



# FCC RADIO TEST REPORT

FCC ID : 2BEY3FCUN69T  
Equipment : 5G Sub-6 GHz M.2 Module  
Brand Name : NETPRISMA INC.  
Model Name : FCUN69-WWD  
Applicant : NETPRISMA INC.  
1301 6TH AVE, SEATTLE, WA, 98101-2304,  
UNITED STATES  
Manufacturer : Lenovo PC HK Limited  
23/F, Lincoln House, Taikoo Place 979 King's  
Road, Quarry Bay, Hong Kong, P.R. China  
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

Equipment: NETPRISMA INC. FCUN69-WWD tested inside of Lenovo Notebook Computer.

The product was received on Aug. 21, 2024 and testing was performed from Aug. 30, 2024 to Oct. 05, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**



## Table of Contents

|                                                            |           |
|------------------------------------------------------------|-----------|
| <b>History of this test report.....</b>                    | <b>3</b>  |
| <b>Summary of Test Result.....</b>                         | <b>4</b>  |
| <b>1 General Description .....</b>                         | <b>6</b>  |
| 1.1 Product Feature of Equipment Under Test .....          | 6         |
| 1.2 Product Specification of Equipment Under Test .....    | 7         |
| 1.3 Modification of EUT .....                              | 7         |
| 1.4 Testing Location .....                                 | 8         |
| 1.5 Applicable Standards .....                             | 8         |
| <b>2 Test Configuration of Equipment Under Test .....</b>  | <b>9</b>  |
| 2.1 Test Mode.....                                         | 9         |
| 2.2 Connection Diagram of Test System .....                | 9         |
| 2.3 Support Unit used in test configuration .....          | 10        |
| 2.4 Frequency List of Low/Middle/High Channels .....       | 10        |
| <b>3 Conducted Test Result .....</b>                       | <b>11</b> |
| 3.1 Measuring Instruments.....                             | 11        |
| 3.2 Conducted Output Power and ERP/EIRP .....              | 12        |
| <b>4 Radiated Test Items .....</b>                         | <b>13</b> |
| 4.1 Measuring Instruments.....                             | 13        |
| 4.2 Test Setup .....                                       | 13        |
| 4.3 Test Result of Radiated Test.....                      | 14        |
| 4.4 Field Strength of Spurious Radiation Measurement ..... | 15        |
| <b>5 List of Measuring Equipment.....</b>                  | <b>16</b> |
| <b>6 Measurement Uncertainty .....</b>                     | <b>17</b> |
| <b>Appendix A. Test Results of Conducted Test</b>          |           |
| <b>Appendix B. Test Results of Radiated Test</b>           |           |
| <b>Appendix C. Test Setup Photographs</b>                  |           |



## History of this test report

| Report No. | Version | Description             | Issue Date    |
|------------|---------|-------------------------|---------------|
| FG482101A  | 01      | Initial issue of report | Nov. 12, 2024 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

## Summary of Test Result

| Report Clause                                                                                                                                                                                                                                                                                                            | Ref Std. Clause                                     | Test Items                                                                          | Result (PASS/FAIL) | Remark                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|-----------------------------------------|
| 3.2                                                                                                                                                                                                                                                                                                                      | §2.1046                                             | Conducted Output Power                                                              | Pass               | -                                       |
|                                                                                                                                                                                                                                                                                                                          | §22.913 (a)(5)                                      | Effective Radiated Power (WCDMA Band V)                                             |                    |                                         |
|                                                                                                                                                                                                                                                                                                                          | §24.232 (c)                                         | Equivalent Isotropic Radiated Power (WCDMA Band II)                                 |                    |                                         |
|                                                                                                                                                                                                                                                                                                                          | §27.50 (d)(4)                                       | Equivalent Isotropic Radiated Power (WCDMA Band IV)                                 |                    |                                         |
| -                                                                                                                                                                                                                                                                                                                        | §24.232 (d)                                         | Peak-to-Average Ratio                                                               | Pass               | See Note                                |
| -                                                                                                                                                                                                                                                                                                                        | §2.1049<br>§22.917 (b)<br>§24.238 (b)<br>§27.53 (g) | Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)                   | Pass               | See Note                                |
| -                                                                                                                                                                                                                                                                                                                        | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (g) | Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)                | Pass               | See Note                                |
| -                                                                                                                                                                                                                                                                                                                        | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (g) | Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)                   | Pass               | See Note                                |
| -                                                                                                                                                                                                                                                                                                                        | §2.1055<br>§22.355<br>§24.235<br>§27.54             | Frequency Stability<br>Temperature & Voltage                                        | Pass               | See Note                                |
| 4.4                                                                                                                                                                                                                                                                                                                      | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (h) | Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV) | Pass               | 31.60 dB under the limit at 7520.00 MHz |
| <b>Note:</b><br>1. For host device, Field Strength of Spurious Radiation, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.<br>2. For host device, the Conducted Output Power is no difference after compared to module (Model: FCUN69-WWD) |                                                     |                                                                                     |                    |                                         |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Sheng Kuo**

**Report Producer: Lucy Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                           |
|---------------------------------|---------------------------|
| Equipment                       | 5G Sub-6 GHz M.2 Module   |
| Brand Name                      | NETPRISMA INC.            |
| Model Name                      | FCUN69-WWD                |
| FCC ID                          | 2BEY3FCUN69T              |
| Sample 1                        | EUT with Host 1           |
| Sample 2                        | EUT with Host 2           |
| EUT supports Radios application | WCDMA/HSPA/LTE/5G NR/GNSS |
| EUT Stage                       | Production Unit           |

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: NETPRISMA INC. FCUN69-WWD tested inside of Lenovo Notebook Computer.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: TP00150B) during test, and the host information was recorded in the following table.

| Host Information |                            |
|------------------|----------------------------|
| Host 1           | Host with Amphenol Antenna |
| Host 2           | Host with AWAN Antenna     |

| WWAN Antenna Information for Host |              |                 |                 |                                                                  |
|-----------------------------------|--------------|-----------------|-----------------|------------------------------------------------------------------|
| Main Antenna                      | Manufacturer | Amphenol        | Peak gain (dBi) | WCDMA Band II: 0.70<br>WCDMA Band IV: 1.26<br>WCDMA Band V: 0.31 |
|                                   | Part number  | TKF436-16-000-R | Type            | PIFA                                                             |
|                                   | Manufacturer | AWAN            | Peak gain (dBi) | WCDMA Band II: 0.76<br>WCDMA Band IV: 1.18<br>WCDMA Band V: 0.38 |
|                                   | Part number  | AYL6Y-200006    | Type            | PIFA                                                             |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Product Specification of Equipment Under Test

| Product Specification is subject to this standard |                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                               | <b>WCDMA:</b><br>Band V: 826.4 MHz ~ 846.6 MHz<br>Band II: 1852.4 MHz ~ 1907.6 MHz<br>Band IV: 1712.4 MHz ~ 1752.6 MHz |
| <b>Rx Frequency</b>                               | <b>WCDMA:</b><br>Band V: 871.4 MHz ~ 891.6 MHz<br>Band II: 1932.4 MHz ~ 1987.6 MHz<br>Band IV: 2112.4 MHz ~ 2152.6 MHz |
| <b>Maximum Output Power to Antenna</b>            | <b>WCDMA:</b><br><b>&lt;Main Antenna&gt;</b><br>Band V: 23.96 dBm<br>Band II: 23.77 dBm<br>Band IV: 23.80 dBm          |
| <b>Type of Modulation</b>                         | WCDMA: BPSK (Uplink)<br>HSDPA: 64QAM (Downlink)<br>HSUPA: QPSK (Uplink)                                                |

## 1.3 Modification of EUT

No modifications made to the EUT during the testing.

## 1.4 Testing Location

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| <b>Test Site</b>             | Sporton International Inc. EMC & Wireless Communications Laboratory |
| <b>Test Site Location</b>    | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333               |
| <b>Test Site No.</b>         | <b>Sporton Site No.</b>                                             |
|                              | TH03-HY                                                             |
| <b>Test Engineer</b>         | Diego Huang                                                         |
| <b>Temperature (°C)</b>      | 22.4~23.8                                                           |
| <b>Relative Humidity (%)</b> | 50.2~55.5                                                           |

|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>             | Sporton International Inc. Wensan Laboratory.                                                           |
| <b>Test Site Location</b>    | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010                            |
| <b>Test Site No.</b>         | <b>Sporton Site No.</b>                                                                                 |
|                              | 03CH16-HY (TAF Code: 3786)                                                                              |
| <b>Test Engineer</b>         | Bill Chang, Jerry Lan, Gary Guo and Steven Wu                                                           |
| <b>Temperature (°C)</b>      | 19.1~22.3                                                                                               |
| <b>Relative Humidity (%)</b> | 62.5~68.3                                                                                               |
| <b>Remark</b>                | The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory. |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

## 1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated emissions were investigated as following frequency range:

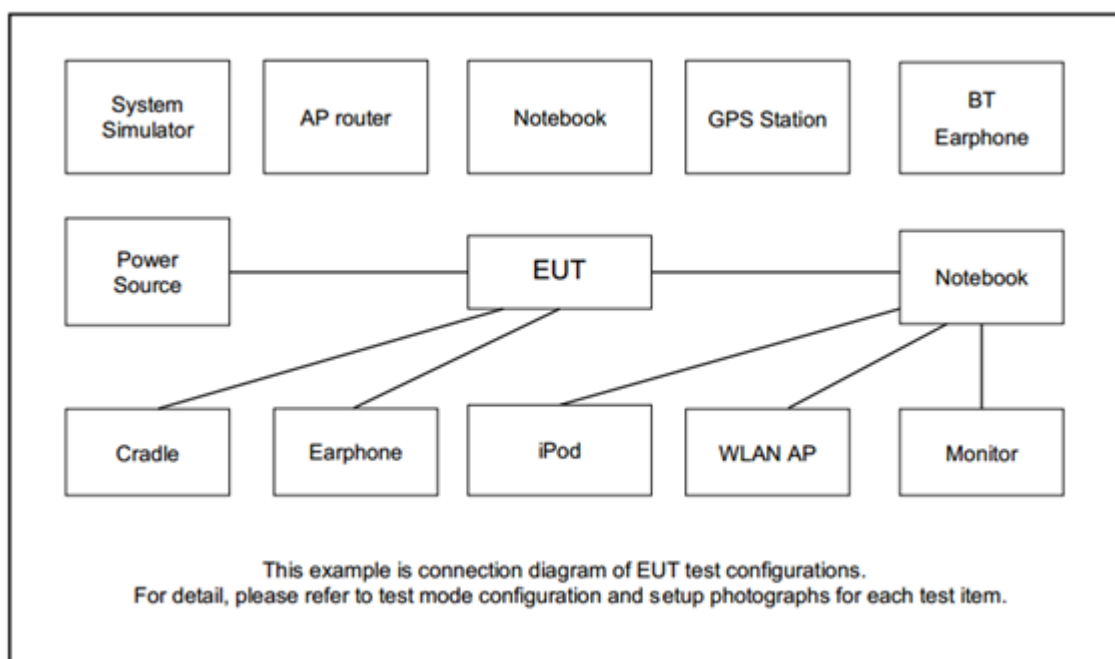
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

| Test Modes    |                     |                     |
|---------------|---------------------|---------------------|
| Band          | Radiated TCs        | Conducted TCs       |
| WCDMA Band V  | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band II | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band IV | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |

