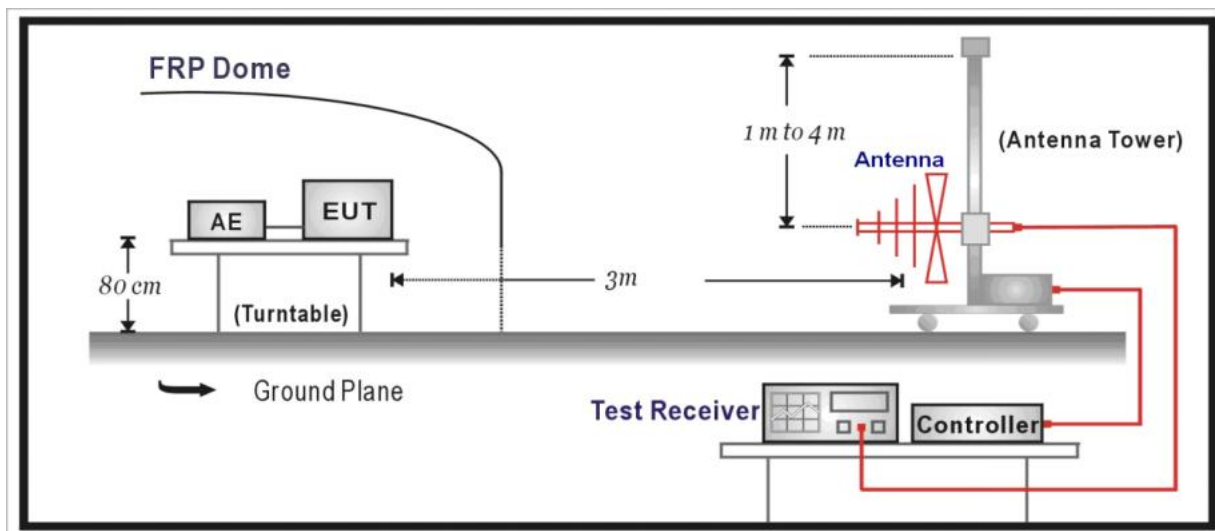
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

**3.2.3 Test setup**

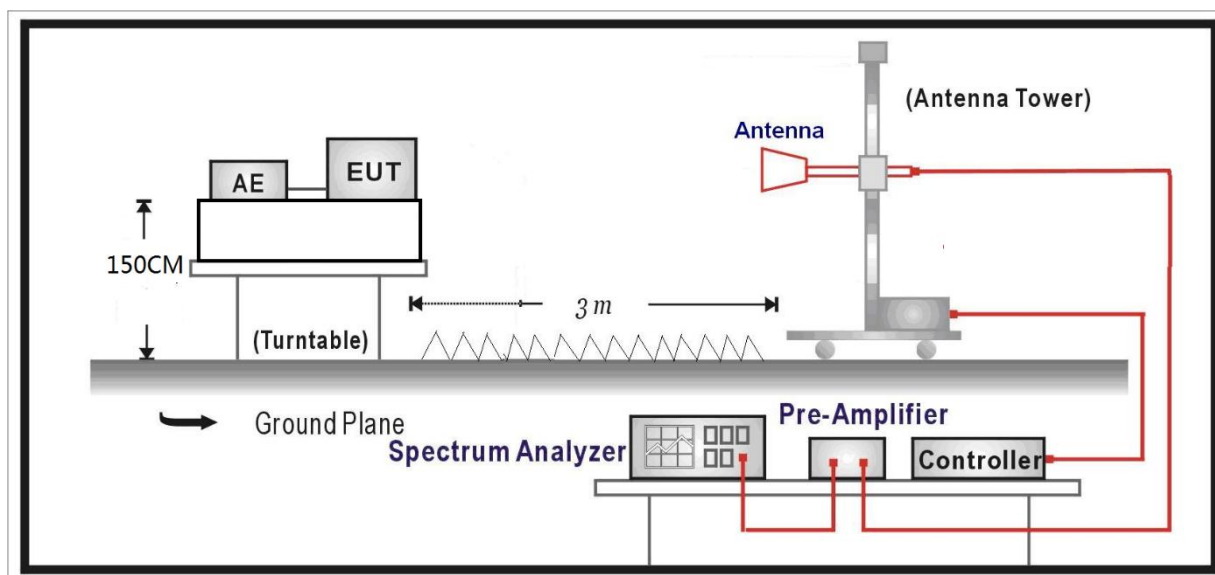
Below 30MHz Test Setup:



Below 1GHz Test Setup:

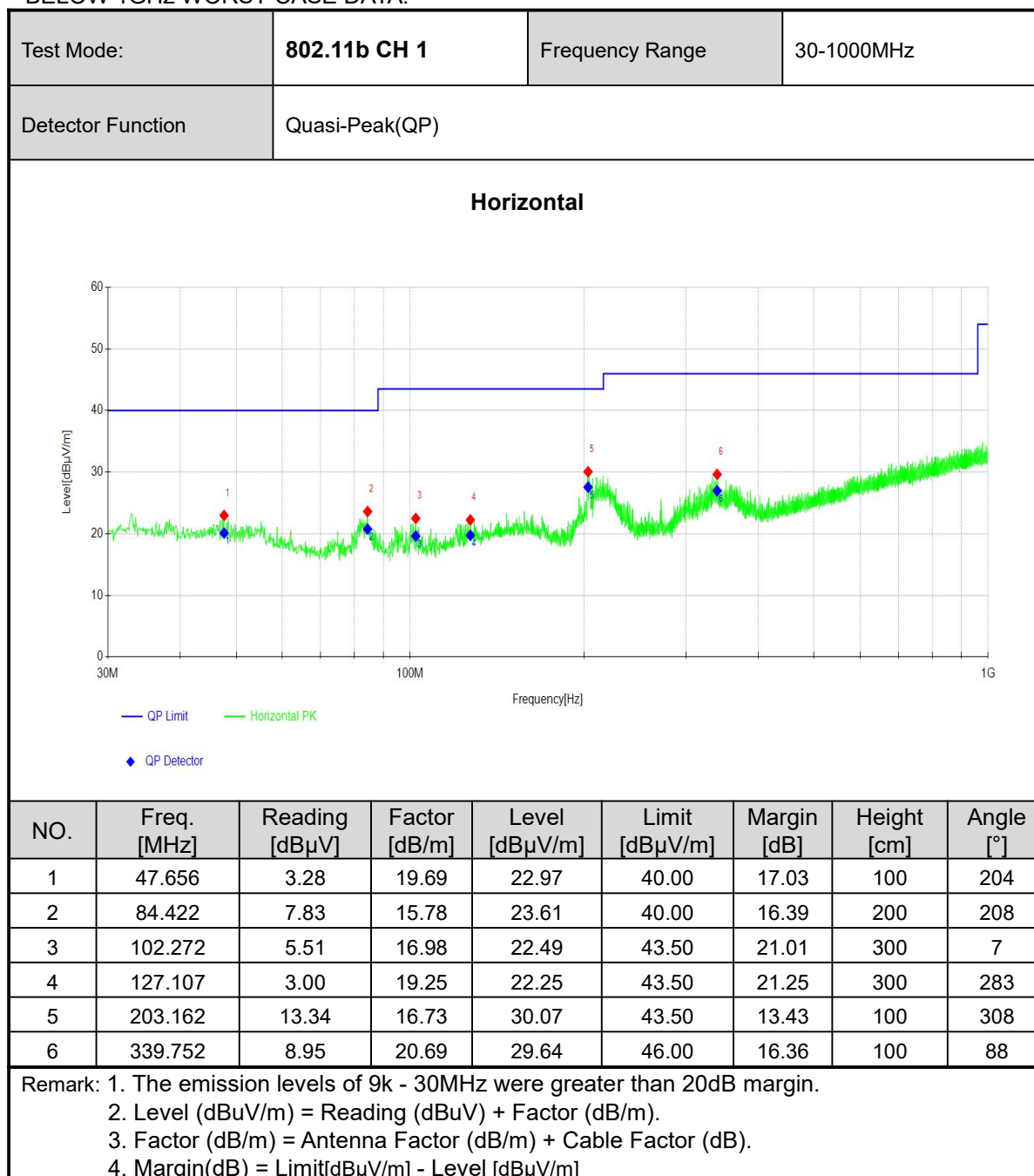


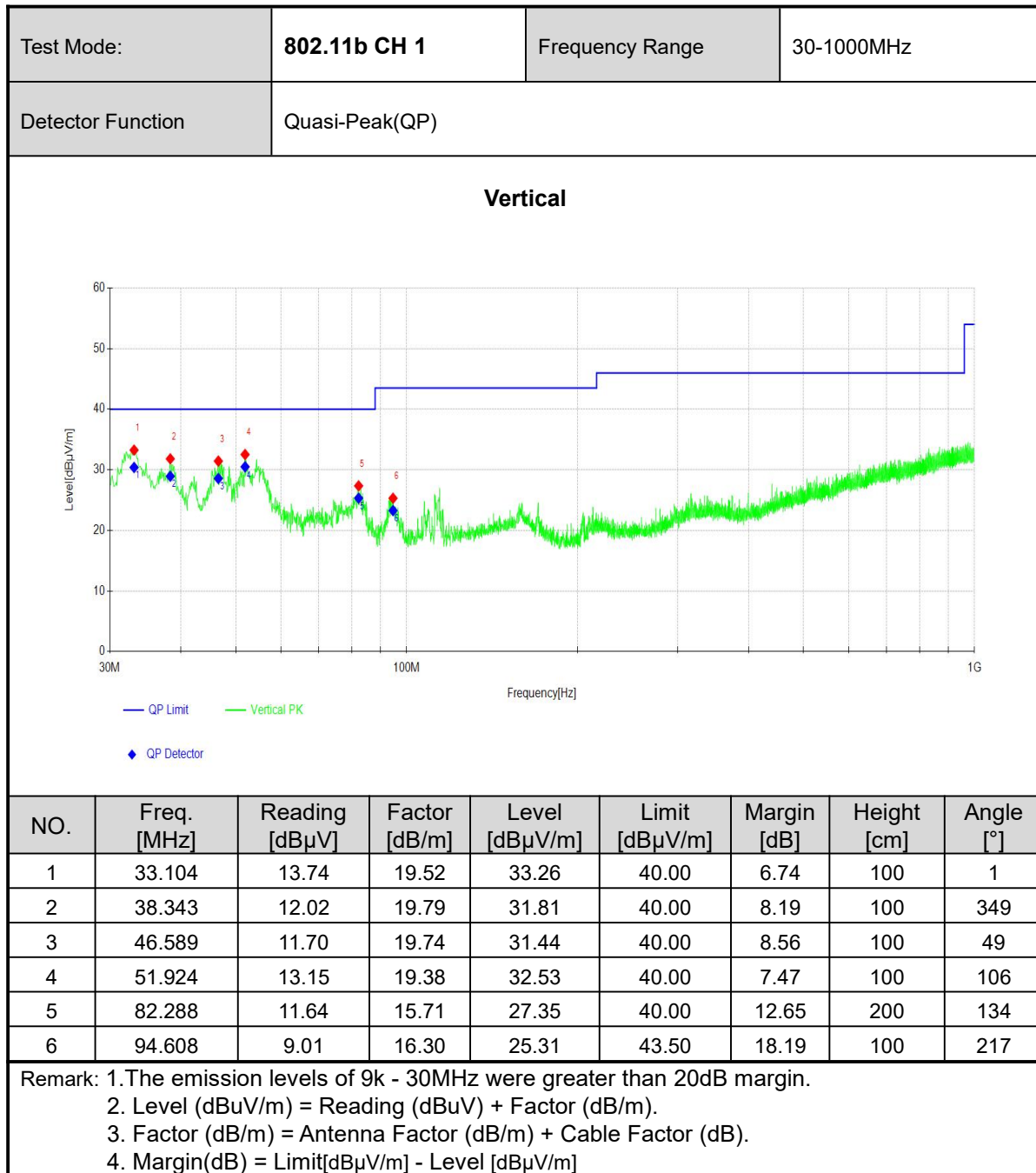
Above 1GHz Test Setup:



### 3.2.4 Test results

BELOW 1GHz WORST-CASE DATA:







ABOVE 1GHz DATA(Note: All the modes have been tested, found worst case at 802.11b, recorded the worst case results in this report.)

|                 |              |                   |         |
|-----------------|--------------|-------------------|---------|
| Channel         | 802.11b CH 1 | Frequency         | 2412MHz |
| Frequency Range | Above 1G     | Detector Function | PK/AV   |