### 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration

| Item | Equipment        | Brand Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8821C   | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | Earphone         | UGREEN     | N/A       | N/A    | N/A        | Shielded, 1.5m    |

## 2.4 Frequency List of Low/Middle/High Channels

| Frequency List   |                        |        |        |         |
|------------------|------------------------|--------|--------|---------|
| Band             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| WCDMA<br>Band V  | Channel                | 4132   | 4182   | 4233    |
|                  | Frequency              | 826.4  | 836.4  | 846.6   |
| WCDMA<br>Band II | Channel                | 9262   | 9400   | 9538    |
|                  | Frequency              | 1852.4 | 1880.0 | 1907.6  |
| WCDMA<br>Band IV | Channel                | 1312   | 1413   | 1513    |
|                  | Frequency              | 1712.4 | 1732.6 | 1752.6  |

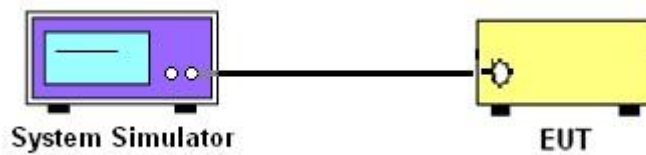
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

## 3.2 Conducted Output Power and ERP/EIRP

### 3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.2.2 Test Procedures

1. The transmitter output port is connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

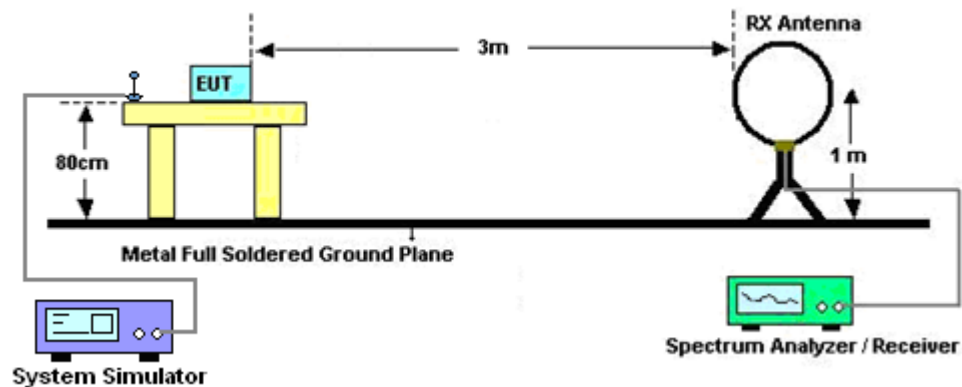
## 4 Radiated Test Items

### 4.1 Measuring Instruments

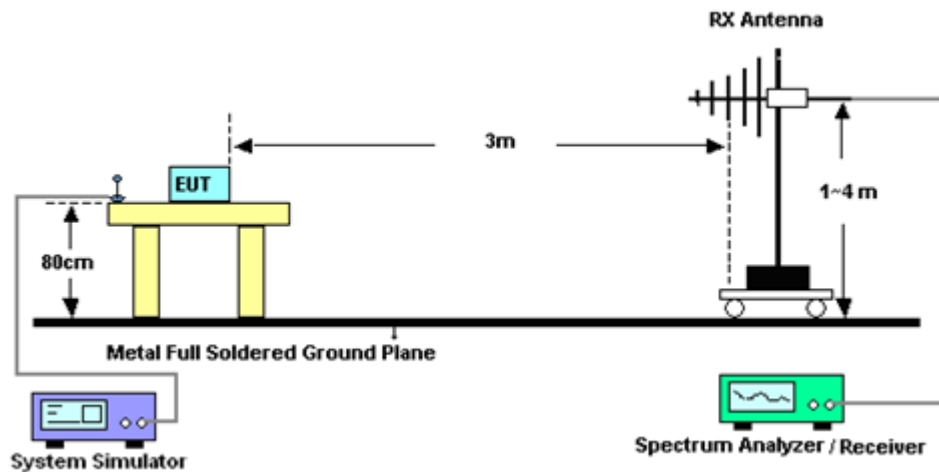
Please refer to the measuring equipment list in this test report.

### 4.2 Test Setup

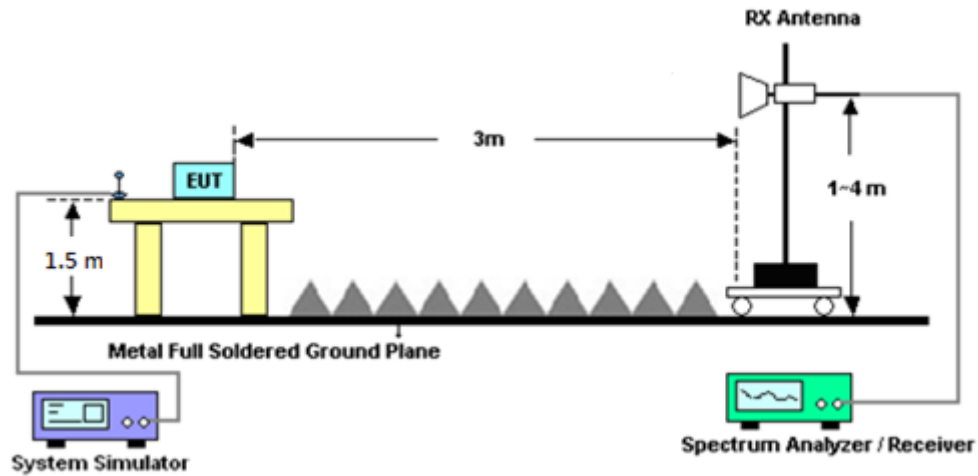
For radiated test below 30MHz



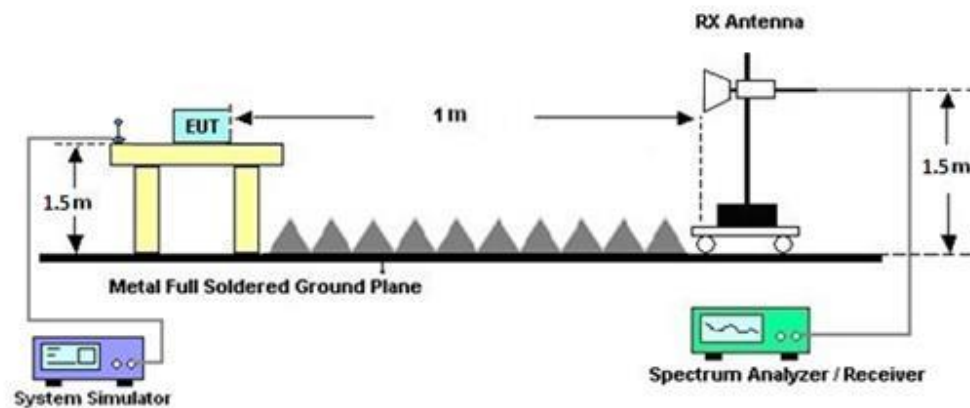
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



## 4.3 Test Result of Radiated Test

Please refer to Appendix B.

### Note:

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

## 4.4 Field Strength of Spurious Radiation Measurement

### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.



## 5 List of Measuring Equipment

| Instrument                   | Brand Name                     | Model No.                                                    | Serial No.                               | Characteristics                     | Calibration Date | Test Date                       | Due Date      | Remark                   |
|------------------------------|--------------------------------|--------------------------------------------------------------|------------------------------------------|-------------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna                 | Rohde & Schwarz                | HFH2-Z2                                                      | 100315                                   | 9 kHz~30 MHz                        | Feb. 23, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Feb. 22, 2025 | Radiation<br>(03CH16-HY) |
| SHF-EHF Horn Antenna         | SCHWARZBECK                    | BBHA9170                                                     | 1223                                     | 18GHz~40GHz                         | Jun. 24, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Jun. 23, 2025 | Radiation<br>(03CH16-HY) |
| EMI Test Receiver            | Keysight                       | N9038A(MXE)                                                  | MY57290111                               | 3Hz~26.5GHz                         | Dec. 04, 2023    | Sep. 09, 2024~<br>Oct. 05, 2024 | Dec. 03, 2024 | Radiation<br>(03CH16-HY) |
| Bilog Antenna                | TESEQ                          | CBL 6111D &<br>00802N1D01N-06                                | 41912 & 05                               | 30MHz to 1GHz                       | Feb. 04, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Feb. 03, 2025 | Radiation<br>(03CH16-HY) |
| Horn Antenna                 | SCHWARZBECK                    | BBHA 9120 D                                                  | 9120D-1522                               | 1G~18GHz                            | Mar. 28, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Mar. 27, 2025 | Radiation<br>(03CH16-HY) |
| Amplifier                    | SONOMA                         | 310N                                                         | 371607                                   | 9kHz~1GHz                           | Jul. 02, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Jul. 01, 2025 | Radiation<br>(03CH16-HY) |
| Preamplifier                 | Keysight                       | 83017A                                                       | MY53270264                               | 1GHz~26.5GHz                        | Dec. 07, 2023    | Sep. 09, 2024~<br>Oct. 05, 2024 | Dec. 06, 2024 | Radiation<br>(03CH16-HY) |
| Preamplifier                 | EMEC                           | EM1G18G                                                      | 060812                                   | 1GHz~18GHz                          | Dec. 25, 2023    | Sep. 09, 2024~<br>Oct. 05, 2024 | Dec. 24, 2024 | Radiation<br>(03CH16-HY) |
| Preamplifier                 | EMEC                           | EM18G40G                                                     | 060801                                   | 18GHz~40GHz                         | May 27, 2024     | Sep. 09, 2024~<br>Oct. 05, 2024 | May 26, 2025  | Radiation<br>(03CH16-HY) |
| Filter                       | Wainwright                     | WLK4-1000-15<br>30-8000-40SS                                 | SN17                                     | 1.53GHz Low Pass Filter             | Jan. 15, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Jan. 14, 2025 | Radiation<br>(03CH16-HY) |
| Filter                       | Wainwright                     | WHKX12-2700<br>-3000-18000-6<br>0ST                          | SN3                                      | 3GHz High Pass Filter               | Jun. 28, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Jun. 27, 2025 | Radiation<br>(03CH16-HY) |
| Filter                       | Wainwright                     | WHKX8-5872.<br>5-6750-18000-<br>40ST                         | SN27                                     | 6.75GHz High Pass Filter            | Nov. 13, 2023    | Sep. 09, 2024~<br>Oct. 05, 2024 | Nov. 12, 2024 | Radiation<br>(03CH16-HY) |
| RF Cable                     | HUBER + SUHNER                 | SUCOFLEX 102                                                 | 803951/2                                 | 9K~30M                              | Mar. 06, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Mar. 05, 2025 | Radiation<br>(03CH16-HY) |
| RF Cable                     | HUBER + SUHNER                 | SUCOFLEX 102/SUCOFLEX 104                                    | EC-A5-300-5<br>757,805935/<br>4,802434/4 | 30MHz~18GHz                         | Aug. 07, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Aug. 06, 2025 | Radiation<br>(03CH16-HY) |
| RF Cable                     | HUBER + SUHNER                 | SUCOFLEX 102                                                 | 804011/2,804<br>012/2                    | 18-40GHz                            | Jan. 02, 2024    | Sep. 09, 2024~<br>Oct. 05, 2024 | Jan. 01, 2025 | Radiation<br>(03CH16-HY) |
| Software                     | Audix                          | E3 230621 V9                                                 | RK-002393                                | N/A                                 | N/A              | Sep. 09, 2024~<br>Oct. 05, 2024 | N/A           | Radiation<br>(03CH16-HY) |
| Controller                   | ChainTek                       | 3000-1                                                       | N/A                                      | Control Turn table & Ant Mast       | N/A              | Sep. 09, 2024~<br>Oct. 05, 2024 | N/A           | Radiation<br>(03CH16-HY) |
| Antenna Mast                 | ChainTek                       | MBS-520-1                                                    | N/A                                      | 1m~4m                               | N/A              | Sep. 09, 2024~<br>Oct. 05, 2024 | N/A           | Radiation<br>(03CH16-HY) |
| Turn Table                   | ChainTek                       | T-200-S-1                                                    | N/A                                      | 0~360 Degree                        | N/A              | Sep. 09, 2024~<br>Oct. 05, 2024 | N/A           | Radiation<br>(03CH16-HY) |
| Radio Communication Analyzer | Anritsu                        | MT8821C                                                      | 6262025353                               | LTE FDD/TDD<br>LTE-2CC<br>DLCA/ULCA | Oct. 03, 2023    | Aug. 30, 2024~<br>Sep. 18, 2024 | Oct. 02, 2024 | Conducted<br>(TH03-HY)   |
| Coupler+10dB + Rf cable      | Warison + WoKen + E-Instrument | 20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+S FL405_1.5M | #A+#1+#1+#7                              | 1-18GHz                             | Jan. 02, 2024    | Aug. 30, 2024~<br>Sep. 18, 2024 | Jan. 01, 2025 | Conducted<br>(TH03-HY)   |
| Software                     | Sporton                        | LTE Conducted Test Tools                                     | N/A                                      | Conducted Test Item                 | N/A              | Aug. 30, 2024~<br>Sep. 18, 2024 | N/A           | Conducted<br>(TH03-HY)   |
| Hygrometer                   | TECEPEL                        | DTM-303B                                                     | TP210073                                 | -10 ~ 50°C / 20 ~ 95%RH             | Jun. 05, 2024    | Aug. 30, 2024~<br>Sep. 18, 2024 | Jun. 04, 2025 | Conducted<br>(TH03-HY)   |

## 6 Measurement Uncertainty

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 3.299 dB |
|----------------------------------------------------------------------------|----------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 2.070 dB |
|----------------------------------------------------------------------------|----------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 2.076 dB |
|----------------------------------------------------------------------------|----------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power) & ERP / EIRP

#### <Main Antenna>

| WCDMA Band V Maximum Average Power [dBm] (GT - LC = 0.38 dB) |          |       |       |           |         |
|--------------------------------------------------------------|----------|-------|-------|-----------|---------|
| Channel                                                      | 4132     | 4182  | 4233  | ERP (dBm) | ERP (W) |
| Frequency                                                    | 826.4    | 836.4 | 846.6 |           |         |
| RMC 12.2K                                                    | 23.88    | 23.96 | 23.93 | 22.19     | 0.1656  |
| HSDPA Subtest-1                                              | 22.92    | 22.97 | 22.93 |           |         |
| HSDPA Subtest-2                                              | 22.84    | 22.94 | 22.93 |           |         |
| HSDPA Subtest-3                                              | 22.40    | 22.44 | 22.42 |           |         |
| HSDPA Subtest-4                                              | 22.37    | 22.44 | 22.42 |           |         |
| HSUPA Subtest-1                                              | 22.86    | 22.95 | 22.97 |           |         |
| HSUPA Subtest-2                                              | 20.88    | 20.98 | 20.90 |           |         |
| HSUPA Subtest-3                                              | 21.88    | 21.97 | 21.92 |           |         |
| HSUPA Subtest-4                                              | 20.88    | 20.93 | 20.90 |           |         |
| HSUPA Subtest-5                                              | 22.90    | 23.00 | 22.90 |           |         |
| Limit                                                        | ERP < 7W |       |       | Result    | Pass    |

| WCDMA Band II Maximum Average Power [dBm] (GT - LC = 0.76 dB) |           |       |        |            |          |
|---------------------------------------------------------------|-----------|-------|--------|------------|----------|
| Channel                                                       | 9262      | 9400  | 9538   | EIRP (dBm) | EIRP (W) |
| Frequency                                                     | 1852.4    | 1880  | 1907.6 |            |          |
| RMC 12.2K                                                     | 23.57     | 23.77 | 23.76  | 24.53      | 0.2838   |
| HSDPA Subtest-1                                               | 22.64     | 22.83 | 22.83  |            |          |
| HSDPA Subtest-2                                               | 22.65     | 22.81 | 22.83  |            |          |
| HSDPA Subtest-3                                               | 22.16     | 22.30 | 22.30  |            |          |
| HSDPA Subtest-4                                               | 22.14     | 22.29 | 22.34  |            |          |
| HSUPA Subtest-1                                               | 22.64     | 22.79 | 22.84  |            |          |
| HSUPA Subtest-2                                               | 20.58     | 20.84 | 20.80  |            |          |
| HSUPA Subtest-3                                               | 21.58     | 21.79 | 21.78  |            |          |
| HSUPA Subtest-4                                               | 20.61     | 20.81 | 20.84  |            |          |
| HSUPA Subtest-5                                               | 22.60     | 22.80 | 22.80  |            |          |
| Limit                                                         | EIRP < 2W |       |        | Result     | Pass     |

| WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 1.26 dB) |           |        |        |            |          |
|---------------------------------------------------------------|-----------|--------|--------|------------|----------|
| Channel                                                       | 1312      | 1413   | 1513   | EIRP (dBm) | EIRP (W) |
| Frequency                                                     | 1712.4    | 1732.6 | 1752.6 |            |          |
| RMC 12.2K                                                     | 23.74     | 23.80  | 23.74  | 25.06      | 0.3206   |
| HSDPA Subtest-1                                               | 22.74     | 22.80  | 22.76  |            |          |
| HSDPA Subtest-2                                               | 22.70     | 22.80  | 22.74  |            |          |
| HSDPA Subtest-3                                               | 22.22     | 22.31  | 22.27  |            |          |
| HSDPA Subtest-4                                               | 22.20     | 22.28  | 22.24  |            |          |
| HSUPA Subtest-1                                               | 22.71     | 22.78  | 22.74  |            |          |
| HSUPA Subtest-2                                               | 20.72     | 20.79  | 20.77  |            |          |
| HSUPA Subtest-3                                               | 21.74     | 21.80  | 21.70  |            |          |
| HSUPA Subtest-4                                               | 20.76     | 20.79  | 20.79  |            |          |
| HSUPA Subtest-5                                               | 22.70     | 22.80  | 22.70  |            |          |
| Limit                                                         | EIRP < 1W |        |        | Result     | Pass     |



## Appendix B. Test Results of Radiated Test

### B1. Summary of each worse mode

**<Sample 2>**

| Mode | Part     | Band     | Ch | Freq (MHz) | Level (dBm) | Det | Ant Factor (dB) | AmplCbl (dB) | Filter (dB) | EIRPCF (dB) | Reading (dBuV) | Limit (dBm) | Margin (dB) | Pol | Ant  |
|------|----------|----------|----|------------|-------------|-----|-----------------|--------------|-------------|-------------|----------------|-------------|-------------|-----|------|
| 1    | Part 22H | WCDMA B5 | H  | 3386       | -54.66      | RMS | 29.53           | -20.58       | 0.26        | -95.23      | 31.36          | -13.00      | -41.66      | H   | Main |
| 2    | Part 24E | WCDMA B2 | M  | 7520       | -44.60      | RMS | 36.12           | -16.84       | 0.52        | -95.23      | 30.83          | -13.00      | -31.60      | V   | Main |