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|-----|-------------|----------------|---------------|----------------|----------------|-------------|----------|------------|
| 1   | 2384.47     | 52.34          | -1.45         | 50.89          | 74.00          | 23.11       | PK       | Horizontal |
| 2   | 2387.32     | 45.10          | -1.41         | 43.69          | 54.00          | 10.31       | AV       | Horizontal |
| 3   | 2390.00     | 40.46          | -1.37         | 39.09          | 54.00          | 14.91       | AV       | Horizontal |
| 4   | 2390.00     | 49.47          | -1.37         | 48.10          | 74.00          | 25.90       | PK       | Horizontal |
| 5   | 2411.15     | 92.26          | -1.19         | 91.07          |                |             | AV       | Horizontal |
| 6   | 2411.72     | 94.56          | -1.19         | 93.37          |                |             | PK       | Horizontal |
| 7   | 4824.00     | 41.95          | 9.58          | 51.53          | 74.00          | 22.47       | PK       | Horizontal |
| 8   | 4824.00     | 34.99          | 9.58          | 44.57          | 54.00          | 9.43        | AV       | Horizontal |
| 9   | 7236.00     | 19.74          | 13.96         | 33.70          | 54.00          | 20.30       | AV       | Horizontal |
| 10  | 7236.00     | 28.37          | 13.96         | 42.33          | 74.00          | 31.67       | PK       | Horizontal |
| 11  | 9648.00     | 19.56          | 14.33         | 33.89          | 54.00          | 20.11       | AV       | Horizontal |
| 12  | 9648.00     | 27.52          | 14.33         | 41.85          | 74.00          | 32.15       | PK       | Horizontal |
| 13  | 2386.28     | 43.49          | -1.43         | 42.06          | 54.00          | 11.94       | AV       | Vertical   |
| 14  | 2386.90     | 52.14          | -1.42         | 50.72          | 74.00          | 23.28       | PK       | Vertical   |
| 15  | 2390.00     | 41.18          | -1.37         | 39.81          | 54.00          | 14.19       | AV       | Vertical   |
| 16  | 2390.00     | 49.62          | -1.37         | 48.25          | 74.00          | 25.75       | PK       | Vertical   |
| 17  | 2411.11     | 94.02          | -1.19         | 92.83          |                |             | PK       | Vertical   |
| 18  | 2411.17     | 91.90          | -1.19         | 90.71          |                |             | AV       | Vertical   |
| 19  | 4824.00     | 43.64          | 9.58          | 53.22          | 74.00          | 20.78       | PK       | Vertical   |
| 20  | 4824.00     | 34.54          | 9.58          | 44.12          | 54.00          | 9.88        | AV       | Vertical   |
| 21  | 7236.00     | 28.39          | 13.96         | 42.35          | 74.00          | 31.65       | PK       | Vertical   |
| 22  | 7236.00     | 19.44          | 13.96         | 33.40          | 54.00          | 20.60       | AV       | Vertical   |
| 23  | 9648.00     | 27.41          | 14.33         | 41.74          | 74.00          | 32.26       | PK       | Vertical   |
| 24  | 9648.00     | 19.26          | 14.33         | 33.59          | 54.00          | 20.41       | AV       | Vertical   |

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.  
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).  
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).  
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

|                        |                     |                          |         |
|------------------------|---------------------|--------------------------|---------|
| <b>Channel</b>         | <b>802.11b CH 6</b> | <b>Frequency</b>         | 2437MHz |
| <b>Frequency Range</b> | Above 1G            | <b>Detector Function</b> | PK/AV   |

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB/m] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Detector | Polarity   |
|-----|----------------|-------------------|------------------|-------------------|-------------------|----------------|----------|------------|
| 1   | 4874.00        | 42.30             | 9.66             | 51.96             | 74.00             | 22.04          | PK       | Horizontal |
| 2   | 4874.00        | 34.58             | 9.66             | 44.24             | 54.00             | 9.76           | AV       | Horizontal |
| 3   | 7311.00        | 29.12             | 12.65            | 41.77             | 74.00             | 32.23          | PK       | Horizontal |
| 4   | 7311.00        | 20.31             | 12.65            | 32.96             | 54.00             | 21.04          | AV       | Horizontal |
| 5   | 9748.00        | 26.91             | 14.73            | 41.64             | 74.00             | 32.36          | PK       | Horizontal |
| 6   | 9748.00        | 18.49             | 14.73            | 33.22             | 54.00             | 20.78          | AV       | Horizontal |
| 7   | 4874.00        | 34.06             | 9.66             | 43.72             | 54.00             | 10.28          | AV       | Vertical   |
| 8   | 4874.00        | 42.10             | 9.66             | 51.76             | 74.00             | 22.24          | PK       | Vertical   |
| 9   | 7311.00        | 28.45             | 12.65            | 41.10             | 74.00             | 32.90          | PK       | Vertical   |
| 10  | 7311.00        | 19.93             | 12.65            | 32.58             | 54.00             | 21.42          | AV       | Vertical   |
| 11  | 9748.00        | 18.38             | 14.73            | 33.11             | 54.00             | 20.89          | AV       | Vertical   |
| 12  | 9748.00        | 26.88             | 14.73            | 41.61             | 74.00             | 32.39          | PK       | Vertical   |