**<Sample 1>**

| Mode | Part     | Band     | Ch | Freq (MHz) | Level (dBm) | Det | Ant Factor (dB) | AmplCbl (dB) | Filter (dB) | EIRPCF (dB) | Reading (dBuV) | Limit (dBm) | Margin (dB) | Pol | Ant  |
|------|----------|----------|----|------------|-------------|-----|-----------------|--------------|-------------|-------------|----------------|-------------|-------------|-----|------|
| 3    | Part 27L | WCDMA B4 | H  | 7010       | -45.00      | RMS | 35.84           | -17.15       | 0.48        | -95.23      | 31.06          | -13.00      | -32.00      | V   | Main |

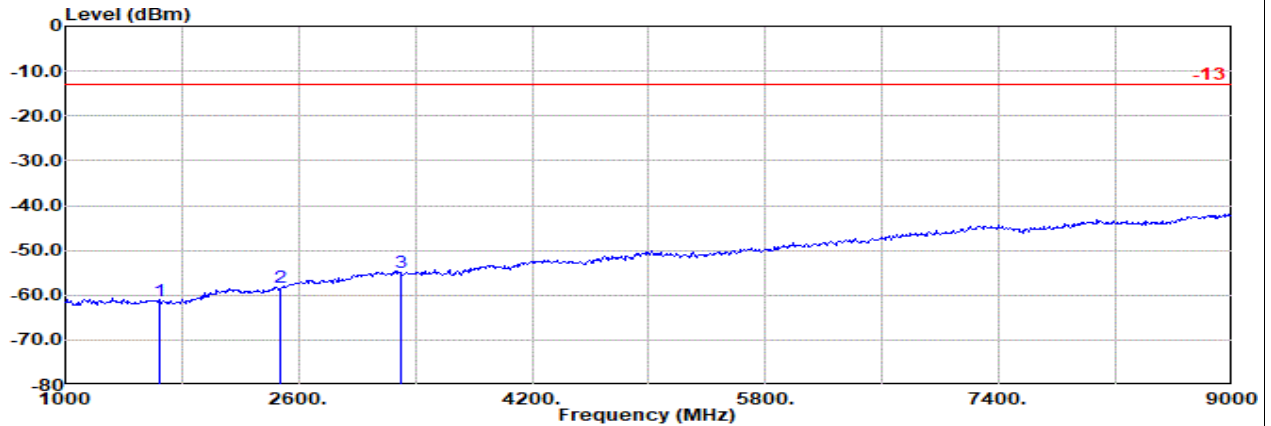


## Main

Part 22H Mode 1

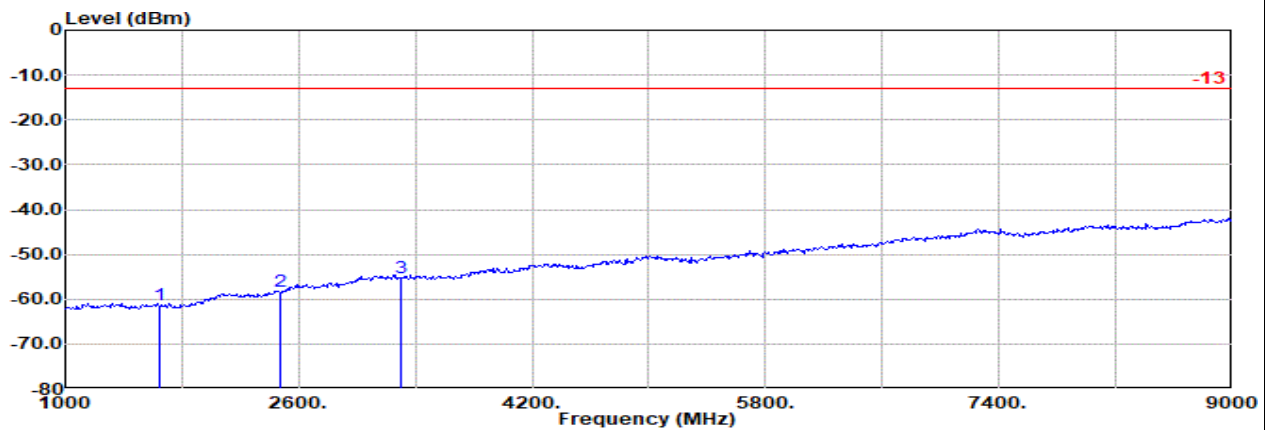
WCDMA B5 Ch4132

L



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Horizontal  
: WCDMA B5 Ch4132

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1652.00 | -61.32 | RMS      | 25.00      | -23.94 | 0.52   | -95.23 | 32.33    | -13.00 | -48.32 | Horizontal |
| 2 | 2479.00 | -58.13 | RMS      | 27.69      | -22.03 | 0.33   | -95.23 | 31.11    | -13.00 | -45.13 | Horizontal |
| 3 | 3305.00 | -54.95 | RMS      | 29.60      | -20.71 | 0.26   | -95.23 | 31.13    | -13.00 | -41.95 | Horizontal |



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Vertical  
: WCDMA B5 Ch4132

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1652.00 | -61.43 | RMS      | 25.00      | -23.94 | 0.52   | -95.23 | 32.22    | -13.00 | -48.43 | Vertical |
| 2 | 2479.00 | -58.24 | RMS      | 27.69      | -22.03 | 0.33   | -95.23 | 31.00    | -13.00 | -45.24 | Vertical |
| 3 | 3305.00 | -55.10 | RMS      | 29.60      | -20.71 | 0.26   | -95.23 | 30.98    | -13.00 | -42.10 | Vertical |

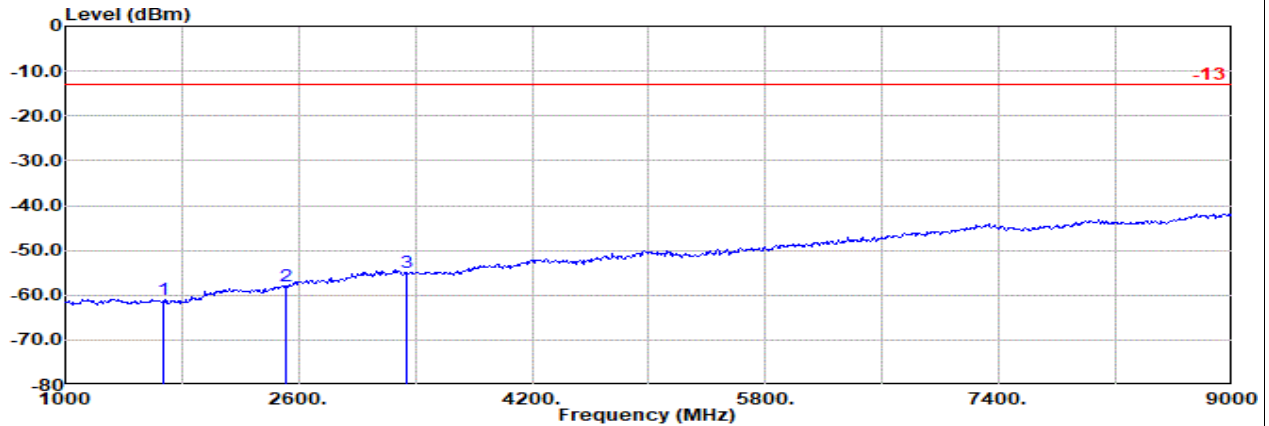


## Main

Part 22H Mode 1

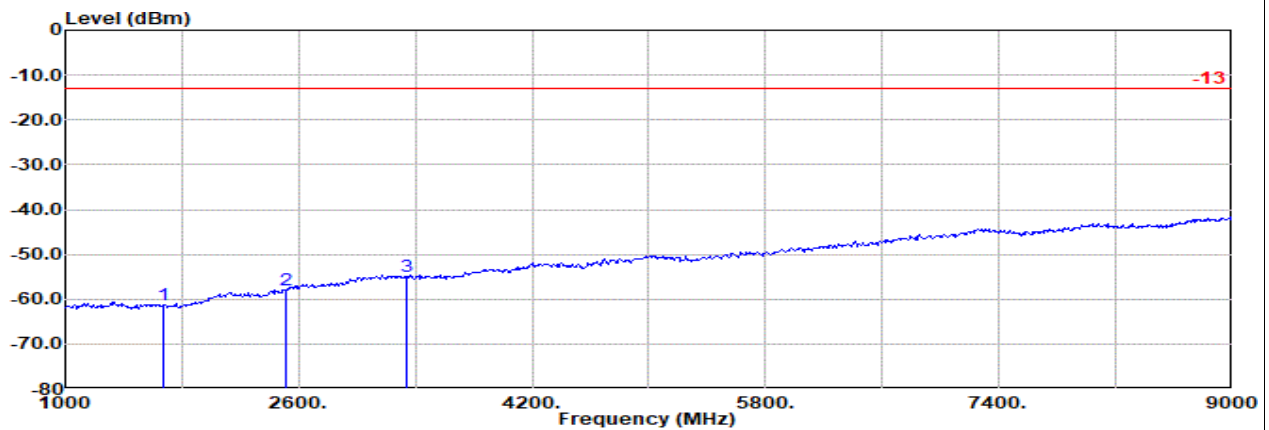
WCDMA B5 Ch4182

M



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Horizontal  
: WCDMA B5 Ch4182

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1672.00 | -61.06 | RMS      | 25.10      | -23.88 | 0.51   | -95.23 | 32.44    | -13.00 | -48.06 | Horizontal |
| 2 | 2509.00 | -57.94 | RMS      | 27.70      | -21.98 | 0.33   | -95.23 | 31.24    | -13.00 | -44.94 | Horizontal |
| 3 | 3345.00 | -54.84 | RMS      | 29.60      | -20.64 | 0.26   | -95.23 | 31.17    | -13.00 | -41.84 | Horizontal |



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Vertical  
: WCDMA B5 Ch4182