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.  
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).  
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).  
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



|                 |               |                   |         |
|-----------------|---------------|-------------------|---------|
| Channel         | 802.11b CH 11 | Frequency         | 2462MHz |
| Frequency Range | Above 1G      | Detector Function | PK/AV   |

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|-----|-------------|----------------|---------------|----------------|----------------|-------------|----------|------------|
| 1   | 2461.08     | 86.02          | -1.14         | 84.88          |                |             | AV       | Horizontal |
| 2   | 2461.93     | 88.61          | -1.11         | 87.50          |                |             | PK       | Horizontal |
| 3   | 2483.50     | 42.52          | -1.15         | 41.37          | 54.00          | 12.63       | AV       | Horizontal |
| 4   | 2483.50     | 48.13          | -1.15         | 46.98          | 74.00          | 27.02       | PK       | Horizontal |
| 5   | 2484.04     | 50.99          | -1.12         | 49.87          | 74.00          | 24.13       | PK       | Horizontal |
| 6   | 2487.93     | 45.04          | -0.94         | 44.10          | 54.00          | 9.90        | AV       | Horizontal |
| 7   | 4924.00     | 42.20          | 10.19         | 52.39          | 74.00          | 21.61       | PK       | Horizontal |
| 8   | 4924.00     | 34.67          | 10.19         | 44.86          | 54.00          | 9.14        | AV       | Horizontal |
| 9   | 7386.00     | 20.45          | 11.57         | 32.02          | 54.00          | 21.98       | AV       | Horizontal |
| 10  | 7386.00     | 27.93          | 11.57         | 39.50          | 74.00          | 34.50       | PK       | Horizontal |
| 11  | 9848.00     | 26.12          | 14.74         | 40.86          | 74.00          | 33.14       | PK       | Horizontal |
| 12  | 9848.00     | 18.26          | 14.74         | 33.00          | 54.00          | 21.00       | AV       | Horizontal |
| 13  | 2462.19     | 93.49          | -1.10         | 92.39          |                |             | PK       | Vertical   |
| 14  | 2462.94     | 90.98          | -1.08         | 89.90          |                |             | AV       | Vertical   |
| 15  | 2483.50     | 52.92          | -1.15         | 51.77          | 74.00          | 22.23       | PK       | Vertical   |
| 16  | 2483.50     | 47.46          | -1.15         | 46.31          | 54.00          | 7.69        | AV       | Vertical   |
| 17  | 2487.64     | 50.93          | -0.95         | 49.98          | 54.00          | 4.02        | AV       | Vertical   |
| 18  | 2487.92     | 54.71          | -0.94         | 53.77          | 74.00          | 20.23       | PK       | Vertical   |
| 19  | 4924.00     | 45.45          | 10.19         | 55.64          | 74.00          | 18.36       | PK       | Vertical   |
| 20  | 4924.00     | 39.72          | 10.19         | 49.91          | 54.00          | 4.09        | AV       | Vertical   |
| 21  | 7386.00     | 19.73          | 11.57         | 31.30          | 54.00          | 22.70       | AV       | Vertical   |
| 22  | 7386.00     | 27.76          | 11.57         | 39.33          | 74.00          | 34.67       | PK       | Vertical   |
| 23  | 9848.00     | 26.73          | 14.74         | 41.47          | 74.00          | 32.53       | PK       | Vertical   |
| 24  | 9848.00     | 18.55          | 14.74         | 33.29          | 54.00          | 20.71       | AV       | Vertical   |

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.  
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).  
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).  
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

### 3.3 6DB BANDWIDTH MEASUREMENT

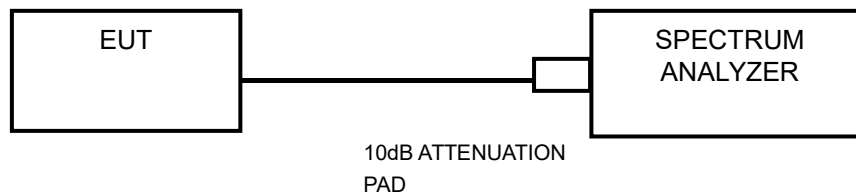
#### 3.3.1 Limits

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 3.3.2 Measurement procedure

- Set resolution bandwidth (RBW) = 100KHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 3.3.3 Test setup



### 3.4 CONDUCTED OUTPUT POWER

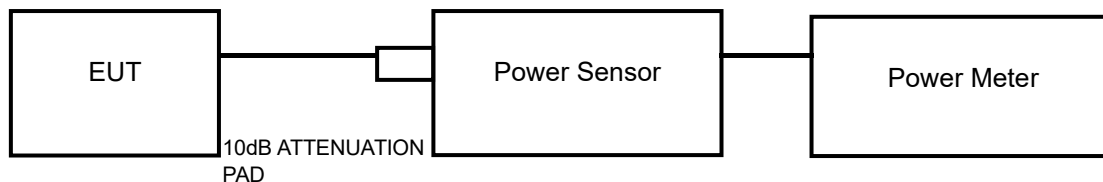
#### 3.4.1 Limits

For DTS employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W,

#### 3.4.2 Measurement procedure

- A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.
- An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the power level.

#### 3.4.3 Test setup



### 3.5 POWER SPECTRAL DENSITY MEASUREMENT

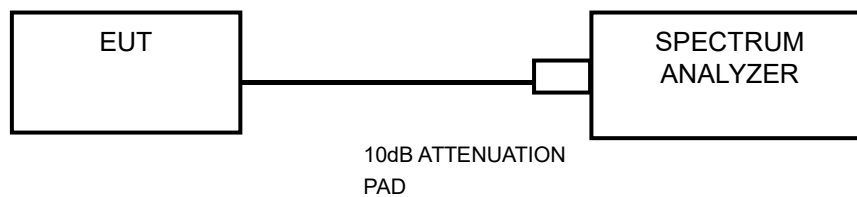
#### 3.5.1 Limits

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

#### 3.5.2 Measurement procedure

- Set instrument center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set RBW to: 3KHz
- Set VBW  $\geq 3 \times$  RBW.
- Detector = peak
- Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
- Sweep time = auto couple.
- Use the peak marker function to determine the maximum amplitude level.

#### 3.5.3 Test setup



### 3.6 OUT OF BAND EMISSION MEASUREMENT

#### 3.6.1 Limits

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

#### 3.6.2 Measurement procedure

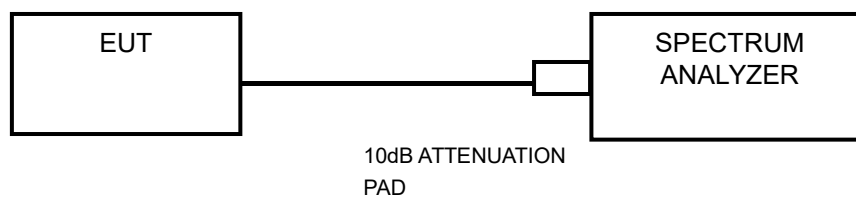
##### Measurement Procedure -Reference Level

- Set the RBW = 100 kHz.
- Set the VBW  $\geq$  300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHzband segment within the fundamental EBW.

##### Measurement Procedure –Unwanted Emission Level

- Set RBW = 100 kHz.
- Set VBW  $\geq$  300 kHz.
- Set span to encompass the spectrum to be examined
- Detector = peak.
- Trace Mode = max hold.
- Sweep = auto couple.

#### 3.6.3 Test setup



### 3.7 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.7.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.  
below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.7.2 TEST SETUP





## 3.8 ANTENNA REQUIREMENT

### 3.8.1 LIMITS OFFREQUENCY STABILITY

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b) , if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.8.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device

### 3.8.3 ANTENNA GAIN

The maximum peak gain of the transmit antenna is 2.64 dBi.

#### **4 PHOTOGRAPHS OF TEST SETUP**

Please refer to the attached file (Test Setup Photo).

,



## **5 PHOTOGRAPHS OF THE EUT**

Please refer to the attached file (External Photos report and Internal Photos).

**----- End of the Report -----**



## Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

*\*\*The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.\*\**

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