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1672.00 | -61.23 | RMS      | 25.10      | -23.88 | 0.51   | -95.23 | 32.27    | -13.00 | -48.23 | Vertical |
| 2 | 2509.00 | -57.83 | RMS      | 27.70      | -21.98 | 0.33   | -95.23 | 31.35    | -13.00 | -44.83 | Vertical |
| 3 | 3345.00 | -54.93 | RMS      | 29.60      | -20.64 | 0.26   | -95.23 | 31.08    | -13.00 | -41.93 | Vertical |

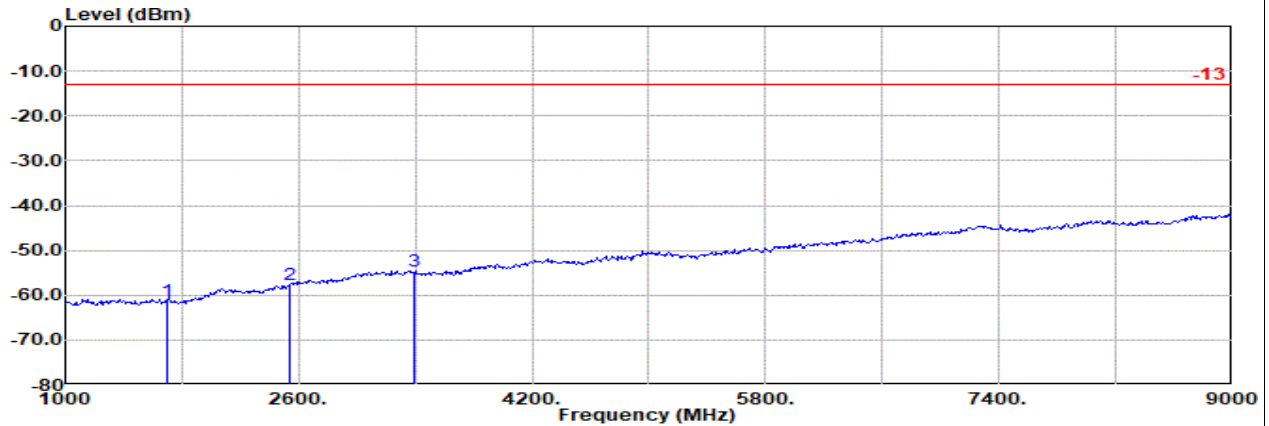


## Main

Part 22H Mode 1

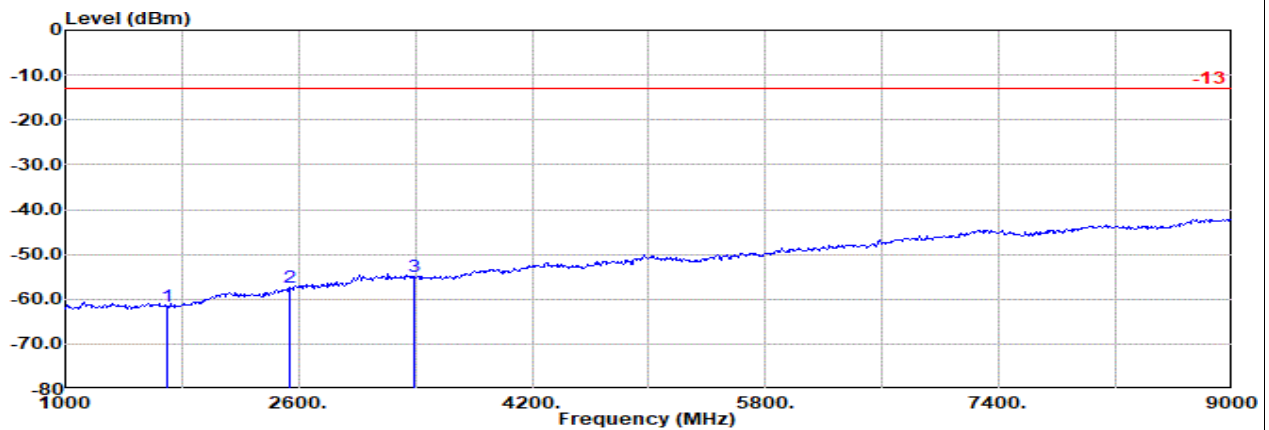
WCDMA B5 Ch4233

H



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Horizontal  
: WCDMA B5 Ch4233

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1693.00 | -61.28 | RMS      | 24.97      | -23.82 | 0.51   | -95.23 | 32.29    | -13.00 | -48.28 | Horizontal |
| 2 | 2539.00 | -57.64 | RMS      | 27.99      | -21.93 | 0.33   | -95.23 | 31.20    | -13.00 | -44.64 | Horizontal |
| 3 | 3386.00 | -54.66 | RMS      | 29.53      | -20.58 | 0.26   | -95.23 | 31.36    | -13.00 | -41.66 | Horizontal |



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Vertical  
: WCDMA B5 Ch4233

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1693.00 | -61.52 | RMS      | 24.97      | -23.82 | 0.51   | -95.23 | 32.05    | -13.00 | -48.52 | Vertical |
| 2 | 2539.00 | -57.26 | RMS      | 27.99      | -21.93 | 0.33   | -95.23 | 31.58    | -13.00 | -44.26 | Vertical |
| 3 | 3386.00 | -54.95 | RMS      | 29.53      | -20.58 | 0.26   | -95.23 | 31.07    | -13.00 | -41.95 | Vertical |

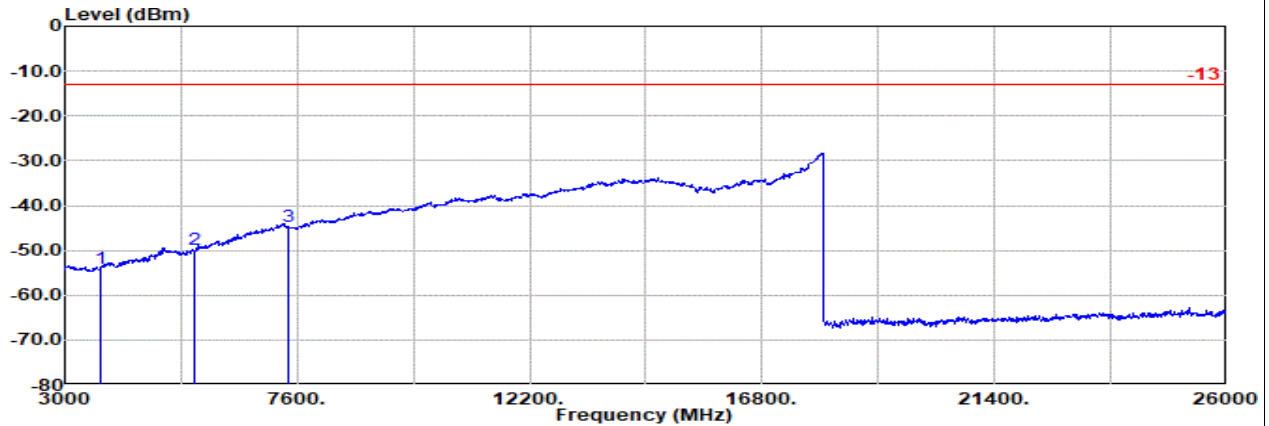


## Main

Part 24E Mode 2

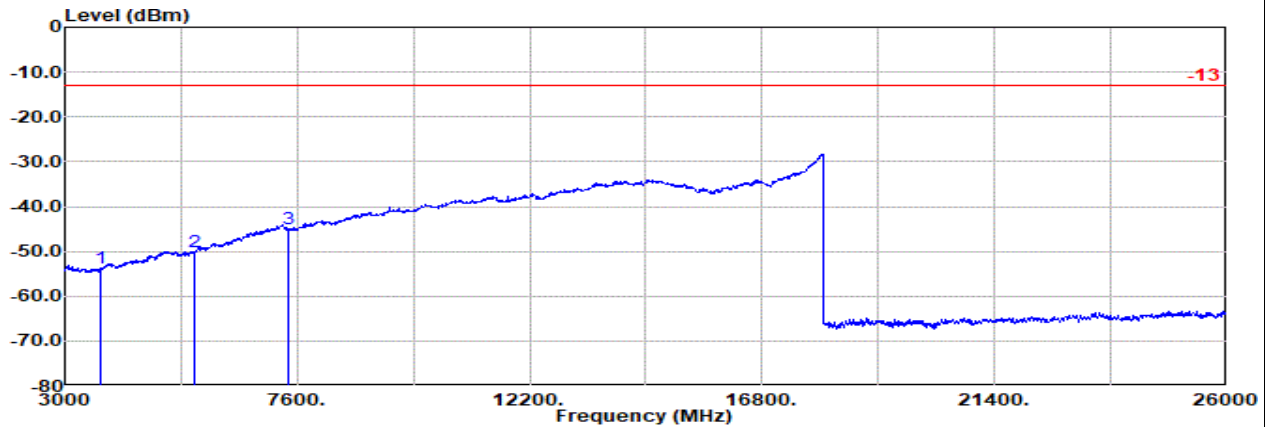
WCDMA B2 Ch9262

L



Site : 03CH16-HY  
Condition: -13 1m SHF\_1223\_240624 Horizontal  
: WCDMA B2 Ch9262

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        |        |        | Readin<br>g | Limit  | Margin | Pol        |
|---|-------------|--------------|----------|-------------------|--------|--------|--------|-------------|--------|--------|------------|
|   |             |              |          | Factor            | 1      | EIRPCF |        |             |        |        |            |
|   |             |              |          |                   |        |        |        |             |        |        |            |
| 1 | 3704.00     | -53.92       | RMS      | 29.62             | -20.14 | 0.90   | -95.23 | 0.00        | -13.00 | -40.92 | Horizontal |
| 2 | 5557.00     | -49.91       | RMS      | 32.80             | -17.76 | 0.44   | -95.23 | 29.84       | -13.00 | -36.91 | Horizontal |
| 3 | 7409.00     | -44.64       | RMS      | 36.38             | -16.90 | 0.50   | -95.23 | 30.61       | -13.00 | -31.64 | Horizontal |



Site : 03CH16-HY  
Condition: -13 1m SHF\_1223\_240624 Vertical  
: WCDMA B2 Ch9262

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        |        |        | Readin<br>g | Limit  | Margin | Pol      |
|---|-------------|--------------|----------|-------------------|--------|--------|--------|-------------|--------|--------|----------|
|   |             |              |          | Factor            | 1      | EIRPCF |        |             |        |        |          |
|   |             |              |          |                   |        |        |        |             |        |        |          |
| 1 | 3704.00     | -53.68       | RMS      | 29.62             | -20.14 | 0.90   | -95.23 | 31.17       | -13.00 | -40.68 | Vertical |
| 2 | 5557.00     | -50.26       | RMS      | 32.80             | -17.76 | 0.44   | -95.23 | 29.49       | -13.00 | -37.26 | Vertical |
| 3 | 7409.00     | -44.83       | RMS      | 36.38             | -16.90 | 0.50   | -95.23 | 30.42       | -13.00 | -31.83 | Vertical |

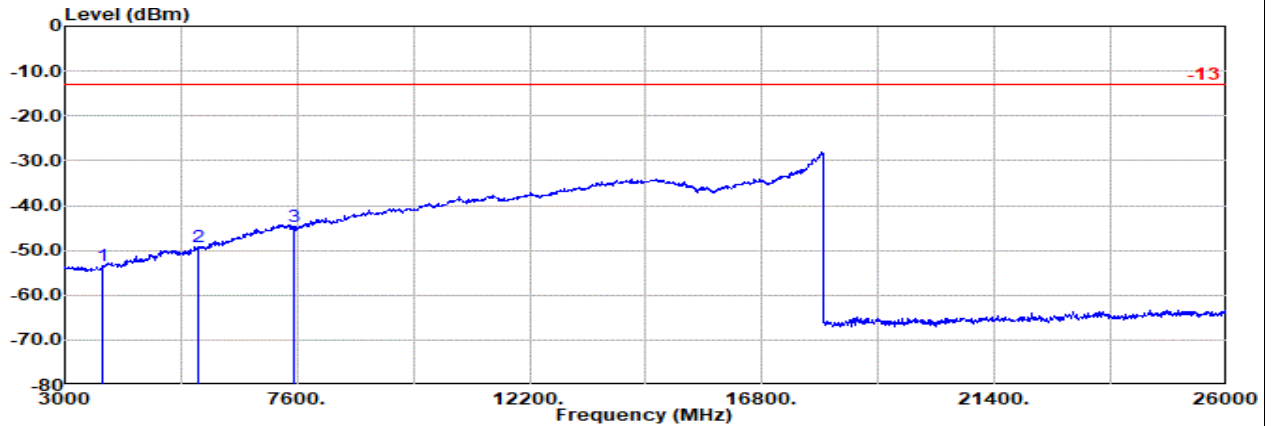


## Main

Part 24E Mode 2

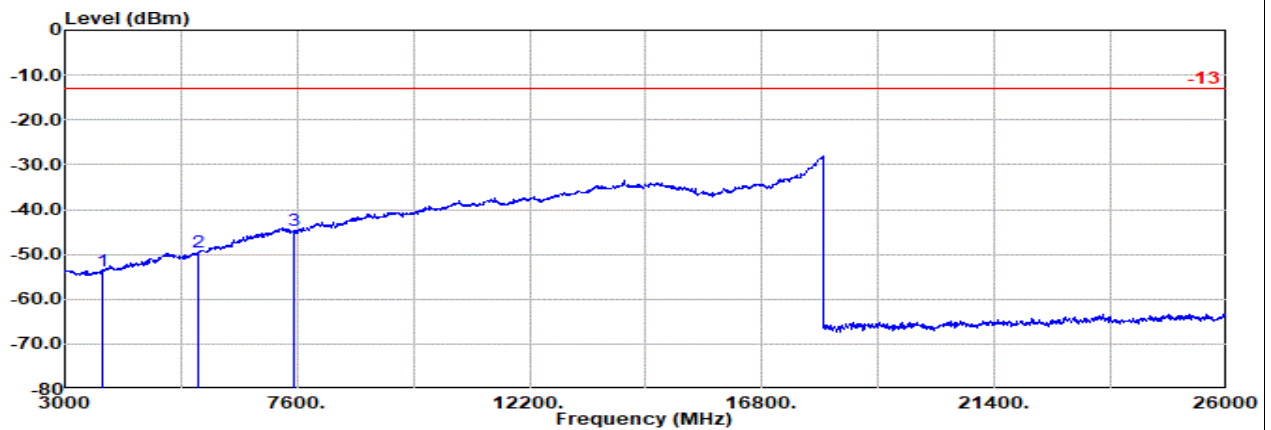
WCDMA B2 Ch9400

M



Site : 03CH16-HY  
Condition: -13 1m SHF\_1223\_240624 Horizontal  
: WCDMA B2 Ch9400

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 3760.00 | -53.53 | RMS      | 29.98      | -20.07 | 0.85     | -95.23 | 30.94    | -13.00 | -40.53 | Horizontal |
| 2 | 5640.00 | -49.29 | RMS      | 32.96      | -17.69 | 0.44     | -95.23 | 30.23    | -13.00 | -36.29 | Horizontal |
| 3 | 7520.00 | -44.75 | RMS      | 36.12      | -16.84 | 0.52     | -95.23 | 30.68    | -13.00 | -31.75 | Horizontal |



Site : 03CH16-HY  
Condition: -13 1m SHF\_1223\_240624 Vertical  
: WCDMA B2 Ch9400

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 3760.00 | -53.69 | RMS      | 29.98      | -20.07 | 0.85     | -95.23 | 30.78    | -13.00 | -40.69 | Vertical |
| 2 | 5640.00 | -49.43 | RMS      | 32.96      | -17.69 | 0.44     | -95.23 | 30.09    | -13.00 | -36.43 | Vertical |
| 3 | 7520.00 | -44.60 | RMS      | 36.12      | -16.84 | 0.52     | -95.23 | 30.83    | -13.00 | -31.60 | Vertical |

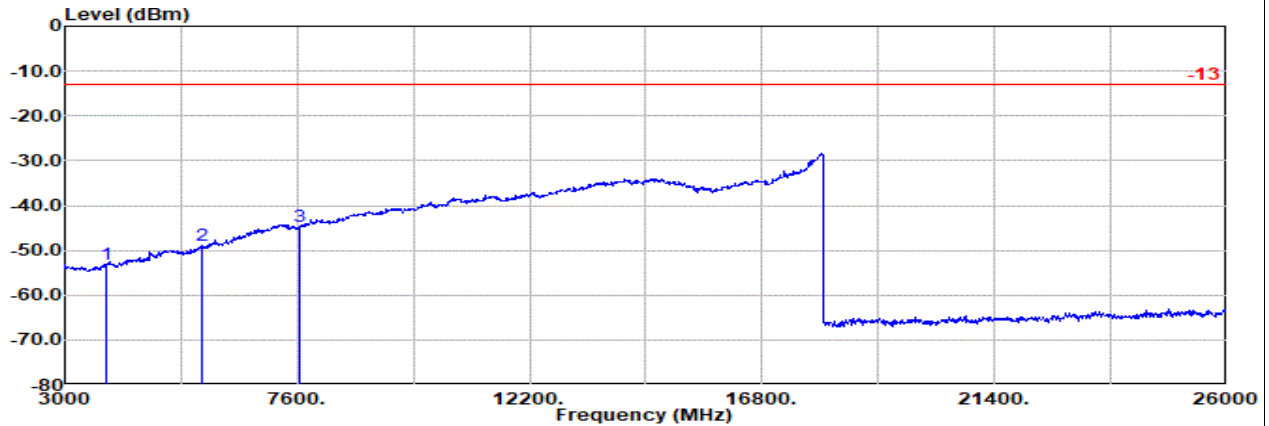


## Main

Part 24E Mode 2

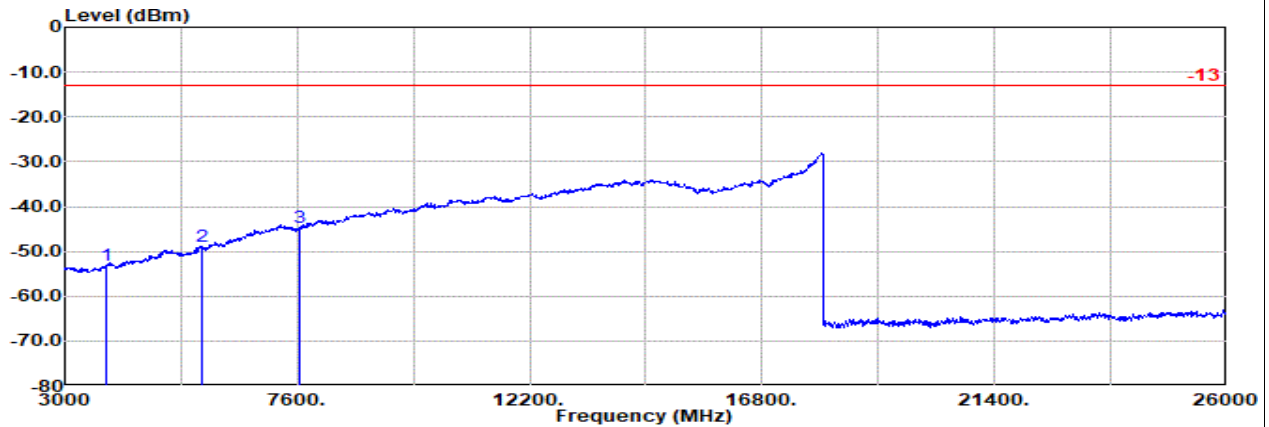
WCDMA B2 Ch9538

H



Site : 03CH16-HY  
Condition: -13 1m SHF\_1223\_240624 Horizontal  
: WCDMA B2 Ch9538

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|------------|
|   |         |        |          | Factor            | 1      | EIRPCF | g      |        |        |        |            |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 3815.00 | -53.05 | RMS      | 30.42             | -20.00 | 0.80   | -95.23 | 30.96  | -13.00 | -40.05 | Horizontal |
| 2 | 5722.00 | -49.03 | RMS      | 33.44             | -17.62 | 0.38   | -95.23 | 30.00  | -13.00 | -36.03 | Horizontal |
| 3 | 7630.00 | -44.72 | RMS      | 36.16             | -16.77 | 0.52   | -95.23 | 30.60  | -13.00 | -31.72 | Horizontal |



Site : 03CH16-HY  
Condition: -13 1m SHF\_1223\_240624 Vertical  
: WCDMA B2 Ch9538

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|----------|
|   |         |        |          | Factor            | 1      | EIRPCF | g      |        |        |        |          |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 3815.00 | -53.06 | RMS      | 30.42             | -20.00 | 0.80   | -95.23 | 30.95  | -13.00 | -40.06 | Vertical |
| 2 | 5722.00 | -48.93 | RMS      | 33.44             | -17.62 | 0.38   | -95.23 | 30.10  | -13.00 | -35.93 | Vertical |
| 3 | 7630.00 | -44.67 | RMS      | 36.16             | -16.77 | 0.52   | -95.23 | 30.65  | -13.00 | -31.67 | Vertical |

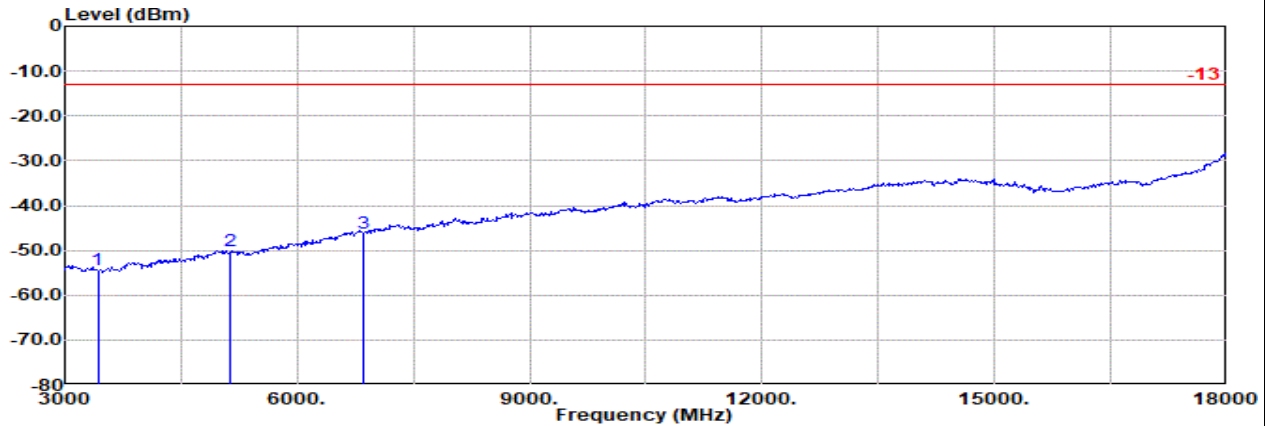


## Main

Part 27L Mode 3

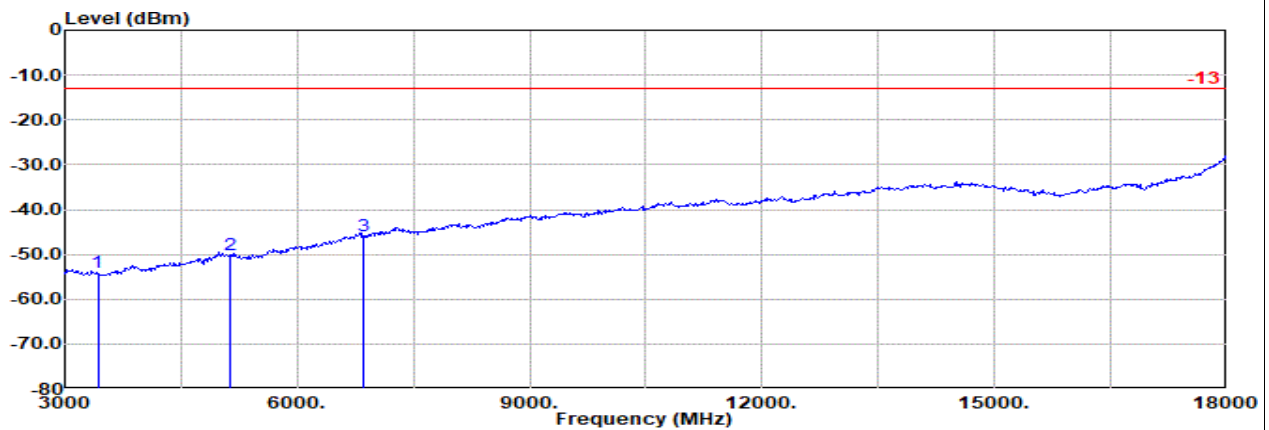
WCDMA B4 Ch1312

L



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Horizontal  
: WCDMA B4 Ch1312

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb 1 | Filter | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|----------|--------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB/m     | dB     | dB     | dB       | dBuV   | dBm    | dB         |
| 1 | 3425.00 | -54.23 | RMS      | 29.45      | -20.52   | 0.95   | -95.23 | 31.12    | -13.00 | -41.23 | Horizontal |
| 2 | 5137.00 | -50.10 | RMS      | 32.97      | -18.22   | 0.39   | -95.23 | 29.99    | -13.00 | -37.10 | Horizontal |
| 3 | 6850.00 | -46.16 | RMS      | 35.70      | -17.21   | 0.58   | -95.23 | 30.00    | -13.00 | -33.16 | Horizontal |



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Vertical  
: WCDMA B4 Ch1312

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb 1 | Filter | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|----------|--------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB/m     | dB     | dB     | dB       | dBuV   | dBm    | dB       |
| 1 | 3425.00 | -54.07 | RMS      | 29.45      | -20.52   | 0.95   | -95.23 | 31.28    | -13.00 | -41.07 | Vertical |
| 2 | 5137.00 | -50.16 | RMS      | 32.97      | -18.22   | 0.39   | -95.23 | 29.93    | -13.00 | -37.16 | Vertical |
| 3 | 6850.00 | -45.80 | RMS      | 35.70      | -17.21   | 0.58   | -95.23 | 30.36    | -13.00 | -32.80 | Vertical |

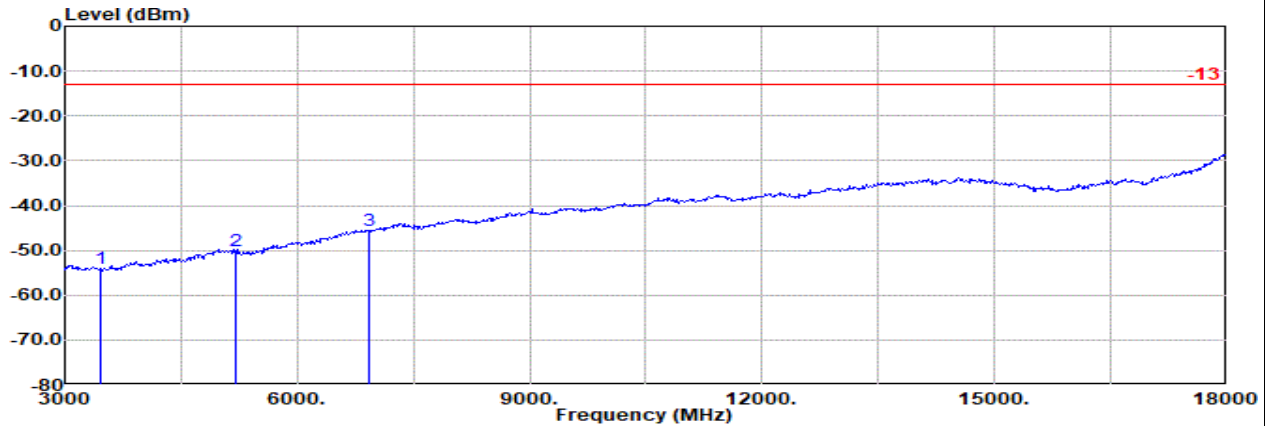


## Main

Part 27L Mode 3

WCDMA B4 Ch1413

M

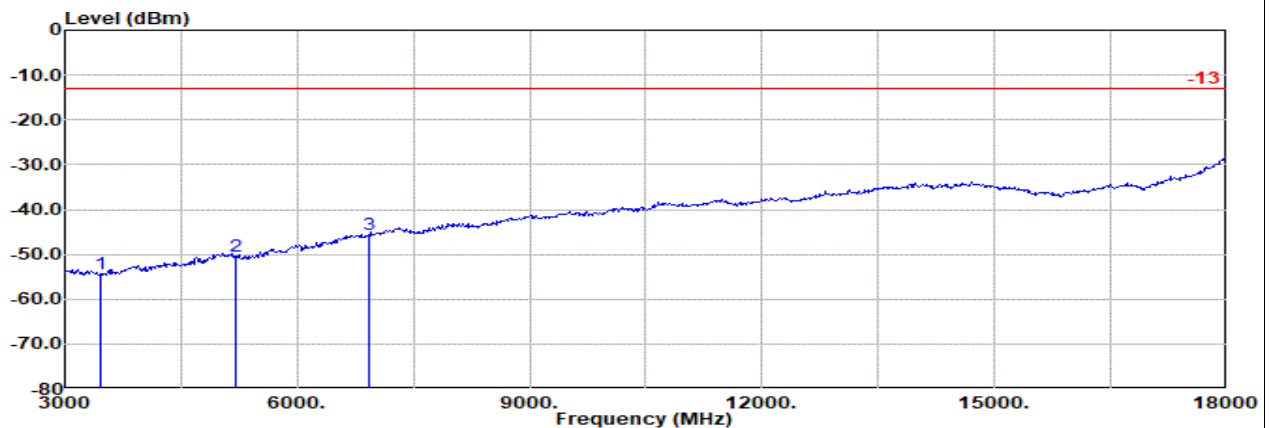


Site : 03CH16-HY

Condition: -13 3m 9120D-1522\_240328 Horizontal

: WCDMA B4 Ch1413

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 3465.00 | -54.14 | RMS      | 29.40      | -20.46 | 0.96   | -95.23 | 31.19  | -13.00 | -41.14 | Horizontal |
| 2 | 5198.00 | -50.22 | RMS      | 33.00      | -18.17 | 0.32   | -95.23 | 29.86  | -13.00 | -37.22 | Horizontal |
| 3 | 6930.00 | -45.59 | RMS      | 35.80      | -17.18 | 0.53   | -95.23 | 30.49  | -13.00 | -32.59 | Horizontal |



Site : 03CH16-HY

Condition: -13 3m 9120D-1522\_240328 Vertical

: WCDMA B4 Ch1413

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 3465.00 | -54.25 | RMS      | 29.40      | -20.46 | 0.96   | -95.23 | 31.08  | -13.00 | -41.25 | Vertical |
| 2 | 5198.00 | -50.41 | RMS      | 33.00      | -18.17 | 0.32   | -95.23 | 29.67  | -13.00 | -37.41 | Vertical |
| 3 | 6930.00 | -45.50 | RMS      | 35.80      | -17.18 | 0.53   | -95.23 | 30.58  | -13.00 | -32.50 | Vertical |

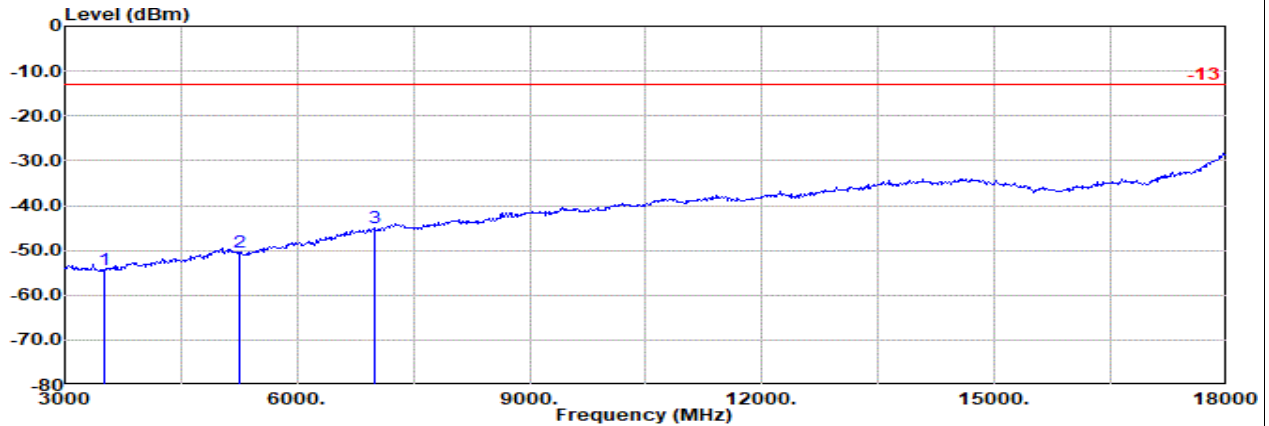


## Main

Part 27L Mode 3

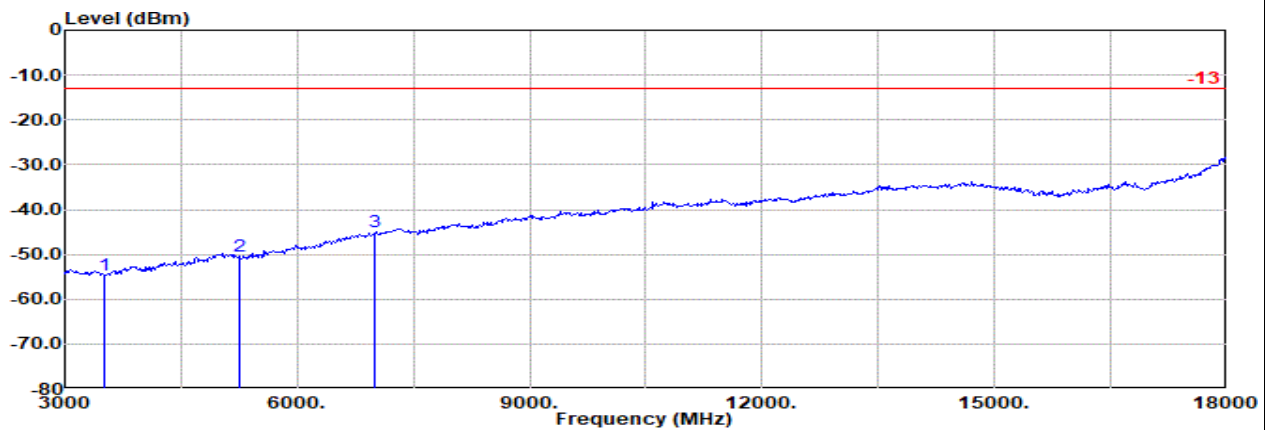
WCDMA B4 Ch1513

H



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Horizontal  
: WCDMA B4 Ch1513

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 3505.00 | -54.47 | RMS      | 29.41      | -20.41 | 0.97   | -95.23 | 30.79  | -13.00 | -41.47 | Horizontal |
| 2 | 5258.00 | -50.53 | RMS      | 32.88      | -18.10 | 0.32   | -95.23 | 29.60  | -13.00 | -37.53 | Horizontal |
| 3 | 7010.00 | -45.05 | RMS      | 35.84      | -17.15 | 0.48   | -95.23 | 31.01  | -13.00 | -32.05 | Horizontal |



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Vertical  
: WCDMA B4 Ch1513

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 3505.00 | -54.51 | RMS      | 29.41      | -20.41 | 0.97   | -95.23 | 30.75  | -13.00 | -41.51 | Vertical |
| 2 | 5258.00 | -50.40 | RMS      | 32.88      | -18.10 | 0.32   | -95.23 | 29.73  | -13.00 | -37.40 | Vertical |
| 3 | 7010.00 | -45.00 | RMS      | 35.84      | -17.15 | 0.48   | -95.23 | 31.06  | -13.00 | -32.00 | Vertical |

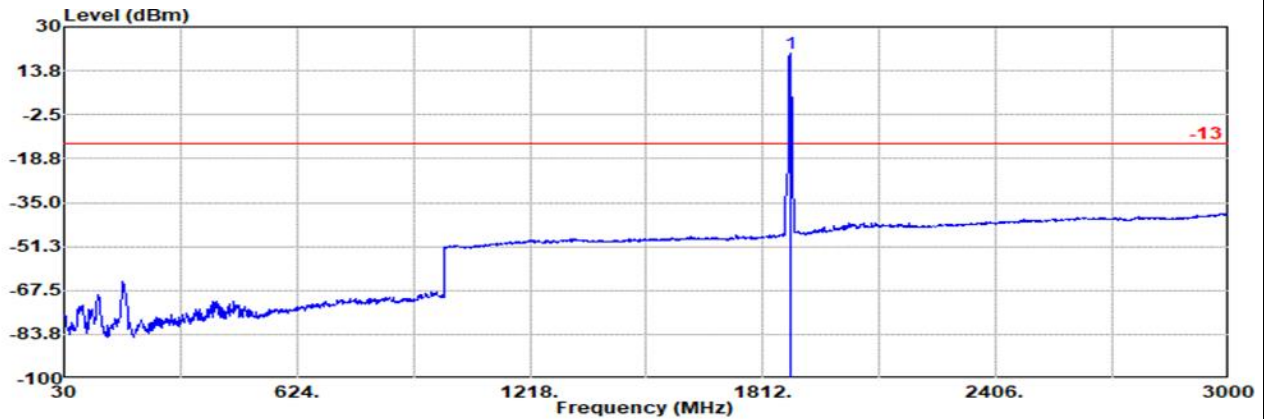


## Main

Part 24E Mode 2

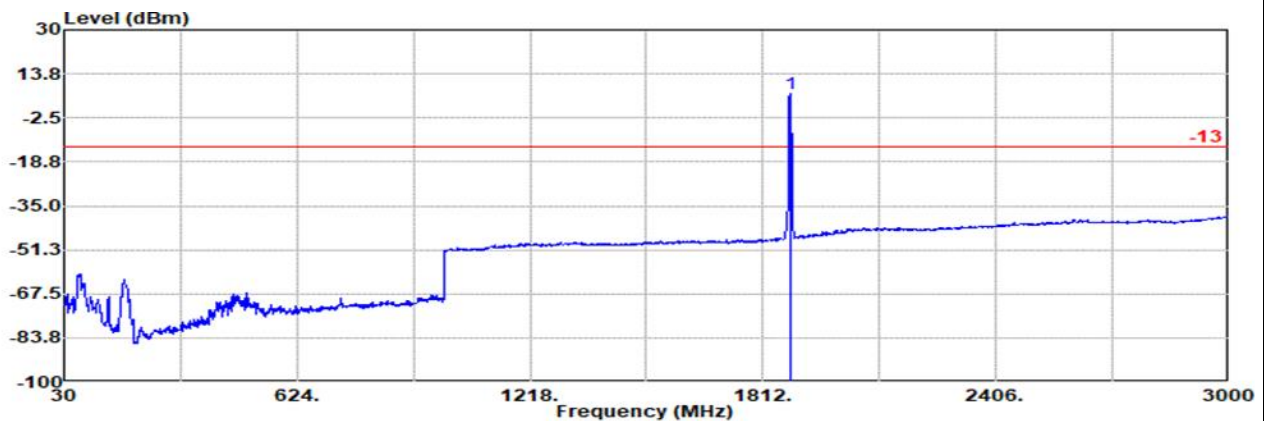
WCDMA B2 Ch9400

M



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Horizontal  
: WCDMA B2 Ch9400  
: #1 is fundamental signal which can be ignored.

| Freq | Level   | Detector  | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|------|---------|-----------|------------|--------|--------|--------|--------|--------|--------|------------|
| MHz  | dBm     |           |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1    | 1880.00 | 20.29 RMS | 25.42      | 6.83   | 0.00   | -95.23 | 83.27  | -13.00 | 33.29  | Horizontal |



Site : 03CH16-HY  
Condition: -13 3m 9120D-1522\_240328 Vertical  
: WCDMA B2 Ch9400  
: #1 is fundamental signal which can be ignored.

| Freq | Level   | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|------|---------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
| MHz  | dBm     |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1    | 1880.00 | 6.68 RMS | 25.40      | 6.82   | 0.00   | -95.23 | 69.69  | -13.00 | 19.68  | Vertical |

Remark: #1 is fundamental signal which can be ignored.